

# MONSANTS ROAD 14 LOT SUBDIVISION 11 & 13 MONSANTS ROAD PTY LTD

APPROVED DRAINAGE PLAN

PLANNING AND ENVIRONMENT ACT 1987  
GREATER BENDIGO PLANNING SCHEME

NO: DS/422/2020

Delegated Officer: Kirstin Garner  
For and on behalf of the City of Greater Bendigo

Date: 19 March 2024Page 1 of 17  
All of this Document

GB 4962

GREATER BENDIGO CITY COUNCIL  
ENGINEERING PLANS

APPROVED BY: Peter Brasier

DATE: 18 March 2024

## GENERAL NOTES:

- A. GENERAL

1. ALL WORK TO BE CARRIED OUT TO CITY OF GREATER BENDIGO SPECIFICATIONS, STANDARD DRAWINGS AND TO THE SATISFACTION OF COUNCILS SENIOR SURVEILLANCE OFFICER OR HIS REPRESENTATIVE.

2. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) ZONE 55.

3. THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.

4. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND ONLY RE-TOPSOILED ON THE DIRECTION OF THE ENGINEER, TO THE FINAL FILL LEVELS SHOWN ON THE DRAWINGS. ALL FILLING IS TO BE:

- APPROVED BY THE PROJECT GEOTECHNICAL CONSULTANT.

- PLACED IN LAYERS NOT EXCEEDING 200MM LOOSE THICKNESS.

- MOISTURE CONDITIONED TO WITHIN 85% TO 115% OF OPTIMUM MOISTURE CONTENT.

- COMPACTED TO A MINIMUM 95% (STANDARD) DRY DENSITY RATIO.

- PLACED UNDER "LEVEL 1" SUPERVISION IN ACCORDANCE WITH AS 3798-1996.

5. EXISTING DEPRESSIONS & DRAINS TRAVERSING THE SITE ARE TO BE CLEANED OUT AND DESLUDGED TO FIRM BASE AND FILLED TO FINISHED SURFACE LEVELS TO THE SPECIFIED COMPACTION STANDARDS.

6. TBM'S TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF TBM'S THEREAFTER.

7. POSITION CONDUITS SO THAT A MINIMUM DISTANCE BETWEEN TAPPING IS 1.0M. CONDUITS TO BE LOCATED MIDWAY BETWEEN FENCE LINE OF LOT, UNLESS OTHERWISE SHOWN.

8. BEFORE COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 1.5 M DEEP, THE REQUIRED NOTICE IS TO BE SENT TO THE VICTORIAN WORKCOVER AUTHORITY IN ACCORDANCE WITH THE MINES ACT, 1958 NO 6320 SECTION 385 AND THE OCCUPATIONAL HEALTH AND SAFETY ACT 1985. THIS NOTIFICATION MUST BE RECEIVED BY THE AUTHORITY AT LEAST 3 DAYS PRIOR TO COMMENCING EXCAVATIONS, AND A COPY OF THE NOTIFICATION MUST BE PROVIDED TO THE SUPERINTENDENT.

9. COUNCIL'S REPRESENTATIVE IS TO BE NOTIFIED IN WRITING SEVEN (7) DAYS PRIOR TO THE COMMENCEMENT OF WORKS.

10. NO EXCAVATION WITHIN 5M OF ANY EXISTING TREE WITHOUT APPROVAL OF THE ENGINEER.

11. NO BLASTING IS PERMITTED WITHIN THE CITY OF GREATER BENDIGO WITHOUT OBTAINING COUNCIL'S SPECIAL DISPENSATION.

12. EXCAVATED MATERIAL SURPLUS TO FILLING REQUIREMENTS OF THE WORKS SHALL BE REMOVED FROM SITE AS SPECIFIED.

13. ALL SURPLUS ROCK, CONCRETE AND BITUMINOUS RUBBLE SHALL BE DISPOSED OFF SITE AS SPECIFIED. THE CONTRACTOR SHALL CHECK WITH SUPERINTENDENT WHETHER ANY LARGE ROCKS ARE REQUIRED FOR LANDSCAPE PURPOSES PRIOR TO DISPOSAL.

14. NATURESTRIPS AND ALL AREAS OF CUT OUTSIDE ROAD RESERVE TO BE SURFACED WITH 100MM MINIMUM COMPACTED LAYER OF TOPSOIL.
- B. ROAD WORKS

1. FOOTPATHS ARE TO BE 1.5M WIDE UNLESS SHOWN OTHERWISE. FOOTPATHS TO BE CONSTRUCTED TO THE CITY OF GREATER BENDIGO STANDARDS.

2. ALL CHAINAGES REFER TO ROAD PAVEMENT CENTRELINES EXCEPT IN COURT HEADS AND INTERSECTIONS WHERE CHAINAGES REFER TO BACK OF KERB.

3. THE CONTRACTOR IS REQUIRED TO CONFINE CONSTRUCTION VEHICLES TO THE ROAD RESERVE AND EASEMENTS. ANY DAMAGE CAUSED TO ALLOTMENTS MUST BE MADE GOOD.

4. ALL BATTERS SHALL BE TO THE CITY OF GREATER BENDIGO STANDARDS.

- CUT 1 IN 12 UNLESS OTHERWISE SHOWN.

- FILL 1 IN 12 UNLESS OTHERWISE SHOWN.

5. ALL SET OUT INFORMATION GIVEN IS TO LIP OF KERB UNLESS OTHERWISE SHOWN.

6. WHERE CRUSHED ROCK IS SHOWN UNDER CONCRETE FOOTPATHS CONSTRUCTED ON FILL, THE CRUSHED ROCK IS TO BE 20MM CLASS 3. WHERE CUT BATTERS ARE STEEPER THAN 1:6 THEY MUST BE HYDRO MULCHED.

7. SUBGRADE BE COMPACTED TO A MINIMUM OF 98% STANDARD MAXIMUM DRY DENSITY (AS3798), WITH THE SUBBASE COMPACTED IN ACCORDANCE WITH SCALE C INVICROADS TABLE 304.071 USING FINE CRUSHED ROCK AND THE BASE COURSE TO 100% MINIMUM MODIFIED DRY DENSITY. ANY FILLING BENEATH ROAD PAVEMENT AREAS TO BE COMPACTED TO 100% OF MAXIMUM DRY DENSITY.COMPACTION TESTING TO BE AS PER COUNCIL REQUIREMENTS.

8. ANY BACKFILL WITHIN 1.0M OF A COUNCIL ASSET (FOOTPATH OR ROAD) IS TO BE FCR. FILL MATERIAL IS ACCEPTABLE IF COMPACTED TO ENSURE 95% COMPACTION. COMPACTION TESTING TO BE PERFORMED AT ONE PER 60M OF TRENCH.

9. CONCRETE TO HAVE 28DAY STRENGTH OF 25MPA UNLESS NOTED OTHERWISE

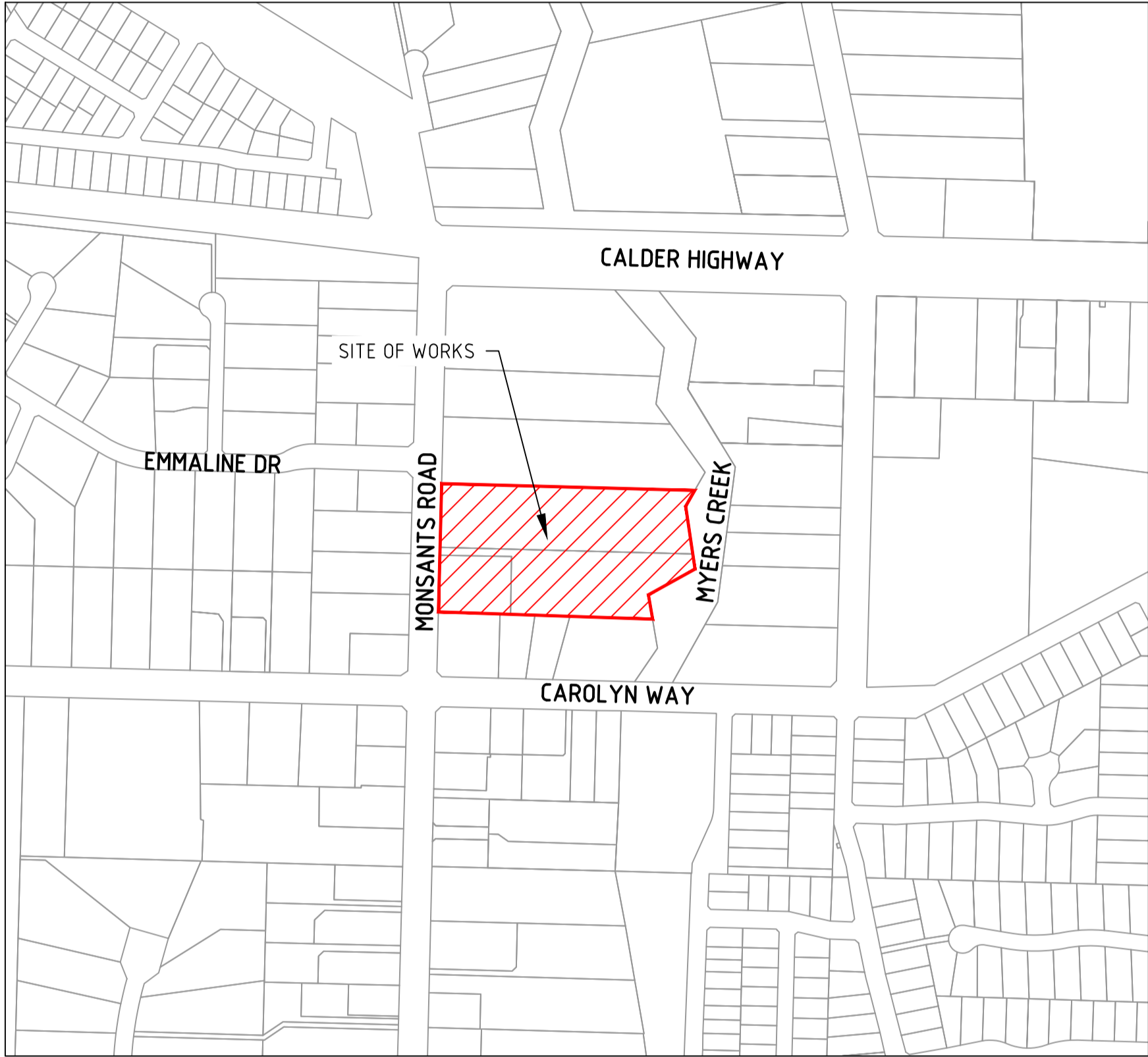
10. ALL TREES IDENTIFIED FOR REMOVAL INCLUDE GRUBBING OF ROOTS TO A MINIMUM OF 300MM DEPTH. GRUBBED AREA TO BE REPLACED WITH COMPACTED FILL UNDER LEVEL ONE SUPERVISION. CONTRACTOR TO CONFIRM WITH SUPERINTENDENT IF TREES ARE TO BE KEPT FOR FUTURE USE IN LANDSCAPING

11. CULTURAL HERITAGE MANAGEMENT PLAN

- CONTRACTOR TO READ CULTURAL HERITAGE MANAGEMENT PLAN (REFERENCE NO. 17228).

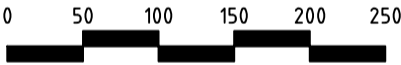
- CULTURAL HERITAGE INDUCTION MUST TAKE PLACE PRIOR TO COMMENCEMENT OF WORKS.

- CONTRACTOR TO PROVIDE THE REGISTERED ABORIGINAL PARTY (RAP) WITH ATLEAST TWO WEEKS NOTIFICATION BEFORE COMMENCEMENT OF WORKS.



## LOCALITY PLAN

SCALE: H 15000  
SCALE @ A1



## DRAWING SCHEDULE

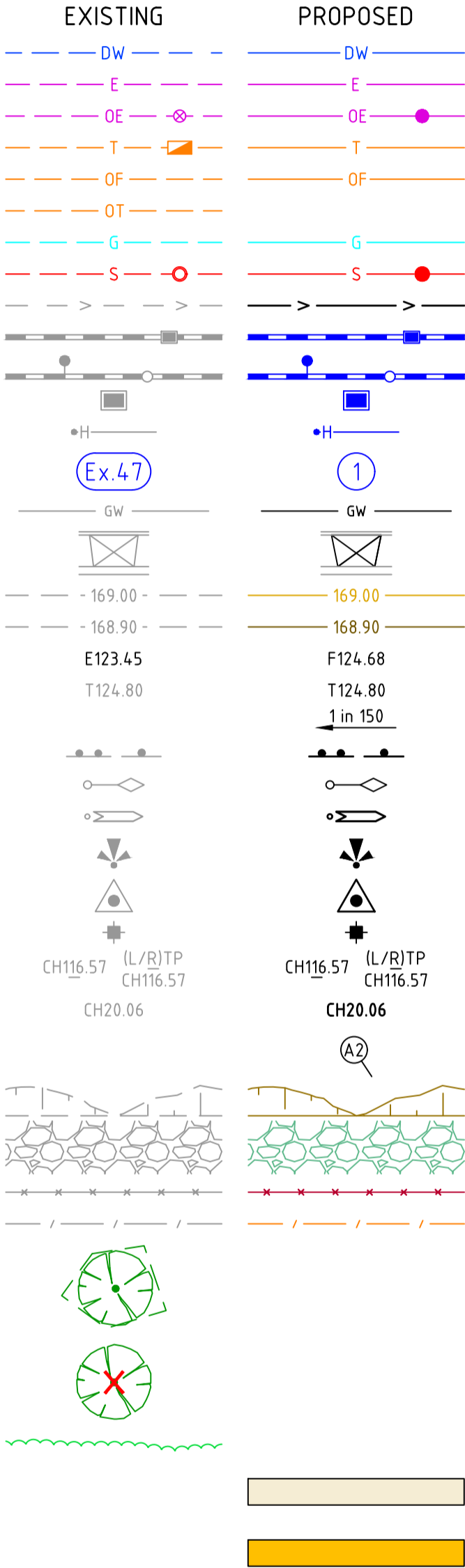
DRAWING	DESCRIPTION	SHEET No.	REVISION
CR100	ROAD & DRAINAGE FACE SHEET	1	C
CR200	Road & DRAINAGE LAYOUT PLAN	2	C
CR201	EARTHWORKS PLAN	3	C
CR300	ROAD LONG SECTIONS	4	C
CR400	ROAD CROSS SECTIONS	5	C
CR500	INTERSECTION DETAILS - SHEET 1	6	C
CR501	INTERSECTION DETAILS - SHEET 2	7	C
CR600	DRAINAGE LONG SECTIONS - SHEET 1	8	C
CR601	DRAINAGE LONG SECTIONS - SHEET 2	9	C
CR602	DRAINAGE LONG SECTIONS - SHEET 3	10	C
CR603	DRAINAGE LONG SECTIONS - SHEET 4	11	C
CR604	DRAINAGE LONG SECTIONS - SHEET 5	12	C
CR605	DRAINAGE LONG SECTIONS - SHEET 6	13	C
CR606	DRAINAGE LONG SECTIONS - SHEET 7	14	C
CR607	DRAINAGE LONG SECTIONS - SHEET 8	15	C
CR700	PAVEMENT AND TYPICAL DETAILS	16	C
CR800	SIGNAGE AND LINEMARKING	17	C



## LEGEND

### DESCRIPTION

- WATER MAIN, VALVE AND HYDRANT
- UNDERGROUND ELECTRICITY
- OVERHEAD ELECTRICITY & POLE
- TELECOMMUNICATIONS & SERVICE PIT
- OPTIC FIBRE
- OVERHEAD TELECOMMUNICATIONS
- GAS MAIN
- SEWER & MAINTENANCE STRUCTURE
- CENTRAL INVERT
- COUNCIL STORMWATER DRAIN AND PIT
- STORM WATER DRAINAGE PROPERTY INLETS
- COUNCIL STORM WATER PITS
- HOUSE DRAIN
- STORM WATER DRAINAGE PIT NUMBER
- GAS & WATER CONDUITS
- CONCRETE VEHICLE CROSSING
- SURFACE CONTOUR MINOR
- SURFACE CONTOUR MAJOR
- SURFACE LEVEL
- BATTER LEVEL (TOP / TOE)
- EARTHWORKS GRADE
- SIGN AND POST
- LIGHT & POLE (BY OTHERS)
- STREET SIGN
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- BOLLARD
- ROAD CHAINAGES
- LOT CHAINAGES
- SETOUT POINT
- BATTER
- ROCK BEACHING
- FENCE - TREE PROTECTION
- FENCES
- TREE (& SURVEYED CANOPY) TO BE RETAINED
- TREE TO BE REMOVED
- VEGETATION LINE
- FOOTPATH (CONCRETE)
- FOOTPATH (GRANITIC GRAVEL)



## SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		GAS		NBN (TELECOM)		ELECTRICITY			
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE		U/G CABLE	
							SIDE	OFFSET	SIDE	OFFSET
SOLERA COURT	NORTH	2.40	NORTH	1.90	SOUTH	0.90	SOUTH	1.0x	SOUTH	1.40
MONSANTS ROAD	WEST	EX 3.20	EAST	EX 11.00	EAST	EX 3.20	-	-	EAST	EX 3.70

1. TELECOMMUNICATION AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARDS DRG's.
2. GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.
3. x = OFFSET FROM BACK OF KERB

### 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.



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				Scale
C	AMENDED AS PER COUNCIL COMMENTS	A.W.	MAR 2024	
B	COUNCIL COMMENTS	A.W.	NOV 2023	
A	PRELIMINARY ISSUE	A.W.	OCT 2023	
Rev	Amendments	Approved	Date	



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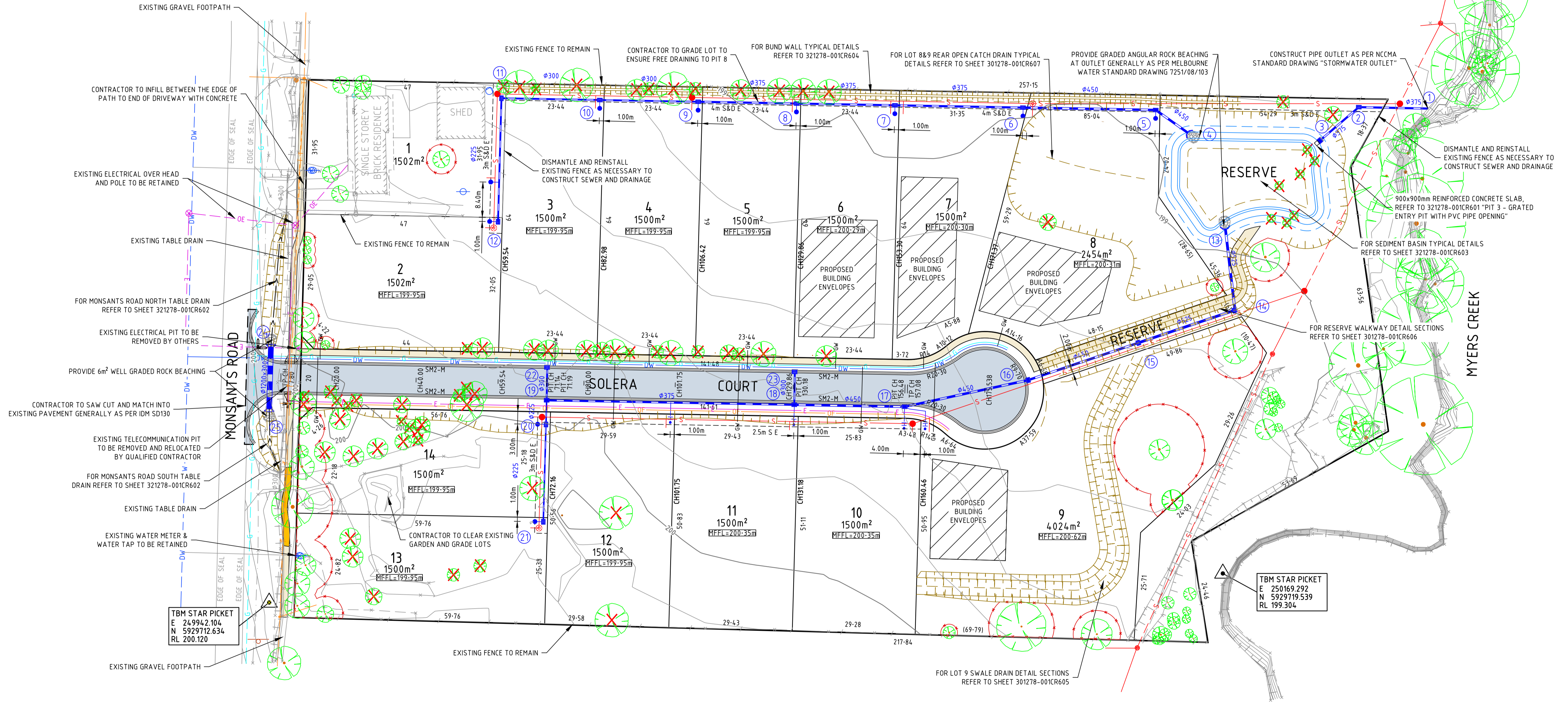
16 BRIDGE STREET BENDIGO  
VICTORIA 3550 AUSTRALIA T 61 3 5448 2500  
spiire.com.au ABN 55 050 029 635

Designed  
J.CAPACETE  
Authorised  
A.WILKIE

Checked  
B.IBBS  
Date  
MAR 2024

MONSANTS ROAD  
14 LOT SUBDIVISION  
ROAD AND DRAINAGE  
ROAD & DRAINAGE FACE SHEET  
CITY OF GREATER BENDIGO  
11 & 13 MONSANTS ROAD PTY LTD

**PRELIMINARY** Drg No 321278-001CR100 Rev C

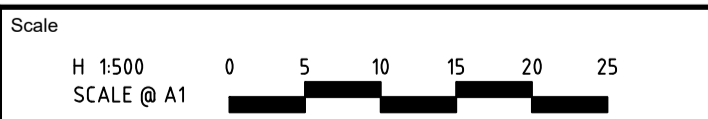


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GREATER BENDIGO CITY COUNCIL  
ENGINEERING PLANS  
APPROVED BY: Peter Brasier  
DATE: 18 March 2024

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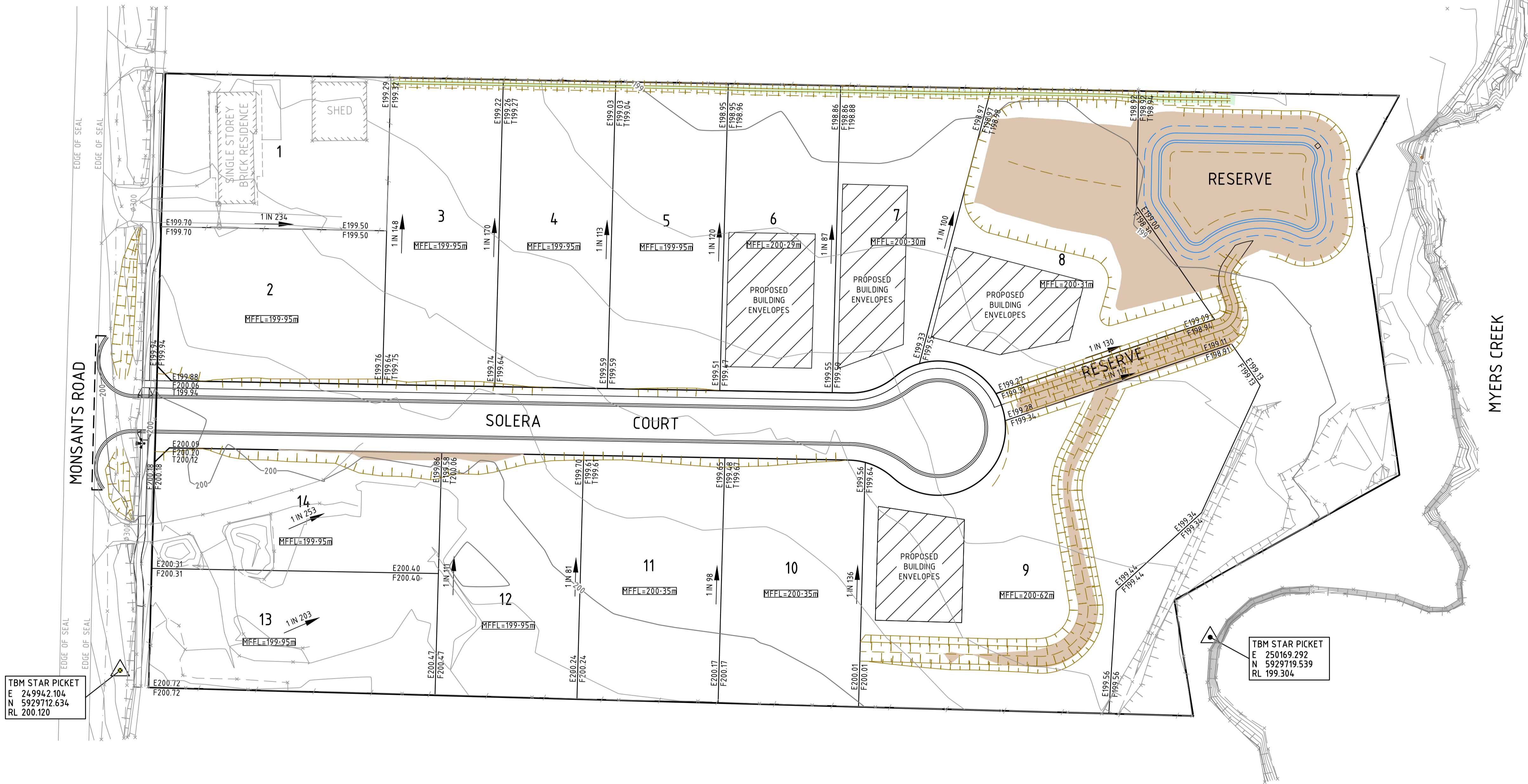
**MONSANTS ROAD  
14 LOT SUBDIVISION  
ROAD AND DRAINAGE  
LAYOUT PLAN**  
CITY OF GREATER BENDIGO  
11 & 13 MONSANTS ROAD PTY LTD

