

CONSENT FOR CONSTRUCTION
CARDINIA SHIRE COUNCIL
 Ref No.: S23-073 - T220246
 Sheet: 2 of 17
 Approved by: Vihnu Vijayakumar
 CARDINIA SHIRE COUNCIL
 Date: Friday, 12 April 2024



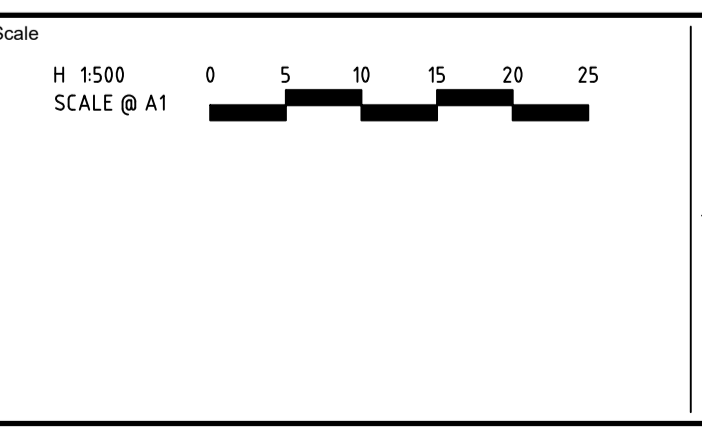
*TYPE B INLET REFER TO CR601 FOR HOUSE DRAIN DETAILS



WARNING
 BEWARE OF UNDERGROUND/OVERHEAD SERVICES
 THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

File Name: 310310CR200.dwg, Layer: asms_CS2000, Method: by Dillon_Praet, File Location: G:\310310\310310\310310\310310\310310.dwg, Plot Date: 06/02/2024, Plot Size: A1, Sheet: 2 of 17, Sheets

Rev	Description	Approved	Date
A	PRELIMINARY ISSUE	B.W	29/01/24
	Amendments		

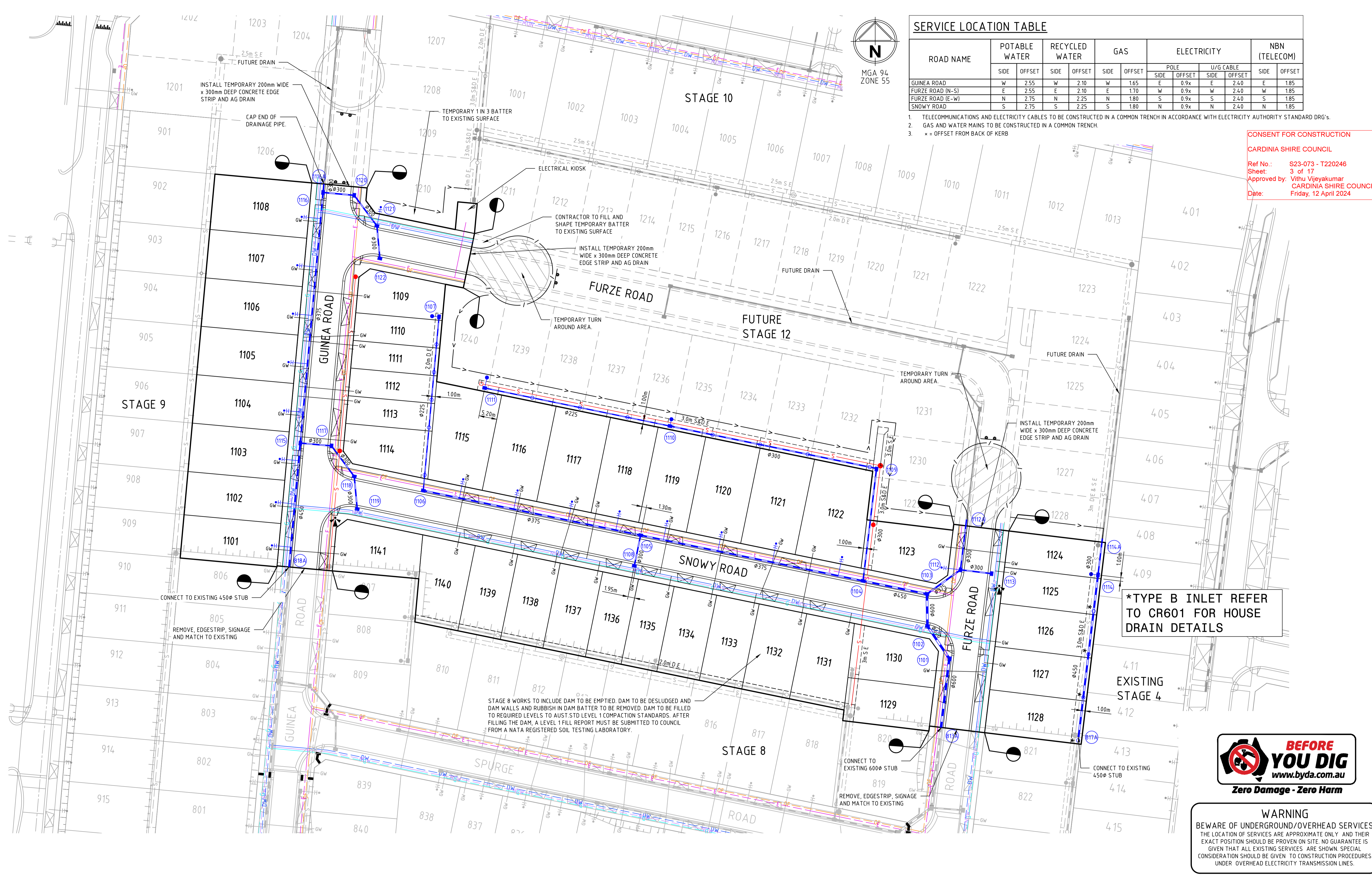


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L6 414 LA TROBE STREET PO BOX 16084 MELBOURNE
 VICTORIA 3007 AUSTRALIA T 61 3 9993 7888
 spiire.com.au ABN 55 050 029 635

Designed: D.PRATT
 Authorised: B.WAREHAM
 Checked: B.IBBS - PE0007167
 Date: JANUARY 2024

OFFICER CENTRAL
STAGE 11
ROAD AND DRAINAGE
ROAD LAYOUT PLANS - FACE PLAN
 CARDINIA SHIRE
 YOURLAND PTY LTD
PRELIMINARY Drg No: 310310CR200 Rev: A



ROAD NAME	POTABLE WATER		RECYCLED WATER		GAS		ELECTRICITY			NBN (TELECOM)		
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE SIDE	U/G CABLE SIDE	OFFSET	SIDE	OFFSET	
GUINEA ROAD	W	2.55	W	2.10	W	1.65	E	0.9x	E	2.40	E	1.85
FURZE ROAD (N-S)	E	2.55	E	2.10	E	1.70	W	0.9x	W	2.40	W	1.85
FURZE ROAD (E-W)	N	2.75	N	2.25	N	1.80	S	0.9x	S	2.40	S	1.85
SNOWY ROAD	S	2.75	S	2.25	S	1.80	N	0.9x	N	2.40	N	1.85

- TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG'S.
- GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.
- * = OFFSET FROM BACK OF KERB

CONSENT FOR CONSTRUCTION
 CARDINIA SHIRE COUNCIL
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STAGE 8 WORKS TO INCLUDE DAM TO BE EMPTIED. DAM TO BE DESLUGGED AND DAM WALLS AND RUBBISH IN DAM BATTER TO BE REMOVED. DAM TO BE FILLED TO REQUIRED LEVELS TO AUST STD LEVEL 1 COMPACTION STANDARDS. AFTER FILLING THE DAM, A LEVEL 1 FILL REPORT MUST BE SUBMITTED TO COUNCIL FROM A NATA REGISTERED SOIL TESTING LABORATORY.

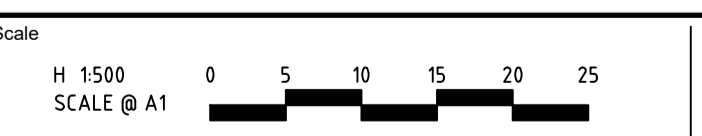
*TYPE B INLET REFER TO CR601 FOR HOUSE DRAIN DETAILS



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Designed: D.PRATT
 Authorised: B.WAREHAM
 Checked: B.IBBS - PE0007167
 Date: JANUARY 2024



OFFICER CENTRAL
STAGE 11
 ROAD AND DRAINAGE
 ROAD LAYOUT PLANS - SERVICES PLAN
 CARDINIA SHIRE
 YOURLAND PTY LTD

PRELIMINARY Drg No: 310310CR201

Rev A

CONSENT FOR CONSTRUCTION
 CARDINIA SHIRE COUNCIL
 Ref No.: S23-073 - T220246
 Sheet: 4 of 17
 Approved by: Vithu Vijeyakumar
 CARDINIA SHIRE COUNCIL
 Date: Friday, 12 April 2024



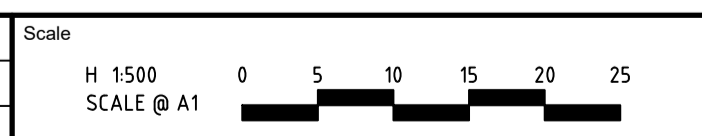
 FILL GREATER THAN 200mm
 CUT GREATER THAN 200mm



WARNING
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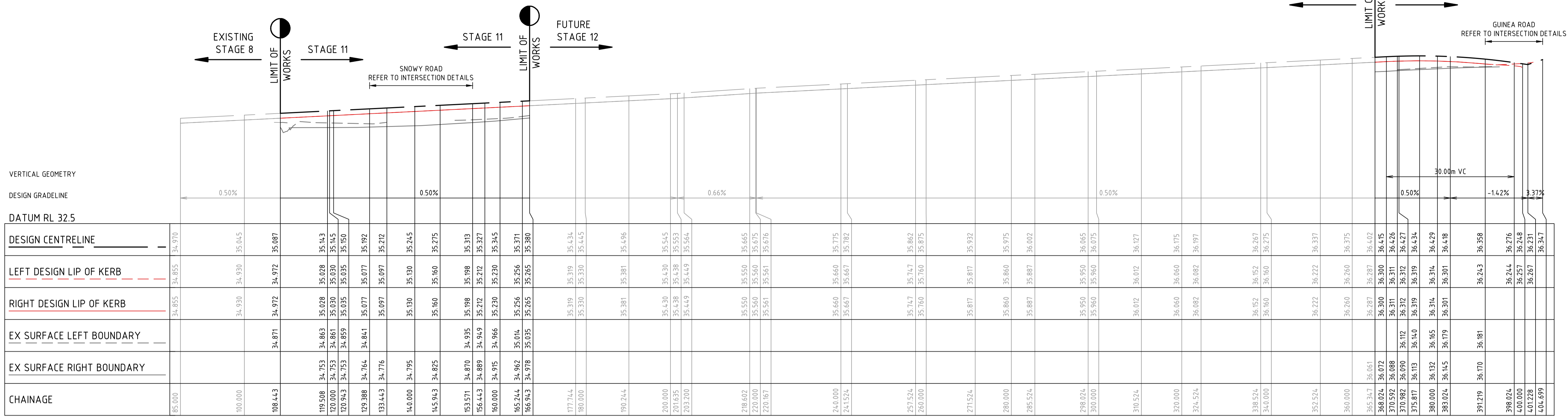
Designed
 D.PRATT
 Authorised
 B.WAREHAM
 Checked
 B.IBBS - PE0007167
 Date
 JANUARY 2024

OFFICER CENTRAL
STAGE 11
 ROAD AND DRAINAGE
 ROAD LAYOUT PLANS - EARTHWORKS PLAN
 CARDINIA SHIRE
 YOURLAND PTY LTD

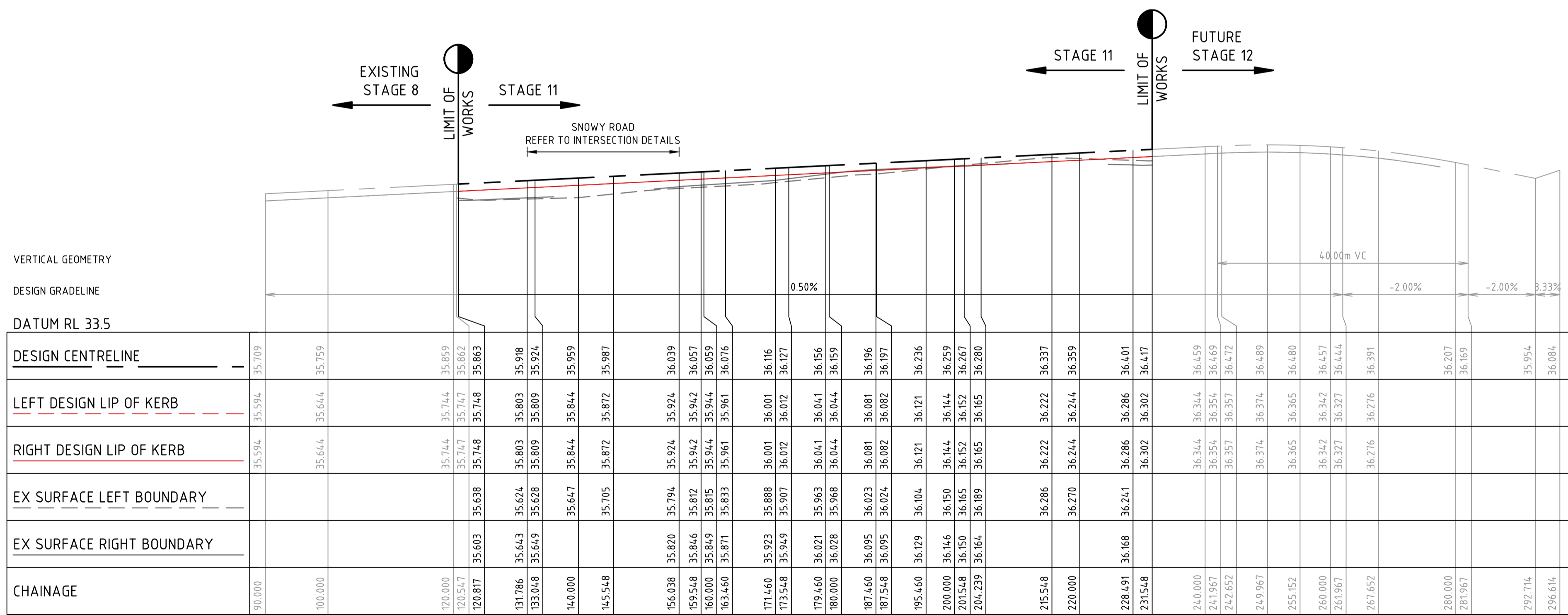
PRELIMINARY Drg No 310310CR202

Rev
A

CONSENT FOR CONSTRUCTION
 CARDINIA SHIRE COUNCIL
 Ref No.: S23-073 - T220246
 Sheet: 5 of 17
 Approved by: Vithu Vijeyakumar
 CARDINIA SHIRE COUNCIL
 Date: Friday, 12 April 2024



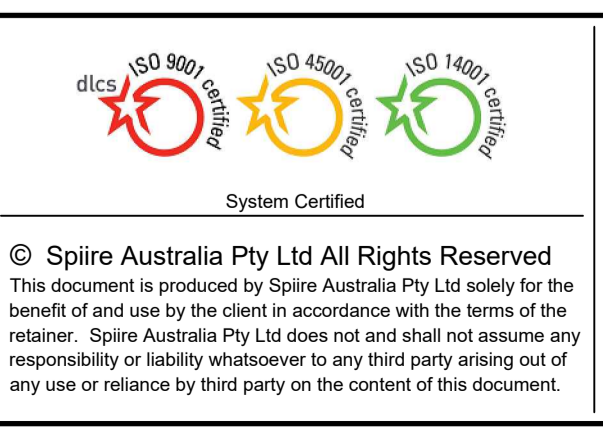
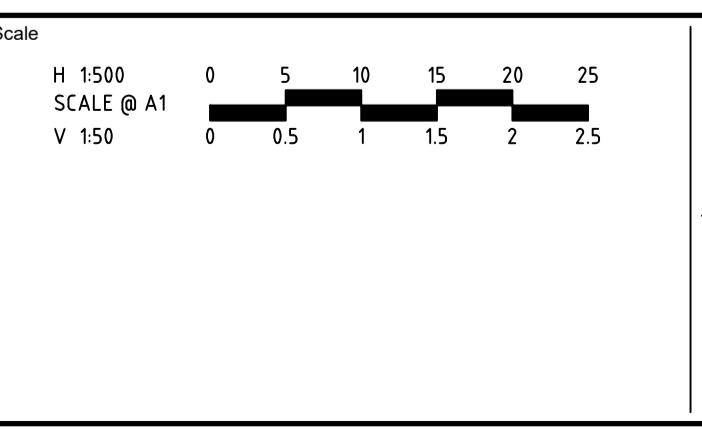
FURZE ROAD



GUINEA ROAD

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A	PRELIMINARY ISSUE	B.W	29/01/24
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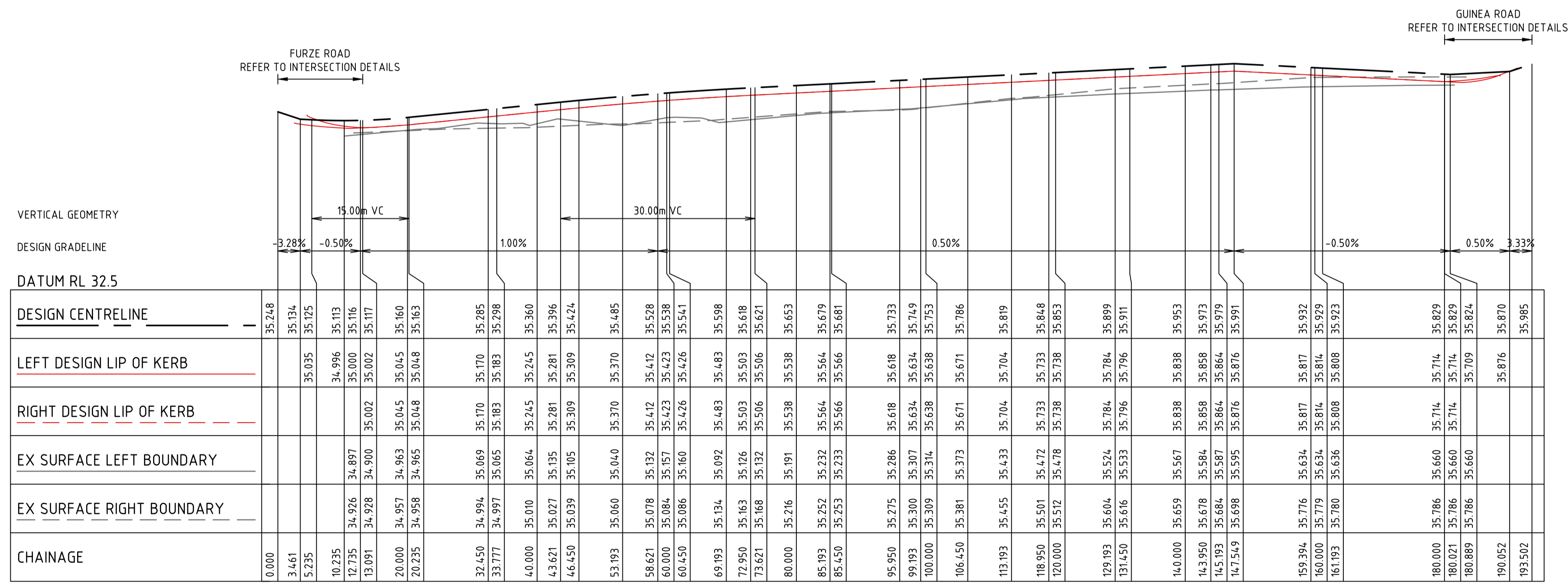
YourLand Developments

