

CONROY'S GREEN STAGE 7 SAN HUBERTO PROPERTY 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 $\pm 0.05\text{m}$.
- 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, TROUGHS, 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

- LINEMARKING 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.



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.



LOCALITY PLAN

H 14,000
SCALE @ A1
0 40 80 120 160 200

DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
CR100	GENERAL NOTES - SHEET 1	1	C
CR200	ROAD LAYOUT PLANS - SHEET 1	2	C
CR201	ROAD LAYOUT PLANS - SHEET 2	3	A
CR202	ROAD LAYOUT PLANS - SHEET 3	4	C
CR300	ROAD LONG SECTIONS - SHEET 1	5	B
CR400	ROAD CROSS SECTIONS - SHEET 1	6	A
CR401	ROAD CROSS SECTIONS - SHEET 2	7	A
CR402	ROAD CROSS SECTIONS - SHEET 3	8	B
CR403	ROAD CROSS SECTIONS - SHEET 4	9	B
CR404	ROAD CROSS SECTIONS - SHEET 5	10	A
CR405	ROAD CROSS SECTIONS - SHEET 6	11	A
CR500	INTERSECTION DETAILS - SHEET 1	12	C
CR600	DRAINAGE LONG SECTIONS - SHEET 1	13	B
CR601	DRAINAGE LONG SECTIONS - SHEET 2	14	A
CR602	DRAINAGE LONG SECTIONS - SHEET 3	15	B
CR700	PAVEMENT AND TYPICAL DETAILS - SHEET 1	16	B
CR800	SIGNAGE AND LINEMARKING - SHEET 1	17	C

APPROVED CITY OF
BALLARAT

By D. Hastings, 13 May, 2022



LEGEND

DESCRIPTION

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

SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		GAS		NBN (TELECOM)		ELECTRICITY	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET
LAPWING ENTRANCE	E	2.95	E	2.40	W	1.80	W	2.70
BUTCHERBIRD PARADE	N	2.95	N	2.40	S	1.80	S	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

CONROY'S GREEN
STAGE 7
ROAD AND DRAINAGE
GENERAL NOTES - SHEET 1
CITY OF BALLARAT
SAN HUBERTO PROPERTY P/L

PRELIMINARY Drg No **309784CR100** Rev **C**

Scale



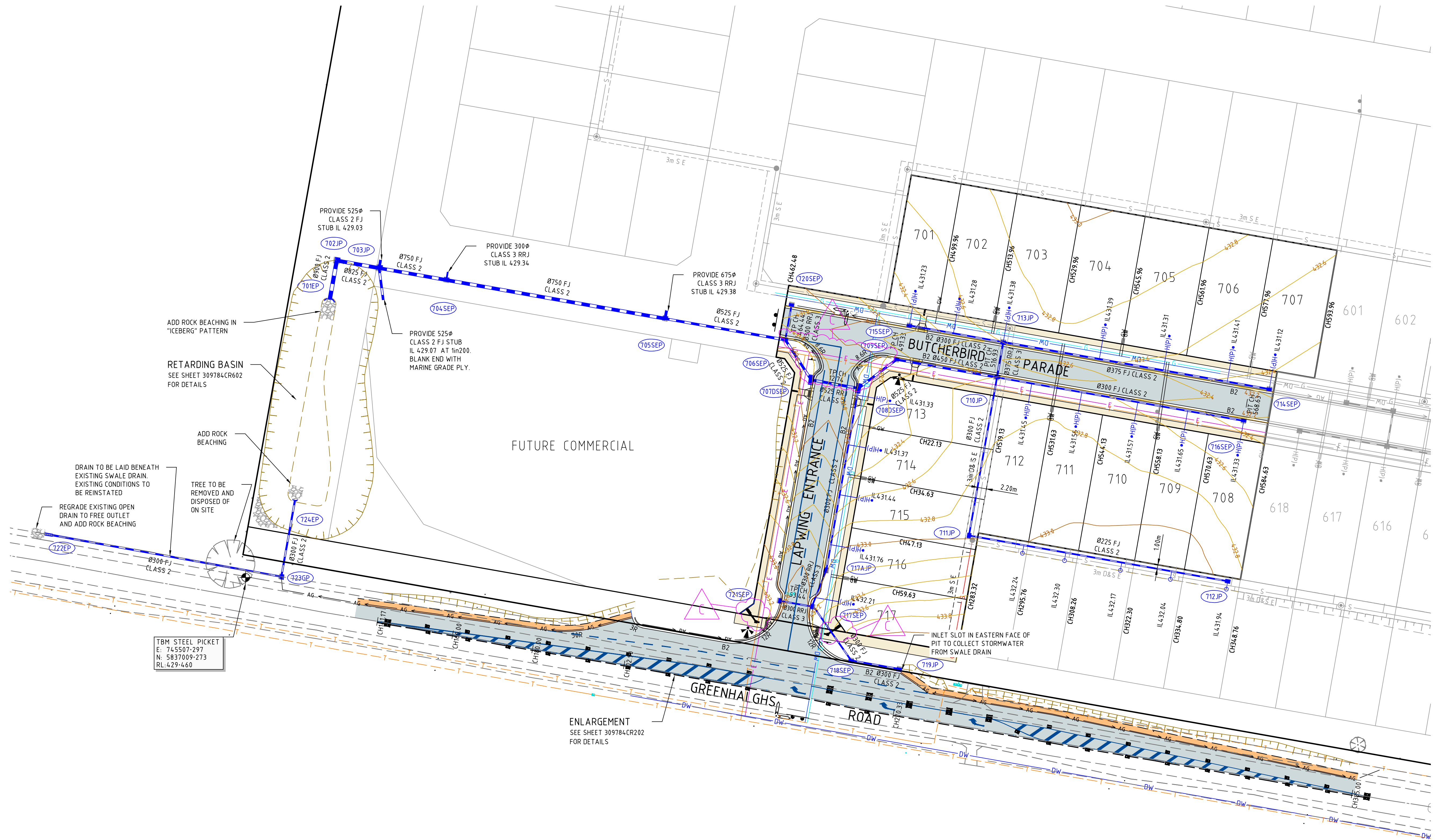
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S.WOOD
Authorised
A.WILKIE

Checked
B.IBBS
Date
17/02/22

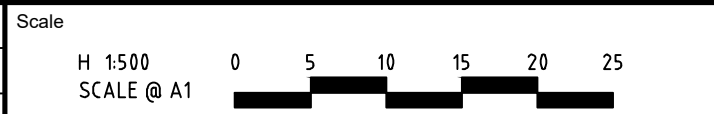


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BEWARE OF UNDERGROUND/OVERHEAD SERVICES
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By D. Hastings, 13 May, 2022

file name: 309784CR200.dwg, layout name: CR200, plotted by: Ashley Wilkie, file location: G:\309784\309784\309784\309784.dwg, plot date: 09/05/2022 9:15 AM, sheet 2 of 17 sheets

Rev	Amendments	Approved	Date
C	LAPWING KERB, LINEMARKING AMENDED, RRPMS ADDED	A.W	09/05/22
B	DRAIN DETAILS AMENDED, ADD FUT COMM SITE STUB, LAPWING PROFILE AMENDED	AW	04/04/22
A	PRELIMINARY ISSUE	AW	17/02/22

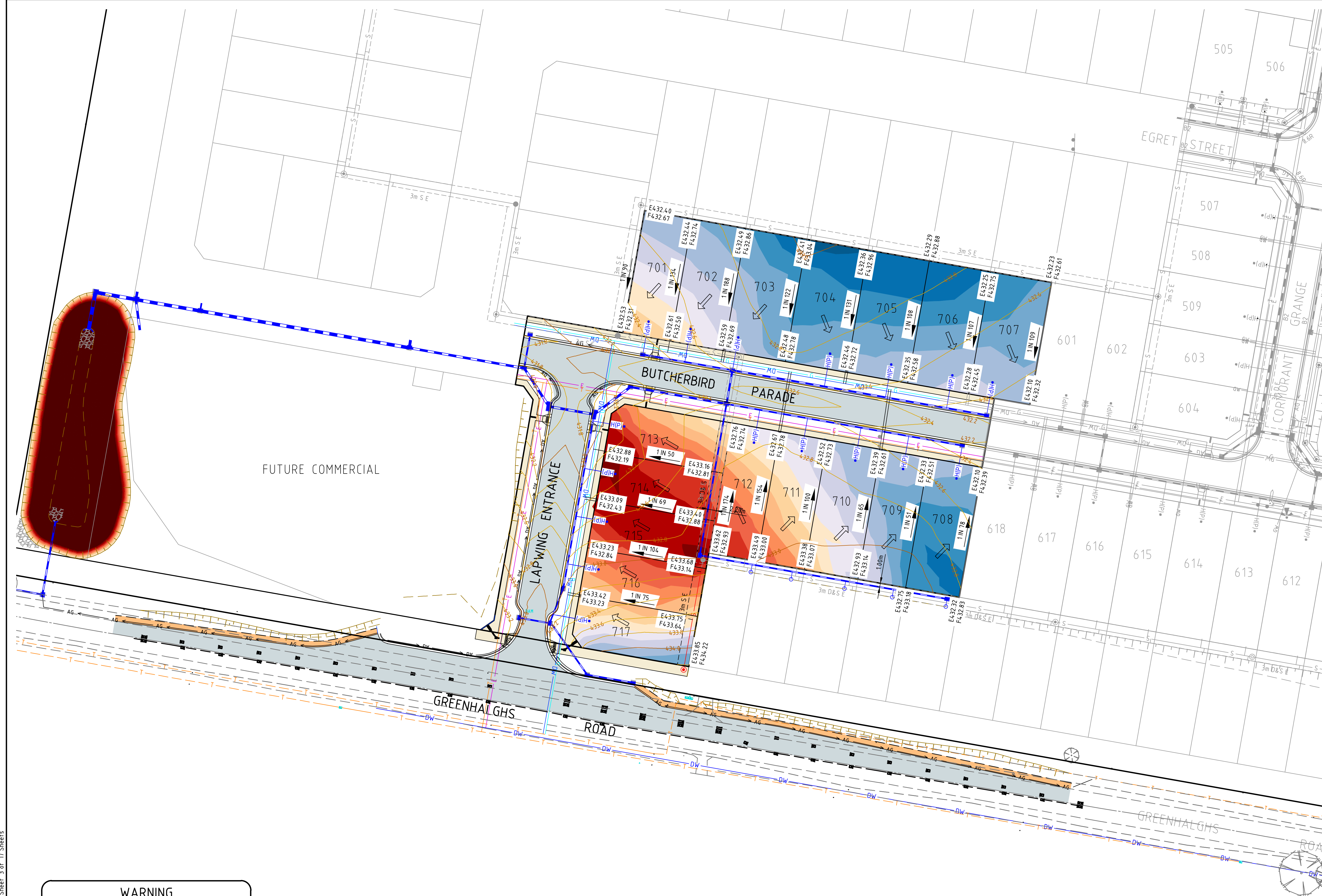


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Authorised A.WILKIE	Date 17/02/22

**CONROY'S GREEN
STAGE 7
ROAD AND DRAINAGE
LAYOUT PLANS - SHEET 1**
CITY OF BALLARAT
SAN HUBERTO PROPERTY P/L
PRELIMINARY Dwg No **309784CR200** Rev **C**



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	+	

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A	PRELIMINARY ISSUE			AW
Rev	Amendments			Date
			Approved	



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**CONROY'S GREEN
STAGE 7
ROAD AND DRAINAGE
ROAD LAYOUT PLANS - SHEET 2
CITY OF BALLARAT
SAN HUBERTO PROPERTY P/L**

PRELIMINARY Drg No 309784CR201

Rev

file name: 309784CR202.dwg, layout: title, C:\Users\ashley.willkie\OneDrive\Documents\309784CR202.dwg, 13/05/2022 9:15 AM, Sheet 4 of 17, Sheets

file location: C:\Users\ashley.willkie\OneDrive\Documents\309784CR202.dwg, 13/05/2022 9:15 AM, Sheet 4 of 17, Sheets

Rev	Amendments	Approved	Date
A	PRELIMINARY ISSUE	AW	17/02/22
B	TRANSITIONS AMENDED TO SUIT 100KM/H	AW	12/04/22
C	LAPWING KERB, LINEMARKING AMENDED, RRPMS ADDED	AW	09/05/22



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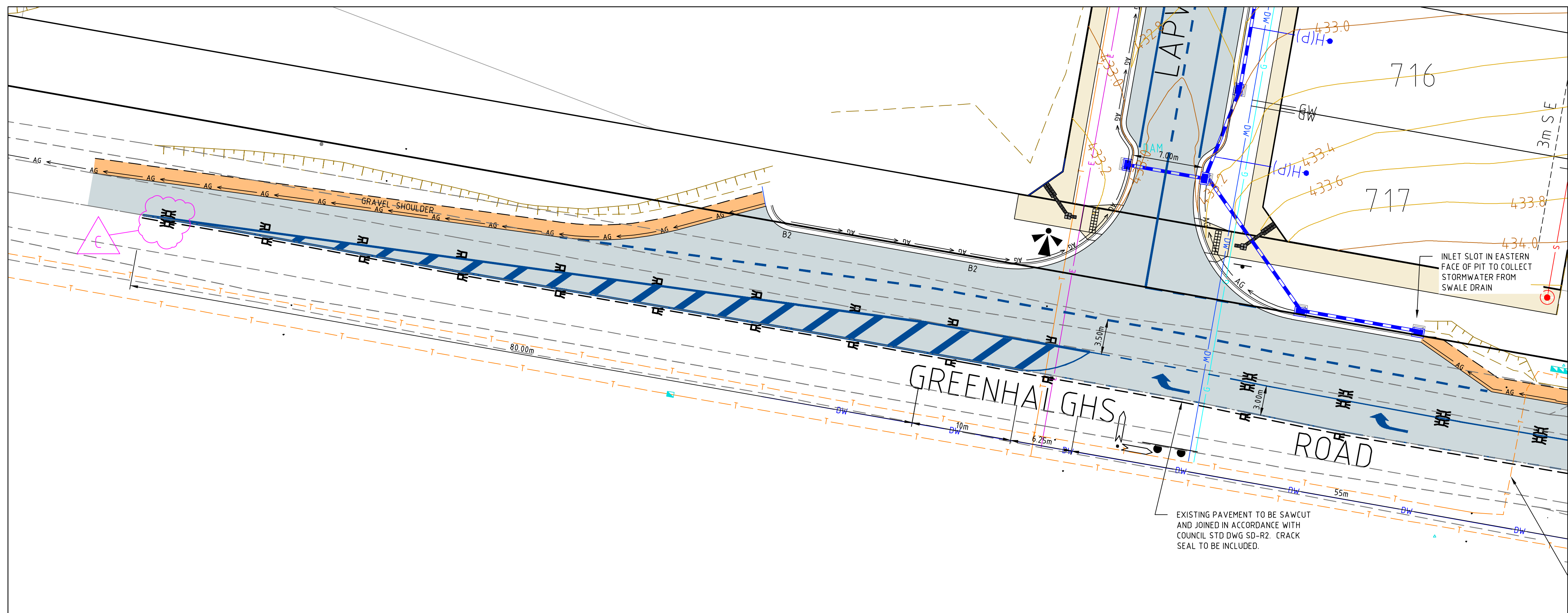
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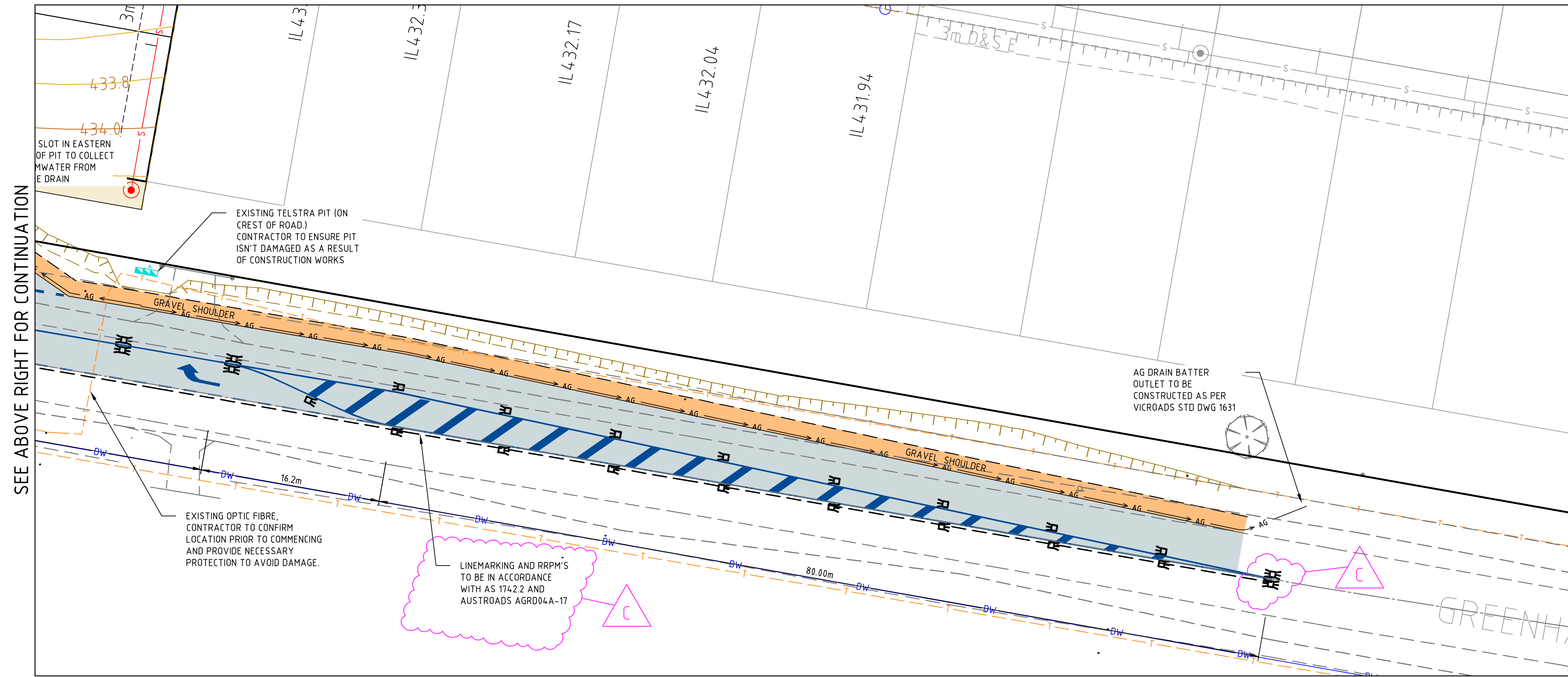
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**CONROY'S GREEN
STAGE 7
ROAD AND DRAINAGE
ROAD LAYOUT PLANS - SHEET 3
CITY OF BALLARAT
SAN HUBERTO PROPERTY P/L**

