

# CONROY'S GREEN STAGE 5 SAN HUBERTO PROPERTIES P/L

## GENERAL NOTES:

### SURVEY

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) 2020, ZONE 54.
- ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES AND ARE ACCURATE TO WITHIN ±0.05m.
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT, THE ROAD & DRAINAGE SPECIFICATION, APPROVED MUNICIPALITY SPECIFICATIONS AND STANDARD DRAWINGS AND TO THE SATISFACTION OF THE SUPERINTENDENT AND THE MUNICIPAL ENGINEER OR HIS REPRESENTATIVE.
- ROAD CHAINAGES REFER TO ROAD CENTRELINES. CHAINAGES FOR INTERSECTIONS AND CUL-DE-SACS REFER TO THE LIP OF KERB

### EARTHWORKS

- THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL LOCAL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- WHERE REQUIRED ANY BUILDINGS, TRENCHES, FENCES AND OTHER STRUCTURES ON SITE ARE TO BE REMOVED AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL IS TO BE INCLUDED IN THE OVERALL EARTHWORKS FIGURE UNLESS A SPECIFIC ITEM FOR REMOVAL IS DENOTED IN THE SCHEDULE.
- ALL EXCAVATED ROCK AND SURPLUS SPOIL TO BE REMOVED AND DISPOSED OFF SITE UNLESS NOTED OTHERWISE.
- ALL FILLING ON LOTS AND WITHIN ROAD RESERVES GREATER THAN 200mm IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.
- FILLING MATERIAL IS TO BE IN ACCORDANCE WITH THE SPECIFICATION, AS 3798-2007 & TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT.
- ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.
- NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE FOR PUBLIC OPEN SPACE UNLESS OTHERWISE DIRECTED OR APPROVED BY THE SUPERINTENDENT.
- 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 T.B.M.'S THEREAFTER.
- AT LEAST 3 DAYS PRIOR TO COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 150mm DEEP, A NOTIFICATION FORM MUST BE SENT TO WORKSAFE. THE CONTRACTOR IS TO COMPLY WITH WORKSAFE, THE MINES (TRENCHES) REGULATION 1982, THE MINES ACT 1958 AND OCCUPATIONAL HEALTH AND SAFETY ACT 1985, 2004.
- ALL SERVICE TRENCHES UNDER DRIVEWAYS, FOOTPATHS AND PARKING BAYS TO BE BACKFILLED WITH CLASS 2 CRUSHED ROCK. SERVICE TRENCHES LESS THAN 750mm BEHIND KERB AND CHANNEL OR PAVED TRAFFIC AREAS ARE ALSO TO BE BACKFILLED WITH COMPACTED CLASS 2 CRUSHED ROCK.

- WHERE REQUIRED, ALL EXISTING DAMS, DEPRESSIONS AND DRAINS ARE TO BE BREACHED, DRAINED, DESLUGGED AND SHALL BE EXCAVATED TO A CLEAN FIRM BASE. THE SURFACE SHALL BE INSPECTED, APPROVED AND LEVELED BY THE ENGINEER PRIOR TO COMMENCEMENT OF FILLING. THE FILL SHALL BE APPROVED SELECTED ON SITE MATERIAL OR APPROVED IMPORTED MATERIAL. THE FILL SHALL BE PLACED UNDER CONTROLLED MOISTURE CONDITIONS IN ACCORDANCE WITH THE SPECIFICATION
- NO BLASTING TO BE CARRIED OUT WITHIN THE MUNICIPALITY WITHOUT OBTAINING COUNCIL'S PERMISSION.

### SERVICES

- GAS AND WATER CONDUITS ARE TO BE:  
Ø50mm CLASS 12 P.V.C. - SINGLE SERVICE  
Ø100mm CLASS 12 P.V.C. - DUAL SERVICE (DRINKING AND NON DRINKING WATER)

WITH THE FOLLOWING MINIMUM COVER TO FINISHED SURFACE LEVELS:  
ROAD PAVEMENT - 0.80m  
VERGE, FOOTPATHS - 0.45m

- ALL SERVICE CONDUIT TRENCHES UNDER ROAD PAVEMENTS TO BE BACKFILLED IN ACCORDANCE WITH RELEVANT MUNICIPALITY OR ROAD AUTHORITY SPECIFICATION.
- WATER TAPPINGS TO BE LOCATED IN CENTRE OF ALLOTMENTS UNLESS OTHERWISE SHOWN.
- TELSTRA ARE TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS.

### STORM WATER DRAINAGE

- AG/SUBSOIL DRAIN TO BE LAID BEHIND KERB WHERE REQUIRED IN ACCORDANCE WITH THE COUNCIL STANDARD DRAWINGS AND CONNECTED TO UNDERGROUND DRAINAGE.
- ALL STORMWATER DRAINS ARE TO BE CLASS '2' R.C. PIPES UNLESS OTHERWISE SHOWN. ALL R.C. JOINTS ARE TO BE RUBBER RING JOINTED (R.R.J.) UNLESS OTHERWISE SHOWN.

- CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.2m (WHERE OUTSIDE OF SEWER) FROM THE PROPERTY LINE UNLESS SHOWN OTHERWISE.

- WHERE CURVED PIPES ARE SHOWN ON THE FACE PLANS THEY ARE TO BE LAID PARALLEL TO THE BACK OF KERB, EXCEPT WHERE A RADIUS HAS BEEN SPECIFICALLY NOMINATED. CURVED PIPES ARE TO BE APPROVED BY COUNCIL AND IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.

### PAVEMENT

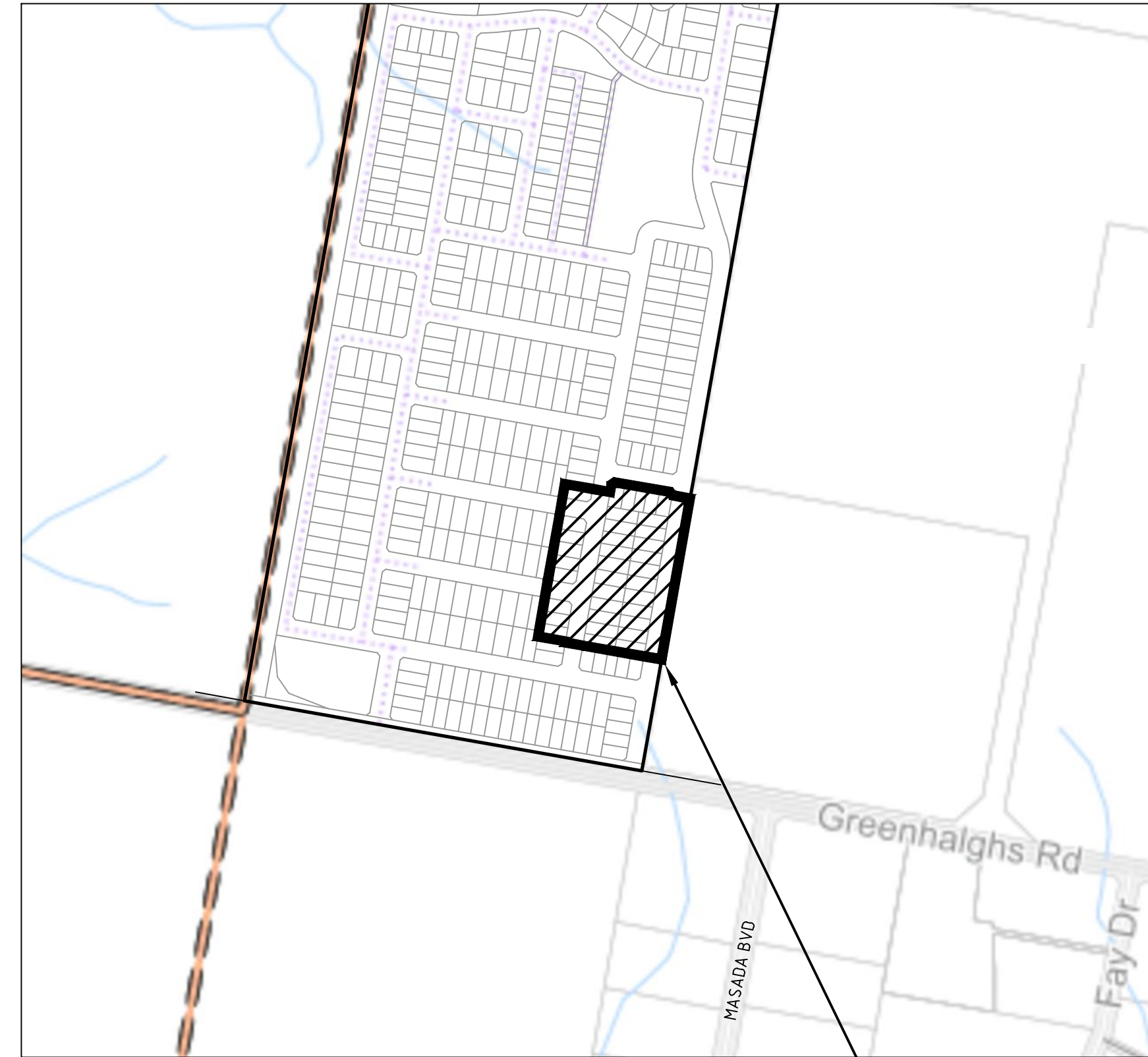
- PAVEMENT DEPTHS MAY BE MODIFIED AS DIRECTED BY THE SUPERINTENDENT. PAVEMENT TO BE BOXED OUT TO MINIMUM DEPTH DENOTED, INSPECTED AND IF SUBGRADE IS IN QUESTION, FURTHER TESTING CARRIED OUT TO DETERMINE FINAL PAVEMENT DEPTH.
- WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL. FILLING TO BE CONSTRUCTED IN LAYERS 150mm THICK WITH COMPACTION ACHIEVING 95% AUSTRALIAN STANDARD DENSITY.
- WHEN PAVEMENT EXCAVATION IS IN ROCK ALL LOOSE MATERIAL (INCLUDING ROCKS AND CLAY) MUST BE REMOVED. THE SUB-GRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL.

### SIGNAGE AND LINEMARKING

- LINE MARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742 SERIES UNLESS NOTED OTHERWISE. STREET SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH COUNCIL STANDARDS.
- ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH AS 1742-3.
- TACTILE GROUND SURFACE INDICATORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE DISABILITY DISCRIMINATION ACT AND RELEVANT COUNCIL STANDARD DRAWINGS.

### ENVIRONMENTAL

- CONTRACTOR TO PROVIDE AN ENVIRONMENTAL MANAGEMENT PLAN INCLUDING SILT AND SEDIMENT RUNOFF PROTECTION ETC. PRIOR TO THE COMMENCEMENT OF WORKS.
- ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN. IF ROAD AND DRAINAGE CONSTRUCTION NECESSITATES THEIR REMOVAL, WRITTEN PERMISSION MUST BE OBTAINED FROM THE SUPERINTENDENT.
- TREES NOT SPECIFIED FOR REMOVAL ARE TO BE PROTECTED WITH APPROPRIATE EXCLUSION FENCING PRIOR TO COMMENCEMENT OF ANY WORKS.



LOCALITY PLAN  
H 15000  
SCALE @ A1



STAGE 5  
WORKS

## DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
CR100	GENERAL NOTES - SHEET 1	1	B
CR200	ROAD LAYOUT PLANS - SHEET 1	2	B
CR201	ROAD LAYOUT PLANS - SHEET 2	3	A
CR300	ROAD LONG SECTIONS - SHEET 1	4	A
CR301	ROAD LONG SECTIONS - SHEET 2	5	A
CR302	ROAD LONG SECTIONS - SHEET 3	6	A
CR400	ROAD CROSS SECTIONS - SHEET 1	7	B
CR401	ROAD CROSS SECTIONS - SHEET 2	8	B
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
CR600	DRAINAGE LONG SECTIONS - SHEET 1	13	B
CR601	DRAINAGE LONG SECTIONS - SHEET 2	14	B
CR602	DRAINAGE LONG SECTIONS - SHEET 3	15	B
CR700	PAVEMENT AND TYPICAL DETAILS - SHEET 1	16	A
CR800	SIGNAGE AND LINEMARKING - SHEET 1	17	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.

## SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		GAS		NBN (TELECOM)		ELECTRICITY			
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE		U/G CABLE	
GOLDFINCH ROAD	E	3.00	E	2.50	W	1.85	W	1.0x	W	2.65
CORMORANT GRANGE	E	2.95	E	2.40	W	1.80	W	1.0x	W	2.70
EGRET STREET	S	2.95	S	2.40	N	1.80	N	1.0x	N	2.70
MYNA STREET	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

## 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	— I —	— I —
COUNCIL STORMWATER DRAIN AND PIT	— SD —	— SD —
STORM WATER DRAINAGE PROPERTY INLETS	— SI —	— SI —
COUNCIL STORM WATER PITS	— SP —	— SP —
HOUSE DRAIN	— HD —	— HD —
AG DRAIN AND FLUSHER	— AG —	— AG —
STORM WATER DRAINAGE PIT TYPE & NUMBER	EX219EP	302JP
GAS & WATER CONDUITS	— GW —	— GW —
RIDGE / CHANGE OF GRADE LINE	— R —	— R —
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	1 in 15.0
EARTHWORKS GRADE	— EG —	— EG —
SIGN AND POST	— SP —	— SP —
STREET SIGN	— SS —	— SS —
PERMANENT SURVEY MARK	— PS —	— PS —
TEMPORARY BENCH MARK	— TB —	— TB —
BOLLARD	— B —	— B —
ROAD CHAINAGES	CH116.57 (L/R)T/P CH116.57	CH116.57 (L/R)T/P CH116.57
LOT CHAINAGES	CH20.06	CH20.06
SETOUT POINT	— S —	— S —
LIMIT OF WORKS	— LW —	— LW —
BATTER	— B —	— B —
ROCK BEACHING	— RB —	— RB —
RETAINING WALL	— RW —	— RW —
FENCE - TREE PROTECTION	— FT —	— FT —
FENCE - VEHICLE EXCLUSION	— FE —	— FE —
FENCES	— F —	— F —
TREE (& SURVEYED CANOPY) TO BE RETAINED	— TR —	— TR —
TREE TO BE PROTECTED	— TP —	— TP —
TREE TO BE REMOVED	— TR —	— TR —
VEGETATION LINE	— VL —	— VL —
FOOTPATH	— FP —	— FP —
TACTILE GROUND SURFACE INDICATOR	— TGI —	— TGI —
KERB TRANSITION	— KT —	— KT —

APPROVED CITY OF BALLARAT  
By D. Hastings at 3:41 pm, Dec 22, 2021

file name: 309150CR100.dwg, layout name: CR100, plotted by: Ashlynn Willis, file location: G:\309150\309150\Drawings\CR100.dwg, plot date: 07/12/2021 4:01 PM, Sheet: 1 of 17 Sheets

Rev	Amendments	Approved	Date
B	REVISED AS PER COUNCIL COMMENTS 25/11/21	A.W	01/12/21
A	PRELIMINARY ISSUE	JD	14/09/21

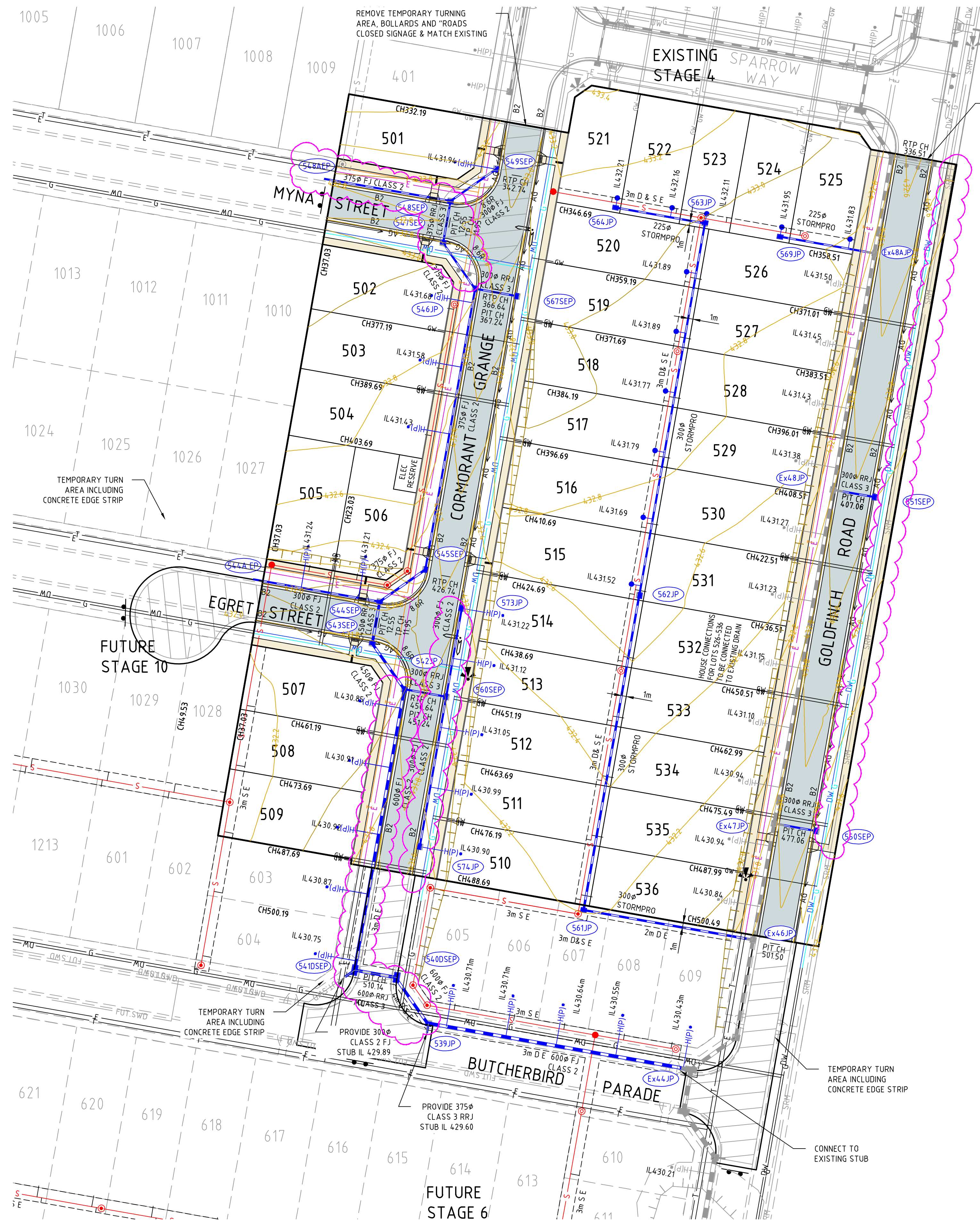
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Designed S.WOOD	Checked B.IBBS
Authorised J.DOHERTY	Date

**CONROY'S GREEN  
STAGE 5  
ROAD AND DRAINAGE  
GENERAL NOTES**  
CITY OF BALLARAT  
SAN HUBERTO PROPERTIES P/L  
**PRELIMINARY** Drg No 309150CR100 Rev B



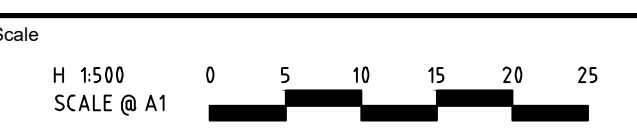


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Rev	Amendments	Approved	Date
B	ADDED FOOTPATH ALONG GOLDFINCH RD	A.W	01/12/21
A	PRELIMINARY ISSUE	JD	14/09/21



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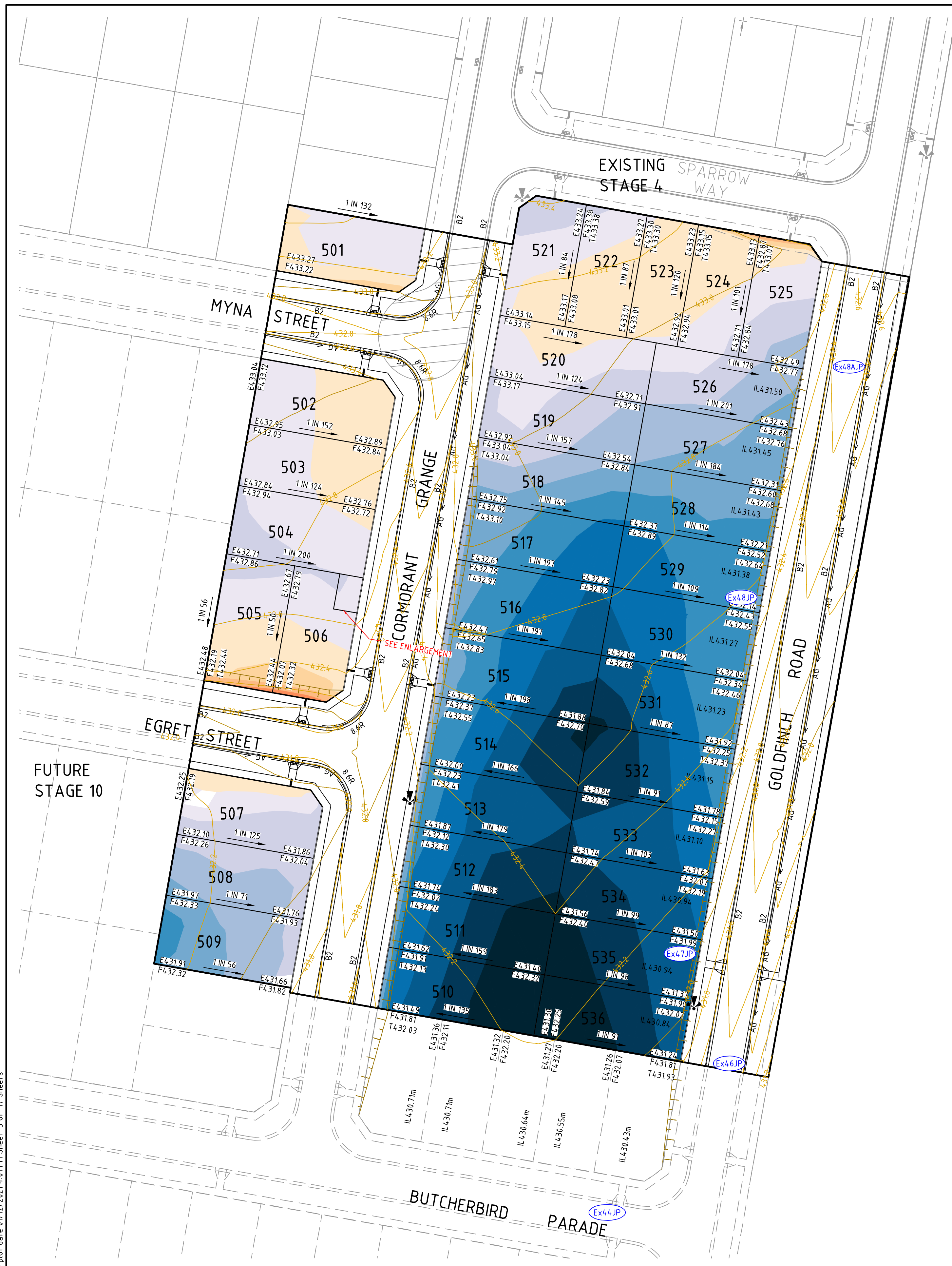
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 J.DOHERTY

Checked  
 B.IBBS  
 Date

**CONROY'S GREEN**  
**STAGE 5**  
**ROAD AND DRAINAGE**  
**ROAD LAYOUT PLANS - SHEET 1**  
 CITY OF BALLARAT  
 SAN HUBERTO PROPERTIES P/L