Designed: D.PRATT
 Authorised: B.WAREHAM

Checked: B.IBBS - PE0007167
 Date: JANUARY 2024

OFFICER CENTRAL
STAGE 11
 ROAD AND DRAINAGE
 ROAD LONG SECTIONS - SHEET 1
 CARDINIA SHIRE
 YOURLAND PTY LTD

PRELIMINARY Drg No: **310310CR300** Rev: **A**

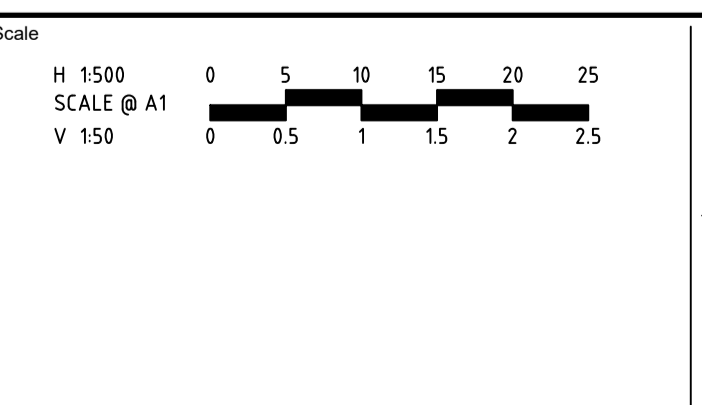


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3.461	35.134				
5.235	35.035	35.025			
10.235	34.926	34.897	34.916		
13.091	34.928	34.900	35.002		
20.000	34.957	34.963	35.045	35.160	
20.235	34.958	34.965	35.048	35.163	
32.450	34.994	35.069	35.170	35.285	
33.777	34.997	35.065	35.183	35.298	
4.0.000	35.010	35.064	35.245	35.360	
4.3.621	35.027	35.135	35.281	35.396	
4.6.450	35.039	35.105	35.309	35.424	
53.193	35.060	35.040	35.370	35.485	
58.621	35.078	35.132	35.412	35.528	
60.000	35.084	35.157	35.423	35.538	
60.450	35.086	35.160	35.426	35.541	
69.193	35.134	35.092	35.483	35.598	
72.950	35.163	35.126	35.503	35.618	
73.621	35.168	35.132	35.506	35.621	
80.000	35.216	35.191	35.538	35.653	
85.193	35.252	35.232	35.564	35.679	
85.450	35.253	35.233	35.566	35.681	
95.950	35.275	35.286	35.618	35.733	
99.193	35.300	35.307	35.634	35.749	
100.000	35.309	35.314	35.638	35.753	
106.450	35.381	35.373	35.671	35.786	
113.193	35.455	35.433	35.704	35.819	
118.950	35.501	35.472	35.733	35.848	
120.000	35.512	35.478	35.738	35.853	
129.193	35.604	35.524	35.784	35.899	
131.450	35.616	35.533	35.786	35.911	
140.000	35.659	35.567	35.838	35.953	
143.950	35.678	35.584	35.858	35.973	
145.193	35.684	35.587	35.864	35.979	
147.549	35.698	35.595	35.876	35.991	
159.394	35.716	35.634	35.817	35.932	
160.000	35.719	35.634	35.814	35.929	
161.193	35.780	35.636	35.808	35.923	
180.000	35.786	35.660	35.714	35.829	
180.021	35.786	35.660	35.714	35.829	
180.889	35.786	35.660	35.714	35.824	
190.052				35.870	
193.502				35.985	

SNOWY ROAD

file name: 310310CR300.dwg | rev: 1 | sheet: 6 of 17 | sheet: 6 of 17 | sheet: 6 of 17
 file location: \\spire\media\310310CR300.dwg | plot date: 06/02/2024 4:41 PM | sheet: 6 of 17 | sheets: 17

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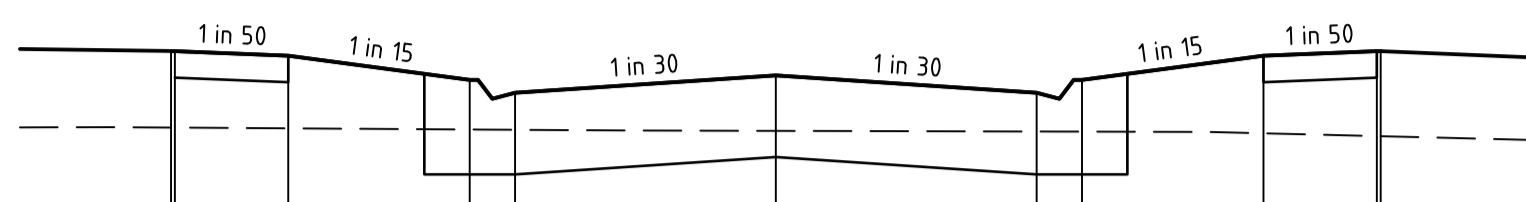
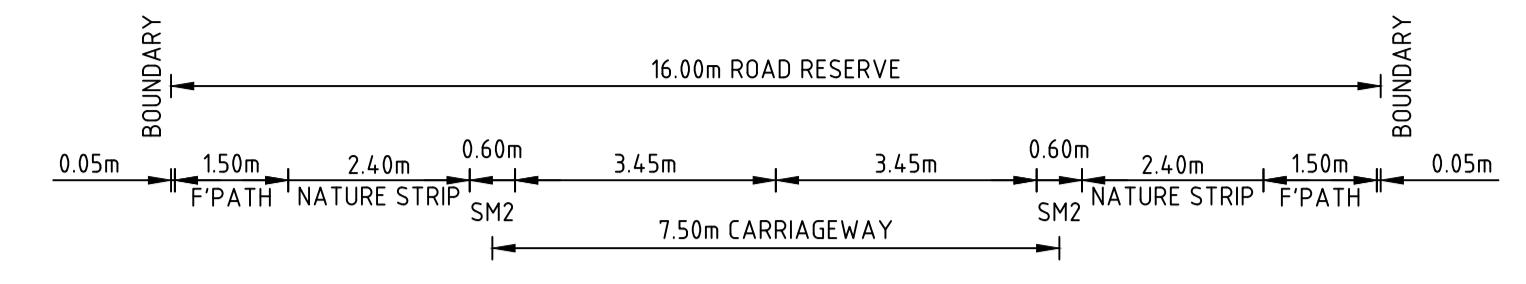
Designed: D.PRATT
 Authorised: B.WAREHAM
 Checked: B.IBBS - PE0007167
 Date: JANUARY 2024

OFFICER CENTRAL
STAGE 11
ROAD AND DRAINAGE
ROAD LONG SECTIONS - SHEET 2
 CARDINIA SHIRE
 YOURLAND PTY LTD

PRELIMINARY Drg No **310310CR301** Rev **A**

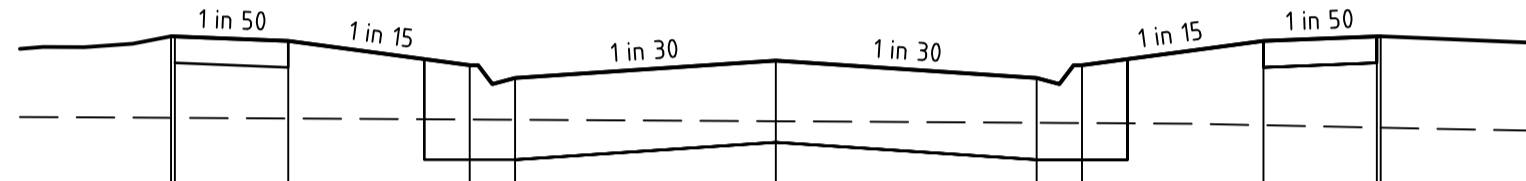
FILLING NOTE
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CONSENT FOR CONSTRUCTION
 CARDINIA SHIRE COUNCIL
 Ref No.: S23-073 - T220246
 Sheet: 7 of 17
 Approved by: Vithu Vijayakumar
 CARDINIA SHIRE COUNCIL
 Date: Friday, 12 April 2024



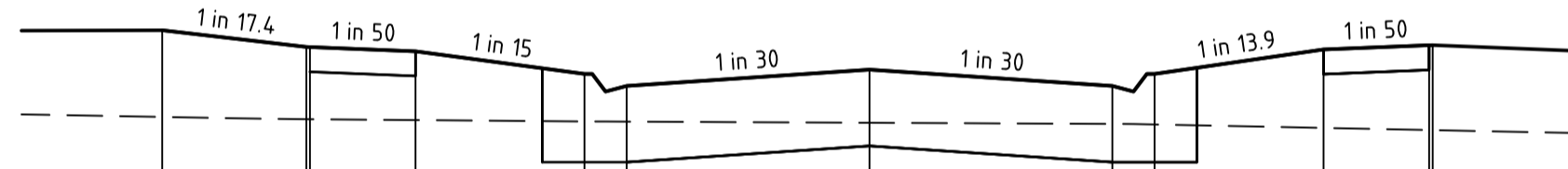
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OFFSET										

FURZE ROAD CH 166.94



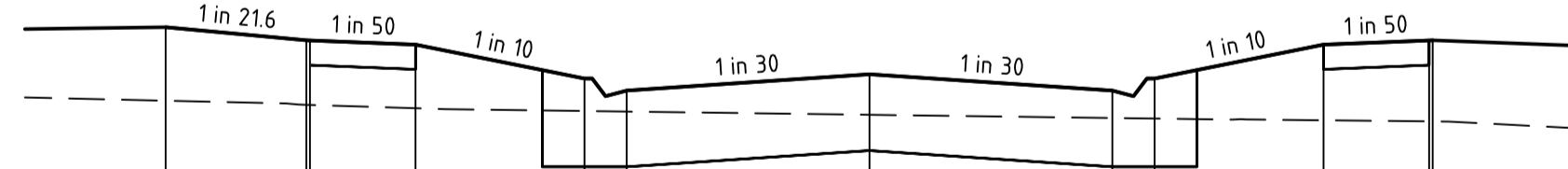
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EXISTING SURFACE LEVEL										
OFFSET										

FURZE ROAD CH 153.57



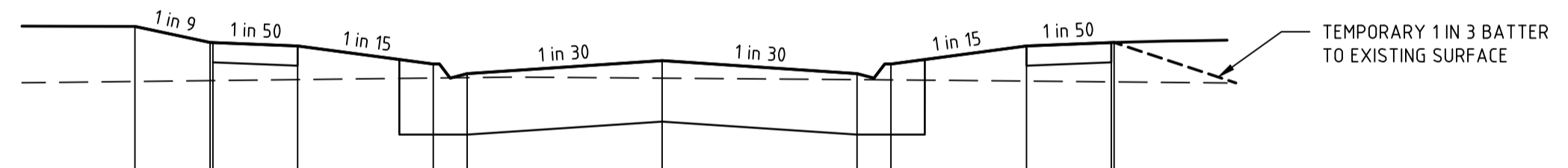
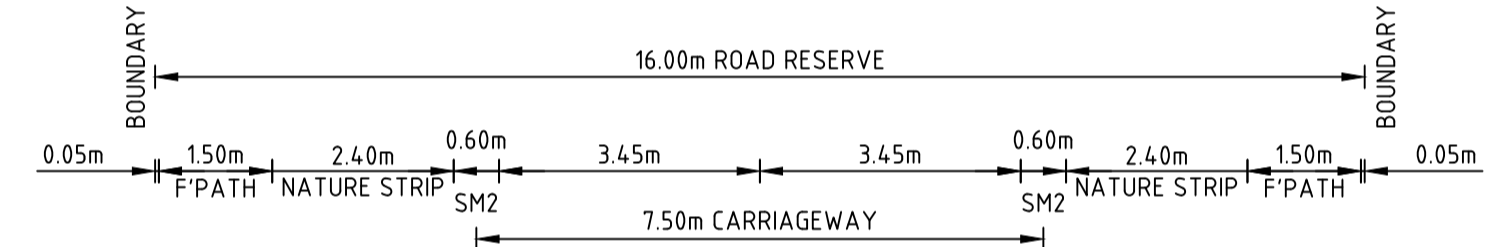
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EXISTING SURFACE LEVEL										
OFFSET										

FURZE ROAD CH 129.39



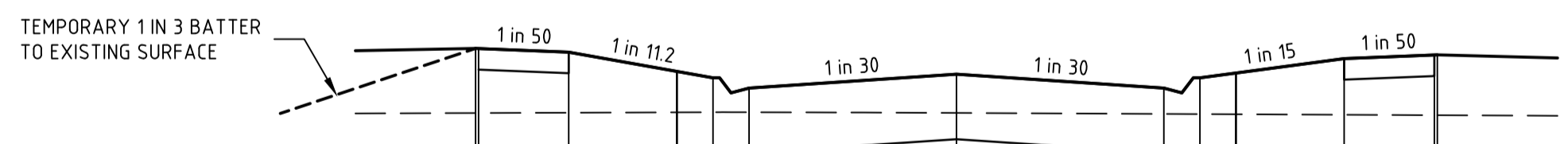
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DESIGN SURFACE LEVEL										
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OFFSET										

FURZE ROAD CH 108.44



DATUM R.L.35.0										
DESIGN SURFACE LEVEL										
EXISTING SURFACE LEVEL										
OFFSET										

FURZE ROAD CH 391.22

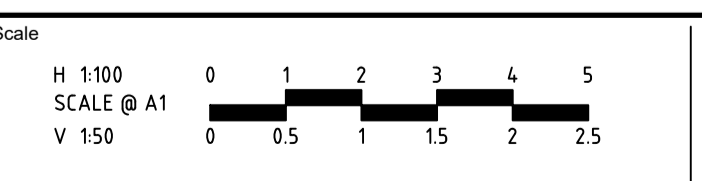


DATUM R.L.35.0										
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EXISTING SURFACE LEVEL										
OFFSET										

FURZE ROAD CH 365.35

file name: 310310CR400.dwg, layout: csmc_C64.00, plotted by: Dilipkumar, plot date: 06/02/2024, 4:42 PM, Sheet 7 of 17 Sheets

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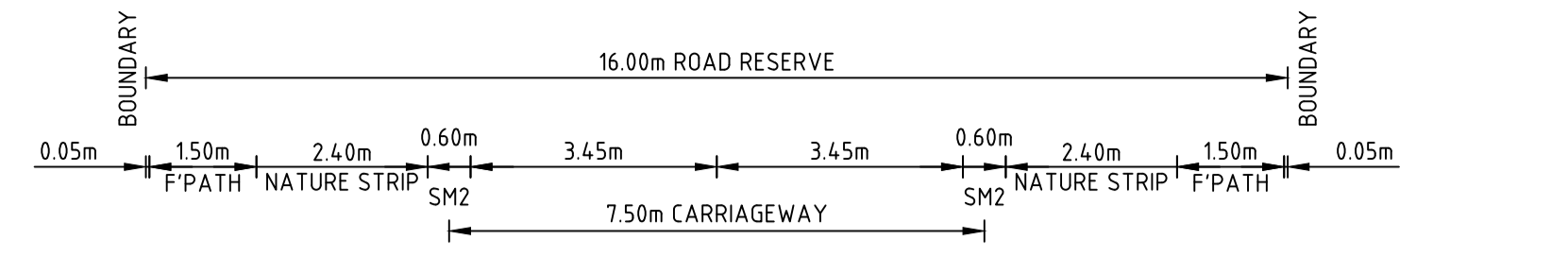
Designed: D.PRATT
 Authorised: B.WAREHAM
 Checked: B.IBBS - PE0007167
 Date: JANUARY 2024

OFFICER CENTRAL
STAGE 11
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 1
 CARDINIA SHIRE
 YOURLAND PTY LTD

PRELIMINARY Drg No: 310310CR400 Rev: A

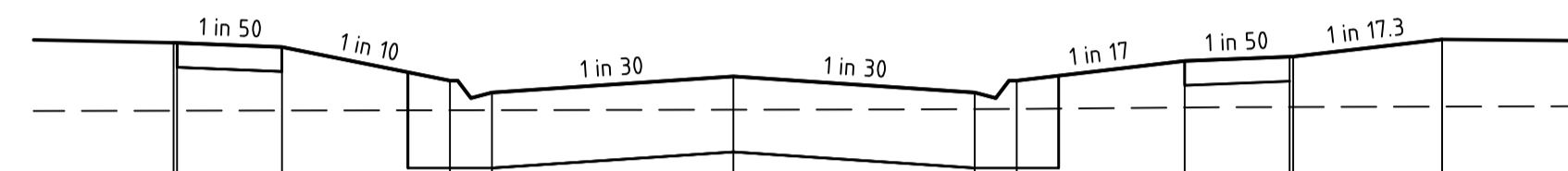
FILLING NOTE
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 CARDINIA SHIRE COUNCIL
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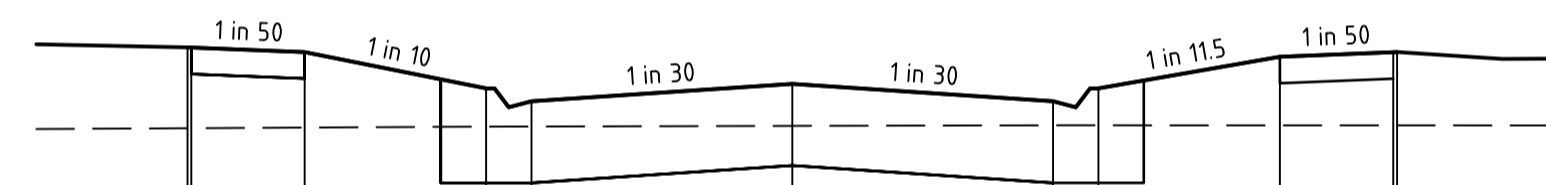
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EXISTING SURFACE LEVEL	
OFFSET	

GUINEA ROAD CH 179.46



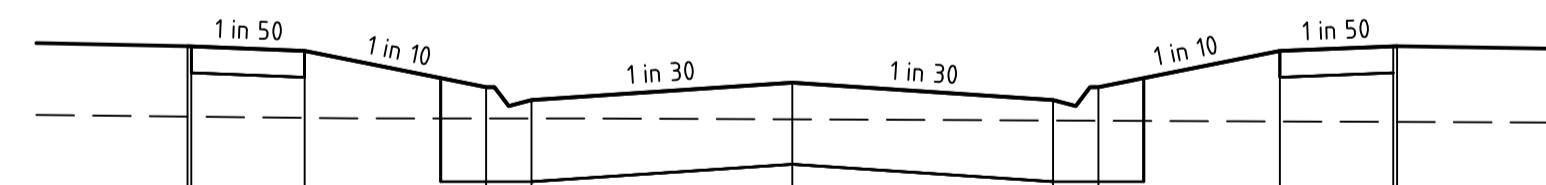
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EXISTING SURFACE LEVEL	
OFFSET	

GUINEA ROAD CH 156.04



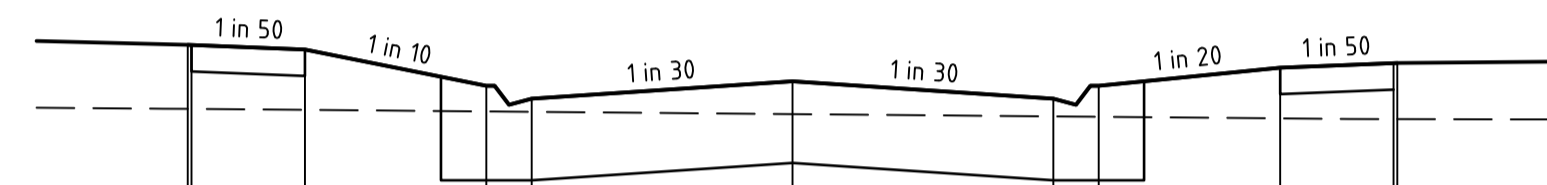
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EXISTING SURFACE LEVEL	
OFFSET	

GUINEA ROAD CH 131.79



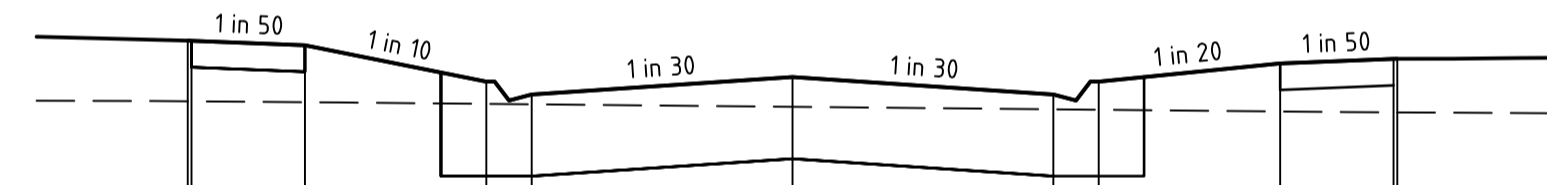
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EXISTING SURFACE LEVEL	
OFFSET	

GUINEA ROAD CH 120.82



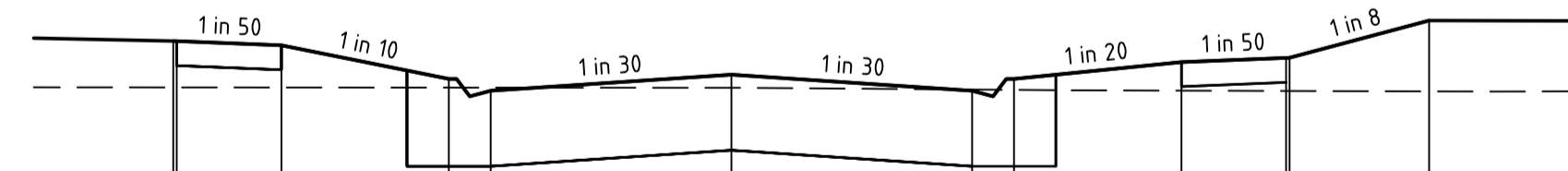
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EXISTING SURFACE LEVEL	
OFFSET	

GUINEA ROAD CH 231.55



DATUM R.L. 35.0	
DESIGN SURFACE LEVEL	-8.000 36.241 36.642 36.641 36.611 -4.050 36.224 36.371 36.286 -3.450 36.221 36.286 0.000 36.205 36.401 3.450 36.188 36.286 4.050 36.185 36.371 6.450 36.174 36.491 7.950 36.168 36.521 8.000 36.168 36.522
EXISTING SURFACE LEVEL	
OFFSET	

GUINEA ROAD CH 228.49



DATUM R.L. 35.0	
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EXISTING SURFACE LEVEL	
OFFSET	

GUINEA ROAD CH 204.24

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ISO 9001	Registered		
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Designed
D.PRATT

Checked
B.IBBS - PE0007167

Authorised
B.WAREHAM

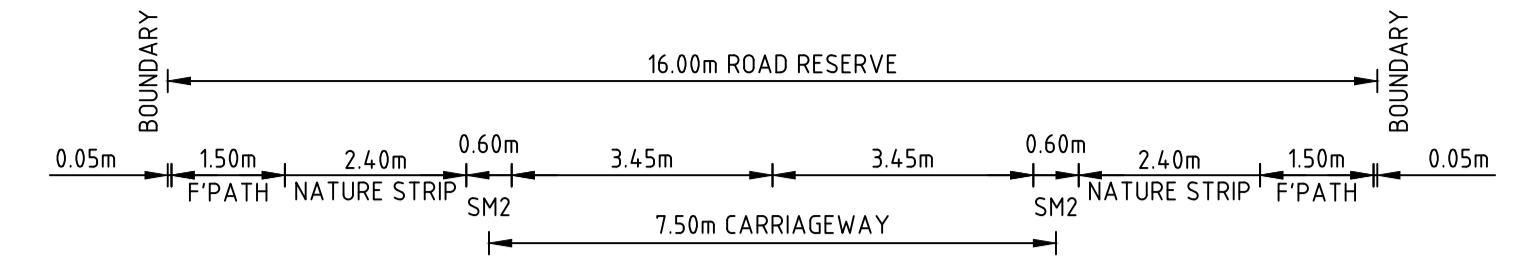
Date
JANUARY 2024

**OFFICER CENTRAL
 STAGE 11
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - SHEET 2
 CARDINIA SHIRE
 YOURLAND PTY LTD**

PRELIMINARY Dwg No 310310CR401 Rev A

FILLING NOTE
 ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.

