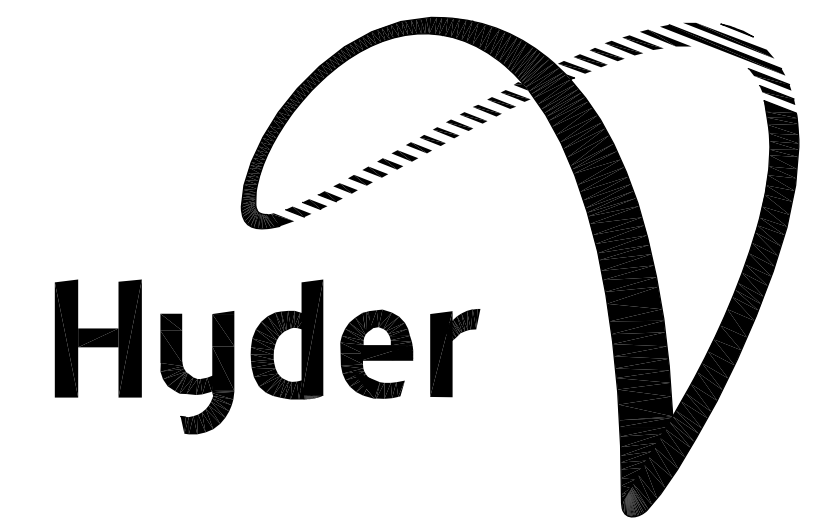

PLAN SET 2 – Engineering Design Drawings

BOWMANS CREEK DIVERSION FOR ASHTON COAL



GENERAL

- C000 TITLE SHEET, NOTES AND LEGEND
- C001 OVERALL SITE PLAN
- C002 GEO-SYNTHETIC LINER INSTALLATION DETAILS

EASTERN DIVERSION

- C004 EASTERN DIVERSION BULK EARTHWORKS PLAN
- C005 EASTERN DIVERSION SITEWORKS PLAN
- C006 EASTERN DIVERSION SETOUT PLAN
- C007 EASTERN DIVERSION LONGITUDINAL SECTION
- C008 EASTERN DIVERSION CROSS SECTIONS - SHEET 1
- C009 EASTERN DIVERSION CROSS SECTIONS - SHEET 2
- C010 EASTERN DIVERSION CROSS SECTIONS - SHEET 3
- C011 EASTERN DIVERSION CROSS SECTIONS - SHEET 4
- C012 EASTERN DIVERSION CROSS SECTIONS - SHEET 5
- C013 EASTERN DIVERSION CROSS SECTIONS - SHEET 6
- C016 EASTERN DIVERSION BLOCK BANK E1 PLAN & DETAILS
- C017 EASTERN DIVERSION BLOCK BANK E2 PLAN & DETAILS

WESTERN DIVERSION

- C024 WESTERN DIVERSION BULK EARTHWORKS PLAN
- C025 WESTERN DIVERSION SITEWORKS PLAN
- C026 WESTERN DIVERSION SETOUT PLAN
- C027 WESTERN DIVERSION LONGITUDINAL SECTION
- C028 WESTERN DIVERSION CROSS SECTIONS - SHEET 1
- C029 WESTERN DIVERSION CROSS SECTIONS - SHEET 2
- C030 WESTERN DIVERSION CROSS SECTIONS - SHEET 3
- C033 WESTERN DIVERSION BLOCK BANK W1 PLAN & DETAILS
- C034 WESTERN DIVERSION BLOCK BANK W2 PLAN & DETAILS

BULK EARTHWORKS

- C040 BULK EARTHWORKS TYPICAL HAULAGE PLAN

SEDIMENTATION

- C045 EASTERN DIVERSION SEDIMENTATION AND EROSION CONTROL PLAN
- C046 WESTERN DIVERSION SEDIMENTATION AND EROSION CONTROL PLAN
- C047 SEDIMENTATION AND EROSION CONTROL DETAILS

EROSION AND SEDIMENT CONTROL

NOTES

GENERAL INSTRUCTIONS

1. THE SITE SUPERINTENDENT/ENGINEER WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED.
2. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH
 - a. LOCAL AUTHORITY REQUIREMENTS
 - b. EPA REQUIREMENTS
 - c. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004.
3. MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
4. WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS.
5. CONTRACTOR IS TO ENSURE ALL EROSION & SEDIMENT CONTROL DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE EFFECTIVELY. REPAIRS AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.

LAND DISTURBANCE

6. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:
 - (A) INSTALL A WIND FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
 - (B) INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
 - (C) CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.
 - (D) INSTALL SEDIMENT BASIN AS SHOWN ON PLAN.
 - (E) INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.
 - (F) UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. WHERE POSSIBLE, PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.

EROSION CONTROL

7. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
8. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

GEOSYNTHETIC CLAY LINER INSTALLATION NOTES

1. ELCOSEAL GRADE XXXX FROM GEOFABRICS AUSTRALASIA PTY LTD SHALL BE USED UNLESS AN EQUIVALENT PRODUCT IS APPROVED BY HYDER CONSULTING PTY LTD.
2. THE ELCOSEAL LINER SHALL BE INSTALLED BY EXPERIENCED PERSONNEL STRICTLY IN ACCORDANCE WITH THE SUPPLIER'S INSTALLATION GUIDELINES.
3. THE EXCAVATED GROUND SHALL BE GRADED SMOOTH AND ALL ROCKS, CLODS AND VEGETATION REMOVED.
4. EXCAVATE FOR ANCHOR TRENCH IN ACCORDANCE WITH SUPPLIER'S GUIDELINES.
5. LAY 200mm OF FINE GRAINED SOIL'S SUCH AS SILTY OR SANDY CLAYS SOURCED FROM SITE EXCAVATION.
6. STARTING AT THE LOWEST END SO THAT LINER JOINTS FACE AWAY FROM THE FLOW OF WATER. ANCHOR END OF LINER IN ANCHOR TRENCH AND ROLL INTO EXCAVATIONS.
7. SEAL JOINTS IN ACCORDANCE WITH SUPPLIER'S GUIDELINE'S.
8. PLACE ANOTHER 200mm LAYER OF FINE GRAINED SOILS OVER THE LINER FOLLOWED BY A SUITABLE GEOFABRIC SUCH AS BIDIM A29. THE GEOFABRIC SHALL BE 'PINNED' IN PLACE AT A SUITABLE FREQUENCY TO PREVENT DISPLACEMENT OF THE FABRIC DURING STREAM BED PLACEMENT.

SEDIMENT CONTROL

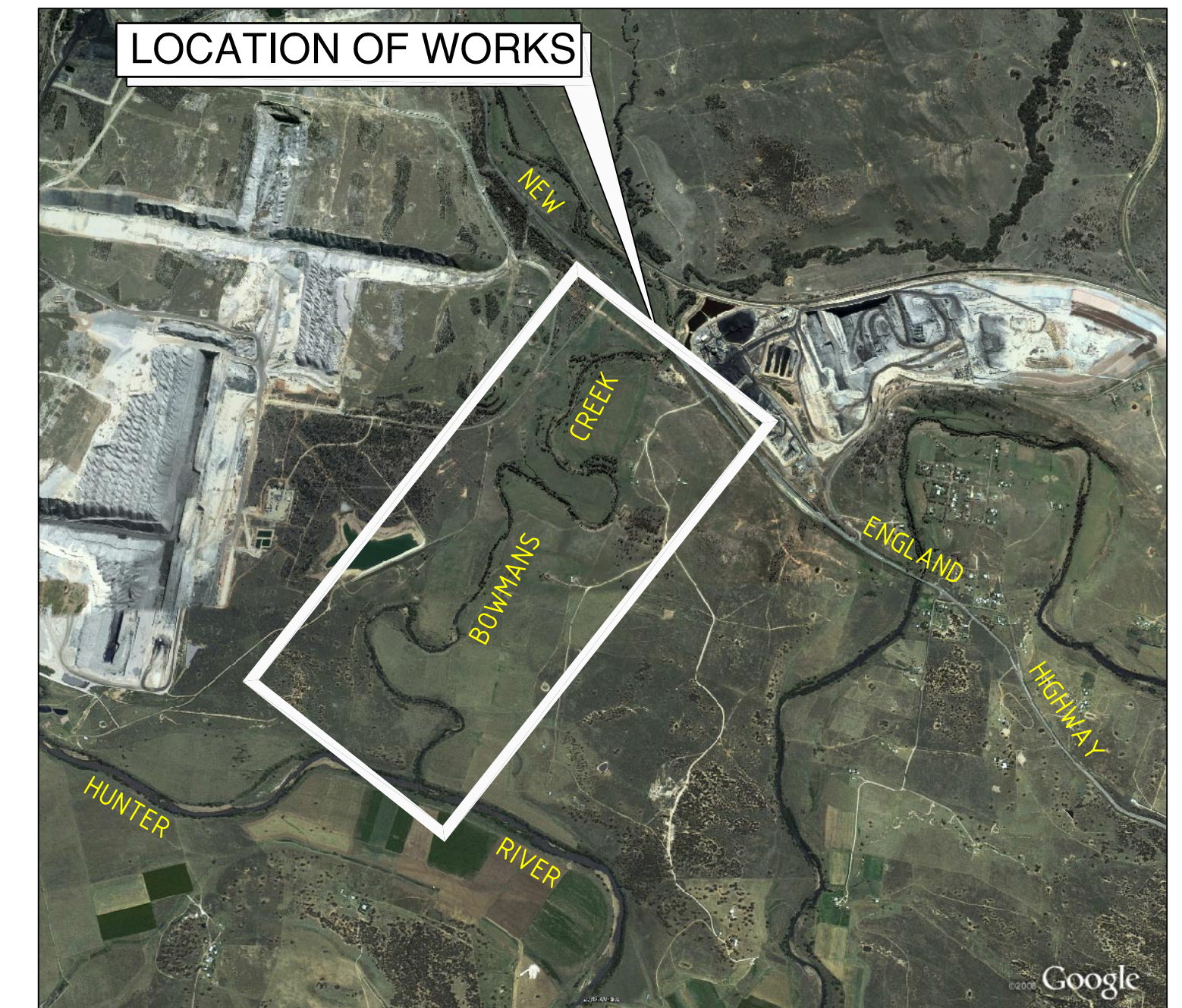
9. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.
10. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.
11. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
12. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

OTHER MATTERS

13. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
14. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
 - (A) PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE
 - (B) ENSURING THAT NOTHING IS NAILED TO THEM
 - (C) PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS.
 - (i) ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 15 METRES OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICH EVER IS THE GREATER
 - (ii) A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (E.G. A GRAVEL BED) IS PLACED UNDER ALL FILL LAYERS OF MORE THAN 300 MILLIMETRES DEPTH
 - (iii) CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.

SITEWORKS NOTES

1. ORIGIN OF LEVELS-- REFER SURVEY NOTES.
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO HYDER CONSULTING.
3. MAKE SMOOTH CONNECTION WITH EXISTING WORKS.



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LOCALITY PLAN N.T.S

BULK EARTHWORKS NOTES

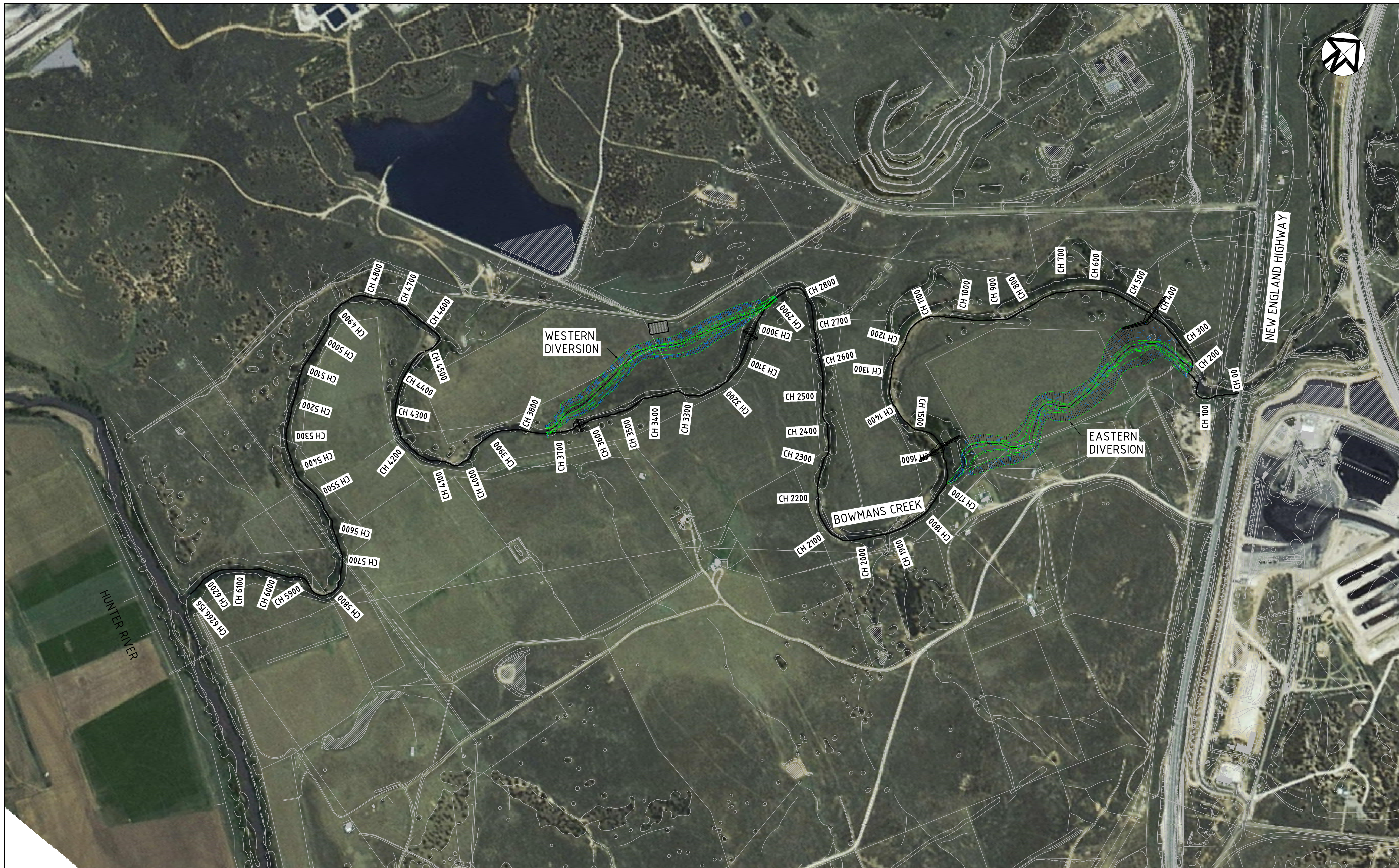
1. ORIGIN OF LEVELS: REFER SURVEY NOTES
2. STRIP ALL TOPSOIL/ORGANIC MATERIAL FROM CONSTRUCTION AREA AND REMOVE FROM SITE OR STOCK PILE AS DIRECTED BY SUPERINTENDENT.
3. EXCAVATED MATERIAL TO BE USED AS STOCKPILE IN DESIGNATED LOCATIONS PROVIDED THE PLACEMENT MOISTURE CONTENT OF THE MATERIAL IS +/- 2% OF THE OPTIMUM MOISTURE CONTENT.
4. COMPACT FILL STOCKPILES TO NOT LESS THAN:

LOCATION	STANDARD DRY DENSITY (AS 1289 E 5.1.1)
FILL STOCKPILES	95%
5. FILLING TO BE PLACED AND COMPACTED IN MAXIMUM 150mm LAYERS

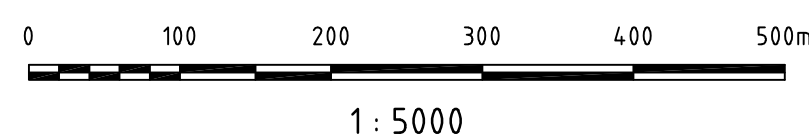
SURVEY NOTES

- THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN BASED ON SURVEY PROVIDED BY ASHTON COAL OPERATIONS PTY LIMITED. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. HYDER CONSULTING DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.
- SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT HYDER CONSULTING.
- THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM THE ORIGINAL SURVEY DOCUMENTS.

	ASHTON COAL	Client	FOR APPROVAL	Project	BOWMANS CREEK CAMBERWELL	HYDER CONSULTING PTY LTD ABN 76 104 485 289 Level 5, 141 Walker St North Sydney NSW 2060 Australia Tel: +61 (0)2 8907 9000 Fax: +61 (0)2 8907 9001 www.hyderconsulting.com © Copyright reserved																		
			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Original Size</td> <td style="text-align: center;">A1</td> <td>Designed</td> <td></td> </tr> <tr> <td>Height Datum</td> <td style="text-align: center;">AHD</td> <td>Checked</td> <td></td> </tr> <tr> <td>Grid</td> <td></td> <td>Approved</td> <td></td> </tr> </table>	Original Size	A1	Designed		Height Datum	AHD	Checked		Grid		Approved		Title	TITLE SHEET, NOTES AND LEGEND	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Drawing No.</td> <td>Project No.</td> <td>Issue</td> </tr> <tr> <td style="text-align: center;">C000</td> <td style="text-align: center;">AA002659</td> <td style="text-align: center;">P1</td> </tr> </table>	Drawing No.	Project No.	Issue	C000	AA002659	P1
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Height Datum	AHD	Checked																						
Grid		Approved																						
Drawing No.	Project No.	Issue																						
C000	AA002659	P1																						
P1	ISSUE FOR REVIEW	06-10-09																						
Issue	Description	Date																						



P1	ISSUE FOR REVIEW	06-10-09
Issue	Description	Date



Client	ASHTON COAL
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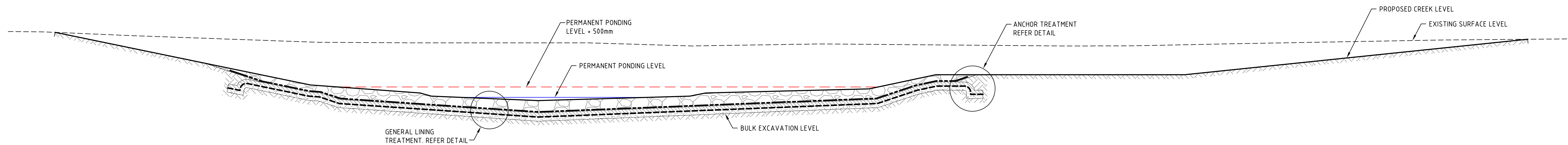
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Project	BOWMANS CREEK CAMBERWELL
Title	OVERALL SITE PLAN

HYDER CONSULTING PTY LTD
 ABN 76 104 485 289
 Level 5, 141 Walker St
 North Sydney NSW 2060
 Australia
 Tel: +61 (0)2 8907 9000
 Fax: +61 (0)2 8907 9001
 www.hyderconsulting.com
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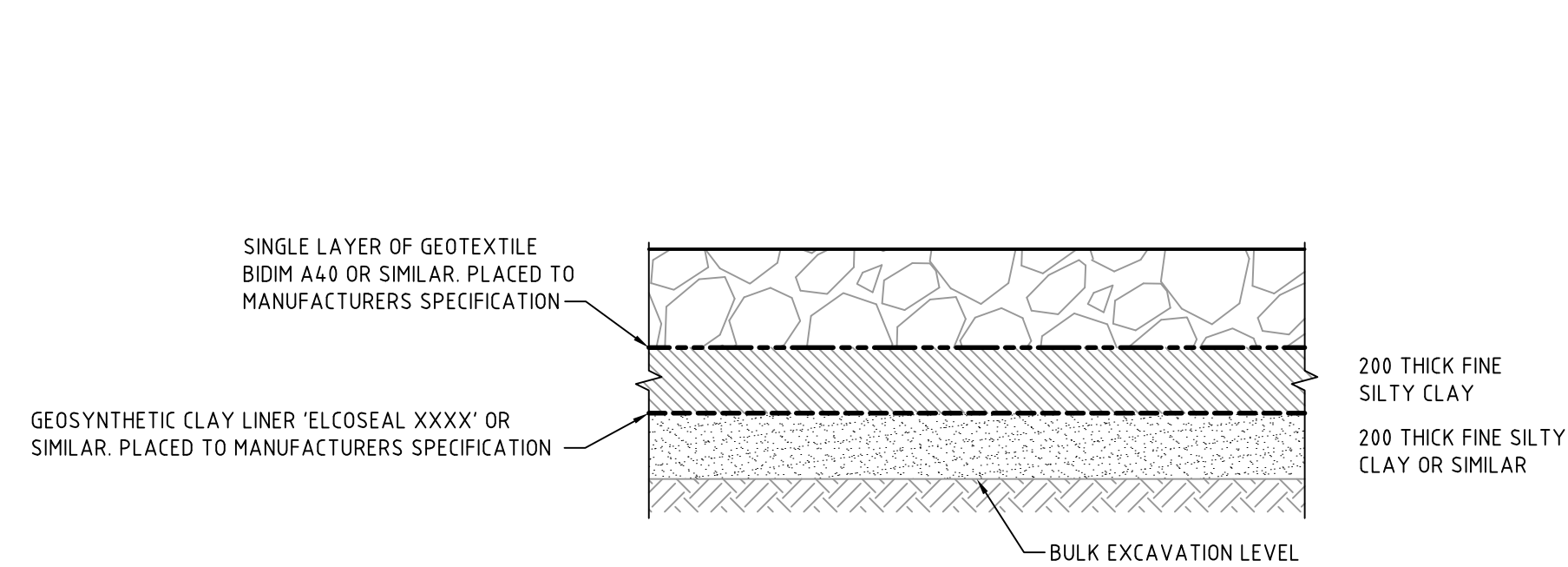
Hyder

Drawing No.	Project No.	Issue
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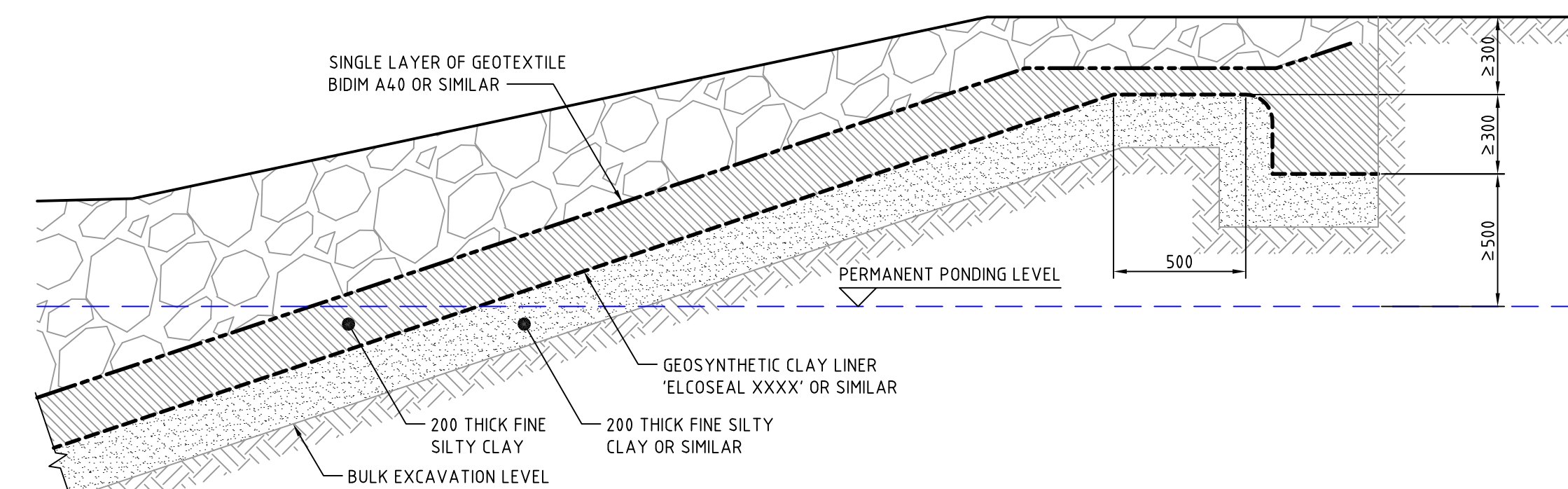
EASTERN DIVERSION TYPICAL BULK EARTHWORKS SECTION

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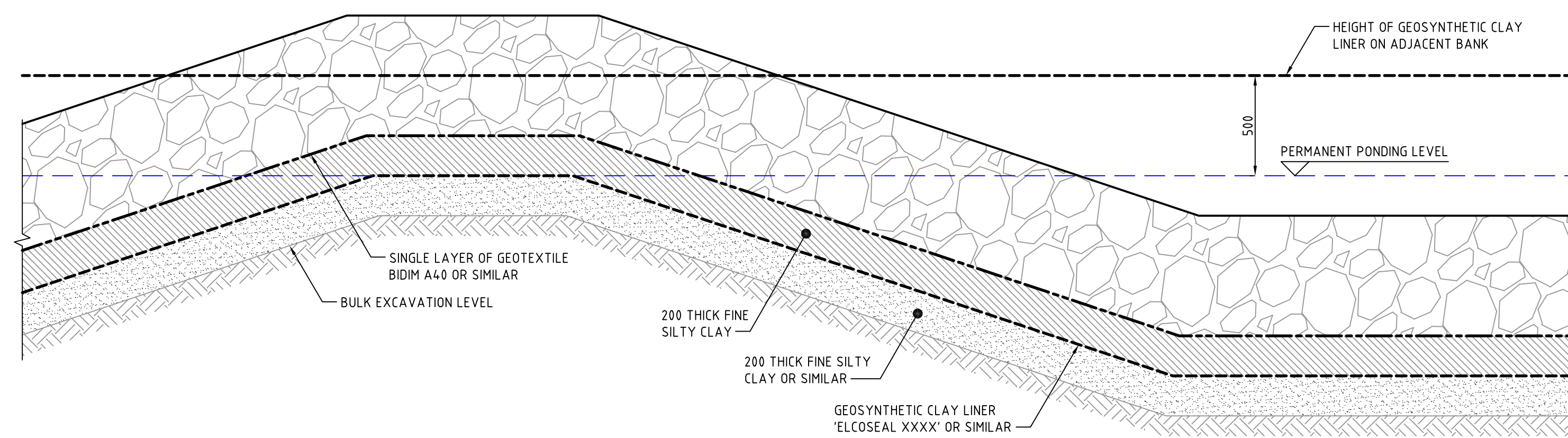
GENERAL LINING TREATMENT DETAIL

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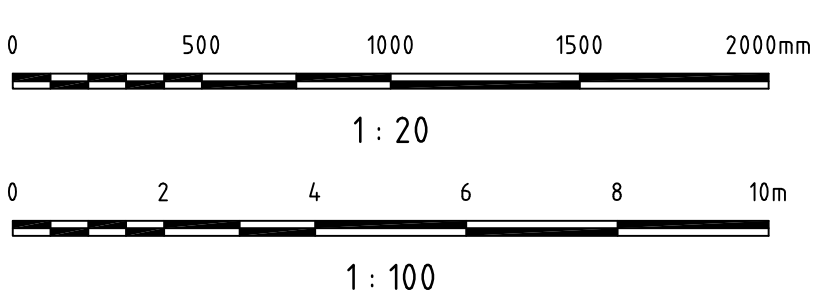
ANCHOR TREATMENT DETAIL

1 : 20



PONDING WEIR TREATMENT DETAIL

1 : 20




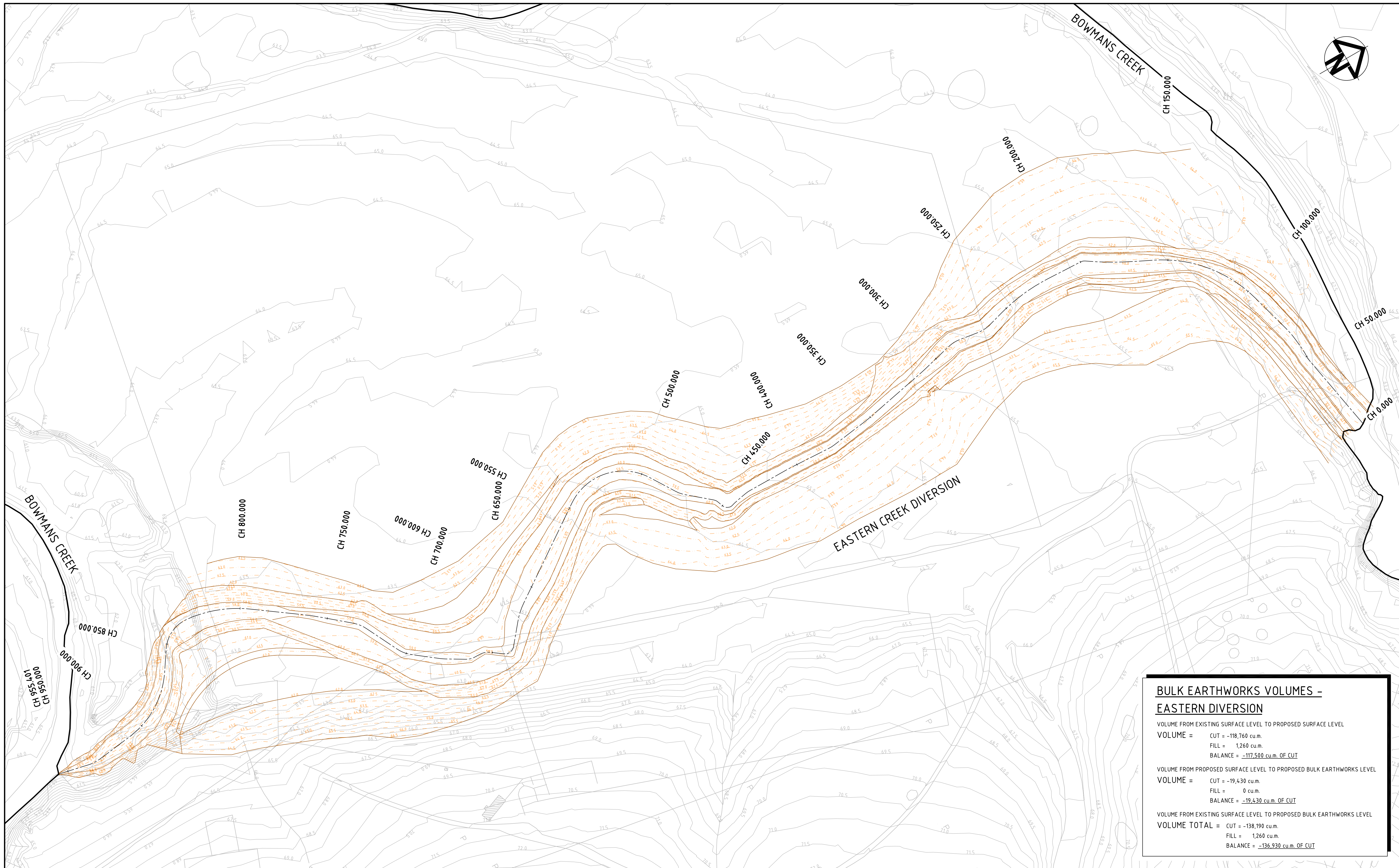
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Issue	Description	Date

Client	ASHTON COAL
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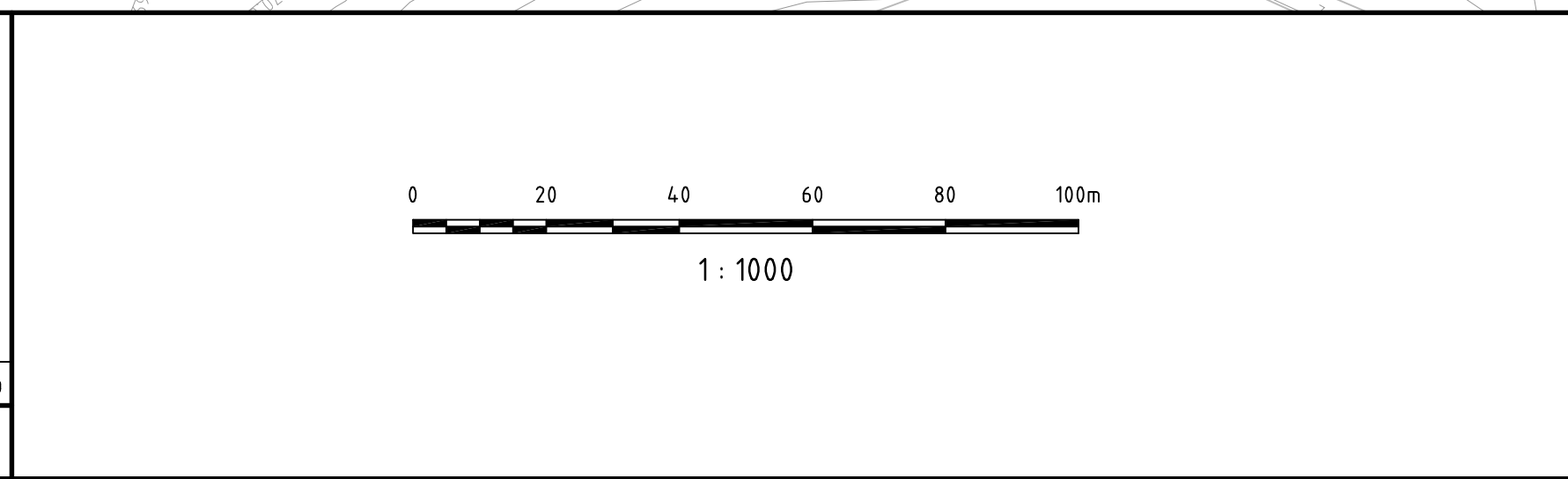
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Title	GEO-SYNTHETIC LINER INSTALLATION DETAILS

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Drawing No.	Project No.	Issue
C002	AA002659	P1



BULK EARTHWORKS VOLUMES - EASTERN DIVERSION	
VOLUME FROM EXISTING SURFACE LEVEL TO PROPOSED SURFACE LEVEL	
VOLUME =	CUT = -118,760 cu.m. FILL = 1,260 cu.m. BALANCE = -117,500 cu.m. OF CUT
VOLUME FROM PROPOSED SURFACE LEVEL TO PROPOSED BULK EARTHWORKS LEVEL	
VOLUME =	CUT = -19,430 cu.m. FILL = 0 cu.m. BALANCE = -19,430 cu.m. OF CUT
VOLUME FROM EXISTING SURFACE LEVEL TO PROPOSED BULK EARTHWORKS LEVEL	
VOLUME TOTAL =	CUT = -138,190 cu.m. FILL = 1,260 cu.m. BALANCE = -136,930 cu.m. OF CUT

P1	ISSUE FOR REVIEW	06-10-09
Issue	Description	Date



Client	ASHTON COAL
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		Approved
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Project	BOWMANS CREEK CAMBERWELL
Title	EASTERN DIVERSION BULK EARTHWORKS PLAN

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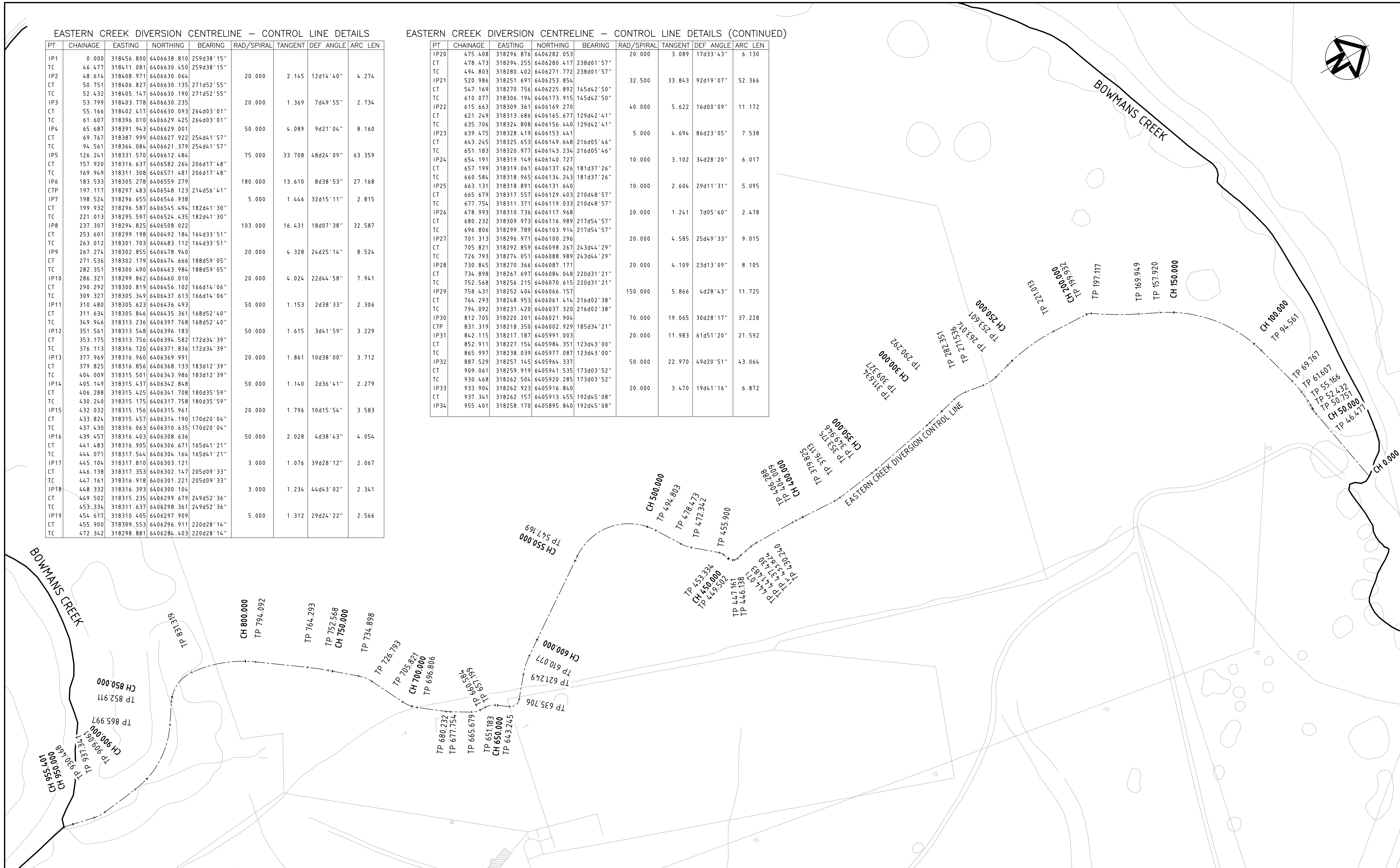
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EASTERN CREEK DIVERSION CENTRELINE – CONTROL LINE DETAILS

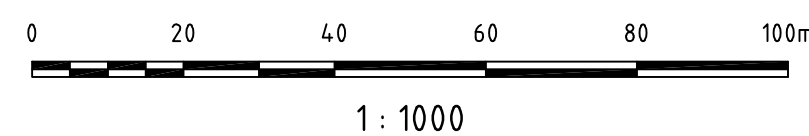
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	TANGENT	DEF ANGLE	ARC LEN
IP1	0.000	318456.800	6406638.810	259d38'15"				
TC	46.477	318411.081	6406630.450	259d38'15"				
IP2	48.614	318408.971	6406630.064		20.000	2.145	12d14'40"	4.274
CT	50.751	318406.827	6406630.135	271d52'55"				
TC	52.432	318405.147	6406630.190	271d52'55"				
IP3	53.799	318403.778	6406630.235		20.000	1.369	7d49'55"	2.734
CT	55.166	318402.417	6406630.093	264d03'01"				
TC	61.607	318396.010	6406629.425	264d03'01"				
IP4	65.687	318391.943	6406629.001		50.000	4.089	9d21'04"	8.160
CT	69.767	318387.999	6406627.922	254d41'57"				
TC	94.561	318364.084	6406621.379	254d41'57"				
IP5	126.241	318331.570	6406612.484		75.000	33.708	48d24'09"	63.359
CT	157.920	318316.637	6406582.264	206d17'48"				
TC	169.949	318311.308	6406571.481	206d17'48"				
IP6	183.533	318305.278	6406559.279		180.000	13.610	8d38'53"	27.168
CTP	197.117	318297.483	6406548.123	214d56'41"				
IP7	198.524	318296.655	6406546.938		5.000	1.446	32d15'11"	2.815
CT	199.932	318296.587	6406545.494	182d41'30"				
TC	221.013	318295.597	6406524.435	182d41'30"				
IP8	237.307	318294.825	6406508.022		103.000	16.431	18d07'38"	32.587
CT	253.601	318299.198	6406492.184	164d33'51"				
TC	263.012	318301.703	6406483.112	164d33'51"				
IP9	267.274	318302.855	6406478.940		20.000	4.328	24d25'14"	8.524
CT	271.536	318302.179	6406474.666	188d59'05"				
TC	282.351	318300.490	6406463.984	188d59'05"				
IP10	286.321	318299.862	6406460.010		20.000	4.024	22d44'58"	7.941
CT	290.292	318300.819	6406456.102	166d14'06"				
TC	309.327	318305.349	6406437.613	166d14'06"				
IP11	310.480	318305.623	6406436.493		50.000	1.153	2d38'33"	2.306
CT	311.634	318305.846	6406435.361	168d52'40"				
TC	349.946	318313.236	6406397.768	168d52'40"				
IP12	351.561	318313.548	6406396.183		50.000	1.615	3d41'59"	3.229
CT	353.175	318313.756	6406394.582	172d34'39"				
TC	376.113	318316.720	6406371.836	172d34'39"				
IP13	377.969	318316.960	6406369.991		20.000	1.861	10d38'00"	3.712
CT	379.825	318316.856	6406368.133	183d12'39"				
TC	404.009	318315.501	6406343.986	183d12'39"				
IP14	405.149	318315.437	6406342.848		50.000	1.140	2d36'41"	2.279
CT	406.288	318315.425	6406341.708	180d35'59"				
TC	430.240	318315.175	6406317.758	180d35'59"				
IP15	432.032	318315.156	6406315.961		20.000	1.796	10d15'54"	3.583
CT	433.824	318315.457	6406314.190	170d20'04"				
TC	437.430	318316.063	6406310.635	170d20'04"				
IP16	439.457	318316.403	6406308.636		50.000	2.028	4d38'43"	4.054
CT	441.483	318316.905	6406306.671	165d41'21"				
TC	444.071	318317.544	6406304.164	165d41'21"				
IP17	445.104	318317.810	6406303.121		3.000	1.076	39d28'12"	2.067
CT	446.138	318317.353	6406302.147	205d09'33"				
TC	447.161	318316.918	6406301.221	205d09'33"				
IP18	448.332	318316.393	6406300.104		3.000	1.234	44d43'02"	2.341
CT	449.502	318315.235	6406299.679	249d52'36"				
TC	453.334	318311.637	6406298.361	249d52'36"				
IP19	454.617	318310.405	6406297.909		5.000	1.312	29d24'22"	2.566
CT	455.900	318309.553	6406296.911	220d28'14"				
TC	472.342	318298.881	6406284.403	220d28'14"				

