# **OFFICER CENTRAL STAGE 3** YOURLAND PTY LTD

## **GENERAL NOTES:**

### <u>SURVEY</u>

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) 94, ZONE 55.
- 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.
- 7. ALL EXCAVATED ROCK AND SURPLUS SPOIL TO BE REMOVED AND DISPOSED OFF SITE UNLESS NOTED OTHERWISE.
- 8. 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

LOCATION OF THE CONDUITS TO BE MARKED ON THE FACE OF KERB ON EACH SIDE OF THE ROAD WITH A 50mm HIGH LETTER (G FOR GAS, W FOR WATER, E FOR ELECTRICITY AND T FOR TELECOMMUNICATIONS).

- 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.

### STORM WATER DRAINAGE

- 20. AG/SUBSOIL DRAIN TO BE LAID BEHIND KERB WHERE REQUIRED IN ACCORDANCE WITH THE COUNCIL STANDARD DRAWINGS AND CONNECTED TO UNDERGROUND DRAINAGE.
- 21. 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

- 22. CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.3m (WHERE OUTSIDE OF SEWER) FROM THE PROPERTY LINE UNLESS SHOWN OTHERWISE.
- 23. 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>

- 24. 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.
- 25. 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.
- 26. 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

- 27. 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.
- 28. ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH AS 1742-3.
- 29. TACTILE GROUND SURFACE INDICATORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE DISABILITY DISCRIMINATION ACT AND RELEVANT COUNCIL STANDARD DRAWINGS. <u>ENVIRONMENTAL</u>
- CONTRACTOR TO PROVIDE AN ENVIRONMENTAL MANAGEMENT PLAN INCLUDING SILT AND SEDIMENT RUNOFF PROTECTION ETC. PRIOR TO THE COMMENCEMENT OF WORKS.
- 31. 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.
- 32. TREES NOT SPECIFIED FOR REMOVAL ARE TO BE PROTECTED WITH APPROPRIATE EXCLUSION FENCING PRIOR TO COMMENCEMENT OF ANY WORKS

### MISCELLANEOUS

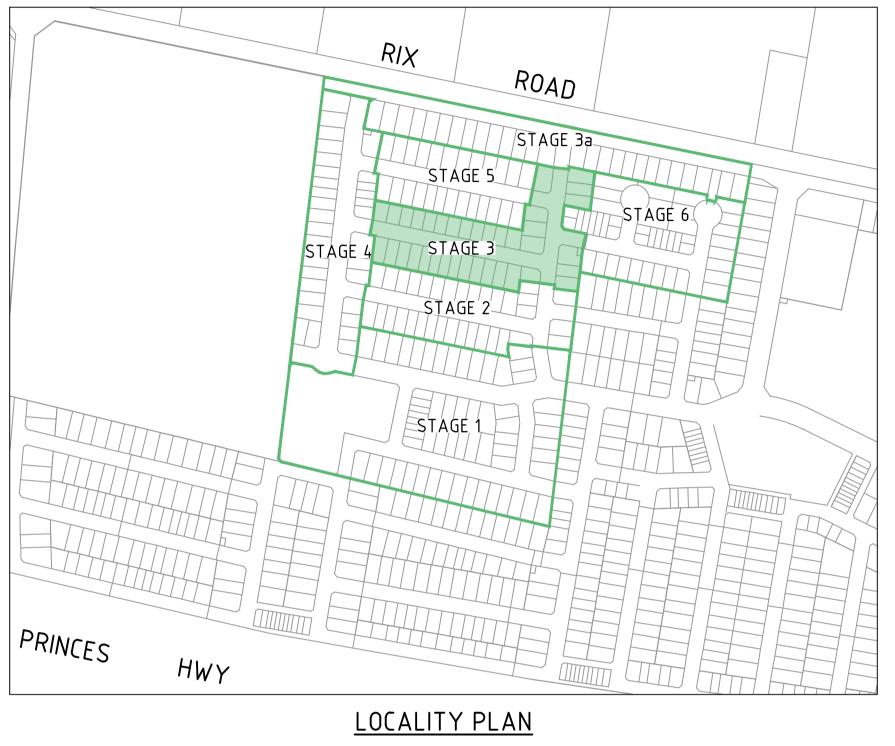
- 33. PROVIDE REFLECTIVE STREET NUMBER MARKERS ON THE KERB IN FRONT OF EACH LOT TO THE SATISFACTION OF COUNCIL.
- 34. UPON COMPLETION OF THE CIVIL WORKS, THE CONTRACTOR SHALL PROVIDE AS CONSTRUCTED PLANS IN AUTOCAD, D-SPEC AND R-SPEC DIGITAL FORMAT TO COUNCIL'S REQUIREMENTS AND TO THE SATISFACTION OF ALL PARTIES.
- 35. HOUSE DRAIN LOCATIONS ARE TO BE STAMPED ON THE KERB FACE IN ACCORDANCE WITH VPA EDCM303
- 36. CONTRACTOR TO REFER TO AND COMPLY WITH CHMP / F&F REPORTS PROVIDED IN CONTRACT DOCUMENTS



## 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.

				Scale
4	DRAWINGS CR200-202 & CR603 REVISED	B.W	04/03/22	
	DRAWINGS CR201 & CR403 REVISED	B.W	31/01/22	
3 2 1 0 B	REVISED SHEETS CR200-202 & 402	B.W	14/01/22	
1	DRAWING CR701 ADJUSTED TO COUNCIL COMMENTS	B.W	11/01/22	
0	ISSUED FOR CONSTRUCTION	T.Z	22/11/21	
В	ISSUED FOR APPROVAL	B.W	11/11/21	
A	PRELIMINARY ISSUE	S.M	08/09/21	
Rev	Amendments	Approved	Date	



## DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
CR100	GENERAL NOTES	1	3
CR200	ROAD LAYOUT PLANS - FACE PLAN	2	2
CR201	ROAD LAYOUT PLANS – SERVICES PLAN	3	3
CR202	ROAD LAYOUT PLANS – EARTHWORKS PLAN	4	2
CR300	ROAD LONG SECTIONS - SHEET 1	5	0
CR301	ROAD LONG SECTIONS - SHEET 2	6	0
CR400	ROAD CROSS SECTIONS - SHEET 1	7	0
CR401	ROAD CROSS SECTIONS - SHEET 2	8	0
CR402	ROAD CROSS SECTIONS - SHEET 3	9	1
CR403	ROAD CROSS SECTIONS - TYPICAL SECTIONS	10	1
CR500	INTERSECTION DETAILS	11	0
CR600	DRAINAGE LONG SECTIONS - SHEET 1	12	0
CR601	DRAINAGE LONG SECTIONS - SHEET 2	13	0
CR602	DRAINAGE LONG SECTIONS - SHEET 3	14	0
CR603	DRAINAGE LONG SECTIONS - PIT SCHEDULE	15	1
CR700	PAVEMENT AND TYPICAL DETAILS – SHEET 1	16	0
CR701	PAVEMENT AND TYPICAL DETAILS – RAISED PAVEMENT	17	1
CR800	SIGNAGE AND LINEMARKING	18	0



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L6 414 LA TROBE STREET PO BOX 16084 MELBOURNE VICTORIA 8007 AUSTRALIA T 61 3 9993 7888 ABN 55 050 029 635 spiire.com.au

Designed M. WRIGHT Authorised B. WAREHAM Checked B. IBBS Date 04/03/22 DESCRIPTION WATE WAT UNDE OVE TELE 0PT OVE GAS BRA SEWE SEWE CENT COUN STOF COU HOL AG D MWC MWC STOF GAS CON RIDG SHE SUE SHE BAT RET EAR SIG LIGE STR PFR BOI ROA LOT SETC LIMI ΒΑΤ EXCA FILLI ROCK RET FENCE FENCE FENCE GUAF TREE TREE TREE

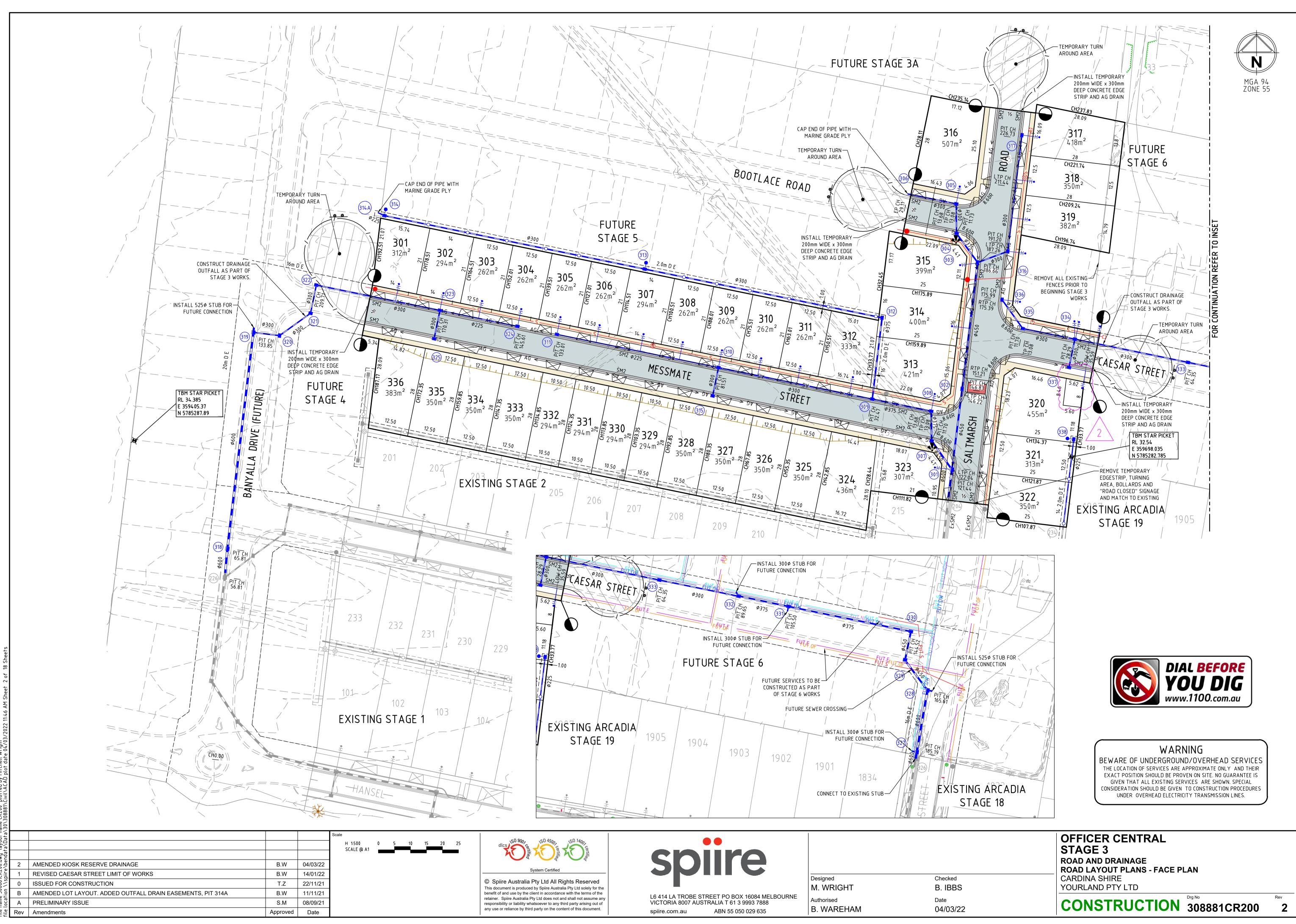
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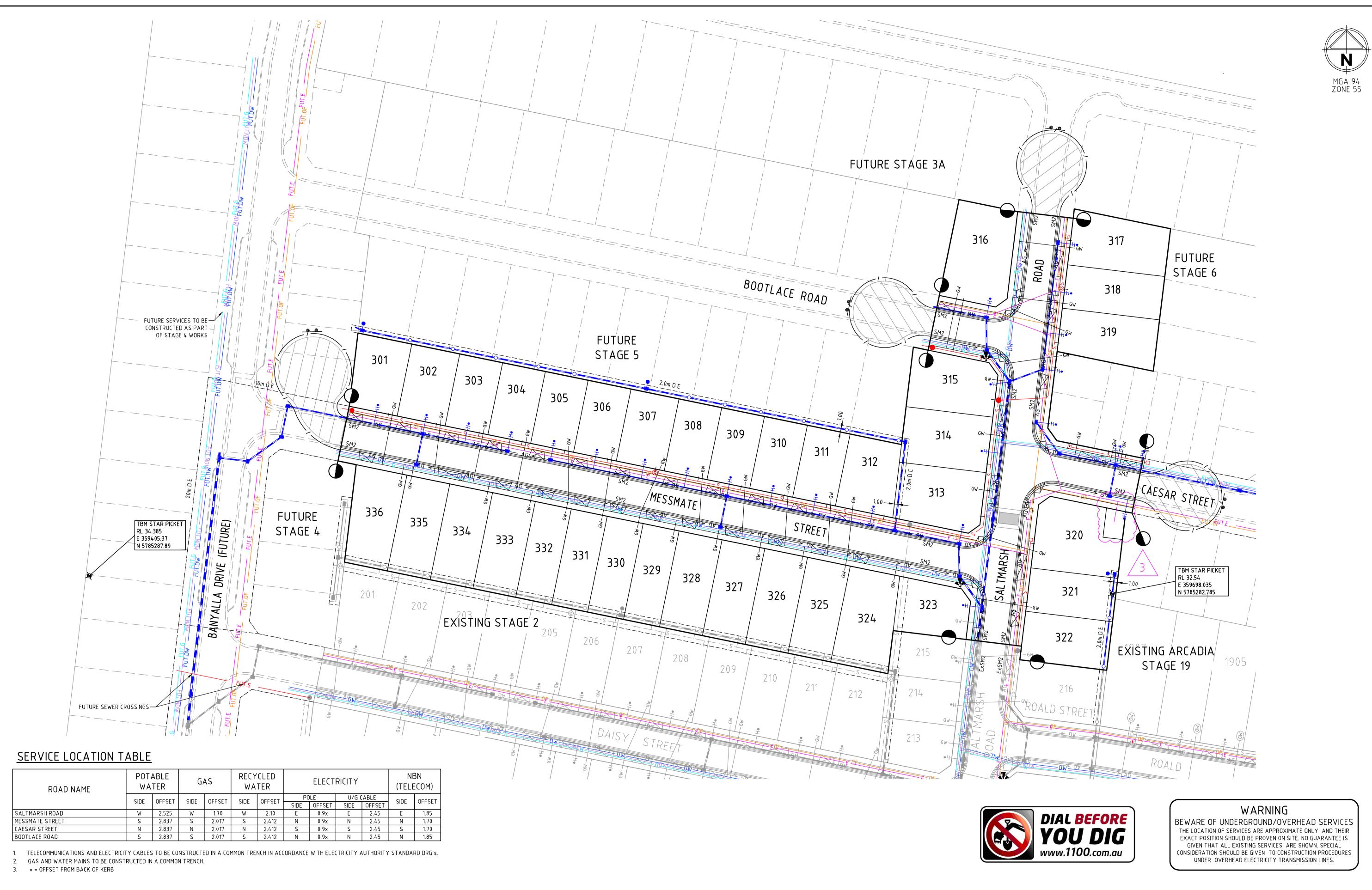
MGA 94