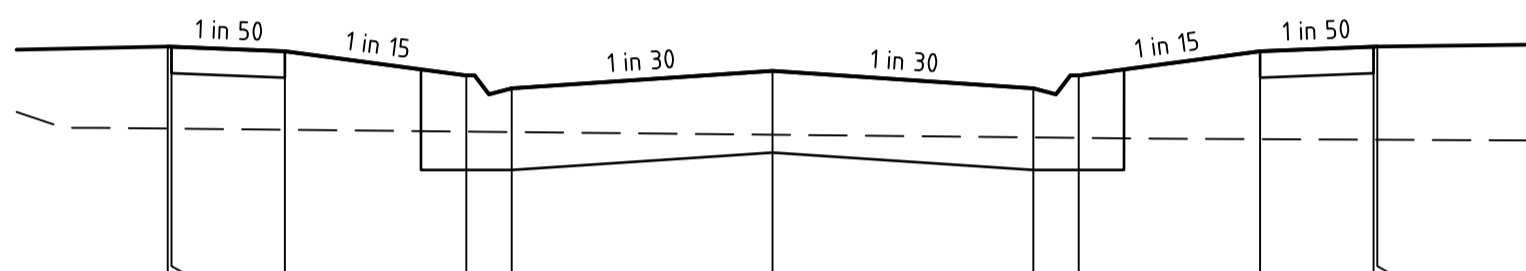
CONSENT FOR CONSTRUCTION
 CARDINIA SHIRE COUNCIL
 Ref No.: S23-073 - T220246
 Sheet: 9 of 17
 Approved by: Vithu Vijayakumar
 CARDINIA SHIRE COUNCIL
 Date: Friday, 12 April 2024



DATUM R.L.34.0

DESIGN SURFACE LEVEL	35.842	35.841	35.811	35.651	35.566	35.681	35.566	35.651	35.811	35.841	35.842
EXISTING SURFACE LEVEL	35.233	35.233	35.235	35.239	35.240	35.245	35.251	35.251	35.253	35.253	35.253
OFFSET	-8.000	-7.950	-6.450	-4.050	-3.450	0.000	3.450	4.050	6.450	7.950	8.000

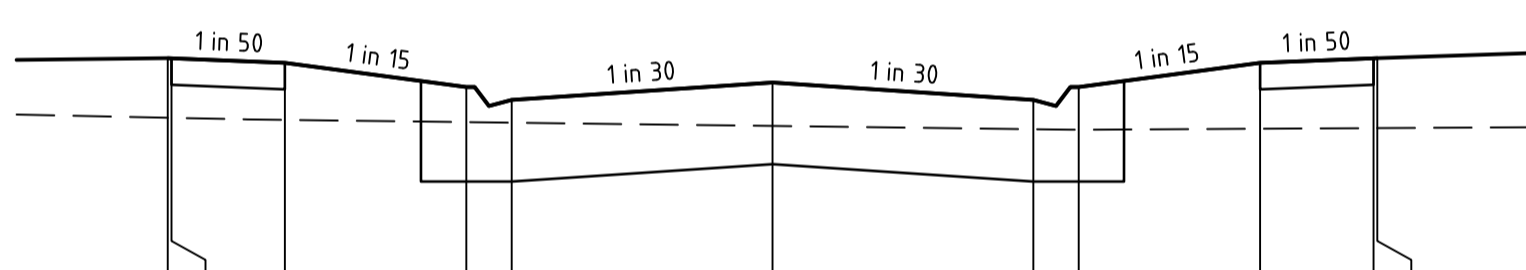
SNOWY ROAD CH 85.45



DATUM R.L.34.0

DESIGN SURFACE LEVEL	35.702	35.701	35.671	35.511	35.426	35.541	35.426	35.511	35.671	35.701	35.702
EXISTING SURFACE LEVEL	35.160	35.160	35.152	35.140	35.137	35.119	35.098	35.098	35.090	35.086	35.102
OFFSET	-8.000	-7.950	-6.450	-4.050	-3.450	0.000	3.450	4.050	6.450	7.950	8.000

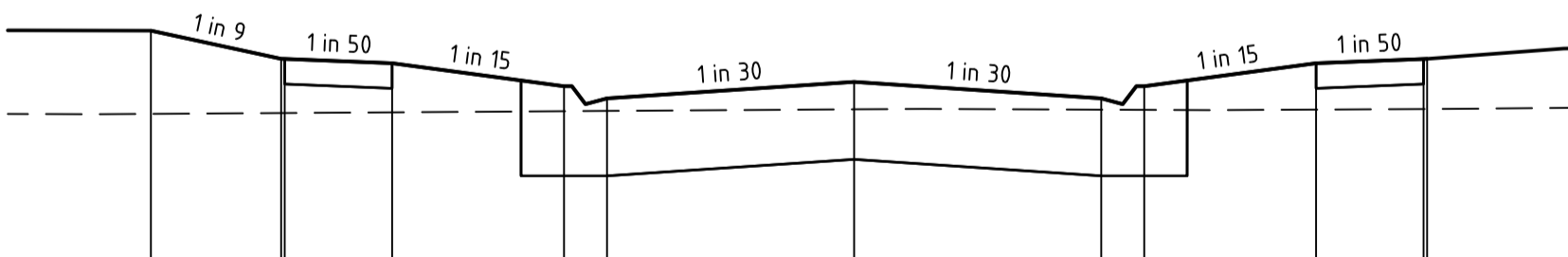
SNOWY ROAD CH 60.45



DATUM R.L.34.0

DESIGN SURFACE LEVEL	35.459	35.458	35.428	35.268	35.183	35.298	35.183	35.268	35.428	35.458	35.459
EXISTING SURFACE LEVEL	35.065	35.065	35.051	35.036	35.032	35.011	34.989	34.986	34.992	34.996	35.458
OFFSET	-8.000	-7.950	-6.450	-4.050	-3.450	0.000	3.450	4.050	6.450	7.950	8.000

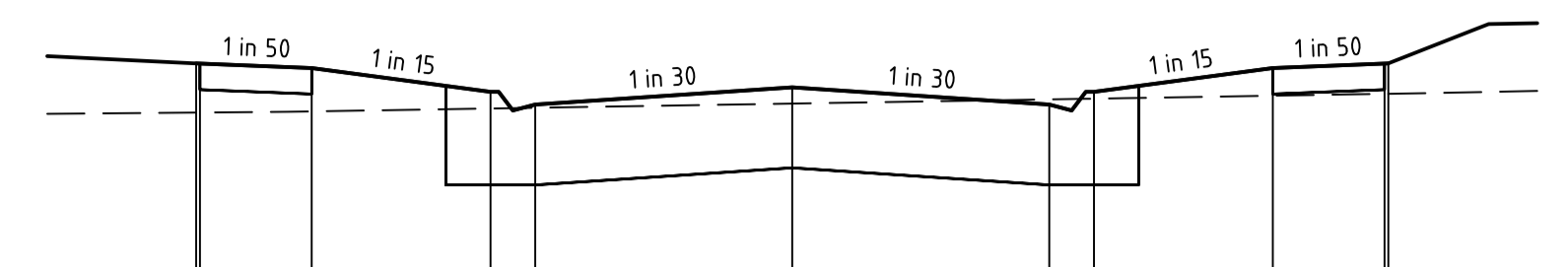
SNOWY ROAD CH 33.78



DATUM R.L.33.0

DESIGN SURFACE LEVEL	35.474	35.278	35.277	35.247	35.087	35.022	35.087	35.247	35.277	35.278	35.474
EXISTING SURFACE LEVEL	34.900	34.900	34.905	34.914	34.914	34.925	34.923	34.922	34.928	34.928	35.278
OFFSET	-9.817	-8.000	-7.950	-6.450	-4.050	-3.450	0.000	3.450	4.050	6.450	8.000

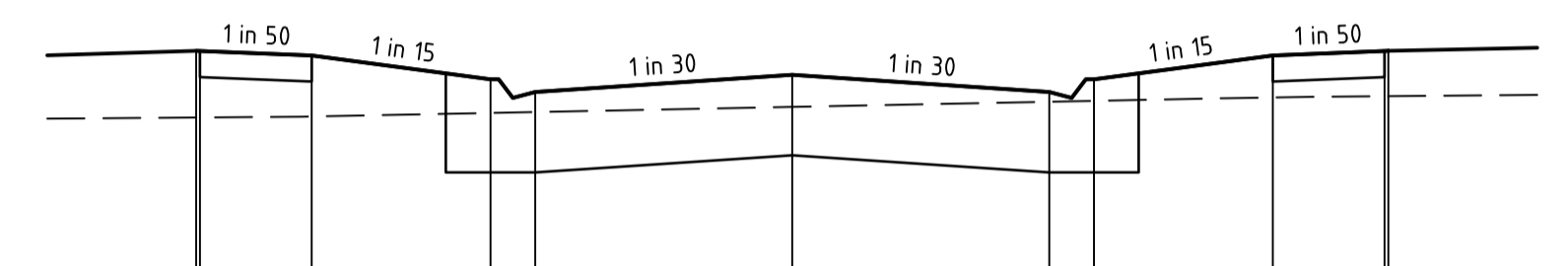
SNOWY ROAD CH 13.09



DATUM R.L.34.0

DESIGN SURFACE LEVEL	35.990	35.989	35.959	35.799	35.714	35.829	35.714	35.799	35.959	35.989	35.990
EXISTING SURFACE LEVEL	35.660	35.660	35.667	35.687	35.692	35.720	35.748	35.753	35.773	35.785	35.866
OFFSET	-8.000	-7.950	-6.450	-4.050	-3.450	0.000	3.450	4.050	6.450	7.950	8.000

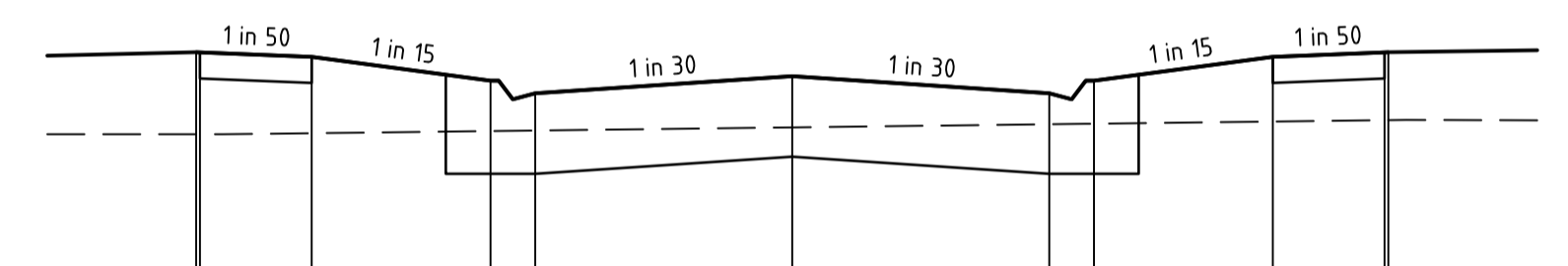
SNOWY ROAD CH 180.02



DATUM R.L.34.0

DESIGN SURFACE LEVEL	36.084	36.083	36.053	35.893	35.808	35.923	35.808	35.893	36.053	36.083	36.084
EXISTING SURFACE LEVEL	35.636	35.636	35.643	35.667	35.673	35.708	35.742	35.748	35.771	35.780	36.084
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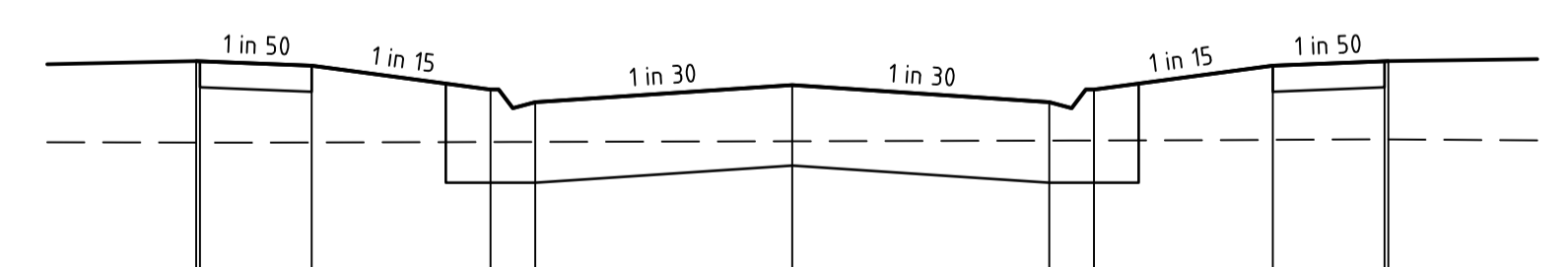
SNOWY ROAD CH 161.19



DATUM R.L.34.0

DESIGN SURFACE LEVEL	36.354	36.354	36.303	35.943	35.858	35.973	35.858	35.943	36.303	36.354	36.354
EXISTING SURFACE LEVEL	35.584	35.584	35.590	35.605	35.609	35.630	35.651	35.654	35.669	35.678	36.354
OFFSET	-8.000	-7.950	-6.450	-4.050	-3.450	0.000	3.450	4.050	6.450	7.950	8.000

SNOWY ROAD CH 143.95



DATUM R.L.34.0

DESIGN SURFACE LEVEL	35.980	35.979	35.949	35.789	35.704	35.819	35.704	35.789	35.949	35.979	35.980
EXISTING SURFACE LEVEL	35.433	35.433	35.434	35.437	35.438	35.442	35.447	35.448	35.452	35.455	35.980
OFFSET	-8.000	-7.950	-6.450	-4.050	-3.450	0.000	3.450	4.050	6.450	7.950	8.000

