

CONROY'S GREEN STAGE 6 SAN HUBERTO PROPERTIES P/L

LEGEND

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.
- T.B.M.'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, DESLUDGED 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

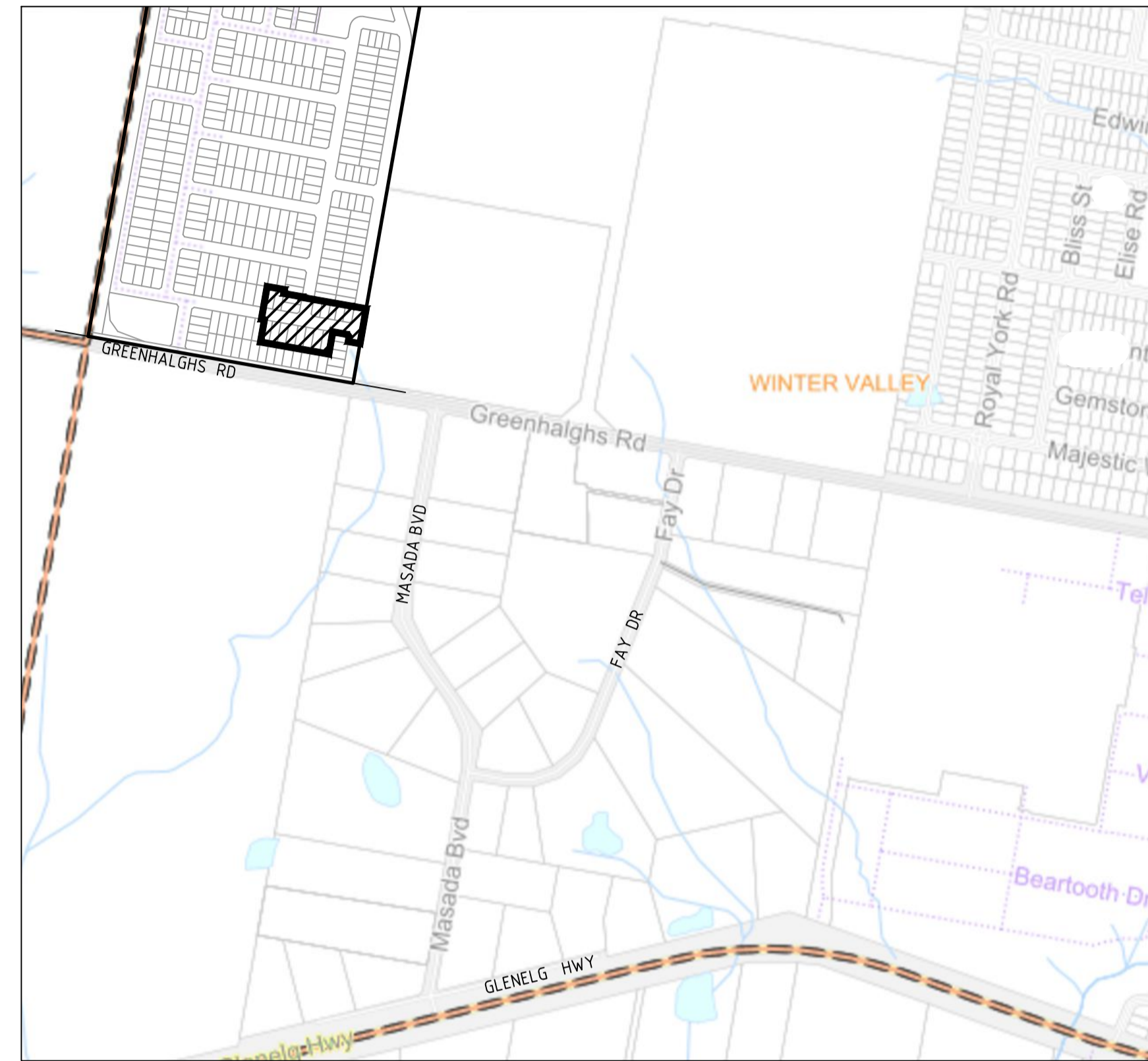
- PAVEMENT DEPTHS MAY BE MODIFIED AS DIRECTED BY THE SUPERINTENDENT. PAVEMENT TO BE BOXED OUT TO MINIMUM DEPTH DENOTED, INSPECTED AND IF SUBGRADE IS IN QUESTION, FURTHER TESTING CARRIED OUT TO DETERMINE FINAL PAVEMENT DEPTH.
- WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED 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

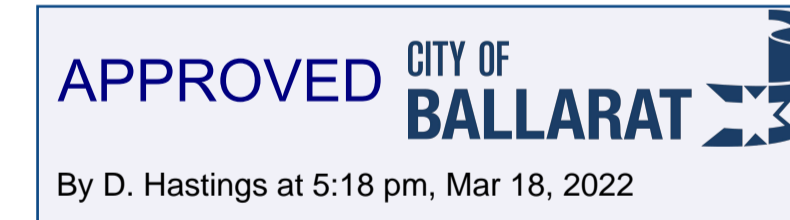
- LINEMARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742 SERIES UNLESS NOTED OTHERWISE. STREET SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH COUNCIL STANDARDS.
- ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH AS 1742-3.
- TACTILE GROUND 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.



LOCALITY PLAN
NOT TO SCALE



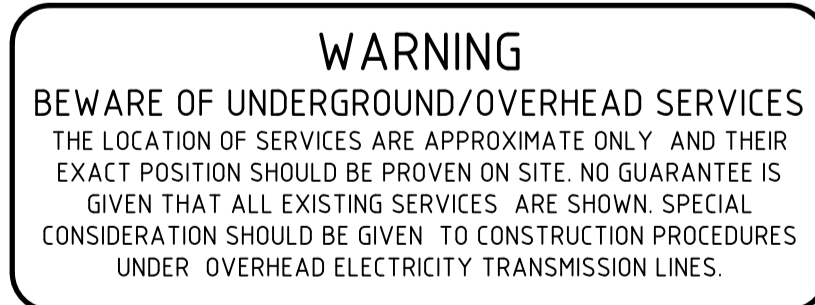
DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
CR100	GENERAL NOTES - SHEET 1	1	B
CR200	ROAD LAYOUT PLANS - SHEET 1	2	C
CR201	ROAD LAYOUT PLANS - SHEET 2	3	A
CR300	ROAD LONG SECTIONS - SHEET 1	4	A
CR301	ROAD LONG SECTIONS - SHEET 2	5	A
CR400	ROAD CROSS SECTIONS - SHEET 1	6	A
CR402	ROAD CROSS SECTIONS - SHEET 3	7	A
CR403	ROAD CROSS SECTIONS - SHEET 4	8	A
CR404	ROAD CROSS SECTIONS - SHEET 5	9	A
CR405	ROAD CROSS SECTIONS - SHEET 6	10	A
CR500	INTERSECTION DETAILS - SHEET 1	11	B
CR600	DRAINAGE LONG SECTIONS - SHEET 1	12	C
CR700	PAVEMENT AND TYPICAL DETAILS - SHEET 1	13	A
CR800	SIGNAGE AND LINEMARKING - SHEET 1	14	B

SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		GAS		NBN (TELECOM)		ELECTRICITY			
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE		U/G CABLE	
							SIDE	OFFSET	SIDE	OFFSET
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
BUTCHERBIRD PARADE	N	2.95	N	2.40	S	1.80	N	1.0x	S	2.70

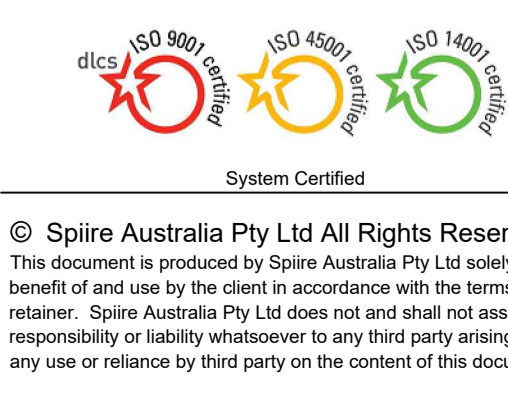
- TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG'S.
- GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.
- x = OFFSET FROM BACK OF KERB



DESCRIPTION	EXISTING	PROPOSED
WATER MAIN, VALVE AND HYDRANT	DW	DW
UNDERGROUND ELECTRICITY	E	E
TELECOMMUNICATIONS & SERVICE PIT	T	T
GAS MAIN	G	G
BRANCH SEWER & MAINTENANCE STRUCTURE	S	S
SEWER & MAINTENANCE STRUCTURE	S	S
SEWER RISING MAIN	SRM	SRM
CENTRAL INVERT		
COUNCIL STORMWATER DRAIN AND PIT		
STORM WATER DRAINAGE PROPERTY INLETS		
COUNCIL STORM WATER PITS		
HOUSE DRAIN	H	H
AG DRAIN AND FLUSHER	AG	AG
STORM WATER DRAINAGE PIT TYPE & NUMBER	EX219EP	302JP
GAS & WATER CONDUITS	GW	GW
RIDGE / CHANGE OF GRADE LINE		
SURFACE CONTOUR MINOR	-169.00	169.00
SURFACE CONTOUR MAJOR	-168.90	168.90
SURFACE LEVEL	E123.45	F124.68
BATTER LEVEL (TOP / TOE)	T124.80	T124.80
EARTHWORKS GRADE		1 in 150
SIGN AND POST		
STREET SIGN		
PERMANENT SURVEY MARK		
TEMPORARY BENCH MARK		
BOLLARD		
ROAD CHAINAGES	CH116.57 (L/R)TP CH116.57	CH116.57 (L/R)TP CH116.57
LOT CHAINAGES	CH20.06	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

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Rev	Description	AW	Date
B	COUNCIL COMMENTS	AW	07/03/22
A	PRELIMINARY ISSUE	AW	05/11/21
	Amendments	Approved	Date

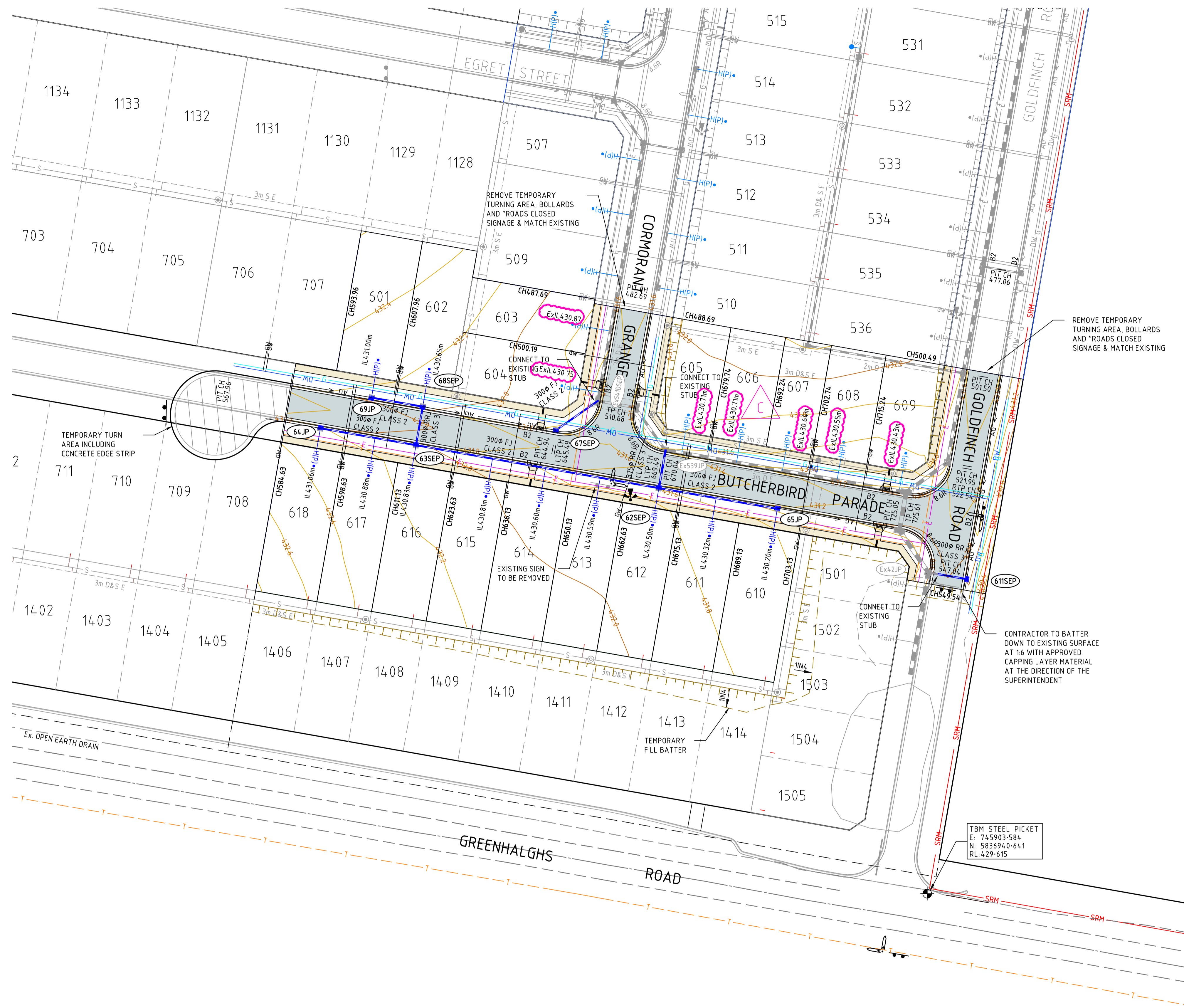


Designed
S.WOOD
Authorised
A.WILKIE

Checked
B.IBBS
Date

**CONROY'S GREEN
STAGE 6
ROAD AND DRAINAGE
GENERAL NOTES - SHEET 1**
CITY OF BALLARAT
SAN HUBERTO PROPERTIES P/L

PRELIMINARY Drg No **309528CR100** Rev **B**

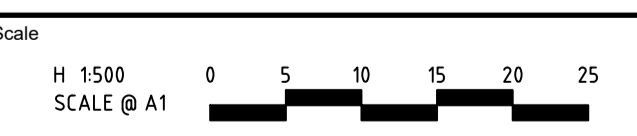


WARNING
 BEWARE OF UNDERGROUND/OVERHEAD SERVICES
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APPROVED CITY OF BALLARAT
 By D. Hastings at 5:19 pm, Mar 18, 2022

file name: 309528CR200.dwg, location: c:\p\proj\309528\309528.dwg, plot date: 07/03/2022, 9:35 AM, Sheet: 2 of 14, Sheets

Rev	Amendments	Approved	Date
C	ADD EXISTING HOUSE DRAIN DETAILS	AW	07/03/22
B	LANDSCAPING AMENDMENTS	AW	21/02/22
A	PRELIMINARY ISSUE	AW	05/11/21



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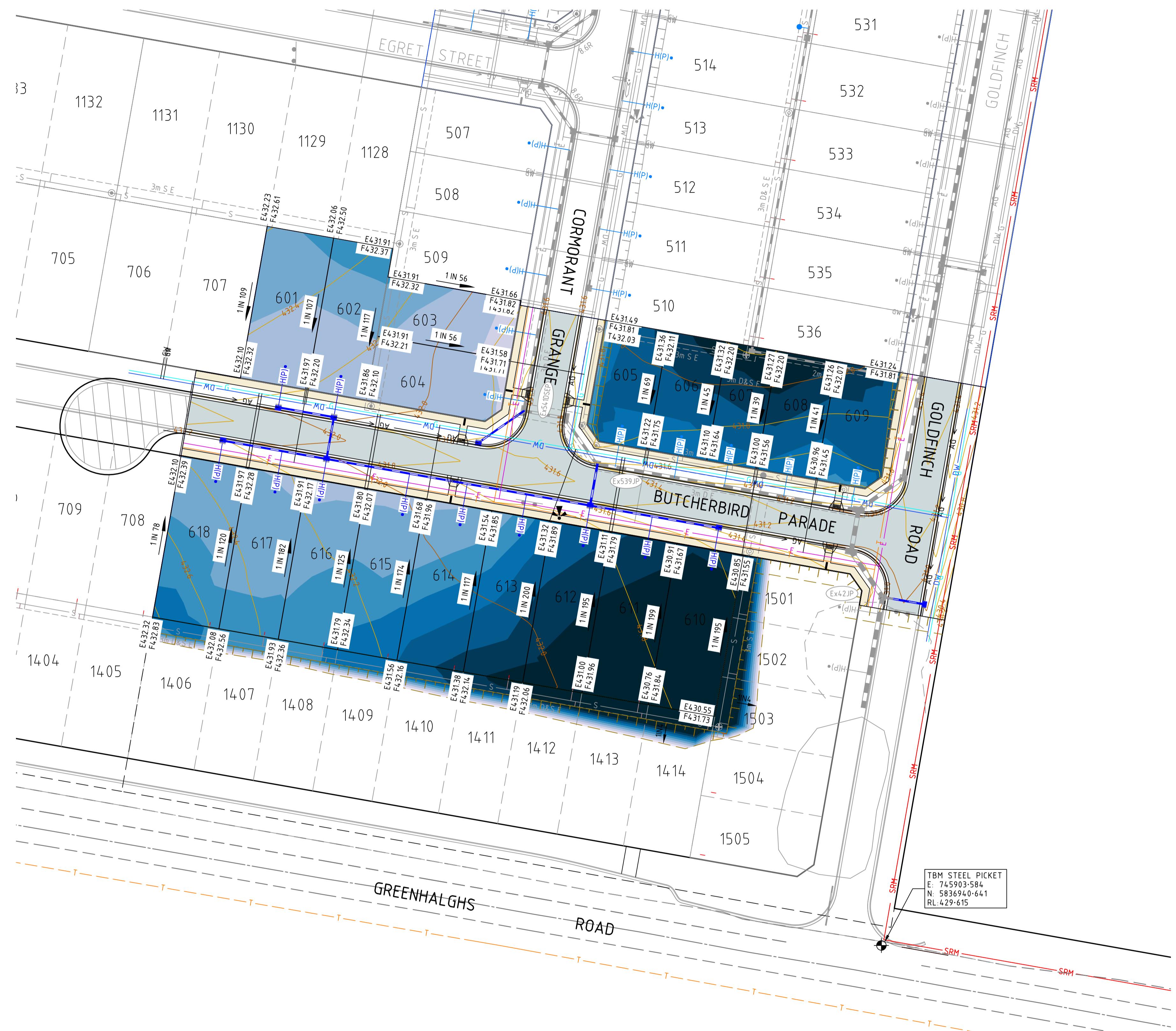
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CONROYS GREEN
STAGE 6
 ROAD AND DRAINAGE
 ROAD LAYOUT PLANS - SHEET 1
 CITY OF BALLARAT
 SAN HUBERTO PROPERTIES P/L

