

# CESSNOCK CITY COUNCIL

## LOCAL ROAD RENEWAL

### STAGE 1 & STAGE 2


## SANDY CREEK ROAD, QUORROBOLONG

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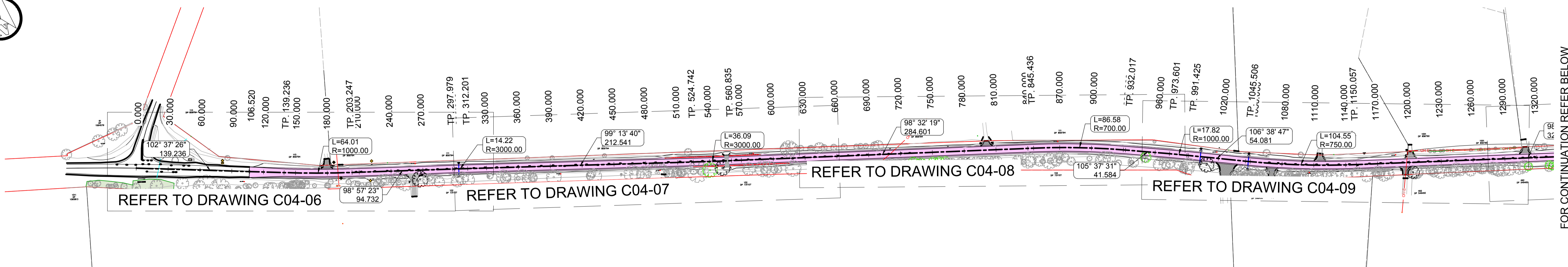
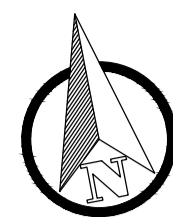
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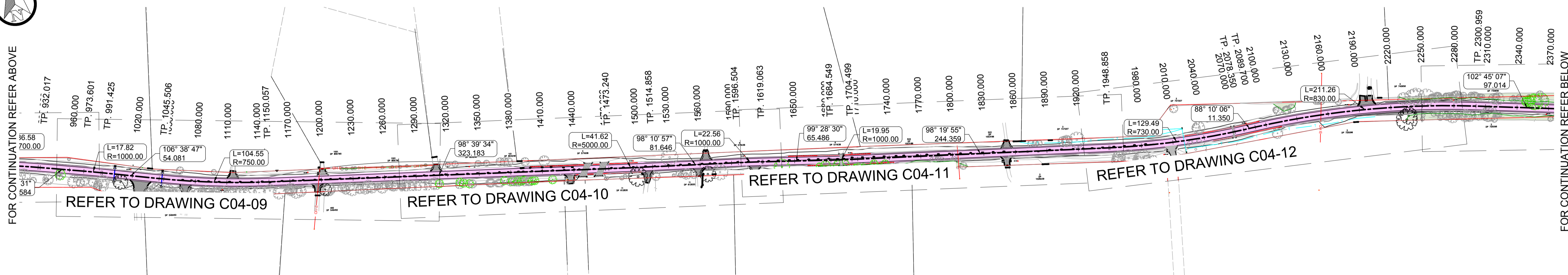
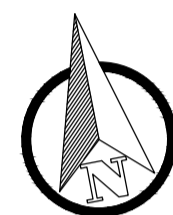
# CONSTRUCTION

 AL Civil Design 5 Yew Street GILLIESTON HEIGHTS NSW 2321 0466 253 917	REVISION NUMBER	DATE
	1	11.08.2023
	DRAWING NUMBER	C01-01
	PROJECT NUMBER	AL22077

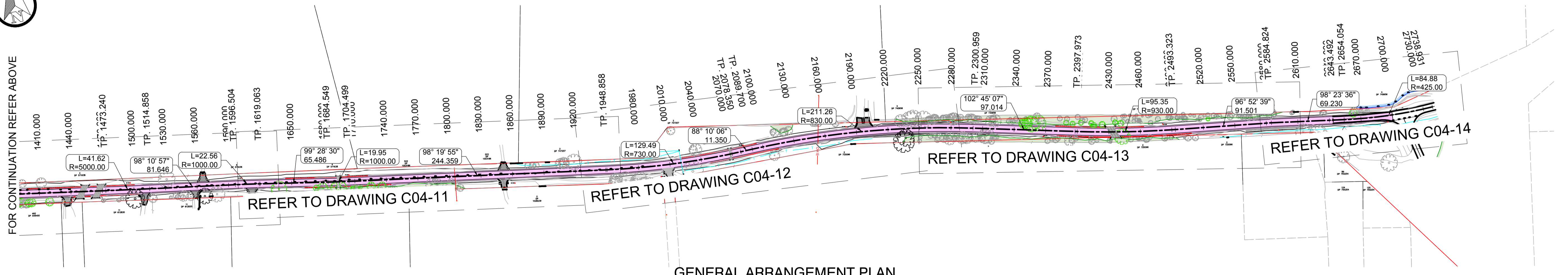
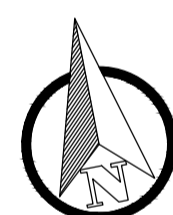




GENERAL ARRANGEMENT PLAN  
SCALE 1:2000



GENERAL ARRANGEMENT PLAN  
SCALE 1:2000



GENERAL ARRANGEMENT PLAN  
SCALE 1:2000



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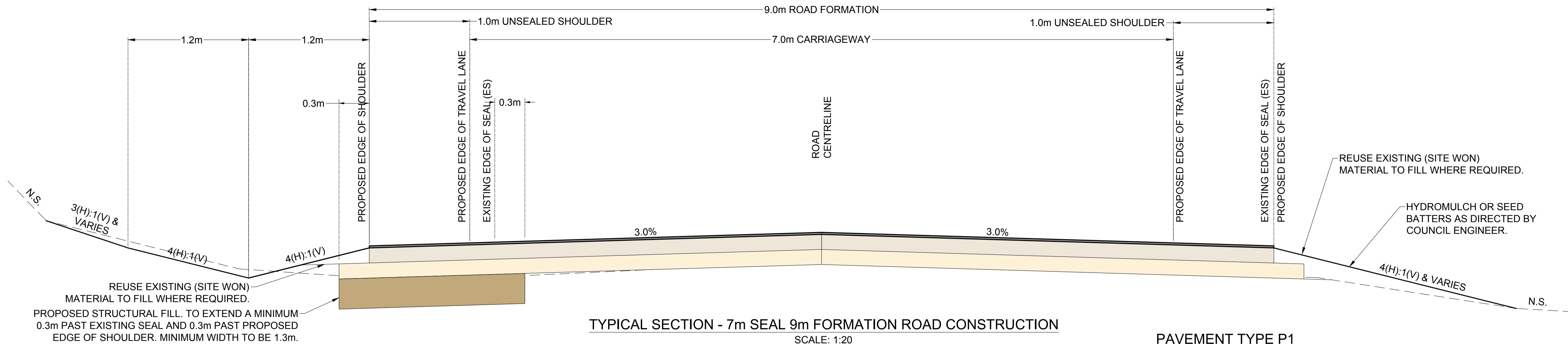
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 6. Any service line unless otherwise noted has been plotted from the records of relevant authorities where available. Prior to any demolition, excavation or construction on the site, the relevant authority should be contacted for possible location of further underground services and detailed locations of all service.

SURVEY:	DELFS LASCELLES
DESIGN:	M.M
DRAWN:	M.M
CHECKED:	M.M
DATE:	11.08.2023
APPROVED:	M.M

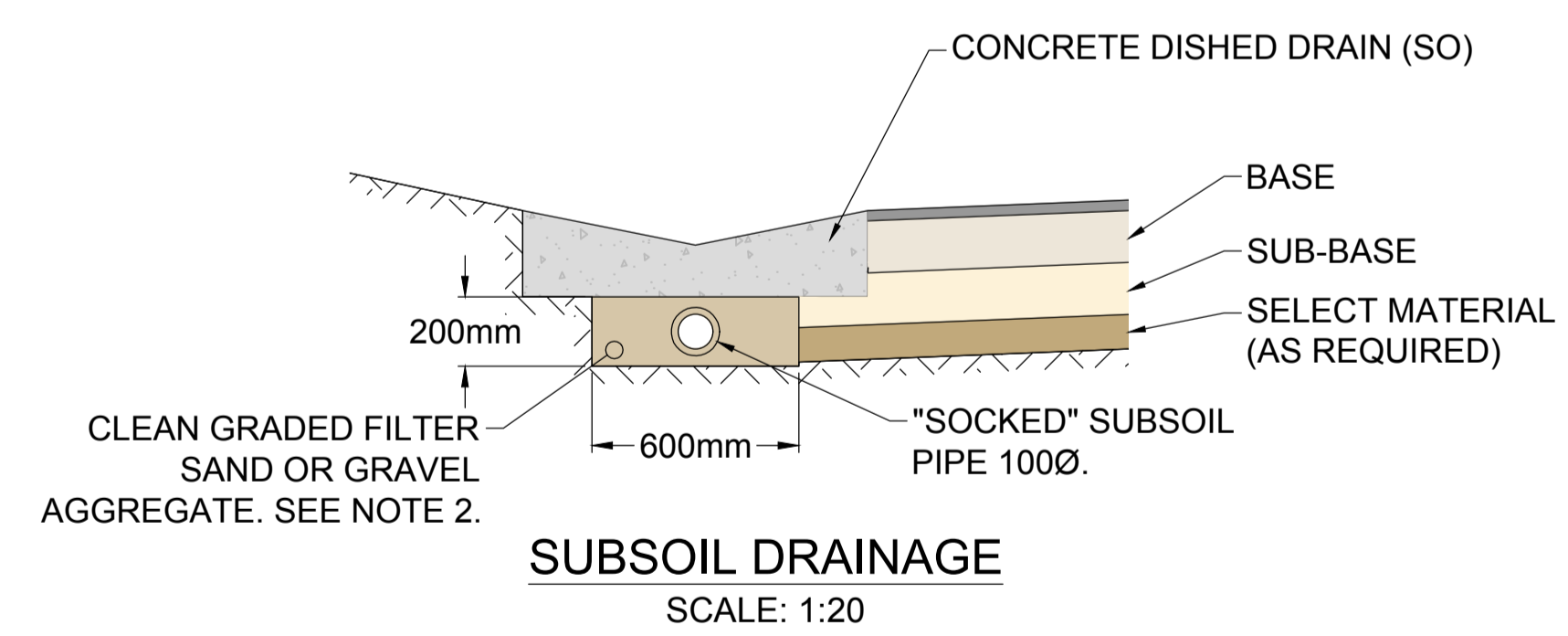
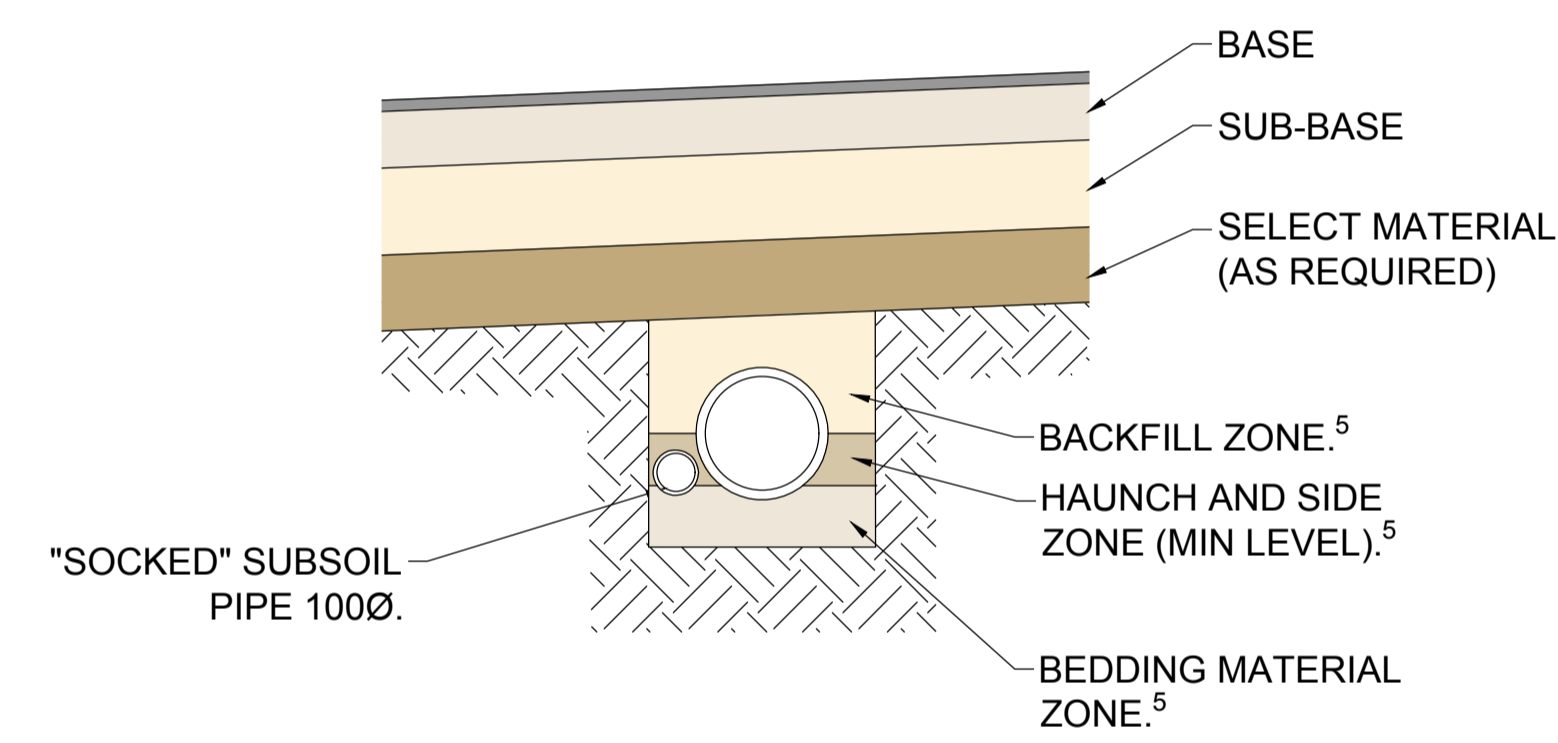
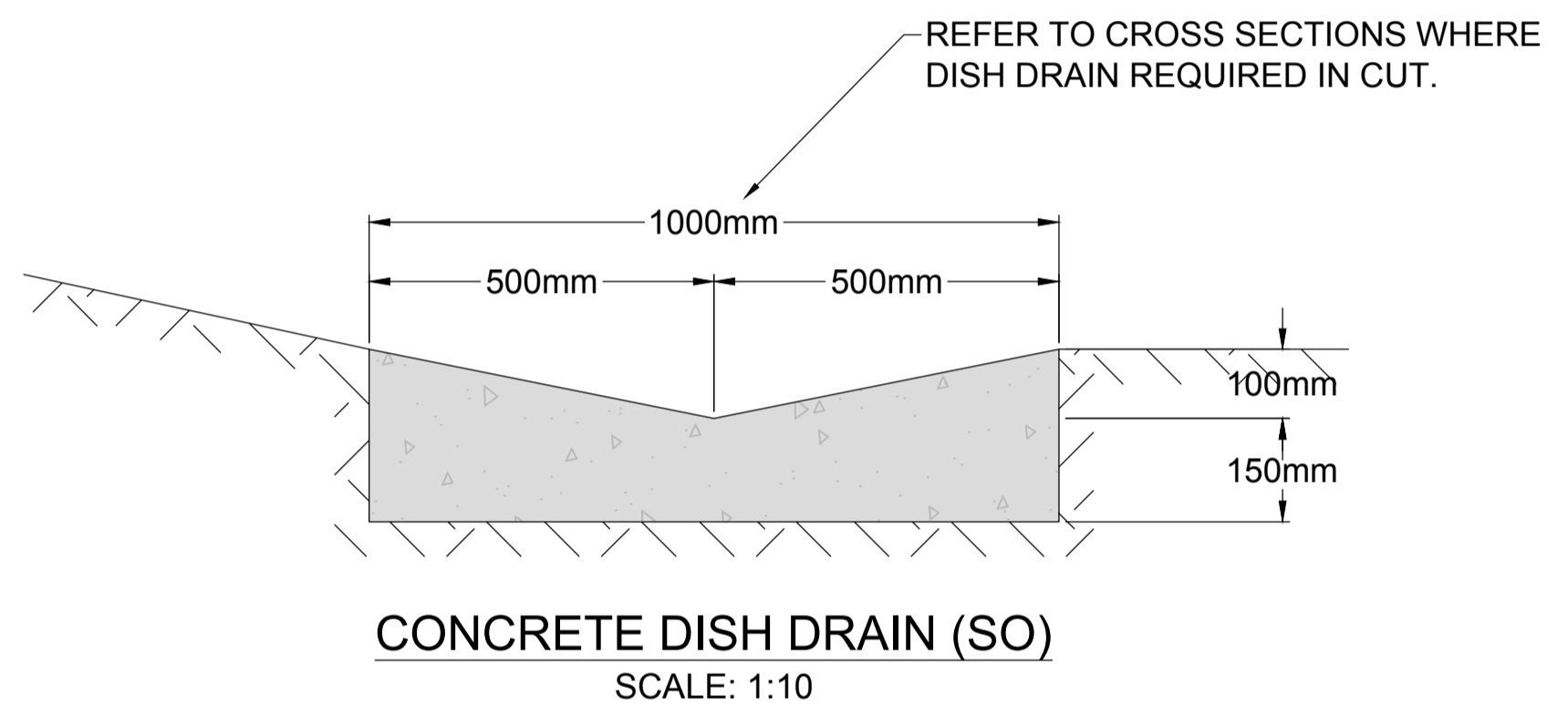
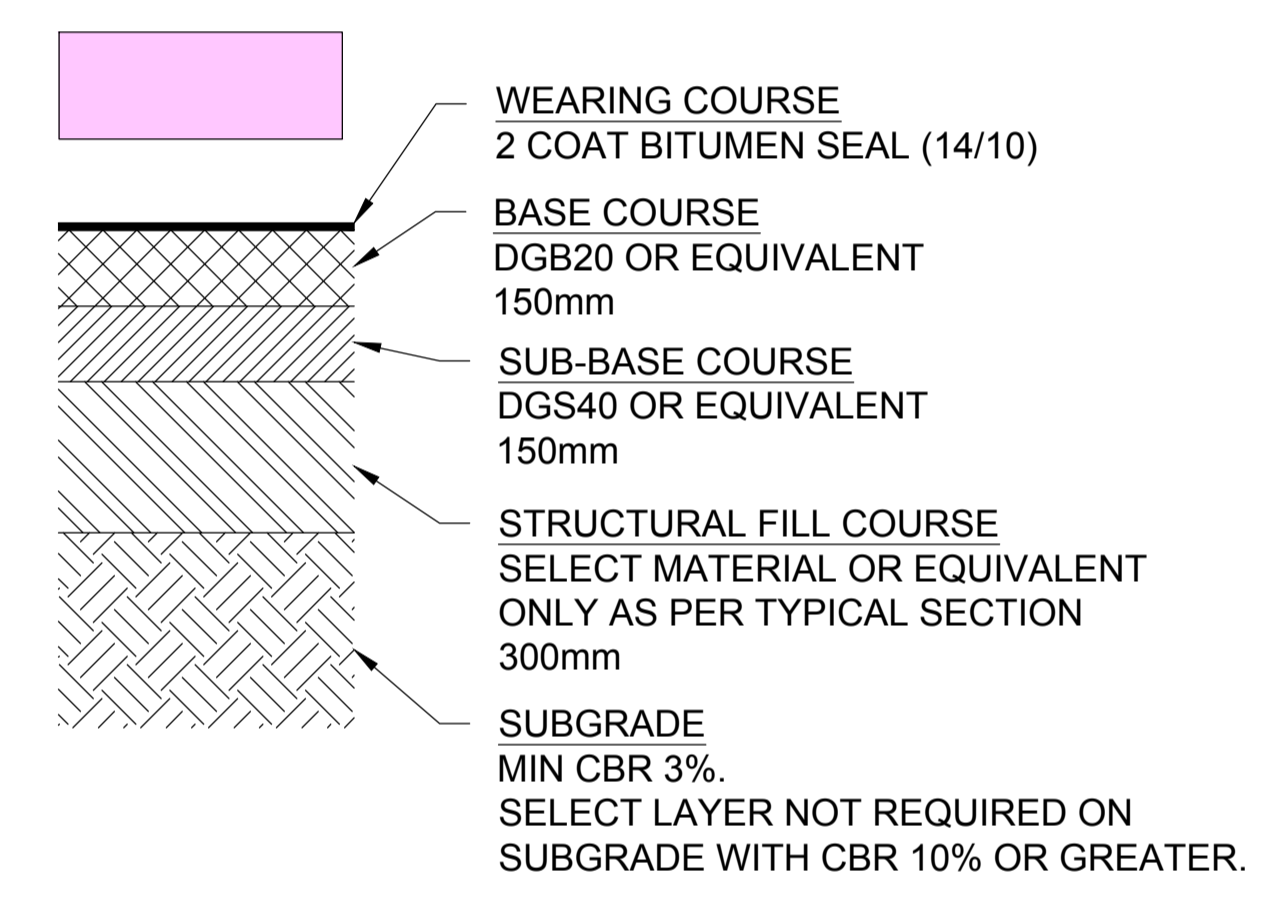
CLIENT	CESSNOCK CITY COUNCIL	
PLAN:	LONGITUDINAL SECTION	CROSS SECTION
1:2000 (A1)	HORIZ. 1:500	HORIZ. N/A
	VERT. 1:100	VERT. N/A

PROJECT	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWING TITLE	GENERAL ARRANGEMENT PLAN
SHEET 03 OF 116 SHEETS	

PROJECT No	AL22077	REVISION	1
DWG No	C02-03		
<b>CONSTRUCTION</b>			
 1:2000 (A1)			



**PAVEMENT TYPE P1  
FULL DEPTH PAVEMENT CONSTRUCTION**

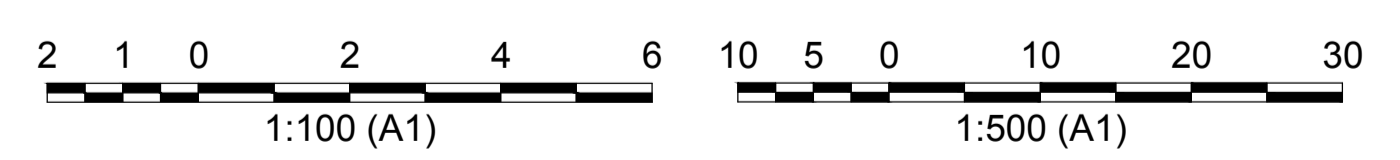


- SUBSOIL NOTES:**
1. TYPE, LOCATION AND EXTENT OF ADDITIONAL SUBSOIL DRAINAGE SHALL BE IN ACCORDANCE WITH A GEOTECHNICAL CONSULTANT'S ASSESSMENT.
  2. A NOMINAL SIZE AGGREGATE (10mm MAXIMUM) MAY BE SUBSTITUTED FOR THE FILTER SAND
  3. FLUSH POINTS SHALL BE PROVIDED AT UPSTREAM DEAD ENDS & CRESTS & AT MAXIMUM OF 60m CTRS.
  4. DEPTH MAY BE VARIED IN A ROCK SUBGRADE.
  5. SEE THE CONSTRUCTION SECTION OF THE MANUAL OF ENGINEERING STANDARDS FOR TRENCH MATERIAL SPECIFICATION. EACH ZONE MAY BE ONE HOMOGENEOUS APPROVED MATERIAL.
  6. SUBSOIL DRAINAGE FILTER DESIGN SHALL BE BASED ON THE DESIGN METHOD IN A.R.R.B. (AUSTRALIAN ROAD RESEARCH BOARD) PUBLICATION TITLED SUBSURFACE DRAINAGE OF ROAD STRUCTURES - REPORT No. 35.

- NOTES:**
- IN AREAS OF PROPOSED GRANULAR OVERLAY, THE FOLLOWING PREPARATION MEASURES ARE RECOMMENDED:
    - MILL EXISTING WEARING SURFACE TO EXPOSE EXISTING PAVEMENT GRAVELS;
    - PROOF ROLL THE EXPOSED SURFACE TO ASSESS MOISTURE CONTENT AND SOFT ZONES, WITH CAREFUL ATTENTION MADE IN AREAS OF EXISTING DAMAGE OR ELEVATED MAXIMUM DEFLECTIONS. IN AREAS PERFORMING POORLY, REMOVE AND REPLACE MATERIAL
    - IN AREAS PERFORMING ADEQUATELY, COMPACT THE STRIPPED SURFACE TO A MINIMUM DRY DENSITY RATIO OF 98% MODIFIED (AS 1289.5.2.1). THE COMPACTED EXISTING PAVEMENT MATERIALS SHOULD BE LEFT EXPOSED FOR A MINIMUM AMOUNT OF TIME PRIOR TO PLACEMENT OF PAVEMENT LAYERS TO MINIMISE EXPOSURE TO THE EFFECTS OF WEATHER.
  - IN ADDITION TO THE ABOVE, WHERE LESS THAN 100 MM OF GRANULAR OVERLAY IS REQUIRED, THE IMPORTED MATERIAL SHOULD BE TYNED TO A DEPTH OF 100 MM (INCORPORATING THE UNDERLYING MATERIAL) TO ENABLE THE TOP LAYER OF PAVEMENT MATERIAL TO BE ADEQUATELY MOISTURE CONDITIONED AND COMPACTED.

- WHERE NEW PAVEMENTS ARE TO BE CONSTRUCTED (I.E. PAVEMENT WIDENING), PAVEMENT SUBGRADE PREPARATION SHOULD BE CARRIED OUT IN GENERAL ACCORDANCE WITH THE FOLLOWING METHODOLOGY:
- STRIP EXISTING VEGETATION AND STOCKPILE FOR RE-USE IN LANDSCAPED AREAS;
  - WHERE REQUIRED, FURTHER EXCAVATE TO DESIGN SUBGRADE LEVEL;
  - IF BEDROCK IS ENCOUNTERED AT SUBGRADE LEVEL, THEN THE BEDROCK SHOULD BE TYNED TO 100 MM DEPTH TO REMOVE ANY BOULDERS AND TO HELP PROVIDE A UNIFORM SUBGRADE;
  - ROLL THE SUBGRADE / STRIPPED SURFACE WITH AT LEAST SIX PASSES OF A MINIMUM 8 TONNE DEADWEIGHT ROLLER, WITH A FINAL PROOF ROLLING PASS ACCOMPANIED BY CAREFUL VISUAL INSPECTION BY AN EXPERIENCED GEOTECHNICAL CONSULTANT TO ALLOW DETECTION AND TREATMENT OF ANY SOFT OR COMPRESSIBLE ZONES. UNSUITABLE MATERIALS SHOULD BE OVER-EXCAVATED AND EITHER REPLACED WITH SUITABLE GRANULAR FILL OR BLENDED WITH BETTER MATERIAL AND REPLACED UNDER APPROPRIATE COMPACTION;
  - MOISTURE RECONDITION THE UPPER 250 MM OF THE EXPOSED SUBGRADE (STRIPPED SURFACE) AND COMPACT IT TO AT LEAST 100% STANDARD COMPACTION;
  - WHERE REQUIRED, PLACE ADDITIONAL GRANULAR FILL IN NEAR HORIZONTAL LAYERS NO THICKER THAN 300 MM (LOOSE THICKNESS) AND COMPACT TO THE DENSITY RATIO INDICATED ABOVE. MOISTURE CONTENTS OF THE SUBGRADE AND ADDITIONAL FILL SHOULD BE MAINTAINED WITHIN 3% DRY TO 1% WET OF THE OPTIMUM MOISTURE CONTENT; AND
  - PROTECT THE AREA AFTER SUBGRADE PREPARATION TO MAINTAIN MOISTURE CONTENT CLOSE TO THE EQUILIBRIUM AS FAR AS PRACTICABLE. THE PLACEMENT OF THE SUBBASE GRAVEL WOULD NORMALLY PROVIDE ADEQUATE PROTECTION.

EARTHWORKS INSPECTION AND TESTING SHOULD BE CARRIED OUT TO LEVEL 2 CONDITIONS, AS DEFINED IN AS 3798 (2007). COUNCIL ALSO REQUIRES THAT THE SUBGRADE AND EACH PAVEMENT ARE TO BE PRESENTED FOR INSPECTION AND TESTING PRIOR TO PLACEMENT OF THE NEXT LAYER.



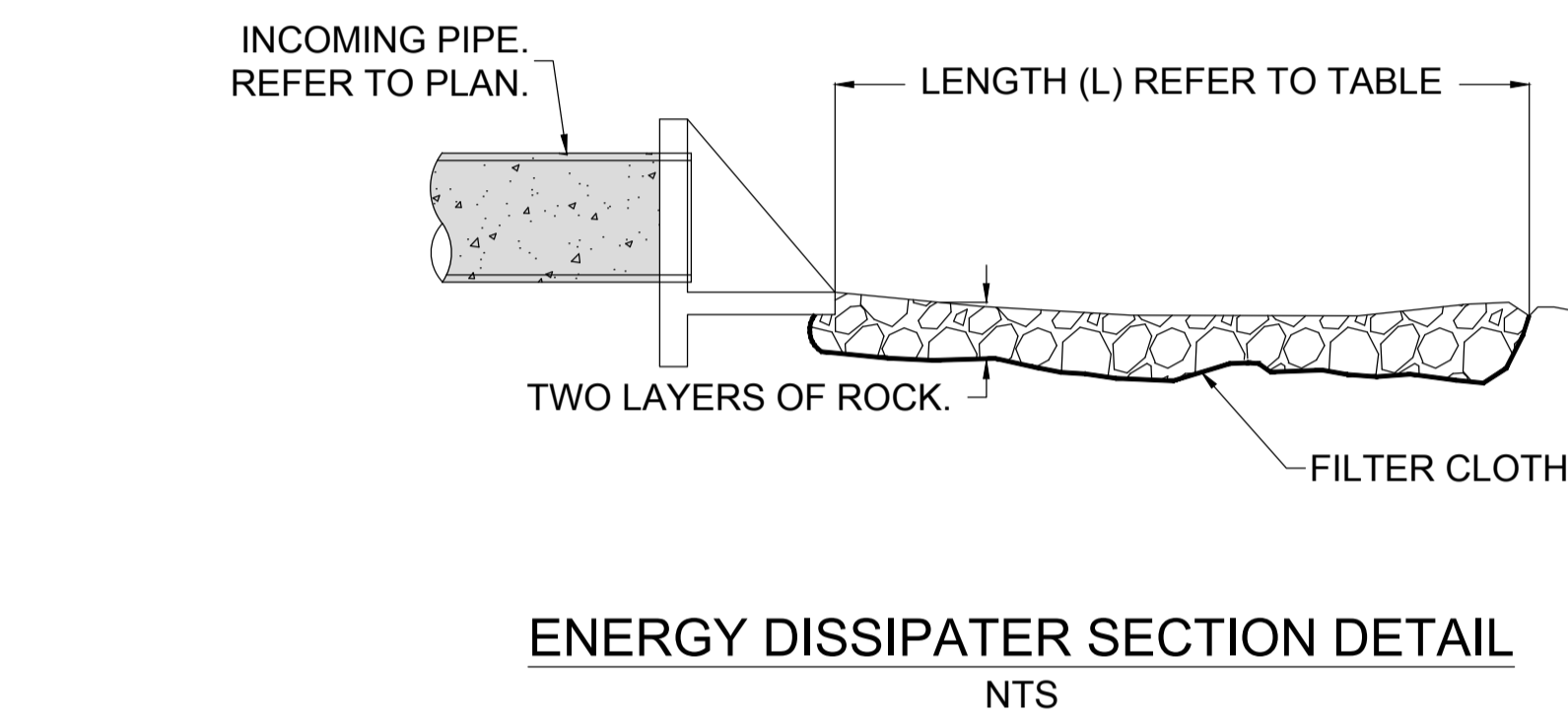
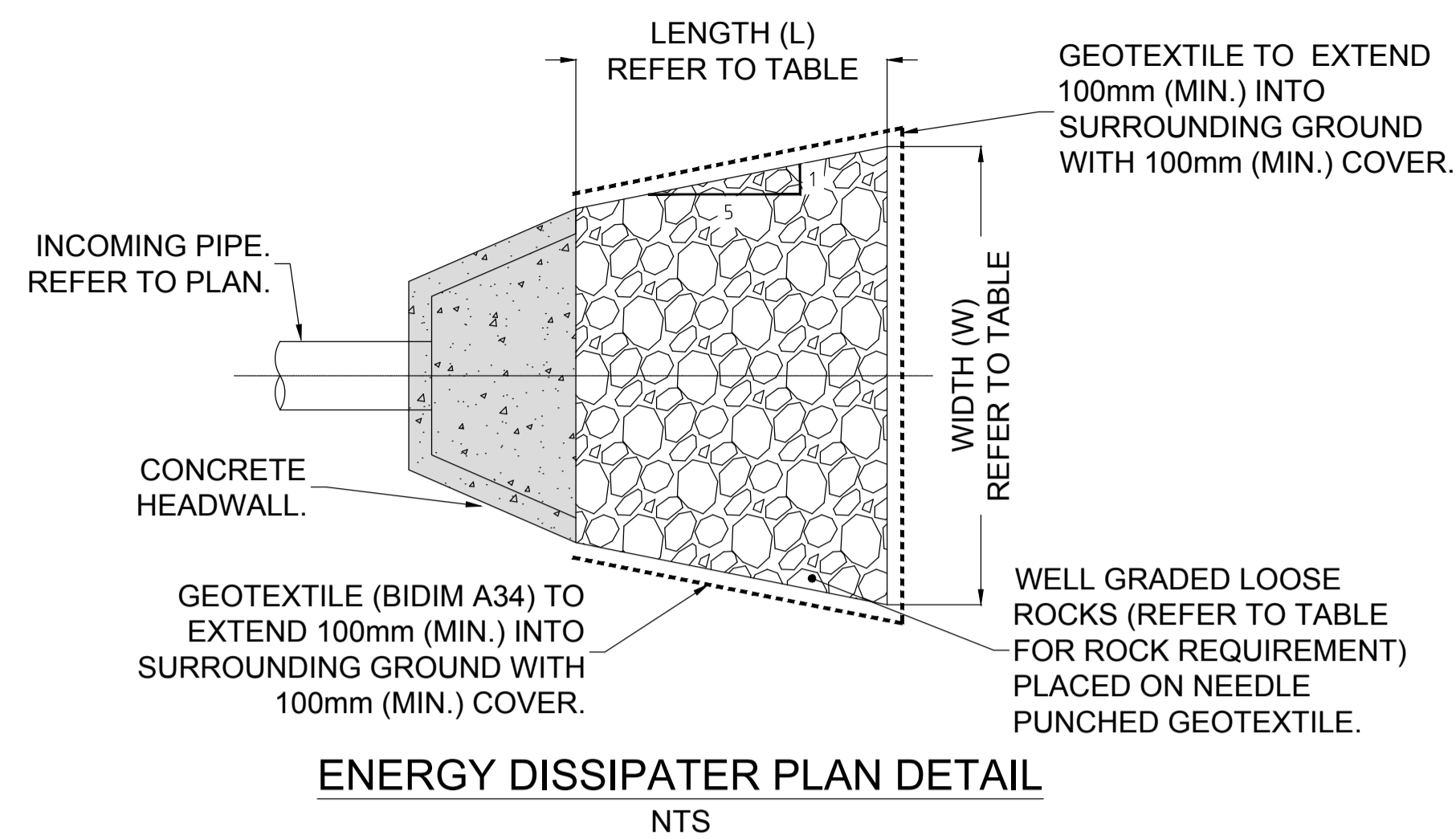
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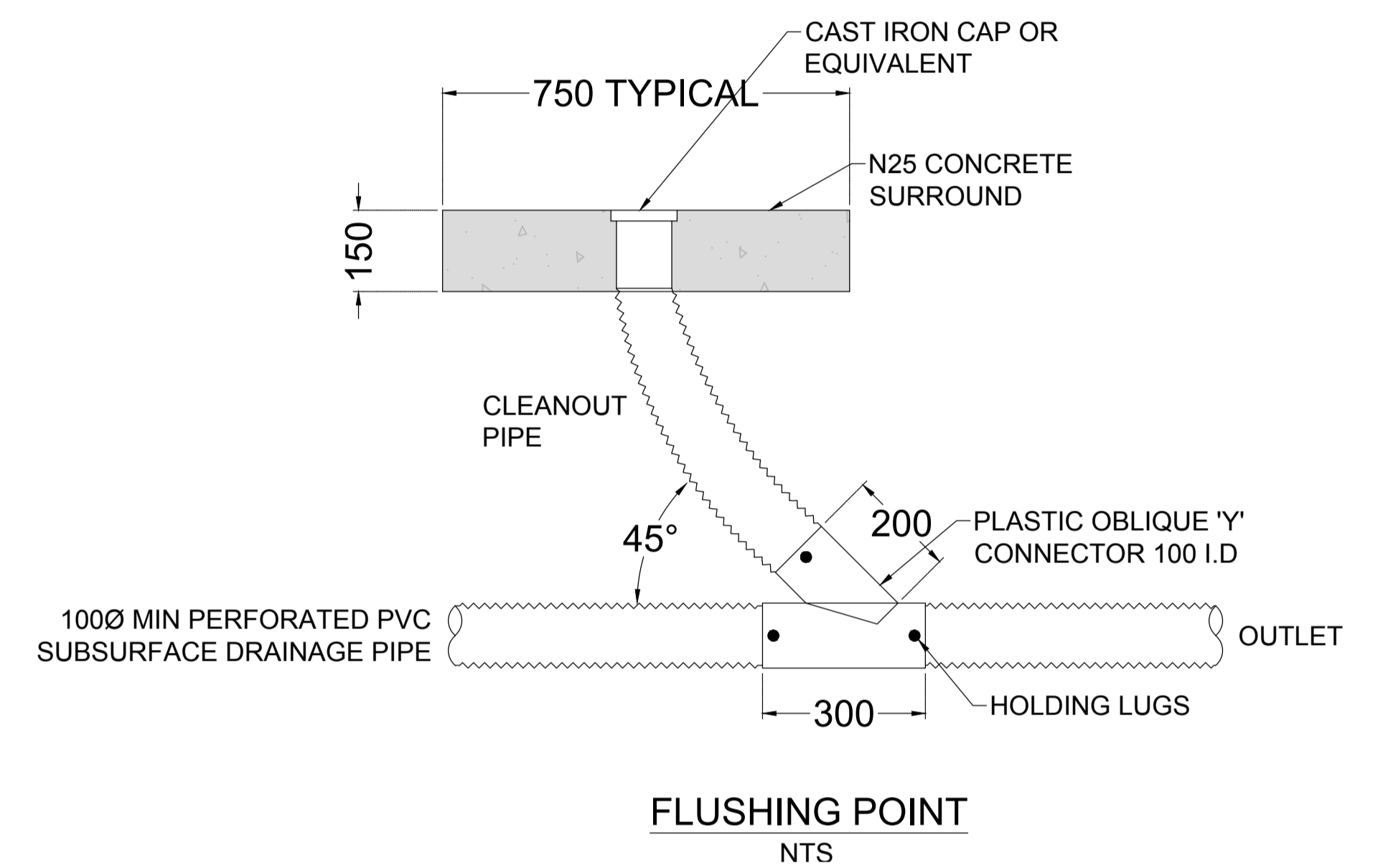
SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL	
DESIGN:	M.M	PROJECT:	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG	
DRAWN:	M.M	DRAWING TITLE:	TYPICAL SECTIONS SHEET 01 OF 02	
CHECKED:	M.M	DATE:	11.08.2023	APPROVED:
DATE:	11.08.2023	PLAN:	N/A	
APPROVED:	M.M	LONGITUDINAL SECTION:	HORIZ. N/A VERT. N/A	CROSS SECTION:
				HORIZ. N/A VERT. N/A

PROJECT No	AL22077	REVISION	1
DWG No	C03-04	<b>CONSTRUCTION</b>	
SHEET 04 OF 116 SHEETS			

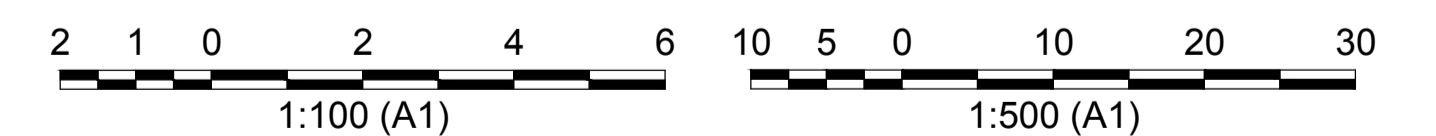
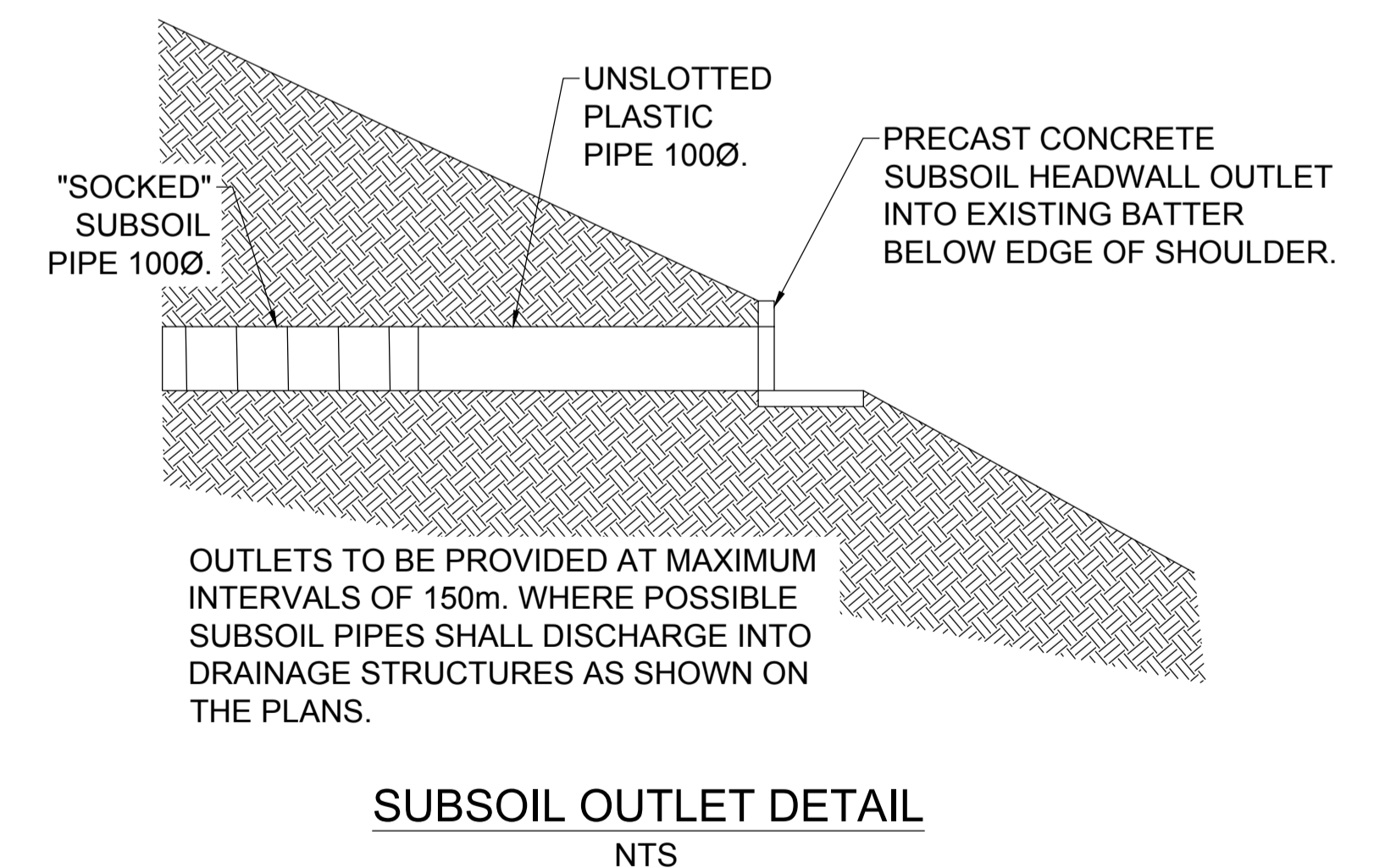
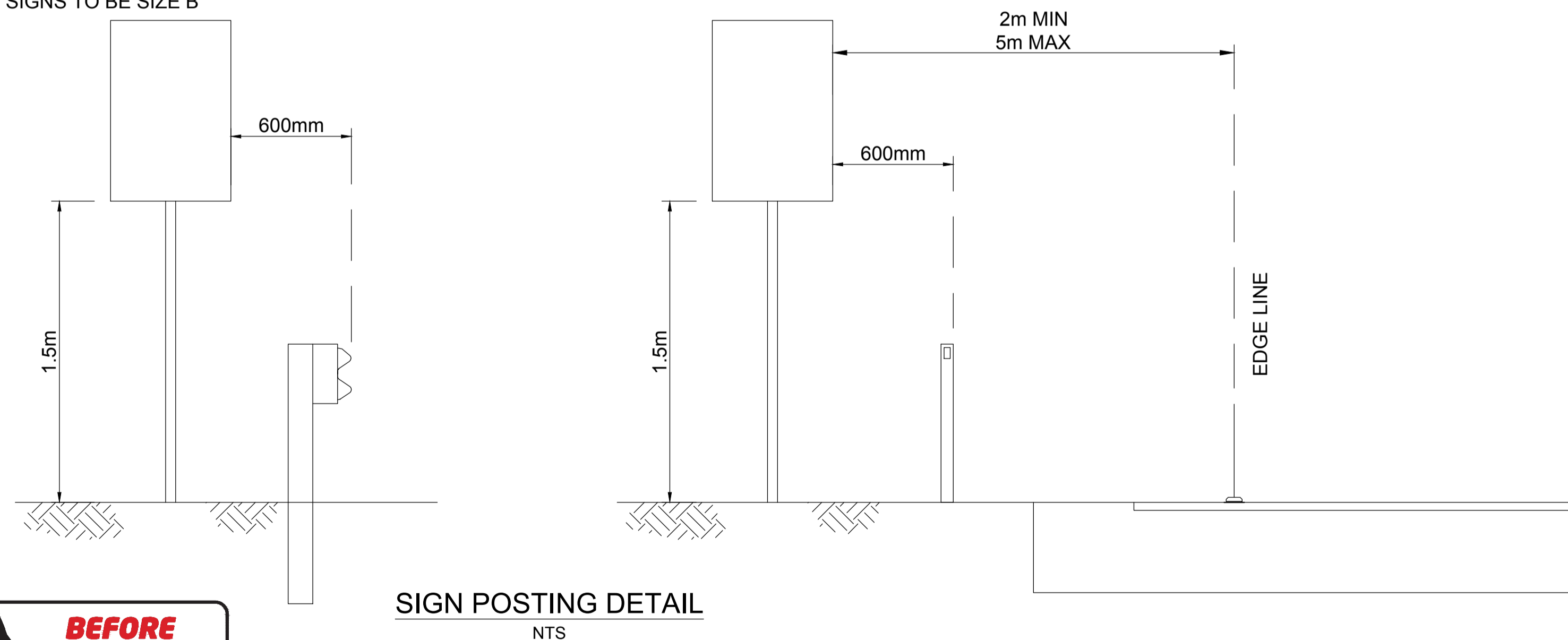
REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23



SCOUR PROTECTION								
LINE	CULVERT CHAINAGE (m)	CULVERT SIZE (mm)	UPSTREAM			DOWNSTREAM		
			ROCK SIZE $d_{50}$ (mm)	WIDTH (m)	LENGTH (m)	ROCK SIZE $d_{50}$ (mm)	WIDTH (m)	LENGTH (m)
1	DRIVEWAY 1 (CH180)	375Ø	100	HEADWALL WIDTH	1.5	100	HEADWALL WIDTH	1.5
3	DRIVEWAY 3 (CH801)	375Ø	100	HEADWALL WIDTH	1.5	100	HEADWALL WIDTH	1.5
5	DRIVEWAY 5 (CH1071)	375Ø	100	HEADWALL WIDTH	1.5	100	HEADWALL WIDTH	1.5
7	DRIVEWAY 7 (CH1196)	375Ø	100	HEADWALL WIDTH	1.5	100	HEADWALL WIDTH	1.5
11	DRIVEWAY 11 (CH1510)	375Ø	100	HEADWALL WIDTH	1.5	100	HEADWALL WIDTH	1.5
20	304	375Ø	100	HEADWALL WIDTH	1.5	100	HEADWALL WIDTH	1.5
21	1003	375Ø	100	HEADWALL WIDTH	1.5	100	HEADWALL WIDTH	1.5
22	1048	375Ø	100	HEADWALL WIDTH	1.5	100	HEADWALL WIDTH	1.5



- NOTE:
- SIGN POSTS TO BE FRANGIBLE WITH NOMINAL BORE 50L mm AND 2.9mm WALL THICKNESS AS PER AS1742.2
  - FOUNDATION TO BE CONSTRUCTED AS PER SINGLETON COUNCIL'S ENGINEERING DEVELOPMENT SPECIFICATIONS FOR CONSTRUCTION C262 - SIGNPOSTING
  - ALL SIGNS TO BE CLASS 1 RETROFLECTIVE
  - ALL SIGNS TO BE SIZE B



REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

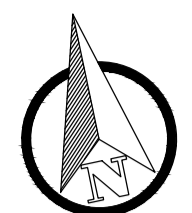
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SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL	
DESIGN:	M.M	PLAN:	LONGITUDINAL SECTION	CROSS SECTION
DRAWN:	M.M	HORIZ.:	N/A	N/A
CHECKED:	M.M	VERT.:	N/A	N/A
DATE:	11.08.2023	APPROVED:	M.M	N/A

PROJECT  
**LOCAL ROAD RENEWAL  
 STAGE 1 & STAGE 2  
 SANDY CREEK ROAD, QUORROBOLONG**  
 DRAWING TITLE  
**TYPICAL SECTIONS SHEET 02 OF 02**  
**SHEET 05 OF 116 SHEETS**

PROJECT No	AL22077	REVISION	1
DWG No	C03-05	<b>CONSTRUCTION</b>	



DP 859794

MATCH EXISTING LEVELS AT START OF WORKS AND MAKE SMOOTH CONNECTION.

SEAL DRIVEWAY TO BOUNDARY WITH TWO COAT SEAL. REFER TO DRAWING C08-94 DRIVEWAY 01.

DOWNSTREAM OF CULVERT ALTER DRAIN AS REQUIRED AS NOT TO CREATE AREAS OF PONDING.

EXISTING 300Ø CULVERT TO BE REMOVED AND REPLACED WITH NEW 375Ø RCP. REFER TO DRAWING C07-92 FOR LONGITUDINAL SECTION.

CAUTION: COMMUNICATION CABLE. CARE TO BE TAKEN DURING CONSTRUCTION WORKS.

CAUTION: OVERHEAD POWER. CARE TO BE TAKEN DURING CONSTRUCTION WORKS.

EXISTING CULVERT TO STAY.

SEAL DRIVEWAY TO BOUNDARY WITH TWO COAT SEAL. REFER TO DRAWING C08-94 DRIVEWAY 02.

SAWCUT CONCRETE DRIVEWAY AS REQUIRED AND REINSTATE TO NEW LEVELS.

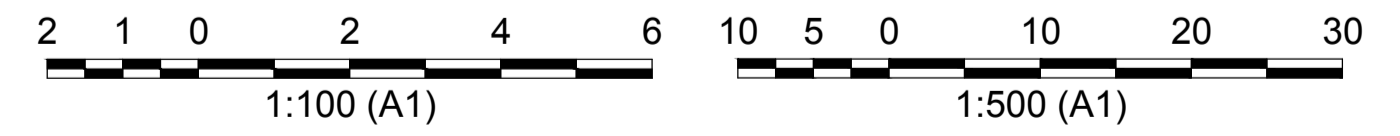
- LEGEND**
- 29.0 --- CONTOURS - EXISTING
  - 29.0 --- CONTOURS - PROPOSED
  - NEW ROAD PAVEMENT
  - DRIVEWAY RECONSTRUCTION
  - PROPOSED GUARD RAIL
  - PROPOSED STORMWATER
  - EXISTING STORMWATER
  - EXISTING FENCE LINE
  - EXISTING OVER HEAD POWER
  - EXISTING TELECOM
  - △ 2180CR01 CONTROL MARK (SURVEY STATION)
  - EXISTING TREE
  - TREE TO BE REMOVED
  - TREE TO BE RETAINED AS PER REF

**SITE PLAN**  
SCALE 1:500

CHAINAGE	EXISTING	DESIGN	DEPTH	SUPER RIGHT SIDE	SUPER LEFT SIDE
0.000	141.10			0.00%	0.00%
5.000	141.21			0.00%	0.00%
10.000	141.33			0.00%	0.00%
15.000	141.43			0.00%	0.00%
20.000	141.51			0.00%	0.00%
25.000	141.58			0.00%	0.00%
30.000	141.66			0.00%	0.00%
35.000	141.69			0.00%	0.00%
40.000	141.70			0.00%	0.00%
45.000	141.76			0.00%	0.00%
50.000	141.76			0.00%	0.00%
55.000	141.77			0.00%	0.00%
60.000	141.76			0.00%	0.00%
65.000	141.74			0.00%	0.00%
70.000	141.73			0.00%	0.00%
75.000	141.71			0.00%	0.00%
80.000	141.68			0.00%	0.00%
85.000	141.64			0.00%	0.00%
90.000	141.59			0.00%	0.00%
95.000	141.51			0.00%	0.00%
100.000	141.42			0.00%	0.00%
105.000	141.30			0.00%	0.00%
106.520	141.27	141.268	+0.002	-2.00%	-3.25%
110.000	141.18	141.202	+0.019	-2.05%	-3.62%
115.000	141.04	141.108	+0.064	-2.13%	-3.69%
120.000	140.90	141.013	+0.113	-2.20%	-3.75%
125.000	140.76	140.919	+0.160	-2.28%	-3.81%
130.000	140.62	140.824	+0.207	-2.35%	-3.87%
135.000	140.49	140.730	+0.244	-2.43%	-3.94%
136.760	140.44	140.697	+0.254	-2.45%	-3.96%
139.236	140.38	140.650	+0.267	-2.49%	-3.99%
140.000	140.36	140.636	+0.271	-2.50%	-4.00%
145.000	140.25	140.543	+0.298	-2.50%	-4.00%
150.000	140.14	140.452	+0.310	-2.50%	-4.00%
155.000	140.04	140.363	+0.325	-2.50%	-4.00%
160.000	139.94	140.275	+0.340	-2.50%	-4.00%
165.000	139.83	140.188	+0.359	-2.50%	-4.00%
170.000	139.73	140.104	+0.378	-2.50%	-4.00%
174.690	139.63	140.025	+0.396	-2.50%	-4.00%
175.000	139.62	140.020	+0.398	-2.50%	-4.00%
180.000	139.54	139.939	+0.403	-2.50%	-4.00%
185.000	139.46	139.859	+0.397	-2.50%	-4.00%
190.000	139.39	139.780	+0.393	-2.50%	-4.00%
195.000	139.32	139.703	+0.388	-2.50%	-4.00%
200.000	139.24	139.628	+0.384	-2.50%	-4.00%
203.247	139.19	139.580	+0.390	-2.50%	-4.00%
205.000	139.16	139.554	+0.394	-2.50%	-4.00%
210.000	139.09	139.482	+0.391	-2.50%	-4.00%
212.620	139.06	139.445	+0.387	-2.50%	-4.00%
215.000	139.03	139.412	+0.382	-2.50%	-4.00%
220.000	138.97	139.341	+0.369	-2.50%	-4.00%
225.000	138.91	139.271	+0.360	-2.50%	-4.00%
230.000	138.83	139.200	+0.368	-2.50%	-4.00%
235.000	138.75	139.130	+0.377	-2.50%	-4.00%
237.659	138.72	139.092	+0.377	-2.50%	-4.00%
240.000	138.68	139.059	+0.377	-2.50%	-4.00%
245.000	138.61	138.992	+0.380	-2.50%	-4.00%
250.000	138.54	138.928	+0.385	-2.50%	-4.00%
255.000	138.47	138.866	+0.392	-2.50%	-4.00%
257.659	138.44	138.835	+0.399	-2.50%	-4.00%
260.000	138.40	138.808	+0.403	-2.50%	-4.00%
265.000	138.34	138.754	+0.417	-2.50%	-4.00%
270.000	138.28	138.702	+0.421	-2.50%	-4.00%
275.000	138.23	138.653	+0.423	-2.50%	-4.00%
277.659	138.21	138.629	+0.422	-2.50%	-4.00%
280.000	138.19	138.608	+0.422	-2.50%	-4.00%
285.000	138.14	138.562	+0.422	-2.50%	-4.00%
285.675	138.13	138.556	+0.423	-2.50%	-4.00%
290.000	138.09	138.515	+0.428	-2.50%	-4.00%
295.000	138.03	138.463	+0.430	-2.50%	-4.00%
297.979	138.00	138.430	+0.427	-2.50%	-4.00%
300.000	137.98	138.407	+0.425	-2.50%	-4.00%
305.000	137.94	138.345	+0.406	-2.50%	-4.00%
310.000	137.88	138.279	+0.394	-2.50%	-4.00%
312.201	137.86	138.248	+0.392	-2.50%	-4.00%
315.000	137.82	138.208	+0.388	-2.50%	-4.00%
320.000	137.75	138.132	+0.384	-2.50%	-4.00%
325.000	137.67	138.052	+0.384	-2.50%	-4.00%
325.675	137.66	138.040	+0.383	-2.50%	-4.00%

ROAD No. Ch 0.000 to Ch 325.675  
H=1:500 V=1:100

SANDY CREEK ROAD



REV	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE

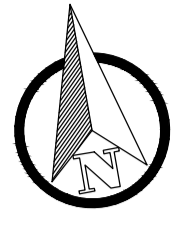
**AL CIVIL DESIGN**  
AL Civil Design  
5 Yew Street  
GILLJESTON HEIGHTS NSW 2321  
0466 253 917

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D. AL Civil Design relying on surface indicators that are incorrect or inaccurate.  
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F. Lodgement of this plan with any local authority against the recommendation of AL Civil Design.  
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6. Any service line unless otherwise noted has been plotted from the records of relevant authorities where available. Prior to any demolition, excavation or construction on the site, the relevant authority should be contacted for possible location of further underground services and detailed locations of all service.

SURVEY: DELFS LASCELLES	CLIENT: CESSNOCK CITY COUNCIL
DESIGN: M.M	PROJECT: LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWN: M.M	DRAWING TITLE: PLAN & LONGITUDINAL SECTION SHEET 01 OF 09
CHECKED: M.M	SHEET 06 OF 116 SHEETS
DATE: 11.08.2023	PLAN: LONGITUDINAL SECTION CROSS SECTION
APPROVED: M.M	1:500 (A1) HORIZ. 1:500 HORIZ. N/A VERT. 1:100 VERT. N/A

PROJECT No: AL22077	REVISION: 1
DWG No: C04-06	
<b>CONSTRUCTION</b>	
10 5 0 10 20 30 1:500 (A1)	

FOR CONTINUATION REFER TO DRAWING C04-07



**LEGEND**

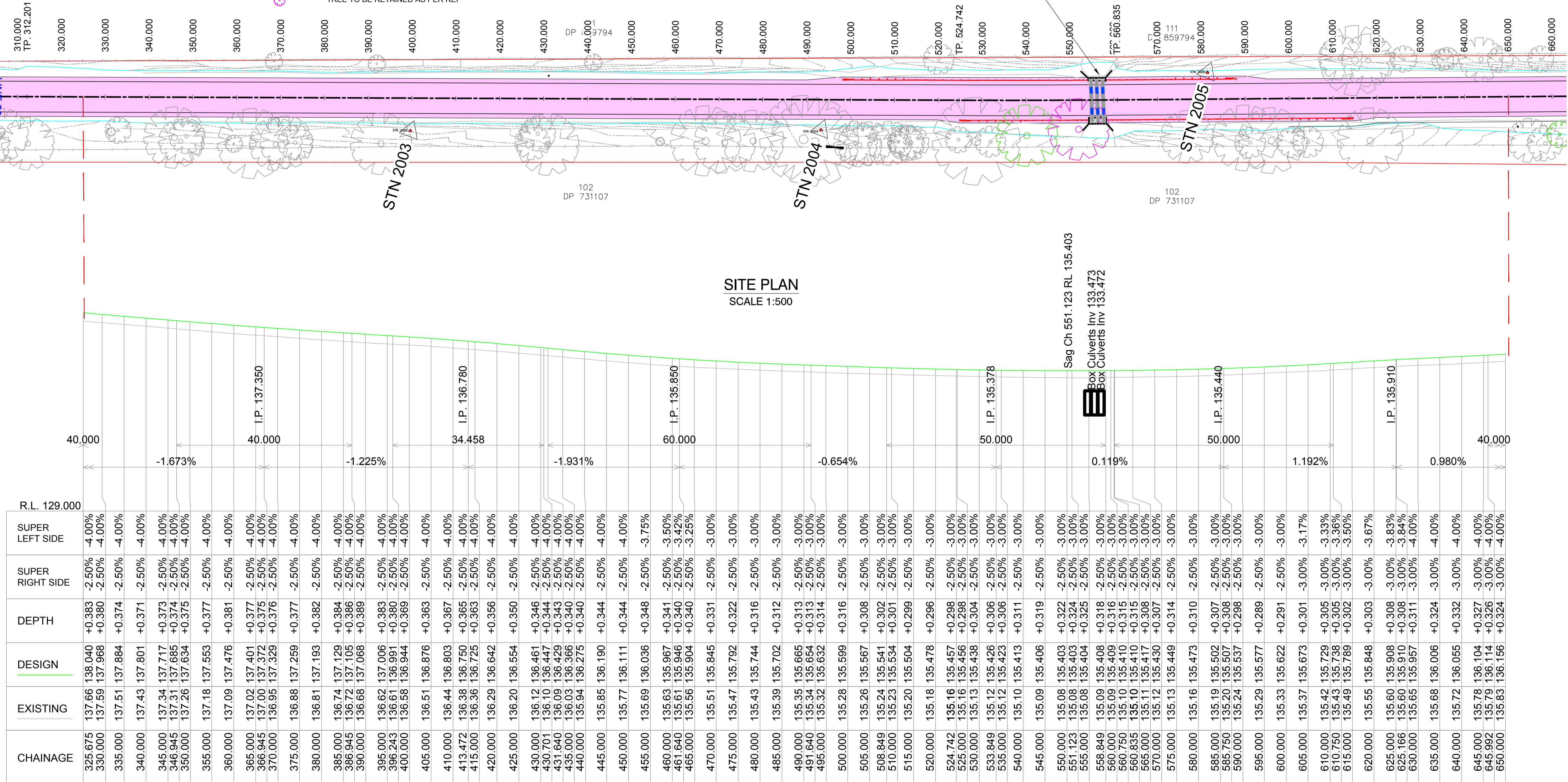
- 29.0 --- CONTOURS - EXISTING
- - - 29.0 - - - CONTOURS - PROPOSED
- █ NEW ROAD PAVEMENT
- █ DRIVEWAY RECONSTRUCTION
- █ PROPOSED GUARD RAIL
- █ PROPOSED STORMWATER
- █ EXISTING STORMWATER
- EXISTING FENCE LINE
- EXISTING OVER HEAD POWER
- EXISTING TELECOM
- △ 2180CR01 CONTROL MARK (SURVEY STATION)
- EXISTING TREE
- TREE TO BE REMOVED
- TREE TO BE RETAINED AS PER REF

FOR CONTINUATION REFER TO DRAWING C04-06  
I.P. 297.9/9  
300.000

FOR CONTINUATION REFER TO DRAWING C04-08

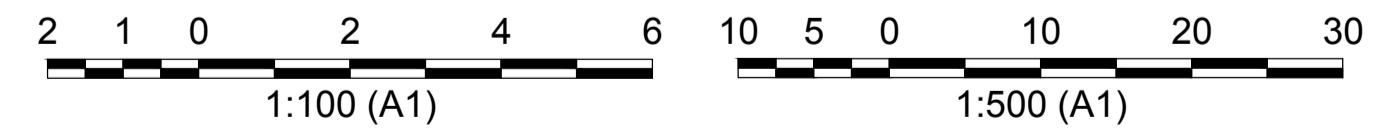
RAISE HEADWALL AREA AS  
REQUIRED. REFER TO C06-86  
FOR PROPOSED WORKS.

**SITE PLAN**  
SCALE 1:500



ROAD No.  
Ch 325.675 to Ch 650.000  
H=1:500 V=1:100

SANDY CREEK ROAD



REV	ISSUE FOR CONSTRUCTION	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
	REVISION DETAILS		

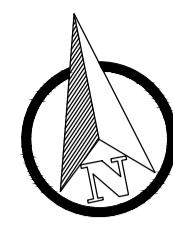
**AL CIVIL DESIGN**  
5 Yew Street  
GILLIESTON HEIGHTS NSW 2321  
0466 253 917

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C. Any inaccuracies or other faults with information or data sourced from a Third Party.  
D. AL Civil Design relying on surface indicators that are incorrect or inaccurate.  
E. The Client or any Third Party not verifying information in this plan where recommended by AL Civil Design.  
F. Lodgement of this plan with any local authority against the recommendation of AL Civil Design.  
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SURVEY: DELFS LASCELLES	CLIENT: CESSNOCK CITY COUNCIL
DESIGN: M.M	
DRAWN: M.M	
CHECKED: M.M	
DATE: 11.08.2023	PLAN: LONGITUDINAL SECTION CROSS SECTION
APPROVED: M.M	HORIZ. 1:500 HORIZ. N/A
	VERT. 1:100 VERT. N/A

PROJECT: LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG  
DRAWING TITLE: PLAN & LONGITUDINAL SECTION SHEET 02 OF 09  
SHEET 07 OF 116 SHEETS

PROJECT No: AL22077	REVISION: 1
DWG No: C04-07	
<b>CONSTRUCTION</b>	
1:500 (A1)	



**LEGEND**

- 29.0 --- CONTOURS - EXISTING
- 29.0 --- CONTOURS - PROPOSED
- NEW ROAD PAVEMENT
- DRIVEWAY RECONSTRUCTION
- PROPOSED GUARD RAIL
- PROPOSED STORMWATER
- EXISTING STORMWATER
- EXISTING FENCE LINE
- EXISTING OVER HEAD POWER
- EXISTING TELECOM
- △2180CR01 CONTROL MARK (SURVEY STATION)
- EXISTING TREE
- TREE TO BE REMOVED
- TREE TO BE RETAINED AS PER REF

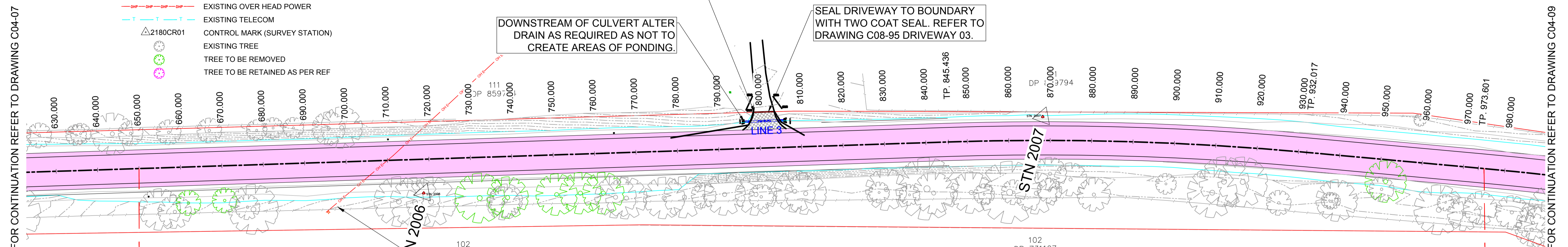
REMOVE EXISTING 150Ø PIPE AND CONSTRUCT NEW 375Ø RCP 2m FROM EDGE OF SHOULDER AS REQUIRED PER COUNCIL STANDARD DRAWING SD13. REFER TO DRAWING C08-90 LINE 3.

DOWNSTREAM OF CULVERT ALTER DRAIN AS REQUIRED AS NOT TO CREATE AREAS OF PONDING.

SEAL DRIVEWAY TO BOUNDARY WITH TWO COAT SEAL. REFER TO DRAWING C08-95 DRIVEWAY 03.

CAUTION: OVERHEAD POWER. CARE TO BE TAKEN DURING CONSTRUCTION WORKS.

**SITE PLAN**  
SCALE 1:500



CHAINAGE	EXISTING	DESIGN	DEPTH	SUPER RIGHT SIDE	SUPER LEFT SIDE
650.000	135.83	136.156	+0.324	-3.00%	-4.00%
655.000	135.89	136.214	+0.321	-3.00%	-4.00%
660.000	135.95	136.279	+0.325	-3.00%	-4.00%
665.000	136.04	136.352	+0.315	-3.00%	-4.00%
665.992	136.05	136.367	+0.314	-3.00%	-4.00%
670.000	136.12	136.431	+0.310	-3.00%	-4.00%
675.000	136.21	136.518	+0.308	-3.00%	-4.00%
680.000	136.30	136.611	+0.313	-3.00%	-4.00%
685.000	136.39	136.712	+0.324	-2.92%	-4.00%
685.992	136.41	136.733	+0.327	-2.90%	-4.00%
688.737	136.45	136.791	+0.336	-2.85%	-4.00%
690.000	136.48	136.818	+0.337	-2.83%	-4.00%
695.000	136.60	136.922	+0.321	-2.75%	-4.00%
700.000	136.72	137.024	+0.303	-2.67%	-4.00%
705.000	136.83	137.124	+0.296	-2.58%	-4.00%
710.000	136.93	137.223	+0.289	-2.50%	-4.00%
713.737	136.99	137.295	+0.308	-2.50%	-4.00%
715.000	137.01	137.319	+0.314	-2.50%	-4.00%
720.000	137.08	137.413	+0.337	-2.50%	-4.00%
725.000	137.16	137.505	+0.344	-2.50%	-4.00%
730.000	137.25	137.595	+0.349	-2.50%	-4.00%
735.000	137.33	137.683	+0.350	-2.50%	-4.00%
738.737	137.40	137.747	+0.349	-2.50%	-4.00%
740.000	137.42	137.769	+0.348	-2.50%	-4.00%
740.689	137.43	137.780	+0.346	-2.50%	-4.00%
745.000	137.52	137.863	+0.345	-2.50%	-4.00%
750.000	137.62	137.958	+0.343	-2.50%	-4.00%
755.000	137.72	138.054	+0.333	-2.50%	-4.00%
760.000	137.82	138.149	+0.331	-2.50%	-4.00%
765.000	137.90	138.245	+0.347	-2.50%	-4.00%
770.000	137.98	138.340	+0.357	-2.50%	-4.00%
775.000	138.07	138.436	+0.363	-2.50%	-3.91%
780.000	138.14	138.531	+0.387	-2.50%	-3.81%
783.170	138.20	138.592	+0.391	-2.50%	-3.75%
785.000	138.23	138.626	+0.392	-2.50%	-3.72%
790.000	138.33	138.718	+0.383	-2.50%	-3.62%
795.000	138.40	138.804	+0.409	-2.50%	-3.53%
800.000	138.47	138.886	+0.420	-2.50%	-3.44%
805.000	138.55	138.963	+0.415	-2.50%	-3.34%
810.000	138.61	139.036	+0.427	-2.50%	-3.25%
815.000	138.71	139.103	+0.389	-2.50%	-3.16%
818.170	138.80	139.144	+0.347	-2.50%	-3.10%
820.000	138.82	139.166	+0.342	-2.50%	-3.06%
825.000	138.90	139.224	+0.325	-2.50%	-2.97%
830.000	138.95	139.278	+0.328	-2.50%	-2.88%
835.000	138.98	139.327	+0.349	-2.50%	-2.78%
840.000	139.01	139.371	+0.363	-2.50%	-2.69%
845.000	139.04	139.410	+0.371	-2.50%	-2.59%
845.436	139.04	139.413	+0.372	-2.50%	-2.59%
850.000	139.09	139.444	+0.358	-2.50%	-2.50%
853.170	139.12	139.464	+0.345	-2.50%	-1.97%
855.000	139.14	139.474	+0.335	-2.50%	-1.67%
859.850	139.18	139.503	+0.323	-2.50%	-0.86%
860.000	139.18	139.503	+0.322	-2.50%	-0.83%
865.000	139.22	139.532	+0.315	-2.50%	0.00%
870.000	139.24	139.560	+0.319	-2.50%	0.83%
875.000	139.25	139.588	+0.334	-2.50%	1.67%
880.000	139.27	139.615	+0.341	-2.50%	2.50%
884.850	139.30	139.640	+0.340	-2.50%	2.50%
885.000	139.30	139.641	+0.340	-2.50%	2.50%
890.000	139.33	139.667	+0.335	-2.50%	2.50%
895.000	139.37	139.692	+0.325	-2.50%	2.50%
900.000	139.40	139.716	+0.319	-2.50%	2.50%
905.000	139.42	139.740	+0.317	-2.50%	2.50%
909.850	139.44	139.763	+0.325	-2.50%	2.50%
910.000	139.44	139.763	+0.325	-2.50%	2.50%
915.000	139.44	139.786	+0.342	-2.50%	2.50%
917.971	139.45	139.800	+0.349	-2.50%	1.91%
920.000	139.45	139.803	+0.357	-2.50%	1.50%
925.000	139.44	139.809	+0.374	-2.50%	0.50%
930.000	139.43	139.815	+0.388	-2.50%	-0.50%
932.017	139.43	139.817	+0.392	-2.50%	-0.90%
935.000	139.42	139.821	+0.399	-2.50%	-1.50%
940.000	139.42	139.827	+0.410	-2.50%	-2.50%
945.000	139.42	139.834	+0.413	-2.50%	-2.69%
950.000	139.42	139.840	+0.417	-2.50%	-2.88%
955.000	139.44	139.846	+0.409	-2.50%	-3.06%
960.000	139.46	139.852	+0.396	-2.50%	-3.25%
965.000	139.47	139.859	+0.392	-2.50%	-3.44%
970.000	139.47	139.865	+0.393	-2.50%	-3.63%
973.601	139.48	139.869	+0.392	-2.50%	-3.76%
975.000	139.48	139.871	+0.392	-2.50%	-3.81%

ROAD No.  
Ch 650.000 to Ch 975.000  
H=1:500 V=1:100

SANDY CREEK ROAD



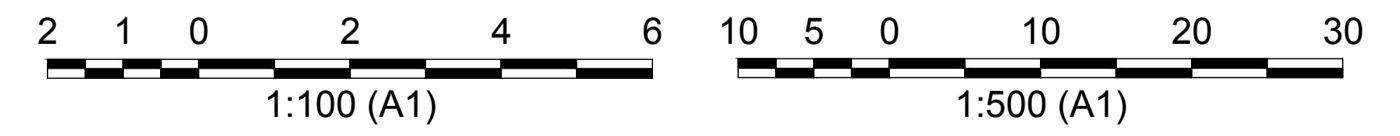
**AL CIVIL DESIGN**  
AL Civil Design  
5 Yew Street  
GILLIESTON HEIGHTS NSW 2321  
0466 253 917

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C. Any inaccuracies or other faults with information or data sourced from a Third Party.  
D. AL Civil Design relying on surface indicators that are incorrect or inaccurate.  
E. The Client or any Third Party not verifying information in this plan where recommended by AL Civil Design.  
F. Lodgement of this plan with any local authority against the recommendation of AL Civil Design.  
G. The accuracy, reliability, suitability or completeness of any approximations or estimates made or referred to by AL Civil Design in this plan.  
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5. The site boundaries as shown hereon were not marked at the time of survey and have been determined by plan dimensions only and not by field survey.  
6. Any service line unless otherwise noted has been plotted from the records of relevant authorities where available. Prior to any demolition, excavation or construction on the site, the relevant authority should be contacted for possible location of further underground services and detailed locations of all service.

SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M	PROJECT:	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWN:	M.M	DRAWING TITLE:	PLAN & LONGITUDINAL SECTION SHEET 03 OF 09
CHECKED:	M.M	DATE:	11.08.2023
DATE:	11.08.2023	APPROVED:	M.M
PLAN:	LONGITUDINAL SECTION HORIZ. 1:500 VERT. 1:100	CROSS SECTION:	HORIZ. N/A VERT. N/A

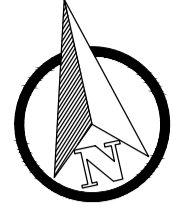
PROJECT No: AL22077  
DWG No: C04-08  
SHEET 08 OF 116 SHEETS

PROJECT No	AL22077	REVISION	1
DWG No	C04-08		



REV	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE



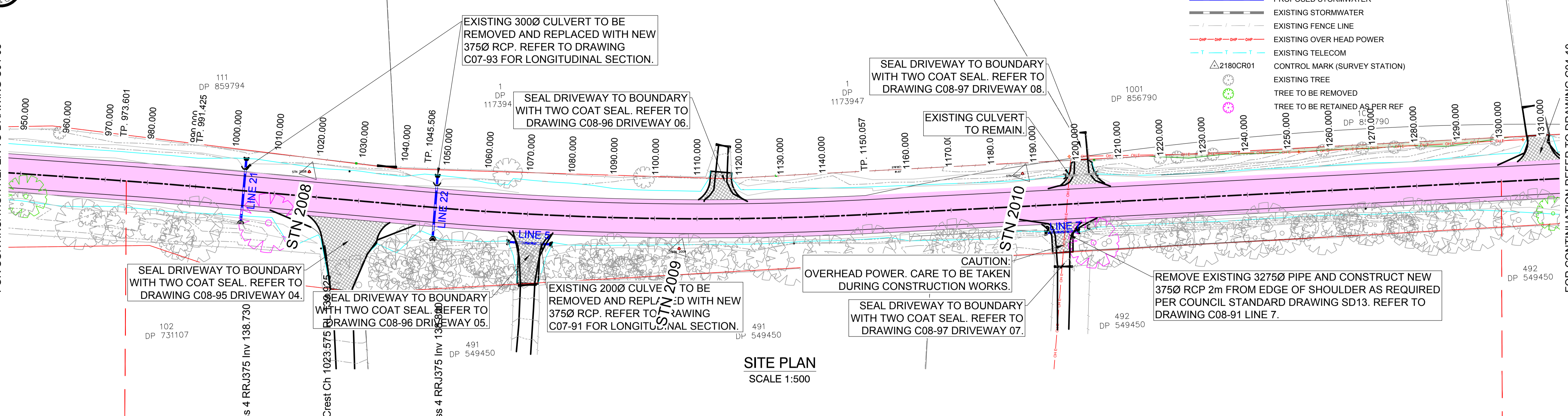


FOR CONTINUATION REFER TO DRAWING C04-08

FOR CONTINUATION REFER TO DRAWING C04-10

**LEGEND**

- 29.0 --- CONTOURS - EXISTING
- - - 29.0 - - - CONTOURS - PROPOSED
- ▬ NEW ROAD PAVEMENT
- ▬ DRIVEWAY RECONSTRUCTION
- ▬ PROPOSED GUARD RAIL
- ▬ PROPOSED STORMWATER
- ▬ EXISTING STORMWATER
- ▬ EXISTING FENCE LINE
- ▬ EXISTING OVER HEAD POWER
- ▬ EXISTING TELECOM
- △ 2180CR01 CONTROL MARK (SURVEY STATION)
- EXISTING TREE
- TREE TO BE REMOVED
- TREE TO BE RETAINED AS PER REF



**SITE PLAN**  
SCALE 1:500

CHAINAGE	EXISTING	DESIGN	DEPTH	SUPER RIGHT SIDE	SUPER LEFT SIDE
975.000	139.48	139.871	+0.392	-2.50%	-3.81%
980.000	139.49	139.877	+0.389	-2.50%	-4.00%
985.000	139.50	139.883	+0.379	-2.21%	-4.00%
990.000	139.53	139.890	+0.365	-1.93%	-4.00%
991.425	139.53	139.891	+0.360	-1.85%	-4.00%
995.000	139.55	139.896	+0.348	-1.64%	-4.00%
1000.000	139.57	139.902	+0.331	-1.36%	-4.00%
1005.000	139.57	139.908	+0.338	-1.07%	-4.00%
1010.000	139.55	139.915	+0.364	-0.79%	-4.00%
1012.421	139.55	139.918	+0.367	-0.65%	-4.00%
1015.000	139.56	139.920	+0.360	-0.50%	-4.00%
1020.000	139.58	139.924	+0.349	-0.21%	-4.00%
1023.575	139.57	139.925	+0.359	-0.01%	-4.00%
1025.000	139.56	139.924	+0.362	0.07%	-4.00%
1030.000	139.55	139.922	+0.368	0.36%	-4.00%
1035.000	139.58	139.917	+0.342	0.64%	-4.00%
1040.000	139.59	139.910	+0.321	0.93%	-4.00%
1042.421	139.59	139.905	+0.318	1.07%	-4.00%
1045.000	139.58	139.899	+0.316	1.21%	-4.00%
1045.506	139.58	139.898	+0.315	1.24%	-4.00%
1050.000	139.58	139.886	+0.309	1.50%	-4.00%
1055.000	139.57	139.869	+0.302	2.25%	-4.00%
1060.000	139.54	139.851	+0.307	3.00%	-4.00%
1065.000	139.51	139.829	+0.322	2.63%	-4.00%
1070.000	139.47	139.804	+0.335	2.27%	-4.00%
1072.421	139.44	139.791	+0.347	2.09%	-4.00%
1075.000	139.42	139.777	+0.359	1.90%	-4.00%
1080.000	139.38	139.750	+0.367	1.59%	-4.00%
1085.000	139.36	139.723	+0.362	1.17%	-4.00%
1090.000	139.34	139.695	+0.351	0.80%	-4.00%
1095.000	139.33	139.668	+0.341	0.43%	-4.00%
1100.000	139.31	139.641	+0.332	0.07%	-4.00%
1105.000	139.29	139.614	+0.325	-0.30%	-4.00%
1110.000	139.27	139.586	+0.317	-0.67%	-4.00%
1115.000	139.24	139.559	+0.319	-1.03%	-4.00%
1120.000	139.20	139.532	+0.328	-1.40%	-4.00%
1125.000	139.17	139.505	+0.333	-1.77%	-4.00%
1130.000	139.14	139.477	+0.332	-2.13%	-4.00%
1135.000	139.12	139.450	+0.333	-2.50%	-4.00%
1138.846	139.10	139.429	+0.327	-2.50%	-4.00%
1140.000	139.10	139.423	+0.325	-2.50%	-4.00%
1145.000	139.07	139.394	+0.323	-2.50%	-4.00%
1150.000	139.03	139.362	+0.331	-2.50%	-4.00%
1150.057	139.03	139.362	+0.331	-2.50%	-4.00%
1155.000	139.00	139.328	+0.332	-2.50%	-4.00%
1160.000	138.96	139.292	+0.328	-2.50%	-4.00%
1165.000	138.92	139.253	+0.332	-2.50%	-4.00%
1170.000	138.87	139.211	+0.340	-2.50%	-4.00%
1175.000	138.82	139.167	+0.347	-2.57%	-4.00%
1180.000	138.77	139.121	+0.354	-2.64%	-4.00%
1185.000	138.71	139.072	+0.359	-2.50%	-4.00%
1186.346	138.70	139.058	+0.357	-2.50%	-4.00%
1190.000	138.67	139.020	+0.354	-2.50%	-4.00%
1195.000	138.61	138.966	+0.352	-2.50%	-4.00%
1200.000	138.56	138.910	+0.350	-2.50%	-4.00%
1205.000	138.51	138.851	+0.346	-2.50%	-4.00%
1210.000	138.44	138.790	+0.346	-2.50%	-4.00%
1215.000	138.38	138.726	+0.350	-2.50%	-4.00%
1220.000	138.31	138.660	+0.346	-2.50%	-4.00%
1225.000	138.25	138.591	+0.336	-2.50%	-4.00%
1230.000	138.18	138.520	+0.336	-2.50%	-4.00%
1233.846	138.12	138.463	+0.339	-2.50%	-4.00%
1235.000	138.11	138.446	+0.341	-2.50%	-4.00%
1240.000	138.03	138.372	+0.343	-2.50%	-4.00%
1245.000	137.95	138.297	+0.346	-2.50%	-4.00%
1250.000	137.87	138.223	+0.348	-2.50%	-4.00%
1250.080	137.87	138.222	+0.349	-2.50%	-4.00%
1255.000	137.80	138.151	+0.349	-2.50%	-4.00%
1260.000	137.73	138.084	+0.352	-2.50%	-4.00%
1265.000	137.67	138.022	+0.347	-2.50%	-4.00%
1270.000	137.62	137.965	+0.347	-2.50%	-4.00%
1275.000	137.56	137.912	+0.347	-2.50%	-4.00%
1275.080	137.56	137.911	+0.347	-2.50%	-4.00%
1280.000	137.52	137.865	+0.348	-2.50%	-4.00%
1285.000	137.48	137.822	+0.344	-2.50%	-4.00%
1290.000	137.45	137.785	+0.334	-2.50%	-4.00%
1295.000	137.44	137.752	+0.311	-2.50%	-4.00%
1300.000	137.41	137.724	+0.310	-2.50%	-4.00%
1300.080	137.41	137.724	+0.311	-2.50%	-4.00%

ROAD No. Ch 975.000 to Ch 1300.080  
H=1:500 V=1:100  
**SANDY CREEK ROAD**



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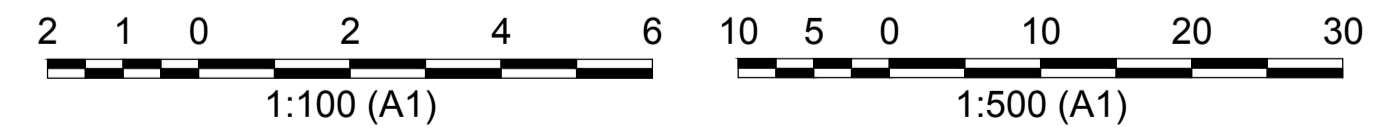
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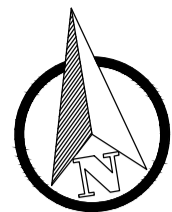
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SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M	PROJECT:	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWN:	M.M	DRAWING TITLE:	PLAN & LONGITUDINAL SECTION SHEET 04 OF 09
CHECKED:	M.M	DATE:	11.08.2023
DATE:	11.08.2023	APPROVED:	M.M
PLAN:	LONGITUDINAL SECTION	CROSS SECTION:	
1:500 (A1)	HORIZ. 1:500	HORIZ. N/A	
	VERT. 1:100	VERT. N/A	

PROJECT No:	AL22077	REVISION:	1
DWG No:	C04-09		
<b>CONSTRUCTION</b>			
SHEET 09 OF 116 SHEETS			

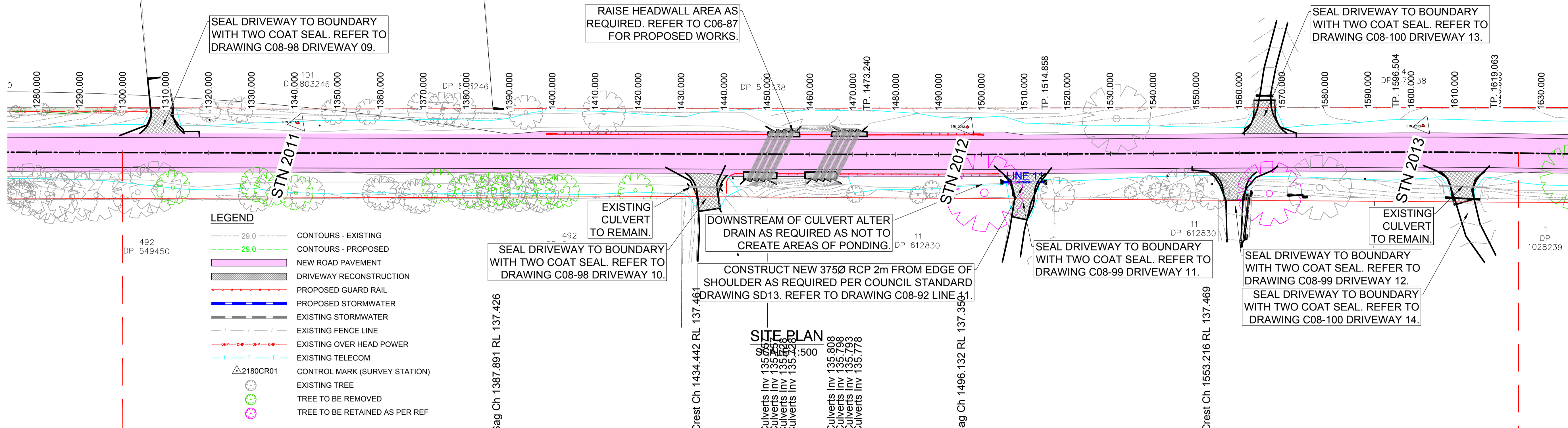


REV	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE



FOR CONTINUATION REFER TO DRAWING C04-09

FOR CONTINUATION REFER TO DRAWING C04-11



**LEGEND**

- 29.0 --- CONTOURS - EXISTING
- 29.0 --- CONTOURS - PROPOSED
- NEW ROAD PAVEMENT
- DRIVEWAY RECONSTRUCTION
- PROPOSED GUARD RAIL
- PROPOSED STORMWATER
- EXISTING STORMWATER
- EXISTING FENCE LINE
- EXISTING OVER HEAD POWER
- EXISTING TELECOM
- △2180CR01 CONTROL MARK (SURVEY STATION)
- EXISTING TREE
- TREE TO BE REMOVED
- TREE TO BE RETAINED AS PER REF

CHAINAGE	EXISTING	DESIGN	DEPTH	SUPER RIGHT SIDE	SUPER LEFT SIDE
1300.080	137.41	137.724	+0.311	-2.50%	-4.00%
1305.000	137.38	137.699	+0.322	-2.50%	-4.00%
1310.000	137.35	137.674	+0.328	-2.50%	-4.00%
1315.000	137.31	137.648	+0.334	-2.50%	-4.00%
1320.000	137.29	137.623	+0.336	-2.50%	-4.00%
1325.000	137.27	137.598	+0.329	-2.50%	-4.00%
1330.000	137.25	137.572	+0.320	-2.50%	-4.00%
1335.000	137.24	137.548	+0.311	-2.50%	-4.00%
1340.000	137.22	137.526	+0.303	-2.50%	-4.00%
1345.000	137.21	137.506	+0.296	-2.50%	-4.00%
1350.000	137.19	137.489	+0.298	-2.50%	-4.00%
1355.000	137.17	137.473	+0.307	-2.50%	-4.00%
1360.000	137.14	137.460	+0.317	-2.50%	-4.00%
1365.000	137.12	137.449	+0.330	-2.50%	-4.00%
1370.000	137.10	137.440	+0.339	-2.50%	-4.00%
1375.000	137.09	137.433	+0.339	-2.50%	-4.00%
1380.000	137.09	137.429	+0.336	-2.50%	-4.00%
1385.000	137.10	137.426	+0.329	-2.50%	-4.00%
1387.891	137.10	137.426	+0.324	-2.50%	-4.00%
1390.000	137.11	137.426	+0.317	-2.50%	-4.00%
1395.000	137.11	137.428	+0.318	-2.50%	-4.00%
1400.000	137.11	137.432	+0.324	-2.50%	-4.00%
1405.000	137.11	137.438	+0.326	-2.50%	-4.00%
1410.000	137.11	137.443	+0.329	-2.50%	-4.00%
1415.000	137.12	137.448	+0.328	-2.50%	-4.00%
1419.533	137.12	137.453	+0.328	-2.50%	-4.00%
1420.000	137.13	137.454	+0.329	-2.50%	-4.00%
1425.000	137.13	137.458	+0.327	-2.50%	-4.00%
1430.000	137.14	137.461	+0.325	-2.50%	-4.00%
1434.442	137.14	137.461	+0.325	-2.50%	-3.56%
1435.000	137.14	137.461	+0.325	-2.50%	-3.50%
1440.000	137.14	137.460	+0.325	-2.50%	-3.00%
1444.533	137.14	137.458	+0.321	-2.50%	-3.00%
1445.000	137.14	137.457	+0.320	-2.50%	-3.00%
1450.000	137.13	137.453	+0.320	-2.50%	-3.00%
1455.000	137.13	137.446	+0.312	-2.50%	-3.00%
1460.000	137.13	137.438	+0.312	-2.50%	-3.00%
1465.000	137.10	137.428	+0.332	-2.50%	-3.00%
1469.533	137.09	137.417	+0.327	-2.50%	-3.00%
1470.000	137.09	137.416	+0.326	-2.50%	-3.00%
1473.240	137.09	137.408	+0.318	-2.50%	-3.00%
1475.000	137.09	137.403	+0.314	-2.50%	-3.00%
1480.000	137.07	137.391	+0.322	-2.60%	-3.00%
1485.000	137.05	137.378	+0.329	-2.70%	-3.00%
1490.000	137.04	137.365	+0.325	-2.80%	-3.00%
1495.000	137.03	137.353	+0.318	-2.90%	-3.00%
1496.132	137.04	137.350	+0.313	-2.92%	-3.00%
1500.000	137.04	137.360	+0.322	-3.00%	-3.00%
1505.000	137.04	137.374	+0.335	-3.00%	-4.00%
1510.000	137.04	137.387	+0.345	-3.00%	-4.00%
1515.000	137.05	137.400	+0.351	-3.00%	-4.00%
1520.000	137.06	137.414	+0.356	-3.00%	-4.00%
1525.000	137.08	137.427	+0.349	-2.83%	-4.00%
1528.787	137.09	137.437	+0.346	-2.71%	-4.00%
1530.000	137.10	137.440	+0.342	-2.67%	-4.00%
1535.000	137.10	137.451	+0.352	-2.50%	-4.00%
1540.000	137.10	137.460	+0.361	-2.50%	-4.00%
1545.000	137.10	137.466	+0.365	-2.50%	-4.00%
1550.000	137.10	137.469	+0.368	-2.50%	-4.00%
1553.216	137.10	137.469	+0.368	-2.50%	-4.00%
1555.000	137.10	137.469	+0.367	-2.50%	-4.00%
1560.000	137.10	137.467	+0.365	-2.50%	-4.00%
1563.787	137.10	137.463	+0.360	-2.50%	-4.00%
1565.000	137.10	137.462	+0.357	-2.50%	-4.00%
1570.000	137.10	137.454	+0.353	-2.50%	-4.00%
1575.000	137.08	137.444	+0.361	-2.50%	-4.00%
1580.000	137.08	137.430	+0.355	-2.50%	-4.00%
1585.000	137.06	137.414	+0.353	-2.50%	-4.00%
1590.000	137.02	137.396	+0.377	-2.50%	-4.00%
1595.000	136.98	137.374	+0.397	-2.50%	-4.00%
1596.504	136.97	137.367	+0.396	-2.50%	-4.00%
1598.787	136.96	137.356	+0.396	-2.50%	-4.00%
1600.000	136.95	137.350	+0.395	-2.50%	-4.00%
1605.000	136.93	137.325	+0.393	-2.50%	-4.00%
1605.114	136.93	137.325	+0.394	-2.50%	-4.00%
1610.000	136.92	137.302	+0.378	-2.50%	-4.00%
1615.000	136.92	137.279	+0.362	-2.50%	-4.00%
1619.063	136.91	137.263	+0.356	-2.50%	-4.00%
1620.000	136.90	137.259	+0.356	-2.50%	-4.00%
1625.000	136.89	137.241	+0.352	-2.50%	-4.00%

ROAD No.  
Ch 1300.080 to Ch 1625.000  
H=1:500 V=1:100

SANDY CREEK ROAD



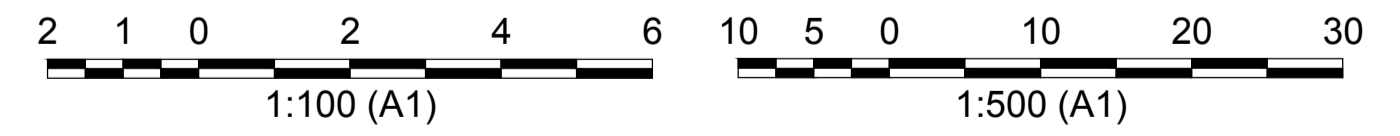
**AL CIVIL DESIGN**  
AL Civil Design  
5 Yew Street  
GILLJESTON HEIGHTS NSW 2321  
0466 253 917

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6. Any service line unless otherwise noted has been plotted from the records of relevant authorities where available. Prior to any demolition, excavation or construction on the site, the relevant authority should be contacted for possible location of further underground services and detailed locations of all service.

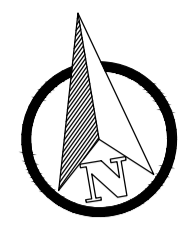
SURVEY: DELFS LASCELLES	CLIENT: CESSNOCK CITY COUNCIL
DESIGN: M.M	PROJECT: LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWN: M.M	DRAWING TITLE: PLAN & LONGITUDINAL SECTION SHEET 05 OF 09
CHECKED: M.M	PROJECT No: AL22077
DATE: 11.08.2023	DWG No: C04-10
APPROVED: M.M	REVISION: 1
PLAN: 1:500 (A1)	PROJECT No: AL22077
LONGITUDINAL SECTION: HORIZ. 1:500	DWG No: C04-10
CROSS SECTION: HORIZ. N/A	REVISION: 1
VERT. 1:100	PROJECT No: AL22077
VERT. N/A	DWG No: C04-10

**CONSTRUCTION**

SHEET 10 OF 116 SHEETS



REV	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE

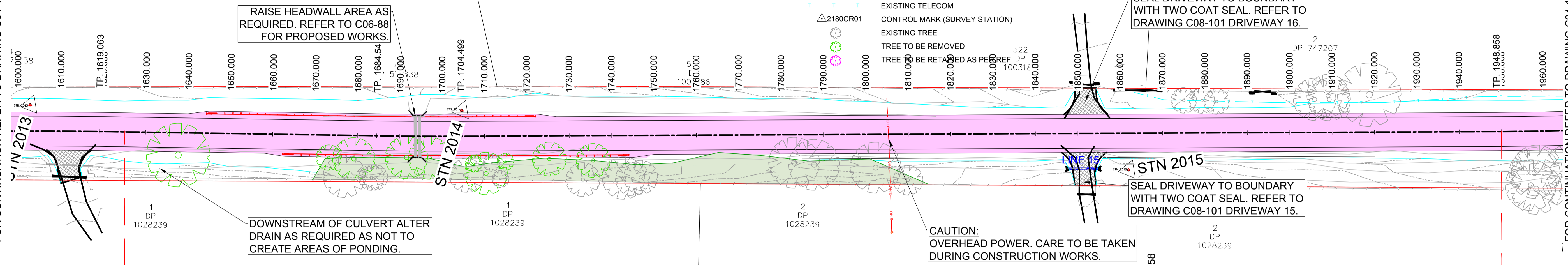


FOR CONTINUATION REFER TO DRAWING C04-10

FOR CONTINUATION REFER TO DRAWING C04-12

### LEGEND

- 29.0 --- CONTOURS - EXISTING
- 29.0 --- CONTOURS - PROPOSED
- NEW ROAD PAVEMENT
- DRIVEWAY RECONSTRUCTION
- PROPOSED GUARD RAIL
- PROPOSED STORMWATER
- EXISTING STORMWATER
- EXISTING FENCE LINE
- EXISTING OVER HEAD POWER
- EXISTING TELECOM
- CONTROL MARK (SURVEY STATION)
- EXISTING TREE
- TREE TO BE REMOVED
- TREE TO BE RETAINED AS PER



### SITE PLAN SCALE 1:500

CHAINAGE	EXISTING	DESIGN	DEPTH	SUPER RIGHT SIDE	SUPER LEFT SIDE
1625.000	136.89	137.241	+0.352	-2.50%	-4.00%
1630.000	136.88	137.224	+0.340	-2.50%	-4.00%
1635.000	136.88	137.209	+0.326	-2.50%	-4.00%
1640.000	136.88	137.196	+0.318	-2.50%	-4.00%
1645.000	136.87	137.185	+0.315	-2.50%	-4.00%
1650.000	136.86	137.176	+0.318	-2.50%	-4.00%
1655.000	136.84	137.168	+0.324	-2.50%	-4.00%
1660.000	136.83	137.163	+0.333	-2.50%	-4.00%
1665.000	136.83	137.159	+0.331	-2.50%	-4.00%
1665.114	136.83	137.159	+0.331	-2.50%	-4.00%
1670.000	136.83	137.156	+0.327	-2.50%	-4.00%
1675.000	136.82	137.153	+0.332	-2.50%	-4.00%
1680.000	136.81	137.150	+0.341	-2.50%	-4.00%
1684.549	136.80	137.147	+0.345	-2.50%	-4.00%
1685.000	136.80	137.147	+0.346	-2.50%	-4.00%
1690.000	136.80	137.144	+0.342	-2.50%	-4.00%
1695.000	136.82	137.141	+0.326	-2.50%	-4.00%
1700.000	136.80	137.139	+0.337	-2.50%	-3.00%
1700.298	136.80	137.138	+0.337	-2.50%	-3.00%
1704.371	136.80	137.137	+0.338	-2.50%	-3.00%
1704.499	136.80	137.137	+0.337	-2.50%	-3.00%
1705.000	136.80	137.137	+0.335	-2.50%	-3.00%
1710.000	136.83	137.139	+0.310	-2.50%	-3.00%
1715.000	136.85	137.145	+0.297	-2.50%	-3.00%
1720.000	136.86	137.154	+0.294	-2.50%	-3.00%
1725.000	136.86	137.167	+0.310	-2.50%	-3.00%
1730.000	136.86	137.184	+0.321	-2.50%	-4.00%
1730.298	136.86	137.185	+0.321	-2.50%	-4.00%
1735.000	136.89	137.204	+0.315	-2.50%	-4.00%
1740.000	136.90	137.227	+0.323	-2.50%	-4.00%
1745.000	136.92	137.254	+0.330	-2.50%	-4.00%
1750.000	136.96	137.285	+0.325	-2.50%	-4.00%
1755.000	137.00	137.319	+0.323	-2.50%	-4.00%
1760.000	137.04	137.357	+0.318	-2.50%	-4.00%
1760.298	137.04	137.359	+0.318	-2.50%	-4.00%
1765.000	137.08	137.396	+0.320	-2.50%	-4.00%
1770.000	137.12	137.436	+0.312	-2.50%	-4.00%
1775.000	137.16	137.476	+0.318	-2.50%	-4.00%
1775.539	137.16	137.480	+0.319	-2.50%	-4.00%
1780.000	137.18	137.505	+0.327	-2.50%	-4.00%
1785.000	137.20	137.533	+0.333	-1.95%	-4.00%
1790.000	137.23	137.561	+0.330	-1.40%	-4.00%
1795.000	137.26	137.590	+0.327	-0.85%	-4.00%
1800.000	137.29	137.618	+0.327	-0.30%	-4.00%
1805.000	137.32	137.646	+0.327	0.24%	-4.00%
1810.000	137.35	137.674	+0.323	0.79%	-4.00%
1815.000	137.38	137.702	+0.323	1.34%	-4.00%
1817.233	137.39	137.715	+0.324	1.59%	-4.00%
1820.000	137.40	137.730	+0.330	1.89%	-4.00%
1825.000	137.42	137.755	+0.338	1.96%	-4.00%
1830.000	137.44	137.778	+0.337	2.04%	-4.00%
1835.000	137.47	137.797	+0.326	2.11%	-4.00%
1840.000	137.50	137.814	+0.315	2.19%	-4.00%
1845.000	137.51	137.828	+0.319	2.26%	-4.00%
1850.000	137.51	137.840	+0.326	2.33%	-4.00%
1855.000	137.53	137.848	+0.323	2.41%	-4.00%
1857.233	137.53	137.851	+0.321	2.44%	-4.00%
1860.000	137.54	137.854	+0.318	2.48%	-4.00%
1865.000	137.54	137.857	+0.320	2.56%	-3.75%
1868.107	137.54	137.858	+0.320	2.60%	-3.59%
1870.000	137.54	137.858	+0.318	2.63%	-3.50%
1875.000	137.54	137.855	+0.313	2.70%	-3.25%
1880.000	137.54	137.850	+0.310	2.78%	-3.00%
1885.000	137.53	137.842	+0.316	2.85%	-3.00%
1890.000	137.51	137.831	+0.321	2.93%	-3.00%
1895.000	137.50	137.818	+0.318	3.00%	-3.00%
1897.233	137.50	137.811	+0.315	3.00%	-3.00%
1900.000	137.49	137.802	+0.310	3.00%	-3.00%
1905.000	137.48	137.786	+0.302	3.00%	-3.00%
1910.000	137.47	137.770	+0.295	3.00%	-3.00%
1915.000	137.46	137.754	+0.291	3.00%	-3.00%
1920.000	137.44	137.738	+0.301	3.00%	-3.00%
1925.000	137.41	137.722	+0.312	3.00%	-3.00%
1927.648	137.39	137.713	+0.321	3.00%	-3.00%
1930.000	137.38	137.703	+0.328	3.00%	-3.00%
1935.000	137.35	137.681	+0.335	3.25%	-3.25%
1940.000	137.32	137.660	+0.338	3.50%	-3.50%
1945.000	137.30	137.638	+0.335	3.75%	-3.75%
1948.858	137.29	137.621	+0.330	3.94%	-3.94%
1950.000	137.29	137.616	+0.329	4.00%	-4.00%

ROAD No.  
Ch 1625.000 to Ch 1950.000  
H=1:500 V=1:100  
SANDY CREEK ROAD

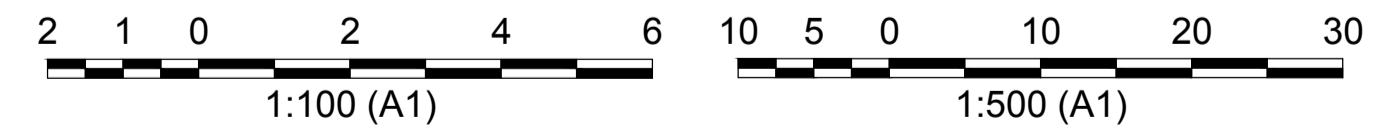


**AL CIVIL DESIGN**  
AL Civil Design  
5 Yew Street  
GILLISTON HEIGHTS NSW 2321  
0466 253 917

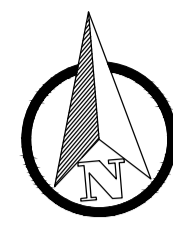
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C. Any inaccuracies or other faults with information or data sourced from a Third Party.  
D. AL Civil Design relying on surface indicators that are incorrect or inaccurate.  
E. The Client or any Third Party not verifying information in this plan where recommended by AL Civil Design.  
F. Lodgement of this plan with any local authority against the recommendation of AL Civil Design.  
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4. Scale shown is correct for the original plan and any copies of this plan should be verified by checking against the bar scale.  
5. The title boundaries as shown hereon were not marked at the time of survey and have been determined by plan dimensions only and not by field survey.  
6. Any service line unless otherwise noted has been plotted from the records of relevant authorities where available. Prior to any demolition, excavation or construction on the site, the relevant authority should be contacted for possible location of further underground services and detailed locations of all service.

SURVEY: DELFS LASCELLES	CLIENT: CESSNOCK CITY COUNCIL
DESIGN: M.M	PROJECT: LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWN: M.M	DWG No: C04-11
CHECKED: M.M	DRAWING TITLE: PLAN & LONGITUDINAL SECTION SHEET 06 OF 09
DATE: 11.08.2023	PLAN: 1:500 (A1)
APPROVED: M.M	LONGITUDINAL SECTION: HORIZ. 1:500 VERT. 1:100
	CROSS SECTION: HORIZ. N/A VERT. N/A

PROJECT No: AL22077	REVISION: 1
DWG No: C04-11	
<b>CONSTRUCTION</b>	
SHEET 11 OF 116 SHEETS	



REV	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE

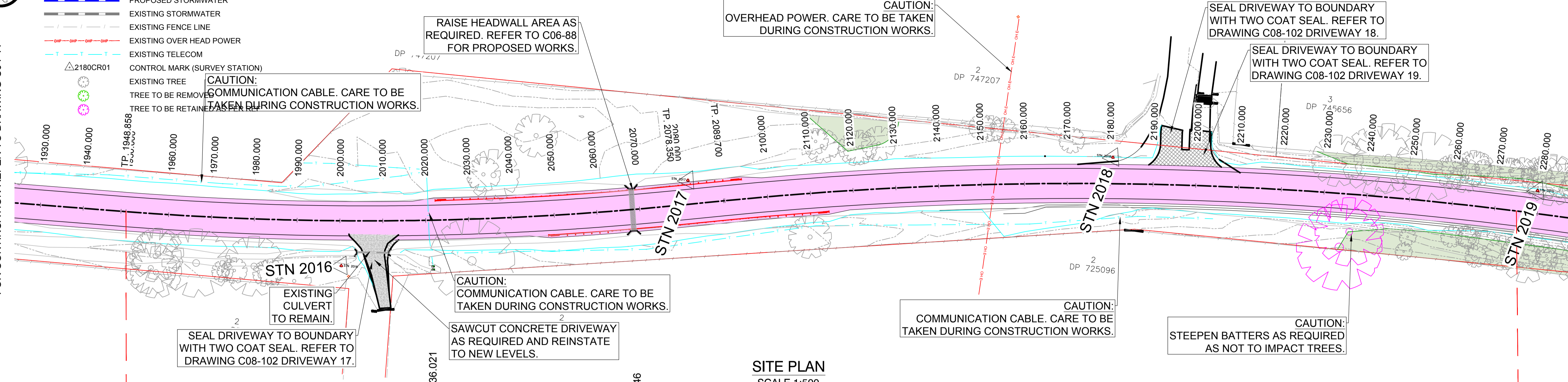


**LEGEND**

- 29.0 --- CONTOURS - EXISTING
- - - 29.0 - - - CONTOURS - PROPOSED
- ▬ NEW ROAD PAVEMENT
- ▬ DRIVEWAY RECONSTRUCTION
- ▬ PROPOSED GUARD RAIL
- ▬ PROPOSED STORMWATER
- ▬ EXISTING STORMWATER
- ▬ EXISTING FENCE LINE
- ▬ EXISTING OVER HEAD POWER
- ▬ EXISTING TELECOM
- △ 2180CR01 CONTROL MARK (SURVEY STATION)
- EXISTING TREE
- TREE TO BE REMOVED
- TREE TO BE RETAINED

FOR CONTINUATION REFER TO DRAWING C04-11

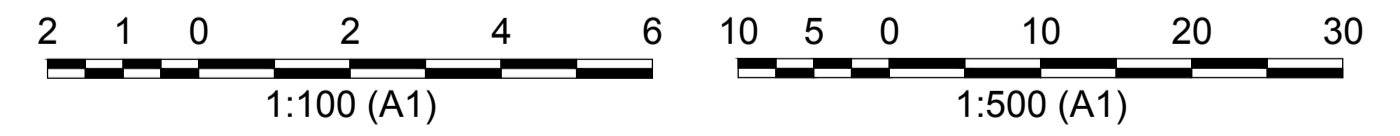
FOR CONTINUATION REFER TO DRAWING C04-13



**SITE PLAN**  
SCALE 1:500

CHAINAGE	EXISTING	DESIGN	DEPTH	SUPER RIGHT SIDE	SUPER LEFT SIDE
1950.000	137.29	137.616	+0.329	4.00%	-4.00%
1955.000	137.27	137.595	+0.323	4.25%	-4.25%
1960.000	137.27	137.594	+0.322	4.26%	-4.26%
1965.000	137.26	137.582	+0.314	4.50%	-4.50%
1970.000	137.26	137.570	+0.306	4.36%	-4.43%
1975.000	137.24	137.558	+0.303	4.21%	-4.36%
1980.000	137.24	137.546	+0.301	4.07%	-4.29%
1985.000	137.23	137.534	+0.306	3.93%	-4.21%
1990.000	137.21	137.522	+0.307	3.79%	-4.14%
1995.000	137.21	137.509	+0.299	3.64%	-4.07%
2000.000	137.20	137.497	+0.299	3.50%	-4.00%
2005.000	137.20	137.485	+0.292	3.36%	-3.93%
2010.000	137.18	137.471	+0.287	3.21%	-3.86%
2015.000	137.16	137.455	+0.293	3.07%	-3.79%
2020.000	137.13	137.436	+0.305	2.93%	-3.72%
2025.000	137.13	137.435	+0.306	2.93%	-3.71%
2030.000	137.08	137.413	+0.332	2.79%	-3.64%
2035.000	137.04	137.387	+0.347	2.64%	-3.57%
2040.000	137.03	137.360	+0.332	2.51%	-3.50%
2045.000	137.03	137.359	+0.331	2.50%	-3.50%
2050.000	137.03	137.359	+0.331	2.50%	-3.50%
2055.000	137.01	137.331	+0.317	2.36%	-3.43%
2060.000	137.01	137.331	+0.317	2.36%	-3.43%
2065.000	137.01	137.308	+0.301	2.21%	-3.36%
2070.000	137.00	137.289	+0.290	2.07%	-3.29%
2075.000	136.98	137.274	+0.290	2.07%	-3.29%
2080.000	136.97	137.264	+0.292	1.79%	-3.14%
2085.000	136.96	137.258	+0.296	1.64%	-3.07%
2090.000	136.96	137.258	+0.296	1.64%	-3.07%
2095.000	136.95	137.254	+0.302	1.50%	-3.00%
2100.000	136.94	137.250	+0.313	0.75%	-3.00%
2105.000	136.92	137.246	+0.323	0.00%	-3.00%
2110.000	136.91	137.243	+0.329	-1.00%	-3.00%
2115.000	136.91	137.243	+0.329	-1.00%	-3.00%
2120.000	136.90	137.243	+0.332	-1.50%	-3.00%
2125.000	136.90	137.238	+0.335	-3.00%	-3.00%
2130.000	136.90	137.234	+0.337	-3.00%	-1.59%
2135.000	136.90	137.234	+0.338	-3.00%	-1.50%
2140.000	136.90	137.230	+0.333	-3.00%	0.00%
2145.000	136.90	137.226	+0.326	-3.00%	1.50%
2150.000	136.91	137.222	+0.315	-3.00%	3.00%
2155.000	136.91	137.218	+0.312	-3.00%	3.00%
2160.000	136.90	137.214	+0.316	-3.00%	3.00%
2165.000	136.89	137.211	+0.319	-3.00%	3.00%
2170.000	136.89	137.210	+0.319	-3.00%	3.00%
2175.000	136.89	137.204	+0.317	-3.00%	3.00%
2180.000	136.88	137.199	+0.318	-3.00%	3.00%
2185.000	136.88	137.193	+0.318	-3.00%	3.00%
2190.000	136.87	137.187	+0.321	-3.00%	3.00%
2195.000	136.84	137.182	+0.340	-3.00%	3.00%
2200.000	136.84	137.181	+0.344	-3.00%	3.00%
2205.000	136.82	137.176	+0.359	-3.00%	3.00%
2210.000	136.80	137.167	+0.367	-3.00%	3.00%
2215.000	136.78	137.156	+0.374	-3.00%	3.00%
2220.000	136.77	137.142	+0.367	-3.00%	3.00%
2225.000	136.77	137.126	+0.357	-3.00%	3.00%
2230.000	136.76	137.108	+0.343	-3.00%	3.00%
2235.000	136.76	137.087	+0.325	-3.00%	3.00%
2240.000	136.76	137.064	+0.307	-3.00%	3.00%
2245.000	136.74	137.039	+0.298	-3.00%	3.00%
2250.000	136.74	137.033	+0.296	-3.00%	3.00%
2255.000	136.72	137.011	+0.290	-3.00%	3.00%
2260.000	136.69	136.980	+0.287	-3.00%	3.00%
2265.000	136.66	136.948	+0.288	-3.00%	3.00%
2270.000	136.61	136.912	+0.303	-3.00%	3.00%
2275.000	136.56	136.875	+0.317	-3.00%	3.00%
2280.000	136.49	136.835	+0.340	-3.00%	3.00%
2285.000	136.43	136.792	+0.363	-3.00%	3.00%
2290.000	136.37	136.748	+0.379	-3.00%	3.00%
2295.000	136.31	136.700	+0.389	-3.00%	3.00%
2300.000	136.30	136.689	+0.385	-3.00%	3.00%
2305.000	136.28	136.652	+0.369	-3.00%	3.00%
2310.000	136.25	136.603	+0.349	-3.00%	3.00%
2315.000	136.22	136.554	+0.330	-3.00%	3.00%
2320.000	136.19	136.505	+0.312	-3.00%	3.00%
2325.000	136.15	136.456	+0.303	-3.00%	3.00%
2330.000	136.11	136.407	+0.295	-3.00%	3.00%
2335.000	136.06	136.358	+0.297	-3.00%	3.00%
2340.000	136.01	136.309	+0.300	-3.00%	3.00%
2345.000	135.99	136.295	+0.301	-3.00%	3.00%

ROAD No.  
Ch 1950.000 to Ch 2276.448  
H=1:500 V=1:100  
**SANDY CREEK ROAD**



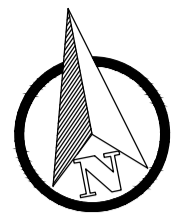
REV	ISSUE FOR CONSTRUCTION	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
	REVISION DETAILS		

**AL CIVIL DESIGN**  
AL Civil Design  
5 Yew Street  
GILLIESTON HEIGHTS NSW 2321  
0466 253 917

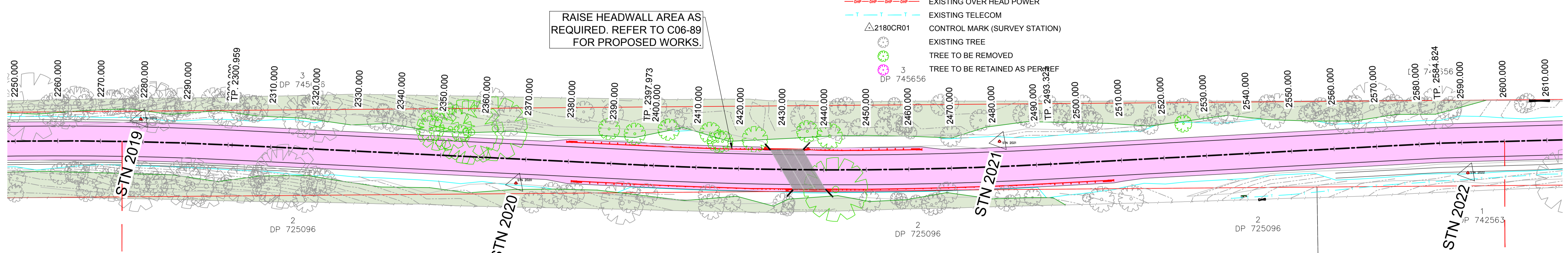
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C. Any inaccuracies or other faults with information or data sourced from a Third Party.  
D. AL Civil Design relying on surface indicators that are incorrect or inaccurate.  
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SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M	PROJECT:	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWN:	M.M	DRAWING TITLE:	PLAN & LONGITUDINAL SECTION SHEET 07 OF 09
CHECKED:	M.M	DATE:	11.08.2023
DATE:	11.08.2023	APPROVED:	M.M
LONGITUDINAL SECTION:	HORIZ. 1:500 VERT. 1:100	CROSS SECTION:	HORIZ. N/A VERT. N/A

PROJECT No: **AL22077**  
DWG No: **C04-12**  
**CONSTRUCTION**  
SHEET 12 OF 116 SHEETS  
REVISION: **1**



FOR CONTINUATION REFER TO DRAWING C04-12



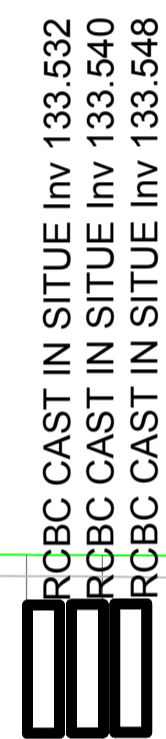
FOR CONTINUATION REFER TO DRAWING C04-14

LEGEND

- 29.0 --- CONTOURS - EXISTING
--- 29.0 --- CONTOURS - PROPOSED
[Symbol] NEW ROAD PAVEMENT
[Symbol] DRIVEWAY RECONSTRUCTION
[Symbol] PROPOSED GUARD RAIL
[Symbol] PROPOSED STORMWATER
[Symbol] EXISTING STORMWATER
[Symbol] EXISTING FENCE LINE
[Symbol] EXISTING OVER HEAD POWER
[Symbol] EXISTING TELECOM
[Symbol] CONTROL MARK (SURVEY STATION)
[Symbol] EXISTING TREE
[Symbol] TREE TO BE REMOVED
[Symbol] TREE TO BE RETAINED AS PER REF

RAISE HEADWALL AREA AS REQUIRED. REFER TO C06-89 FOR PROPOSED WORKS.

SITE PLAN SCALE 1:500



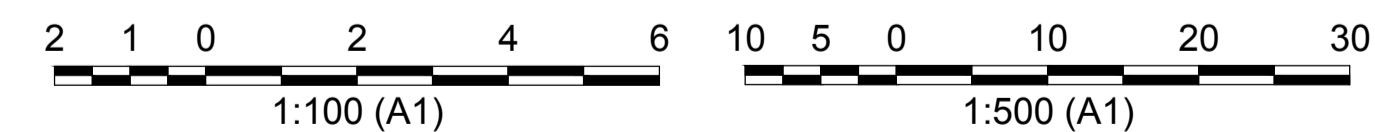
RCBC CAST IN SITU Inv 133.532
RCBC CAST IN SITU Inv 133.540
RCBC CAST IN SITU Inv 133.548

Sag Ch 2473.961 RL 135.615

Table with columns: CHAINAGE, EXISTING, DESIGN, DEPTH, SUPER RIGHT SIDE, SUPER LEFT SIDE, and R.L. 129.300. It contains detailed elevation and slope data for the road project.

ROAD No. Ch 2276.448 to Ch 2605.000
H=1:500 V=1:100

SANDY CREEK ROAD



Revision table with columns: REV, ISSUE FOR CONSTRUCTION, M.M, DATE. Includes entries for construction and preliminary issue.

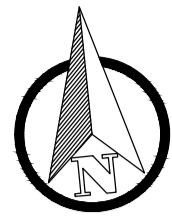
AL CIVIL DESIGN logo and contact information: 5 Yew Street, GILLRESTON HEIGHTS NSW 2321, 0466 253 917.

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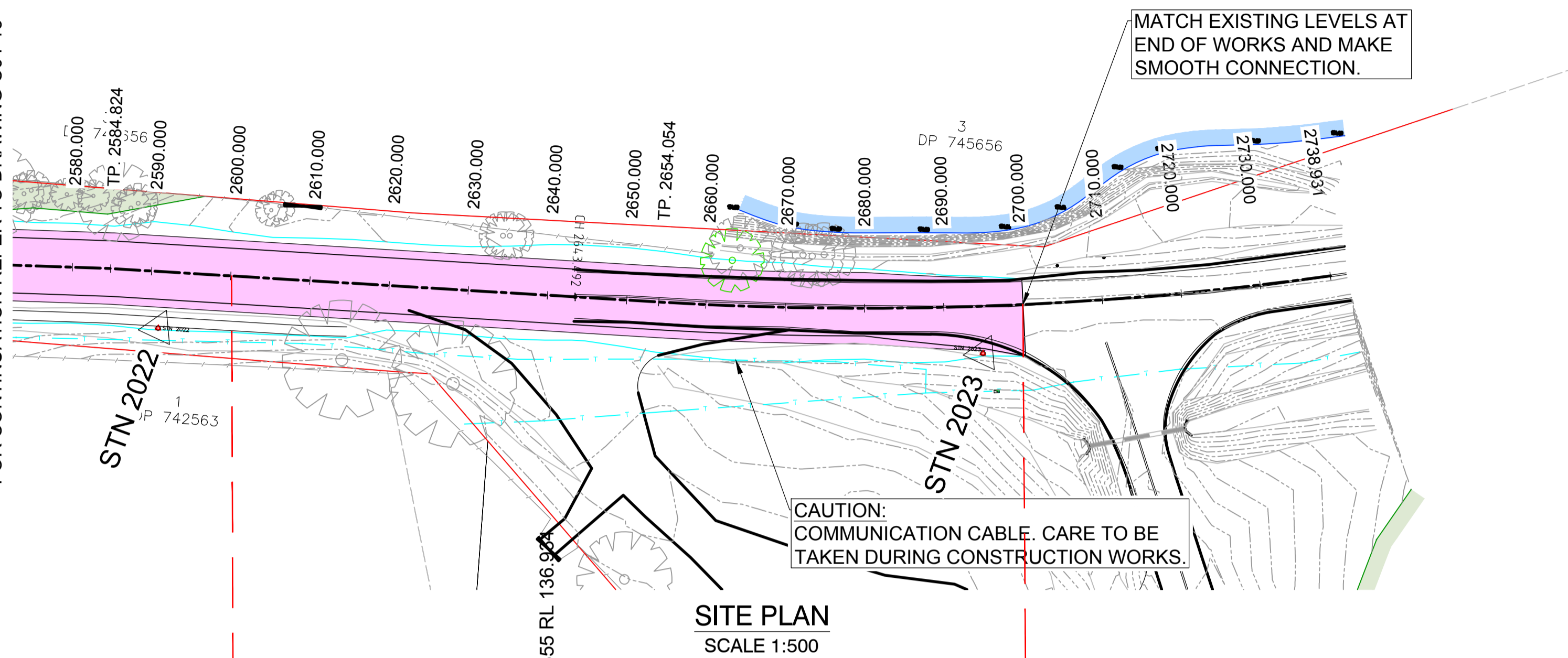
Project information table including SURVEY (DELFS LASCELLES), DESIGN (M.M), DRAWN (M.M), CHECKED (M.M), DATE (11.08.2023), APPROVED (M.M), CLIENT (CESSNOCK CITY COUNCIL), and PLAN (LONGITUDINAL SECTION, CROSS SECTION).

PROJECT LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG. DRAWING TITLE PLAN & LONGITUDINAL SECTION SHEET 08 OF 09. SHEET 13 OF 116 SHEETS.

Project details table with columns: PROJECT No (AL22077), DWG No (C04-13), PROJECT No (AL22077), REVISION (1), and a graphic scale bar for 1:500 (A1).



FOR CONTINUATION REFER TO DRAWING C04-13



**LEGEND**

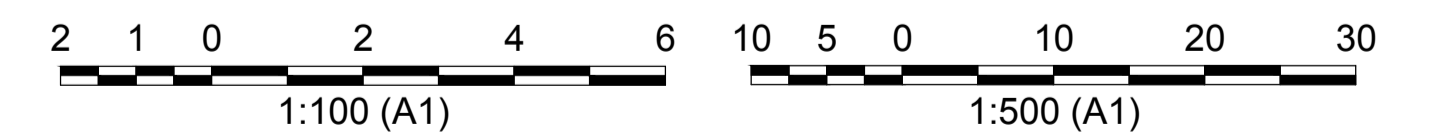
- 29.0 --- CONTOURS - EXISTING
- - - 29.0 - - - CONTOURS - PROPOSED
- ▬ NEW ROAD PAVEMENT
- ▬ DRIVEWAY RECONSTRUCTION
- ▬ PROPOSED GUARD RAIL
- ▬ PROPOSED STORMWATER
- ▬ EXISTING STORMWATER
- ▬ EXISTING FENCE LINE
- ▬ EXISTING OVER HEAD POWER
- ▬ EXISTING TELECOM
- △ 2180CR01 CONTROL MARK (SURVEY STATION)
- ⊙ EXISTING TREE
- ⊙ TREE TO BE REMOVED
- ⊙ TREE TO BE RETAINED AS PER REF

**SITE PLAN**  
SCALE 1:500

CHAINAGE	EXISTING	DESIGN	DEPTH	SUPER RIGHT SIDE	SUPER LEFT SIDE
2605.000	136.47	136.740	+0.270	-2.57%	-3.25%
2610.000	136.52	136.785	+0.268	-2.14%	-3.00%
2612.810	136.54	136.808	+0.264	-1.90%	-3.00%
2613.398	136.55	136.812	+0.263	-1.85%	-3.00%
2615.000	136.56	136.824	+0.260	-1.71%	-3.00%
2620.000	136.60	136.857	+0.253	-1.29%	-3.00%
2625.000	136.64	136.884	+0.240	-0.86%	-3.00%
2630.000	136.68	136.906	+0.231	-0.43%	-3.00%
2635.000	136.71	136.921	+0.216	0.00%	-3.00%
2640.000	136.72	136.930	+0.210	0.50%	-3.00%
2643.398	136.73	136.933	+0.202	0.84%	-3.00%
2645.000	136.73	136.934	+0.209	1.00%	-3.00%
2645.355	136.72	136.934	+0.210	1.04%	-3.00%
2650.000	136.71	136.931	+0.222	1.50%	-3.00%
2654.054	136.70	136.925	+0.230	1.91%	-3.00%
2655.000	136.69	136.923	+0.231	2.00%	-3.00%
2660.000	136.67	136.908	+0.234	2.50%	-3.00%
2665.000	136.67	136.888	+0.220	3.00%	-3.00%
2670.000	136.66	136.861	+0.197	3.00%	-3.83%
2673.398	136.66	136.840	+0.177	3.00%	-4.40%
2675.000	136.66	136.830	+0.168	3.00%	-4.67%
2680.000	136.66	136.796	+0.131	3.00%	-5.50%
2685.000	136.67	136.763	+0.095	2.95%	-6.33%
2690.000	136.67	136.730	+0.060	2.90%	-7.17%
2695.000	136.67	136.696	+0.026	2.85%	-8.01%
2700.000	136.66	136.663	+0.000	2.22%	-8.84%
2705.000	136.65			0.00%	0.00%
2710.000	136.64			0.00%	0.00%
2715.000	136.63			0.00%	0.00%
2720.000	136.61			0.00%	0.00%
2725.000	136.58			0.00%	0.00%
2730.000	136.57			0.00%	0.00%
2735.000	136.56			0.00%	0.00%
2739.931	136.55			0.00%	0.00%

ROAD No.  
Ch 2605.000 to Ch 2738.931  
H=1:500 V=1:100

SANDY CREEK ROAD



REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

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AL Civil Design  
5 Yew Street  
GILLJESTON HEIGHTS NSW 2321  
0466 253 917

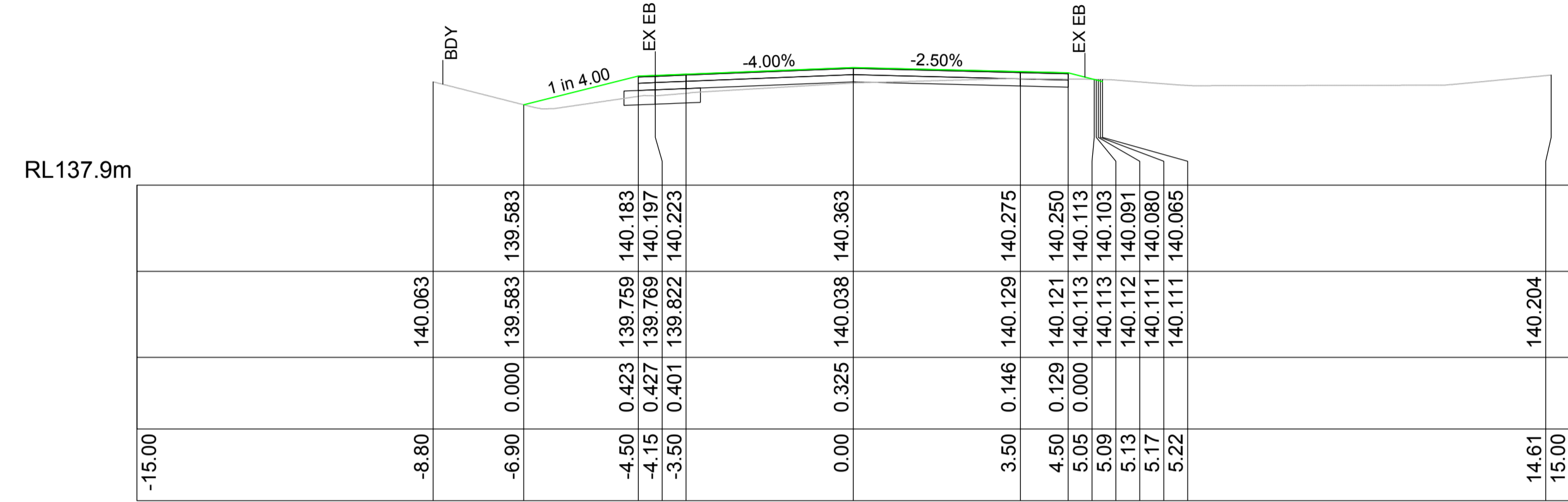
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SURVEY: DELFS LASCELLES	CLIENT: CESSNOCK CITY COUNCIL
DESIGN: M.M	
DRAWN: M.M	
CHECKED: M.M	
DATE: 11.08.2023	PLAN: LONGITUDINAL SECTION CROSS SECTION
APPROVED: M.M	1:500 (A1) HORIZ. 1:500 HORIZ. N/A VERT. 1:100 VERT. N/A

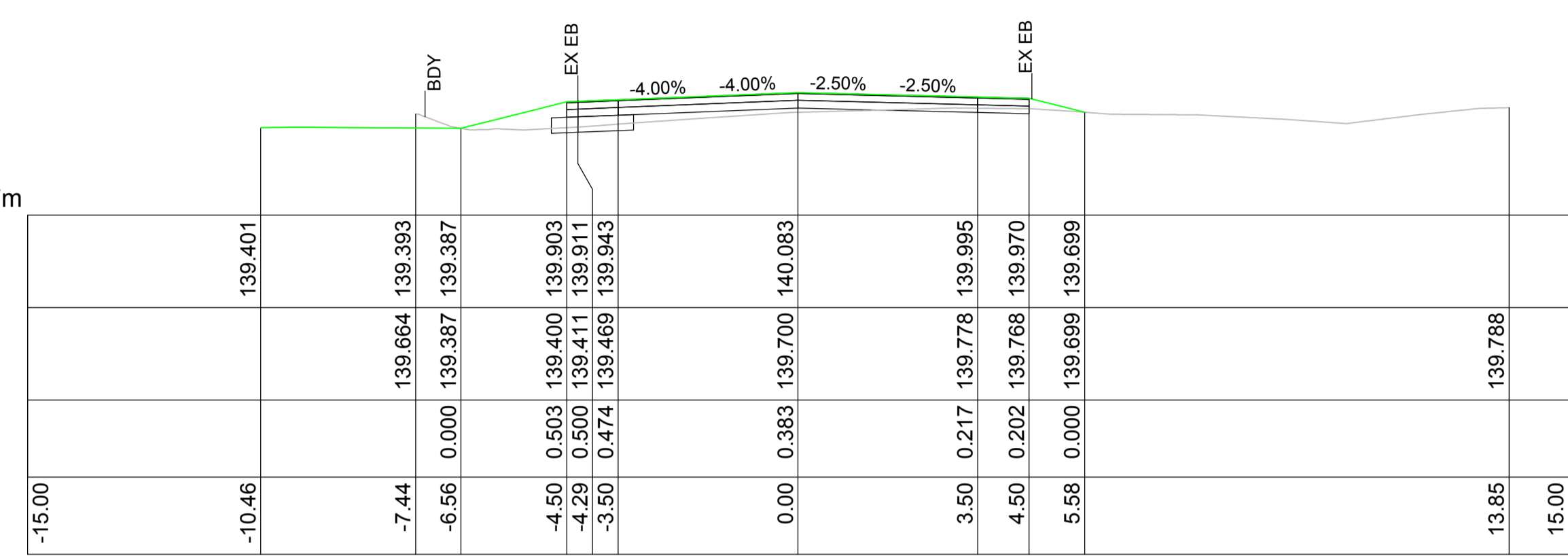
PROJECT LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG  
DRAWING TITLE PLAN & LONGITUDINAL SECTION SHEET 09 OF 09  
SHEET 14 OF 116 SHEETS

PROJECT No AL22077	REVISION 1
DWG No C04-14	
<b>CONSTRUCTION</b>	
10 5 0 10 20 30 1:500 (A1)	

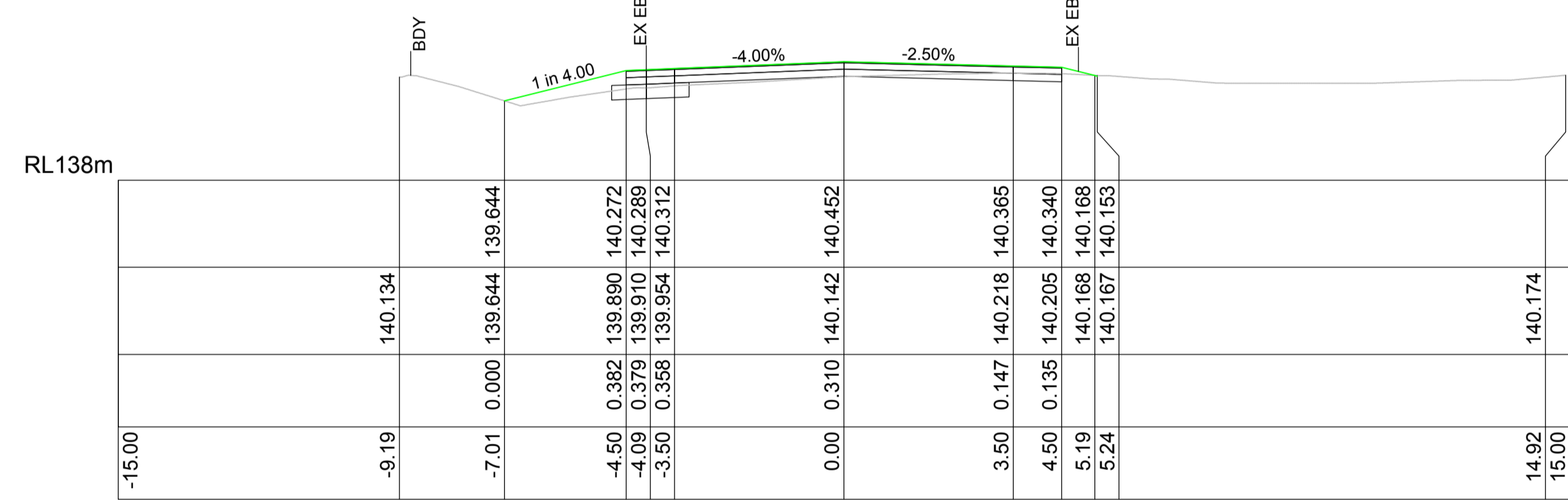




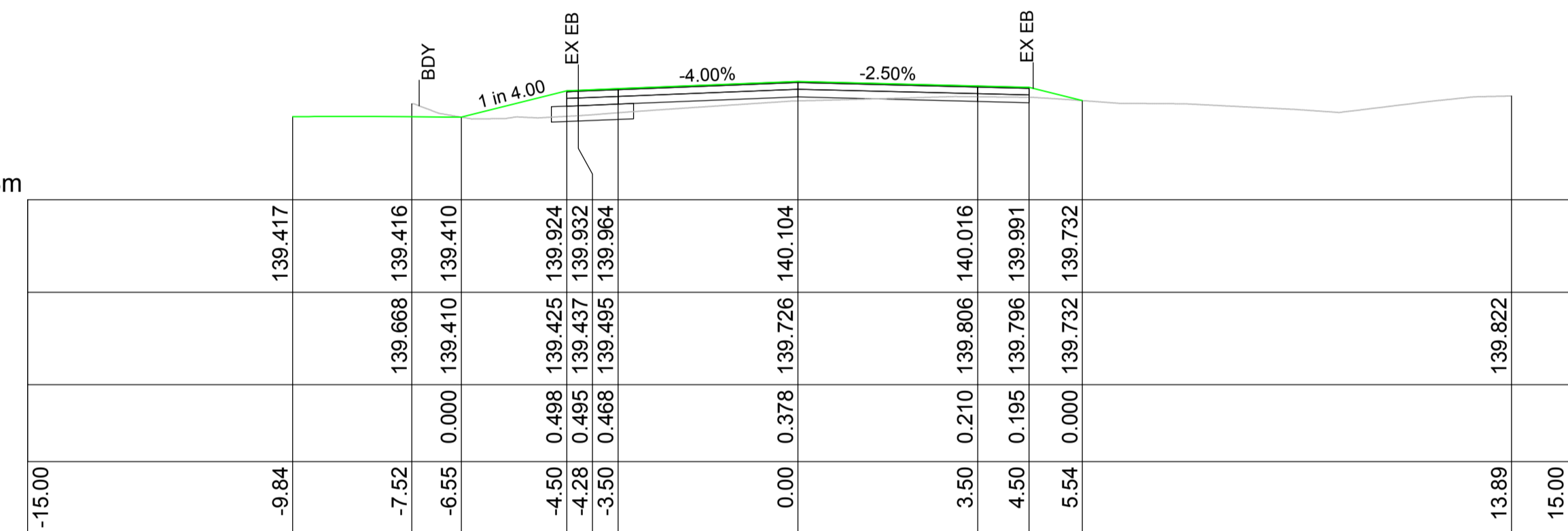
CH 155.00 m  
SANDY CREEK ROAD



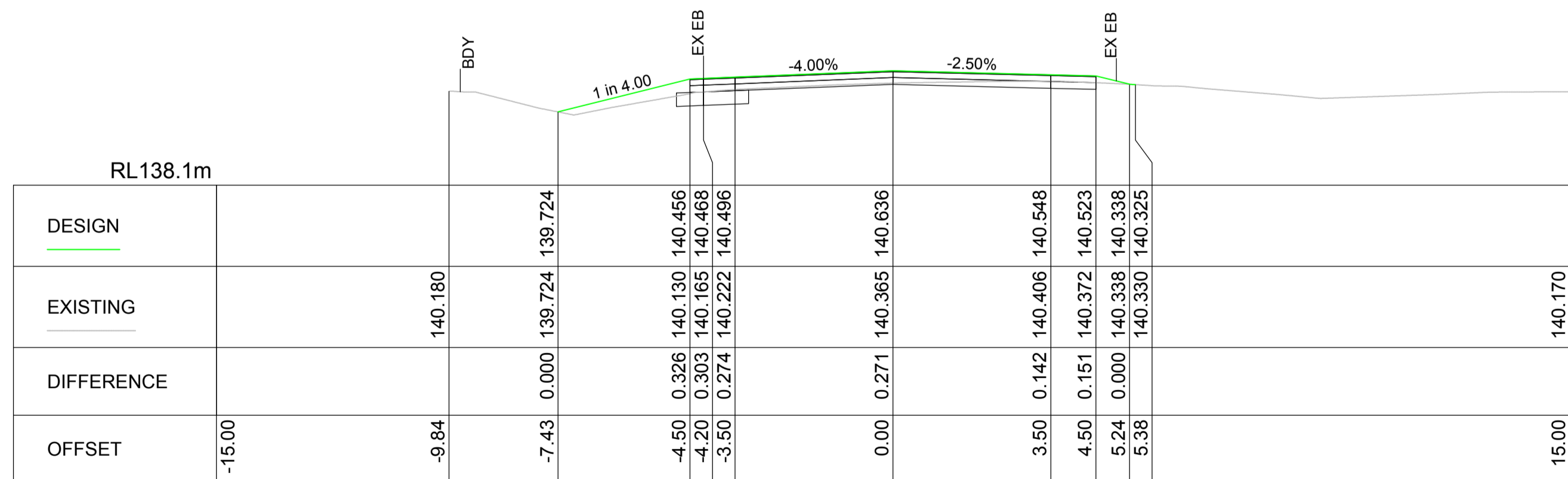
CH 171.24 m  
SANDY CREEK ROAD



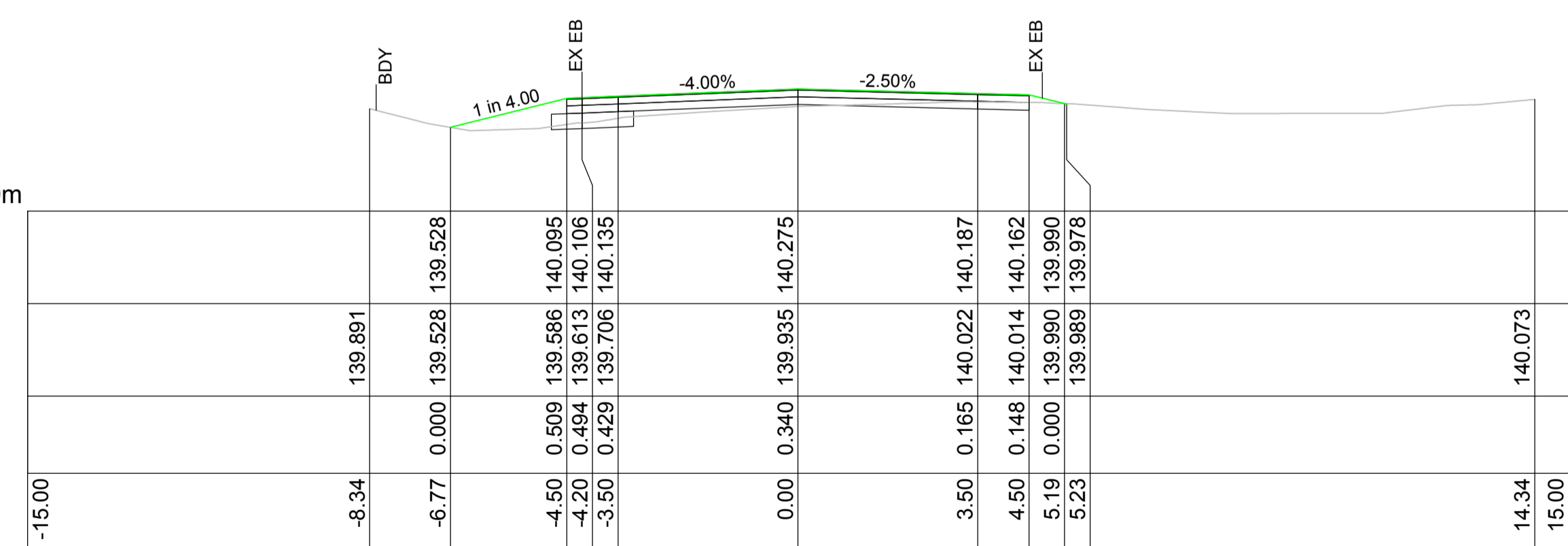
CH 150.00 m  
SANDY CREEK ROAD



CH 170.00 m  
SANDY CREEK ROAD



CH 140.00 m  
SANDY CREEK ROAD



CH 160.00 m  
SANDY CREEK ROAD

DESIGN													
EXISTING		140.180	139.724	140.456	140.468	140.486	140.636	140.548	140.523	140.398	140.325	140.170	
DIFFERENCE			0.000	0.326	0.303	0.274	0.271	0.142	0.151	0.000	0.000	0.000	
OFFSET	-15.00	-9.84	-7.43	-4.50	-4.20	-3.50	0.00	3.50	4.50	5.24	5.38	14.34	15.00

REV	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE

AL Civil Design  
5 Yew Street  
GILLIESTON HEIGHTS NSW 2321  
0466 253 917

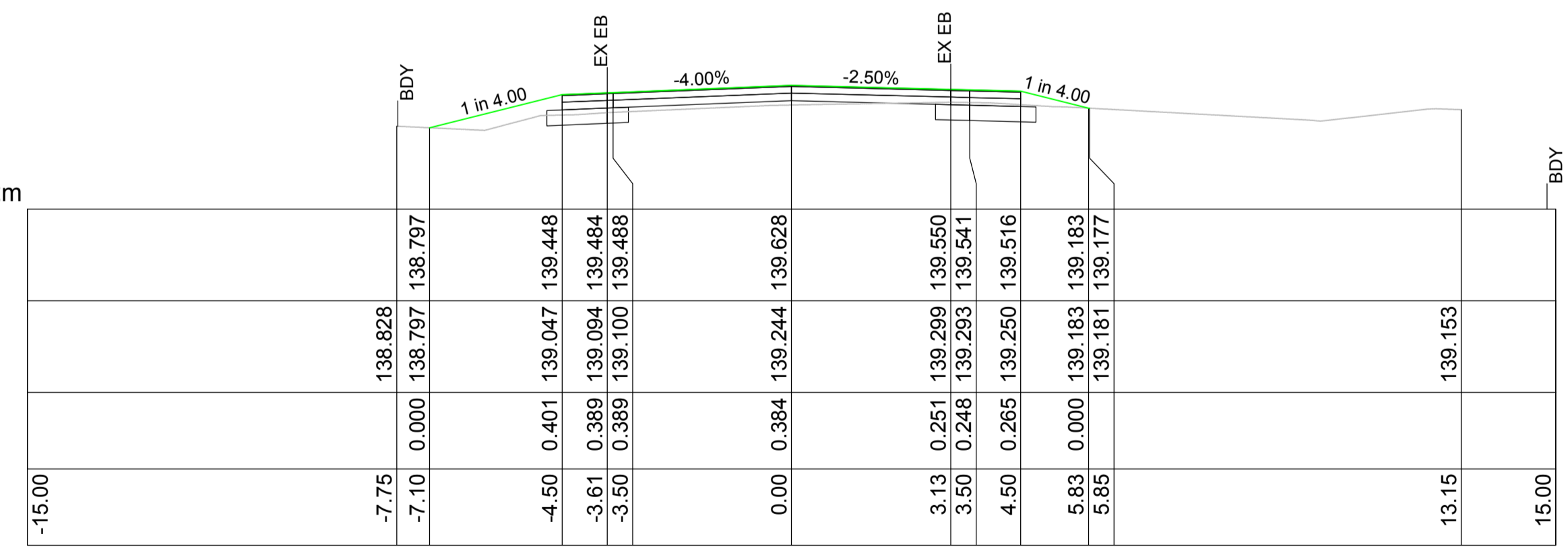
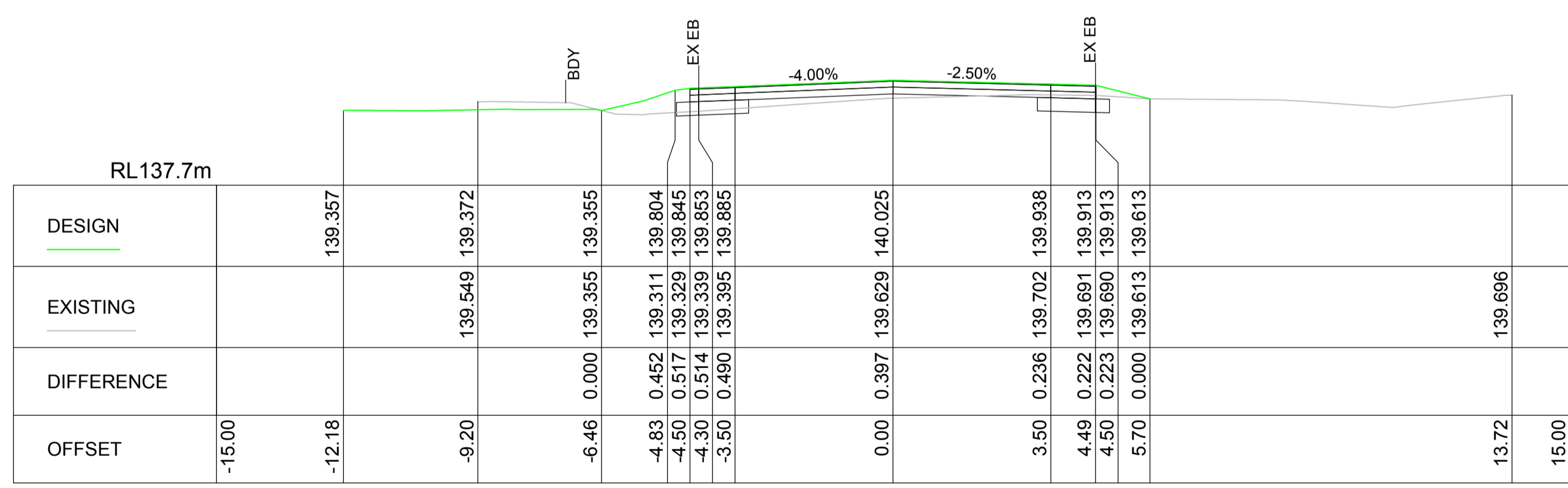
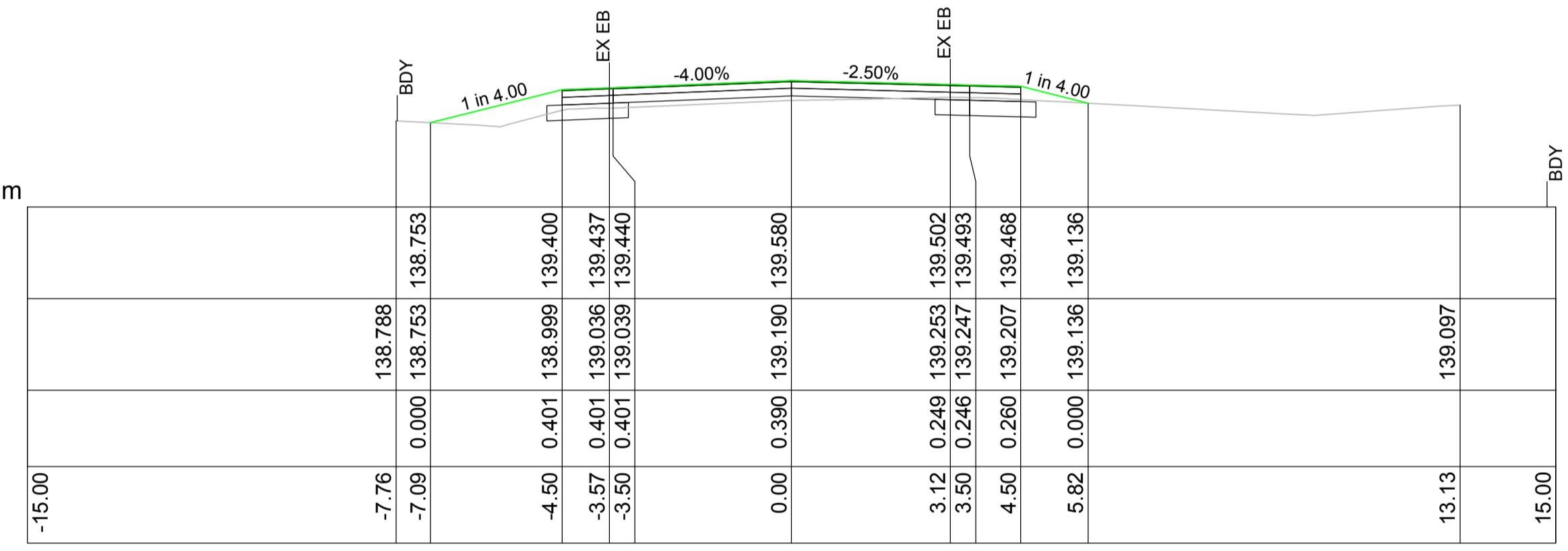
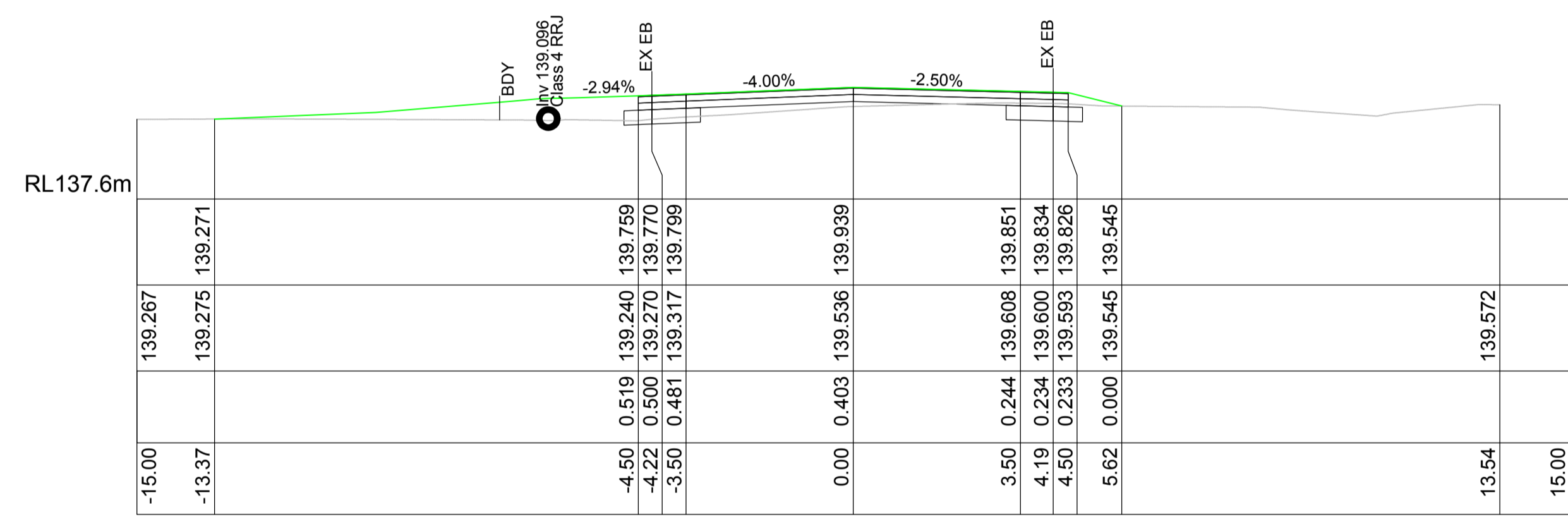
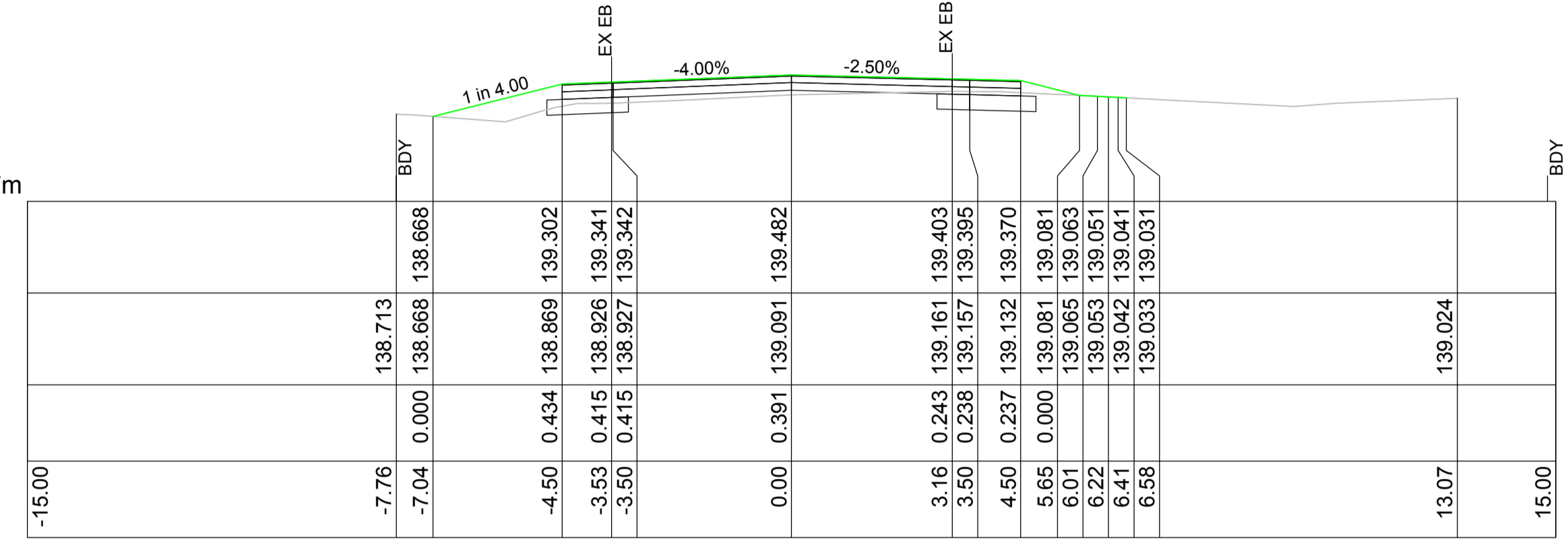
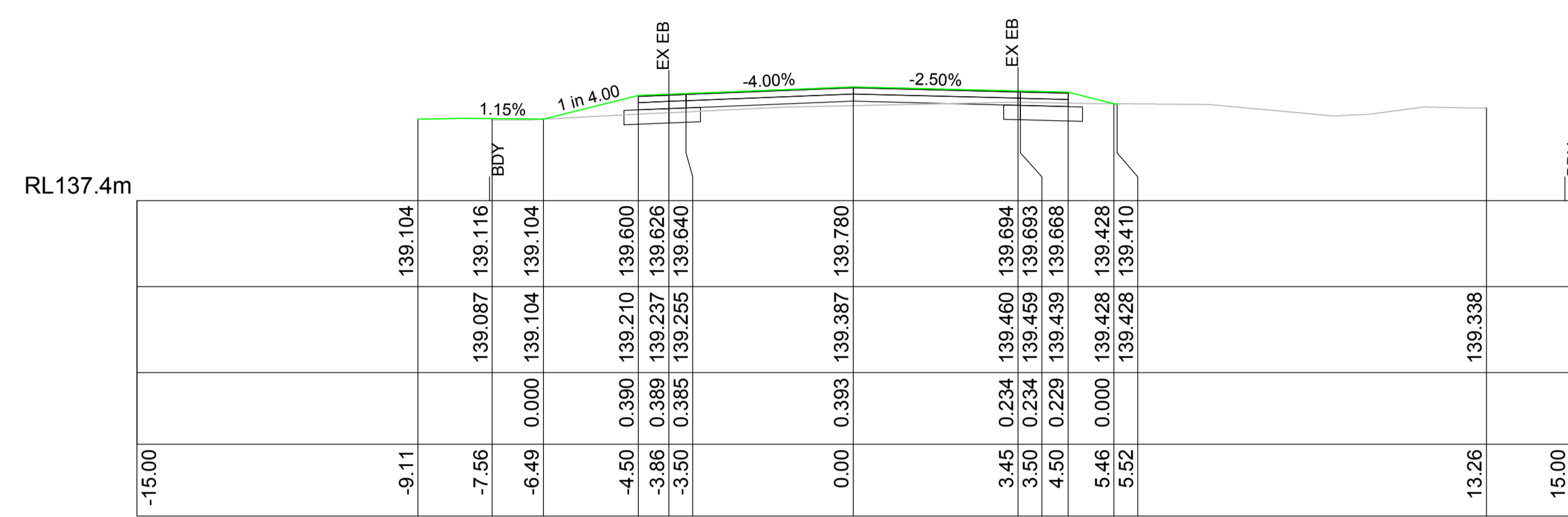
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SURVEY:	DELFS LASCELLES	CLIENT	CESSNOCK CITY COUNCIL
DESIGN:	M.M	PROJECT	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWN:	M.M	DRAWING TITLE	CROSS SECTIONS SHEET 02 OF 72
CHECKED:	M.M	SHEET	16 OF 116 SHEETS
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION CROSS SECTION
APPROVED:	M.M	1:100 (A1)	HORIZ. N/A HORIZ. 1:100 VERT. N/A VERT. 1:100

PROJECT No	AL22077	REVISION	1
DWG No	C05-16		
<b>CONSTRUCTION</b>			
SHEET 16 OF 116 SHEETS			
1:100 (A1)			

PROJECT No	AL22077	REVISION	1
DWG No	C05-16		
<b>CONSTRUCTION</b>			
SHEET 16 OF 116 SHEETS			
1:100 (A1)			





DESIGN		139.357	139.372	139.355	139.804	139.845	139.853	139.885	140.025	139.938	139.913	139.613	139.696	15.00
EXISTING			139.549	139.355	139.311	139.329	139.339	139.339	139.339	139.339	139.339	139.339	139.339	15.00
DIFFERENCE														
OFFSET	-15.00	-12.18	-9.20	-6.46	-4.83	-4.50	-4.30	-3.50	0.00	3.50	4.49	5.70	13.72	15.00

REV	ISSUE	DATE	ISSUED BY
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
	REVISION DETAILS		

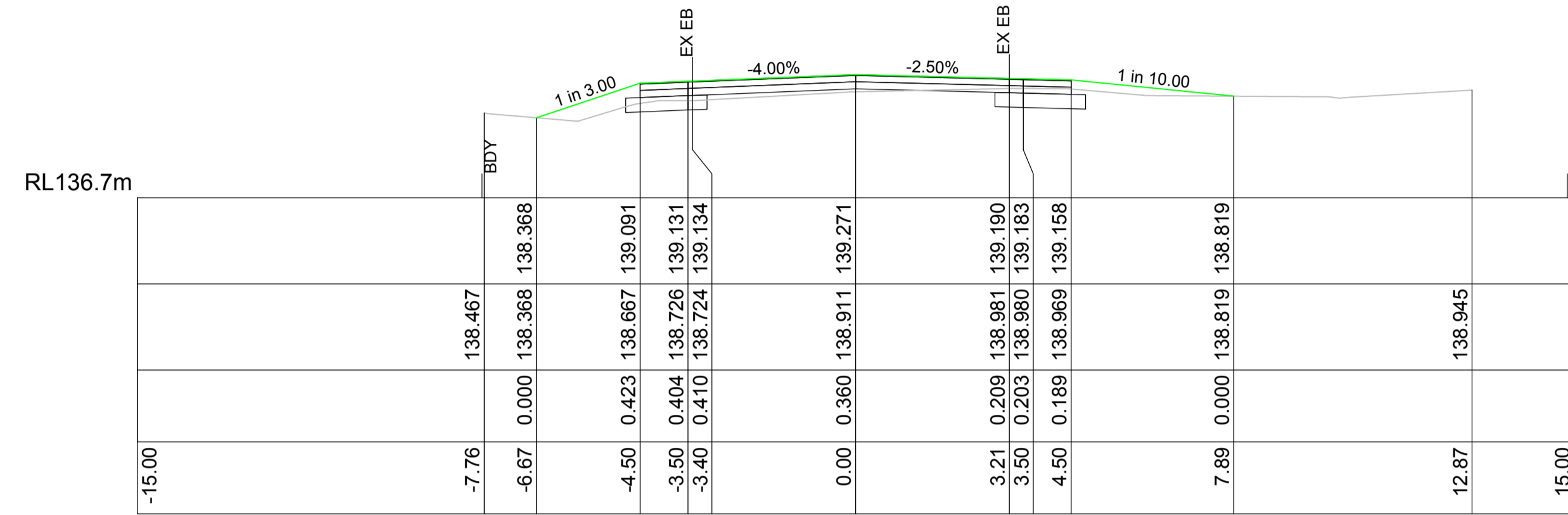


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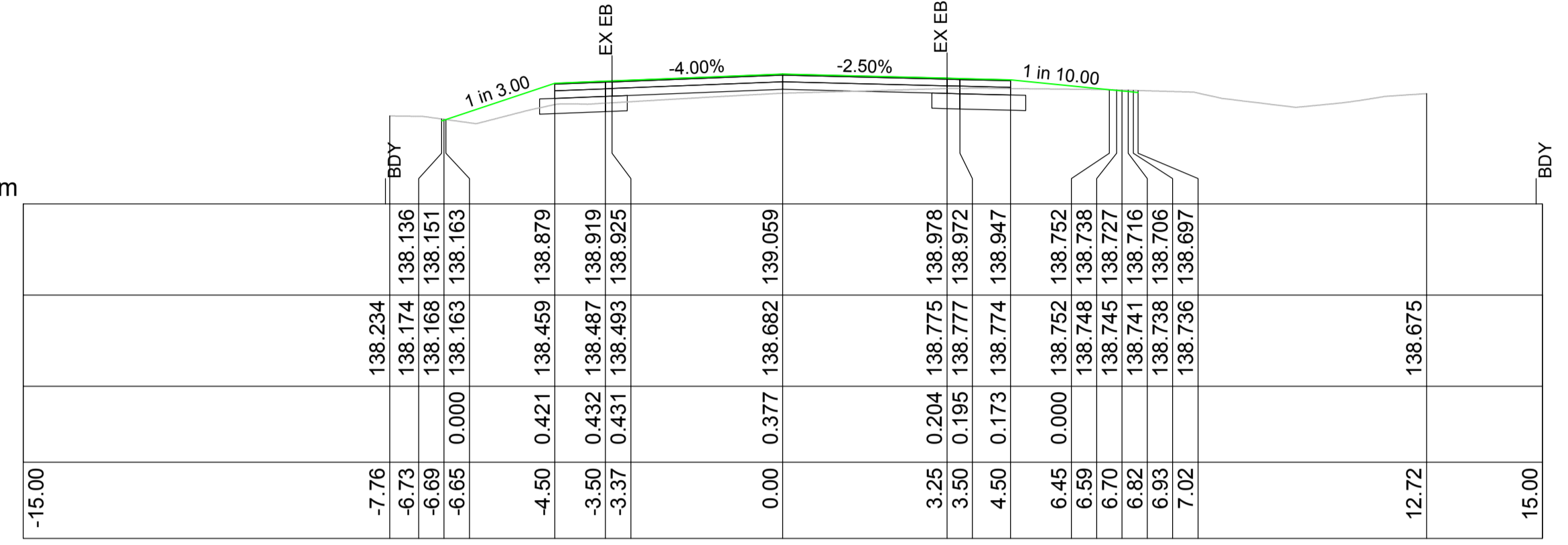
SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M		
DRAWN:	M.M		
CHECKED:	M.M		
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION HORIZ. N/A VERT. N/A
APPROVED:	M.M	CROSS SECTION:	HORIZ. 1:100 VERT. 1:100

PROJECT  
**LOCAL ROAD RENEWAL  
 STAGE 1 & STAGE 2  
 SANDY CREEK ROAD, QUORROBOLONG**  
 DRAWING TITLE  
**CROSS SECTIONS SHEET 03 OF 72**  
**SHEET 17 OF 116 SHEETS**

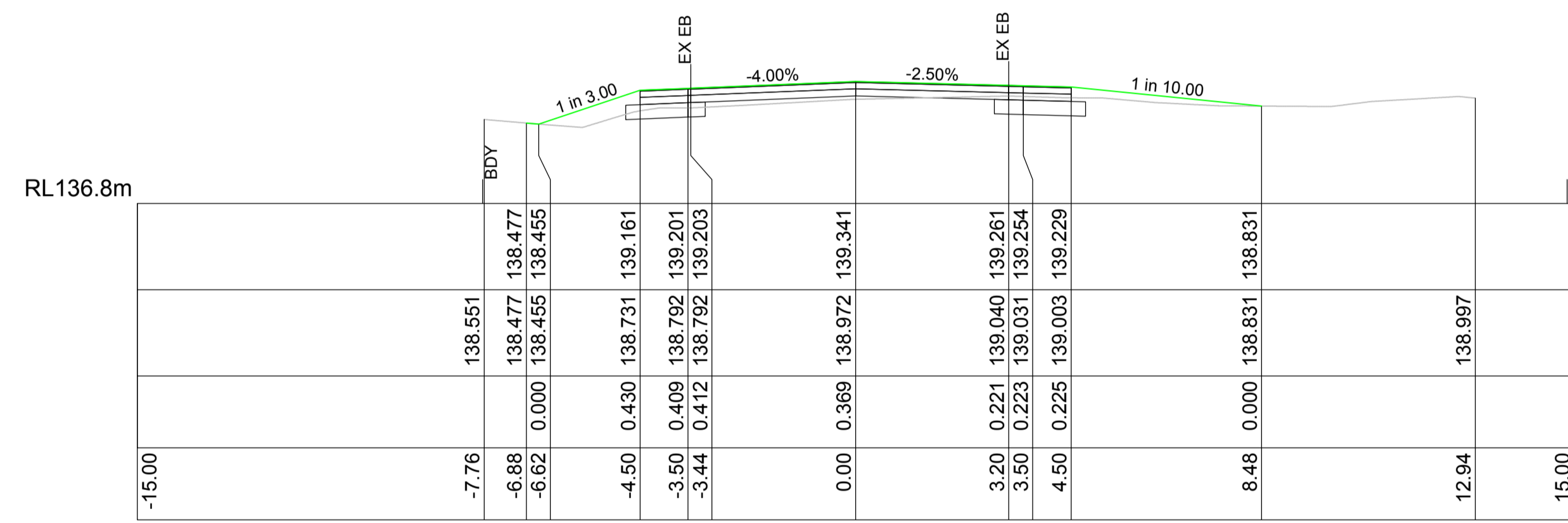
PROJECT No	AL22077	REVISION	1
DWG No	C05-17		
<b>CONSTRUCTION</b>			
2 1 0 2 4 6 1:100 (A1)			



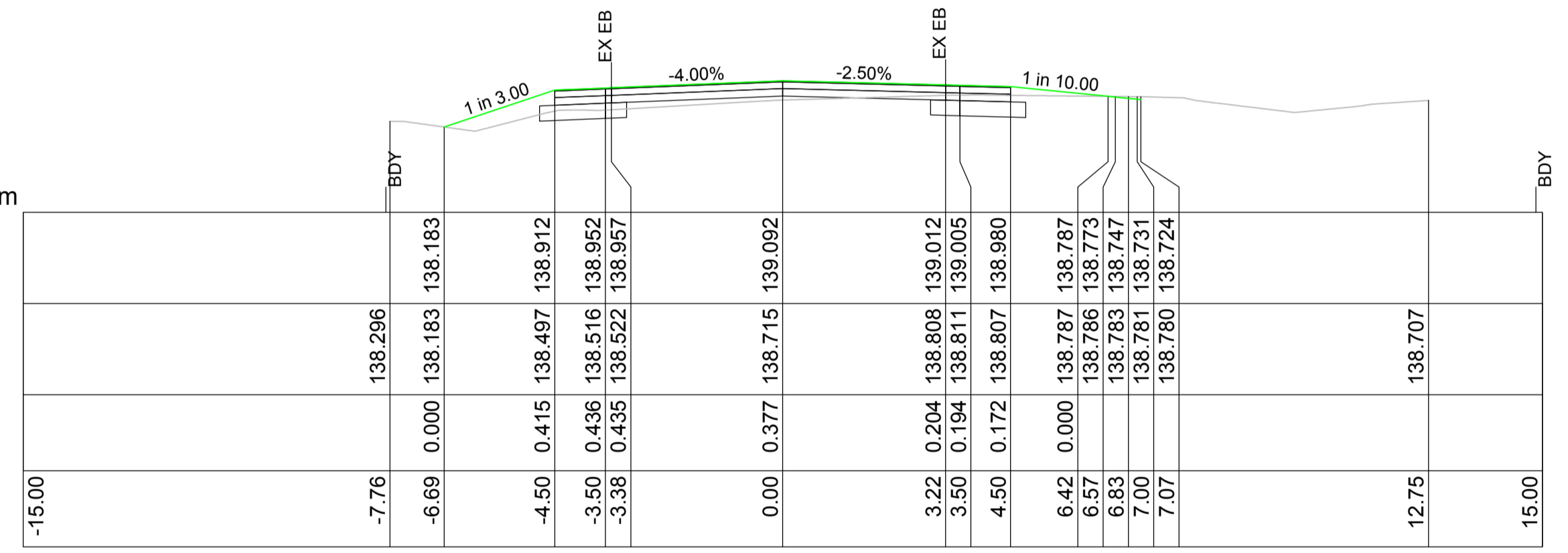
CH 225.00 m SANDY CREEK ROAD



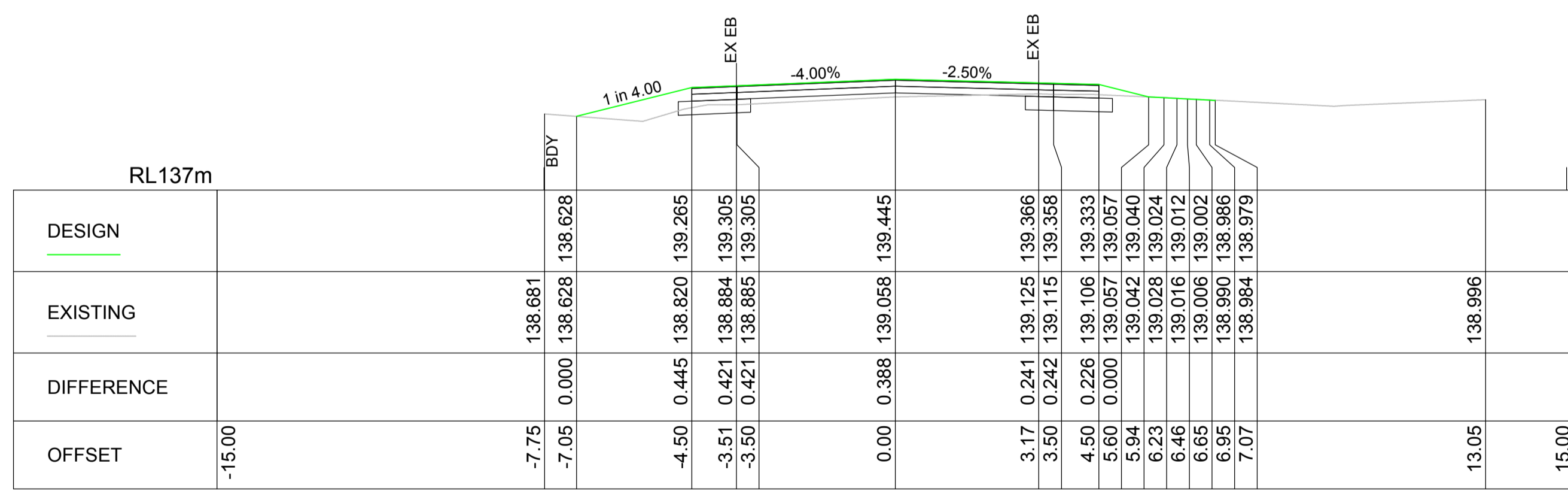
CH 240.00 m SANDY CREEK ROAD



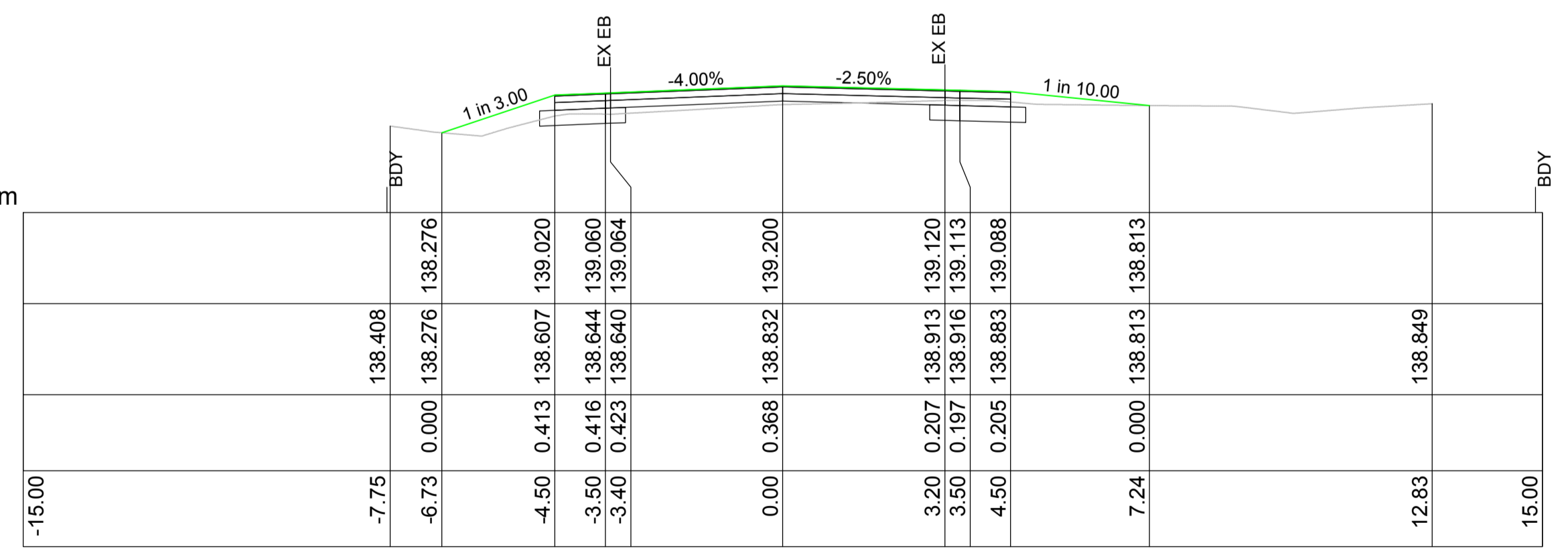
CH 220.00 m SANDY CREEK ROAD



CH 237.66 m SANDY CREEK ROAD



CH 212.62 m SANDY CREEK ROAD



CH 230.00 m SANDY CREEK ROAD

DESIGN	EXISTING	DIFFERENCE	OFFSET
-15.00			
-7.75	138.681		-7.75
-7.05	138.628	138.628	-7.05
-4.50	138.820	139.265	-4.50
-3.51	138.884	139.305	-3.51
-3.50	138.885	139.305	-3.50
0.00	139.058	139.445	0.00
3.17	139.125	139.366	3.17
3.50	139.115	139.358	3.50
4.50	139.106	139.333	4.50
5.60	139.057	139.057	5.60
5.94	139.042	139.040	5.94
6.23	139.028	139.024	6.23
6.46	139.016	139.012	6.46
6.65	139.006	139.002	6.65
6.95	138.990	138.986	6.95
7.07	138.984	138.979	7.07
13.05	138.996		13.05
15.00			15.00

CH 212.62 m SANDY CREEK ROAD

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

AL Civil Design  
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0466 253 917

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SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M		
DRAWN:	M.M		
CHECKED:	M.M		
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION HORIZ. N/A VERT. N/A
APPROVED:	M.M	CROSS SECTION:	HORIZ. 1:100 VERT. 1:100

PROJECT  
**LOCAL ROAD RENEWAL  
STAGE 1 & STAGE 2  
SANDY CREEK ROAD, QUORROBOLONG**

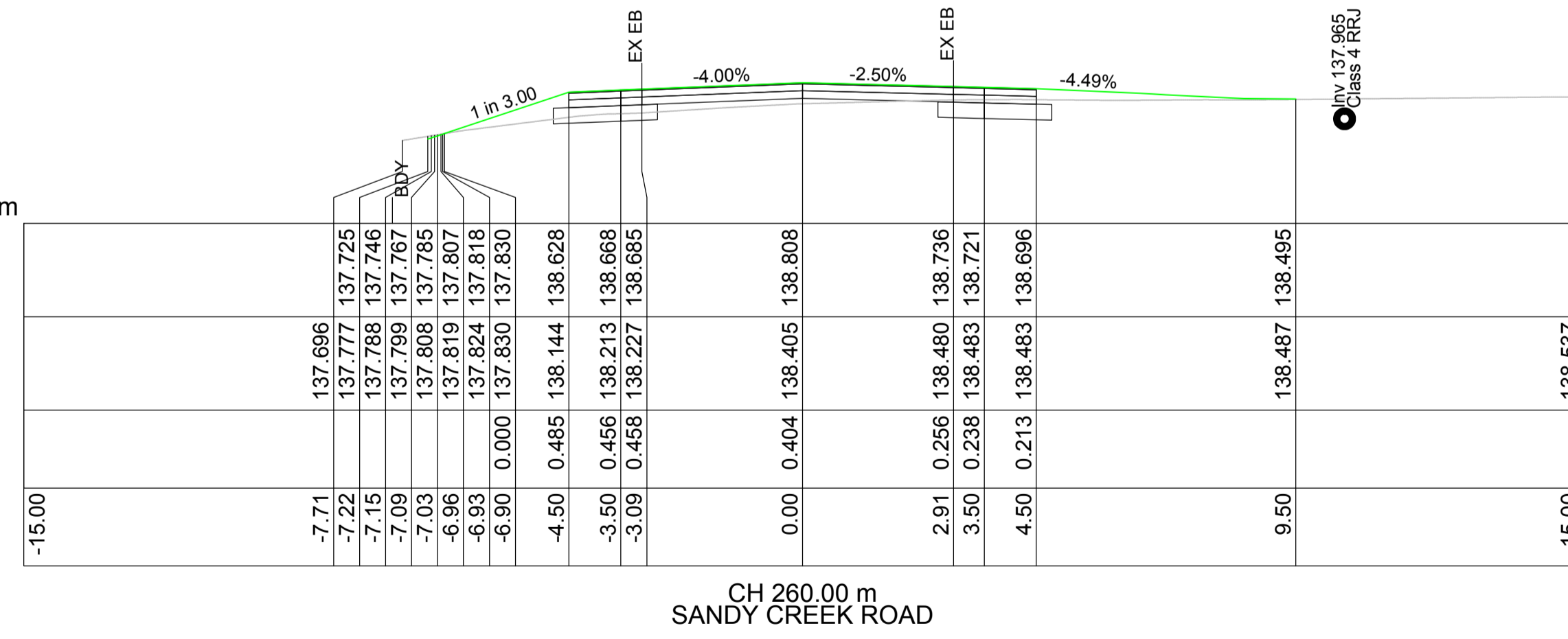
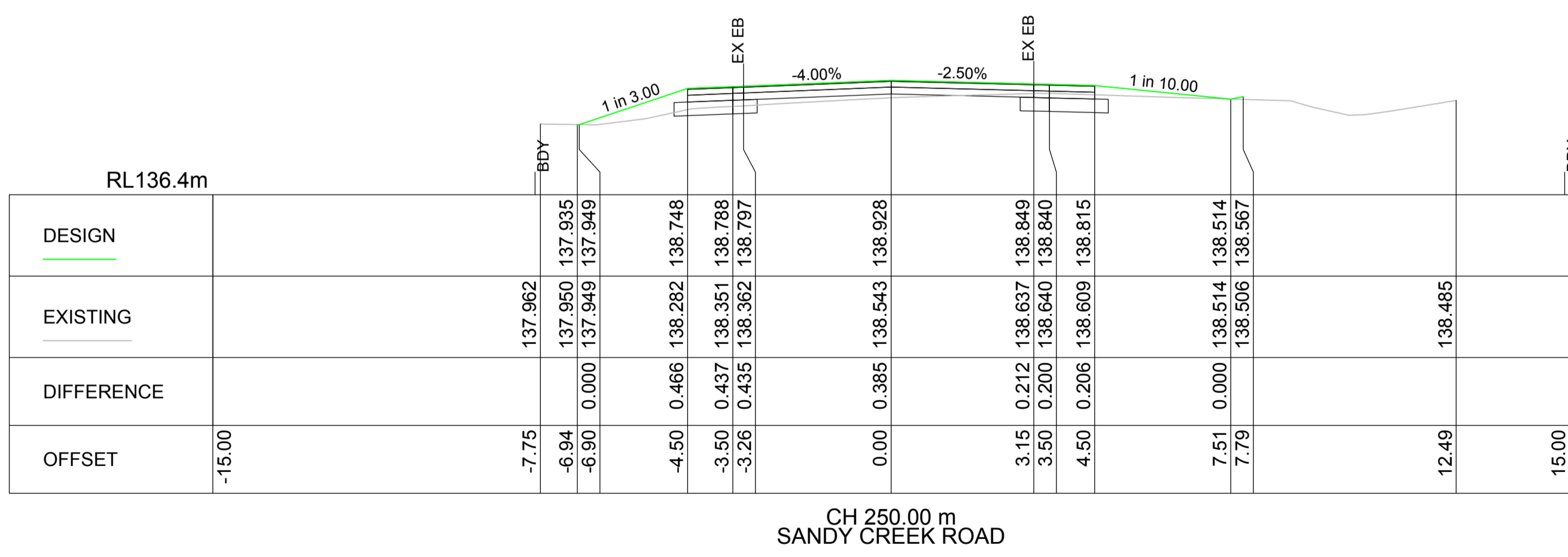
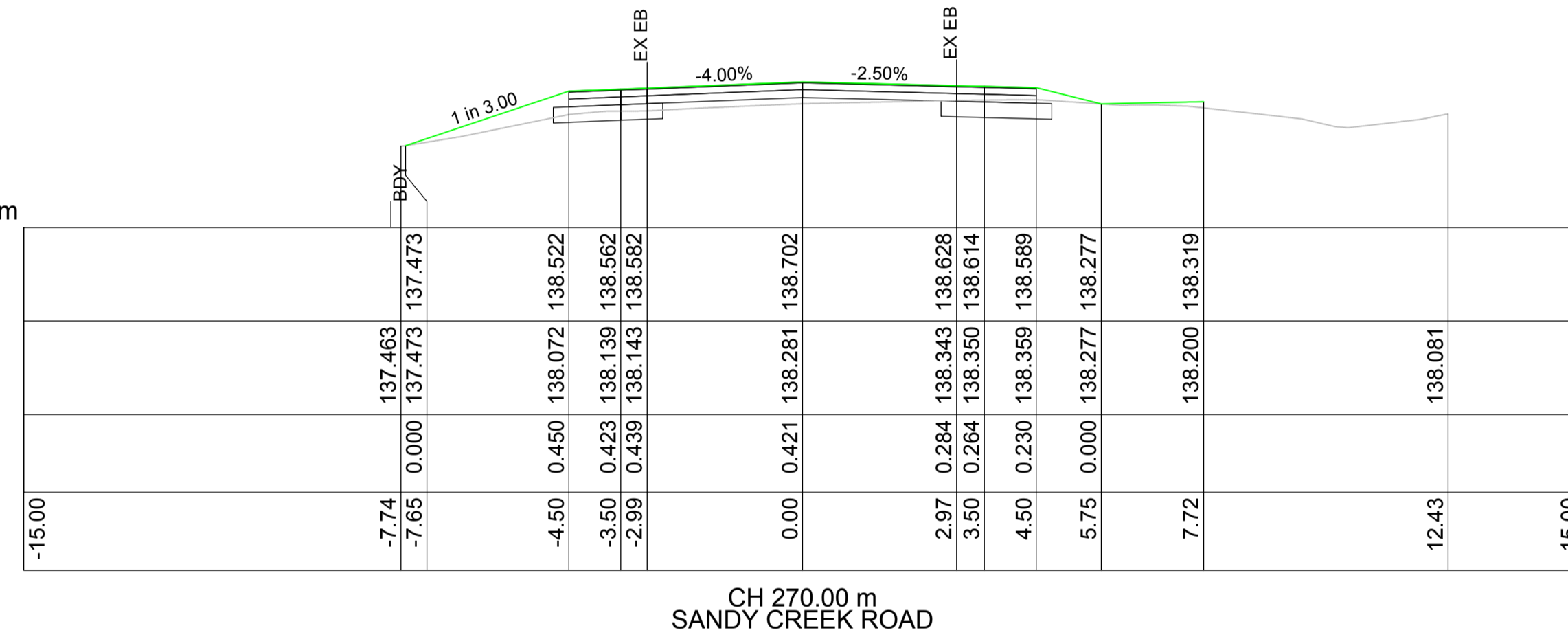
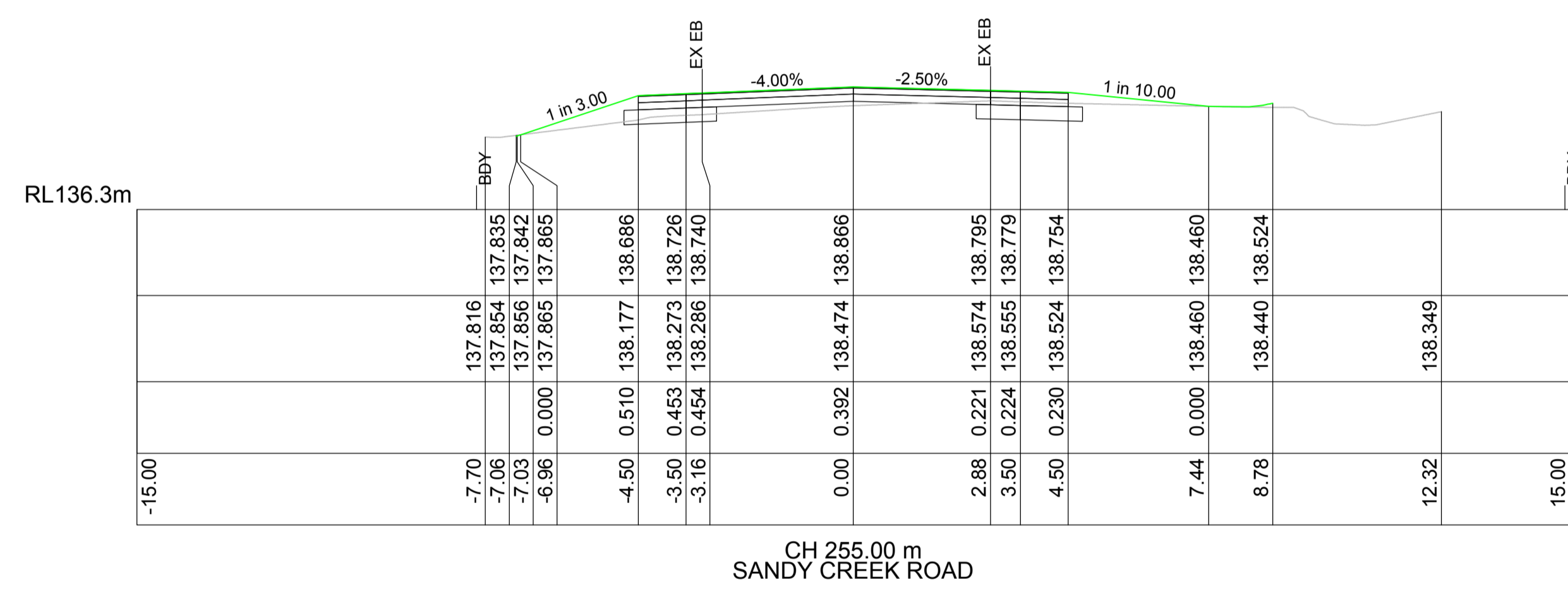
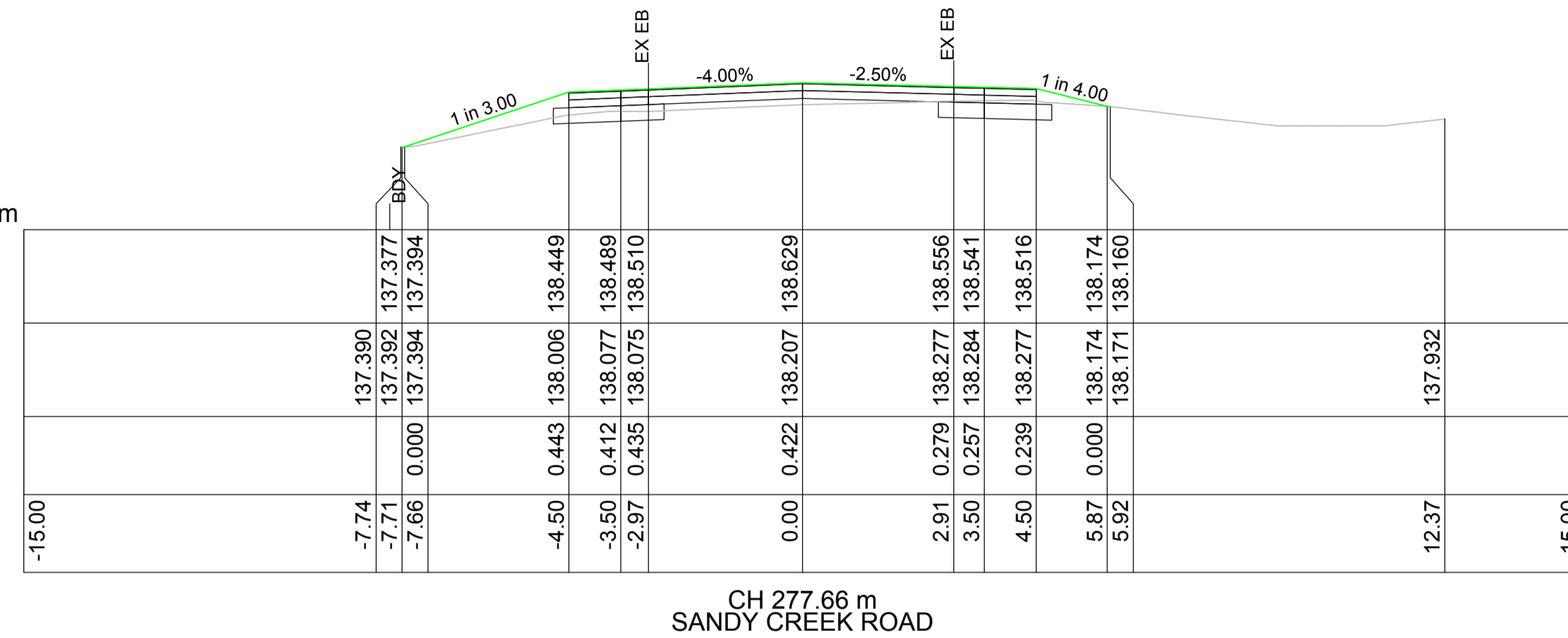
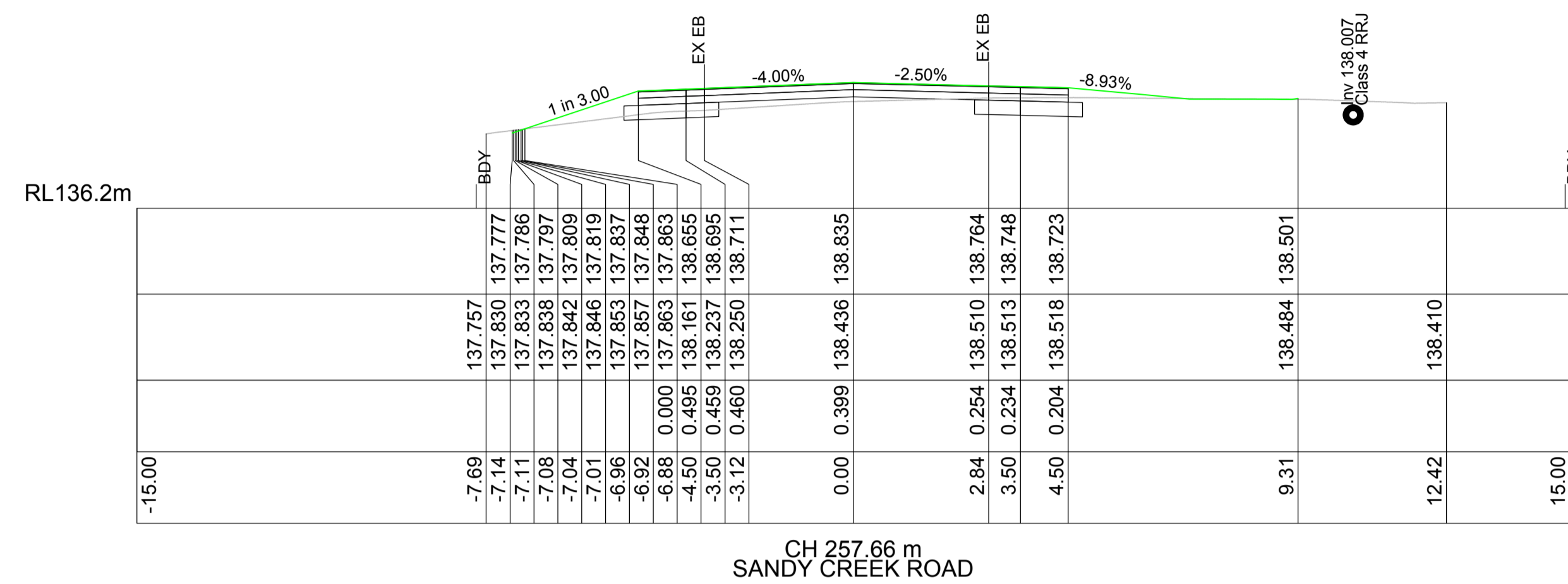
DRAWING TITLE  
**CROSS SECTIONS SHEET 04 OF 72**