SNOWY ROAD CH 113.19

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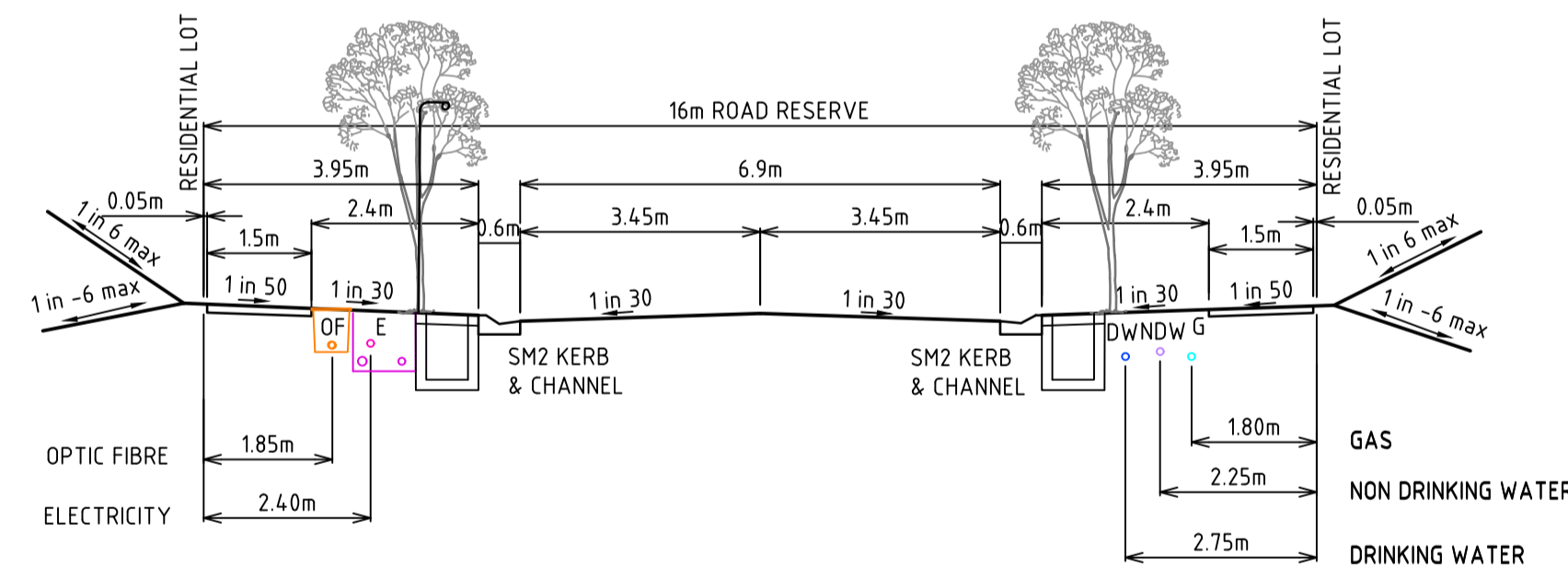
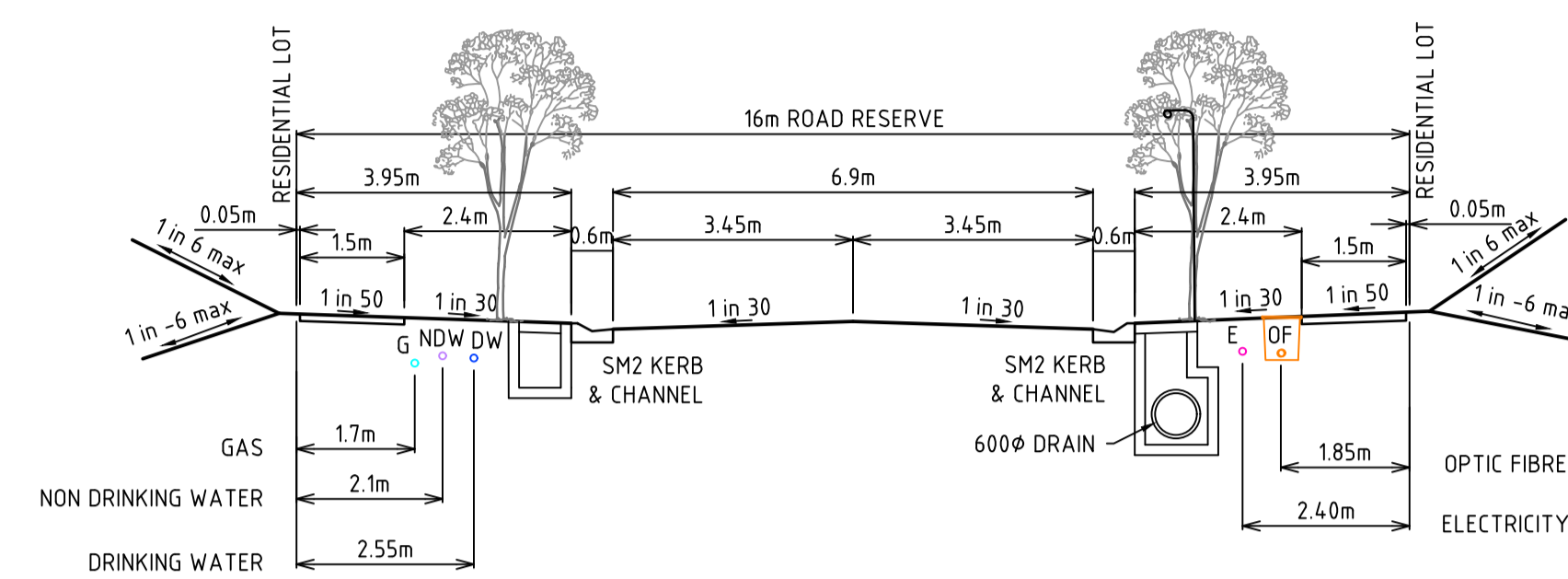
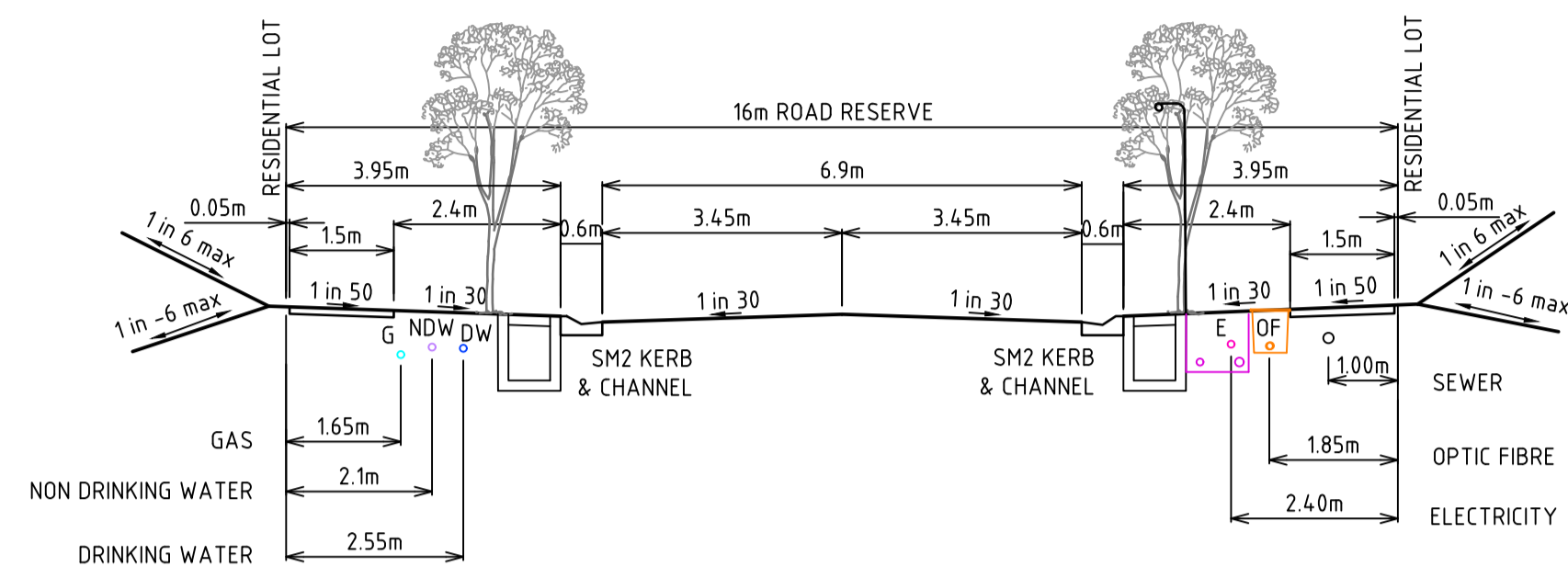
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Designed D.PRATT	Checked B.IBBS - PE0007167
Authorised B.WAREHAM	Date JANUARY 2024

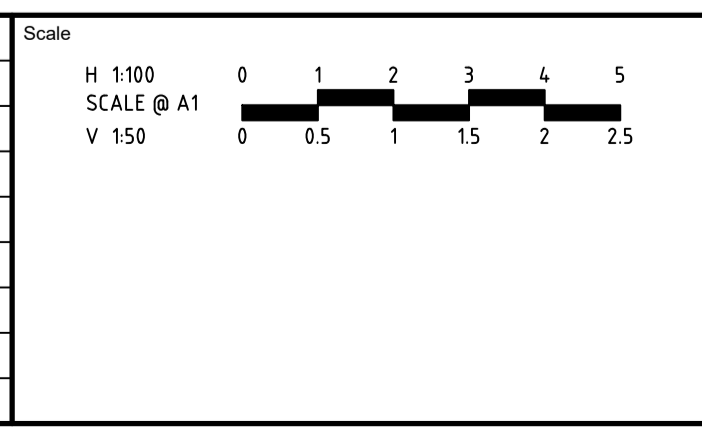
**OFFICER CENTRAL
 STAGE 11
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - SHEET 3
 CARDINIA SHIRE
 YOURLAND PTY LTD**

PRELIMINARY Drg No **310310CR402** Rev **A**



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Rev	Description	Approved	Date
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	Amendments		



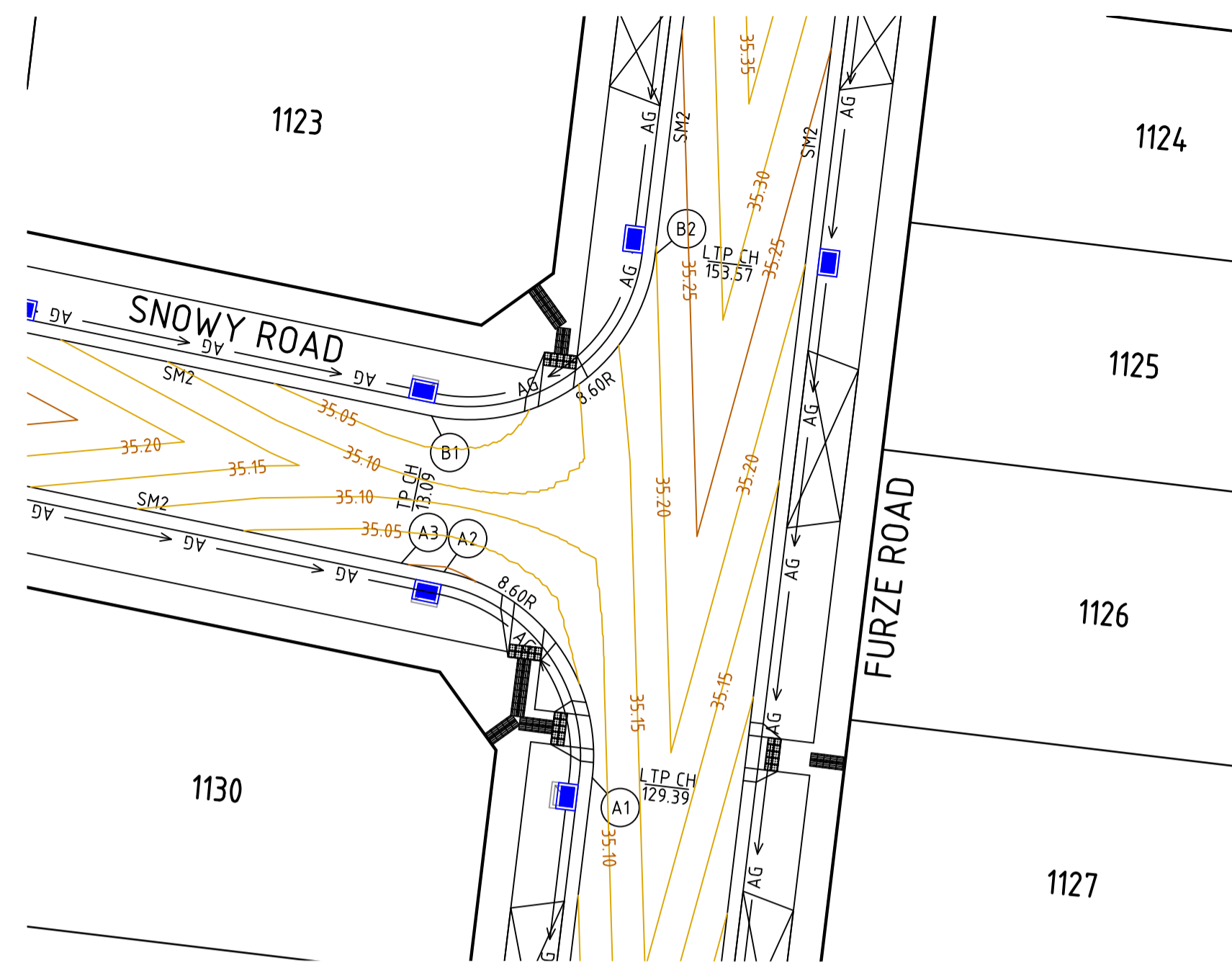
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 Checked: B.IBBS - PE0007167
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OFFICER CENTRAL
STAGE 11
ROAD AND DRAINAGE
TYPICAL CROSS SECTIONS
 CARDINIA SHIRE
 YOURLAND PTY LTD
PRELIMINARY

Drg No: 310310CR403
 Rev: A



INTERSECTION DETAIL PLAN
INTERSECTION OF SNOWY ROAD AND FURZE ROAD



ALIGNMENT A

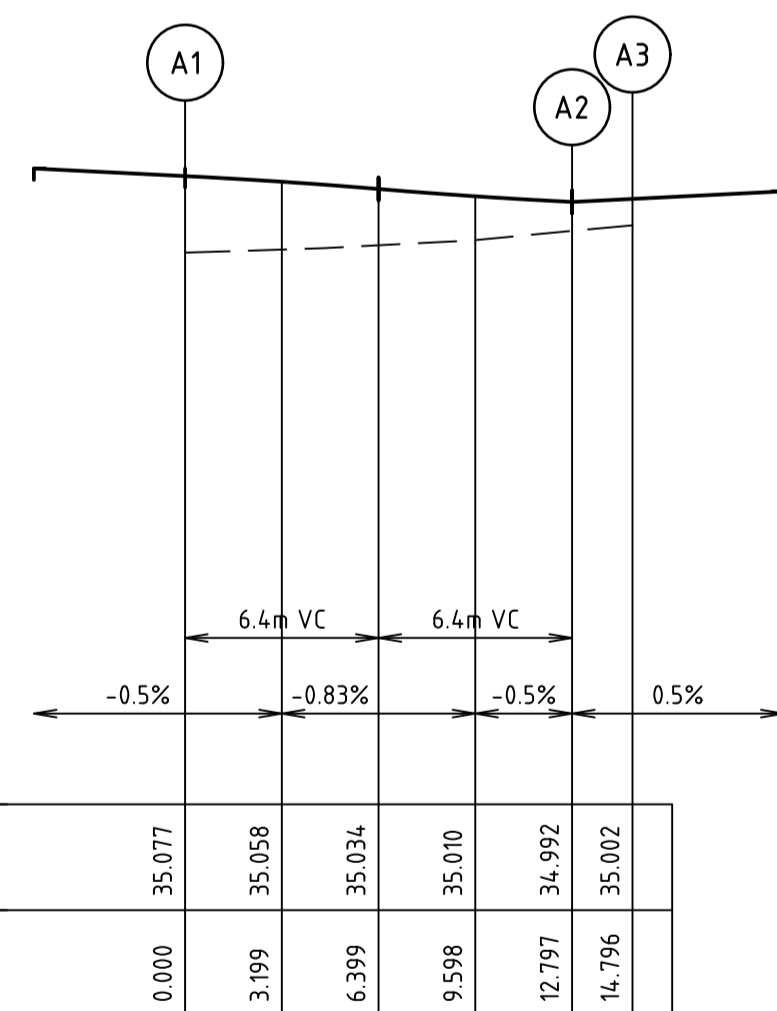
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A1	359369.993	5785332.112	35.077
1/4	359369.782	5785335.286	35.058
1/2	359368.432	5785338.166	35.034
3/4	359366.128	5785340.358	35.010
A2	359363.184	5785341.563	34.992
A3	359361.226	5785341.965	35.002

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
A1-A2	8.600	12.797	11.649	2.273	-0.588

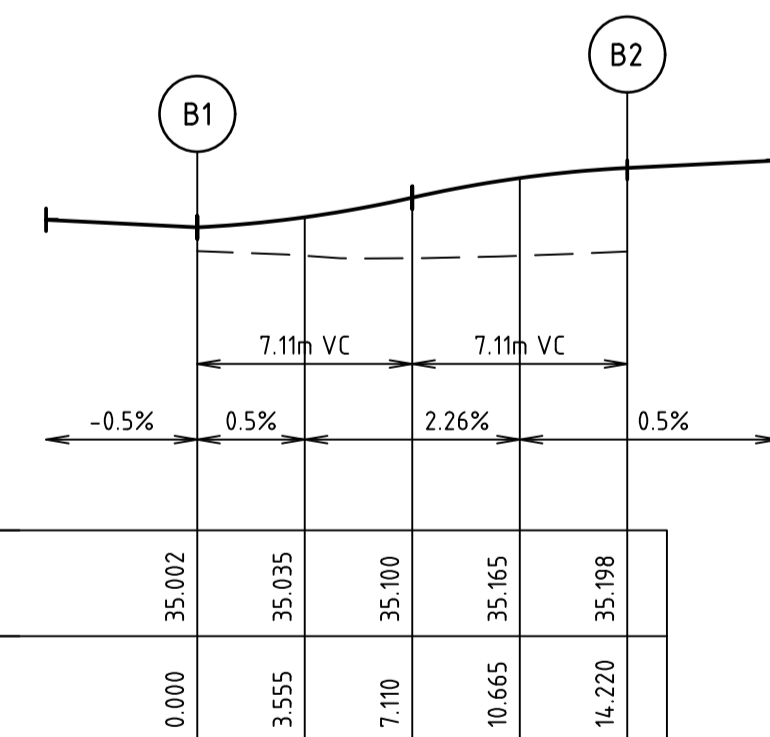
ALIGNMENT B

POINT NO	EASTING	NORTHING	RL
B1	359362.613	5785348.724	35.002
1/4	359366.143	5785348.739	35.035
1/2	359369.369	5785350.171	35.100
3/4	359371.749	5785352.778	35.165
B2	359372.880	5785356.122	35.198

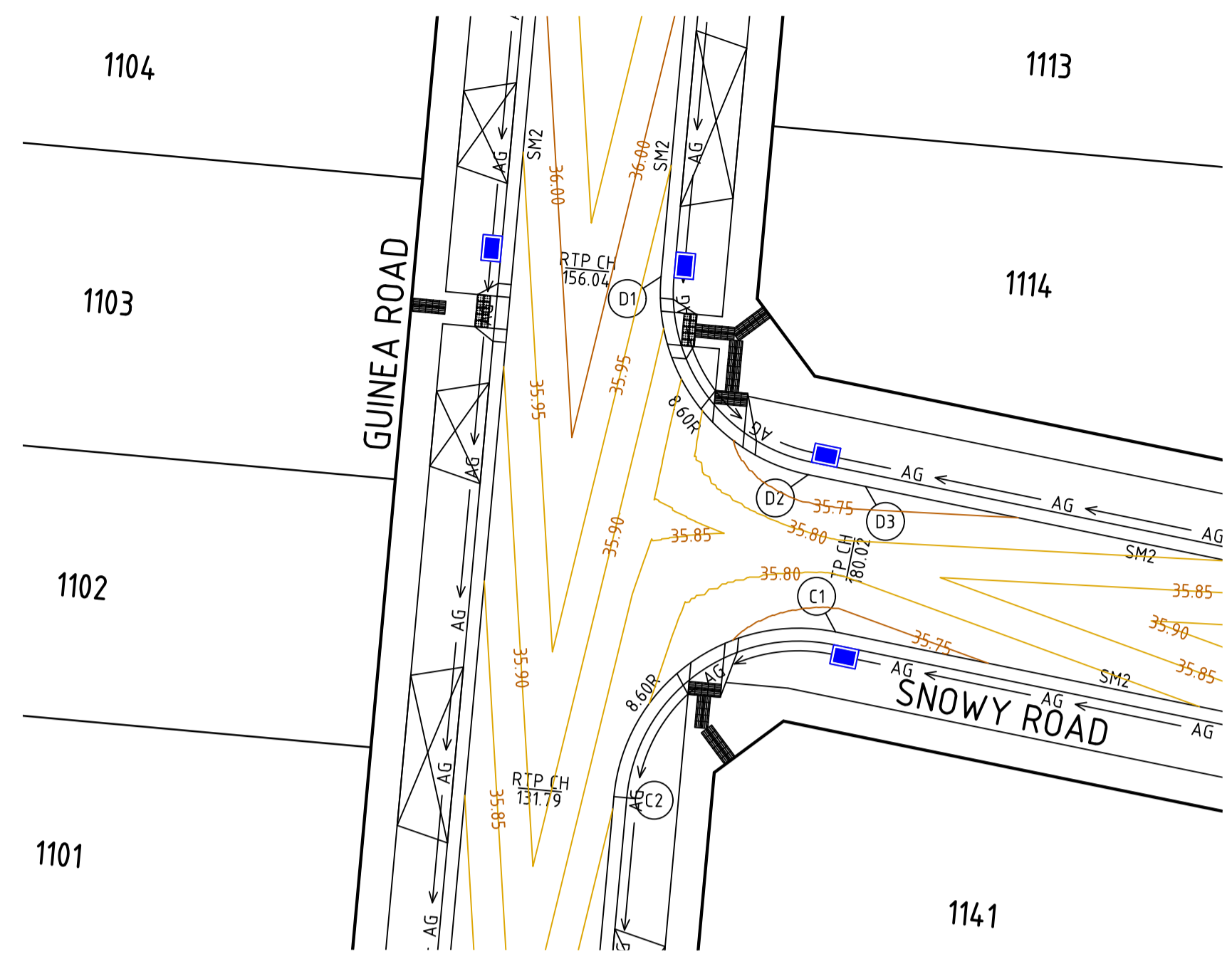
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B1-B2	8.600	14.220	12.655	2.776	-0.724



ALIGNMENT A



ALIGNMENT B



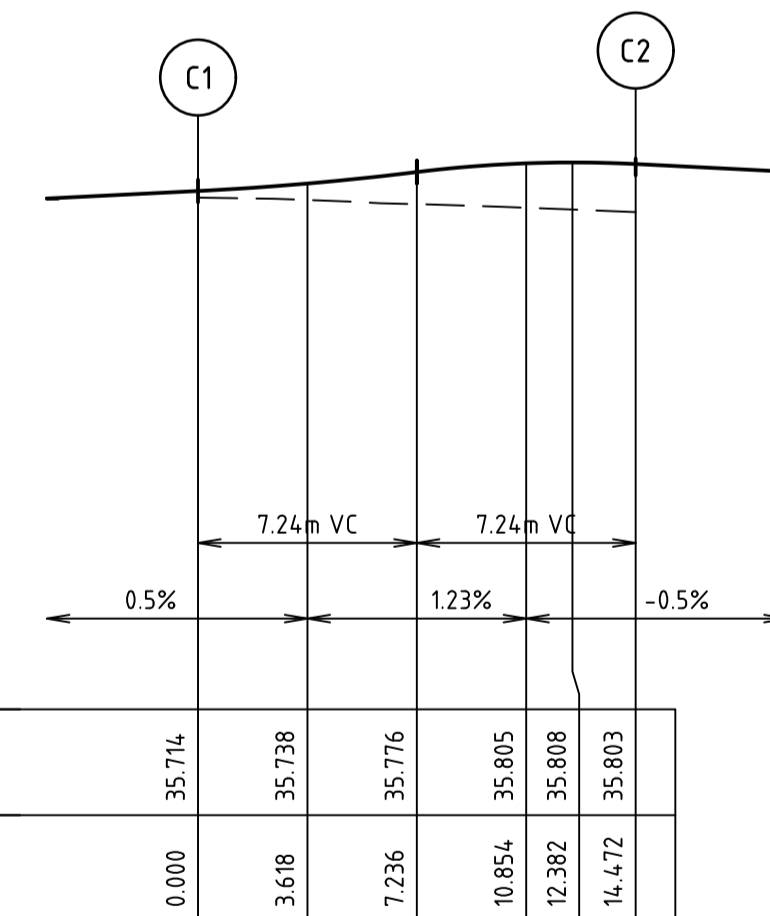
INTERSECTION DETAIL PLAN
INTERSECTION OF SNOWY ROAD AND GUINEA ROAD



ALIGNMENT C

POINT NO	EASTING	NORTHING	RL
C1	359197.703	5785375.523	35.714
1/4	359194.112	5785375.494	35.738
1/2	359190.846	5785374.002	35.776
3/4	359188.474	5785371.305	35.805
C2	359187.410	5785367.875	35.803