ZONE 55

## LEGEND

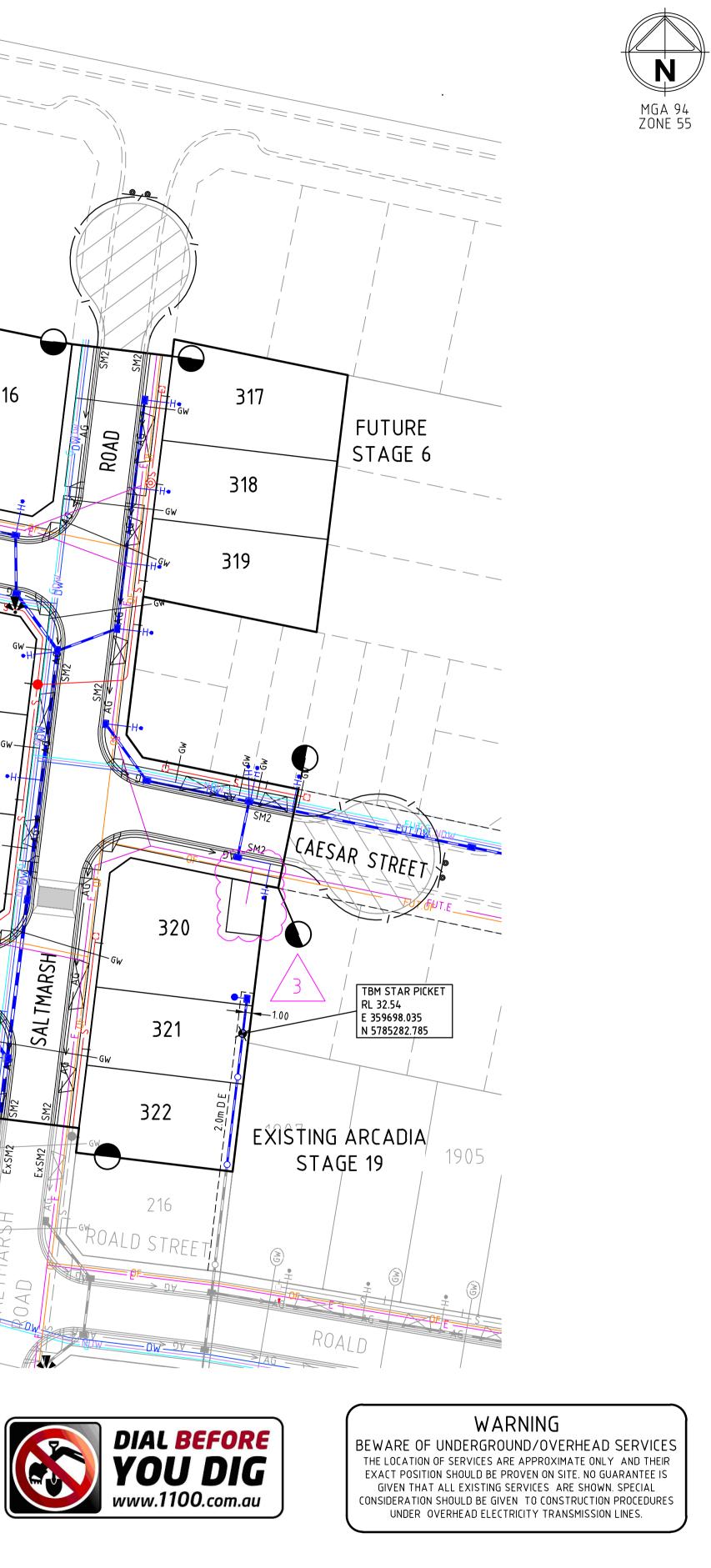
DESCRIPTION	EXISTING	PROPOSED	
WATER MAIN, VALVE AND HYDRANT	— — — DW — — —	DW	
WATER RECYCLED	— — — NDW — — —	NDW	
UNDERGROUND ELECTRICITY	_	———— E ————	
OVERHEAD ELECTRICITY & POLE		OE	
TELECOMMUNICATIONS & SERVICE PIT			
OPTIC FIBRE OVERHEAD TELECOMMUNICATIONS	— — — OF — — — — — — — — — — — — — — — —	OF	
GAS MAIN		G	
BRANCH SEWER & MAINTENANCE STRUCTURE	<b>— — § — • –</b>		
SEWER & MAINTENANCE STRUCTURE	— — _ S — - <b>O</b> —		
SEWER RISING MAIN	— — — SRM — — —		
CENTRAL INVERT	> > _	>>	
COUNCIL STORMWATER DRAIN AND PIT			
STORM WATER DRAINAGE PROPERTY INLETS			
COUNCIL STORM WATER PITS			
HOUSE DRAIN	•H	•#	
AG DRAIN AND FLUSHER	> AG	→ AG — ●	
MWC STORM WATER DRAIN & PIT MWC STORM WATER PITS			
STORM WATER DRAINAGE PIT NUMBER	(Ex.47)		
GAS & WATER CONDUITS	GW	GW	
CONCRETE VEHICLE CROSSING			
RIDGE / CHANGE OF GRADE LINE	· · · ·	· · · ·	
SURFACE CONTOUR MINOR			
SURFACE CONTOUR MAJOR	— — - 168.90 - — —		
SURFACE LEVEL	E123.45	F124.68	
BATTER LEVEL (TOP / TOE) RETAINING WALL LEVEL (TOP/BOTTOM)	T124.80 TW112.76	T124.80 TW128.50 BW126.74	
EARTHWORKS GRADE	1 W 112.7 U	1 in 150	
SIGN AND POST			
LIGHT & POLE (BY OTHERS)	$\sim \rightarrow \sim$	$\sim \rightarrow$	
STREET SIGN	° >	• <b>&gt;</b> _	
PERMANENT SURVEY MARK	<b>.</b>	<b>.</b>	
TEMPORARY BENCH MARK		$\underline{\wedge}$	
BOLLARD	+	<b>+</b>	
ROAD CHAINAGES	CH1 <u>16</u> .57 (L/ <u>R</u> )TP CH116.57	CH1 <u>16</u> .57 (L/ <u>R</u> )TP CH116.57	
LOT CHAINAGES	CH20.06	CH20.06	
SETOUT POINT		A2	
LIMIT OF WORKS			
BATTER			
EXCAVATION GREATER THAN 0.20m			
FILLING GREATER THAN 0.20m			
HEERING GREATER THAN 0.2011			
ROCK BEACHING			
RETAINING WALL			
FENCE – TREE PROTECTION	<del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>	<del>-                                    </del>	
FENCE – VEHICLE EXCLUSION		<u>0</u>	
FENCES	/ / /	/ / /	
	000	<u> </u>	
GUARD RAIL			
TREE (& SURVEYED CANOPY) TO BE RETAINED			
	A DAY		
TREE TO BE PROTECTED			
TREE TO BE REMOVED	$\langle \cdot \rangle$		
VEGETATION LINE	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
FOOTPATH			
TACTILE GROUND SURFACE INDICATOR			
KERB TRANSITION		B2 SM2	
ROAD ANI GENERAL	D DRAINAGE		
CARDINA			
	D PTY LTD		
	STRUCTION		Rev
		308881CR100	4





ROAD NAME		ABLE TER	G	۹S		'CLED TER		ELECT	RICITY			3N ECOM)
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET		DLE	U/G (	CABLE	SIDE	OFFSET
	SIDE	UFFSET	SIDL	OFFSET	SIDL	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET
SALTMARSH ROAD	W	2.525	W	1.70	W	2.10	E	0.9x	E	2.45	E	1.85
MESSMATE STREET	S	2.837	S	2.017	S	2.412	Ν	0.9x	Ν	2.45	Ν	1.70
CAESAR STREET	N	2.837	Ν	2.017	Ν	2.412	S	0.9x	S	2.45	S	1.70
BOOTLACE ROAD	S	2.837	S	2.017	S	2.412	Ν	0.9x	Ν	2.45	Ν	1.85

				Scale
				H 1:500 0 5 10 15 20 25 SCALE @ A1
3 2 1 0 B	AMENDED KIOSK RESERVE DRAINAGE	B.W	04/03/22	
2	SERVICE OFFSETS REVISED	B.W	31/01/22	
1	REVISED CAESAR STREET LIMIT OF WORKS	B.W	14/01/22	
0	ISSUED FOR CONSTRUCTION	T.Z	22/11/21	
В	AMENDED LOT LAYOUT	B.W	11/11/21	
A	PRELIMINARY ISSUE	S.M	08/09/21	
Rev	Amendments	Approved	Date	





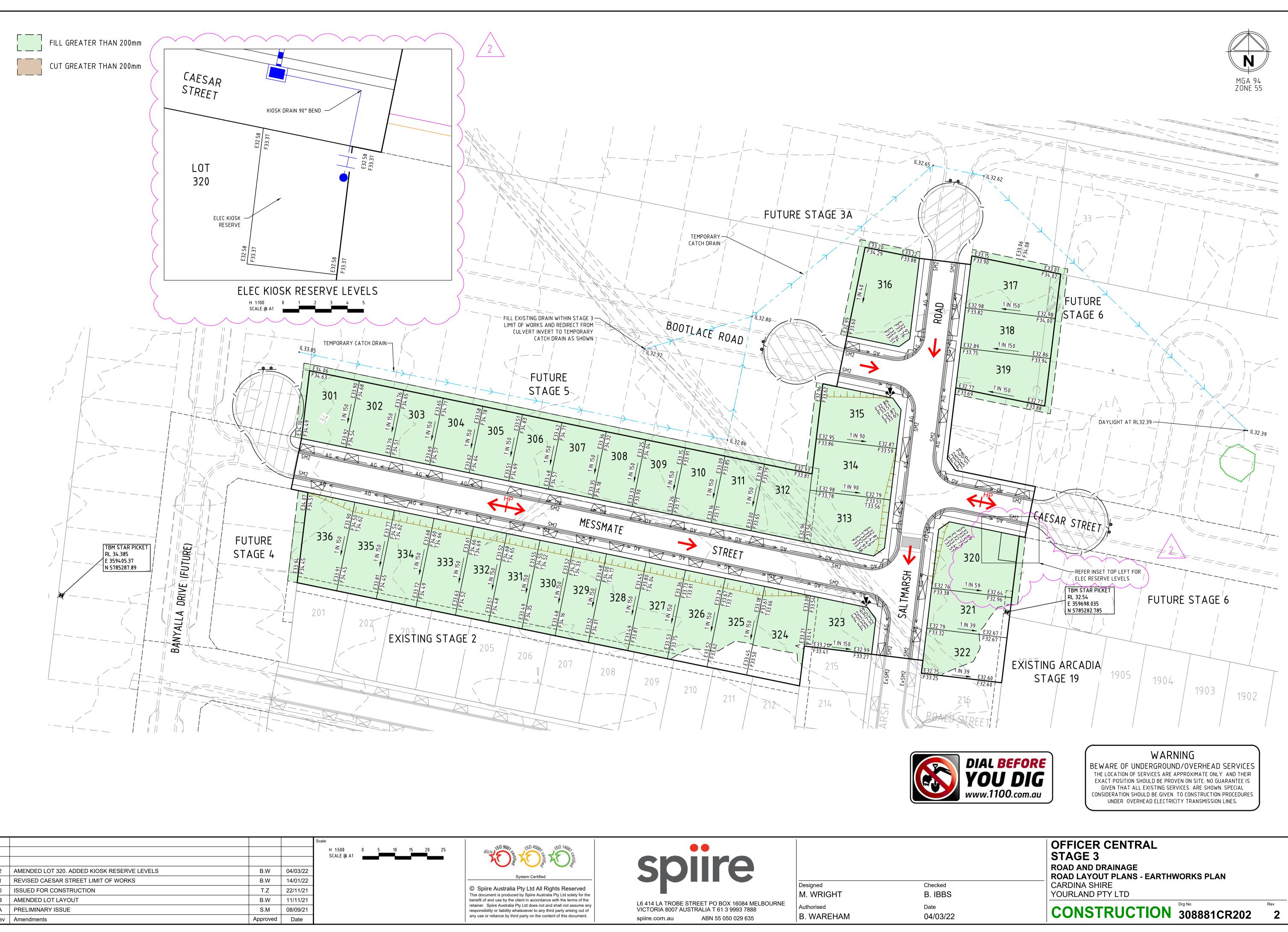
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Designed M. WRIGHT Authorised B. WAREHAM





ut na ita/i					Scale	
layout ta/Data					H 1:500 0 5 10 15 20 25 SCALE @ A1	
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00.dwg >\bendat	2	AMENDED LOT 320. ADDED KIOSK RESERVE LEVELS	B.W	04/03/22		
CR2 Diire	1	REVISED CAESAR STREET LIMIT OF WORKS	B.W	14/01/22	-	
308881 on \\s	0	ISSUED FOR CONSTRUCTION	T.Z	22/11/21		© This
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				Scale								
					H 1:500	0	5	10	15	20	25	
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				-								