**SHEET 18 OF 116 SHEETS**

PROJECT No	AL22077	REVISION	1
DWG No	C05-18		

**CONSTRUCTION**

1:100 (A1)



DESIGN	
EXISTING	
DIFFERENCE	
OFFSET	-15.00

REV	ISSUE FOR CONSTRUCTION	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
	REVISION DETAILS		

**AL CIVIL DESIGN**  
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 GILLIESTON HEIGHTS NSW 2321  
 0466 253 917

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SURVEY:	DELFS LASCHELLES	
CLIENT:	CESSNOCK CITY COUNCIL	
DESIGN:	M.M	
DRAWN:	M.M	
CHECKED:	M.M	
DATE:	11.08.2023	PLAN:
APPROVED:	M.M	1:100 (A1)
		CROSS SECTION
	HORIZ. N/A	HORIZ. 1:100
	VERT. N/A	VERT. 1:100

**PROJECT**  
 LOCAL ROAD RENEWAL  
 STAGE 1 & STAGE 2  
 SANDY CREEK ROAD, QUORROBOLONG

**DRAWING TITLE**  
 CROSS SECTIONS SHEET 05 OF 72

**SHEET 19 OF 116 SHEETS**

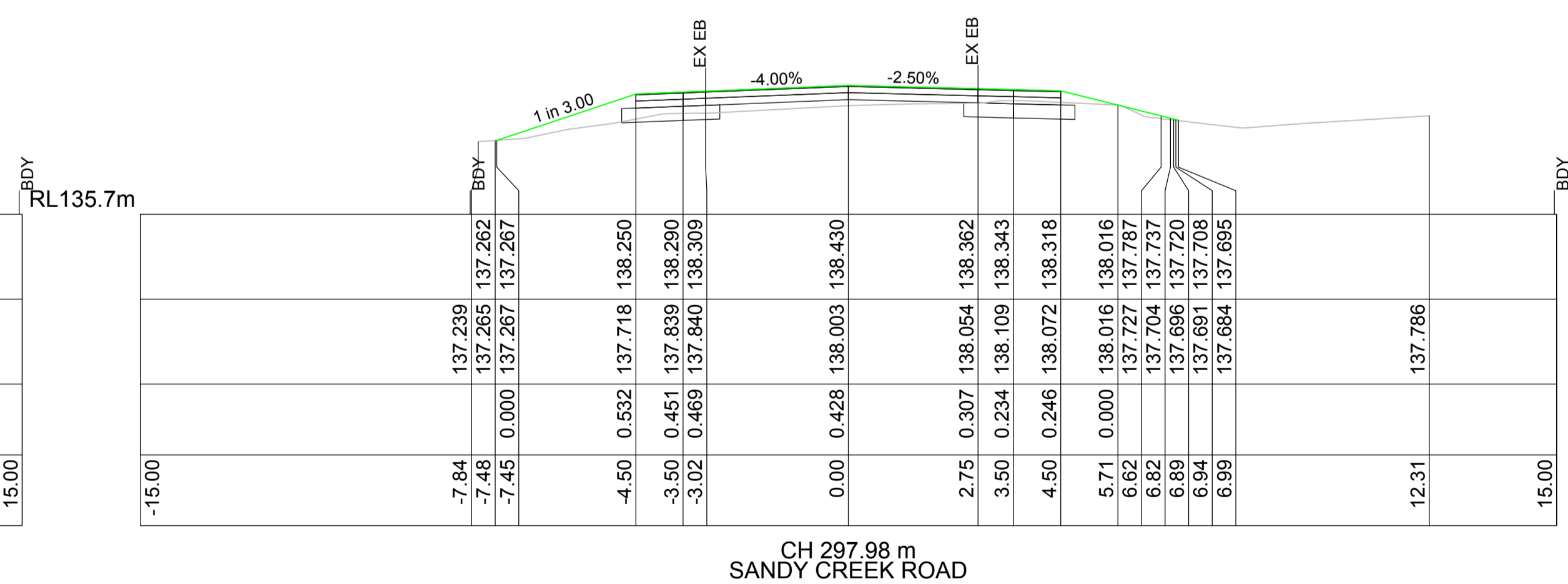
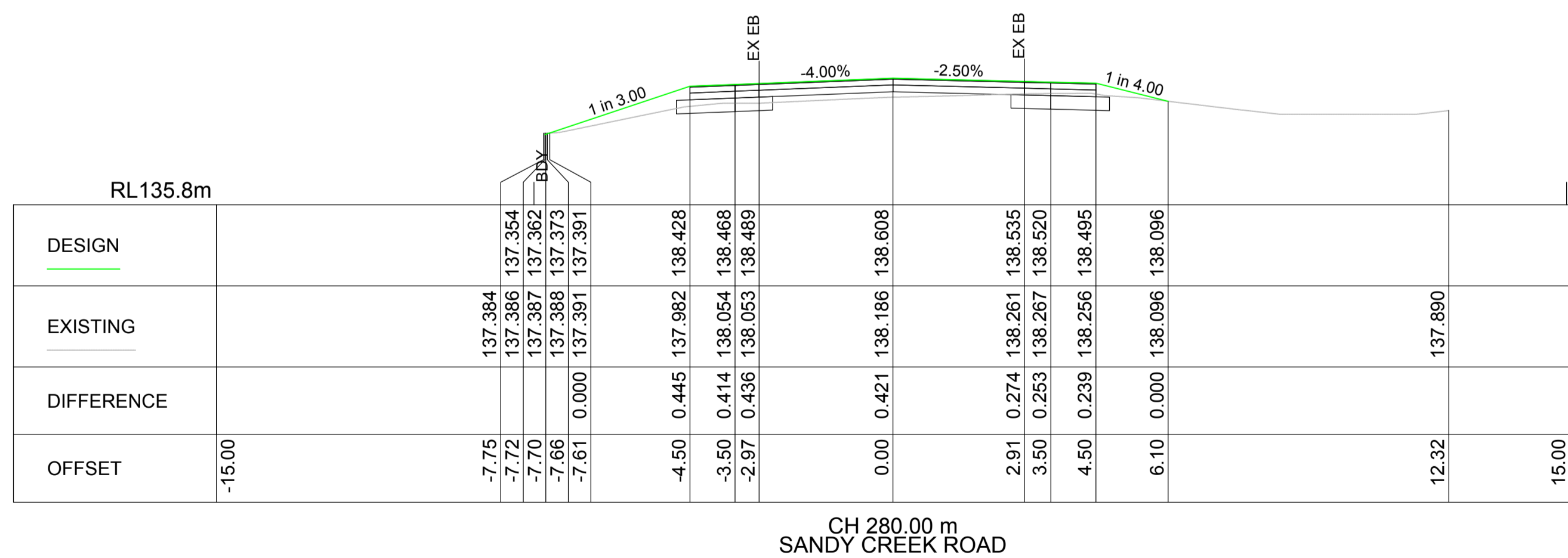
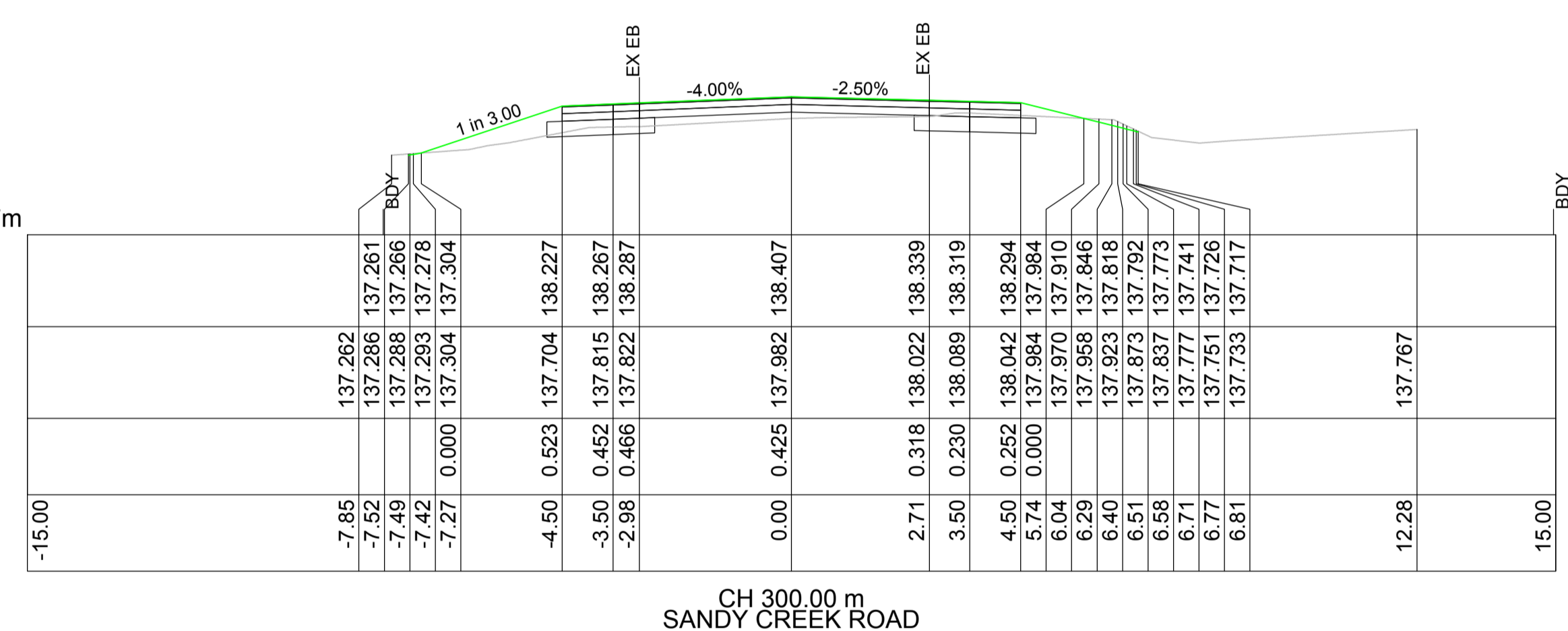
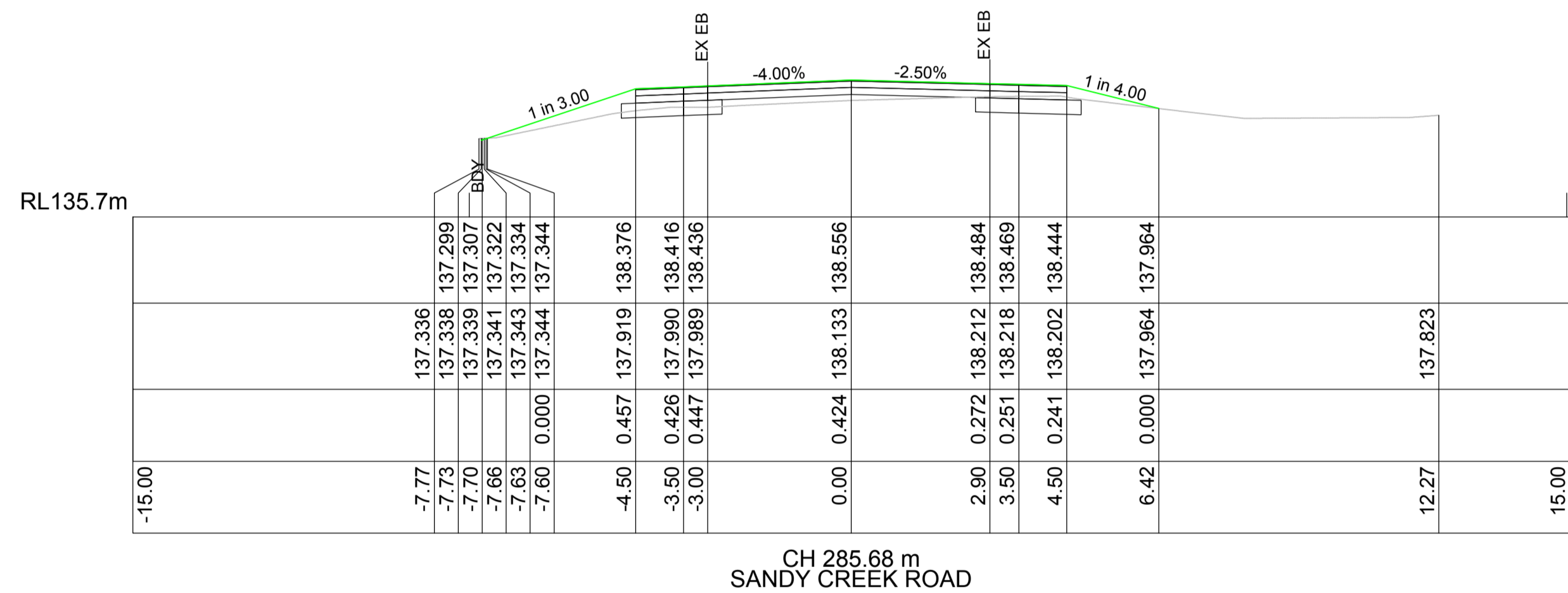
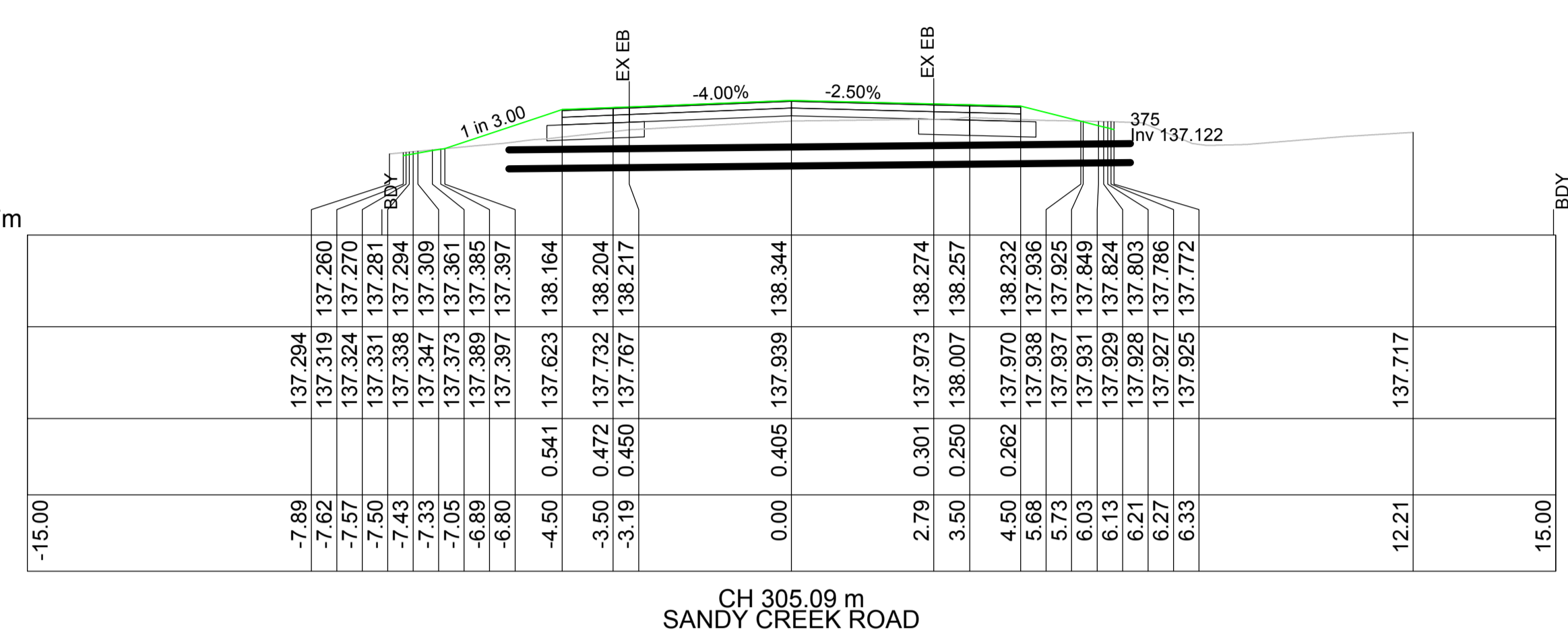
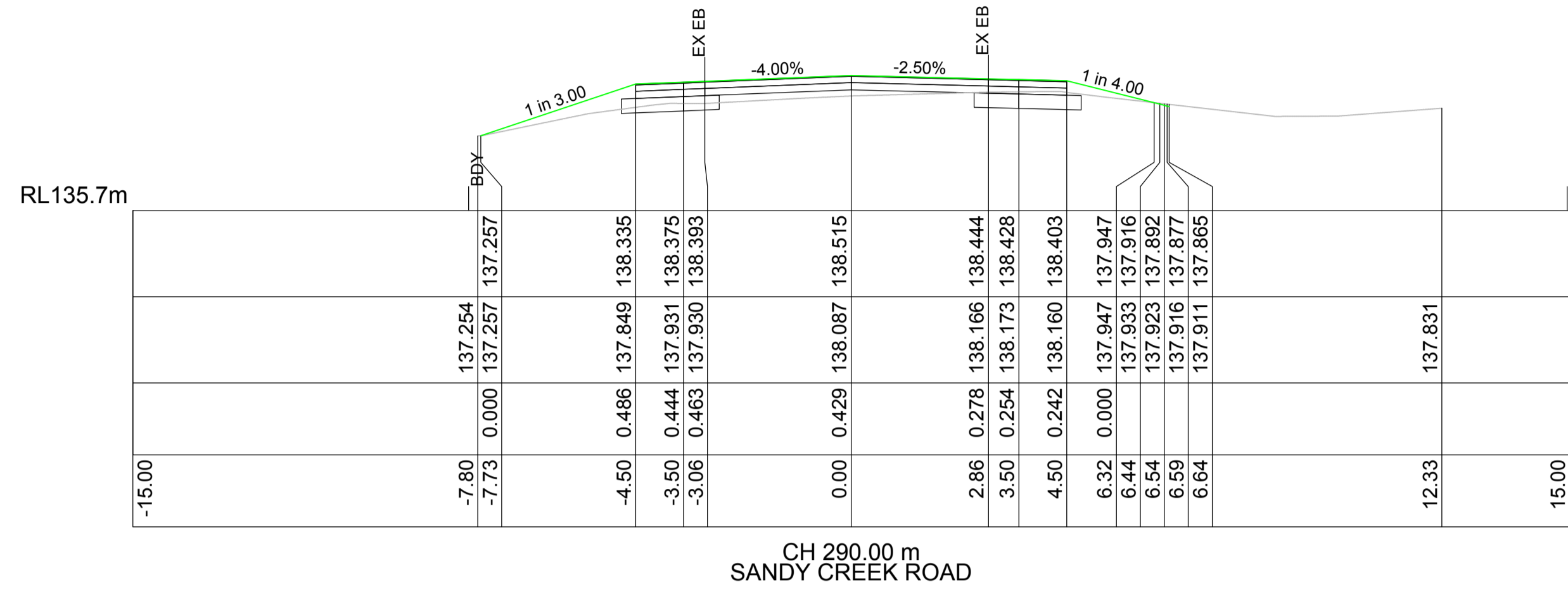
**PROJECT No**  
AL22077

**REVISION**  
1

**DWG No**  
C05-19

**CONSTRUCTION**

**1:100 (A1)**



REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
466	253 917		0466 253 917

AL CIVIL DESIGN  
5 Yew Street  
GILLSTON HEIGHTS NSW 2321  
0466 253 917

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SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M		
DRAWN:	M.M		
CHECKED:	M.M		
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION HORIZ. N/A VERT. N/A
APPROVED:	M.M	CROSS SECTION:	HORIZ. 1:100 VERT. 1:100

PROJECT  
LOCAL ROAD RENEWAL  
STAGE 1 & STAGE 2  
SANDY CREEK ROAD, QUORROBOLONG

DRAWING TITLE  
CROSS SECTIONS SHEET 06 OF 72

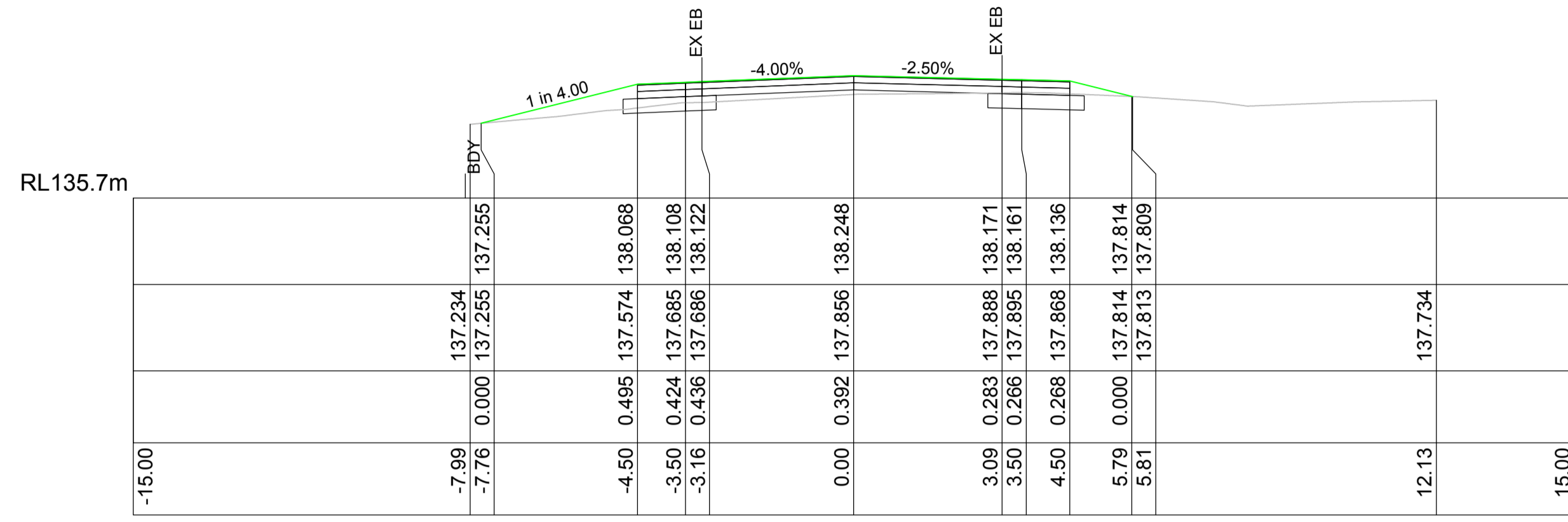
SHEET 20 OF 116 SHEETS

PROJECT No AL22077  
DWG No C05-20

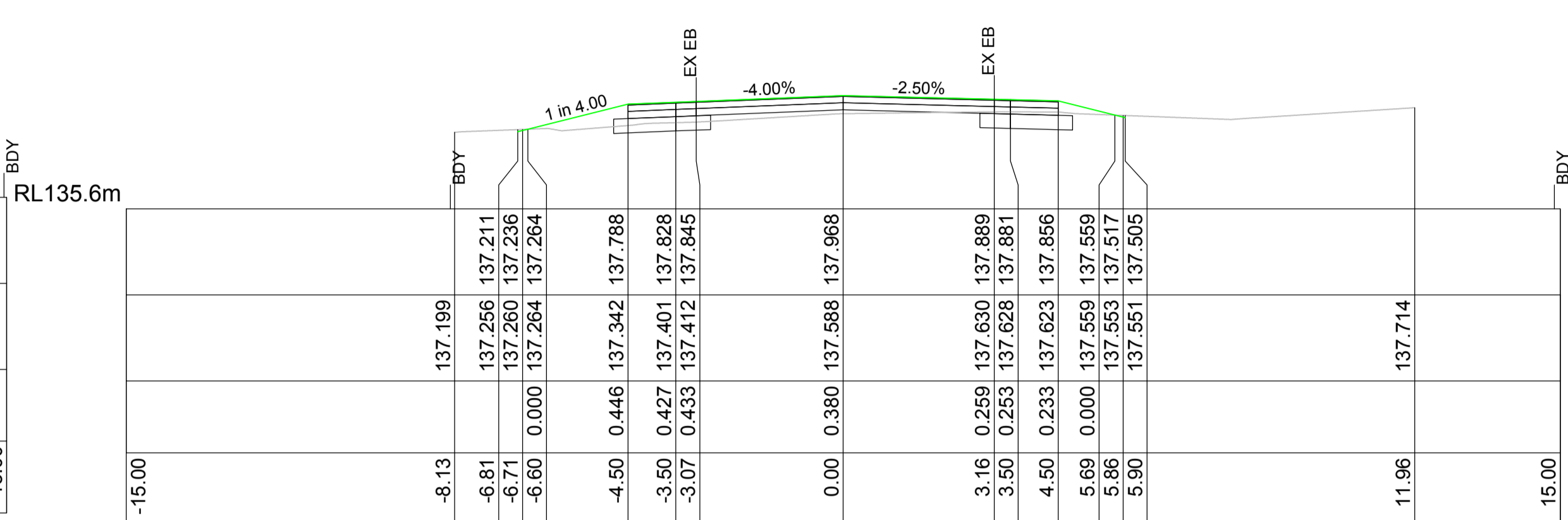
REVISION 1

**CONSTRUCTION**

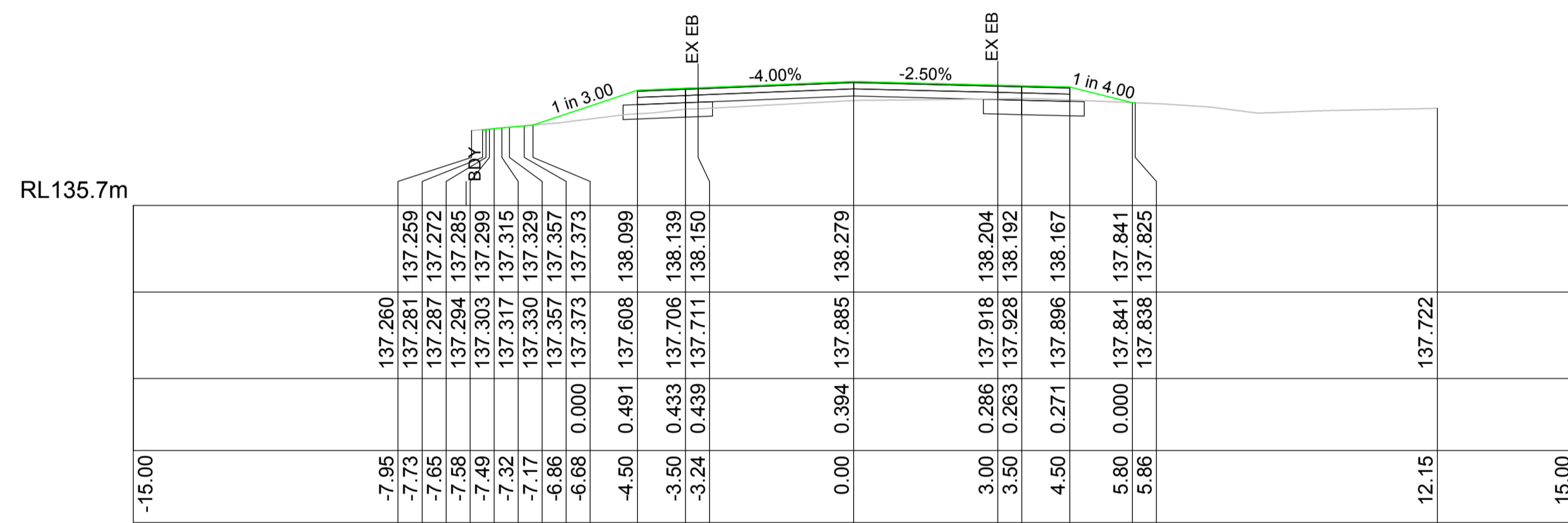
Scale: 1:100 (A1)



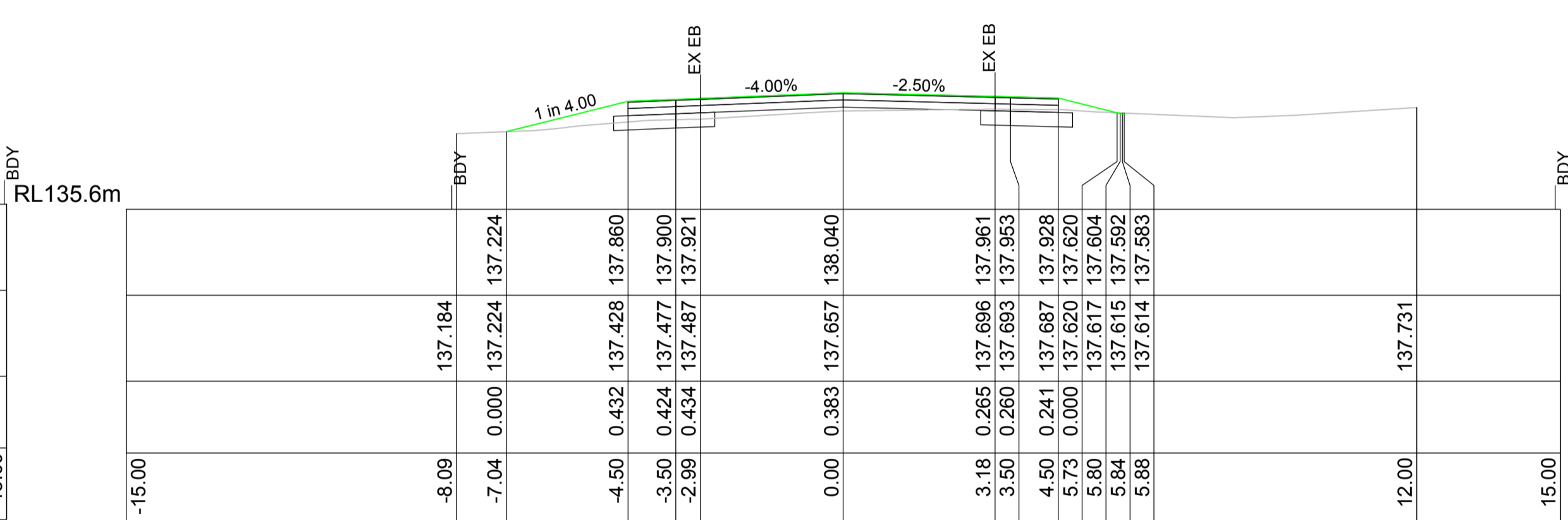
CH 312.20 m SANDY CREEK ROAD



CH 330.00 m SANDY CREEK ROAD



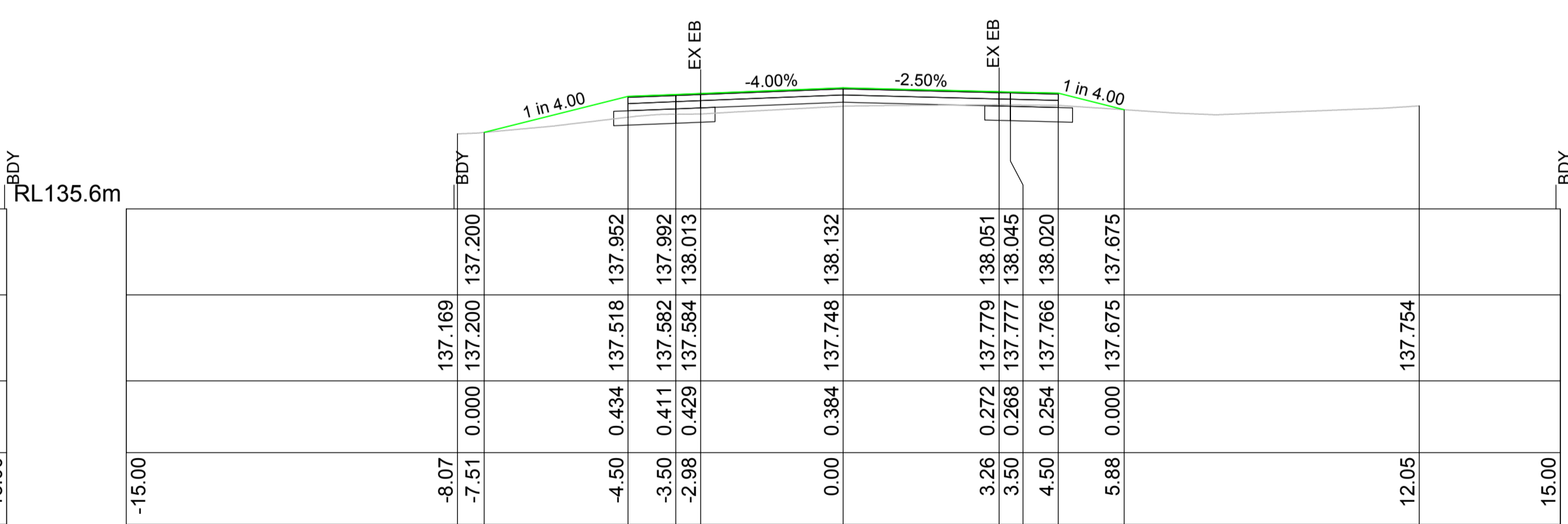
CH 310.00 m SANDY CREEK ROAD



CH 325.68 m SANDY CREEK ROAD

DESIGN	EXISTING	DIFFERENCE	OFFSET
			-15.00
	137.295		-7.90
	137.320		-7.63
	137.330		-7.53
	137.337		-7.46
	137.345		-7.37
	137.369		-7.11
	137.389		-6.90
	137.402		-6.76
	137.628		-4.50
	137.731		-3.50
	137.760		-3.23
			0.00
	137.971		2.82
	137.996		3.50
	137.962		4.50
	137.927		5.69
	137.924		5.76
	137.916		5.95
	137.912		6.06
	137.909		6.14
	137.906		6.21
	137.904		6.28
			12.20
			15.00

CH 305.68 m SANDY CREEK ROAD



CH 320.00 m SANDY CREEK ROAD

REV	ISSUE	DATE	ISSUED BY
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE

AL CIVIL DESIGN  
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GILLISTON HEIGHTS NSW 2321  
0466 253 917

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SURVEY:	DELFS LASCELLES
DESIGN:	M.M
DRAWN:	M.M
CHECKED:	M.M
DATE:	11.08.2023
APPROVED:	M.M

CLIENT	<b>CESSNOCK CITY COUNCIL</b>	
PLAN:	LONGITUDINAL SECTION	CROSS SECTION
1:100 (A1)	HORIZ. N/A	HORIZ. 1:100
	VERT. N/A	VERT. 1:100

PROJECT  
**LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG**

DRAWING TITLE  
**CROSS SECTIONS SHEET 07 OF 72**

**SHEET 21 OF 116 SHEETS**

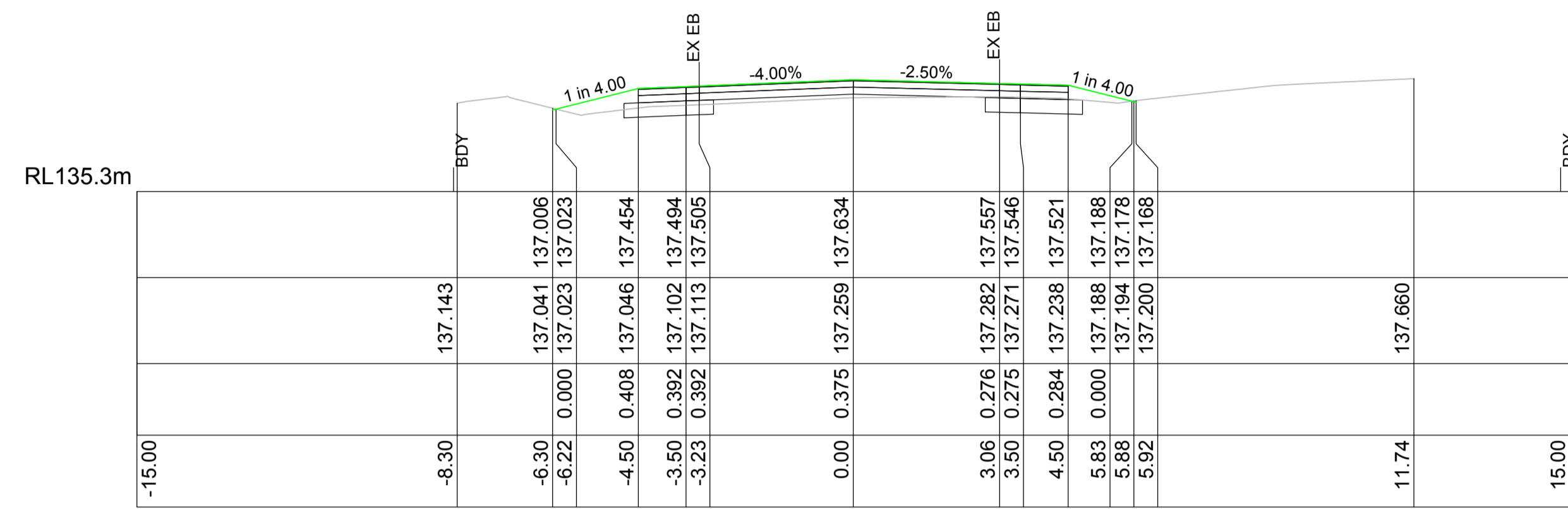
PROJECT No  
**AL22077**

DWG No  
**C05-21**

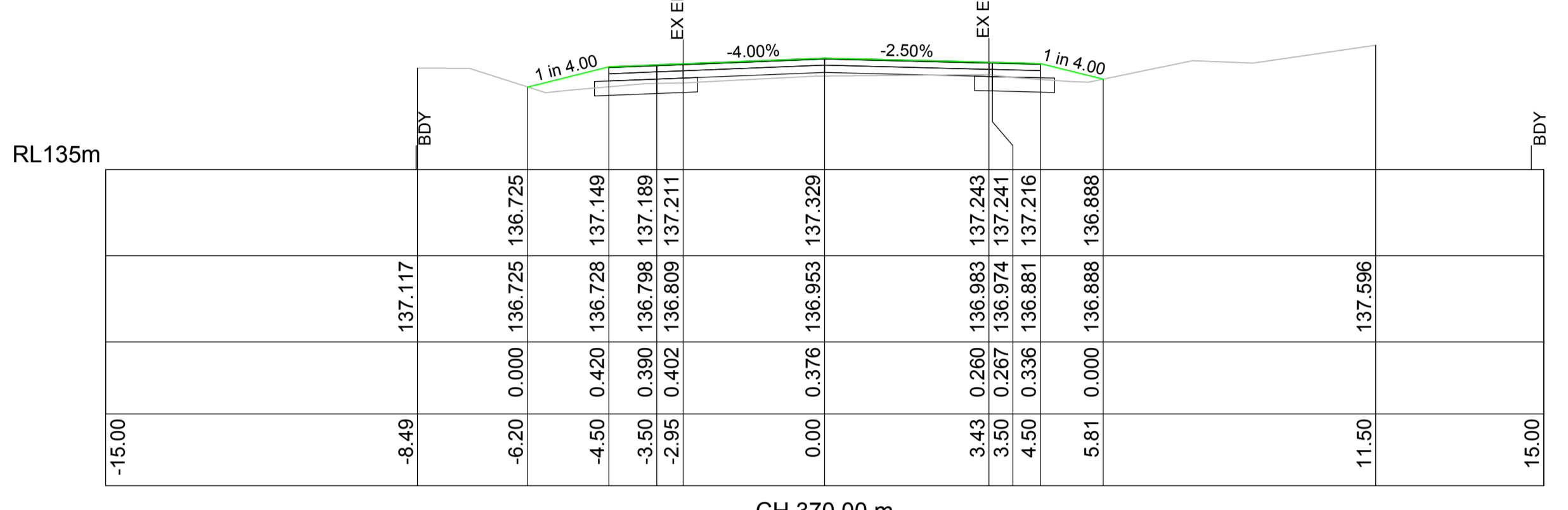
REVISION  
**1**

**CONSTRUCTION**

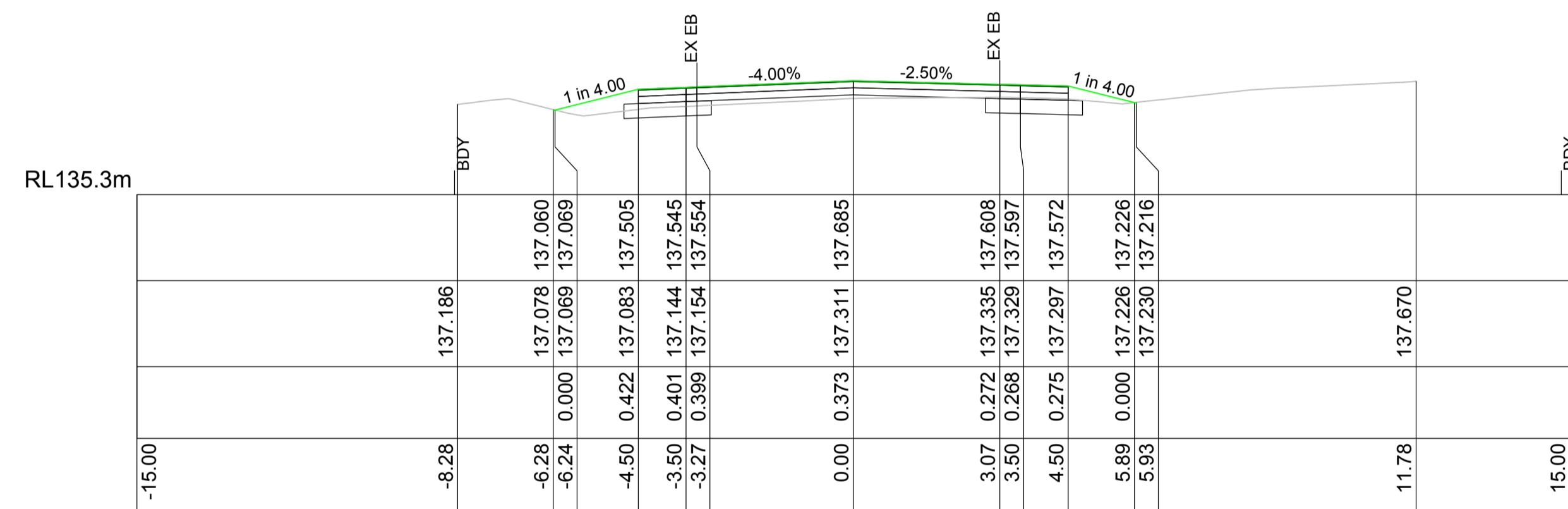
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1:100 (A1)



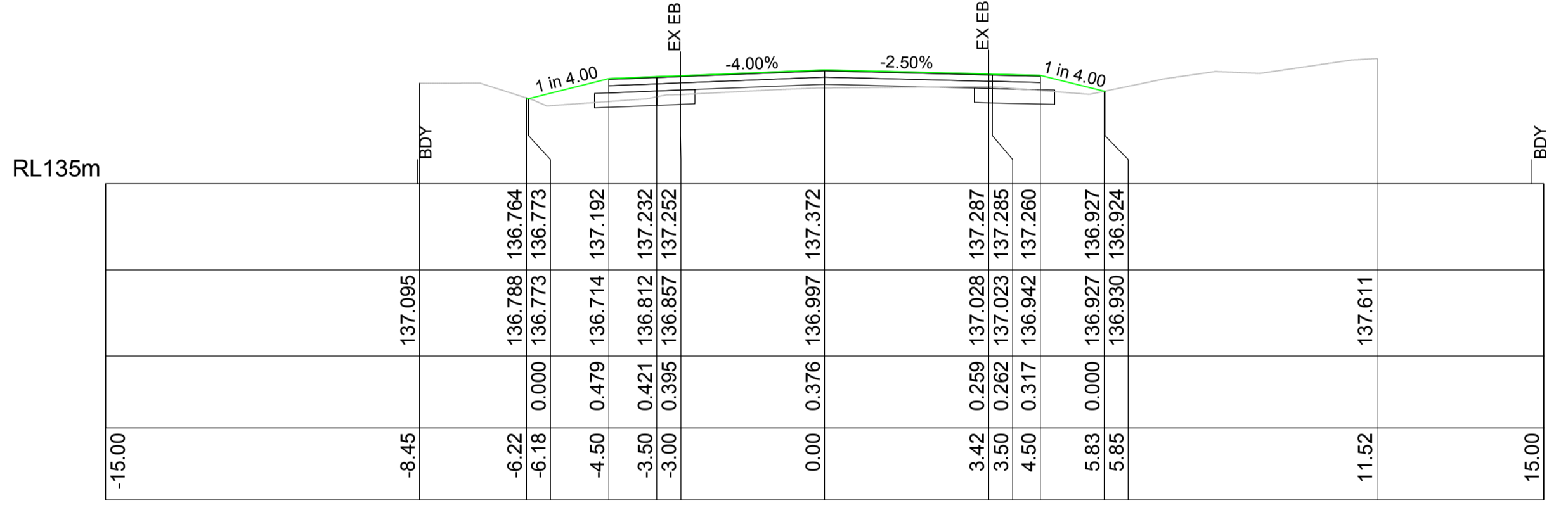
CH 350.00 m SANDY CREEK ROAD



CH 370.00 m SANDY CREEK ROAD



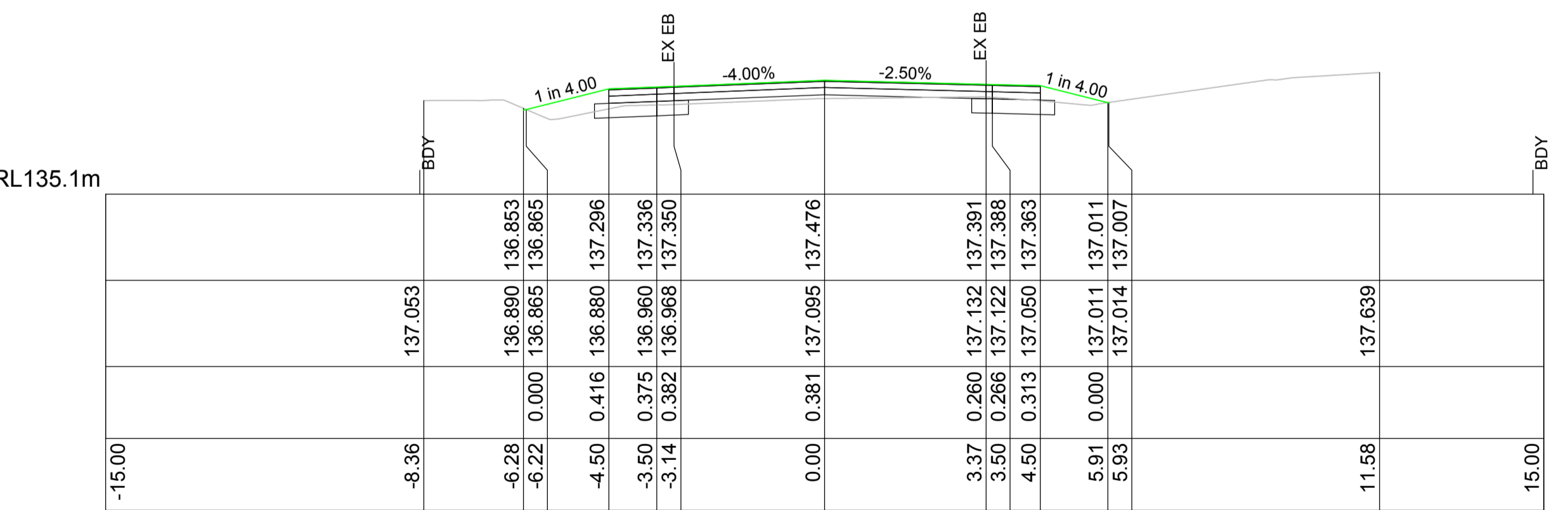
CH 346.95 m SANDY CREEK ROAD



CH 366.95 m SANDY CREEK ROAD

DESIGN	EXISTING	DIFFERENCE	OFFSET
137.208	137.208	-8.26	-8.26
137.179	137.179	-6.27	-6.27
137.621	137.169	-4.50	-4.50
137.661	137.241	-3.50	-3.50
137.665	137.245	-3.40	-3.40
137.801	137.430	0.00	0.00
137.721	137.467	3.20	3.20
137.713	137.466	3.50	3.50
137.688	137.433	4.50	4.50
137.304	137.304	6.04	6.04
137.716	137.716	11.85	11.85
15.00	15.00	15.00	15.00

CH 340.00 m SANDY CREEK ROAD



CH 360.00 m SANDY CREEK ROAD

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

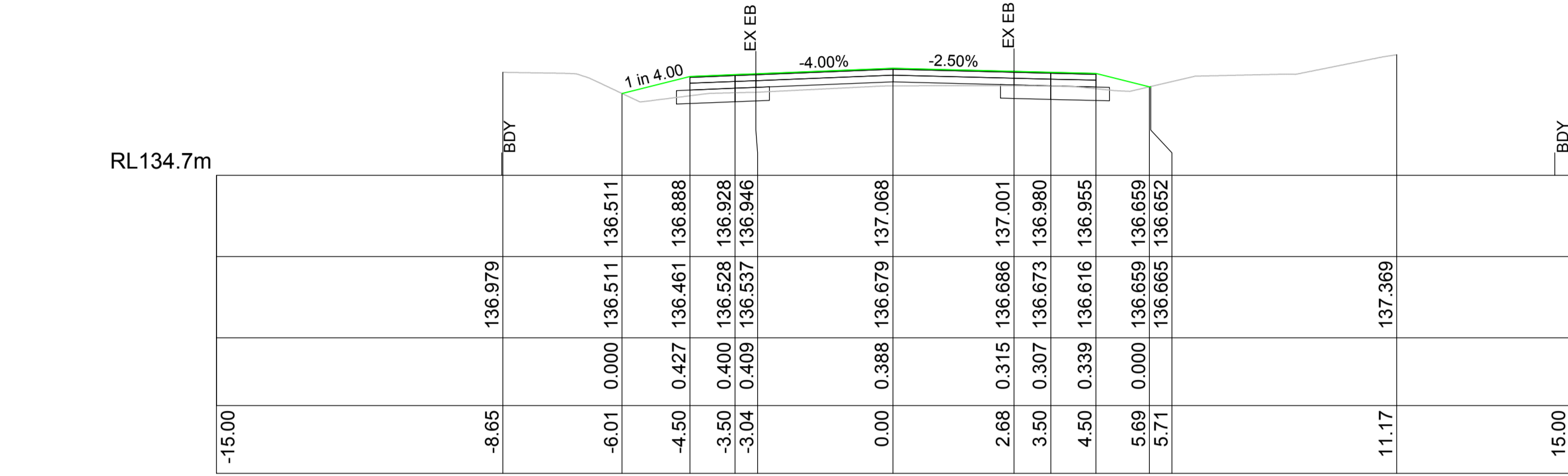
**AL CIVIL DESIGN**  
 AL Civil Design  
 5 Yew Street  
 GILLIESTON HEIGHTS NSW 2321  
 0466 253 917

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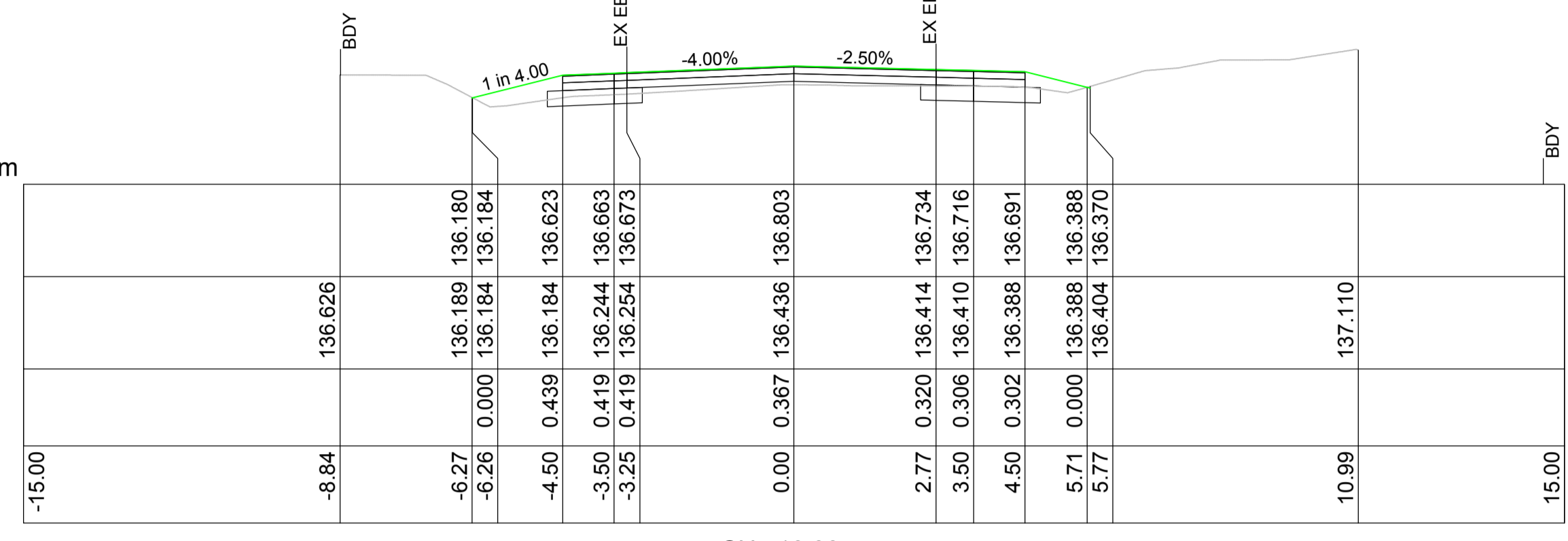
SURVEY: DELFS LASCELLES	CLIENT: CESSNOCK CITY COUNCIL
DESIGN: M.M	
DRAWN: M.M	
CHECKED: M.M	
DATE: 11.08.2023	PLAN: LONGITUDINAL SECTION CROSS SECTION
APPROVED: M.M	1:100 (A1) HORIZ. N/A HORIZ. 1:100 VERT. N/A VERT. 1:100

PROJECT: LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG  
 DRAWING TITLE: CROSS SECTIONS SHEET 08 OF 72  
 SHEET 22 OF 116 SHEETS

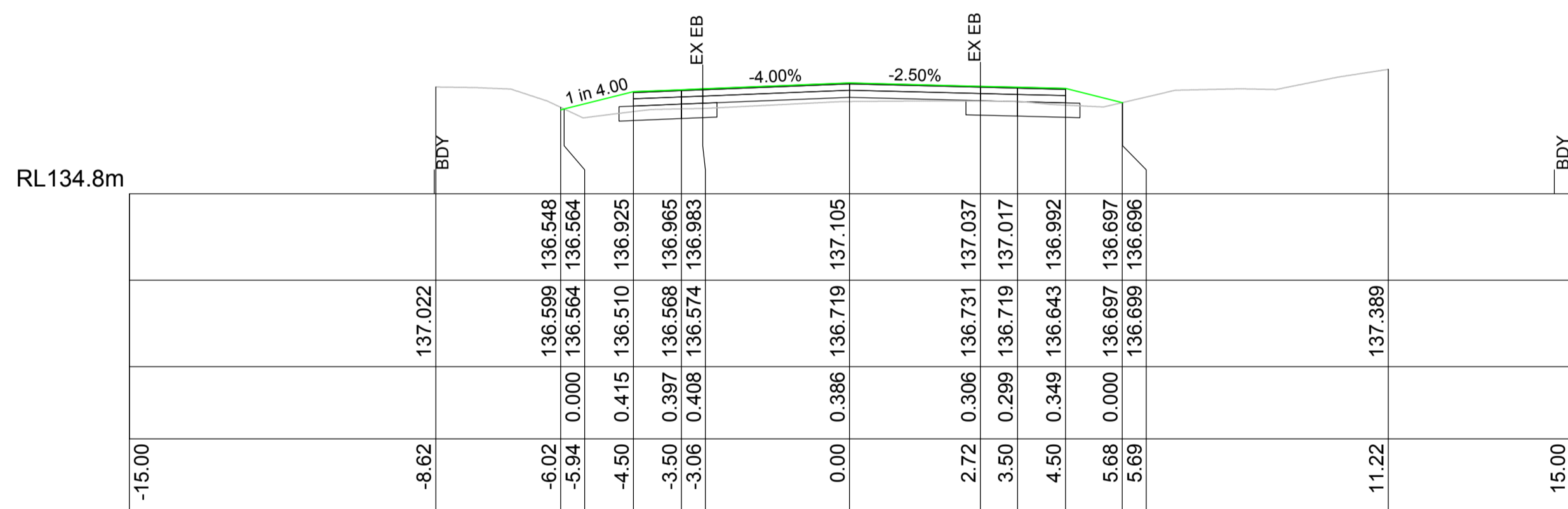
PROJECT No: AL22077  
 DWG No: C05-22  
 REVISION: 1  
**CONSTRUCTION**  
 2 1 0 2 4 6  
 1:100 (A1)



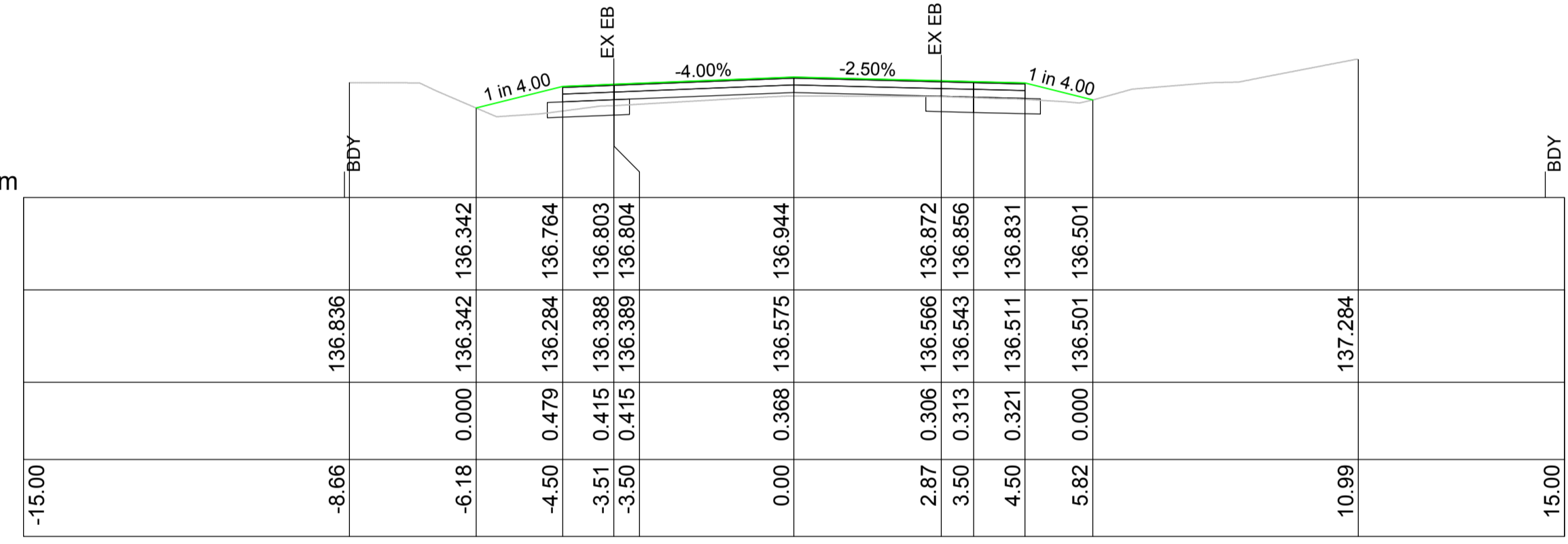
CH 390.00 m  
SANDY CREEK ROAD



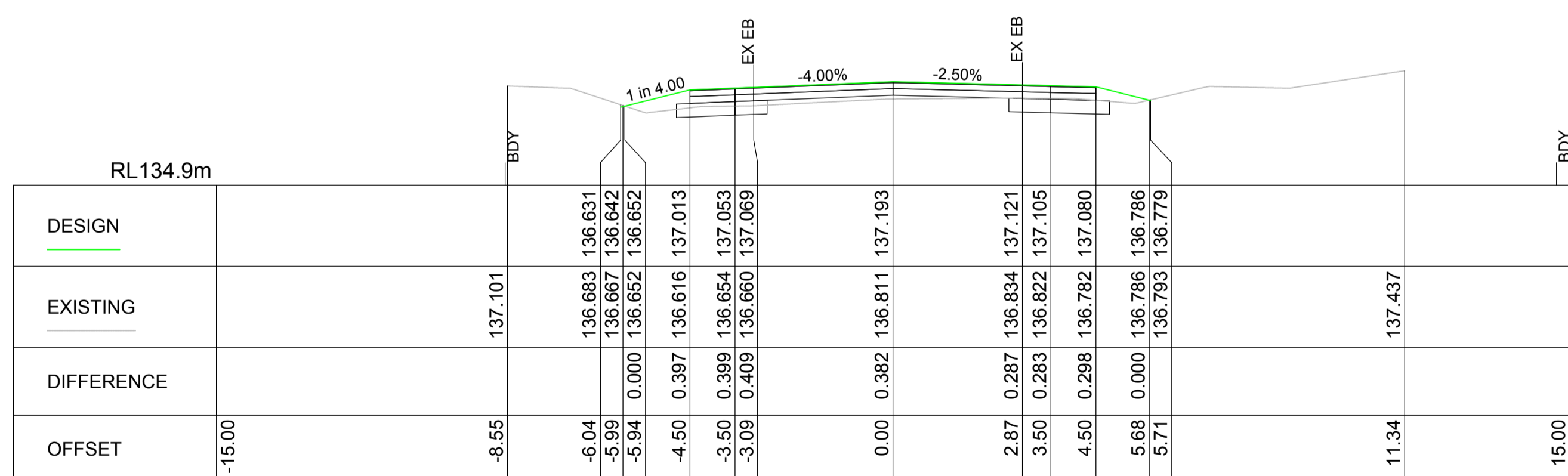
CH 410.00 m  
SANDY CREEK ROAD



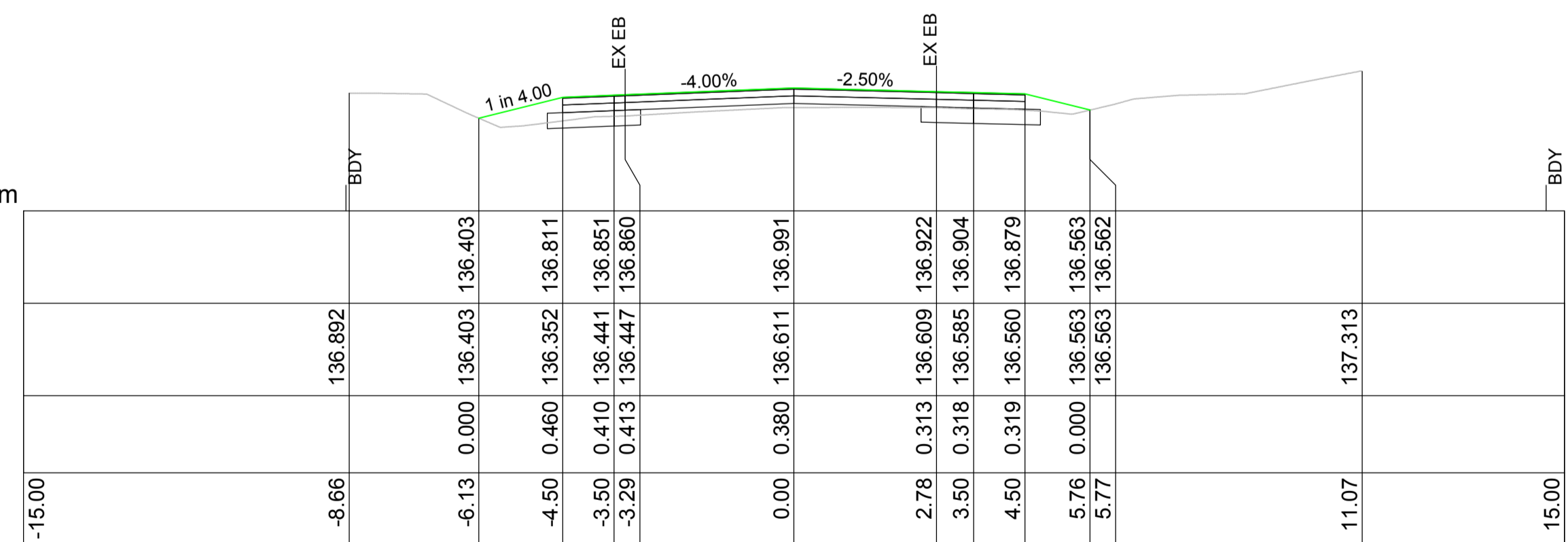
CH 386.95 m  
SANDY CREEK ROAD



CH 400.00 m  
SANDY CREEK ROAD



CH 380.00 m  
SANDY CREEK ROAD



CH 396.24 m  
SANDY CREEK ROAD

DESIGN															
EXISTING		137.101	136.631	136.642	136.652	137.013	137.053	137.089	137.193	137.121	137.105	137.080	136.786	136.779	137.437
DIFFERENCE			-6.04	-5.99	-5.94	-4.50	-3.50	-3.09	0.00	2.87	3.50	4.50	5.68	5.71	11.34
OFFSET	-15.00														

1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE



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SURVEY:	DELFS LASCELLES
DESIGN:	M.M
DRAWN:	M.M
CHECKED:	M.M
DATE:	11.08.2023
APPROVED:	M.M

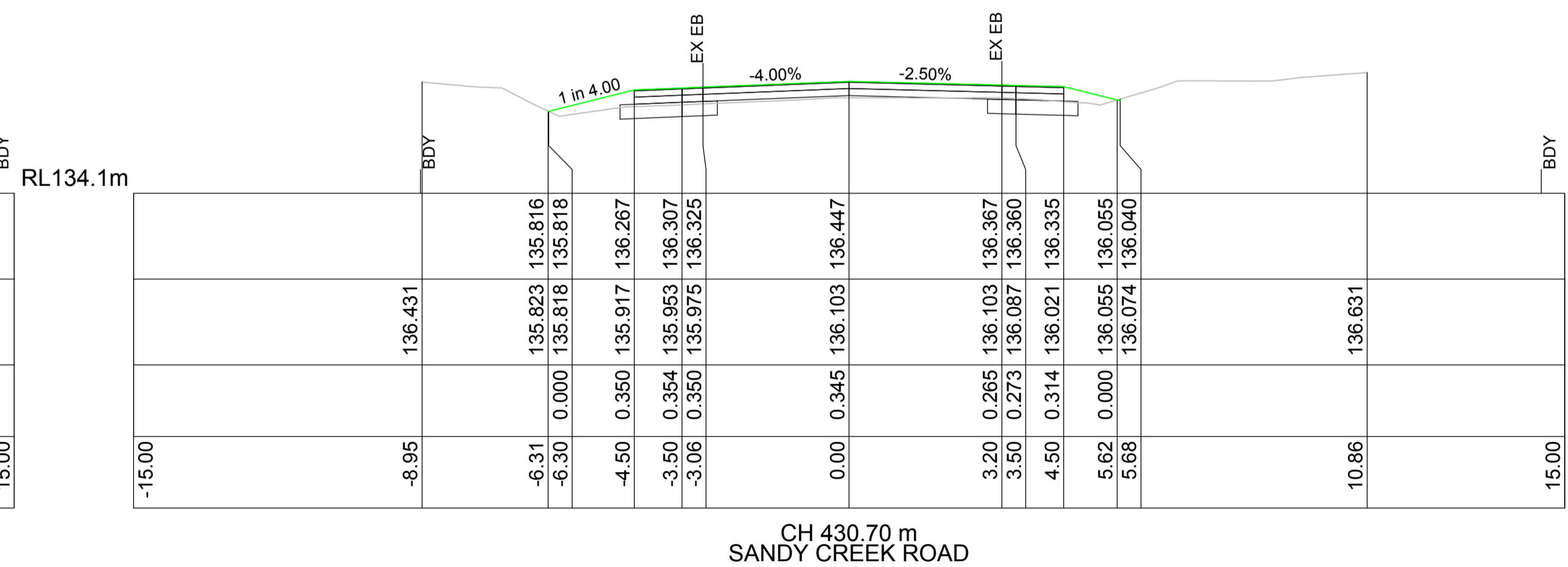
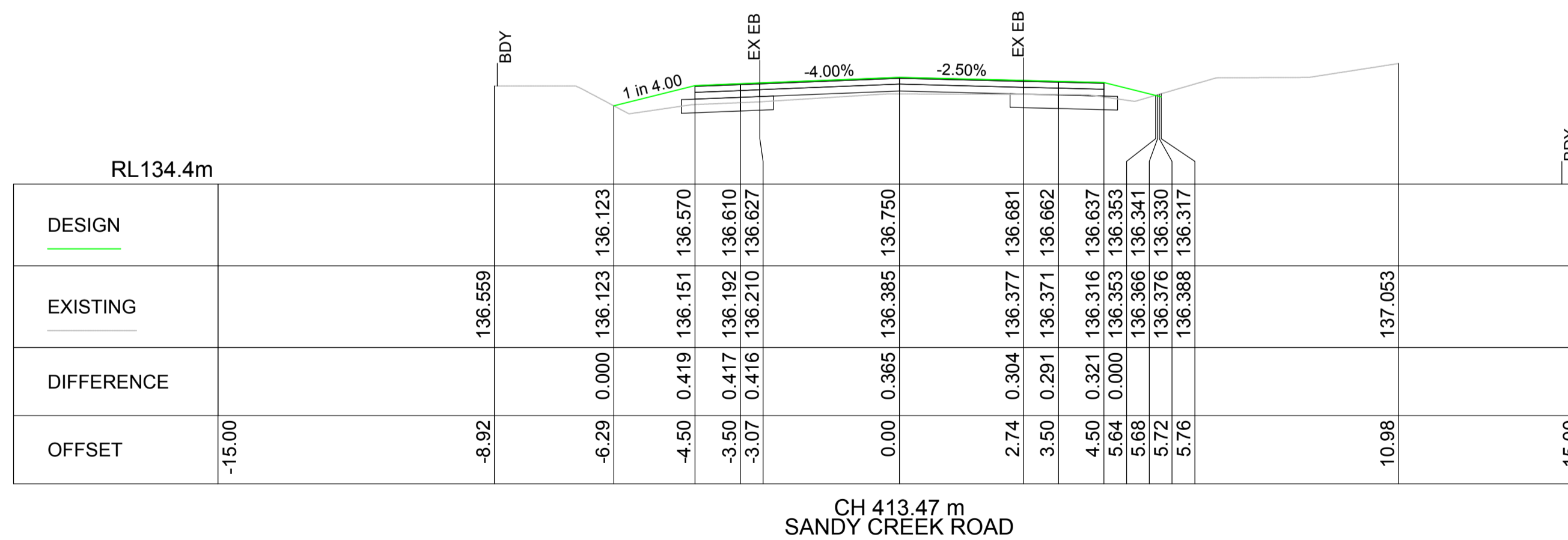
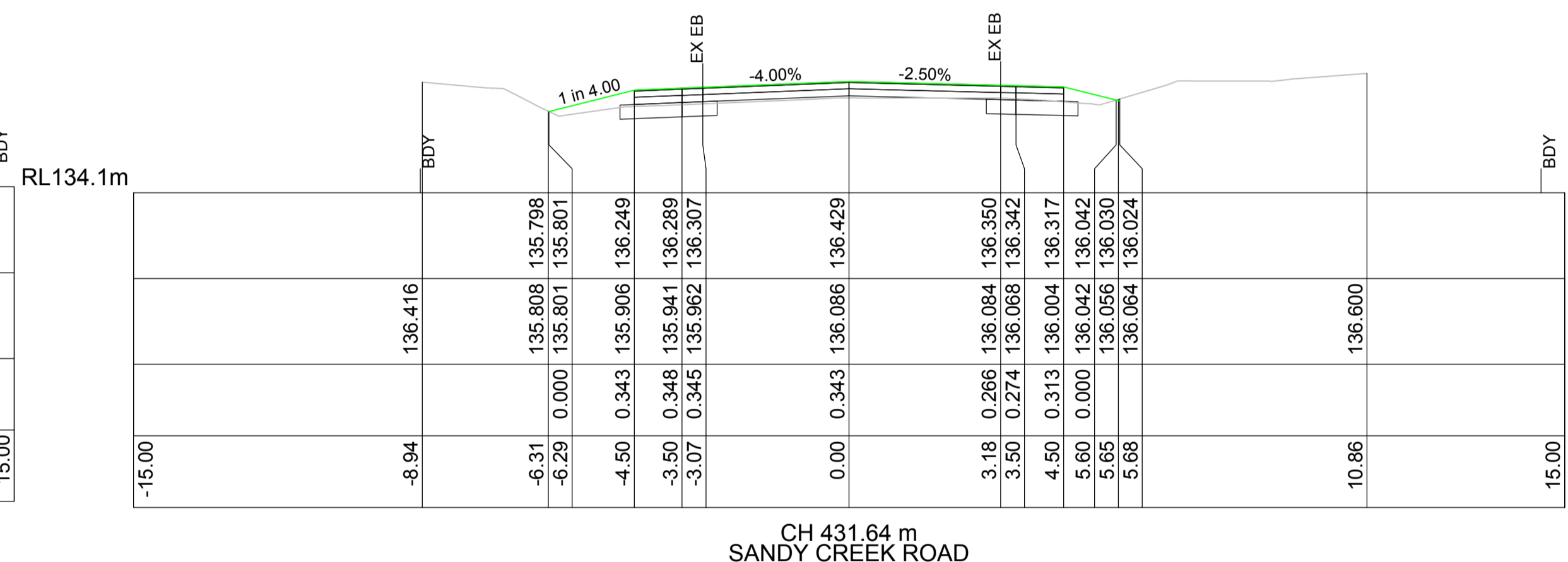
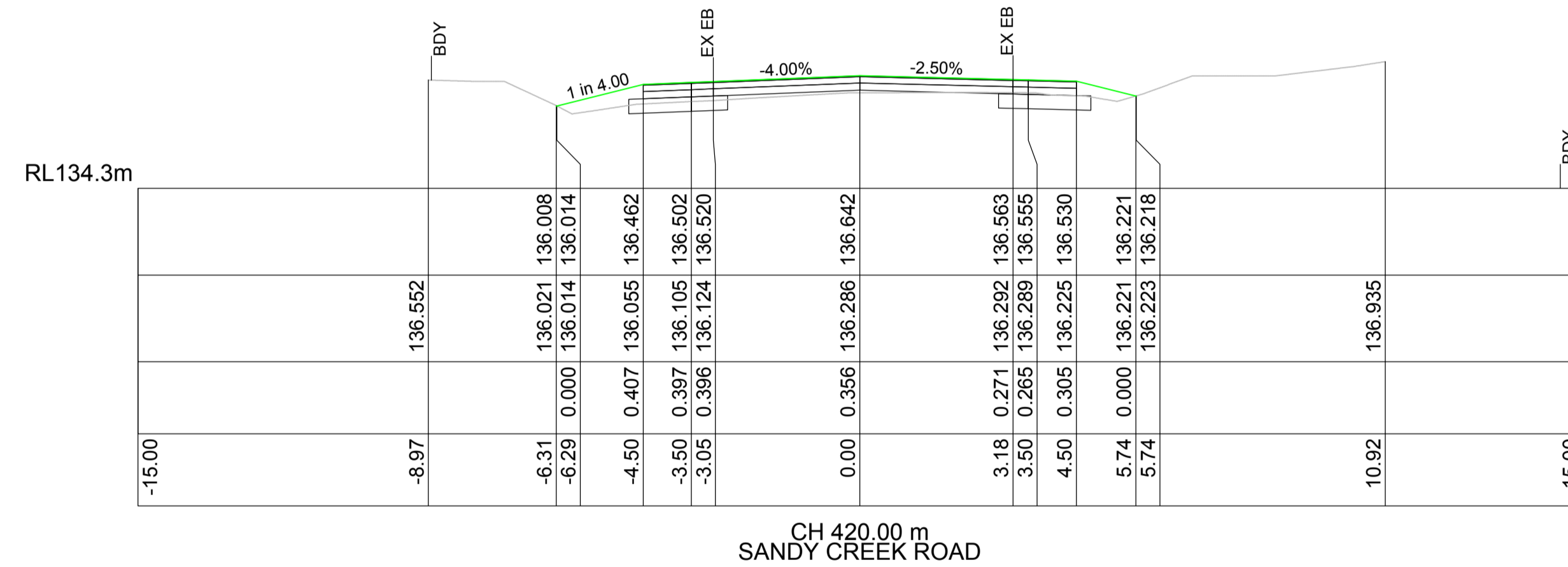
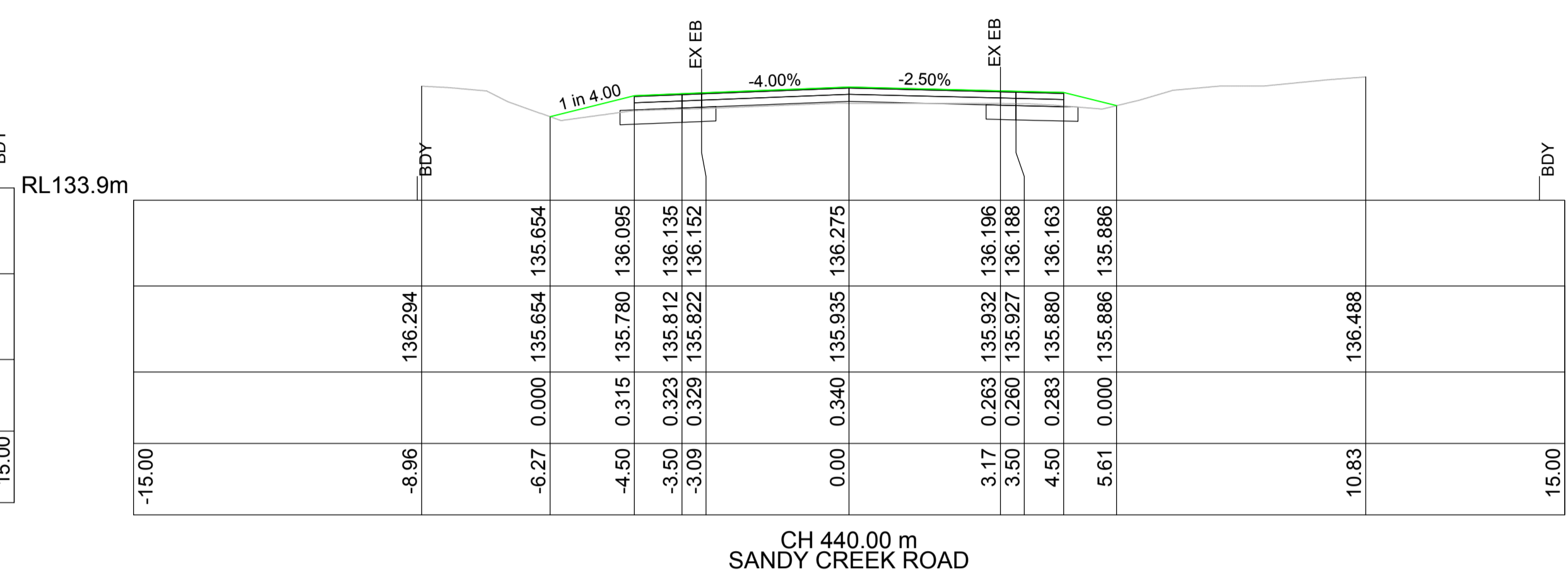
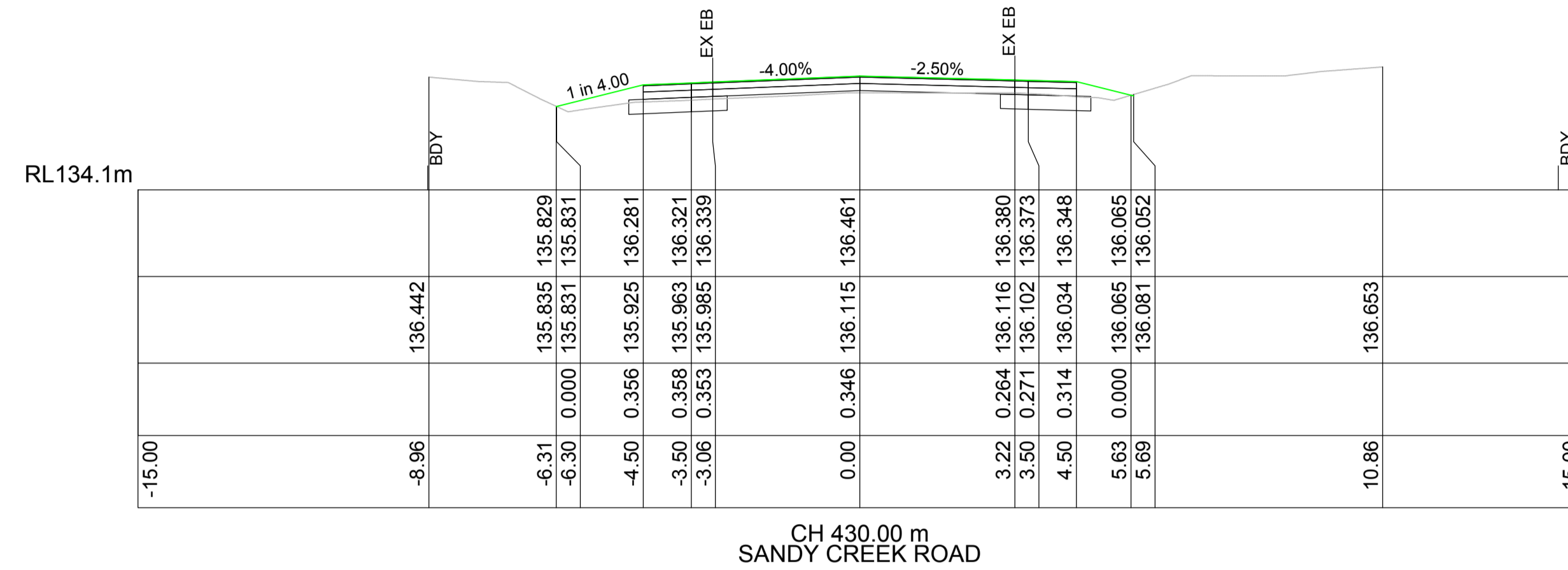
CLIENT	CESSNOCK CITY COUNCIL	
PLAN:	LONGITUDINAL SECTION	CROSS SECTION
1:100 (A1)	HORIZ. N/A	HORIZ. 1:100
	VERT. N/A	VERT. 1:100

PROJECT  
**LOCAL ROAD RENEWAL**  
**STAGE 1 & STAGE 2**  
**SANDY CREEK ROAD, QUORROBOLONG**

DRAWING TITLE  
**CROSS SECTIONS SHEET 09 OF 72**

**SHEET 23 OF 116 SHEETS**

PROJECT No	AL22077	REVISION	1
DWG No	C05-23	<b>CONSTRUCTION</b>	
2 1 0 2 4 6		1:100 (A1)	



1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE

AL Civil Design  
5 Yew Street  
GILLIESTON HEIGHTS NSW 2321  
0466 253 917

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SURVEY:	DELFS LASCELLES	CLIENT	CESSNOCK CITY COUNCIL
DESIGN:	M.M		
DRAWN:	M.M		
CHECKED:	M.M		
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION HORIZ. N/A VERT. N/A
APPROVED:	M.M		CROSS SECTION HORIZ. 1:100 VERT. 1:100

PROJECT  
**LOCAL ROAD RENEWAL  
 STAGE 1 & STAGE 2  
 SANDY CREEK ROAD, QUORROBOLONG**

DRAWING TITLE  
**CROSS SECTIONS SHEET 10 OF 72**

**SHEET 24 OF 116 SHEETS**

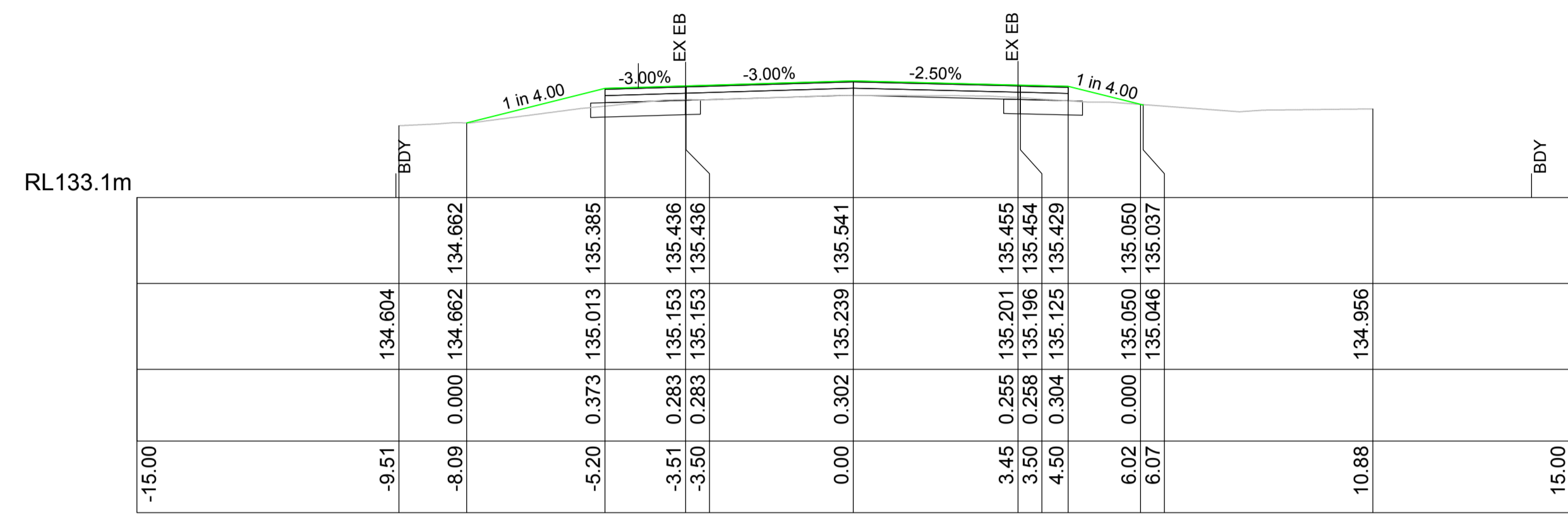
PROJECT No	AL22077	REVISION	1
DWG No	C05-24		

**CONSTRUCTION**

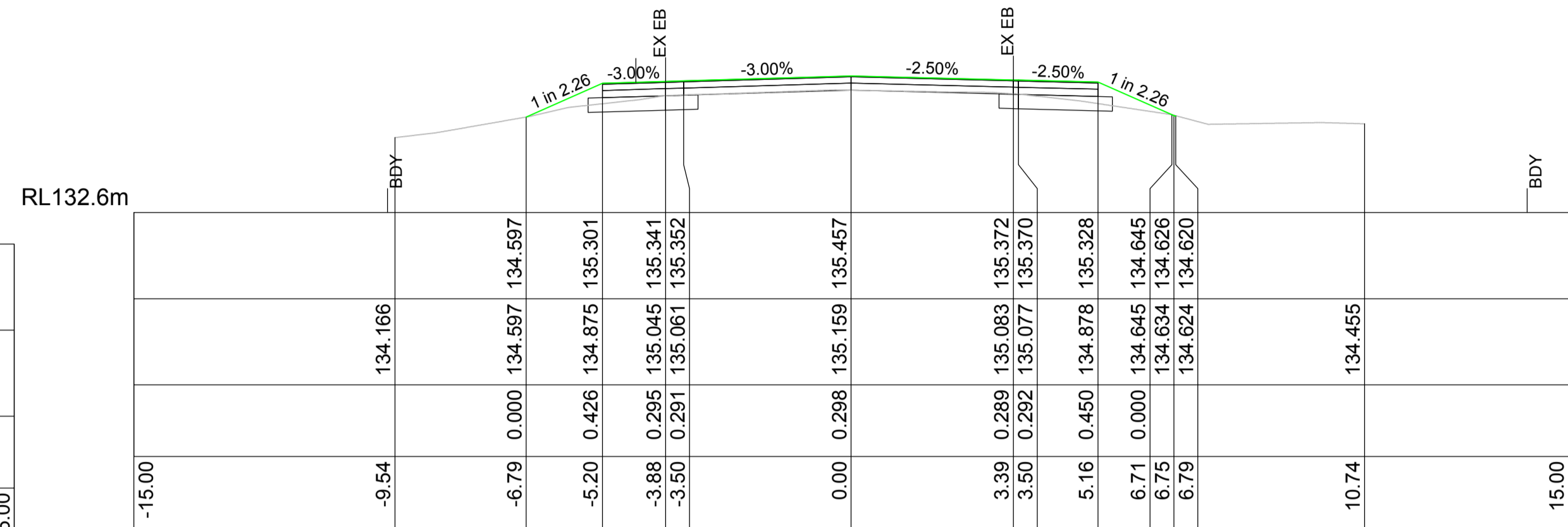
1:100 (A1)



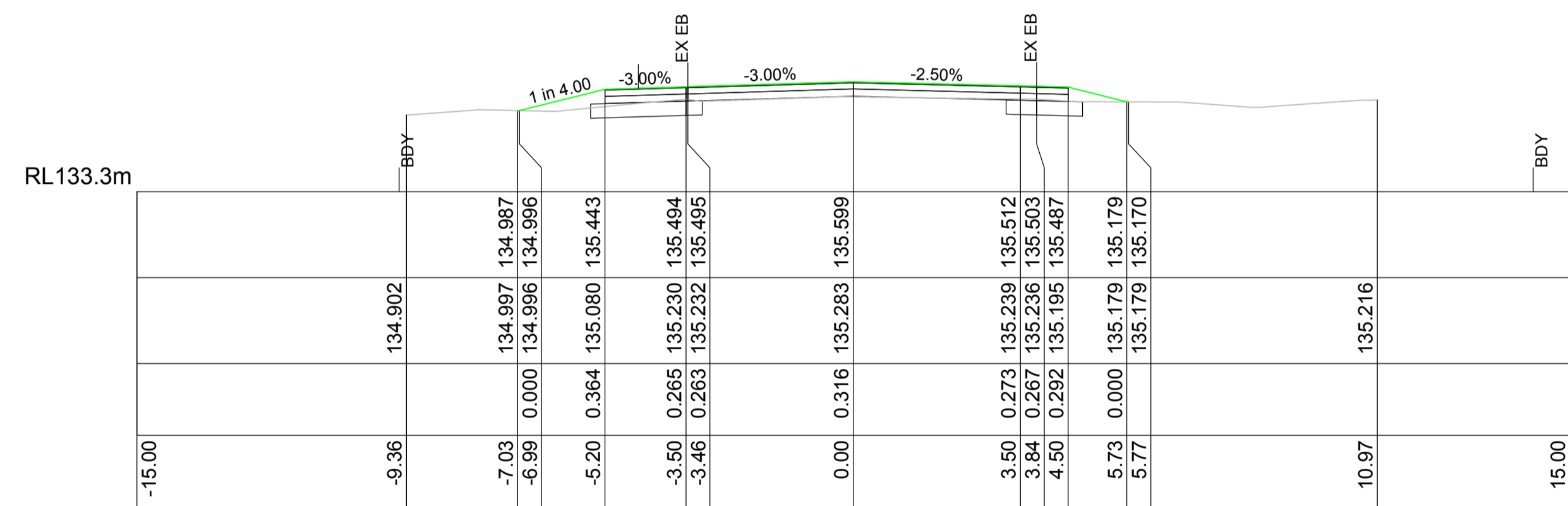




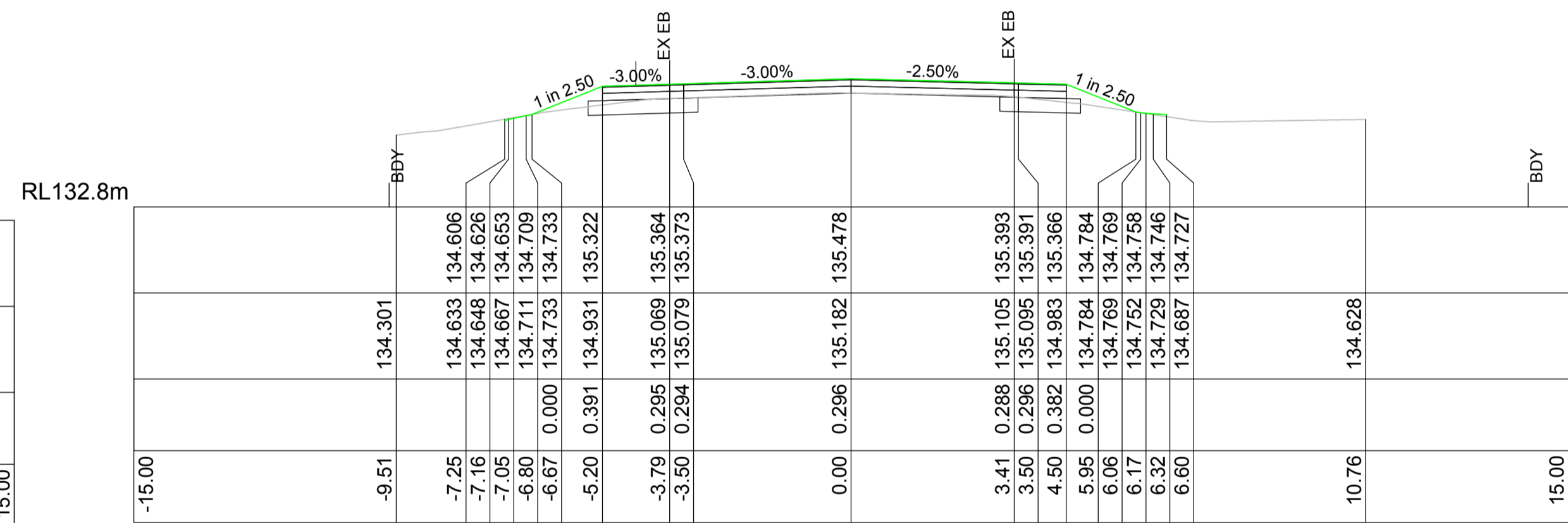
CH 508.85 m  
SANDY CREEK ROAD



CH 524.74 m  
SANDY CREEK ROAD



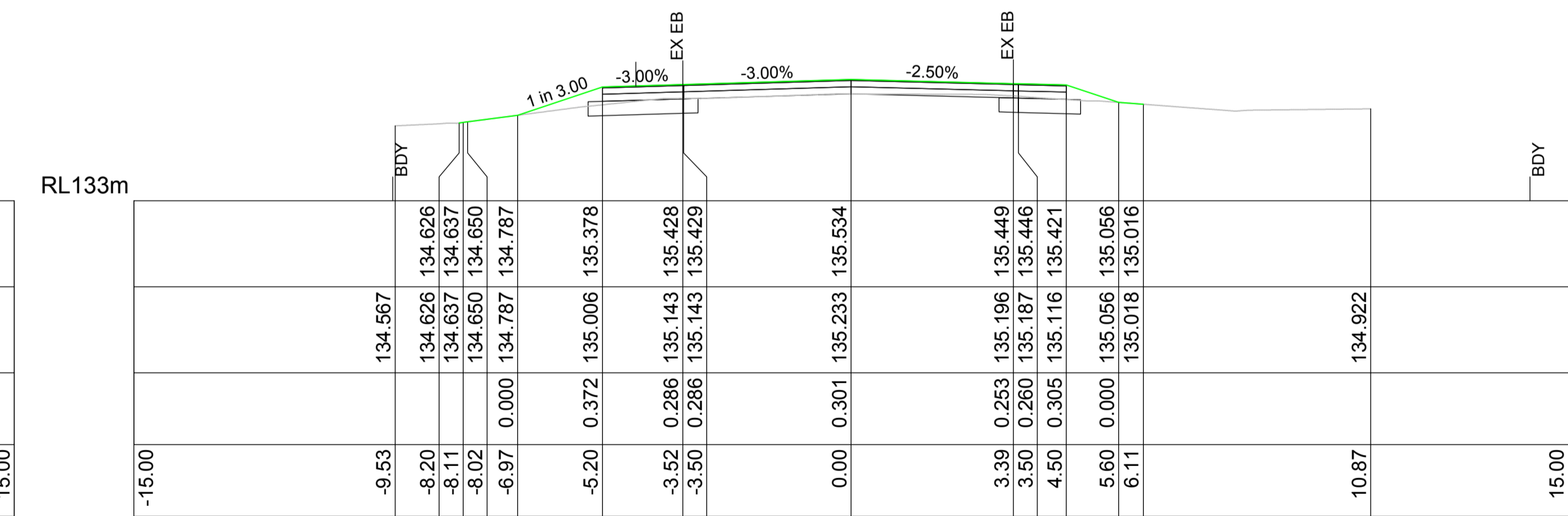
CH 500.00 m  
SANDY CREEK ROAD



CH 520.00 m  
SANDY CREEK ROAD

RL133.4m		BDY											BDY																							
DESIGN																																				
EXISTING		135.130																																		
DIFFERENCE																																				
OFFSET	-15.00	-9.30	-6.51	-6.31	-4.64	-3.66	-3.50	0.00	0.313	135.341	135.654	3.25	0.272	135.300	135.573	3.50	0.279	135.288	135.566	4.50	0.302	135.239	135.541	5.60	0.000	135.287	135.287	5.65	135.287	135.285	5.68	135.287	135.249	10.86	135.361	15.00

CH 491.64 m  
SANDY CREEK ROAD



CH 510.00 m  
SANDY CREEK ROAD

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

AL Civil Design  
GILLJESTON HEIGHTS NSW 2321  
0466 253 917

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SURVEY:	DELFS LASCELLES
DESIGN:	M.M
DRAWN:	M.M
CHECKED:	M.M
DATE:	11.08.2023
APPROVED:	M.M

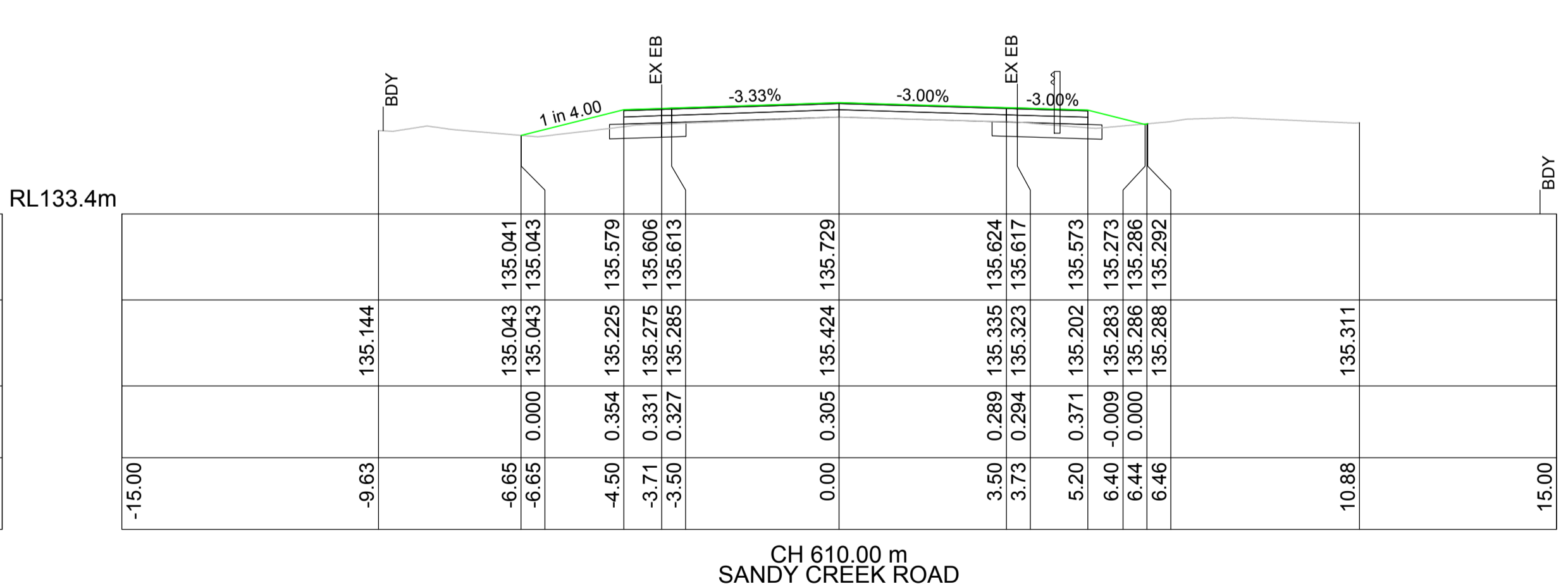
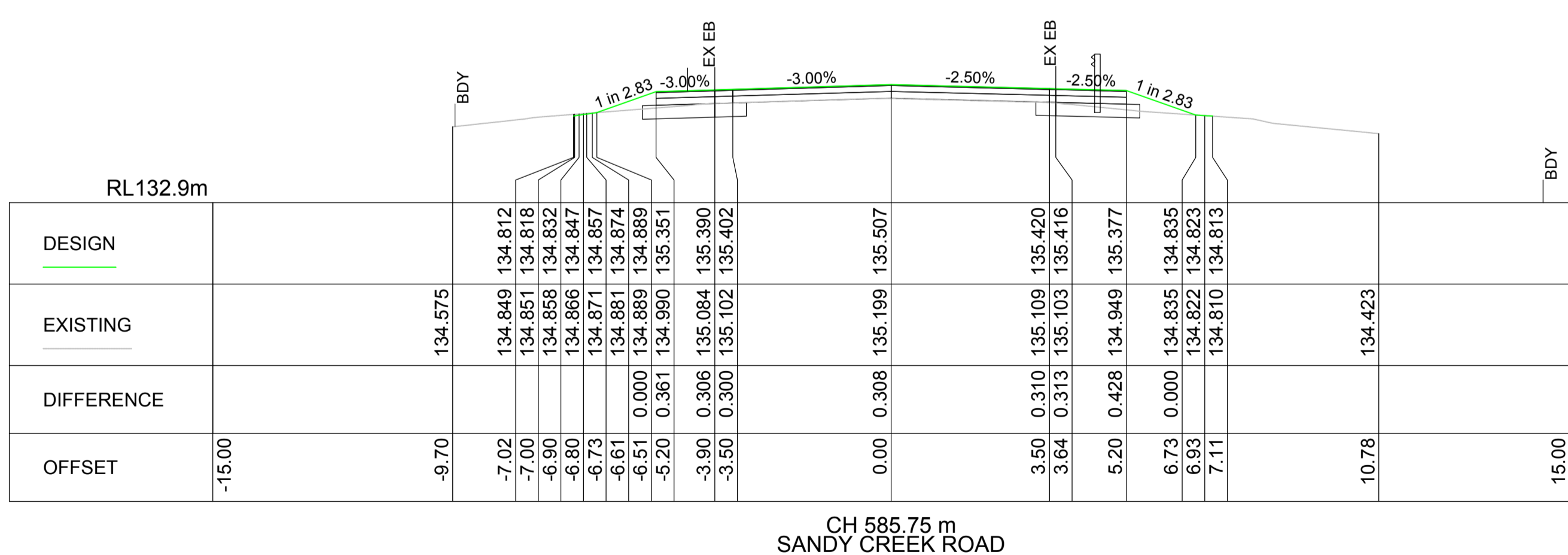
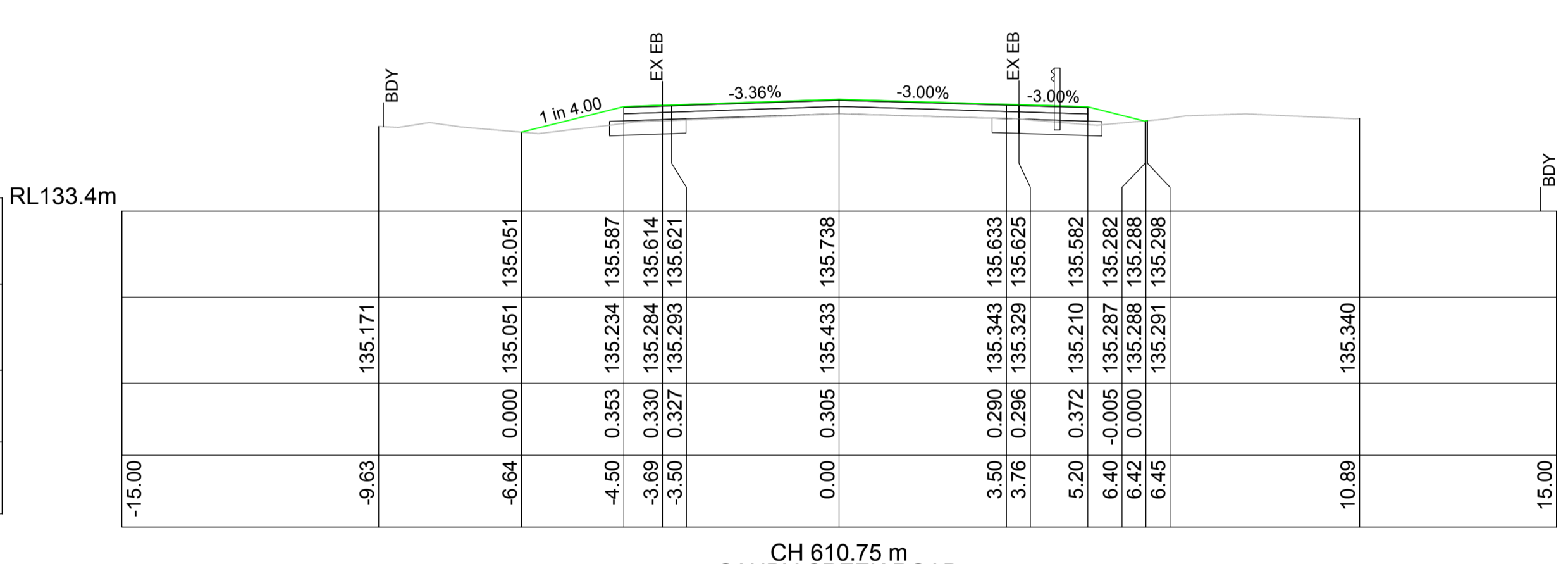
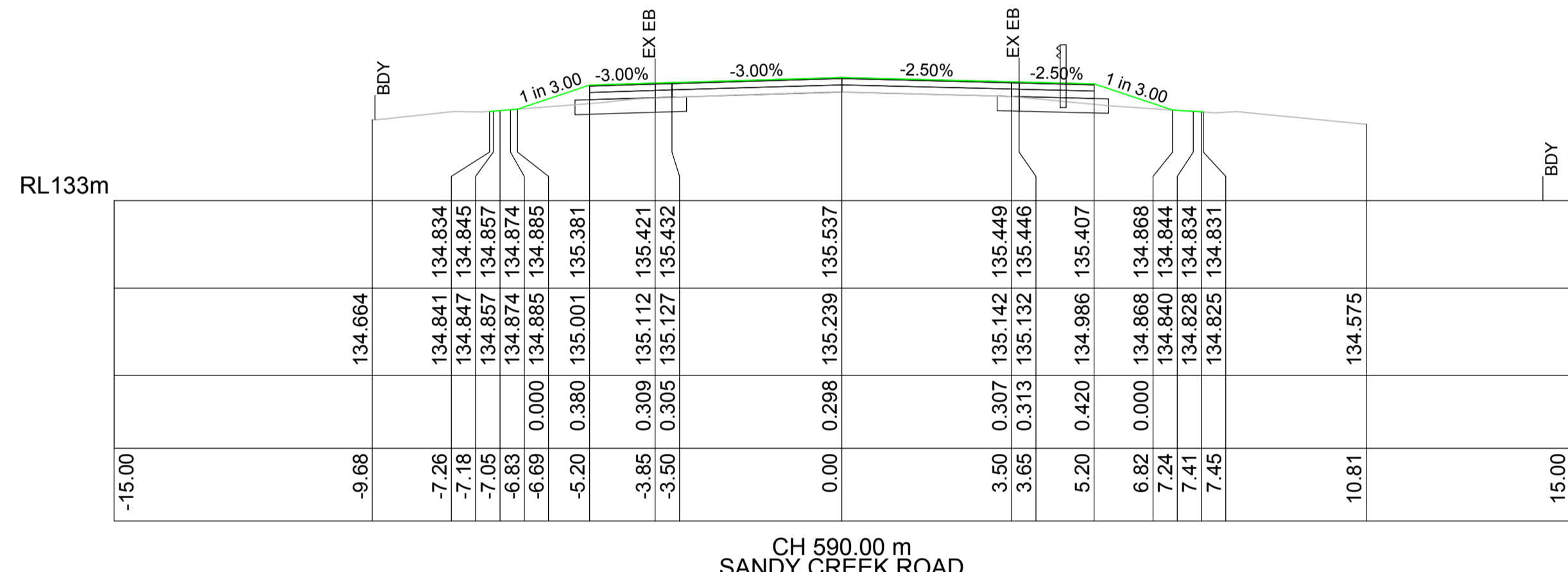
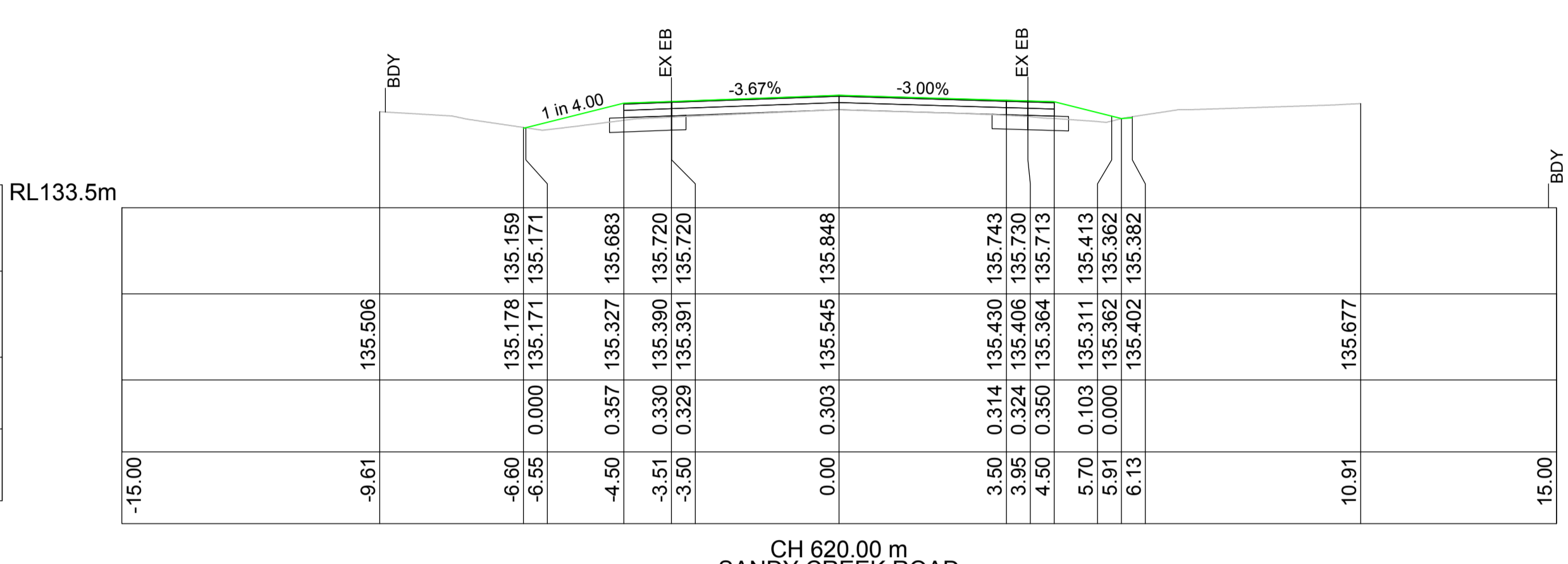
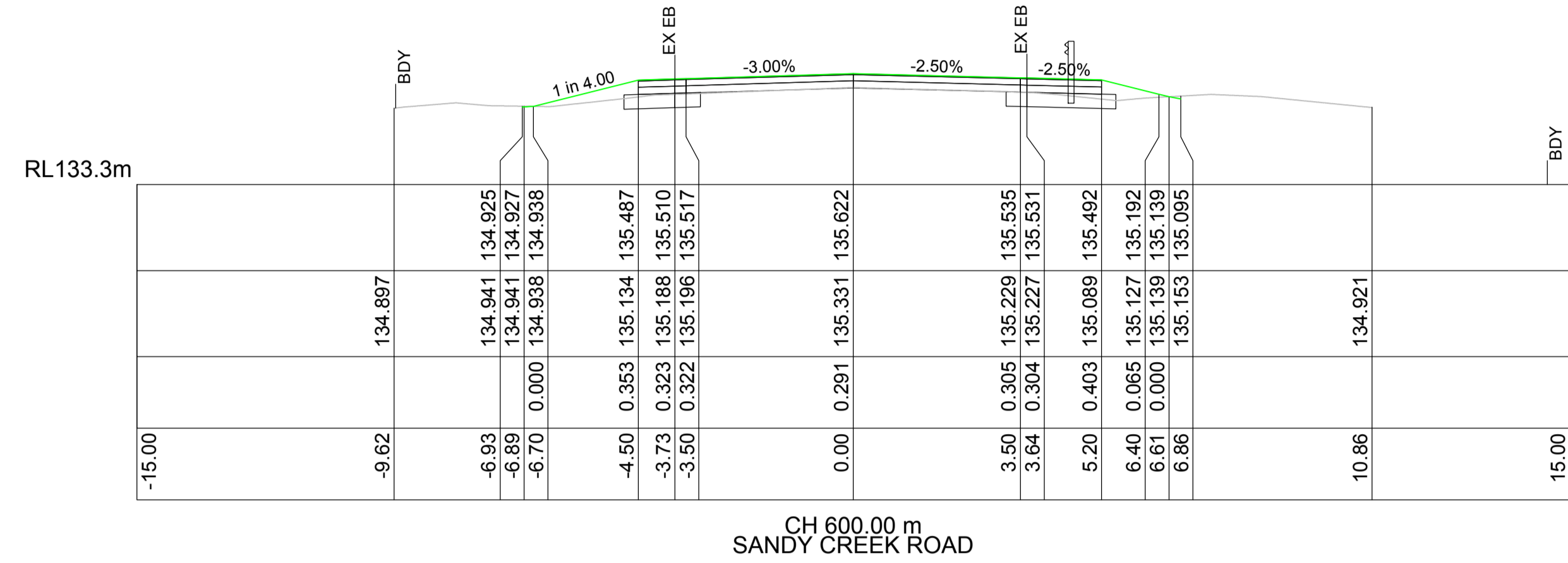
CLIENT	CESSNOCK CITY COUNCIL	
PLAN:	LONGITUDINAL SECTION	CROSS SECTION
	HORIZ. N/A	HORIZ. 1:100
	VERT. N/A	VERT. 1:100

PROJECT	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWING TITLE	CROSS SECTIONS SHEET 12 OF 72
SHEET 26 OF 116 SHEETS	

PROJECT No	AL22077	REVISION	1
DWG No	C05-26		
<b>CONSTRUCTION</b>			
 1:100 (A1)			







DESIGN	EXISTING	DIFFERENCE	OFFSET
	134.575		-15.00
	134.849		-9.70
	134.812		-7.02
	134.818		-7.00
	134.851		-6.90
	134.866		-6.80
	134.847		-6.73
	134.871		-6.61
	134.874		-6.51
	134.889		-6.11
	134.889		-5.20
	134.990		-3.90
	135.084		-3.50
	135.102		0.00
	135.199		3.50
	135.109		3.64
	135.103		5.20
	135.420		6.73
	134.835		6.93
	134.822		7.11
	134.810		10.78
	134.813		15.00

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23



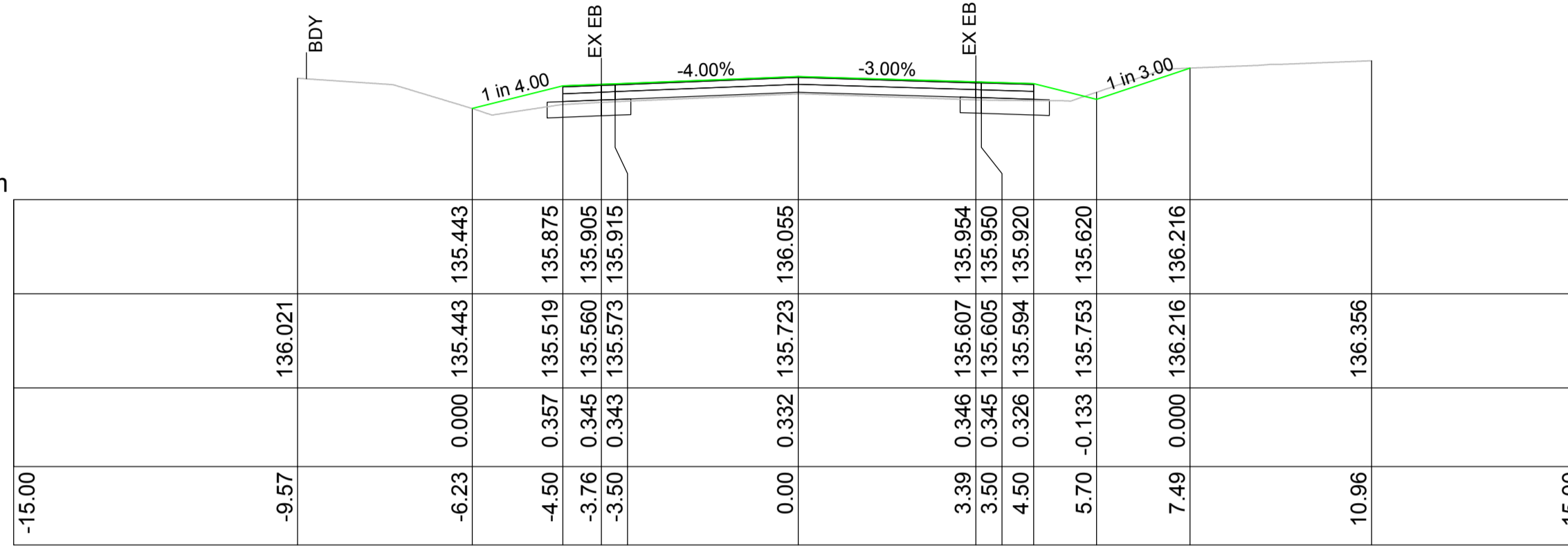
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SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M		
DRAWN:	M.M		
CHECKED:	M.M		
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION HORIZ. N/A VERT. N/A
APPROVED:	M.M	CROSS SECTION:	HORIZ. 1:100 VERT. 1:100

PROJECT:	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWING TITLE:	CROSS SECTIONS SHEET 15 OF 72
<b>SHEET 29 OF 116 SHEETS</b>	

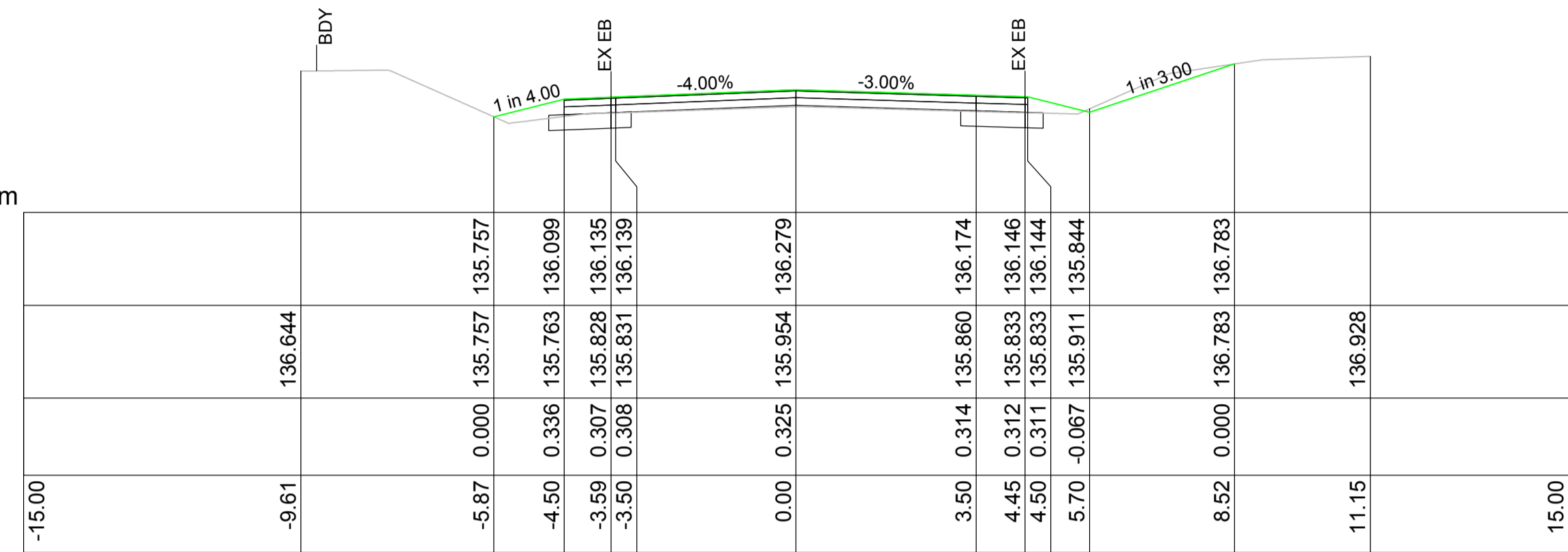
PROJECT No:	AL22077	REVISION:	1
DWG No:	C05-29		
<b>CONSTRUCTION</b>			

RL133.7m



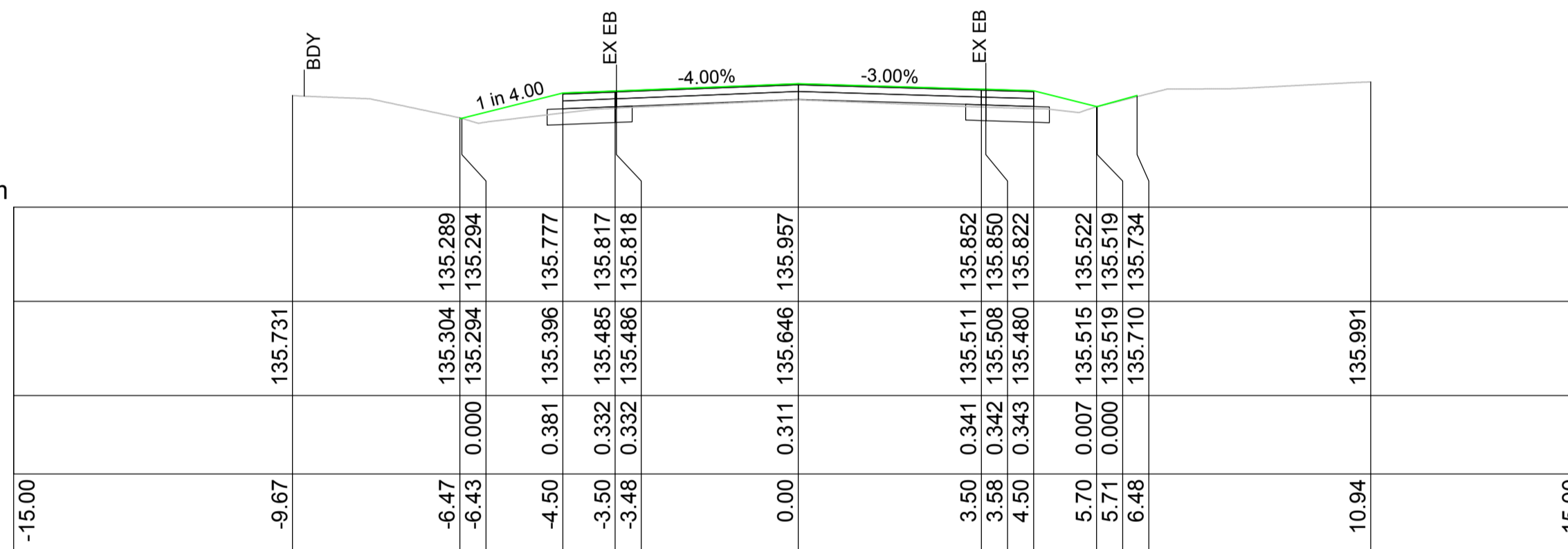
CH 640.00 m SANDY CREEK ROAD

RL133.9m



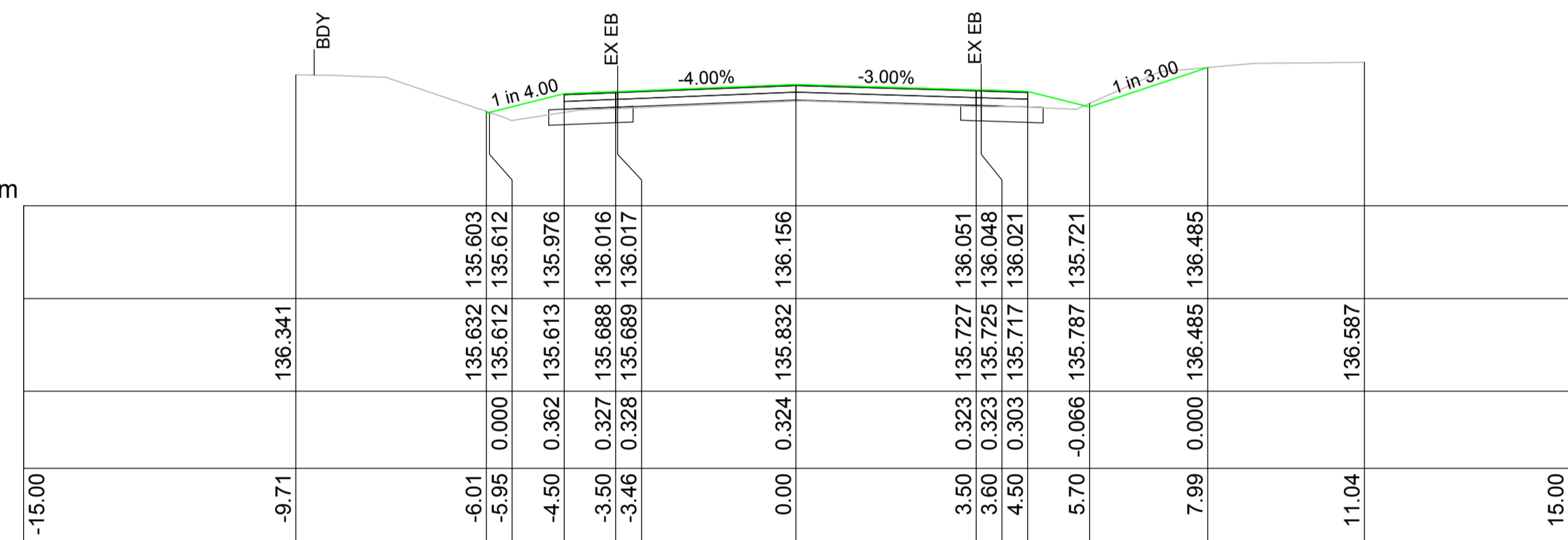
CH 660.00 m SANDY CREEK ROAD

RL133.6m



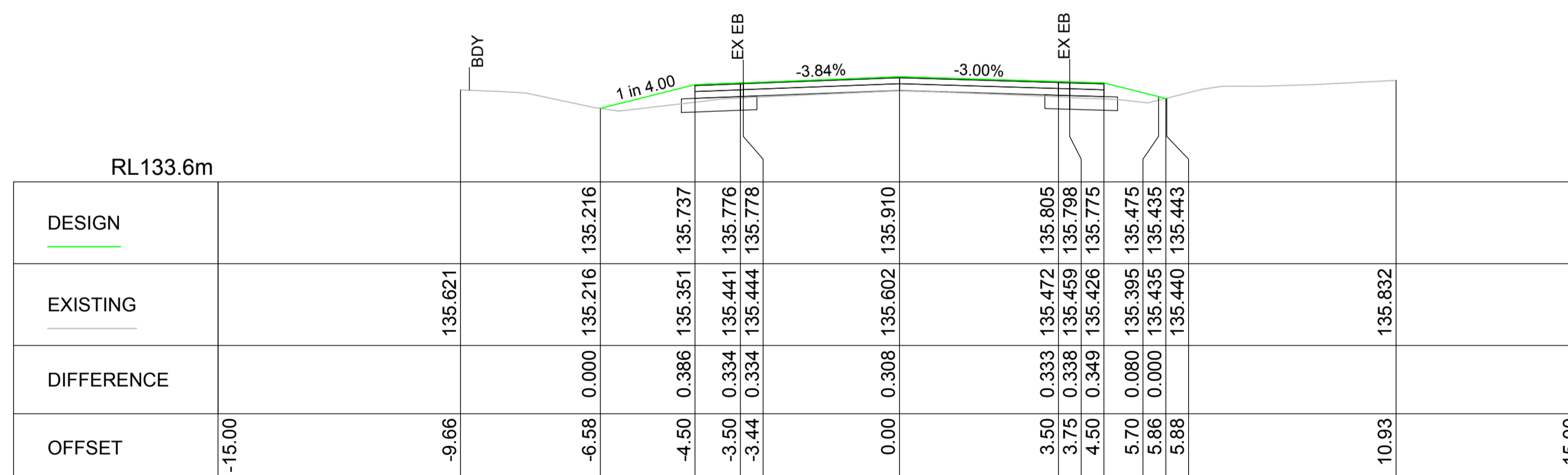
CH 630.00 m SANDY CREEK ROAD

RL133.8m



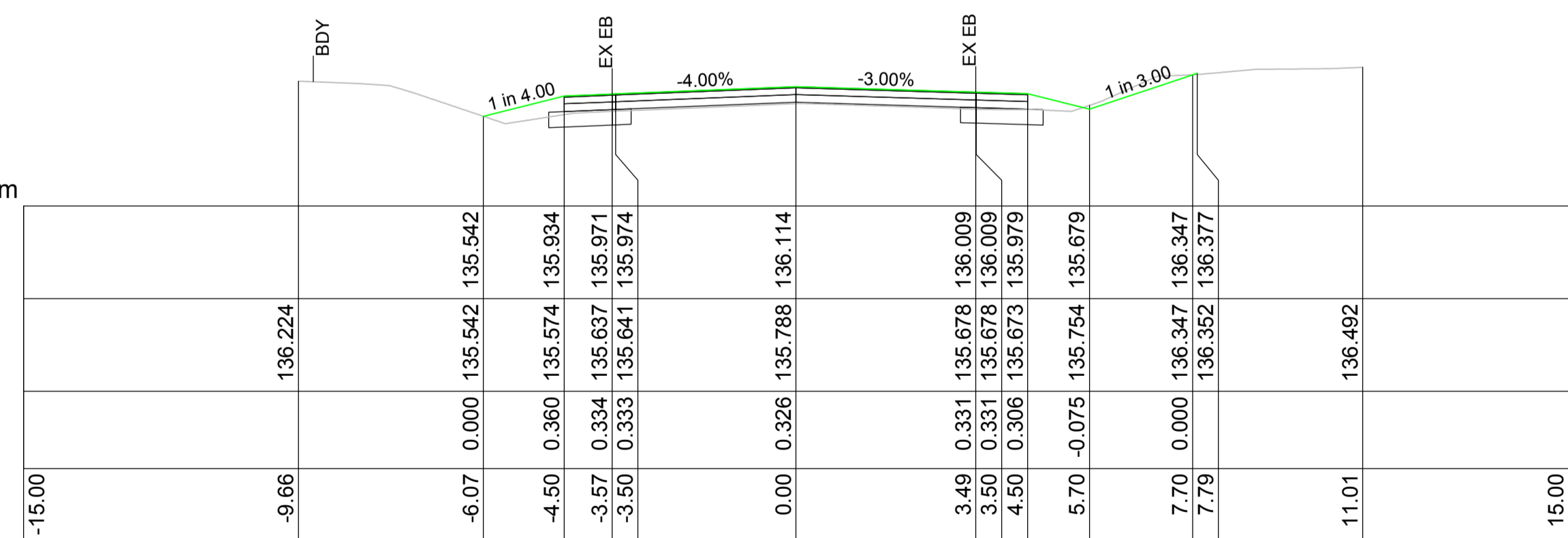
CH 650.00 m SANDY CREEK ROAD

RL133.6m



CH 625.17 m SANDY CREEK ROAD

RL133.8m



CH 645.99 m SANDY CREEK ROAD

	DESIGN	EXISTING	DIFFERENCE	OFFSET
-15.00	135.621	135.621	0.000	-9.66
0.00	135.216	135.216	0.000	-6.58
3.50	135.351	135.351	0.386	-4.50
3.75	135.737	135.737	0.334	-3.50
4.50	135.776	135.776	0.334	-3.44
5.70	135.910	135.910	0.308	0.00
7.49	135.805	135.805	0.333	3.50
10.96	135.798	135.798	0.349	3.75
15.00	135.775	135.775	0.308	4.50
	135.475	135.475	0.080	5.70
	135.435	135.435	0.000	5.86
	135.443	135.443	0.000	5.88
10.93	135.832	135.832	0.000	10.93

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

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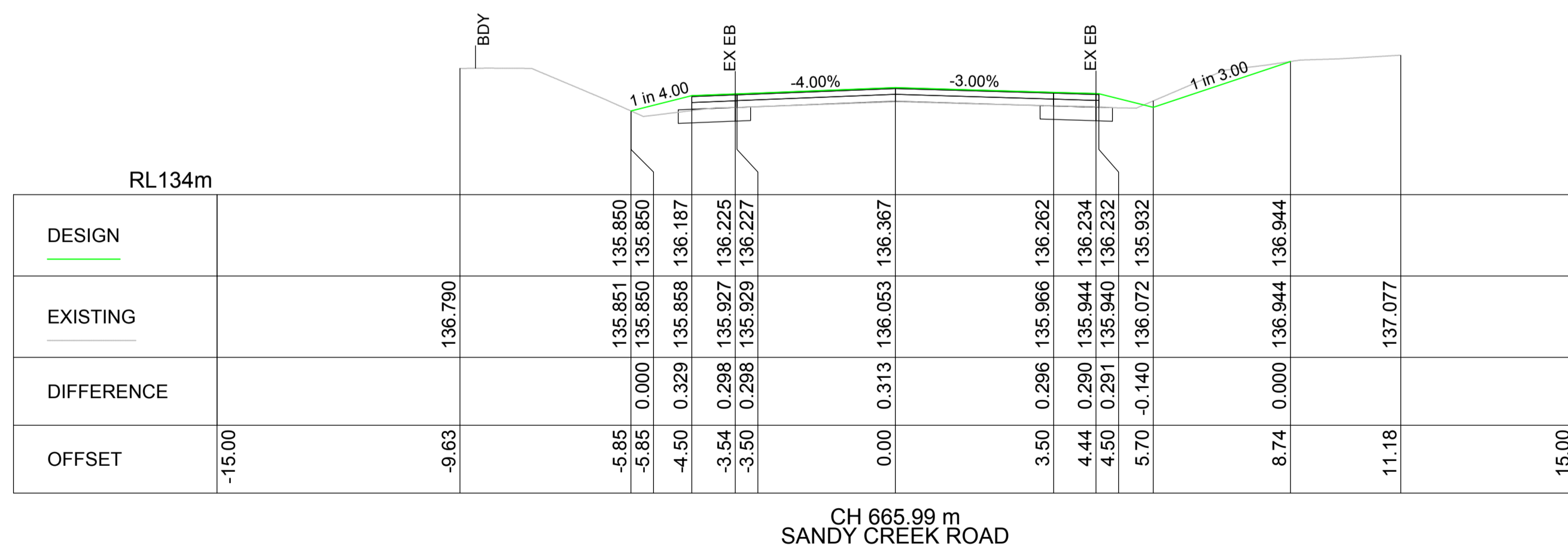
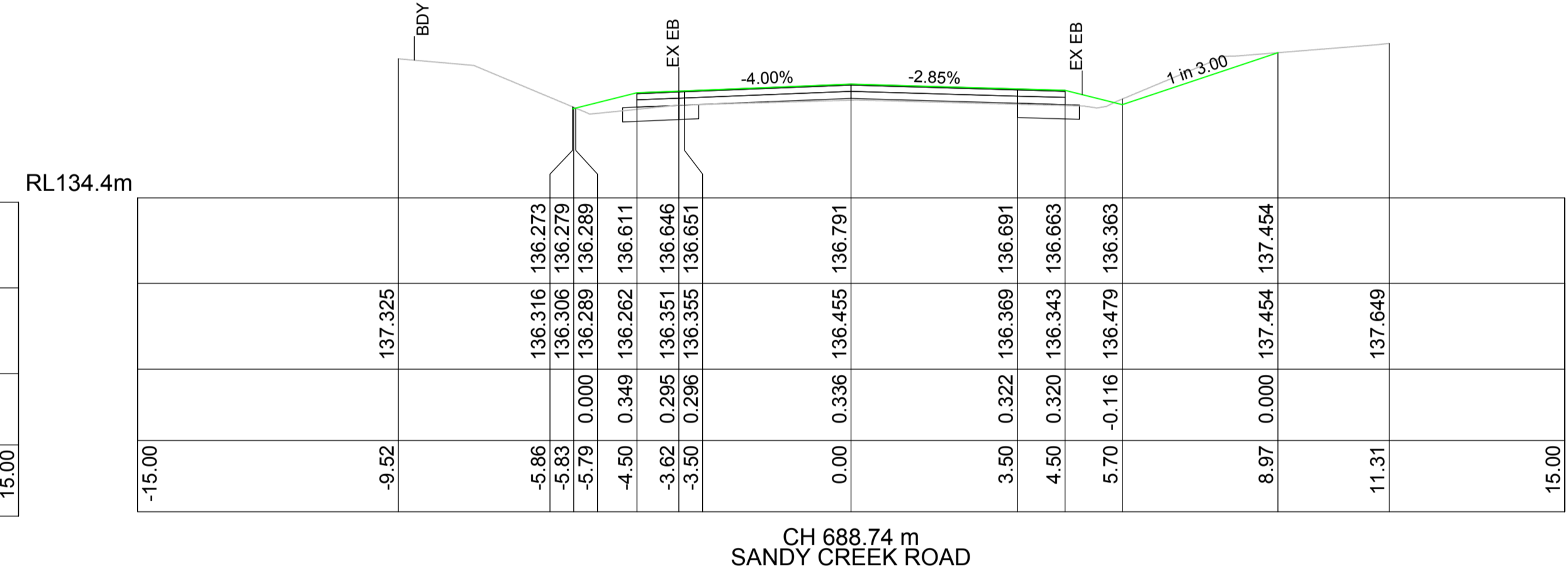
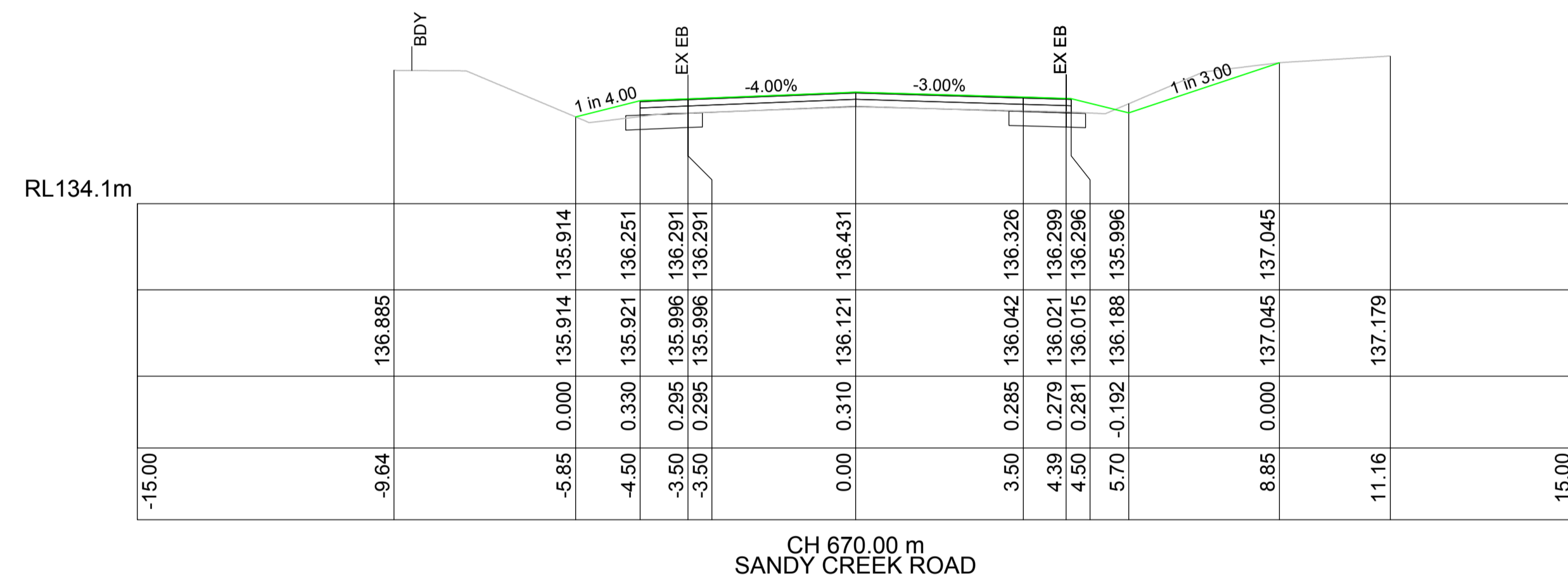
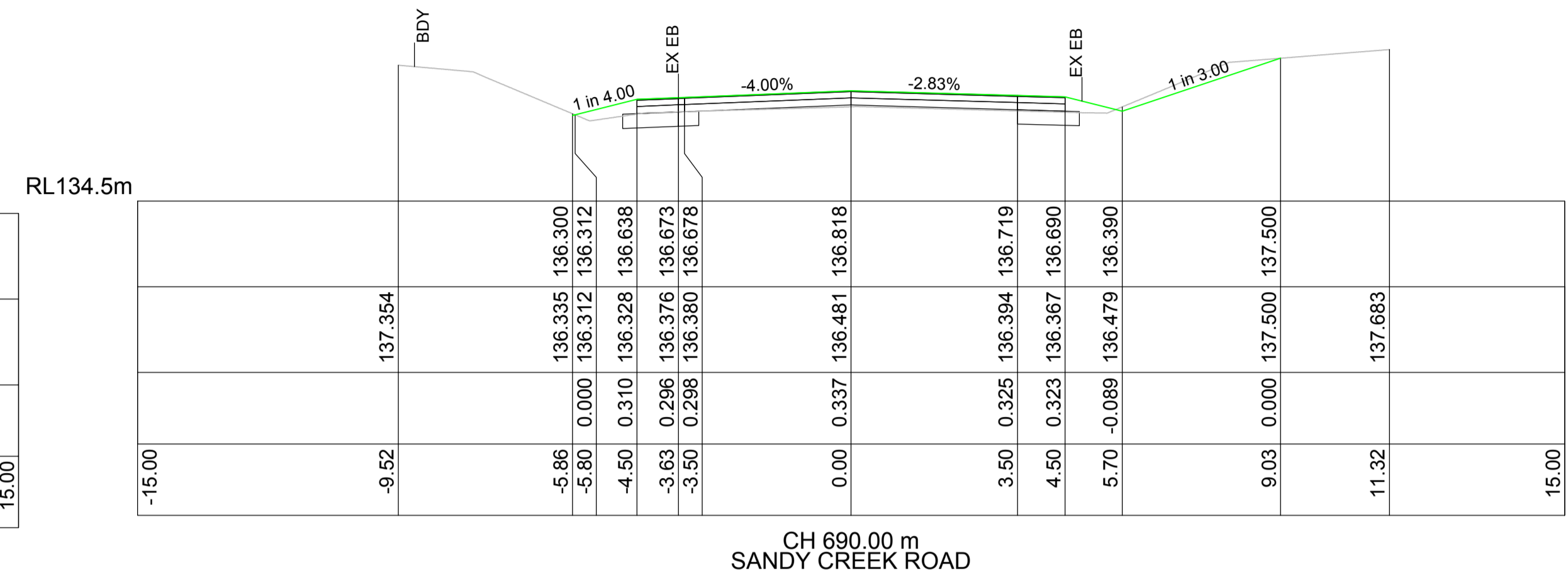
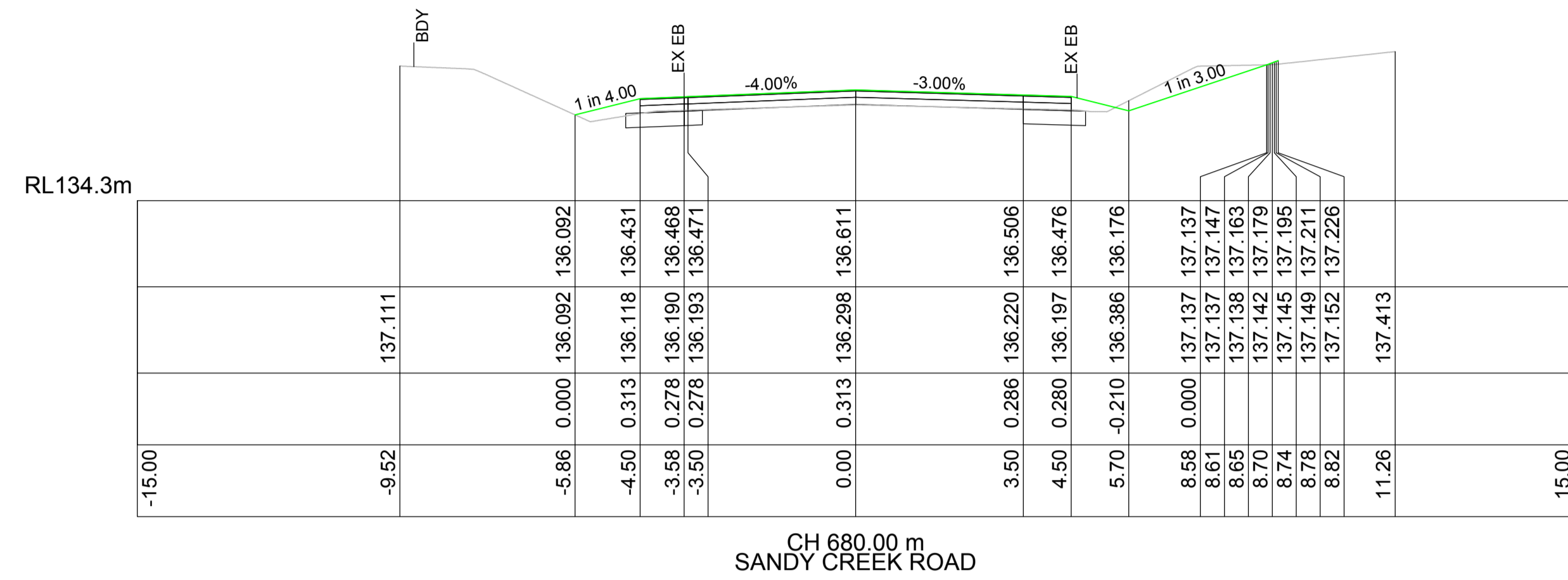
SURVEY: DELFS LASCELLES	CLIENT: CESSNOCK CITY COUNCIL
DESIGN: M.M	
DRAWN: M.M	
CHECKED: M.M	
DATE: 11.08.2023	PLAN: LONGITUDINAL SECTION CROSS SECTION
APPROVED: M.M	1:100 (A1) HORIZ. N/A HORIZ. 1:100 VERT. N/A VERT. 1:100

PROJECT: LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG

DRAWING TITLE: CROSS SECTIONS SHEET 16 OF 72

SHEET 30 OF 116 SHEETS

PROJECT No: AL22077  
 DWG No: C05-30  
 REVISION: 1  
 CONSTRUCTION  
 2 1 0 2 4 6  
 1:100 (A1)



DESIGN		135.851	135.850	135.850	136.187	136.225	136.227	136.367	136.262	136.234	135.992	136.944	136.944	136.619	136.635	136.651	136.836
EXISTING		136.790	135.850	135.850	136.187	136.225	136.227	136.367	136.262	136.234	135.992	136.944	136.944	136.619	136.635	136.651	136.836
DIFFERENCE			0.000	0.329	0.298	0.298	0.329	0.296	0.291	0.291	0.140	0.000	0.000	0.000	0.000	0.000	0.000
OFFSET	-15.00	-9.63	-5.85	-5.85	-4.50	-3.54	-3.50	0.00	3.50	4.44	4.50	5.70	8.74	11.18	15.00		

1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE



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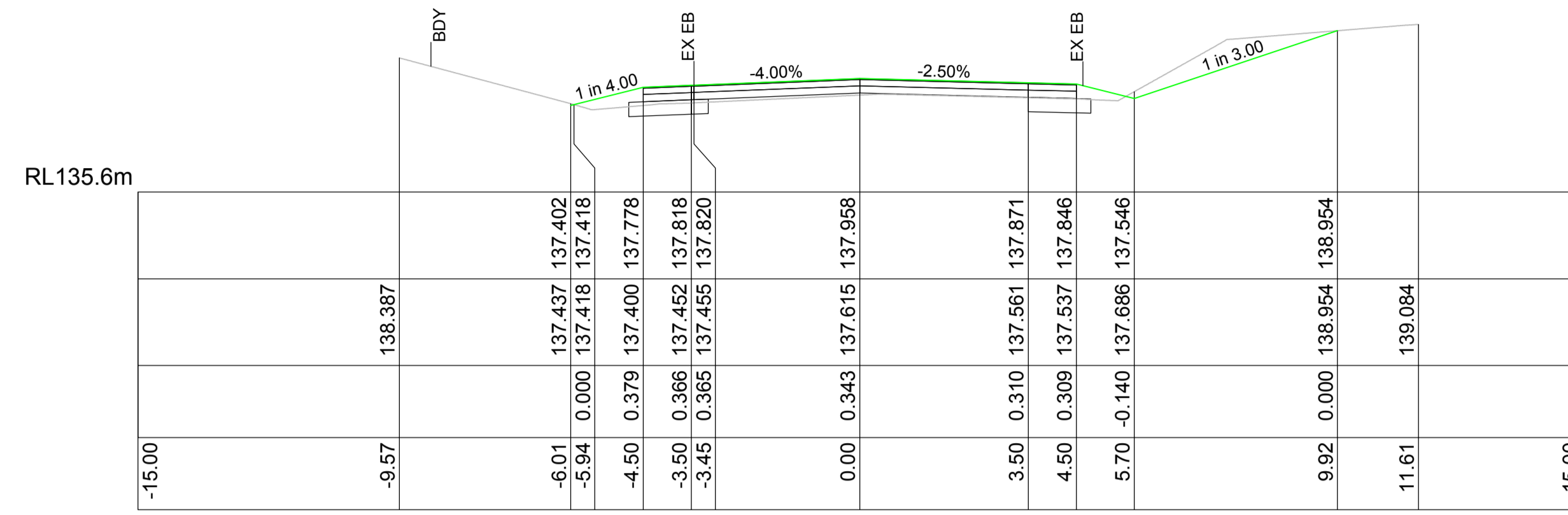
SURVEY:	DELFS LASCELLES	CLIENT	CESSNOCK CITY COUNCIL
DESIGN:	M.M		
DRAWN:	M.M		
CHECKED:	M.M		
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION
APPROVED:	M.M	1:100 (A1)	HORIZ. N/A VERT. N/A

PROJECT	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWING TITLE	CROSS SECTIONS SHEET 17 OF 72
SHEET 31 OF 116 SHEETS	

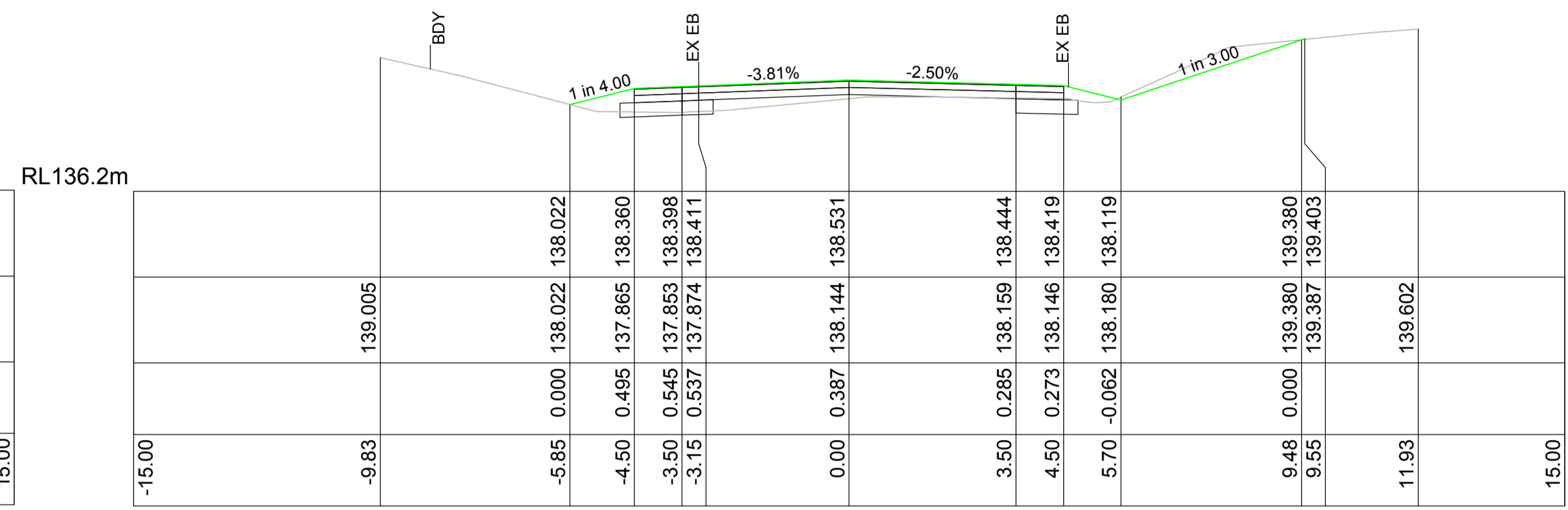
PROJECT No	AL22077	REVISION	1
DWG No	C05-31		
CONSTRUCTION			
2 1 0 2 4 6 1:100 (A1)			



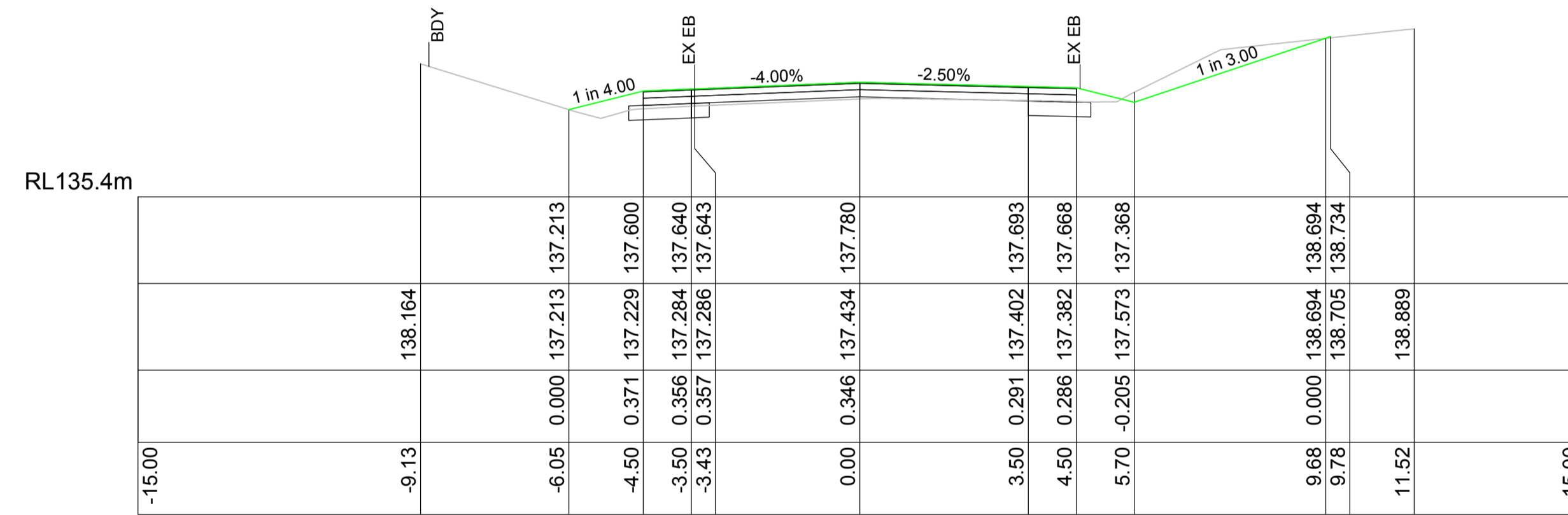




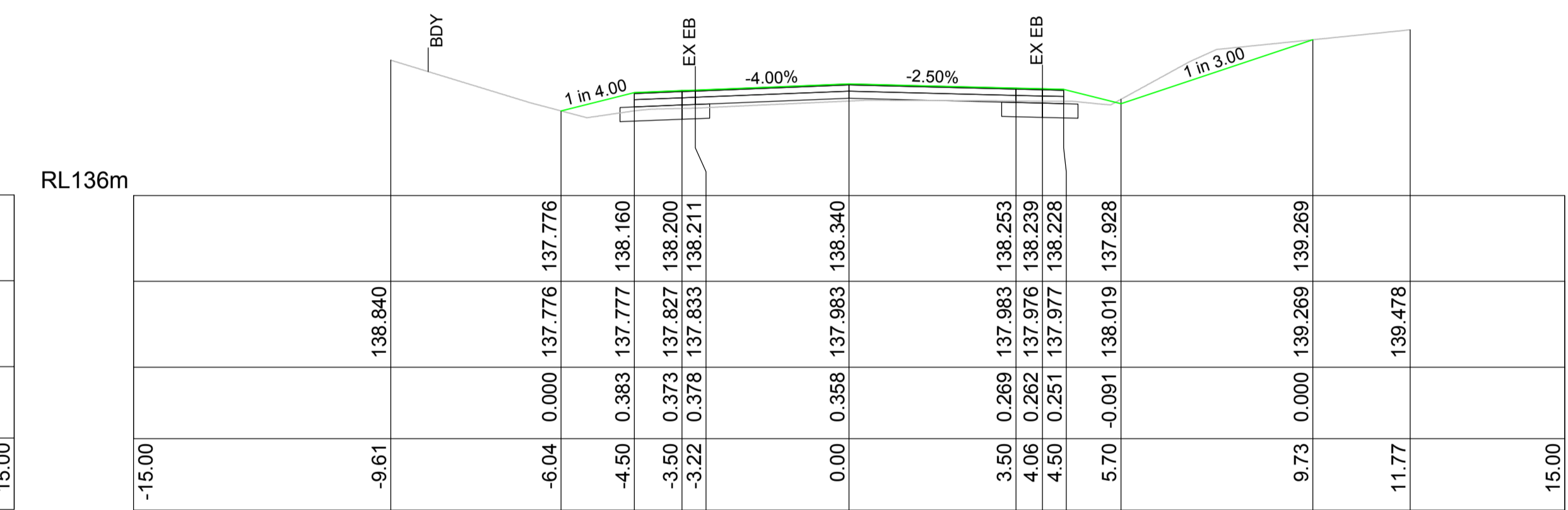
CH 750.00 m  
SANDY CREEK ROAD



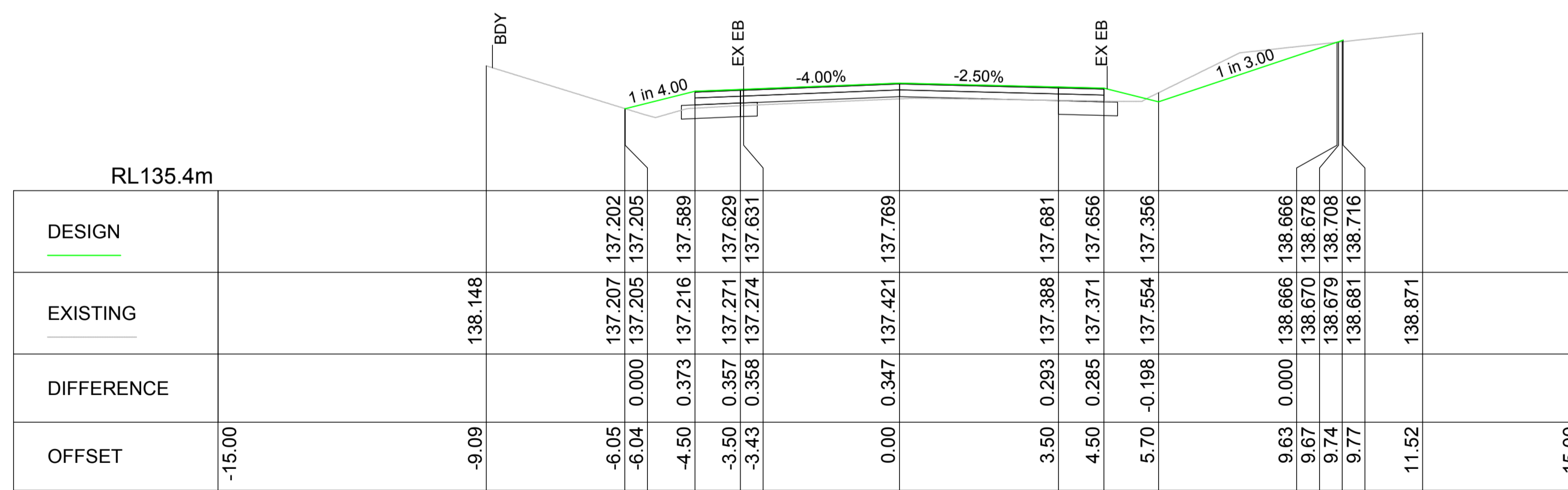
CH 780.00 m  
SANDY CREEK ROAD



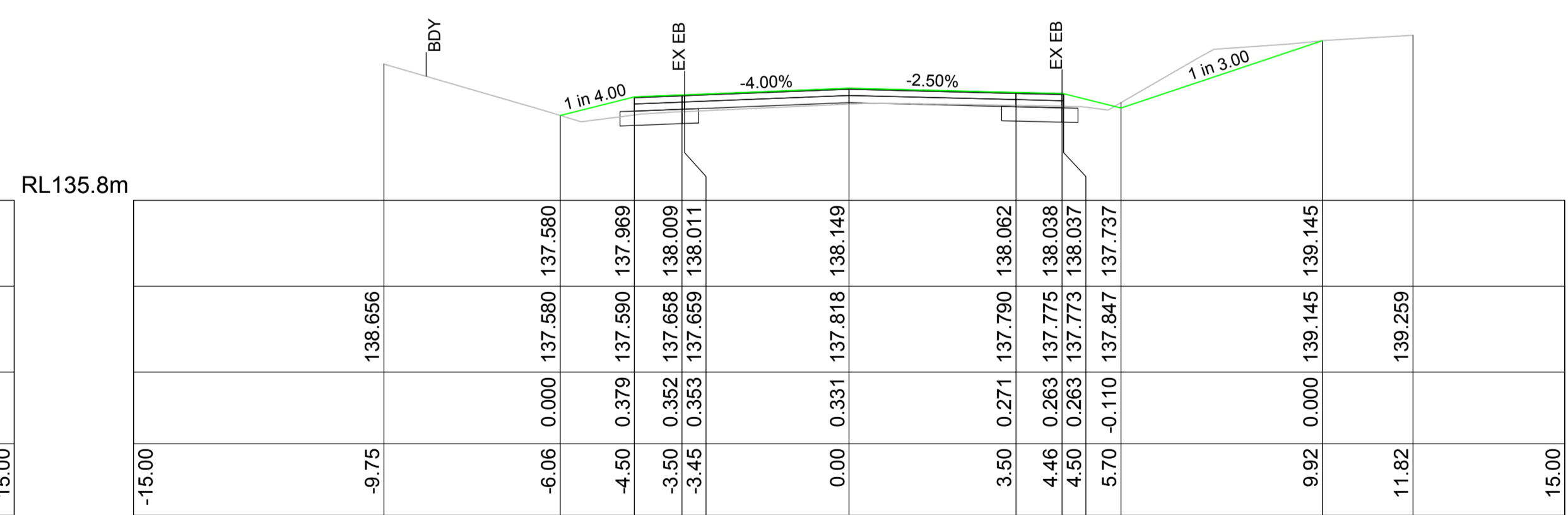
CH 740.67 m  
SANDY CREEK ROAD



CH 770.00 m  
SANDY CREEK ROAD



CH 740.00 m  
SANDY CREEK ROAD



CH 760.00 m  
SANDY CREEK ROAD

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

AL Civil Design  
5 Yew Street  
GILLIESTON HEIGHTS NSW 2321  
0466 253 917

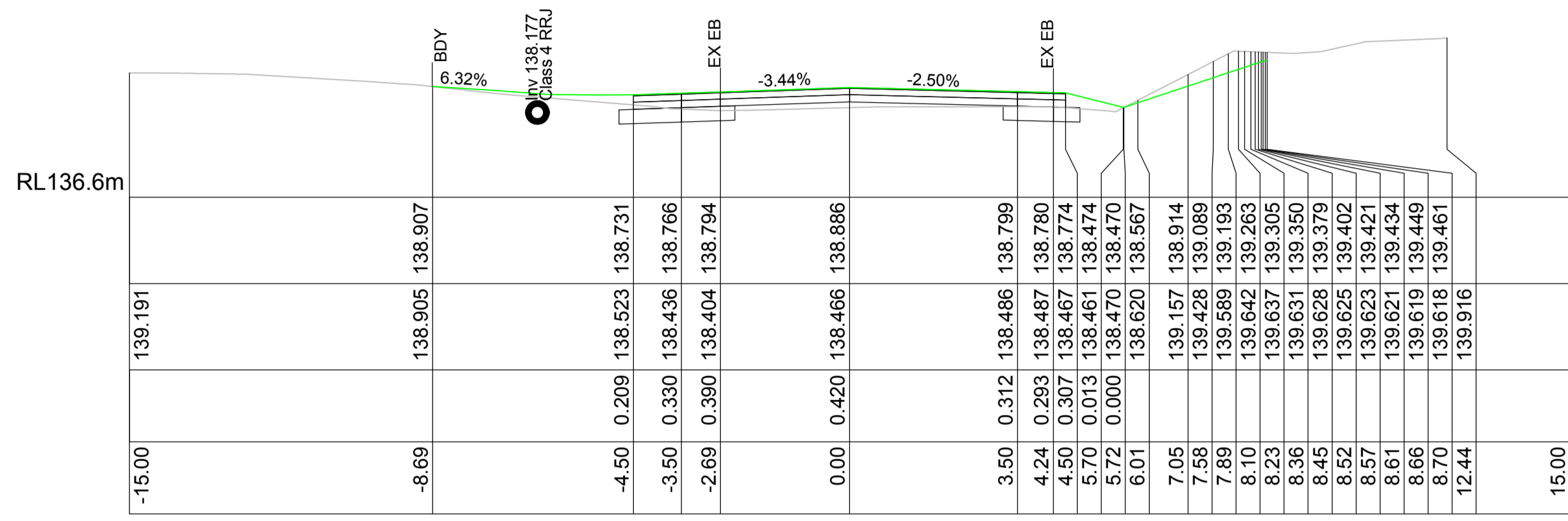
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SURVEY:	DELFS LASCELLES
DESIGN:	M.M
DRAWN:	M.M
CHECKED:	M.M
DATE:	11.08.2023
APPROVED:	M.M

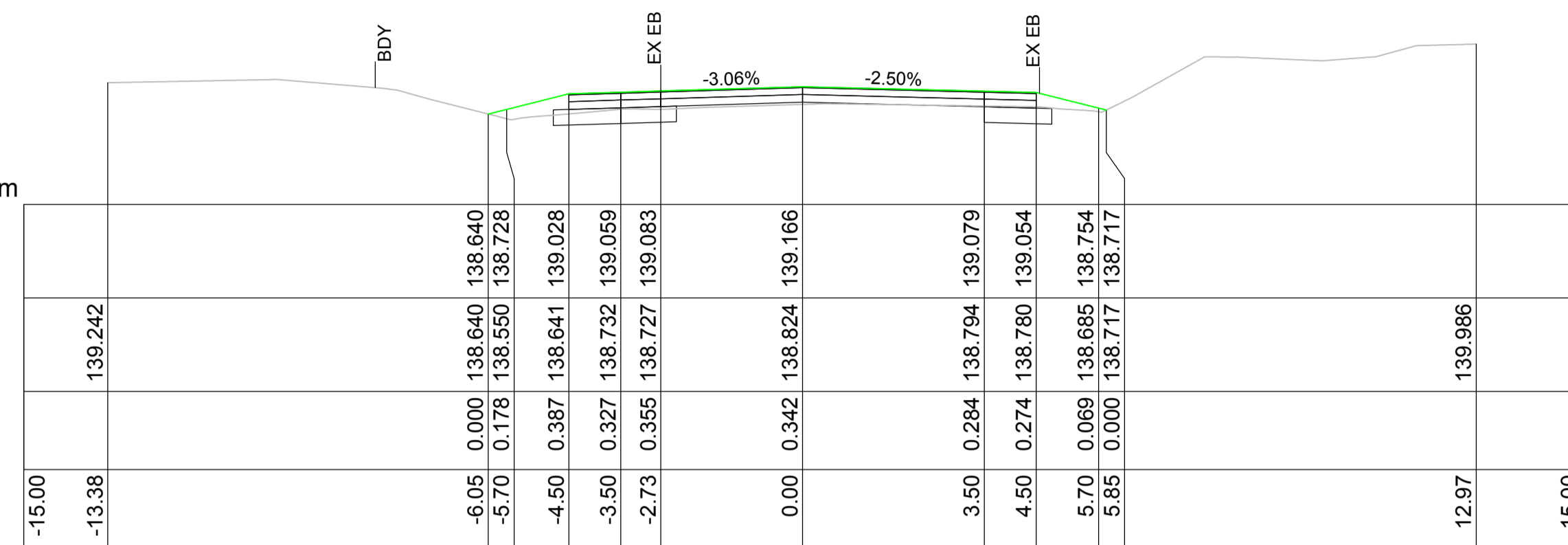
CLIENT	CESSNOCK CITY COUNCIL	
PLAN:	LONGITUDINAL SECTION	CROSS SECTION
	HORIZ. N/A	HORIZ. 1:100
	VERT. N/A	VERT. 1:100

PROJECT	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWING TITLE	CROSS SECTIONS SHEET 19 OF 72
SHEET 33 OF 116 SHEETS	

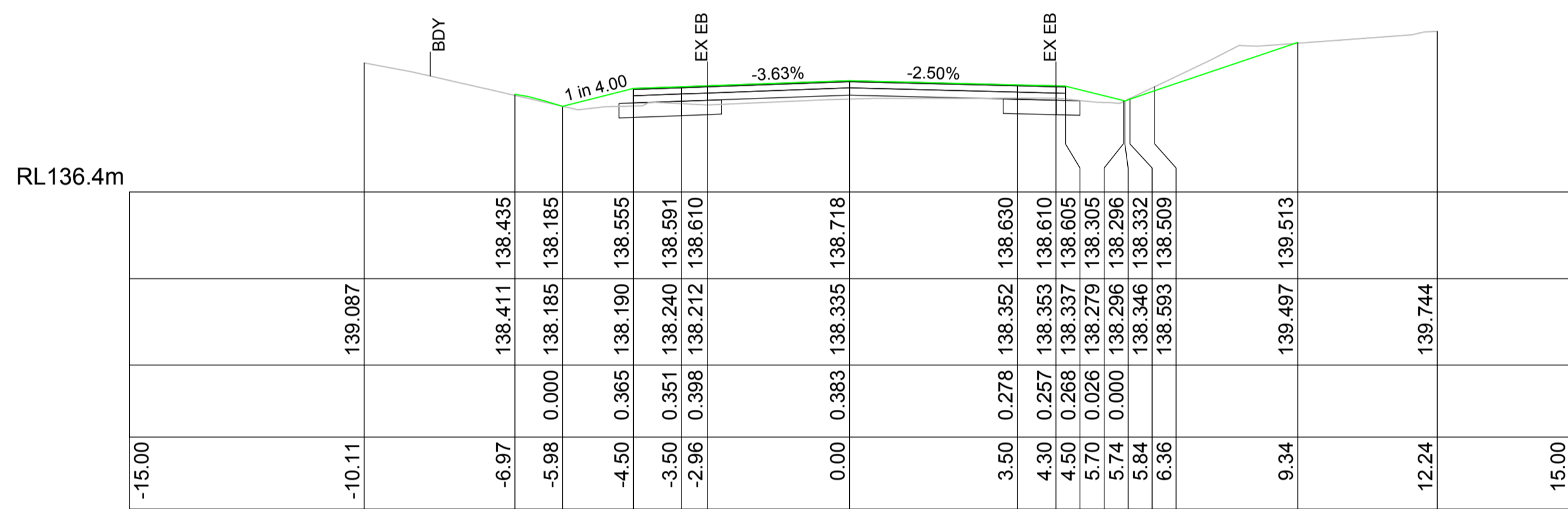
PROJECT No	AL22077	REVISION	1
DWG No	C05-33		
<b>CONSTRUCTION</b>			
 1:100 (A1)			



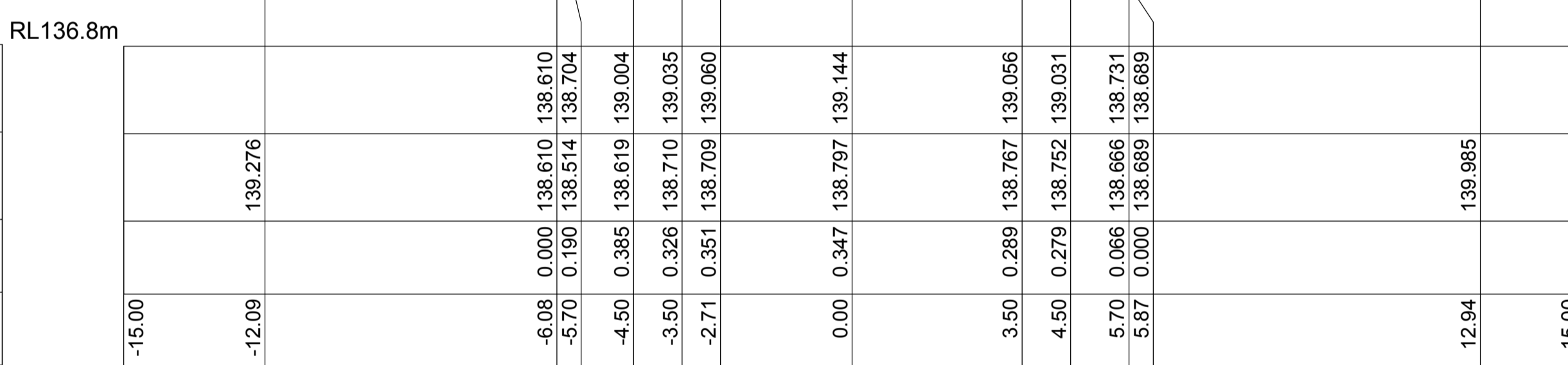
CH 800.00 m  
SANDY CREEK ROAD



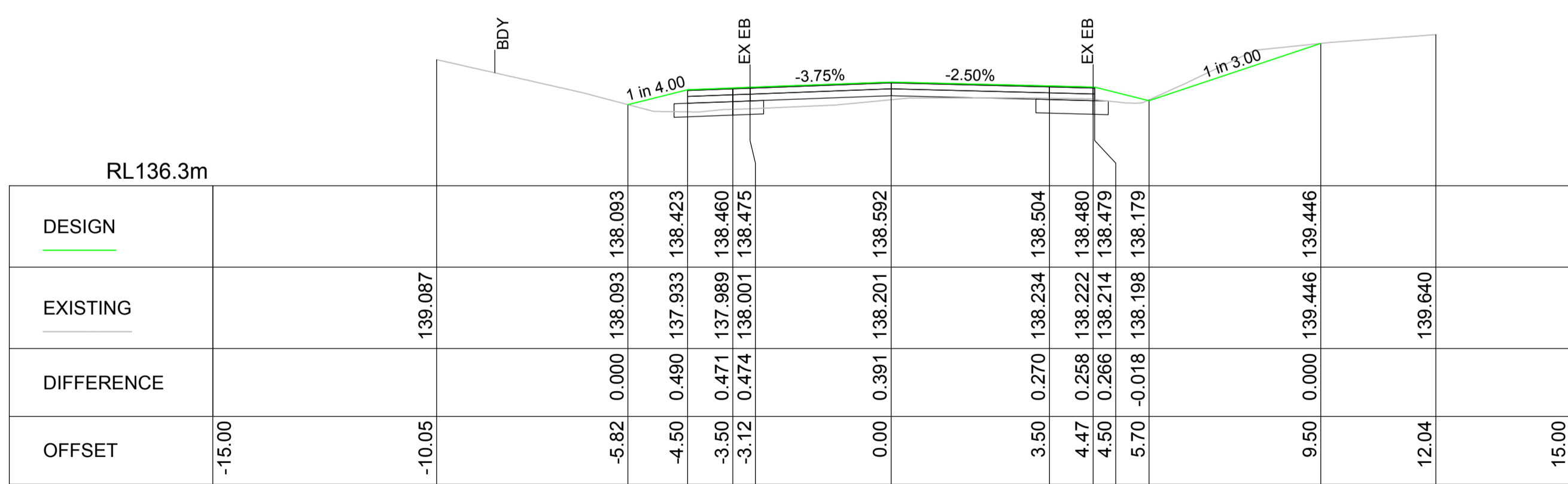
CH 820.00 m  
SANDY CREEK ROAD



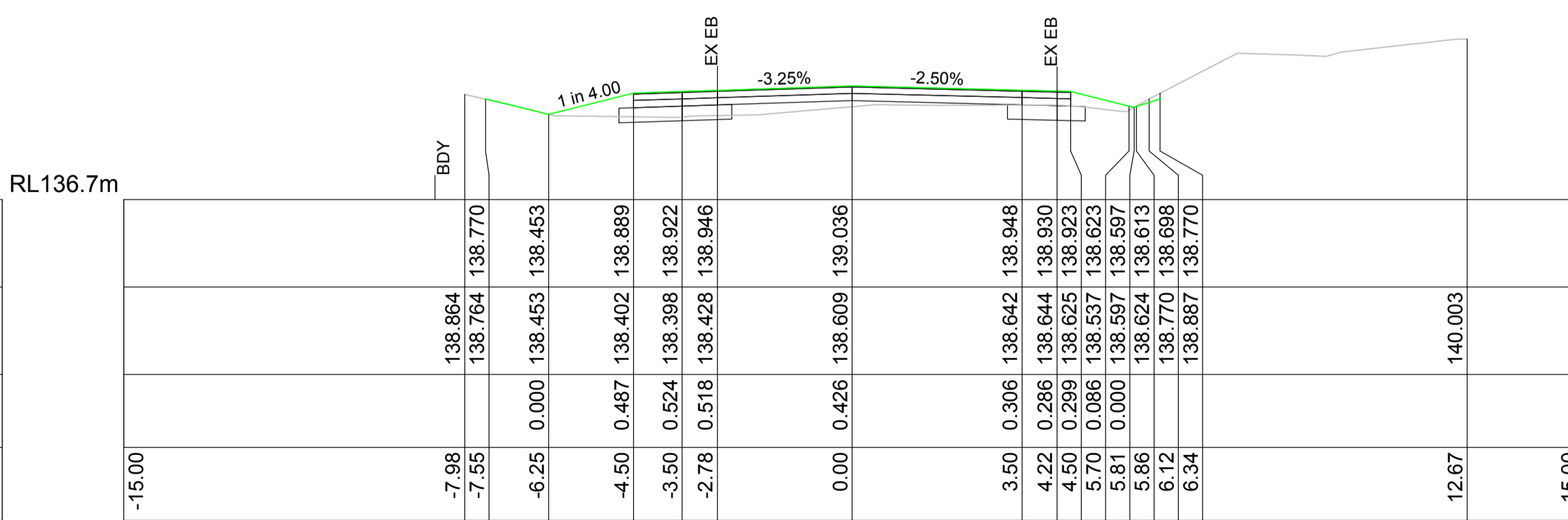
CH 790.00 m  
SANDY CREEK ROAD



CH 818.17 m  
SANDY CREEK ROAD



CH 783.17 m  
SANDY CREEK ROAD



CH 810.00 m  
SANDY CREEK ROAD

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

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SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M		
DRAWN:	M.M		
CHECKED:	M.M		
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION HORIZ. N/A VERT. N/A
APPROVED:	M.M	CROSS SECTION:	HORIZ. 1:100 VERT. 1:100