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
C1-C2	8.600	14.472	12.824	2.869	-0.750

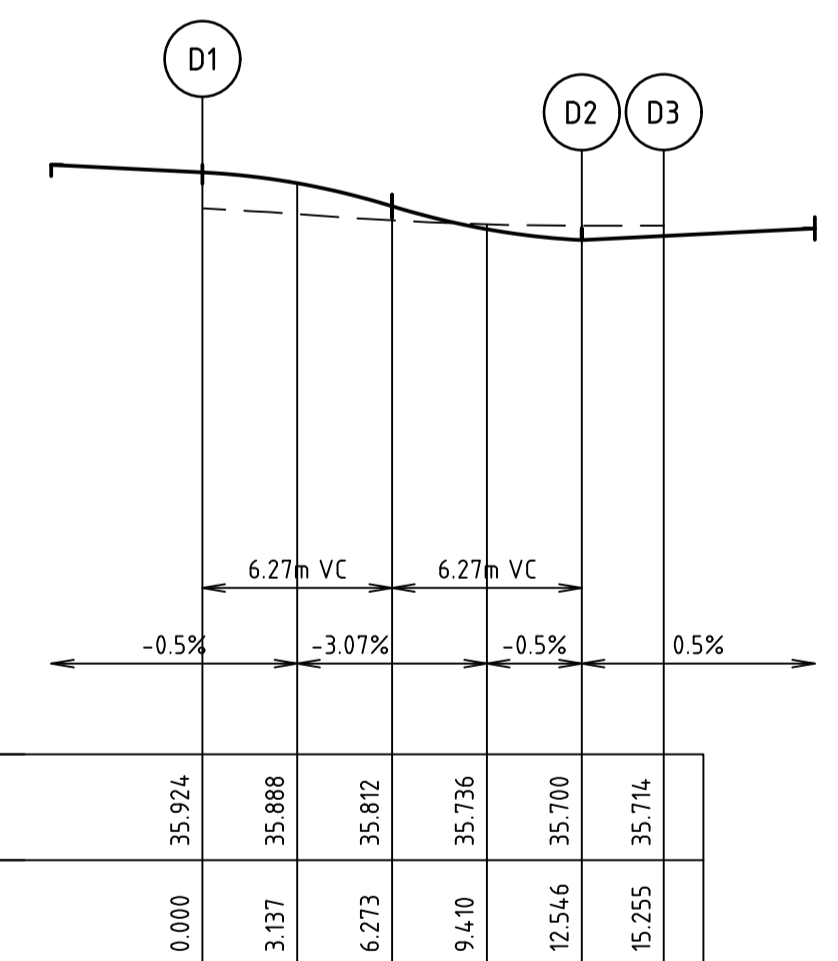


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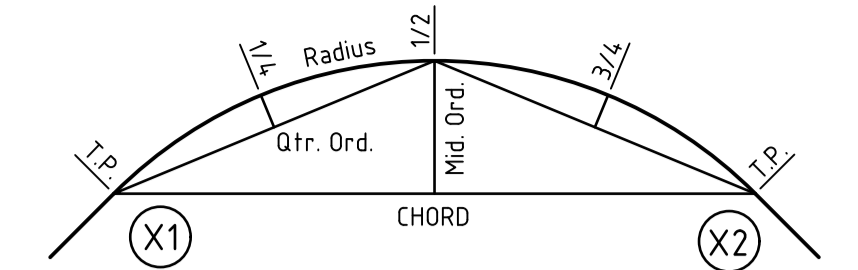
ALIGNMENT D

POINT NO	EASTING	NORTHING	RL
D1	359189.601	5785392.028	35.924
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1/2	359191.262	5785386.122	35.812
3/4	359193.546	5785383.997	35.736
D2	359196.437	5785382.827	35.700
D3	359199.091	5785382.282	35.714

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
D1-D2	8.600	12.546	11.463	2.188	-0.566



ALIGNMENT D



KERB RETURN SETOUT DETAIL

CONSENT FOR CONSTRUCTION

CARDINIA SHIRE COUNCIL

Ref No.: S23-073 - T220246

Sheet: 11 of 17

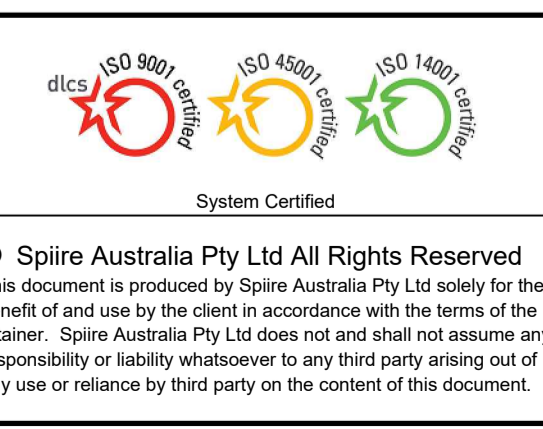
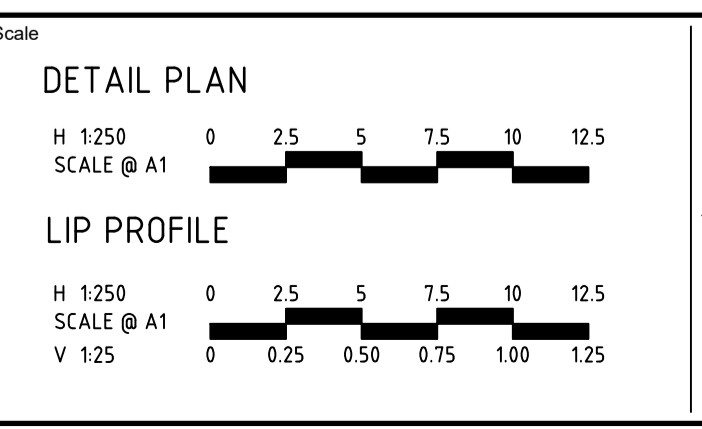
Approved by: Vithu Vijeyakumar

CARDINIA SHIRE COUNCIL

Date: Friday, 12 April 2024

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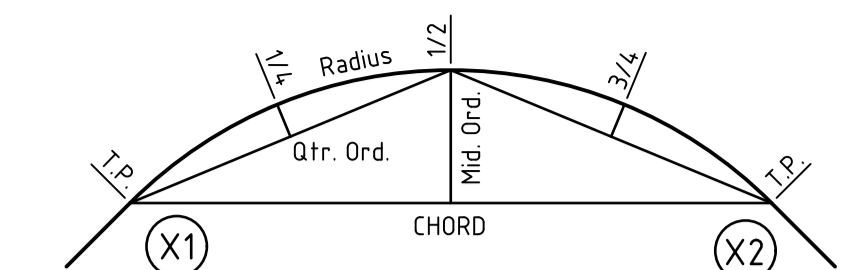
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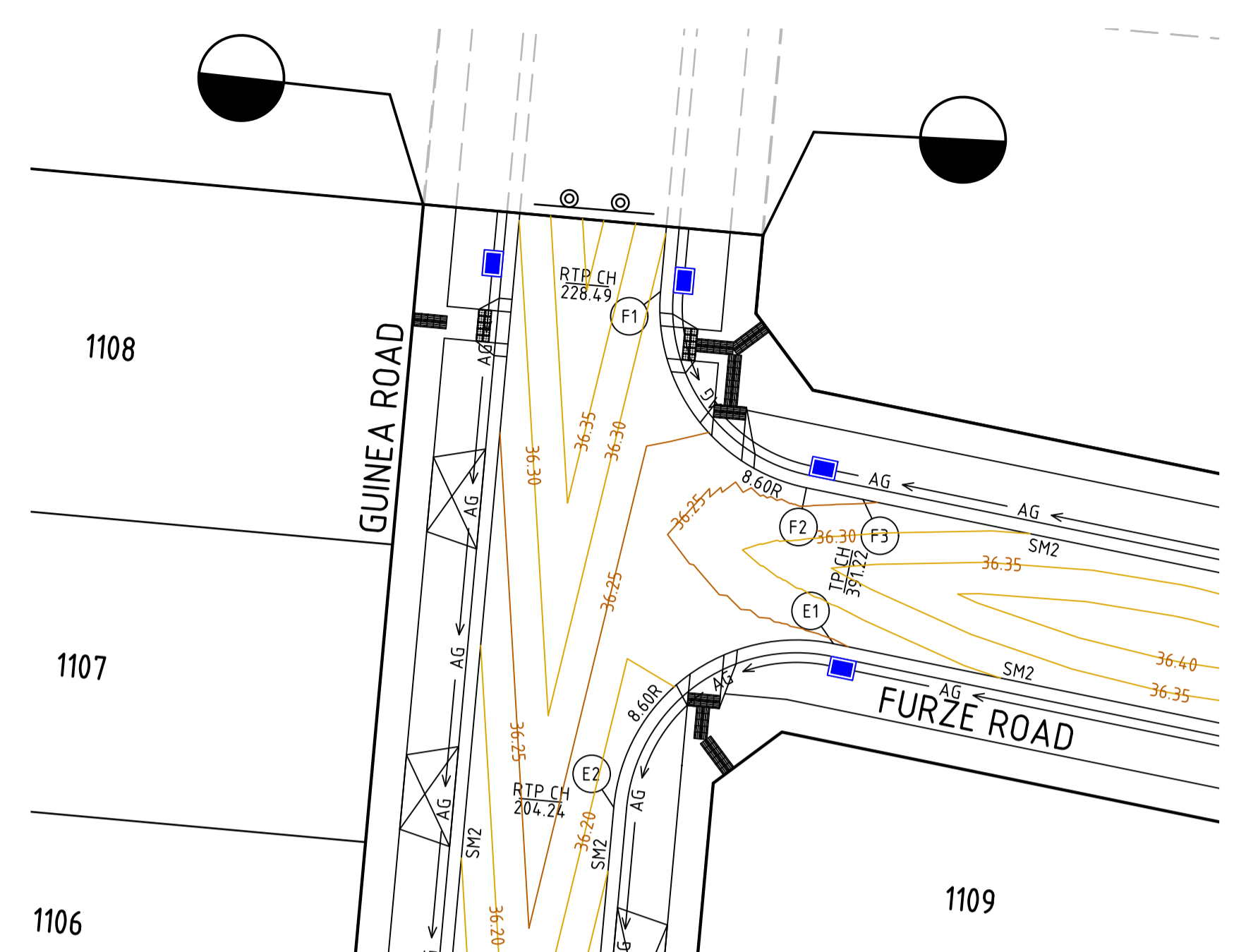
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Designed: D.PRATT
Authorised: B.WAREHAM
Checked: B.IBBS - PE0007167
Date: JANUARY 2024

OFFICER CENTRAL
STAGE 11
ROAD AND DRAINAGE
INTERSECTION DETAILS - SHEET 1
CARDINIA SHIRE
YOURLAND PTY LTD
PRELIMINARY Drg No: 310310CR500 Rev: A



KERB RETURN SETOUT DETAIL

CONSENT FOR CONSTRUCTION
 CARDINIA SHIRE COUNCIL
 Ref No.: S23-073 - T220246
 Sheet: 12 of 17
 Approved by: Vithu Vijayakumar
 CARDINIA SHIRE COUNCIL
 Date: Friday, 12 April 2024



INTERSECTION DETAIL PLAN
 INTERSECTION OF FURZE ROAD AND GUINEA ROAD

ALIGNMENT E

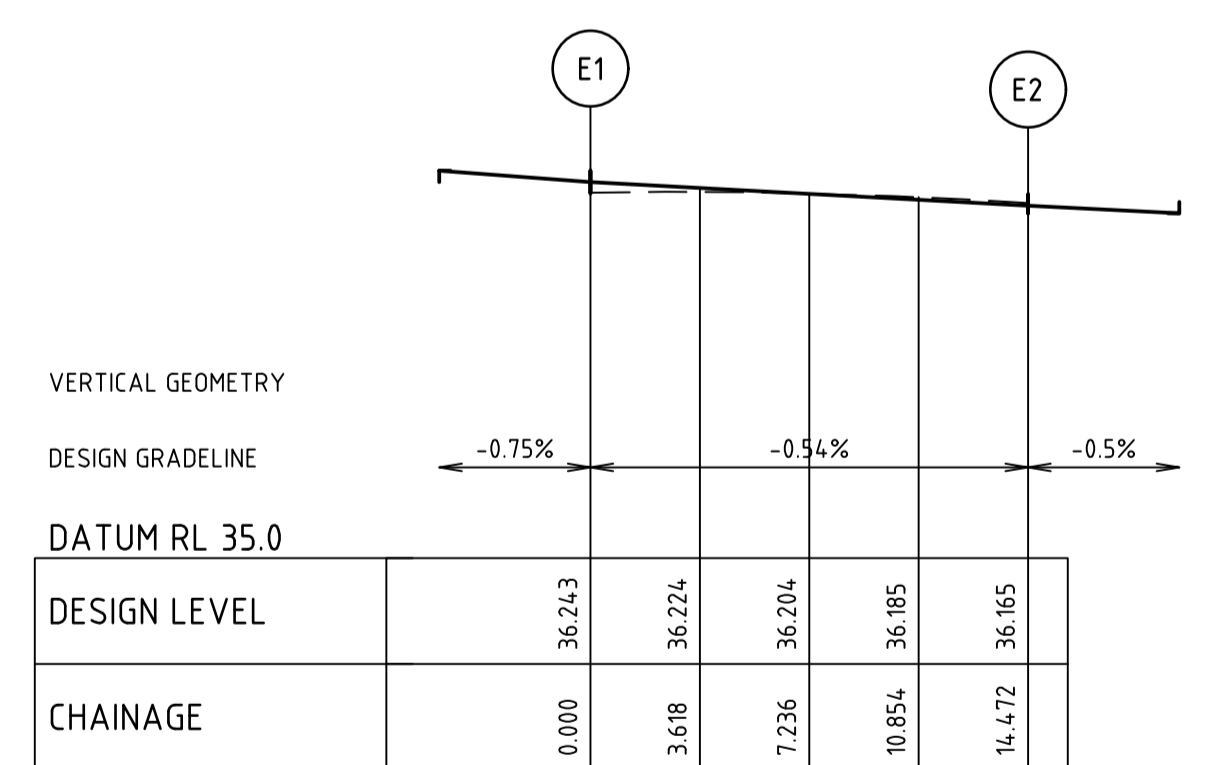
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1/2	359197.391	5785446.159	36.204
3/4	359195.019	5785443.463	36.185
E2	359193.955	5785440.033	36.165

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
E1-E2	8.600	14.472	12.824	2.869	-0.750

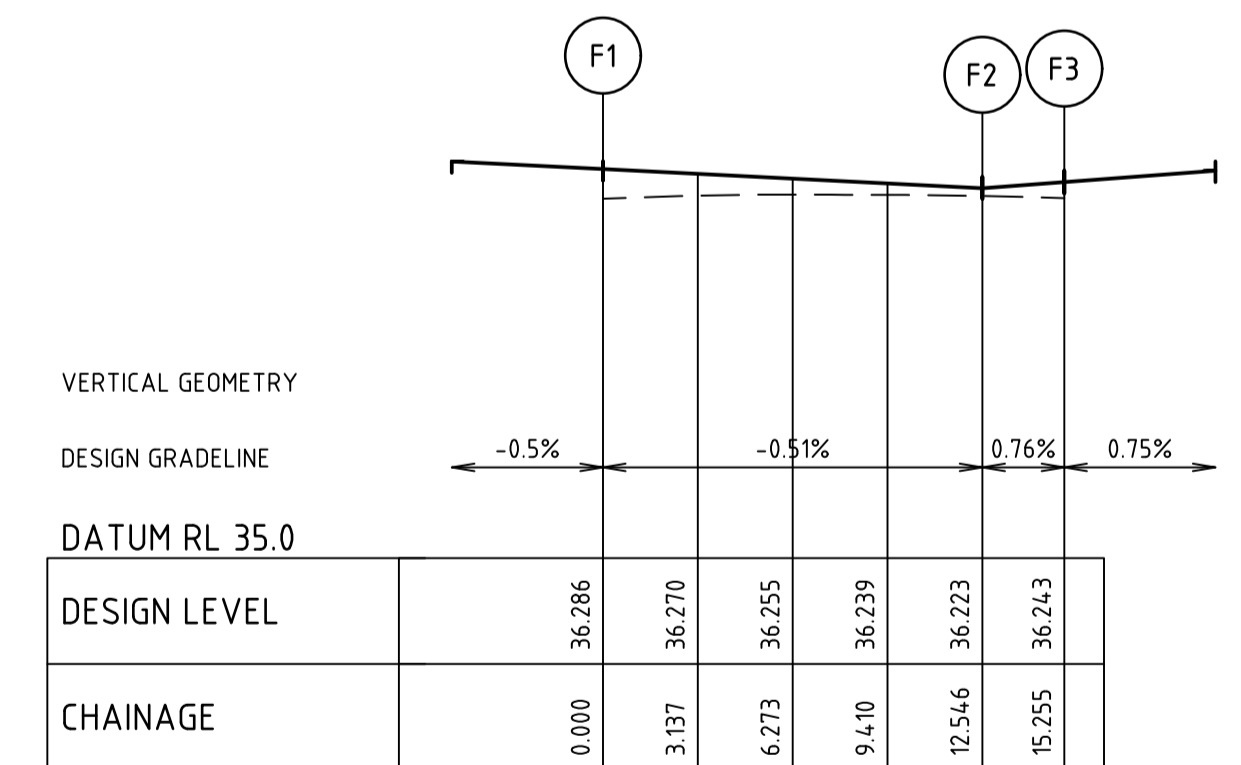
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POINT NO	EASTING	NORTHING	RL
F1	359196.146	5785464.185	36.286
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1/2	359197.808	5785458.280	36.255
3/4	359200.091	5785456.155	36.239
F2	359202.982	5785454.984	36.223
F3	359205.636	5785454.439	36.243

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
F1-F2	8.600	12.546	11.463	2.188	-0.566



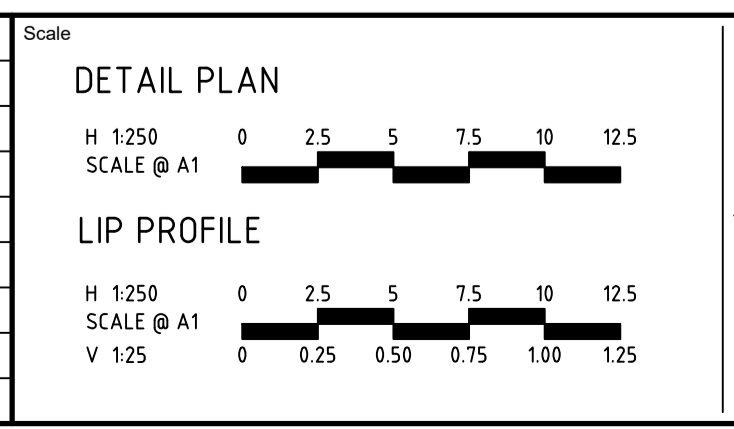
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ALIGNMENT F