EASTERN CREEK DIVERSION CENTRELINE – CONTROL LINE DETAILS (CONTINUED)

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	TANGENT	DEF ANGLE	ARC LEN
IP20	475.408	318296.876	6406282.053		20.000	3.089	17d33'43"	6.130
CT	478.473	318294.255	6406280.417	238d01'57"				
TC	494.803	318280.402	6406271.772	238d01'57"				
IP21	520.986	318251.691	6406253.854		32.500	33.843	92d19'07"	52.366
CT	547.169	318270.756	6406225.892	145d42'50"				
TC	610.077	318306.194	6406173.915	145d42'50"				
IP22	615.663	318309.361	6406169.270		40.000	5.622	16d00'09"	11.172
CT	621.249	318313.686	6406165.677	129d42'41"				
TC	635.706	318324.808	6406156.440	129d42'41"				
IP23	639.475	318328.419	6406153.441		5.000	4.694	86d23'05"	7.538
CT	643.245	318325.653	6406149.648	216d05'46"				
TC	651.183	318320.977	6406143.234	216d05'46"				
IP24	654.191	318319.149	6406140.727		10.000	3.102	34d28'20"	6.017
CT	657.199	318319.061	6406137.626	181d37'26"				
TC	660.584	318318.965	6406134.243	181d37'26"				
IP25	663.131	318318.891	6406131.640		10.000	2.604	29d11'31"	5.095
CT	665.679	318317.557	6406129.403	210d48'57"				
TC	677.754	318311.371	6406119.033	210d48'57"				
IP26	678.993	318310.736	6406117.968		20.000	1.241	7d05'60"	2.478
CT	680.232	318309.973	6406116.989	217d54'57"				
TC	696.806	318299.789	6406103.914	217d54'57"				
IP27	701.313	318296.971	6406100.296		20.000	4.585	25d49'33"	9.015
CT	705.821	318292.859	6406098.267	243d44'29"				
TC	726.793	318274.051	6406088.989	243d44'29"				
IP28	730.845	318270.366	6406087.171		20.000	4.109	23d13'09"	8.105
CT	734.898	318267.697	6406084.048	220d31'21"				
TC	752.568	318256.215	6406070.615	220d31'21"				
IP29	758.431	318252.404	6406066.157		150.000	5.866	4d28'43"	11.725
CT	764.293	318248.953	6406061.414	216d02'38"				
TC	794.092	318231.420	6406037.320	216d02'38"				
IP30	812.705	318220.201	6406021.904		70.000	19.065	30d28'17"	37.228
CTP	831.319	318218.350	6406002.929	185d34'21"				
IP31	842.115	318217.187	6405999.003		20.000	11.983	61d51'20"	21.592
CT	852.911	318227.154	6405984.351	123d43'00"				
TC	885.959	318238.039	6405977.087	123d43'00"				
IP32	887.529	318257.145	6405964.337		50.000	22.970	49d20'51"	43.064
CT	900.061	318259.619	6405941.535	173d03'52"				
TC	930.468	318262.504	6405920.285	173d03'52"				
IP33	933.904	318262.923	6405916.840		20.000	3.470	19d41'19"	6.872
CT	937.341	318262.157	6405913.455	192d45'08"				
IP34	955.401	318258.170	6405895.840	192d45'08"				



PI	ISSUE FOR REVIEW	06-10-09
Issue	Description	Date



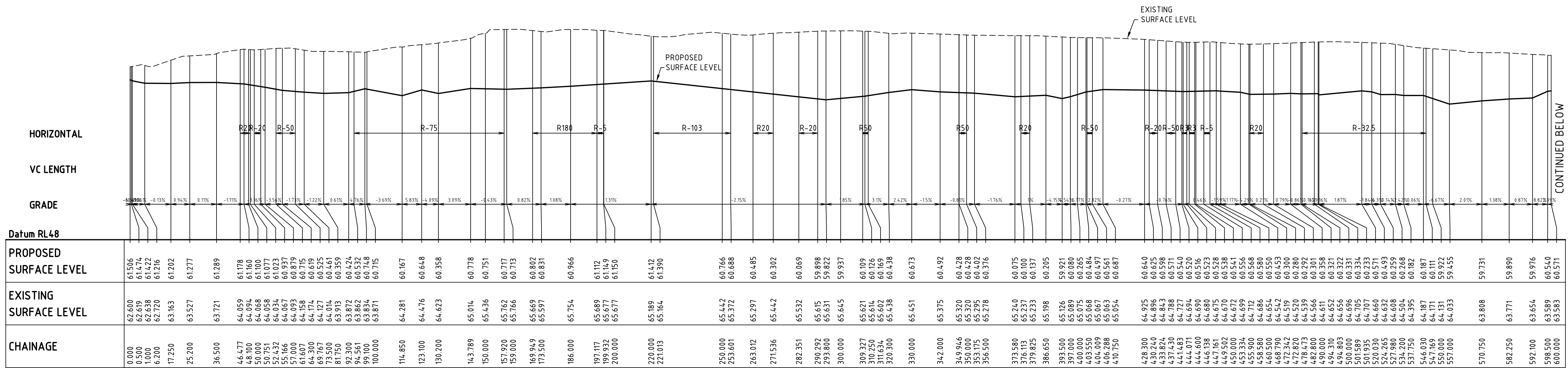
Client	ASHTON COAL
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Status	FOR APPROVAL
Scales	1:1000
Original Size	A1
Height Datum	AHD
Grid	
File	AA002659-NSD-00-EASTERN_DIVERSION_SETOUT_PL.dwg

Project	BOWMANS CREEK CAMBERWELL
Title	EASTERN DIVERSION SETOUT PLAN

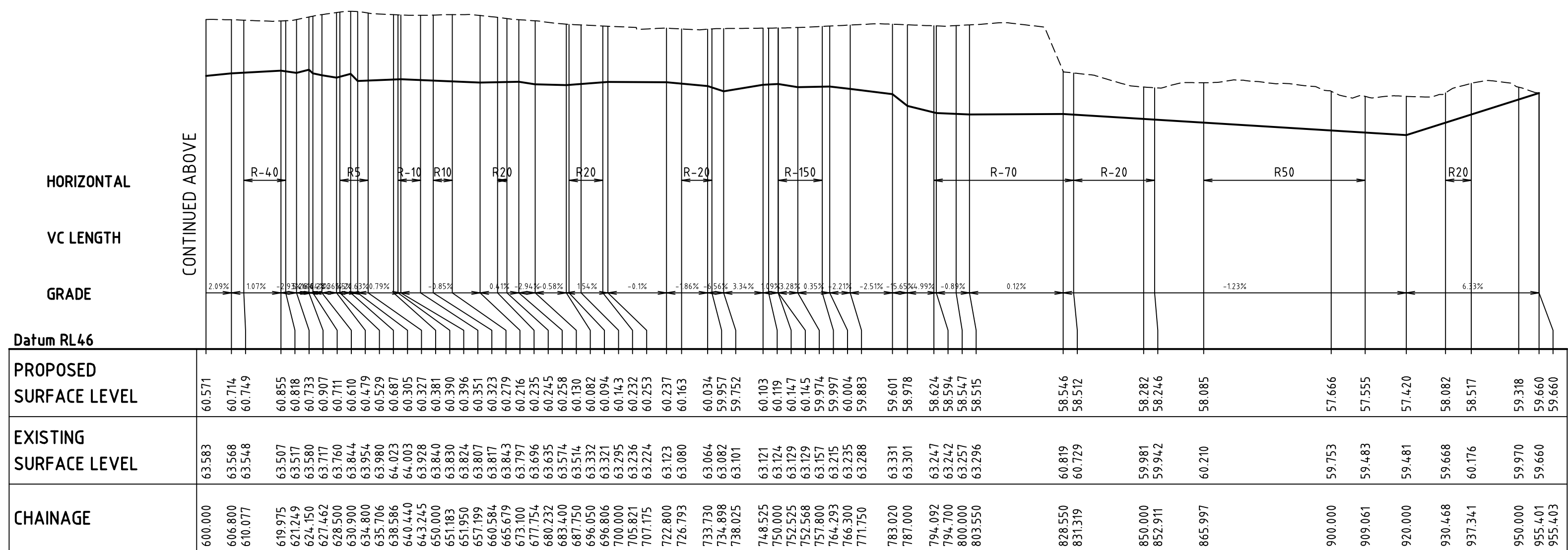
HYDER CONSULTING PTY LTD
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Drawing No. C006 - AA002659 - P1



EASTERN DIVERSION CENTRELINE - LONGITUDINAL SECTION

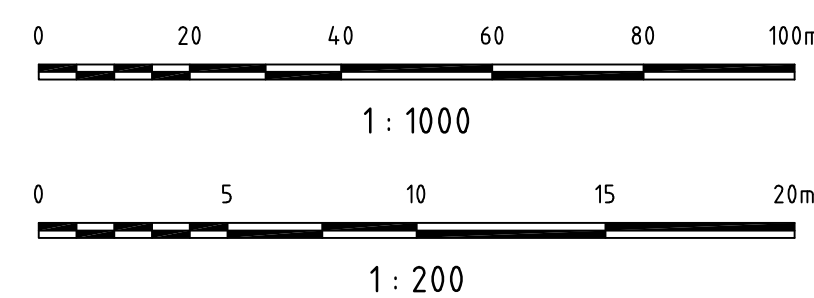
SCALE 1:1000 HORI.
1:200 VERT.



EASTERN DIVERSION CENTRELINE - LONGITUDINAL SECTION (CONTINUED)

SCALE 1:1000 HORI.
1:200 VERT.

P1	ISSUE FOR REVIEW	06-10-09
Issue	Description	Date



Client	ASHTON COAL
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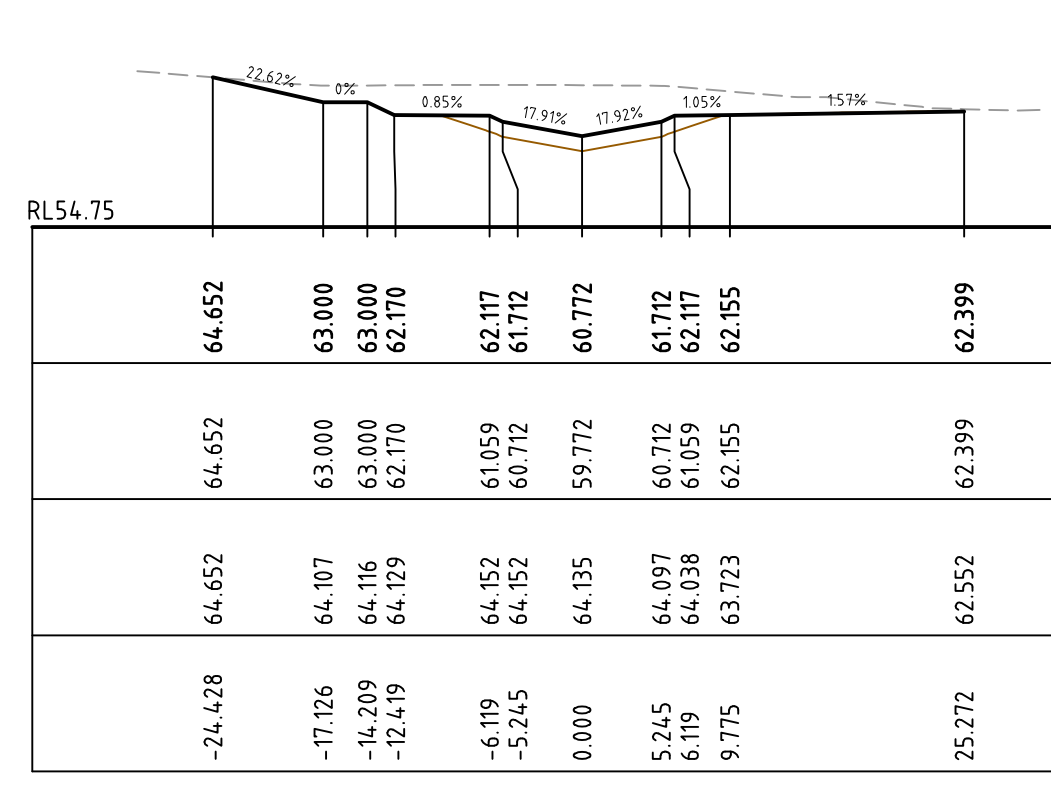
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Project	BOWMANS CREEK CAMBERWELL
Title	EASTERN DIVERSION LONGITUDINAL SECTION

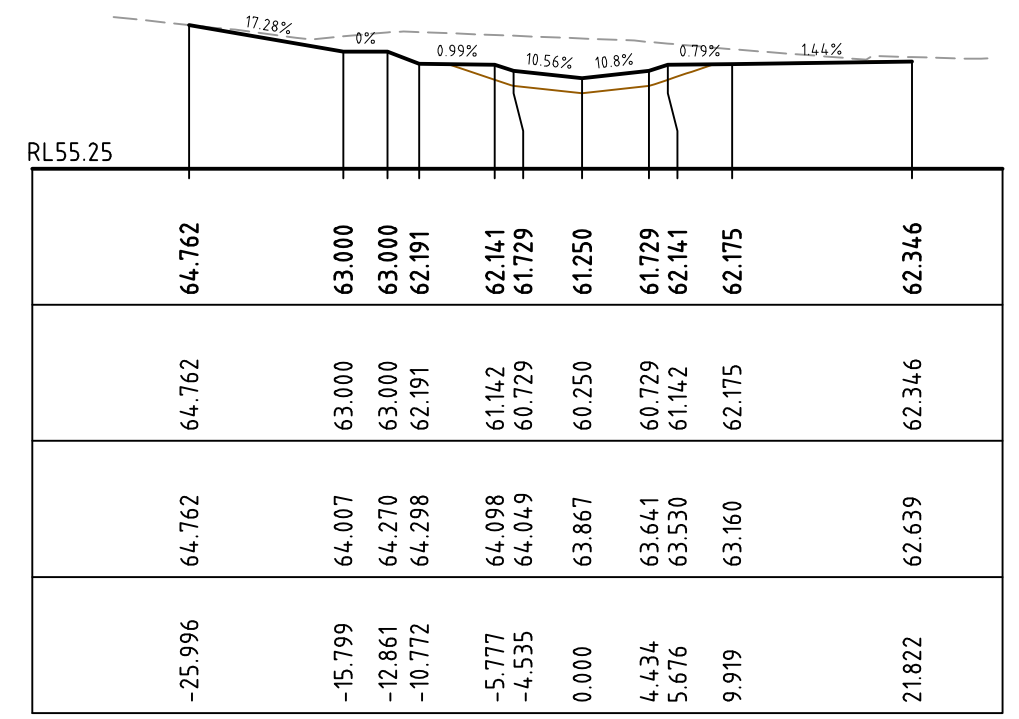
HYDER CONSULTING PTY LTD
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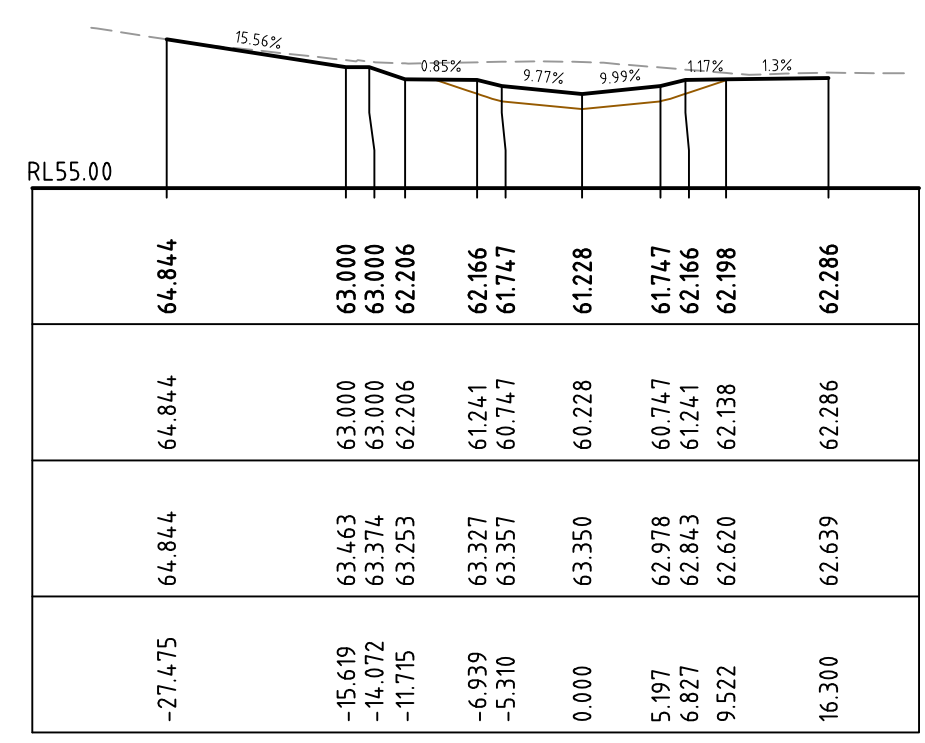
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 Project No. AA002659
 Issue



CH 60



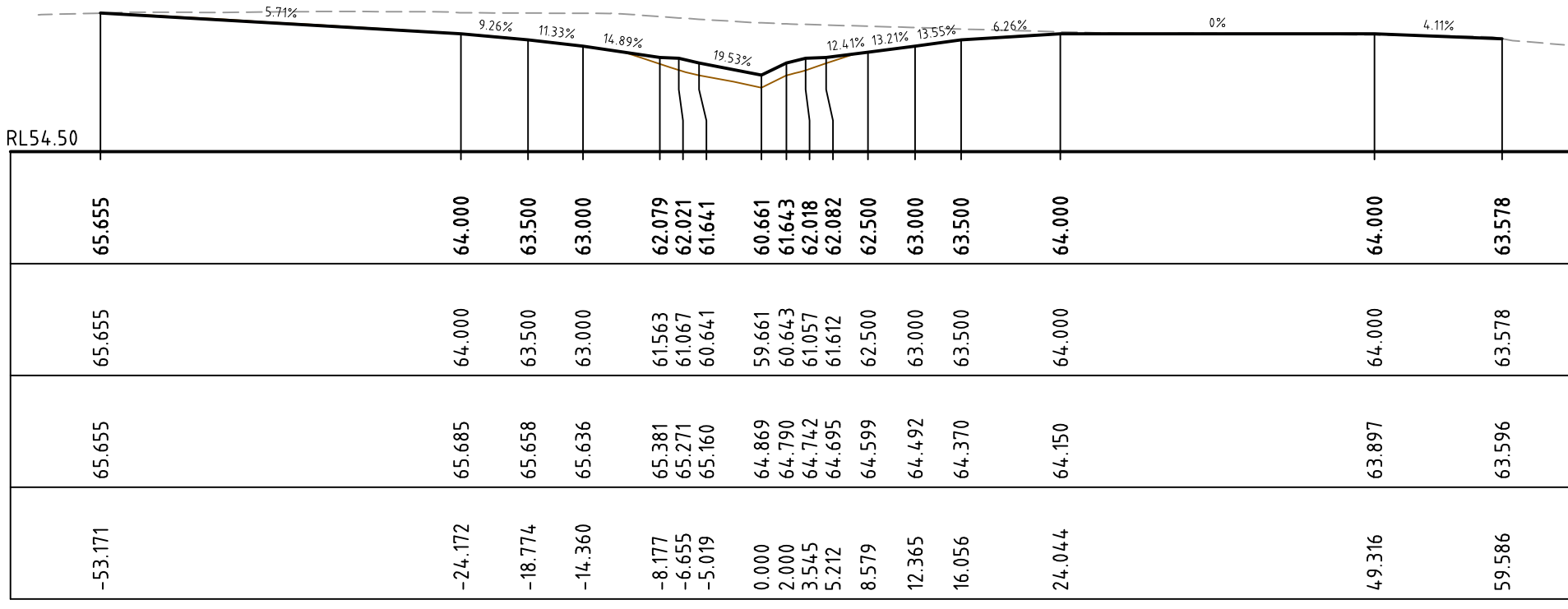
CH 40



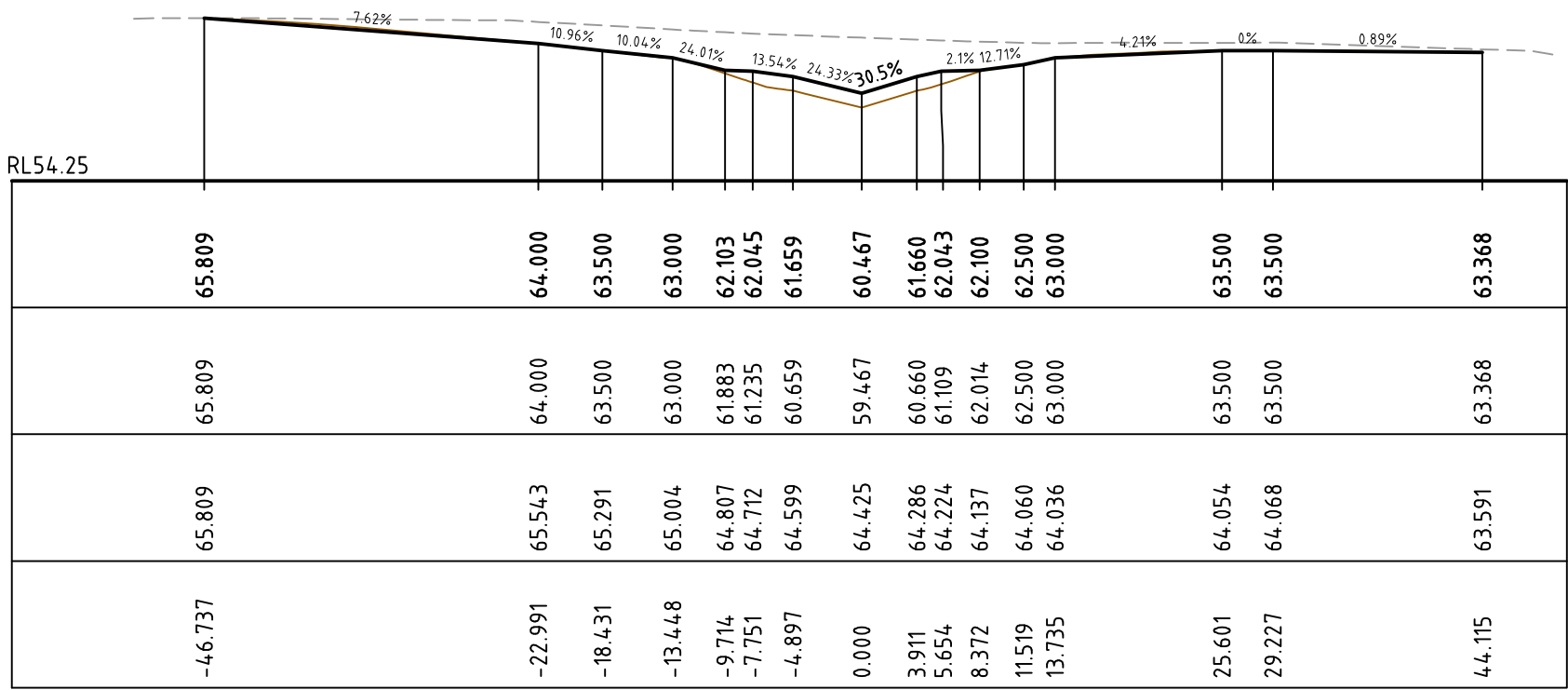
CH 20

65.482	65.482	65.482	-29.126
62.991	62.991	62.000	-7.009
61.655	60.765	62.004	-6.029
61.506	60.506	62.000	0.000
62.225	62.225	62.815	10.637
62.226	62.226	62.826	10.777

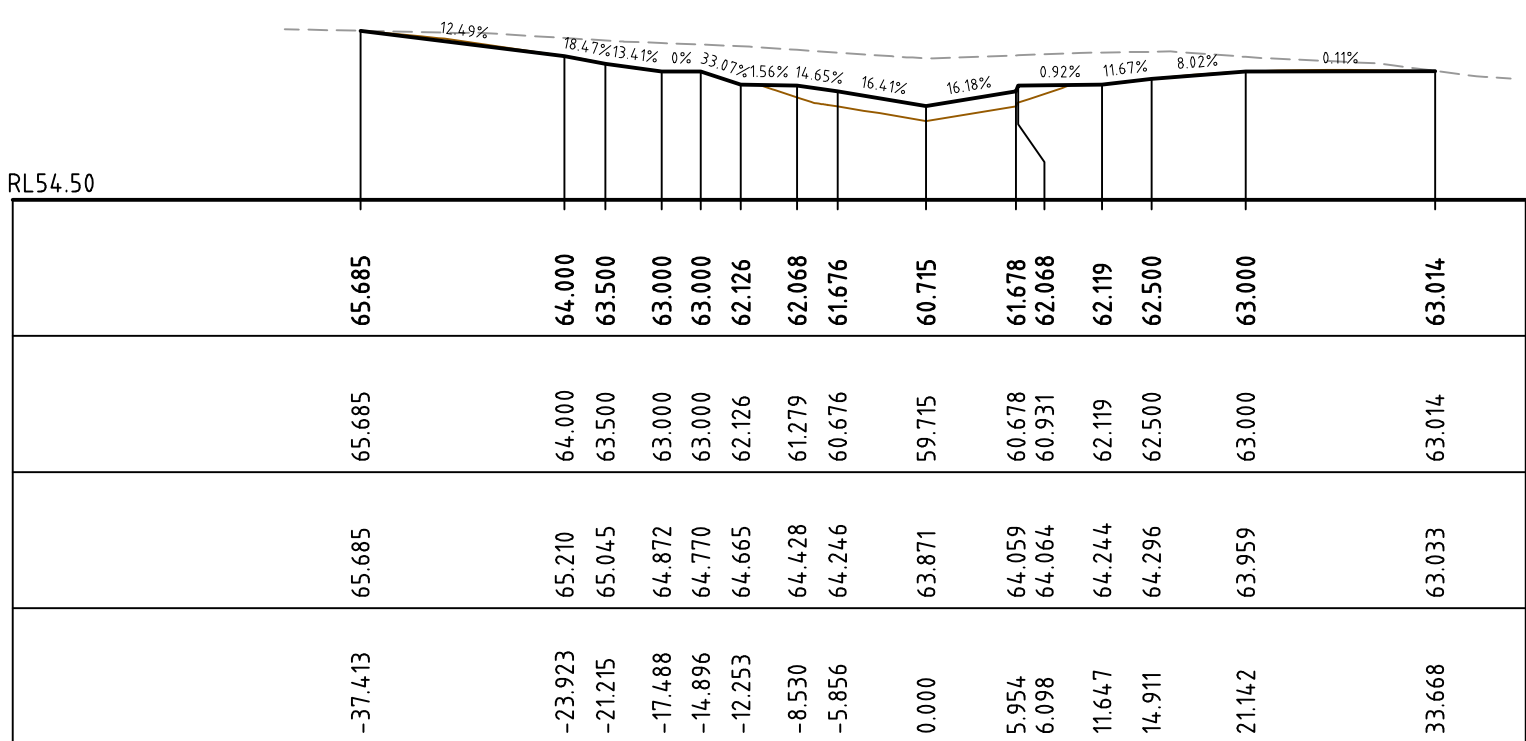
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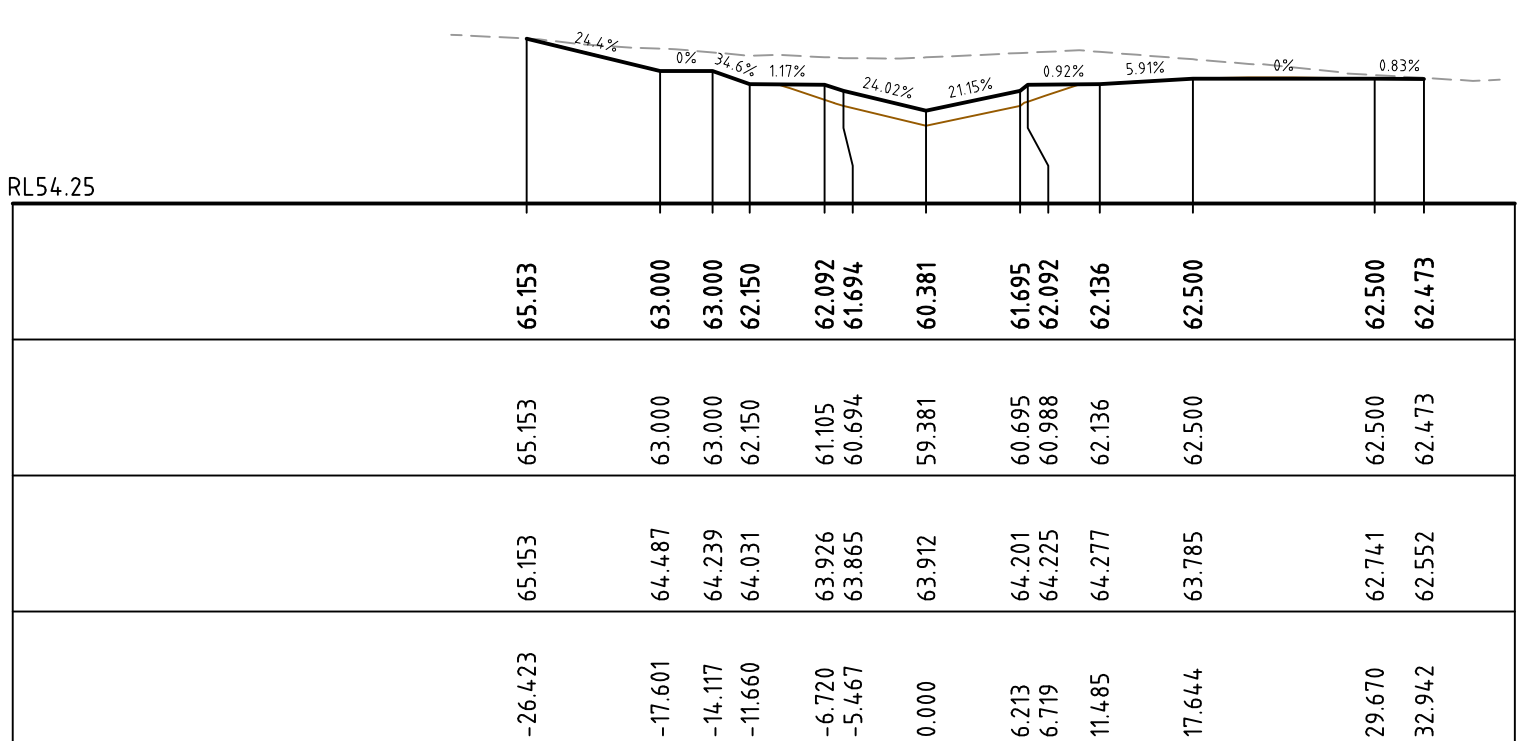
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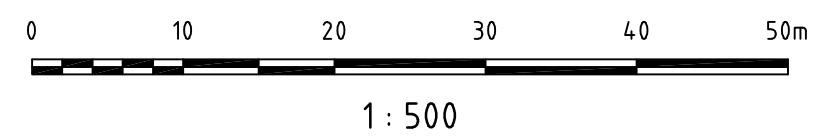
CH 120



CH 100



CH 80



P1	ISSUE FOR REVIEW	06-10-09
Issue	Description	Date

Client	ASHTON COAL
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Original Size	A1
Height Datum	AHD
Grid	

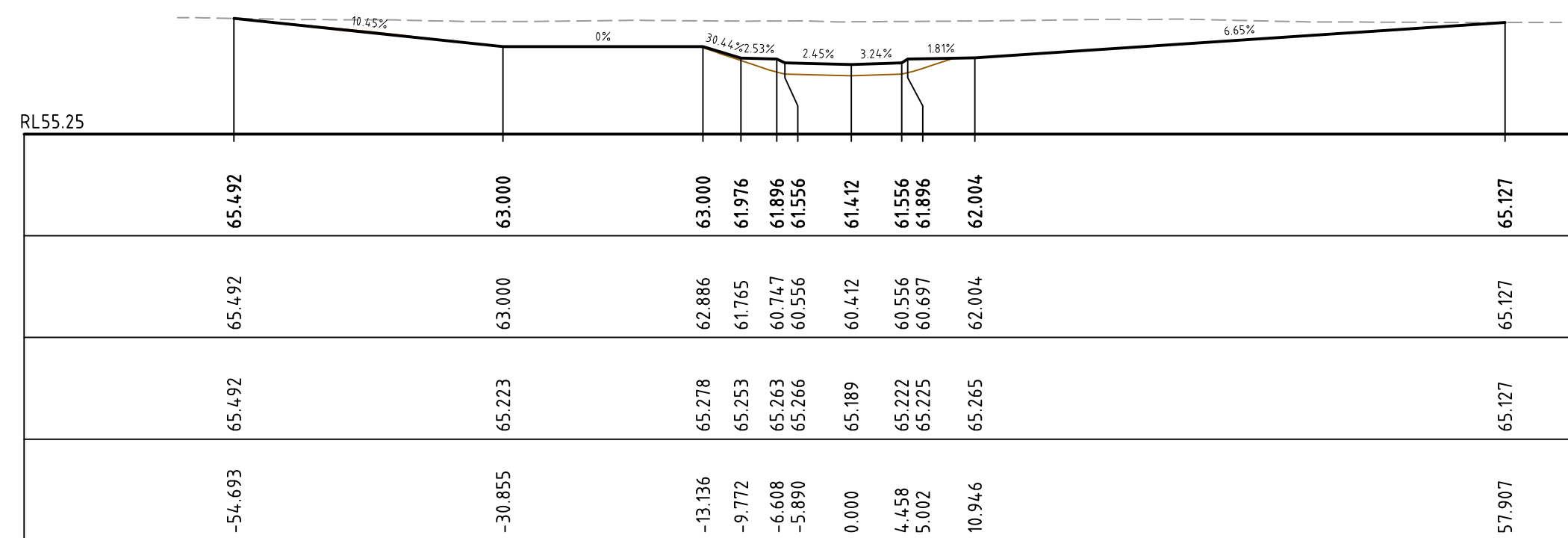
Project	BOWMANS CREEK CAMBERWELL
Title	EASTERN DIVERSION CROSS SECTION - SHEET 1

Current Issue Signatures	Drawn	Designed	Checked	Approved
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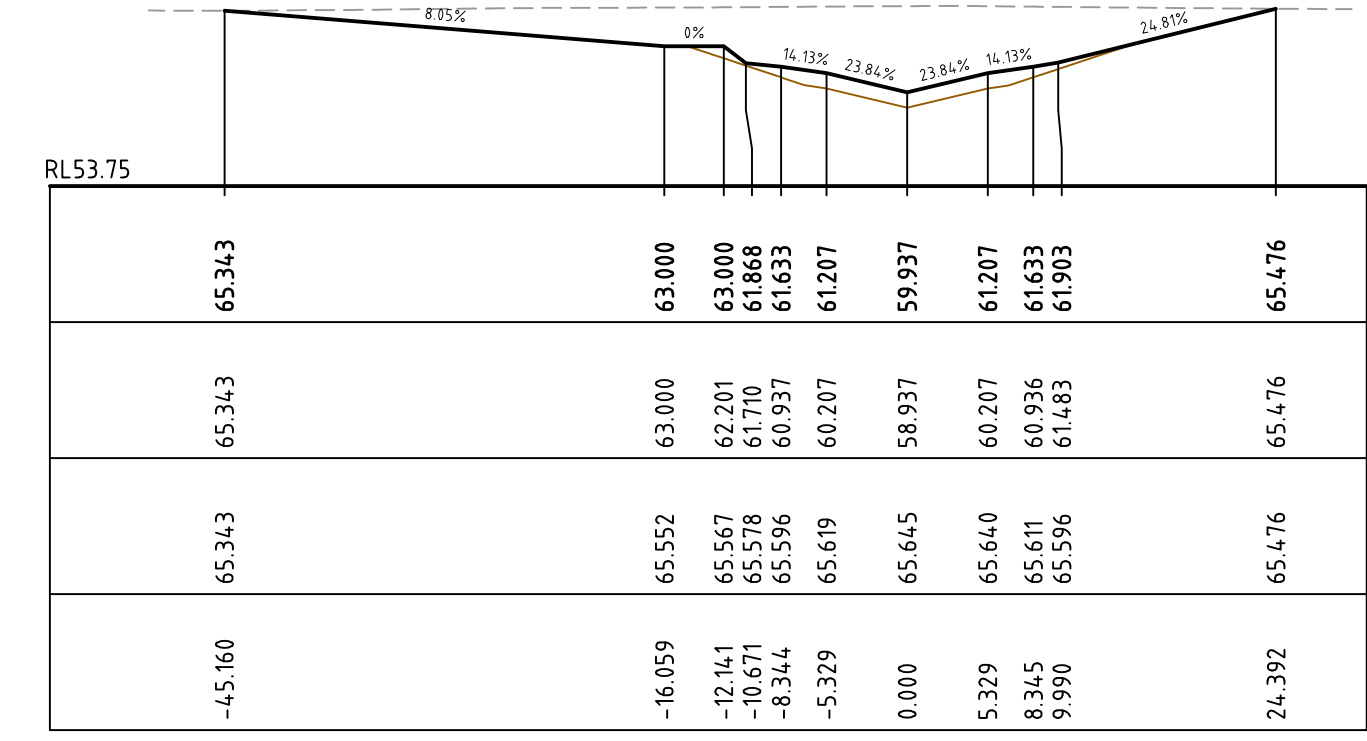
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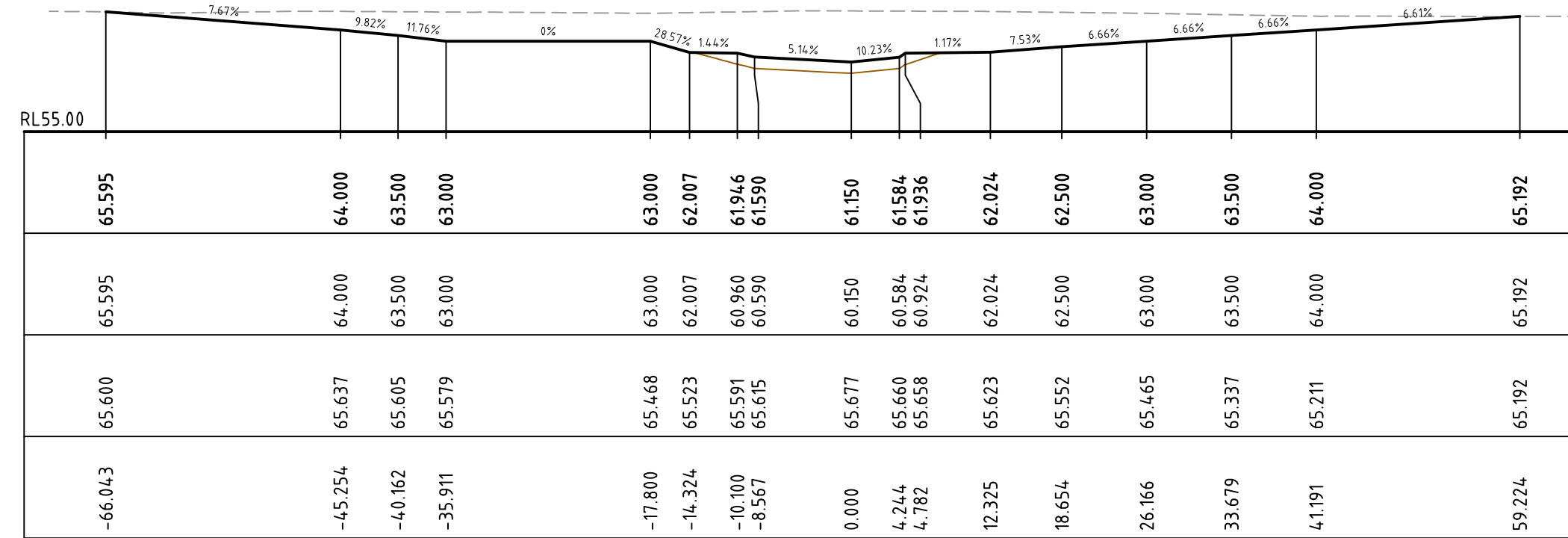
Drawing No. C008 - AA002659 - P1
 Project No. AA002659
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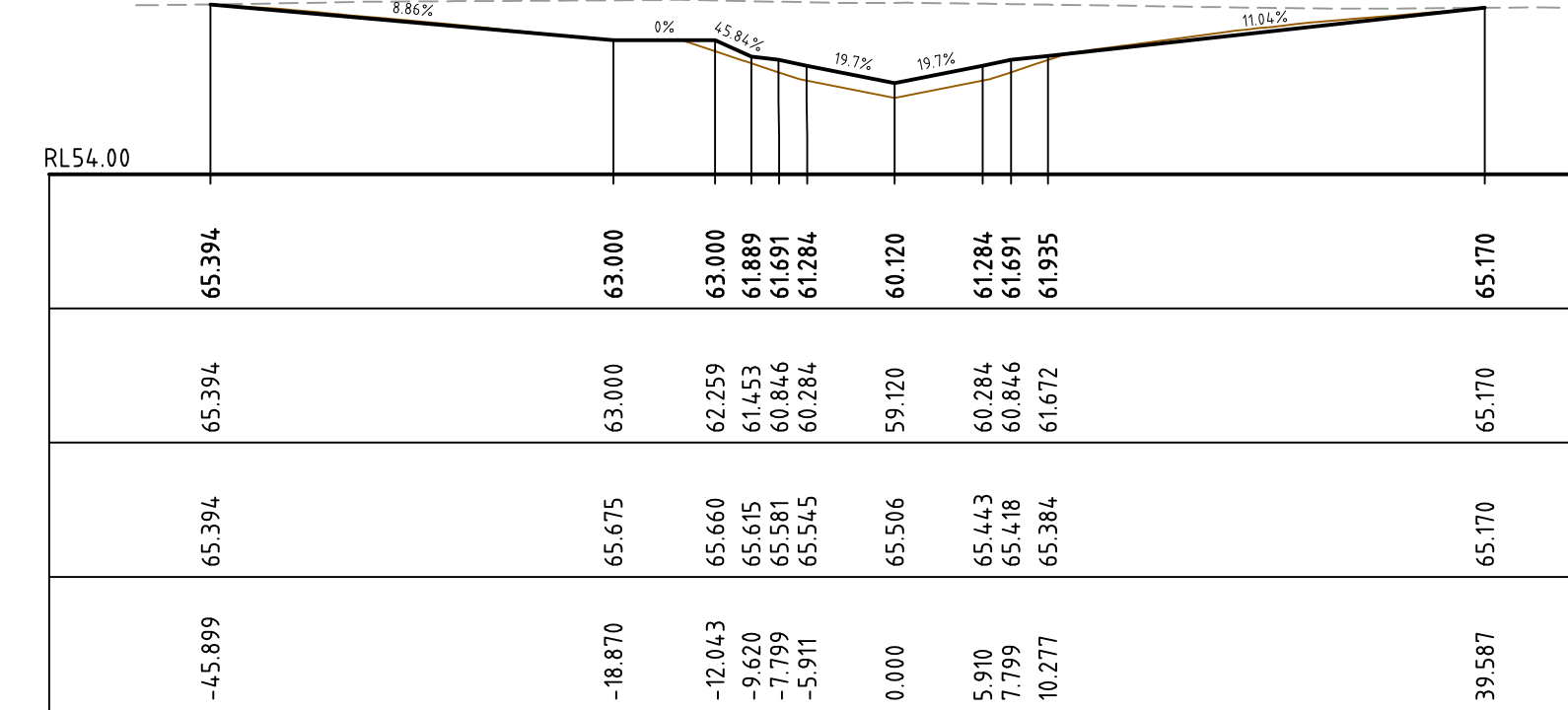
CH 220