PRELIMINARY Dwg No: 309528CR200 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	+	



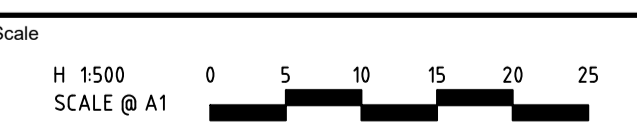
TBM STEEL PICKET
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	Amendments		



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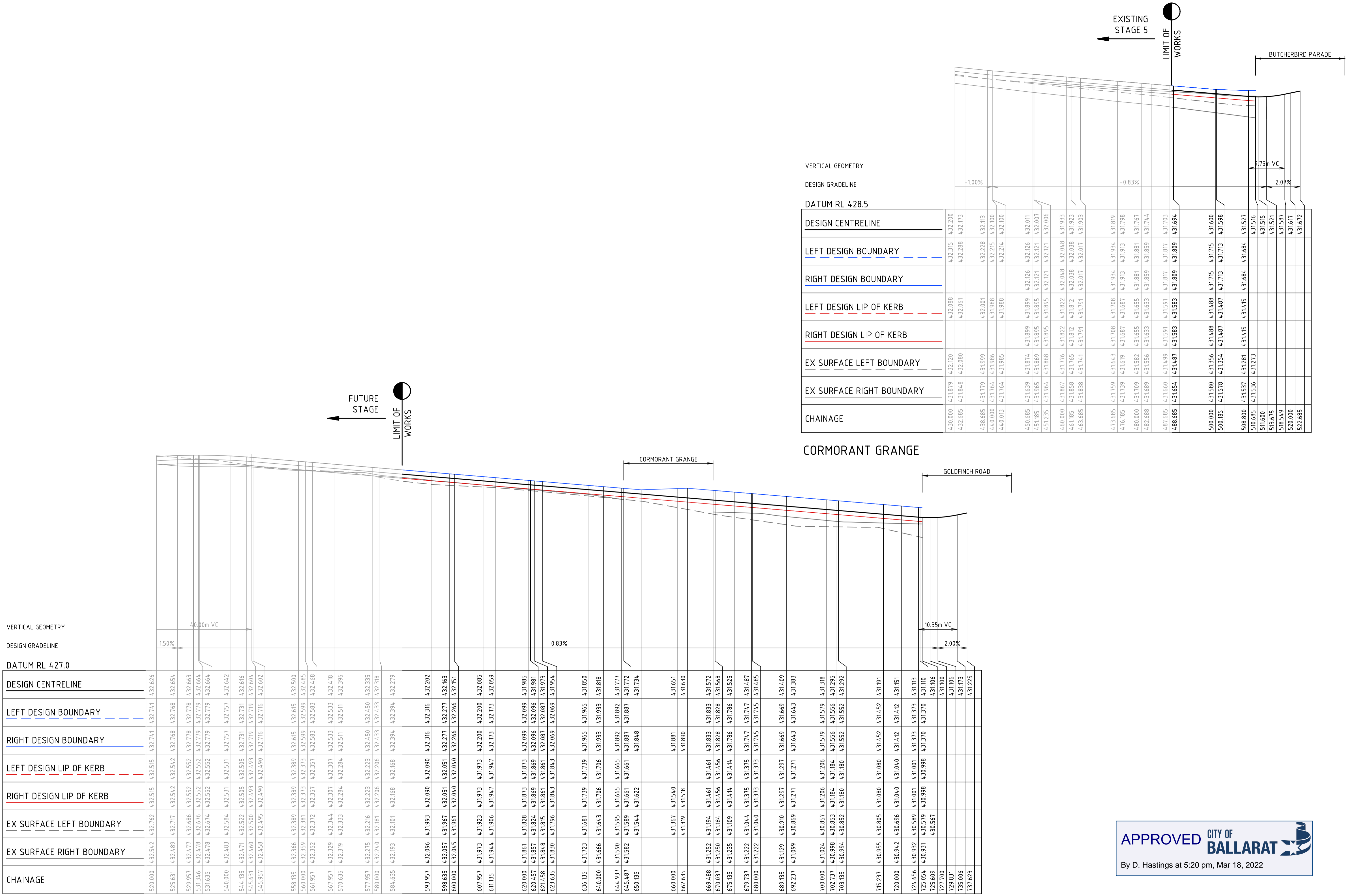
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 A.WILKIE

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 Date

CONROYS GREEN
STAGE 6
 ROAD AND DRAINAGE
 ROAD LAYOUT PLANS - SHEET 2
 CITY OF BALLARAT
 SAN HUBERTO PROPERTIES P/L

PRELIMINARY Drg No **309528CR201** Rev **A**

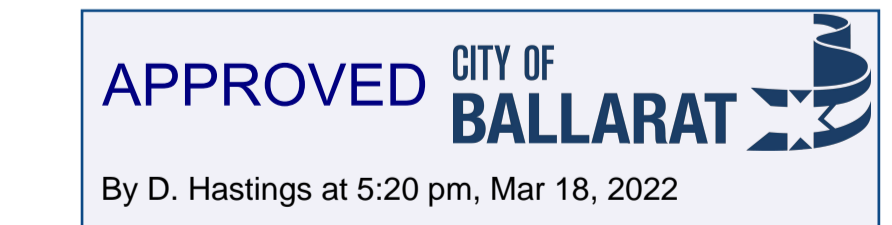
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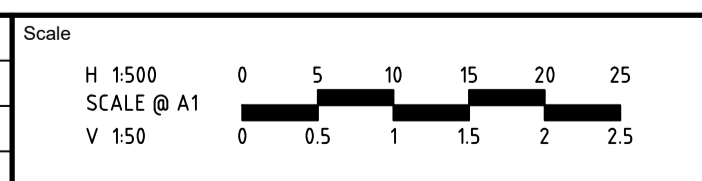
BUTCHERBIRD PARADE

CORMORANT GRANGE

GOLDFINCH ROAD



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A	PRELIMINARY ISSUE	AW	05/11/21
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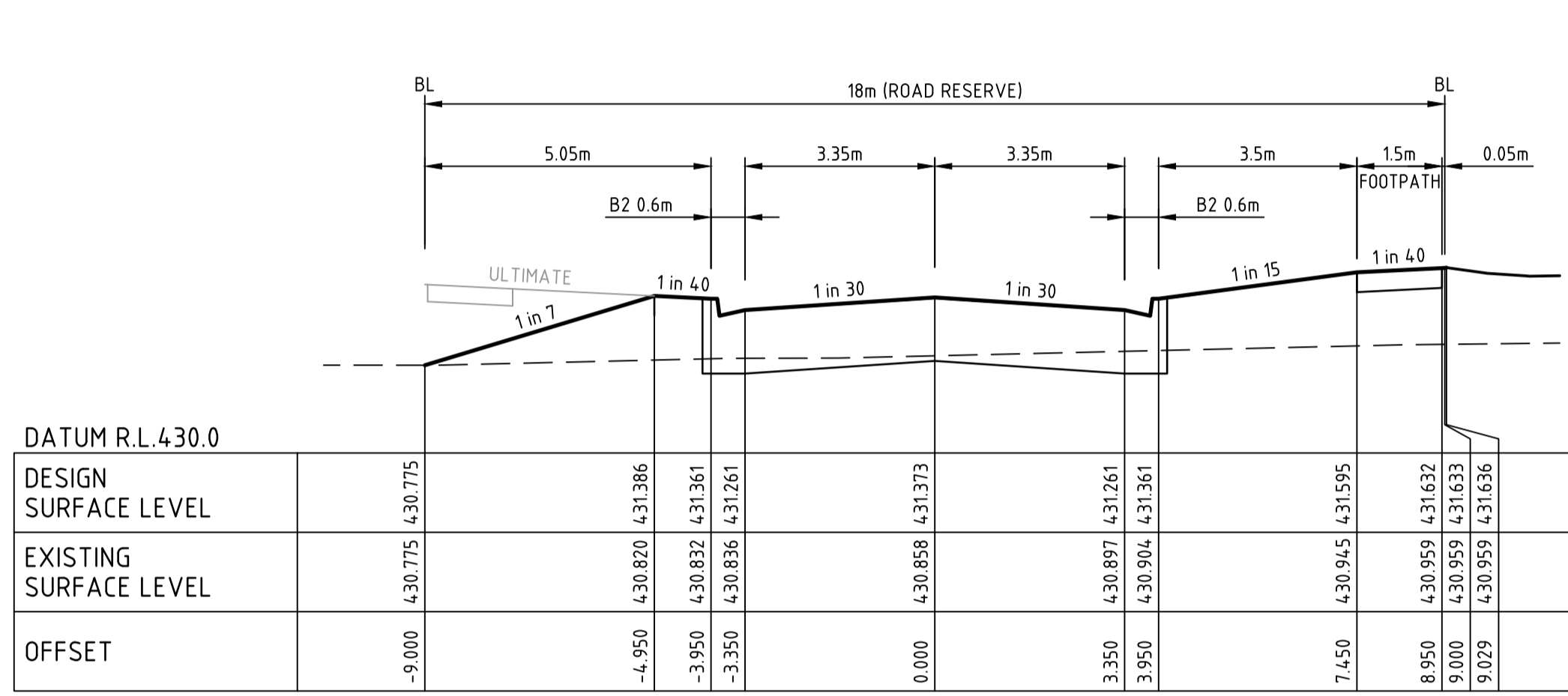
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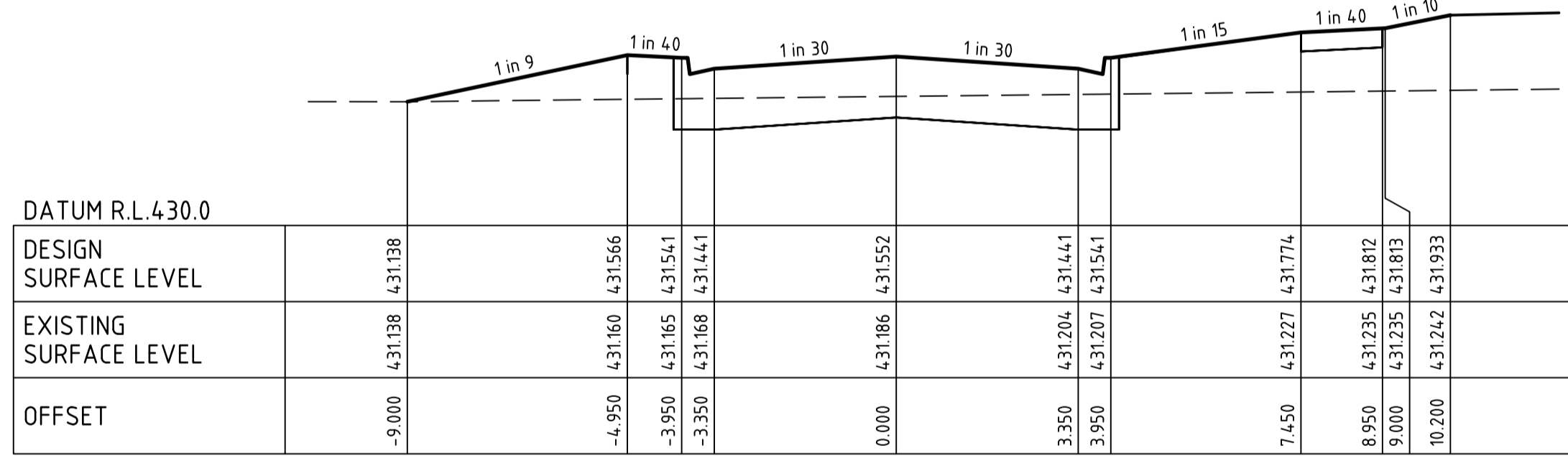
**CONROYS GREEN
STAGE 6
ROAD AND DRAINAGE
ROAD LONG SECTIONS - SHEET 2
CITY OF BALLARAT
SAN HUBERTO PROPERTIES P/L**

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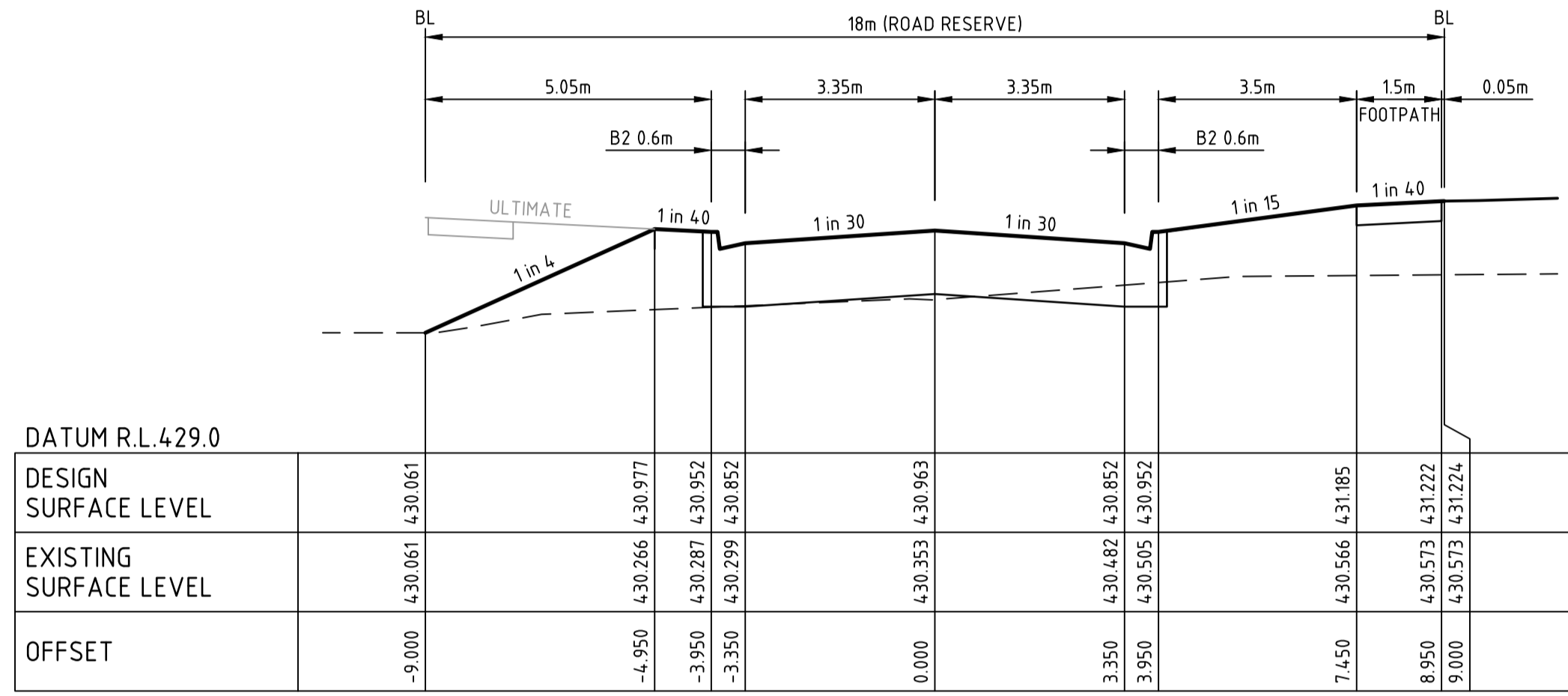
FILLING NOTE
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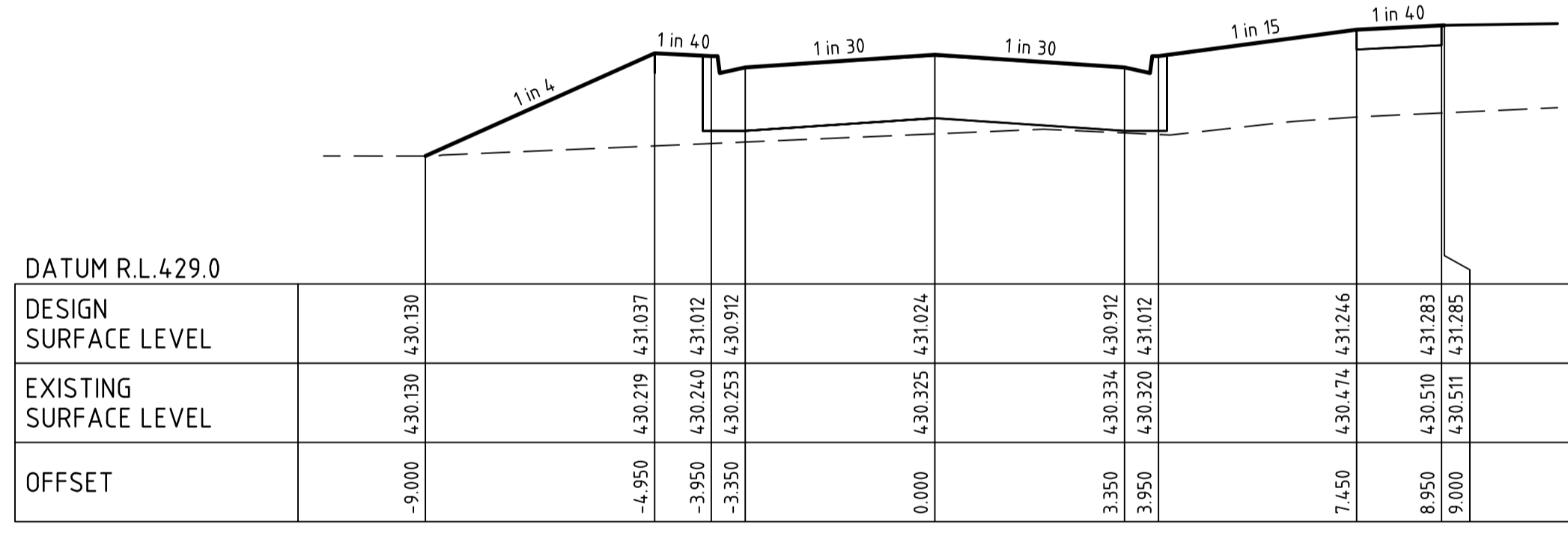
GOLDFINCH ROAD CH 521.95