**PRELIMINARY** Drg No 321278-001CR200 Rev C



EXCAVATION GREATER THAN 200mm

FILLING GREATER THAN 200mm



TBM STAR PICKET  
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N 5929712.634  
RL 200.120

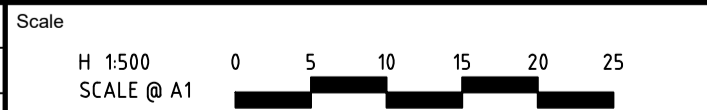
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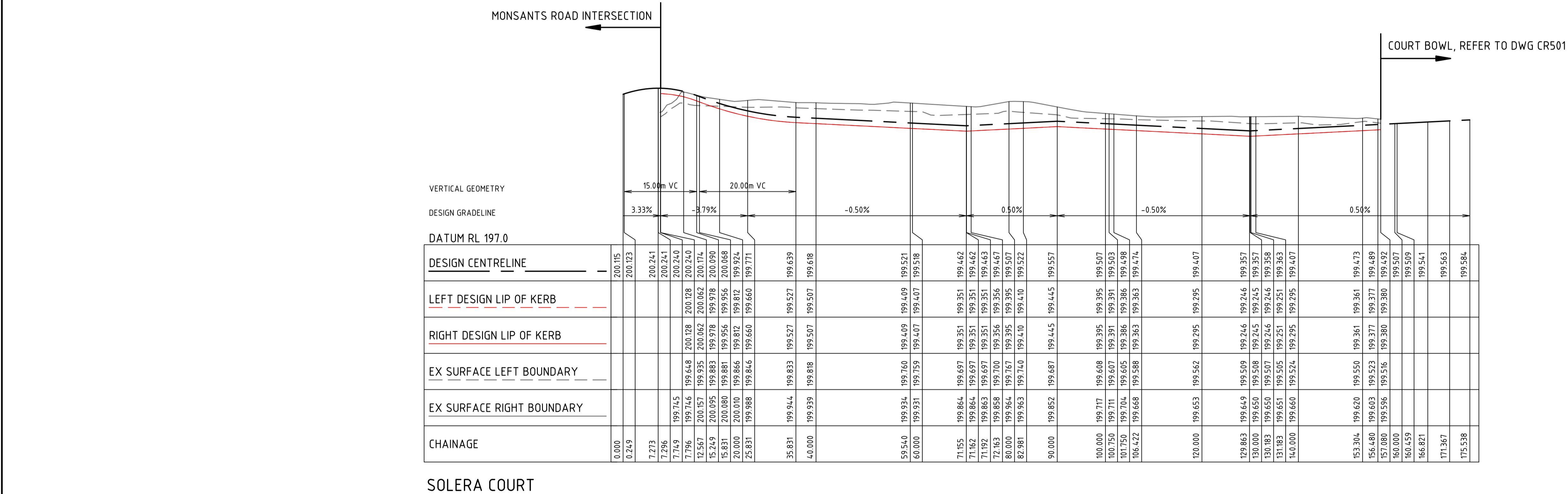
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B.IBBS

Date  
MAR 2024

**MONSANTS ROAD  
14 LOT SUBDIVISION  
ROAD AND DRAINAGE  
EARTHWORKS PLAN**  
CITY OF GREATER BENDIGO  
11 & 13 MONSANTS ROAD PTY LTD

**PRELIMINARY** Drg No 321278-001CR201 Rev **C**

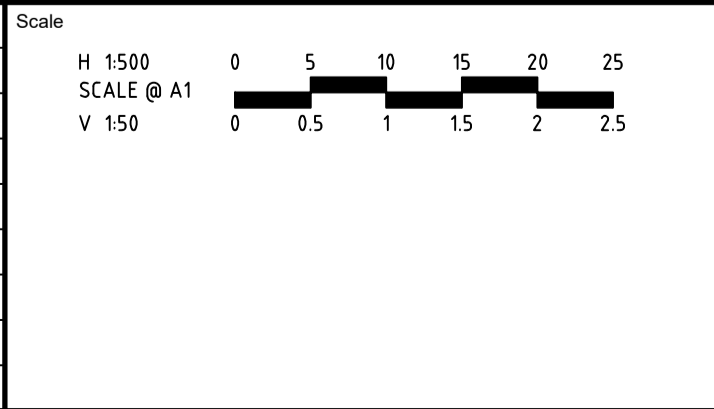
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SOLERA COURT

GREATER BENDIGO CITY COUNCIL  
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Authorised A.WILKIE	Date MAR 2024

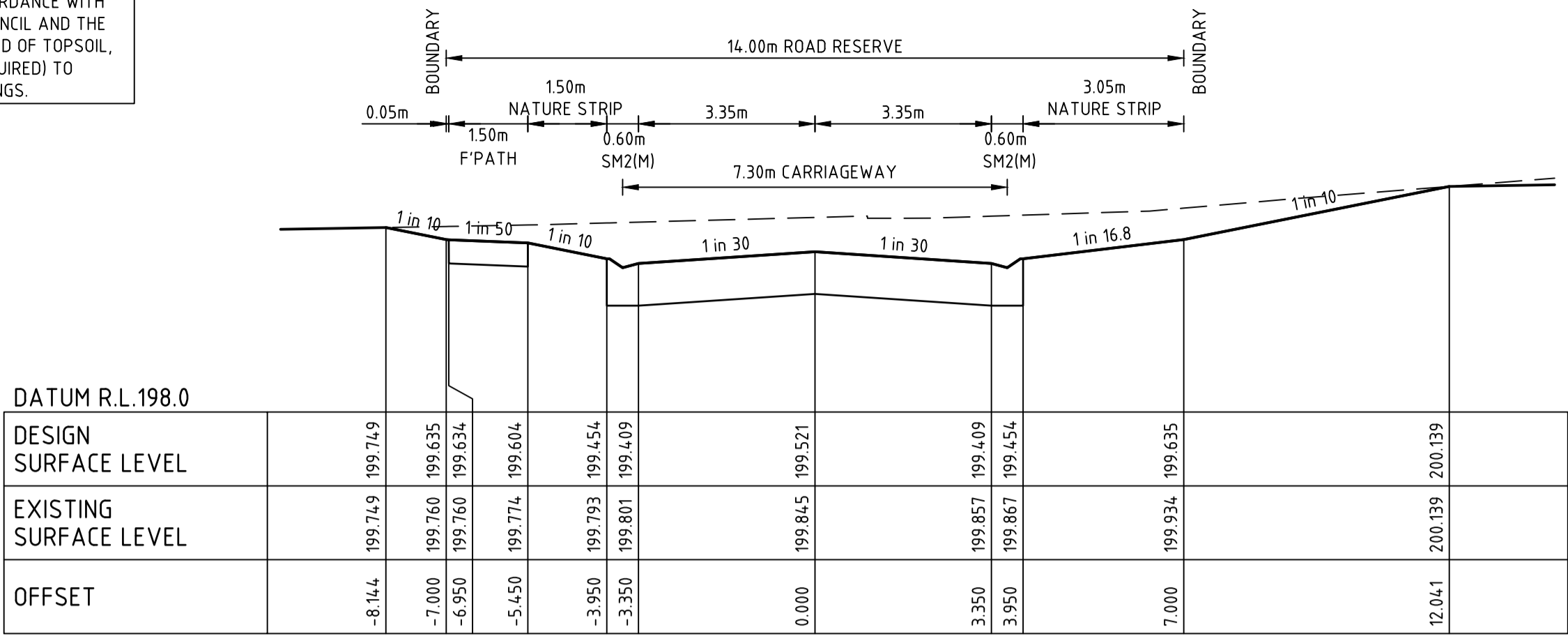
MONSANTS ROAD  
14 LOT SUBDIVISION  
ROAD AND DRAINAGE  
ROAD LONG SECTIONS  
CITY OF GREATER BENDIGO  
11 & 13 MONSANTS ROAD PTY LTD

**PRELIMINARY**

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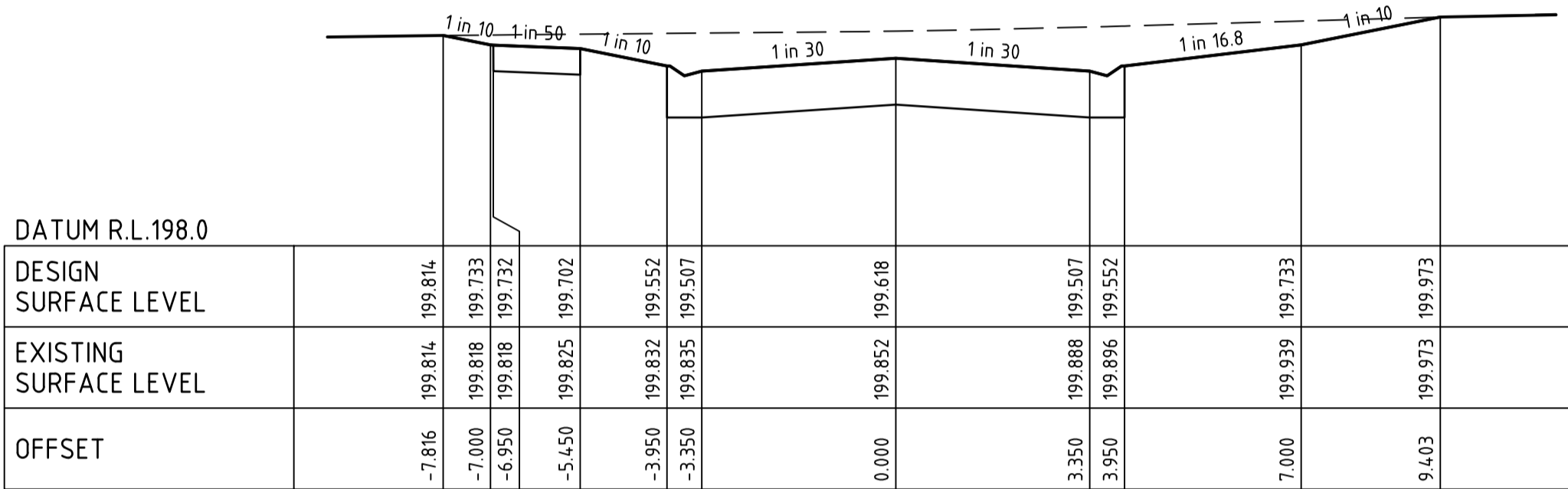
Rev  
C

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.



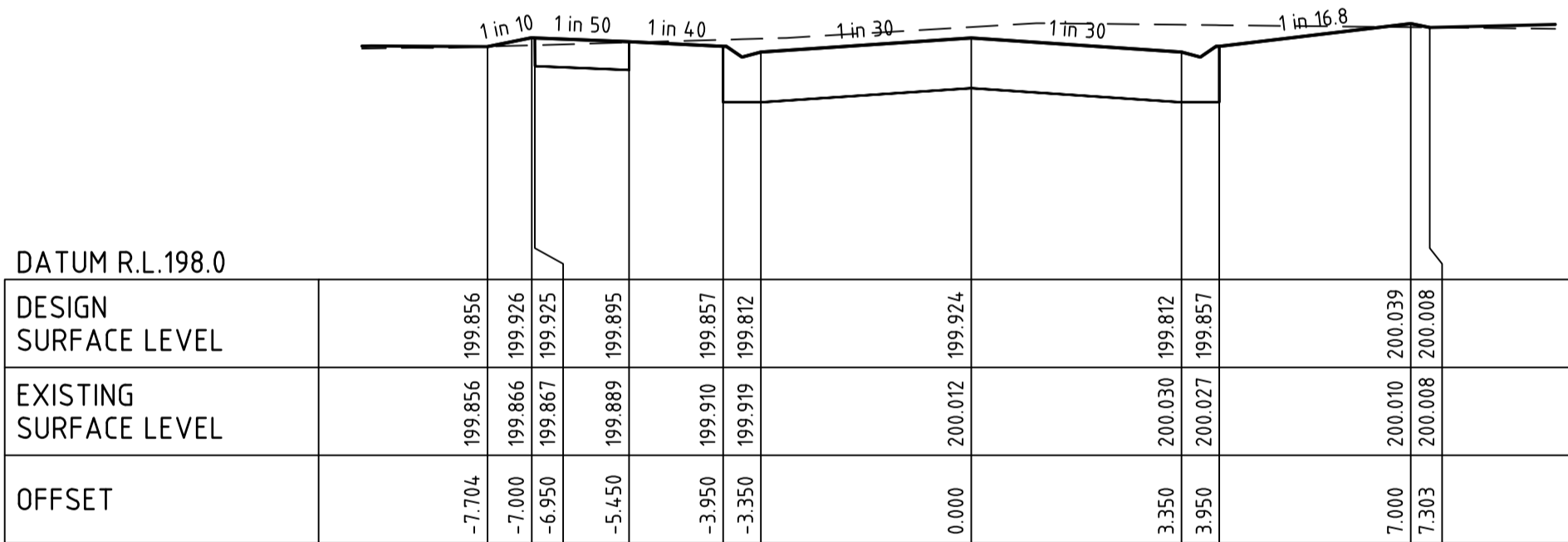
SOLERA COURT

CH 59.54



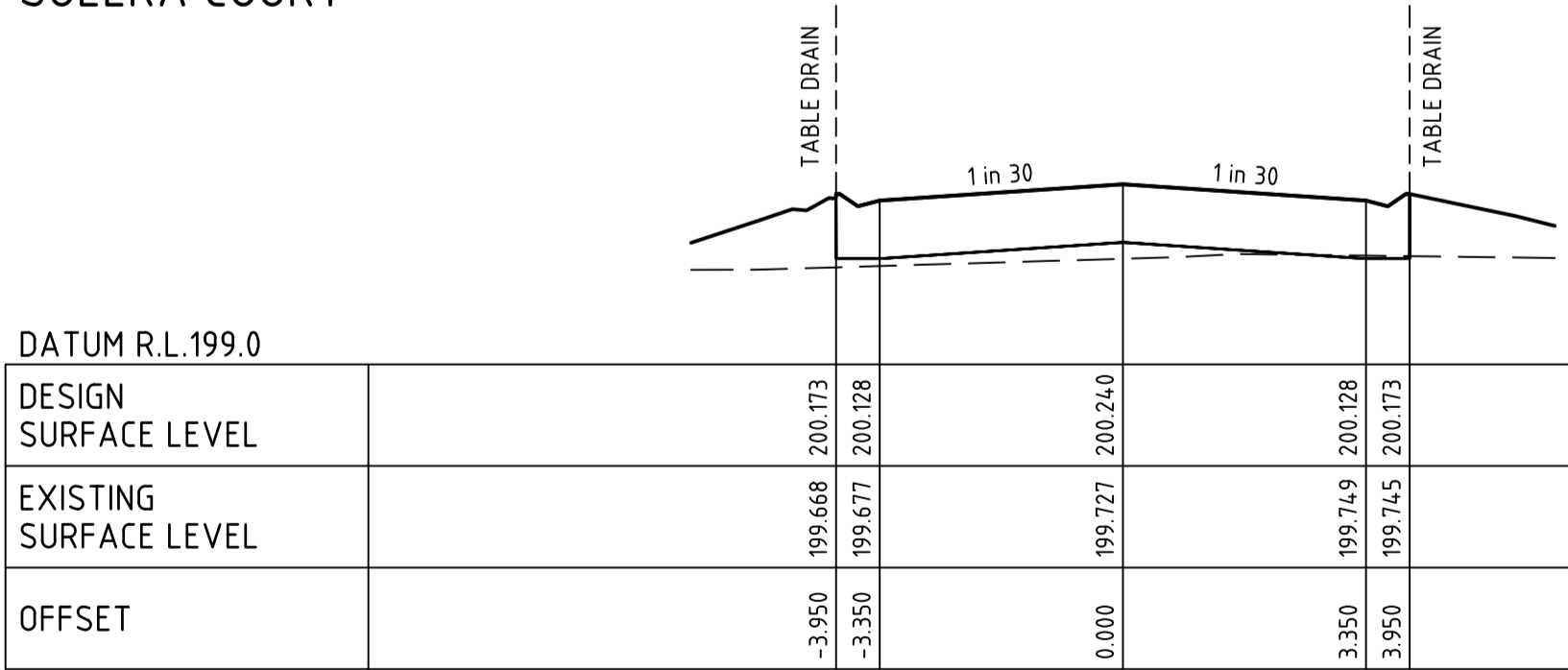
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CH 40.00



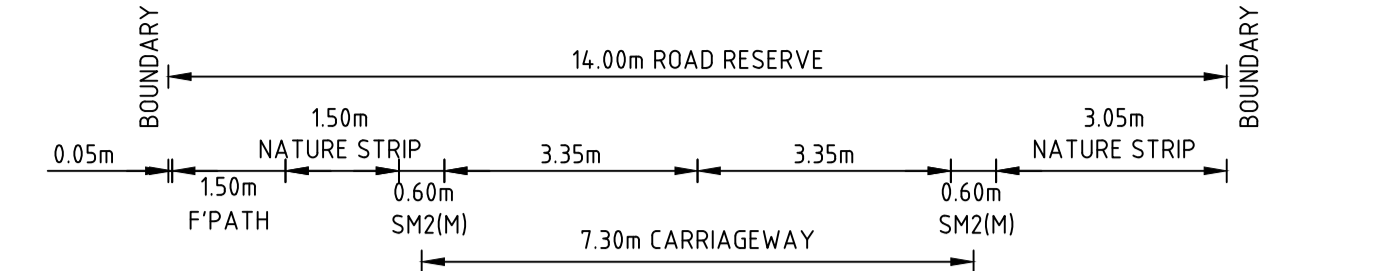
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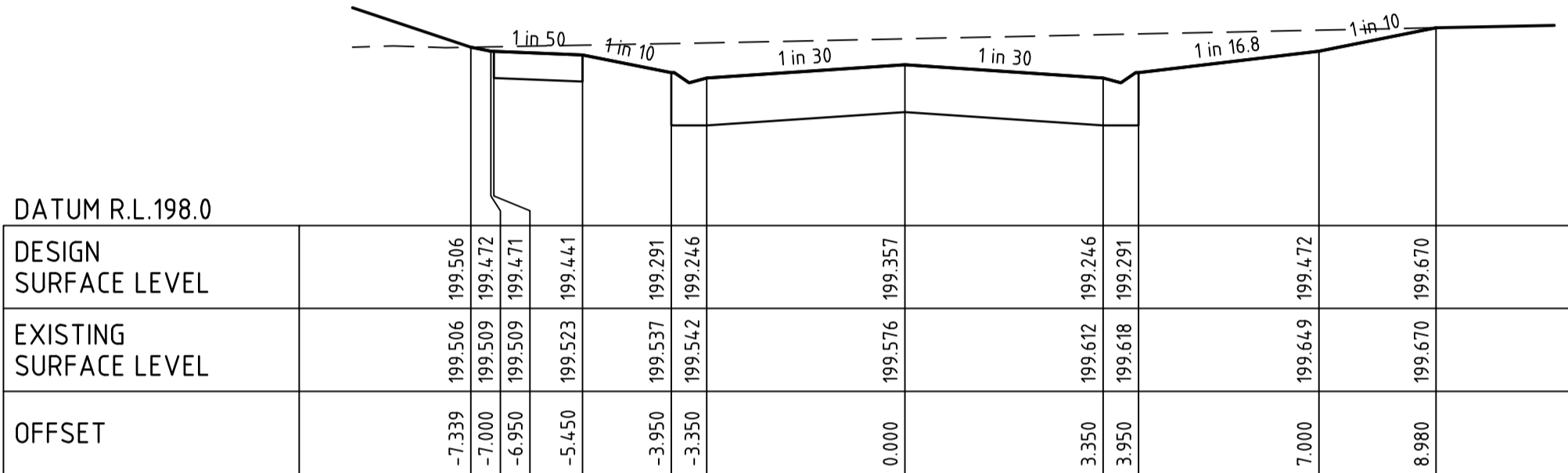
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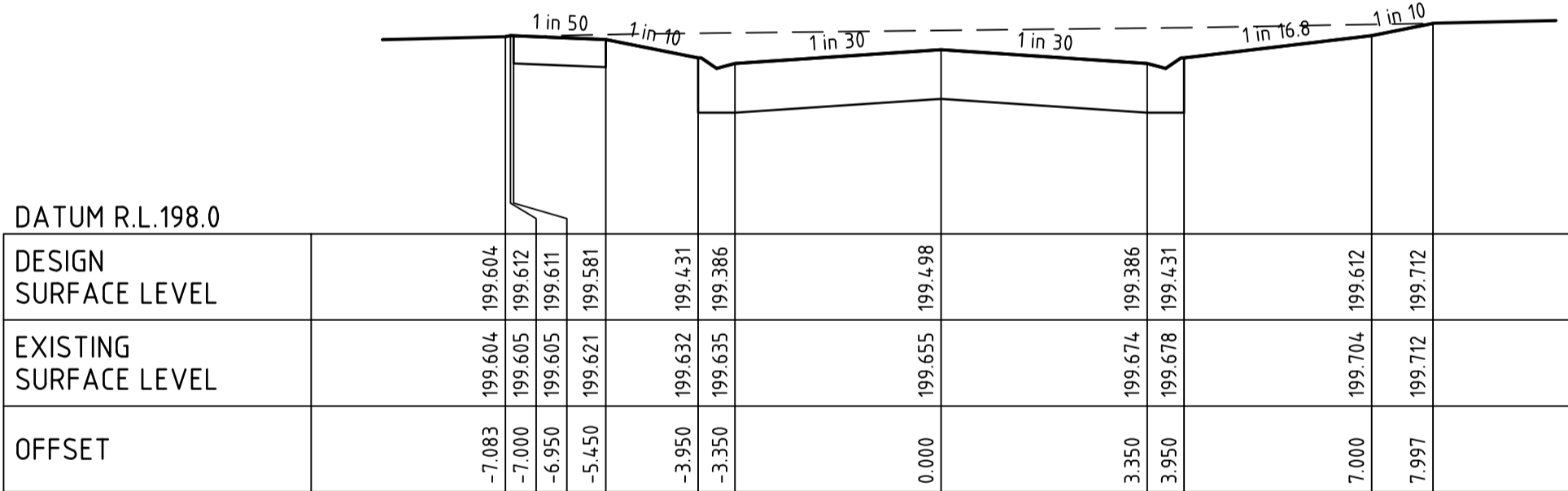
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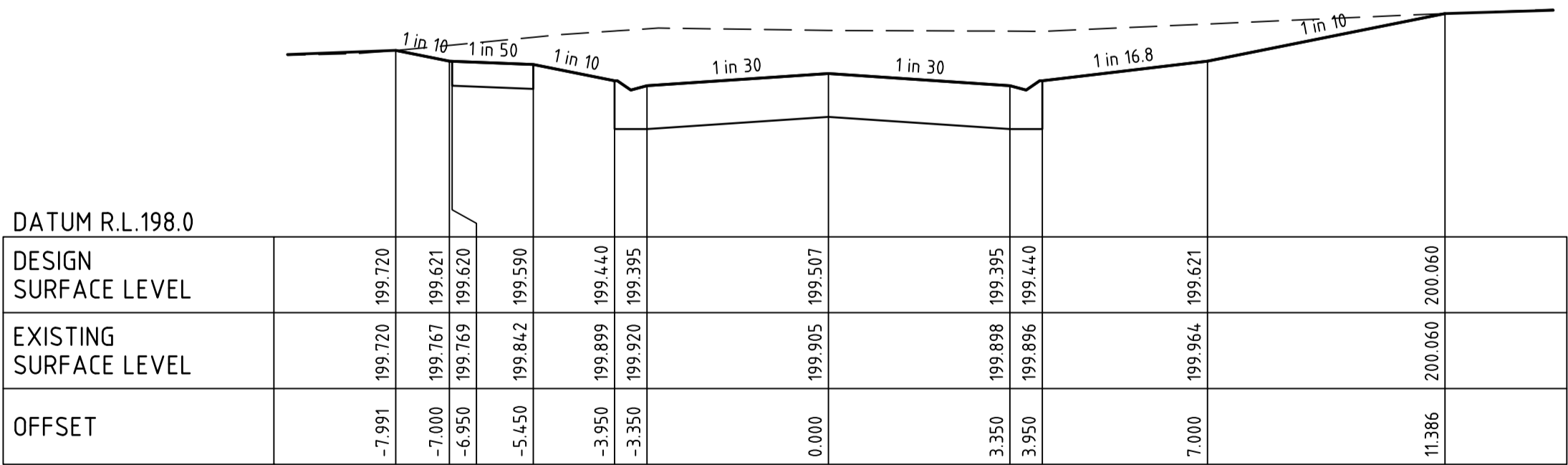
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CH 129.86