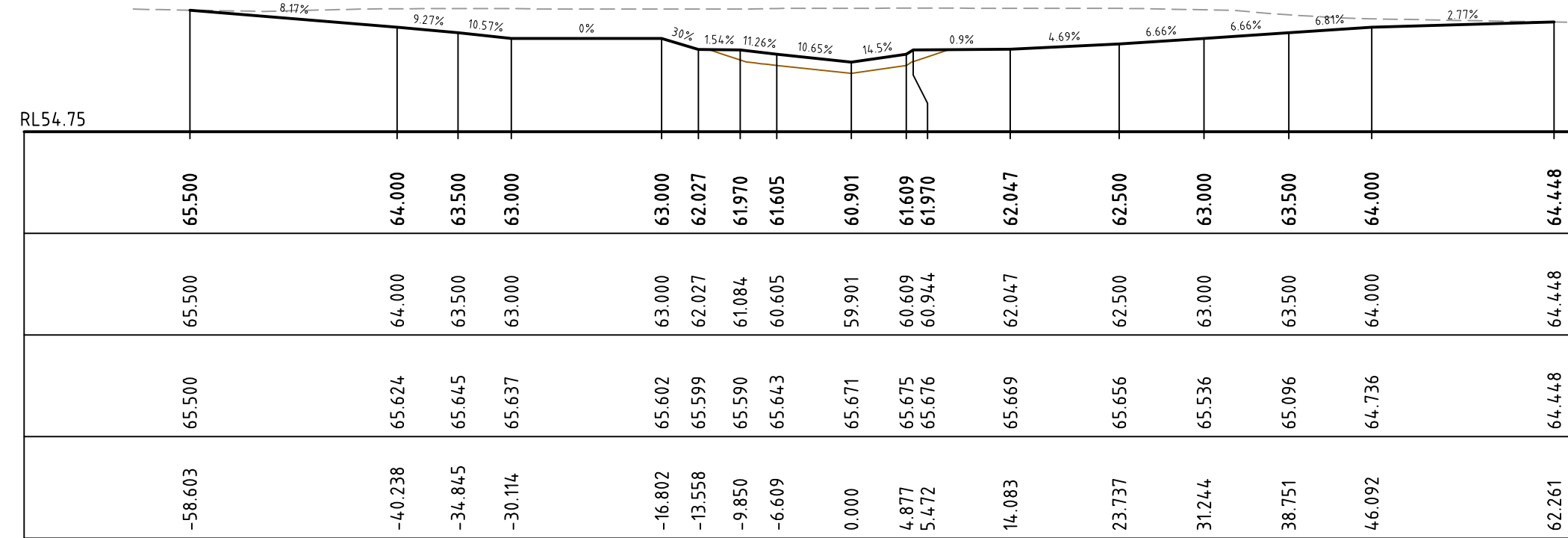
CH 300



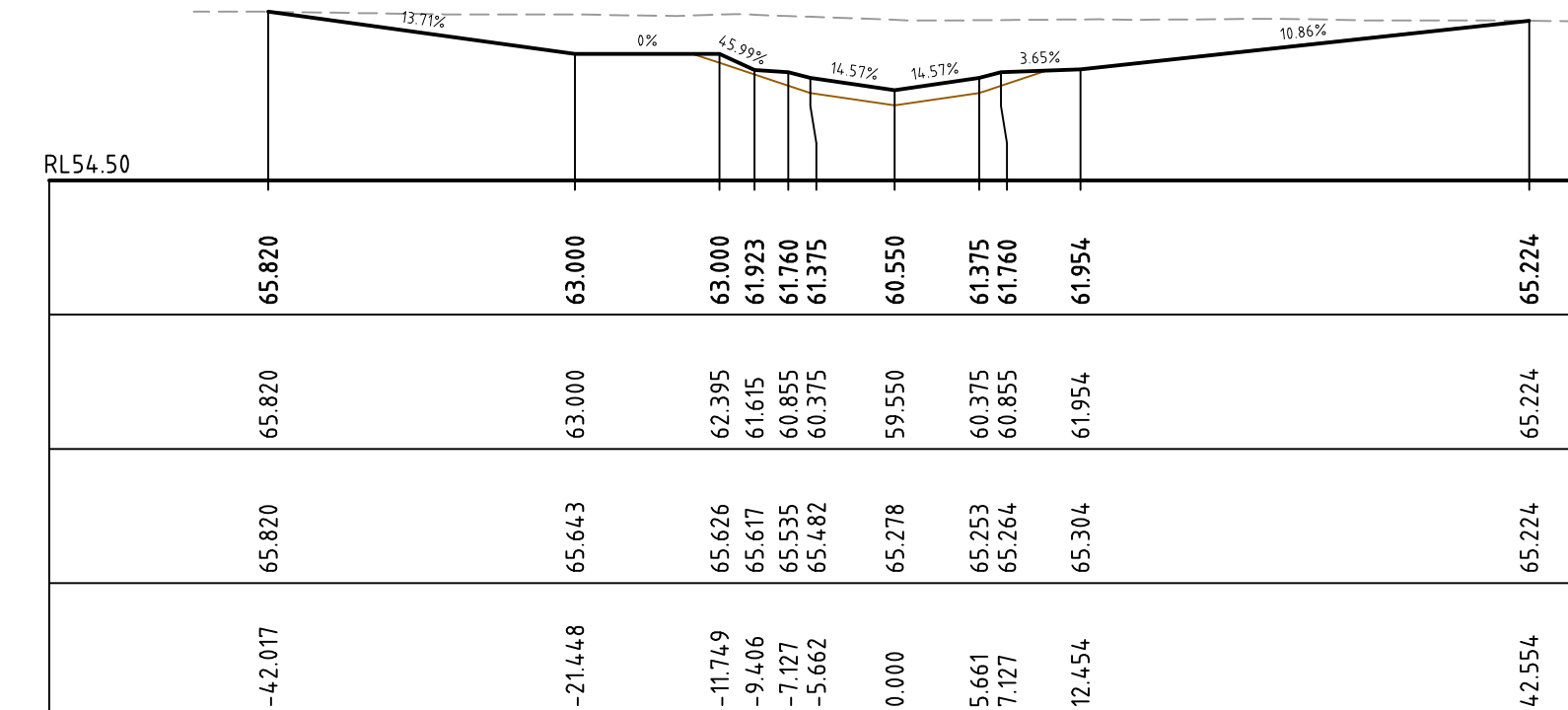
CH 200



CH 280



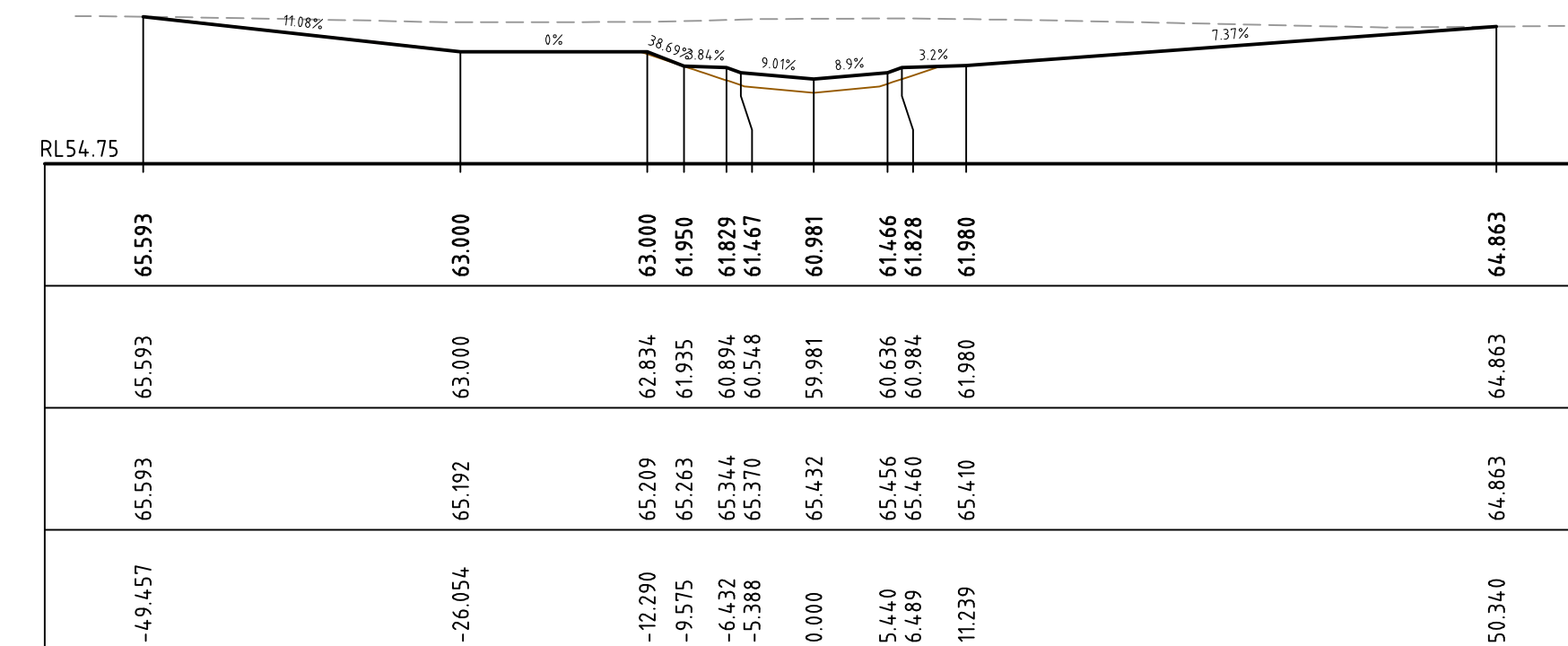
CH 180



CH 260

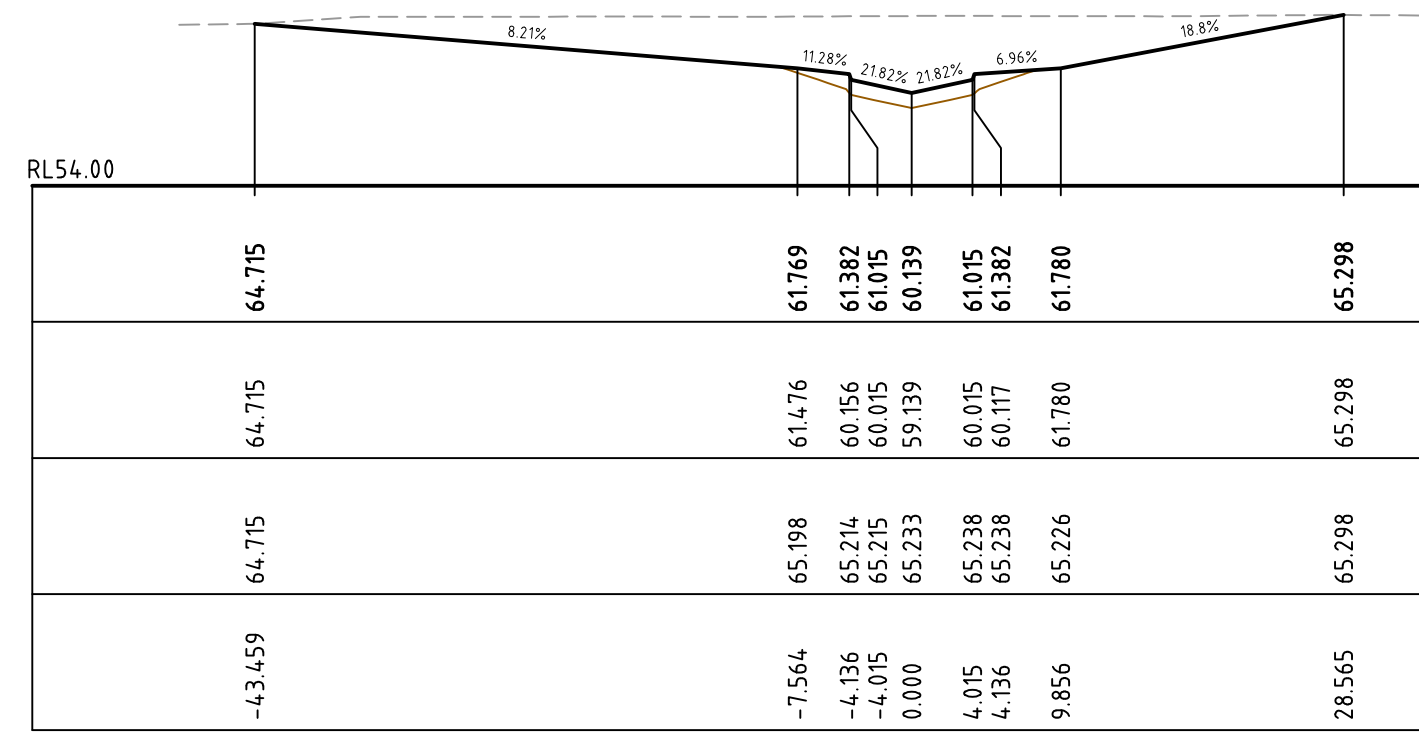
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PROPOSED BULK SURFACE LEVEL	65.537	63.500	63.000	65.745	-25.376
EXISTING SURFACE LEVEL	65.537	63.000	63.000	65.761	-20.770
CENTRELINE OFFSET	65.537	62.056	62.056	65.771	-17.959
	65.839	61.078	61.078	65.789	-14.064
	65.745	61.987	61.987	65.788	-9.004
	65.711	61.824	61.824	65.783	-6.631
	65.770	60.721	60.721	65.770	0.000
	65.740	60.825	60.825	65.740	3.266
	65.714	61.083	61.083	65.714	5.414
	65.549	62.063	62.063	65.549	11.330
	65.724	62.500	62.500	65.724	17.844
	64.949	63.000	63.000	64.949	25.909
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CH 160

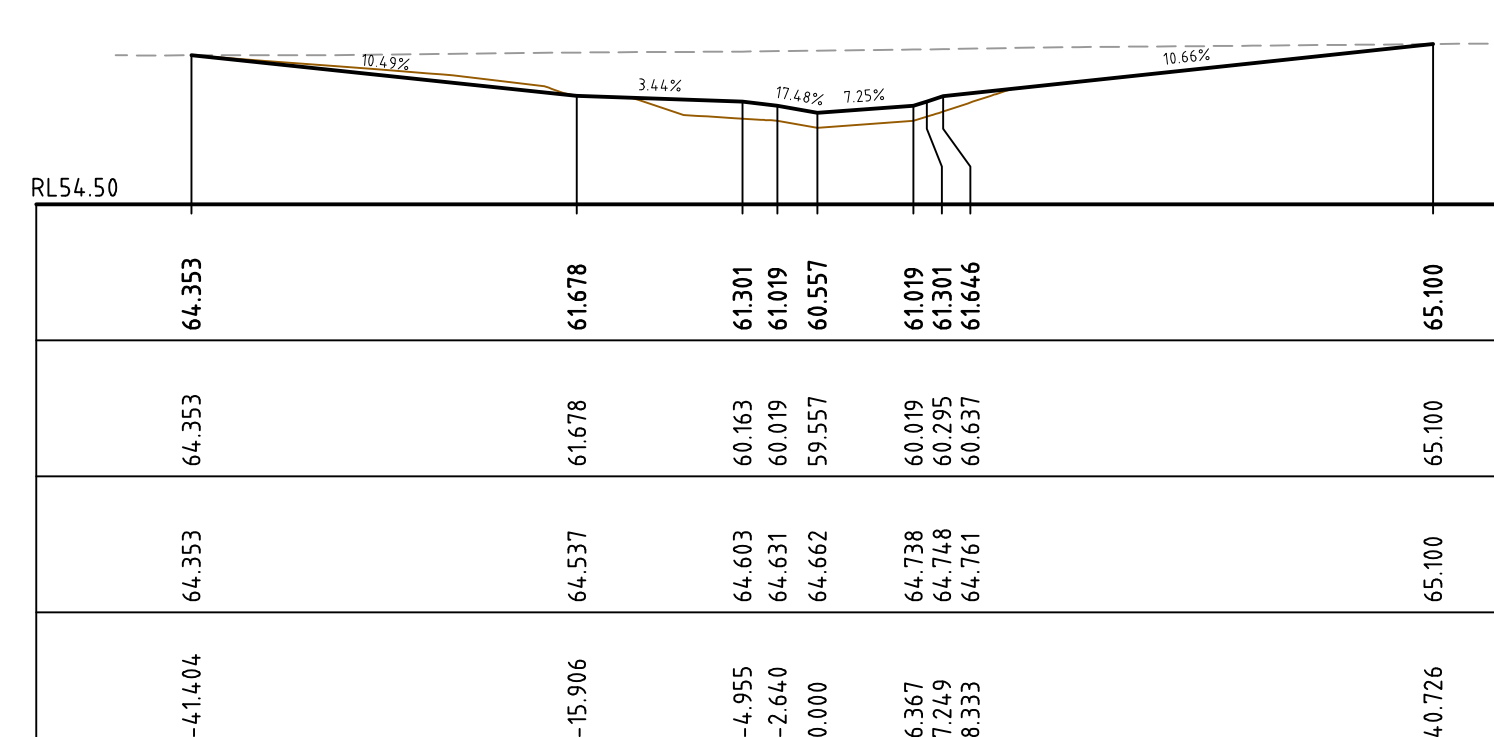


CH 240

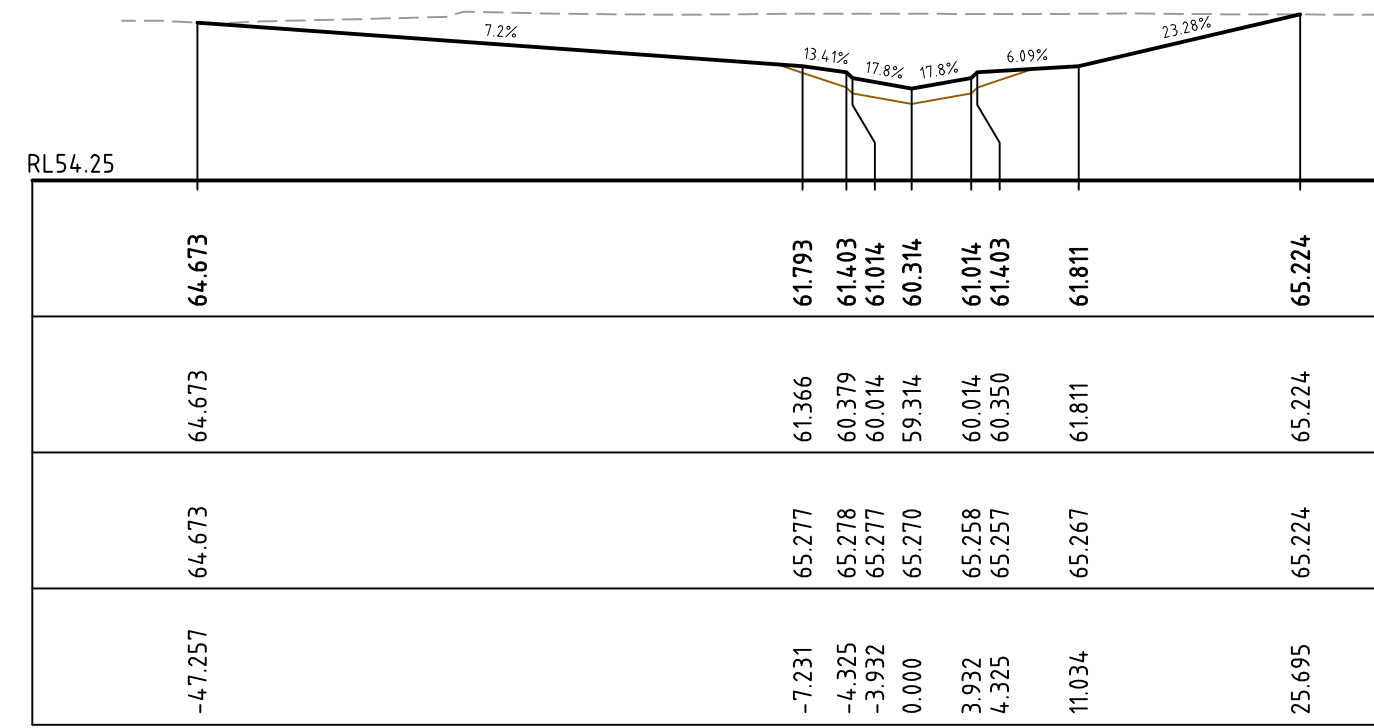
P1 ISSUE FOR REVIEW Issue Description Date	06-10-09		Client ASHTON COAL	Status FOR APPROVAL	Project BOWMANS CREEK CAMBERWELL		HYDER CONSULTING PTY LTD ABN 76 104 485 289 Level 5, 141 Walker St North Sydney NSW 2060 Australia Tel: +61 (0)2 8907 9000 Fax: +61 (0)2 8907 9001 www.hyderconsulting.com © Copyright reserved
Drawing No. C009 Project No. AA002659 Issue P1			Date Plotted: 9 Oct 2009 - 02:53PM File Name: F:\AA002659\E-CAD\Civil\ID-Final\C009-AA002659-NSD-00-EASTERN_DIVERSION_CROSS_SECTIONS_SHEET_2.dwg				



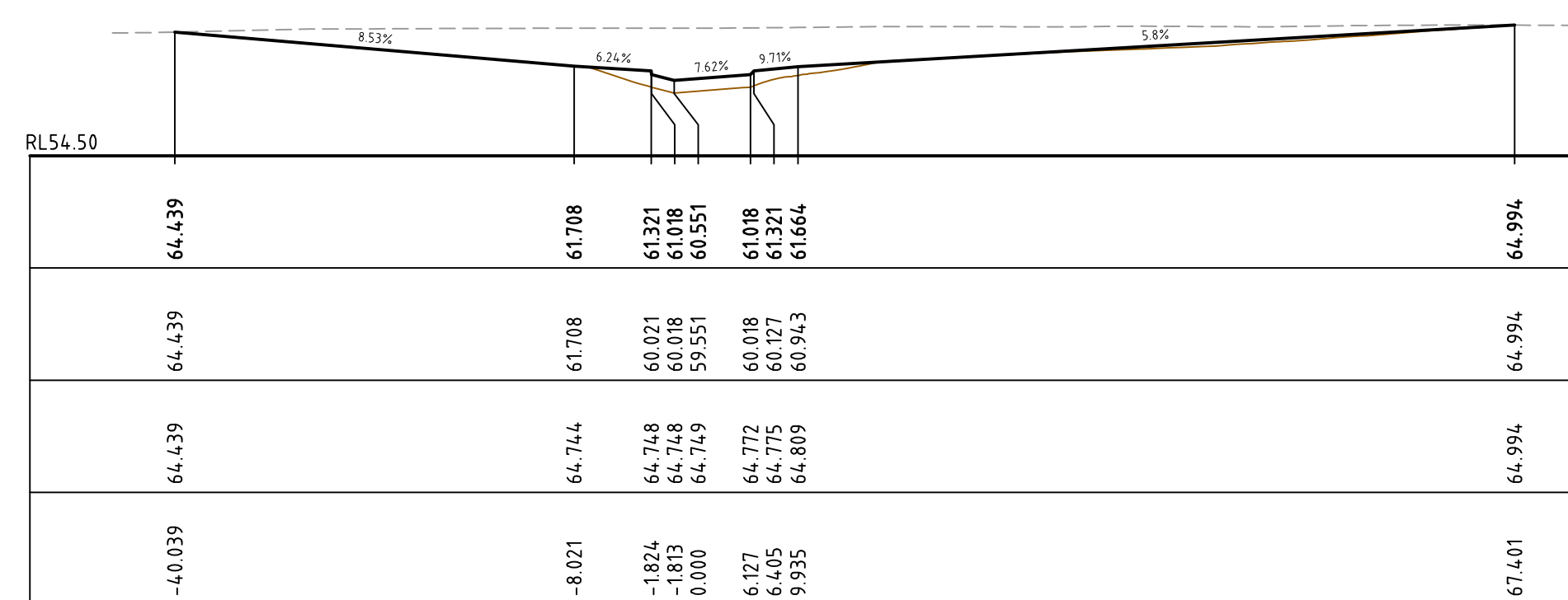
CH 380



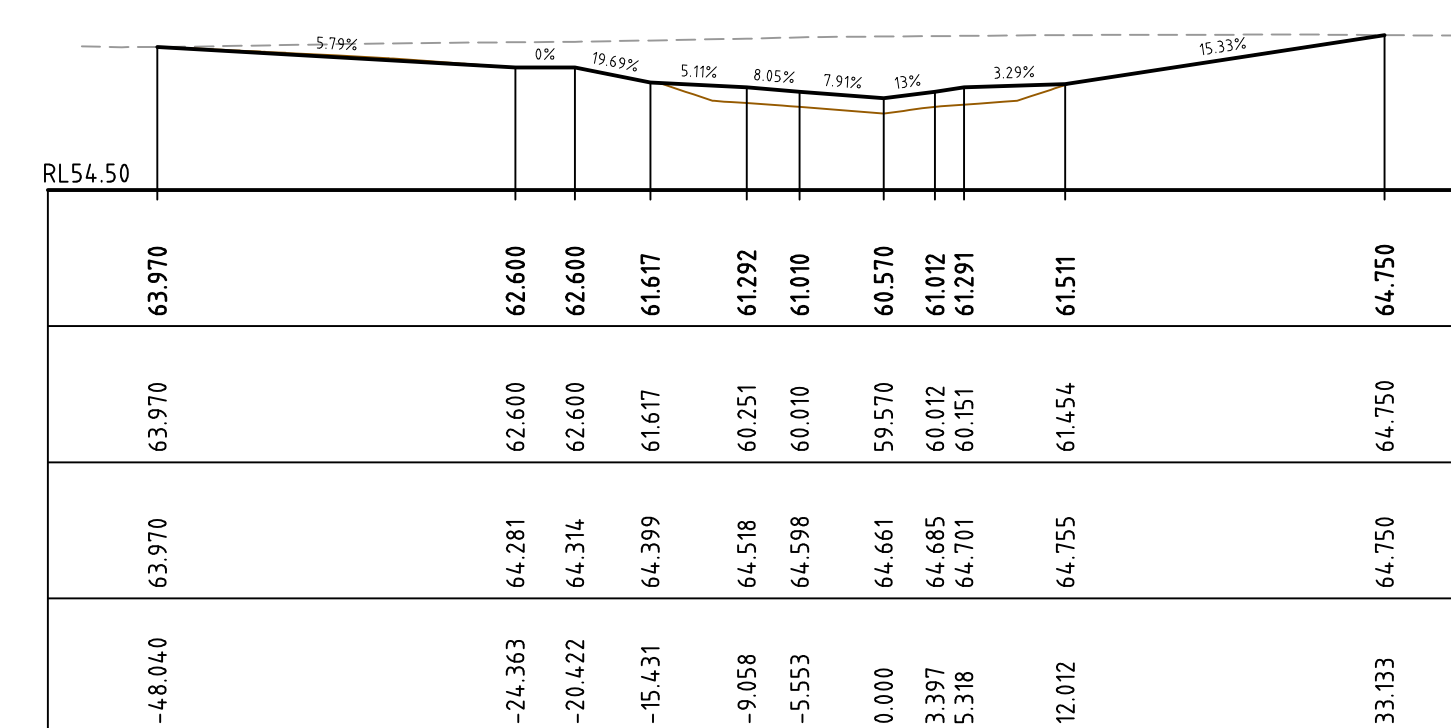
CH 460



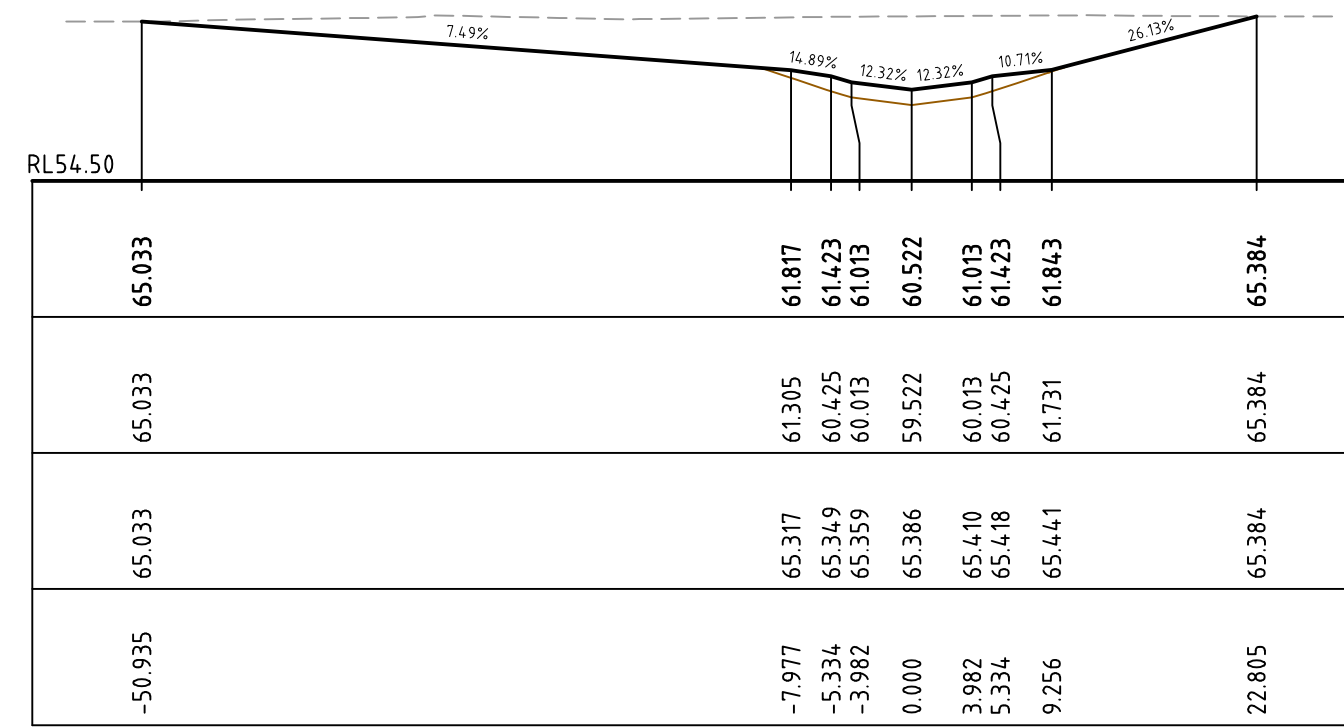
CH 360



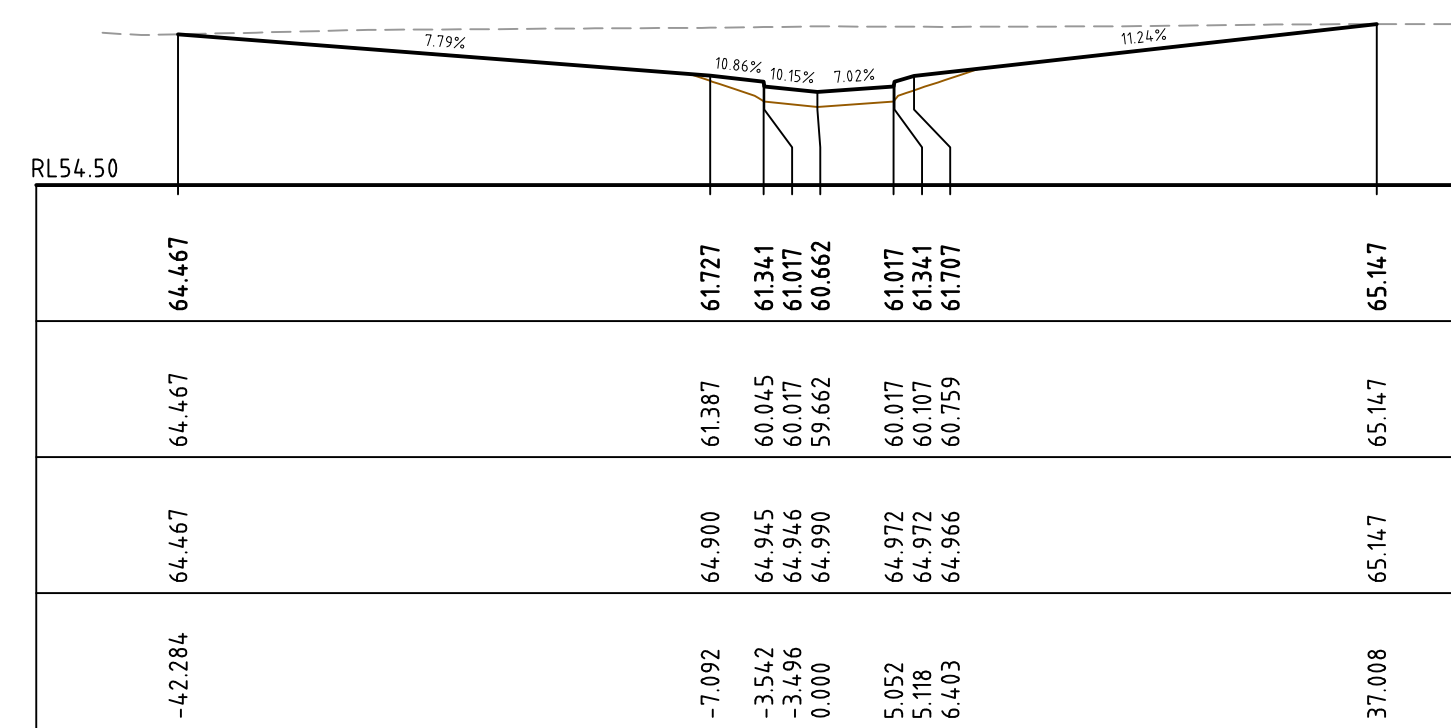
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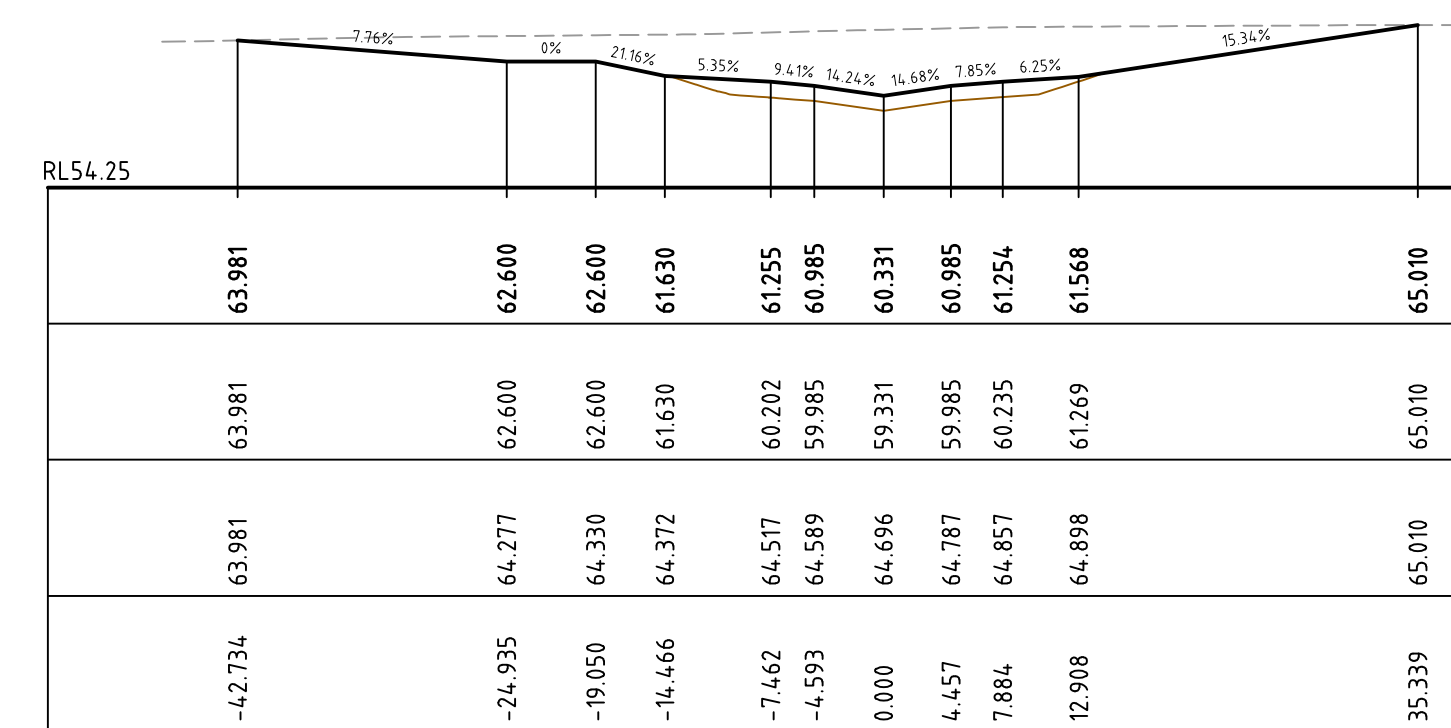
CH 520