GOLDFINCH ROAD CH 500.49



GOLDFINCH ROAD CH 549.54



GOLDFINCH ROAD CH 546.49

APPROVED CITY OF BALLARAT
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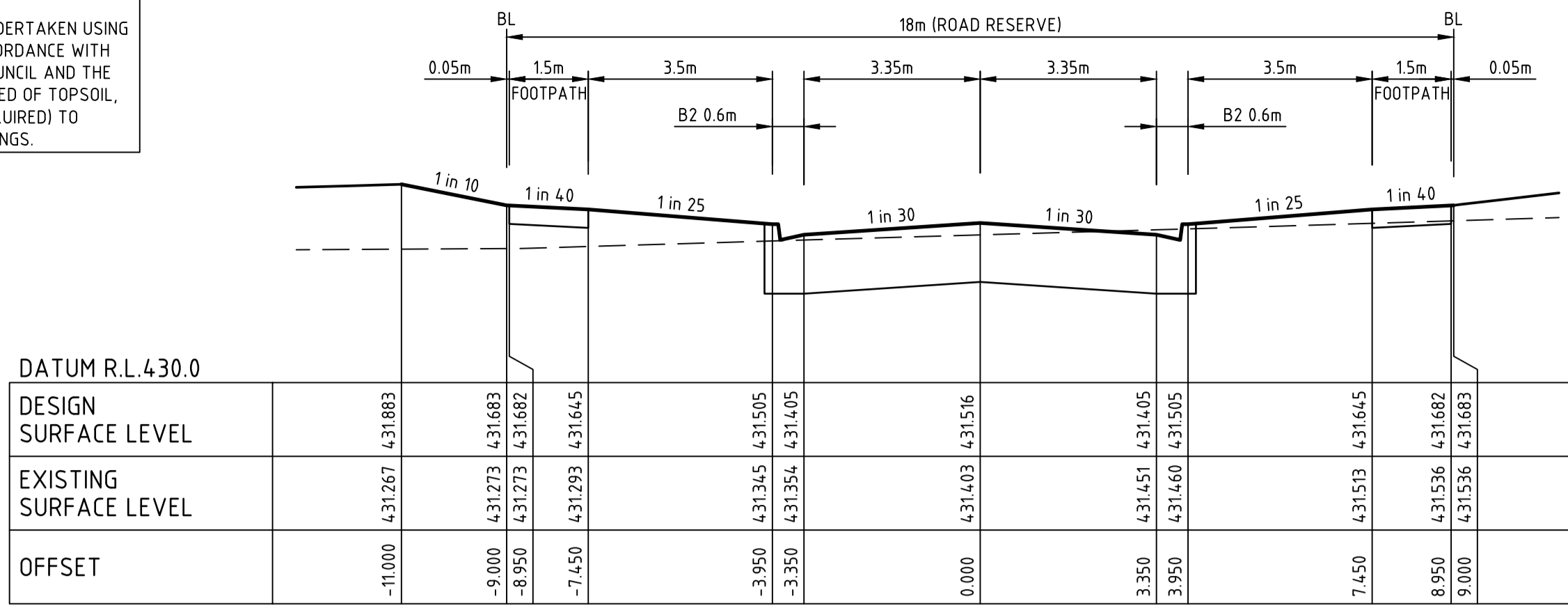
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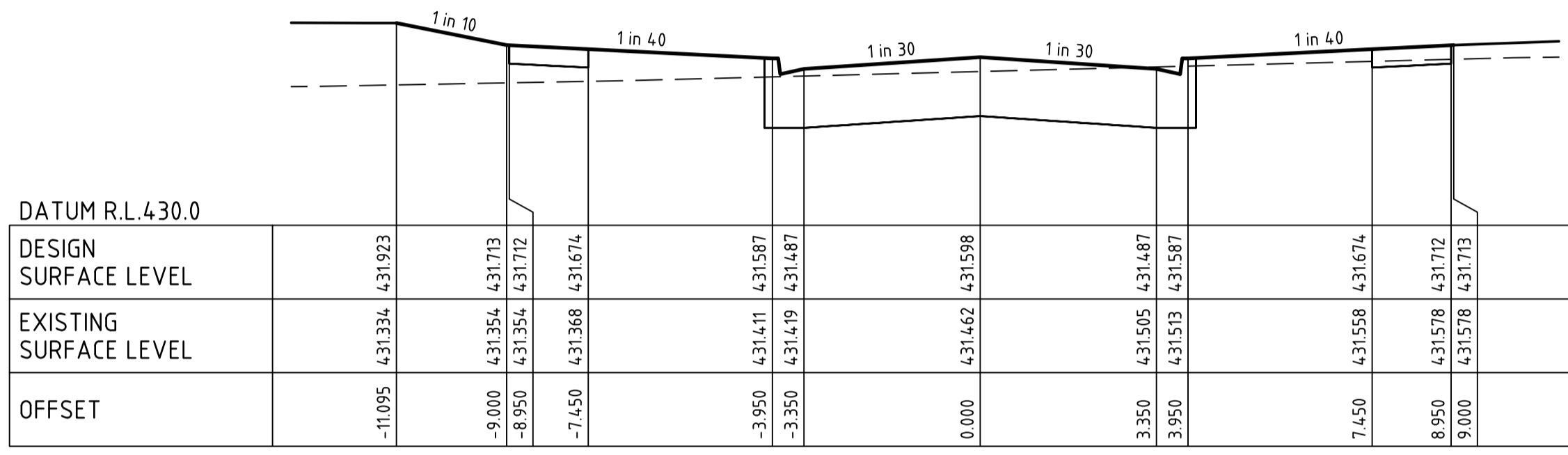
CONROYS GREEN
STAGE 6
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - SHEET 1
 CITY OF BALLARAT
 SAN HUBERTO PROPERTIES P/L

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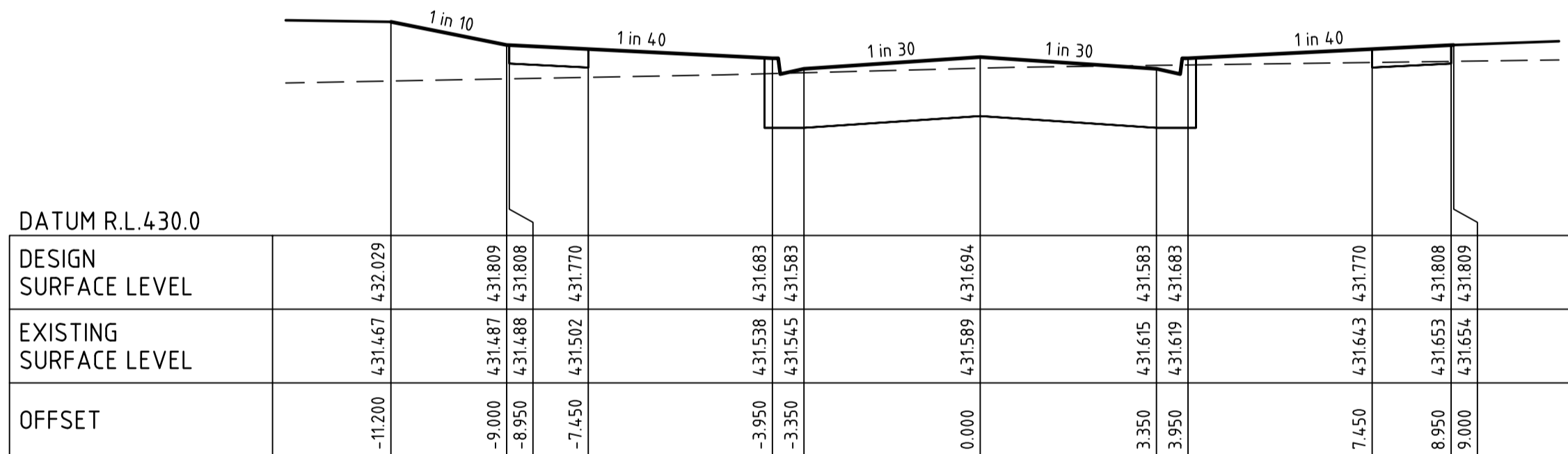
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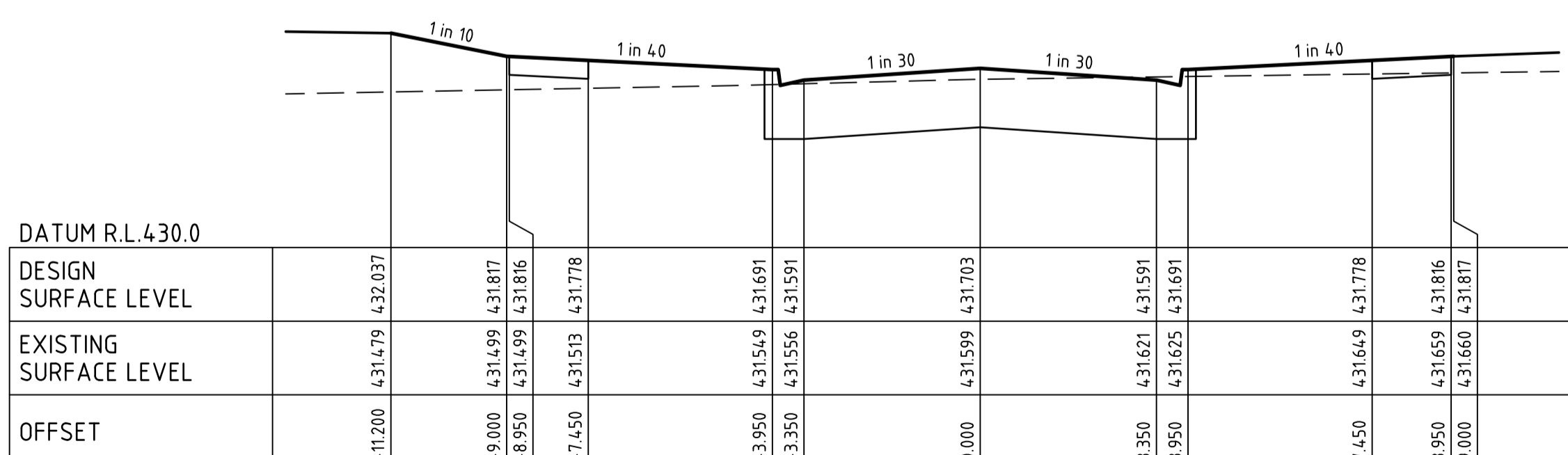
CORMORANT GRANGE CH 510.69



CORMORANT GRANGE CH 500.19



CORMORANT GRANGE CH 488.69

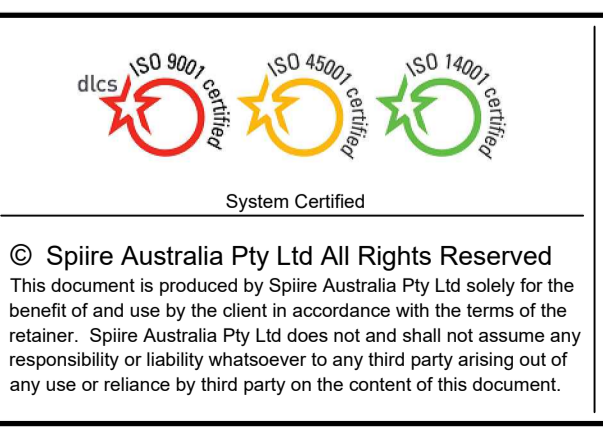
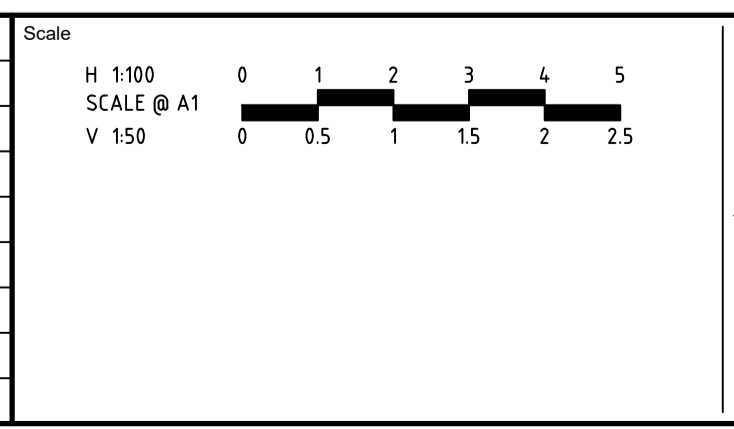


CORMORANT GRANGE CH 487.69

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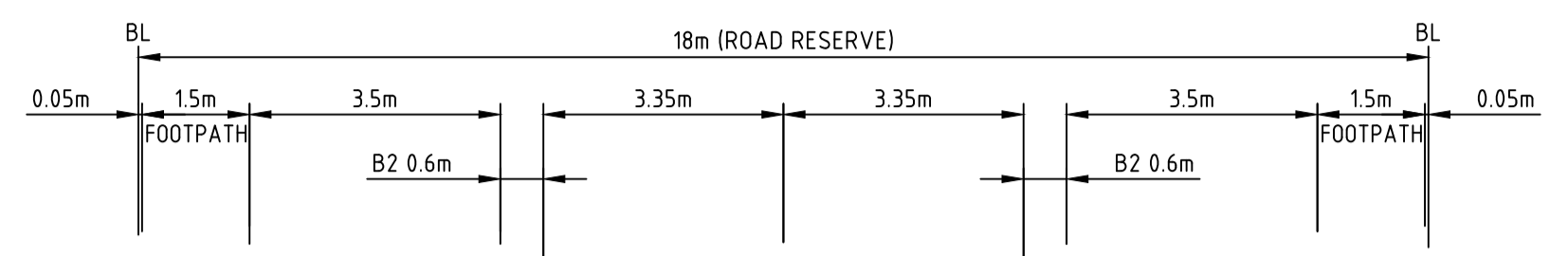
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CONROYS GREEN
STAGE 6
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - SHEET 3
 CITY OF BALLARAT
 SAN HUBERTO PROPERTIES P/L

PRELIMINARY Dwg No **309528CR402** Rev **A**

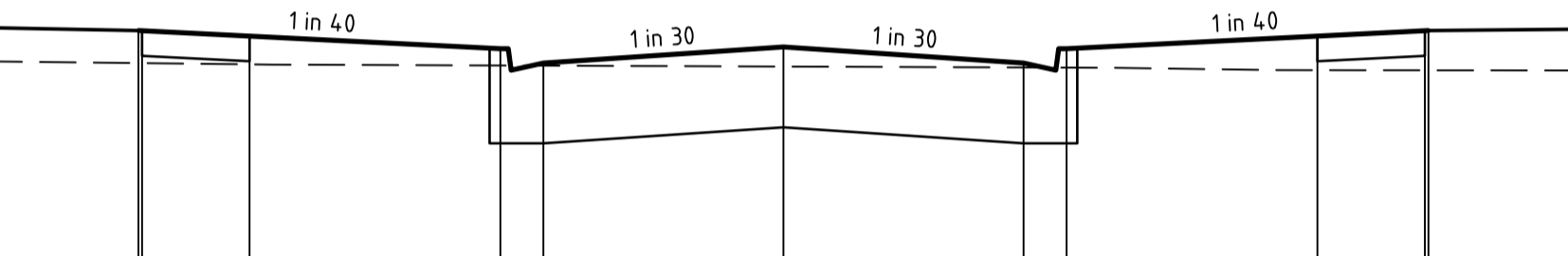
FILLING NOTE
 ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN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



DATUM R.L. 430.0

DESIGN SURFACE LEVEL	431.944	432.173	432.173	432.134
EXISTING SURFACE LEVEL	431.944	432.047	431.947	432.134
OFFSET	-9.000	-3.950	0.000	7.450

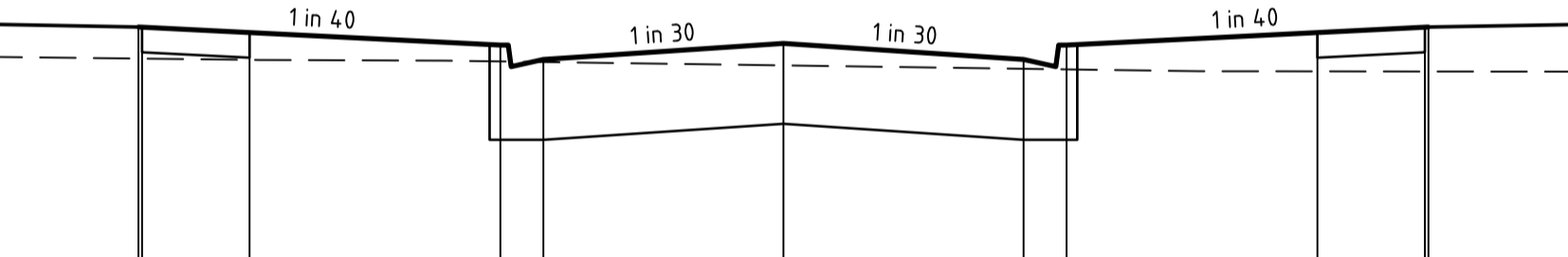
BUTCHERBIRD PARADE CH 611.13



DATUM R.L. 430.0

DESIGN SURFACE LEVEL	432.200	432.198	432.161	432.161
EXISTING SURFACE LEVEL	431.973	432.073	431.973	432.198
OFFSET	-9.000	-3.950	0.000	8.950

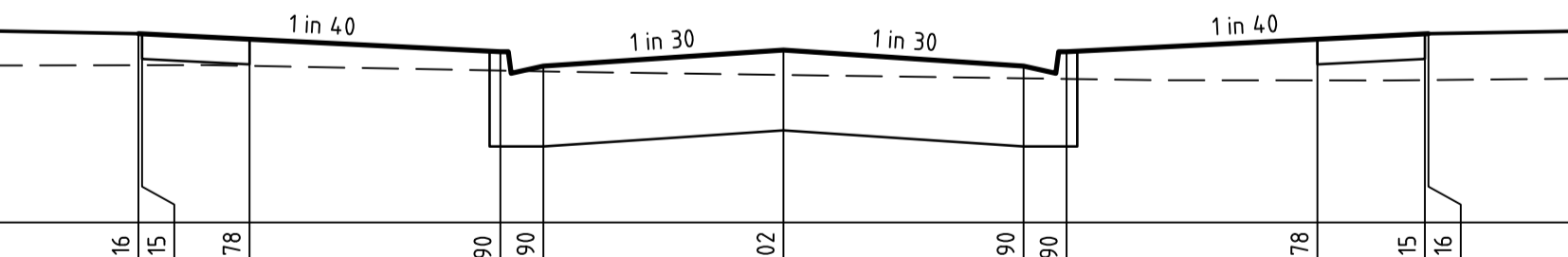
BUTCHERBIRD PARADE CH 607.96



DATUM R.L. 430.0

DESIGN SURFACE LEVEL	432.277	432.276	432.239	432.239
EXISTING SURFACE LEVEL	432.051	432.151	432.051	432.276
OFFSET	-9.000	-3.950	0.000	8.950