PROJECT  
**LOCAL ROAD RENEWAL  
STAGE 1 & STAGE 2  
SANDY CREEK ROAD, QUORROBOLONG**

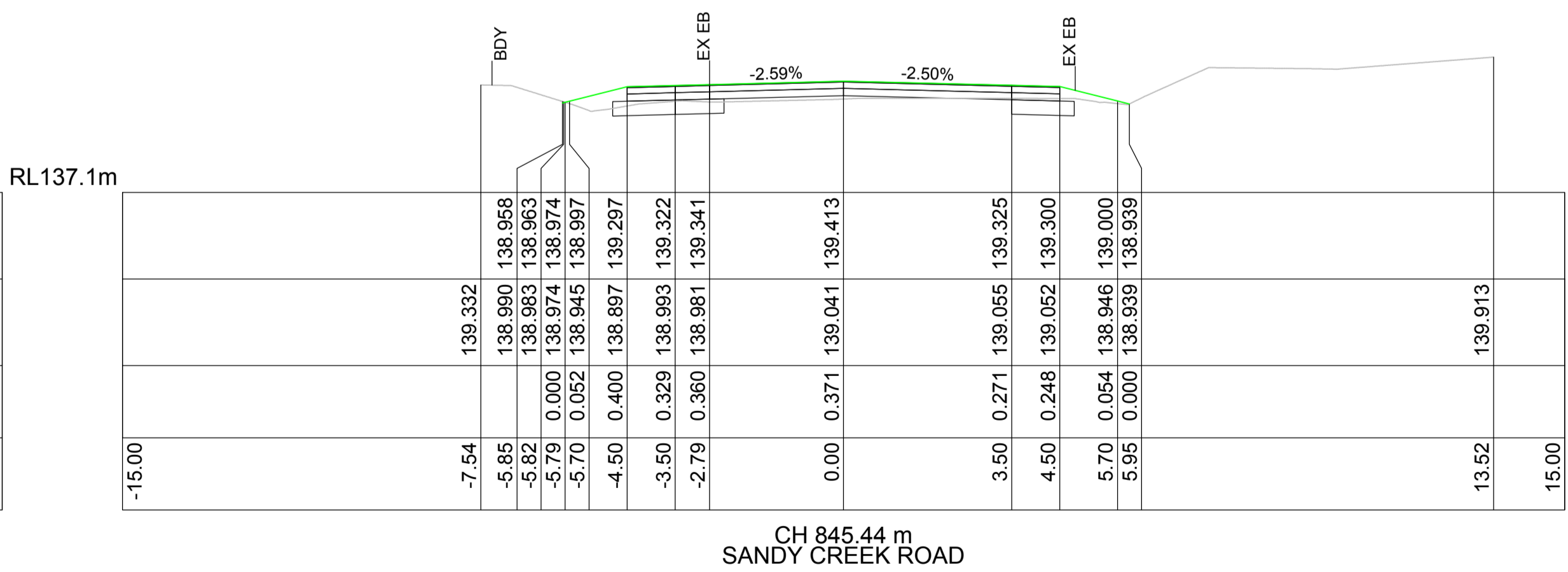
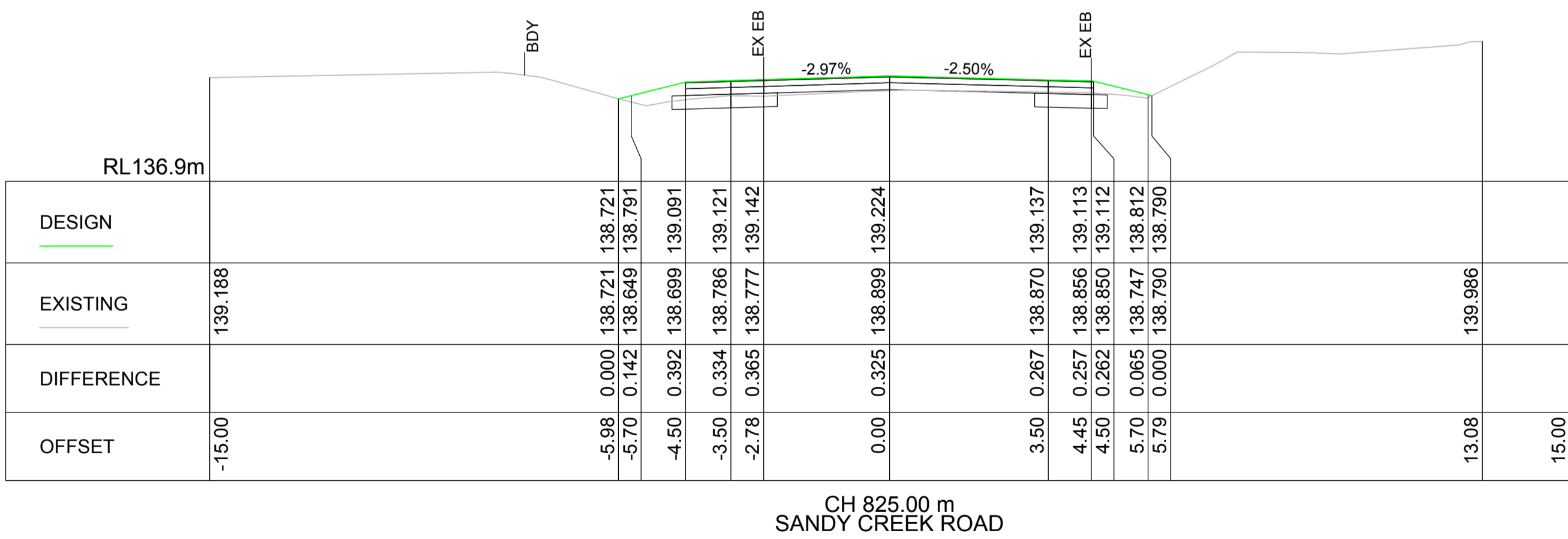
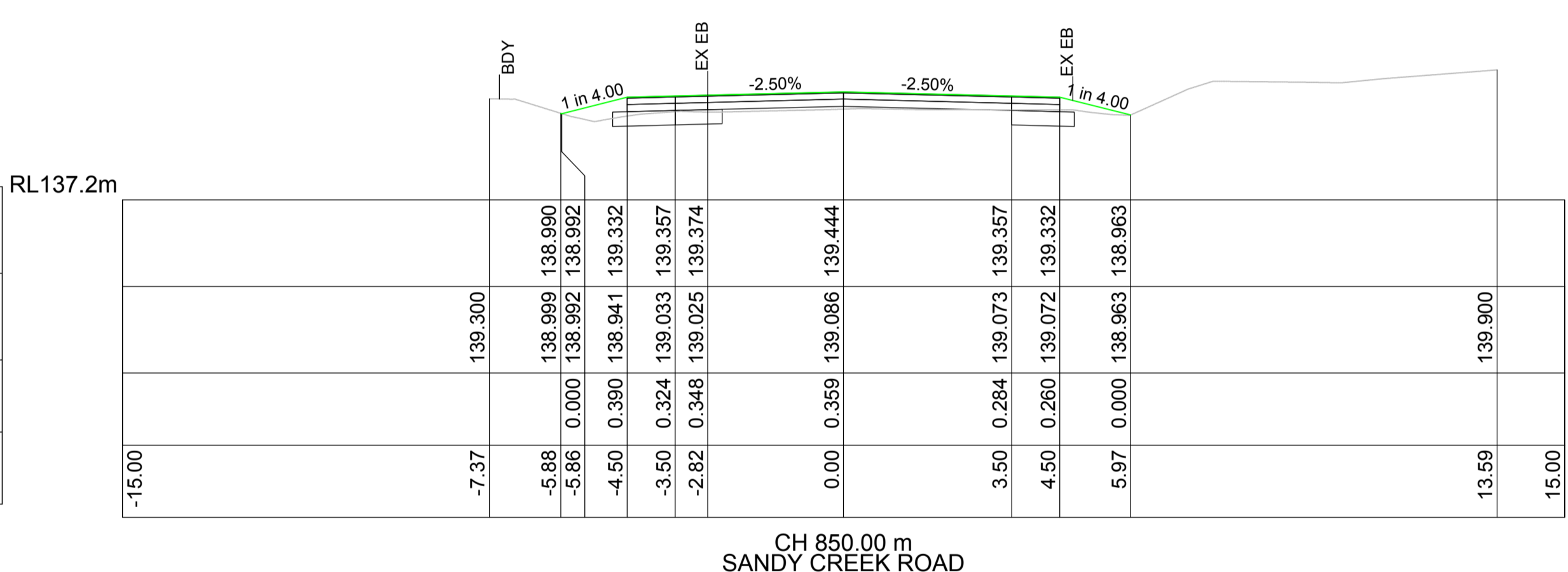
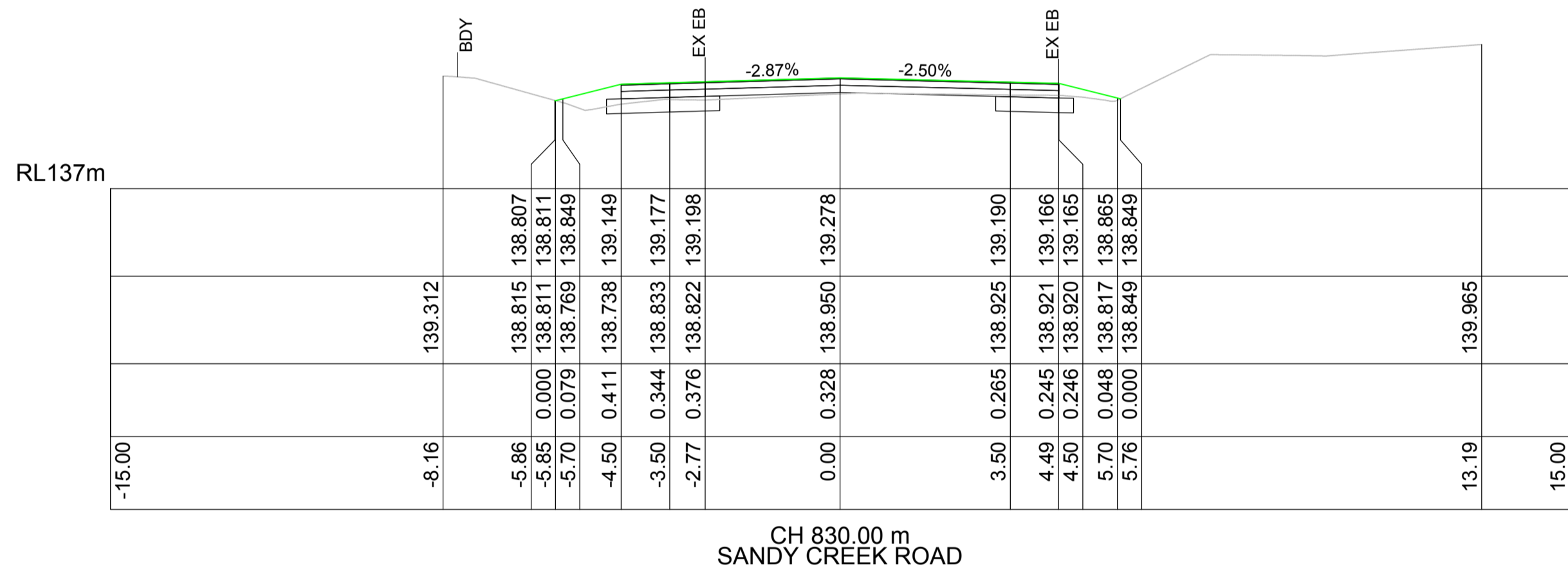
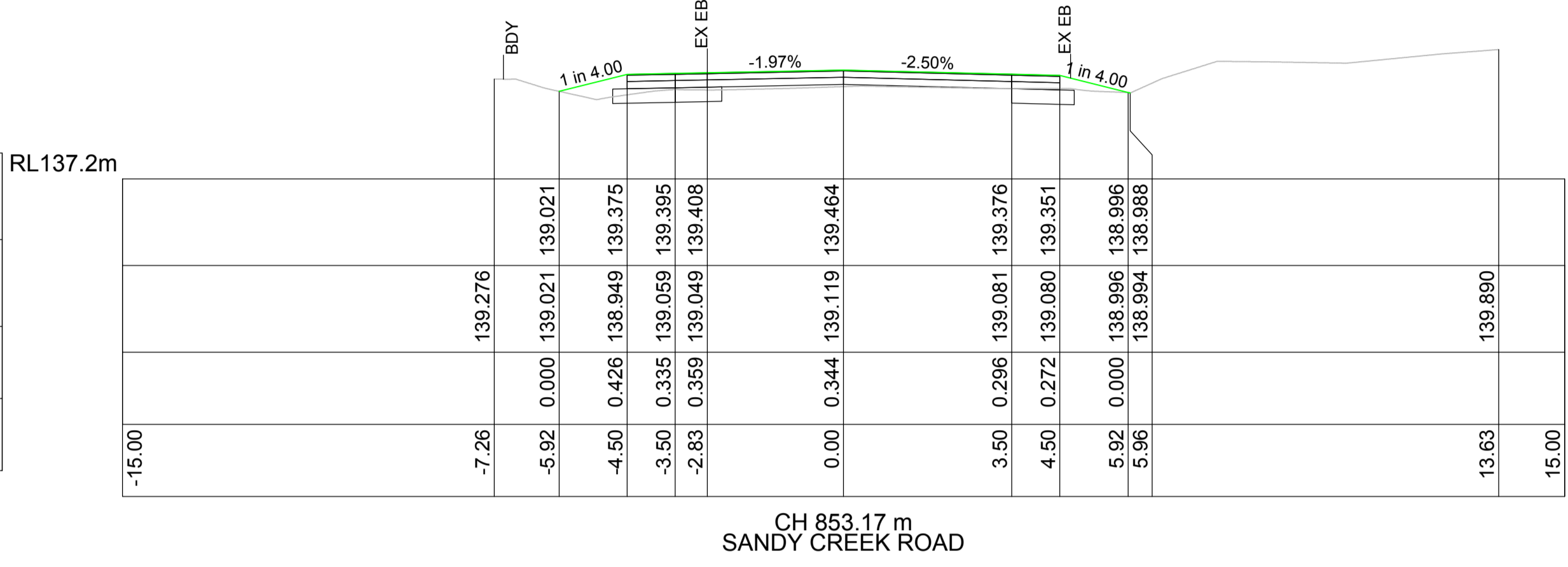
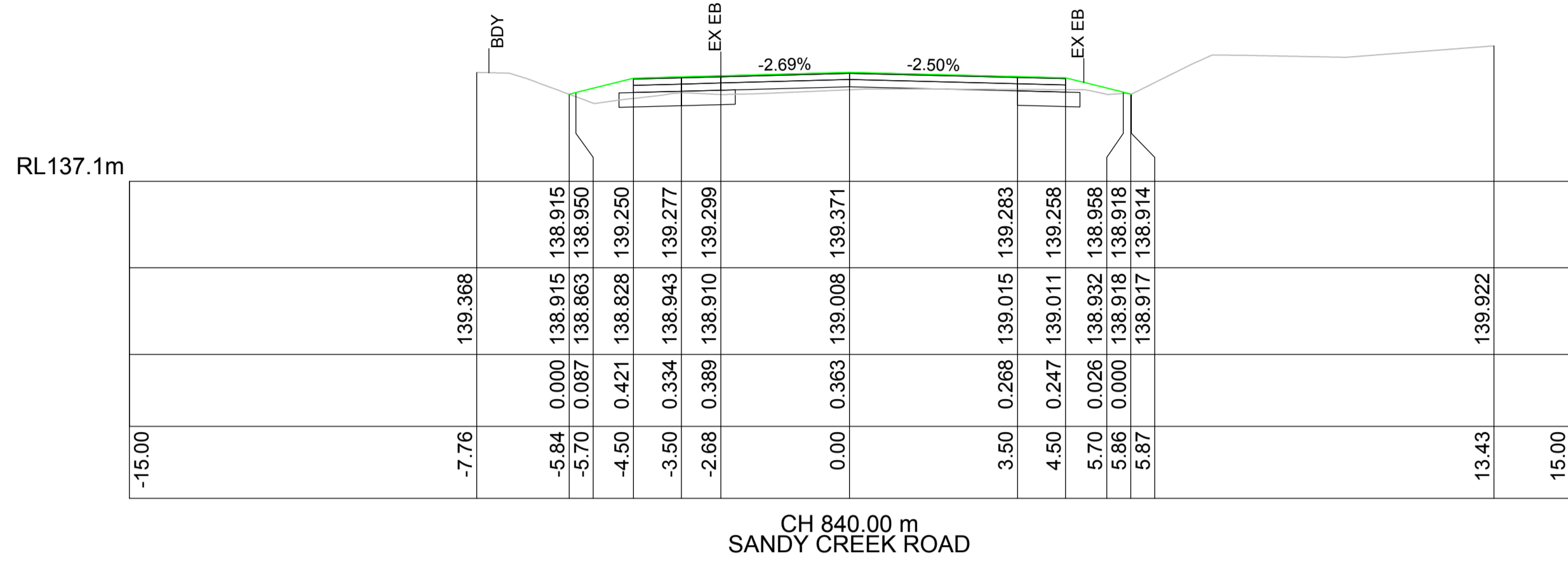
DRAWING TITLE  
**CROSS SECTIONS SHEET 20 OF 72**

**SHEET 34 OF 116 SHEETS**

PROJECT No	AL22077	REVISION	1
DWG No	C05-34		

**CONSTRUCTION**

2 1 0 2 4 6  
1:100 (A1)



Stationing	Existing Ground Level (EX EB)	Proposed Road Level	Difference	Offset
-15.00	139.188	139.188	0.00	-15.00
-7.54	138.721	138.721	0.00	-5.98
0.00	138.649	138.649	0.142	-5.70
3.50	138.699	138.699	0.392	-4.50
7.00	138.786	138.786	0.334	-3.50
10.50	138.777	138.777	0.365	-2.78
14.00	139.224	139.224	0.325	0.00
17.50	139.137	139.137	0.267	3.50
21.00	139.112	139.112	0.257	4.45
24.50	139.166	139.166	0.262	4.50
28.00	138.812	138.812	0.065	5.70
31.50	138.790	138.790	0.000	5.79
35.00	139.986	139.986	0.000	13.08
38.50	15.00	15.00	0.000	15.00

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

AL Civil Design  
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GILLIESTON HEIGHTS NSW 2321  
0466 253 917

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SURVEY: DELFS LASCELLES	CLIENT: CESSNOCK CITY COUNCIL
DESIGN: M.M	
DRAWN: M.M	
CHECKED: M.M	
DATE: 11.08.2023	PLAN: LONGITUDINAL SECTION CROSS SECTION
APPROVED: M.M	1:100 (A1)
	HORIZ. N/A HORIZ. 1:100
	VERT. N/A VERT. 1:100

PROJECT: LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG

DRAWING TITLE: CROSS SECTIONS SHEET 21 OF 72

SHEET 35 OF 116 SHEETS

PROJECT No: AL22077

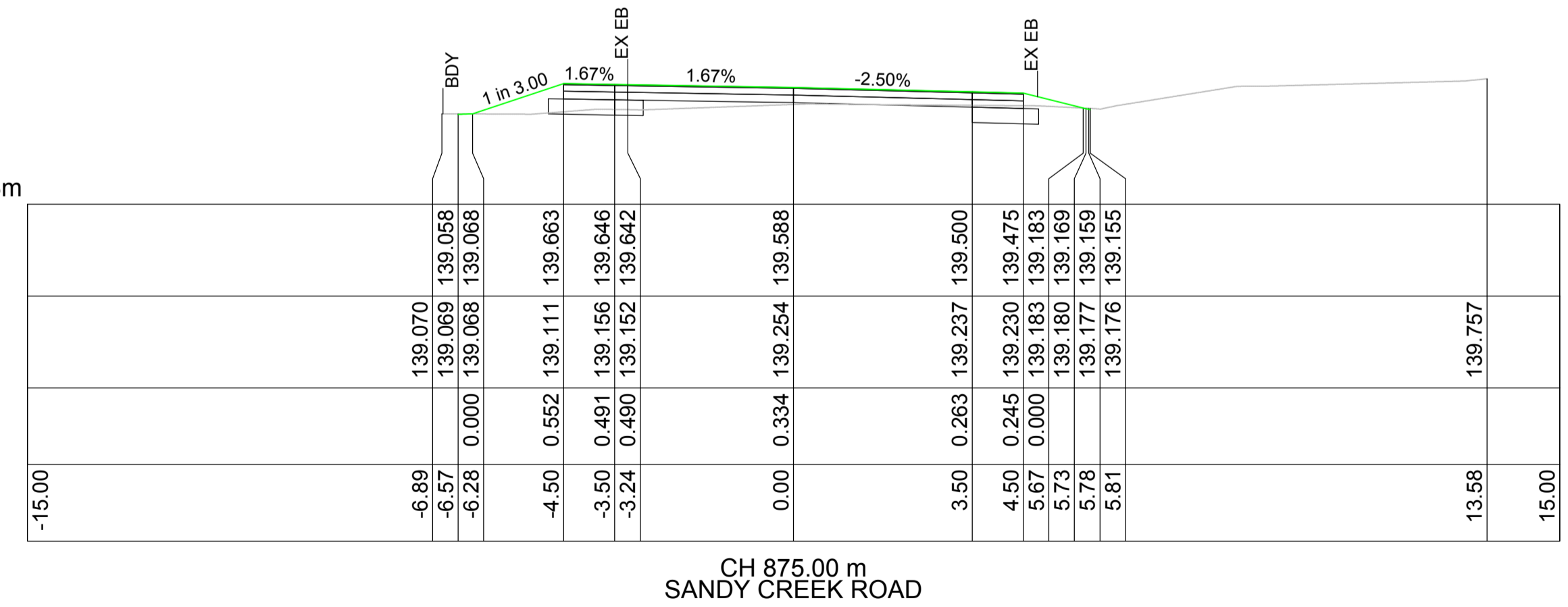
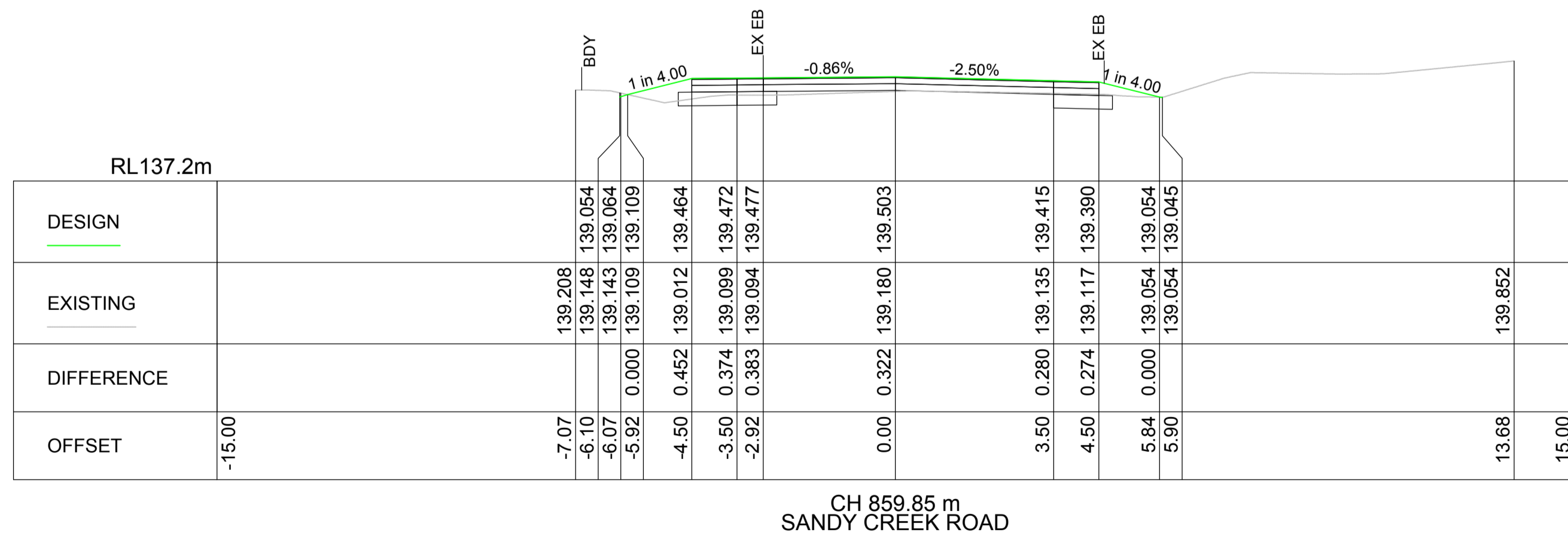
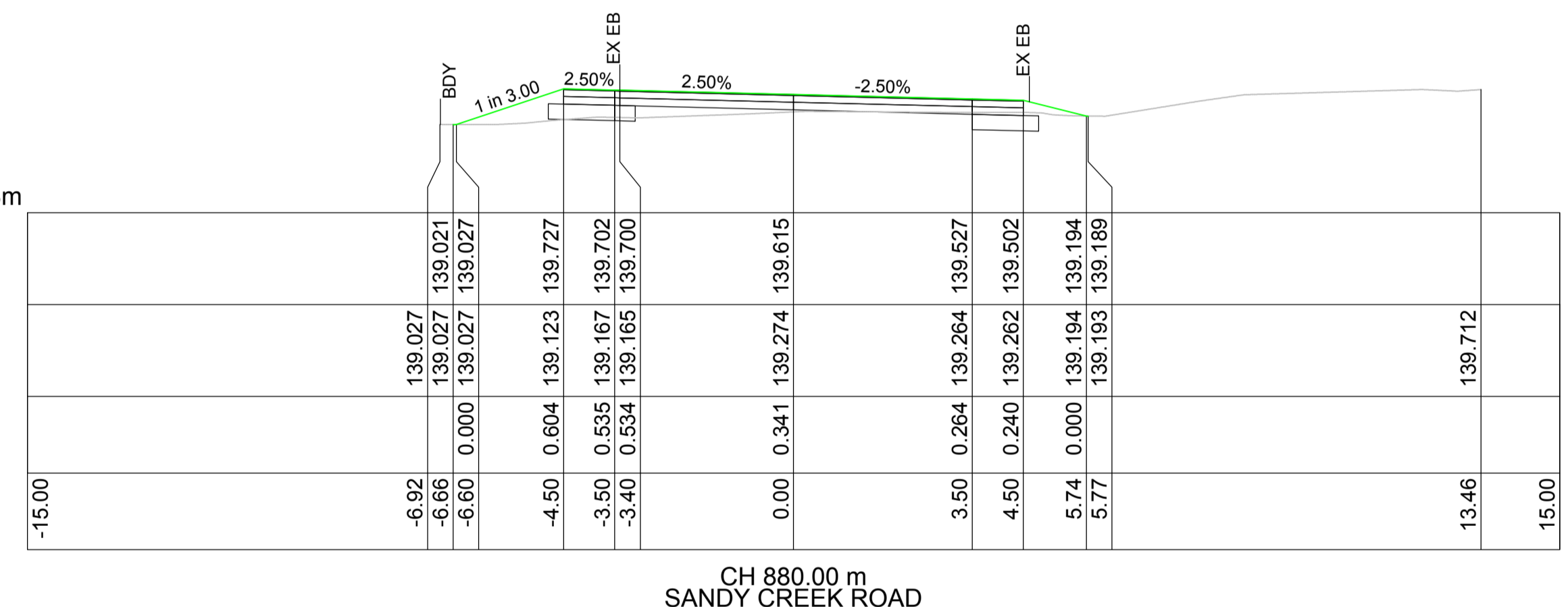
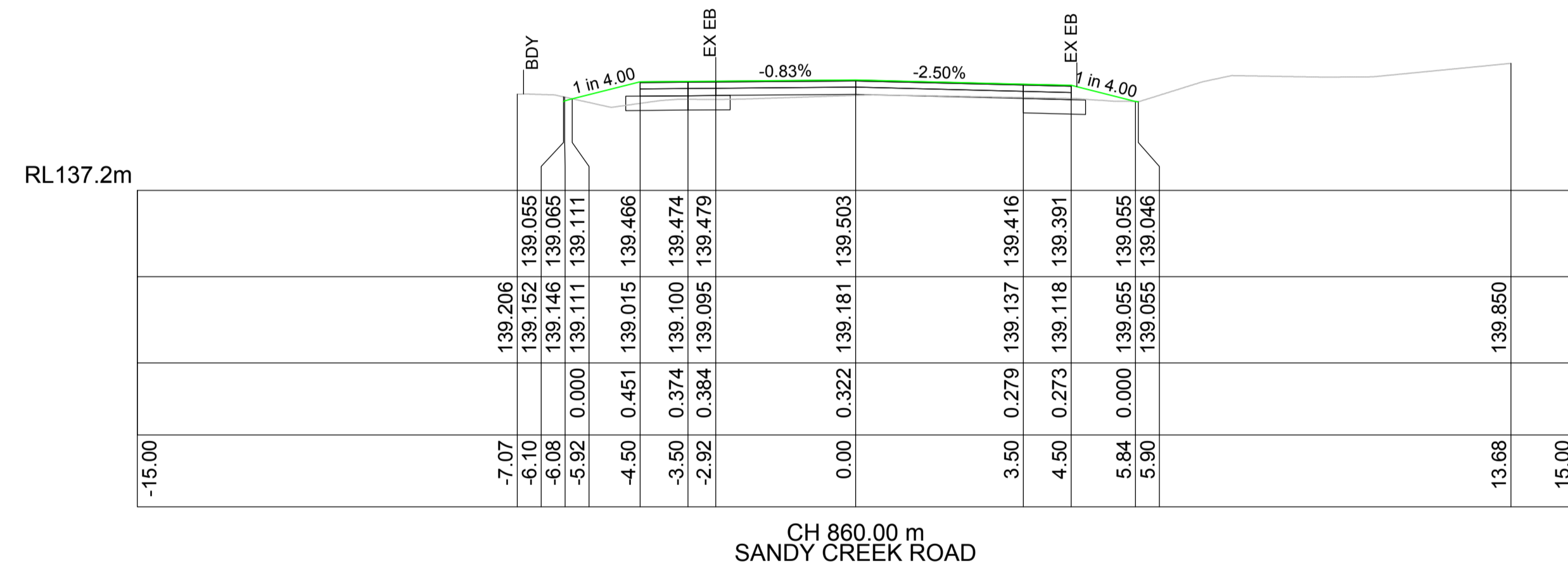
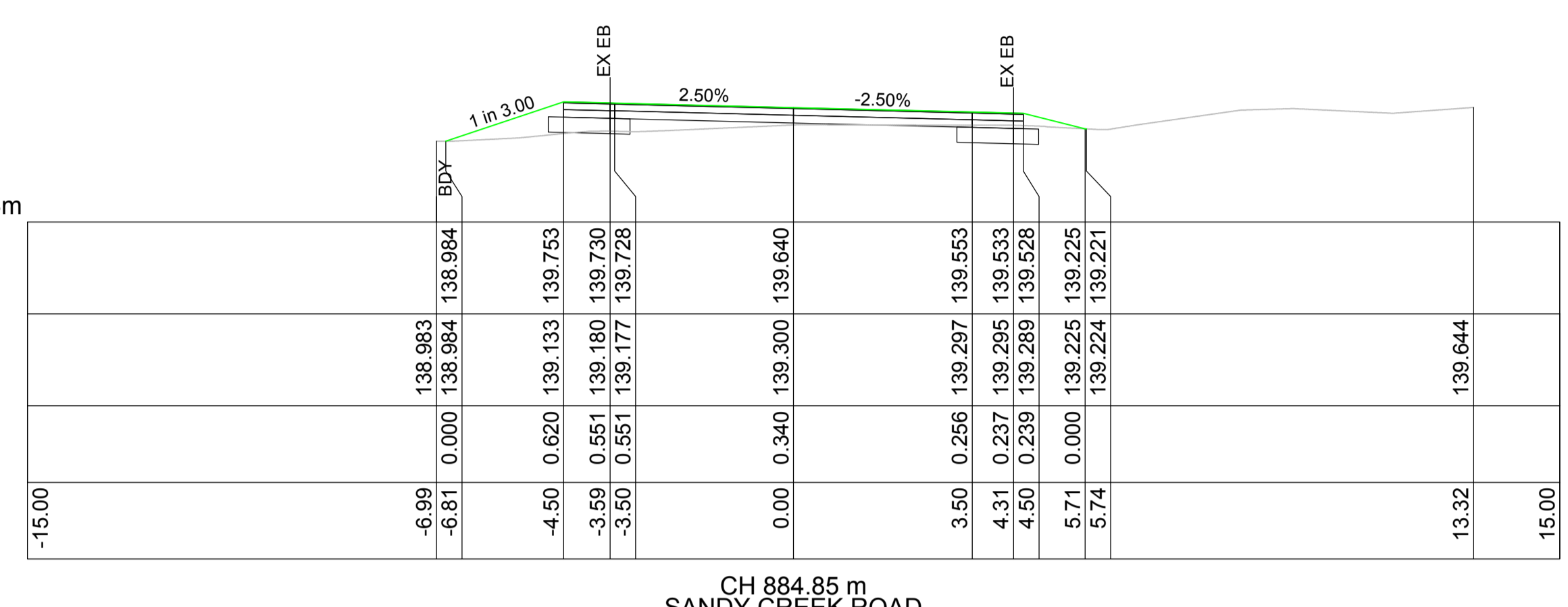
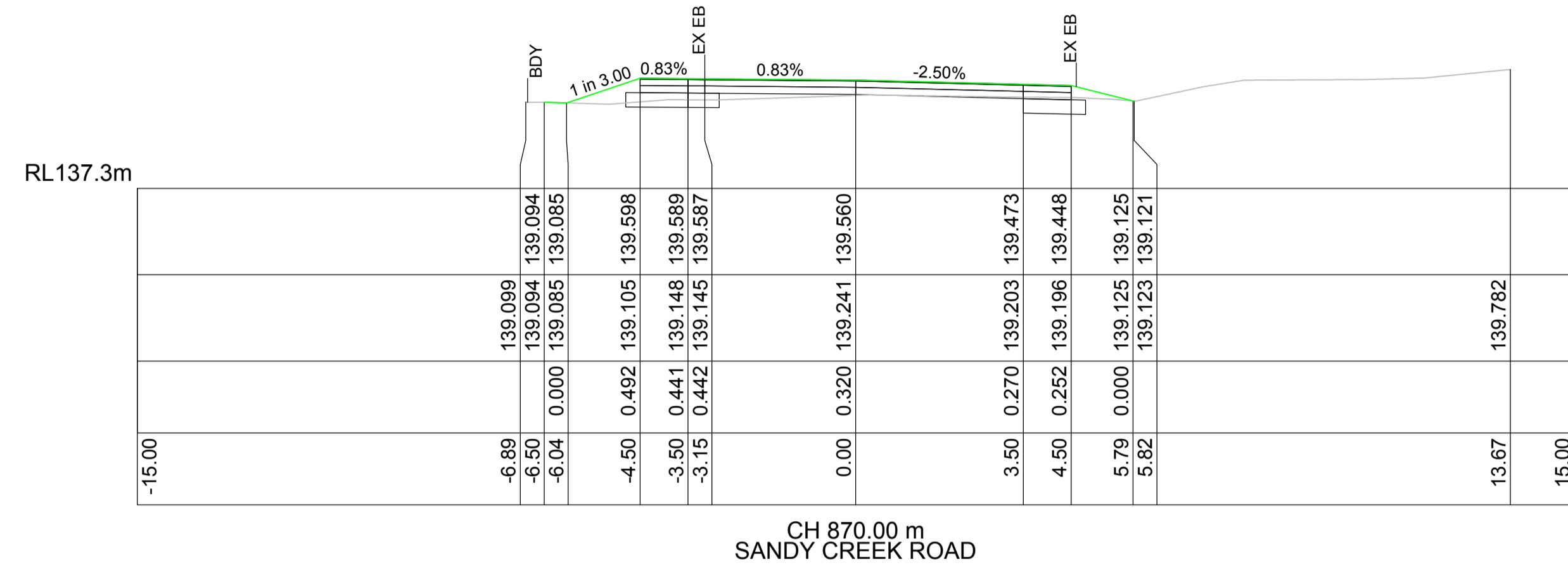
DWG No: C05-35

REVISION: 1

CONSTRUCTION

2 1 0 2 4 6

1:100 (A1)



DESIGN															
EXISTING		139.208	139.054	139.064	139.109	139.464	139.472	139.477	139.503	139.415	139.390	139.054	139.045	139.852	15.00
DIFFERENCE		-7.07	-6.10	-6.07	-5.92	-4.50	-3.50	-2.92	0.000	0.322	0.280	0.000	5.84	13.68	
OFFSET	-15.00														

1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE

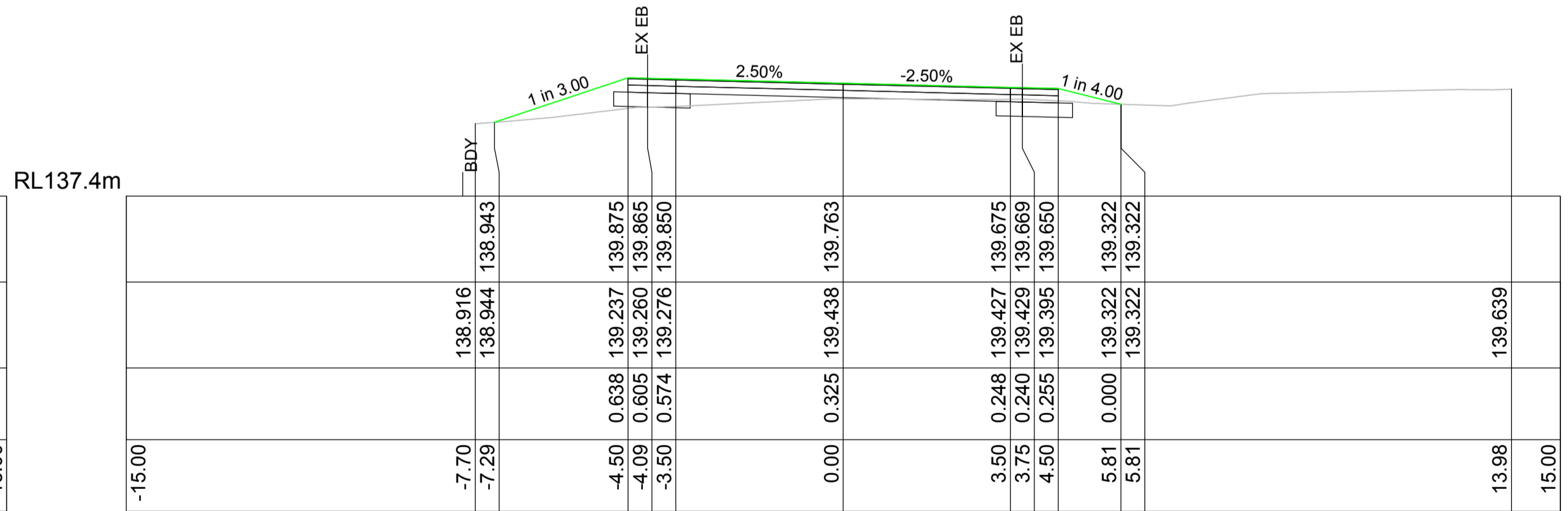
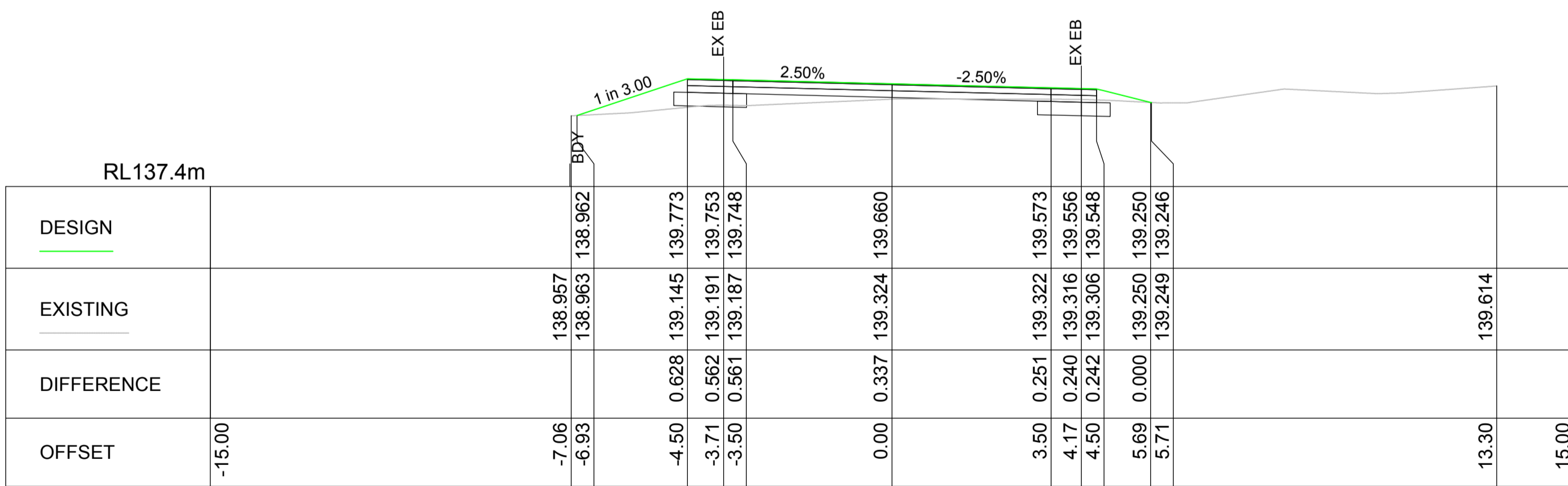
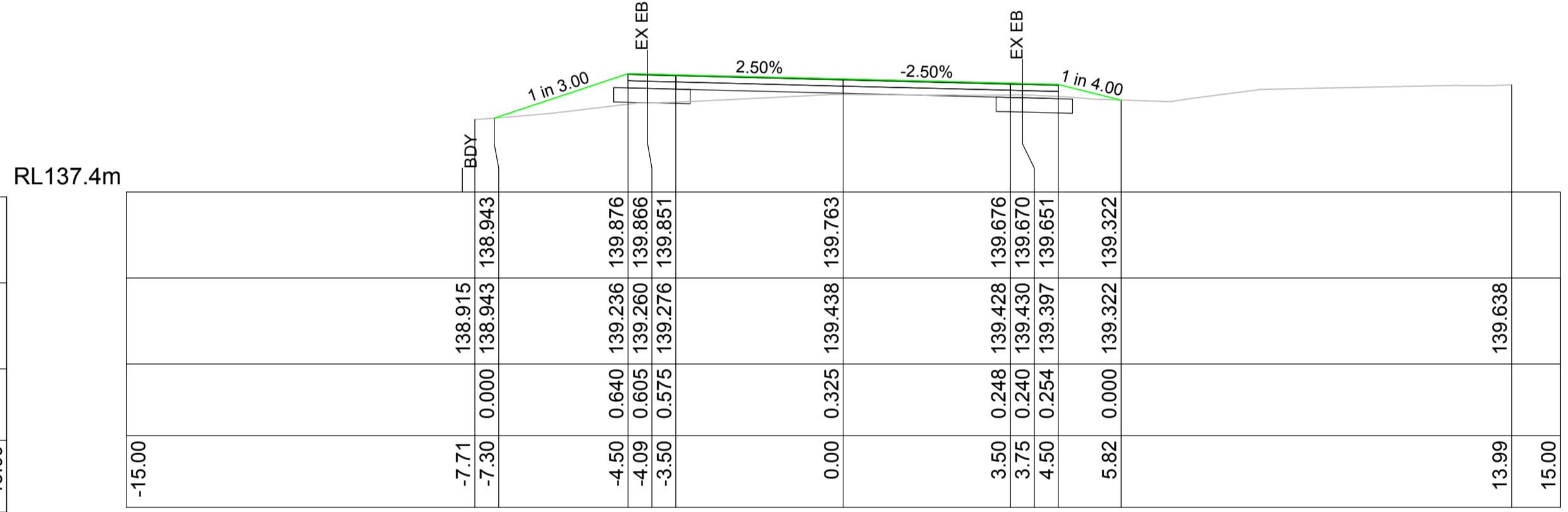
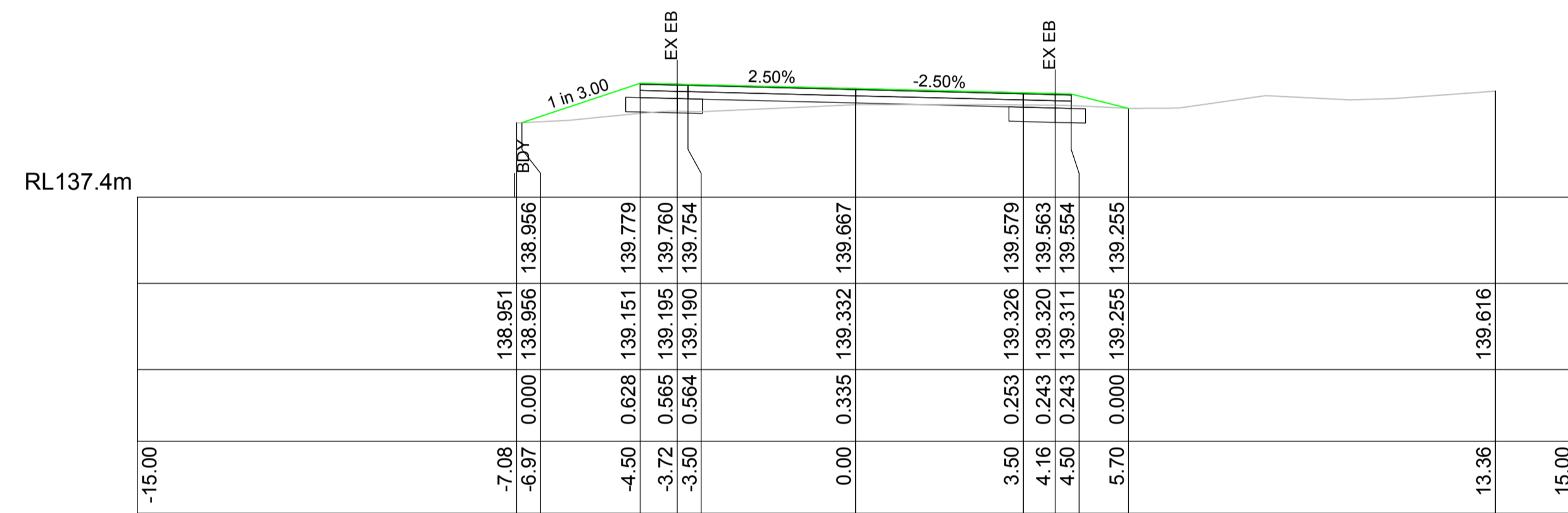
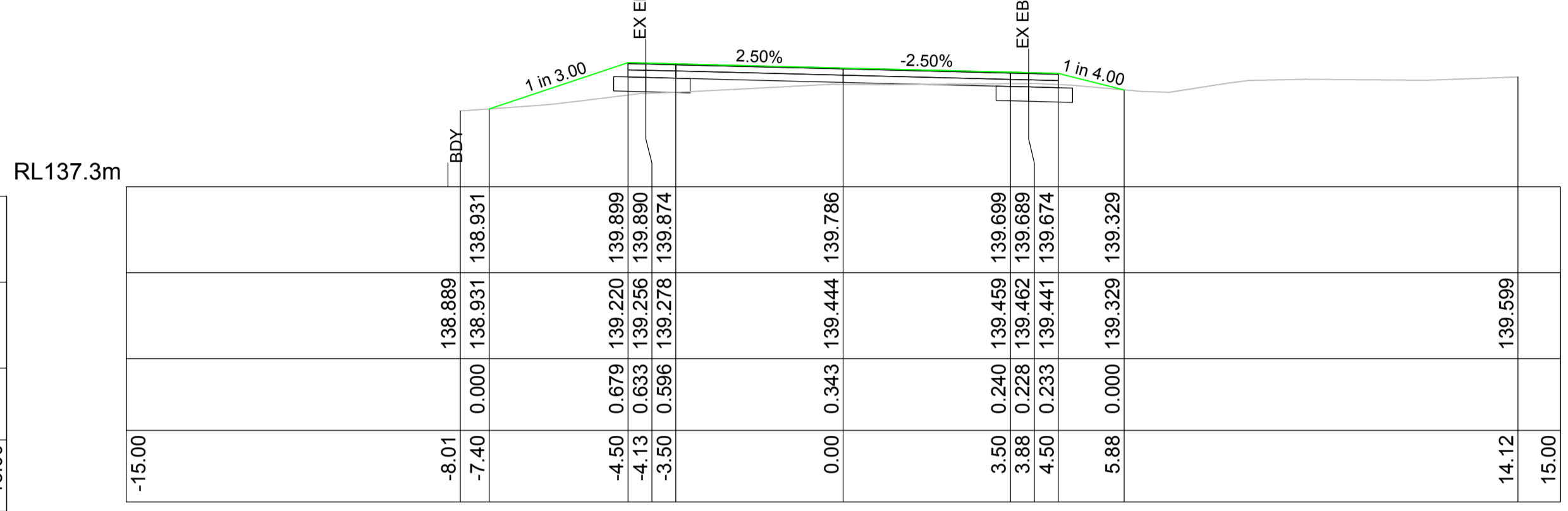
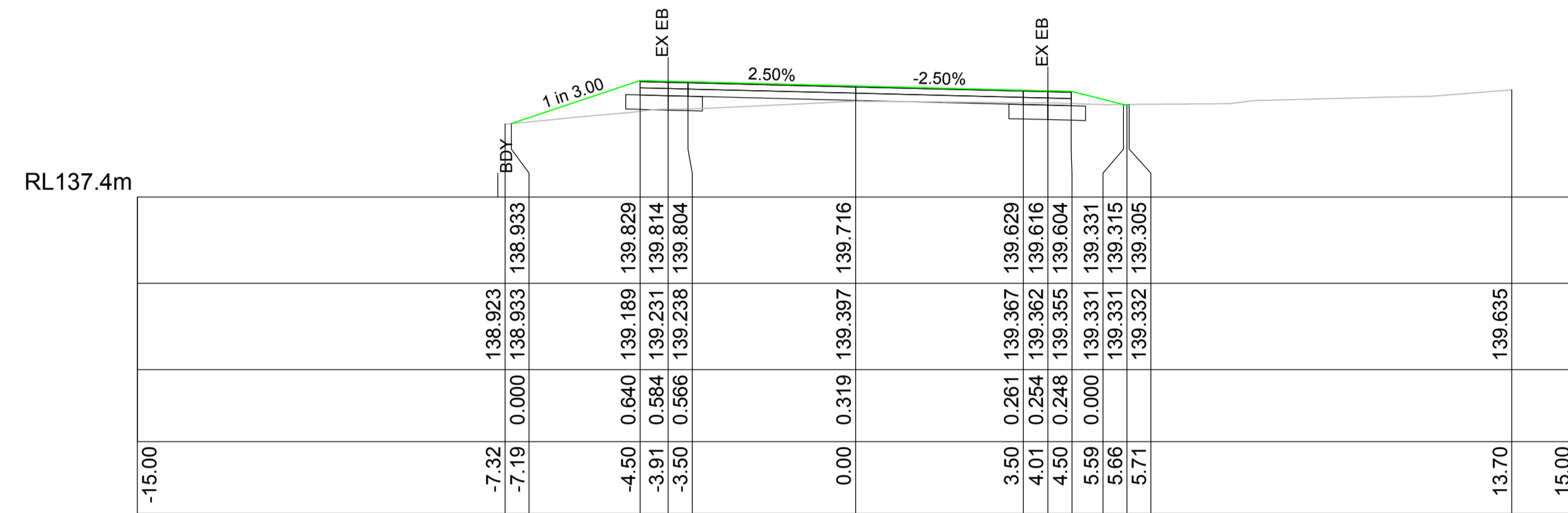


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SURVEY:	DELFS LASCELLES	CLIENT	CESSNOCK CITY COUNCIL
DESIGN:	M.M		
DRAWN:	M.M		
CHECKED:	M.M		
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION CROSS SECTION
APPROVED:	M.M	1:100 (A1)	HORIZ. N/A HORIZ. 1:100 VERT. N/A VERT. 1:100

PROJECT  
**LOCAL ROAD RENEWAL  
 STAGE 1 & STAGE 2  
 SANDY CREEK ROAD, QUORROBOLONG**  
 DRAWING TITLE  
**CROSS SECTIONS SHEET 22 OF 72**  
**SHEET 36 OF 116 SHEETS**

PROJECT No	AL22077	REVISION	1
DWG No	C05-36		
<b>CONSTRUCTION</b>			
2 1 0 2 4 6 1:100 (A1)			



DESIGN	138.957	138.963	138.962	139.773	139.753	139.748	139.660	139.573	139.566	139.548	139.250	139.246	139.614	15.00
EXISTING	138.957	138.963	138.962	139.773	139.753	139.748	139.660	139.573	139.566	139.548	139.250	139.246	139.614	15.00
DIFFERENCE														
OFFSET	-15.00													

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

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0466 253 917

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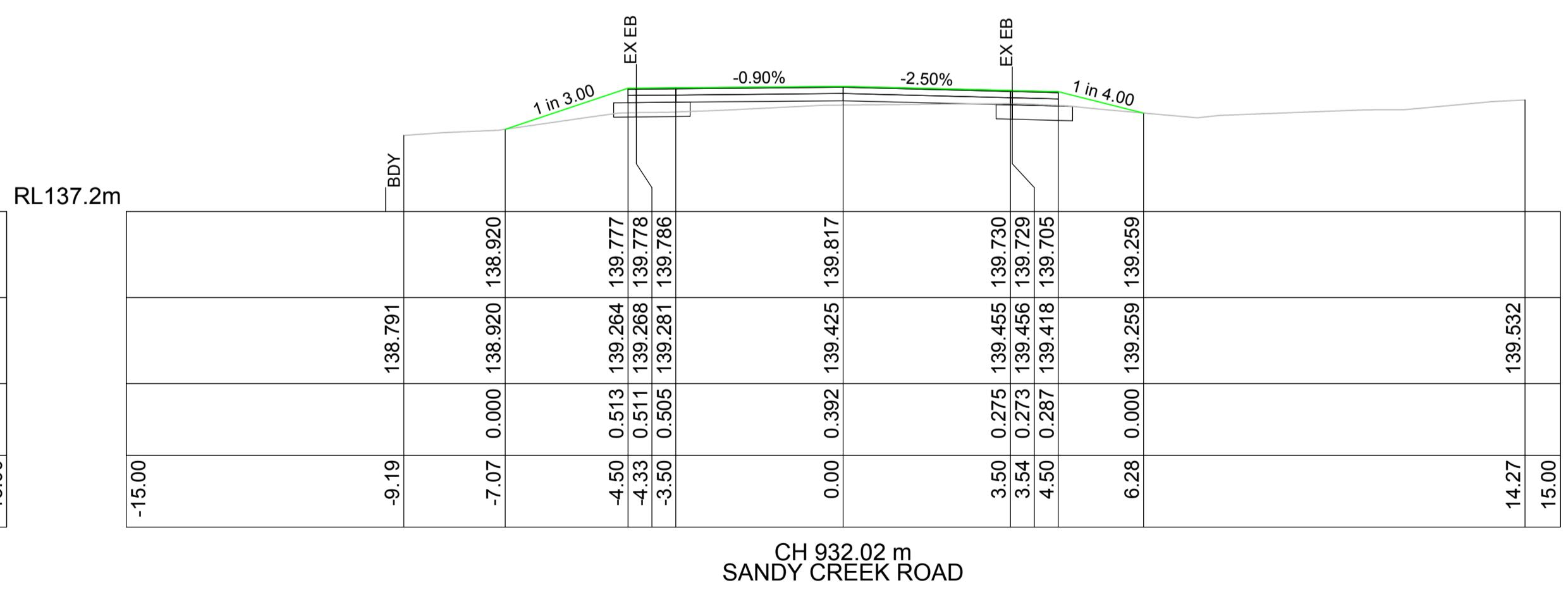
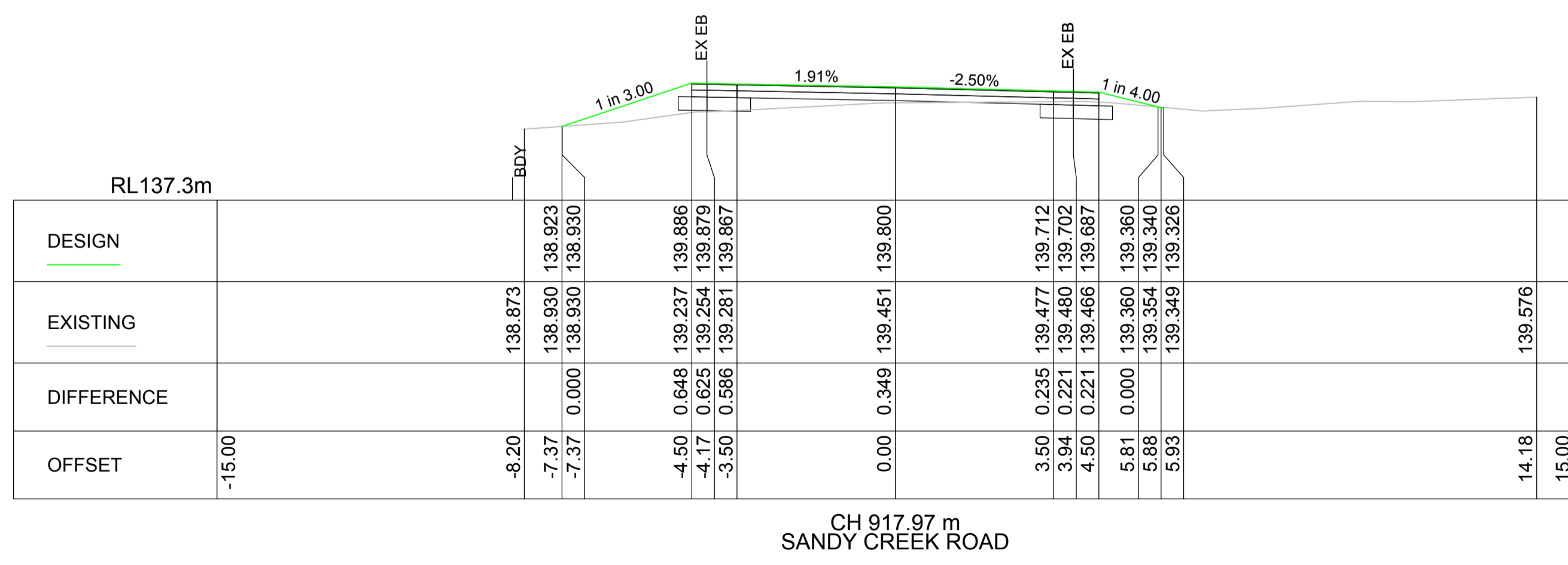
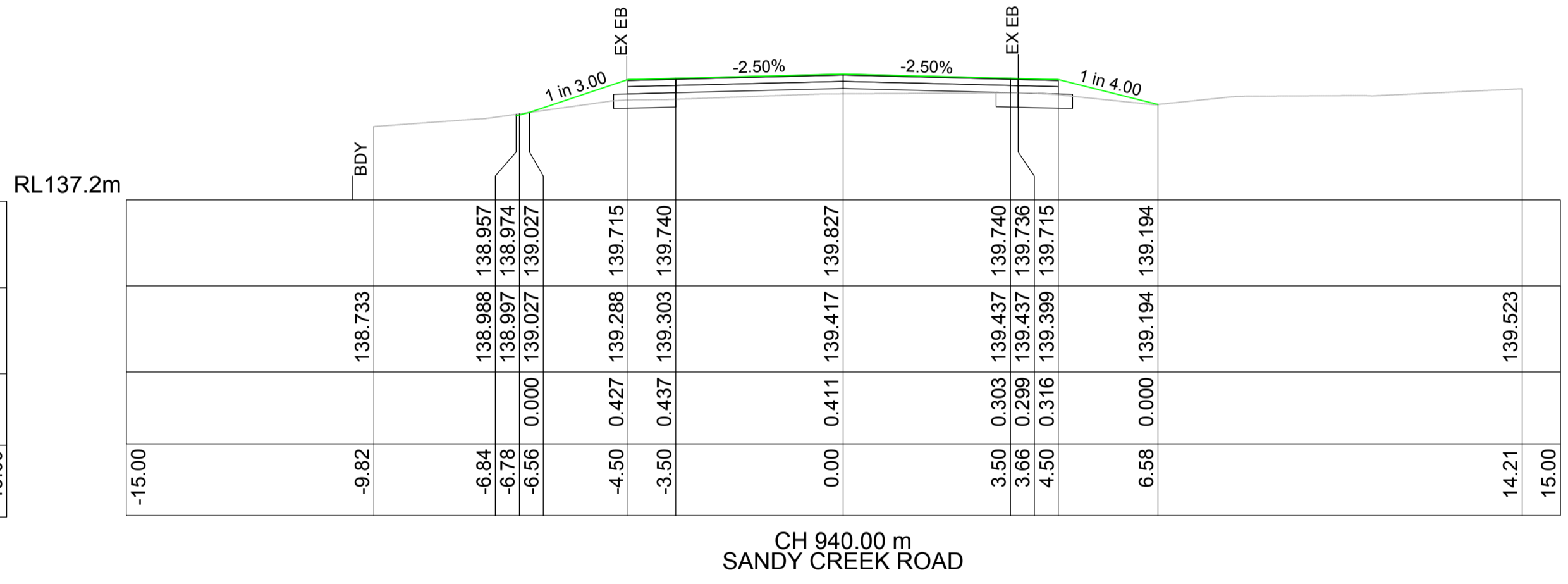
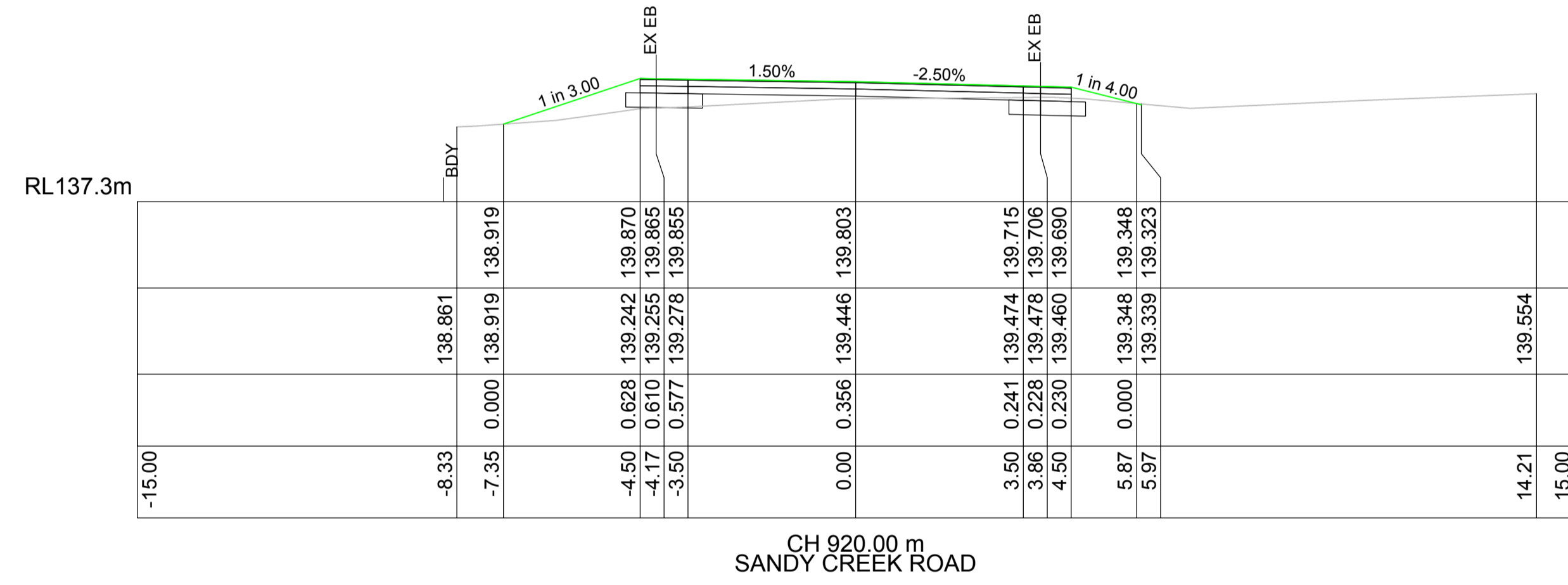
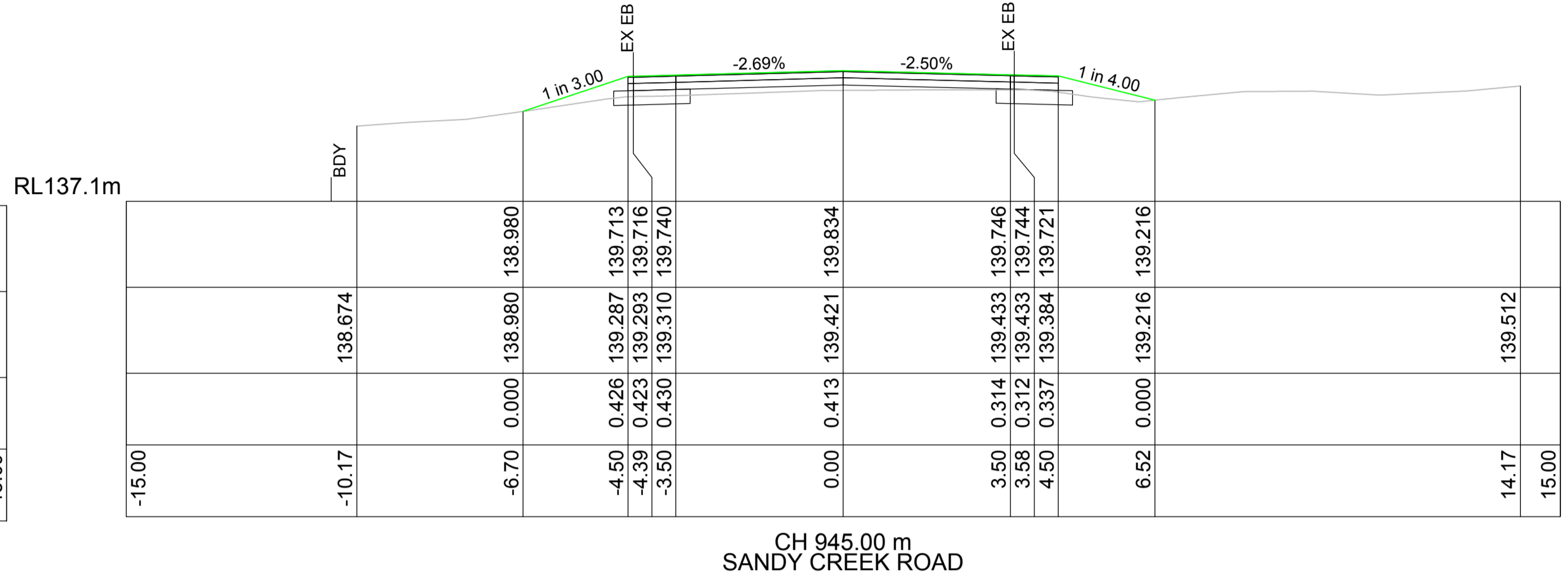
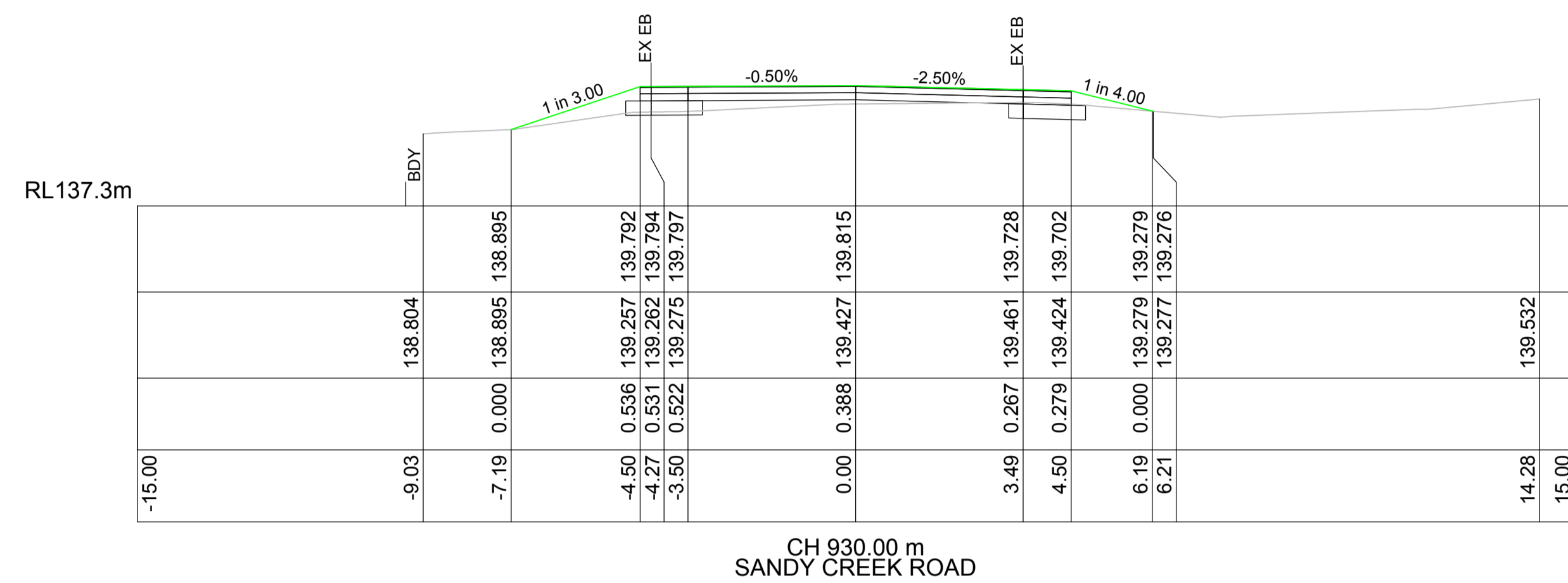
SURVEY:	DELFS LASCELLES	CLIENT	CESSNOCK CITY COUNCIL
DESIGN:	M.M		
DRAWN:	M.M		
CHECKED:	M.M		
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION
APPROVED:	M.M	1:100 (A1)	HORIZ. N/A VERT. N/A

PROJECT  
**LOCAL ROAD RENEWAL  
STAGE 1 & STAGE 2  
SANDY CREEK ROAD, QUORROBOLONG**

DRAWING TITLE  
**CROSS SECTIONS SHEET 23 OF 72**

**SHEET 37 OF 116 SHEETS**

PROJECT No	AL22077	REVISION	1
DWG No	C05-37		
<b>CONSTRUCTION</b>			
2 1 0 2 4 6 1:100 (A1)			



	DESIGN	EXISTING	DIFFERENCE	OFFSET
138.873	138.873	138.873	0.000	-8.20
138.923	138.923	138.923	0.000	-7.37
138.930	138.930	138.930	0.000	-7.37
139.237	139.237	139.237	0.000	-4.50
139.254	139.254	139.254	0.000	-4.17
139.281	139.281	139.281	0.000	-3.50
139.451	139.451	139.451	0.000	0.00
139.477	139.477	139.477	0.000	3.50
139.712	139.712	139.712	0.000	3.94
139.702	139.702	139.702	0.000	4.50
139.687	139.687	139.687	0.000	4.50
139.360	139.360	139.360	0.000	5.81
139.340	139.340	139.340	0.000	5.88
139.326	139.326	139.326	0.000	5.93
139.576	139.576	139.576	0.000	14.18
15.00	15.00	15.00	0.000	15.00

REV	REVISION DETAILS	ISSUED BY	DATE
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0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
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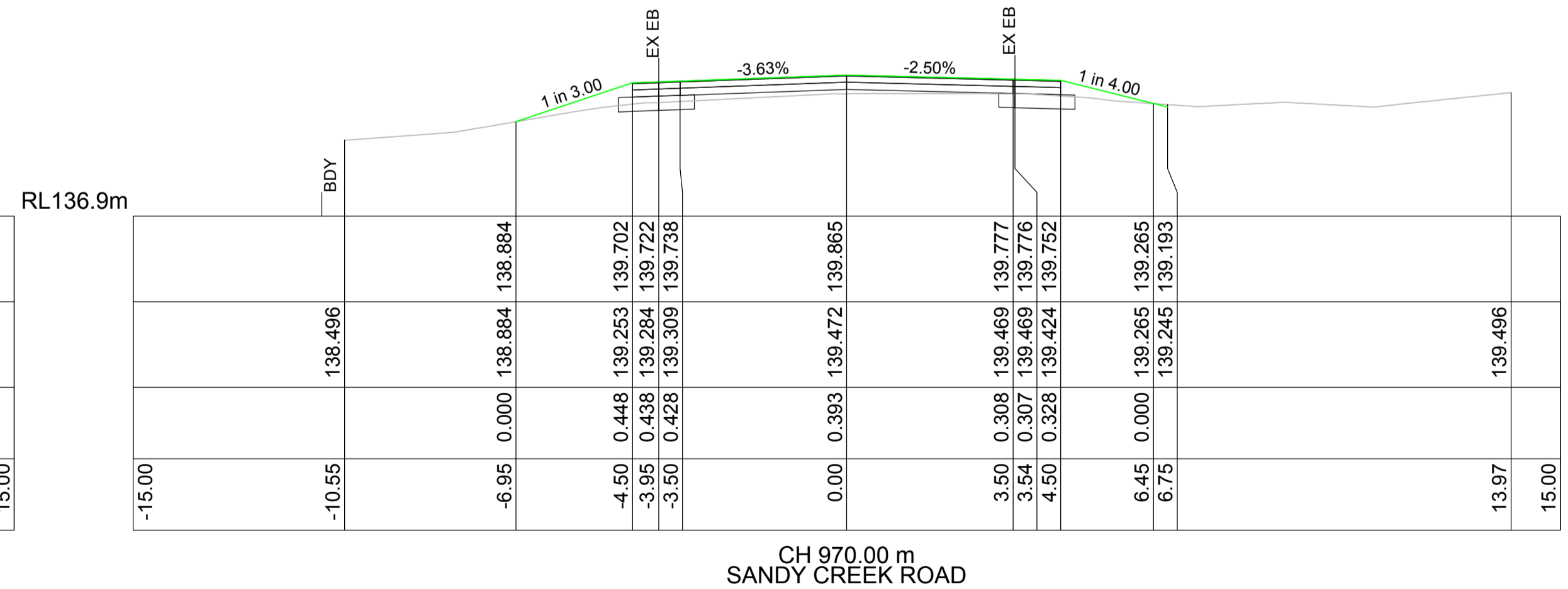
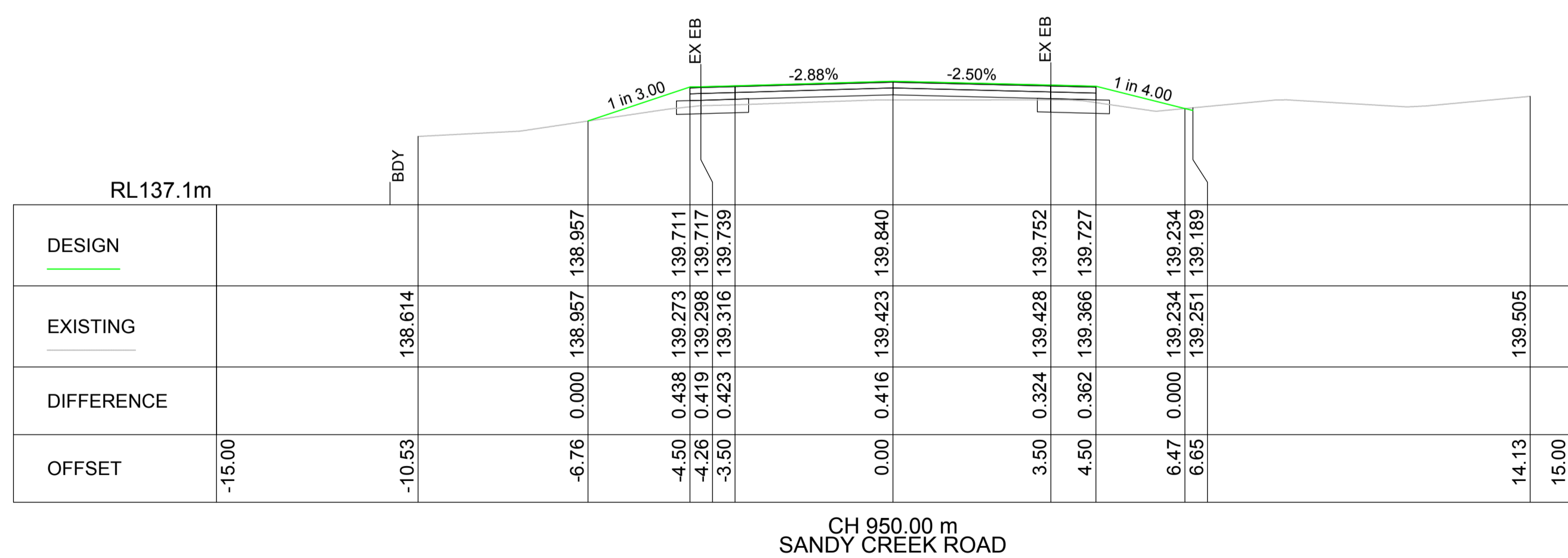
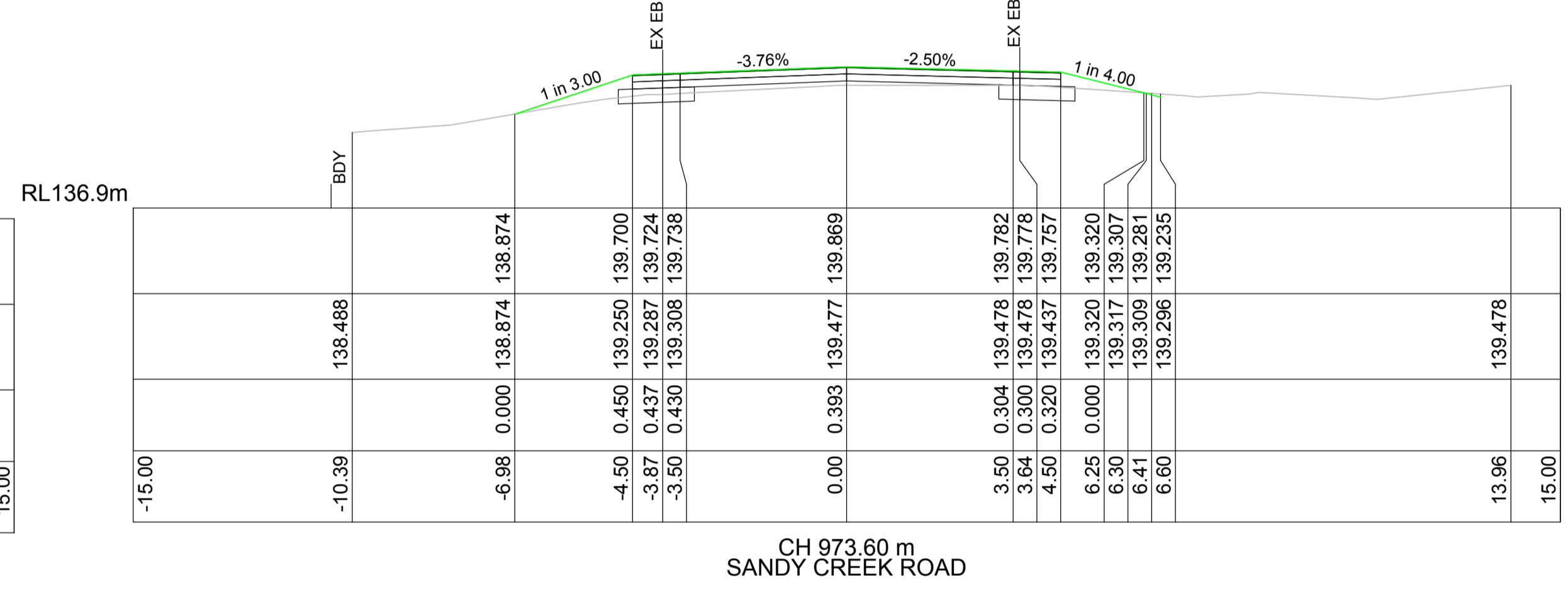
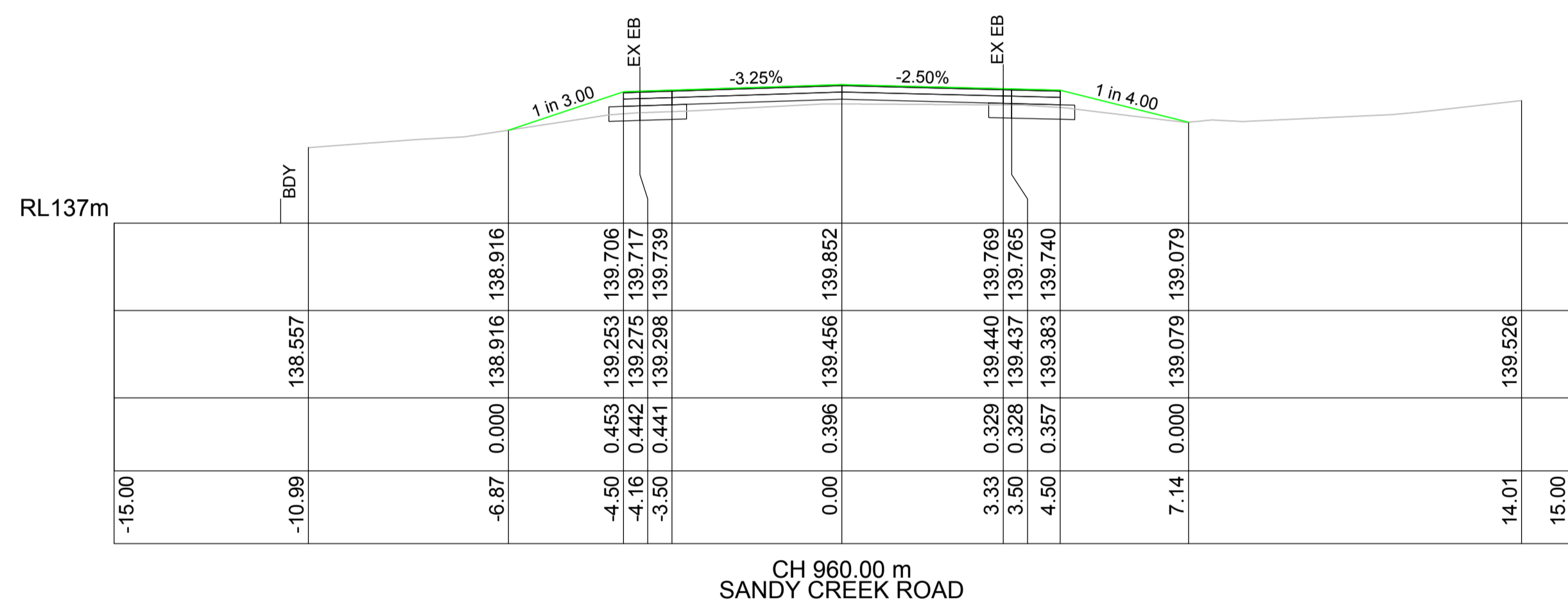
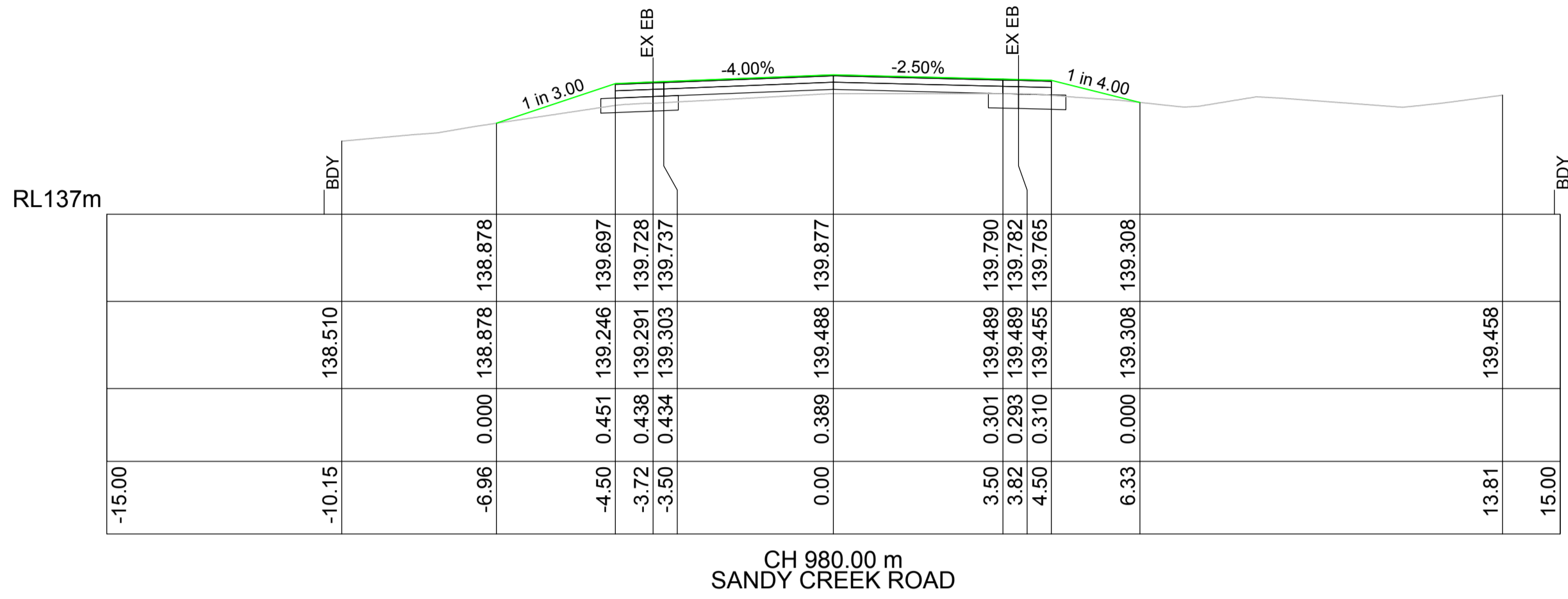
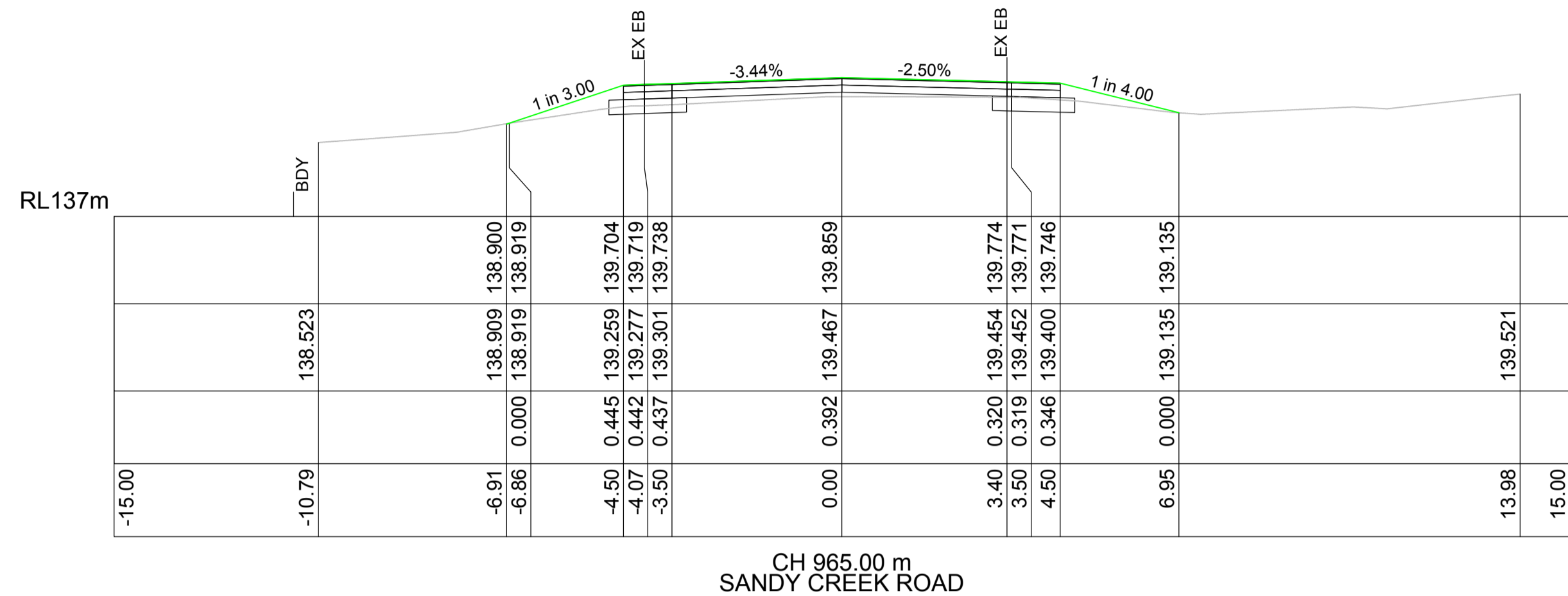


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SURVEY: DELFS LASCELLES	CLIENT: CESSNOCK CITY COUNCIL
DESIGN: M.M	
DRAWN: M.M	
CHECKED: M.M	
DATE: 11.08.2023	PLAN: LONGITUDINAL SECTION CROSS SECTION
APPROVED: M.M	1:100 (A1) HORIZ. N/A HORIZ. 1:100 VERT. N/A VERT. 1:100

PROJECT: LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG  
 DRAWING TITLE: CROSS SECTIONS SHEET 24 OF 72  
 SHEET 38 OF 116 SHEETS

PROJECT No: AL22077	REVISION: 1
DWG No: C05-38	
<b>CONSTRUCTION</b>	
2 1 0 2 4 6 1:100 (A1)	



	DESIGN	EXISTING	DIFFERENCE	OFFSET
RL137.1m				
	138.614	138.957	0.000	-10.53
			0.438	-6.76
			0.419	-4.50
			0.423	-4.26
			0.324	-3.50
			0.362	0.00
			0.000	6.47
			0.324	6.65
			0.428	14.13
			0.366	15.00


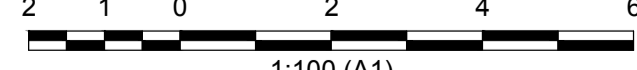
REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

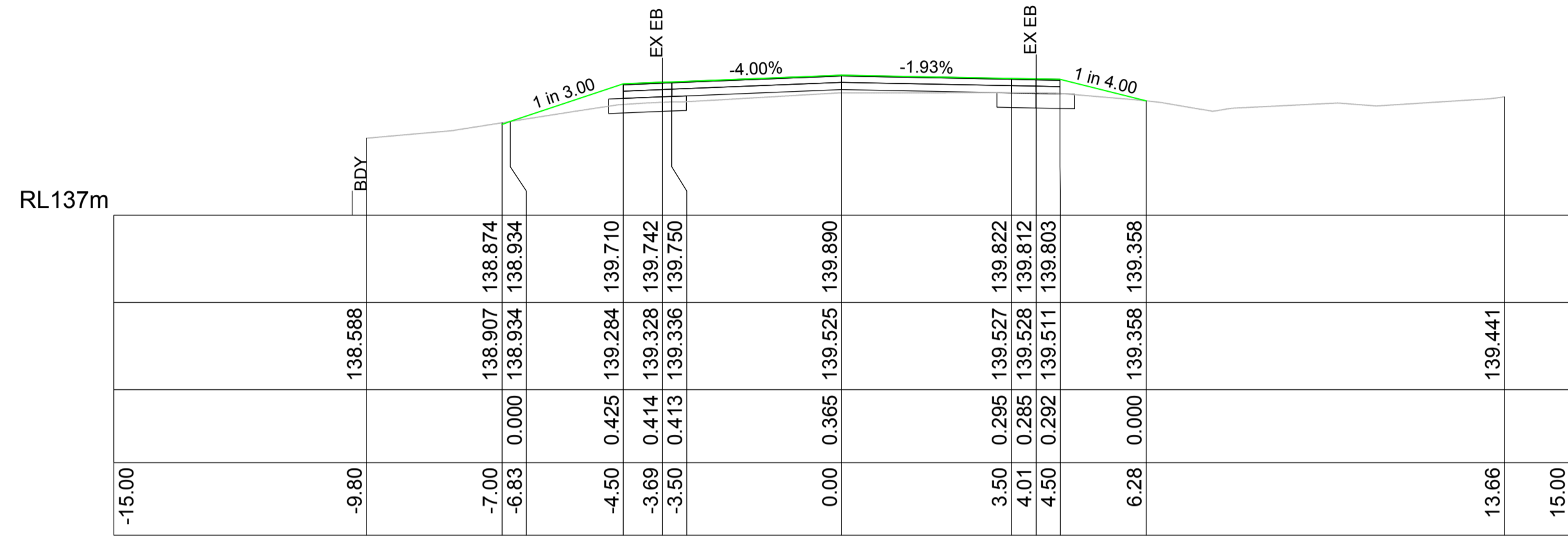

  
 AL Civil Design
   
 5 Yew Street
   
 GILLIESTON HEIGHTS NSW 2321
   
 0466 253 917

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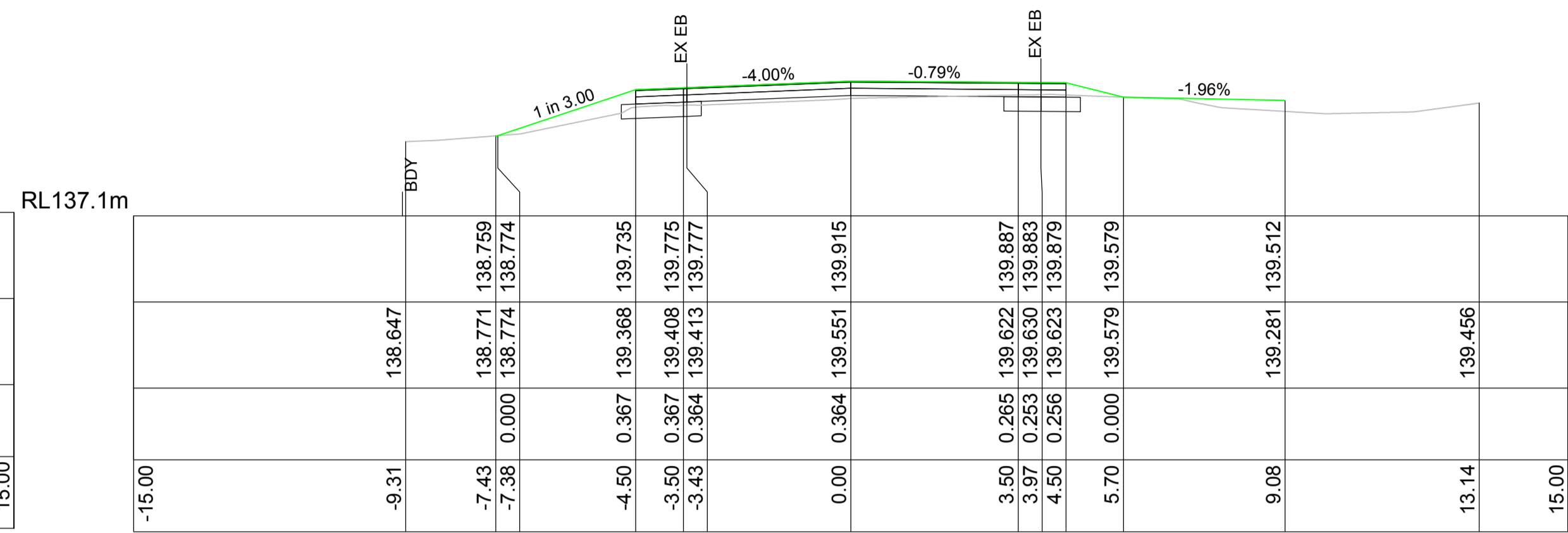
SURVEY:	DELFS LASCELLES	CLIENT	CESSNOCK CITY COUNCIL
DESIGN:	M.M		
DRAWN:	M.M		
CHECKED:	M.M		
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION HORIZ. N/A VERT. N/A
APPROVED:	M.M		CROSS SECTION HORIZ. 1:100 VERT. 1:100

PROJECT  
**LOCAL ROAD RENEWAL  
 STAGE 1 & STAGE 2  
 SANDY CREEK ROAD, QUORROBOLONG**
  
 DRAWING TITLE  
**CROSS SECTIONS SHEET 25 OF 72**
  
**SHEET 39 OF 116 SHEETS**

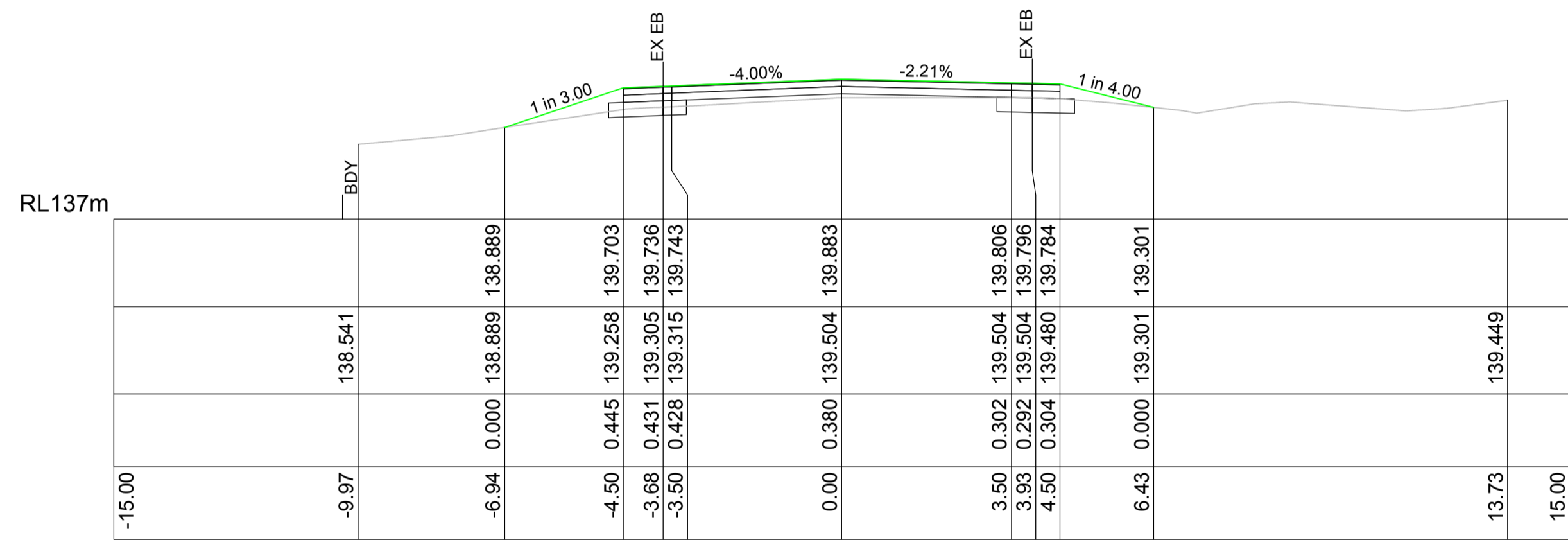
PROJECT No  
**AL22077**
  
 DWG No  
**C05-39**
  

  




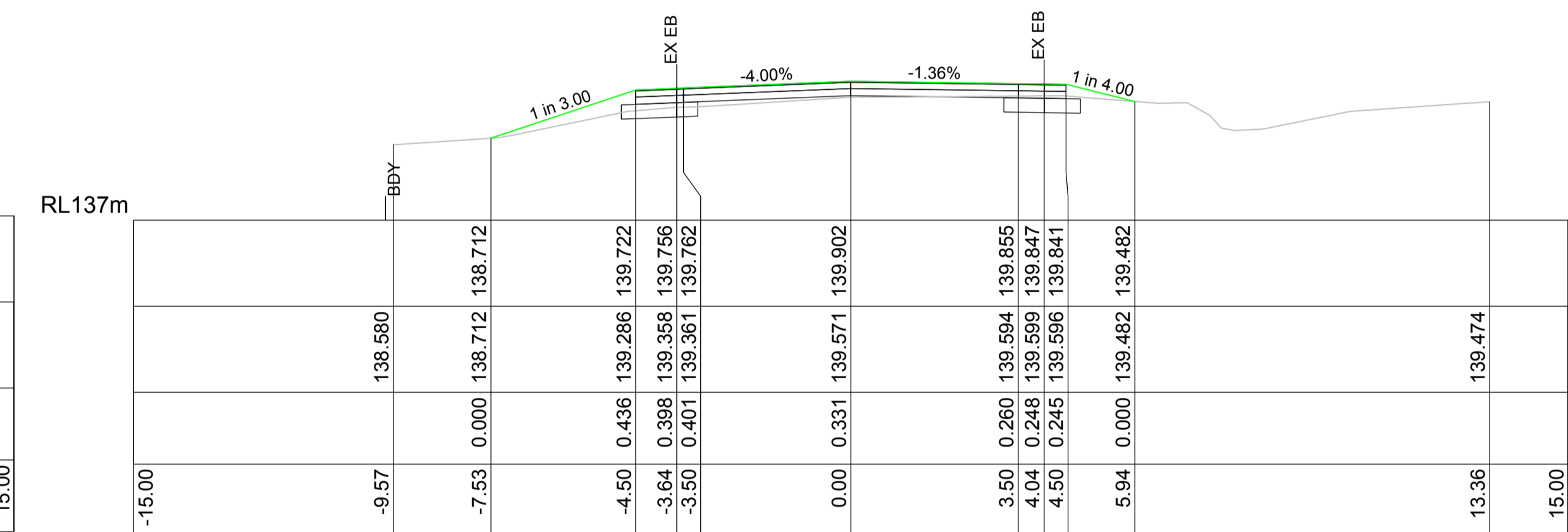
CH 990.00 m  
SANDY CREEK ROAD



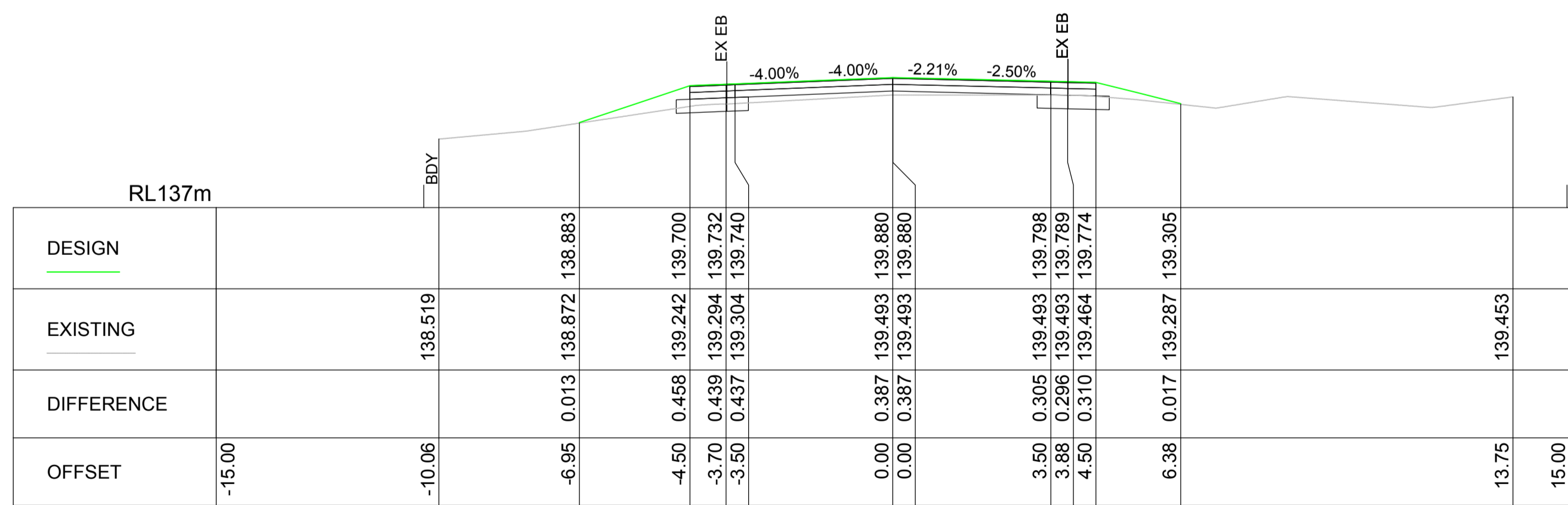
CH 1010.00 m  
SANDY CREEK ROAD



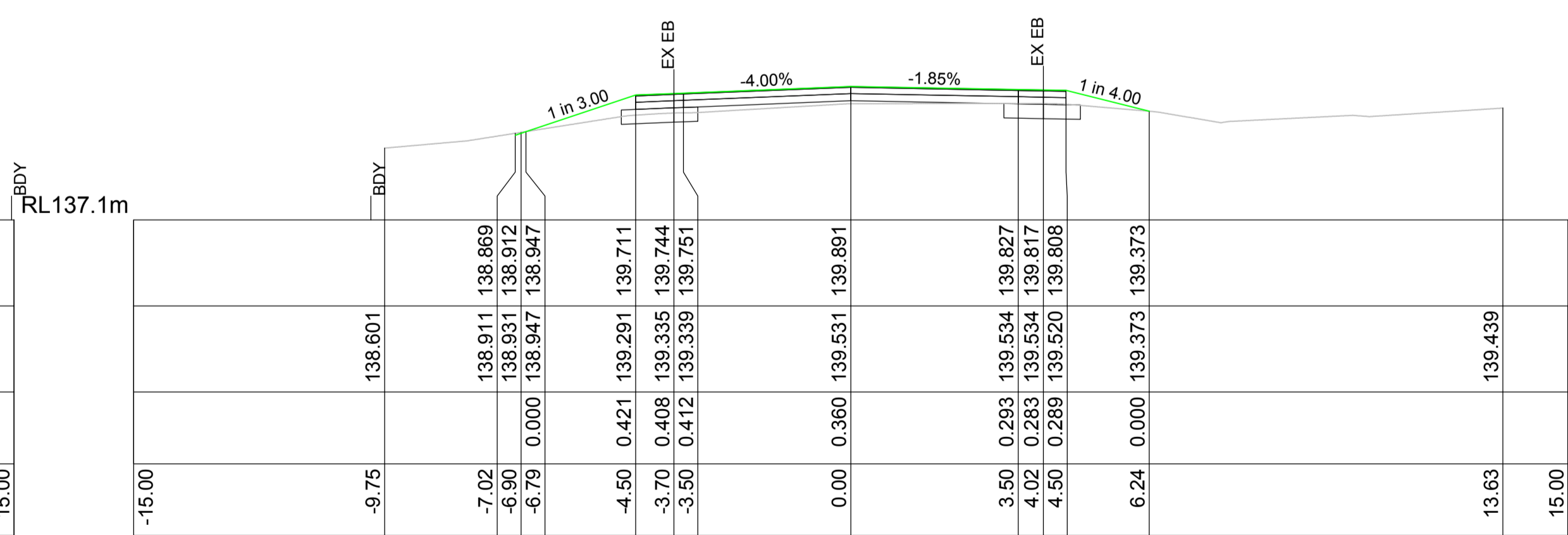
CH 985.00 m  
SANDY CREEK ROAD



CH 1000.00 m  
SANDY CREEK ROAD



CH 982.51 m  
SANDY CREEK ROAD



CH 991.42 m  
SANDY CREEK ROAD

	DESIGN	EXISTING	DIFFERENCE	OFFSET
		138.519		-15.00
		138.872	0.013	-10.06
		139.242	0.458	-6.95
		139.700	0.439	-4.50
		139.732	0.286	-3.70
		139.740	0.437	-3.50
		139.880	0.387	0.00
		139.798	0.305	3.50
		139.789	0.288	3.88
		139.774	0.310	4.50
		139.305	0.017	6.38
		139.453		13.75
				15.00

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23



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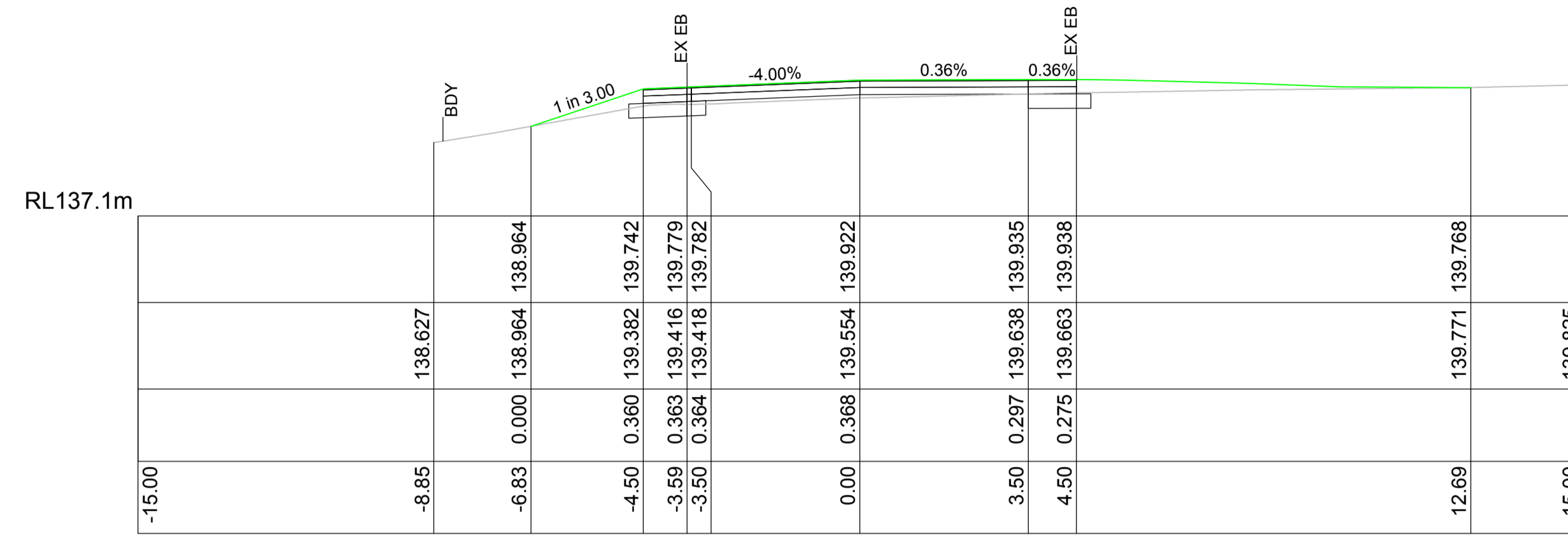
SURVEY:	DELFS LASCELLES
DESIGN:	M.M
DRAWN:	M.M
CHECKED:	M.M
DATE:	11.08.2023
APPROVED:	M.M

CLIENT	CESSNOCK CITY COUNCIL	
PLAN:	LONGITUDINAL SECTION	CROSS SECTION
	HORIZ. N/A	HORIZ. 1:100
	VERT. N/A	VERT. 1:100

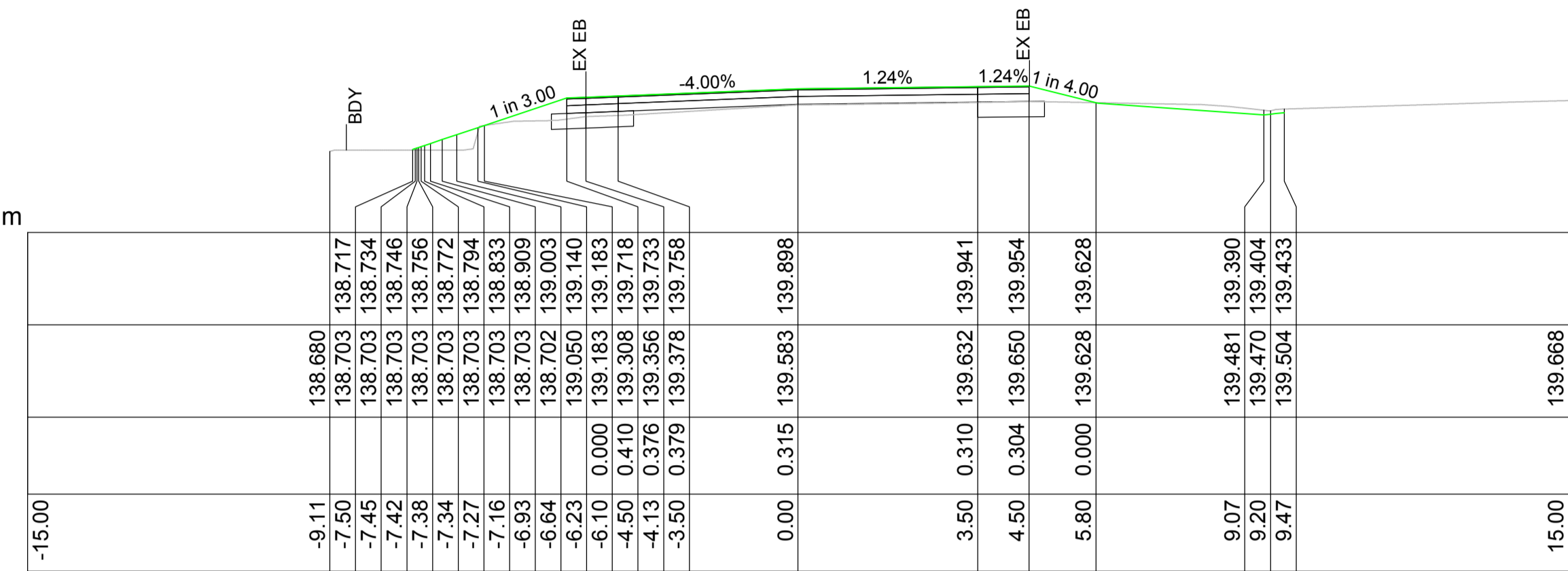
PROJECT	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWING TITLE	CROSS SECTIONS SHEET 26 OF 72
SHEET 40 OF 116 SHEETS	

PROJECT No	AL22077	REVISION	1
DWG No	C05-40		
<b>CONSTRUCTION</b>			
 1:100 (A1)			

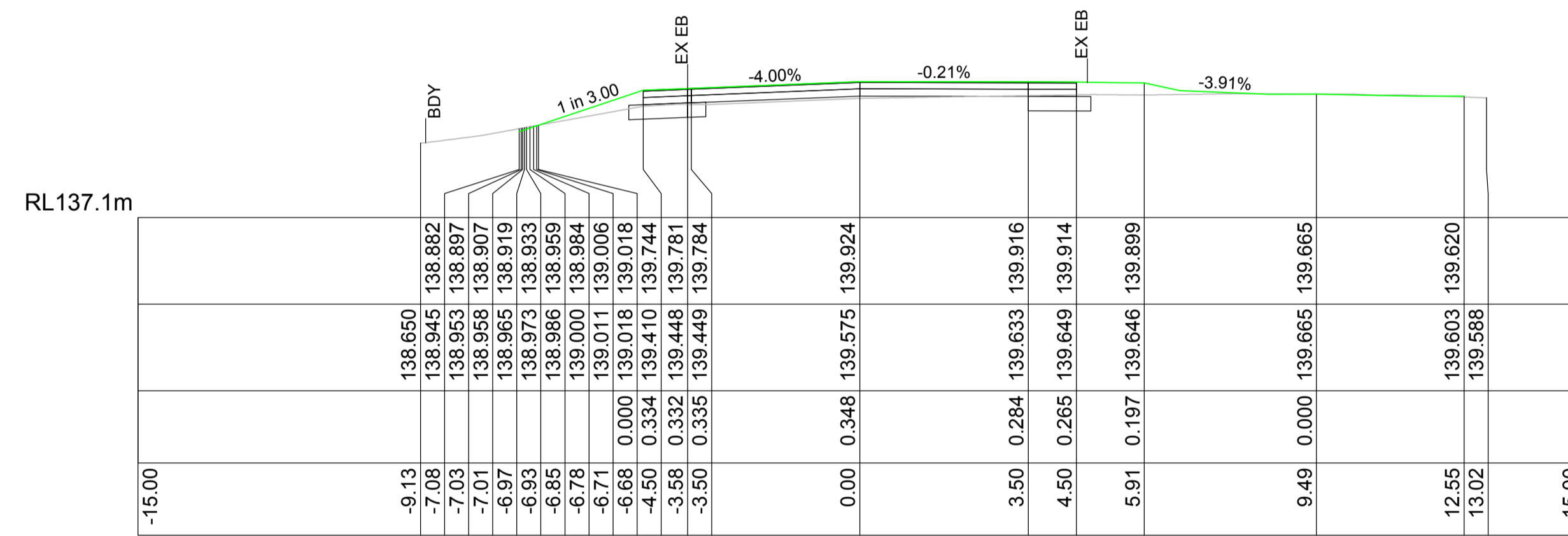




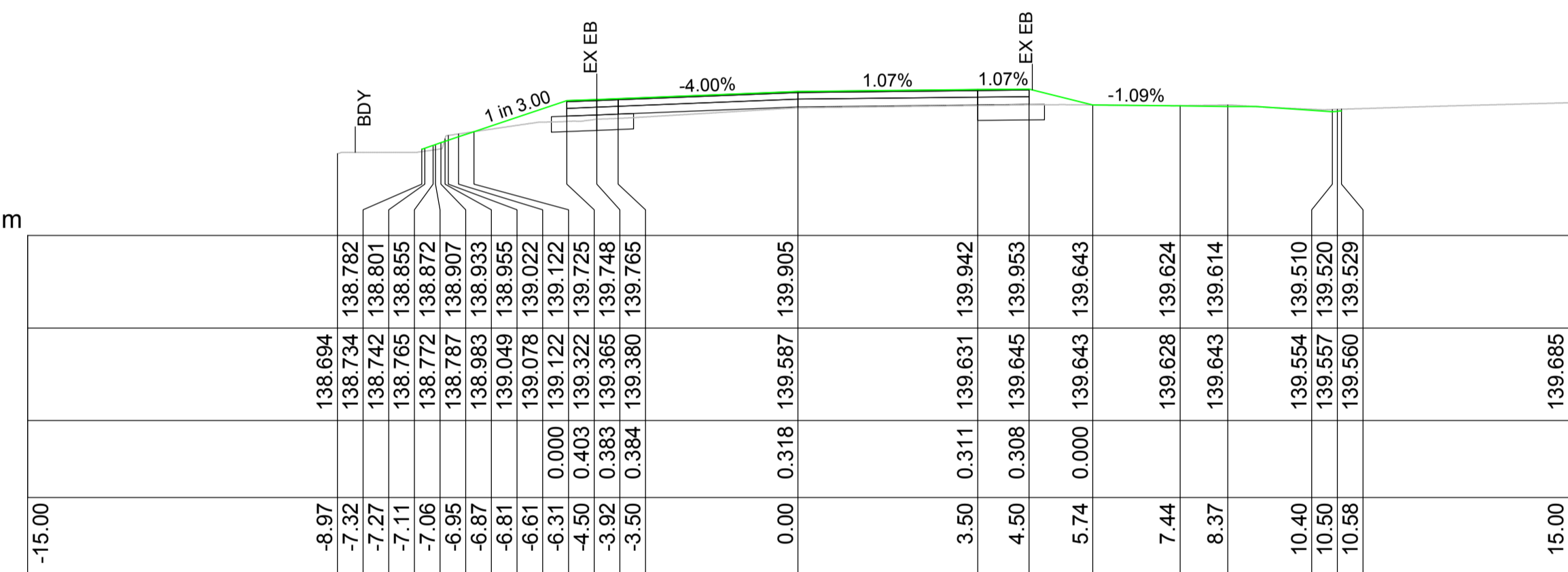
CH 1030.00 m  
SANDY CREEK ROAD



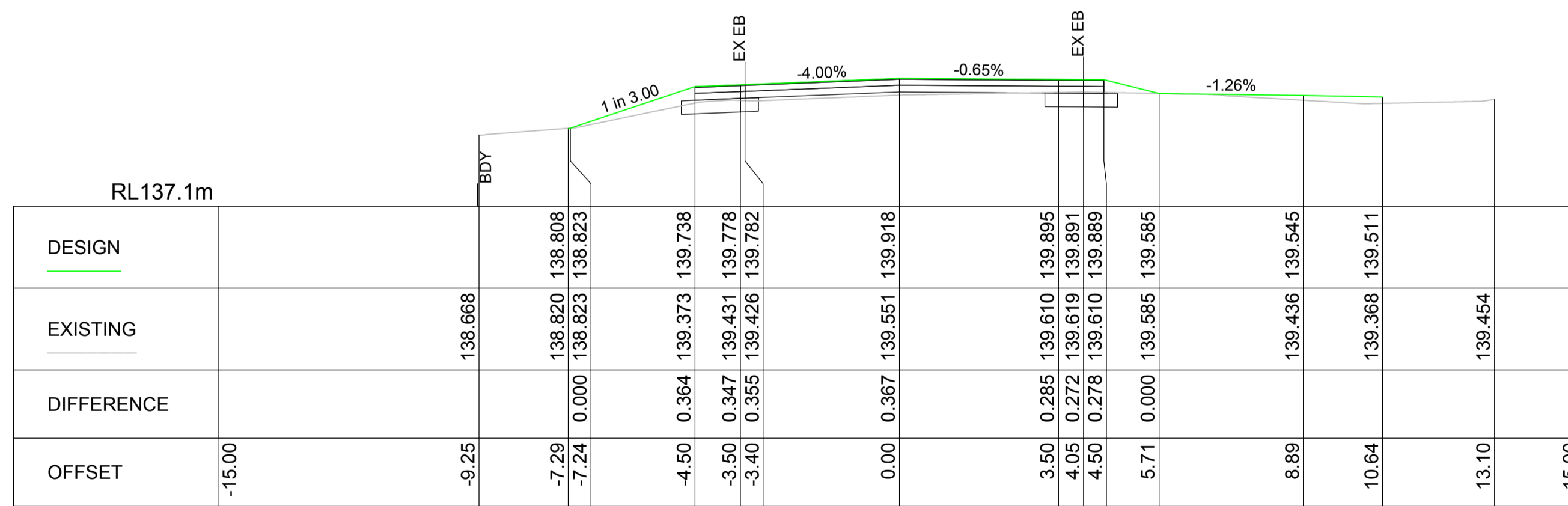
CH 1045.51 m  
SANDY CREEK ROAD



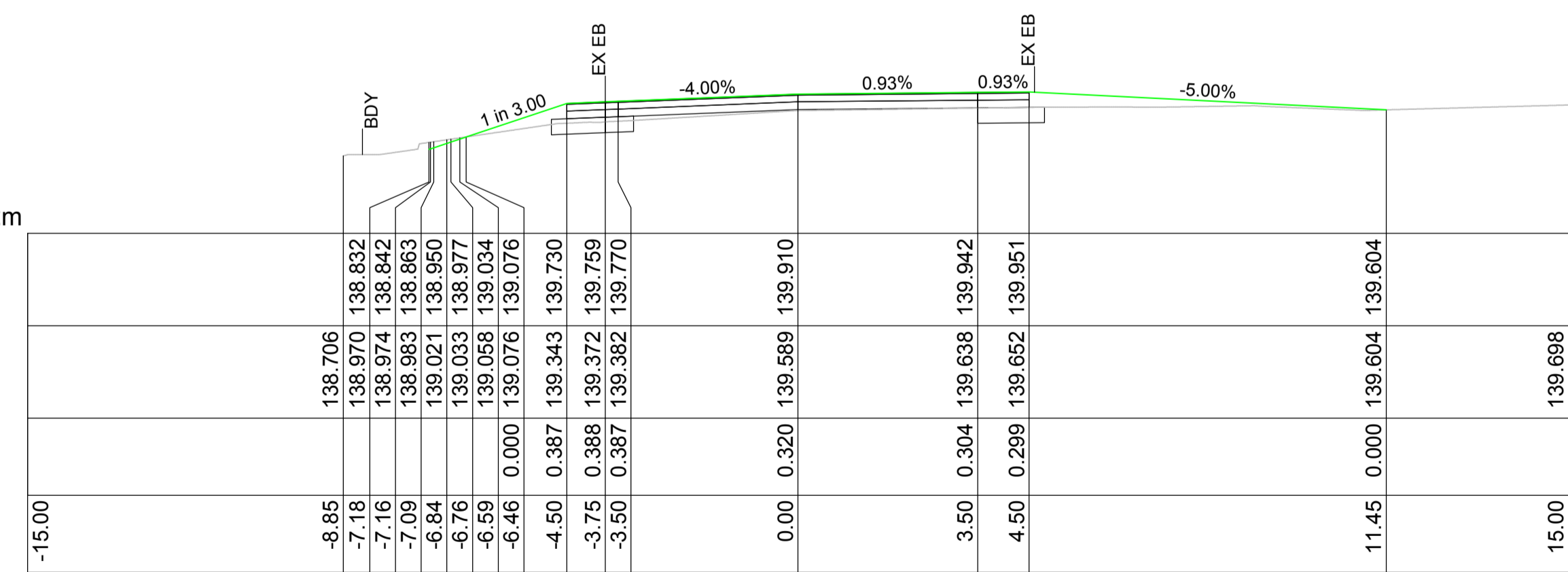
CH 1020.00 m  
SANDY CREEK ROAD



CH 1042.42 m  
SANDY CREEK ROAD



CH 1012.42 m  
SANDY CREEK ROAD



CH 1040.00 m  
SANDY CREEK ROAD

	DESIGN	EXISTING	DIFFERENCE	OFFSET
		138.668		-15.00
		138.808		-9.25
		138.823		-7.29
		138.823		-7.24
		139.738		-4.50
		139.778		-3.50
		139.782		-3.40
		139.918		0.00
		139.895		3.50
		139.891		4.05
		139.889		4.50
		139.585		5.71
		139.545		8.89
		139.511		10.64
		139.454		13.10
		139.698		15.00

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

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AL Civil Design  
5 Yew Street  
GILLIESTON HEIGHTS NSW 2321  
0466 253 917

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SURVEY:	DELFS LASCELLES
DESIGN:	M.M
DRAWN:	M.M
CHECKED:	M.M
DATE:	11.08.2023
APPROVED:	M.M

CLIENT	CESSNOCK CITY COUNCIL
PLAN:	LONGITUDINAL SECTION HORIZ. N/A VERT. N/A
CROSS SECTION	HORIZ. 1:100 VERT. 1:100

PROJECT  
**LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG**

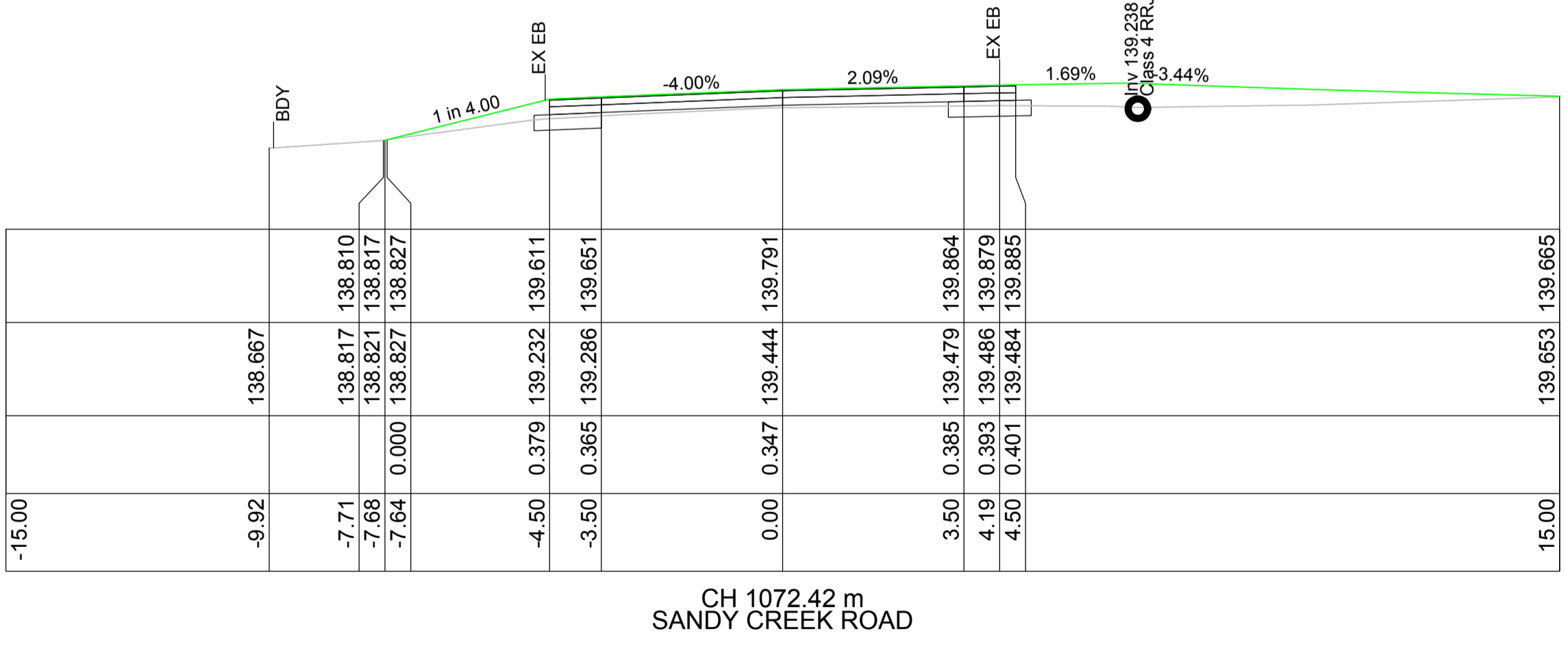
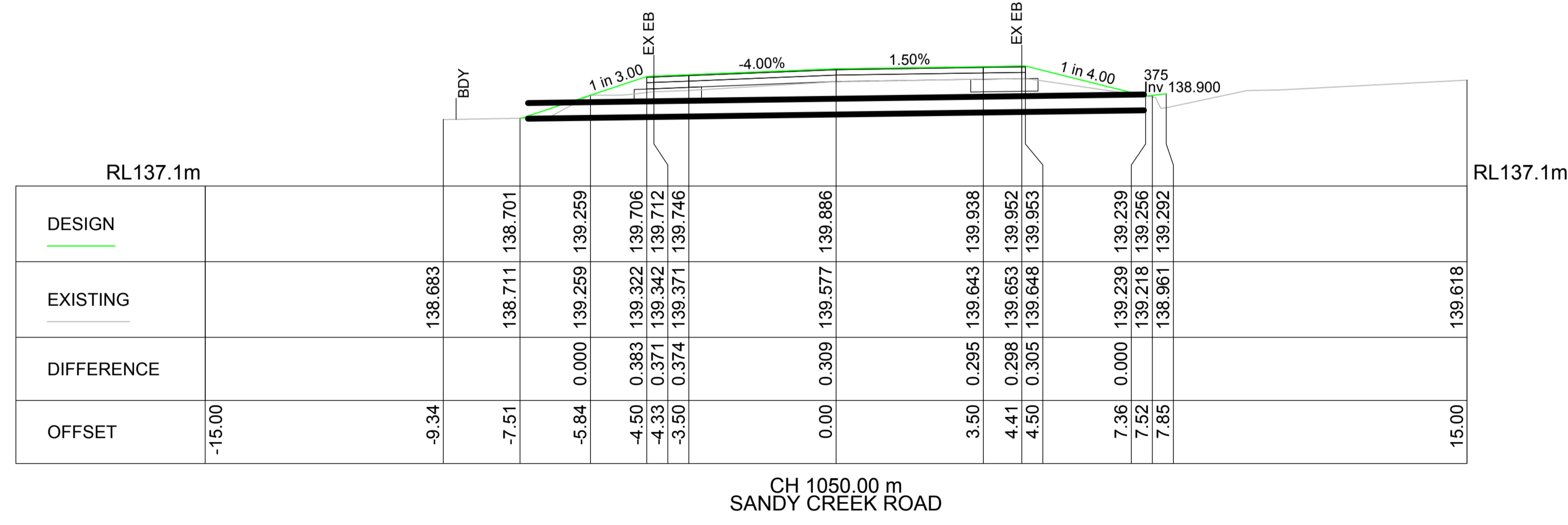
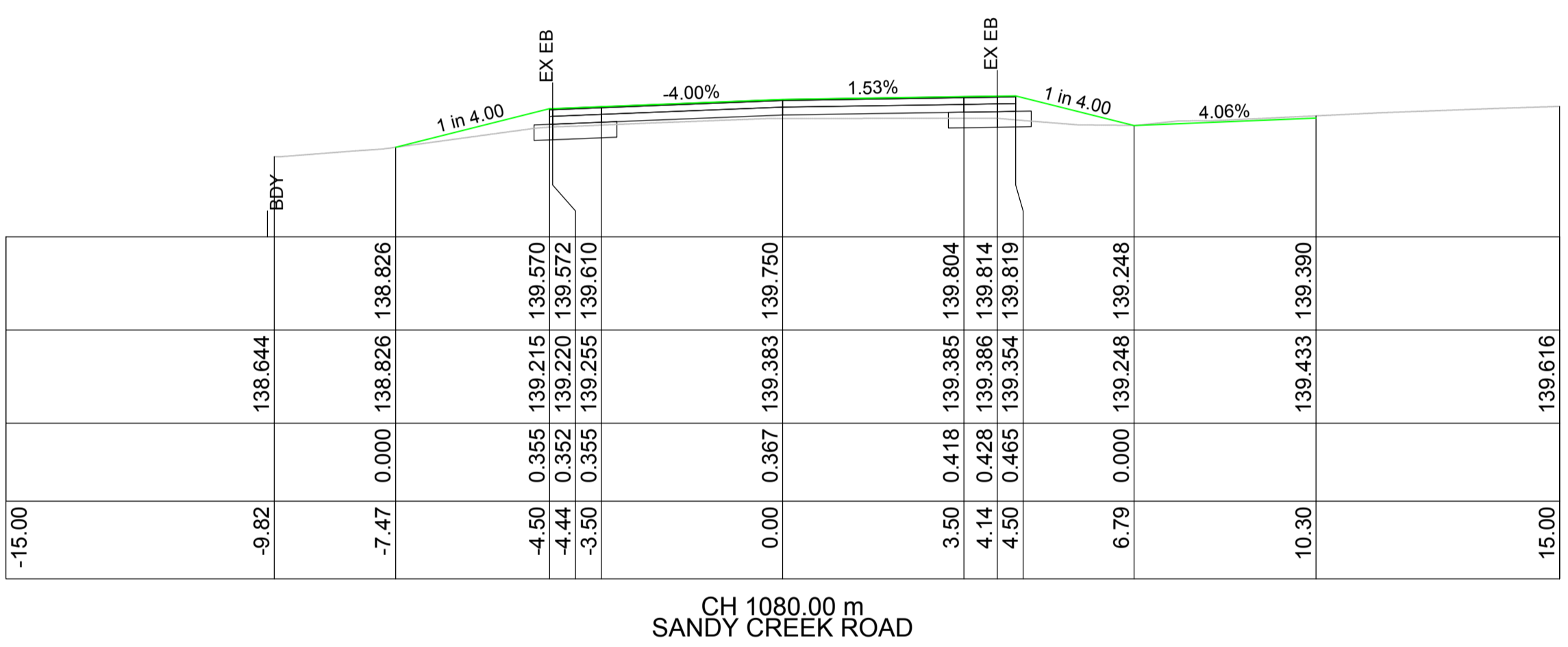
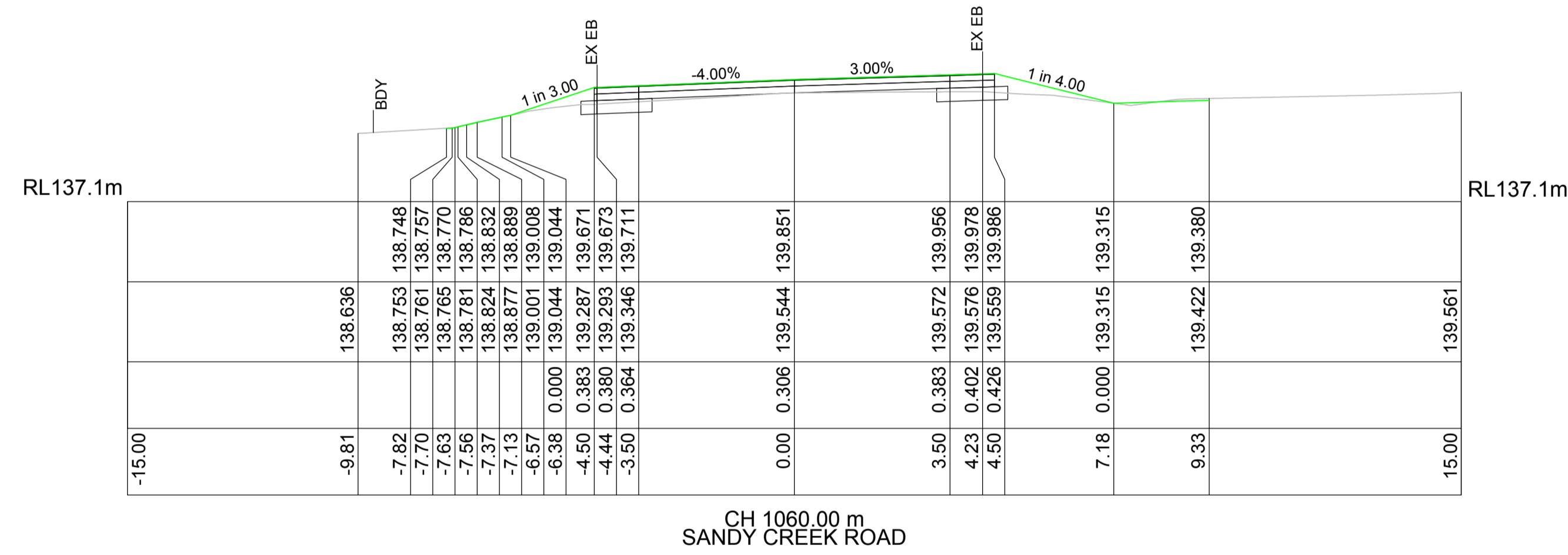
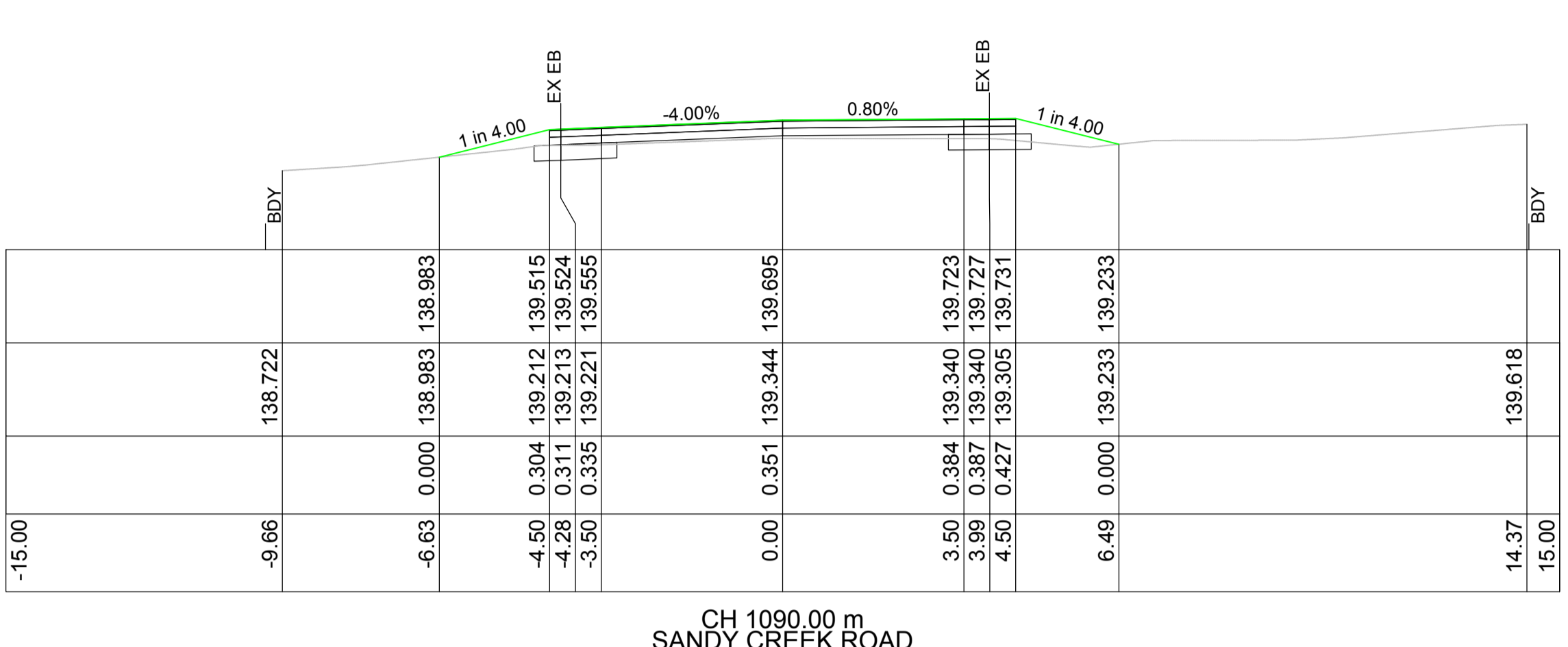
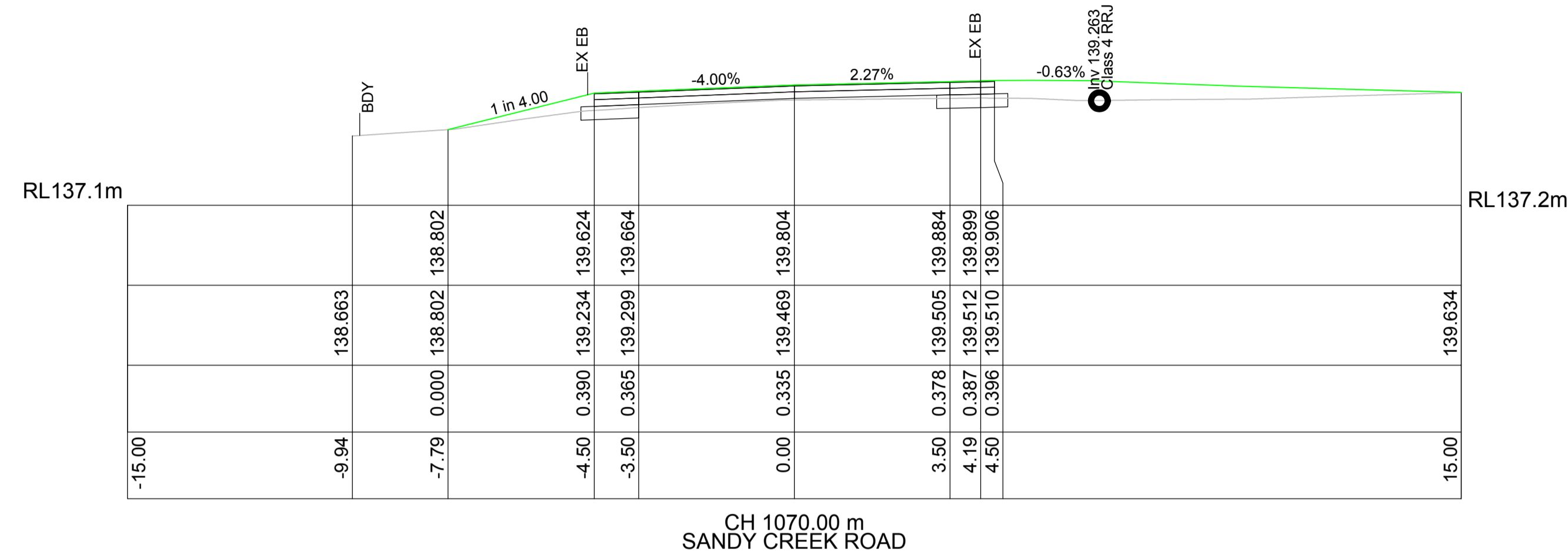
DRAWING TITLE  
**CROSS SECTIONS SHEET 27 OF 72**

**SHEET 41 OF 116 SHEETS**

PROJECT No	AL22077	REVISION	1
DWG No	C05-41		

**CONSTRUCTION**

2 1 0 2 4 6  
1:100 (A1)



	DESIGN	EXISTING	DIFFERENCE	OFFSET
RL137.1m				
		138.683		-15.00
		138.701		-9.34
		138.711		-7.51
		138.721		-5.84
		138.731		-4.50
		138.741		-4.33
		138.751		-3.50
		138.761		0.00
		138.771		0.309
		138.781		0.295
		138.791		0.298
		138.801		0.305
		138.811		0.000
		138.821		7.36
		138.831		7.52
		138.841		7.85
		138.851		139.239
		138.861		139.256
		138.871		139.292
		138.881		139.938
		138.891		139.952
		138.901		139.953
		138.911		139.886
		138.921		139.577
		138.931		139.577
		138.941		139.577
		138.951		139.577
		138.961		139.577
		138.971		139.577
		138.981		139.577
		138.991		139.577
		139.001		139.577
		139.011		139.577
		139.021		139.577
		139.031		139.577
		139.041		139.577
		139.051		139.577
		139.061		139.577
		139.071		139.577
		139.081		139.577
		139.091		139.577
		139.101		139.577
		139.111		139.577
		139.121		139.577
		139.131		139.577
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		139.161		139.577
		139.171		139.577
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		139.521		139.577
		139.531		139.577
		139.541		139.577
		139.551		139.577
		139.561		139.577
		139.571		139.577
		139.581		139.577
		139.591		139.577
		139.601		139.577
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		139.631		139.577
		139.641		139.577
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		139.681		139.577
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		140.001		139.577

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

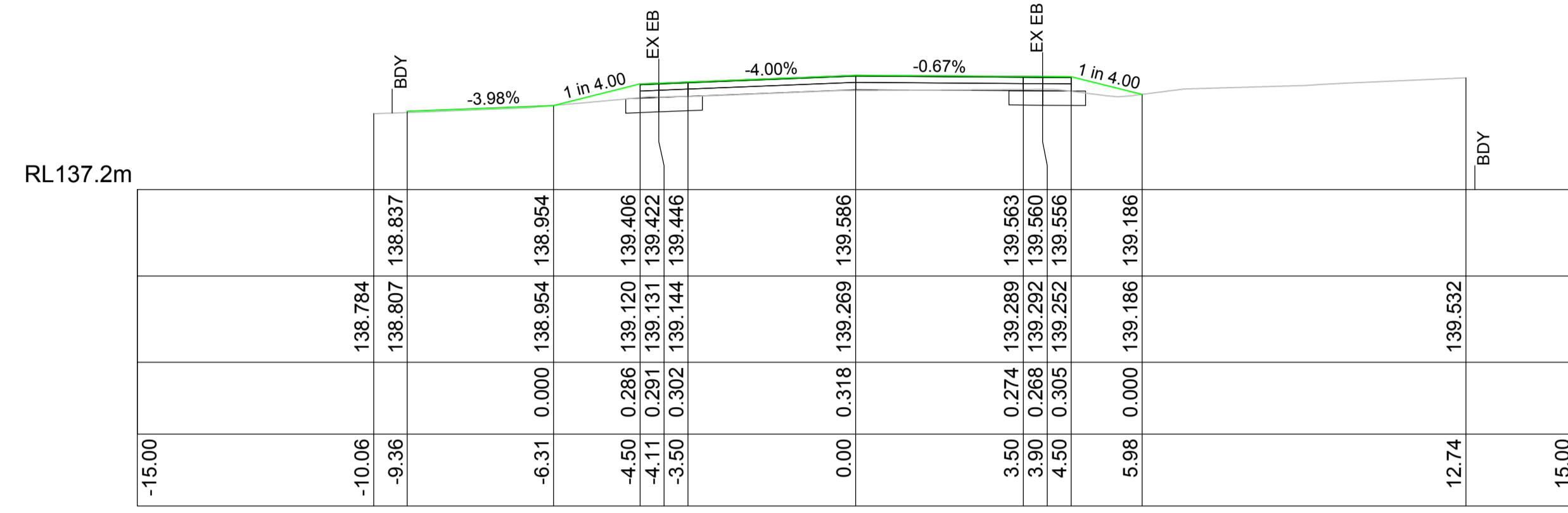


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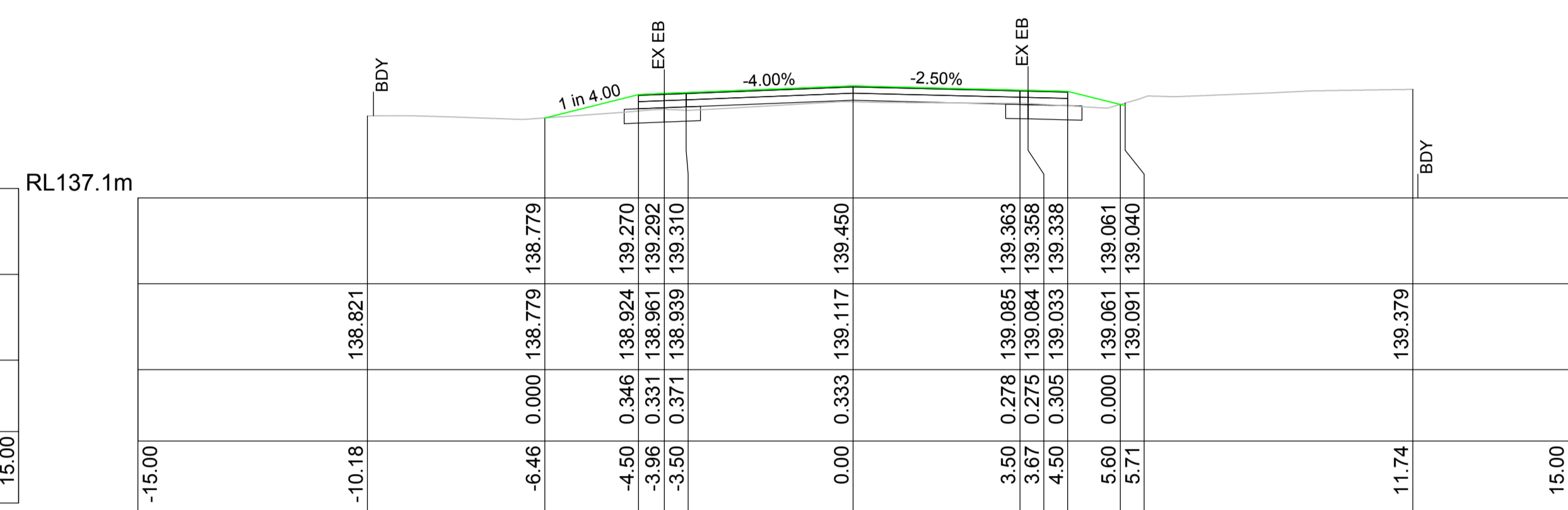
SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M		
DRAWN:	M.M		
CHECKED:	M.M		
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION HORIZ. N/A VERT. N/A
APPROVED:	M.M	CROSS SECTION:	HORIZ. 1:100 VERT. 1:100

PROJECT  
**LOCAL ROAD RENEWAL  
 STAGE 1 & STAGE 2  
 SANDY CREEK ROAD, QUORROBOLONG**  
 DRAWING TITLE  
**CROSS SECTIONS SHEET 28 OF 72**  
**SHEET 42 OF 116 SHEETS**

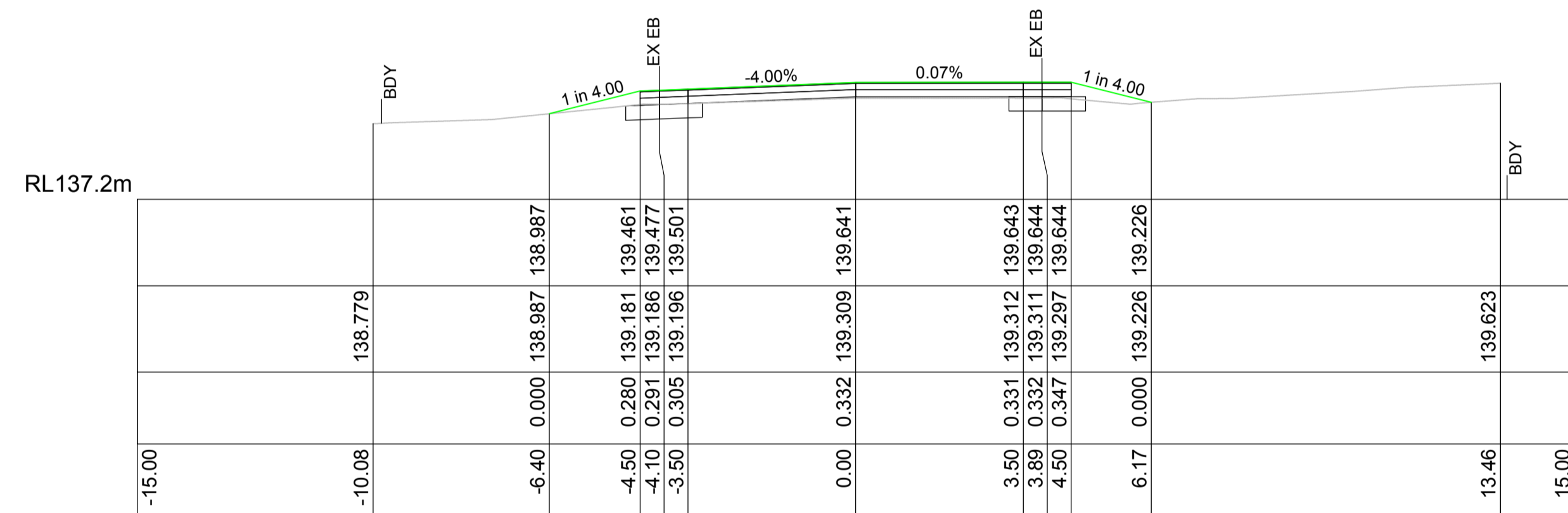
PROJECT No	AL22077	REVISION	1
DWG No	C05-42		
<b>CONSTRUCTION</b>			



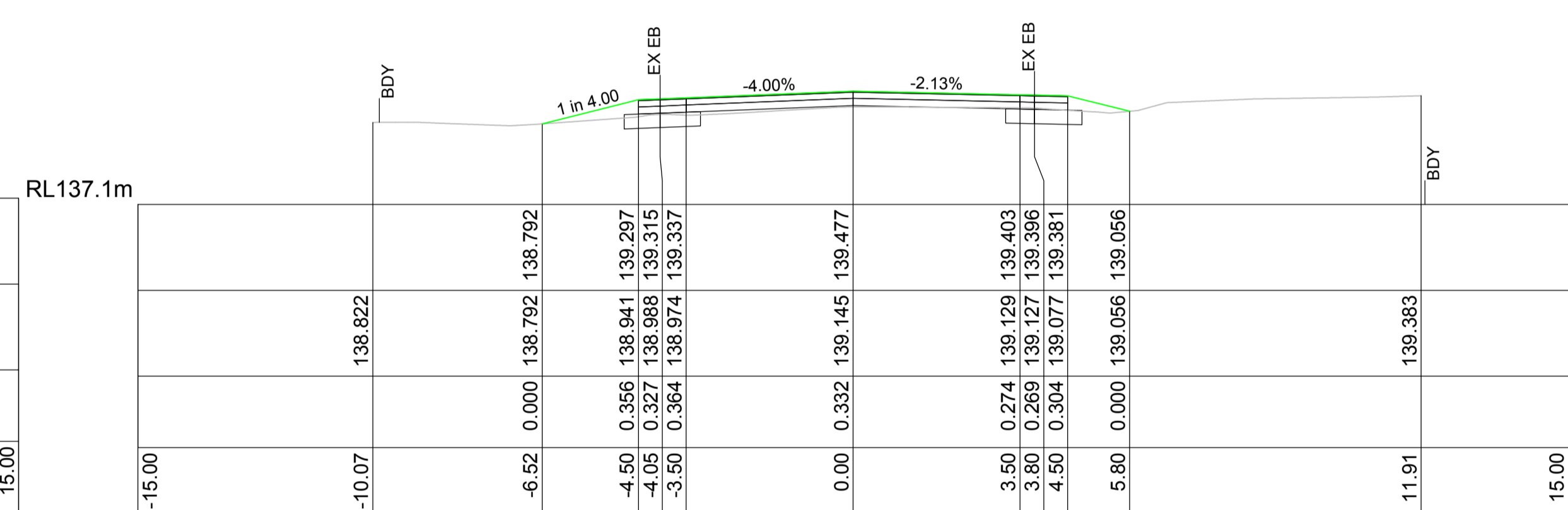
CH 1110.00 m  
SANDY CREEK ROAD



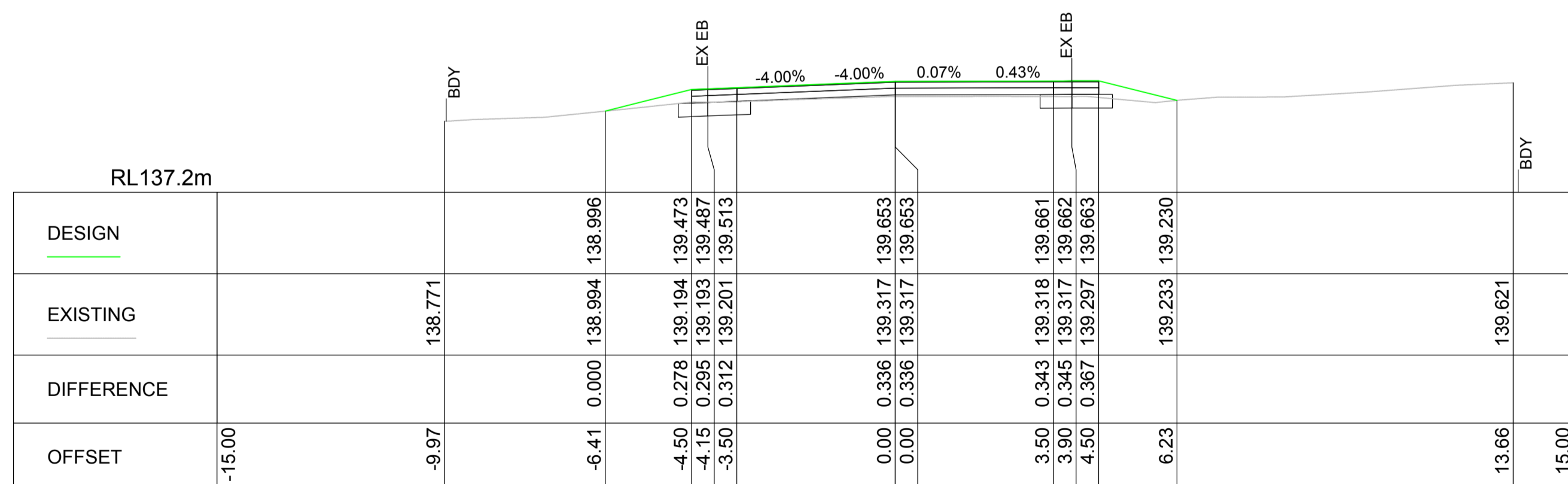
CH 1135.00 m  
SANDY CREEK ROAD



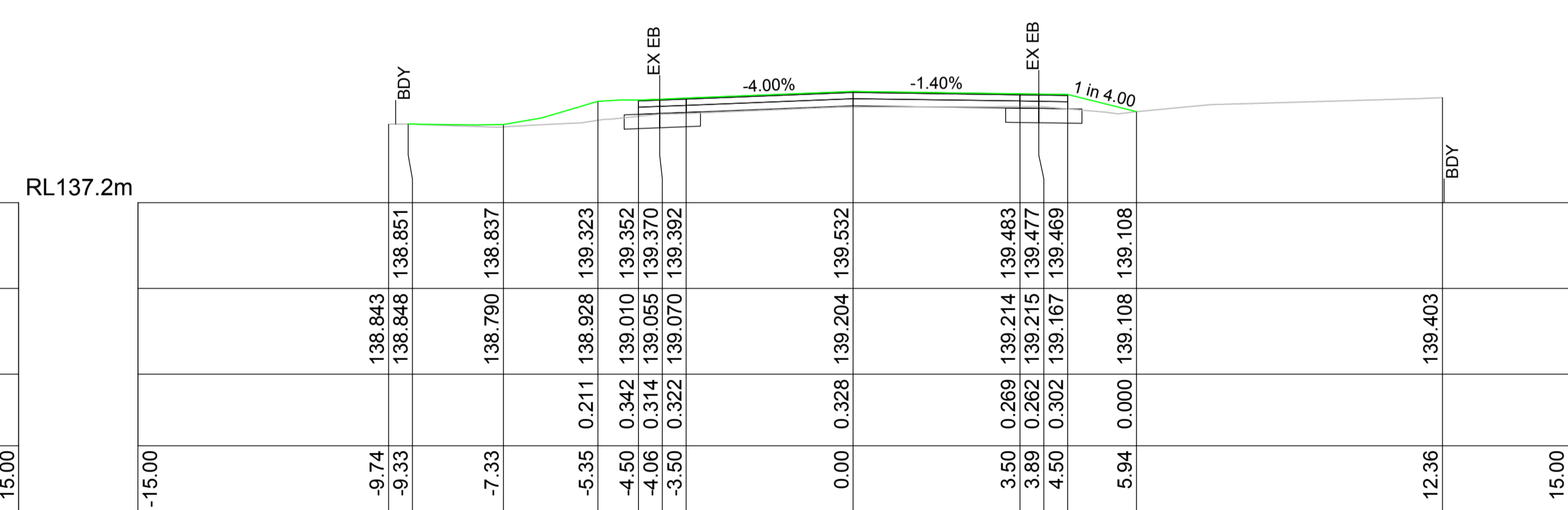
CH 1100.00 m  
SANDY CREEK ROAD



CH 1130.00 m  
SANDY CREEK ROAD



CH 1097.78 m  
SANDY CREEK ROAD



CH 1120.00 m  
SANDY CREEK ROAD

	DESIGN	EXISTING	DIFFERENCE	OFFSET
RL137.2m				
		138.771		-15.00
		138.994	0.000	-9.97
		139.194	0.278	-6.41
		139.487	0.295	-4.50
		139.513	0.312	-4.15
		139.653	0.336	-3.50
		139.653	0.336	0.00
		139.661	0.343	0.00
		139.662	0.345	3.50
		139.663	0.367	3.90
		139.230	0.000	4.50
		139.621		6.23
		139.621		13.66
				15.00

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

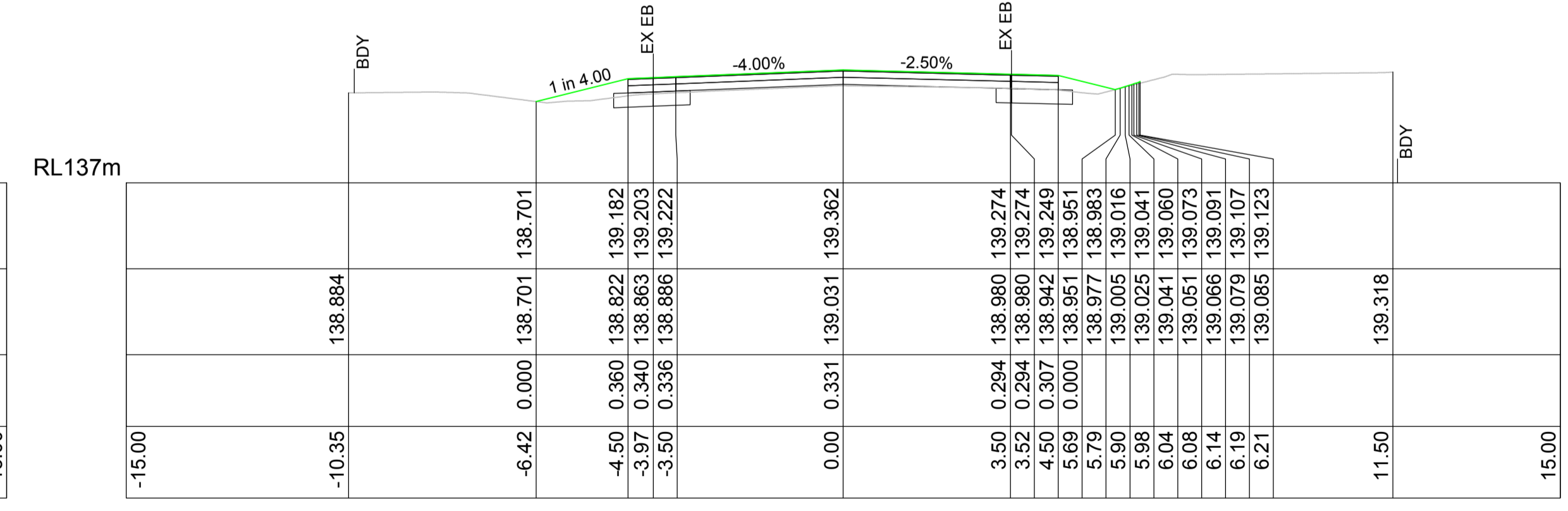
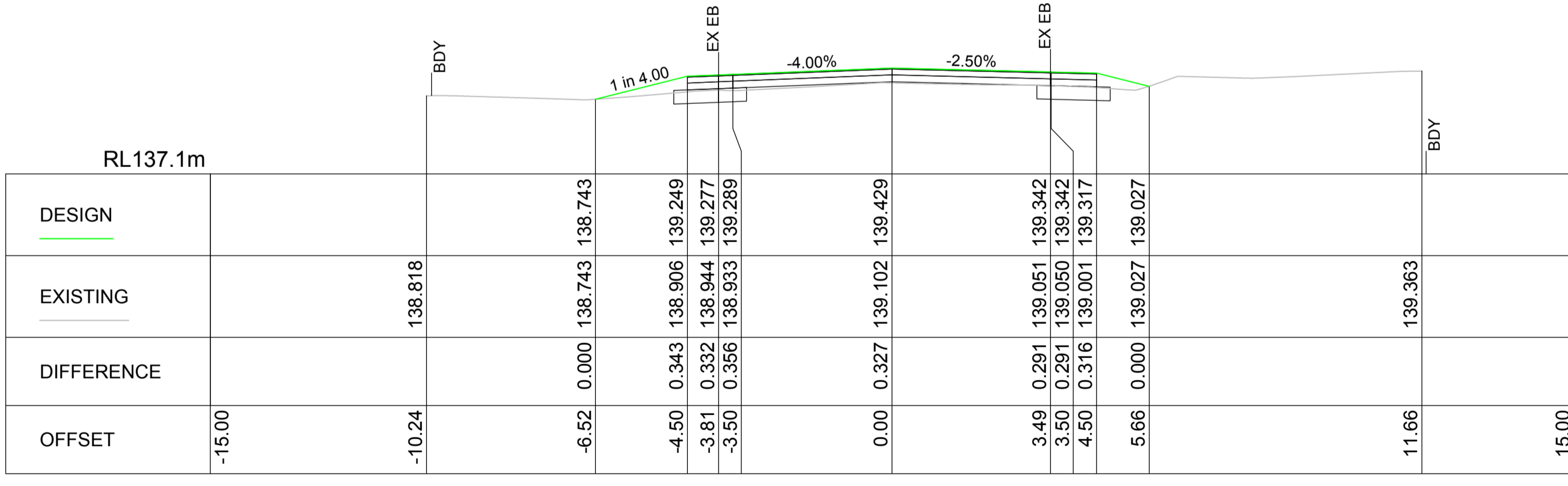
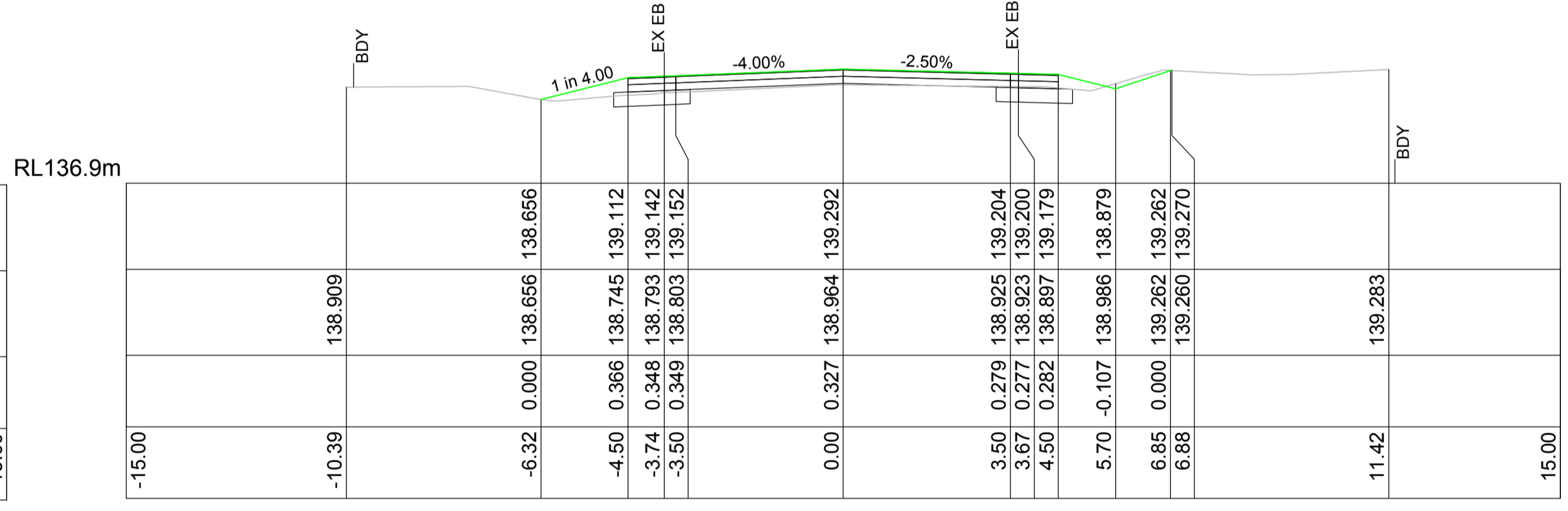
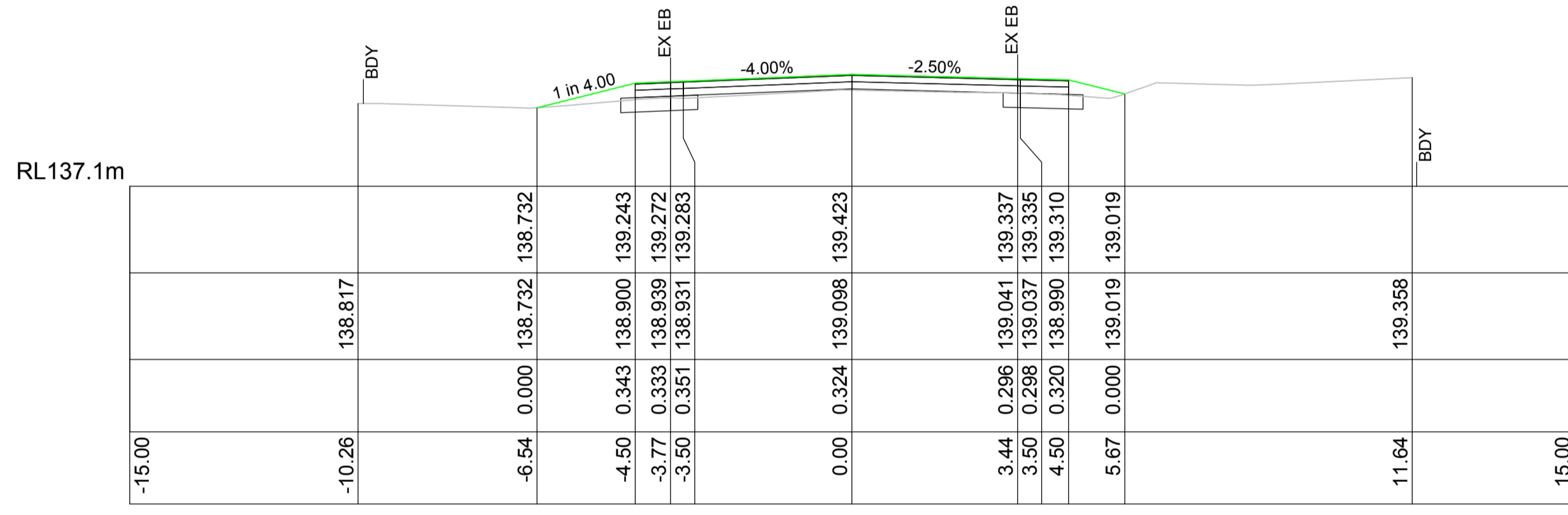
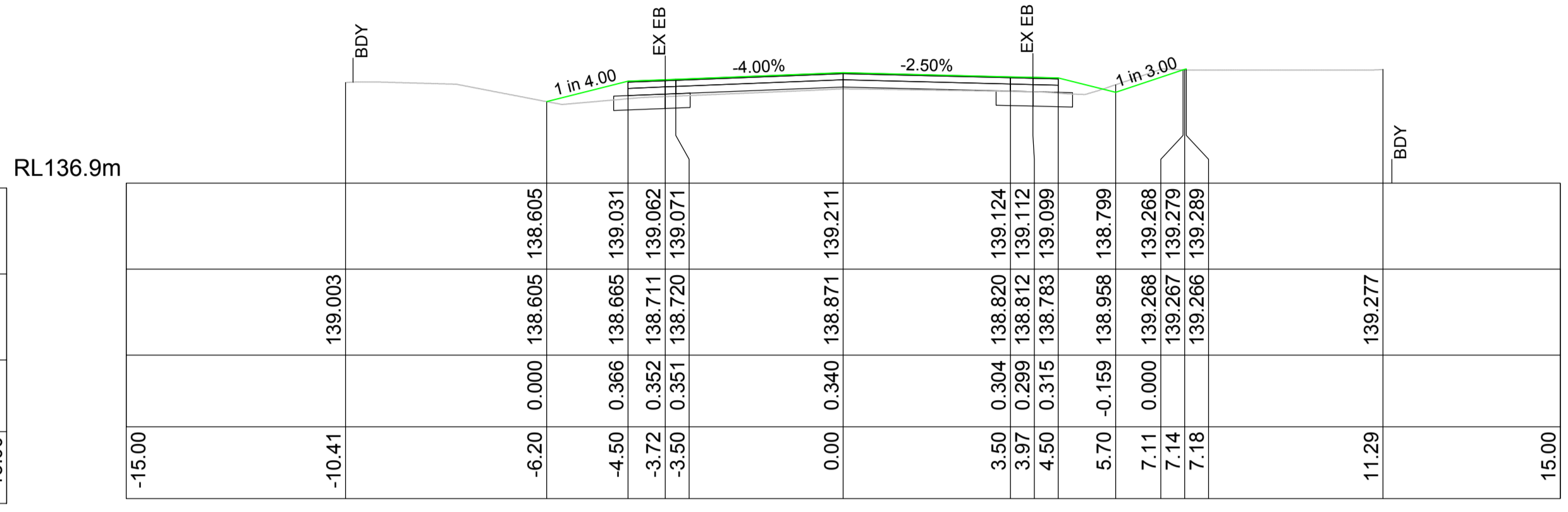
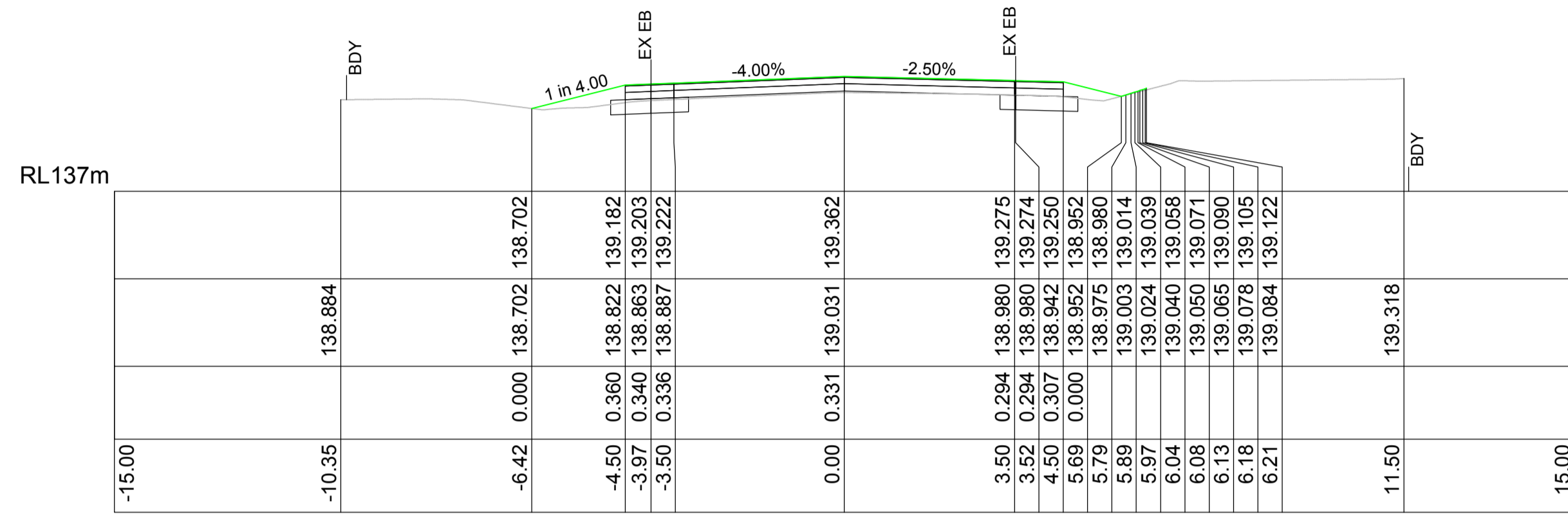


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SURVEY: DELFS LASCELLES	CLIENT: CESSNOCK CITY COUNCIL
DESIGN: M.M	
DRAWN: M.M	
CHECKED: M.M	
DATE: 11.08.2023	PLAN: LONGITUDINAL SECTION CROSS SECTION
APPROVED: M.M	1:100 (A1) HORIZ. N/A HORIZ. 1:100
	VERT. N/A VERT. 1:100

PROJECT: LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWING TITLE: CROSS SECTIONS SHEET 29 OF 72
SHEET 43 OF 116 SHEETS

PROJECT No: AL22077	REVISION: 1
DWG No: C05-43	
<b>CONSTRUCTION</b>	



DESIGN	
EXISTING	138.818
DIFFERENCE	
OFFSET	-15.00

1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE

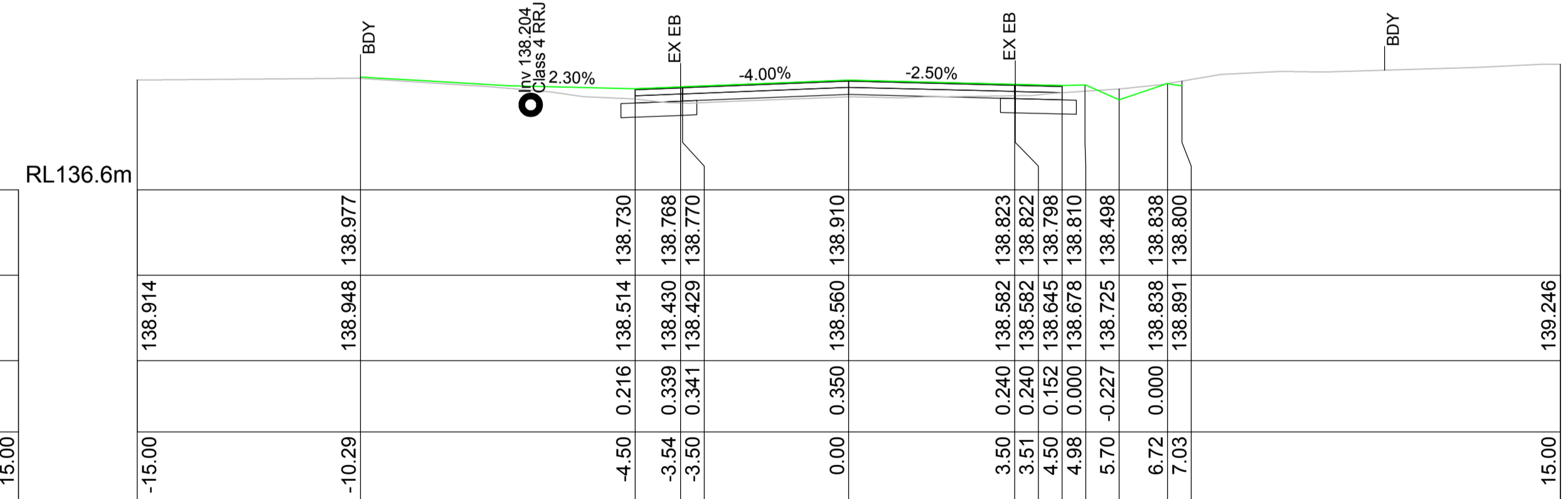
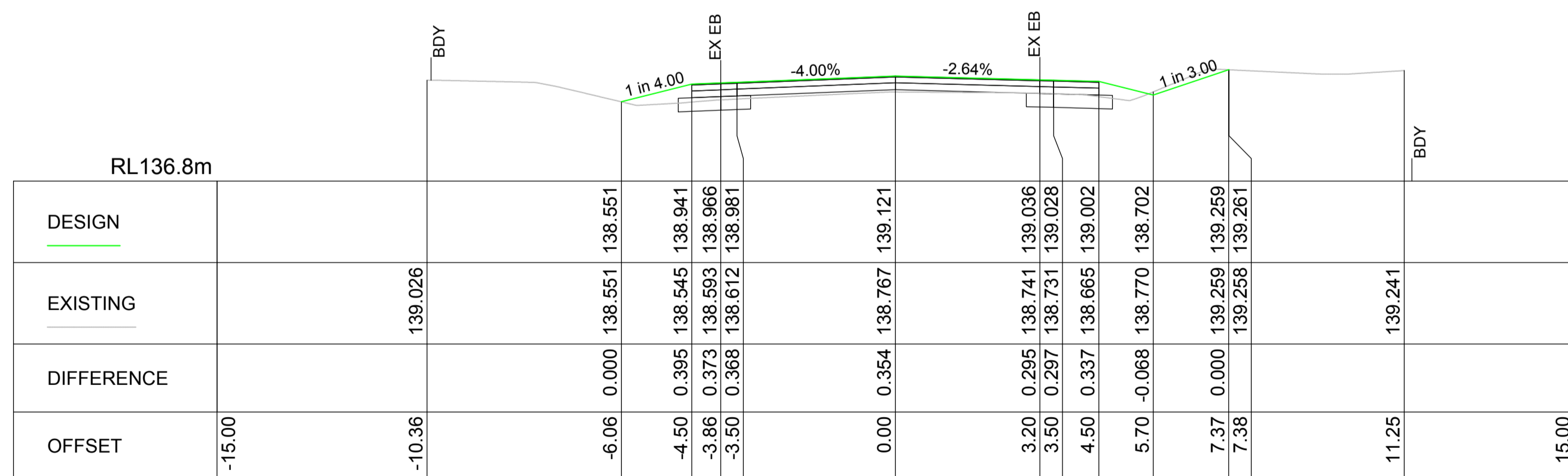
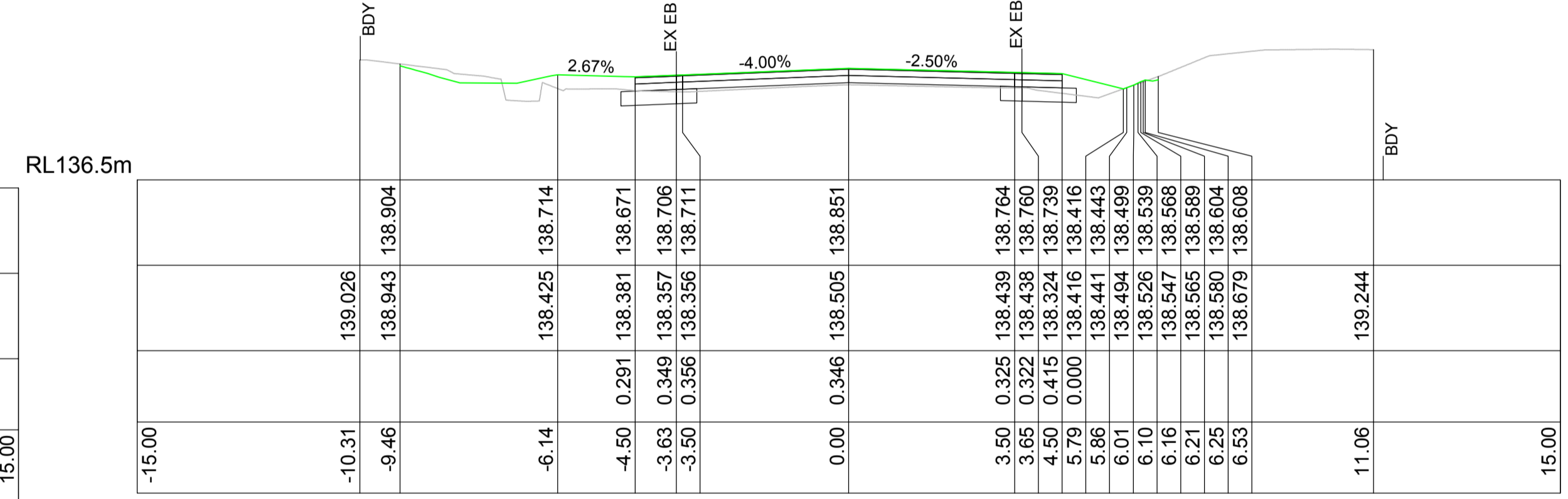
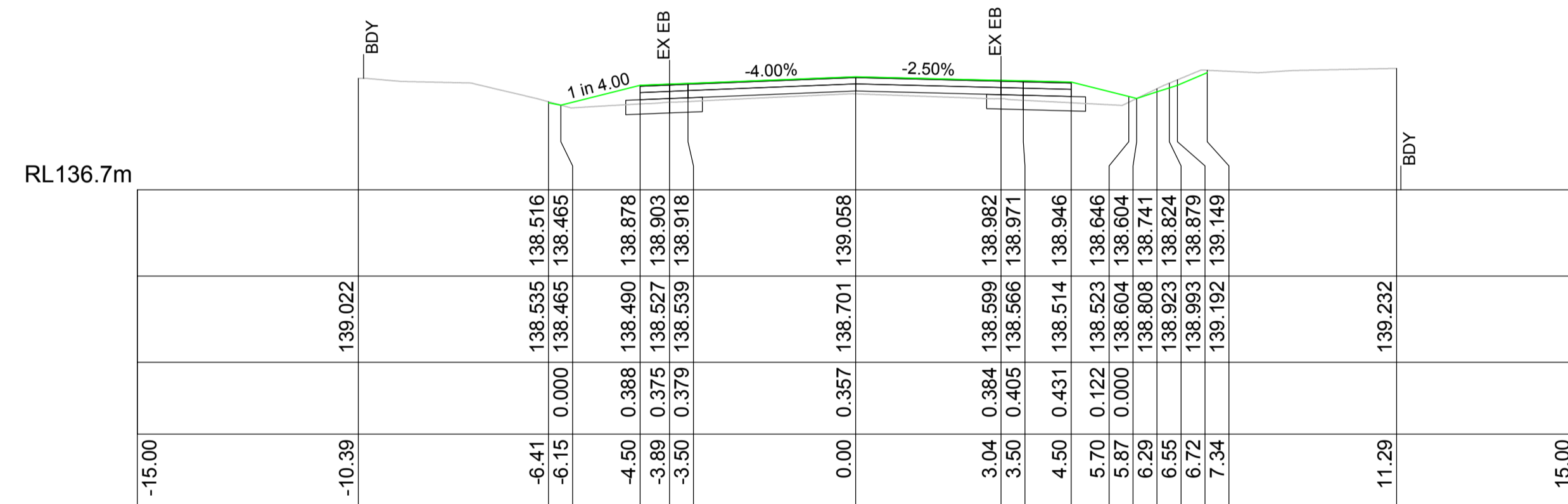
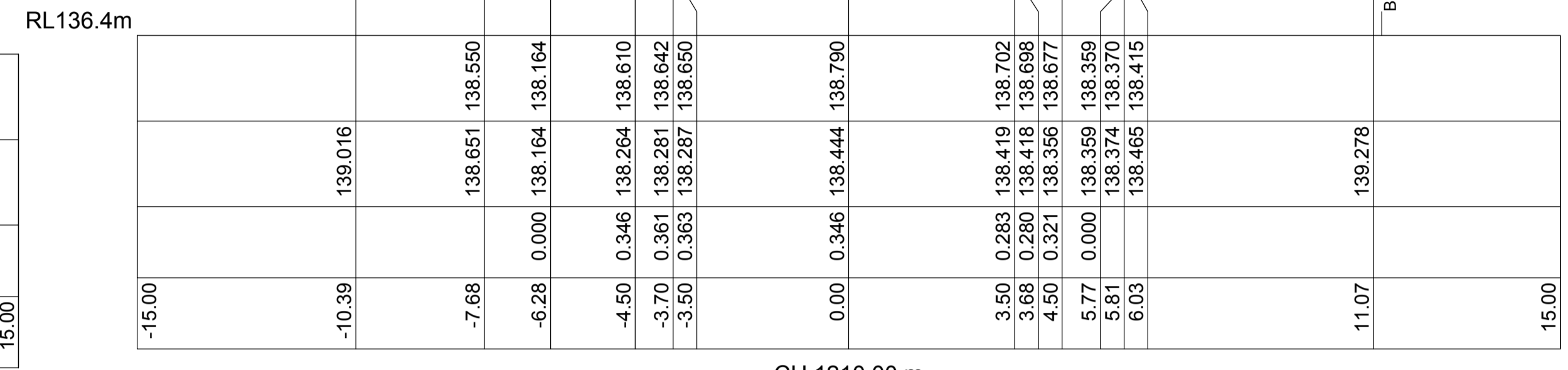
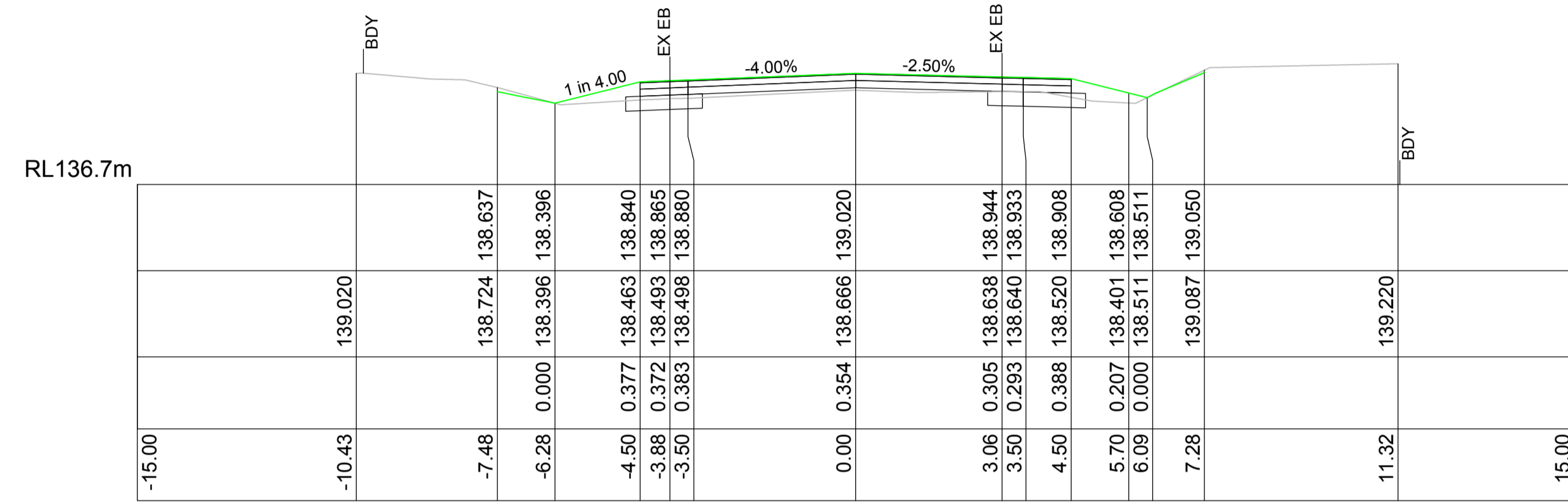


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SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M		
DRAWN:	M.M		
CHECKED:	M.M		
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION HORIZ. N/A VERT. N/A
APPROVED:	M.M	CROSS SECTION:	HORIZ. 1:100 VERT. 1:100

PROJECT:	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWING TITLE:	CROSS SECTIONS SHEET 30 OF 72
<b>SHEET 44 OF 116 SHEETS</b>	