SOLERA COURT

CH 101.75



SOLERA COURT

CH 80.00

GREATER BENDIGO CITY COUNCIL  
ENGINEERING PLANS

APPROVED BY: Peter Brasier

DATE: 18 March 2024

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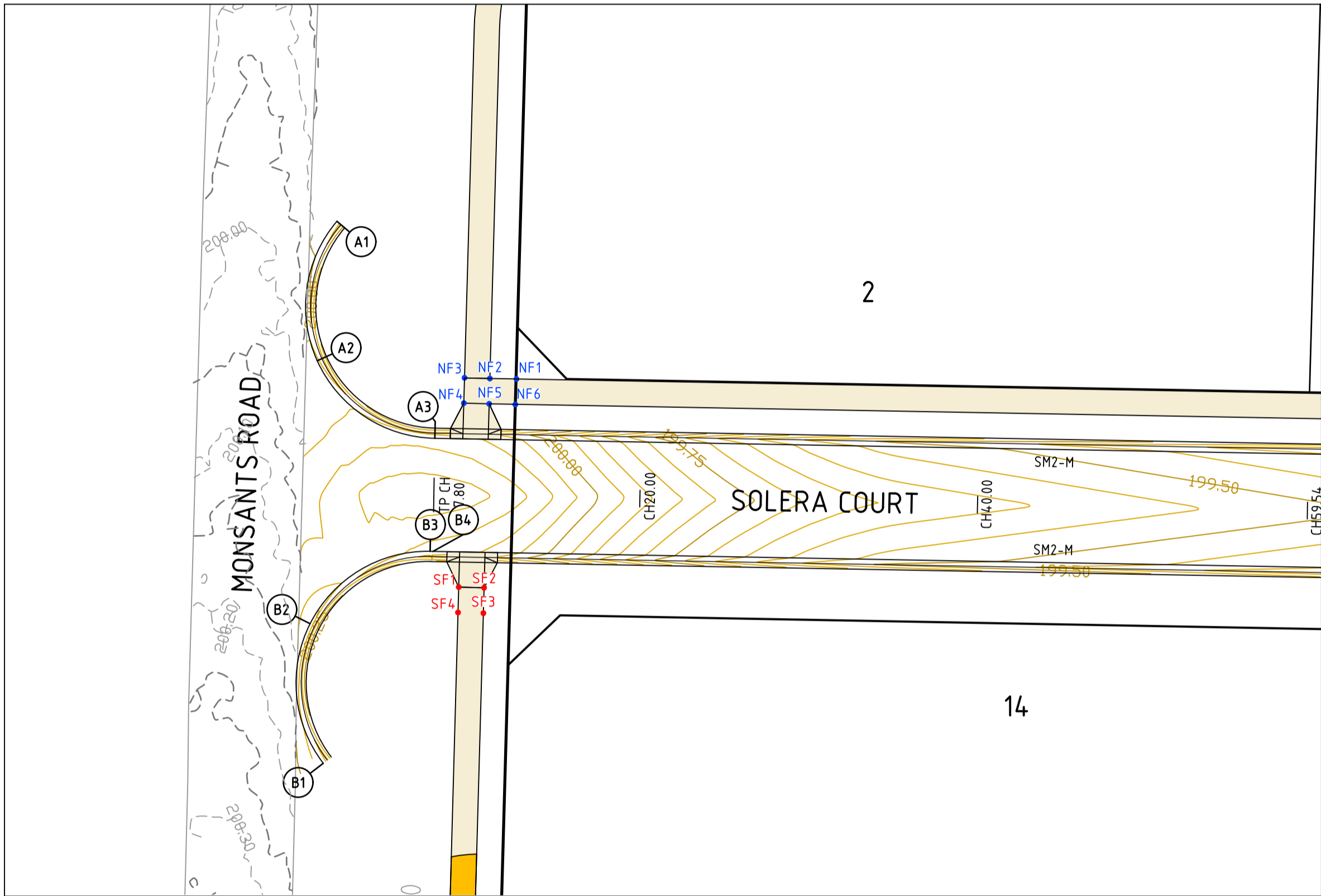
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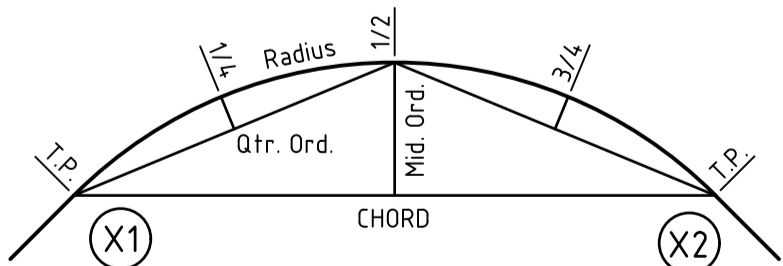
**MONSANTS ROAD  
14 LOT SUBDIVISION  
ROAD AND DRAINAGE  
ROAD CROSS SECTIONS  
CITY OF GREATER BENDIGO  
11 & 13 MONSANTS ROAD PTY LTD**

**PRELIMINARY** Drg No **321278-001CR400** Rev **C**

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INTERSECTION DETAIL PLAN  
INTERSECTION OF MONSANTS ROAD AND SOLERA COURT



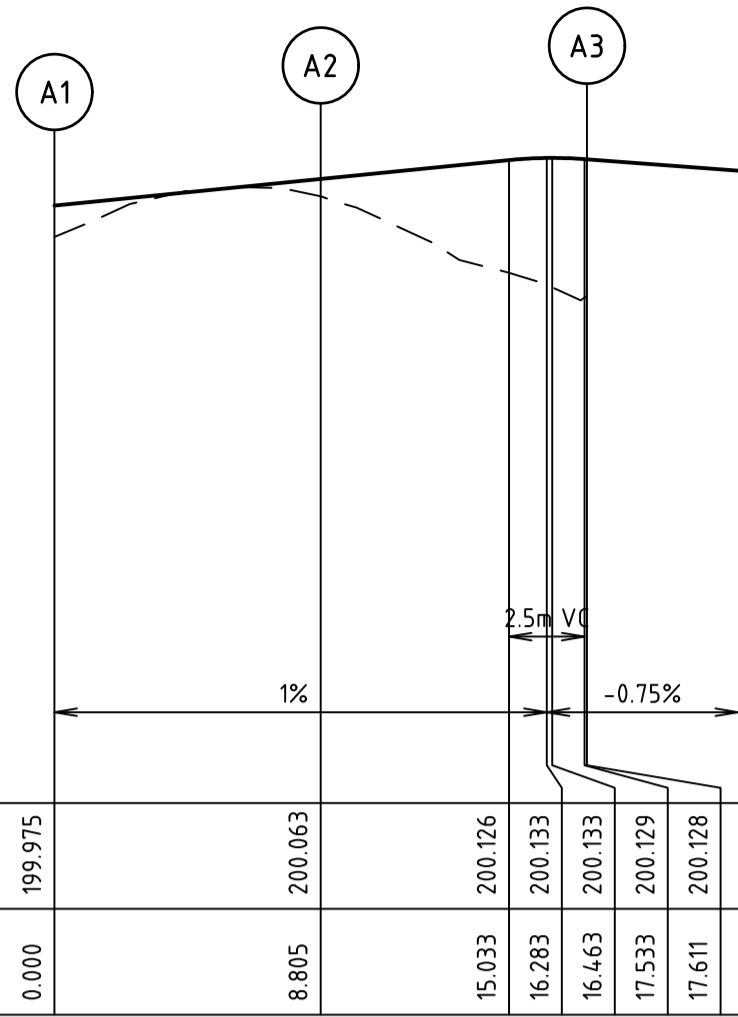
KERB RETURN SETOUT DETAIL

SOUTH FOOTPATH (SF)

Point No	Easting	Northing	RL
SF1	249946-383	5929760-680	200-261
SF2	249947-882	5929760-641	200-291
SF3	249947-840	5929759-139	200-279
SF4	249946-341	5929759-181	200-249

NORTH FOOTPATH (NF)

Point No	Easting	Northing	RL
NF1	249949-805	5929773-006	200-114
NF2	249948-225	5929773-034	200-118
NF3	249946-726	5929773-075	200-088
NF4	249946-684	5929771-576	200-100
NF5	249948-184	5929771-535	200-130
NF6	249949-739	5929771-507	200-107



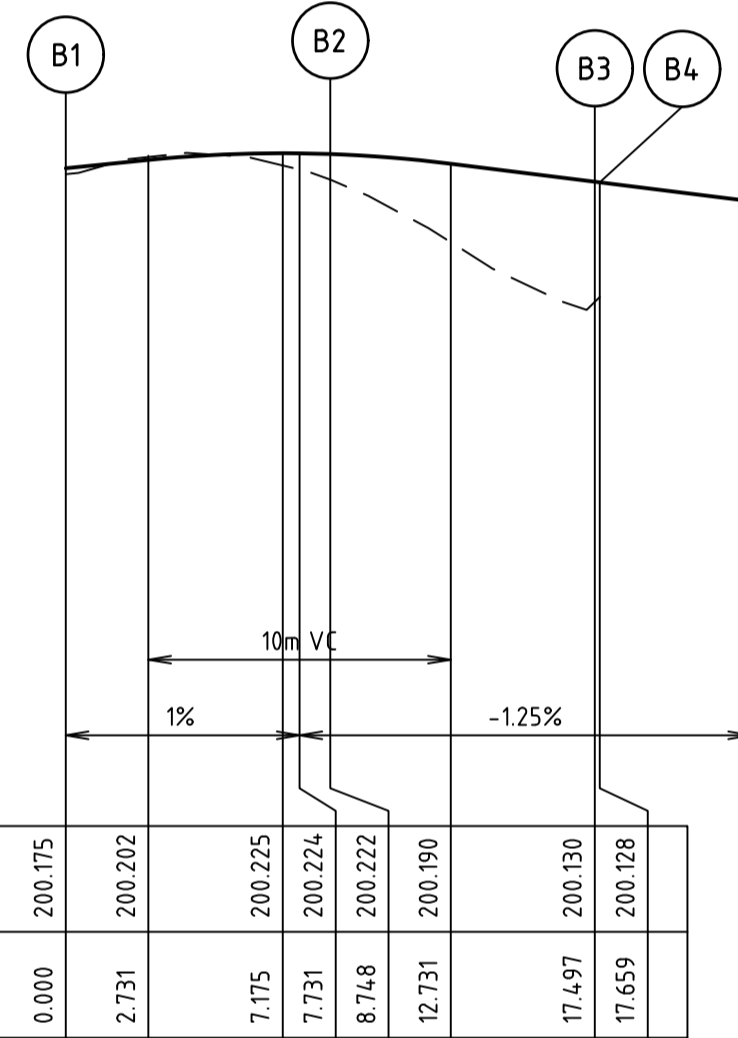
VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 198.0

DESIGN LEVEL		199.975	200.063	200.126	200.133	200.133	200.129	200.128
CHAINAGE		0.000	8.805	15.033	16.283	16.463	17.533	17.611

ALIGNMENT A



VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 198.0

DESIGN LEVEL		200.175	200.202	200.225	200.224	200.222	200.190	200.130	200.128
CHAINAGE		0.000	2.731	7.175	7.731	8.748	12.731	17.497	17.659

ALIGNMENT B

ALIGNMENT A

POINT NO	EASTING	NORTHING	RL	CHAINAGE
A1	249939-169	5929782-345	199-975	0-000
1/4	249937-996	5929780-491	199-997	2-201
1/2	249937-387	5929778-383	200-019	4-403
3/4	249937-388	5929776-189	200-041	6-604
A2	249938-000	5929774-082	200-063	8-805
1/4	249939-175	5929772-229	200-085	11-007
1/2	249940-819	5929770-777	200-107	13-208
3/4	249942-803	5929769-840	200-129	15-409
A3	249944-970	5929769-492	200-128	17-611

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
A1-A2	7-800	8-805	8-345	1-210	0-309
A2-A3	7-800	8-805	8-345	1-210	0-309

ALIGNMENT B

POINT NO	EASTING	NORTHING	RL	CHAINAGE
B1	249938-357	5929750-250	200-175	0-000
1/4	249937-285	5929752-148	200-197	2-187
1/2	249936-780	5929754-268	200-216	4-374
3/4	249936-882	5929756-446	200-224	6-561
B2	249937-582	5929758-510	200-222	8-748
1/4	249938-826	5929760-300	200-209	10-935
1/2	249940-517	5929761-676	200-185	13-123
3/4	249942-523	5929762-530	200-158	15-310
B3	249944-686	5929762-796	200-130	17-497
B4	249944-849	5929762-793	200-128	17-659

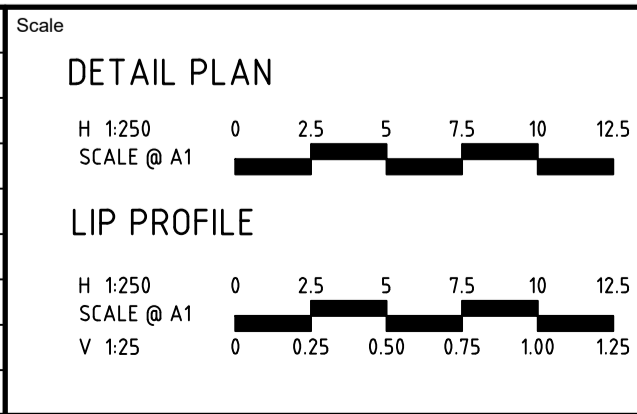
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
B1-B2	7-800	8-748	8-297	1-195	0-305
B2-B3	7-800	8-748	8-297	1-195	0-305

GREATER BENDIGO CITY COUNCIL  
ENGINEERING PLANS

APPROVED BY: Peter Brasier

DATE: 18 March 2024

Rev	Amendments	Approved	Date
C	AMENDED AS PER COUNCIL COMMENTS	A.W.	MAR 2024
B	COUNCIL COMMENTS	A.W.	NOV 2023
A	PRELIMINARY ISSUE	A.W.	OCT 2023



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16 BRIDGE STREET BENDIGO  
VICTORIA 3550 AUSTRALIA T 61 3 5448 2500  
spiire.com.au ABN 55 050 029 635

Designed  
J.CAPACETE

Authorised  
A.WILKIE

Checked  
B.IBBS

Date  
MAR 2024

**MONSANTS ROAD**  
**14 LOT SUBDIVISION**  
**ROAD AND DRAINAGE**  
**INTERSECTION DETAILS - SHEET 1**  
CITY OF GREATER BENDIGO  
11 & 13 MONSANTS ROAD PTY LTD

**PRELIMINARY** Drg No **321278-001CR500** Rev **C**



POINT NO	EASTING	NORTHING	RL	CHAINAGE
C 1	250099.4	5929766.807	199.380	0.000
%	250097.5230	5929767.025	199.397	3.363
%	250100.853	5929767.793	199.414	6.726
%	250103.952	5929769.088	199.438	10.089
C 2	250105.797	5929770.793	199.492	13.453
%	250110.014	5929772.468	199.374	17.064
%	250113.590	5929772.778	199.356	20.674
%	250117.035	5929771.765	199.330	24.285
C 3	250119.875	5929769.569	199.328	27.896
%	250121.722	5929766.491	199.302	31.507
%	250122.322	5929759.953	199.302	35.118
C 4	250125.895	5929759.436	199.226	38.729
%	250119.638	5929756.426	199.344	42.339
%	250116.721	5929754.334	199.362	45.950
%	250113.243	5929753.446	199.380	49.561
C 5	250109.620	5929753.884	199.398	53.172
%	250106.520	5929755.588	199.416	56.783
%	250103.747	5929757.793	199.438	60.394
%	250100.693	5929758.886	199.414	63.509
%	250097.452	5929759.770	199.397	66.872
C 6	250094.109	5929760.109	199.380	70.236

A diagram of a parabolic curve. The curve starts at point X1 on the left and ends at point X2 on the right. A horizontal line segment connects X1 and X2, labeled "CHORD". A vertical line segment from the peak of the curve to the chord is labeled "Mid. Ord.". A line segment from the peak to the curve is labeled "Radius". A line segment from the peak to the chord is labeled "Qtr. Ord.". The curve is divided into two equal parts by the vertical line, with labels "1/4" and "3/4" indicating the division of the curve length.

KERB RETURN SETOUT DETAIL

Point No	Easting	Northing	RL
BOK1	250094-099	5929759-509	199-425
BOK2	250100-833	5929758-182	199-461
BOK3	250106-142	5929755-122	199-461
BOK4	250112-373	5929752-839	199-4-3
BOK5	250120-072	5929756-012	199-389
BOK6	250122-866	5929764-223	199-347
BOK7	250122-342	5929766-54	199-364
BOK8	250121-615	5929768-151	199-356
BOK9	250121-433	5929768-644	199-356
BOK10	250120-323	5929769-968	199-365
BOK11	250117-195	5929772-356	199-384
BOK12	250112-936	5929773-421	199-404
BOK13	250106-436	5929771-359	199-437
BOK14	250101-743	5929768-747	199-465
BOK15	250094-241	5929767-407	199-425

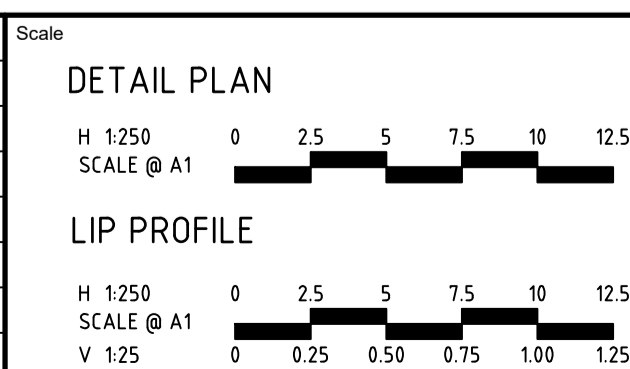


**GREATER BENDIGO CITY COUNCIL  
ENGINEERING PLANS**

**APPROVED BY: Peter Brasier**

**DATE: 18 March 2024**

C	AMENDED AS PER COUNCIL COMMENTS	A.W.	MAR 2024
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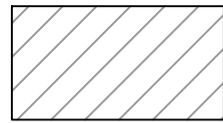
Designed	Checked
J.CAPACETE	B.IBBS
Authorised	Date
A.WILKIE	MAR 2024

**MONSANTS ROAD  
14 LOT SUBDIVISION  
ROAD AND DRAINAGE  
INTERSECTION DETAILS - SHEET 2  
CITY OF GREATER BENDIGO  
11 & 13 MONSANTS ROAD PTY LTD**

**PRELIMINARY** Drg No **321278-001CR501**

Rev  
**C**

file name: 321278-001CR600.dwg, layout name: CR600, plotted by: jth.Capacete,  
file location: G:\321278\001\Cr600.dwg, plot date: 18/03/2024, 10:42 AM, Sheet 8 of 17 Sheets



CONSTRUCT PIPE OUTLET AS PER NCCMA  
STANDARD DRAWING 'STORM WATER OUTLET'

CREEK IL 196.904

Pipe Diameter	375Ø RRJ	375Ø RRJ
Pipe Class	Class 4	Class 4
Pipe Grade	1 in 175	1 in 175
Velocity (m/s)	Vf=1.200	Vf=1.205
Pipe Flow (m3/s)	Qa=0.150	Qa=0.150
Pipe Capacity (m3/s)	Qcap=0.133	Qcap=0.133
DATUM	193.00	
DEPTH TO INVERT	197.612 0.894	197.612 0.894
DESIGN INVERT LEVEL	197.612	197.612
HYDRAULIC GRADE LEVEL	197.612	197.612
FINISHED SURFACE LEVEL	198.506	198.506
EXISTING SURFACE LEVEL	198.506	198.506
CHAINAGE	L=16.588m	L=12.707m

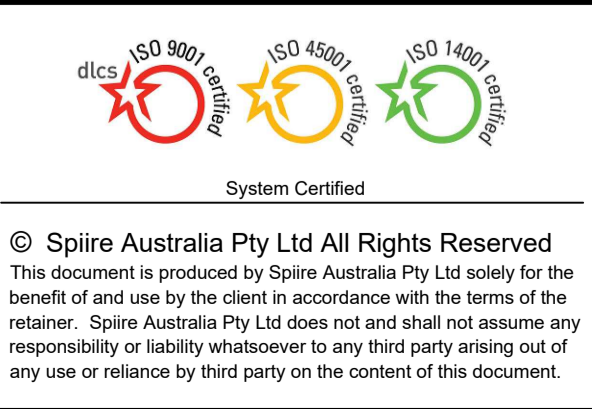
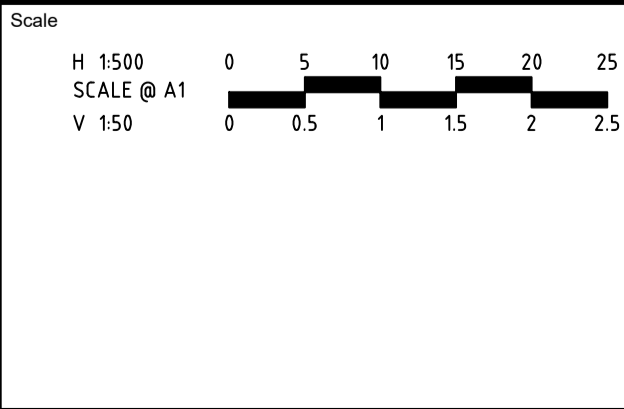
1	2	3	4	5	6	7	8	9	10	11	12
OUTLET TO CREEK		BASIN OUTLET									
450Ø RRJ Class 3 1 in 300 Vf=1.039 Qa=0.117 Qcap=0.165	450Ø RRJ Class 3 1 in 300 Vf=1.035 Qa=0.097 Qcap=0.165	375Ø RRJ Class 3 1 in 300 Vf=0.917 Qa=0.085 Qcap=0.101	375Ø RRJ Class 3 1 in 300 Vf=0.917 Qa=0.072 Qcap=0.101	375Ø RRJ Class 3 1 in 300 Vf=0.917 Qa=0.059 Qcap=0.101	300Ø RRJ Class 3 1 in 300 Vf=0.790 Qa=0.045 Qcap=0.056	300Ø RRJ Class 3 1 in 300 Vf=0.790 Qa=0.031 Qcap=0.056	225Ø PVC 1 in 300 Vf=0.662 Qa=0.016 Qcap=0.026				
193.00											
0.000	198.905	198.250	198.038	197.800	0.450						
9.280	198.949	198.903	198.281	197.831	1.072						
40.912	198.986	198.986	198.406	197.956	1.030						
71.412	198.895	198.898	198.491	198.078	0.820						
94.853	198.961	198.966	198.555	198.176	0.789						
118.294	199.060	199.062	198.649	198.274	0.787						
141.735	199.283	199.283	198.715	198.372	0.911						
165.177	199.362	199.362	198.771	198.471	0.879						
194.568	199.504	199.509	198.831	198.588	0.920						

13	14	15	16
525Ø RRJ Class 4 1 in 300 Vf=1.151 Qa=0.154 Qcap=0.249	525Ø RRJ Class 4 1 in 300 Vf=1.147 Qa=0.143 Qcap=0.248	450Ø RRJ Class 4 1 in 300 Vf=1.035 Qa=0.130 Qcap=0.165	
193.00			
-32.546	198.958	198.325	198.063
197.800	197.800	0.525	
198.390	197.865	0.830	
198.428	197.885	0.810	
198.491	197.966	0.851	
198.502	197.986	0.831	
199.089	198.816		
199.278	199.339		
38.812			