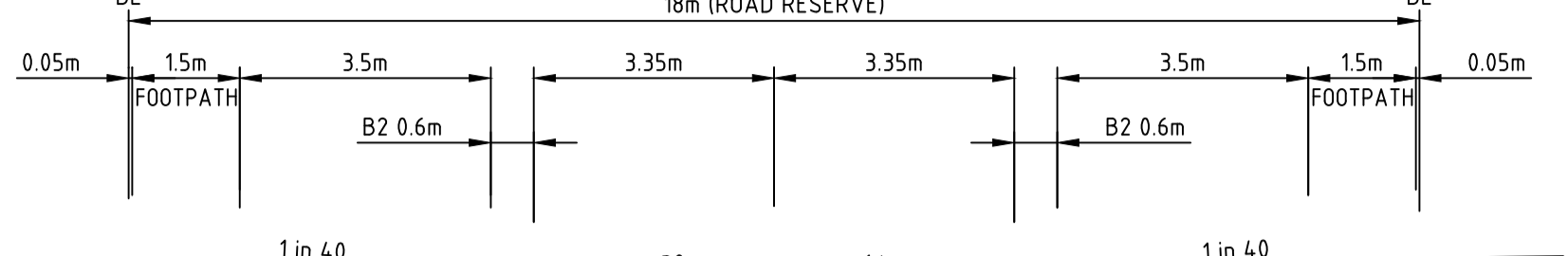
BUTCHERBIRD PARADE CH 598.63



DATUM R.L. 431.0

DESIGN SURFACE LEVEL	432.316	432.315	432.278	432.278
EXISTING SURFACE LEVEL	432.096	432.190	432.090	432.315
OFFSET	-9.000	-3.950	0.000	8.950

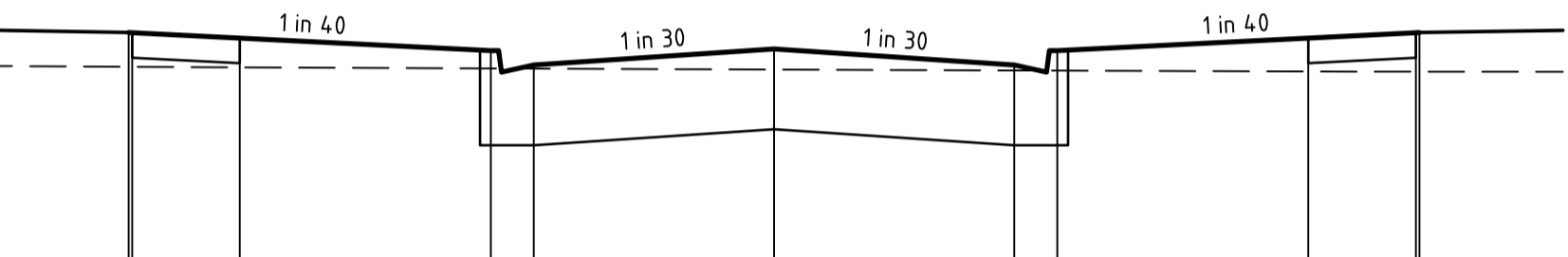
BUTCHERBIRD PARADE CH 593.96



DATUM R.L. 430.0

DESIGN SURFACE LEVEL	431.965	431.964	431.926	431.926
EXISTING SURFACE LEVEL	431.724	431.839	431.739	431.964
OFFSET	-9.000	-3.950	0.000	8.950

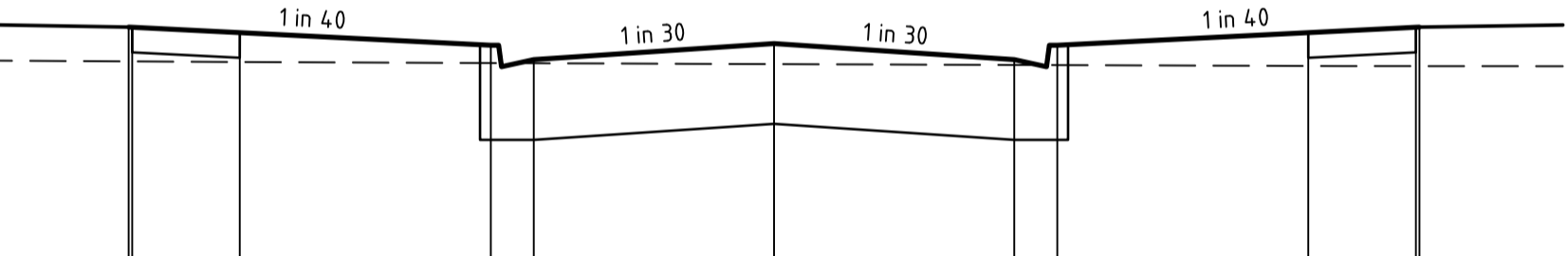
BUTCHERBIRD PARADE CH 636.13



DATUM R.L. 430.0

DESIGN SURFACE LEVEL	432.069	432.068	432.030	432.030
EXISTING SURFACE LEVEL	431.830	431.943	431.843	432.068
OFFSET	-9.000	-3.950	0.000	8.950

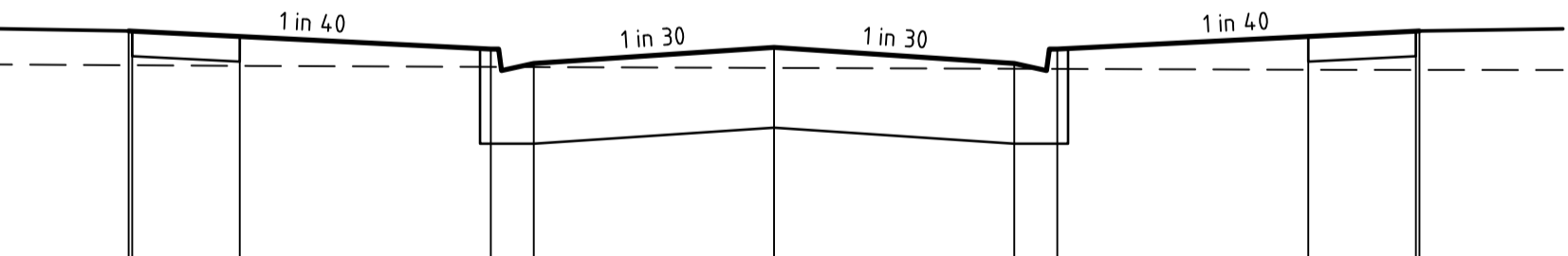
BUTCHERBIRD PARADE CH 623.63



DATUM R.L. 430.0

DESIGN SURFACE LEVEL	432.087	432.086	432.048	432.048
EXISTING SURFACE LEVEL	431.848	431.961	431.861	432.086
OFFSET	-9.000	-3.950	0.000	8.950

BUTCHERBIRD PARADE CH 621.46



DATUM R.L. 430.0

DESIGN SURFACE LEVEL	432.096	432.094	432.057	432.057
EXISTING SURFACE LEVEL	431.857	431.969	431.869	432.094
OFFSET	-9.000	-3.950	0.000	8.950

BUTCHERBIRD PARADE CH 620.46

APPROVED CITY OF BALLARAT
 By D. Hastings at 5:21 pm, Mar 18, 2022

file name: 309528CR403.dwg, location: c:\projects\stage 6\ch 603.dwg, sheet: 8 of 14 sheets

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System Certified		
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Authorised A.WILKIE		

PRELIMINARY ISSUE	AW	05/11/21
Amendments	Approved	Date

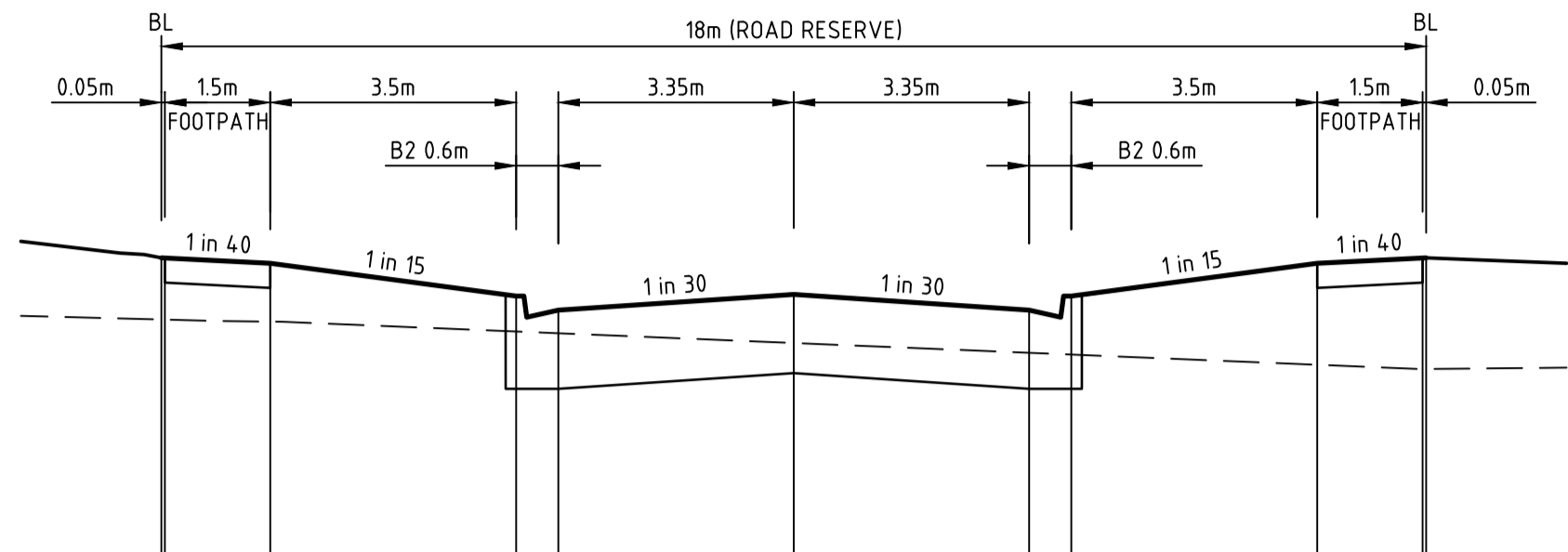
CONROYS GREEN	STAGE 6	ROAD AND DRAINAGE	ROAD CROSS SECTIONS - SHEET 4
CITY OF BALLARAT SAN HUBERTO PROPERTIES P/L			
PRELIMINARY	Dwg No 309528CR403	Rev A	

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CONROYS GREEN	STAGE 6	ROAD AND DRAINAGE	ROAD CROSS SECTIONS - SHEET 4
CITY OF BALLARAT SAN HUBERTO PROPERTIES P/L			
PRELIMINARY	Dwg No 309528CR403	Rev A	

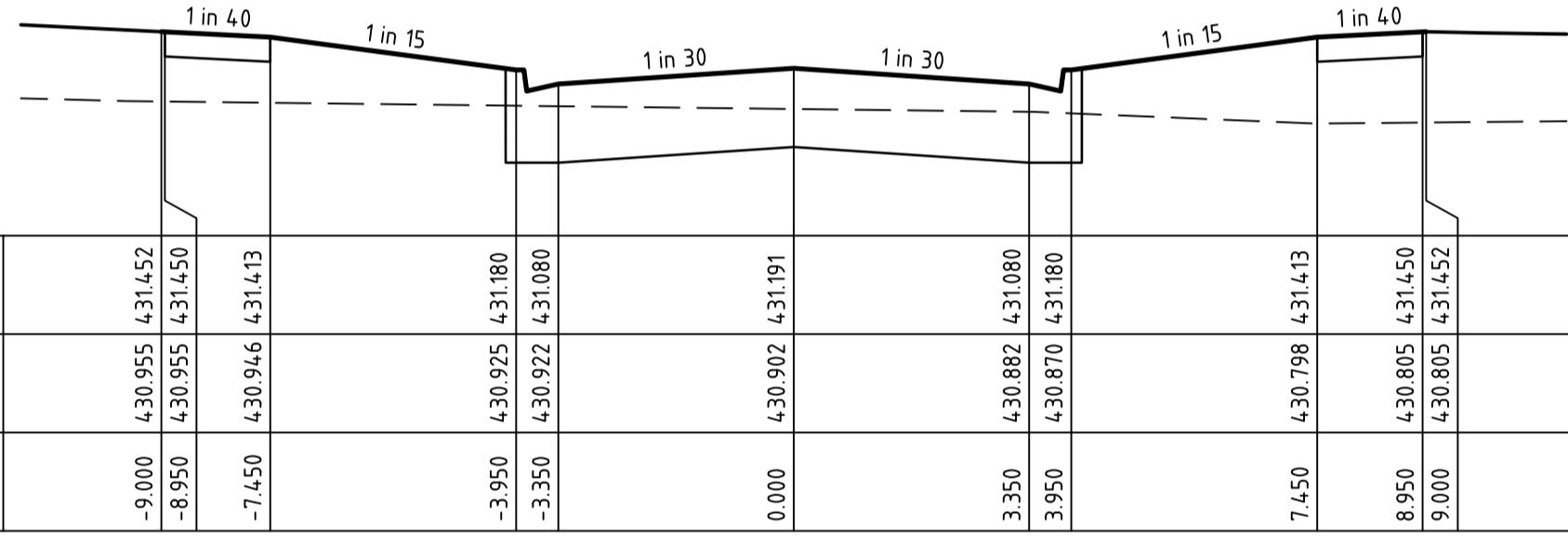
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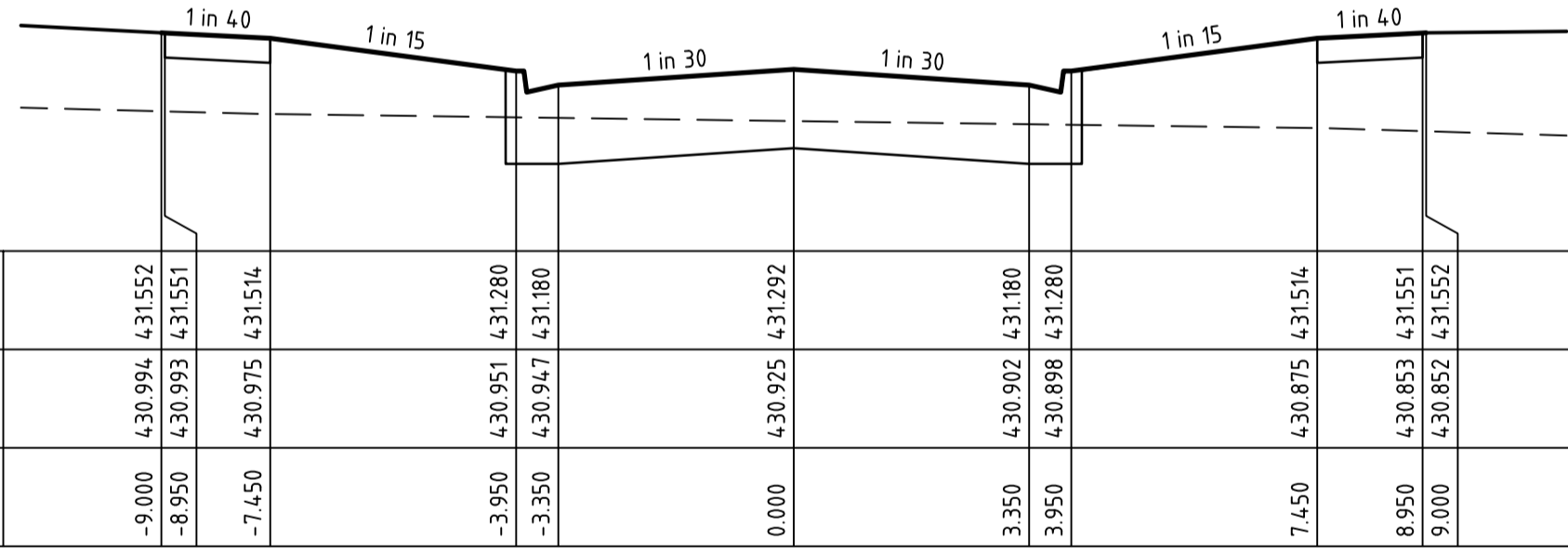
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DESIGN SURFACE LEVEL	-9.000 430.931 431.370 -8.950 430.931 431.369
EXISTING SURFACE LEVEL	-7.450 430.916 431.331 -3.950 430.846 431.098 -3.350 430.834 430.998 0.000 430.764 431.110 3.350 430.694 430.998 3.950 430.682 431.098 7.450 430.609 431.331 8.950 430.579 431.369 9.000 430.579 431.370
OFFSET	