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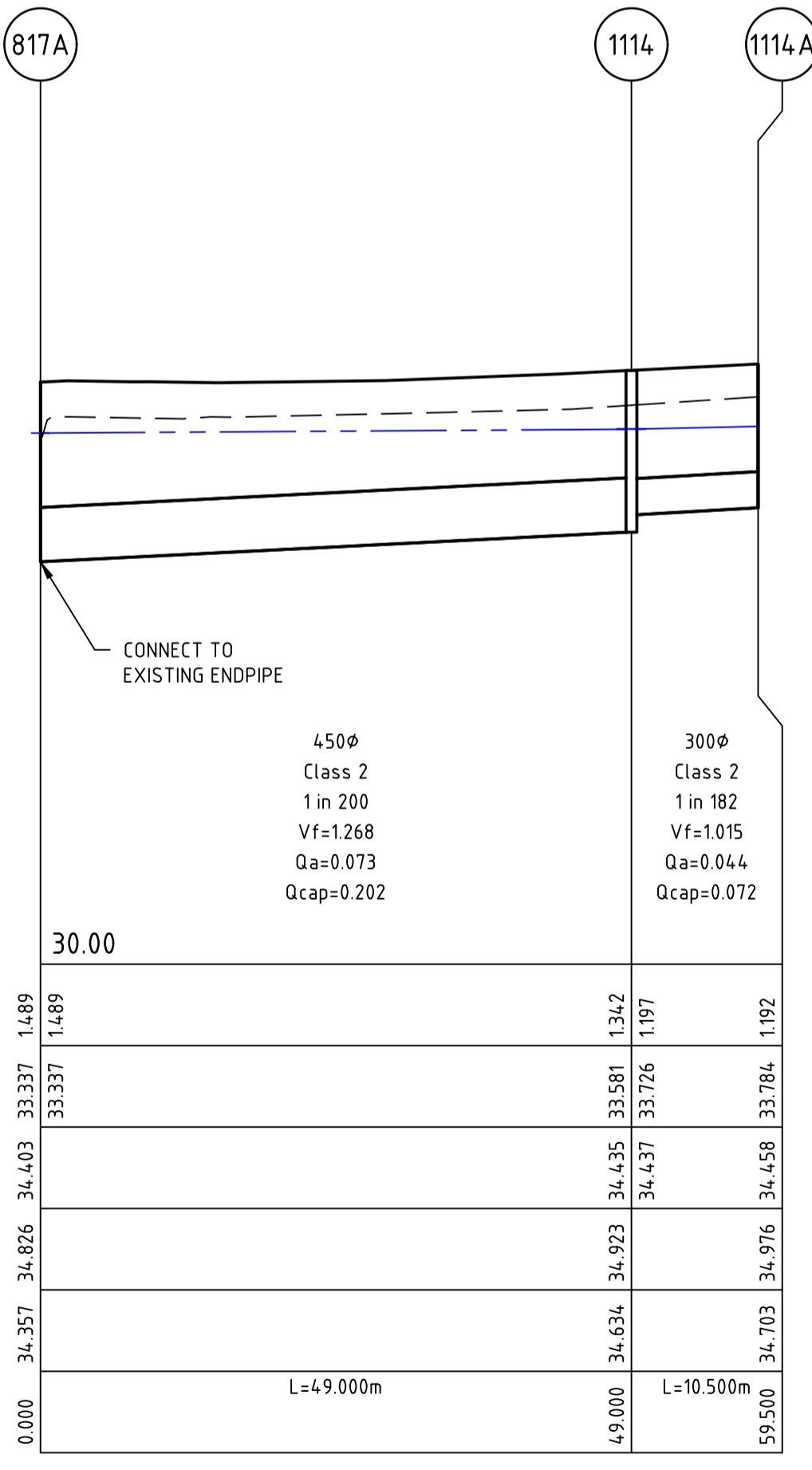
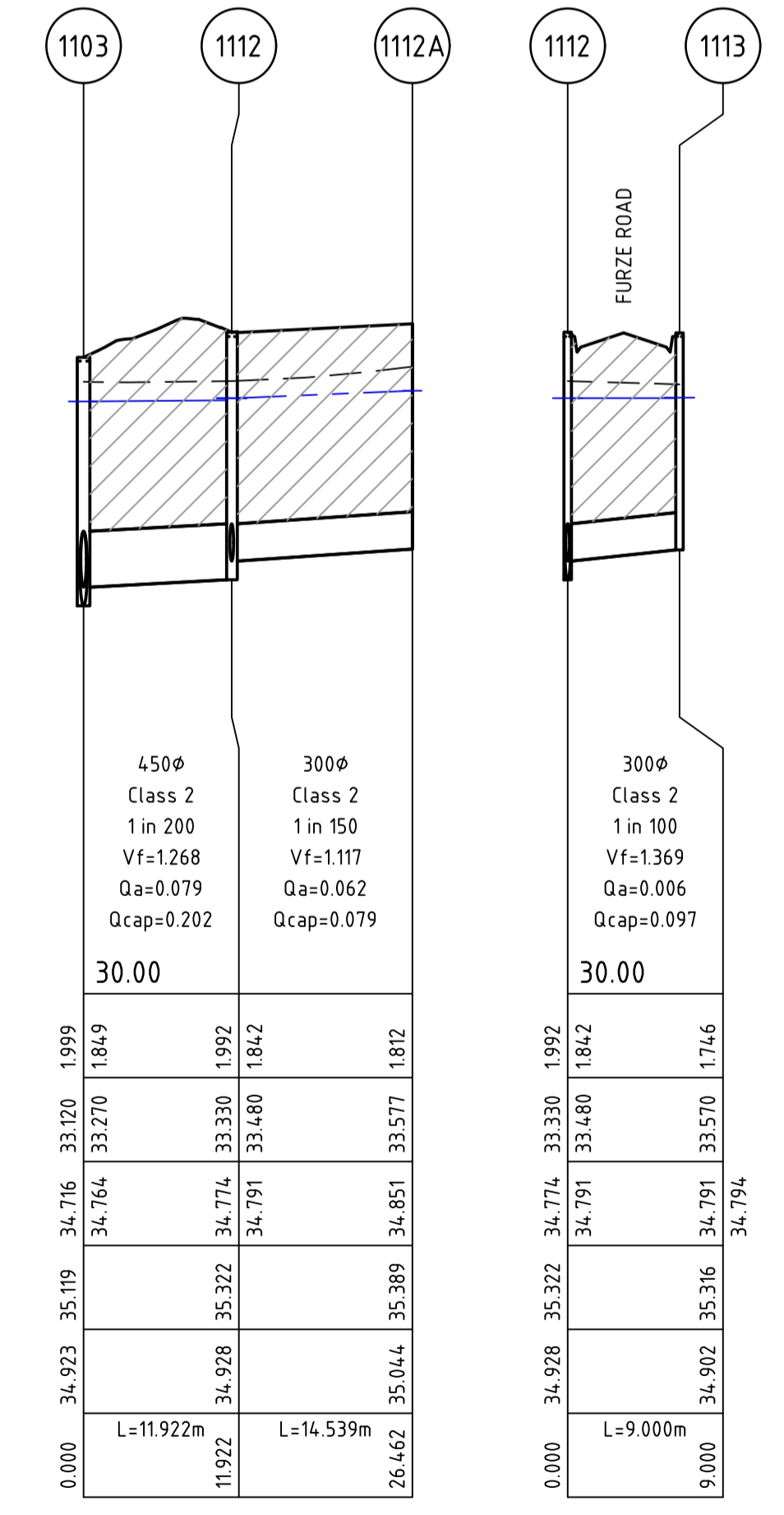
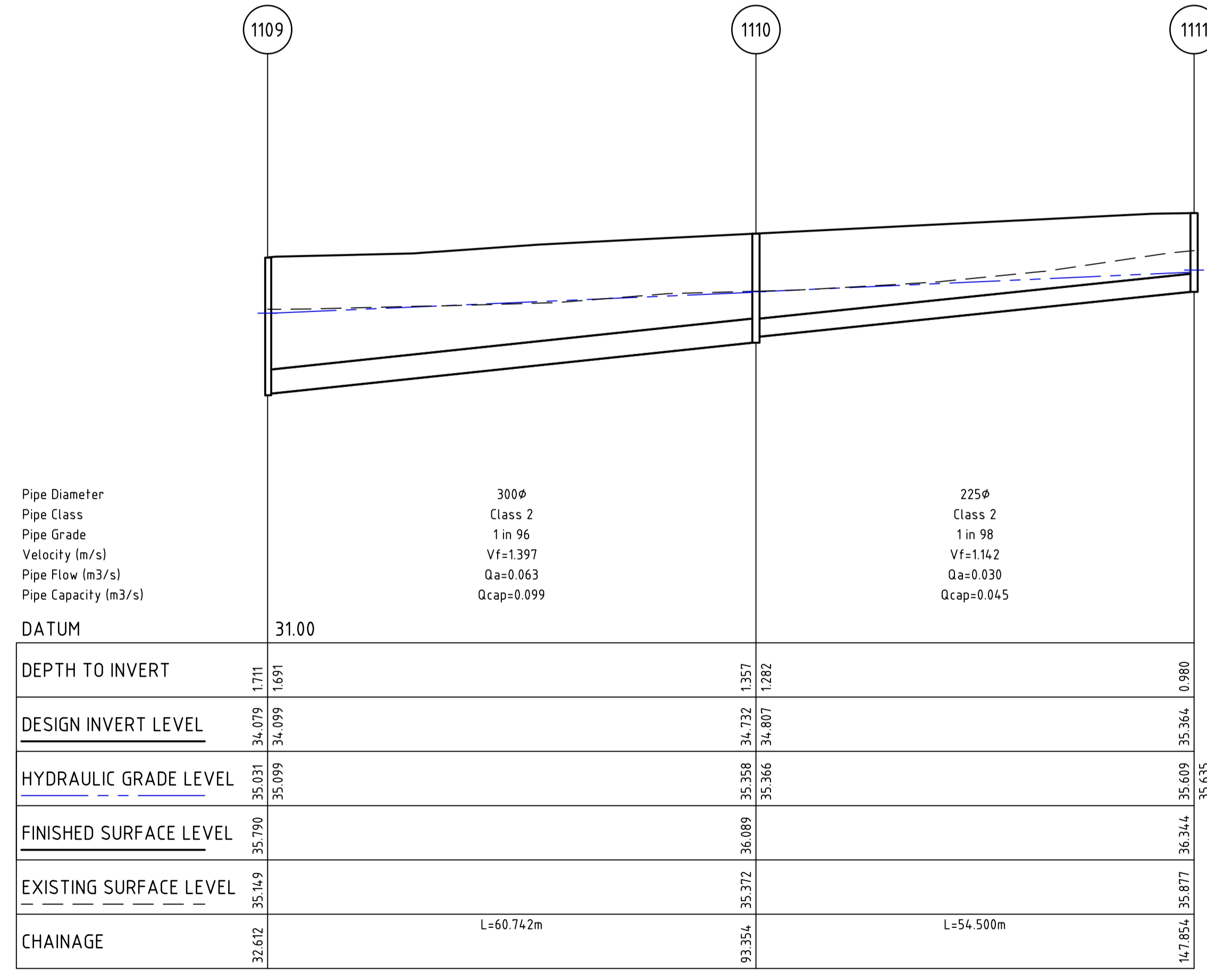
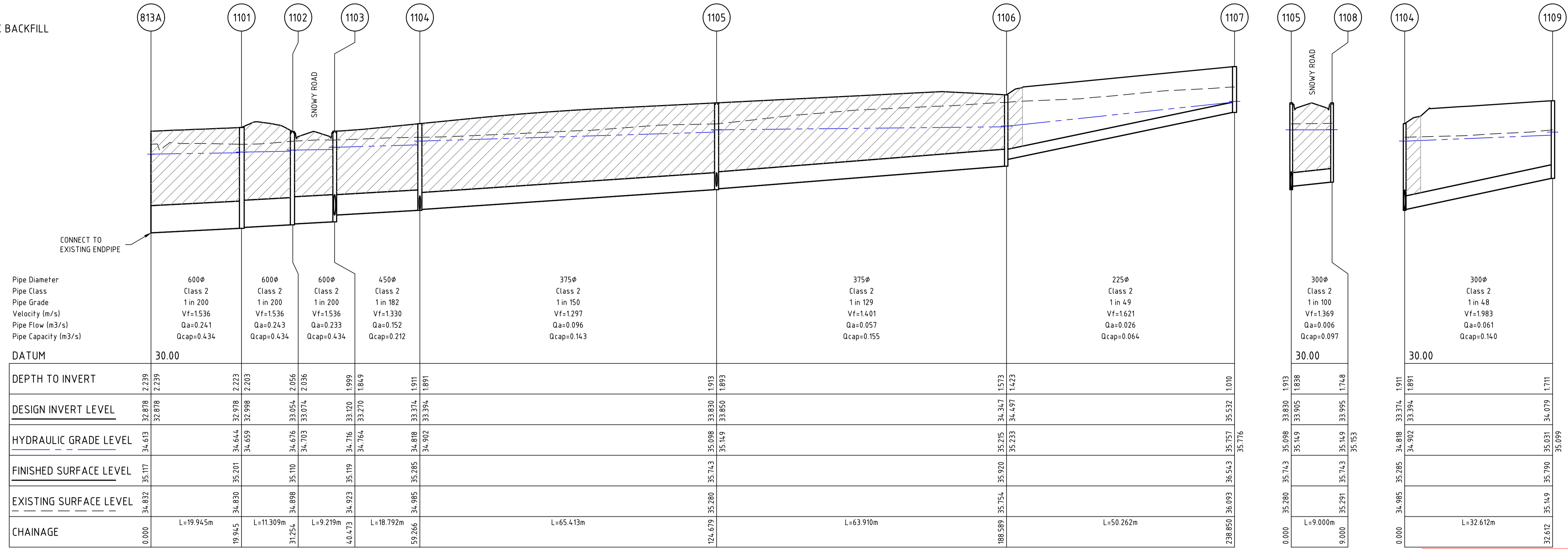
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JANUARY 2024

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STAGE 11
ROAD AND DRAINAGE
INTERSECTION DETAILS - SHEET 2
 CARDINIA SHIRE
 YOURLAND PTY LTD

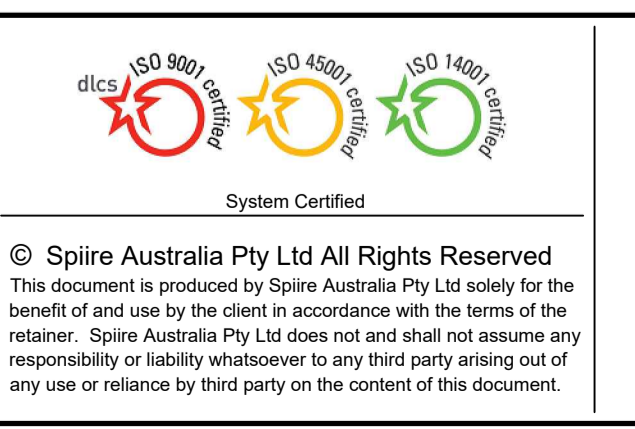
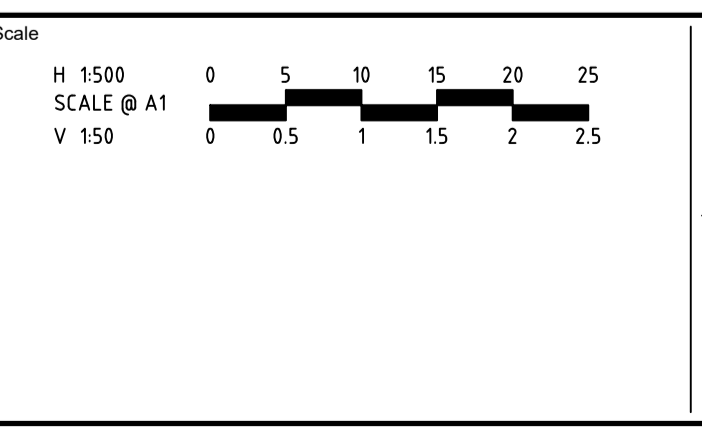
PRELIMINARY Dwg No 310310CR501 Rev A



CONSENT FOR CONSTRUCTION
 CARDINIA SHIRE COUNCIL
 Ref No.: S23-073 - T220246
 Sheet: 13 of 17
 Approved by: Vithu Vijayakumar
 CARDINIA SHIRE COUNCIL
 Date: Friday, 12 April 2024

file name: 310310CR600.dwg, layout name: CR600, plotted by: Dilipkumar, Plot Date: 06/02/2024, 4:42 PM, Sheet 13 of 17 Sheets

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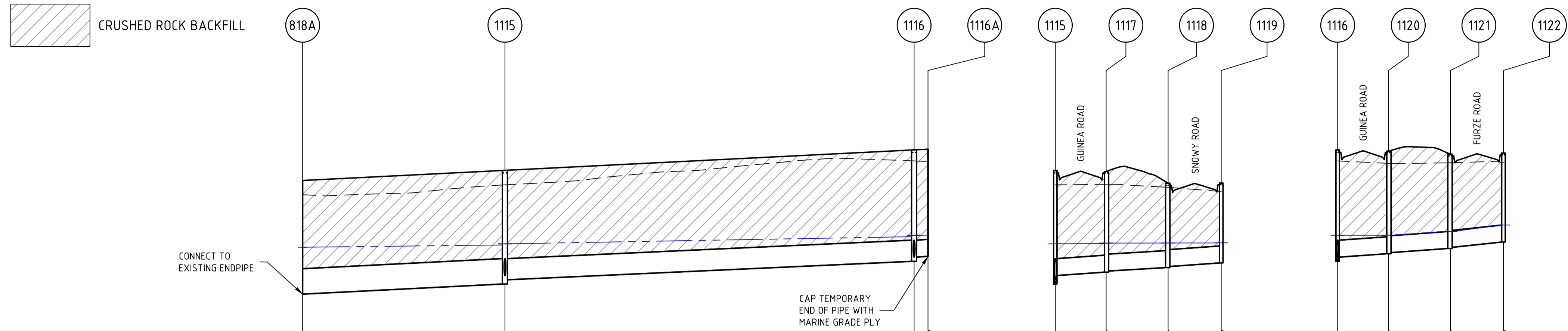


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Designed: D.PRATT
 Authorised: B.WAREHAM
 Checked: B.IBBS - PE0007167
 Date: JANUARY 2024

OFFICER CENTRAL
STAGE 11
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 1
 CARDINIA SHIRE
 YOURLAND PTY LTD
PRELIMINARY Drg No: 310310CR600 Rev: **A**

CONSENT FOR CONSTRUCTION
CARDINIA SHIRE COUNCIL
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 CARDINIA SHIRE COUNCIL
 Date: Friday, 12 April 2024



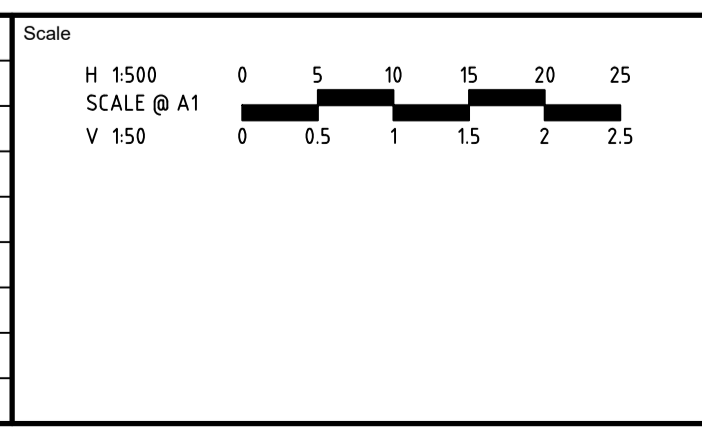
	818A	1115	1116	1116A
Pipe Diameter	450φ		375φ	300φ
Pipe Class	Class 2		Class 2	Class 2
Pipe Grade	1 in 200		1 in 222	1 in 167
Velocity (m/s)	Vf=1.268		Vf=1.065	Vf=1.060
Pipe Flow (m ³ /s)	Qa=0.096		Qa=0.073	Qa=0.026
Pipe Capacity (m ³ /s)	Qcap=0.202		Qcap=0.118	Qcap=0.075
DATUM	31.00			
DEPTH TO INVERT	2.012	2.012	1.973	1.898
DESIGN INVERT LEVEL	33.866	34.045	34.446	34.521
HYDRAULIC GRADE LEVEL	34.696	34.736	34.883	34.908
FINISHED SURFACE LEVEL	35.878	36.057	36.419	36.432
EXISTING SURFACE LEVEL	35.626	35.800	36.224	36.219
CHAINAGE	0.000	L=35.821m	L=72.453m	L=2.457m

	1115	1117	1118	1119
Pipe Diameter	300φ	300φ	300φ	300φ
Pipe Class	Class 2	Class 2	Class 2	Class 2
Pipe Grade	1 in 150	1 in 182	1 in 150	1 in 100
Velocity (m/s)	Vf=1.117	Vf=1.015	Vf=1.118	Vf=1.369
Pipe Flow (m ³ /s)	Qa=0.019	Qa=0.012	Qa=0.006	Qa=0.002
Pipe Capacity (m ³ /s)	Qcap=0.079	Qcap=0.072	Qcap=0.079	Qcap=0.097
DATUM	31.00			
DEPTH TO INVERT	2.012	1.862	1.782	1.714
DESIGN INVERT LEVEL	34.195	34.255	34.336	34.418
HYDRAULIC GRADE LEVEL	34.757	34.760	34.771	34.772
FINISHED SURFACE LEVEL	36.057	36.037	35.831	35.832
EXISTING SURFACE LEVEL	35.800	35.812	35.756	35.684
CHAINAGE	0.000	L=9.000m	L=10.979m	L=9.400m

