

CONROY'S GREEN STAGE 9 SAN HUBERTO PROPERTIES P/L

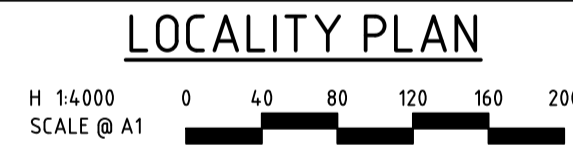
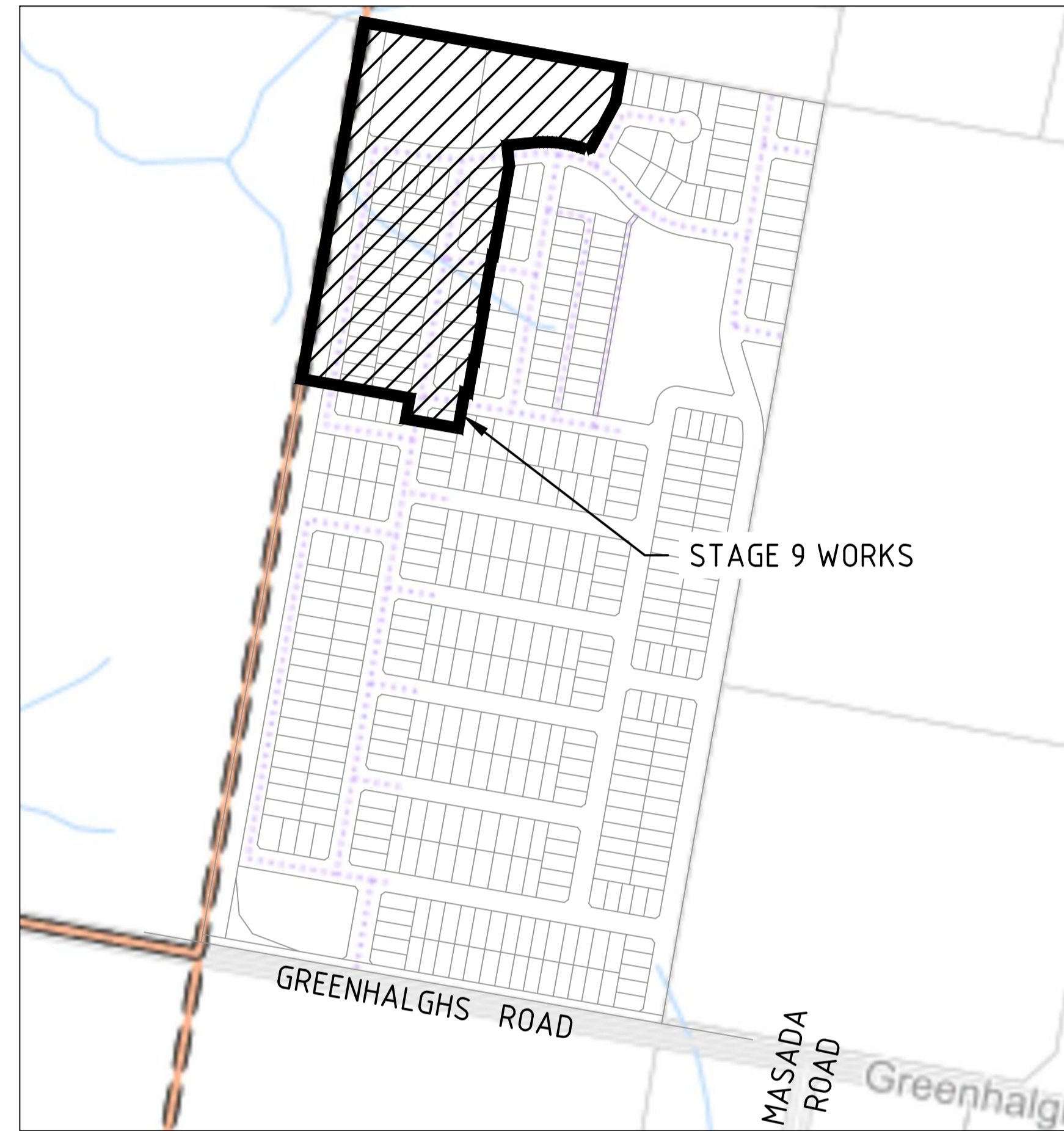
GENERAL NOTES:

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 MINE'S ACT, 1959 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.
- ALL SET OUT INFORMATION GIVEN IS TO BACK OF KERB 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.



LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATER MAIN, VALVE AND HYDRANT	DW	Dw
UNDERGROUND ELECTRICITY	E	E
TELECOMMUNICATIONS & SERVICE PIT	T	T
OPTIC FIBRE	OF	OF
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	SWD	SWD
STORM WATER DRAINAGE PROPERTY INLETS	SWI	SWI
COUNCIL STORM WATER PITS	SWP	SWP
HOUSE DRAIN	H	H
AG DRAIN AND FLUSHER	AG	AG
STORM WATER DRAINAGE PIT NUMBER	Ex 4.7	1
GAS & WATER CONDUITS	GW	GW
CONCRETE VEHICLE CROSSING	CV	CV
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
RETAINING WALL LEVEL (TOP/BOTTOM)	TW112.76	TW128.50 BW126.74
EARTHWORKS GRADE		1 in 150
SIGN AND POST	S	S
LIGHT & POLE (BY OTHERS)	L	L
STREET SIGN	SS	SS
PERMANENT SURVEY MARK	PSM	PSM
TEMPORARY BENCH MARK	TBM	TBM
BOLLARD	B	B
ROAD CHAINAGES	CH116.57 (L/R)ITP CH116.57	CH116.57 (L/R)ITP CH116.57
LOT CHAINAGES	CH20.06	CH20.06
SETOUT POINT		A2
LIMIT OF WORKS		
BATTER		
EXCAVATION GREATER THAN 0.20m		
FILLING GREATER THAN 0.20m		
ROCK BEACHING		
FENCE - TREE PROTECTION		
FENCE - VEHICLE EXCLUSION		
FENCES		
GUARD RAIL		
TREE TO BE PROTECTED		
TREE TO BE REMOVED		
VEGETATION LINE		
FOOTPATH		
TACTILE GROUND SURFACE INDICATOR		
KERB TRANSITION		B2 SM2

DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
CR100	GENERAL NOTES - SHEET 1	1	A
CR200	ROAD LAYOUT PLANS - SHEET 1	2	A
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	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
CR405	ROAD CROSS SECTIONS - SHEET 6	12	A
CR500	INTERSECTION DETAILS - SHEET 1	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
CR700	PAVEMENT AND TYPICAL DETAILS - SHEET 1	17	A
CR800	SIGNAGE AND LINEMARKING - SHEET 1	18	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.

file name: 309954CR100_A01_1.dwg, created: 17/03/2022 10:57:11 AM, modified: 17/03/2022 10:57:11 AM, sheet: 1 of 18 Sheets

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A	PRELIMINARY ISSUE	AW	17/03/22
Rev	Amendments	Approved	Date

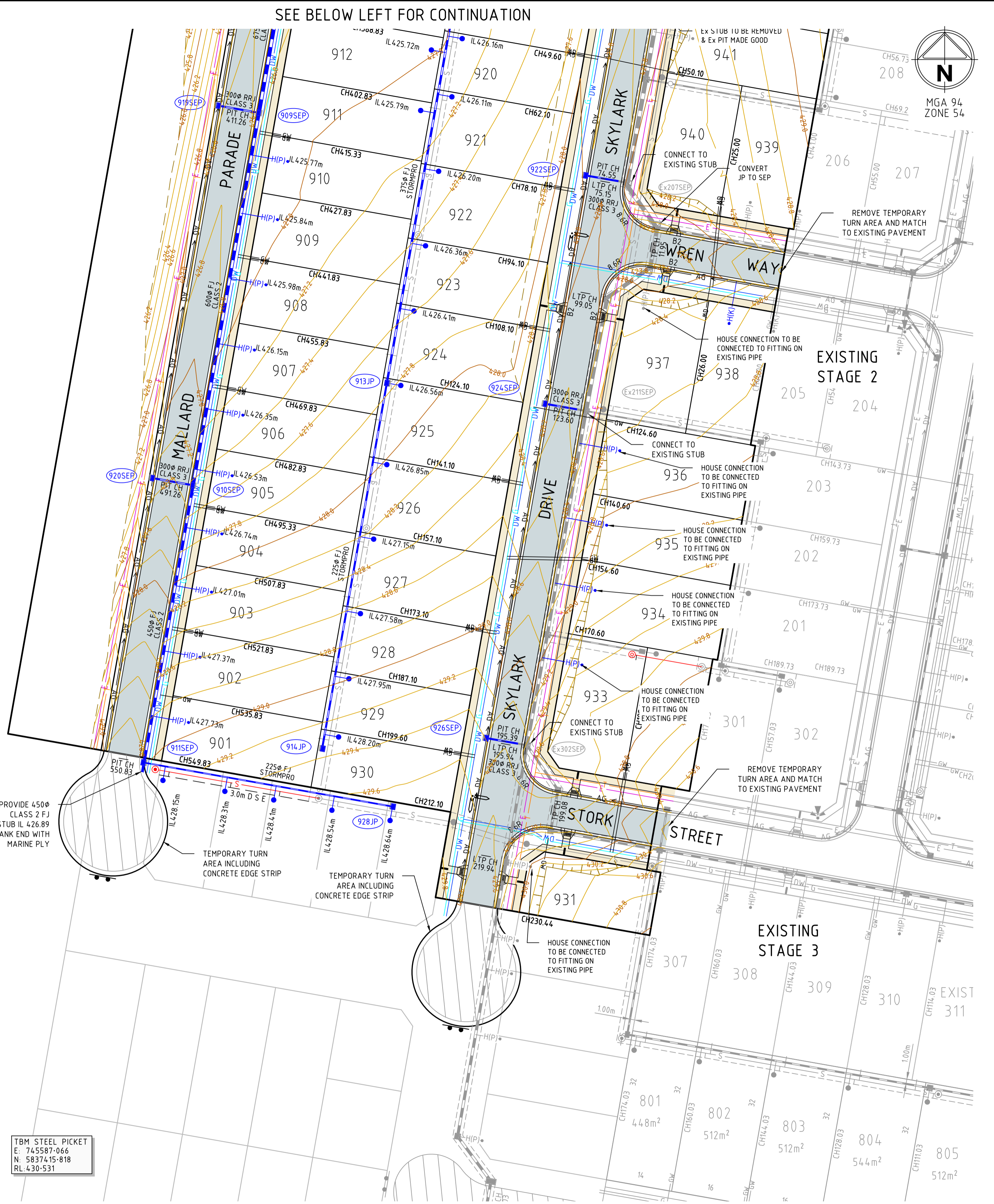
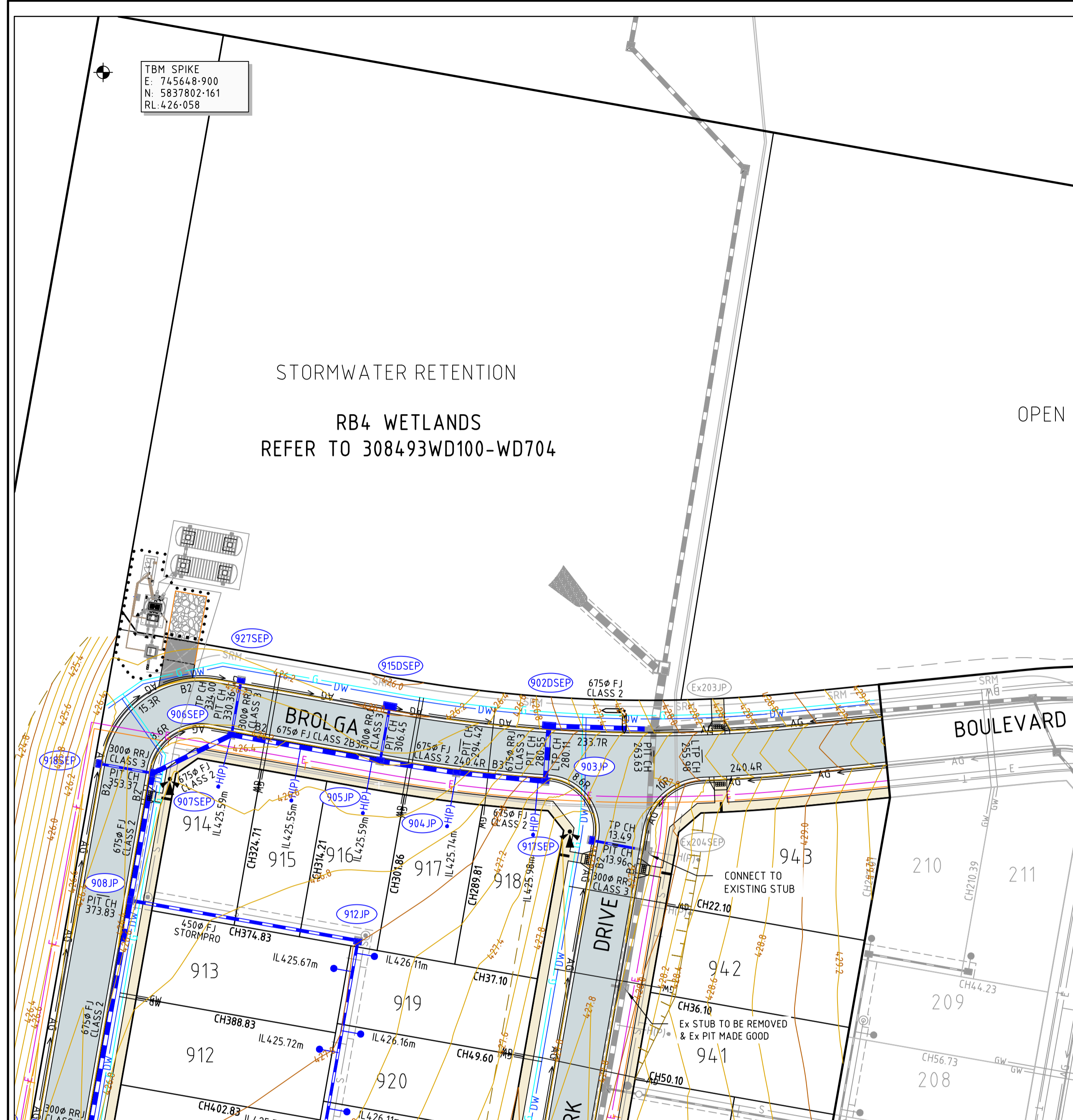
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Designed S.WOOD	Checked B.IBBS
Authorised A.WILKIE	Date 1/4/22

**CONROY'S GREEN
STAGE 9
ROAD AND DRAINAGE
GENERAL NOTES - SHEET 1**
BALLARAT CITY COUNCIL
SAN HUBERTO PROPERTIES P/L

PRELIMINARY Drg No **309954CR100** Rev **A**

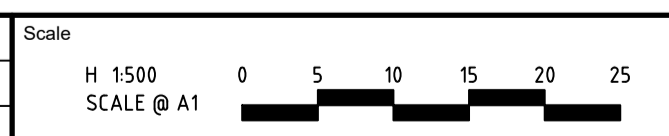


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TBM STEEL PICKET
E: 745587-066
N: 5837415-818
RL: 4.30-531



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1/4/22

CONROY'S GREEN
STAGE 9
ROAD AND DRAINAGE
ROAD LAYOUT PLANS - SHEET 1
BALLARAT CITY COUNCIL
SAN HUBERTO PROPERTIES P/L

PRELIMINARY Dwg No **309954CR200** Rev **A**

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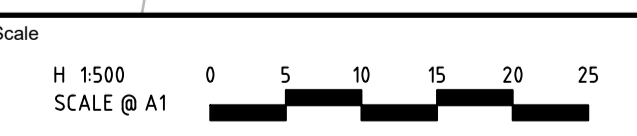
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FROM	TO	COLOUR
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-0.80	-0.70	
-0.70	-0.60	
-0.60	-0.50	
-0.50	-0.40	
-0.40	-0.30	
-0.30	-0.20	
-0.20	-0.10	
-0.10	0.00	
0.00	0.10	
0.10	0.20	
0.20	0.30	
0.30	0.40	
0.40	0.50	
0.50	0.60	
0.60	0.70	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



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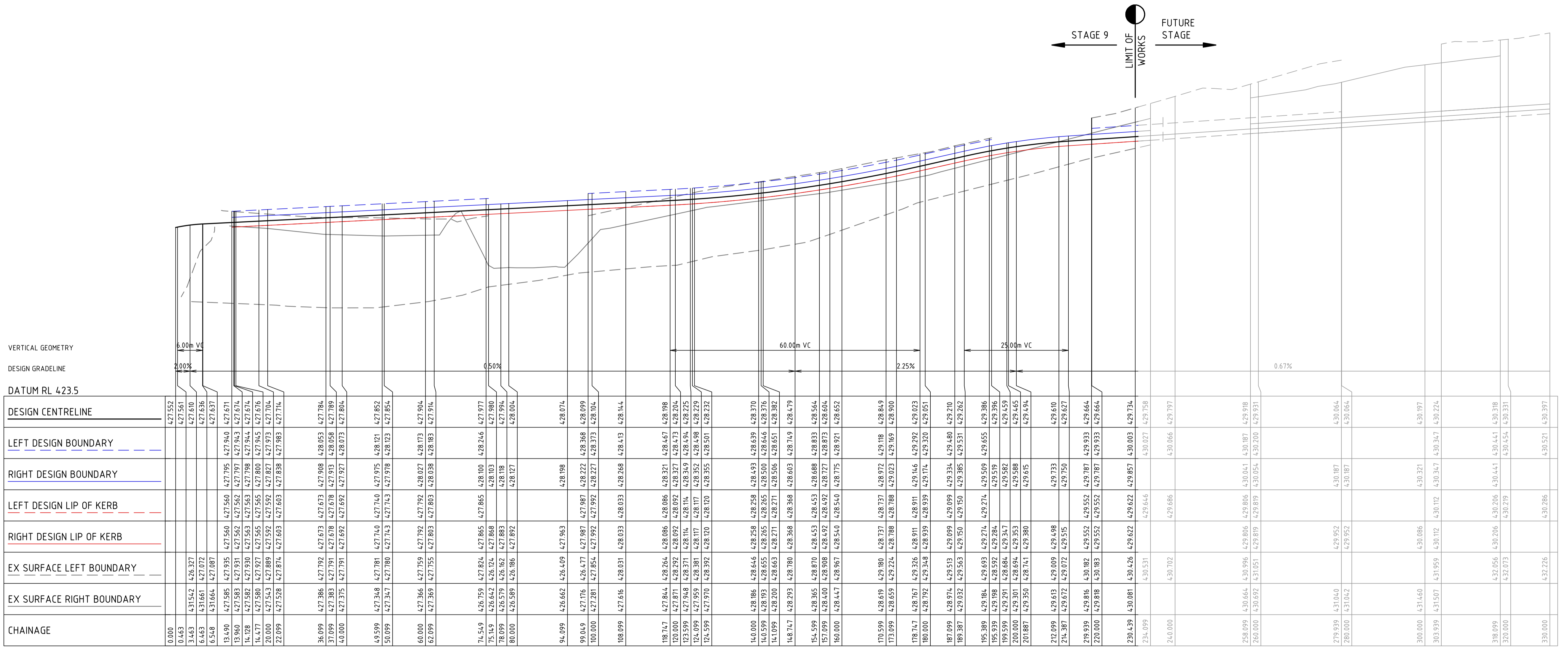
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CONROY'S GREEN
STAGE 9
 ROAD AND DRAINAGE
 ROAD LAYOUT PLANS - SHEET 2
 BALLARAT CITY COUNCIL
 SAN HUBERTO PROPERTIES P/L

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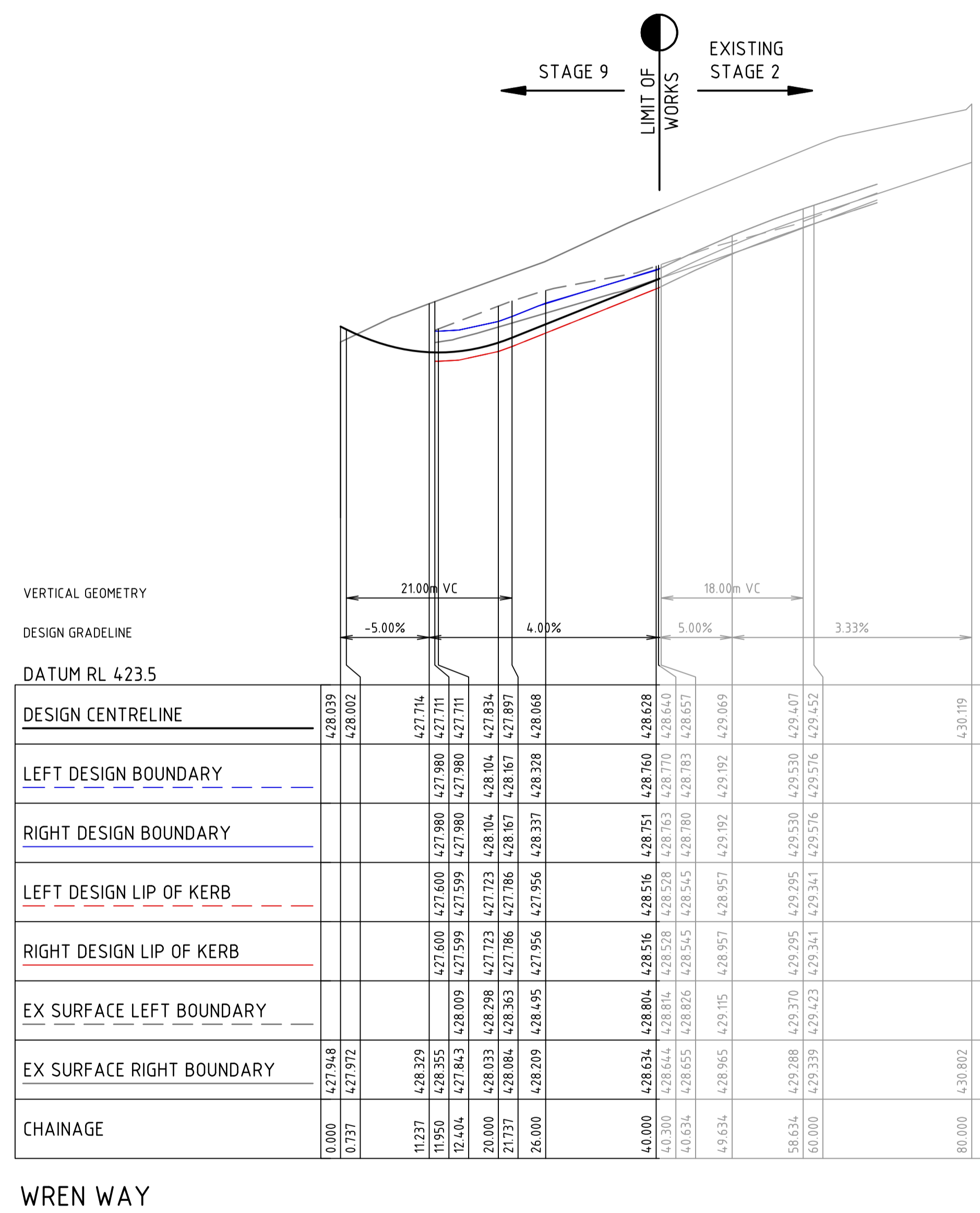
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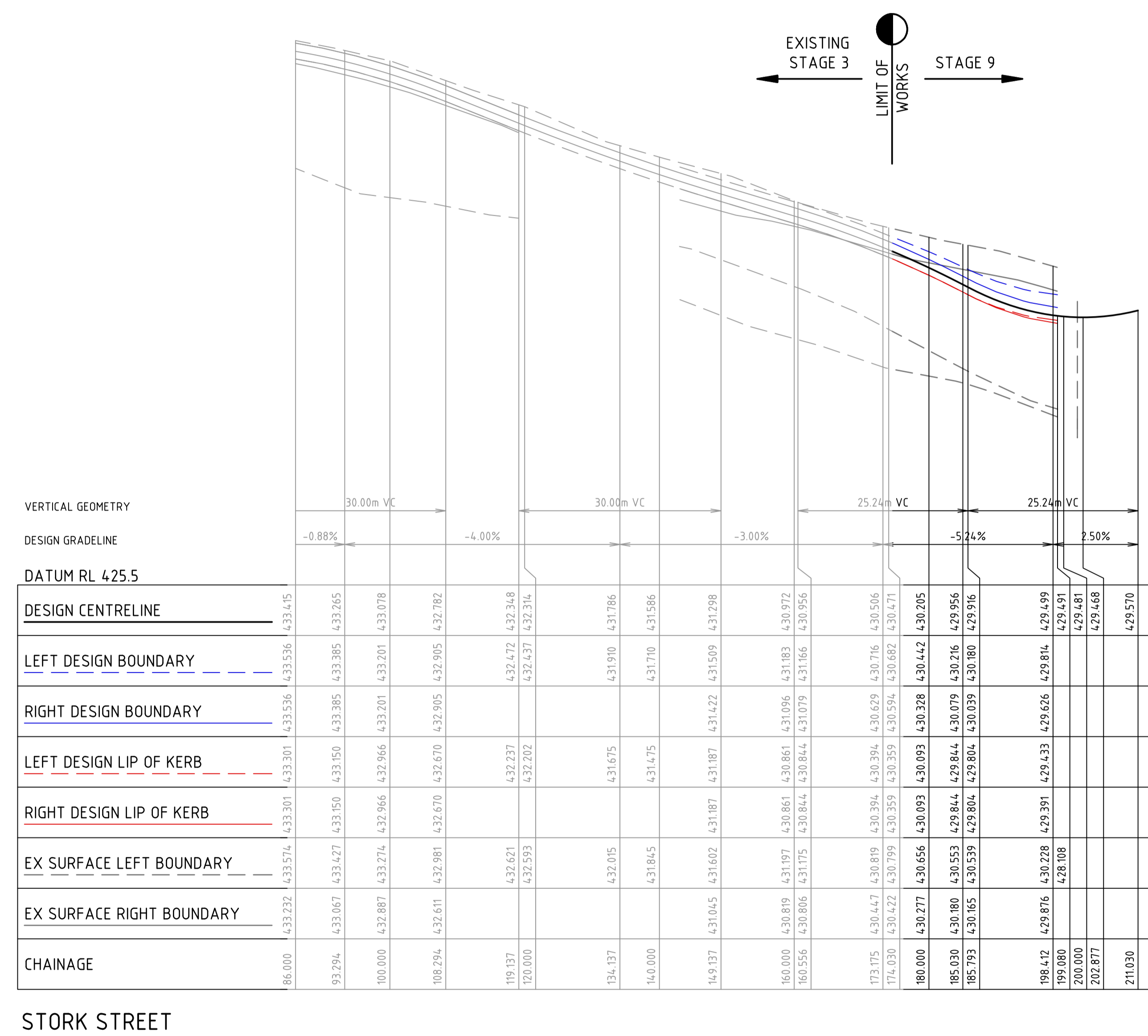
CONROY'S GREEN
STAGE 9
ROAD AND DRAINAGE
ROAD LONG SECTIONS - SHEET 1
BALLARAT CITY COUNCIL
SAN HUBERTO PROPERTIES P/L

PRELIMINARY

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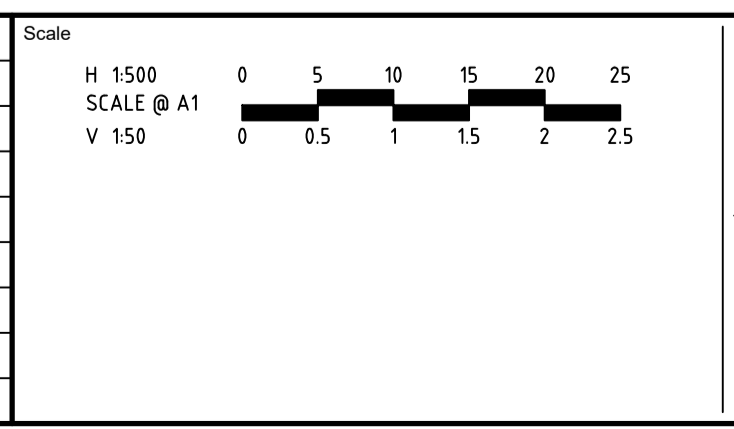