BUTCHERBIRD PARADE CH 725.05



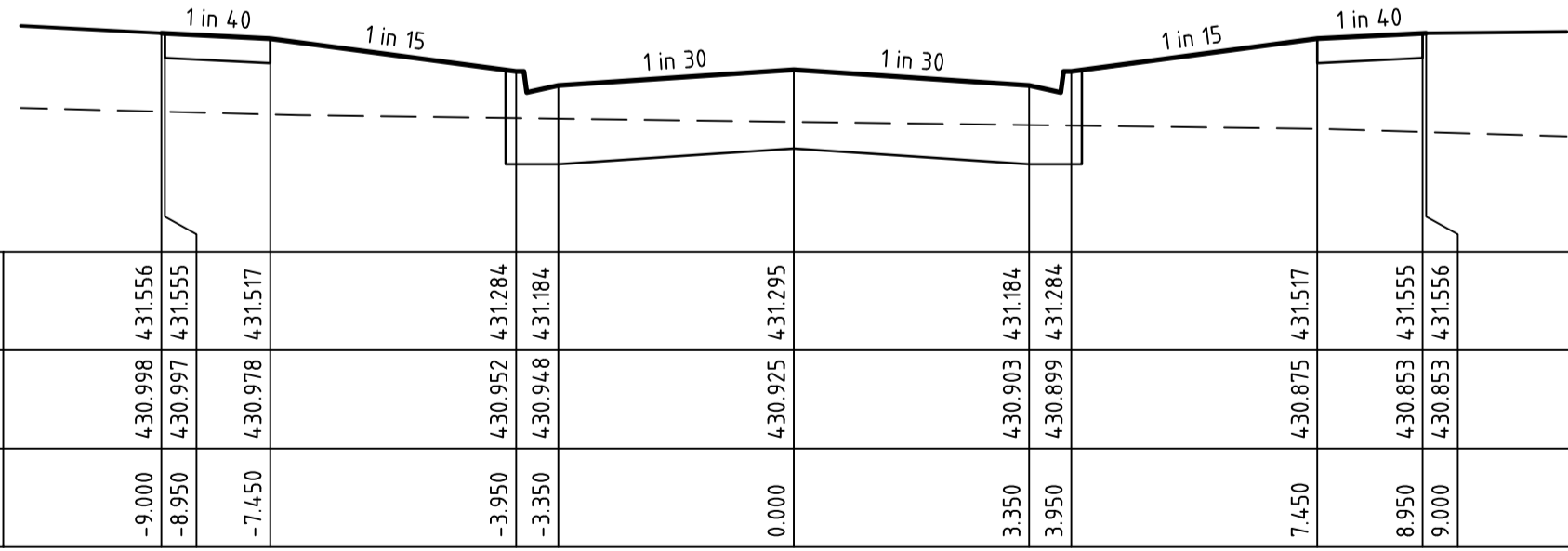
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DESIGN SURFACE LEVEL	-9.000 430.955 431.452 -8.950 430.955 431.450
EXISTING SURFACE LEVEL	-7.450 430.946 431.413 -3.950 430.925 431.080 -3.350 430.922 431.080 0.000 430.902 431.191 3.350 430.882 431.080 3.950 430.870 431.180 7.450 430.798 431.413 8.950 430.805 431.450 9.000 430.805 431.452
OFFSET	

BUTCHERBIRD PARADE CH 715.24



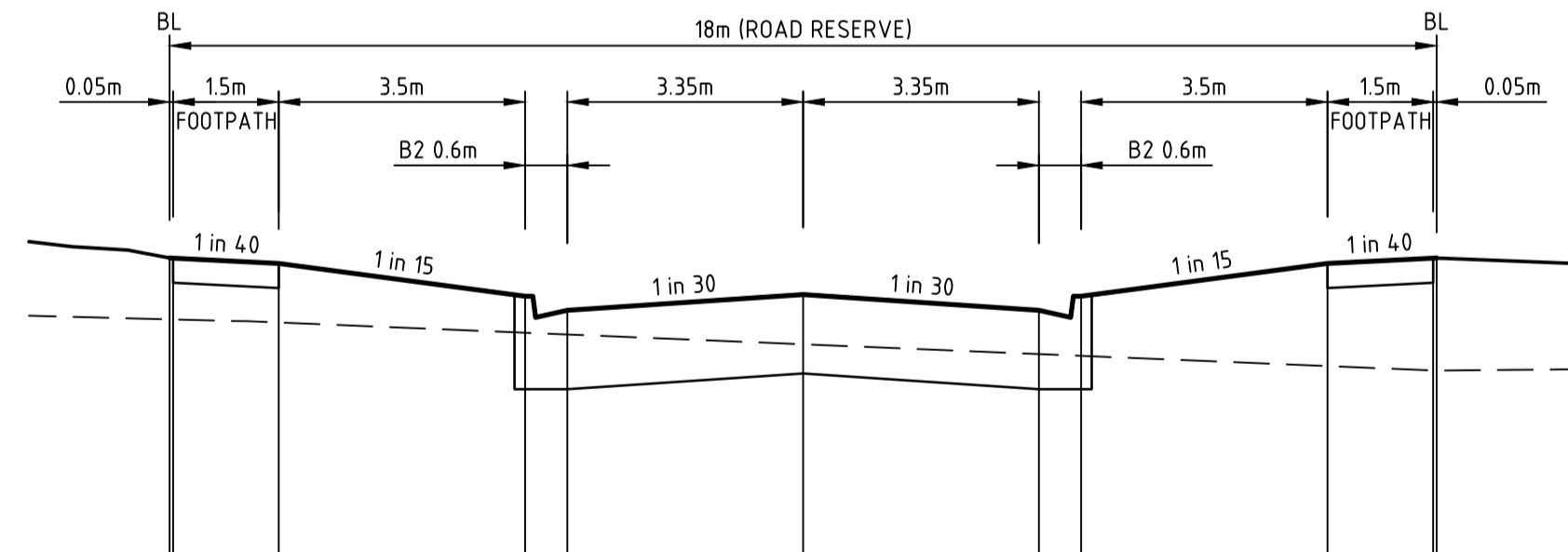
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DESIGN SURFACE LEVEL	-9.000 430.994 431.552 -8.950 430.993 431.551
EXISTING SURFACE LEVEL	-7.450 430.975 431.514 -3.950 430.951 431.280 -3.350 430.947 431.180 0.000 430.925 431.292 3.350 430.902 431.180 3.950 430.898 431.280 7.450 430.875 431.514 8.950 430.853 431.551 9.000 430.852 431.552
OFFSET	

BUTCHERBIRD PARADE CH 703.13



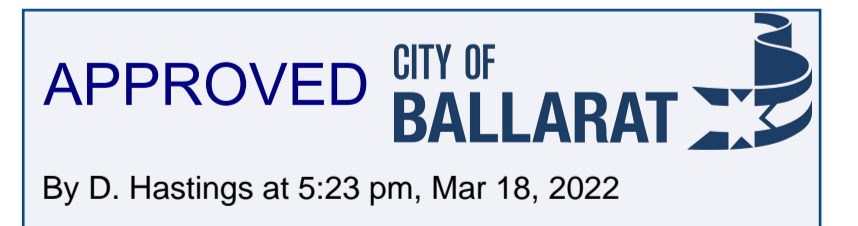
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EXISTING SURFACE LEVEL	-7.450 430.978 431.517 -3.950 430.952 431.284 -3.350 430.948 431.184 0.000 430.925 431.295 3.350 430.903 431.184 3.950 430.899 431.284 7.450 430.875 431.517 8.950 430.853 431.555 9.000 430.853 431.556
OFFSET	

BUTCHERBIRD PARADE CH 702.74



DATUM R.L. 429.0	
DESIGN SURFACE LEVEL	-9.000 430.930 431.366 -8.950 430.929 431.365
EXISTING SURFACE LEVEL	-7.450 430.908 431.328 -3.950 430.835 431.094 -3.350 430.823 430.994 0.000 430.753 431.106 3.350 430.684 430.994 3.950 430.671 431.094 7.450 430.599 431.328 8.950 430.567 431.365 9.000 430.567 431.366
OFFSET	

BUTCHERBIRD PARADE CH 725.61



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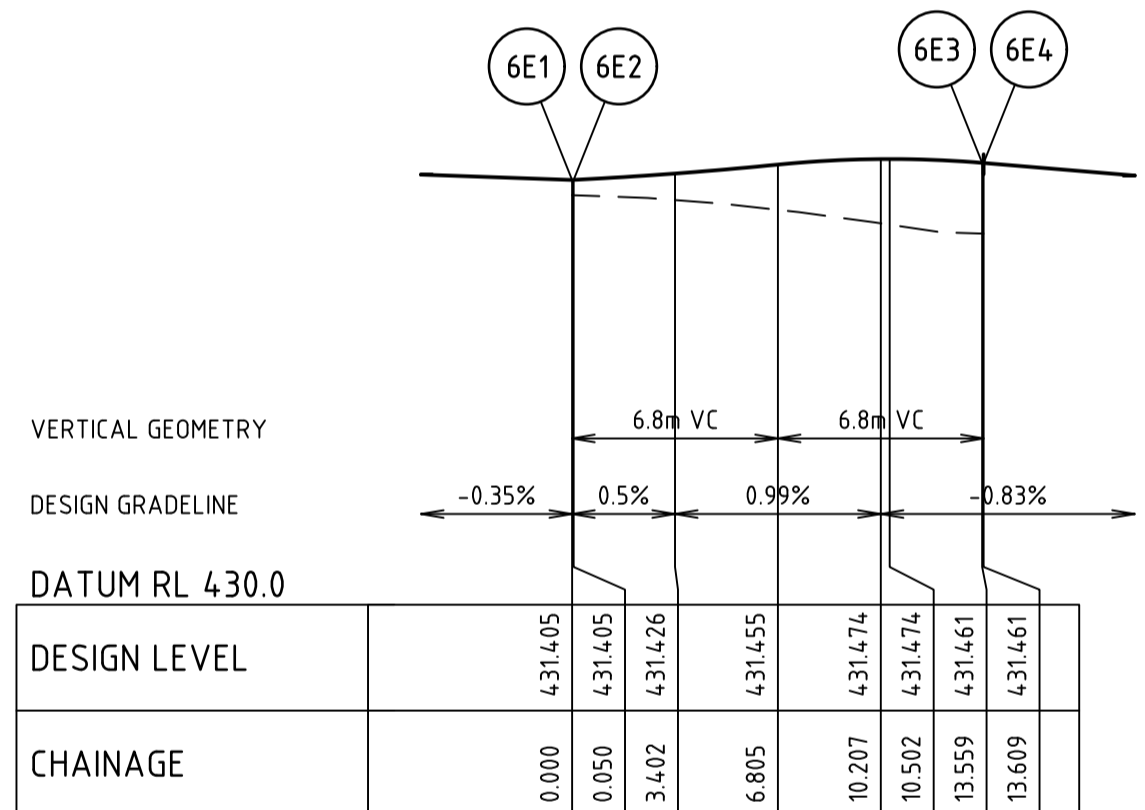
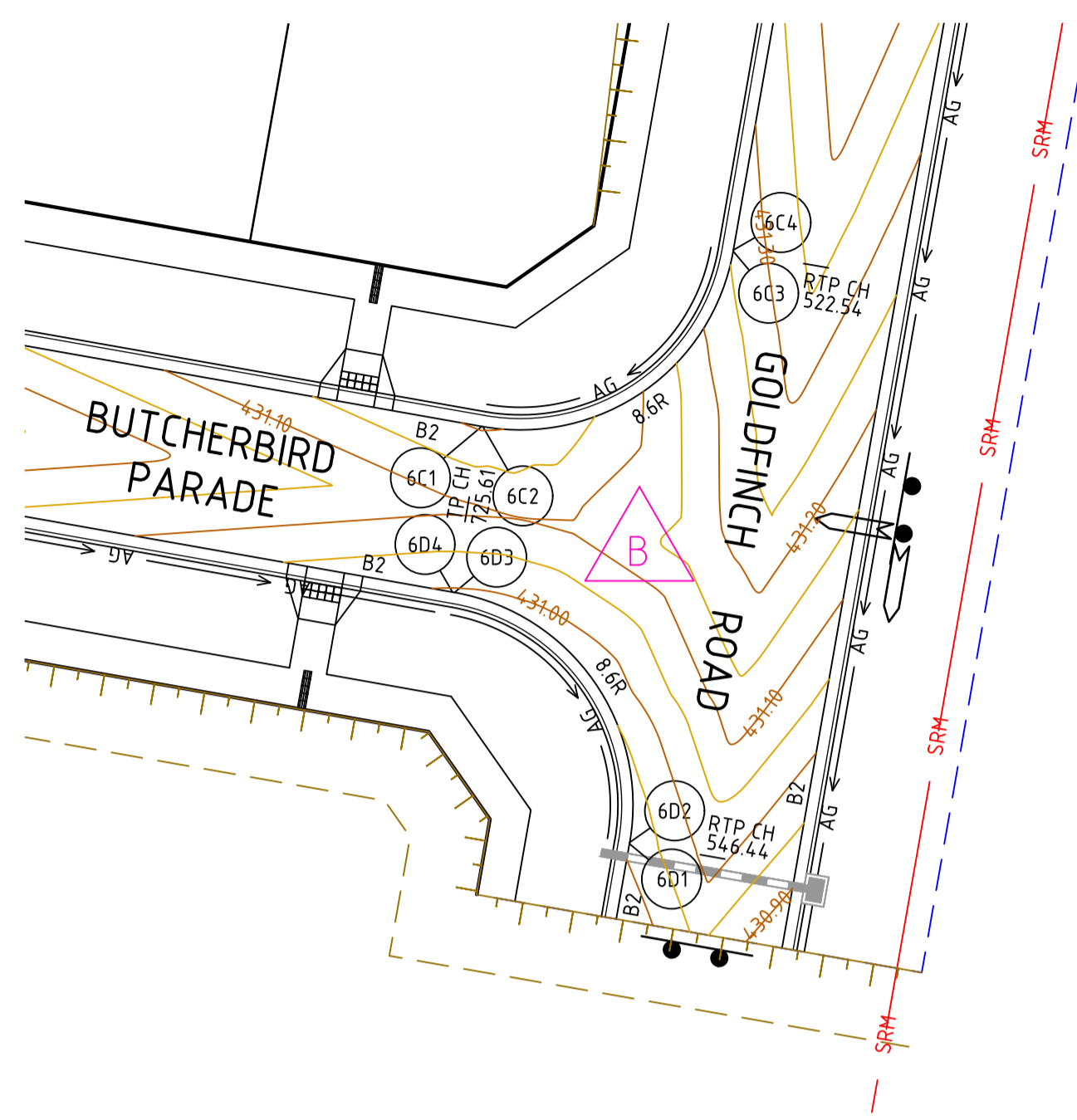
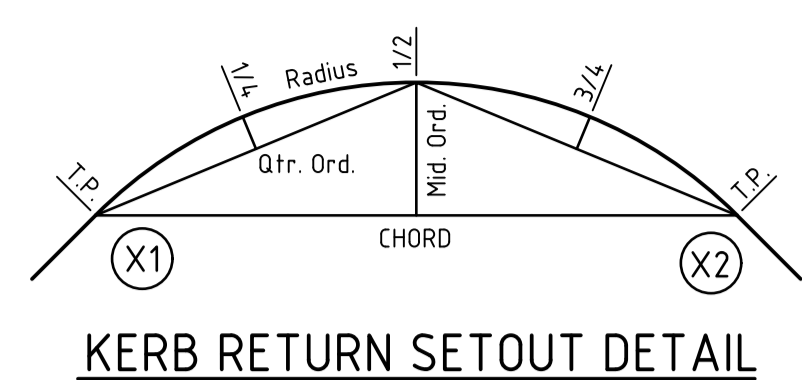
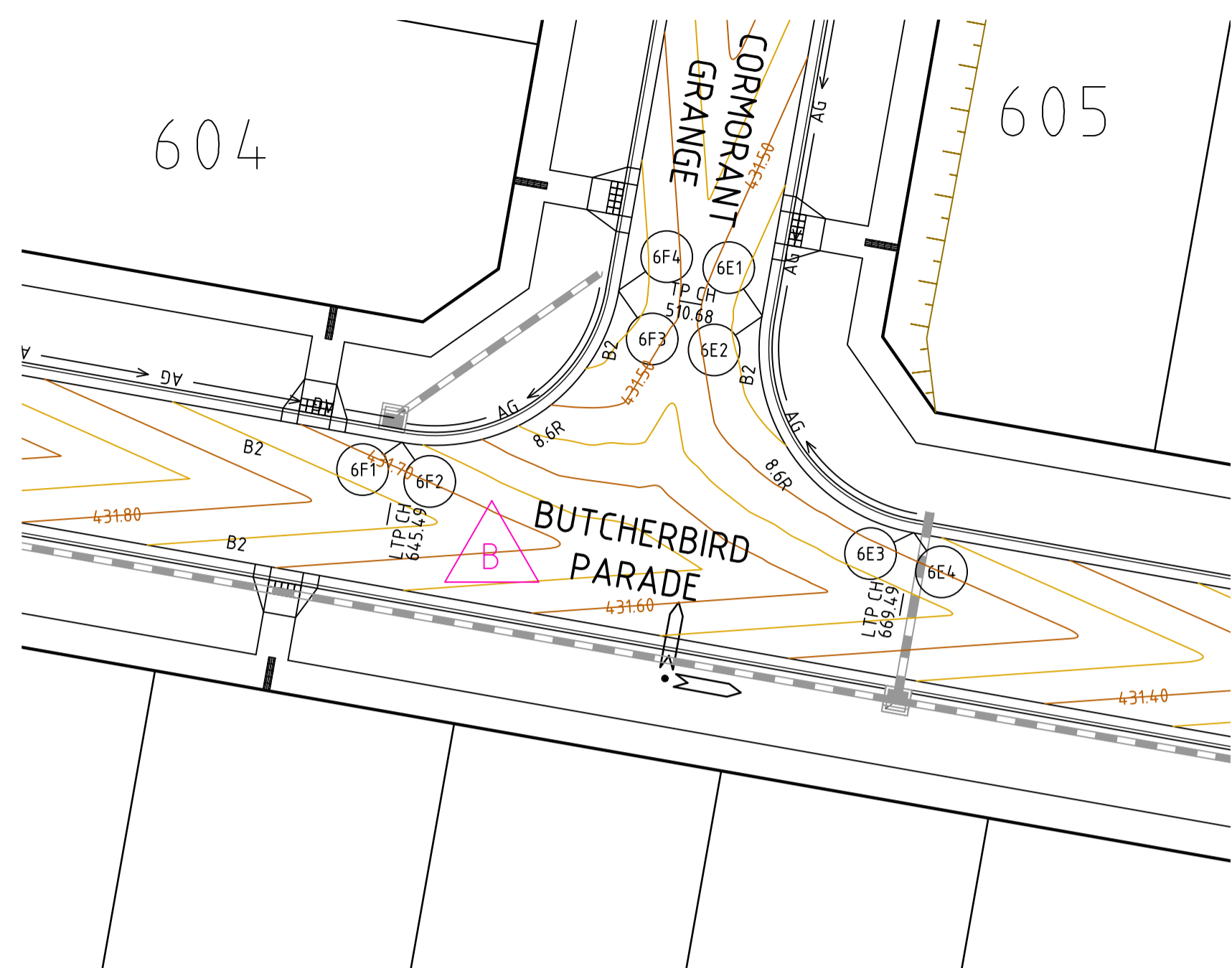
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Checked	B.IBBS
Authorised	A.WILKIE
Date	
Rev	A PRELIMINARY ISSUE
AW	05/11/21
Approved	Date

