

CONROY'S GREEN STAGE 3 SAN HUBERTO PROPERTY

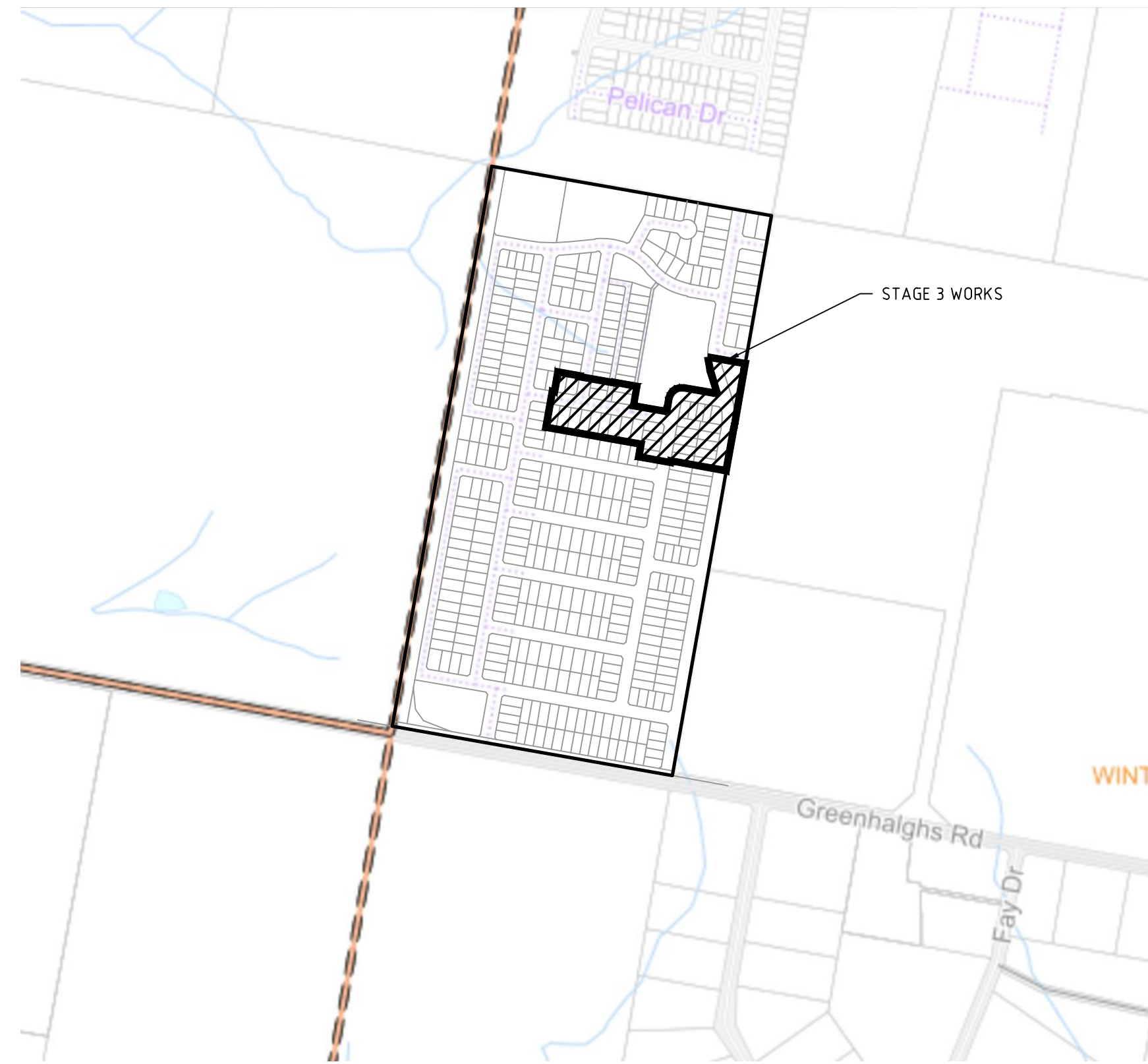
GENERAL NOTES:

A. GENERAL

- ALL WORK TO BE CARRIED OUT TO CITY OF BALLARAT & IDM SPECIFICATIONS, STANDARD DRAWINGS AND TO THE SATISFACTION OF COUNCIL'S SENIOR SURVEILLANCE OFFICER OR HIS REPRESENTATIVE.
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) ZONE 54.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- COUNCIL'S REPRESENTATIVE IS TO BE NOTIFIED IN WRITING SEVEN (7) DAYS PRIOR TO THE COMMENCEMENT OF WORKS.
- NO EXCAVATION WITHIN 5M OF ANY EXISTING TREE WITHOUT APPROVAL OF THE ENGINEER.
- NO BLASTING IS PERMITTED WITHIN THE CITY OF BALLARAT WITHOUT OBTAINING COUNCIL'S SPECIAL DISPENSATION.
- EXCAVATED MATERIAL SURPLUS TO FILLING REQUIREMENTS OF THE WORKS SHALL BE REMOVED FROM SITE AS SPECIFIED.
- 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.
- NATURESTRIPS AND ALL AREAS OF CUT OUTSIDE ROAD RESERVE TO BE SURFACED WITH 100MM MINIMUM COMPACTED LAYER OF TOPSOIL.
- CULTURAL HERITAGE AREAS TO BE STRIPPED OF TOPSOIL TO A DEPTH OF APPROXIMATELY 350MM AND PLACED ON EXISTING TOPSOIL STOCKPILE FOR RE-SPREADING AT A LATER DATE.

B. ROAD WORKS

- FOOTPATHS ARE TO BE 1.5M WIDE UNLESS SHOWN OTHERWISE. FOOTPATHS TO BE CONSTRUCTED TO THE CITY OF BALLARAT STANDARDS.
- CONSTRUCT LAYBACK SECTION AT VEHICLE CROSSING, REVERSING BAYS AND CAR PARKING BAYS AND PRAM CROSSING TO THE CITY OF BALLARAT STANDARDS.
- ALL CHAINAGES REFER TO ROAD PAVEMENT CENTRELINES EXCEPT IN COURT HEADS AND INTERSECTIONS WHERE CHAINAGES REFER TO BACK OF KERB.
- THE CONTRACTOR IS REQUIRED TO CONFINE CONSTRUCTION VEHICLES TO THE ROAD RESERVE AND EASEMENTS. ANY DAMAGE CAUSED TO ALLOTMENTS MUST BE MADE GOOD.
- ALL BATTERS SHALL BE TO THE CITY OF BALLARAT STANDARDS.
 - CUT 1 IN 12 UNLESS OTHERWISE SHOWN.
 - FILL 1 IN 12 UNLESS OTHERWISE SHOWN.
- 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.
- SUBGRADE BE COMPACTED TO A MINIMUM OF 98% STANDARD MAXIMUM DRY DENSITY (AS3798), WITH THE SUBBASE COMPACTED IN ACCORDANCE WITH SCALE C IN VICROADS TABLE 304.071 USING FINE CRUSHED ROCK AND THE BASE COURSE TO AN AVERAGE OF 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.
- 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.
- CONCRETE TO HAVE 28DAY STRENGTH OF 25MPA UNLESS NOTED OTHERWISE
- MATERIALS AND SUPPLIERS CALLED IN THE SPECIFICATION, SCHEDULES OR PLANS SHALL NOT BE SUBSTITUTED WITHOUT PRIOR WRITTEN APPROVAL AS PER 'ENVIRODEVELOPMENT - NATIONAL TECHNICAL STANDARD VERSION 2'. ALL RECEIPTS MUST BE RETAINED AND PROVIDED UPON REQUEST.



LOCALITY PLAN
NOT TO SCALE

DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
CR100	GENERAL NOTES	1	(A)
CR200	ROAD LAYOUT PLANS - SHEET 1	2	(A)
CR201	ROAD LAYOUT PLANS - SHEET 2	3	(A)
CR202	ROAD LAYOUT PLANS - TBM & CUT AND FILL PLAN	4	(A)
CR300	ROAD LONG SECTIONS - SHEET 1	5	(A)
CR301	ROAD LONG SECTIONS - SHEET 2	6	(A)
CR400	ROAD CROSS SECTIONS - SHEET 1	7	(A)
CR401	ROAD CROSS SECTIONS - SHEET 2	8	(A)
CR402	ROAD CROSS SECTIONS - SHEET 3	9	(A)
CR403	ROAD CROSS SECTIONS - SHEET 4	10	(A)
CR404	ROAD CROSS SECTIONS - SHEET 5	11	(A)
CR500	INTERSECTION DETAILS - SHEET 1	12	(A)
CR501	INTERSECTION DETAILS - SHEET 2	13	(A)
CR600	DRAINAGE LONG SECTIONS - SHEET 1	14	(A)
CR601	DRAINAGE LONG SECTIONS - SHEET 2	15	(A)
CR602	DRAINAGE LONG SECTIONS - SHEET 3	16	(A)
CR603	DRAINAGE LONG SECTIONS - PIT SCHEDULE	17	(A)
CR700	PAVEMENT AND TYPICAL DETAILS	18	(A)
CR800	SIGNAGE AND LINEMARKING	19	(A)

LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATER MAIN, VALVE AND HYDRANT	DW	DW
UNDERGROUND ELECTRICITY	E	E
TELECOMMUNICATIONS & SERVICE PIT	T	T
GAS MAIN	G	G
BRANCH SEWER & MAINTENANCE STRUCTURE	S	S
SEWER & MAINTENANCE STRUCTURE	S	S
SEWER RISING MAIN	SRM	SRM
CENTRAL INVERT	>	>
COUNCIL STORMWATER DRAIN AND PIT	>	>
STORM WATER DRAINAGE PROPERTY INLETS	>	>
COUNCIL STORM WATER PITS	>	>
HOUSE DRAIN	+H(P)	+H(P)
AG DRAIN AND FLUSHER	AG	AG
STORM WATER DRAINAGE PIT TYPE & NUMBER	EX219EP	302JP
GAS & WATER CONDUITS	GW	GW
RIDGE / CHANGE OF GRADE LINE	-	-
SURFACE CONTOUR MINOR	-169.00	169.00
SURFACE CONTOUR MAJOR	-168.90	168.90
SURFACE LEVEL	E123.45	F124.68
BATTER LEVEL (TOP / TOE)	T124.80	T124.80
EARTHWORKS GRADE	1m 150	1m 150
SIGN AND POST	>	>
STREET SIGN	>	>
PERMANENT SURVEY MARK	CH116.57 (L/R)T/P	CH116.57 (L/R)T/P
TEMPORARY BENCH MARK	CH20.06	CH20.06
BOLLARD	>	>
ROAD CHAINAGES	CH20.06	CH20.06
LOT CHAINAGES	CH20.06	CH20.06
SETOUT POINT	A1	A1
LIMIT OF WORKS	>	>
BATTER	>	>
ROCK BEACHING	>	>
RETAINING WALL	>	>
FENCE - TREE PROTECTION	>	>
FENCE - VEHICLE EXCLUSION	>	>
FENCES	>	>
TREE (& SURVEYED CANOPY) TO BE RETAINED	>	>
TREE TO BE PROTECTED	>	>
TREE TO BE REMOVED	>	>
VEGETATION LINE	>	>
FOOTPATH	>	>
TACTILE GROUND SURFACE INDICATOR	>	>
KERB TRANSITION	B2	SM2

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
BLACKBIRD GRANGE	E	2.95	E	2.40	W	1.80	-	-	-	-
SWALLOW LANE	-	-	-	-	-	-	-	-	-	-
WAGTAIL WALK	W	3.30	W	3.80	W	1.80	W	1.0x	W	2.30
GOLDFINCH ROAD	E	3.00	E	2.95	W	1.85	W	1.0x	W	2.65
LARK STREET	S	2.95	S	2.40	N	1.80	N	1.0x	N	1.90
COROMANT GRANGE	E	2.95	E	2.40	W	1.80	W	1.0x	W	2.70
COROMANT GRANGE (LOT 325 - LOT 329)	S	2.95	S	2.40	N	1.80	N	1.0x	N	2.70

- 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.
- 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.

file name: 308512CR100.dwg, layout name: CR100, created by: Mitchell Wright, file location: \\spire\bandara\Draws\308512\Civil\A\A01.dwg, plot date: 17/02/2021 8:58 AM, Sheet 1 of 19 Sheets

Rev	Description	Approved	Date
(A)	PRELIMINARY ISSUE	A.W	11/02/21
Rev	Amendments	Approved	Date

System Certified

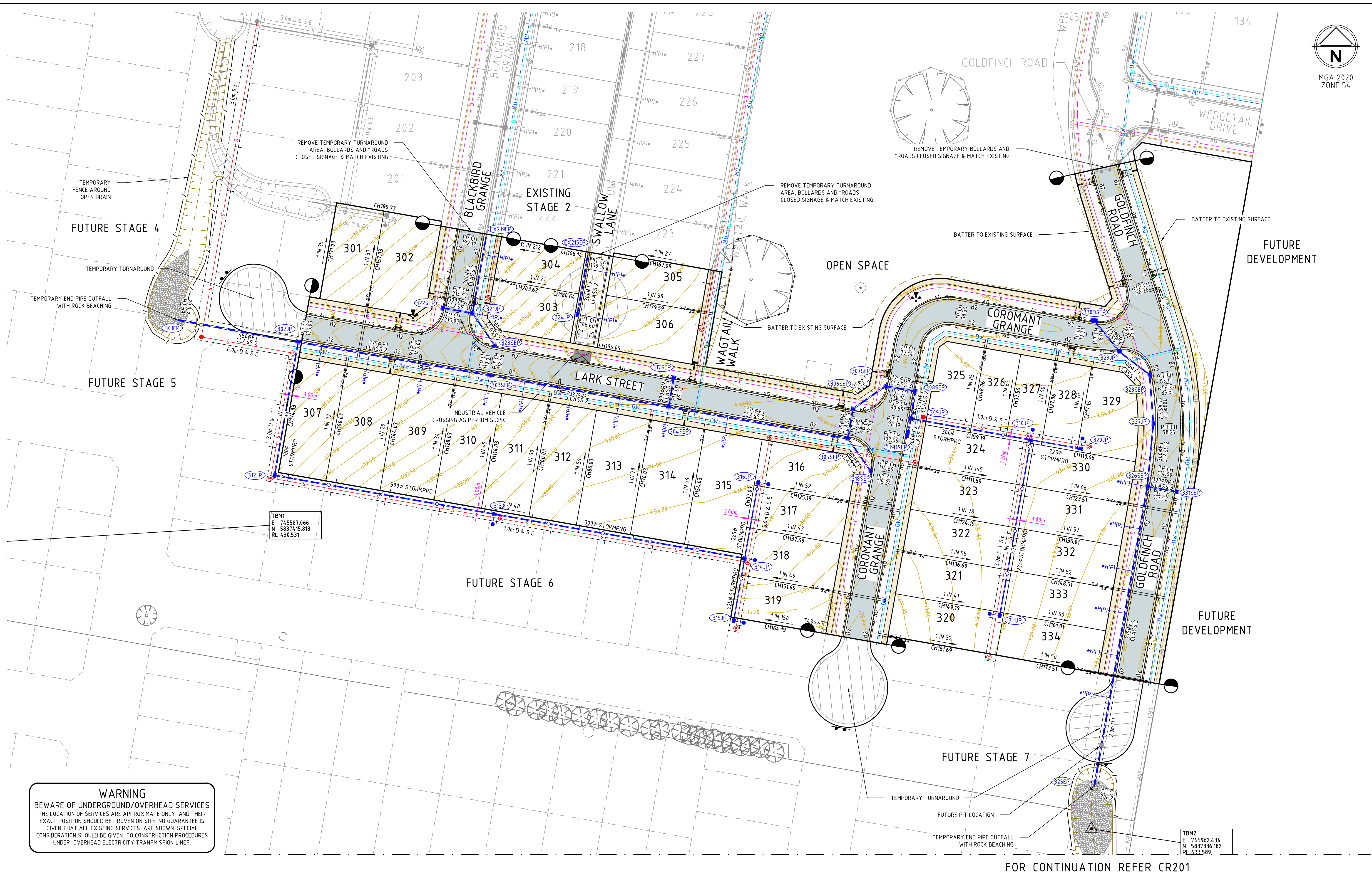
© Spiire Australia Pty Ltd All Rights Reserved

This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

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

Designed
M. WRIGHT
Checked
Date
Authorised
A. WILKIE

CONROY'S GREEN
STAGE 3
ROAD AND DRAINAGE
GENERAL NOTES
 CITY OF BALLARAT
 SAN HUBERTO PROPERTY
PRELIMINARY Drg No **308512CR100** Rev **(A)**



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.

TBM1
E 745587.066
N 583745.818
RL 430.531

TBM2
E 745962.434
N 583736.182
RL 433.589

FOR CONTINUATION REFER CR201

Scale	H 1500 SCALE @ A1
ISO 9001 dltca	ISO 45001 dltca
ISO 14001 dltca	System Certified
© Spiire Australia Pty Ltd All Rights Reserved This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.	16 BRIDGE STREET BENDIGO VICTORIA 3550 AUSTRALIA T 61 3 5448 2500 spiire.com.au ABN 55 050 029 635
Designed M. WRIGHT	Checked
Authorised A. WILKIE	Date
(A) PRELIMINARY ISSUE	A.W 11/02/21
Rev Amendments	Approved Date

Scale: H 1500 SCALE @ A1

ISO 9001 dltca
ISO 45001 dltca
ISO 14001 dltca
System Certified

© Spiire Australia Pty Ltd All Rights Reserved
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

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

spiire

Designed
M. WRIGHT

Checked

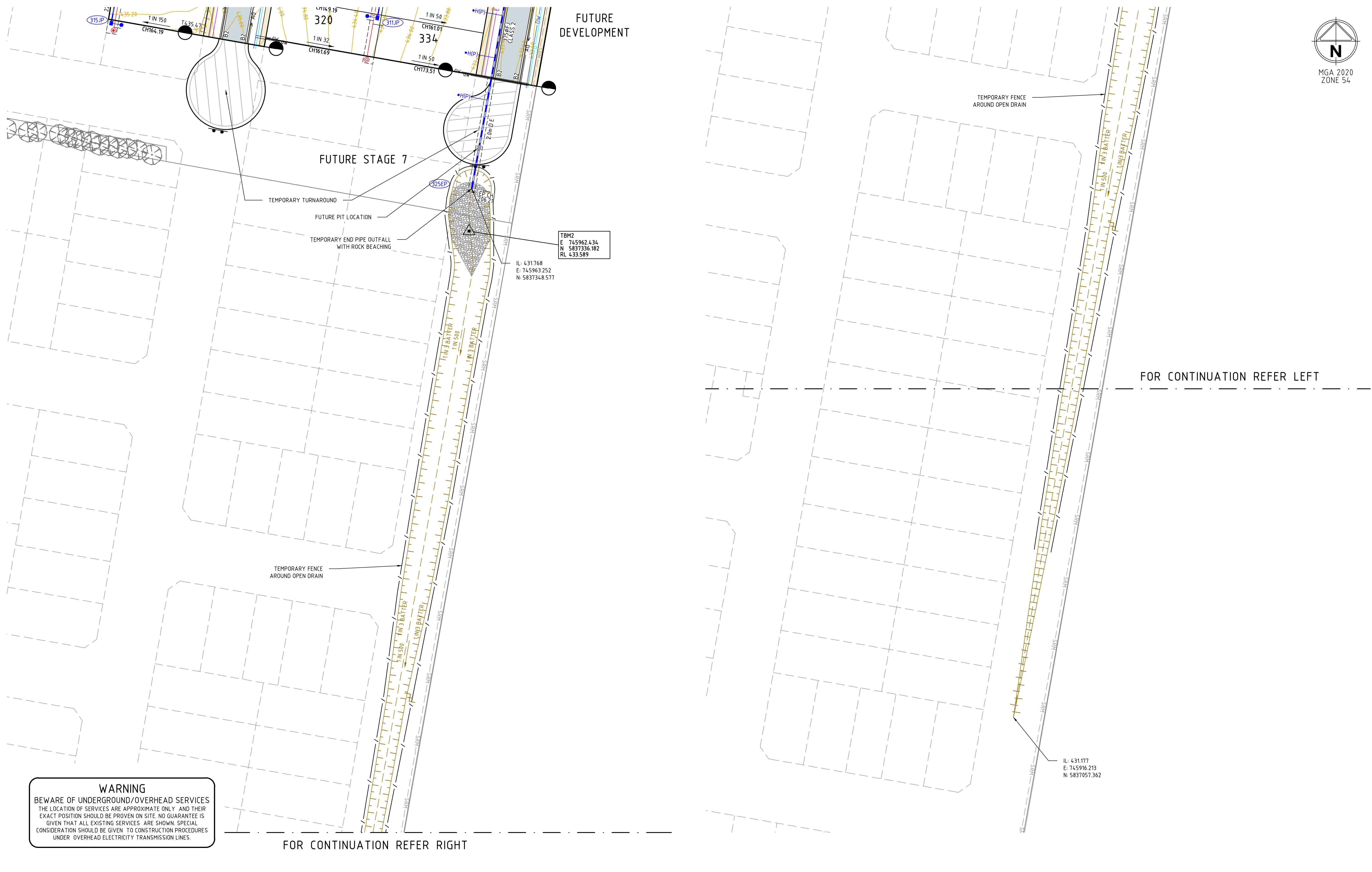
Authorised
A. WILKIE

Date

**CONROY'S GREEN
STAGE 3
ROAD AND DRAINAGE
LAYOUT PLANS - SHEET 1**
CITY OF BALLARAT
SAN HUBERTO PROPERTY

PRELIMINARY Drg No 308512CR200 Rev (A)

file name: 308512CR200.dwg layout: name: CR200 created by: Mitchell Wright plot date: 12/02/2021 8:58 AM sheet: 2 of 19 sheets file location: \\spiire\projects\ballarat\308512\work\A1\A1.dwg



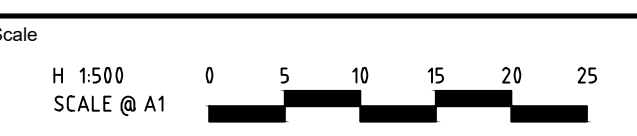
WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION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

FOR CONTINUATION REFER RIGHT

FOR CONTINUATION REFER LEFT

file name: 308512CR201.dwg, layout name: CD01, plotted by: Mitchell Wright, file location: \\spire\projects\308512\CD01\308512.dwg, plot date: 17/02/2021, 8:58 AM, Sheet 3 of 19 Sheets

Rev	Amendments	Approved	Date
(A)	PRELIMINARY ISSUE	A.W	11/02/21



System Certified

© Spiire Australia Pty Ltd All Rights Reserved
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

spiire

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

Designed M. WRIGHT	Checked
Authorised A. WILKIE	Date

CONROY'S GREEN
STAGE 3
ROAD AND DRAINAGE
ROAD LAYOUT PLANS - SHEET 2
CITY OF BALLARAT
SAN HUBERTO PROPERTY

PRELIMINARY Dwg No: **308512CR201** Rev: **(A)**



DEPTH RANGES (100mm)

FROM	TO	COLOUR
-	-0.80	Dark Blue
-0.80	-0.70	Blue
-0.70	-0.60	Light Blue
-0.60	-0.50	Light Green
-0.50	-0.40	Green
-0.40	-0.30	Yellow-Green
-0.30	-0.20	Yellow
-0.20	-0.10	Light Orange
-0.10	0.00	Orange
0.00	0.10	Light Red
0.10	0.20	Red
0.20	0.30	Dark Red
0.30	0.40	Dark Orange
0.40	0.50	Orange
0.50	0.60	Light Orange
0.60	0.70	Light Yellow
0.70	0.80	Yellow
0.80	+	Light Green

NOTE: DOES NOT INCLUDE FILLING OF EXISTING OPEN DRAINS

TBM LOCATIONS

Point Number	Easting	Northing	RL	D
1	745587.066	583745.818	4.30.531	STAR PICKET
2	745962.434	5837336.182	4.33.589	STAR PICKET

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.



© Spiire Australia Pty Ltd All Rights Reserved
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.