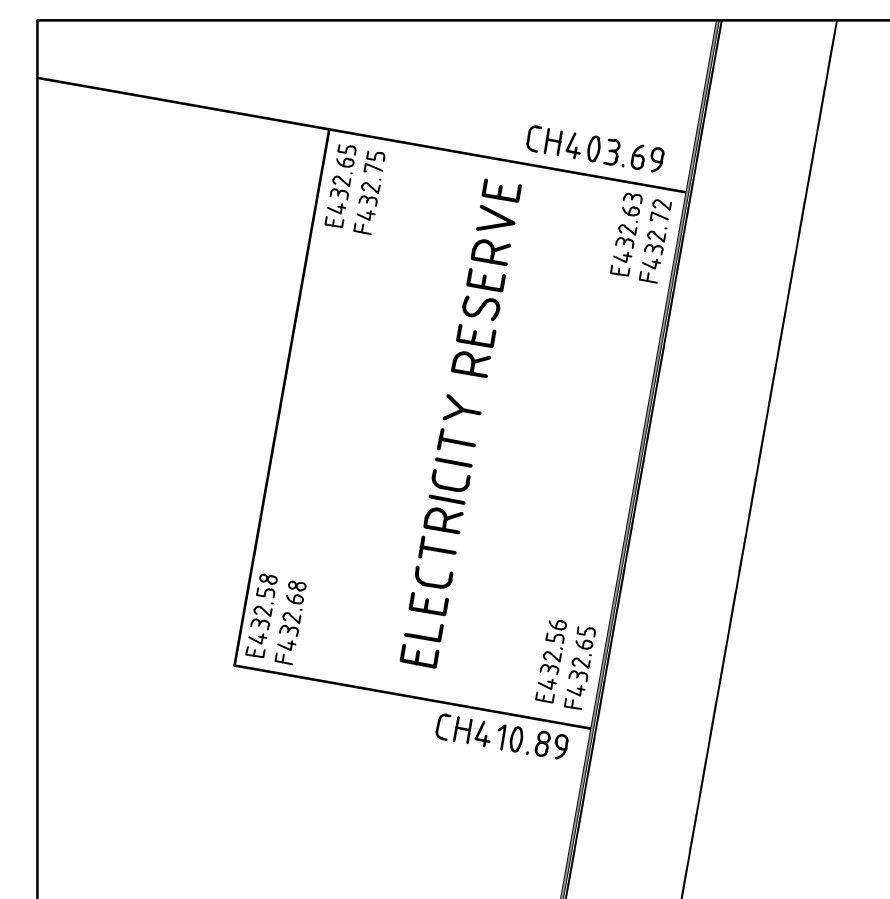
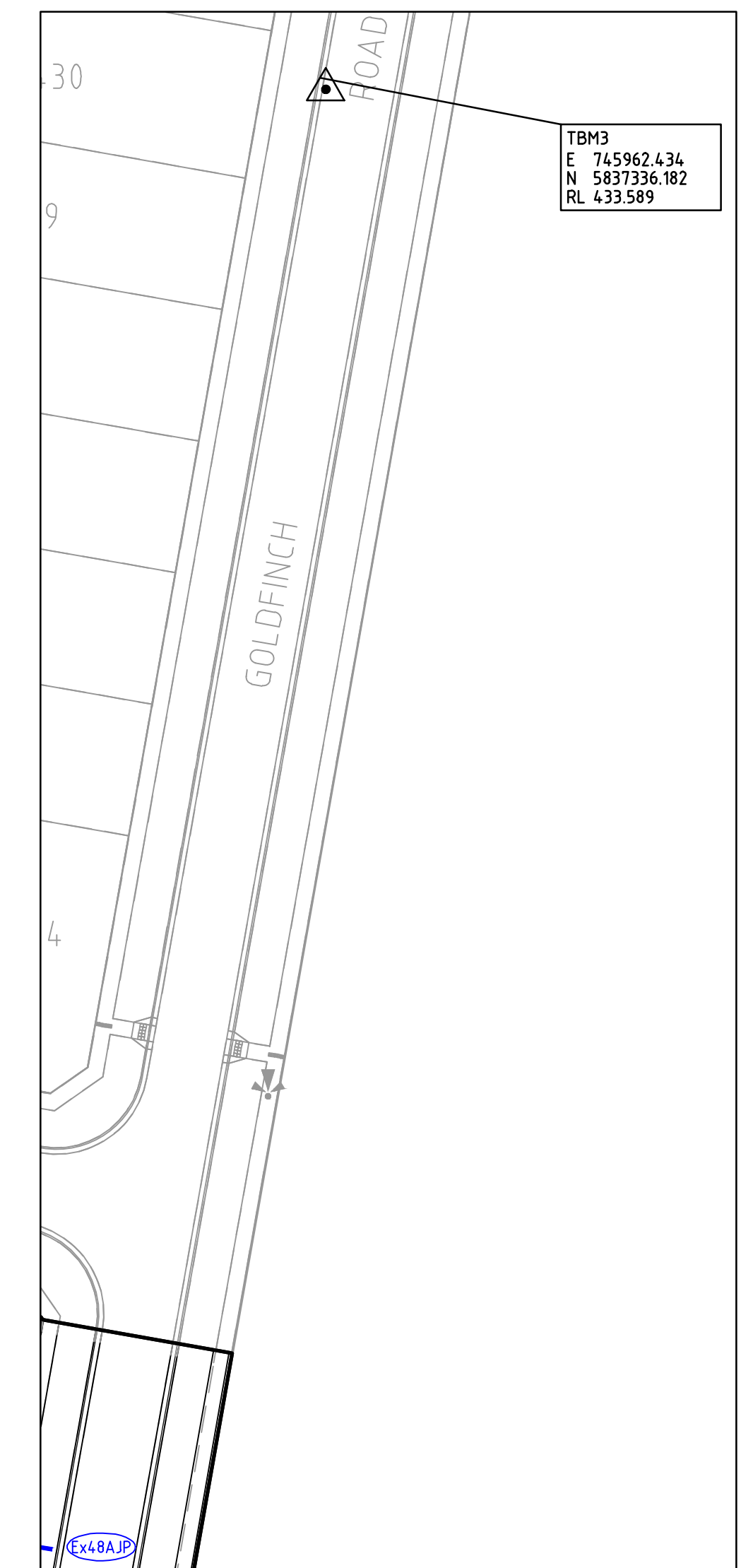
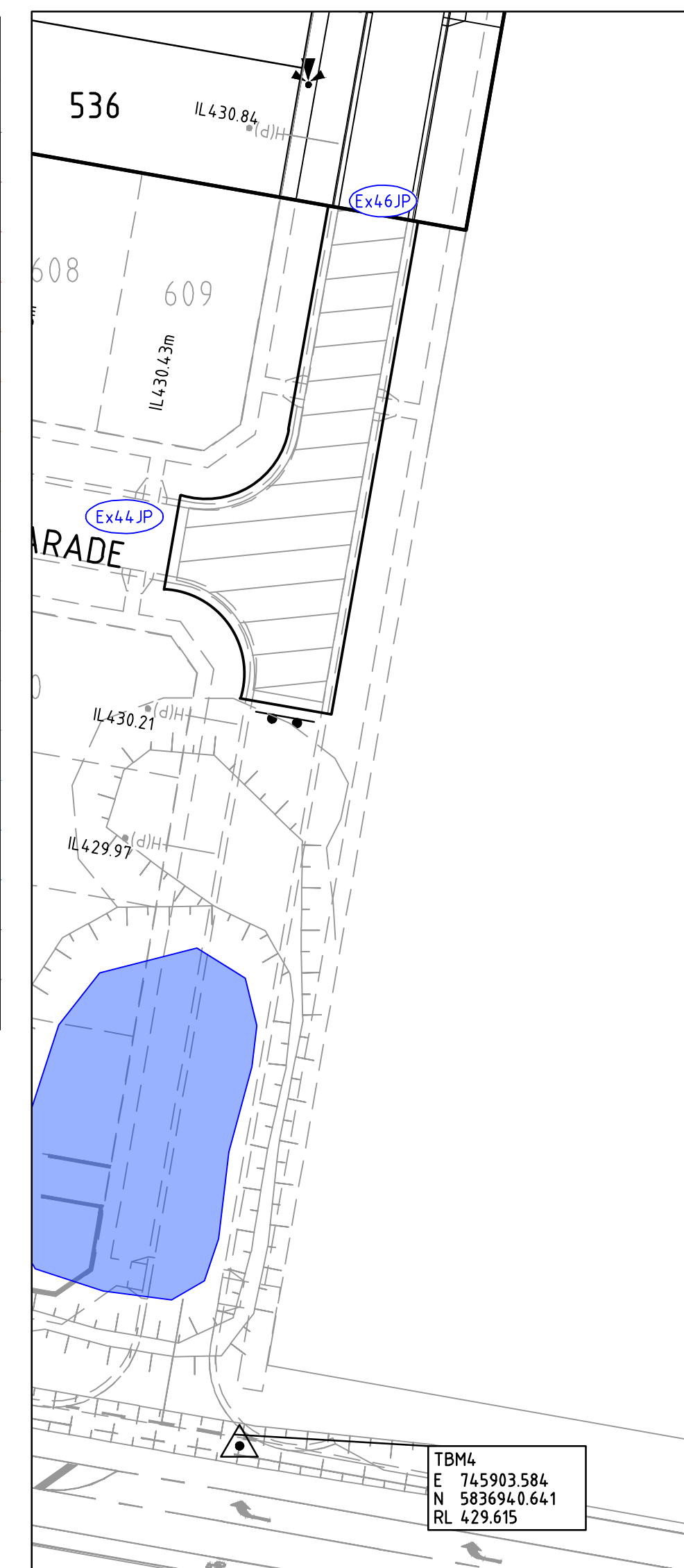
**PRELIMINARY** Drg No **309150CR200** Rev **B**





DEPTH RANGES (100mm)

FROM	TO	COLOUR
-	-0.80	
-0.80	-0.70	
-0.70	-0.60	
-0.60	-0.50	
-0.50	-0.40	
-0.40	-0.30	
-0.30	-0.20	
-0.20	-0.10	
-0.10	0.00	
0.00	0.10	
0.10	0.20	
0.20	0.30	
0.30	0.40	
0.40	0.50	
0.50	0.60	
0.60	0.70	
0.70	0.80	
0.80	+	



ENLARGEMENT  
SCALE 1:100 @A1

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By D. Hastings at 3:41 pm, Dec 22, 2021

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TBM LOCATIONS

Point Number	Easting	Northing	RL	D
4	745903.584	583694.0641	429.615	STAR PICKET
3	745587.066	583745.818	430.531	STAR PICKET

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Rev	Description	Approved	Date
A	PRELIMINARY ISSUE	JD	14/09/21
	Amendments		



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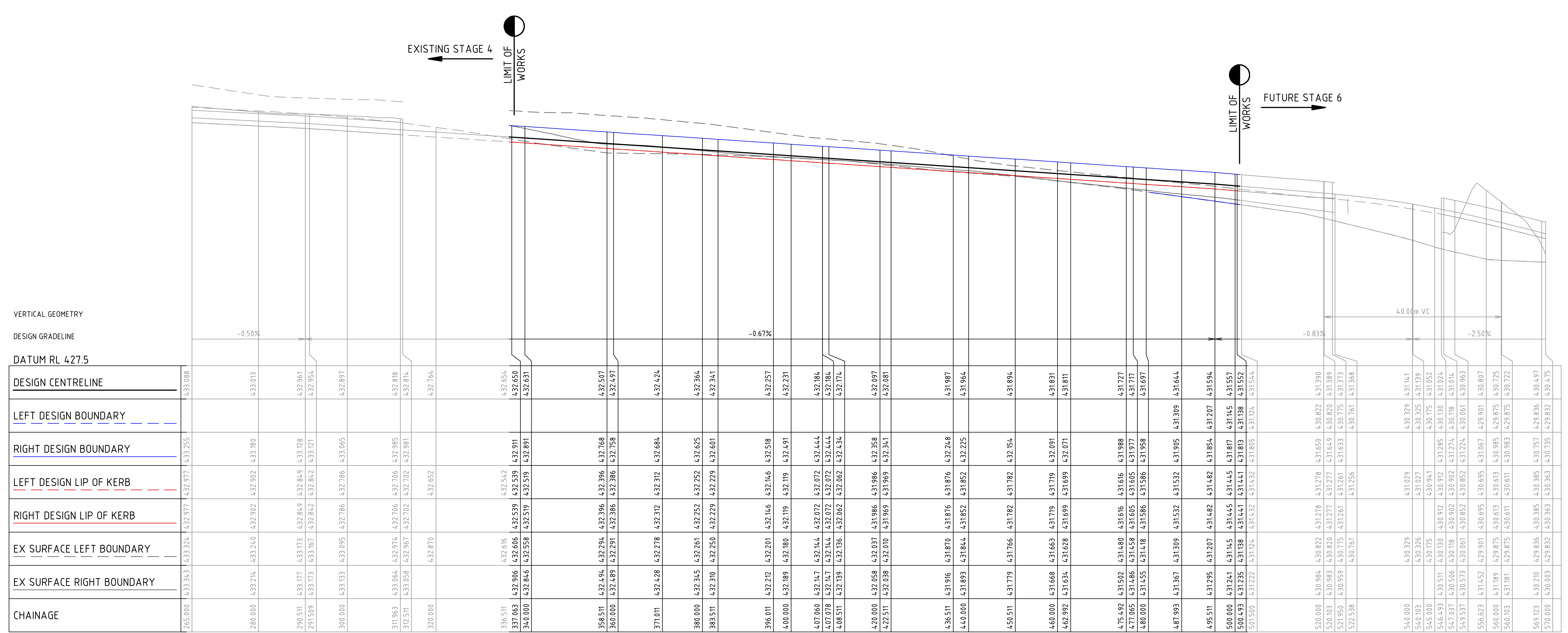
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**CONROY'S GREEN  
STAGE 5  
ROAD AND DRAINAGE  
ROAD LAYOUT PLANS - SHEET 2**  
CITY OF BALLARAT  
SAN HUBERTO PROPERTIES P/L

**PRELIMINARY** Drg No 309150CR201 Rev A



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GOLDFINCH ROAD

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

Rev	Description	JD	Date
A	PRELIMINARY ISSUE	JD	14/09/21
	Amendments	Approved	

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**CONROYS GREEN  
 STAGE 5  
 ROAD AND DRAINAGE  
 ROAD LONG SECTIONS - SHEET 1  
 CITY OF BALLARAT  
 SAN HUBERTO PROPERTIES P/L**

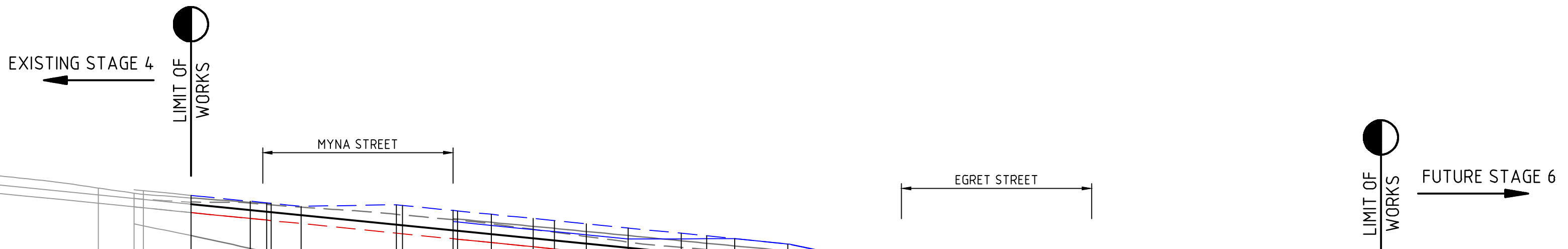
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VERTICAL GEOMETRY  
 DESIGN GRADELINE  
 DATUM RL 428.5

DESIGN CENTRELINE	433.800	433.700	433.673	433.668	433.500	433.493	433.300	433.253	433.241	433.178	433.100	432.908	432.834	432.828	432.813	432.783	432.658	432.603	432.500	432.463	432.233	432.113	432.100	432.100	432.006	431.933	431.923	431.903	431.819	431.798	431.767	431.703	431.694	431.600	431.598	431.527	431.518	431.515	431.521	431.587	431.617	431.672											
LEFT DESIGN BOUNDARY										433.293	433.215	433.169	433.094	433.088	433.044	432.989	432.960	432.864	432.866	432.863	432.863	432.819	432.728	432.728	432.722	432.611	432.611	432.588	431.934	431.934	431.913	431.881	431.817	431.809	431.600	431.598	431.600	431.508	431.515	431.521	431.587	431.617	431.672										
RIGHT DESIGN BOUNDARY																																																					
LEFT DESIGN LIP OF KERB	433.688	433.588	433.561	433.556	433.388	433.381	433.188	433.141	433.129	433.066	432.988	432.796	432.722	432.716	432.671	432.616	432.566	432.491	432.486	432.466	432.466	432.428	432.413	432.407	432.353	432.353	432.258	431.900	431.900	431.887	431.855	431.783	431.767	431.683	431.600	431.598	431.600	431.488	431.487	431.415	431.407	431.515	431.521	431.587	431.617	431.672							
RIGHT DESIGN LIP OF KERB																																																					
EX SURFACE LEFT BOUNDARY	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199	433.199				
EX SURFACE RIGHT BOUNDARY																																																					
CHAINAGE	270.000	280.000	282.685	283.235	300.000	300.285	300.685	320.000	324.685	325.935	332.190	340.000	342.135	342.735	346.685	359.185	360.000	366.635	367.235	371.685	371.785	380.000	384.185	388.685	396.685	400.000	400.685	410.685	420.000	424.685	426.135	426.735	436.685	440.000	440.685	450.000	500.000	500.185	508.800	510.135	511.600	513.675	518.549	520.000	522.685								

CORMORANT GRANGE



**APPROVED** CITY OF BALLARAT  
 By D. Hastings at 3:41 pm, Dec 22, 2021

Scale	H 1:500 SCALE @ A1 V 1:50	0 5 10 15 20 25 0 0.5 1 1.5 2 2.5
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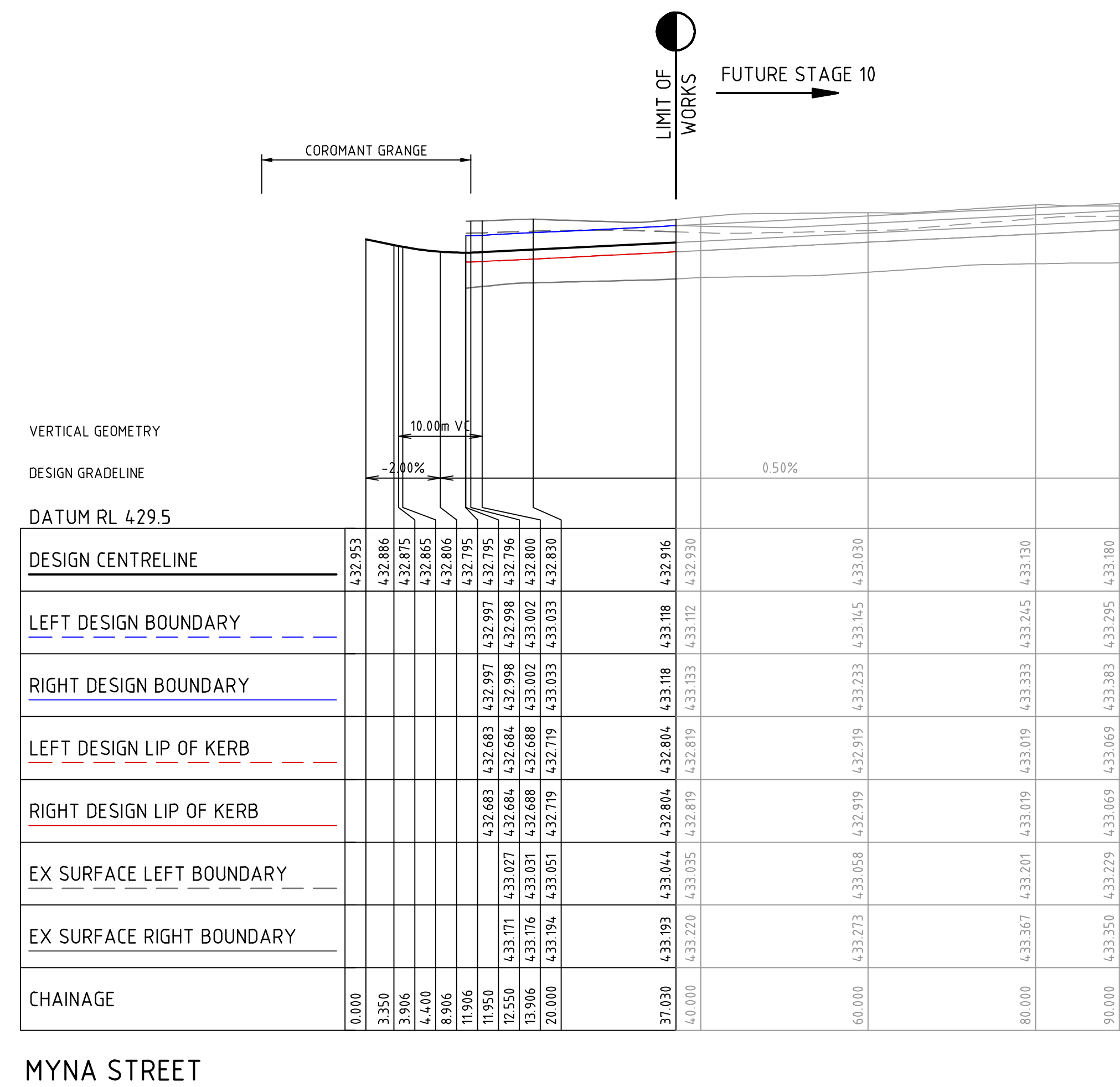
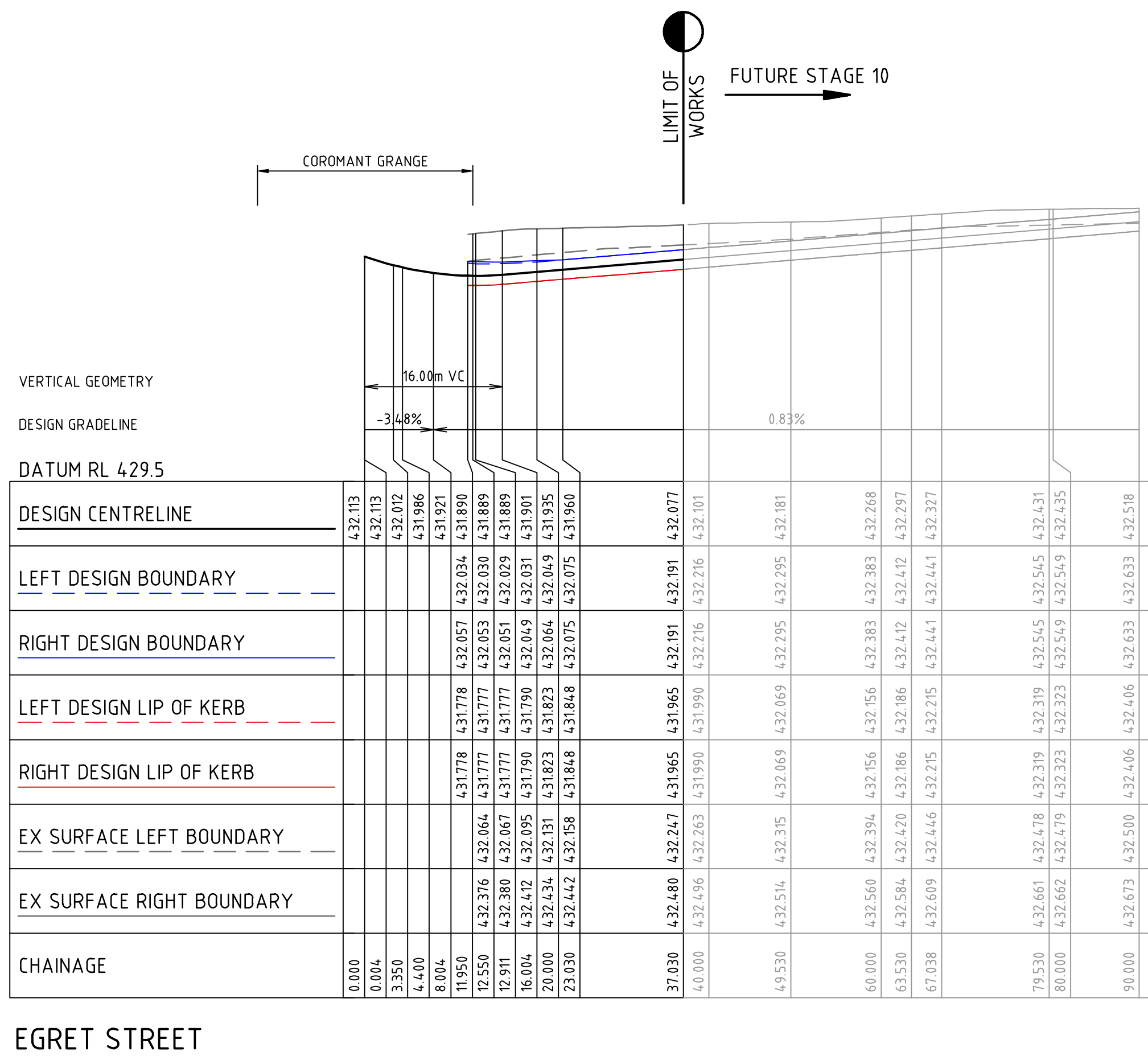
Designed	S.WOOD	Checked	B.IBBS
Authorised	J.DOHERTY	Date	