PROJECT No:	AL22077	REVISION:	1
DWG No:	C05-44		
<b>CONSTRUCTION</b>			



DESIGN	EXISTING	DIFFERENCE	OFFSET

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23



**DISCLAIMER**

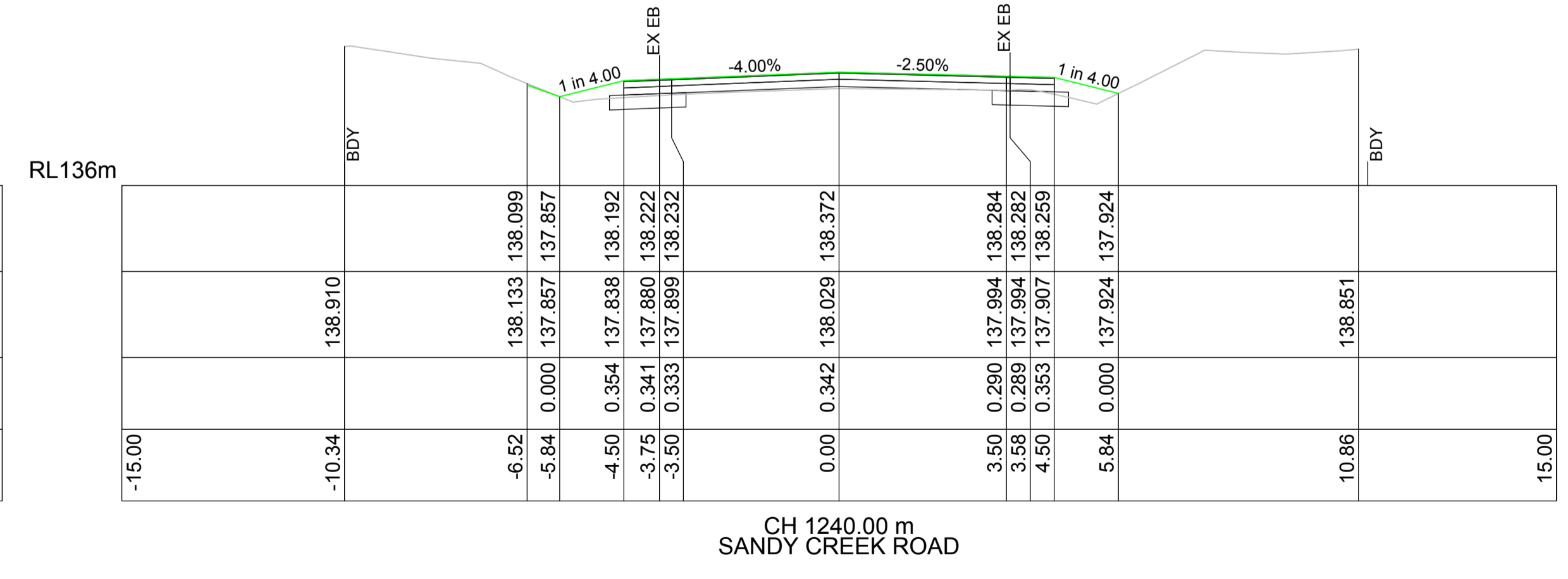
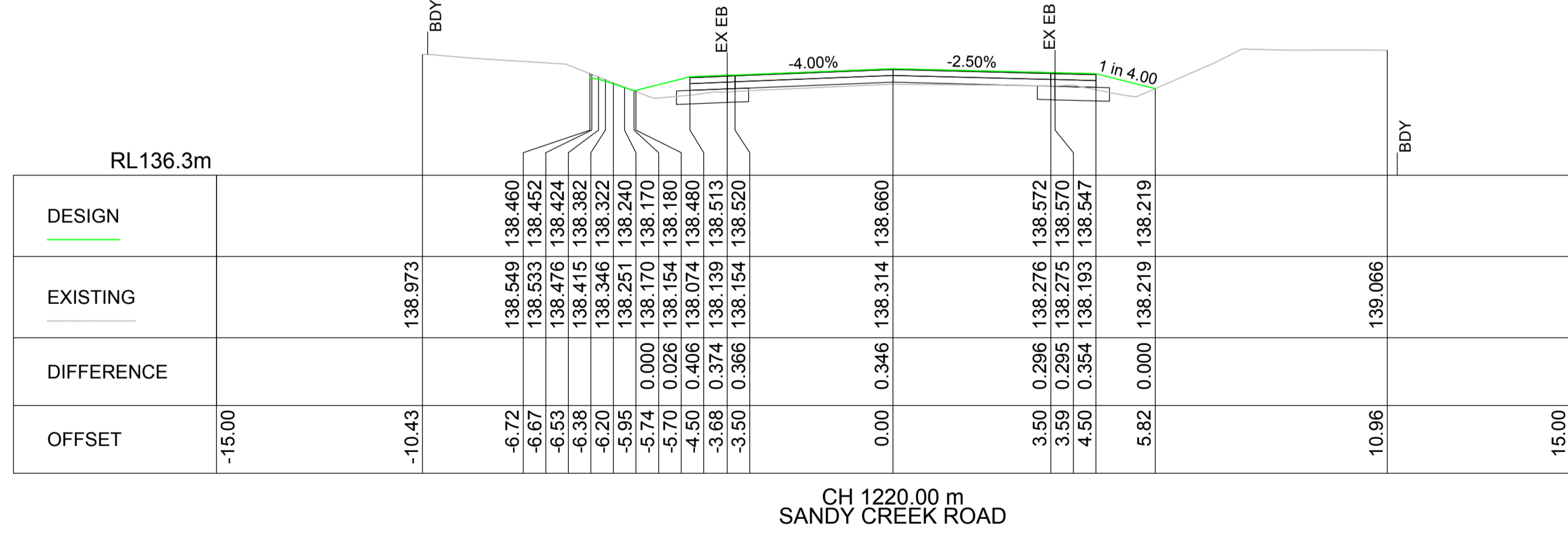
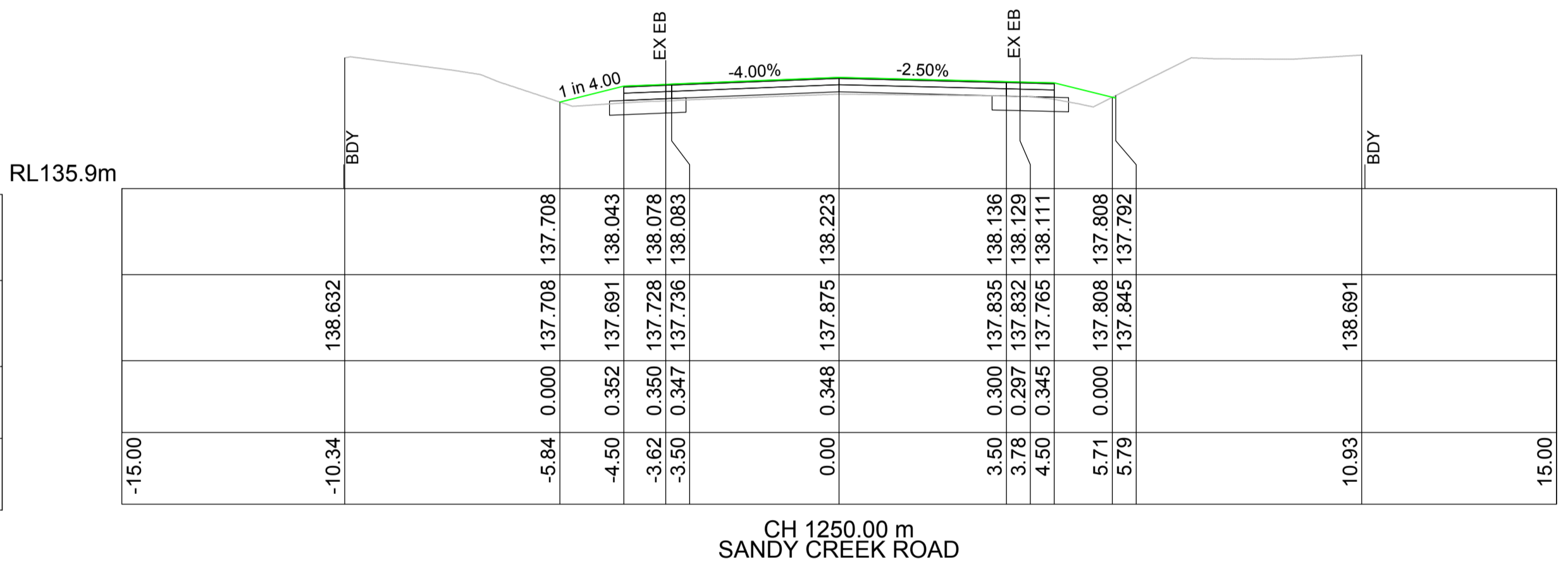
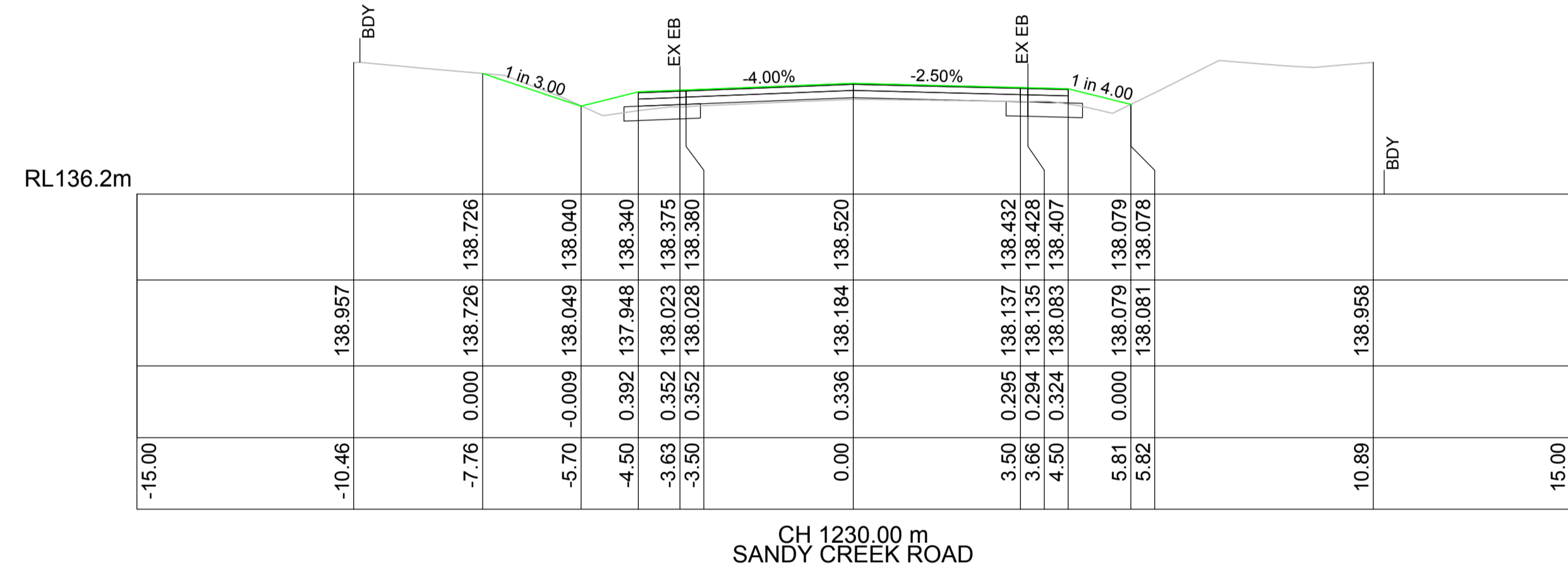
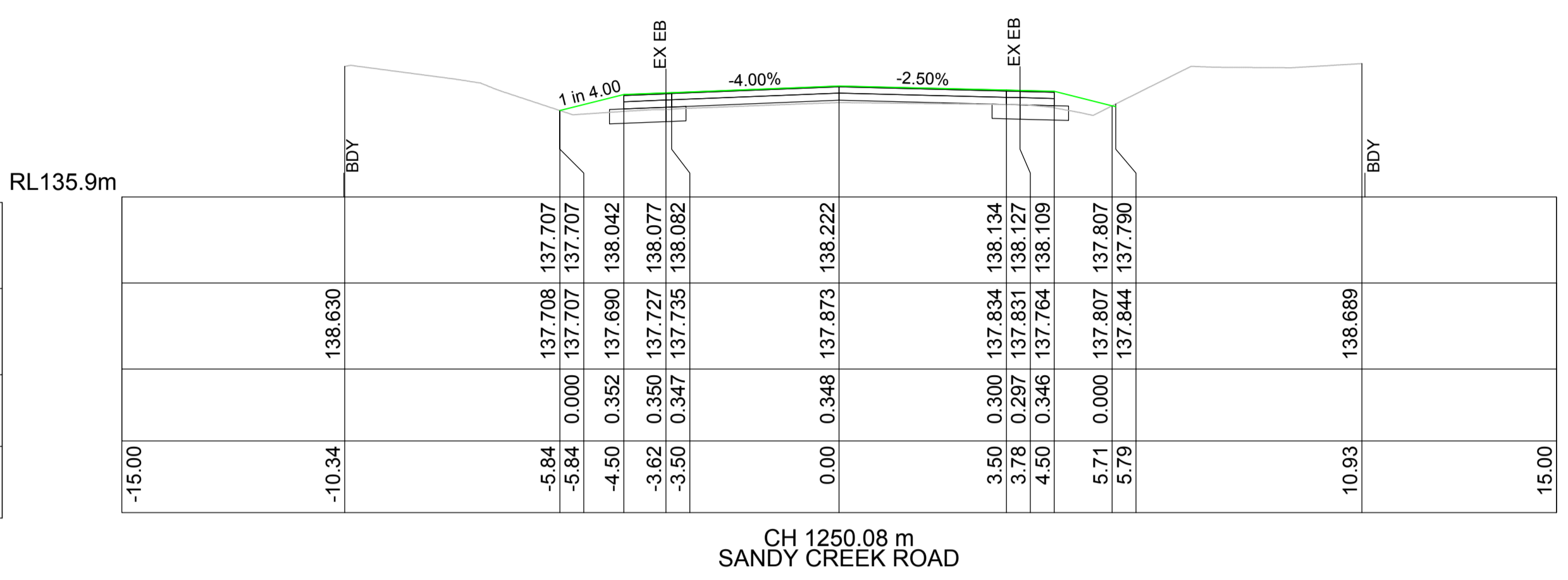
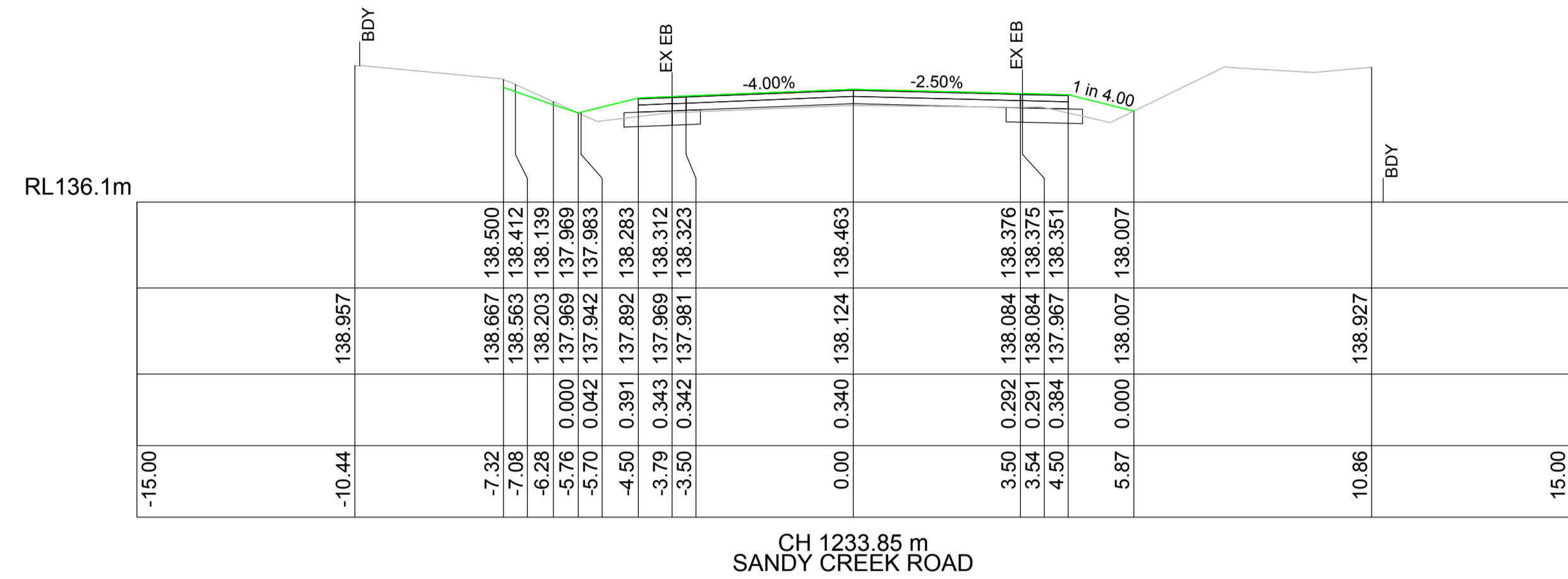
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SURVEY:	DELFS LASCELLES
DESIGN:	M.M
DRAWN:	M.M
CHECKED:	M.M
DATE:	11.08.2023
APPROVED:	M.M

CLIENT	CESSNOCK CITY COUNCIL	
PLAN:	LONGITUDINAL SECTION	CROSS SECTION
	HORIZ. N/A	HORIZ. 1:100
	VERT. N/A	VERT. 1:100

PROJECT	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWING TITLE	CROSS SECTIONS SHEET 31 OF 72
SHEET 45 OF 116 SHEETS	

PROJECT No	AL22077	REVISION	1
DWG No	C05-45		
<b>CONSTRUCTION</b>			
2 1 0 2 4 6 1:100 (A1)			



1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE

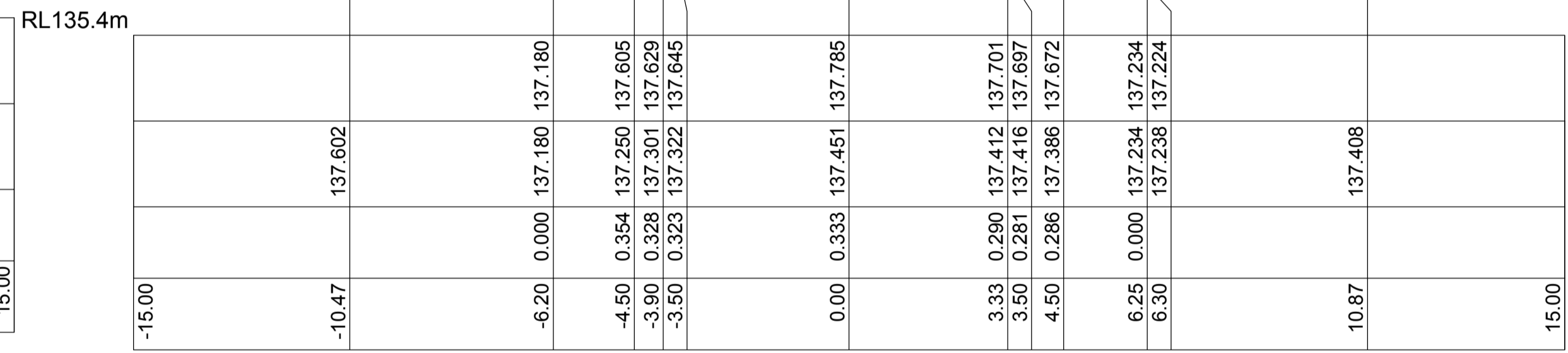
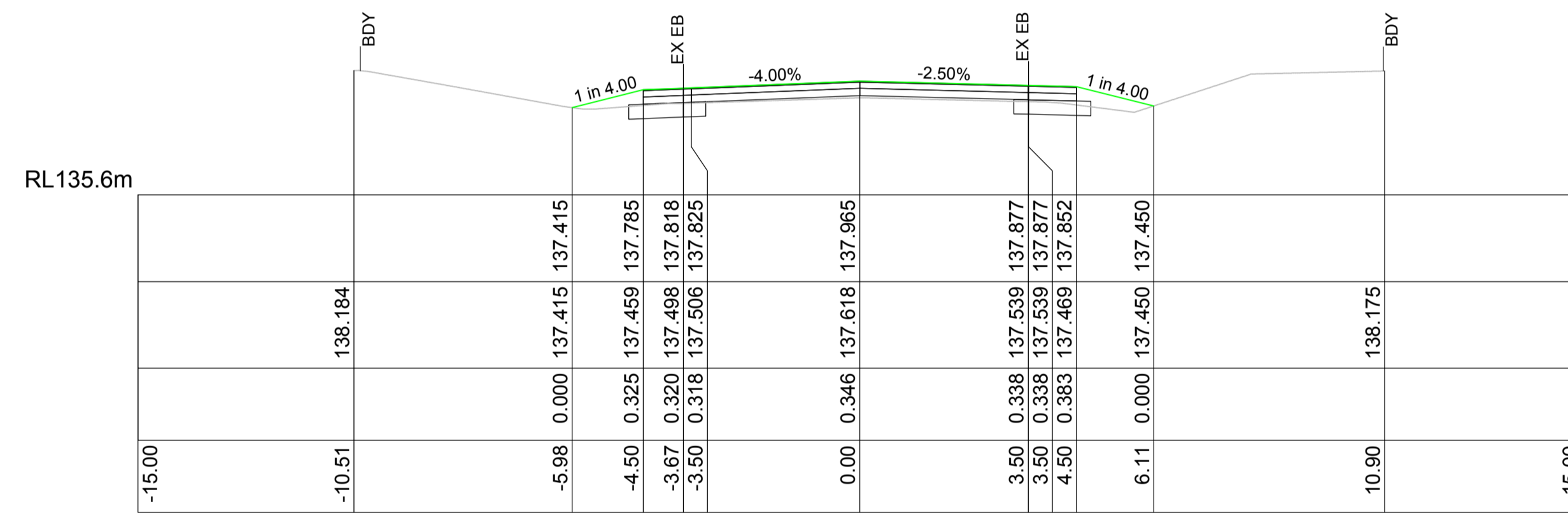
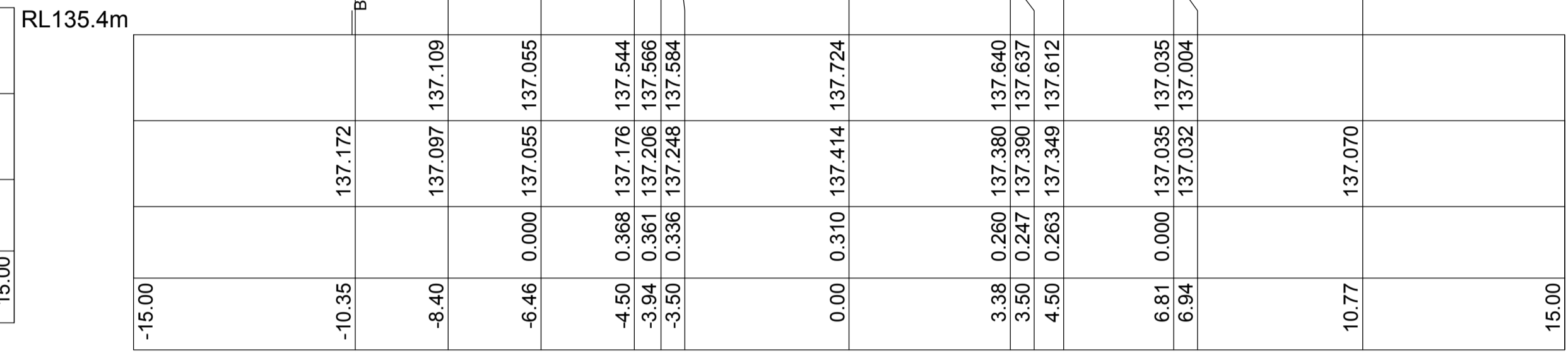
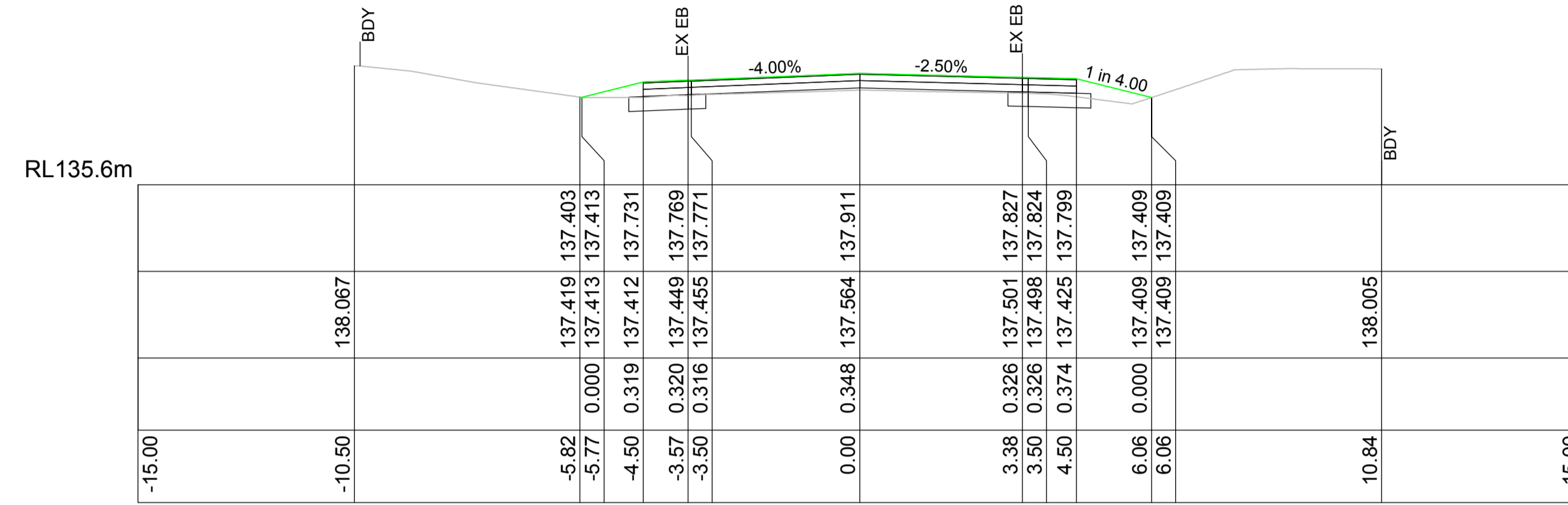


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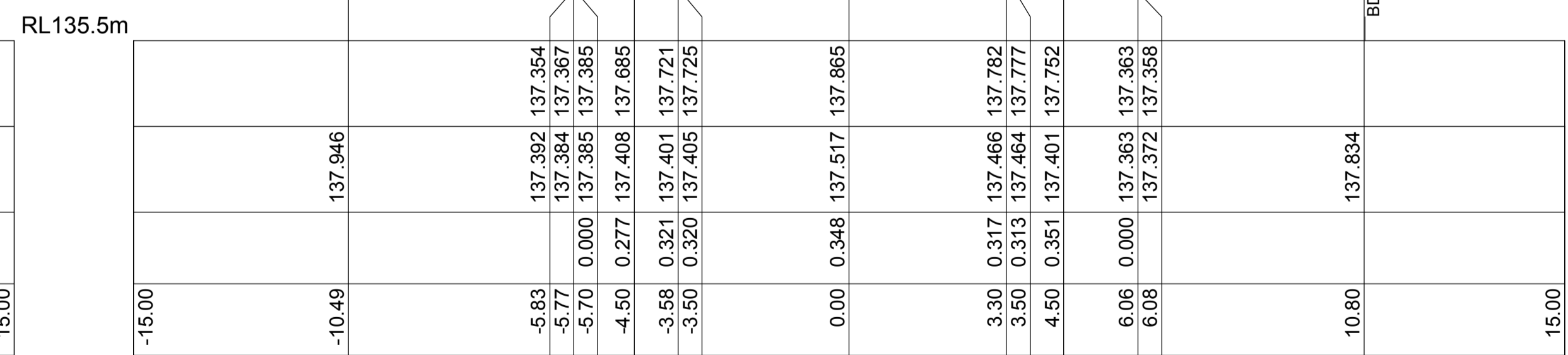
SURVEY:	DELFS LASCELLES	CLIENT	CESSNOCK CITY COUNCIL
DESIGN:	M.M		
DRAWN:	M.M		
CHECKED:	M.M		
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION HORIZ. N/A VERT. N/A
APPROVED:	M.M	CROSS SECTION:	HORIZ. 1:100 VERT. 1:100

PROJECT  
**LOCAL ROAD RENEWAL  
 STAGE 1 & STAGE 2  
 SANDY CREEK ROAD, QUORROBOLONG**  
 DRAWING TITLE  
**CROSS SECTIONS SHEET 32 OF 72**  
**SHEET 46 OF 116 SHEETS**

PROJECT No	AL22077	REVISION	1
DWG No	C05-46		
<b>CONSTRUCTION</b>			
2 1 0 2 4 6 1:100 (A1)			



RL135.7m		CH 1260.00 m SANDY CREEK ROAD																		
DESIGN																				
EXISTING		138.493																		
DIFFERENCE																				
OFFSET	-15.00	-10.41																		15.00



REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

**AL CIVIL DESIGN**  
 AL Civil Design  
 5 Yew Street  
 GILLIESTON HEIGHTS NSW 2321  
 0466 253 917

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SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL	
DESIGN:	M.M			
DRAWN:	M.M			
CHECKED:	M.M			
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION	CROSS SECTION
APPROVED:	M.M	1:100 (A1)	HORIZ. N/A VERT. N/A	HORIZ. 1:100 VERT. 1:100

PROJECT  
**LOCAL ROAD RENEWAL  
 STAGE 1 & STAGE 2  
 SANDY CREEK ROAD, QUORROBOLONG**

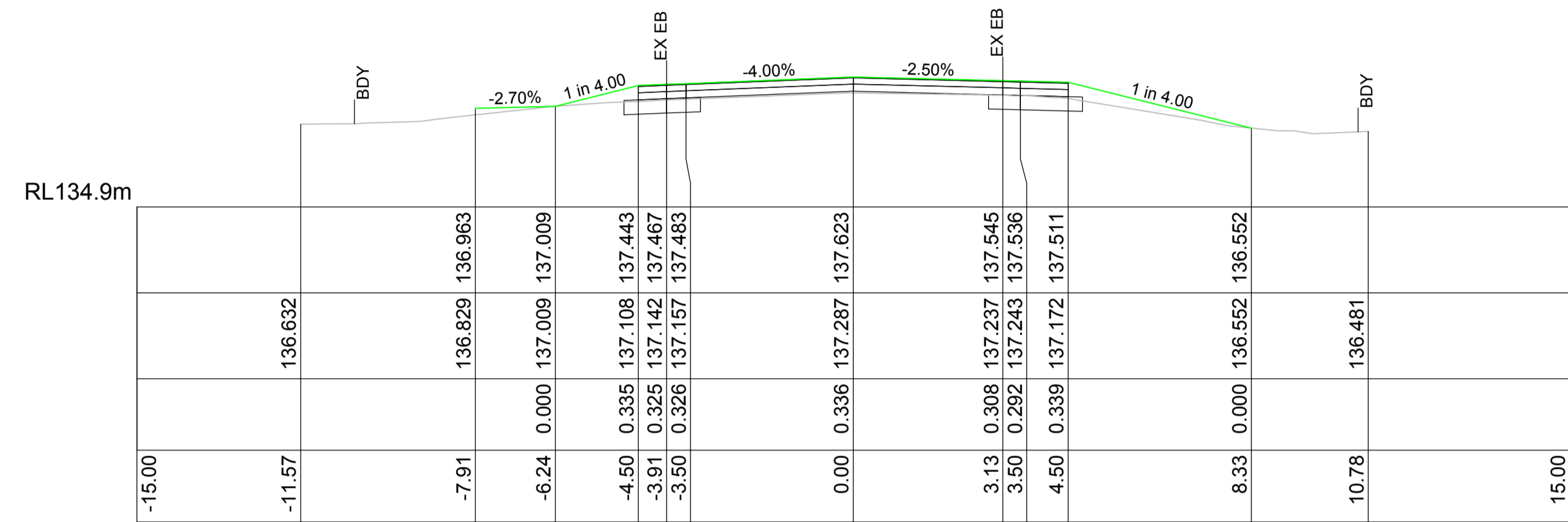
DRAWING TITLE  
**CROSS SECTIONS SHEET 33 OF 72**

**SHEET 47 OF 116 SHEETS**

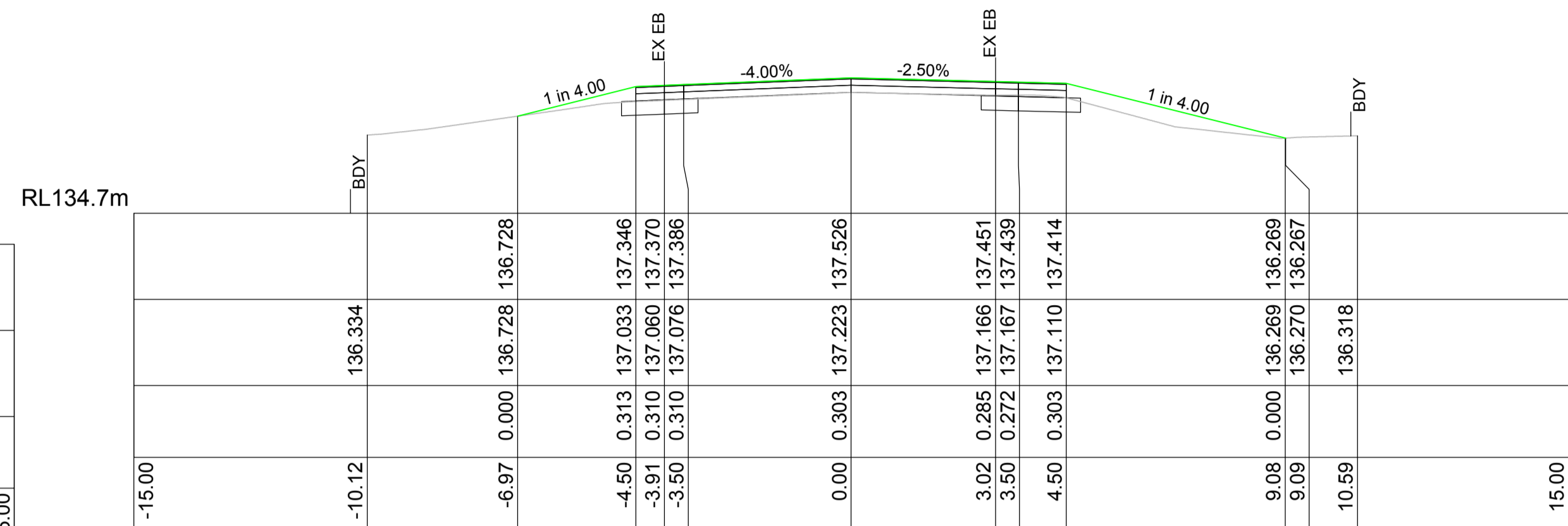
PROJECT No	AL22077	REVISION	1
DWG No	C05-47		

**CONSTRUCTION**

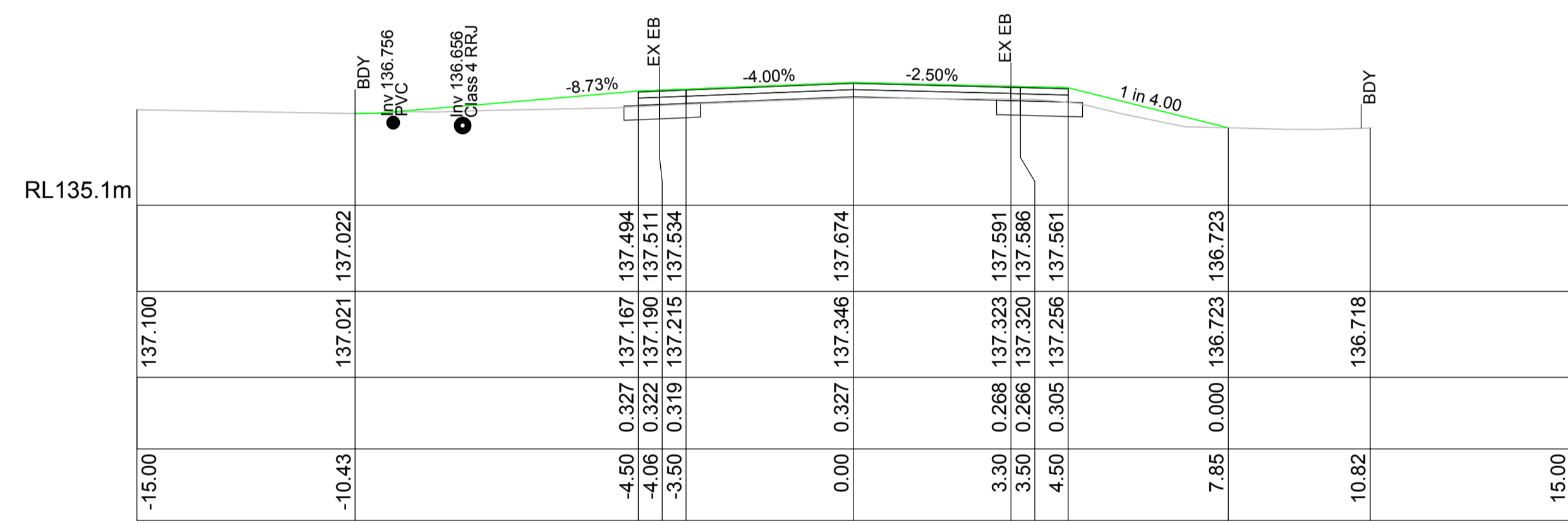
2 1 0 2 4 6  
 1:100 (A1)



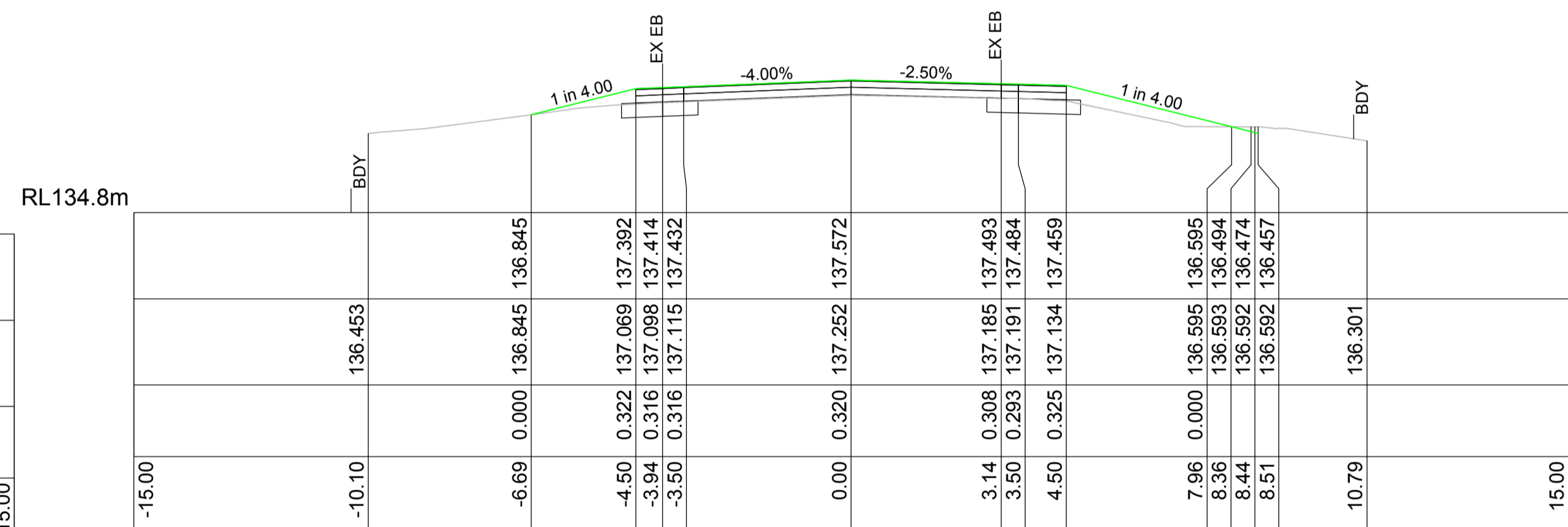
CH 1320.00 m SANDY CREEK ROAD



CH 1340.00 m SANDY CREEK ROAD



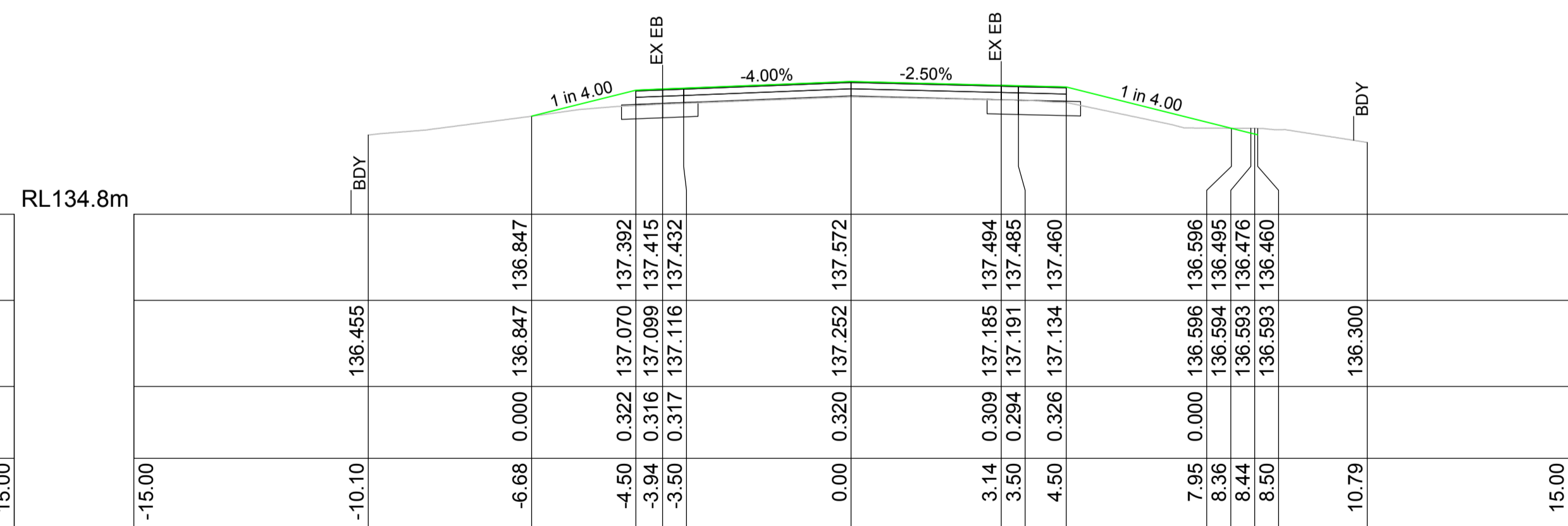
CH 1310.00 m SANDY CREEK ROAD



CH 1330.13 m SANDY CREEK ROAD

RL 135.4m		BDY	EX EB	EX EB	BDY											
DESIGN		137.171	137.095	137.109	137.054											
EXISTING		137.171	137.095	137.109	137.054											
DIFFERENCE																
OFFSET	-15.00	-10.35	-8.43	-6.46	-4.50	-3.95	-3.50	0.00	3.10	3.38	3.50	4.50	6.81	6.95	10.77	15.00

CH 1300.08 m SANDY CREEK ROAD



CH 1330.00 m SANDY CREEK ROAD

REV	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
1	ISSUE FOR CONSTRUCTION	M.M	21.08.23
0	PRELIMINARY ISSUE	M.M	11.08.23
A	REVISION DETAILS	ISSUED BY	DATE

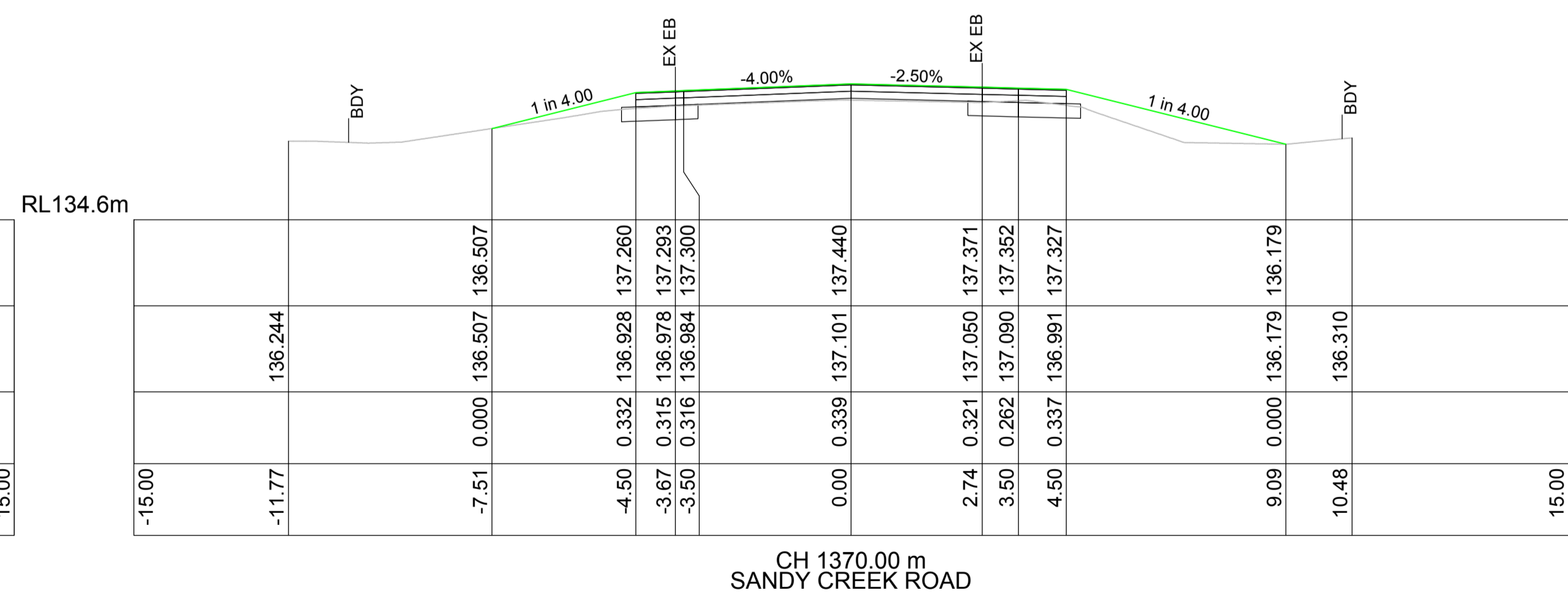
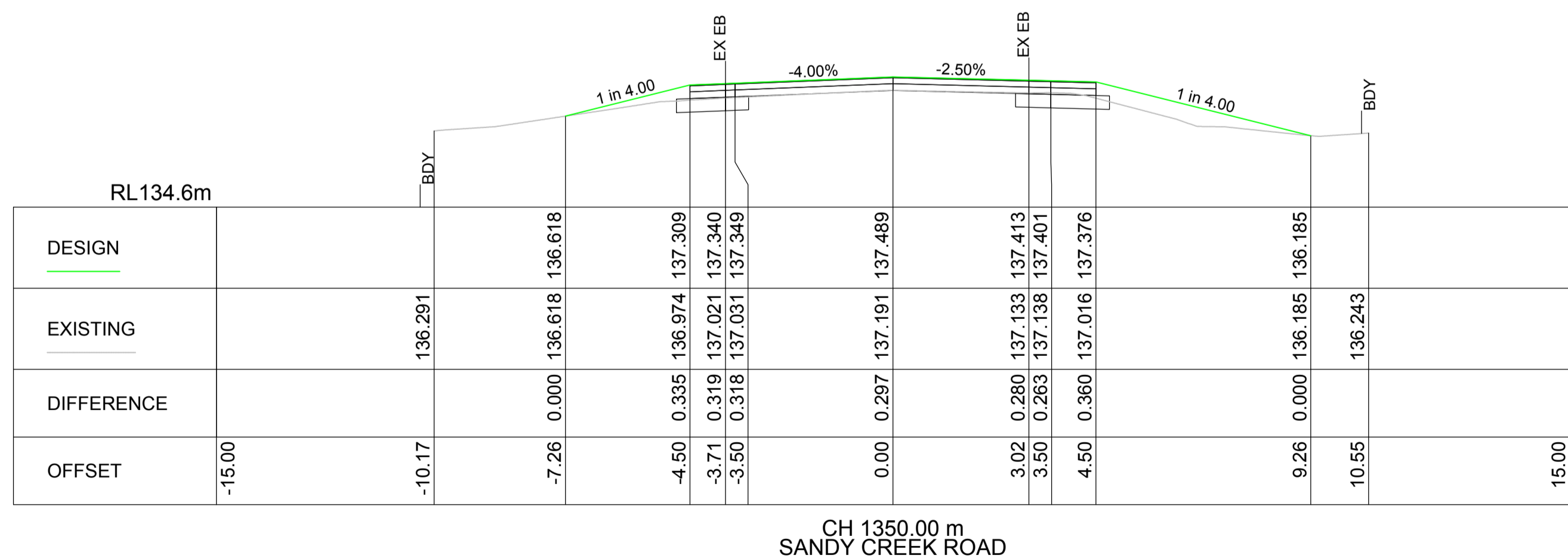
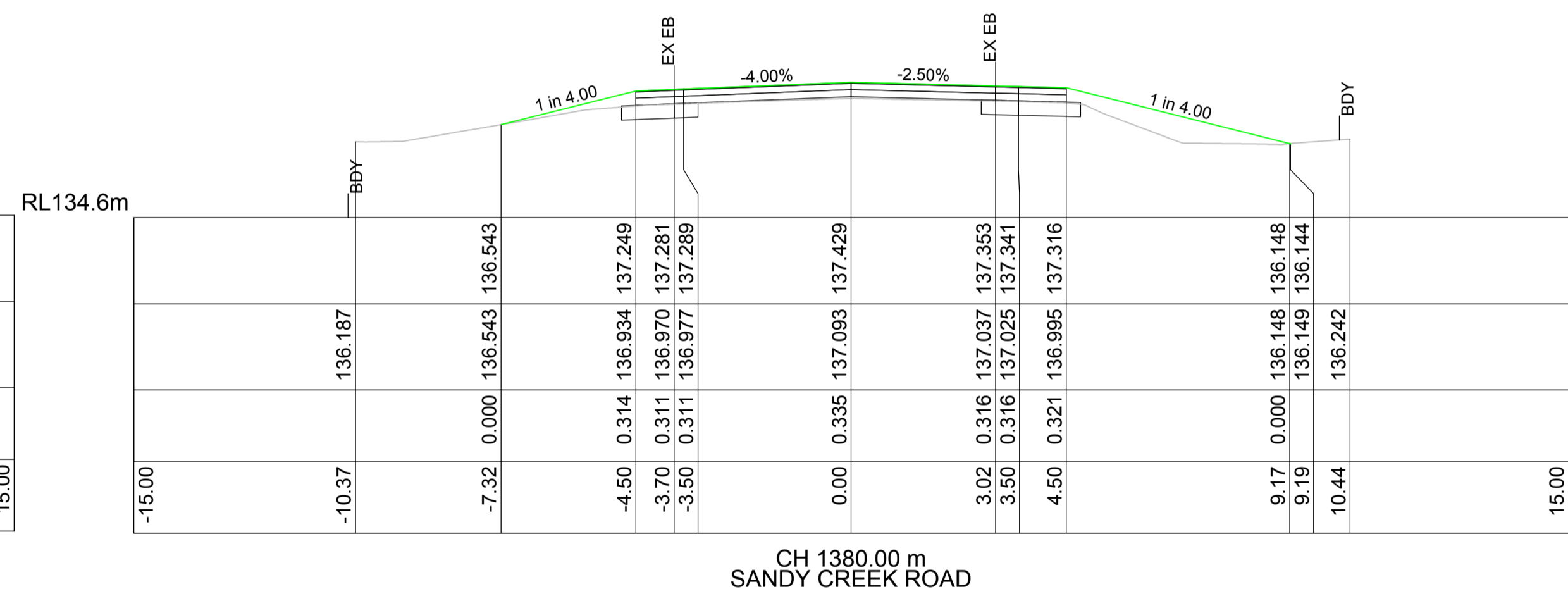
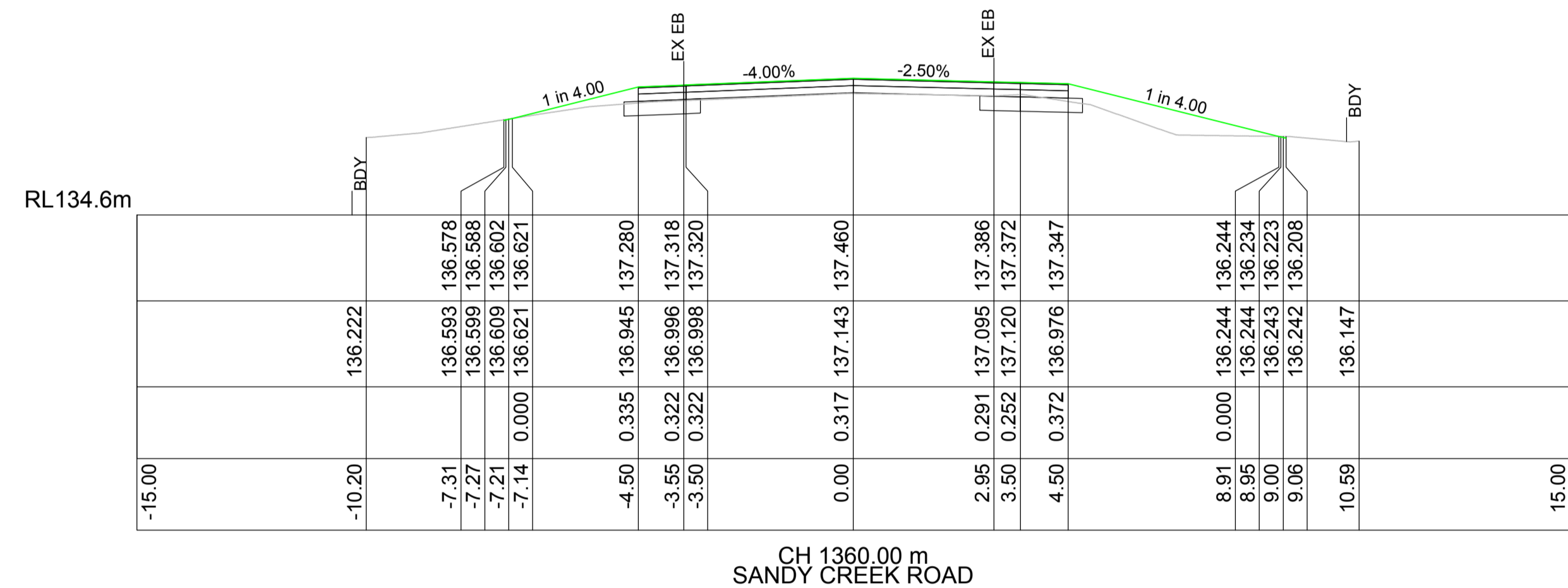
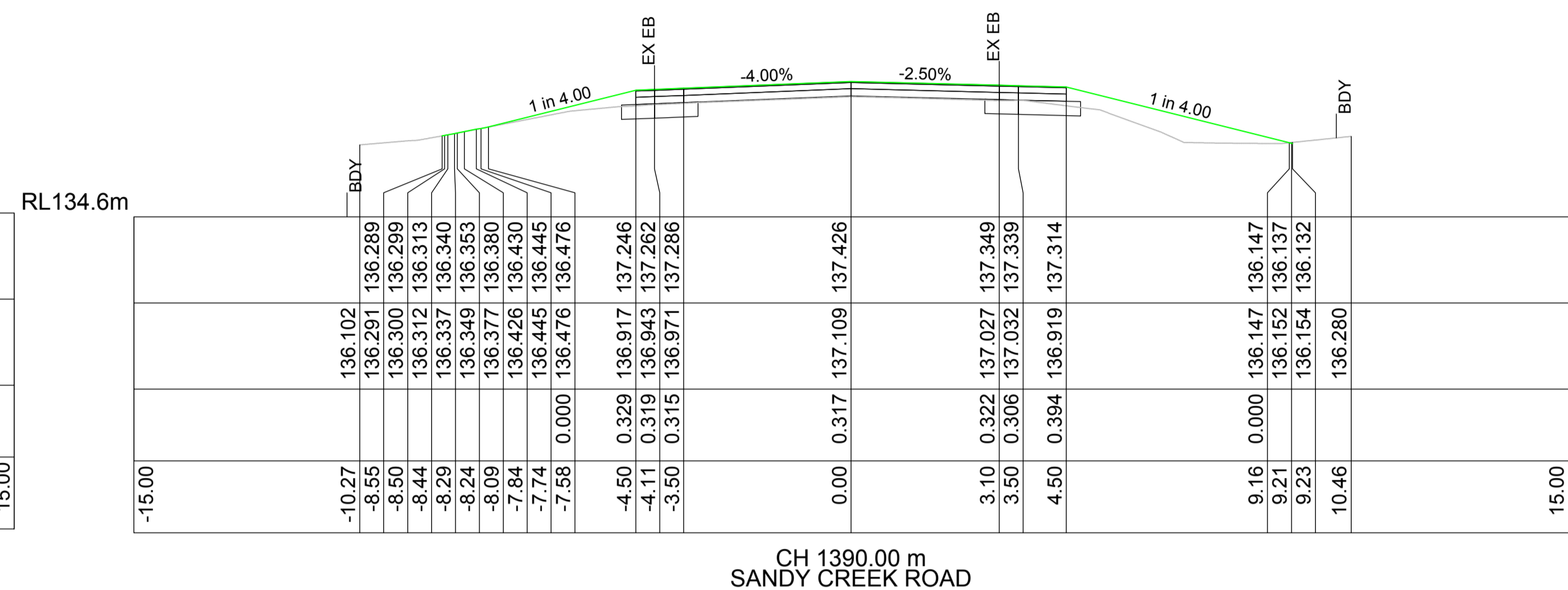
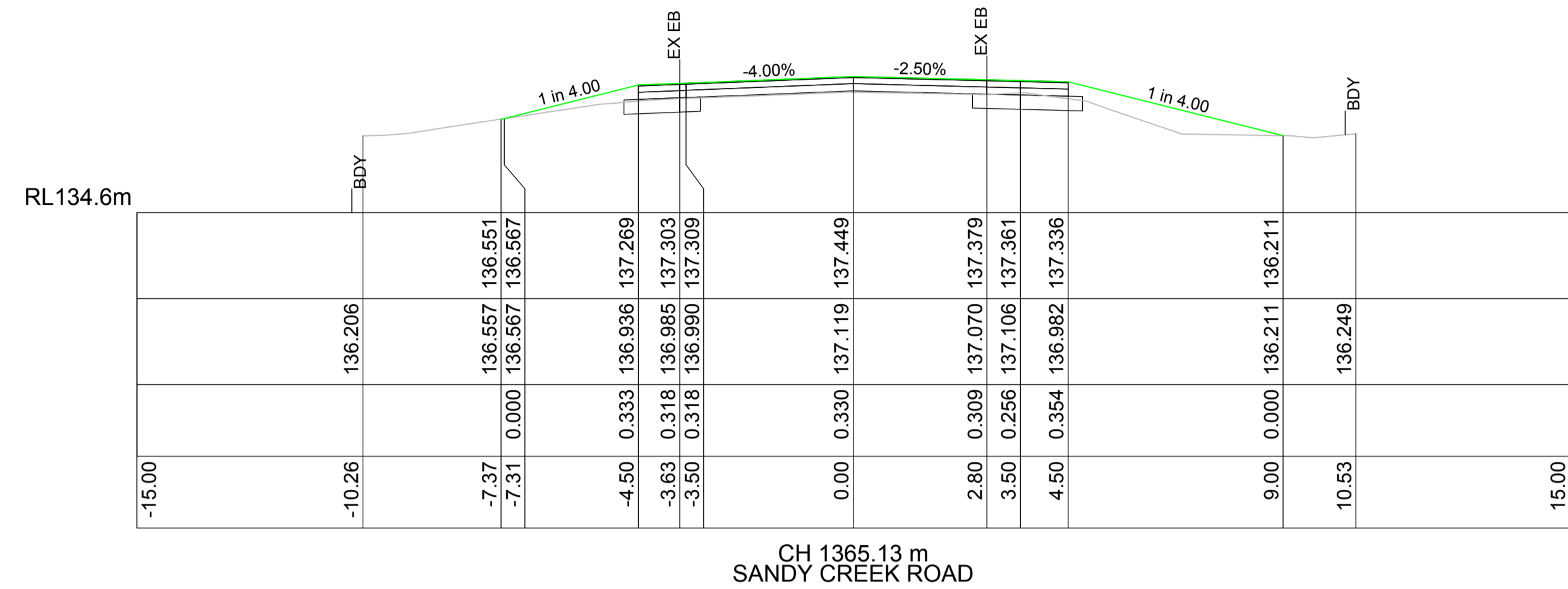
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SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M	PROJECT:	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWN:	M.M	DRAWING TITLE:	CROSS SECTIONS SHEET 34 OF 72
CHECKED:	M.M	SHEET:	48 OF 116 SHEETS
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION CROSS SECTION
APPROVED:	M.M	1:100 (A1)	HORIZ. N/A HORIZ. 1:100 VERT. N/A VERT. 1:100

PROJECT No	AL22077	REVISION	1
DWG No	C05-48		
<b>CONSTRUCTION</b>			
2 1 0 2 4 6 1:100 (A1)			





	DESIGN	EXISTING	DIFFERENCE	OFFSET
15.00				15.00
10.55		136.243		10.55
9.26		136.185	0.00	9.26
4.50		137.016	0.360	4.50
3.50		137.138	0.263	3.50
3.02		137.133	0.280	3.02
0.00		137.191	0.297	0.00
-4.50		136.974	0.335	-4.50
-7.26		136.618	0.000	-7.26
-10.17		136.291		-10.17
-15.00				-15.00

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

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SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M		
DRAWN:	M.M		
CHECKED:	M.M		
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION HORIZ. N/A VERT. N/A
APPROVED:	M.M	CROSS SECTION:	HORIZ. 1:100 VERT. 1:100

PROJECT  
**LOCAL ROAD RENEWAL  
STAGE 1 & STAGE 2  
SANDY CREEK ROAD, QUORROBOLONG**

DRAWING TITLE  
**CROSS SECTIONS SHEET 35 OF 72**

**SHEET 49 OF 116 SHEETS**

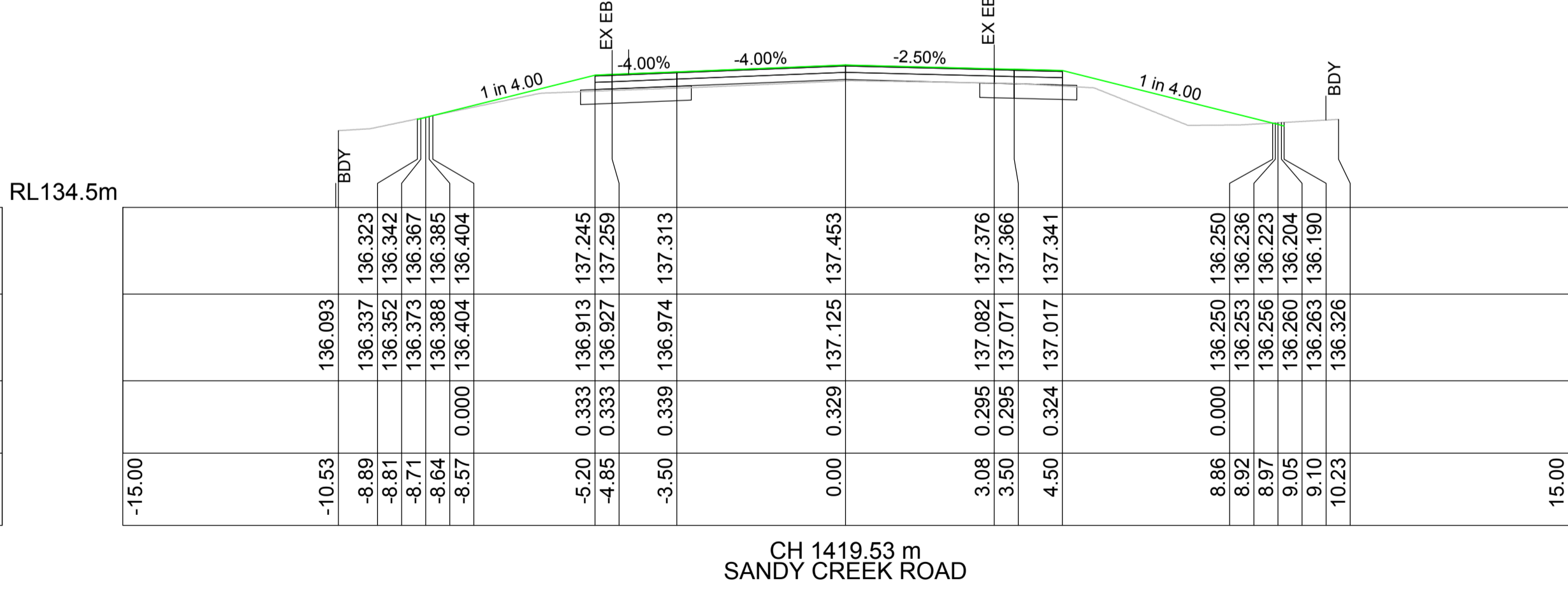
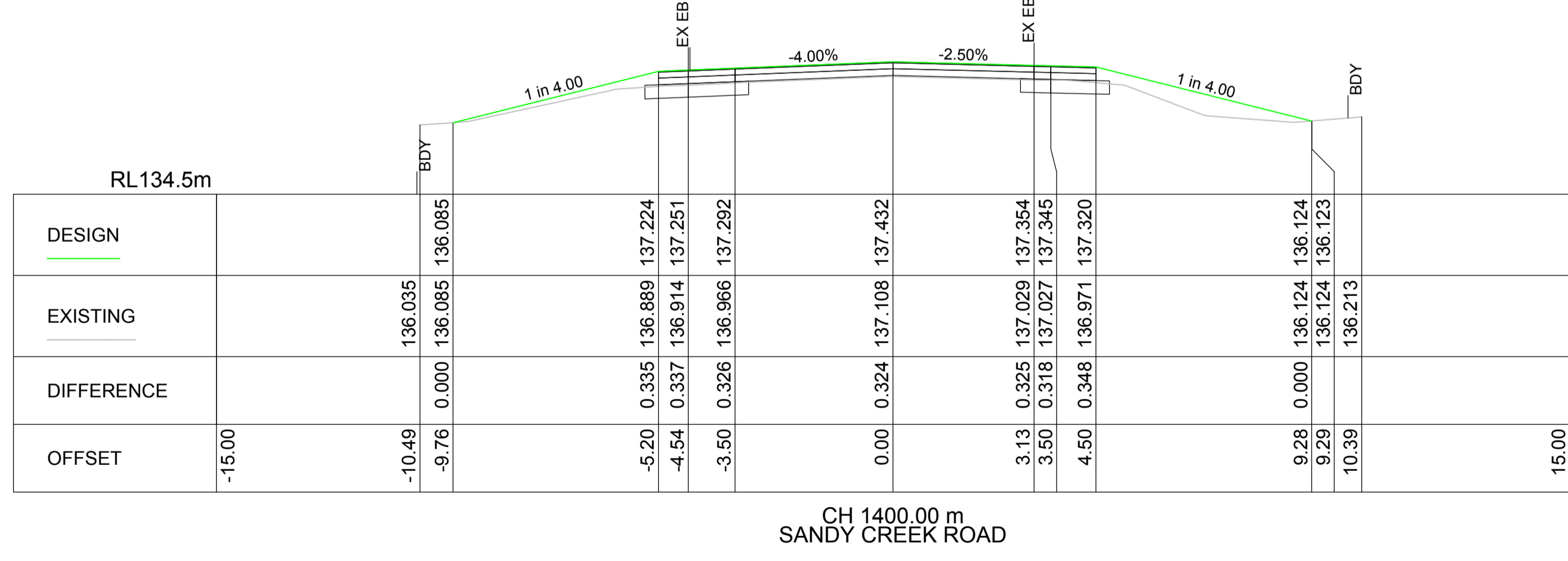
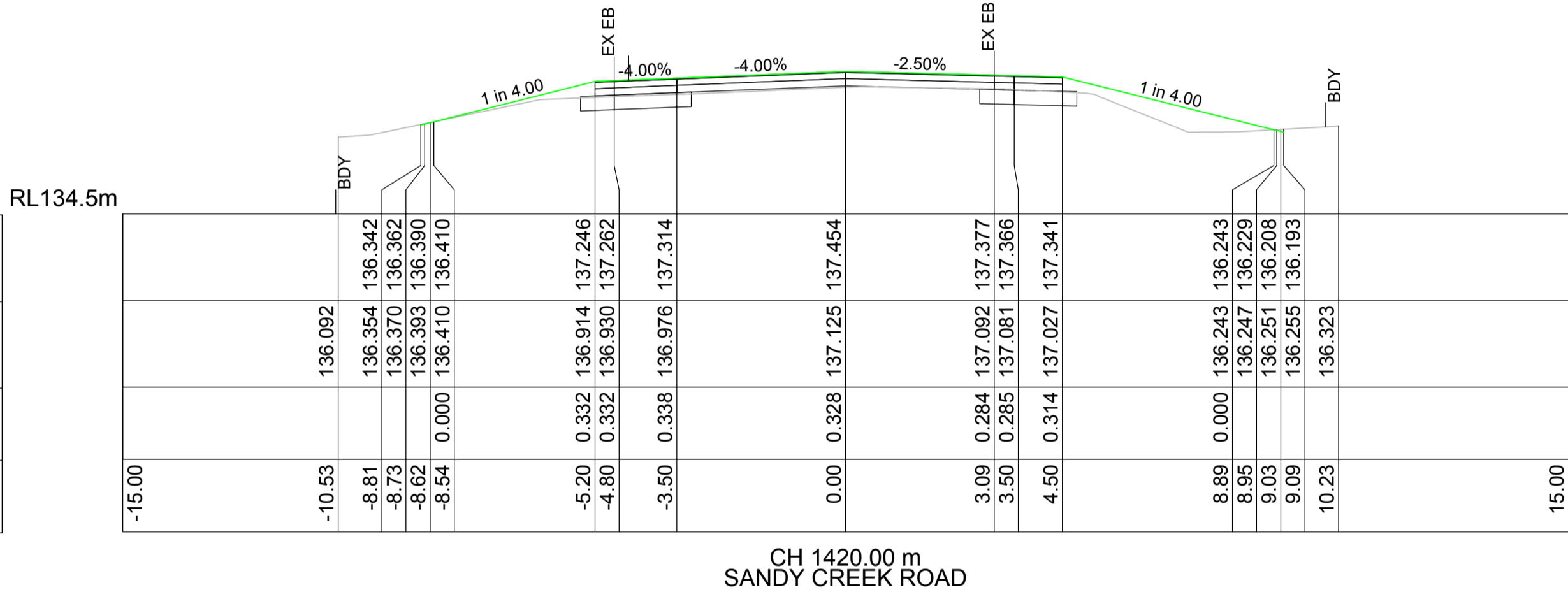
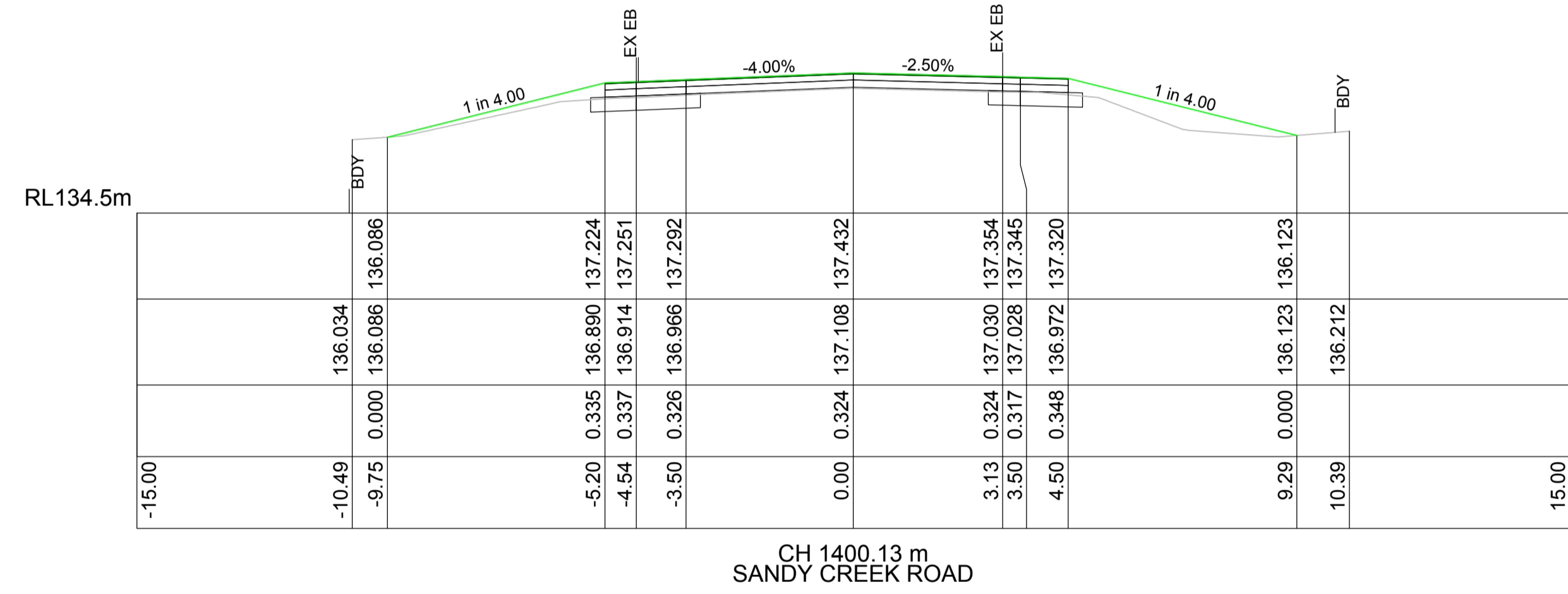
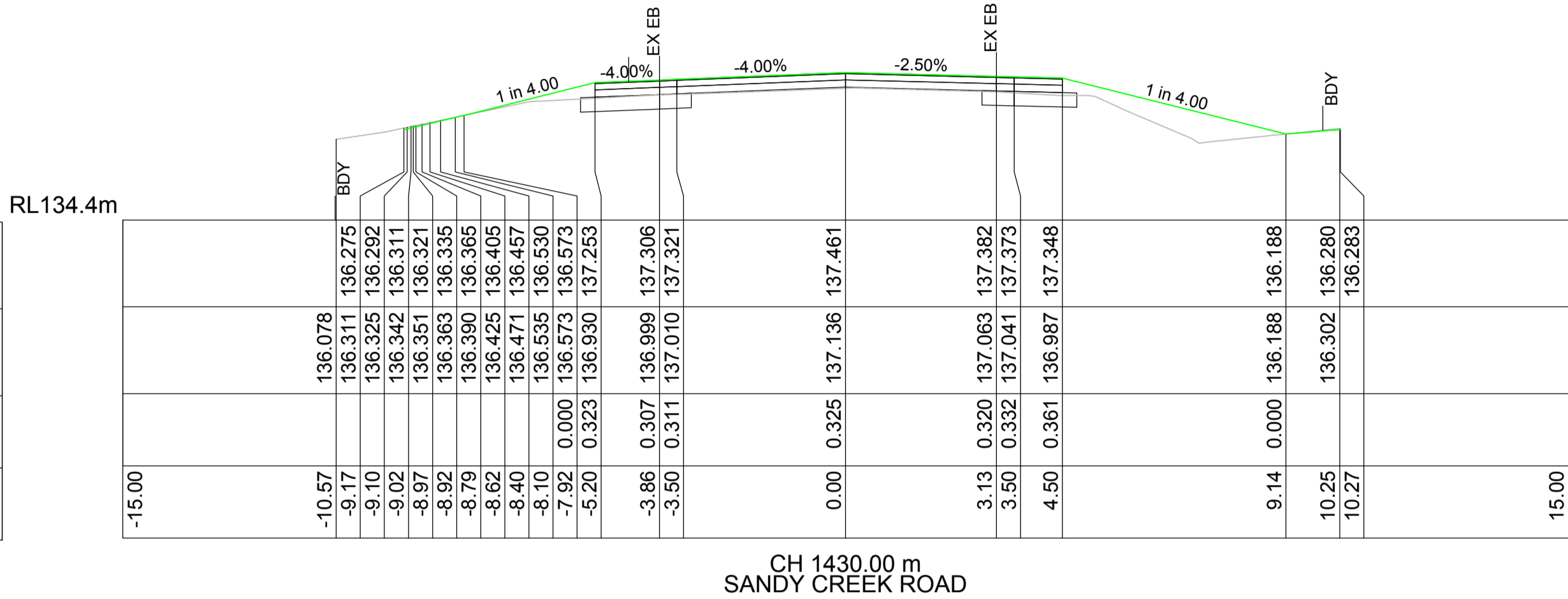
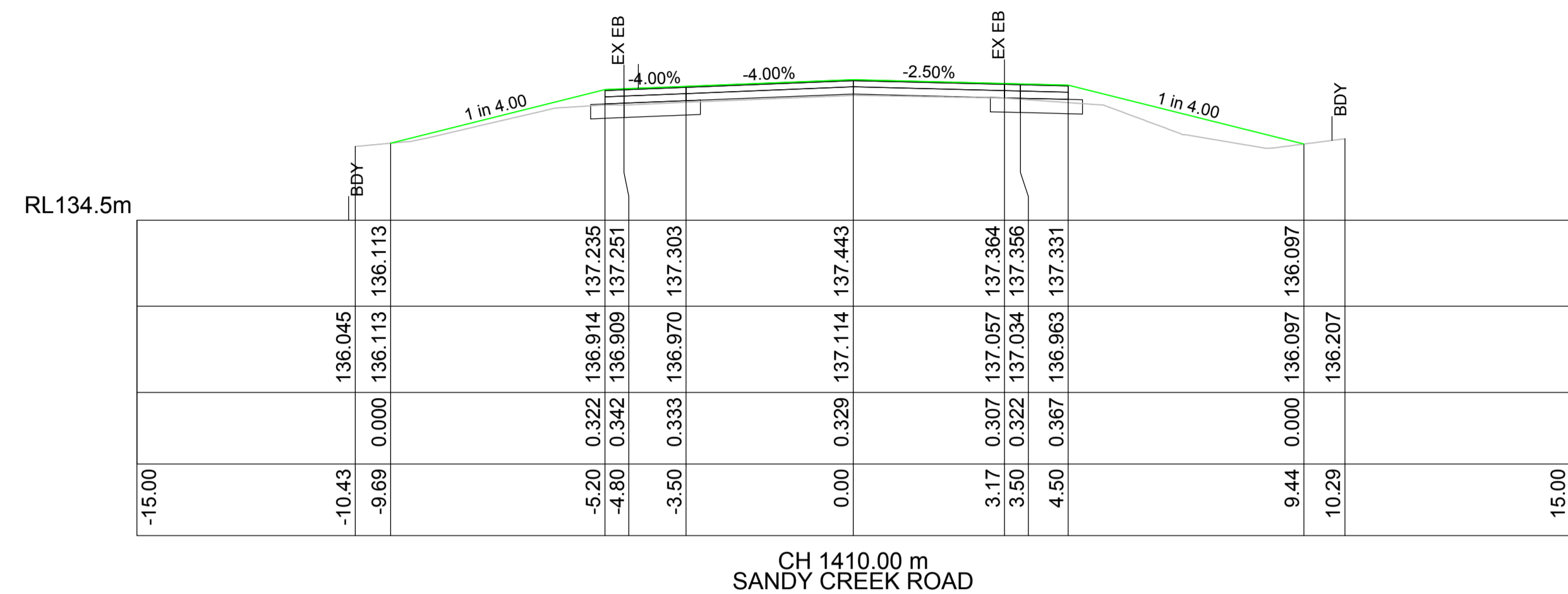
PROJECT No  
**AL22077**

DWG No  
**C05-49**

**CONSTRUCTION**

2 1 0 2 4 6  
1:100 (A1)

REVISION  
**1**



1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE

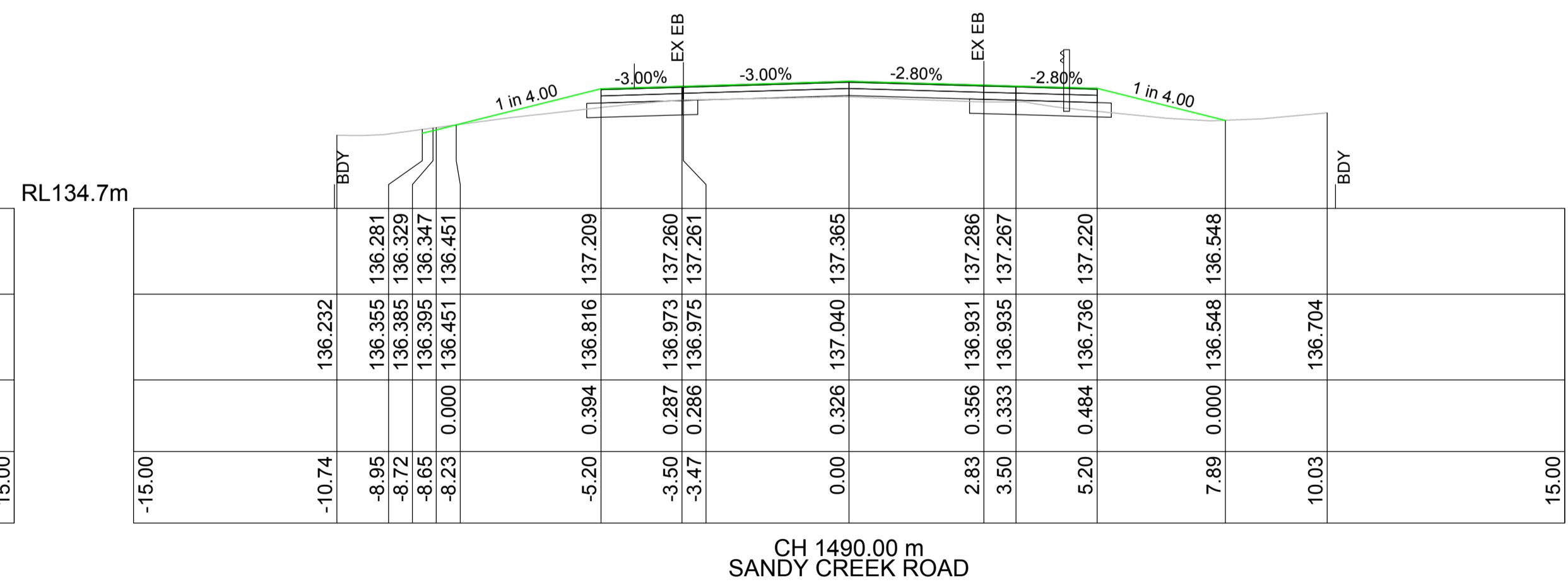
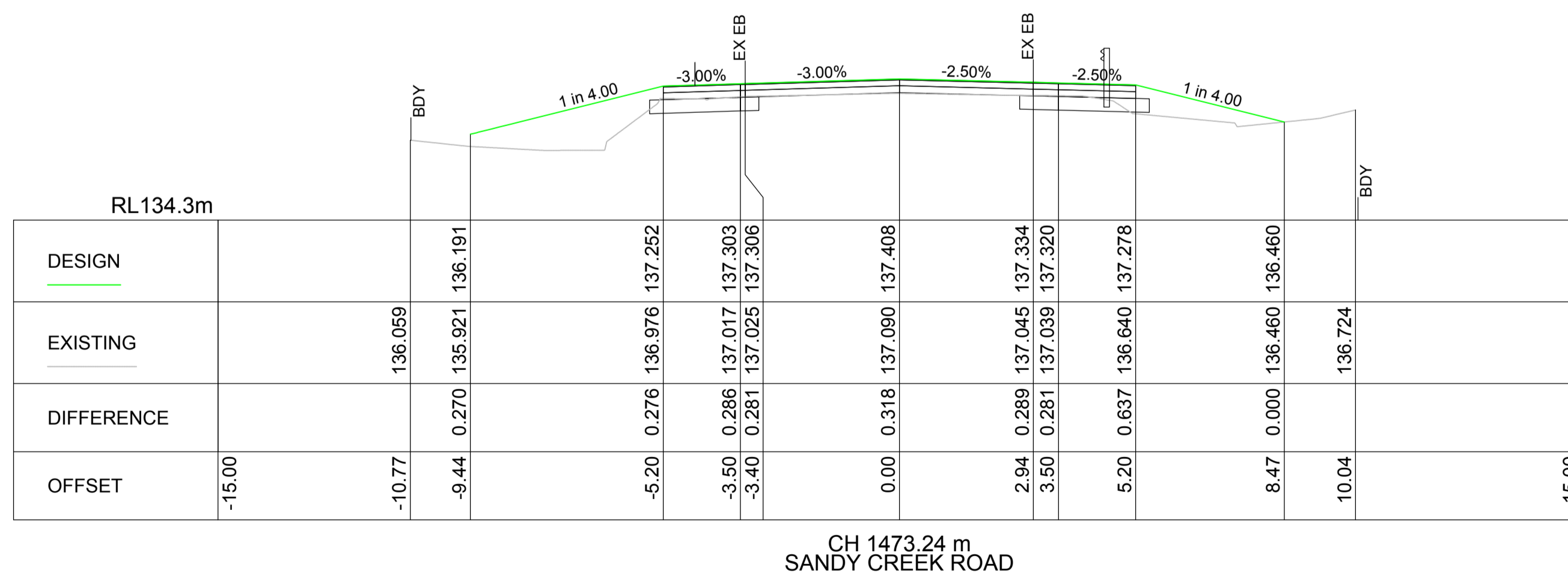
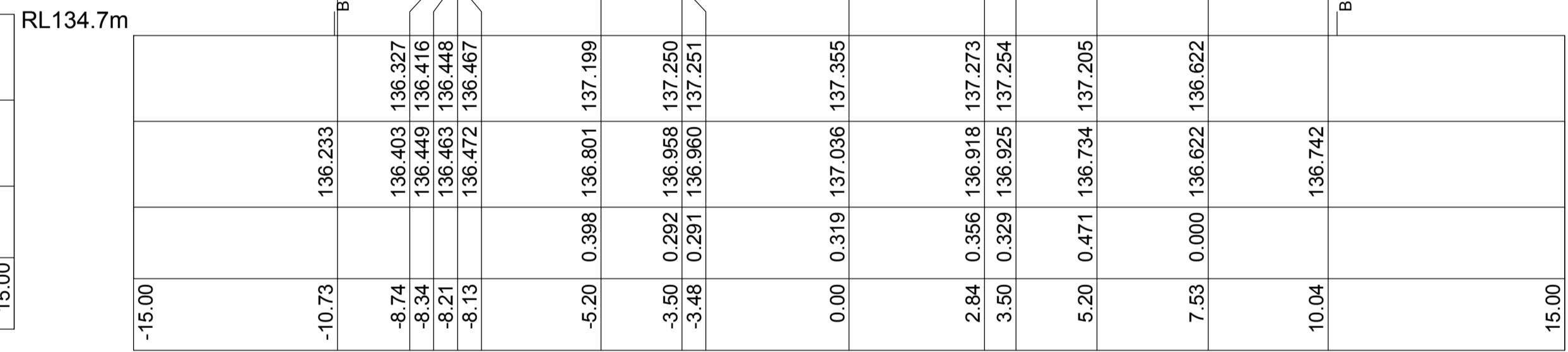
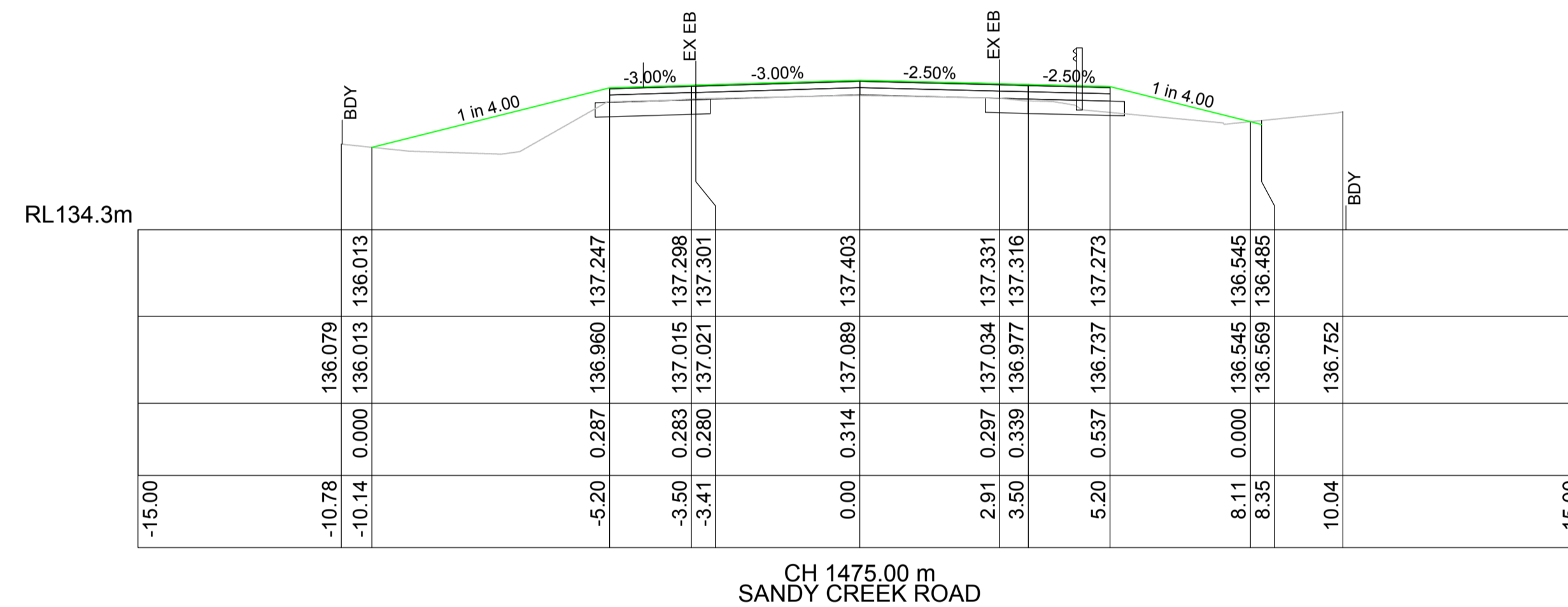
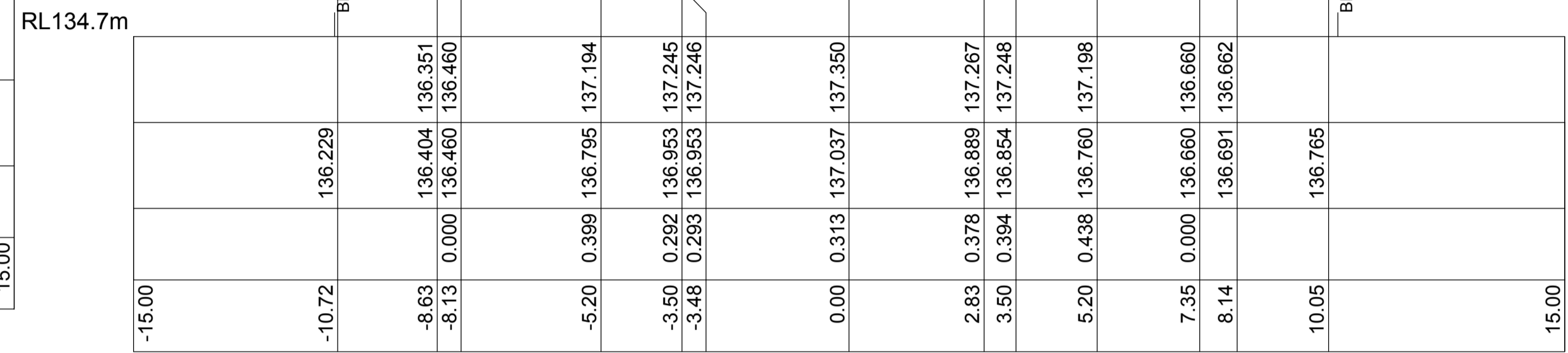
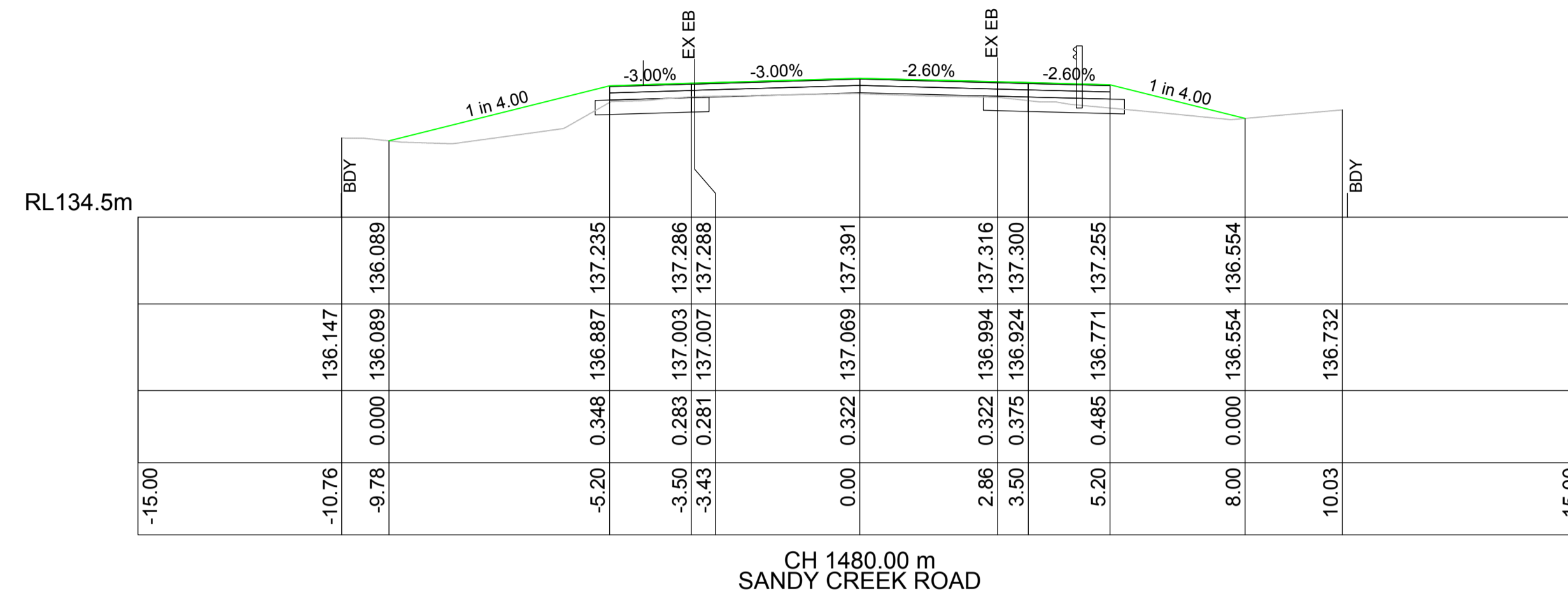


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SURVEY:	DELFS LASCELLES	CLIENT	CESSNOCK CITY COUNCIL
DESIGN:	M.M	PROJECT	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWN:	M.M	DRAWING TITLE	CROSS SECTIONS SHEET 36 OF 72
CHECKED:	M.M	SHEET	50 OF 116 SHEETS
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION CROSS SECTION
APPROVED:	M.M	1:100 (A1)	HORIZ. N/A HORIZ. 1:100 VERT. N/A VERT. 1:100

PROJECT No	AL22077	REVISION	1
DWG No	C05-50		
<b>CONSTRUCTION</b>			
2 1 0 2 4 6 1:100 (A1)			





DESIGN	EXISTING	DIFFERENCE	OFFSET
	136.059		-15.00
	136.191	0.270	-10.77
			-9.44
	136.976	0.276	-5.20
	137.017	0.286	-3.50
	137.025	0.281	-3.40
			0.00
	137.045	0.289	2.94
	137.039	0.281	3.50
	136.640	0.637	5.20
	136.460	0.000	8.47
	136.724		10.04
			15.00

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

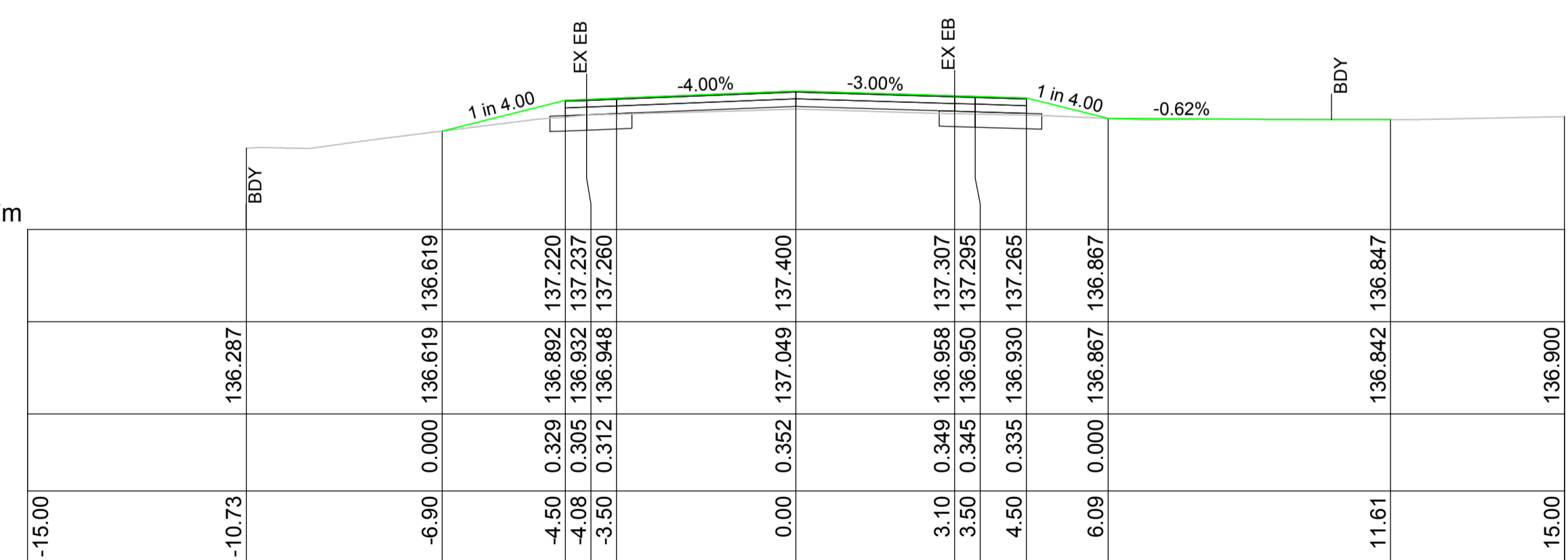
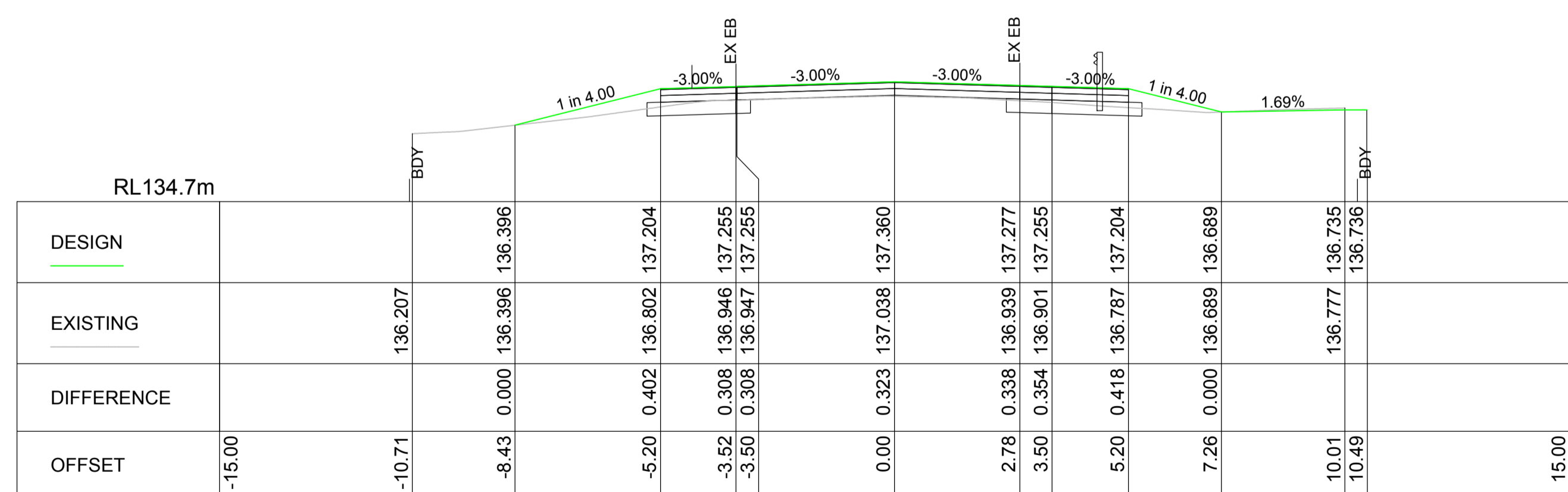
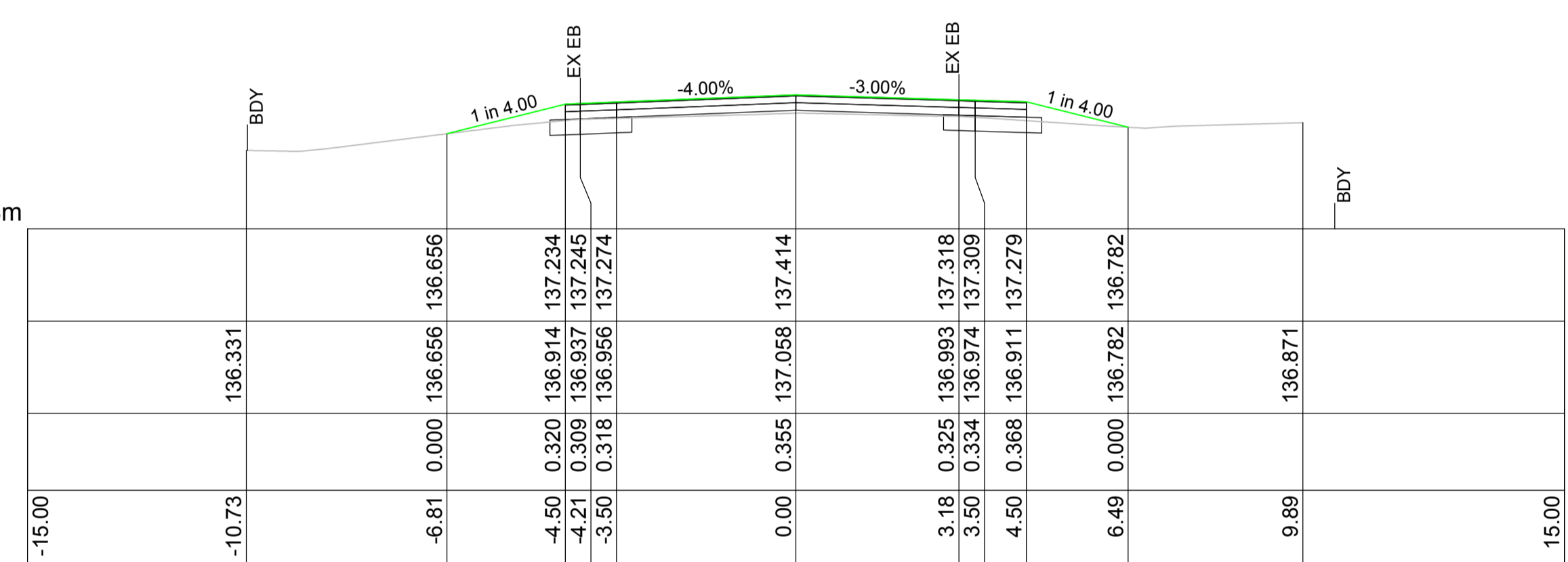
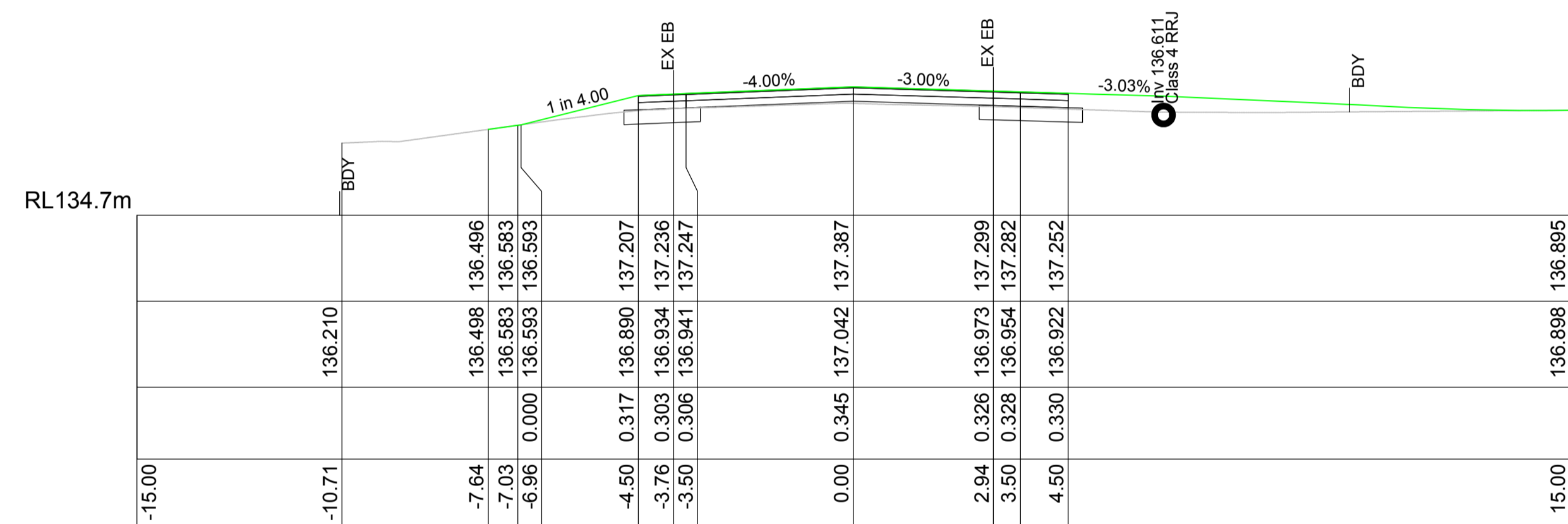
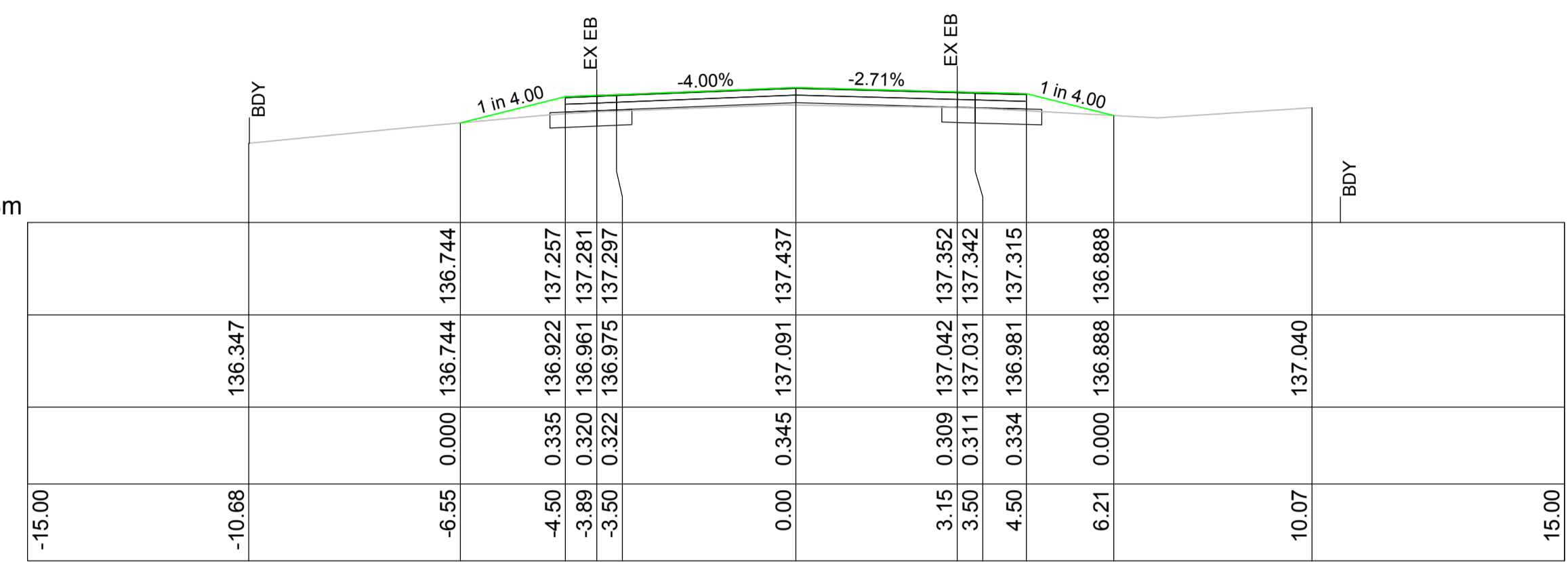
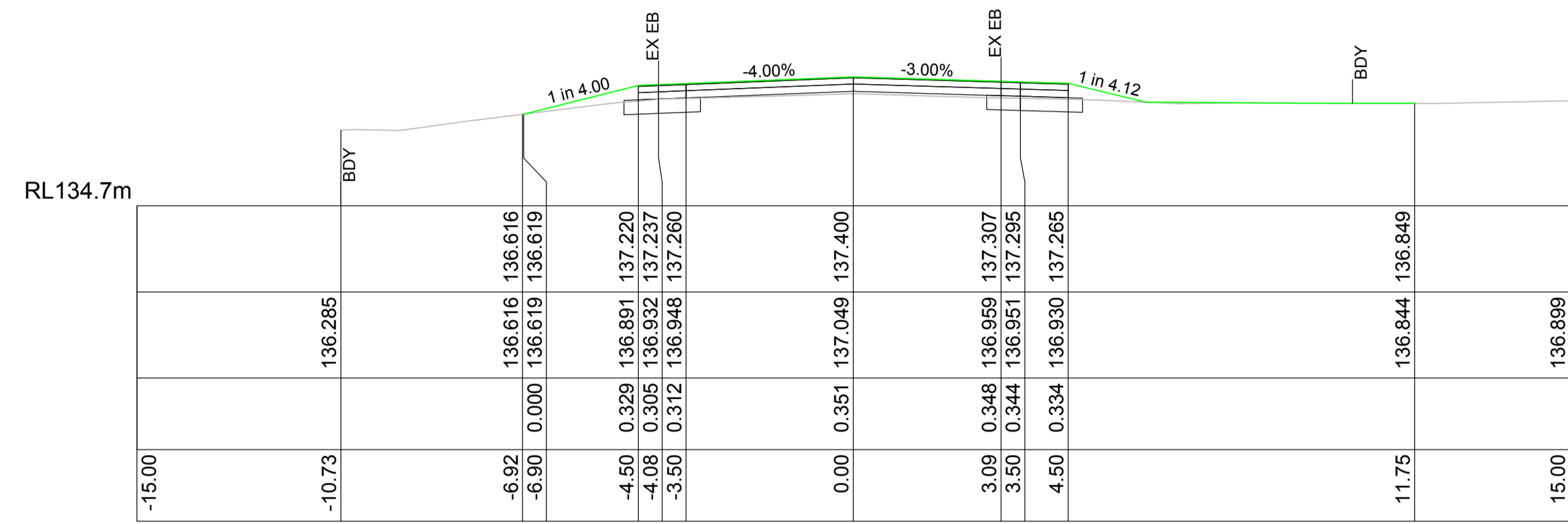
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SURVEY: DELFS LASCELLES	CLIENT: CESSNOCK CITY COUNCIL
DESIGN: M.M	
DRAWN: M.M	
CHECKED: M.M	
DATE: 11.08.2023	PLAN: LONGITUDINAL SECTION CROSS SECTION
APPROVED: M.M	1:100 (A1) HORIZ. N/A HORIZ. 1:100 VERT. N/A VERT. 1:100

PROJECT: LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG  
 DRAWING TITLE: CROSS SECTIONS SHEET 38 OF 72  
 SHEET 52 OF 116 SHEETS

PROJECT No: AL22077  
 DWG No: C05-52  
 REVISION: 1  
**CONSTRUCTION**  
 2 1 0 2 4 6  
 1:100 (A1)



	-15.00	-10.71	-8.43	-5.20	-3.52	-3.50	0.00	2.78	3.50	5.20	7.26	10.01	10.49	15.00
DESIGN														
EXISTING		136.207	136.396	136.802	137.255	137.255	137.038	137.277	136.901	136.787	136.689	136.735	136.736	
DIFFERENCE			0.000	0.402	0.308	0.308	0.323	0.338	0.354	0.418	0.000	0.352	0.000	
OFFSET	-15.00	-10.71	-8.43	-5.20	-3.52	-3.50	0.00	2.78	3.50	5.20	7.26	10.01	10.49	15.00



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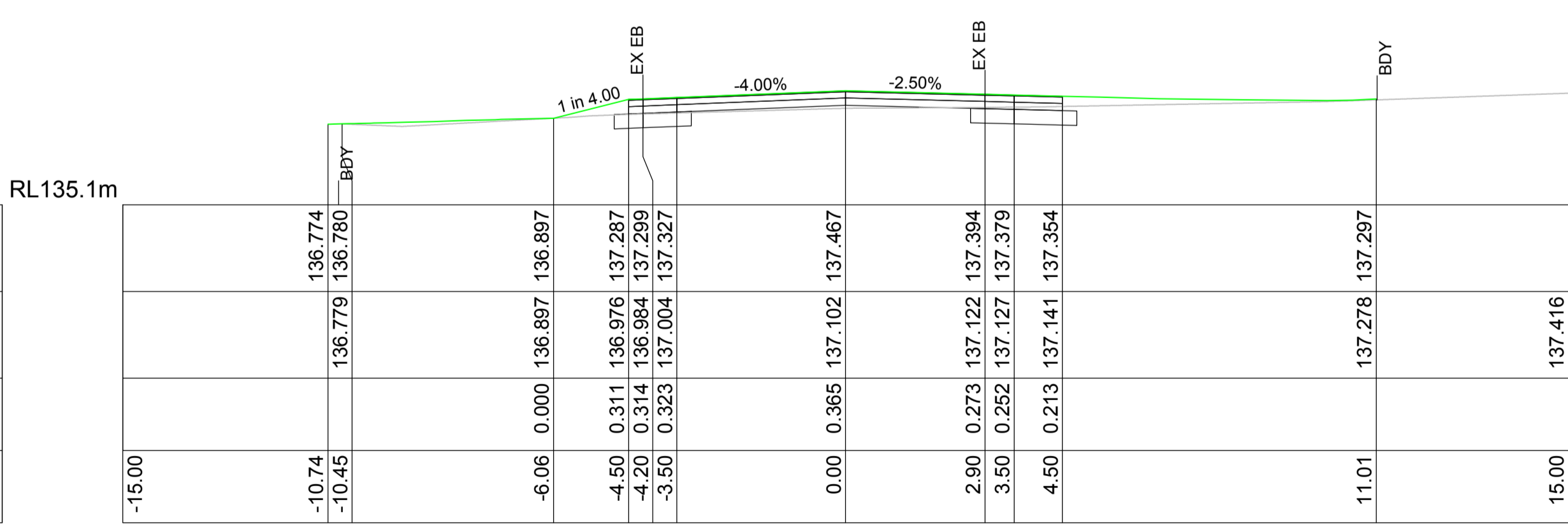
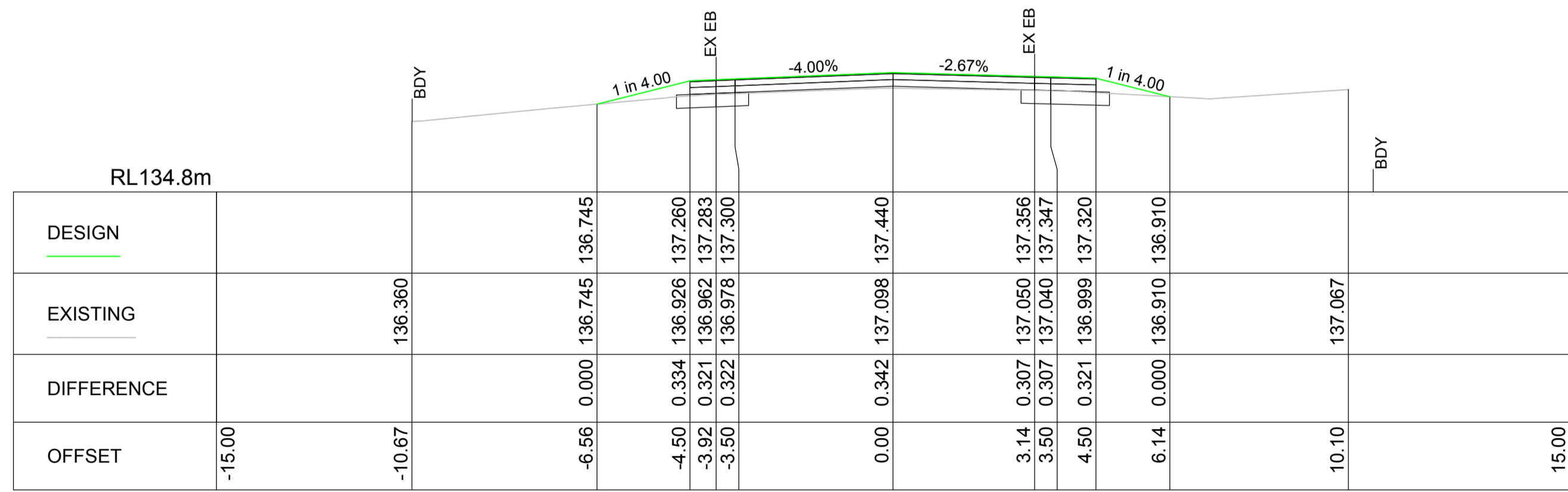
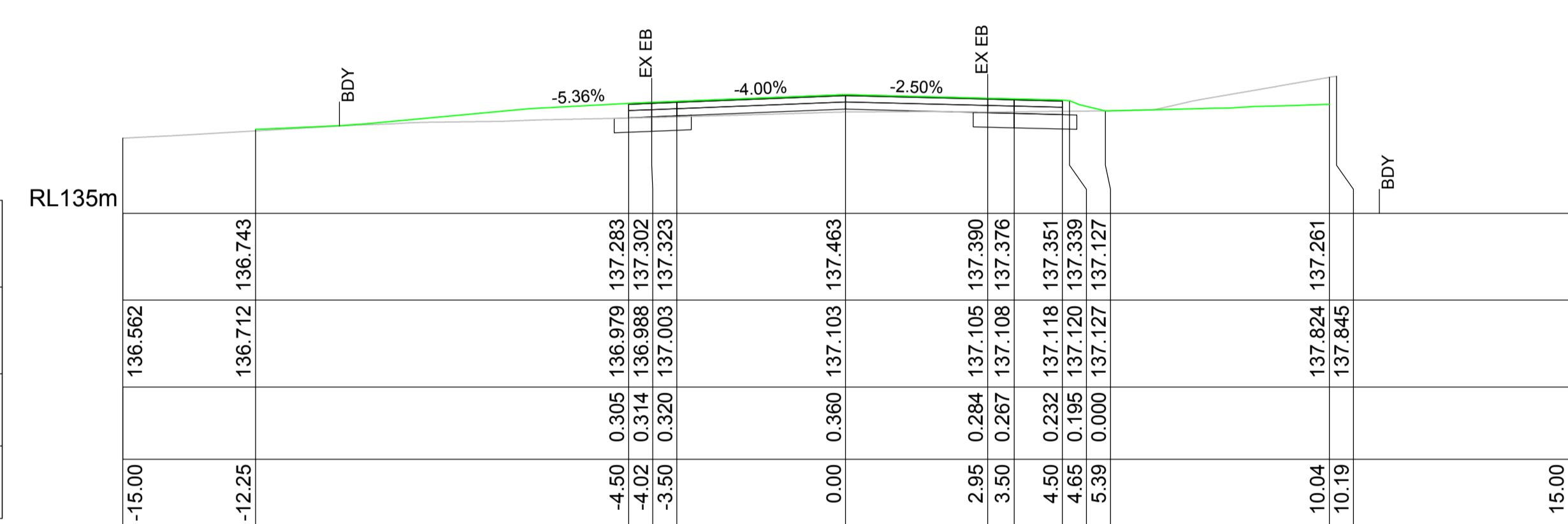
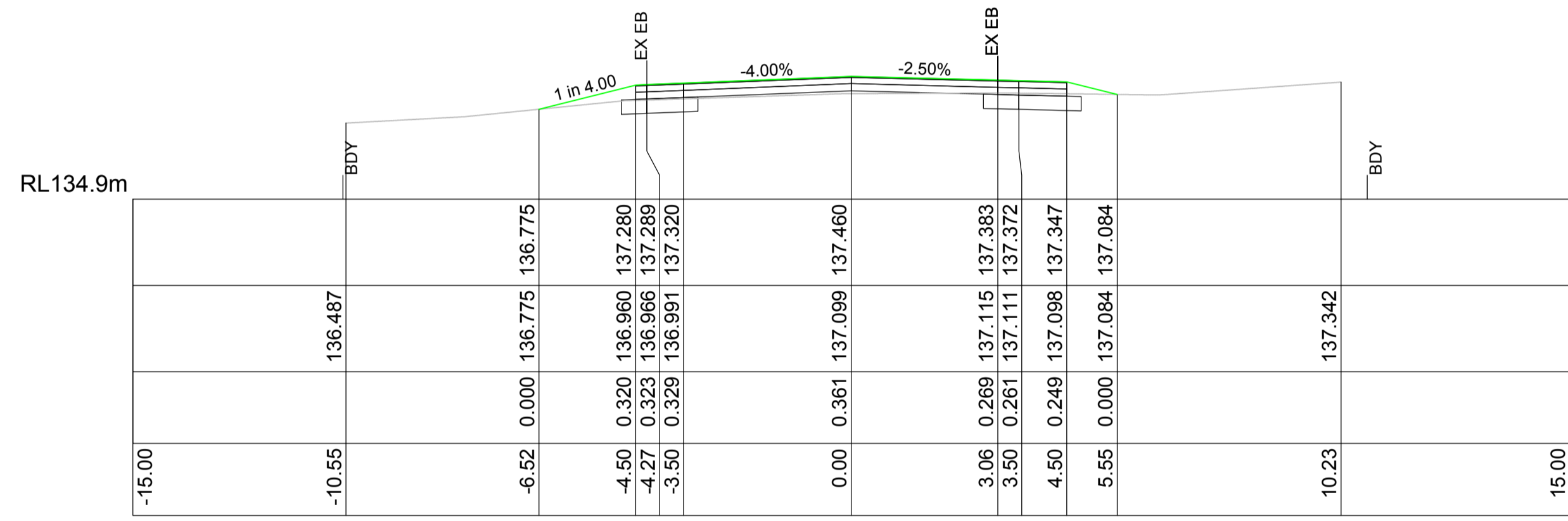
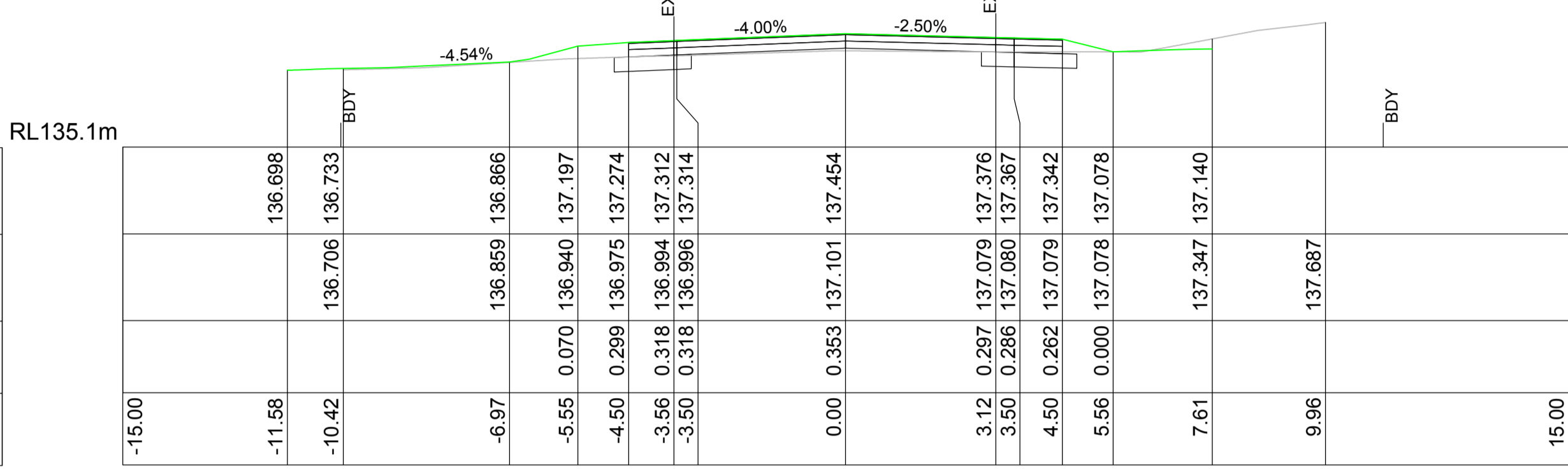
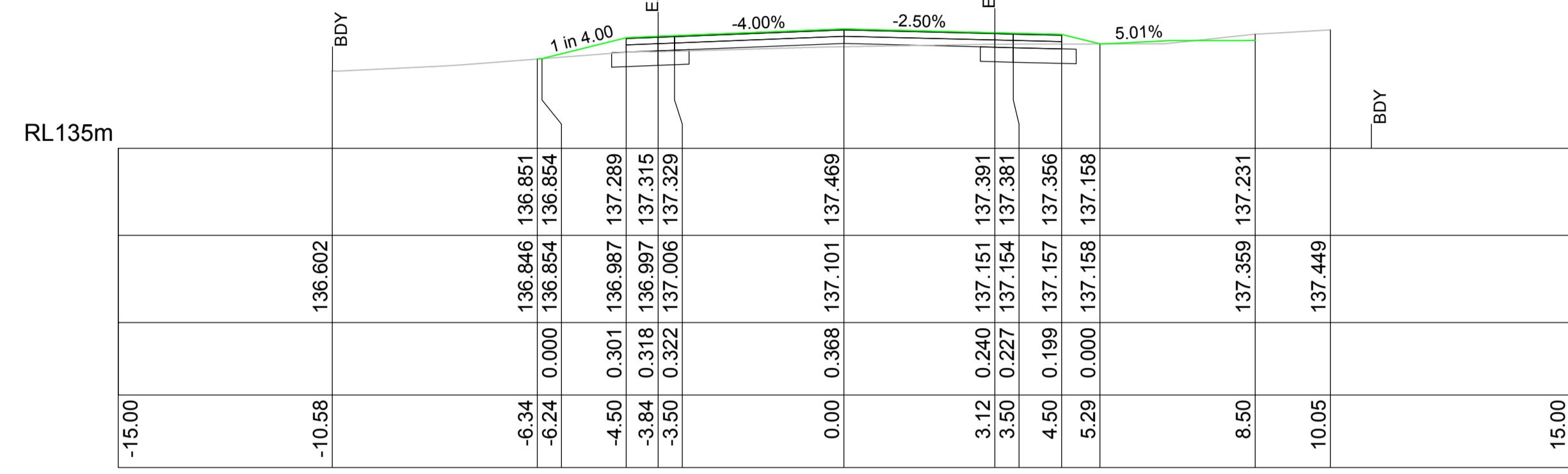
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SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M		
DRAWN:	M.M		
CHECKED:	M.M		
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION HORIZ. N/A VERT. N/A
APPROVED:	M.M	CROSS SECTION:	HORIZ. 1:100 VERT. 1:100

PROJECT:	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWING TITLE:	CROSS SECTIONS SHEET 39 OF 72
SHEET 53 OF 116 SHEETS	

PROJECT No:	AL22077	REVISION:	1
DWG No:	C05-53		
<b>CONSTRUCTION</b>			
2 1 0 2 4 6 1:100 (A1)			

1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE



	DESIGN	EXISTING	DIFFERENCE	OFFSET
-15.00				-15.00
-10.67		136.360		-10.67
-6.56	0.000	136.745	0.000	-6.56
-4.50	0.334	136.926	0.334	-4.50
-3.92	0.321	136.962	0.321	-3.92
-3.50	0.322	136.978	0.322	-3.50
0.00	0.342	137.098	0.342	0.00
3.14	0.307	137.050	-0.307	3.14
3.50	0.307	137.040	-0.307	3.50
4.50	0.321	136.999	-0.321	4.50
6.14	0.000	136.910	-0.000	6.14
10.10		137.067		10.10
15.00				15.00

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

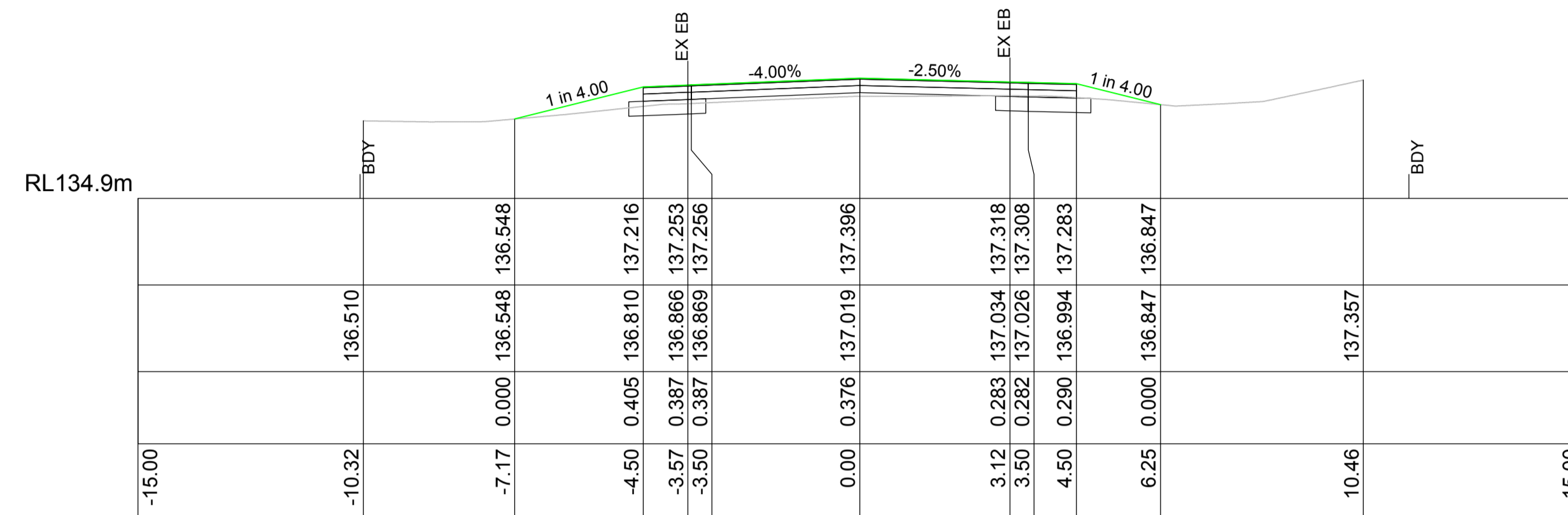
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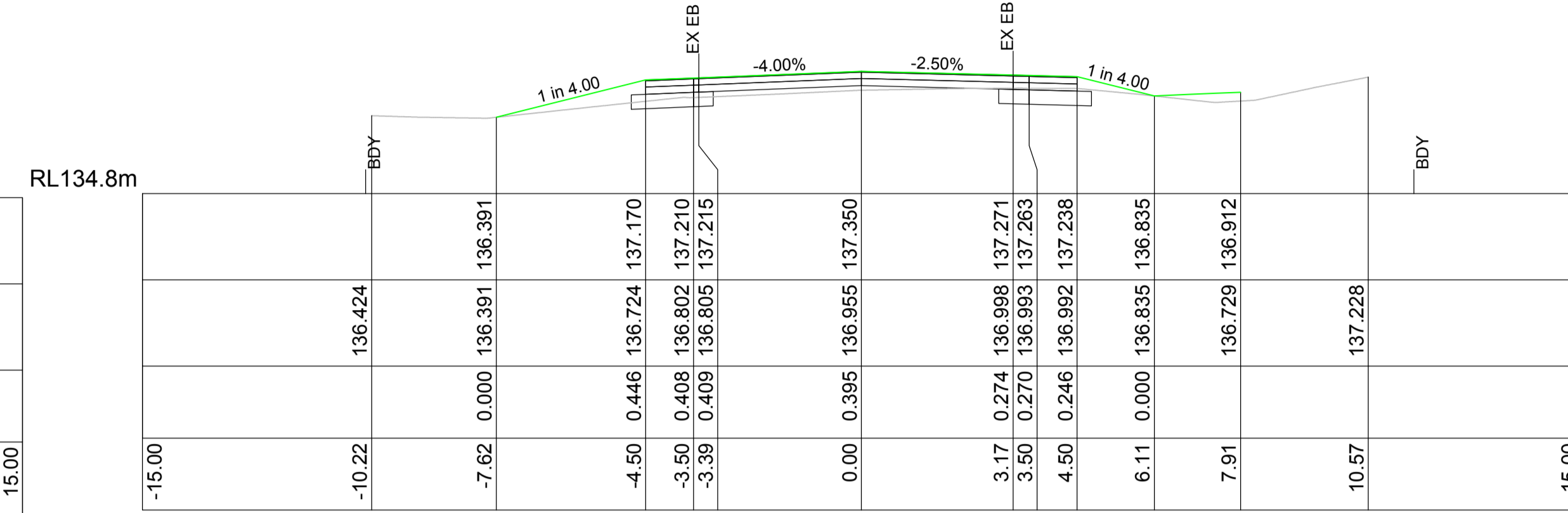
SURVEY: DELFS LASCELLES	CLIENT: CESSNOCK CITY COUNCIL
DESIGN: M.M	
DRAWN: M.M	
CHECKED: M.M	
DATE: 11.08.2023	PLAN: LONGITUDINAL SECTION CROSS SECTION
APPROVED: M.M	1:100 (A1) HORIZ. N/A HORIZ. 1:100 VERT. N/A VERT. 1:100

PROJECT: LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG  
 DRAWING TITLE: CROSS SECTIONS SHEET 40 OF 72  
**SHEET 54 OF 116 SHEETS**

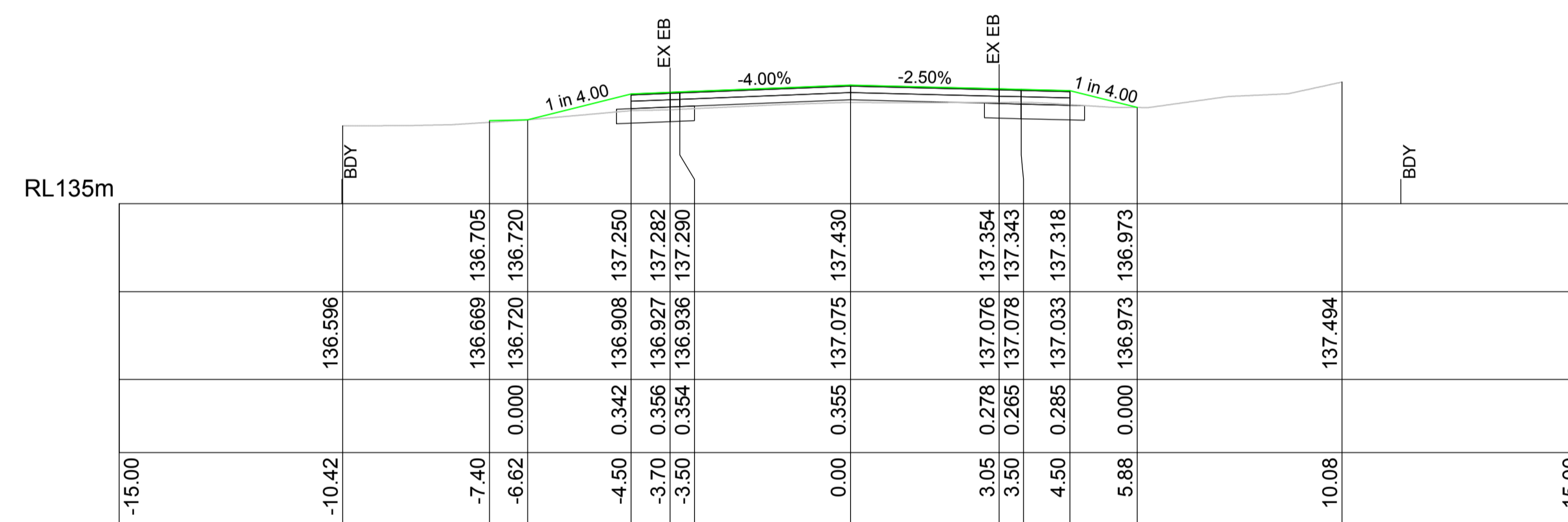
PROJECT No: AL22077  
 DWG No: C05-54  
 REVISION: 1  
**CONSTRUCTION**  
 2 1 0 2 4 6  
 1:100 (A1)



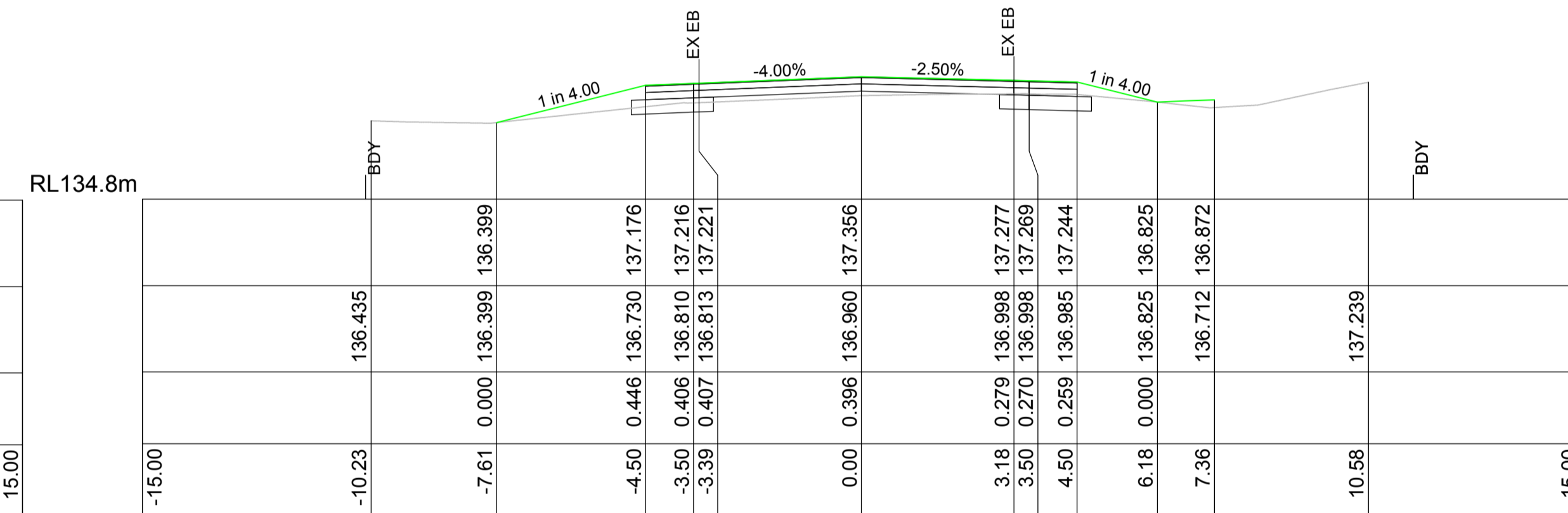
CH 1590.00 m  
SANDY CREEK ROAD



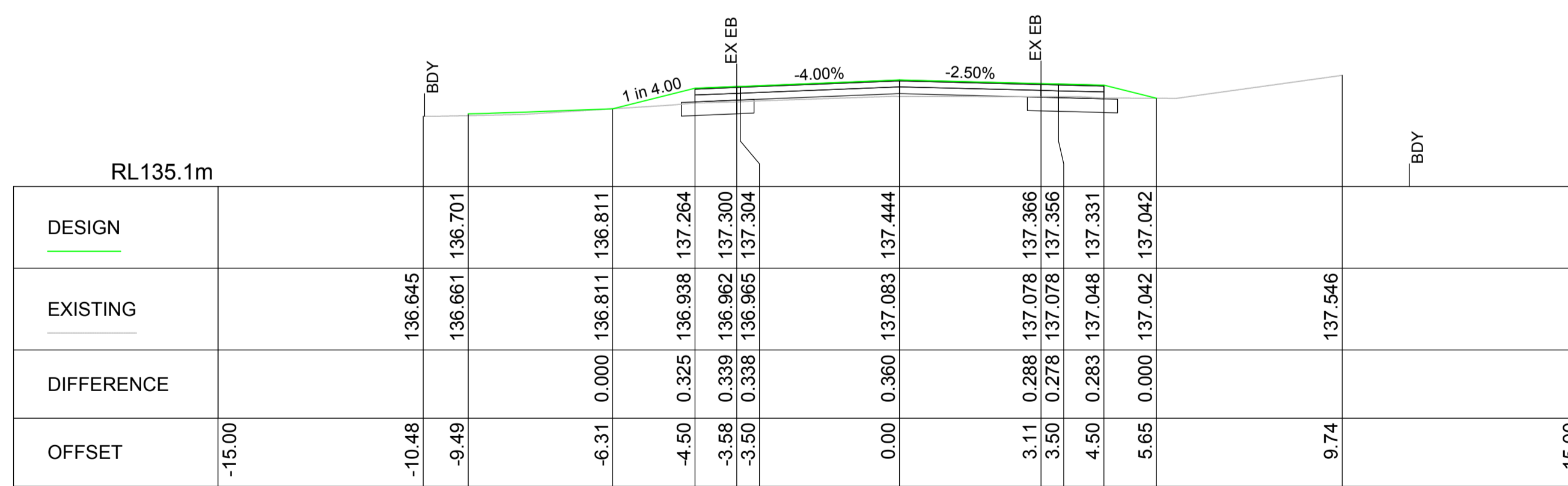
CH 1600.00 m  
SANDY CREEK ROAD



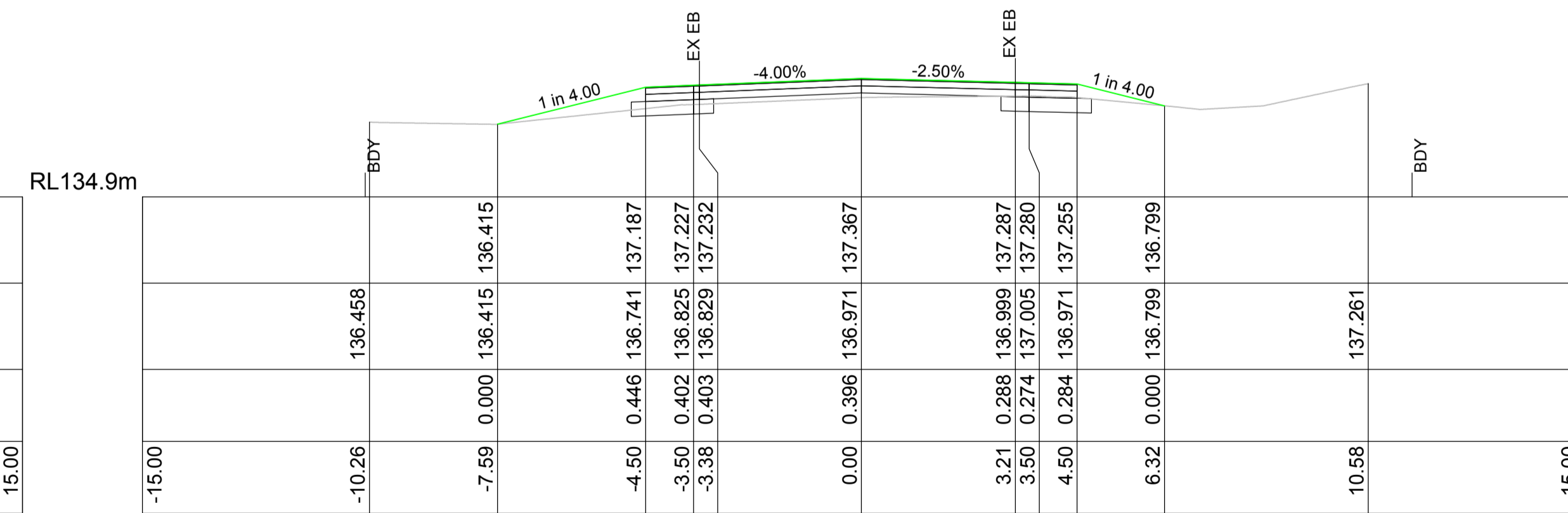
CH 1580.00 m  
SANDY CREEK ROAD



CH 1598.79 m  
SANDY CREEK ROAD



CH 1575.00 m  
SANDY CREEK ROAD



CH 1596.50 m  
SANDY CREEK ROAD

	DESIGN	EXISTING	DIFFERENCE	OFFSET
-15.00				-15.00
-10.48	136.645	136.661	-0.016	-10.48
-9.49				-9.49
-6.31	0.000	136.811	-6.311	-6.31
-4.50	0.325	136.938	-4.503	-4.50
-3.58	0.339	136.962	-3.581	-3.58
-3.50	0.338	136.965	-3.502	-3.50
0.00	0.360	137.083	-0.360	0.00
3.11	0.288	137.078	0.288	3.11
3.50	0.278	137.078	0.278	3.50
4.50	0.283	137.048	0.283	4.50
5.65	0.000	137.042	5.650	5.65
9.74		137.546	9.740	9.74
15.00				15.00

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

AL Civil Design  
5 Yew Street  
GILLIESTON HEIGHTS NSW 2321  
0466 253 917

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SURVEY:	DELFS LASCELLES
DESIGN:	M.M
DRAWN:	M.M
CHECKED:	M.M
DATE:	11.08.2023
APPROVED:	M.M

CLIENT	CESSNOCK CITY COUNCIL	
PLAN:	LONGITUDINAL SECTION	CROSS SECTION
1:100 (A1)	HORIZ. N/A	HORIZ. 1:100
	VERT. N/A	VERT. 1:100

PROJECT  
**LOCAL ROAD RENEWAL  
 STAGE 1 & STAGE 2  
 SANDY CREEK ROAD, QUORROBOLONG**

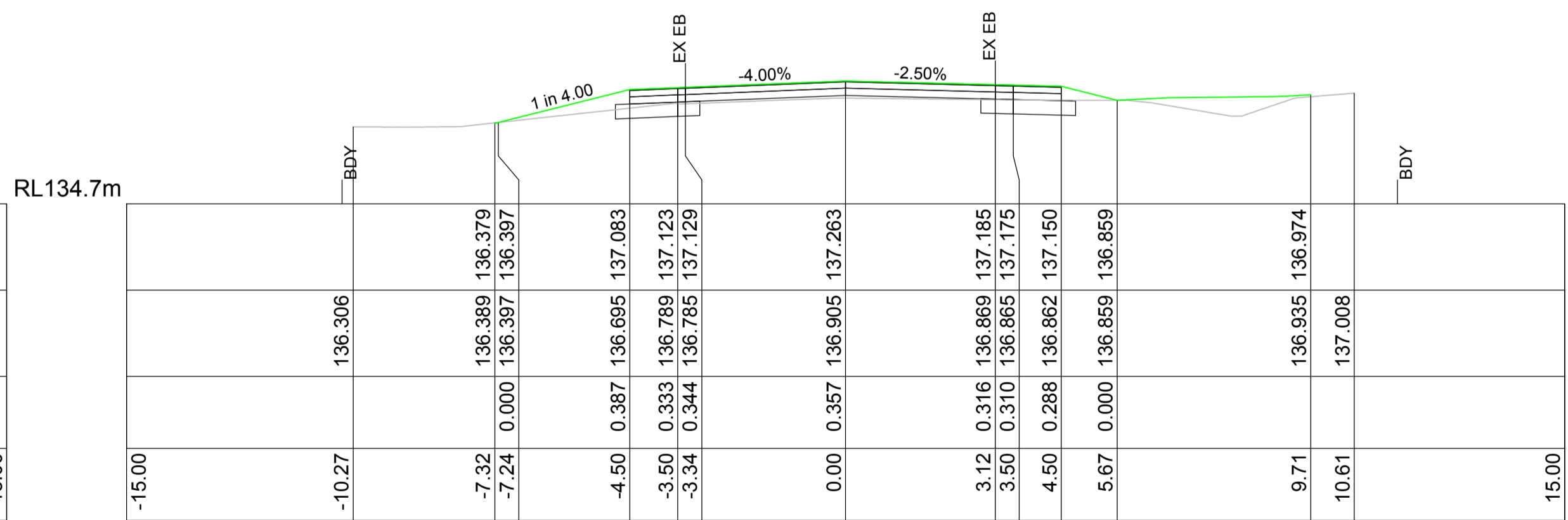
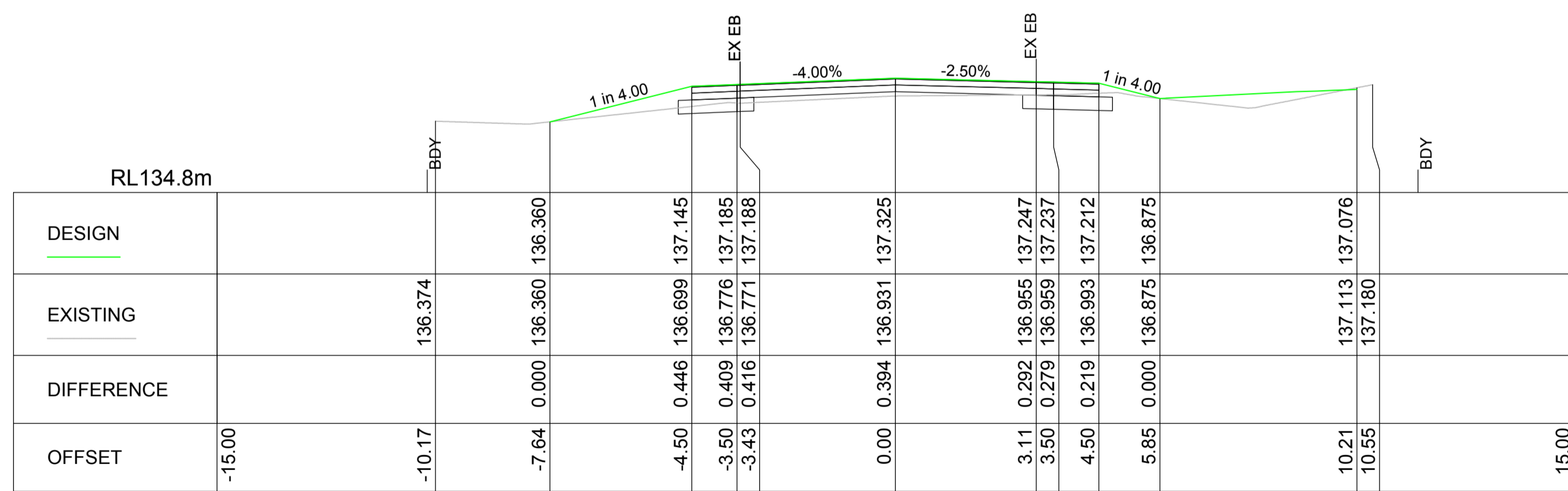
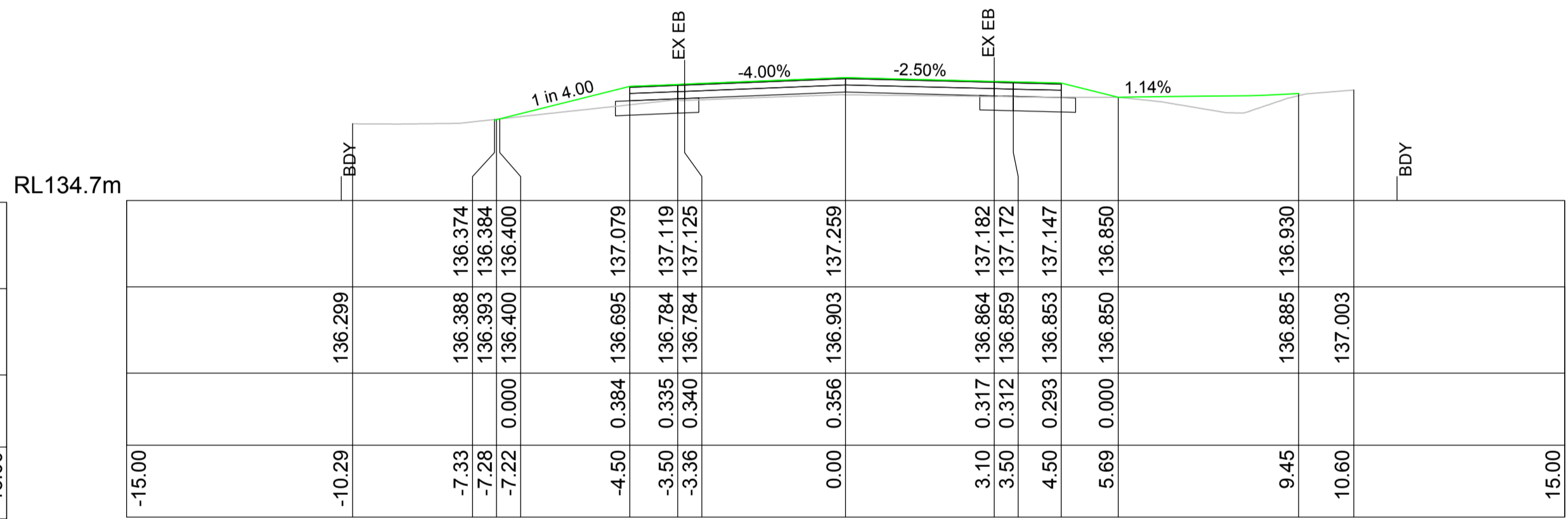
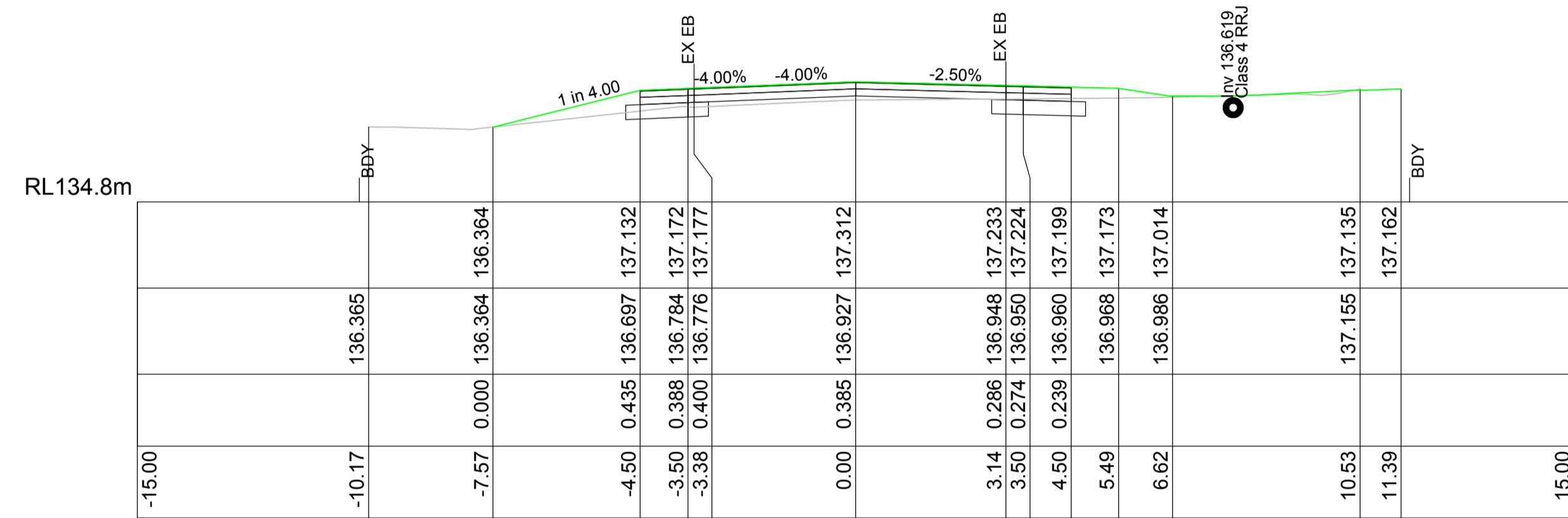
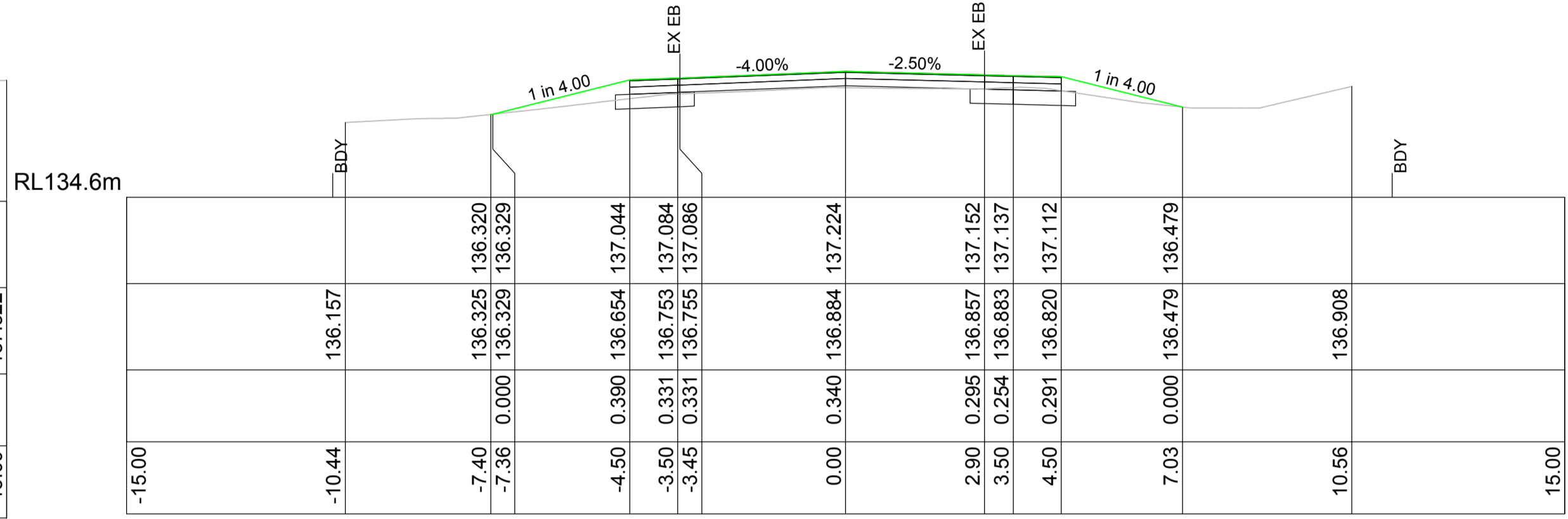
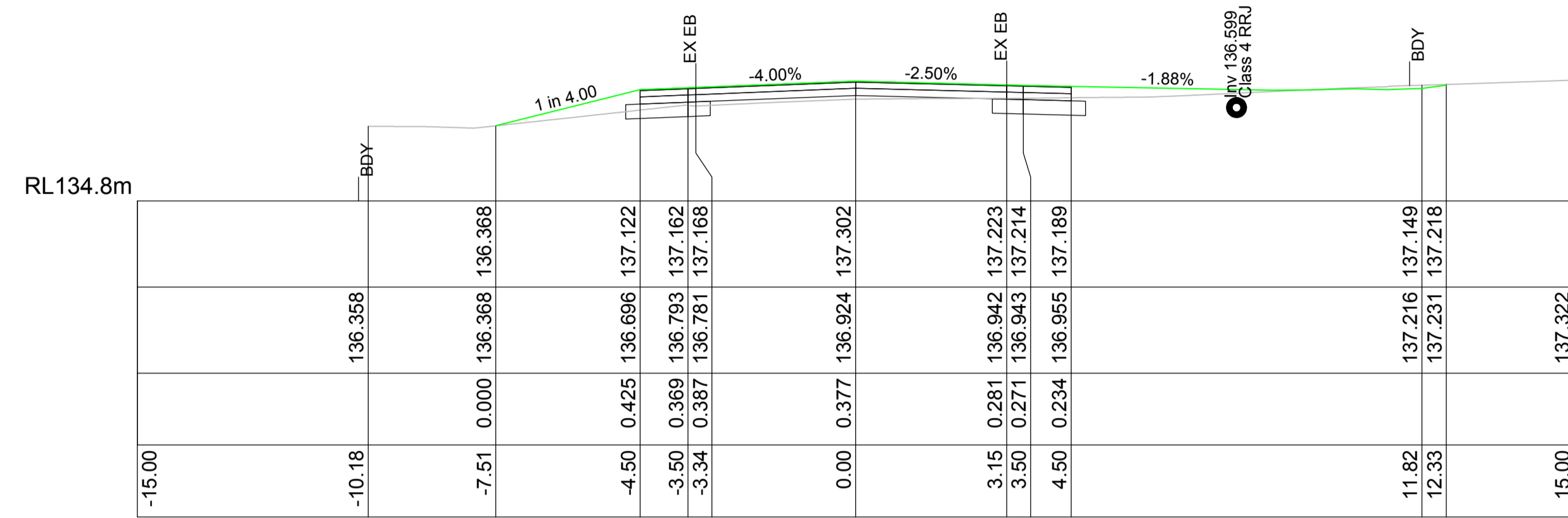
DRAWING TITLE  
**CROSS SECTIONS SHEET 41 OF 72**

**SHEET 55 OF 116 SHEETS**

PROJECT No	AL22077	REVISION	1
DWG No	C05-55		

**CONSTRUCTION**

1:100 (A1)



DESIGN															
EXISTING		136.374	136.360	136.699	136.785	136.771	136.931	136.955	136.959	136.993	136.875	137.113	137.076	137.180	
DIFFERENCE			0.000	0.446	0.409	0.416	0.394	0.292	0.279	0.219	0.000	0.000	0.000	0.000	
OFFSET	-15.00	-10.17	-7.64	-4.50	-3.50	-3.43	0.00	3.11	3.50	4.50	5.85	10.21	10.55	15.00	

1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE

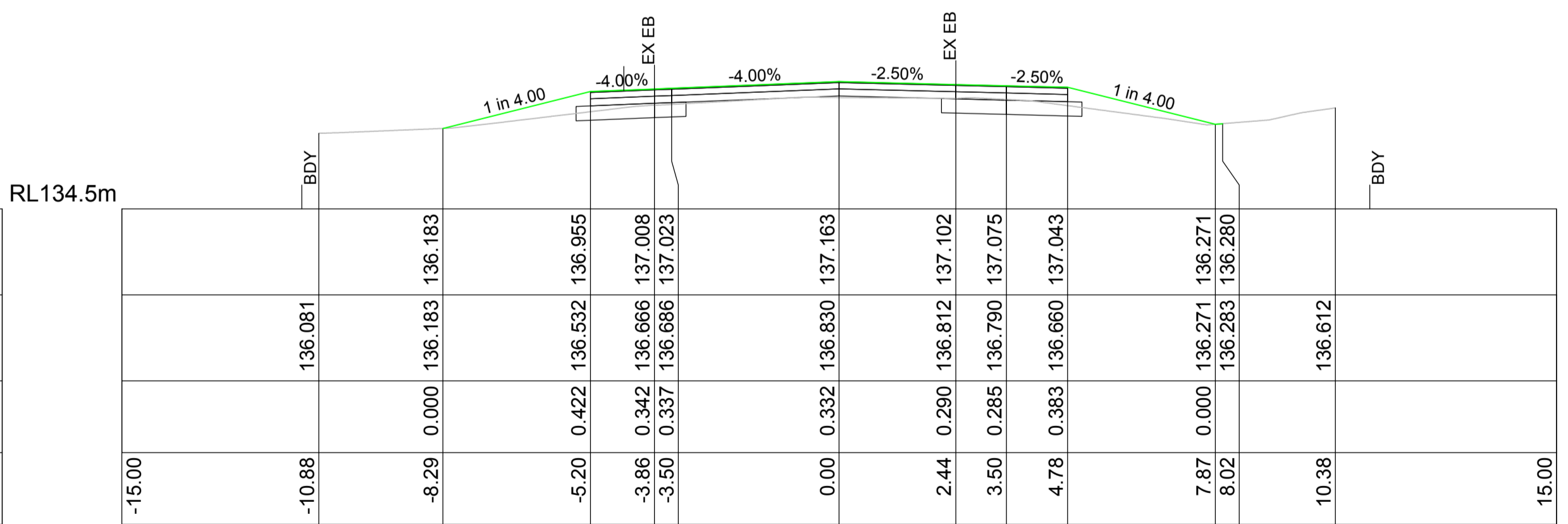
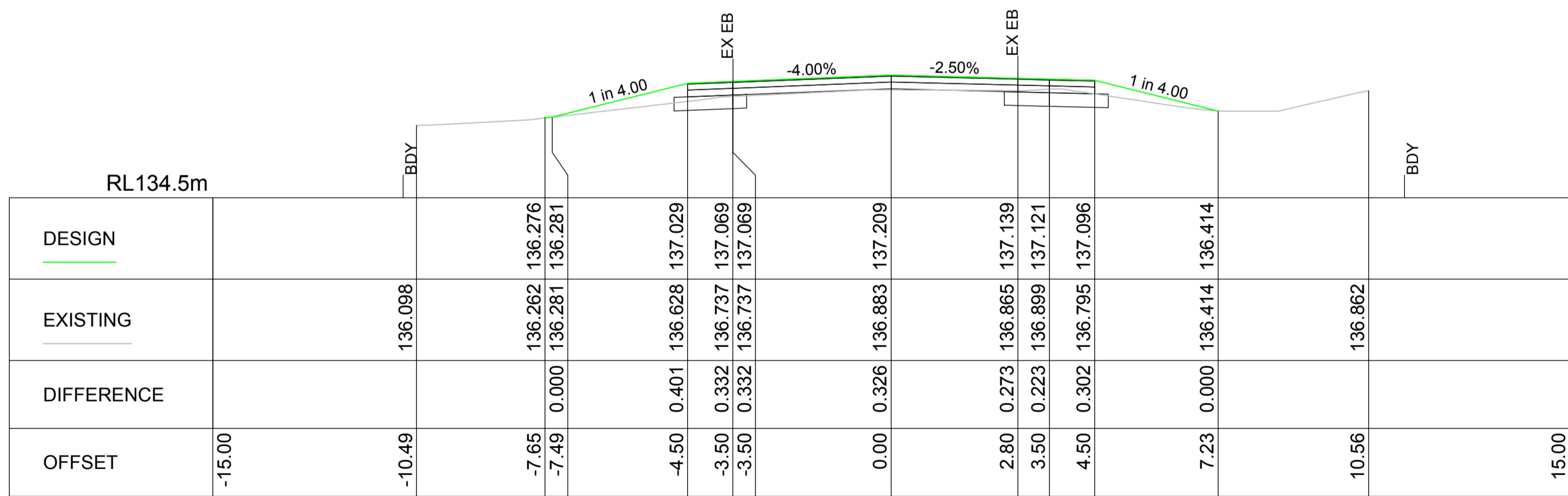
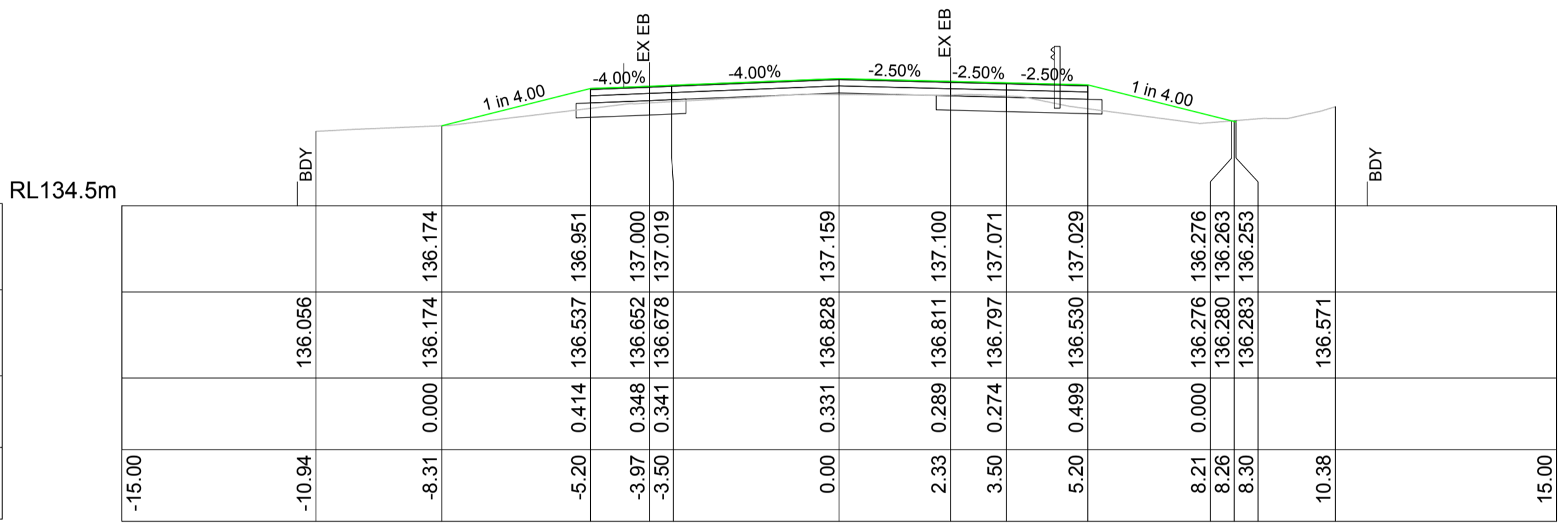
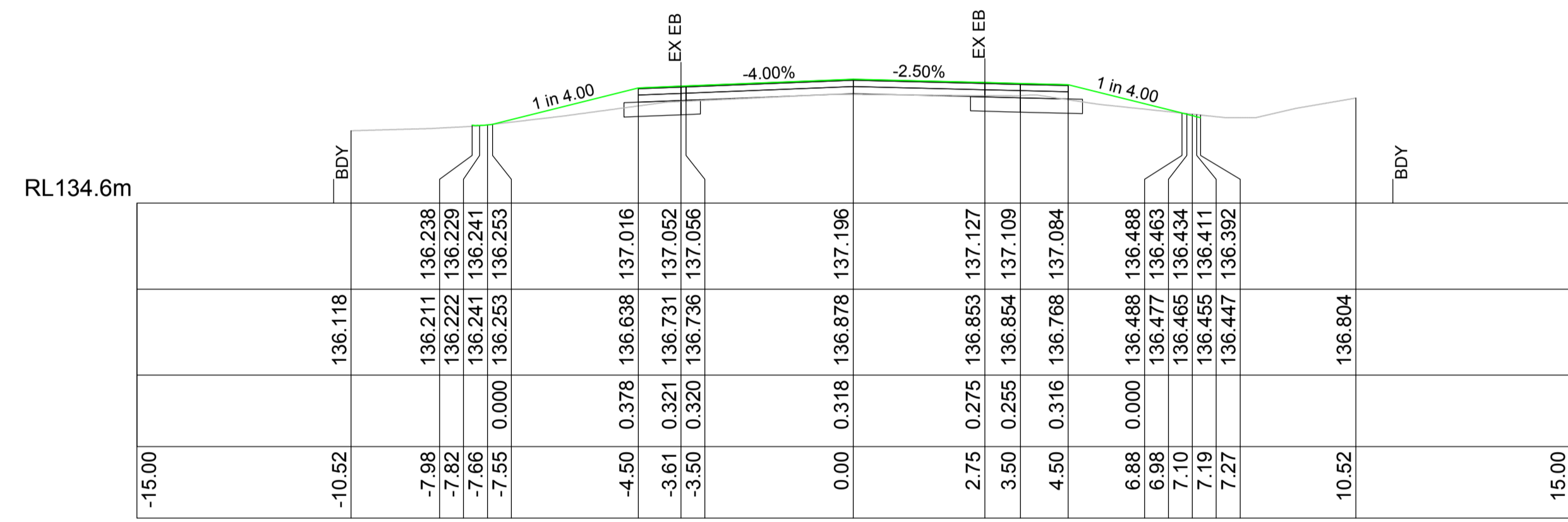
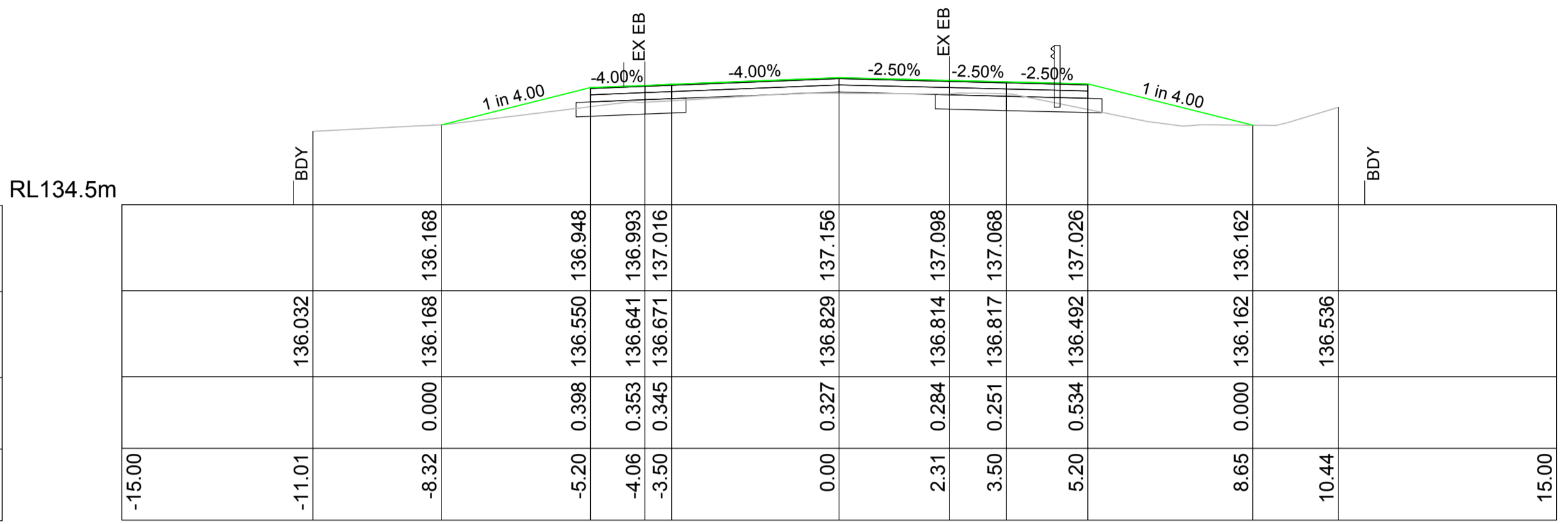
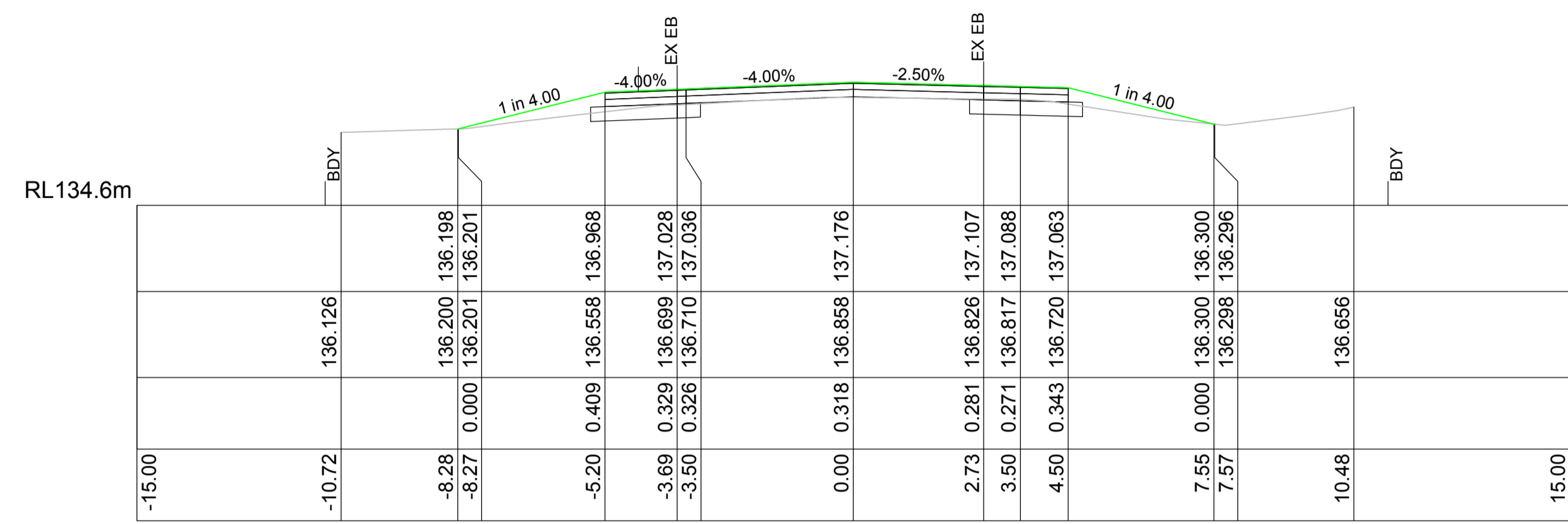


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SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M	PROJECT:	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWN:	M.M	DRAWING TITLE:	CROSS SECTIONS SHEET 42 OF 72
CHECKED:	M.M	SHEET:	56 OF 116 SHEETS
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION CROSS SECTION
APPROVED:	M.M	1:100 (A1)	HORIZ. N/A HORIZ. 1:100 VERT. N/A VERT. 1:100

PROJECT No	AL22077	REVISION	1
DWG No	C05-56		
<b>CONSTRUCTION</b>			
2 1 0 2 4 6 1:100 (A1)			





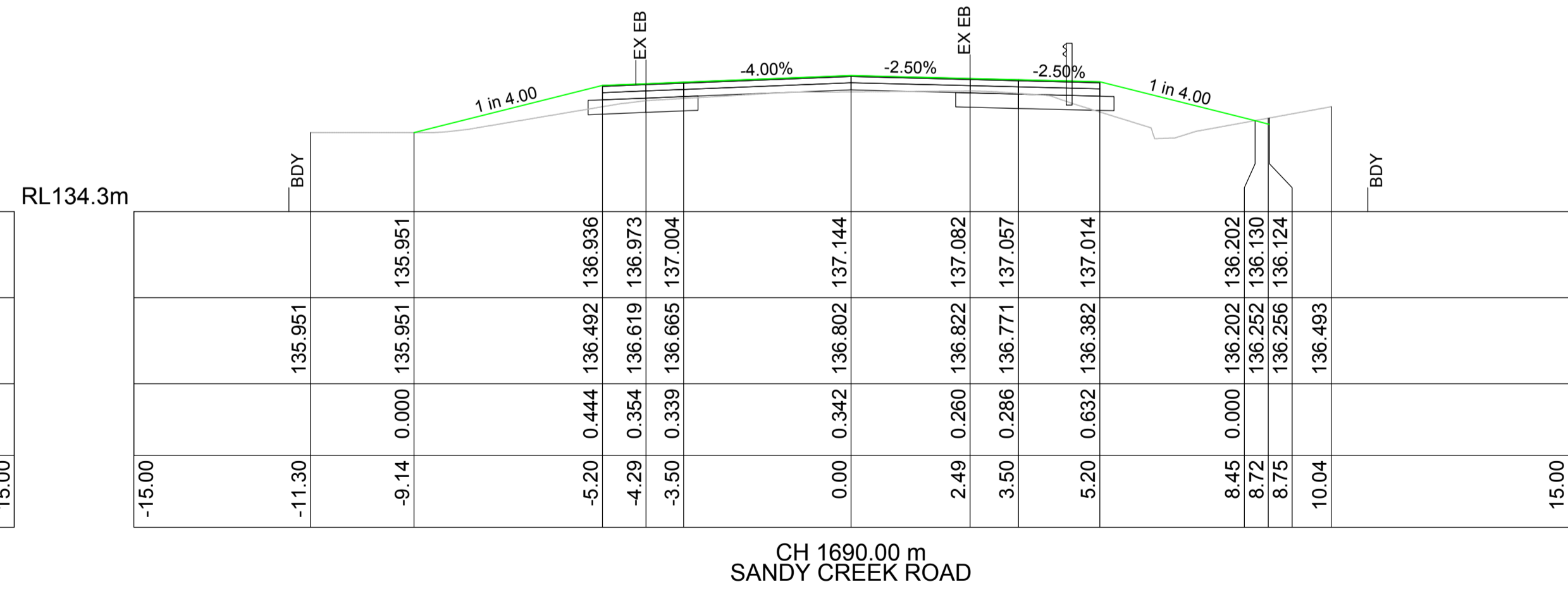
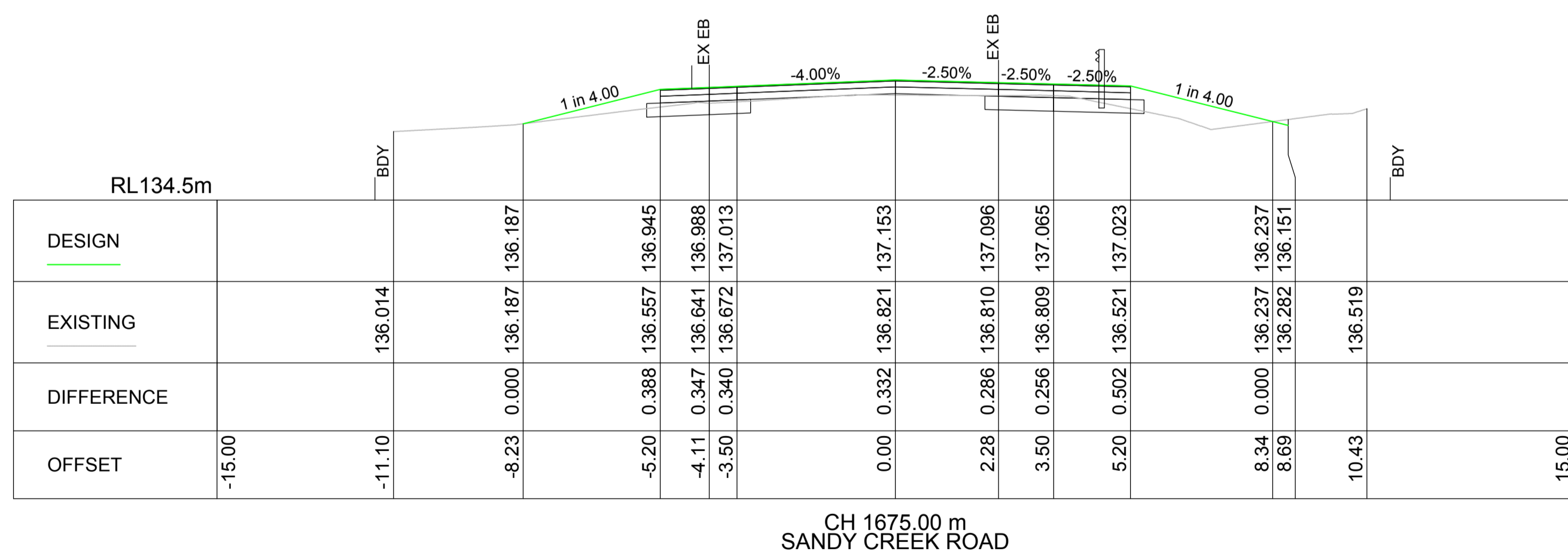
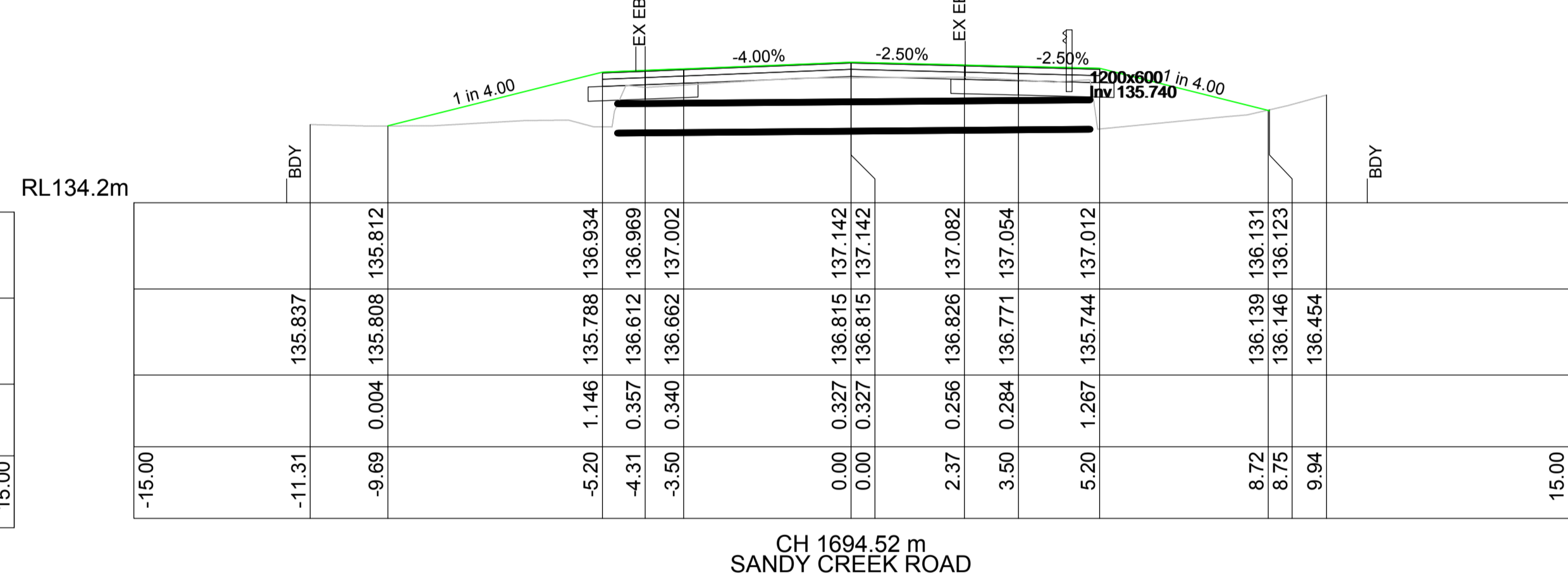
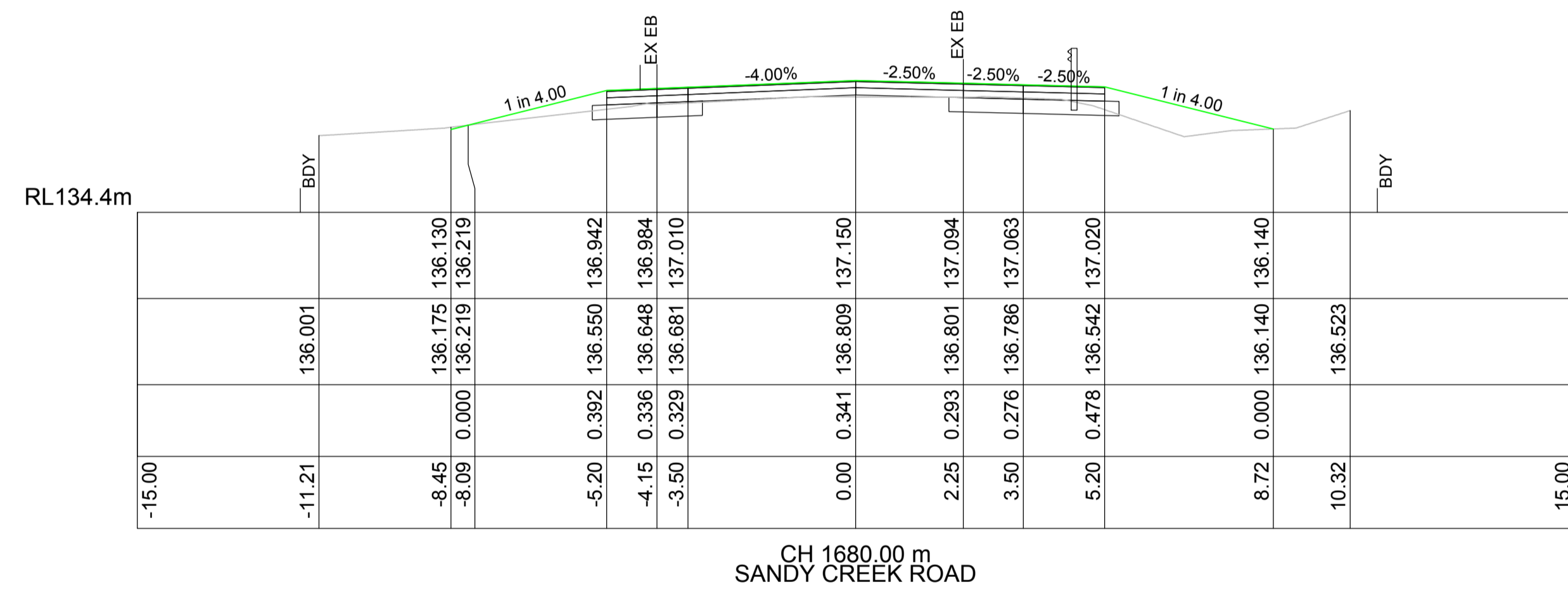
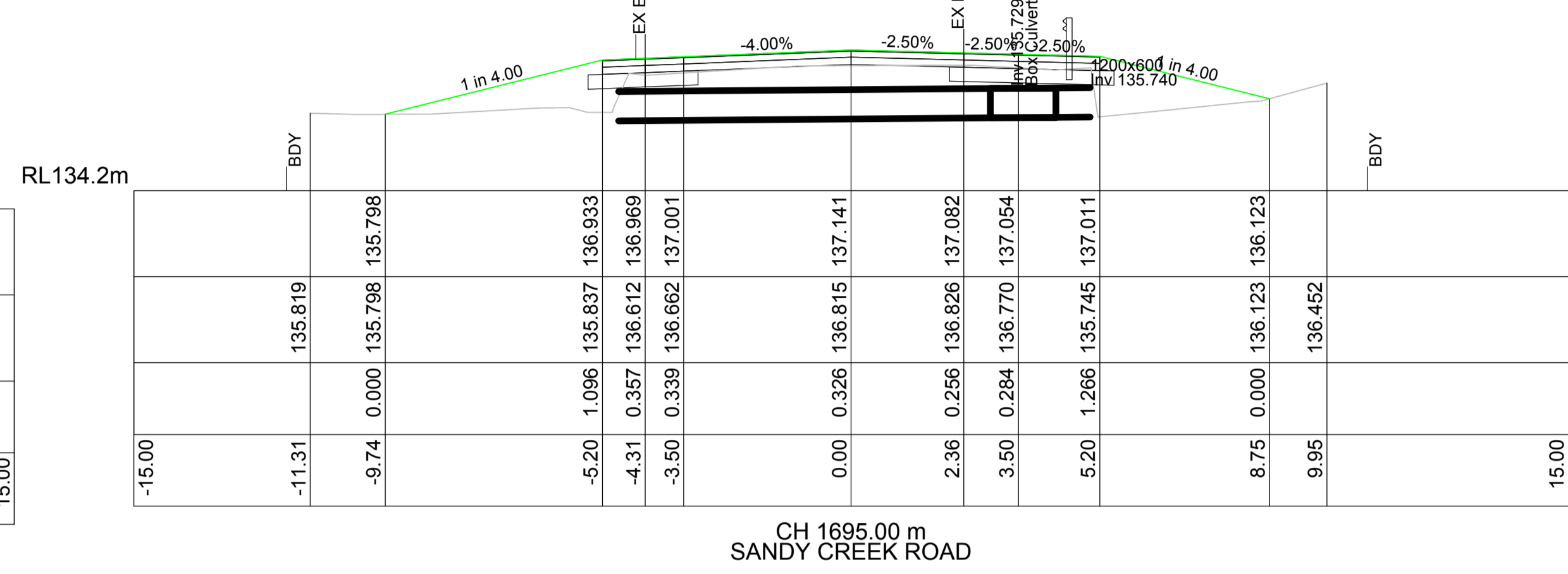
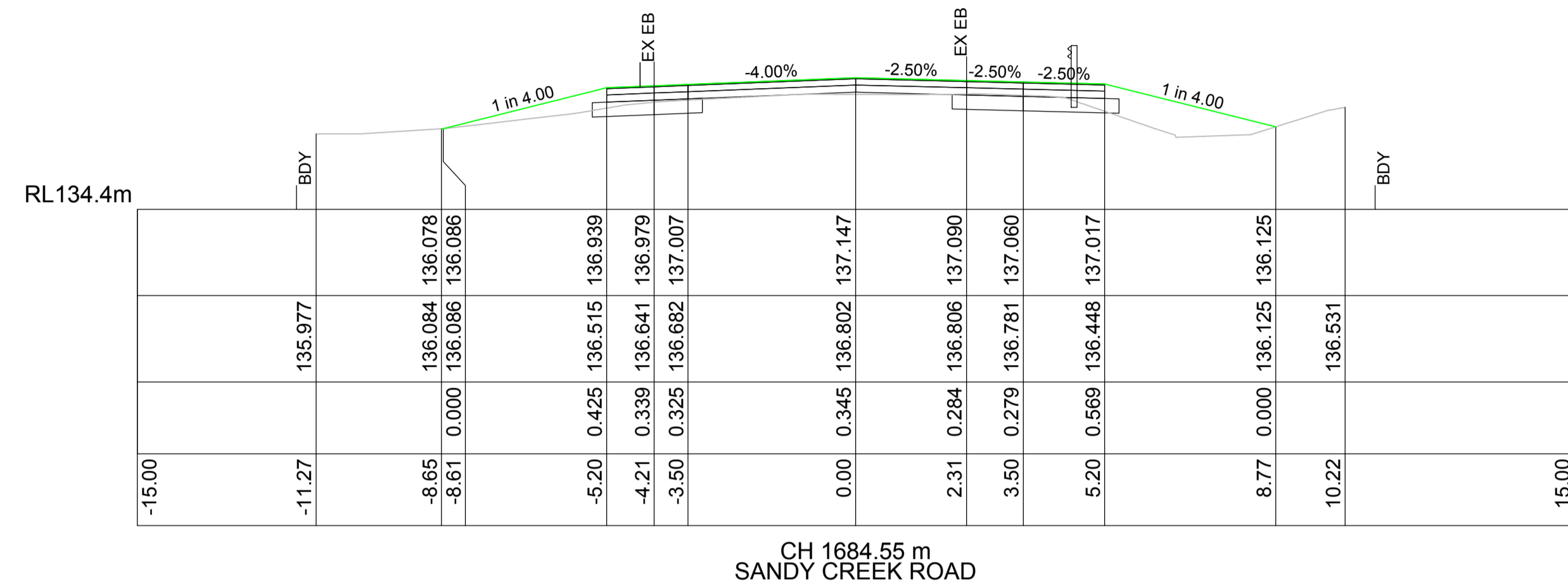
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE



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SURVEY:	DELFS LASCELLES	CLIENT	CESSNOCK CITY COUNCIL
DESIGN:	M.M	PROJECT	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWN:	M.M	DRAWING TITLE	CROSS SECTIONS SHEET 43 OF 72
CHECKED:	M.M	PROJECT No	AL22077
DATE:	11.08.2023	DWG No	C05-57
APPROVED:	M.M	REVISION	1
PLAN:	LONGITUDINAL SECTION CROSS SECTION	PROJECT No	AL22077
1:100 (A1)	HORIZ. N/A HORIZ. 1:100	DWG No	C05-57
	VERT. N/A VERT. 1:100	REVISION	1

PROJECT			PROJECT No	AL22077
LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG			DWG No	C05-57
DRAWING TITLE			REVISION	1
CROSS SECTIONS SHEET 43 OF 72			CONSTRUCTION	
SHEET 57 OF 116 SHEETS			2 1 0 2 4 6	
			1:100 (A1)	



	DESIGN	EXISTING	DIFFERENCE	OFFSET
-15.00				
-11.10	136.014	136.014		
-8.23	0.000	136.187	136.187	
-5.20	0.388	136.557	136.945	
-4.11	0.347	136.641	136.988	
-3.50	0.340	136.672	137.013	
0.00	0.332	136.821	137.153	
2.28	0.286	136.810	137.096	
3.50	0.256	136.809	137.065	
5.20	0.502	136.521	137.023	
8.34	0.000	136.237	136.237	
8.69		136.282	136.151	
10.43		136.519		
15.00				

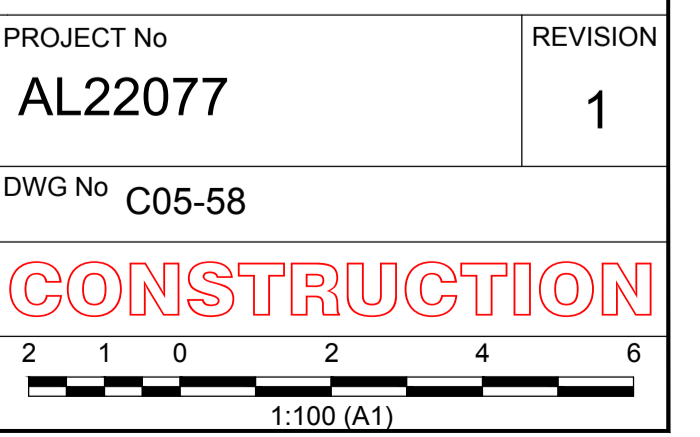
REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

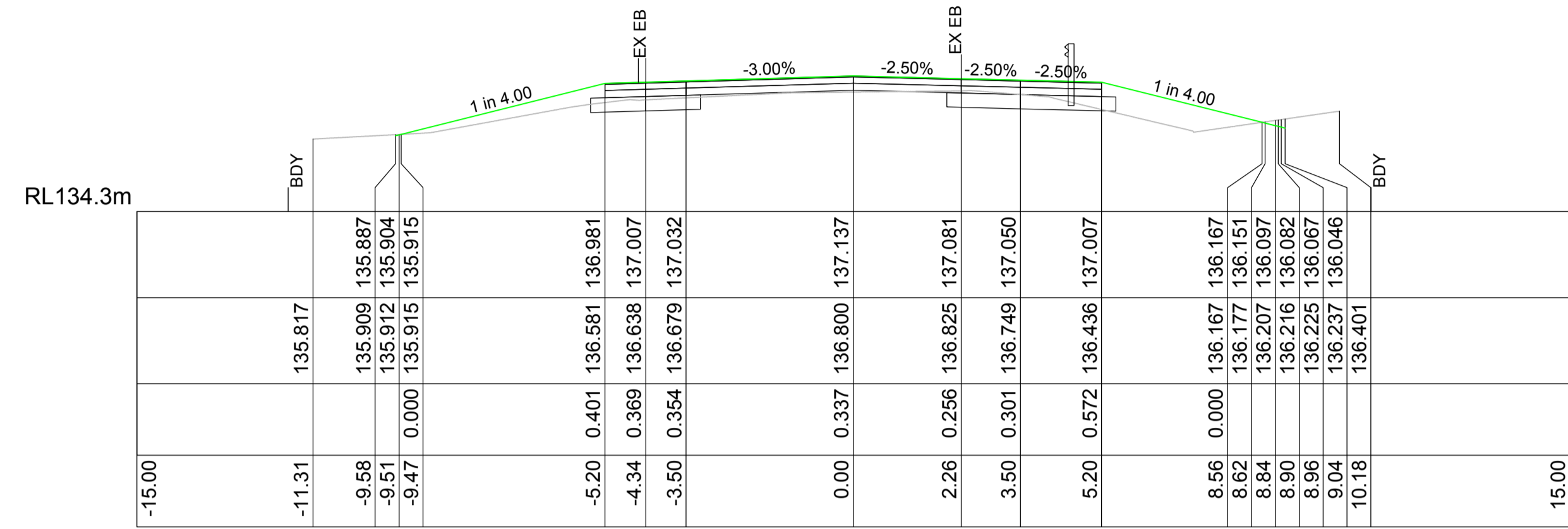


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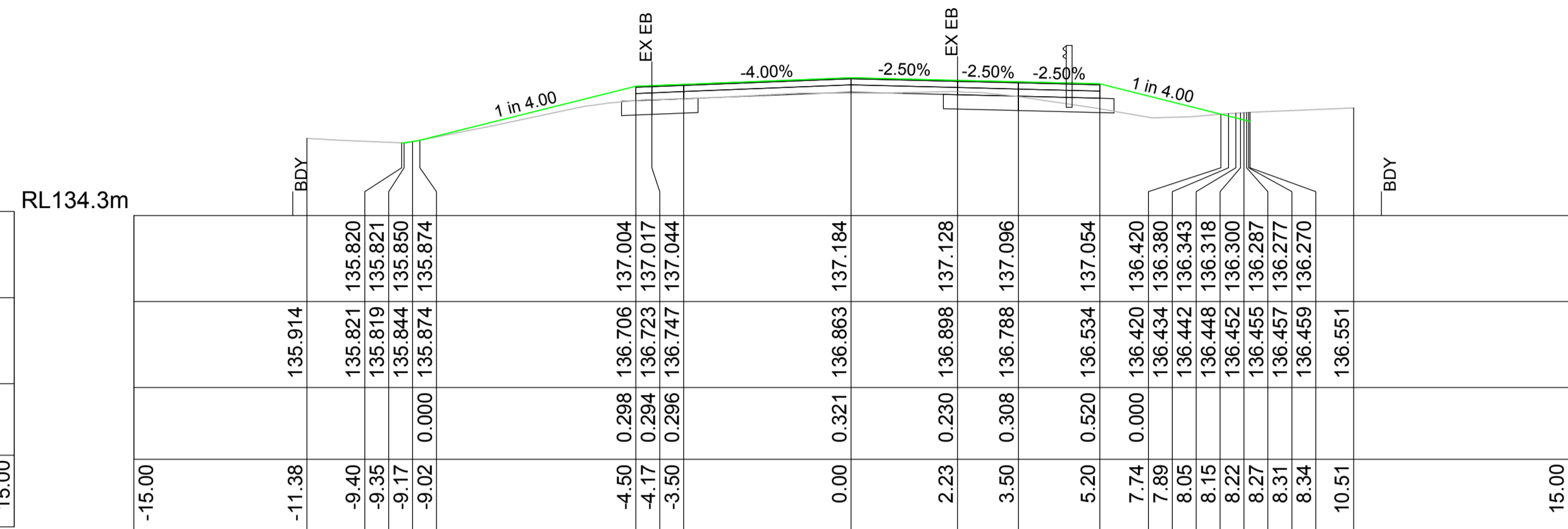
SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M	PROJECT:	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWN:	M.M	DRAWING TITLE:	CROSS SECTIONS SHEET 44 OF 72
CHECKED:	M.M	DATE:	11.08.2023
DATE:	11.08.2023	APPROVED:	M.M
PLAN:	LONGITUDINAL SECTION	CROSS SECTION:	
HORIZ.	N/A	HORIZ.	1:100
VERT.	N/A	VERT.	1:100

PROJECT No:	AL22077	REVISION:	1
DWG No:	C05-58		
<b>CONSTRUCTION</b>			
SHEET 58 OF 116 SHEETS			

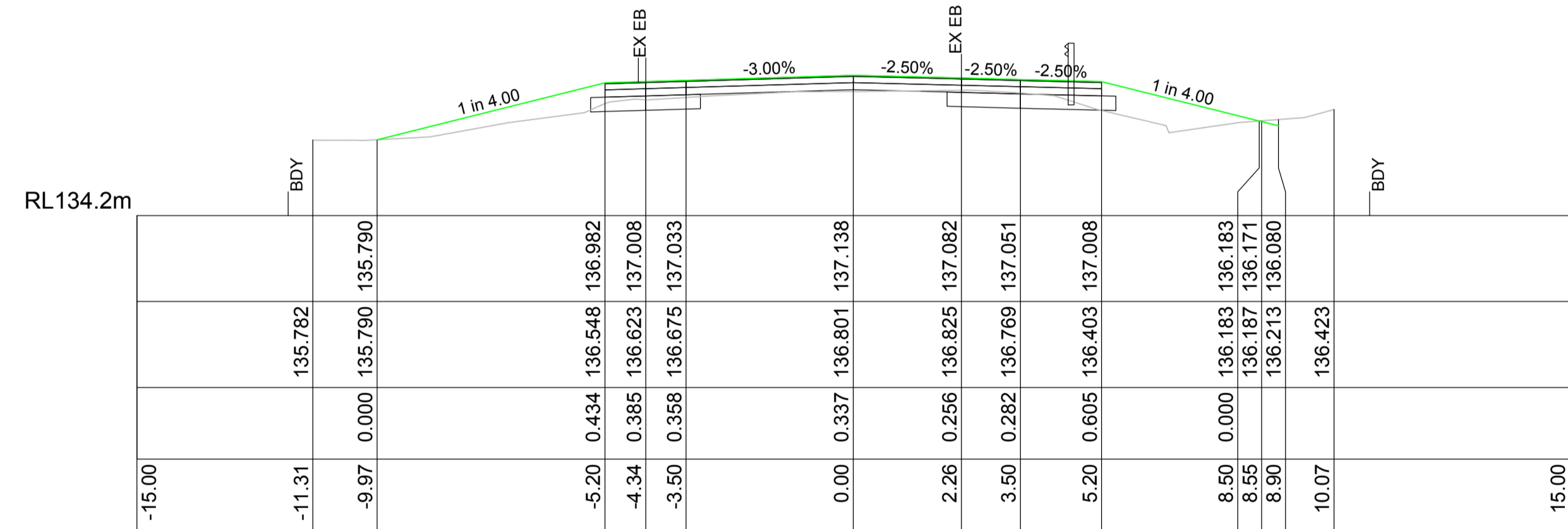




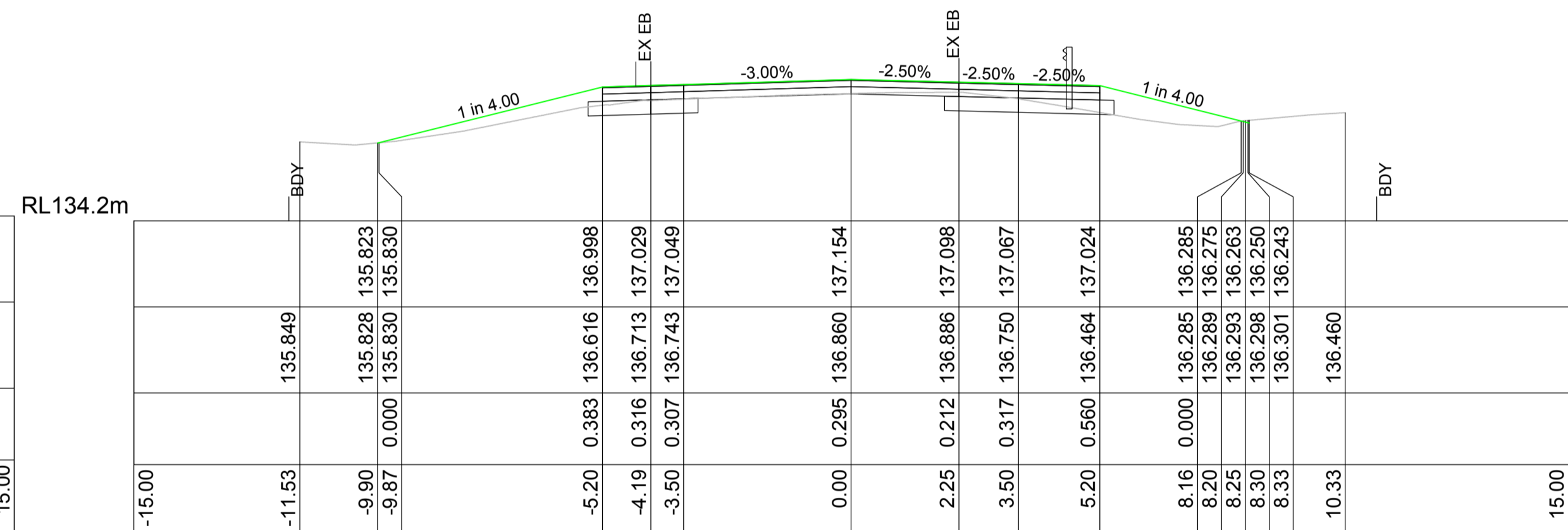
CH 1704.50 m  
SANDY CREEK ROAD



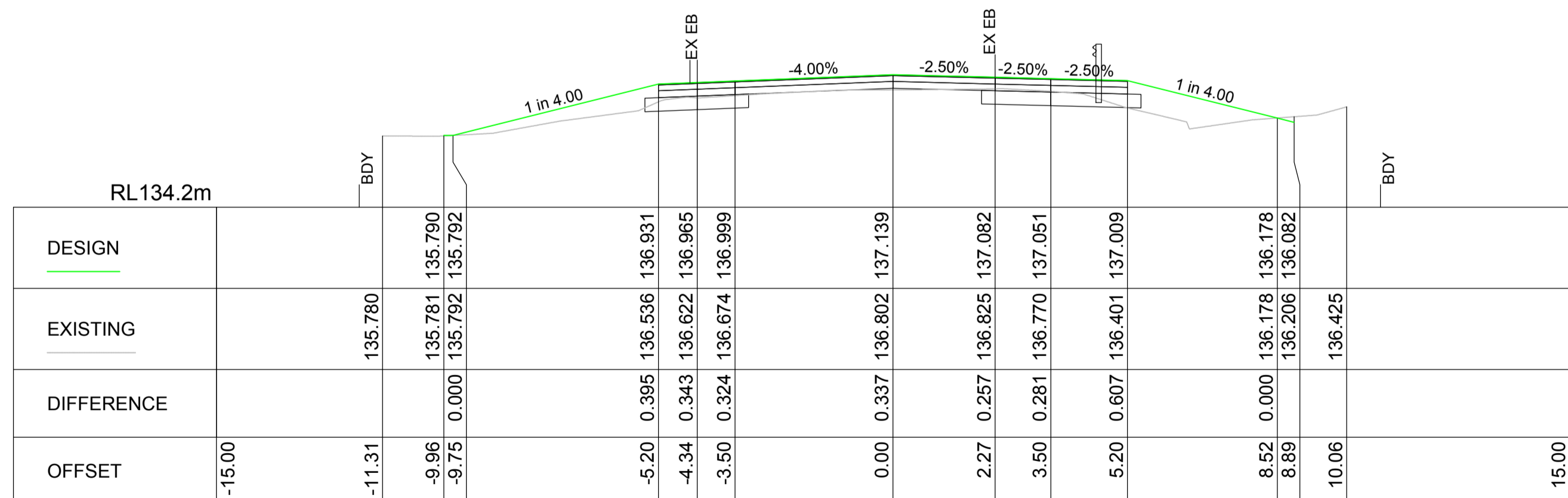
CH 1730.00 m  
SANDY CREEK ROAD



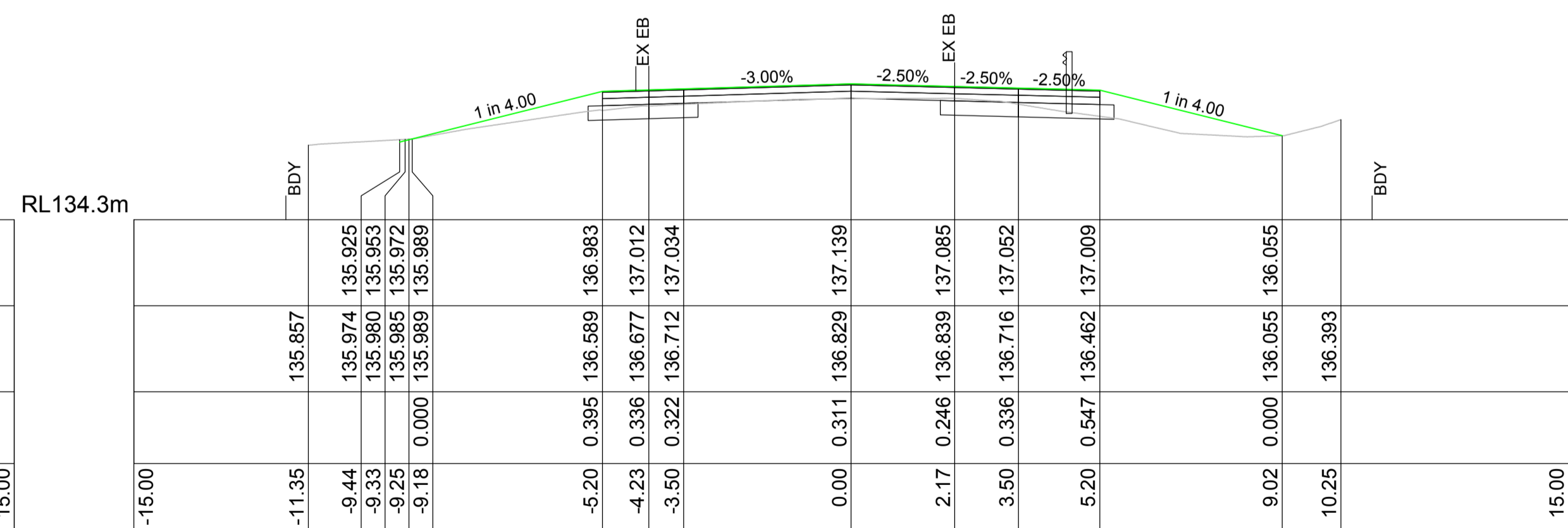
CH 1700.30 m  
SANDY CREEK ROAD



CH 1720.00 m  
SANDY CREEK ROAD



CH 1700.00 m  
SANDY CREEK ROAD



CH 1710.00 m  
SANDY CREEK ROAD

DESIGN	EXISTING	DIFFERENCE	OFFSET
	135.780		-15.00
	135.781		-11.31
	135.792		-9.96
	135.792	0.000	-9.75
	136.536	0.395	-5.20
	136.622	0.343	-4.34
	136.674	0.324	-3.50
	136.802	0.337	0.00
	136.825	0.257	2.27
	136.770	0.281	3.50
	136.401	0.607	5.20
	136.178	0.000	8.52
	136.206	0.027	8.89
	136.425	0.021	10.06
			15.00

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

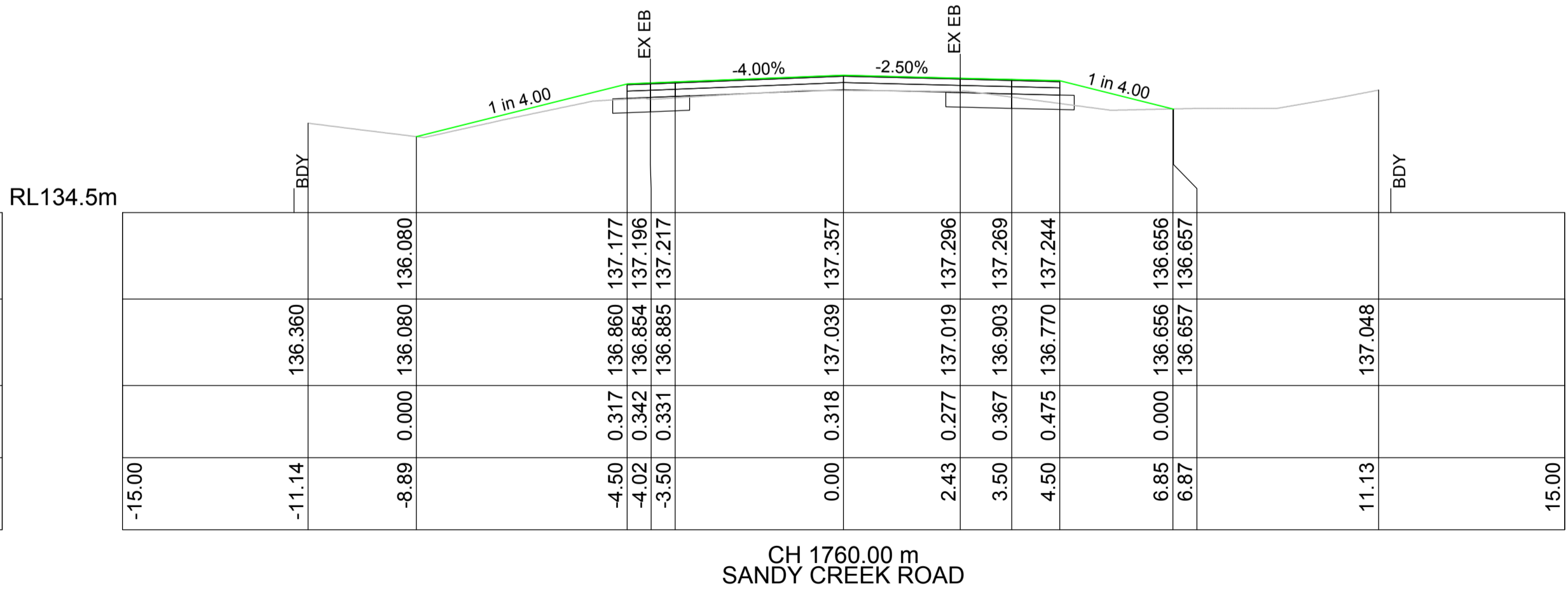
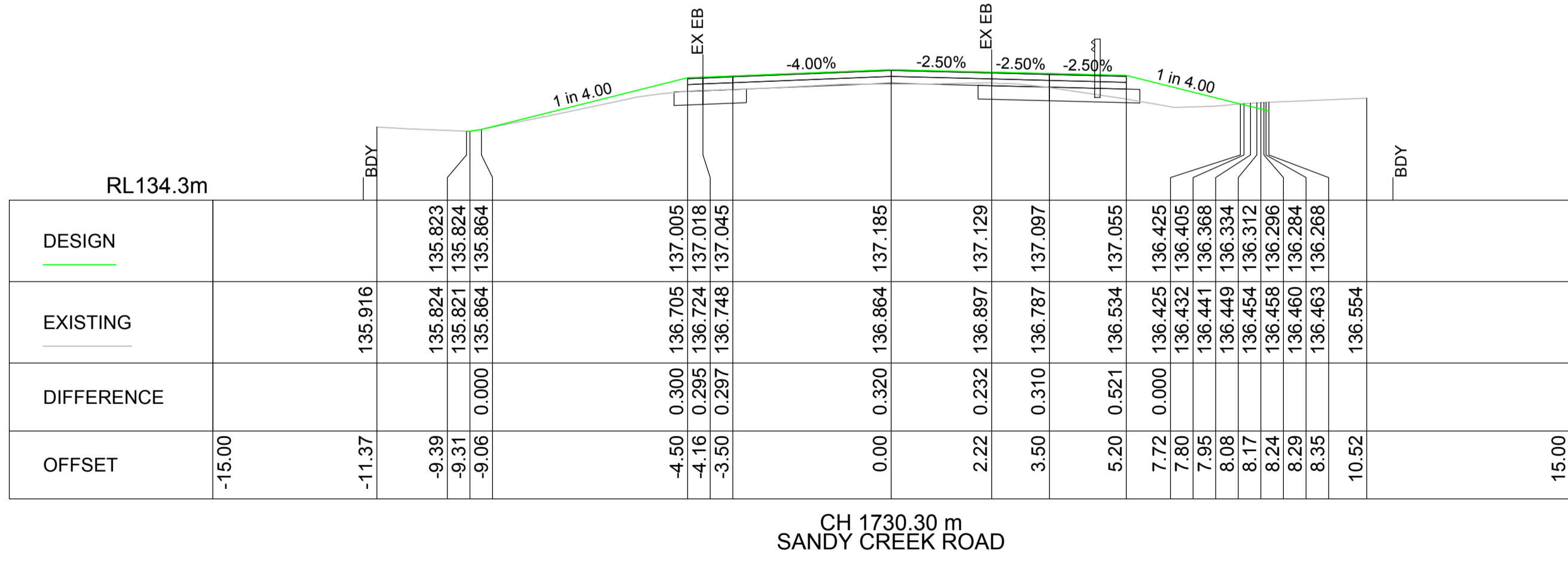
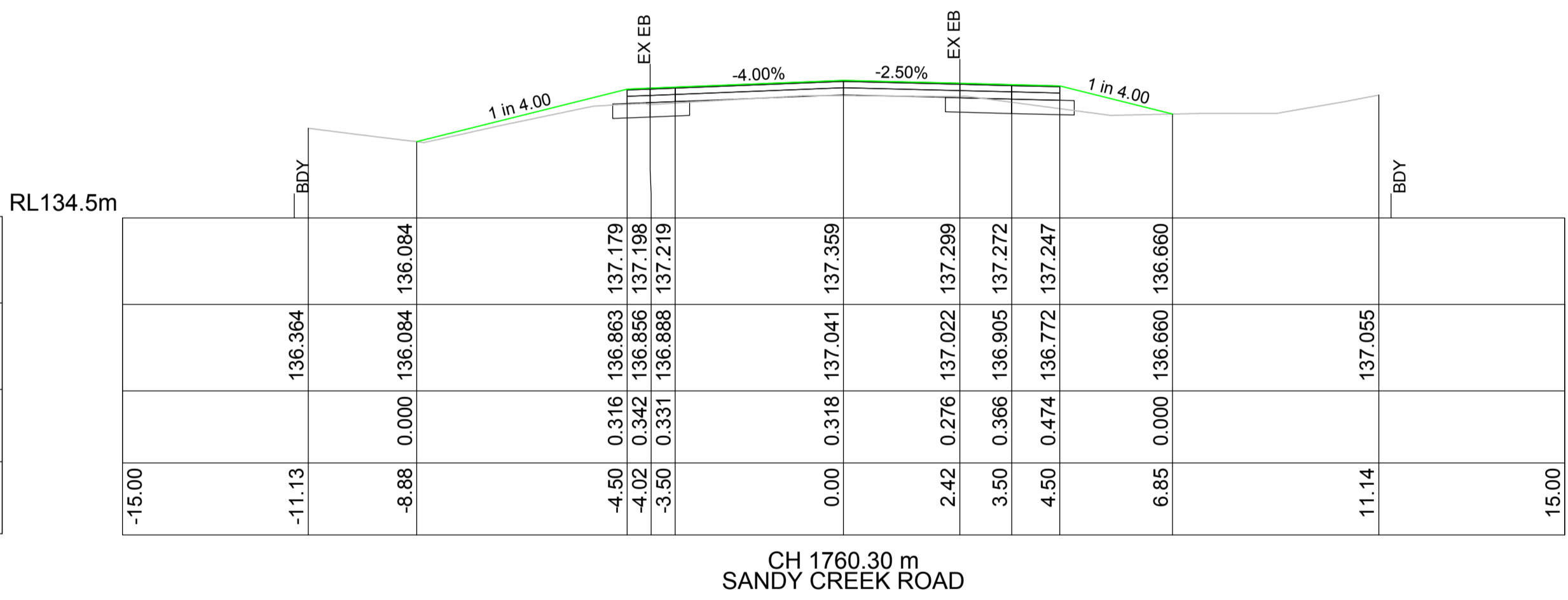
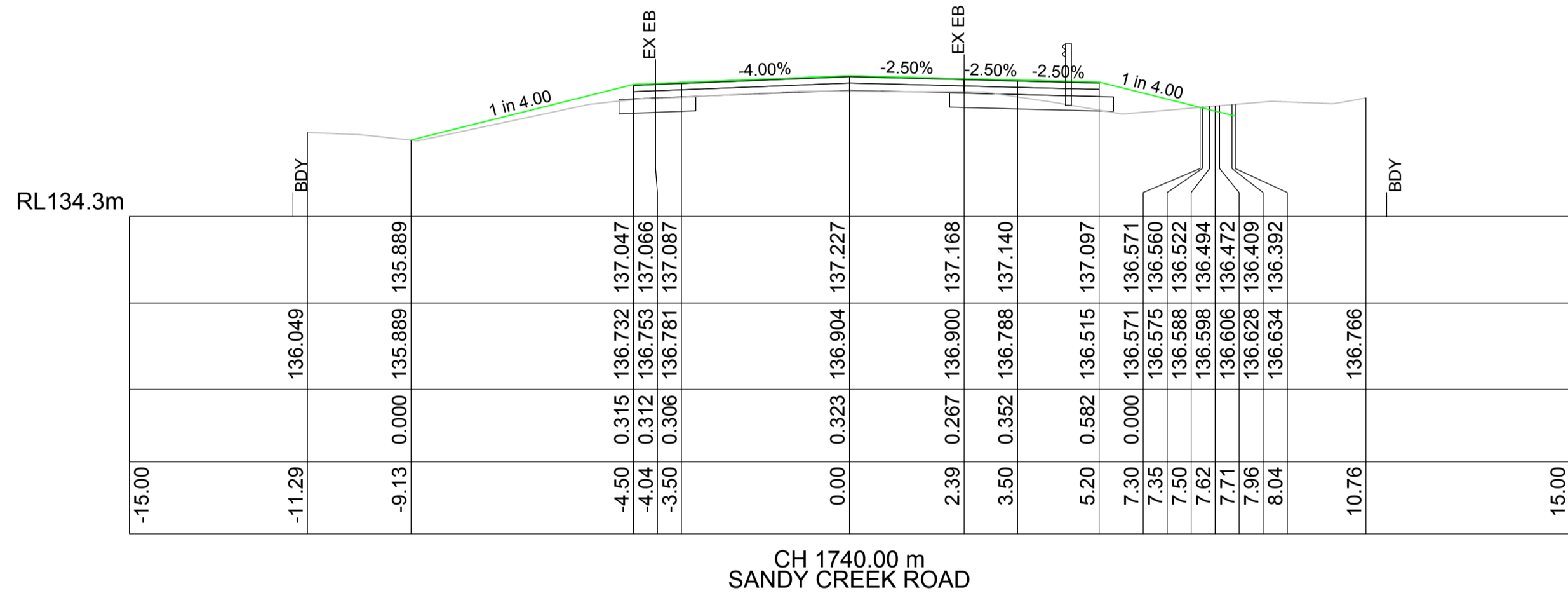
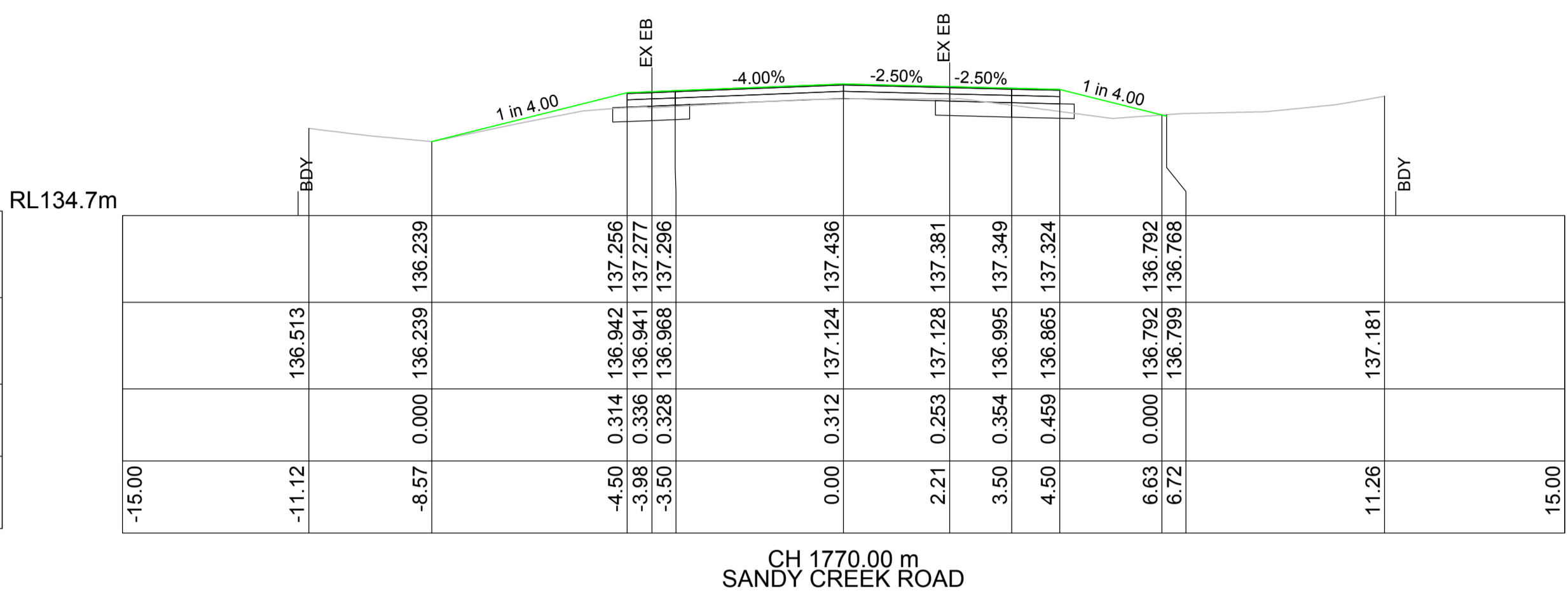
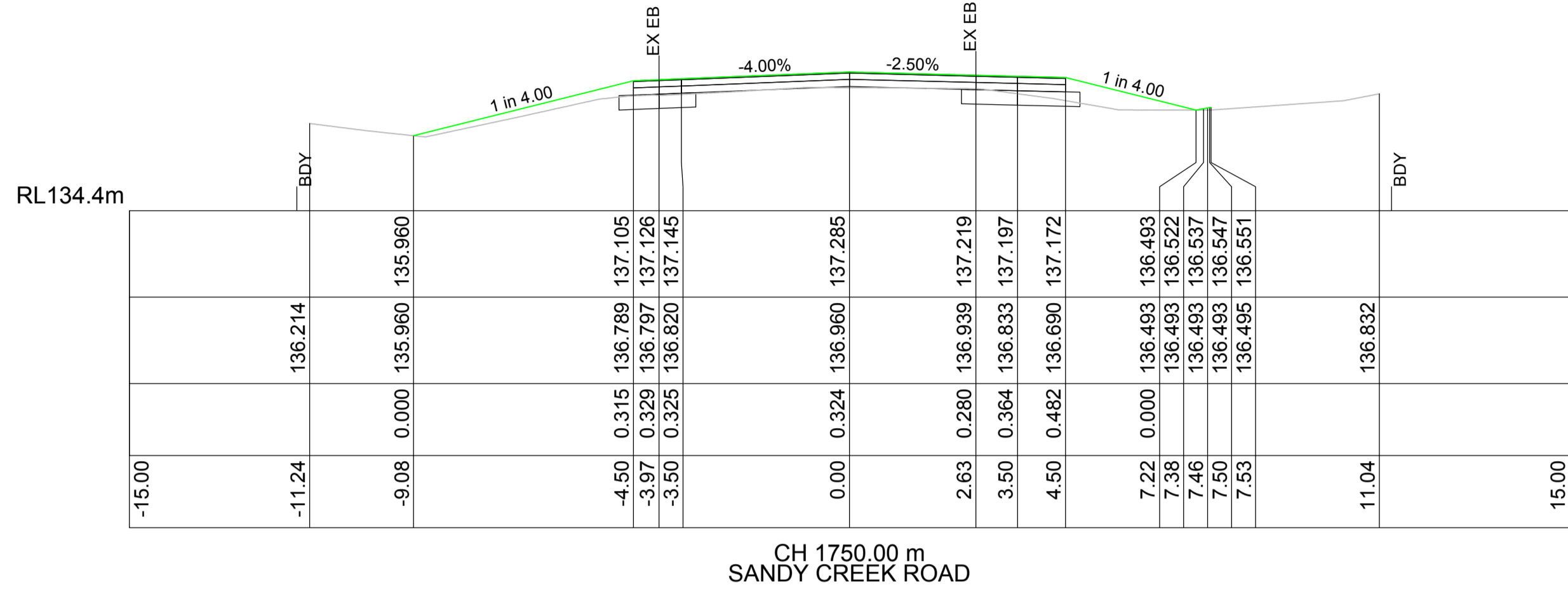
AL CIVIL DESIGN  
5 Yew Street  
GILLIESTON HEIGHTS NSW 2321  
0466 253 917

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SURVEY: DELFS LASCELLES	CLIENT: CESSNOCK CITY COUNCIL
DESIGN: M.M	
DRAWN: M.M	
CHECKED: M.M	
DATE: 11.08.2023	PLAN: LONGITUDINAL SECTION CROSS SECTION
APPROVED: M.M	1:100 (A1) HORIZ. N/A HORIZ. 1:100 VERT. N/A VERT. 1:100

PROJECT: LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG  
 DRAWING TITLE: CROSS SECTIONS SHEET 45 OF 72  
 SHEET 59 OF 116 SHEETS

PROJECT No: AL22077  
 DWG No: C05-59  
 REVISION: 1  
 CONSTRUCTION  
 2 1 0 2 4 6  
 1:100 (A1)

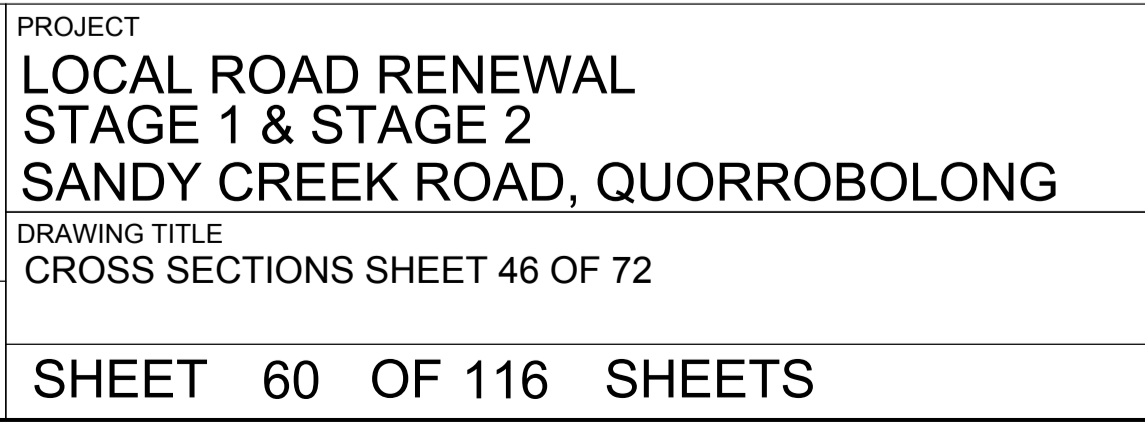


1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE



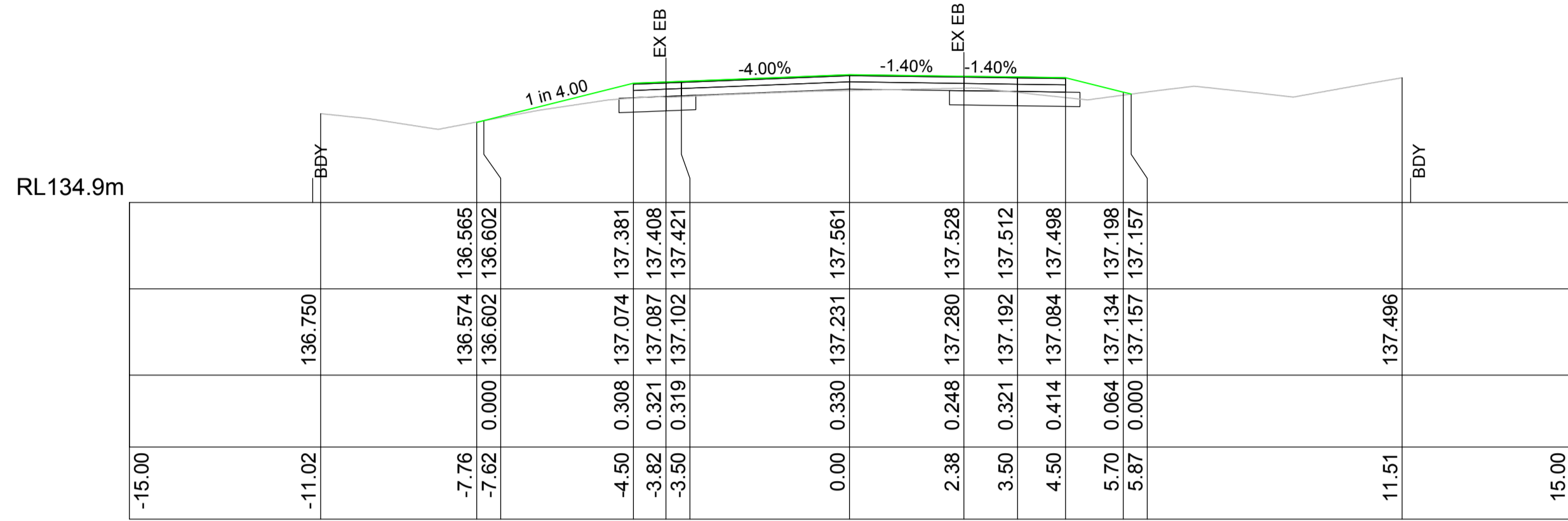
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SURVEY:	DELFS LASCALLETT	CLIENT	CESSNOCK CITY COUNCIL	
DESIGN:	M.M	PROJECT	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG	
DRAWN:	M.M	DRAWING TITLE	CROSS SECTIONS SHEET 46 OF 72	
CHECKED:	M.M	PROJECT No	AL22077	REVISION 1
DATE:	11.08.2023	DWG No	C05-60	
APPROVED:	M.M	SHEET	60	OF 116 SHEETS
PLAN:	1:100 (A1)	CROSS SECTION	HORIZ. 1:100 VERT. 1:100	

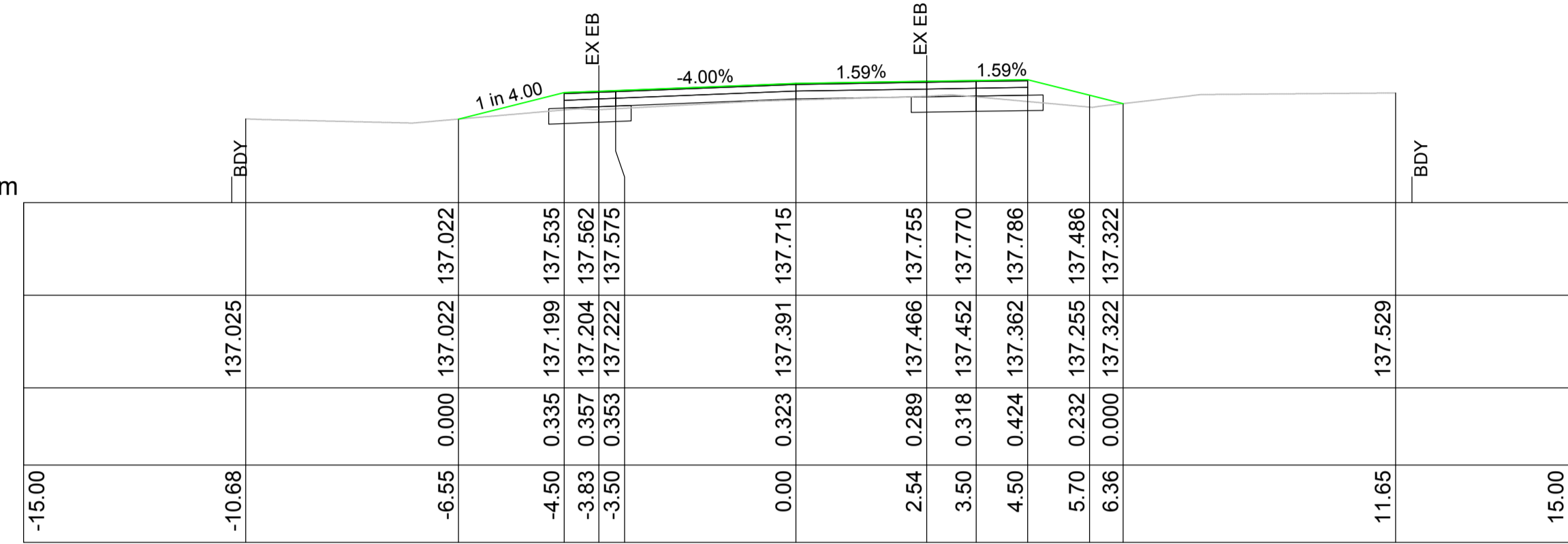


**CONSTRUCTION**

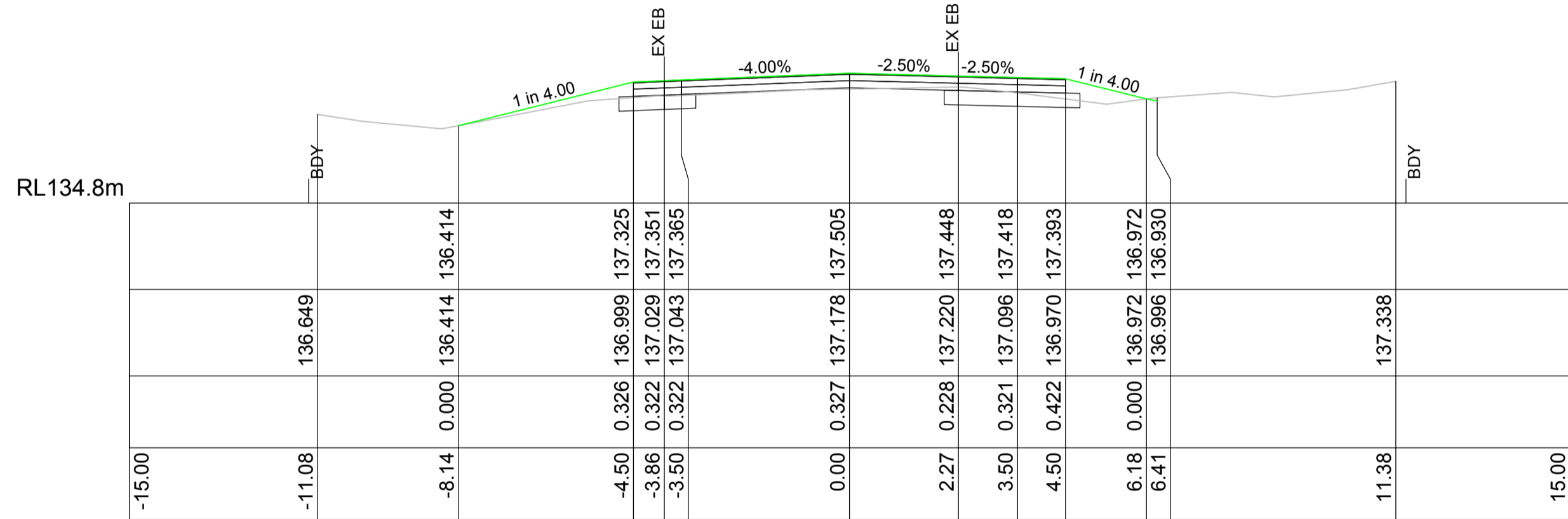
2 1 0 2 4 6  
1:100 (A1)



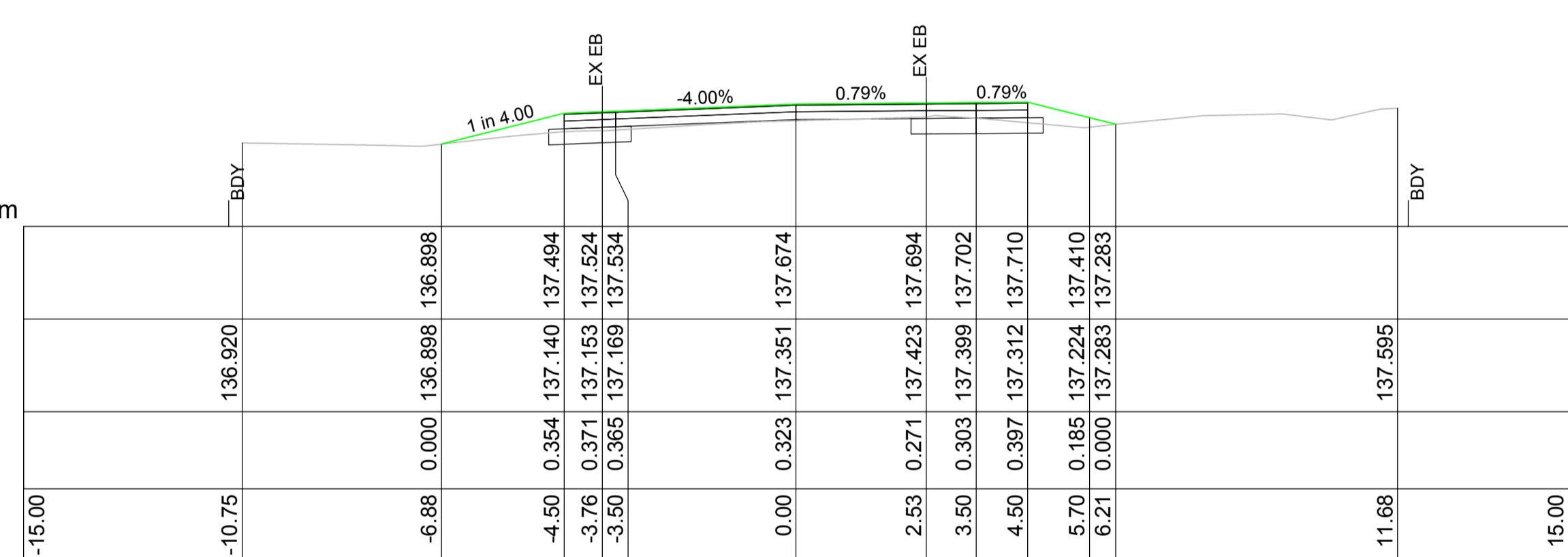
CH 1790.00 m SANDY CREEK ROAD



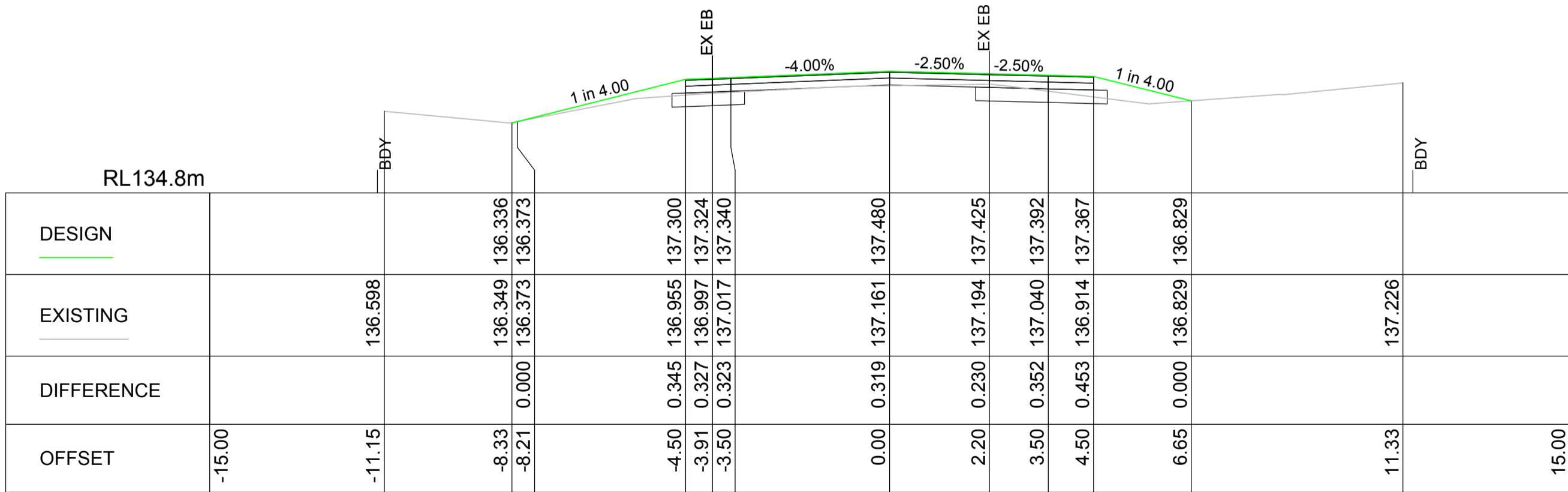
CH 1817.23 m SANDY CREEK ROAD



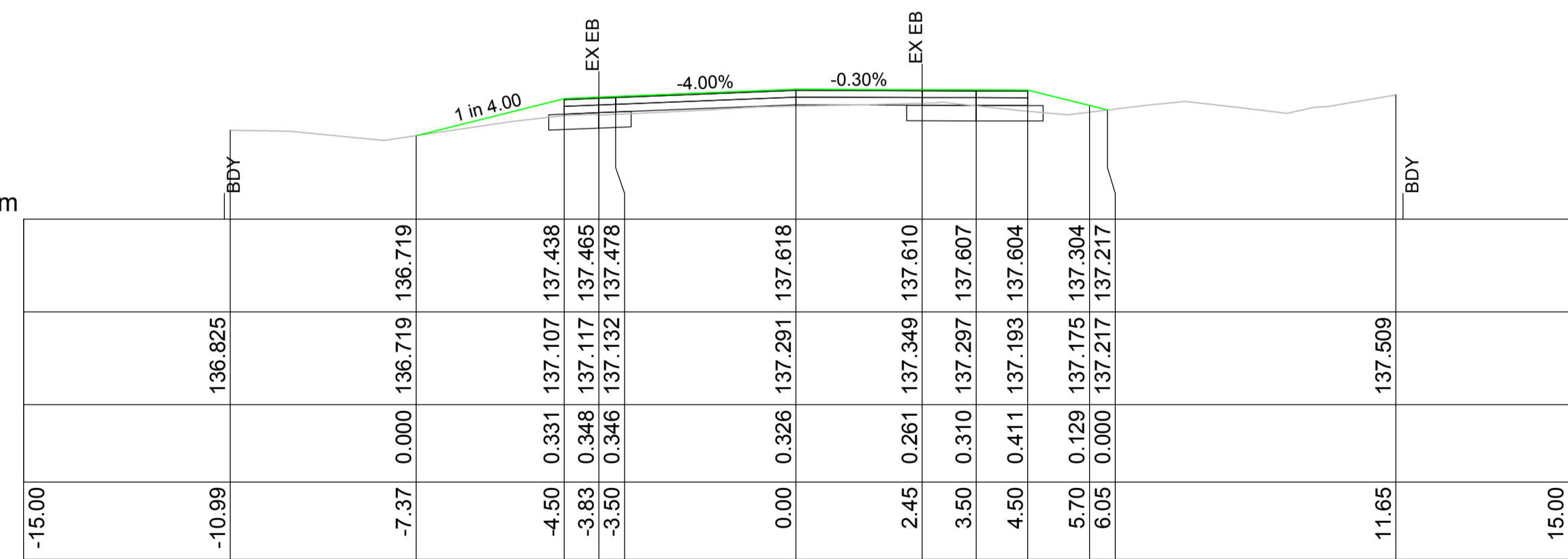
CH 1780.00 m SANDY CREEK ROAD



CH 1810.00 m SANDY CREEK ROAD



CH 1775.54 m SANDY CREEK ROAD



CH 1800.00 m SANDY CREEK ROAD

DESIGN																										
EXISTING																										
DIFFERENCE																										
OFFSET	-15.00	-11.15	-8.33	-8.21	0.000	0.345	0.327	0.327	0.323	0.319	0.230	0.352	0.453	0.000	0.319	0.330	0.330	0.248	0.321	0.321	0.414	0.414	0.064	0.000	0.000	11.51

REV	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE

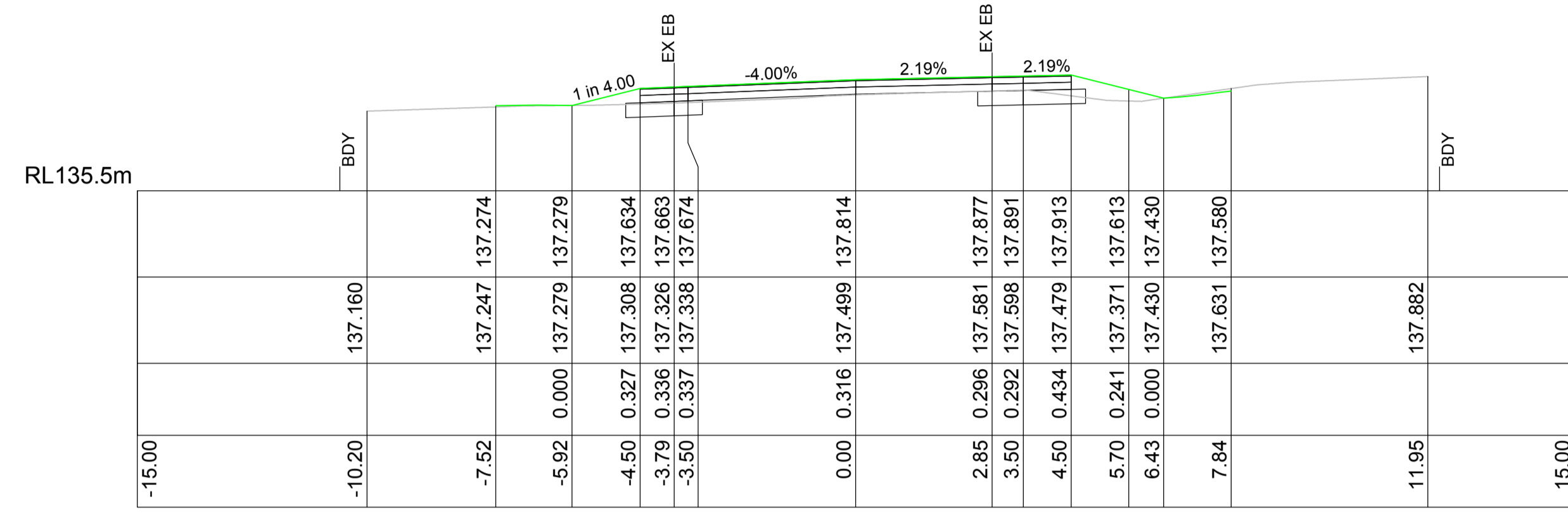


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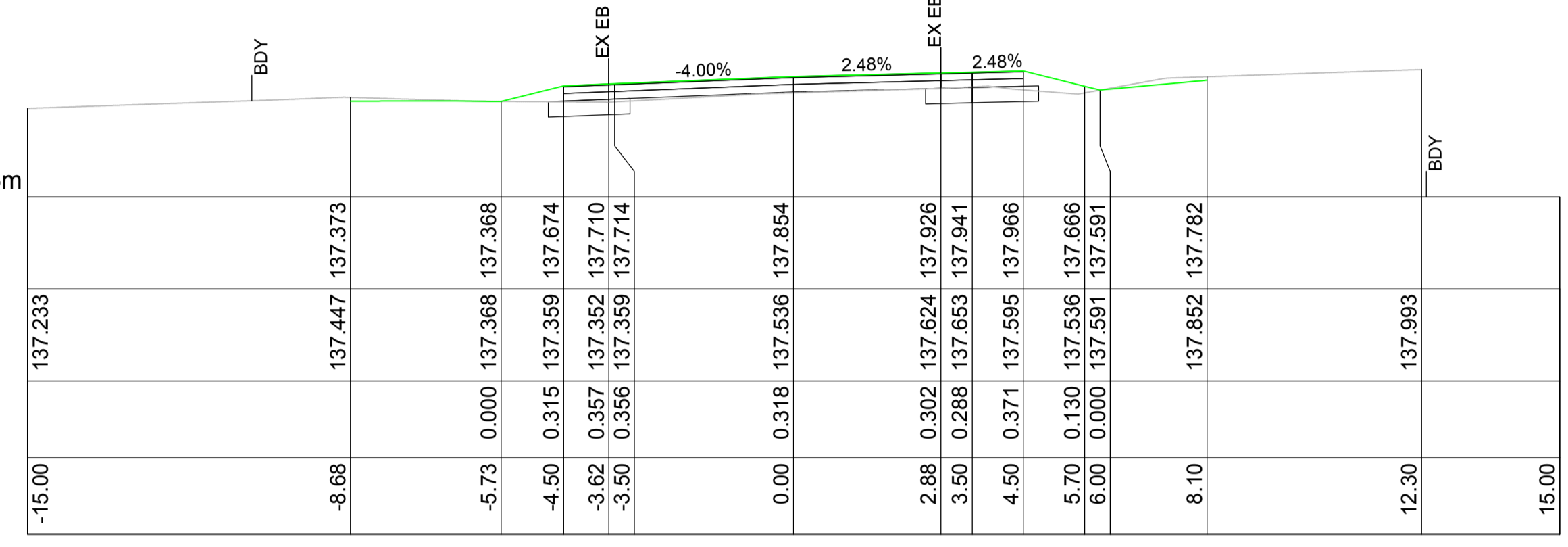
SURVEY:	DELFS LASCELLES	CLIENT	CESSNOCK CITY COUNCIL
DESIGN:	M.M		
DRAWN:	M.M		
CHECKED:	M.M		
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION
APPROVED:	M.M	1:100 (A1)	HORIZ. N/A VERT. N/A

PROJECT	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWING TITLE	CROSS SECTIONS SHEET 47 OF 72
SHEET	61 OF 116 SHEETS

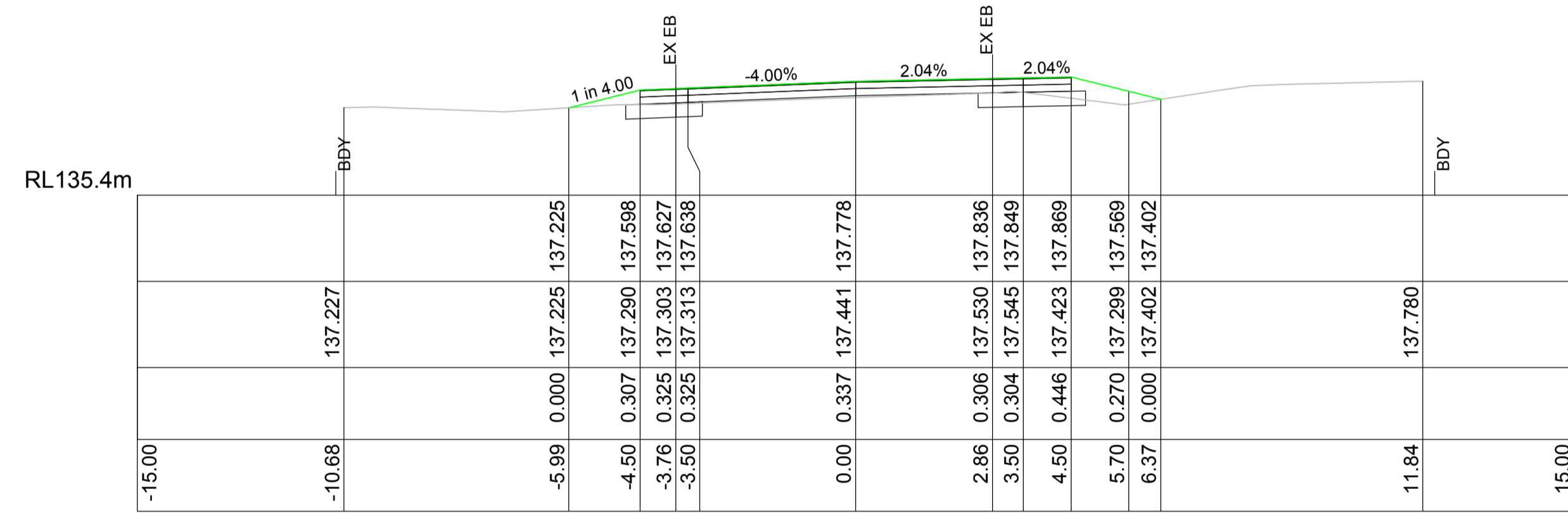
PROJECT No	AL22077	REVISION	1
DWG No	C05-61		
<b>CONSTRUCTION</b>			
2 1 0 2 4 6 1:100 (A1)			



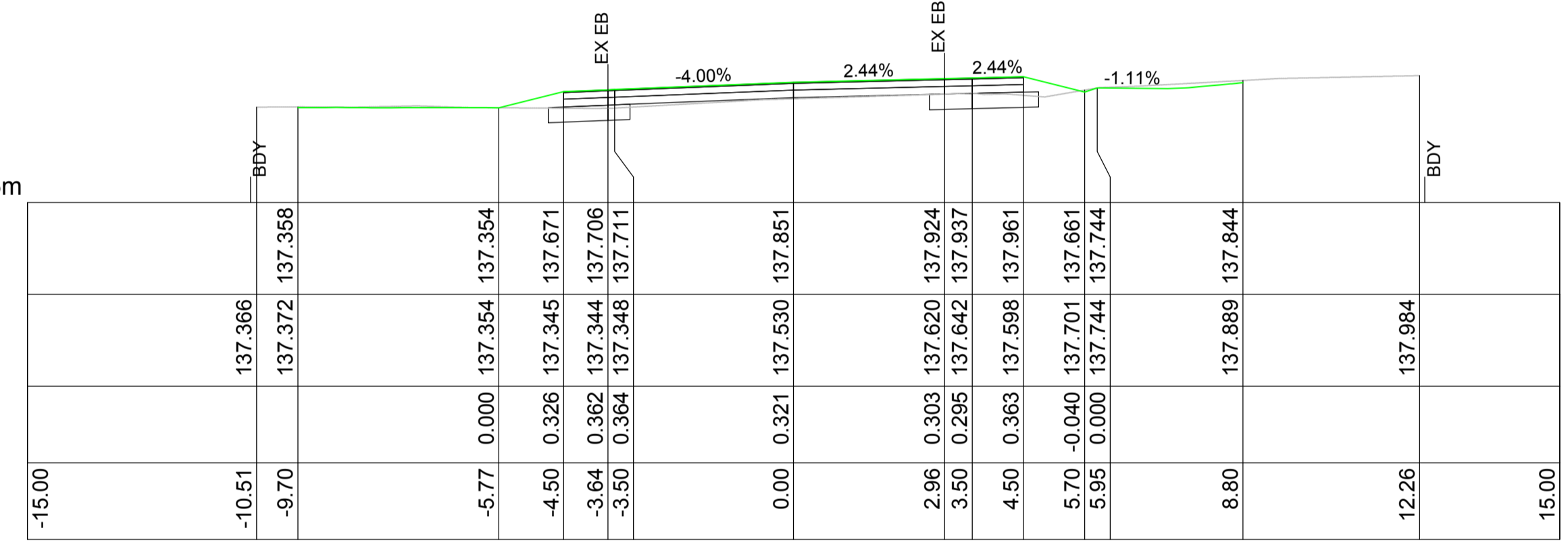
CH 1840.00 m  
SANDY CREEK ROAD



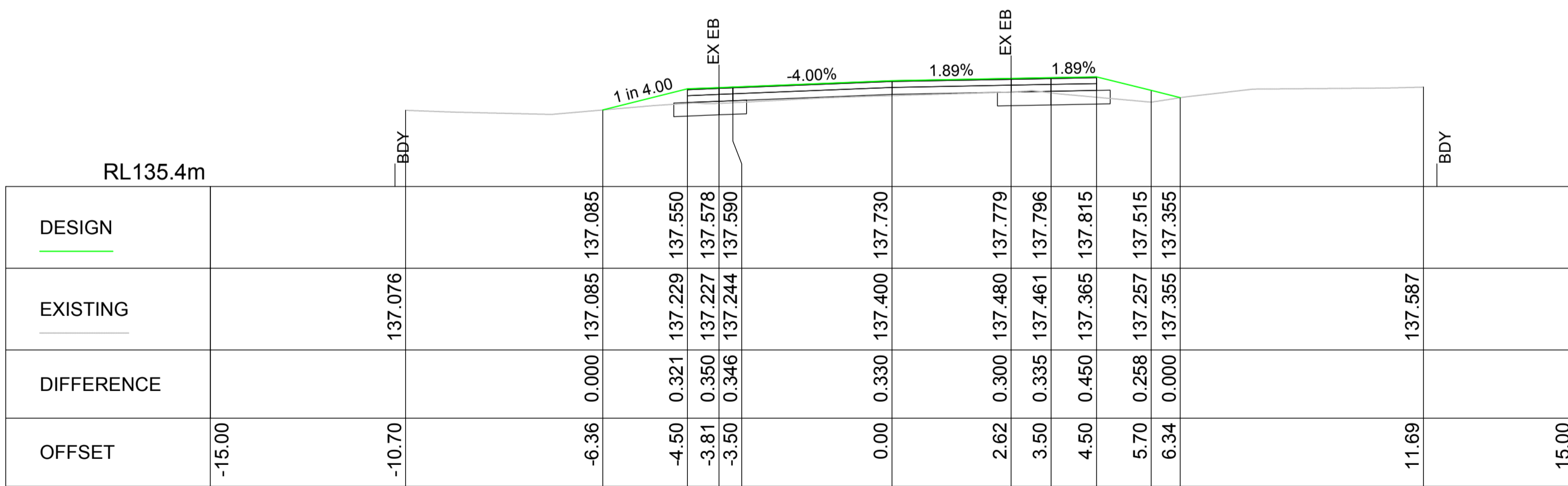
CH 1860.00 m  
SANDY CREEK ROAD



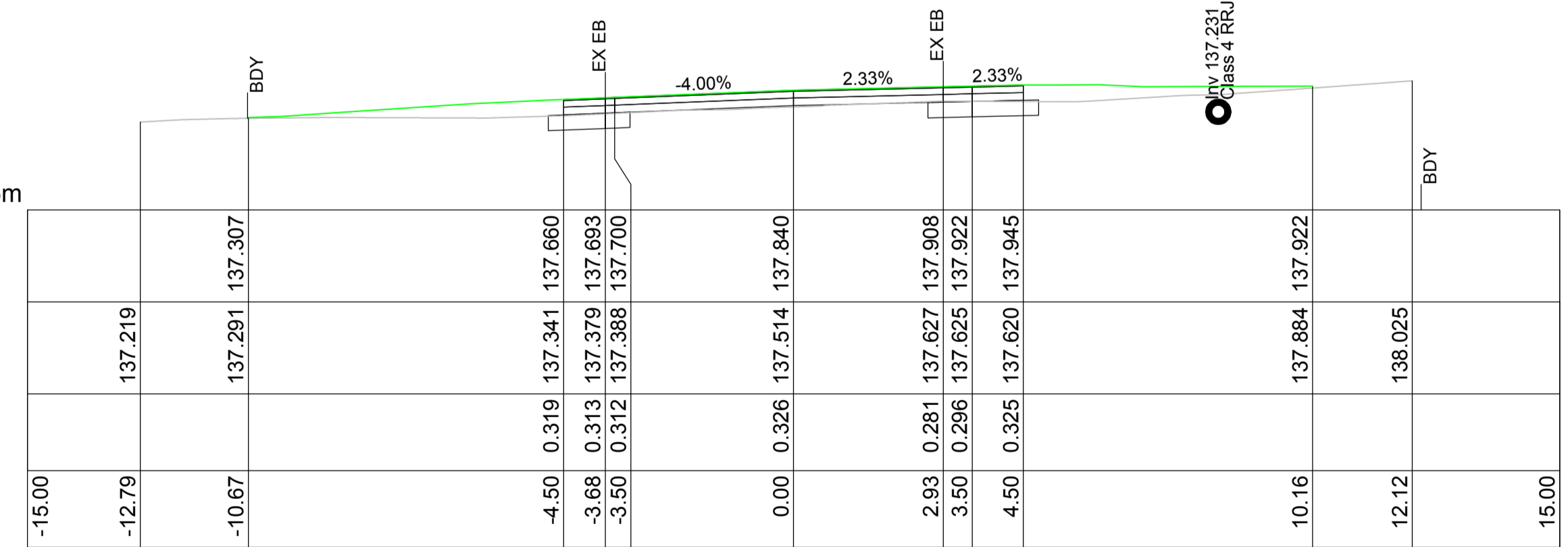
CH 1830.00 m  
SANDY CREEK ROAD



CH 1857.23 m  
SANDY CREEK ROAD



CH 1820.00 m  
SANDY CREEK ROAD



CH 1850.00 m  
SANDY CREEK ROAD

	DESIGN	EXISTING	DIFFERENCE	OFFSET
		137.076		-10.70
		137.085	0.000	-6.36
		137.550	0.321	-4.50
		137.578	0.350	-3.81
		137.590	0.346	-3.50
		137.730	0.330	0.00
		137.779	0.300	2.62
		137.796	0.335	3.50
		137.815	0.450	4.50
		137.515	0.288	5.70
		137.355	0.000	6.34
		137.587		11.69
		15.00		15.00

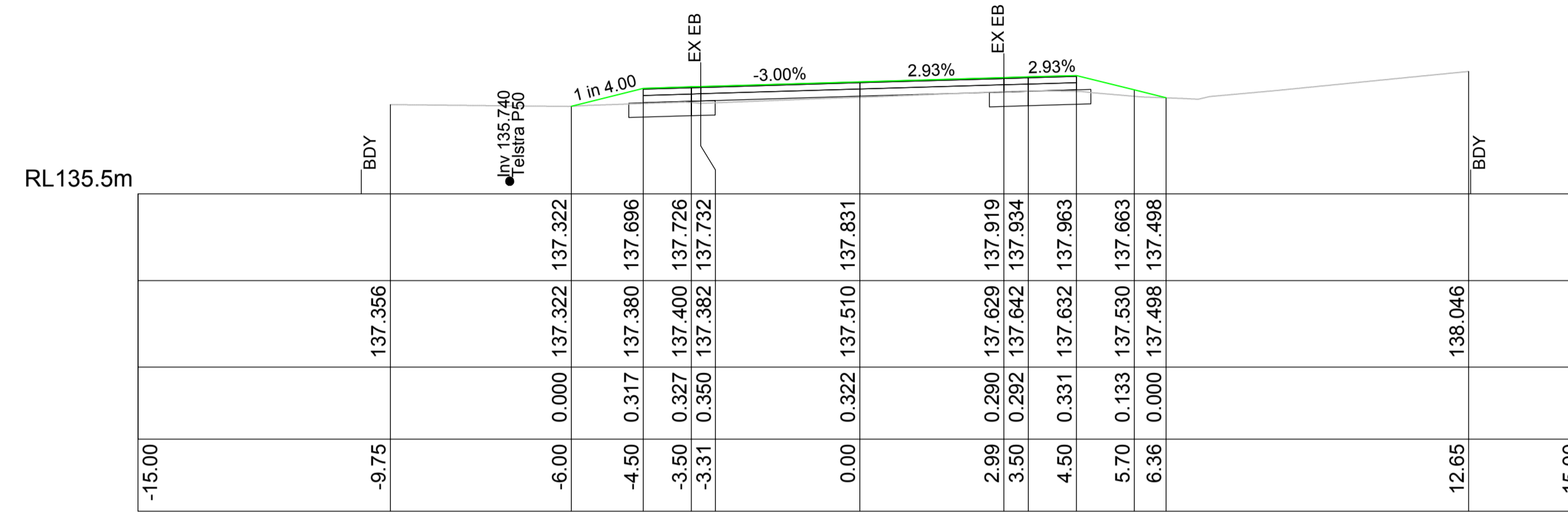
REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

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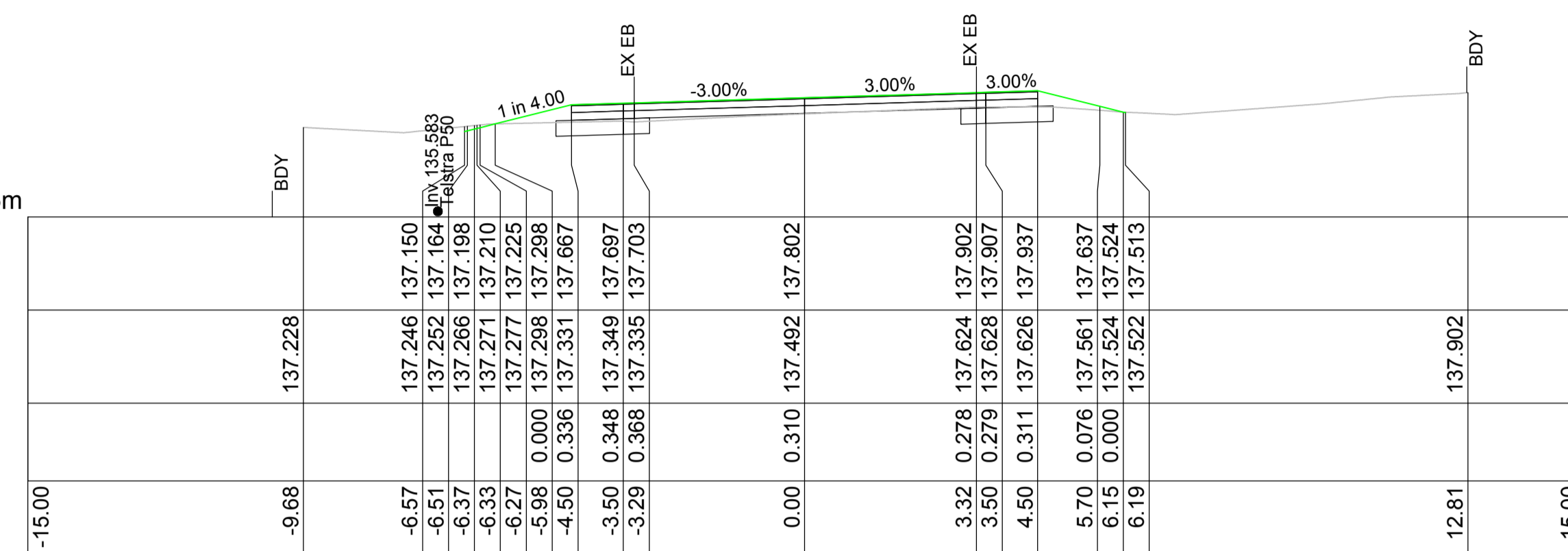
SURVEY: DELFS LASCELLES	CLIENT: CESSNOCK CITY COUNCIL
DESIGN: M.M	
DRAWN: M.M	
CHECKED: M.M	
DATE: 11.08.2023	PLAN: LONGITUDINAL SECTION CROSS SECTION
APPROVED: M.M	HORIZ. N/A HORIZ. 1:100 VERT. N/A VERT. 1:100

PROJECT: LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG  
 DRAWING TITLE: CROSS SECTIONS SHEET 48 OF 72  
 SHEET 62 OF 116 SHEETS

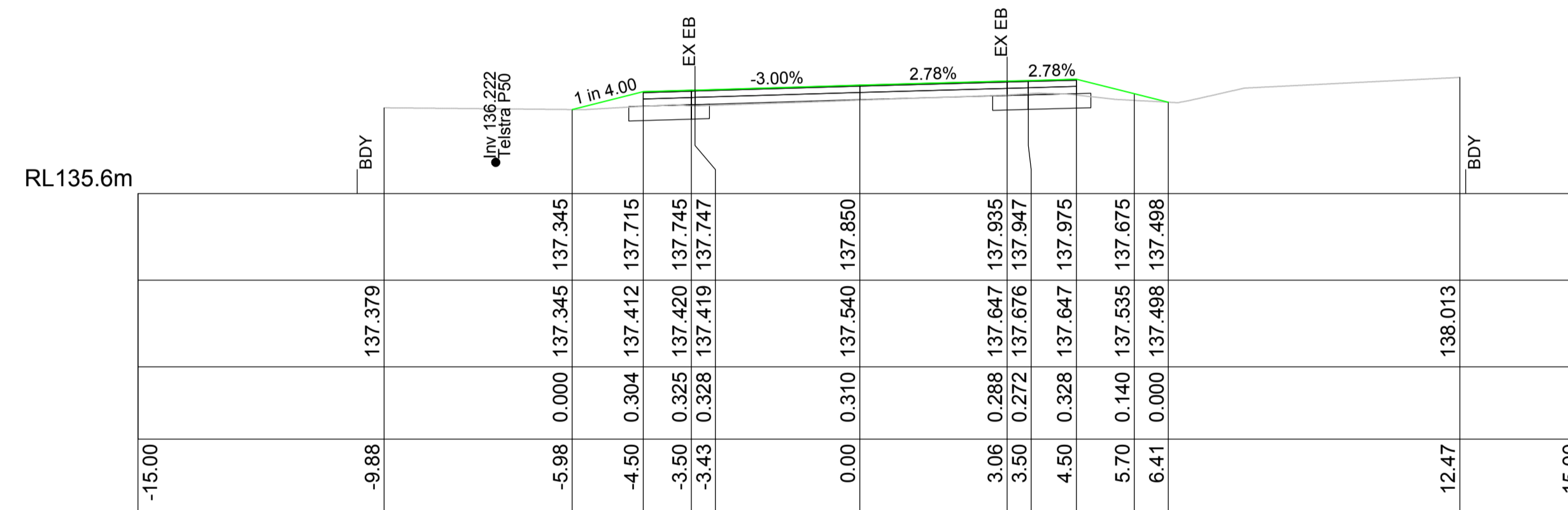
PROJECT No: AL22077  
 DWG No: C05-62  
 REVISION: 1  
 CONSTRUCTION  
 2 1 0 2 4 6  
 1:100 (A1)



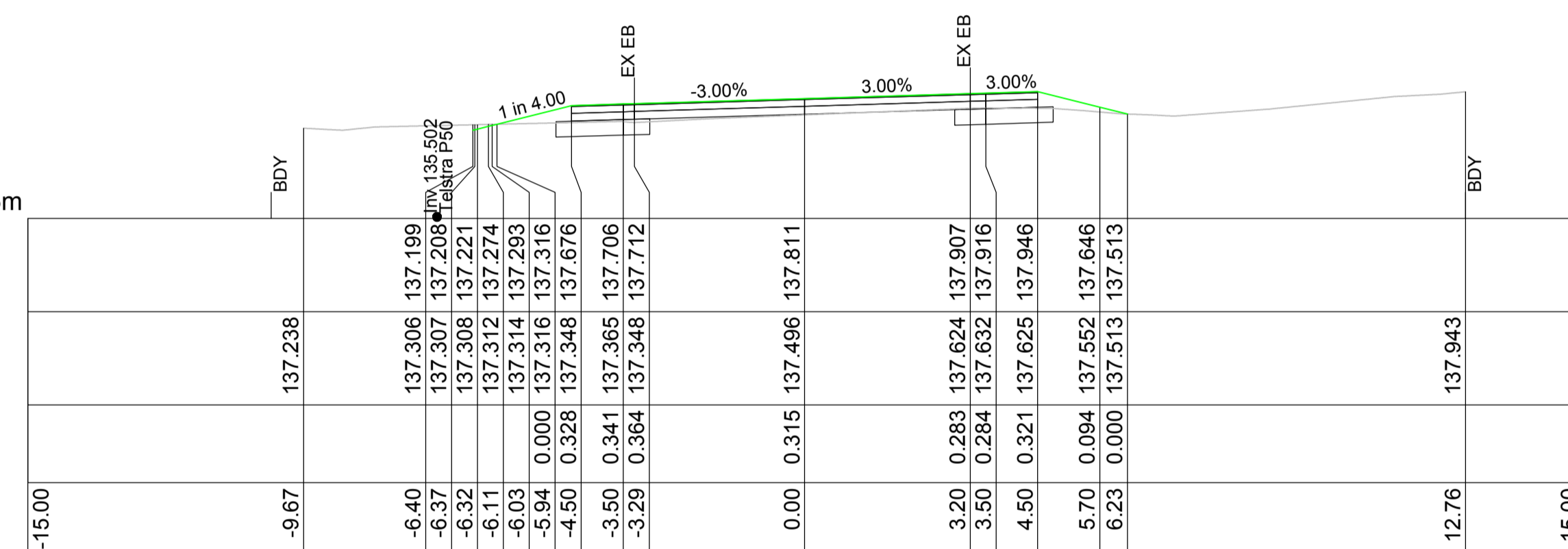
CH 1890.00 m  
SANDY CREEK ROAD



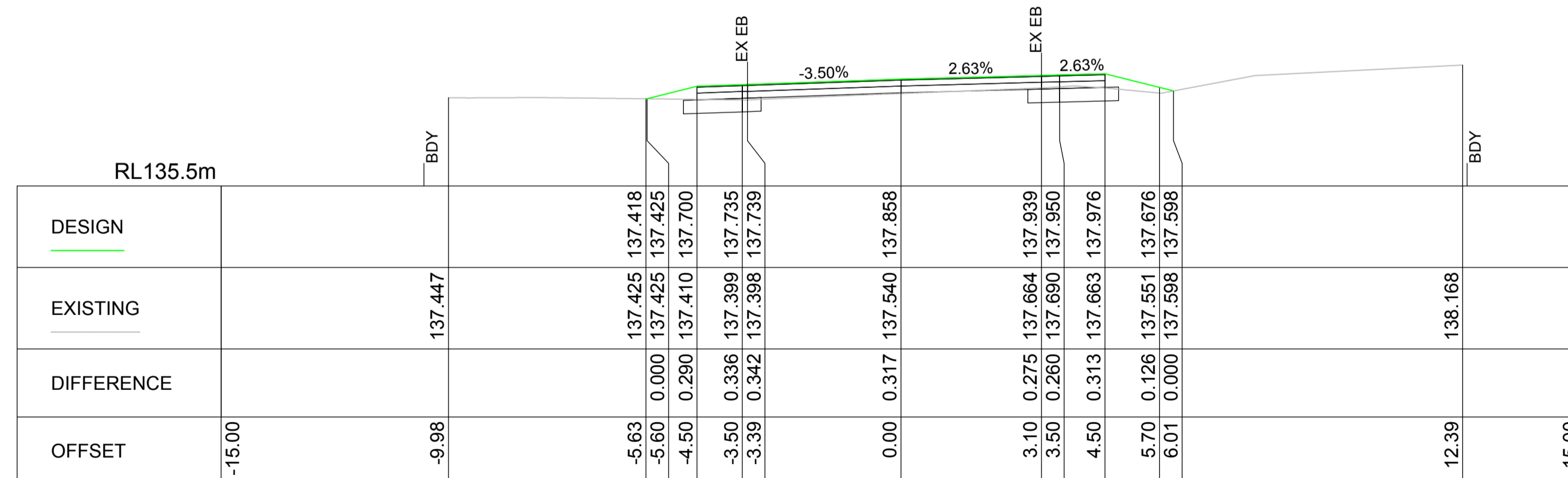
CH 1900.00 m  
SANDY CREEK ROAD



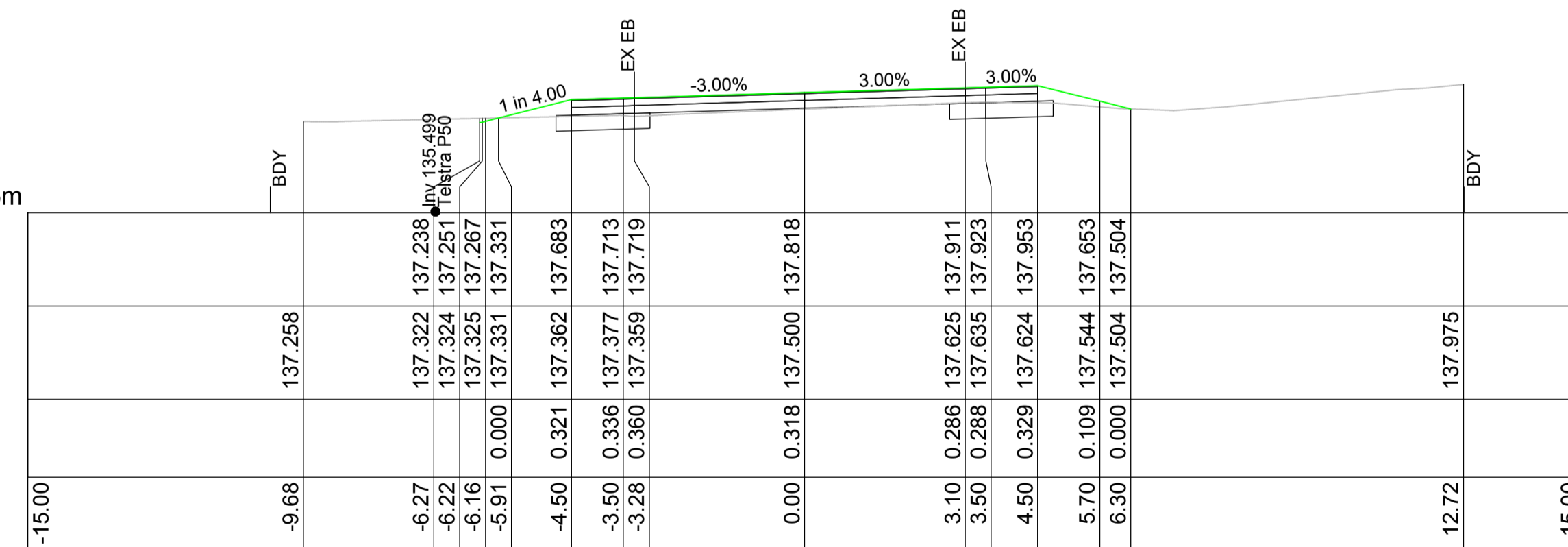
CH 1880.00 m  
SANDY CREEK ROAD



CH 1897.23 m  
SANDY CREEK ROAD



CH 1870.00 m  
SANDY CREEK ROAD



CH 1895.00 m  
SANDY CREEK ROAD

	DESIGN	EXISTING	DIFFERENCE	OFFSET
RL135.5m		137.447		-15.00
		137.425		-9.98
		137.425		-5.63
		137.410		-4.50
		137.399		-3.50
		137.398		-3.39
		137.540		0.00
		137.664		3.10
		137.690		3.50
		137.663		4.50
		137.551		5.70
		137.598		6.01
		138.168		12.39
				15.00

REV	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE

AL Civil Design  
5 Yew Street  
GILLIESTON HEIGHTS NSW 2321  
0466 253 917

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SURVEY:	DELFS LASCELLES	CLIENT	CESSNOCK CITY COUNCIL
DESIGN:	M.M		
DRAWN:	M.M		
CHECKED:	M.M		
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION HORIZ. N/A VERT. N/A
APPROVED:	M.M	CROSS SECTION	HORIZ. 1:100 VERT. 1:100

PROJECT  
**LOCAL ROAD RENEWAL  
 STAGE 1 & STAGE 2  
 SANDY CREEK ROAD, QUORROBOLONG**

DRAWING TITLE  
**CROSS SECTIONS SHEET 49 OF 72**

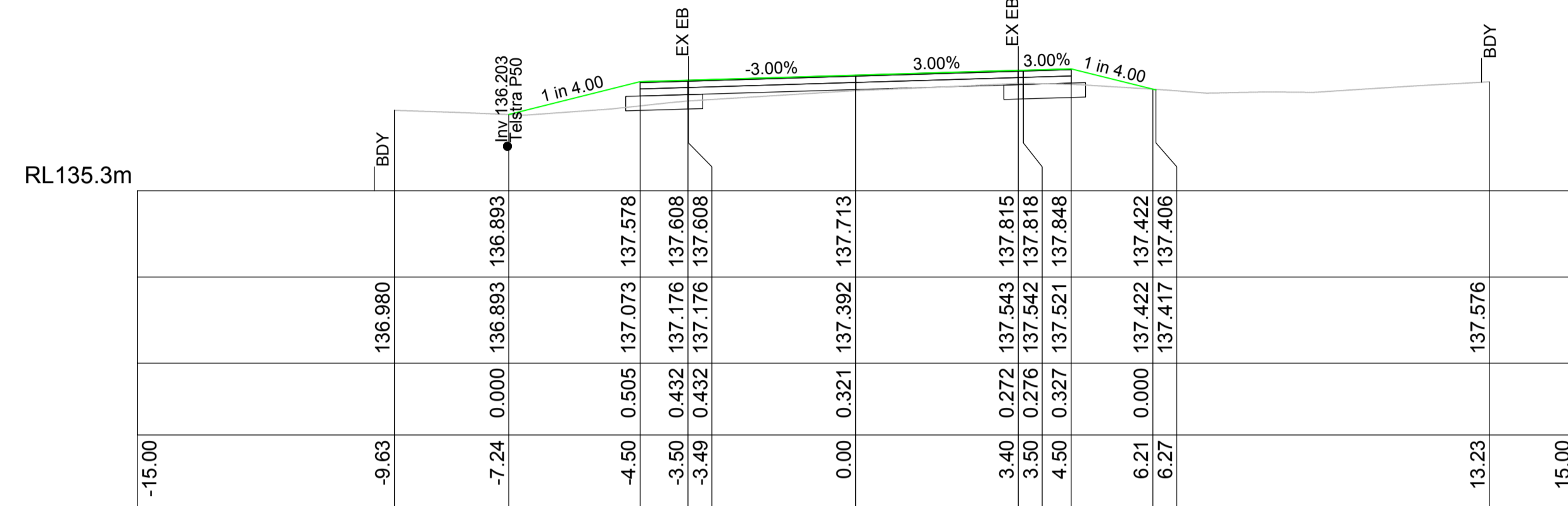
**SHEET 63 OF 116 SHEETS**

PROJECT No  
**AL22077**

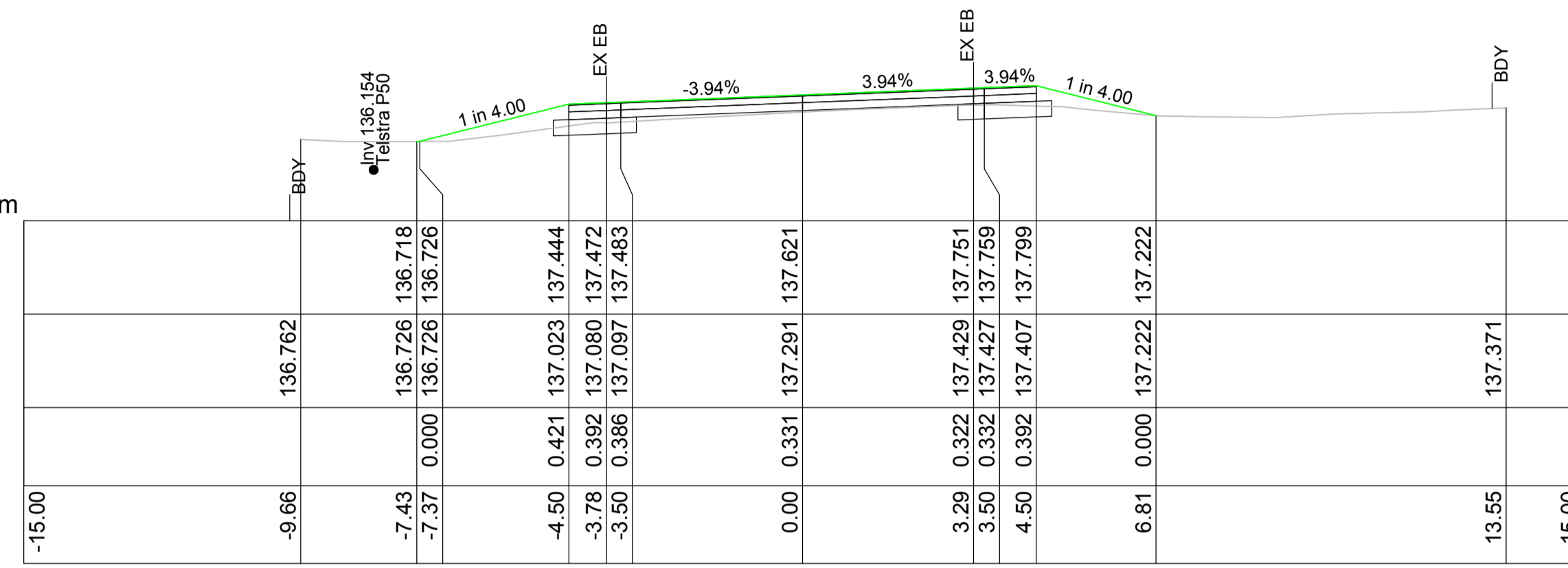
DWG No  
**C05-63**

**CONSTRUCTION**

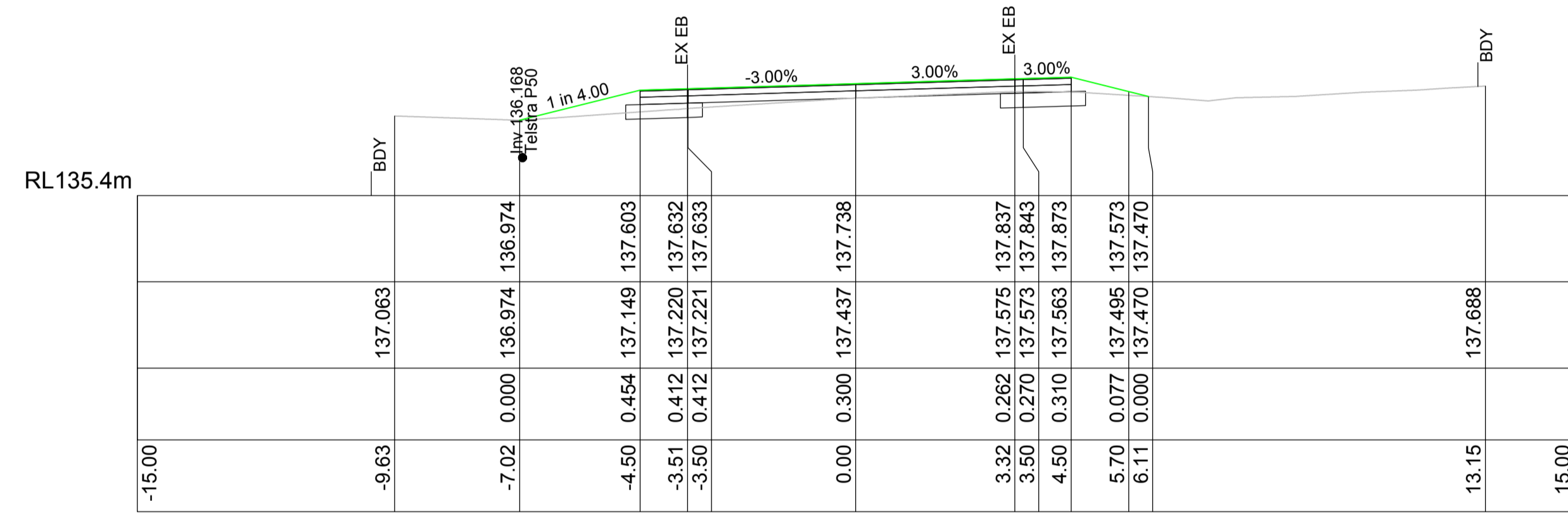
2 1 0 2 4 6  
 1:100 (A1)



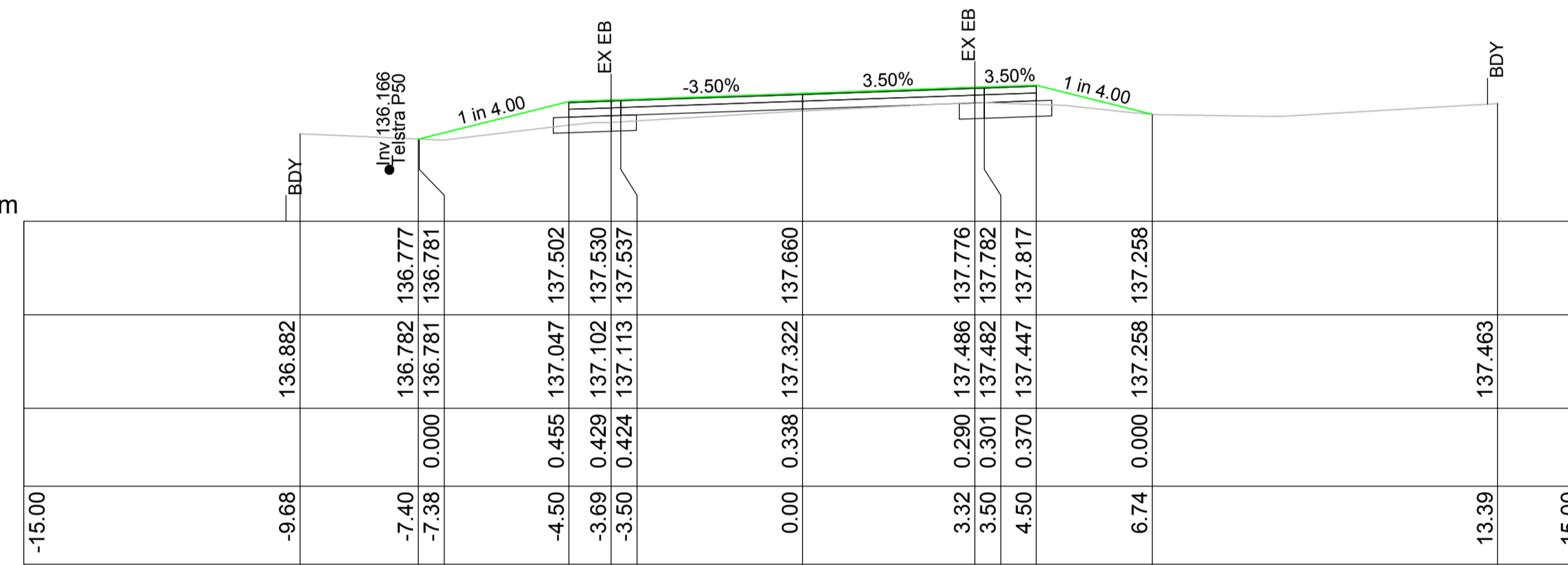
CH 1927.65 m  
SANDY CREEK ROAD



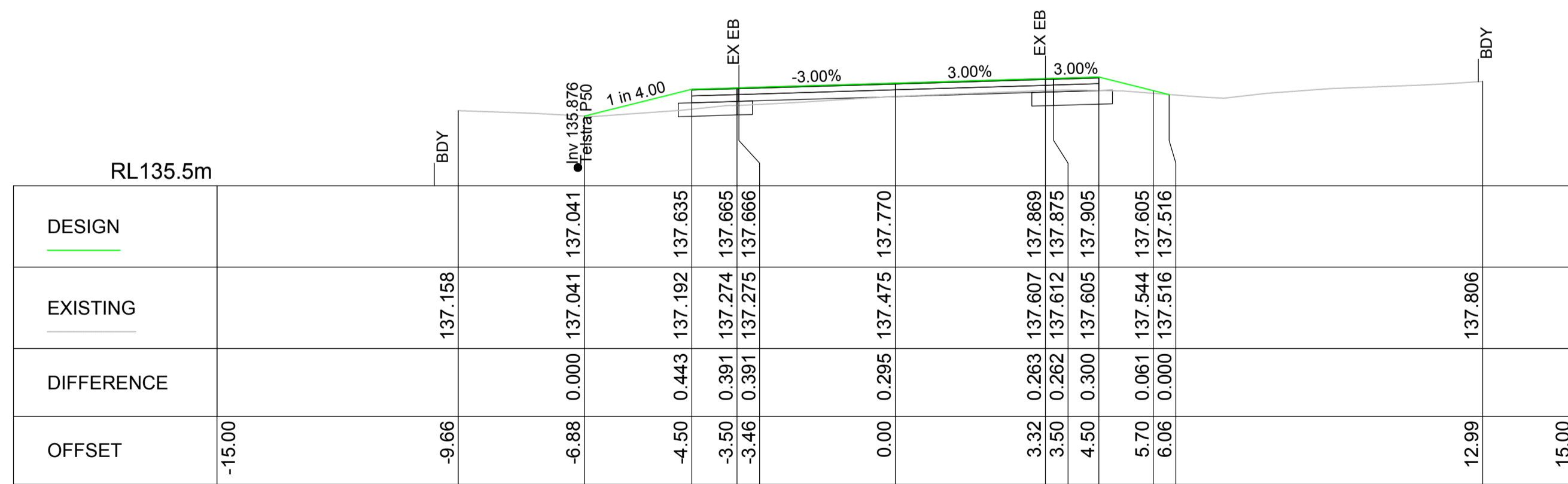
CH 1948.86 m  
SANDY CREEK ROAD



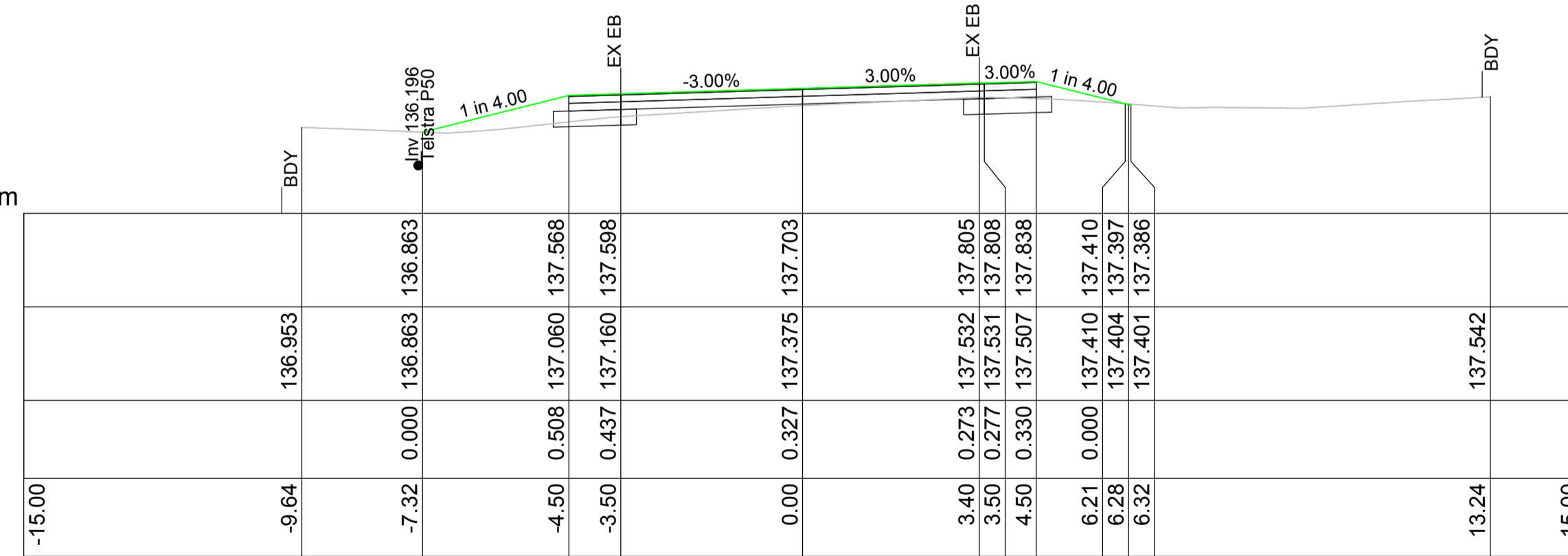
CH 1920.00 m  
SANDY CREEK ROAD



CH 1940.00 m  
SANDY CREEK ROAD



CH 1910.00 m  
SANDY CREEK ROAD



CH 1930.00 m  
SANDY CREEK ROAD

	DESIGN	EXISTING	DIFFERENCE	OFFSET
RL135.5m		137.158		-15.00
BDY				-9.66
PVC	137.041	137.041	0.00	-6.88
1 in 4.00			0.443	-4.50
EX EB	137.635	137.635	0.391	-3.50
-3.00%	137.665	137.665	0.391	-3.46
3.00%	137.666	137.666	0.295	0.00
3.00%	137.770	137.770	0.263	3.32
1 in 4.00	137.869	137.869	0.262	3.50
EX EB	137.875	137.875	0.300	4.50
3.00%	137.905	137.905	0.061	5.70
BDY	137.605	137.605	0.000	6.06
15.00	137.516	137.516		12.99
				15.00

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

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 CIVIL DESIGN  
 GILLIESTON HEIGHTS NSW 2321  
 0466 253 917

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SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M		
DRAWN:	M.M		
CHECKED:	M.M		
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION HORIZ. N/A VERT. N/A
APPROVED:	M.M		CROSS SECTION HORIZ. 1:100 VERT. 1:100

PROJECT  
**LOCAL ROAD RENEWAL  
 STAGE 1 & STAGE 2  
 SANDY CREEK ROAD, QUORROBOLONG**

DRAWING TITLE  
**CROSS SECTIONS SHEET 50 OF 72**

**SHEET 64 OF 116 SHEETS**

PROJECT No  
**AL22077**

DWG No  
**C05-64**

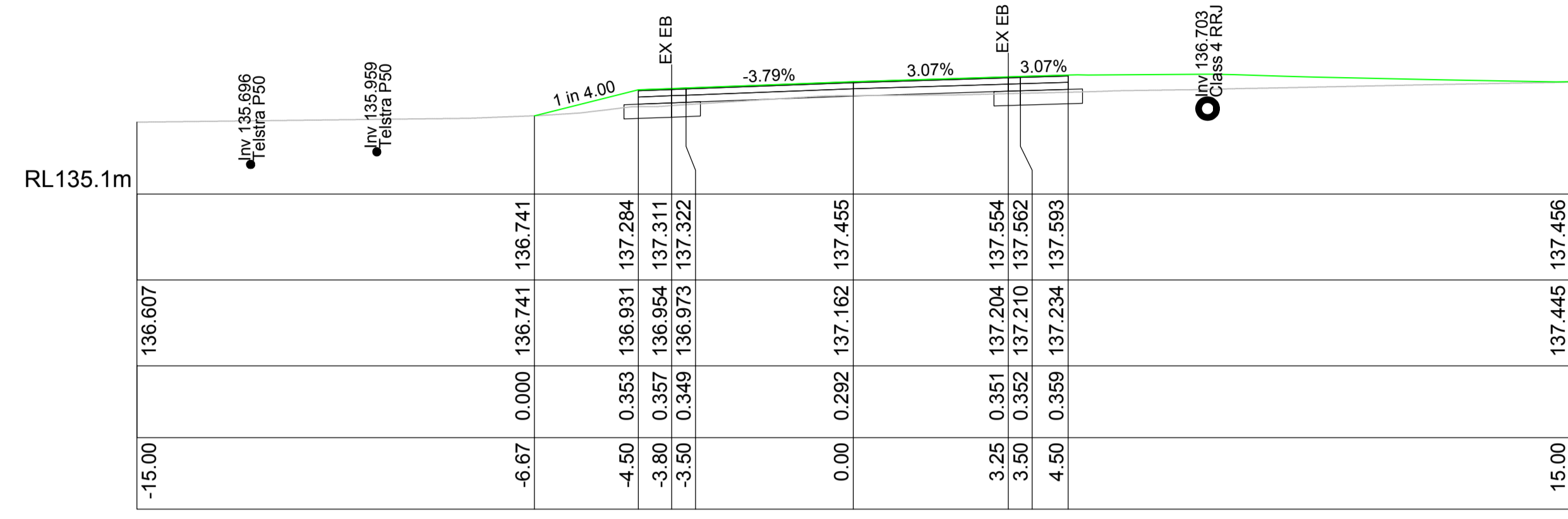
**CONSTRUCTION**

REVISION  
**1**

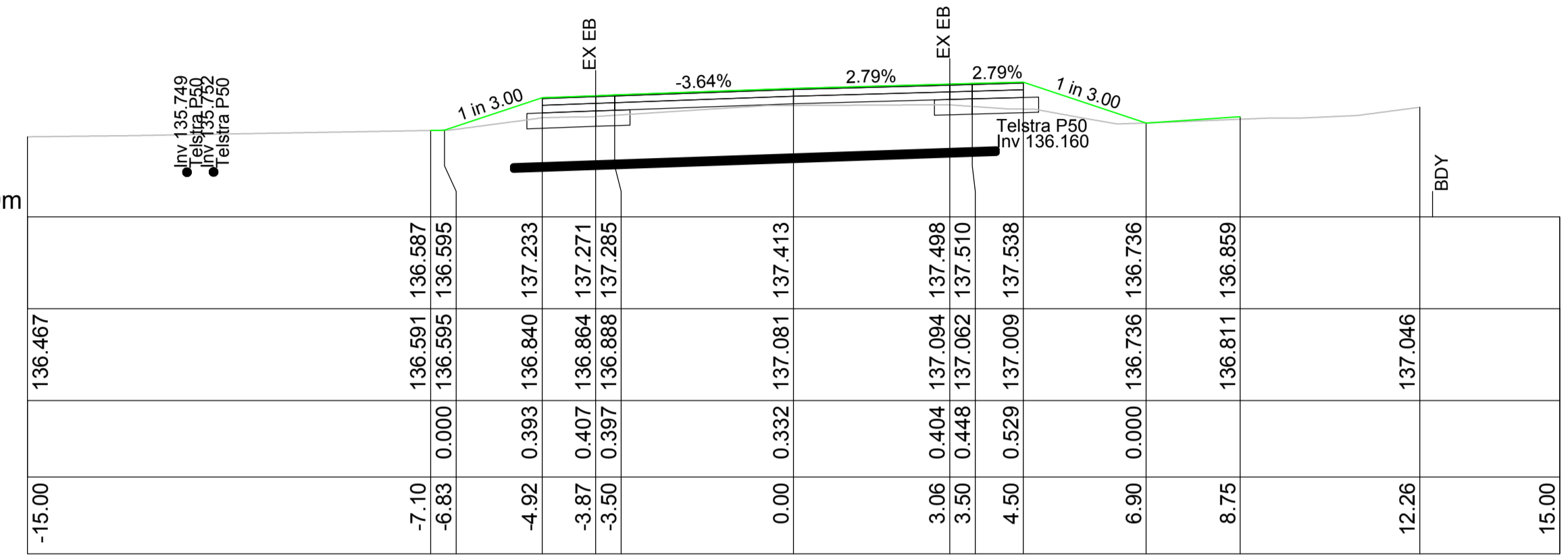
2 1 0 2 4 6  
 1:100 (A1)



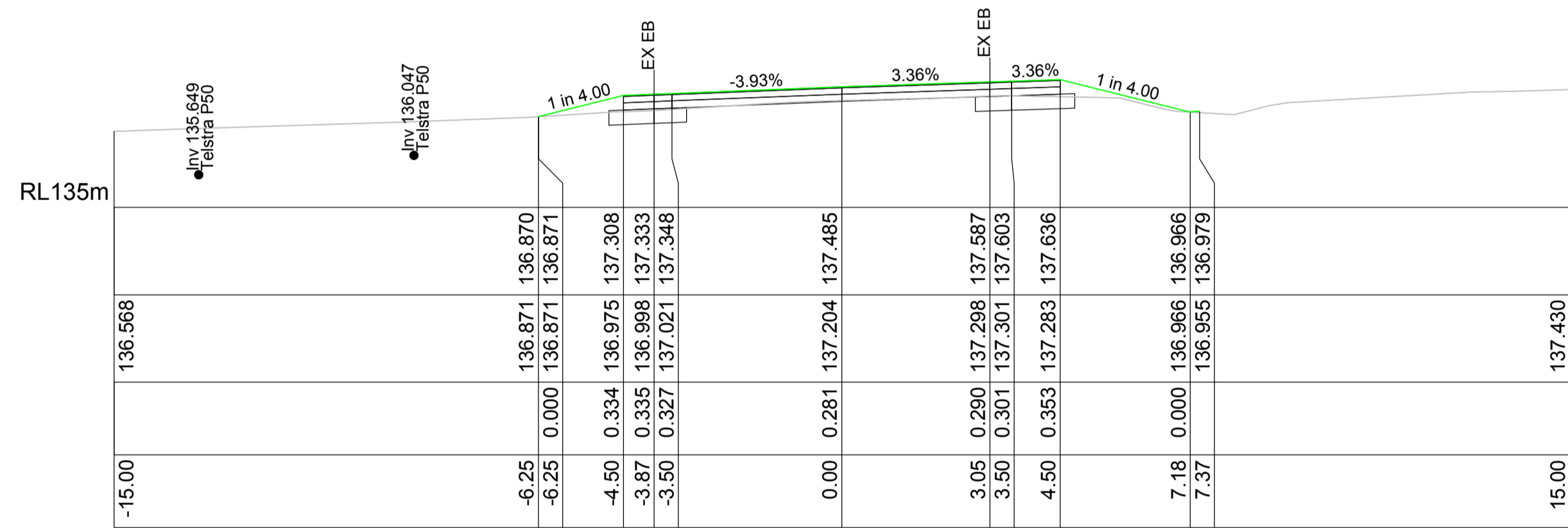




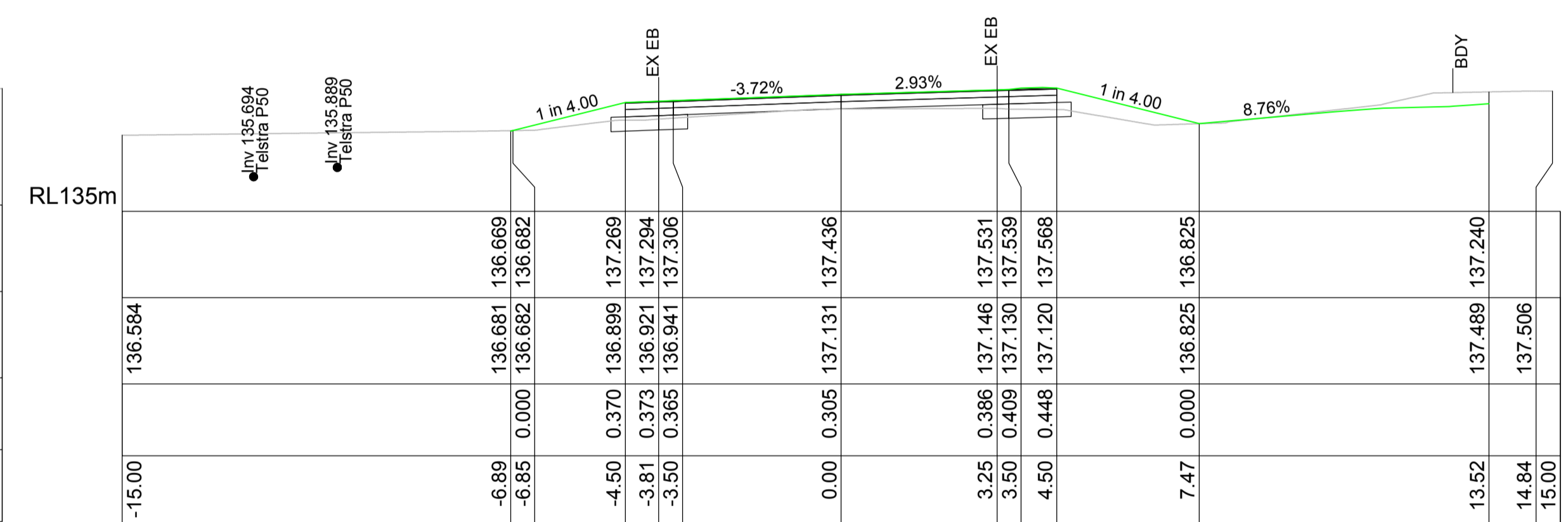
CH 2010.00 m SANDY CREEK ROAD



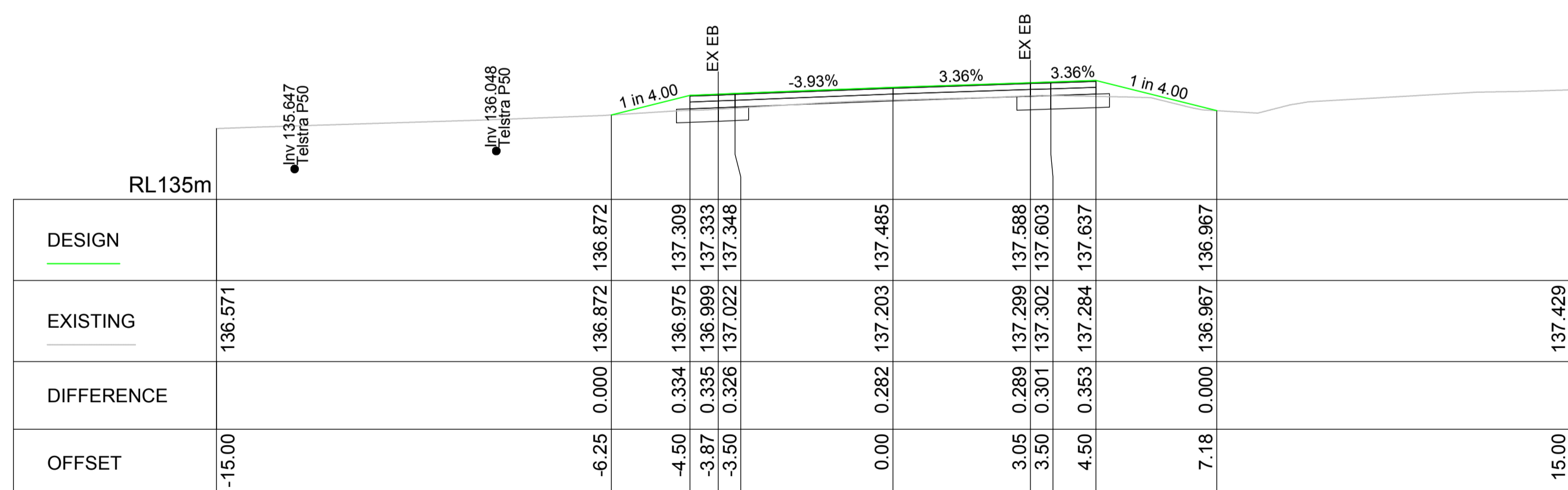
CH 2020.00 m SANDY CREEK ROAD



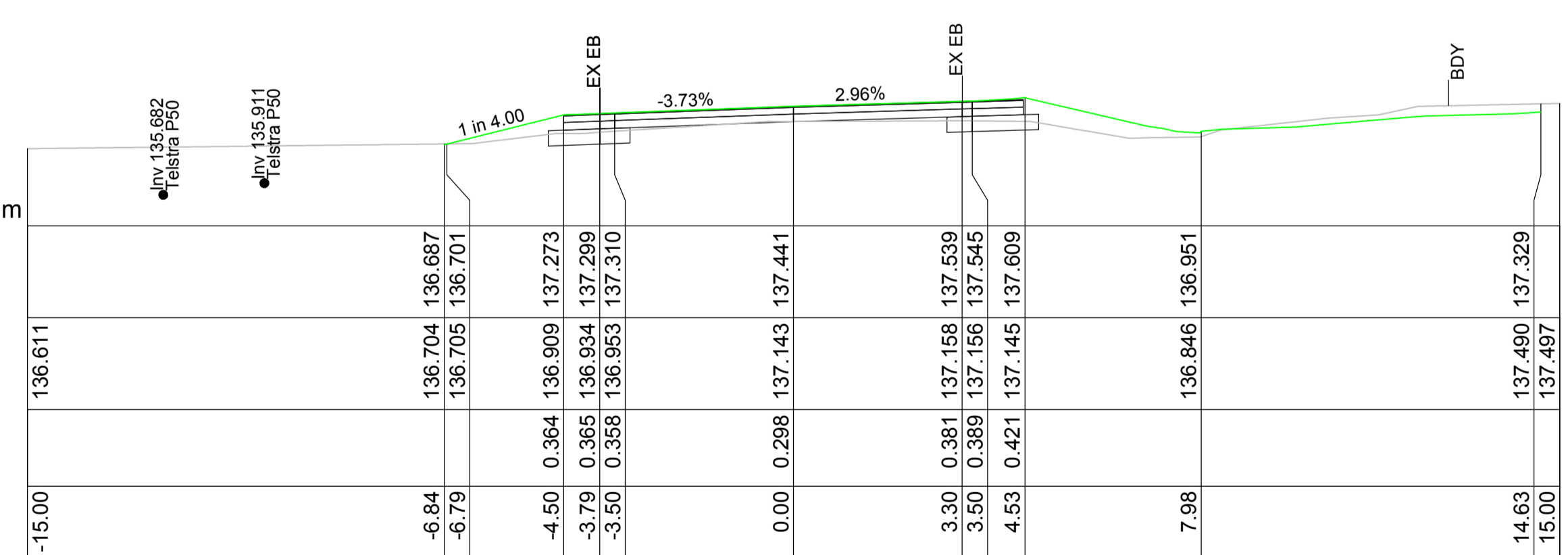
CH 2000.00 m SANDY CREEK ROAD



CH 2014.80 m SANDY CREEK ROAD



CH 1999.80 m SANDY CREEK ROAD



CH 2013.60 m SANDY CREEK ROAD

DESIGN																
EXISTING																
DIFFERENCE																
OFFSET																

1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE



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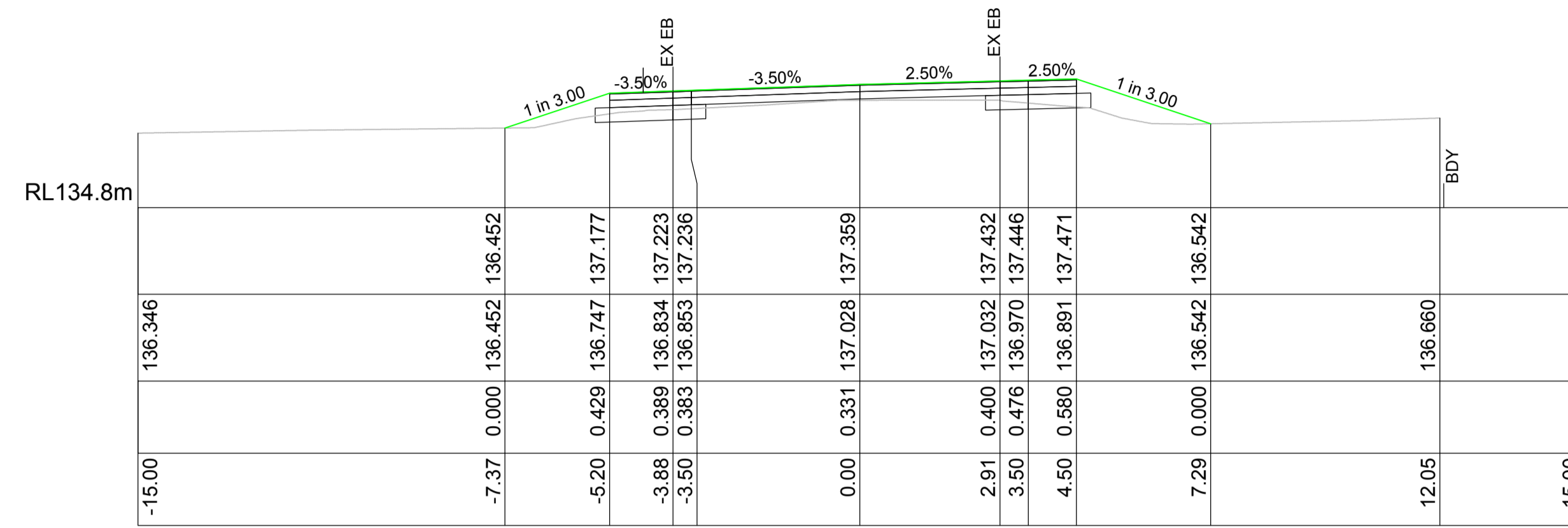
SURVEY:	DELFS LASCELLES	CLIENT	CESSNOCK CITY COUNCIL
DESIGN:	M.M		
DRAWN:	M.M		
CHECKED:	M.M		
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION CROSS SECTION
APPROVED:	M.M	1:100 (A1)	HORIZ. N/A HORIZ. 1:100 VERT. N/A VERT. 1:100

PROJECT  
**LOCAL ROAD RENEWAL  
 STAGE 1 & STAGE 2  
 SANDY CREEK ROAD, QUORROBOLONG**

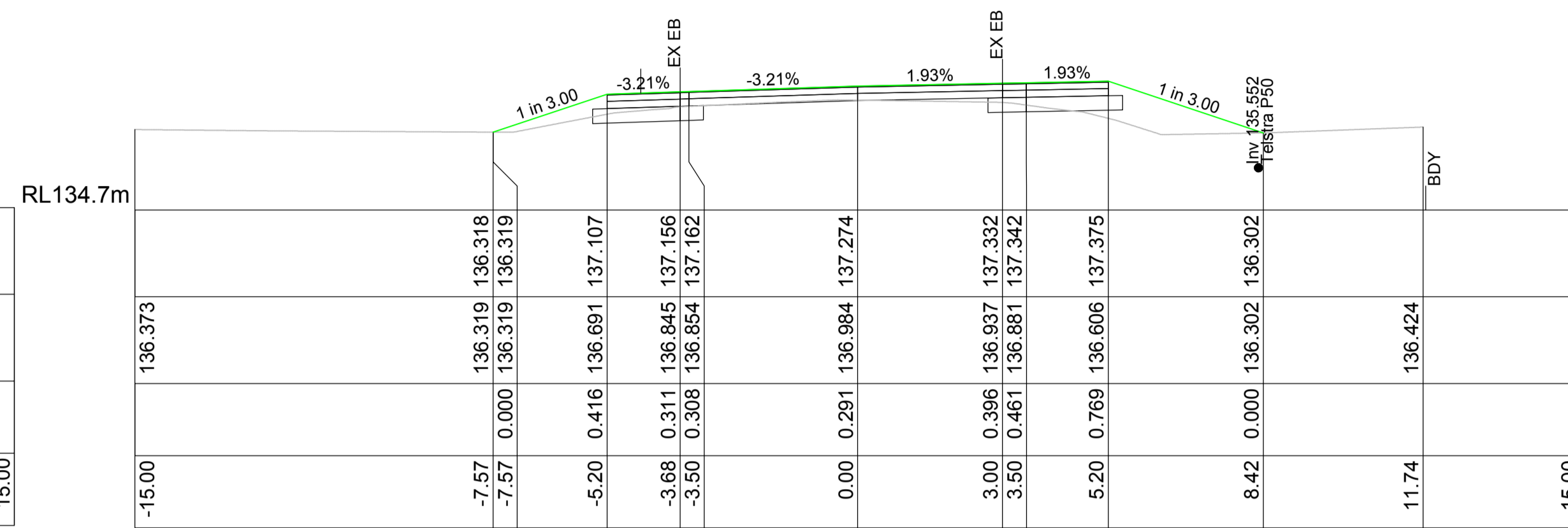
DRAWING TITLE  
**CROSS SECTIONS SHEET 52 OF 72**

**SHEET 66 OF 116 SHEETS**

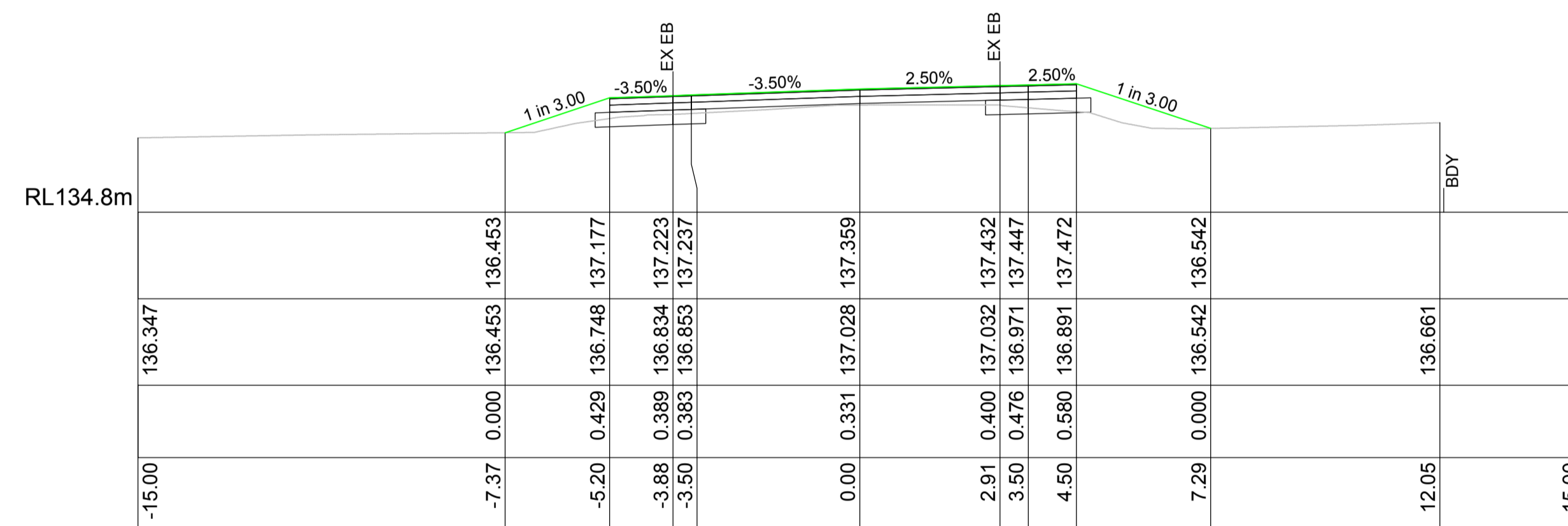
PROJECT No	AL22077	REVISION	1
DWG No	C05-66		
<b>CONSTRUCTION</b>			



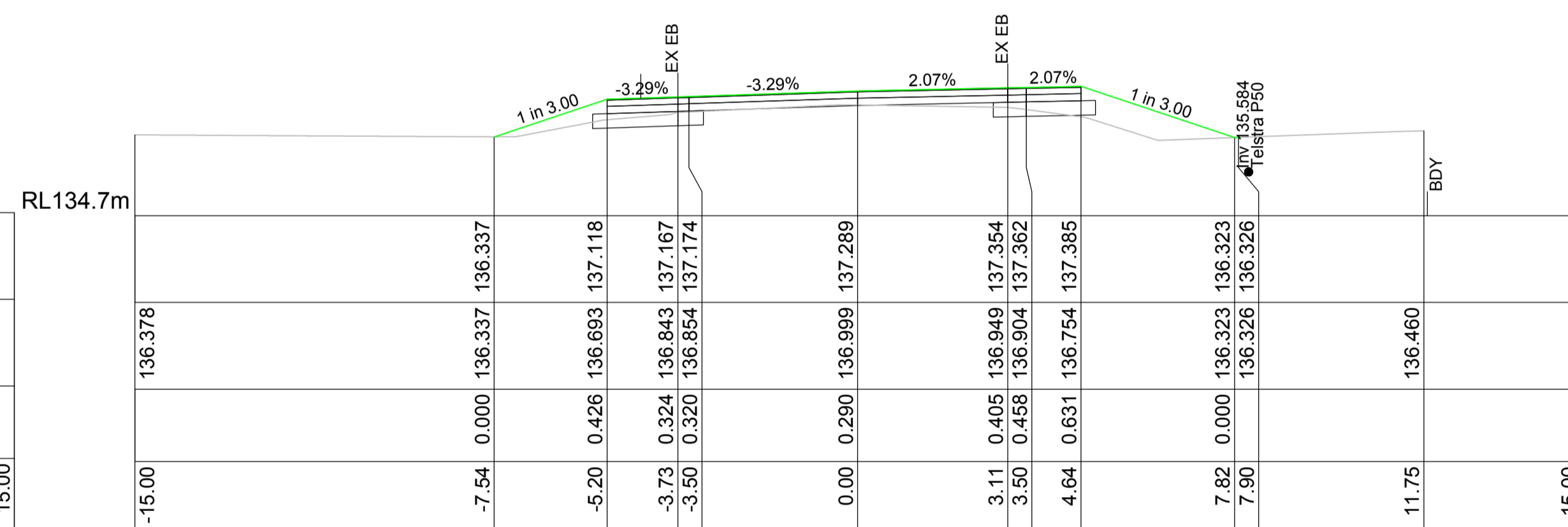
CH 2030.00 m  
SANDY CREEK ROAD



CH 2050.00 m  
SANDY CREEK ROAD



CH 2029.97 m  
SANDY CREEK ROAD



CH 2044.97 m  
SANDY CREEK ROAD

	DESIGN	EXISTING	DIFFERENCE	OFFSET
RL134.8m				
	136.348	136.348	0.000	-15.00
	136.455	136.455	0.000	-7.37
	136.749	136.749	0.429	-5.20
	137.224	136.833	0.390	-3.89
	137.237	136.853	0.384	-3.50
	137.360		0.332	0.00
	137.433	137.033	0.400	2.91
	137.448	136.972	0.476	3.50
	137.473	136.893	0.580	4.50
	136.544	136.544	0.000	7.29
	136.664	136.664	0.000	12.06
15.00				15.00

CH 2029.80 m  
SANDY CREEK ROAD

	DESIGN	EXISTING	DIFFERENCE	OFFSET
RL134.8m				
	136.333	136.333	0.000	-15.00
	136.365	136.365	0.000	-7.50
	137.134	136.702	0.431	-5.20
	137.181	136.843	0.337	-3.80
	137.191	136.858	0.332	-3.50
	137.308		0.301	0.00
	137.375	136.980	0.394	3.00
	137.386	136.932	0.453	3.50
	137.408	136.817	0.591	4.50
	136.410	136.410	0.000	7.49
	136.519	136.519	0.000	11.81
15.00				15.00

CH 2040.00 m  
SANDY CREEK ROAD

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

AL Civil Design  
5 Yew Street  
GILLIESTON HEIGHTS NSW 2321  
0466 253 917

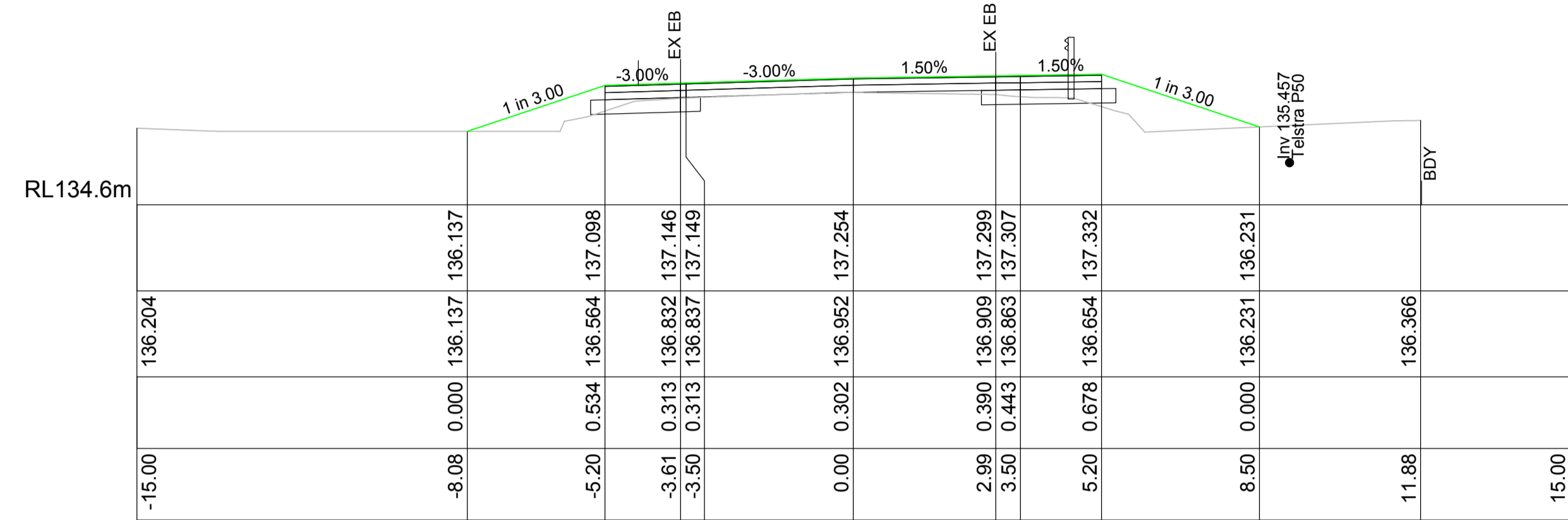
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SURVEY:	DELFS LASCELLES
DESIGN:	M.M
DRAWN:	M.M
CHECKED:	M.M
DATE:	11.08.2023
APPROVED:	M.M

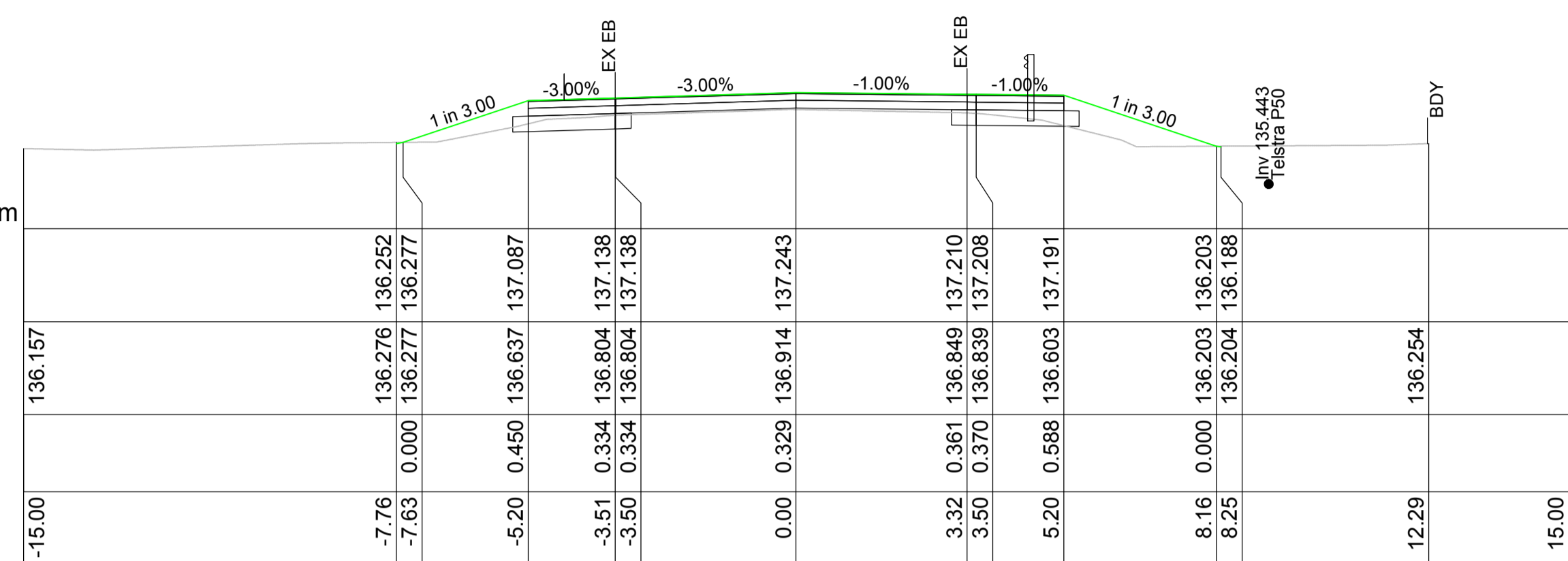
CLIENT	CESSNOCK CITY COUNCIL	
PLAN:	LONGITUDINAL SECTION	CROSS SECTION
1:100 (A1)	HORIZ. N/A	HORIZ. 1:100
	VERT. N/A	VERT. 1:100

PROJECT	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWING TITLE	CROSS SECTIONS SHEET 53 OF 72
SHEET 67 OF 116 SHEETS	

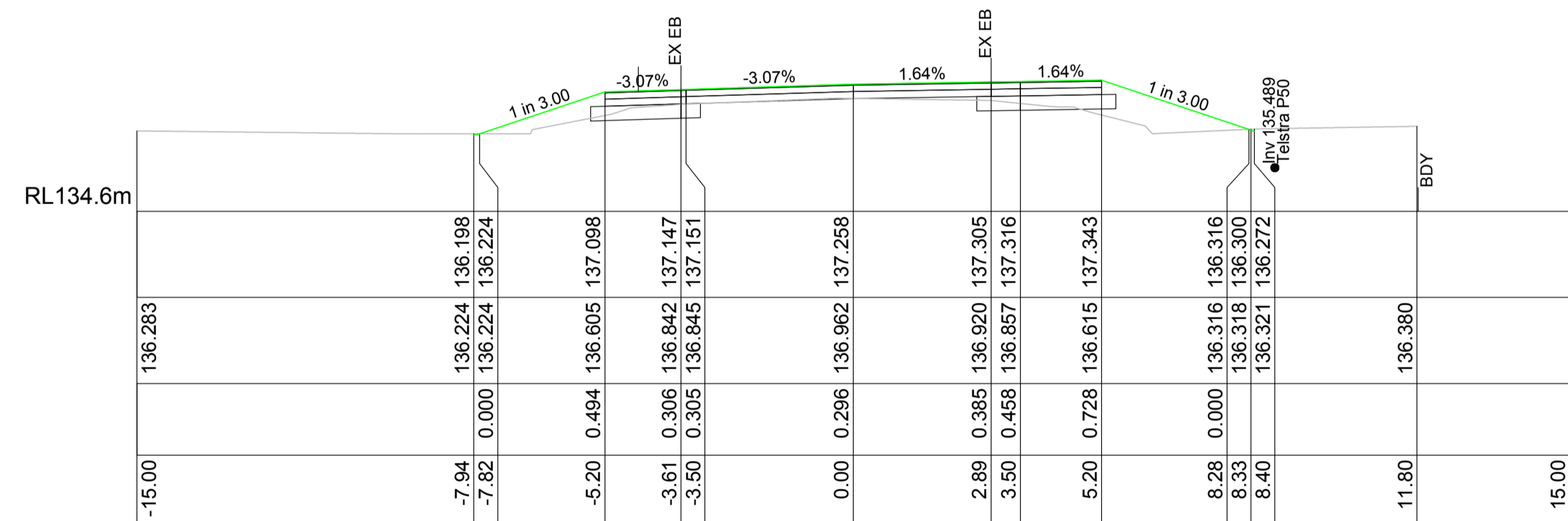
PROJECT No	AL22077	REVISION	1
DWG No	C05-67		
<b>CONSTRUCTION</b>			
 1:100 (A1)			



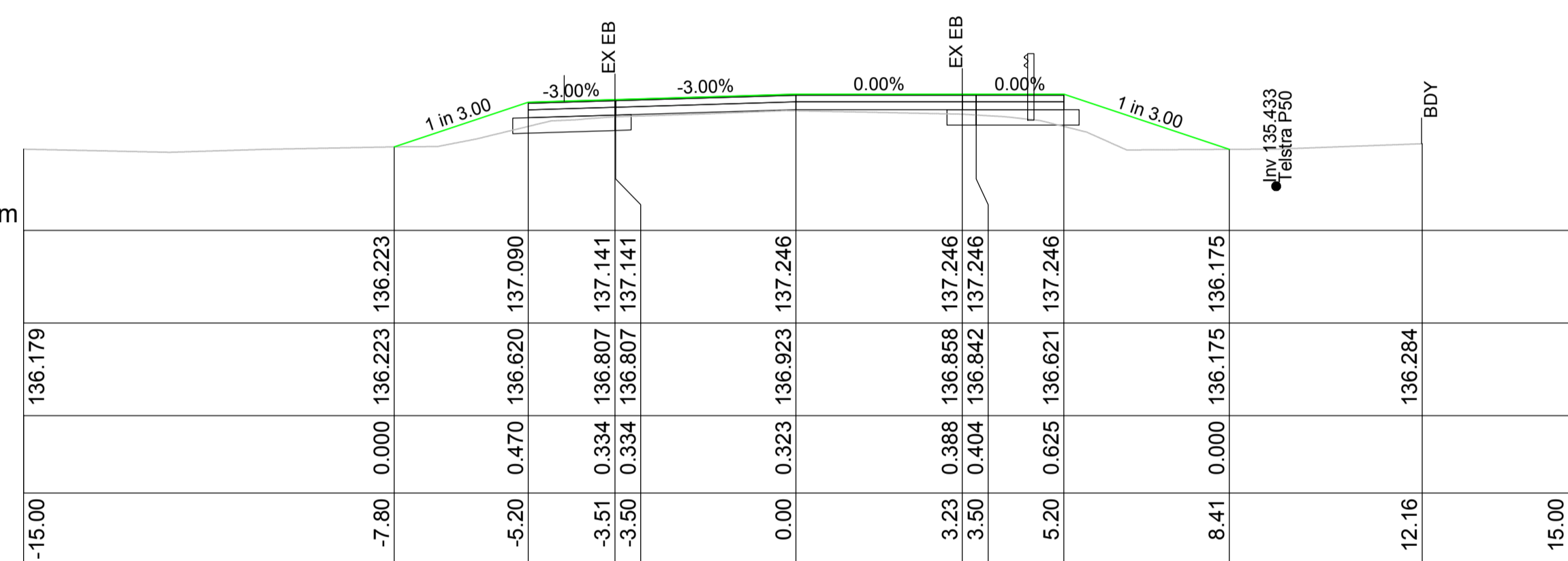
CH 2065.00 m  
SANDY CREEK ROAD



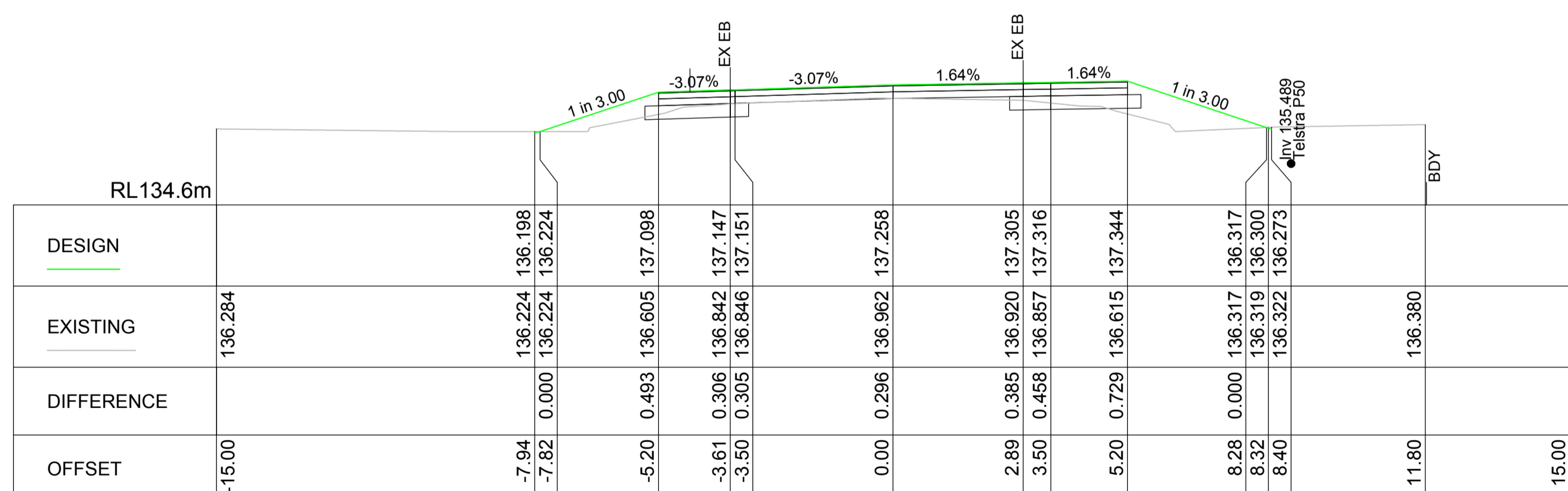
CH 2078.35 m  
SANDY CREEK ROAD



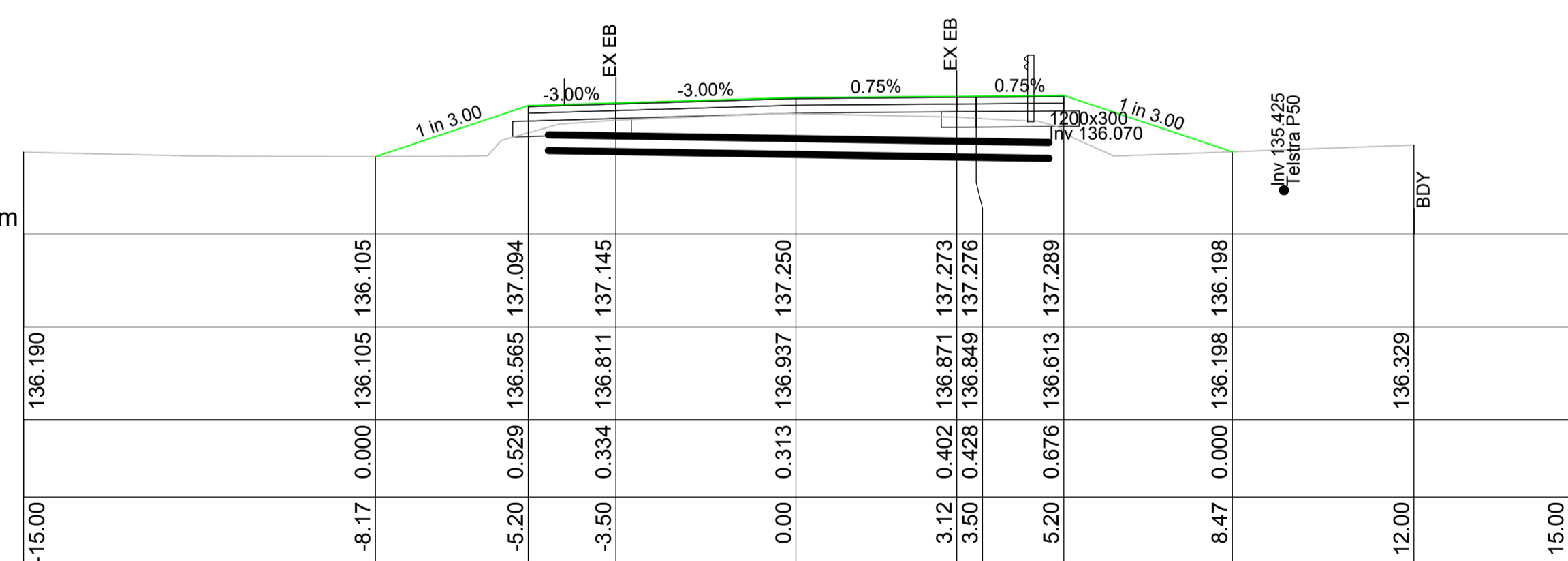
CH 2060.00 m  
SANDY CREEK ROAD



CH 2075.00 m  
SANDY CREEK ROAD



CH 2059.97 m  
SANDY CREEK ROAD



CH 2070.00 m  
SANDY CREEK ROAD

	DESIGN	EXISTING	DIFFERENCE	OFFSET
	136.284	136.284	0.000	-15.00
	136.224	136.224	0.000	-7.94
	136.605	136.605	0.493	-5.20
	136.842	136.842	0.306	-3.61
	136.846	136.846	0.305	-3.50
	136.962	136.962	0.296	0.00
	137.305	137.305	0.385	2.89
	137.316	137.316	0.458	3.50
	137.344	137.344	0.729	5.20
	136.317	136.317	0.000	8.28
	136.300	136.300	0.319	8.32
	136.273	136.273	0.322	8.40
	136.380	136.380	0.000	11.80
	15.00	15.00	0.000	15.00

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

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0466 253 917

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SURVEY:	DELFS LASCELLES
DESIGN:	M.M
DRAWN:	M.M
CHECKED:	M.M
DATE:	11.08.2023
APPROVED:	M.M

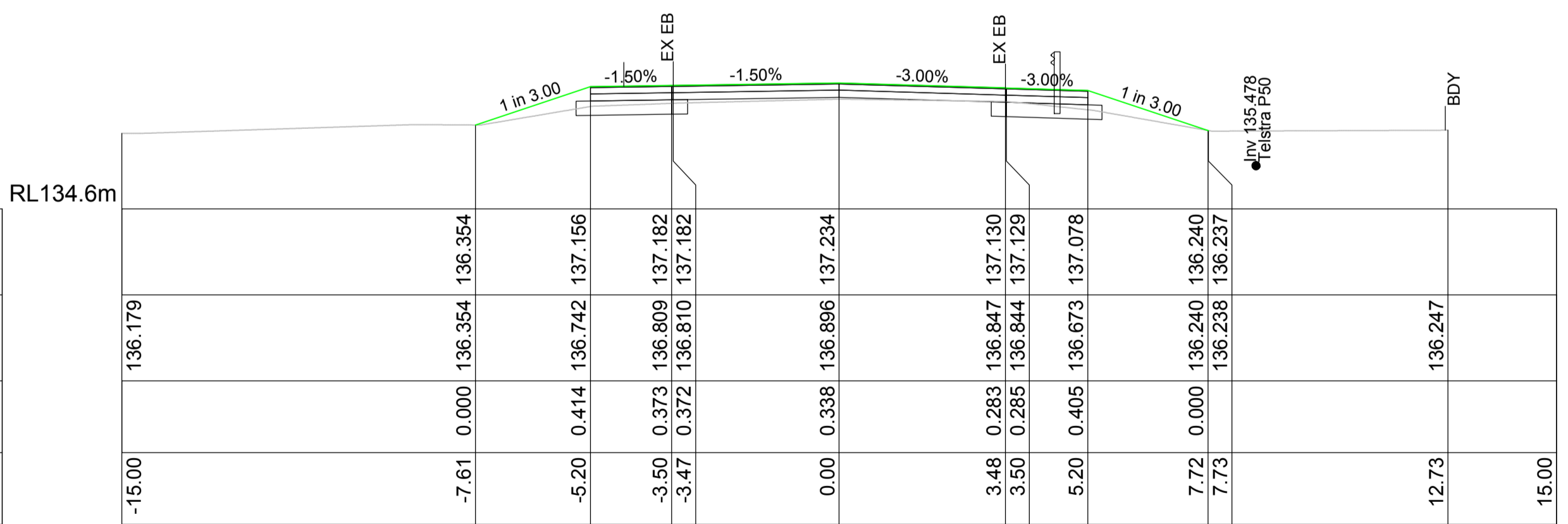
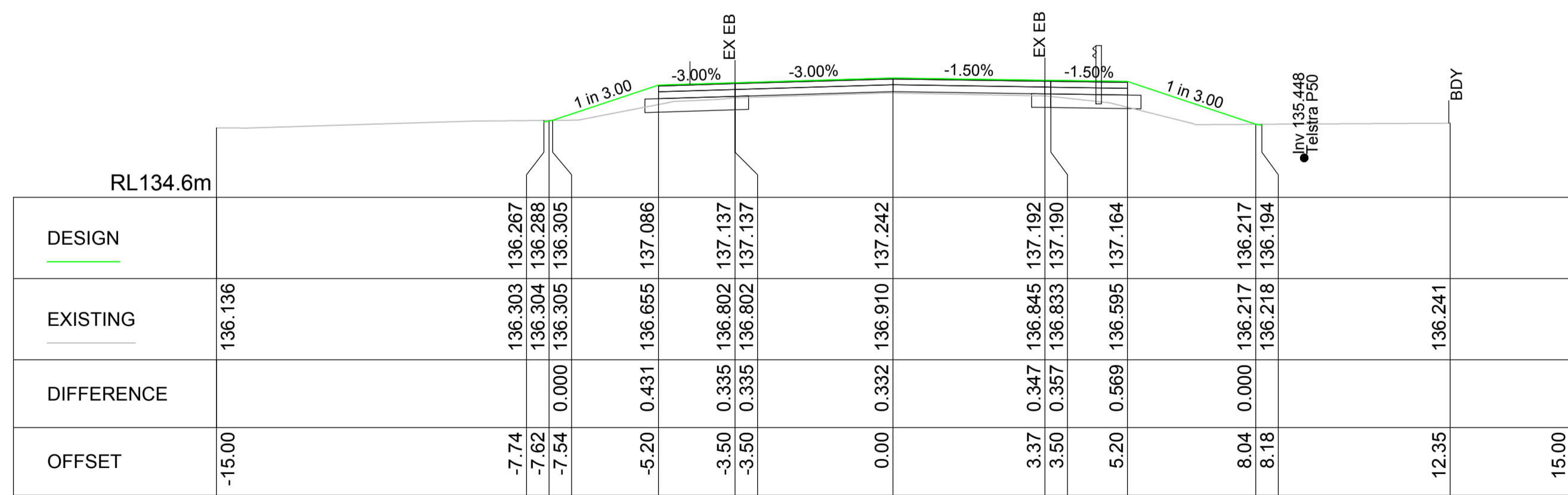
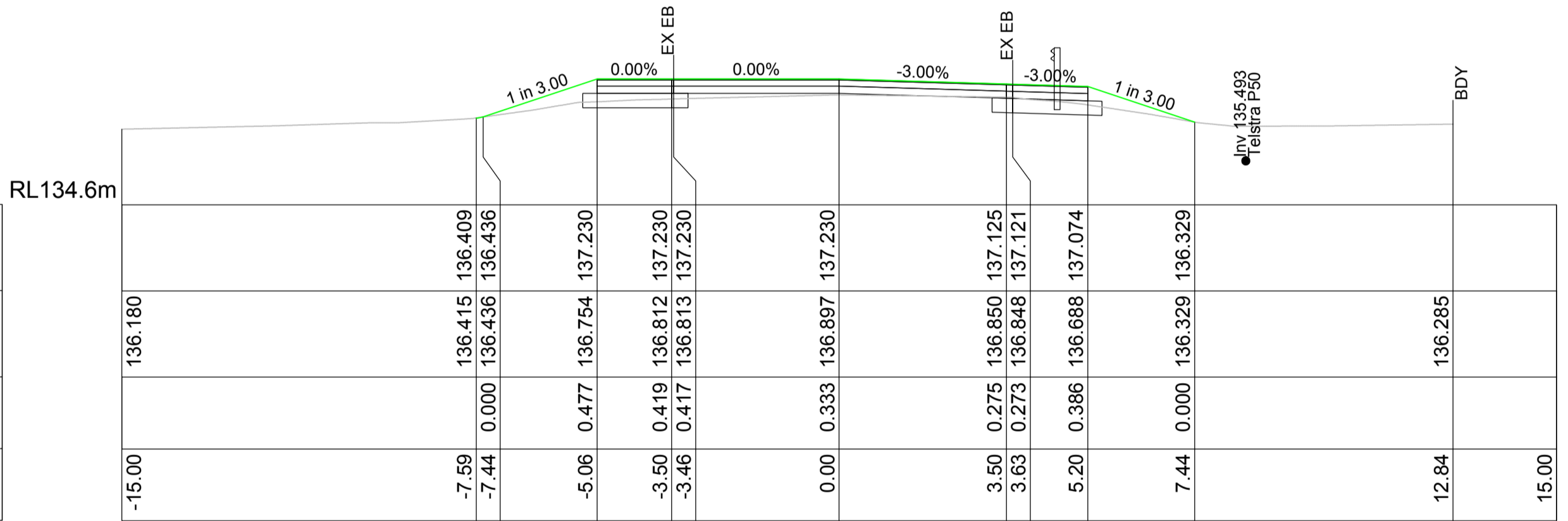
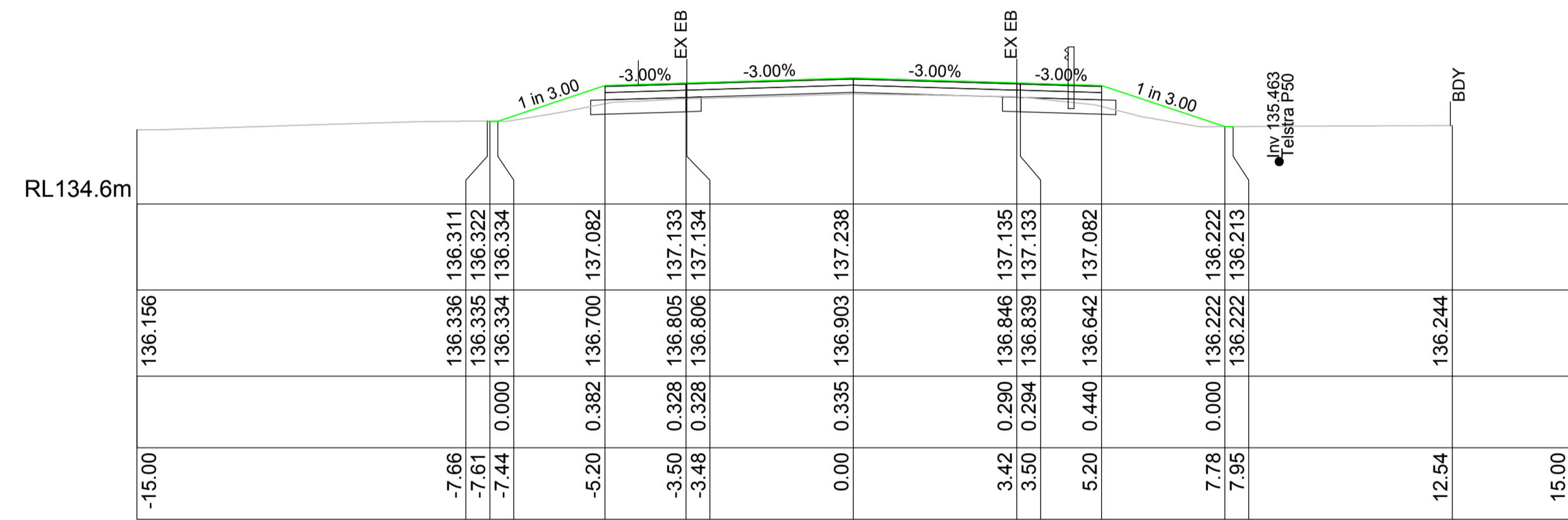
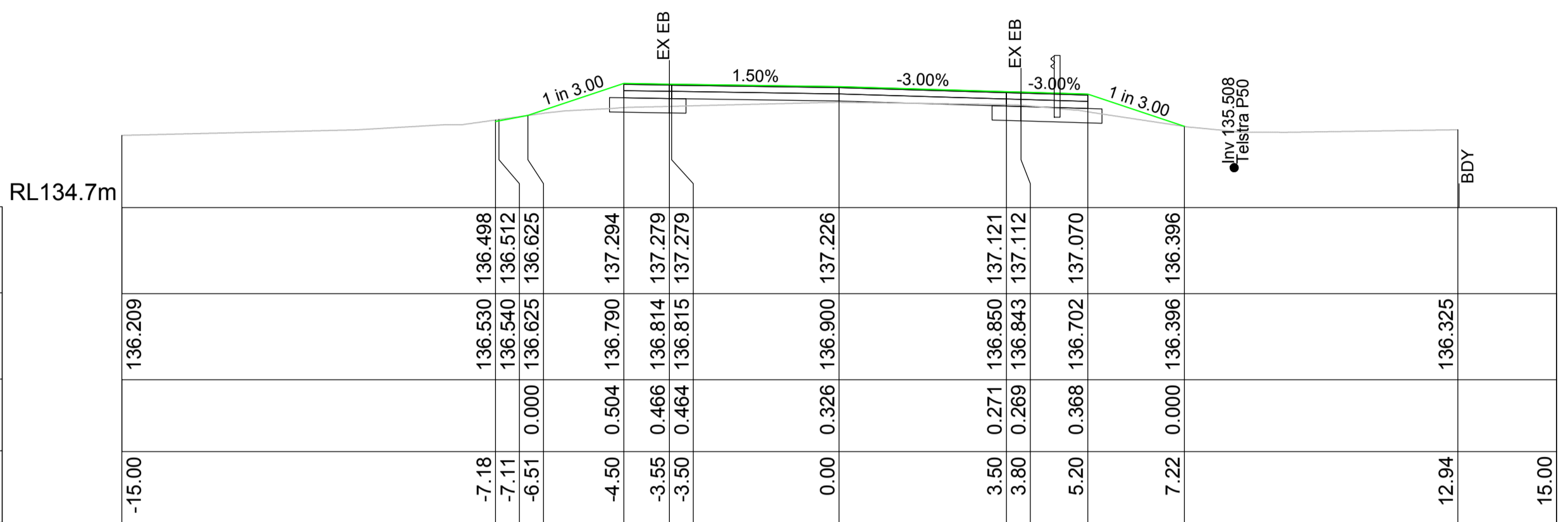
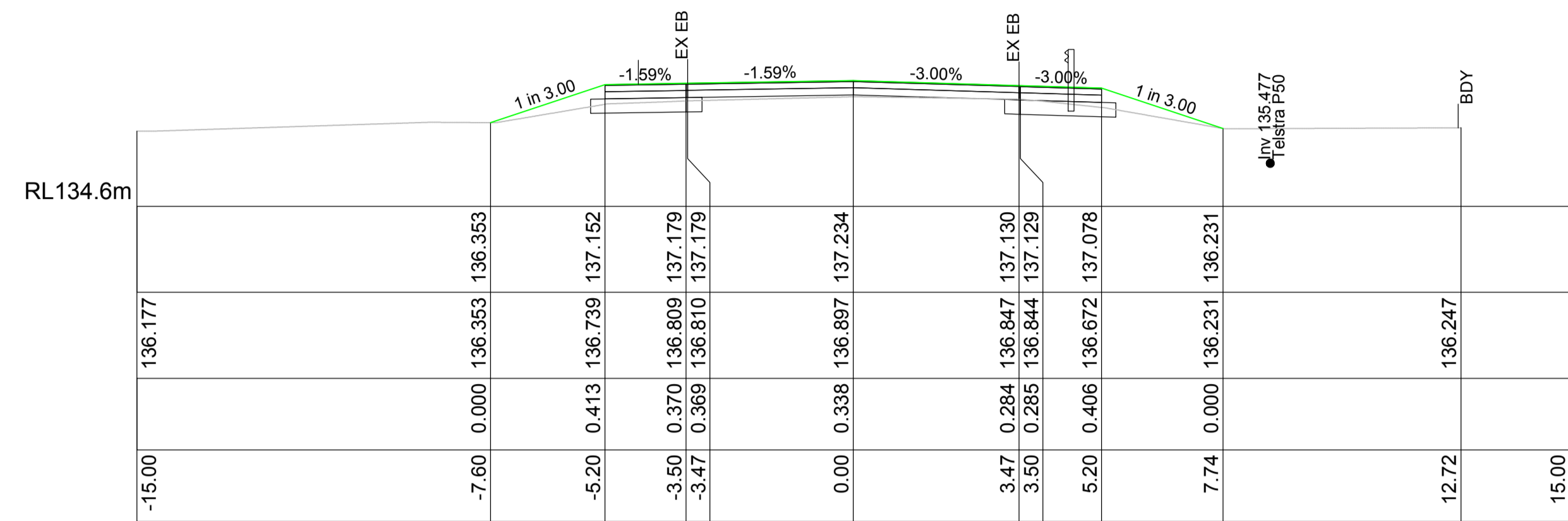
CLIENT	CESSNOCK CITY COUNCIL
PLAN:	LONGITUDINAL SECTION HORIZ. N/A VERT. N/A
CROSS SECTION:	HORIZ. 1:100 VERT. 1:100

PROJECT  
**LOCAL ROAD RENEWAL  
STAGE 1 & STAGE 2  
SANDY CREEK ROAD, QUORROBOLONG**

DRAWING TITLE  
CROSS SECTIONS SHEET 54 OF 72

**SHEET 68 OF 116 SHEETS**

PROJECT No	AL22077	REVISION	1
DWG No	C05-68		
<b>CONSTRUCTION</b>			
2 1 0 2 4 6 1:100 (A1)			



	DESIGN	EXISTING	DIFFERENCE	OFFSET
136.136	136.136	136.136	0.00	-15.00
136.303	136.303	136.303	0.00	-7.74
136.304	136.304	136.304	0.00	-7.62
136.305	136.305	136.305	0.00	-7.54
136.655	136.655	136.655	0.00	-5.20
137.086	137.086	137.086	0.00	-3.50
137.137	137.137	137.137	0.00	-3.50
137.242	137.242	137.242	0.00	0.00
137.192	137.192	137.192	0.00	3.37
137.190	137.190	137.190	0.00	3.50
137.164	137.164	137.164	0.00	5.20
136.217	136.217	136.217	0.00	8.04
136.218	136.218	136.218	0.00	8.18
136.241	136.241	136.241	0.00	12.35
15.00	15.00	15.00	0.00	15.00

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

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SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M		
DRAWN:	M.M		
CHECKED:	M.M		
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION HORIZ. N/A VERT. N/A
APPROVED:	M.M	CROSS SECTION:	HORIZ. 1:100 VERT. 1:100

PROJECT  
**LOCAL ROAD RENEWAL  
 STAGE 1 & STAGE 2  
 SANDY CREEK ROAD, QUORROBOLONG**

DRAWING TITLE  
**CROSS SECTIONS SHEET 55 OF 72**

**SHEET 69 OF 116 SHEETS**

PROJECT No	AL22077	REVISION	1
DWG No	C05-69		

**CONSTRUCTION**

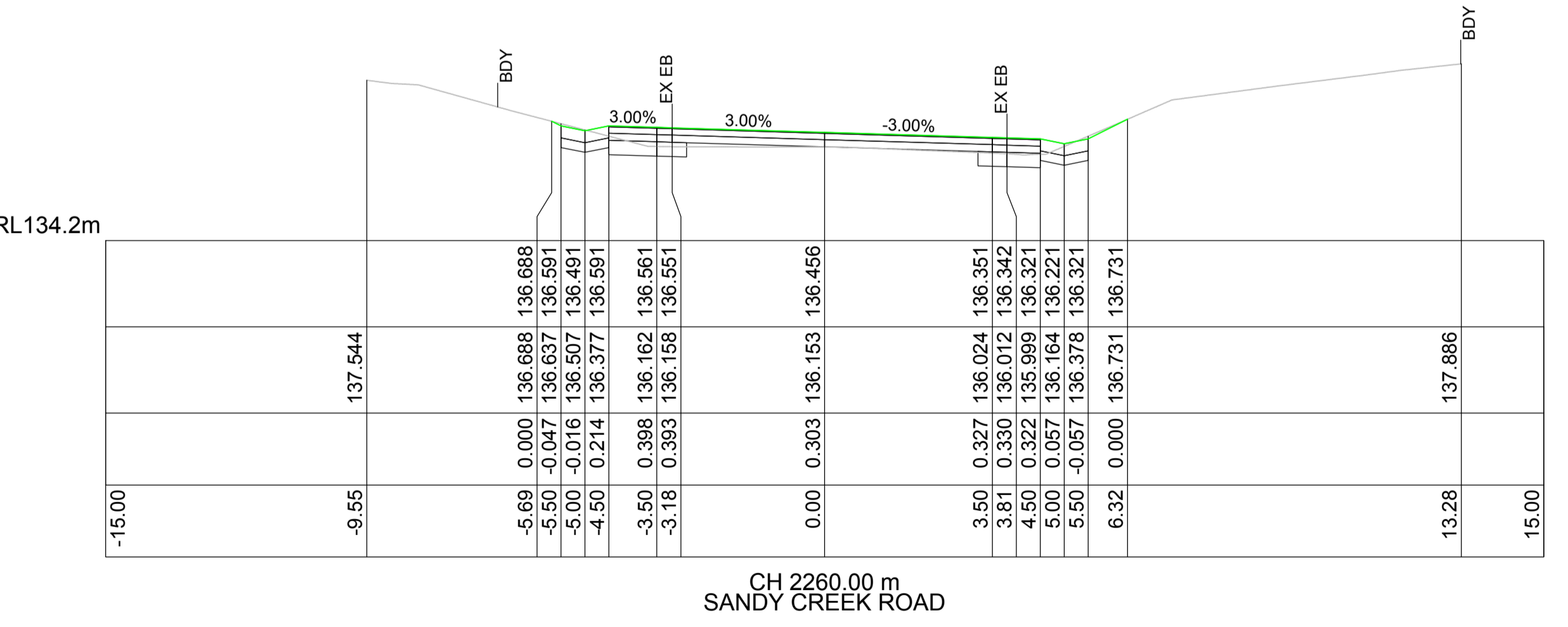
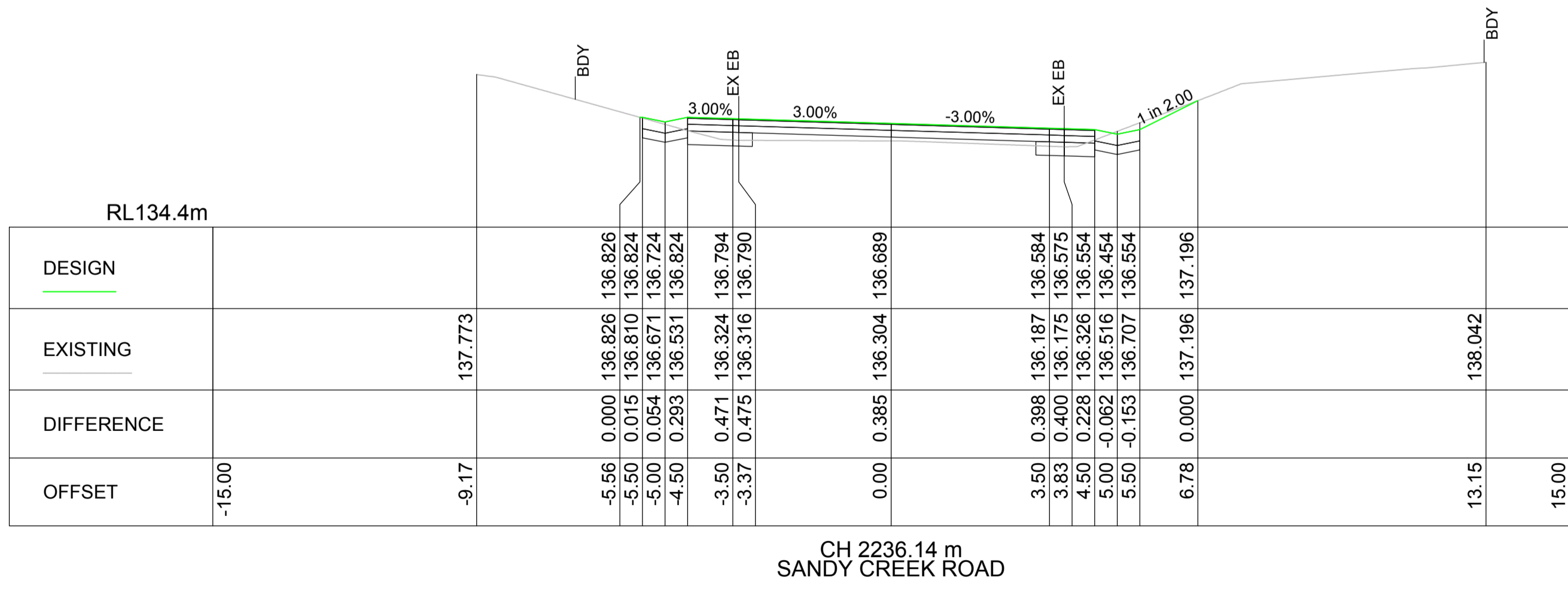
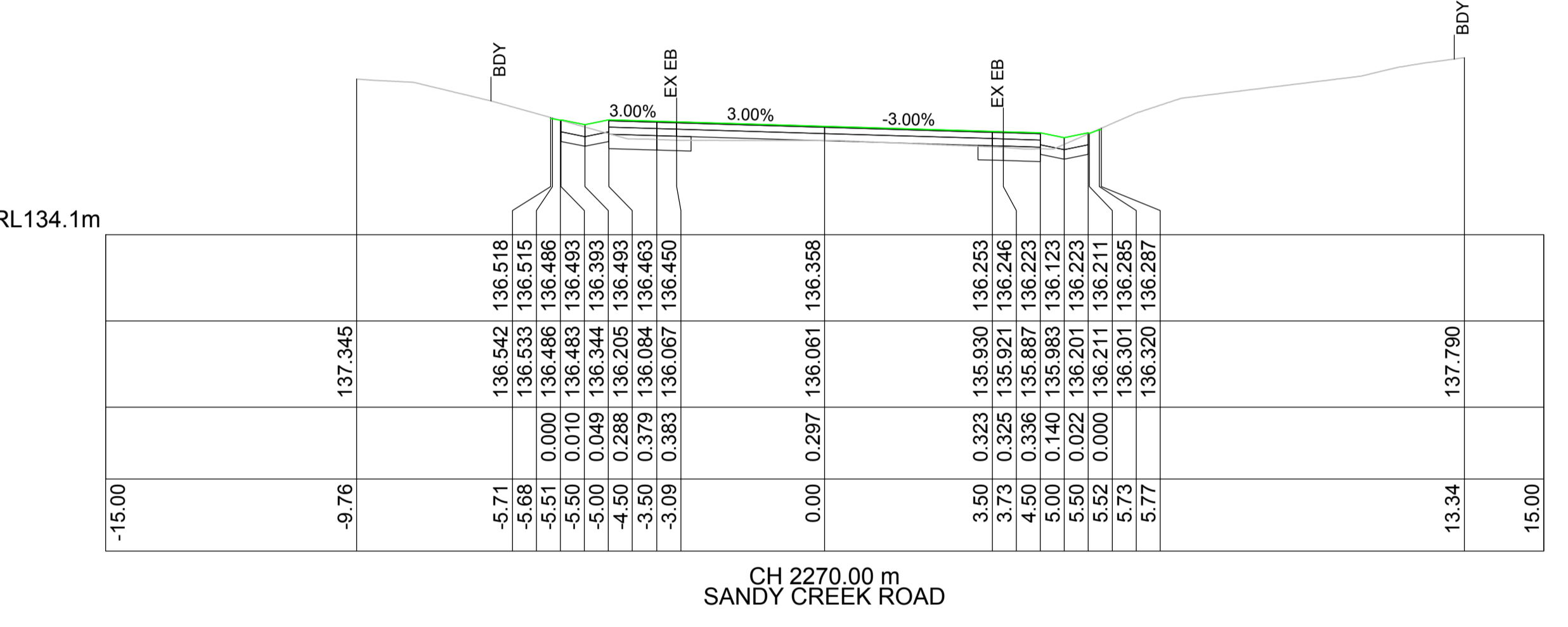
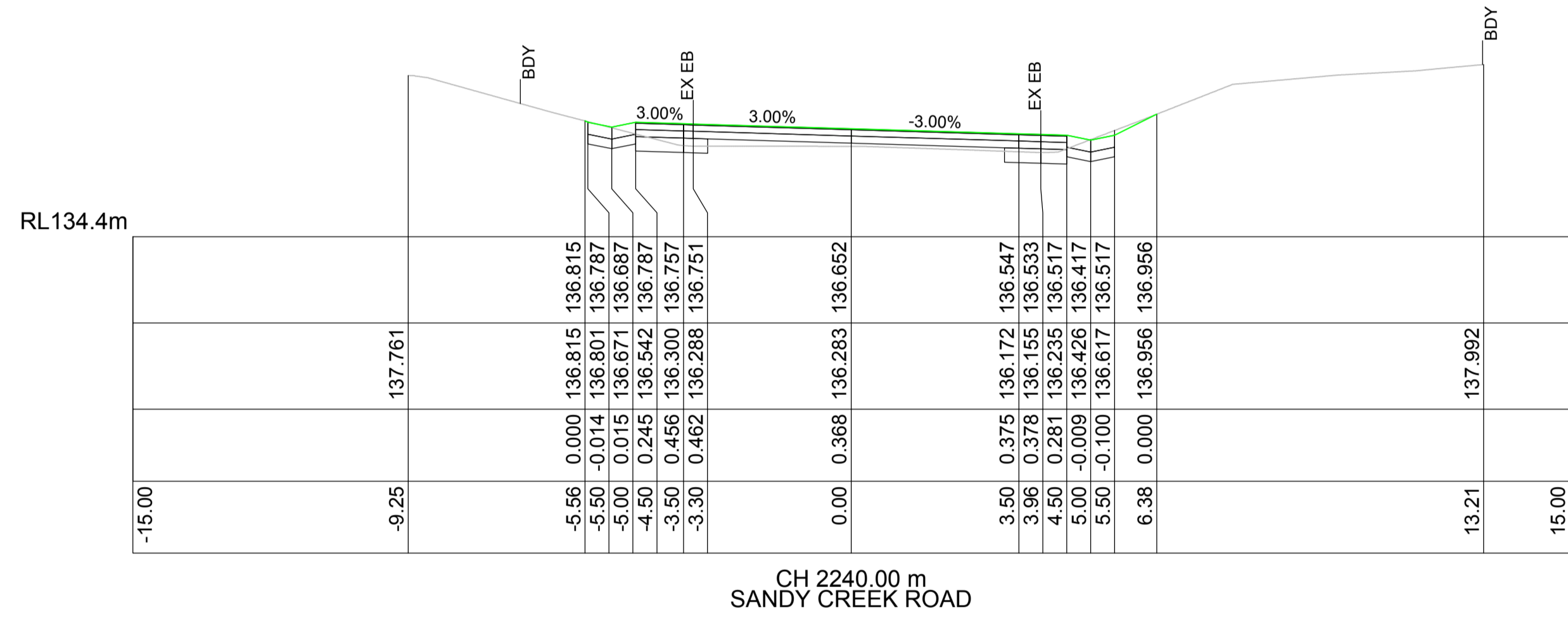
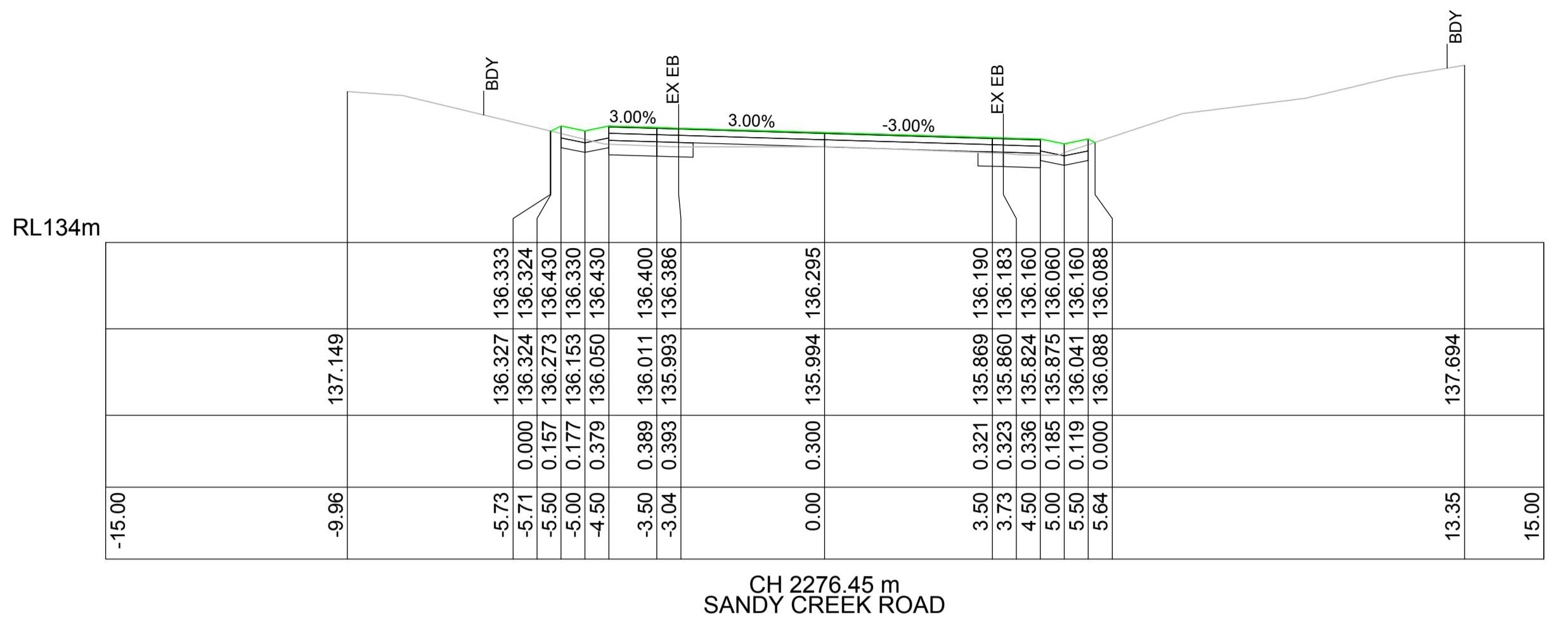
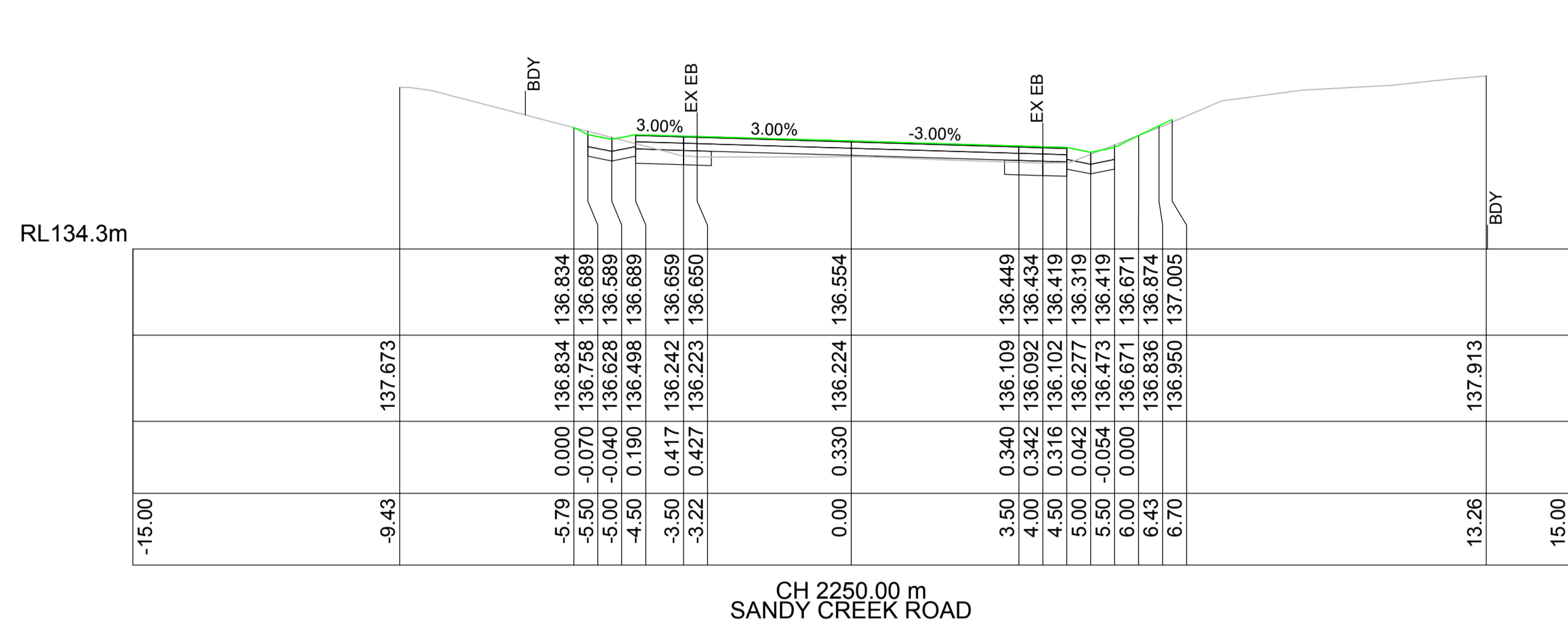
2 1 0 2 4 6  
 1:100 (A1)











DESIGN	EXISTING	DIFFERENCE	OFFSET
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	136.826	0.000	-5.56
	136.824	0.015	-5.50
	136.724	0.054	-5.00
	136.824	0.293	-4.50
	136.794	0.471	-3.50
	136.790	0.475	-3.37
	136.689	0.385	0.00
	136.584	0.398	3.50
	136.575	0.400	3.83
	136.554	0.228	4.50
	136.454	0.062	5.00
	136.554	-0.153	5.50
	137.196	0.000	6.78
	138.042		13.15
			15.00

DESIGN	EXISTING	DIFFERENCE	OFFSET
	137.544		-15.00
	136.688	0.000	-5.69
	136.591	-0.047	-5.50
	136.491	-0.016	-5.00
	136.591	0.214	-4.50
	136.561	0.398	-3.50
	136.551	0.383	-3.18
	136.456	0.000	0.00
	136.351	0.327	3.50
	136.342	0.330	3.81
	136.321	0.322	4.50
	136.221	0.057	5.00
	136.321	-0.057	5.50
	136.731	0.000	6.32
	137.886		13.28
			15.00

REV	DESCRIPTION	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
	REVISION DETAILS		

