GENERAL NOTES:

<u>SURVEY</u>

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP 1. GRID OF AUSTRALIA (MGA) 2020, ZONE 54.
- 2. 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.
- 4. 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 7. 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.
- 9. FILLING MATERIAL IS TO BE IN ACCORDANCE WITH THE SPECIFICATION, AS 3798-2007 & TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT.
- 10. ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.
- 11. 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.
- 12. 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.
- 13. AT LEAST 3 DAYS PRIOR TO COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 1.50m 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.
- 14. 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.
- 15. 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
- 16. NO BLASTING TO BE CARRIED OUT WITHIN THE MUNICIPALITY WITHOUT OBTAINING COUNCILS PERMISSION.

SERVICES

- 17. 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
- 18. ALL SERVICE CONDUIT TRENCHES UNDER ROAD PAVEMENTS TO BE BACKFILLED IN ACCORDANCE WITH RELEVANT MUNICIPALITY OR ROAD AUTHORITY SPECIFICATION.
- 19. WATER TAPPINGS TO BE LOCATED IN CENTRE OF ALLOTMENTS UNLESS OTHERWISE SHOWN.
- 20. TELSTRA ARE TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS. STORM WATER DRAINAGE
- 21. AG/SUBSOIL DRAIN TO BE LAID BEHIND KERB WHERE REQUIRED IN ACCORDANCE WITH THE COUNCIL STANDARD DRAWINGS AND CONNECTED TO UNDERGROUND DRAINAGE.
- 22. 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.

- 23. CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.2m (WHERE OUTSIDE OF SEWER) FROM THE PROPERTY LINE UNLESS SHOWN OTHERWISE.
- 24. 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.

<u>PAVEMENT</u>

- 25. 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.
- 27. 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

- 28. 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.
- 29. ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH AS 1742-3.
- 30. TACTILE GROUND SURFACE INDICATORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE DISABILITY DISCRIMINATION ACT AND RELEVANT COUNCIL STANDARD DRAWINGS.

<u>ENVIRONMENTAL</u>

- 31. 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.
- 33. TREES NOT SPECIFIED FOR REMOVAL ARE TO BE PROTECTED WITH APPROPRIATE EXCLUSION FENCING PRIOR TO COMMENCEMENT OF ANY WORKS.

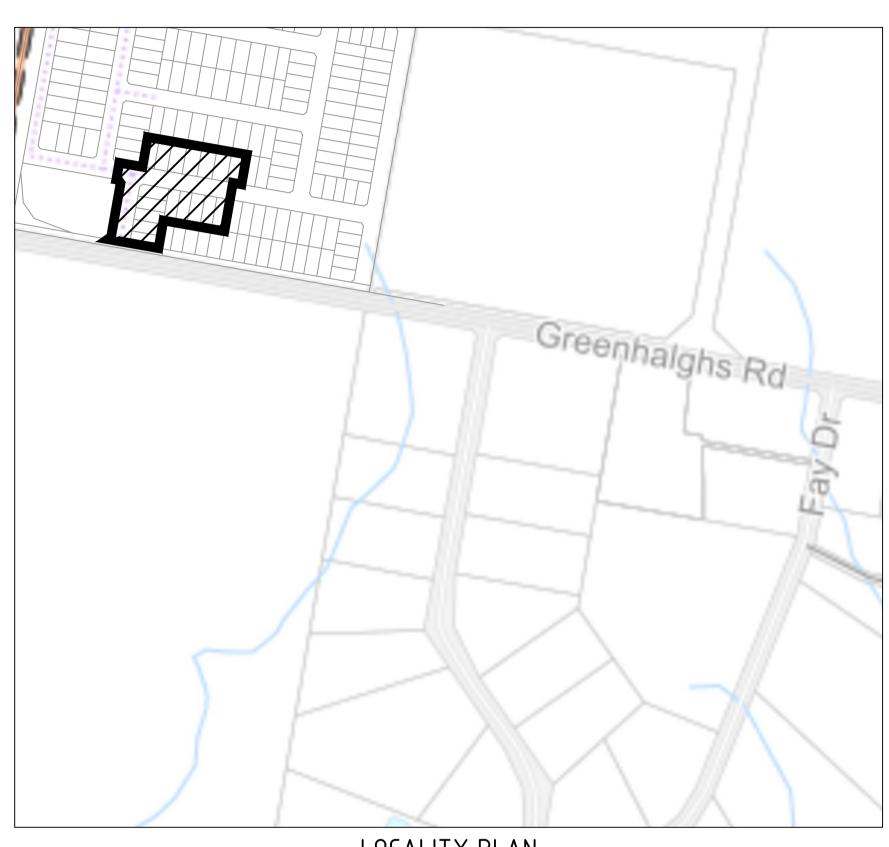


WARNING

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.

Rev	Amendments		Approved	Date

CONROY'S GREEN STAGE 7 SAN HUBERTO PROPERTY P/L



LOCALITY PLAN H 1:4000 0 40 80 120 160 200 SCALE @ A1

DRAWING SCHEDULE

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



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Designed S.WOOD Authorised A.WILKIE

Checked

Date

LEGEND

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MGA 2020

ZONE 54

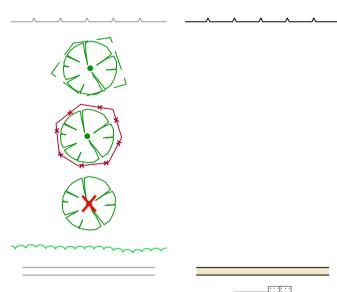
DESCRIPTION EXISTING PROPOSED WATER MAIN, VALVE AND HYDRANT — — DW — — UNDERGROUND ELECTRICITY **TELECOMMUNICATIONS & SERVICE PIT** — — I — I — — — GAS MAIN BRANCH SEWER & MAINTENANCE STRUCTUR SEWER & MAINTENANCE STRUCTURE SEWER RISING MAIN CENTRAL INVERT _ _ > _ _ > _ **___>**___**>**____> COUNCIL STORMWATER DRAIN AND PIT STORM WATER DRAINAGE PROPERTY INLET 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 — RIDGE / CHANGE OF GRADE LINE _ · __ · __ · __ · _ SURFACE CONTOUR MINOR — 169 00 — SURFACE CONTOUR MAJOR SURFACE LEVEL E123.45 F124.68 BATTER LEVEL (TOP / TOE) T124.80 T124.80 1 in 150 EARTHWORKS GRADE SIGN AND POST ____ **___** STREET SIGN $^{\circ} \geq$ ۰ PERMANENT SURVEY MARK TEMPORARY BENCH MARK BOLLARD -CH1<u>16.57</u> (L/<u>R</u>)TP CH1<u>16.57</u> (L/<u>R</u>)TP ROAD CHAINAGES CH116.57 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