## MESSMATE STREET

			EXISTING STAGE 2	LIMIT OF WORKS	STAGE 3 MES REFER TO I	SMATE STR		CAESAR REFER TO INTERS				LACE ROAD ERSECTION DETAIL		STAGE 3	LIMIT OF	ST#	URE AGE 3A		
	-0.50%							0,50%								<	25.00m VC	-1.50%	3 3 3 %
DESIGN GRADELINE	>	<																	
DESIGN CENTRELINE	32.874	32.915	33.015	33.074 33.079	33.115 33.122 33.124 33.125	33.186	33.215 33.246 33.249 33.271	33.314 33.315	33.392	33.394 33.395 33.415 33.448	33.451	33.515 33.515 33.561 33.561	33.615 33.615	33.623	<b>33.690</b>	33.704 33.712 33.717 33.717	33.701 33.682 33.658	2100	33.419 33.489
LEFT DESIGN LIP OF KERB		32.800	32.900 32.939	32.959 32.964	33.000 33.007 33.009 33.010		33.134 33.156	33.199 33.200	33.277	33.279 33.280 33.300 33.333			33.500	33.508 33.538	<b>33.575</b> 33.586	33.588 33.597 33.602	33.586 33.567 33.567		33.304
RIGHT DESIGN LIP OF KERB			32.900	32.959 32.964	33.000 33.007 33.009 33.010 33.010	33.071	33.100 33.131 33.134 33.156		33.277	33.279 33.280 33.300 33.333		33.400 33.446 33.446	33.500	33.508 33.538	<b>33.575</b>	33.588 33.597 33.602	33.586 33.567 33.567		33.304
EX SURFACE LEFT BOUNDARY		33.423	33.146	88 74	32.866 3 32.831 3 32.797 3 32.784 3		32.874 3 32.873 3 32.855 3	8888			32.870	32.963 3			<b>216</b> 228	33.236 33.242 33.241 33.241	269 298 307	281 281 252 252	
EX SURFACE RIGHT BOUNDARY	33.232		33.003 32.750	32.569 32.574	32.820 32.790 32.787 32.787	32.761	32.759 32.742 32.738 32.728		32.793	32.796 32.796 32.795 32.795	32.775	32.756 32.892 32.411	32.970 32.070	32.984 33.053	<b>33.144</b>	33.153 33.136 33.135	33.164 33.172 33.160	ni milmil	
CHAINAGE 728719	71.819	80.000	100.000	111.824 112.824	120.000 121.443 121.869 122.043		140.000 146.225 146.825 151.205				264	200.000 209.238 209.238			<b>235.143</b>	237.830 24.0.000 24.3.598	9.848 2.960 5.710	34.8	272.84.9
SALTMARSH ROAD																			
																STAG		SYNON	
	SALTMARSH F TO INTERSECT																		
VERTICAL GEOMETRY	<	15.00m VC					<	23.68m VC	~~~	23.68m VC									
	-3.28% 3.005	<u>%</u>		0.50%				0%	3.19%			-0.50%			0.6	5%		-0.50%	>
DATUM RL 30.5	067 160	22	29 77	567	.591 .614 .629 .654	92	2322	27	183	87	38 55 49	.580 .556 .554 .526 .517	494	31	402	455 465 467	433 406	69	20 69
DESIGN CENTRELINE	33.06	33.292   33.320   33.331   33.331   33.331   33.331   33.331   33.331   33.331   33.331   33.331   33.331   33.331   33.331   33.331   33.331   33.347   33.472   33.457		<u> </u>		33.692	33.714   33.716   33.720   33.722   33.729	33.33 34 34			34.610   34.610   34.610   34.610   34.602   34.589   4   34.589			0 34.454 34.454 34.431	34,	34. 34.	34, 34,	34.3	34.26
LEFT DESIGN LIP OF KERB		33.205 33.205 33.215 33.297 33.297 33.307 33.342	33.362 33.368 33.368 33.399 33.414	33.452	33.476 33.499 33.514 33.539	33.577	33.599 33.601 33.607 33.614 33.614	33.840 33.842 33.973 33.973	34 34 34 34	34 34 34 34	34.495 34.495 34.474 34.474	34 34 34 34 34 34 34		34.319 34.316 34.316	34.287 34.300	34.340 34.350 34.352 34.352	34.318 34.291	34.254	
RIGHT DESIGN LIP OF KERB		33.205 33.215 33.215 33.227 33.297 33.307 33.342	33.362 33.368 33.399 33.414		33.476 33.499 33.514 33.539	33.577	33.599 33.601 33.607 33.614 33.614	33.842 33.842 33.842 33.973 33.988	34.070 34.169 34.355	34.370 34.433 34.456 34.487	34.495 34.495 34.487 34.474 34.474	34.402 34.441 34.439 34.411 34.402	34.379 34.340	34.316 34.339 34.316	34.287 34.300	34.340 34.350 34.352	34.318 34.291	34.254	
EX SURFACE LEFT BOUNDARY		32.757 32.852 32.887 32.902 33.029 33.038 33.038 33.080	33.083 33.084 33.143 33.141 33.181	27	33.289 33.314 33.330 33.360	33.414	33.454 33.454 33.454 33.457 33.461	33.479 33.481 33.481 33.510 33.510	33.525 33.539 33.547	33.547 33.545 33.541 33.518	33.552 33.553 33.578 33.599 33.599	33.614 33.653 33.657 33.677 33.683	33.699 33.766	33.767 33.809	33.867 33.901	33.976 33.993 33.996	34.065 34.110	34.161	34.206
EX SURFACE RIGHT BOUNDARY		32.908 32.931 32.940 32.999 32.999 33.032 32.755	32.828 32.960 32.936 32.936	33.003	33.050 33.117 33.161 33.205		33.284 33.286 33.292 33.292 33.300	363 363 383 383 356 356 353			33.514 33.514 33.541 33.564 33.564		33.691 33.737	33.788 33.788 33.788	33.858 33.872	33.916 33.933 33.938	34.047 34.105	34.186	34.228
		11.698 13.084 13.084 14.061 20.000 21.561 28.439			55.348 60.000 63.010 67.848	75.510	80.000 80.348 81.510 82.962				127.010 127.104 130.314 133.010			160.000 164.510	314	178.510 180.000 180.314		0	

						EXIST STAG		LIMIT OF WORKS			ESSMATE 0 INTERSE			REF	CAI FER TO IN		TREET CTION DE	TAILS		F			ACE ROA	AD IN DETAIL	_S 	ST	AGE 3	LIMIT OF	RKS -	FUTU STAG	IRE SE 3A			
																		_																
VERTICAL GEOMETRY																													~	2	25.00m VC	-		
DESIGN GRADELINE		0.50% >	<												0	.50%															~		1.50%	3.3
DATUM RL 30.5	_																	Ļ																
DESIGN CENTRELINE	32.924	32.874	32.915			33.015	33.054	33.074 33.079	33.115 33.122	33.124 33.125 33.125	33.186	33.215	33.246	33.249 33.271	33.314	33.315		33.392 33.394	33.395 33.415	33.448	33.451	33.498	33.515	33.561	2/ 6.88	33.615 33.623	33.653	33.690		33.712 33.717	33.701 33.682	60	3.57	33.419
LEFT DESIGN LIP OF KERB	-		32.800			32.900	32.939	32.959 32.964	33.000	33.010 33.010				33.134 33.156		33.200			33.280							33.500 33.508	33.538	33.575	33.586 33.588 33.588	33.597	33.586	33.543 33.494	33.461	33.304
RIGHT DESIGN LIP OF KERB	32.809					32.900	32.939	32.959 32.964		33.010 33.010	33.071	33.100		33.134					33.280		33.336	33.383	33.400	33.446	1 C 4 . C 5	33.500 33.508	33.538	33.575	586 588 588	3.597 3.602	33.586	543	3.461	33.304
EX SURFACE LEFT BOUNDARY	-		3.423			33.14.6	33.030	32.988 3		32.784				32.855	\$2.788	32.786			32.870 3					32.963 3		33.052 3 33.074 3	33.154 3				33.269 3	81 07	33.252 3	
EX SURFACE RIGHT BOUNDARY	3.249	3.232				3.003	2.750 3	32.569 3	820	32.787 3	32.761	32.759		32.728					32.796 3			32.775	2.756	32.892 3	116	32.970 3	3.053	33.14.4	157 153	3.136	3.164 3.172	3.160 3.146	3.153	
CHAINAGE	1.824 3	1.819 3	0.000			100.000 3	07.869 3	111.824 3   112.824 3		121.869 3 122.043 3	134.369 3	14.0.000 3		151.205 3	59.888	160.000			175.986 3 180.000 3				000	209.238 3		220.000 3 221.738 3	227.739 3	235.14.3 3	348 830	40.000 3	249.848 3 252.960 3	710 000	262.34.8 3	272.849
																					+-+							-	S	TAGE	3 IMI -	-là -	FUTUR STAGE	
RE		MARSH F	ROAD ON DETAILS																	~														
VERTICAL GEOMETRY		<	15.00m VC	>									-	:	23.68m V	c 📗	><	2	23.68m	vc	>													
DESIGN GRADELINE	-3.28	3.00	% <b>}</b> ~				0	).50%	_					1.50%			3.19%		~~		+			-0.50%				-><	0.65%		_		-0.50%	
DATUM RL 30.5	_													$\rightarrow$		$\square$							$\downarrow \vdash$					-+				_		
DESIGN CENTRELINE	<b>3</b> 3.180 33.067	33.160	33.320 33.320 33.331 33.338	33.412 33.422	33.457 33.477 33.483	33.514	33.529	33.567	33.591 33.614	33.629	33.654	33.692 33.714	33.716 33.722 33.722	33.729 33.814	33.912 33.957	34.088 34.102	34.183 34.284	34.473	34.552	34.604	34.610 34.610 34.602	34.589 34.580 34.580	34.556 34.554	34.526 34.517	34.494	34.455 34.455	34.431	34.402 34.415	34.455		34.433 34.106		34.369	34.320
LEFT DESIGN LIP OF KERB	-		33.205 33.215 33.222	33.297 33.307	33.342 33.362 33.368	33.399	33.414	33.452	33.476 33.499	33.514	33.539	33.577 33.599	33.601 33.607	33.614 33.701	33.842	33.973 33.988	34.070 34.169	34.355 34.355	34.433	34.487	34.495 34.495 37.7.87	34.465 34.465	34.441 34.439	34.411 34.402	34.379	075.75 075.75	34.316	34.287 34.300	34.340		34.318 34.318		34.254	
RIGHT DESIGN LIP OF KERB	-		33.205 33.215 33.222	33.297 33.307	33.342 33.362 33.368	33.399	33.414	33.452	33.476 33.499	33.514	33.539	33.577 33.599	33.601 33.607	33.614 33.701	33.800 33.842	33.973 33.988	34.070 34.169						34.441 34.439		34.379	075.240		34.287 34.300	34.340		34.318		34.254	
EX SURFACE LEFT BOUNDARY	-		32.852 32.852 32.887 32.902		33.080 33.083 33.084	33.143	33.181	33.274	33.289 33.314	33.330	33.360		33.454 33.457			33.510 33.512	33.525 33.539						33.653 33.657		33.699	33.766 33.767		33.867 33.901	33.976	33.993 33.996	34.065		34.161	34.206
EX SURFACE RIGHT BOUNDARY			908 931 940 946		755 828 960	936	947	503	050 117	161	205	255 284		300 325		356 353	360 373						621 624		591	737 739		858 872	916	933	047 105		186	228







L6 414 LA TROBE STREET PO BOX 16084 MELBOURNE VICTORIA 8007 AUSTRALIA T 61 3 9993 7888 ABN 55 050 029 635 spiire.com.au

Designed M. WRIGHT Authorised B. WAREHAM

Checked B. IBBS Date 04/03/22





## OFFICER CENTRAL STAGE 3 ROAD AND DRAINAGE ROAD LONG SECTIONS - SHEET 1 CARDINA SHIRE YOURLAND PTY LTD

REFE	SALTMAF R TO INTERS	RSH ROAD SECTION DETAILS	LIMIT OF	s 													
RTICAL GEOMETRY SIGN GRADELINE	-3.28%			0.50%		<	30.94m VC	2.34%	30.94m VC	>	-0.50%		0	50%	-0.50%	0.50	0%
ATUM RL 30.5																	
ESIGN CENTRELINE	33.506 33.393	33.434 33.441 33.444 33.475	33.516	33.538 33.538 33.575	33.675	33.718	33.909	34.312 34.326	34.564	34.611 34.597	34.549	6449 Foc. 10	176.40	764.497	644.4	34.397	34.45
EFT DESIGN LIP OF KERB		33.326 3 33.329 3 33.360 3	33.4.01	33.423	33.560	33.603	33.794	34.197	34.485	34.496	34.434	34.334	- 088 78	34.382			
IGHT DESIGN LIP OF KERB		33.326 3 33.329 3 33.360 3	33.401	33.423	33.560	33.603	33.794	34.197 34.211 3	34.485	34.496	34.434	34.334	- 088 78	34.382			
X SURFACE LEFT BOUNDARY		32.899 32.904 32.907 32.927	32.952	32.965		33.154	33.392	33.304	33.474	33.521	33.585	33.762	676 cc	. 80	34.162	34.291	
X SURFACE RIGHT BOUNDARY		32.941 32.944 32.945 32.961 32.961	32.993		33.108	33.14.3	33.203	33.392 33.412	33.369 33.432	33.536	33.587	33.725		011	34.078	34.204	
HAINAGE	0.000 3.462	11.726 13.084 13.684 20.000	28.115 20.11E		00	68.462	80.000 83.933	99.4.05 100.000	114.876	124.902 130.347	14.0.000	160.000 7	1400.001		200.000	210.347	219.986

	SALTMAF REFER TO INTERS	SH ROAD	TAGE 3	LIMIT OF WORKS	FUTURE STAGE 6												
VERTICAL GEOMETRY DESIGN GRADELINE DATUM RL 29.5	-3.36%	21.94m VC	-1.86%		m VC				-0.50%						-1.00%		
DESIGN CENTRELINE	33.220 33.270	33.387 33.402 33.424 33.427	33.423 33.367 33.339	<b>33.233</b> 33.172	33.154 33.080	33.027 33.005	32.927	32.878	32.827	61.	32.727	32.627	32.604 32.595	32.585	32.423 32.402	32.258	32.206 32.195
LEFT DESIGN LIP OF KERB	_	33.287 33.307 33.312	33.308 33.250 33.224	<b>33.120</b> 33.059	33.039	32.912 32.890		32.763	32.712	9.	32.612	32.512	32.489		32.287	32.143	32.091
RIGHT DESIGN LIP OF KERB		33.287 33.307 33.312 33.312	33.308 33.250 33.224	<b>33.120</b> 33.059	33.039	32.912 32.890	32.812	32.763	32.712		32.612	32.512	32.489 32.480	32.470	32.308 32.287	32.143	32.091
EX SURFACE LEFT BOUNDARY		32.756 32.747 32.725 32.725 32.714	32.102 32.669 32.661	<b>32.644</b> 32.645	32.631	32.478		32.410	32.313	2.2	32.260	32.239	32.217 32.205	32.187	32.192 32.164	32.105	31.894 32.150
EX SURFACE RIGHT BOUNDARY		32.692 32.687 32.687 32.677 32.672		<b>32.576</b> 32.594	32.592	32.461 32.443	32.392	32.402	32.348	2.36	32.353	32.255	32.233 32.230	32.224	32.207 32.194	32.270	32.163
CHAINAGE	0.000 3.462 5.462	11.703 13.078 16.429 18.027	25.799 27.397	<b>33.766</b> 38.365	40.000	60.000 64.352	80.000	89.652	100.000	105.504	120.000	14.0.000	144.522 146.333	147.301	163.556 165.612	180.000	185.193

CAESAR	STREET

				Scale								1
					H 1:500	0	5	10	15	20	25	
					SCALE @ A1 V 1:50	0	0.5	1	1.5	2	2.5	
												© This
0	ISSUED FOR CONSTRUCTION	T.Z	22/11/21									ben
А	PRELIMINARY ISSUE	S.M	08/09/21									reta resp
Rev	Amendments	Approved	Date									any







Designed M. WRIGHT Authorised B. WAREHAM

Checked B. IBBS Date 04/03/22

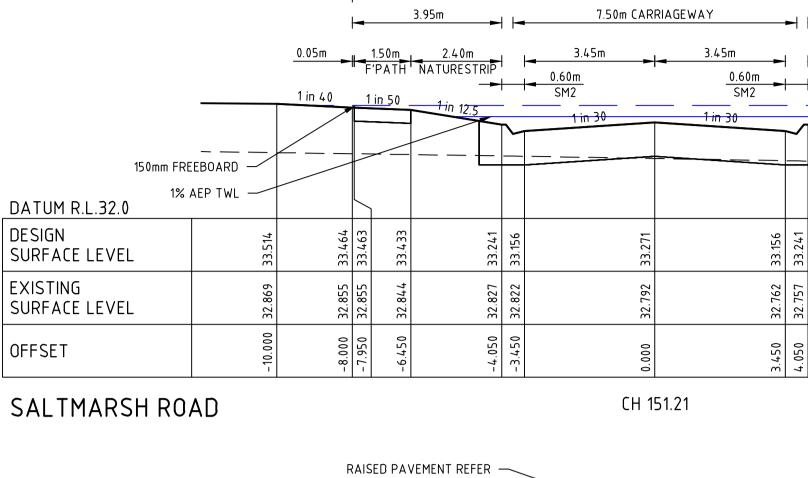
L6 414 LA TROBE STREET PO BOX 16084 MELBOURNE VICTORIA 8007 AUSTRALIA T 61 3 9993 7888 ABN 55 050 029 635 spiire.com.au