WREN WAY



STORK STREET

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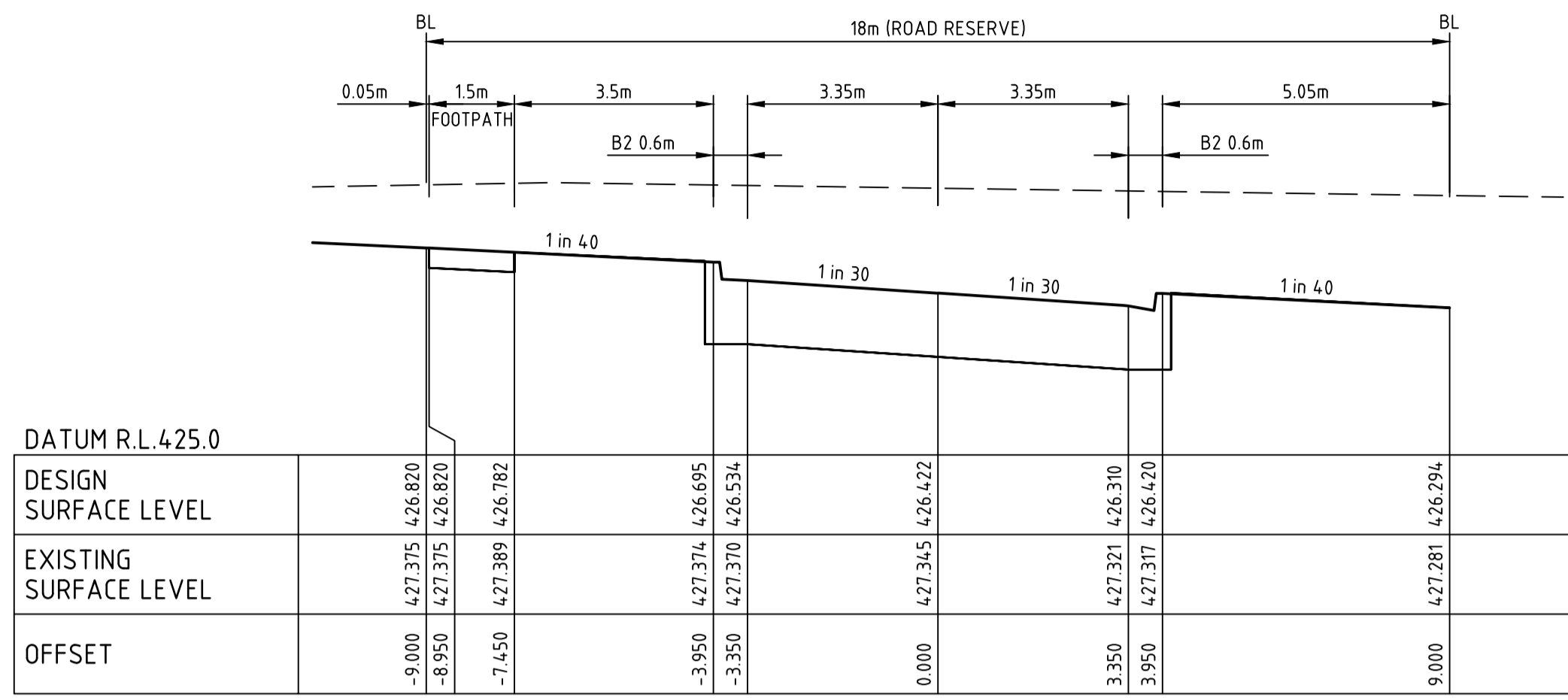
CONROY'S GREEN
STAGE 9
ROAD AND DRAINAGE
ROAD LONG SECTIONS - SHEET 3
 BALLARAT CITY COUNCIL
 SAN HUBERTO PROPERTIES P/L

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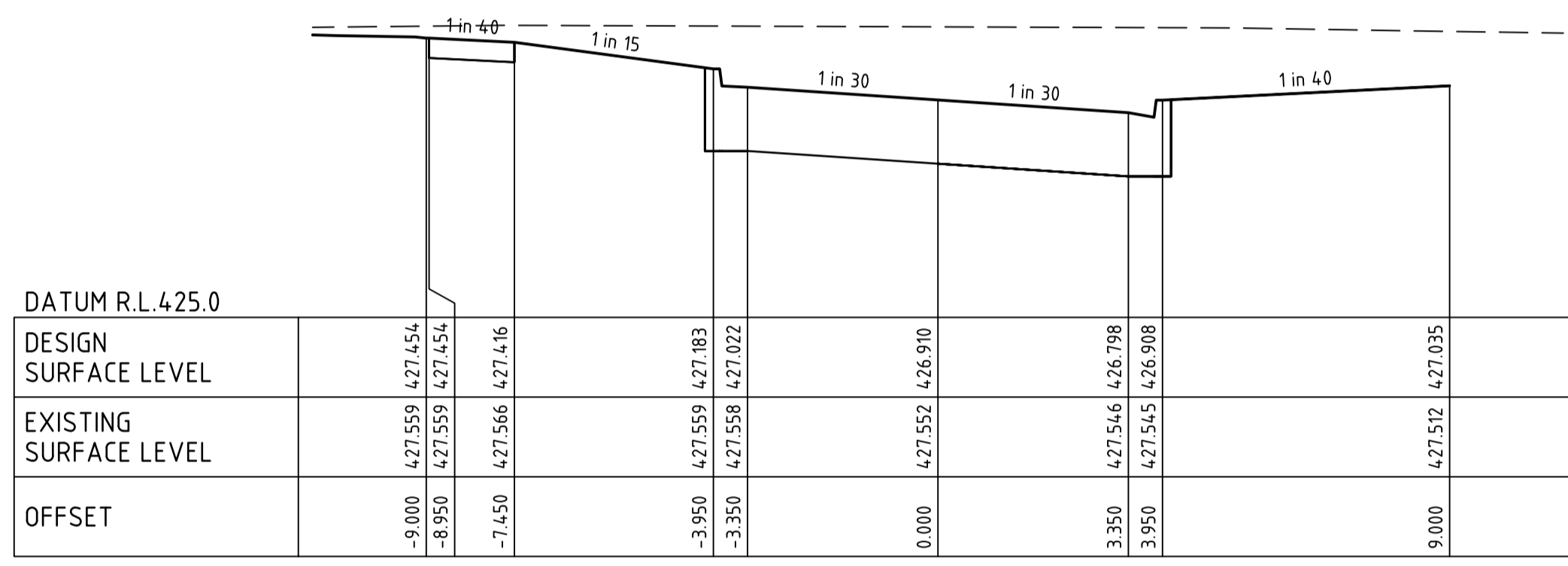
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Rev **A**

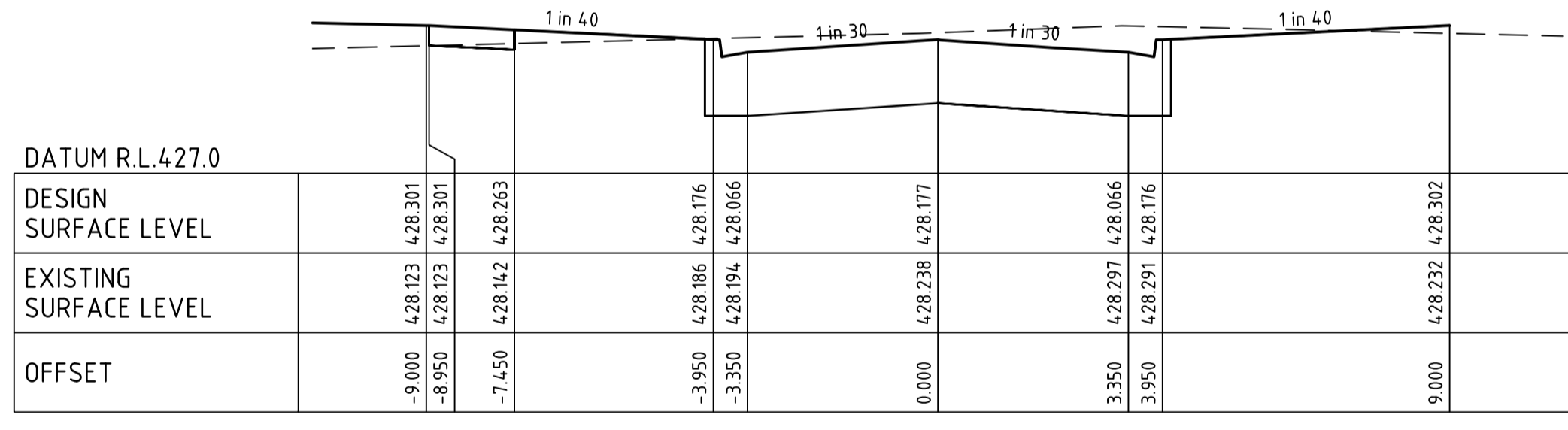
FILLING NOTE
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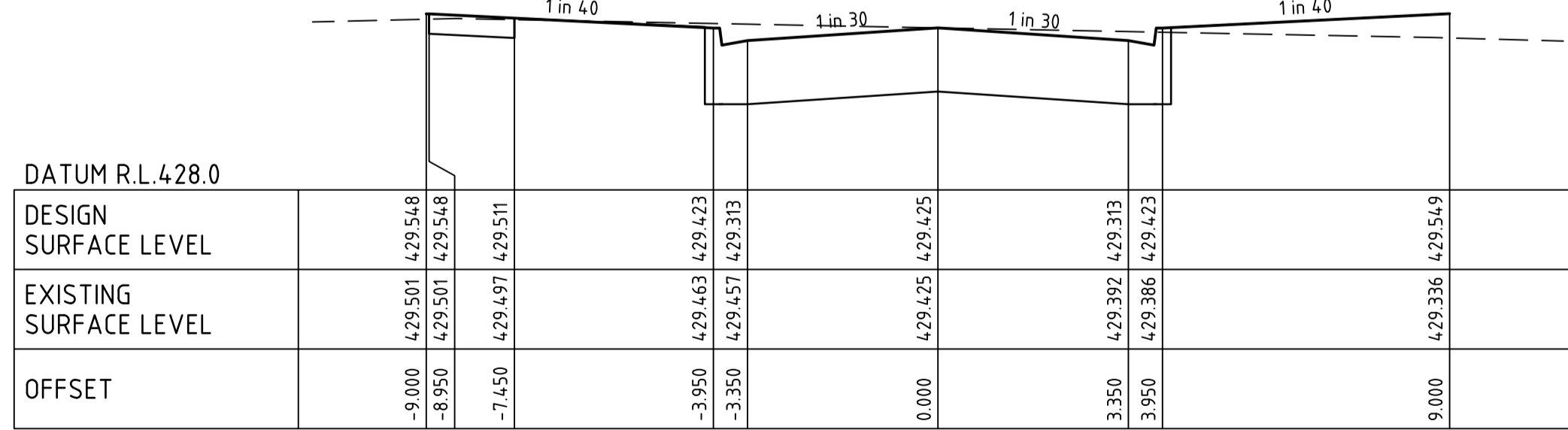
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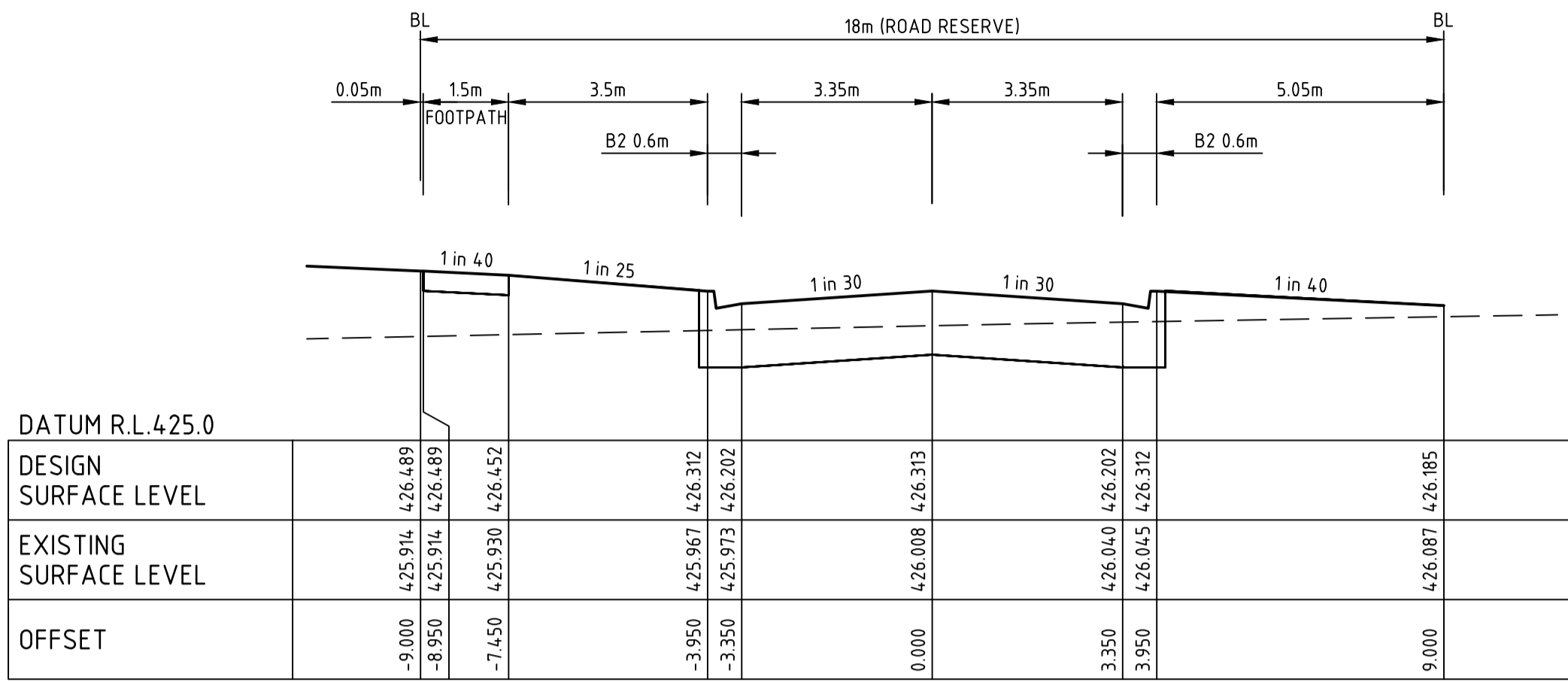
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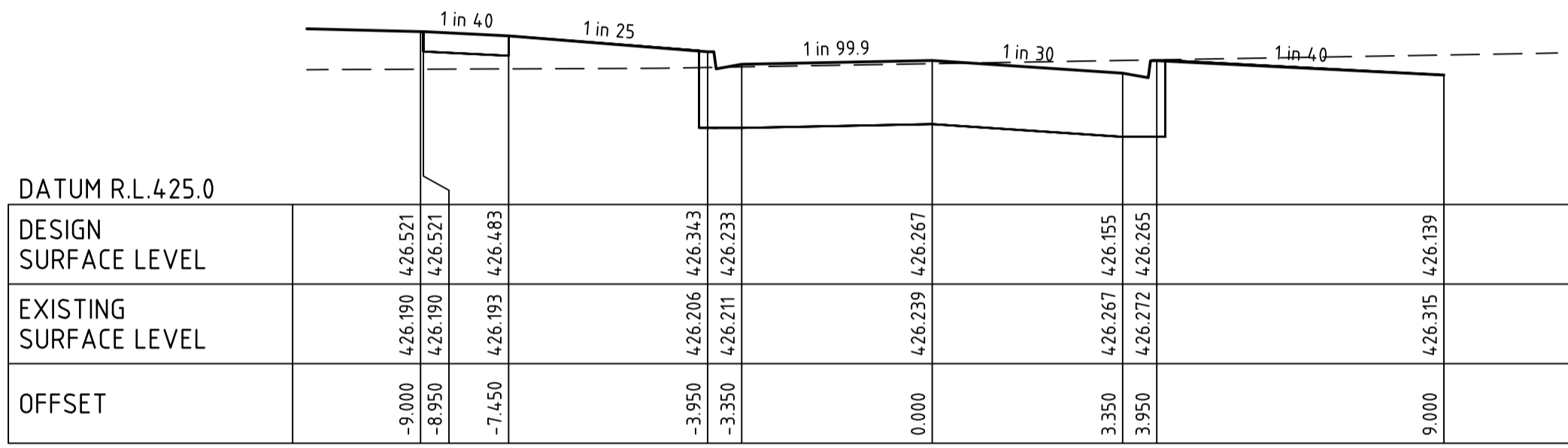
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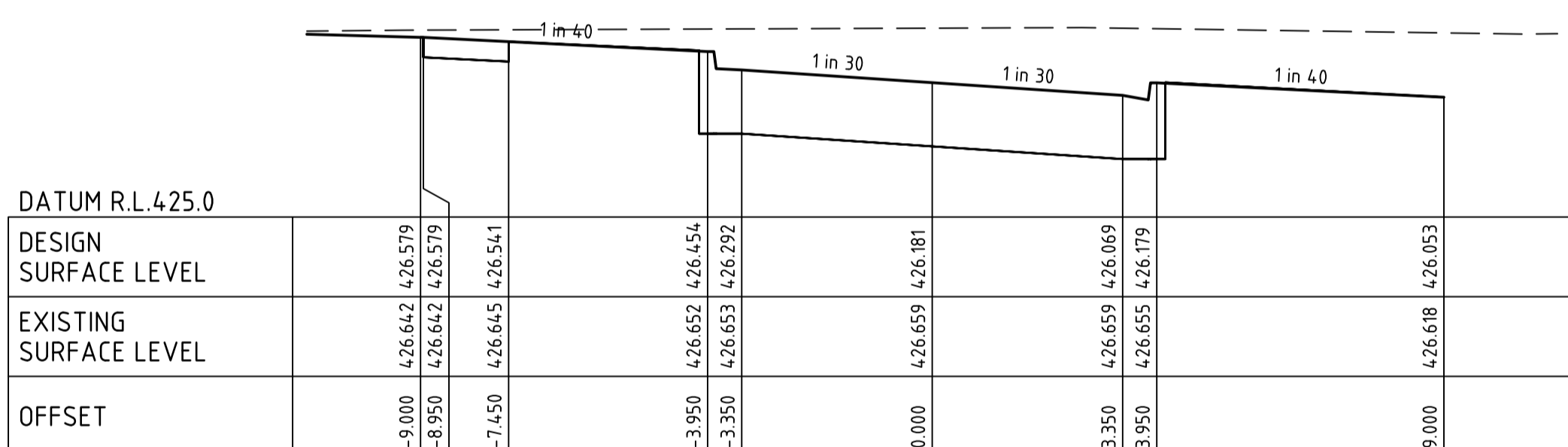
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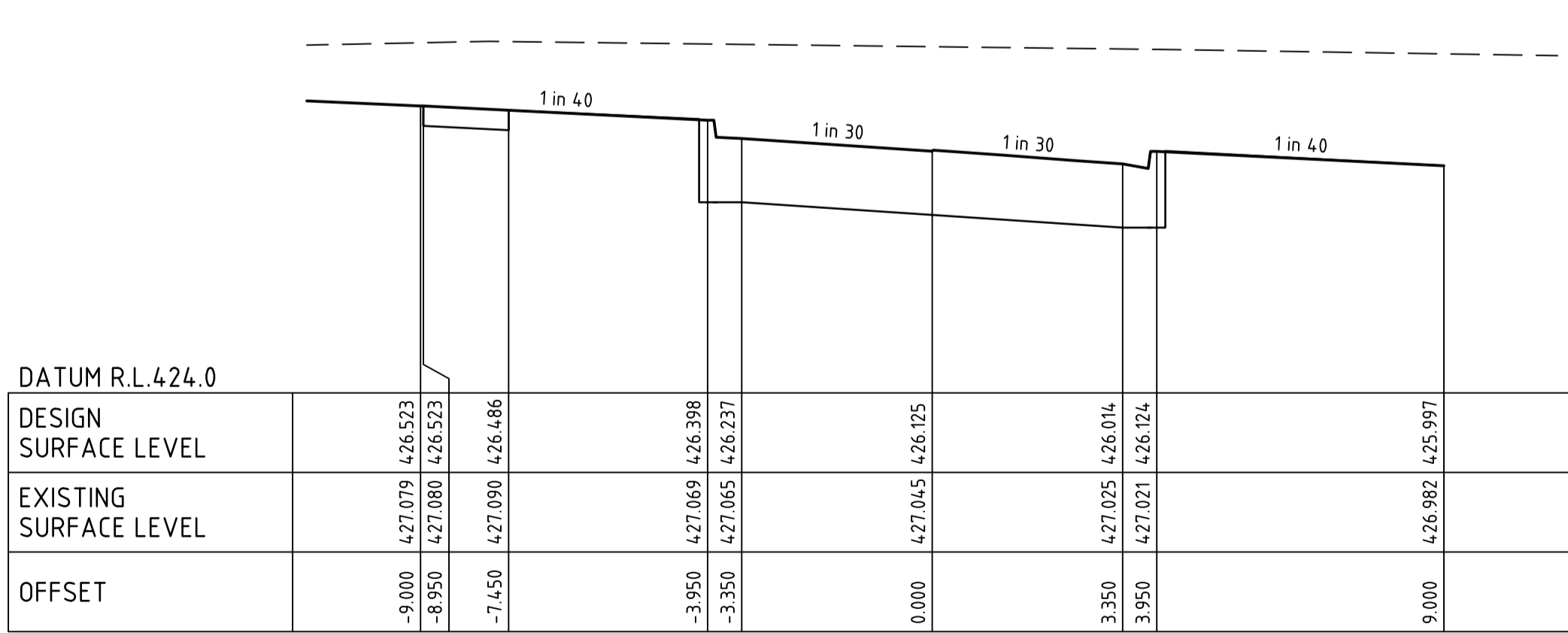
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BROLGA BLVD/ MALLARD PDE CH 314.21



BROLGA BLVD/ MALLARD PDE CH 301.86

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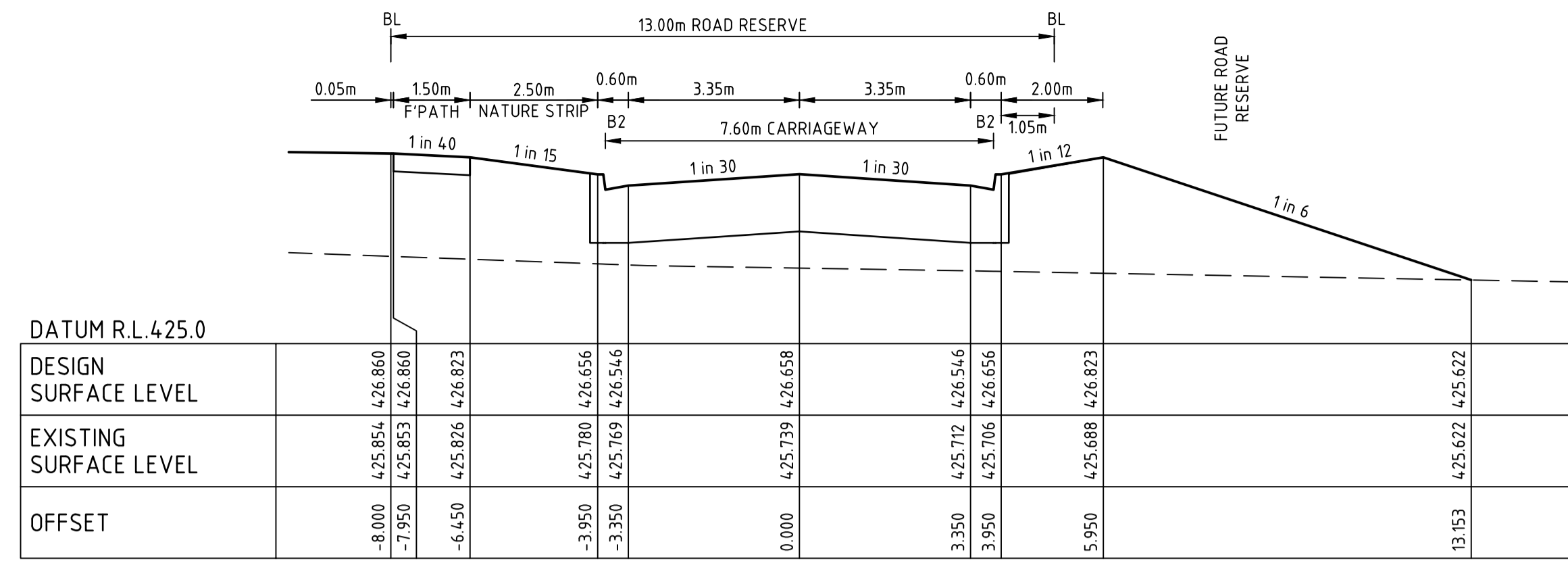
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CONROY'S GREEN
STAGE 9
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - SHEET 1
 BALLARAT CITY COUNCIL
 SAN HUBERTO PROPERTIES P/L