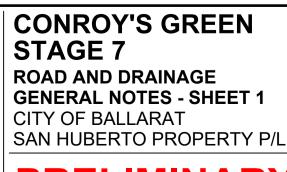
TREE (& SURVEYED CANOPY) TO BE RETAINED

TREE TO BE PROTECTED

TREE TO BE REMOVED

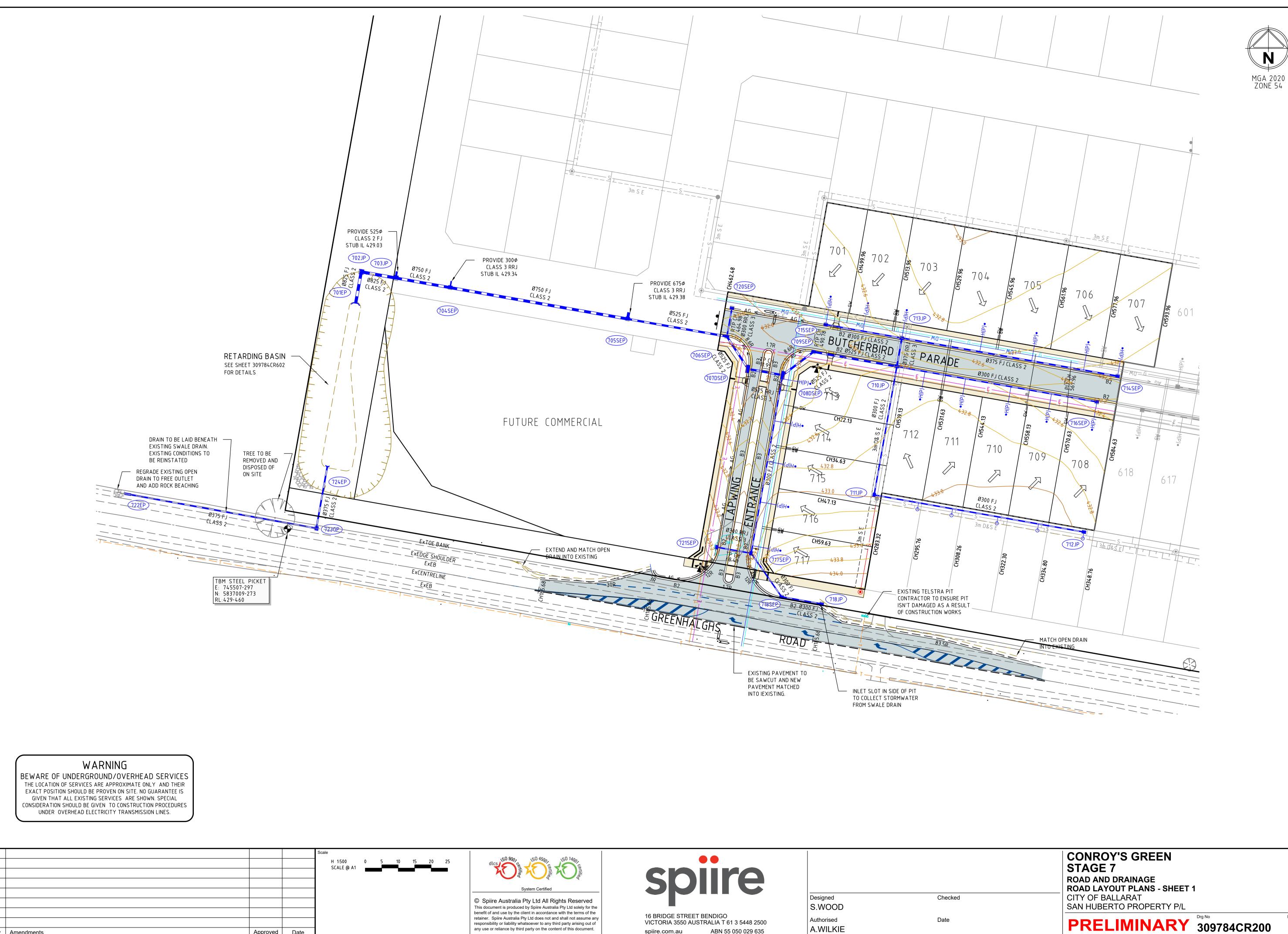
VEGETATION LINE FOOTPATH TACTILE GROUND SURFACE INDICATOR KERB TRANSITION





PRELIMINARY 309784CR100

Rev



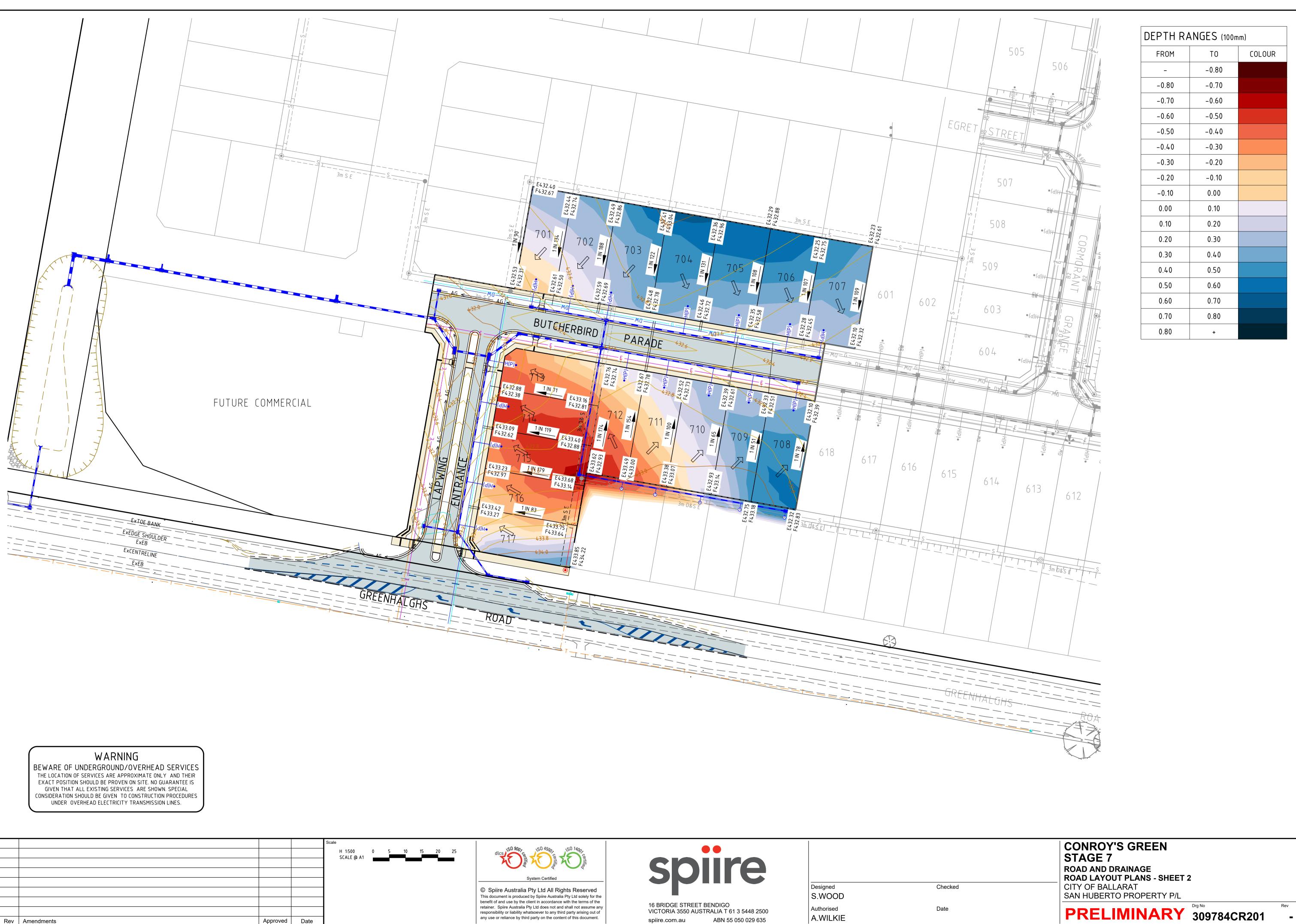




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Designed S.WOOD
Authorised

Rev



by St 2022 ted.

Rev Amendments

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A.WILKIE

DEPTH R	ANGES (100m	im)
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	+	

BUTCHERBIRD PARADE

	433.14 433.21 433.21 433.21 433.41 433.51 433.51 433.51						
+ + + + + + + - + - + - + - + - + - + -			AGE 7		STAGE 7	►	
0.000 5.750 6.200 6.240 6.240 6.240 6.240 11.950 11.950 12.633 13.673 13.673 23.673 34.630 35.101 7.0000							
VERTICAL GEOMETRY	30.00m VC			40.00m VC			
DESIGN GRADELINE	0.50%	1.50%	6		-0.83%		
DATUM RL 428.5							
DESIGN CENTRELINE	430.913 430.980 430.980 431.001 431.014 431.066 431.113 431.215 431.404	431.487 431.487 431.764 431.764 431.861 431.861	432.087 432.199 432.248 432.248 432.386 432.471	432.576 432.621 432.626 432.654 432.664 432.664 432.664 432.664 432.664 432.604 432.604	+32.615 +32.500 +32.599 +32.485 +32.583 +32.485 +32.583 +32.485 +32.511 +32.436 +32.511 +32.335 +32.450 +32.335 +32.453 +32.335 +32.433 +32.318 +32.433 +32.318 +32.316 +32.202 +32.316 +32.202 +32.316 +32.316 +32.316 +32.316	432.085 432.059 431.985 431.981 431.954 431.850 431.818	431.734 431.651 431.651 431.630 431.572 431.568
LEFT DESIGN BOUNDARY	431.027 431.095 431.115 431.115 431.128 431.128 431.129 431.229 431.229 431.329 431.570	938 938 976	432.201 432.313 432.363 432.363 432.501 432.586	432.690 432.735 432.741 432.741 432.779 432.779 432.779 432.779 432.779 432.719 432.719 432.716	432.615 432.599 432.593 432.583 432.5450 432.450 432.450 432.450 432.334 432.316 432.316 432.217 432.277		431.833
RIGHT DESIGN BOUNDARY	431.027 431.095 431.095 431.196 431.196 431.375 431.457 431.457 431.457 431.561 431.561 431.664	431.747 432.024 432.084 432.084	432.363 432.501 432.586	432.690 432.735 432.741 432.768 432.779 432.779 432.779 432.779 432.719 432.719 432.719 432.719	432.615 432.599 432.599 432.583 432.583 432.450 432.450 432.433 432.394 432.316 432.316	<u>31.</u> <u>31.</u> <u>31.</u>	4.31.84.8 4.31.881 4.31.890 4.31.833 4.31.829 4.31.823
LEFT DESIGN LIP OF KERB	430.801 430.868 430.868 430.954 430.954 431.003 431.003 431.003 431.003 431.003 431.292	31.652 31.675 31.712 31.750	431.975 432.087 432.087 432.137 432.274 432.275 432.359	432.464 432.509 432.515 432.542 432.552 432.552 432.552 432.552 432.593 432.493 432.493	432.389 432.373 432.373 432.357 432.284 432.266 432.050 432.051 432.051	31.973 31.947 31.947 31.873 31.843 31.843 31.739 31.739 31.739 31.661	431.461
RIGHT DESIGN LIP OF KERB	430.801 430.868 430.868 430.902 430.954 431.003 431.003 431.003 431.003 431.003 431.003 431.003 431.003 431.003	31.375 31.652 31.675 31.712	<u>137</u> <u>137</u> <u>137</u>	432.464 432.509 432.515 432.542 432.552 432.552 432.552 432.552 432.505 432.493 432.493	432.389 432.373 432.373 432.357 432.284 432.266 432.050 432.051 432.051		431.622 431.540 431.518 431.461 431.456
EX SURFACE LEFT BOUNDARY			432.743 432.3 432.743 432.3 432.750 432.3	432.759 432.764 432.717 432.717 432.676 432.676 432.674 432.584 432.522 432.500 432.500	558.135 432.366 432.389 432.389 432.615 4 560.000 432.359 432.389 432.373 432.599 4 560.000 432.359 432.373 432.599 4 561.957 432.352 432.381 432.357 432.593 4 570.635 432.319 432.333 432.384 432.511 4 570.635 432.319 432.333 432.284 432.511 4 570.635 432.319 432.333 432.284 432.511 4 570.635 432.319 432.316 432.516 432.450 4 584.635 432.216 432.168 432.394 4 584.635 432.096 432.090 432.394 4 593.957 432.096 432.090 432.316 4 598.635 432.096 432.090 432.316 4 598.635 432.096 432.090 432.316 4 598.635 432.096 432.090 432.316 4 598.635 432.096 432.090	431.923 431.906 431.906 431.828 431.828 431.681 431.681 431.643 431.589	650.135431.544431.622650.000431.547431.540660.000431.367431.540662.635431.319431.518669.488431.252431.194669.488431.252431.194670.000431.250431.185670.000431.250431.185
EX SURFACE RIGHT BOUNDARY		432.268 432.286 432.335 432.335	432.473 432.525 432.548 432.548 432.613 432.613 432.613 432.638	432.593 432.551 432.542 432.542 432.489 432.489 432.489 432.488 432.483 432.483 432.460 432.458	432.356 432.359 432.359 432.359 432.319 432.240 432.193 432.096 432.057 432.057	431.973 431.944 431.9444 431.861 431.857 431.830 431.582 431.582	431.252
CHAINAGE	380.000 393.457 393.457 397.596 400.000 400.000 412.596 412.596 421.457 421.457 421.457	.0000 .0000 .0000 .0000	480.000 487.457 490.785 499.957 500.000 505.631	513.957 519.135 520.000 520.000 520.000 529.957 531.346 531.635 531.635 531.635 54.0000 54.5.957 54.5.957	558.135 560.000 560.000 561.957 561.957 577.957 580.000 584.635 593.957 593.635	607.957 611.135 611.135 620.000 620.457 623.635 636.135 636.135 640.000	650.135 660.000 662.635 669.488 670.000

LAPWING ENTRANCE

VERTICAL GEOMETRY		0. 375 -2.50%	.00% 5.00%	% 50%	6	<		20.0)0m	VC		>	<		2	0.00	m V	'C >								-2. -375	22%	2				
DESIGN GRADELINE		-2.50% 2. <	22%			1.	25%		~			3.	33%		+	->	<	1.3	3B%	+		>	<	1.8	35%	-375 0.0	0%	4.0()%	-B.3:	2%	
DATUM RL 427.0				\neg	\rightarrow					\vdash	\vdash		\mathbb{A}	\mathbf{a}	\downarrow		\downarrow				\rightarrow			\mathbf{i}	\rightarrow		\mathbb{V}		\neg	$\stackrel{\checkmark}{\rightarrow}$	\downarrow	\rightarrow
DESIGN CENTRELINE	432.055	431.911	431.921	432.071	432.071	432.099 1.22102	4.37.102	432.115	432.215	432.258	432.292	432.574	432.606	432.621	432.773	432.905	432.950	433.088		433.148	251.254 ددا: 433.252	433.220	433.266	433.269	433.283	433.457	433.457	433.307	433.297	433.361 1.33.61.9	740.CC4	0حכ.25 4
LEFT DESIGN BOUNDARY						432.217 1.32.217		432.233	432.333	432.376	432.399	432.598	432.622	432.638	432.789	432.921	432.967	433.169		433.266 *20.00	433.271	433.338 , ac cc ,		433.387								
RIGHT DESIGN BOUNDARY						432.217	022.7C+	432.233	432.333	432.376	432.411	432.692	432.724	432.133	432.823	432.890	432.910	433.048		7108 F14	433.11/	433.238	433.311	415.514								
LEFT DESIGN LIP OF KERB						431.825 1.31.828	4.21.020	431.841	431.941	431.984	432.019	432.300	432.331	432.34/	432.498	432.630	432.676	432.814		418.264	432.879	432.946	4.32.992 4.32.992	432.995								
RIGHT DESIGN LIP OF KERB						431.825 1.31.828	4.31828	431.841	431.941	431.984	432.019	432.300	432.331 710001	432.341	432.498	432.630	432.676	432.814		432.874	432.879	432.946	4.32.992 4.32.992	432.995								
EX SURFACE LEFT BOUNDARY						087 CE.1	4.22.000	432.688	432.817	432.878	432.921	433.081		4 33.101		433.208	433.233	433.359		114.554	433.421	433.481	433.511 ch3cci	433.513	433.522							
EX SURFACE RIGHT BOUNDARY						אחב חב ו	1, 20 505	430.471	431.618	431.452	431.332	430.380	430.210 412	4.30.112	429.199	429.238	429.240	429.260		479.246	4.29.244	429.259	1.20.267	4.29.268	4.29.2.10							
CHAINAGE	0.000	5.750	6.200	6.240	6.350	11.950 12 550	10 EEA	13.673	20.000	22.130	23.673	33.673	34.630 55.404	101.65	40.000	45.101	47.130	55.101		059.62	60.000	65.000	005.79 71272	67.647	68.400	77.800	77.910	77.950	78.400	80.000 87 207	407.10	40.2.0 4