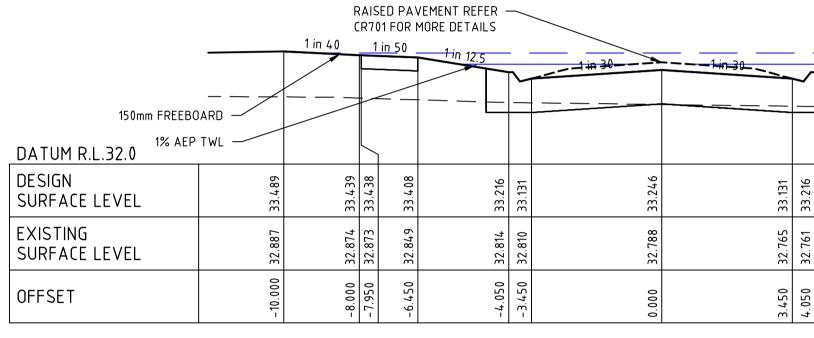


				Scale							
				H 1:1	00 E@ A1	0	1	2	3	4	5
				V 1:5	-	0	0.5	1	1.5	2	2.5
0	ISSUED FOR CONSTRUCTION	T.Z	22/11/21								
В	RAISED PAVEMENT, TWL AND FREEBOARD ADDED TO CH146	B.W	11/11/21								
А	PRELIMINARY ISSUE	S.M	08/09/21								
Rev	Amendments	Approved	Date								

file

### 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.





SALTMARSH ROAD

CH 146.22

16.00m ROAD RESERVE

		1	in 50	1 in 12.5	<u>ک</u>	1 in 30	1 in 30		1 in 12.5	1 in 50		
DATUM R.L.32.0		$ \  \  \  \  \  \  \  \  \  \  \  \  \ $									$\mathbb{R}$	
DESIGN SURFACE LEVEL	33.318	33.317	33.287	33.095	33.010	33.125	33.010	33.095	33.287	33.317	33.318	
EXISTING SURFACE LEVEL	32.784	32.781	32.654	32.652	32.660	32.920	32.897	32.889	32.821	32.788	32.787	
OFFSET	-8.000	-7.950	-6.450	-4.050	-3.450	0.000	3.450	4.050	6.450	7.950	8.000	
SALTMARSH RO	AD					CH 12	22.04					

150mm FREEBOARD 1% AEP TWL TWL = 33.445 FB = 0.178 1 in 50 <u>1 in 12.5</u> 1 in 30 1 in 3 DATUM R.L.32.0 DESIGN 33.267 33.266 044 959 SURFACE LEVEL 33.2 33. 32.934 32.925 EXISTING 32.988 32.987 SURFACE LEVEL 32 32 .050 .950 6.450 OFFSET .050 - 9

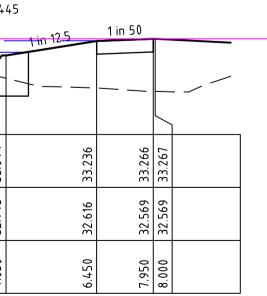
SALTMARSH ROAD

CH 111.82

3.95m		-1
		-1
2.40m	1.50m	0.05m
NATURESTRIP	F'PATH	
	1:0 50	1 in 40

125	1 <u>in 5</u> 0		1 in 40	
1 in 12.5				TWL = 33.356 FB = 0.158
			<u> </u>	
33.433	33.463	33.464	33.514	
32.739	32.728	32.728	32.714	
6.450	7.950	8.000	10.000	

_	1 in 12.5	1 i <u>n 5</u> 0	1	in 40	
1					TWL = 33.316 FB = 0.158
017.00	33.408	33.438	33.439	33.474	
101.20	32.748	32.742	32.742	32.737	
4.VCV	6.450	7.950	8.000	807.6	



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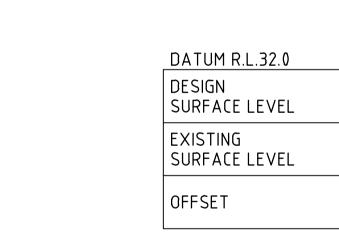
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## SALTMARSH ROAD

CH 187.26

CH 175.39

1 in 30

\_\_\_\_

DATUM R.L.32.0		1 ii	n 50	1 in 12.5	<u>ک</u>	1 in 30	1 in 30		1 in 12.5	1 in 50		
		$\rightarrow$	-									
DESIGN SURFACE LEVEL	33.586	33.585 23.585	33.554	33.362	33.277	33.392	33.277	33.362	33.554	33.584	33.585	
EXISTING SURFACE LEVEL	32.868	32.868 22.068	32.863	32.851	32.848	32.830	32.813	32.810	32.800	32.793	32.793	
OFFSET	-8.063	-8.000 7.050	-6.450	-4.050	-3.450	0.000	3.450	4.050	6.450	7.950	8.000	

## SALTMARSH ROAD



L6 414 LA TROBE STREET PO BOX 16084 MELBOURNE VICTORIA 8007 AUSTRALIA T 61 3 9993 7888 spiire.com.au ABN 55 050 029 635 Designed M. WRIGHT <sup>Authorised</sup> B. WAREHAM Checked B. IBBS Date 04/03/22

33.765	33.764	33.734	33.542	33.457	33.572	
32.979	32.979	32.975	32.972	32.973	32.961	
-8.000	-7.950	-6.450	-4.050	-3.450	0.000	

## SALTMARSH ROAD

DATUM R.L.32.0

SURFACE LEVEL

SURFACE LEVEL

SALTMARSH ROAD

DESIGN

EXISTING

OFFSET

CH 235.14

--+--

CH 211.44

1 in 30

\_ \_\_ \_\_ \_

1 in 30

3.450 4.050

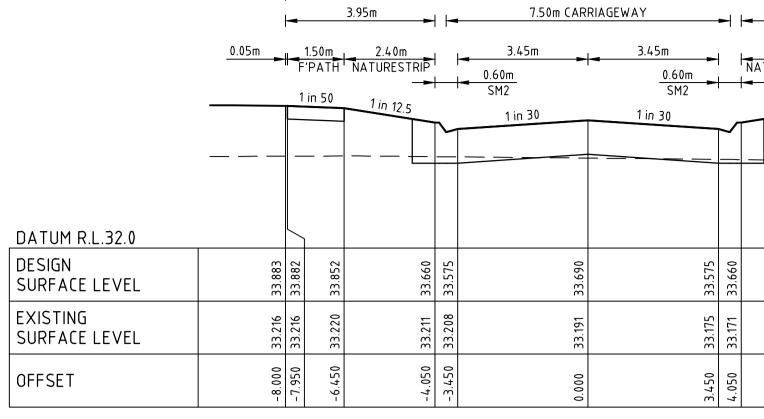
819 817

32.

3.450 4.050

1 in 30

16.00m ROAD RESERVE



1 in 50

1 in 50

33.644 33.643

32.870 32.870

> -8.000 -7.950

33.613

45

1 in 12.5

Ж Ж

.851 .847

32.

-4.050 -3.450

\_\_\_\_

\_\_\_\_\_

1 in 12 5

		1	
3.95m		1	
2.40m TURESTRIP	1.50m F'PATH	 	0.05m
1 in 12.5	1 in 50		
33.852	33.882	33.883	
6.450 33.155 33.852	33.14.4 33.882	33.144	
6.450	7.950	8.000	

1 in 12.5	1 in	50		
אגר גג	to	33.764	33.765	
100 CE		32.911	32.911	
6 <i>1</i> .50		7.950	8.000	

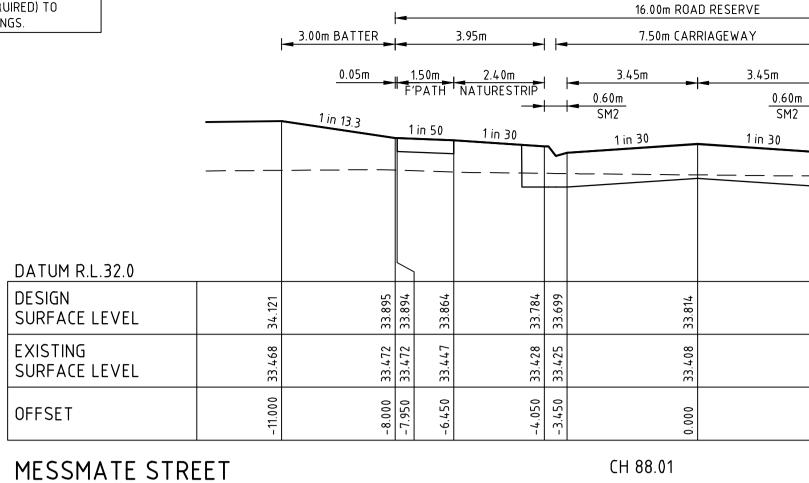
1 in 12.5	_	1 in l	50		
C17 CC			33.643	33.644	
010 00			32.805	32.805	
<i>L</i> E N	0.4.0		7.950	8.000	

OFFICER CENTRAL STAGE 3 ROAD AND DRAINAGE ROAD CROSS SECTIONS - SHEET 1 CARDINA SHIRE YOURLAND PTY LTD

CONSTRUCTION 308881CR400

Rev

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.



### 1 in 19.4 1 in 50 1 in 30 1 in 30 1 in 30 \_\_\_\_ \_\_\_\_ \_\_\_\_ DATUM R.L.32.0 33.710 33.709 DESIGN 33.679 <u>33.599</u> 33.514 SURFACE LEVEL 33.330 33.328 EXISTING 33.258 33.260 33.287 SURFACE LEVEL -8.000 -7.950 -4.050 -3.450 .450 OFFSET Ó

MESSMATE STREET

CH 63.01

		1 in 55.8 1 in 50 1 in 30				1 in 30	1 in 30		
DATUM R.L.32.0									
DESIGN SURFACE LEVEL	483.EE	33.564	33.563 33.533	33.453	33.368	33.483	33.368	33.453	
EXISTING SURFACE LEVEL	33.108	33.084	33.083 33.051	33.006	33.004	32.993	32.967	32.960	
OFFSET	-9.110	-8.000	-7.950 -6.450	-4.050	-3.450	000.0	3.450	4.050	

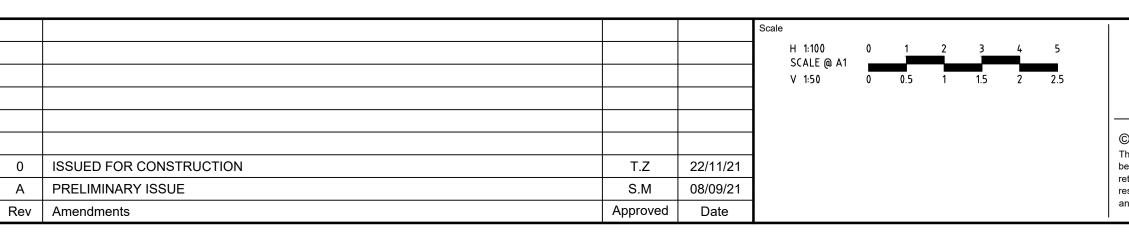
## MESSMATE STREET

CH 33.77

		1 ir	n 50 	1 in 30		1 in 30	1 in 30		-
DATUM R.L.32.0									
DESIGN SURFACE LEVEL	33.401	33.400	33.370	33.290	33.205	33.320	33.205	33.290	
EXISTING SURFACE LEVEL	32.852	32.847	32.725	32.732	32.737	33.016	32.957	32.948	
OFFSET	-8.000	-7.950	-6.450	-4.050	-3.450	0.000	3.450	4.050	

## MESSMATE STREET

CH 13.08



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ABN 55 050 029 635

M. WRIGHT Authorised B. WAREHAM

Designed

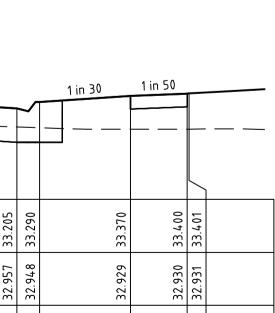
Checked B. IBBS Date 04/03/22

CH 113.85



7.950 8.000

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		1 in 88.1	1 in 50	1 in 30		1 in 30	1 in 30	<u></u>	1 in 30	1 in 50	
DATUM R.L.32.0 DESIGN	520	34.554	523	34.443	358	473	34.358	443	523	.553	34.554
SURFACE LEVEL EXISTING SURFACE LEVEL	3.567 34.	33.547 34.		33.509 34.		34.	33.423 34.	33.404 34.	34.	33.467 34.	
OFFSET	-11.000 33	000.8- 8- 8- 8- 8- 8- 8- 8- 8- 8- 8- 8- 8- 8		-4.050 33		EE 000.0	3.450 33	4.050 33		7.950 33	8.000

## MESSMATE STREET

MESSMATE STREET

spire

		1 in 71.7	1 i	n 50	1 in 30	<b>~</b>	1 in 30	1 in 30		1 in 30	1 in 50		
DATUM R.L.33.0													
DESIGN SURFACE LEVEL	34.679	34.637	34.636	34.606	34.526	34.441	34.556	34.441	34.526	34.606	34.636	34.637	
EXISTING SURFACE LEVEL	33.653	33.653	33.653	33.649	33.635	33.632	33.613	33.602	33.605	33.616	33.622	33.621	
OFFSET	-11.000	-8.000	-7.950	-6.450	-4.050	-3.450	0.000	3.450	4.050	6.450	7.950	8.000	
MESSMATE STRI	FFT						CH 139.51						

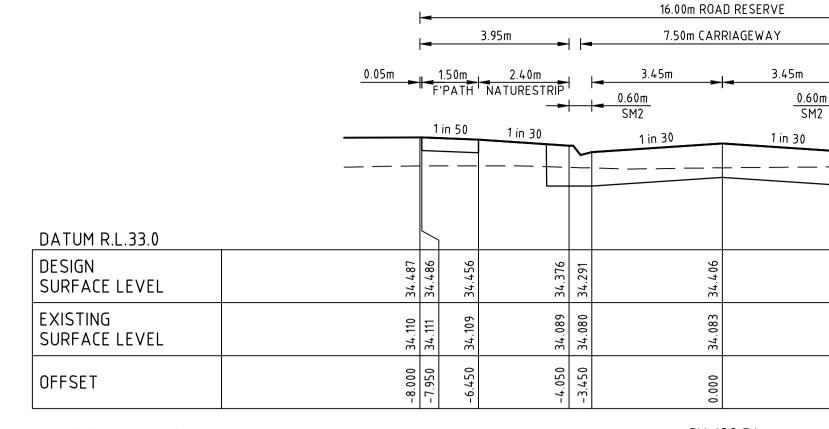
MESSMATE	STREET

CH 164.51

		1 in 28.6	1 in 50	1 in 30		1 in 30	1 in 30	~ 	1 in 30	1 in 50	
DATUM R.L.33.0											
DESIGN SURFACE LEVEL	34.617	34.512	34.511 34.481	34.401	34.316	34.431	34.316	34.401	34.481	34.511	34.512
EXISTING SURFACE LEVEL	33.822	33.809	33.809 33.797	33.813	33.820	33.843	33.841	33.840	33.805	33.789	33.788
OFFSET	-11.000	-8.000	-7.950 -6.450	-4.050	-3.450	0.000	3.450	4.050	6.450	7.950	8.000

MES	SSMA	TE S	TREET

CH 192.51



		1 in 30		1 in 50		
	$\sum$					. <u> </u>
33.514	33.599		33.679	33.709	33.710	
33.220	33.211		33.069	33.158	33.161	
3.450	4.050		6.450	7.950	8.000	

1 in 30 1 in 50

m.

\_\_\_\_

33.563 33.564

.960 .960 32.