PRELIMINARY Drg No **309784CR202** Rev **C**



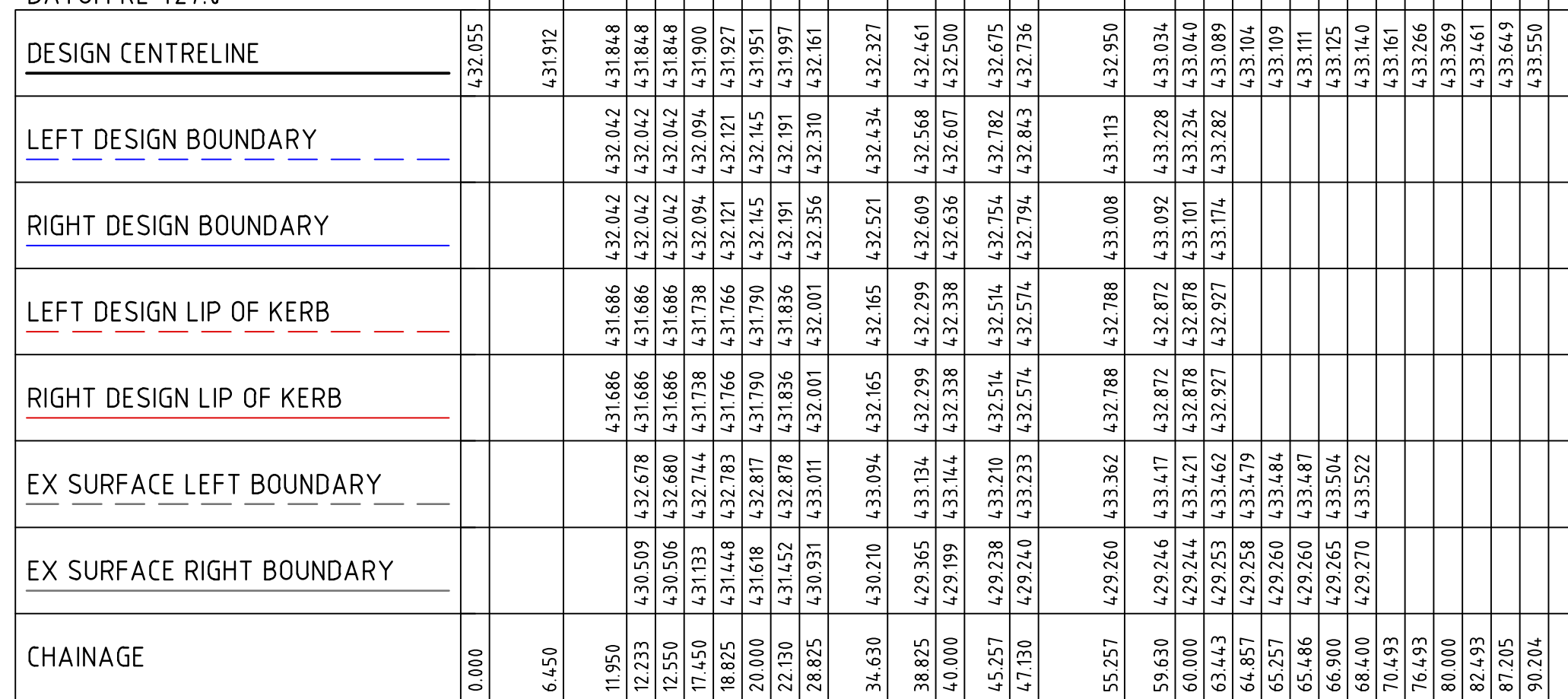
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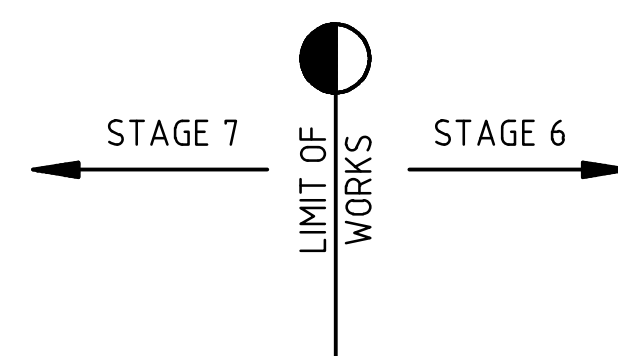
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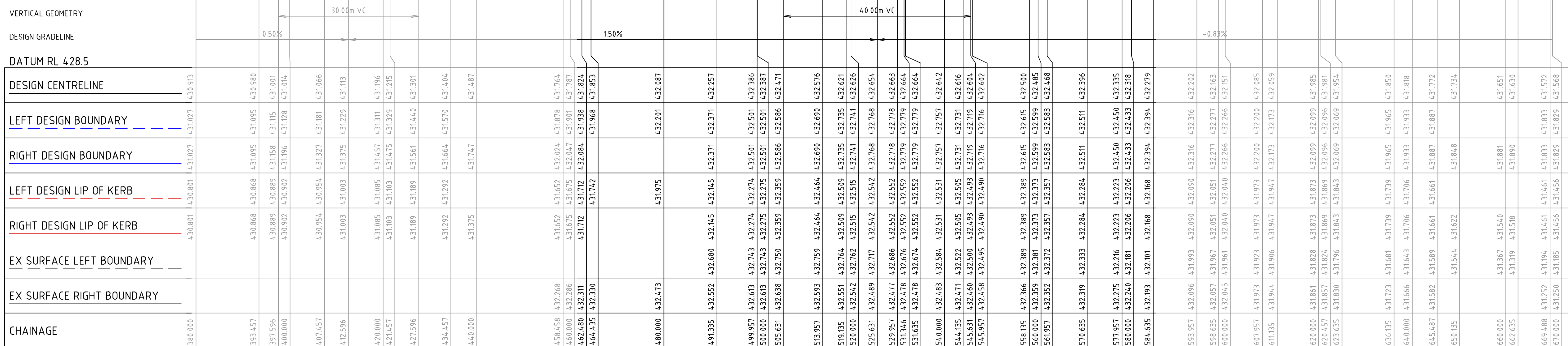


A diagram illustrating the transition from the 'FUTURE STAGE' to 'STAGE 7'. A vertical line labeled 'LIMIT OF WORKS' is topped with a circle divided vertically (half black, half white). An arrow points left from the limit towards 'FUTURE STAGE', and another arrow points right towards 'STAGE 7'.



APPROVED CITY OF
BALLARAT 

By D. Hastings, 13 May, 2022



Scale

H 1:500 0 5 10 15 20 25

SCALE @ A1

V 1:50 0 0.5 1 1.5 2 2.5



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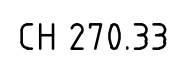
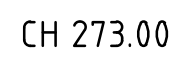
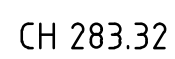
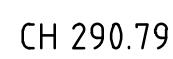
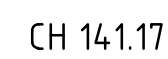
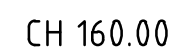
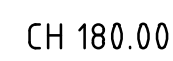
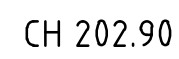
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CONROY'S GREEN
STAGE 7
ROAD AND DRAINAGE
ROAD LONG SECTIONS - SHEET 1
CITY OF BALLARAT
SAN HUBERTO PROPERTY P/L

PRELIMINARY Drg No 309784CR300

Rev
B

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



Scale

H 1:100
SCALE @ A1
V 1:50

0 1 2 3 4 5
0 0.5 1 1.5 2 2.5



		CONROY'S GREEN STAGE 7 ROAD AND DRAINAGE ROAD CROSS SECTIONS - SHEET 1 CITY OF BALLARAT SAN HUBERTO PROPERTY P/L	
Designed	Checked		
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Authorised	Date		
A.WILKIE	17/02/22	<div> <div> PRELIMINARY </div> <div> 309784CR400 </div> <div> A </div> </div>	



APPROVED CITY OF
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By D. Hastings, 13 May, 2022

PRELIMINARY Drg No **309784CR401**

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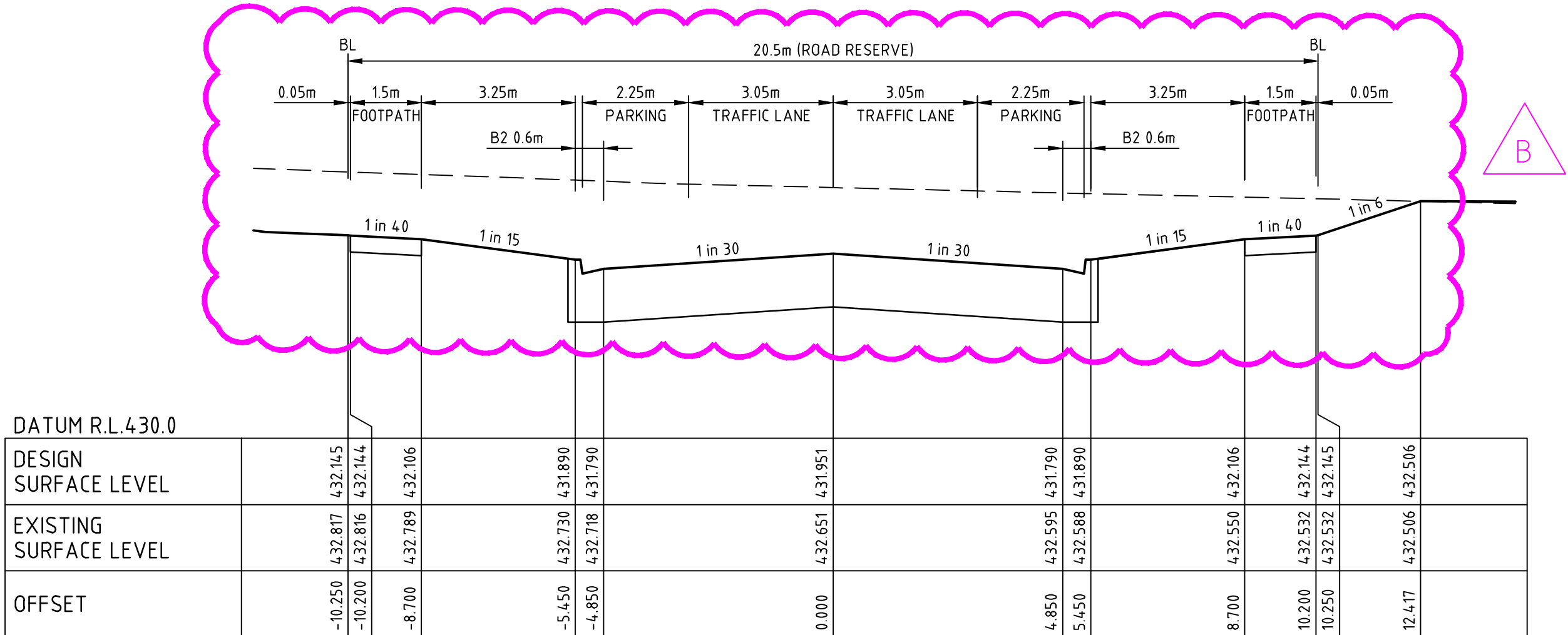