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

Designed
M. WRIGHT
Checked
Date

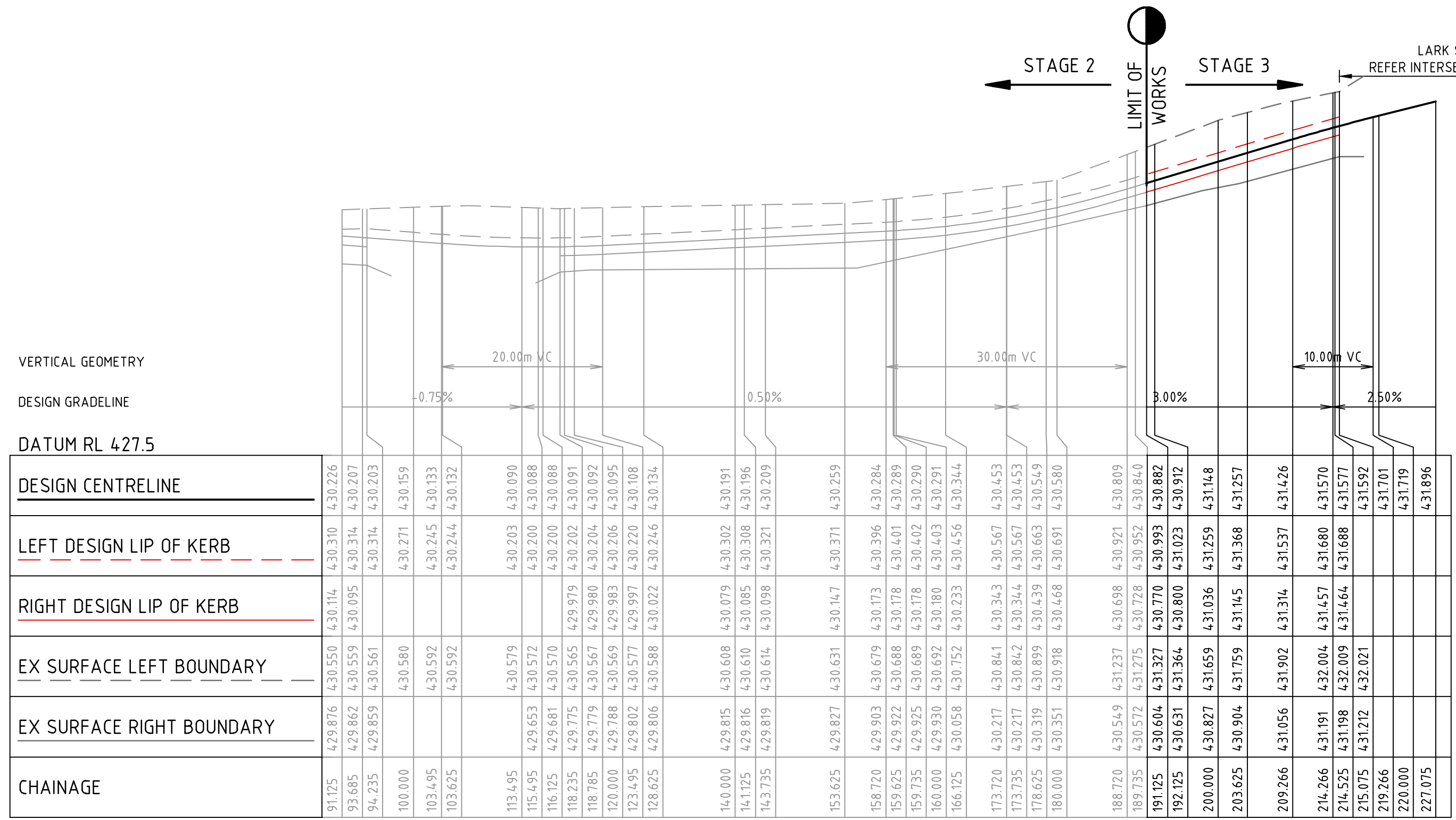
Authorised
A. WILKIE

CONROY'S GREEN
STAGE 3
ROAD AND DRAINAGE
ROAD LAYOUT PLANS - TBM & CUT AND FILL PLAN
CITY OF BALLARAT
SAN HUBERTO PROPERTY

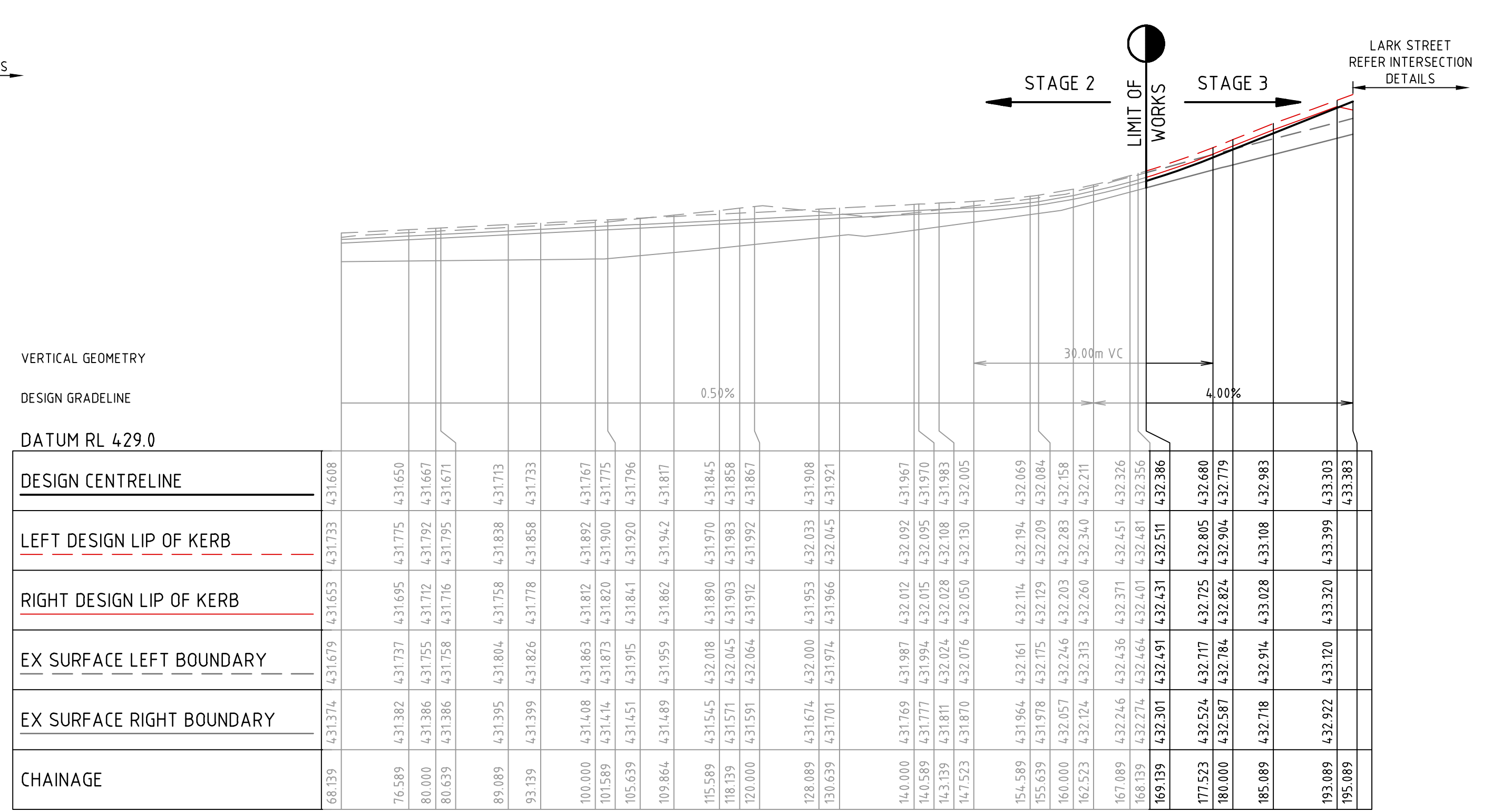
PRELIMINARY Dwg No **308512CR202** Rev **(A)**

file name: 308512CR202.dwg layout name: CD202 plot date: 12/02/2021 8:58 AM sheet 4 of 19 sheets
file location: \\spiire\projects\308512\308512.dwg

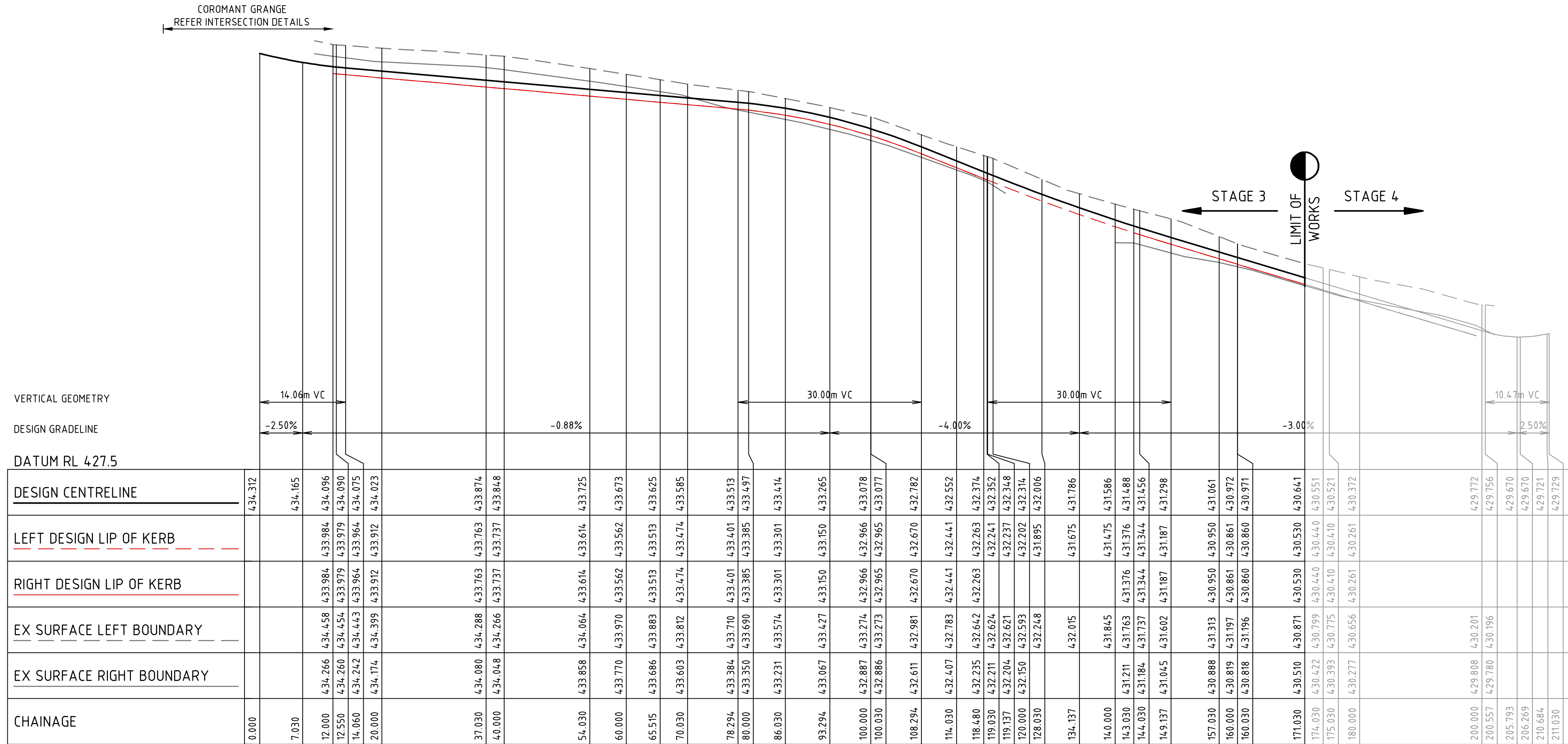
Rev	Description	Approved	Date
(A)	PRELIMINARY ISSUE	A.W	11/02/21
	Amendments		



BLACKBIRD GRANGE



SWALLOW LANE



LARK STREET

file name: 308512CR301.dwg, layout name: CS301, plotted by: Mitchell Wright, file location: \\spire\ben\data\308512\civil\A\A01\plot_date_12/02/2021_8:59:AM_Sheet_6_of_19_Sheets

Scale	H 1500	SCALE @ A1	V 150
(A) PRELIMINARY ISSUE	A.W	11/02/21	
Rev	Amendments	Approved	Date

System Certified

 © Spiire Australia Pty Ltd All Rights Reserved

 This document is produced by Spiire Australia Pty Ltd solely for the benefit of end use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

16 BRIDGE STREET BENDIGO

 VICTORIA 3550 AUSTRALIA T 61 3 5448 2500

 spiire.com.au ABN 55 050 029 635

Designed	M. WRIGHT	Checked	
Authorised	A. WILKIE	Date	

CONROY'S GREEN

STAGE 3

 ROAD AND DRAINAGE

 ROAD LONG SECTIONS - SHEET 2

 CITY OF BALLARAT

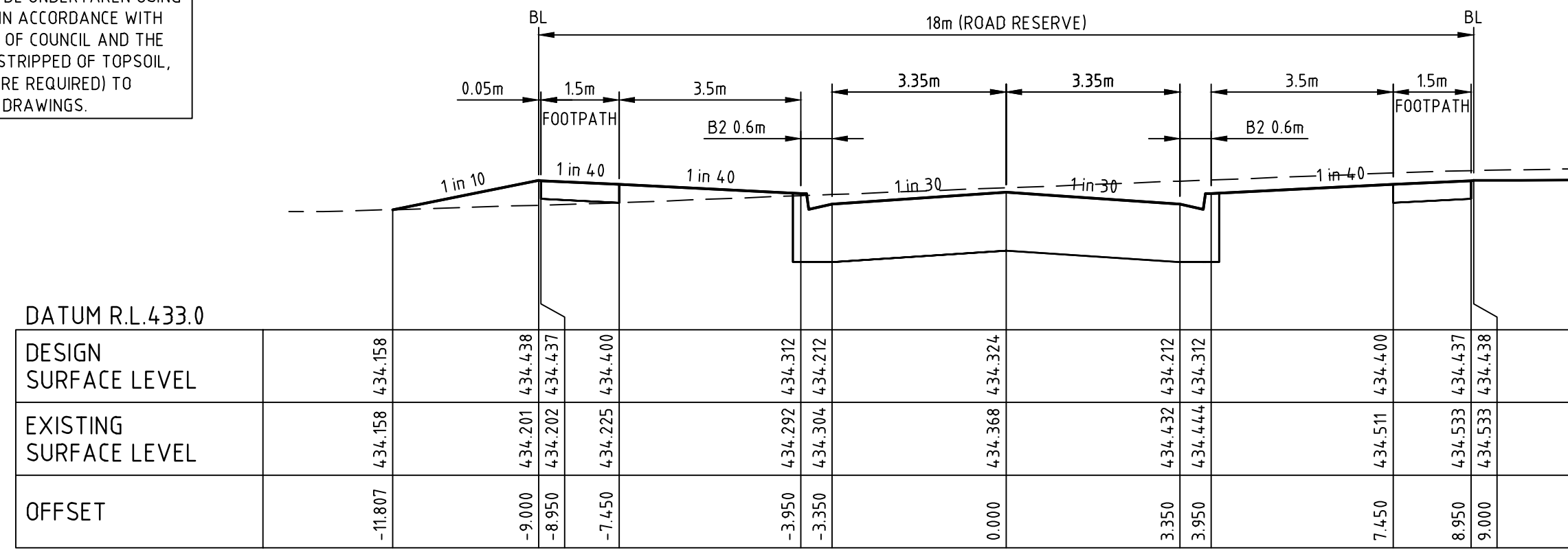
 SAN HUBERTO PROPERTY

PRELIMINARY

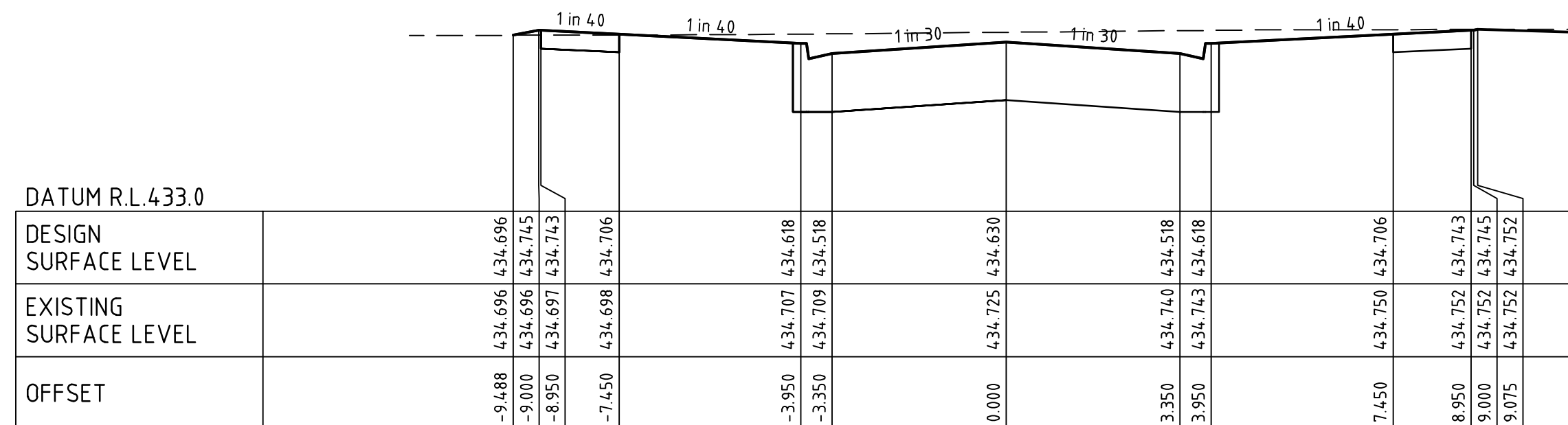
 Drg No 308512CR301

 Rev (A)

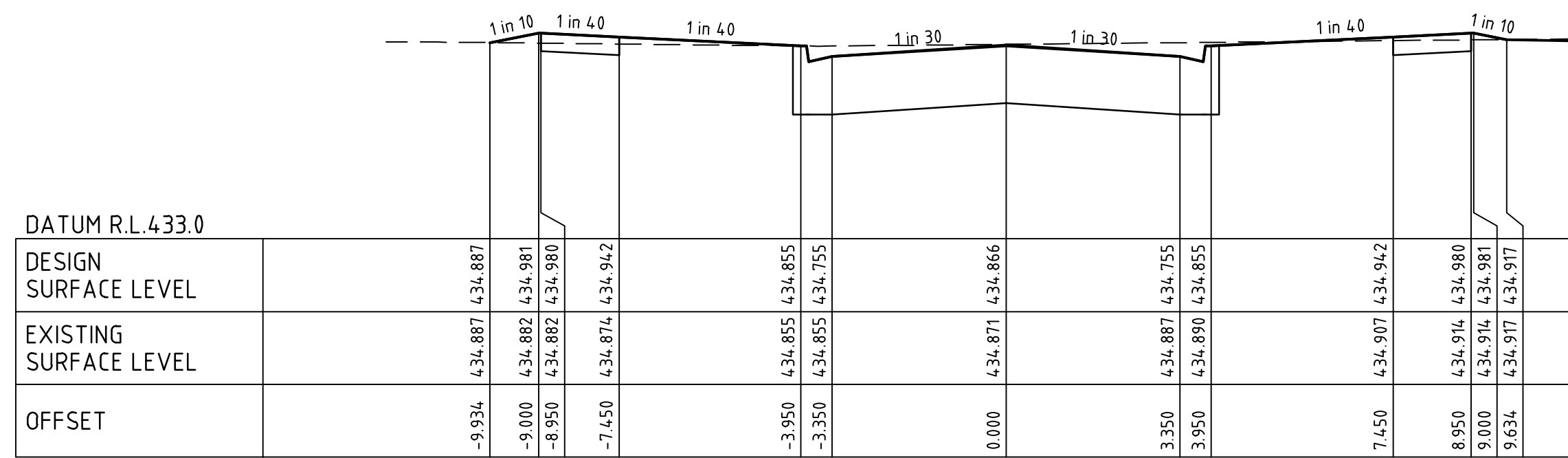
FILLING NOTE
 ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN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