Scale	H 1:500 SCALE @ A1 V 1:50	0 5 10 15 20 25 0 0.5 1 1.5 2 2.5	© Spiire Australia Pty Ltd All Rights Reserved <small>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.</small>	<p>16 BRIDGE STREET BENDIGO              VICTORIA 3550 AUSTRALIA T 61 3 5448 2500              spiire.com.au ABN 55 050 029 635</p>	
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**CONROYS GREEN STAGE 5 ROAD AND DRAINAGE ROAD LONG SECTIONS - SHEET 2 CITY OF BALLARAT SAN HUBERTO PROPERTIES P/L**

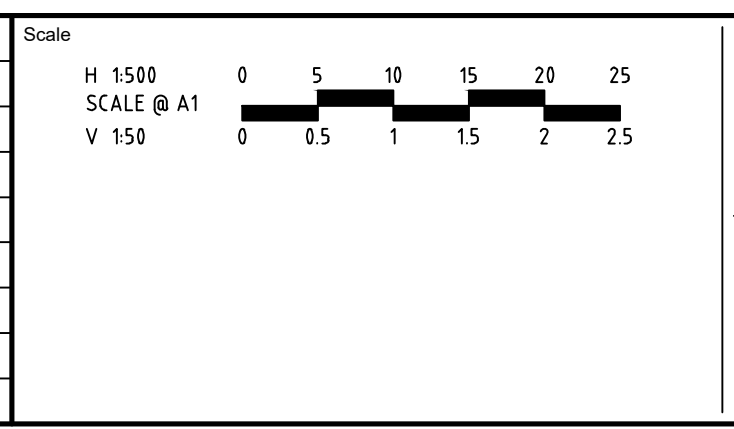
**PRELIMINARY** Drg No 309150CR301 Rev A





file name: 309150CR302.dwg, layout: crns\_C302, plotted by: Ashley Willis, file location: G:\309150\309150\DWG\309150\309150\309150.dwg, plot date: 11/12/2021, 4:01 PM, Sheet: 6 of 17, Sheets

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Rev	A	PRELIMINARY ISSUE	JD	14/09/21
		Amendments	Approved	Date



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**J.DOHERTY**

Checked  
**B.IBBS**

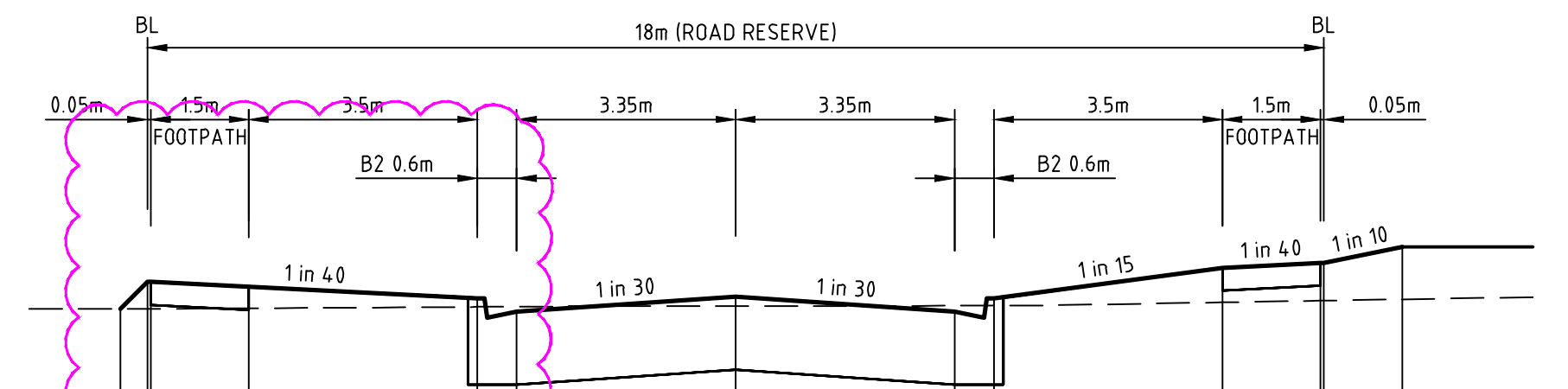
Date

APPROVED CITY OF BALLARAT  
By D. Hastings at 3:41 pm, Dec 22, 2021

**CONROYS GREEN**  
**STAGE 5**  
**ROAD AND DRAINAGE**  
**ROAD LONG SECTIONS - SHEET 3**  
CITY OF BALLARAT  
SAN HUBERTO PROPERTIES P/L

**PRELIMINARY** Drg No **309150CR302** Rev **A**

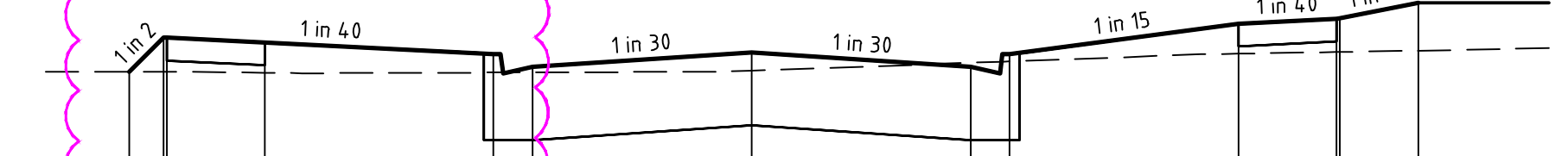
**FILLING NOTE**  
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DATUM R.L.431.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

GOLDFINCH ROAD

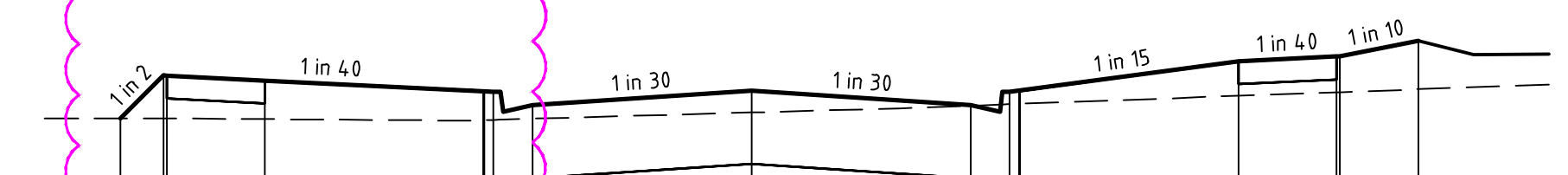
CH 383.51



DATUM R.L.431.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

GOLDFINCH ROAD

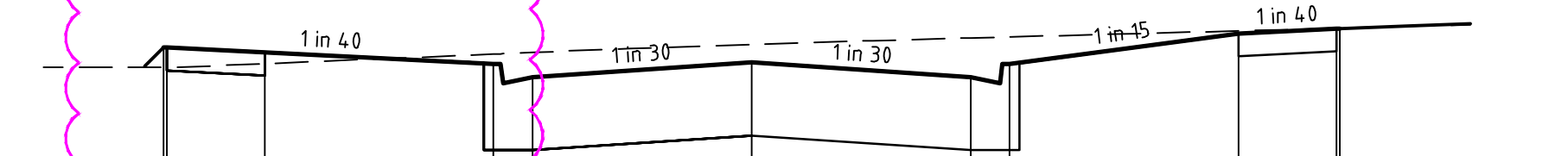
CH 371.01



DATUM R.L.431.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

GOLDFINCH ROAD

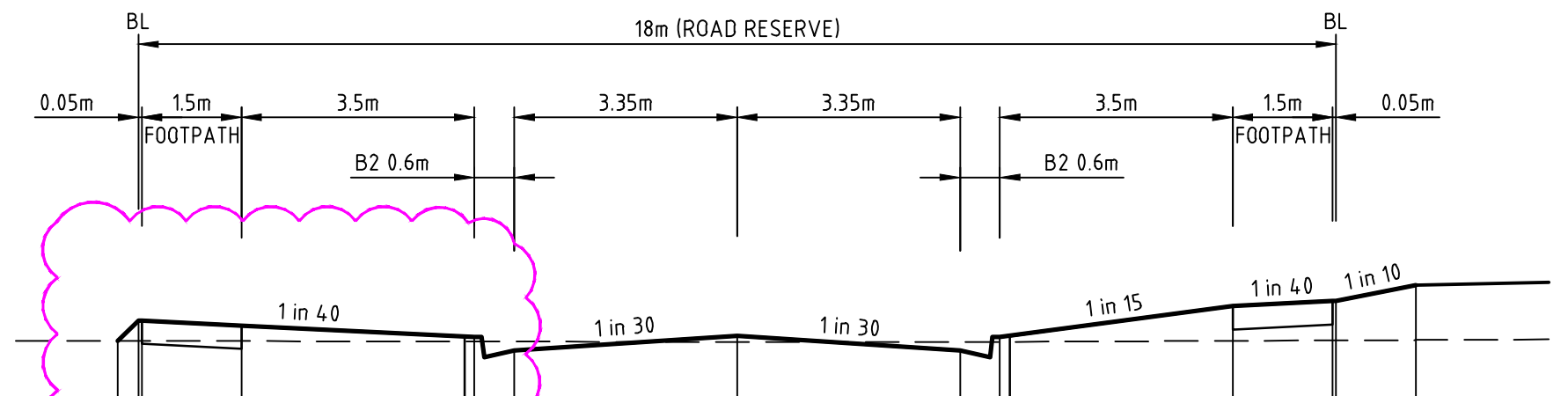
CH 358.51



DATUM R.L.431.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

GOLDFINCH ROAD

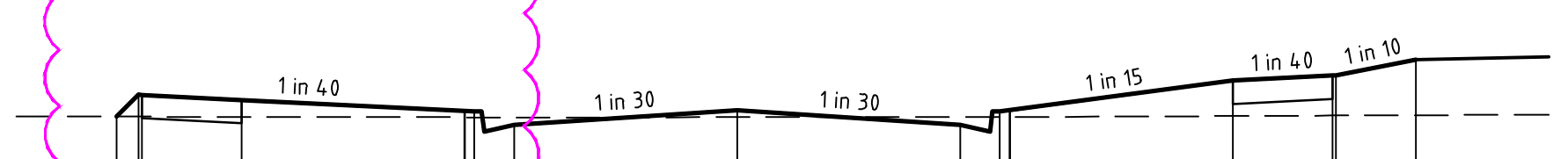
CH 336.51



DATUM R.L.431.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

GOLDFINCH ROAD

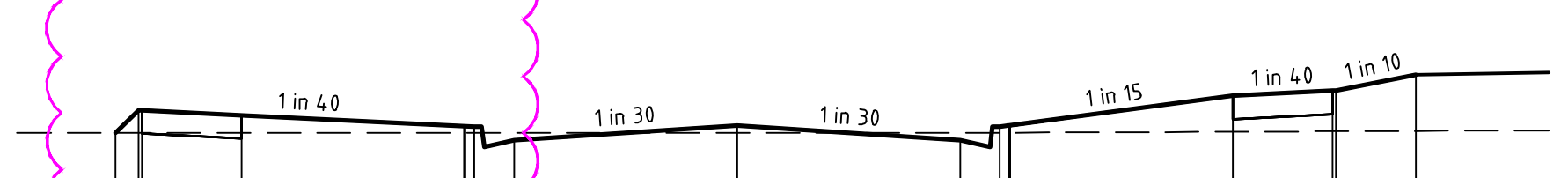
CH 407.06



DATUM R.L.431.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

GOLDFINCH ROAD

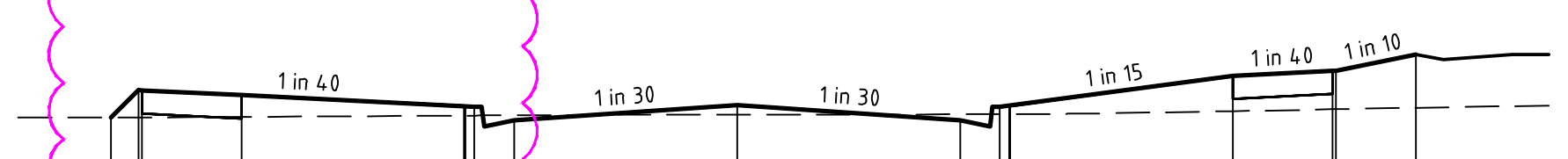
CH 400.00



DATUM R.L.431.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

GOLDFINCH ROAD

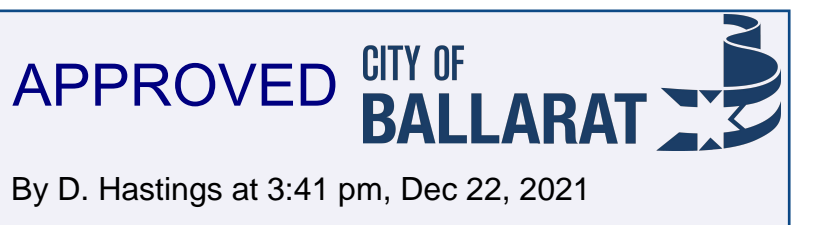
CH 396.01



DATUM R.L.431.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

GOLDFINCH ROAD

CH 383.51



file name: 309150CR400.dwg, layout name: CR400, created by: Ashley Willis, file location: G:\309150\309150\309150\309150\CADD\Plot date: 07/12/2021, 4:02 PM, Sheet 7 of 17 Sheets

Scale	H 1:100	0 1 2 3 4 5	
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	V 1:50		
Rev	Description	Approved	Date
B	ADDED FOOTPATH ALONG GOLDFINCH RD	A.W	01/12/21
A	PRELIMINARY ISSUE	JD	14/09/21

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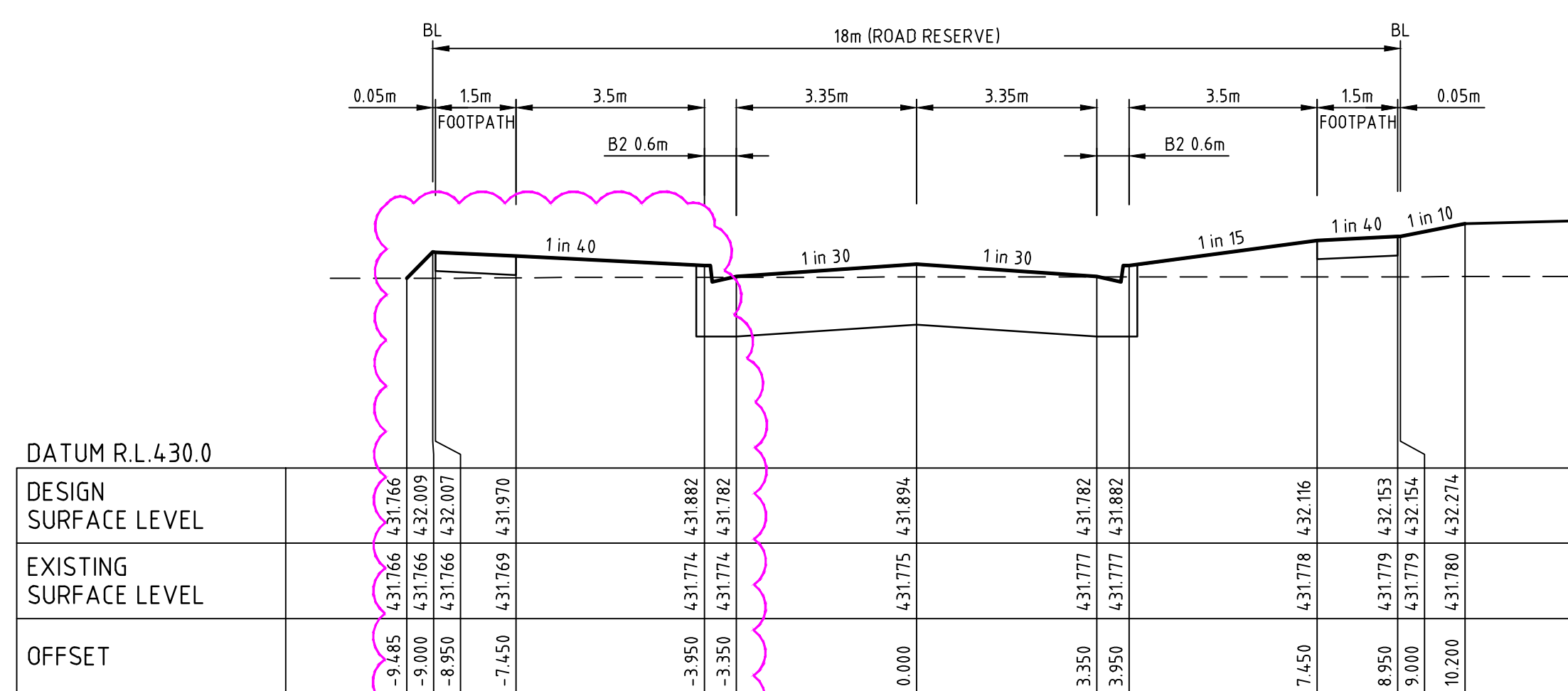
16 BRIDGE STREET BENDIGO
   
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Designed	S.WOOD	Checked	B.IBBS
Authorised	J.DOHERTY	Date	

**CONROY'S GREEN**
  
**STAGE 5**
  
 ROAD AND DRAINAGE
   
 ROAD CROSS SECTIONS - SHEET 1
   
 CITY OF BALLARAT
   
 SAN HUBERTO PROPERTIES P/L
   
**PRELIMINARY**
  
Dwg No **309150CR400**
  
Rev **B**

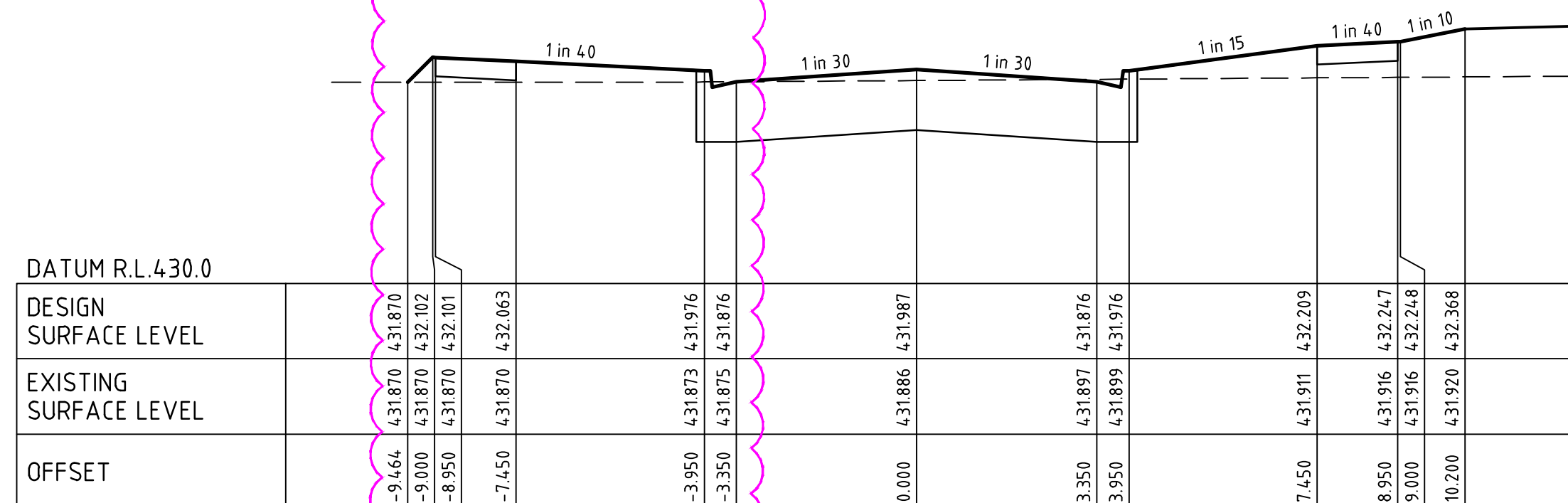


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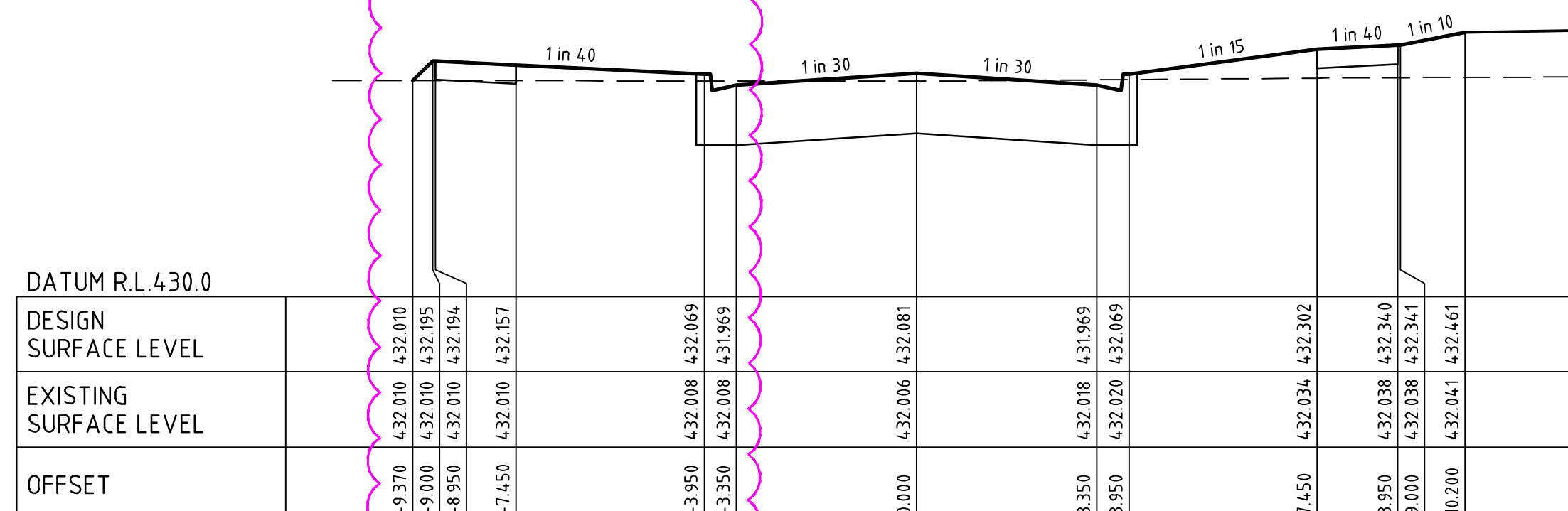
GOLDFINCH ROAD