16	17	18	19	20	21	19	22	18	23	24	25
SOLERA COURT						SOLERA COURT		SOLERA COURT		SOLERA COURT	
450Ø RRJ Class 4 1 in 300 Vf=1.035 Qa=0.126 Qcap=0.165	450Ø RRJ Class 4 1 in 300 Vf=1.035 Qa=0.096 Qcap=0.165	375Ø RRJ Class 4 1 in 300 Vf=0.917 Qa=0.047 Qcap=0.101	225Ø PVC 1 in 120 Vf=1.047 Qa=0.031 Qcap=0.042	225Ø PVC 1 in 120 Vf=1.047 Qa=0.016 Qcap=0.042	300Ø Class 4 1 in 175 Vf=1.035 Qa=0.008 Qcap=0.073	300Ø Class 4 1 in 200 Vf=0.968 Qa=0.015 Qcap=0.068	1200x300 BC 1 in 250 Vf=1.664 - Qcap=0.599				
194.00					195.00		194.00			195.00	
38.812	199.278	199.339	198.559	198.078	1.261	0.000	199.821	199.426	198.897	198.522	0.903
66.935	199.589	199.457	198.648	198.198	1.254	198.941	199.311	198.915	198.588	0.723	198.921
95.232	199.621	199.321	198.756	198.306	1.015	199.008	199.206	198.782	198.365	0.841	198.804
154.224	199.821	199.426	198.897	198.522	0.903	199.014	199.311	198.915	198.588	0.723	198.921
159.974	200.014	199.877	198.941	198.590	1.287	199.037	199.037	198.603	1.586		
183.442	200.390	200.389	199.037	198.603	1.586						

GREATER BENDIGO CITY COUNCIL  
ENGINEERING PLANS  
APPROVED BY: Peter Brasier  
DATE: 18 March 2024

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B	COUNCIL COMMENTS	A.W.	NOV 2023
A	PRELIMINARY ISSUE	A.W.	OCT 2023
Rev	Amendments	Approved	Date



**spiire**  
16 BRIDGE STREET BENDIGO  
VICTORIA 3550 AUSTRALIA T 61 3 5448 2500  
spiire.com.au ABN 55 050 029 635

Designed  
J.CAPACETE  
Authorised  
A.WILKIE  
Checked  
B.IBBS  
Date  
MAR 2024

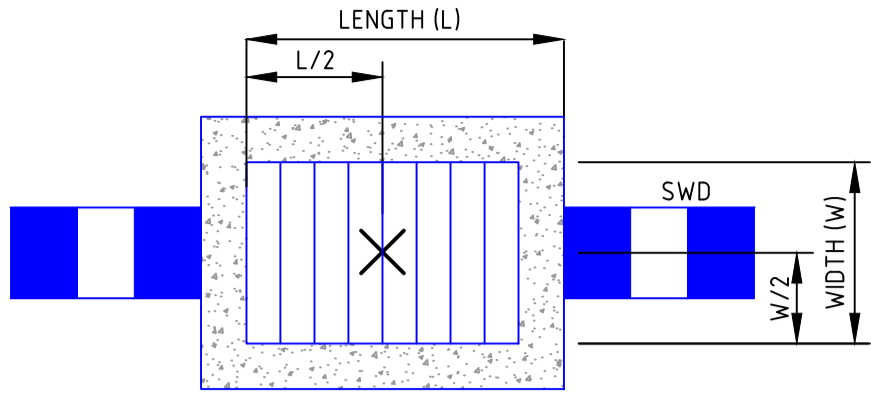
**MONSANTS ROAD  
14 LOT SUBDIVISION  
ROAD AND DRAINAGE  
DRAINAGE LONG SECTIONS - SHEET 1**  
CITY OF GREATER BENDIGO  
11 & 13 MONSANTS ROAD PTY LTD  
**PRELIMINARY** Drg No 321278-001CR600 Rev C

DRAINAGE NOTES

1. ALL DRAINAGE PIPES & PITS ARE TO BE AT 1m OFFSET TO PROPERTY BOUNDARIES UNLESS SHOWN OTHERWISE
2. THE CONTRACTOR MUST CONTACT SERVICING AUTHORITIES TO ARRANGE SERVICE LOCATIONS PRIOR TO COMMENCEMENT OF EXCAVATION FOR THIS PROJECT
3. PITS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT STANDARDS OF THE MUNICIPALITY AND/OR IDM. STEEL GRATES ARE TO BE HOT DIP GALVANISED AFTER MANUFACTURE. THE TOP OF ALL GRATES MUST BE APPROXIMATELY 150mm BELOW THE SURROUNDING SURFACE LEVEL. PROPERTY DRAINAGE CONNECTIONS ARE TO BE PROVIDED AS NECESSARY. ALL PITS IN ROAD RESERVE TO BE A MINIMUM OF CLASS C.
4. ALL SIDE ENTRY PITS IN ROLLOVER KERB & CHANNEL ARE TO BE CONSTRUCTED USING AN APPROVED ROLLOVER TYPE LINTEL OR A REINFORCED ROLLOVER PROFILE PIT LID. STANDARD SQUARE PROFILE PIT LIDS WITHOUT LINTEL ARE NOT ACCEPTABLE.
5. TRENCHES WITHIN PAVEMENT OR FOOTPATH AREAS ARE TO BE BACKFILLED WITH 3% CEMENT STABILISED CLASS 1 FCR. THE TRENCH IS TO BE BACKFILLED IN 150MM LAYERS AND CONSOLIDATED.
6. ALL PIPE STUBS ARE TO CONSIST OF ONE FULL PIPE LENGTH UNLESS SHOWN OTHERWISE.
7. FINISHED LEVELS FOR SIDE ENTRY PITS MUST BE DETERMINED FROM KERB LEVELS AND SHOULD BE SLOPED TO SUIT NATURESTRIPS ETC. THE FSLs INDICATED IN THE PIT SCHEDULE ARE NOT KERB LEVELS.
8. STEP IRONS ARE NOT REQUIRED IN DRAINAGE PITS.
9. CONCRETE PIPES ARE TO BE CLASS 2 RCP F RCP AND PVC PIPES ARE TO BE CLASS SN8 UNLESS OTHERWISE NOTED.
10. ALL EXCAVATIONS FOR DRAINAGE WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE VICTORIAN WORK COVER AUTHORITY.
11. REINFORCEMENT BARS SHALL COMPLY WITH AS1302/1991, GRADE 400Y. LAPS IN REINFORCEMENT BARS SHALL BE 300 MIN. AND CLEAR COVER 50 MIN.
12. CONCRETE SHALL BE NORMAL CLASS N32 STANDARD STRENGTH GRADE OR HIGHER. COMPLYING WITH THE REQUIREMENTS OF AS1379.
13. ENDWALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RELEVANT PROVISIONS OF AS3600.
14. DIRECT CONNECTION OF PVC HOUSE DRAIN TO RCP DRAINAGE TO BE CONSTRUCTED WITH "CONCONNECT" OR APPROVED EQUIVALENT FITTING. 150mmØ PVC PIPES ARE NOT TO BE DIRECTLY CONNECTED TO CONCRETE PIPES LESS THAN 450mmØ IN DIAMETER. WHERE FURTHER SUBDIVISION OF THE LOT CONCERNED IS NOT PRACTICAL A 100mmØ HOUSE CONNECTION PIPE MAY BE USED.
15. WHERE PVC HOUSE CONNECTIONS ARE MADE DIRECTLY TO PIPES, THE HOUSE CONNECTION IS TO BE RAISED TO SURFACE LEVEL WITHIN THE PROPERTY AND CAPPED AS PER SD520.
16. COMPACTION REQUIREMENTS - ANY BACKFILL WITHIN 1m OF A COUNCIL ASSET (EG FOOTPATH OR ROAD) IS REQUIRED TO BE FCR. ALTERNATIVELY OTHER FILL MATERIAL CAN BE USED PROVIDED COMPACTION TESTS ARE CARRIED OUT TO ENSURE 95% COMPACTION IS ACHIEVED. TESTS TO BE CARRIED OUT AT A MINIMUM OF 1 PER 60m OF TRENCH.
17. ALL PITS IN ROAD RESERVES ARE TO HAVE FIBERGLASS COVERS, PER C.O.G.B REQUIREMENTS

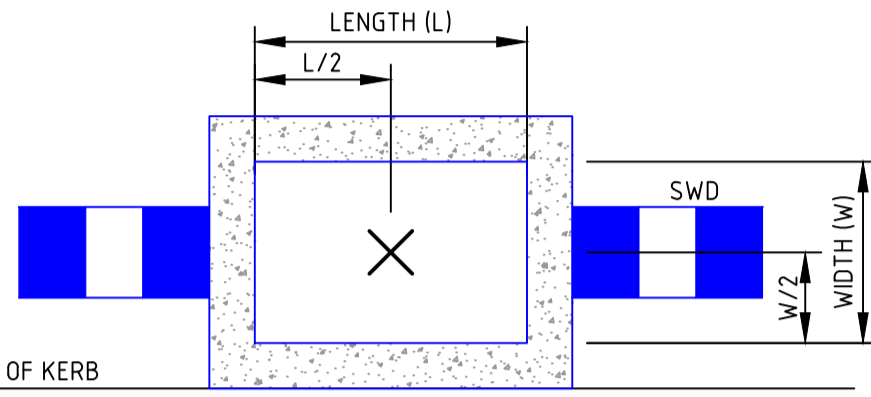
DRAINAGE PIT SCHEDULE

PIT		INTERNAL		INLET		OUTLET		PIT		REMARKS
NAME	TYPE	WIDTH	LENGTH	DIA	INV. LEVEL	DIA	INV. LEVEL	FS LEVEL	DEPTH	
1	ENDPIPE	0	0	375	197.612			198.506	0.894	CONSTRUCT PIPE OUTLET AS PER NCCMA STANDARD DRAWING "STORMWATER OUTLET"
2	JUNCTION PIT	600	900	375	197.727	375	197.707	198.856	1.149	REFER TO IDM SD426
3	GRATED ENTRY PIT	900	900			375	197.800	198.260	0.460	CONSTRUCT BASIN OUTLET PIT AS PER DETAILS ON SHEET 321278-001CR601
4	ENDWALL	0	0	450	197.800			198.250	0.450	CONCRETE ENDWALL TO SUIT 450mm DIAMETER PIPE
5	JUNCTION PIT	600	900	450	197.851	450	197.831	198.903	1.072	REFER TO IDM SD426
6	GRATED JUNCTION PIT	600	900	375	197.976	450	197.956	198.986	1.030	REFER TO IDM SD426, WITH GRATED PIT LID
7	GRATED JUNCTION PIT	600	900	375	198.098	375	198.078	198.898	0.820	REFER TO IDM SD426, WITH GRATED PIT LID
8	GRATED JUNCTION PIT	600	900	375	198.196	375	198.176	198.966	0.789	REFER TO IDM SD426, WITH GRATED PIT LID
9	GRATED JUNCTION PIT	600	900	300	198.294	375	198.274	199.062	0.787	REFER TO IDM SD426, WITH GRATED PIT LID
10	GRATED JUNCTION PIT	600	900	300	198.392	300	198.372	199.283	0.911	REFER TO IDM SD426, WITH GRATED PIT LID
11	GRATED JUNCTION PIT	600	900	225	198.491	300	198.471	199.349	0.879	REFER TO IDM SD426, WITH GRATED PIT LID
12	GRATED JUNCTION PIT	600	900			225	198.588	199.509	0.920	REFER TO IDM SD426, WITH GRATED PIT LID
13	ENDWALL	0	0	525	197.800			198.325	0.525	CONCRETE ENDWALL TO SUIT 525mm DIAMETER PIPE
14	GRATED JUNCTION PIT	900	900	525	197.885	525	197.865	198.695	0.830	REFER TO IDM SD426, WITH GRATED PIT LID
15	GRATED JUNCTION PIT	900	600	450	197.986	525	197.966	198.816	0.851	REFER TO IDM SD426, WITH GRATED PIT LID
16	SIDE ENTRY PIT	600	900	450	198.098	450	198.078	199.339	1.261	REFER TO IDM SD480
17	SIDE ENTRY PIT	600	900	450	198.218	450	198.198	199.452	1.254	REFER TO IDM SD480
18	SIDE ENTRY PIT	600	900	375	198.326	450	198.306	199.321	1.015	REFER TO IDM SD480
				300	198.326					
19	SIDE ENTRY PIT	600	900	225	198.542	375	198.522	199.426	0.903	REFER TO IDM SD480
				300	198.542					
20	GRATED JUNCTION PIT	600	900	225	198.610	225	198.590	199.877	1.287	REFER TO IDM SD426, WITH GRATED PIT LID
21	GRATED JUNCTION PIT	600	900			225	198.803	200.389	1.586	REFER TO IDM SD426, WITH GRATED PIT LID
22	GRATED ENTRY PIT	750	1000			300	198.588	199.311	0.723	REFER TO VICROADS SD1281, PITS ARE DRAWN AS SD1281 (IE. IN KERB)
23	GRATED ENTRY PIT	750	1000			300	198.365	199.206	0.841	REFER TO VICROADS SD1281, PITS ARE DRAWN AS SD1281 (IE. IN KERB)
24	HEADWALL			1200x300	199.400			199.700	0.300	PROVIDE WINGWALL TO SUIT 1200 x 300 RCBC, GENERALLY PER VICROADS SD1971
25	HEADWALL					1200x300	199.458	199.758	0.300	PROVIDE WINGWALL TO SUIT 1200 x 300 RCBC, GENERALLY PER VICROADS SD1971



TYPICAL DRAINAGE PIT SETOUT POINT 'A'

(IDM SD426)  
(NOT TO SCALE)



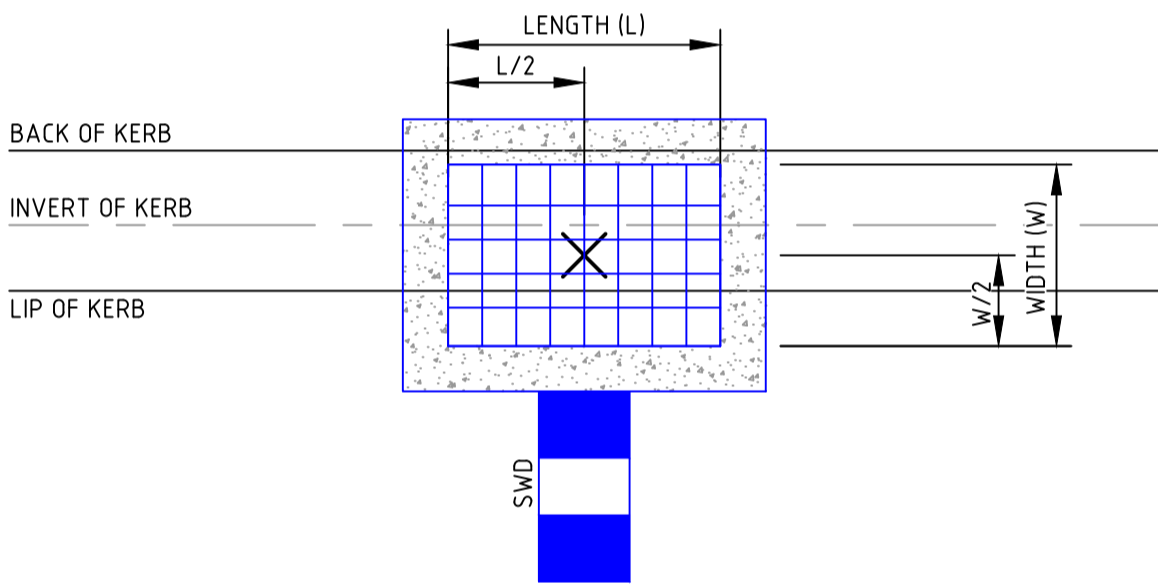
BACK OF KERB

INVERT OF KERB

LIP OF KERB

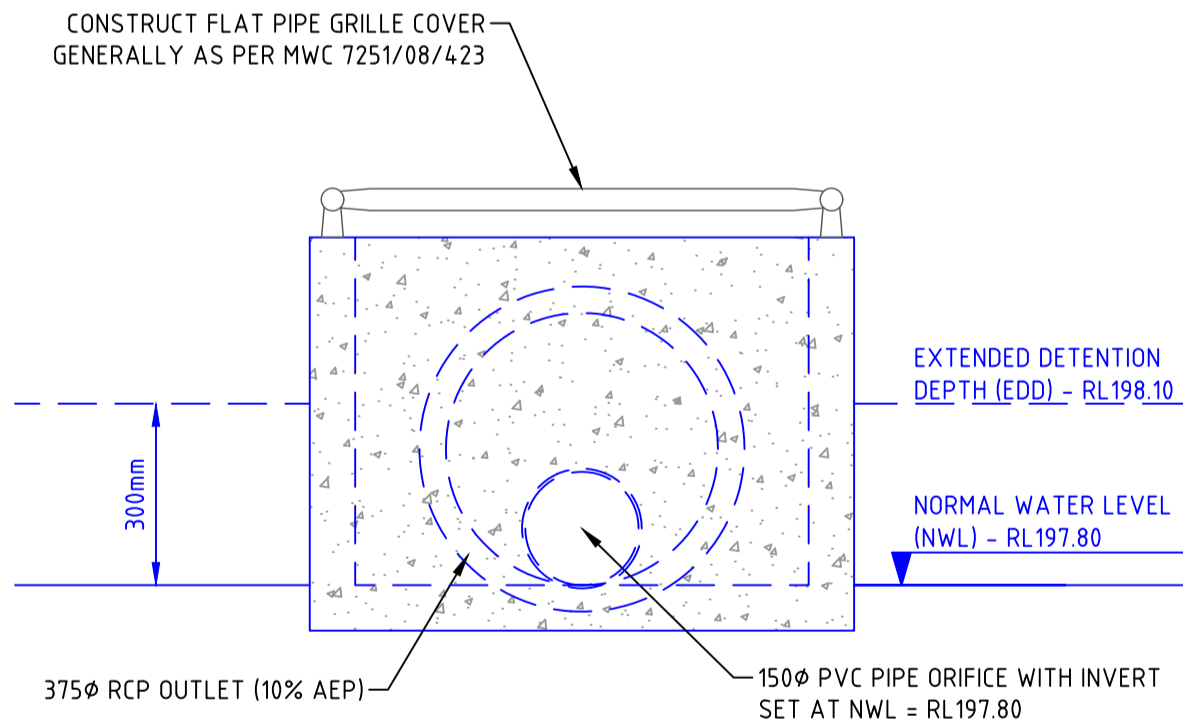
TYPICAL DRAINAGE PIT SETOUT POINT 'B'

(IDM SD480)  
NOT TO SCALE



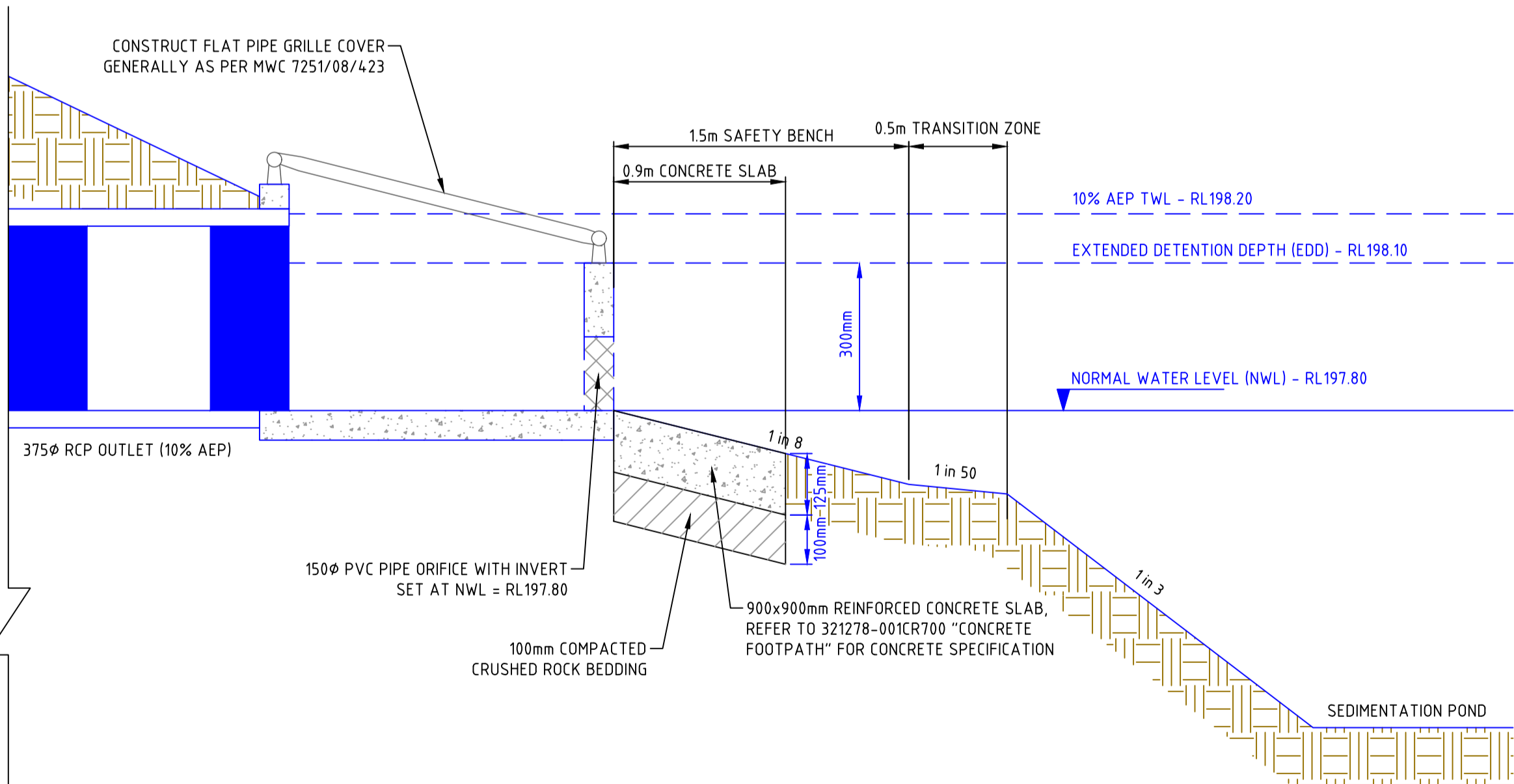
TYPICAL DRAINAGE PIT SETOUT POINT 'C'

(VICROADS SD1281)  
(NOT TO SCALE)



PIT 3 - GRATED ENTRY PIT WITH PVC PIPE OPENING

SECTION 2-2  
(NOT TO SCALE)



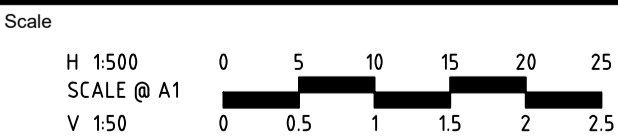
PIT 3 - GRATED ENTRY PIT WITH PVC PIPE OPENING

SECTION 3-3  
(NOT TO SCALE)

GREATER BENDIGO CITY COUNCIL  
ENGINEERING PLANS  
APPROVED BY: Peter Brasier  
DATE: 18 March 2024

file name 321278-001CR600.dwg, layout name CS601, plotted by John Capacete, file location \\spire\Bendigo\Draws\321278\001CR600.dwg, plot date 18/03/2024, 10:42 AM, Sheet 9 of 17, Sheets