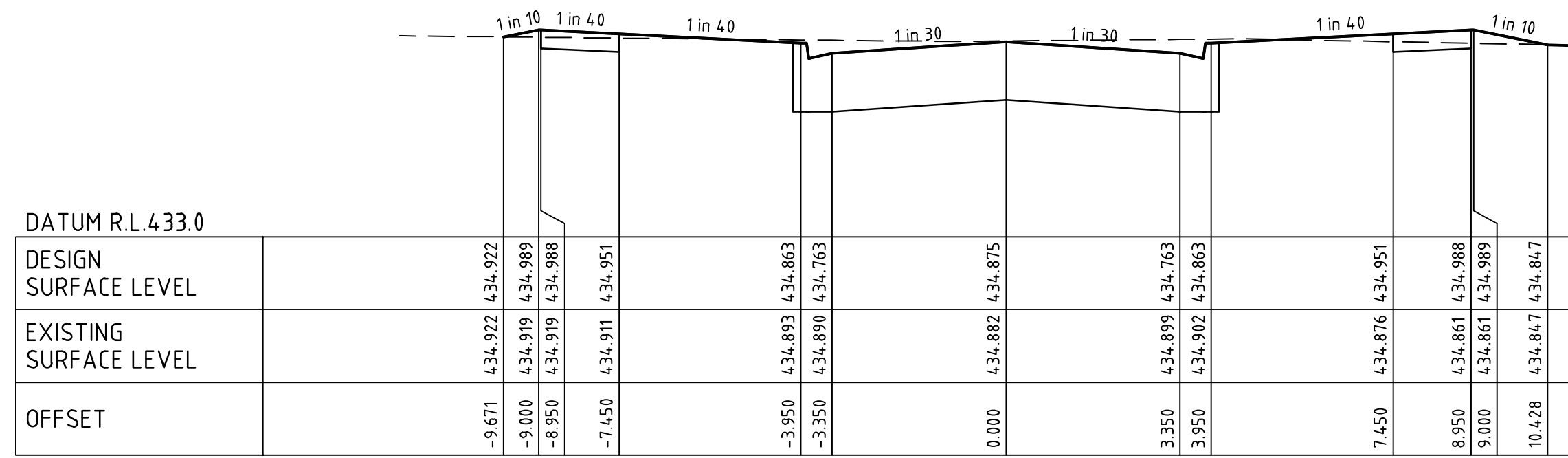
GOLDFINCH ROAD CH 85.51



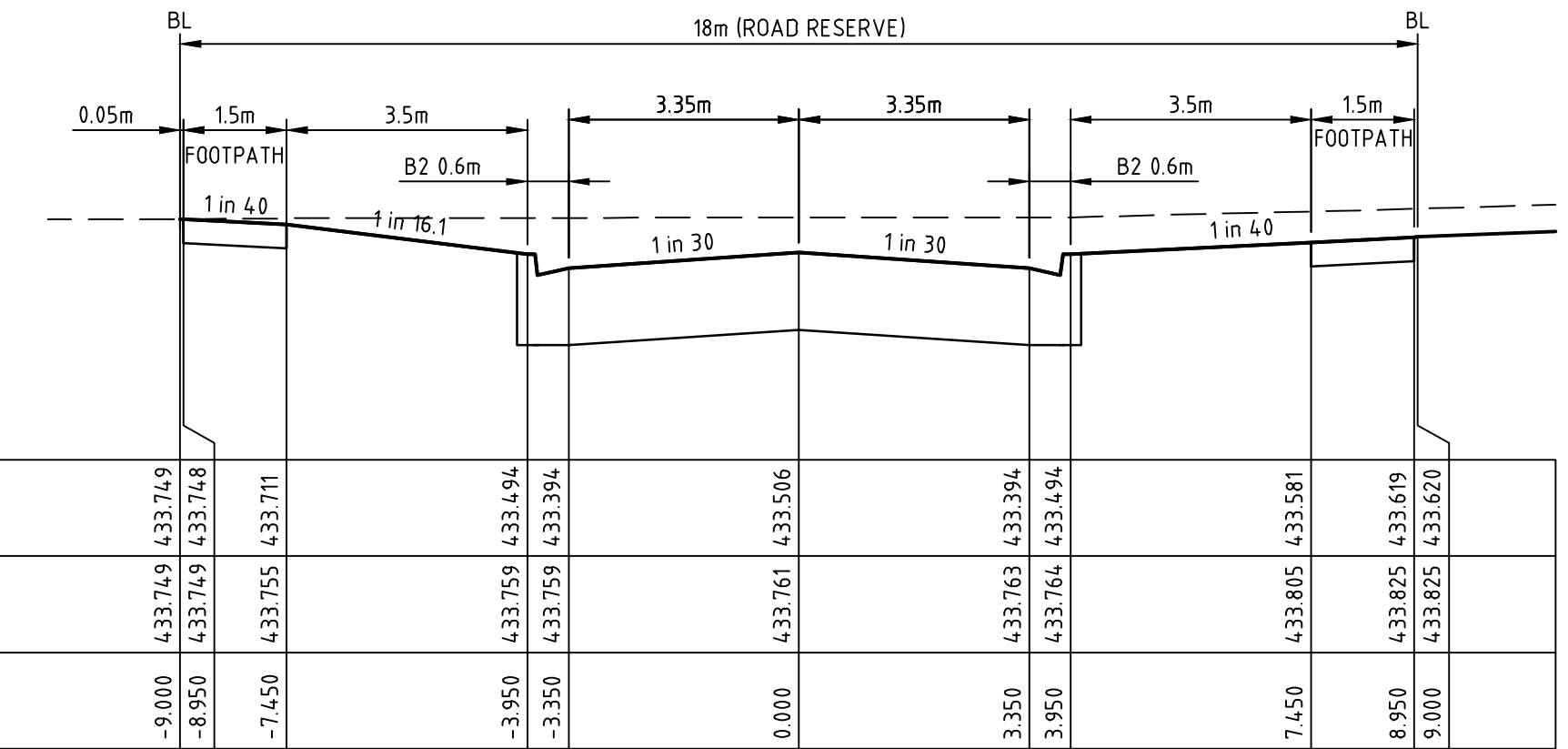
GOLDFINCH ROAD CH 56.26



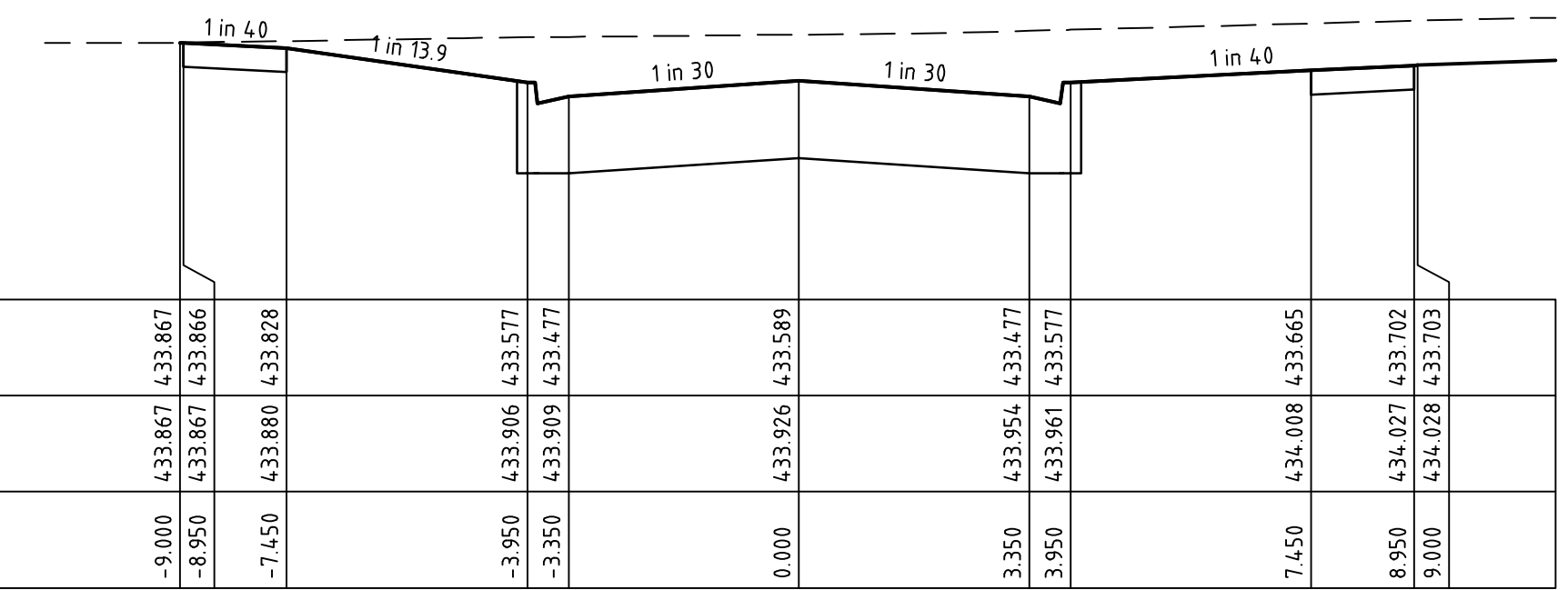
GOLDFINCH ROAD CH 35.00



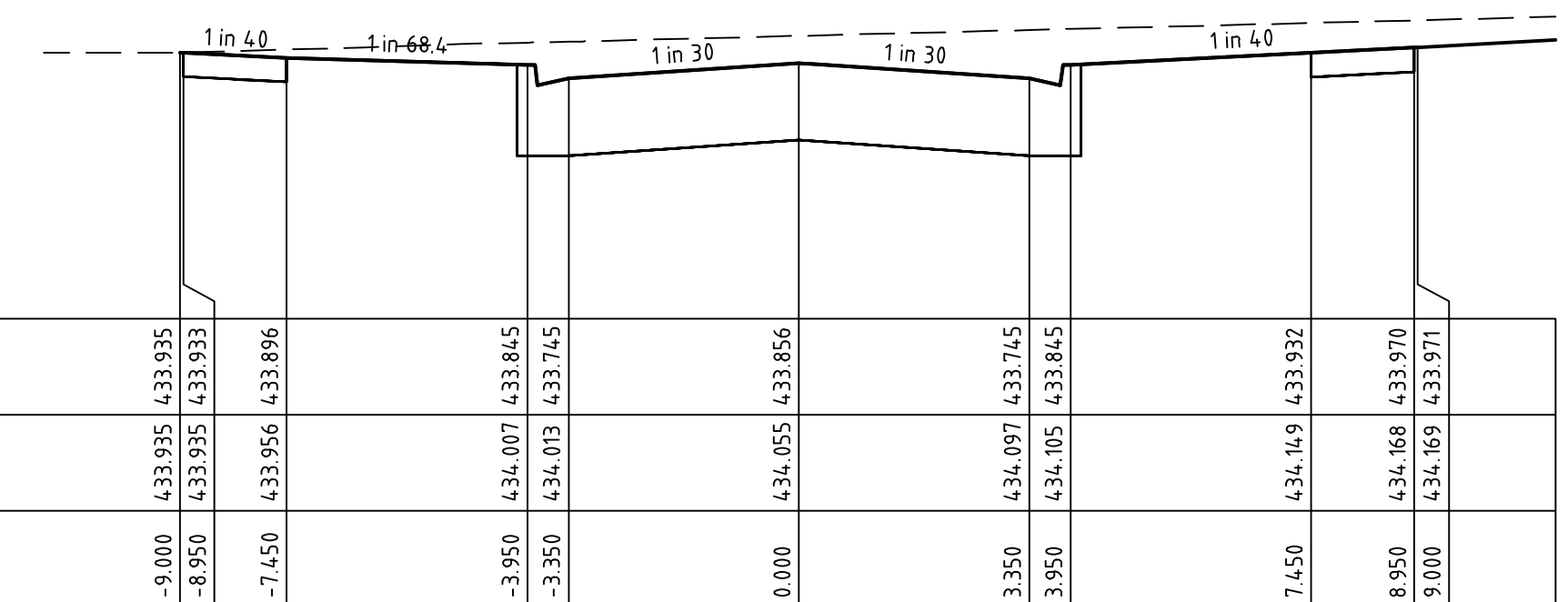
GOLDFINCH ROAD CH 21.02



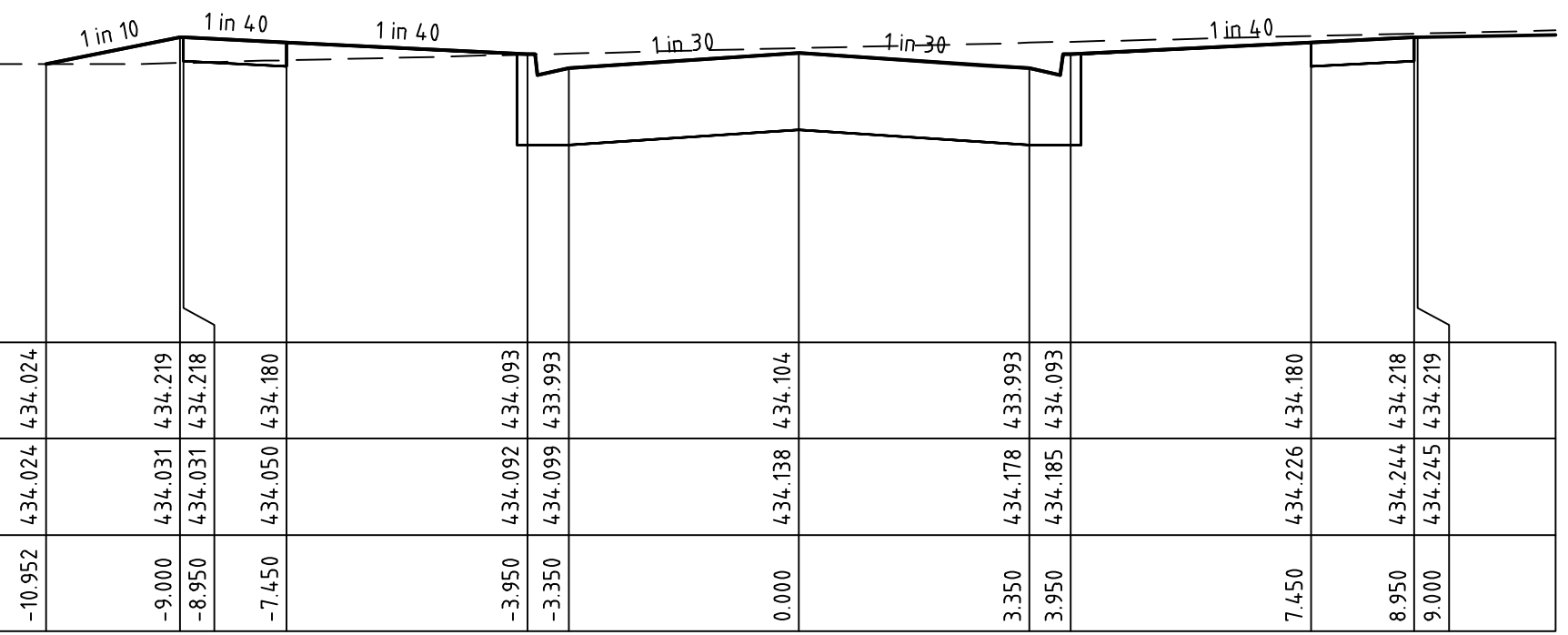
GOLDFINCH ROAD CH 161.01



GOLDFINCH ROAD CH 136.01



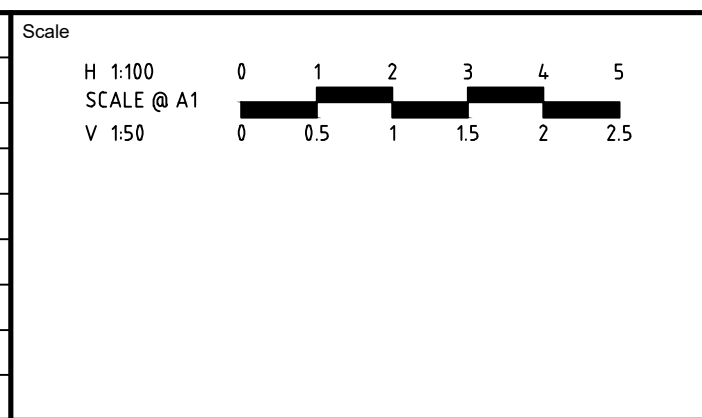
GOLDFINCH ROAD CH 114.00



GOLDFINCH ROAD CH 104.00

file name: 308512CR400.dwg, layout name: CH 0.00, plotted by: Mitchell Wright, file location: \\spire\projects\308512\308512.dwg, plot date: 12/02/2021, 8:59 AM, Sheet 7 of 19 Sheets

Rev	Description	Approved	Date
(A)	PRELIMINARY ISSUE	A.W	11/02/21
	Amendments		



System Certified

 © Spiire Australia Pty Ltd All Rights Reserved

This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

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

Designed M. WRIGHT	Checked
Authorised A. WILKIE	Date

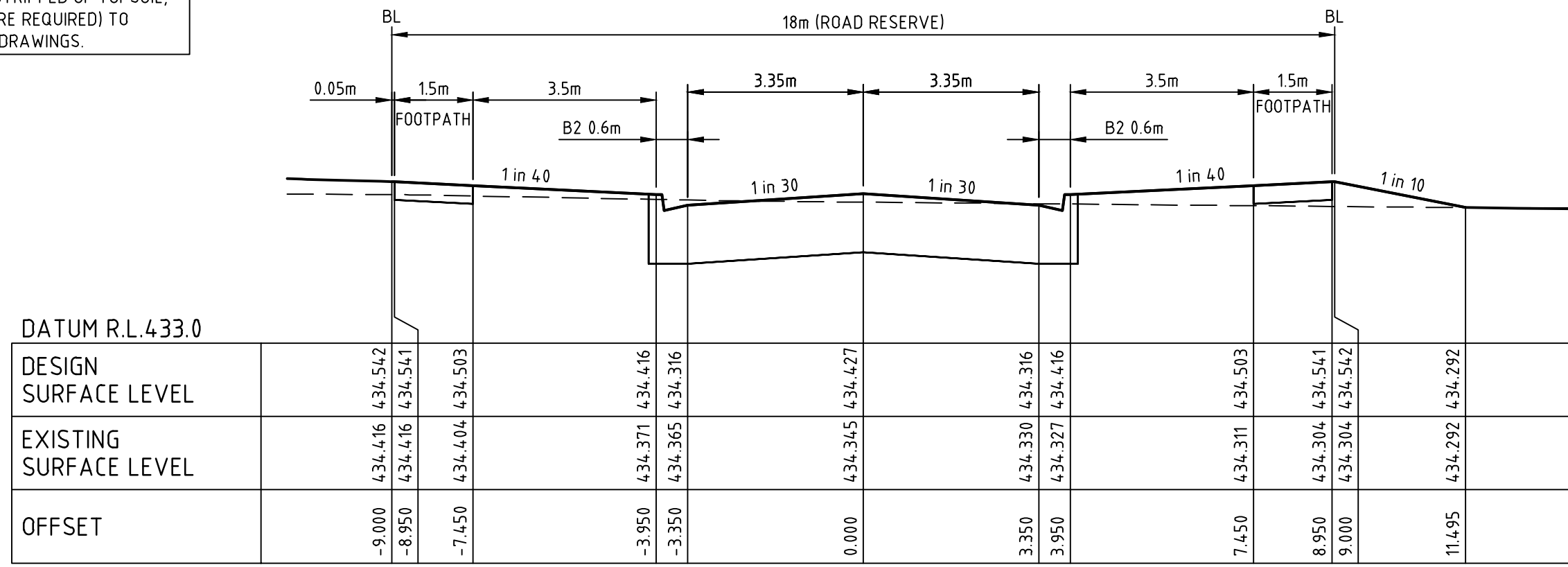
CONROY'S GREEN
STAGE 3
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - SHEET 1
 CITY OF BALLARAT
 SAN HUBERTO PROPERTY

PRELIMINARY

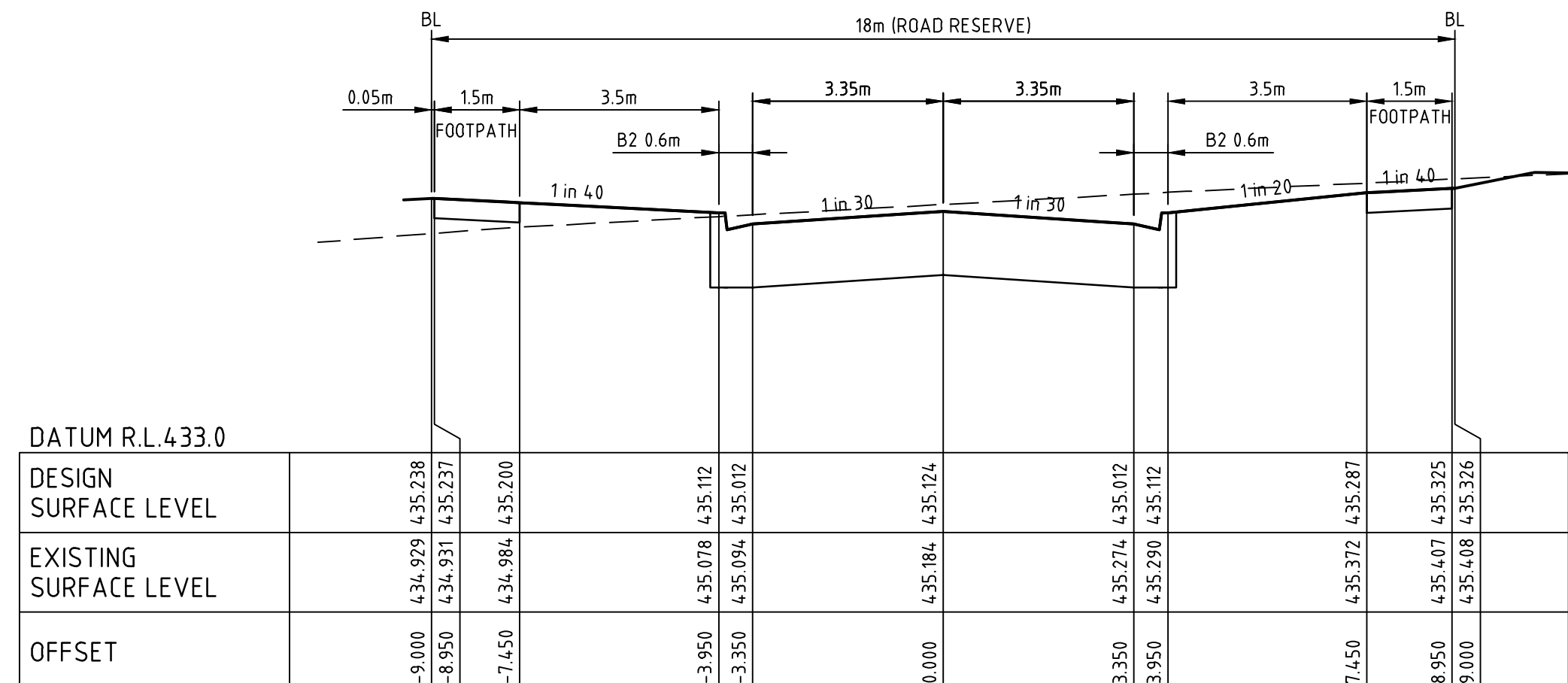
 Drg No
308512CR400

 Rev
(A)

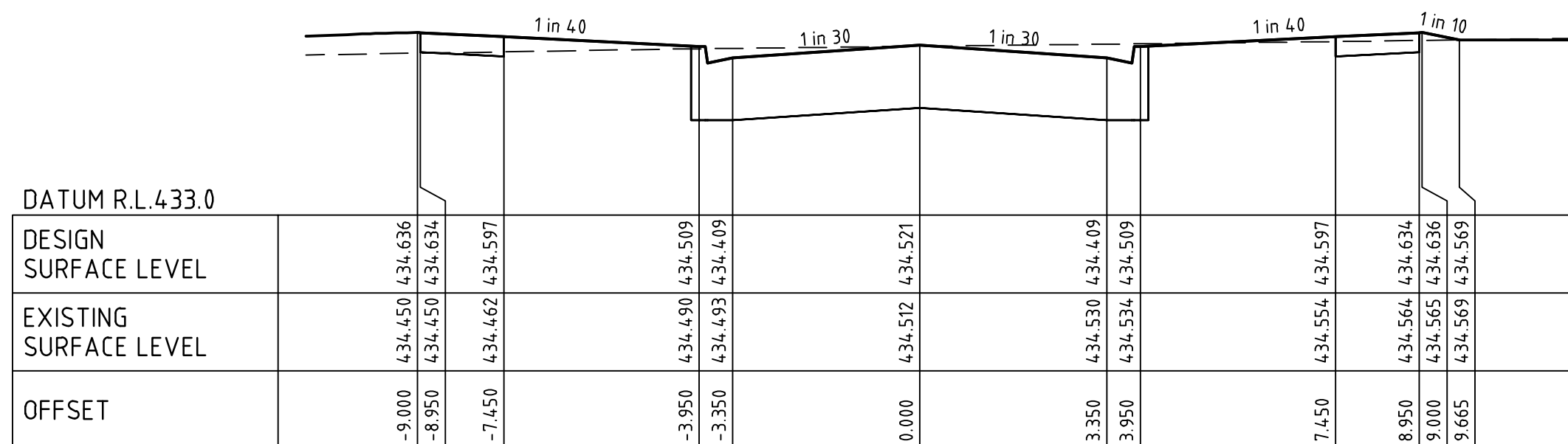
FILLING NOTE
 ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN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