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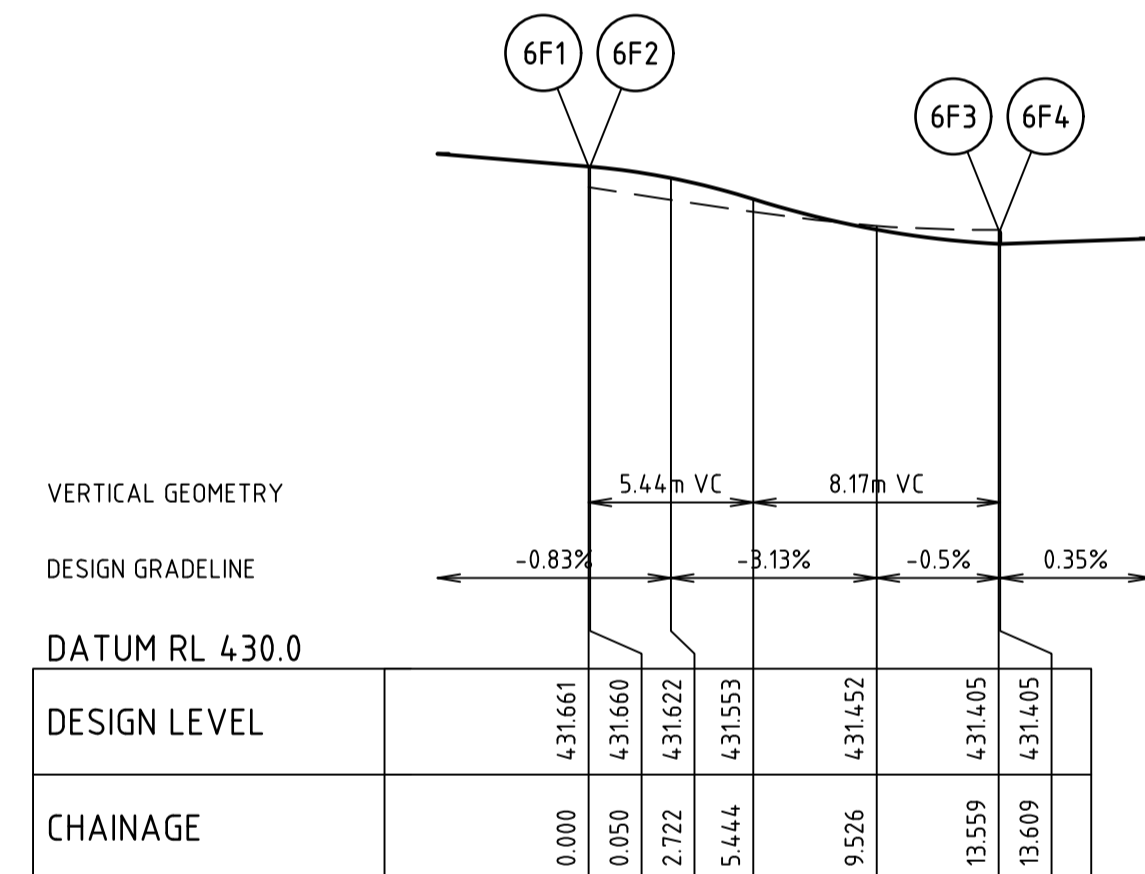
CONROYS GREEN
STAGE 6
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - SHEET 6
 CITY OF BALLARAT
 SAN HUBERTO PROPERTIES P/L

Designed: S.WOOD
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 Date:

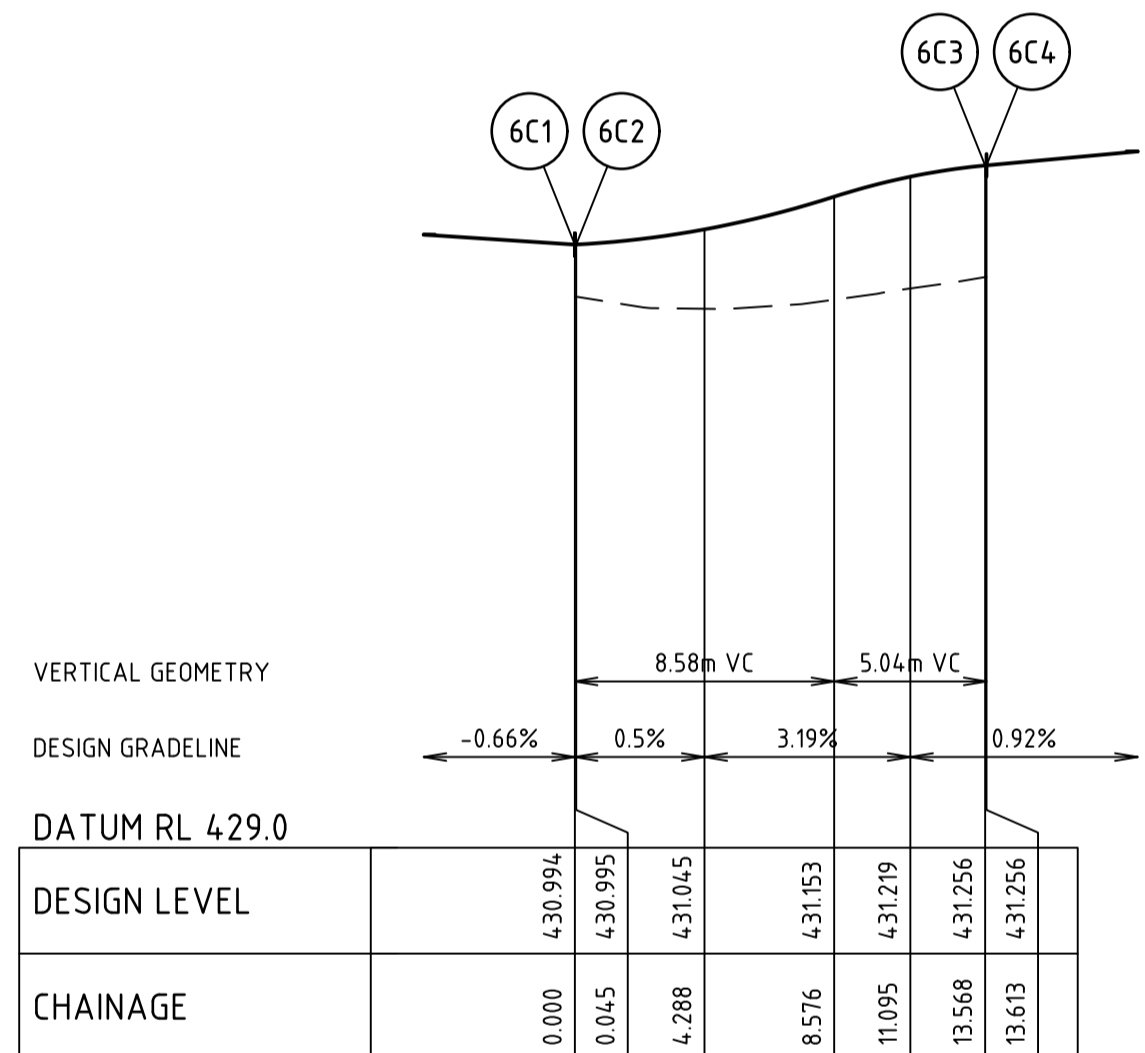
PRELIMINARY Drg No: 309528CR405 Rev: A



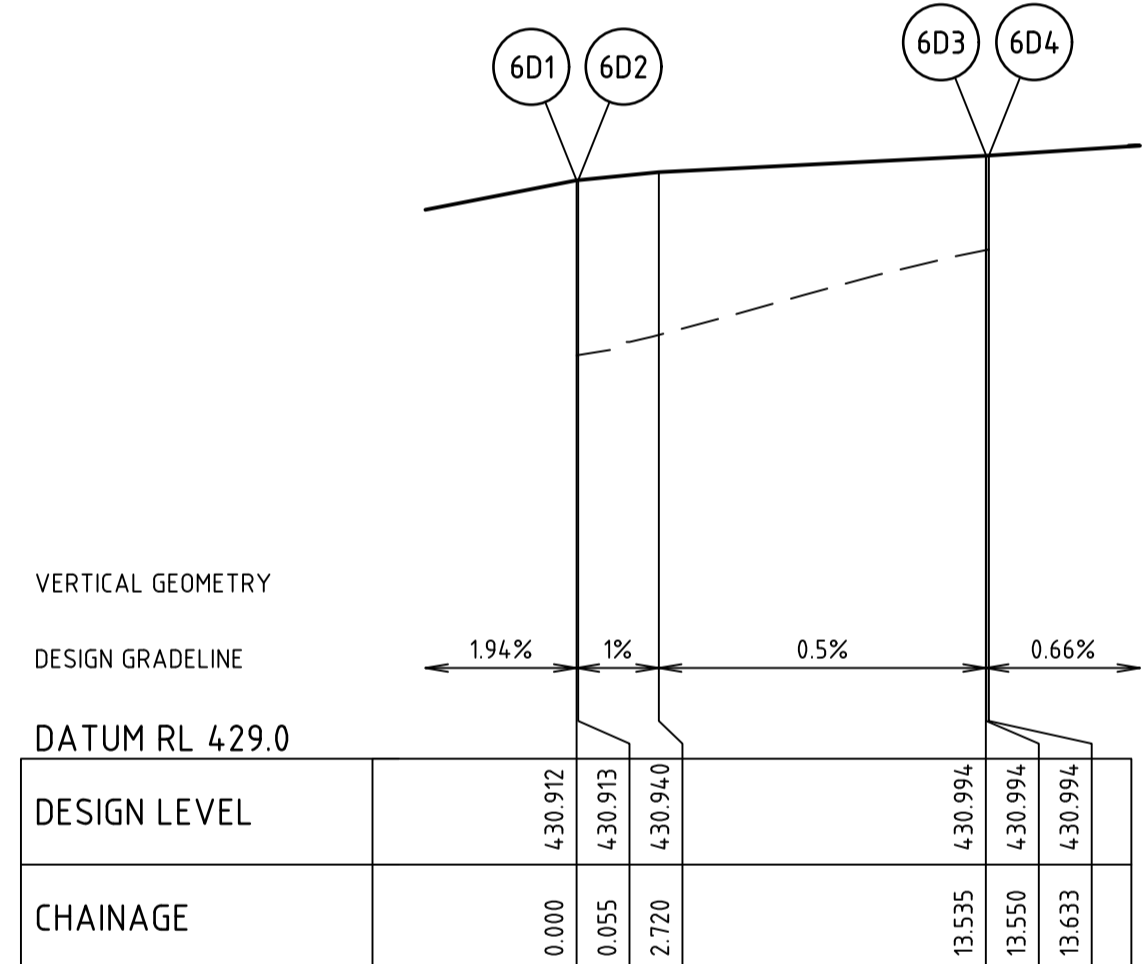
ALIGNMENT 6E



ALIGNMENT 6F



ALIGNMENT 6C



ALIGNMENT 6D

POINT NO	EASTING	NORTHING	RL
6E1	745836.938	583704.969	431.405
6E2	745836.929	583704.964	431.405
1/4	745837.001	583704.629	431.426
1/2	745838.351	583704.323	431.455
3/4	745840.774	583704.901	431.474
6E3	745843.901	583703.684	431.461
6E4	745843.950	583703.675	431.461

POINT NO	EASTING	NORTHING	RL
6F1	745820.317	583704.385	431.661
6F2	745820.366	583704.384	431.660
1/4	745823.721	583704.395	431.607
1/2	745826.793	583704.526	431.513
3/4	745829.114	583704.768	431.441
6F3	745830.331	583705.815	431.405
6F4	745830.340	583705.865	431.405

POINT NO	EASTING	NORTHING	RL
6C1	745899.215	5837029.909	430.994
6C2	745899.260	5837029.901	430.995
1/4	745902.618	5837029.973	431.030
1/2	745905.692	5837031.327	431.101
3/4	745908.013	5837033.755	431.198
6C3	745909.228	5837036.886	431.256
6C4	745909.235	5837036.931	431.256

POINT NO	EASTING	NORTHING	RL
6D1	745905.097	5837013.290	430.912
6D2	745905.106	5837013.344	430.913
1/4	745905.029	5837016.696	430.943
1/2	745903.678	5837019.763	430.960
3/4	745901.256	5837022.081	430.977
6D3	745898.131	5837023.296	430.994
6D4	745898.049	5837023.311	430.994

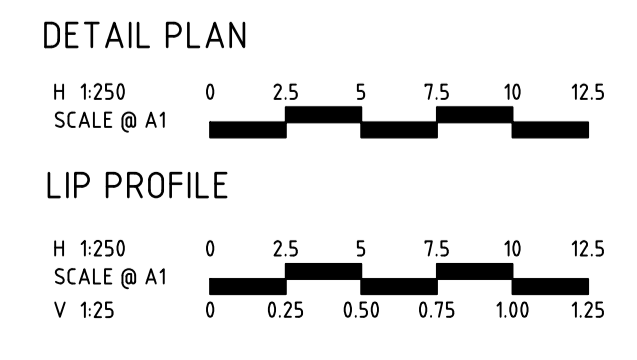
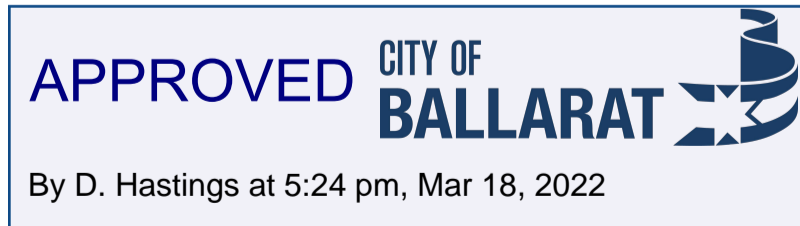
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6E2-6E3	8.600	13.509	12.162	2.519	-0.655

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
6F2-6F3	8.600	13.509	12.162	2.519	-0.655

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
6C2-6C3	8.600	13.523	12.172	2.524	-0.656

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
6D2-6D3	8.600	3.495	12.153	2.514	-0.653

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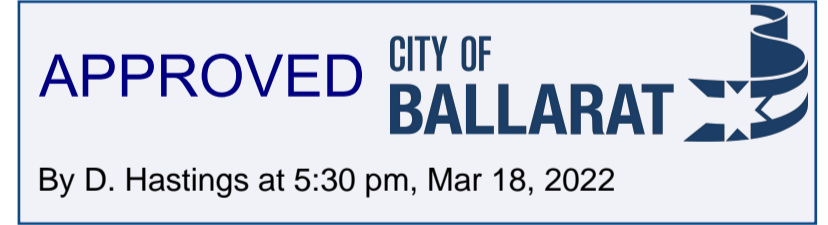
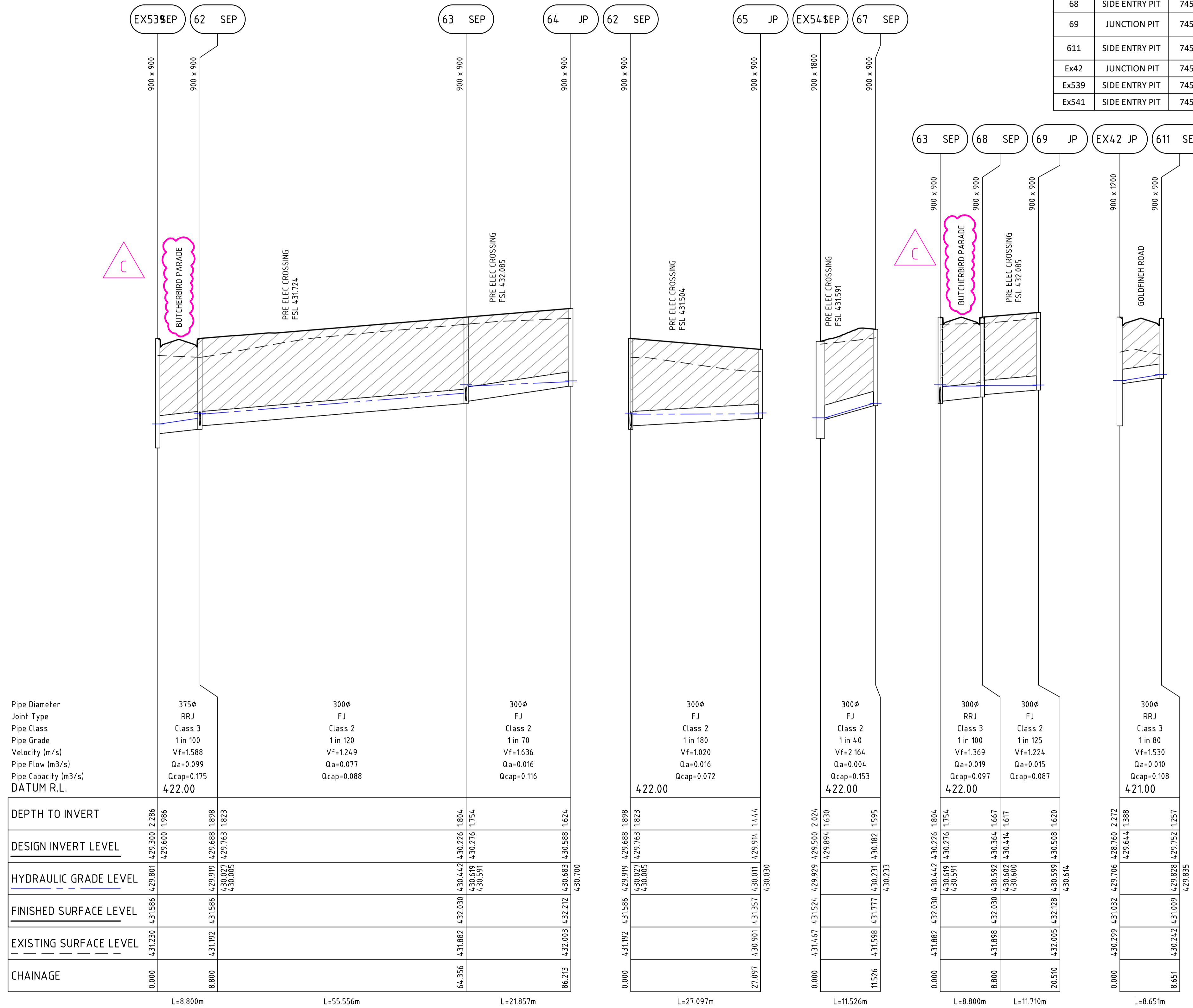
Designed: S.WOOD
Authorised: A.WILKIE
Checked: B.IBBS
Date:

CONROYS GREEN STAGE 6 ROAD AND DRAINAGE INTERSECTION DETAILS - SHEET 1
CITY OF BALLARAT
SAN HUBERTO PROPERTIES P/L
PRELIMINARY Dwg No: 309528CR500 Rev: B

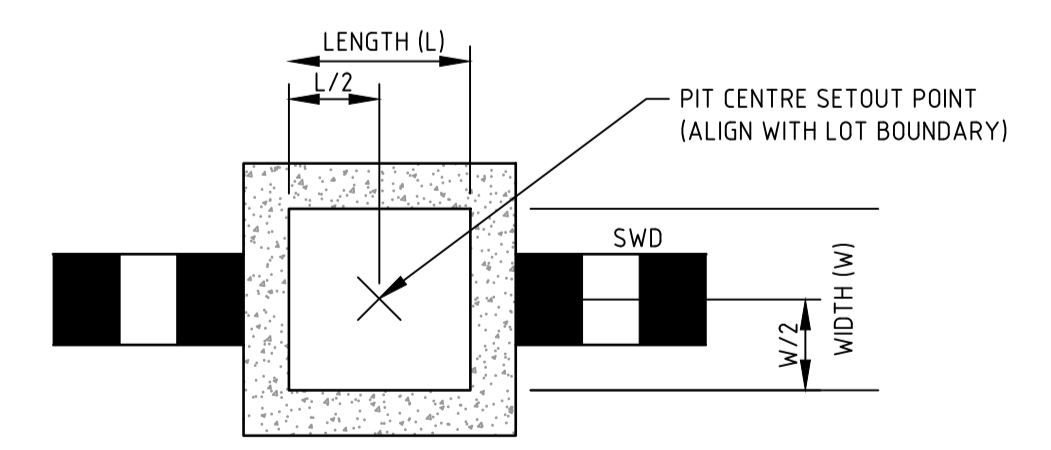


DRAINAGE PIT SCHEDULE

PIT NAME	PIT TYPE	EASTING	NORTHING	INTERNAL		INLET		OUTLET		PIT		REMARKS	STEP IRON	LADDER
				WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH			
62	SIDE ENTRY PIT	745843.143	5837031.948	0.9	0.9	300	429.763	375	429.688	431.586	1.898	REFER TO COB SD-P1-2	X	
63	SIDE ENTRY PIT	745788.435	5837041.616	0.9	0.9	300	430.276	300	430.226	432.03	1.804	REFER TO COB SD-P1-2	X	
64	JUNCTION PIT	745766.912	5837045.42	0.9	0.9			300	430.588	432.212	1.624	REFER TO COB SD-P10-2	X	
65	JUNCTION PIT	745869.835	5837027.28	0.9	0.9			300	429.914	431.357	1.444	REFER TO COB SD-P10-2	X	
67	SIDE ENTRY PIT	745819.958	5837044.982	0.9	0.9			300	430.182	431.777	1.595	REFER TO COB SD-P1-2	X	
68	SIDE ENTRY PIT	745789.953	5837050.284	0.9	0.9	300	430.414	300	430.364	432.03	1.667	REFER TO COB SD-P1-2		
69	JUNCTION PIT	745777.636	5837052.461	0.9	0.9			300	430.507	432.123	1.617	REFER TO COB SD-P10-2	X	
611	SIDE ENTRY PIT	745912.489	5837011.443	0.9	0.9			300	429.752	431.009	1.257	REFER TO COB SD-P10-2	X	
Ex42	JUNCTION PIT	745903.967	5837012.936	0.9	1.2	300	429.644			431.032	2.272			
Ex539	SIDE ENTRY PIT	745844.675	5837040.614	0.9	0.9	375	429.6			431.586	2.286			
Ex541	SIDE ENTRY PIT	745829.402	5837051.589	0.9	1.8	300	429.894			431.524	2.024			



By D. Hastings at 5:30 pm, Mar 18, 2022



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

Parameter	Value
Pipe Diameter	375φ
Joint Type	RRJ
Pipe Class	Class 3
Pipe Grade	1 in 100
Velocity (m/s)	Vf=1.588
Pipe Flow (m³/s)	Qa=0.099
Pipe Capacity (m³/s)	Qcap=0.175
DATUM R.L.	422.00

Parameter	Value
Pipe Diameter	300φ
Joint Type	FJ
Pipe Class	Class 2
Pipe Grade	1 in 120
Velocity (m/s)	Vf=1.636
Pipe Flow (m³/s)	Qa=0.016
Pipe Capacity (m³/s)	Qcap=0.116
DATUM R.L.	422.00

Parameter	Value
Pipe Diameter	300φ
Joint Type	FJ
Pipe Class	Class 2
Pipe Grade	1 in 180
Velocity (m/s)	Vf=1.020
Pipe Flow (m³/s)	Qa=0.016
Pipe Capacity (m³/s)	Qcap=0.072
DATUM R.L.	422.00

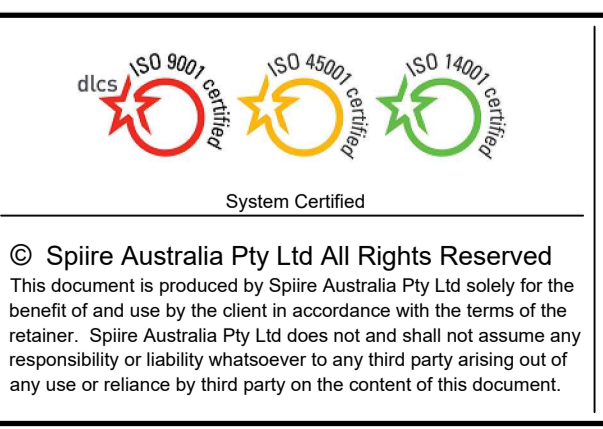
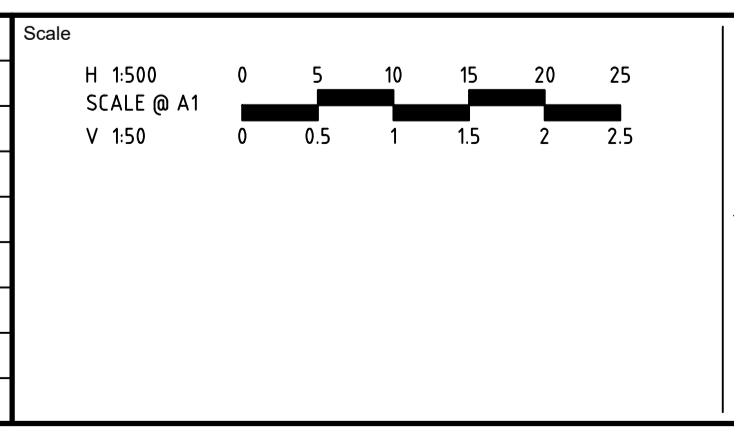
Parameter	Value
Pipe Diameter	300φ
Joint Type	FJ
Pipe Class	Class 2
Pipe Grade	1 in 40
Velocity (m/s)	Vf=2.164
Pipe Flow (m³/s)	Qa=0.004
Pipe Capacity (m³/s)	Qcap=0.153
DATUM R.L.	422.00

Parameter	Value
Pipe Diameter	300φ
Joint Type	RRJ
Pipe Class	Class 3
Pipe Grade	1 in 100
Velocity (m/s)	Vf=1.369
Pipe Flow (m³/s)	Qa=0.019
Pipe Capacity (m³/s)	Qcap=0.097
DATUM R.L.	422.00

Parameter	Value
Pipe Diameter	300φ
Joint Type	FJ
Pipe Class	Class 2
Pipe Grade	1 in 125
Velocity (m/s)	Vf=1.224
Pipe Flow (m³/s)	Qa=0.015
Pipe Capacity (m³/s)	Qcap=0.087
DATUM R.L.	422.00

Parameter	Value
Pipe Diameter	300φ
Joint Type	RRJ
Pipe Class	Class 3
Pipe Grade	1 in 80
Velocity (m/s)	Vf=1.530
Pipe Flow (m³/s)	Qa=0.010
Pipe Capacity (m³/s)	Qcap=0.108
DATUM R.L.	421.00

Rev	Description	Approved	Date
C	STREET NAMES AMENDED	AW	07/03/22
B	LANDSCAPING AMENDMENTS	AW	21/02/22
A	PRELIMINARY ISSUE	AW	05/11/21



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 VICTORIA 3550 AUSTRALIA T 61 3 5448 2500
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Designed S.WOOD	Checked B.IBBS
Authorised A.WILKIE	Date

CONROYS GREEN
STAGE 6
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 1
 CITY OF BALLARAT
 SAN HUBERTO PROPERTIES P/L

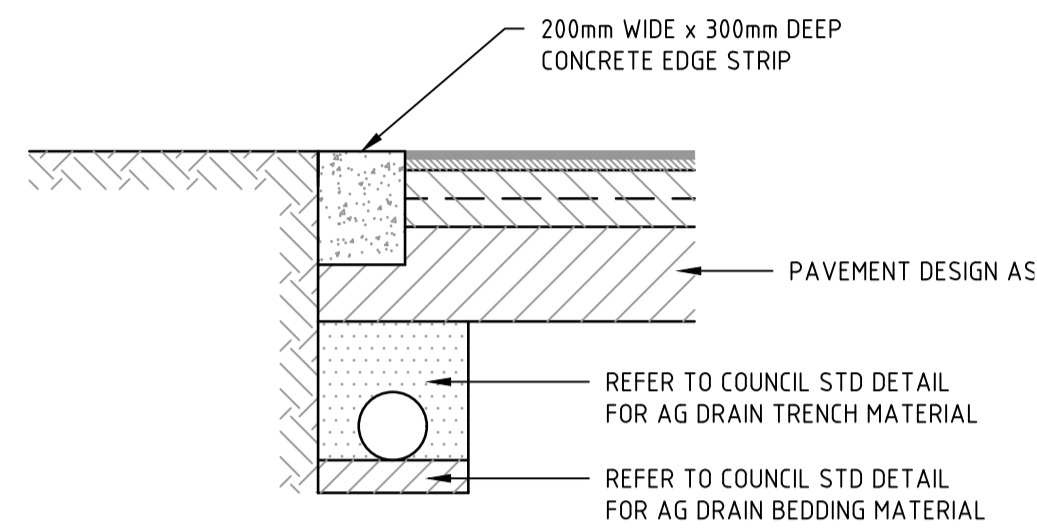
PRELIMINARY Drg No **309528CR600** Rev **C**

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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 ⁻⁹ 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

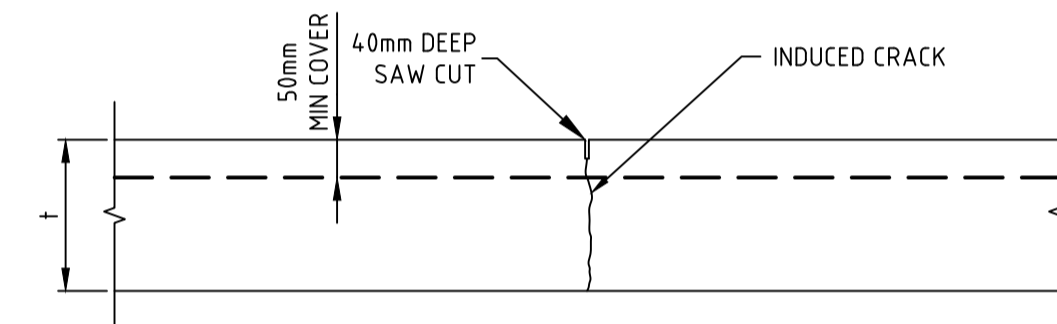


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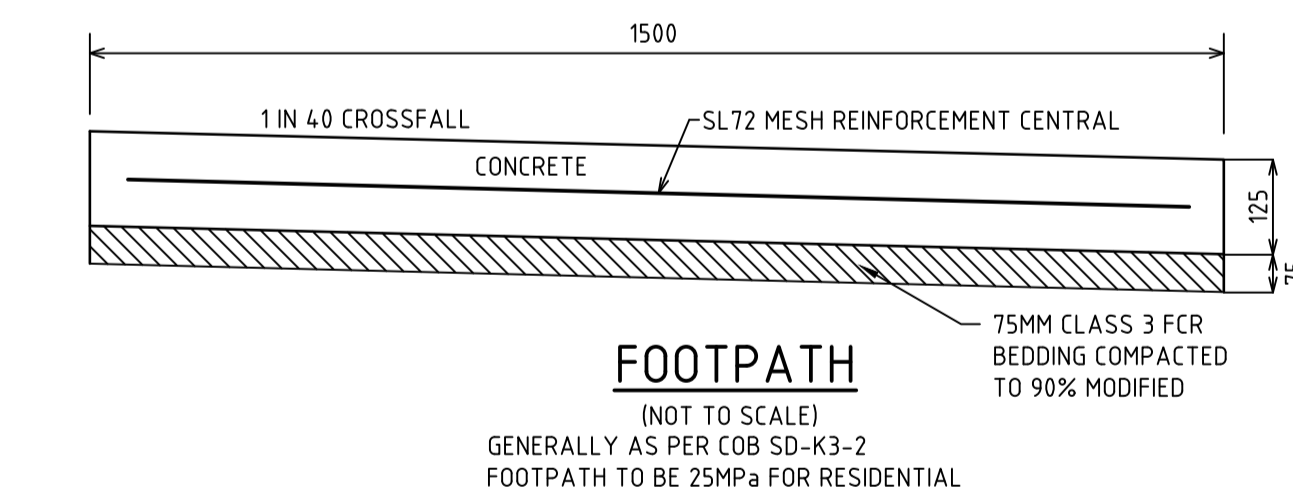
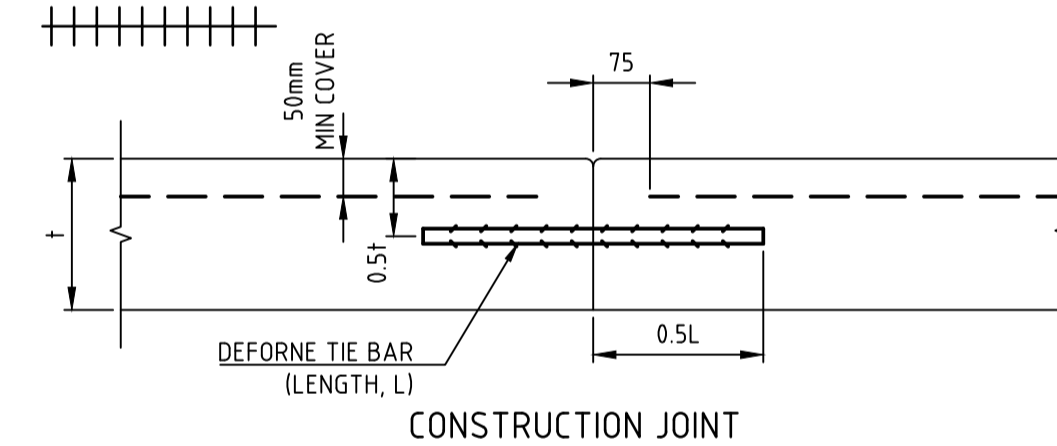
- ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE, OR VIC ROADS STANDARDS FOR NON RESIDENTIAL STREETS.
- ALL CONCRETE TO BE MINIMUM 32MPa COMPRESSIVE STRENGTH
- CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY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