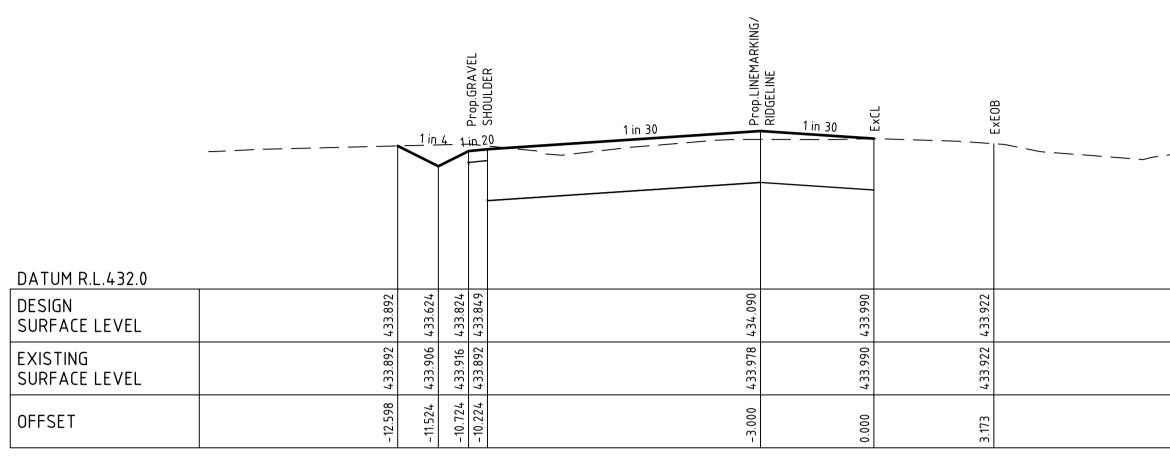
Designed S.WOOD Authorised A.WILKIE

Checked

Date

PRELIMINARYDrg No
309784CR300Rev
-

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



GREENHALGHS R	OAD	CH 270.33									
				1 in 30	1 in 30						
DATUM R.L.431.0											
DESIGN SURFACE LEVEL	432.719	432.438	432.638 432.663	432.962	432.871	432.716					
EXISTING SURFACE LEVEL	432.719	432.739	432.753 432.762	432.811	432.871	432.716					
OFFSET	- 14.124	-13.000	-12.200 -11.700	-2.737	0.000	3.568					

GREENHALGHS ROAD

СН	218.36

		1 in 13.4		1 in 30	1 in 30	
DATUM R.L.431.0						
DESIGN SURFACE LEVEL	776 687	32.150	432.350 1.32375	32. 33.	432.468	432.307
EXISTING SURFACE LEVEL	776 687	432.107	432.194	3. 33.	432.468	432.307
OFFSET		-7.067	-6.267		0.000	3.484

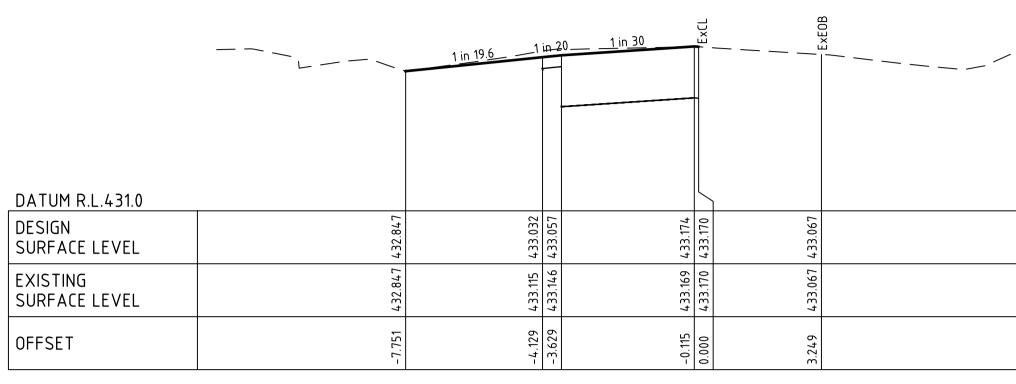
GREENHALGHS ROAD

CH 205.00

			1	1 in 30		
		<u>1 in 418</u> — x	in 4			
DATUM R.L.430.0					\mathbf{b}	
DESIGN SURFACE LEVEL	431.676	431.589	431.789 431.814	431.923	624.164 677151	711.104
EXISTING SURFACE LEVEL	431.676	431.783	4 31.815 4 31.835		624.164 677.15.1	711.104
OFFSET	-8.244	-4.593	-3.793		0000.0 000.0	704.0

GREENHALGHS ROAD

СH	185.68
C	105.00



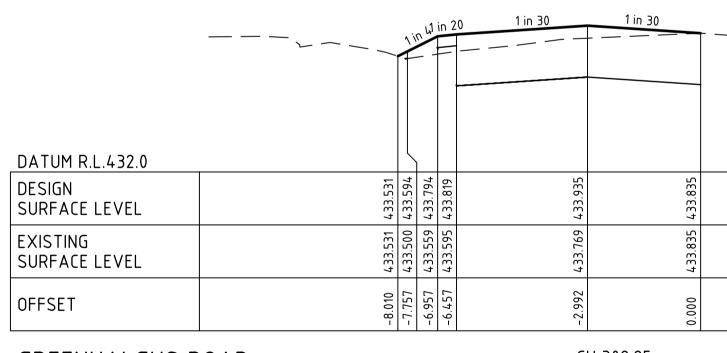
GREENHALGHS ROAD

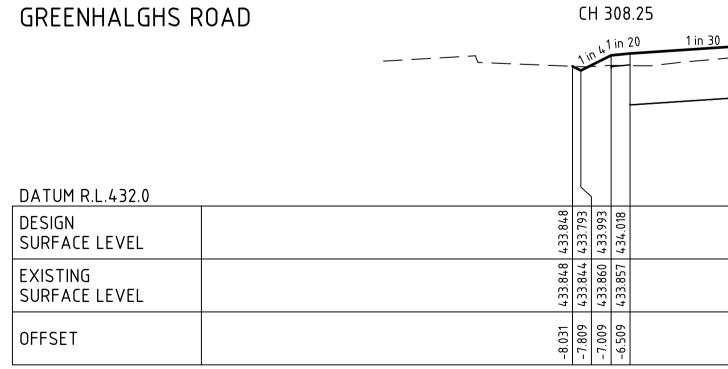
CH 340.79

		1 in 9 1	in 2	0 1 in 30	<u>1 in 30</u>	-
DATUM R.L.432.0						
DESIGN SURFACE LEVEL	433.262	433.491	433.516	433.633	433.573	
EXISTING SURFACE LEVEL	433.262	433.408	433.445	433.556	433.573	
OFFSET	- 7.827	-5.827	-5.327	- 1.812	0.000	

GREENHALGHS ROAD	

CH 322.30





GREENHALGHS ROAD



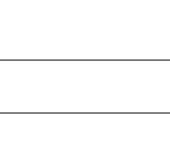
Designed
S.WOOD
Authorised
A.WILKIE

Checked	

Date

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CH 290.79		
	CONROY'S GREEN STAGE 7 ROAD AND DRAINAGE ROAD CROSS SECTIONS - SHEET 1	
	CITY OF BALLARAT SAN HUBERTO PROPERTY P/L	
	PRELIMINARY Drg No 309784CR400	ev •

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				Scale
				H 1:100 0 1 2 3 4 5 SCALE @ A1
				SCALE @ A1 V 1:50 0 0.5 1 1.5 2 2.5
				-
				-
Rev	Amendments	Approved	Date	

DATUM R.L.431.0	1 in 40	1 in 15	1 in 30	1 in 40		1 in 30	1 in 15	1 in 40
DESIGN SURFACE LEVEL	432.217 432.216 432.216	431.925	431.825	432.072 432.099	432.072	431.825 431.925	432.178	432.216
EXISTING SURFACE LEVEL	432.676 432.675 432.663	432.633	432.628	432.594 432.581	432.568	432.530 432.523	432.478	432.460
OFFSET	-10.250 -10.200 -8.700	006.4-	-4.300	-1.100 0.000	1.100	4.300	8.700	10.200
LAPWING ENTRA	NCE				CH 11.95			

LAPWING ENTRANCE

DATUM R.L.431.0		1 in 40	1 in 15			1 in 30		1 in 40	<u>1 in 40</u>	 	1 in 30		1 in 15	1 in 40		in 6
DESIGN SURFACE LEVEL	432.220 432.220	432.19		431.928	431.828	431.915	432.075	432.102	432.075	431.915	431.828	431.928	432.181	וטייברי חול לב ו	432.220	432.448
EXISTING SURFACE LEVEL	432.680	432.668		432.637	432.632	432.605	432.598	432.585	432.572	432.565	432.534	432.527	432,482	-	432.463	432.448
OFFSET	-10.250	- 10.200		-4.900	-4.300	-1.700	-1.100	0.000	1.100	1.700	4.300	4.900	8.700		10.250	11.617
LAPWING ENTRA	NCE							C	H 12.	55						

LAPWING ENTRANCE

CH 20.00

		1 in 4	.0	1 in 15				1 in 40	1 in 40				1 in 15	1 in 40	
					4	1 in 30	_				1 in 30				
				Ļ					L						
DATUM R.L.431.0															\square
DESIGN SURFACE LEVEL	432.333	432.332	432.295	432.041	431.941	432.028	432.188	432.215	432.188	432.028	431.941	432.041	432.295	432.332	18
EXISTING SURFACE LEVEL	432.817	432.816	432.789	432.719	432.708	432.671	432.664	432.651	432.638	432.631	432.601	432.594	432.550	432.532	(57 (5.)
OFFSET	-10.250	-10.200	-8.700	-4.900	-4.300	-1.700	-1.100	0.000	1.100	1.700	4.300	4.900	8.700	10.200	10 250