C	AMENDED AS PER COUNCIL COMMENTS	A.W.	MAR 2024	
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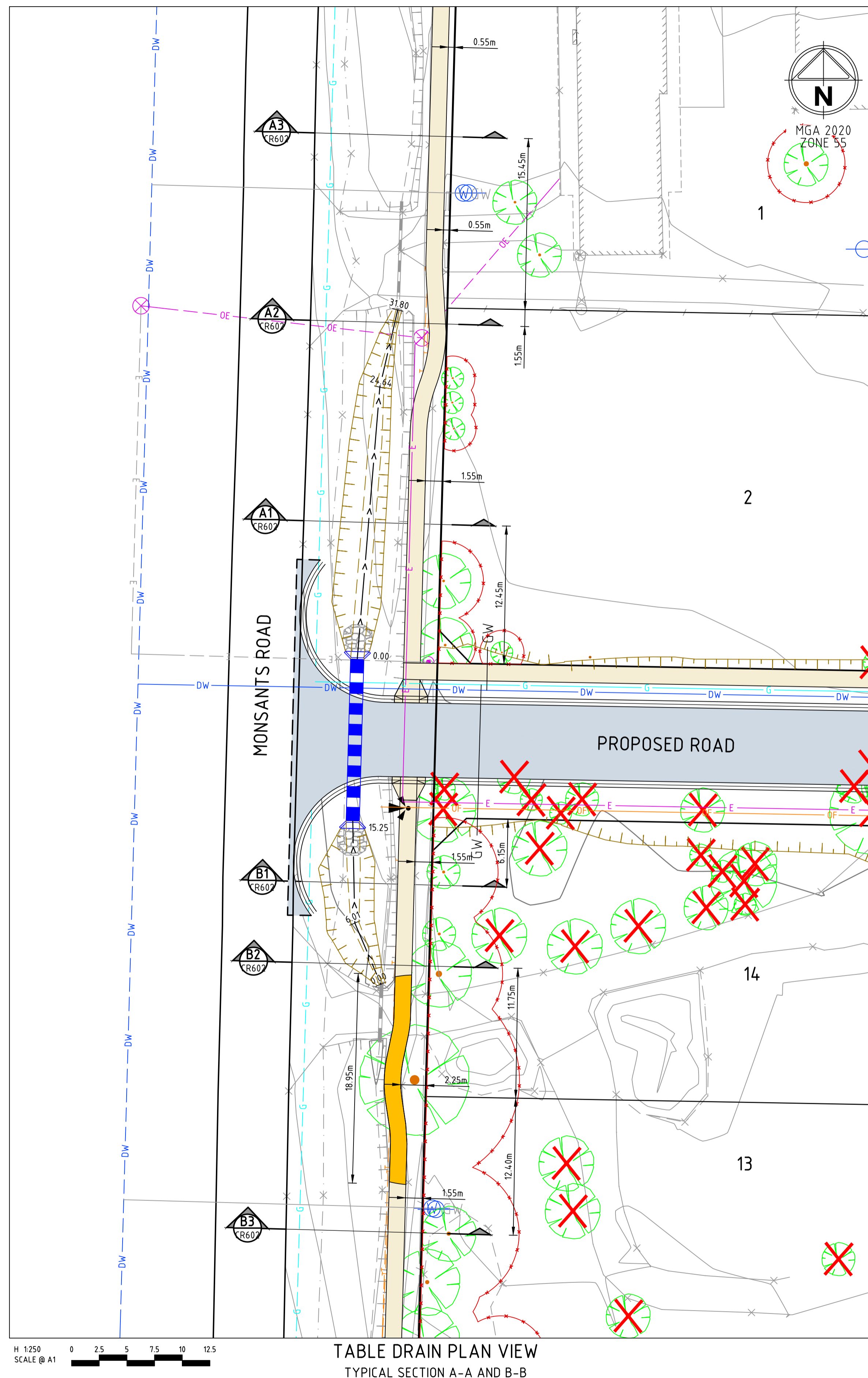
16 BRIDGE STREET BENDIGO  
VICTORIA 3550 AUSTRALIA T 61 3 5448 2500  
spiire.com.au ABN 55 050 029 635

Designed  
J.CAPACETE  
Authorised  
A.WILKIE

Checked  
B.IBBS  
Date  
MAR 2024

MONSANTS ROAD  
14 LOT SUBDIVISION  
ROAD AND DRAINAGE  
DRAINAGE LONG SECTIONS - SHEET 2  
CITY OF GREATER BENDIGO  
11 & 13 MONSANTS ROAD PTY LTD

PRELIMINARY Drg No 321278-001CR601 Rev C



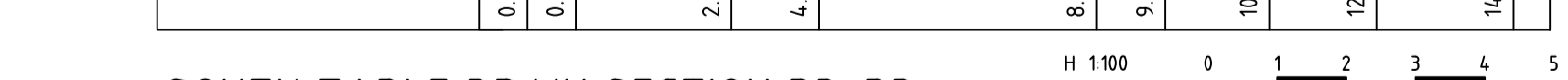
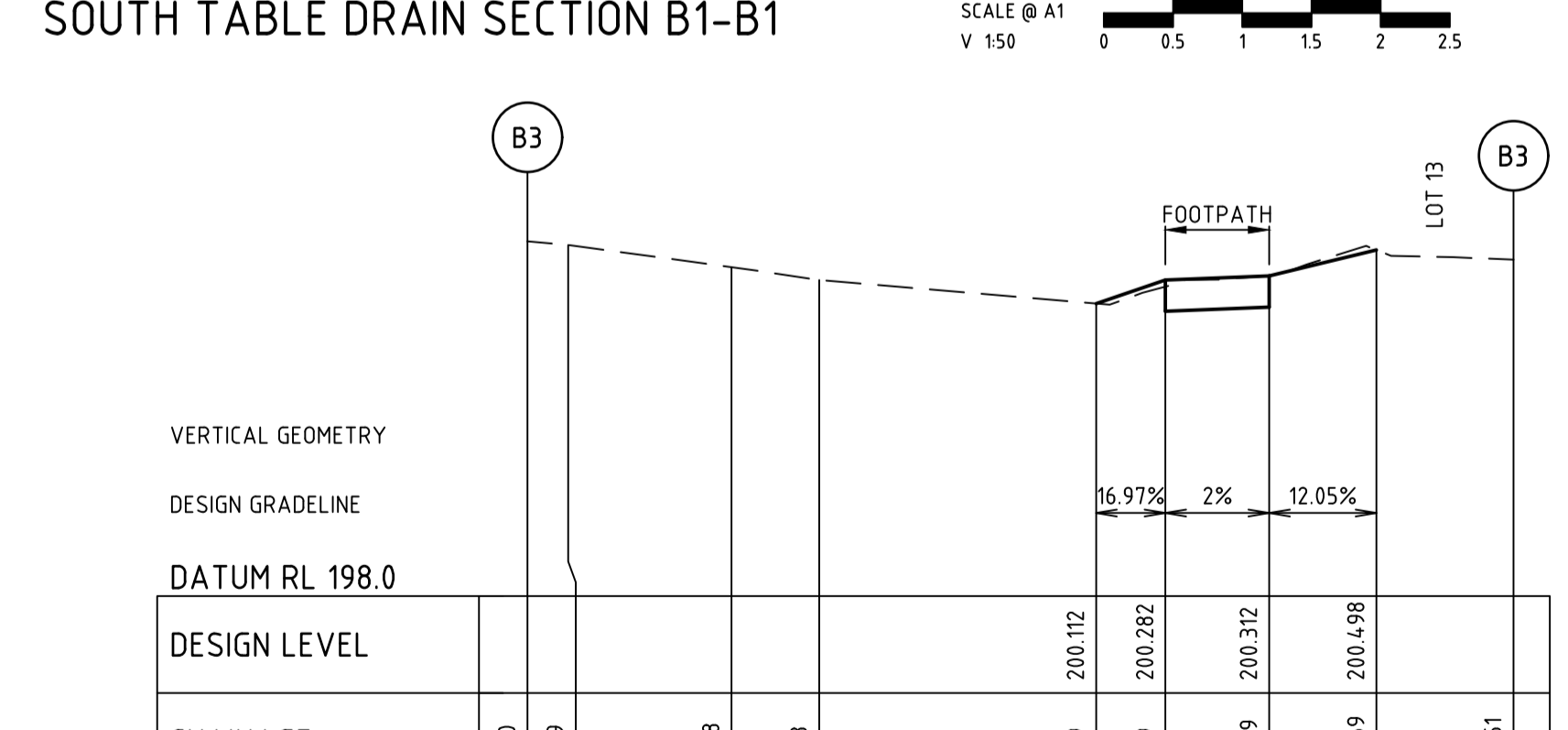
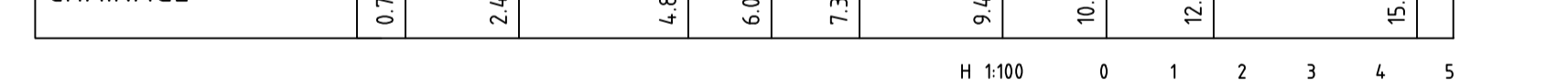
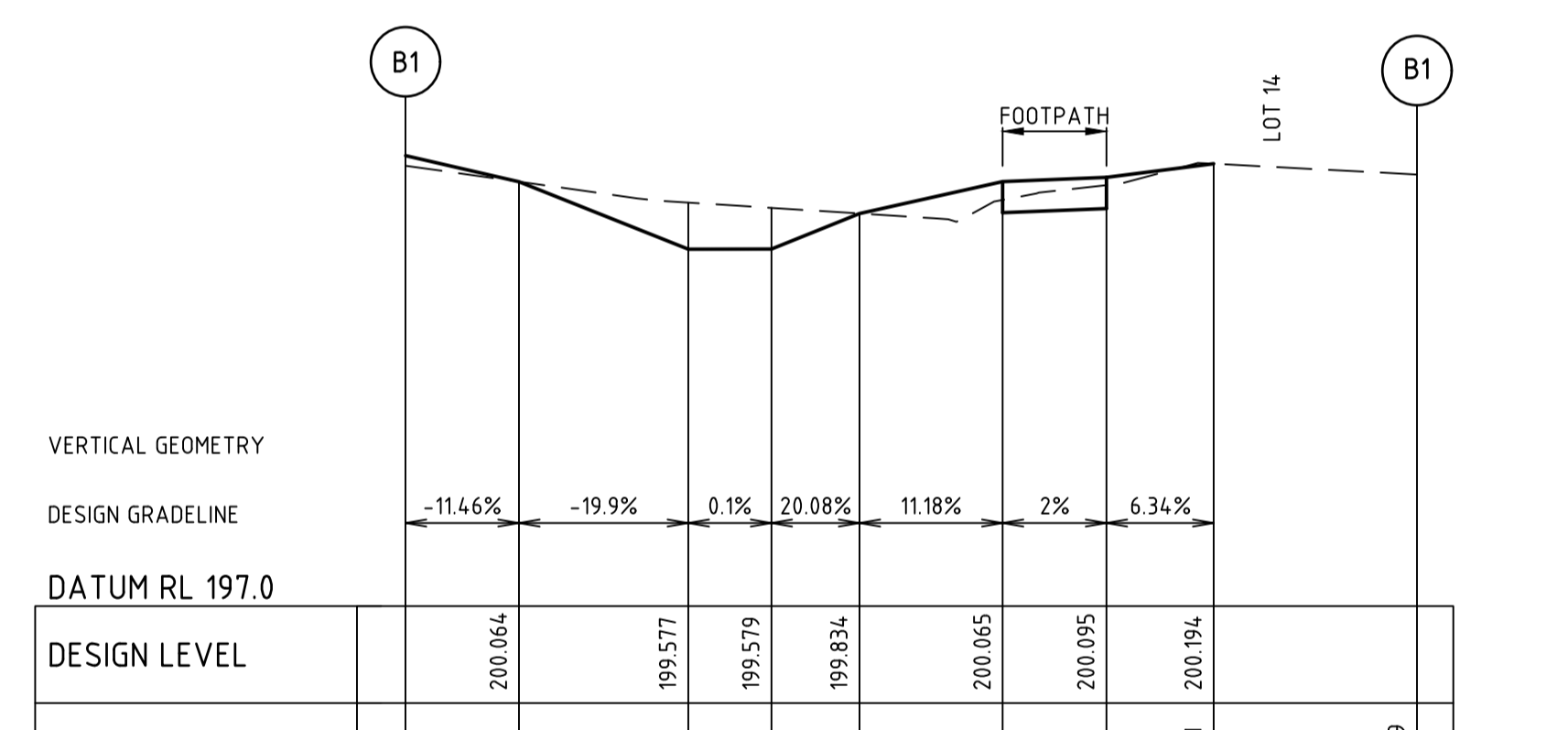
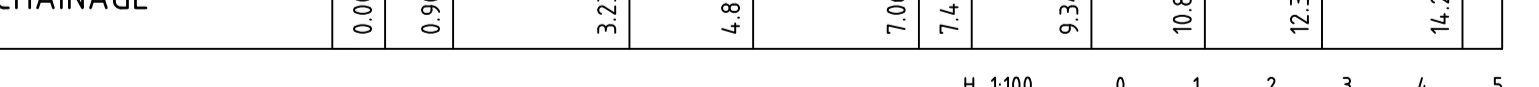
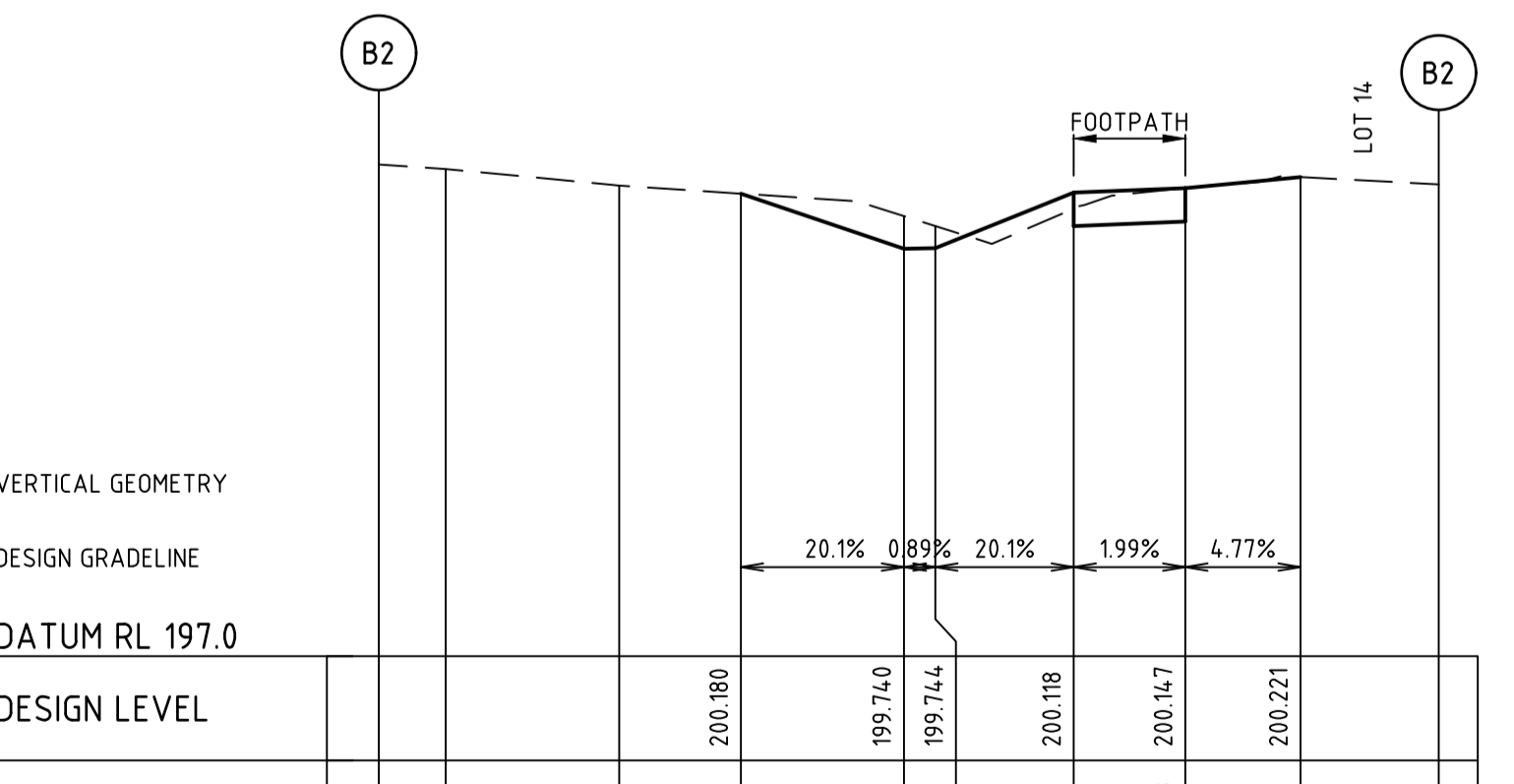
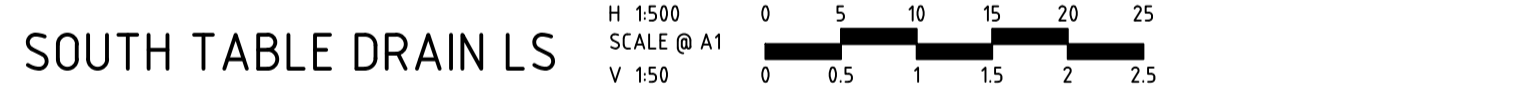
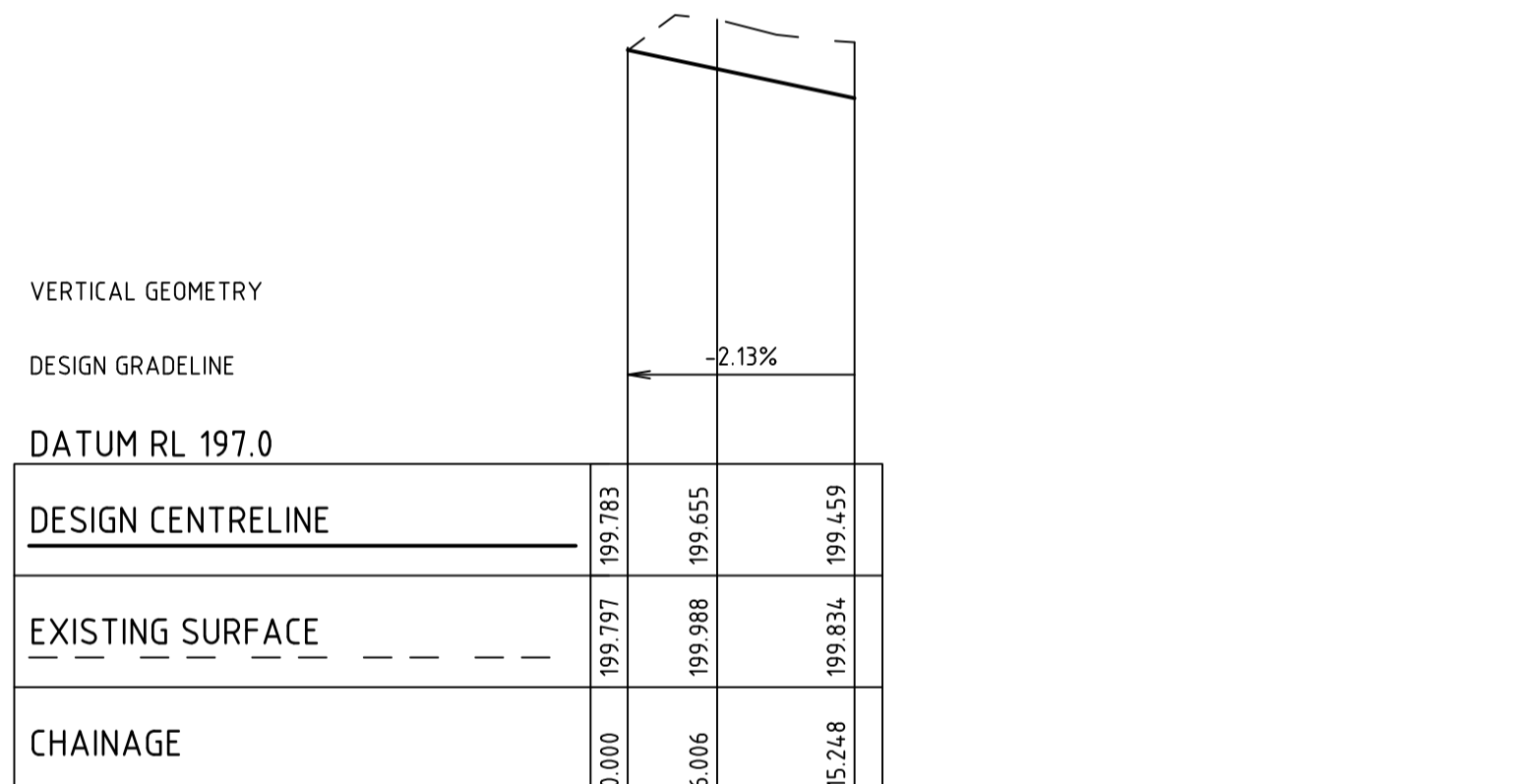
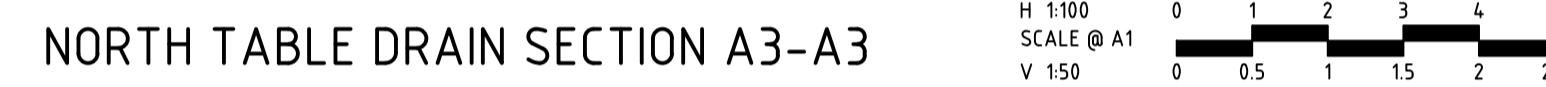
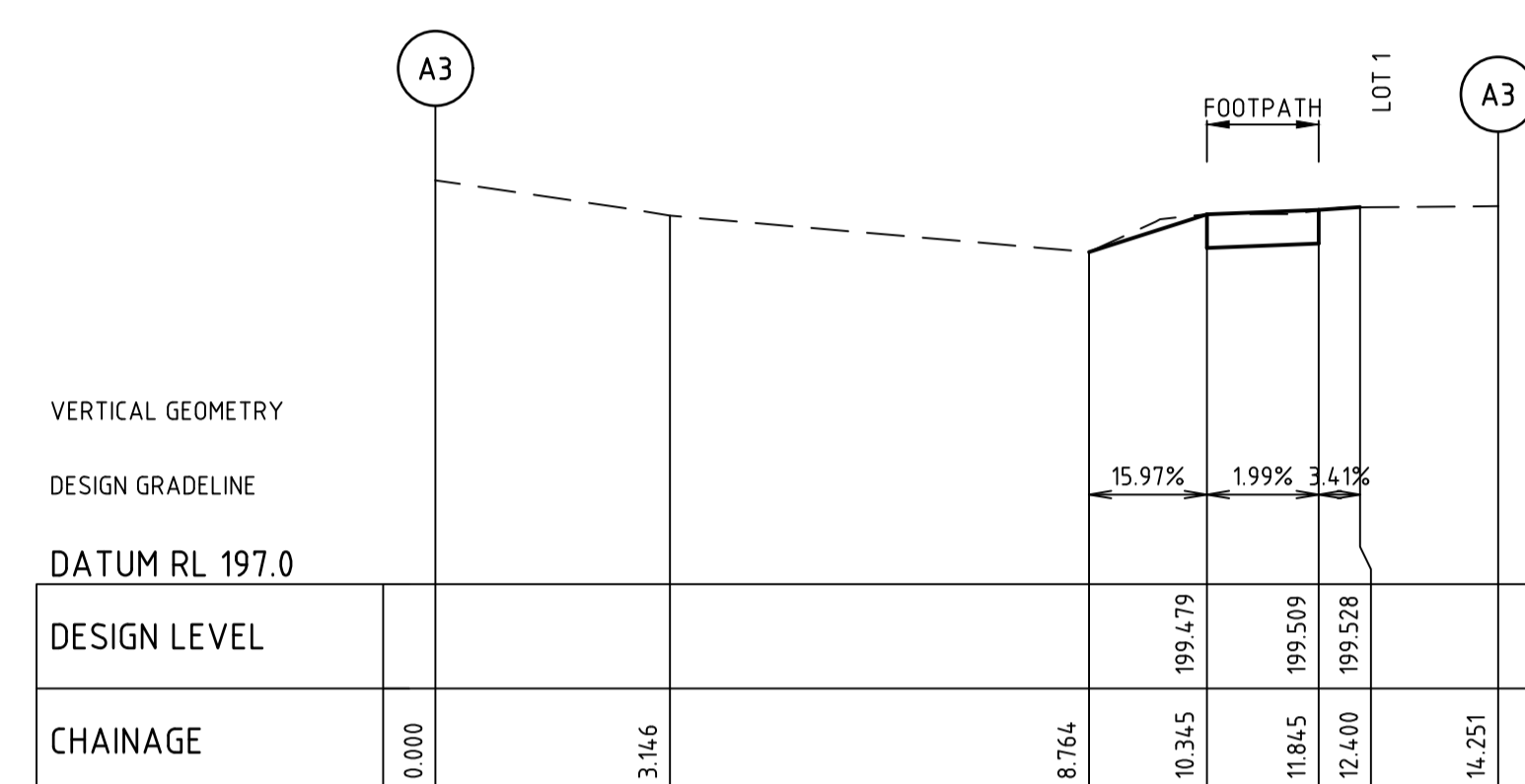
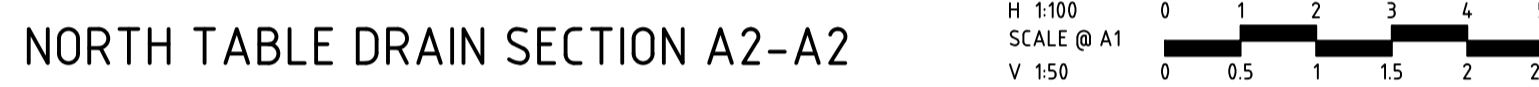
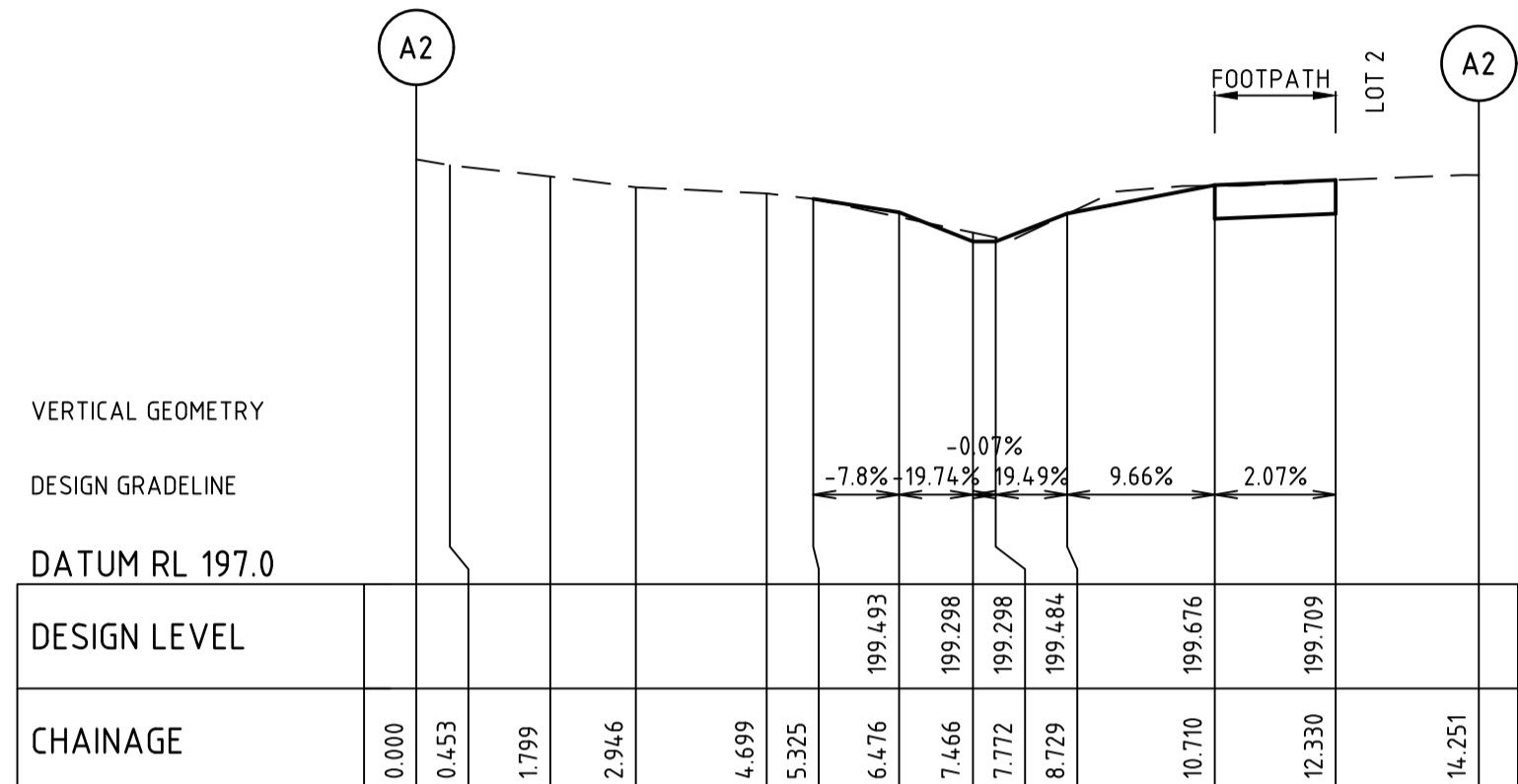
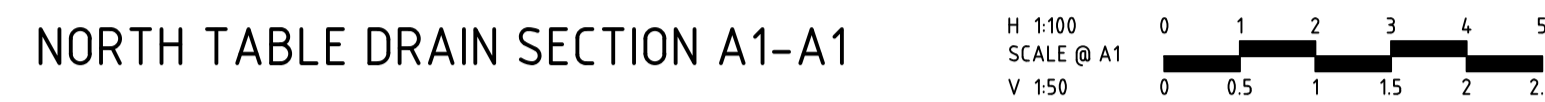
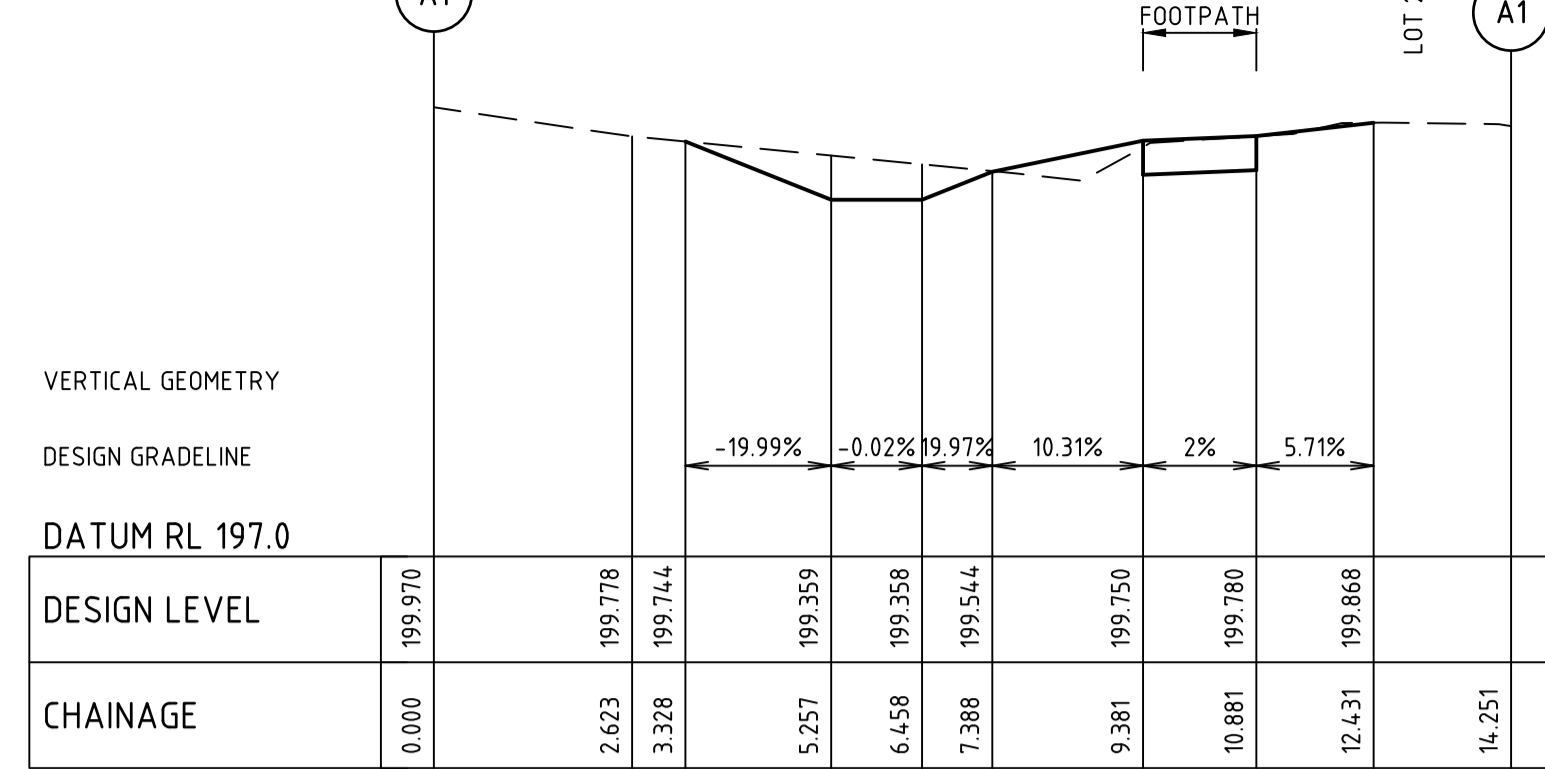
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DESIGN GRADELINE