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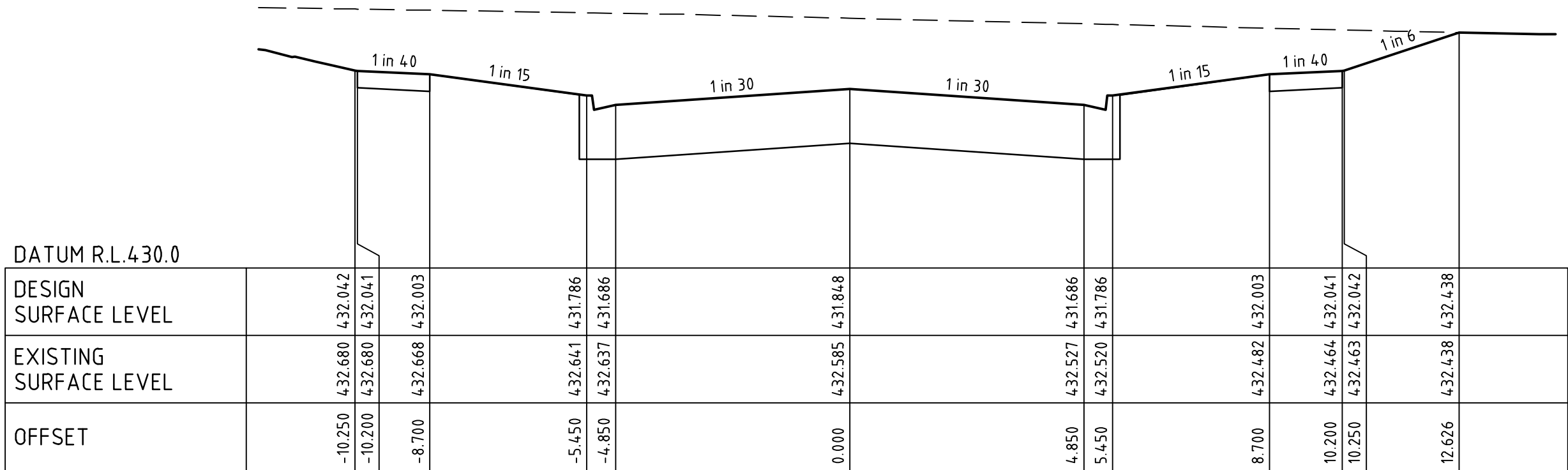
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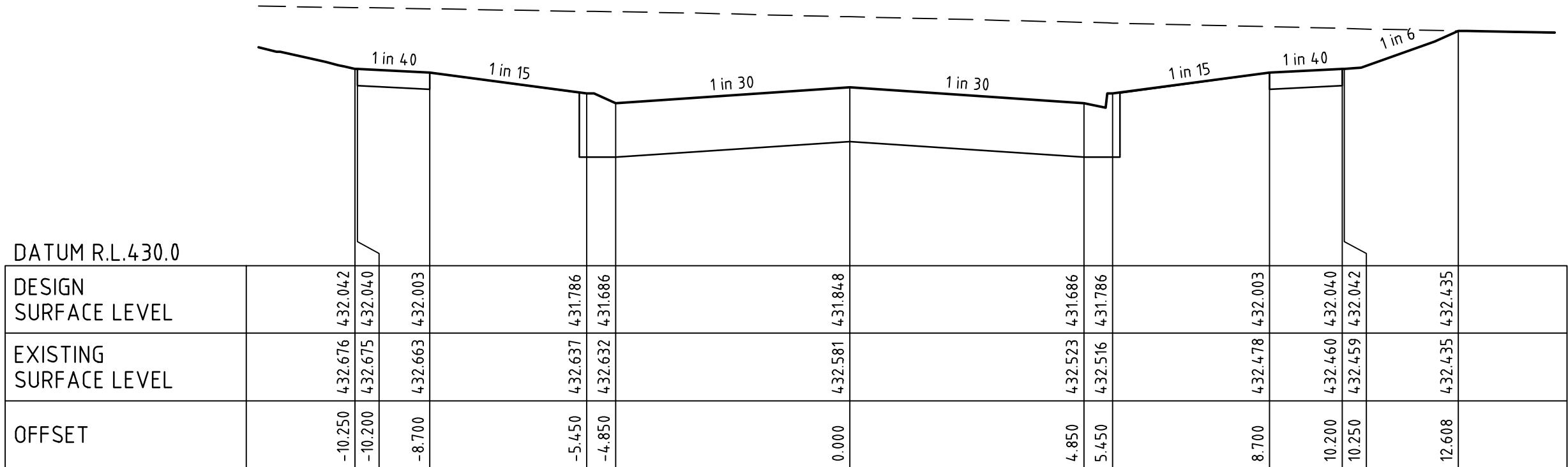
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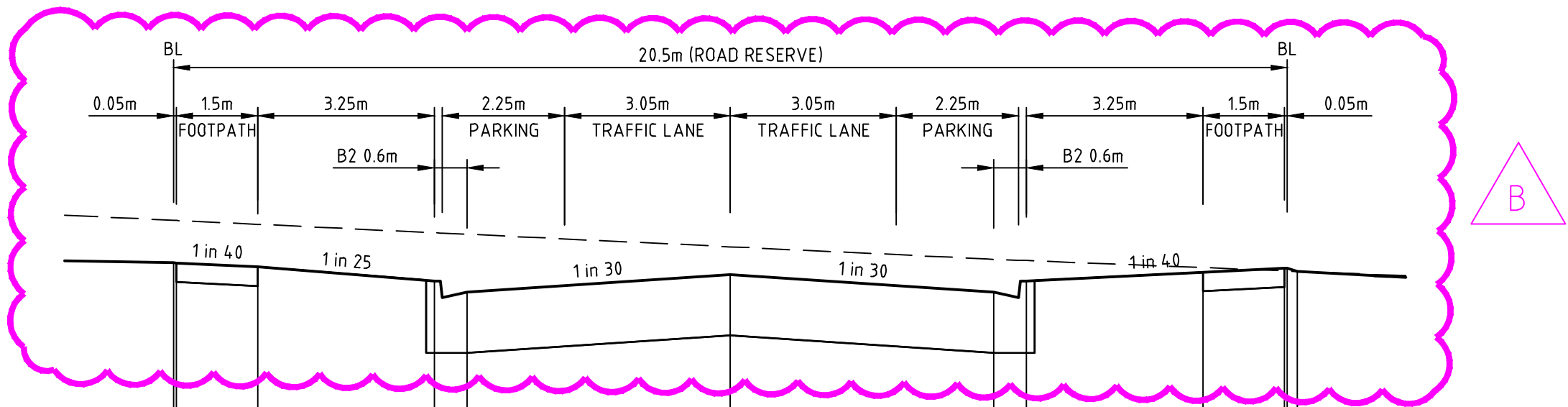
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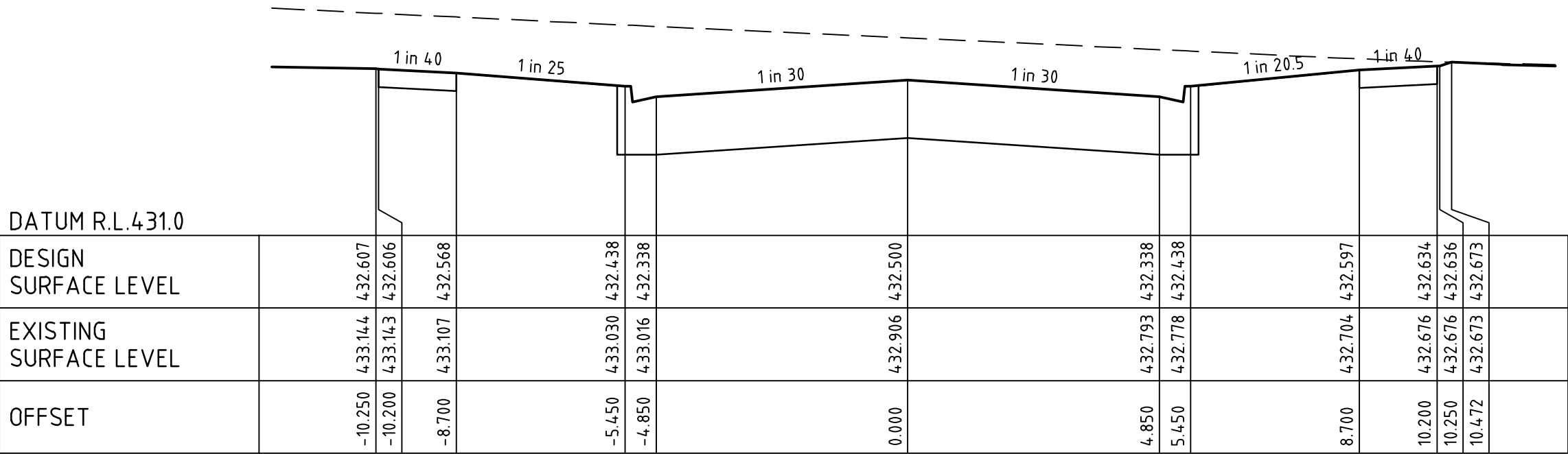
LAPWING ENTRANCE CH 12.55



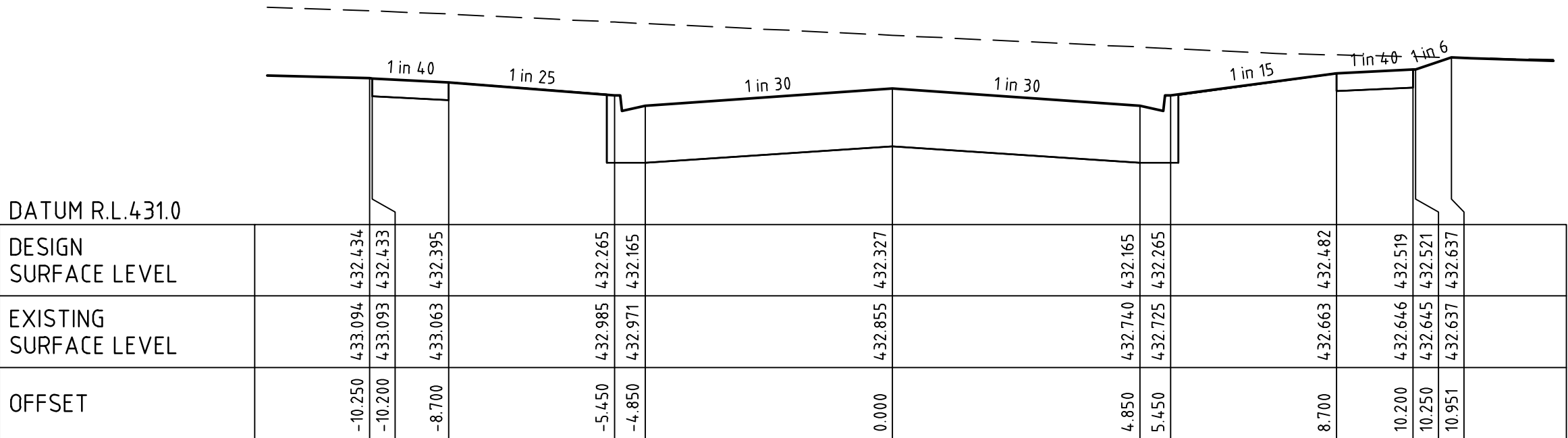
LAPWING ENTRANCE CH 11.95



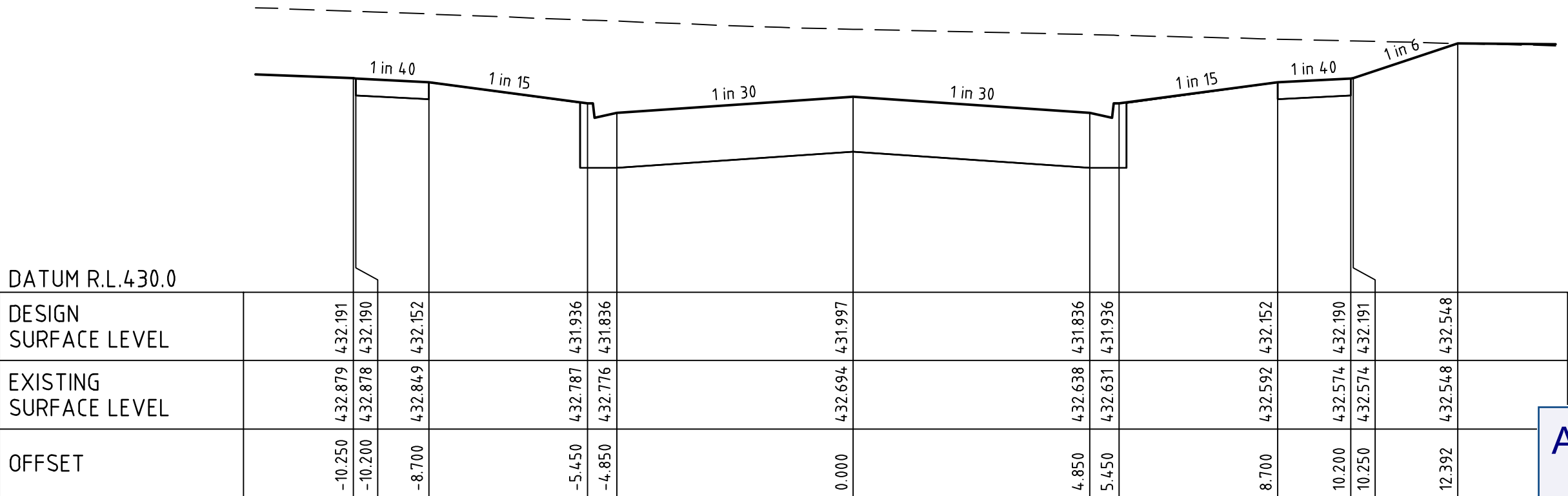
LAPWING ENTRANCE CH 47.13



LAPWING ENTRANCE CH 40.00



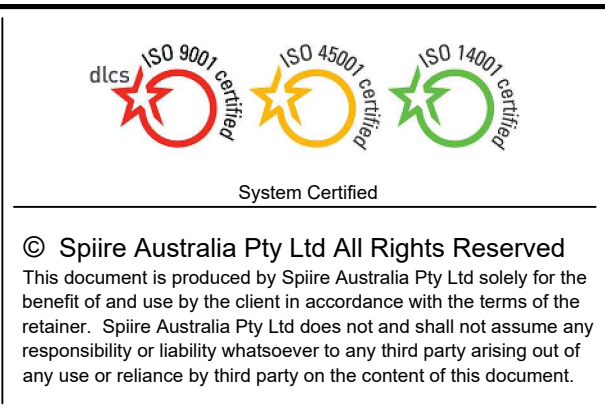
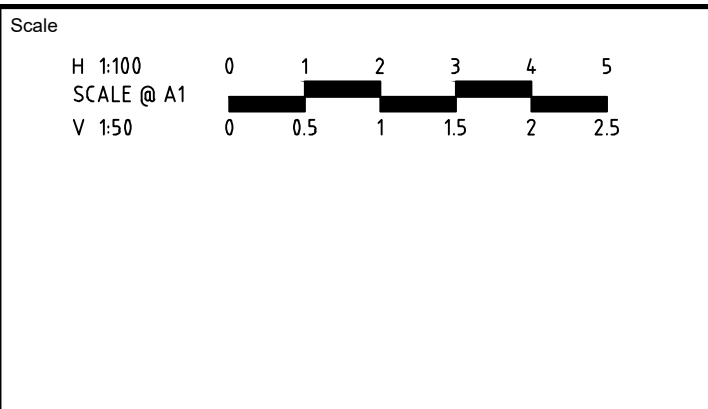
LAPWING ENTRANCE CH 34.63



LAPWING ENTRANCE CH 22.13

APPROVED CITY OF BALLARAT
By D. Hastings, 13 May, 2022

Rev	Amendments	Approved	Date
B	LAPWING AMENDED	AW	12/04/22
A	PRELIMINARY ISSUE	AW	17/02/22

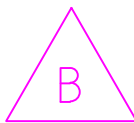


16 BRIDGE STREET BENDIGO
VICTORIA 3550 AUSTRALIA T 61 3 5448 2500
spiire.com.au ABN 55 050 029 635

Designed S.WOOD	Checked B.IBBS
Authorised A.WILKIE	Date 17/02/22

**CONROY'S GREEN
STAGE 7
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 3
CITY OF BALLARAT
SAN HUBERTO PROPERTY P/L**