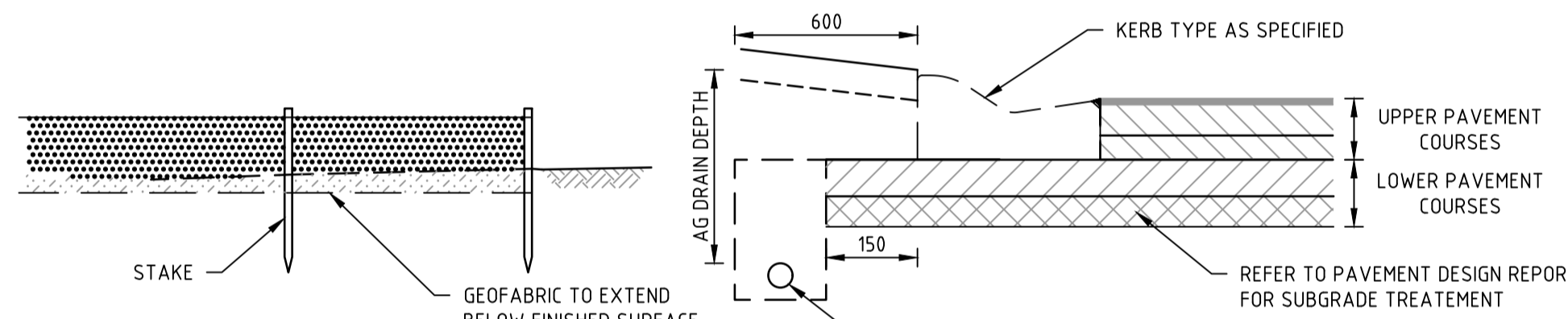


CONSTRUCTION JOINT

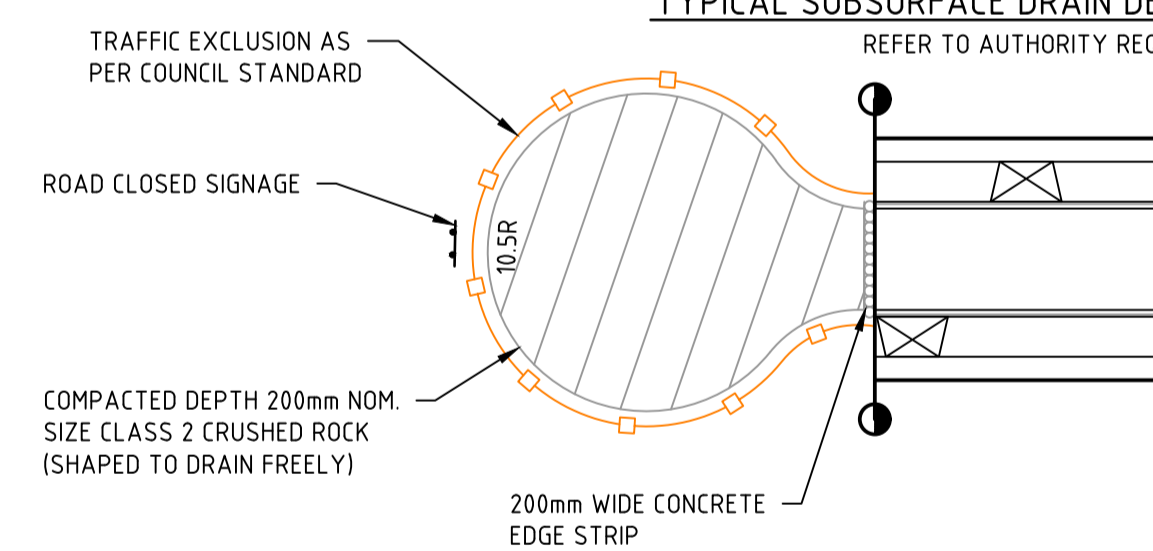


PAVEMENT PLAN

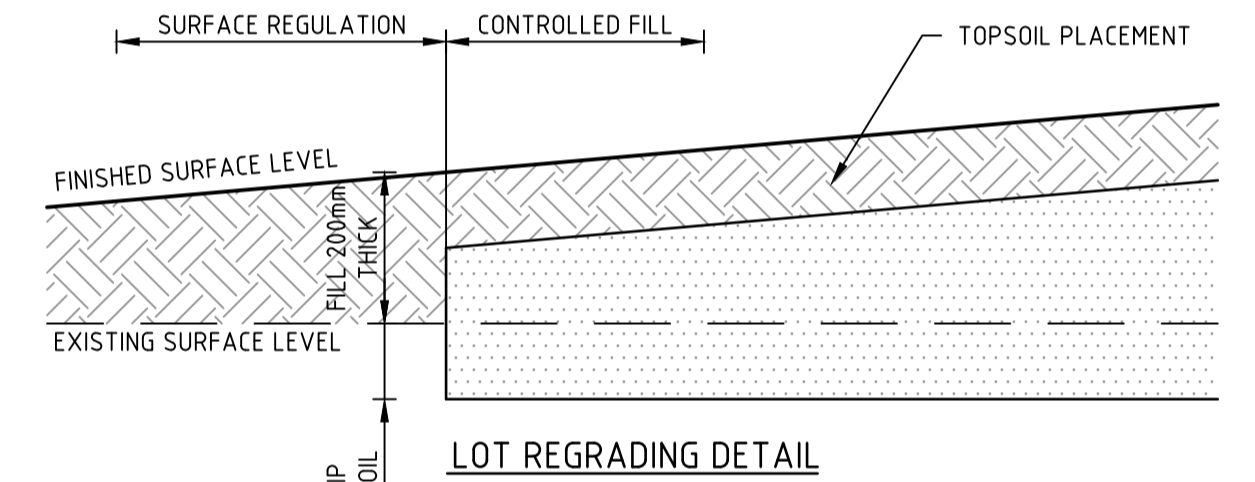
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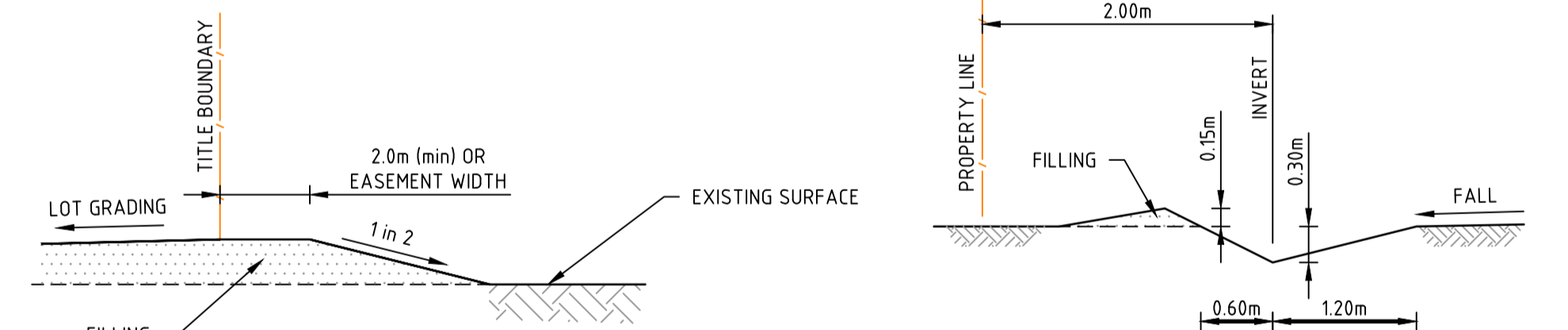
SILT CONTROL FOR LOTS
GEOFABRIC SILT FENCE



TEMPORARY TURNING AREA DETAIL
NOT TO SCALE



LOT REGRADING DETAIL

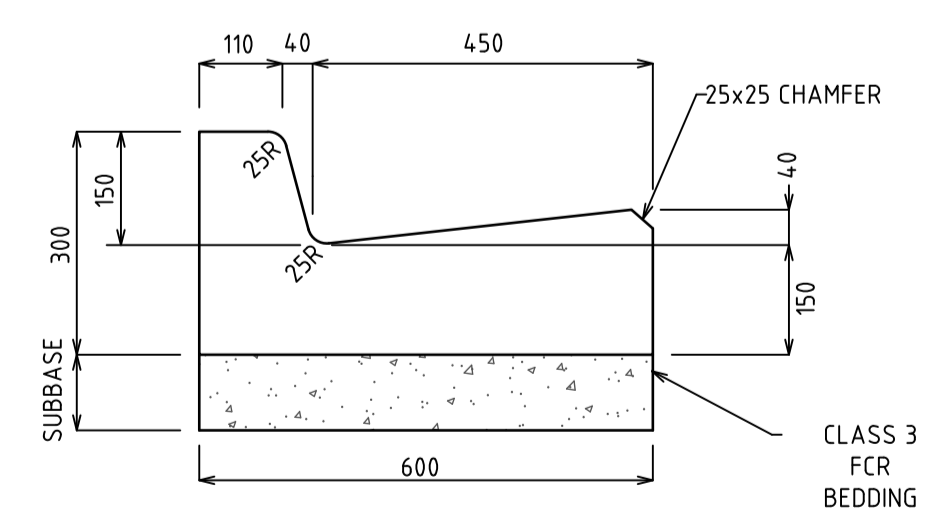


TYPICAL CATCH DRAIN SECTION

LOT FILLING AT STAGE BOUNDARY



NOT TO SCALE



B2 - STANDARD KERB & CHANNEL
STANDARD KERB PROFILES
NOT TO SCALE

PAVEMENT DETAILS

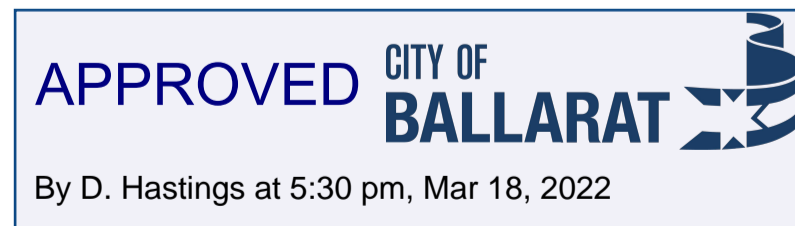
THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY GTS WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIIRE IS NOT RESPONSIBLE FOR THE WORK OF GTS.

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.



file name: 309528CR700.dwg, location: c:\projects\309528\309528.dwg, plot date: 07/03/2022 09:37 AM, sheet: 13 of 14, sheets

Rev	Description	AW	Date
A	PRELIMINARY ISSUE	AW	05/11/21
	Amendments	Approved	Date

System Certified

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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

CONROYS GREEN

STAGE 6

ROAD AND DRAINAGE

PAVEMENT AND TYPICAL DETAILS - SHEET 1

 CITY OF BALLARAT

 SAN HUBERTO PROPERTIES P/L

PRELIMINARY
Dwg No
309528CR700
Rev
A



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

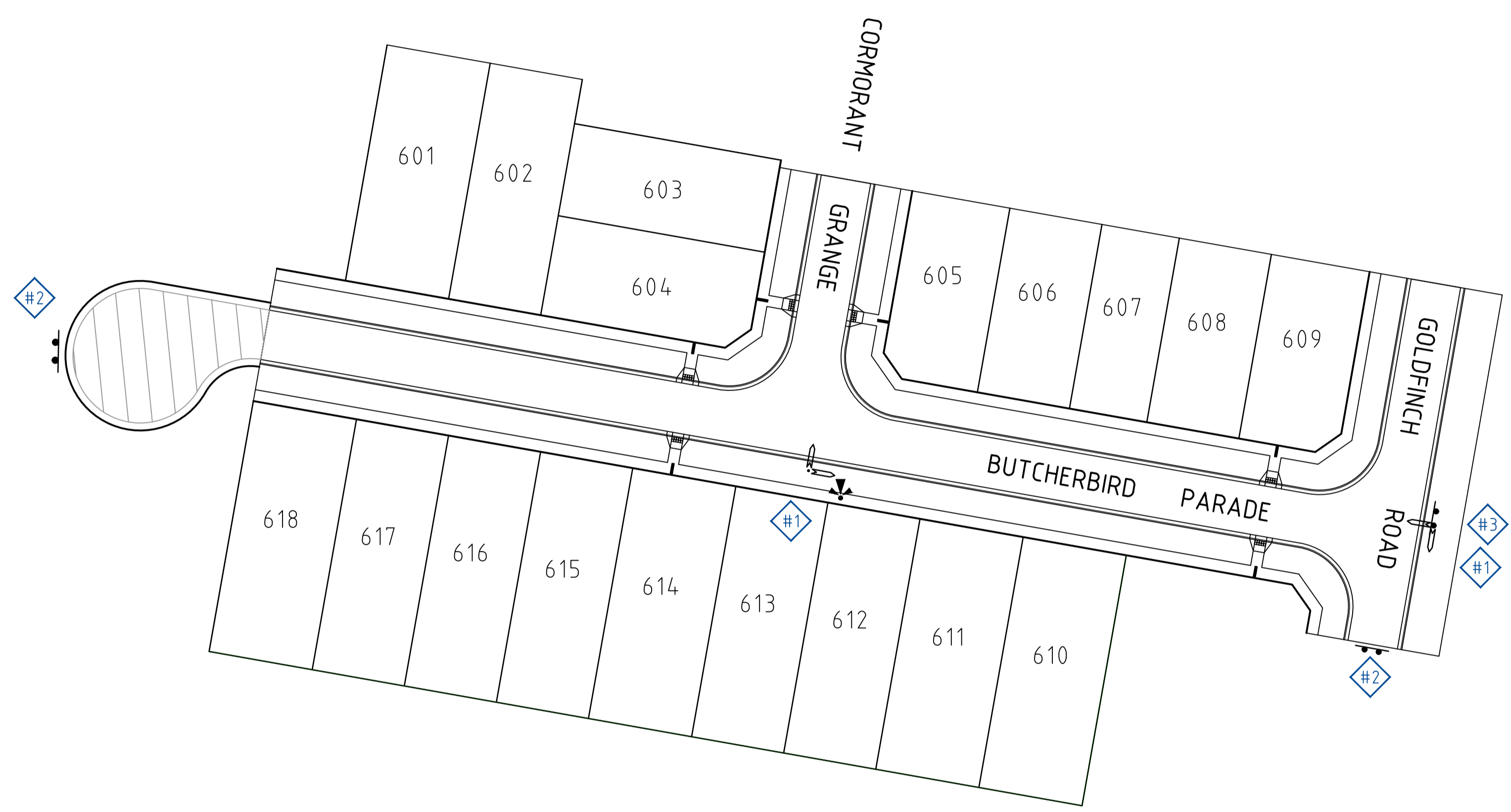
#3 D4-2-1

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

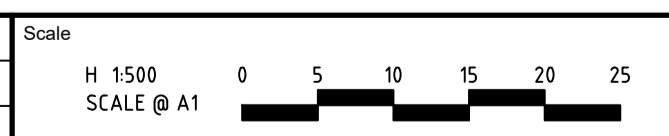


APPROVED CITY OF BALLARAT

By D. Hastings at 5:30 pm, Mar 18, 2022

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Rev	Amendments	Approved	Date
B	LANDSCAPING AMENDMENTS	AW	21/02/22
A	PRELIMINARY ISSUE	AW	05/11/21



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S.WOOD

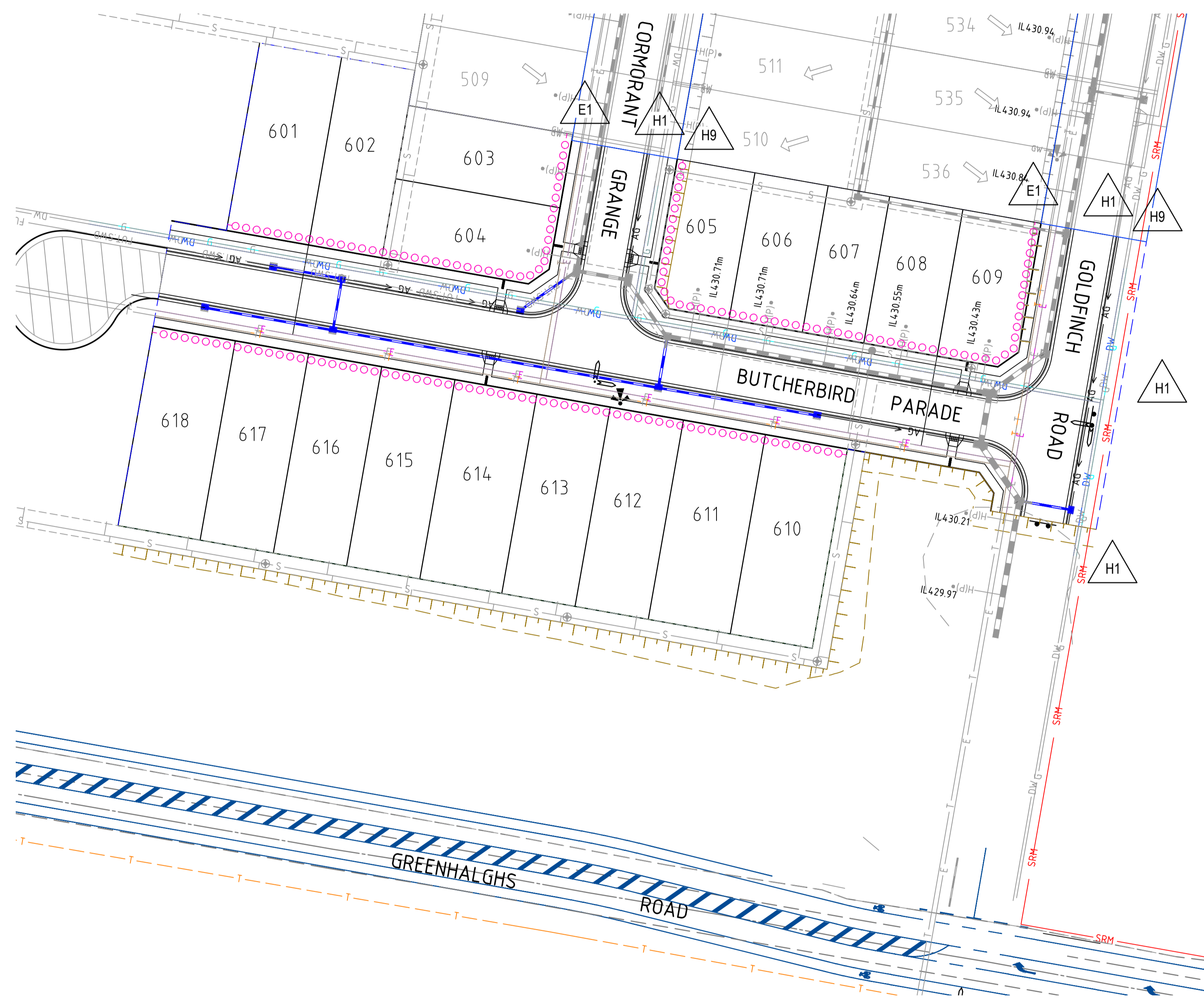
Authorised
A.WILKIE

Checked
B.IBBS

Date

CONROYS GREEN
STAGE 6
 ROAD AND DRAINAGE
 SIGNAGE AND LINEMARKING - SHEET 1
 CITY OF BALLARAT
 SAN HUBERTO PROPERTIES P/L

PRELIMINARY Dwg No **309528CR800** Rev **B**



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	✓	CONTRACTOR TO MARK LOCATION OF SEDIMENT CONTROL POINTS ON PLAN FOR APPROVAL ALSO INDICATING METHOD		E14	BLASTING / VIBRATION CONTROL	✗	CONTRACTOR TO MARK LOCATION ON PLAN FOR APPROVAL	

LEGEND

	LOCATION OF SITE COMPOUND
	SILT FENCE
	SILT SOCK

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.

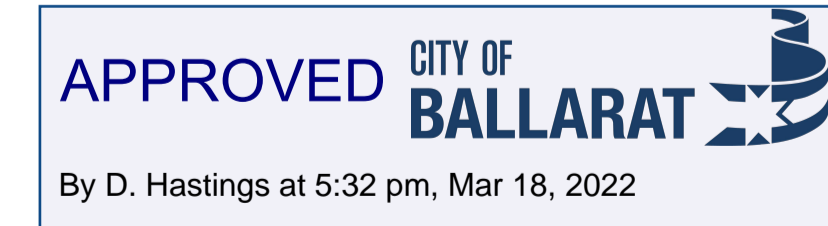
BEWARE OF OVERHEAD ELECTRICITY
CONTRACTOR TO EXERCISE EXTREME CARE WHEN WORKING UNDER OVERHEAD ELECTRICITY. CONTACT POWERCOR FOR SAFETY GUIDELINES FOR WORKING UNDER POWERLINES

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 SILT FOR 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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A	PRELIMINARY ISSUE	A.W	11/10/21	
Rev	Amendments	Approved	Date	

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Designed
S.WOOD
Authorised
A.WILKIE

Checked
A.WILKIE
Date
11/10/21

CONROY'S GREEN STAGE 4
ENVIRONMENTAL MANAGEMENT PLAN - SHEET 1
BALLARAT CITY COUNCIL
ABIWOOD CREEKSIDE PTY LTD
PRELIMINARY Drg No 308874CE001 Rev 0