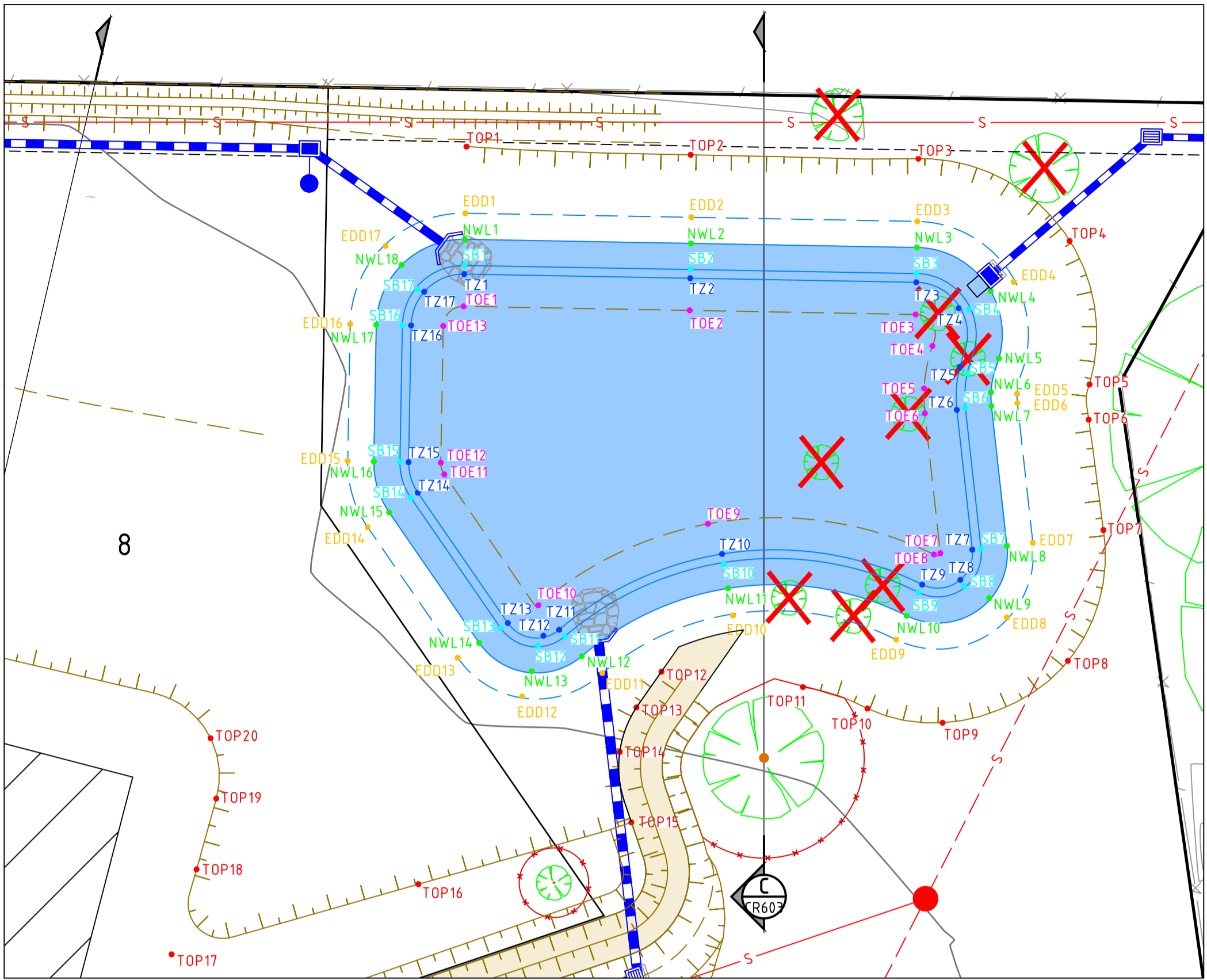
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-0.33%

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20.000	199.550	199.333
24.643	199.517	199.318
31.800	199.294	199.294
31.824	199.300	

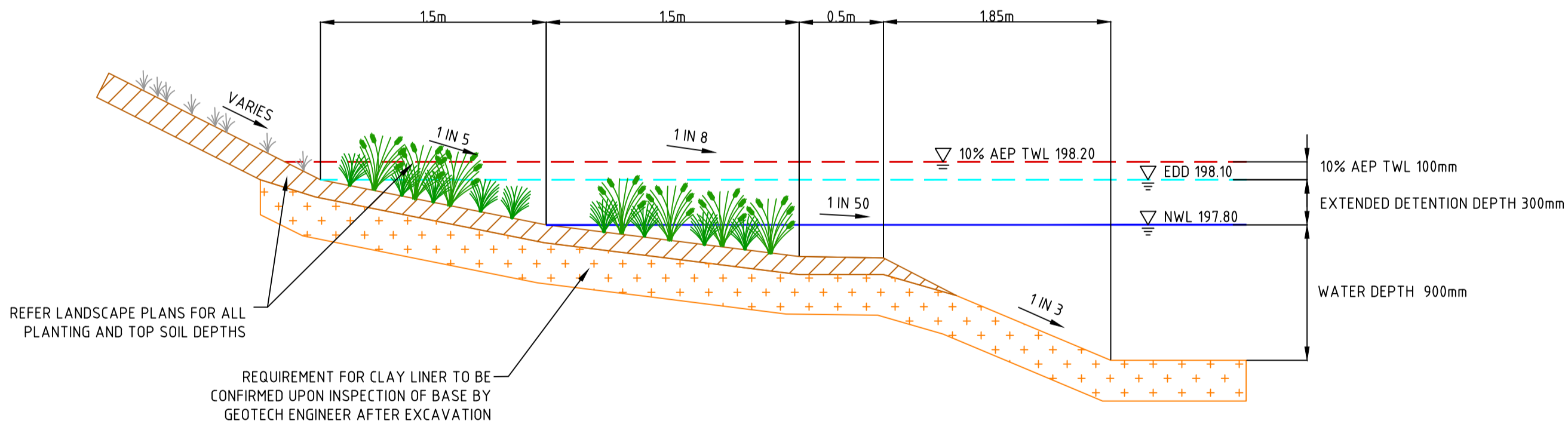


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SEDIMENT BASIN PLAN VIEW  
TYPICAL SECTION C-C

H 1:250  
SCALE @ A1  
0 2.5 5 7.5 10 12.5



RETARDING BASIN TYPICAL DETAILS  
PROPOSED SEDIMENT BASIN  
NOT TO SCALE

GREATER BENDIGO CITY COUNCIL  
ENGINEERING PLANS  
APPROVED BY: Peter Brasier  
DATE: 18 March 2024

SEDIMENT BASIN TOTAL VOLUME

NWL	4.47m <sup>3</sup>
EDD	695m <sup>3</sup>
10% AEP TWL	787m <sup>3</sup>

TOP OF SED BASIN (TOP)

Point No	Easting	Northing	RL
TOP1	250162-319	5929829-972	198-866
TOP2	250175-207	5929829-499	198-818
TOP3	250188-295	5929829-278	198-821
TOP4	250196-989	5929824-551	198-878
TOP5	250198-126	5929816-302	198-883
TOP6	250198-082	5929814-281	198-894
TOP7	250198-925	5929807-940	198-922
TOP8	250196-886	5929800-425	198-942
TOP9	250189-687	5929796-865	198-947
TOP10	250185-365	5929797-683	198-957
TOP11	250181-657	5929798-916	198-954
TOP12	250173-523	5929799-803	198-652
TOP13	250172-087	5929797-745	198-700
TOP14	250171-130	5929795-190	198-756
TOP15	250171-796	5929791-143	198-808
TOP16	250159-558	5929787-590	199-076
TOP17	250145-376	5929783-560	199-124
TOP18	250146-806	5929788-442	199-085
TOP19	250147-940	5929792-510	199-067
TOP20	250147-611	5929795-978	199-055

EXTENDED DETENTION DEPTH (EDD)

Point No	Easting	Northing	RL
EDD1	250162-250	5929826-141	198-100
EDD2	250175-240	5929825-907	198-100
EDD3	250188-231	5929825-674	198-100
EDD4	250193-782	5929822-197	198-100
EDD5	250193-963	5929815-771	198-100
EDD6	250193-981	5929815-231	198-100
EDD7	250194-872	5929807-201	198-100
EDD8	250193-376	5929802-922	198-100
EDD9	250187-021	5929801-638	198-100
EDD10	250177-639	5929803-015	198-100
EDD11	250170-124	5929799-722	198-100
EDD12	250165-521	5929798-381	198-100
EDD13	250161-816	5929800-603	198-100
EDD14	250156-643	5929808-099	198-100
EDD15	250155-493	5929811-908	198-100
EDD16	250155-634	5929819-759	198-100
EDD17	250157-673	5929824-264	198-100

NORMAL WATER LEVEL (NWL)

Point No	Easting	Northing	RL
NWL1	250162-223	5929824-641	197-800
NWL2	250175-214	5929824-407	197-800
NWL3	250188-204	5929824-174	197-800
NWL4	250192-451	5929822-661	197-800
NWL5	250192-920	5929817-796	197-800
NWL6	250192-465	5929815-857	197-800
NWL7	250192-490	5929815-065	197-800
NWL8	250193-381	5929807-036	197-800
NWL9	250192-365	5929804-034	197-800
NWL10	250187-620	5929803-015	197-800
NWL11	250177-356	5929804-591	197-800
NWL12	250168-950	5929800-694	197-800
NWL13	250166-073	5929799-823	197-800
NWL14	250163-051	5929801-455	197-800
NWL15	250155-877	5929808-951	197-800
NWL16	250156-993	5929811-881	197-800
NWL17	250157-134	5929819-732	197-800
NWL18	250158-599	5929823-178	197-800

SAFETY BATTER (SB)

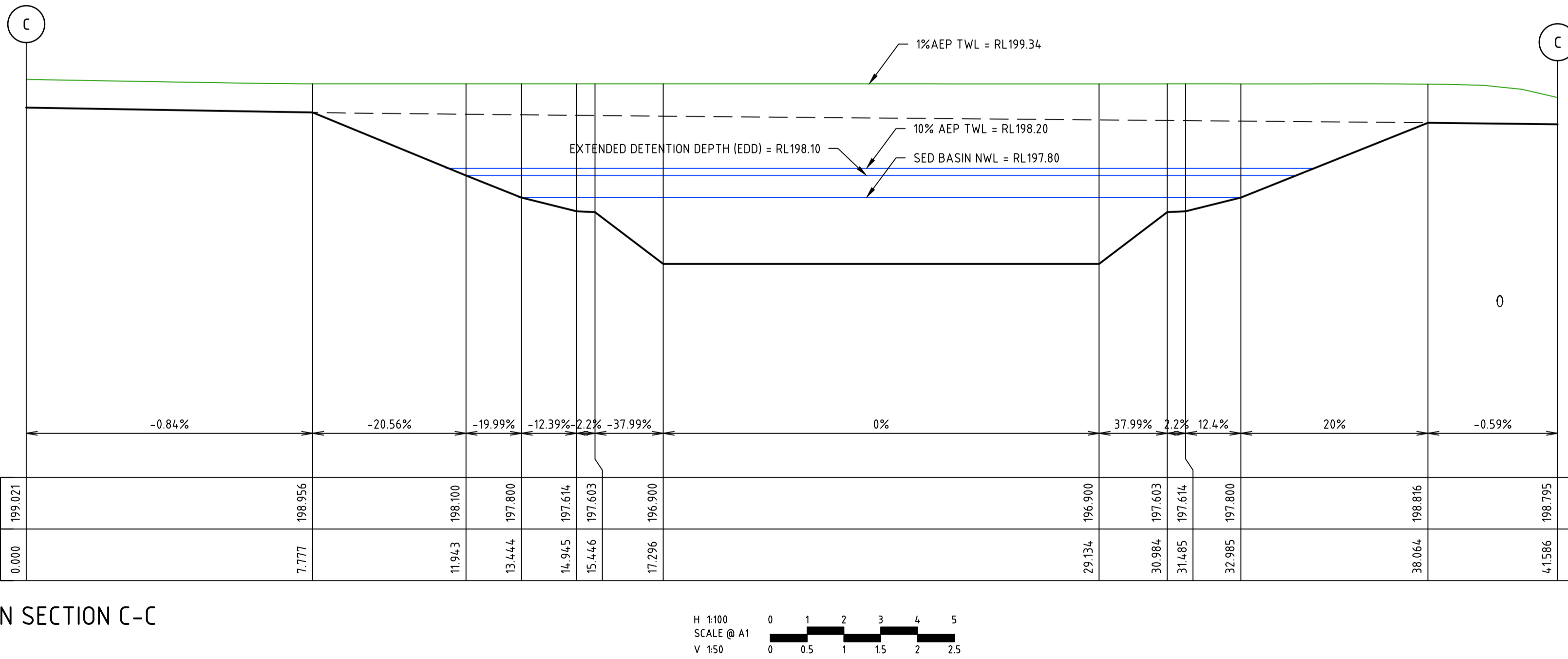
Point No	Easting	Northing	RL
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SB2	250175-187	5929822-908	197-614
SB3	250188-177	5929822-674	197-614
SB4	250191-194	5929820-616	197-614
SB5	250191-096	5929816-943	197-614
SB6	250190-993	5929814-954	197-614
SB7	250191-890	5929806-870	197-614
SB8	250190-937	5929804-718	197-614
SB9	250188-289	5929804-358	197-614
SB10	250177-109	5929805-994	197-614
SB11	250167-972	5929801-831	197-614
SB12	250166-428	5929801-306	197-614
SB13	250164-285	5929802-307	197-614
SB14	250159-112	5929809-803	197-614
SB15	250158-493	5929811-854	197-614
SB16	250158-634	5929819-705	197-614
SB17	250159-488	5929821-780	197-614

TRANSITION ZONE (TZ)

Point No	Easting	Northing	RL
TZ1	250162-187	5929822-641	197-603
TZ2	250175-178	5929822-408	197-603
TZ3	250188-168	5929822-174	197-603
TZ4	250190-607	5929820-686	197-603
TZ5	250190-665	5929817-301	197-603
TZ6	250190-502	5929814-845	197-603
TZ7	250191-393	5929806-815	197-603
TZ8	250190-706	5929805-075	197-603
TZ9	250188-513	5929804-805	197-603
TZ10	250177-010	5929806-561	197-603
TZ11	250167-646	5929802-210	197-603
TZ12	250166-738	5929801-865	197-603
TZ13	250164-697	5929802-591	197-603
TZ14	250159-523	5929810-087	197-603
TZ15	250158-993	5929811-845	197-603
TZ16	250159-134	5929819-696	197-603
TZ17	250159-891	5929821-635	197-603

TOE OF SED BASIN (TOE)

Point No	Easting	Northing	RL
TOE1	250162-154	5929820-792	196-900
TOE2	250175-144	5929820-558	196-900
TOE3	250188-134	5929820-324	196-900
TOE4	250189-097	5929818-515	196-900
TOE5	250188-621	5929816-069	196-900
TOE6	250188-663	5929814-641	196-900
TOE7	250189-554	5929806-611	196-900
TOE8	250189-186	5929806-536	196-900
TOE9	250176-198	5929808-297	196-900
TOE10	250166-440	5929803-613	196-900
TOE11	250161-046	5929811-138	196-900
TOE12	250160-842	5929811-812	196-900
TOE13	250160-984	5929819-663	196-900



SEDIMENT BASIN SECTION C-C

H 1:100  
SCALE @ A1  
V 1:50  
0 0.5 1 1.5 2 2.5

Rev	Amendments	Approved	Date
C	AMENDED AS PER COUNCIL COMMENTS	A.W.	MAR 2024
B	COUNCIL COMMENTS	A.W.	NOV 2023
A	PRELIMINARY ISSUE	A.W.	OCT 2023

Scale  
AS SHOWN



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VICTORIA 3550 AUSTRALIA T 61 3 5448 2500  
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Designed  
J.CAPACETE  
Authorised  
A.WILKIE