CH 450.51



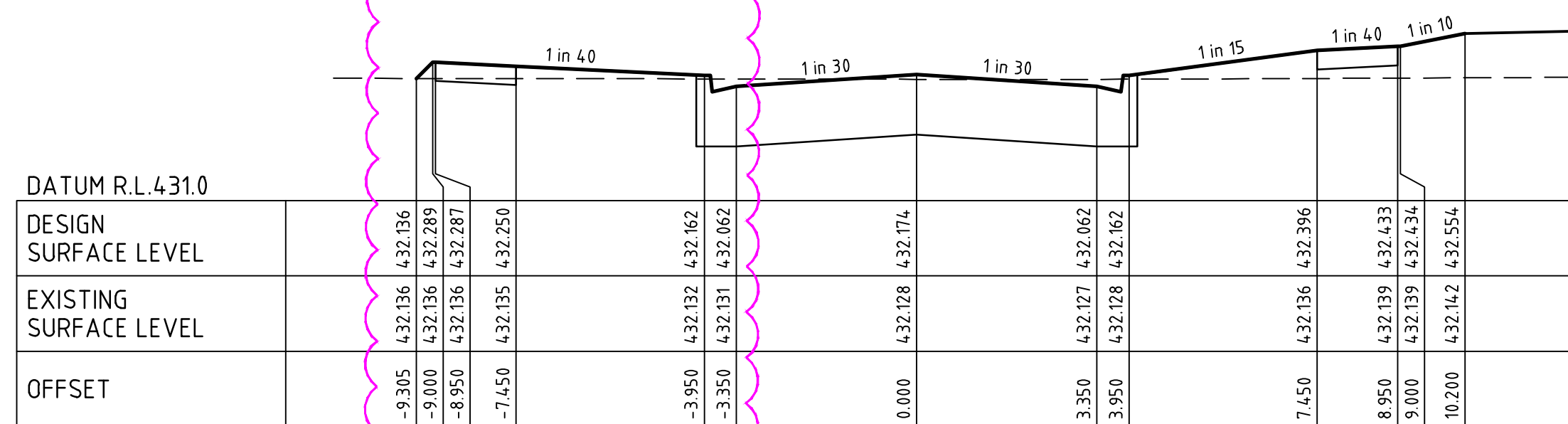
GOLDFINCH ROAD

CH 436.51



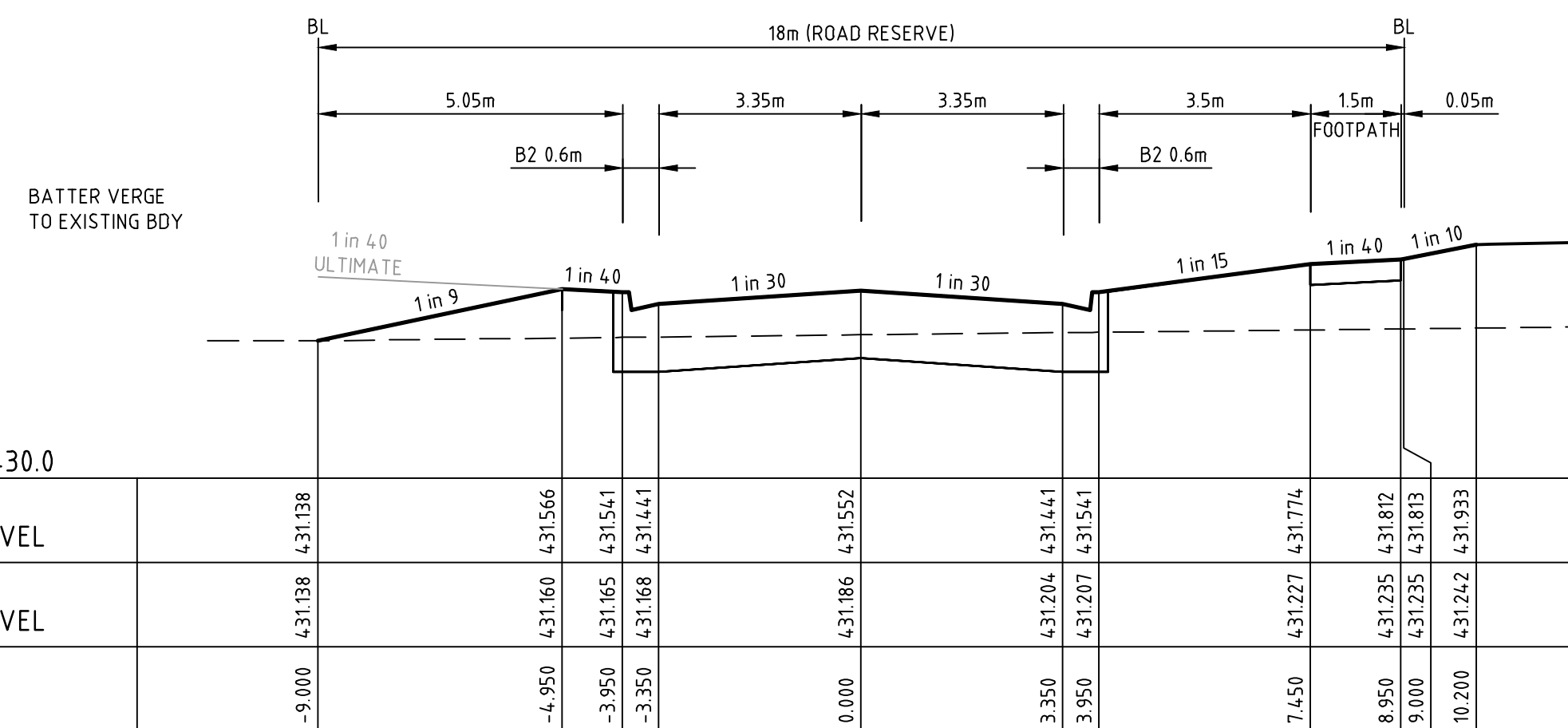
GOLDFINCH ROAD

CH 422.51



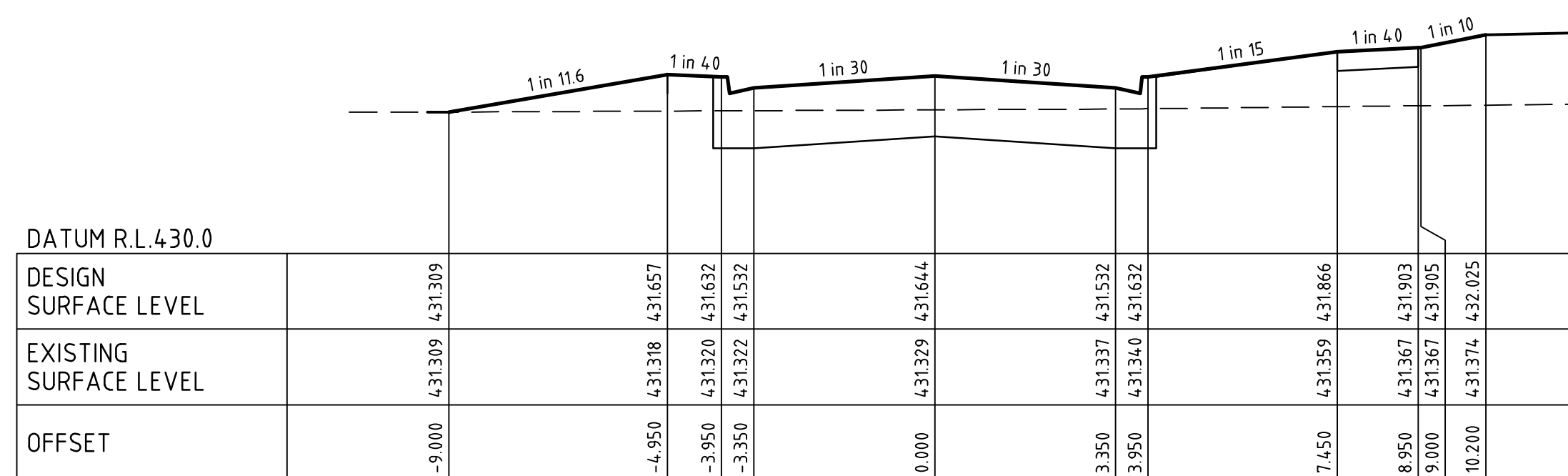
GOLDFINCH ROAD

CH 408.51



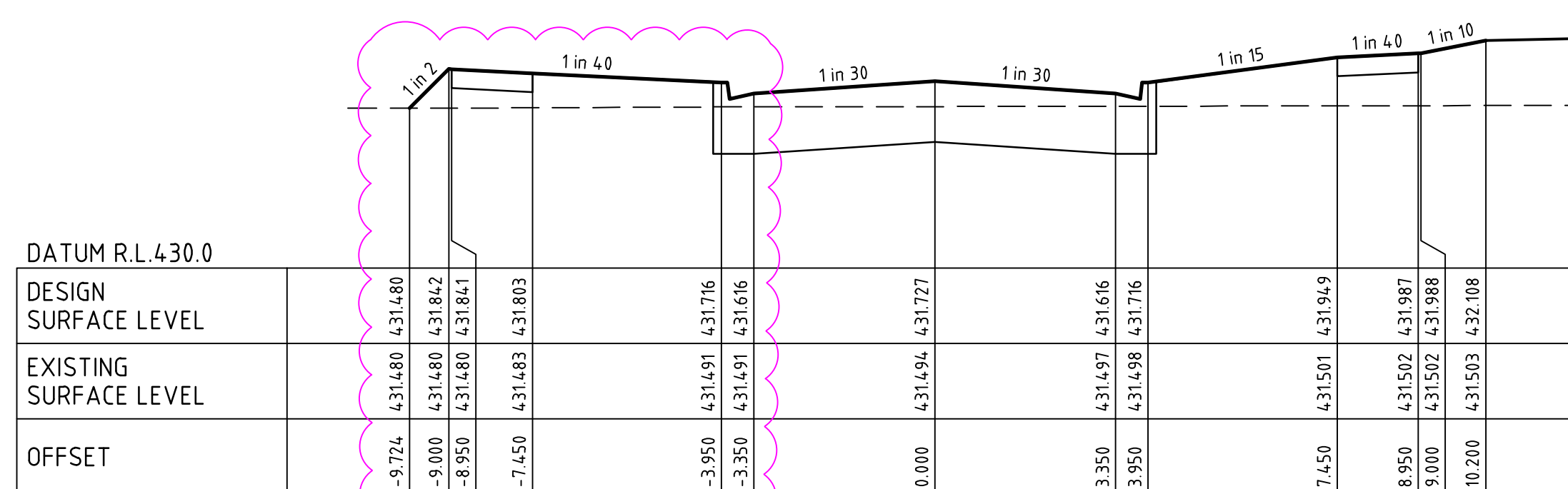
GOLDFINCH ROAD

CH 500.49



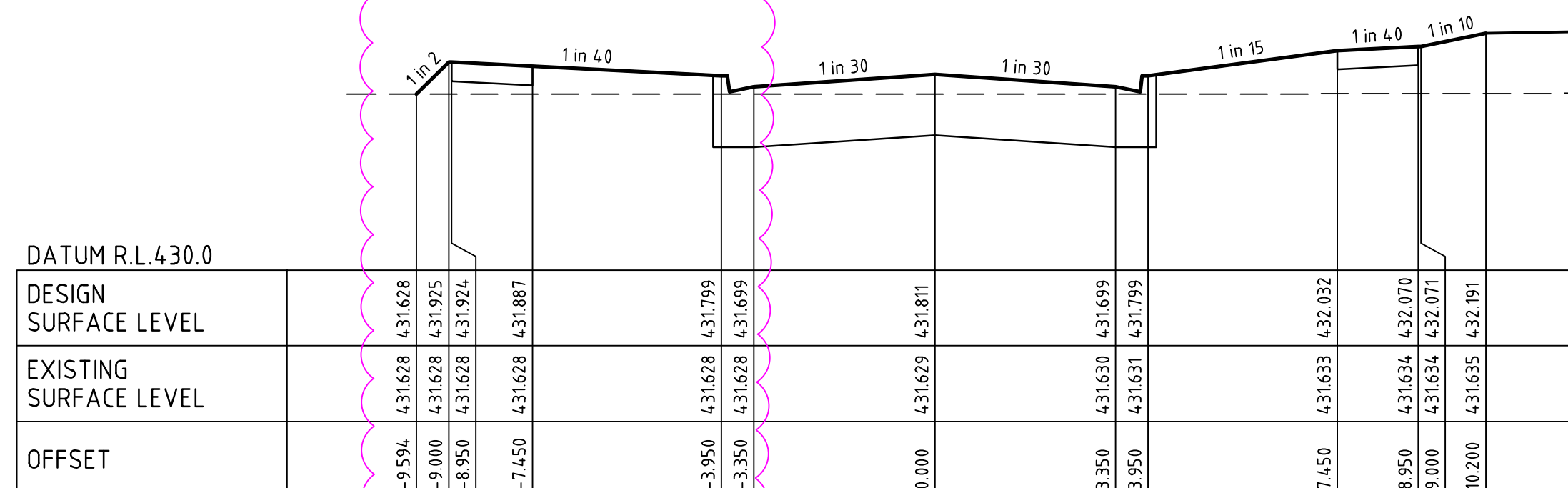
GOLDFINCH ROAD

CH 487.99



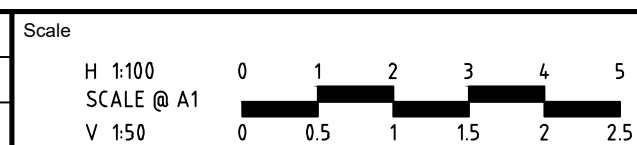
GOLDFINCH ROAD

CH 475.49



GOLDFINCH ROAD

CH 462.99



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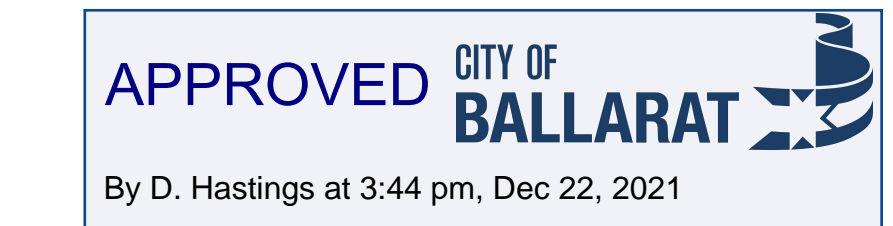
16 BRIDGE STREET BENDIGO  
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**S.WOOD**  
 Authorised  
**J.DOHERTY**

Checked  
**B.IBBS**  
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**CONROYS GREEN**  
**STAGE 5**  
**ROAD AND DRAINAGE**  
**ROAD CROSS SECTIONS - SHEET 2**  
 CITY OF BALLARAT  
 SAN HUBERTO PROPERTIES P/L

**PRELIMINARY** Drg No **309150CR401** Rev **B**



file name: 309150CR401.dwg, layout: crss, cadd, plotted by: Ashley Willis, plot date: 01/12/2021, plot time: 14:02:PM, sheet: 8 of 17, sheets

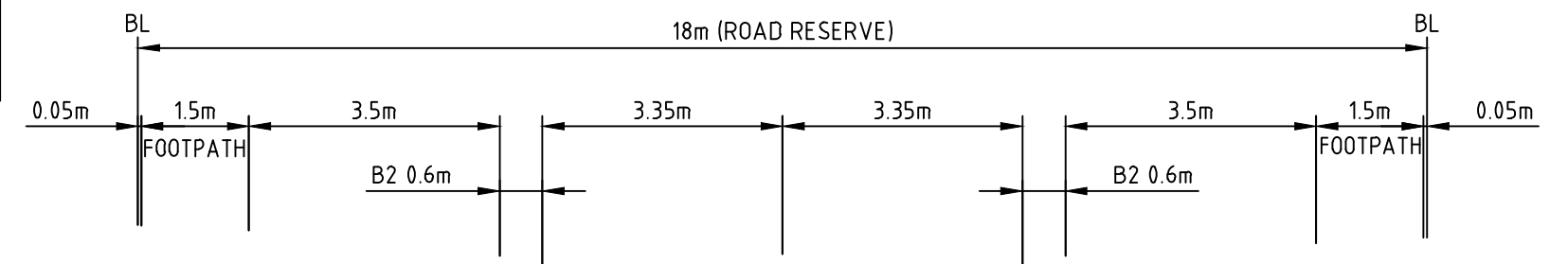
Rev	Description	Approved	Date
B	ADDED FOOTPATH ALONG GOLDFINCH RD	A.W	01/12/21
A	PRELIMINARY ISSUE	JD	21/09/21
	Amendments	Approved	Date







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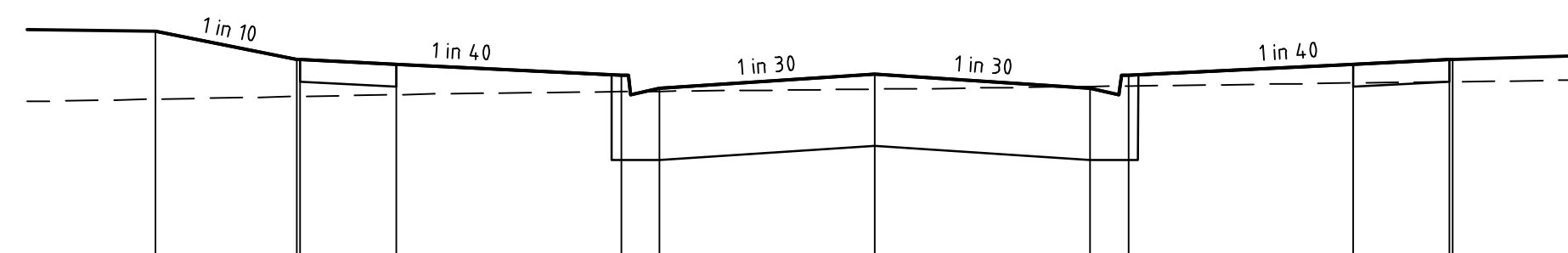


DATUM R.L. 430.0

DESIGN SURFACE LEVEL														
EXISTING SURFACE LEVEL	431.467	431.809	431.808	431.770	431.683	431.583	431.694	431.583	431.683	431.663	431.770	431.808	431.809	431.809
OFFSET	-11.200	-9.000	-8.950	-7.450	-3.950	-3.350	0.000	3.350	3.950	7.450	8.950	9.000	9.000	9.000

CORMORANT GRANGE

CH 488.69

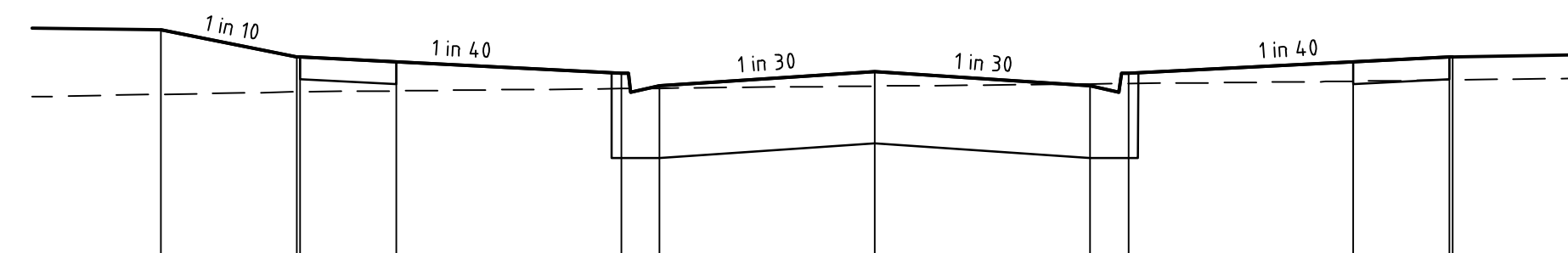


DATUM R.L. 430.0

DESIGN SURFACE LEVEL														
EXISTING SURFACE LEVEL	431.623	431.934	431.933	431.895	431.808	431.708	431.819	431.708	431.808	431.749	431.895	431.933	431.934	431.934
OFFSET	-11.200	-9.000	-8.950	-7.450	-3.950	-3.350	0.000	3.350	3.950	7.450	8.950	9.000	9.000	9.000

CORMORANT GRANGE

CH 473.69

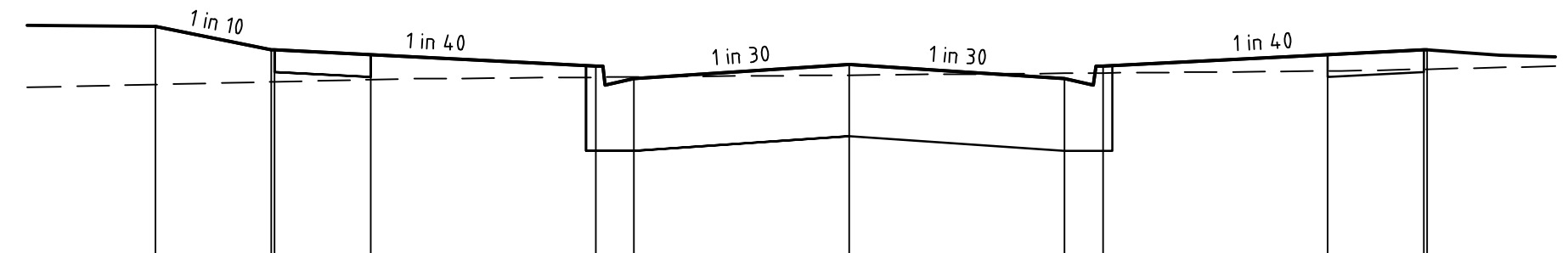


DATUM R.L. 430.0

DESIGN SURFACE LEVEL														
EXISTING SURFACE LEVEL	431.745	432.038	432.037	431.999	431.912	431.812	431.923	431.812	431.912	431.848	431.999	432.037	432.038	432.038
OFFSET	-11.200	-9.000	-8.950	-7.450	-3.950	-3.350	0.000	3.350	3.950	7.450	8.950	9.000	9.000	9.000

CORMORANT GRANGE

CH 461.19



DATUM R.L. 430.0

DESIGN SURFACE LEVEL														
EXISTING SURFACE LEVEL	431.854	432.126	432.125	432.087	432.000	431.900	432.011	431.900	432.000	431.959	432.087	432.125	432.126	432.126
OFFSET	-10.800	-9.000	-8.950	-7.450	-3.950	-3.350	0.000	3.350	3.950	7.450	8.950	9.000	9.000	9.000

CORMORANT GRANGE

CH 450.64

file name: 309150CR403.dwg, layout: csmr\_cru03, created by: Ashley Willis, file location: G:\309150\309150\309150\309150\309150.dwg, plot date: 07/12/2021, 4:02 PM, Sheet 10 of 17 Sheets

Scale	H 1:100 SCALE @ A1 V 1:50		
Scale			
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Authorised	J.DOHERTY	Date	
Rev	A	PRELIMINARY ISSUE	JD 21/09/21
Rev		Amendments	Approved Date

Scale  
 H 1:100  
 SCALE @ A1  
 V 1:50

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Designed  
 S.WOOD

Authorised  
 J.DOHERTY

Checked  
 B.IBBS

Date

APPROVED CITY OF BALLARAT

By D. Hastings at 3:44 pm, Dec 22, 2021

CONROYS GREEN  
 STAGE 5  
 ROAD AND DRAINAGE  
 ROAD CROSS SECTIONS - SHEET 4  
 CITY OF BALLARAT  
 SAN HUBERTO PROPERTIES P/L