LAPWING ENTRANCE

CH 22.13

	0.05m	1.50m	3.80m		3.50m		B3	2.5(0.6(B	3.50m 0.60m	B2	3.80m 0.60m		1.50m		0.05m	<u>n</u>
		1 in 40	1 in 15		1 in 30			l in 40	<u>1 in 40</u>	_	1 in 30		1 in 15	, -	1 in 40		n.6	
DATUM R.L.431.0																\mathbb{N}		
DESIGN SURFACE LEVEL	432.376 452.376	432.338		432.084	4 31.704	432.071	432.231	432.258	432.231	432.071	431.984	432.084		432.338	432.375	32.	432.561	
EXISTING SURFACE LEVEL	432.879 432.879	432.849		32	C01.2C4	432.716	432.707	432.694	432.681	432.674	432.644	432.637		432.592	432.574	432.574	432.561	
OFFSET	-10.250	-8.700			-4.300	-1.700	-1.100	0.000	1.100	1.700	006.4	4.900		8.700	10.200	10.250	11.355	

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plotted by Sha 04/02/2022 3

name CR401 ; AD plot date (

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spire

Designed Checked S.WOOD Authorised Date A.WILKIE

LAPWING ENTRANCE

		1 in	40	1 in 25		1 in 30		1 in 40	<u>1 in 40</u>	 	1 in 30		<u>†in-15</u>
DATUM R.L.431.0		\leq											1
DESIGN SURFACE LEVEL	4 32.622	432.621	432.583	432.431	432.331	4 32.4 18	432.578	432.606	432.578	432.418	4 32.331	432.431	
EXISTING SURFACE LEVEL	4 33.094	433.093	433.063	432.972	432.958	4 32.896	432.881	432.855	432.829	432.815	4 32.753	432.738	
OFFSET	-10.250	-10.200	-8.700	-4.900	-4.300	-1.700	-1.100	0.000	1.100	1.700	4.300	4.900	
								СН	34.63				

LAPWING ENTRANCE

		1 i	n 40	1 in 25	 	1 in 30		1 in 40-	<u>1-in-40</u>	r	1 in 30		1 in <u>20</u> .5	1 in	40	1 ii	n 6	
DATUM R.L.431.0 DESIGN	789	788	750	598	4 98	585	145	773	145	585	4 98	598	784		821	823 /	563]
SURFACE LEVEL	432.	432.788	432.750	432.1	432.498	432.1	432.745	432.773	432.745	432.585	432.498	432.5	432.		432.821			
EXISTING SURFACE LEVEL	433.144	433.143	433.107	4 33.018	433.004	432.944	432.931	432.906	432.880	432.867	432.806	432.792	432.704		432.676	432.676	432.663	
OFFSET	-10.250	-10.200	-8.700	-4.900	-4.300	-1.700	-1.100	0.000	1.100	1.700	4.300	4.900	8.700		10.200	10.250	11.209	
								CH	40.0	0								

LAPWING ENTRANCE

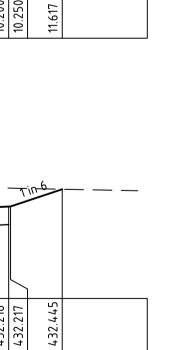
CH 47.13

		1 in 40	1 in 25		1 in 30		1 <u>in_40_</u>	<u>1 in 40</u>	ī	1 in 30	1 in 40		1 in	6
DATUM R.L.432.0	Ļ			_			J	L			-₽		\searrow	
DESIGN SURFACE LEVEL	432.967	432.965 432.928	432.776	432.676	4 32.762	432.922	432.950	432.922	432.762	432.676 476	32.8		432.910 7777	1 + 1 · 7 C +
EXISTING SURFACE LEVEL	433.233	433.232 433.196	433.106	433.092	433.030	433.016	432.990	432.964	432.949	432.888	432.798	432.768	432.767 7157	1 +1.20+
OFFSET	-10.250	-10.200 -8.700	-4.900	-4.300	-1.700	-1.100	0.000	1.100	1.700	4.300		10.200	10.250	C77'II

LAPWING ENTRANCE

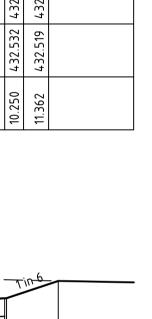
CH 59.63

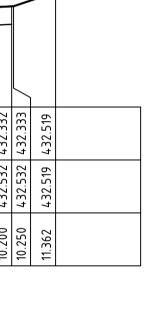
	0.05m	1.50	[™] ► -	3.80m —	B2	3.50m	B3	2.50 0.60	>	B3	3.50m 0.60m	B2	3.80m 0.60m	1.50m		0.05m	
			+0	1 in 15		1 in 30		1 in 40	1 in 40 		1 in_3 0	7	1 in 40			in 6	
DATUM R.L.432.0		\sum													\sum		
DESIGN SURFACE LEVEL	433.266	433.265	433.228		432.974 1.32.871.	170 CE 7	433.121	433.148	433.121	432.961	432.874	432.974	433.069	നി	433.108	432.859	
EXISTING SURFACE LEVEL	433.417	433.417	433.392		433.298 1.33.77		433.159	433.080	433.043	433.023	433.010	432.996	432.918	432.889	432.888	432.859	
OFFSET	-10.250	-10.200	-8.700		-4.900		-1.100	0.000	1.100	1.700	4.300	4.900	8.700	10.200	10.250	11.745	

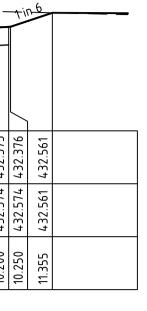


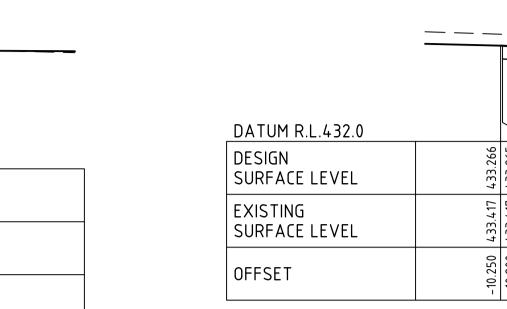
459

432.



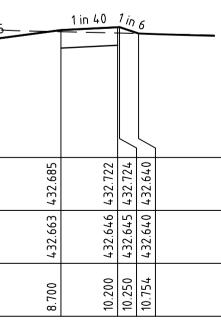






LH 40.00

LH 34.63



CONROY'S GREEN STAGE 7	
 ROAD AND DRAINAGE ROAD CROSS SECTIONS - SHEET 2 CITY OF BALLARAT	
SAN HUBERTO PROPERTY P/L	Rev
PRELIMINARY 309784CR401	-

				Scale							
					H 1:100 SCALE @ A1	0	1	2	3	4	5
					V 1:50	0	0.5	1	1.5	2	2.5
Rev	Amendments	Approved	Date								

LAPWING ENTRANCE

DATUM R.L.432.0			5	1 in 30	1 in 40	<u>1 in 40</u>	1 -in-3 0		1 in 38.4	1 in 40	
DESIGN SURFACE LEVEL	433.271	433.233	432.979 432.879	432.966	433.126 433.153	433.126 1.32 966	32.	432.979	433.078	433.116	433.117
EXISTING SURFACE LEVEL	433.421	433.396	433.308 433.287	433.149	433.049 432.989	432.952 1.37 937	433.012	432.998	432.921	432.892	432.891
OFFSET	-10.250	-8.700	006.4-	-1.700	-1.100 0.000	1.100	4.300	4.900	8.700	10.200	10.250

LAPWINGENIRANCE

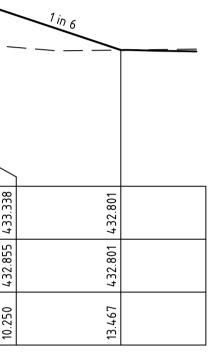
LAPWING ENTRA	NCE							CF	168	3.40				
		1 in 40-	1 <u>11n 15</u>				1 in 40	1 in 40	\	1 in 30		1 in 21.1	1 in 40	
DATUM R.L.431.0														Ь
DESIGN SURFACE LEVEL	433.384	433.345	433.092	432.992	4 33.079	433.239	433.266	433.239	433.079	432.992	433.092	433.272	433.310	433.311
EXISTING SURFACE LEVEL	433.511	433.486	433.309	433.280	432.292	432.209	432.203	432.232	432.253	432.342	432.363	432.847	432.812	432.809
OFFSET	-10.250	-8.700	-4.900	-4.300	-1.700	-1.100	0.00.0	1.100	1.700	4.300	4.900	8.700	10.200	10.250
LAPWING ENTRA	NCF							CH	67	7.50				

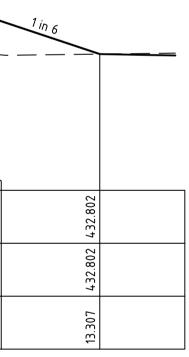
DATUM R.L.431.0		in 4 0	1 <u>in 15</u>		1 17 30	_ \` ر	1 in 40	<u>1 in 40</u>	^_	1 in 30		1 in 20	1 in 40	
DESIGN SURFACE LEVEL	433.401 433.400	433.362	433.109	433.009	433.095	433.255	433.283	433.255	433.095	433.009	433.109	433.299	<u>س</u>	433.338
EXISTING SURFACE LEVEL	433.522 433.521	433.490	433.305	433.275	432.543	432.197	432.200	432.241	432.266	432.373	432.397	432.920	32.	432.855
OFFSET	-10.250 -10.200	-8.700	-4.900	-4.300	-1.700	-1.100	0.000	1.100	1.700	4.300	4.900	8.700	10.200	10.250

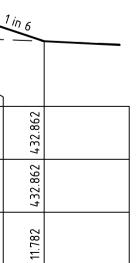
CH 60.00

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3.80m
3.50m
2.50m
3.50m
3.80m
1.50m
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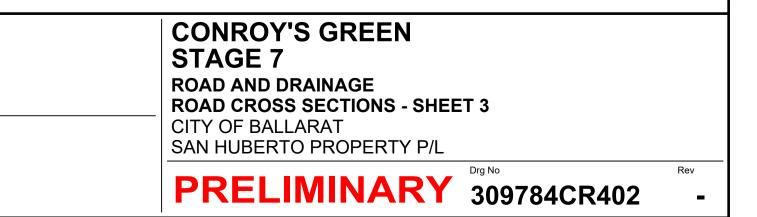


16 BRIDGE STREET BENDIGO VICTORIA 3550 AUSTRALIA T 61 3 5448 2500 ABN 55 050 029 635 spiire.com.au

Designed S.WOOD Authorised A.WILKIE

Checked

Date



DESIGN SURFACE LEVEL	431.976	431.975	431.937	431.850	431.750	4.31.861	
EXISTING SURFACE LEVEL	432.335	432.336	432.340	432.351	432.352	432.370	
OFFSET	000.6-	-8.950	-7.450	-3.950	-3.350	0.000	
BUTCHERBIRD P	ARADE					CH 40	64.99
				1 in 40			
				1 11 40		1 in 30	1 ir
				l			
DATUM R.L.430.0							
DESIGN SURFACE LEVEL	431.938	431.937	431.900	431.812	431.712	4.31.824	
EXISTING SURFACE LEVEL	432.311	432.311	432.315	432.326	432.327	432.345	
OFFSET	000.6-	-8.950	-7.450	- 3,950	-3.350	0.000	
BUTCHERBIRD P	ARADE						CH 462.4



1 in 30

1 in 30

432.137 432.237

432.631 432.636

3.350 3.950

431.750 431.850

387

432.