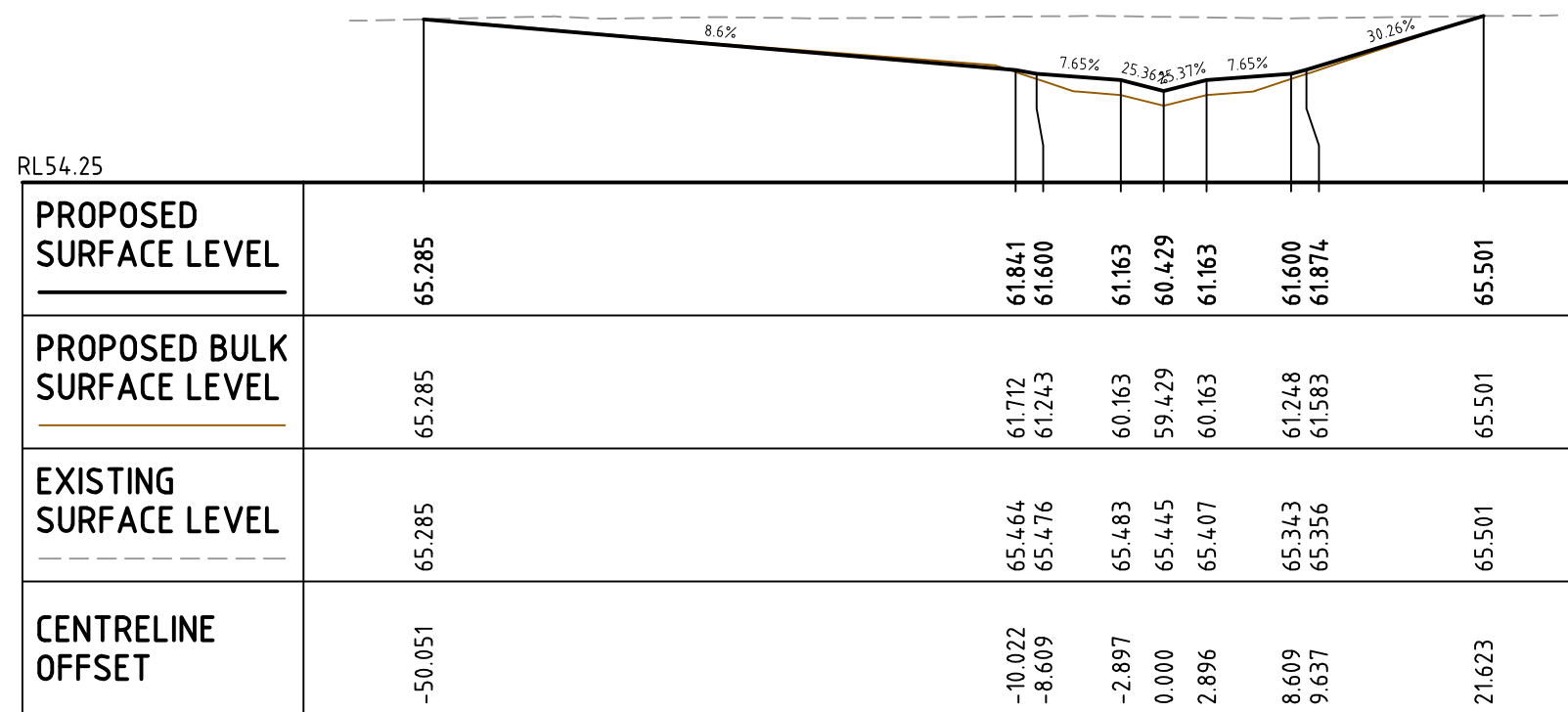
CH 340



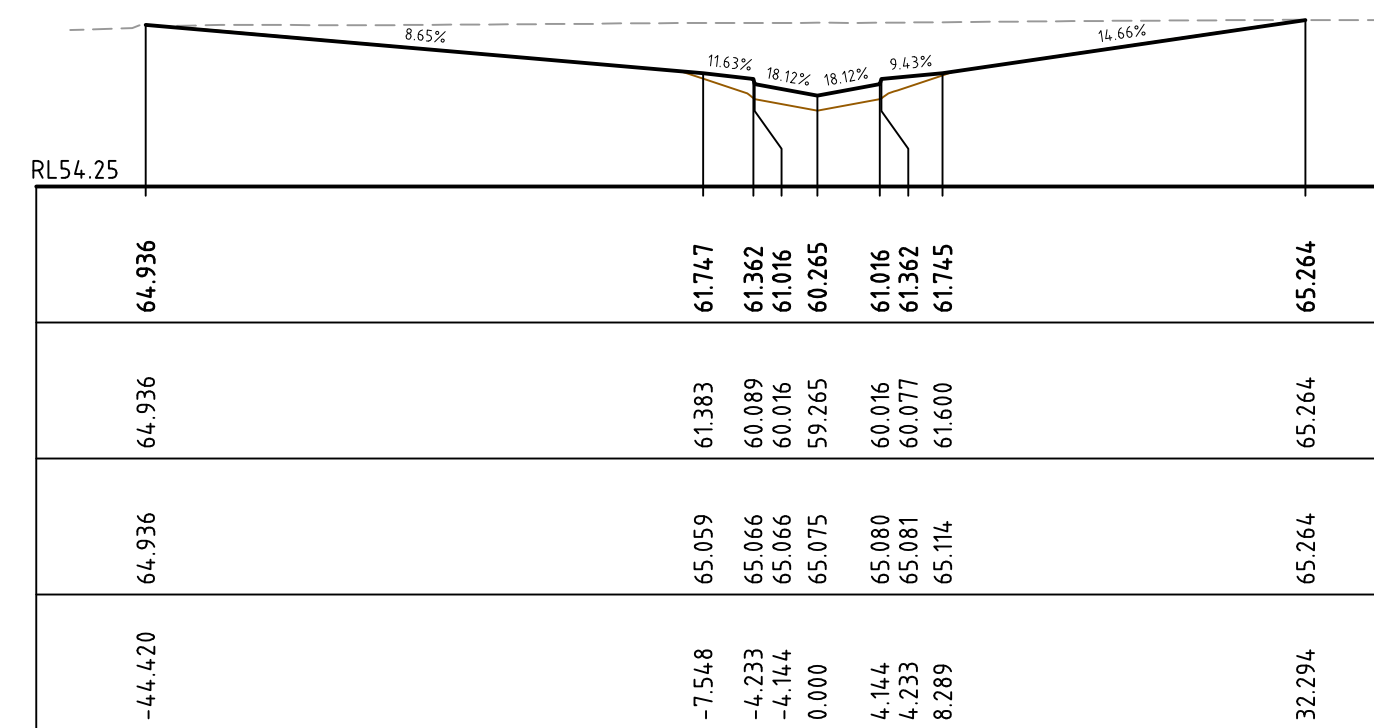
CH 420



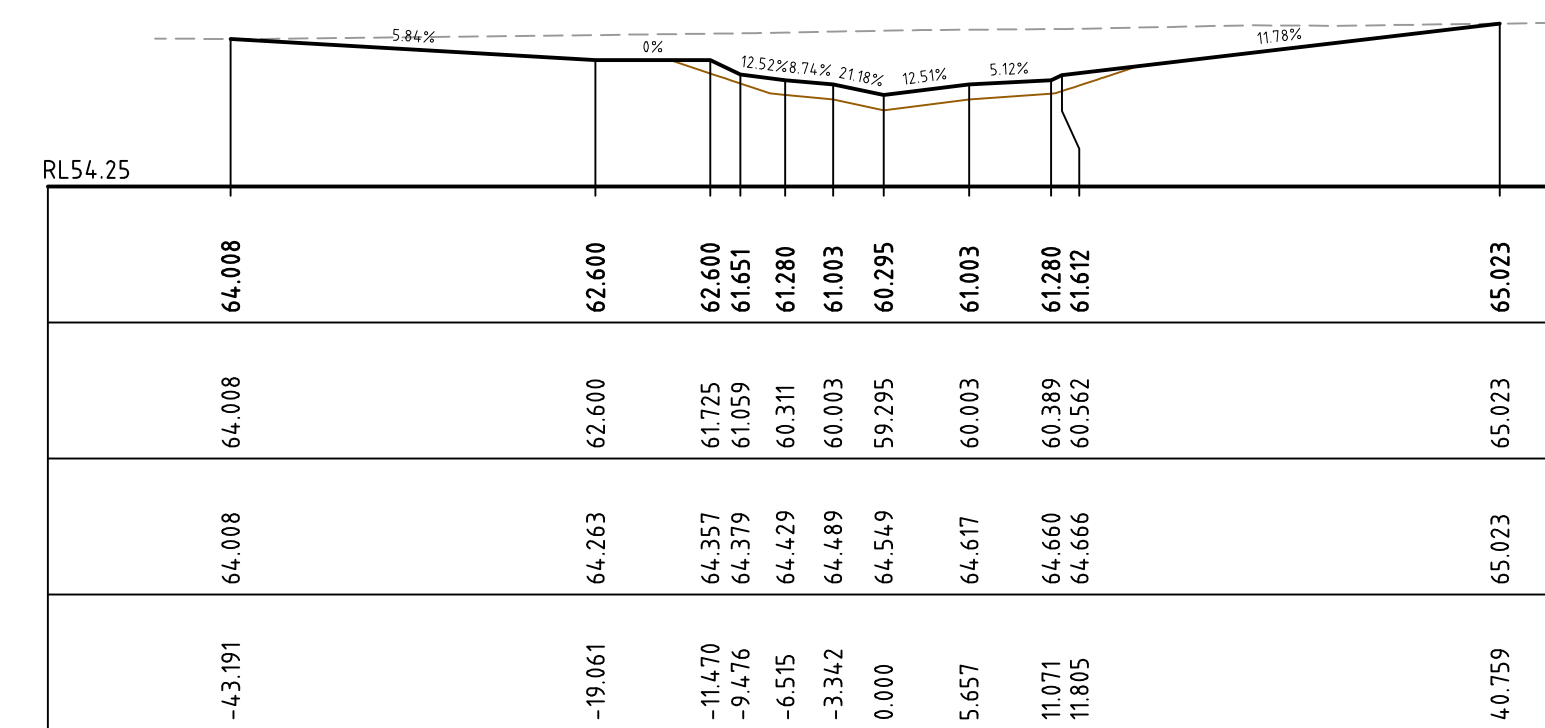
CH 500



CH 320

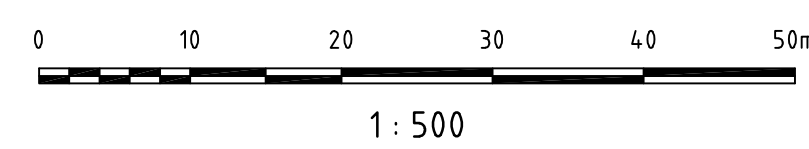


CH 400



CH 480

PROPOSED SURFACE LEVEL	65.285	61.841	61.600	61.163	60.429	61.163	61.600	61.874	65.501
PROPOSED BULK SURFACE LEVEL	65.285	61.712	61.243	60.163	59.429	60.163	61.218	61.583	65.501
EXISTING SURFACE LEVEL	65.285	65.464	65.476	65.483	65.445	65.407	65.313	65.356	65.501
CENTRELINE OFFSET	-50.051	-10.022	-8.609	-2.897	0.000	2.896	8.609	9.637	21.623



ASHTON COAL

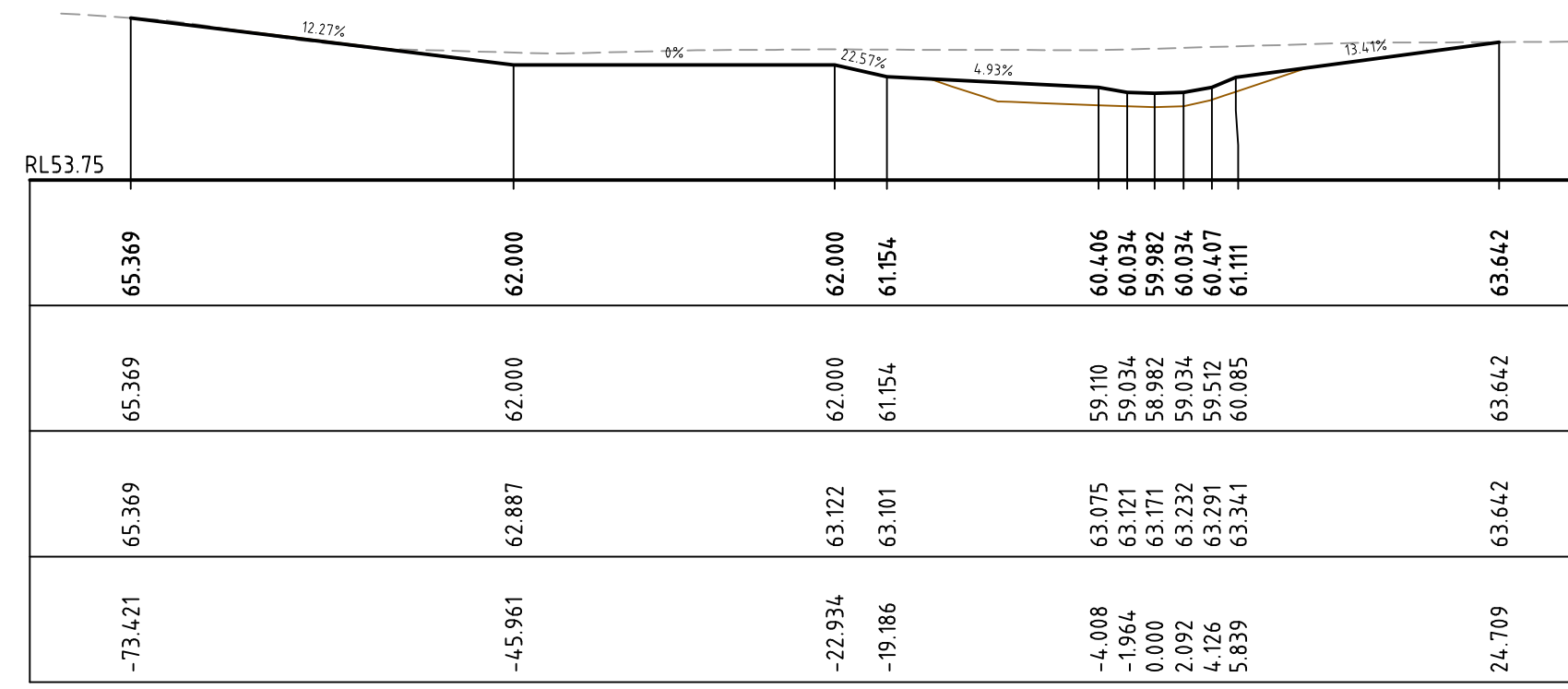
Status	FOR APPROVAL	
Scales	1:500	Current Issue Signatures
Original Size	A1	Drawn
Height Datum	AHD	Designed
Grid		Checked
		Approved

Project	BOWMANS CREEK CAMBERWELL	
Title	EASTERN DIVERSION CROSS SECTION - SHEET 3	

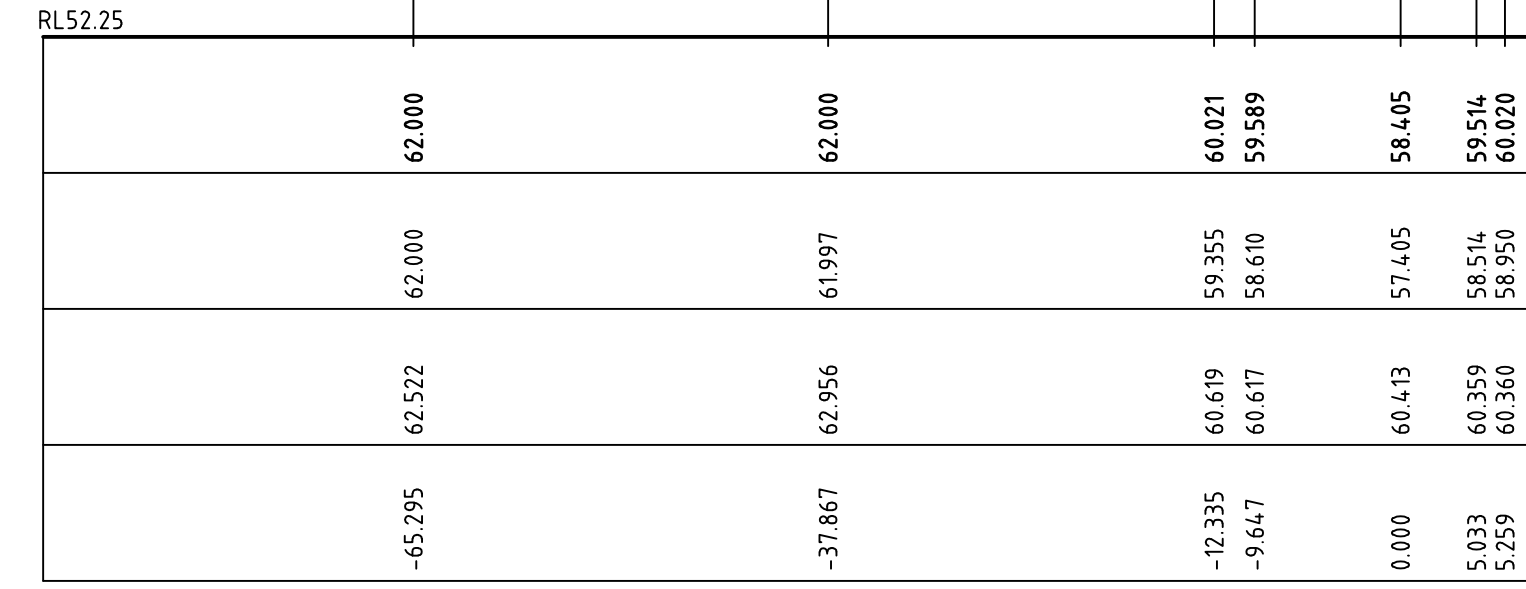
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PI	ISSUE FOR REVIEW	06-10-09
Issue	Description	Date

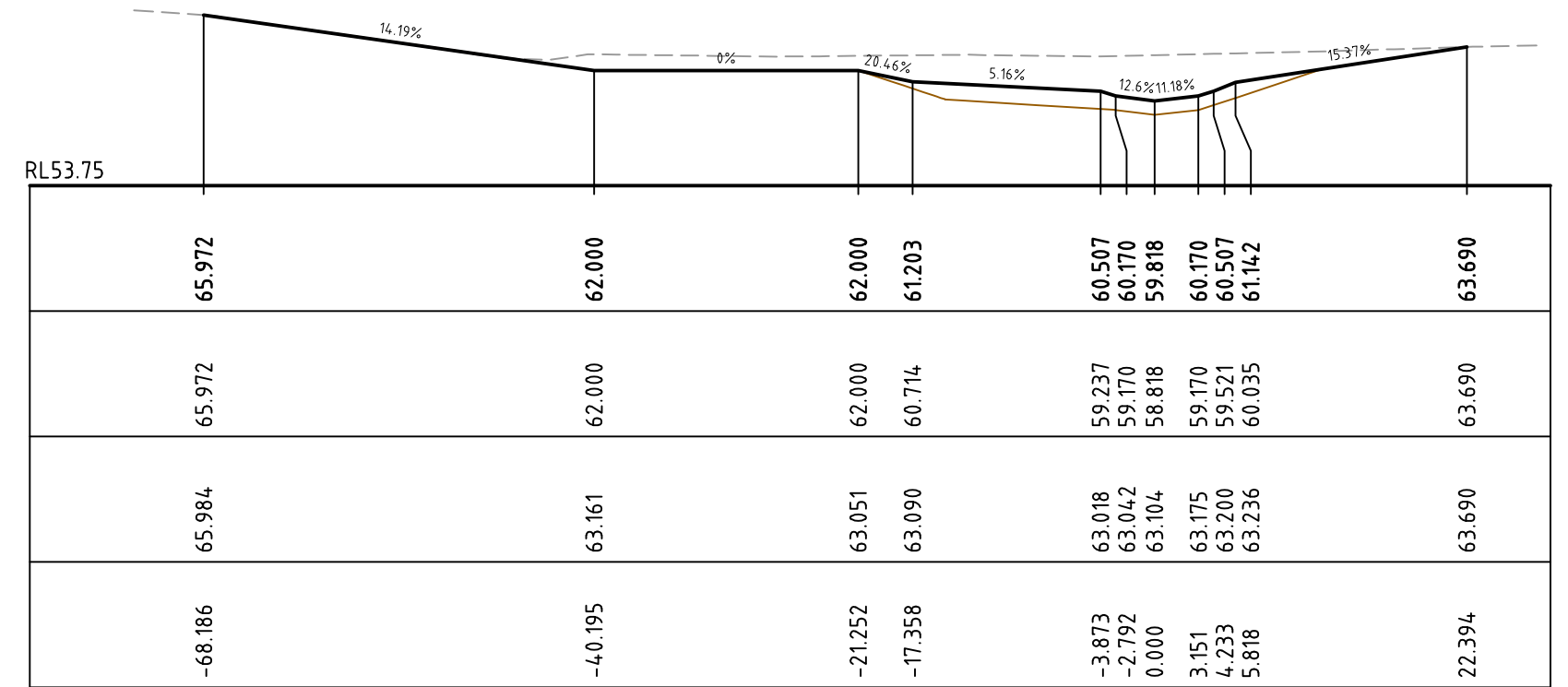
Drawing No.	Project No.	Issue
C010	AA002659	P1



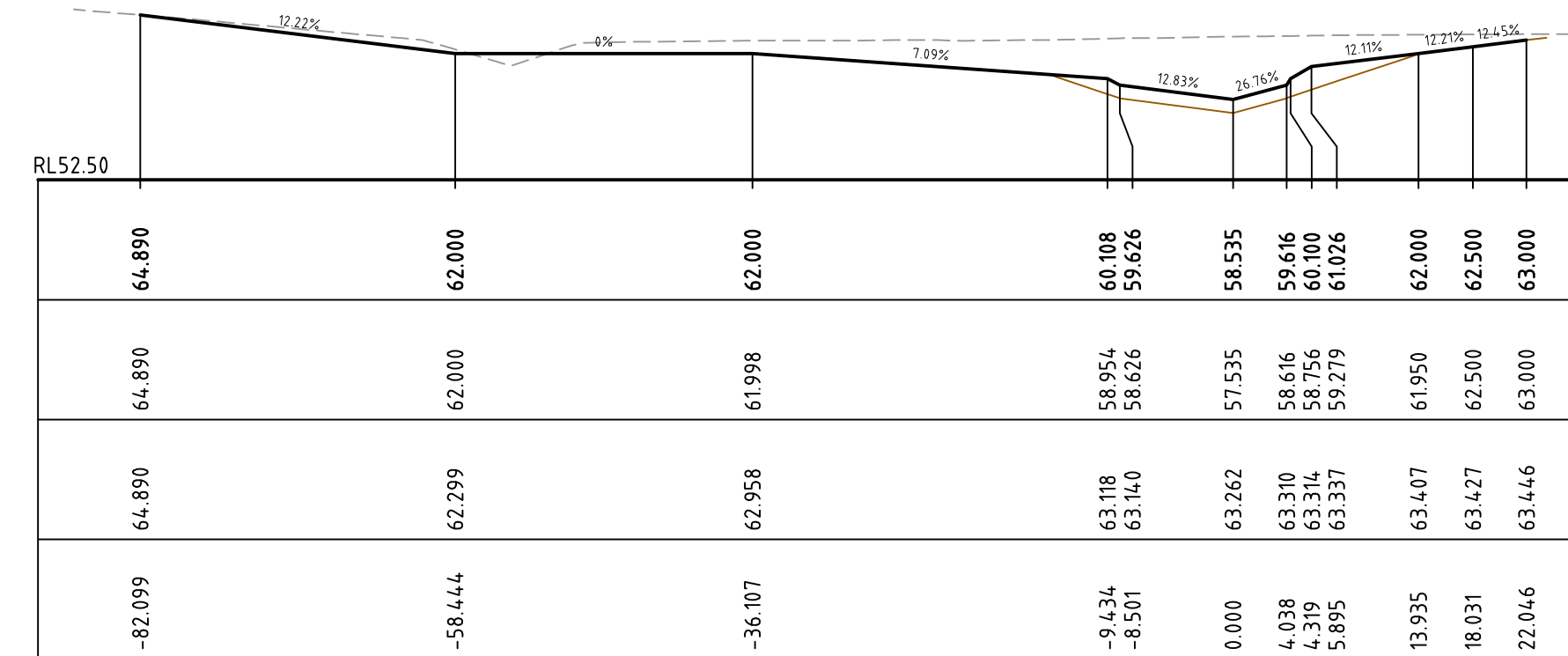
CH 760



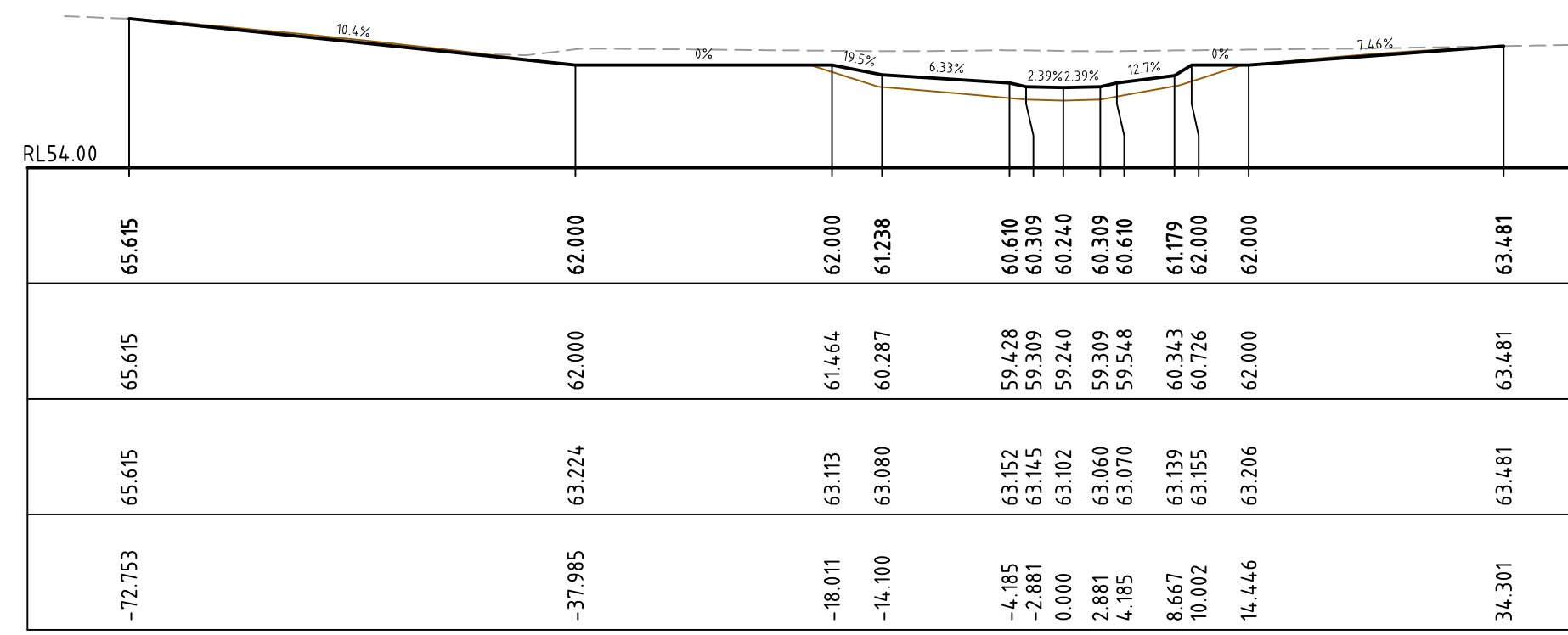
CH 840



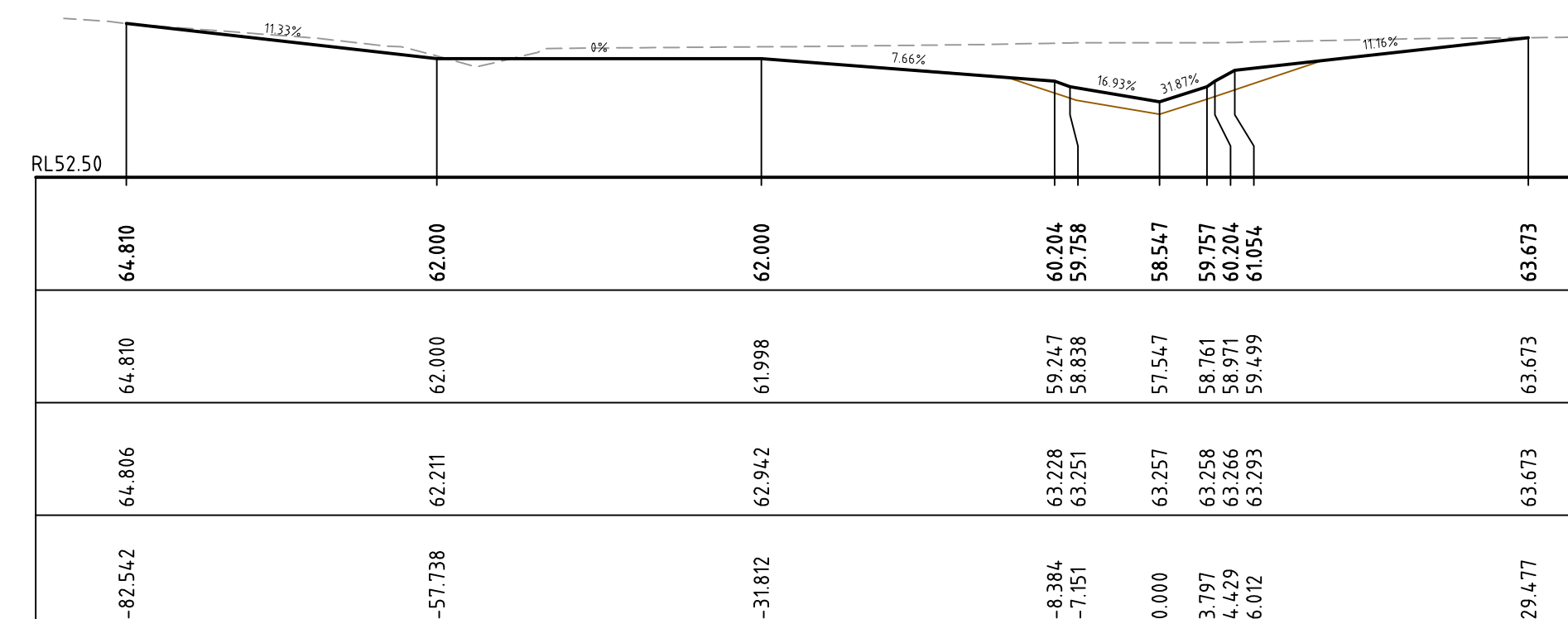
CH 740



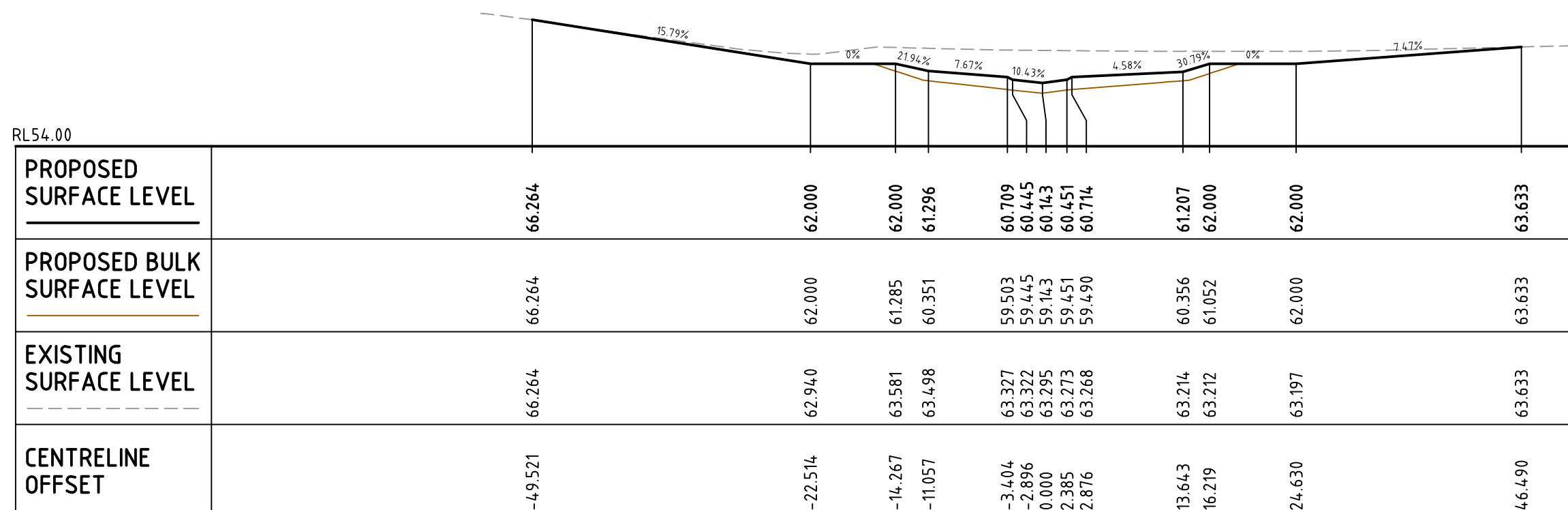
CH 820



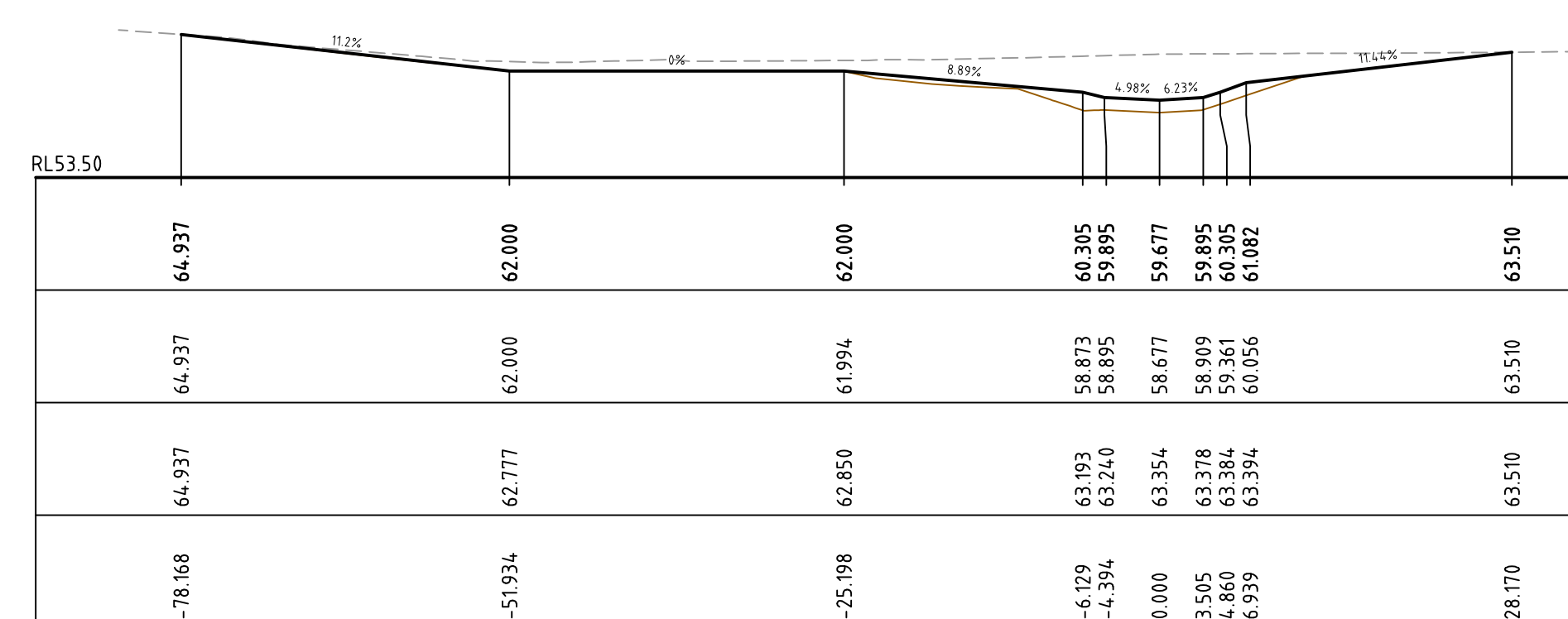
CH 720



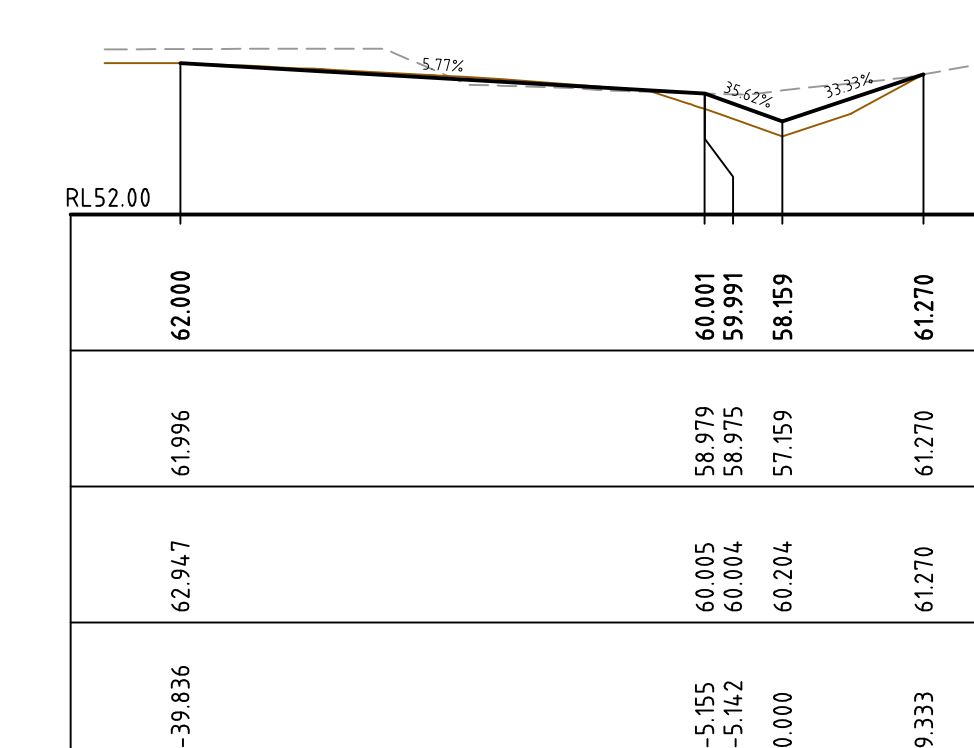
CH 800



CH 700

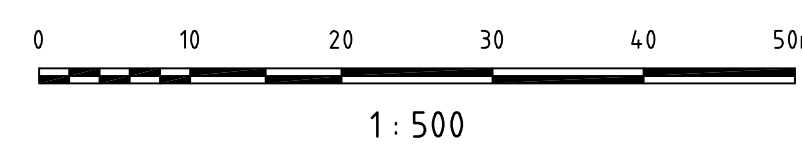


CH 780



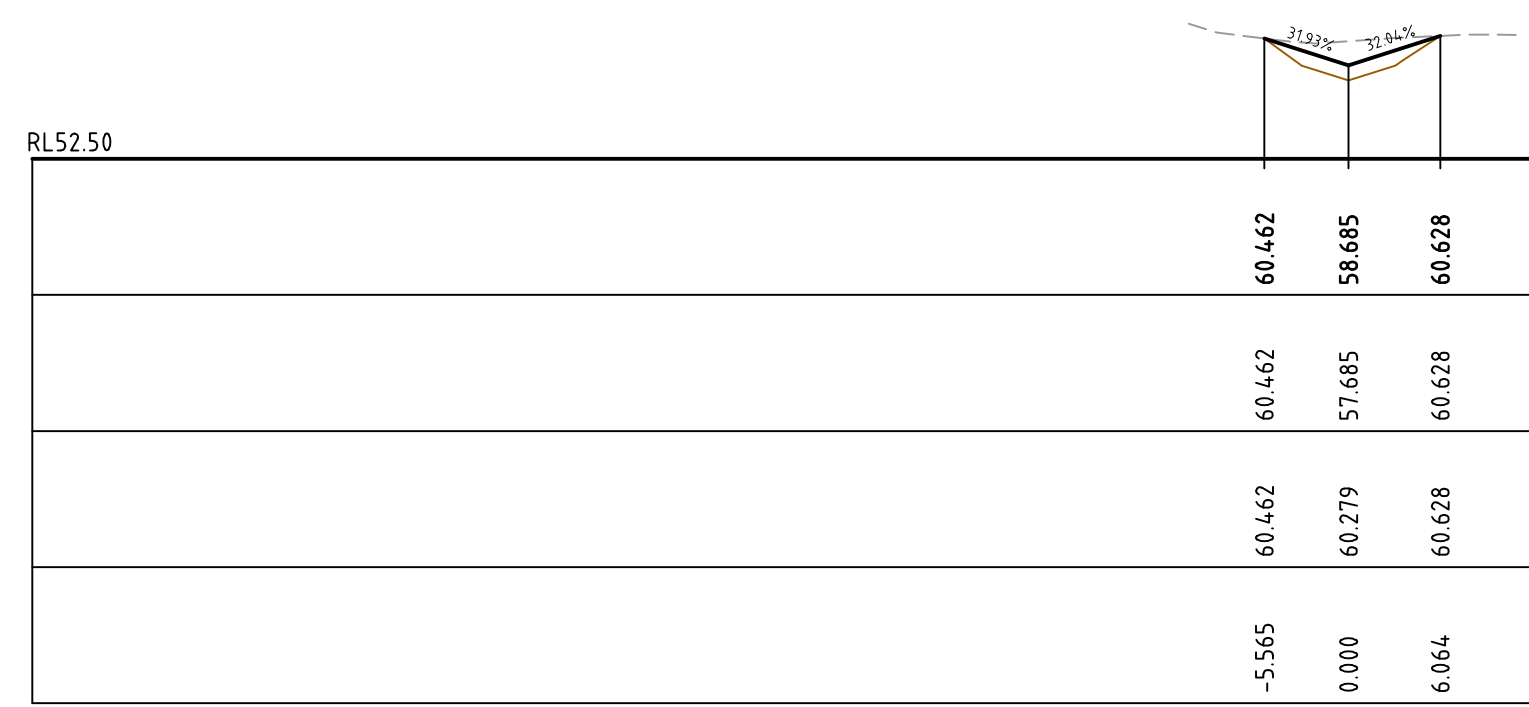
CH 860

	PROPOSED SURFACE LEVEL	PROPOSED BULK SURFACE LEVEL	EXISTING SURFACE LEVEL	CENTRELINE OFFSET
	66.264	66.264	66.264	-49.521
	62.000	62.000	62.940	-22.514
	62.000	61.285	63.581	-14.267
	61.296	60.351	63.498	-11.057
	60.709	59.503	63.327	-3.404
	60.445	59.445	63.322	-2.896
	60.451	60.443	63.395	0.000
	60.714	60.451	63.451	2.385
	61.207	60.714	63.586	2.876
	62.000	60.714	63.643	13.643
	62.000	60.356	63.214	16.219
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	62.000	62.000	63.197	24.430
	63.633	63.633	63.633	46.490