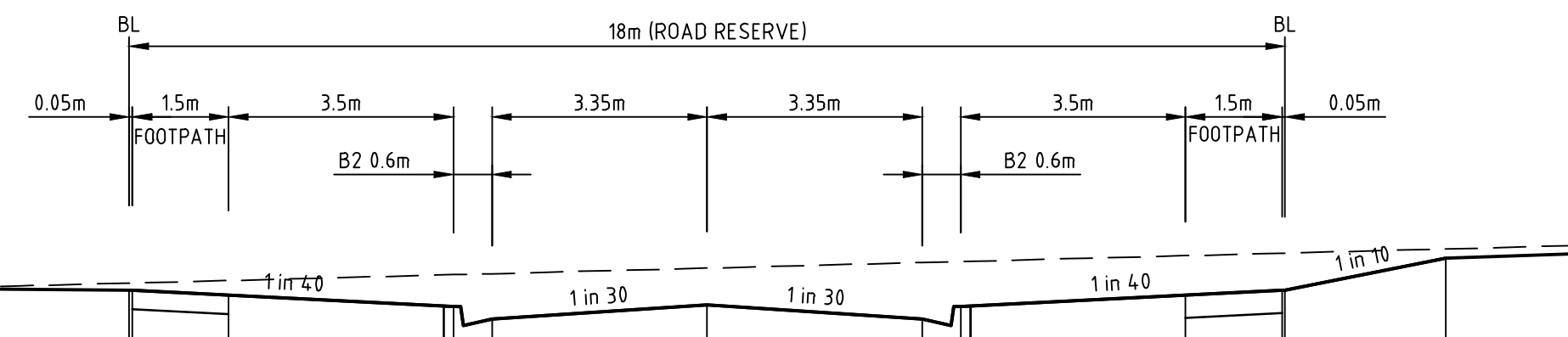
PRELIMINARY

Drg No  
**309150CR403**

Rev  
**A**

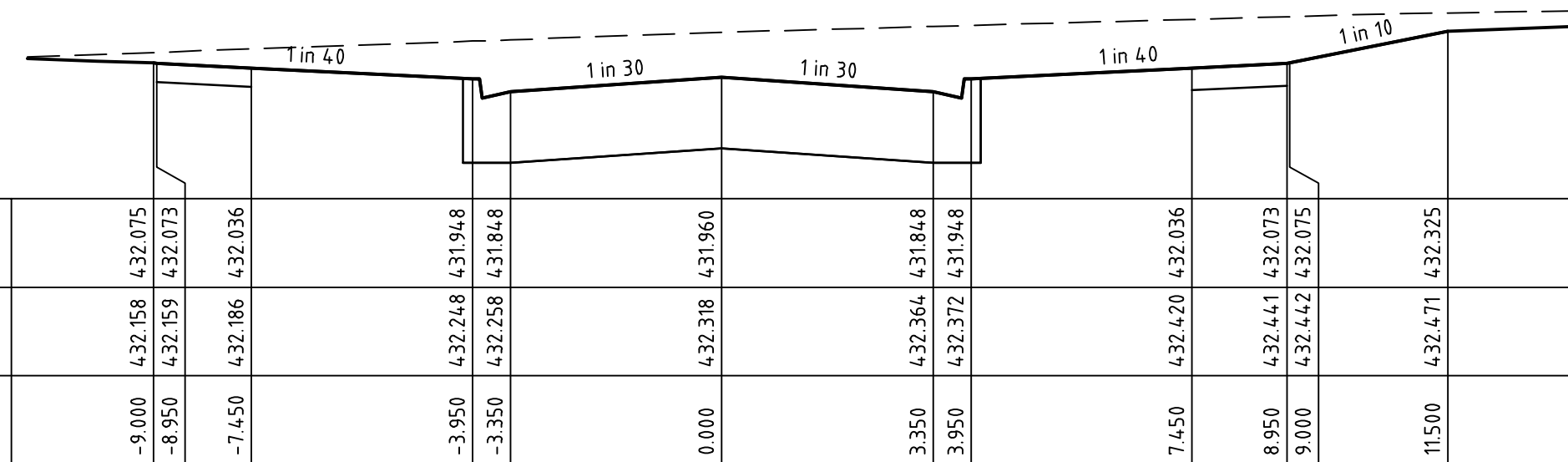


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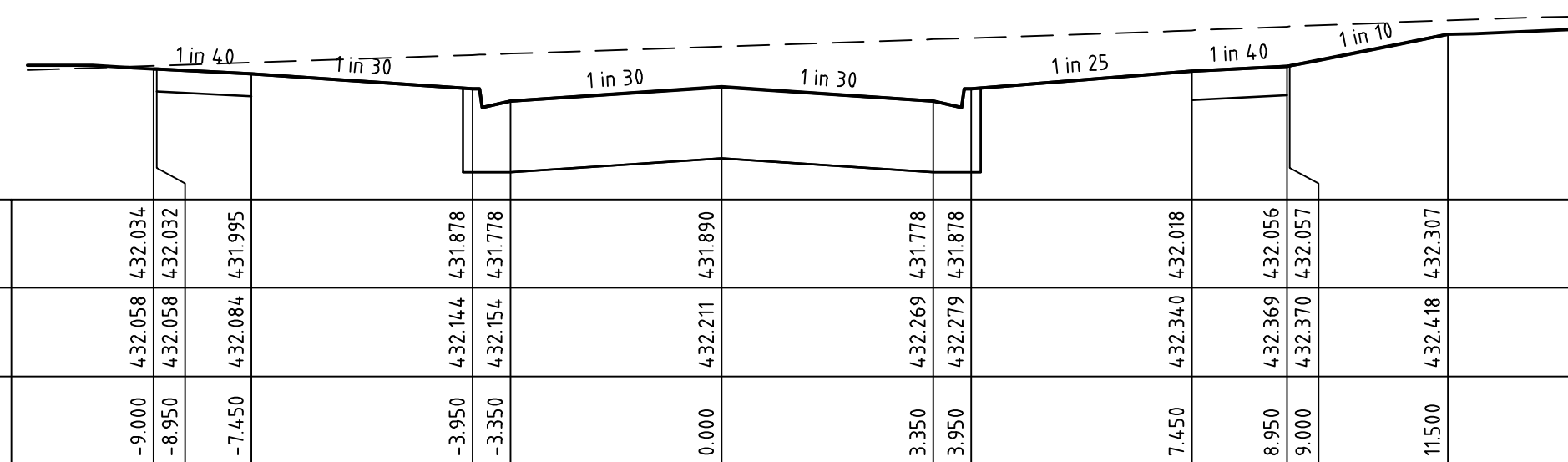
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EXISTING SURFACE LEVEL	
OFFSET	

EGRET STREET CH 37.03



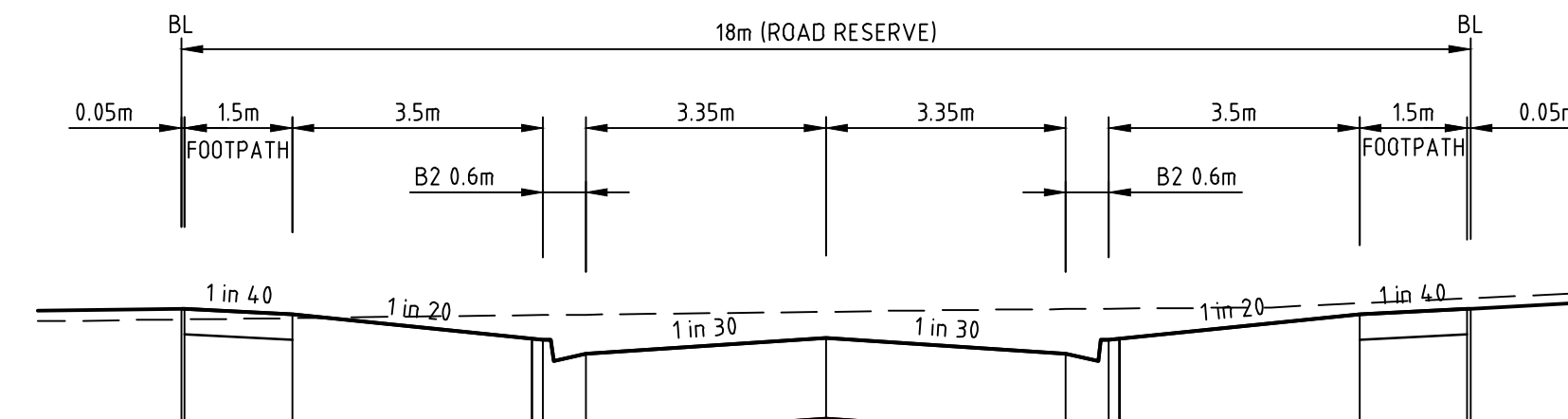
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DESIGN SURFACE LEVEL	-9.000 432.158 432.073 -8.950 432.159 432.073 -7.450 432.186 432.036 -3.950 432.248 431.948 -3.350 432.258 431.848 0.000 432.318 431.960 3.350 432.364 431.848 3.950 432.372 431.948 7.450 432.420 432.036 8.950 432.441 432.073 9.000 432.442 432.073 11.500 432.471 432.325
EXISTING SURFACE LEVEL	
OFFSET	

EGRET STREET CH 23.03



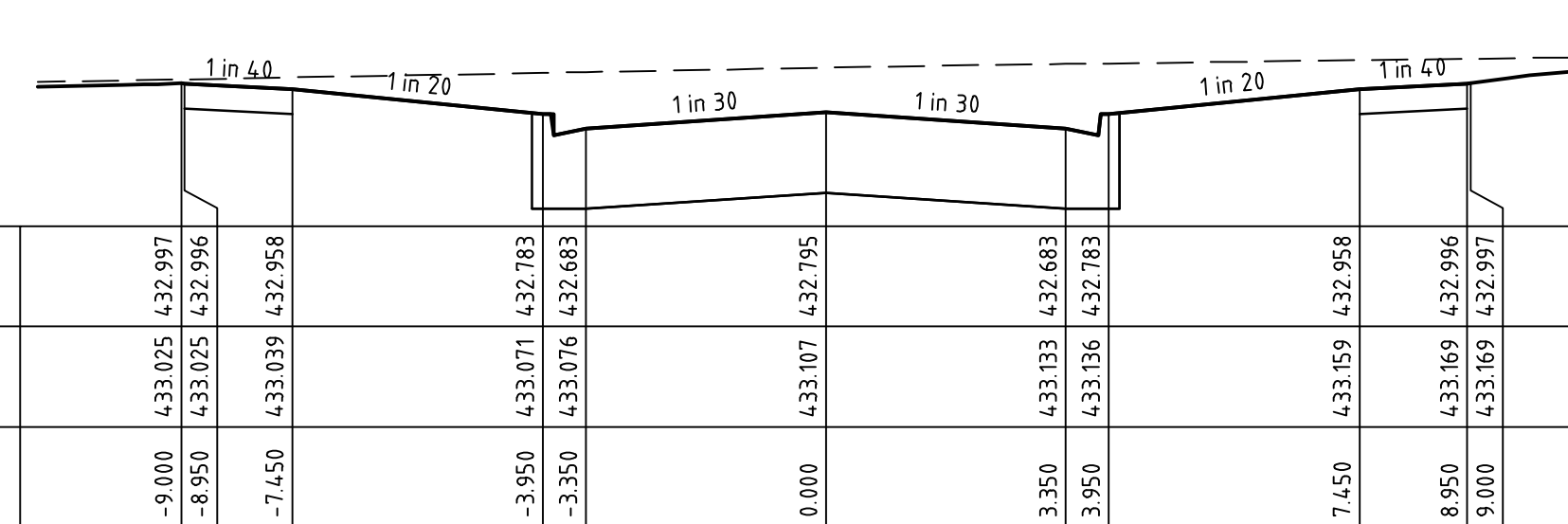
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EXISTING SURFACE LEVEL	
OFFSET	

EGRET STREET CH 11.95



DATUM R.L. 432.0	
DESIGN SURFACE LEVEL	-9.000 433.044 433.116 -8.950 433.044 433.116 -7.450 433.054 433.079 -3.950 433.075 432.904 -3.350 433.078 432.804 0.000 433.099 432.916 3.350 433.117 432.804 3.950 433.119 432.904 7.450 433.157 433.079 8.950 433.192 433.116 9.000 433.193 433.118
EXISTING SURFACE LEVEL	
OFFSET	

MYNA STREET CH 37.03



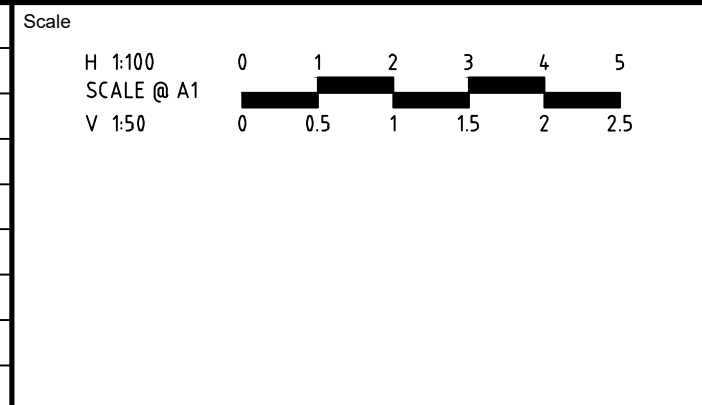
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EXISTING SURFACE LEVEL	
OFFSET	

MYNA STREET CH 11.95

**APPROVED** CITY OF BALLARAT  
 By D. Hastings at 3:45 pm, Dec 22, 2021

file name: 309150CR404.dwg, layout name: CD04, plotted by: Ashley Willis, file location: G:\309150\309150\CD04\CD04.dwg, plot date: 07/02/2021, 4:02 PM, Sheet: 11 of 11 Sheets

Rev	Description	Approved	Date
A	PRELIMINARY ISSUE	JD	21/09/21
	Amendments		



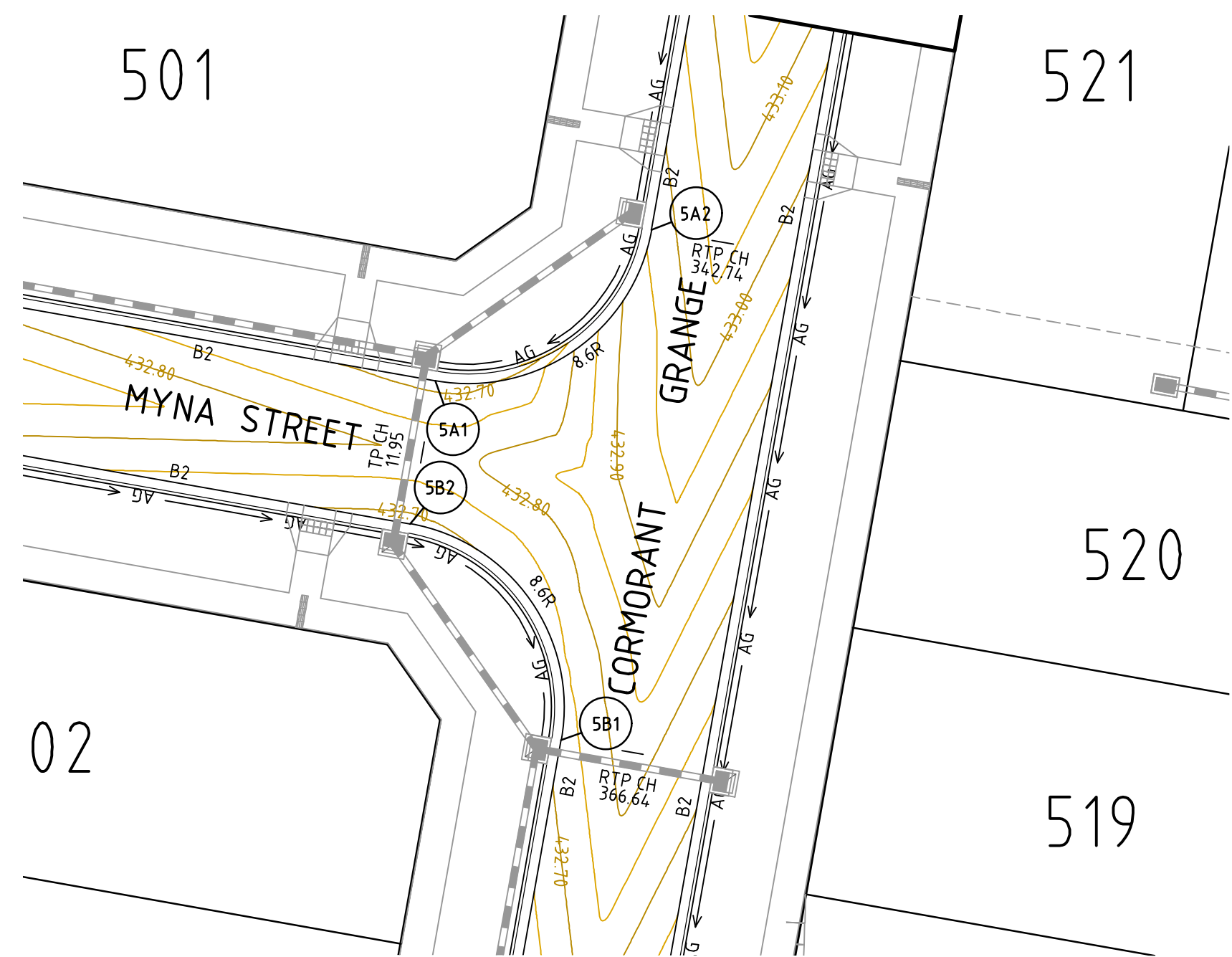
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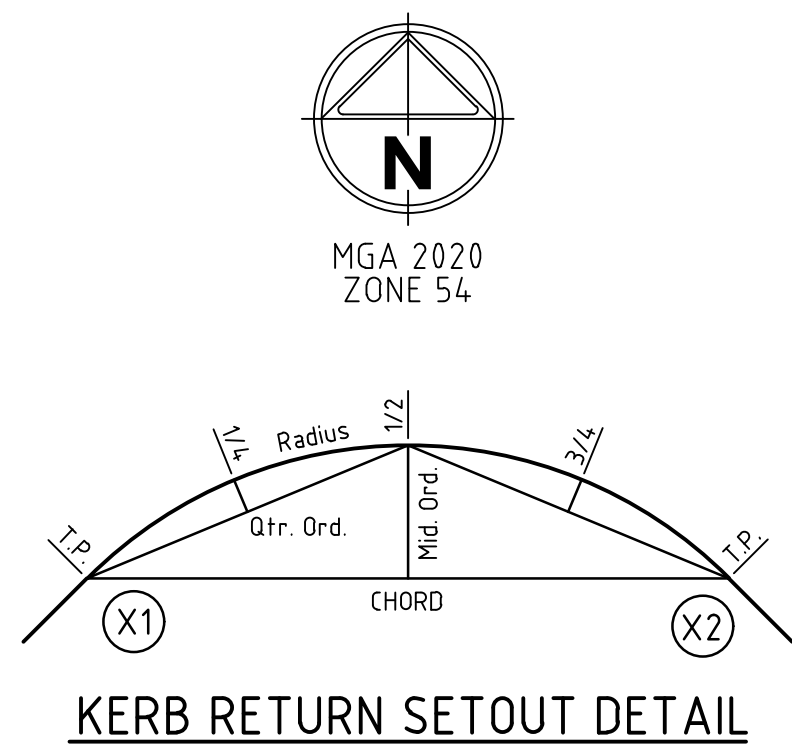
Designed S.WOOD	Checked B.IBBS
Authorised J.DOHERTY	Date

**CONROYS GREEN**  
**STAGE 5**  
**ROAD AND DRAINAGE**  
**ROAD CROSS SECTIONS - SHEET 5**  
 CITY OF BALLARAT  
 SAN HUBERTO PROPERTIES P/L  
**PRELIMINARY** Dwg No **309150CR404** Rev **A**