7.950 8.000

		NA	2.40m TURES		1.5 F'P/	0m ATH	╟╼─	0.05m	
<u>n</u> 2. ►			1 in 30		1 in	50	1		
		_		_					
33.699	33.784			33.864		33.894	33.895		
33.392	33.370			33.242		33.322	33.325		
3.450	4.050			6.450		7.950	8.000		

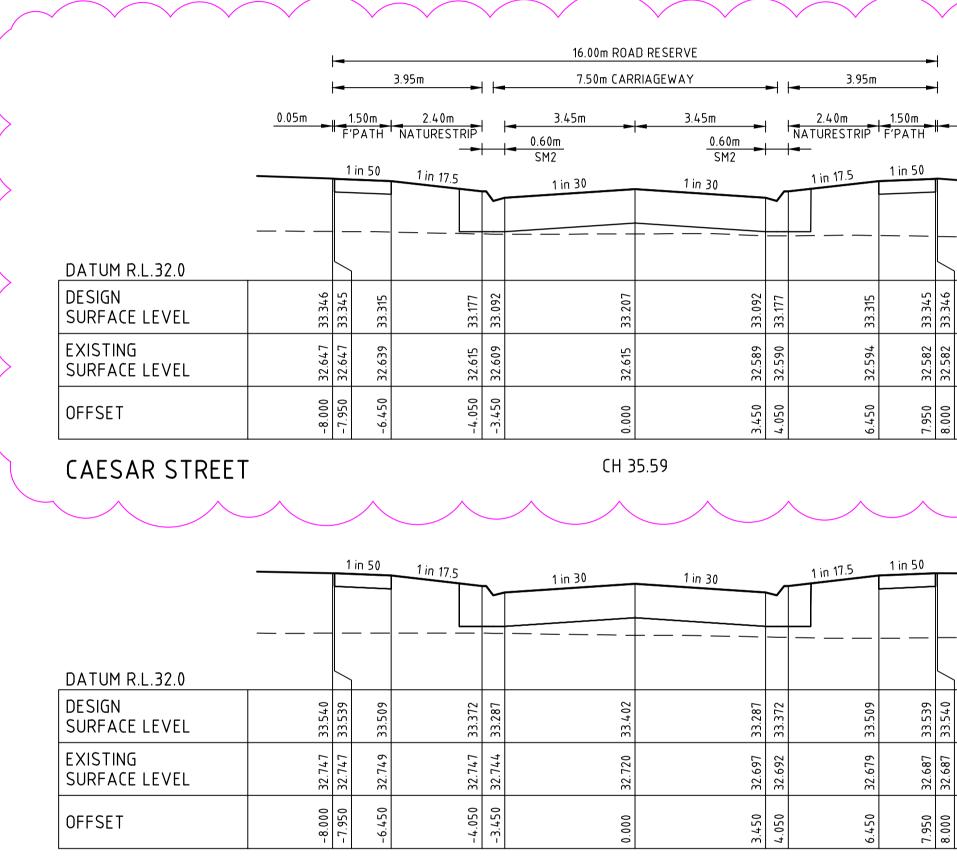
3.95m

				1	
		<b>3</b> .95m		- -{	
		2.40m NATURESTRIP	I <u>-1.50m</u> F'PATH	0.05m_	
		1 in 30	1 in 50	1	_
	$\leq$				
34.291	34.376	34.456	34.486	34.487	
34.094 34.291	34.093	34.096	34.105	34.105	
3.450	4.050	6.450	7.950	8.000	

OFFICER CENTRAL STAGE 3 ROAD AND DRAINAGE ROAD CROSS SECTIONS - SHEET 2 CARDINA SHIRE YOURLAND PTY LTD

CONSTRUCTION 308881CR401

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.



CAESAR STREET

CH 13.08

				Scale H 1:100 0 1 2 3 4 5 SCALE @ A1 V 1:50 0 0.5 1 1.5 2 2.5	dlcs \$0 900 certifice \$0 1400 certifice
					System Certified
1	REVISED CAESAR STREET LIMIT OF WORKS	B.W	14/01/22		© Spiire Australia Pty Ltd All Rights Reserved
0	ISSUED FOR CONSTRUCTION	T.Z	22/11/21		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
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Designed M. WRIGHT Authorised B. WAREHAM

Checked B. IBBS Date 04/03/22

1 in 30 1 in 50

33.491

2

6.450

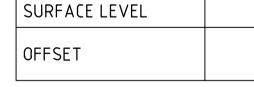
2 2

3.450 4.050

33.521 33.522

32.943 32.944

7.950 8.000



DATUM R.L.32.0

SURFACE LEVEL

DESIGN

EXISTING

BOOTLACE ROAD

CH 13.08

	1 in 5	0			
					<
<u></u>		33.345	33.346		<
+		32.582	32.582		<
		7.950	8.000		<

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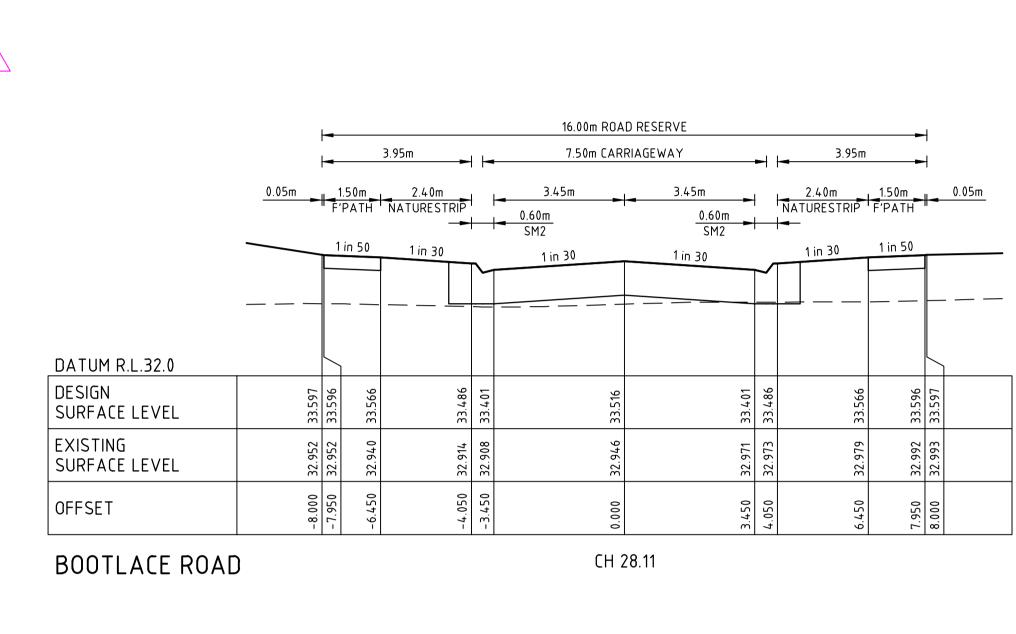
1 in 50

33.539 33.540

32.687 32.687

7.950 8.000

0.05m



1 in 50

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33.491

32.902

-6.450

33.522 33.521

32.904 32.904

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1 in 30

33.411 33.326

32.894 32.897

-4.050 -3.450





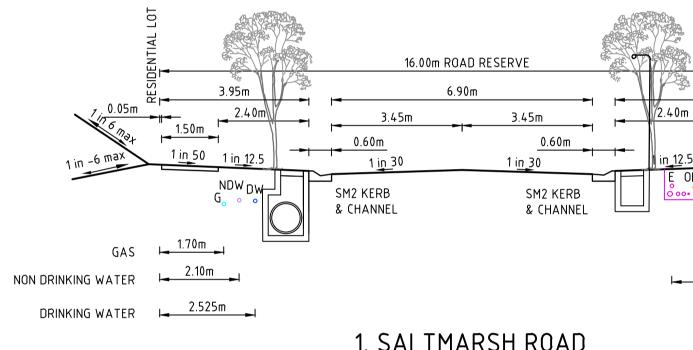


1 in 30

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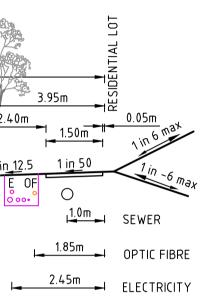
OFFICER CENTRAL STAGE 3	
 ROAD AND DRAINAGE ROAD CROSS SECTIONS - SHEET CARDINA SHIRE YOURLAND PTY LTD	Г 3
CONSTRUCTION	

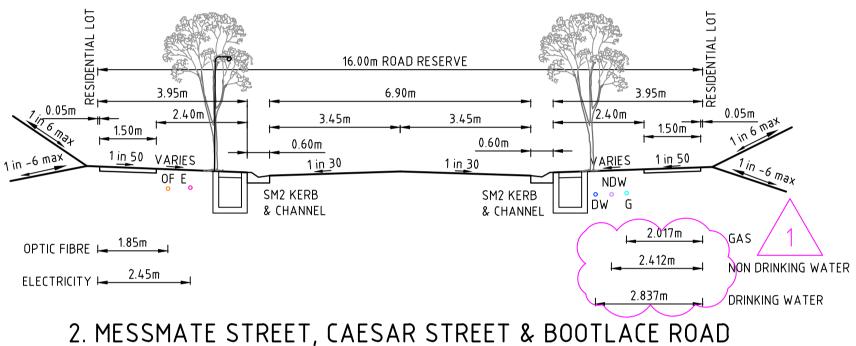
Rev



1. SALTMARSH ROAD 16m WIDE RESIDENTIAL ROAD

				Scale								
					H 1:100 SCALE @ A1	0	1	2	3	4	5	
					V 1:50	0	0.5	1	1.5	2	2.5	
1	SERVICE OFFSETS REVISED	B.W	31/01/22									C Th
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2. MESSMATE STREET, CAESAR STREET & BOOTLACE ROAD 16m WIDE RESIDENTIAL ROAD



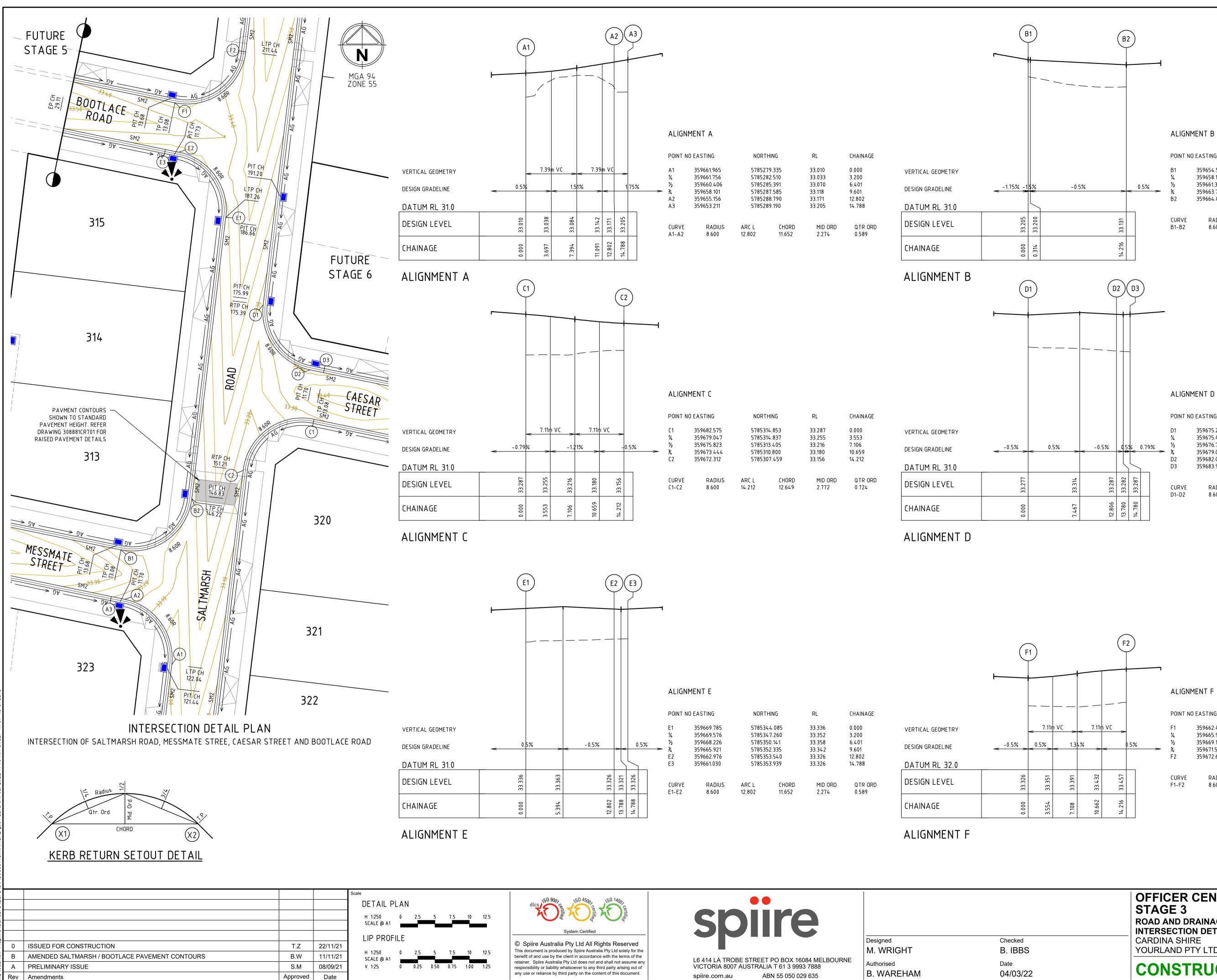
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Designed M. WRIGHT Authorised B. WAREHAM





llat plotted by Mitch Civil\ACAD plot

	RL	CHAIN
	33.336 33.352 33.358 33.342 33.326 33.326	0.000 3.200 6.401 9.601 12.802 14.78
)RD 52	MID ORD 2.274	Q T F 0.58

	(F	1)	+		F	2							
						-		ALIGNI	MENT F				
								POINT N	DEASTING	NORT	HING	RL	CHAINAGE
VERTICAL GEOMETRY		7.11m	vc	7.11r	n VC			F1	359662.417	578536		33.326	0.000
					_			1/4 1/2	359665.946 359669.172	578536 578536		33.351 33.391	3.554 7.108
DESIGN GRADELINE	<del>~ -0.5%</del> >	< <sup>0.5%</sup>	1.341	%	<	0.5%	>	¥4	359671.551	578536		33.432	10.662
DATUM RL 32.0								F2	359672.684	578536	8.092	33.457	14.216
DESIGN LEVEL	33.326	33.351	33.391	33.432	33.457			CURVE F1-F2	RADIUS 8.600	ARC L 14.216	CHORD 12.652	MID ORD 2.774	QTR ORD 0.724
CHAINAGE	0.000	3.554	7.108	10.662	14.216								

spiire.com.au ABN 55 050 029 635

CONSTRUCTION 308881CR500



DEASTING	NORT	HING	RL	CHAIN
359675.211	578533		33.277	0.000
359675.421	578532		33.293	3.201
359676.771	578532	25.407	33.309	6.403
359679.078	578532	23.213	33.303	9.604
359682.024	578532	22.009	33.287	12.806
359683.958	578532	21.613	33.287	14.78
RADIUS	ARC L	CHORD	MID ORD	QTI
8.600	12.806	11.655	2.275	0.58

ALIGN	MENT B				
POINT N	IO EASTING	NORT	HING	RL	CHAINAGE
B1	359654.598	57852	95.949	33.205	0.000
1/4	359658.127	57852	95.964	33.184	3.554
1/2	359661.352	578529	97.394	33.166	7.108
74	359663.732	578530	00.000	33.148	10.662
B2	359664.865	5785303.342		33.131	14.216
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD