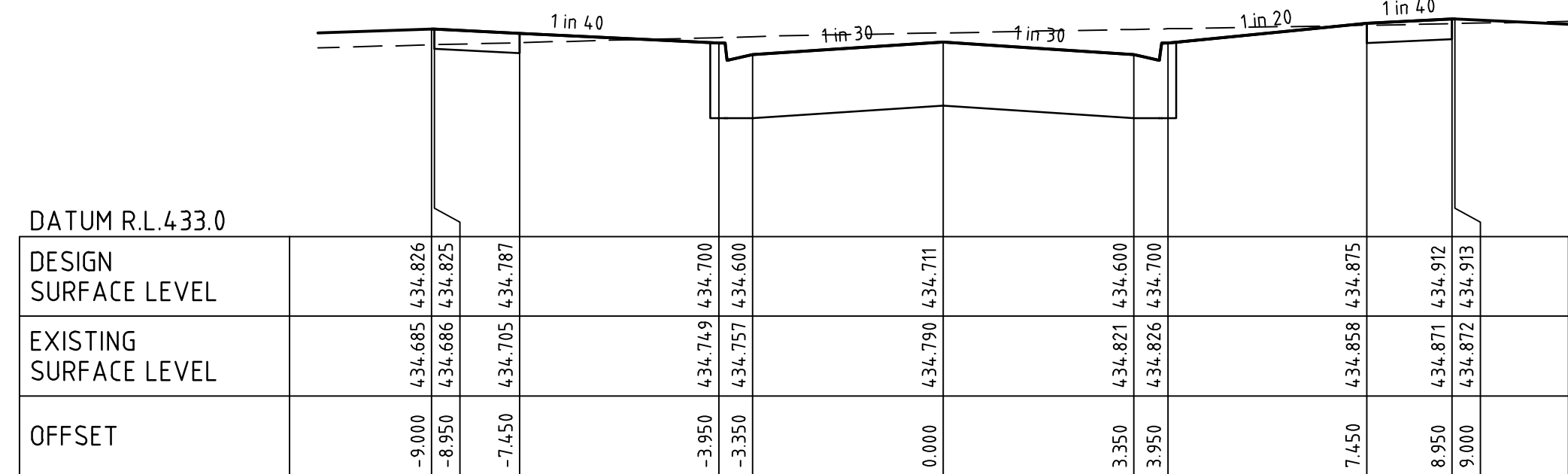
COROMANT GRANGE CH 77.14



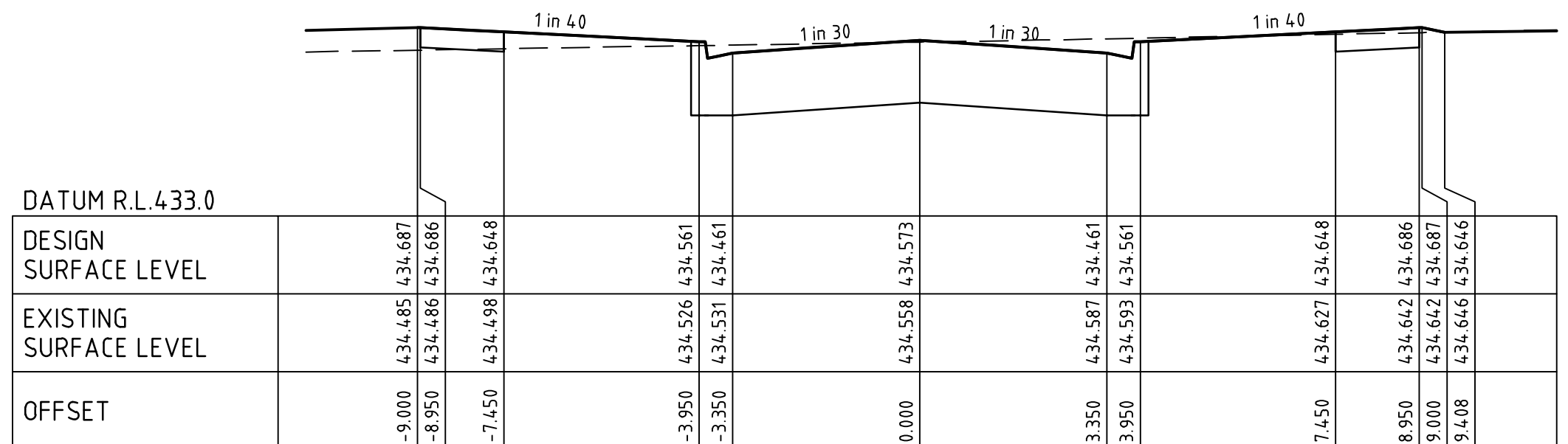
COROMANT GRANGE CH 164.19



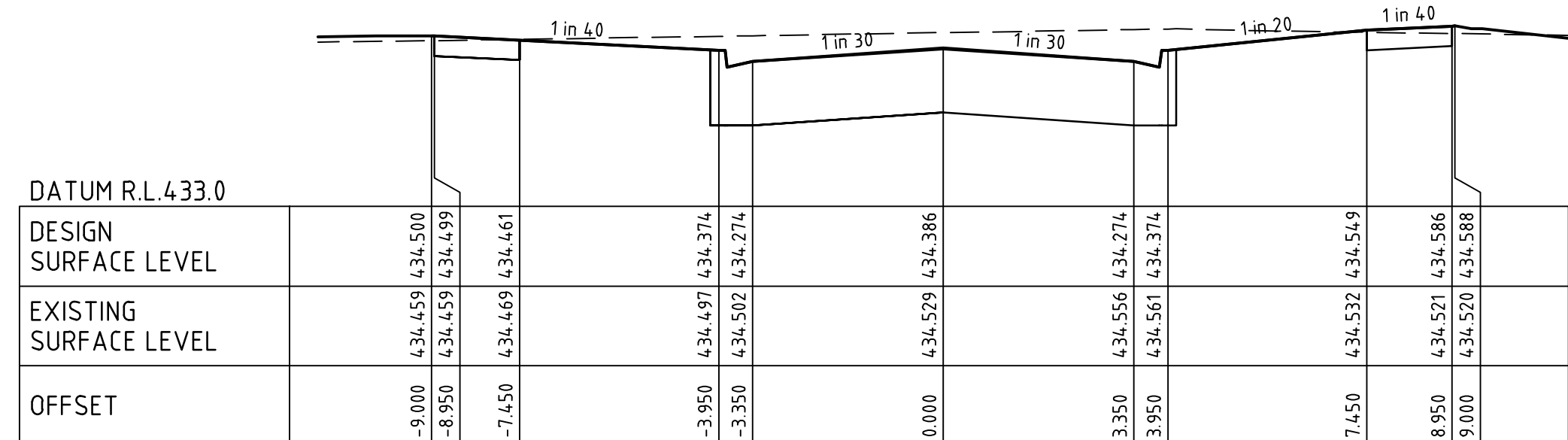
COROMANT GRANGE CH 58.36



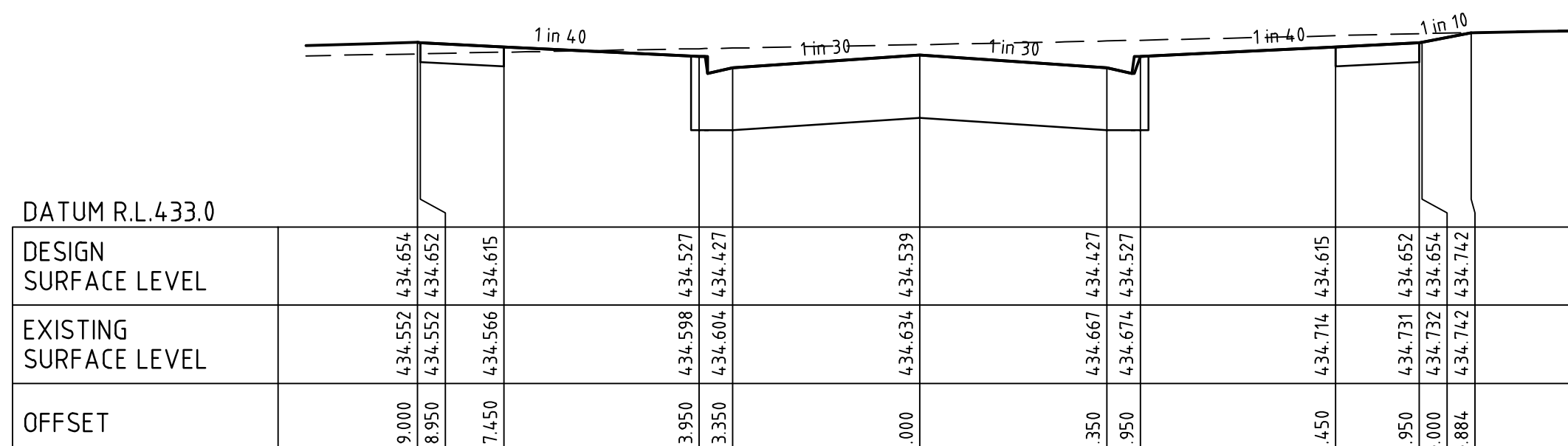
COROMANT GRANGE CH 136.69



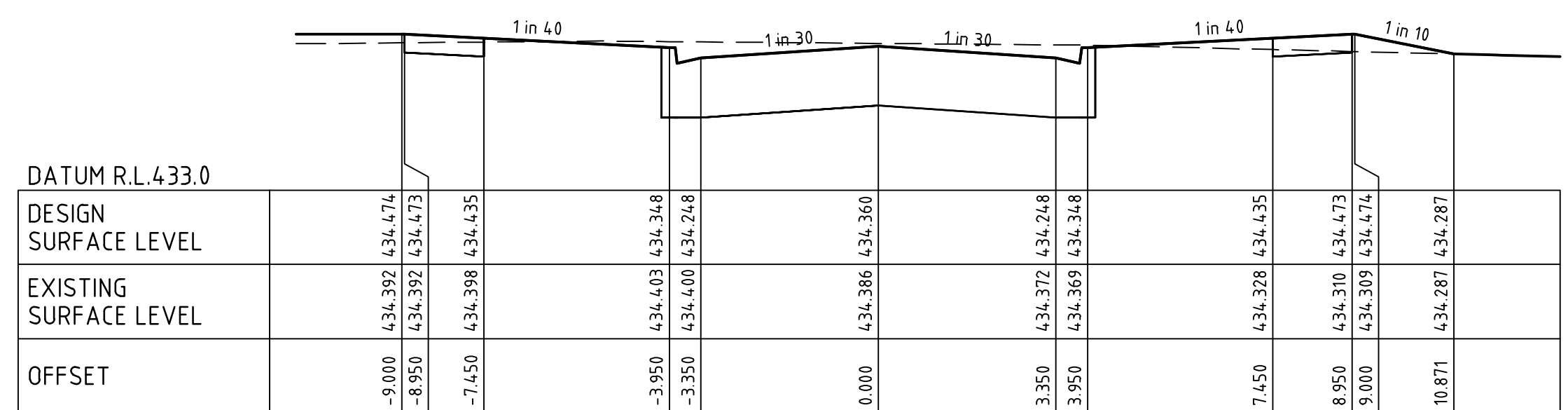
COROMANT GRANGE CH 48.06



COROMANT GRANGE CH 114.69



COROMANT GRANGE CH 19.73



COROMANT GRANGE CH 90.69

file name: 308512CR400.dwg; Input: rcmc_C80.02; created by: Mitchell Wright; file location: \\spire\ben\data\308512\308512.dwg\A1.dwg; plot date: 12/02/2021 8:59 AM; Sheet 9 of 19 Sheets

Scale	H 1:100 SCALE @ A1 V 1:50
Scale	0 1 2 3 4 5 0 0.5 1 1.5 2 2.5
ISO 9001	Registered
ISO 45001	Registered
ISO 14001	Registered
System Certified	
© Spiire Australia Pty Ltd All Rights Reserved	
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.	
Rev	(A) PRELIMINARY ISSUE
Rev	Amendments
AW	11/02/21
Approved	Date

© Spiire Australia Pty Ltd All Rights Reserved
 This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

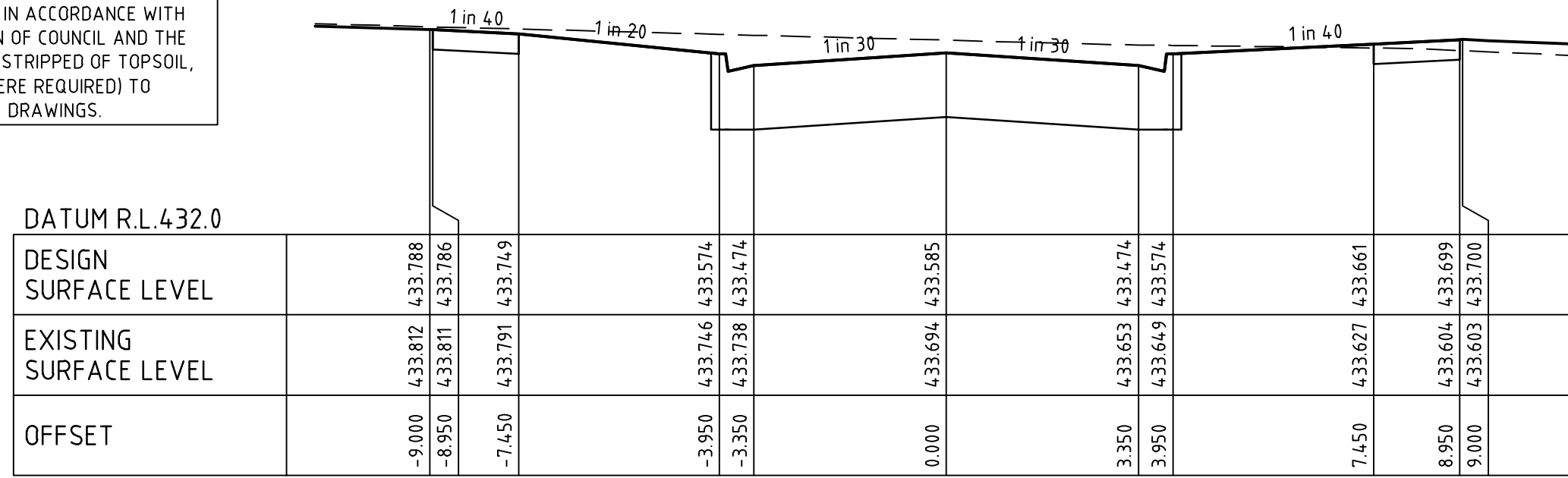
16 BRIDGE STREET BENDIGO
 VICTORIA 3550 AUSTRALIA T 61 3 5448 2500
 spiire.com.au ABN 55 050 029 635

Designed	Checked
M. WRIGHT	
Authorised	Date
A. WILKIE	

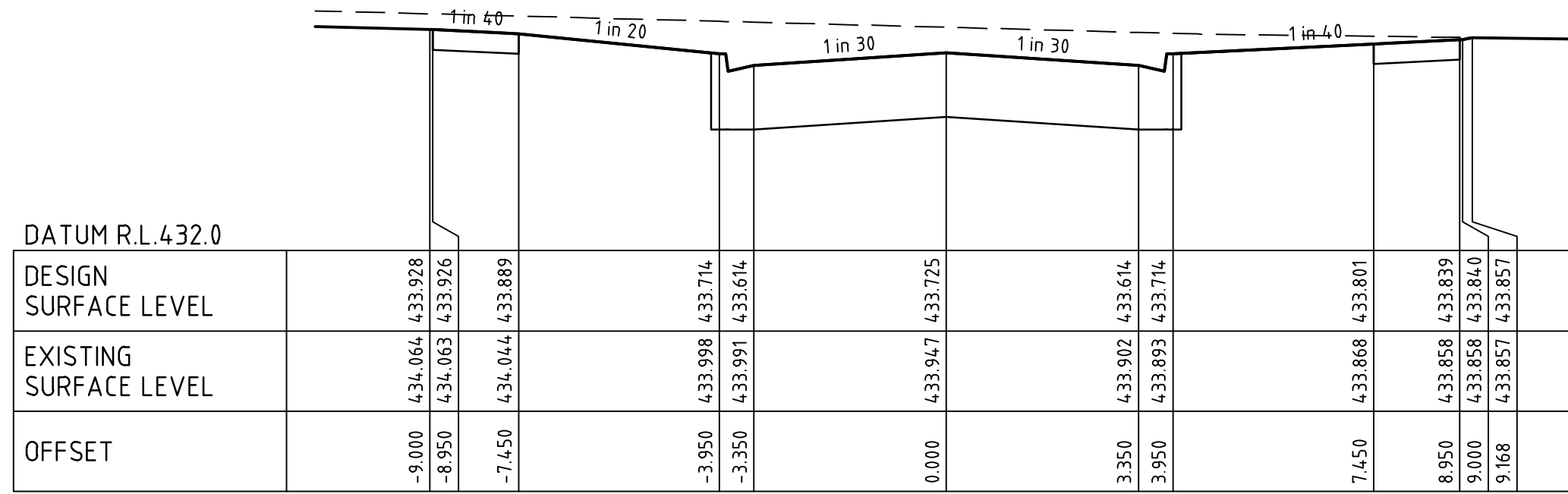
CONROY'S GREEN
STAGE 3
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - SHEET 3
 CITY OF BALLARAT
 SAN HUBERTO PROPERTY

PRELIMINARY Dwg No 308512CR402 Rev (A)

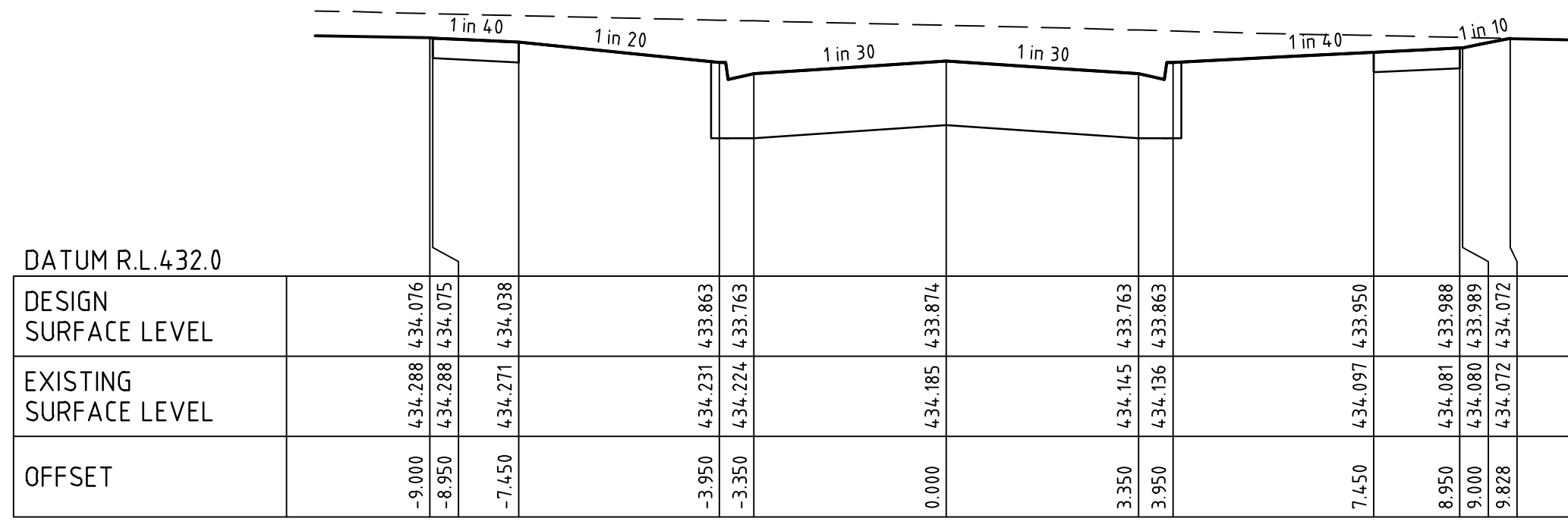
FILLING NOTE
 ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN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



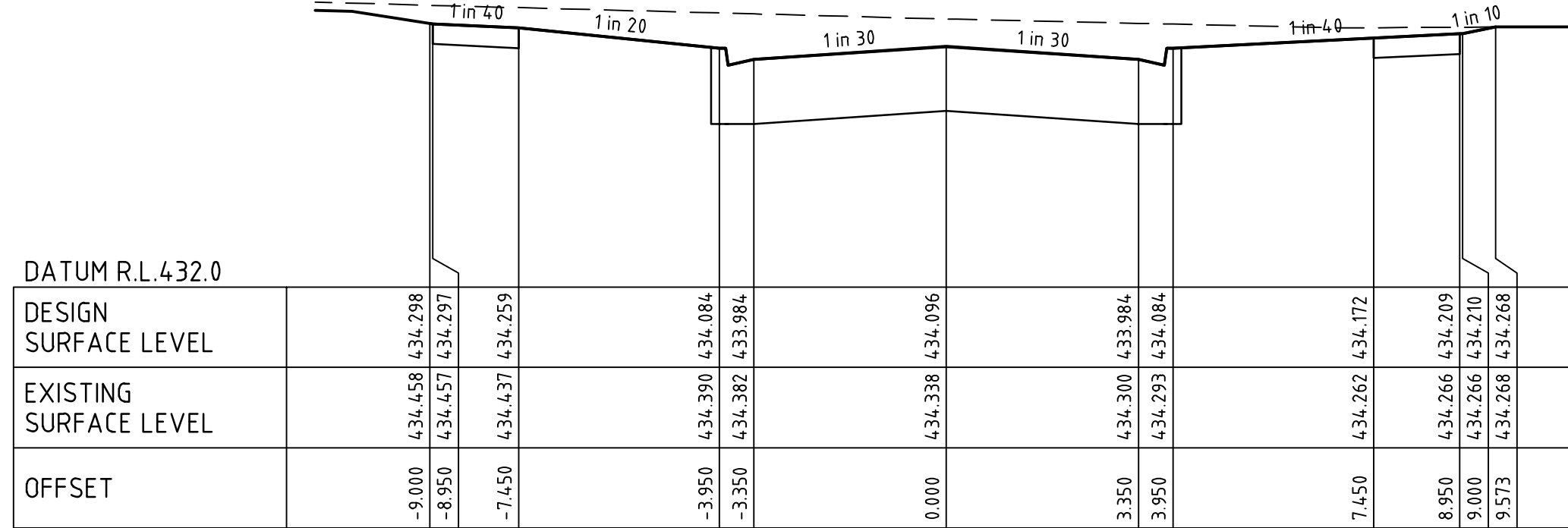
LARK STREET CH 70.03



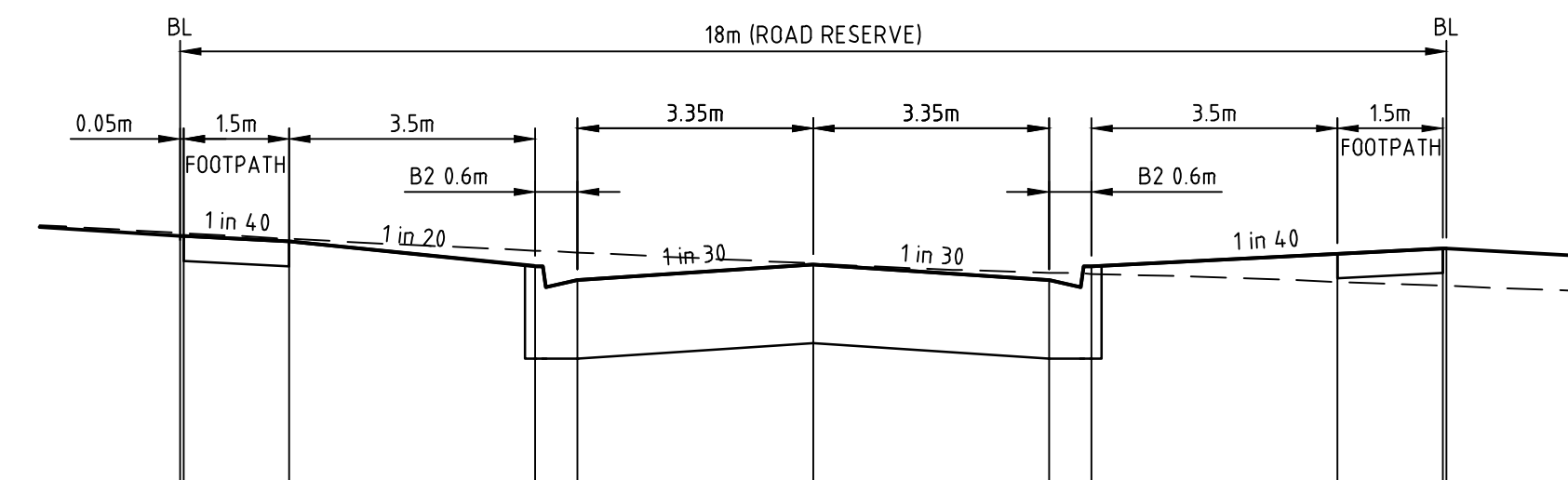
LARK STREET CH 54.03



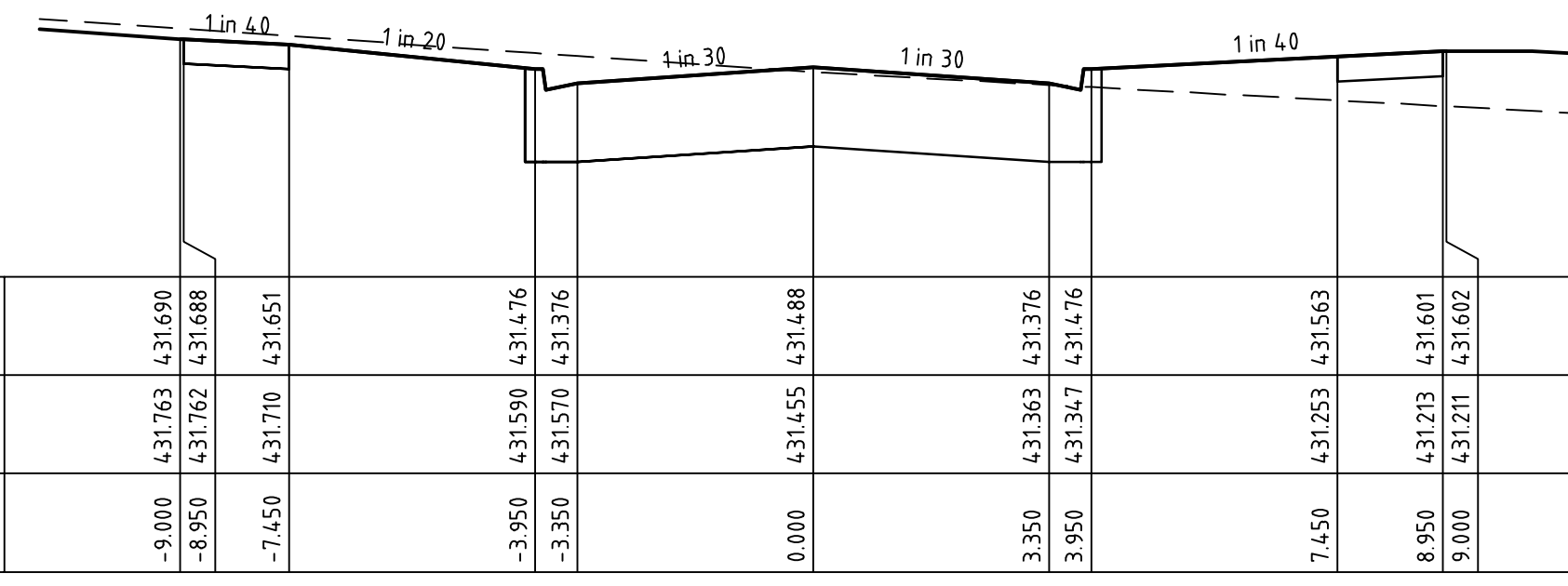
LARK STREET CH 37.03



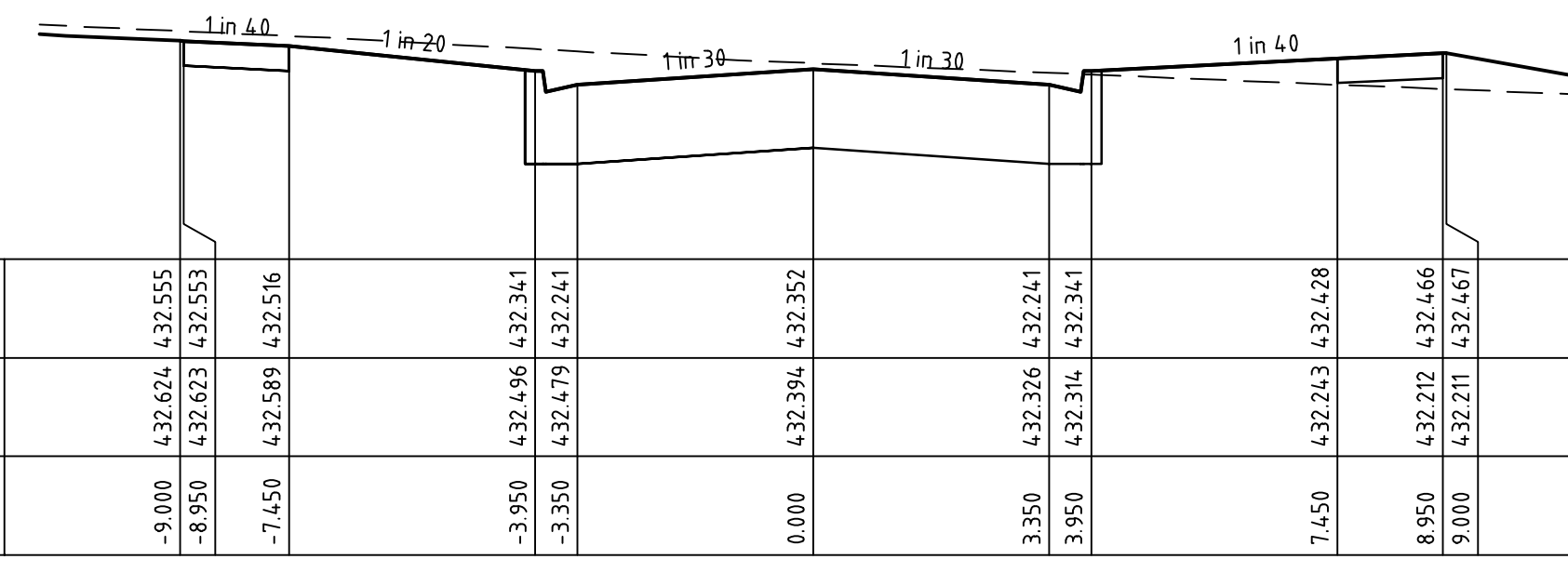
LARK STREET CH 12.00



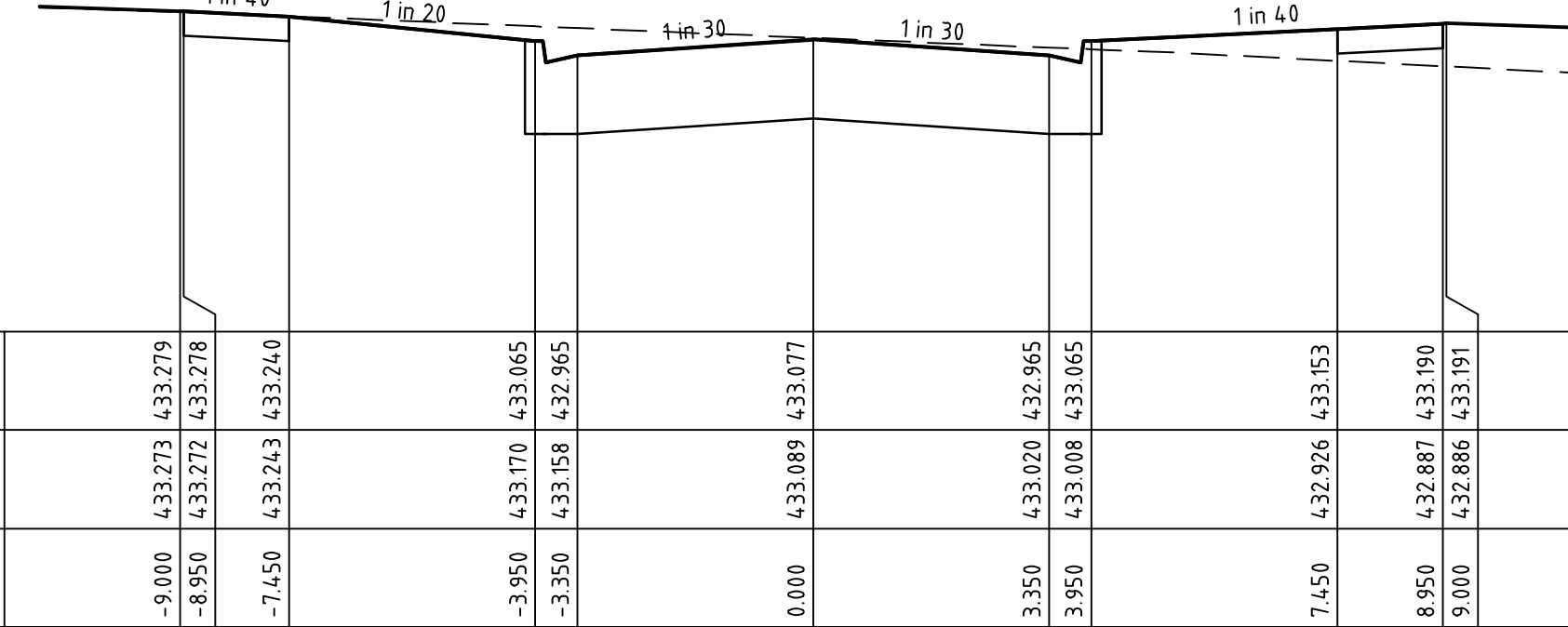
LARK STREET CH 160.03



LARK STREET CH 143.03



LARK STREET CH 119.03



LARK STREET CH 100.03

file name: 308512CR403.dwg; Input: rcmc_CD03; created by: Mitchell Wright; file location: \\spire\projects\308512\308512.dwg; plot date: 12/02/2021 8:59 AM; Sheet 10 of 19 Sheets

Scale	H 1:100 SCALE @ A1 V 1:50		
Scale	0 0.5 1 1.5 2 2.5		
ISO 9001	ISO 45001	ISO 14001	
System Certified			
© Spiire Australia Pty Ltd All Rights Reserved			
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.			
Rev	(A) PRELIMINARY ISSUE	A.W	11/02/21
Rev	Amendments	Approved	Date



Designed
M. WRIGHT

Checked

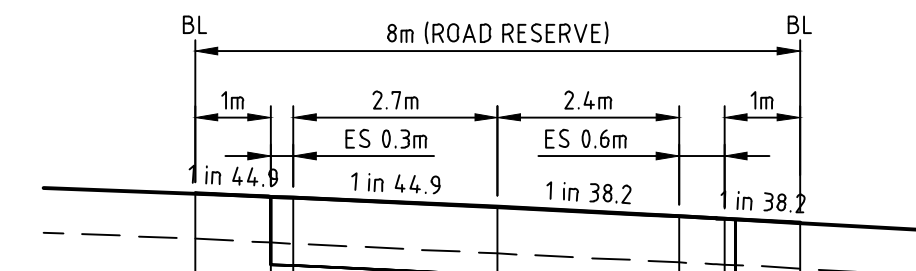
Authorised
A. WILKIE

Date

CONROY'S GREEN
STAGE 3
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - SHEET 4
 CITY OF BALLARAT
 SAN HUBERTO PROPERTY

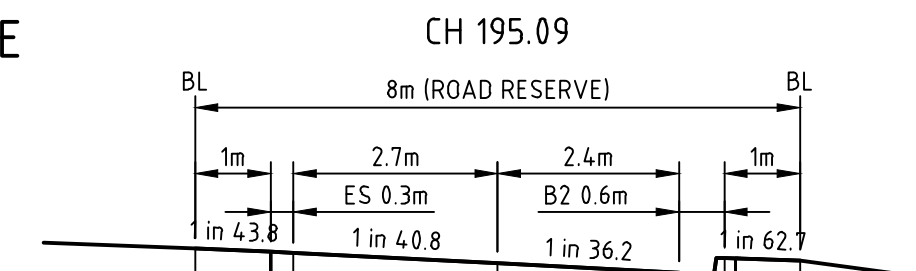
PRELIMINARY Drg No 308512CR403 Rev (A)

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.