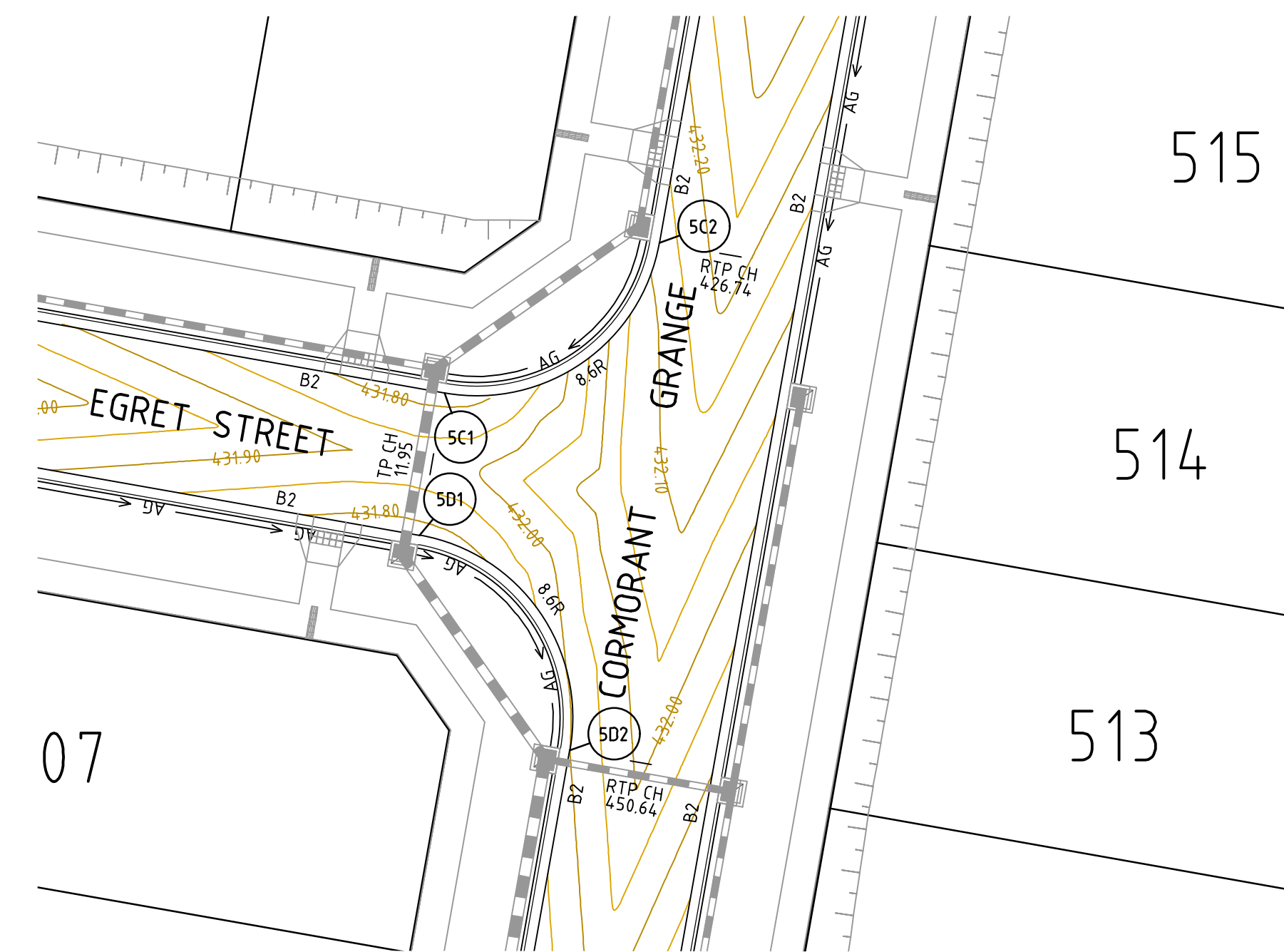




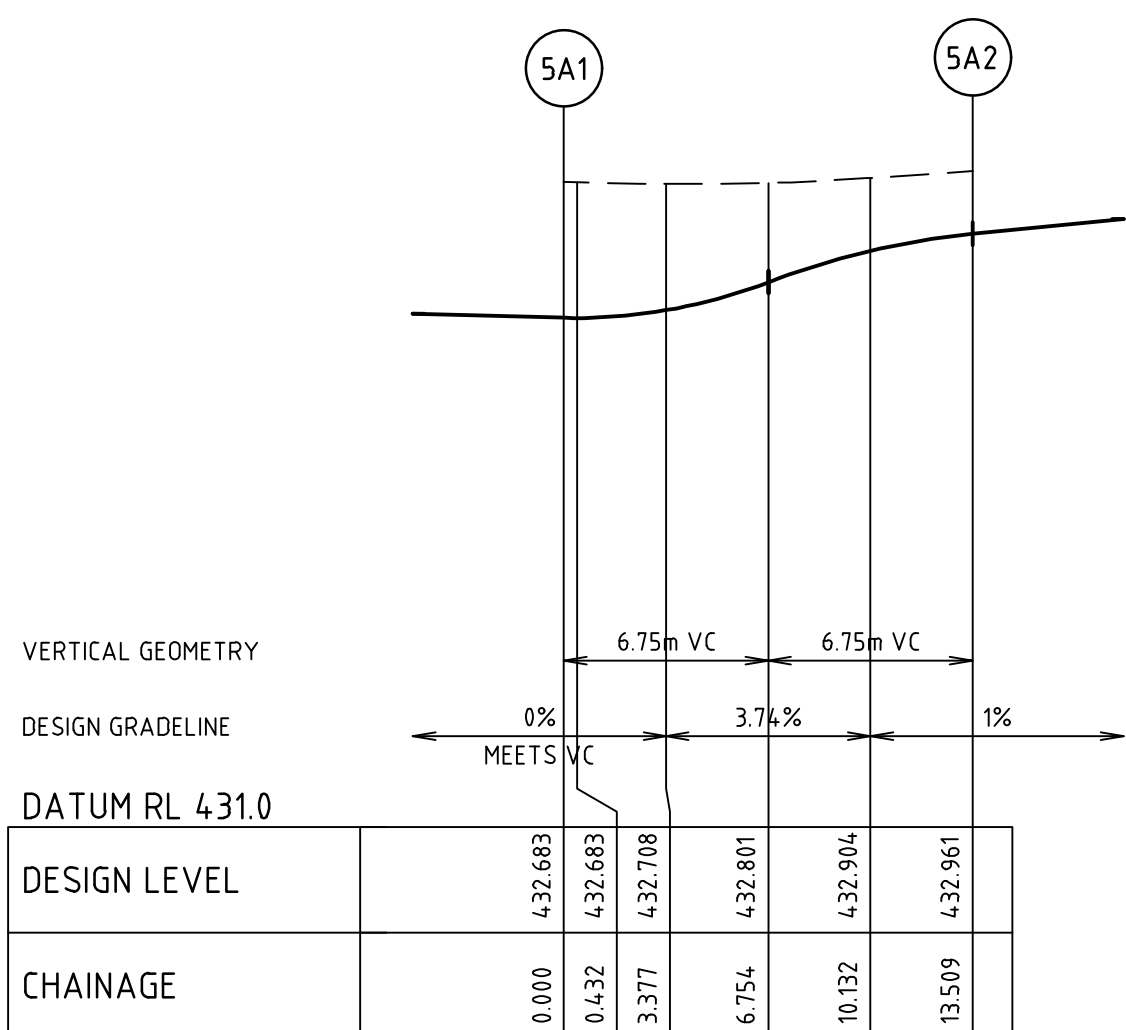
CORMORANT GRANGE AND MYRNA STREET  
KERB RETURN



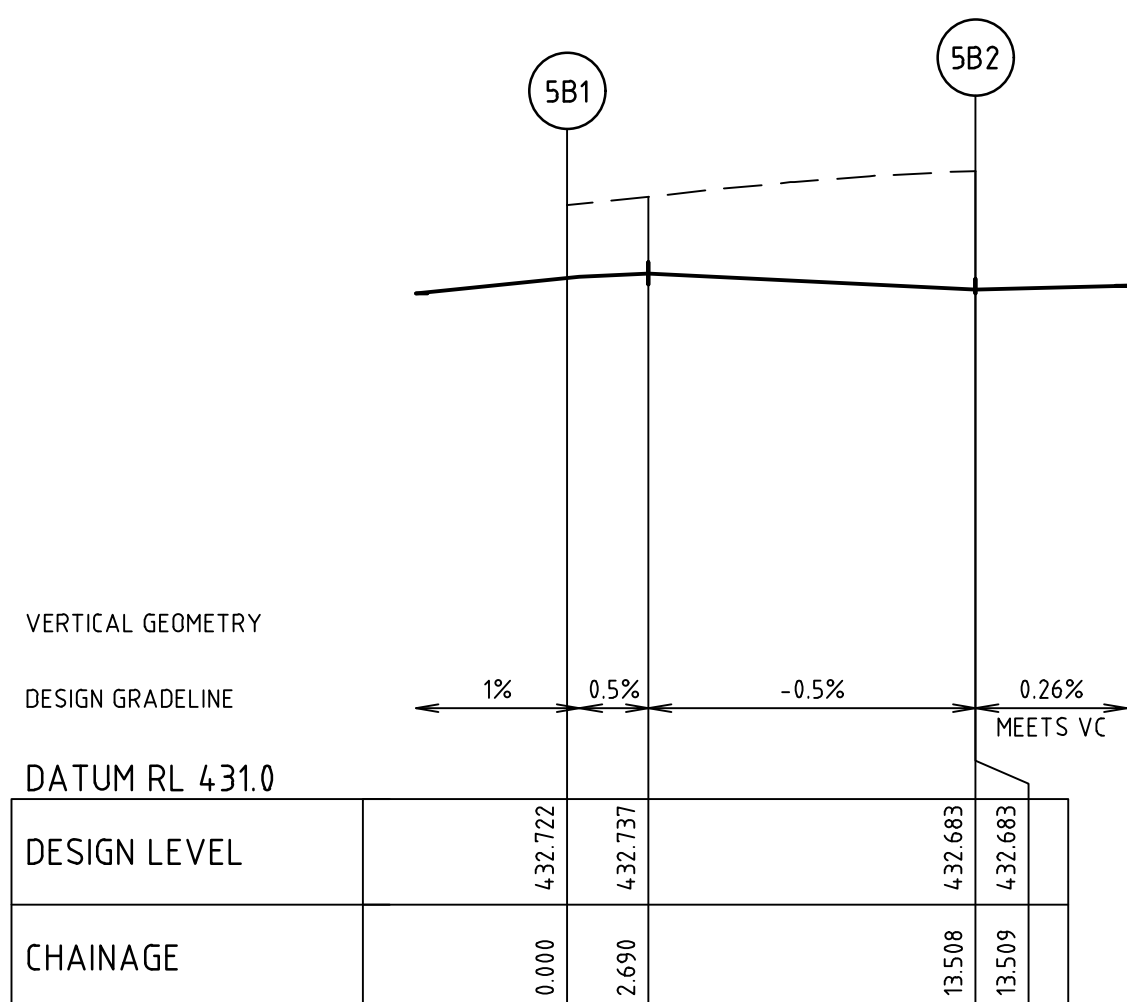
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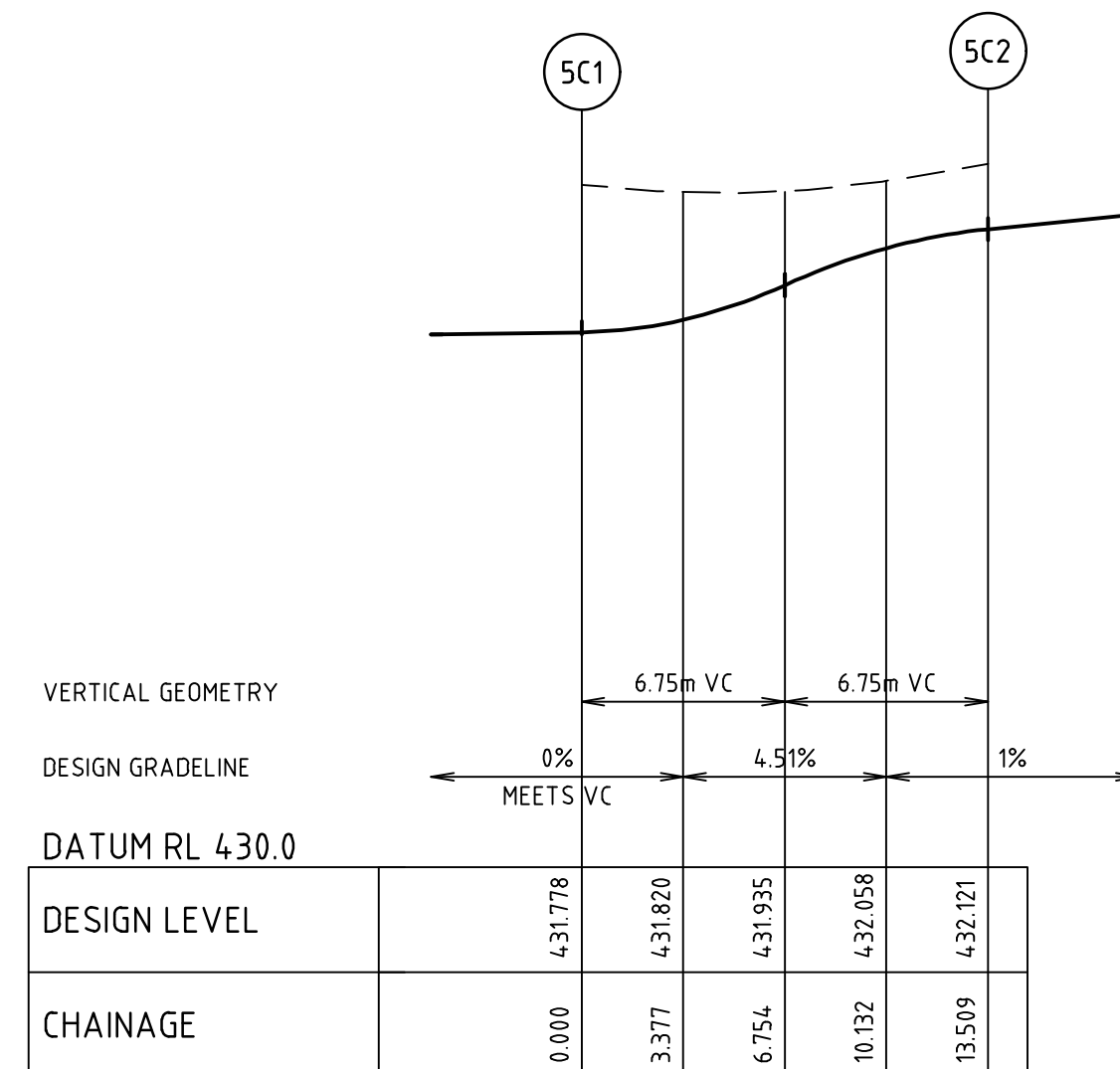
CORMORANT GRANGE AND EGRET STREET  
KERB RETURN



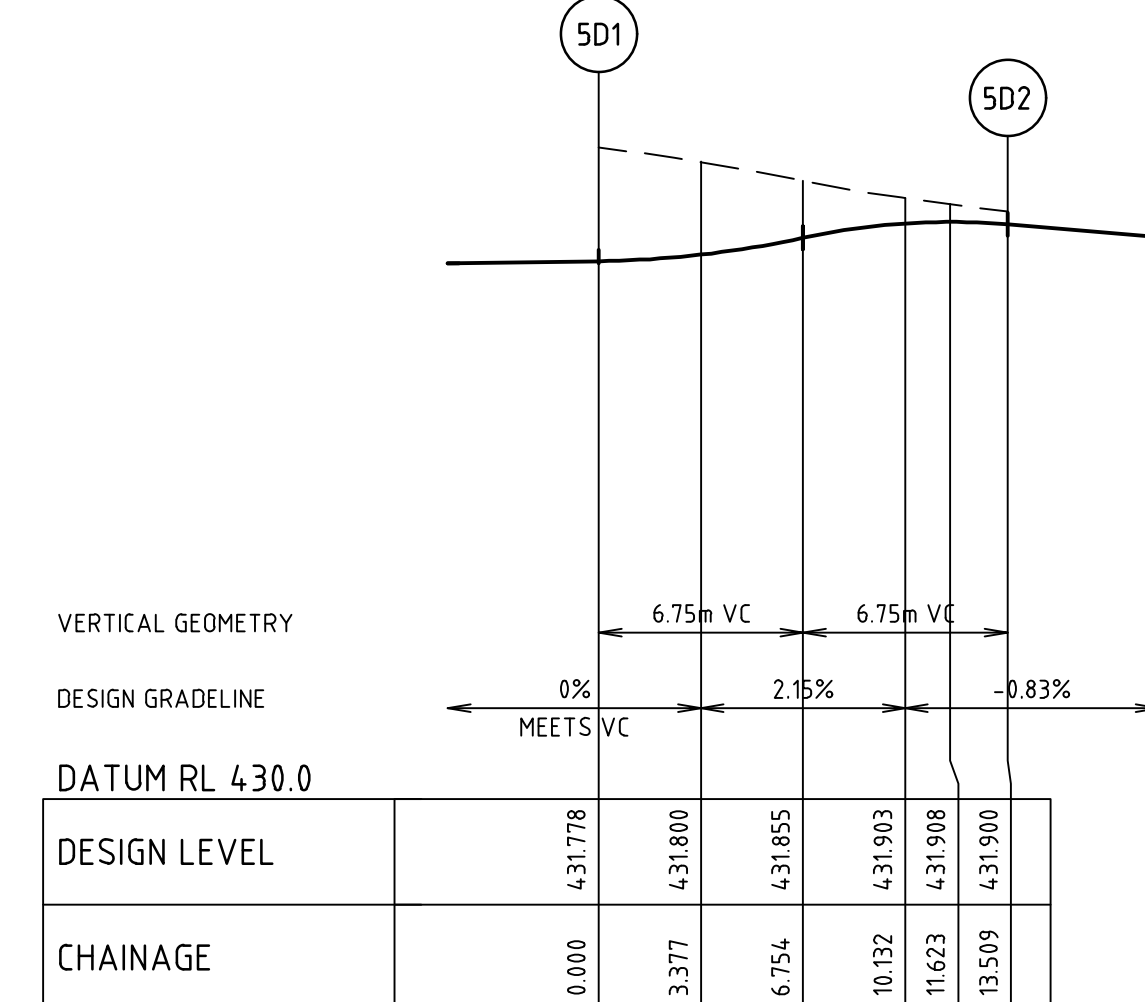
ALIGNMENT 5A



ALIGNMENT 5B



ALIGNMENT 5C



ALIGNMENT 5D

ALIGNMENT 5A

POINT NO	EASTING	NORTHING	RL	CHAINAGE
5A1	74584.9603	5837209.280	432.683	0.000
1/4	745852.958	5837209.352	432.708	3.377
1/2	745856.030	5837210.702	432.801	6.754
3/4	745858.351	5837213.125	432.904	10.132
5A2	745859.568	5837216.252	432.961	13.509

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
5A1-5A2	8.600	13.509	12.162	2.519	0.655

ALIGNMENT 5B

POINT NO	EASTING	NORTHING	RL	CHAINAGE
5B1	745855.409	5837192.717	432.722	0.000
1/4	745855.337	5837196.071	432.734	3.377
1/2	745853.987	5837199.143	432.717	6.754
3/4	745851.564	5837201.465	432.700	10.132
5B2	745848.437	5837202.682	432.683	13.509

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
5B1-5B2	8.600	13.509	12.162	2.519	0.655

ALIGNMENT 5C

POINT NO	EASTING	NORTHING	RL	CHAINAGE
5C1	745834.984	5837126.562	431.778	0.000
1/4	745838.339	5837126.633	431.820	3.377
1/2	745841.411	5837127.984	431.935	6.754
3/4	745843.732	5837130.407	432.058	10.132
5C2	745844.950	5837133.534	432.121	13.509

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
5C1-5C2	8.600	13.509	12.162	2.519	0.655

ALIGNMENT 5D

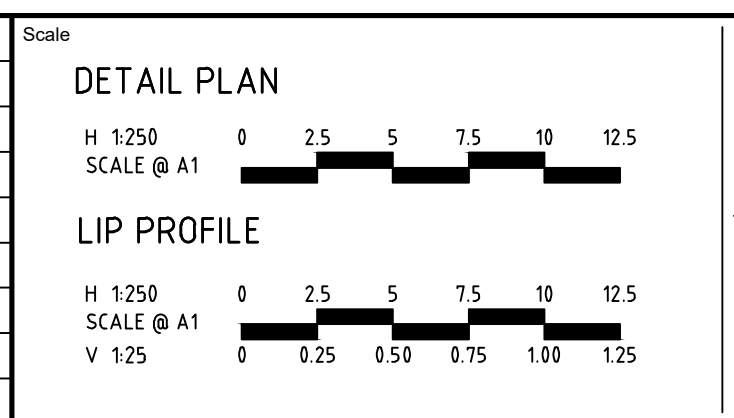
POINT NO	EASTING	NORTHING	RL	CHAINAGE
5D1	745833.818	5837119.964	431.778	0.000
1/4	745836.945	5837118.746	431.800	3.377
1/2	745839.368	5837116.425	431.855	6.754
3/4	745840.719	5837113.353	431.903	10.132
5D2	745840.719	5837109.998	431.900	13.509

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
5D1-5D2	8.600	13.509	12.162	2.519	0.655

APPROVED CITY OF BALLARAT  
By D. Hastings at 3:45 pm, Dec 22, 2021

file name: 309150CR500.dwg, layout name: CR500, plotted by: Ashley Willis, file location: G:\309150\309150.dwg, plot date: 07/07/2021 14:02:PM, sheet 12 of 17 sheets

Rev	Description	JD	Date
A	PRELIMINARY ISSUE	JD	14/09/21
	Amendments	Approved	Date



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spiire.com.au ABN 55 050 029 635

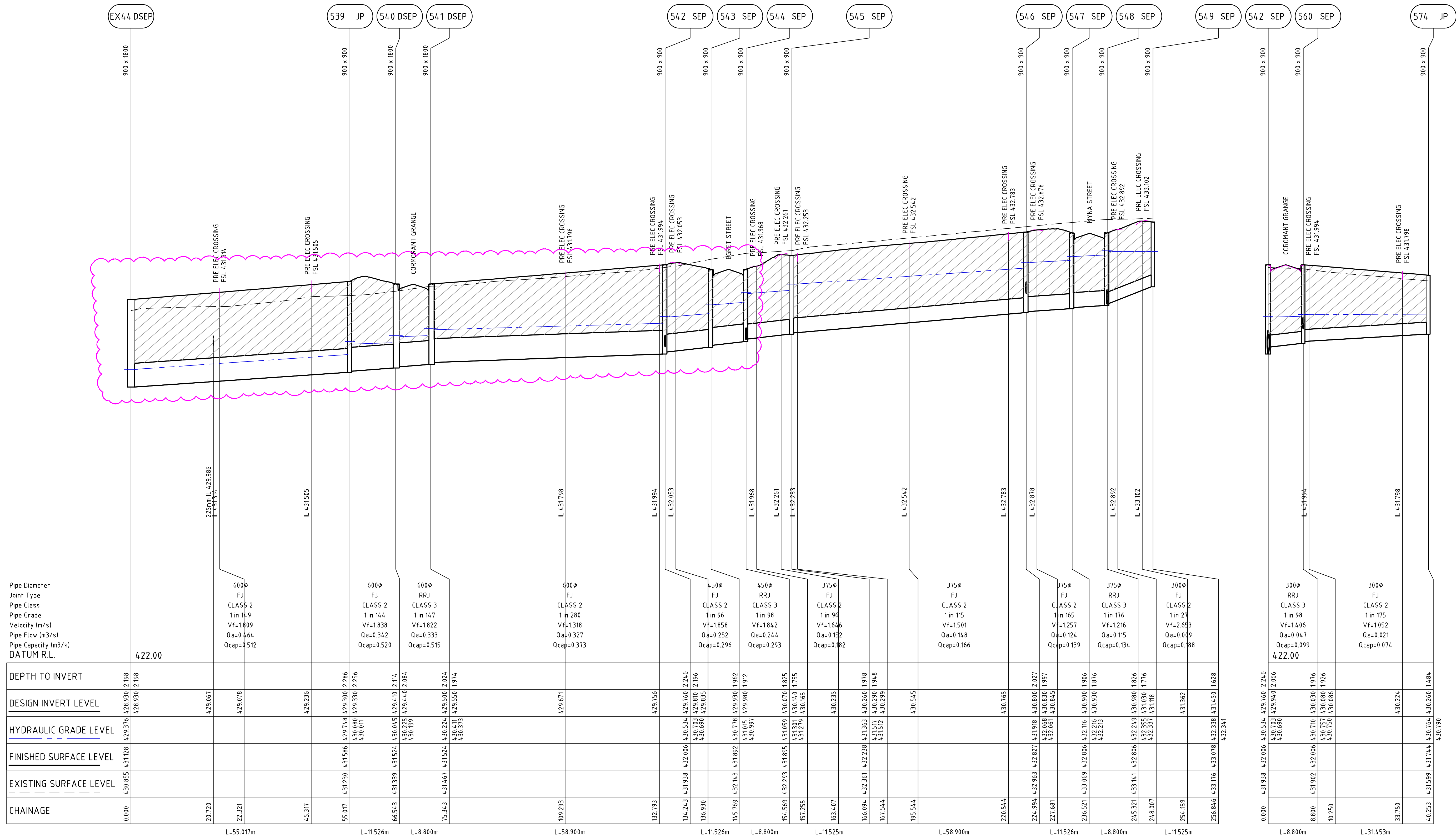
Designed S.WOOD	Checked B.IBBS
Authorised J.DOHERTY	Date

CONROY'S GREEN  
STAGE 5  
ROAD AND DRAINAGE  
INTERSECTION DETAILS - SHEET 1  
CITY OF BALLARAT  
SAN HUBERTO PROPERTIES P/L

PRELIMINARY 309150CR500

Rev A





Pipe Diameter	600ø	600ø	600ø	600ø	450ø	450ø	375ø	375ø	375ø	375ø	300ø	300ø	300ø
Joint Type	FJ	RRJ	RRJ	FJ	FJ	RRJ	FJ	FJ	RRJ	RRJ	FJ	RRJ	FJ
Pipe Class	CLASS 2	CLASS 2	CLASS 3	CLASS 2	CLASS 2	CLASS 3	CLASS 2	CLASS 2	CLASS 3	CLASS 3	CLASS 2	CLASS 3	CLASS 2
Pipe Grade	1 in 14.9	1 in 14.4	1 in 14.7	1 in 280	1 in 96	1 in 98	1 in 96	1 in 115	1 in 176	1 in 176	1 in 27	1 in 98	1 in 175
Velocity (m/s)	Vf=1.809	Vf=1.838	Vf=1.822	Vf=1.318	Vf=1.858	Vf=1.842	Vf=1.646	Vf=1.501	Vf=1.257	Vf=1.216	Vf=2.653	Vf=1.406	Vf=1.052
Pipe Flow (m <sup>3</sup> /s)	Qa=0.464	Qa=0.342	Qa=0.333	Qa=0.327	Qa=0.252	Qa=0.244	Qa=0.152	Qa=0.148	Qa=0.124	Qa=0.115	Qa=0.009	Qa=0.047	Qa=0.021
Pipe Capacity (m <sup>3</sup> /s)	Qcap=0.512	Qcap=0.520	Qcap=0.515	Qcap=0.373	Qcap=0.296	Qcap=0.293	Qcap=0.182	Qcap=0.166	Qcap=0.139	Qcap=0.134	Qcap=0.188	Qcap=0.099	Qcap=0.074
DATUM R.L.	422.00											422.00	