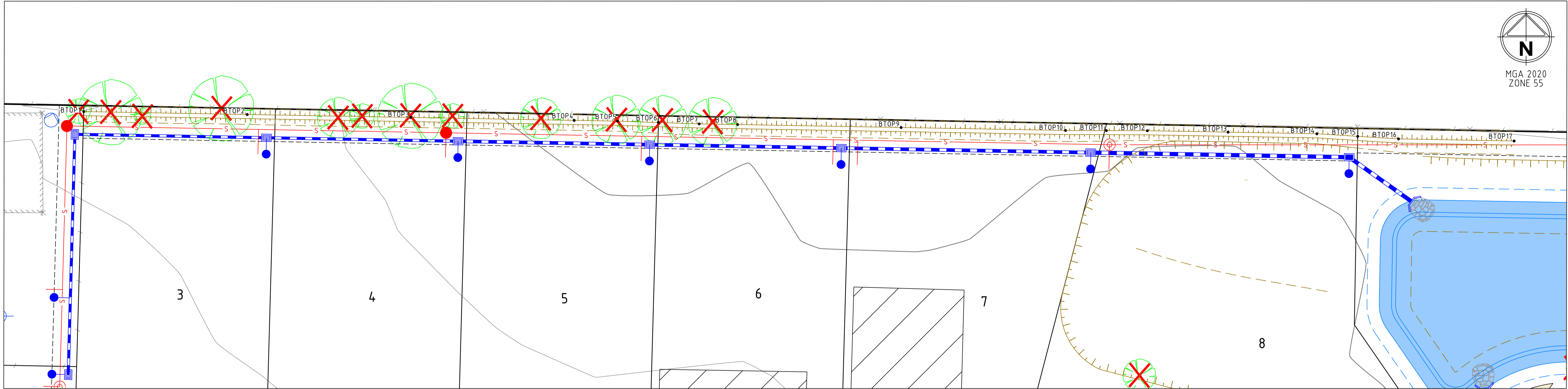
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Date  
MAR 2024

**MONSANTS ROAD  
14 LOT SUBDIVISION  
ROAD AND DRAINAGE  
DRAINAGE LONG SECTIONS - SHEET 4**  
CITY OF GREATER BENDIGO  
11 & 13 MONSANTS ROAD PTY LTD

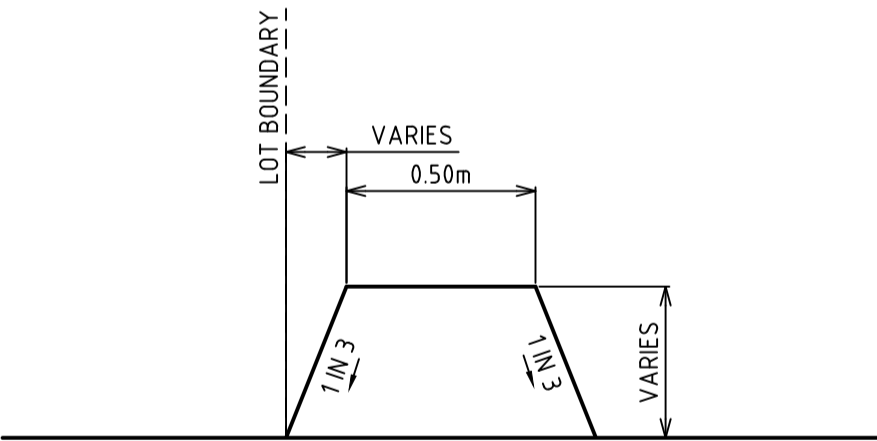
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Rev  
C

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BUND WALL PLAN VIEW  
TYPICAL SECTION E-E  
H 1:250  
SCALE @ A1



PROPOSED BUND WALL  
(BACK OF LOT 3 - LOT 8)  
NOT TO SCALE

BUND TOP (BTOP)

Point No	Easting	Northing	RL	ESL	HEIGHT
BTOP1	249998.529	5929835.437	199.605	199.355	0.25
BTOP2	250018.526	5929835.077	199.538	199.288	0.25
BTOP3	250038.522	5929834.717	199.360	199.110	0.25
BTOP4	250058.519	5929834.358	199.212	198.962	0.25
BTOP5	250063.821	5929834.262	199.191	198.941	0.25
BTOP6	250068.819	5929834.097	199.222	198.951	0.27
BTOP7	250073.817	5929833.932	199.259	198.963	0.30
BTOP8	250078.513	5929833.848	199.270	198.975	0.30
BTOP9	250098.510	5929833.488	199.152	198.852	0.30
BTOP10	250118.623	5929833.127	199.263	198.963	0.30
BTOP11	250123.623	5929833.112	199.241	198.971	0.27
BTOP12	250128.624	5929833.097	199.219	198.969	0.25
BTOP13	250138.504	5929832.919	199.223	198.973	0.25
BTOP14	250149.367	5929832.724	199.190	198.940	0.25
BTOP15	250154.362	5929832.409	199.246	198.927	0.32
BTOP16	250159.357	5929832.094	199.277	198.877	0.40
BTOP17	250173.492	5929831.840	199.198	198.798	0.40

GREATER BENDIGO CITY COUNCIL  
ENGINEERING PLANS  
APPROVED BY: Peter Brasier  
DATE: 18 March 2024

Rev	Amendments	Approved	Date
C	AMENDED AS PER COUNCIL COMMENTS	A.W.	MAR 2024
B	COUNCIL COMMENTS	A.W.	NOV 2023
A	PRELIMINARY ISSUE	A.W.	OCT 2023

Scale	AS SHOWN
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ISO 9001  
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ISO 45001  
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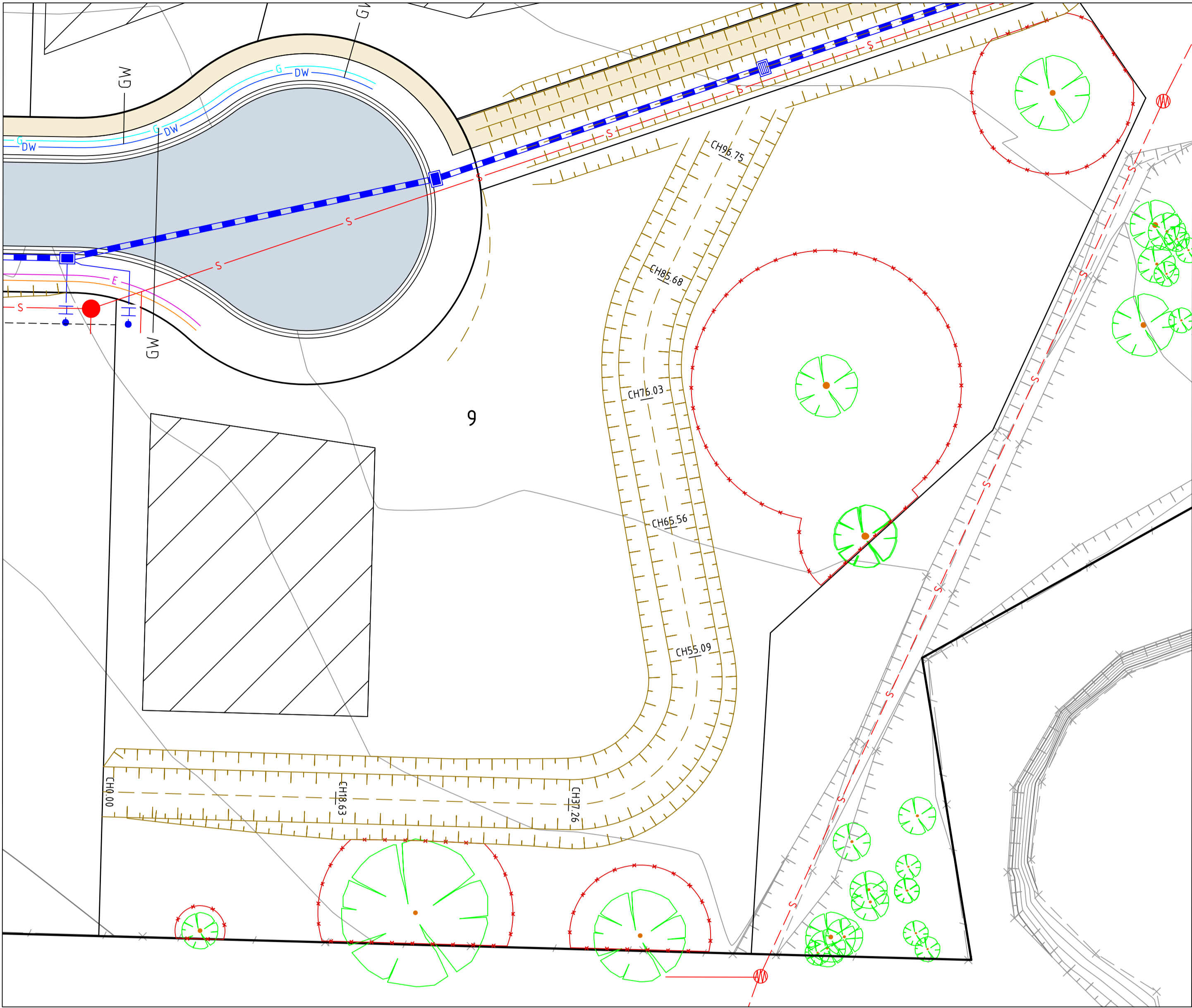
16 BRIDGE STREET BENDIGO  
VICTORIA 3550 AUSTRALIA T 61 3 5448 2500  
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Designed J.CAPACETE	Checked B.IBBS
Authorised A.WILKIE	Date MAR 2024

**MONSANTS ROAD  
14 LOT SUBDIVISION  
ROAD AND DRAINAGE  
DRAINAGE LONG SECTIONS - SHEET 5  
CITY OF GREATER BENDIGO  
11 & 13 MONSANTS ROAD PTY LTD**

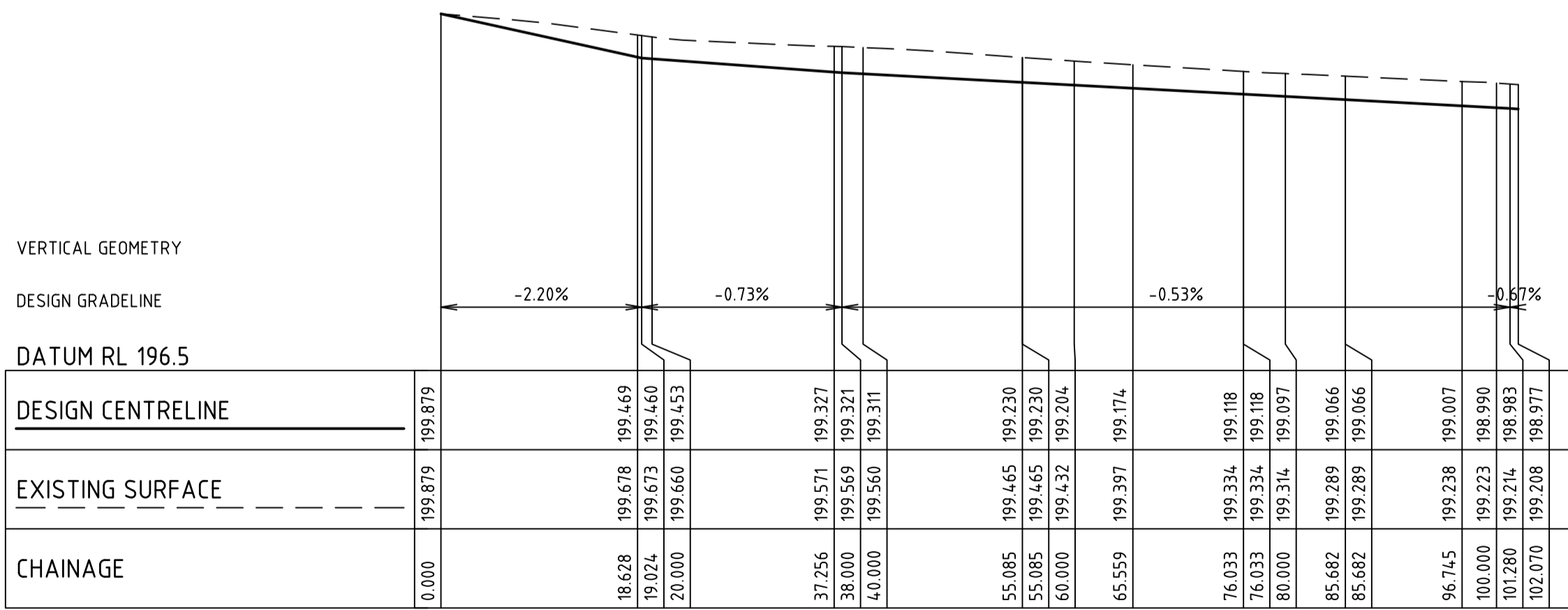
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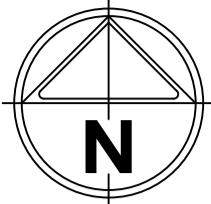
SWALE DRAIN PLAN VIEW

H 1:250  
SCALE @ A1



SWALE DRAIN LS

H 1:500  
SCALE @ A1  
V 1:50



MGA 2020  
ZONE 55

DATUM R.L.198.0

DESIGN SURFACE LEVEL					
EXISTING SURFACE LEVEL					
OFFSET					

SWALE DRAIN

CH 55.09

DATUM R.L.198.0

DESIGN SURFACE LEVEL					
EXISTING SURFACE LEVEL					
OFFSET					

SWALE DRAIN

CH 37.26

DATUM R.L.198.0

DESIGN SURFACE LEVEL					
EXISTING SURFACE LEVEL					
OFFSET					

SWALE DRAIN

CH 18.63

DATUM R.L.199.0

DESIGN SURFACE LEVEL					
EXISTING SURFACE LEVEL					
OFFSET					

SWALE DRAIN

CH 0.00

H 1:100  
SCALE @ A1  
V 1:50

GREATER BENDIGO CITY COUNCIL  
ENGINEERING PLANS

APPROVED BY: Peter Brasier

DATE: 18 March 2024

DATUM R.L.198.0

DESIGN SURFACE LEVEL					
EXISTING SURFACE LEVEL					
OFFSET					

SWALE DRAIN

CH 96.75

DATUM R.L.198.0

DESIGN SURFACE LEVEL					
EXISTING SURFACE LEVEL					
OFFSET					

SWALE DRAIN

CH 85.68

DATUM R.L.198.0

DESIGN SURFACE LEVEL					
EXISTING SURFACE LEVEL					
OFFSET					

SWALE DRAIN

CH 76.03

DATUM R.L.198.0

DESIGN SURFACE LEVEL					
EXISTING SURFACE LEVEL					
OFFSET					

SWALE DRAIN

CH 65.56

H 1:100  
SCALE @ A1  
V 1:50

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Designed  
J.CAPACETE

Authorised  
A.WILKIE

Checked  
B.IBBS

Date  
MAR 2024

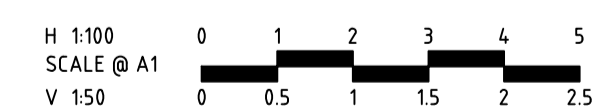
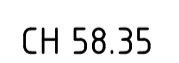
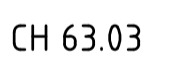
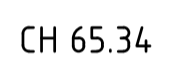
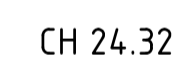
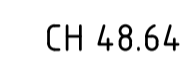
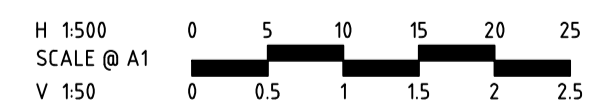
**MONSANTS ROAD  
14 LOT SUBDIVISION  
ROAD AND DRAINAGE  
DRAINAGE LONG SECTIONS - SHEET 6**  
CITY OF GREATER BENDIGO  
11 & 13 MONSANTS ROAD PTY LTD

**PRELIMINARY** Drg No 321278-001CR605

Rev  
**C**



H 1:250  
SCALE @ A1



C	AMENDED AS PER COUNCIL COMMENTS	A.W.	MAR 2024
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A	PRELIMINARY ISSUE	A.W.	OCT 2023
Rev	Amendments	Approved	Date

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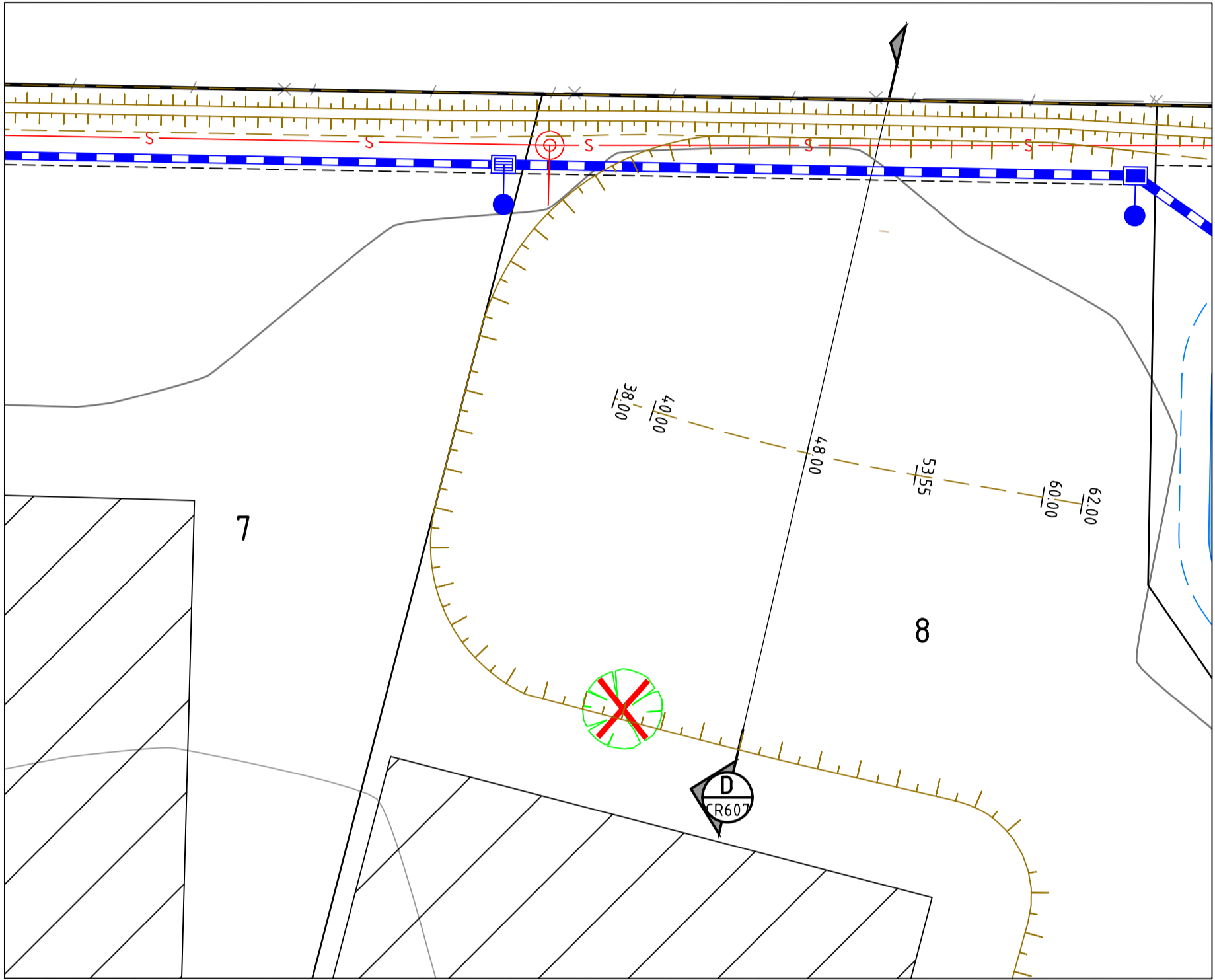
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B.IBBS  
Date  
MAR 2024

**MONSANTS ROAD**  
**14 LOT SUBDIVISION**  
**ROAD AND DRAINAGE**  
**DRAINAGE LONG SECTIONS - SHEET 7**  
**CITY OF GREATER BENDIGO**  
**11 & 13 MONSANTS ROAD PTY LTD**

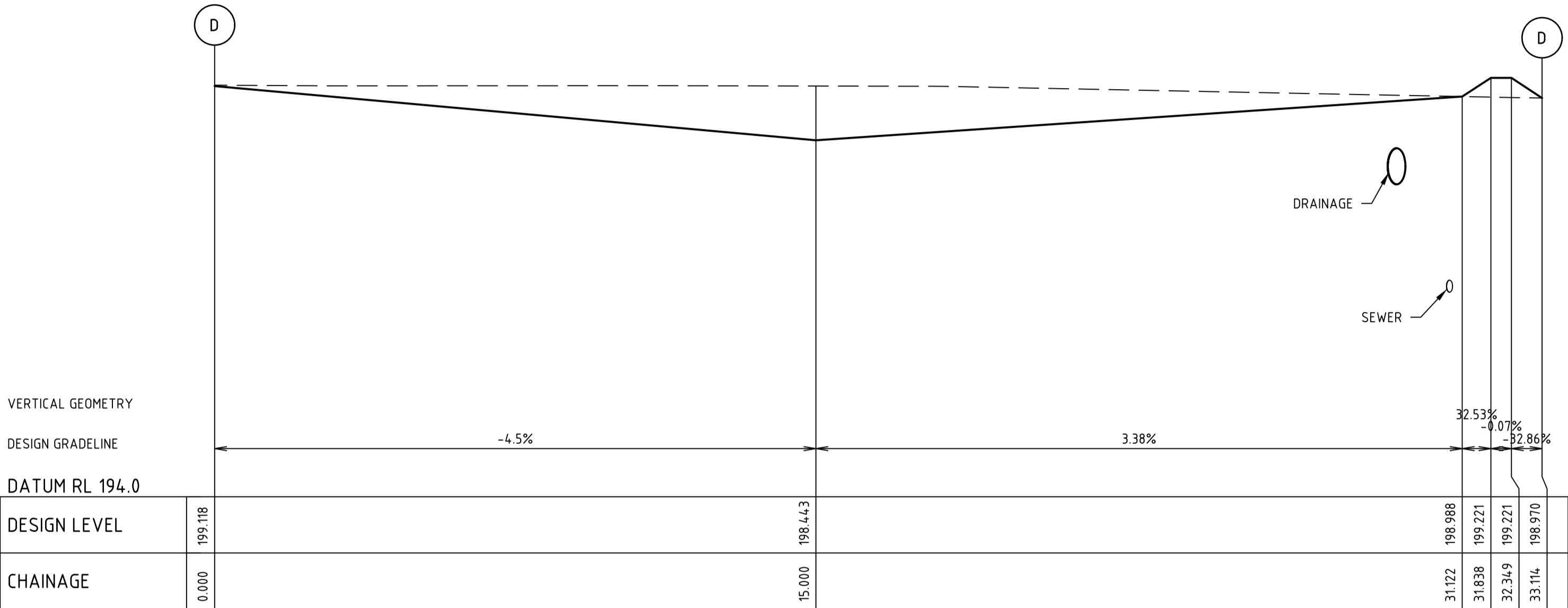
**PRELIMINARY** Drg No 321278-001CR606

C

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file location: \\Spiire\Bendigo\Drawings\321278\001CR600.dwg, plot date: 18/03/2024, 10:42 AM, Sheet 15 of 17 Sheets