350

1 in 30

1 in 30

432.237 432.137

432.570

-3.950

			_	1 in 40	_	1 in 30	1 in 30	_	
DATUM R.L.431.0									
DESIGN SURFACE LEVEL		432.499	432.462	432.374	432.274	432.386	432.274	432.374	
EXISTING SURFACE LEVEL	432.613	432.613	432.619	432.634	432.637	432.666	432.696	432.701	
OFFSET	000.6-	-8.950	-7.450	-3.950	-3.350	0.000	3.350	3.950	
					-	-			

_____1 in 40

432.548 432.363 432.549 432.362

-9.000 -8.950

1 in 40

DATUM R.L.431.0

BUTCHERBIRD PARADE

DESIGN

EXISTING

OFFSET

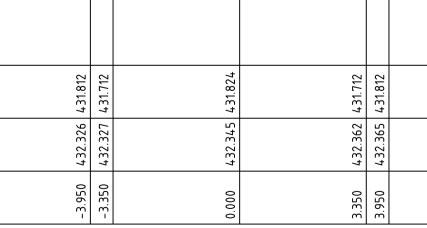
SURFACE LEVEL

SURFACE LEVEL

DATUM R.L.430.0

BUTCHERBIRD PARADE

CH 490.79



BUTCHERBIRD

48

H 1:100 0 1 2 3 4 5 SCALE @ A1 V 1:50 0 0.5 1 1.5 2 2.5 System Certified © Spiire Australia Pty Ltd All Rights Reserved This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document. ≝≝ Rev Amendments Approved Date

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Designed S.WOOD Authorised A.WILKIE

BUTCHERBIRD PARADE

					1 in 30	1 in 30	7				
DATUM R.L.431.0	l										l
DESIGN SURFACE LEVEL	432.501	432.500 432.63	432.375	432.275	432.387	432.275	432.375	432.463	432.500	432.501	
EXISTING SURFACE LEVEL	432.613	432.613 432.620	4 32.635	432.638	432.667	432.696	432.701	432.732	432.744	432.744	
OFFSET	000.6-	-8.950 -7 450	- 3.950	-3.350	0.000	3.350	3.950	7.450	8.950	9.000	
BUTCHERBIRD P	ARADE				CH 5	00.00					

BUTCHERBIRD PARADE

			1 in 40	— —	— — 1 in 3 0 — —	t in 30		1 in 4 0			
								₽ 			
DATUM R.L.431.0										L	
DESIGN SURFACE LEVEL	432.690	432.689 437.657	32.	432.464	432.576	432.464	432.564	432.652	432.689	432.690	
EXISTING SURFACE LEVEL	432.593	432.593	32.	432.630	432.677	432.726	432.731	432.750	432.759	32.	
OFFSET	000.6-	-8.950	 م	-3.350	0.000	3.350	3.950	7.450	8.950	9.000	

CH 513.96

Checked

Date

BUTCHERBIRD PARADE

1 in 40 <u>1 in 30</u> 1 in 30 _ _ _ DATUM R.L.431.0 432.735 432.734 .509 .609 DESIGN .509 SURFACE LEVEL 432. 432. 432. 432. 432.551 432.551 432.687 432.696 .589 .593 EXISTING SURFACE LEVEL 432. 432. -9.000 -8.950 .950 OFFSET 3.350 3.950 μ, μ. CH 519.13

BUTCHERBIRD PARADE

CH 529.96

1 in 40			
432.462	432.499	432.501	
432.731 432.462	432.744 432.499	432.744 432.501	
7.450	8.950	000.6	

432.362 432.363

432.675 432.676

8.950 9.000

432.416 432.121 432.417 432.122

8.950 9.000

432.083 432.084

432.391 432.392

8.950 9.000

1 in 40

1 in 40

1 in 40

324

432.

432

7.450

432.083

4 08

432.

7.450

432.046

432.

7.450

			1 in 40	_	1 in 30	1 in 30	_	1 in 40		1 —	
DATUM R.L.431.0											1
DESIGN SURFACE LEVEL	432.778	432.777	432.652	432.552	432.663	432.552	432.652	432.739	432.777	432.778	
EXISTING SURFACE LEVEL	432.477	432.477	t	432.538	432.557	432.592	432.601	432.651	432.685	432.686	
OFFSET	000.6-	-8.950		-3.350	0.000	3.350	3.950	7.450	8.950	9.000	
					רע ב	20.04	-				

1 <u>in_40</u> _		
		-
432.696	432.734	432.735
432.747	432.764 432.734	432.764 432.735
7.450	8.950	0000.6



Rev

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				Scale	
				H 1:100 0 1 2 3 4 5 SCALE @ A1	dlcs
				V 1:50 0 0.5 1 1.5 2 2.5	
					System Certified
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Rev	Amendments	Approved	Date		any use or reliance by third party on the content of this document.

BUTCHERBIRD PARADE

				1 in 40		1 in 30	1 in 30		1 in 40			
DATUM R.L.431.0												
DESIGN SURFACE LEVEL	432.779	432.777	432.740	432.652	432.552	432.664		200.20t	2c0.2c4	432.140	432.777 437.779	4 7 4 . 1 1 1
EXISTING SURFACE LEVEL	432.478	432.478	432.488	432.526	432.532	432.551		110.704	C8C.1254	432.039	432.672 432.674	472.014
OFFSET	000.6-	-8.950	-7.450	-3.950	-3.350	0.000			066.6	064.1	8.950 9.000	7.000
BUTCHERBIRD P	ARADE					СН 5	31.63					

BUTCHERBIRD PARADE

CH 544.13

			1 in 30	1 in 30	_	1 in 4
432.692	4 32.605	432.505	4.32.616	4.32.505	432.605	
432.473	432.474	432.475	432.477	432.484	432.486	
-7.450	-3.950	-3.350	0.000	05E.E	3.950	
	432.473	432.473	432.473 432.474 432.475	0 432.473 0 432.474 0 432.474 432.477 432.477	0 432.473 0 432.474 0 432.474 432.477 432.484	0 432.473 0 432.474 0 432.474 432.477 432.477 432.484 432.486

BUTCHERBIRD PARADE

CH 545.96

		1 in 40		1 in 30 1 in 30		1 in 40				
DATUM R.L.431.0										
DESIGN SURFACE LEVEL	432.716 432.715 432.715	32.	432.490	432.602	432.490	432.590	432.678	432.715	432.716	
EXISTING SURFACE LEVEL	432.458 432.458	32.4	432.460	432.462	432.466	432.468	432.476		432.495	
OFFSET	-9.000 -8.950		-3.350	0.000	3.350	3.950	7.450	8.950	9.000	

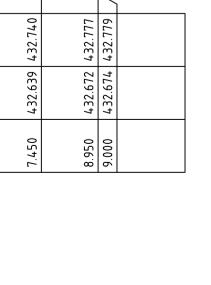
BUTCHERBIRD PARADE

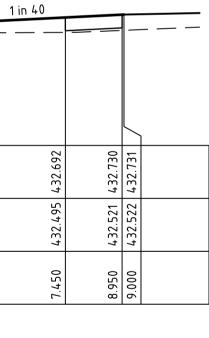
CH 558.13

			1 in 40	_	1 in 30	1 in 30	_	1 in 40		1	
											- — —
DATUM R.L.431.0											
DESIGN SURFACE LEVEL	432.615	432.614		432.389	432.500	432.389	432.489	432.576	432.614	432.615	
EXISTING SURFACE LEVEL	432.366	432.366		32	432.364	4.32.367	432.369	432.383	432.389	432.389	
OFFSET	000.6-	-8.950	לן ס	-3.350	00000	0 3 .350	3.950	7.450	8.950	9.000	

BUTCHERBIRD PARADE

		1 in 40			1 in 30 1 in 30			1 in 30	1 in 40				
									1				
DATUM R.L.431.0													
DESIGN SURFACE LEVEL	432.583	432.582	432.544	432.457	432.357	432.468		432.357	432.457	432.544	432.582	432.583	
EXISTING SURFACE LEVEL	432.352	432.352	432.347	432.337	432.335	432.336		432.349	432.352	432.366	432.372	432.372	
OFFSET	000.6-	-8.950	-7.450	-3.950	-3.350	00000		3.350	3.950	7.450	8.950	9.000	
BUTCHERBIRD PARADE						CH 5	61.96						







Designed S.WOOD	Checked
Authorised A.WILKIE	Date

BUTCHERBIRD PARADE

BUTCHERBIRD PA	ARADE			CH 577.96							
			1 in 40	₽ _	1 in 30	1 in 30	F	1 in 40			
DATUM R.L.431.0											
DESIGN SURFACE LEVEL	432.511	432.509 437.477	32.3	432.284	432.396	32	432.384	432.472	432.509	432.511	
EXISTING SURFACE LEVEL	432.319	432.319 437.319	32.	432.322	432.325	432.328	432.329	432.332	432.333	432.333	
OFFSET	000.6-	-8.950	- 3.950	-3.350	0.000	3.350	3.950	7.450	8.950	9.000	
BUTCHERBIRD PA	RADE				СН 5	70.63					

	r		1 in 40	_	1 in 30	1 in 30	-	1 in 40		1	
										1	
DATUM R.L.431.0]
DESIGN SURFACE LEVEL	432.450	432.448 432.411	432.323	432.223	432.335	432.223	432.323	432.411	432.448	432.450	
EXISTING SURFACE LEVEL	432.275	432.275 432.270	432.258	432.256	432.245	432.234	432.232	432.220	432.216	432.216	
OFFSET	000.6-	-8.950 -7.450	-3.950	-3.350	0.000	3.350	3.950	7.450	8.950	9.000	
		·				77.07		•			