PRELIMINARY Drg No **309784CR402** Rev **B**

LAPWING ENTRANCE CH 63.44

Scale

H 1:100
SCALE @ A1
V 150

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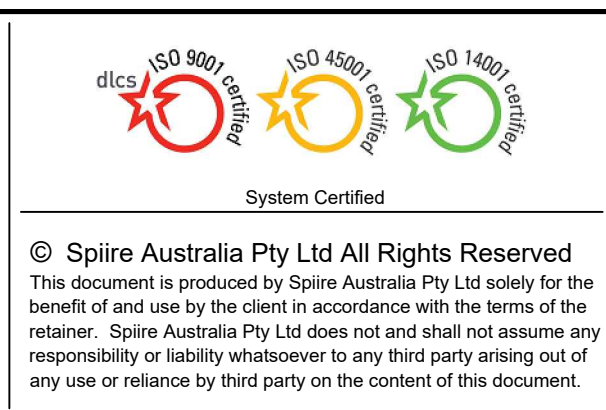


CONROY'S GREEN
STAGE 7
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 4
CITY OF BALLARAT
SAN HUBERTO PROPERTY P/L

Drp No	Rev
PRELIMINARY 309784CR403	B



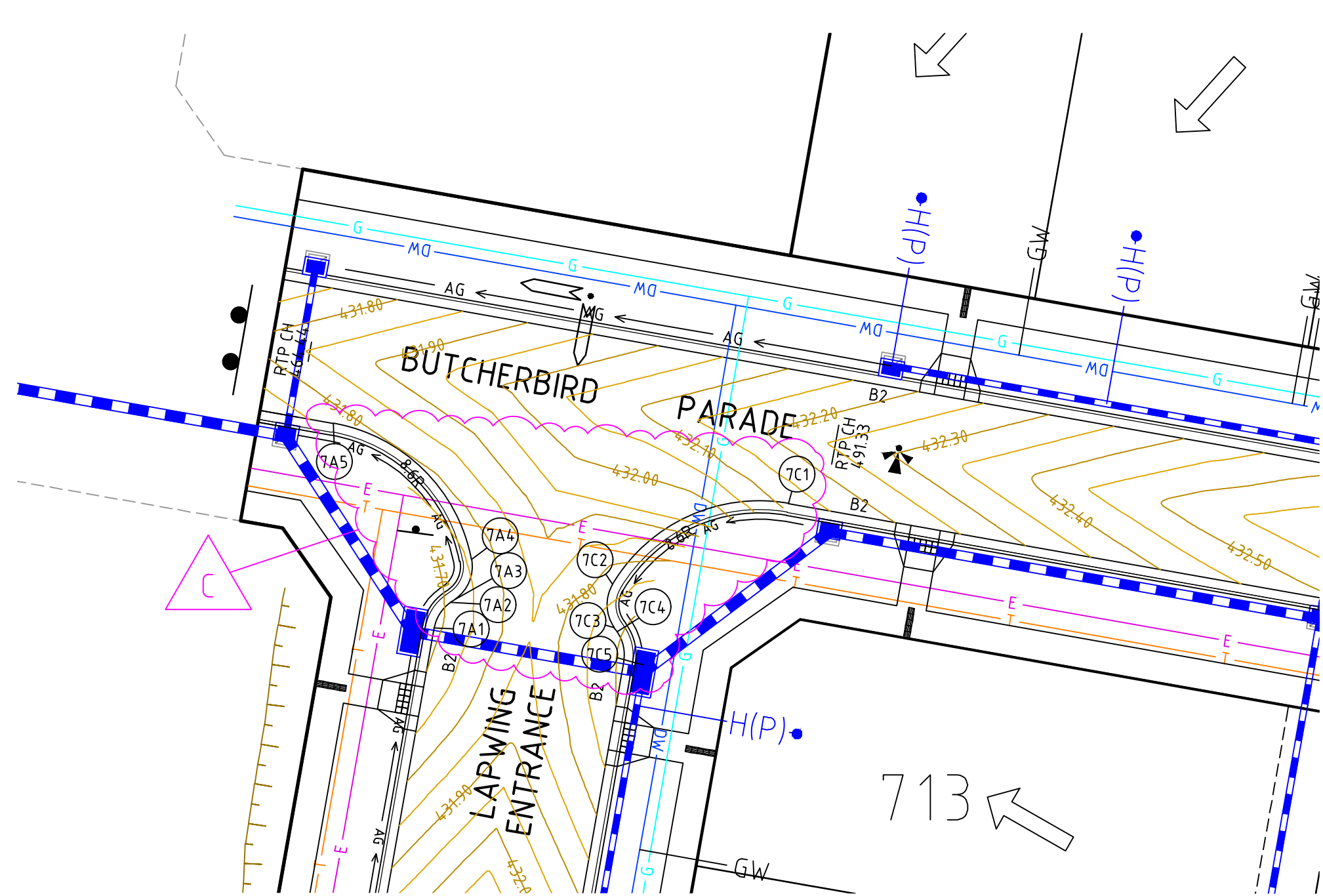
A	PRELIMINARY ISSUE	AW	17/02/22
Rev	Amendments	Approved	Date



Authorised	Date
A.WILKIE	17/02/22

PRELIMINARY	Drg No 309784CR404	Rev A
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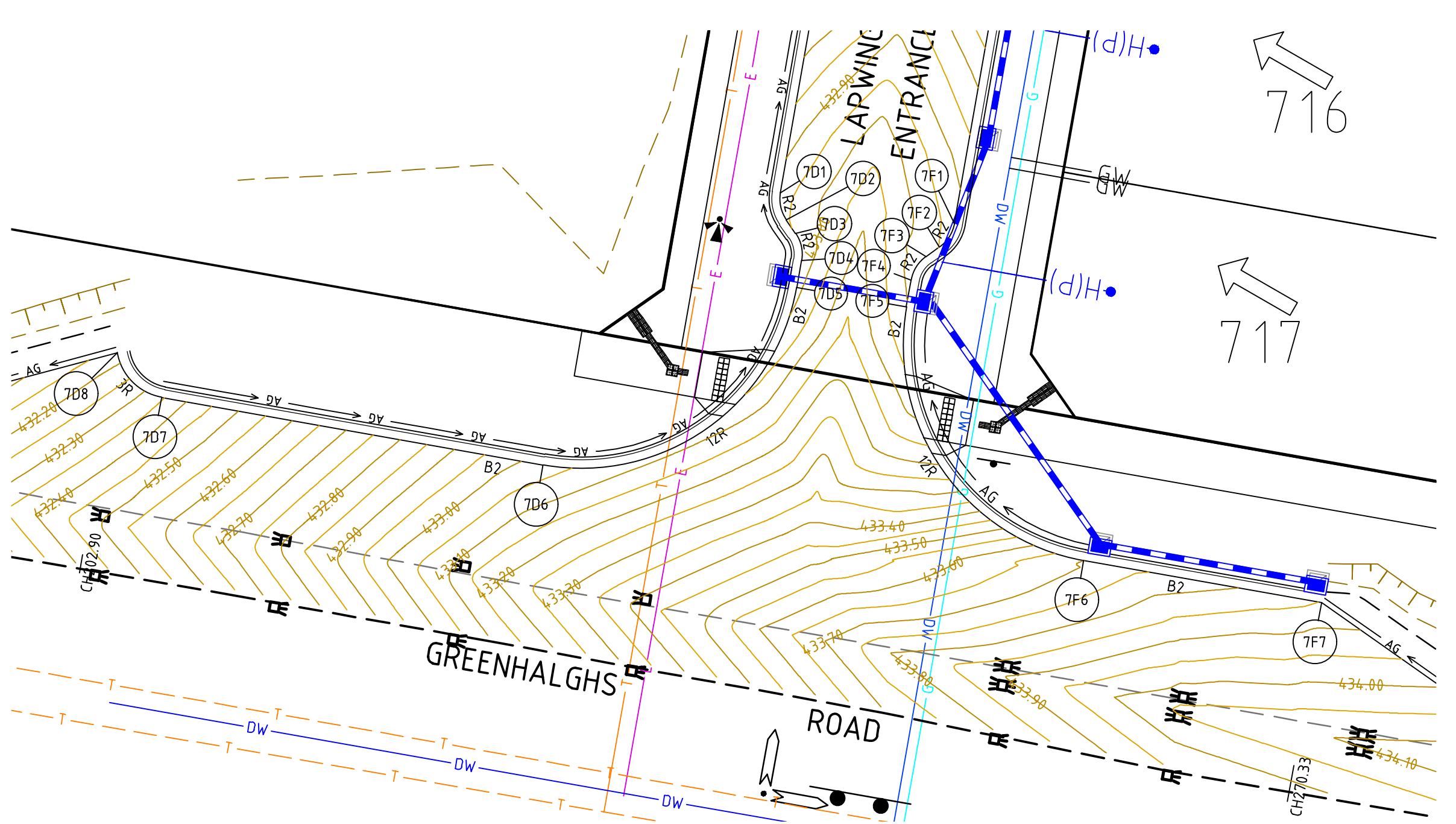
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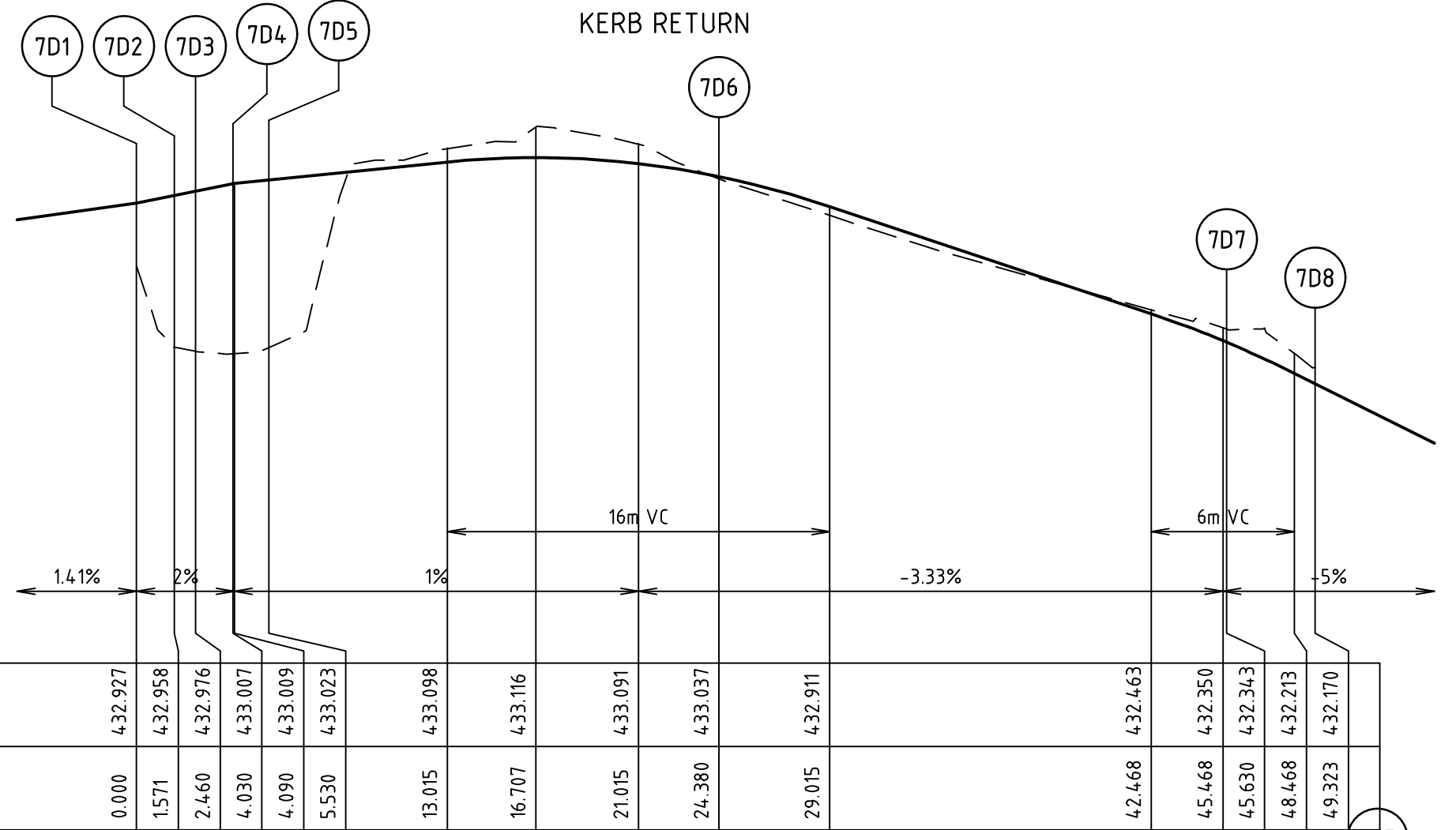
ALIGNMENT 7D

POINT NO	EASTING	NORTHING	RL	CHAINAGE
7D1	745638.871	5837008.090	432.927	0.000
7D2	745639.202	5837006.596	432.958	1.178
7D3	745639.712	5837005.867	432.976	2.460
7D4	745640.042	5837004.373	433.007	4.030
7D5	745639.781	5837002.896	433.023	5.530
7D6	745640.950	5836996.865	432.343	45.630
7D7	745640.026	5837005.153	432.992	3.245
7D8	745602.513	5836999.327	432.170	49.323

Curve no	L	Radius	Arc	Mid Ord	Qtr Ord	X	Y	L	Mid Ord RL
7D12	-45.000	2.000	1.571	0.152	0.114	0.375	0.390	0.393	432.943
7D34	45.000	2.000	1.571	0.152	0.114	0.375	0.390	0.393	432.992
7D56	90.000	12.000	18.850	3.515	2.601	3.893	4.592	4.712	433.112
7D78	70.529	3.000	3.693	0.551	0.410	0.823	0.909	0.923	432.261



GREENHALGH'S ROAD AND LAPWING ENTRANCE



VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 431.0

DESIGN LEVEL

CHAINAGE

ALIGNMENT 7D

ALIGNMENT 7C

POINT NO	EASTING	NORTHING	RL	CHAINAGE
7C1	745665.578	5837064.395	432.145	0.000
7C2	745656.698	5837060.336	431.739	10.382
7C3	745657.297	5837056.441	431.687	14.530

VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 430.0

DESIGN LEVEL

CHAINAGE

ALIGNMENT 7C

Curve no	L	Radius	Arc	Mid Ord	Qtr Ord	X	Y	L	Mid Ord RL
7C12	-69.169	8.600	10.382	1.520	1.131	2.325	2.556	2.596	431.986
7C23	-65.831	2.000	2.298	0.321	0.239	0.520	0.567	0.574	431.709
7C45	45.000	2.000	1.571	0.152	0.114	0.375	0.390	0.393	431.685

ALIGNMENT 7F

POINT NO	EASTING	NORTHING	RL	CHAINAGE
7F1	745648.423	5837006.402	432.927	0.000
7F2	745647.898	5837005.367	432.950	1.178
7F3	745646.872	5837004.602	432.976	2.460
7F4	745646.155	5837003.689	433.008	4.030
7F5	745645.788	5837001.834	433.023	5.530
7F6	745645.154	5836998.678	433.506	19.667
7F7	745668.565	5836985.623	433.853	37.630

Curve no	L	Radius	Arc	Mid Ord	Qtr Ord	X	Y	L	Mid Ord RL
7F12	45.000	2.000	1.571	0.152	0.114	0.375	0.390	0.393	432.943
7F34	-65.831	2.000	2.298	0.321	0.239	0.520	0.567	0.574	431.709
7F56	-90.000	12.000	18.850	3.515	2.601	3.893	4.592	4.712	433.112

VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 431.0

DESIGN LEVEL

CHAINAGE

ALIGNMENT 7F



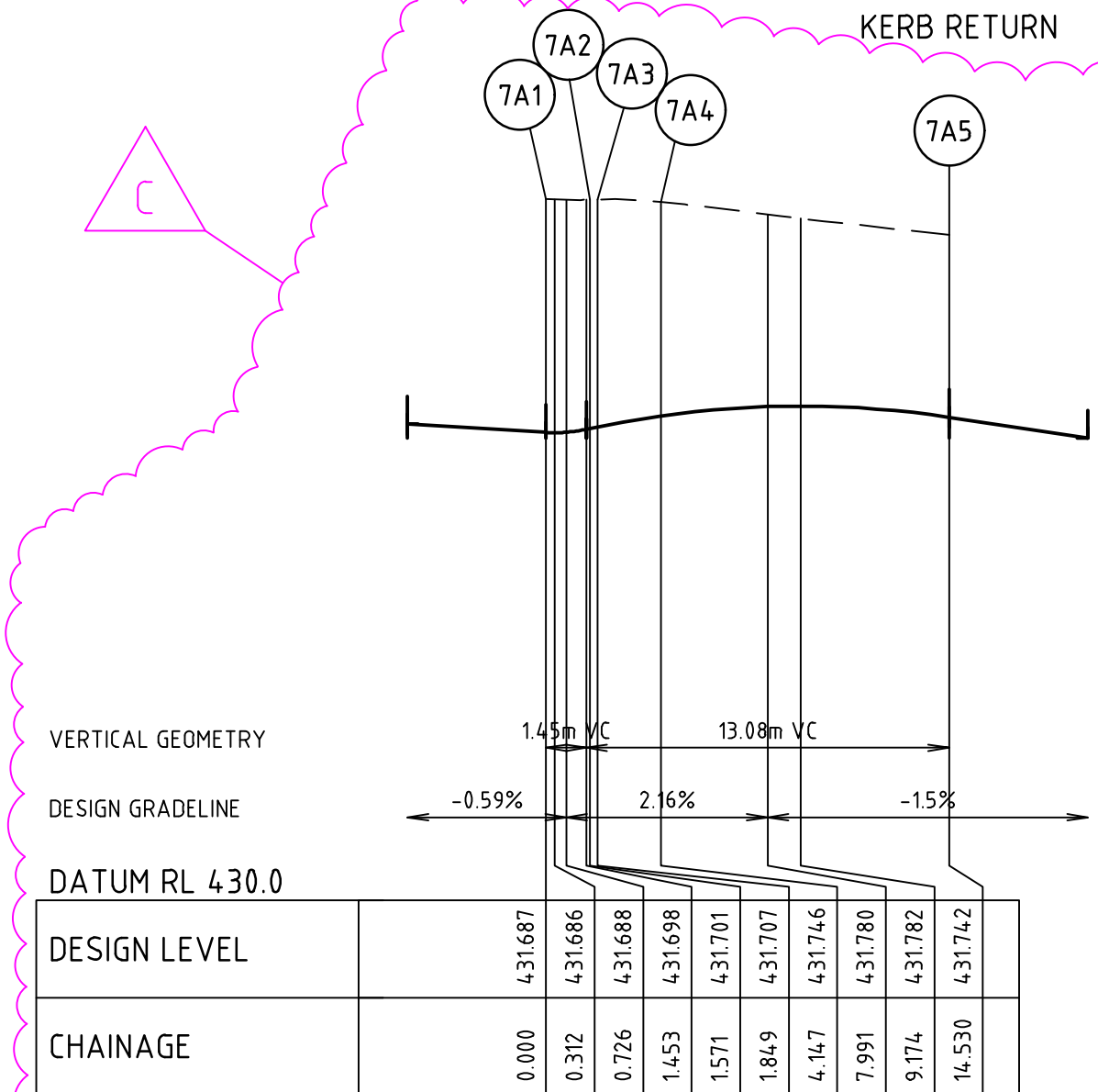
Designed
S.WOOD
Authorised
A.WILKIE

Checked
B.IBBS
Date
17/02/22

CONROY'S GREEN
STAGE 7
ROAD AND DRAINAGE
INTERSECTION DETAILS - SHEET 1
CITY OF BALLARAT
SAN HUBERTO PROPERTY P/L

PRELIMINARY 309784CR500 C

BUTCHERBIRD PARADE AND LAPWING ENTRANCE



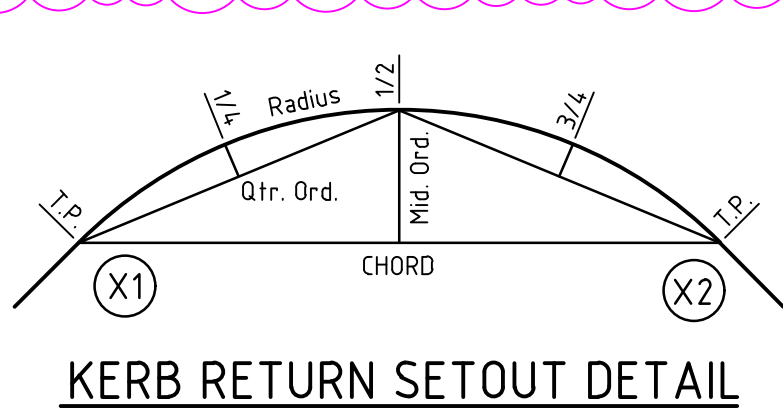
ALIGNMENT 7A

ALIGNMENT 7A

POINT NO	EASTING	NORTHING	RL	CHAINAGE
7A1	745647.715	5837058.129	431.687	0.000
7A2	745648.766	5837059.580	431.707	1.849
7A3	745649.472	5837060.466	431.728	2.998
7A4	745649.610	5837061.022	431.738	3.573
7A5	745647.176	5837066.104	431.782	9.338

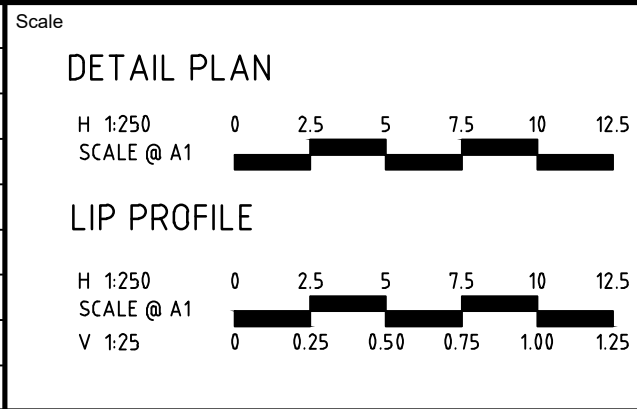
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7A12	45.000	2.000	1.571	0.152	0.114	0.375	0.390	0.393	431.688
7A34	-65.831	2.000	2.298	0.321	0.239	0.520	0.567	0.574	431.728
7A45	-69.169	8.600	10.382	1.520	1.131	2.325	2.556	2.596	431.982

ALIGNMENT 7C

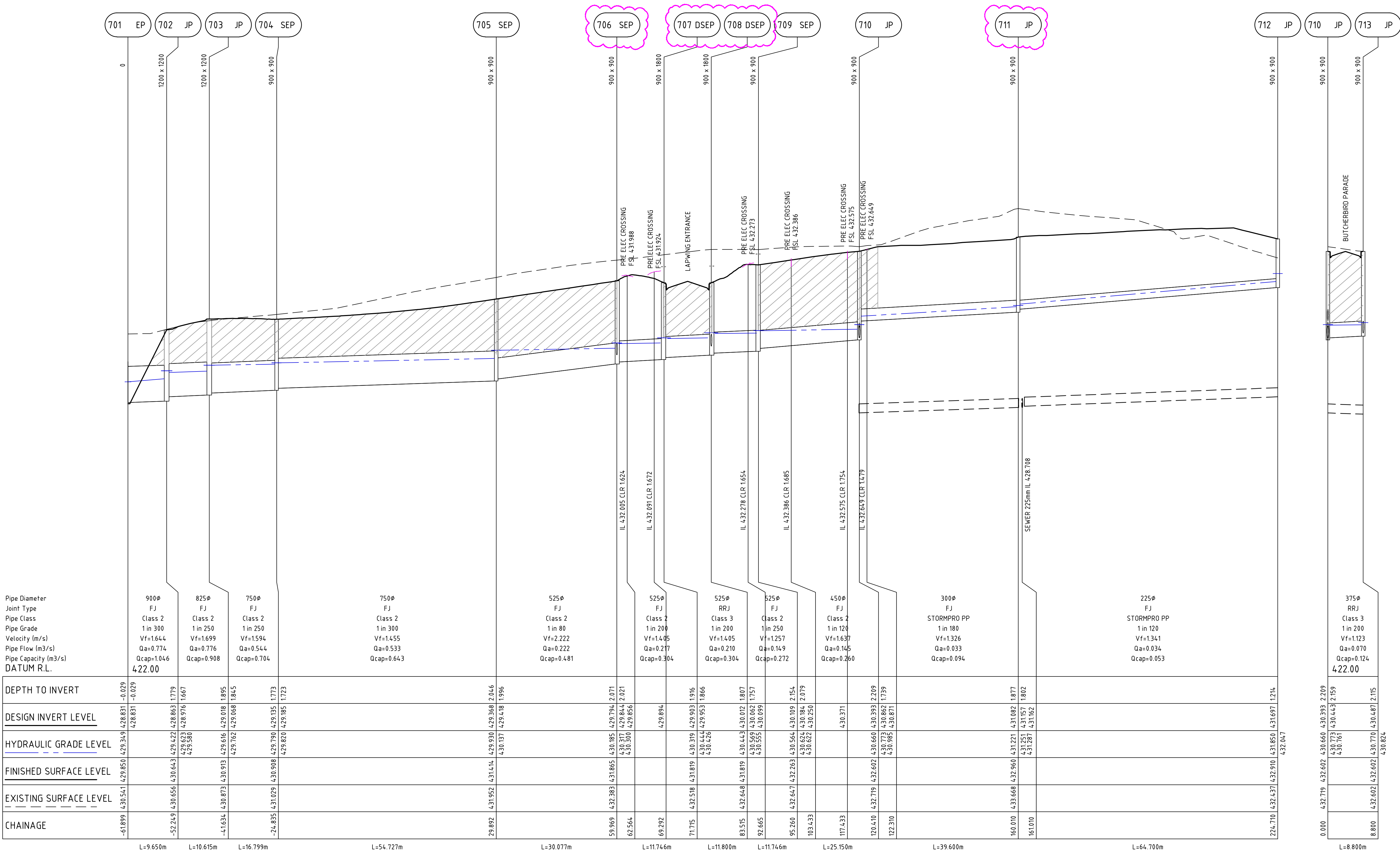


KERB RETURN SETOUT DETAIL

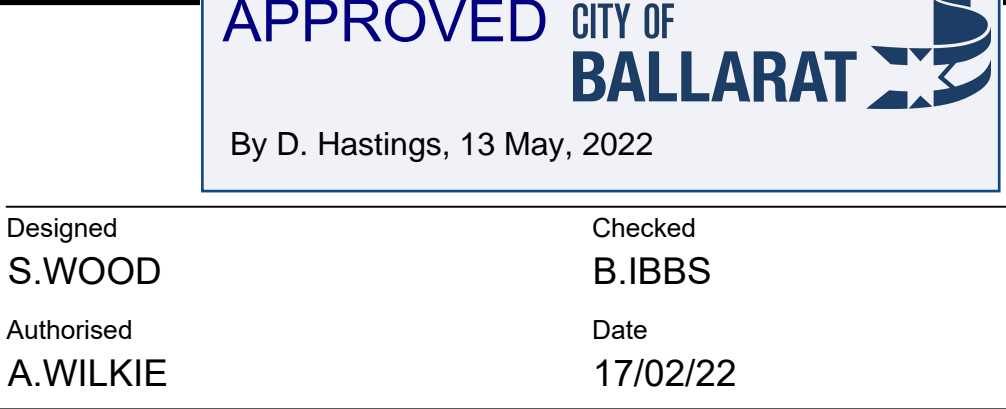
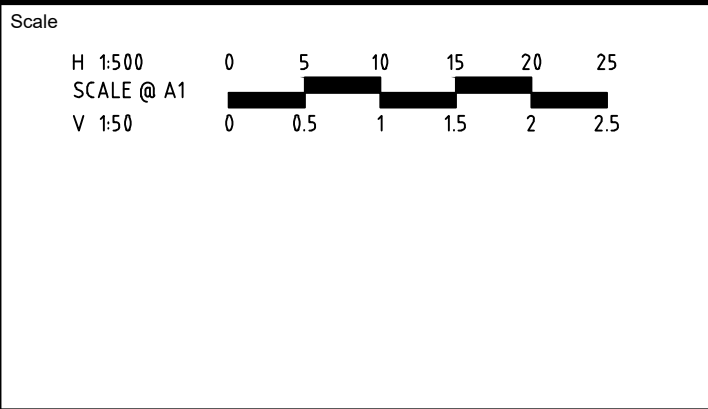
Rev	Amendments	Approved	Date
C	KERB PROFILES 7A & 7C AMENDED	A.W	09/05/22
B	LAPWING AMENDED	AW	12/04/22
A	PRELIMINARY ISSUE	AW	17/02/22



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file location: G:\30\309784\Drawings\309784\309784.dwg, plot date: 09/05/2022 9:15 AM, sheet: 13 of 17, sheets:



Rev	Amendments	Approved	Date
B	PIT TYPES AMENDED	AW	04/04/22
A	PRELIMINARY ISSUE	AW	17/02/22



CONROY'S GREEN
STAGE 7
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 1
CITY OF BALLARAT
SAN HUBERTO PROPERTY P/L

PRELIMINARY

Drg No
309784CR600

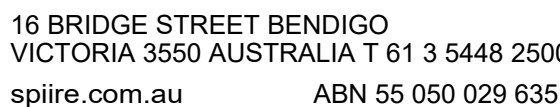
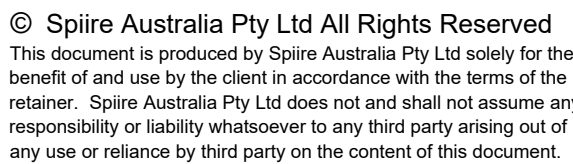
Rev
B