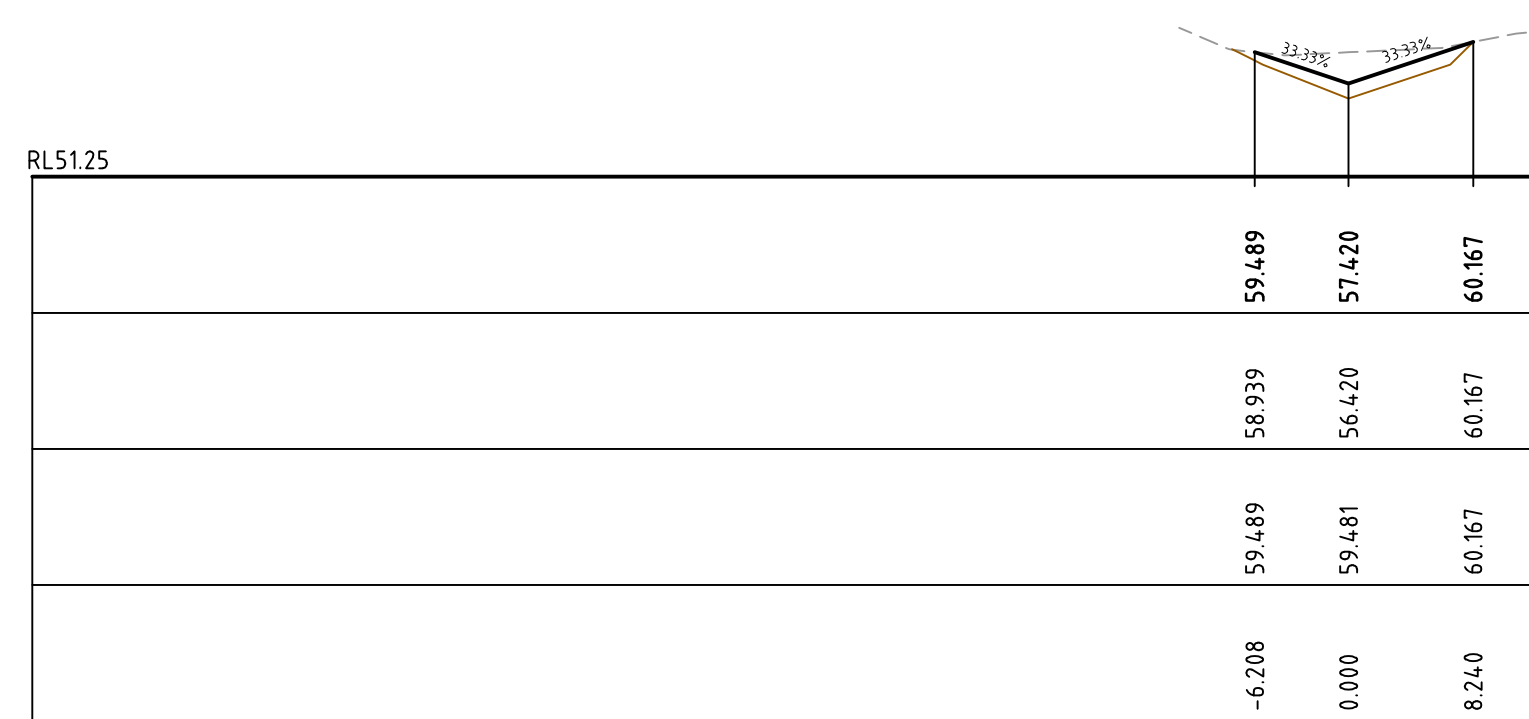
Client ASHTON COAL	Status FOR APPROVAL	Project BOWMANS CREEK CAMBERWELL	HYDER CONSULTING PTY LTD ABN 76 104 485 289 Level 5, 141 Walker St North Sydney NSW 2060 Australia Tel: +61 (0)2 8907 9000 Fax: +61 (0)2 8907 9001 www.hyderconsulting.com © Copyright reserved
	Scales 1500 Original Size A1 Height Datum AHD Grid	Current Issue Signatures Drawn Designed Checked Approved	
Drawing No. C012 - Project No. AA002659 - Issue P1		Date Plot/Ten: 9 Oct 2009 - 02:54PM File Name: F:\AA002659\E-CADVC-Civil\D-Final\C012-AA002659-NSD-00-EASTERN_DIVERSION_CROSS_SECTIONS_SHEET_5.dwg	

P1	ISSUE FOR REVIEW	06-10-09
Issue	Description	Date



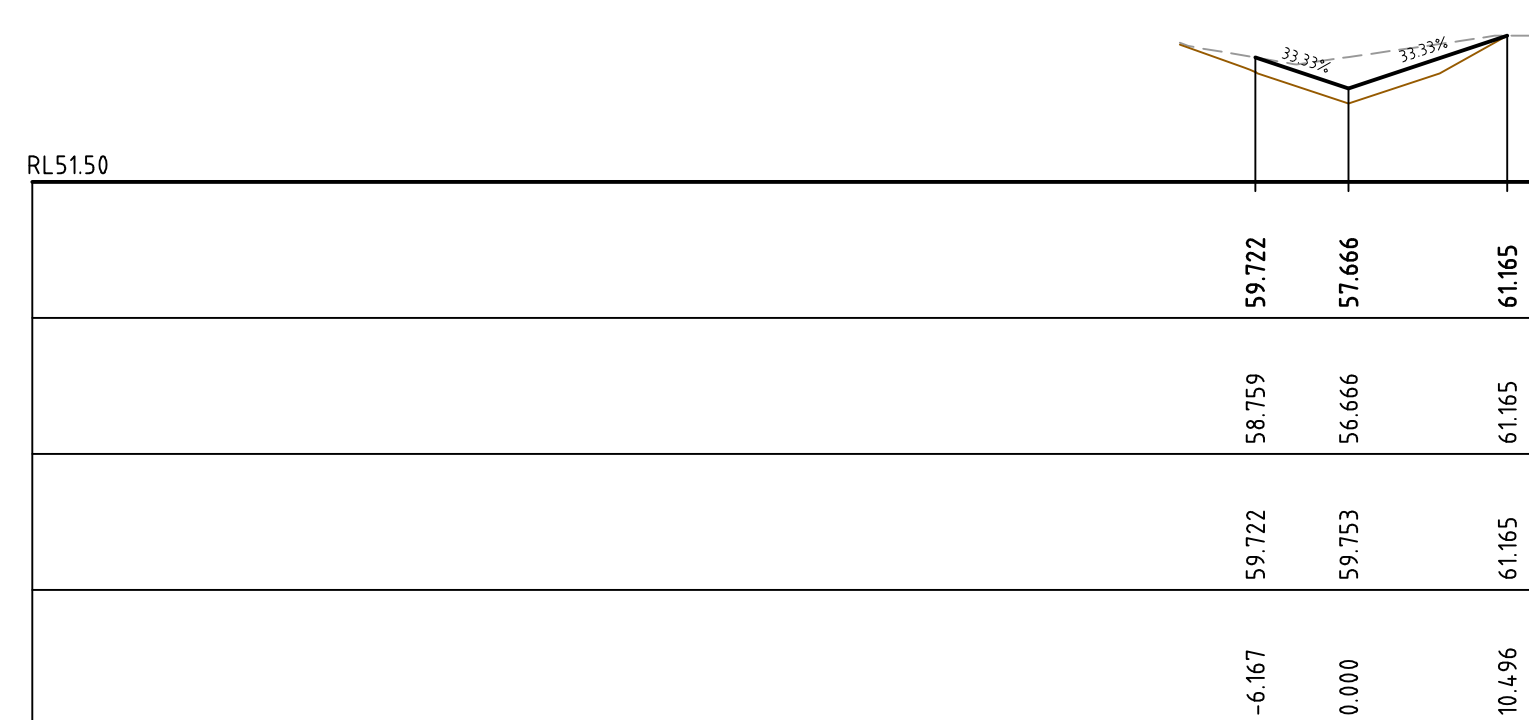
	60.442	58.685	60.628
	60.442	57.685	60.628
	60.442	60.279	60.628
	-5.565	0.000	6.064

CH 940



	59.489	57.420	60.167
	58.539	56.420	60.167
	59.489	59.481	60.167
	-6.208	0.000	8.240

CH 920



	59.722	57.666	61.165
	58.759	56.666	61.165
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	-6.167	0.000	10.496

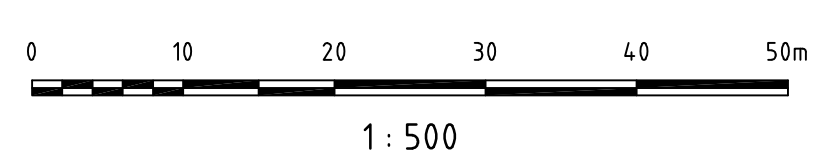
CH 900

	65.345	62.000	62.000	59.718	57.913	60.977
PROPOSED BULK SURFACE LEVEL	65.345	62.000	61.992	58.718	56.913	60.977
EXISTING SURFACE LEVEL	65.345	62.179	60.180	59.718	60.274	60.977
CENTRELINE OFFSET	-79.829	-35.308	-18.988	-5.416	0.000	9.193

CH 880

	59.622	59.660	59.659
	59.622	58.660	59.659
	59.622	59.660	59.659
	-0.302	0.000	0.413

CH 955.401



P1	ISSUE FOR REVIEW	06-10-09
Issue	Description	Date

ASHTON COAL

Client
ASHTON COAL

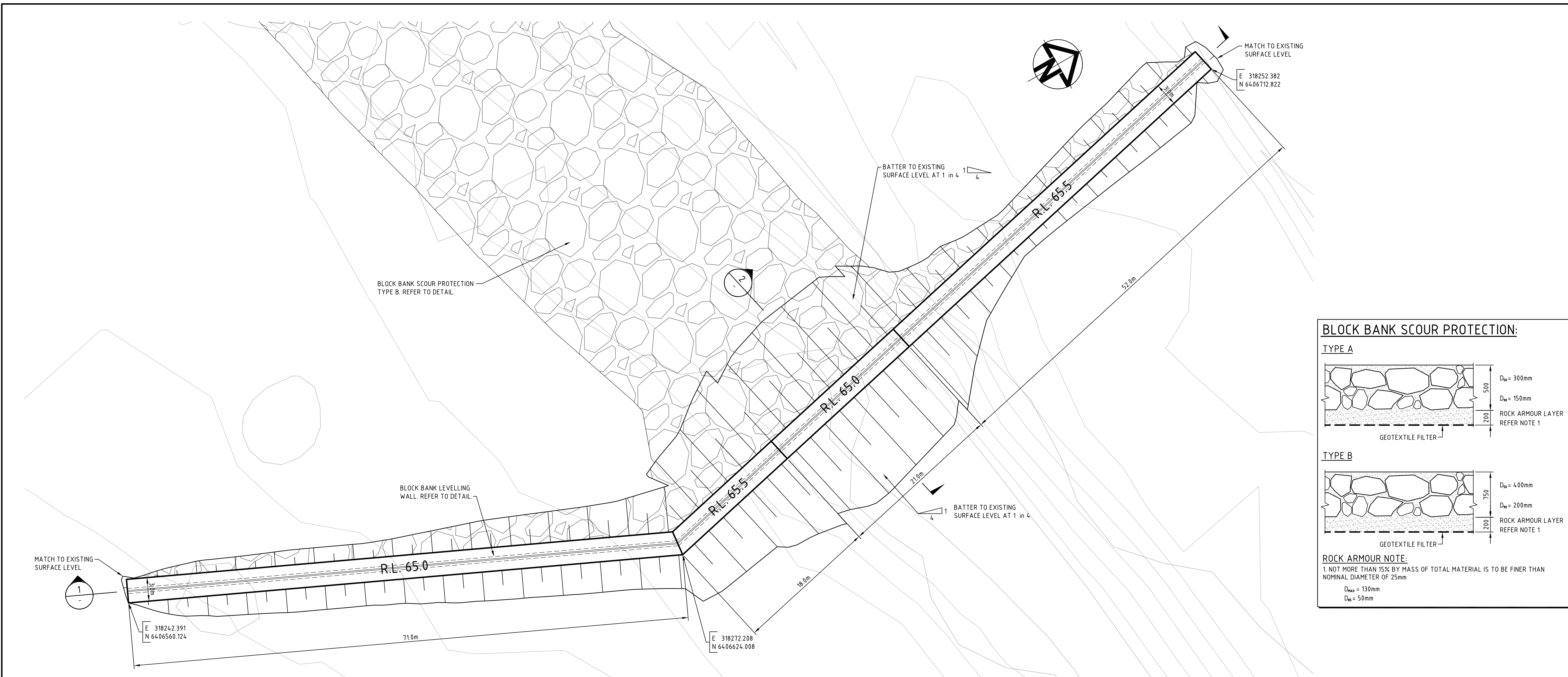
Status	FOR APPROVAL	
Scales	1:500	Current Issue Signatures
Original Size	A1	Designed
Height Datum	AHD	Checked
Grid		Approved

Project
**BOWMANS CREEK
CAMBERWELL**

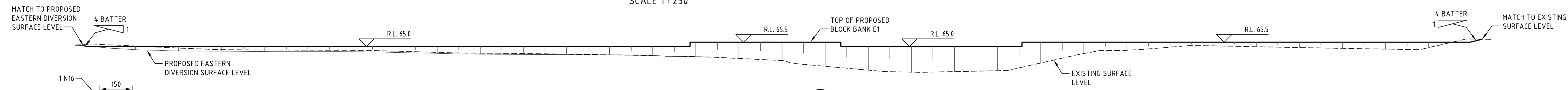
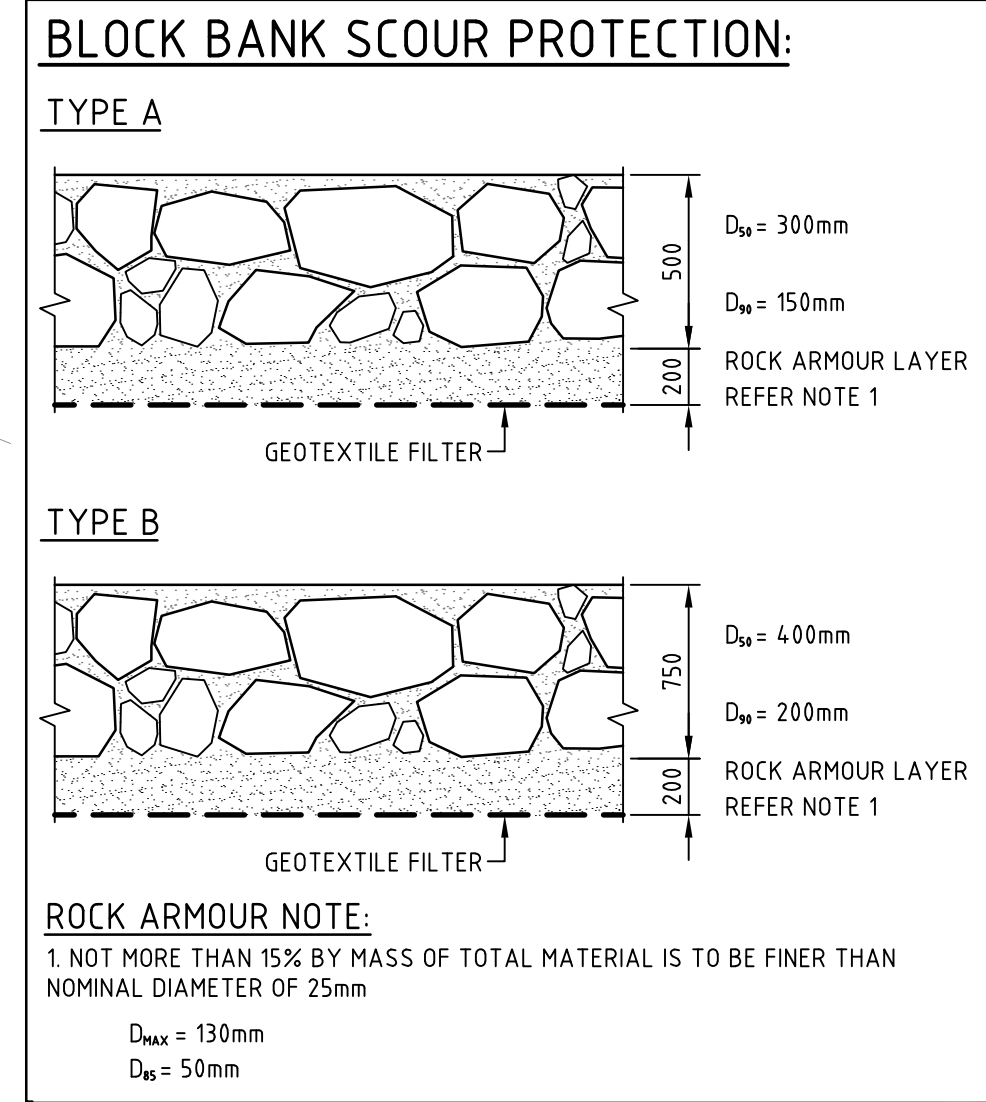
Title
**EASTERN DIVERSION
CROSS SECTION - SHEET 6**

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Australia
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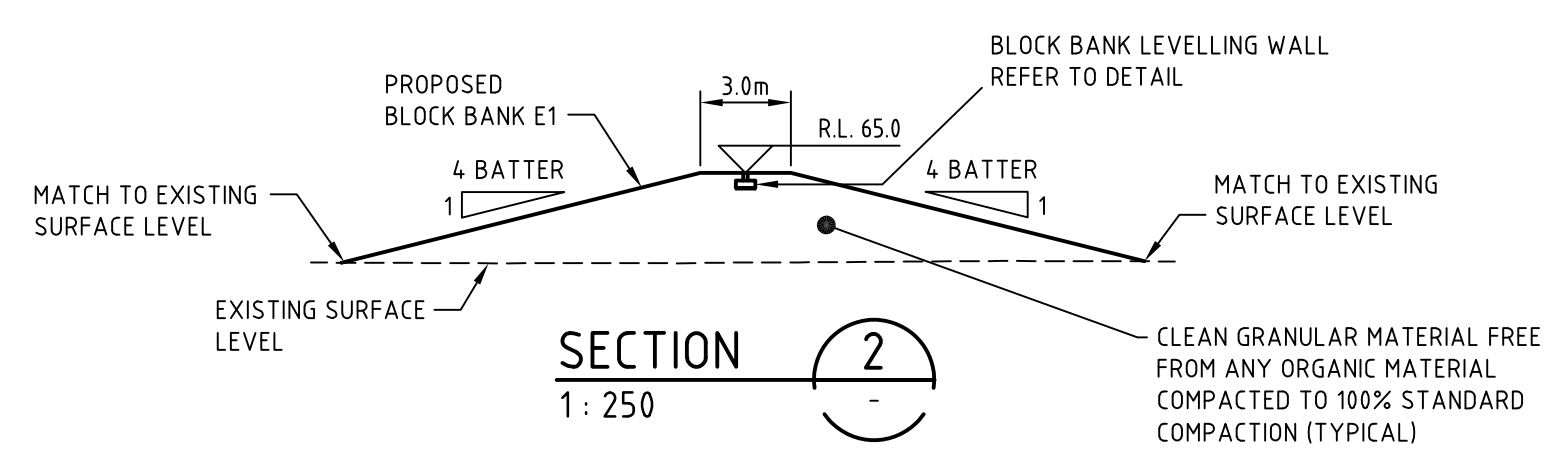
Drawing No. | Project No. | Issue
C013 - AA002659 - P1



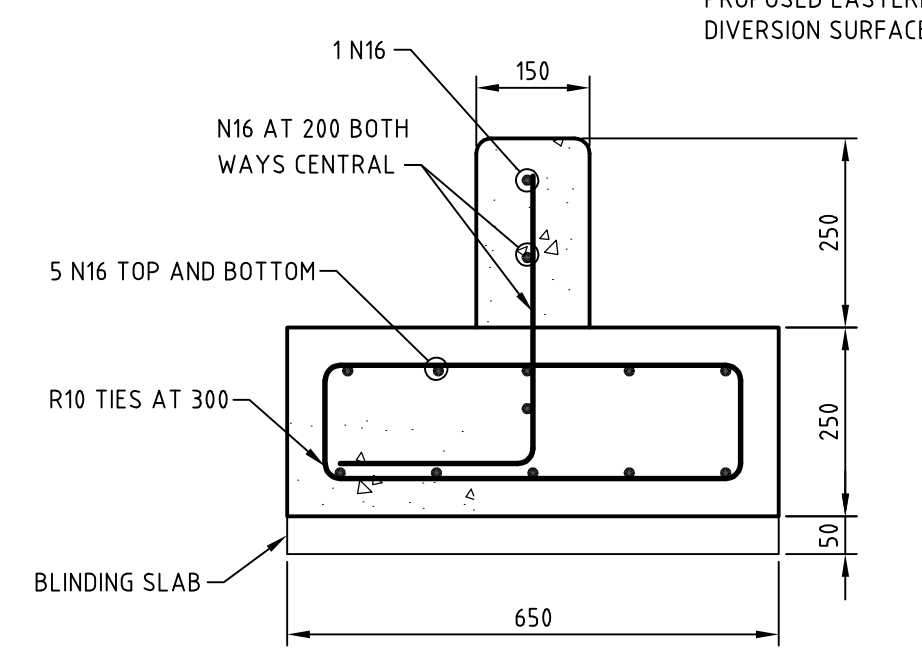
PLAN - BLOCK BANK E1
SCALE 1: 250



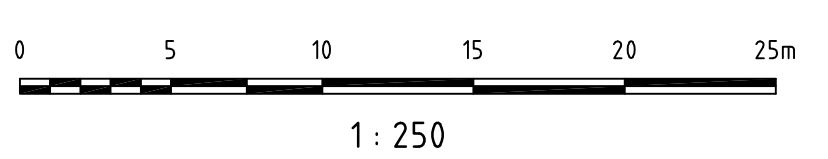
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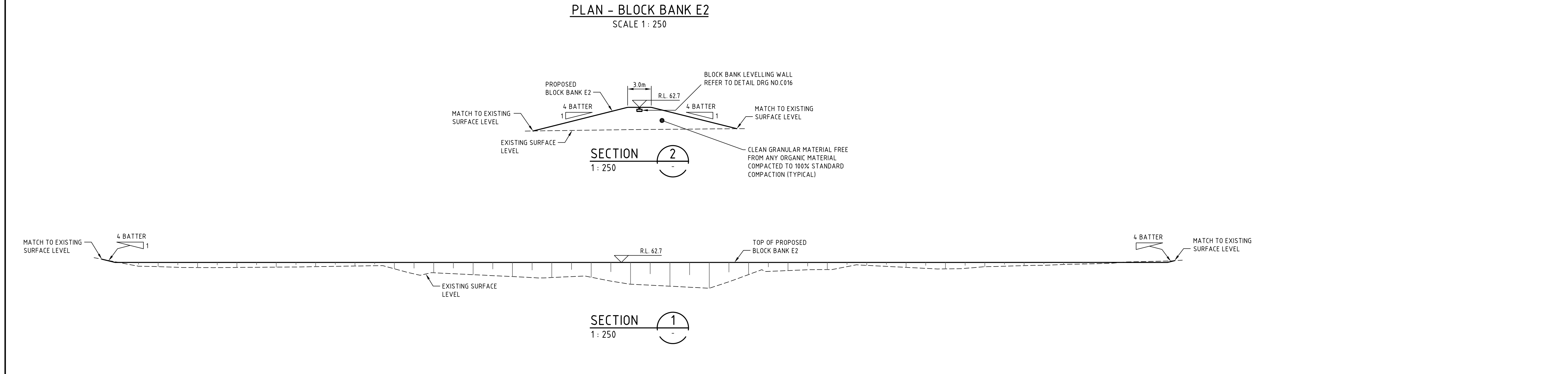
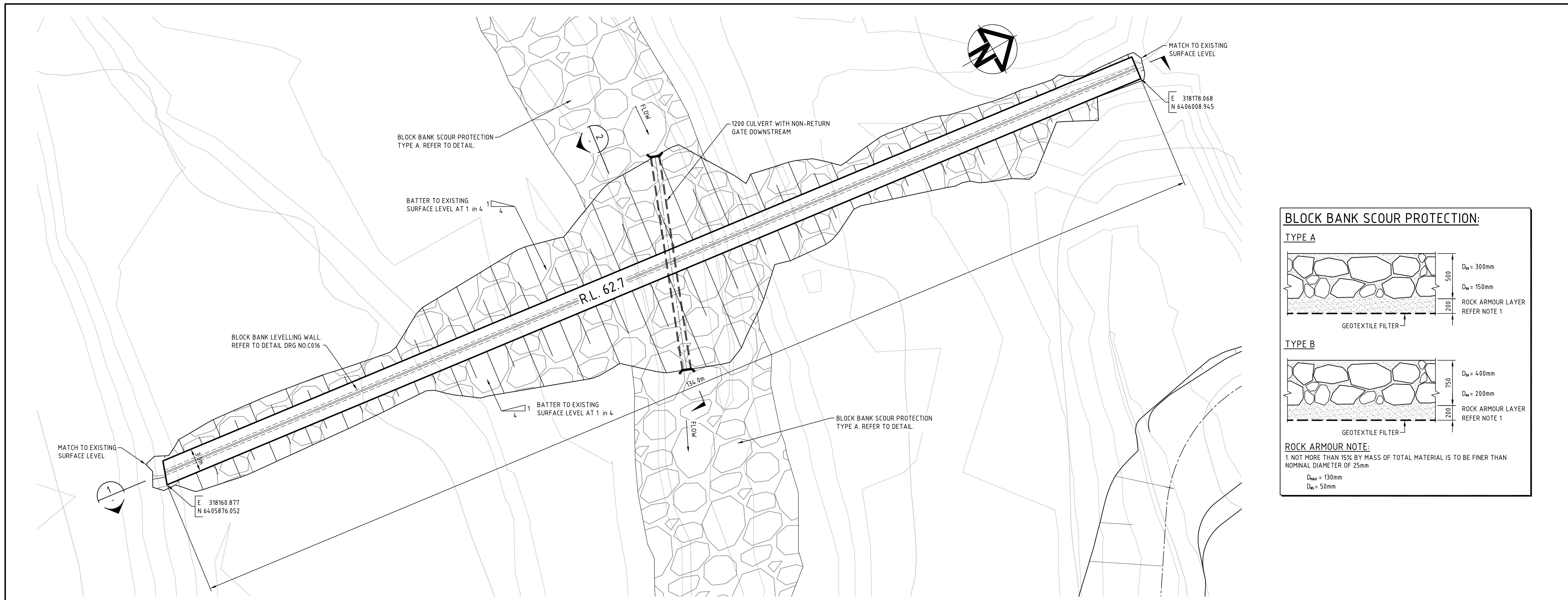
SECTION 2
1: 250



BLOCK BANK LEVELLING WALL
1: 10



<p>P1 ISSUE FOR REVIEW 06-10-09</p>		<p>Client ASHTON COAL</p>	<p>Status FOR APPROVAL</p>	<p>Project BOWMANS CREEK CAMBERWELL</p>		<p>HYDER CONSULTING PTY LTD ABN 76 104 485 289 Level 5, 141 Walker St North Sydney NSW 2060 Australia Tel: +61 (0)2 8907 9000 Fax: +61 (0)2 8907 9001 www.hyderconsulting.com © Copyright reserved</p>
<p>Issue Description Date</p>				<p>AS SHOWN</p>	<p>Current Issue Signatures</p>	
			<p>Original Size A1</p>	<p>Designed</p>	<p>Drawing No. Project No. Issue C016 - AA002659 - P1</p>	
			<p>Height Datum AHD</p>	<p>Checked</p>		
			<p>Grid</p>	<p>Approved</p>		



BLOCK BANK SCOUR PROTECTION:

TYPE A

$D_{90} = 300\text{mm}$
 $D_{10} = 150\text{mm}$
ROCK ARMOUR LAYER REFER NOTE 1
GEOTEXTILE FILTER

TYPE B

$D_{90} = 400\text{mm}$
 $D_{10} = 200\text{mm}$
ROCK ARMOUR LAYER REFER NOTE 1
GEOTEXTILE FILTER

ROCK ARMOUR NOTE:
1. NOT MORE THAN 15% BY MASS OF TOTAL MATERIAL IS TO BE FINER THAN NOMINAL DIAMETER OF 25mm

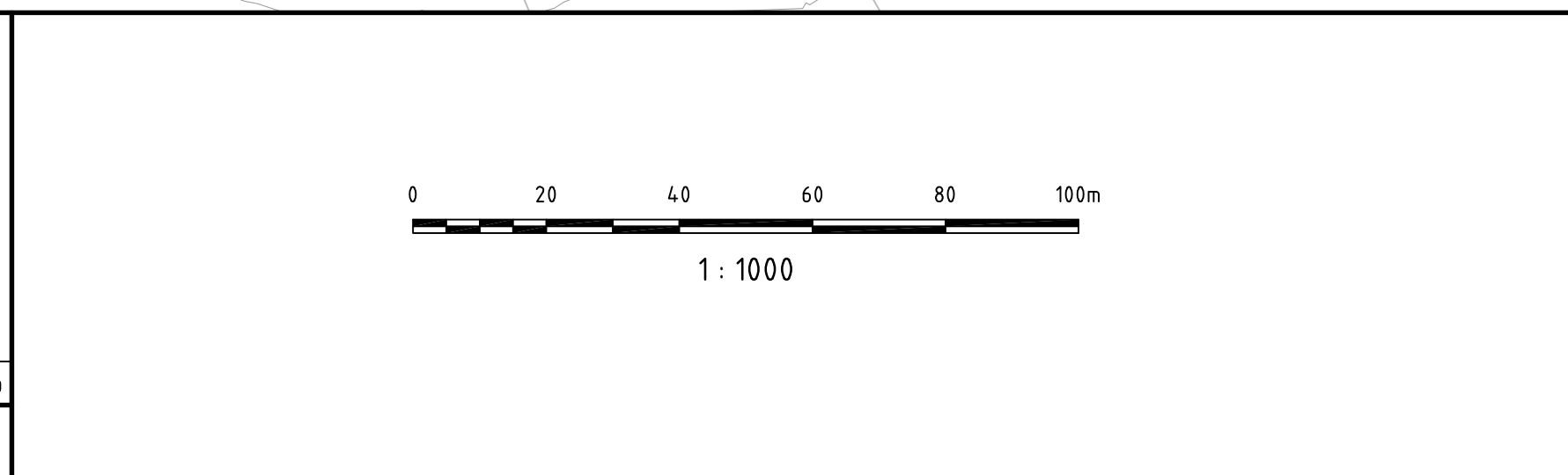
$D_{max} = 130\text{mm}$
 $D_{95} = 50\text{mm}$

P1 ISSUE FOR REVIEW 06-10-09		ASHTON COAL	Status: FOR APPROVAL Scales: AS SHOWN Original Size: A1 Height Datum: AHD Grid:	Project: BOWMANS CREEK CAMBERWELL Title: EASTERN DIVERSION BLOCK BANK E2 PLAN AND DETAILS	 HYDER CONSULTING PTY LTD ABN 76 104 485 289 Level 5, 141 Walker St North Sydney NSW 2060 Australia Tel: +61 (0)2 8907 9000 Fax: +61 (0)2 8907 9001 www.hyderconsulting.com © Copyright reserved
Issue Description Date					



BULK EARTHWORKS VOLUMES - WESTERN DIVERSION	
VOLUME FROM EXISTING SURFACE LEVEL TO PROPOSED SURFACE LEVEL	
VOLUME =	CUT = -161,880 cu.m. FILL = 125 cu.m. BALANCE = -161,755 cu.m. OF CUT
VOLUME FROM PROPOSED SURFACE LEVEL TO PROPOSED BULK EARTHWORKS LEVEL	
VOLUME =	CUT = -14,510 cu.m. FILL = 0 cu.m. BALANCE = -14,510 cu.m. OF CUT
VOLUME FROM EXISTING SURFACE LEVEL TO PROPOSED BULK EARTHWORKS LEVEL	
VOLUME TOTAL =	CUT = -176,400 cu.m. FILL = 125 cu.m. BALANCE = -176,275 cu.m. OF CUT

P1	ISSUE FOR REVIEW	06-10-09
Issue	Description	Date



Client
ASHTON COAL

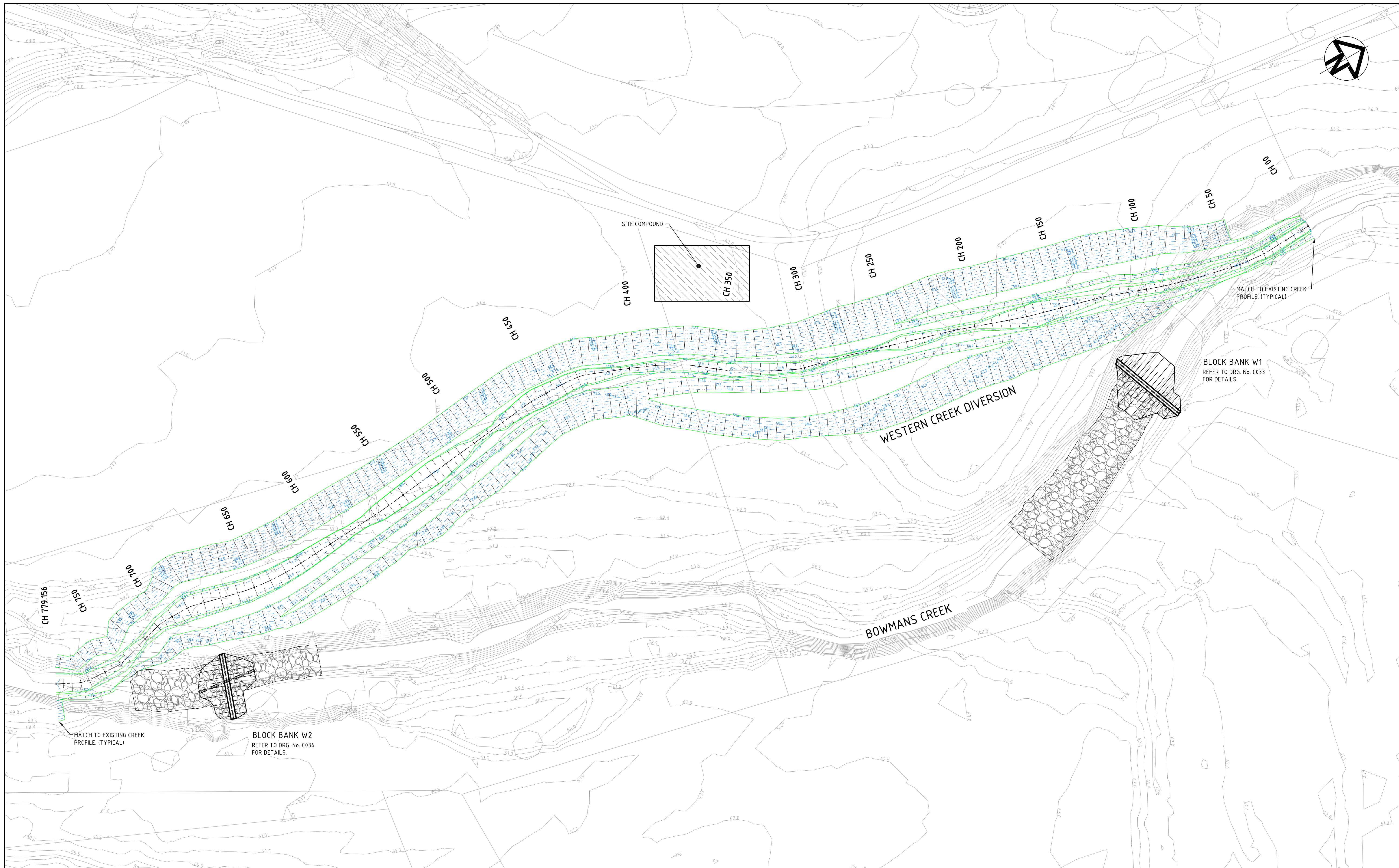
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Project
**BOWMANS CREEK
CAMBERWELL**

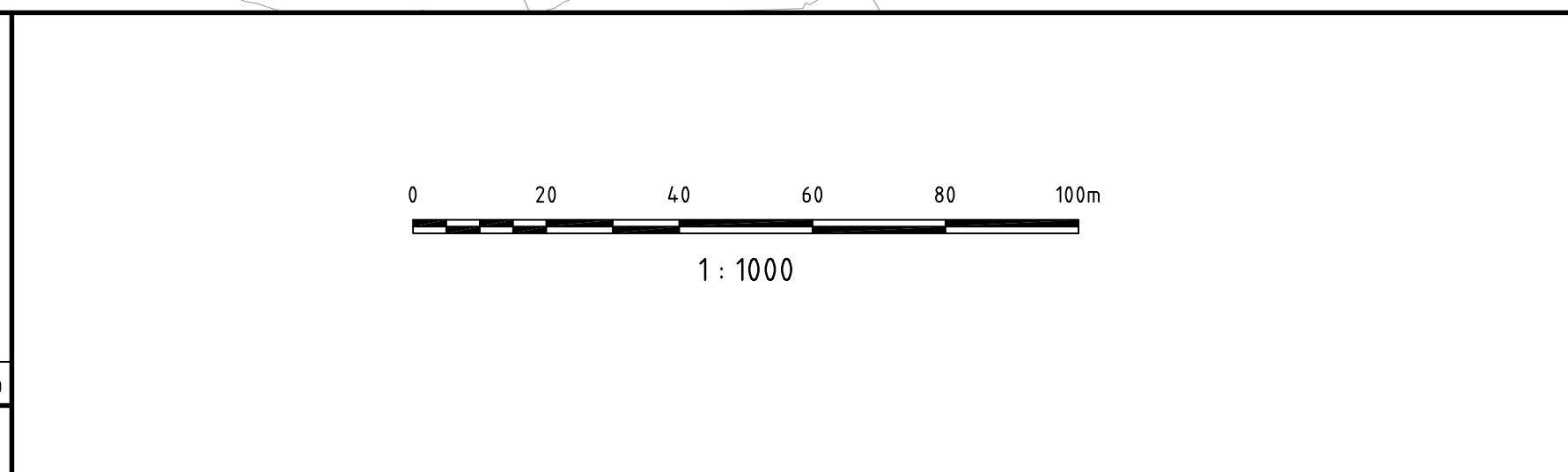
Title
**WESTERN DIVERSION
BULK EARTHWORKS PLAN**

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Drawing No. | Project No. | Issue
C024 - AA002659 - P1



P1	ISSUE FOR REVIEW	06-10-09
Issue	Description	Date




Client
ASHTON COAL

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Current Issue Signatures											
Drawn											
Designed											
Checked											
Approved											