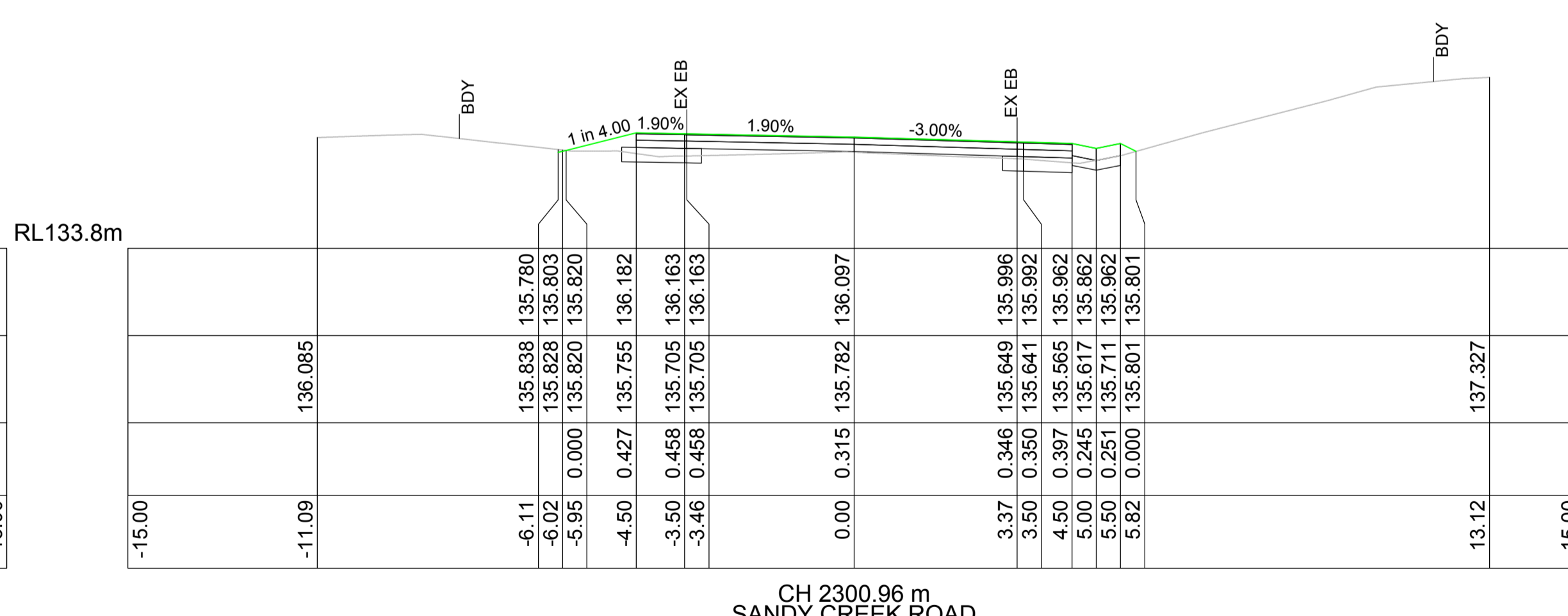
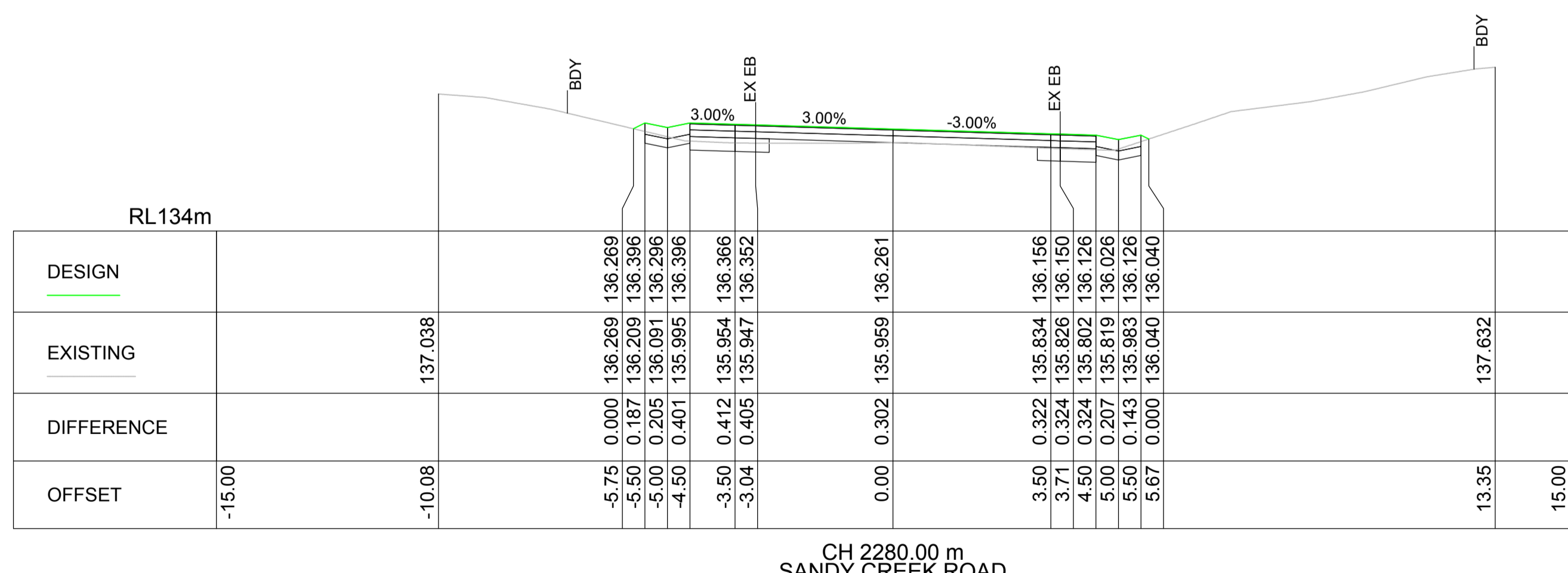
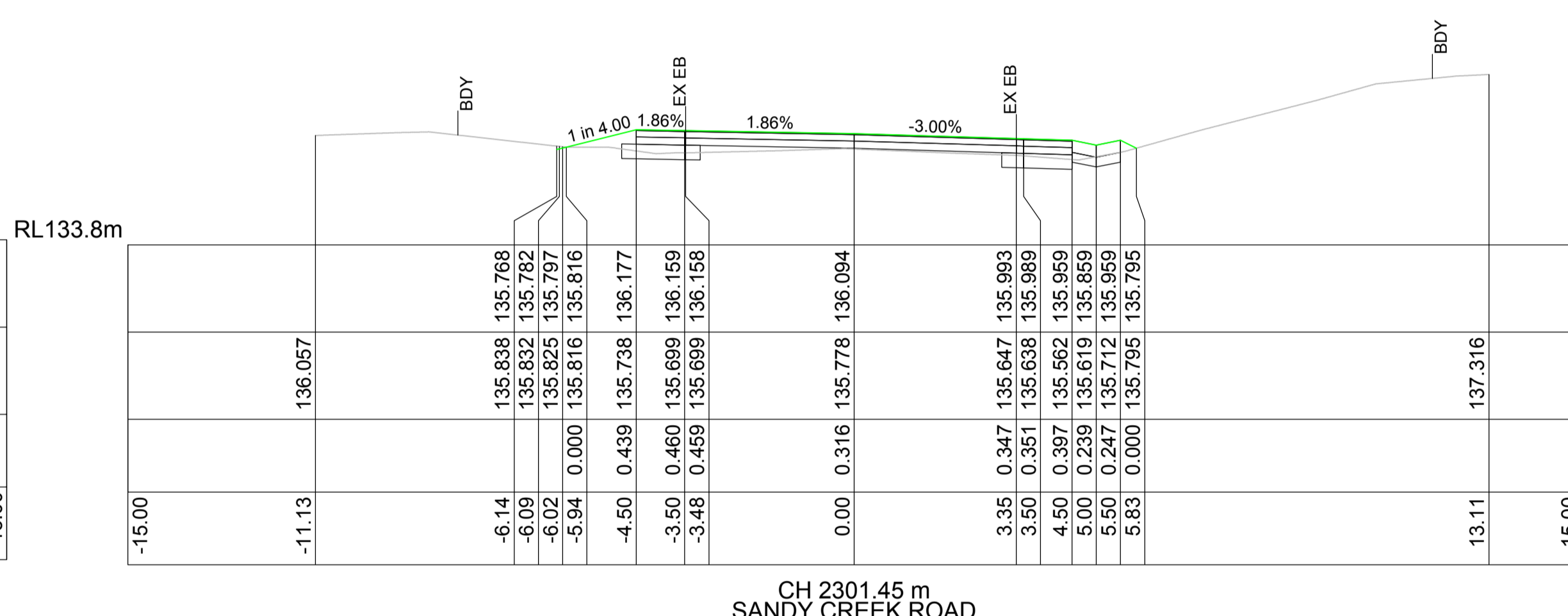
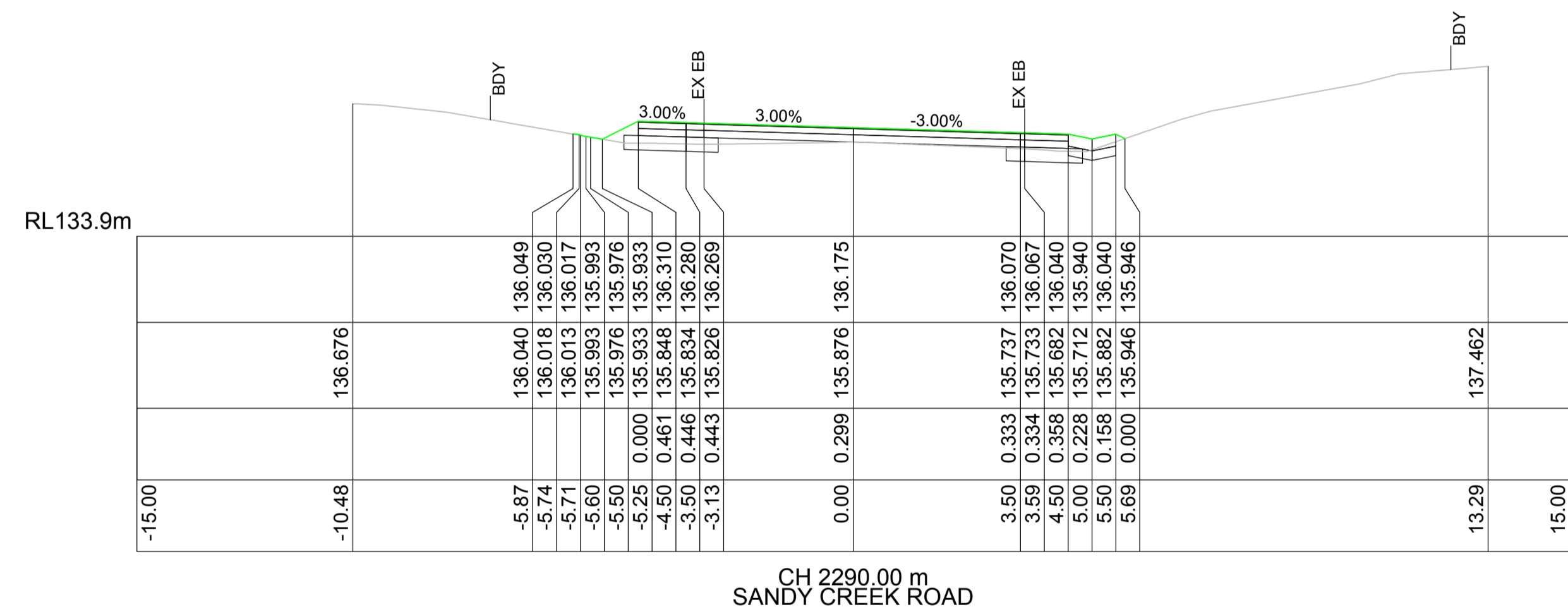
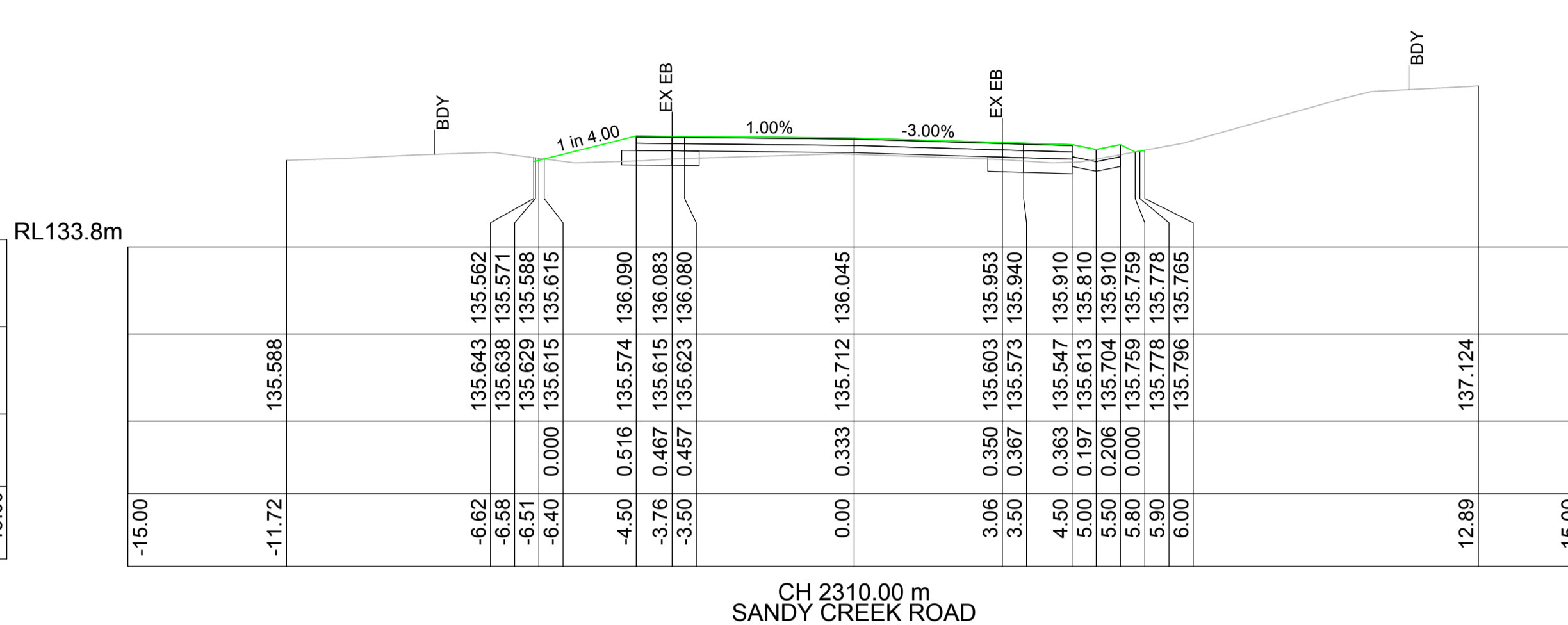
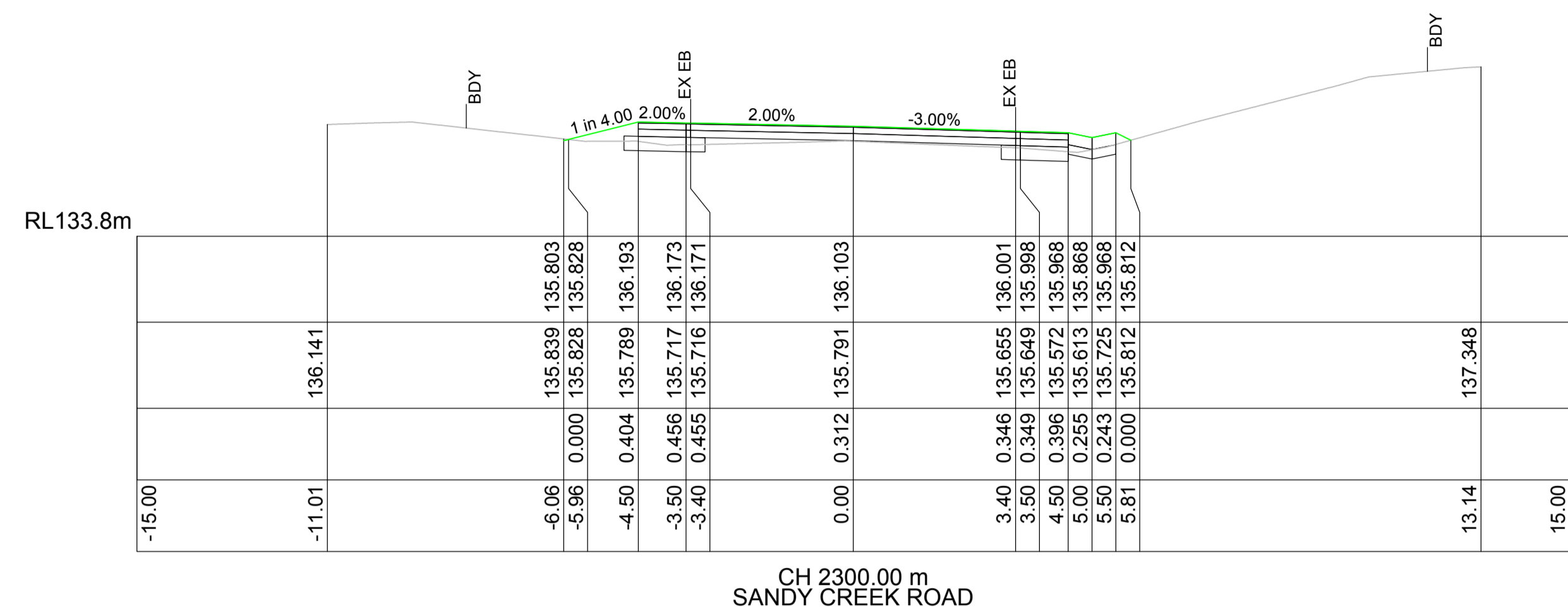
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0466 253 917

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SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M	CHECKED:	M.M
DRAWN:	M.M	DATE:	11.08.2023
APPROVED:	M.M	PLAN:	1:100 (A1)
		LONGITUDINAL SECTION:	HORIZ. N/A
		CROSS SECTION:	HORIZ. 1:100
			VERT. 1:100

PROJECT  
**LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG**  
 DRAWING TITLE  
**CROSS SECTIONS SHEET 59 OF 72**  
**SHEET 73 OF 116 SHEETS**

PROJECT No  
**AL22077**  
 DWG No  
**C05-73**  
**CONSTRUCTION**  
 REVISION  
**1**  
 2 1 0 2 4 6  
 1:100 (A1)



	DESIGN	EXISTING	DIFFERENCE	OFFSET
-15.00				
-10.08		137.038		
-5.75	136.269	136.269	0.000	-5.75
-5.50	136.396	136.209	0.187	-5.50
-5.00	136.296	136.091	0.205	-5.00
-4.50	136.396	135.995	0.401	-4.50
-3.50	136.366	135.954	0.412	-3.50
-3.04	136.352	135.947	0.405	-3.04
0.00	136.261	135.959	0.302	0.00
3.50	136.156	135.894	0.322	3.50
3.71	136.150	135.826	0.324	3.71
4.50	136.126	135.802	0.324	4.50
5.00	136.026	135.819	0.207	5.00
5.50	136.126	135.983	0.143	5.50
5.67	136.040	136.040	0.000	5.67
13.35	137.632			13.35
15.00				15.00

REV	DESCRIPTION	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
	REVISION DETAILS		

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 GILLIESTON HEIGHTS NSW 2321
   
 0466 253 917

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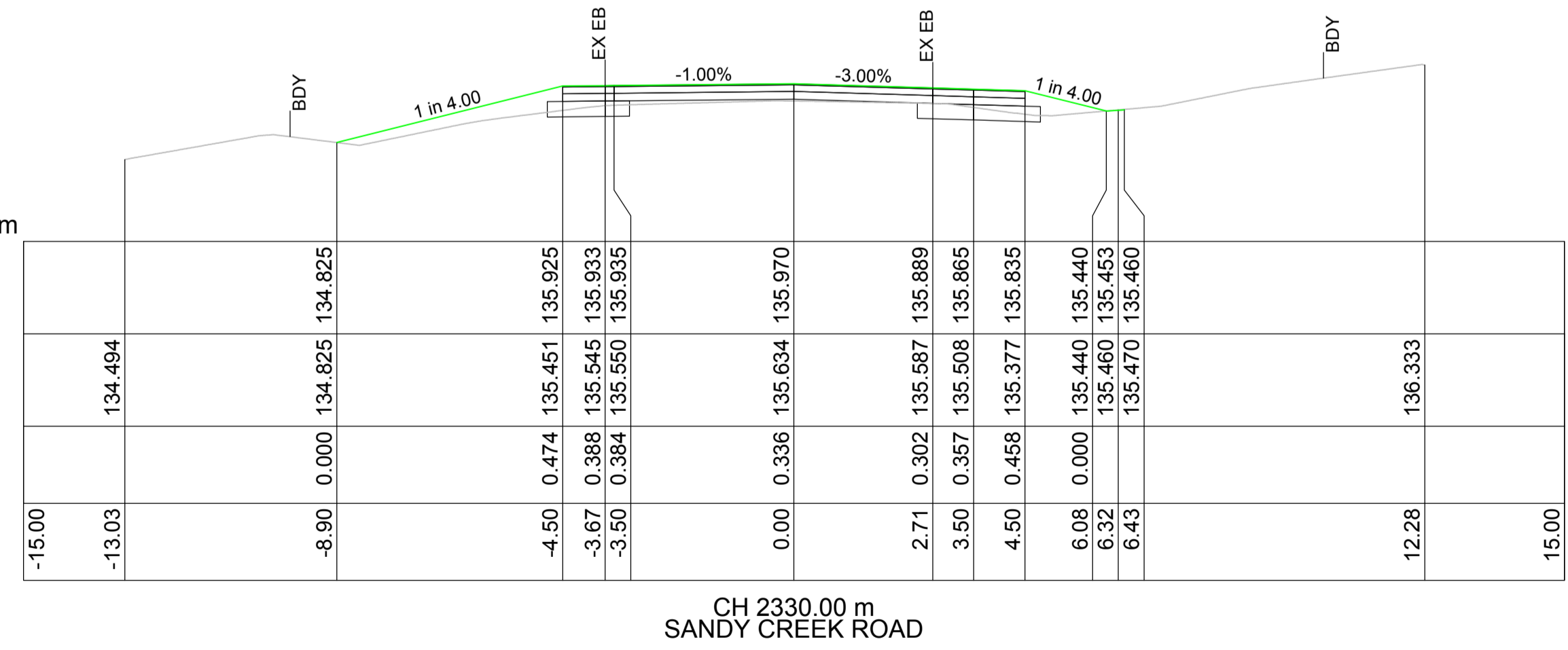
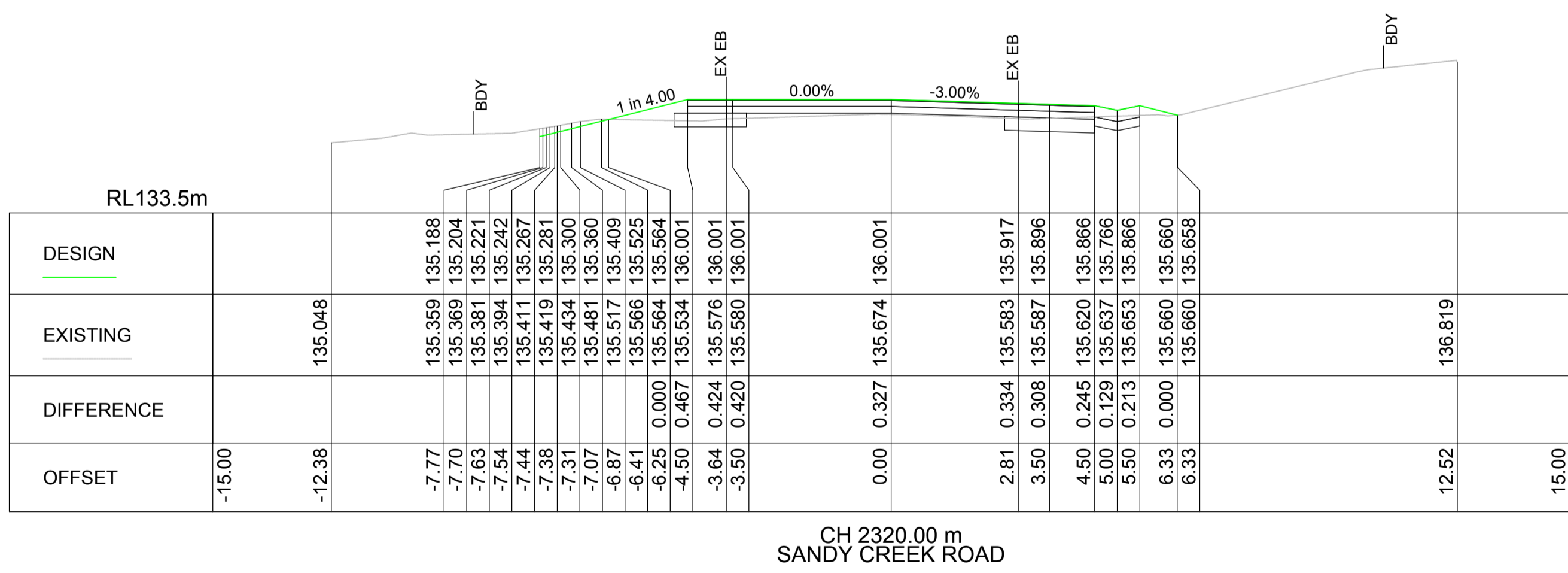
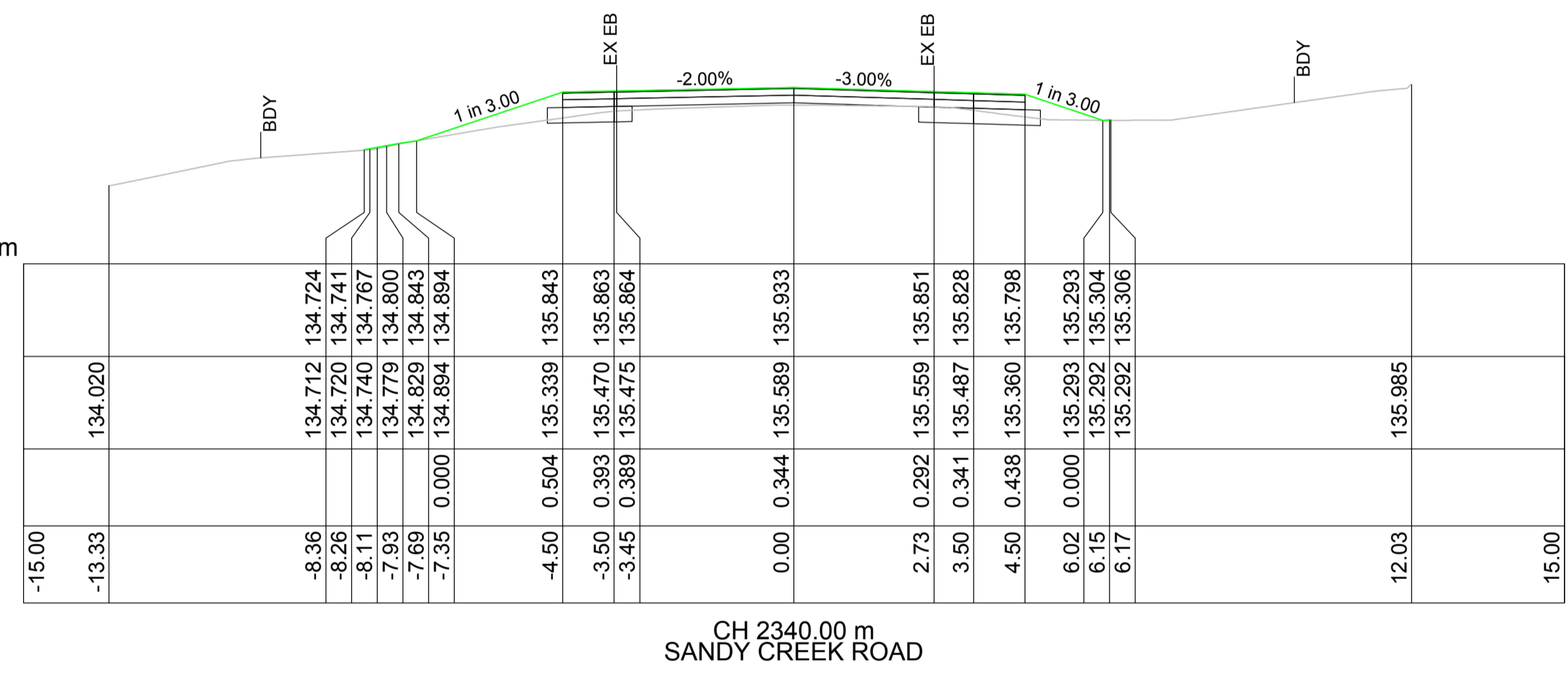
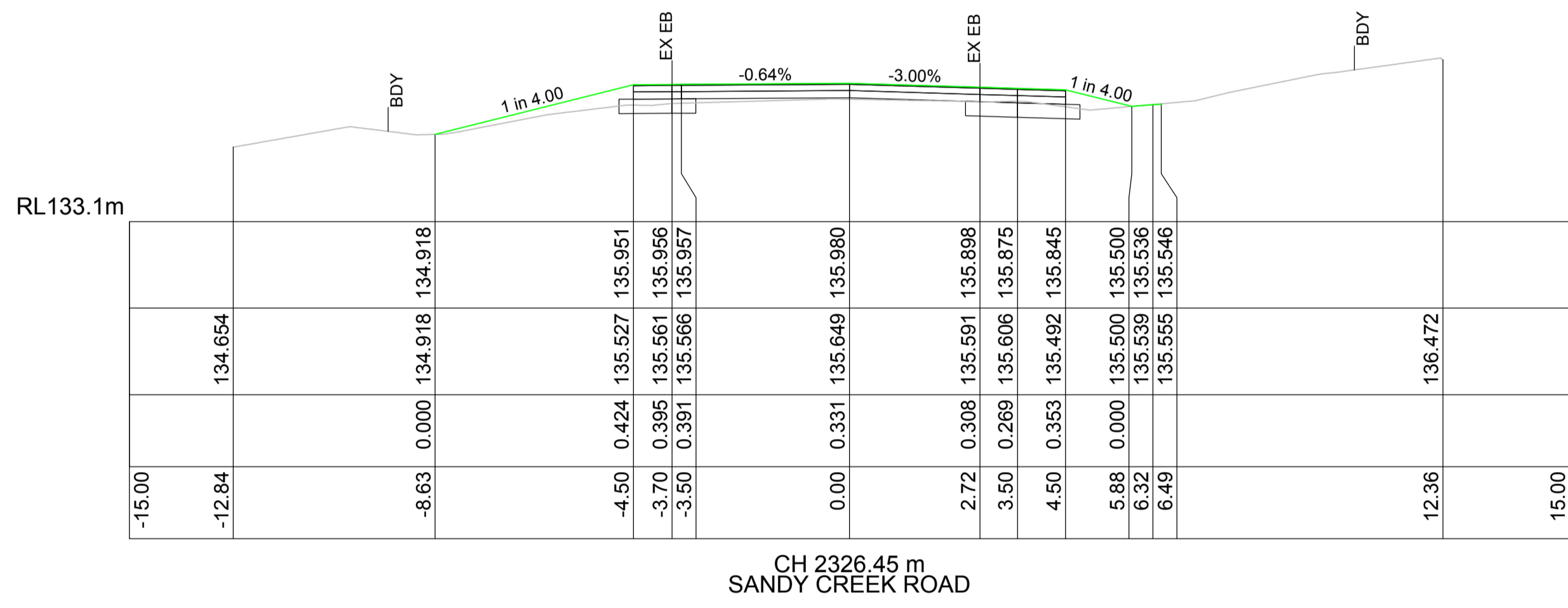
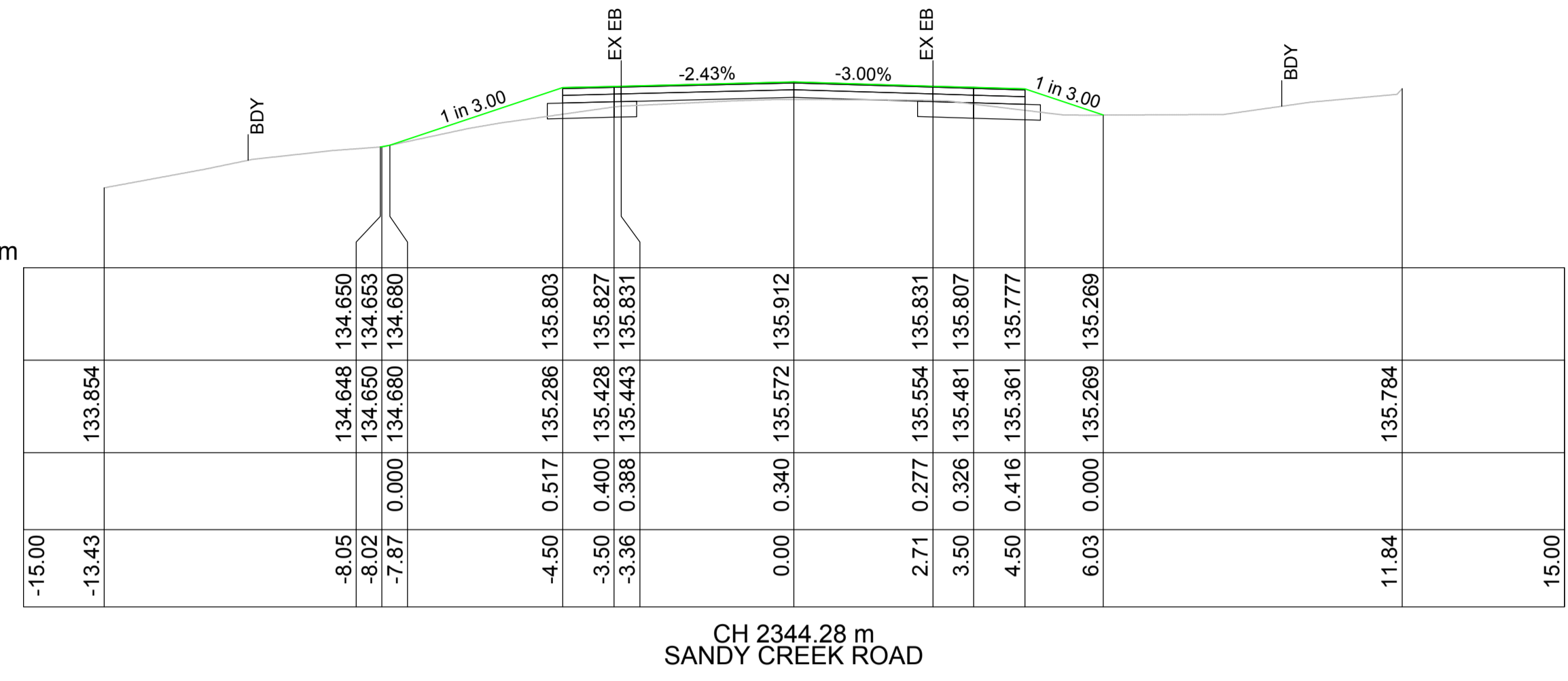
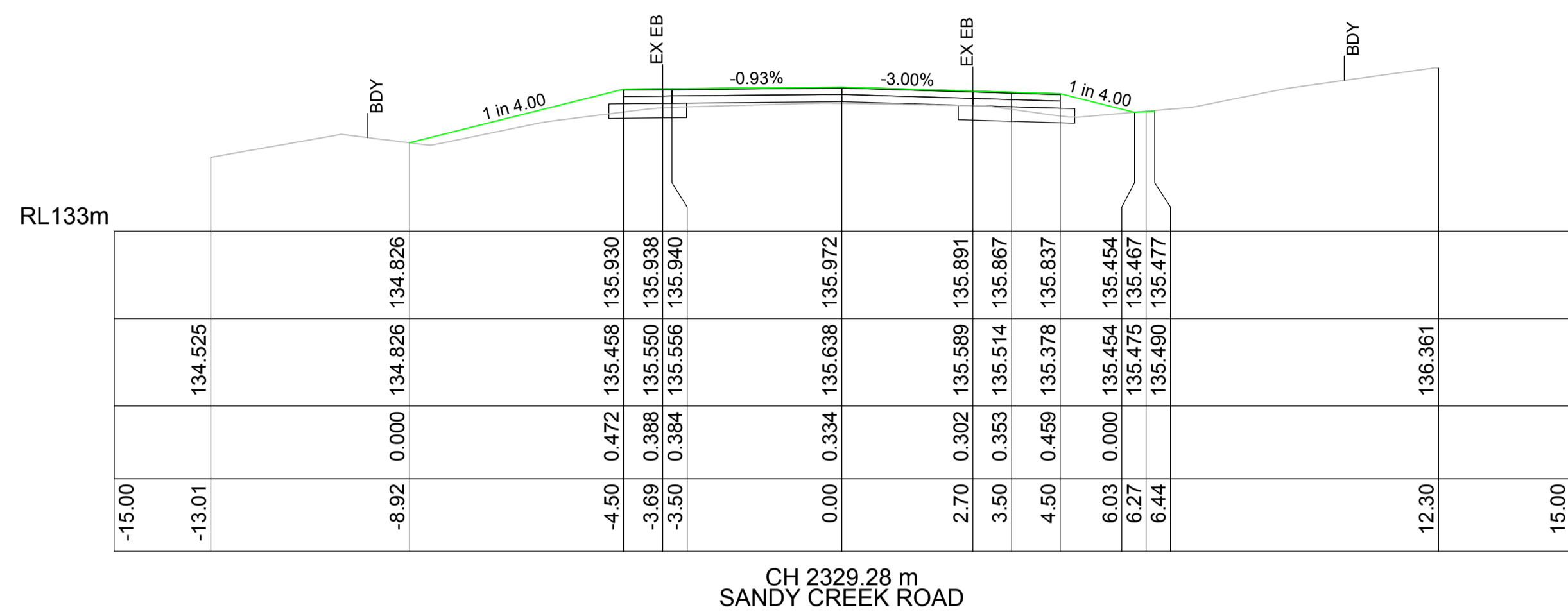
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**CLIENT:** CESSNOCK CITY COUNCIL  
**DESIGN:** M.M  
**DRAWN:** M.M  
**CHECKED:** M.M  
**DATE:** 11.08.2023  
**APPROVED:** M.M

PLAN:	LONGITUDINAL SECTION	CROSS SECTION
1:100 (A1)	HORIZ. N/A	HORIZ. 1:100
	VERT. N/A	VERT. 1:100

**PROJECT:** LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG  
**DRAWING TITLE:** CROSS SECTIONS SHEET 60 OF 72  
**SHEET 74 OF 116 SHEETS**

PROJECT No	REVISION
AL22077	1
DWG No C05-74	

2 1 0 2 4 6  
 1:100 (A1)



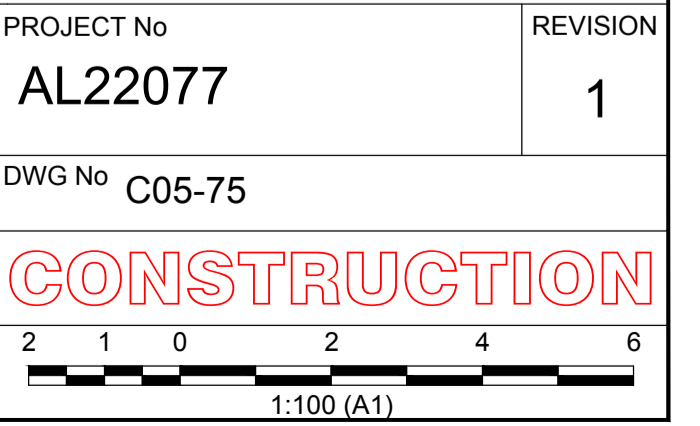
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0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE

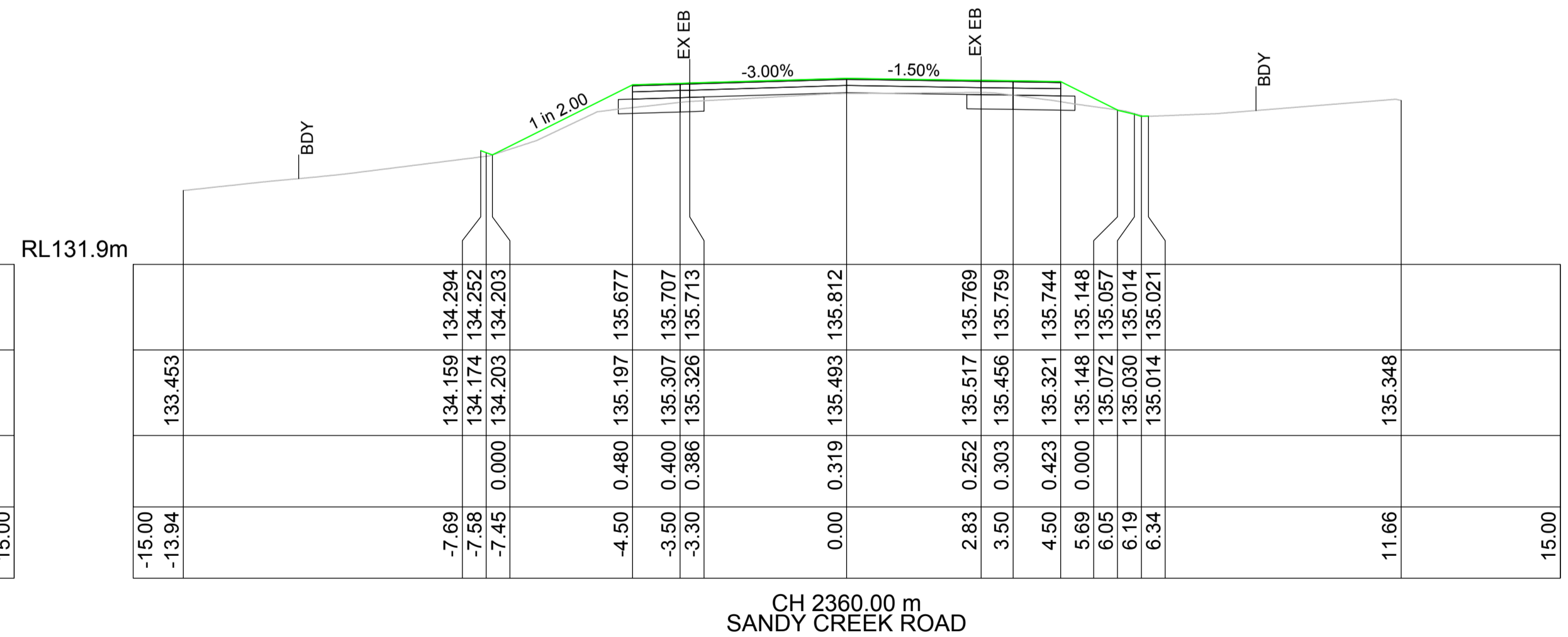
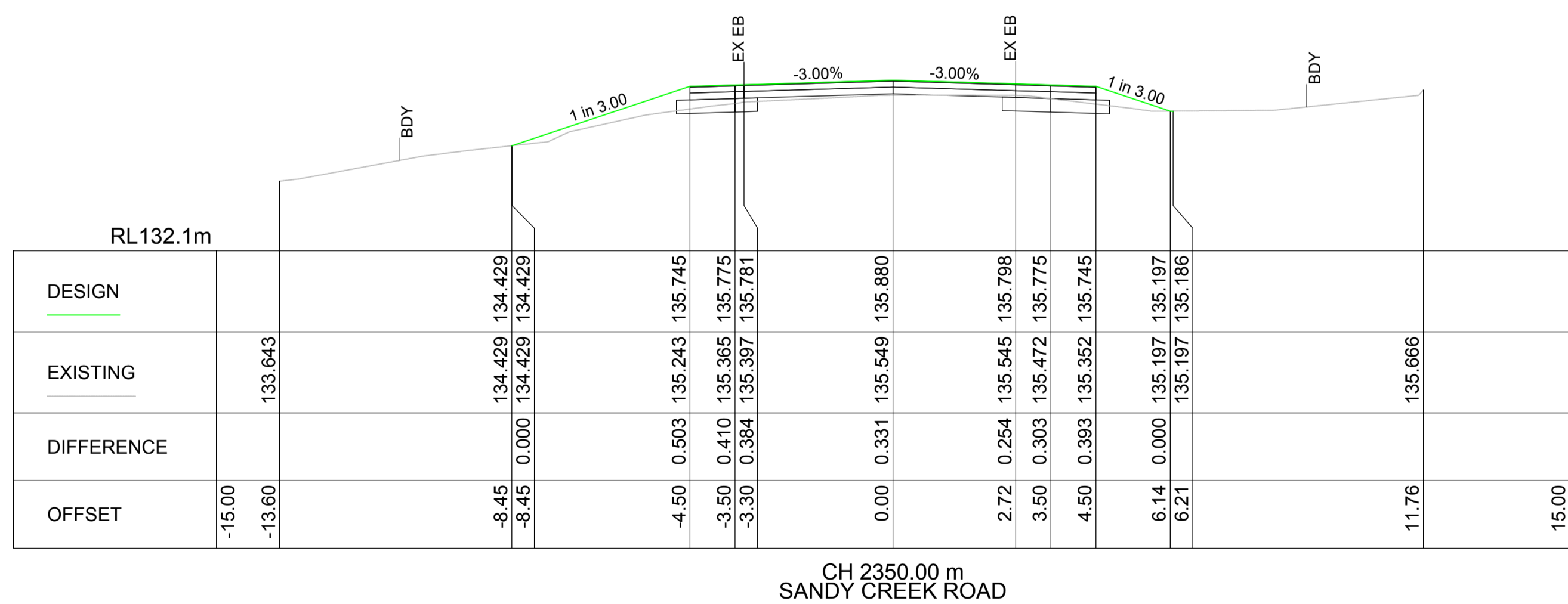
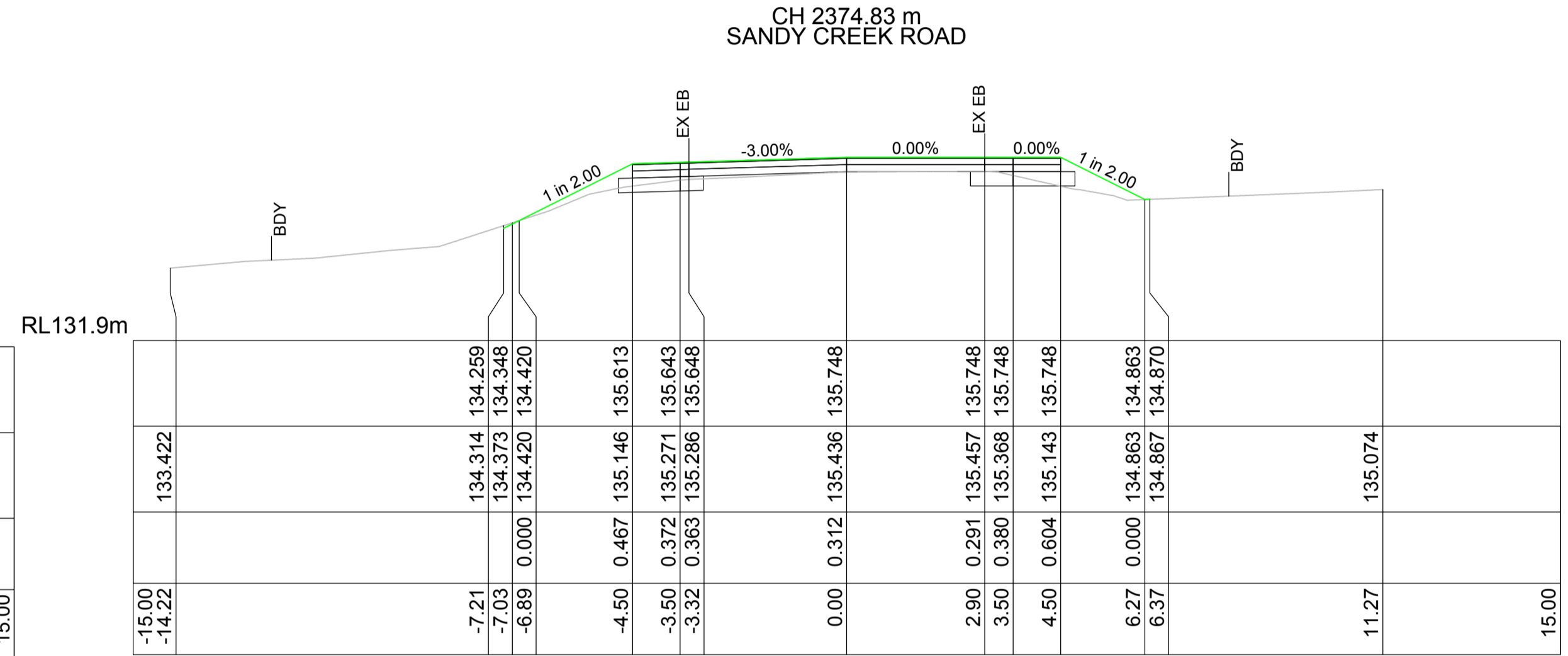
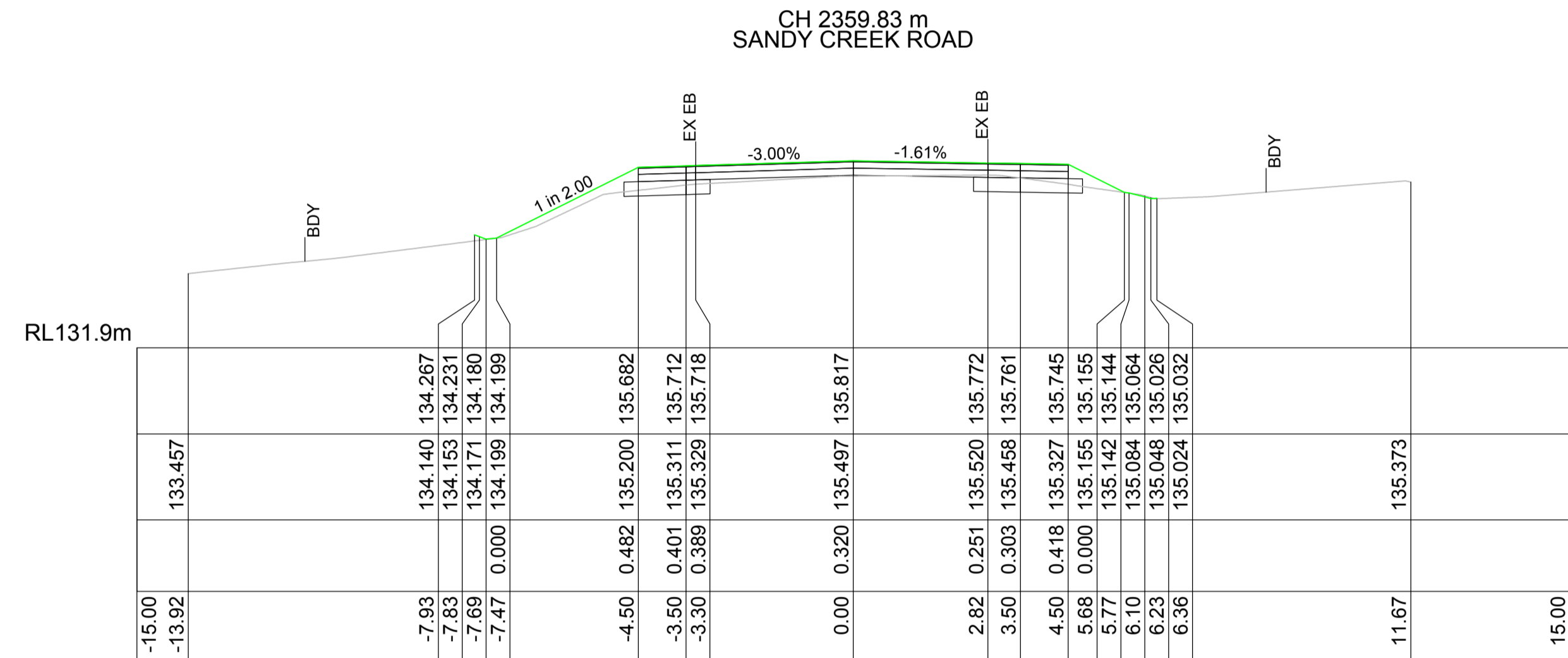
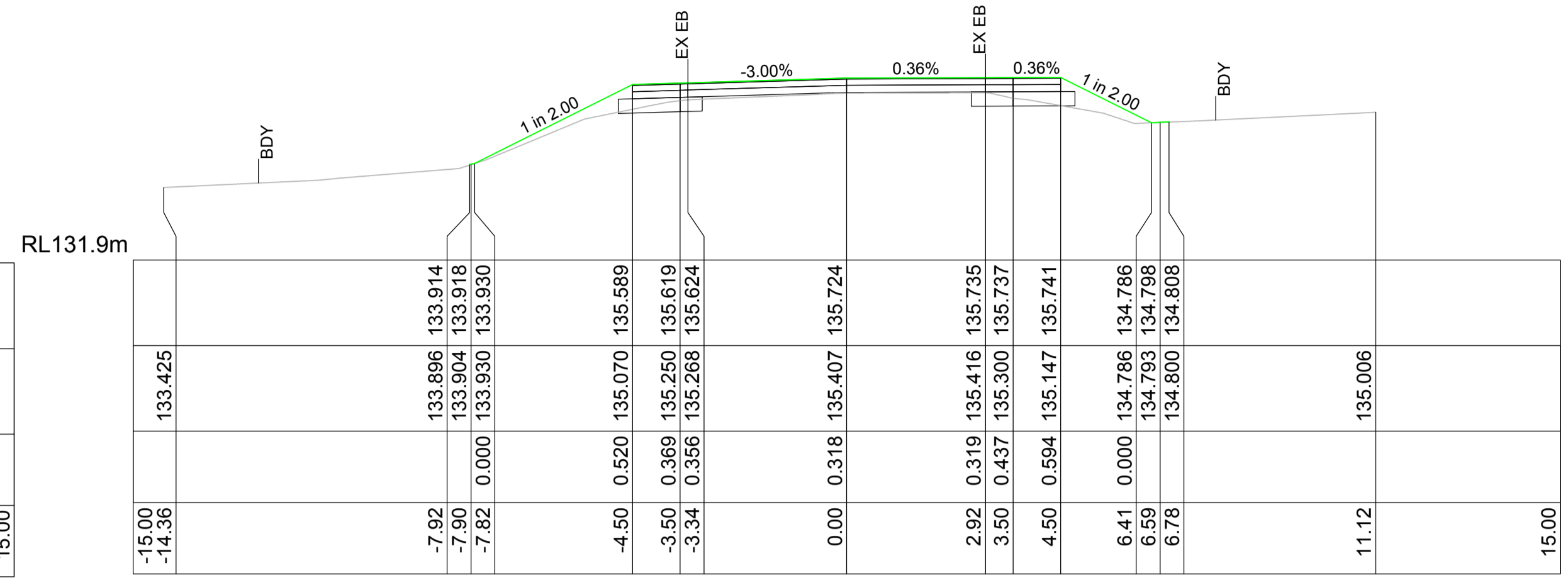
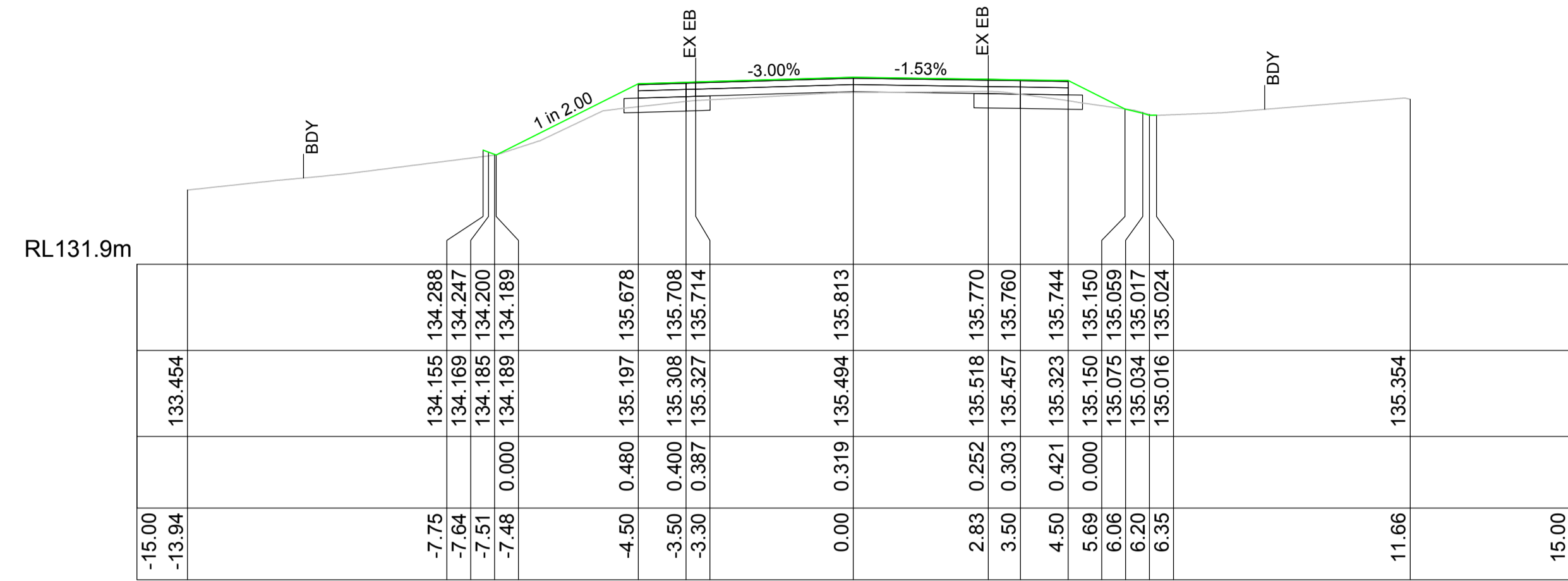


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SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M	PROJECT:	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWN:	M.M	DRAWING TITLE:	CROSS SECTIONS SHEET 61 OF 72
CHECKED:	M.M	DATE:	11.08.2023
APPROVED:	M.M	PLAN:	1:100 (A1)
		LONGITUDINAL SECTION:	HORIZ. N/A VERT. N/A
		CROSS SECTION:	HORIZ. 1:100 VERT. 1:100

PROJECT No:	AL22077	REVISION:	1
DWG No:	C05-75		
<b>CONSTRUCTION</b>			
SHEET 75 OF 116 SHEETS			





	DESIGN	EXISTING	DIFFERENCE	OFFSET

REV	ISSUE	DATE	ISSUED BY
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	12.09.23	
0	ISSUE FOR CONSTRUCTION	21.08.23	
A	PRELIMINARY ISSUE	11.08.23	
	REVISION DETAILS		



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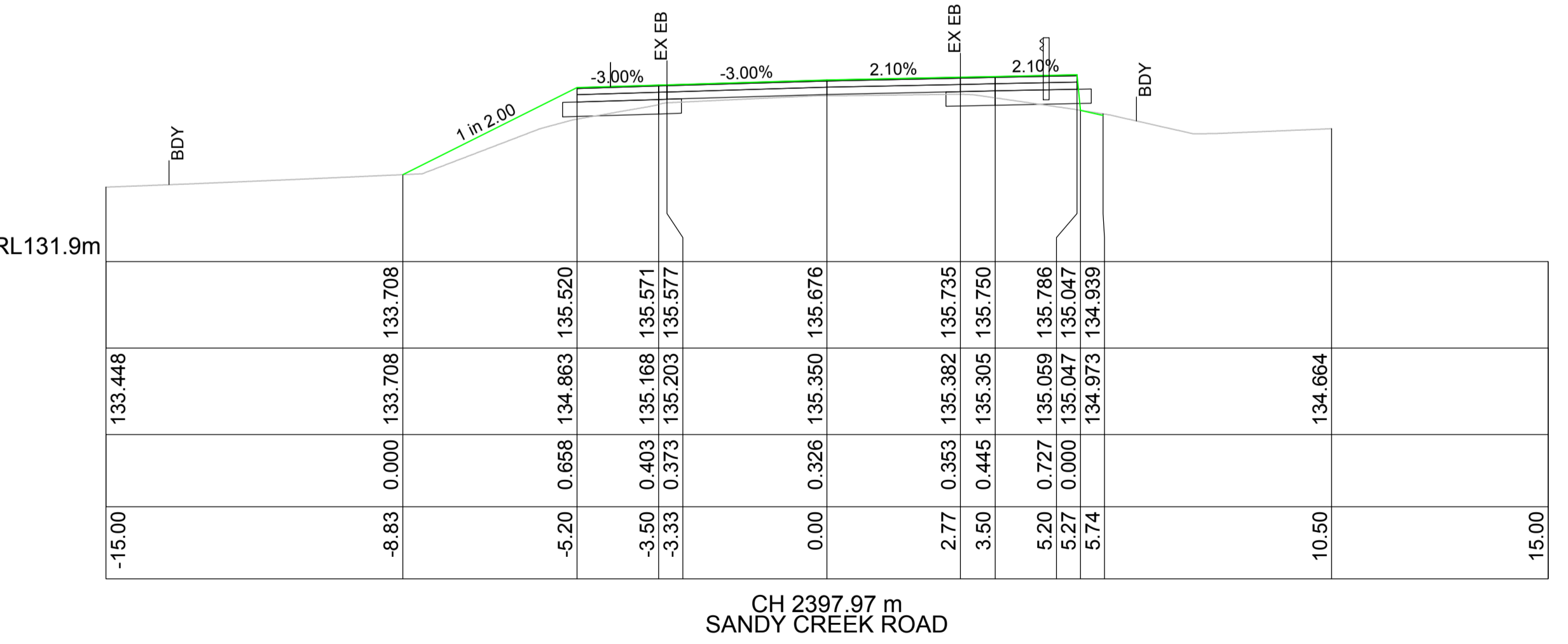
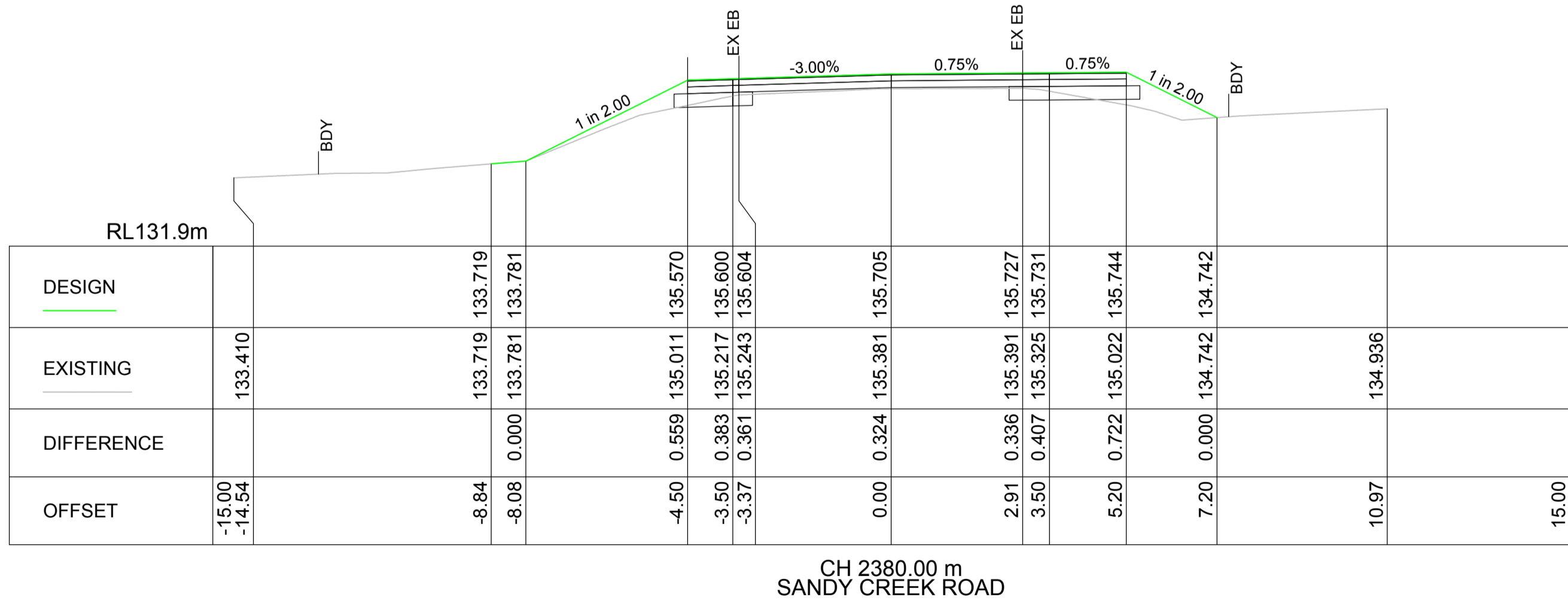
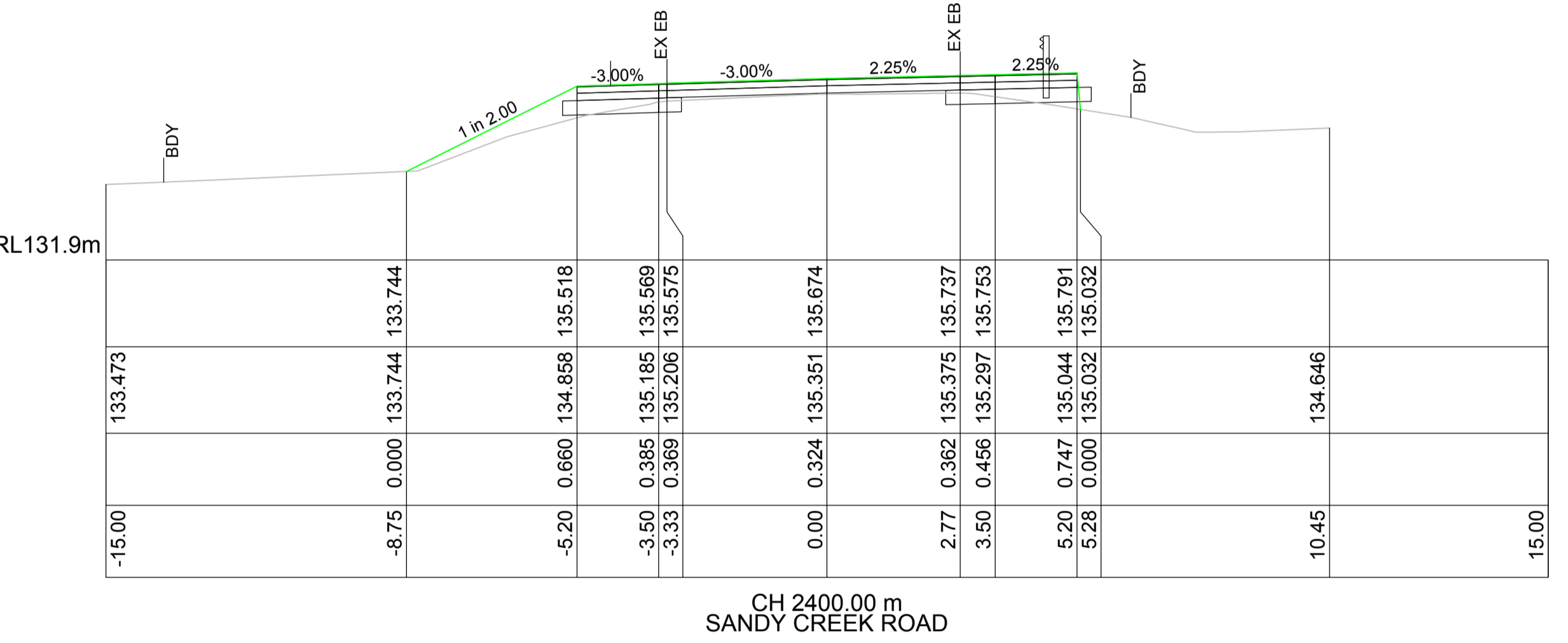
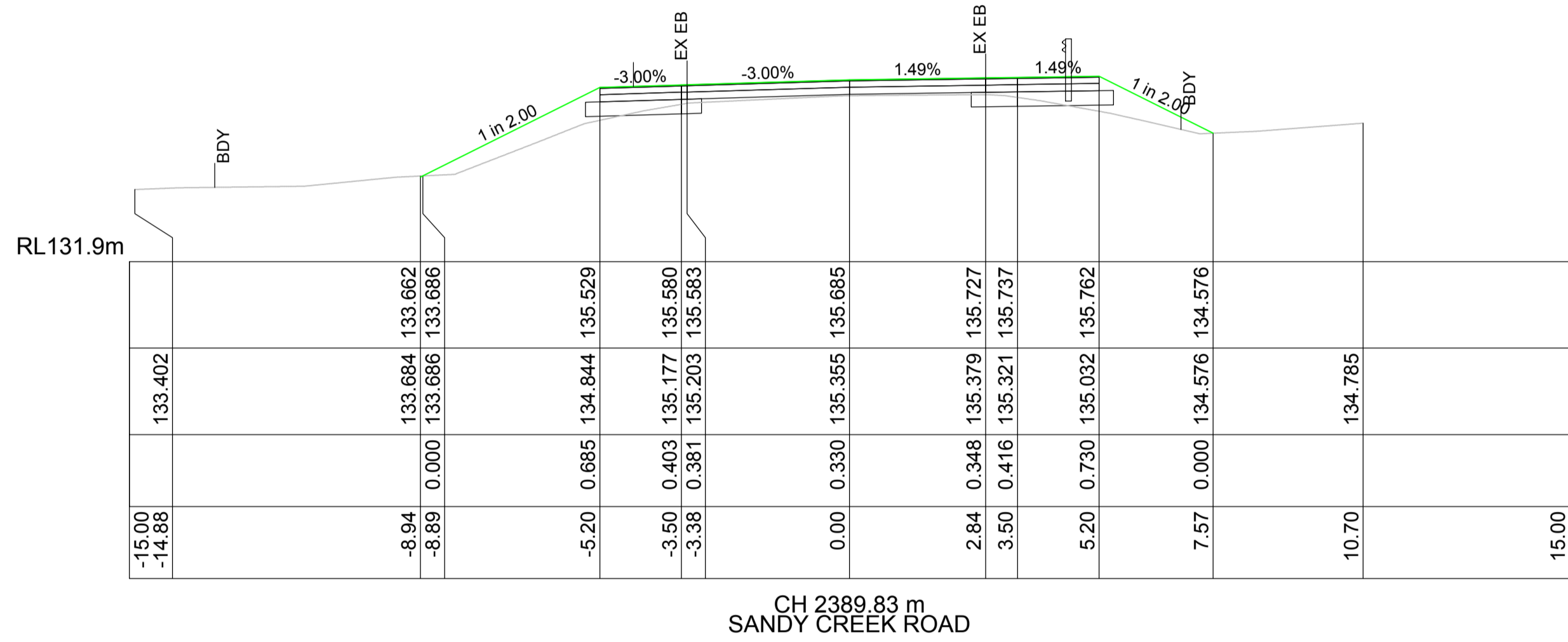
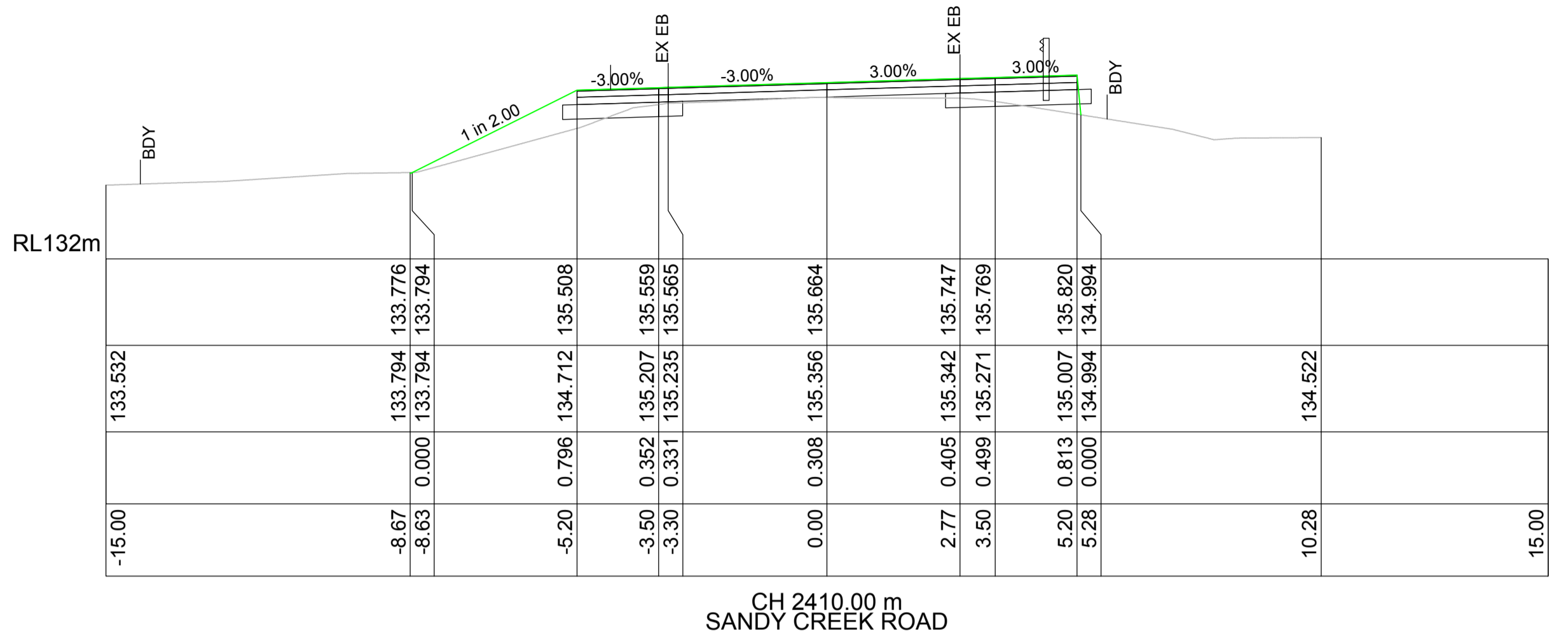
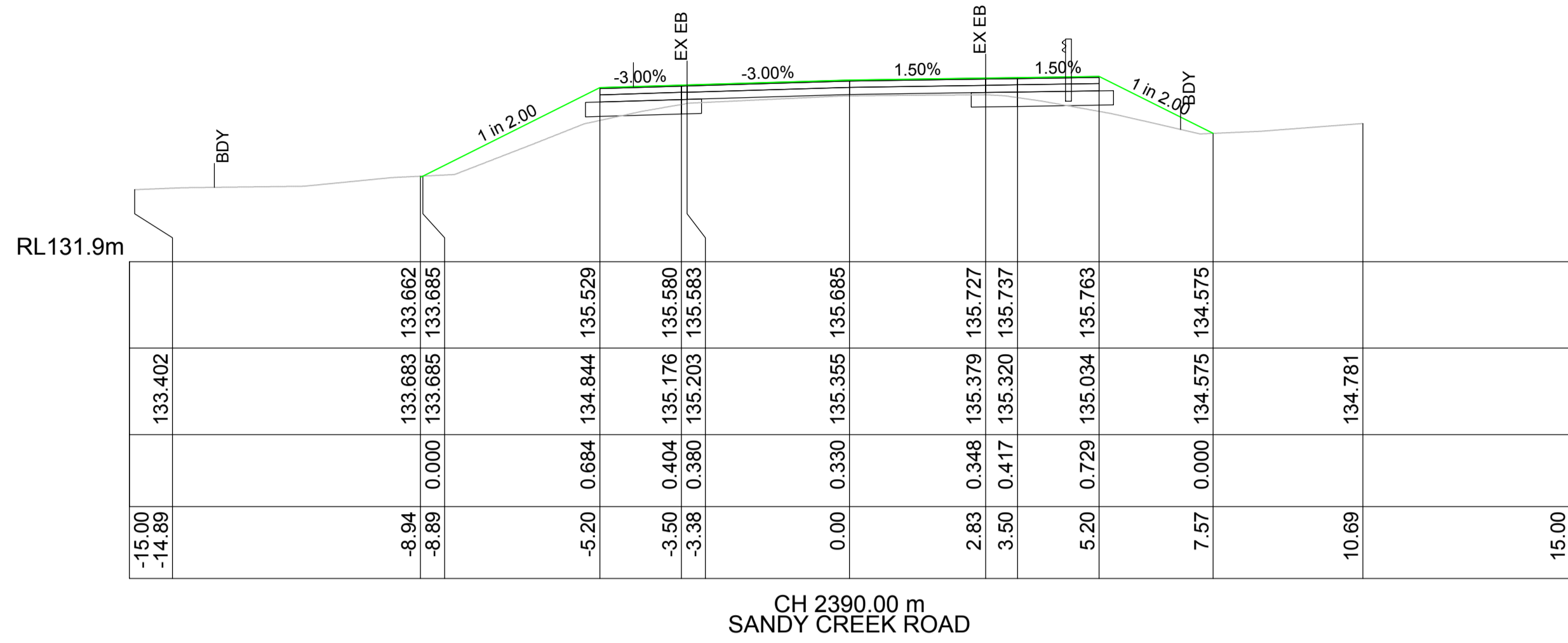
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SURVEY:	DELFS LASCELLES
DESIGN:	M.M
DRAWN:	M.M
CHECKED:	M.M
DATE:	11.08.2023
APPROVED:	M.M

CLIENT	PROJECT	
CESSNOCK CITY COUNCIL	LOCAL ROAD RENEWAL	STAGE 1 & STAGE 2
	SANDY CREEK ROAD, QUORROBOLONG	
PLAN:	LONGITUDINAL SECTION	CROSS SECTION
1:100 (A1)	HORIZ. N/A VERT. N/A	HORIZ. 1:100 VERT. 1:100

PROJECT No	AL22077
DWG No	C05-76
DRAWING TITLE	
CROSS SECTIONS SHEET 62 OF 72	
SHEET 76 OF 116 SHEETS	

REVISION	1
CONSTRUCTION	
1:100 (A1)	



REV	ISSUE FOR CONSTRUCTION	M.M	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
	REVISION DETAILS	ISSUED BY	DATE

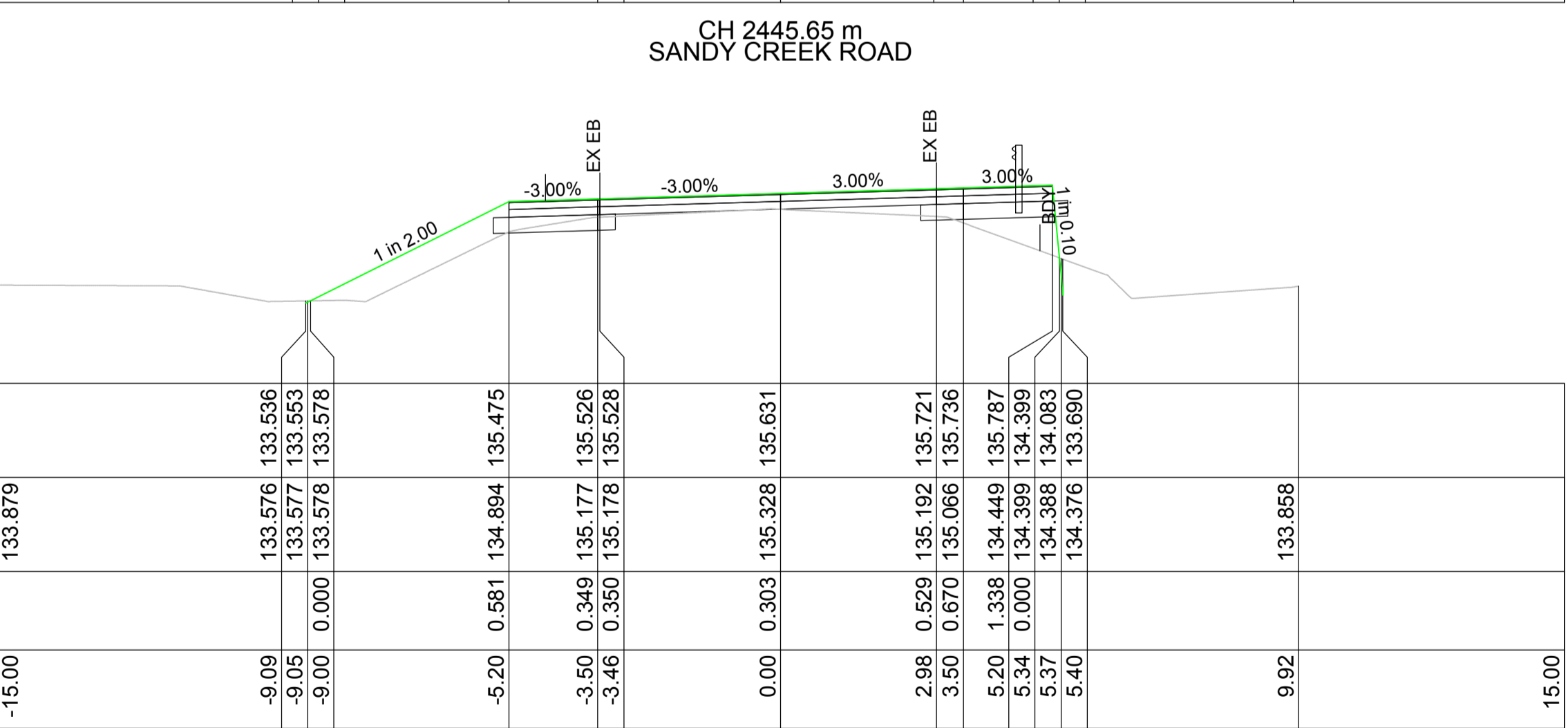
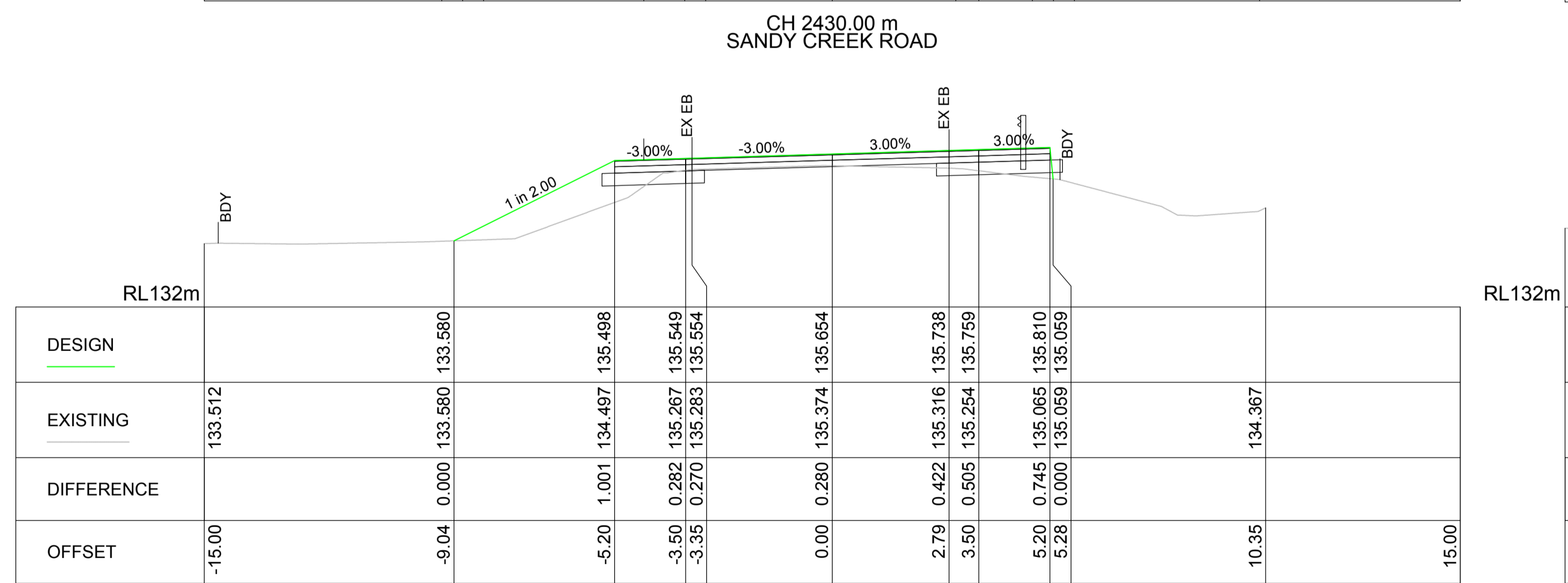
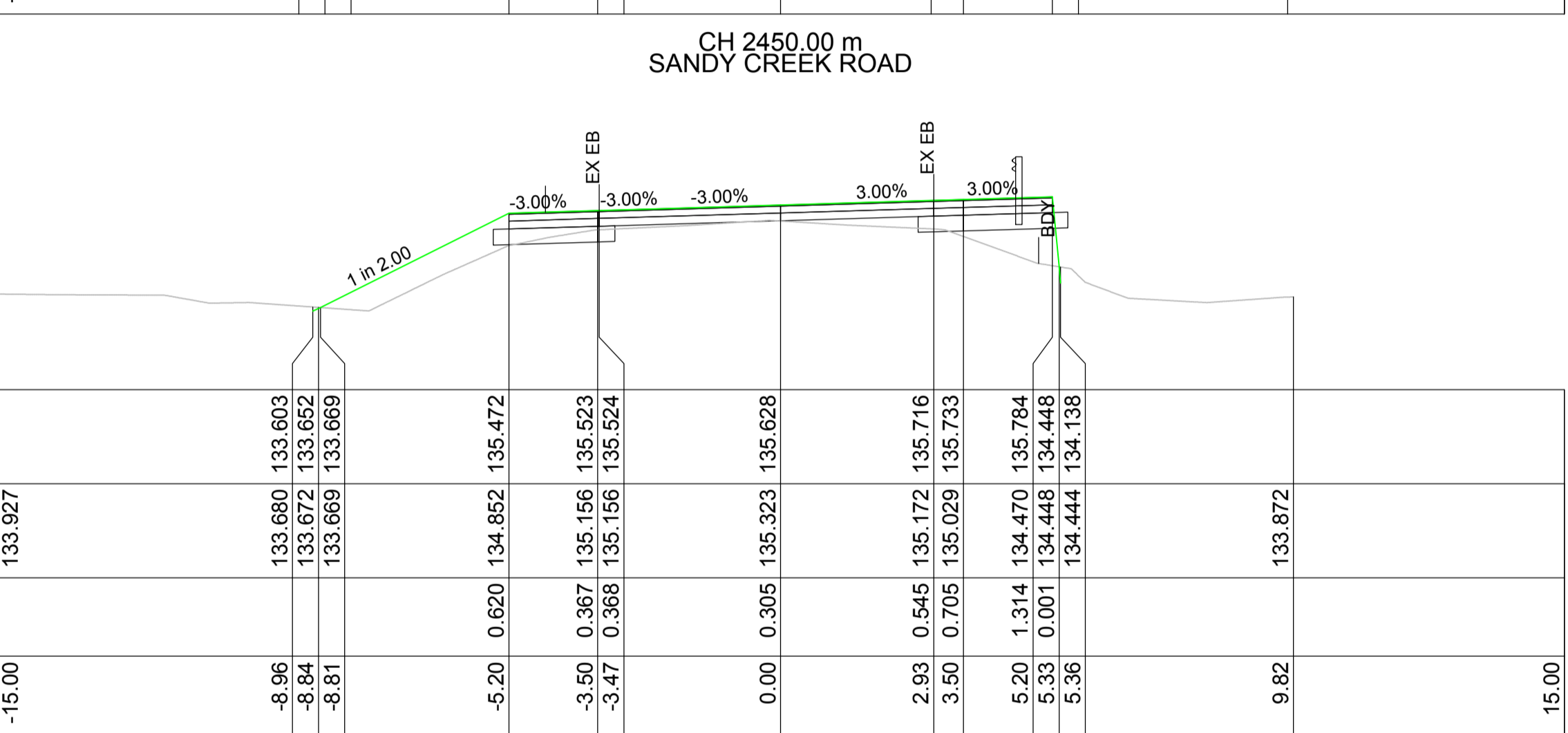
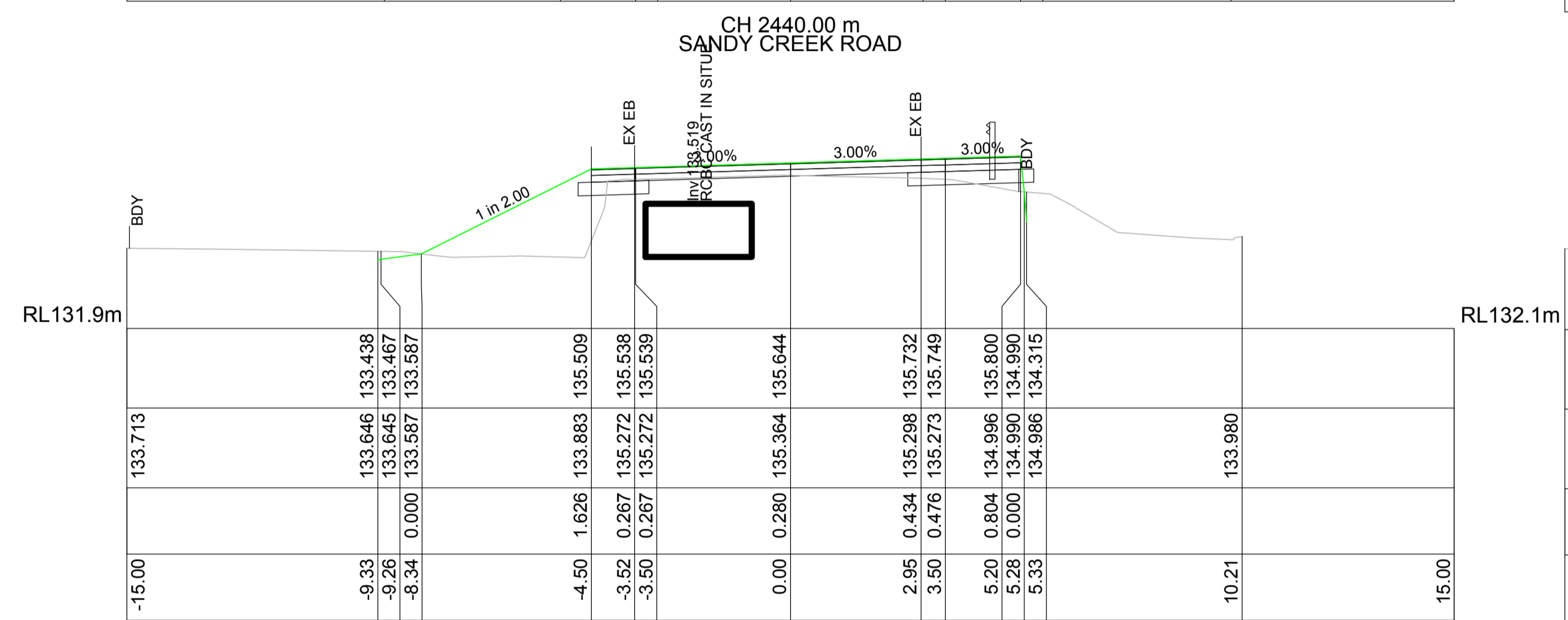
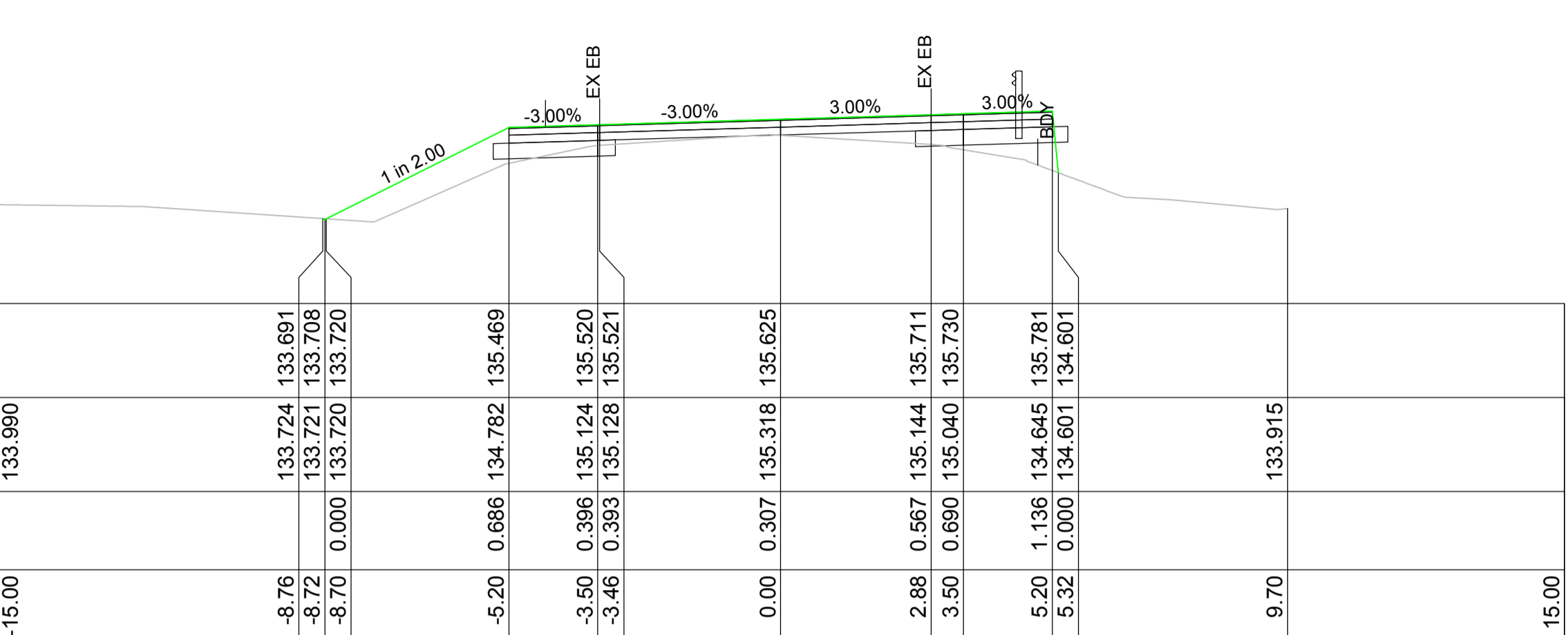
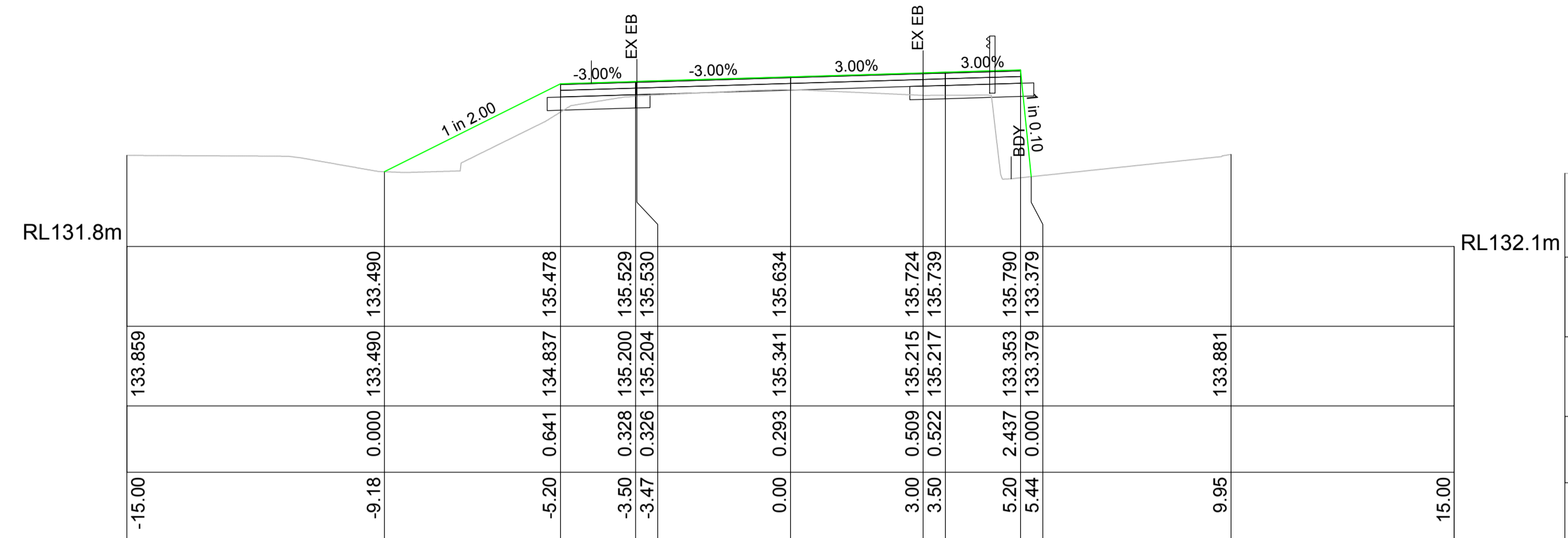


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SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL		
DESIGN:	M.M	PROJECT:	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG		
DRAWN:	M.M	DRAWING TITLE:	CROSS SECTIONS SHEET 63 OF 72		
CHECKED:	M.M	DATE:	11.08.2023	APPROVED:	M.M
PLAN:	1:100 (A1)	LONGITUDINAL SECTION:	HORIZ. N/A	CROSS SECTION:	HORIZ. 1:100
		VERT.:	N/A	VERT.:	1:100

PROJECT No AL22077  
 DWG No C05-76  
 SHEET 76 OF 116 SHEETS

PROJECT No	AL22077	REVISION	1
DWG No	C05-76	CONSTRUCTION	
2 1 0 2 4 6			
1:100 (A1)			



1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE

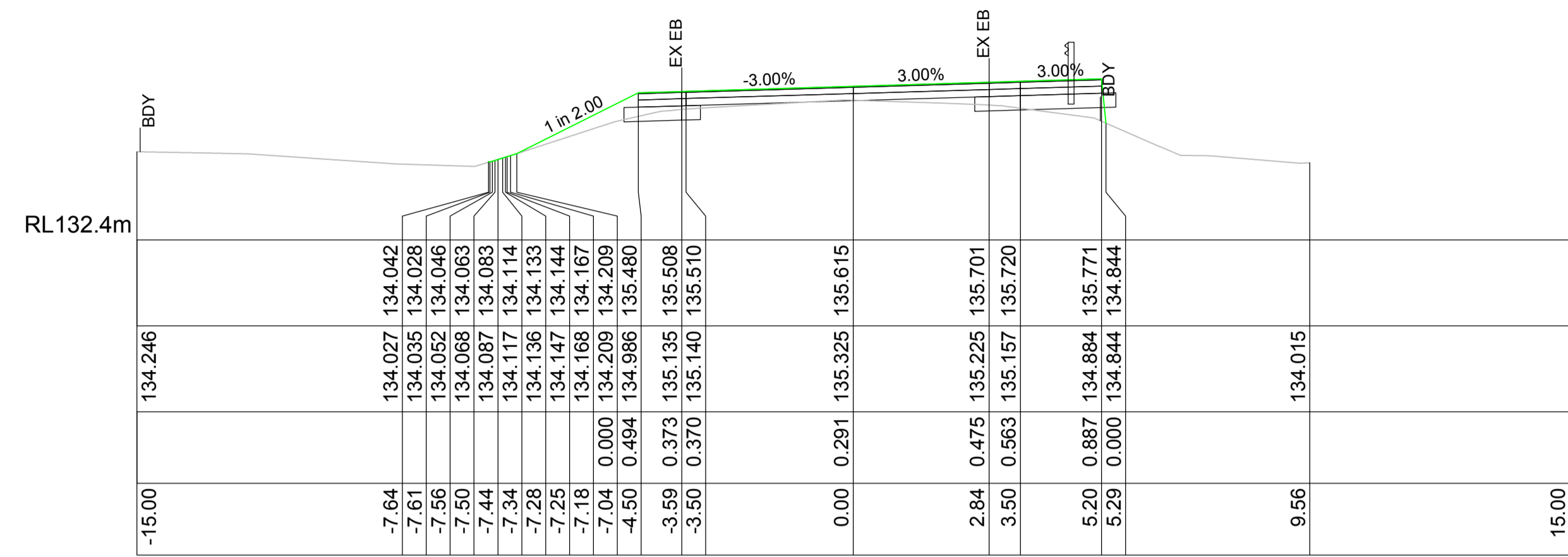


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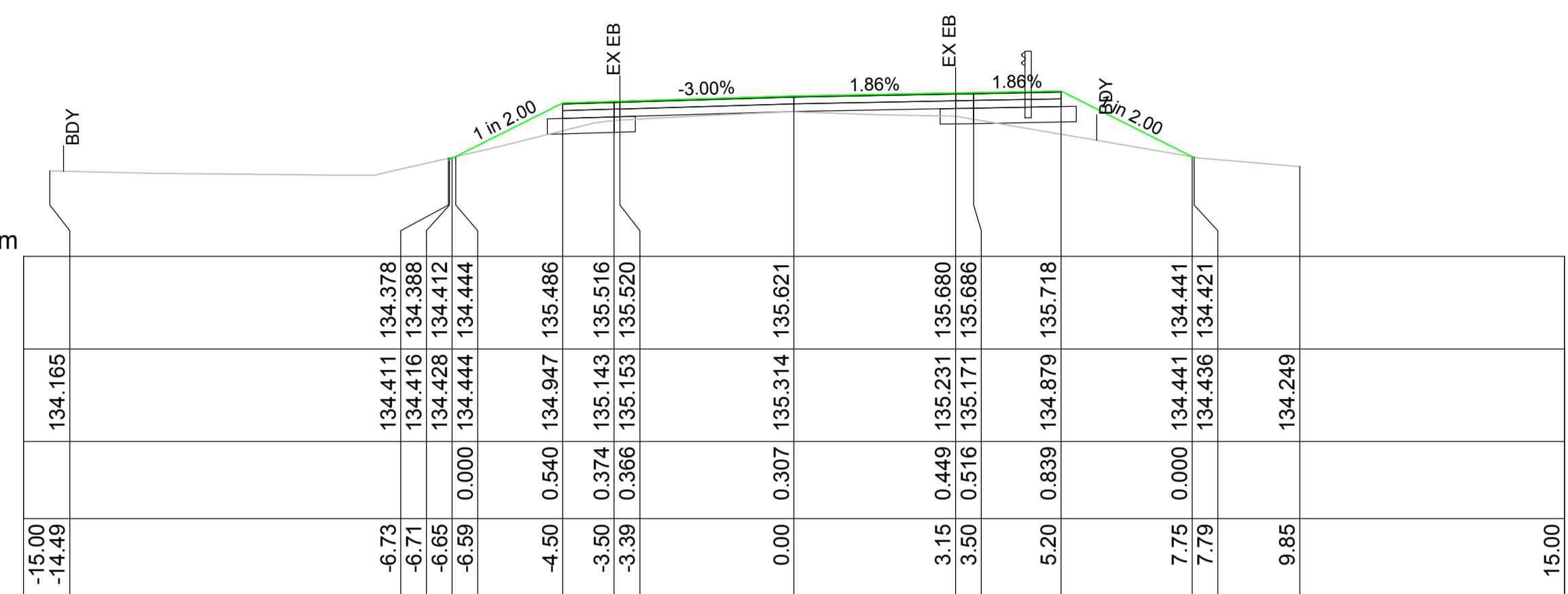
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DESIGN:	M.M		
DRAWN:	M.M		
CHECKED:	M.M		
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION HORIZ. N/A VERT. N/A
APPROVED:	M.M	CROSS SECTION:	HORIZ. 1:100 VERT. 1:100

PROJECT  
**LOCAL ROAD RENEWAL  
 STAGE 1 & STAGE 2  
 SANDY CREEK ROAD, QUORROBOLONG**  
 DRAWING TITLE  
**CROSS SECTIONS SHEET 64 OF 72**  
**SHEET 77 OF 116 SHEETS**

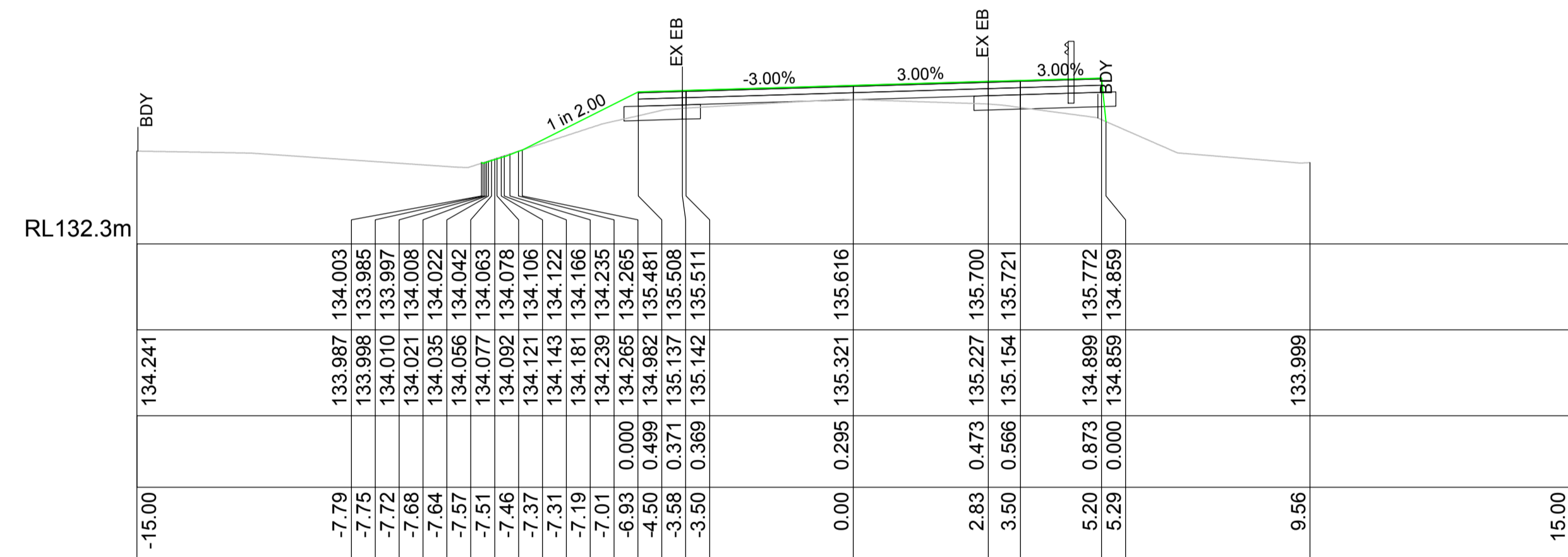
PROJECT No	AL22077	REVISION	1
DWG No	C05-77		



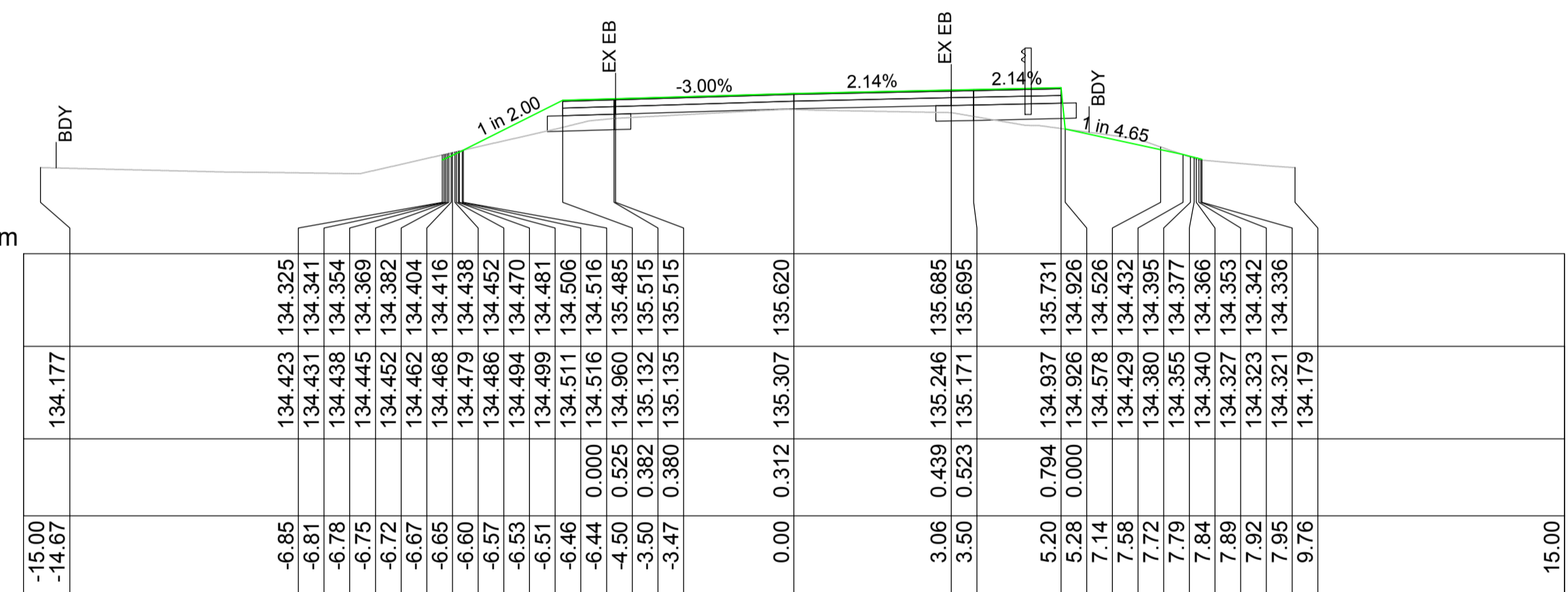
CH 2472.32 m  
SANDY CREEK ROAD



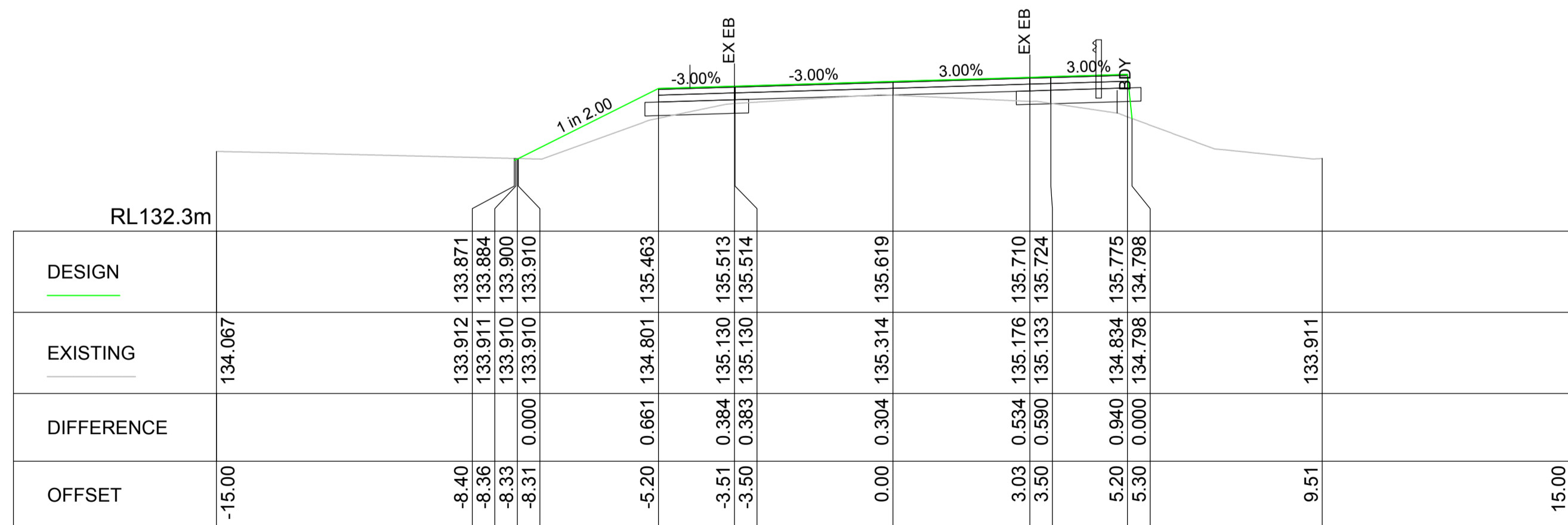
CH 2493.32 m  
SANDY CREEK ROAD



CH 2470.00 m  
SANDY CREEK ROAD



CH 2490.00 m  
SANDY CREEK ROAD



CH 2460.00 m  
SANDY CREEK ROAD



CH 2480.00 m  
SANDY CREEK ROAD

	DESIGN	EXISTING	DIFFERENCE	OFFSET
RL132.3m	134.067	134.067		-15.00
		133.912	8.40	
		133.911	8.36	
		133.910	8.33	
		133.910	8.31	0.000
		134.801	5.20	0.661
		135.513	3.51	0.384
		135.514	3.50	0.383
		135.619	0.00	0.304
		135.710	3.03	0.534
		135.724	3.50	0.590
		135.775	5.20	0.940
		134.798	5.30	0.000
		133.911	9.51	
15.00				15.00

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

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0466 253 917

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SURVEY:	DELFS LASCELLES
DESIGN:	M.M
DRAWN:	M.M
CHECKED:	M.M
DATE:	11.08.2023
APPROVED:	M.M

CLIENT	CESSNOCK CITY COUNCIL
PLAN:	LONGITUDINAL SECTION HORIZ. N/A VERT. N/A
CROSS SECTION	HORIZ. 1:100 VERT. 1:100

PROJECT  
**LOCAL ROAD RENEWAL  
 STAGE 1 & STAGE 2  
 SANDY CREEK ROAD, QUORROBOLONG**

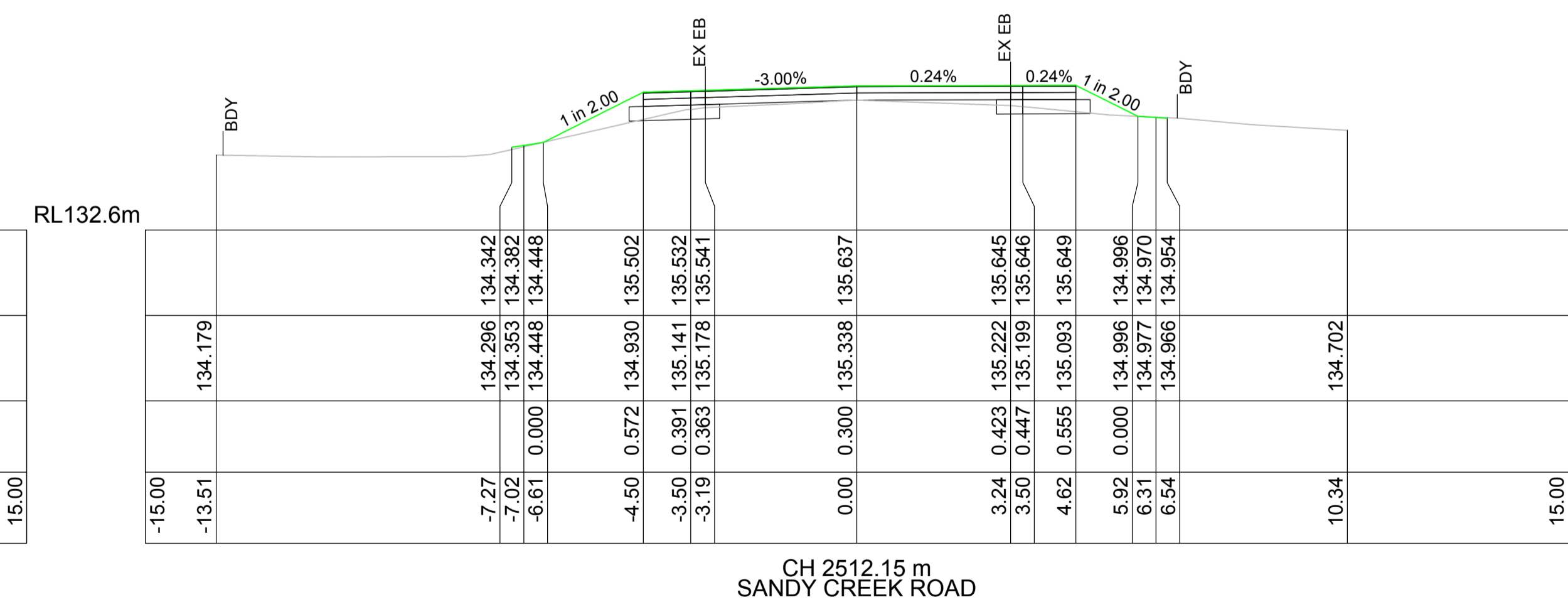
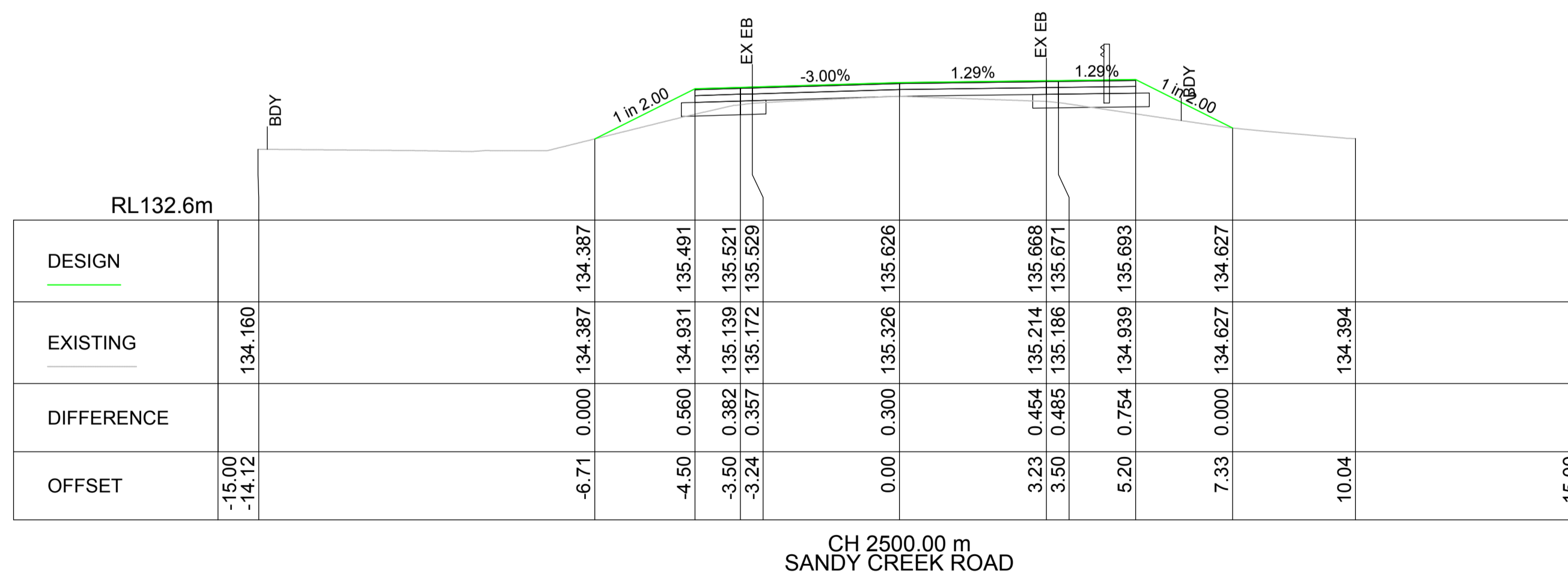
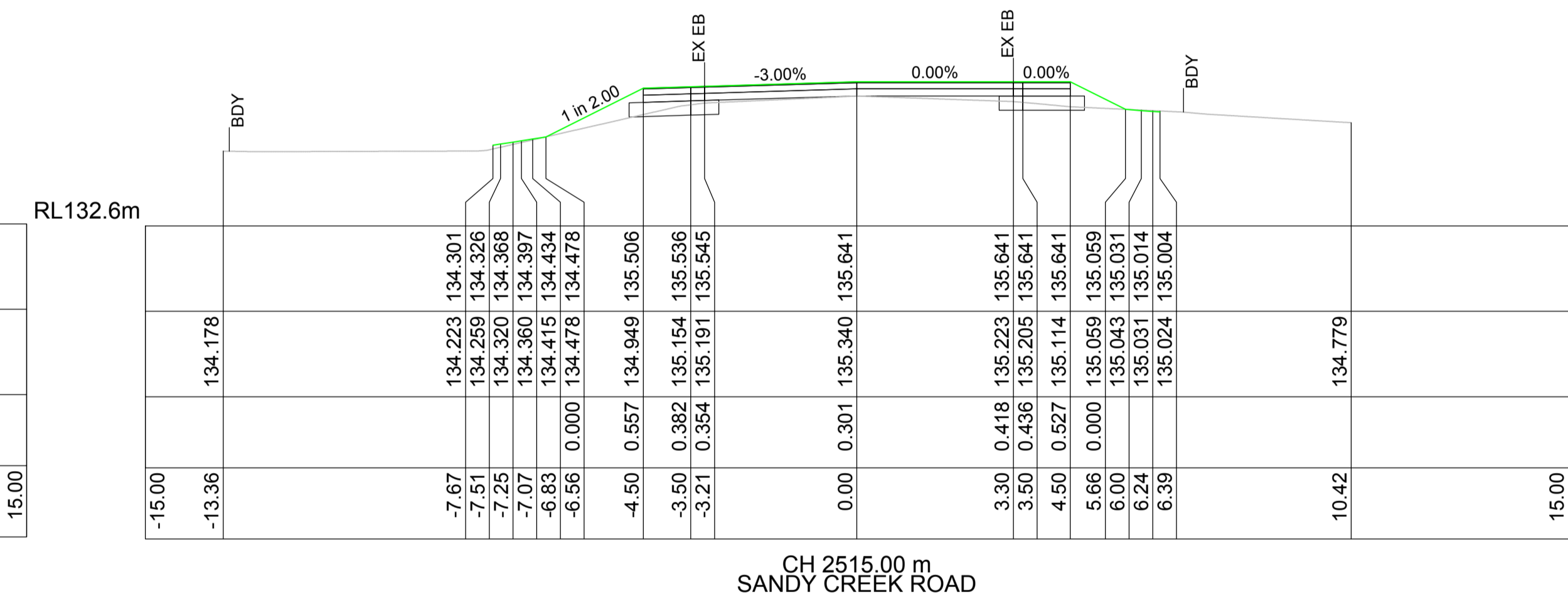
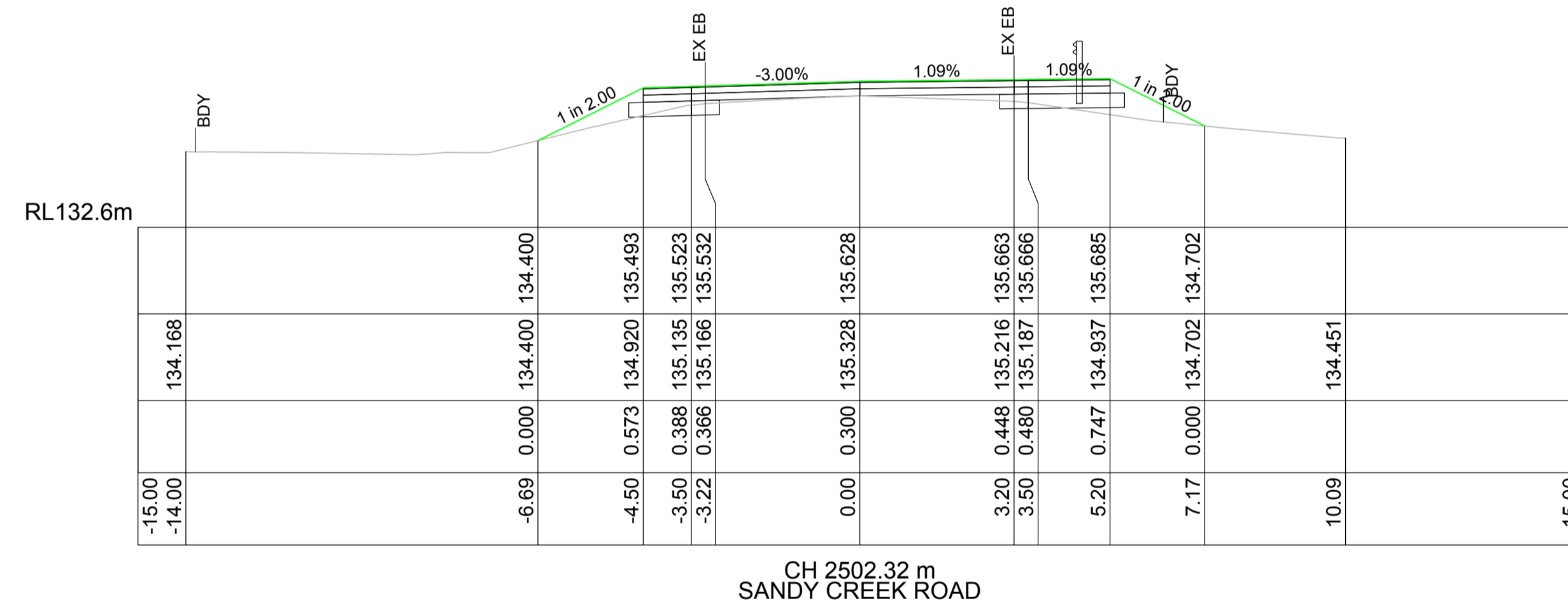
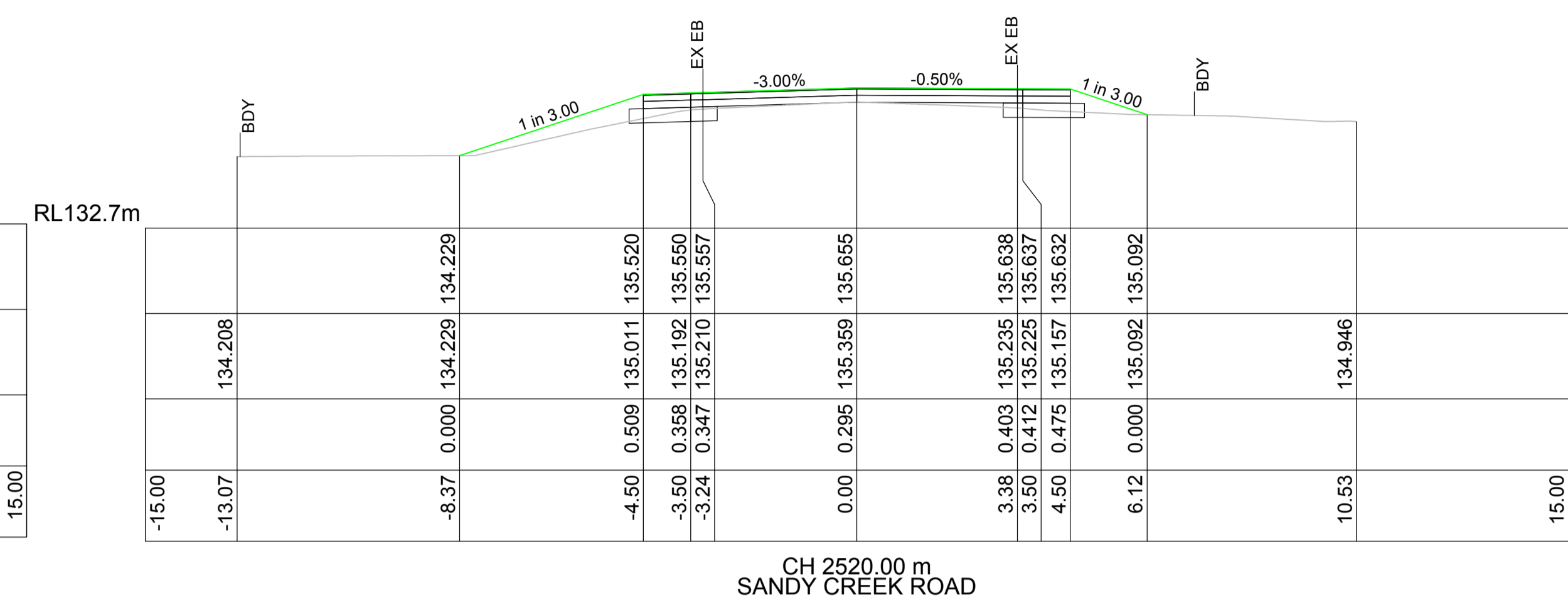
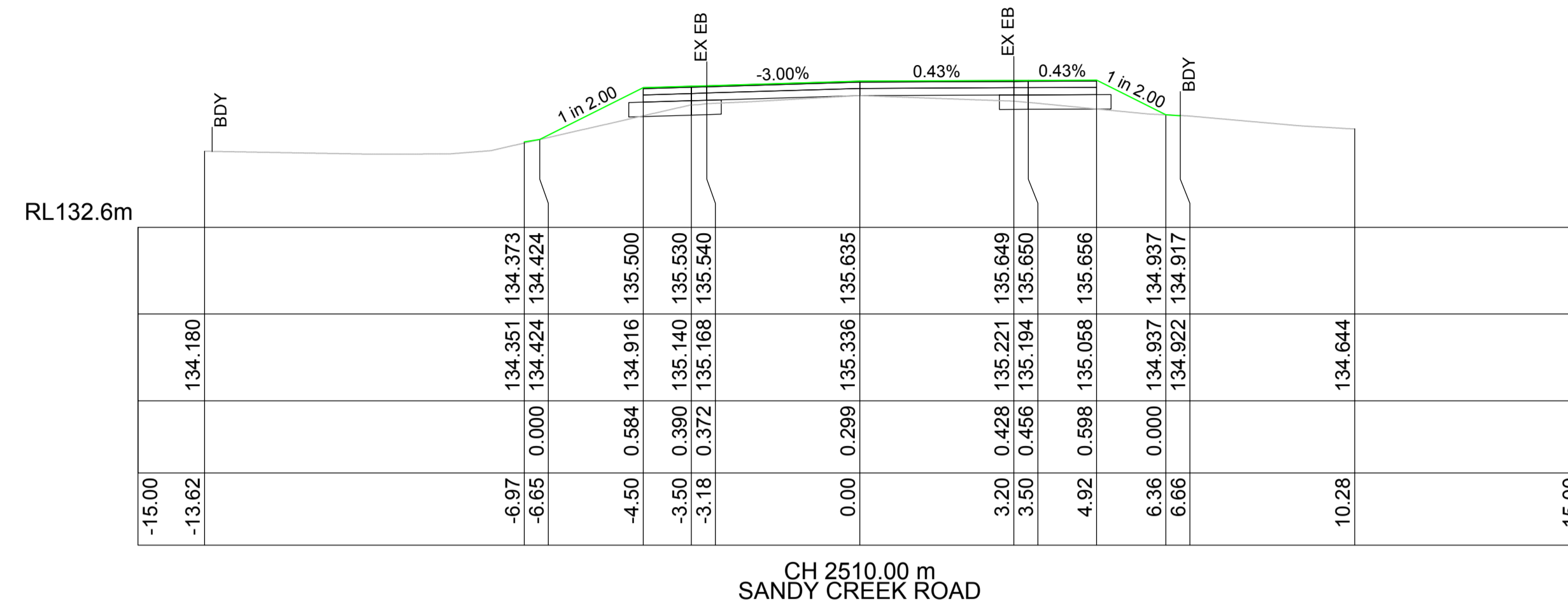
DRAWING TITLE  
**CROSS SECTIONS SHEET 65 OF 72**

**SHEET 78 OF 116 SHEETS**

PROJECT No	AL22077	REVISION	1
DWG No	C05-78		

**CONSTRUCTION**

2 1 0 2 4 6  
 1:100 (A1)



DESIGN	EXISTING	DIFFERENCE	OFFSET
	134.160		
	134.387	0.00	-6.71
	134.931	0.560	-4.50
	135.521	0.382	-3.50
	135.529	0.357	-3.24
	135.626	0.300	0.00
	135.668	0.454	3.23
	135.671	0.485	3.50
	135.693	0.754	5.20
	134.627	0.000	7.33
	134.394	0.000	10.04
	15.00		15.00

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

AL Civil Design  
5 Yew Street  
GILLIESTON HEIGHTS NSW 2321  
0466 253 917

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SURVEY: DELFS LASCELLES	CLIENT: CESSNOCK CITY COUNCIL
DESIGN: M.M	
DRAWN: M.M	
CHECKED: M.M	
DATE: 11.08.2023	PLAN: LONGITUDINAL SECTION CROSS SECTION
APPROVED: M.M	1:100 (A1)
	HORIZ. N/A HORIZ. 1:100
	VERT. N/A VERT. 1:100

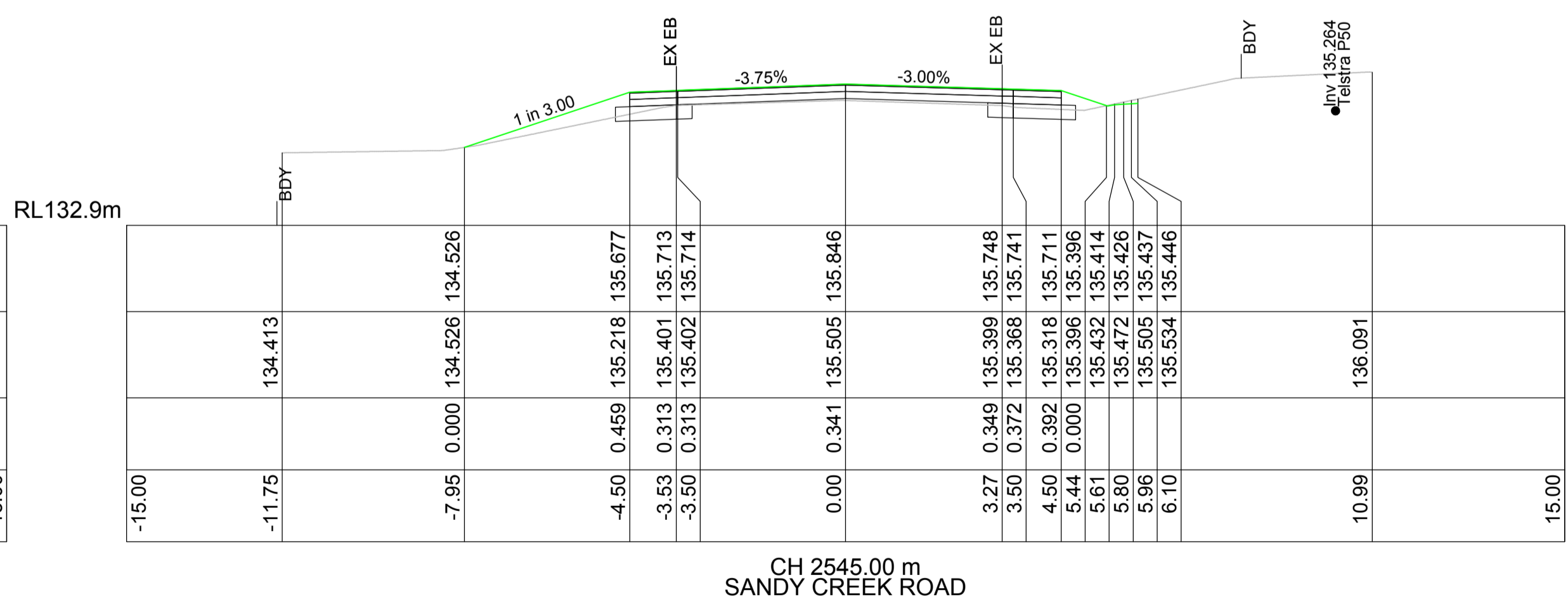
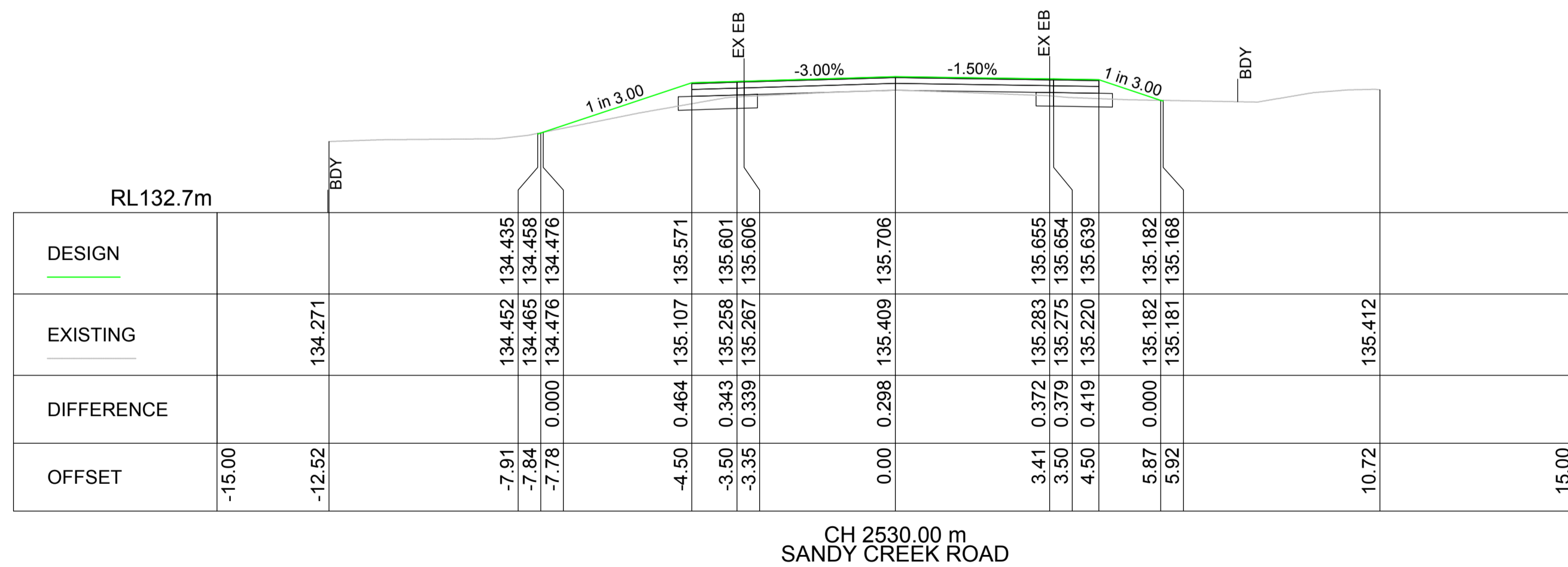
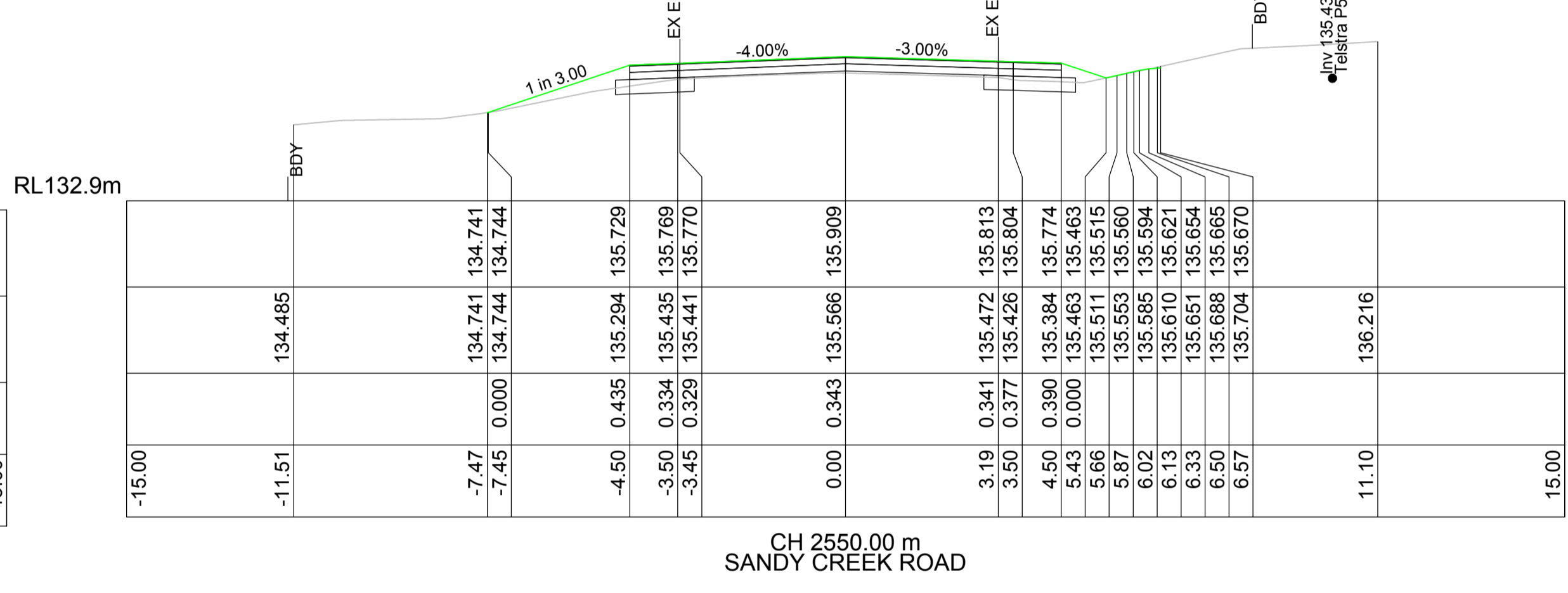
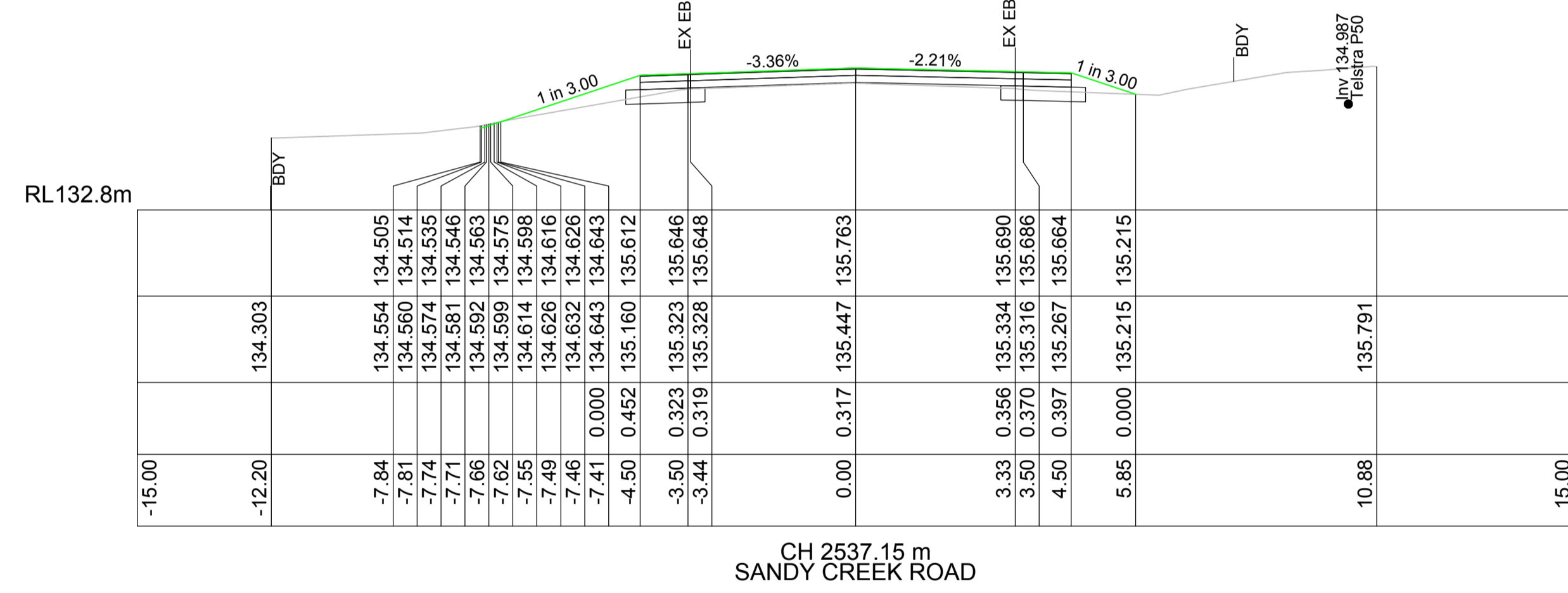
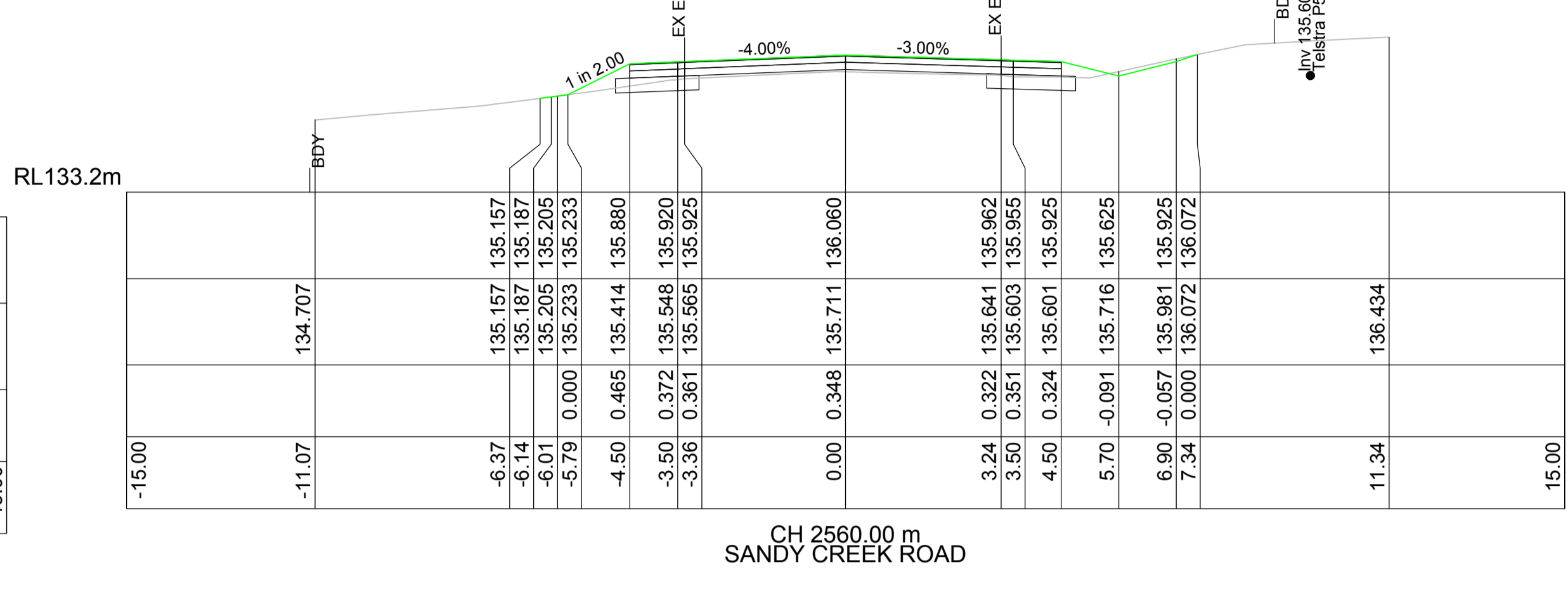
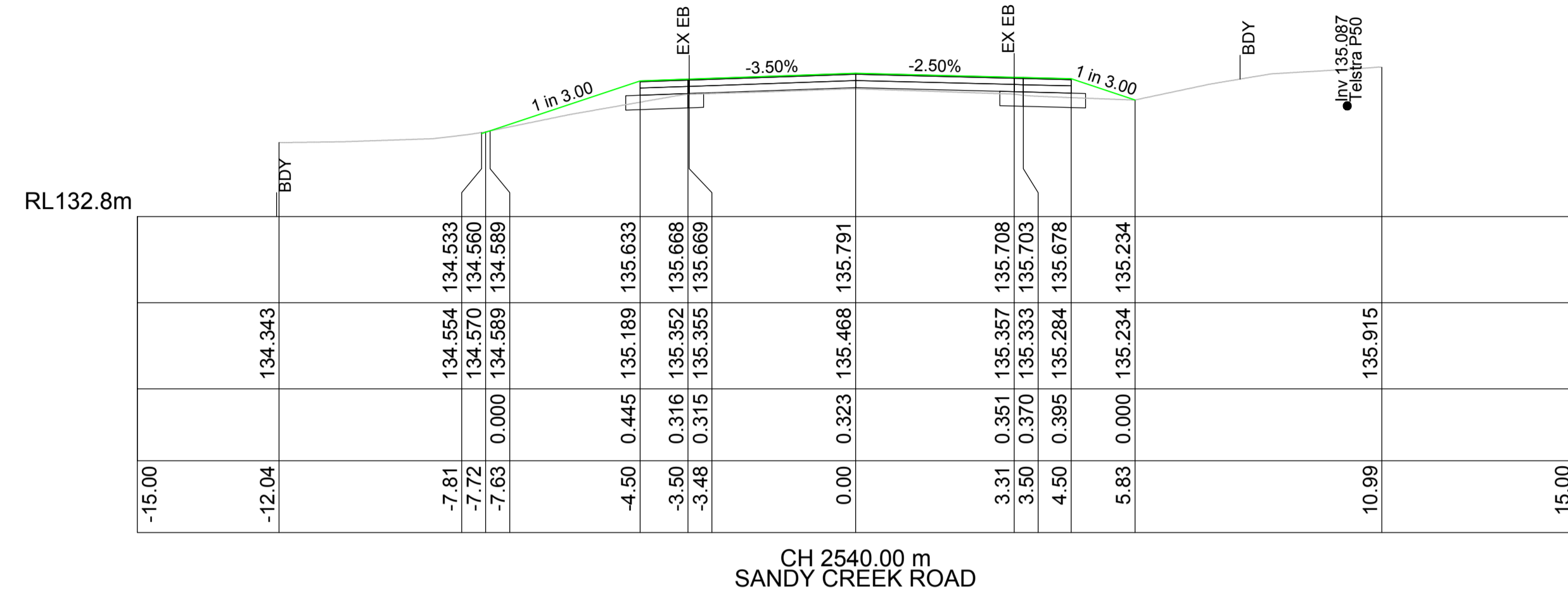
PROJECT  
**LOCAL ROAD RENEWAL  
 STAGE 1 & STAGE 2  
 SANDY CREEK ROAD, QUORROBOLONG**

DRAWING TITLE  
**CROSS SECTIONS SHEET 66 OF 72**

**SHEET 79 OF 116 SHEETS**

PROJECT No <b>AL22077</b>	REVISION <b>1</b>
DWG No <b>C05-79</b>	
<b>CONSTRUCTION</b>	
 1:100 (A1)	





REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

AL CIVIL DESIGN  
5 Yew Street  
GILLJESTON HEIGHTS NSW 2321  
0466 253 917

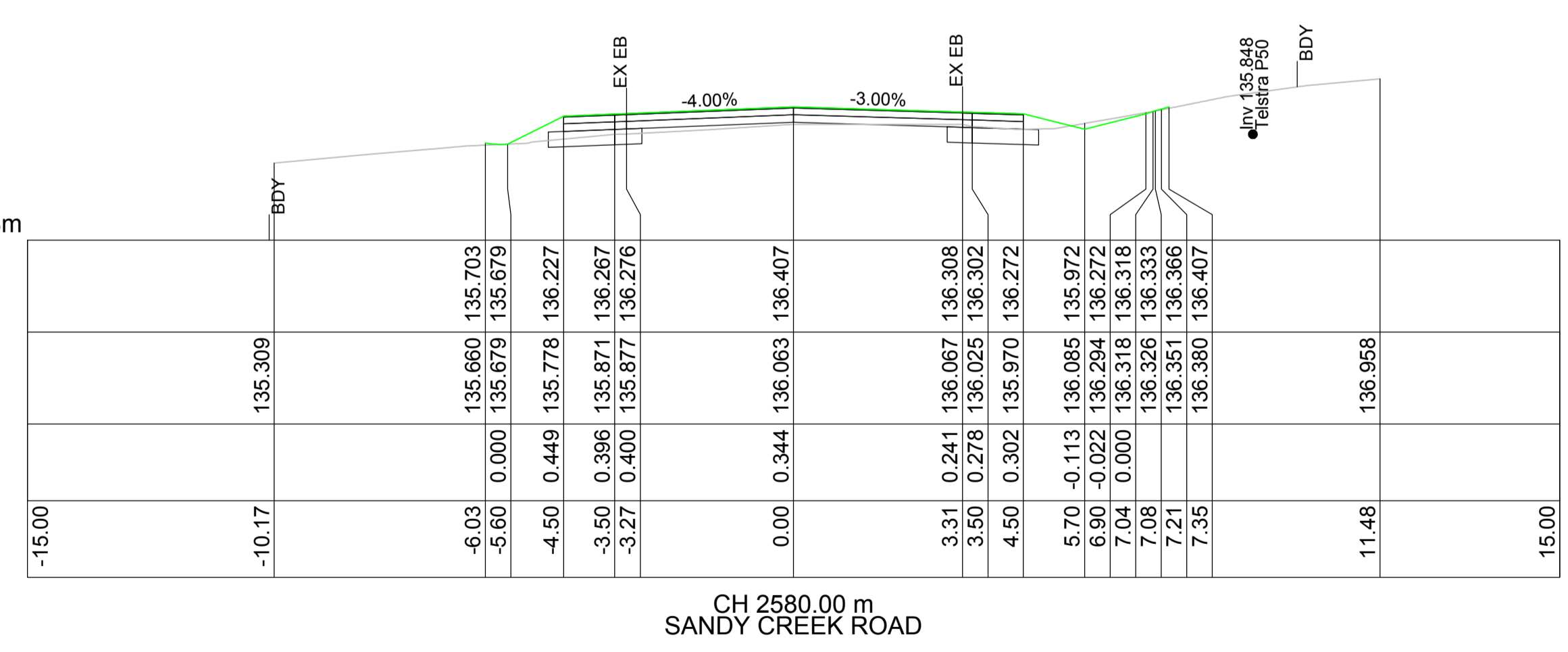
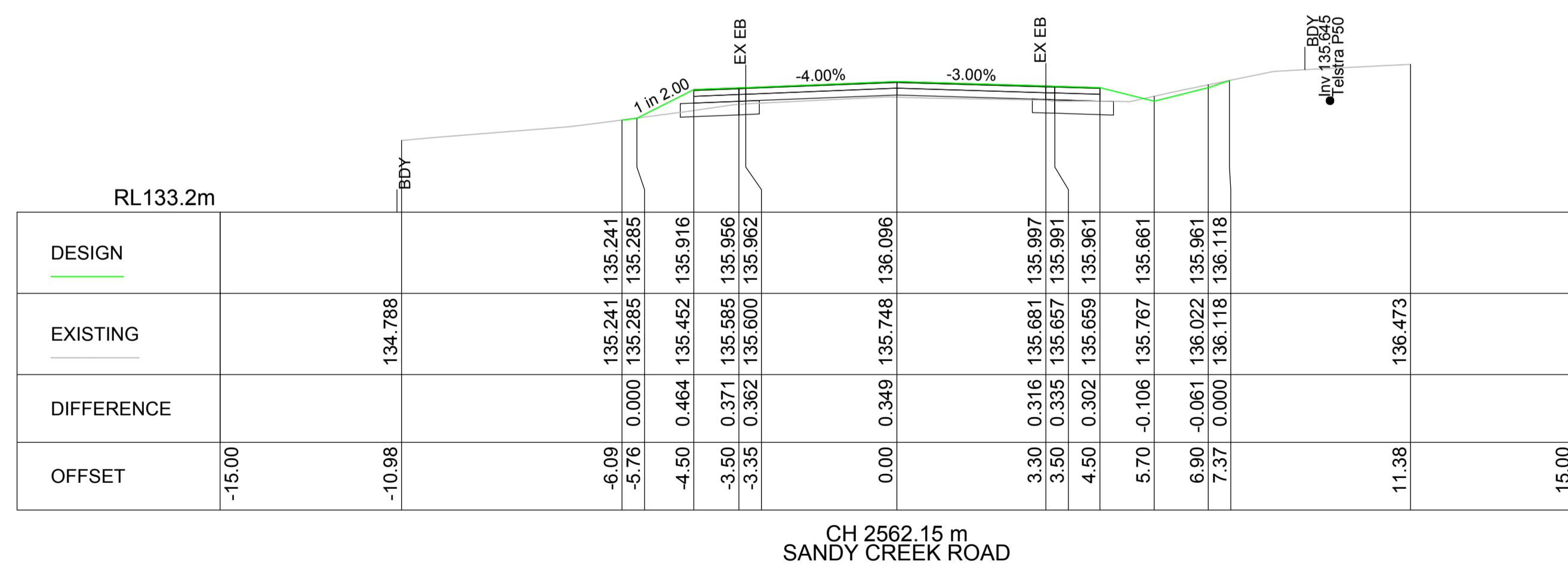
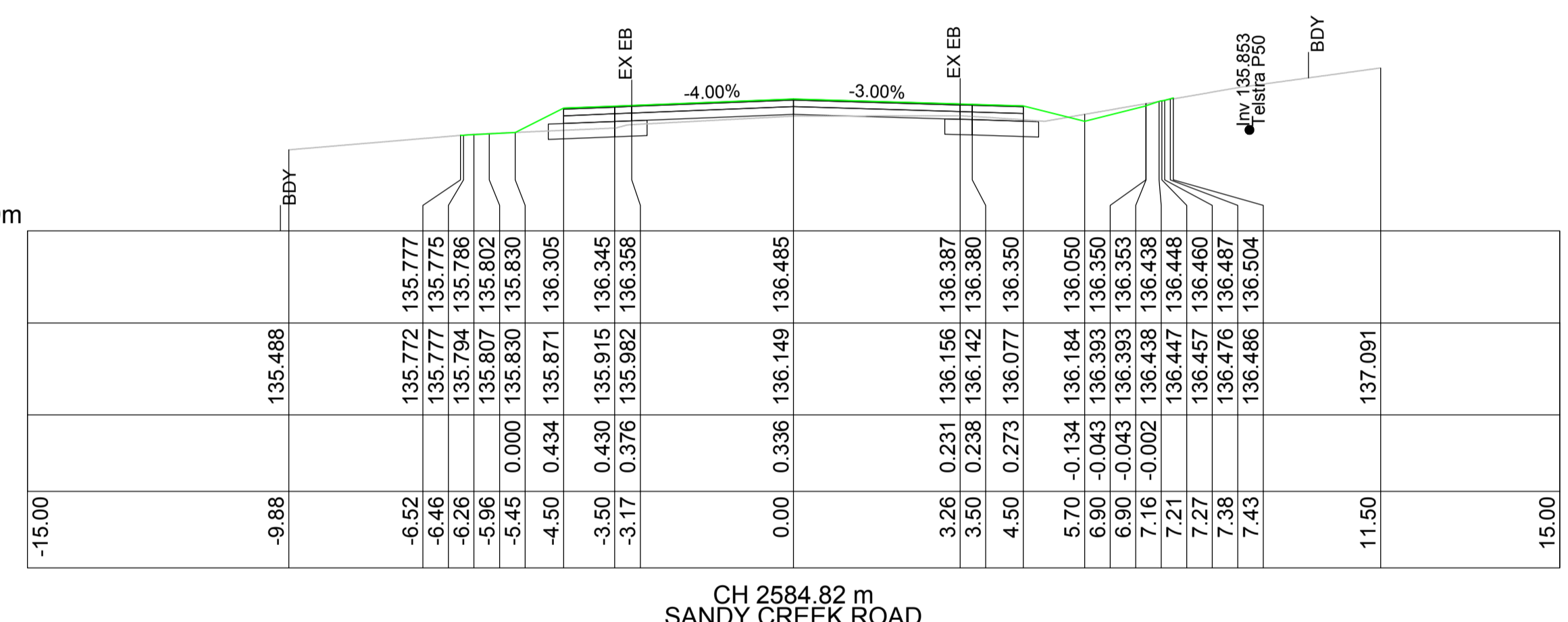
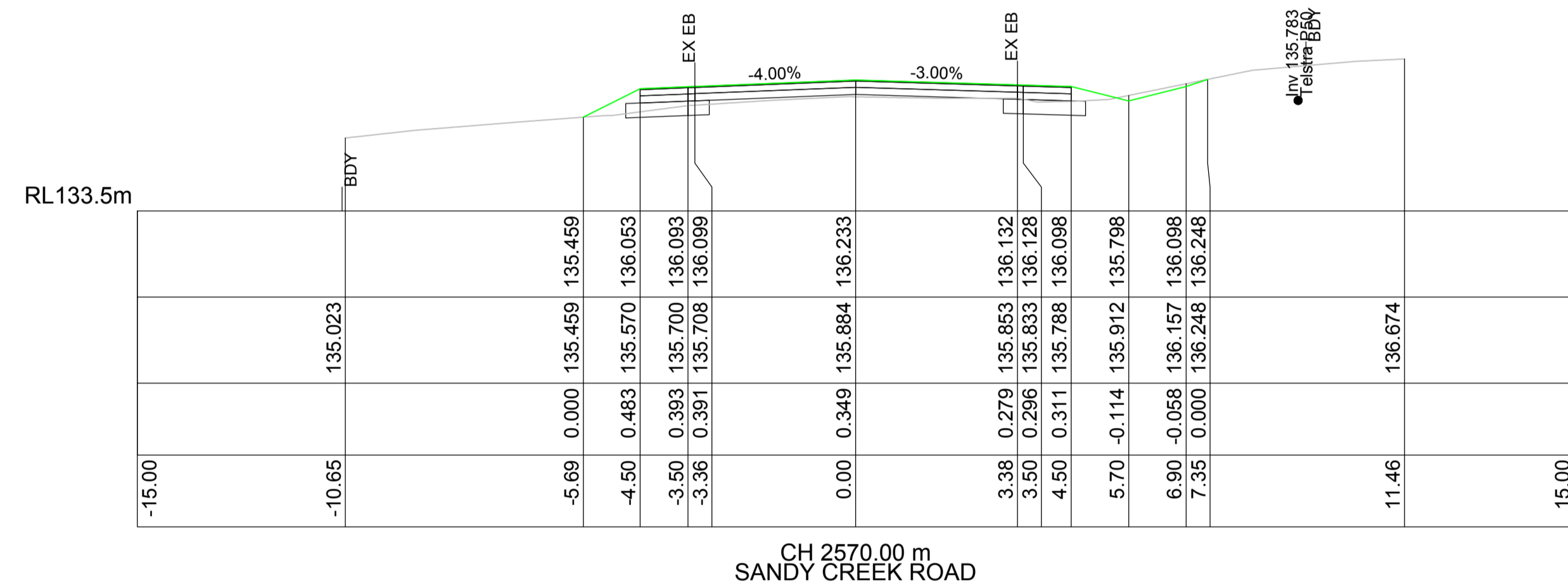
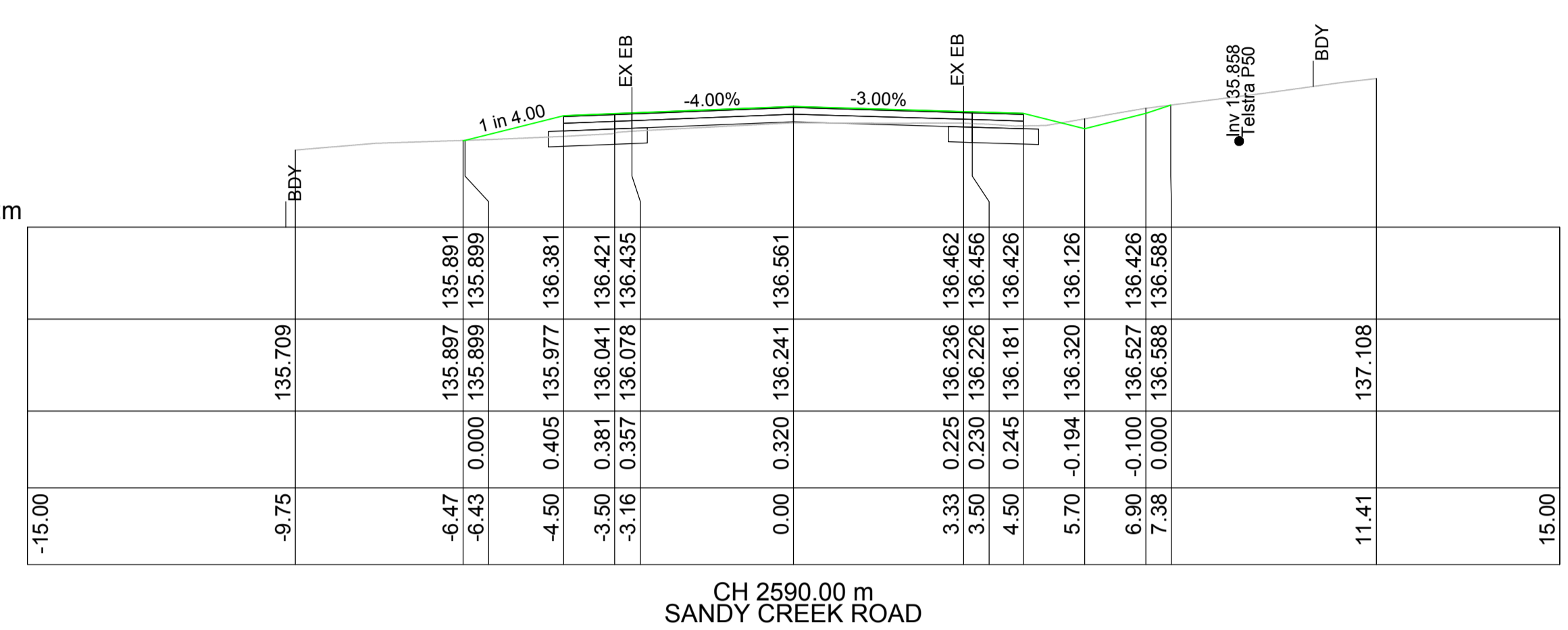
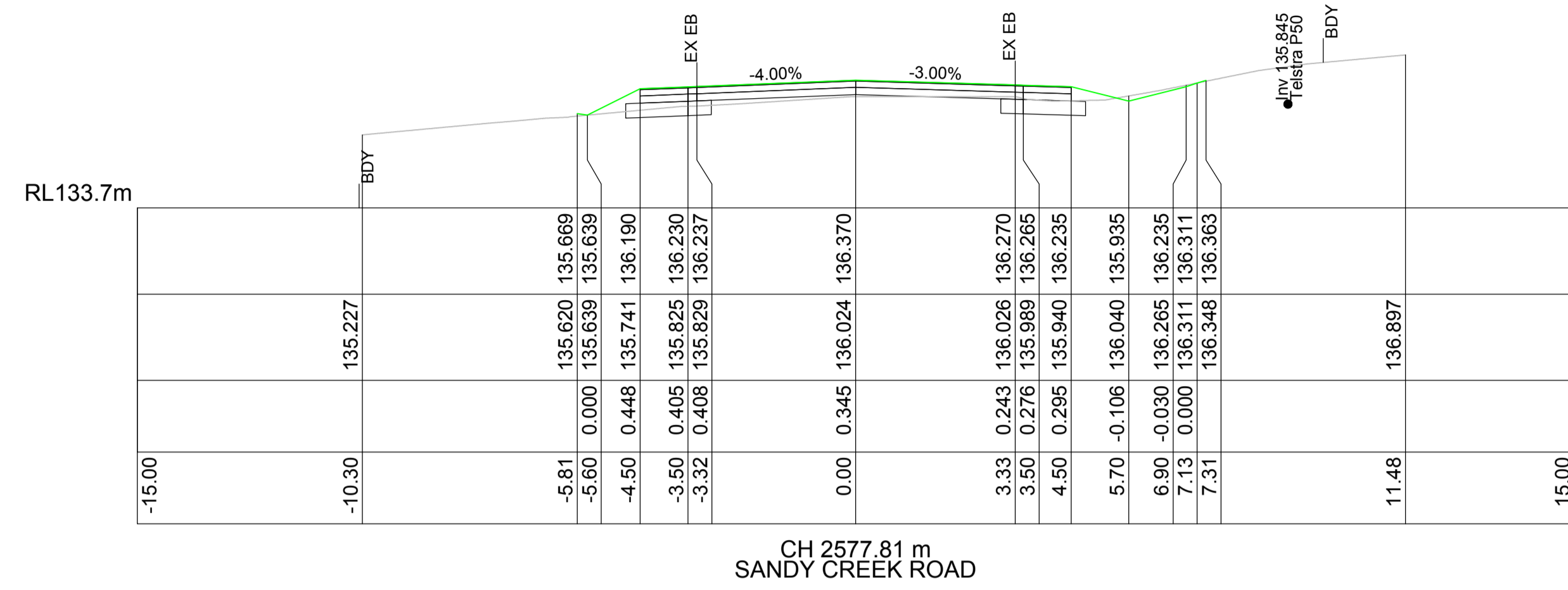
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SURVEY: DELFS LASCELLES  
 DESIGN: M.M  
 DRAWN: M.M  
 CHECKED: M.M  
 DATE: 11.08.2023  
 APPROVED: M.M

CLIENT  
**CESSNOCK CITY COUNCIL**  
 PLAN:  
 1:100 (A1)  
 LONGITUDINAL SECTION  
 HORIZ. N/A  
 VERT. N/A  
 CROSS SECTION  
 HORIZ. 1:100  
 VERT. 1:100

PROJECT  
**LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG**  
 DRAWING TITLE  
**CROSS SECTIONS SHEET 67 OF 72**  
**SHEET 80 OF 116 SHEETS**

PROJECT No  
**AL22077**  
 DWG No  
**C05-80**  
**CONSTRUCTION**  
 2 1 0 2 4 6  
 1:100 (A1)  
 REVISION  
**1**



REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23



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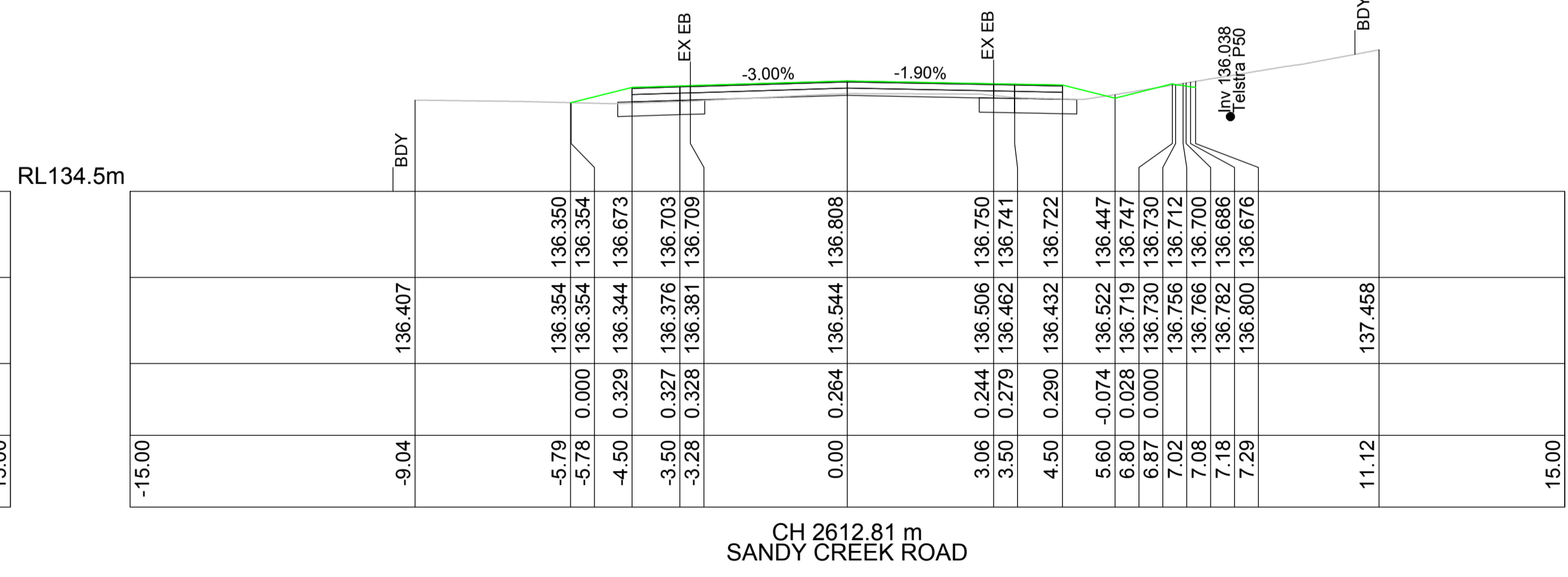
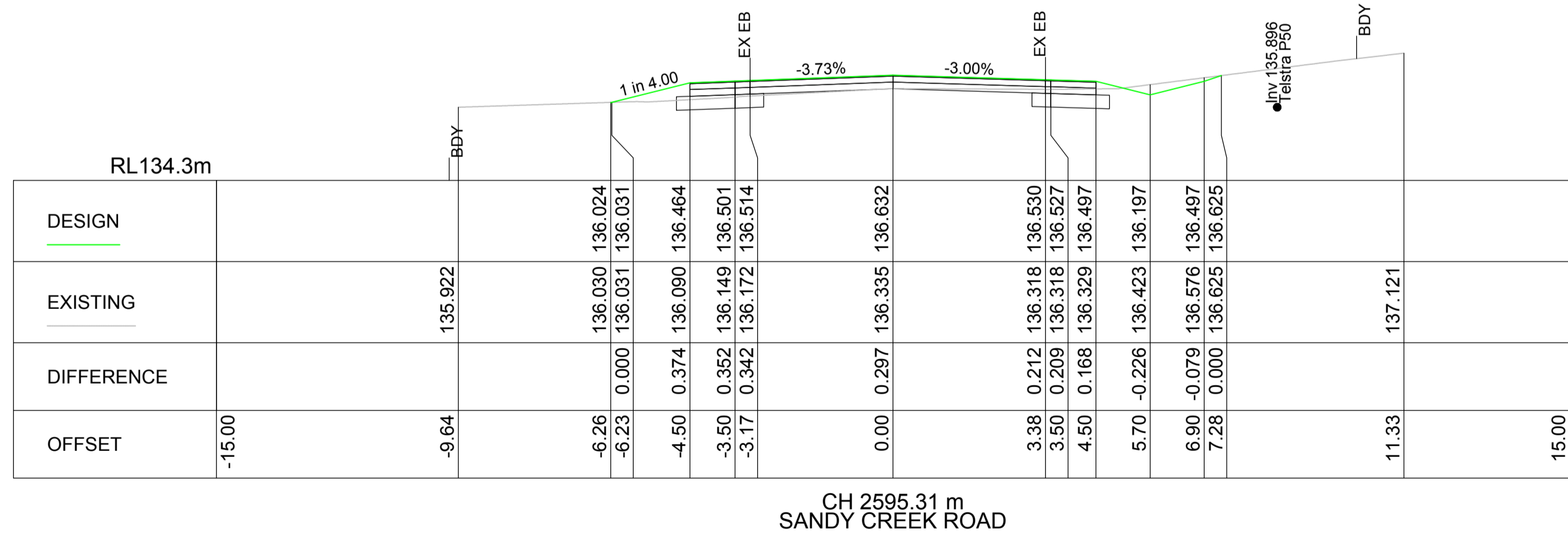
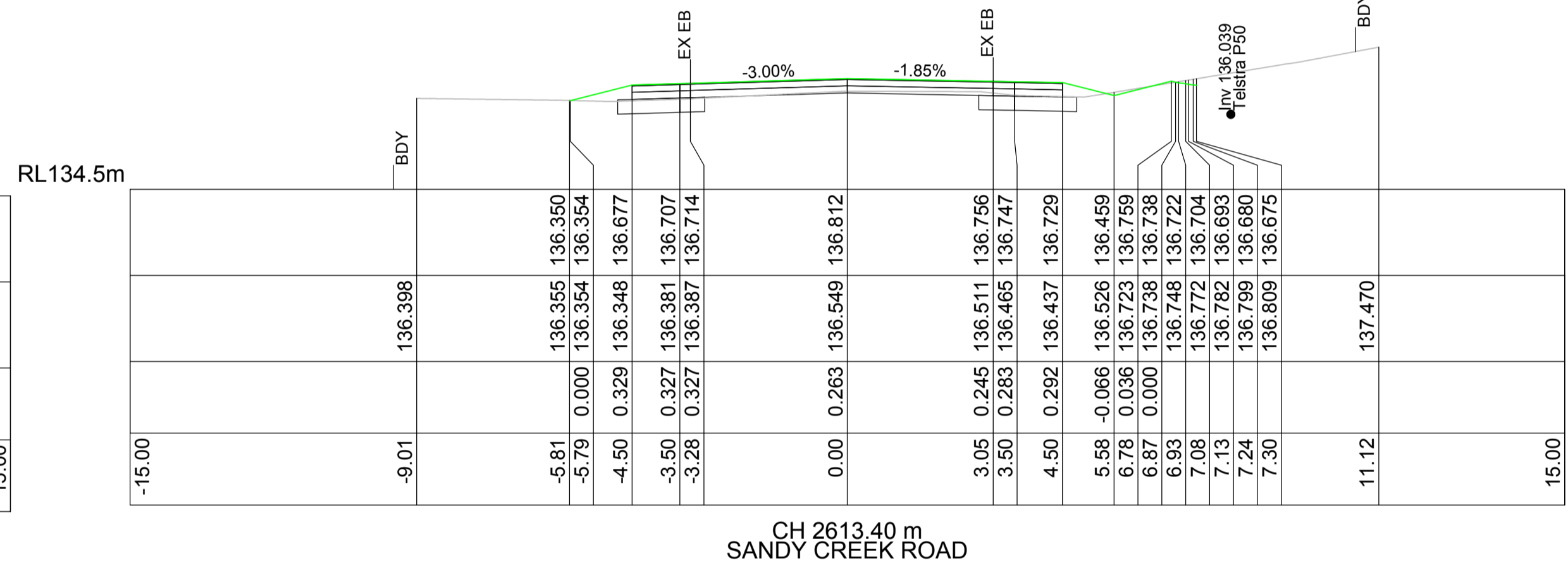
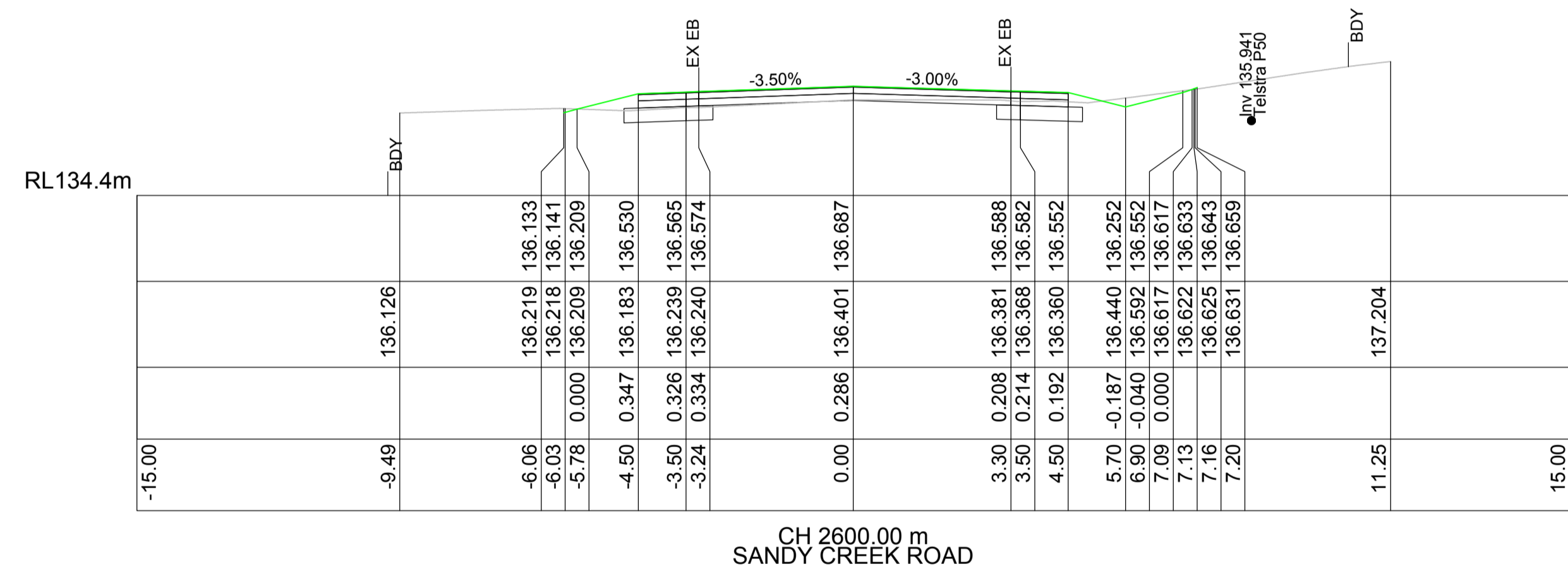
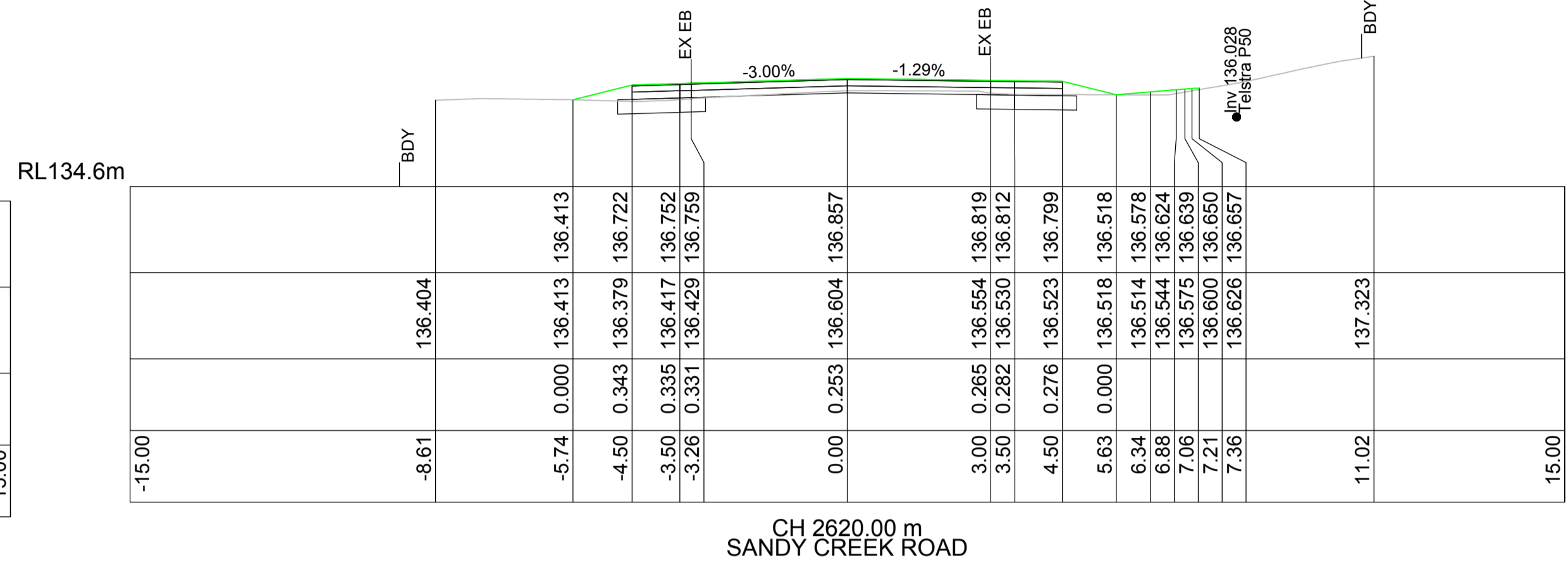
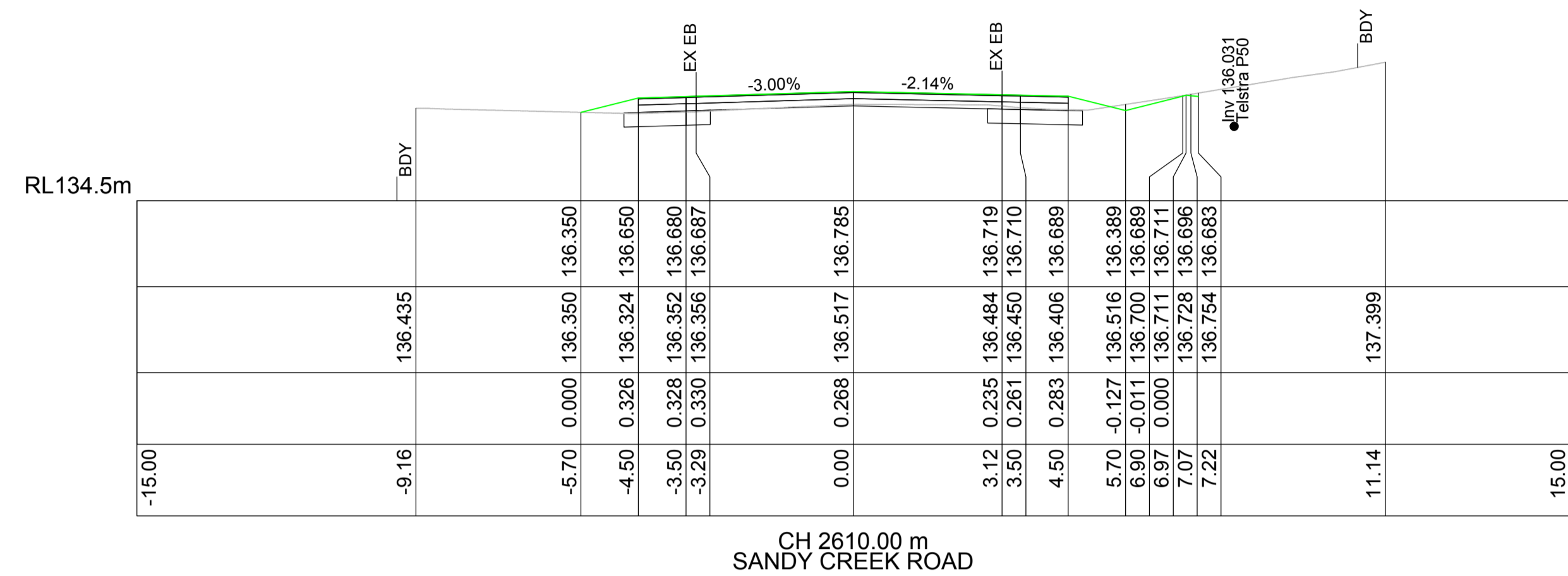
SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M		
DRAWN:	M.M		
CHECKED:	M.M		
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION
APPROVED:	M.M	1:100 (A1)	HORIZ. N/A VERT. N/A
			CROSS SECTION HORIZ. 1:100 VERT. 1:100

PROJECT  
**LOCAL ROAD RENEWAL  
 STAGE 1 & STAGE 2  
 SANDY CREEK ROAD, QUORROBOLONG**

DRAWING TITLE  
**CROSS SECTIONS SHEET 68 OF 72**

**SHEET 81 OF 116 SHEETS**

PROJECT No	AL22077	REVISION	1
DWG No	C05-81		
<b>CONSTRUCTION</b>			



DESIGN																							
EXISTING																							
DIFFERENCE																							
OFFSET	-15.00	-9.64	-6.26	-6.23	-4.50	-3.50	-3.17	0.00	3.38	3.50	4.50	5.70	6.90	7.28	11.33	15.00							