	1116	1120	1121	1122
Pipe Diameter	300φ	300φ	300φ	300φ
Pipe Class	Class 2	Class 2	Class 2	Class 2
Pipe Grade	1 in 150	1 in 150	1 in 100	1 in 100
Velocity (m/s)	Vf=1.117	Vf=1.118	Vf=1.369	Vf=1.369
Pipe Flow (m ³ /s)	Qa=0.008	Qa=0.006	Qa=0.002	Qa=0.002
Pipe Capacity (m ³ /s)	Qcap=0.079	Qcap=0.079	Qcap=0.097	Qcap=0.097
DATUM	31.00			
DEPTH TO INVERT	1.973	1.816	1.796	1.650
DESIGN INVERT LEVEL	34.521	34.581	34.674	34.694
HYDRAULIC GRADE LEVEL	34.908	34.910	34.974	34.975
FINISHED SURFACE LEVEL	36.419	36.397	36.345	36.364
EXISTING SURFACE LEVEL	36.224	36.181	36.191	36.200
CHAINAGE	0.000	L=9.000m	L=10.958m	L=9.404m

file: s:\310310CR601.dwg, layout: s:\310310CR601.dwg, plotted by: Dillon Pratt, plot date: 06/02/2024, 4:42 PM, Sheet 14 of 17 Sheets

Rev	Amendments	Approved	Date
A	PRELIMINARY ISSUE	B.W	29/01/24



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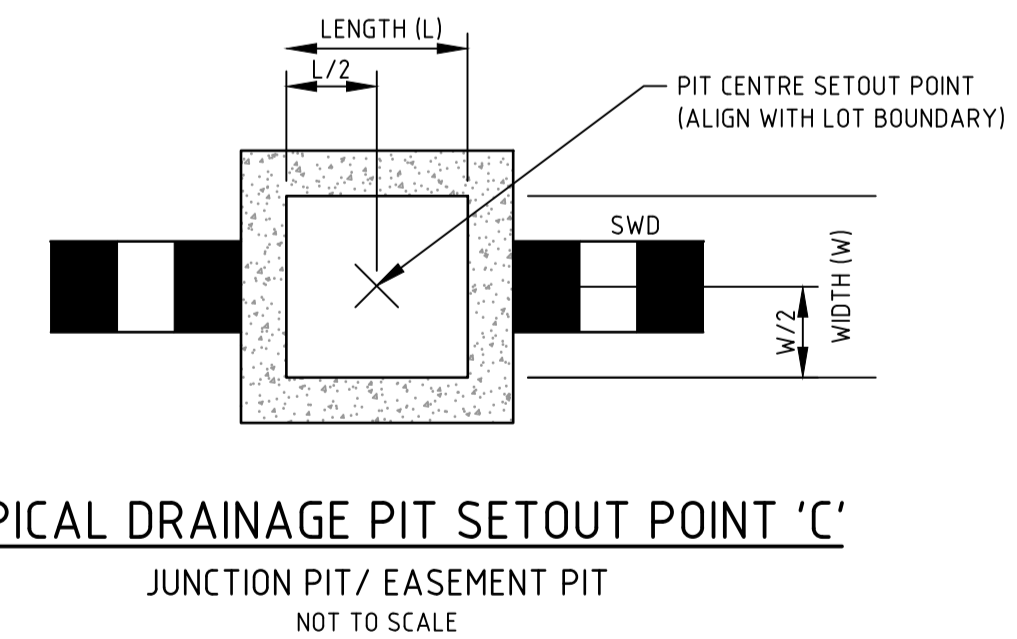
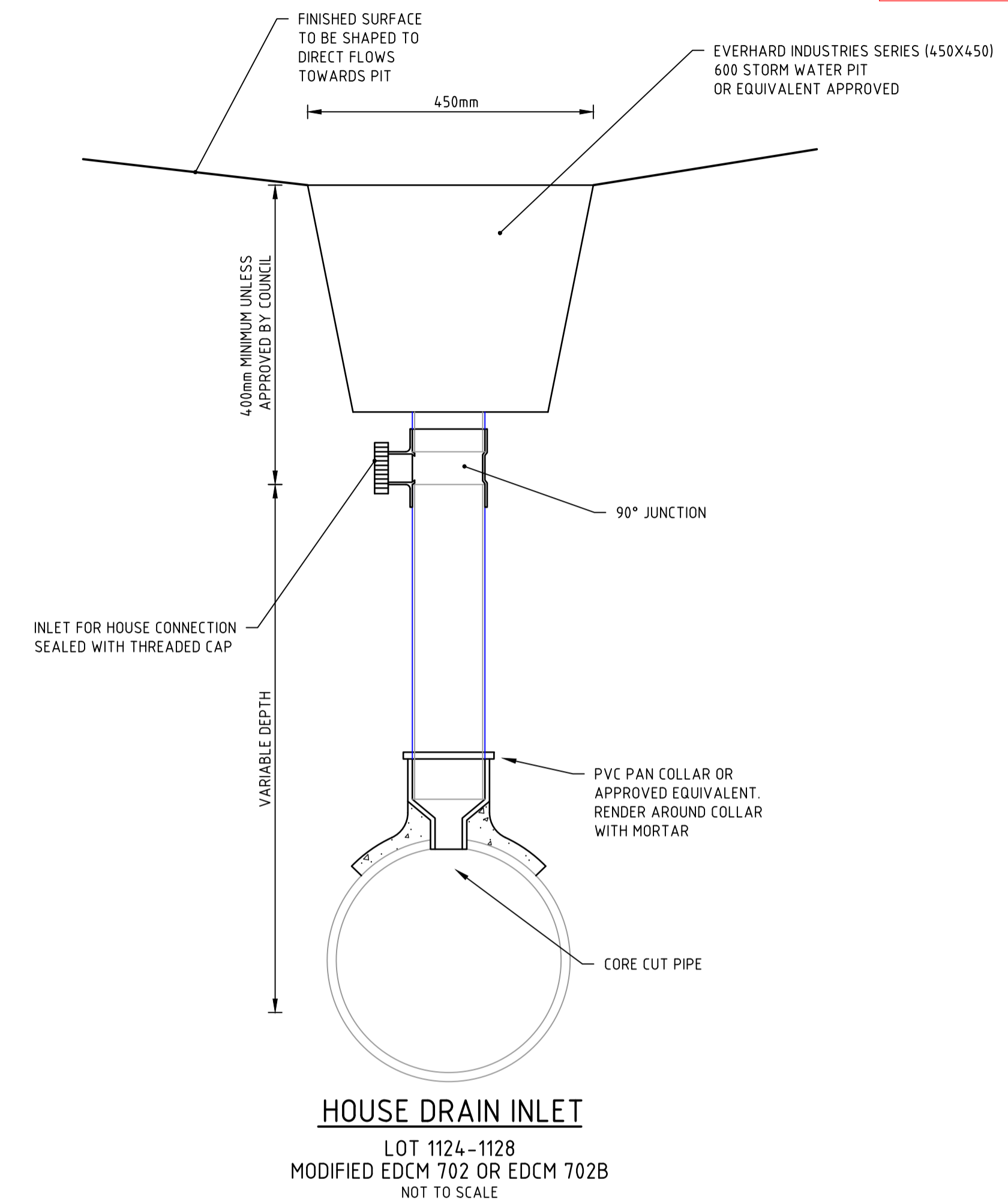
L6 414 LA TROBE STREET PO BOX 16084 MELBOURNE
 VICTORIA 8007 AUSTRALIA T 61 3 9993 7888
 spiire.com.au ABN 55 050 029 635

Designed
 D.PRATT
 Authorised
 B.WAREHAM
 Checked
 B.IBBS - PE0007167
 Date
 JANUARY 2024

OFFICER CENTRAL
STAGE 11
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 2
 CARDINIA SHIRE
 YOURLAND PTY LTD
PRELIMINARY Drg No 310310CR601 Rev **A**

DRAINAGE PIT SCHEDULE

NAME	PIT TYPE	INTERNAL		INLET		OUTLET		PIT		REMARKS
		WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
813A	ENDPIPE			600	32.878			35.117	2.239	CONNECT TO EXISTING PIPE
1101	JUNCTION PIT	900	900	600	32.998	600	32.978	35.201	2.223	REFER TO EDCM 605
1102	SIDE ENTRY PIT	750	900	600	33.074	600	33.054	35.110	2.056	REFER TO EDCM 603
1103	SIDE ENTRY PIT	750	900	450	33.270	600	33.120	35.119	1.999	REFER TO EDCM 603
1104	JUNCTION PIT	600	900	375	33.394	450	33.374	35.285	1.911	REFER TO EDCM 605
1105	SIDE ENTRY PIT	600	900	375	33.850	375	33.830	35.743	1.913	REFER TO EDCM 603
1106	JUNCTION PIT	600	900	225	34.497	375	34.347	35.920	1.573	REFER TO EDCM 605
1107	JUNCTION PIT	600	900			225	35.532	36.543	1.010	REFER TO EDCM 605
1108	SIDE ENTRY PIT	600	900			300	33.995	35.743	1.748	REFER TO EDCM 603
1109	JUNCTION PIT	600	900	300	34.099	300	34.079	35.790	1.711	REFER TO EDCM 605
1110	JUNCTION PIT	600	900	225	34.807	300	34.732	36.089	1.357	REFER TO EDCM 605
1111	JUNCTION PIT	600	900			225	35.364	36.344	0.980	REFER TO EDCM 605
1112	SIDE ENTRY PIT	600	900	300	33.480	450	33.330	35.322	1.992	REFER TO EDCM 603
1112A	ENDPIPE			300	33.480					
1113	SIDE ENTRY PIT	600	900			300	33.570	35.316	1.746	REFER TO EDCM 603
817A	ENDPIPE			450	33.337			34.826	1.489	CONNECT TO EXISTING PIPE
1114	JUNCTION PIT	600	900	300	33.726	450	33.581	34.923	1.342	REFER TO EDCM 605
1114A	ENDPIPE			300	33.784	300	33.784	34.976	1.192	ENDPIPE AT STAGE BOUNDARY
818A	ENDPIPE			450	33.866			35.878	2.012	CONNECT TO EXISTING PIPE
1115	SIDE ENTRY PIT	600	900	375	34.120	450	34.045	36.057	2.012	REFER TO EDCM 603
1116	SIDE ENTRY PIT	600	900	300	34.195					
1116	SIDE ENTRY PIT	600	900	300	34.521	375	34.446	36.419	1.973	REFER TO EDCM 603
1116A	ENDPIPE			300	34.521					
1116A	ENDPIPE			300	34.536	300	34.536	36.432	1.896	ENDPIPE AT STAGE BOUNDARY
1117	SIDE ENTRY PIT	600	900	300	34.275	300	34.255	36.037	1.782	REFER TO EDCM 603
1118	SIDE ENTRY PIT	600	900	300	34.356	300	34.336	35.831	1.495	REFER TO EDCM 603
1119	SIDE ENTRY PIT	600	900			300	34.418	35.832	1.414	REFER TO EDCM 603
1120	SIDE ENTRY PIT	600	900	300	34.601	300	34.581	36.397	1.816	REFER TO EDCM 603
1121	SIDE ENTRY PIT	600	900	300	34.694	300	34.674	36.345	1.670	REFER TO EDCM 603
1122	SIDE ENTRY PIT	600	900			300	34.788	36.364	1.576	REFER TO EDCM 603



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Rev	Description	By	Date
A	PRELIMINARY ISSUE	B.W	29/01/24
	Amendments	Approved	Date

Scale

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Designed: D.PRATT
 Authorised: B.WAREHAM
 Checked: B.IBBS - PE0007167
 Date: JANUARY 2024

OFFICER CENTRAL
STAGE 11
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 3
 CARDINIA SHIRE
 YOURLAND PTY LTD
PRELIMINARY Drg No: 310310CR602 Rev: A

DESIGN PAVEMENT PROFILE

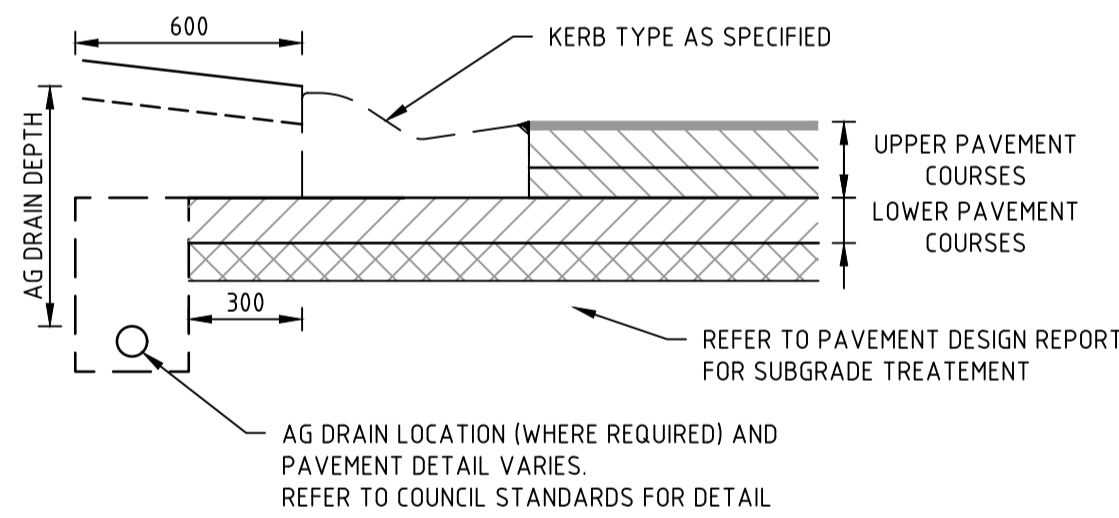
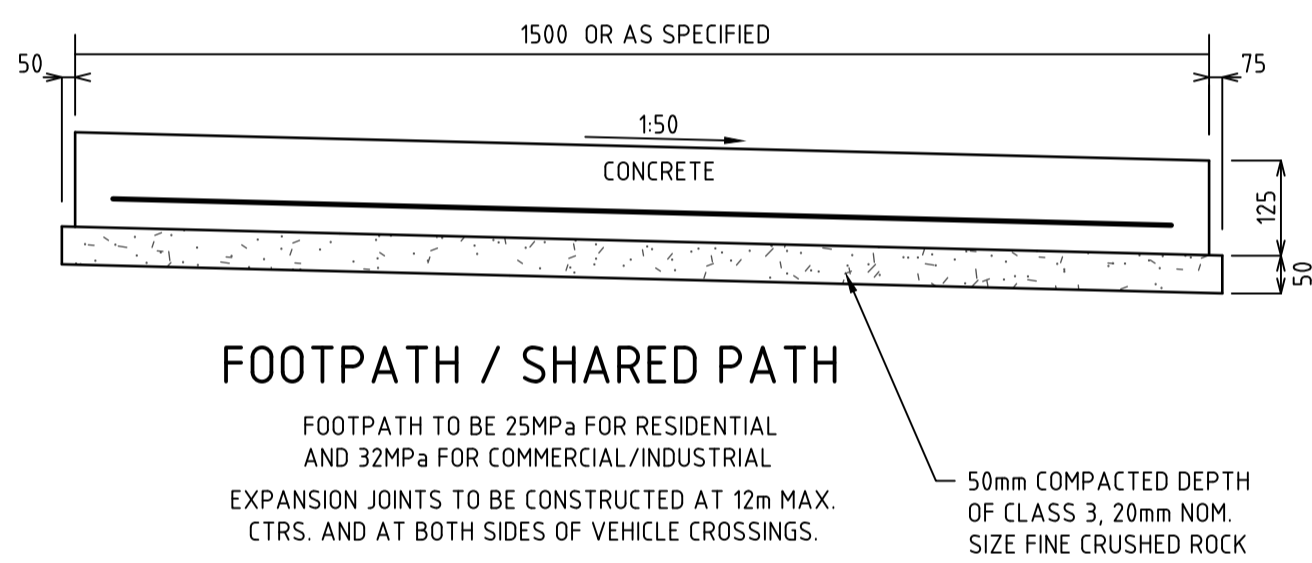
PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
ASPHALT WEARING COURSE	VICROADS SIZE 10 TYPE N CLASS C320 BINDER	30
ASPHALT BASE COURSE	VICROADS SIZE 14 TYPE N CLASS C320 BINDER	30
BITUMINOUS PRIME	NOMINAL	NOMINAL
BASE	VICROADS 20mm CLASS 2 CRUSHED ROCK OR EQUIVALENT	130
UPPER SUBBASE	VICROADS 20mm CLASS 3 CRUSHED ROCK OR BETTER, 20mm CLASS CC3 CRUSHED CONCRETE OR BETTER	100
LOWER SUBBASE	VICROADS 20mm CLASS 4 CRUSHED ROCK OR BETTER, 20mm CLASS CC4 CRUSHED CONCRETE OR BETTER	250
SUBGRADE	SILTY CLAY WITH DESIGN CBR OF 2.5%	-
TOTAL PAVEMENT DEPTH		540

* REFER PAVEMENT PLAN FOR LOCATION OF PAVEMENT TYPES

ROAD NAME	TYPE
GUINEA ROAD	TYPE B
SNOWY ROAD	TYPE B
FURZE ROAD	TYPE B

GENERAL NOTES:

- ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE; OR VIC ROADS STANDARDS FOR NON RESIDENTIAL STREETS.
- ALL CONCRETE TO BE MINIMUM 32MPa COMPRESSIVE STRENGTH
- CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY AROUND REINFORCEMENT AND IN CORNERS OF FORMS.
- PRIOR TO CASTING, THE UNBOUND GRANULAR SUBBASE MUST BE DAMP TO ENSURE NO EARLY "DRYING OUT" OF THE CONCRETE.
- CURING OF CONCRETE IS ESSENTIAL - IDEALLY BY MAINTAINING WET HESSIAN OR SEALING WITH PLASTIC SHEETING.
- SAW CUTTING OF CONCRETE SHOULD BE COMMENCED AS SOON AS CONCRETE PERMITS BY EXPERIENCED CONTRACTORS, BUT NO LATER THAN 12 HOURS AFTER POUR.
- ALL DOWELS TO BE GRADE 250R STEEL BARS, 450mm LONG AND PLACED AT 300mm CENTRES. REFER CCAA- "CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS" FOR DOWEL DIAMETERS. DOWELS MUST BE ACCURATELY PLACED TO ENSURE THE JOINT DOES NOT "LOCK". INSERTION OF DOWELS DURING THE PLACING OF CONCRETE IS NOT ACCEPTABLE. DOWELS MUST BE SAWN AND NOT CROPPED.
- ALL JOINTS TO BE APPROPRIATELY SEALED TO RESIST THE INTRUSION OF SAND AND GRAVEL AND TO MINIMISE THE INGRESS OF WATER.



PAVEMENT DETAILS

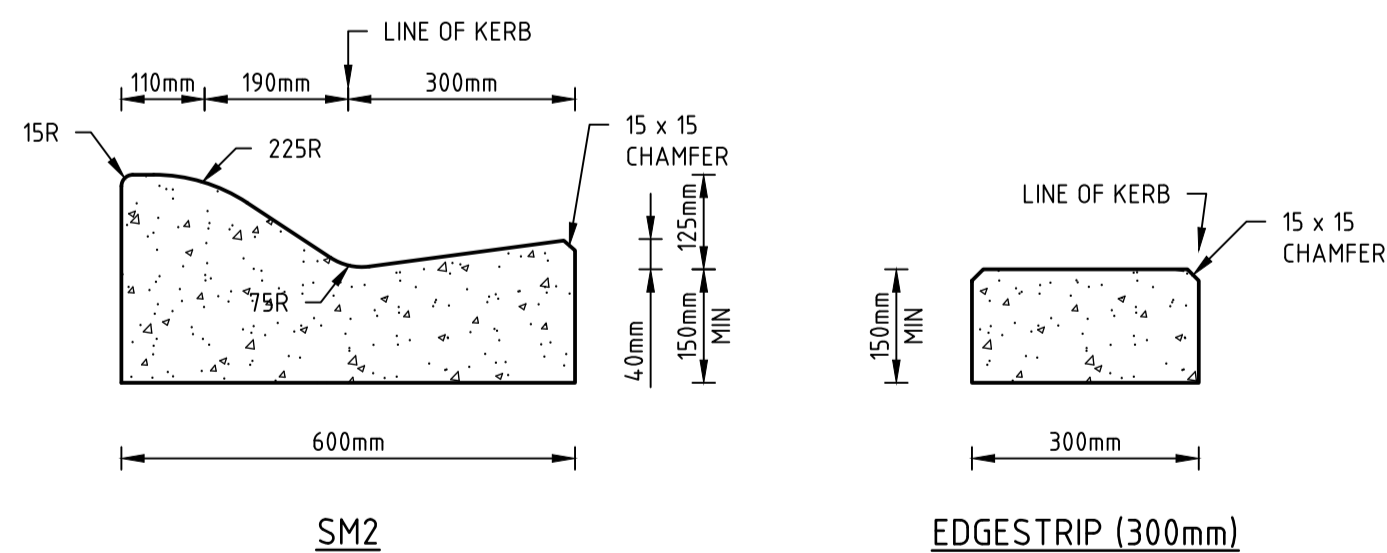
THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY COFFEY P/L WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIIRE IS NOT RESPONSIBLE FOR THE WORK OF COFFEY P/L.