Project
**BOWMANS CREEK
CAMBERWELL**

Title
**WESTERN DIVERSION
SITWORKS PLAN**



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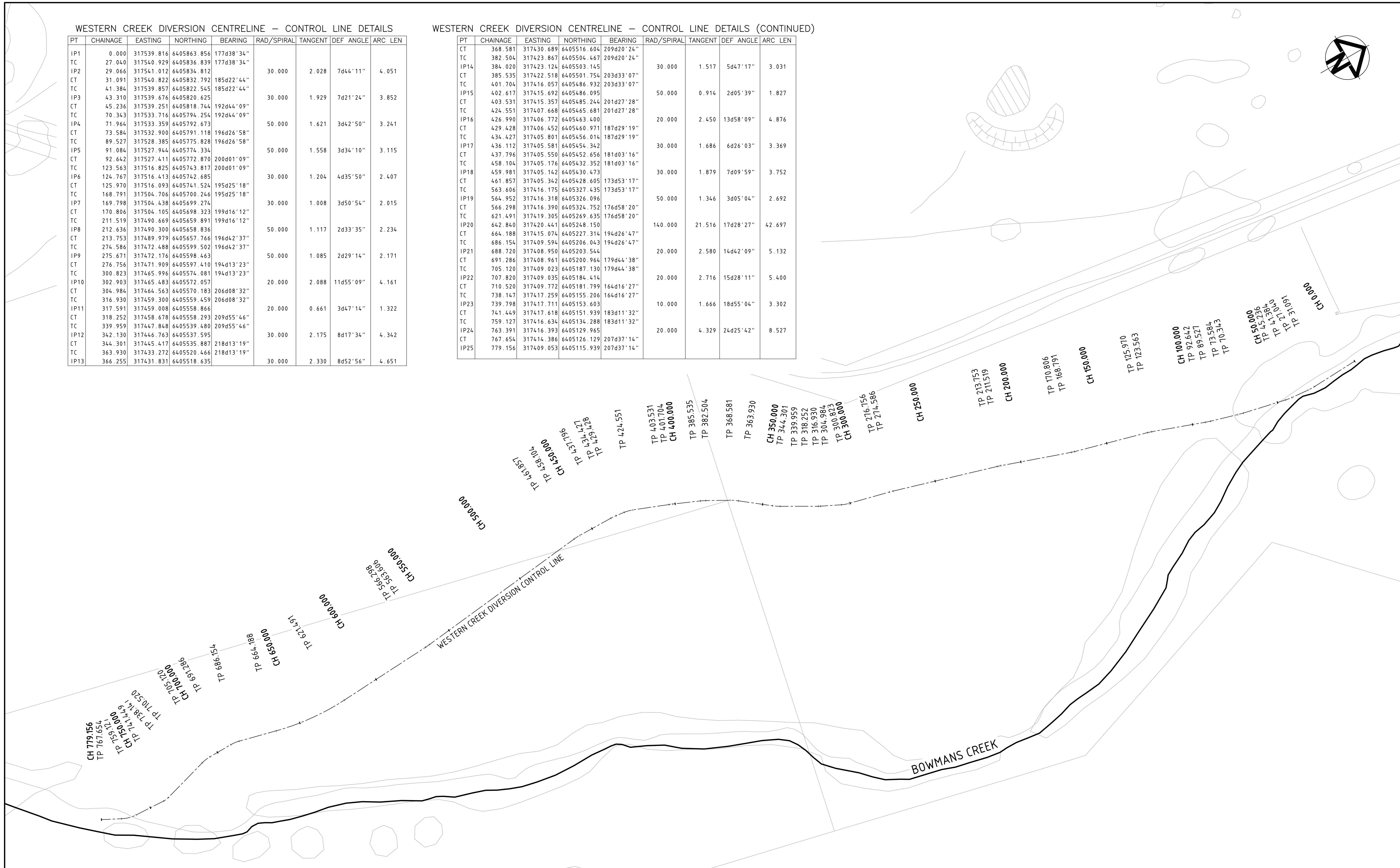
Drawing No. **C025** | Project No. **AA002659** | Issue **P1**

WESTERN CREEK DIVERSION CENTRELINE - CONTROL LINE DETAILS

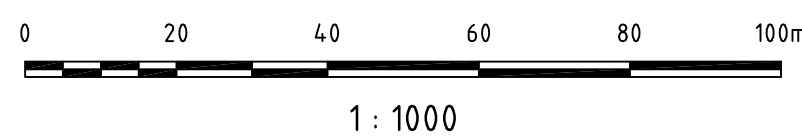
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	TANGENT	DEF ANGLE	ARC LEN
IP1	0.000	317539.816	6405863.856	177d38'34"				
TC	27.040	317540.929	6405836.839	177d38'34"				
IP2	29.066	317541.012	6405834.812		30.000	2.028	7d44'11"	4.051
CT	31.091	317540.822	6405832.792	185d22'44"				
TC	41.384	317539.857	6405822.545	185d22'44"				
IP3	43.310	317539.676	6405820.625		30.000	1.929	7d21'24"	3.852
CT	45.236	317539.251	6405818.744	192d44'09"				
TC	70.343	317533.716	6405794.254	192d44'09"				
IP4	71.964	317533.359	6405792.673		50.000	1.621	3d42'50"	3.241
CT	73.584	317532.900	6405791.118	196d26'58"				
TC	89.527	317528.385	6405775.828	196d26'58"				
IP5	91.084	317527.944	6405774.334		50.000	1.558	3d34'10"	3.115
CT	92.642	317527.411	6405772.870	200d01'09"				
TC	123.563	317516.825	6405743.817	200d01'09"				
IP6	124.767	317516.413	6405742.685		30.000	1.204	4d35'50"	2.407
CT	125.970	317516.093	6405741.524	195d25'18"				
TC	168.791	317504.706	6405700.246	195d25'18"				
IP7	169.798	317504.438	6405699.274		30.000	1.008	3d50'54"	2.015
CT	170.806	317504.105	6405698.323	199d16'12"				
TC	211.519	317490.669	6405659.891	199d16'12"				
IP8	212.636	317490.300	6405658.836		50.000	1.117	2d33'35"	2.234
CT	213.753	317489.979	6405657.766	196d42'37"				
TC	274.586	317472.488	6405599.502	196d42'37"				
IP9	275.671	317472.176	6405598.463		50.000	1.085	2d29'14"	2.171
CT	276.756	317471.909	6405597.410	194d13'23"				
TC	300.823	317465.996	6405574.081	194d13'23"				
IP10	302.903	317465.483	6405572.057		20.000	2.088	11d55'09"	4.161
CT	304.984	317464.563	6405570.183	206d08'32"				
TC	316.930	317459.300	6405559.459	206d08'32"				
IP11	317.591	317459.008	6405558.866		20.000	0.661	3d47'14"	1.322
CT	318.252	317458.678	6405558.293	209d55'46"				
TC	339.959	317447.848	6405539.480	209d55'46"				
IP12	342.130	317446.763	6405537.595		30.000	2.175	8d17'34"	4.342
CT	344.301	317445.417	6405535.887	218d13'19"				
TC	363.930	317433.272	6405520.466	218d13'19"				
IP13	366.255	317431.831	6405518.635		30.000	2.330	8d52'56"	4.651

WESTERN CREEK DIVERSION CENTRELINE - CONTROL LINE DETAILS (CONTINUED)

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	TANGENT	DEF ANGLE	ARC LEN
CT	368.581	317430.689	6405516.604	209d20'24"				
TC	382.504	317423.867	6405504.467	209d20'24"				
IP14	384.020	317423.124	6405503.145		30.000	1.517	5d47'17"	3.031
CT	385.535	317422.518	6405501.754	203d33'07"				
TC	401.704	317416.057	6405486.932	203d33'07"				
IP15	402.617	317415.692	6405486.095		50.000	0.914	2d05'39"	1.827
CT	403.531	317415.357	6405485.244	201d27'28"				
TC	424.551	317407.668	6405465.681	201d27'28"				
IP16	426.990	317406.772	6405463.400		20.000	2.450	13d58'09"	4.876
CT	429.428	317406.452	6405460.971	187d29'19"				
TC	434.427	317405.801	6405456.014	187d29'19"				
IP17	436.112	317405.581	6405454.342		30.000	1.686	6d26'03"	3.369
CT	437.796	317405.550	6405452.656	181d03'16"				
TC	458.104	317405.176	6405432.352	181d03'16"				
IP18	459.981	317405.142	6405430.473		30.000	1.879	7d09'59"	3.752
CT	461.857	317405.342	6405428.605	173d53'17"				
TC	563.606	317416.175	6405327.435	173d53'17"				
IP19	564.952	317416.318	6405326.096		50.000	1.346	3d05'04"	2.692
CT	566.298	317416.390	6405324.752	176d58'20"				
TC	621.491	317419.305	6405269.635	176d58'20"				
IP20	642.840	317420.441	6405248.150		140.000	21.516	17d28'27"	42.697
CT	664.188	317415.074	6405227.314	194d26'47"				
TC	686.154	317409.594	6405206.043	194d26'47"				
IP21	688.720	317408.950	6405203.544		20.000	2.580	14d42'09"	5.132
CT	691.286	317408.961	6405200.964	179d44'38"				
TC	705.120	317409.023	6405187.130	179d44'38"				
IP22	707.820	317409.035	6405184.414		20.000	2.716	15d28'11"	5.400
CT	710.520	317409.772	6405181.799	164d16'27"				
TC	738.147	317417.259	6405155.206	164d16'27"				
IP23	739.798	317417.711	6405153.603		10.000	1.666	18d55'04"	3.302
CT	741.449	317417.618	6405151.939	183d11'32"				
TC	759.127	317416.634	6405134.288	183d11'32"				
IP24	763.391	317416.393	6405129.965		20.000	4.329	24d25'42"	8.527
CT	767.654	317414.386	6405126.129	207d37'14"				
IP25	779.156	317409.053	6405115.939	207d37'14"				



PI	ISSUE FOR REVIEW	06-10-09
Issue	Description	Date



Client	ASHTON COAL
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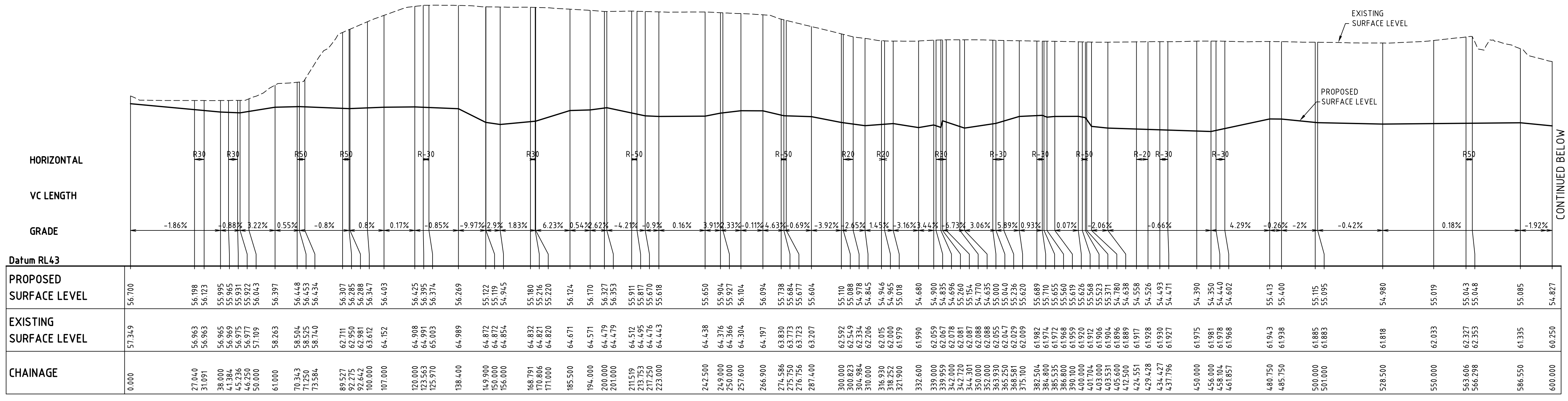
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Project	BOWMANS CREEK CAMBERWELL
Title	WESTERN DIVERSION SETOUT PLAN

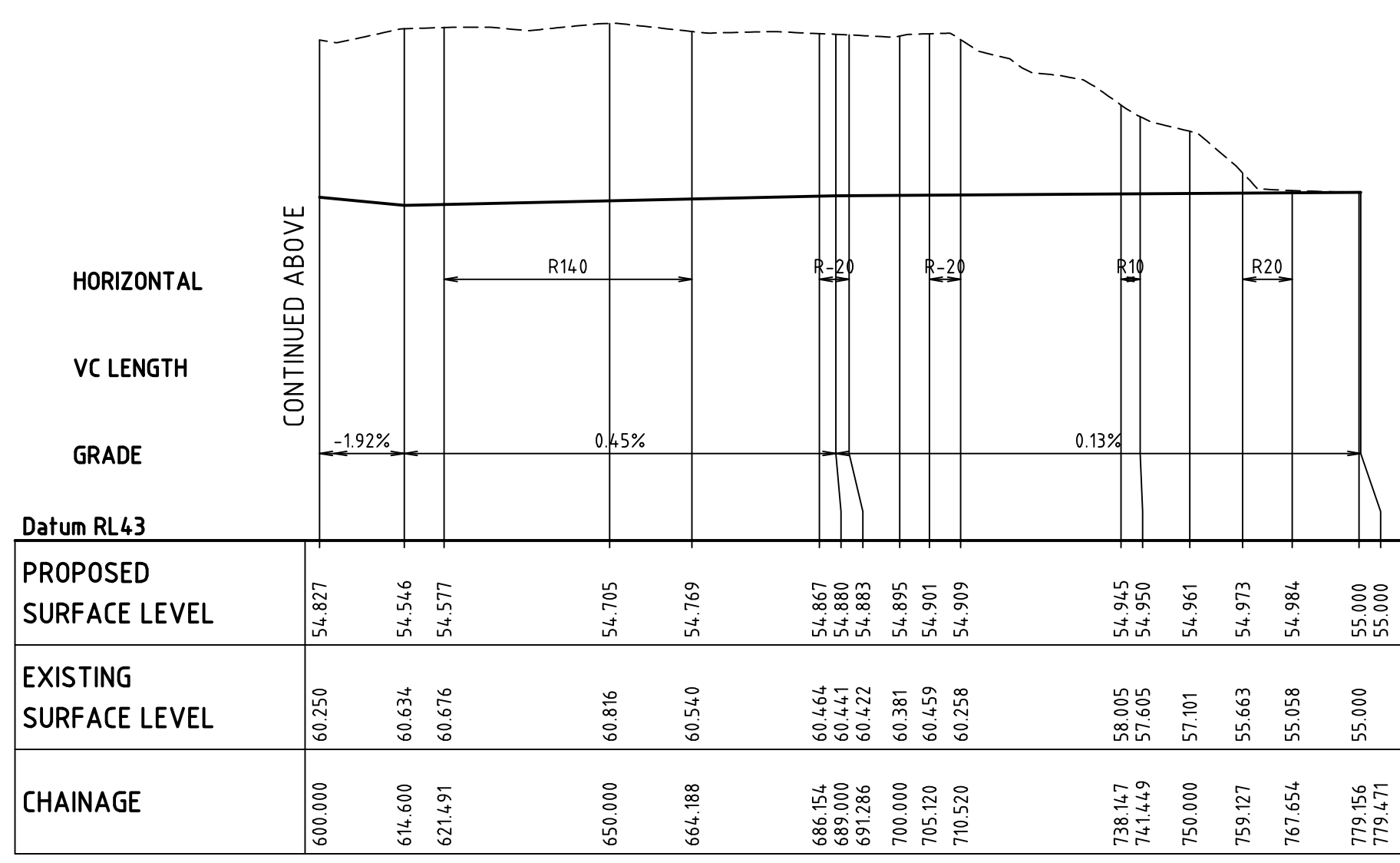
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Drawing No.	Project No.	Issue
C026	AA002659	P1

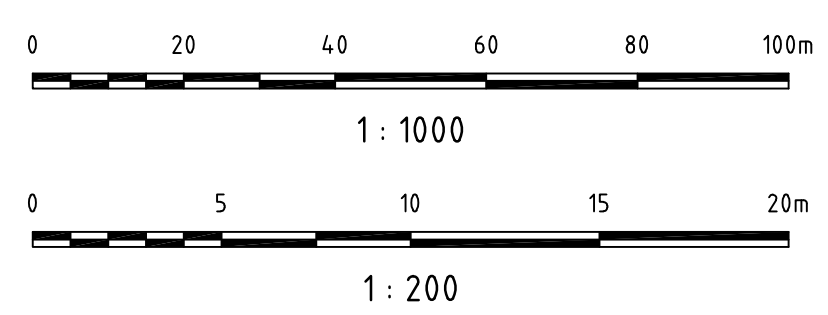


WESTERN DIVERSION CENTRELINE - LONGITUDINAL SECTION
SCALE 1:1000 HORI.
1:200 VERT.



WESTERN DIVERSION CENTRELINE - LONGITUDINAL SECTION (CONTINUED)
SCALE 1:1000 HORI.
1:200 VERT.

P1	ISSUE FOR REVIEW	06-10-09
Issue	Description	Date



Client
ASHTON COAL

Status	FOR APPROVAL	
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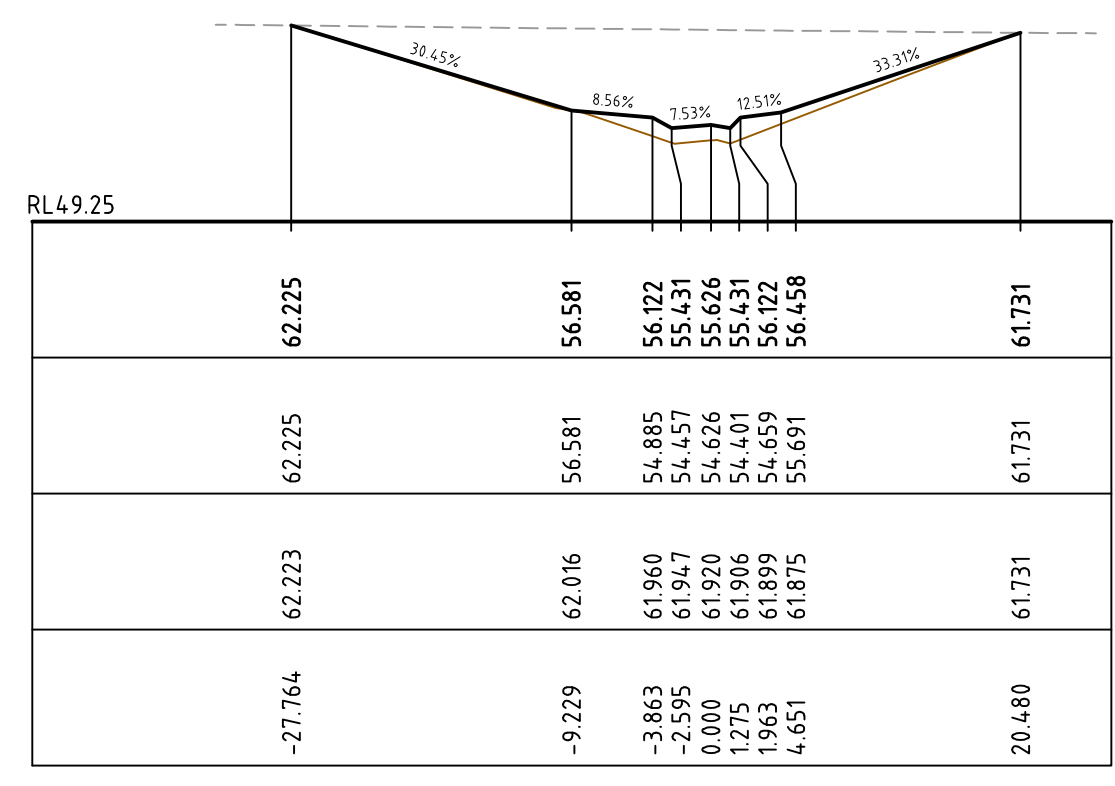
Project
**BOWMANS CREEK
CAMBERWELL**

Title
**WESTERN DIVERSION
LONGITUDINAL SECTION**

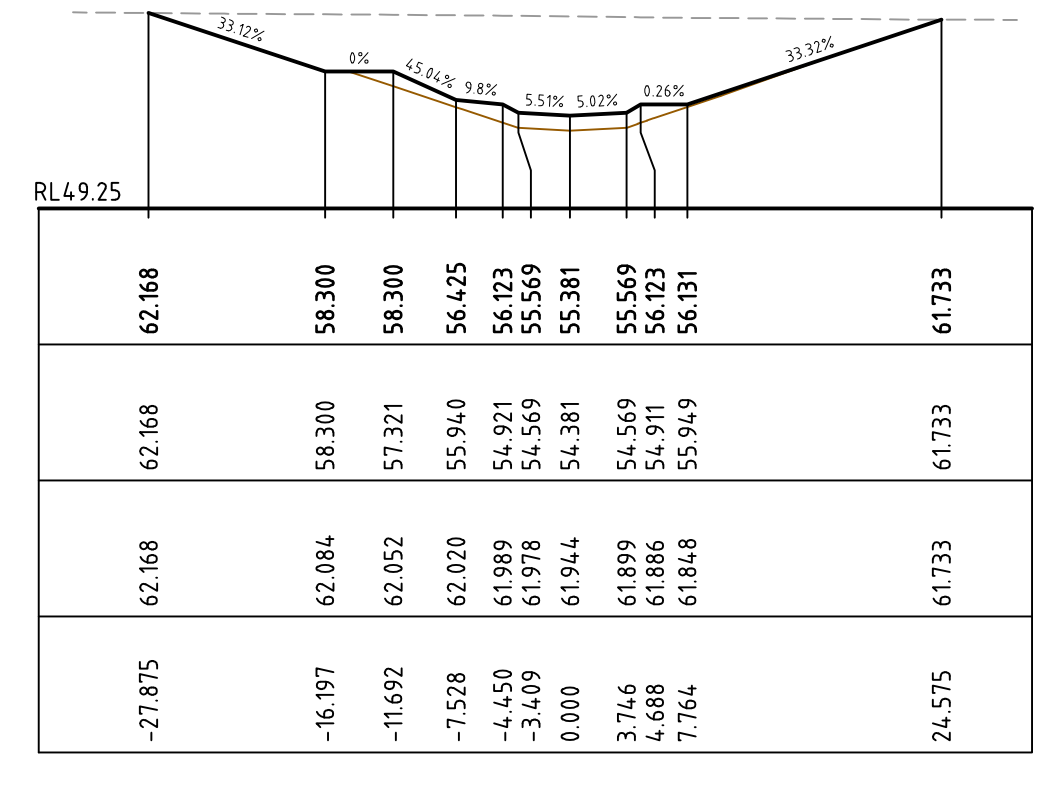
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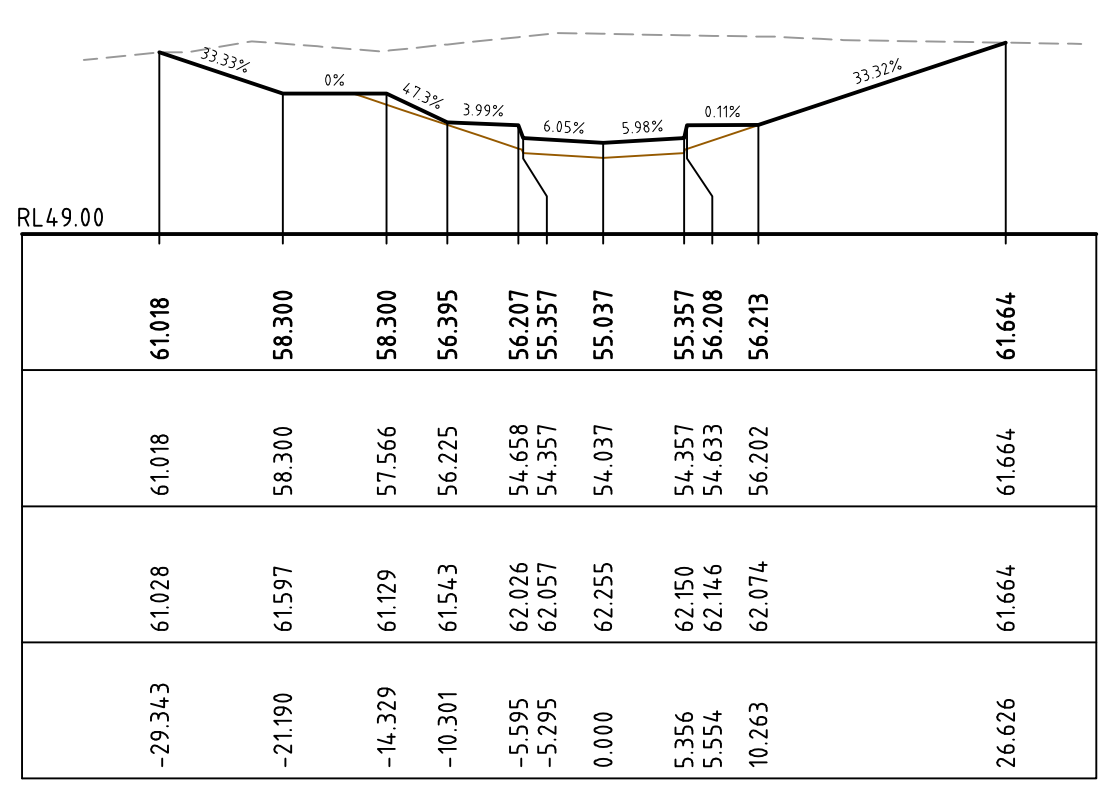
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C027 - AA002659 - P1