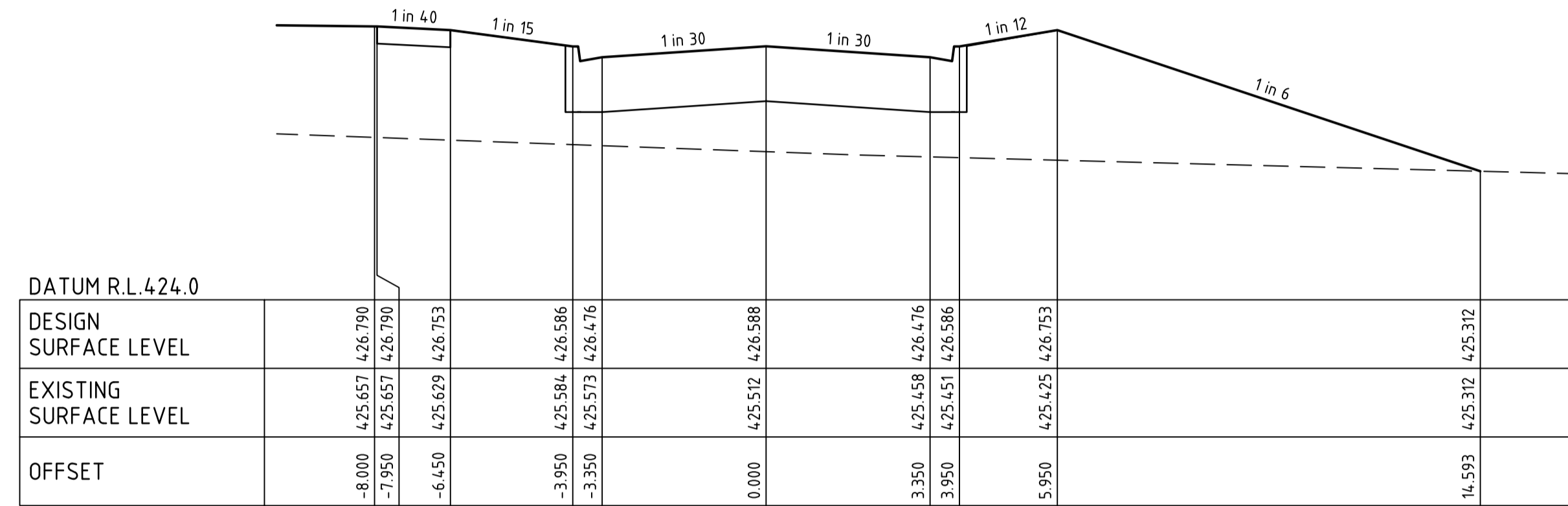
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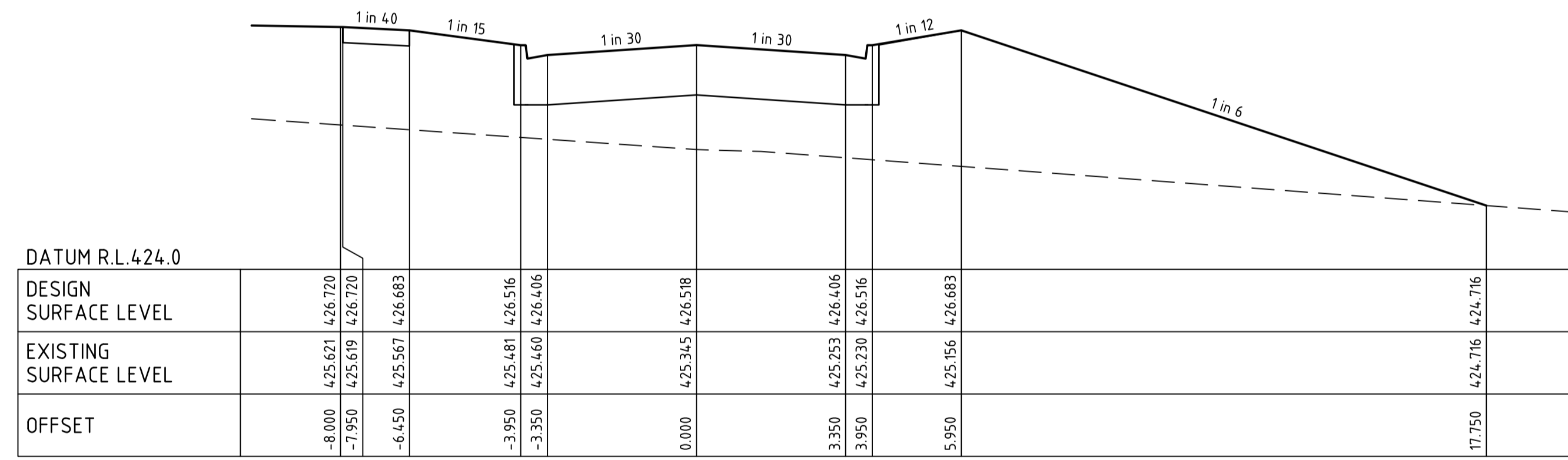
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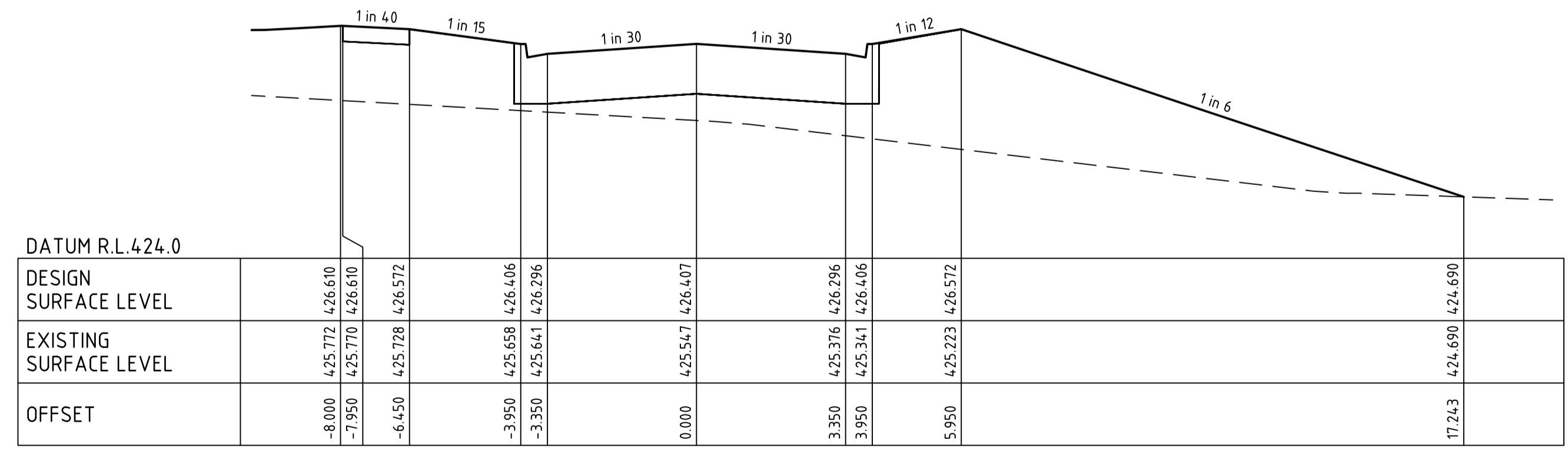
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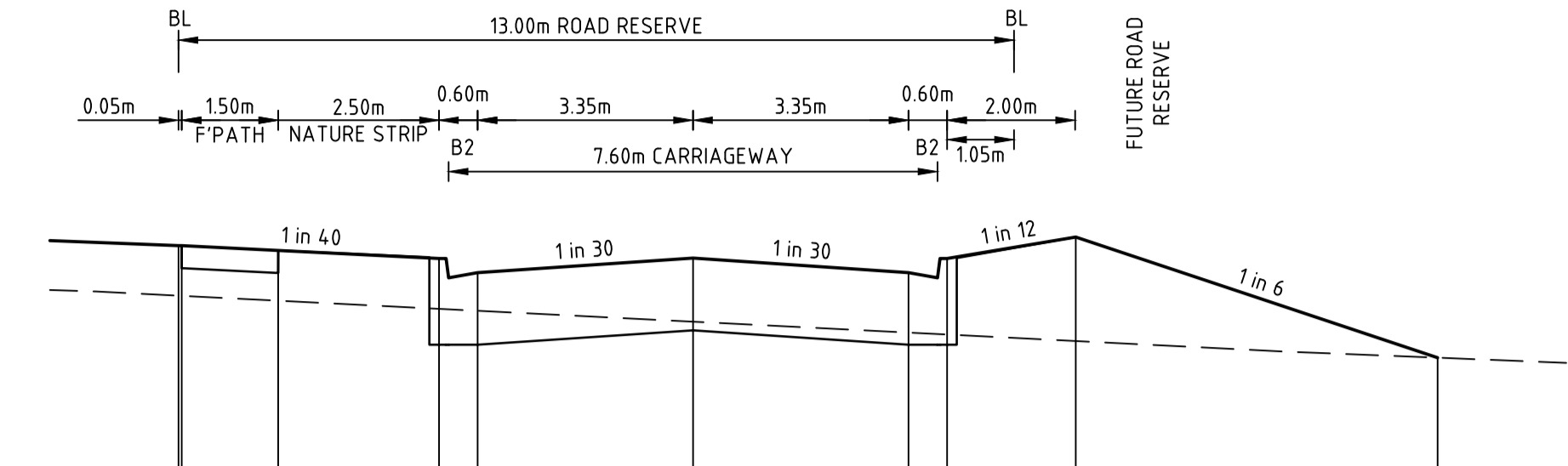
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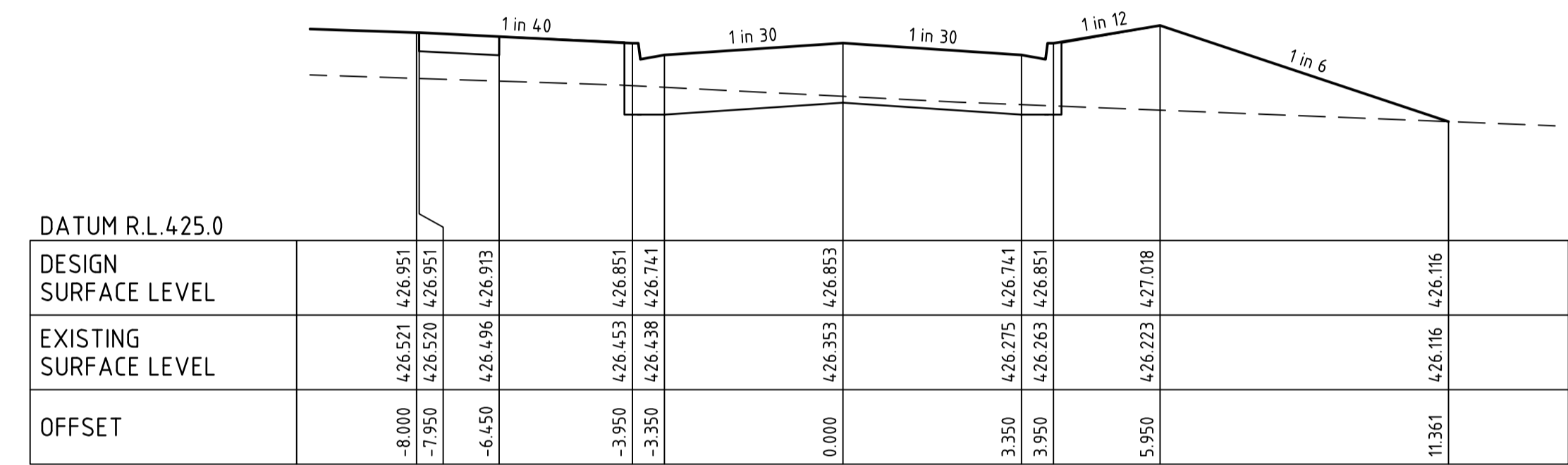


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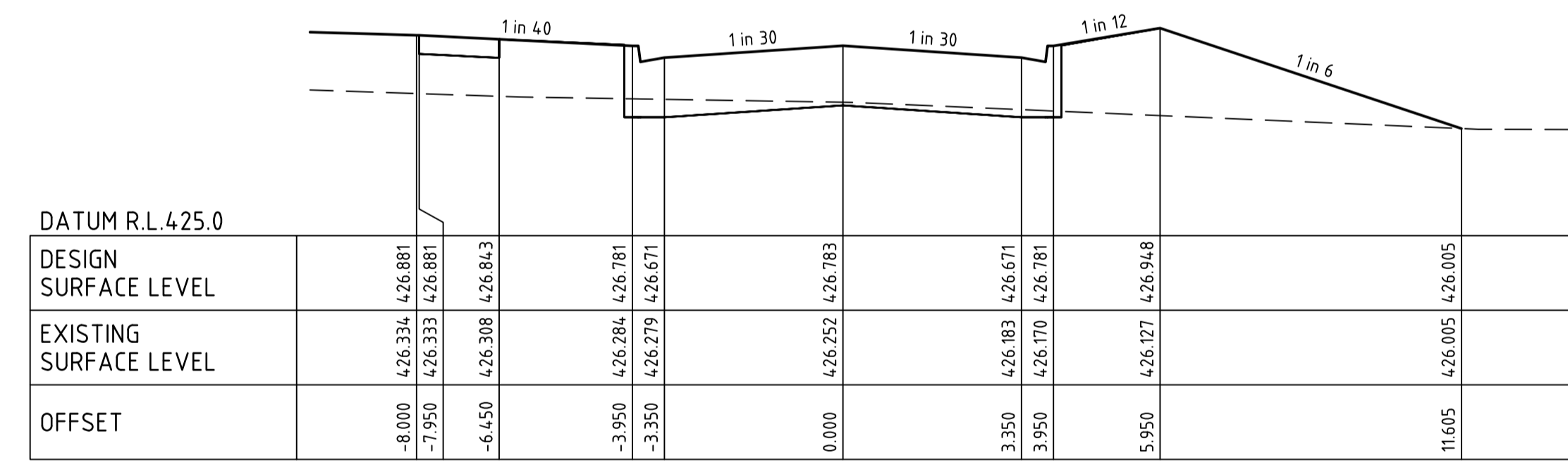


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EXISTING SURFACE LEVEL	-7.950 426.631 427.021 427.021 426.984 426.921 426.811 426.923 426.811 426.921 427.088 426.150
OFFSET	-8.000 -7.950 -6.450 -3.950 -3.350 0.000 3.350 3.950 5.950 11.576

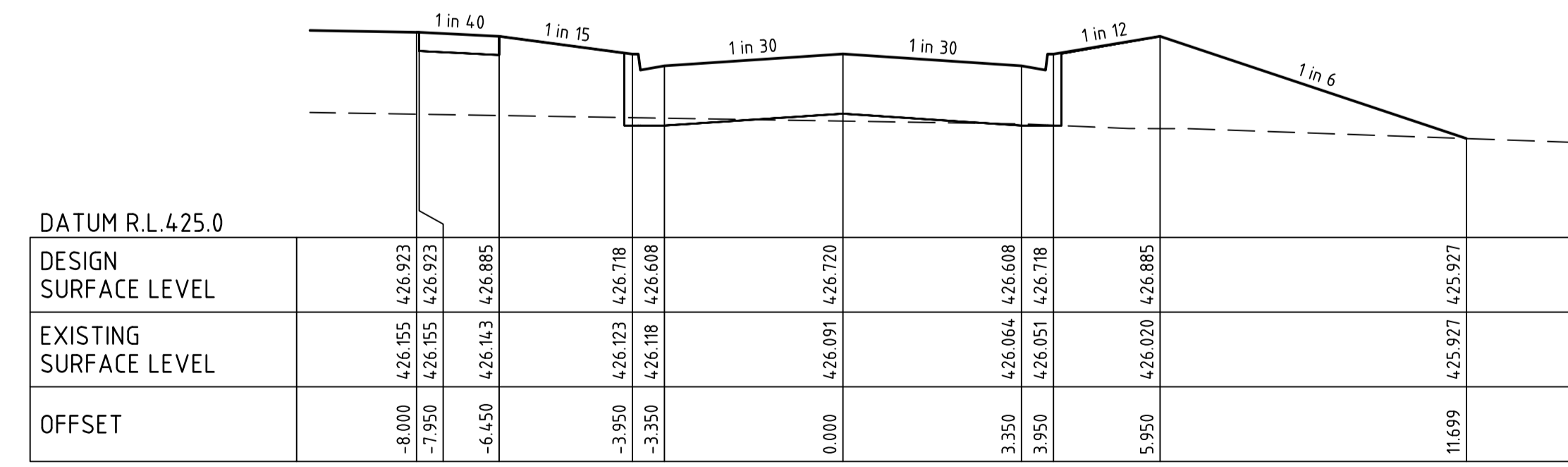
BROLGA BLVD/ MALLARD PDE CH 455.83



BROLGA BLVD/ MALLARD PDE CH 441.83



BROLGA BLVD/ MALLARD PDE CH 427.83



BROLGA BLVD/ MALLARD PDE CH 415.33

Scale	H 1:100	V 1:50
Scale @ A1		
Rev	A	PRELIMINARY ISSUE
Rev	Amendments	Approved
AW	17/03/22	Date

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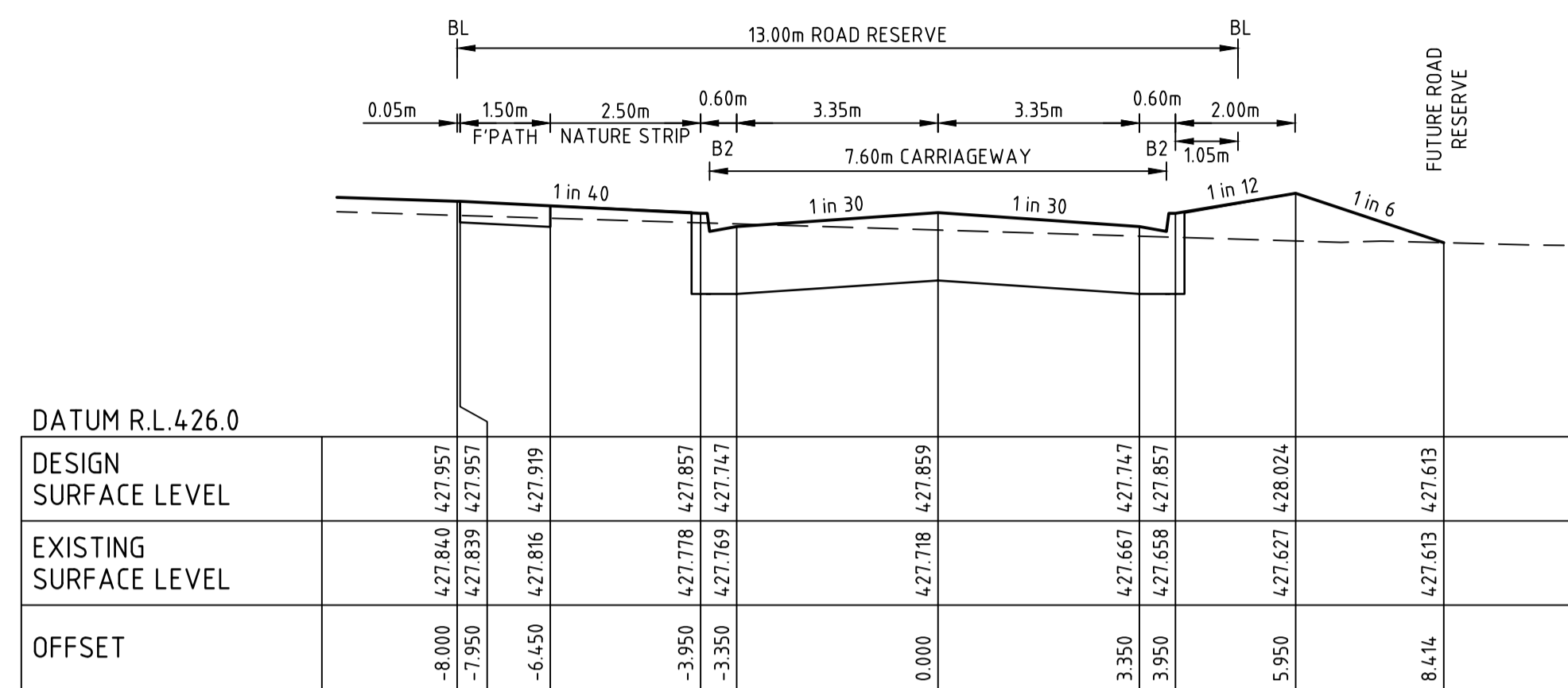
spiire
 16 BRIDGE STREET BENDIGO
 VICTORIA 3550 AUSTRALIA T 61 3 5448 2500
 spiire.com.au ABN 55 050 029 635

Designed	S.WOOD	Checked	B.IBBS
Authorised	A.WILKIE	Date	1/4/22

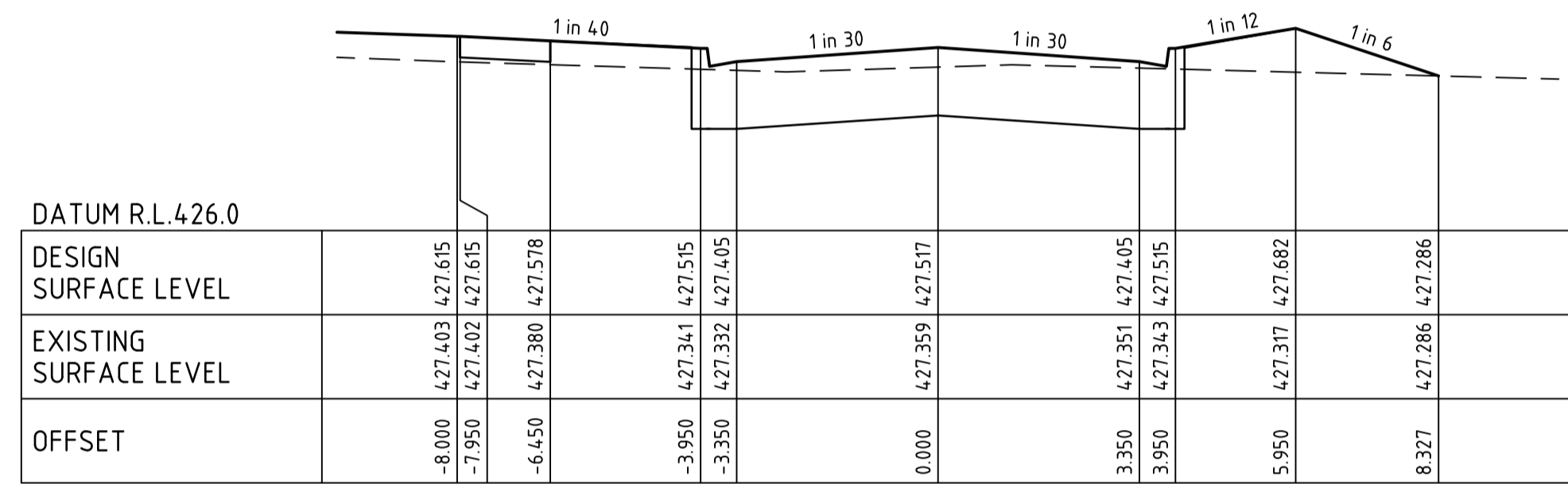
CONROY'S GREEN
STAGE 9
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - SHEET 2
 BALLARAT CITY COUNCIL
 SAN HUBERTO PROPERTIES P/L

PRELIMINARY Drg No **309954CR401** Rev **A**

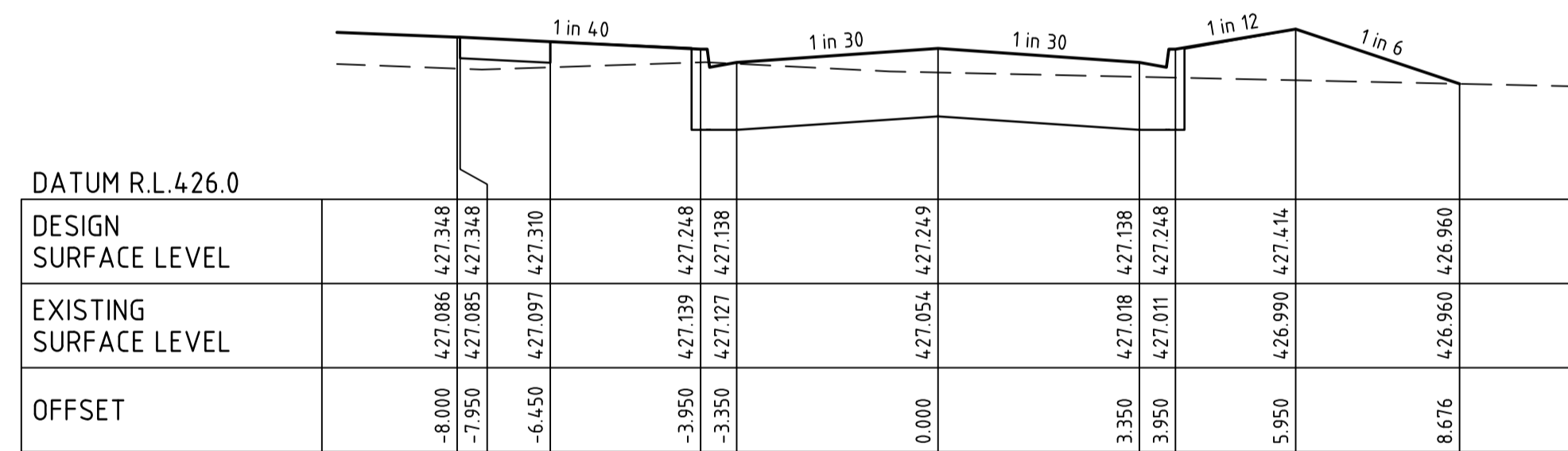
file name: 309954CR402.dwg, layout name: CR402, plot date: 19/04/2022, 3:58 PM, Sheet 9 of 18 Sheets



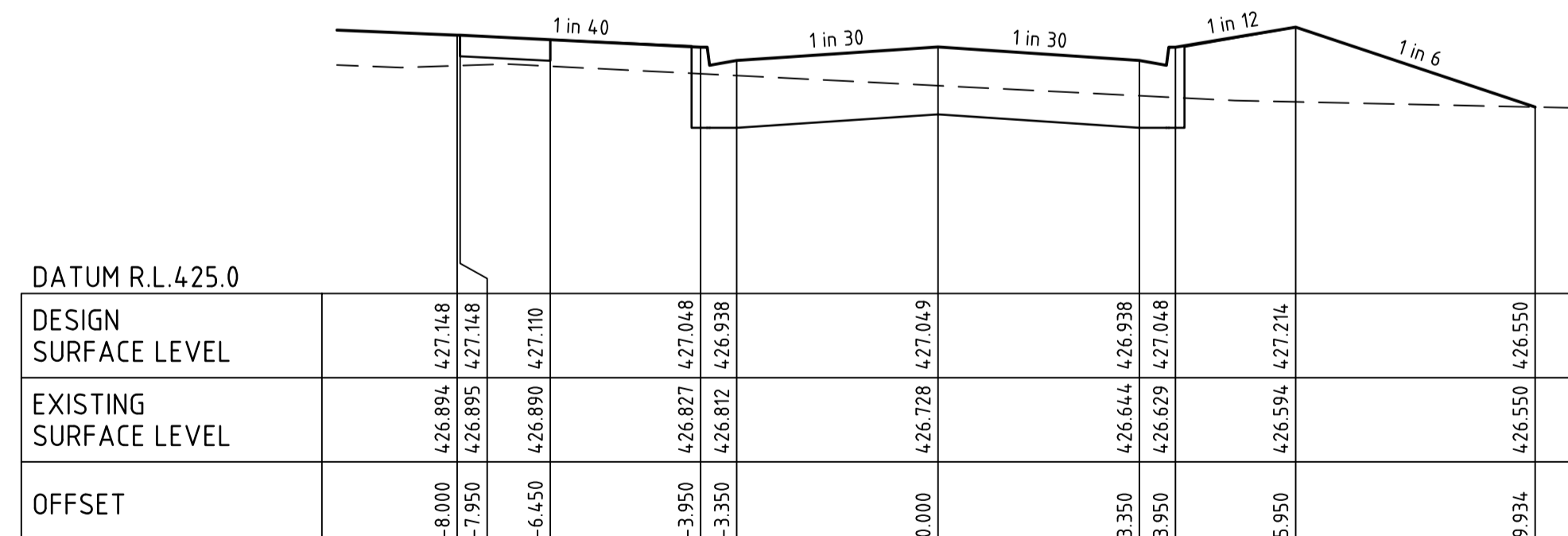
BROLGA BLVD/ MALLARD PDE CH 507.83



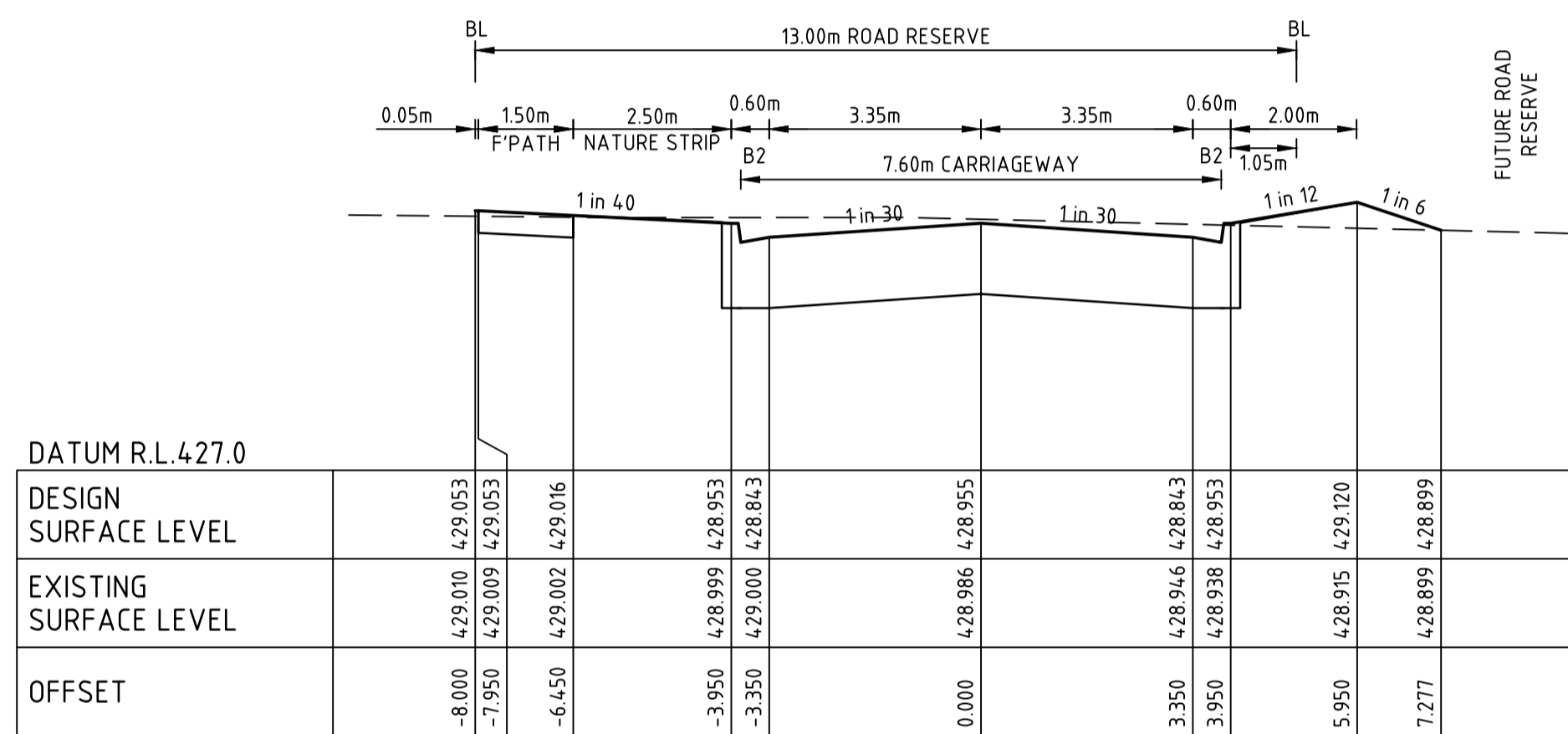
BROLGA BLVD/ MALLARD PDE CH 495.33



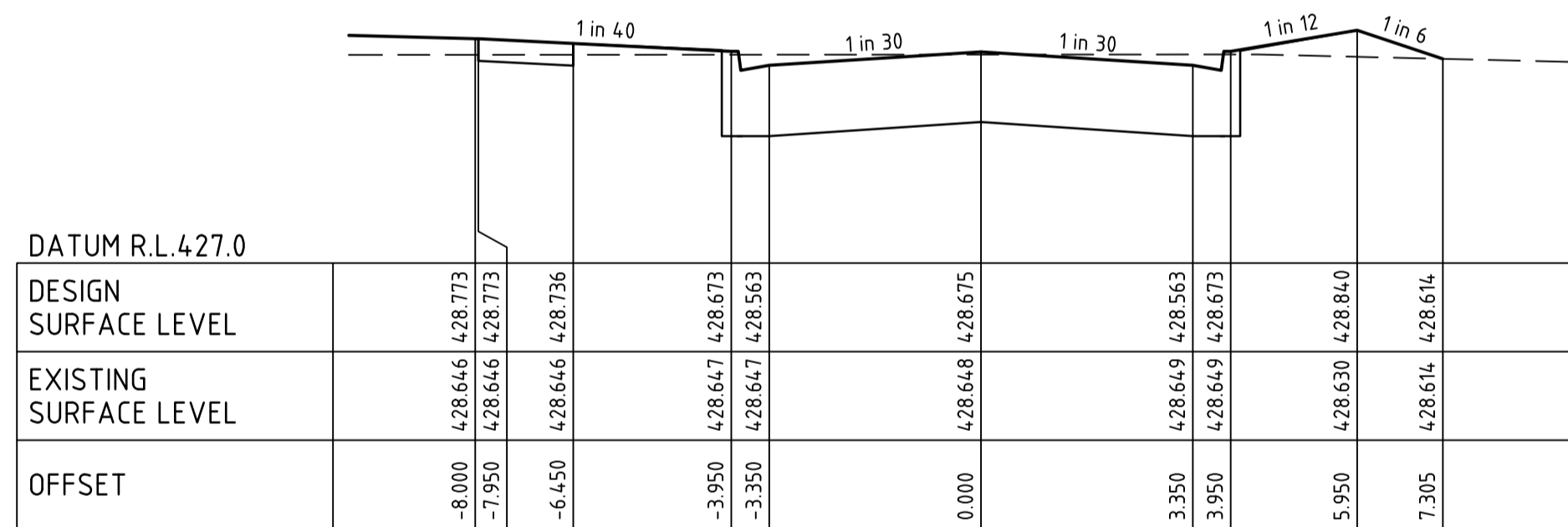
BROLGA BLVD/ MALLARD PDE CH 482.83



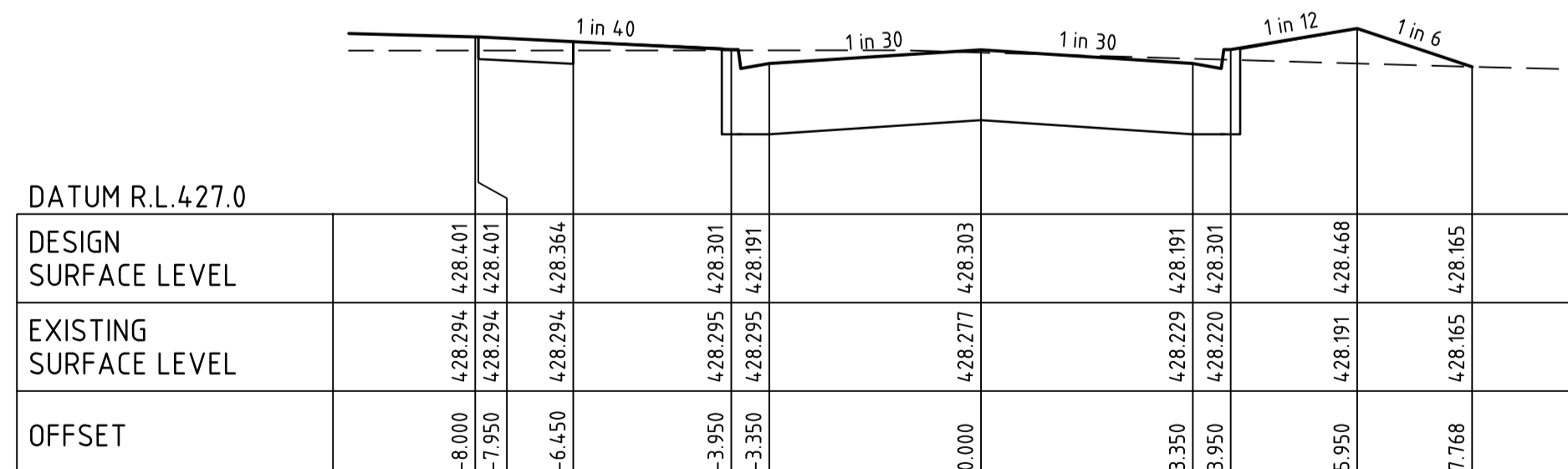
BROLGA BLVD/ MALLARD PDE CH 469.83



BROLGA BLVD/ MALLARD PDE CH 549.83



BROLGA BLVD/ MALLARD PDE CH 535.83



BROLGA BLVD/ MALLARD PDE CH 521.83

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

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spiire.com.au ABN 55 050 029 635