BUTCHERBIRD PARADE

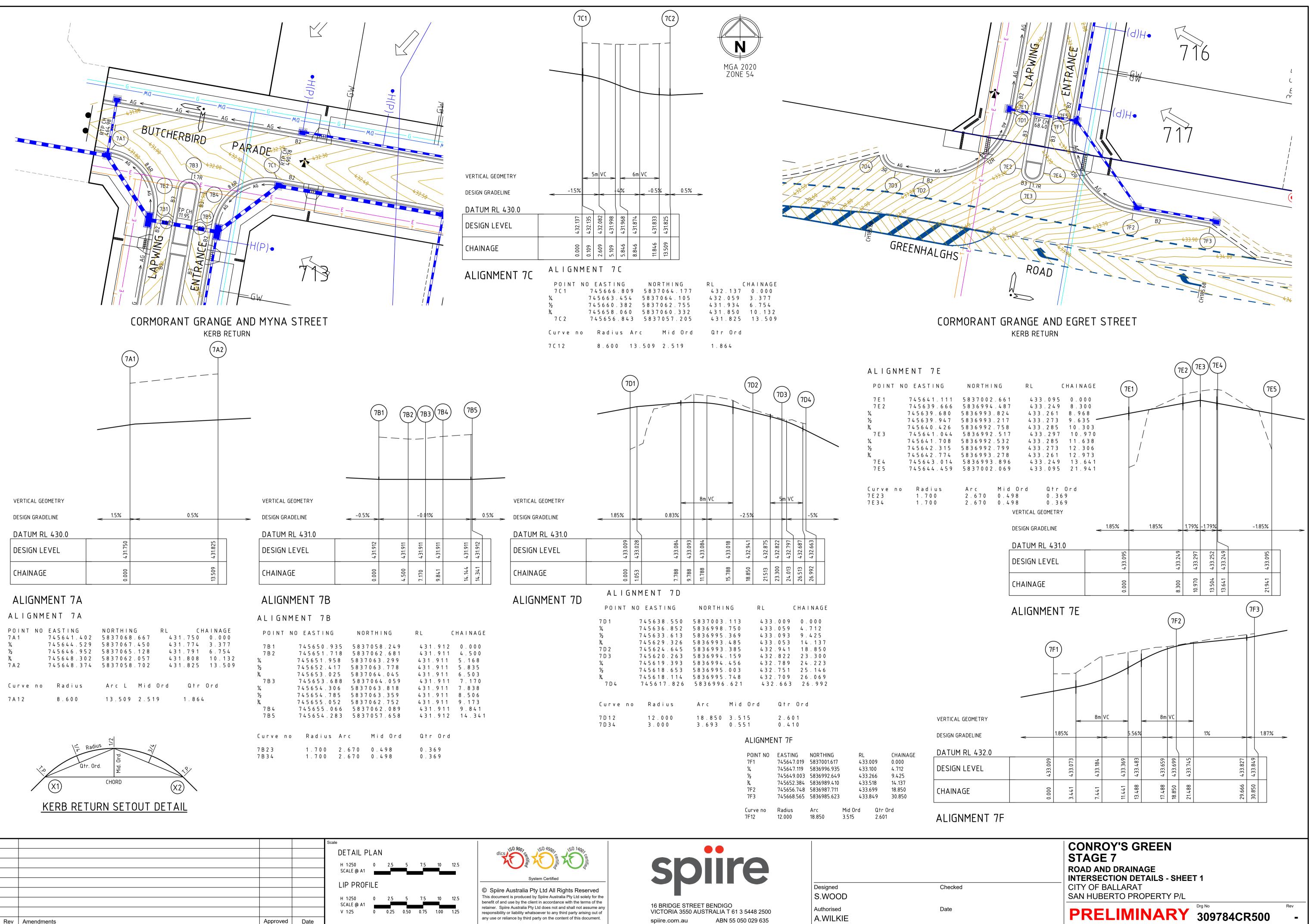
		1 in 40		1 in 40		1 in 40			1 in 30	1 in 30	,	1 in 40		
							7	⋕ – – – –						
DATUM R.L.431.0														
DESIGN SURFACE LEVEL	432.394	432.355	432.268	432.168	432.279	432.168	432.268	432.355	432.393	432.394				
EXISTING SURFACE LEVEL	4 32.193 4 32.193	432.178	432.145	432.140	432.127	432.116	432.114	432.104	432.101	432.101				
OFFSET	-9.000 - 8 95.0	-7.450	-3.950	-3.350	0.000	3.350	3.950	7.450	8.950	000.6				
	-9.6		m -		0.00	E.E.	3.9	7.4	8.9	0.6				

CH 584.63

CONROY'S GREEN STAGE 7
ROAD AND DRAINAGE ROAD CROSS SECTIONS - SHEET 5
CITY OF BALLARAT SAN HUBERTO PROPERTY P/L
PRELIMINARY 309784CR404

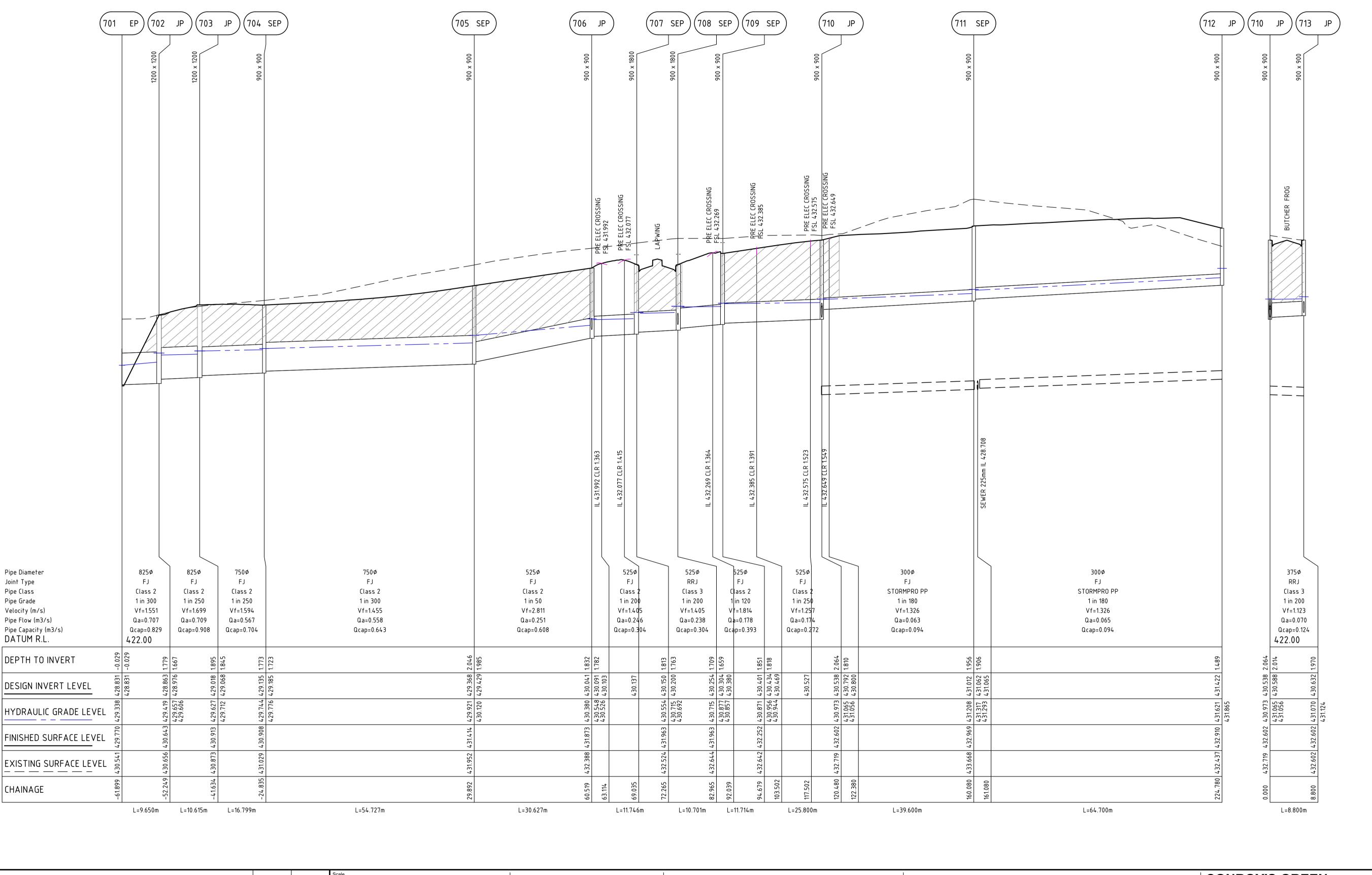
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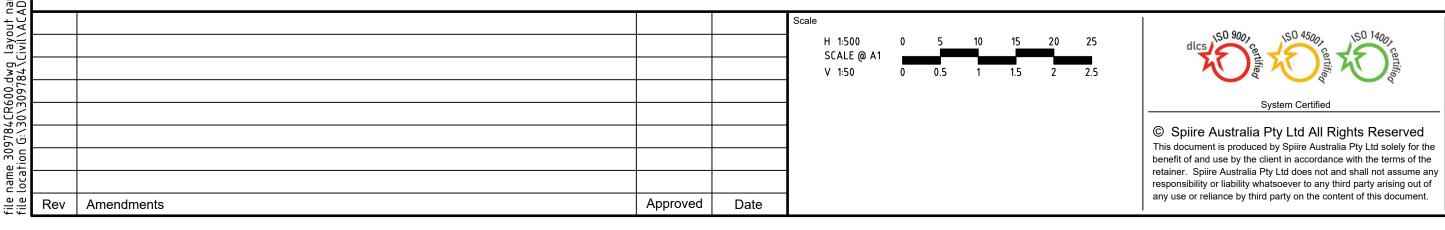
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Rev Amendments







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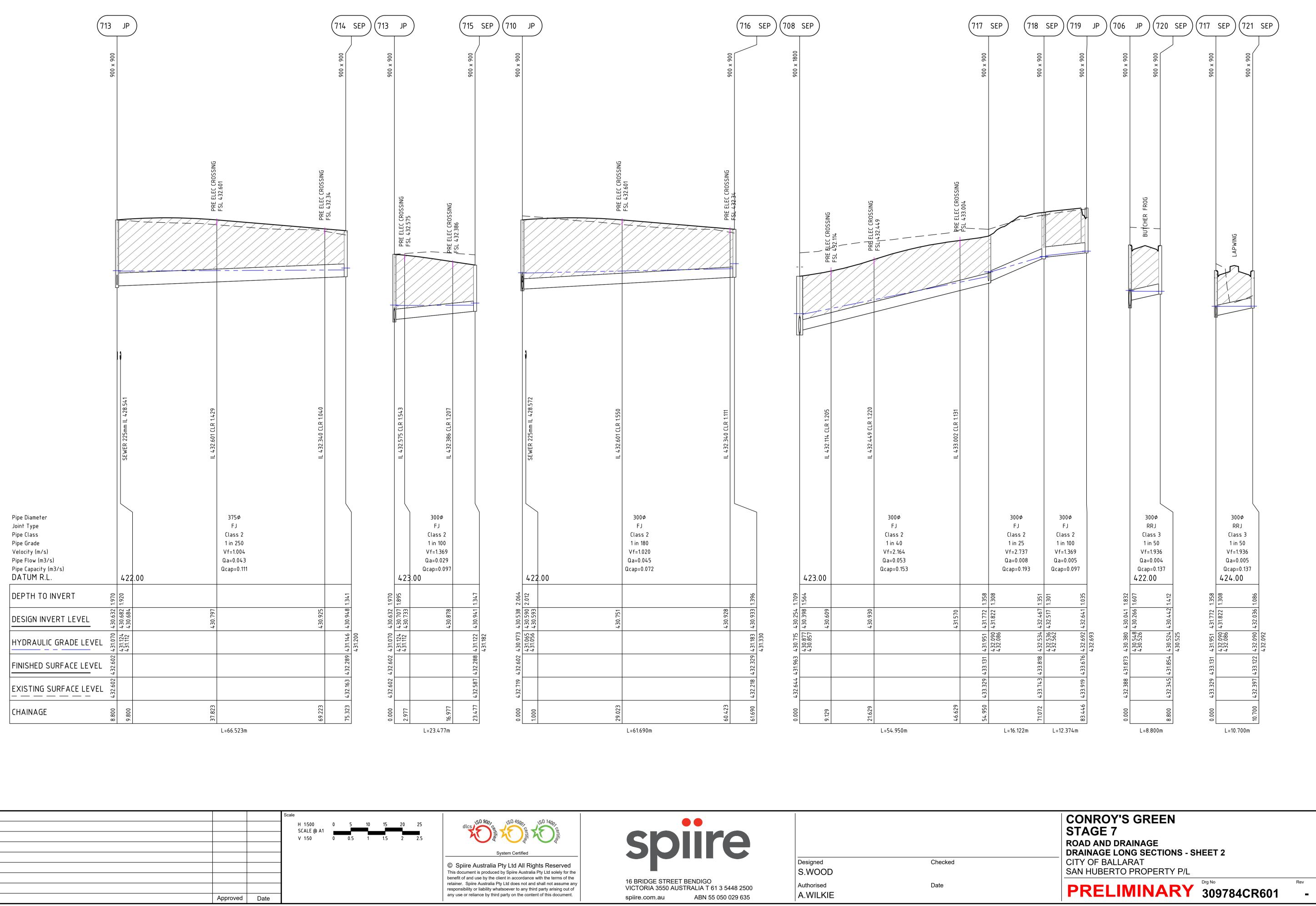
Designed
Designed S.WOOD
Authorised
A.WILKIE