THE DESIGN HAS BEEN EXTRACTED FROM THE OFFICER CENTRAL "LOT 1 RIX ROAD", OFFICER REPORT ON "754-MELGE292541AB" THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.

A COPY OF THE DOCUMENT WILL BE PROVIDED ON REQUEST.

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STANDARD KERB PROFILES

NOTE: ALL KERB & CHANNEL AS PER GAA STD DRAWING EDCM 301



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Designed
 D.PRATT
 Authorised
 B.WAREHAM

Checked
 B.IBBS - PE0007167
 Date
 JANUARY 2024

**OFFICER CENTRAL
 STAGE 11
 ROAD AND DRAINAGE
 PAVEMENT AND TYPICAL DETAILS**
 CARDINIA SHIRE
 YOURLAND PTY LTD

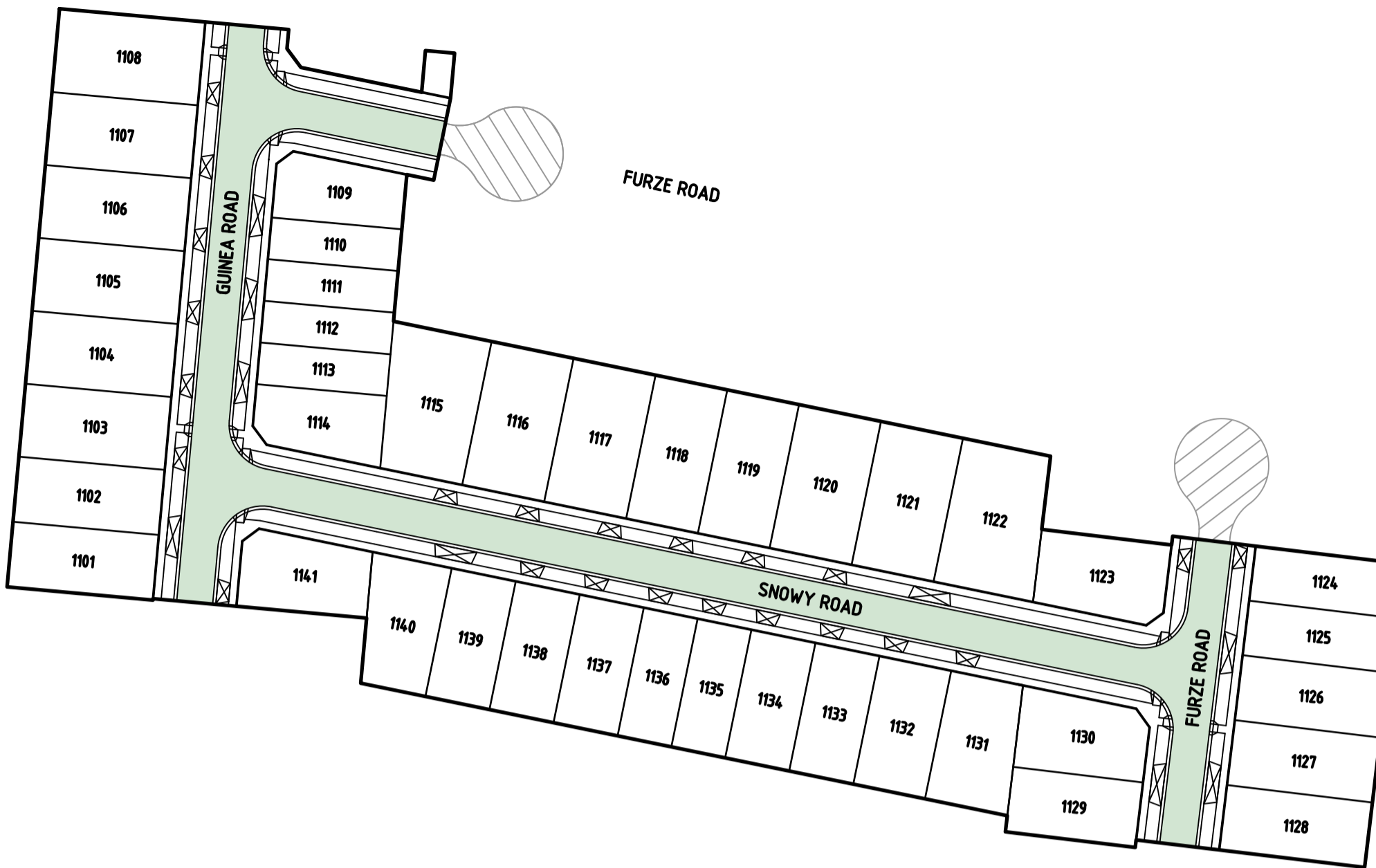
PRELIMINARY Drg No 310310CR700 Rev A



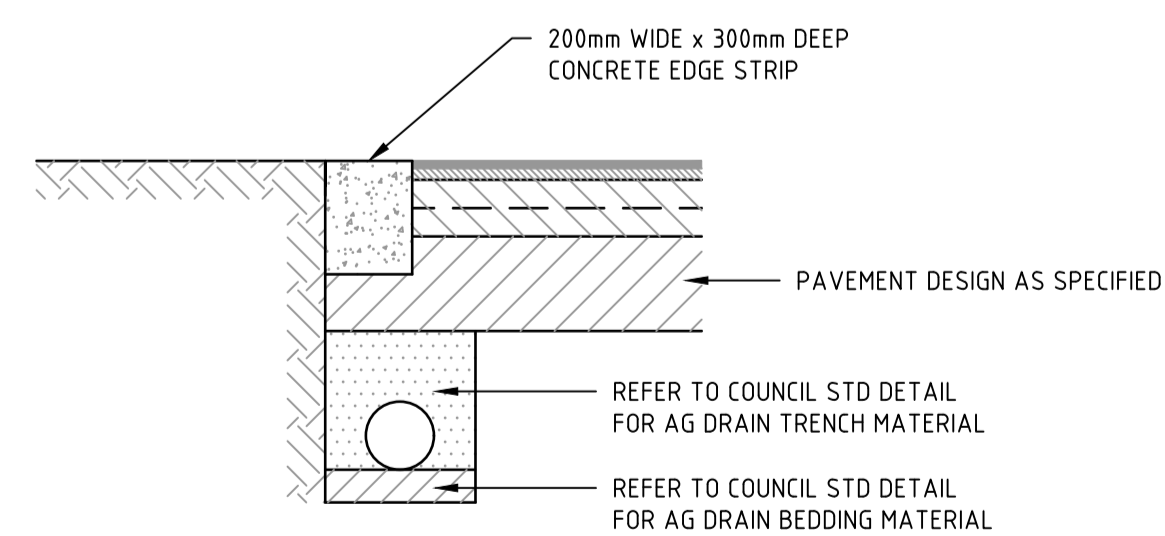
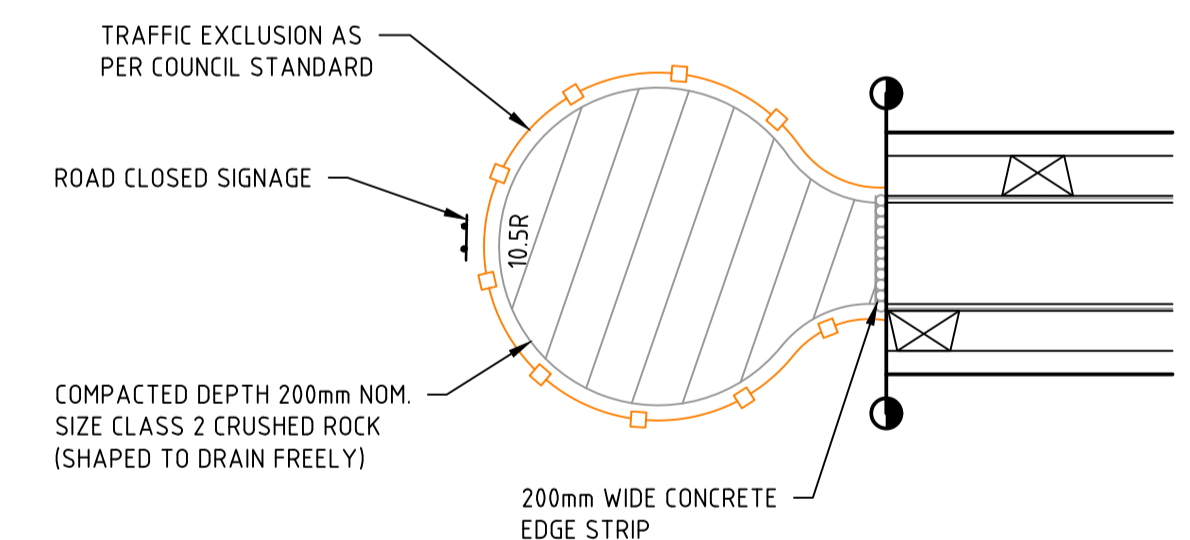
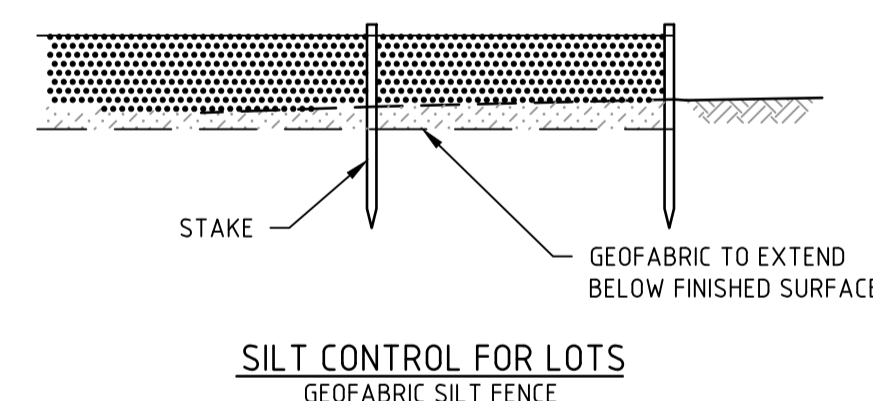
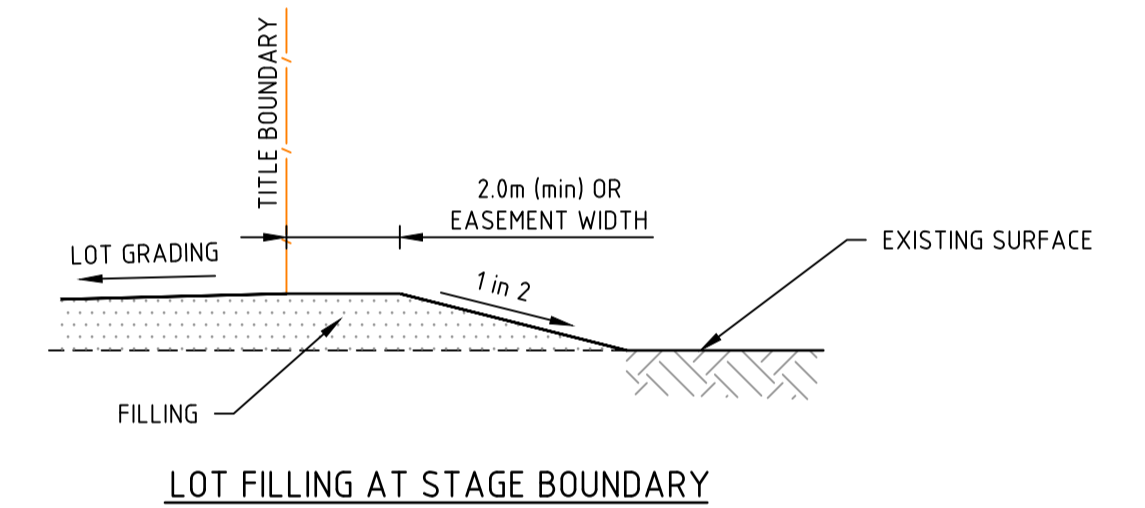
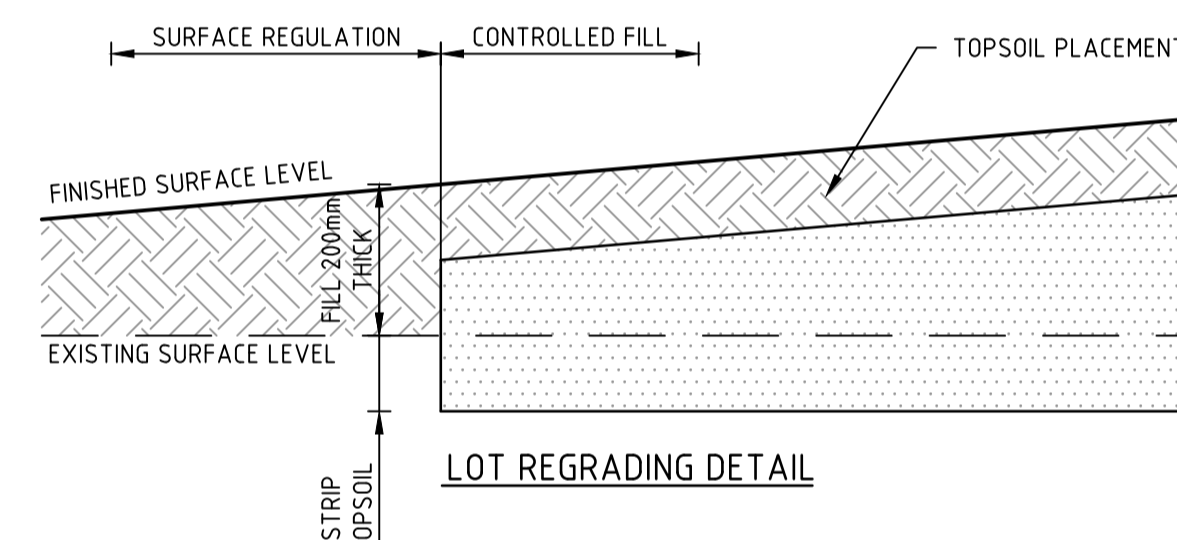
CONSENT FOR CONSTRUCTION

CARDINIA SHIRE COUNCIL

Ref No.: S23-073 - T220246
 Sheet: 16 of 17
 Approved by: Vithu Vijayakumar
 CARDINIA SHIRE COUNCIL
 Date: Friday, 12 April 2024

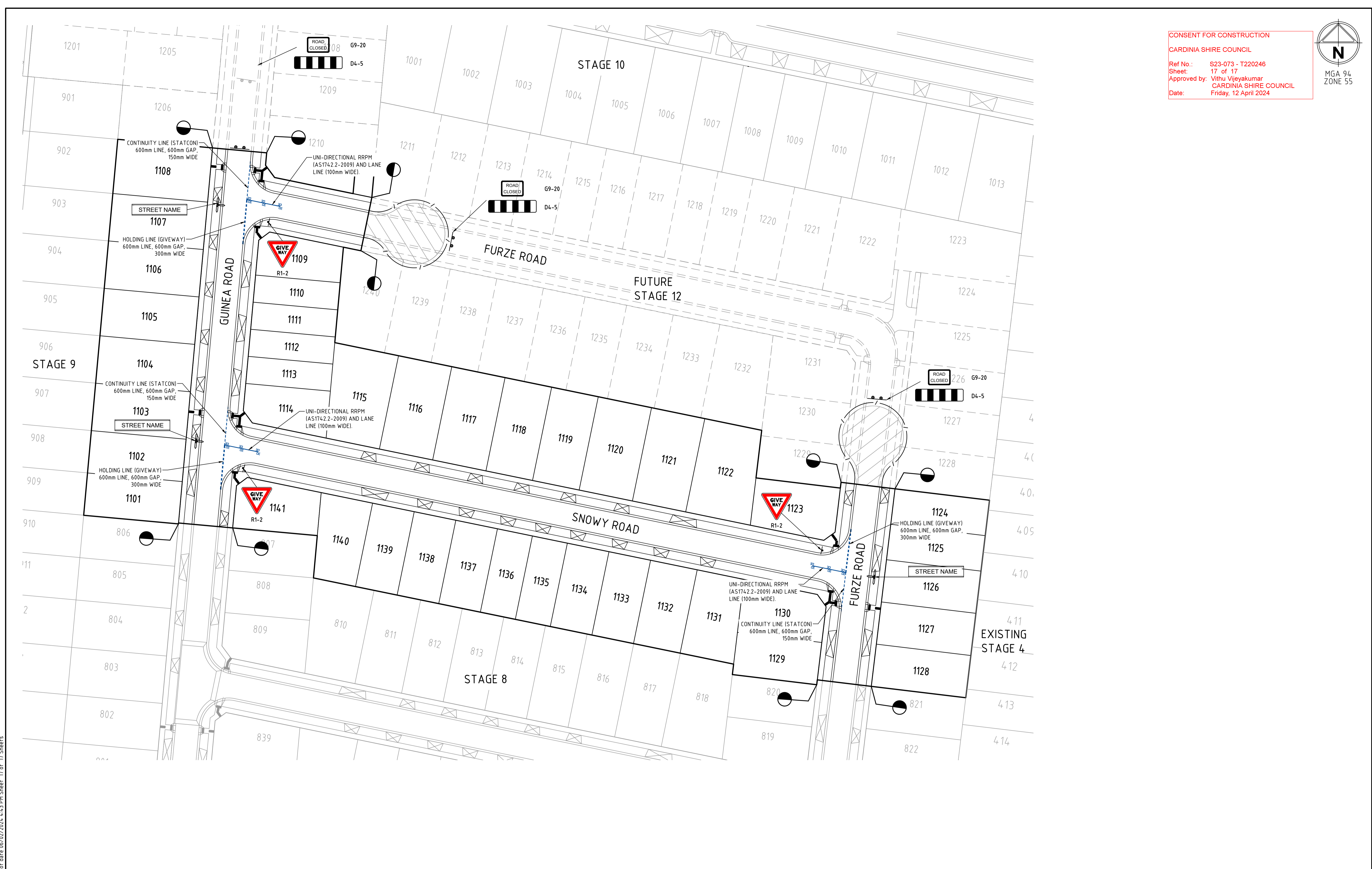
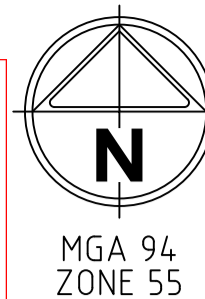


PAVEMENT PLAN



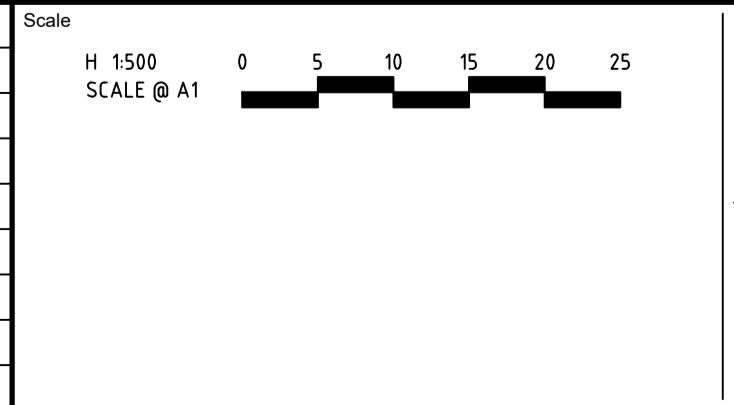
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CONSENT FOR CONSTRUCTION
CARDINIA SHIRE COUNCIL
 Ref No.: S23-073 - T220246
 Sheet: 17 of 17
 Approved by: Vithu Vijeyakumar
 CARDINIA SHIRE COUNCIL
 Date: Friday, 12 April 2024



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 Authorised B.WAREHAM
 Checked B.IBBS - PE0007167
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OFFICER CENTRAL
STAGE 11
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 SIGNAGE AND LINEMARKING
 CARDINIA SHIRE
 YOURLAND PTY LTD

PRELIMINARY Drig No 310310CR800 Rev A