Designed
S.WOOD

Checked
B.IBBS

Authorised
A.WILKIE

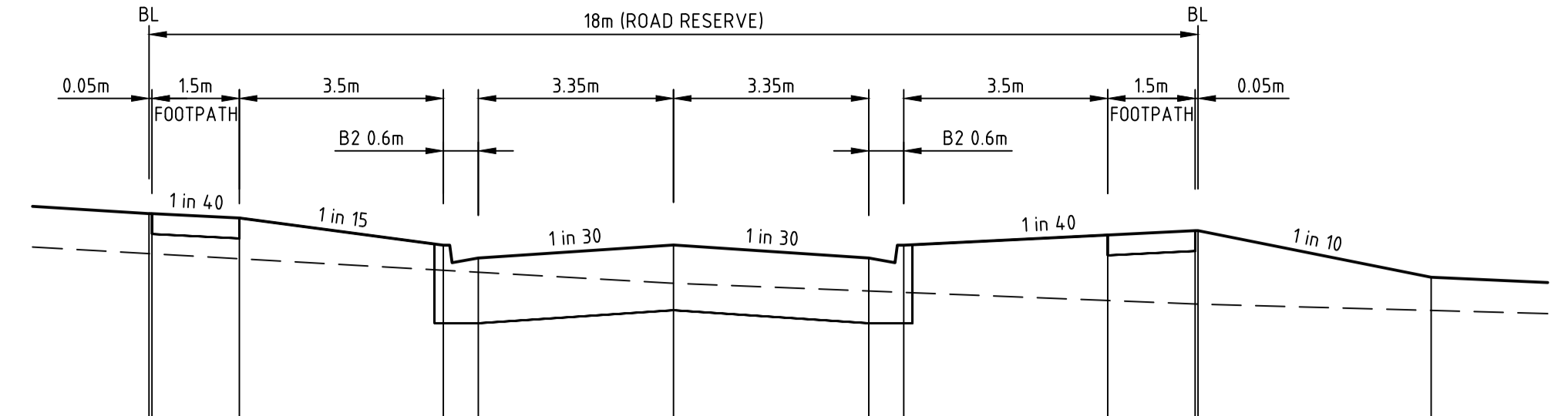
Date
1/4/22

CONROY'S GREEN
STAGE 9
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 3
BALLARAT CITY COUNCIL
SAN HUBERTO PROPERTIES P/L

PRELIMINARY Drg No 309954CR402 Rev A

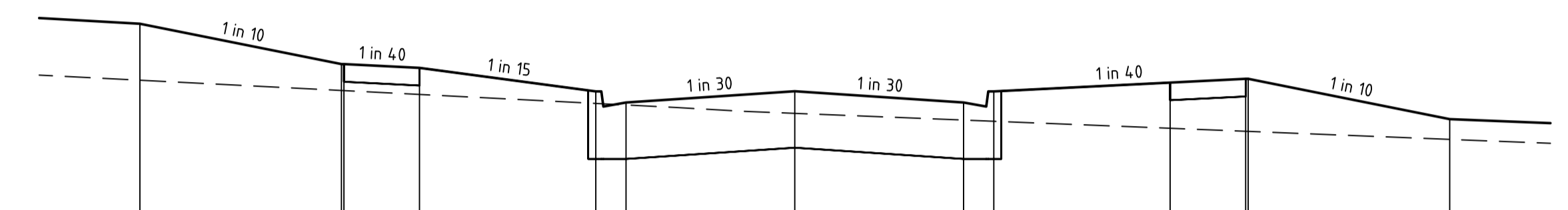
Rev	A	PRELIMINARY ISSUE	AW	17/03/22
		Amendments	Approved	Date

file name: 309954CR403.dwg, layout name: CR403, plot date: 19/04/2022 3:58 PM, sheet 10 of 18 sheets



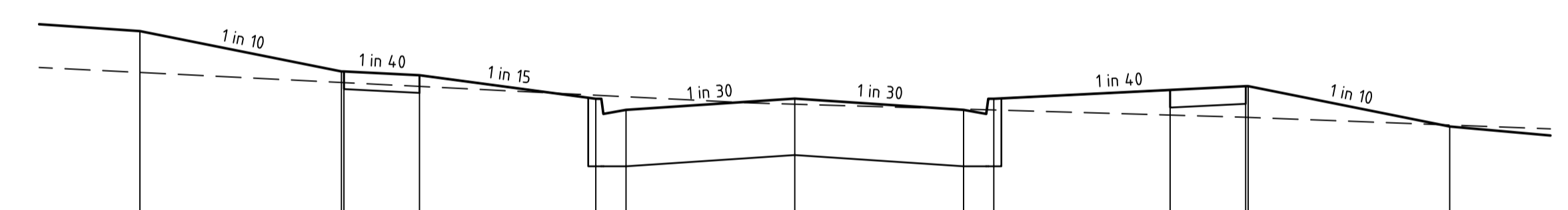
DATUM R.L. 426.0	
DESIGN SURFACE LEVEL	-9.000 427.980 428.123 1.5m 3.5m 3.35m 3.35m 3.5m 1.5m 0.05m
EXISTING SURFACE LEVEL	-8.950 427.779 428.123 -7.450 427.736 428.086 -3.950 427.637 427.853 -3.350 427.620 427.743 0.000 427.526 427.854 3.350 427.459 427.743 3.950 427.447 427.853 7.450 427.378 427.940 8.950 427.348 427.978 9.000 427.347 427.978 13.000 427.293 427.518
OFFSET	

SKYLARK DRIVE CH 50.10



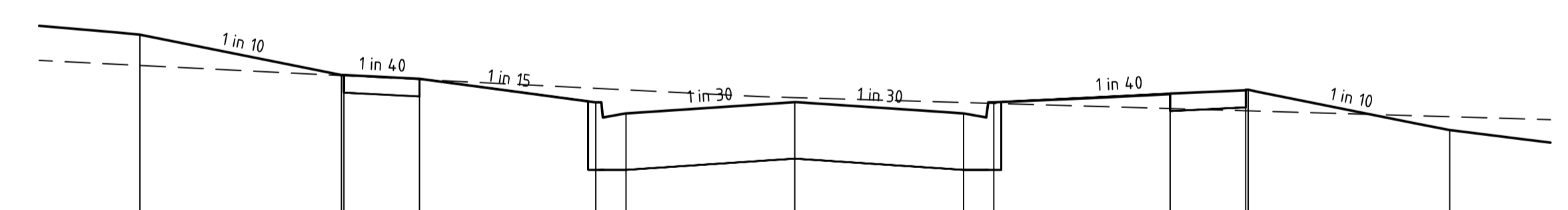
DATUM R.L. 426.0	
DESIGN SURFACE LEVEL	-13.000 427.893 428.453
EXISTING SURFACE LEVEL	-9.000 427.792 428.053 -8.950 427.790 428.053 -7.450 427.752 428.016 -3.950 427.663 427.783 -3.350 427.648 427.673 0.000 427.565 427.784 3.350 427.498 427.673 3.950 427.486 427.783 7.450 427.417 427.870 8.950 427.387 427.908 9.000 427.386 427.908 13.000 427.307 427.508
OFFSET	

SKYLARK DRIVE CH 36.10



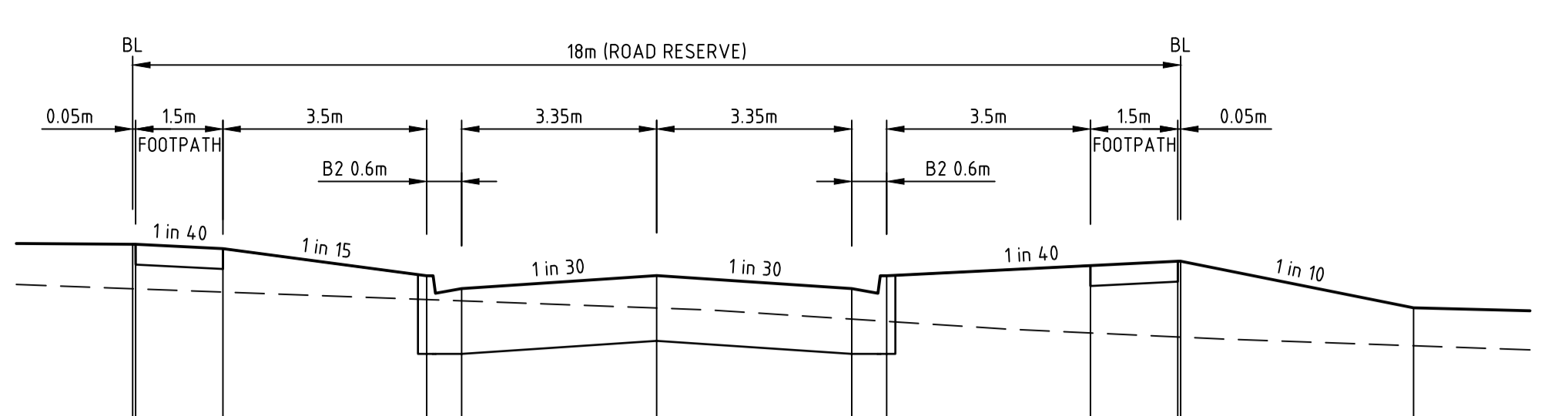
DATUM R.L. 426.0	
DESIGN SURFACE LEVEL	-13.000 427.974 428.383
EXISTING SURFACE LEVEL	-9.000 427.874 427.983 -8.950 427.873 427.983 -7.450 427.835 427.946 -3.950 427.748 427.713 -3.350 427.733 427.603 0.000 427.659 427.714 3.350 427.610 427.603 3.950 427.601 427.713 7.450 427.551 427.800 8.950 427.529 427.838 9.000 427.528 427.838 13.000 427.452 427.438
OFFSET	

SKYLARK DRIVE CH 22.10



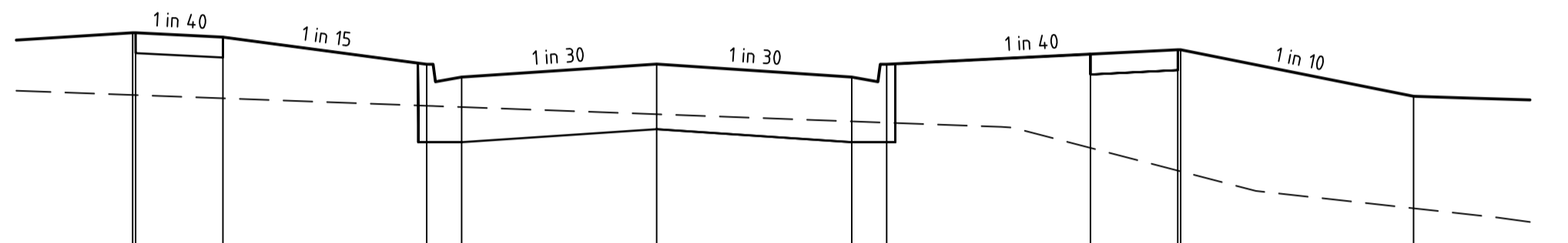
DATUM R.L. 426.0	
DESIGN SURFACE LEVEL	-13.000 428.035 428.340
EXISTING SURFACE LEVEL	-9.000 427.935 427.940 -8.950 427.934 427.940 -7.450 427.896 427.903 -3.950 427.808 427.670 -3.350 427.793 427.560 0.000 427.716 427.671 3.350 427.688 427.560 3.950 427.659 427.670 7.450 427.608 427.751 8.950 427.586 427.795 9.000 427.585 427.795 13.000 427.527 427.395
OFFSET	

SKYLARK DRIVE CH 13.49



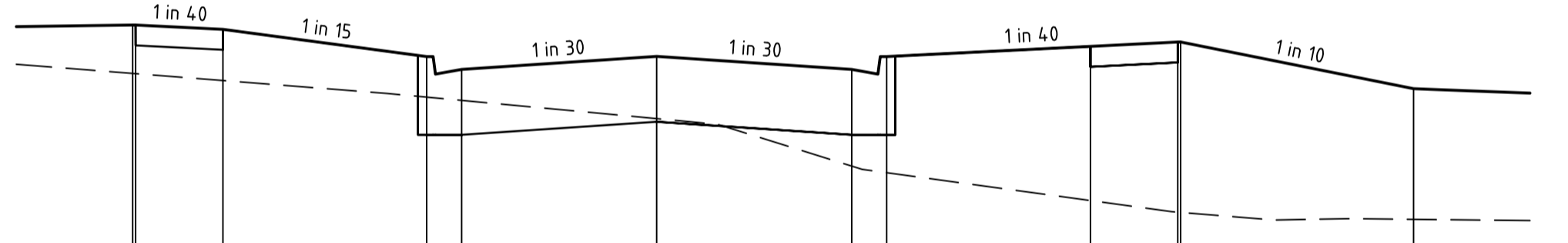
DATUM R.L. 426.0	
DESIGN SURFACE LEVEL	-9.000 428.031 428.413 1.5m 3.5m 3.35m 3.35m 3.5m 1.5m 0.05m
EXISTING SURFACE LEVEL	-8.950 428.030 428.413 -7.450 428.003 428.376 -3.950 427.939 428.143 -3.350 427.928 428.033 0.000 427.866 428.144 3.350 427.771 428.033 3.950 427.752 428.143 7.450 427.652 428.230 8.950 427.618 428.268 9.000 427.616 428.268 13.000 427.542 427.868
OFFSET	

SKYLARK DRIVE CH 108.10



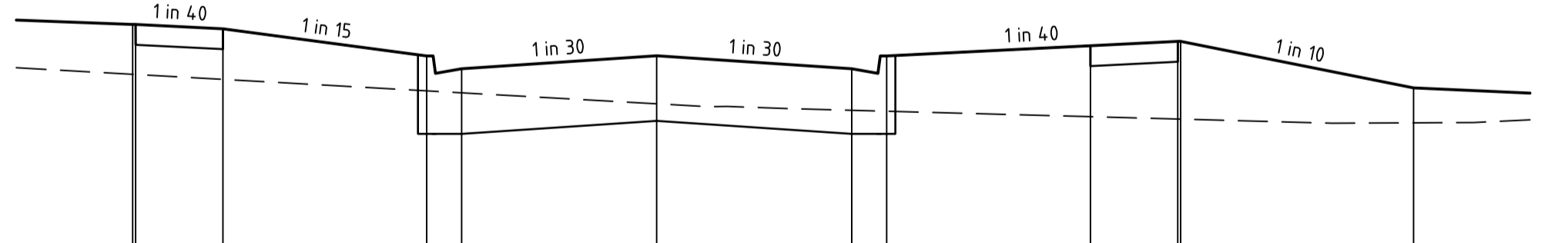
DATUM R.L. 426.0	
DESIGN SURFACE LEVEL	-9.000 427.833 428.368 1.5m 3.5m 3.35m 3.35m 3.5m 1.5m 0.05m
EXISTING SURFACE LEVEL	-8.950 427.832 428.368 -7.450 427.805 428.331 -3.950 427.741 428.097 -3.350 427.730 427.987 0.000 427.668 428.099 3.350 427.606 427.987 3.950 427.595 428.097 7.450 427.378 428.185 8.950 427.183 428.222 9.000 427.176 428.222 13.000 426.859 427.822
OFFSET	

SKYLARK DRIVE CH 99.05



DATUM R.L. 426.0	
DESIGN SURFACE LEVEL	-9.000 427.833 428.249 1.5m 3.5m 3.35m 3.35m 3.5m 1.5m 0.05m
EXISTING SURFACE LEVEL	-8.950 427.832 428.249 -7.450 427.773 428.211 -3.950 427.630 427.978 -3.350 427.602 427.868 0.000 427.446 427.980 3.350 427.039 427.868 3.950 426.983 427.978 7.450 426.744 428.065 8.950 426.644 428.103 9.000 426.642 428.103 13.000 426.583 427.703
OFFSET	

SKYLARK DRIVE CH 75.15



DATUM R.L. 426.0	
DESIGN SURFACE LEVEL	-9.000 427.755 428.183 1.5m 3.5m 3.35m 3.35m 3.5m 1.5m 0.05m
EXISTING SURFACE LEVEL	-8.950 427.753 428.183 -7.450 427.711 428.146 -3.950 427.612 427.913 -3.350 427.596 427.803 0.000 427.501 427.914 3.350 427.445 427.803 3.950 427.437 427.913 7.450 427.390 428.000 8.950 427.370 428.038 9.000 427.369 428.038 13.000 427.337 427.638
OFFSET	

SKYLARK DRIVE CH 62.10

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

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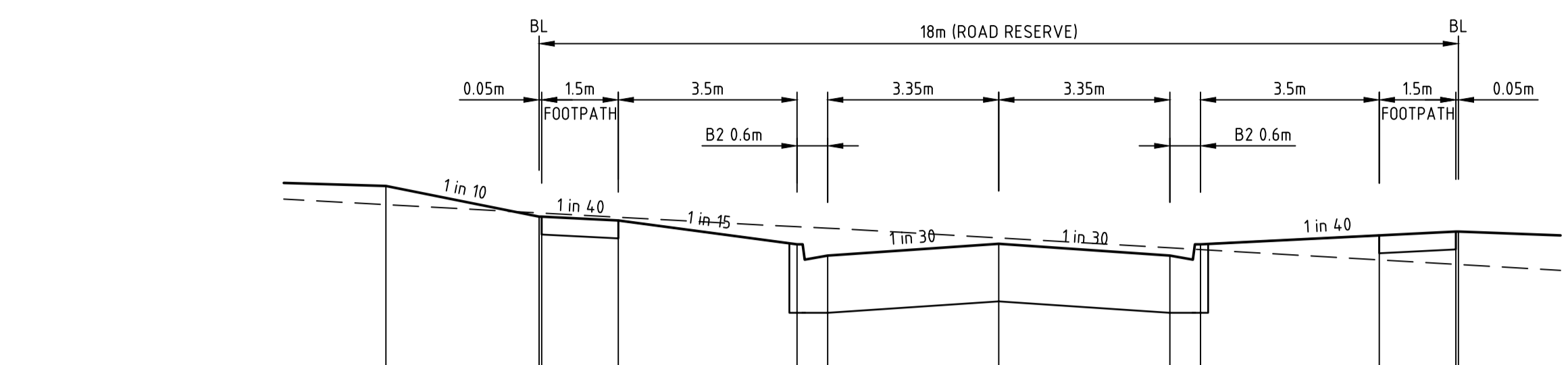
16 BRIDGE STREET BENDIGO
 VICTORIA 3550 AUSTRALIA T 61 3 5448 2500
 spiire.com.au ABN 55 050 029 635

Designed S.WOOD	Checked B.IBBS
Authorised A.WILKIE	Date 1/4/22

CONROY'S GREEN
STAGE 9
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 4
 BALLARAT CITY COUNCIL
 SAN HUBERTO PROPERTIES P/L

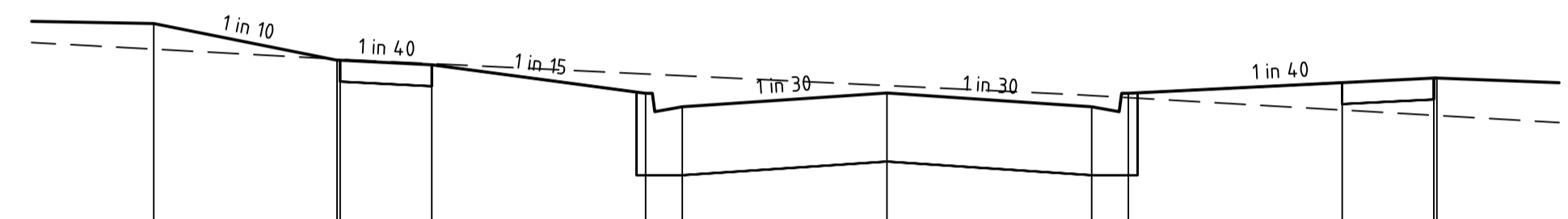
PRELIMINARY Dwg No **309954CR403** Rev **A**

file name: 309954CR404.dwg, layout name: CR404, plotted by: Stephen Wood, file location: G:\309954\CR404\PLANT\CR404.dwg, plot date: 19/04/2022, 3:58 PM, Sheet 11 of 18 Sheets



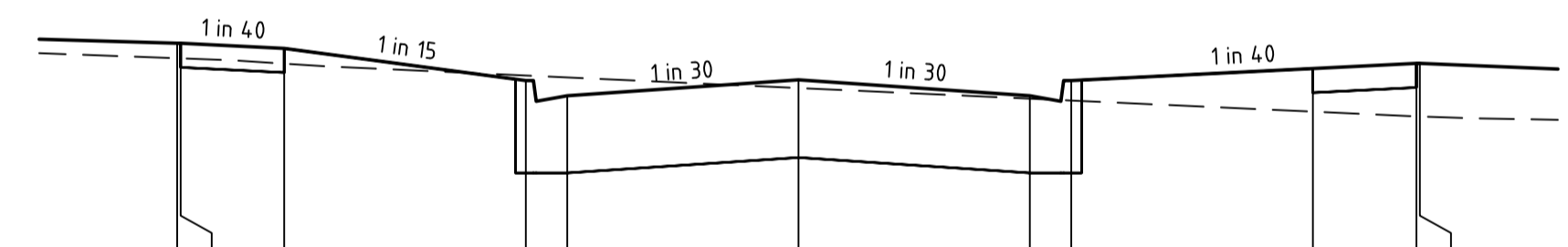
DATUM R.L. 427.0	
DESIGN SURFACE LEVEL	-12.000 428.951 429.133
EXISTING SURFACE LEVEL	-9.000 428.870 428.833 -8.950 428.868 428.833 -7.450 428.828 428.796
OFFSET	

SKYLARK DRIVE CH 154.60



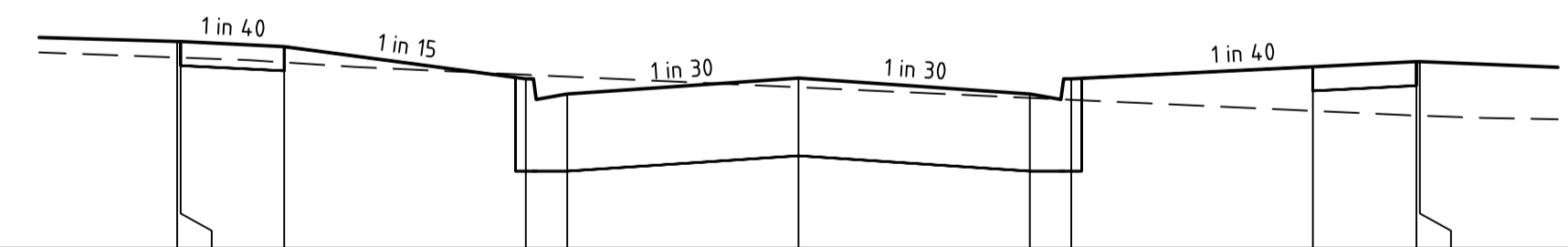
DATUM R.L. 427.0	
DESIGN SURFACE LEVEL	-12.000 428.736 428.946
EXISTING SURFACE LEVEL	-9.000 428.655 428.646 -8.950 428.654 428.646 -7.450 428.617 428.608
OFFSET	

SKYLARK DRIVE CH 140.60



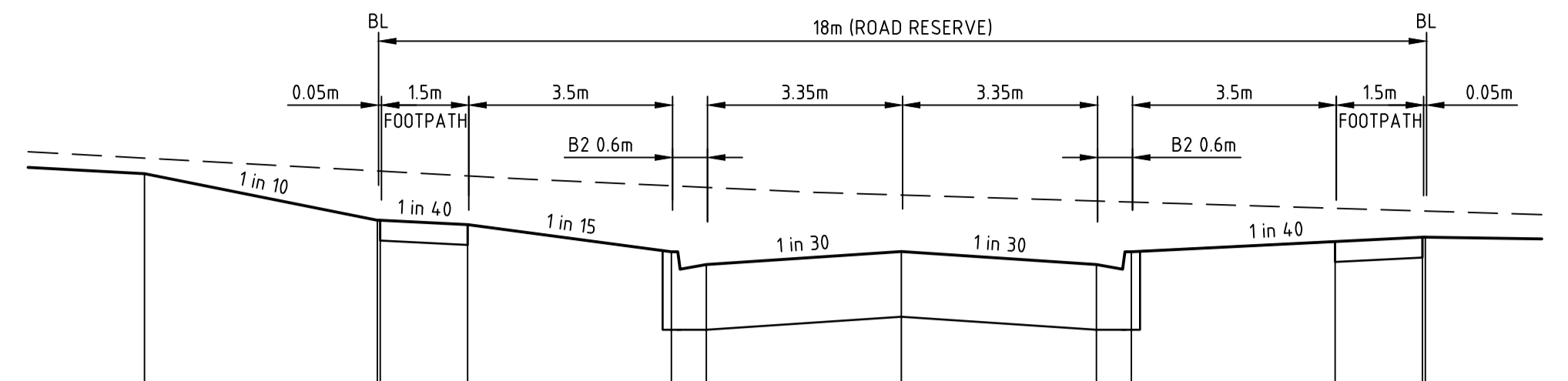
DATUM R.L. 427.0	
DESIGN SURFACE LEVEL	-9.000 428.392 428.501
EXISTING SURFACE LEVEL	-8.950 428.391 428.501 -7.450 428.353 428.463
OFFSET	

SKYLARK DRIVE CH 124.60



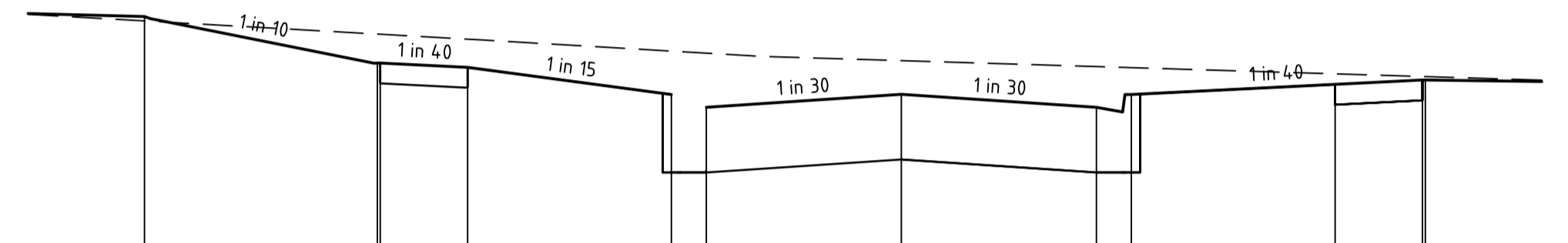
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DESIGN SURFACE LEVEL	-9.000 428.381 428.498
EXISTING SURFACE LEVEL	-8.950 428.381 428.498 -7.450 428.346 428.460
OFFSET	