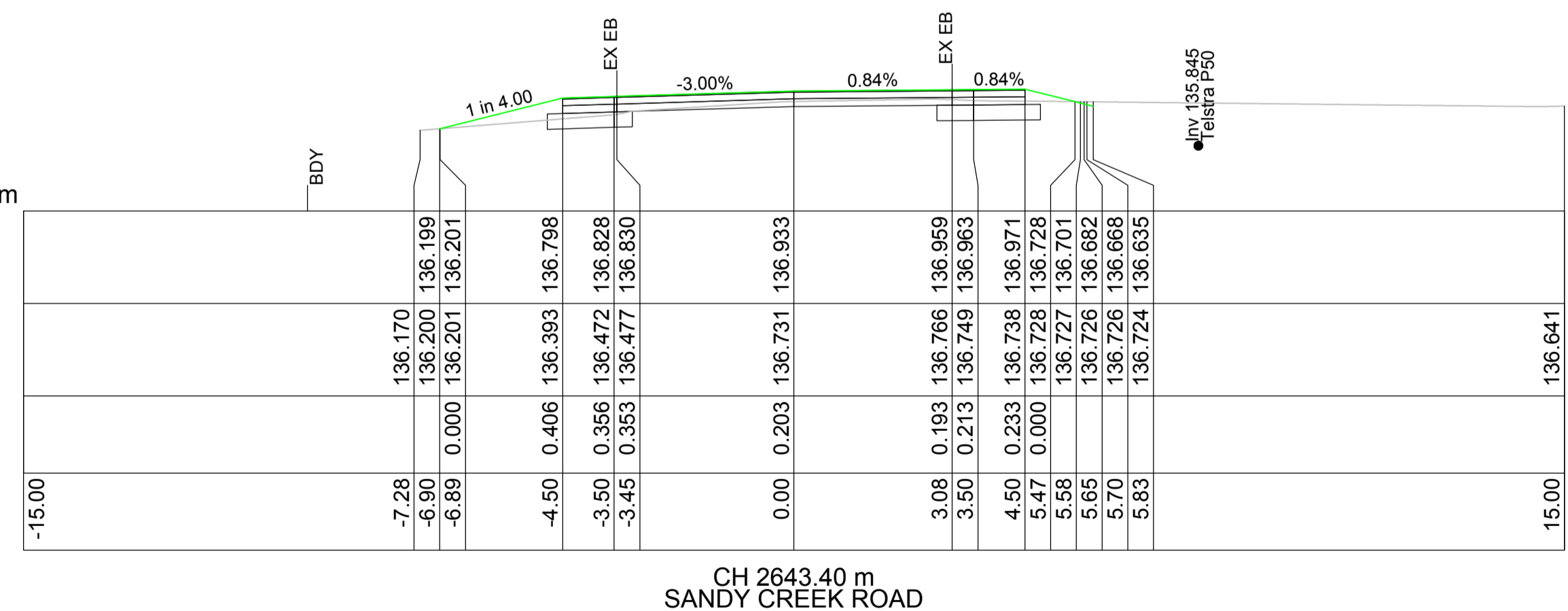
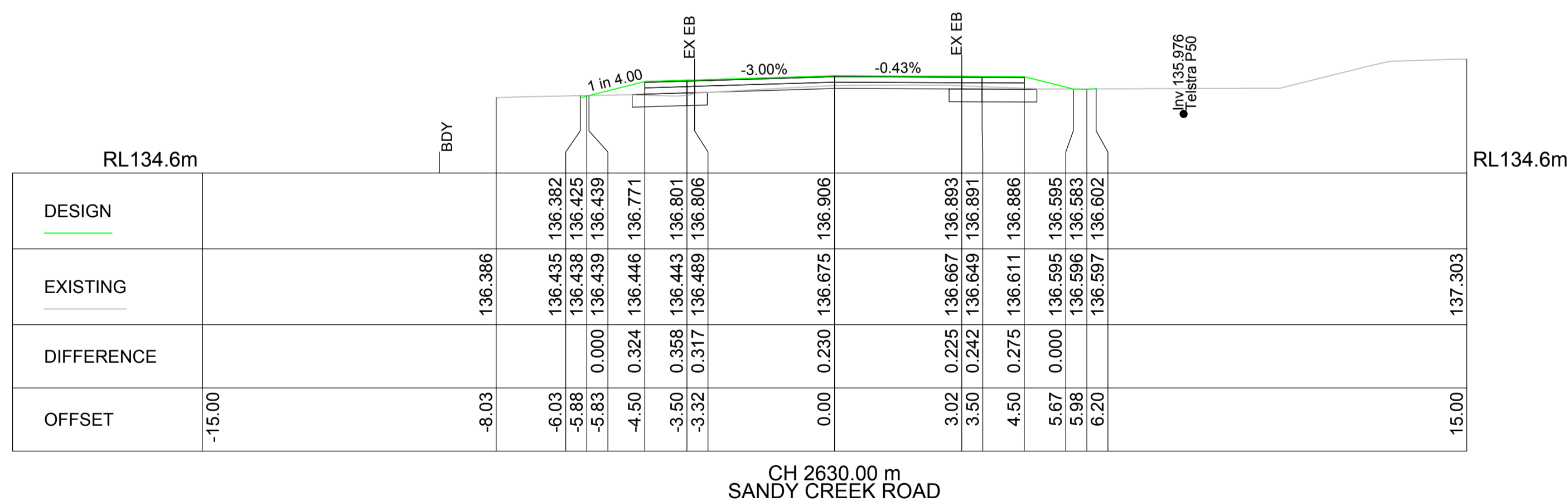
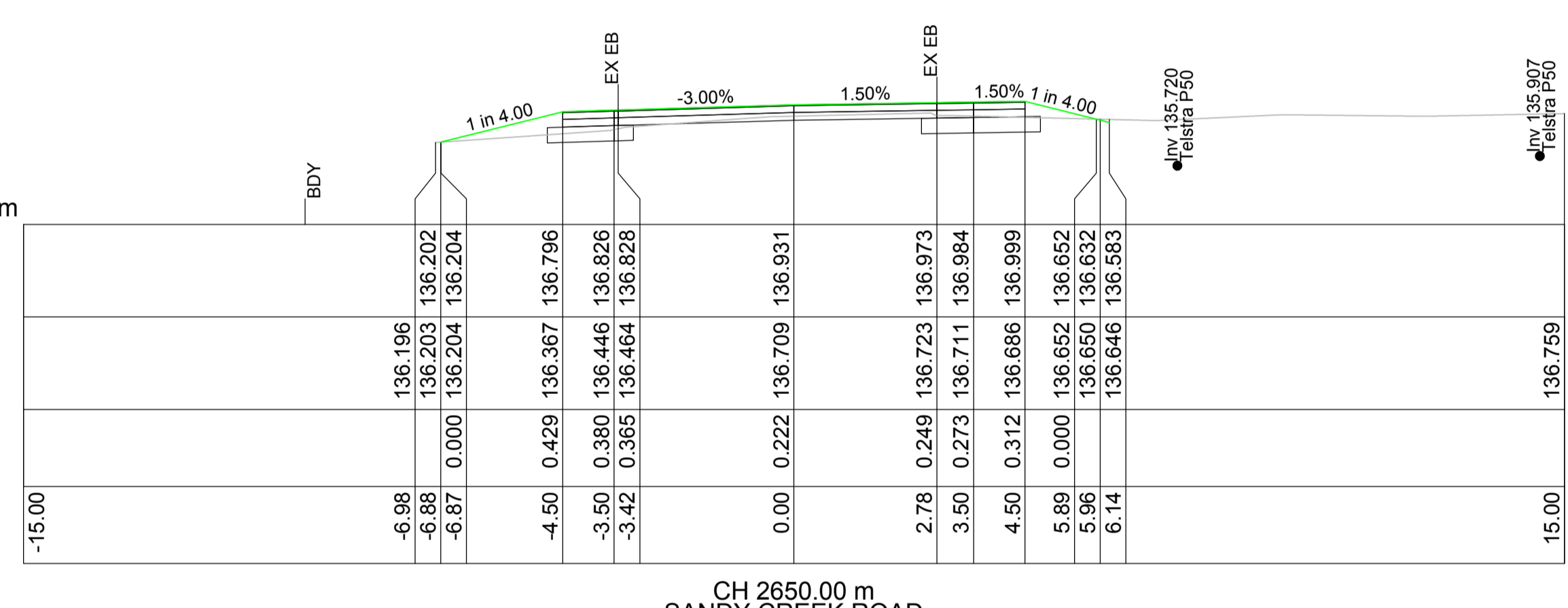
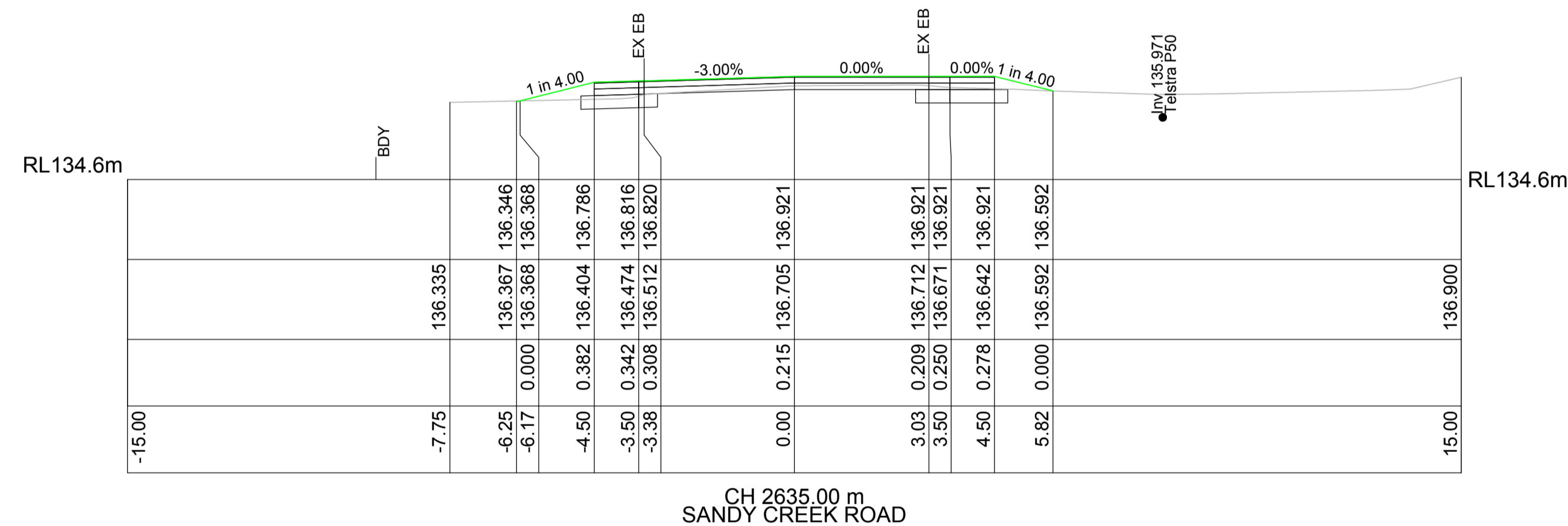
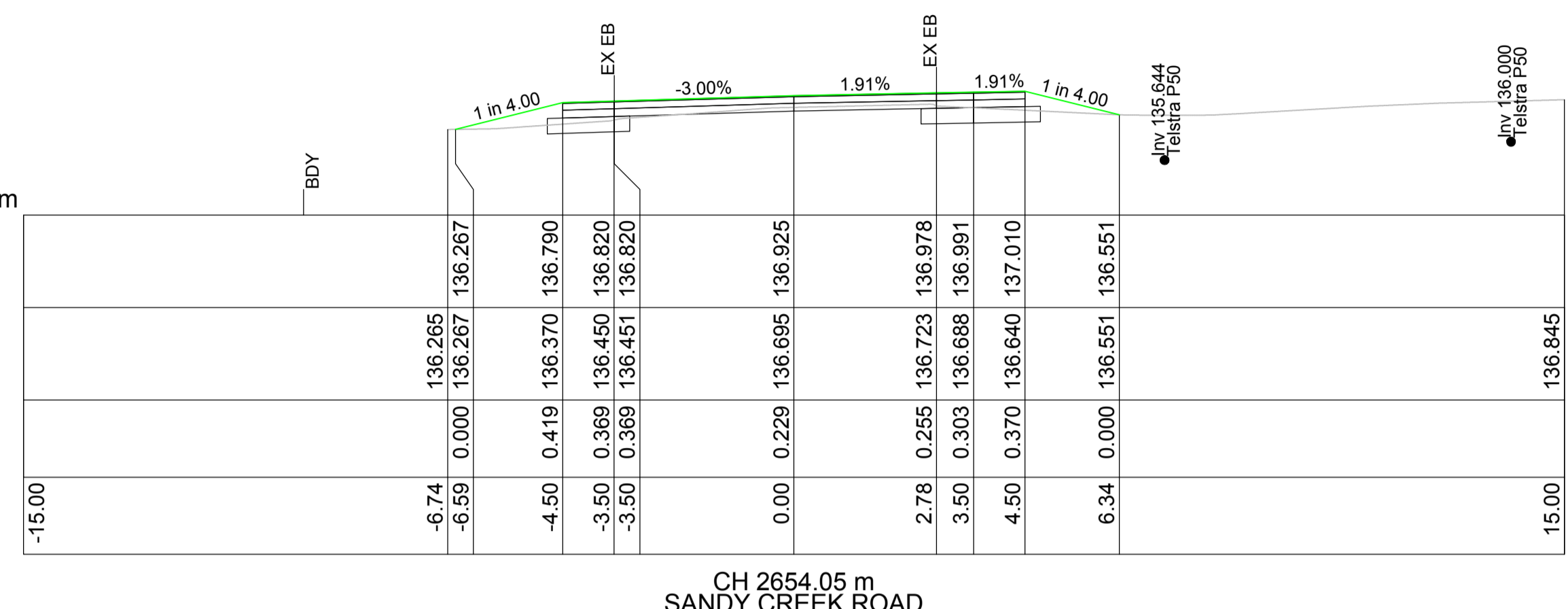
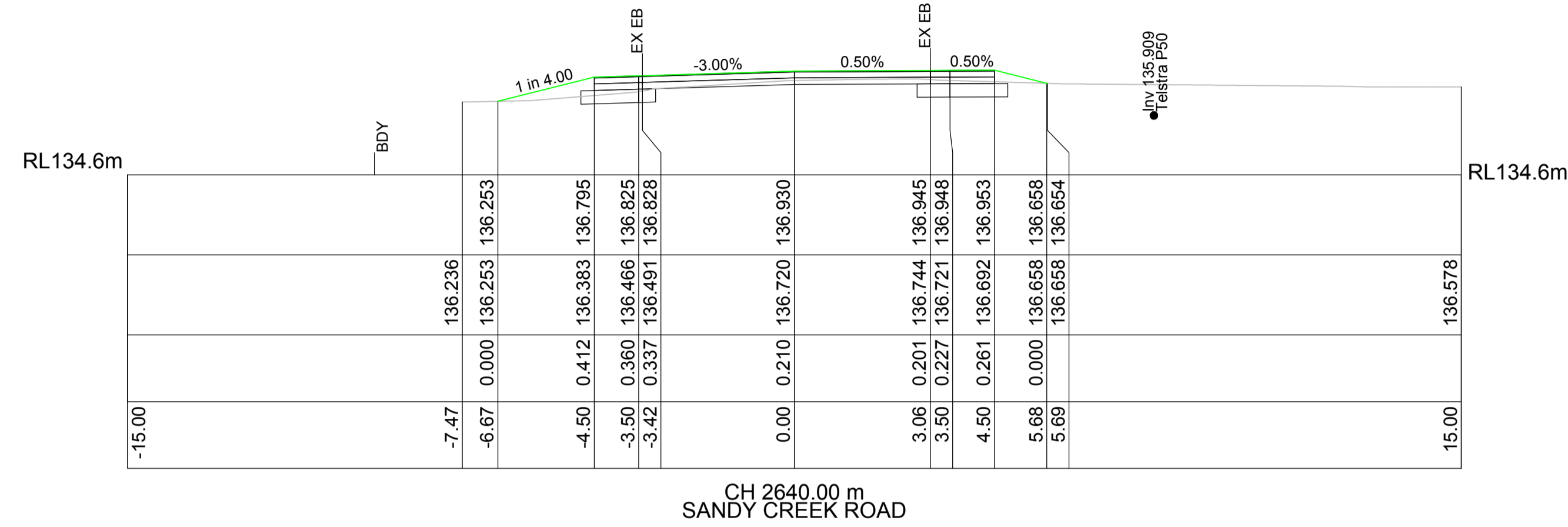
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE

**AL CIVIL DESIGN**  
 5 Yew Street  
 GILLRESTON HEIGHTS NSW 2321  
 0466 253 917

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SURVEY:	DELFS LASCELLES	CLIENT	CESSNOCK CITY COUNCIL
DESIGN:	M.M	PROJECT	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWN:	M.M	DRAWING TITLE	CROSS SECTIONS SHEET 69 OF 72
CHECKED:	M.M	SHEET	82 OF 116 SHEETS
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION CROSS SECTION
APPROVED:	M.M	1:100 (A1)	HORIZ. N/A HORIZ. 1:100 VERT. N/A VERT. 1:100

PROJECT No	AL22077	REVISION	1
DWG No	C05-82		
<b>CONSTRUCTION</b>			
2 1 0 2 4 6 1:100 (A1)			



DESIGN	EXISTING	DIFFERENCE	OFFSET
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	136.435		-8.03
	136.438		-6.03
	136.439		-5.88
	136.446		-5.83
	136.443		-4.50
	136.449		-3.50
	136.489		-3.32
	136.675		0.00
	136.667		3.02
	136.649		3.50
	136.611		4.50
	136.595		5.67
	136.596		5.98
	136.597		6.20
	137.303		15.00

REV	ISSUE	DATE	ISSUED BY
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	12.09.23	M.M
0	ISSUE FOR CONSTRUCTION	21.08.23	M.M
A	PRELIMINARY ISSUE	11.08.23	M.M
	REVISION DETAILS		

AL Civil Design  
 5 Yew Street  
 GILLIESTON HEIGHTS NSW 2321  
 0466 253 917

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SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M		
DRAWN:	M.M		
CHECKED:	M.M		
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION HORIZ. N/A VERT. N/A
APPROVED:	M.M	CROSS SECTION:	HORIZ. 1:100 VERT. 1:100

PROJECT  
**LOCAL ROAD RENEWAL  
 STAGE 1 & STAGE 2  
 SANDY CREEK ROAD, QUORROBOLONG**

DRAWING TITLE  
**CROSS SECTIONS SHEET 70 OF 72**

**SHEET 83 OF 116 SHEETS**

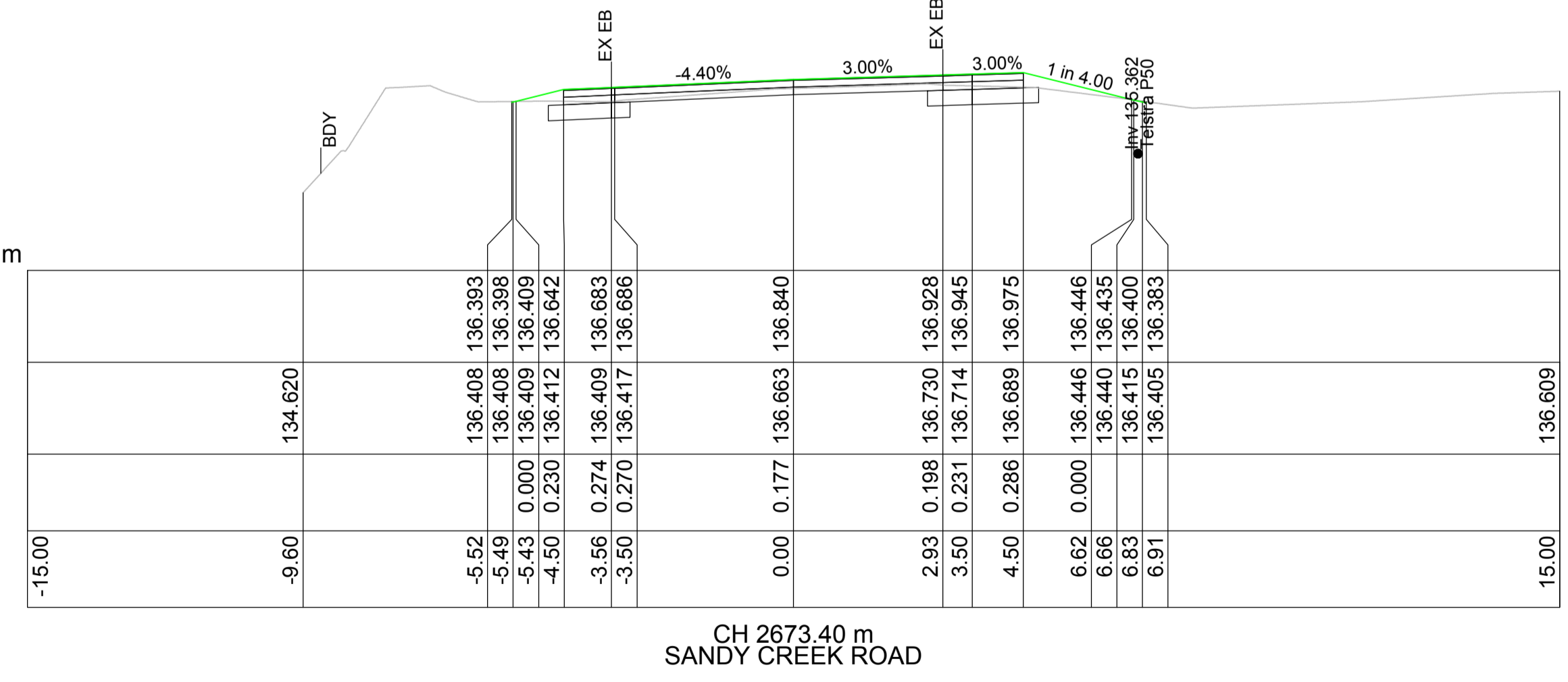
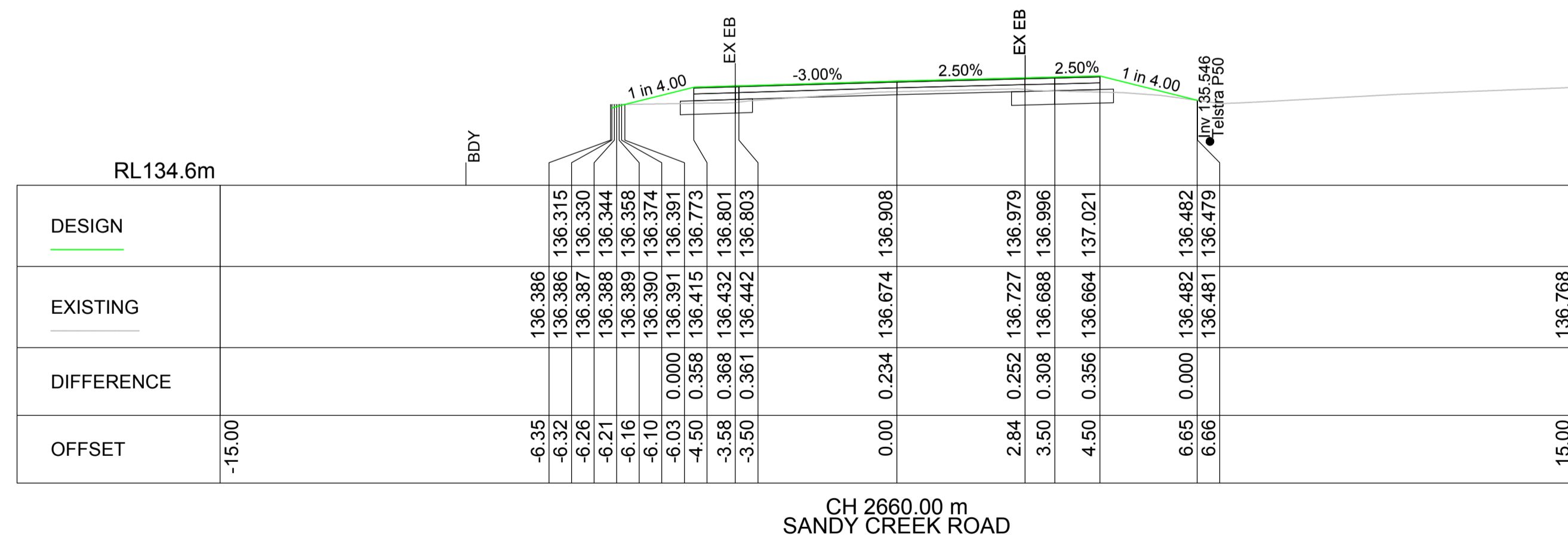
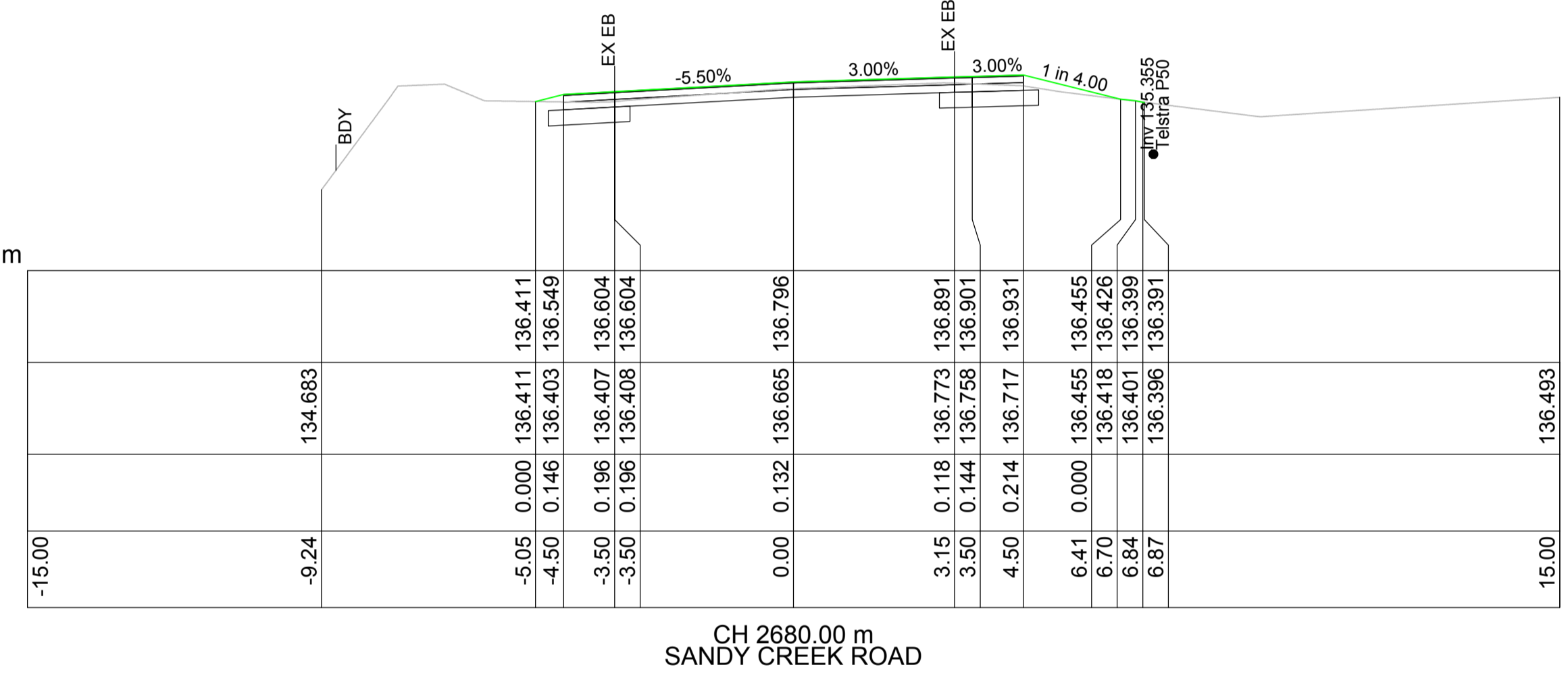
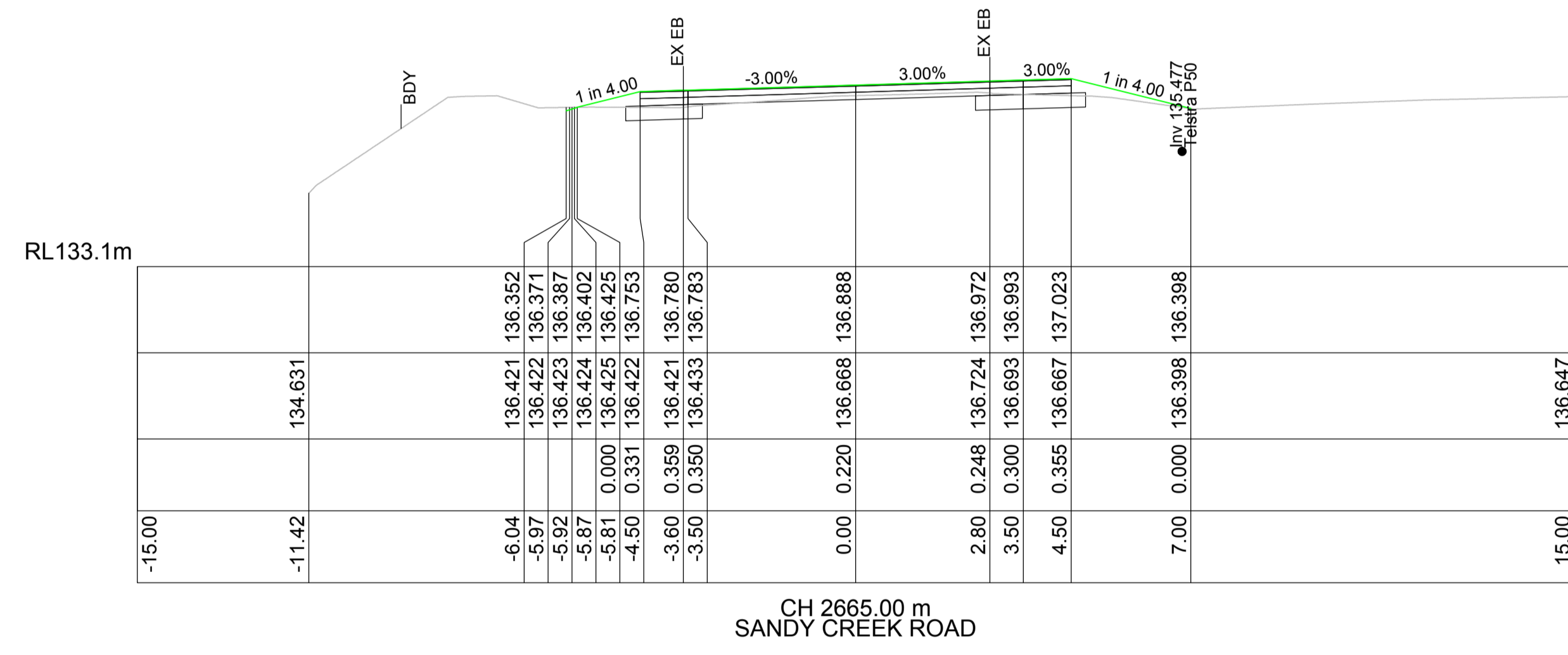
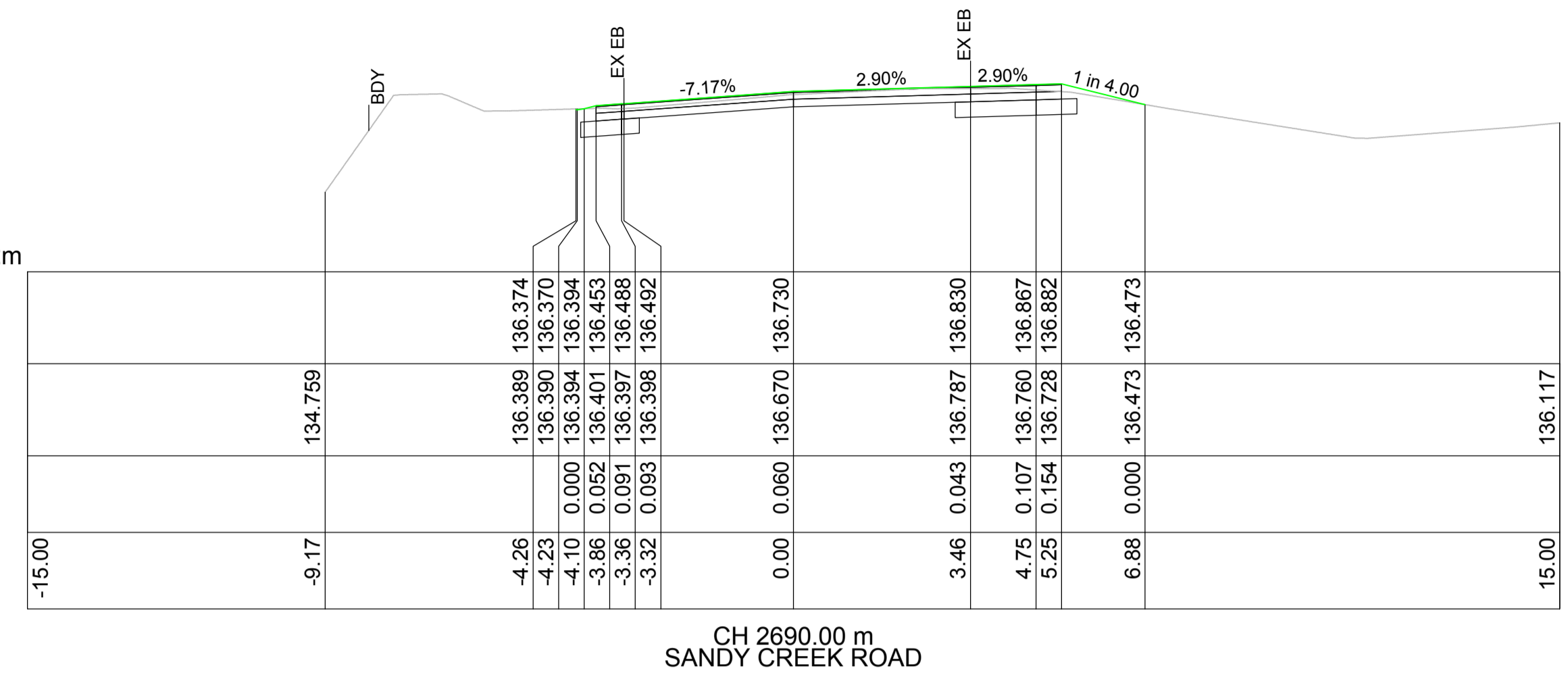
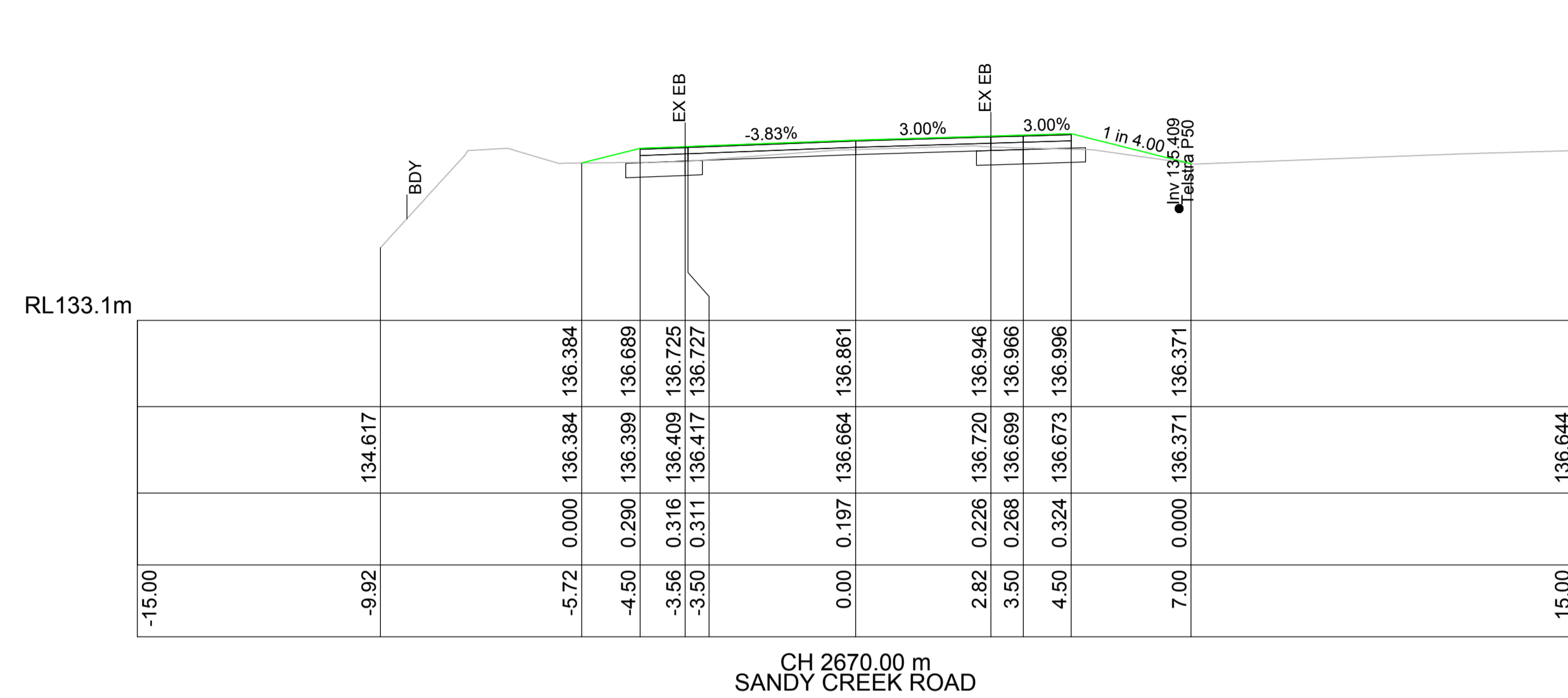
PROJECT No  
**AL22077**

DWG No  
**C05-83**

REVISION  
**1**

**CONSTRUCTION**

2 1 0 2 4 6  
 1:100 (A1)



	DESIGN	EXISTING	DIFFERENCE	OFFSET
		136.386		-15.00
		136.315		-6.35
		136.387		-6.32
		136.330		-6.26
		136.344		-6.21
		136.388		-6.16
		136.358		-6.10
		136.390		-6.10
		136.374		-6.00
		136.391		-4.50
		136.773		0.358
		136.801		0.368
		136.803		0.361
		136.908		0.234
		136.979		0.252
		136.996		0.308
		137.021		0.356
		136.482		0.000
		136.479		0.000
		136.788		0.000

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23



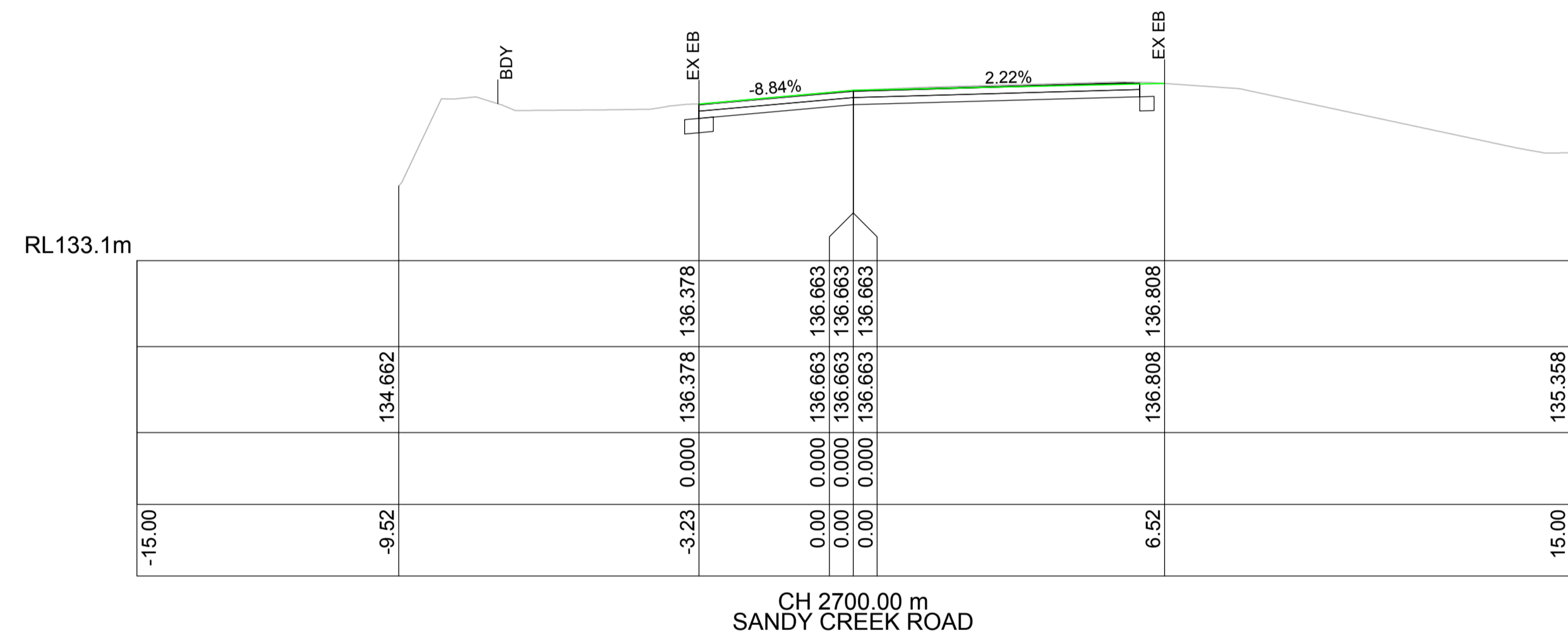
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SURVEY:	DELFS LASCELLES
DESIGN:	M.M
DRAWN:	M.M
CHECKED:	M.M
DATE:	11.08.2023
APPROVED:	M.M

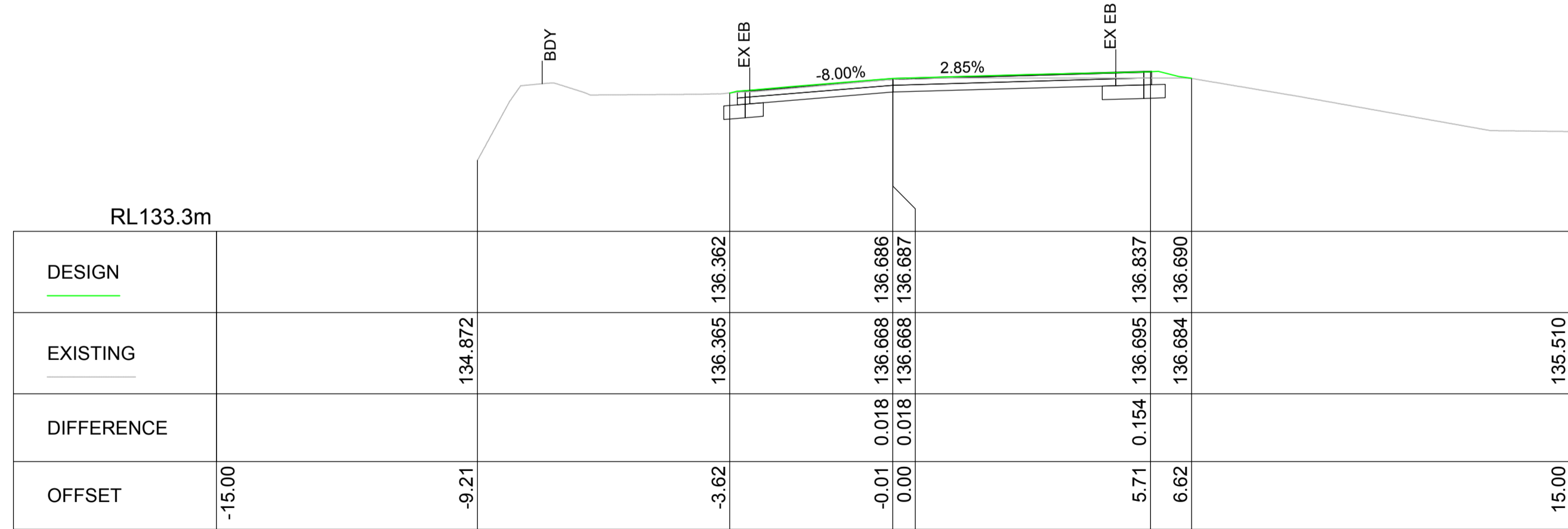
CLIENT	CESSNOCK CITY COUNCIL	
PLAN:	LONGITUDINAL SECTION	CROSS SECTION
	HORIZ. N/A	HORIZ. 1:100
	VERT. N/A	VERT. 1:100

PROJECT	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWING TITLE	CROSS SECTIONS SHEET 71 OF 72
SHEET 84 OF 116 SHEETS	

PROJECT No	AL22077	REVISION	1
DWG No	C05-84		
<b>CONSTRUCTION</b>			
 1:100 (A1)			



CH 2700.00 m  
SANDY CREEK ROAD



CH 2696.49 m  
SANDY CREEK ROAD

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

**AL CIVIL DESIGN**  
 CIVIL DESIGN  
 AL Civil Design  
 5 Yew Street  
 GILLIESTON HEIGHTS NSW 2321  
 0466 253 917

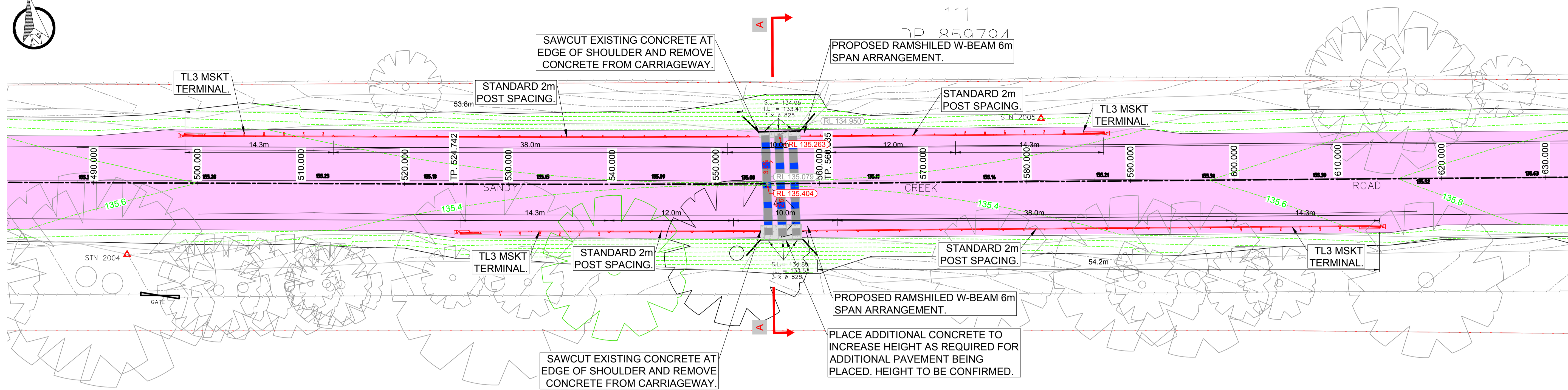
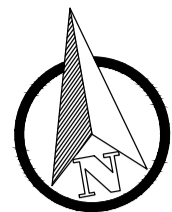
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SURVEY:	DELFS LASCELLES
DESIGN:	M.M
DRAWN:	M.M
CHECKED:	M.M
DATE:	11.08.2023
APPROVED:	M.M

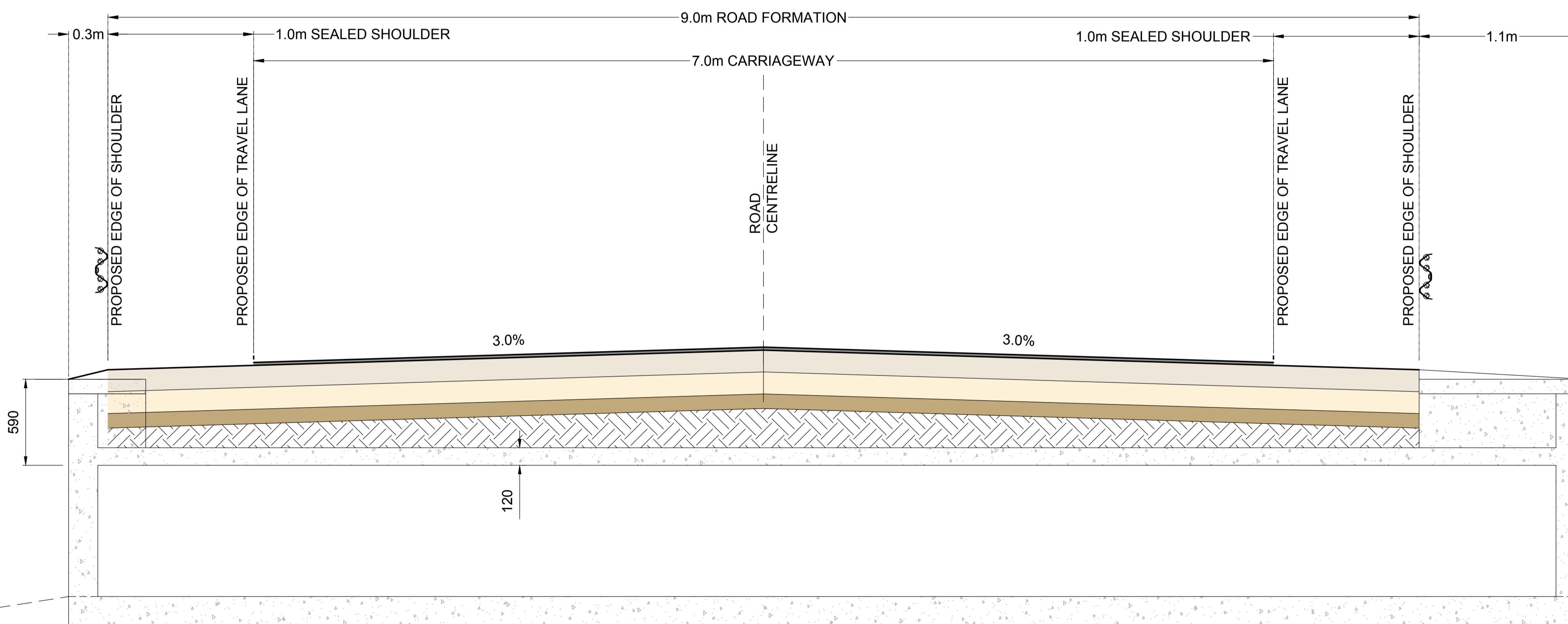
CLIENT	CESSNOCK CITY COUNCIL	
PLAN:	LONGITUDINAL SECTION	CROSS SECTION
1:100 (A1)	HORIZ. N/A VERT. N/A	HORIZ. 1:100 VERT. 1:100

PROJECT	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWING TITLE	CROSS SECTIONS SHEET 72 OF 72
SHEET 85 OF 116 SHEETS	

PROJECT No	AL22077	REVISION	1
DWG No	C05-85	<b>CONSTRUCTION</b>	
2 1 0 2 4 6		1:100 (A1)	

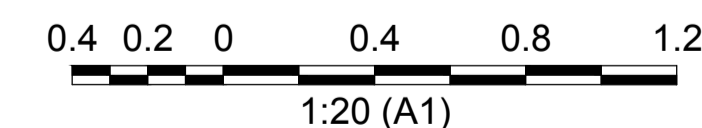


SITE PLAN  
SCALE 1:200



SECTION A-A (CH557 REINFORCED CONCRETE BOX CULVERT SECTION CONSTRUCTION)

SCALE: 1:20



REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23



AL Civil Design  
5 Yew Street  
GILLJESTON HEIGHTS NSW 2321  
0466 253 917

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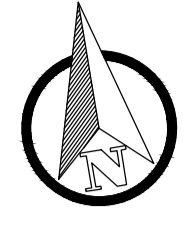
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SURVEY:	DELFS LASCELLES
DESIGN:	M.M
DRAWN:	M.M
CHECKED:	M.M
DATE:	11.08.2023
APPROVED:	M.M

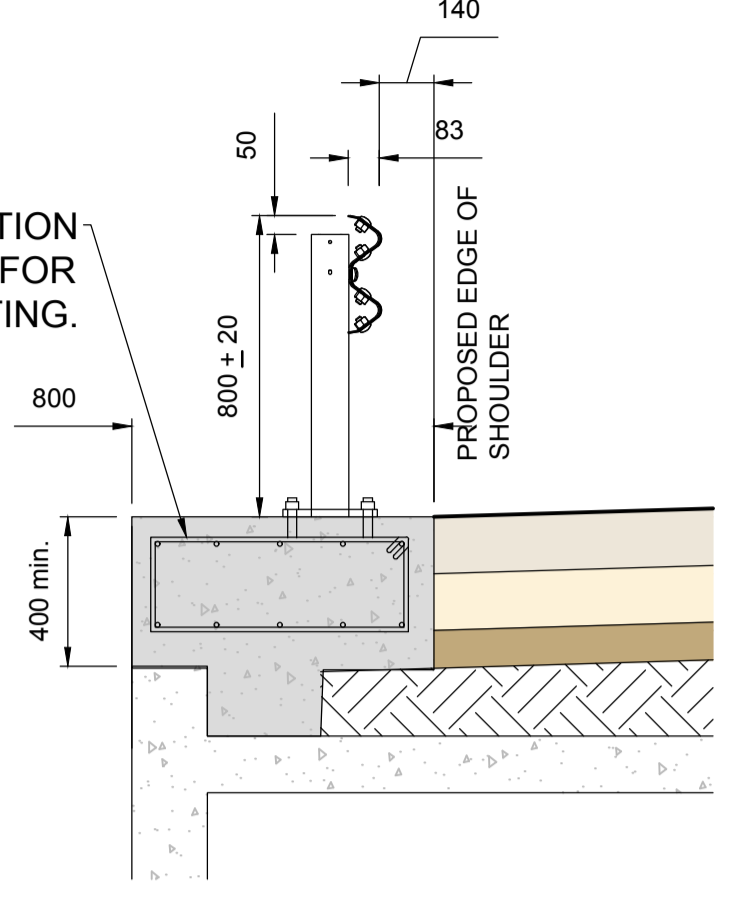
CLIENT	CESSNOCK CITY COUNCIL	
PLAN:	LONGITUDINAL SECTION	CROSS SECTION
1:200 (A1)	HORIZ. 1:500	HORIZ. N/A
	VERT. 1:100	VERT. N/A

PROJECT	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWING TITLE	CH555
SHEET 86 OF 116 SHEETS	

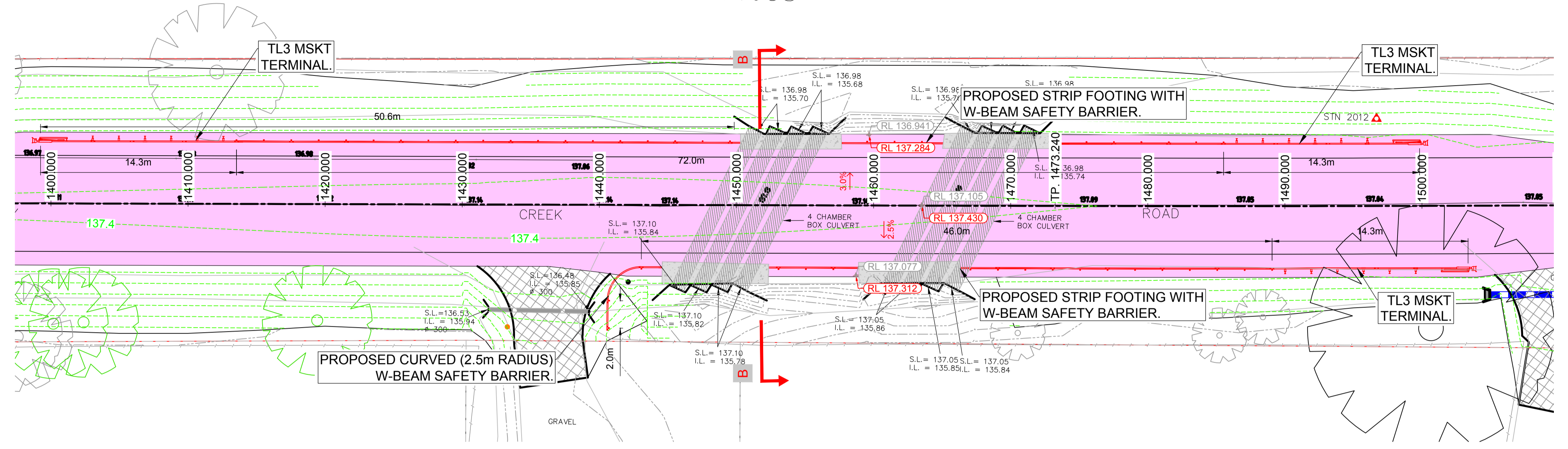
PROJECT No	AL22077	REVISION	1
DWG No	C06-86		
<b>CONSTRUCTION</b>			



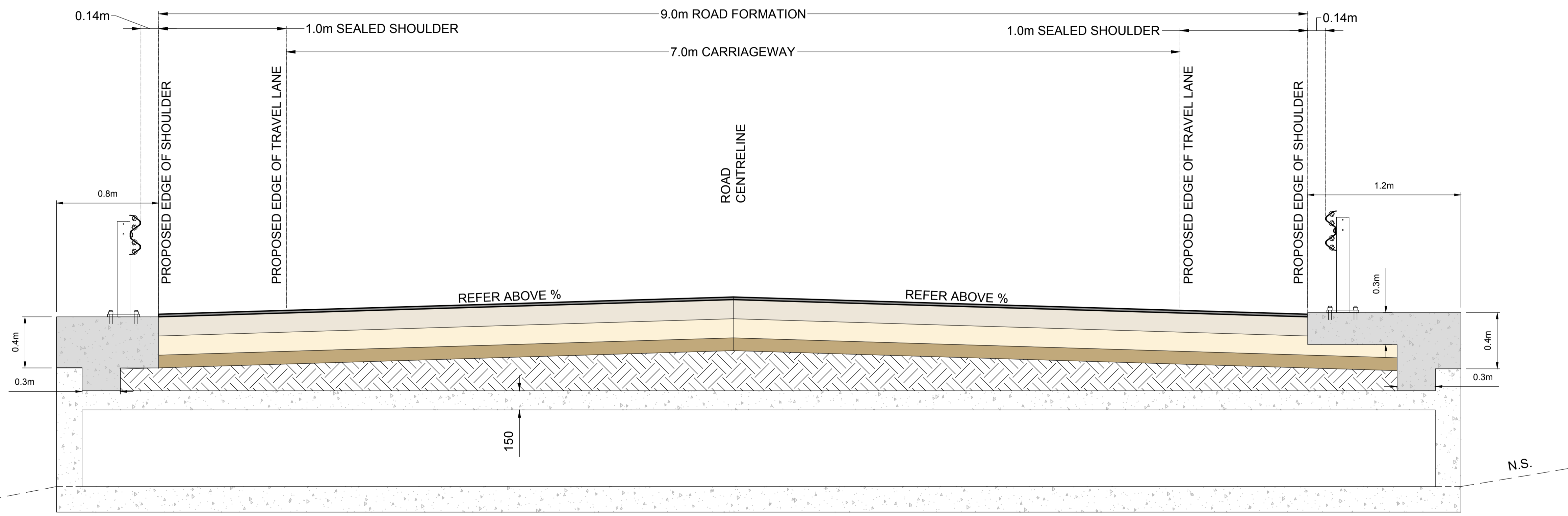
REFER TO SAFE DIRECTION  
DRAWING SD-RB-01033 FOR  
DETAILS OF FOOTING.



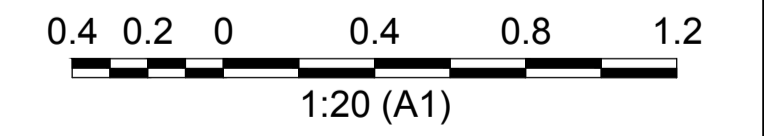
**TYPICAL CONCRETE STRIP  
FOOTING WITH HEADWALL  
EXTENSION**  
SCALE 1:20  
(Ref: RMS MODEL DRAWING R0710-04)



**SITE PLAN**  
SCALE 1:200



**SECTION B-B (CH1460 REINFORCED CONCRETE BOX CULVERT SECTION CONSTRUCTION)**  
SCALE: 1:20



REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

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SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M	PROJECT:	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWN:	M.M	DRAWING TITLE:	CH1460
CHECKED:	M.M	DATE:	11.08.2023
APPROVED:	M.M	PLAN:	1:200 (A1)
		LONGITUDINAL SECTION:	HORIZ. 1:500 VERT. 1:100
		CROSS SECTION:	HORIZ. N/A VERT. N/A

**PROJECT**  
LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG

**DRAWING TITLE**  
CH1460

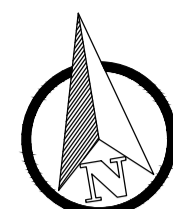
**SHEET 87 OF 116 SHEETS**

PROJECT No	AL22077	REVISION	1
DWG No	C06-87		

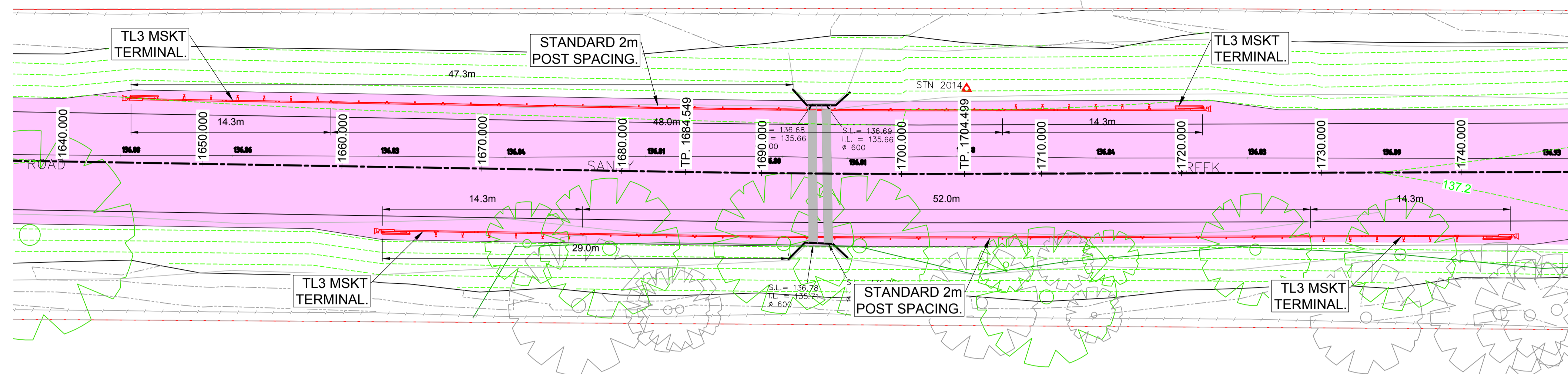
**CONSTRUCTION**

Graphic scale bar for 1:200 (A1) showing increments of 4, 2, 0, 4, 8, and 12 meters.

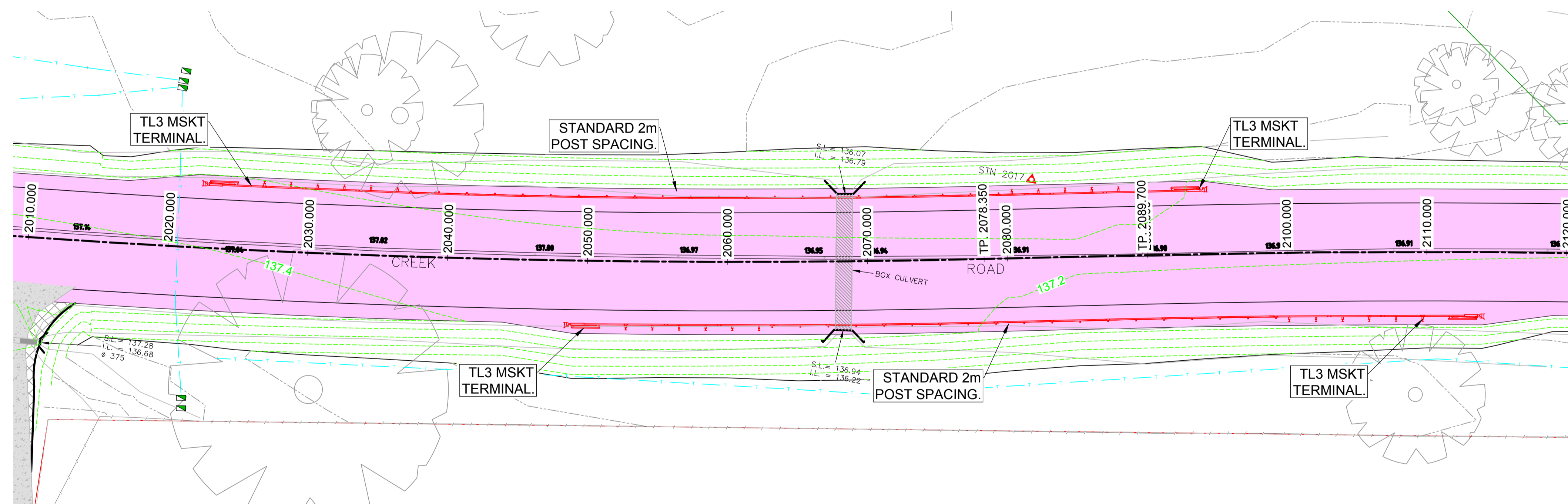
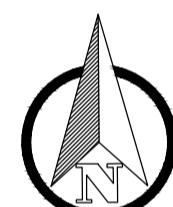




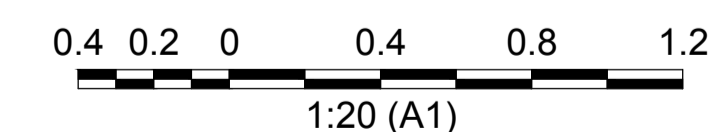
4  
DP 571638



SITE PLAN  
SCALE 1:200



SITE PLAN  
SCALE 1:200



REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

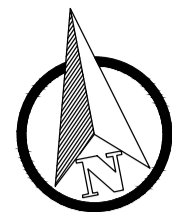
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 CIVIL DESIGN  
 AL Civil Design  
 5 Yew Street  
 GILLRESTON HEIGHTS NSW 2321  
 0466 253 917

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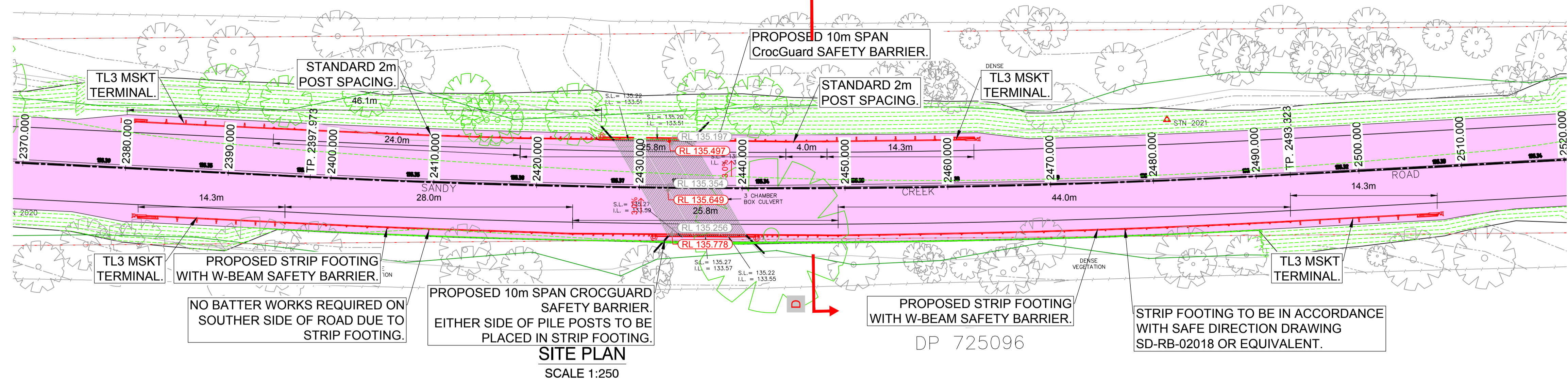
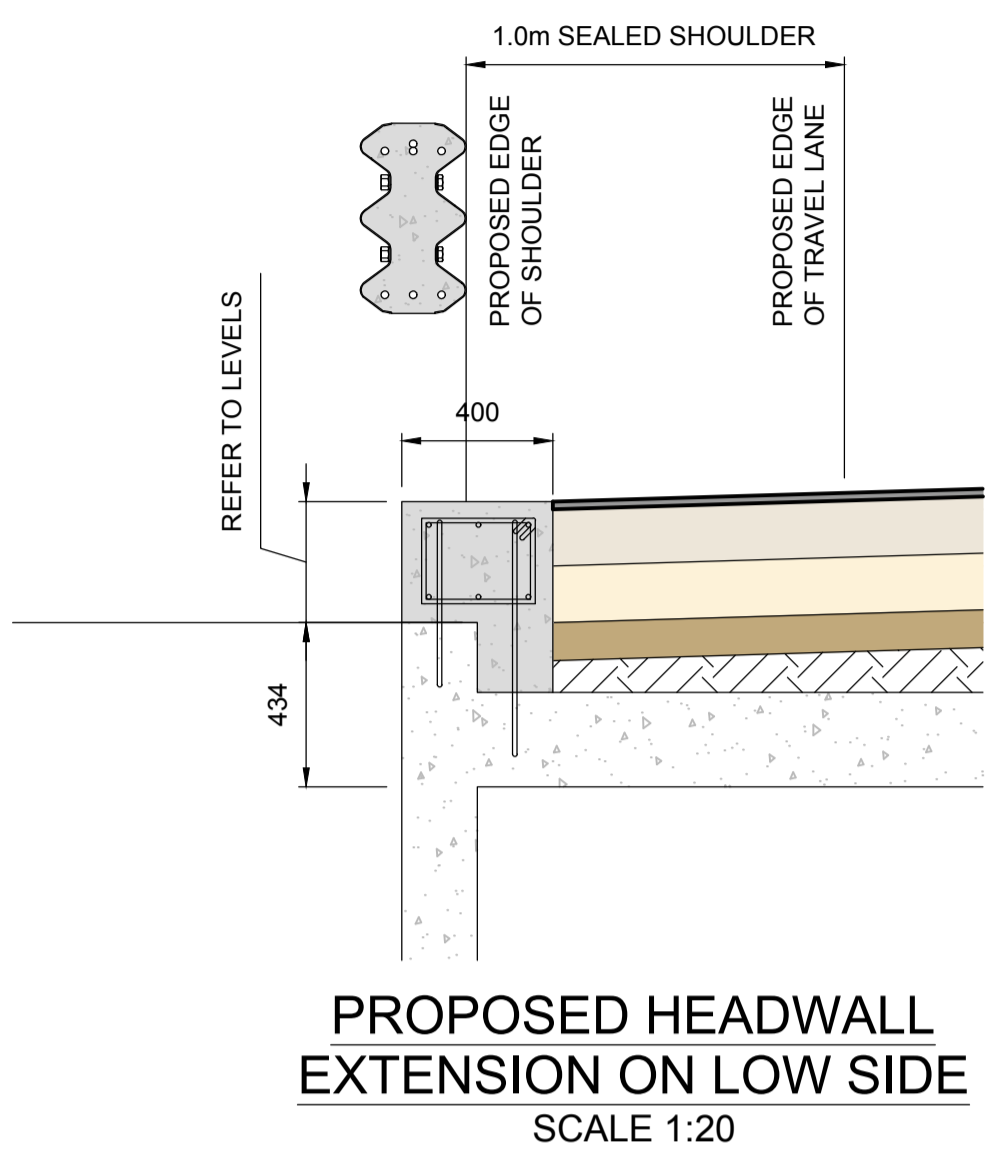
SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M	PLAN:	LONGITUDINAL SECTION HORIZ. 1:500 VERT. 1:100
DRAWN:	M.M	CROSS SECTION:	HORIZ. N/A VERT. N/A
CHECKED:	M.M	DATE:	11.08.2023
APPROVED:	M.M	SCALE:	1:200 (A1)

PROJECT  
**LOCAL ROAD RENEWAL  
 STAGE 1 & STAGE 2  
 SANDY CREEK ROAD, QUORROBOLONG**  
 DRAWING TITLE  
 CH1694 & CH2069  
**SHEET 88 OF 116 SHEETS**

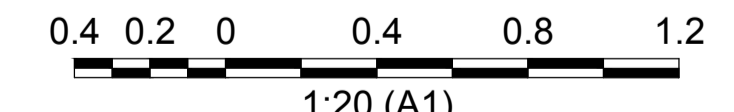
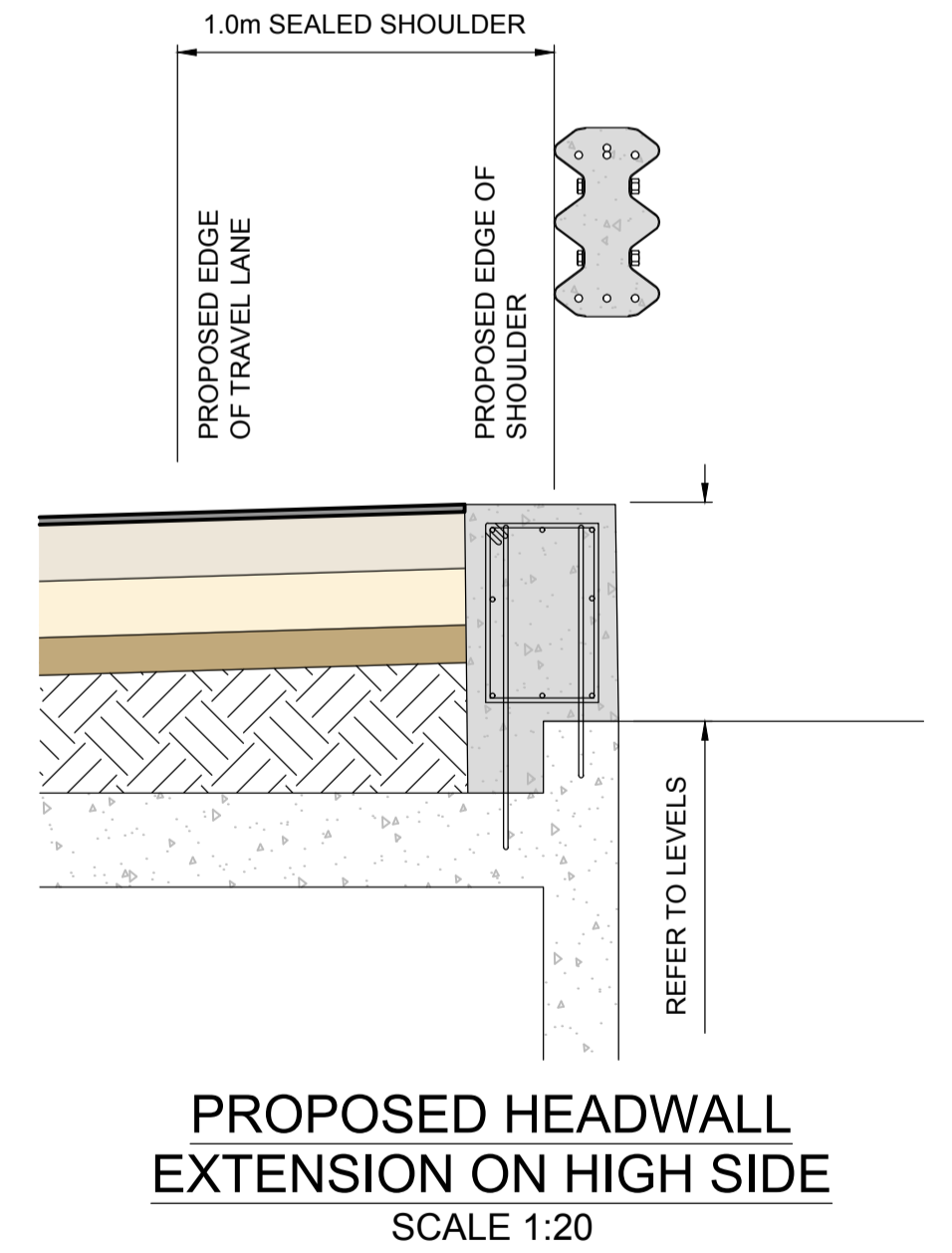
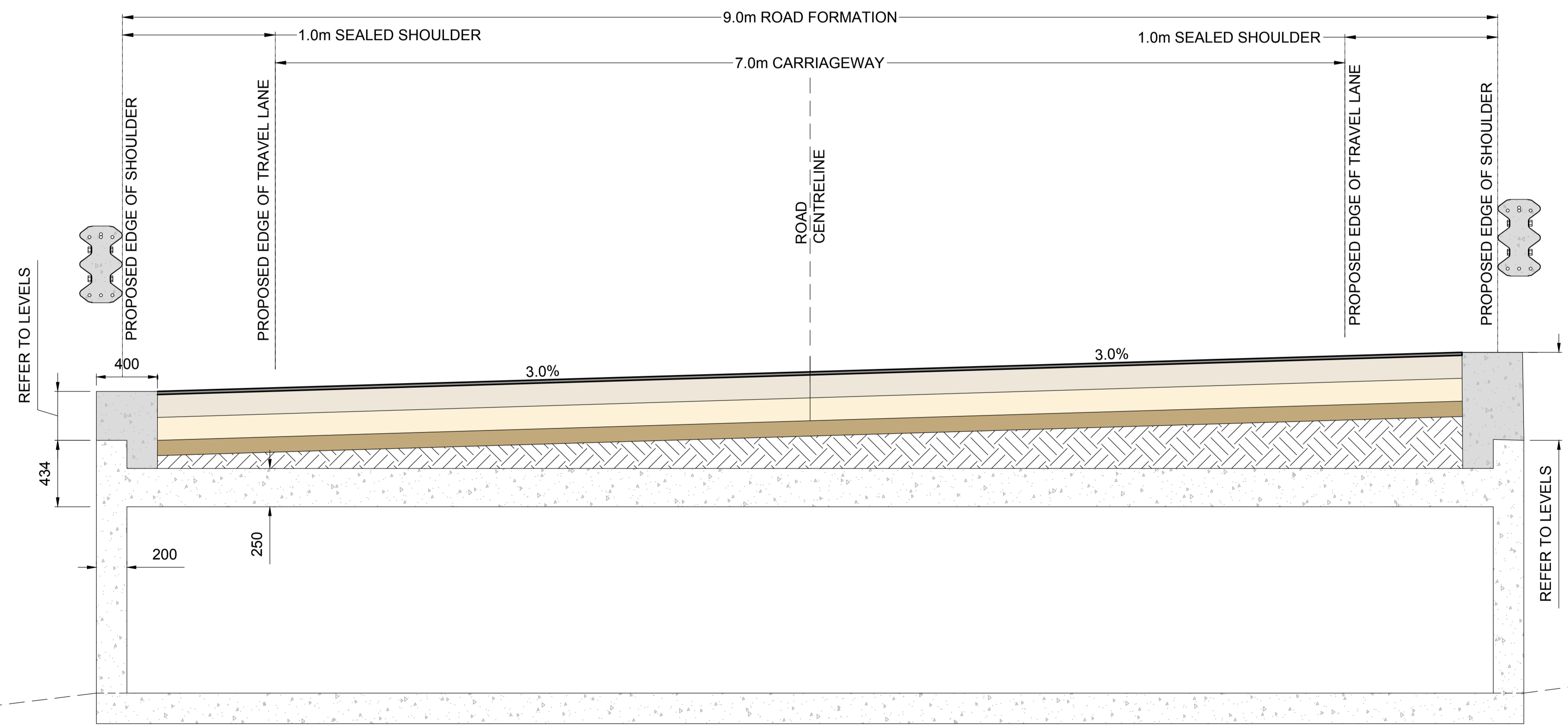
PROJECT No	AL22077	REVISION	1
DWG No	C06-88	<b>CONSTRUCTION</b>	



3  
DP 745656



DP 725096



REV	REVISION DETAILS	ISSUED BY	DATE
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0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

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SURVEY: DELFS LASCELLES  
DESIGN: M.M  
DRAWN: M.M  
CHECKED: M.M  
DATE: 11.08.2023  
APPROVED: M.M

CLIENT  
**CESSNOCK CITY COUNCIL**

PLAN:  
1:250 (A1)

PROJECT  
**LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG**

DRAWING TITLE  
**CH2435**

**SHEET 89 OF 116 SHEETS**

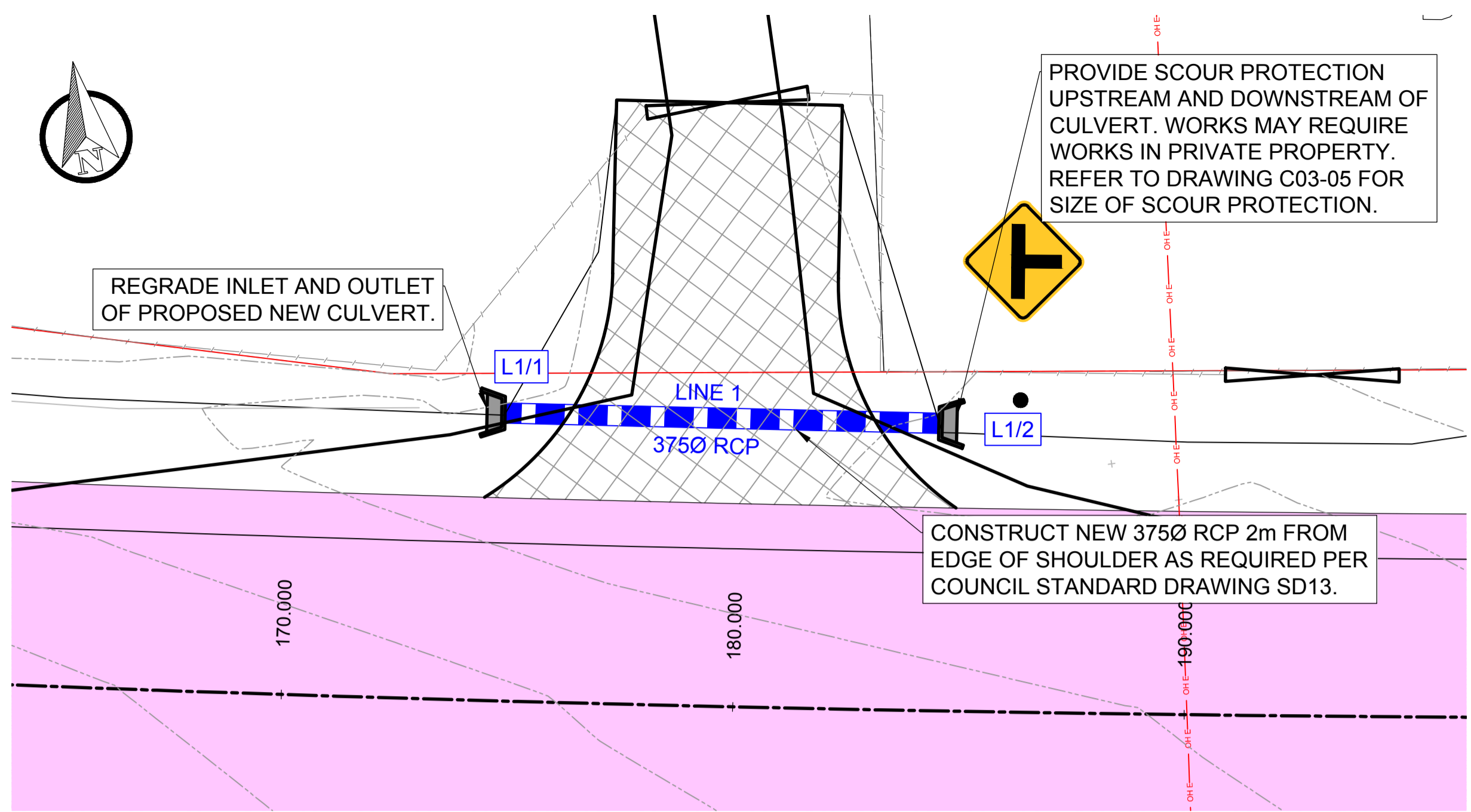
PROJECT No  
**AL22077**

DWG No  
**C06-89**

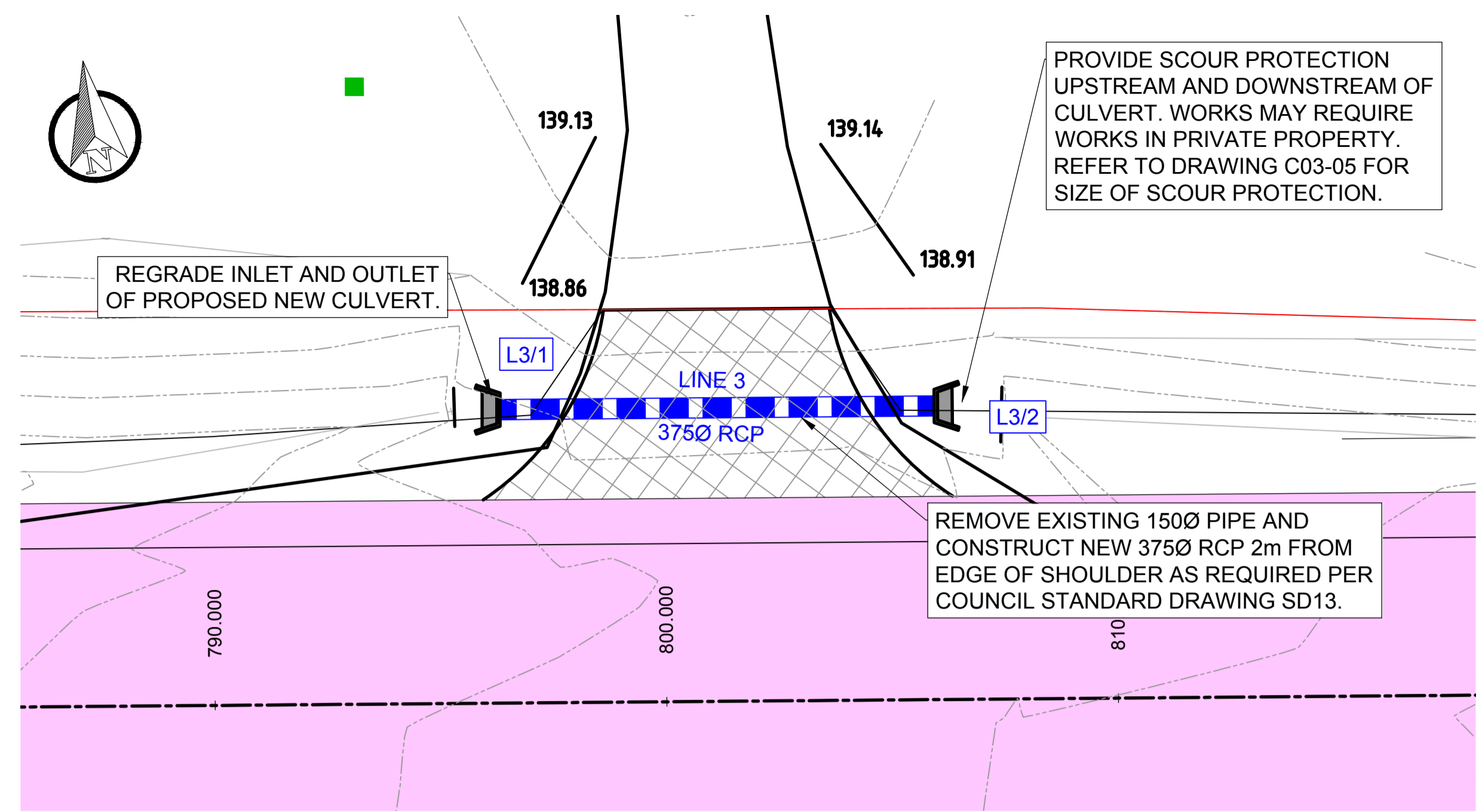
**CONSTRUCTION**

REVISION  
**1**

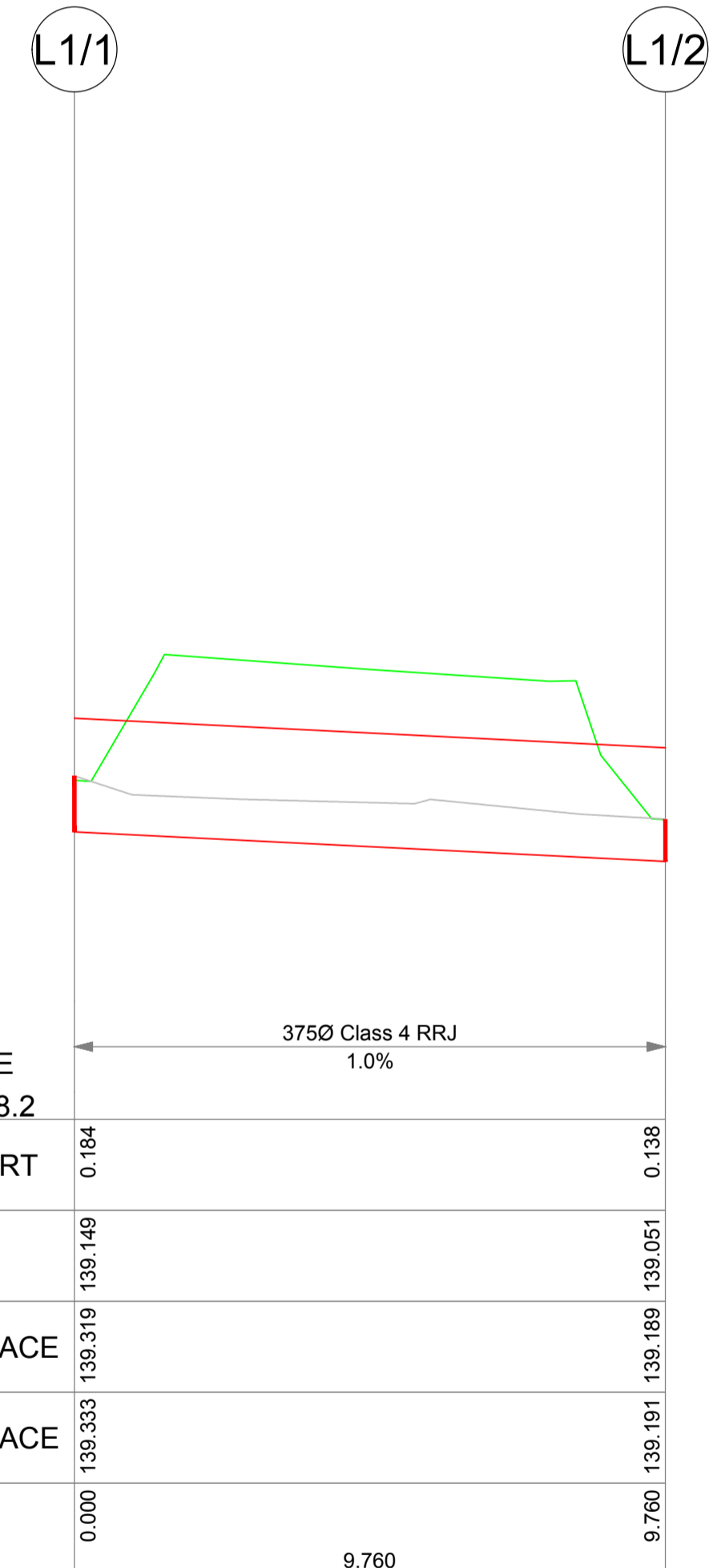
5 2.5 0 5 10 15  
1:250 (A1)



DRAINAGE LINE 1 PLAN  
SCALE 1:100



DRAINAGE LINE 3 PLAN  
SCALE 1:100



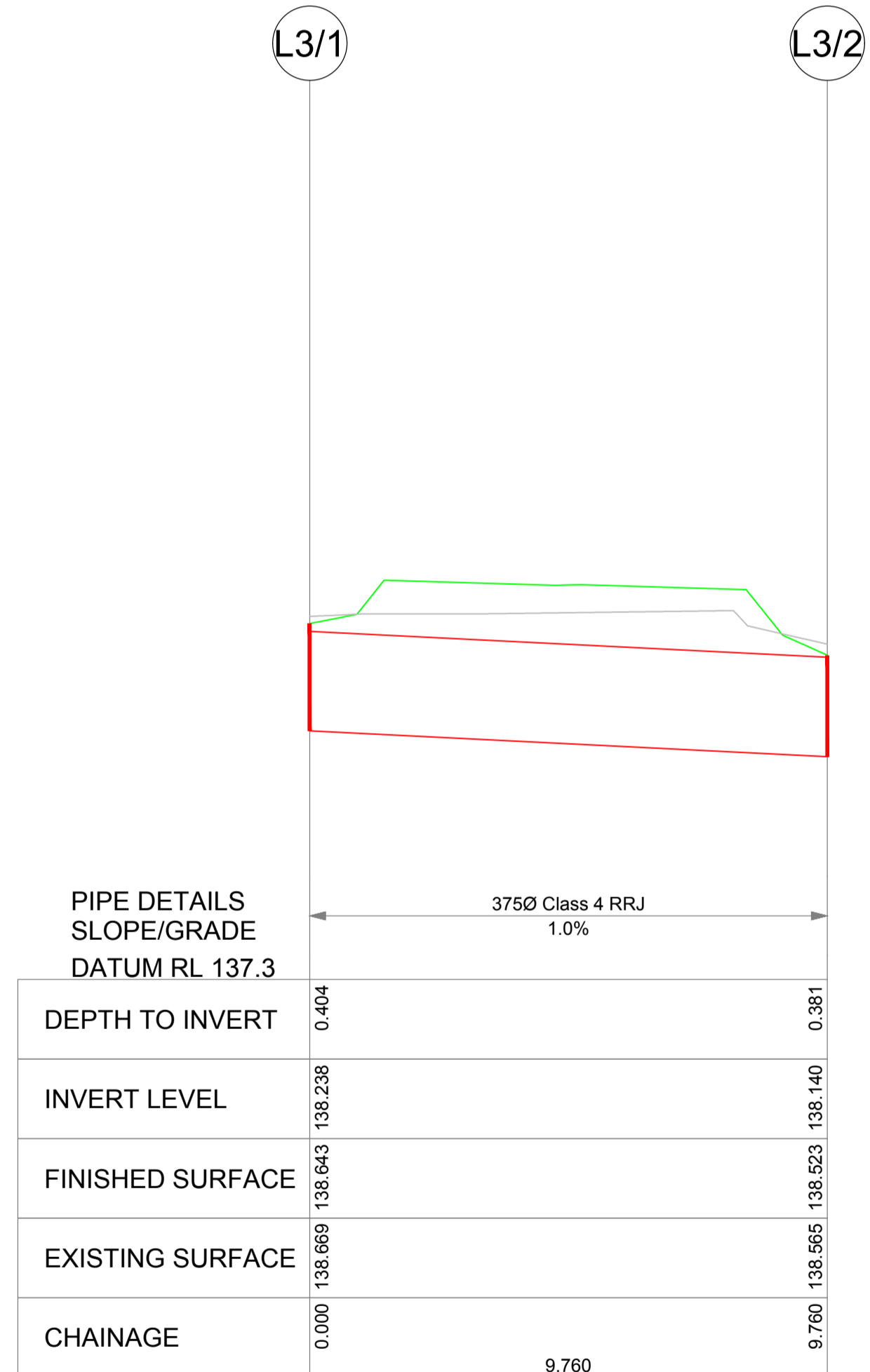
DRAINAGE LONGITUDINAL SECTION FOR LINE L1  
SCALES: HORIZONTAL 1:100 VERTICAL 1:20

Setout - LINE 1 (DRIVEWAY 1)

Pit No.	Easting	Northing	Downstream Invert Level	Upstream Invert Level
(m)	(m)	(m)		
L1/2	347105.88	6356115.769	139.051	
L1/1	347096.28	6356117.525		139.149

Setout - LINE 3 DRIVEWAY 3 (CH801)

Pit No.	Easting	Northing	Downstream Invert Level	Upstream Invert Level
(m)	(m)	(m)		
L3/2	347710.10	6356021.227	138.140	
L3/1	347719.76	6356019.780		138.238



DRAINAGE LONGITUDINAL SECTION FOR LINE L3  
SCALES: HORIZONTAL 1:100 VERTICAL 1:20

- LEGEND
- 29.0 --- CONTOURS - EXISTING
  - 29.0 --- CONTOURS - PROPOSED
  - NEW ROAD PAVEMENT
  - DRIVEWAY RECONSTRUCTION
  - PROPOSED GUARD RAIL
  - PROPOSED STORMWATER
  - EXISTING STORMWATER
  - EXISTING FENCE LINE
  - EXISTING OVER HEAD POWER
  - EXISTING TELECOM
  - △2180CR01 CONTROL MARK (SURVEY STATION)
  - EXISTING TREE
  - TREE TO BE REMOVED
  - TREE TO BE RETAINED AS PER REF



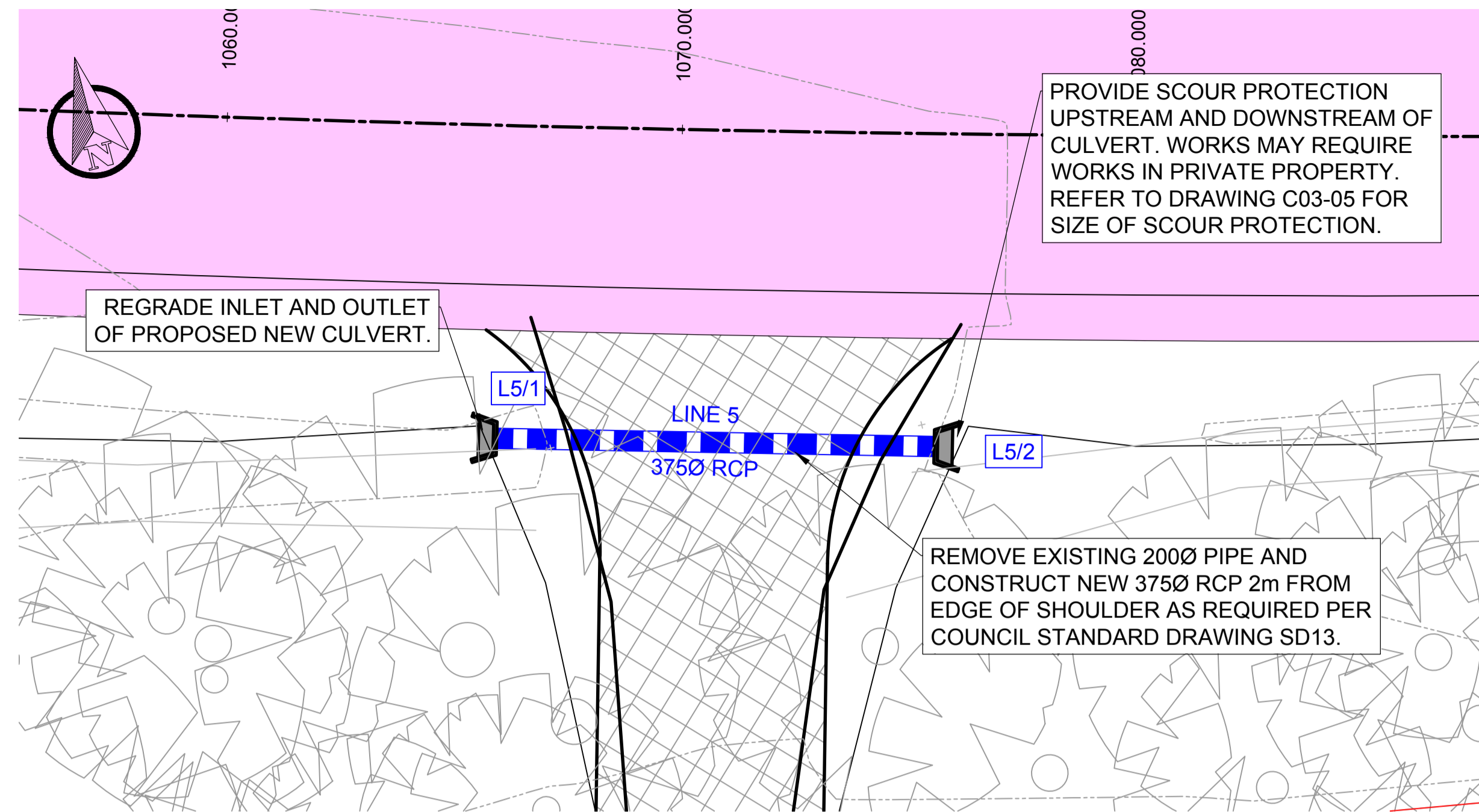
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GILLJESTON HEIGHTS NSW 2321  
0466 253 917

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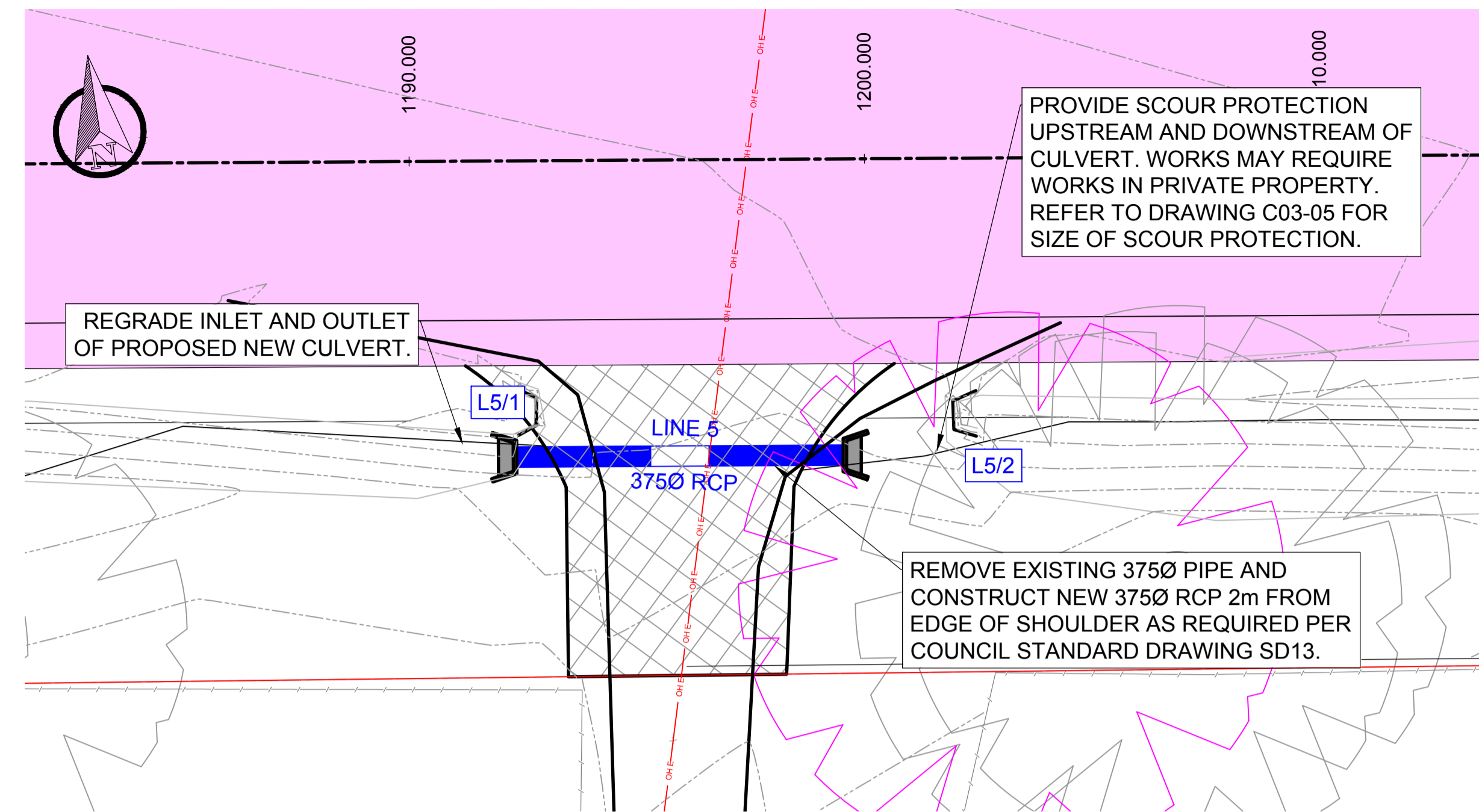
SURVEY:	DELFS LASCELLES	CLIENT	CESSNOCK CITY COUNCIL	
DESIGN:	M.M	PROJECT	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG	
DRAWN:	M.M	DRAWING TITLE	DRAINAGE LINE 1 & 3	
CHECKED:	M.M	DATE:	11.08.2023	APPROVED: M.M
DATE:	11.08.2023	PLAN:	1:100 (A1)	
APPROVED:	M.M	LONGITUDINAL SECTION	HORIZ. 1:500 VERT. 1:100	CROSS SECTION HORIZ. N/A VERT. N/A

PROJECT No AL22077  
DWG No C07-90  
SHEET 90 OF 116 SHEETS

REVISION	1
<b>CONSTRUCTION</b>	



**DRAINAGE LINE 5 PLAN**  
SCALE 1:100



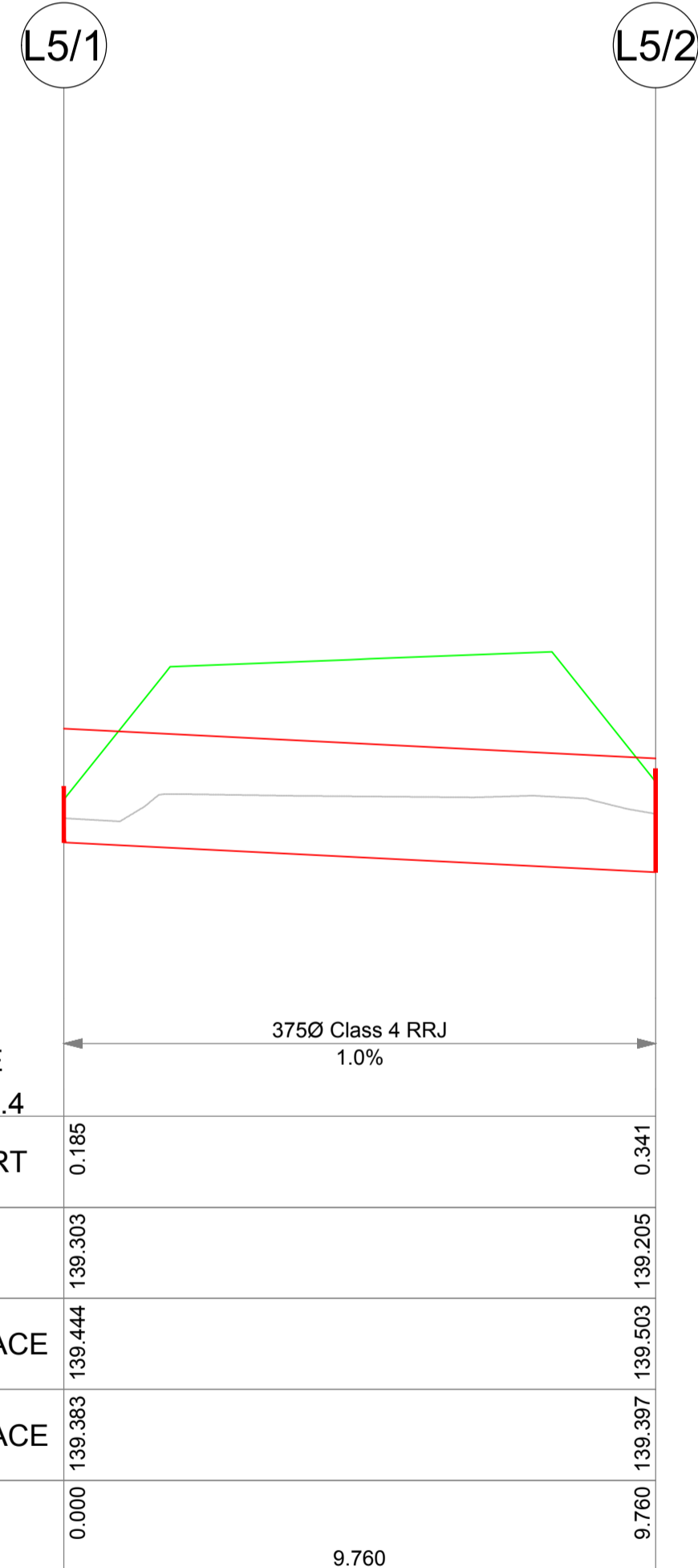
**DRAINAGE LINE 7 PLAN**  
SCALE 1:100

**Setout - LINE 5 DRIVEWAY 5 (CH1071)**

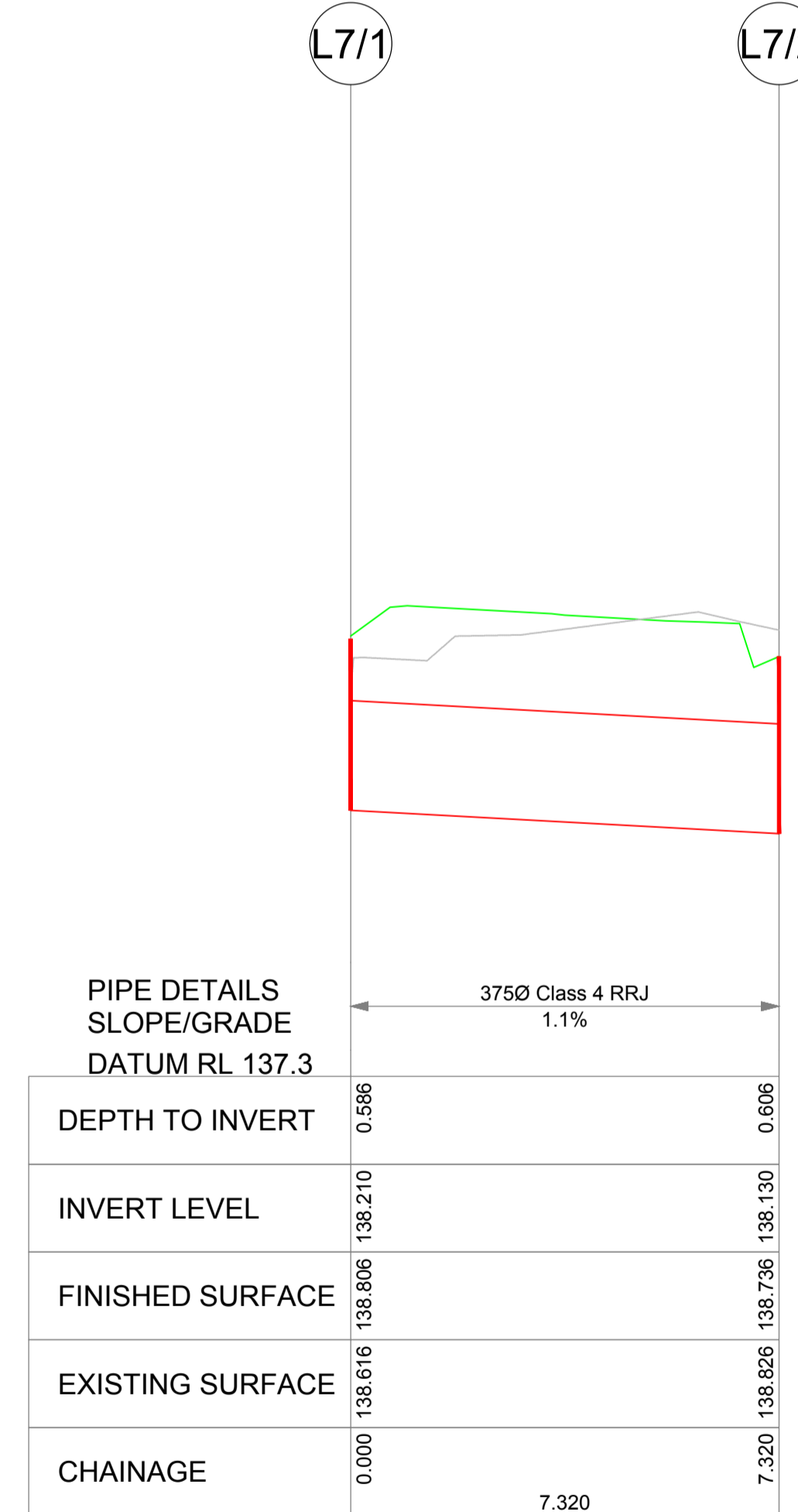
Pit No.	Easting	Northing	Downstream Invert Level	Upstream Invert Level
(m)	(m)	(m)		
L5/2	347978.72	6355943.027	139.205	
L5/1	347969.28	6355945.496		139.303

**Setout - LINE 7 DRIVEWAY 7 (CH1196)**

Pit No.	Easting	Northing	Downstream Invert Level	Upstream Invert Level
(m)	(m)	(m)		
L7/2	348101.23	6355920.976	138.130	
L7/1	348094.00	6355922.078		138.210

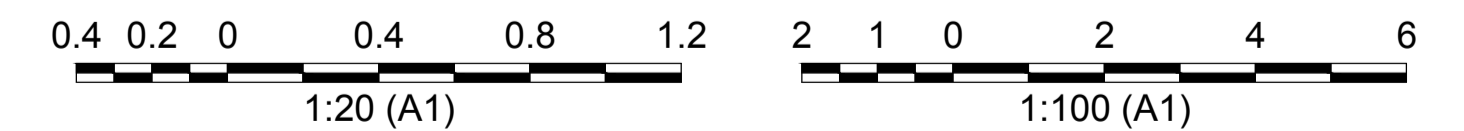


**DRAINAGE LONGITUDINAL SECTION FOR LINE L5**  
SCALES: HORIZONTAL 1:100 VERTICAL 1:20



**DRAINAGE LONGITUDINAL SECTION FOR LINE L7**  
SCALES: HORIZONTAL 1:100 VERTICAL 1:20

- LEGEND**
- 29.0 --- CONTOURS - EXISTING
  - 29.0 --- CONTOURS - PROPOSED
  - NEW ROAD PAVEMENT
  - DRIVEWAY RECONSTRUCTION
  - PROPOSED GUARD RAIL
  - PROPOSED STORMWATER
  - EXISTING STORMWATER
  - EXISTING FENCE LINE
  - EXISTING OVER HEAD POWER
  - EXISTING TELECOM
  - △2180CR01 CONTROL MARK (SURVEY STATION)
  - EXISTING TREE
  - TREE TO BE REMOVED
  - TREE TO BE RETAINED AS PER REF



REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

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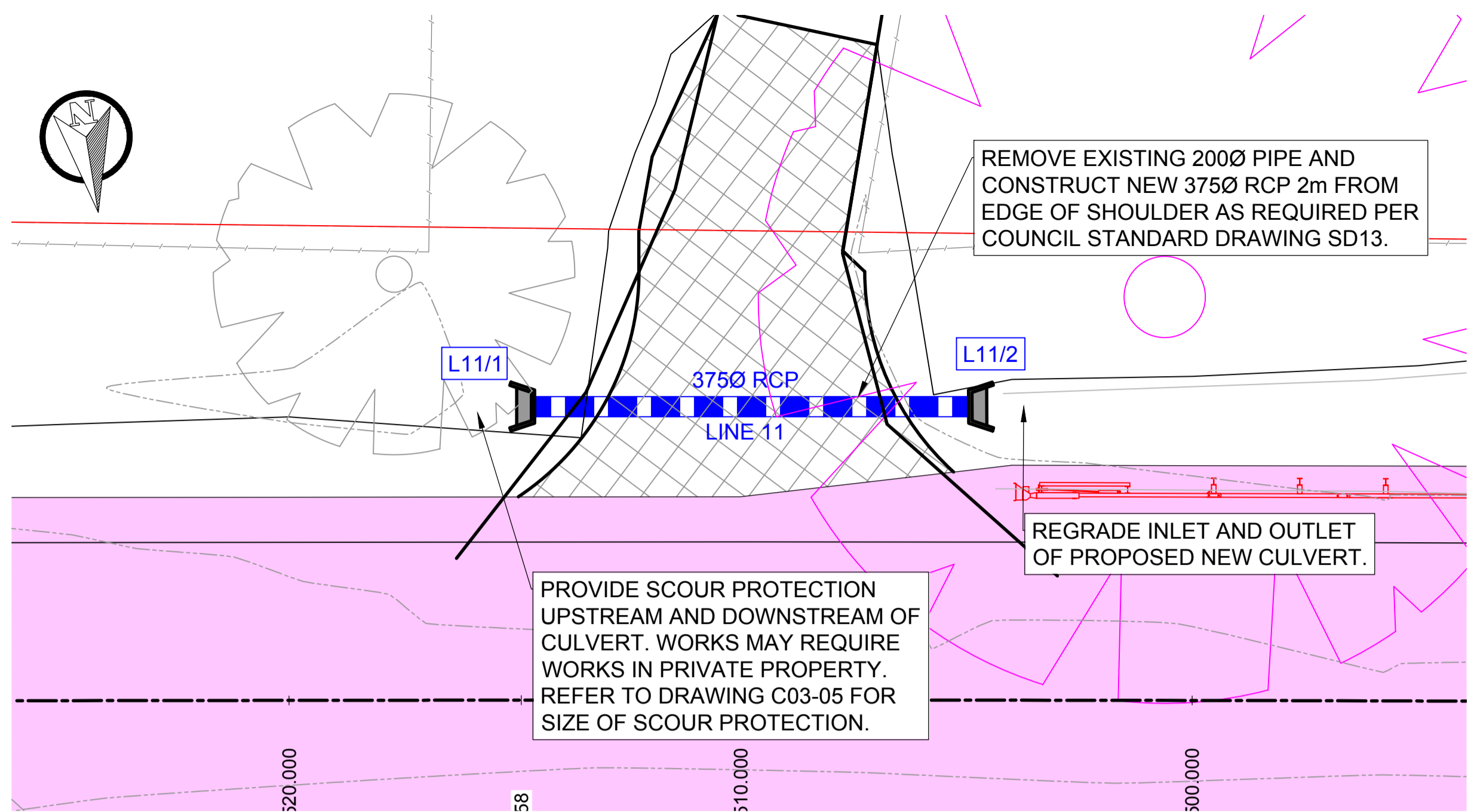
SURVEY: DELFS LASCELLES	CLIENT: CESSNOCK CITY COUNCIL
DESIGN: M.M	
DRAWN: M.M	
CHECKED: M.M	
DATE: 11.08.2023	PLAN: LONGITUDINAL SECTION CROSS SECTION
APPROVED: M.M	1:100 (A1) HORIZ. 1:500 HORIZ. N/A
	VERT. 1:100 VERT. N/A

**PROJECT**  
LOCAL ROAD RENEWAL  
STAGE 1 & STAGE 2  
SANDY CREEK ROAD, QUORROBOLONG

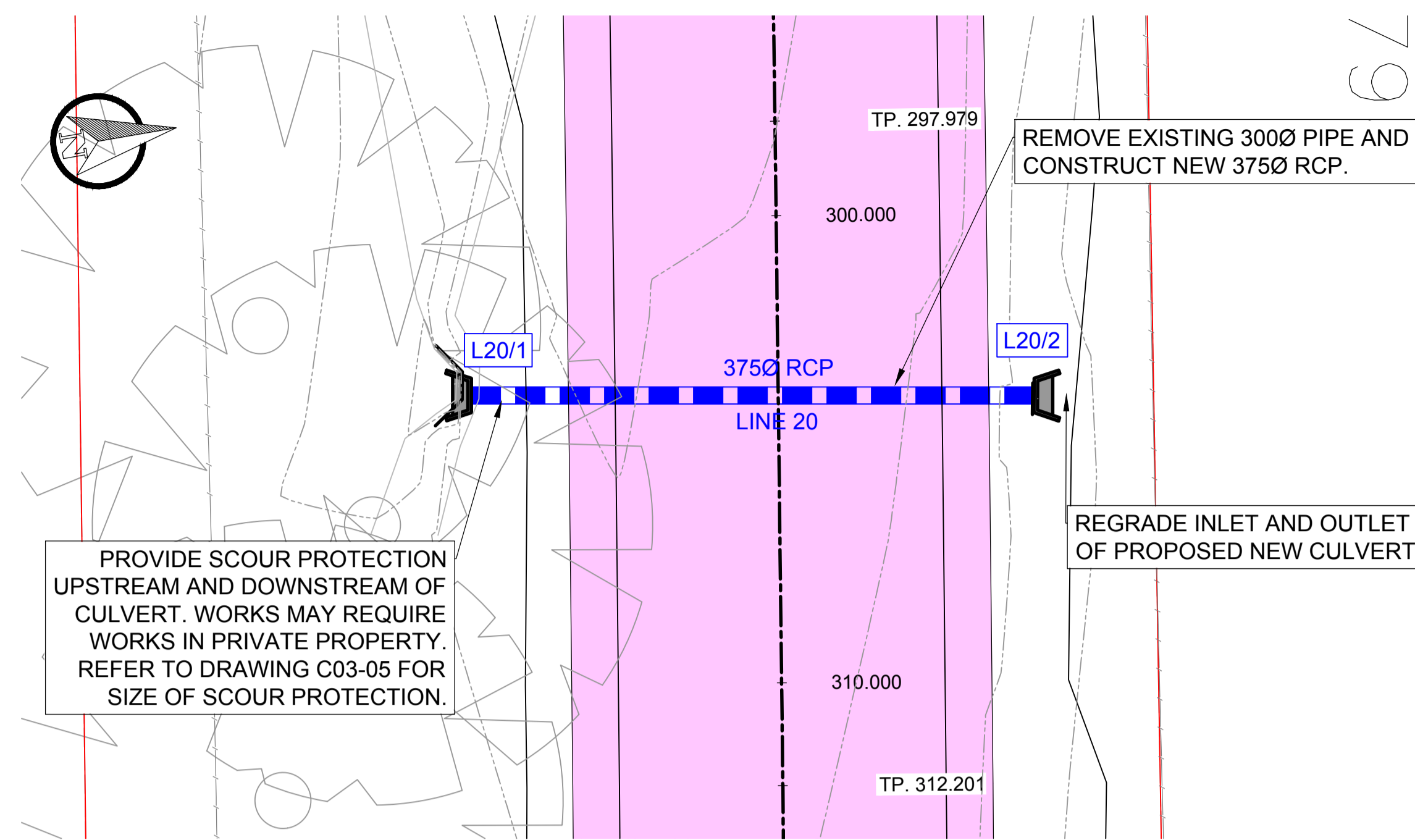
**DRAWING TITLE**  
DRAINAGE LINE 5 & 7

**SHEET 91 OF 116 SHEETS**

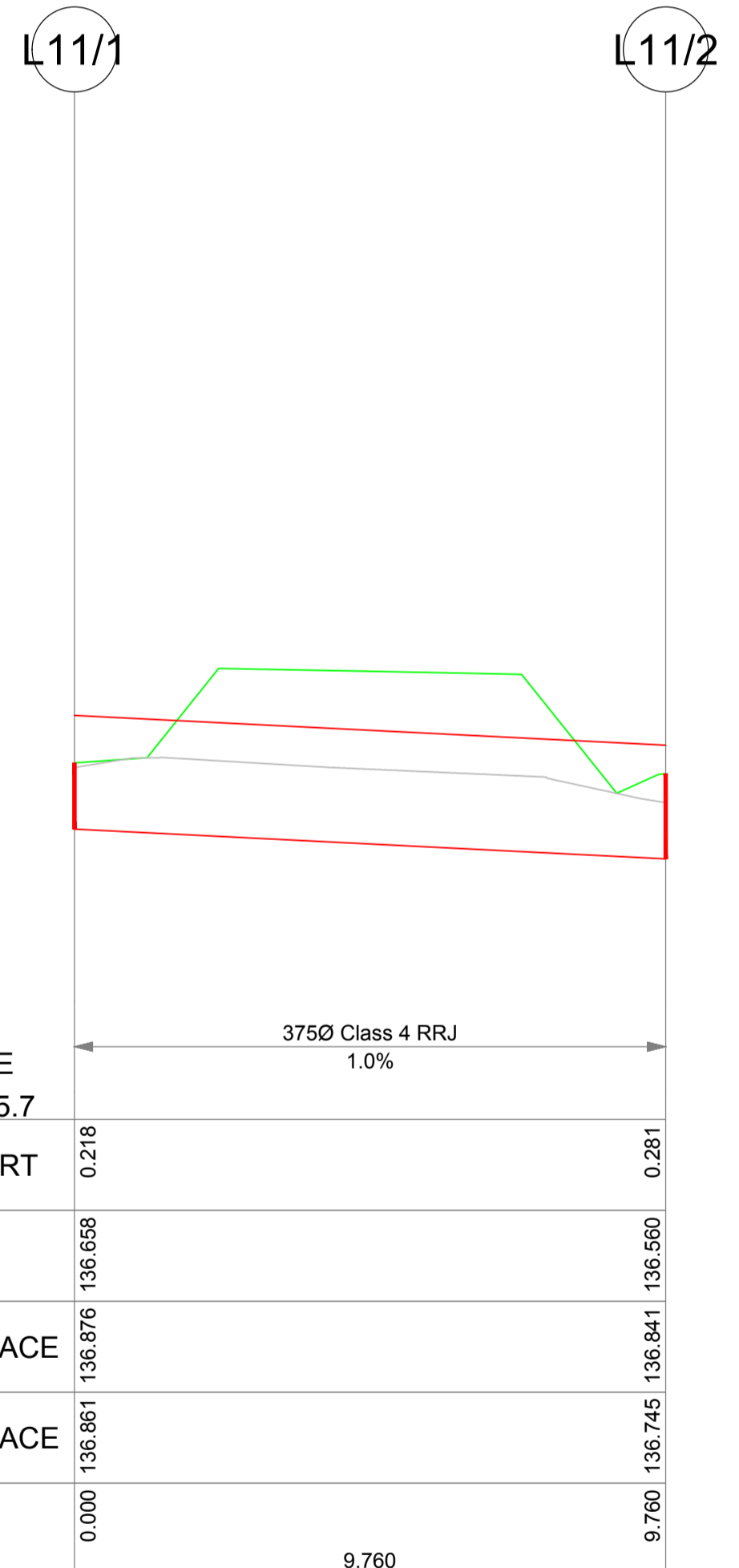
PROJECT No <b>AL22077</b>	REVISION <b>1</b>
DWG No <b>C07-91</b>	
<b>CONSTRUCTION</b>	
2 1 0 2 4 6 1:100 (A1)	



**DRAINAGE LINE 11 PLAN**  
SCALE 1:100



**DRAINAGE LINE 20 PLAN**  
SCALE 1:100



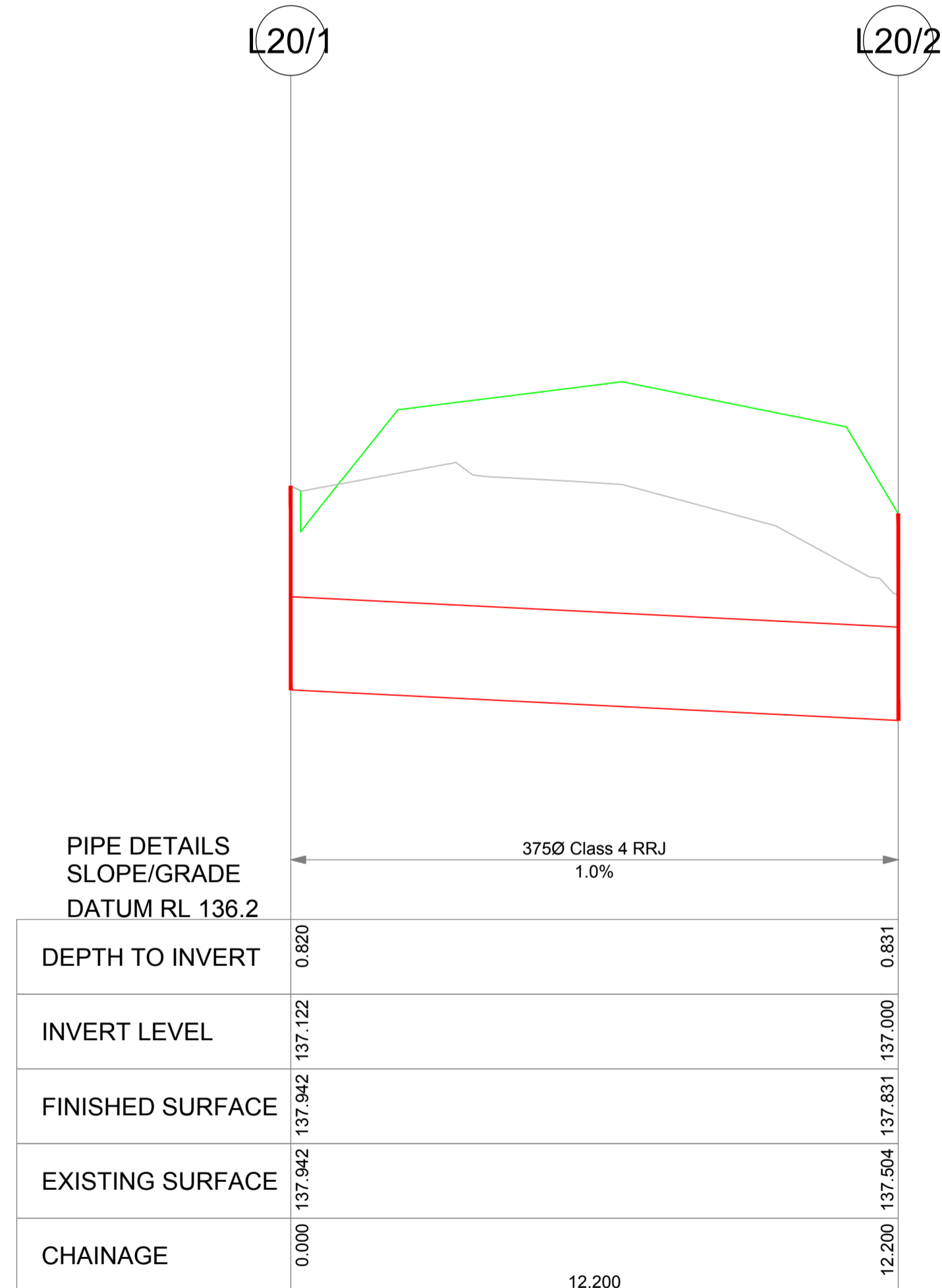
**DRAINAGE LONGITUDINAL SECTION FOR LINE L11**  
SCALES: HORIZONTAL 1:100 VERTICAL 1:20

**Setout - CH304**

Pit No.	Easting	Northing	Downstream Invert Level	Upstream Invert Level
(m)	(m)	(m)		
L20/2	347223.55	6356096.208	137.000	
L20/1	347221.47	6356084.185		137.122

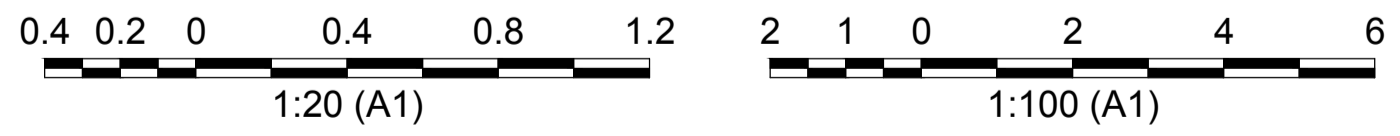
**Setout - LINE 11 DRIVEWAY 11 (CH1510)**

Pit No.	Easting	Northing	Downstream Invert Level	Upstream Invert Level
(m)	(m)	(m)		
L11/2	348403.12	6355875.108	136.560	
L11/1	348412.78	6355873.708		136.658



**DRAINAGE LONGITUDINAL SECTION FOR LINE L20**  
SCALES: HORIZONTAL 1:100 VERTICAL 1:20

- LEGEND**
- 29.0 --- CONTOURS - EXISTING
  - 29.0 --- CONTOURS - PROPOSED
  - NEW ROAD PAVEMENT
  - DRIVEWAY RECONSTRUCTION
  - PROPOSED GUARD RAIL
  - PROPOSED STORMWATER
  - EXISTING STORMWATER
  - EXISTING FENCE LINE
  - EXISTING OVER HEAD POWER
  - EXISTING TELECOM
  - △2180CR01 CONTROL MARK (SURVEY STATION)
  - EXISTING TREE
  - TREE TO BE REMOVED
  - TREE TO BE RETAINED AS PER REF



REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

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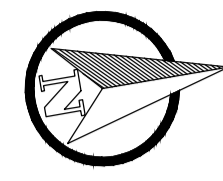
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SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M	PROJECT:	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWN:	M.M	DRAWING TITLE:	DRAINAGE LINE 11 & 20
CHECKED:	M.M		
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION CROSS SECTION
APPROVED:	M.M	1:100 (A1)	HORIZ. 1:500 HORIZ. N/A VERT. 1:100 VERT. N/A

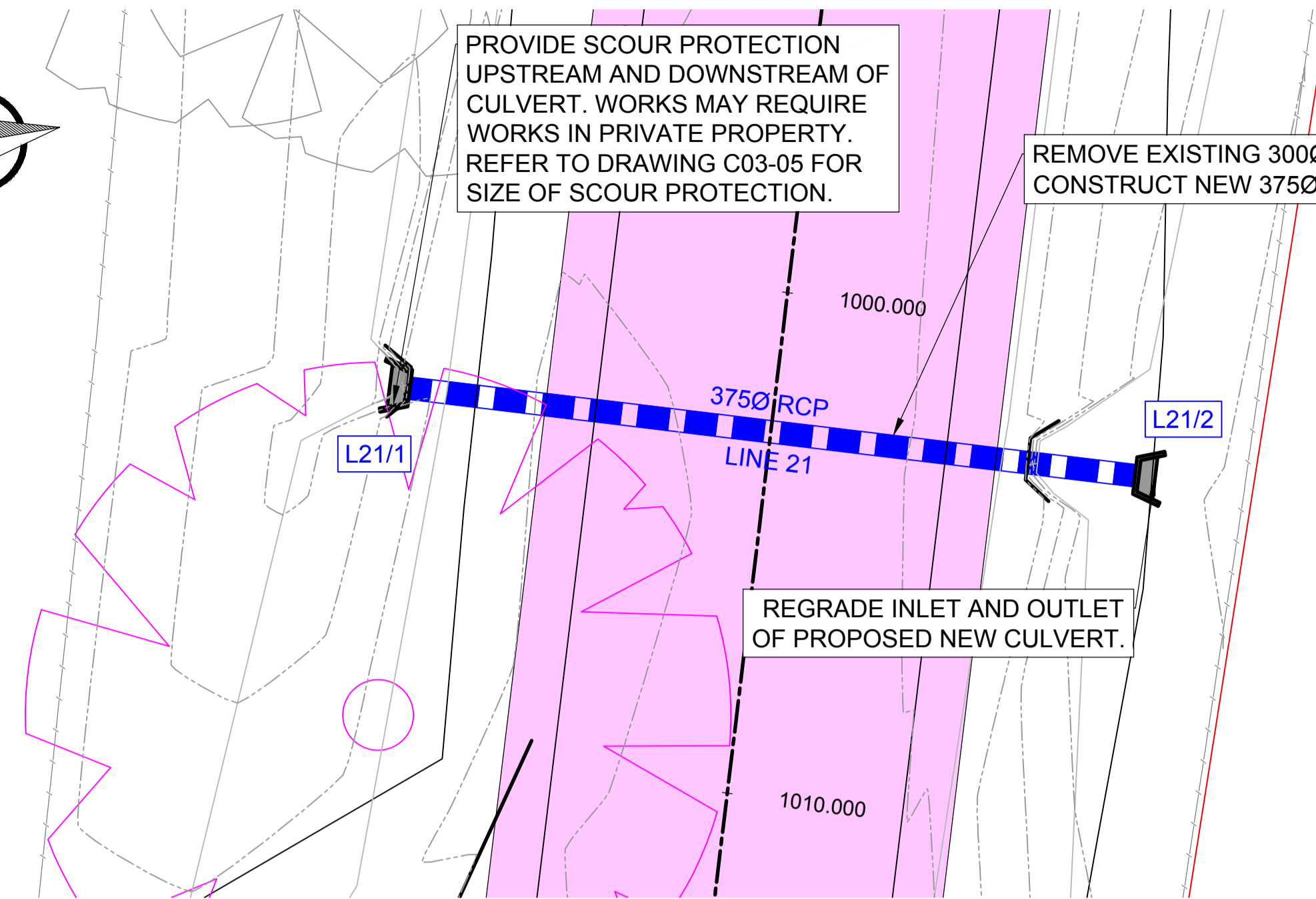
**SHEET 92 OF 116 SHEETS**

PROJECT No	AL22077	REVISION	1
DWG No	C07-92		
<b>CONSTRUCTION</b>			
SCALES: HORIZONTAL 1:100 (A1)			

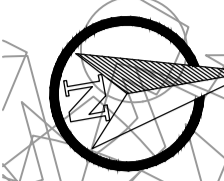


PROVIDE SCOUR PROTECTION UPSTREAM AND DOWNSTREAM OF CULVERT. WORKS MAY REQUIRE WORKS IN PRIVATE PROPERTY. REFER TO DRAWING C03-05 FOR SIZE OF SCOUR PROTECTION.

REMOVE EXISTING 300Ø PIPE AND CONSTRUCT NEW 375Ø RCP.

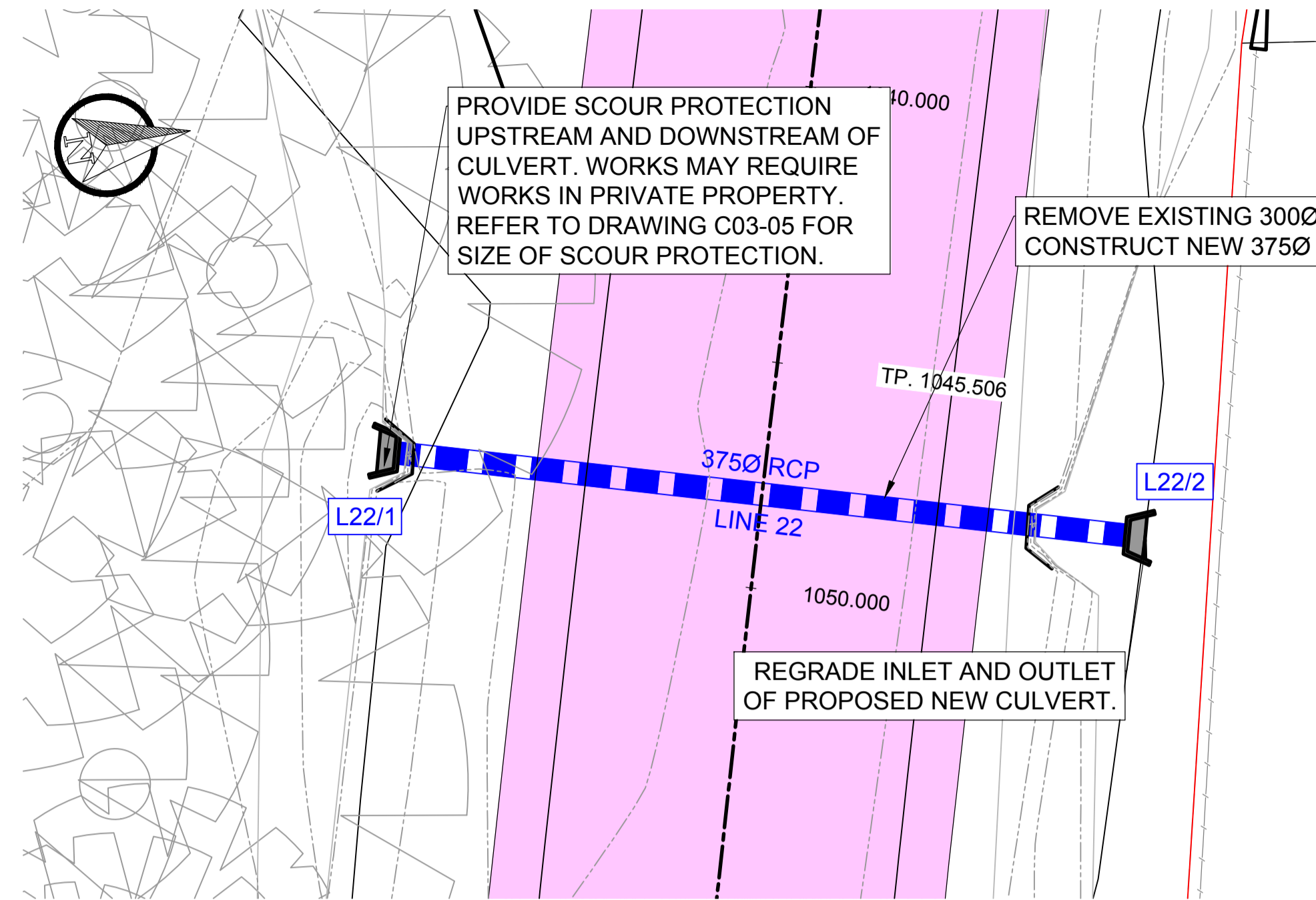


**DRAINAGE LINE 21 PLAN**  
SCALE 1:100



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REMOVE EXISTING 300Ø PIPE AND CONSTRUCT NEW 375Ø RCP.



**DRAINAGE LINE 22 PLAN**  
SCALE 1:100

L21/1

L21/2



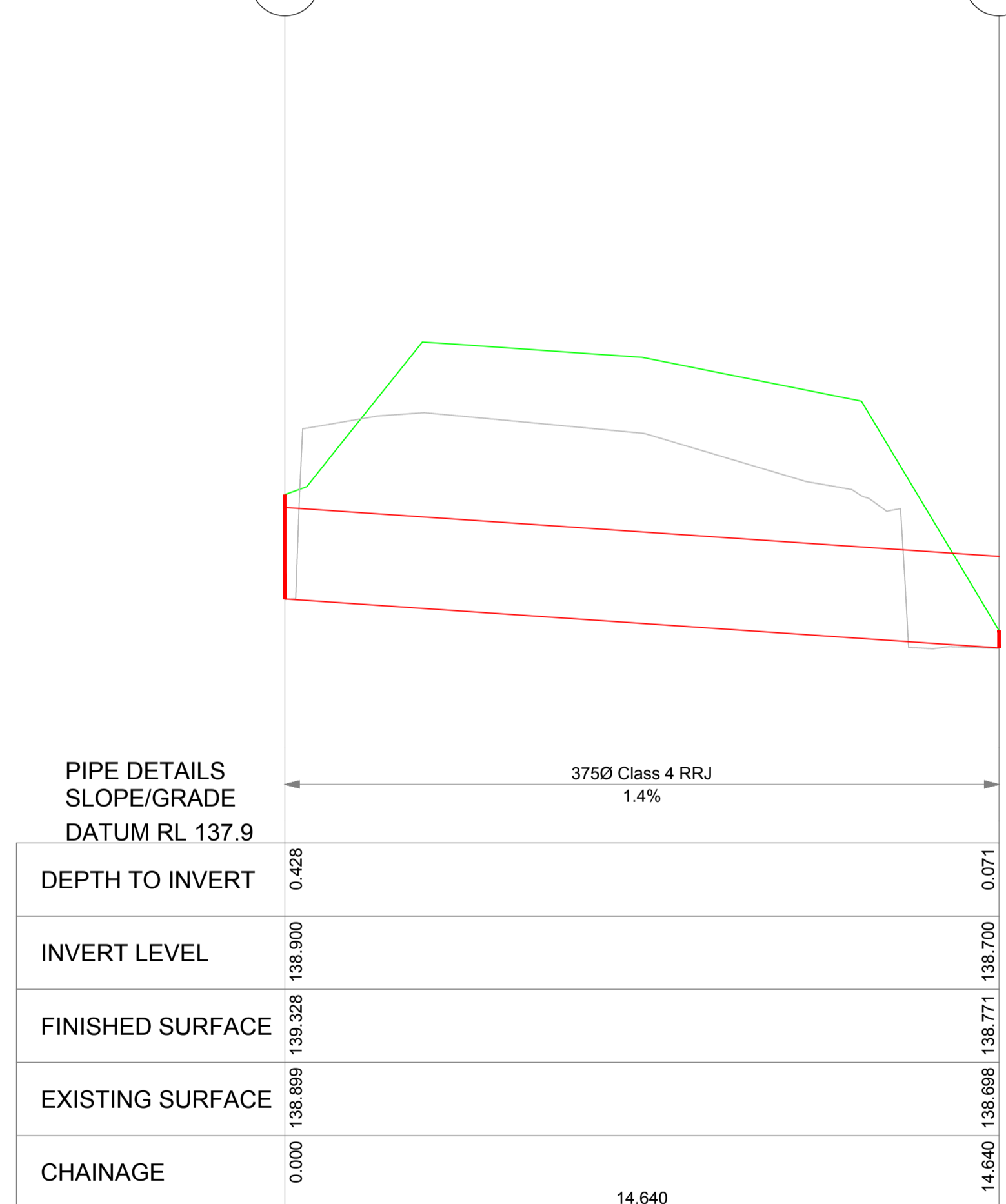
**DRAINAGE LONGITUDINAL SECTION FOR LINE L21**  
SCALES: HORIZONTAL 1:100 VERTICAL 1:20

Pit No.	Easting	Northing	Downstream Invert Level	Upstream Invert Level
(m)	(m)	(m)		
L21/2	347912.51	6355977.029	138.640	
L21/1	347908.31	6355963.003		138.820

Pit No.	Easting	Northing	Downstream Invert Level	Upstream Invert Level
(m)	(m)	(m)		
L22/2	347955.90	6355964.026	138.700	
L22/1	347951.81	6355949.969		138.900

L22/1

L22/2



**DRAINAGE LONGITUDINAL SECTION FOR LINE L22**  
SCALES: HORIZONTAL 1:100 VERTICAL 1:20

- LEGEND**
- 29.0 --- CONTOURS - EXISTING
  - 29.0 --- CONTOURS - PROPOSED
  - NEW ROAD PAVEMENT
  - DRIVEWAY RECONSTRUCTION
  - PROPOSED GUARD RAIL
  - PROPOSED STORMWATER
  - EXISTING STORMWATER
  - EXISTING FENCE LINE
  - EXISTING OVER HEAD POWER
  - EXISTING TELECOM
  - CONTROL MARK (SURVEY STATION)
  - EXISTING TREE
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0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

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SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M		
DRAWN:	M.M		
CHECKED:	M.M		
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION HORIZ. 1:500 VERT. 1:100
APPROVED:	M.M		CROSS SECTION HORIZ. N/A VERT. N/A

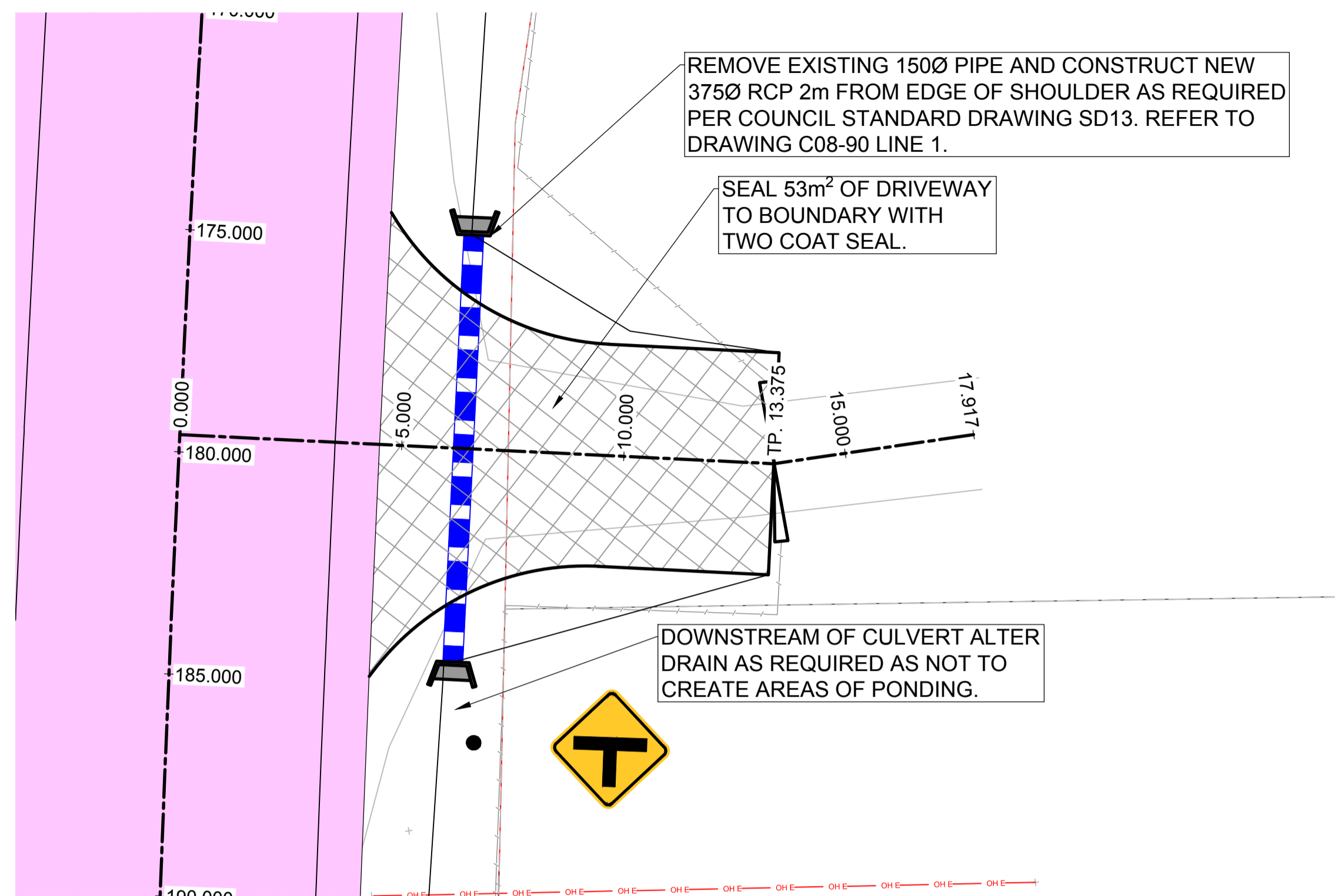
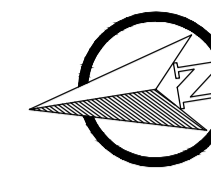
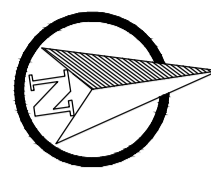
PROJECT  
**LOCAL ROAD RENEWAL  
STAGE 1 & STAGE 2  
SANDY CREEK ROAD, QUORROBOLONG**

DRAWING TITLE  
**DRAINAGE LINE 21 & 22**

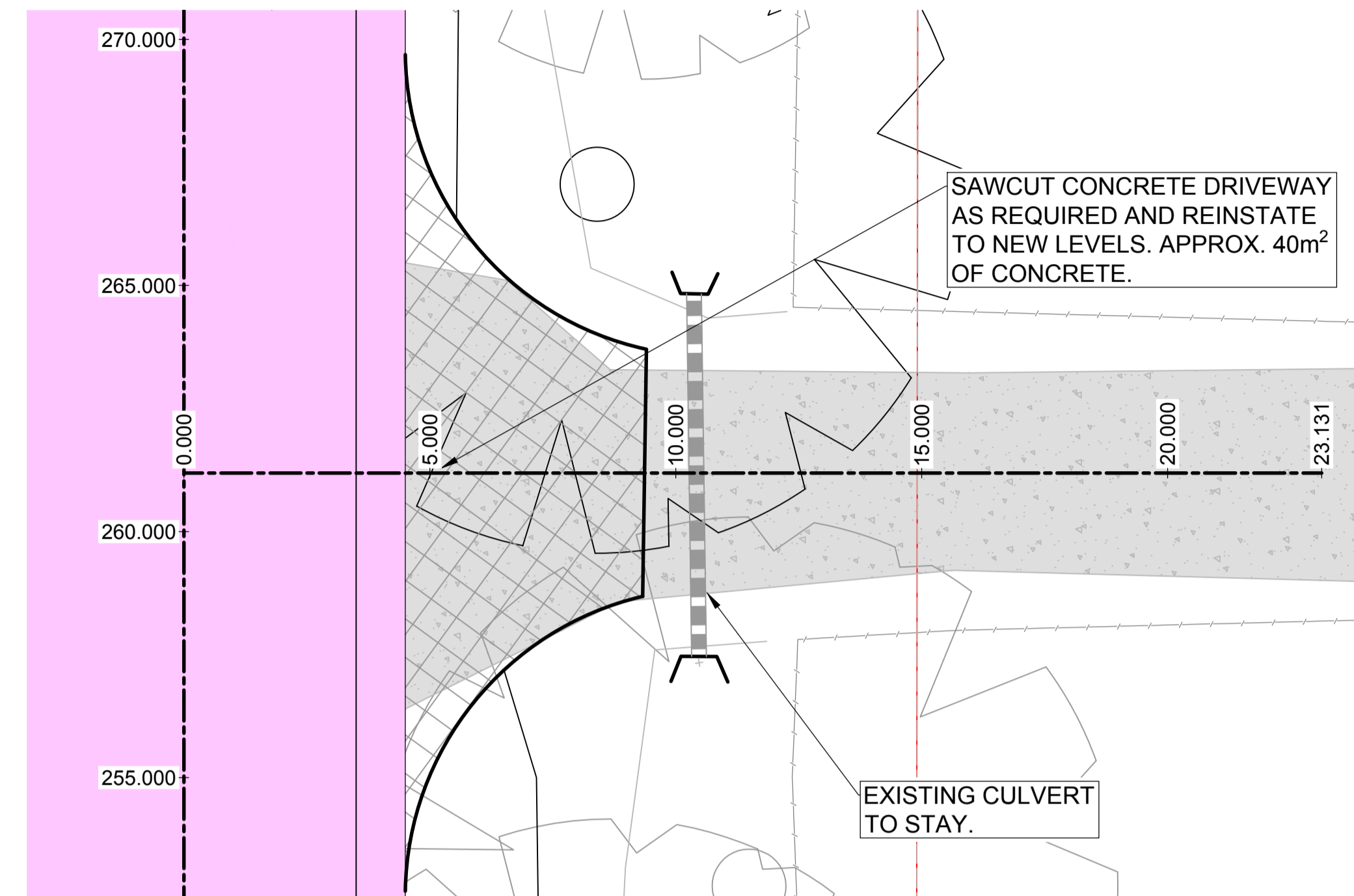
**SHEET 93 OF 116 SHEETS**

PROJECT No	AL22077	REVISION	1
DWG No	C07-93		

**CONSTRUCTION**



DRIVEWAY PLAN  
SCALE 1:100



DRIVEWAY PLAN  
SCALE 1:100

LEGEND

- 29.0 --- CONTOURS - EXISTING
- - - 29.0 - - - CONTOURS - PROPOSED
- NEW ROAD PAVEMENT
- DRIVEWAY RECONSTRUCTION
- PROPOSED GUARD RAIL
- PROPOSED STORMWATER
- EXISTING STORMWATER
- EXISTING FENCE LINE
- EXISTING OVER HEAD POWER
- EXISTING TELECOM
- △ 2180CR01 CONTROL MARK (SURVEY STATION)
- EXISTING TREE
- TREE TO BE REMOVED
- TREE TO BE RETAINED AS PER REF

DEPTH	DESIGN	EXISTING	CHAINAGE
+0.403	139.945	139.54	0.000
+0.484	139.805	139.32	3.500
+0.521	139.765	139.24	4.500
+0.471	139.734	139.26	5.682
+0.419	139.675	139.26	7.041
+0.306	139.566	139.26	8.400
+0.207	139.474	139.27	9.376
+0.148	139.418	139.27	10.000
+0.053	139.328	139.28	11.375
+0.000	139.277	139.28	13.374
+0.000	139.277	139.28	13.375
			17.917

ROAD No.  
Ch 0.000 to Ch 17.917  
H=1:100 V=1:100

DEPTH	DESIGN	EXISTING	CHAINAGE
+0.406	138.795	138.39	0.000
+0.240	138.708	138.47	3.500
+0.218	138.683	138.46	4.500
+0.217	138.681	138.46	4.567
+0.182	138.640	138.46	5.667
+0.124	138.566	138.46	6.567
+0.061	138.530	138.47	7.501
+0.016	138.488	138.47	8.500
+0.001	138.478	138.48	9.262
+0.000	138.479	138.48	9.499
+0.000	138.46	138.46	10.000
			20.000
			23.131

ROAD No.  
Ch 0.000 to Ch 23.131  
H=1:100 V=1:100



DISCLAIMER

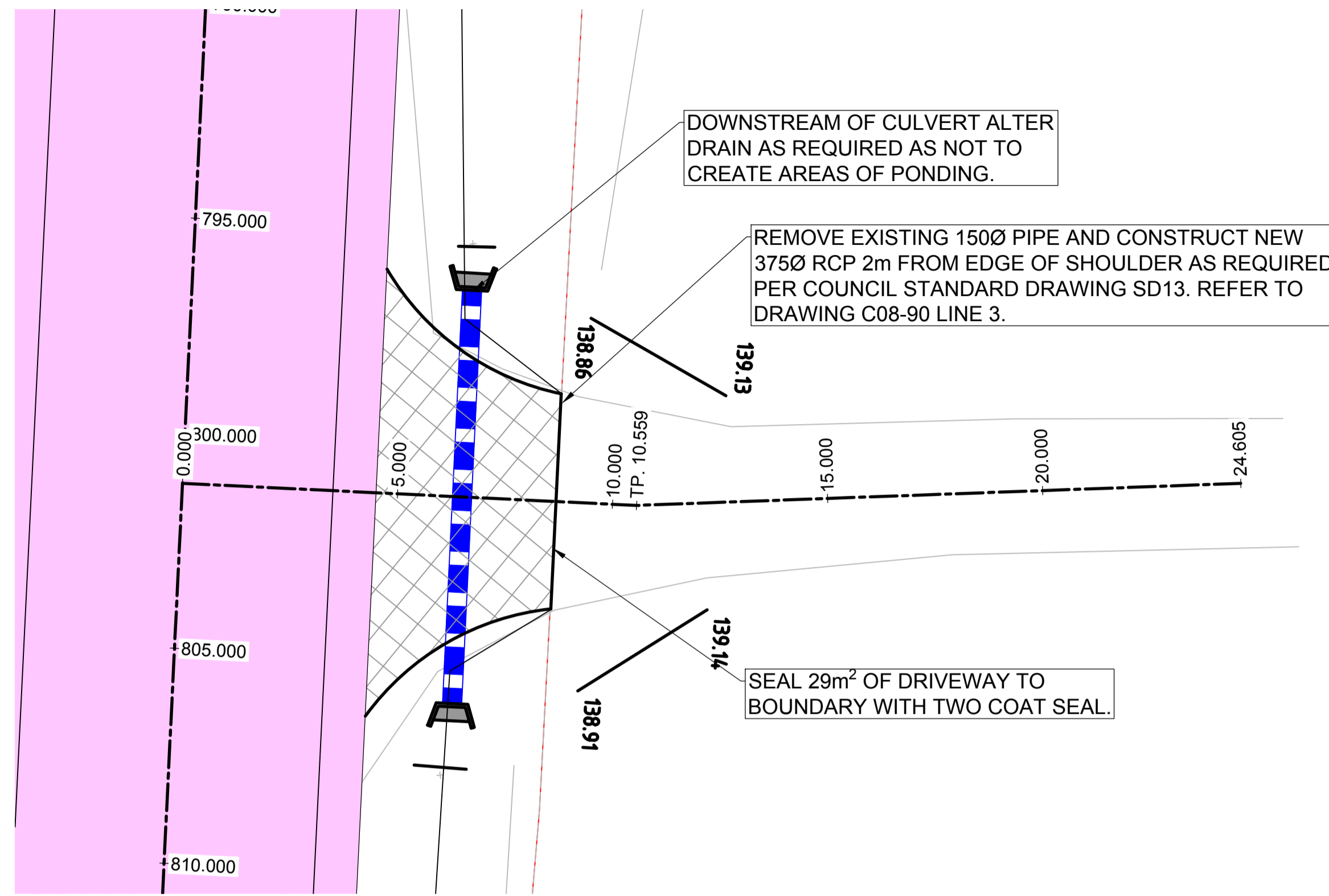
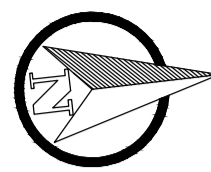
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SURVEY:	DELFS LASCELLES
DESIGN:	M.M
DRAWN:	M.M
CHECKED:	M.M
DATE:	11.08.2023
APPROVED:	M.M

CLIENT	CESSNOCK CITY COUNCIL	
PLAN:	LONGITUDINAL SECTION	CROSS SECTION
1:100 (A1)	HORIZ. 1:100	HORIZ. N/A
	VERT. 1:100	VERT. N/A

PROJECT	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG	
DRAWING TITLE	DRIVEWAY 1 & 2 PLAN & LONGITUDINAL SECTION	
SHEET	94 OF 116 SHEETS	

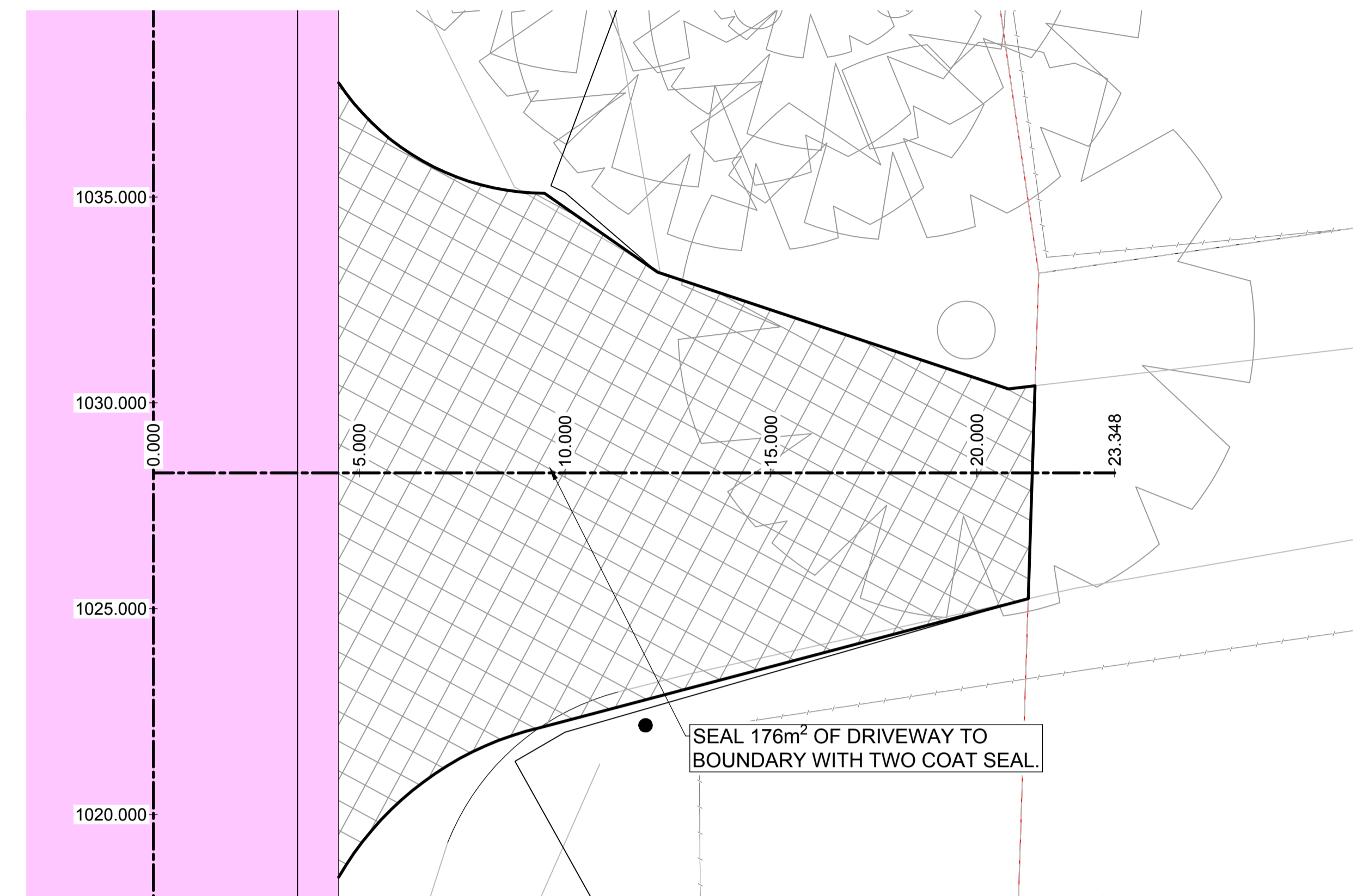
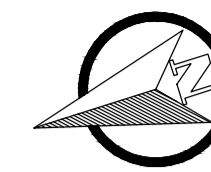
PROJECT No	AL22077	REVISION	1
DWG No	C08-94		
<b>CONSTRUCTION</b>			
2 1 0 2 4 6 1:100 (A1)			



**DRIVEWAY PLAN**  
SCALE 1:100

DEPTH	DESIGN	EXISTING	CHAINAGE
+0.420	138.905	138.49	0.000
+0.327	138.785	138.46	3.500
+0.232	138.751	138.52	4.500
+0.216	138.747	138.53	4.637
+0.141	138.737	138.60	5.429
+0.089	138.747	138.66	6.197
+0.026	138.828	138.80	7.758
+0.000	138.901	138.90	8.685
		139.00	10.000
		139.04	10.559
			20.000
			139.12
			24.605

ROAD No.  
Ch 0.000 to Ch 24.605  
H=1:100 V=1:100



**DRIVEWAY PLAN**  
SCALE 1:100

DEPTH	DESIGN	EXISTING	CHAINAGE
+0.370	139.923	139.55	0.000
+0.291	139.932	139.64	3.500
+0.272	139.935	139.66	4.500
+0.257	139.931	139.67	5.095
+0.198	139.901	139.70	6.797
+0.115	139.837	139.72	8.500
+0.046	139.783	139.74	10.000
+0.030	139.772	139.74	10.500
+0.004	139.760	139.76	11.801
+0.000	139.763	139.76	12.500
+0.000	139.763	139.77	12.695
			20.000
			139.94
			140.03
			23.348

ROAD No.  
Ch 0.000 to Ch 23.348  
H=1:100 V=1:100

**LEGEND**

	29.0	CONTOURS - EXISTING
	29.0	CONTOURS - PROPOSED
		NEW ROAD PAVEMENT
		DRIVEWAY RECONSTRUCTION
		PROPOSED GUARD RAIL
		PROPOSED STORMWATER
		EXISTING STORMWATER
		EXISTING FENCE LINE
		EXISTING OVER HEAD POWER
		EXISTING TELECOM
	2180CR01	CONTROL MARK (SURVEY STATION)
		EXISTING TREE
		TREE TO BE REMOVED
		TREE TO BE RETAINED AS PER REF



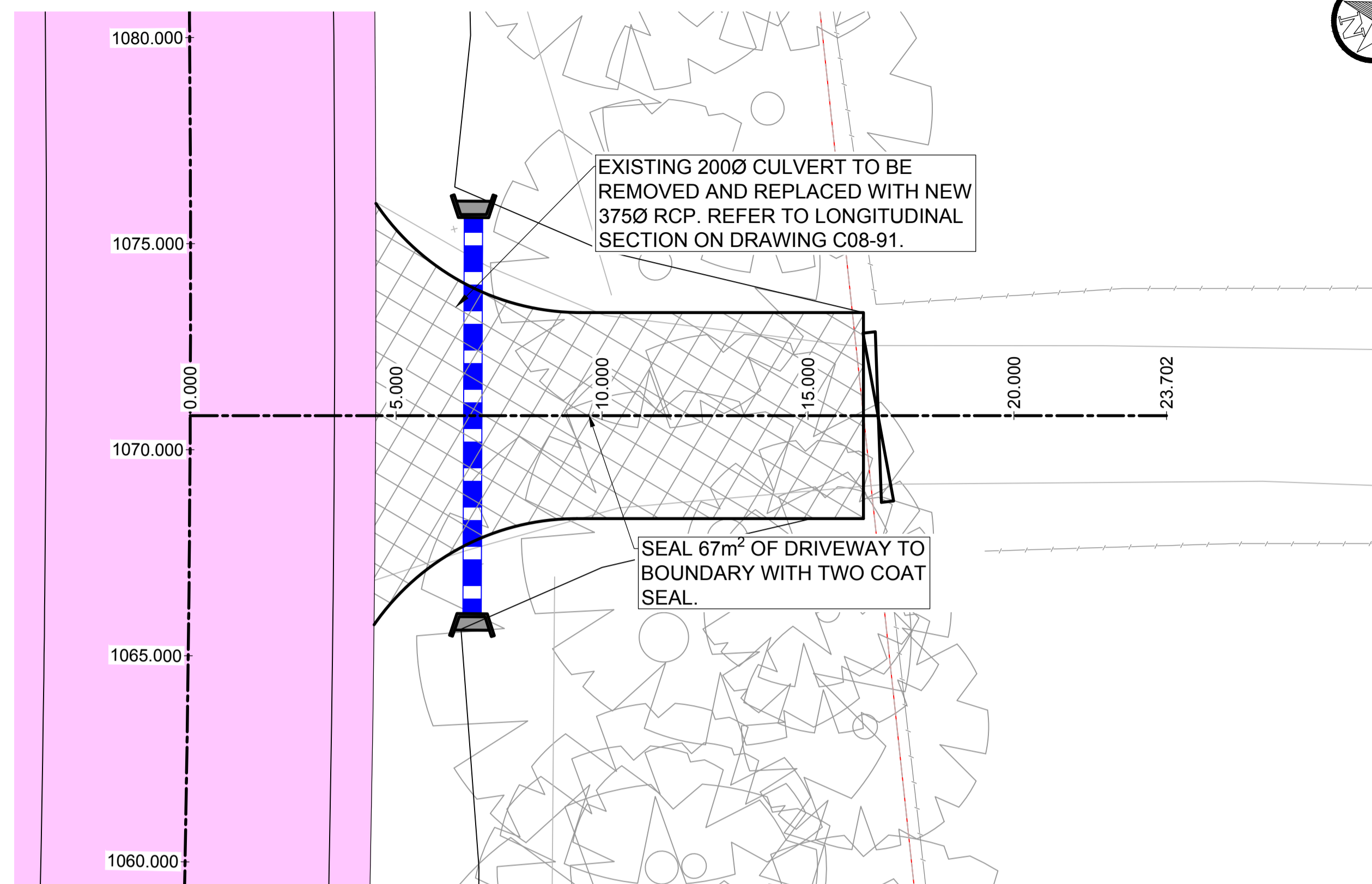
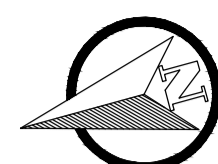
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SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M	PROJECT:	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWN:	M.M	DRAWING TITLE:	DRIVEWAY 3 & 4 PLAN & LONGITUDINAL SECTION
CHECKED:	M.M	DATE:	11.08.2023
APPROVED:	M.M	PLAN:	1:100 (A1)
		LONGITUDINAL SECTION:	HORIZ. 1:100 VERT. 1:100
		CROSS SECTION:	HORIZ. N/A VERT. N/A

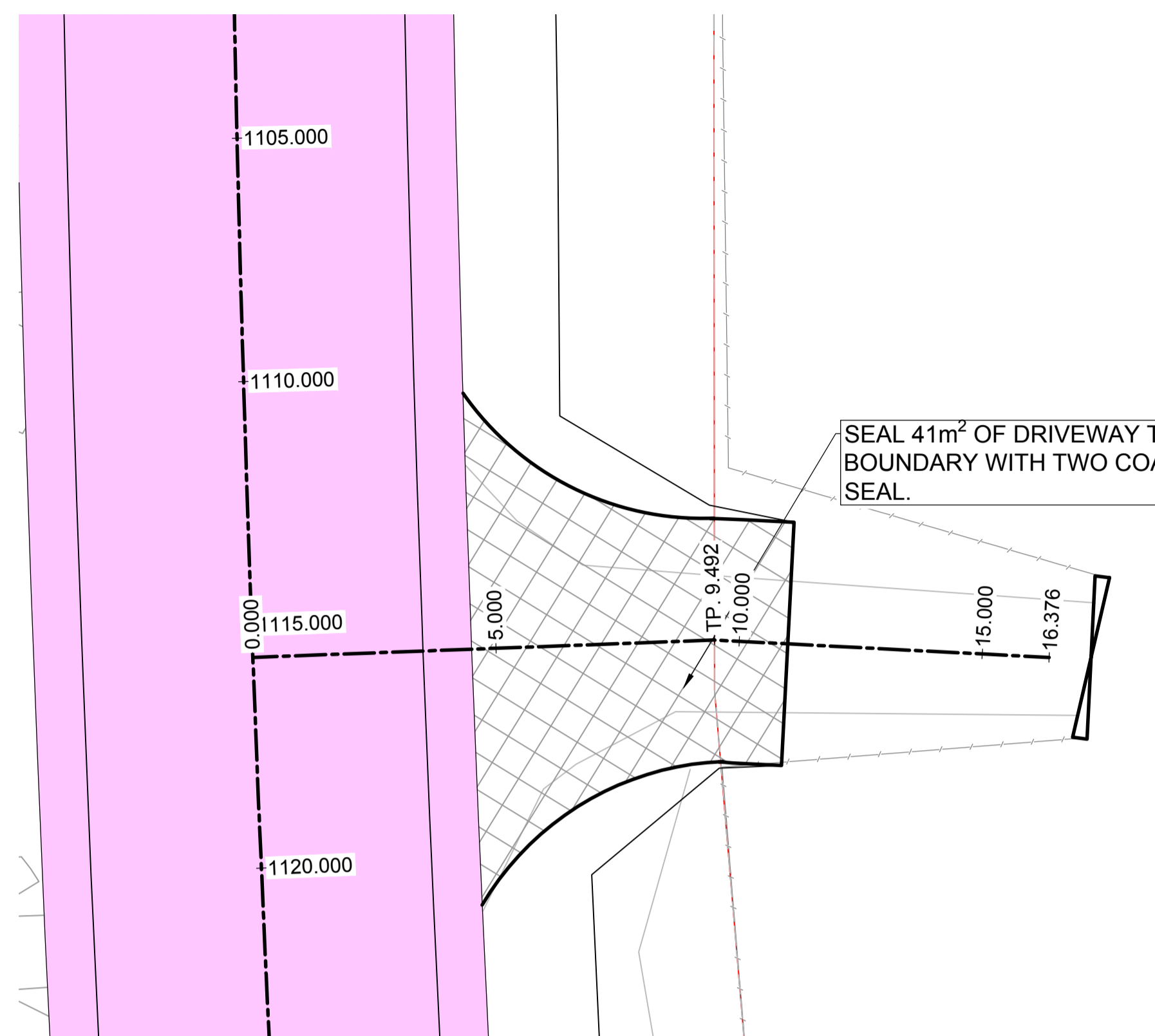
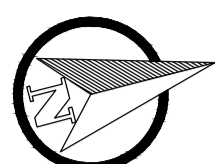
PROJECT No:	AL22077	REVISION:	1
DWG No:	C08-95	<b>CONSTRUCTION</b>	
SHEET 95 OF 116 SHEETS			

2 1 0 2 4 6	
1:100 (A1)	





DRIVEWAY PLAN  
SCALE 1:100



DRIVEWAY PLAN  
SCALE 1:100

LEGEND

- 29.0 --- CONTOURS - EXISTING
- 29.0 --- CONTOURS - PROPOSED
- NEW ROAD PAVEMENT
- DRIVEWAY RECONSTRUCTION
- PROPOSED GUARD RAIL
- PROPOSED STORMWATER
- EXISTING STORMWATER
- EXISTING FENCE LINE
- EXISTING OVER HEAD POWER
- EXISTING TELECOM
- 2180CR01 CONTROL MARK (SURVEY STATION)
- EXISTING TREE
- TREE TO BE REMOVED
- TREE TO BE RETAINED AS PER REF

DEPTH	DESIGN	EXISTING	CHAINAGE
			0.000
			3.500
			4.500
			5.000
			5.885
			6.640
			8.280
			10.000
			12.131
			14.131
			14.416
			15.000
			16.131
			16.346
			20.000
			23.702

ROAD No.  
Ch 0.000 to Ch 23.702  
H=1:100 V=1:100

DEPTH	DESIGN	EXISTING	CHAINAGE
			0.000
			3.500
			4.500
			5.000
			6.250
			8.000
			9.492
			9.500
			10.000
			11.000
			15.000
			16.376

ROAD No.  
Ch 0.000 to Ch 16.376  
H=1:100 V=1:100



AL Civil Design  
GILLJESTON HEIGHTS NSW 2321  
0466 253 917

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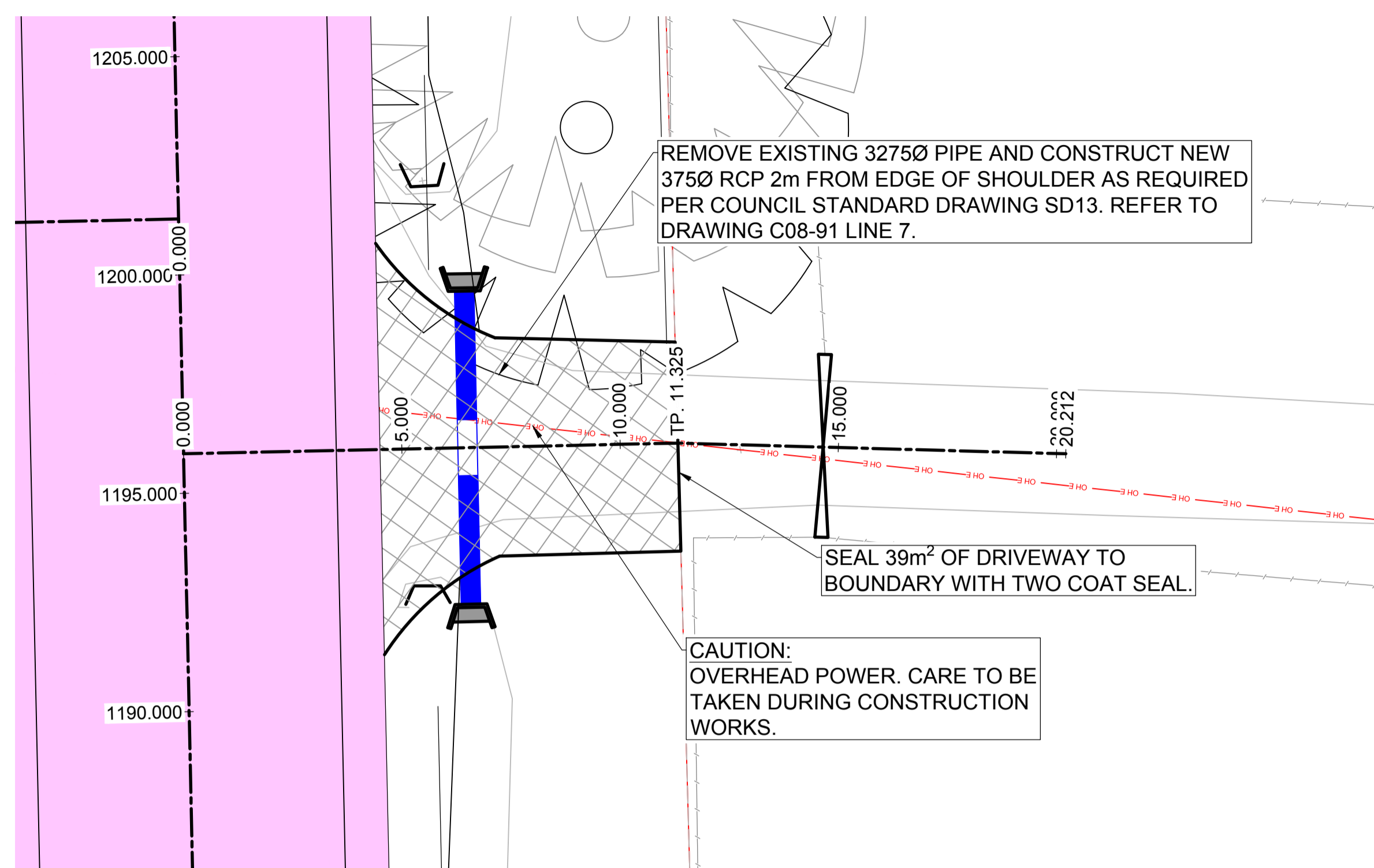
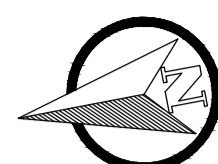
REV	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE

SURVEY:	DELFS LASCELLES
DESIGN:	M.M
DRAWN:	M.M
CHECKED:	M.M
DATE:	11.08.2023
APPROVED:	M.M

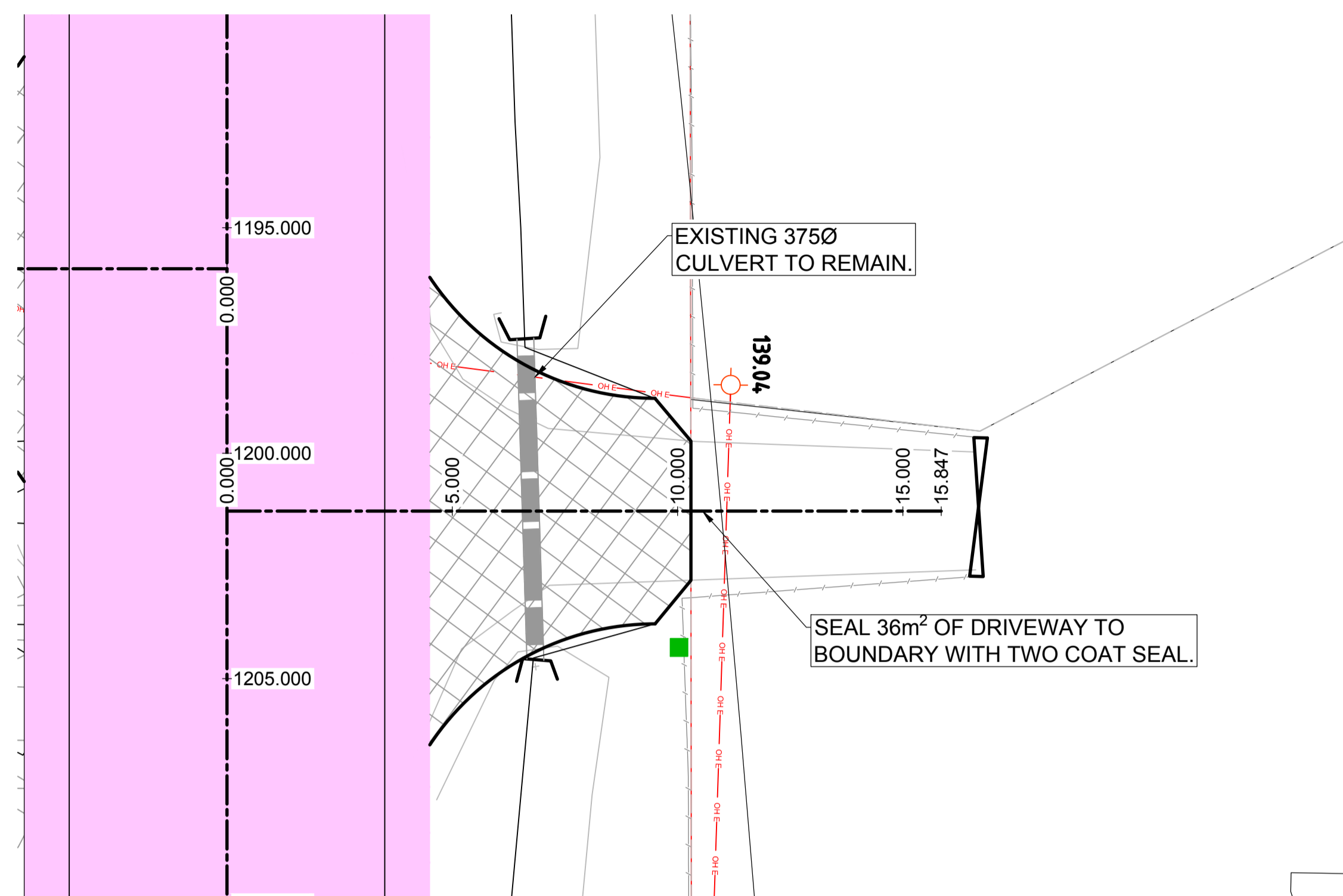
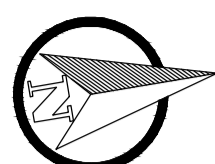
CLIENT	CESSNOCK CITY COUNCIL		
PLAN:	LONGITUDINAL SECTION	CROSS SECTION	
1:100 (A1)	HORIZ. 1:100	HORIZ. N/A	
	VERT. 1:100	VERT. N/A	

PROJECT	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG		
DRAWING TITLE	DRIVEWAY 5 & 6 PLAN & LONGITUDINAL SECTION		
SHEET	96	OF	116 SHEETS

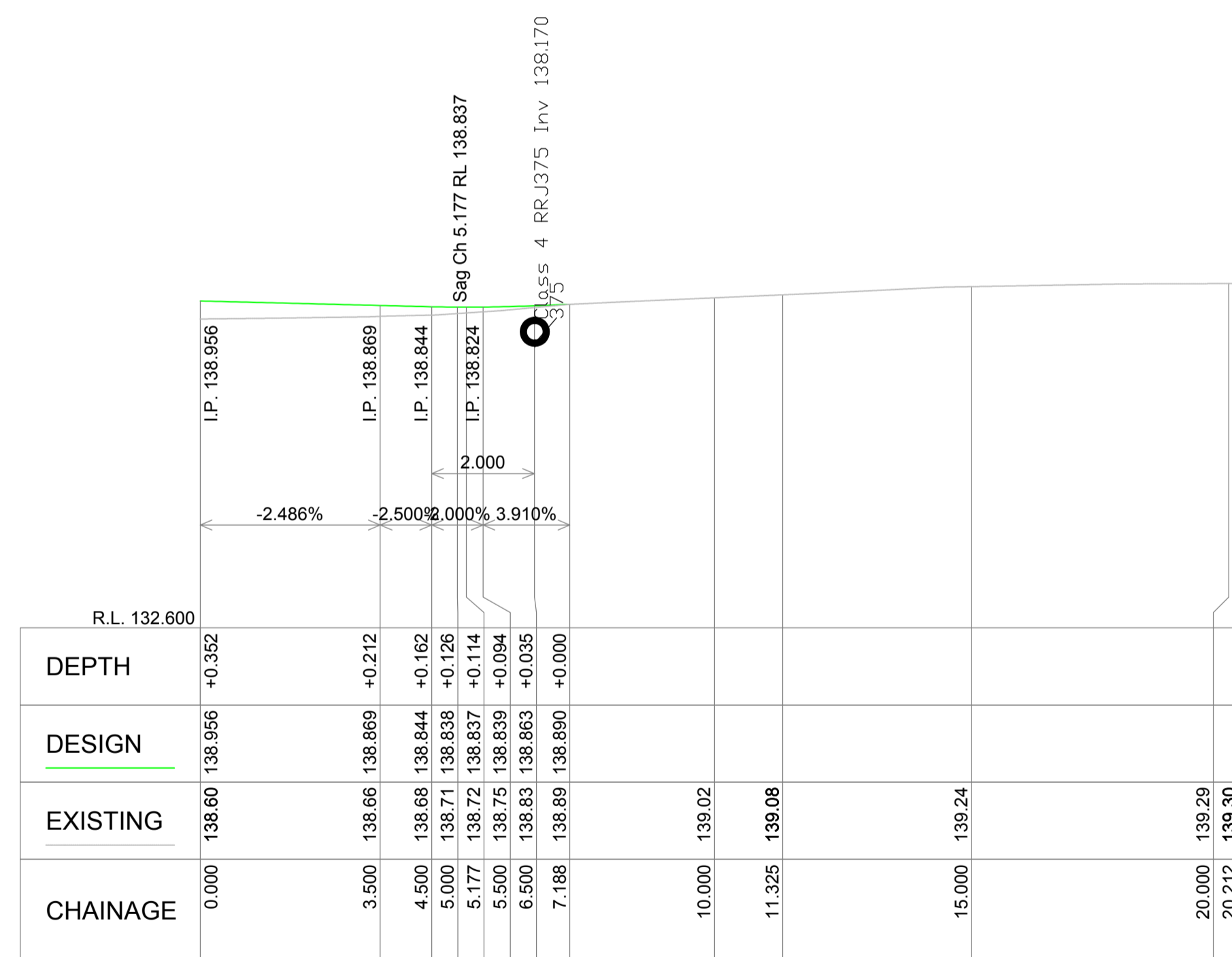
PROJECT No	AL22077	REVISION	1
DWG No	C08-96		
<b>CONSTRUCTION</b>			



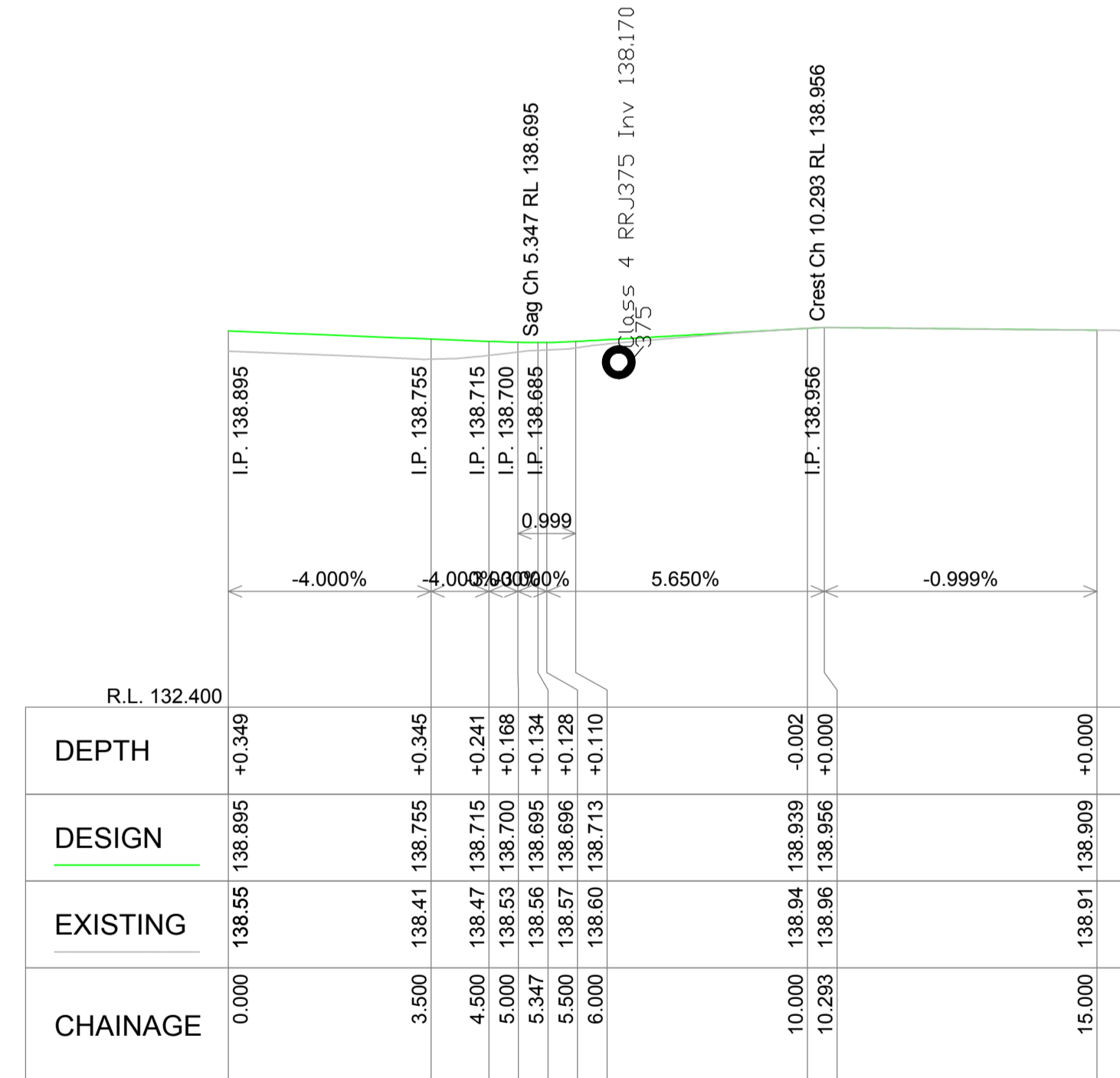
DRIVEWAY PLAN  
SCALE 1:100



DRIVEWAY PLAN  
SCALE 1:100



ROAD No.  
Ch 0.000 to Ch 20.212  
H=1:100 V=1:100



ROAD No.  
Ch 0.000 to Ch 15.847  
H=1:100 V=1:100

**LEGEND**

- 29.0 --- CONTOURS - EXISTING
- ... 29.0 ... CONTOURS - PROPOSED
- NEW ROAD PAVEMENT
- DRIVEWAY RECONSTRUCTION
- PROPOSED GUARD RAIL
- PROPOSED STORMWATER
- EXISTING STORMWATER
- EXISTING FENCE LINE
- EXISTING OVER HEAD POWER
- EXISTING TELECOM
- △ 2180CR01 CONTROL MARK (SURVEY STATION)
- EXISTING TREE
- TREE TO BE REMOVED
- TREE TO BE RETAINED AS PER REF



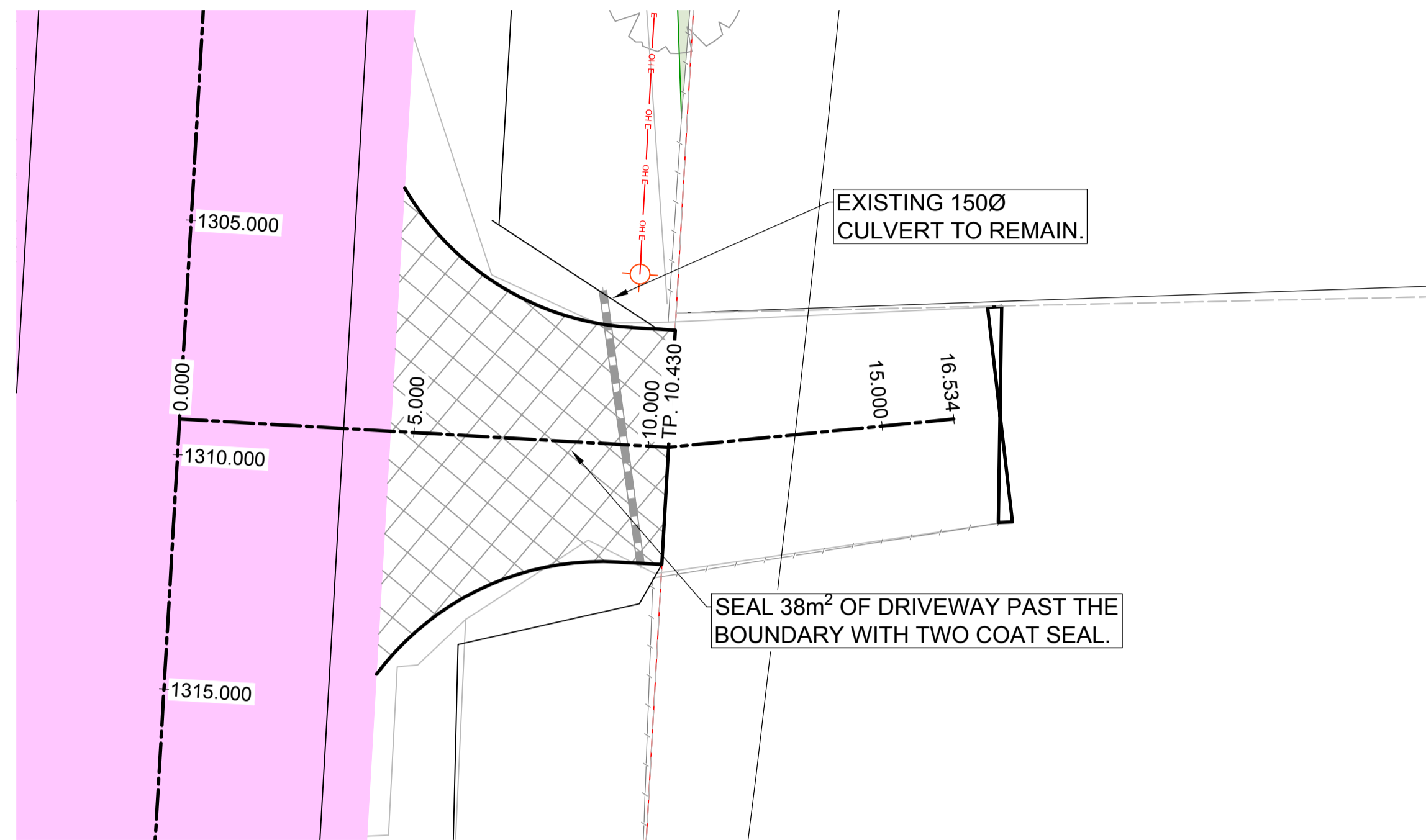
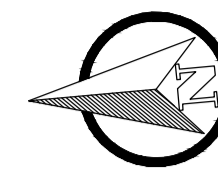
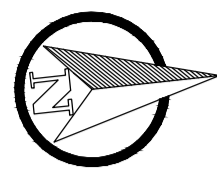
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0466 253 917