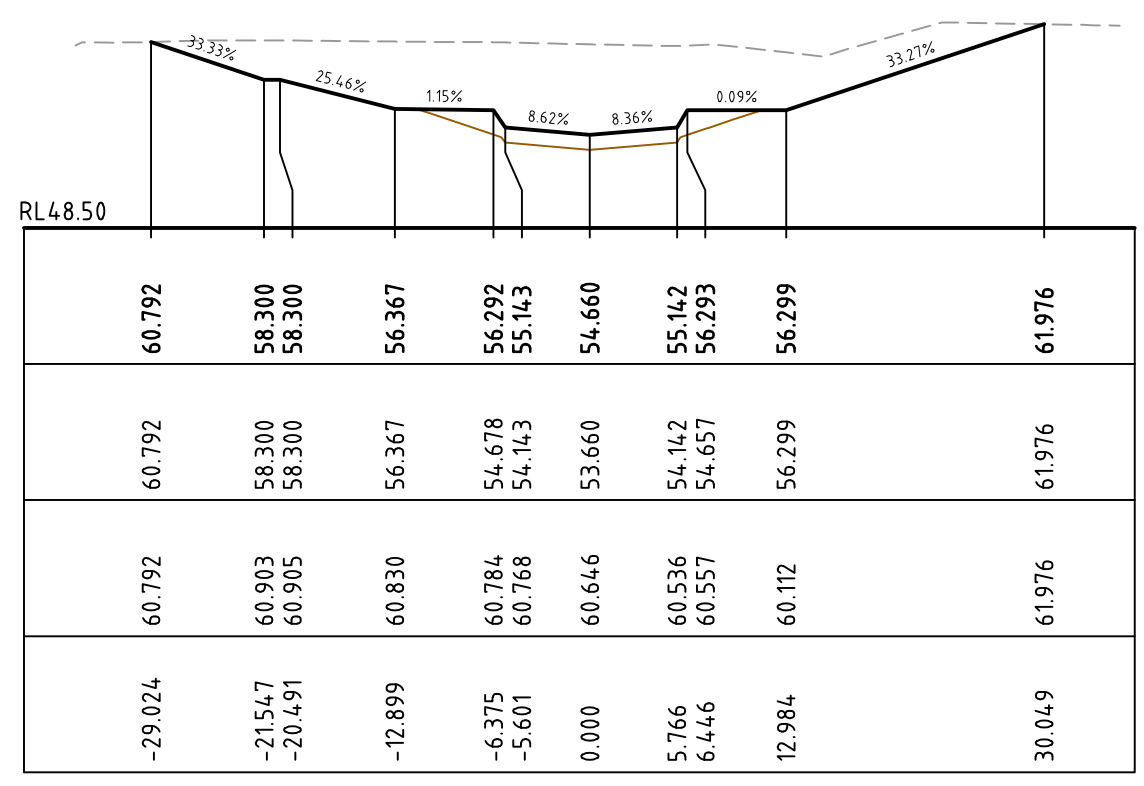
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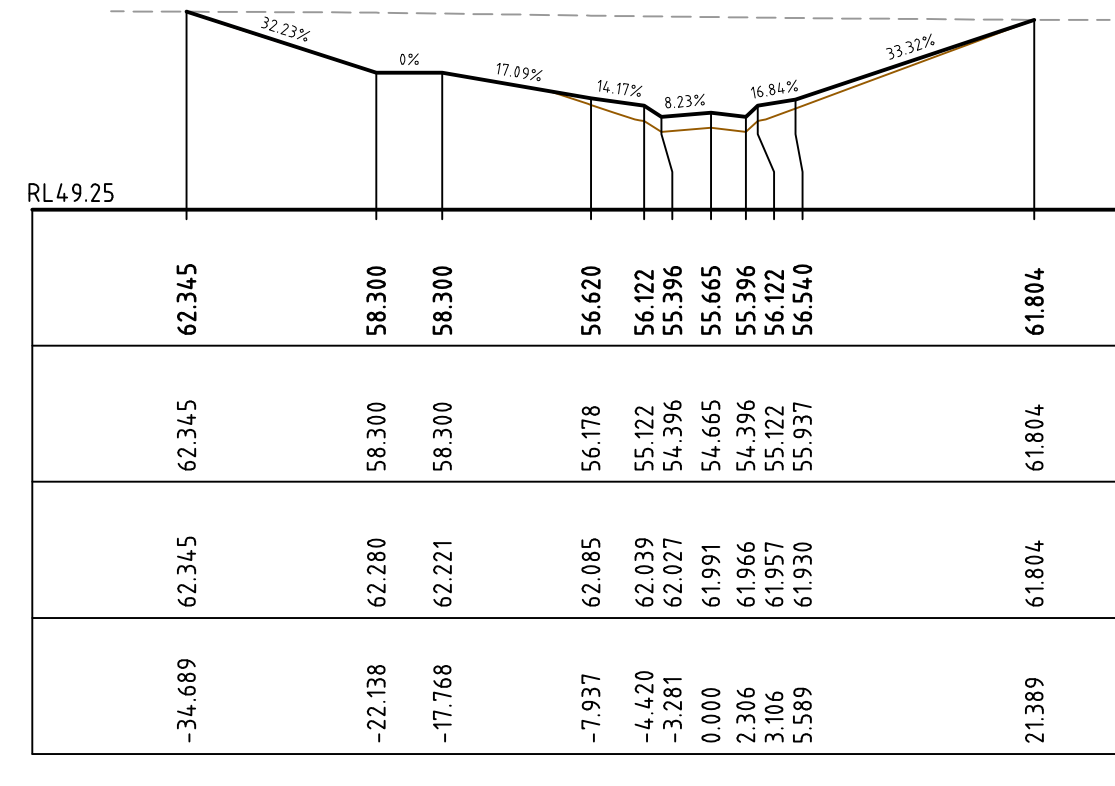
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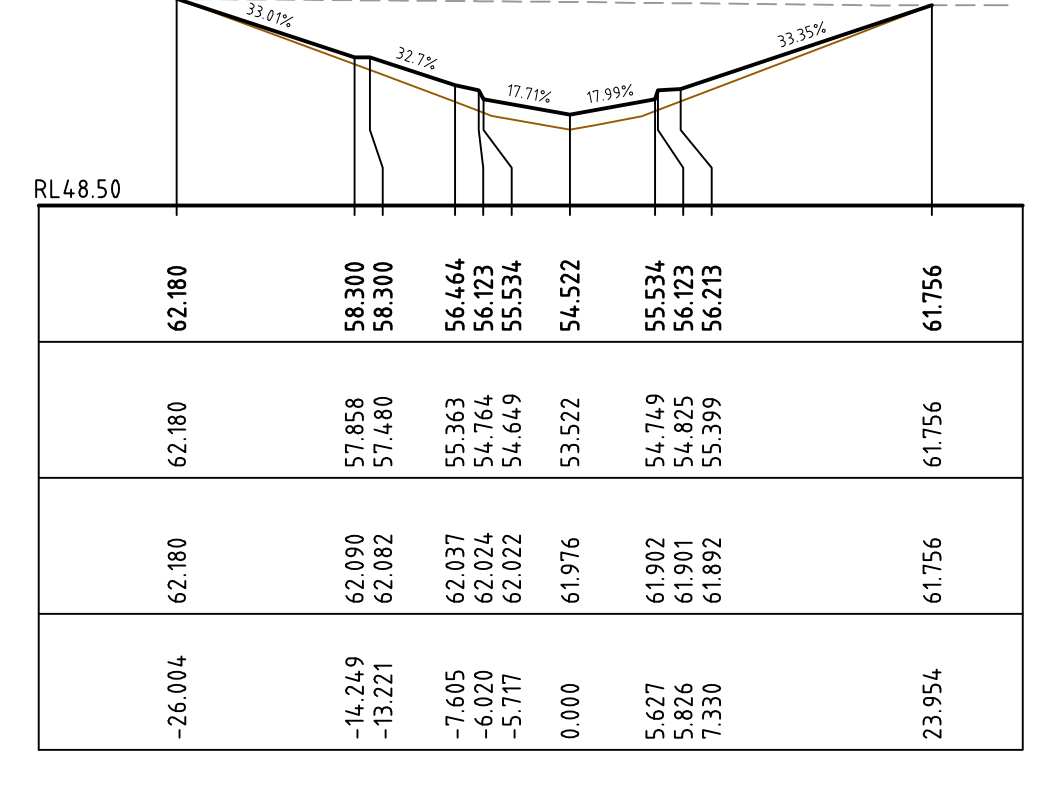
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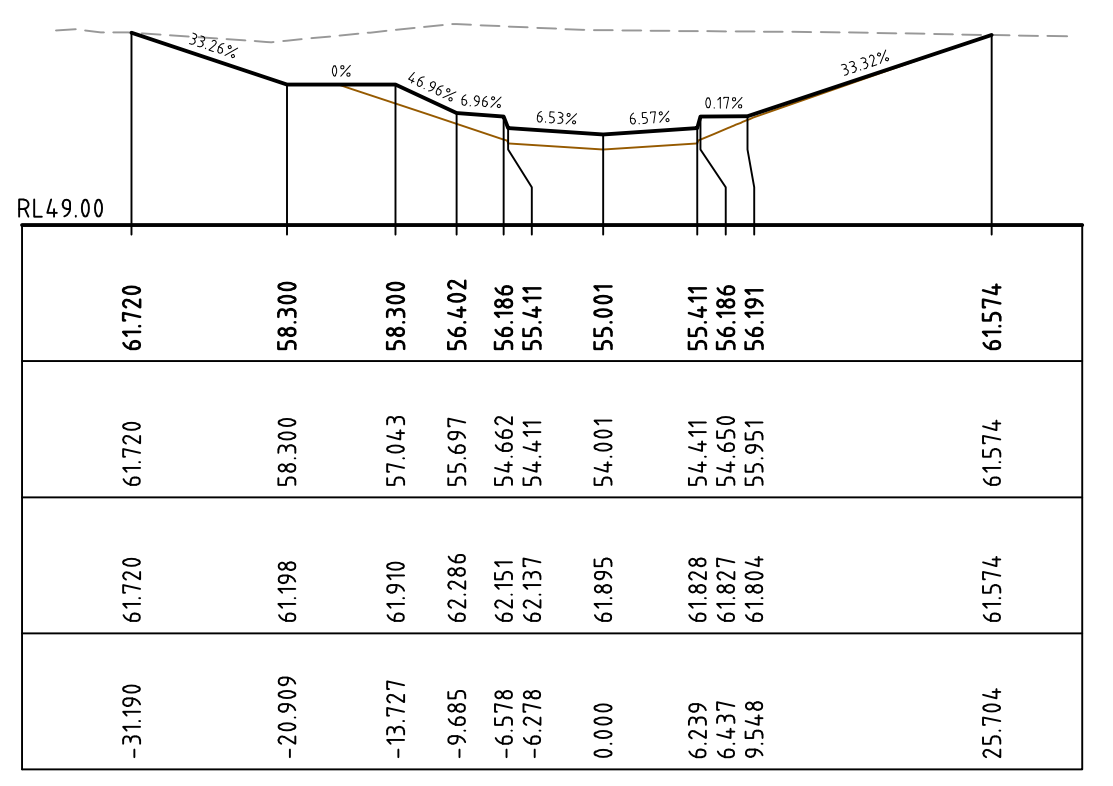
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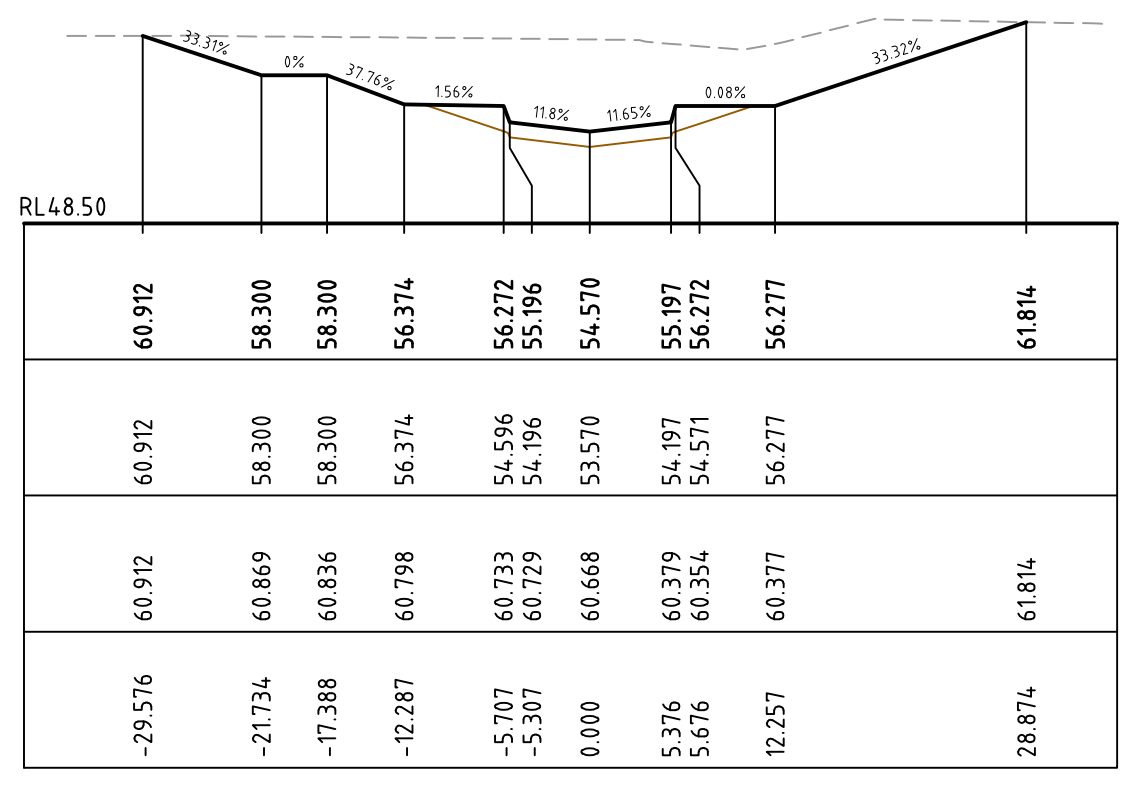
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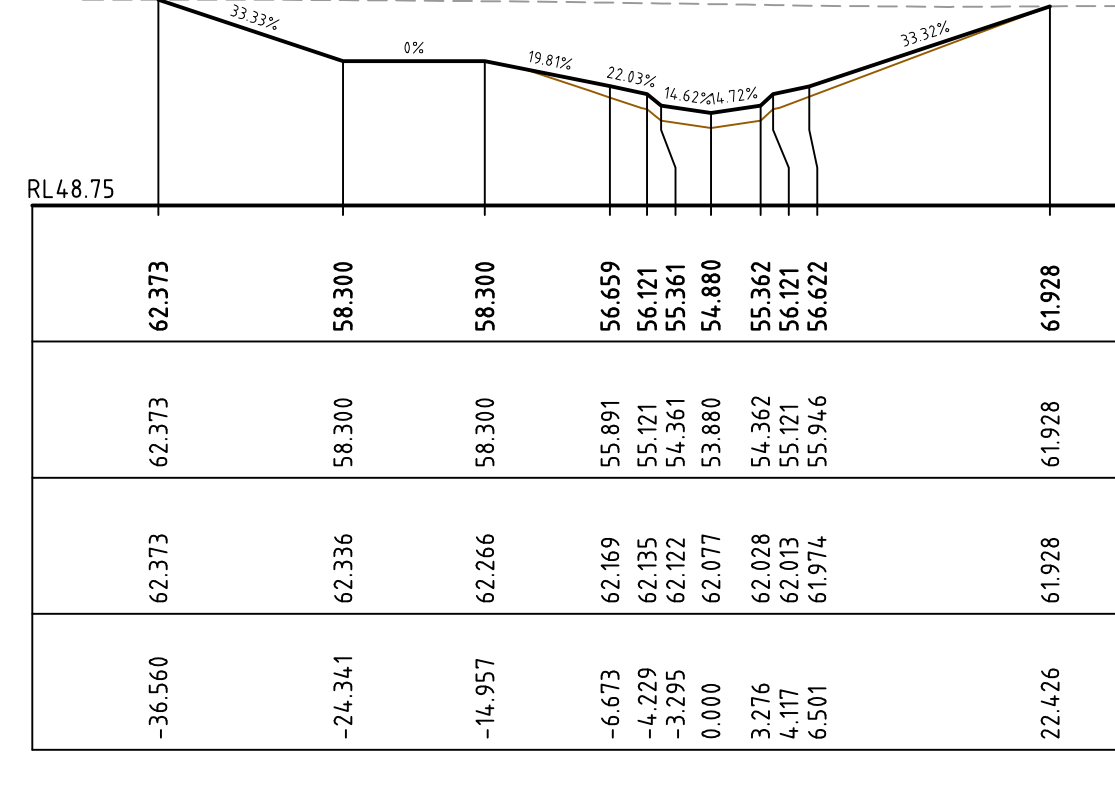
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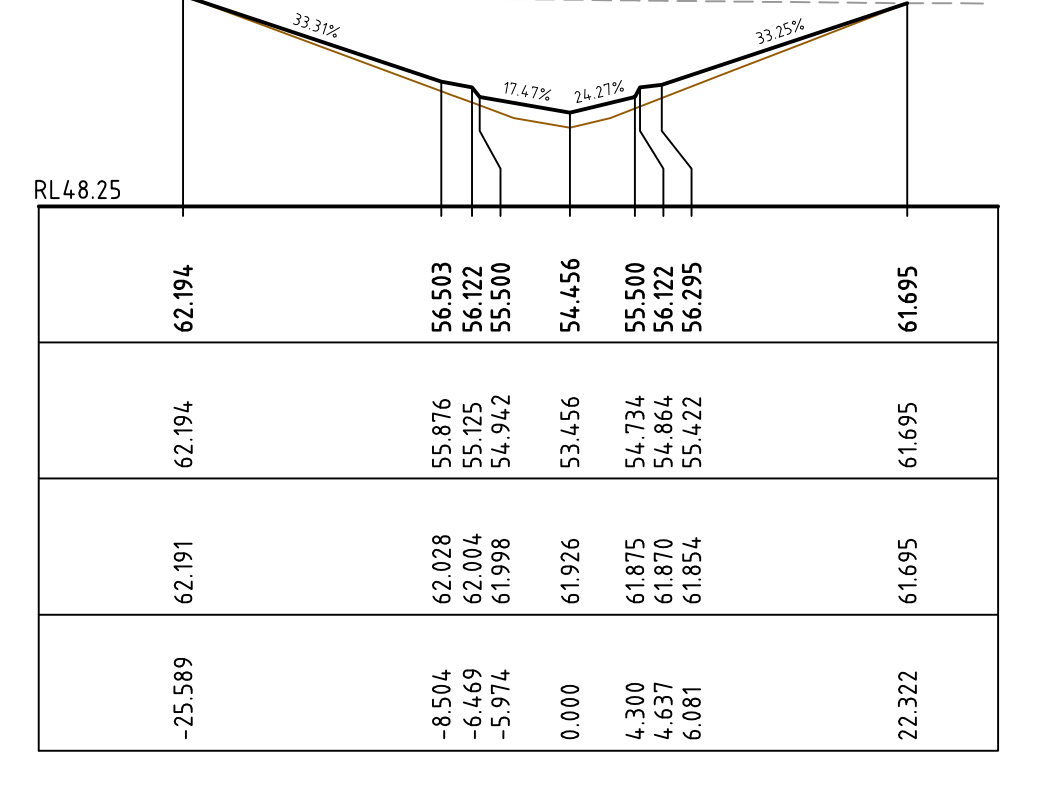
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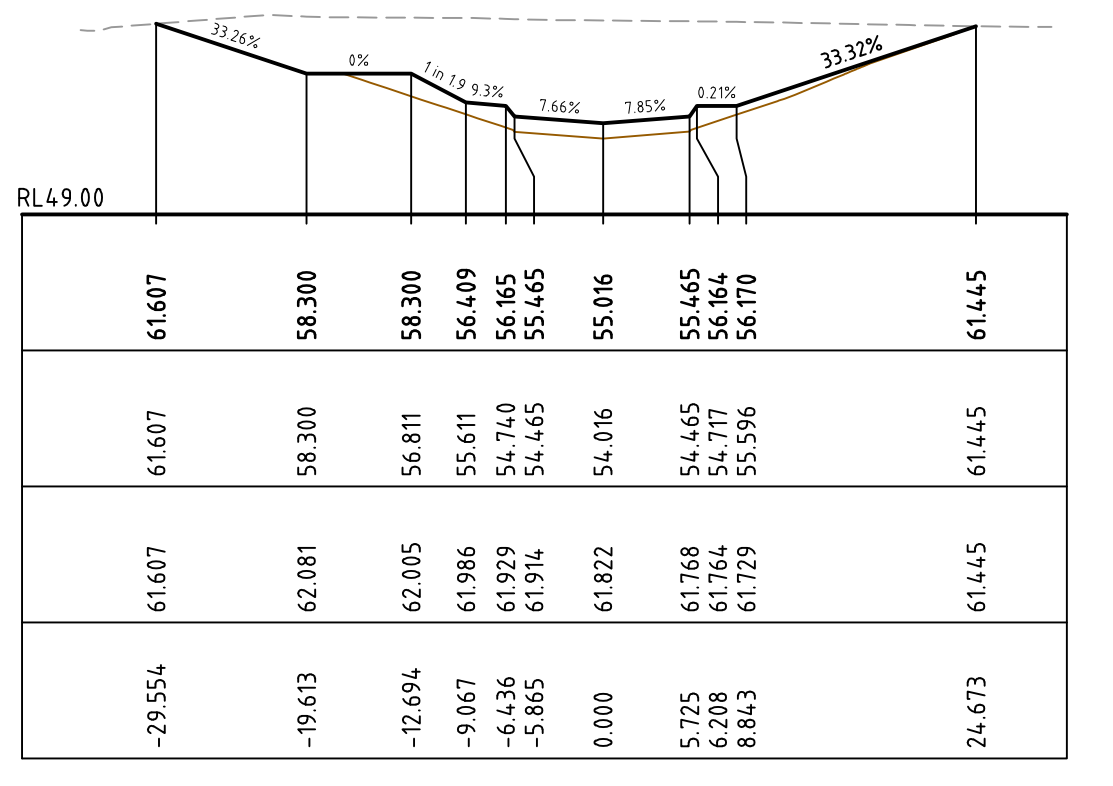
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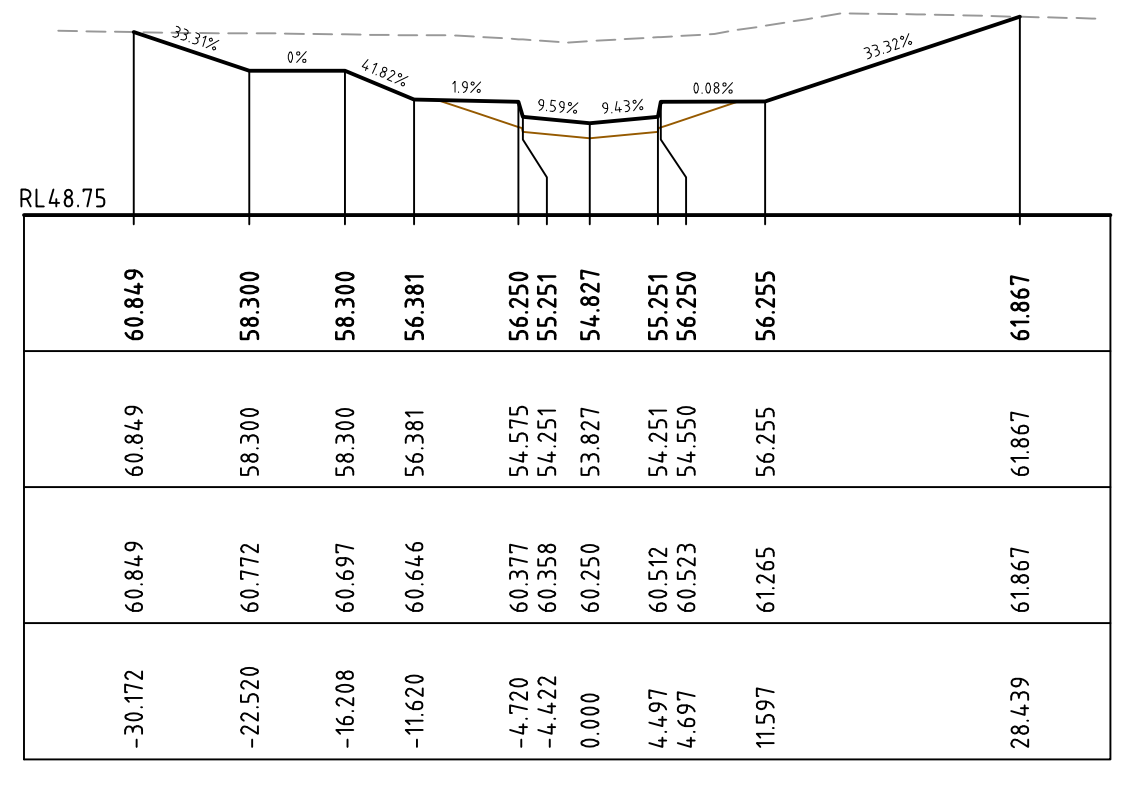
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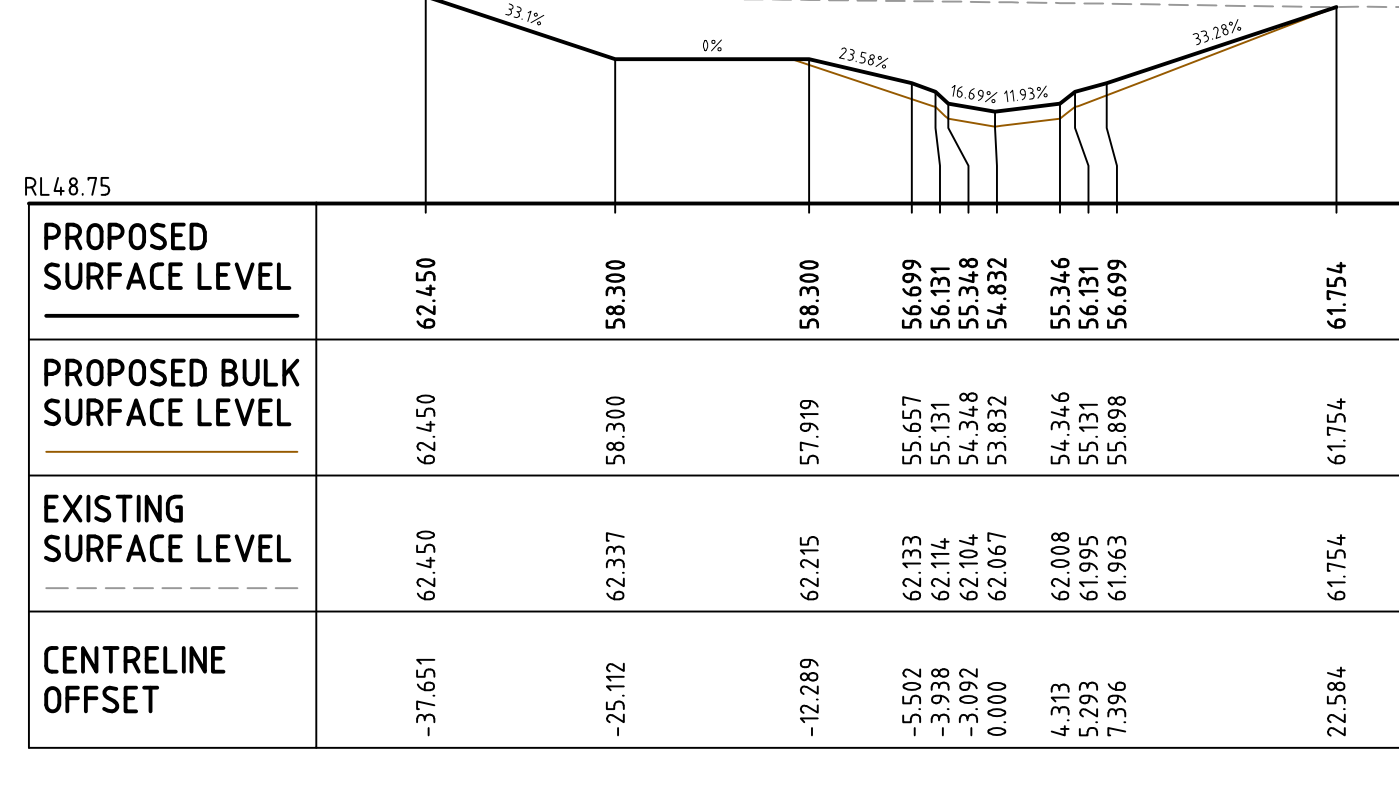
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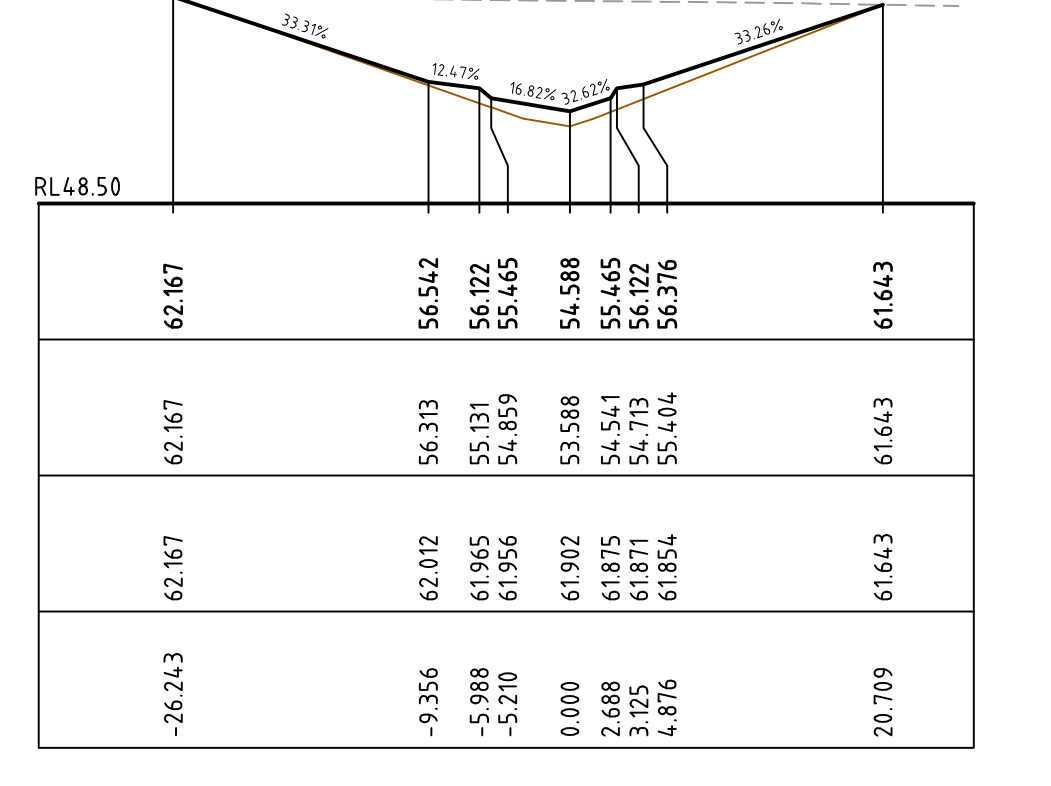
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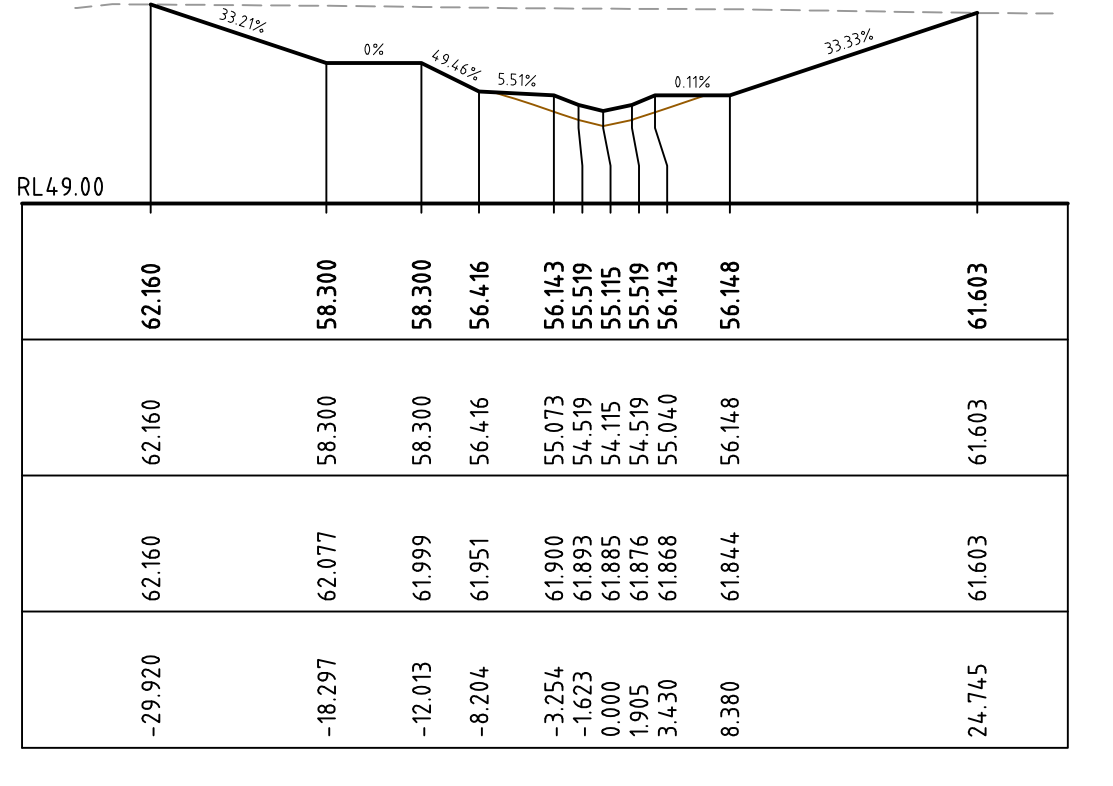
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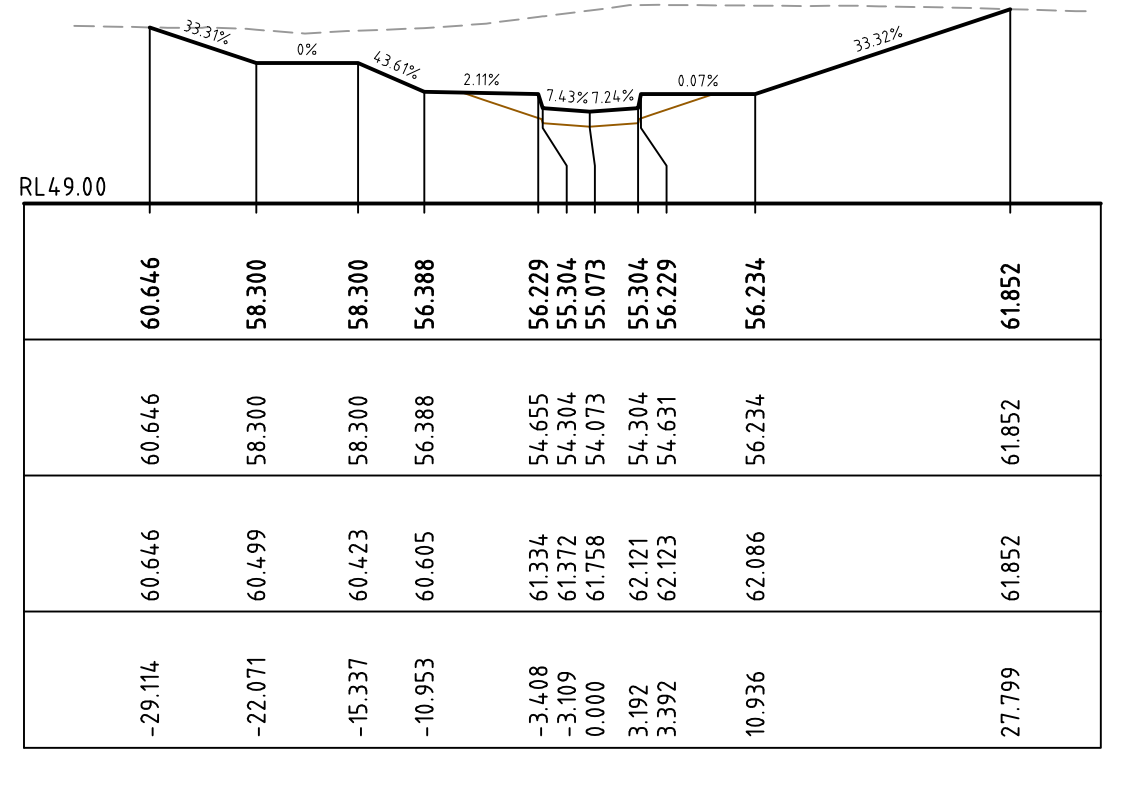
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CH 420

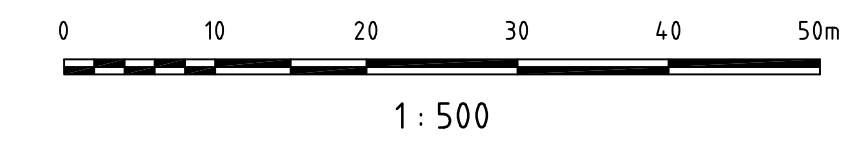


CH 500



CH 580

P1	ISSUE FOR REVIEW	06-10-09
Issue	Description	Date



Client	ASHTON COAL
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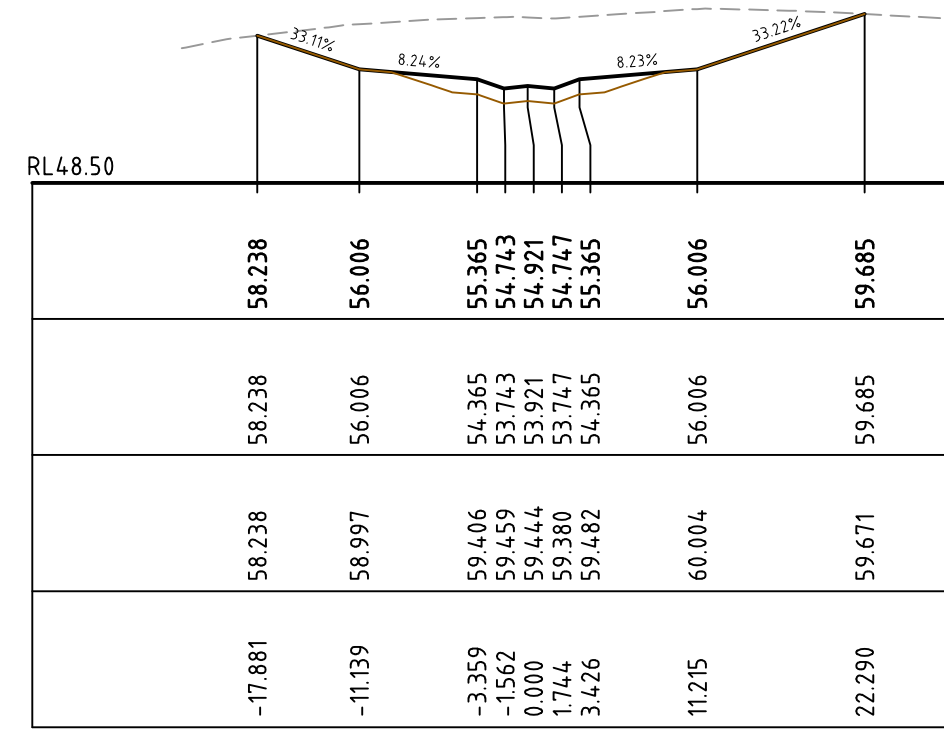
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Height Datum	AHD
Grid	

Project	BOWMANS CREEK CAMBERWELL
Title	WESTERN DIVERSION CROSS SECTION - SHEET 2

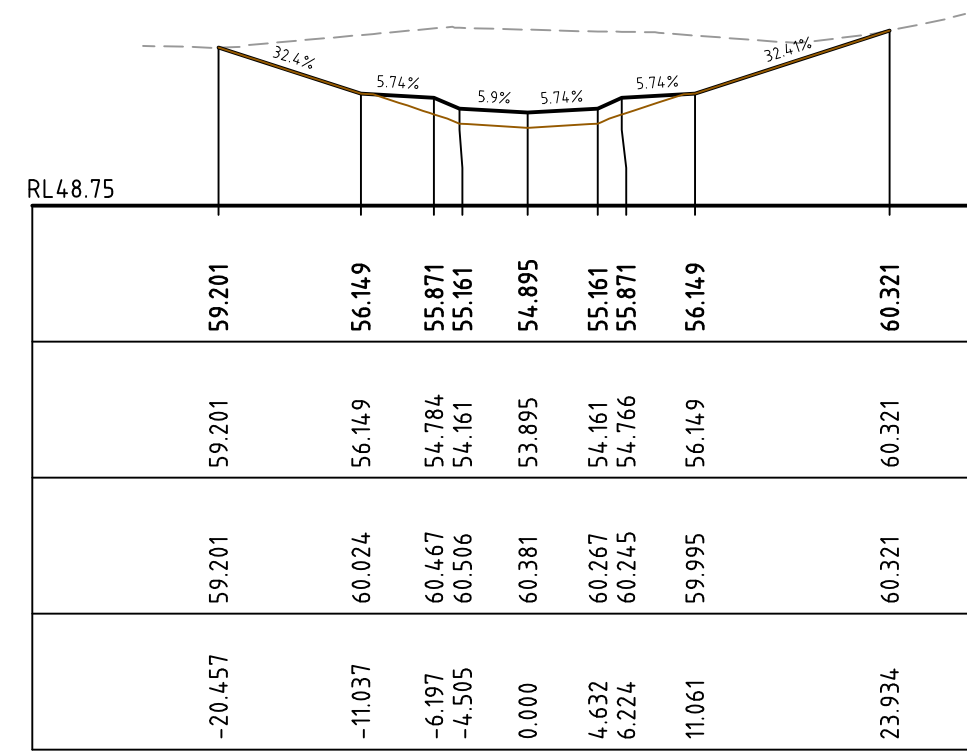
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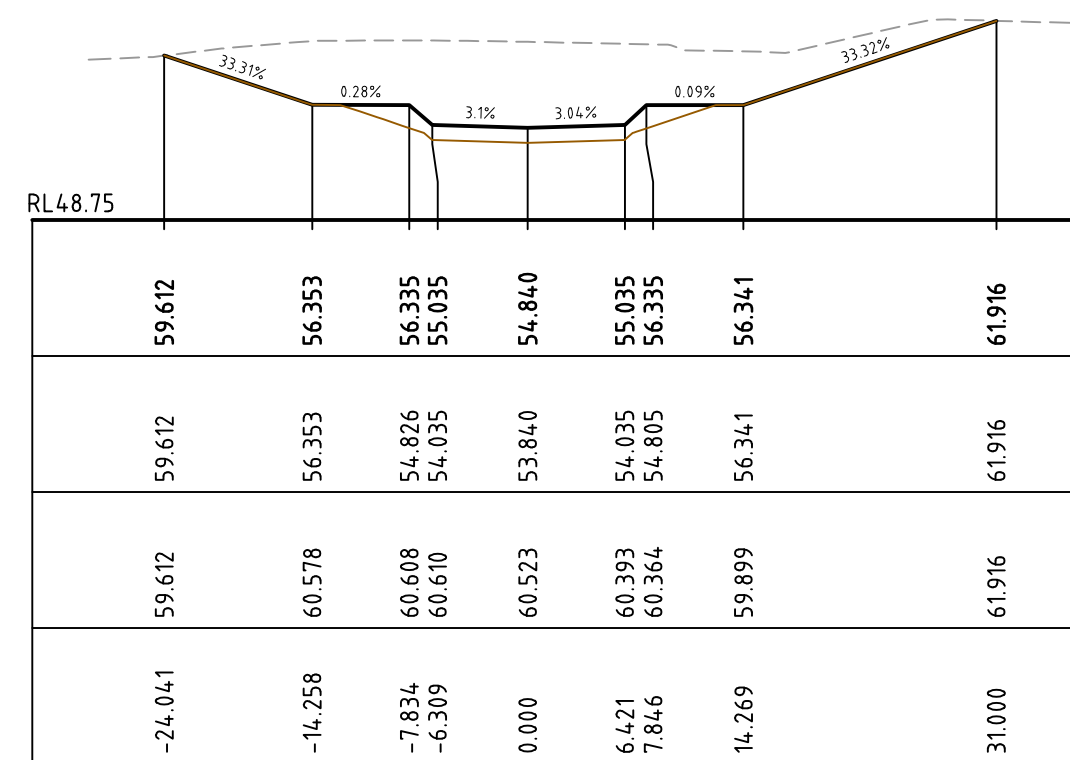
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 Project No. AA002659
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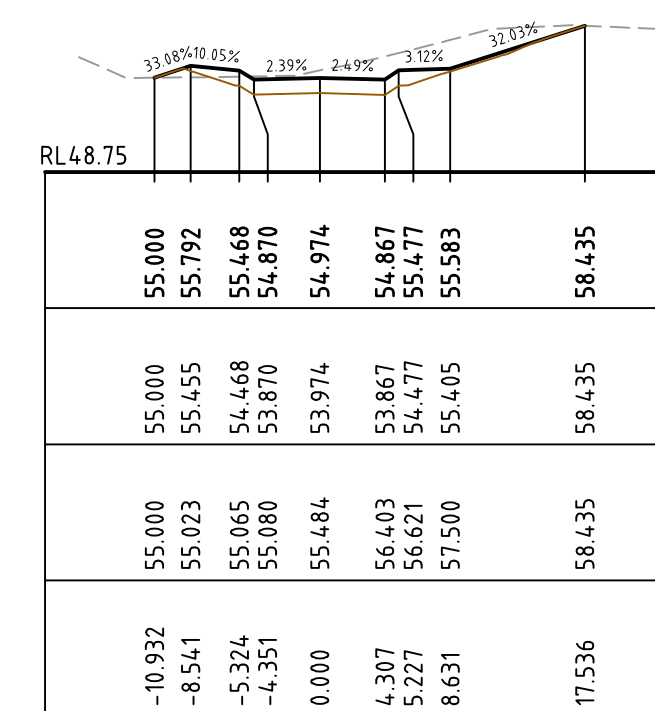
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CH 700



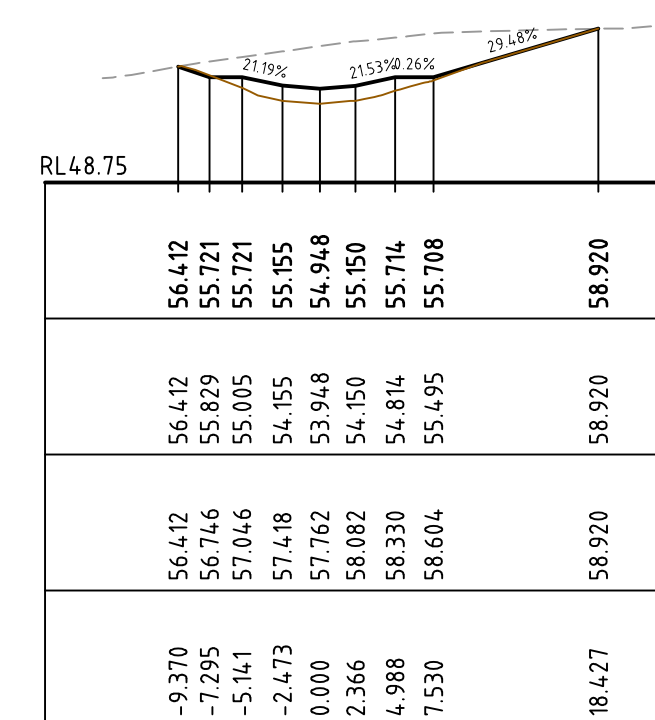
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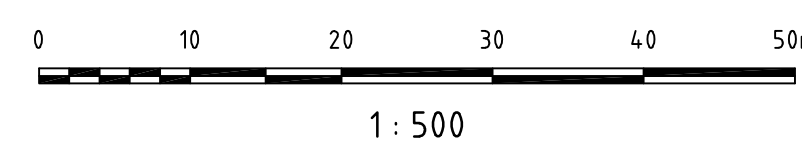
CH 760

PROPOSED SURFACE LEVEL	60.322	56.360	56.313	55.090	54.750	55.088	56.314	61.883
PROPOSED BULK SURFACE LEVEL	60.322	56.360	54.753	54.090	53.750	54.733	56.314	61.883
EXISTING SURFACE LEVEL	60.322	60.761	60.669	60.653	60.631	60.604	60.705	61.883
CENTRELINE OFFSET	-25.532	-13.647	-7.174	-6.031	0.000	6.028	13.567	30.284

CH 660



CH 740



P1	ISSUE FOR REVIEW	06-10-09
Issue	Description	Date

Client
ASHTON COAL

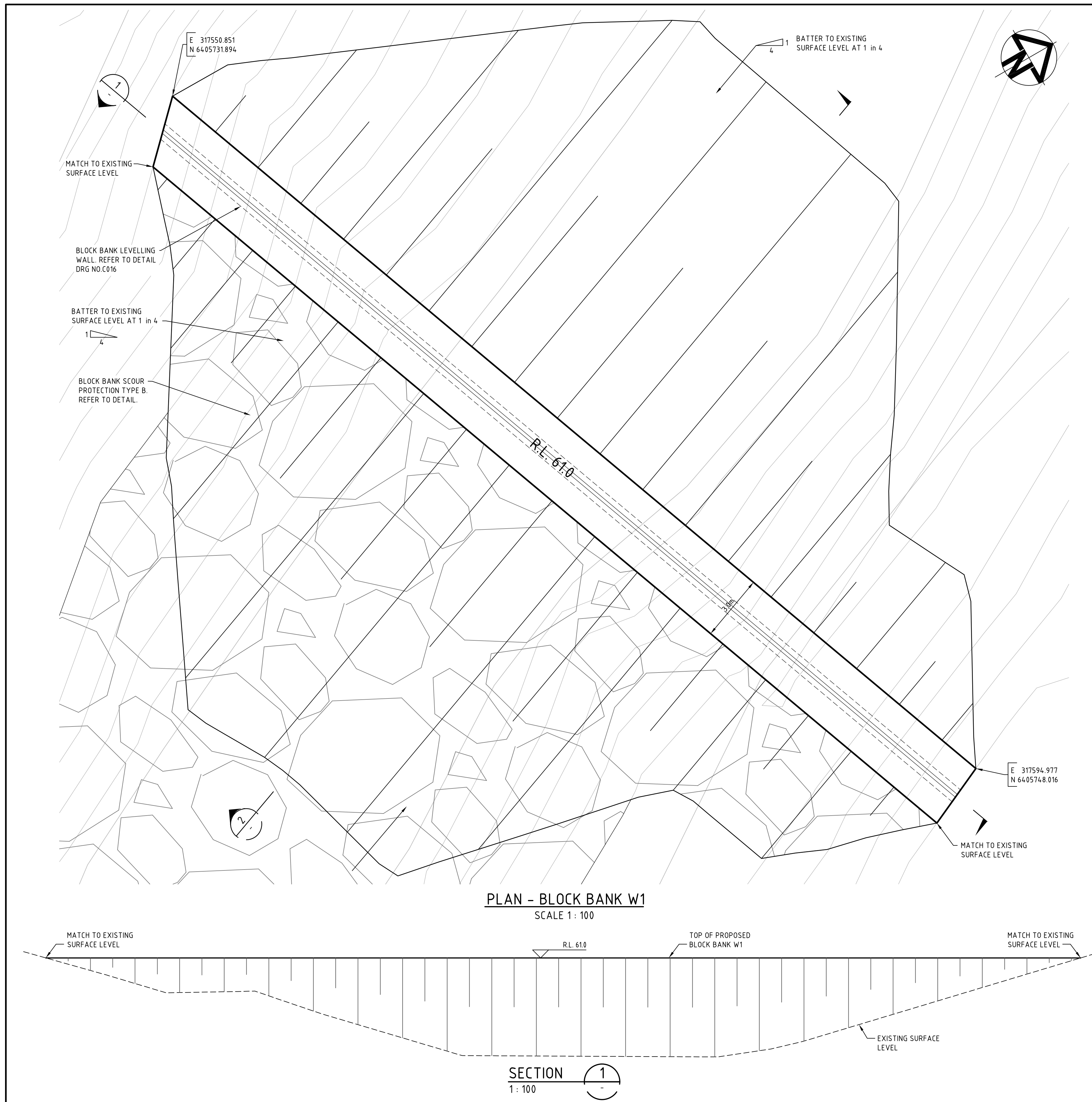
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Height Datum	AHD	Checked
Grid		Approved

Project
BOWMANS CREEK CAMBERWELL

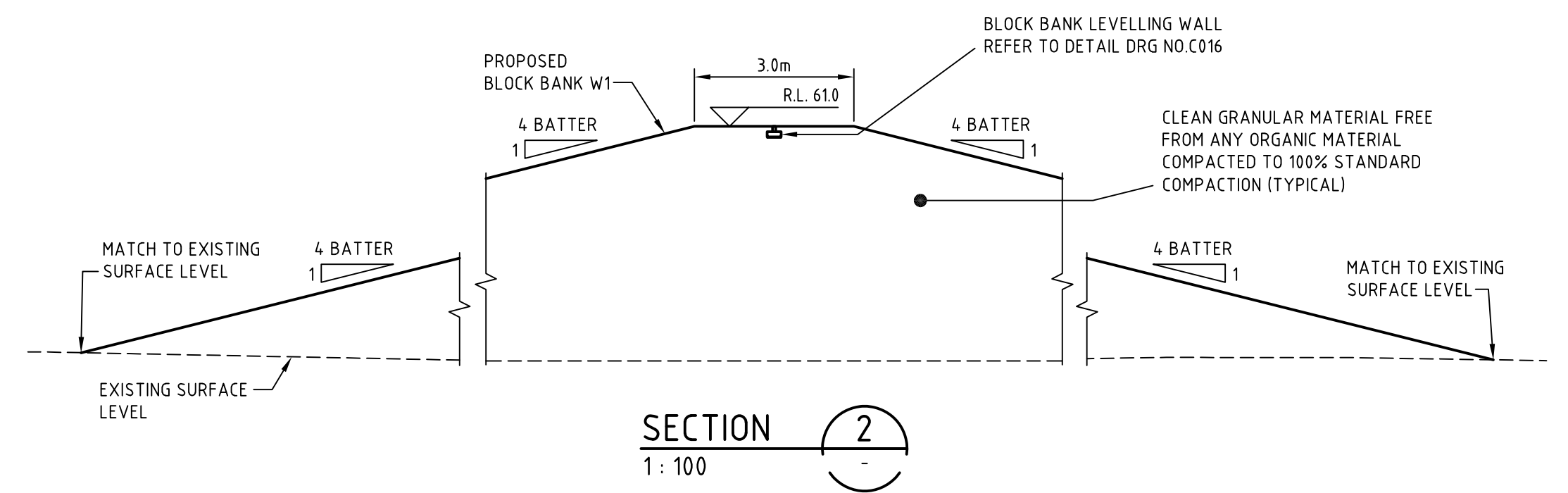
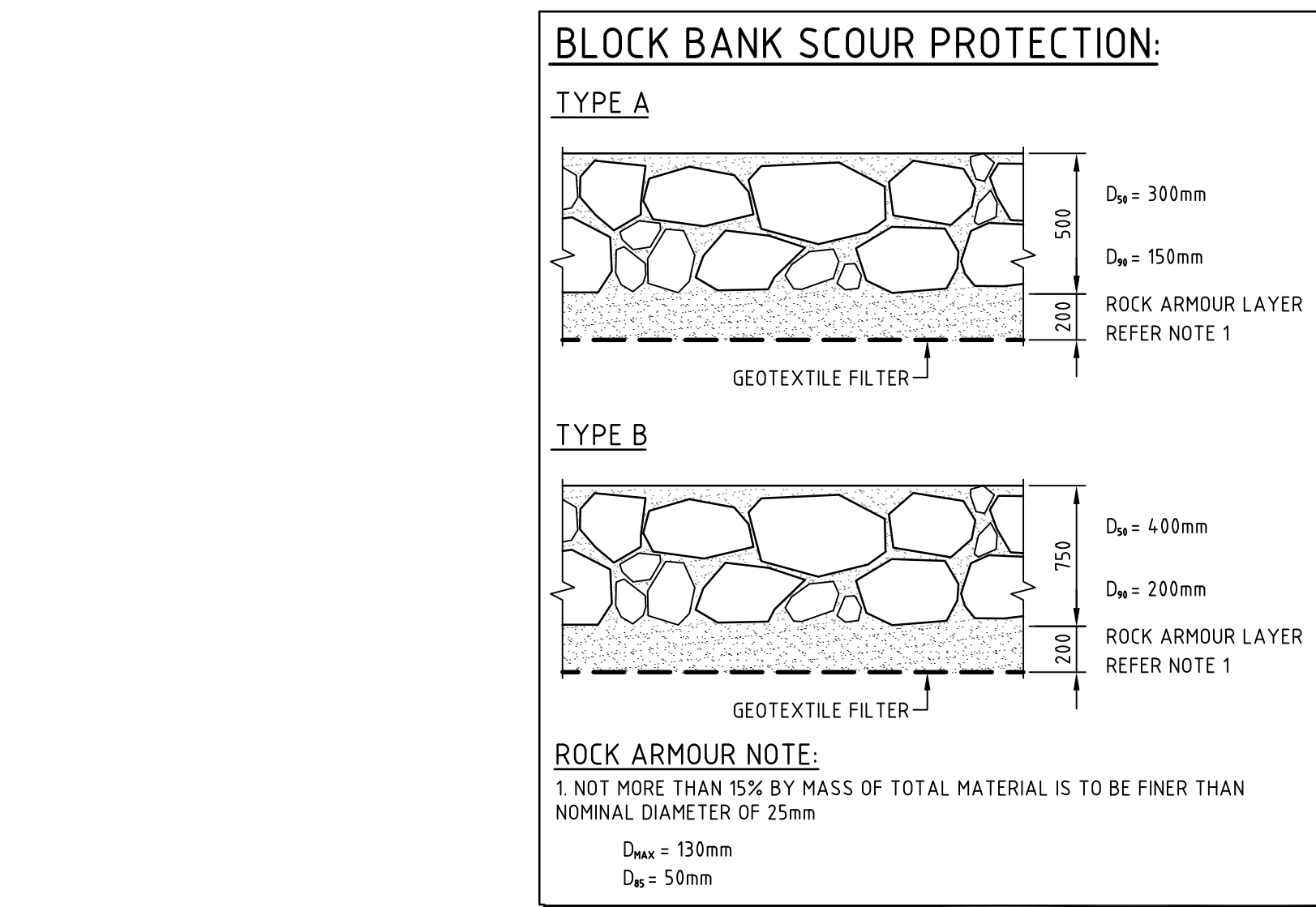
Title
WESTERN DIVERSION CROSS SECTION - SHEET 3