12.652

2.774

14.216

8.600

0.724

TR ORD ).589

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name 308881CR600.dwg location \\spiire\benda													
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				MESSMATE STREET						BOOTLACE ROAD		
				MESSM	F		/		$\sum$			
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							P					
							] [			]	U	
Pipe Diameter Pipe Class Pipe Grade Velocity (m/s) Pipe Flow (m3/s) Pipe Capacity (m3/s) DATUM RL		600¢ Class 2 1 in 300 Vf=1.254 Qa=0.286 Qcap=0.355 24.00		450ø Class 2 1 in 300 Vf=1.035 Qa=0.129 Qcap=0.165		450φ Class 2 1 in 300 Vf=1.035 Qa=0.127 Qcap=0.165			\ Q	375¢ Class 2 1 in 300 /f=0.917 ta=0.082 cap=0.101	300¢ Class 2 1 in 150 Vf=1.11 Qa=0.07 Qcap=0.0	2 0 7 71
DEPTH TO INVERT	2.182	2.182	2.197	2.041	2.058			2.123	2.048	1.983	1.908	
DESIGN INVERT LEVEL				31.177					31.4.05	31.442		
HYDRAULIC GRADE LEVEL	32.631 3		32.650 3		5 797 CF		·	 32.877		32.950 3		L
FINISHED SURFACE LEVEL	33.096		33.14.0	33.255				 33.453		33.425	<u>.</u>	
EXISTING SURFACE LEVEL	32.928		32.647	32.820				 32.850		32.890		
CHAINAGE	0.000	L = 8.619m	8.619	L=25.382m 50. 2. 2.		L=39.839m	00.4.71	 73.84.0	L	=11.128m 896 <sup>.</sup> 78	L=9.229	TT C

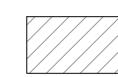
(302)

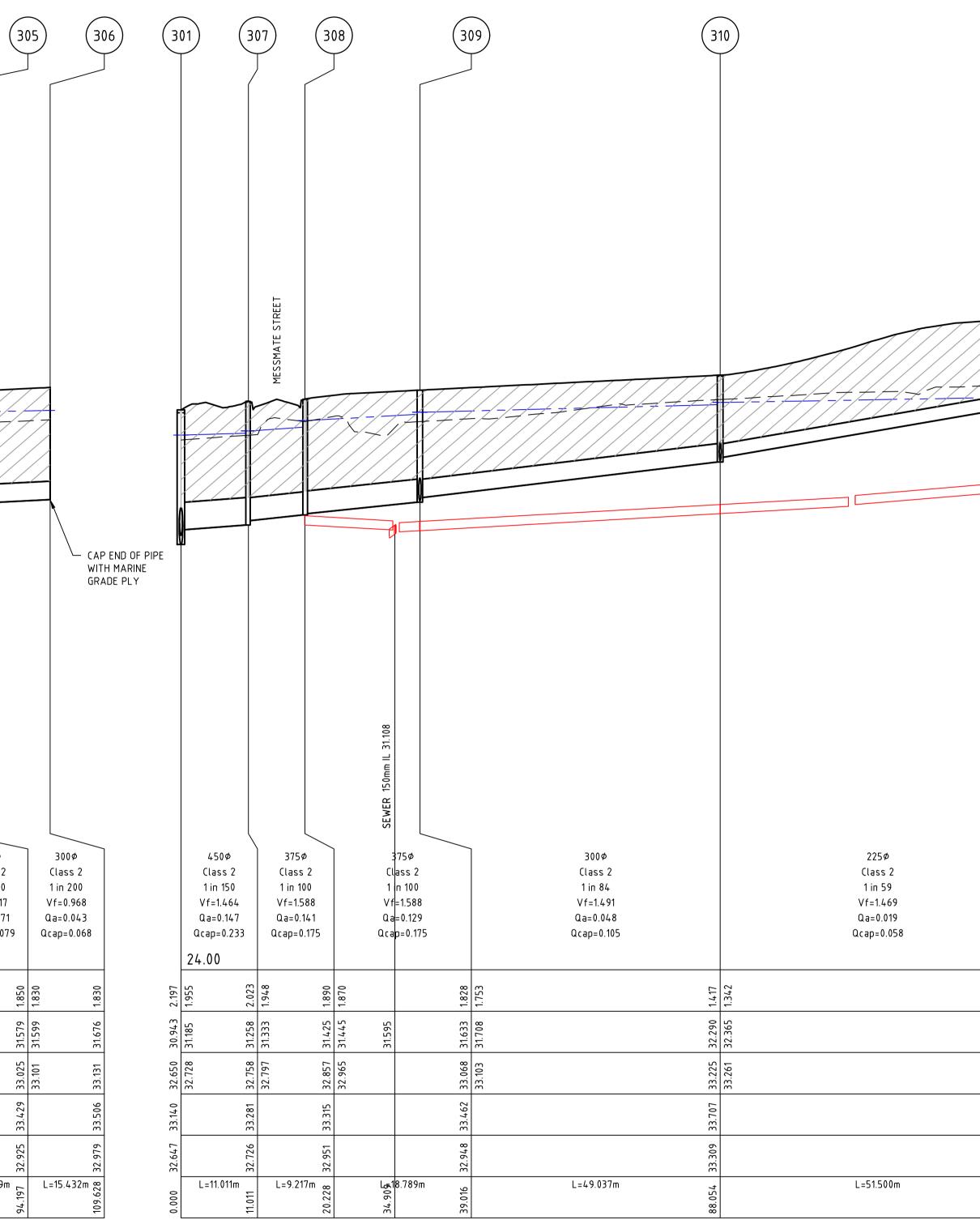
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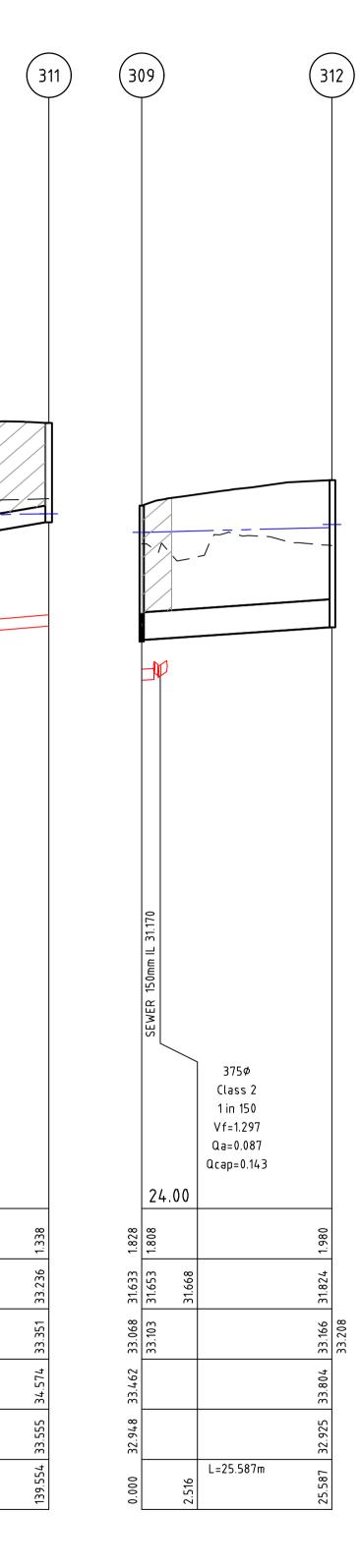
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Designed M. WRIGHT Authorised B. WAREHAM

Checked B. IBBS Date 04/03/22

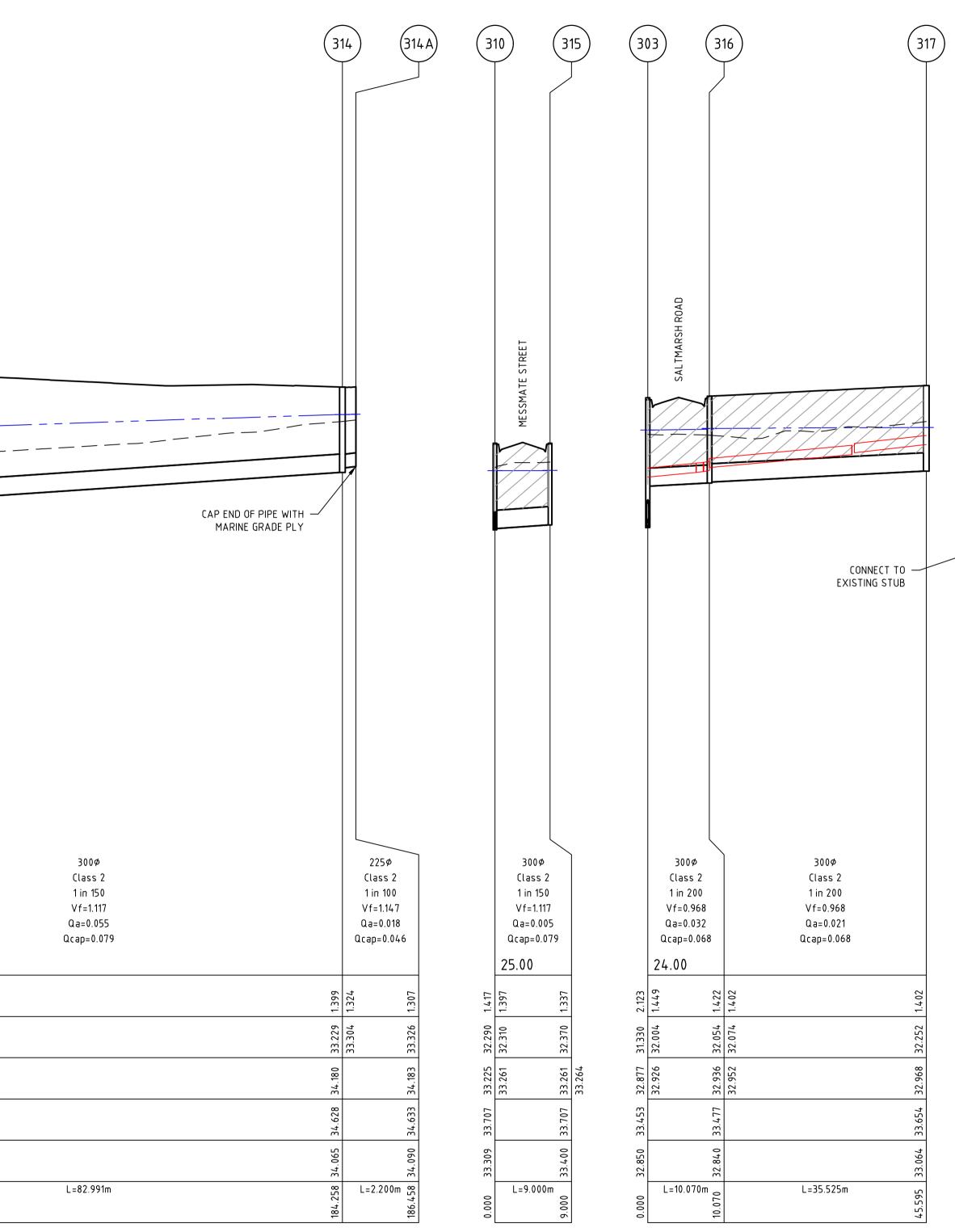


OFFICER CENTRAL STAGE 3 ROAD AND DRAINAGE DRAINAGE LONG SECTIONS - SHEET 1 CARDINA SHIRE YOURLAND PTY LTD CONSTRUCTION 308881CR600 0

	(3	12)	313
Pipe Diameter Pipe Class Pipe Grade Velocity (m/s) Pipe Flow (m3/s) Pipe Capacity (m3/s) DATUM RL		300¢ Class 2 1 in 100 Vf=1.369 Qa=0.092 Qcap=0.097 25.00	
DEPTH TO INVERT	1.980	1.905	1.912
DESIGN INVERT LEVEL			92.920 97.9.25
HYDRAULIC GRADE LEVEL	33.166	33.208	33.909
FINISHED SURFACE LEVEL	33.804		000
EXISTING SURFACE LEVEL	10		704.00
	25.587 3		

CRUSHED ROCK BACKFILL

				Scale									
					H 1:500	0	5	10	15	20	25		
					SCALE @ A1 V 1:50	0	0.5	1	1.5	2	2.5		
												-	
0	ISSUED FOR CONSTRUCTION	T.Z	22/11/21										С Гhi
В	AMENDED 312-314, 303-317. ADDED 314A	B.W	11/11/21									b	ber
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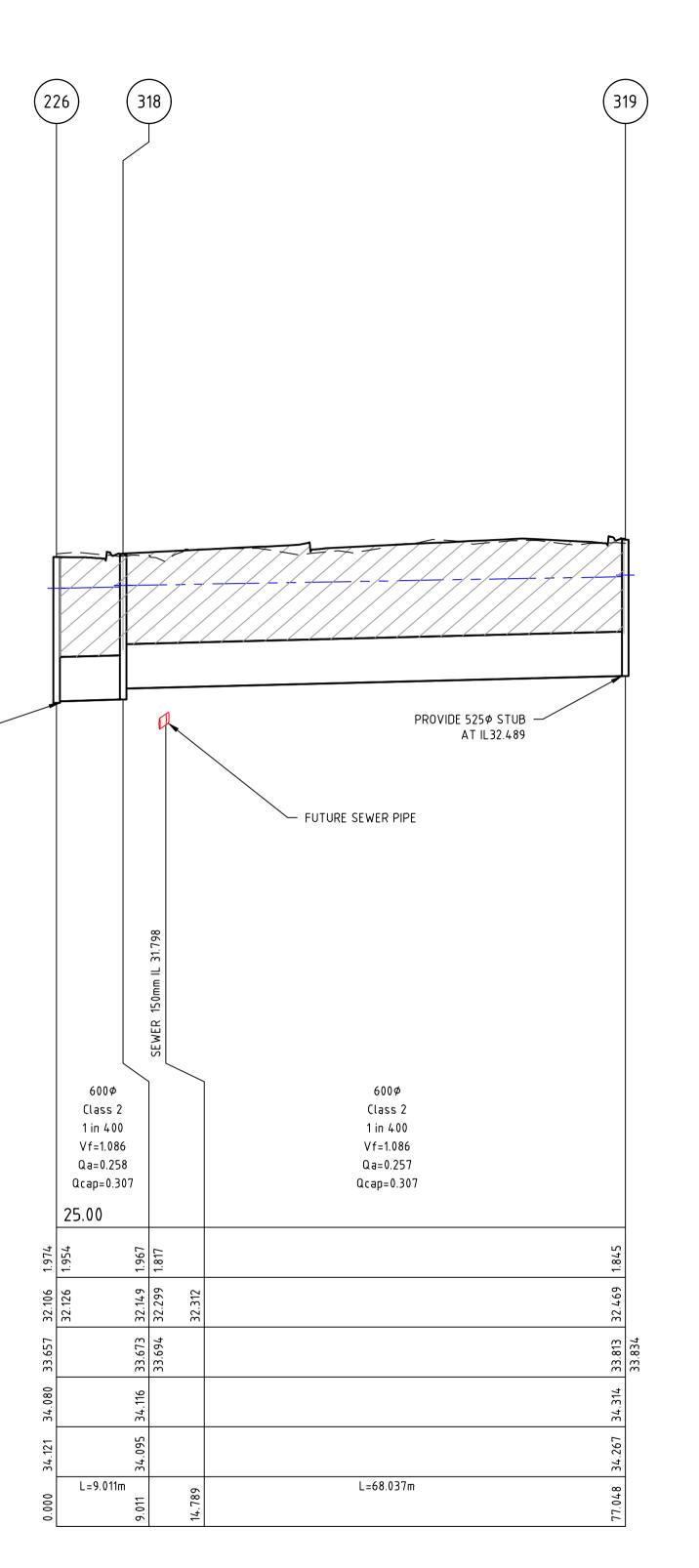