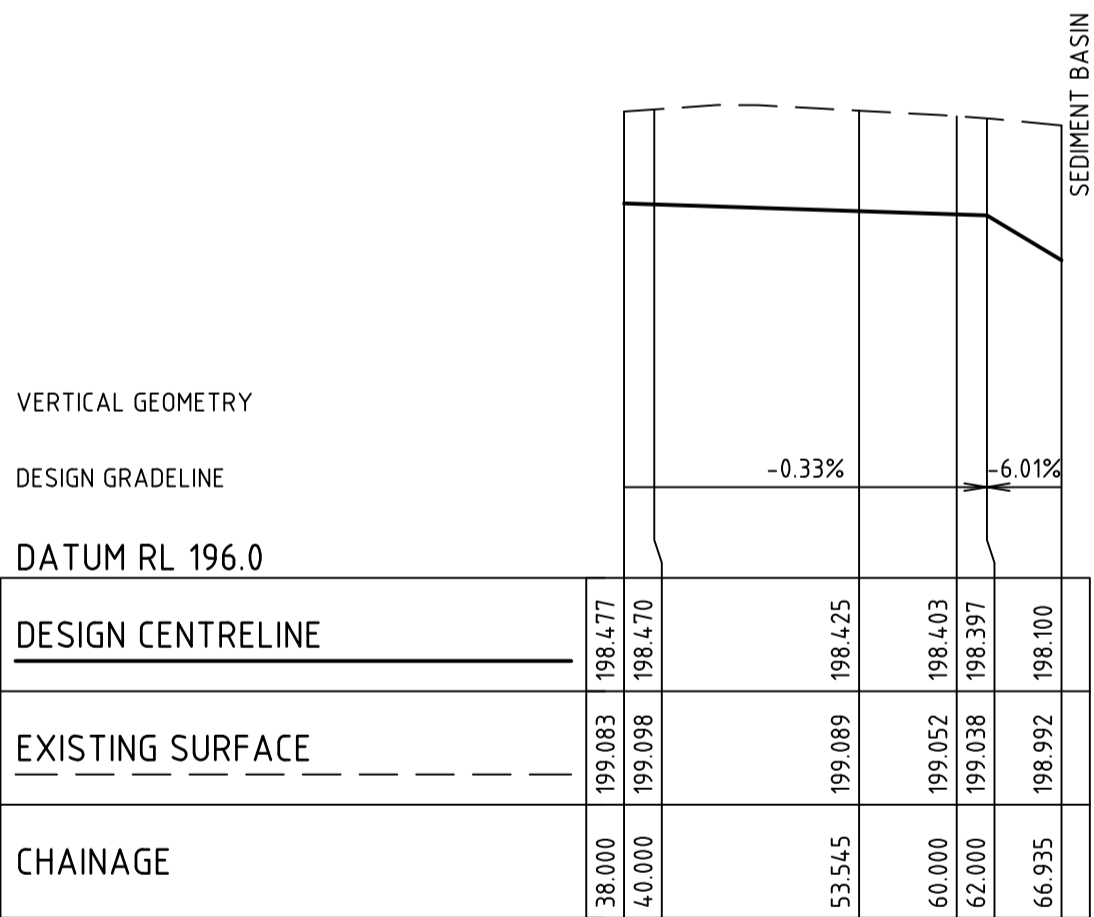


OPEN CATCH DRAIN PLAN VIEW  
TYPICAL SECTION D-D  
H: 1250  
SCALE @ A1



OPEN CATCH DRAIN SECTION D-D

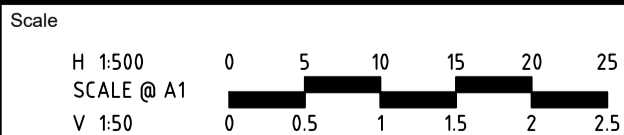
H: 1100  
SCALE @ A1  
V: 150



OPEN CATCH DRAIN LS

H: 1500  
SCALE @ A1  
V: 150

Rev	Amendments	Approved	Date
C	AMENDED AS PER COUNCIL COMMENTS	A.W.	MAR 2024
B	COUNCIL COMMENTS	A.W.	NOV 2023
A	PRELIMINARY ISSUE	A.W.	OCT 2023

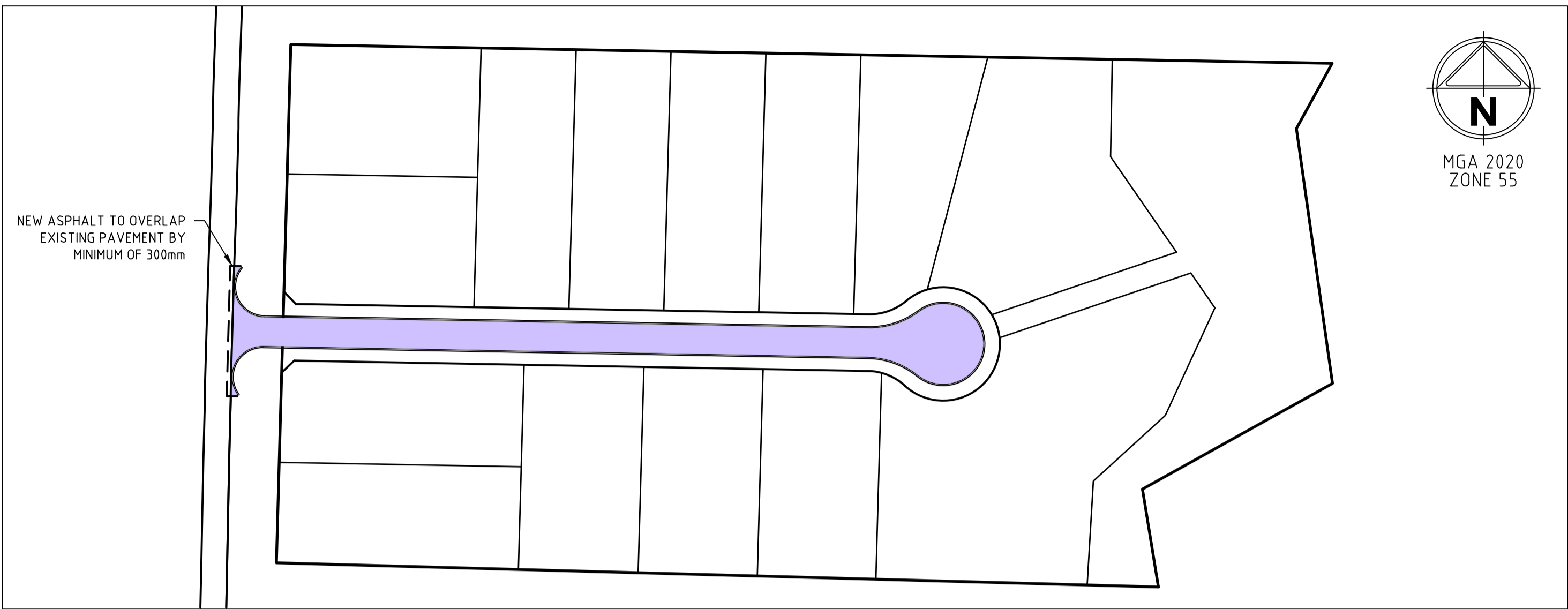
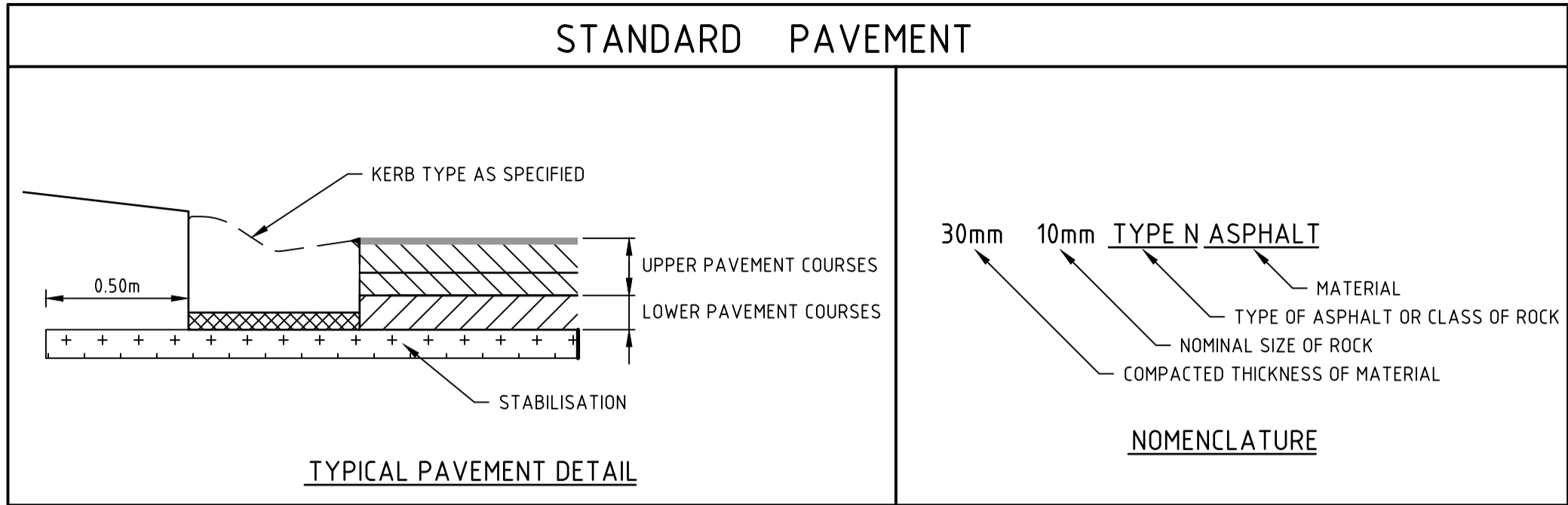


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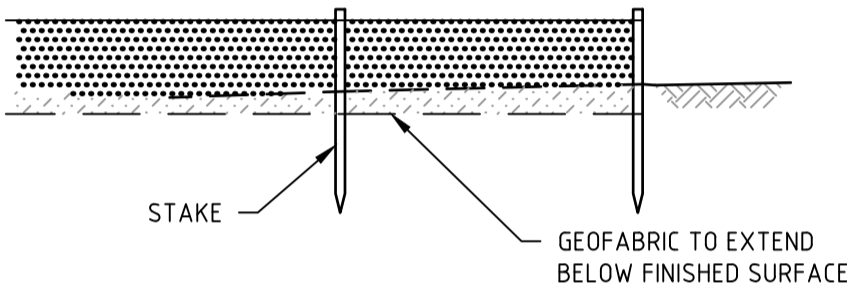
Designed  
J.CAPACETE  
Authorised  
A.WILKIE  
Checked  
B.IBBS  
Date  
MAR 2024

**MONSANTS ROAD  
14 LOT SUBDIVISION  
ROAD AND DRAINAGE  
DRAINAGE LONG SECTIONS - SHEET 8  
CITY OF GREATER BENDIGO  
11 & 13 MONSANTS ROAD PTY LTD**  
**PRELIMINARY** Drg No **321278-001CR607** Rev **C**

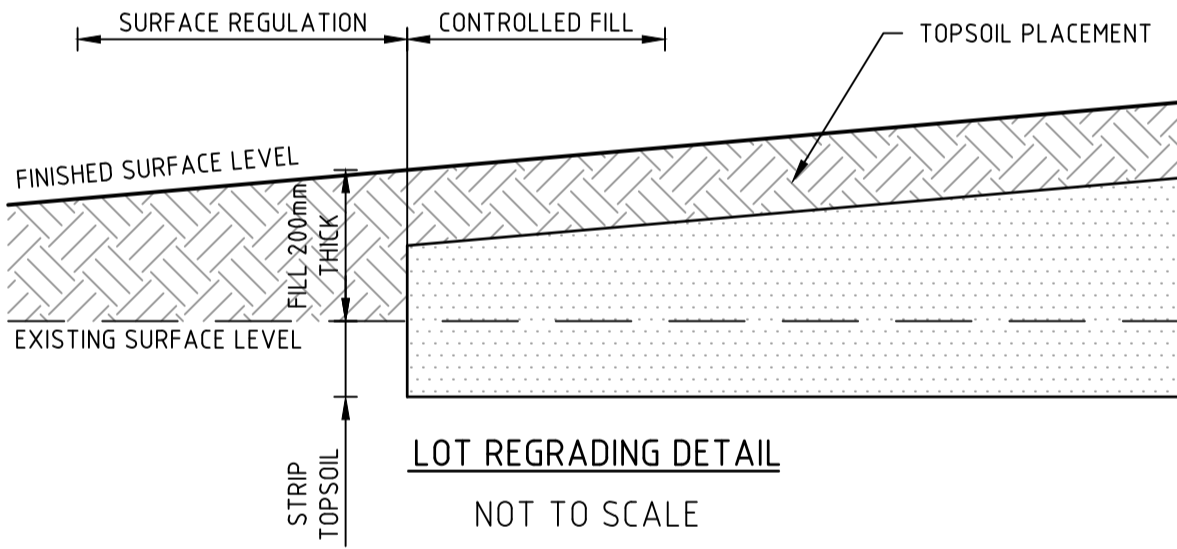


PAVEMENT PLAN

H 1:1000  
SCALE @ A1



SILT CONTROL FOR LOTS  
GEOFABRIC SILT FENCE  
NOT TO SCALE

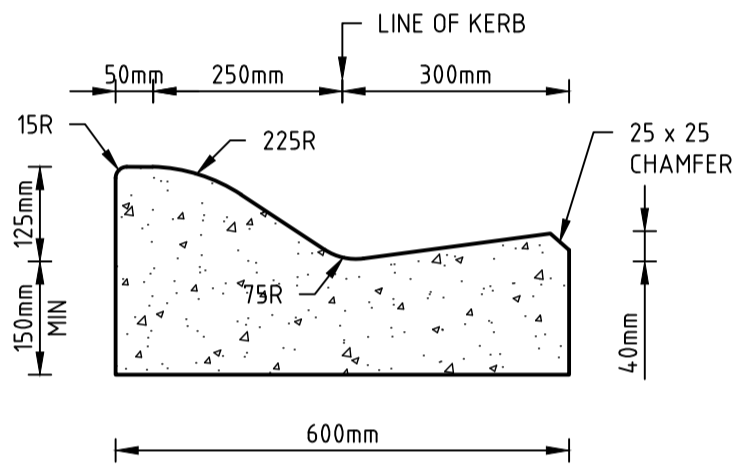


LOT REGRADING DETAIL  
NOT TO SCALE

DESIGN PAVEMENT PROFILE

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		TYPE A*
ASPHALT SEAL	SIZE 10 TYPE N WITH PRIME	30
BASE COURSE	20mm NOMINAL SIZE CLASS 1 OR 2 FCR, MIN CBR 80 COMPACTED TO 98% MODIFIED MAXIMUM DRY DENSITY	110
UPPER PAVEMENT TOTAL		140
SUB-BASE	20mm OR 40mm NOMINAL SIZE CLASS 3 OR 4 FCR, MIN CBR 30 COMPACTED TO 97% MODIFIED MAXIMUM DRY DENSITY	110
CAPPING LAYER	3% LIME STABILISATION	150
LOWER PAVEMENT TOTAL		260
TOTAL PAVEMENT DEPTH		400

\* REFER PAVEMENT PLAN FOR LOCATION OF PAVEMENT TYPES



SM2-M

STANDARD KERB PROFILES

NOTE: ALL KERB & CHANNEL AS PER IDM

H 1:100  
SCALE @ A1

CONCRETE PAVEMENT 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.

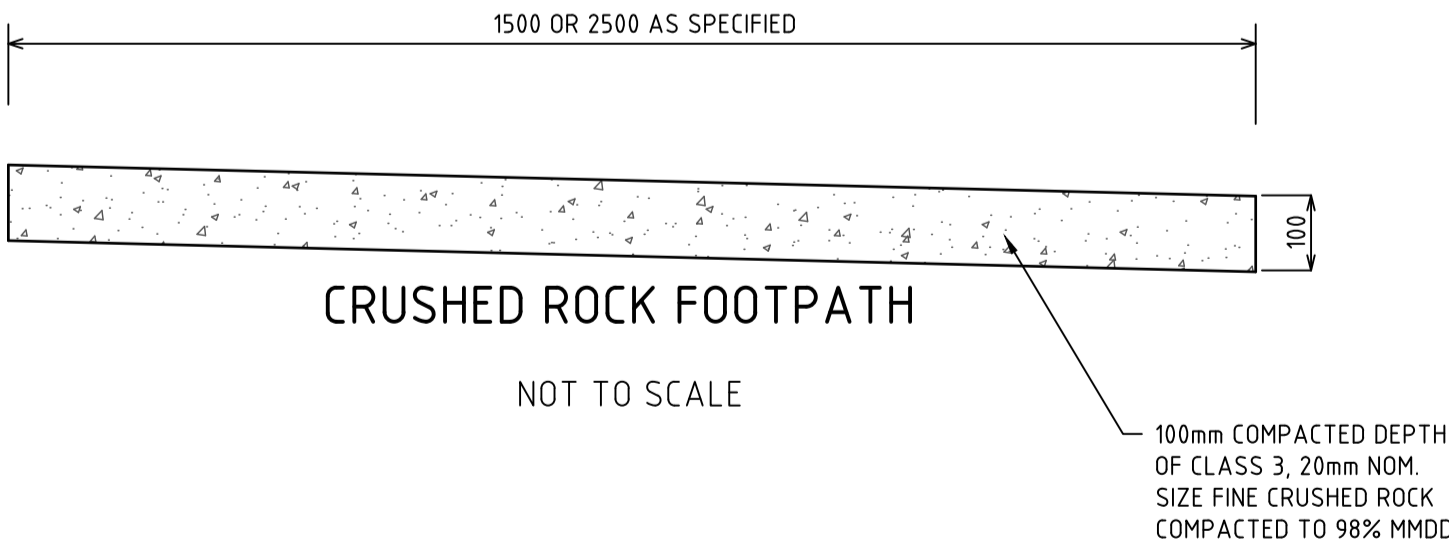
PAVEMENT DETAILS

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

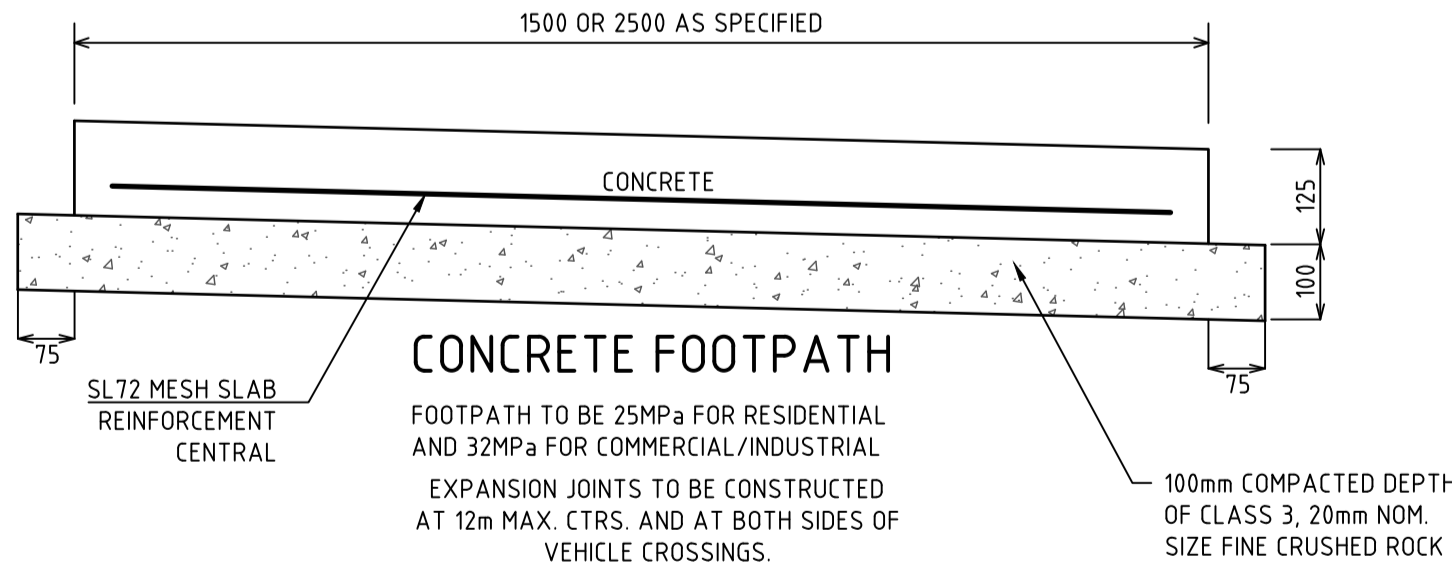
THE DESIGN HAS BEEN EXTRACTED FROM THE **23C 0734** REPORT ON "GEOTECHNICAL INVESTIGATION FOR 11-13 MONSANTS ROAD MAIDEN GULLY". THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.

A COPY OF THE DOCUMENT WILL BE PROVIDED ON REQUEST.

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ENGINEERING PLANS

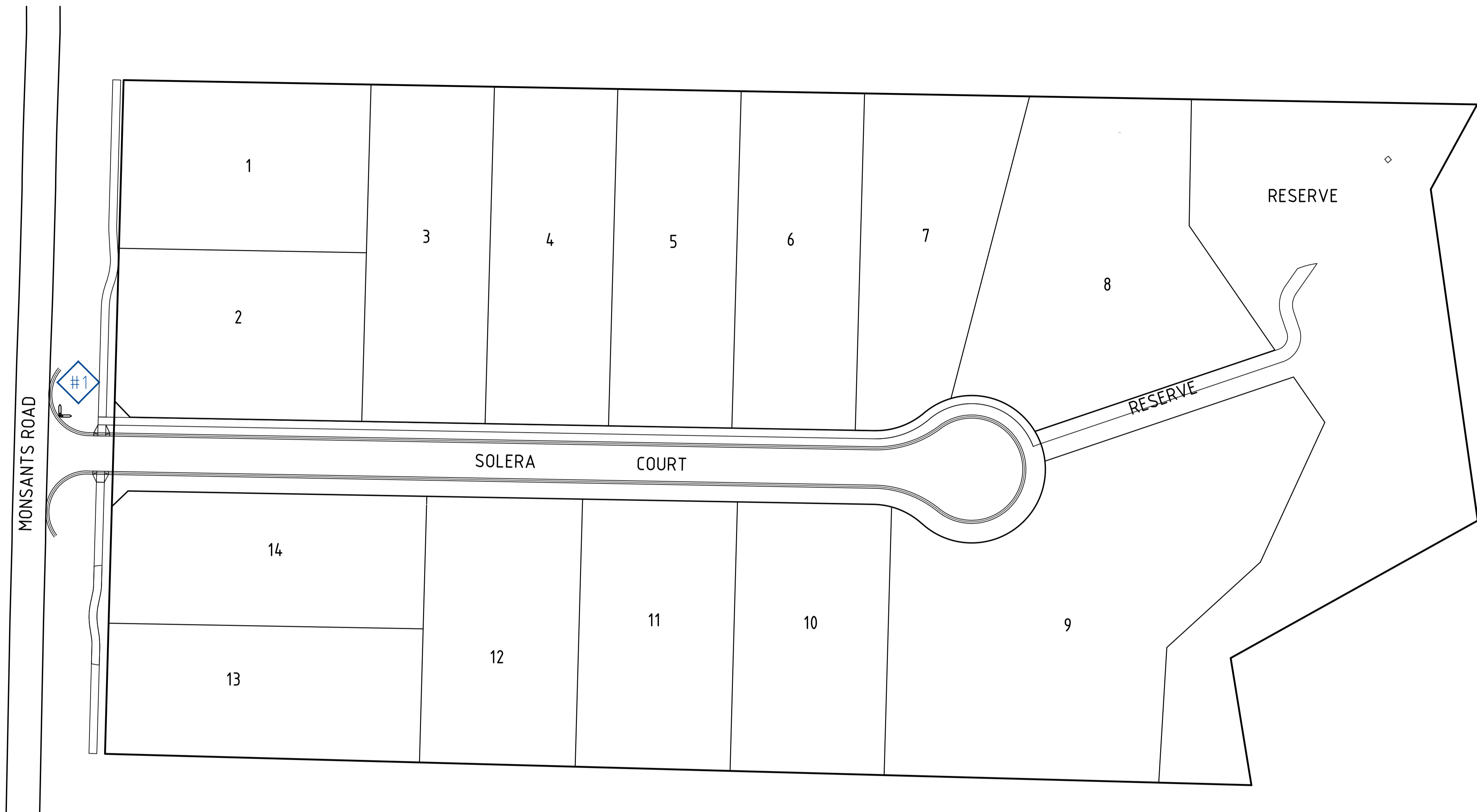
APPROVED BY: Peter Brasier

DATE: 18 March 2024

MONSANTS ROAD  
14 LOT SUBDIVISION  
ROAD AND DRAINAGE  
PAVEMENT AND TYPICAL DETAILS  
CITY OF GREATER BENDIGO  
11 & 13 MONSANTS ROAD PTY LTD

**PRELIMINARY** Drg No **321278-001CR700** Rev **C**

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SIGNAGE SCHEDULE

REFERENCE NO.	SIGN	DESCRIPTION
#1		CoGB STREET NAME PLATES INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE

GREATER BENDIGO CITY COUNCIL  
ENGINEERING PLANS  
APPROVED BY: Peter Brasier  
DATE: 18 March 2024

file name: 321278-001CR800.dwg, layout name: CR800, plotted by: Juh. Capacete, file path: G:\321278\001\Cr\A1.dwg, plot date: 18/03/2024, 10:42 AM, Sheet 17 of 17 Sheets

Rev	Amendments	Approved	Date
C	AMENDED AS PER COUNCIL COMMENTS	A.W.	MAR 2024
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Scale  
H 1500  
SCALE @ A1  
0 5 10 15 20 25

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Designed J.CAPACETE	Checked B.IBBS
Authorised A.WILKIE	Date MAR 2024

**MONSANTS ROAD  
14 LOT SUBDIVISION  
ROAD AND DRAINAGE  
SIGNAGE AND LINEMARKING**  
CITY OF GREATER BENDIGO  
11 & 13 MONSANTS ROAD PTY LTD

**PRELIMINARY** Drg No **321278-001CR800** Rev **C**