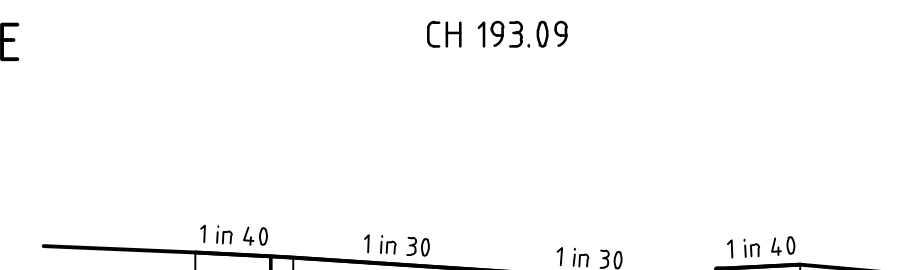
DATUM R.L. 432.0

DESIGN SURFACE LEVEL		433.472	433.449	433.443	433.383	433.320	433.304	433.278
EXISTING SURFACE LEVEL		433.171	433.147	433.139	433.074	433.015	433.001	432.974
OFFSET		-4.000	-3.000	-2.700	0.000	2.400	3.000	4.000



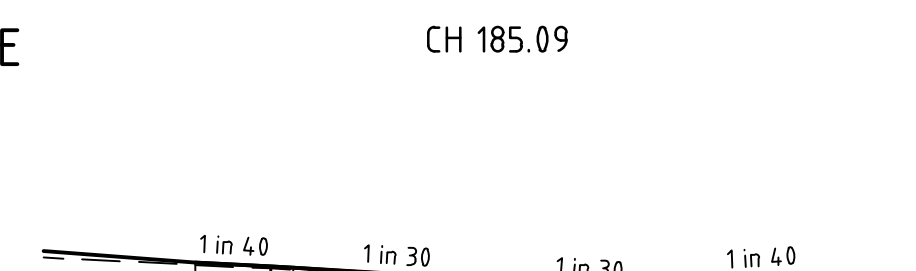
DATUM R.L. 432.0

DESIGN SURFACE LEVEL		433.399	433.376	433.369	433.303	433.236	433.236	433.220
EXISTING SURFACE LEVEL		433.120	433.095	433.088	433.022	432.964	432.949	432.922
OFFSET		-4.000	-3.000	-2.700	0.000	2.400	3.000	4.000



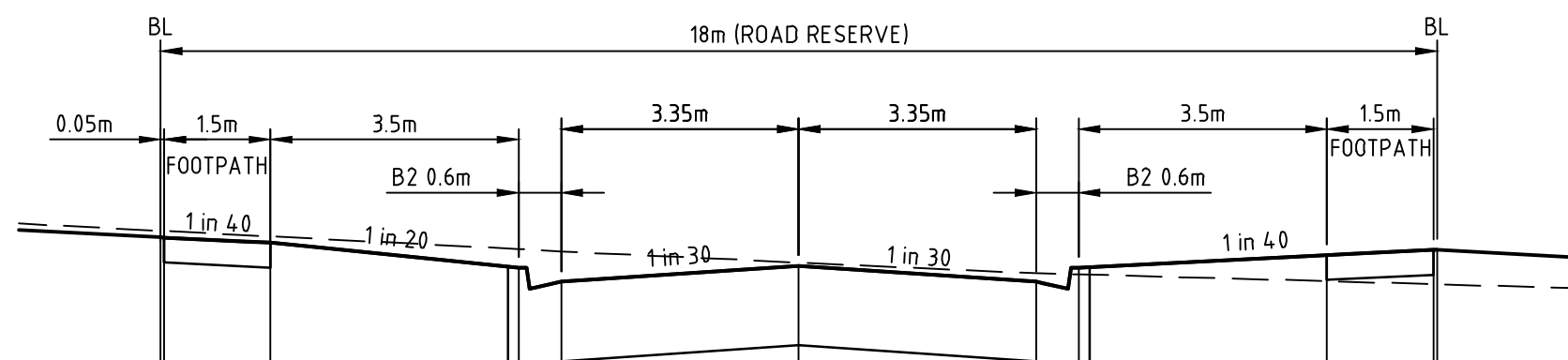
DATUM R.L. 431.0

DESIGN SURFACE LEVEL		433.108	433.083	433.073	432.983	432.903	433.003	433.028
EXISTING SURFACE LEVEL		432.914	432.890	432.883	432.817	432.759	432.744	432.718
OFFSET		-4.000	-3.000	-2.700	0.000	2.400	3.000	4.000



DATUM R.L. 431.0

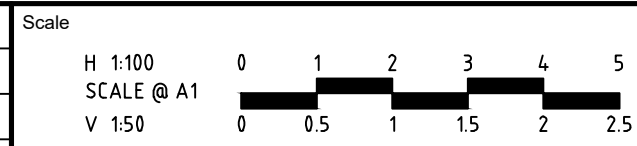
DESIGN SURFACE LEVEL		432.481	432.456	432.446	432.356	432.276	432.376	432.401
EXISTING SURFACE LEVEL		432.464	432.440	432.432	432.368	432.312	432.297	432.274
OFFSET		-4.000	-3.000	-2.700	0.000	2.400	3.000	4.000



DATUM R.L. 429.0

DESIGN SURFACE LEVEL		430.753	430.752	430.715	430.540	430.440	430.551	430.440	430.540	430.627	430.665	430.666
EXISTING SURFACE LEVEL		430.799	430.798	430.759	430.670	430.654	430.576	430.502	430.493	430.444	430.423	430.422
OFFSET		-9.000	-8.950	-7.450	-3.950	-3.350	0.000	3.350	3.950	7.450	8.950	9.000

LARK STREET CH 174.03



© Spiire Australia Pty Ltd All Rights Reserved
 This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.



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

Designed
M. WRIGHT
 Authorised
A. WILKIE

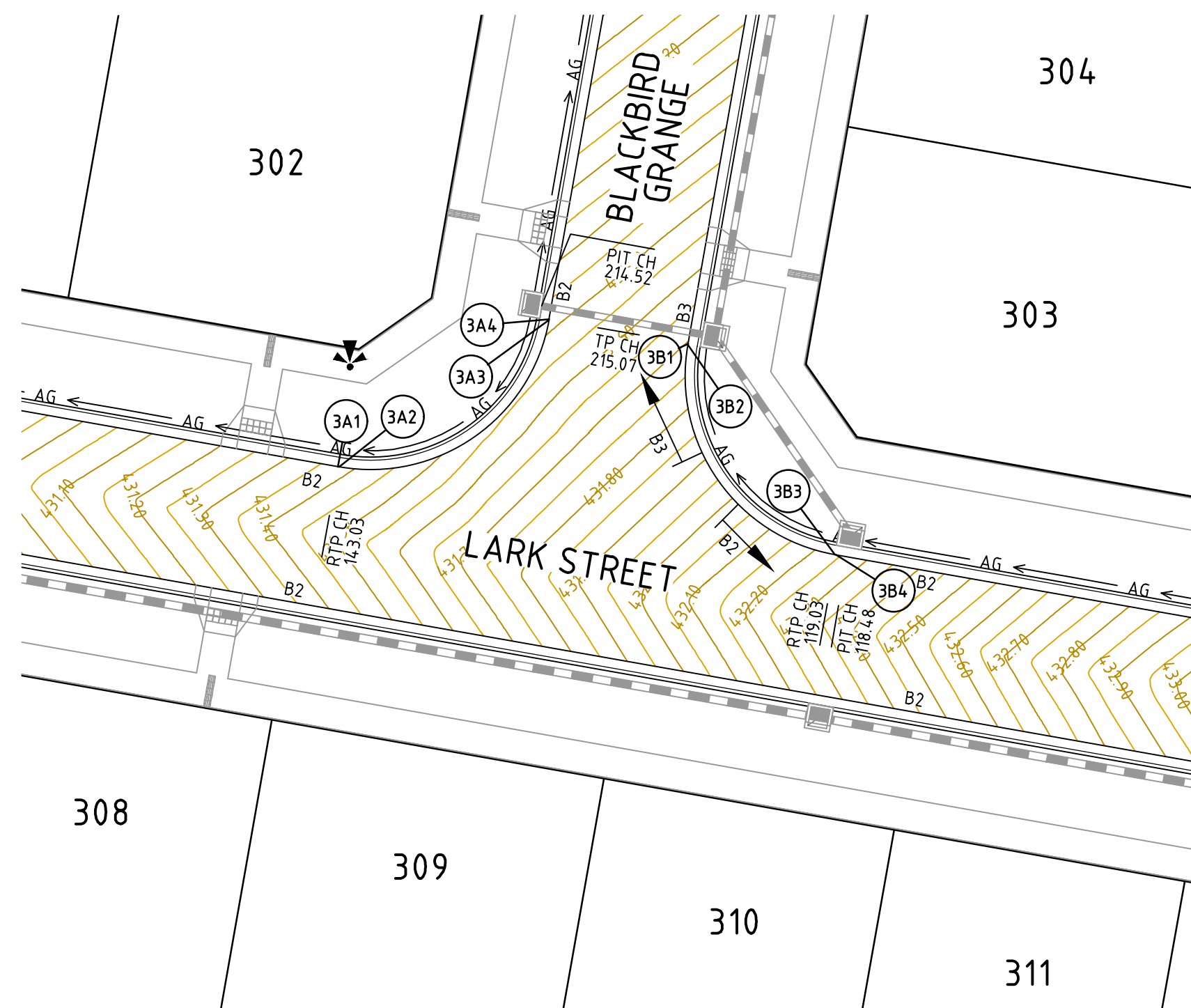
Checked
 Date

**CONROY'S GREEN
 STAGE 3
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - SHEET 5
 CITY OF BALLARAT
 SAN HUBERTO PROPERTY**

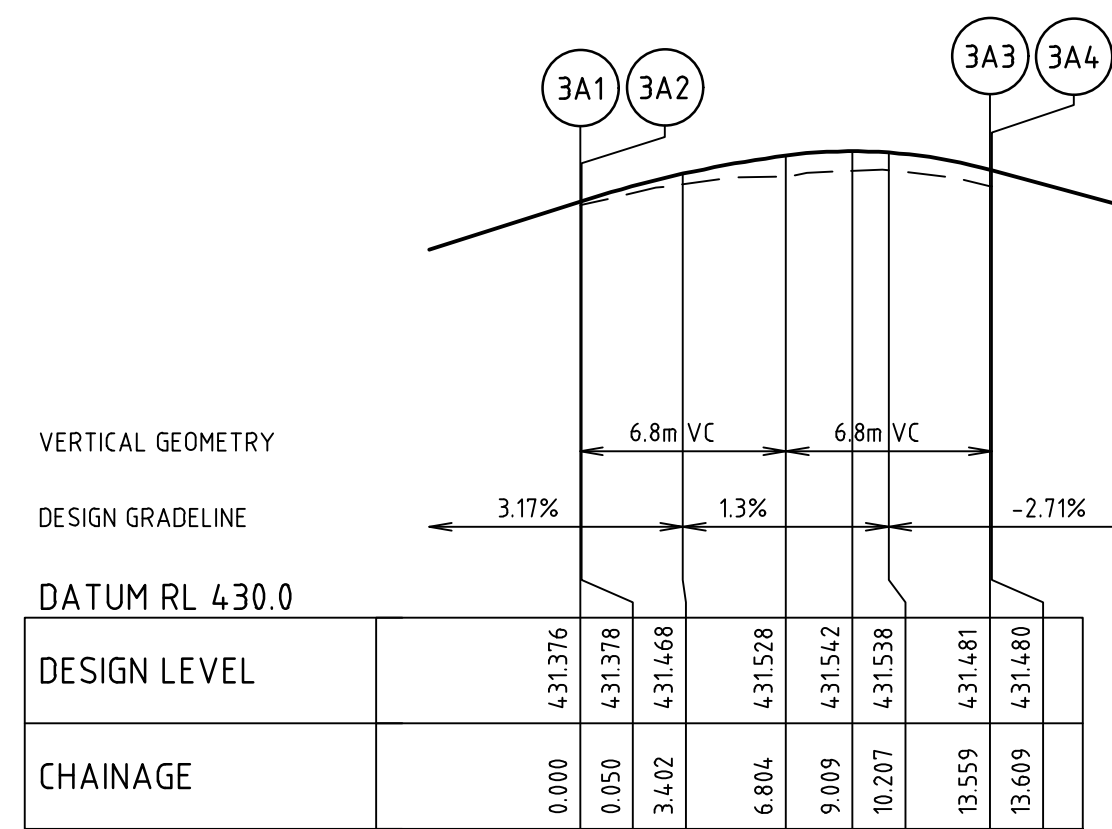
PRELIMINARY Dwg No **308512CR404** Rev **(A)**

file name: 308512CR404.dwg; Input: rcmc; CD: 04; Drawn by: Mitchell Wright; Date: 11/02/21; Plot date: 12/02/2021; 8:59 AM; Sheet 11 of 19 Sheets; Location: \\spiire\ballarat\308512; Plot: 308512; Plot date: 12/02/2021; 8:59 AM; Sheet 11 of 19 Sheets

Rev	(A)	PRELIMINARY ISSUE	A.W	11/02/21
		Amendments	Approved	Date



LARK STREET AND BLACKBIRD GRANGE
LIP OF KERB 3A & 3B

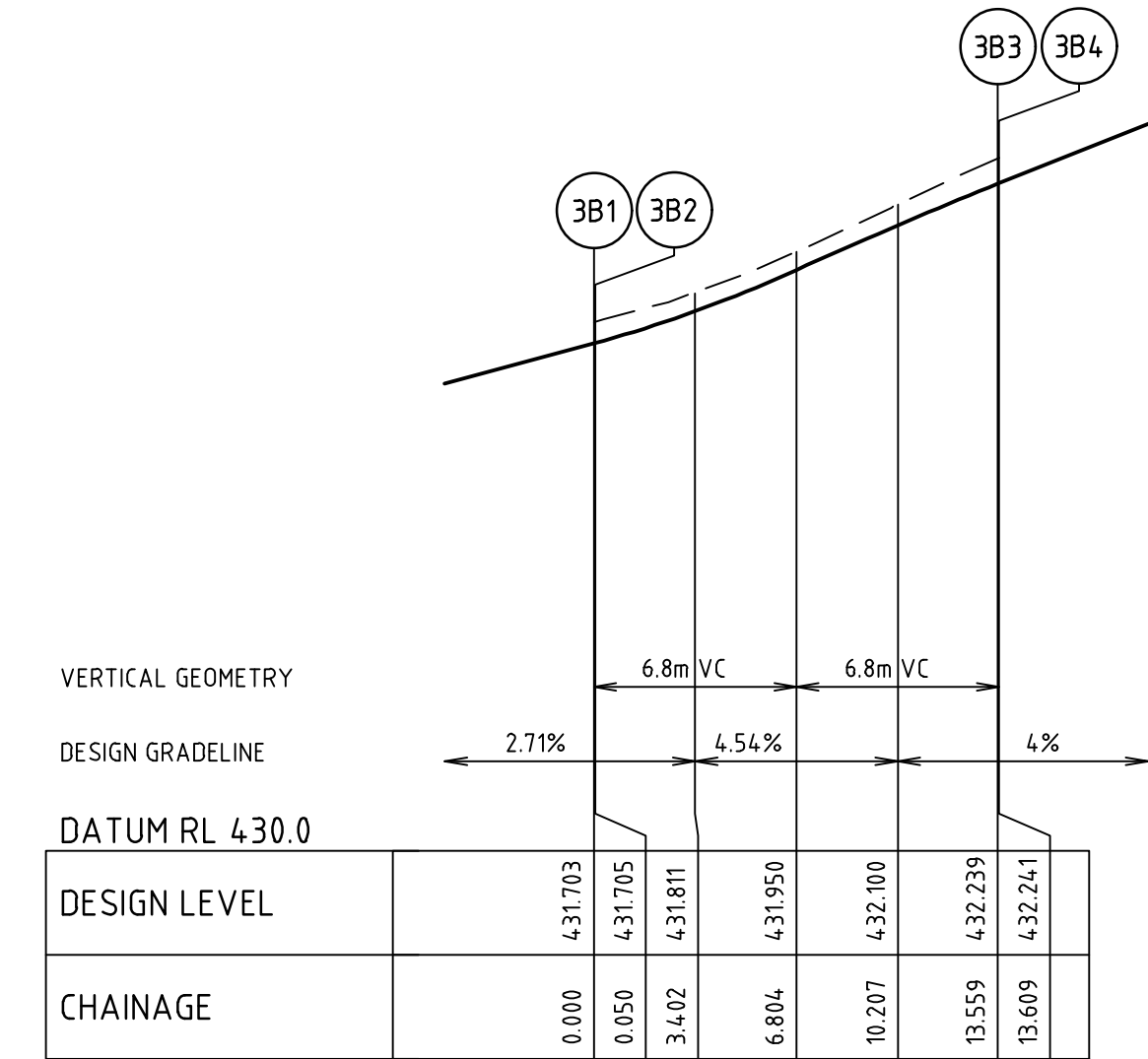


ALIGNMENT 3A

ALIGNMENT 3A

POINT NO	EASTING	NORTHING	RL	CHAINAGE
3A1	745764.379	5837480.246	431.376	0.000
3A2	745764.428	5837480.237	431.378	0.050
¼	745767.783	5837480.309	431.468	3.427
½	745770.855	5837481.660	431.528	6.804
¾	745773.176	5837484.083	431.538	10.182
3A3	745774.393	5837487.210	431.481	13.559
3A4	745774.402	5837487.259	431.480	13.609

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
3A2-3A3	8.600	13.509	12.162	2.519	0.655

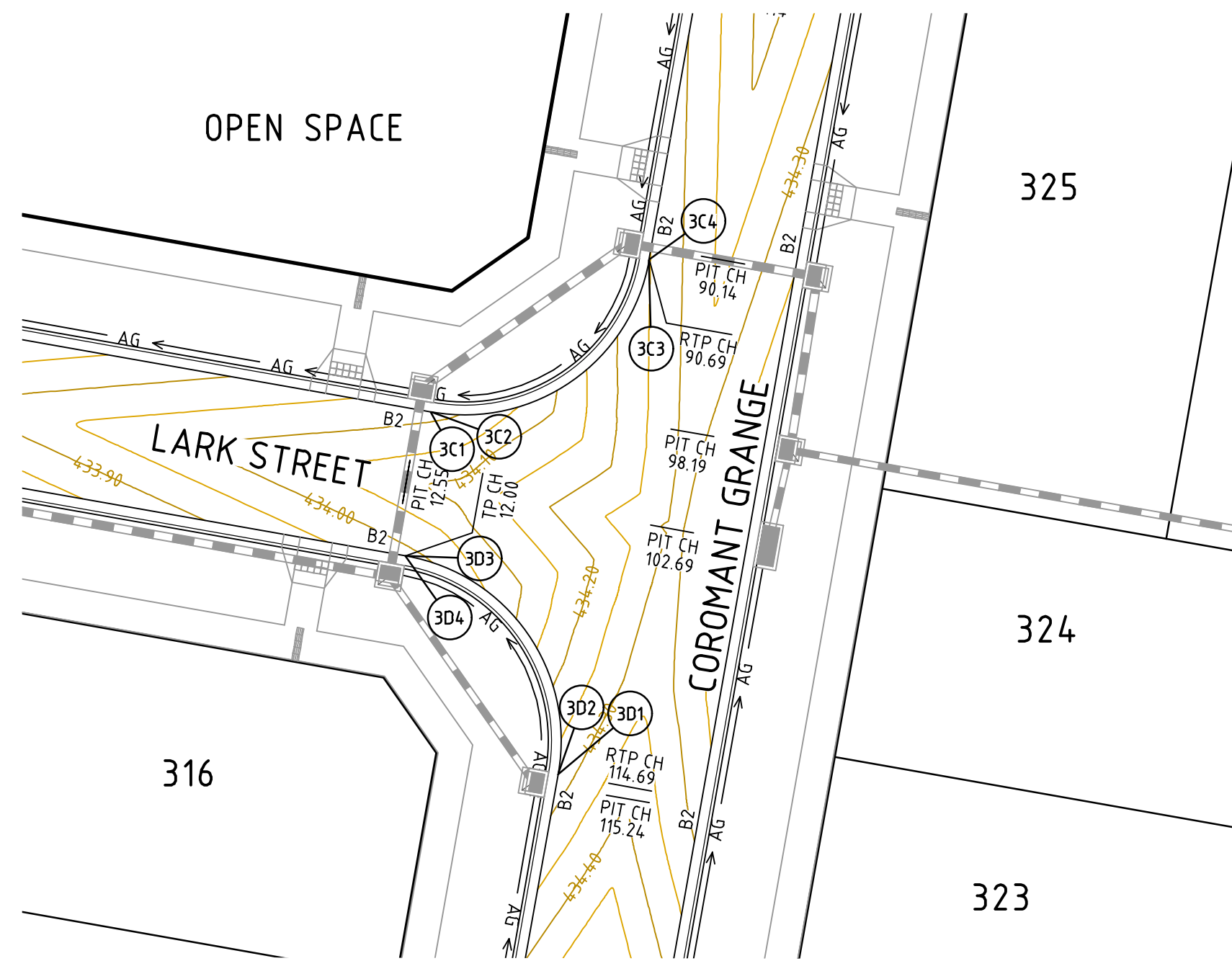


ALIGNMENT 3B

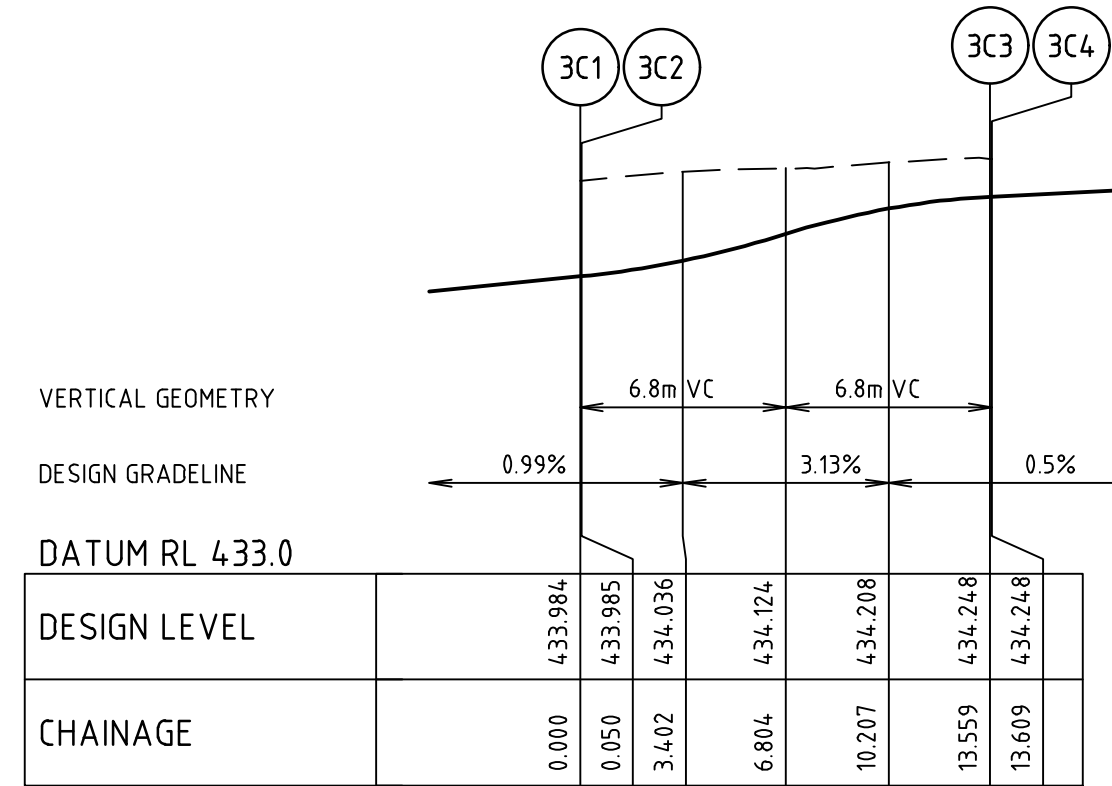
ALIGNMENT 3B

POINT NO	EASTING	NORTHING	RL	CHAINAGE
3B1	745781.000	5837486.093	431.703	0.000
3B2	745780.991	5837486.044	431.705	0.050
¼	745781.063	5837482.689	431.812	3.427
½	745782.413	5837479.617	431.950	6.804
¾	745784.836	5837477.296	432.099	10.182
3B3	745787.963	5837476.078	432.239	13.559
3B4	745788.013	5837476.069	432.241	13.609