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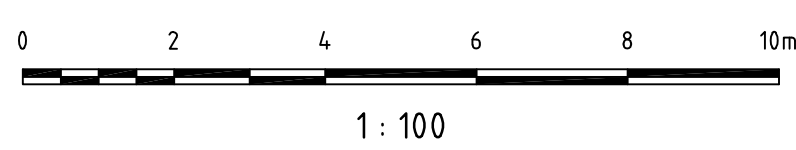
Drawing No. **C030** | Project No. **AA002659** | Issue **P1**



PLAN - BLOCK BANK W1
SCALE 1 : 100



SECTION 1
1 : 100



P1	ISSUE FOR REVIEW	06-10-09
Issue	Description	Date

Client	ASHTON COAL
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Status	FOR APPROVAL
Scales	AS SHOWN
Original Size	A1
Height Datum	AHD
Grid	

Project	BOWMANS CREEK CAMBERWELL
Title	WESTERN DIVERSION BLOCK BANK W1 PLAN AND DETAILS

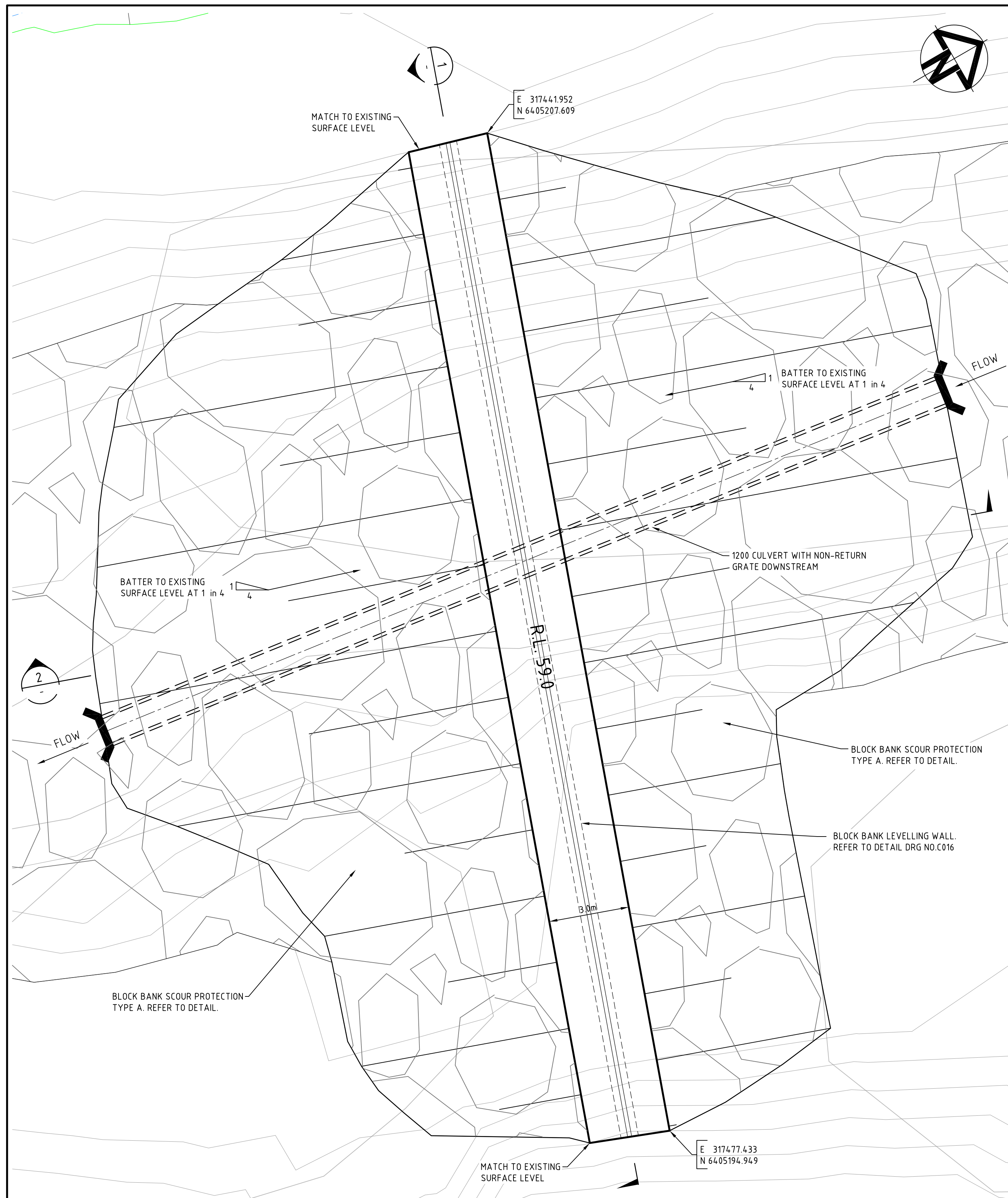
Project No.	AA002659
Issue	P1

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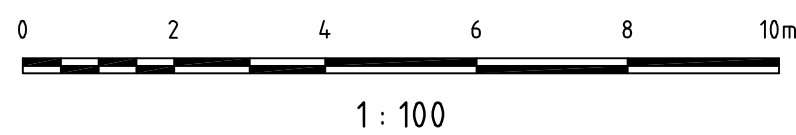
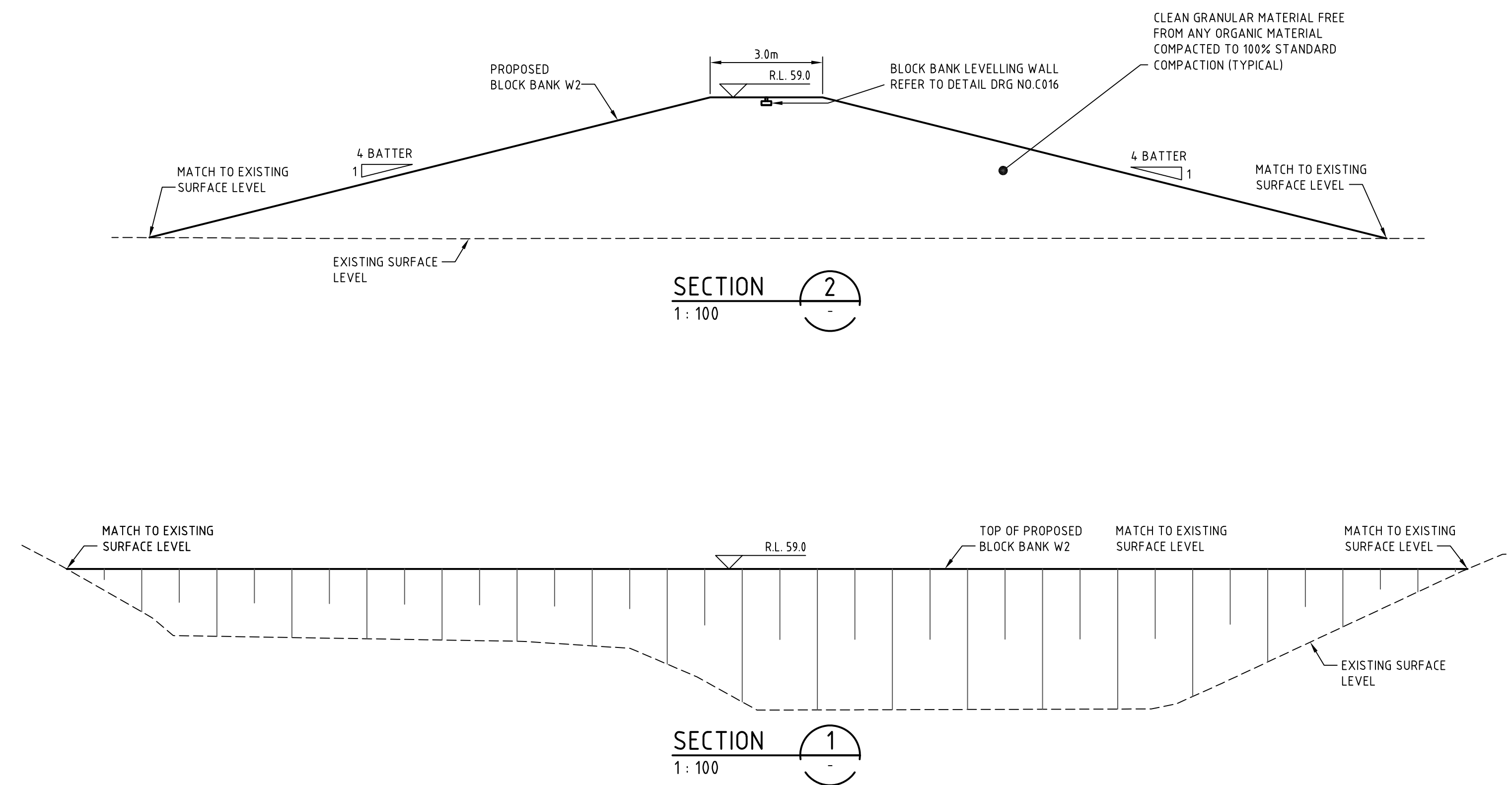
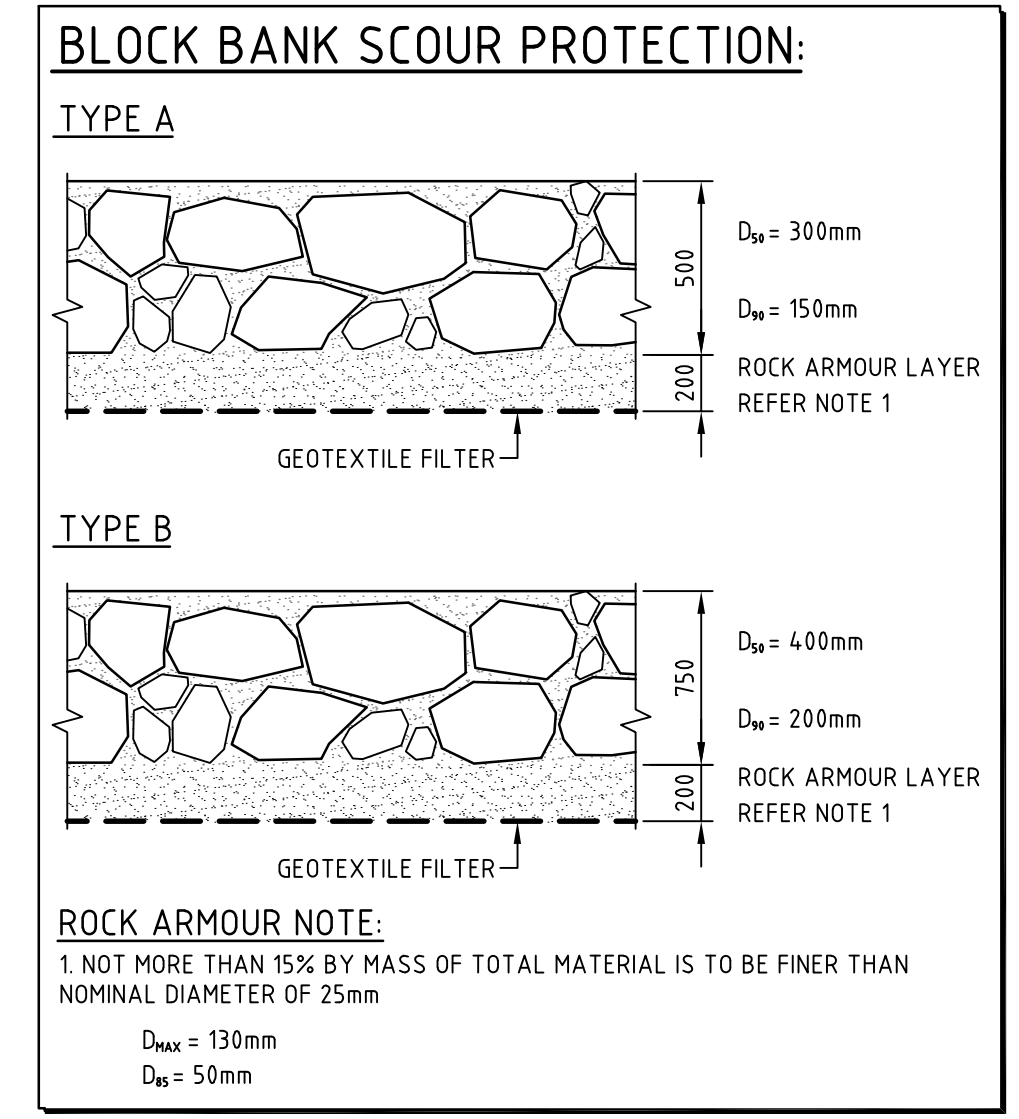
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PLAN - BLOCK BANK W2
SCALE 1 : 100



P1	ISSUE FOR REVIEW	06-10-09
Issue	Description	Date

Client
ASHTON COAL

Status FOR APPROVAL	
Scales AS SHOWN	Current Issue Signatures
Original Size A1	Drawn
Height Datum AHD	Designed
Grid	Checked
	Approved

Project
**BOWMANS CREEK
CAMBERWELL**

Title
**WESTERN DIVERSION
BLOCK BANK W2 PLAN
AND DETAILS**

Hyder

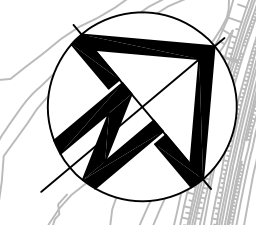
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Drawing No. | Project No. | Issue
C034 - AA002659 - P1

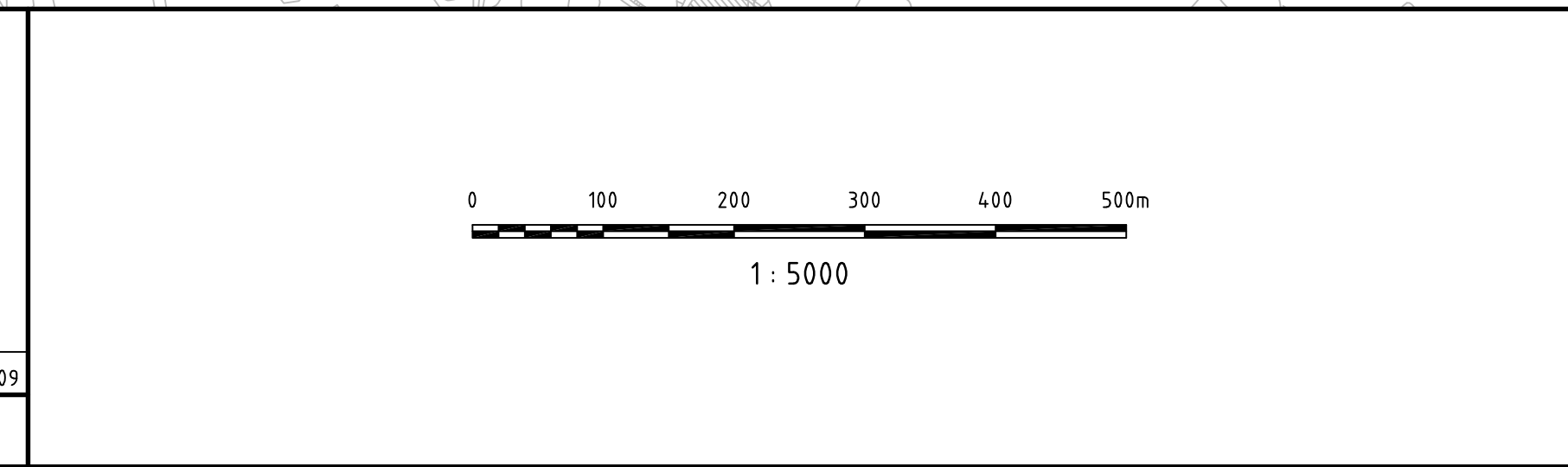
LEGEND:

➔ INDICATIVE HAULAGE ROUTE

▨ EARTHWORKS DISPOSAL STOCKPILE AREA



P1	ISSUE FOR REVIEW	06-10-09
Issue	Description	Date



Client
ASHTON COAL

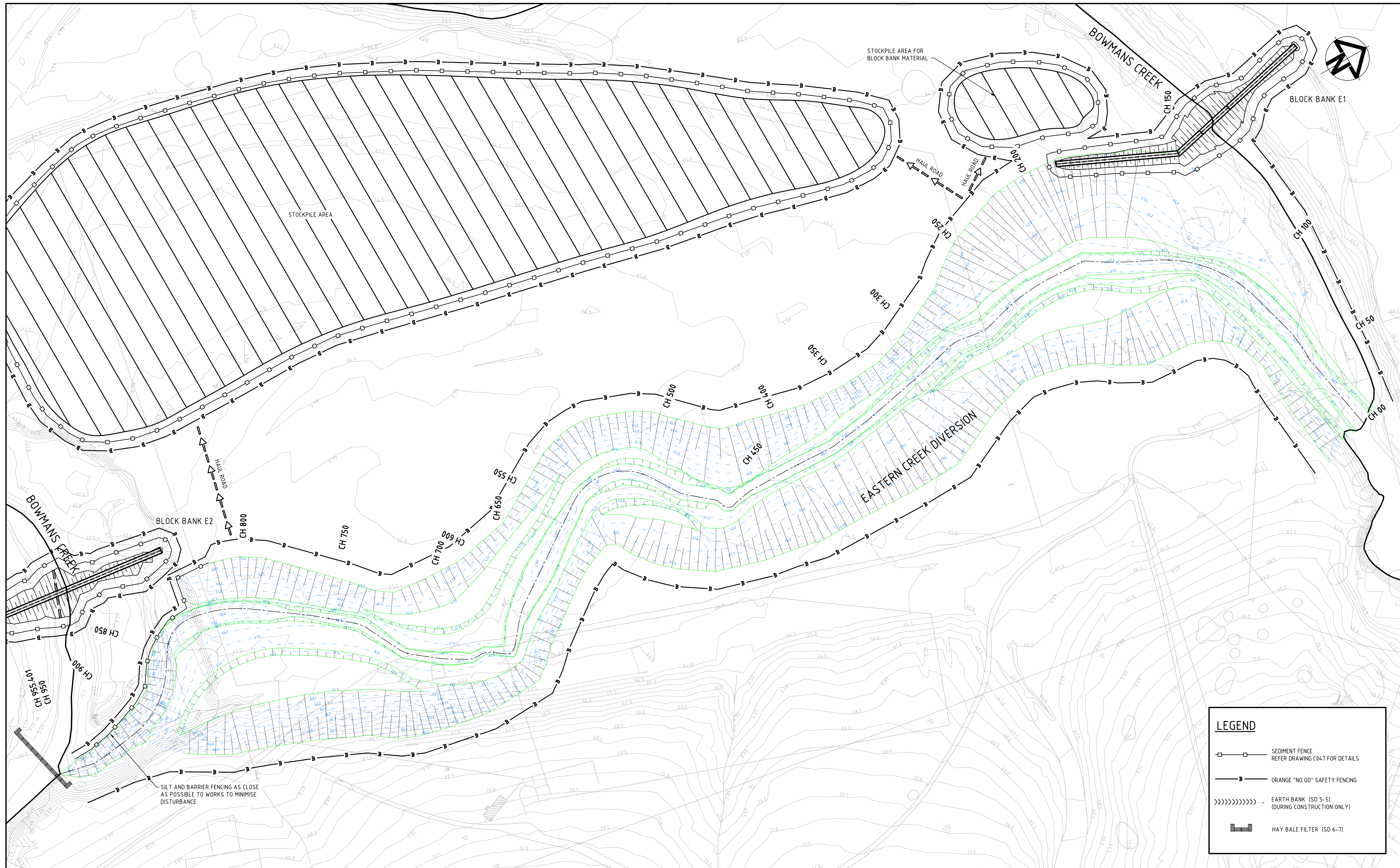
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Project
**BOWMANS CREEK
CAMBERWELL**

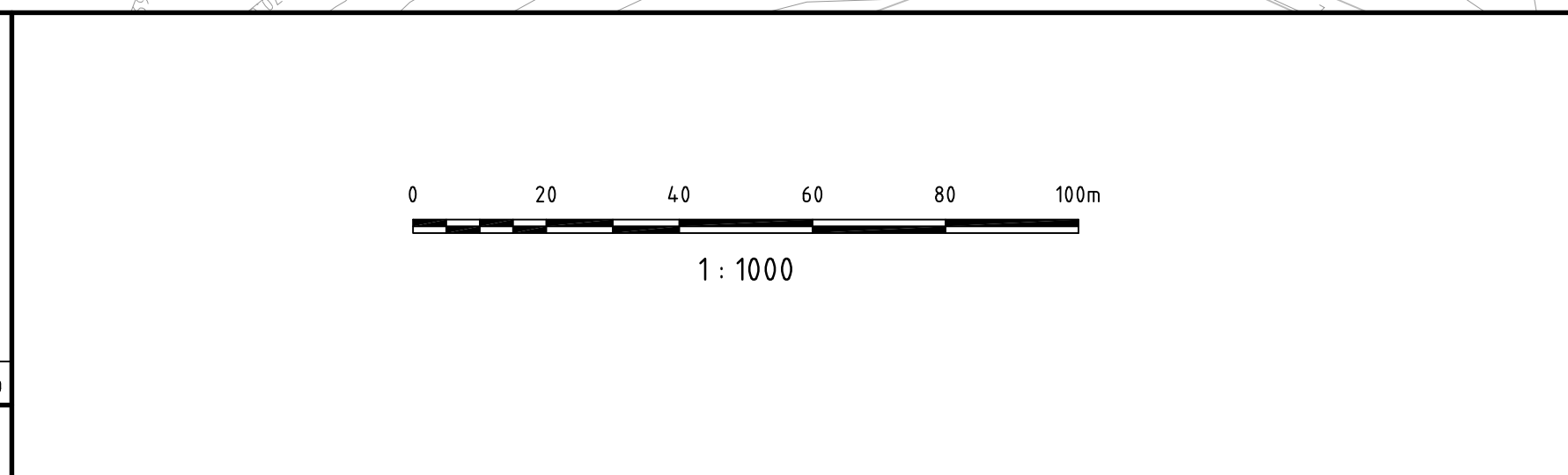
Title
**BULK EARTHWORKS
TYPICAL HAULAGE PLAN**

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Issue	Description	Date



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Original Size	A1	Drawn
Height Datum	AHD	Checked
Grid		Approved

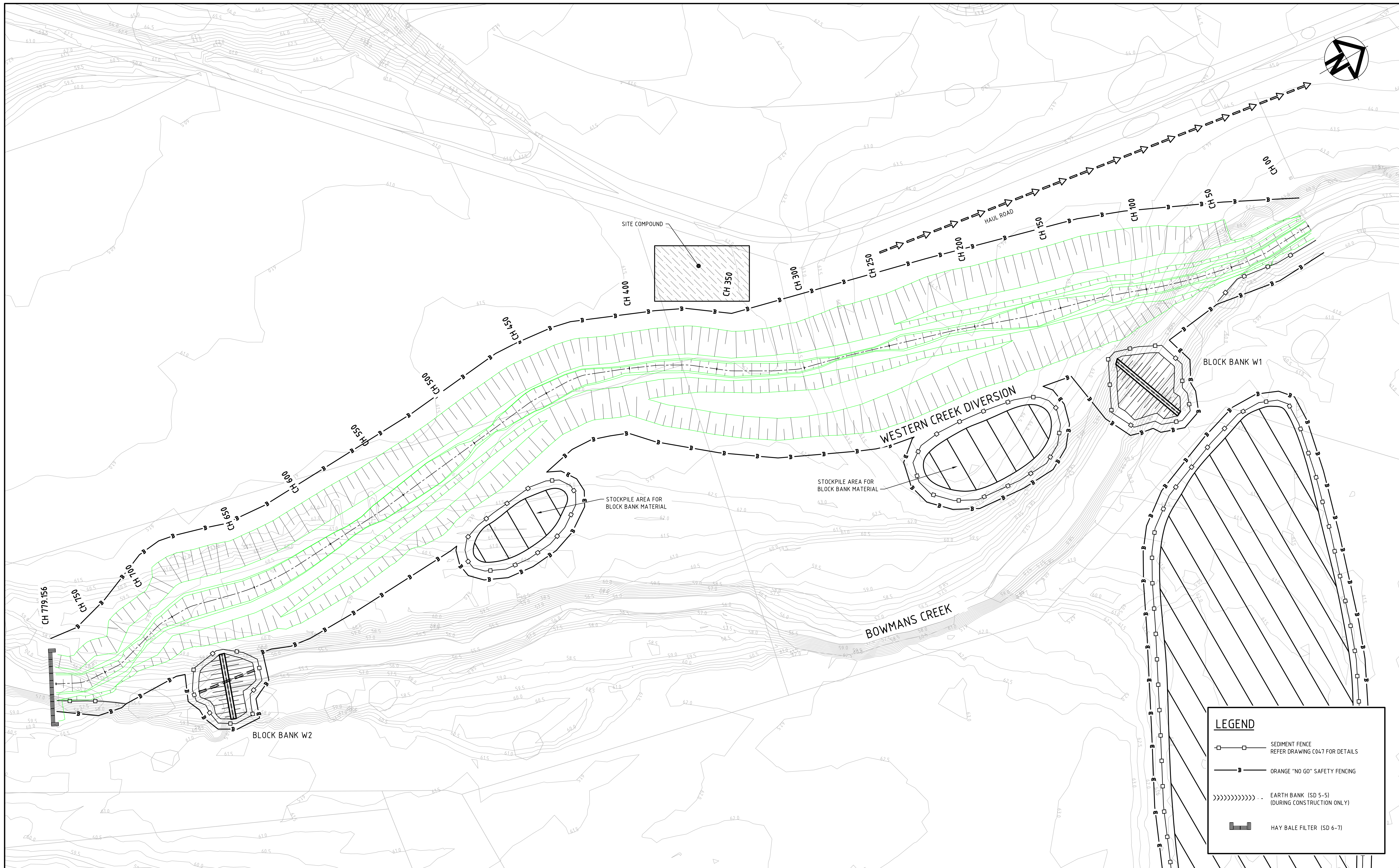
Project
**BOWMANS CREEK
CAMBERWELL**

Title
**EASTERN DIVERSION
SEDIMENTATION AND EROSION
CONTROL PLAN**

Hyder

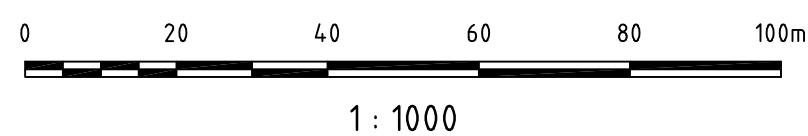
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LEGEND	
	SEDIMENT FENCE REFER DRAWING C047 FOR DETAILS
	ORANGE "NO GO" SAFETY FENCING
	EARTH BANK (SD 5-5) (DURING CONSTRUCTION ONLY)
	HAY BALE FILTER (SD 6-7)

P1	ISSUE FOR REVIEW	06-10-09
Issue	Description	Date



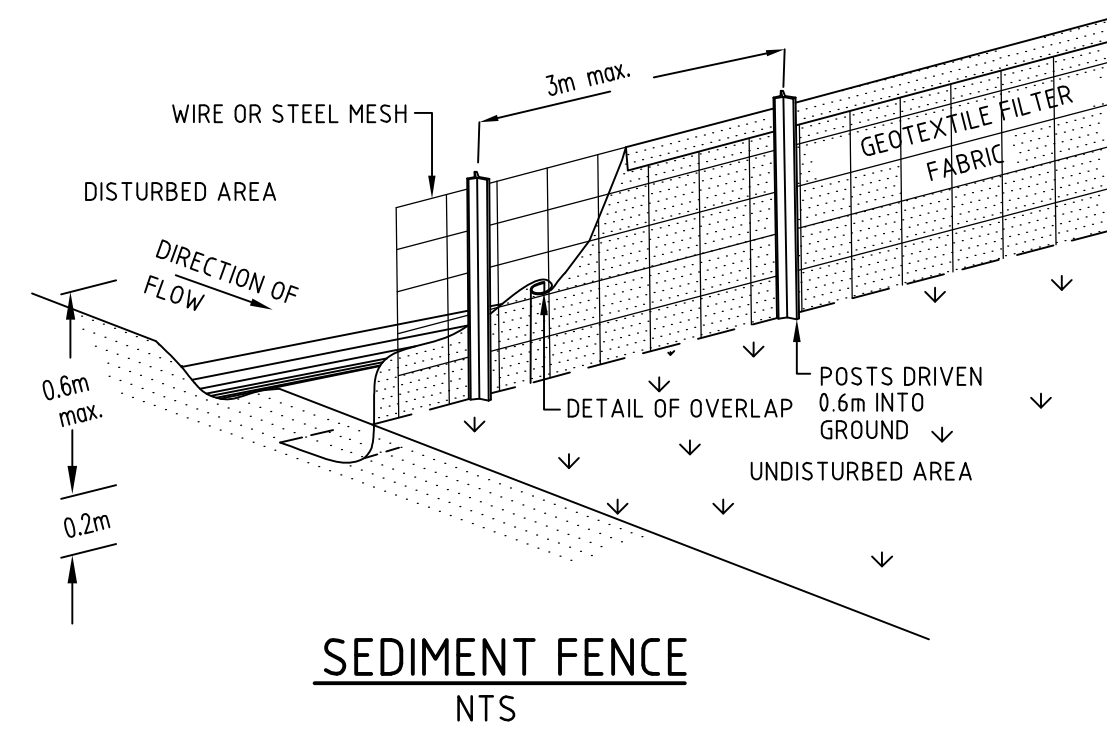
Client	ASHTON COAL
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Grid		Checked
		Approved
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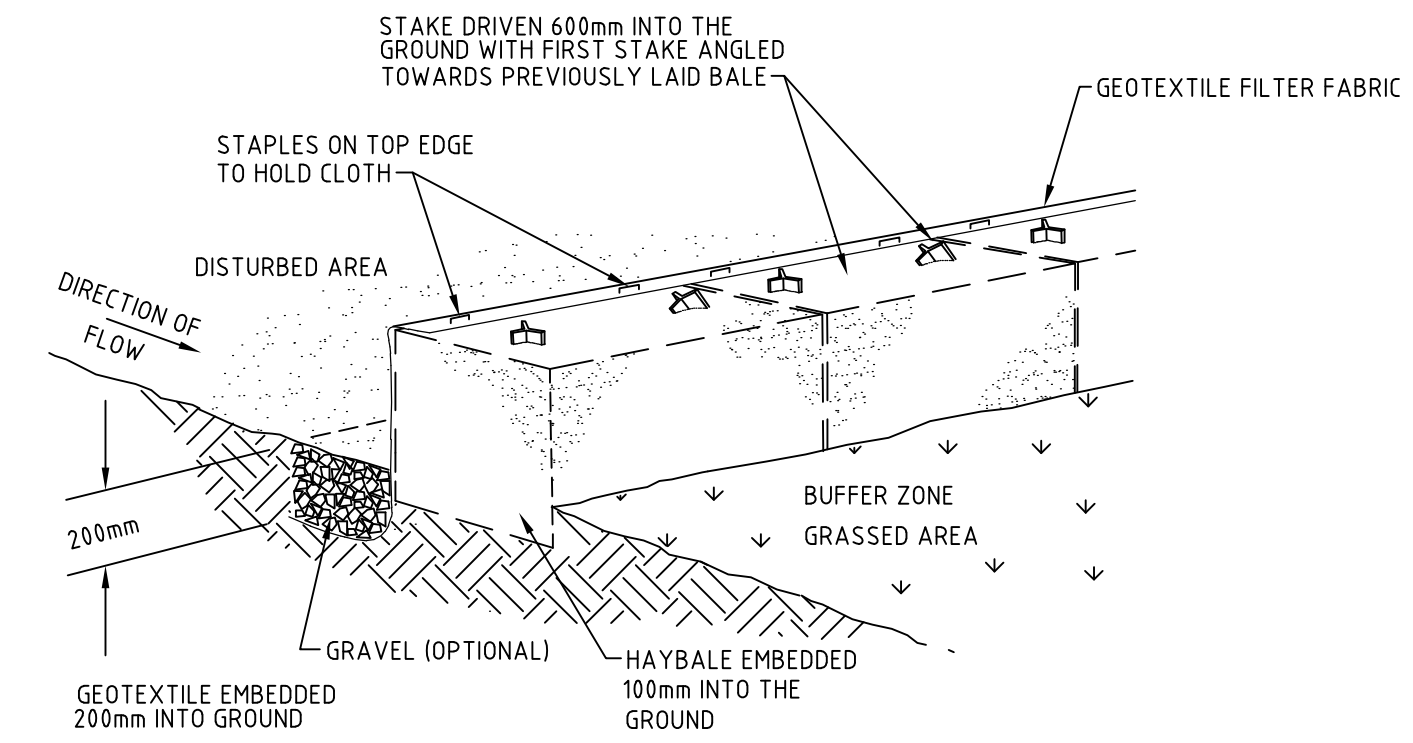
Project	BOWMANS CREEK CAMBERWELL
Title	WESTERN DIVERSION SEDIMENTATION AND EROSION CONTROL PLAN

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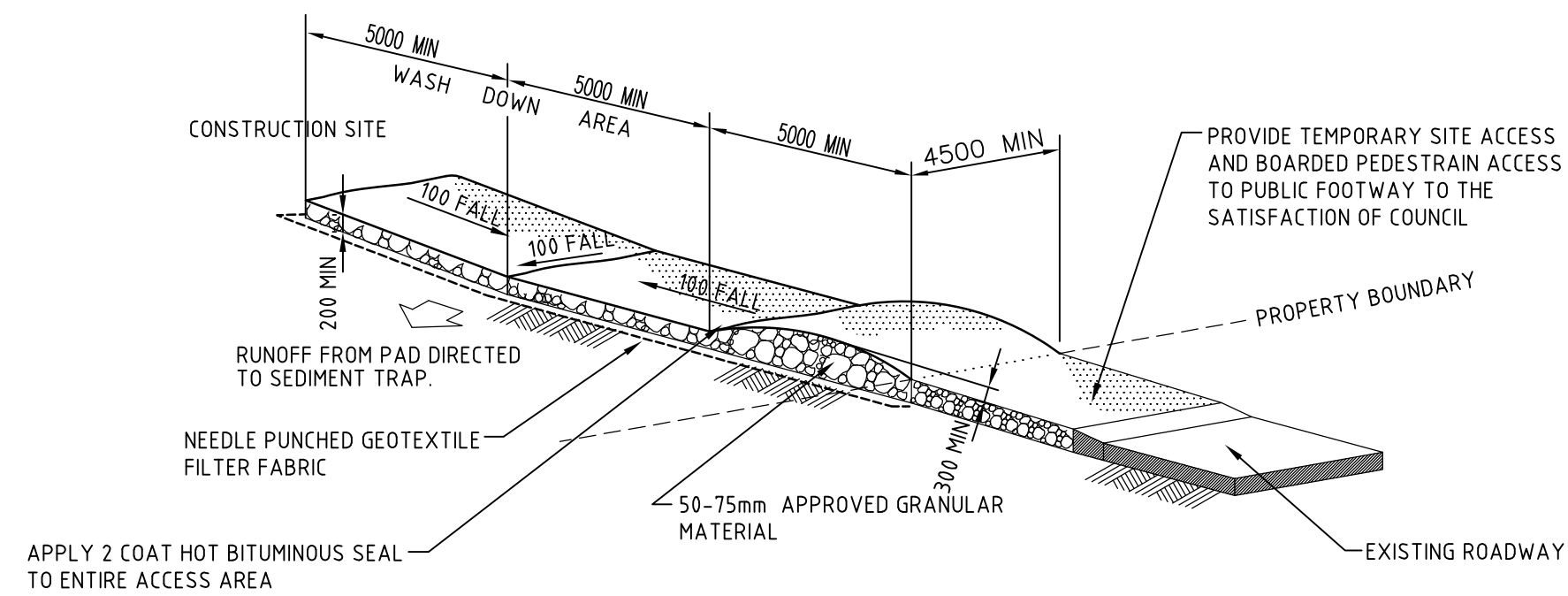
Drawing No.	Project No.	Issue
C046	AA002659	P1



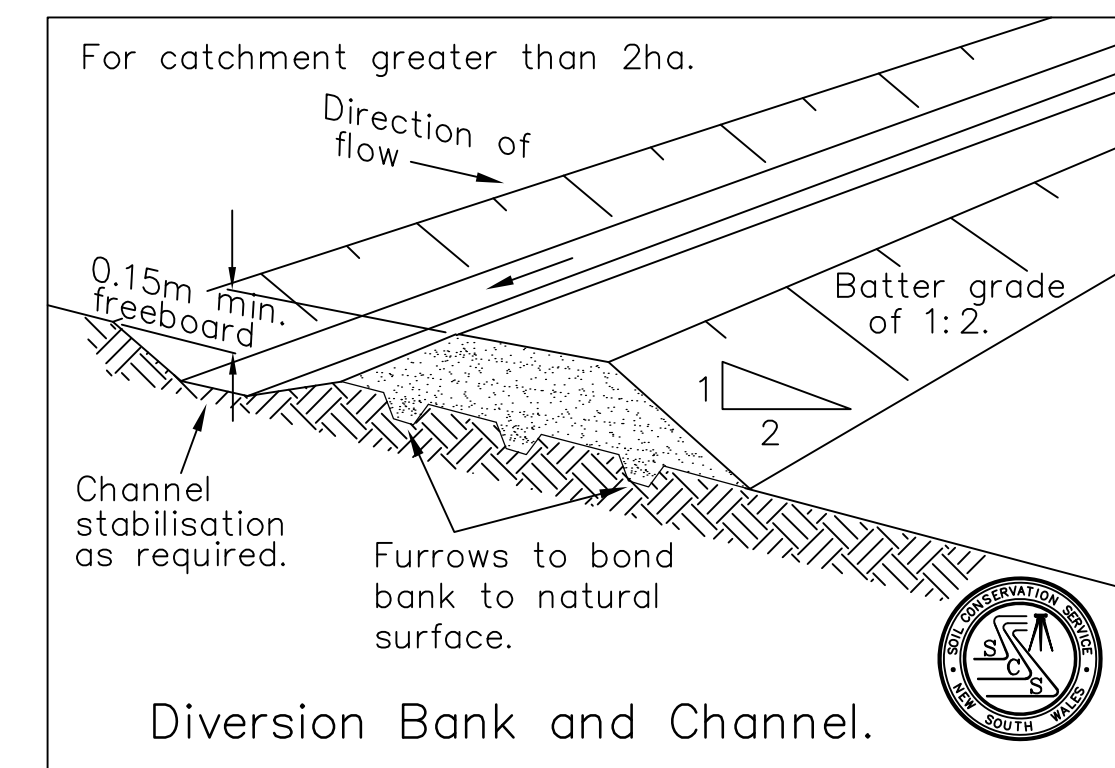
SEDIMENT FENCE
NTS



HAYBALE AND GEOTEXTILE SEDIMENT FILTER
NTS



STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA
NTS



DIVERSION BANK AND CHANNEL
NTS


NOTE:
FOR STOCKPILE DETAIL REFER TO THE "BLUE BOOK" DETAIL SD.4.1

P1	ISSUE FOR REVIEW	06-10-09
Issue	Description	Date

Client	ASHTON COAL
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Status	FOR APPROVAL	
Scales	1:500	Current Issue Signatures
Original Size	A1	Drawn
Height Datum	AHD	Designed
Grid		Checked
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Project	BOWMANS CREEK CAMBERWELL
Title	SEDIMENTATION AND EROSION CONTROL DETAILS


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C047	AA002659	P1