Scale

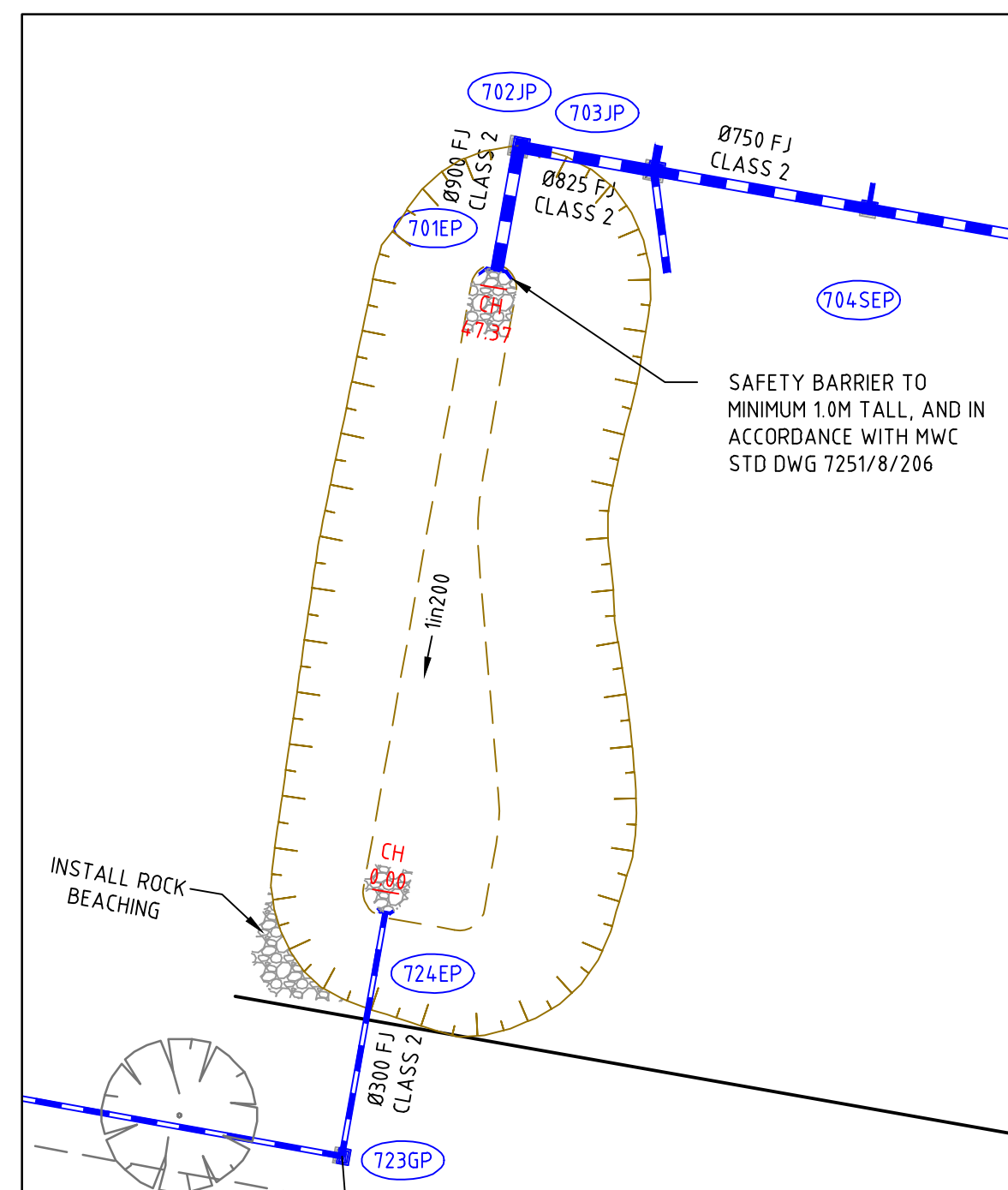
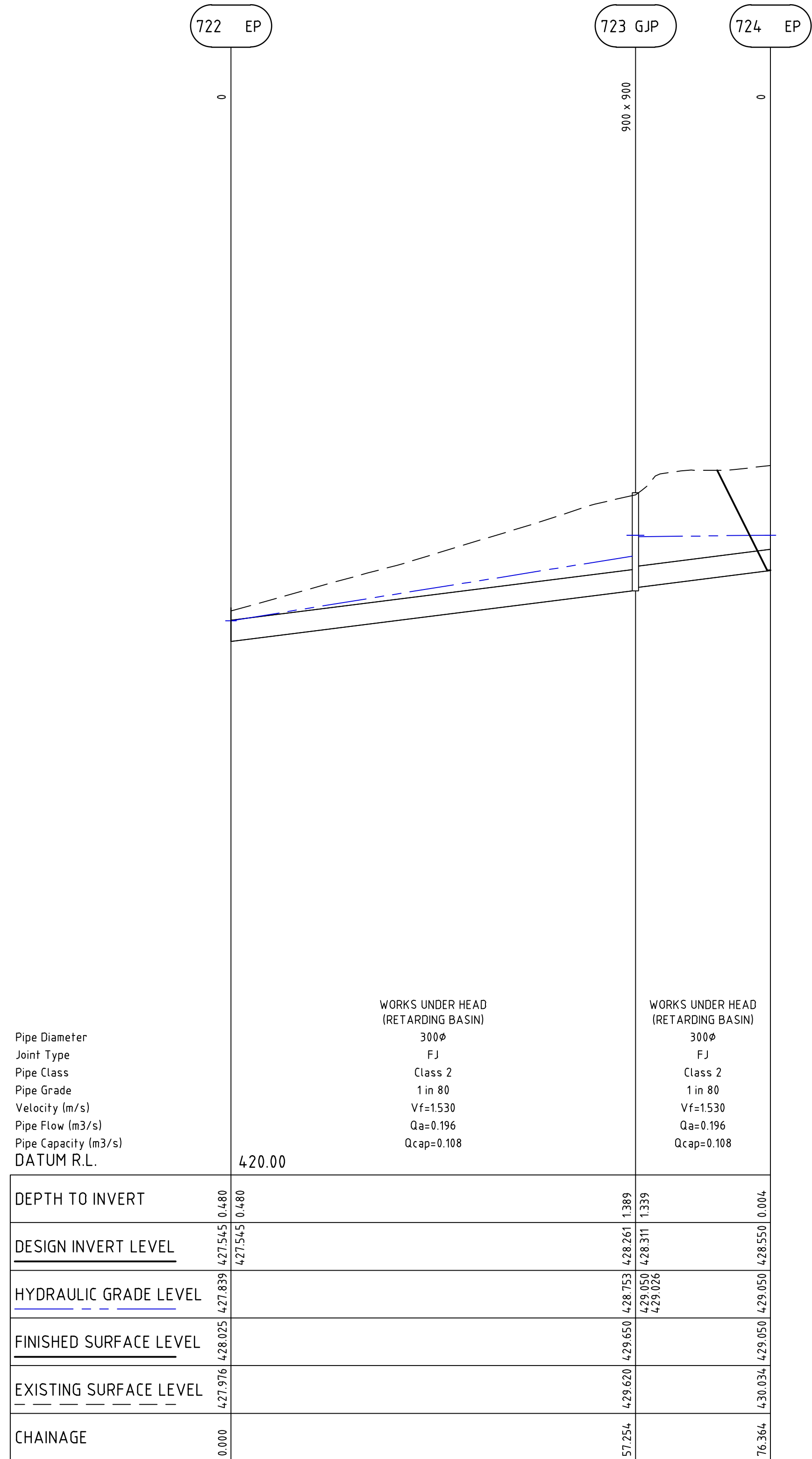
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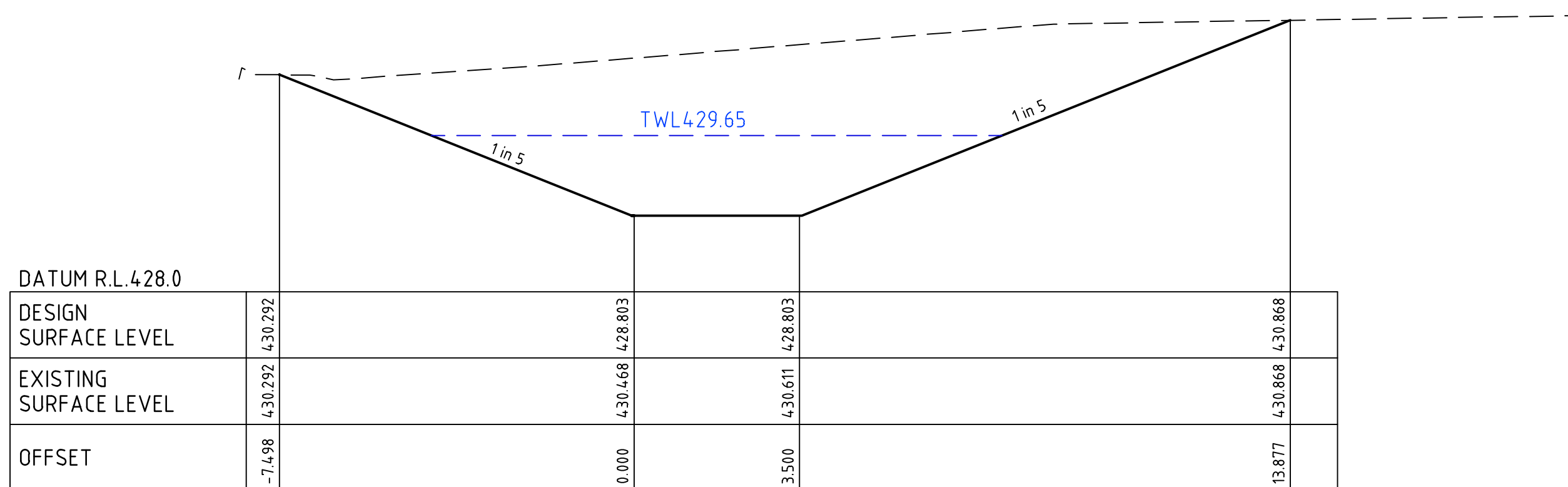


CONROY'S GREEN
STAGE 7
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 2
CITY OF BALLARAT
SAN HUBERTO PROPERTY P/L

Rev
A

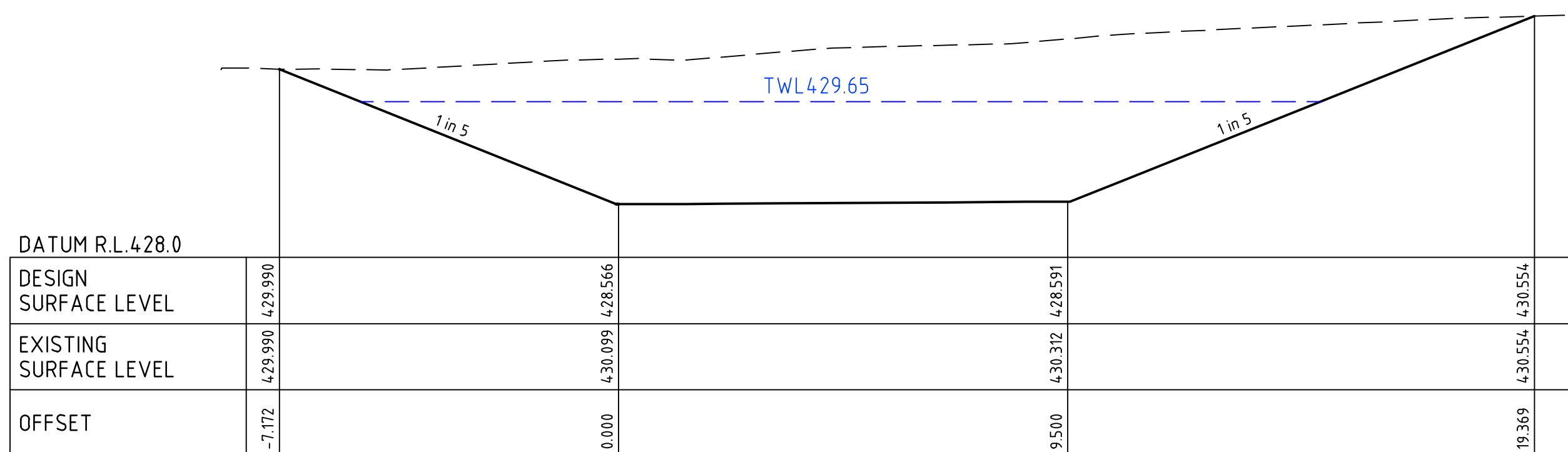


RETARDING BASIN
PLAN VIEW SCALE 1:500



RETARDING BASIN

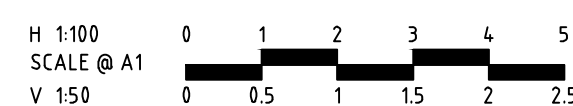
CH 47.37



RETARDING BASIN

CH 0.00

CROSS SECTIONS



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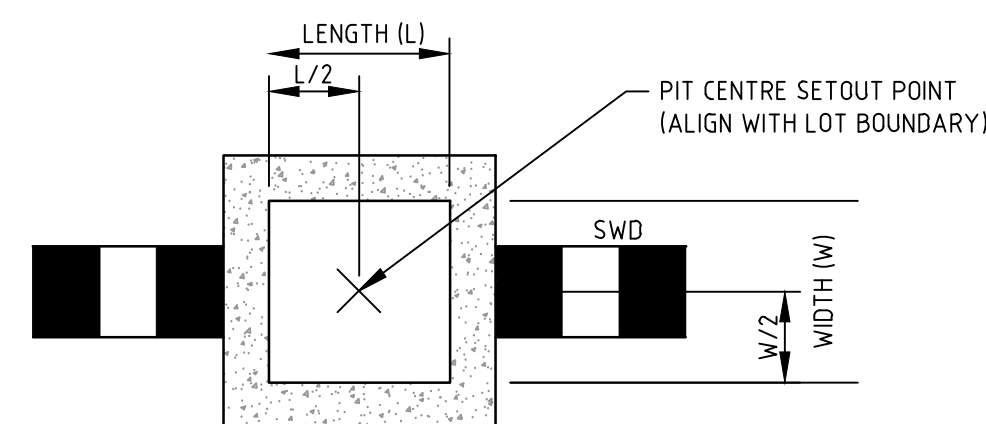
16 BRIDGE STREET BENDIGO
VICTORIA 3550 AUSTRALIA T 61 3 5448 2500
spiire.com.au ABN 55 050 029 635

Designed
S. WOOD
Authorised
A. WILKIE

Checked
B.IBBS
Date
17/02/22

DRAINAGE PIT SCHEDULE

Pit				INTERNAL		INLET		OUTLET		PIT SETOUT RL		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV		DEPTH	REMARKS
701	ENDPIPE	745528.037	5837077.854			900	428.831			429.85	1.019	CONCRETE ENDWALL
702	JUNCTION PIT	745529.733	5837087.354	1.2	1.2	825	428.976	900	428.863	430.643	1.779	REFER TO COB SD-P10-2
703	JUNCTION PIT	745540.182	5837085.489	1.2	1.2	750	429.068	825	429.018	430.913	1.895	REFER TO COB SD-P10-2
704	SIDE ENTRY PIT	745556.725	5837082.566	0.9	0.9	750	429.185	750	429.135	430.908	1.773	REFER TO COB SD-P1-2
705	SIDE ENTRY PIT	745610.617	5837073.042	0.9	0.9	525	429.418	750	429.368	431.414	2.046	REFER TO COB SD-P1-2
706	SIDE ENTRY PIT	745640.235	5837067.807	0.9	0.9	525	429.844	525	429.794	431.865	2.071	REFER TO COB SD-P1-2
						300	430.019					
707	DOUBLE SIDE ENTRY PIT	745646.616	5837057.946	0.9	1.8	525	429.953	525	429.903	431.819	1.916	REFER TO COB SD-P2-2
708	DOUBLE SIDE ENTRY PIT	745658.236	5837055.893	0.9	1.8	525	430.062	525	430.012	431.819	1.807	REFER TO COB SD-P2-2
						300	430.237					
709	SIDE ENTRY PIT	745667.611	5837062.969	0.9	0.9	450	430.184	525	430.109	432.263	2.154	REFER TO COB SD-P1-2
710	JUNCTION PIT	745692.377	5837058.592	0.9	0.9	300	430.862	450	430.393	432.602	2.209	REFER TO COB SD-P10-2
						375	430.443					
						300	430.443					
711	JUNCTION PIT	745685.485	5837019.597	0.9	0.9	225	431.157	300	431.082	432.96	1.877	REFER TO COB SD-P10-2
712	JUNCTION PIT	745749.198	5837008.337	0.9	0.9			225	431.697	432.91	1.214	REFER TO COB SD-P10-2
713	JUNCTION PIT	745693.908	5837067.258	0.9	0.9	375	430.537	375	430.487	432.602	2.115	REFER TO COB SD-P10-2
						300	430.562					
714	SIDE ENTRY PIT	745759.416	5837055.681	0.9	0.9			375	430.803	432.289	1.486	REFER TO COB SD-P1-2
715	SIDE ENTRY PIT	745670.789	5837071.344	0.9	0.9			300	430.797	432.288	1.491	REFER TO COB SD-P1-2
716	SIDE ENTRY PIT	745753.126	5837047.857	0.9	0.9			300	430.933	432.329	1.396	REFER TO COB SD-P1-2
717	SIDE ENTRY PIT	745646.9	5837002.094	0.9	0.9	300	431.631	300	431.581	433.127	1.547	REFER TO COB SD-P1-2
						300	431.631					
718	SIDE ENTRY PIT	745656.438	5836988.832	0.9	0.9	300	432.334	300	432.284	433.818	1.534	REFER TO COB SD-P1-2
												REFER TO COB SD-P10-2, ADD SIDE INLET FACING SWALE DRAIN REFER TO IDM STD DWG SD460
719	JUNCTION PIT	745668.304	5836986.735	0.9	0.9			300	432.468	433.958	1.49	REFER TO COB SD-P1-2
720	SIDE ENTRY PIT	745641.766	5837076.473	0.9	0.9			300	430.459	431.846	1.387	REFER TO COB SD-P1-2
721	SIDE ENTRY PIT	745638.826	5837003.522	0.9	0.9			300	431.795	433.098	1.303	REFER TO COB SD-P1-2
722	DRIVEABLE ENDWALL	745459.747	5837019.674			300	427.545			428.025	0.48	VICROADS ENWALL IN ACCORDANCE WITH SD 1991
723	GRATED JUNCTION PIT	745516.083	5837009.463	0.9	0.9	300	428.311	300	428.261	429.65	1.389	REFER TO COB SD-P10-2
724	ENDPIPE	745519.442	5837028.276					300	428.55	428.55	0	CONCRETE HEADWALL
717A	JUNCTION PIT	745650.312	5837011.057	0.9	0.9	300	431.197	300	431.147	432.981	1.834	REFER TO COB SD-P10-2