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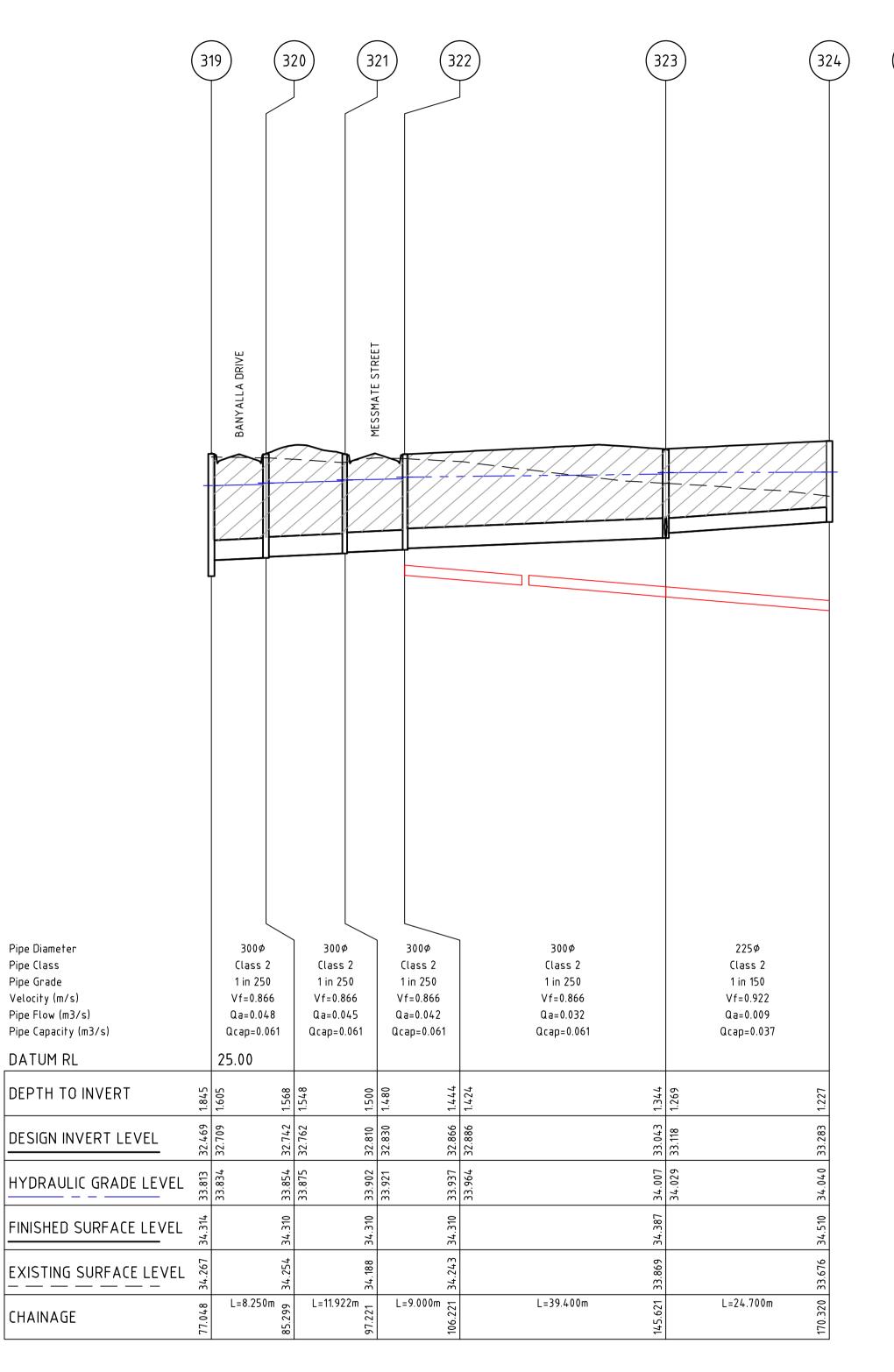


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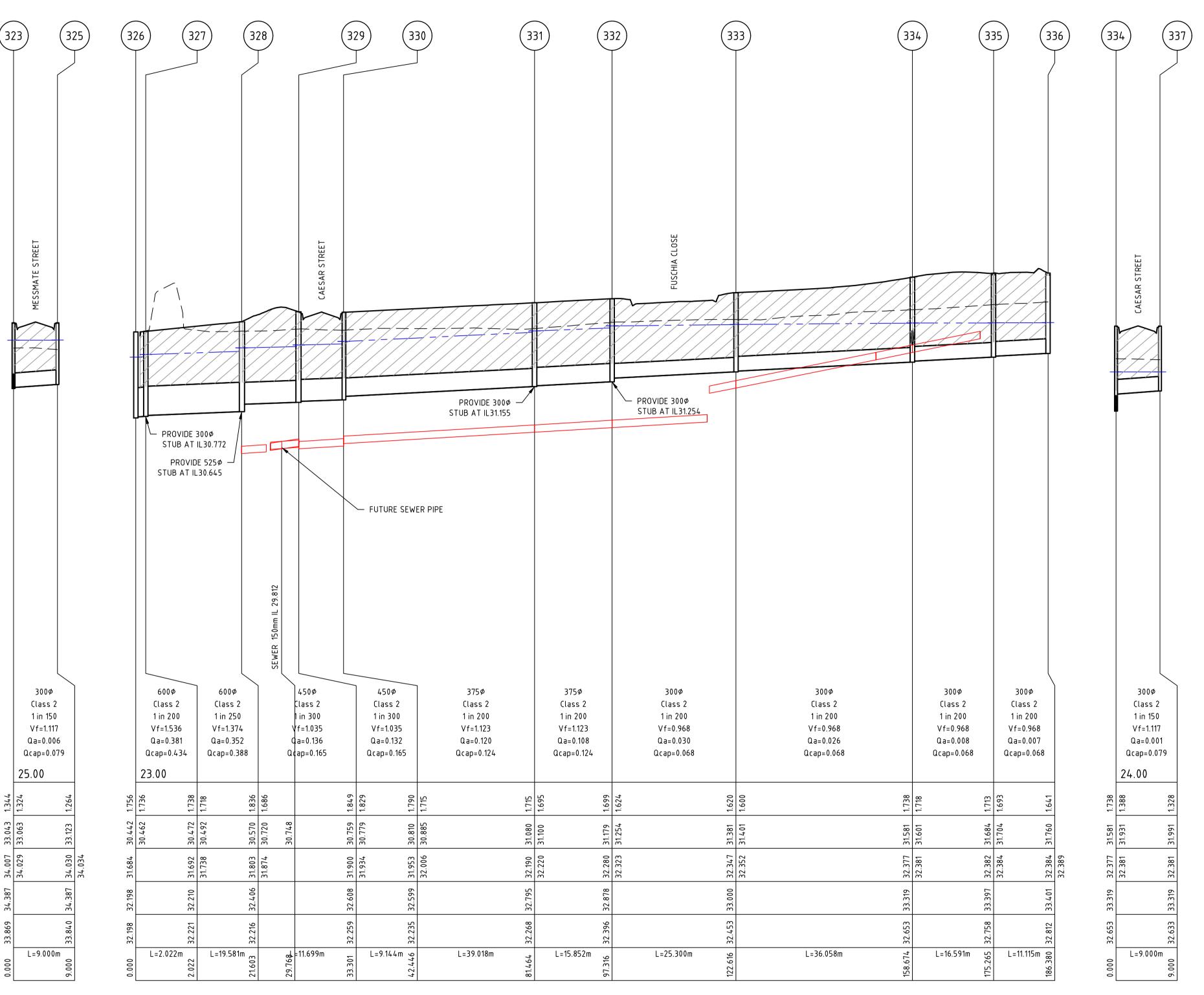


OFFICER CENTRAL<br/>STAGE 3ROAD AND DRAINAGE<br/>DRAINAGE LONG SECTIONS - SHEET 2CARDINA SHIRE<br/>YOURLAND PTY LTDCONSTRUCTIONDraw<br/>308881CR601

Rev 0



				Scale								<u> </u>
					H 1:500 SCALE @ A1	0	5	10	15	20	25	
					√ 1:50	0	0.5	1	1.5	2	2.5	
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0	ISSUED FOR CONSTRUCTION	T.Z	22/11/21									
В	AMENDED HGL 326-337	B.W	11/11/21									þ
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Designed M. WRIGHT Authorised **B. WAREHAM** 

Checked B. IBBS Date 04/03/22 **OFFICER CENTRAL** STAGE 3 ROAD AND DRAINAGE DRAINAGE LONG SECTIONS - SHEET 3 CARDINA SHIRE YOURLAND PTY LTD CONSTRUCTION 308881CR602 0

				Scale						
				H 1:500	0	5	10	15	20	25
				SCALE @ A1 V 1:50	0	0.5	1	1.5	2	2.5
1	AMENDED PIT 338 FS LEVEL	B.W	04/03/22							
0	ISSUED FOR CONSTRUCTION	T.Z	22/11/21							
В	AMENDED PIT SCHEDULE	B.W	11/11/21							
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			(			
Pipe Diameter			225ø			
Pipe Class Pipe Grade Velocity (m/s) Pipe Flow (m3/s) Pipe Capacity (m3/s)			Class 2 1 in 150 Vf=0.922 Qa=0.027 Qcap=0.037			
DATUM RL DEPTH TO INVERT	1.446	24.00 9 <sup>77</sup> 1			1.64.8	
DESIGN INVERT LEVEL				(	31.365 1.	
HYDRAULIC GRADE LEVEL	32.047		/	>	32.14.4	32.191
FINISHED SURFACE LEVEL	32.634				33.013	
EXISTING SURFACE LEVEL	32.613			/	32.633	
CHAINAGE	0.000		L=26.500m	$\geq$	26.500	

(234)

(338)

1

								1	E PIT SC			1
	PIT	COORD	INATES	INTE	RNAL		INLET	C	UTLET	PI		- REMARKS
NAME	TYPE	EASTING	NORTHING	WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
204	ENDPIPE	359659.672	5785270.326			600	30.914			33.096	2.182	EXISTING ENDPIPE
301	GRATED SIDE ENTRY PIT	359660.702	5785278.883	900	900	450	31.093	600	30.943	33.140	2.197	HAUNCHED W/ 600 X 900 COVER. REFER EDCM
						450	31.185					
302	GRATED SIDE ENTRY PIT	359663.891	5785304.064	900	900	450	31.197	450	31.177	33.255	2.078	HAUNCHED W/ 600 X 900 COVER. REFER EDCM
303	GRATED SIDE ENTRY PIT	359668.682	5785343.613	600	900	375	31.405	450	31.330	33.453	2.123	REFER EDCM 603
						300	32.004					
304	GRATED SIDE ENTRY PIT	359662.145	5785352.619	600	900	300	31.517	375	31.442	33.425	1.983	REFER EDCM 603
305	GRATED SIDE ENTRY PIT	359662.041	5785361.848	600	900	300	31.599	300	31.579	33.429	1.850	REFER EDCM 603
306	ENDPIPE	359646.924	5785364.950					300	31.676	33.506	1.830	
307	GRATED SIDE ENTRY PIT	359654.357	5785287.882	600	900	375	31.333	450	31.258	33.281	2.023	REFER EDCM 603
308	GRATED SIDE ENTRY PIT	359654.221	5785297.098	600	900	375	31.445	375	31.425	33.315	1.890	REFER EDCM 603
309	JUNCTION PIT	359635.816	5785300.875	600	900	300	31.708	375	31.633	33.462	1.828	REFER EDCM 605
						375	31.653					
310	GRATED SIDE ENTRY PIT	359587.780	5785310.733	600	900	225	32.365	300	32.290	33.707	1.417	REFER EDCM 603
						300	32.310					
311	JUNCTION PIT	359537.331	5785321.086	600	900			225	33.236	34.574	1.338	REFER EDCM 605
312	JUNCTION PIT	359638.877	5785326.278	600	900	300	31.899	375	31.824	33.804	1.980	REFER EDCM 605
313	JUNCTION PIT	359564.742	5785341.492	600	900	300	32.676	300	32.656	34.588	1.932	REFER EDCM 605
314	JUNCTION PIT	359481.402	5785358.595	600	900	225	33.304	300	33.229	34.628	1.399	
314 A	ENDPIPE	359481.451	5785359.103					225	33.326	34.633	1.307	
315	GRATED SIDE ENTRY PIT	359585.970	5785301.917	600	900			300	32.370	33.707	1.337	REFER EDCM 603
316	GRATED SIDE ENTRY PIT	359677.935	5785345.266	600	900	300	32.074	300	32.054	33.477	1.422	REFER EDCM 603
317	JUNCTION PIT	359682.409	5785382.309	600	900			300	32.252	33.654	1.402	REFER EDCM 605
226	JUNCTION PIT	359433.769	5785245.165	900	900	600	32.126			34.080	1.974	EXISTING PIT
318	JUNCTION PIT	359434.397	5785254.155	900	900	600	32.299	600	32.149	34.116	1.967	HAUNCHED W/ 600 X 900 COVER. REFER EDCM
319	JUNCTION PIT	359442.519	5785321.705	900	900	300	32.709	600	32.469	34.314	1.845	HAUNCHED W/ 600 X 900 COVER. REFER EDCM
						525	32.489					
320	JUNCTION PIT	359450.711	5785320.720	600	900	300	32.762	300	32.742	34.310	1.568	REFER EDCM 605. TO BE CONVERTED TO GSEP
321	JUNCTION PIT	359460.384	5785327.690	600	900	300	32.830	300	32.810	34.310	1.500	REFER EDCM 605. TO BE CONVERTED TO GSEP
322	JUNCTION PIT	359462.193	5785336.506	600	900	300	32.886	300	32.866	34.310	1.444	REFER EDCM 605. TO BE CONVERTED TO GSEP
323	GRATED SIDE ENTRY PIT	359500.789	5785328.585	600	900	225	33.118	300	33.043	34.387	1.344	REFER EDCM 603
JLJ			5705520.505		200	300	33.063	500	55.045	54.507	1.944	
324	JUNCTION PIT	359524.982	5785323.609	600	900	000	55.005	225	33.283	34.510	1.227	REFER EDCM 605
325	GRATED SIDE ENTRY PIT	359498.979	5785319.769	600	900			300	33.123	34.387	1.227	REFER EDCM 603
326	GRATED JUNCTION PIT	359814.419	5785256.658	900	900	600	30.462	500	55.125	32.198	1.756	EXISTING PIT
327	JUNCTION PIT	359814.764	5785258.650	900	900	600	30.492	600	30.472	32.190	1.738	HAUNCHED W/ 600 X 900 COVER. REFER EDCM
521	JUNCTION PT	559014.704	5765250.050	900	900	300	30.492	000	JU.47Z	52.210	1. 7 0	HAGNCHED W/ 600 A 900 COVER. REFER EDCI
328	JUNCTION PIT	250919 109	5785277.943	900	900	450	30.720	600	30.570	32.406	1.836	
520	JUNCTION PT	359818.108	5705277.945	900	900			600	50.570	52.406	1.000	HAUNCHED W/ 600 X 900 COVER. REFER EDCM
220		75.0.011.10.0	5705207 244	000	000	525	30.645	(50	20.750	22 ( 0.0	10/0	
329	JUNCTION PIT	359811.108	5785287.316	900	900	450	30.779	450	30.759	32.608	1.849	HAUNCHED W/ 600 X 900 COVER. REFER EDCM
330		359812.942	5785296.274	600	900	375	30.885	450	30.810	32.599	1.790	REFER EDCM 605. TO BE CONVERTED TO GSEP
331	JUNCTION PIT	359774.718	5785304.105	600	900	375	31.100	375	31.080	32.795	1.715	REFER EDCM 605
						300	31.155	295	24470	20.050	4.400	
332	JUNCTION PIT	359759.203	5785307.357	750	900	300	31.254	375	31.179	32.878	1.699	HAUNCHED W/ 600 X 900 COVER. REFER EDCM
						300	31.254					
333	JUNCTION PIT	359734.401	5785312.353	600	900	300	31.401	300	31.381	33.000	1.620	REFER EDCM 605. TO BE CONVERTED TO GSEP
334	JUNCTION PIT	359699.077	5785319.590	600	900	300	31.601	300	31.581	33.319	1.738	REFER EDCM 605
						300	31.931				· -	
335	GRATED SIDE ENTRY PIT	359682.823	5785322.917	600	900	300	31.704	300	31.684	33.397	1.713	REFER EDCM 603
336	GRATED SIDE ENTRY PIT	359676.325	5785331.935	600	900			300	31.760	33.401	1.641	REFER EDCM 603
337	JUNCTION PIT	359697.272	5785310.773	600	900			300	31.991	33.319	1.328	REFER EDCM 605
234	ENDPIRE	359695 580	5785262.005	$\checkmark$		225	31.188			32.634	1.446	EXISTINGENBPIPE
338	GRATED JUNCTION PIT	359698.757	5785288.314	600	900			225	31.365	33.013	1.648	REFER EDCM 605 W/ CLASS B GRATED LID