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
3B2-3B3	8.600	13.509	12.162	2.519	0.655



LARK STREET AND COROMANT GRANGE
LIP OF KERB 3C & 3D

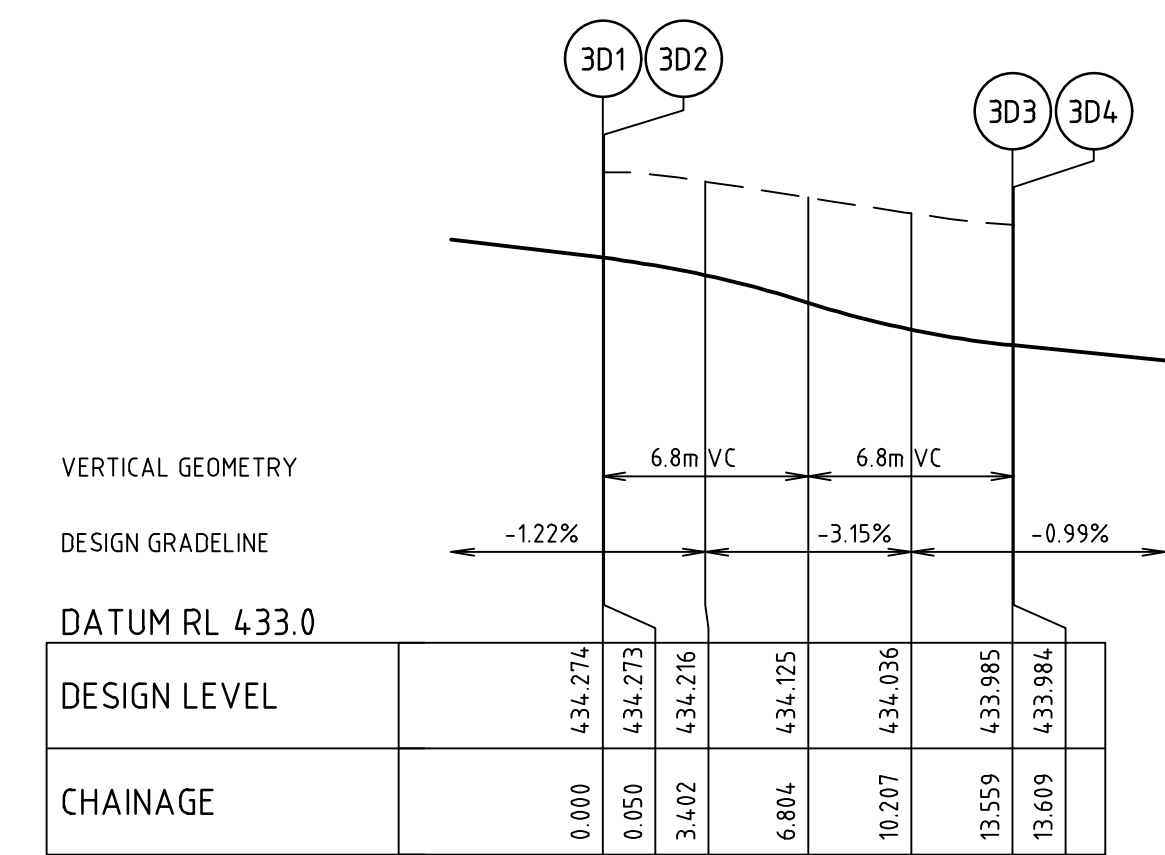


ALIGNMENT 3C

ALIGNMENT 3C

POINT NO	EASTING	NORTHING	RL	CHAINAGE
3C1	745893.409	5837457.443	433.984	0.000
3C2	745893.459	5837457.434	433.985	0.050
¼	745896.813	5837457.506	434.037	3.427
½	745899.885	5837458.856	434.124	6.804
¾	745902.207	5837461.279	434.208	10.182
3C3	745903.424	5837464.406	434.248	13.559
3C4	745903.433	5837464.456	434.248	13.609

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
3C2-3C3	8.600	13.509	12.162	2.519	0.655

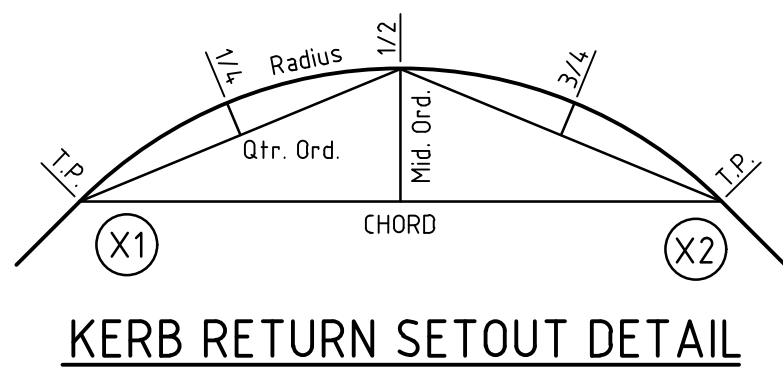


ALIGNMENT 3D

ALIGNMENT 3D

POINT NO	EASTING	NORTHING	RL	CHAINAGE
3D1	745899.256	5837440.822	434.274	0.000
3D2	745899.265	5837440.811	434.273	0.050
¼	745899.193	5837444.226	434.215	3.427
½	745897.843	5837447.298	434.125	6.804
¾	745895.419	5837449.619	434.037	10.182
3D3	745892.293	5837450.837	433.985	13.559
3D4	745892.243	5837450.845	433.984	13.609

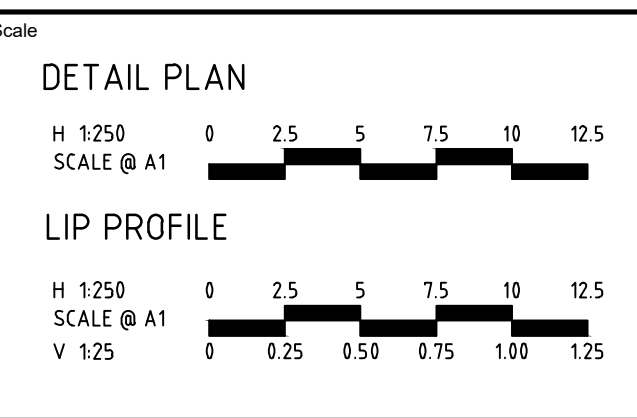
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
3D2-3D3	8.600	13.509	12.162	2.519	0.655



KERB RETURN SETOUT DETAIL

file name: 308512CR500.dwg, layout name: CSE500, checked by: Mitchell Wright, file location: \\spire\coromant\308512, title: 308512, plot date: 12/02/2021 8:59 AM, sheet: 12 of 19 sheets

Rev	Description	Approved	Date
(A)	PRELIMINARY ISSUE	A.W	11/02/21
	Amendments		



System Certified

 © Spiire Australia Pty Ltd All Rights Reserved

 This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

16 BRIDGE STREET BENDIGO

 VICTORIA 3550 AUSTRALIA T 61 3 5448 2500

 spiire.com.au ABN 55 050 029 635

Designed	Checked
M. WRIGHT	
Authorised	Date
A. WILKIE	

CONROY'S GREEN

STAGE 3

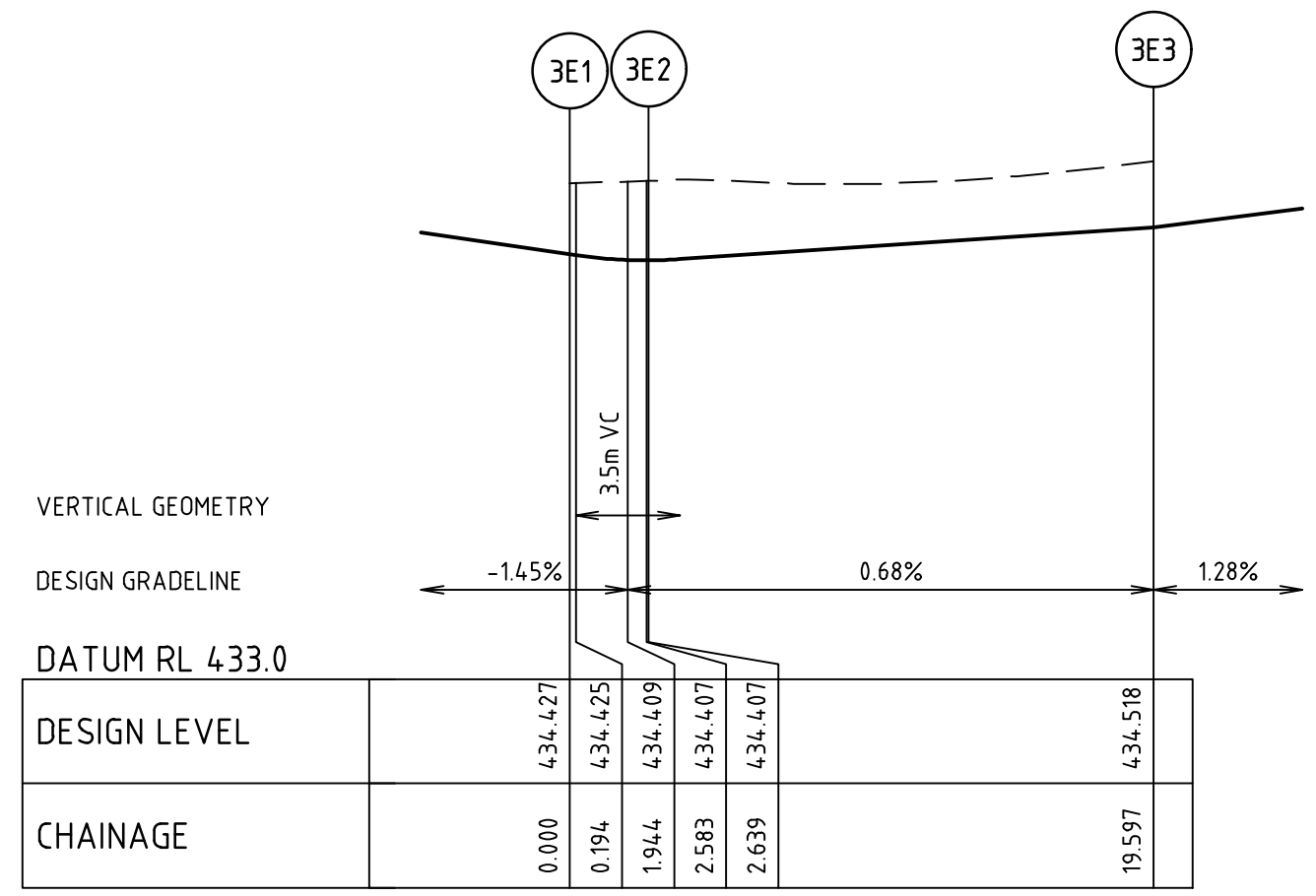
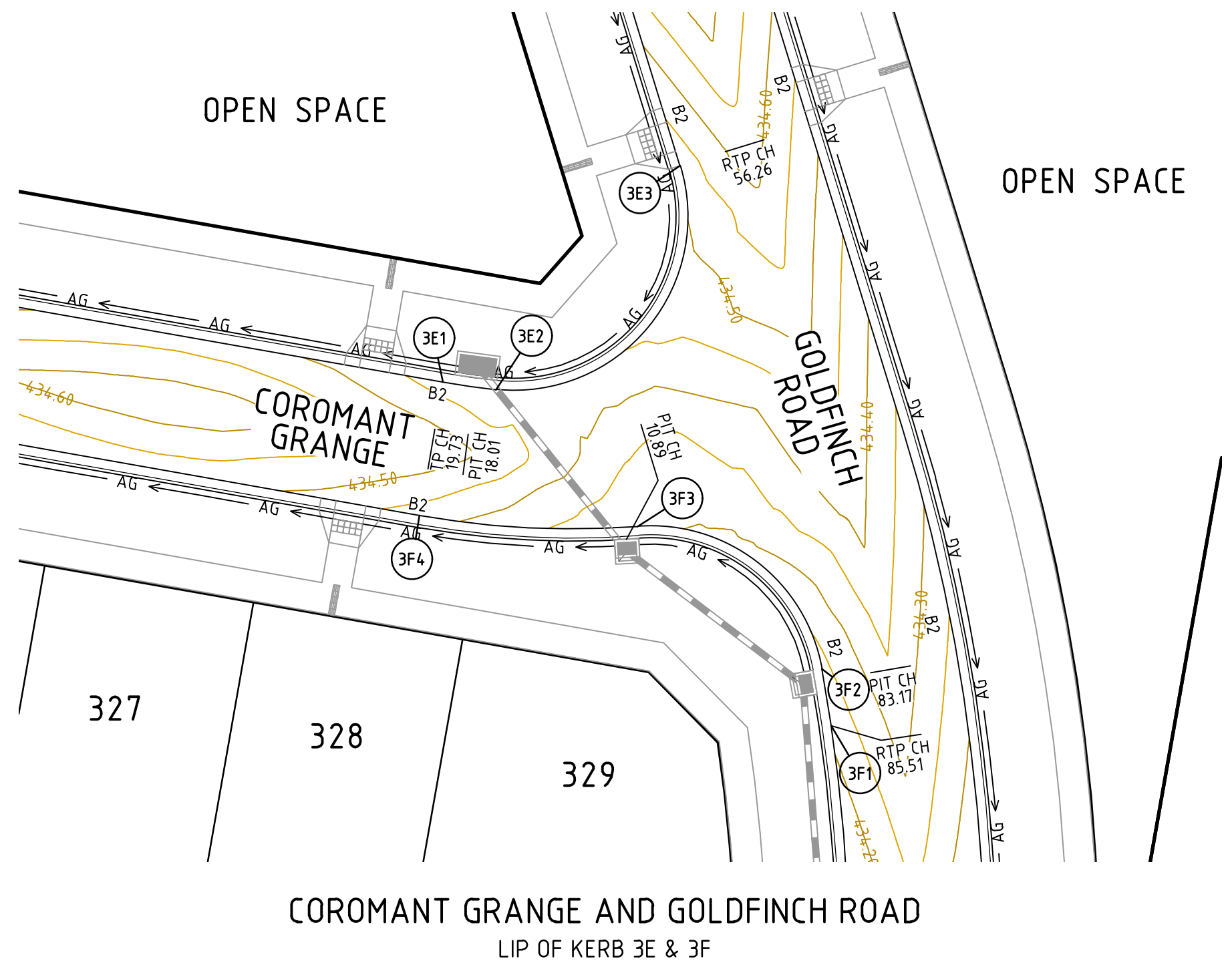
ROAD AND DRAINAGE

INTERSECTION DETAILS - SHEET 1

 CITY OF BALLARAT

 SAN HUBERTO PROPERTY

PRELIMINARY
Dwg No: 308512CR500 Rev: (A)

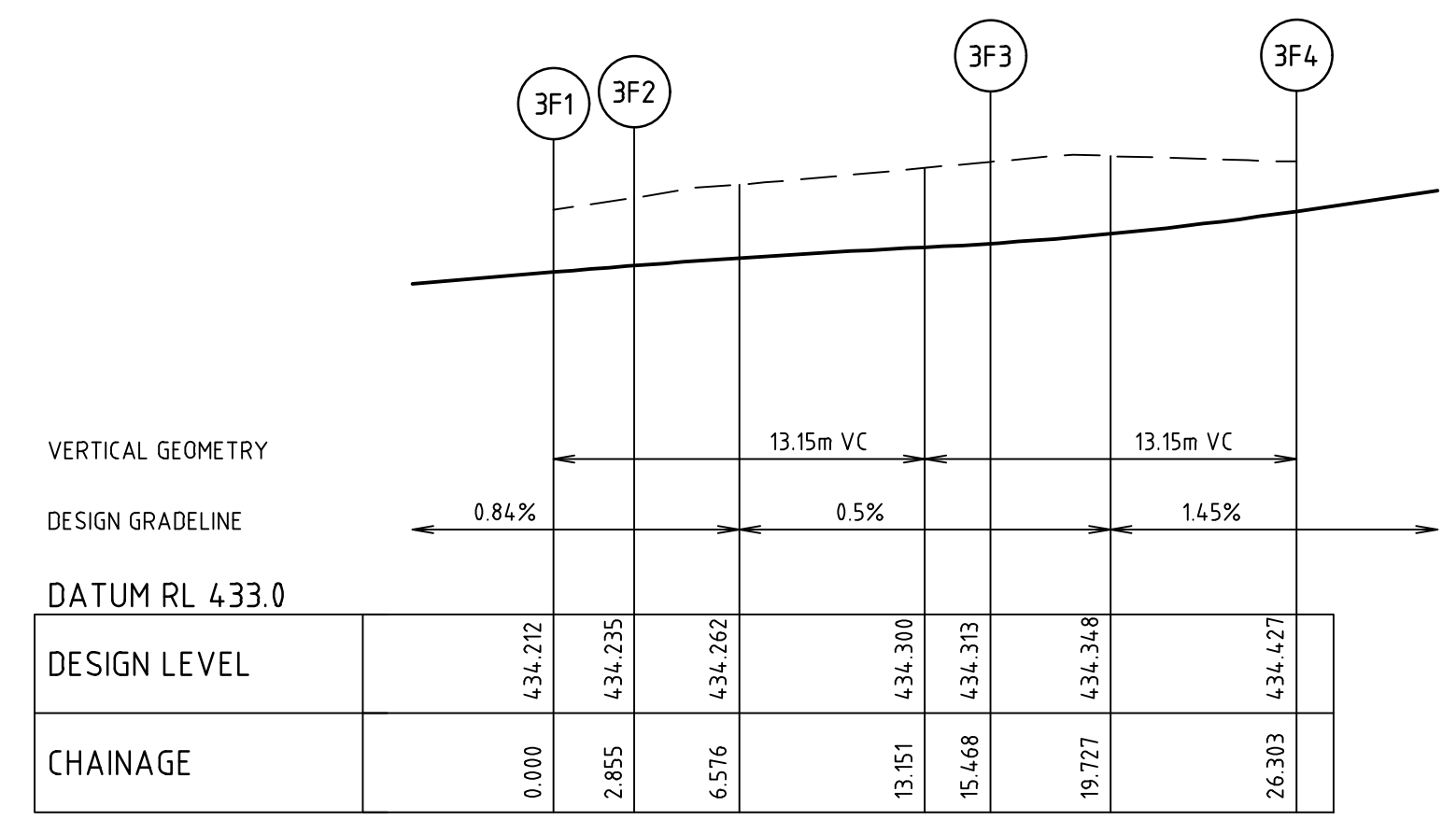


ALIGNMENT 3E

ALIGNMENT 3E

POINT NO	EASTING	NORTHING	RL	CHAINAGE
3E1	745961.568	5837483.479	434.427	0.000
3E2	745964.181	5837483.113	434.407	2.639
1/4	745968.334	5837483.714	434.433	6.878
1/2	745971.709	5837486.208	434.461	11.118
3/4	745973.502	5837490.003	434.490	15.357
3E3	745973.285	5837494.194	434.518	19.597

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
3E1-3E2	36.626	2.639	2.638	0.024	0.006
3E2-3E3	8.600	16.958	14.341	3.852	1.024

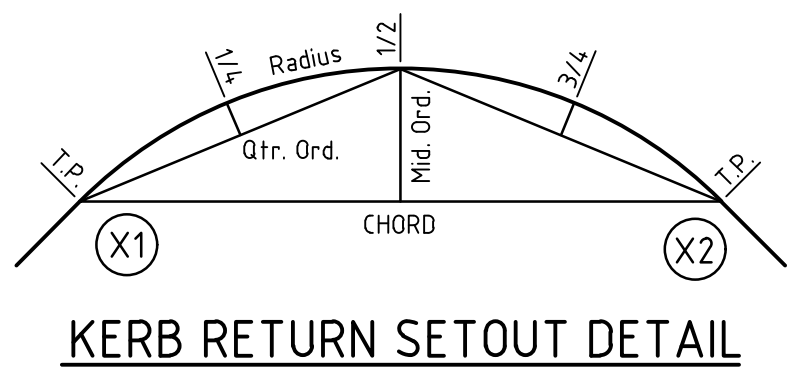


ALIGNMENT 3F

ALIGNMENT 3F

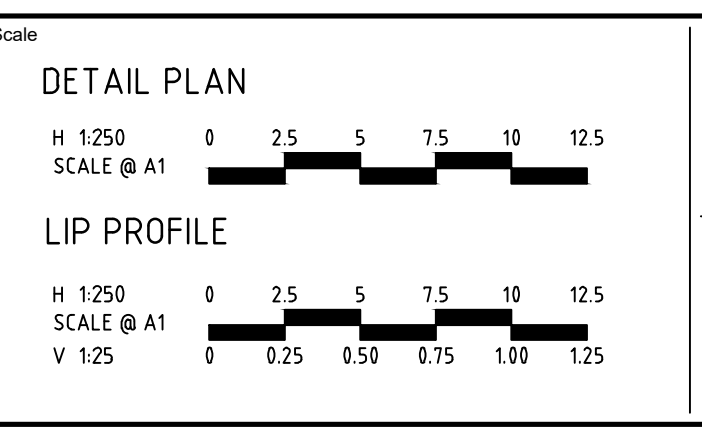
POINT NO	EASTING	NORTHING	RL	CHAINAGE
3F1	745980.764	5837466.481	434.212	0.000
1/4	745980.427	5837468.595	434.230	2.141
3F2	745980.303	5837469.298	434.235	2.855
1/4	745979.191	5837472.230	434.258	6.008
1/2	745977.101	5837474.568	434.278	9.161
3/4	745974.313	5837476.002	434.296	12.314
3F3	745971.196	5837476.341	434.313	15.468
1/4	745968.490	5837476.223	434.334	18.177
1/2	745965.782	5837476.273	434.360	20.885
3/4	745963.082	5837476.493	434.391	23.594
3F4	745960.402	5837476.881	434.427	26.303

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
3F1-3F2	85.650	2.855	2.855	0.012	0.003
3F2-3F3	8.600	12.613	11.513	2.211	0.572
3F3-3F4	43.350	10.835	10.807	0.338	0.085



file name: 308512CR501.dwg, layout name: CSE01, plotted by: Mitchell Wright, file location: \\spire\coromant\308512\308512.dwg, plot date: 17/02/2021, 8:59 AM, Sheet 13 of 19 Sheets

Rev	Amendments	Approved	Date
(A)	PRELIMINARY ISSUE	A.W	11/02/21



© Spiire Australia Pty Ltd All Rights Reserved
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