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

**CONROY'S GREEN
STAGE 7
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 3
CITY OF BALLARAT
SAN HUBERTO PROPERTY P/L**

PRELIMINARY Drg No 309784CR602

Rev
B

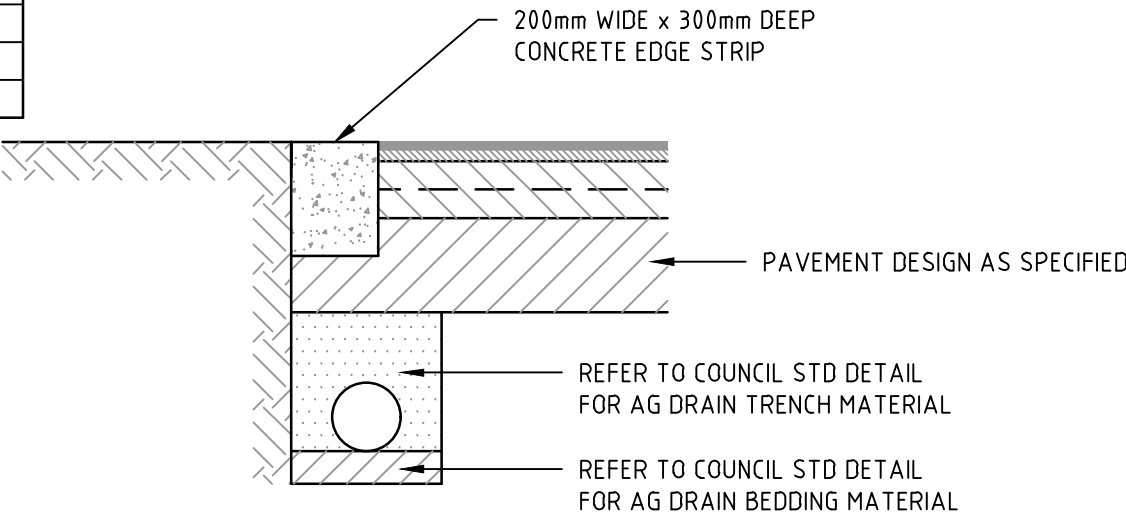
DESIGN PAVEMENT PROFILE

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)	DEPTH (mm)	DEPTH (mm)
		TYPE A* (ACCESS STREET 1)	TYPE B* (ACCESS STREET 2)	GRAVEL SHOULDER
ASPHALT WEARING COURSE (mm)	SIZE 10mm TYPE N ASPHALT CLASS 320 BITUMEN	40	40 (TYPE H)	
SAMI LAYER		YES	YES	
PRIMER COURSE	PRIME OR 7mm PRIMERSEAL	YES	YES	
BASE COURSE (mm)	CLASS 1 or 2 20mm FCR, COMPACTED TO 98% (MMD)	150	150	150
SUBBASE COURSE (mm)	CLASS 3 20mm or 40mm FCR, COMPACTED TO 97% (MMD)	220	180	
LOWER SUBBASE (mm)	CLASS 4 FCR WITH A MINIMUM CBR OF 15 AND COMPACTED TO A MINIMUM DENSITY RATIO OF 95% MODIFIED.	-	130	
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	200	
TOTAL PAVEMENT DEPTH		560	680	150

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

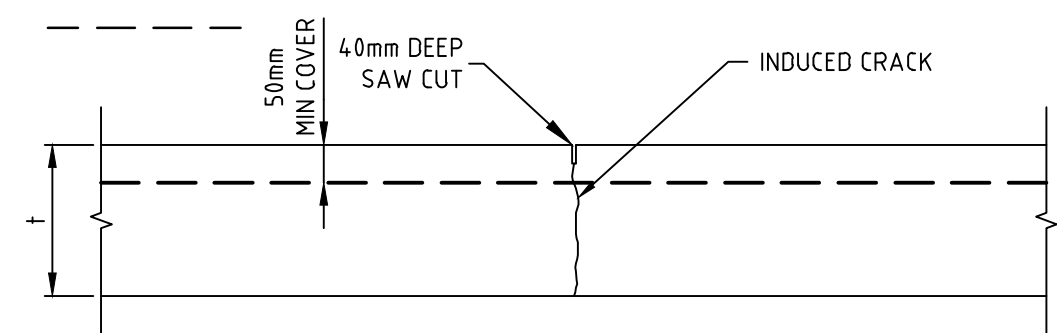
GENERAL NOTES:

1. ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE, OR VIC ROADS STANDARDS FOR NON RESIDENTIAL STREETS.
2. ALL CONCRETE TO BE MINIMUM 32MPa COMPRESSIVE STRENGTH
3. CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY AROUND REINFORCEMENT AND IN CORNERS OF FORMS.
4. PRIOR TO CASTING, THE UNBOUND GRANULAR SUBBASE MUST BE DAMP TO ENSURE NO EARLY "DRYING OUT" OF THE CONCRETE.
5. CURING OF CONCRETE IS ESSENTIAL - IDEALLY BY MAINTAINING WET HESSIAN OR SEALING WITH PLASTIC SHEETING.
6. SAW CUTTING OF CONCRETE SHOULD BE COMMENCED AS SOON AS CONCRETE PERMITS BY EXPERIENCED CONTRACTORS, BUT NO LATER THAN 12 HOURS AFTER POUR.
7. 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.
8. ALL JOINTS TO BE APPROPRIATELY SEALED TO RESIST THE INTRUSION OF SAND AND GRAVEL AND TO MINIMISE THE INGRESS OF WATER.

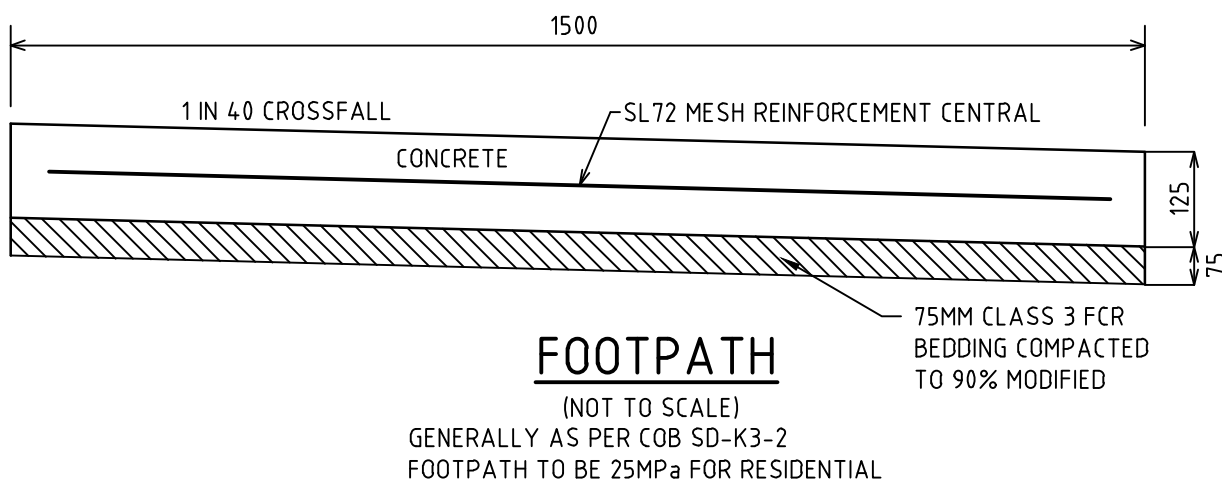
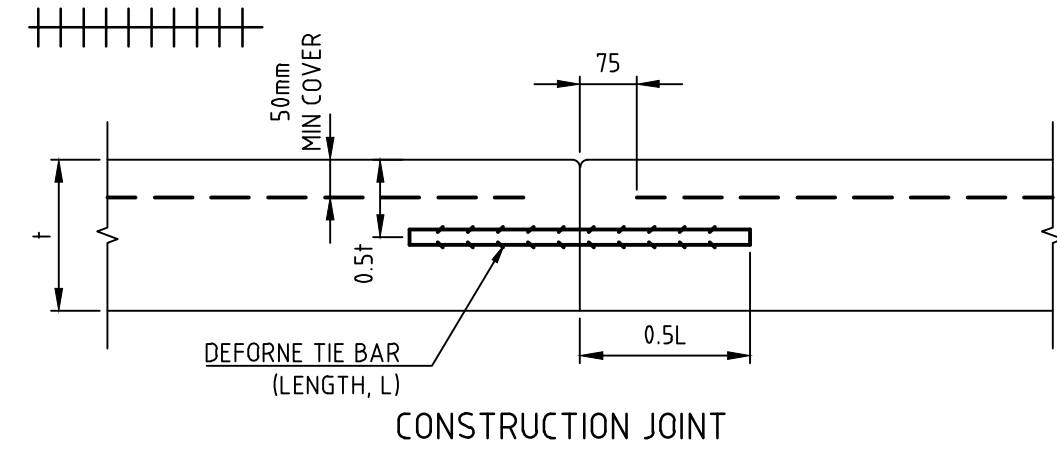


LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE DETAIL

SAW CUT



CONSTRUCTION JOINT



PAVEMENT DETAILS

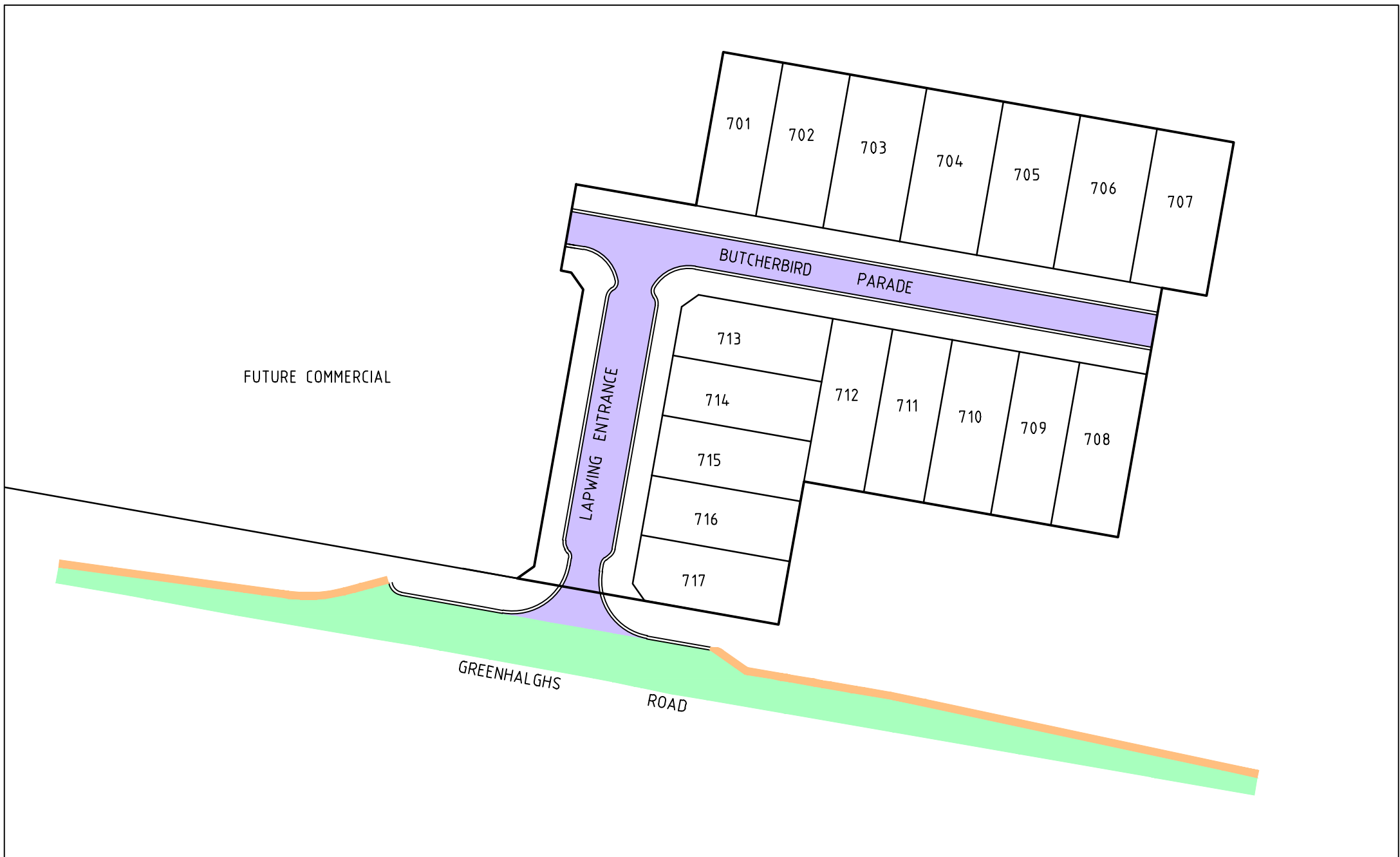
THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY GTS WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIIRE IS NOT RESPONSIBLE FOR THE WORK OF GTS.

THE DESIGN HAS BEEN EXTRACTED FROM THE GTS REPORT ON "520 GREENHALGHS 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.