DEPTH TO INVERT																																		
DESIGN INVERT LEVEL	428.930	429.167	429.078	429.236	429.671	429.756	429.605	429.605	429.800	429.800	429.800	429.940	429.940																					
HYDRAULIC GRADE LEVEL	429.376	429.376	429.376	429.376	429.376	429.376	429.376	429.376	429.376	429.376	429.376	429.376	429.376																					
FINISHED SURFACE LEVEL	431.128	431.128	431.128	431.128	431.128	431.128	431.128	431.128	431.128	431.128	431.128	431.128	431.128																					
EXISTING SURFACE LEVEL	430.855	431.128	431.128	431.128	431.128	431.128	431.128	431.128	431.128	431.128	431.128	431.128	431.128																					
CHAINAGE	0.000	20.720	22.321	45.317	55.017	66.543	75.343	109.293	132.793	134.243	136.930	145.769	154.569	157.255	163.407	166.094	167.544	195.544	220.544	224.994	227.681	236.521	245.321	248.007	254.159	256.846	0.000	8.800	10.250	33.750	40.253			
		L=55.017m		L=11.526m	L=8.800m		L=58.900m		L=11.526m	L=8.800m	L=11.525m		L=58.900m		L=11.526m	L=8.800m	L=11.525m		L=8.800m		L=31.453m													

file name: 309150CR600.dwg, layout: cr600, name: CR600, plotted by: Ashley Willis, file location: G:\309150\309150.dwg, plot date: 10/12/2021 4:02 PM, Sheet 13 of 17 Sheets

Scale	H 1:500	SCALE @ A1	V 1:50	
Scale				
Rev	B	DRAINAGE AMENDED AS PER COUNCIL COMMENTS 25/11/21	A.W	01/12/21
Rev	A	PRELIMINARY ISSUE	JD	14/09/21
Rev		Amendments	Approved	Date

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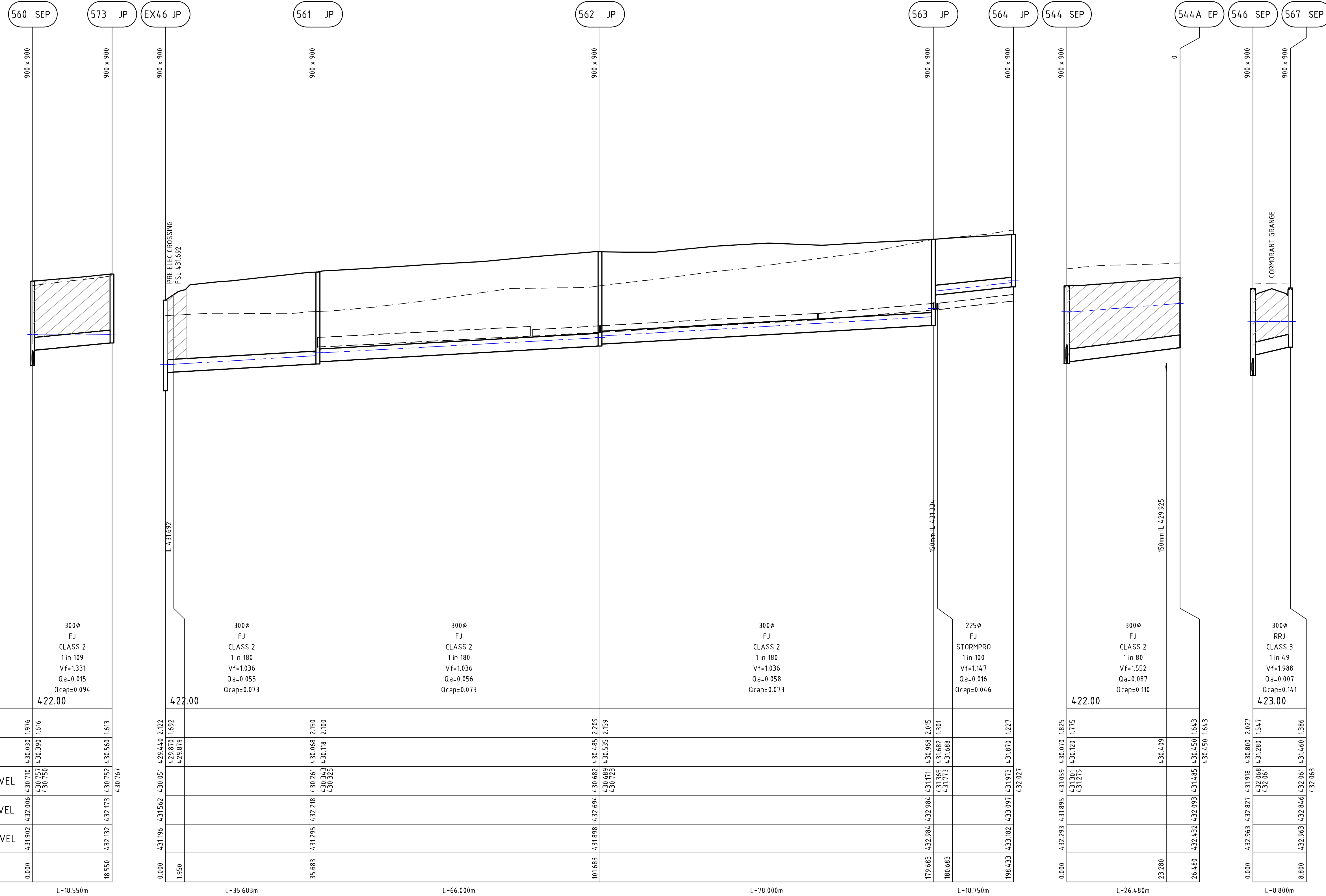
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Designed	S.WOOD	Checked	B.IBBS
Authorised	J.DOHERTY	Date	

**CONROYS GREEN**  
**STAGE 5**  
**ROAD AND DRAINAGE**  
**DRAINAGE LONG SECTIONS - SHEET 1**  
CITY OF BALLARAT  
SAN HUBERTO PROPERTIES P/L

**PRELIMINARY** Drg No **309150CR600** Rev **B**





Pipe Diameter	300φ
Joint Type	FJ
Pipe Class	CLASS 2
Pipe Grade	1 in 109
Velocity (m/s)	Vf=1.331
Pipe Flow (m <sup>3</sup> /s)	Qa=0.015
Pipe Capacity (m <sup>3</sup> /s)	Qcap=0.094
DATUM R.L.	422.00

Pipe Diameter	300φ
Joint Type	FJ
Pipe Class	CLASS 2
Pipe Grade	1 in 180
Velocity (m/s)	Vf=1.036
Pipe Flow (m <sup>3</sup> /s)	Qa=0.055
Pipe Capacity (m <sup>3</sup> /s)	Qcap=0.073
DATUM R.L.	422.00

Pipe Diameter	300φ
Joint Type	FJ
Pipe Class	CLASS 2
Pipe Grade	1 in 180
Velocity (m/s)	Vf=1.036
Pipe Flow (m <sup>3</sup> /s)	Qa=0.056
Pipe Capacity (m <sup>3</sup> /s)	Qcap=0.073
DATUM R.L.	422.00

Pipe Diameter	300φ
Joint Type	FJ
Pipe Class	CLASS 2
Pipe Grade	1 in 180
Velocity (m/s)	Vf=1.036
Pipe Flow (m <sup>3</sup> /s)	Qa=0.058
Pipe Capacity (m <sup>3</sup> /s)	Qcap=0.073
DATUM R.L.	422.00

Pipe Diameter	225φ
Joint Type	FJ
Pipe Class	STORMPRO
Pipe Grade	1 in 100
Velocity (m/s)	Vf=1.147
Pipe Flow (m <sup>3</sup> /s)	Qa=0.016
Pipe Capacity (m <sup>3</sup> /s)	Qcap=0.046
DATUM R.L.	422.00

Pipe Diameter	300φ
Joint Type	FJ
Pipe Class	CLASS 2
Pipe Grade	1 in 80
Velocity (m/s)	Vf=1.552
Pipe Flow (m <sup>3</sup> /s)	Qa=0.087
Pipe Capacity (m <sup>3</sup> /s)	Qcap=0.110
DATUM R.L.	422.00

Pipe Diameter	300φ
Joint Type	RRJ
Pipe Class	CLASS 3
Pipe Grade	1 in 4.9
Velocity (m/s)	Vf=1.988
Pipe Flow (m <sup>3</sup> /s)	Qa=0.007
Pipe Capacity (m <sup>3</sup> /s)	Qcap=0.141
DATUM R.L.	423.00

DEPTH TO INVERT	18.550
DESIGN INVERT LEVEL	4.30.150
HYDRAULIC GRADE LEVEL	4.30.150
FINISHED SURFACE LEVEL	4.31.902
EXISTING SURFACE LEVEL	4.32.132
CHAINAGE	0.000

DEPTH TO INVERT	1.950
DESIGN INVERT LEVEL	4.29.819
HYDRAULIC GRADE LEVEL	4.29.819
FINISHED SURFACE LEVEL	4.31.562
EXISTING SURFACE LEVEL	4.31.196
CHAINAGE	0.000

DEPTH TO INVERT	35.683
DESIGN INVERT LEVEL	4.30.343
HYDRAULIC GRADE LEVEL	4.30.343
FINISHED SURFACE LEVEL	4.32.218
EXISTING SURFACE LEVEL	4.31.295
CHAINAGE	35.683

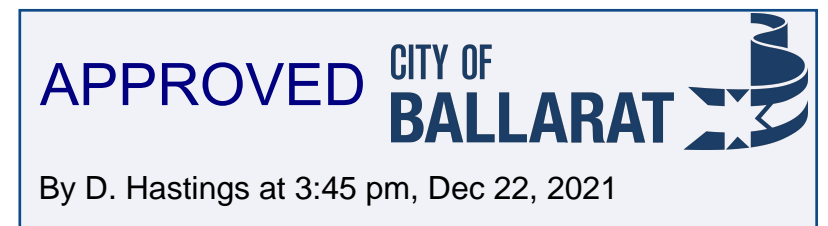
DEPTH TO INVERT	101.683
DESIGN INVERT LEVEL	4.30.682
HYDRAULIC GRADE LEVEL	4.30.682
FINISHED SURFACE LEVEL	4.32.694
EXISTING SURFACE LEVEL	4.31.898
CHAINAGE	101.683

DEPTH TO INVERT	179.683
DESIGN INVERT LEVEL	4.31.715
HYDRAULIC GRADE LEVEL	4.31.715
FINISHED SURFACE LEVEL	4.32.984
EXISTING SURFACE LEVEL	4.32.984
CHAINAGE	179.683

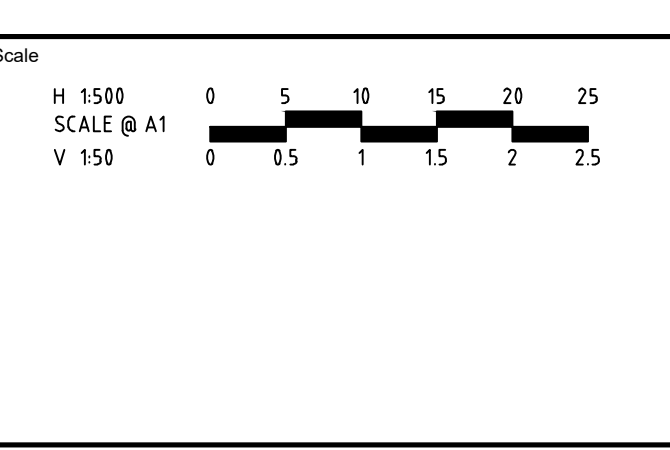
DEPTH TO INVERT	198.433
DESIGN INVERT LEVEL	4.31.688
HYDRAULIC GRADE LEVEL	4.31.688
FINISHED SURFACE LEVEL	4.33.097
EXISTING SURFACE LEVEL	4.33.182
CHAINAGE	198.433

DEPTH TO INVERT	23.280
DESIGN INVERT LEVEL	4.30.409
HYDRAULIC GRADE LEVEL	4.30.409
FINISHED SURFACE LEVEL	4.31.059
EXISTING SURFACE LEVEL	4.32.293
CHAINAGE	23.280

DEPTH TO INVERT	26.480
DESIGN INVERT LEVEL	4.30.164
HYDRAULIC GRADE LEVEL	4.30.164
FINISHED SURFACE LEVEL	4.32.627
EXISTING SURFACE LEVEL	4.32.963
CHAINAGE	26.480



Scale	H 1500	SCALE @ A1	V 150
Scale	0 5 10 15 20 25	0 0.5 1 1.5 2 2.5	
Rev	B	DRAINAGE AMENDED AS PER COUNCIL COMMENTS 25/11/21	A.W 01/12/21
Rev	A	PRELIMINARY ISSUE	JD 21/09/21
Rev		Amendments	Approved Date



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Designed  
**S.WOOD**  
 Authorised  
**J.DOHERTY**

Checked  
**B.IBBS**  
 Date

**CONROYS GREEN  
 STAGE 5  
 ROAD AND DRAINAGE  
 DRAINAGE LONG SECTIONS - SHEET 2  
 CITY OF BALLARAT  
 SAN HUBERTO PROPERTIES P/L**

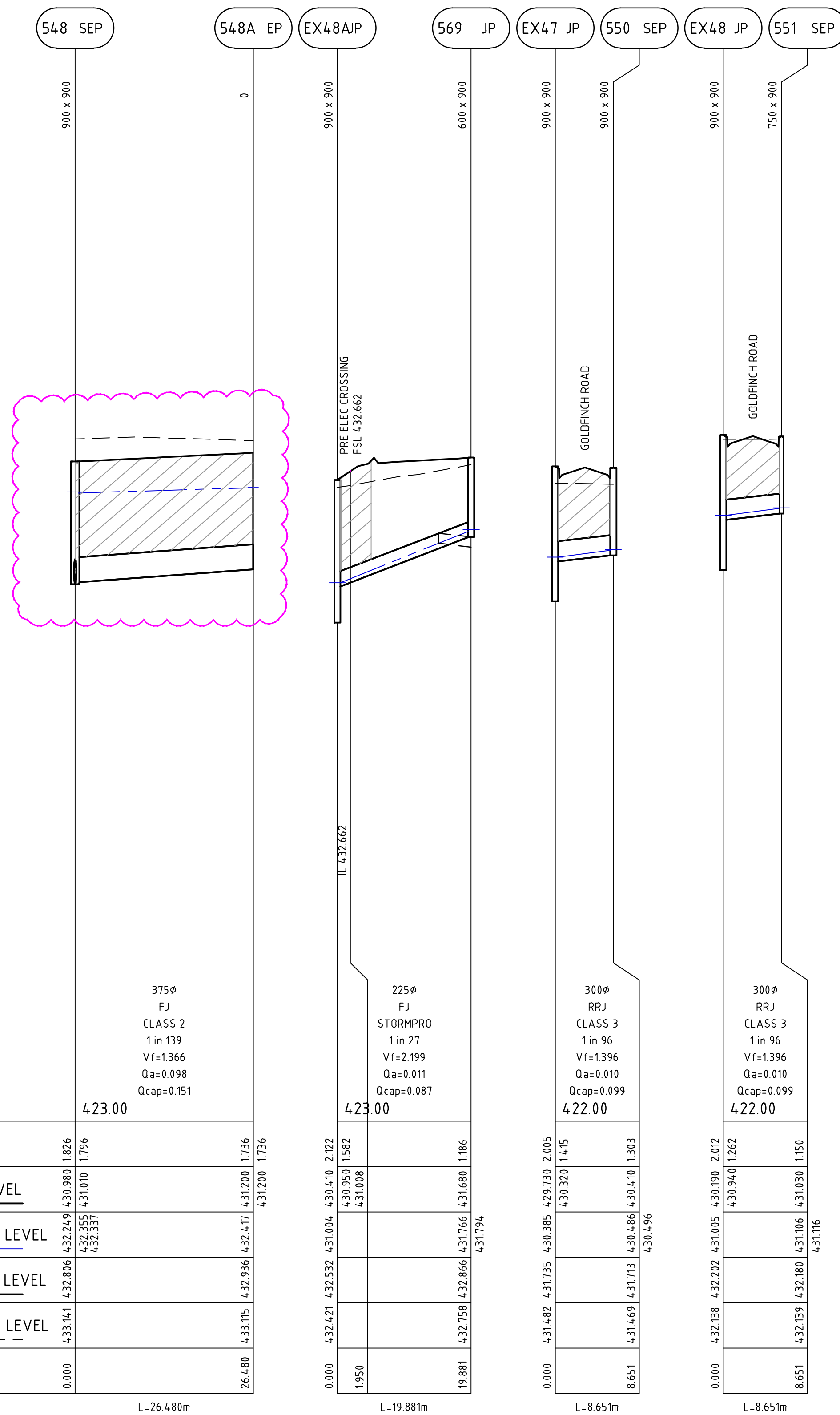
**PRELIMINARY** Drg No **309150CR601** Rev **B**

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PIT SCHEDULE

Pit Name	TYPE	EASTING	NORTHING	INTERNAL WD	INLET DIA	INLET INV LEV	OUTLET DIA	OUTLET INV LEV	PIT SETOUT RL	DEPTH	REMARKS	STEP	LADDER
539	JUNCTION PIT	745844.675	5837040.614	0.9	0.9	600	429.33	600	429.3	431.586	2.286	REFER TO COB SD-P10-2	X
540	DOUBLE SIDE ENTRY PIT	745838.067	5837050.058	0.9	1.8	600	429.44	600	429.41	431.524	2.114	REFER TO COB SD-P2-2	X
541	DOUBLE SIDE ENTRY PIT	745829.402	5837051.589	0.9	1.8	600	429.55	600	429.5	431.524	2.024	REFER TO COB SD-P2-2	X
542	SIDE ENTRY PIT	745839.652	5837109.59	0.9	0.9	450	429.81	600	429.76	432.006	2.246	REFER TO COB SD-P1-2	X
543	SIDE ENTRY PIT	745833.045	5837119.035	0.9	0.9	450	429.98	450	429.93	431.892	1.962	REFER TO COB SD-P1-2	X
544	SIDE ENTRY PIT	745834.577	5837127.7	0.9	0.9	375	430.14	450	430.07	431.895	1.825	REFER TO COB SD-P1-2	X
545	SIDE ENTRY PIT	745844.02	5837134.307	0.9	0.9	375	430.29	375	430.26	432.238	1.978	REFER TO COB SD-P1-2	X
546	SIDE ENTRY PIT	745854.271	5837192.308	0.9	0.9	375	430.83	375	430.8	432.827	2.027	REFER TO COB SD-P1-2	X
547	SIDE ENTRY PIT	745847.663	5837201.753	0.9	0.9	375	430.93	375	430.9	432.806	1.906	REFER TO COB SD-P1-2	X
548	SIDE ENTRY PIT	745849.195	5837210.418	0.9	0.9	300	431.03	375	430.98	432.806	1.826	REFER TO COB SD-P1-2	X
549	SIDE ENTRY PIT	745858.639	5837217.025	0.9	0.9			300	431.45	433.078	1.628	REFER TO COB SD-P1-2	X
550	SIDE ENTRY PIT	745924.557	5837080.367	0.9	0.9			300	430.41	431.713	1.303	REFER TO COB SD-P1-2	X
551	SIDE ENTRY PIT	745936.72	5837149.299	0.75	0.9			300	431.03	432.18	1.15		
560	SIDE ENTRY PIT	745848.318	5837108.059	0.9	0.9	300	430.08	300	430.03	432.006	1.976		X
561	JUNCTION PIT	745876.683	5837064	0.9	0.9	300	430.118	300	430.068	432.218	2.15	REFER TO COB SD-P10-2	X
562	JUNCTION PIT	745888.169	5837128.993	0.9	0.9	300	430.535	300	430.485	432.694	2.209	REFER TO COB SD-P10-2	X
563	JUNCTION PIT	745901.744	5837205.803	0.9	0.9	225	431.682	300	430.968	432.984	2.015	REFER TO COB SD-P10-2	X
564	JUNCTION PIT	745883.28	5837209.066	0.6	0.9			225	431.87	433.097	1.227	REFER TO COB SD-P10-2	X
567	SIDE ENTRY PIT	745862.936	5837190.777	0.9	0.9			300	431.46	432.846	1.386	REFER TO COB SD-P1-2	X
569	JUNCTION PIT	745917.278	5837203.094	0.6	0.9			225	431.68	432.866	1.186	REFER TO COB SD-P10-2	X
573	JUNCTION PIT	745851.546	5837126.325	0.9	0.9			300	430.56	432.173	1.613	REFER TO COB SD-P10-2	X
574	JUNCTION PIT	745842.844	5837077.086	0.9	0.9			300	430.26	431.744	1.484	REFER TO COB SD-P10-2	X
544A	ENDPIPE	745808.5	5837132.309	0	0	300	430.45	300	430.45	432.093	1.643	ENDPIPE TO BE COVERED WITH MARINE GRADE PLY	
548A	ENDPIPE	745823.119	5837215.027	0	0	375	431.2	375	431.2	432.936	1.736	ENDPIPE TO BE COVERED WITH MARINE GRADE PLY	
Ex44	DOUBLE SIDE ENTRY PIT	745898.852	5837031.039	0.9	1.8	600	428.93			431.128	2.198		
Ex46	JUNCTION PIT	745911.821	5837057.79	0.9	0.9	300	429.87			431.562	1.692		
Ex47	JUNCTION PIT	745916.035	5837081.859	0.9	0.9	300	430.32			431.735	2.005		
Ex48	JUNCTION PIT	745928.199	5837150.79	0.9	0.9	300	430.94			432.202	2.012		
Ex48A	JUNCTION PIT	745936.849	5837199.599	0.9	0.9	225	430.95			432.532	2.122		



Pipe Diameter 375Ø  
 Joint Type FJ  
 Pipe Class CLASS 2  
 Pipe Grade 1 in 139  
 Velocity (m/s) Vf=1.366  
 Pipe Flow (m³/s) Qa=0.098  
 Pipe Capacity (m³/s) Qcap=0.151  
 DATUM R.L. 423.00

DEPTH TO INVERT	430.980	1.826
DESIGN INVERT LEVEL	431.200	1.736
HYDRAULIC GRADE LEVEL	432.249	430.980
FINISHED SURFACE LEVEL	432.351	431.010
EXISTING SURFACE LEVEL	432.806	432.417
CHAINAGE	0.000	26.480

L=26.480m

Pipe Diameter 225Ø  
 Joint Type FJ  
 Pipe Class CLASS 2  
 Pipe Grade 1 in 27  
 Velocity (m/s) Vf=2.199  
 Pipe Flow (m³/s) Qa=0.011  
 Pipe Capacity (m³/s) Qcap=0.087  
 DATUM R.L. 423.00

DEPTH TO INVERT	430.410	2.122
DESIGN INVERT LEVEL	431.008	1.582
HYDRAULIC GRADE LEVEL	432.249	431.008
FINISHED SURFACE LEVEL	432.351	431.010
EXISTING SURFACE LEVEL	432.806	431.766
CHAINAGE	0.000	19.881

L=19.881m

Pipe Diameter 300Ø  
 Joint Type RRJ  
 Pipe Class CLASS 3  
 Pipe Grade 1 in 96  
 Velocity (m/s) Vf=1.396  
 Pipe Flow (m³/s) Qa=0.010  
 Pipe Capacity (m³/s) Qcap=0.099  
 DATUM R.L. 422.00