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

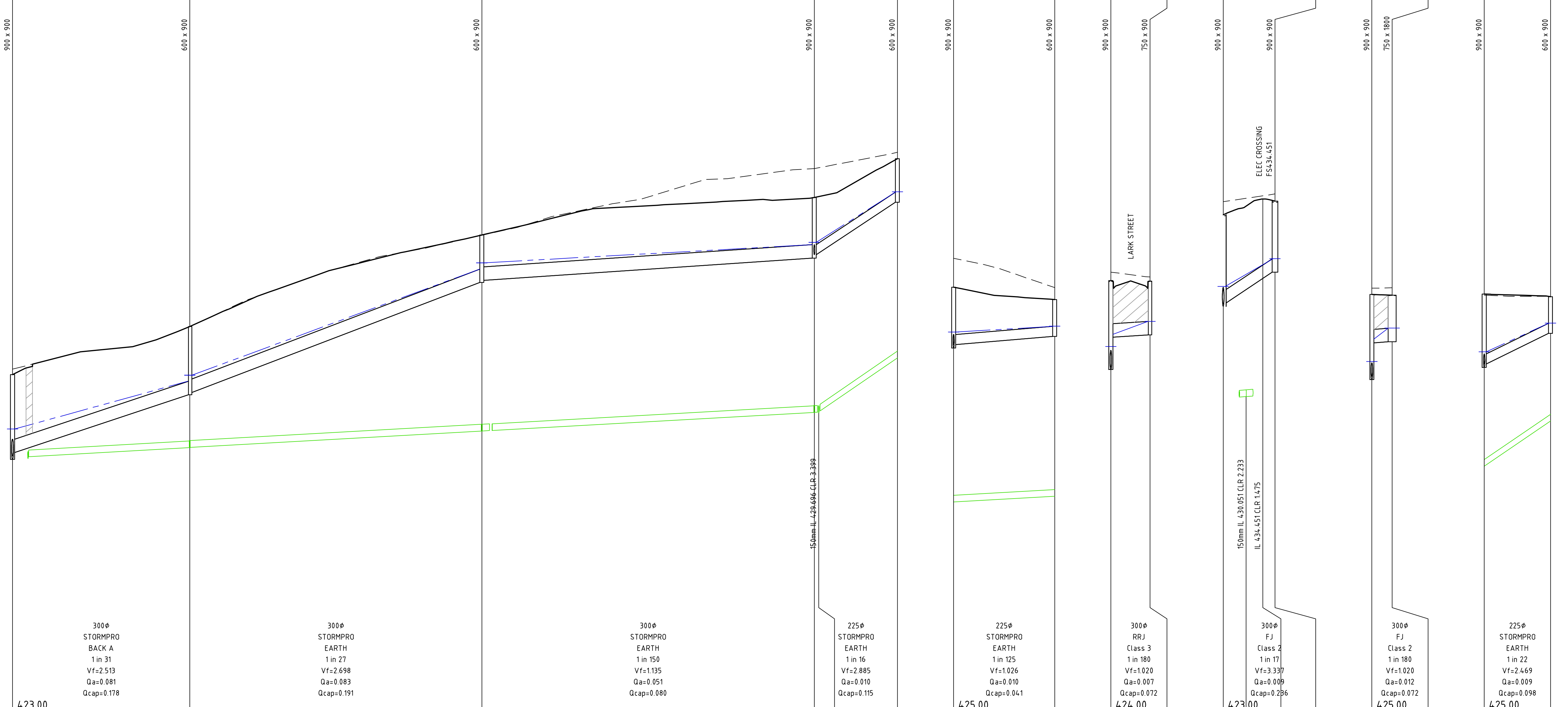
Designed M. WRIGHT	Checked
Authorised A. WILKIE	Date

**CONROY'S GREEN
STAGE 3
ROAD AND DRAINAGE
INTERSECTION DETAILS - SHEET 2
CITY OF BALLARAT
SAN HUBERTO PROPERTY**

PRELIMINARY Dwg No **308512CR501** Rev **(A)**



302 JP 900 x 900 312 JP 600 x 900 313 JP 600 x 900 314 JP 900 x 900 315 JP 600 x 900 316 JP 900 x 900 317 JP 750 x 900 304 SEP 900 x 900 317 SEP 750 x 900 305 SEP 900 x 900 318 SEP 900 x 900 309 JP 900 x 900 319 DSEP 750 x 1800 310 JP 900 x 900 320 JP 600 x 900



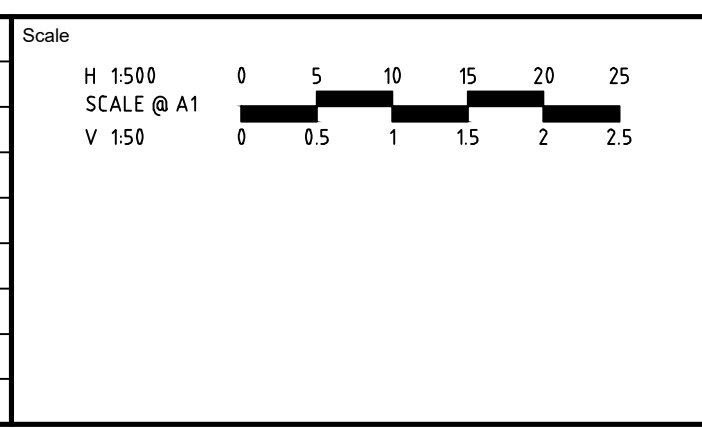
Pipe Diameter	300φ	300φ	300φ	225φ	225φ	300φ	300φ	300φ	225φ
Joint Type	STORMPRO	STORMPRO	STORMPRO	STORMPRO	STORMPRO	RRJ	FJ	STORMPRO	STORMPRO
Pipe Class	BACK A	EARTH	EARTH	EARTH	EARTH	Class 3	Class 2	Class 2	EARTH
Pipe Grade	1 in 31	1 in 150	1 in 150	1 in 16	1 in 125	1 in 180	1 in 17	1 in 180	1 in 22
Velocity (m/s)	Vf=2.513	Vf=2.698	Vf=1.135	Vf=2.085	Vf=1.026	Vf=1.020	Vf=3.337	Vf=1.020	Vf=2.469
Pipe Flow (m ³ /s)	Qa=0.081	Qa=0.083	Qa=0.051	Qa=0.010	Qa=0.010	Qa=0.007	Qa=0.010	Qa=0.009	Qa=0.009
Pipe Capacity (m ³ /s)	Qcap=0.178	Qcap=0.191	Qcap=0.080	Qcap=0.115	Qcap=0.041	Qcap=0.072	Qcap=0.236	Qcap=0.072	Qcap=0.098
DATUM R.L.	423.00				425.00	424.00	423.00	425.00	425.00

DEPTH TO INVERT	1.887	1.520	1.058	0.970	1.277	0.821	1.979	1.583	1.634	0.819
DESIGN INVERT LEVEL	428.653	430.092	432.591	434.379	433.209	433.389	432.657	432.060	432.701	433.459
HYDRAULIC GRADE LEVEL	429.328	430.527	433.030	434.604	433.488	433.614	432.451	432.135	433.047	433.689
FINISHED SURFACE LEVEL	430.540	431.612	433.649	435.349	434.487	434.210	433.636	434.101	434.326	434.278
EXISTING SURFACE LEVEL	430.661	431.612	433.644	435.429	434.487	434.471	433.823	434.392	434.464	434.284
CHAINAGE	0.000	394.52	104.452	178.452	179.445	196.952	0.000	8.723	11.526	0.000

L=39.452m L=65.000m L=74.000m L=18.500m L=22.500m L=8.723m L=11.526m L=4.506m L=14.750m

file name: 308512CR601.dwg, layout name: CR601, plotted by: Mitchell Wright, file location: \\spire\ben\data\308512\308512.dwg, plot date: 12/02/2021 8:59 AM, Sheet 15 of 19 Sheets

Scale	H 1:500 SCALE @ A1 V 1:50		
Scale	0 5 10 15 20 25 0 0.5 1 1.5 2 2.5		
Rev	(A) PRELIMINARY ISSUE	A.W	11/02/21
Rev	Amendments	Approved	Date



System Certified

 © Spiire Australia Pty Ltd All Rights Reserved

 This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

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

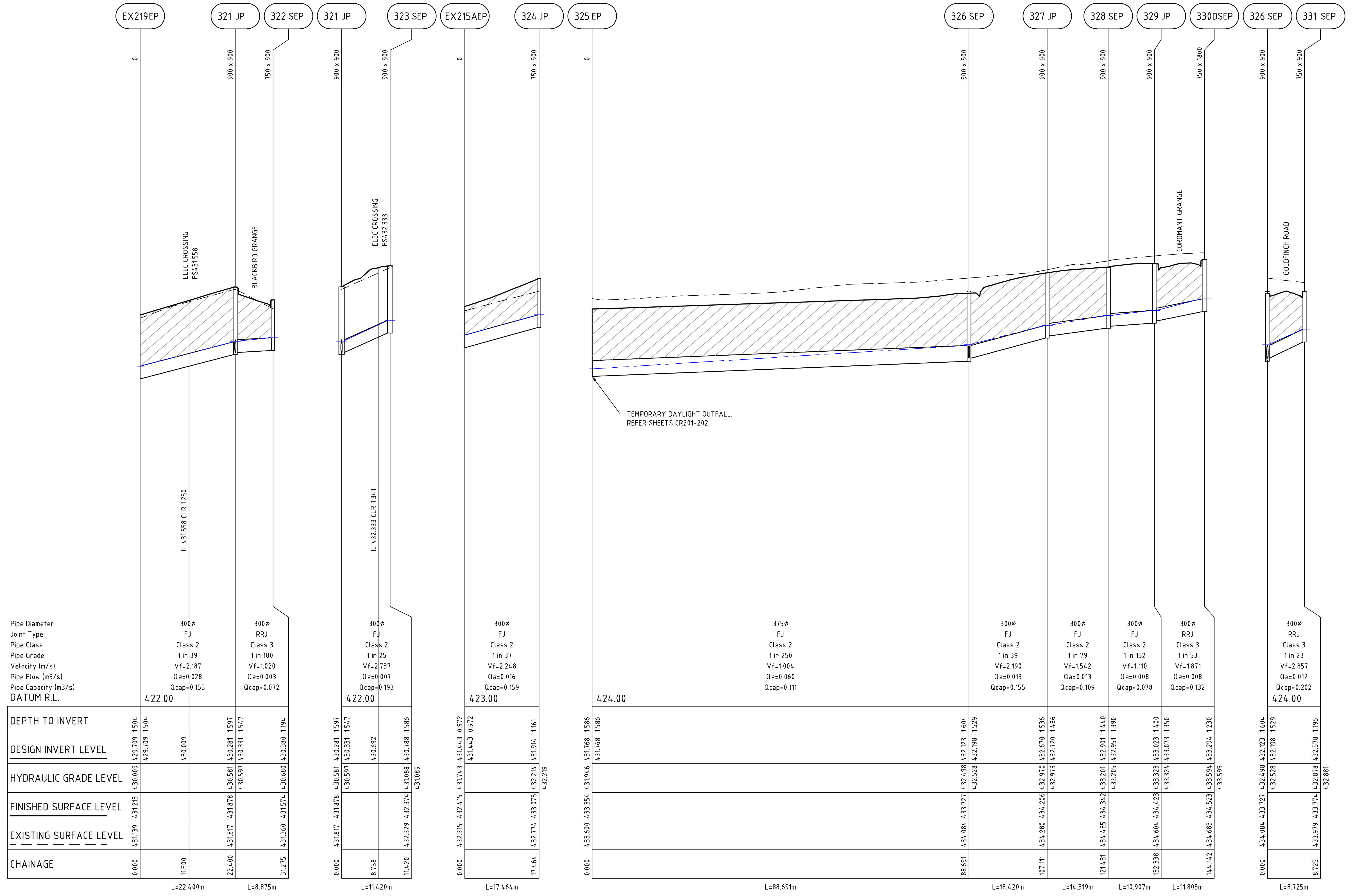
Designed	M. WRIGHT	Checked	
Authorised	A. WILKIE	Date	

CONROY'S GREEN
STAGE 3
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 2
 CITY OF BALLARAT
 SAN HUBERTO PROPERTY

PRELIMINARY

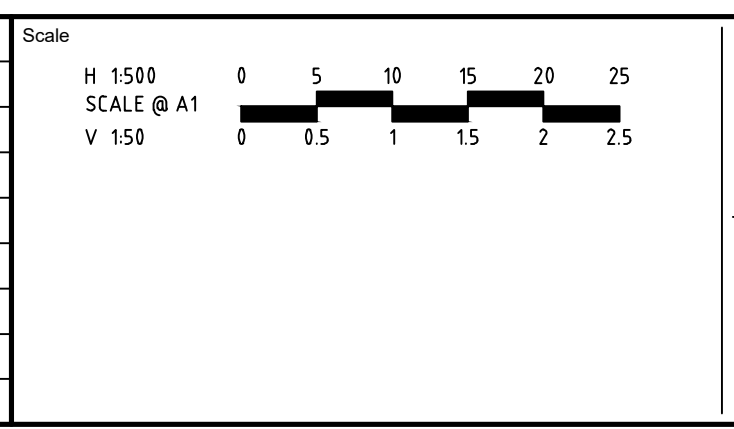
Dwg No: **308512CR601**

Rev: **(A)**



file name: 308512CR602.dwg | layout name: CR602 | plotted by: Mitchell Wright |
 file location: \\spire\ben\data\308512\308512.dwg | plot date: 12/02/2021 8:59 AM | sheet 16 of 19 sheets

Rev	Amendments	Approved	Date
(A)	PRELIMINARY ISSUE	A.W	11/02/21



System Certified

© Spiire Australia Pty Ltd All Rights Reserved
 This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

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

Designed	M. WRIGHT	Checked	
Authorised	A. WILKIE	Date	

CONROY'S GREEN
STAGE 3
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 3
 CITY OF BALLARAT
 SAN HUBERTO PROPERTY

PRELIMINARY

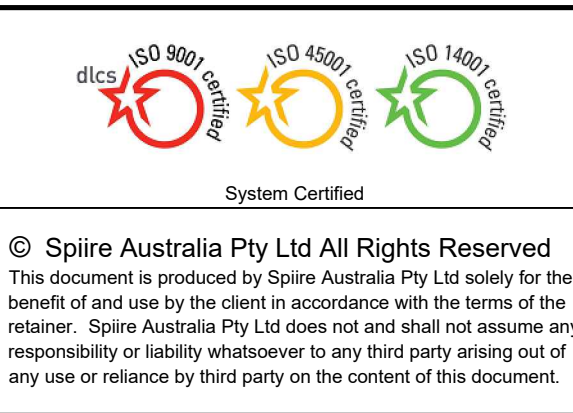
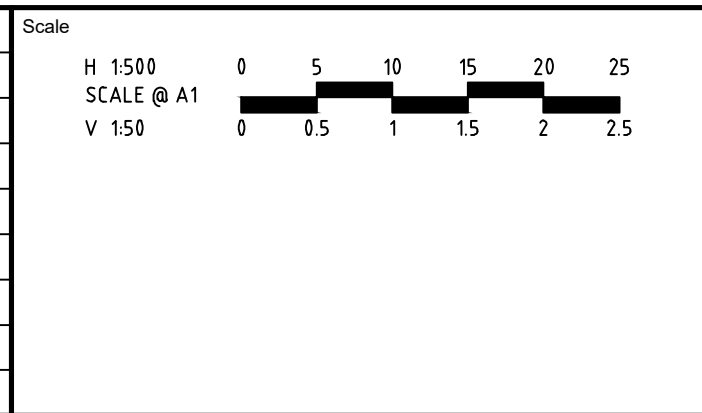
Dwg No: 308512CR602 Rev: (A)

file name: 308512CR603.dwg, layout name: CS603, plotted by: Mitchell Wright, file location: \\spire\ben\data\308512\308512.dwg, plot date: 12/02/2021, 8:59 AM, Sheet 11 of 19 Sheets

DRAINAGE PIT SCHEDULE												
No.	PIT TYPE	INTERNAL DIMENSIONS		INLET		OUTLET		PIT		REMARKS	STEP IRON	LADDER
		WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH			
301	ENDPIPE	0	0	450	427.944			429.817	1.873	ENDPIPE OUTFALL		
302	JUNCTION PIT	900	900	375	428.728	450	428.653	430.540	1.887	REFER COB SD-P10-1	X	
				300	428.803							
303	SIDE ENTRY PIT	900	900	375	430.862	375	430.812	432.385	1.574	REFER COB SD-P1-1	X	
304	SIDE ENTRY PIT	900	900	375	431.707	375	431.657	433.636	1.979	REFER COB SD-P1-1	X	
				300	432.376							
305	SIDE ENTRY PIT	900	900	375	432.110	375	432.060	434.101	2.041	REFER COB SD-P1-1	X	
				300	432.135							
306	SIDE ENTRY PIT	900	900	375	432.204	375	432.154	434.090	1.936	REFER COB SD-P1-1	X	
307	SIDE ENTRY PIT	900	900	375	432.311	375	432.261	434.362	2.101	REFER COB SD-P1-1	X	
308	SIDE ENTRY PIT	900	900	375	432.397	375	432.347	434.362	2.015	REFER COB SD-P1-1	X	
309	JUNCTION PIT	900	900	300	432.504	375	432.429	434.326	1.897	REFER COB SD-P10-1	X	
				300	433.247							
310	JUNCTION PIT	900	900	225	432.776	300	432.701	434.334	1.634	REFER COB SD-P10-1	X	
				225	432.776							
311	JUNCTION PIT	600	900			225	433.426	434.249	0.823	REFER COB SD-P10-1		
312	JUNCTION PIT	600	900	300	430.142	300	430.092	431.612	1.520	REFER COB SD-P10-1	X	
313	JUNCTION PIT	600	900	300	432.641	300	432.591	433.649	1.058	REFER COB SD-P10-1		
314	JUNCTION PIT	900	900	225	433.209	300	433.134	434.487	1.352	REFER COB SD-P10-1	X	
				225	433.209							
315	JUNCTION PIT	600	900			225	434.379	435.349	0.970	REFER COB SD-P10-1		
316	JUNCTION PIT	600	900			225	433.389	434.210	0.821	REFER COB SD-P10-1		
318	SIDE ENTRY PIT	900	900			300	432.820	434.403	1.583	REFER COB SD-P1-1	X	
319	DOUBLE SIDE ENTRY PIT	750	1800			300	433.272	434.310	1.038	REFER COB SD-P2-1		
320	JUNCTION PIT	600	900			225	433.459	434.278	0.819	REFER COB SD-P10-1		
321	JUNCTION PIT	900	900	300	430.331	300	430.281	431.878	1.597	REFER COB SD-P10-1	X	
				300	430.331							
322	SIDE ENTRY PIT	750	900			300	430.380	431.574	1.194	REFER COB SD-P1-1		
323	SIDE ENTRY PIT	900	900			300	430.788	432.374	1.586	REFER COB SD-P1-1	X	
324	JUNCTION PIT	750	900			300	431.914	433.075	1.161	REFER COB SD-P10-1		
325	ENDPIPE	0	0	375	431.768			433.354	1.586	ENDPIPE OUTFALL		
326	SIDE ENTRY PIT	900	900	300	432.198	375	432.123	433.727	1.604	REFER COB SD-P1-1	X	
327	JUNCTION PIT	900	900	300	432.720	300	432.670	434.206	1.536	REFER COB SD-P10-1	X	
328	SIDE ENTRY PIT	900	900	300	432.951	300	432.901	434.342	1.440	REFER COB SD-P1-1	X	
329	JUNCTION PIT	900	900	300	433.073	300	433.023	434.423	1.400	REFER COB SD-P10-1	X	
330	DOUBLE SIDE ENTRY PIT	750	1800			300	433.294	434.523	1.230	REFER COB SD-P2-1	X	
331	SIDE ENTRY PIT	750	900			300	432.578	433.774	1.196	REFER COB SD-P1-1		
EX215a	ENDPIPE	0	0	300	431.443			432.415	0.972			
EX219	ENDPIPE	0	0	300	429.709			431.213	1.504			

Scale	Scale @ A1	Scale @ A2
H 1500	0 5 10 15 20 25	
V 150	0 0.5 1 1.5 2 2.5	

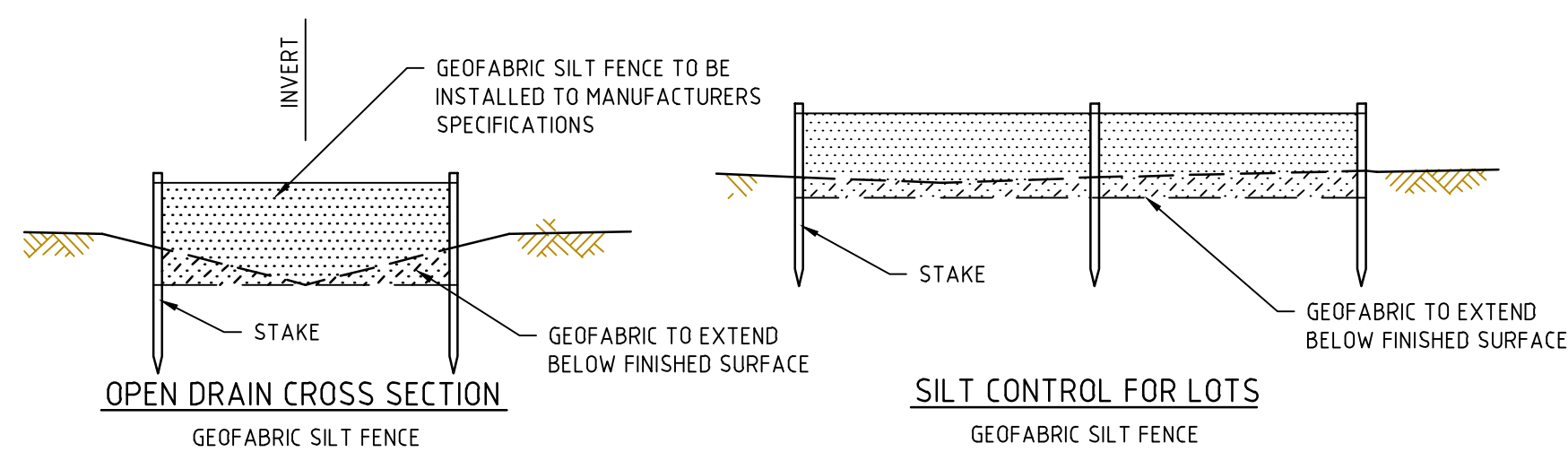
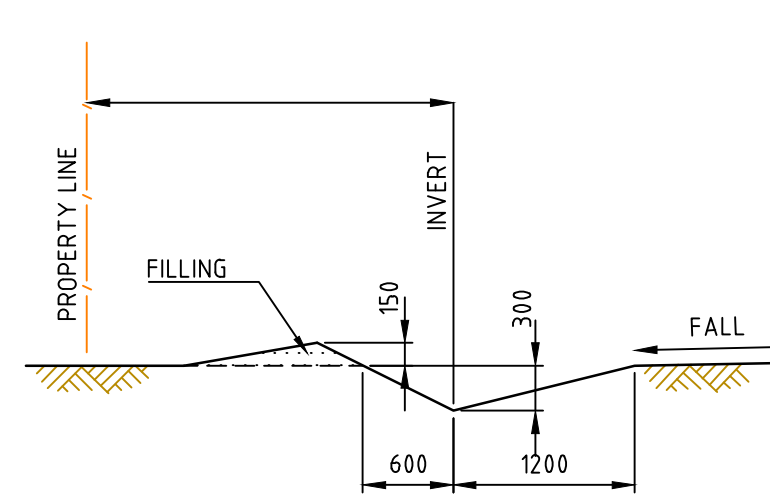
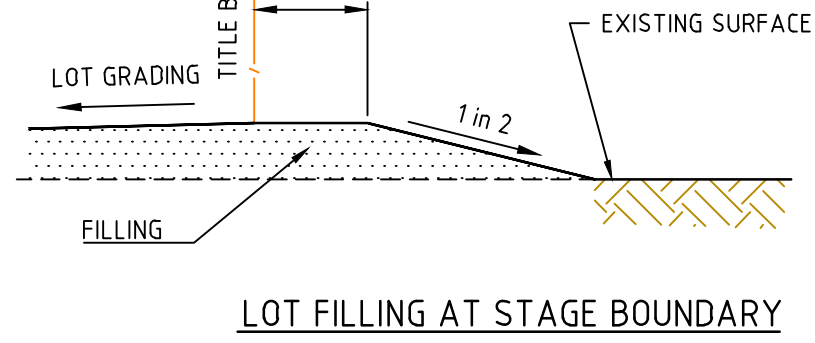
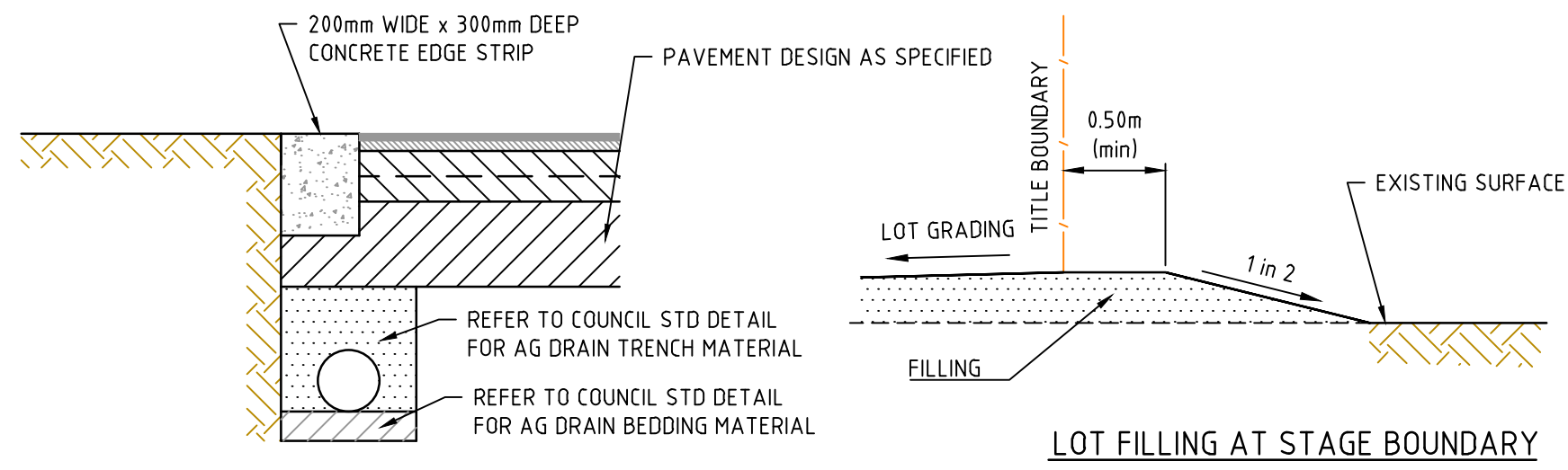
Rev	Amendments	Approved	Date
(A)	PRELIMINARY ISSUE	A.W	11/02/21



Designed M. WRIGHT	Checked
Authorised A. WILKIE	Date

CONROY'S GREEN
STAGE 3
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - PIT SCHEDULE
CITY OF BALLARAT
SAN HUBERTO PROPERTY