Date

Checked

CONROY'S GREEN STAGE 7 ROAD AND DRAINAGE DRAINAGE LONG SECTIONS - SHEET 1 CITY OF BALLARAT SAN HUBERTO PROPERTY P/L PRELIMINARY 309784CR600 Rev

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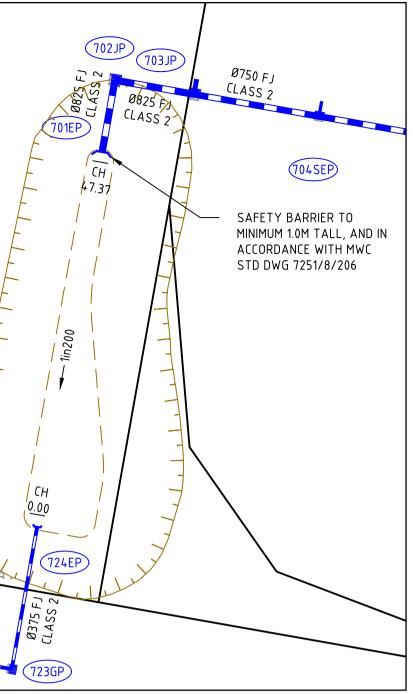




722	EP		723 GJP	724 EF	INSTALL ROCK BEACHING	
						RE PI
Pipe Diameter Joint Type Pipe Class Pipe Grade Velocity (m/s) Pipe Flow (m3/s)		375Ø FJ CLASS 2 1 in 80 Vf=1.803 Qa=0.196		375¢ FJ CLASS 2 1 in 80 Vf=1.803 Qa=0.196	DATUM R.L.428.0 DESIGN SURFACE LEVEL EXISTING SURFACE LEVEL OFFSET RETARDING BA	VIC -7.498 4.30.292 4.30.292
Pipe Capacity (m3/s) DATUM R.L. DEPTH TO INVERT DESIGN INVERT LEVEL HYDRAULIC GRADE LEVEL FINISHED SURFACE LEVEL EXISTING SURFACE LEVEL CHAINAGE		Qcap=0.199	57.254 4.29.620 4.29.620 4.28.583 4.28.261 1.358 4.28.908 4.28.908 4.28.311 1.308	Qcap=0.199 70.01 430.020 429.020 42	DATUM R.L.428.0 DESIGN SURFACE LEVEL EXISTING SURFACE LEVEL OFFSET RETARDING BA	VI22 429.990 429.990
				Scale H 1:500 0 SCALE @ A1 V 1:50 0	5 10 15 20 25 0.5 1 1.5 2 2.5	© Spi This doc benefit o retainer. responsi

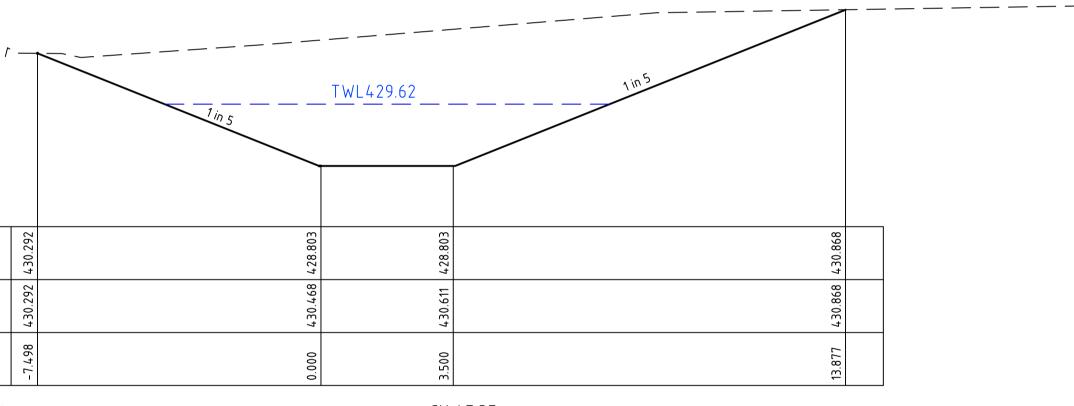
Approved Date

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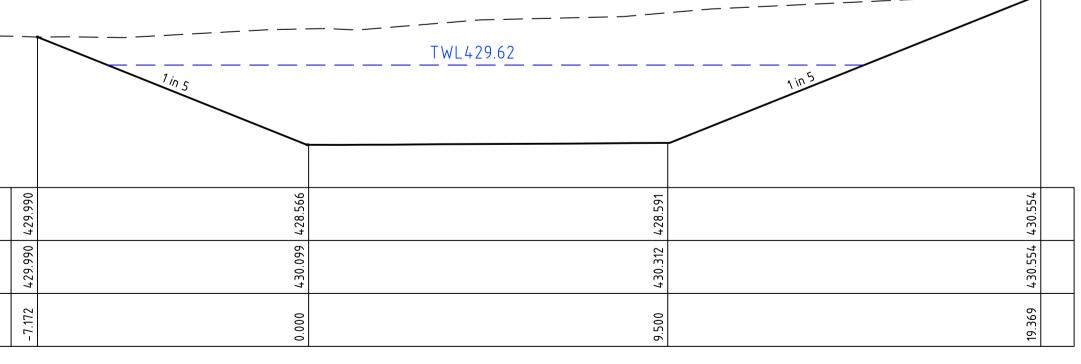


	DRAINAGE PIT SCHEDULE													
Pit				INTERNAL		INLET		OUTLET		PIT				
Name	ТҮРЕ	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS		
701	ENDPIPE	745528.037	5837077.854			825	428.831			429.77	0.939	CONCRETE ENDWALL		
702	JUNCTION PIT	745529.733	5837087.354	1.2	1.2	825	428.976	825	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	429.429	750	429.368	431.414	2.046	REFER TO COB SD-P1-2		
706	JUNCTION PIT	745640.776	5837067.712	0.9	0.9	525	430.091	525	430.041	431.873	1.832	REFER TO COB SD-P10-2		
						300	430.266							
707	SIDE ENTRY PIT	745647.158	5837057.851	0.9	1.8	525	430.2	525	430.15	431.963	1.813	REFER TO COB SD-P1-2		
708	DOUBLE SIDE ENTRY PIT	745657.695	5837055.988	0.9	1.8	525	430.304	525	430.254	431.963	1.709	REFER TO COB SD-P2-2		
						300	430.398							
709	DOUBLE SIDE ENTRY PIT	745666.979	5837063.132	0.9	0.9	525	430.434	525	430.401	432.252	1.851	REFER TO COB SD-P2-2		
710	JUNCTION PIT	745692.377	5837058.592	0.9	0.9	300	430.792	525	430.538	432.602	2.064	REFER TO COB SD-P10-2		
						375	430.588							
						300	430.59							
711	SIDE ENTRY PIT	745685.485	5837019.597	0.9	0.9	300	431.062	300	431.012	432.969	1.956			
712	JUNCTION PIT	745749.198	5837008.337	0.9	0.9			300	431.422	432.91	1.489	REFER TO COB SD-P10-2		
713	JUNCTION PIT	745693.908	5837067.258	0.9	0.9	375	430.682	375	430.632	432.602	1.97	REFER TO COB SD-P10-2		
						300	430.707							
714	SIDE ENTRY PIT	745759.416	5837055.681	0.9	0.9			375	430.948	432.289	1.341	REFER TO COB SD-P1-2		
715	SIDE ENTRY PIT	745670.789	5837071.344	0.9	0.9			300	430.941	432.288	1.347	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		5837001.877		0.9	300	431.822	300	431.772		1.358	REFER TO COB SD-P1-2		
						300	431.822							
718	SIDE ENTRY PIT	745657.373	5836988.667	0.9	0.9	300	432.517	300	432.467	433.818	1.351	REFER TO COB SD-P1-2		
												ADD SIDE INLET FACING OPEN		
719	JUNCTION PIT	745669.559	5836986.513	0.9	0.9			300	432.641	433.676	1.035	SWALE DRAIN REFER TO IDM STD DWG SD460		
720	SIDE ENTRY PIT	745642.308	5837076.377	0.9	0.9			300	430.442	431.854	1.412	REFER TO COB SD-P1-2		
721	SIDE ENTRY PIT	745637.595	5837003.739	0.9	0.9			300	432.036	433.122	1.086	REFER TO COB SD-P1-2		
722	ENDPIPE	745459.747	5837019.674			375	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	375	428.311	375	428.261	429.62	1.358	REFER TO COB SD-P6		
724	ENDPIPE	745519.442	5837028.276					375	428.55	428.55		CONCRETE HEADWALL		





CH 47.37



CH 0.00





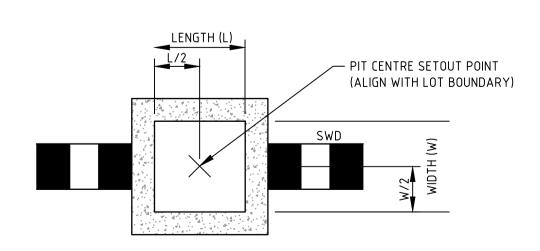
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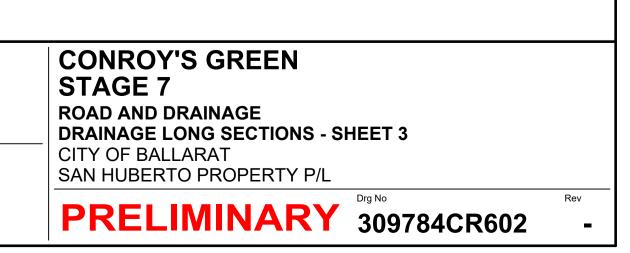
Designed S.WOOD Authorised A.WILKIE

Checked

Date



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



DESIGN PAVEMENT PROFILE

	DEPTH (mm)	DEPTH (mm)	
PAVEMENT LAYER	DESCRIPTION	TYPE A [×] (ACCESS STREET 1)	TYPE B [*] (ACCESS STREET 2)
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% (MMDD)	150	150
SUBBASE COURSE (mm)	CLASS 3 20mm or 40mm FCR. COMPACTED TO 97% (MMDD)	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 1.5%, 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

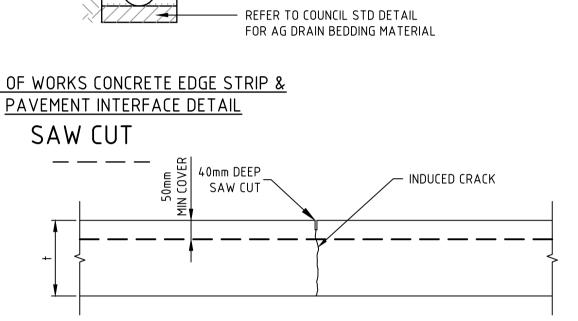
ROAD NAME	TYPE
BOWERBIRD GRANGE	А
STORK STREET	А
CORMORANT	А
GOLDFINCH ROAD	А

200mm WIDE x 300mm DEEP CONCRETE EDGE STRIP

- PAVEMENT DESIGN AS SPECIFIED

GENERAL NOTES:

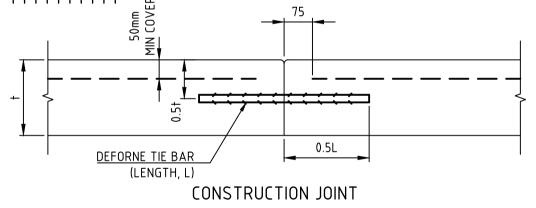
- 1. ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE; OR VIC ROADS STANDARDS FOR NON RESIDENTIAL STREETS.
- 2. ALL CONCRETE TO BE MINIMUM 32MPa COMPRESSIVE STRENGTH
- 3. CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY AROUND REINFORCEMENT LIMIT OF WORKS CONCRETE EDGE STRIP & 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.