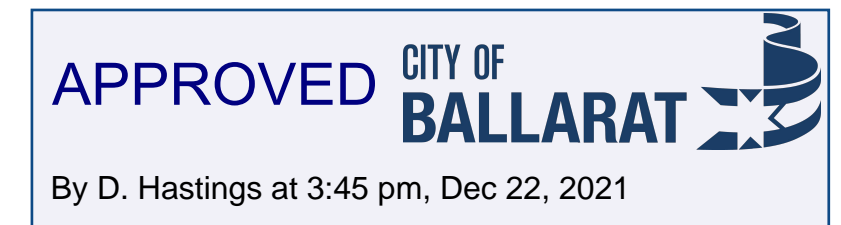
DEPTH TO INVERT	430.730	2.005
DESIGN INVERT LEVEL	430.320	1.415
HYDRAULIC GRADE LEVEL	430.385	430.410
FINISHED SURFACE LEVEL	431.713	430.486
EXISTING SURFACE LEVEL	431.469	430.496
CHAINAGE	0.000	8.651

L=8.651m

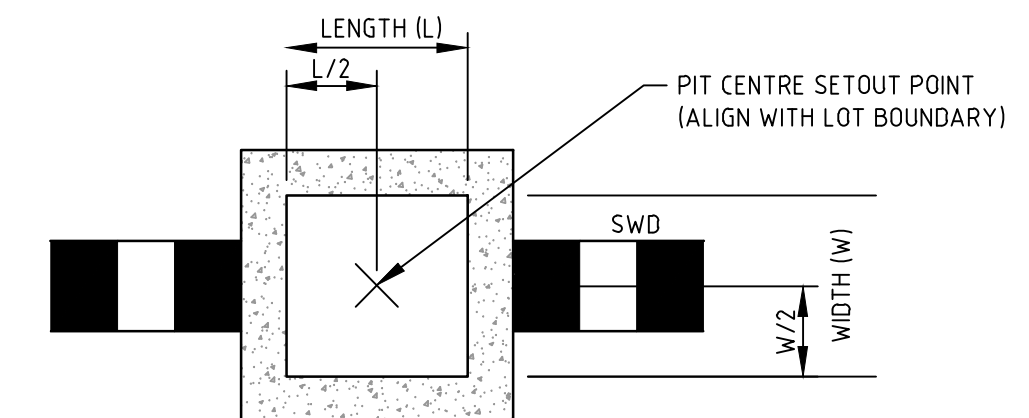
Pipe Diameter 300Ø  
 Joint Type RRJ  
 Pipe Class CLASS 3  
 Pipe Grade 1 in 96  
 Velocity (m/s) Vf=1.396  
 Pipe Flow (m³/s) Qa=0.010  
 Pipe Capacity (m³/s) Qcap=0.099  
 DATUM R.L. 422.00

DEPTH TO INVERT	430.190	2.012
DESIGN INVERT LEVEL	430.940	1.262
HYDRAULIC GRADE LEVEL	431.005	431.030
FINISHED SURFACE LEVEL	432.202	431.116
EXISTING SURFACE LEVEL	432.138	432.180
CHAINAGE	0.000	8.651

L=8.651m



By D. Hastings at 3:45 pm, Dec 22, 2021



TYPICAL DRAINAGE PIT SETOUT POINT 'C'  
 JUNCTION PIT / EASEMENT PIT  
 NOT TO SCALE

file name: 309150CR602.dwg, layout: c:\p602, created by: Ashley Willis, date: 10/12/2021, 14:02 PM, sheet 15 of 17 sheets

Rev	Amendments	Approved	Date
B	DRAINAGE AMENDED AS PER COUNCIL COMMENTS 25/11/21	A.W	01/12/21
A	PRELIMINARY ISSUE	JD	21/09/21

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Designed	S.WOOD	Checked	B.IBBS
Authorised	J.DOHERTY	Date	

**CONROY'S GREEN**  
**STAGE 5**  
**ROAD AND DRAINAGE**  
**DRAINAGE LONG SECTIONS - SHEET 3**  
 CITY OF BALLARAT  
 SAN HUBERTO PROPERTIES P/L

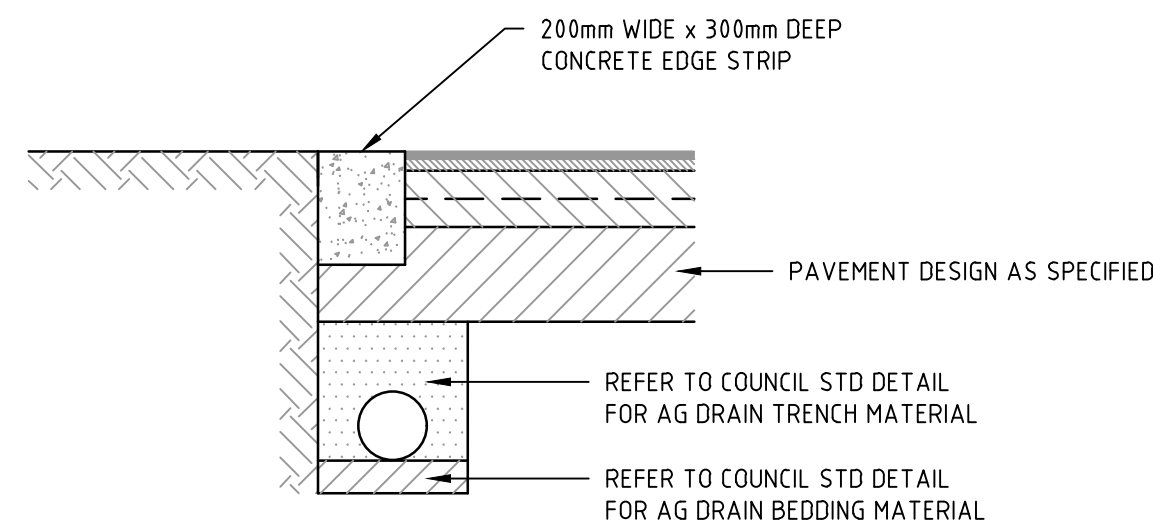
**PRELIMINARY** Dwg No **309150CR602** Rev **B**



## DESIGN PAVEMENT PROFILE

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		TYPE A* (ACCESS STREET 1)
ASPHALT WEARING COURSE (mm)	SIZE 10mm TYPE N ASPHALT CLASS 320 BITUMEN	40
SAMI LAYER		YES
PRIMER COURSE	PRIME OR 7mm PRIMERSEAL	YES
BASE COURSE (mm)	CLASS 1 or 2 20mm FCR, COMPACTED TO 98% (MMDD)	150
SUBBASE COURSE (mm)	CLASS 3 20mm or 40mm FCR, COMPACTED TO 97% (MMDD)	220
CAPPING LAYER (mm)	IMPORTED PRODUCT WITH A MINIMUM CBR OF 10, SWELL NO GREATER THAN 15%, PERMEABILITY NO GREATER THAN 5x10 <sup>-9</sup> M/S AND BE COMPACTED TO A MINIMUM DENSITY RATIO OF 98% STANDARD.	150
TOTAL PAVEMENT DEPTH		560

ROAD NAME	TYPE
BOWERBIRD GRANGE	A
STORK STREET	A
CORMORANT	A
GOLDFINCH ROAD	A

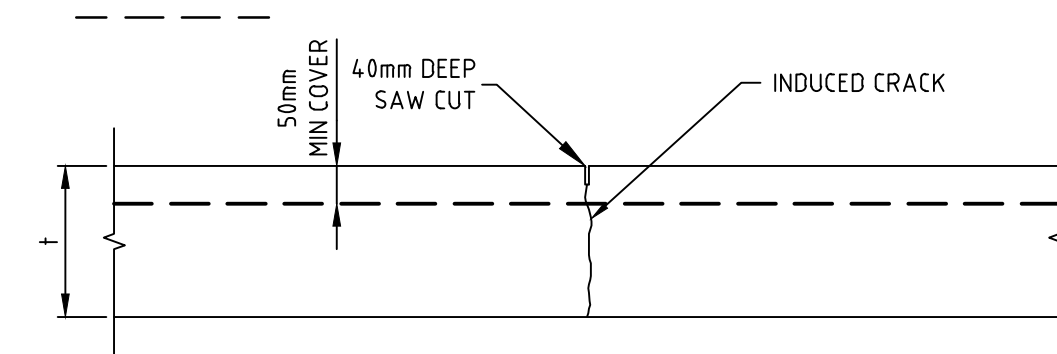


## GENERAL NOTES:

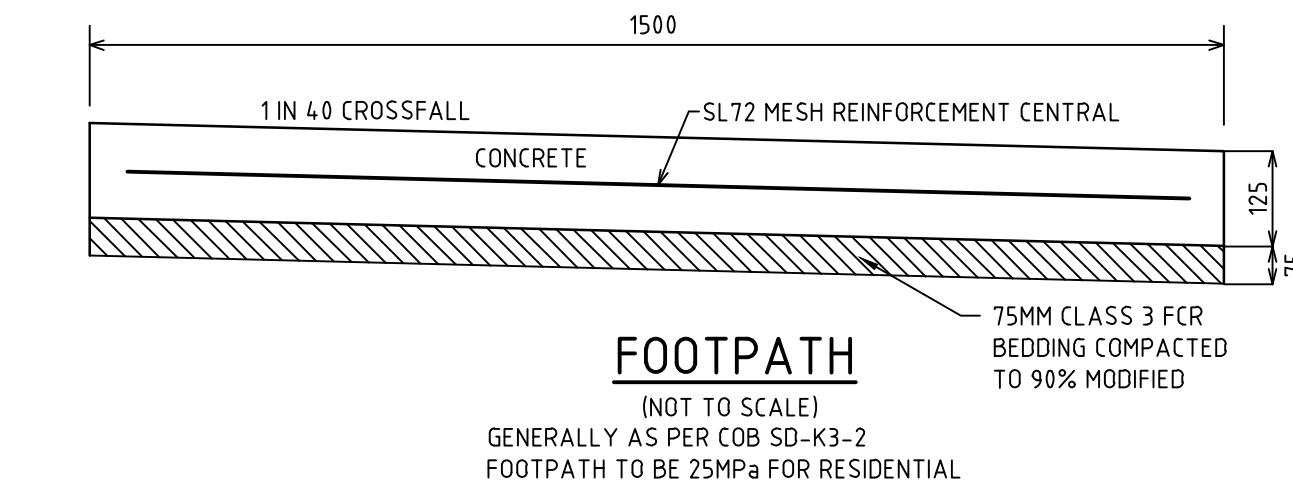
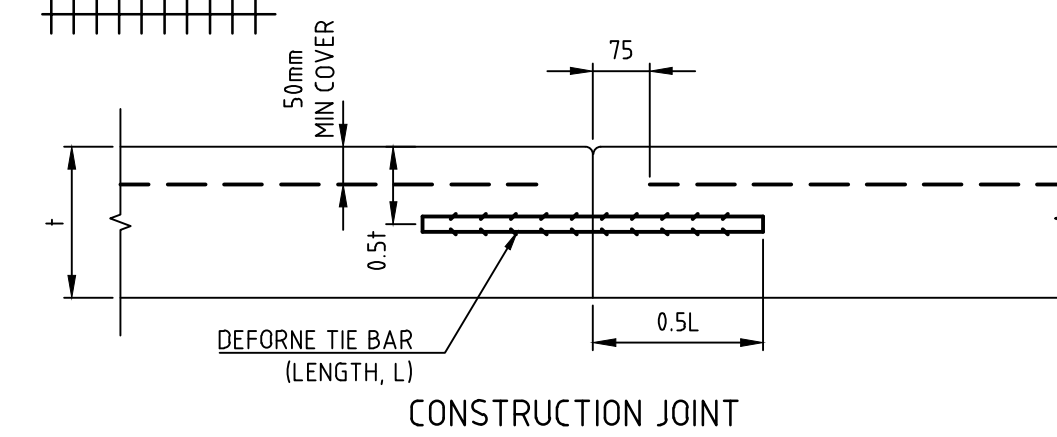
- ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE, OR VIC ROADS STANDARDS FOR NON RESIDENTIAL STREETS.
- ALL CONCRETE TO BE MINIMUM 32MPa COMPRESSIVE STRENGTH
- CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY 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.

## LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE DETAIL

## SAW CUT



## CONSTRUCTION JOINT



## 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 GEOTECHNICAL TESTING SERVICES REPORT ON "520 GREENHALGHS RD, WINTER VALLEY" THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.

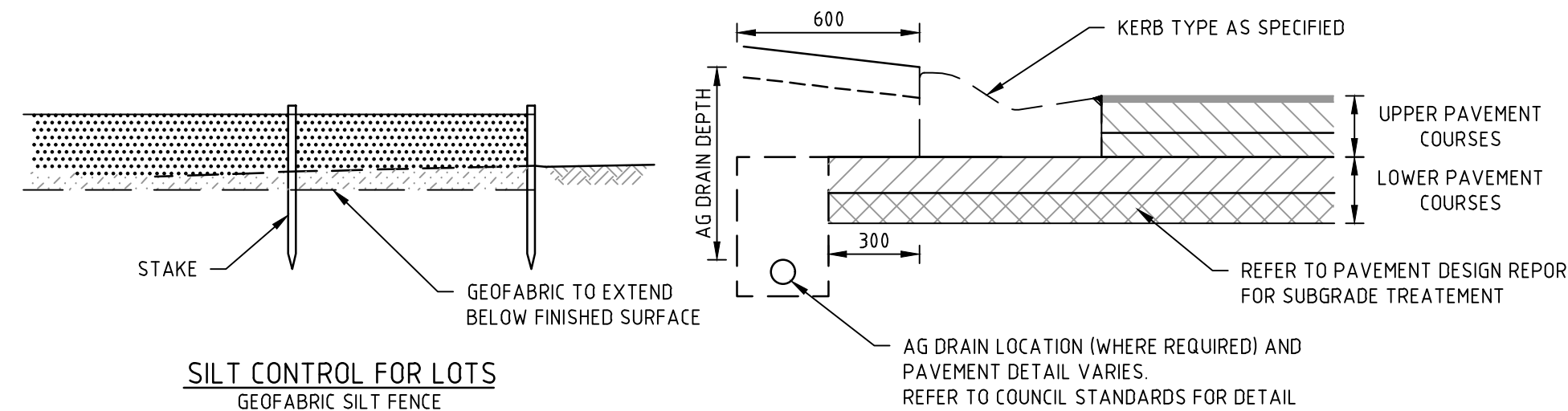
A COPY OF THE DOCUMENT WILL BE PROVIDED TO YOU ON REQUEST.

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 GEOTECHNICAL TESTING SERVICES AND SENT TO SPIIRE.



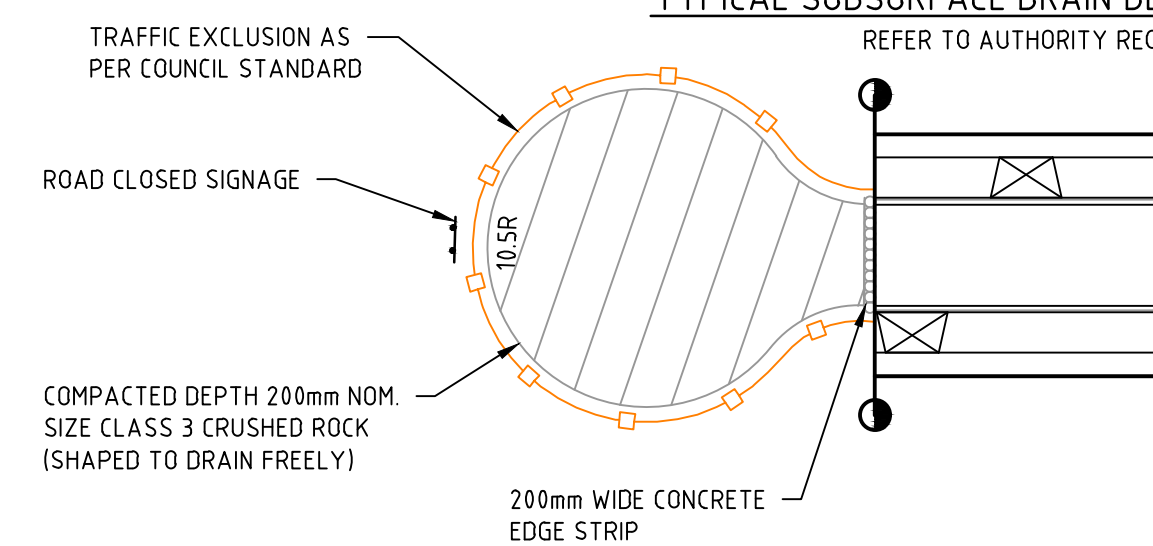
## PAVEMENT PLAN

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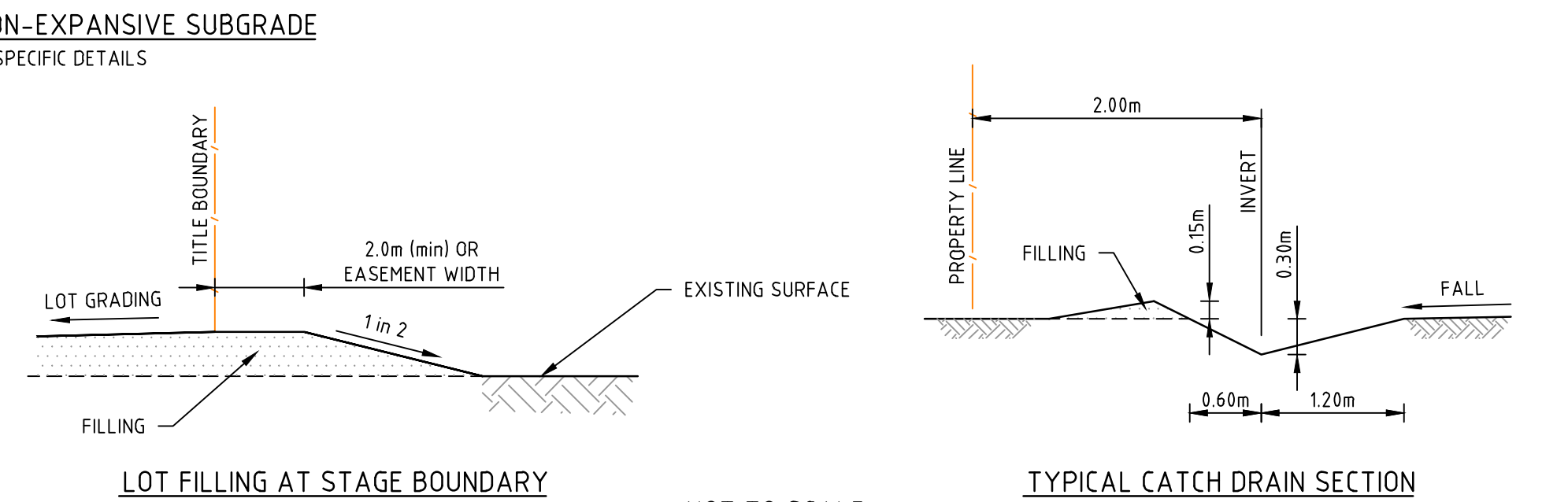
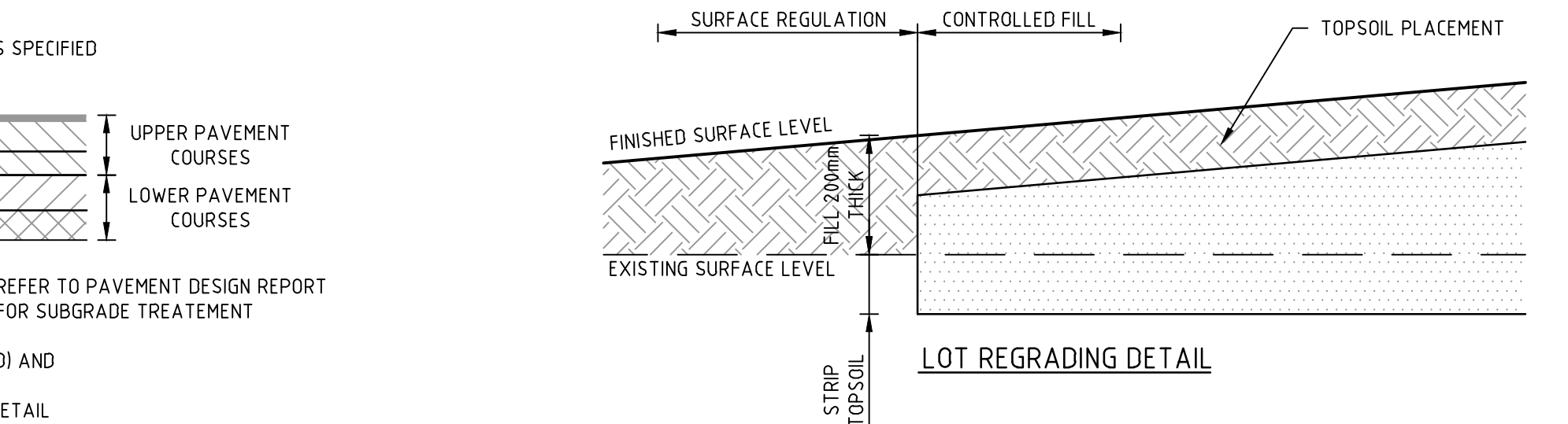
## SILT CONTROL FOR LOTS

GEOFABRIC SILT FENCE



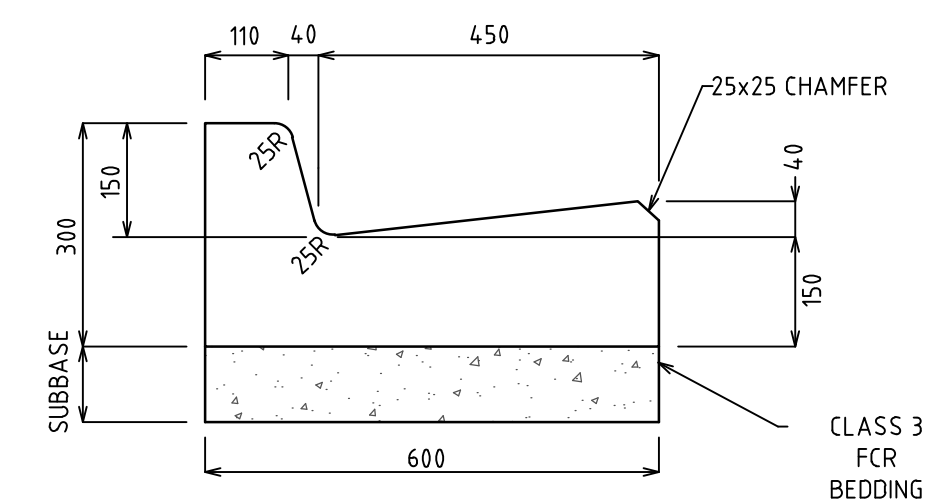
## TEMPORARY TURNING AREA DETAIL

NOT TO SCALE



## LOT FILLING AT STAGE BOUNDARY

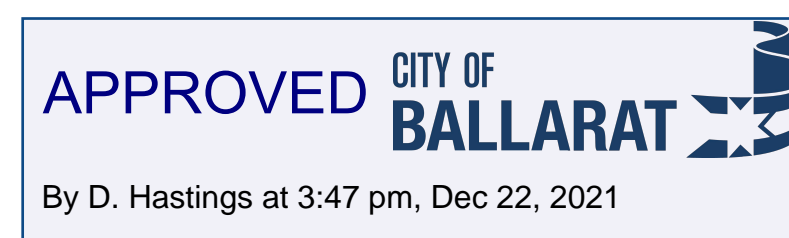
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## B2 - STANDARD KERB & CHANNEL

## STANDARD KERB PROFILES

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Designed  
S.WOOD  
Authorised  
J.DOHERTY

Checked  
B.IBBS  
Date

**CONROY'S GREEN**  
**STAGE 5**  
**ROAD AND DRAINAGE**  
**PAVEMENT AND TYPICAL DETAILS - SHEET 1**  
CITY OF BALLARAT  
SAN HUBERTO PROPERTIES P/L

**PRELIMINARY** Drg No **309150CR700** Rev **A**