PRELIMINARY Dwg No **308512CR603** Rev **(A)**



LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE - DETAIL

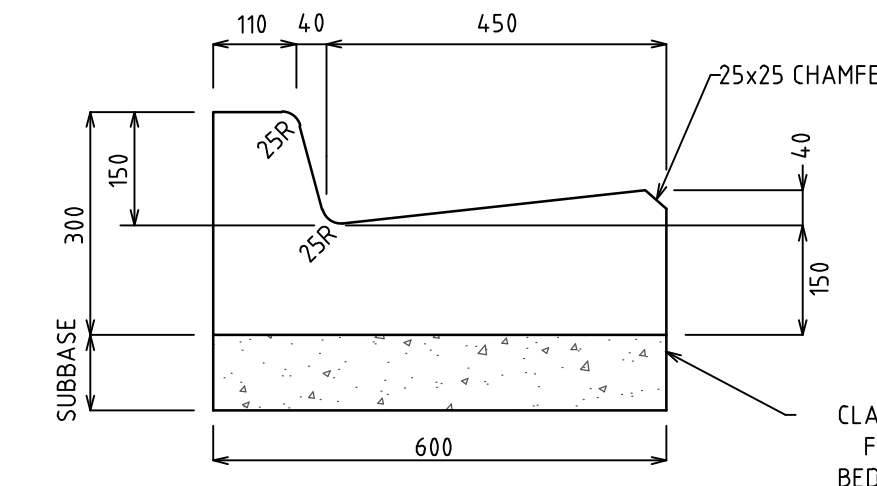
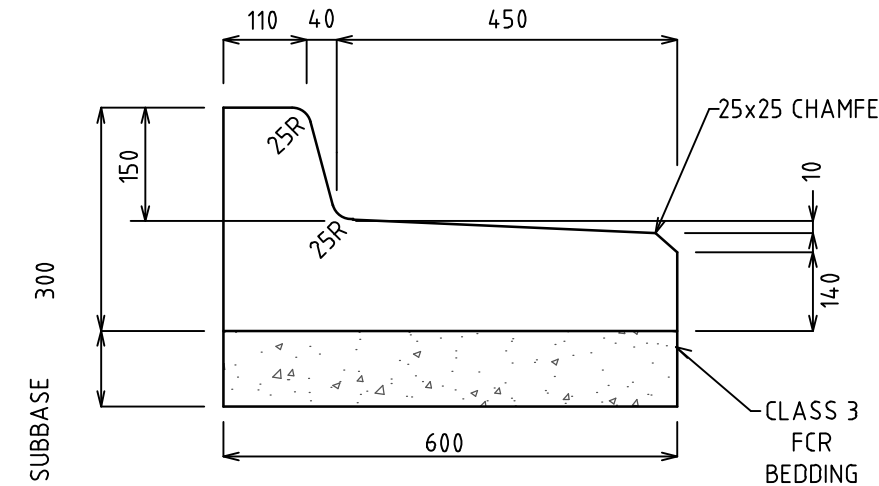
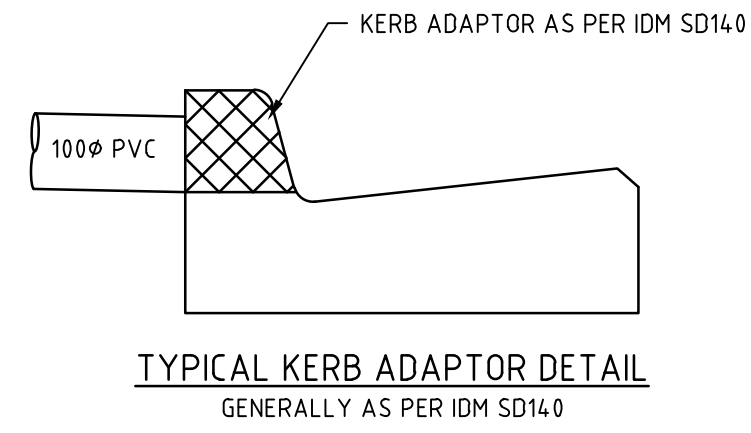
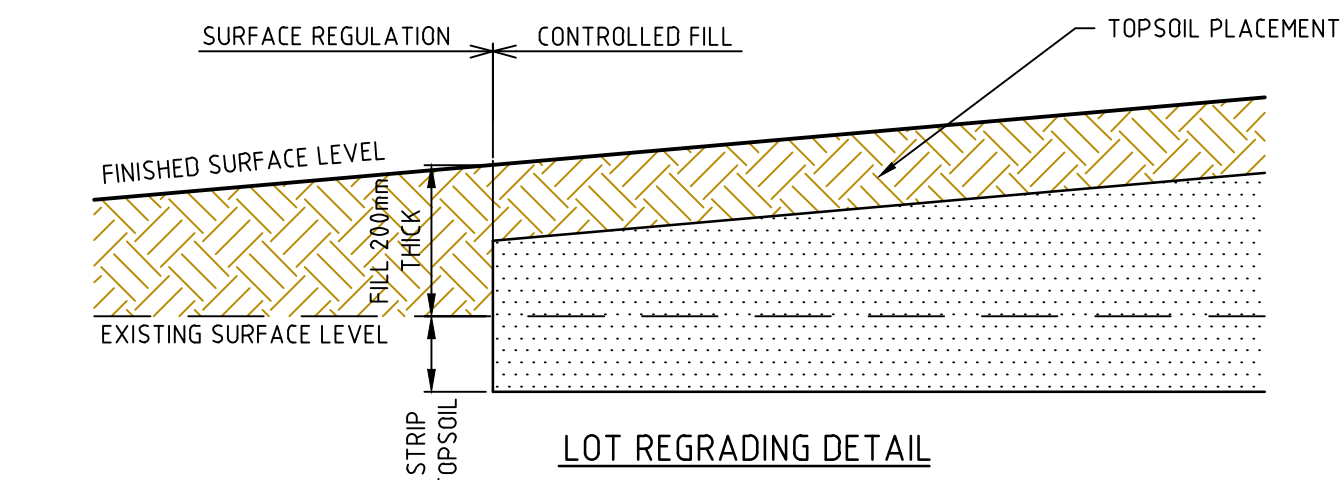
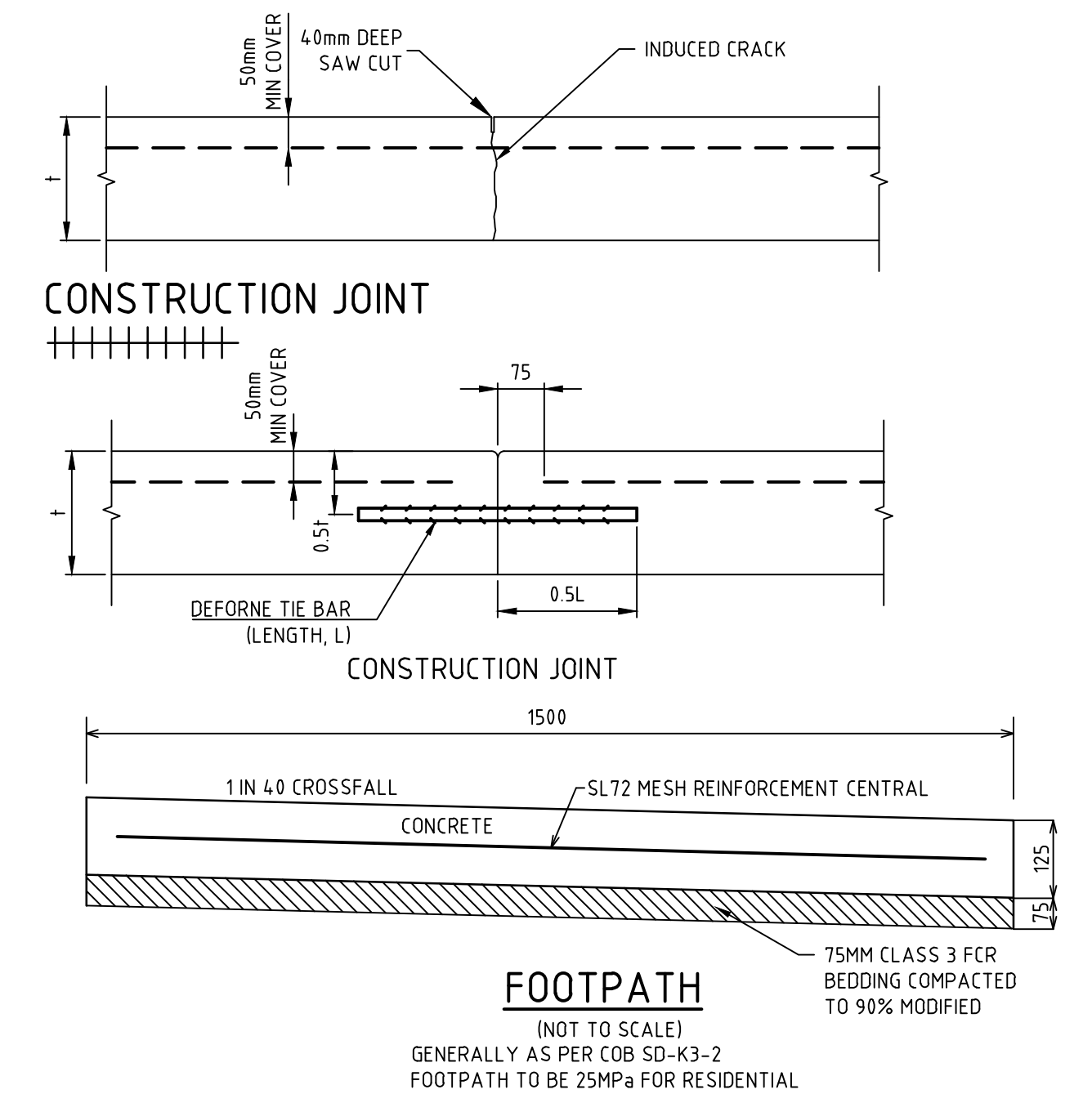
TYPICAL CATCH DRAIN SECTION

SILT CONTROL OPTIONS

NOT TO SCALE

SAW CUT

SECTION A-A (STANDARD)



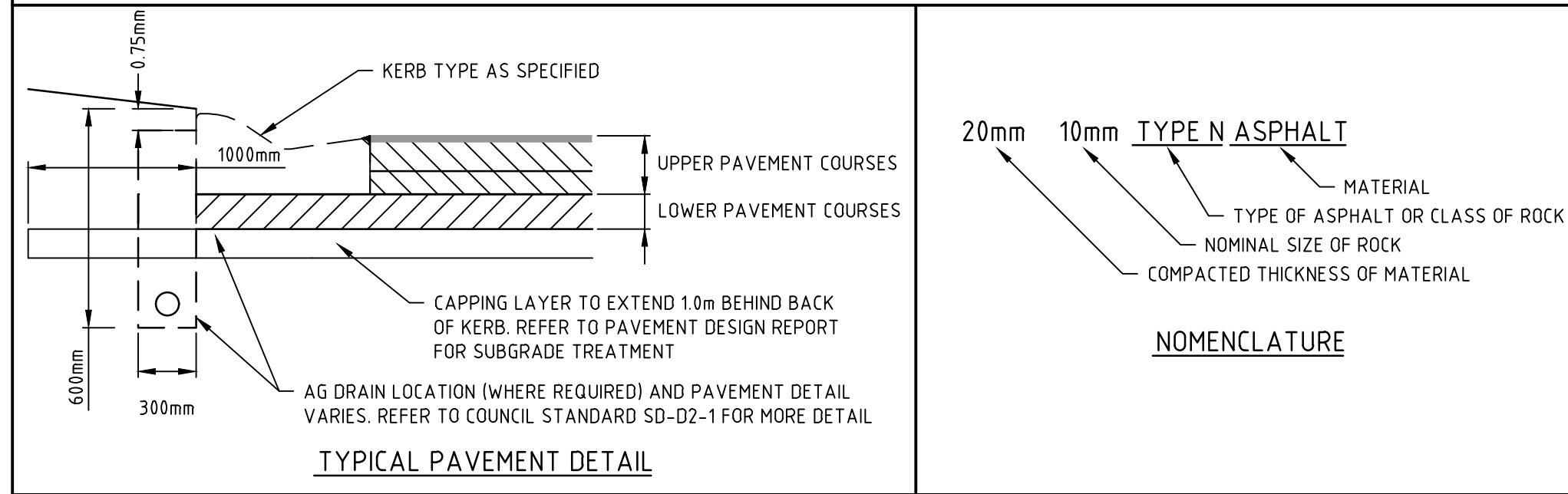
B3 - STANDARD KERB & CHANNEL

B2 - STANDARD KERB & CHANNEL

STANDARD KERB PROFILES

NOT TO SCALE

STANDARD PAVEMENT



20mm TYPE N ASPHALT
10mm TYPE N ASPHALT
MATERIAL TYPE OF ASPHALT OR CLASS OF ROCK
NOMINAL SIZE OF ROCK
COMPACTED THICKNESS OF MATERIAL

NOMENCLATURE

TYPICAL PAVEMENT DETAIL

DESIGN PAVEMENT PROFILE

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)	
		TYPE A* (ACCESS STREET 1)	TYPE B* (ACCESS STREET 2)
ASPHALT WEARING COURSE (mm)	SIZE 10mm TYPE N ASPHALT CLASS 320 BITUMEN	40	40
SAMI LAYER		YES	YES
PRIMER COURSE	PRIME OR 7mm PRIMERSEAL	YES	YES
BASE COURSE (mm)	CLASS 1 or 2 20mm FCR COMPACTED TO 98% (MMD)	150	150
SUBBASE COURSE (mm)	CLASS 3 20mm or 40mm FCR COMPACTED TO 97% (MMD)	220	230
CAPPING LAYER (mm)	INSITU CLAY STABILISED WITH 3% LIME TO ACHIEVE THE FOLLOWING PROPERTIES: CBR₁₀ SWELL_{15%} COMPACTED TO 98% (SPD)	150	200
TOTAL PAVEMENT DEPTH		560	620

ROAD NAME	TYPE
BLACKBIRD GRANGE	A
LARK STREET	A
CORELLA GRANGE	A
GOLDFINCH ROAD	A
SWALLOW LANE	B

* REFER PAVEMENT PLAN FOR LOCATION OF PAVEMENT TYPES

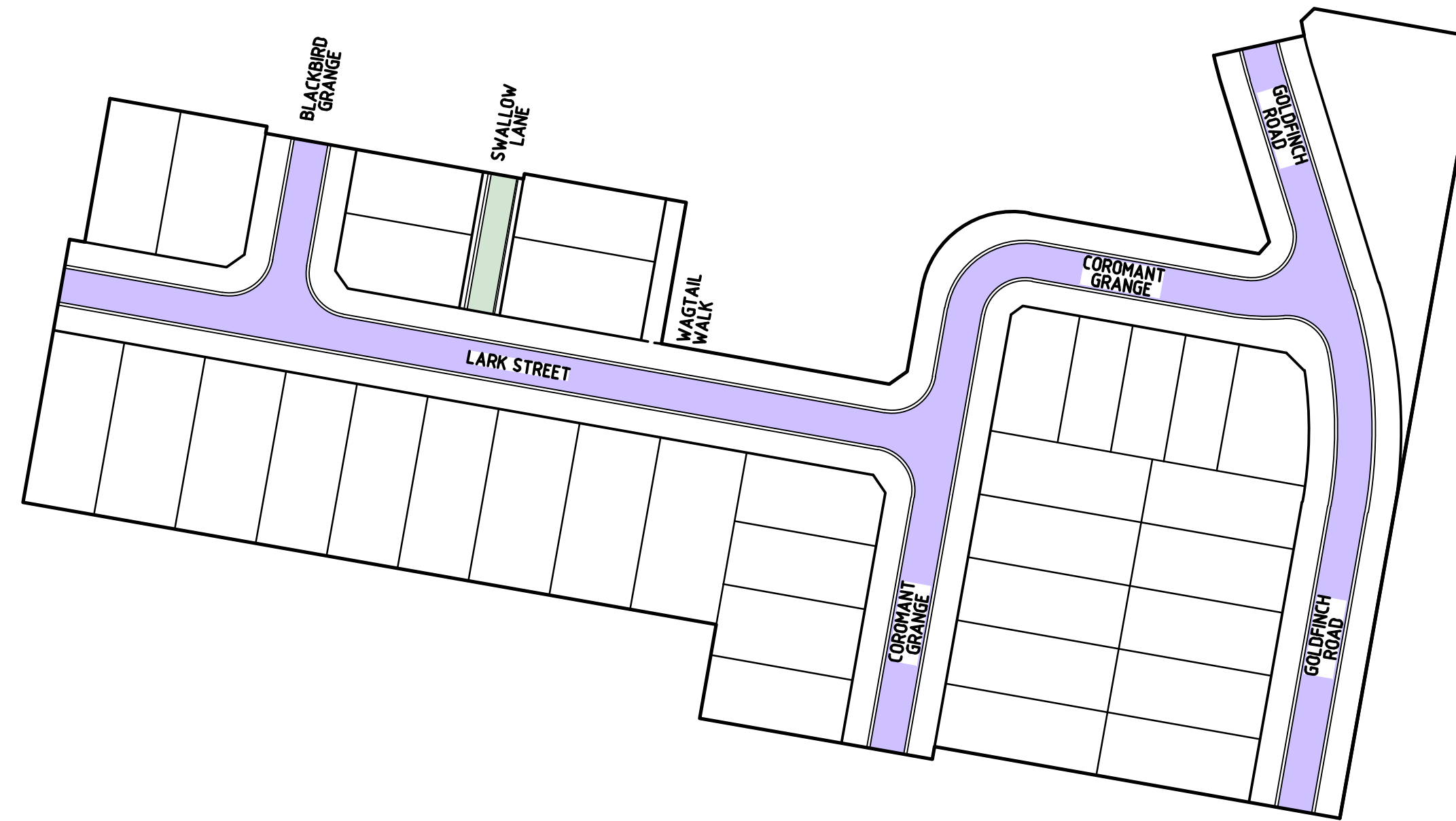
PAVEMENT DETAILS

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

THE DESIGN HAS BEEN EXTRACTED FROM THE GTS REPORT ON "520 GREENHALGHS RD, WINTER VALLEY" THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.

A COPY OF THE DOCUMENT WILL BE PROVIDED TO YOU ON REQUEST.

SPIIRE DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS. ANY QUERIES IN RESPECT TO THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS SHOULD BE ADDRESSED TO GTS AND SENT TO SPIIRE.



PAVEMENT PLAN

H 1:1000
SCALE @ A1



MGA 2020
ZONE 54

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.
- VARIATION TO JOINT LAYOUT BY CONTRACTOR WILL NOT BE ACCEPTED WITHOUT SPECIFIC WRITTEN APPROVAL OF SUPERINTENDENT & COUNCIL.

file name: 308512CR700.dwg layout name: CD700 - sheet 1 of 19 sheets
file location: \\spire\projects\308512\308512.dwg plot date: 12/02/2021 8:59 AM sheet 18 of 19 sheets

Rev	Description	Approved	Date
(A)	PRELIMINARY ISSUE	A.W	11/02/21
	Amendments		

Scale

System Certified

© Spiire Australia Pty Ltd All Rights Reserved
 This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

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

Designed	Checked
M. WRIGHT	
Authorised	Date
A. WILKIE	

CONROY'S GREEN
STAGE 3
ROAD AND DRAINAGE
PAVEMENT AND TYPICAL DETAILS - SHEET 1
 CITY OF BALLARAT
 SAN HUBERTO PROPERTY

Drg No: **PRELIMINARY 308512CR700** Rev: **(A)**

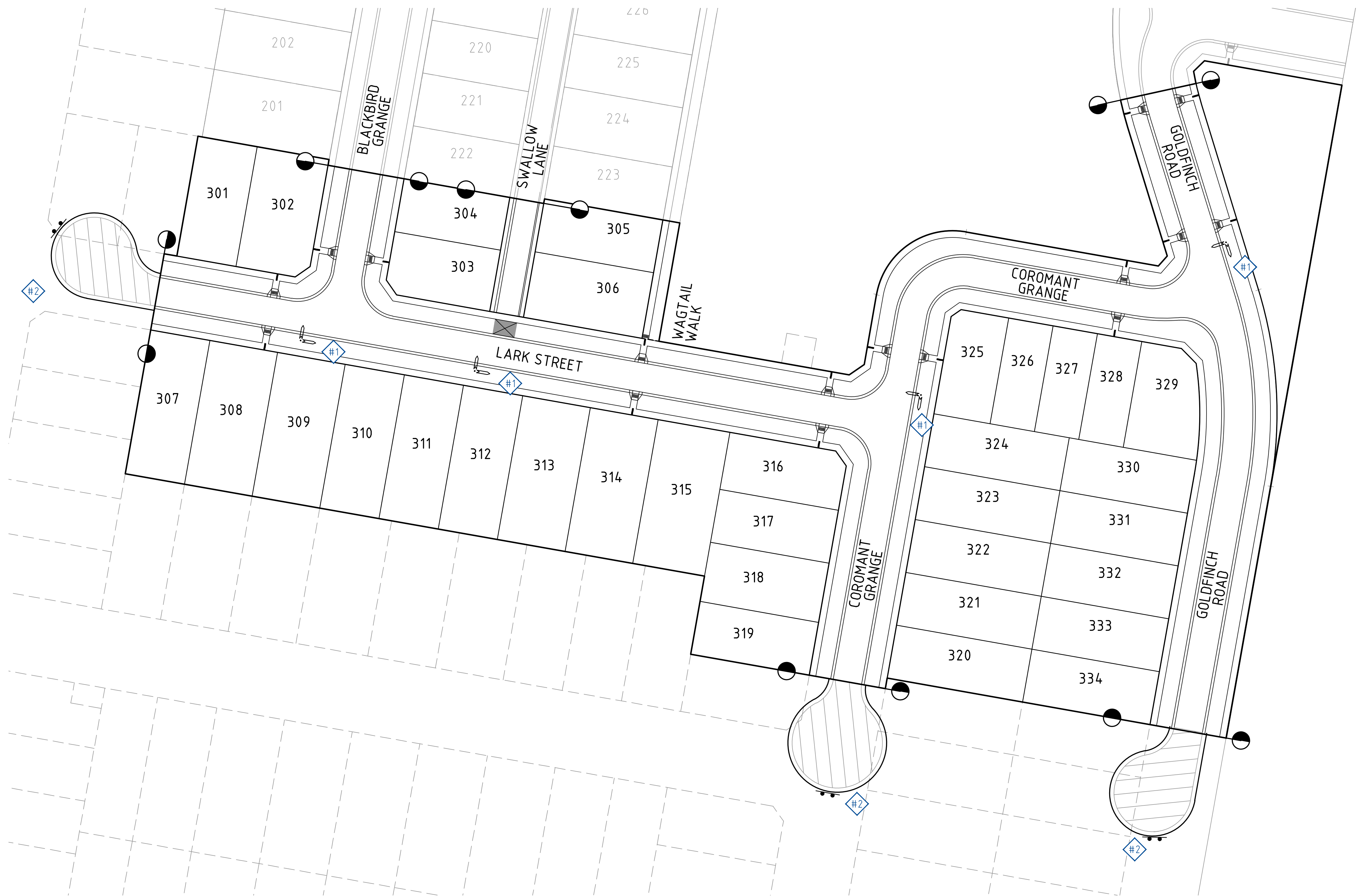
LEGEND

S1 STREET NAME PLATES TO BE IN ACCORDANCE WITH CITY OF BALLARAT STANDARDS, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE

S2 ROAD CLOSED G9-20
 D4-5

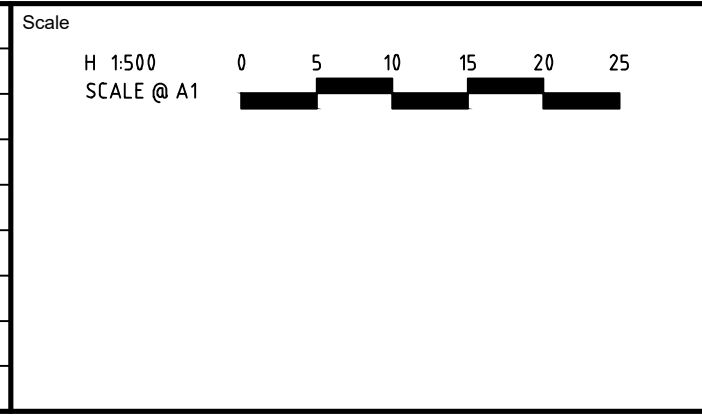
TACTILE GROUND SURFACE INDICATORS (TGSIs)

- NOTE:**
- STREET SIGNS ARE TO BE MOUNTED ON LIGHT POLES, WITH A COUNCIL APPROVED BRACKET, IN LIEU OF SIGN POLES WHERE THE TWO POLES ARE IN CLOSE PROXIMITY AND WHERE THE STREET SIGN WOULD NOT BE COMPROMISED IN ITS PURPOSE BY THE RELOCATION.
 - LINEMARKING TO BE IN ACCORDANCE WITH AS1742.2 - 2009



file name: 308512CR800.dwg layout name: CR800 plotted by: Mitchell Wright
file location: \\spire\ballarat\308512\308512.dwg plot date: 12/02/2021 8:59 AM Sheet 19 of 19 Sheets

Rev	Amendments	Approved	Date
(A)	PRELIMINARY ISSUE	A.W	11/02/21



System Certified

© Spiire Australia Pty Ltd All Rights Reserved
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

spiire

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

Designed M. WRIGHT	Checked
Authorised A. WILKIE	Date

**CONROY'S GREEN
STAGE 3
ROAD AND DRAINAGE
SIGNAGE AND LINEMARKING - SHEET 1**
CITY OF BALLARAT
SAN HUBERTO PROPERTY

PRELIMINARY Dwg No 308512CR800 Rev (A)