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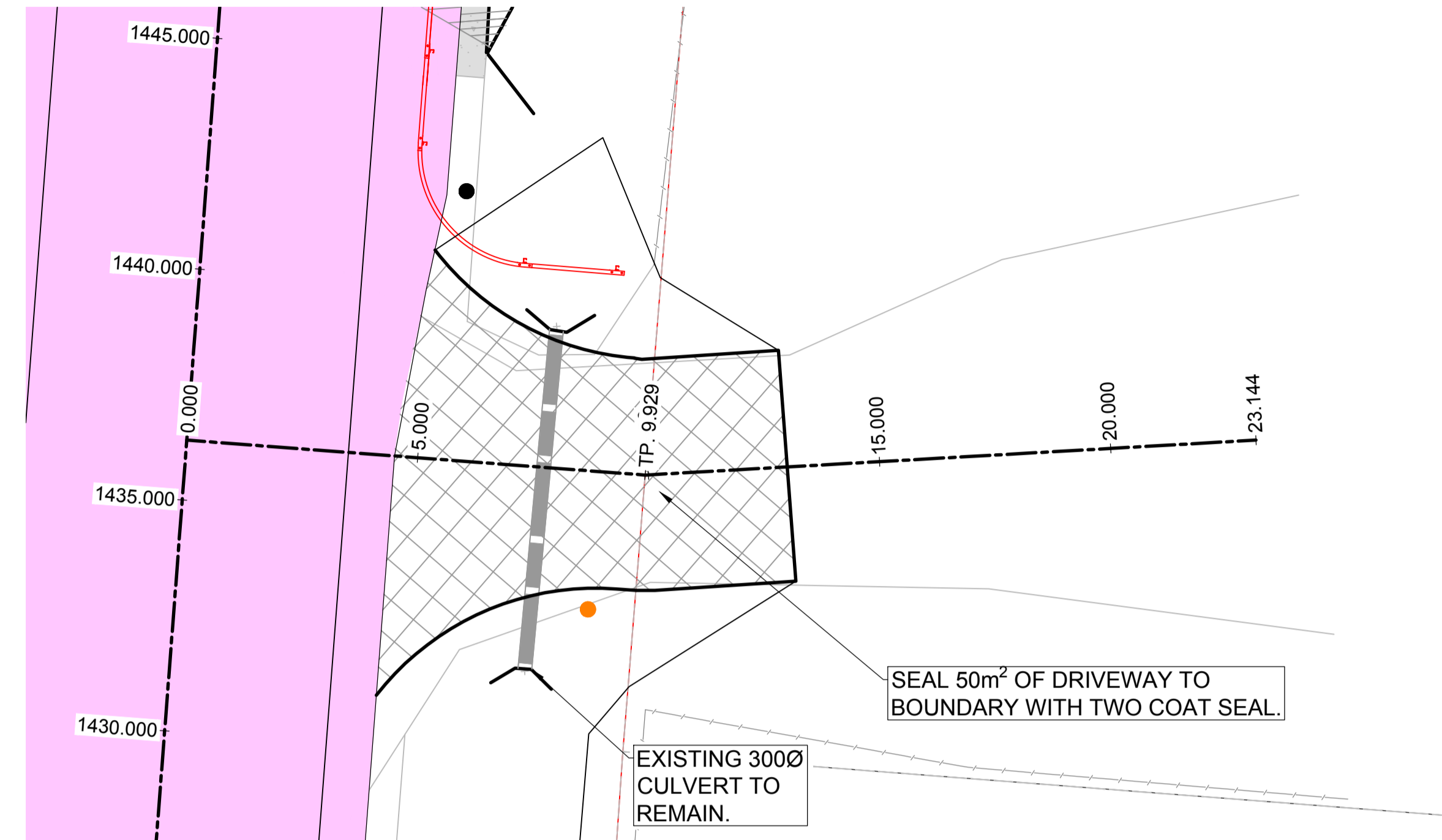
SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL	
DESIGN:	M.M	PROJECT:	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG	
DRAWN:	M.M	DRAWING TITLE:	DRIVEWAY 7 & 8 PLAN & LONGITUDINAL SECTION	
CHECKED:	M.M	SHEET:	97 OF 116 SHEETS	
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION	CROSS SECTION
APPROVED:	M.M	1:100 (A1)	HORIZ. 1:100 VERT. 1:100	HORIZ. N/A VERT. N/A

PROJECT No:	AL22077	REVISION:	1
DWG No:	C08-97	<b>CONSTRUCTION</b>	

1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE



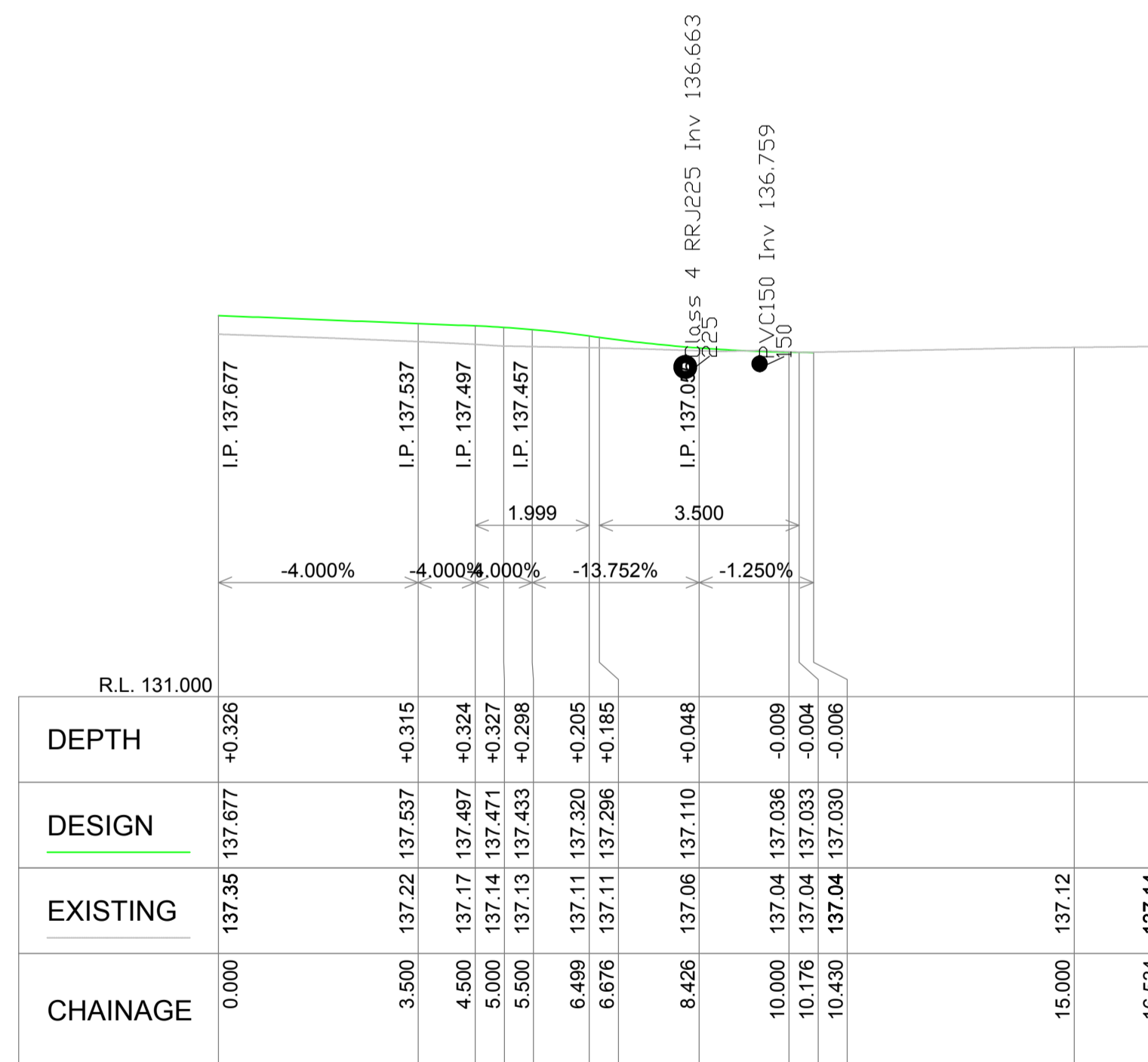
DRIVEWAY PLAN  
SCALE 1:100



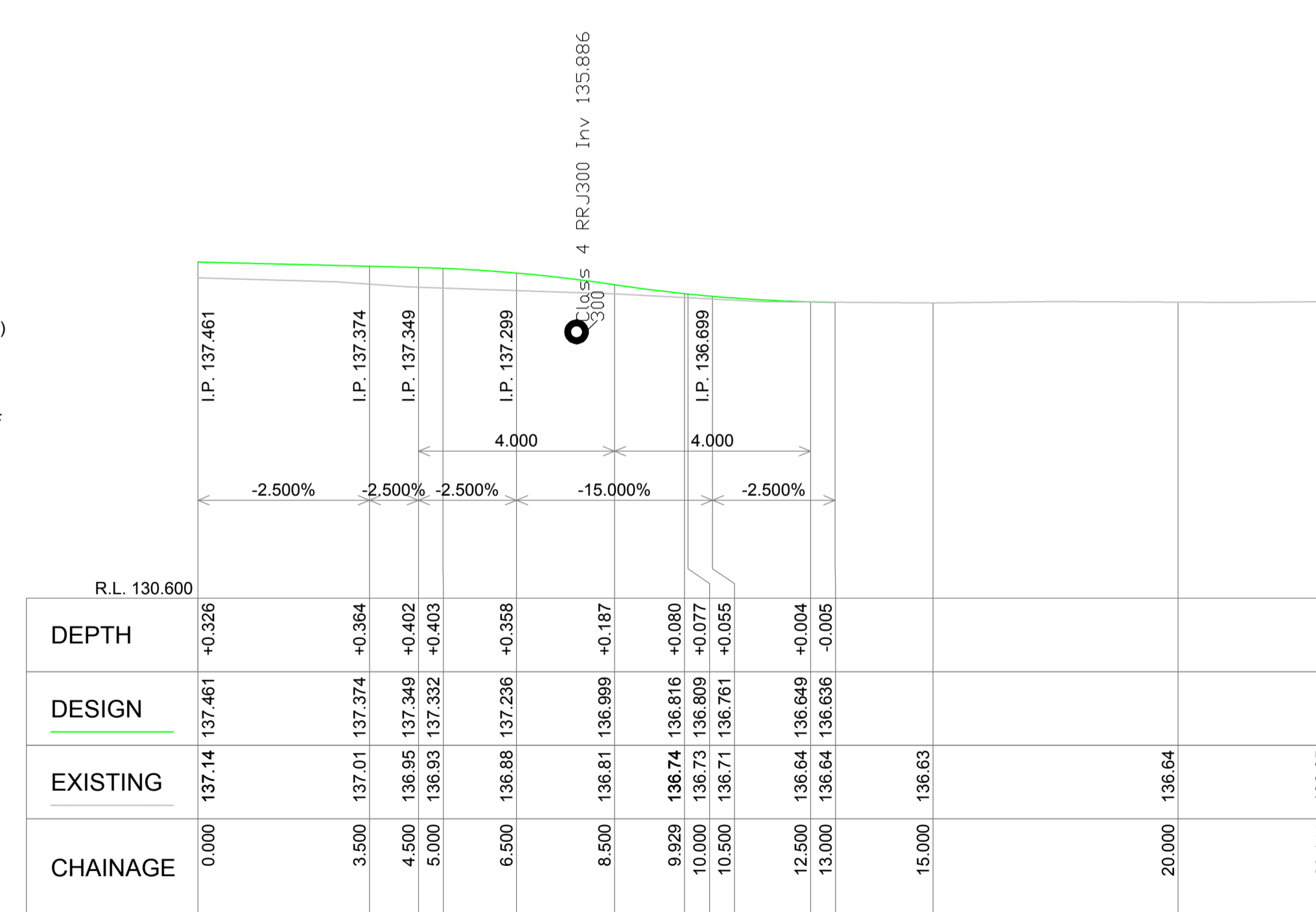
DRIVEWAY PLAN  
SCALE 1:100

LEGEND

- 29.0 --- CONTOURS - EXISTING
- - - 29.0 - - - CONTOURS - PROPOSED
- NEW ROAD PAVEMENT
- DRIVEWAY RECONSTRUCTION
- PROPOSED GUARD RAIL
- PROPOSED STORMWATER
- EXISTING STORMWATER
- EXISTING FENCE LINE
- EXISTING OVER HEAD POWER
- EXISTING TELECOM
- △ 2180CR01 CONTROL MARK (SURVEY STATION)
- EXISTING TREE
- TREE TO BE REMOVED
- TREE TO BE RETAINED AS PER REF



ROAD No. 4 RRJ225 Inv 136.663  
Ch 0.000 to Ch 16.534  
H=1:100 V=1:100



ROAD No. 4 RRJ300 Inv 135.886  
Ch 0.000 to Ch 23.144  
H=1:100 V=1:100



REV	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
	REVISION DETAILS	ISSUED BY	DATE

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AL Civil Design  
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GILLRESTON HEIGHTS NSW 2321  
0466 253 917

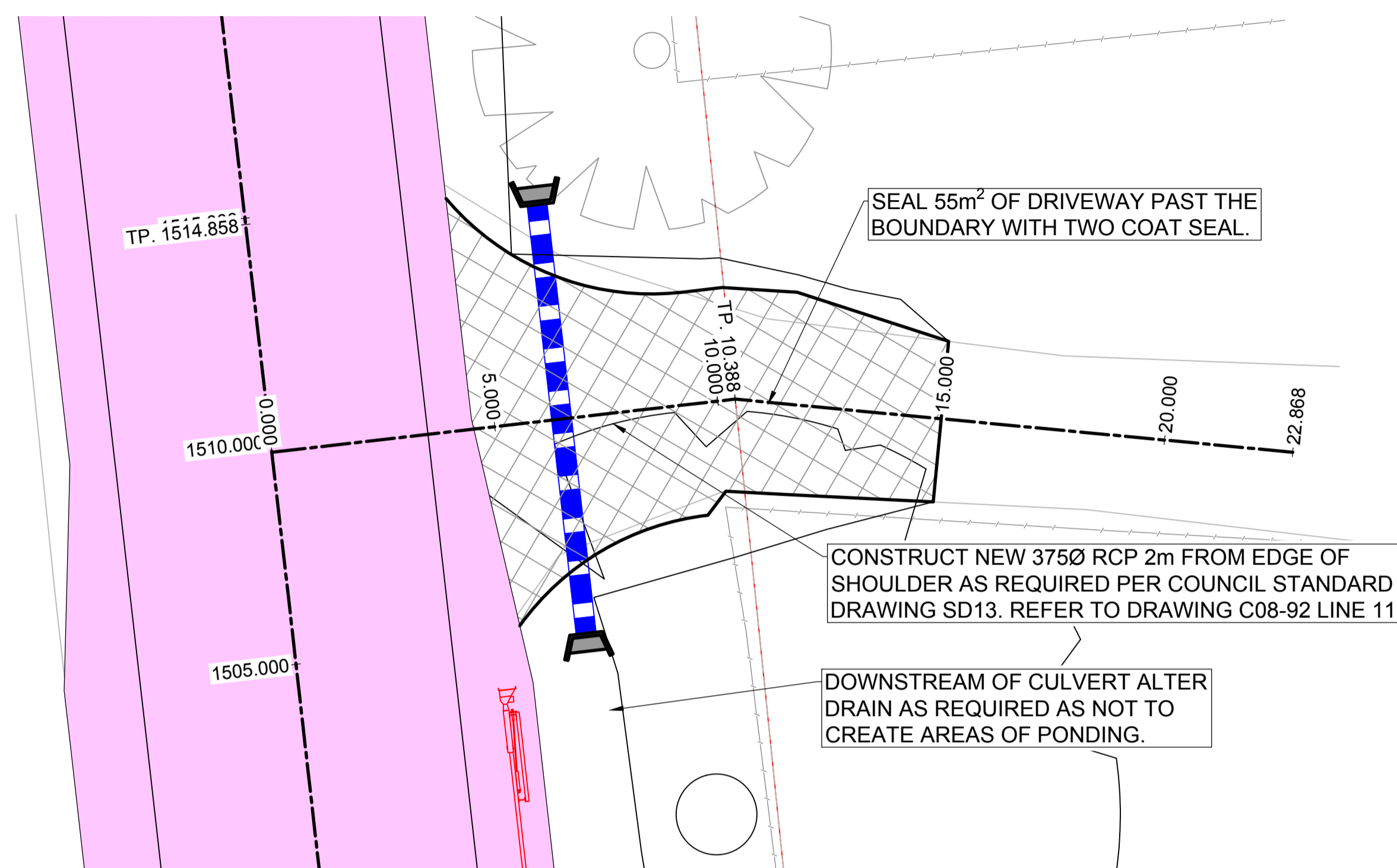
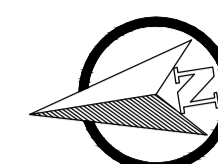
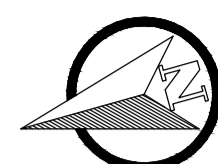
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SURVEY:	DELFS LASCELLES
DESIGN:	M.M
DRAWN:	M.M
CHECKED:	M.M
DATE:	11.08.2023
APPROVED:	M.M

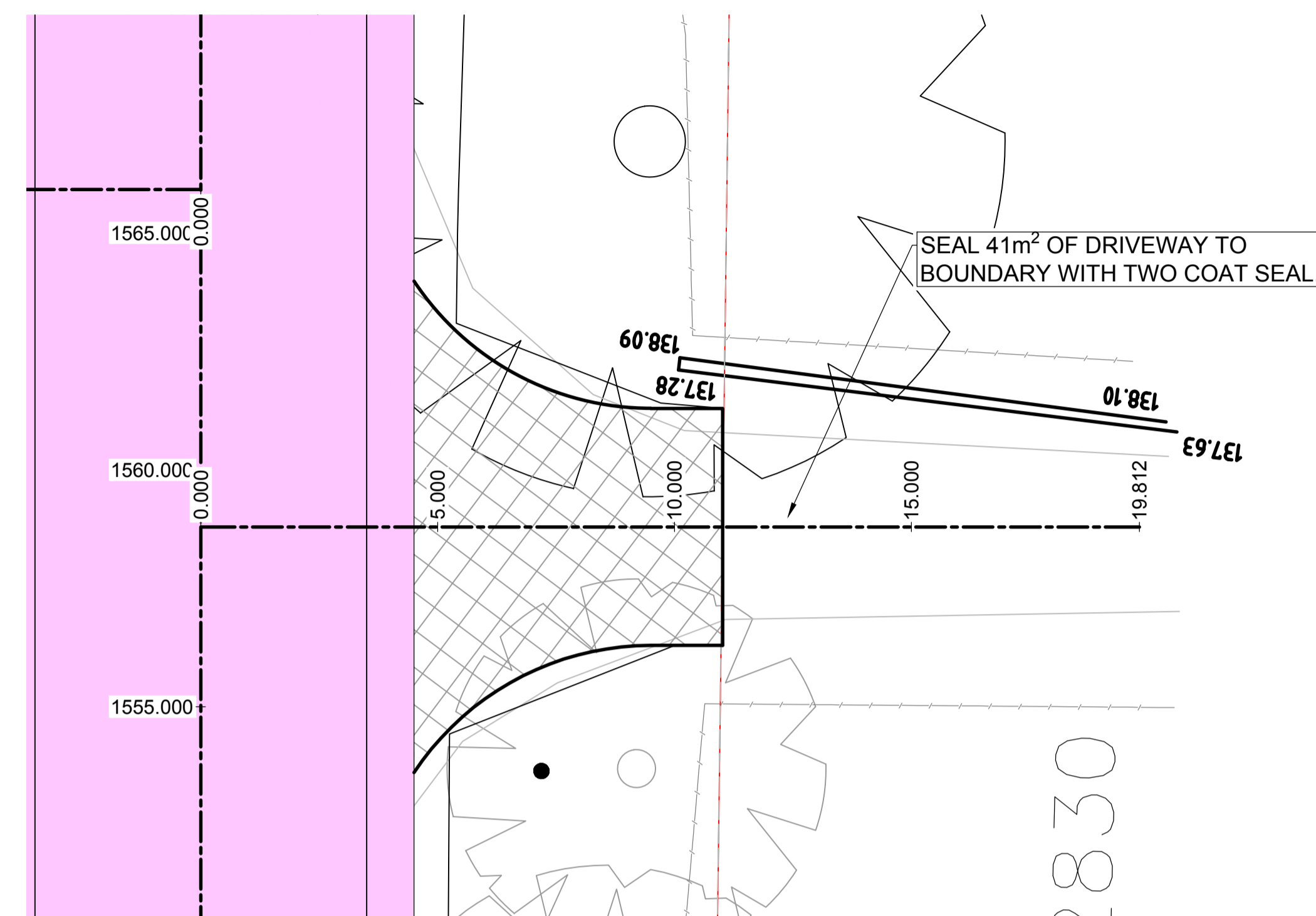
CLIENT	CESSNOCK CITY COUNCIL	
PLAN:	LONGITUDINAL SECTION	CROSS SECTION
1:100 (A1)	HORIZ. 1:100 VERT. 1:100	HORIZ. N/A VERT. N/A

PROJECT	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWING TITLE	DRIVEWAY 9 & 10 PLAN & LONGITUDINAL SECTION
SHEET	98 OF 116 SHEETS

PROJECT No	AL22077	REVISION	1
DWG No	C08-98	<b>CONSTRUCTION</b>	
2 1 0 2 4 6		1:100 (A1)	



**DRIVEWAY PLAN**  
SCALE 1:100



**DRIVEWAY PLAN**  
SCALE 1:100

**LEGEND**

- 29.0 CONTOURS - EXISTING
- 29.0 CONTOURS - PROPOSED
- NEW ROAD PAVEMENT
- DRIVEWAY RECONSTRUCTION
- PROPOSED GUARD RAIL
- PROPOSED STORMWATER
- EXISTING STORMWATER
- EXISTING FENCE LINE
- EXISTING OVER HEAD POWER
- EXISTING TELECOM
- Δ12180CR01 CONTROL MARK (SURVEY STATION)
- EXISTING TREE
- TREE TO BE REMOVED
- TREE TO BE RETAINED AS PER REF

ROAD No. Ch 0.000 to Ch 22.868  
H=1:100 V=1:100

DEPTH	DESIGN	EXISTING	CHAINAGE
+0.345	137.386	137.04	0.000
+0.330	137.281	136.95	3.500
+0.332	137.251	136.92	4.500
+0.334	137.236	136.90	5.000
+0.337	137.203	136.87	6.103
+0.281	137.130	136.85	8.103
+0.181	137.037	136.86	10.000
+0.174	137.031	136.86	10.103
+0.156	137.015	136.86	10.388
+0.107	136.970	136.86	11.200
+0.024	136.895	136.87	13.100
+0.004	136.880	136.88	14.399
+0.000	136.883	136.88	15.000
		136.93	20.000
		136.92	22.868

ROAD No. Ch 0.000 to Ch 19.812  
H=1:100 V=1:100

DEPTH	DESIGN	EXISTING	CHAINAGE
+0.366	137.468	137.10	0.000
+0.249	137.380	137.13	3.500
+0.213	137.355	137.14	4.500
+0.190	137.342	137.15	5.000
+0.103	137.282	137.19	7.014
+0.039	137.265	137.23	9.014
+0.037	137.265	137.23	9.156
+0.016	137.269	137.25	10.000
+0.000	137.285	137.28	11.014
		137.42	15.000
		137.59	19.812



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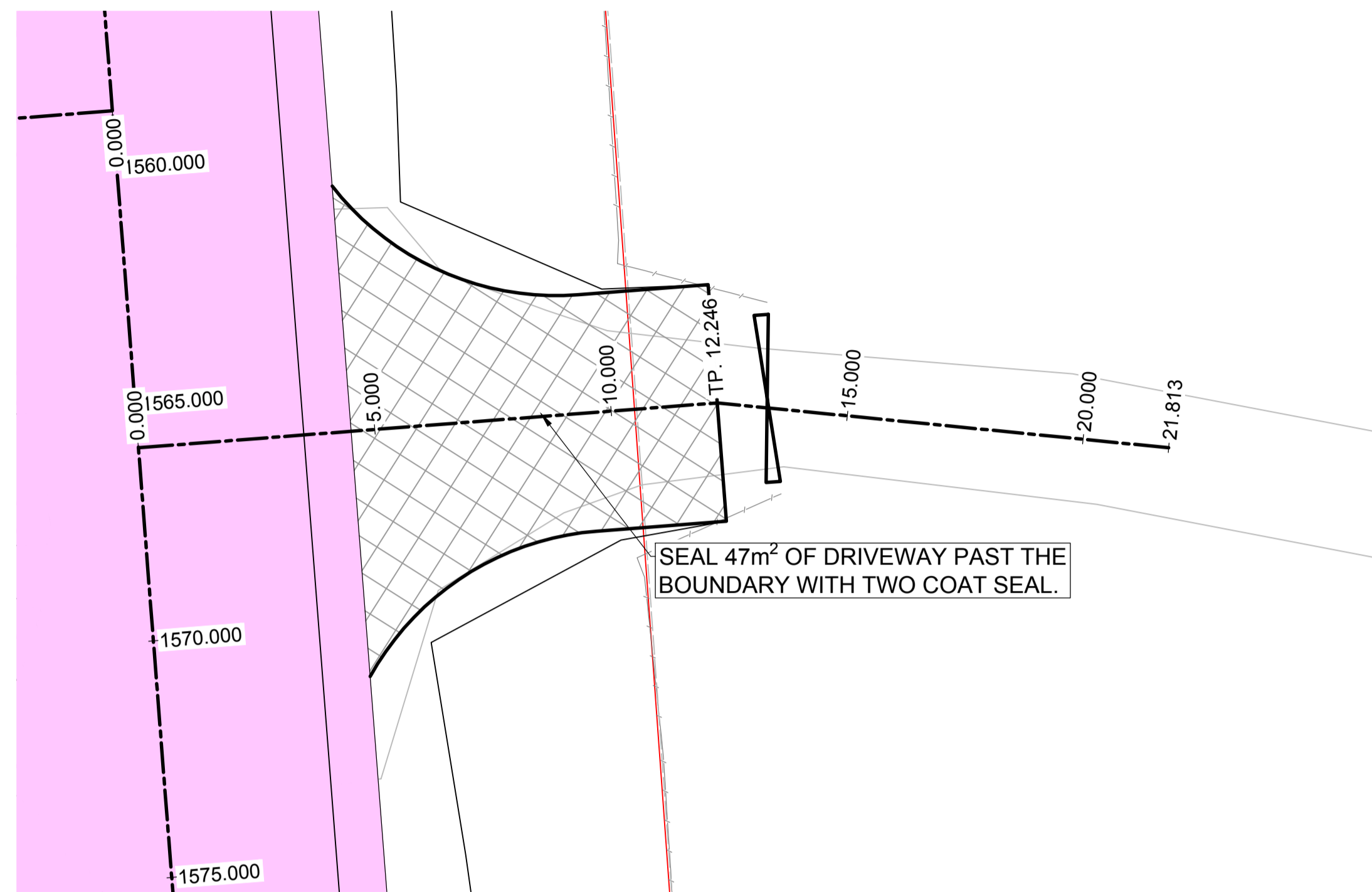
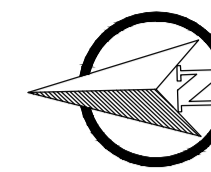
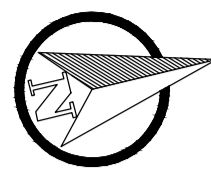
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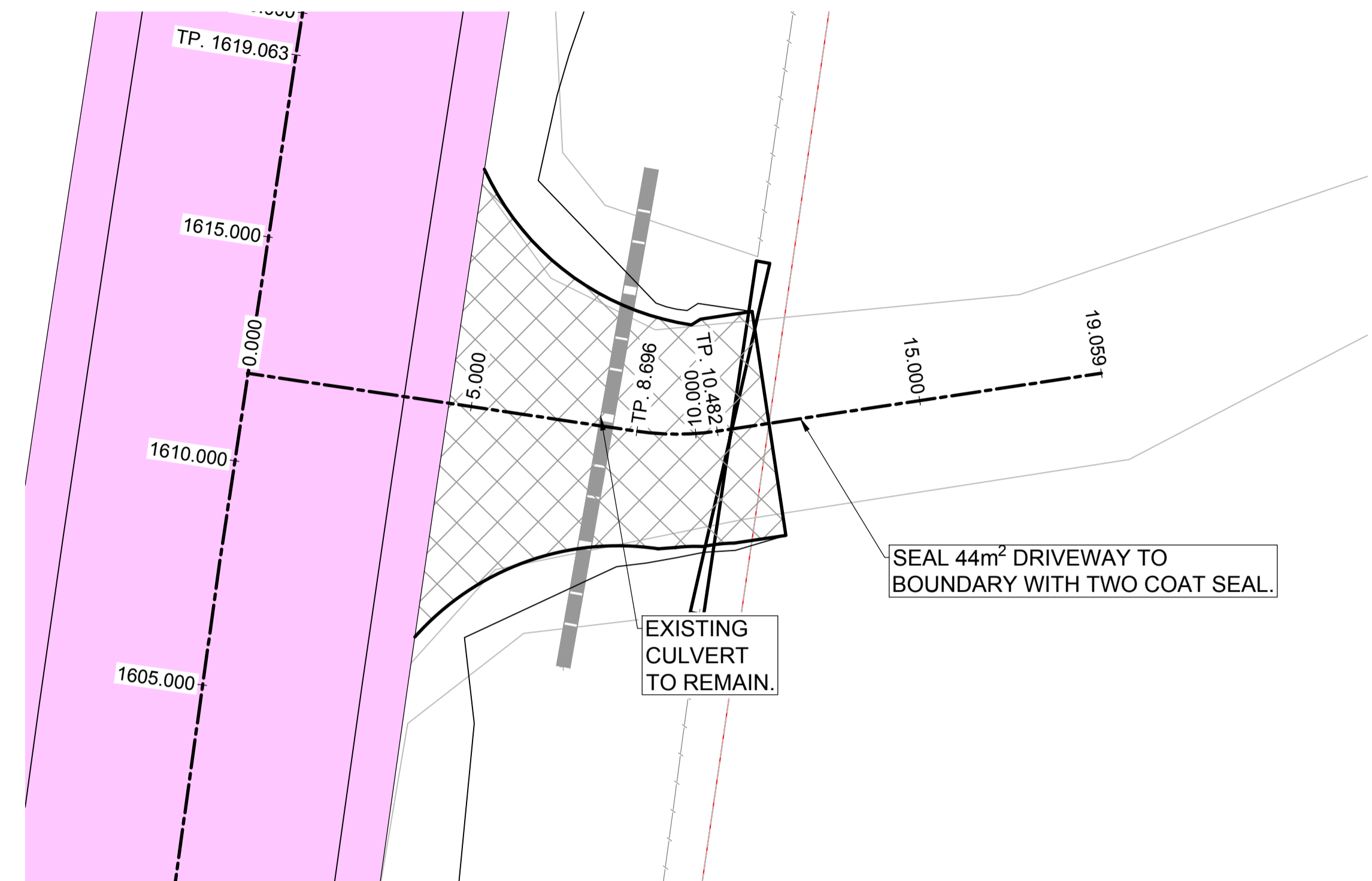
SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M	PROJECT:	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWN:	M.M	DRAWING TITLE:	DRIVEWAY 11 & 12 PLAN & LONGITUDINAL SECTION
CHECKED:	M.M	SHEET:	99 OF 116 SHEETS
DATE:	11.08.2023	PLAN:	1:100 (A1)
APPROVED:	M.M	LONGITUDINAL SECTION:	HORIZ. 1:100 VERT. 1:100
		CROSS SECTION:	HORIZ. N/A VERT. N/A

PROJECT No:	AL22077	REVISION:	1
DWG No:	C08-99		
<b>CONSTRUCTION</b>			

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23



DRIVEWAY PLAN  
SCALE 1:100



DRIVEWAY PLAN  
SCALE 1:100

LEGEND

- 29.0 CONTOURS - EXISTING
- 29.0 CONTOURS - PROPOSED
- NEW ROAD PAVEMENT
- DRIVEWAY RECONSTRUCTION
- PROPOSED GUARD RAIL
- PROPOSED STORMWATER
- EXISTING STORMWATER
- EXISTING FENCE LINE
- EXISTING OVER HEAD POWER
- EXISTING TELECOM
- Δ2180CR01 CONTROL MARK (SURVEY STATION)
- EXISTING TREE
- TREE TO BE REMOVED
- TREE TO BE RETAINED AS PER REF

DEPTH	DESIGN	EXISTING	CHAINAGE
+0.356	137.461	137.11	0.000
+0.319	137.321	137.00	3.500
+0.302	137.281	136.99	4.500
+0.289	137.258	136.97	5.000
+0.243	137.177	136.93	6.300
+0.145	137.010	136.87	8.100
+0.131	136.994	136.86	8.246
+0.027	136.833	136.81	10.000
+0.021	136.815	136.79	10.246
+0.000	136.722	136.72	12.246
		136.63	15.000
		136.40	20.000
		136.32	21.813

ROAD No.  
Ch 0.000 to Ch 21.813  
H=1:100 V=1:100

DEPTH	DESIGN	EXISTING	CHAINAGE
+0.372	137.293	136.92	0.000
+0.269	137.205	136.94	3.500
+0.232	137.180	136.95	4.500
+0.214	137.166	136.95	5.000
+0.195	137.155	136.96	5.500
+0.106	137.111	137.01	7.271
+0.045	137.097	137.05	8.356
+0.031	137.088	137.07	8.671
+0.031	137.099	137.07	8.696
+0.001	137.128	137.13	10.000
+0.001	137.131	137.13	10.071
+0.000	137.147	137.15	10.482
+0.000	137.193	137.19	11.635
		137.32	15.000
		137.49	19.059

ROAD No.  
Ch 0.000 to Ch 19.059  
H=1:100 V=1:100



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5 Yew Street  
GILLIESTON HEIGHTS NSW 2321  
0466 253 917

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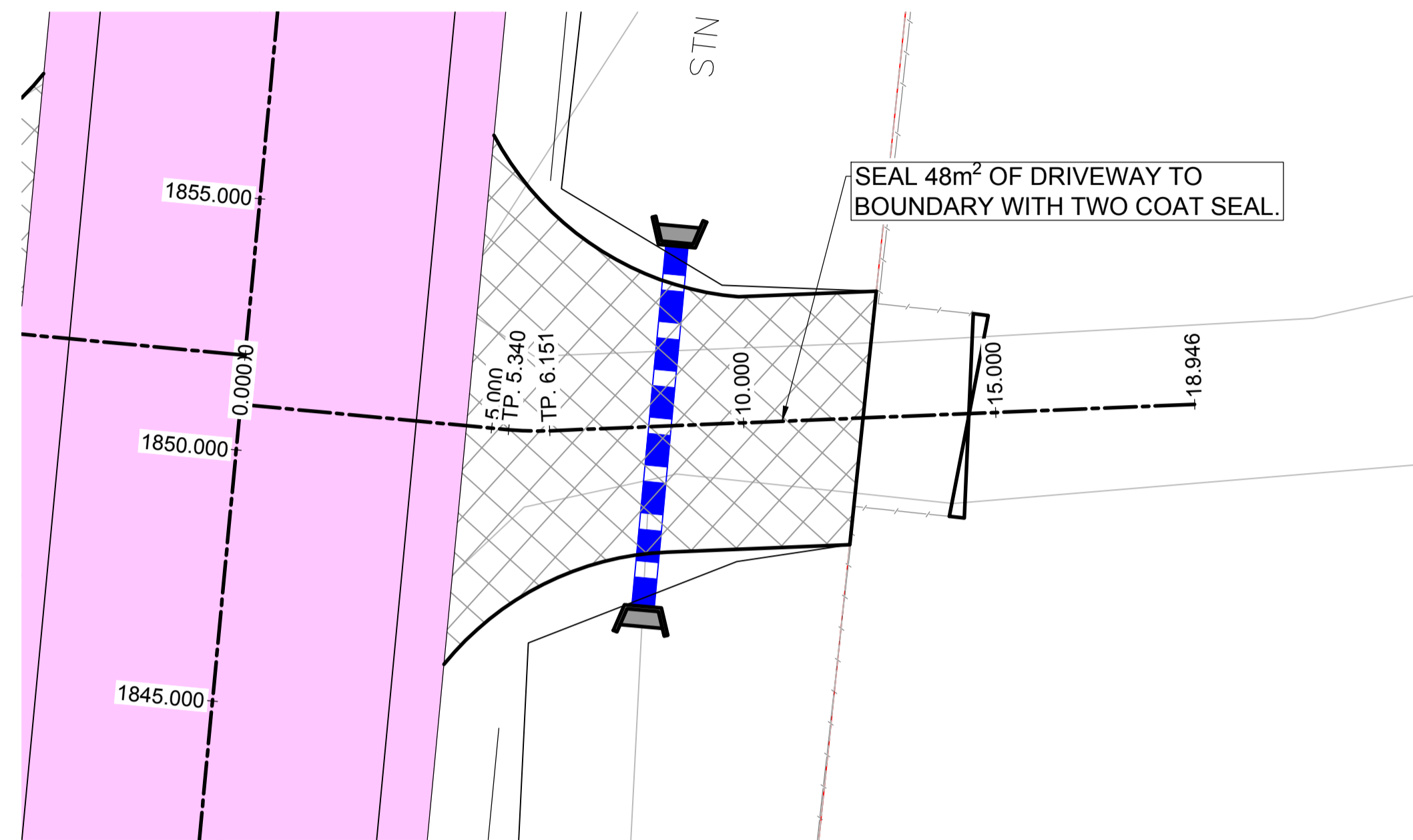
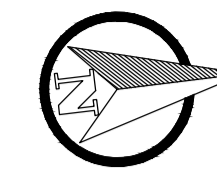
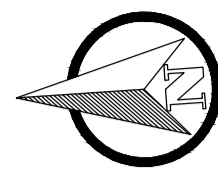
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SURVEY:	DELFS LASCELLES
DESIGN:	M.M
DRAWN:	M.M
CHECKED:	M.M
DATE:	11.08.2023
APPROVED:	M.M

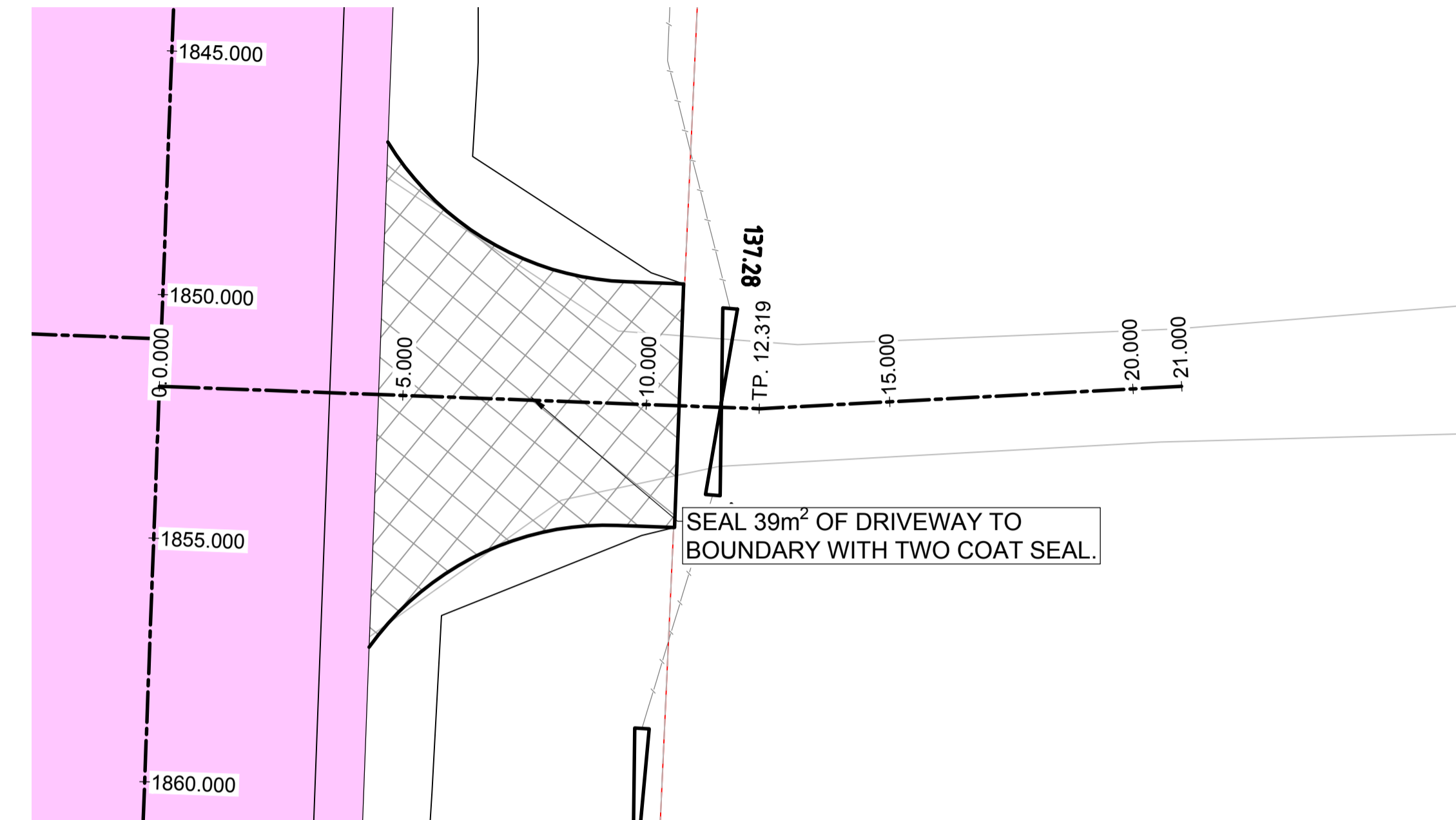
CLIENT	CESSNOCK CITY COUNCIL	
PLAN:	LONGITUDINAL SECTION	CROSS SECTION
1:100 (A1)	HORIZ. 1:100	HORIZ. N/A
	VERT. 1:100	VERT. N/A

PROJECT	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG	
DRAWING TITLE	DRIVEWAY 13 & 14 PLAN & LONGITUDINAL SECTION	
SHEET	100 OF 116 SHEETS	

PROJECT No	AL22077	REVISION	1
DWG No	C08-100		
CONSTRUCTION			



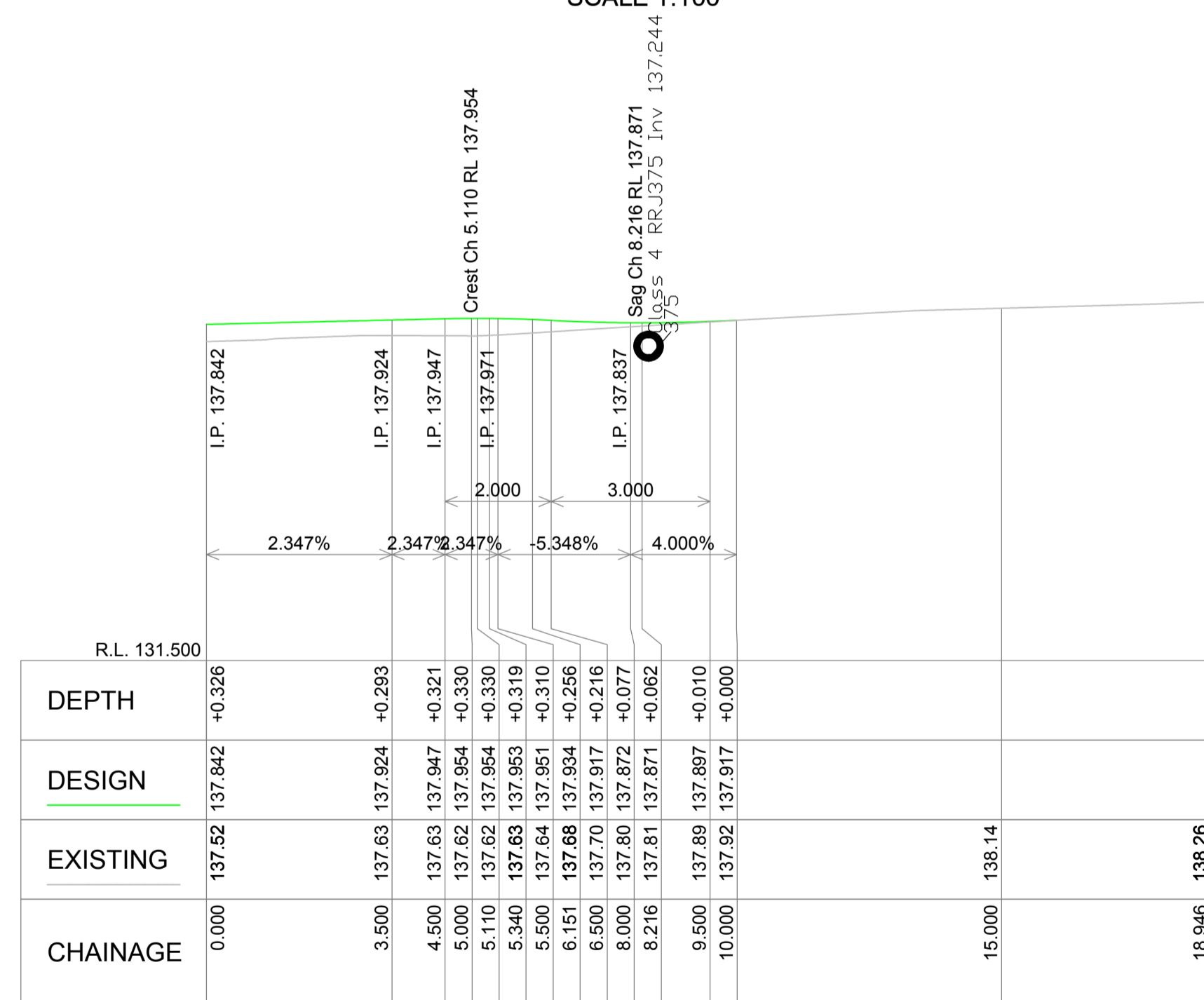
DRIVEWAY PLAN  
SCALE 1:100



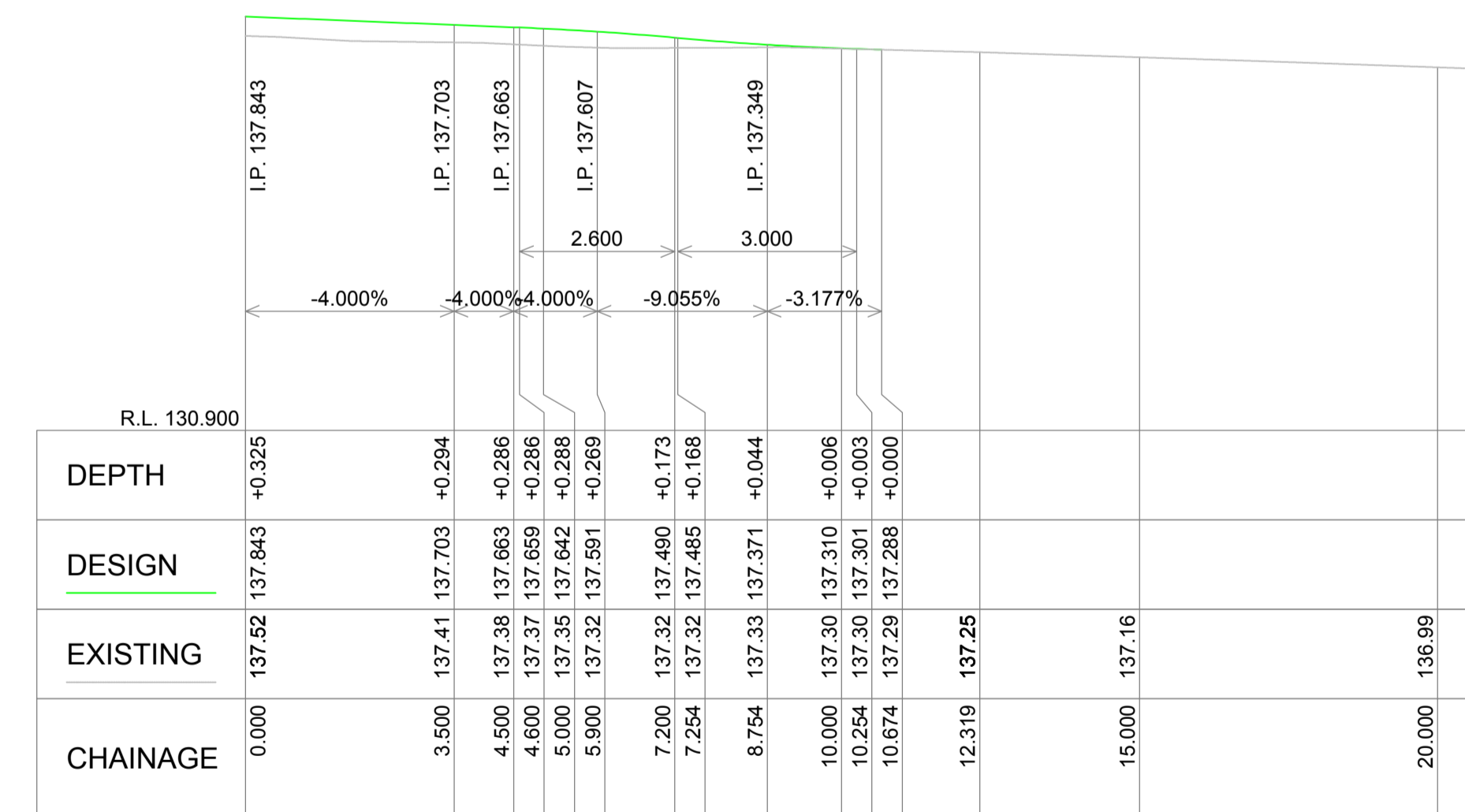
DRIVEWAY PLAN  
SCALE 1:100

LEGEND

- 29.0 --- CONTOURS - EXISTING
- 29.0 --- CONTOURS - PROPOSED
- NEW ROAD PAVEMENT
- DRIVEWAY RECONSTRUCTION
- PROPOSED GUARD RAIL
- PROPOSED STORMWATER
- EXISTING STORMWATER
- EXISTING FENCE LINE
- EXISTING OVER HEAD POWER
- EXISTING TELECOM
- △2180CR01 CONTROL MARK (SURVEY STATION)
- EXISTING TREE
- TREE TO BE REMOVED
- TREE TO BE RETAINED AS PER REF



ROAD No.  
Ch 0.000 to Ch 18.946  
H=1:100 V=1:100



ROAD No.  
Ch 0.000 to Ch 21.000  
H=1:100 V=1:100

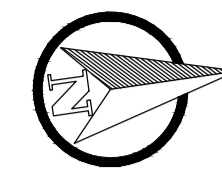
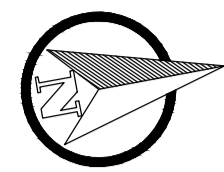
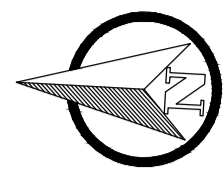


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SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M	PROJECT:	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWN:	M.M	DRAWING TITLE:	DRIVEWAY 15 & 16 PLAN & LONGITUDINAL SECTION
CHECKED:	M.M	DATE:	11.08.2023
APPROVED:	M.M	PLAN:	1:100 (A1)
		LONGITUDINAL SECTION:	HORIZ. 1:100 VERT. 1:100
		CROSS SECTION:	HORIZ. N/A VERT. N/A

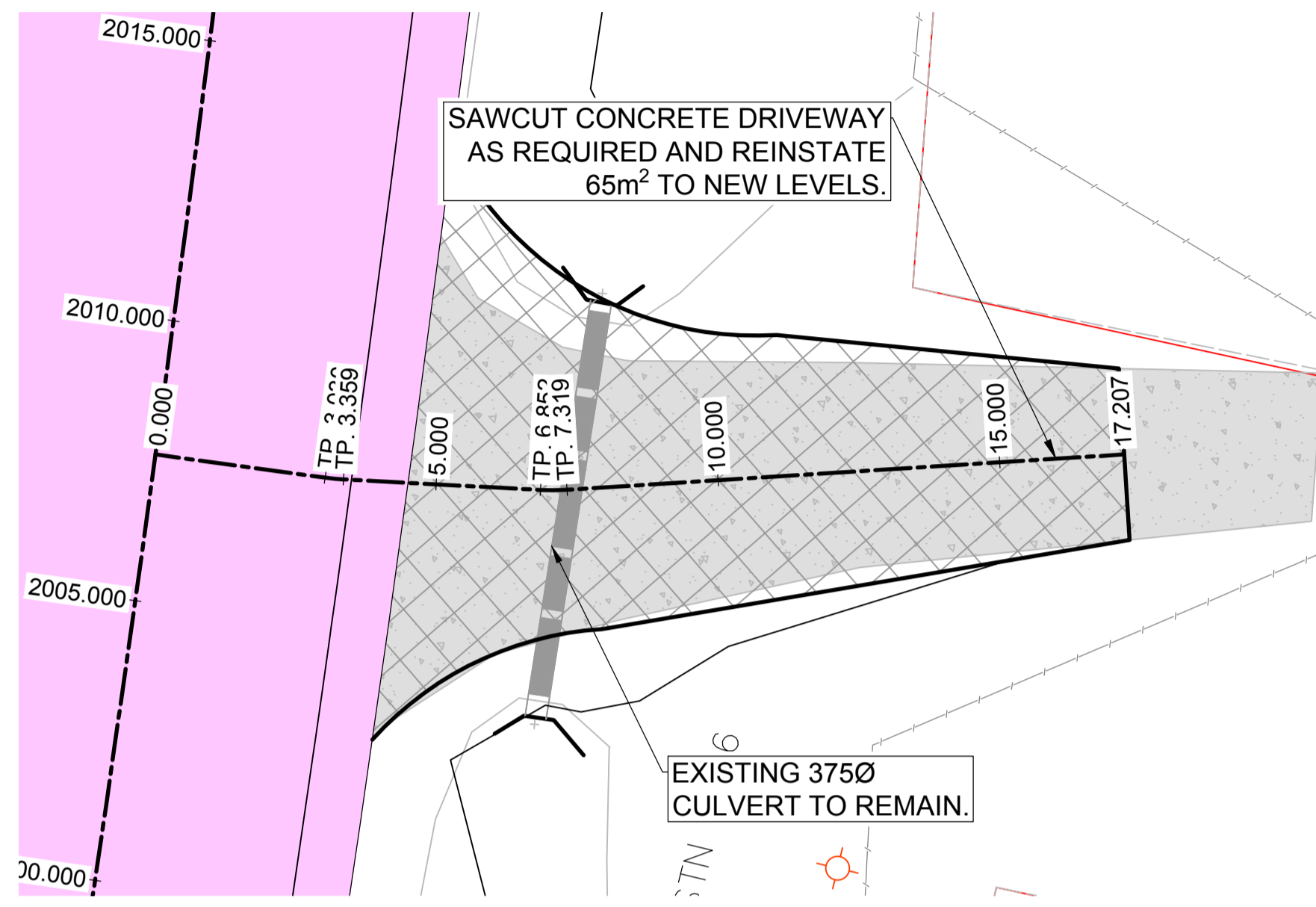
PROJECT No:	AL22077	REVISION:	1
DWG No:	C08-101		
<p style="text-align: center; font-weight: bold; font-size: 1.2em;">CONSTRUCTION</p>			
SHEET 101 OF 116 SHEETS			

1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE

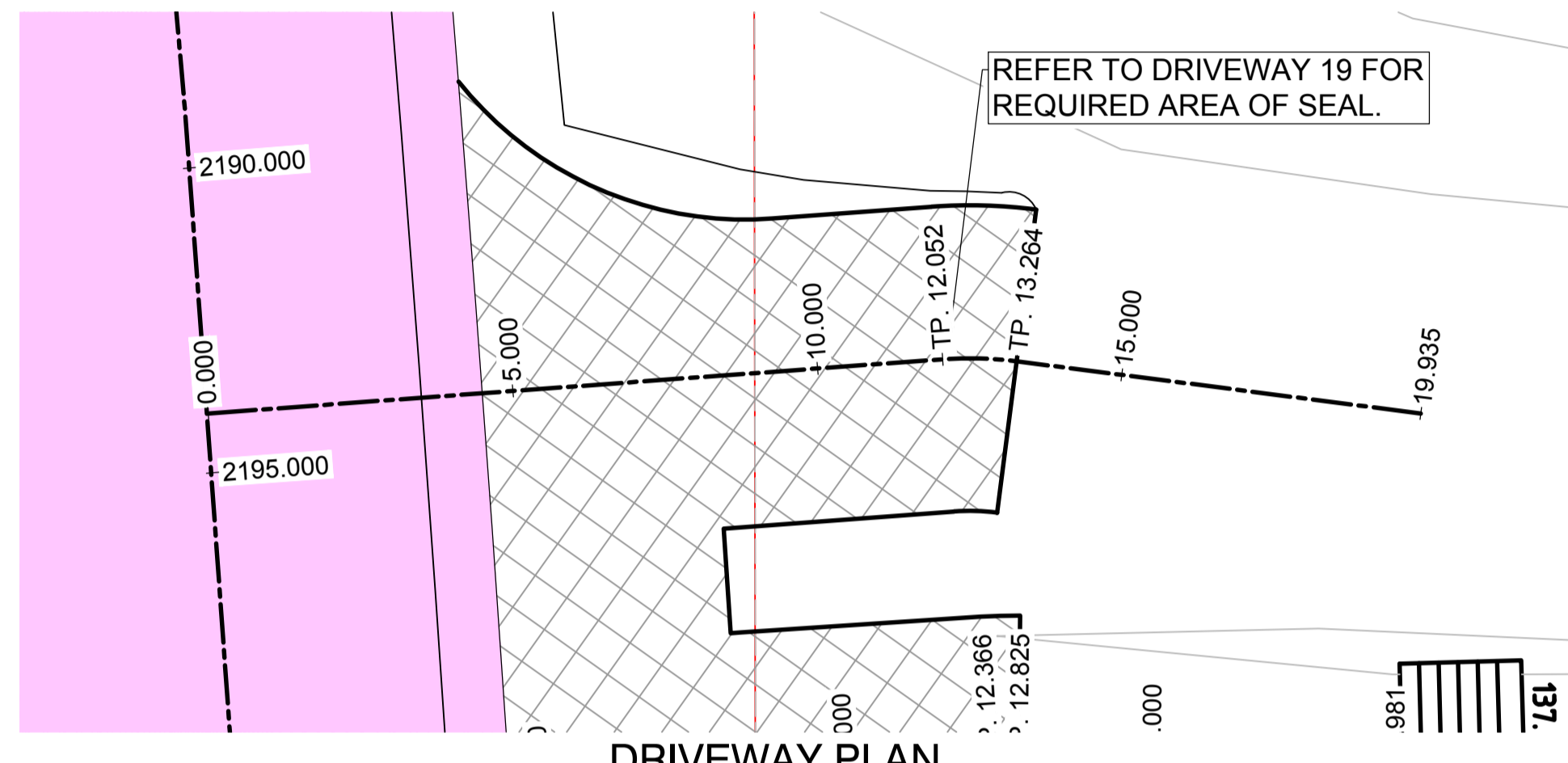


**LEGEND**

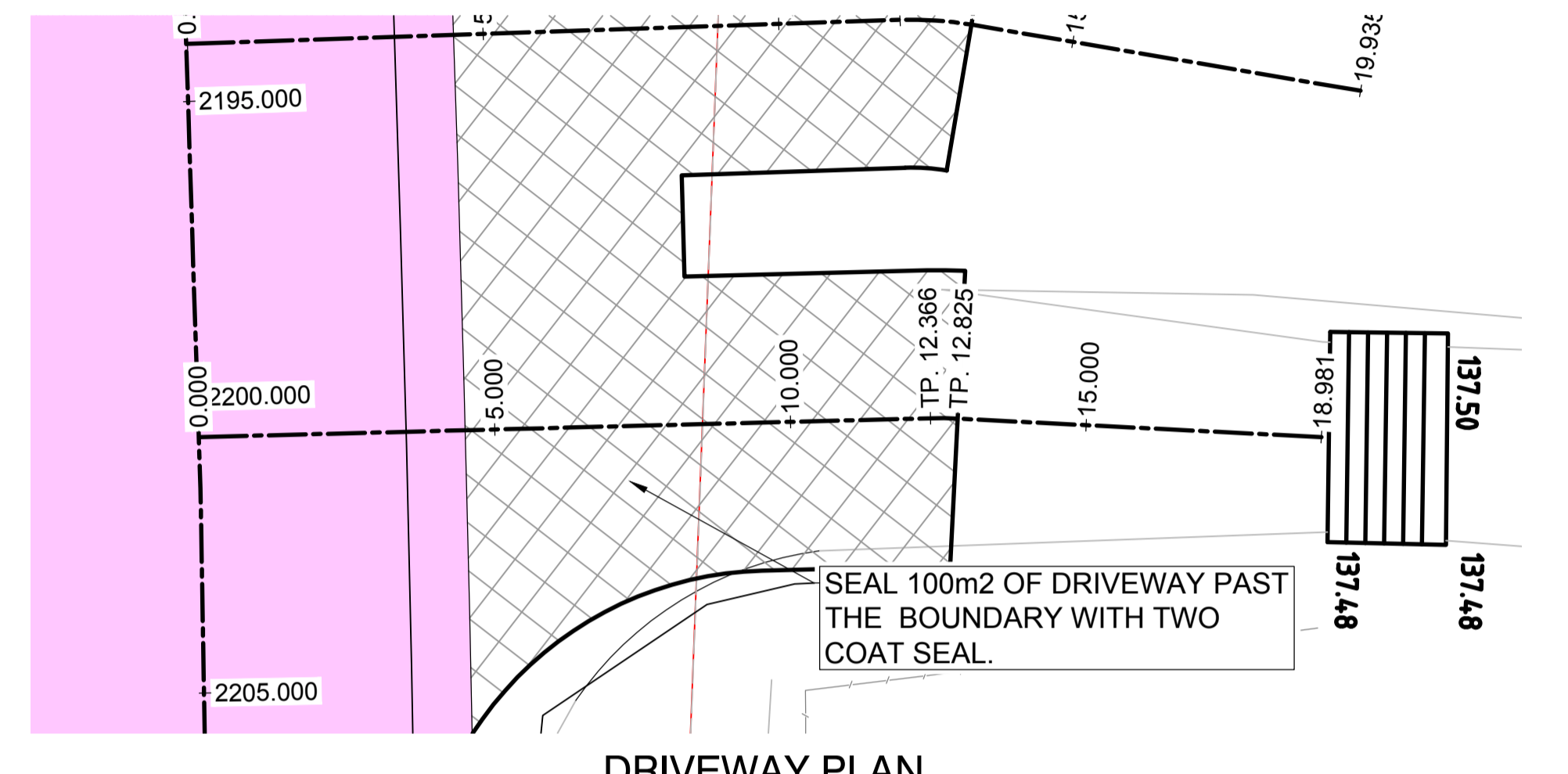
- 29.0 CONTOURS - EXISTING
- 29.0 CONTOURS - PROPOSED
- NEW ROAD PAVEMENT
- DRIVEWAY RECONSTRUCTION
- PROPOSED GUARD RAIL
- PROPOSED STORMWATER
- EXISTING STORMWATER
- EXISTING FENCE LINE
- EXISTING OVER HEAD POWER
- EXISTING TELECOM
- 2180CR01 CONTROL MARK (SURVEY STATION)
- EXISTING TREE
- TREE TO BE REMOVED
- TREE TO BE RETAINED AS PER REF



**DRIVEWAY PLAN**  
SCALE 1:100



**DRIVEWAY PLAN**  
SCALE 1:100



**DRIVEWAY PLAN**  
SCALE 1:100

DEPTH	DESIGN	EXISTING	CHAINAGE
			0.000
			3.030
			3.359
			3.501
			4.504
			5.000
			6.482
			6.504
			6.852
			7.319
			8.504
			10.000
			12.000
			14.000
			14.583
			15.000
			16.000
			17.207
			17.483
			19.935
			19.935

**ROAD No.**  
Ch 0.000 to Ch 17.207  
H=1:100 V=1:100

DEPTH	DESIGN	EXISTING	CHAINAGE
			0.000
			3.500
			4.500
			5.000
			5.784
			6.500
			8.500
			9.250
			10.000
			11.250
			11.686
			12.052
			13.250
			13.264
			15.000
			19.935
			19.935

**ROAD No.**  
Ch 0.000 to Ch 19.935  
H=1:100 V=1:100

DEPTH	DESIGN	EXISTING	CHAINAGE
			0.000
			3.500
			4.500
			5.000
			6.133
			6.500
			8.500
			10.000
			10.017
			11.500
			12.366
			12.825
			15.000
			17.483
			18.981
			19.935

**ROAD No.**  
Ch 0.000 to Ch 18.981  
H=1:100 V=1:100



AL Civil Design  
5 Yew Street  
GILLIESTON HEIGHTS NSW 2321  
0466 253 917

**DISCLAIMER**

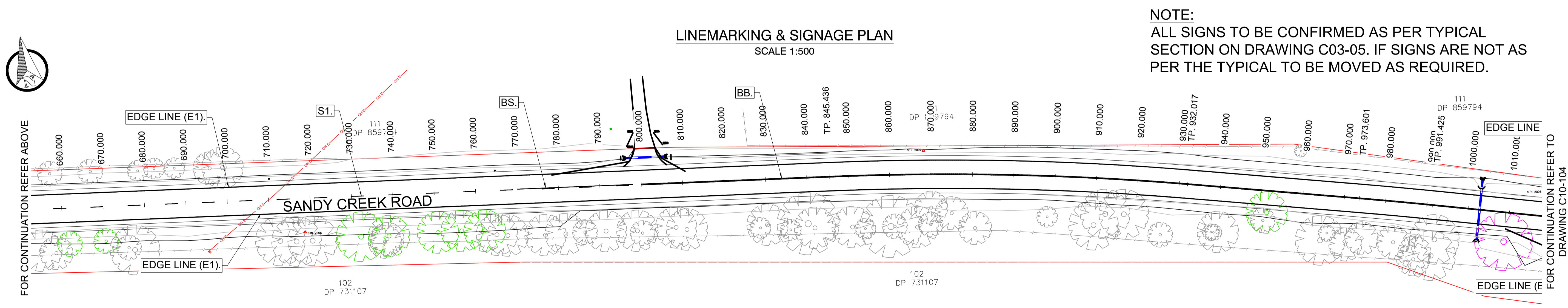
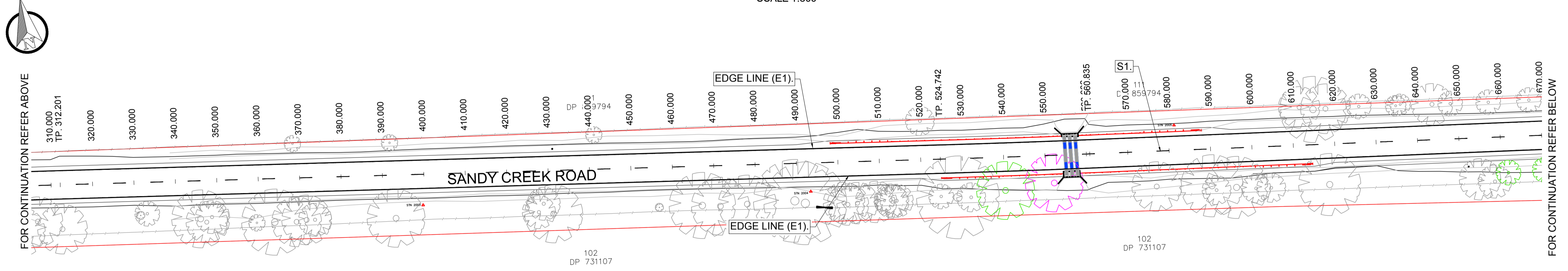
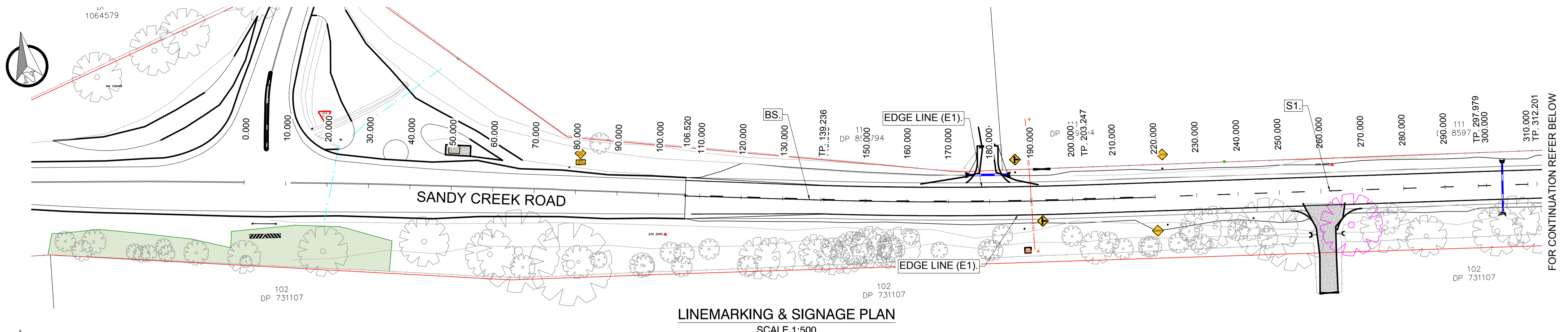
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SURVEY:	DELFS LASCELLES
DESIGN:	M.M
DRAWN:	M.M
CHECKED:	M.M
DATE:	11.08.2023
APPROVED:	M.M

CLIENT	CESSNOCK CITY COUNCIL	
PROJECT	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG	
DRAWING TITLE	DRIVEWAY 17-19 PLAN & LONGITUDINAL SECTION	
PLAN:	LONGITUDINAL SECTION	CROSS SECTION
1:100 (A1)	HORIZ. 1:100	HORIZ. N/A
	VERT. 1:100	VERT. N/A

PROJECT No	AL22077
DWG No	C08-102
<b>CONSTRUCTION</b>	
SHEET 102 OF 116 SHEETS	

REVISION	1
2 1 0 2 4 6 1:100 (A1)	



**NOTE:**  
 ALL SIGNS TO BE CONFIRMED AS PER TYPICAL SECTION ON DRAWING C03-05. IF SIGNS ARE NOT AS PER THE TYPICAL TO BE MOVED AS REQUIRED.



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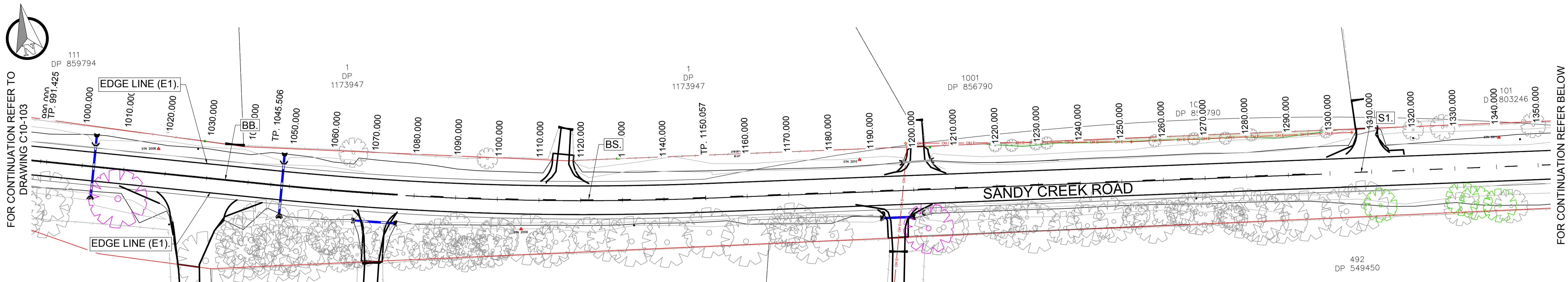
SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL	
DESIGN:	M.M	PROJECT:	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG	
DRAWN:	M.M	DRAWING TITLE:	LINEMARKING & SIGNAGE PLAN SHEET 01 OF 03	
CHECKED:	M.M	DATE:	11.08.2023	APPROVED:
DATE:	11.08.2023	PLAN:	1:500 (A1)	CROSS SECTION:
APPROVED:	M.M	HORIZ.:	1:500	VERT.:
		VERT.:	1:100	N/A

PROJECT No:	AL22077	REVISION:	1
DWG No:	C10-103		
SHEET 103 OF 116 SHEETS			

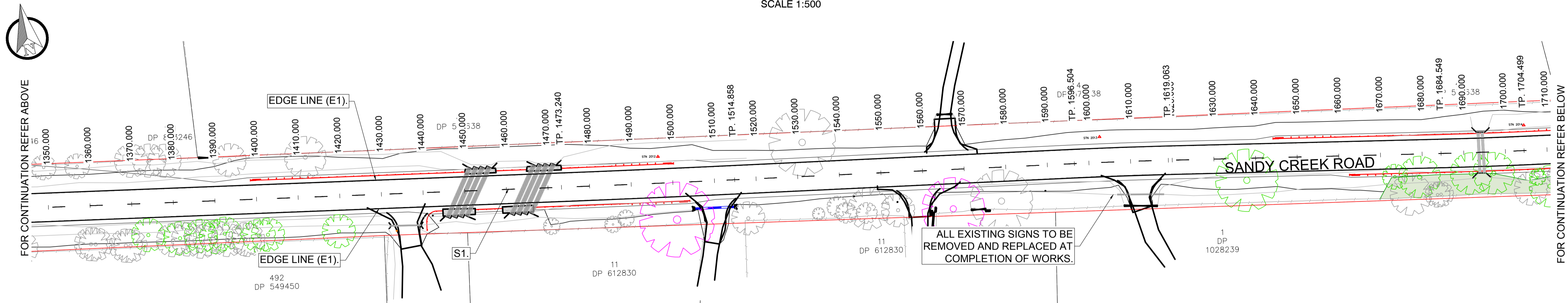
**CONSTRUCTION**

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23

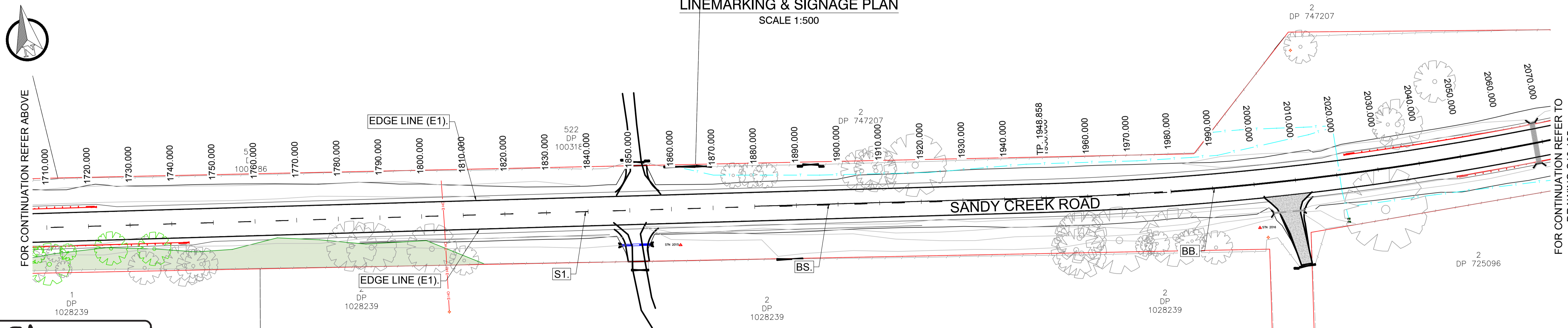




LINEMARKING & SIGNAGE PLAN  
SCALE 1:500



LINEMARKING & SIGNAGE PLAN  
SCALE 1:500



LINEMARKING & SIGNAGE PLAN  
SCALE 1:500



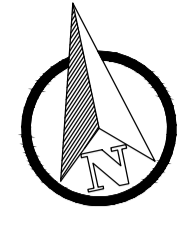
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AL Civil Design  
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GILLJESTON HEIGHTS NSW 2321  
0466 253 917

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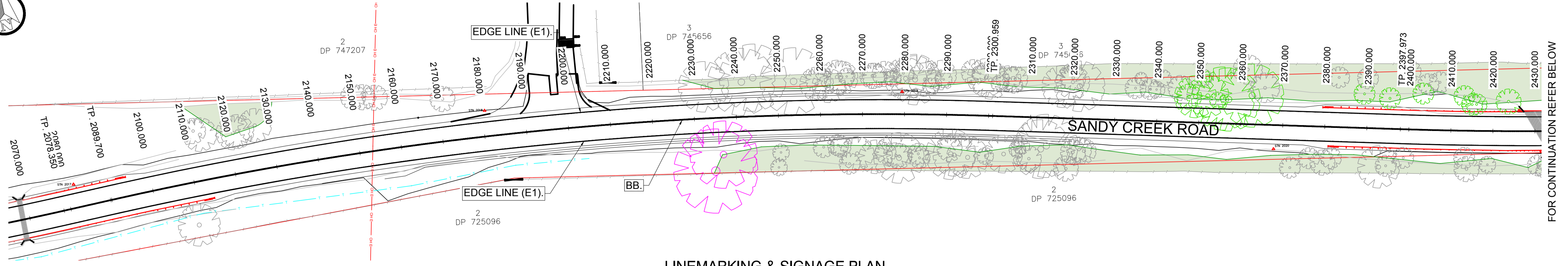
SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M	PROJECT:	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWN:	M.M	DRAWING TITLE:	LINEMARKING & SIGNAGE PLAN SHEET 02 OF 03
CHECKED:	M.M	DATE:	11.08.2023
APPROVED:	M.M	PLAN:	1:500 (A1)
		LONGITUDINAL SECTION:	HORIZ. 1:500 VERT. 1:100
		CROSS SECTION:	HORIZ. N/A VERT. N/A

PROJECT No:	AL22077	REVISION:	1
DWG No:	C10-104		
<b>CONSTRUCTION</b>			
SHEET 104 OF 116 SHEETS			

PROJECT No		AL22077	REVISION	1
DWG No		C10-104		

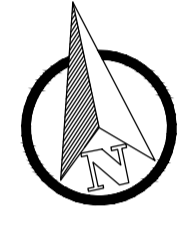


FOR CONTINUATION REFER TO DRAWING C10-104

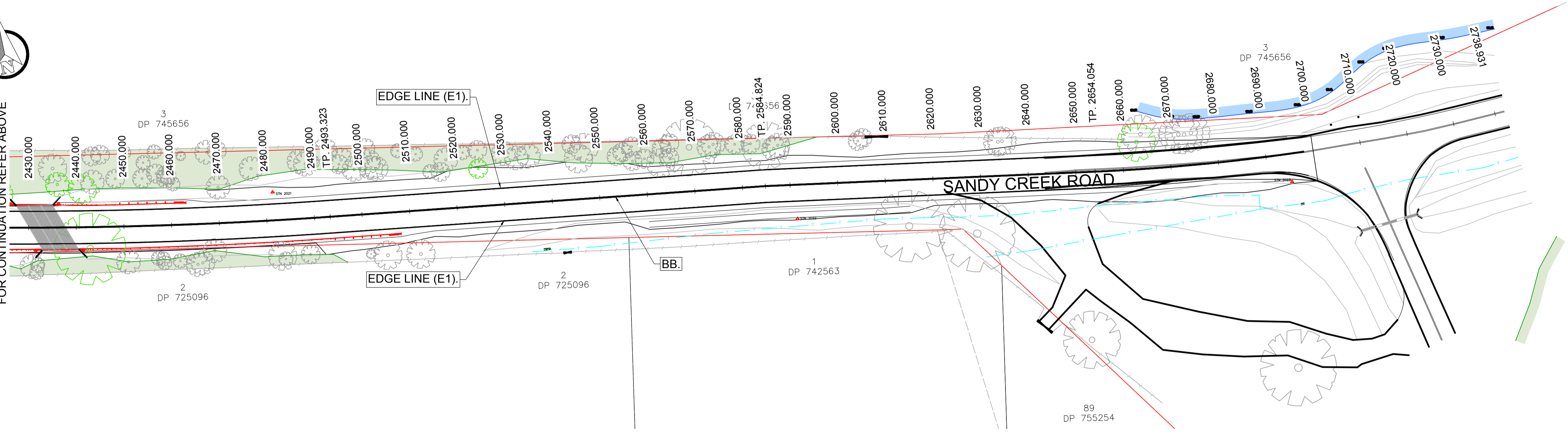


LINEMARKING & SIGNAGE PLAN  
SCALE 1:500

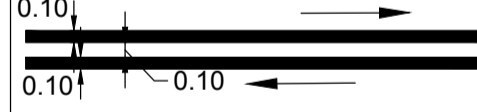

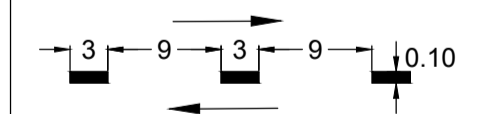
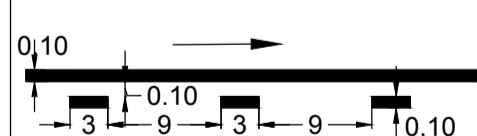
FOR CONTINUATION REFER BELOW



FOR CONTINUATION REFER ABOVE



LINEMARKING & SIGNAGE PLAN  
SCALE 1:500

LINE MARKING			
LINE TYPE	USE	DIMENSIONS (M)	COLOUR
BB	SEPARATION LINE IF RESTRICTED SIGHT DISTANCE FOR BOTH DIRECTIONS		WHITE
E1	LEFT HAND EDGE LINE ON GENERAL PURPOSE ROAD		WHITE
S1	DIVIDING (SEPARATION) LINE ON 2 LANE ROAD		WHITE
BS	REPLACES SEPARATION LINE IF RESTRICTED SIGHT DISTANCE IN ONE DIRECTION OR CLIMBING LANE		WHITE



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6. Any service line unless otherwise noted has been plotted from the records of relevant authorities where available. Prior to any demolition, excavation or construction on the site, the relevant authority should be contacted for possible location of further underground services and detailed locations of all service.

SURVEY: DELFS LASCELLES  
 DESIGN: M.M  
 DRAWN: M.M  
 CHECKED: M.M  
 DATE: 11.08.2023  
 APPROVED: M.M

CLIENT  
**CESSNOCK CITY COUNCIL**

PLAN:  
 1:500 (A1)

LONGITUDINAL SECTION  
 HORIZ. 1:500  
 VERT. 1:100

CROSS SECTION  
 HORIZ. N/A  
 VERT. N/A

PROJECT  
**LOCAL ROAD RENEWAL  
 STAGE 1 & STAGE 2  
 SANDY CREEK ROAD, QUORROBOLONG**

DRAWING TITLE  
**LINEMARKING & SIGNAGE PLAN SHEET 03 OF 03**

**SHEET 105 OF 116 SHEETS**

PROJECT No  
**AL22077**

DWG No  
**C10-105**

REVISION  
**1**

**CONSTRUCTION**

10 5 0 10 20 30  
 1:500 (A1)

REV	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE

SETOUT SANDY CREEK ROAD (CL)			
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL
110.000	347031.830	6356124.782	141.202
120.000	347041.588	6356122.596	141.013
130.000	347051.346	6356120.411	140.824
139.236	347060.359	6356118.392	140.650
140.000	347061.105	6356118.226	140.636
145.000	347065.987	6356117.149	140.543
150.000	347070.875	6356116.096	140.452
155.000	347075.769	6356115.068	140.363
160.000	347080.667	6356114.065	140.275
165.000	347085.570	6356113.086	140.188
170.000	347090.478	6356112.132	140.104
175.000	347095.391	6356111.202	140.020
180.000	347100.308	6356110.296	139.939
185.000	347105.230	6356109.416	139.859
190.000	347110.156	6356108.560	139.780
195.000	347115.087	6356107.728	139.703
200.000	347120.021	6356106.921	139.628
203.247	347123.228	6356106.411	139.580
210.000	347129.898	6356105.359	139.482
220.000	347139.776	6356103.803	139.341
230.000	347149.654	6356102.246	139.200
240.000	347159.532	6356100.689	139.059
250.000	347169.411	6356099.132	138.928
260.000	347179.289	6356097.575	138.808
270.000	347189.167	6356096.019	138.702
280.000	347199.045	6356094.462	138.608
290.000	347208.923	6356092.905	138.515
297.979	347216.805	6356091.663	138.430
300.000	347218.801	6356091.347	138.407
305.000	347223.739	6356090.562	138.345
310.000	347228.675	6356089.768	138.279
312.201	347230.848	6356089.415	138.248
320.000	347238.546	6356088.165	138.132
330.000	347248.417	6356086.561	137.968
340.000	347258.287	6356084.957	137.801
350.000	347268.158	6356083.354	137.634
360.000	347278.028	6356081.750	137.476
370.000	347287.899	6356080.147	137.329
380.000	347297.769	6356078.543	137.193
390.000	347307.640	6356076.939	137.068
400.000	347317.511	6356075.336	136.944
410.000	347327.381	6356073.732	136.803
420.000	347337.252	6356072.129	136.642
430.000	347347.122	6356070.525	136.461
440.000	347356.993	6356068.921	136.275
450.000	347366.863	6356067.318	136.111
460.000	347376.734	6356065.714	135.967
470.000	347386.605	6356064.110	135.845
480.000	347396.475	6356062.507	135.744
490.000	347406.346	6356060.903	135.665
500.000	347416.216	6356059.300	135.599
510.000	347426.087	6356057.696	135.534
520.000	347435.958	6356056.092	135.478
524.742	347440.638	6356055.332	135.457
525.000	347440.893	6356055.291	135.456
530.000	347445.829	6356054.493	135.438
535.000	347450.766	6356053.704	135.423
540.000	347455.705	6356052.923	135.413
545.000	347460.645	6356052.151	135.406
550.000	347465.586	6356051.386	135.403

SETOUT SANDY CREEK ROAD (CL)			
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL
555.000	347470.529	6356050.630	135.404
560.000	347475.472	6356049.882	135.409
560.835	347476.298	6356049.758	135.410
570.000	347485.361	6356048.398	135.430
580.000	347495.251	6356046.913	135.473
590.000	347505.140	6356045.428	135.537
600.000	347515.029	6356043.943	135.622
610.000	347524.918	6356042.459	135.729
620.000	347534.807	6356040.974	135.848
630.000	347544.696	6356039.489	135.957
640.000	347554.586	6356038.004	136.055
650.000	347564.475	6356036.520	136.156
660.000	347574.364	6356035.035	136.279
670.000	347584.253	6356033.550	136.431
680.000	347594.142	6356032.065	136.611
690.000	347604.031	6356030.581	136.818
700.000	347613.921	6356029.096	137.024
710.000	347623.810	6356027.611	137.223
720.000	347633.699	6356026.126	137.413
730.000	347643.588	6356024.641	137.595
740.000	347653.477	6356023.157	137.769
750.000	347663.366	6356021.672	137.958
760.000	347673.256	6356020.187	138.149
770.000	347683.145	6356018.702	138.340
780.000	347693.034	6356017.218	138.531
790.000	347702.923	6356015.733	138.718
800.000	347712.812	6356014.248	138.886
810.000	347722.701	6356012.763	139.036
820.000	347732.590	6356011.279	139.166
830.000	347742.480	6356009.794	139.278
840.000	347752.369	6356008.309	139.371
845.436	347757.745	6356007.502	139.413
850.000	347762.256	6356006.810	139.444
855.000	347767.193	6356006.017	139.474
860.000	347772.124	6356005.190	139.503
865.000	347777.049	6356004.327	139.532
870.000	347781.967	6356003.430	139.560
875.000	347786.880	6356002.497	139.588
880.000	347791.785	6356001.529	139.615
885.000	347796.683	6356000.526	139.641
890.000	347801.574	6355999.488	139.667
895.000	347806.458	6355998.415	139.692
900.000	347811.334	6355997.307	139.716
905.000	347816.201	6355996.164	139.740
910.000	347821.061	6355994.987	139.763
915.000	347825.912	6355993.775	139.786
920.000	347830.754	6355992.529	139.803
925.000	347835.587	6355991.247	139.809
930.000	347840.411	6355989.932	139.815
932.017	347842.354	6355989.391	139.817
940.000	347850.042	6355987.241	139.827
950.000	347859.672	6355984.548	139.840
960.000	347869.303	6355981.854	139.852
970.000	347878.933	6355979.161	139.865
973.601	347882.401	6355978.191	139.869
975.000	347883.748	6355977.813	139.871
980.000	347888.558	6355976.448	139.877
985.000	347893.361	6355975.058	139.883
990.000	347898.157	6355973.645	139.890
991.425	347899.522	6355973.237	139.891

SETOUT SANDY CREEK ROAD (CL)			
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL
1000.000	347907.738	6355970.781	139.902
1010.000	347917.319	6355967.916	139.915
1020.000	347926.900	6355965.052	139.924
1030.000	347936.481	6355962.187	139.922
1040.000	347946.062	6355959.322	139.910
1045.506	347951.337	6355957.745	139.898
1050.000	347955.647	6355956.470	139.886
1055.000	347960.450	6355955.083	139.869
1060.000	347965.263	6355953.727	139.851
1065.000	347970.085	6355952.404	139.829
1070.000	347974.915	6355951.113	139.804
1075.000	347979.754	6355949.854	139.777
1080.000	347984.601	6355948.627	139.750
1085.000	347989.456	6355947.433	139.723
1090.000	347994.319	6355946.271	139.695
1095.000	347999.190	6355945.141	139.668
1100.000	348004.068	6355944.044	139.641
1105.000	348008.954	6355942.979	139.614
1110.000	348013.846	6355941.948	139.586
1115.000	348018.745	6355940.948	139.559
1120.000	348023.651	6355939.982	139.532
1125.000	348028.563	6355939.048	139.505
1130.000	348033.481	6355938.147	139.477
1135.000	348038.405	6355937.278	139.450
1140.000	348043.335	6355936.443	139.423
1145.000	348048.270	6355935.640	139.394
1150.000	348053.210	6355934.871	139.362
1150.057	348053.267	6355934.862	139.362
1160.000	348063.096	6355933.365	139.292
1170.000	348072.982	6355931.860	139.211
1180.000	348082.868	6355930.354	139.121
1190.000	348092.754	6355928.848	139.020
1200.000	348102.640	6355927.343	138.910
1210.000	348112.526	6355925.837	138.790
1220.000	348122.412	6355924.332	138.660
1230.000	348132.298	6355922.826	138.520
1240.000	348142.184	6355921.320	138.372
1250.000	348152.070	6355919.815	138.223
1260.000	348161.956	6355918.309	138.084
1270.000	348171.842	6355916.804	137.965
1280.000	348181.728	6355915.298	137.865
1290.000	348191.614	6355913.792	137.785
1300.000	348201.500	6355912.287	137.724
1310.000	348211.386	6355910.781	137.674
1320.000	348221.272	6355909.276	137.623
1330.000	348231.158	6355907.770	137.572
1340.000	348241.044	6355906.264	137.526
1350.000	348250.930	6355904.759	137.489
1360.000	348260.816	6355903.253	137.460
1370.000	348270.702	6355901.748	137.440
1380.000	348280.588	6355900.242	137.429
1390.000	348290.474	6355898.736	137.426
1400.000	348300.360	6355897.231	137.432
1410.000	348310.246	6355895.725	137.443
1420.000	348320.132	6355894.220	137.454
1430.000	348330.018	6355892.714	137.461
1440.000	348339.904	6355891.208	137.460
1450.000	348349.790	6355889.703	137.453
1460.000	348359.676	6355888.197	137.438
1470.000	348369.562	6355886.692	137.416

SETOUT SANDY CREEK ROAD (CL)			
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL
1473.240	348372.766	6355886.204	137.408
1475.000	348374.505	6355885.939	137.403
1480.000	348379.449	6355885.191	137.391
1485.000	348384.393	6355884.447	137.378
1490.000	348389.339	6355883.708	137.365
1495.000	348394.284	6355882.974	137.353
1500.000	348399.231	6355882.246	137.360
1505.000	348404.178	6355881.522	137.374
1510.000	348409.126	6355880.803	137.387
1514.858	348413.935	6355880.109	137.400
1520.000	348419.024	6355879.377	137.414
1530.000	348428.922	6355877.954	137.440
1540.000	348438.821	6355876.531	137.460
1550.000	348448.719	6355875.107	137.469
1560.000	348458.617	6355873.684	137.467
1570.000	348468.515	6355872.261	137.454
1580.000	348478.413	6355870.838	137.430
1590.000			

SETOUT SANDY CREEK ROAD (CL)			
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL
1940.000	348834.358	6355817.033	137.660
1948.858	348843.122	6355815.749	137.621
1950.000	348844.253	6355815.585	137.616
1955.000	348849.203	6355814.885	137.595
1960.000	348854.159	6355814.219	137.582
1965.000	348859.119	6355813.587	137.570
1970.000	348864.083	6355812.989	137.558
1975.000	348869.051	6355812.425	137.546
1980.000	348874.023	6355811.895	137.534
1985.000	348878.998	6355811.399	137.522
1990.000	348883.977	6355810.937	137.509
1995.000	348888.958	6355810.510	137.497
2000.000	348893.943	6355810.116	137.485
2005.000	348898.930	6355809.757	137.471
2010.000	348903.919	6355809.432	137.455
2015.000	348908.911	6355809.141	137.435
2020.000	348913.904	6355808.884	137.413
2025.000	348918.899	6355808.661	137.387
2030.000	348923.896	6355808.473	137.359
2035.000	348928.893	6355808.319	137.331
2040.000	348933.892	6355808.199	137.308
2045.000	348938.891	6355808.113	137.289
2050.000	348943.891	6355808.062	137.274
2055.000	348948.891	6355808.044	137.264
2060.000	348953.891	6355808.061	137.258
2065.000	348958.890	6355808.113	137.254
2070.000	348963.890	6355808.198	137.250
2075.000	348968.888	6355808.318	137.246
2078.350	348972.237	6355808.417	137.243
2080.000	348973.886	6355808.470	137.242
2089.700	348983.581	6355808.780	137.234
2090.000	348983.881	6355808.790	137.234
2095.000	348988.879	6355808.933	137.230
2100.000	348993.877	6355809.045	137.226
2105.000	348998.877	6355809.128	137.222
2110.000	349003.876	6355809.181	137.218
2115.000	349008.876	6355809.203	137.214
2120.000	349013.876	6355809.196	137.210
2125.000	349018.876	6355809.158	137.204
2130.000	349023.876	6355809.090	137.199
2135.000	349028.875	6355808.992	137.193
2140.000	349033.873	6355808.864	137.187
2145.000	349038.871	6355808.706	137.182
2150.000	349043.867	6355808.517	137.176
2155.000	349048.862	6355808.299	137.167
2160.000	349053.856	6355808.050	137.156
2165.000	349058.848	6355807.772	137.142
2170.000	349063.839	6355807.463	137.126
2175.000	349068.827	6355807.124	137.108
2180.000	349073.814	6355806.756	137.087
2185.000	349078.798	6355806.357	137.064
2190.000	349083.779	6355805.928	137.039
2195.000	349088.758	6355805.469	137.011
2200.000	349093.734	6355804.981	136.980
2205.000	349098.707	6355804.462	136.948
2210.000	349103.677	6355803.913	136.912
2215.000	349108.643	6355803.334	136.875
2220.000	349113.606	6355802.726	136.835
2225.000	349118.565	6355802.088	136.792
2230.000	349123.521	6355801.419	136.748

SETOUT SANDY CREEK ROAD (CL)			
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL
2235.000	349128.472	6355800.721	136.700
2240.000	349133.418	6355799.993	136.652
2245.000	349138.360	6355799.236	136.603
2250.000	349143.298	6355798.448	136.554
2255.000	349148.231	6355797.631	136.505
2260.000	349153.159	6355796.784	136.456
2265.000	349158.081	6355795.907	136.407
2270.000	349162.998	6355795.001	136.358
2275.000	349167.910	6355794.065	136.309
2280.000	349172.816	6355793.100	136.261
2285.000	349177.716	6355792.105	136.216
2290.000	349182.610	6355791.081	136.175
2295.000	349187.497	6355790.027	136.137
2300.000	349192.379	6355788.943	136.103
2300.959	349193.314	6355788.732	136.097
2310.000	349202.132	6355786.737	136.045
2320.000	349211.886	6355784.529	136.001
2330.000	349221.639	6355782.322	135.970
2340.000	349231.392	6355780.115	135.933
2350.000	349241.146	6355777.907	135.880
2360.000	349250.899	6355775.700	135.812
2370.000	349260.652	6355773.493	135.748
2380.000	349270.406	6355771.286	135.705
2390.000	349280.159	6355769.078	135.685
2397.973	349287.936	6355767.318	135.676
2400.000	349289.913	6355766.873	135.674
2405.000	349294.795	6355765.793	135.669
2410.000	349299.683	6355764.740	135.664
2415.000	349304.576	6355763.712	135.659
2420.000	349309.475	6355762.711	135.654
2425.000	349314.379	6355761.737	135.649
2430.000	349319.288	6355760.788	135.644
2435.000	349324.202	6355759.866	135.639
2440.000	349329.121	6355758.971	135.634
2445.000	349334.045	6355758.102	135.629
2450.000	349338.974	6355757.259	135.625
2455.000	349343.907	6355756.444	135.621
2460.000	349348.844	6355755.654	135.619
2465.000	349353.785	6355754.891	135.617
2470.000	349358.731	6355754.155	135.616
2475.000	349363.680	6355753.445	135.615
2480.000	349368.633	6355752.762	135.616
2485.000	349373.590	6355752.106	135.617
2490.000	349378.550	6355751.476	135.620
2493.323	349381.849	6355751.072	135.621
2500.000	349388.478	6355750.272	135.626
2510.000	349398.406	6355749.075	135.635
2520.000	349408.334	6355747.877	135.655
2530.000	349418.262	6355746.680	135.706
2540.000	349428.190	6355745.482	135.791
2550.000	349438.118	6355744.285	135.909
2560.000	349448.046	6355743.088	136.060
2570.000	349457.974	6355741.890	136.233
2580.000	349467.902	6355740.693	136.407
2584.824	349472.691	6355740.115	136.485
2590.000	349477.812	6355739.359	136.561
2600.000	349487.705	6355737.900	136.687
2610.000	349497.598	6355736.440	136.785
2620.000	349507.490	6355734.980	136.857
2630.000	349517.383	6355733.521	136.906

SETOUT SANDY CREEK ROAD (CL)			
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL
2640.000	349527.276	6355732.061	136.930
2650.000	349537.169	6355730.601	136.931
2654.054	349541.179	6355730.010	136.925
2655.000	349542.116	6355729.872	136.923
2660.000	349547.068	6355729.183	136.908
2665.000	349552.028	6355728.551	136.888
2670.000	349556.995	6355727.978	136.861
2675.000	349561.968	6355727.464	136.830
2680.000	349566.947	6355727.008	136.796
2685.000	349571.932	6355726.610	136.763
2690.000	349576.920	6355726.272	136.730
2695.000	349581.912	6355725.992	136.696
2700.000	349586.907	6355725.770	136.663

SURVEY STATIONS				
POINT No	EASTING (MGA)	NORTHING (MGA)	RL (AHD)	DESCRIPTI ON
PM 109448	346895.49	6356178.03	140.11	PM
2000	347021.9	6356117.24	140.55	GIP
2002	347183.15	6356103.34	137.81	GIP
2003	347315.94	6356068.04	136.75	GIP
2004	347408.46	6356053.57	135.15	GIP
2005	347497.56	6356052.72	134.78	GIP
2006	347630.99	6356018.29	137.89	GIP
2007	347781.25	6356009.36	139.05	GIP
2008	347926.5	6355971.25	139.1	GIP
2009	348008.29	6355935.93	139.17	GIP
2010	348091.23	6355936.88	138.92	GIP
2011	348242.93	6355913.1	136.76	GIP
2012	348396.89	6355889.03	136.63	GIP
2013	348501.88	6355873.67	136.53	GIP
2014	348602.39	6355857.17	136.37	GIP
2015	348755.87	6355819.78	137.89	GIP
2016	348893.54	6355799.62	137.29	GIP
2017	348975.57	6355814.11	136.66	GIP
2018	349074.88	6355812.82	136.8	GIP
2019	349173.26	6355798.45	136.15	GIP
2020	349257.41	6355768.41	134.94	GIP
2021	349370.96	6355758.41	134.65	GIP
2022	349478.01	6355732.11	136.56	GIP
2023	349581.35	6355720.07	136.68	GIP

REV	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE



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GILLIESTON HEIGHTS NSW 2321  
0466 253 917

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SURVEY:	DELFS LASCELLES	CLIENT	CESSNOCK CITY COUNCIL	
DESIGN:	M.M	PLAN:	LONGITUDINAL SECTION	CROSS SECTION
DRAWN:	M.M	HORIZ.	N/A	N/A
CHECKED:	M.M	VERT.	N/A	N/A
DATE:	11.08.2023	APPROVED:	M.M	N/A

PROJECT  
**LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG**

DRAWING TITLE  
**SANDY CREEK ROAD SETOUT SHEET 02 OF 02**


**SHEET 107 OF 116 SHEETS**

PROJECT No  
**AL22077**

DWG No  
**C11-107**

**CONSTRUCTION**

REVISION  
**1**



SETOUT DW01 (CL)			
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL
0.000	347099.927	6356110.366	139.945
3.500	347100.557	6356113.809	139.805
4.500	347100.737	6356114.792	139.765
6.394	347101.078	6356116.655	139.709
6.608	347101.117	6356116.866	139.699
10.000	347101.727	6356120.202	139.418
13.375	347102.334	6356123.522	139.277

SETOUT DW02 (CL)			
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL
0.000	347180.462	6356097.391	138.795
3.500	347179.917	6356093.933	138.708
4.500	347179.761	6356092.945	138.683
4.691	347179.731	6356092.757	138.676
6.500	347179.450	6356090.970	138.590
7.000	347179.372	6356090.476	138.560
8.500	347179.138	6356088.994	138.488
9.500	347178.983	6356088.006	138.479

SETOUT DW03 (CL)			
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL
0.000	347713.965	6356014.075	138.905
3.500	347714.485	6356017.536	138.785
4.500	347714.633	6356018.525	138.751
4.505	347714.634	6356018.530	138.751
6.278	347714.897	6356020.284	138.749
8.685	347715.255	6356022.664	138.901

SETOUT DW04 (CL)			
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL
0.000	347934.850	6355962.674	139.923
3.500	347933.848	6355959.321	139.932
4.500	347933.561	6355958.363	139.935
6.797	347932.903	6355956.162	139.901
6.798	347932.903	6355956.161	139.901
7.439	347932.719	6355955.547	139.881
10.000	347931.986	6355953.094	139.783
12.695	347931.214	6355950.511	139.765

SETOUT DW05 (CL)			
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL
0.000	347975.715	6355950.907	139.800
3.500	347974.841	6355947.518	139.877
4.500	347974.591	6355946.549	139.899
5.000	347974.467	6355946.065	139.907
6.640	347974.057	6355944.477	139.909
10.000	347973.218	6355941.224	139.788
15.000	347971.970	6355936.382	139.649
16.346	347971.634	6355935.079	139.681

SETOUT DW06 (CL)			
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL
0.000	348019.399	6355940.817	139.539
3.500	348020.084	6355944.250	139.434
4.500	348020.280	6355945.230	139.404
5.000	348020.378	6355945.721	139.380
6.537	348020.679	6355947.228	139.249
9.492	348021.257	6355950.126	138.850
10.000	348021.401	6355950.613	138.806

SETOUT DW07 (CL)			
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL
0.000	348098.594	6355927.959	138.956
3.500	348098.067	6355924.499	138.869
4.500	348097.917	6355923.510	138.844
5.000	348097.841	6355923.016	138.838
7.188	348097.512	6355920.853	138.890

SETOUT DW08 (CL)			
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL
0.000	348103.911	6355927.149	138.895
3.500	348104.438	6355930.609	138.755
4.500	348104.589	6355931.598	138.715
5.000	348104.664	6355932.092	138.700
7.165	348104.990	6355934.232	138.779
10.000	348105.417	6355937.035	138.939
10.293	348105.461	6355937.325	138.956
15.000	348106.170	6355941.978	138.909

SETOUT DW09 (CL)			
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL
0.000	348210.635	6355910.896	137.677
3.500	348211.162	6355914.356	137.537
4.500	348211.313	6355915.344	137.497
5.000	348211.388	6355915.839	137.471
6.400	348211.599	6355917.223	137.333
10.000	348212.141	6355920.782	137.036
10.430	348212.206	6355921.207	137.030

SETOUT DW10 (CL)			
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL
0.000	348336.243	6355891.766	137.461
3.500	348335.716	6355888.306	137.374
4.500	348335.566	6355887.317	137.349
5.000	348335.490	6355886.823	137.332
5.858	348335.361	6355885.975	137.286
8.464	348334.969	6355883.398	137.004
9.929	348334.748	6355881.950	136.816
10.000	348334.747	6355881.879	136.809

SETOUT DW11 (CL)			
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL
0.000	348408.883	6355880.838	137.386
3.500	348408.381	6355877.374	137.281
4.500	348408.238	6355876.385	137.251
5.000	348408.166	6355875.890	137.236
6.500	348407.951	6355874.405	137.191
10.000	348407.449	6355870.941	137.037
10.388	348407.394	6355870.557	137.015
11.541	348406.995	6355869.475	136.951
12.694	348406.597	6355868.394	136.905
13.847	348406.198	6355867.312	136.883
15.000	348405.800	6355866.230	136.883

SETOUT DW12 (CL)			
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL
0.000	348457.423	6355873.856	137.468
3.500	348456.925	6355870.392	137.380
4.500	348456.782	6355869.402	137.355
5.000	348456.711	6355868.907	137.342
6.500	348456.498	6355867.422	137.305
10.000	348456.000	6355863.958	137.269
11.014	348455.855	6355862.954	137.285

SETOUT DW13 (CL)			
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL
0.000	348464.473	6355872.842	137.461
3.500	348464.971	6355876.307	137.321
4.500	348465.114	6355877.296	137.281
5.000	348465.185	6355877.791	137.258
6.564	348465.407	6355879.339	137.156
10.000	348465.896	6355882.740	136.833
10.495	348465.967	6355883.230	136.799
12.246	348466.216	6355884.963	136.722

SETOUT DW14 (CL)			
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL
0.000	348510.025	6355866.172	137.293
3.500	348509.473	6355862.715	137.205
4.500	348509.316	6355861.728	137.180
5.000	348509.237	6355861.234	137.168
5.310	348509.188	6355860.928	137.160
8.696	348508.654	6355857.585	137.099
9.131	348508.601	6355857.153	137.104
9.565	348508.580	6355856.719	137.114
10.000	348508.590	6355856.285	137.128
10.482	348508.638	6355855.805	137.147
11.635	348508.798	6355854.663	137.193

SETOUT DW15 (CL)			
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL
0.000	348746.205	6355829.943	137.842
3.500	348745.698	6355826.480	137.924
4.500	348745.553	6355825.491	137.947
5.000	348745.481	6355824.996	137.954
5.340	348745.431	6355824.660	137.953
5.746	348745.386	6355824.257	137.947
6.151	348745.368	6355823.851	137.934
6.726	348745.363	6355823.277	137.906
10.000	348745.329	6355820.003	137.917

SETOUT DW16 (CL)			
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL
0.000	348747.171	6355829.802	137.843
3.500	348747.678	6355833.265	137.703
4.500	348747.823	6355834.254	137.663
5.000	348747.895	6355834.749	137.642
6.337	348748.089	6355836.072	137.561
10.000	348748.620	6355839.696	137.310
10.674	348748.718	6355840.363	137.288

SETOUT DW17 (CL)			
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL
0.000	348901.537	6355809.583	137.463
3.030	348901.341	6355806.559	137.558
3.359	348901.333	6355806.230	137.568
3.501	348901.335	6355806.088	137.573
4.504	348901.353	6355805.085	137.604
5.000	348901.361	6355804.590	137.618
6.852	348901.393	6355802.738	137.634
7.000	348901.399	6355802.590	137.633
7.319	348901.429	6355802.272	137.630
8.366	348901.569	6355801.235	137.607
10.000	348901.788	6355799.616	137.555
15.000	348902.457	6355794.660	137.450
17.207	348902.752	6355792.473	137.483

SETOUT DW18 (CL)			
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL
0.000	349087.790	6355805.561	137.016
3.500	349088.117	6355809.046	137.121
4.500	349088.211	6355810.041	137.151
5.000	349088.257	6355810.539	137.163
8.087	349088.546	6355813.612	137.109
8.972	349088.629	6355814.494	137.055
10.000	349088.725	6355815.517	136.997
12.052	349088.917	6355817.560	136.961
12.456	349088.969	6355817.960	136.967
12.860	349089.047	6355818.357	136.978
13.264	349089.152	6355818.747	136.992

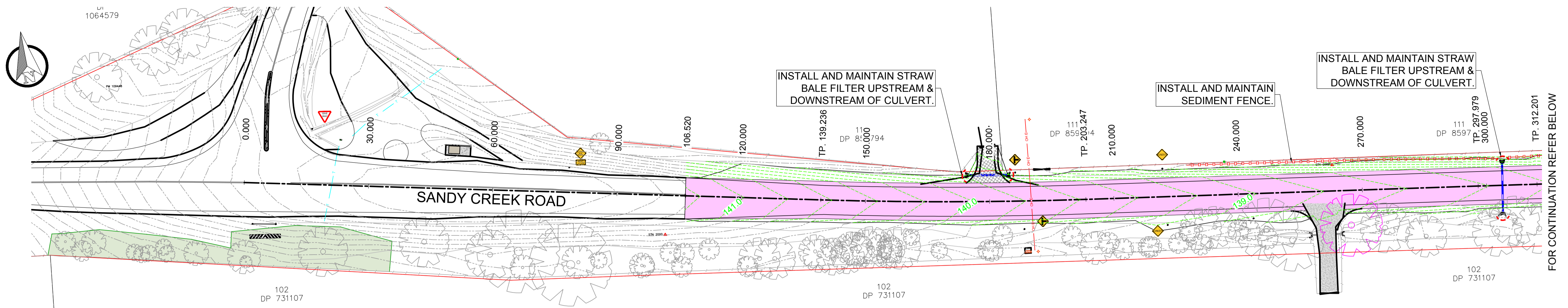
SETOUT DW19 (CL)			
CHAINAGE	EASTING	NORTHING	DESIGN LEVEL
0.000	349094.404	6355804.912	136.976
3.500	349094.759	6355808.394	137.081
4.500	349094.861	6355809.389	137.111
5.000	349094.912	6355809.887	137.124
6.724	349095.087	6355811.602	137.132
8.510	349095.268	6355813.378	137.084
10.000	349095.420	6355814.861	137.051
12.366	349095.660	6355817.215	137.120
12.825	349095.724	6355817.669	137.139

REV	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE

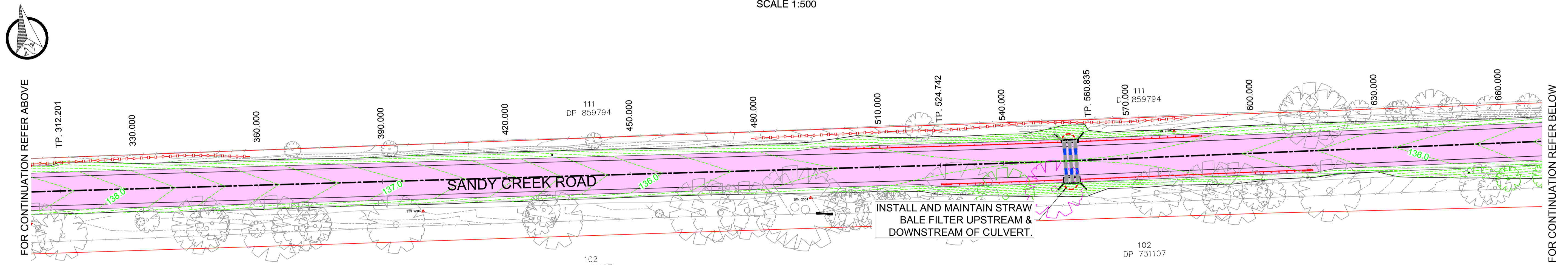
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0466 253 917

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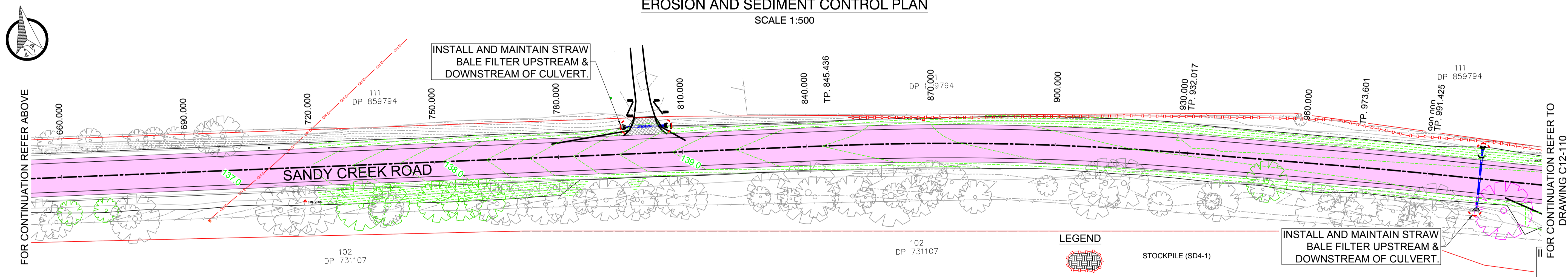
SURVEY: DELFS LASCELLES	CLIENT: CESSNOCK CITY COUNCIL
DESIGN: M.M	
DRAWN	



EROSION AND SEDIMENT CONTROL PLAN  
SCALE 1:500



EROSION AND SEDIMENT CONTROL PLAN  
SCALE 1:500



EROSION AND SEDIMENT CONTROL PLAN  
SCALE 1:500

- LEGEND**
- STOCKPILE (SD4-1)
  - STRAW BALE FILTER (SD6-7)
  - SEDIMENT FENCE (SD6-8)
  - GRAVEL BAGS



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GILLJESTON HEIGHTS NSW 2321  
0466 253 917

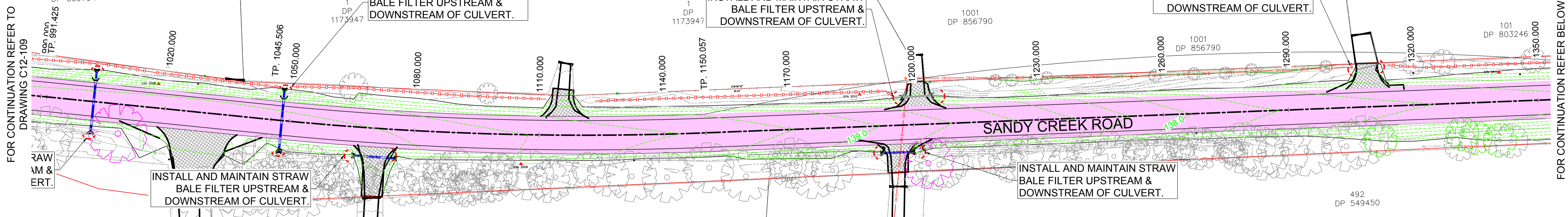
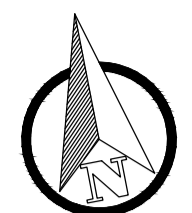
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SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL	
DESIGN:	M.M	PROJECT:	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG	
DRAWN:	M.M	DRAWING TITLE:	EROSION & SEDIMENT CONTROL PLAN SHEET 01 OF 03	
CHECKED:	M.M	PROJECT No:	AL22077	REVISION: 1
DATE:	11.08.2023	DWG No:	C12-109	
APPROVED:	M.M	PLAN:	1:2000 (A1)	
		LONGITUDINAL SECTION:	HORIZ. 1:500	
		CROSS SECTION:	HORIZ. N/A	
			VERT. 1:100	
			VERT. N/A	

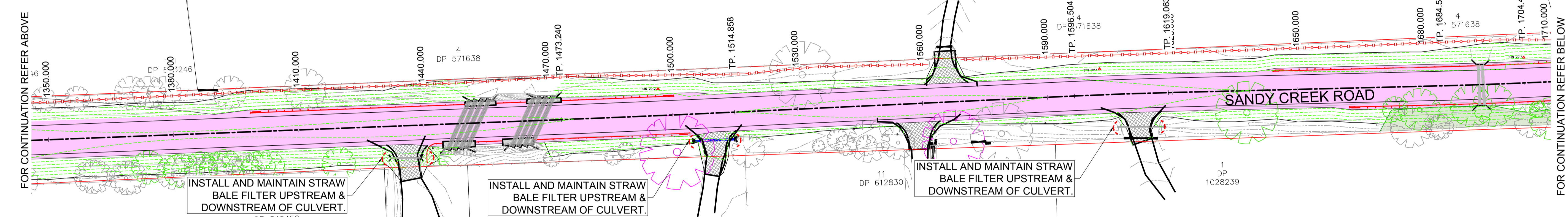
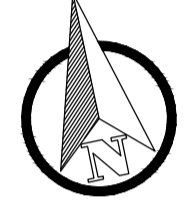
**CONSTRUCTION**

SHEET 109 OF 116 SHEETS

PROJECT No	AL22077	REVISION	1
DWG No	C12-109		

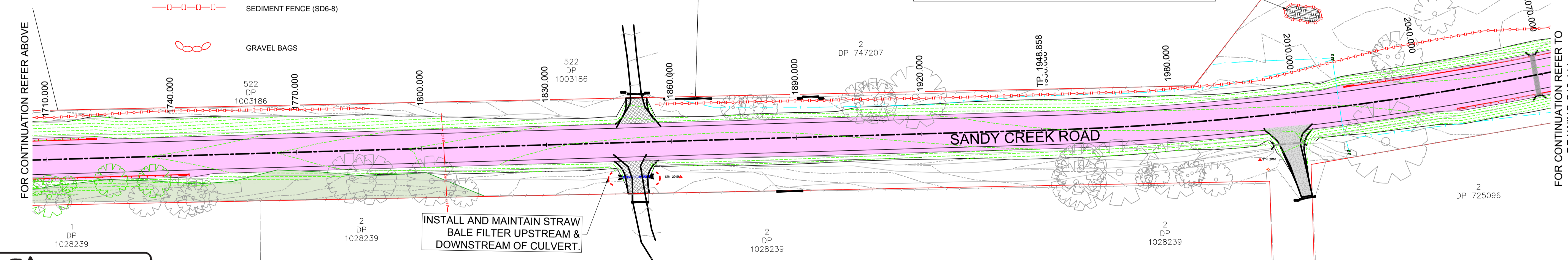
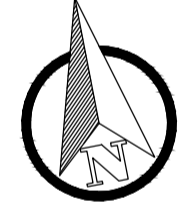


EROSION AND SEDIMENT CONTROL PLAN  
SCALE 1:500



EROSION AND SEDIMENT CONTROL PLAN  
SCALE 1:500

- LEGEND**
- STOCKPILE (SD4-1)
  - STRAW BALE FILTER (SD6-7)
  - SEDIMENT FENCE (SD6-8)
  - GRAVEL BAGS



EROSION AND SEDIMENT CONTROL PLAN  
SCALE 1:500



**AL CIVIL DESIGN**  
AL Civil Design  
5 Yew Street  
GILLJESTON HEIGHTS NSW 2321  
0466 253 917

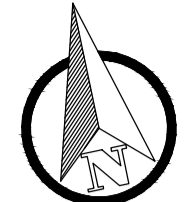
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SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL
DESIGN:	M.M	PROJECT:	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWN:	M.M	DRAWING TITLE:	EROSION & SEDIMENT CONTROL PLAN SHEET 02 OF 03
CHECKED:	M.M	DATE:	11.08.2023
DATE:	11.08.2023	APPROVED:	M.M
PLAN:	1:2000 (A1)	LONGITUDINAL SECTION:	HORIZ. 1:500 VERT. 1:100
		CROSS SECTION:	HORIZ. N/A VERT. N/A

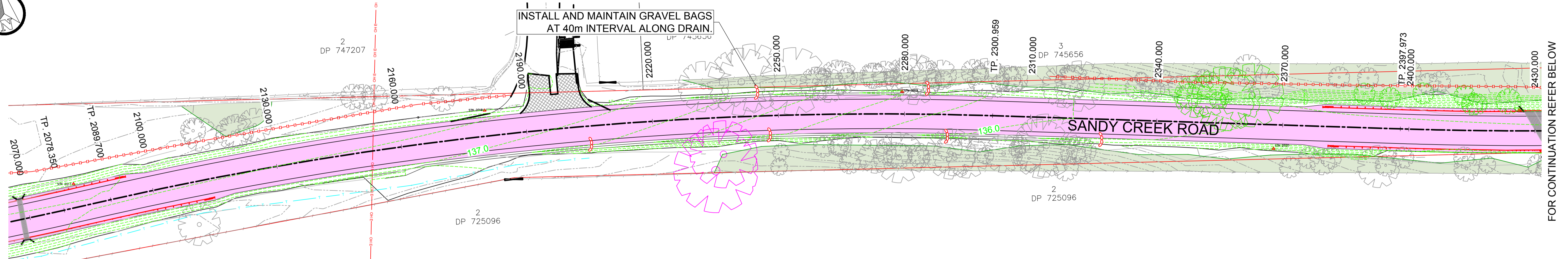
PROJECT No:	AL22077	REVISION:	1
DWG No:	C12-110		
<b>CONSTRUCTION</b>			
SHEET 110 OF 116 SHEETS			

PROJECT No:	AL22077	REVISION:	1
DWG No:	C12-110		
<b>CONSTRUCTION</b>			
SHEET 110 OF 116 SHEETS			

REV	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23
REV	REVISION DETAILS	ISSUED BY	DATE

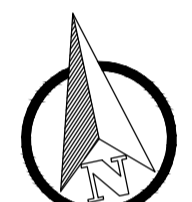


FOR CONTINUATION REFER TO DRAWING C12-110

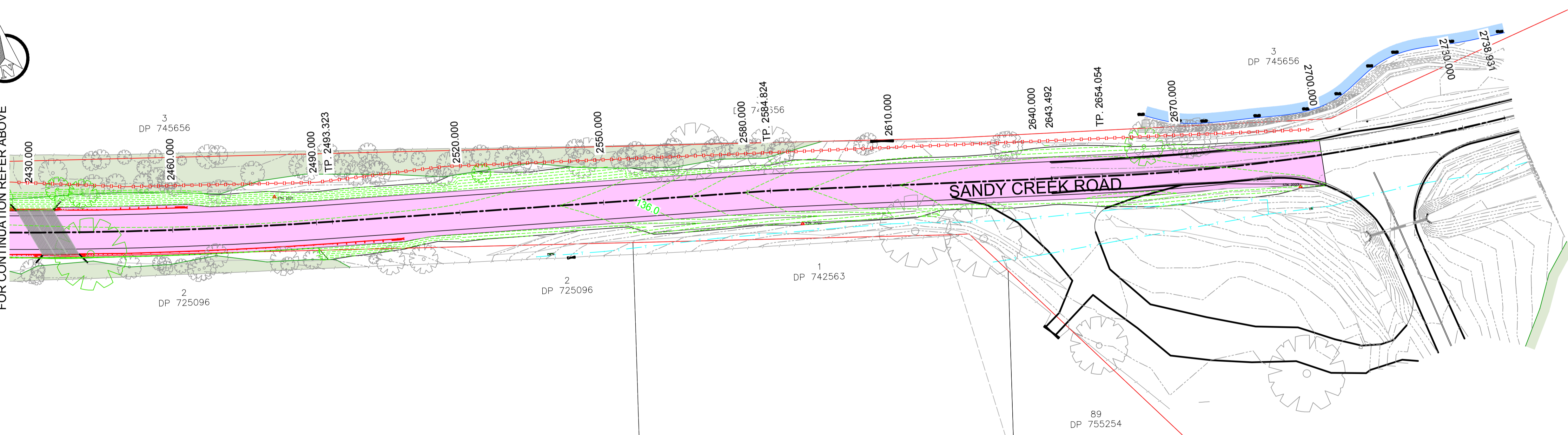


FOR CONTINUATION REFER BELOW

EROSION AND SEDIMENT CONTROL PLAN  
SCALE 1:500



FOR CONTINUATION REFER ABOVE



EROSION AND SEDIMENT CONTROL PLAN  
SCALE 1:500

LEGEND	
	STOCKPILE (SD4-1)
	STRAW BALE FILTER (SD6-7)
	SEDIMENT FENCE (SD6-8)
	GRAVEL BAGS



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SURVEY:	DELFS LASCELLES	CLIENT:	CESSNOCK CITY COUNCIL	
DESIGN:	M.M	PLAN:	LONGITUDINAL SECTION	CROSS SECTION
DRAWN:	M.M	DATE:	HORIZ. 1:500	HORIZ. N/A
CHECKED:	M.M	APPROVED:	VERT. 1:100	VERT. N/A
DATE:	11.08.2023	SCALE:	1:2000 (A1)	

PROJECT:	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWING TITLE:	EROSION & SEDIMENT CONTROL PLAN SHEET 03 OF 03
SHEET:	111 OF 116 SHEETS

PROJECT No:	AL22077	REVISION:	1
DWG No:	C12-111		
<b>CONSTRUCTION</b>			
 1:2000 (A1)			

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23



**EROSION & SEDIMENT CONTROL NOTES**

**GENERAL**

1. SEDIMENT, INCLUDES, BUT IS NOT LIMITED TO, CLAY, SILT, SAND, GRAVEL, SOIL, MUD, CEMENT, AND CERAMIC WASTE.
2. ANY MATERIAL DEPOSITED ON/IN ANY CONSERVATION AREA/LOT/ EASEMENT FROM WORKS ASSOCIATED WITH THE DEVELOPMENT SHALL BE REMOVED IMMEDIATELY BY MEASURES INVOLVING MINIMAL GROUND AND/OR VEGETATION DISTURBANCE AND NO MACHINERY, OR FOLLOWING DIRECTIONS BY COUNCIL AND/OR WITHIN A TIMEFRAME ADVISED BY COUNCIL.
3. VEHICLE ACCESS AND ALL SERVICES ADJOINING ON ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION WORKS SHALL BE MAINTAINED AT ALL TIMES.
4. ALL BUILDERS AND SUB-CONTRACTORS WILL BE INFORMED OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS.

**THE EROSION AND SEDIMENT CONTROL PLAN/SOIL AND WATER MANAGEMENT PLAN (ESCP/SWMP)**

1. THE ESCP AND ITS ASSOCIATED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTANTLY MONITORED, REVIEWED, AND MODIFIED AS REQUIRED TO CORRECT DEFICIENCIES. COUNCIL HAS THE RIGHT TO REQUEST CHANGES IF, IN ITS OPINION, THE MEASURES THAT ARE PROPOSED OR HAVE BEEN INSTALLED ARE INADEQUATE TO PREVENT POLLUTION.
2. PRIOR TO ANY ACTIVITIES ONSITE, THE RESPONSIBLE PERSON(S) IS TO BE NOMINATED. THE RESPONSIBLE PERSON(S) SHALL BE RESPONSIBLE FOR THE EROSION AND SEDIMENT CONTROL (ESC) MEASURES ONSITE. THE NAME, ADDRESS AND 24 HOUR CONTACT DETAILS OF THE PERSON(S) SHALL BE PROVIDED TO COUNCIL IN WRITING. COUNCIL SHALL BE ADVISED WITHIN 48 HOURS OF ANY CHANGES TO THE RESPONSIBLE PERSON(S), OR THEIR CONTACT DETAILS, IN WRITING.
3. AT LEAST 14 DAYS BEFORE THE NATURAL SURFACE IS DISTURBED IN ANY NEW STAGE, THE CONTRACTOR SHALL SUBMIT TO THE CERTIFIER, A PLAN SHOWING ESC MEASURES FOR THAT STAGE. THE DEGREE OF DESIGN DETAIL SHALL VARY BASED ON THE EXTENT OF THE AREA TO BE DISTURBED.
4. AT ANY TIME DURING ONSITE WORKS, THE CONTRACTOR SHALL BE ABLE TO DEMONSTRATE THAT ADEQUATE CAPACITY EXISTS FOR SEDIMENT CAPTURE AND TREATMENT IN ONSITE EROSION AND SEDIMENT CONTROL MEASURES FOR THE AREA DISTURBED AND THE SEDIMENT TYPE EXPOSED.
5. NO SITE WORKS SHALL COMMENCE PRIOR TO THE APPROVAL OF THE DETAILED ENGINEERING DESIGN. ITS IMPLEMENTATION SHALL BE SUPERVISED BY PERSONNEL WITH APPROPRIATE QUALIFICATIONS AND/OR EXPERIENCE IN ESC ON CONSTRUCTION SITES.
6. THE APPROVED ESCP SHALL BE AVAILABLE ON-SITE FOR INSPECTION BY COUNCIL OFFICERS WHILE WORK ACTIVITIES ARE OCCURRING.
7. THE APPROVED ESCP SHALL BE KEPT UP TO DATE AND SHOW A TIMELINE OF INSTALLATION, MAINTENANCE AND REMOVAL EROSION AND SEDIMENT CONTROLS.
8. ALL ESC MEASURES SHALL BE APPROPRIATE FOR THE SEDIMENT TYPE(S) OF THE SOILS ONSITE, IN ACCORDANCE WITH THE BLUE BOOK (MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION. LANDCOM, 2004), OR OTHER CURRENT RECOGNISED INDUSTRY STANDARD FOR EROSION AND SEDIMENT CONTROL FOR AUSTRALIAN CONDITIONS. THIS INCLUDES SEDIMENT TRAPS AND LINING OF CHANNELS.
9. ADEQUATE SITE DATA, INCLUDING SOIL DATA FROM A NATA APPROVED LABORATORY, SHALL BE OBTAINED TO ALLOW THE PREPARATION OF AN APPROPRIATE ESCP, AND ALLOW THE SELECTION, DESIGN AND SPECIFICATION OF REQUIRED ESC MEASURES.
10. THE ESCP SHALL CLEARLY STATE THAT NO LAND-DISTURBING ACTIVITIES ON THE SITE SHALL OCCUR UNTIL ALL PERIMETER ESC MEASURES, SEDIMENT BASINS, AND ASSOCIATED TEMPORARY DRAINAGE CONTROLS, HAVE BEEN CONSTRUCTED AND ARE FULLY OPERATIONAL, IN ACCORDANCE WITH CURRENT BEST PRACTICE ESC. THIS IS UNLESS SUCH CLEARING IS REQUIRED FOR THE PURPOSE OF INSTALLING SUCH MEASURES, IN WHICH CASE ONLY THE MINIMUM CLEARING REQUIRED TO INSTALL SUCH MEASURES SHALL OCCUR.
11. ADDITIONAL ESC MEASURES SHALL BE IMPLEMENTED, AND A REVISED ESCP IS TO BE SUBMITTED FOR APPROVAL TO THE CERTIFIER (WITHIN FIVE (5) BUSINESS DAYS OF ANY SUCH AMENDMENTS) IN THE EVENT THAT:
  - 11.1. THERE IS A HIGH PROBABILITY THAT SERIOUS OR MATERIAL ENVIRONMENTAL HARM MAY OCCUR AS A RESULT OF SEDIMENT LEAVING THE SITE; OR
  - 11.2. THE IMPLEMENTED WORKS FAIL TO ACHIEVE COUNCIL'S WATER QUALITY OBJECTIVES SPECIFIED IN THESE CONDITIONS; OR
  - 11.3. SITE CONDITIONS SIGNIFICANTLY CHANGE; OR
  - 11.4. SITE INSPECTIONS INDICATE THAT THE IMPLEMENTED WORKS ARE FAILING TO ACHIEVE THE "OBJECTIVE" OF THE ESCP.

12. A COPY OF ANY AMENDED ESCP SHALL BE FORWARDED TO AN APPROPRIATE COUNCIL OFFICER, WITHIN FIVE (5) BUSINESS DAYS OF ANY SUCH AMENDMENTS.

**SITE ESTABLISHMENT**

1. ALL OFFICE FACILITIES AND OPERATIONAL ACTIVITIES SHALL BE LOCATED SUCH THAT ANY EFFLUENT, INCLUDING WASH-DOWN WATER, CAN BE TOTALLY CONTAINED AND TREATED WITHIN THE SITE.
2. ALL REASONABLE AND PRACTICABLE MEASURES SHALL BE TAKEN TO ENSURE STORMWATER RUNOFF FROM ACCESS ROADS AND STABILISED ENTRY/EXIT SYSTEMS, DRAINS TO AN APPROPRIATE SEDIMENT CONTROL DEVICE.
3. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE APPROVED ESCP (AS AMENDED FROM TIME TO TIME) UNLESS CIRCUMSTANCES ARISE WHERE:
  - 3.1. COMPLIANCE WITH THE ESCP WOULD INCREASE THE POTENTIAL FOR ENVIRONMENTAL HARM AS ASSESSED BY AN AUTHORITY RECOGNISED BY COUNCIL; OR
  - 3.2. CIRCUMSTANCES CHANGE DURING CONSTRUCTION AND THOSE CIRCUMSTANCES COULD NOT HAVE BEEN FORESEEN; OR
  - 3.3. COUNCIL OR ITS REPRESENTATIVE DETERMINES THAT UNACCEPTABLE OFF-SITE SEDIMENTATION IS OCCURRING AS A RESULT OF A LAND-DISTURBING ACTIVITY. IN EITHER CASE, THE PERSON(S) RESPONSIBLE MAY BE REQUIRED TO TAKE ADDITIONAL, OR ALTERNATIVE PROTECTIVE ACTION, AND/OR UNDERTAKE REASONABLE RESTORATION WORKS WITHIN THE TIMEFRAME SPECIFIED BY THE COUNCIL.
4. THE APPLICANT SHALL ENSURE AN ADEQUATE SUPPLY OF ESC, AND APPROPRIATE POLLUTION CLEAN-UP MATERIALS ARE AVAILABLE ON-SITE AT ALL TIMES.
5. ALL TEMPORARY EARTH BANKS, FLOW DIVERSION SYSTEMS, AND SEDIMENT BASIN EMBANKMENTS SHALL BE MACHINE-COMPACTED, SEEDED AND MULCHED WITHIN TEN (10) DAYS OF FORMATION FOR THE PURPOSE OF ESTABLISHING A VEGETATIVE COVER, OR LINED APPROPRIATELY
6. SEDIMENT DEPOSITED OFF SITE AS A RESULT OF ON-SITE ACTIVITIES SHALL BE COLLECTED AND THE AREA CLEANED/REHABILITATED AS SOON AS REASONABLE AND PRACTICABLE.
7. CONCRETE WASTE AND CHEMICAL PRODUCTS, INCLUDING PETROLEUM AND OIL-BASED PRODUCTS, SHALL BE PREVENTED FROM ENTERING ANY INTERNAL OR EXTERNAL WATER BODY, OR ANY EXTERNAL DRAINAGE SYSTEM, EXCLUDING THOSE ON-SITE WATER BODIES SPECIFICALLY DESIGNED TO CONTAIN AND/OR TREAT SUCH MATERIAL. APPROPRIATE MEASURES SHALL BE INSTALLED TO TRAP THESE MATERIALS ONSITE.
8. BRICK, TILE OR MASONRY CUTTING SHALL BE CARRIED OUT ON A PVIOUS SURFACE (E.G. GRASS OR OPEN SOIL), OR IN SUCH A MANNER THAT ANY RESULTING SEDIMENT-LADEN RUNOFF IS PREVENTED FROM DISCHARGING INTO A GUTTER, DRAIN OR WATER. APPROPRIATE MEASURES SHALL BE INSTALLED TO TRAP THESE MATERIALS ONSITE.
9. NEWLY SEALED HARD-STAND AREAS (E.G. ROADS, DRIVEWAYS AND CAR PARKS) SHALL BE SWEPT THOROUGHLY AS SOON AS PRACTICABLE AFTER SEALING/SURFACING TO MINIMISE THE RISK OF COMPONENTS OF THE SURFACING COMPOUND ENTERING STORMWATER DRAINS.
10. STOCKPILES OF ERODIBLE MATERIAL SHALL BE PROVIDED WITH AN APPROPRIATE PROTECTIVE COVER (SYNTHETIC OR ORGANIC) IF THE MATERIALS ARE LIKELY TO BE STOCKPILED FOR MORE THAN 10 DAYS.
11. STOCKPILES, TEMPORARY OR PERMANENT, SHALL NOT BE LOCATED IN AREAS IDENTIFIED AS NO-GO ZONES (INCLUDING, BUT NOT LIMITED TO, RESTRICTED ACCESS AREAS, BUFFER ZONES, OR AREAS OF NON-DISTURBANCE) ON THE ESCP.

**SITE CLEARING AND MULCHING**

1. BULK TREE CLEARING AND GRUBBING OF THE SITE SHALL BE IMMEDIATELY FOLLOWED BY SPECIFIED TEMPORARY EROSION CONTROL MEASURES (E.G. TEMPORARY GRASSING OR MULCHING) PRIOR TO COMMENCEMENT OF EACH STAGE OF CONSTRUCTION WORKS;
2. TREES AND VEGETATION CLEARED FROM THE SITE SHALL BE MULCHED ONSITE WITHIN 7 DAYS OF CLEARING.

**MANAGEMENT OF DUST**

1. APPROPRIATE MEASURES SHALL BE UNDERTAKEN TO CONTROL ANY DUST ORIGINATING DUE TO THE MULCHING OF VEGETATION ONSITE;
2. PRIORITY SHALL BE GIVEN TO THE PREVENTION, OR AT LEAST THE MINIMISATION, OF SOIL EROSION, RATHER THAN THE TRAPPING OF DISPLACED SEDIMENT. SUCH A CLAUSE SHALL NOT REDUCE THE RESPONSIBILITY TO APPLY AND MAINTAIN, AT ALL TIMES, ALL NECESSARY SEDIMENT CONTROL MEASURES.
3. MEASURES USED TO CONTROL WIND EROSION SHALL BE APPROPRIATE FOR THE LOCATION AND PREVENT SOIL EROSION AT ALL TIMES, INCLUDING WORKING HOURS, OUT OF HOURS,

WEEKENDS, PUBLIC HOLIDAYS, AND DURING ANY OTHER SHUTDOWN PERIODS.

4. THE APPLICATION OF LIQUID OR CHEMICAL-BASED DUST SUPPRESSION MEASURES SHALL ENSURE THAT SEDIMENT-LADEN RUNOFF RESULTING FROM SUCH MEASURES (E.G. RUNOFF OF EXCESS WATER) DOES NOT CREATE A TRAFFIC OR ENVIRONMENTAL HAZARD.

**REVEGETATION/STABILISATION**

1. ALL CUT AND FILL EARTH BATTERS LESS THAN 3M IN ELEVATION SHALL BE TOPSOILED, AND GRASS SEEDED/HYDROMULCHED WITHIN 10 DAYS OF COMPLETION OF GRADING IN CONSULTATION WITH COUNCIL.
2. THE LMCC SEED MIX SHALL BE USED UNLESS STATED ON THE ESCP/SWMP.
3. THE PH LEVEL OF TOPSOIL SHALL BE APPROPRIATE TO ENABLE ESTABLISHMENT AND GROWTH OF SPECIFIED VEGETATION PRIOR TO INITIATING THE ESTABLISHMENT OF VEGETATION.
4. NON RETWETTABLE BINDER TO BE USED IN ALL HYDROMULCH/HYDROSEED/POLYMER MIXES ON SLOPES OR WORKS ADJACENT TO A WATER COURSE.
5. SOIL AMELIORANTS SHALL BE ADDED TO THE SOIL IN ACCORDANCE WITH AN APPROVED LANDSCAPE PLAN, VEGETATION MANAGEMENT PLAN, AND/OR SOIL ANALYSIS.
6. SURFACE SOIL DENSITY, COMPACTION AND SURFACE ROUGHNESS SHALL BE ADJUSTED PRIOR TO SEEDING/PLANTING IN ACCORDANCE WITH AN APPROVED LANDSCAPE PLAN, VEGETATION MANAGEMENT PLAN, AND/OR SOIL ANALYSIS.
7. PROCEDURES FOR INITIATING A SITE SHUTDOWN, WHETHER PROGRAMMED OR UNPROGRAMMED, SHALL INCORPORATE REVEGETATION OF ALL SOIL DISTURBANCES UNLESS OTHERWISE APPROVED BY COUNCIL. THE STABILISATION WORKS SHALL NOT RELY UPON THE LONGEVITY OF NON-VEGETATED EROSION CONTROL BLANKETS, OR TEMPORARY SOIL BINDERS.

**INSPECTION AND MAINTENANCE**

1. THE APPLICANT SHALL ENSURE THAT APPROPRIATE PROCEDURES AND SUITABLY QUALIFIED PERSONNEL ARE ENGAGED TO PLAN AND CONDUCT SITE INSPECTIONS AND WATER QUALITY MONITORING THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PHASE.
2. ALL ESC MEASURES SHALL BE INSPECTED:
  - 2.1. AT LEAST DAILY (WHEN WORK IS OCCURRING ON-SITE); AND
  - 2.2. AT LEAST WEEKLY (WHEN WORK IS NOT OCCURRING ON-SITE); AND
  - 2.3. WITHIN 24HRS OF EXPECTED RAINFALL; AND
  - 2.4. WITHIN 18HRS OF A RAINFALL EVENT THAT CAUSES RUNOFF ON THE SITE.
3. WRITTEN RECORDS SHALL BE KEPT ONSITE OF ESC MONITORING AND MAINTENANCE ACTIVITIES CONDUCTED DURING THE CONSTRUCTION AND MAINTENANCE PERIODS, AND BE AVAILABLE TO COUNCIL OFFICERS ON REQUEST.
4. ALL SITE MONITORING DATA INCLUDING RAINFALL RECORDS, DATES OF WATER QUALITY TESTING, TESTING RESULTS AND RECORDS OF CONTROLLED WATER RELEASES FROM THE SITE, SHALL BE KEPT IN AN ON-SITE REGISTER. THE REGISTER IS TO BE MAINTAINED UP TO DATE FOR THE DURATION OF THE APPROVED WORKS AND BE AVAILABLE ON-SITE FOR INSPECTION BY COUNCIL OFFICERS ON REQUEST.
5. ALL ENVIRONMENTAL INCIDENTS SHALL BE RECORDED IN A FIELD LOG THAT SHALL REMAIN ACCESSIBLE TO ALL RELEVANT REGULATORY AUTHORITIES ON REQUEST.

1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
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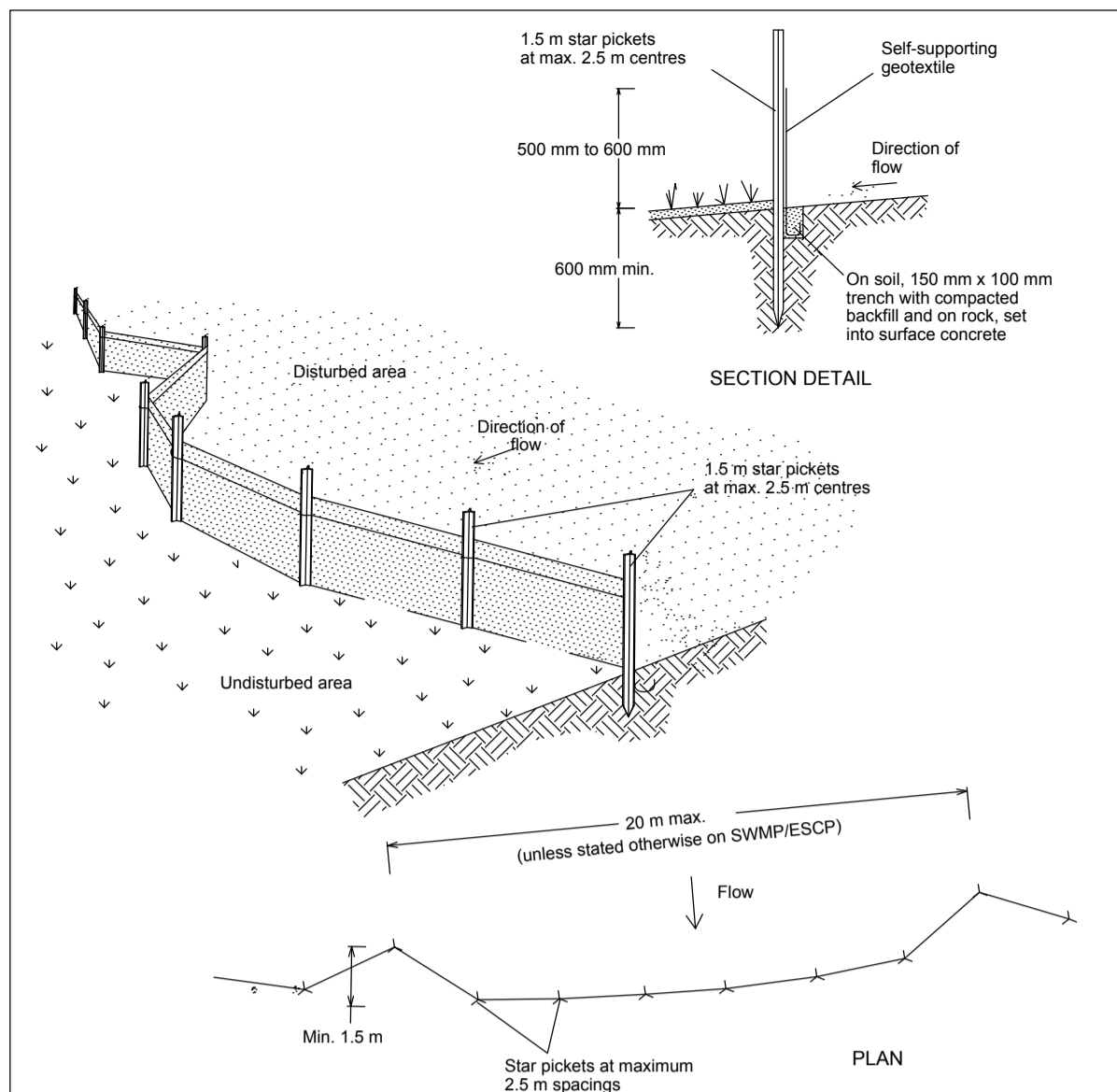


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DESIGN:	M.M				
DRAWN:	M.M				
CHECKED:	M.M				
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION	CROSS SECTION	
APPROVED:	M.M	1:2000 (A1)	HORIZ. 1:500	HORIZ. N/A	
			VERT. 1:100	VERT. N/A	

PROJECT	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWING TITLE	EROSION AND SEDIMENT CONTROL PLAN NOTES
<b>SHEET 112 OF 116 SHEETS</b>	

PROJECT No	AL22077	REVISION	1
DWG No	C12-112	<b>CONSTRUCTION</b>	
		1:2000 (A1)	

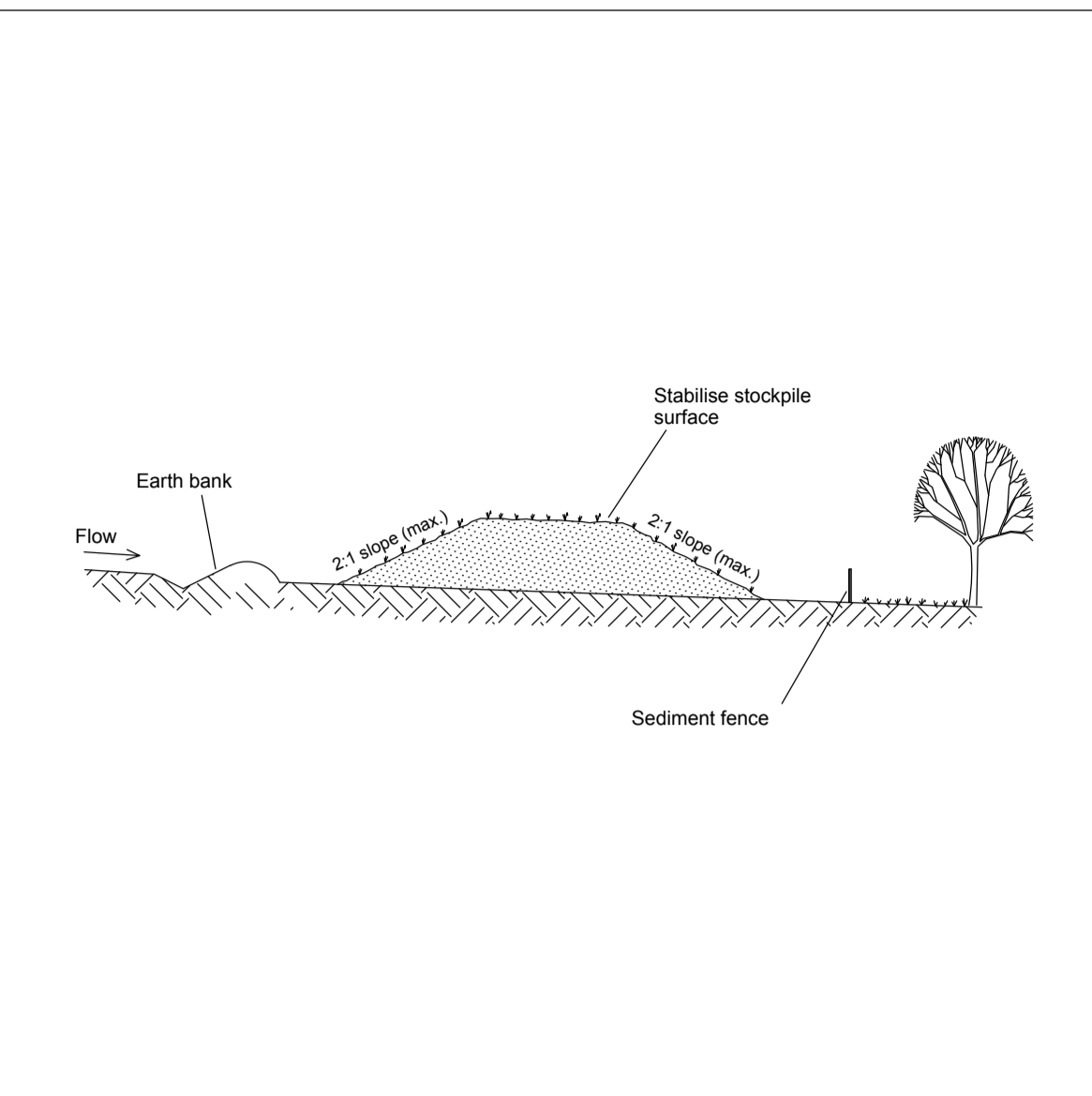


**Construction Notes**

1. Construct sediment fences as close as possible to being parallel to the contours of the site, but with small returns as shown in the drawing to limit the catchment area of any one section. The catchment area should be small enough to limit water flow if concentrated at one point to 50 litres per second in the design storm event, usually the 10-year event.
2. Cut a 150-mm deep trench along the upslope line of the fence for the bottom of the fabric to be entrenched.
3. Drive 1.5 metre long star pickets into ground at 2.5 metre intervals (max) at the downslope edge of the trench. Ensure any star pickets are fitted with safety caps.
4. Fix self-supporting geotextile to the upslope side of the posts ensuring it goes to the base of the trench. Fix the geotextile with wire ties or as recommended by the manufacturer. Only use geotextile specifically produced for sediment fencing. The use of shade cloth for this purpose is not satisfactory.
5. Join sections of fabric at a support post with a 150-mm overlap.
6. Backfill the trench over the base of the fabric and compact it thoroughly over the geotextile.

SEDIMENT FENCE

SD 6-8

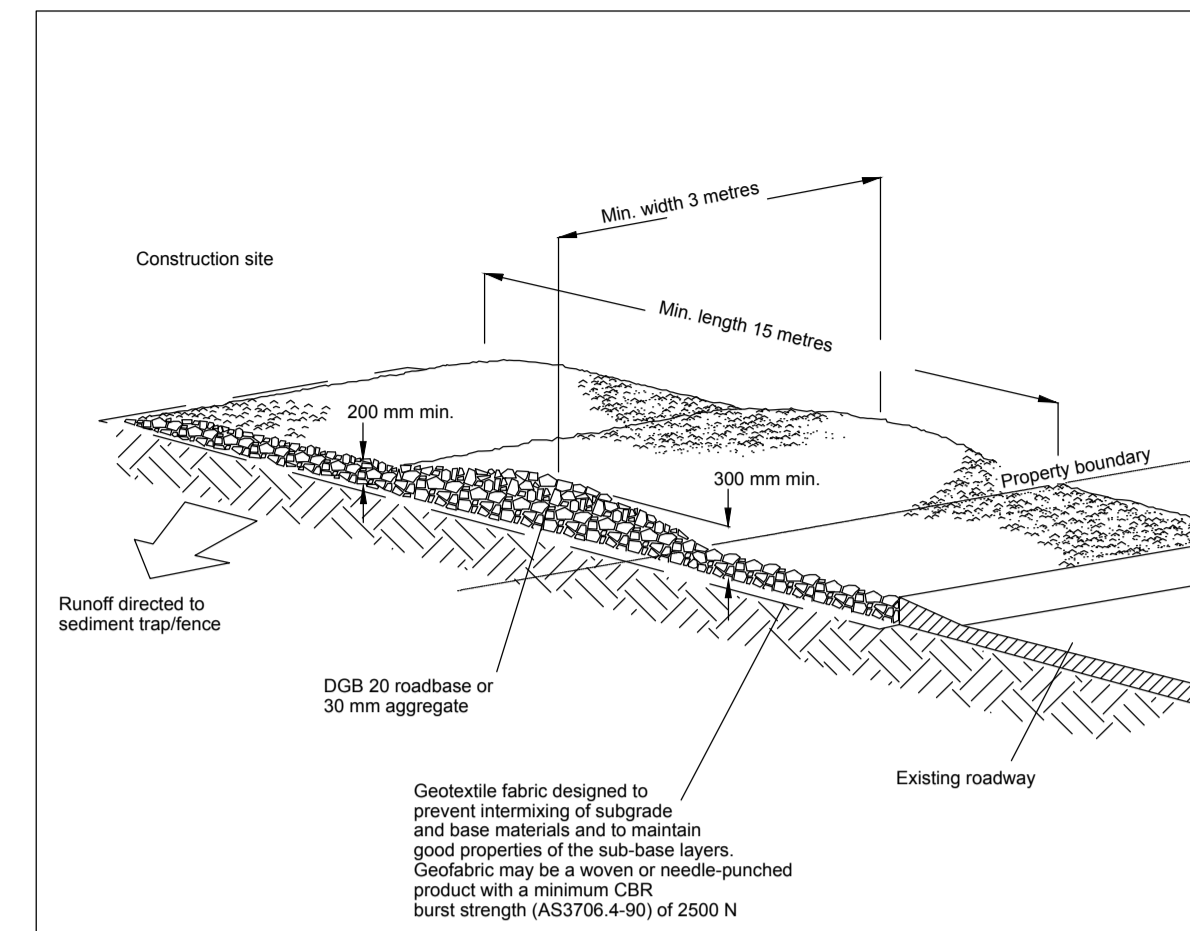


**Construction Notes**

1. Place stockpiles more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas.
2. Construct on the contour as low, flat, elongated mounds.
3. Where there is sufficient area, topsoil stockpiles shall be less than 2 metres in height.
4. Where they are to be in place for more than 10 days, stabilise following the approved ESCP or SWMP to reduce the C-factor to less than 0.10.
5. Construct earth banks (Standard Drawing 5-5) on the upslope side to divert water around stockpiles and sediment fences (Standard Drawing 6-8) 1 to 2 metres downslope.

STOCKPILES

SD 4-1

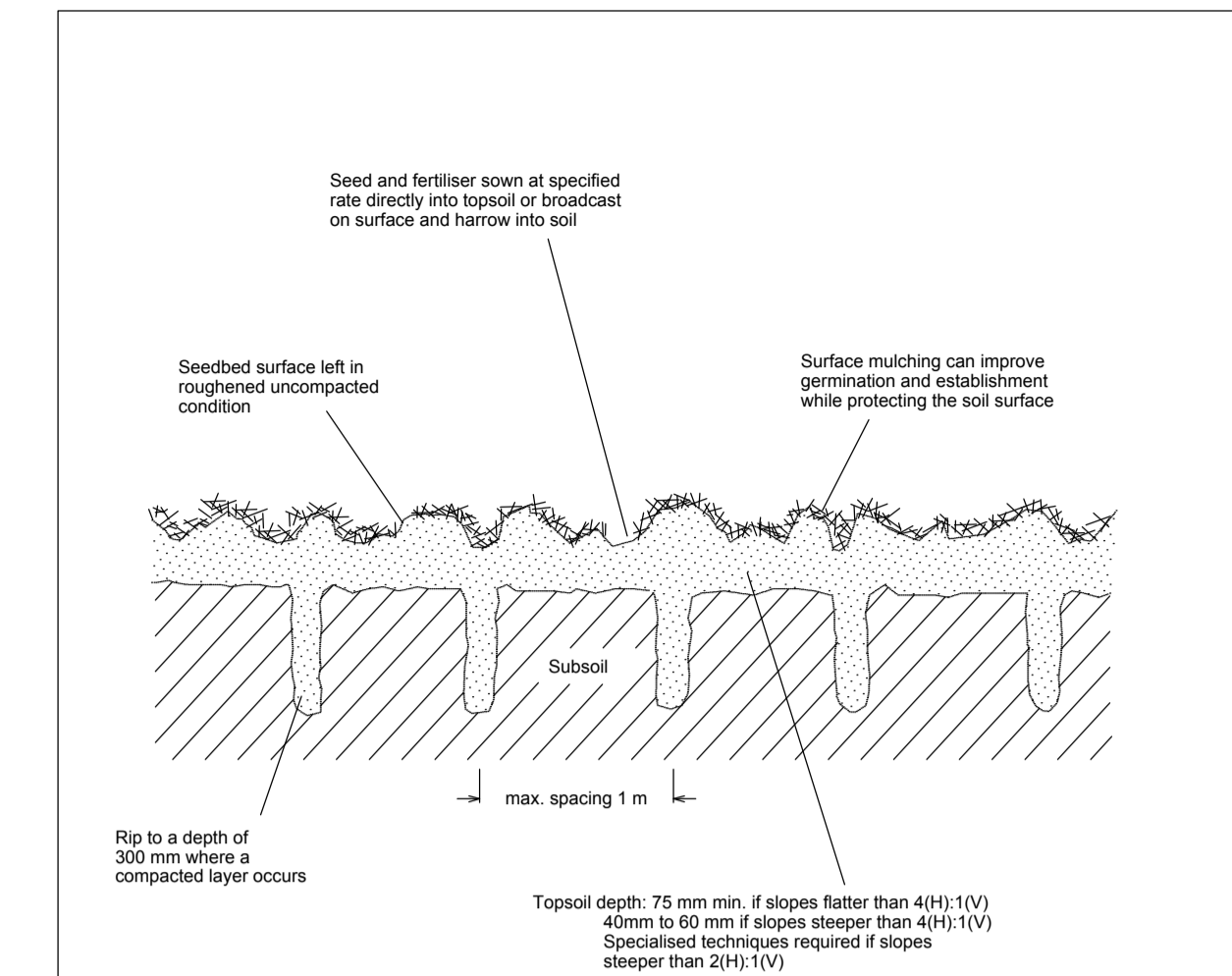


**Construction Notes**

1. Strip the topsoil, level the site and compact the subgrade.
2. Cover the area with needle-punched geotextile.
3. Construct a 200 mm thick pad over the geotextile using road base or 30 mm aggregate.
4. Ensure the structure is at least 15 metres long or to building alignment and at least 3 metres wide.
5. Where a sediment fence joins onto the stabilised access, construct a hump in the stabilised access to divert water to the sediment fence

STABILISED SITE ACCESS

SD 6-14

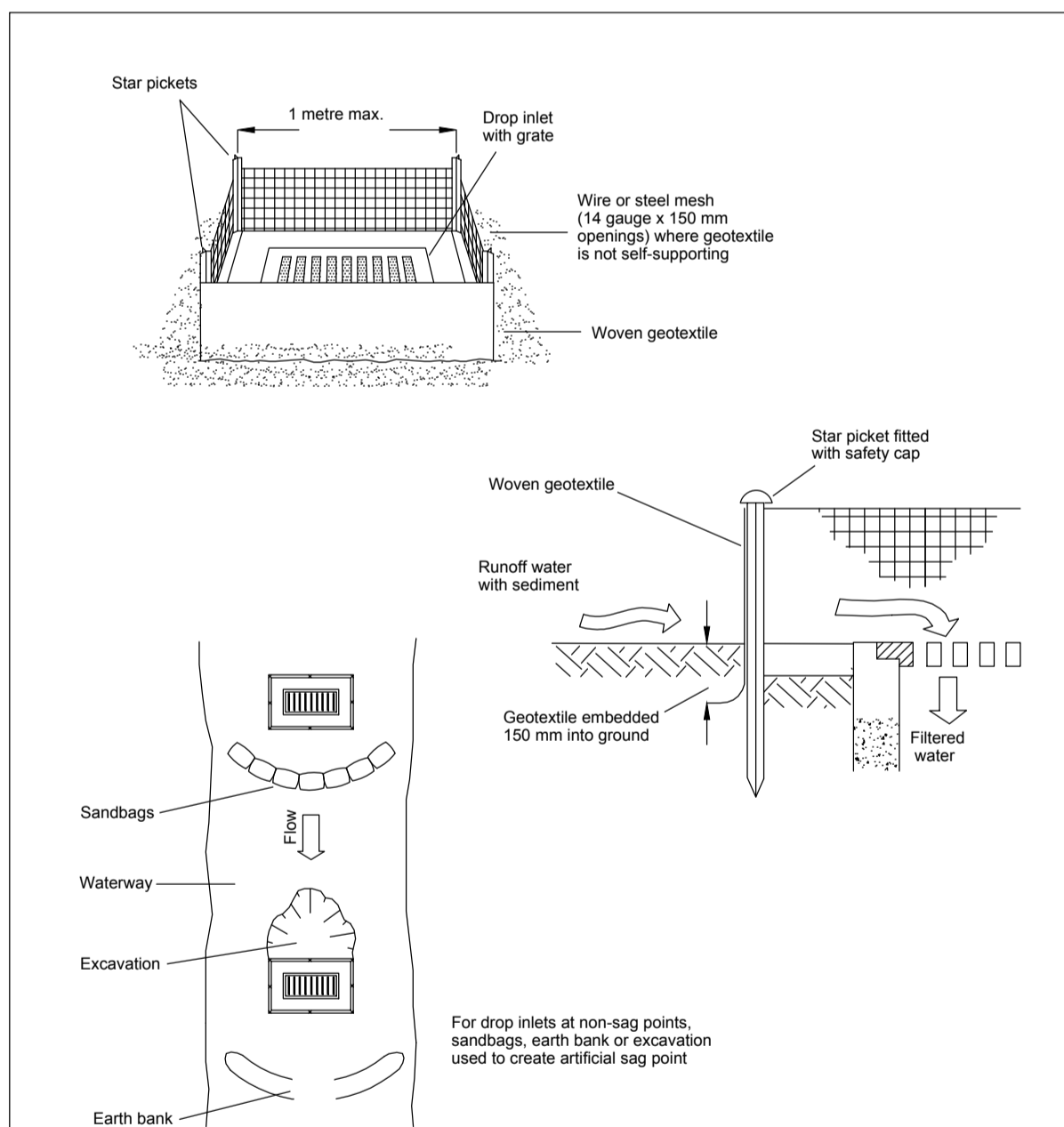


**Construction Notes**

1. Loosen compacted soil before sowing any seed. If necessary, rip the soil to a depth of 300 mm. Avoid rotary hoe cultivation.
2. Work the ground only as much as necessary to achieve the desired tilth and prepare a good seedbed.
3. Avoid cultivation in very wet or very dry conditions.
4. Cultivate on or close to the contour where possible, not up and down the slope.

SEEDBED PREPARATION

SD 7-1

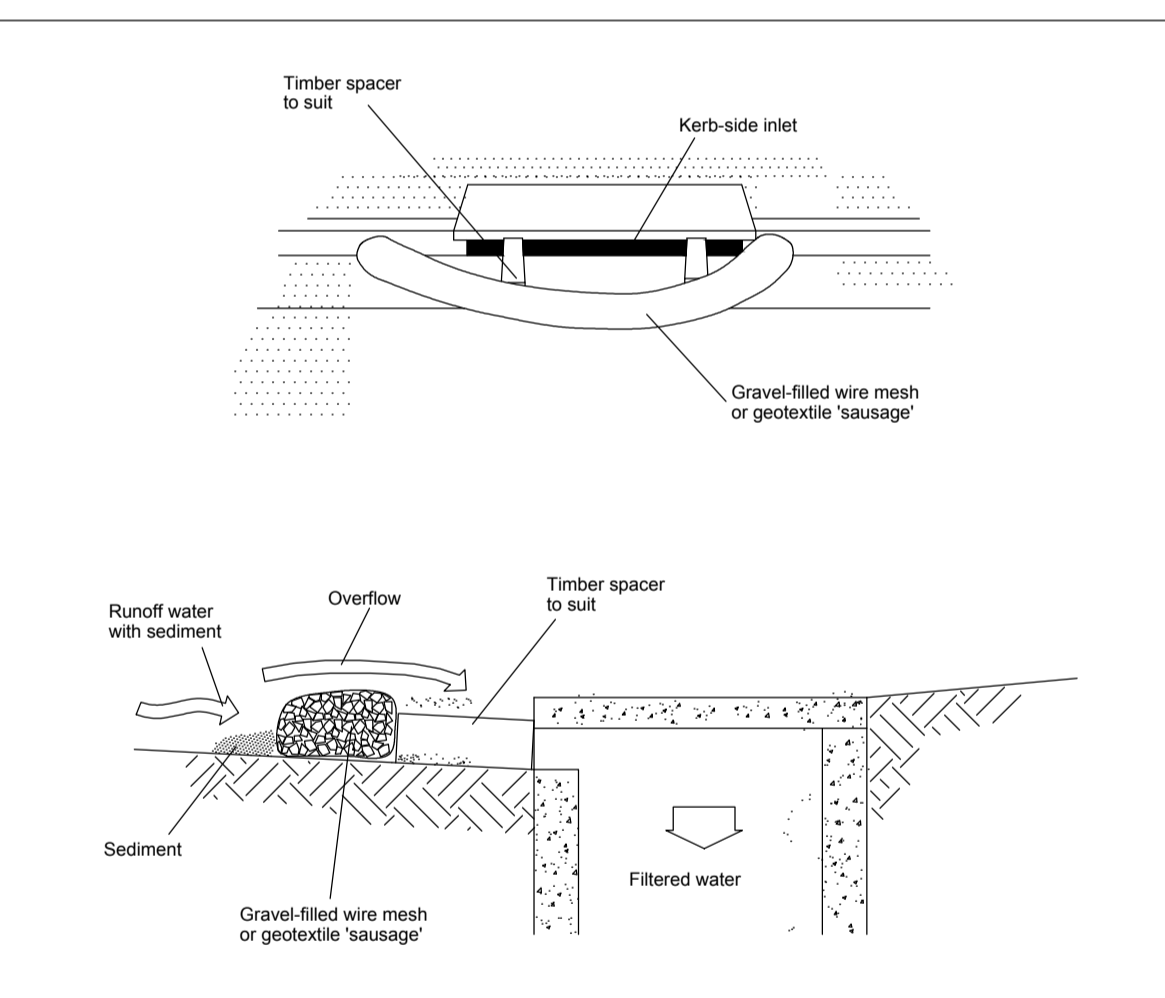


**Construction Notes**

1. Fabricate a sediment barrier made from geotextile or straw bales.
2. Follow Standard Drawing 6-7 and Standard Drawing 6-8 for installation procedures for the straw bales or geofabric. Reduce the picket spacing to 1 metre centres.
3. In waterways, artificial sag points can be created with sandbags or earth banks as shown in the drawing.
4. Do not cover the inlet with geotextile unless the design is adequate to allow for all waters to bypass it.

GEOTEXTILE INLET FILTER

SD 6-12

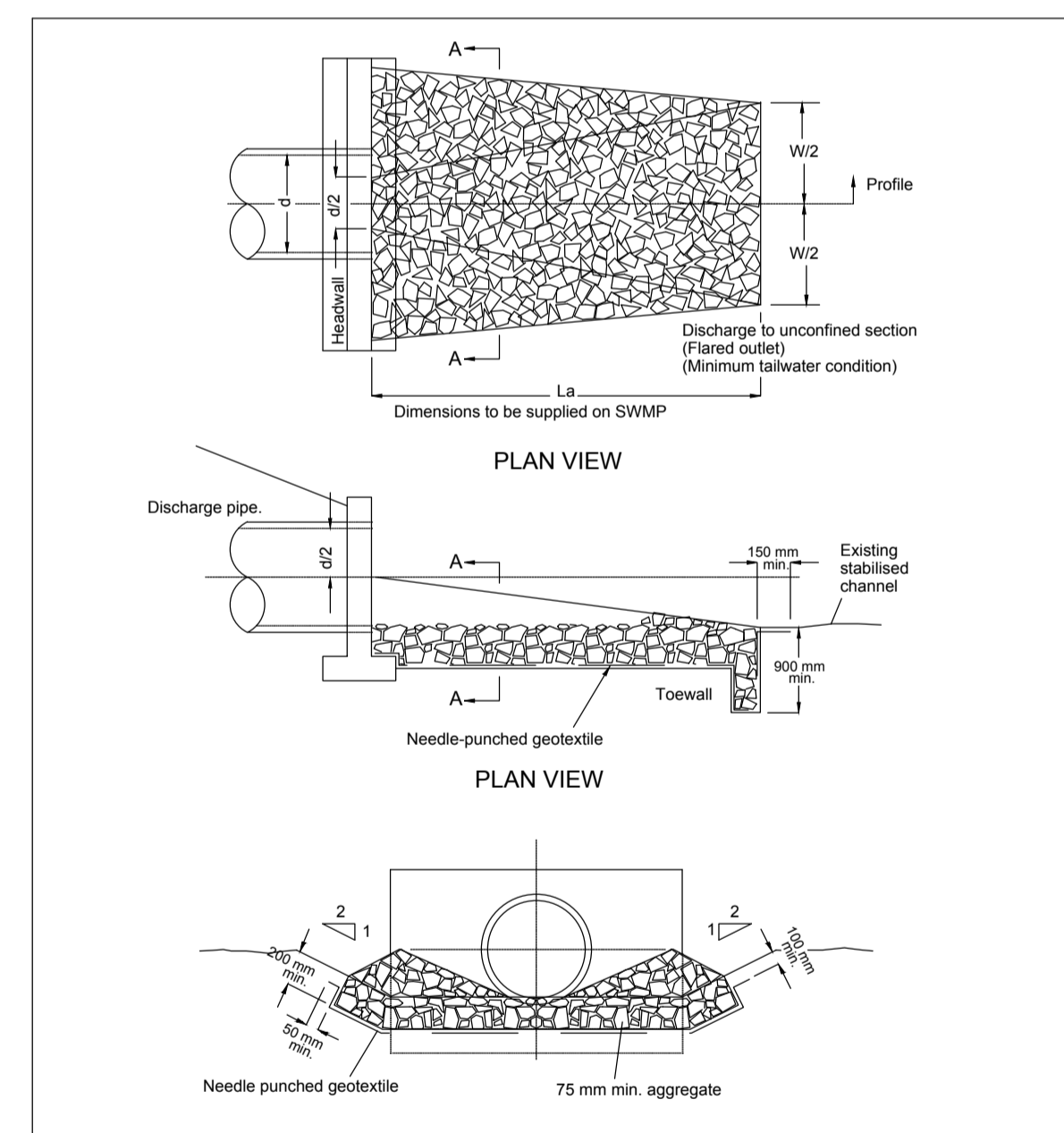


**Construction Notes**

1. Install filters to kerb inlets only at sag points.
2. Fabricate a sleeve made from geotextile or wire mesh longer than the length of the inlet pit and fill it with 25 mm to 50 mm gravel.
3. Form an elliptical cross-section about 150 mm high x 400 mm wide.
4. Place the filter at the opening leaving at least a 100-mm space between it and the kerb inlet. Maintain the opening with spacer blocks.
5. Form a seal with the kerb to prevent sediment bypassing the filter.
6. Sandbags filled with gravel can substitute for the mesh or geotextile providing they are placed so that they firmly abut each other and sediment-laden waters cannot pass between.

MESH AND GRAVEL INLET FILTER

SD 6-11

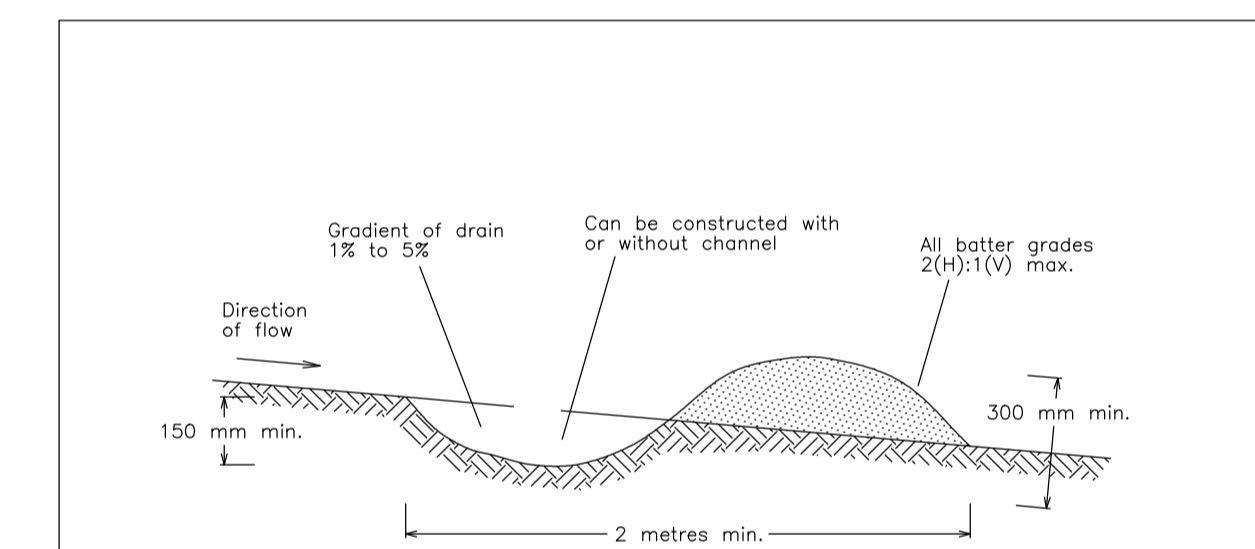


**Construction Notes**

1. Compact the subgrade fill to the density of the surrounding undisturbed material.
2. Prepare a smooth, even foundation for the structure that will ensure that the needle-punched geotextile does not sustain serious damage when covered with rock.
3. Should any minor damage to the geotextile occur, repair it before spreading any aggregate. For repairs, patch one piece of fabric over the damage, making sure that all joints and patches overlap more than 300 mm.
4. Lay rock following the drawing, according to Table 5.2 of Landcom (2004) and with a minimum diameter of 75 mm.
5. Ensure that any concrete or riprap used for the energy dissipater or the outlet protection conforms to the grading limits specified on the SWMP.

ENERGY DISSIPATER

SD 5-8



**Construction Notes**

1. Build with gradients between 1 percent and 5 percent.
2. Avoid removing trees and shrubs if possible - work around them.
3. Ensure the structures are free of projections or other irregularities that could impede water flow.
4. Build the drains with circular, parabolic or trapezoidal cross sections, not V shaped.
5. Ensure the banks are properly compacted to prevent failure.
6. Complete permanent or temporary stabilisation within 10 days of construction.

EARTH BANK (LOW FLOW)

SD 5-5

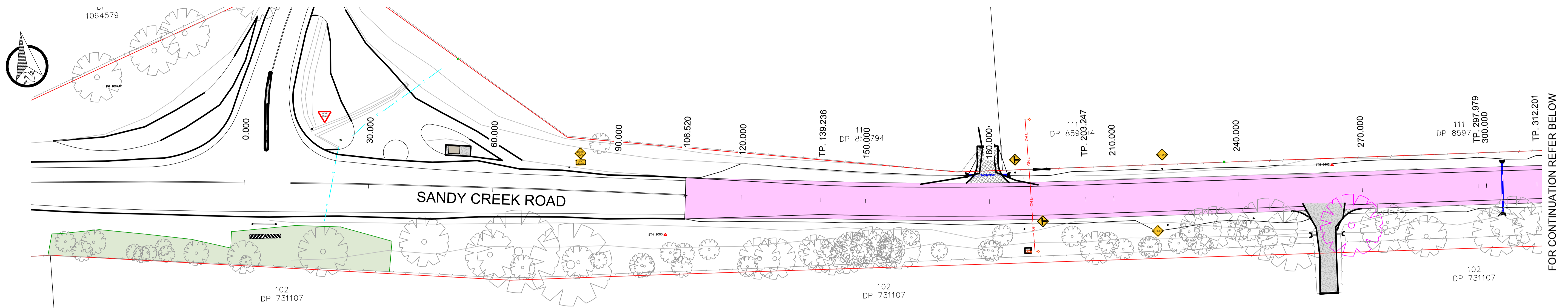
REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
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SURVEY:	DELFS LASCELLES	CLIENT	CESSNOCK CITY COUNCIL	
DESIGN:	M.M	PROJECT	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG	
DRAWN:	M.M	DRAWING TITLE	EROSION AND SEDIMENT CONTROL PLAN DETAILS	
CHECKED:	M.M	SHEET	113 OF 116 SHEETS	
DATE:	11.08.2023	PLAN:	LONGITUDINAL SECTION	CROSS SECTION
APPROVED:	M.M	1:2000 (A1)	HORIZ. 1:500 VERT. 1:100	HORIZ. N/A VERT. N/A

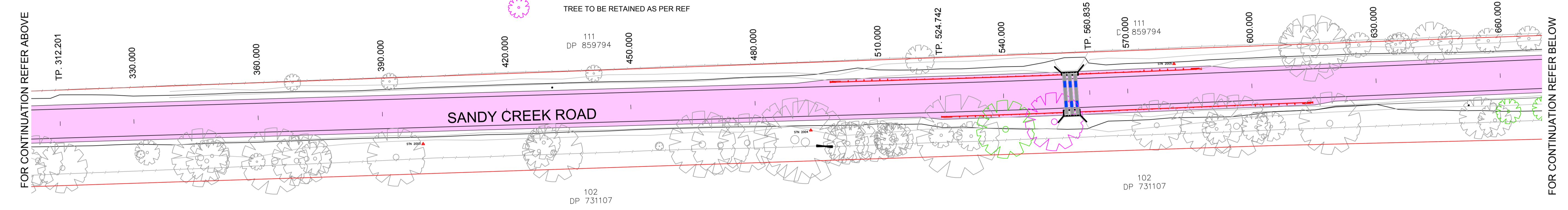
PROJECT No AL22077  
 DWG No C12-113  
**CONSTRUCTION**  
 SHEET 113 OF 116 SHEETS

PROJECT No	AL22077	REVISION	1
DWG No	C12-113		

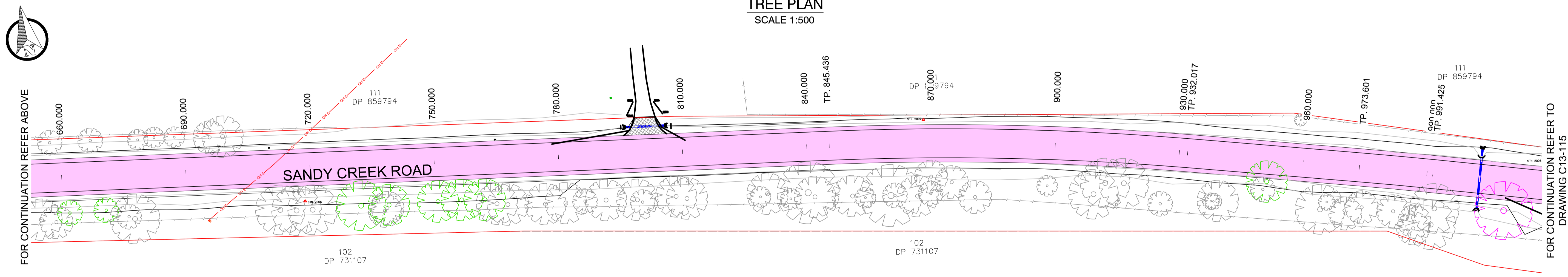


**TREE PLAN**  
SCALE 1:500

- LEGEND**
- EXISTING TREE
  - TREE TO BE REMOVED
  - TREE TO BE RETAINED AS PER REF



**TREE PLAN**  
SCALE 1:500



**TREE PLAN**  
SCALE 1:500



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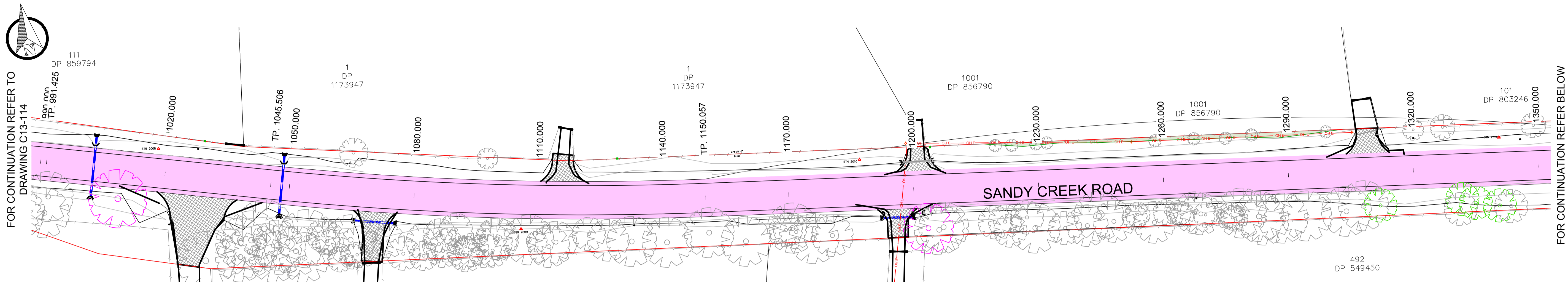
SURVEY:	DELFS LASCELLES
DESIGN:	M.M
DRAWN:	M.M
CHECKED:	M.M
DATE:	11.08.2023
APPROVED:	M.M

CLIENT	CESSNOCK CITY COUNCIL
PLAN:	LONGITUDINAL SECTION HORIZ. 1:500 VERT. 1:100
CROSS SECTION	HORIZ. N/A VERT. N/A

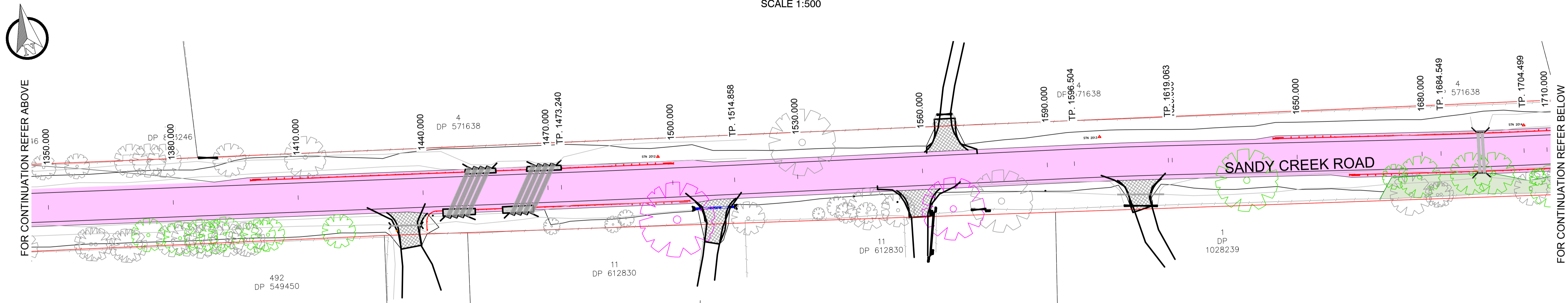
PROJECT	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWING TITLE	TREE PLAN SHEET 01 OF 03
SHEET 114 OF 116 SHEETS	

PROJECT No	AL22077	REVISION	1
DWG No	C13-114		
<b>CONSTRUCTION</b>			
10 5 0 10 20 30 1:500 (A1)			

REV	REVISION DETAILS	ISSUED BY	DATE
1	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
A	PRELIMINARY ISSUE	M.M	11.08.23



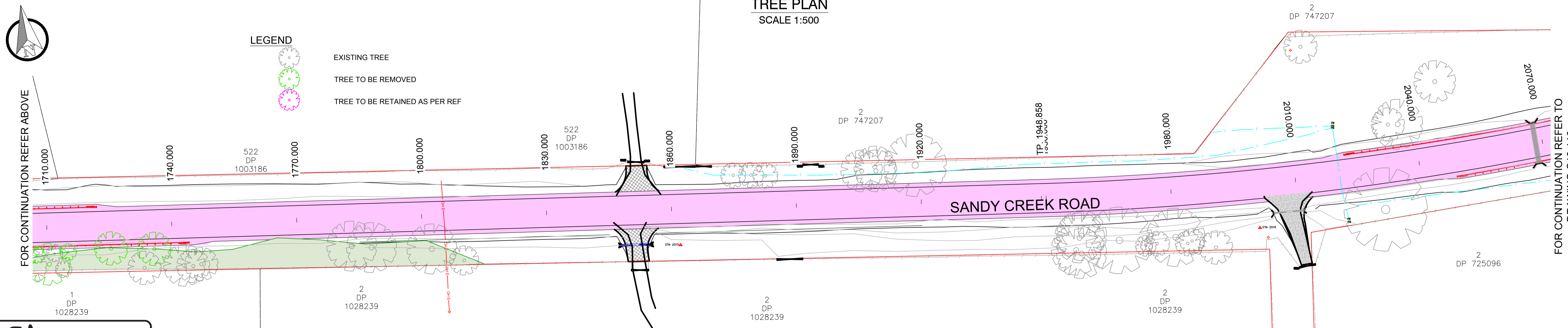
TREE PLAN  
SCALE 1:500



TREE PLAN  
SCALE 1:500

**LEGEND**

- EXISTING TREE
- TREE TO BE REMOVED
- TREE TO BE RETAINED AS PER REF



TREE PLAN  
SCALE 1:500



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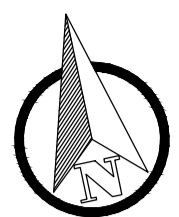
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DESIGN:	M.M	PROJECT:	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG	
DRAWN:	M.M	DRAWING TITLE:	TREE PLAN SHEET 02 OF 03	
CHECKED:	M.M	DATE:	11.08.2023	APPROVED:
DATE:	11.08.2023	PLAN:	1:500 (A1)	CROSS SECTION:
APPROVED:	M.M	HORIZ.:	1:500	HORIZ.:
		VERT.:	1:100	VERT.:

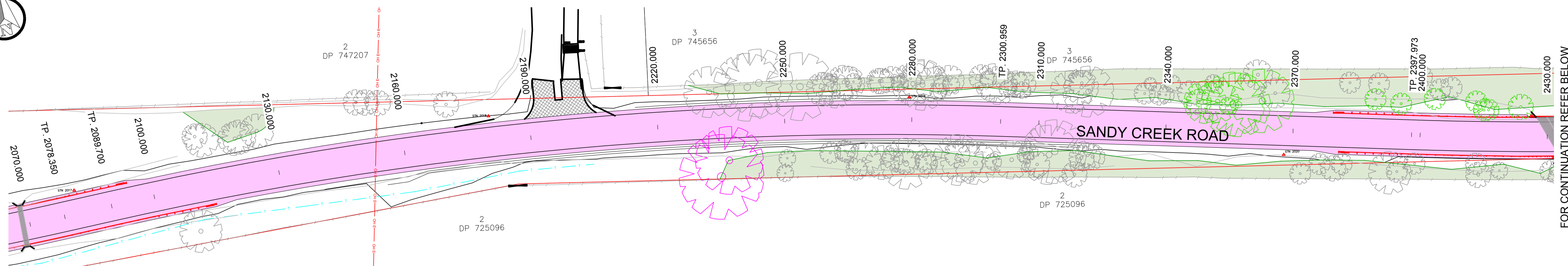
PROJECT No:	AL22077	REVISION:	1
DWG No:	C13-115		
<b>CONSTRUCTION</b>			
SHEET 115 OF 116 SHEETS			

PROJECT No	AL22077	REVISION	1
DWG No	C13-115		
<b>CONSTRUCTION</b>			
SHEET 115 OF 116 SHEETS			

REV	ISSUE FOR CONSTRUCTION - AMENDED VERTICAL	M.M	12.09.23
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A	PRELIMINARY ISSUE	M.M	11.08.23
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FOR CONTINUATION REFER TO DRAWING C13-115

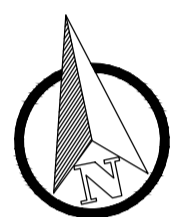


FOR CONTINUATION REFER BELOW

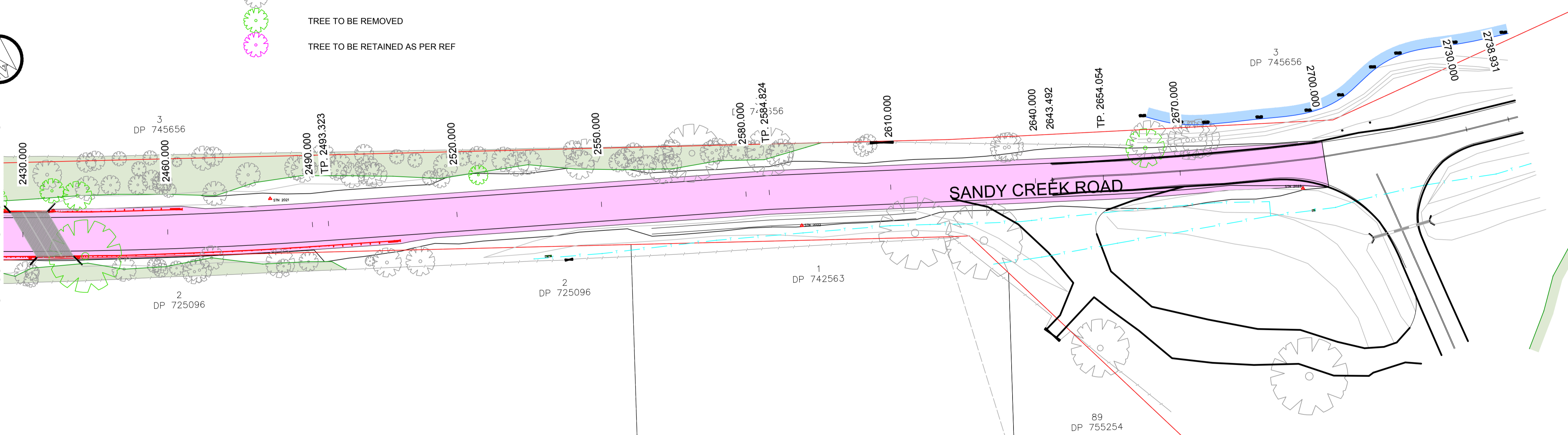
TREE PLAN  
SCALE 1:500

LEGEND

-  EXISTING TREE
-  TREE TO BE REMOVED
-  TREE TO BE RETAINED AS PER REF



FOR CONTINUATION REFER ABOVE



TREE PLAN  
SCALE 1:500



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CLIENT	CESSNOCK CITY COUNCIL
PLAN:	1:500 (A1)
LONGITUDINAL SECTION	HORIZ. 1:500 VERT. 1:100
CROSS SECTION	HORIZ. N/A VERT. N/A

PROJECT	LOCAL ROAD RENEWAL STAGE 1 & STAGE 2 SANDY CREEK ROAD, QUORROBOLONG
DRAWING TITLE	TREE PLAN SHEET 03 OF 03
SHEET	116 OF 116 SHEETS

PROJECT No	AL22077	REVISION	1
DWG No	C13-116		
<b>CONSTRUCTION</b>			
10 5 0 10 20 30 1:500 (A1)			

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0	ISSUE FOR CONSTRUCTION	M.M	21.08.23
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