SKYLARK DRIVE CH 124.10



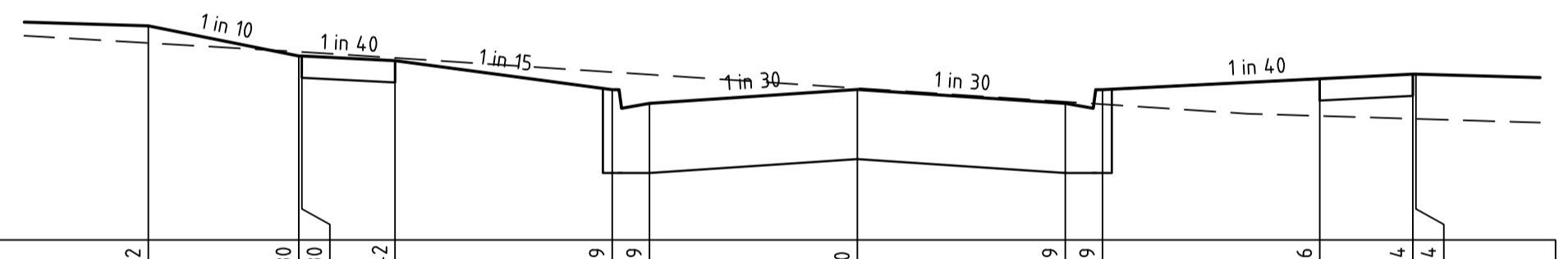
DATUM R.L. 428.0	
DESIGN SURFACE LEVEL	-13.000 430.536 430.403
EXISTING SURFACE LEVEL	-9.000 430.426 430.003 -8.950 430.425 430.003 -7.450 430.383 429.965
OFFSET	

SKYLARK DRIVE CH 230.44



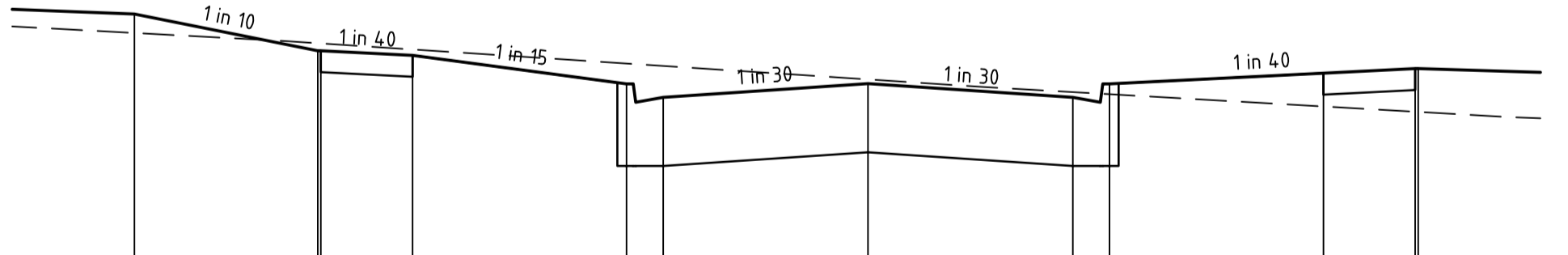
DATUM R.L. 428.0	
DESIGN SURFACE LEVEL	-13.000 430.295 430.333
EXISTING SURFACE LEVEL	-9.000 430.182 429.933 -8.950 430.180 429.933 -7.450 430.138 429.895
OFFSET	

SKYLARK DRIVE CH 219.94



DATUM R.L. 428.0	
DESIGN SURFACE LEVEL	-11.424 429.584 429.722
EXISTING SURFACE LEVEL	-9.000 429.513 429.480 -8.950 429.512 429.480 -7.450 429.444 429.442
OFFSET	

SKYLARK DRIVE CH 187.10



DATUM R.L. 427.0	
DESIGN SURFACE LEVEL	-12.000 429.263 429.418
EXISTING SURFACE LEVEL	-9.000 429.180 429.118 -8.950 429.178 429.118 -7.450 429.129 429.081
OFFSET	

SKYLARK DRIVE CH 170.60

Scale

H 1:100
SCALE @ A1
V 1:50

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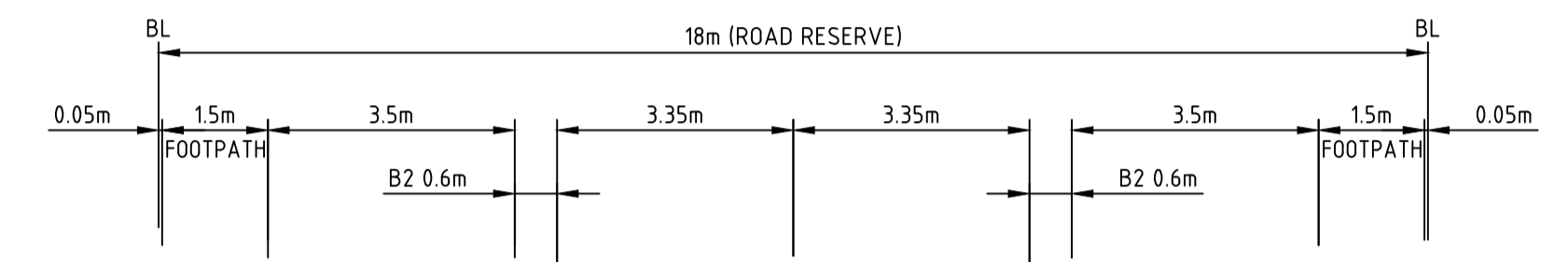
16 BRIDGE STREET BENDIGO
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Designed S.WOOD	Checked B.IBBS
Authorised A.WILKIE	Date 1/4/22

CONROY'S GREEN
STAGE 9
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 5
 BALLARAT CITY COUNCIL
 SAN HUBERTO PROPERTIES P/L

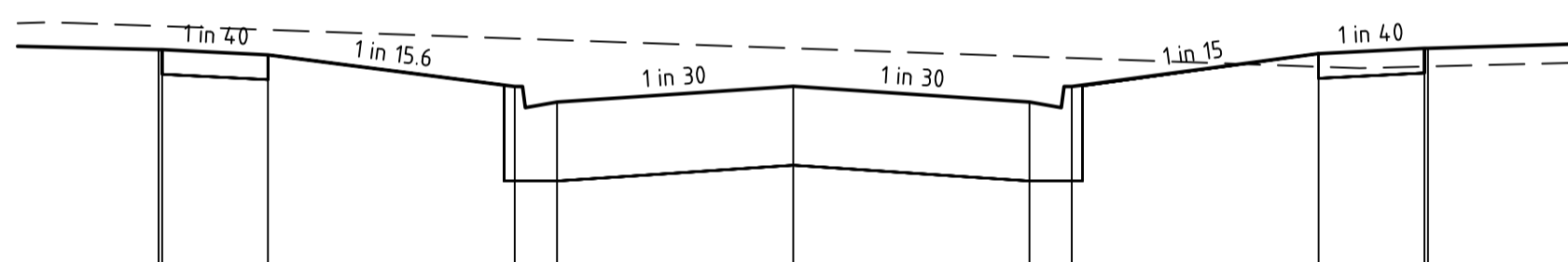
PRELIMINARY Drg No 309954CR404 Rev A

file name: 309954CR405.dwg, layout: name: CR405, plot date: 19/04/2022 3:58 PM, Sheet 12 of 18 Sheets



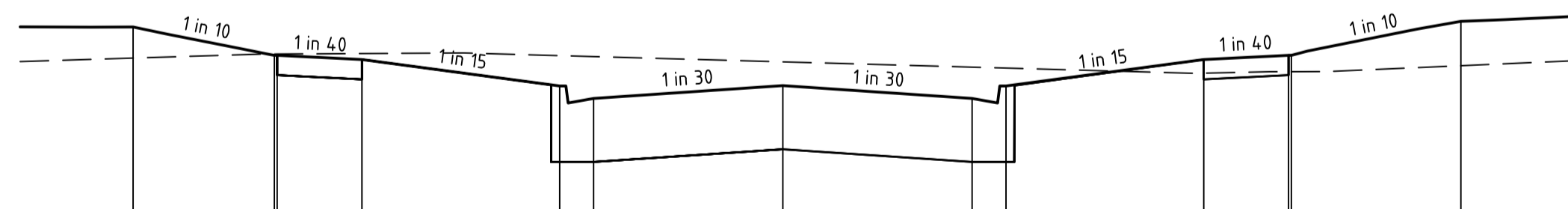
DATUM R.L. 427.0	
DESIGN SURFACE LEVEL	428.760 428.760 428.723 428.626 428.516 428.628 428.714 428.751
EXISTING SURFACE LEVEL	428.804 428.804 428.786 428.716 428.739 428.628 428.633 428.751
OFFSET	-9.000 -8.950 -7.450 -3.950 -3.350 0.000 3.350 3.950 7.450 8.950 9.000

WREN WAY CH 40.00



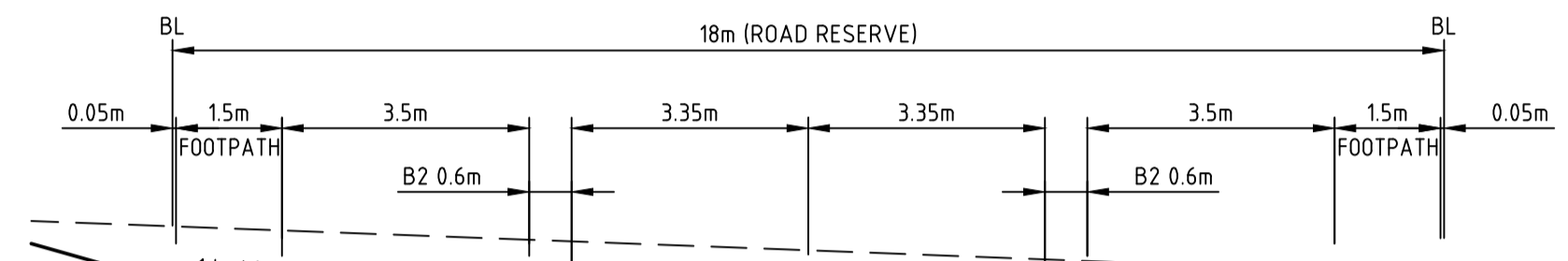
DATUM R.L. 426.0	
DESIGN SURFACE LEVEL	428.328 428.328 428.291 428.066 428.066 428.300 428.337 428.337
EXISTING SURFACE LEVEL	428.495 428.494 428.468 428.407 428.396 428.337 428.209 428.337
OFFSET	-9.000 -8.950 -7.450 -3.950 -3.350 0.000 3.350 3.950 7.450 8.950 9.000

WREN WAY CH 26.00



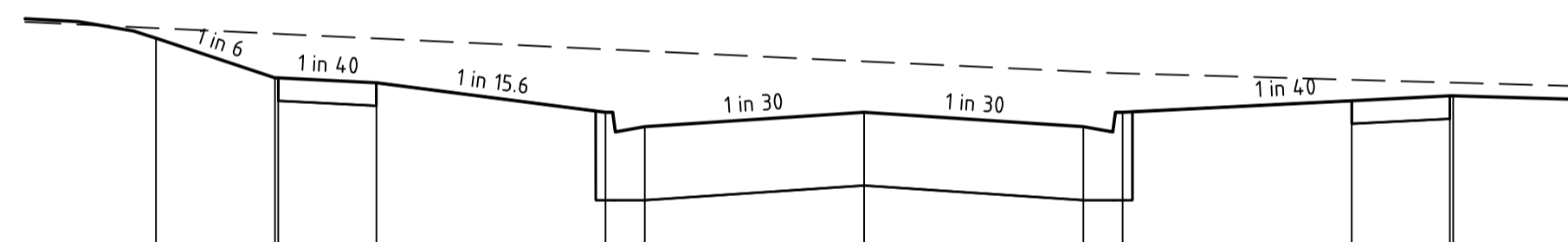
DATUM R.L. 426.0	
DESIGN SURFACE LEVEL	428.230 427.980 427.980 427.943 427.710 427.710 427.823 427.943 427.980 427.980 428.280
EXISTING SURFACE LEVEL	427.956 427.992 427.992 427.996 427.969 427.969 427.836 427.980 427.836 427.980 427.889
OFFSET	-11.500 -9.000 -8.950 -7.450 -3.950 -3.350 0.000 3.350 3.950 7.450 8.950 9.000 12.000

WREN WAY CH 11.95



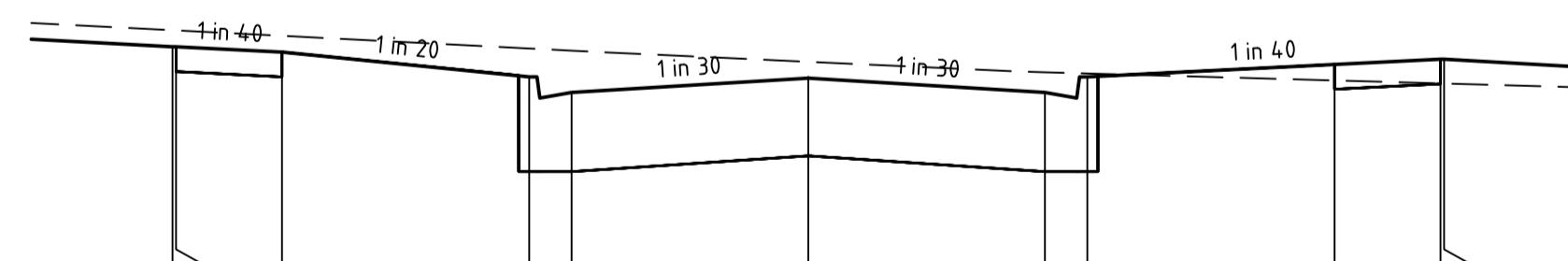
DATUM R.L. 428.0	
DESIGN SURFACE LEVEL	429.804 429.767 429.534 429.424 429.491 429.379 429.489 429.516 429.614 429.614
EXISTING SURFACE LEVEL	430.209 430.209 430.180 430.114 430.103 430.039 429.975 429.963 429.890 429.857 429.856
OFFSET	-9.000 -8.950 -7.450 -3.950 -3.350 0.000 3.350 3.950 7.450 8.950 9.000

STORK STREET CH 199.08



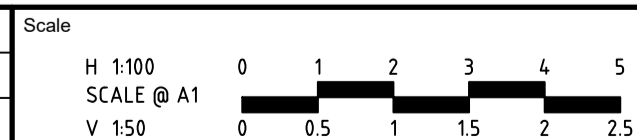
DATUM R.L. 428.0	
DESIGN SURFACE LEVEL	430.519 430.216 430.216 430.179 429.954 429.844 429.956 429.844 430.042 430.079 430.079
EXISTING SURFACE LEVEL	430.596 430.553 430.552 430.517 430.435 430.420 430.342 430.263 430.251 430.181 430.180
OFFSET	-10.800 -9.000 -8.950 -7.450 -3.950 -3.350 0.000 3.350 3.950 7.450 8.950 9.000

STORK STREET CH 185.03



DATUM R.L. 429.0	
DESIGN SURFACE LEVEL	430.682 430.682 430.644 430.469 430.359 430.471 430.359 430.469 430.557 430.594 430.594
EXISTING SURFACE LEVEL	430.799 430.798 430.759 430.670 430.654 430.516 430.502 430.493 430.444 430.423 430.422
OFFSET	-9.000 -8.950 -7.450 -3.950 -3.350 0.000 3.350 3.950 7.450 8.950 9.000

STORK STREET CH 174.03



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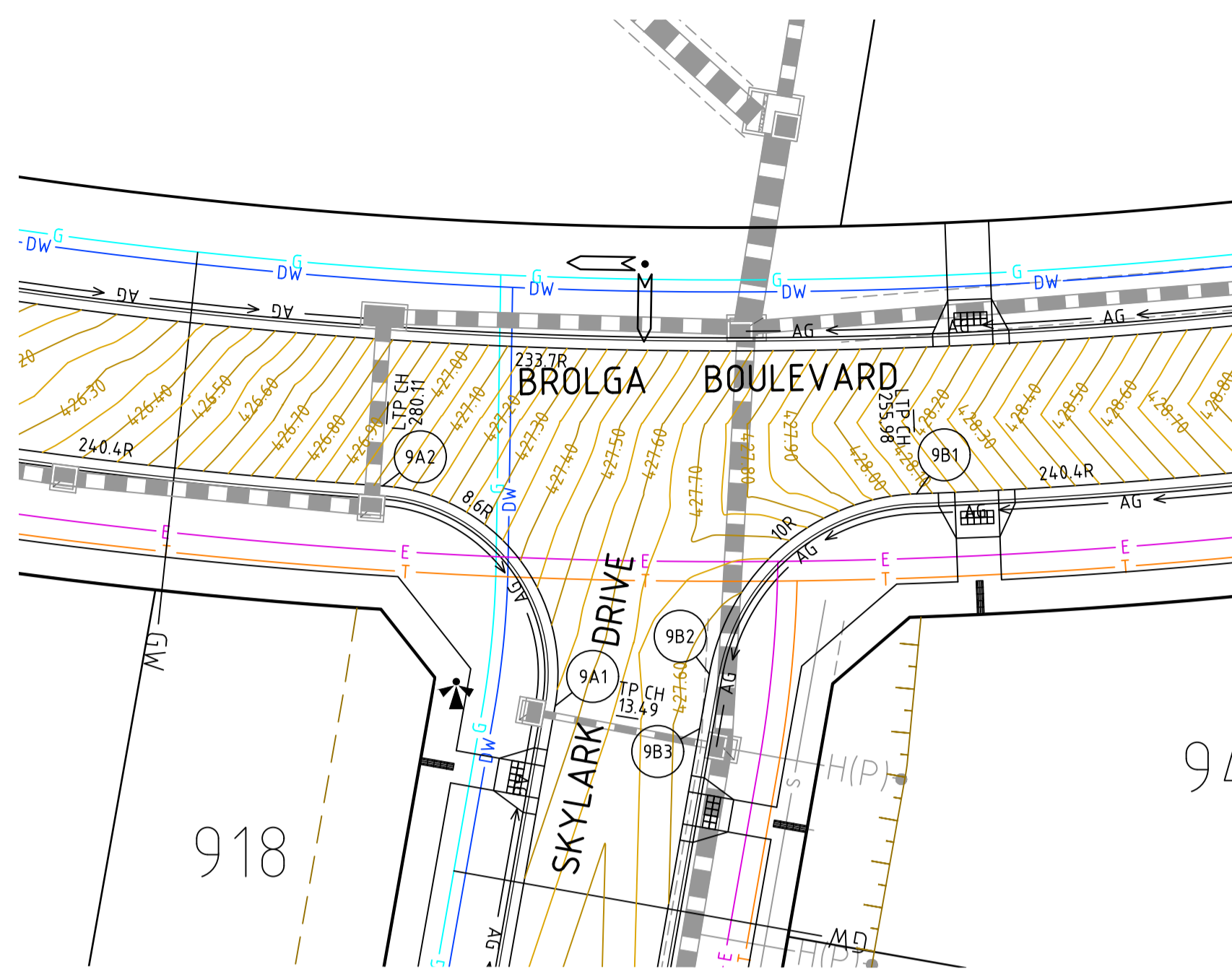
Designed
S.WOOD
 Authorised
A.WILKIE

Checked
B.IBBS
 Date
 1/4/22

CONROY'S GREEN
STAGE 9
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - SHEET 6
 BALLARAT CITY COUNCIL
 SAN HUBERTO PROPERTIES P/L

PRELIMINARY Dwg No **309954CR405** Rev **A**

Rev	Description	AW	Date
A	PRELIMINARY ISSUE	AW	17/03/22
	Amendments	Approved	Date

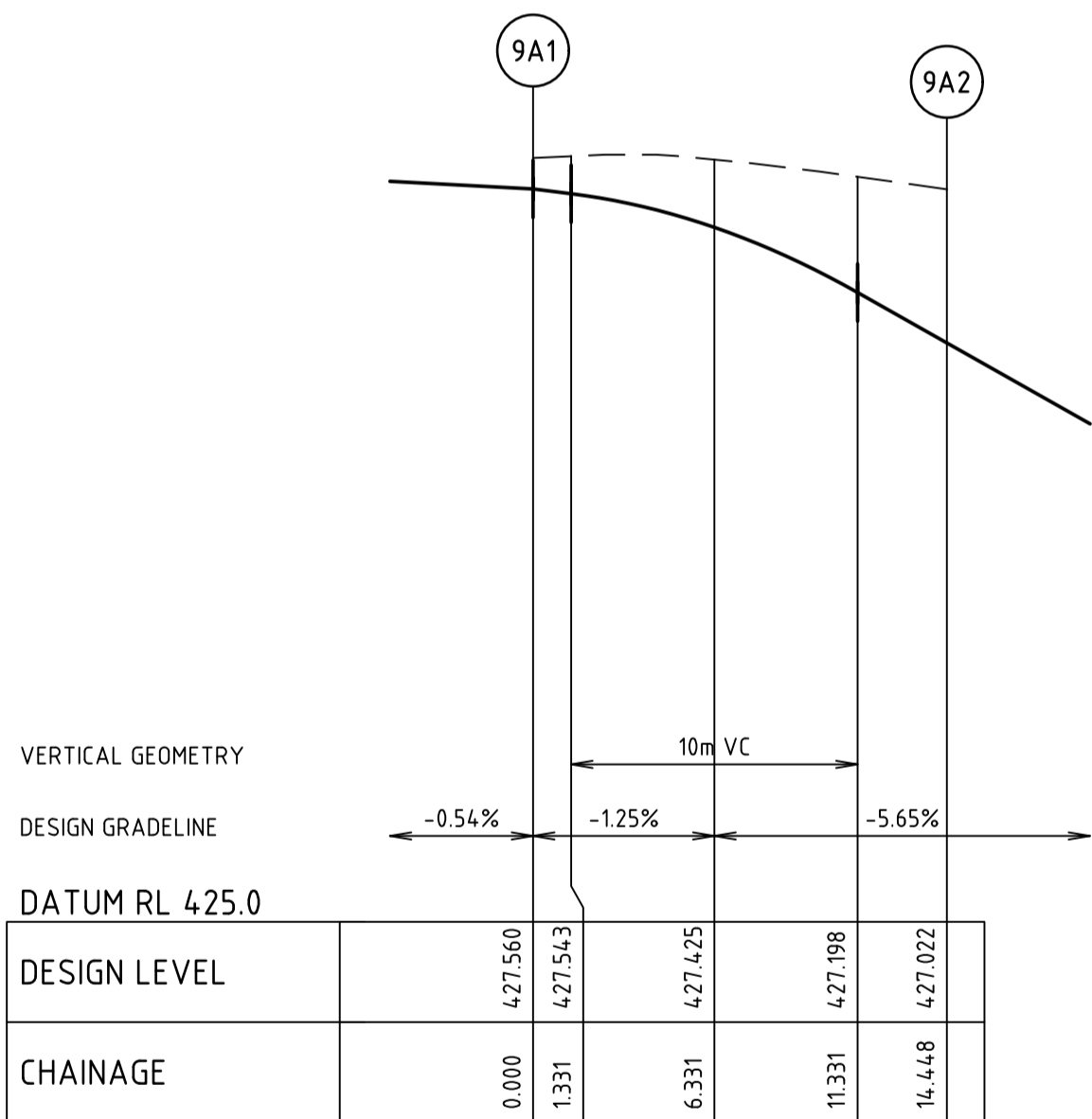


BROLGA BOULEVARD & SKYLARK DRIVE
KERB RETURN 9A & 9B

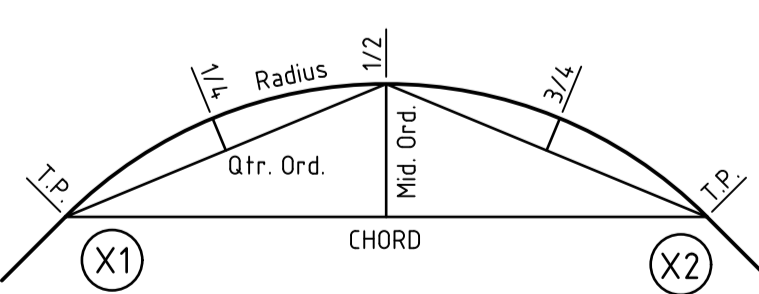
ALIGNMENT 9A

POINT NO	EASTING	NORTHING	RL	CHAINAGE
9A1	745727.363	5837680.782	427.560	0.000
¼	745727.237	5837684.365	427.503	3.612
½	745725.661	5837687.585	427.393	7.224
¾	745722.909	5837689.984	427.225	10.836
9A2	745719.459	5837690.860	427.022	14.448

Curve no	l	Radius	Arc	Mid Ord	Qtr Ord	X	Y	l	Mid Ord RL
9A12	-96.258	8.600	14.448	2.860	2.112	2.897	3.507	3.612	427.393



ALIGNMENT 9A

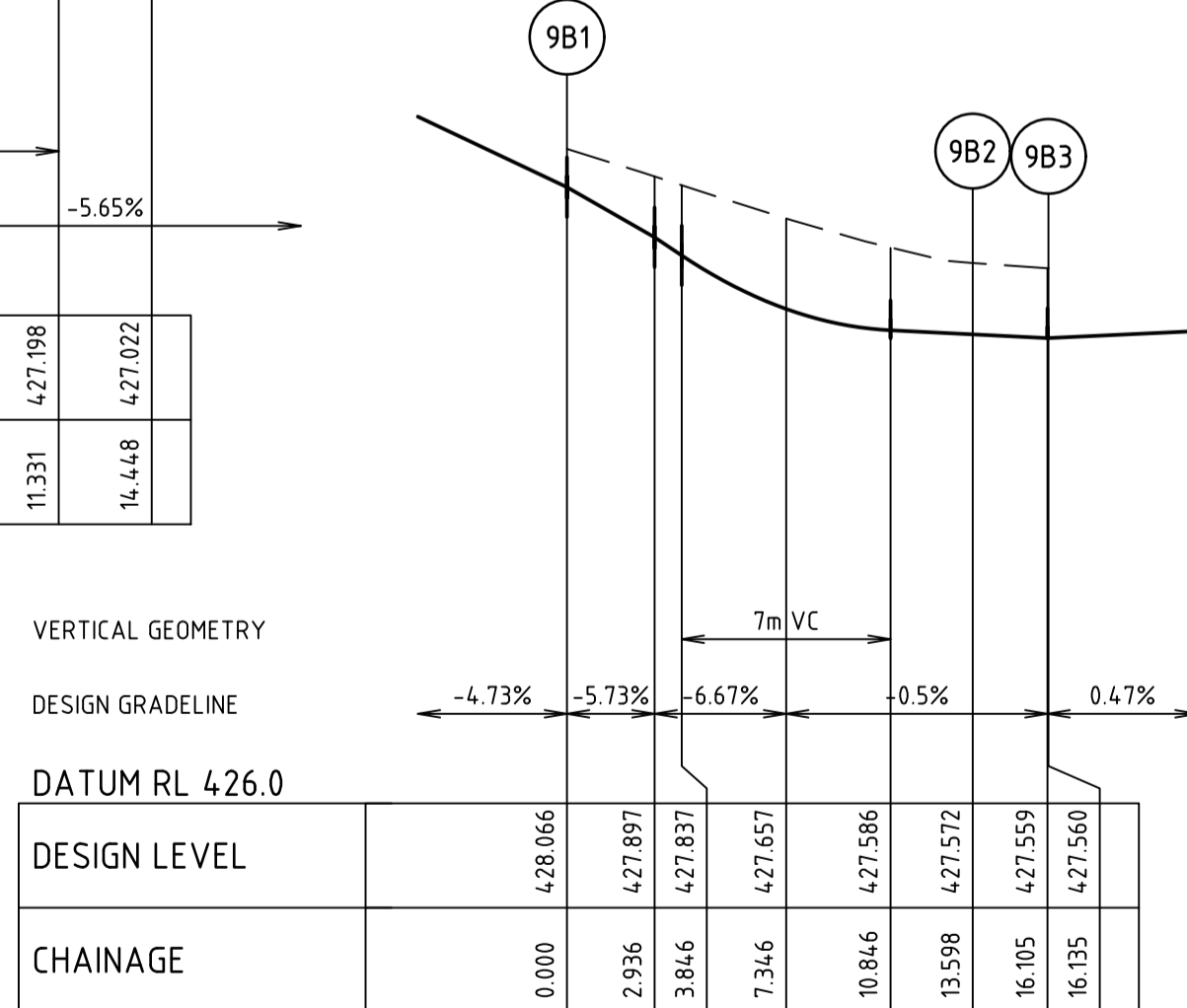


KERB RETURN SETOUT DETAIL

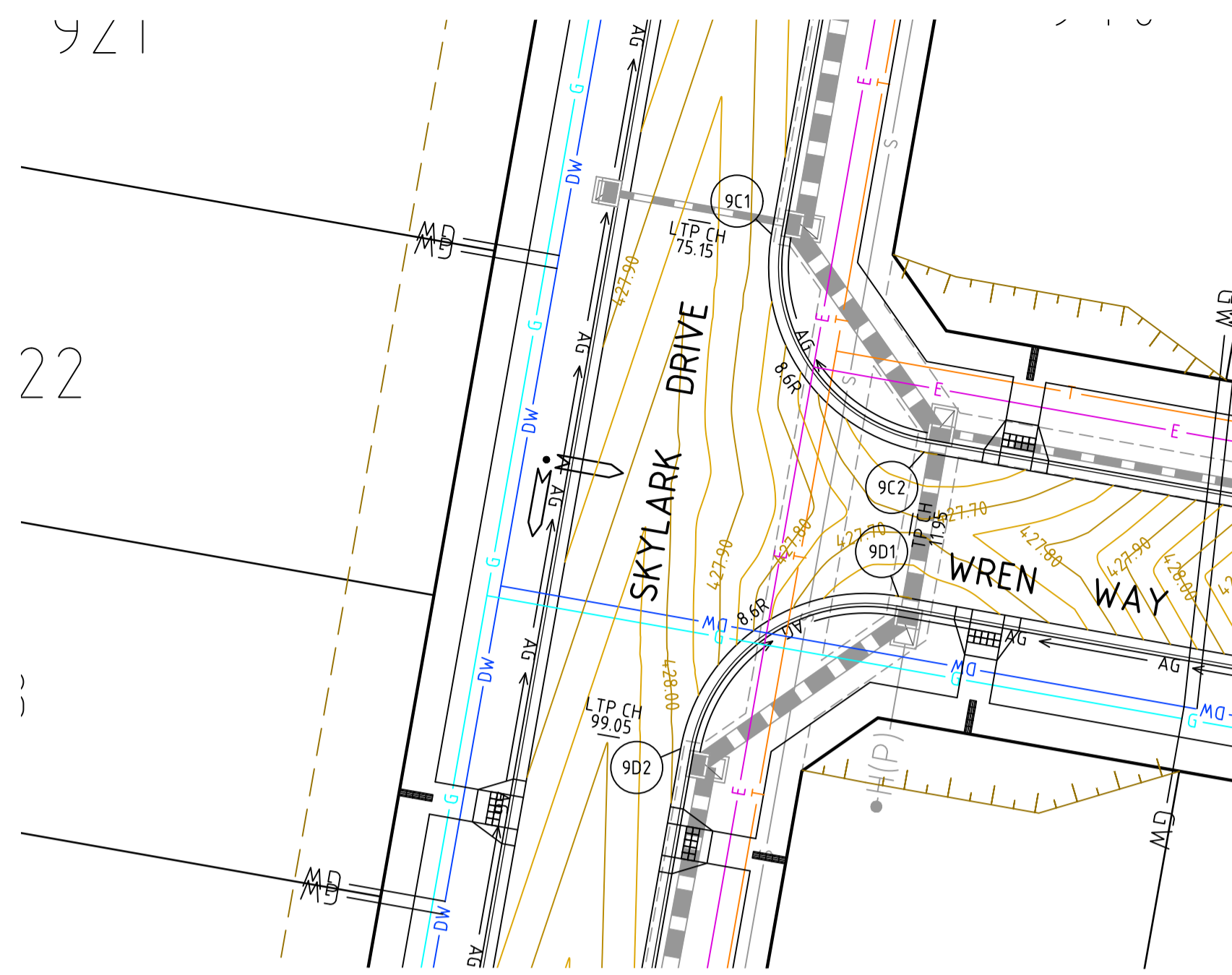
ALIGNMENT 9B

POINT NO	EASTING	NORTHING	RL	CHAINAGE
9B1	745743.912	5837690.498	428.065	0.000
¼	745740.601	5837689.805	427.866	3.399
½	745737.709	5837688.049	427.678	6.799
¾	745735.569	5837685.428	427.591	10.198
9B2	745734.426	5837682.244	427.572	13.598
9B3	745733.984	5837679.746	427.560	16.135