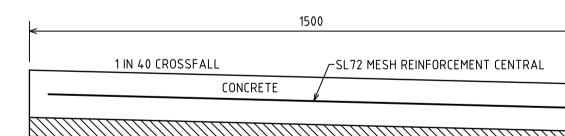


REFER TO COUNCIL STD DETAIL

FOR AG DRAIN TRENCH MATERIAL

CONSTRUCTION JOINT





FOOTPATH (NOT TO SCALE) GENERALLY AS PER COB SD-K3-2

TO 90% MODIFIED FOOTPATH TO BE 25MPa FOR RESIDENTIAL

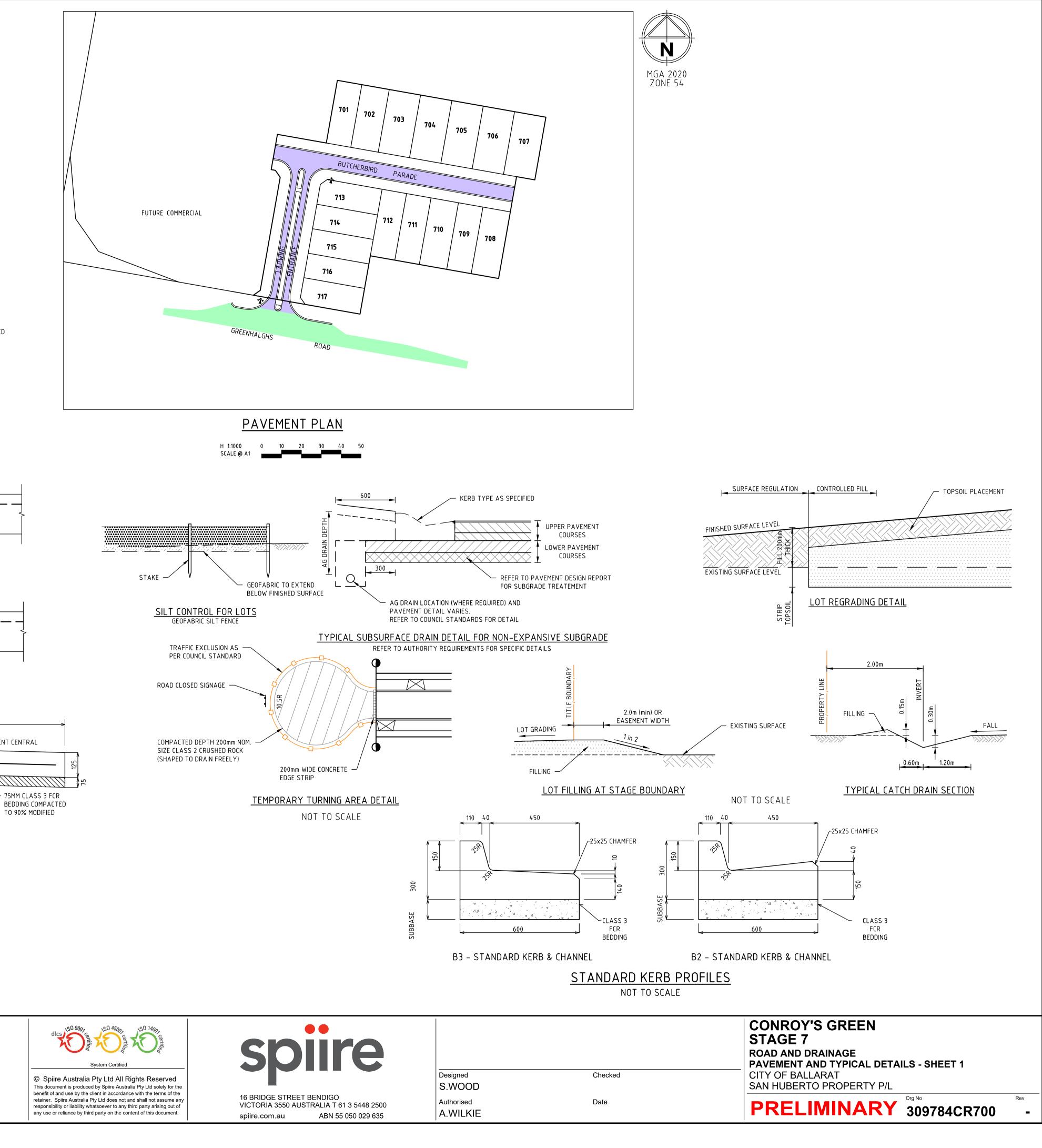
PAVEMENT DETAILS

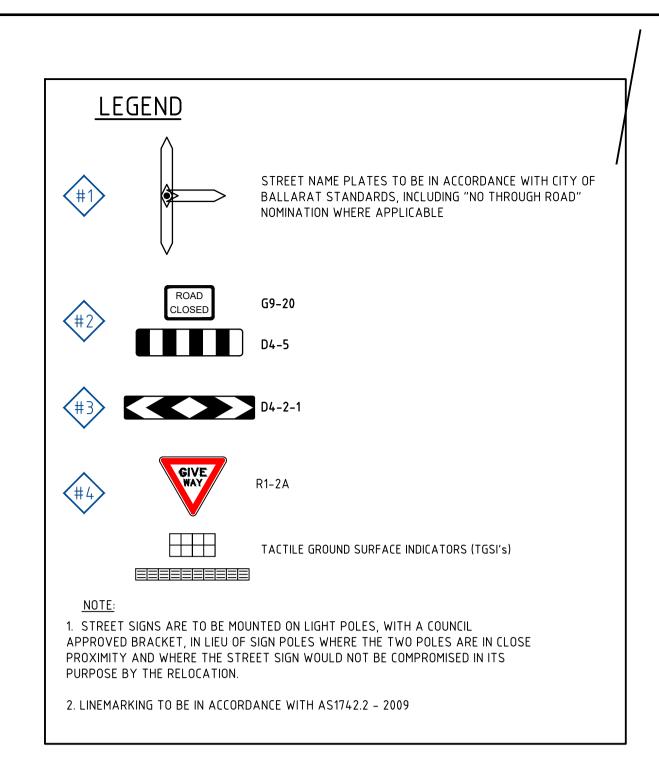
THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY GTS WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIIRE IS NOT RESPONSIBLE FOR THE WORK OF GTS .

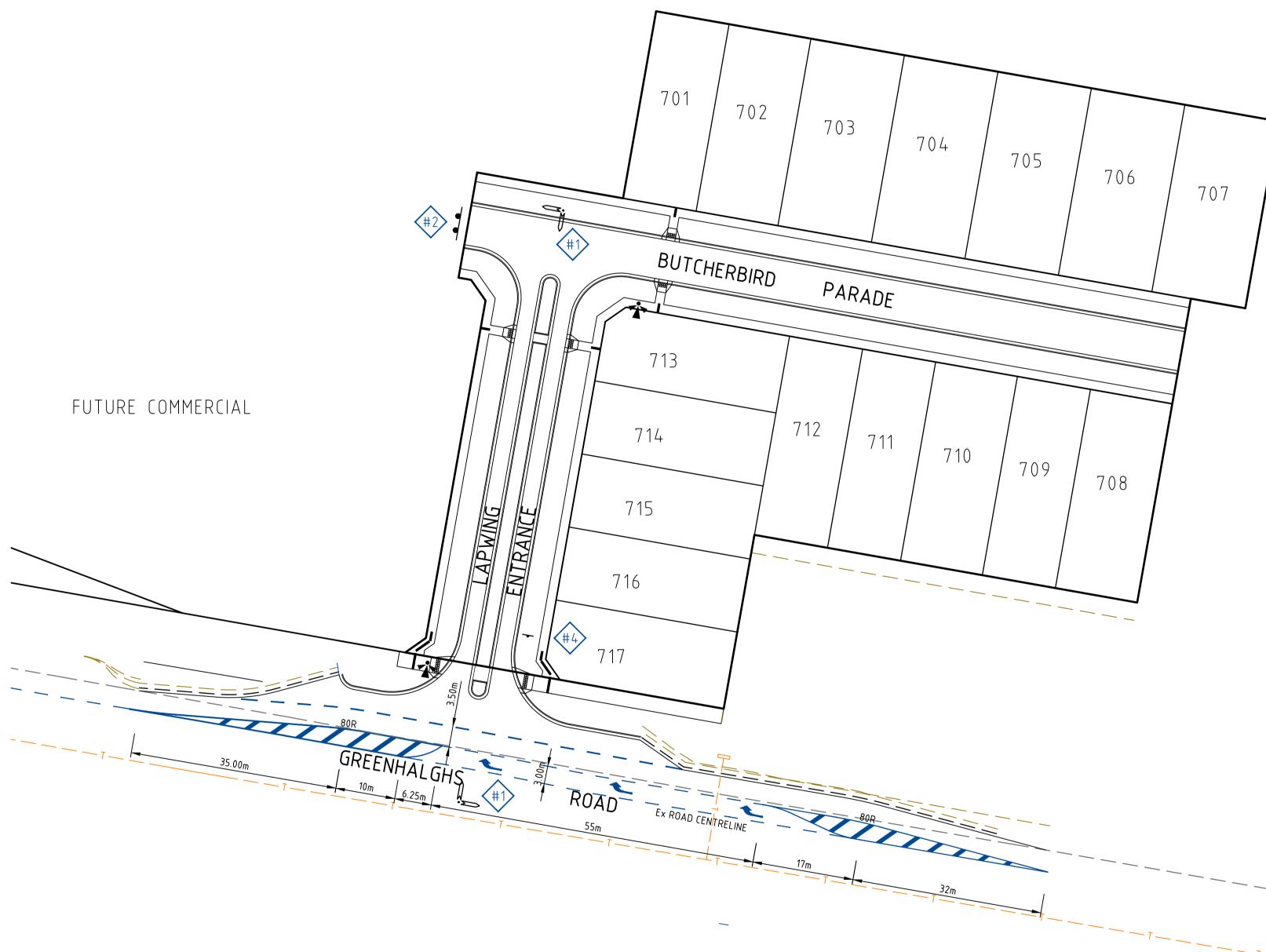
THE DESIGN HAS BEEN EXTRACTED FROM THE GTS REPORT ON "520 GREENHALGHS ROAD, WINTER VALLEY" THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED. A COPY OF THE DOCUMENT WILL BE PROVIDED TO YOU ON REQUEST.

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.

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Designed S.WOOD Authorised A.WILKIE Checked

Date





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