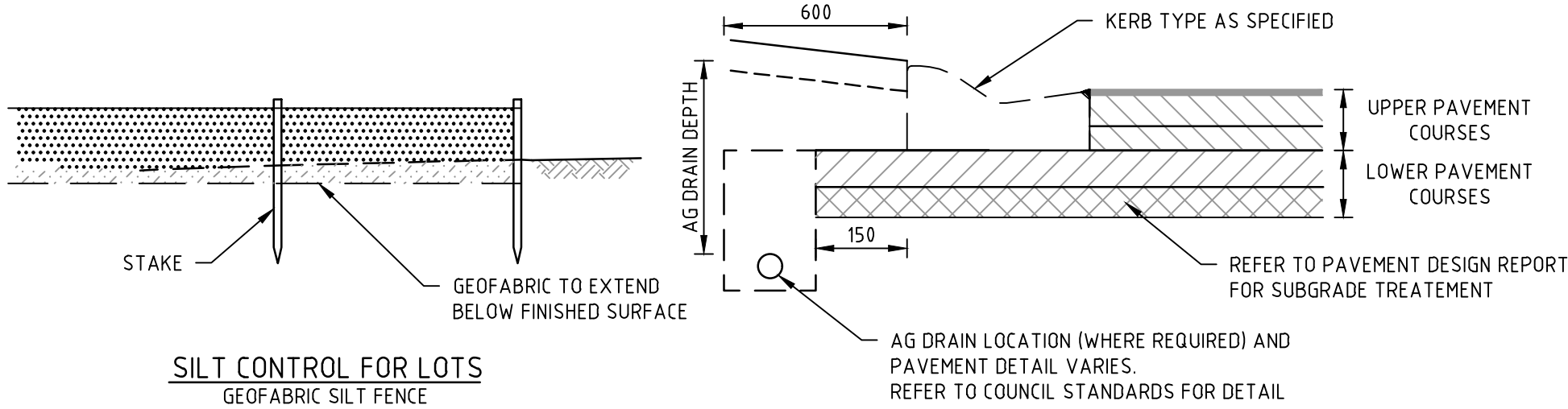
SPIIRE DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS.

ANY QUERIES IN RESPECT TO THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS SHOULD BE ADDRESSED TO GTS AND SENT TO SPIIRE.

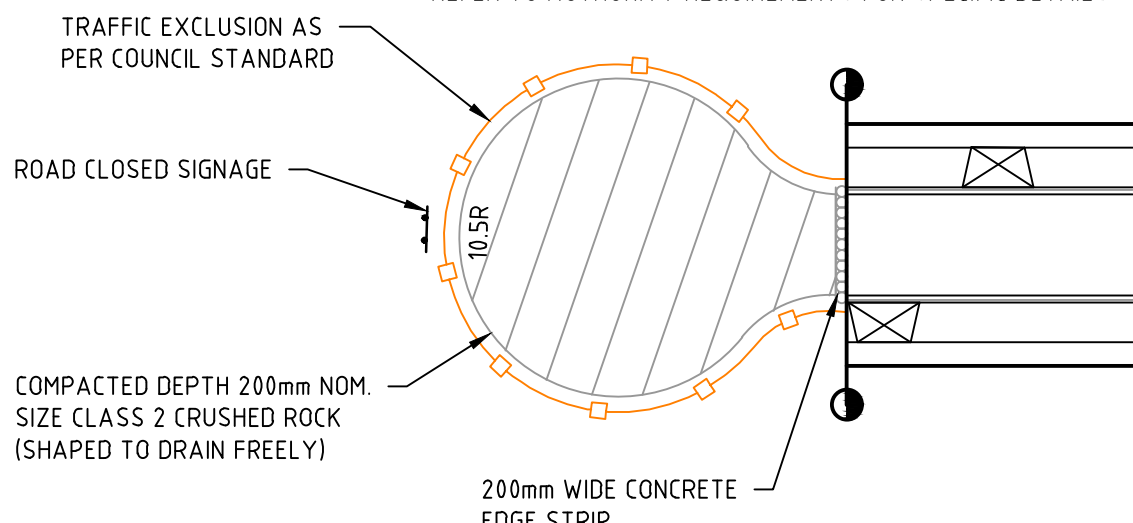


PAVEMENT PLAN

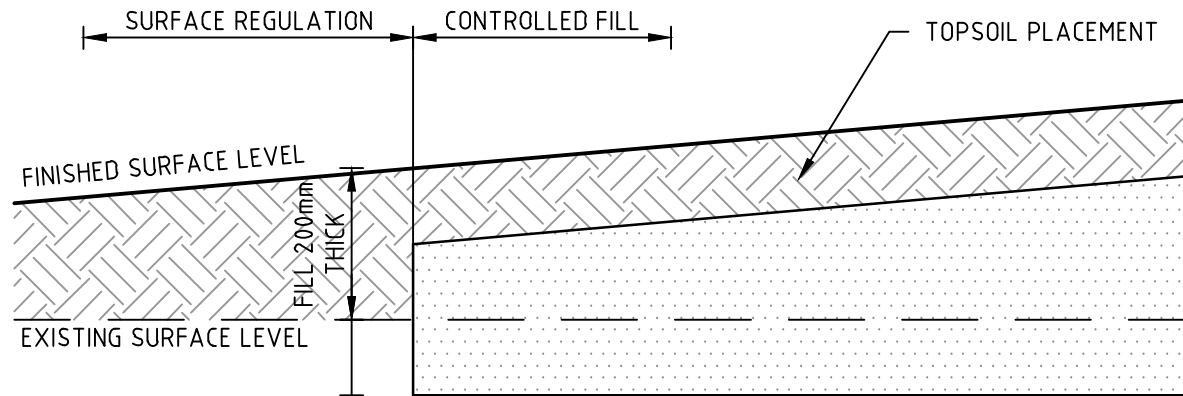
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SCALE @ A1



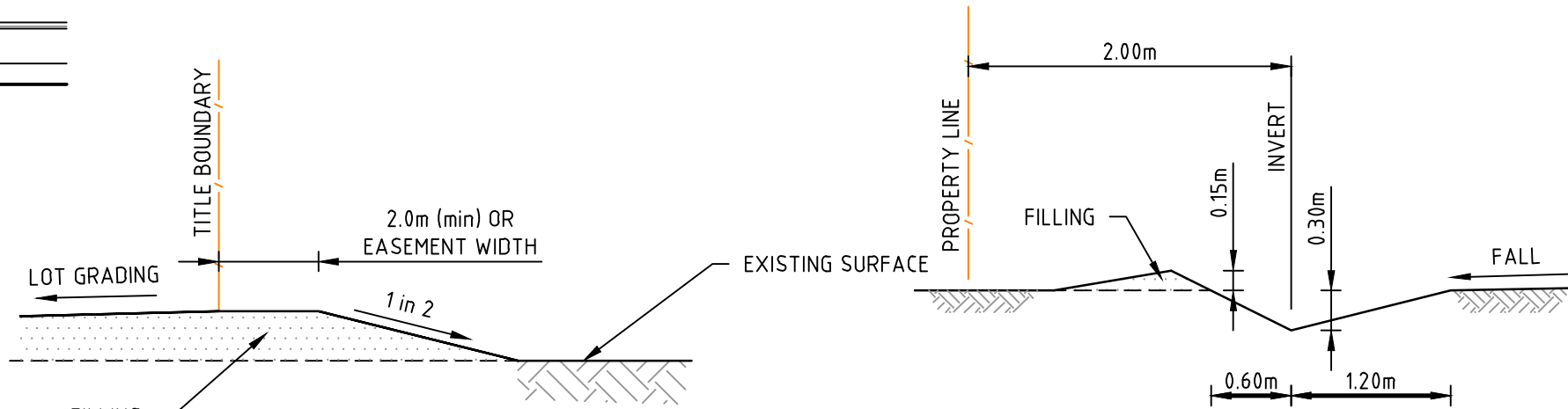
TYPICAL SUBSURFACE DRAIN DETAIL FOR NON-EXPANSIVE SUBGRADE



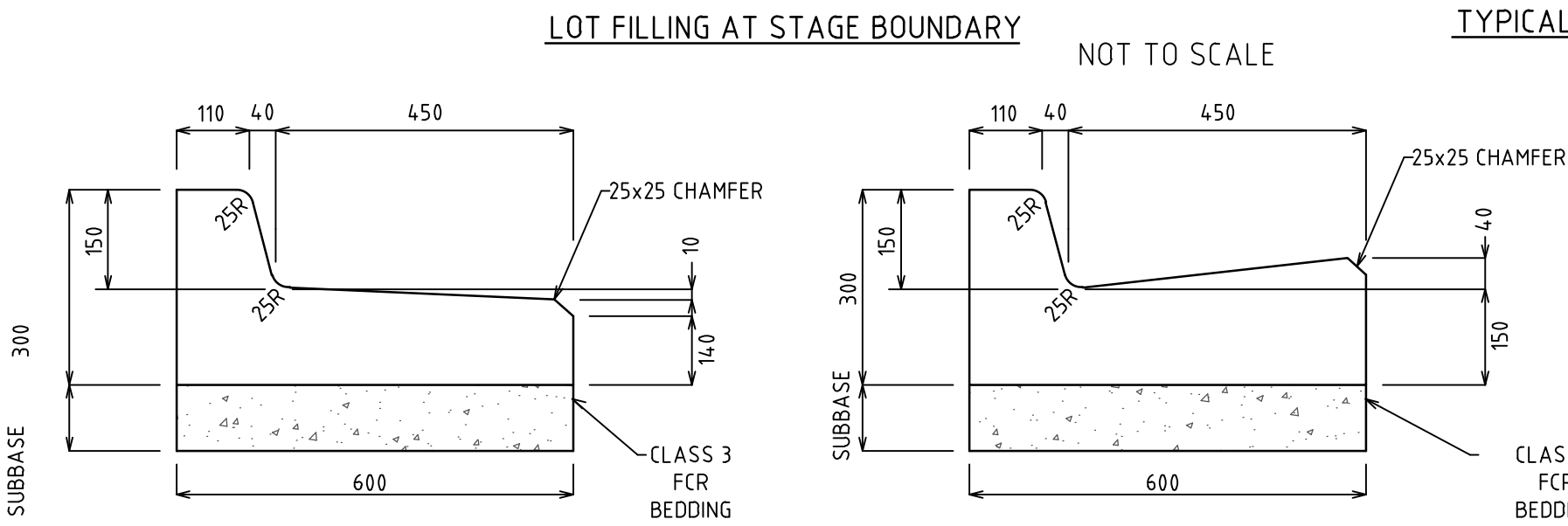
TEMPORARY TURNING AREA DETAIL
NOT TO SCALE



LOT REGRADING DETAIL



TYPICAL CATCH DRAIN SECTION



B3 - STANDARD KERB & CHANNEL

B2 - STANDARD KERB & CHANNEL

STANDARD KERB PROFILES
NOT TO SCALE



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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
Authorised
A.WILKIE

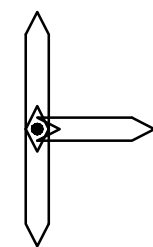





Checked
B.IBBS
Date
17/02/22

CONROY'S GREEN
STAGE 7
ROAD AND DRAINAGE
PAVEMENT AND TYPICAL DETAILS - SHEET 1
CITY OF BALLARAT
SAN HUBERTO PROPERTY P/L

PRELIMINARY Drg No 309784CR700 Rev B

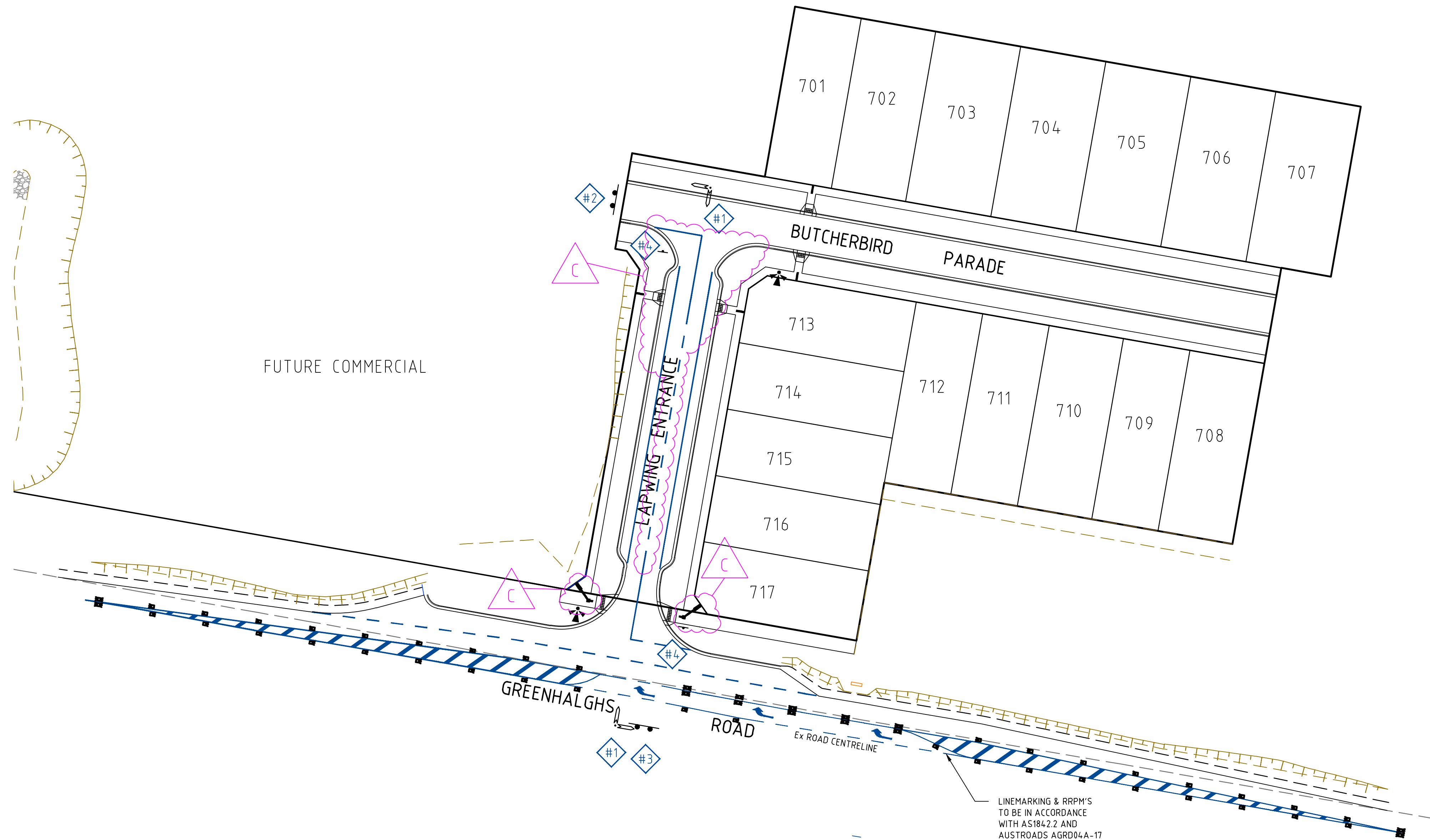


LEGEND

- #1  STREET NAME PLATES TO BE IN ACCORDANCE WITH CITY OF BALLARAT STANDARDS, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE
- #2  G9-20
D4-5
- #3  D4-2-1
- #4  R1-2A
- #5  R2-3(L)
-  TACTILE GROUND SURFACE INDICATORS (TGSI's)

NOTE:

1. 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.
2. LINEMARKING TO BE IN ACCORDANCE WITH AS1742.2 - 2009



APPROVED CITY OF BALLARAT
By D. Hastings, 13 May, 2022

Rev	Amendments	Approved	Date
C	ADDITION OF GIVE WAY SIGN ON LAPWING, LINEMARKING AND RRPM'S AMENDED	A.W	09/05/22
B	ADD SIGNS #3, AMEND SIGN #4 POSITION	AW	04/04/22
A	PRELIMINARY ISSUE	AW	17/02/22

Scale
H 1500
SCALE @ A1




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**CONROY'S GREEN
STAGE 7
ROAD AND DRAINAGE
SIGNAGE AND LINEMARKING - SHEET 1**
CITY OF BALLARAT
SAN HUBERTO PROPERTY P/L
PRELIMINARY Drg No 309784CR800 Rev C