Curve no	l	Radius	Arc	Mid Ord	Qtr Ord	X	Y	l	Mid Ord RL
9B12	-77.910	10.000	3.598	2.224	1.651	2.953	3.334	3.399	427.678



ALIGNMENT 9B

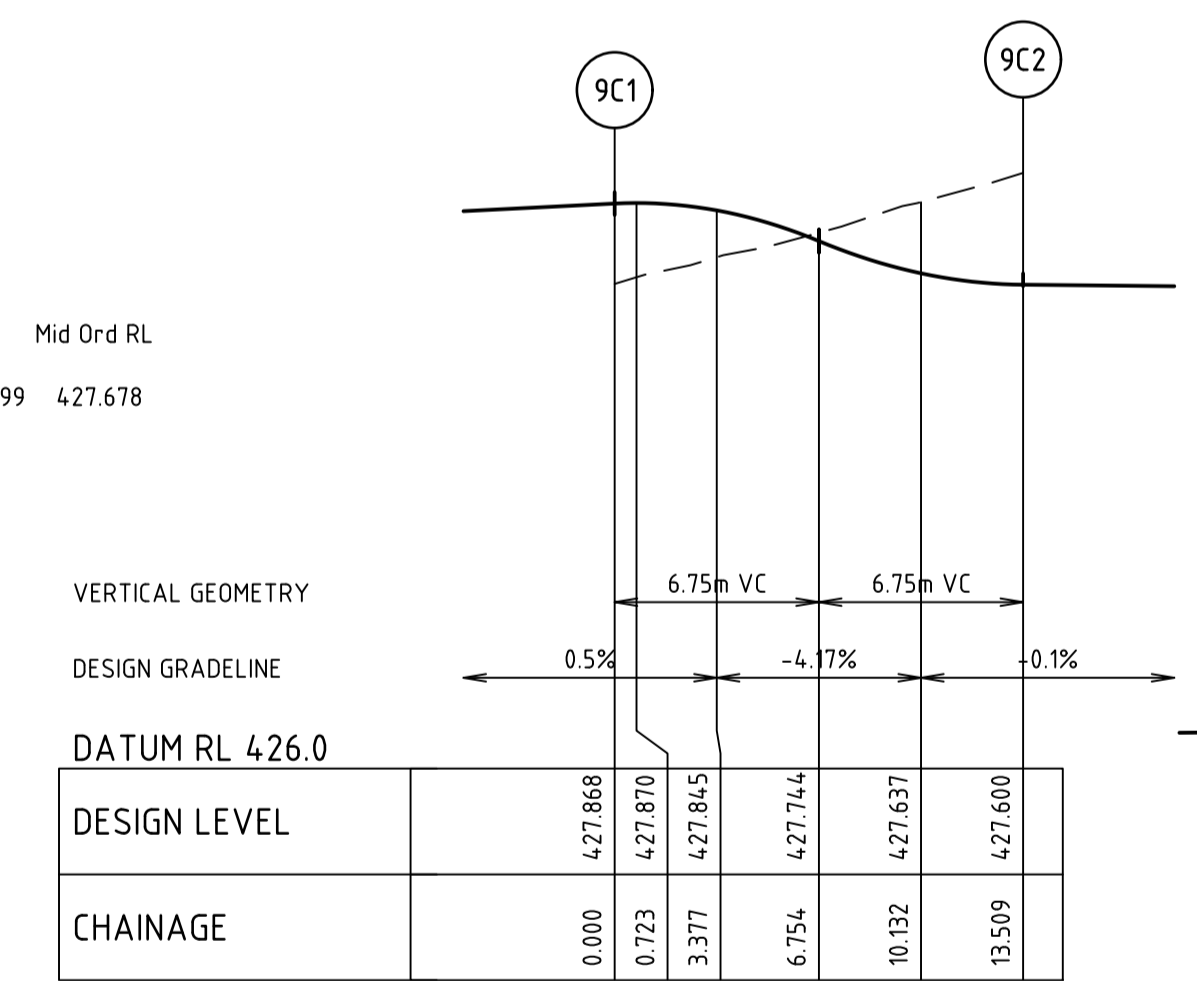


WREN WAY & SKYLARK DRIVE
KERB RETURN 9C & 9D

ALIGNMENT 9C

POINT NO	EASTING	NORTHING	RL	CHAINAGE
9C1	745723.242	5837618.962	427.868	0.000
¼	745723.314	5837615.607	427.845	3.377
½	745724.664	5837612.535	427.744	6.754
¾	745727.087	5837610.214	427.637	10.132
9C2	745730.214	5837608.997	427.600	13.509

Curve no	l	Radius	Arc	Mid Ord	Qtr Ord	X	Y	l	Mid Ord RL
9C12	-90.000	8.600	3.509	2.519	1.864	2.790	3.291	3.377	427.744



ALIGNMENT 9C

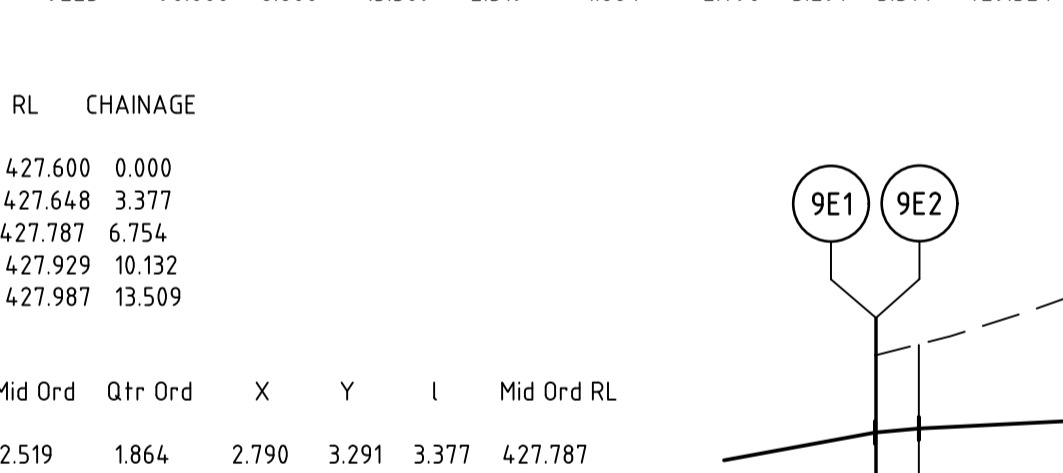


ALIGNMENT 9D

ALIGNMENT 9E

POINT NO	EASTING	NORTHING	RL	CHAINAGE
9E1	745702.221	5837500.015	429.284	0.000
9E2	745702.212	5837499.966	429.285	0.050
¼	745702.284	5837496.611	429.307	3.427
½	745703.634	5837493.539	429.324	6.804
¾	745706.057	5837491.218	429.343	10.182
9E3	745709.184	5837490.011	429.379	13.559

Curve no	l	Radius	Arc	Mid Ord	Qtr Ord	X	Y	l	Mid Ord RL
9E23	-90.000	8.600	13.509	2.519	1.864	2.790	3.291	3.377	429.324



ALIGNMENT 9E

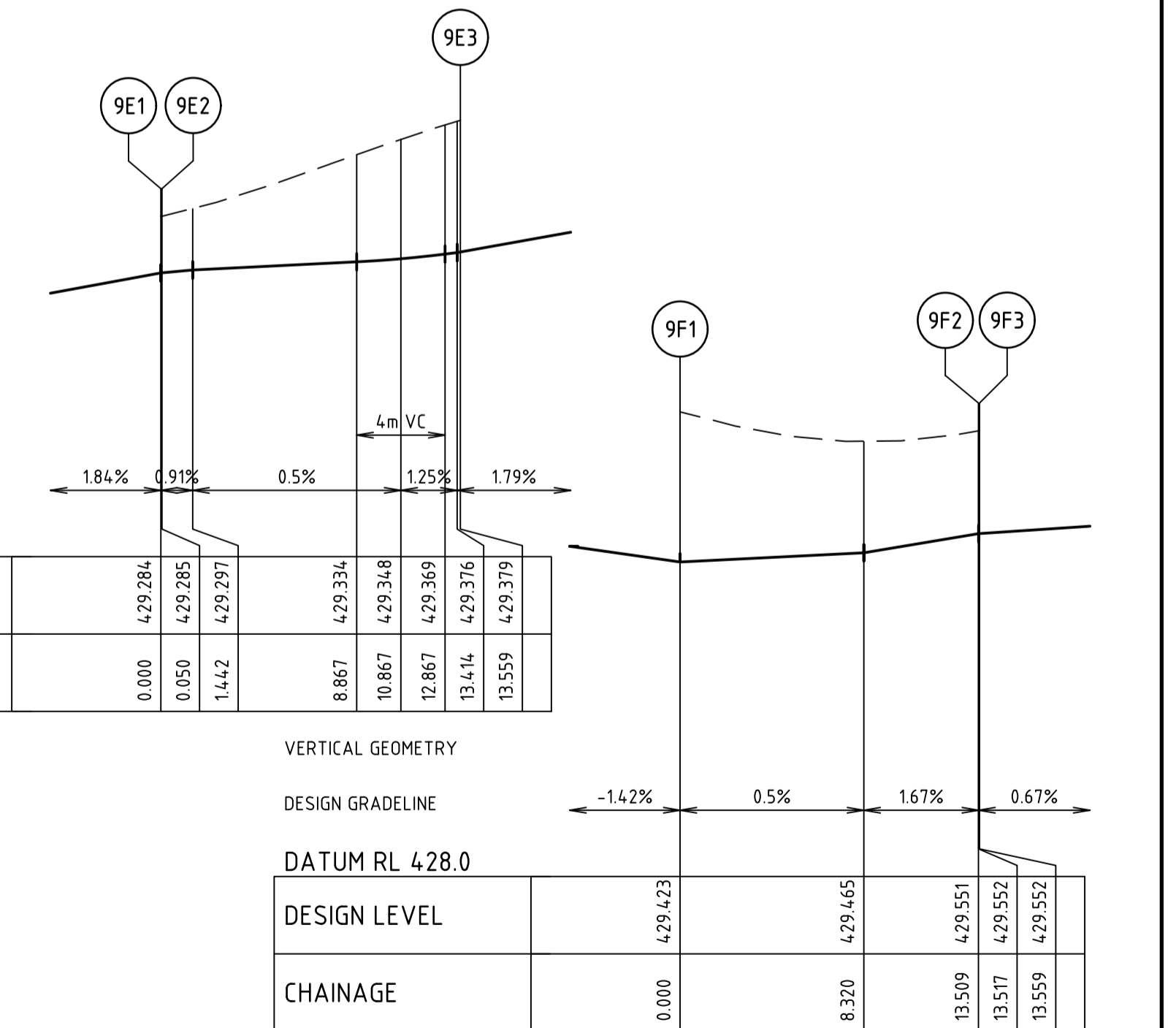


ALIGNMENT 9F

ALIGNMENT 9F

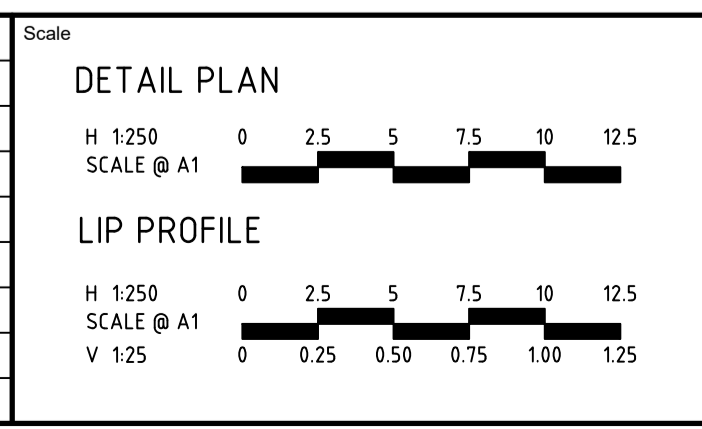
POINT NO	EASTING	NORTHING	RL	CHAINAGE
9F1	745708.018	5837483.403	429.423	0.000
¼	745704.663	5837483.331	429.440	3.377
½	745701.591	5837481.981	429.457	6.754
¾	745699.270	5837479.558	429.495	10.132
9F2	745698.053	5837476.431	429.551	13.509
9F3	745698.044	5837476.381	429.552	13.559

Curve no	l	Radius	Arc	Mid Ord	Qtr Ord	X	Y	l	Mid Ord RL
9F12	-90.000	8.600	13.509	2.519	1.864	2.790	3.291	3.377	429.457



file name: 309954CR500.dwg, layout name: CR500, plot date: 19/04/2022 3:59 PM, sheet 13 of 18 sheets

Rev	Description	AW	Date
A	PRELIMINARY ISSUE	AW	17/03/22
Rev	Amendments	Approved	Date

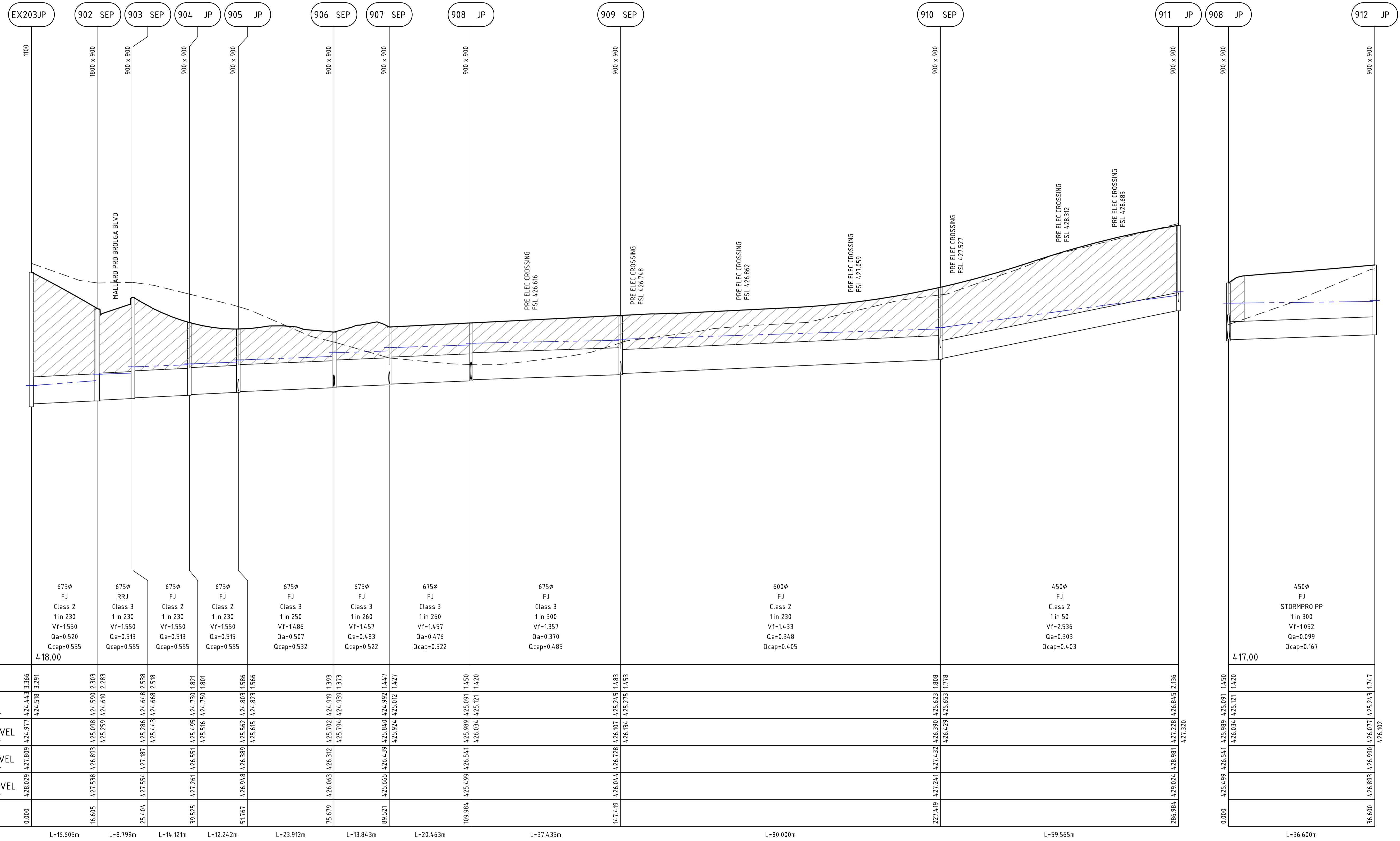


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Authorised A.WILKIE	Date 1/4/22

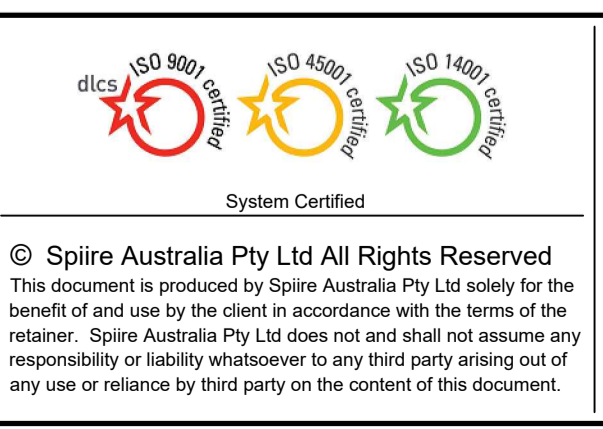
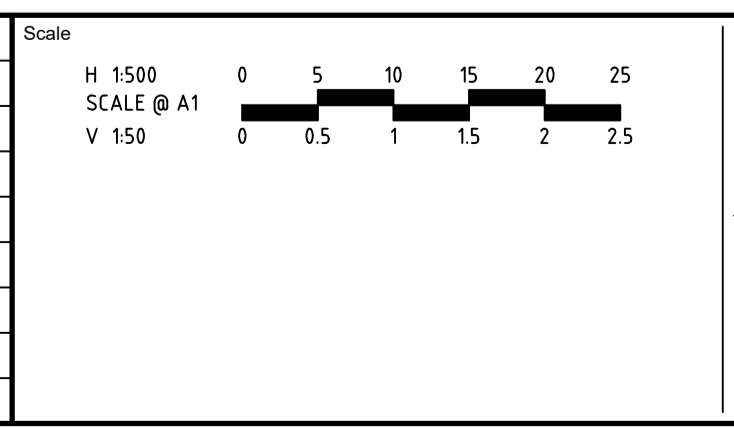
CONROY'S GREEN
STAGE 9
ROAD AND DRAINAGE
INTERSECTION DETAILS - SHEET 1
BALLARAT CITY COUNCIL
SAN HUBERTO PROPERTIES P/L

PRELIMINARY Dwg No **309954CR500** Rev **A**



file name: 309954CR600.dwg, layout name: CR600, plotted by: Shreema Vaid, file location: G:\309954\Level\CAD\plot\cde_19/04/2022_3:58 PM Sheet_14 of 18 Sheets

Rev	Description	AW	Date
A	PRELIMINARY ISSUE	AW	17/03/22
Rev	Amendments	Approved	Date

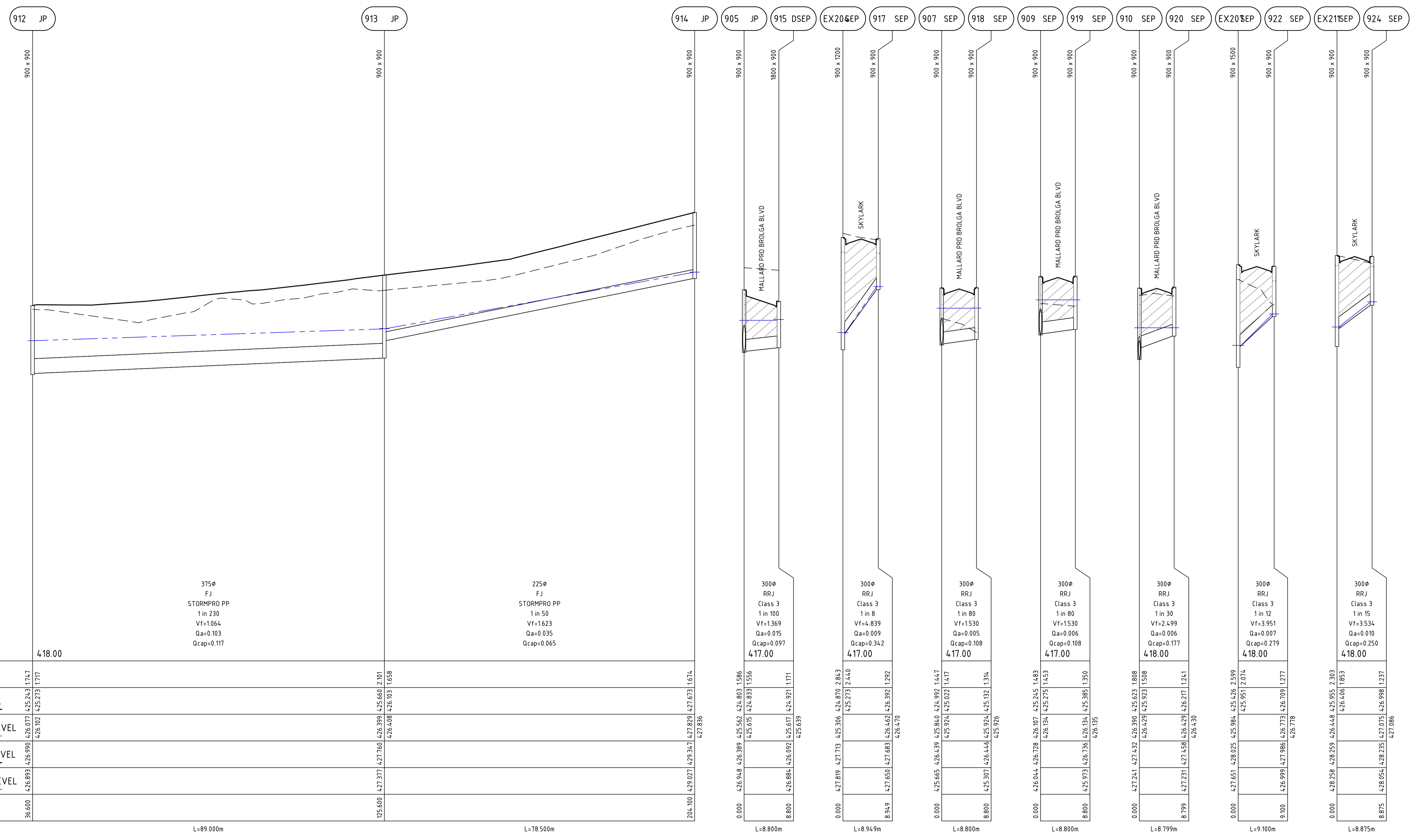


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Authorised A.WILKIE	Date 1/4/22

CONROY'S GREEN
STAGE 9
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 1
 BALLARAT CITY COUNCIL
 SAN HUBERTO PROPERTIES P/L
PRELIMINARY Drg No **309954CR600** Rev **A**

file name: 309954CR601.dwg, Location: Home, CR601, Project: San Huberto, Plot: 15 of 18 Sheets, Date: 19/04/2022, 3:59 PM

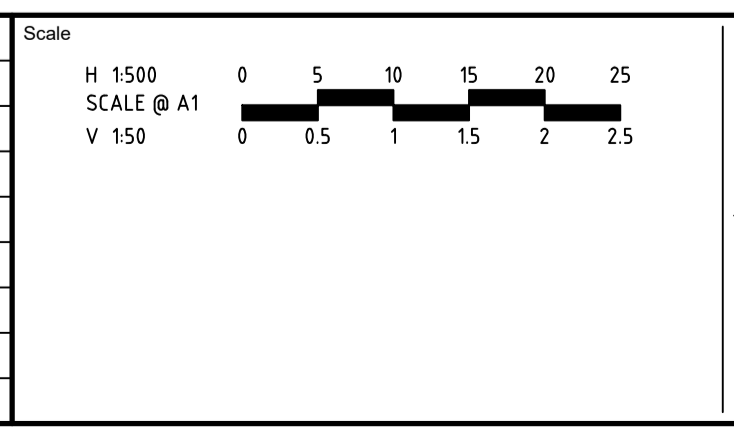


Pipe Diameter	375φ	225φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ
Joint Type	FJ	FJ	RRJ	RRJ	RRJ	RRJ	RRJ	RRJ	RRJ	RRJ	RRJ
Pipe Class	STORMPRO PP	STORMPRO PP	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3
Pipe Grade	1 in 230	1 in 50	1 in 100	1 in 8	1 in 80	1 in 80	1 in 80	1 in 30	1 in 12	1 in 15	1 in 15
Velocity (m/s)	Vf=1.064	Vf=16.23	Vf=1.369	Vf=4.839	Vf=1.530	Vf=1.530	Vf=1.530	Vf=2.499	Vf=3.951	Vf=3.534	Vf=3.534
Pipe Flow (m3/s)	Qa=0.103	Qa=0.035	Qa=0.015	Qa=0.009	Qa=0.005	Qa=0.005	Qa=0.006	Qa=0.006	Qa=0.007	Qa=0.010	Qa=0.010
Pipe Capacity (m3/s)	Qcap=0.117	Qcap=0.065	Qcap=0.097	Qcap=0.342	Qcap=0.108	Qcap=0.108	Qcap=0.108	Qcap=0.177	Qcap=0.279	Qcap=0.250	Qcap=0.250
DATUM R.L.	418.00		417.00	417.00	417.00	417.00	417.00	418.00	418.00	418.00	418.00

DEPTH TO INVERT	1174.7	1674	1586	1586	1447	1447	1447	1508	1808	2074	1237
DESIGN INVERT LEVEL	425.243	425.660	425.660	425.660	425.022	425.022	425.022	425.923	425.923	425.951	425.951
HYDRAULIC GRADE LEVEL	426.102	426.103	426.103	426.103	426.462	426.462	426.462	426.134	426.134	426.135	426.135
FINISHED SURFACE LEVEL	426.990	427.760	427.829	427.829	427.683	427.683	427.683	427.458	427.458	427.458	427.458
EXISTING SURFACE LEVEL	426.893	429.347	429.347	429.347	427.683	427.683	427.683	426.429	426.429	426.429	426.429
CHAINAGE	36.600	125.600	204.100	204.100	8.949	8.949	8.949	8.800	8.800	9.100	8.875

L=89.000m L=78.500m L=8.800m L=8.949m L=8.800m L=8.800m L=8.799m L=9.100m L=8.875m

Scale	H 1:500	V 1:50
Scale @ A1	0 5 10 15 20 25	0 0.5 1 1.5 2 2.5
Rev	A PRELIMINARY ISSUE	AW 17/03/22
Rev	Amendments	Approved Date



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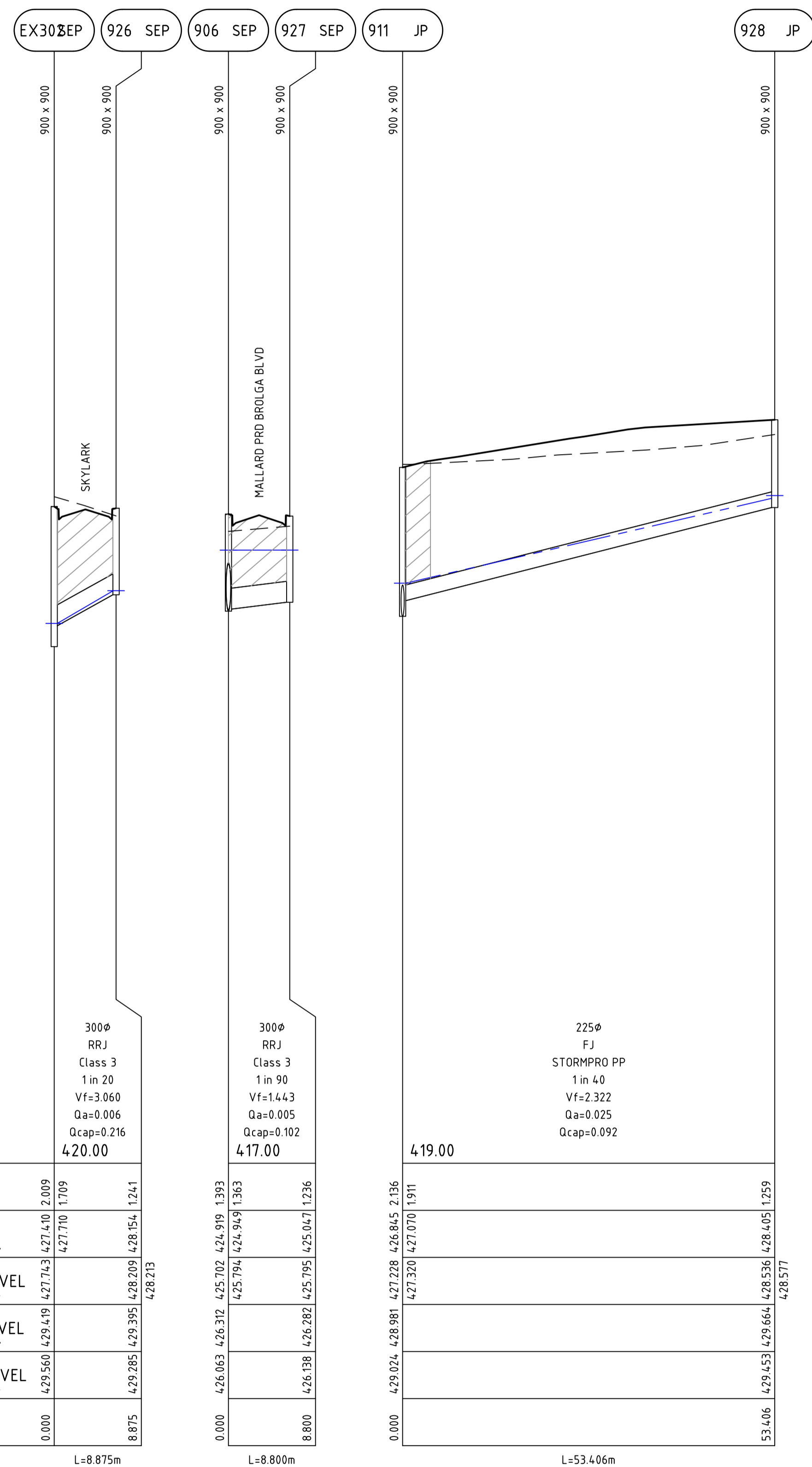
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Authorised	A.WILKIE	Date	1/4/22

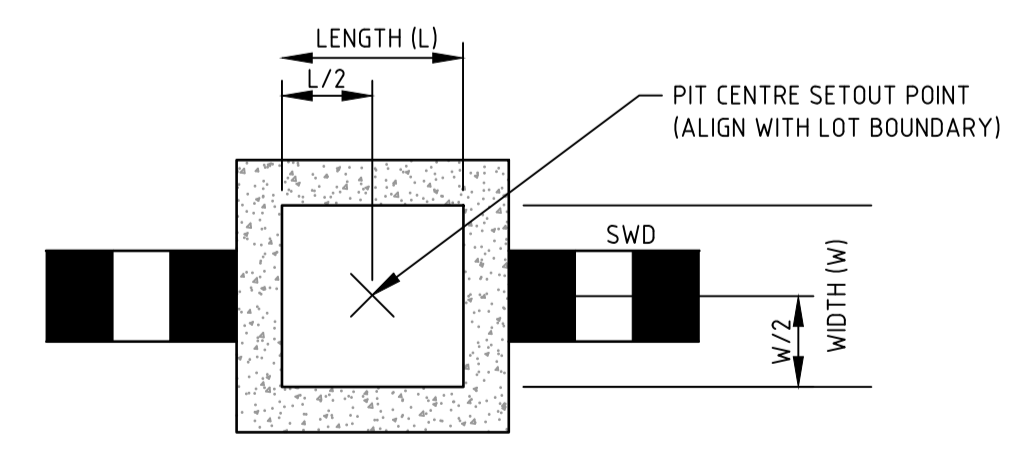
CONROY'S GREEN
STAGE 9
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 2
 BALLARAT CITY COUNCIL
 SAN HUBERTO PROPERTIES P/L

Drg No: **309954CR601** Rev: **A**

PRELIMINARY



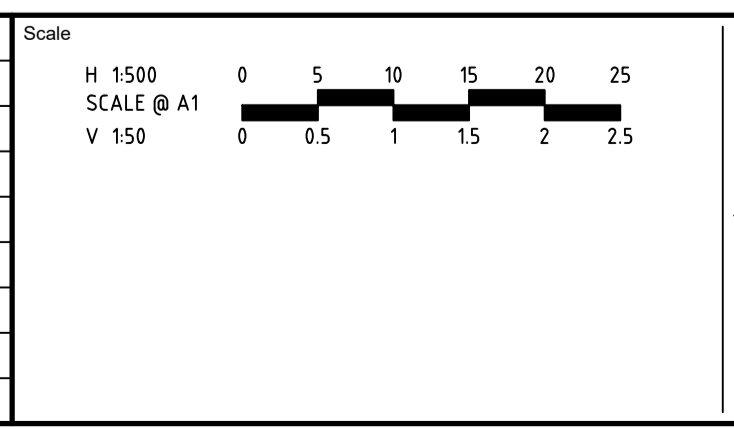
PIT NAME	TYPE	INTERNAL WIDTH	LENGTH	INLET DIA	INV LEVEL	OUTLET DIA	INV LEVEL	PIT FS LEVEL	DEPTH	REMARKS	STEP IRON	LADDER
902	DOUBLE SIDE ENTRY PIT	1.8	0.9	675	424.61	675	424.59	426.893	2.303	REFER TO COB SD-P2-2	X	
903	SIDE ENTRY PIT	0.9	0.9	675	424.668	675	424.648	427.187	2.538	REFER TO COB SD-P1-2	X	
904	JUNCTION PIT	0.9	0.9	675	424.75	675	424.73	426.551	1.821	REFER TO COB SD-P10-2	X	
905	JUNCTION PIT	0.9	0.9	675	424.823	675	424.803	426.389	1.586	REFER TO COB SD-P10-2	X	
905	JUNCTION PIT	0.9	0.9	300	424.833			426.389	1.586	REFER TO COB SD-P10-2	X	
906	SIDE ENTRY PIT	0.9	0.9	675	424.939	675	424.919	426.312	1.393	REFER TO COB SD-P1-2	X	
				300	424.949							
907	SIDE ENTRY PIT	0.9	0.9	675	425.012	675	424.992	426.439	1.447	REFER TO COB SD-P1-2	X	
				300	425.022							
908	JUNCTION PIT	0.9	0.9	675	425.121	675	425.091	426.541	1.45	REFER TO COB SD-P10-2	X	
				450	425.121							
909	SIDE ENTRY PIT	0.9	0.9	600	425.275	675	425.245	426.728	1.483	REFER TO COB SD-P1-2	X	
				300	425.275							
910	SIDE ENTRY PIT	0.9	0.9	450	425.653	600	425.623	427.432	1.808	REFER TO COB SD-P1-2	X	
				300	425.923							
911	JUNCTION PIT	0.9	0.9			450	426.845	428.981	2.136	REFER TO COB SD-P10-2	X	
				225	427.07							
912	JUNCTION PIT	0.9	0.9	375	425.273	450	425.243	426.99	1.747	REFER TO COB SD-P10-2	X	
913	JUNCTION PIT	0.9	0.9	225	426.103	375	425.66	427.76	2.101	REFER TO COB SD-P10-2	X	
914	JUNCTION PIT	0.9	0.9			225	427.673	429.347	1.674	REFER TO COB SD-P10-2	X	
915	DOUBLE SIDE ENTRY PIT	1.8	0.9			300	424.921	426.092	1.171	REFER TO COB SD-P2-2	X	
917	SIDE ENTRY PIT	0.9	0.9			300	426.392	427.683	1.292	REFER TO COB SD-P1-2	X	
918	SIDE ENTRY PIT	0.9	0.9			300	425.132	426.446	1.314	REFER TO COB SD-P1-2	X	
919	SIDE ENTRY PIT	0.9	0.9			300	425.385	426.736	1.35	REFER TO COB SD-P1-2	X	
920	SIDE ENTRY PIT	0.9	0.9			300	426.217	427.458	1.241	REFER TO COB SD-P1-2	X	
922	SIDE ENTRY PIT	0.9	0.9			300	426.709	427.986	1.277	REFER TO COB SD-P1-2	X	
924	SIDE ENTRY PIT	0.9	0.9			300	426.998	428.235	1.237	REFER TO COB SD-P1-2	X	
926	SIDE ENTRY PIT	0.9	0.9			300	428.154	429.395	1.241	REFER TO COB SD-P1-2	X	
927	SIDE ENTRY PIT	0.9	0.9			300	425.047	426.282	1.236	REFER TO COB SD-P1-2	X	
928	JUNCTION PIT	0.9	0.9			225	428.405	429.664	1.259	REFER TO COB SD-P10-2	X	
Ex203	JUNCTION PIT			675	424.518			427.809	3.366			
Ex204	SIDE ENTRY PIT			300	425.273			427.713	2.843	EXISTING COVER LEVEL TO BE AMENDED. CONVERT EXISTING JUNCTION PIT.		
Ex207	SIDE ENTRY PIT			300	425.951			428.025	2.599	EXISTING COVER LEVEL TO BE AMENDED. CONVERT EXISTING JUNCTION PIT.		
Ex211	SIDE ENTRY PIT			300	426.406			428.259	2.303	EXISTING COVER LEVEL TO BE AMENDED. CONVERT EXISTING JUNCTION PIT.		
Ex302	SIDE ENTRY PIT			300	427.71			429.419	2.009	CONVERT EXISTING JUNCTION PIT.		



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

file name: 309954CR602.dwg, location: h:\projects\stage 9\stage 9\309954\309954.dwg, user: JACAD, plot date: 19/04/2022 3:59 PM, sheet: 16 of 18 sheets

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CONROY'S GREEN
STAGE 9
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 3
 BALLARAT CITY COUNCIL
 SAN HUBERTO PROPERTIES P/L

PRELIMINARY
Drg No
309954CR602
Rev
A

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% (MMD)	150
SUBBASE COURSE (mm)	CLASS 3 20mm or 40mm FCR, COMPACTED TO 97% (MMD)	220
CAPPING LAYER (mm)	IMPORTED PRODUCT WITH A MINIMUM CBR OF 10, SWELL NO GREATER THAN 15%, PERMEABILITY NO GREATER THAN 5X10-9M/S AND BE COMPACTED TO A MINIMUM DENSITY RATIO OF 98% STANDARD.	150
TOTAL PAVEMENT DEPTH		560

ROAD NAME	TYPE
BROLGA BOULEVARD	A
MALLARD PARADE	A
SKYLARK DRIVE	A
WREN WAY	A
STORK STREET	A

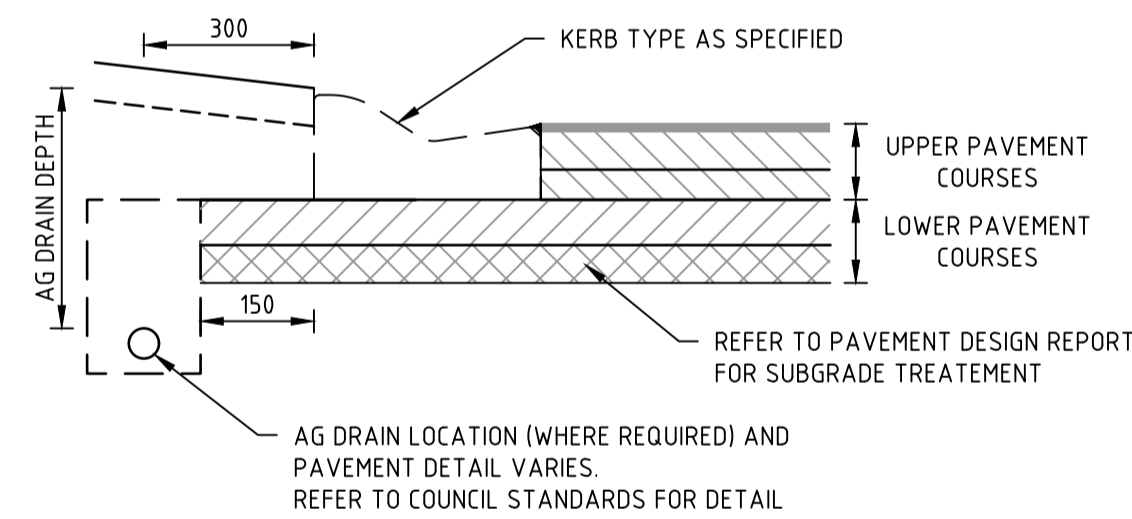
GENERAL NOTES:

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

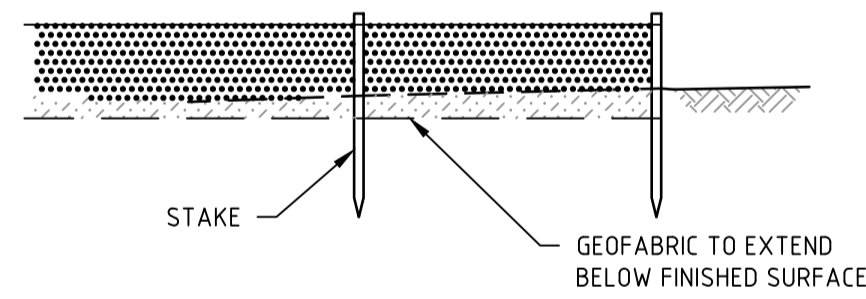


PAVEMENT PLAN

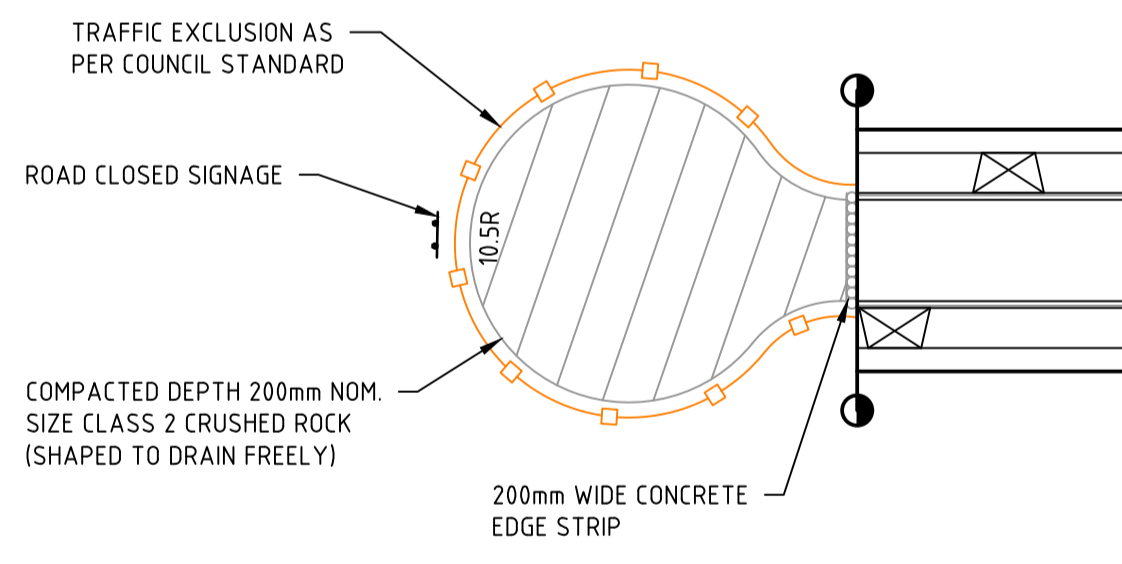
H 1:1000
SCALE @ A1



TYPICAL SUBSURFACE DRAIN DETAIL FOR NON-EXPANSIVE SUBGRADE
REFER TO AUTHORITY REQUIREMENTS FOR SPECIFIC DETAILS



SILT CONTROL FOR LOTS
GEOFABRIC SILT FENCE



TEMPORARY TURNING AREA DETAIL

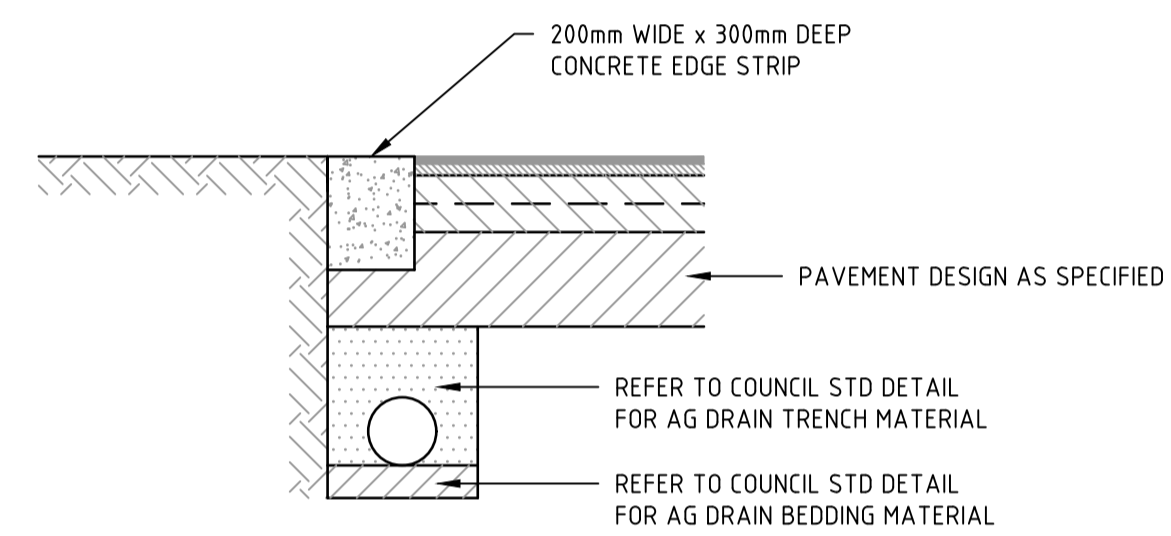
PAVEMENT DETAILS

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.

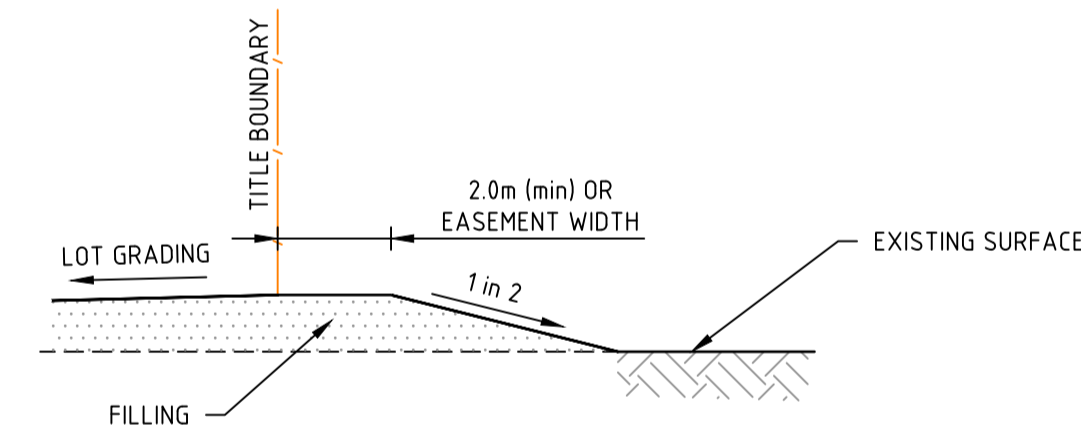
THE DESIGN HAS BEEN EXTRACTED FROM THE GTS REPORT ON "520 GREENHALGH ROAD, WINTER VALLEY" THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.

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

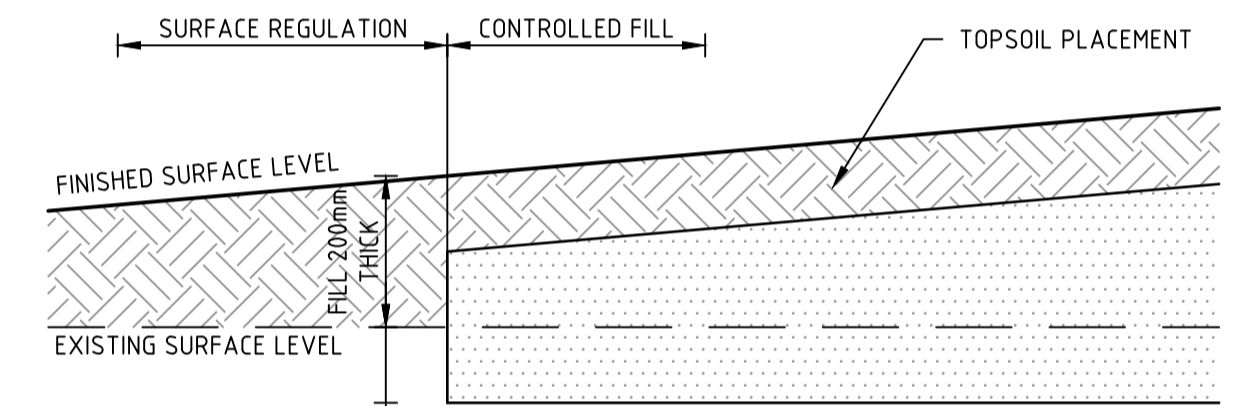
SPIIRE DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS. ANY QUERIES IN RESPECT TO THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS SHOULD BE ADDRESSED TO GTS AND SENT TO SPIIRE.



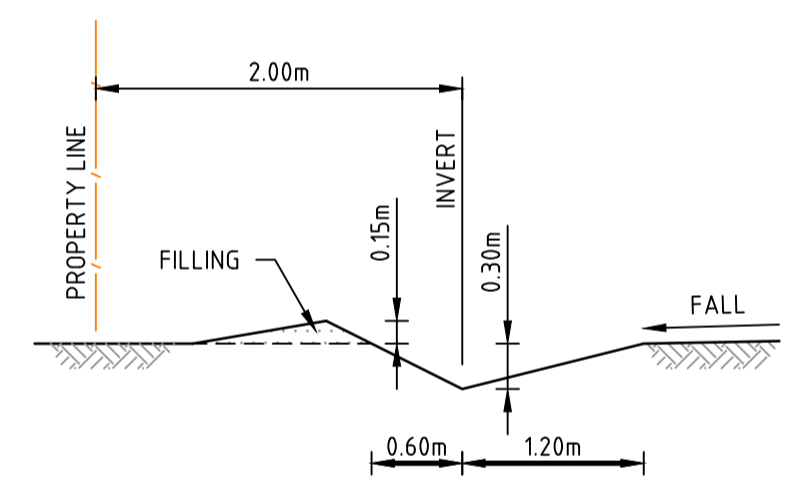
LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE DETAIL



LOT FILLING AT STAGE BOUNDARY

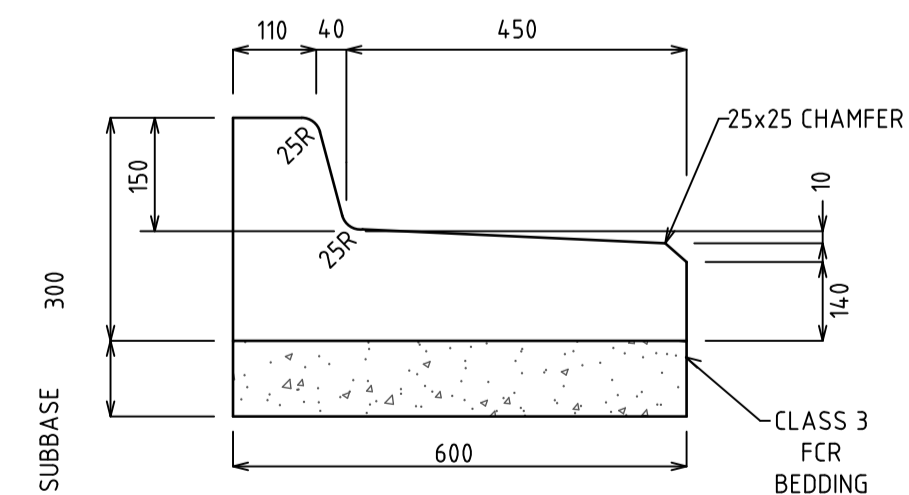


LOT REGRADING DETAIL

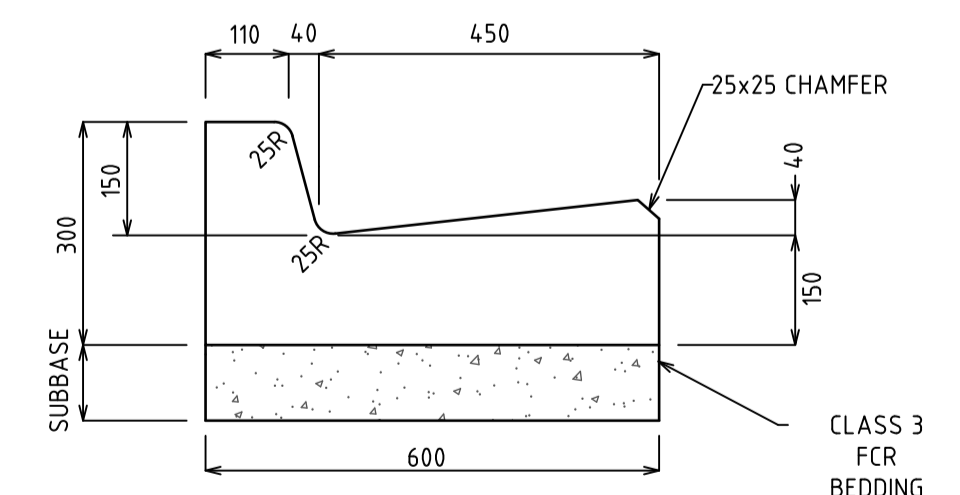


TYPICAL CATCH DRAIN SECTION

NOT TO SCALE



B3 - STANDARD KERB & CHANNEL



B2 - STANDARD KERB & CHANNEL

STANDARD KERB PROFILES

NOT TO SCALE



file name: 309954CR700.dwg, location: name: CD700, sheet: 17 of 18, sheets, file location: G:\309954\17.dwg, CAD plot date: 19/04/2022 3:59 PM, sheet: 17 of 18, sheets

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16 BRIDGE STREET BENDIGO

 VICTORIA 3550 AUSTRALIA T 61 3 5448 2500

 spiire.com.au ABN 55 050 029 635

Designed S.WOOD	Checked B.IBBS
Authorised A.WILKIE	Date 1/4/22

CONROY'S GREEN

STAGE 9

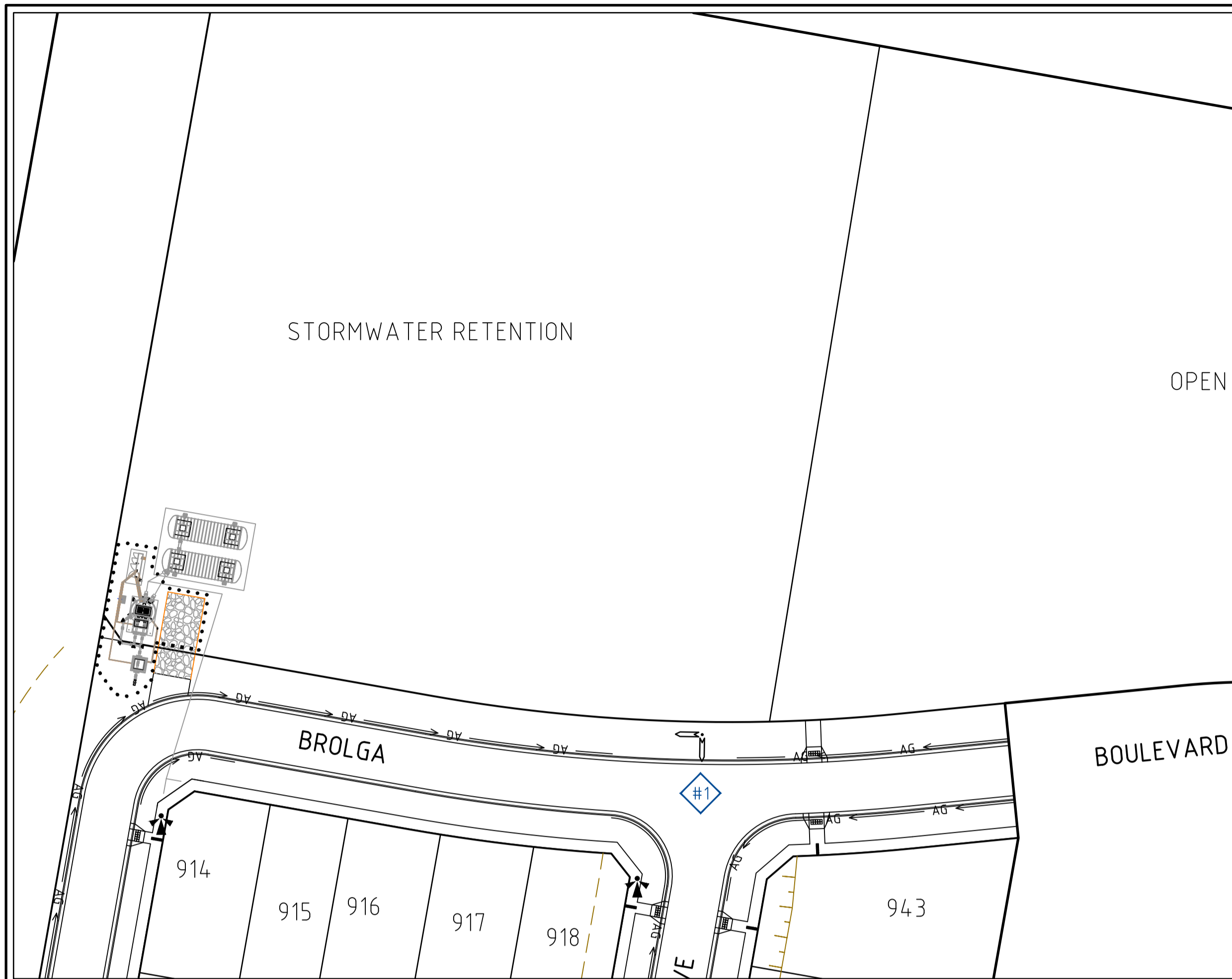
ROAD AND DRAINAGE

PAVEMENT AND TYPICAL DETAILS - SHEET 1

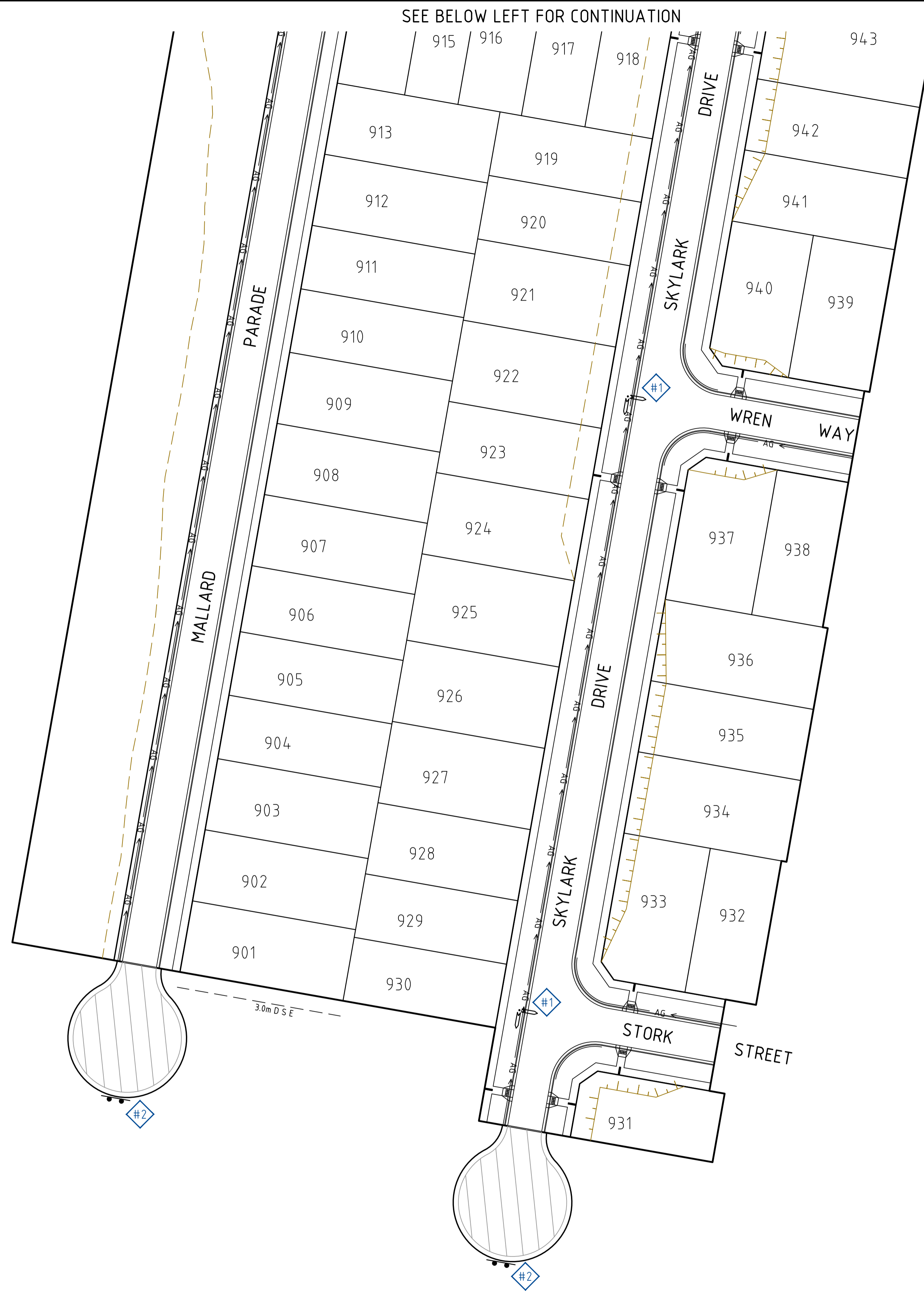
 BALLARAT CITY COUNCIL

 SAN HUBERTO PROPERTIES P/L

PRELIMINARY
Drg No
309954CR700
Rev
A



SEE ABOVE RIGHT FOR CONTINUATION



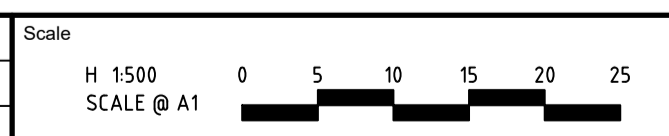
LEGEND

- STREET NAME PLATES TO BE IN ACCORDANCE WITH CITY OF BALLARAT STANDARDS, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE
- ROAD CLOSED G9-20
- D4-5
- D4-2-1
- TACTILE GROUND SURFACE INDICATORS (TGS's)

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

Rev	Description	Approved	Date
A	PRELIMINARY ISSUE	AW	17/03/22
	Amendments		



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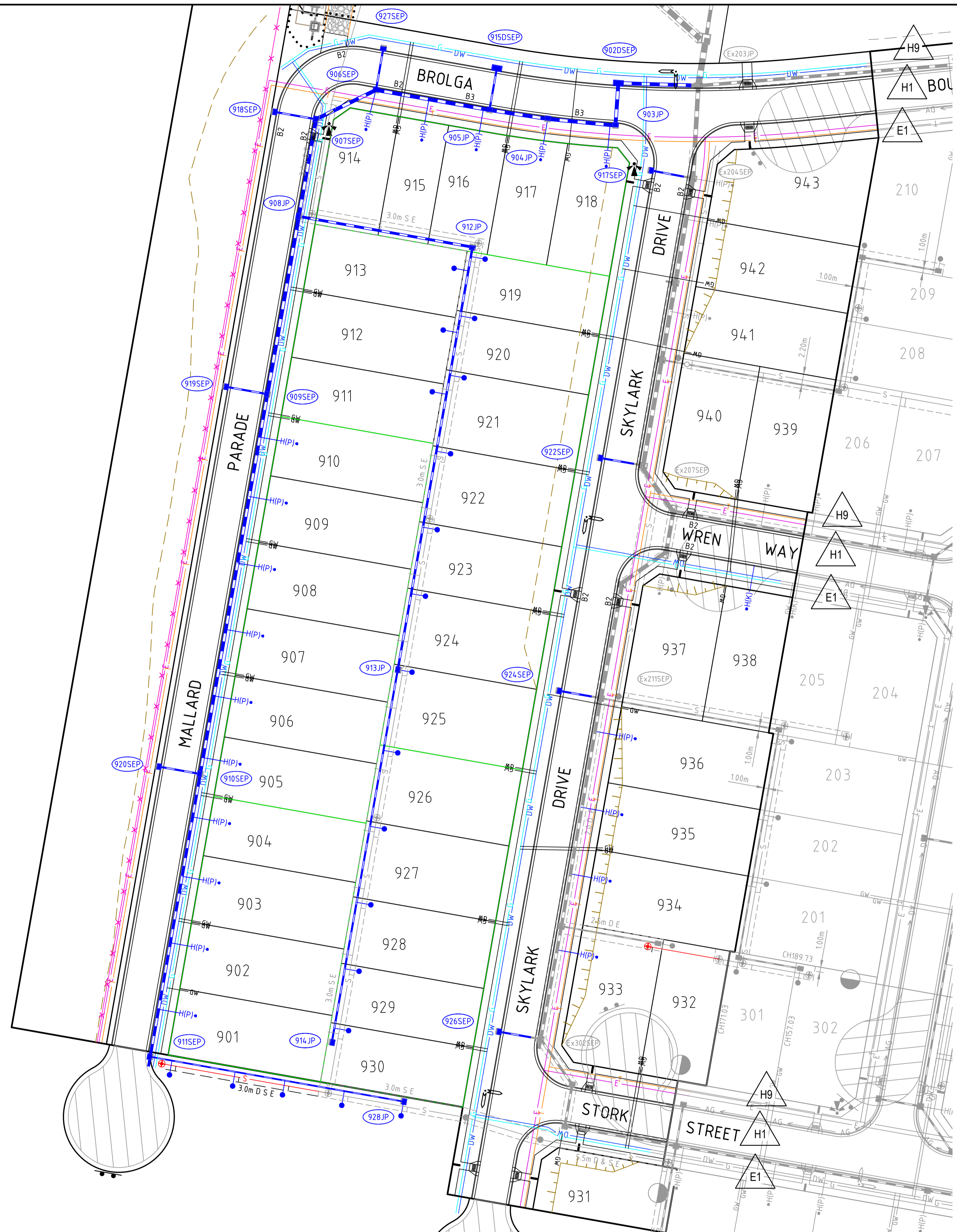
Date
1/4/22

**CONROY'S GREEN
STAGE 9
ROAD AND DRAINAGE
SIGNAGE AND LINEMARKING - SHEET 1**

BALLARAT CITY COUNCIL
SAN HUBERTO PROPERTIES P/L

PRELIMINARY Dwg No **309954CR800** Rev **A**

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ENVIRONMENTAL PROTECTION

E1	TRAFFIC AND SITE ACCESS	✓	E2	ENVIRONMENTAL AUDIT AREAS (CONTAMINATION)	✗	E3	ARCHAEOLOGICAL / HERITAGE	✓	E4	FLORA AND FAUNA	✓
E5	MANAGEMENT OF IMPORTED AND EXPORTED SOIL	✓	E6	DUST, NOISE AND ODOUR CONTROL	✓	E7	ASSESSMENT AND MANAGEMENT OF POTENTIALLY CONTAMINATED SOIL	✗	E8	STOCKPILING OF SOIL	✓
E9	EROSION AND SEDIMENT CONTROL	✓	E10	STORMWATER MANAGEMENT	✓	E11	SOLID WASTE MANAGEMENT	✗	E12	PLACEMENT OF TEMPORARY INFRASTRUCTURE	✓
CONTROL PUMPOUT POINT		★	E13	HAZARDOUS CHEMICAL STORAGE AND HANDLING	✓	E14	BLASTING / VIBRATION CONTROL	✗			
CONTRACTOR TO MARK LOCATION OF SEDIMENT CONTROL POINTS ON PLAN FOR APPROVAL ALSO INDICATING METHOD			CONTRACTOR TO MARK LOCATION ON PLAN FOR APPROVAL								

LEGEND

- ✖✖✖ SILT FENCE
- SILT SOCK (IF REQUIRED)

WARNING

BEWARE OF UNDERGROUND SERVICES
 THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

BEWARE OF OVERHEAD ELECTRICITY
 CONTRACTOR TO EXERCISE EXTREME CARE WHEN WORKING UNDER OVERHEAD ELECTRICITY. CONTACT POWERCOR FOR SAFETY GUIDELINES FOR WORKING UNDER POWERLINES

GENERAL NOTES

- REFER TO SPECIFICATION FOR DETAIL ON SPECIFIC CLAUSES.
- THE PURPOSE OF THIS PLAN & RELATED SPECIFICATION IS TO IDENTIFY ENVIRONMENTAL AND HEALTH AND SAFETY ISSUES THAT MUST BE CONSIDERED. THE CONTRACTOR SHALL USE THIS PLAN AND RELATED SPECIFICATIONS TO GENERATE THEIR OWN ENVIRONMENTAL MANAGEMENT AND HEALTH AND SAFETY PLAN TO IMPLEMENT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- EXISTING FENCINGS ARE SHOWN ON THE ENGINEERING DRAWINGS. UNLESS SPECIFIED FOR DEMOLITION THE CONTRACTOR SHALL NOT REMOVE OR RELOCATE THE FENCING UNLESS PRIOR WRITTEN APPROVAL HAS BEEN OBTAINED FROM THE SUPERINTENDENT.
- THE CONTRACTOR IS TO PROVIDE SEDIMENT FENCE TO CONTROL SILTFOR ALL STORMWATER RUNOFF FROM THE SITE.
- SITE SECURITY IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY ADDITIONAL FENCING REQUIRED FOR THIS PURPOSE IS TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR. SECURITY FENCING IS NOT SHOWN ON THIS PLAN.
- KEY ENVIRONMENTAL CONSIDERATIONS SURROUNDING THE SITE OF WORKS ARE MARKED AT TYPICAL LOCATIONS AND THEREFORE SHOULD NOT BE LIMITED TO THOSE AS NOTED. SIMILAR ENVIRONMENTAL TREATMENTS AND PRECAUTIONS SHOULD BE TAKEN FOR ALL POINTS AS MARKED.
- TREES TO BE REMOVED SHALL BE CLEARLY MARKED BY THE SUPERINTENDENT WITH BRIGHT VISIBLE TAPE.
- FOR FURTHER CLARIFICATIONS ON THE CULTURAL AND ARCHAEOLOGICAL SIGNIFICANCE AND PRESERVATIONS WITHIN THE SITE REFER TO THE 'ARCHAEOLOGICAL CONSULTING SERVICES' REPORT, JUNE 2004.

HEALTH AND SAFETY PROTECTION

H1	EXISTING UNDERGROUND SERVICES	✓	H2	RESPONSIBILITIES	✓
CONTRACTOR TO CONDUCT 'MOCS' INQUIRY AND NOTIFY ALL AUTHORITIES TO LOCATE EXISTING SERVICES.			CONTRACTOR TO FORWARD DETAILS OF THE NOMINATED OH&S REPRESENTATIVE.		
H3	BLASTING	✗	H4	SITE ACCESS RESTRICTED AREAS	✗
H5	DUST CONTROL & NOISE CONTROL	✓	H6	SITE INDUCTIONS	✓
			CONTRACTOR TO ENSURE THAT ALL SUBCONTRACTORS ARE AWARE OF THE REQUIREMENTS SETOUT IN THE EMP.		
H7	MANAGEMENT OF CONTAMINATED SOIL / GROUNDWATER / SURFACE WATER	✗	H8	SIGNAGE	✓
H9	TRAFFIC MANAGEMENT	✓	H10	ACCIDENTAL DISTURBANCE OR CONTACT	✗
H11	EMERGENCY PROCEDURES	✓	H12	ACCIDENT REPORTING	✓
H13	OPERATING PLANT / MACHINERY	✓	H14	EXCAVATIONS, CONFINED SPACES & VOIDS	✓

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Checked
A.WILKIE
 Date
 23/03/22

**CONROY'S GREEN
 STAGE 9**

ENVIRONMENTAL MANAGEMENT PLAN - SHEET 1
 BALLARAT CITY COUNCIL
 ABIWOOD CREEKSIDE PTY LTD

PRELIMINARY Dwg No **309954CE001** Rev **0**

Erosion & Sediment Control

Sediment Fence

U-shaped with posts at 1 m centres and a 300 mm (min) high spill-through weir with crest level below the upper ground level

Erosion & Sediment Control

Stockpiles

A sediment fence should be located down-slope of stockpiles

Erosion & Sediment Control

Fence Installation

Constructing a sediment trench up-slope of the fence can also extend the maintenance period

Sediment fence
Flow
Fabric may be required to control erosion
Sediment storage trench 1 m³ volume per 200 m² of catchment area

Erosion & Sediment Control

Sediment Fence

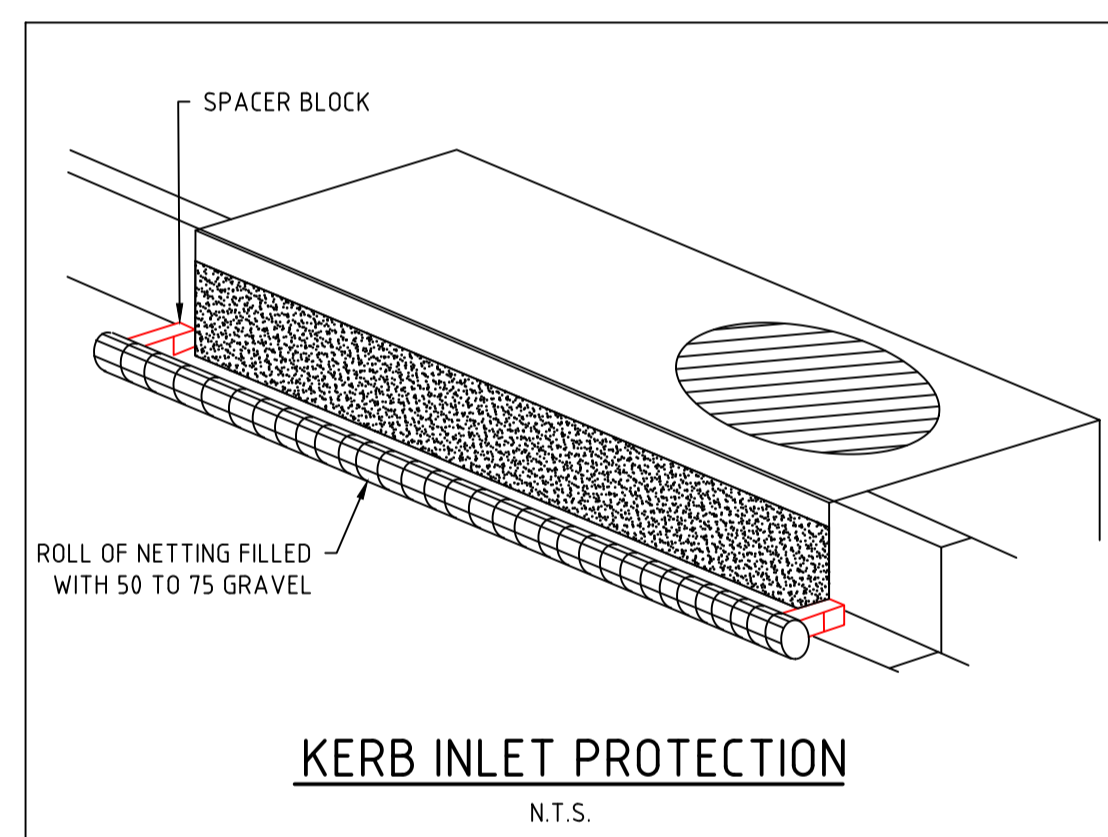
A sediment fence is effectively a porous dam that aims to temporarily pond up-slope water allowing settlement

Post
Geotextile

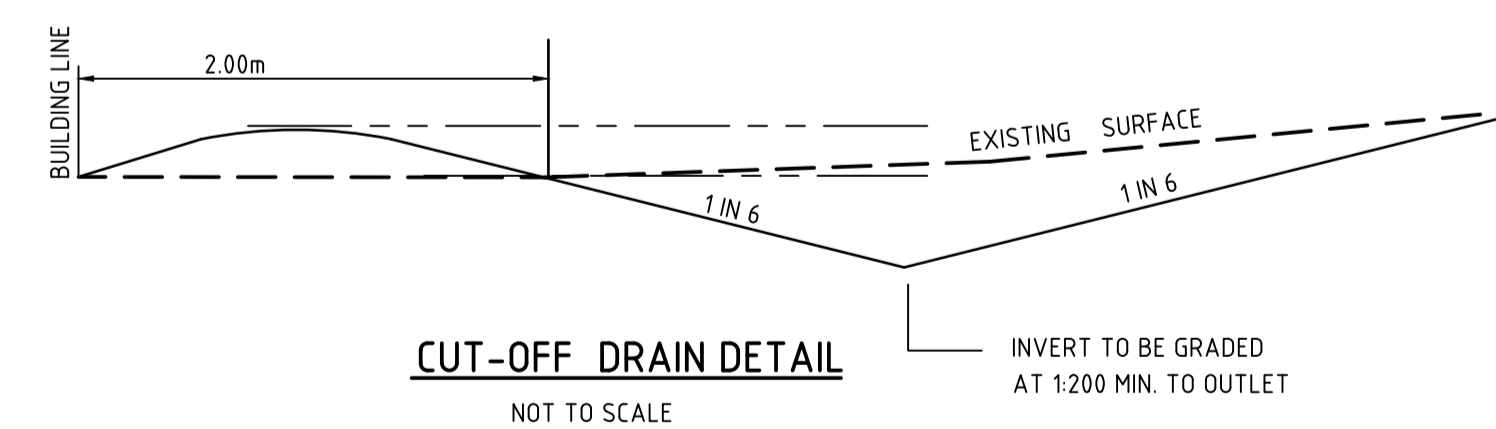
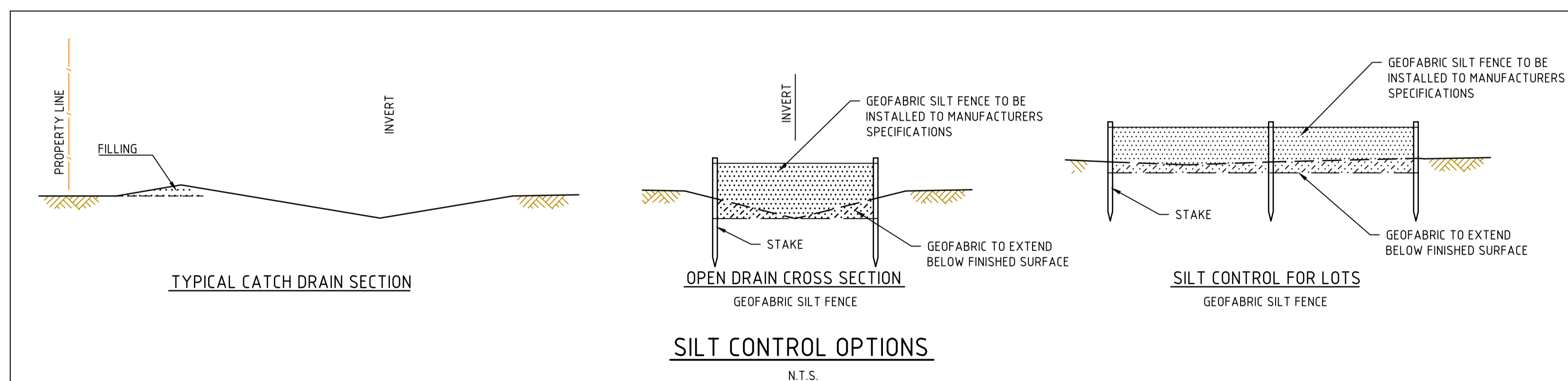
ENVIRO DEVELOPMENT ACCREDITATION

THE CONTRACTOR WILL BE RESPONSIBLE TO ASSIST ABIWOOD (THE DEVELOPER) TO ACHIEVE ACCREDITATION OF "EnviroDevelopment". EnviroDevelopment IS A SCIENTIFICALLY BASED BRANDING SYSTEM DESIGNED TO MAKE IT EASIER FOR PURCHASERS TO RECOGNIZE AND THEREBY SELECT MORE ENVIRONMENTALLY SUSTAINABLE HOMES AND LIFESTYLES. MORE SPECIFICALLY THE CONTRACTOR WILL NEED TO MEET THE FOLLOWING REQUIREMENTS.

1. THE CONTRACTOR WILL COMMIT TO PROVIDING STORMWATER MANAGEMENT TO ENSURE WATERWAYS (KENSINGTON CREEK) ARE PROTECTED DURING CONSTRUCTION. THIS INCLUDES PROVIDING SILT TRAPS ONSITE AND IMPLEMENTING NO GO ZONES.
2. EROSION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE PRIOR TO OPERATION.
3. THE CIVIL DESIGN HAS BEEN UNDERTAKEN TO BALANCE CUT AND FILL VOLUMES TO MINIMIZE ANY EXPORTATION / IMPORTATION OF CUT / FILL ON THE SITE. THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT SHOULD ANY SPOIL BE REQUIRED TO BE TAKEN OFFSITE OR IMPORTED.
4. A CONTAMINATION INVESTIGATION HAS BEEN UNDERTAKEN AT THE SITE. THIS INVESTIGATION CONCLUDES THAT THE SITE HAS A LOW RISK FOR SOIL CONTAMINATION. THIS ENVIRONMENTAL MANAGEMENT AND INARTICULATE ITEM 3 ABOVE ASSISTS IN MANAGING SOIL REMOVAL & IMPORTATION.
5. THE CONTRACTOR MUST USE THE FOLLOWING ENVIRONMENTALLY SUSTAINABLE MATERIALS AND SUPPLIERS: a) 95% OF CONSTRUCTED ROADS SHALL BE CONSTRUCTED USING WARM MIX ASPHALT REPLACING 40% BY WEIGHT OF HOT MIX ASPHALT. THE CONTRACTOR SHALL ALSO PROVIDE PROOF SUPPORTING THIS TECHNICAL INFORMATION.
b) PCV MATERIAL USED WITHIN THE DEVELOPMENT MUST BE SOURCED FROM A SUPPLIER WHO IS ISO14001 CERTIFIED. THE CONTRACTOR SHALL ALSO PROVIDE PROOF SUPPORTING THIS TECHNICAL INFORMATION.
6. SOFT LANDSCAPING - THROUGHOUT THE PROJECT ANY VEGETATION DEBRIS FROM THE SITE IS TO BE MULCHED AND REUSED. ANY NON-CONTAMINATED TOPSOIL SHALL ALSO STOCKPILED AND RE-USED ONSITE.
7. THE CONTRACTOR SHALL BE AWARE THE SITE IS OF CULTURAL HERITAGE SIGNIFICANCE AND HAS A CULTURAL HERITAGE MANAGEMENT PLAN WHICH AT ALL TIMES MUST BE ADHERED TO. THE CONTRACTOR WILL BE REQUIRED TO UNDERTAKE A SITE INDUCTION WITH THE APPROPRIATE CULTURAL HERITAGE STAKEHOLDERS PRIOR TO WORKS COMMENCING. A COPY OF THE CULTURAL HERITAGE MANAGEMENT PLAN WILL BE PROVIDED TO THE CONTRACTOR PRIOR TO WORKS COMMENCING.



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



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Date
23/3/22

CONROYS GREEN STAGE 9

ENVIRONMENTAL MANAGEMENT PLAN - SHEET 2
BALLARAT CITY COUNCIL
ABIWOOD CREEKSIDE PTY LTD

PRELIMINARY Drg No 309954CE001 Rev 0