DRAINAGE PIT SCHEDULE



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L6 414 LA TROBE STREET PO BOX 16084 MELBOURNE VICTORIA 8007 AUSTRALIA T 61 3 9993 7888 ABN 55 050 029 635 spiire.com.au

Designed M. WRIGHT Authorised B. WAREHAM

M 603 & 607		
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	PIT CENTRE SETOUT POINT	
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TYPIC	AL DRAINAGE PIT SETOUT POINT	
	NOT TO SCALE	
1		
	OFFICER CENTRAL STAGE 3	
	ROAD AND DRAINAGE DRAINAGE LONG SECTIONS - PIT SCHEDULE CARDINA SHIRE	
	YOURLAND PTY LTD	ev
	CONSTRUCTION 308881CR603	1

## **DESIGN PAVEMENT PROFILE**

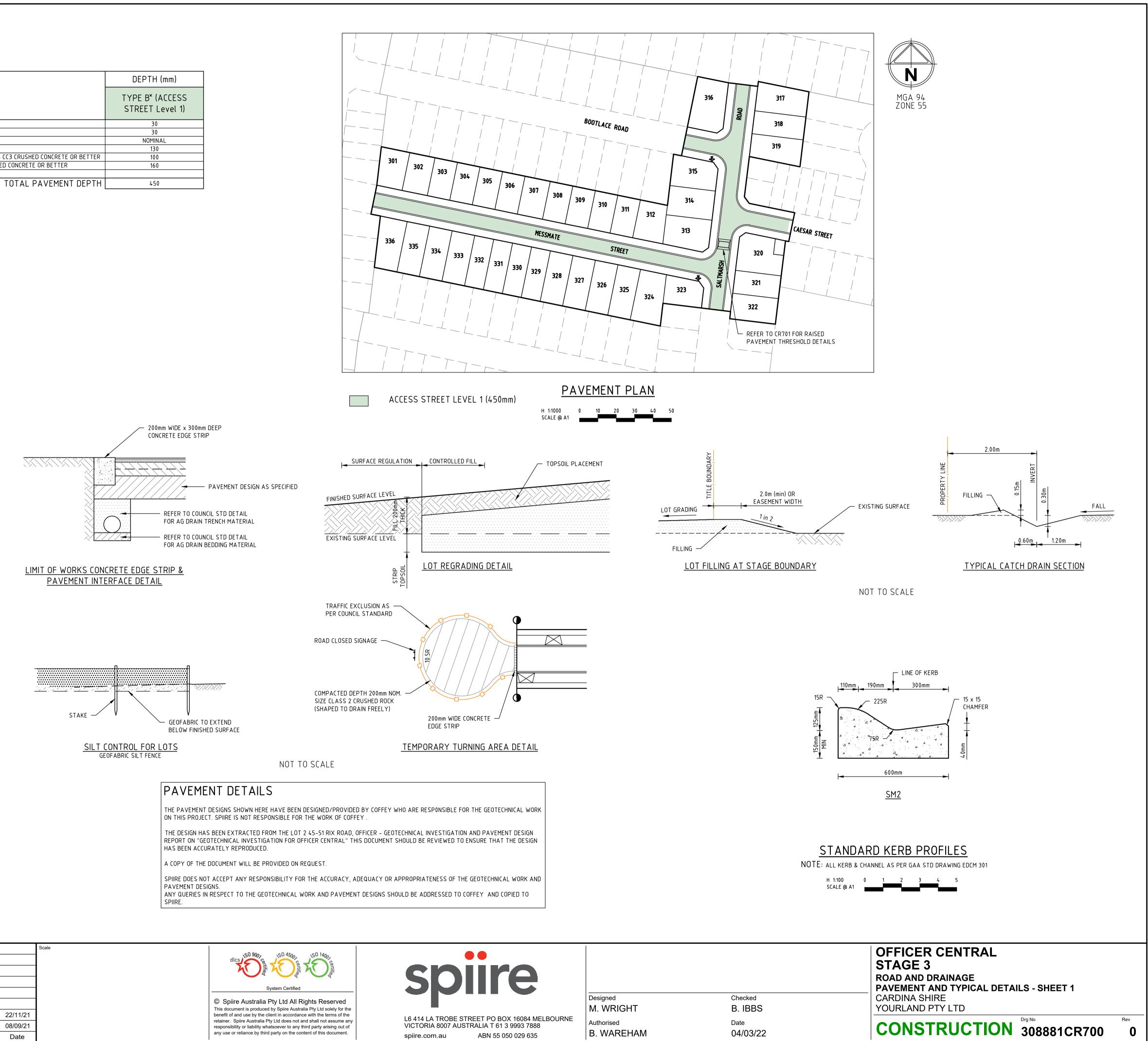
		DEPTH (mm)
PAVEMENT LAYER	DESCRIPTION	TYPE B <sup>×</sup> (ACCESS STREET Level 1)
ASPHALT WEARING COURSE	VICROADS SIZE 10 TYPE N CLASS C170 BINDER	30
ASPHALT BASE COURSE	VICROADS SIZE 10 TYPE N CLASS C170 BINDER	30
BITUMINOUS PRIME	NOMINAL	NOMINAL
BASE	VICROADS 20mm CLASS 2 CRUSHED ROCK OR EQUIVALENT	130
UPPER SUBBASE	VICROADS 20mm CLASS 3 CRUSHED ROCK OR BETTER, 20mm CLASS CC3 CRUSHED CONCRETE OR BETTER	100
LOWER SUBBASE	VICROADS CLASS 4 CRUSHED ROCK OR BETTER, CLASS CC3 CRUSHED CONCRETE OR BETTER	160
SUBGRADE	SILTY CLAY WITH DESIGN CBR OF 3.5%	

\* REFER PAVEMENT PLAN FOR LOCATION OF PAVEMENT TYPES

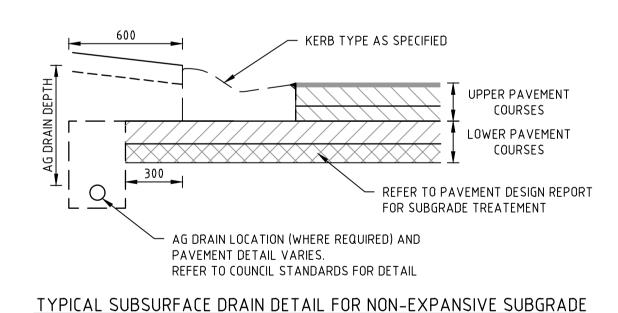
	ROAD NAME	TYPE
	SALTMARSH ROAD	В
	MESSMATE STREET	В
	CAESAR STREET	В
Π	BOOTLACE ROAD	В

### GENERAL NOTES:

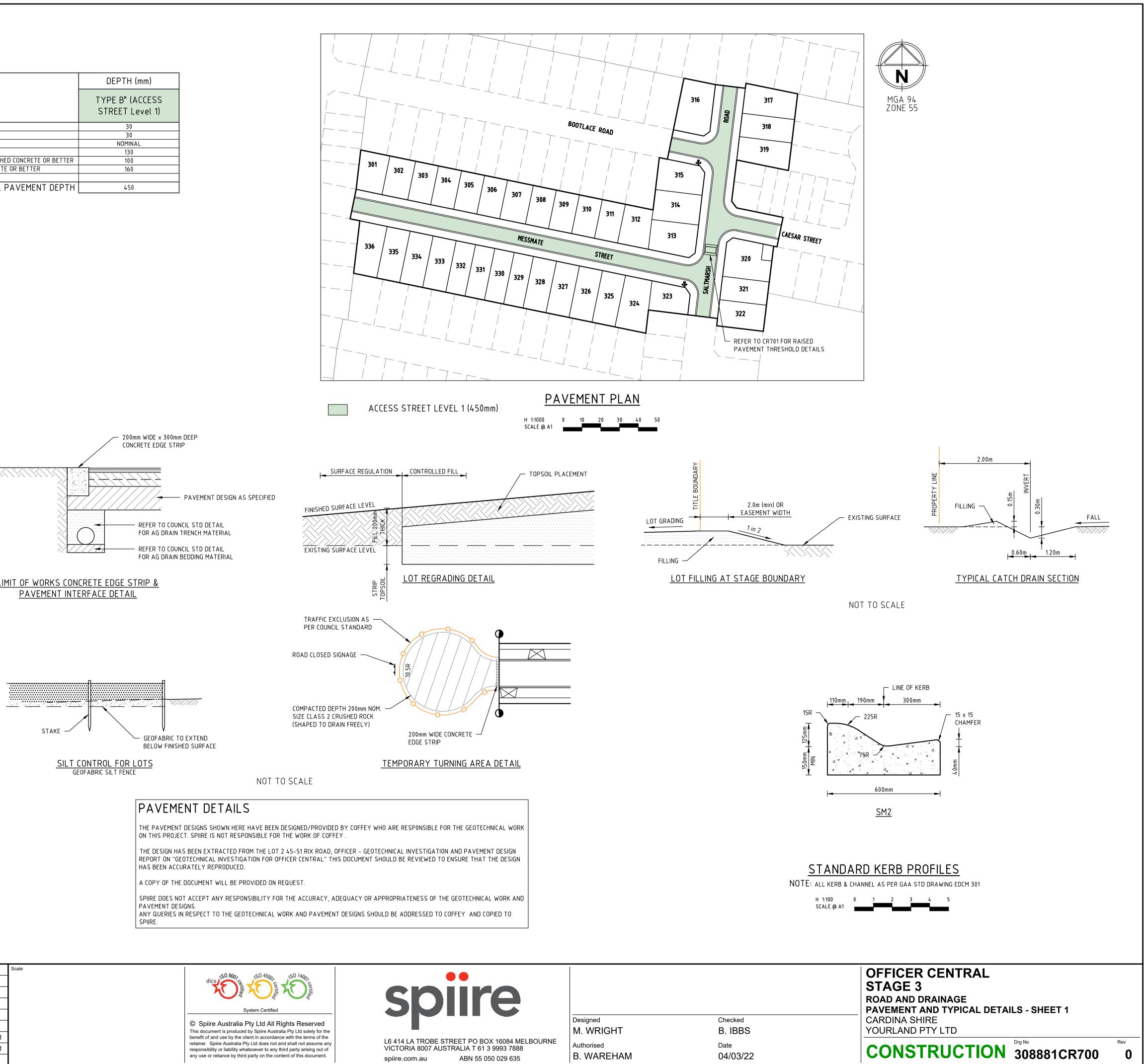
- 1. ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE; OR VIC ROADS STANDARDS FOR NON RESIDENTIAL STREETS.
- 2. ALL CONCRETE TO BE MINIMUM 32MPa COMPRESSIVE STRENGTH
- 3. CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS,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

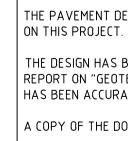






REFER TO AUTHORITY REQUIREMENTS FOR SPECIFIC DETAILS

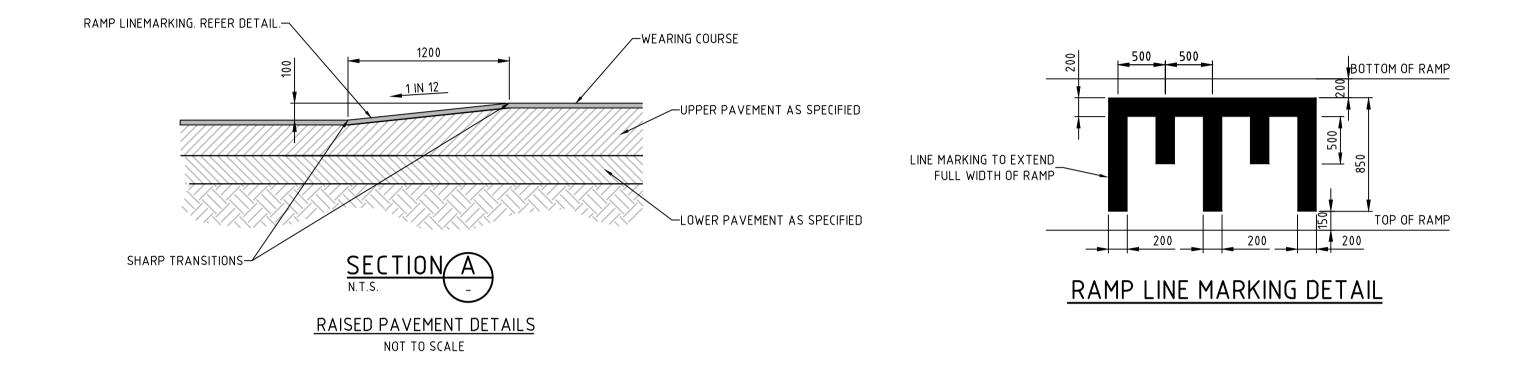


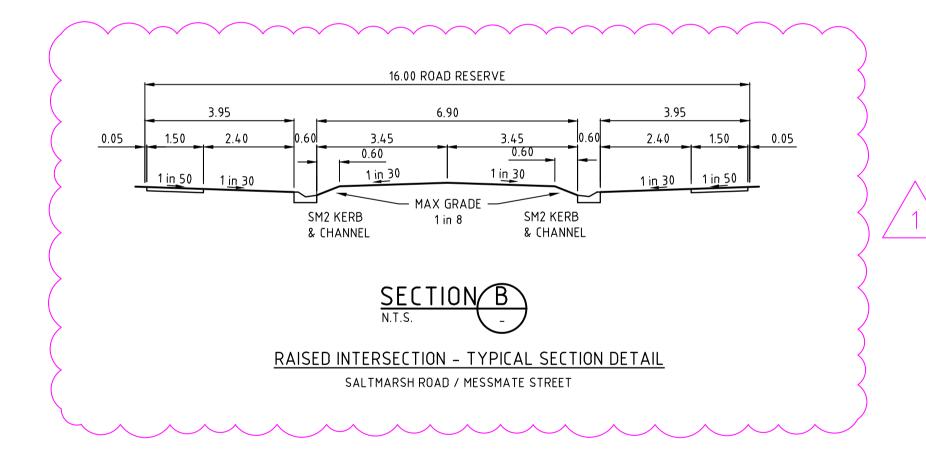


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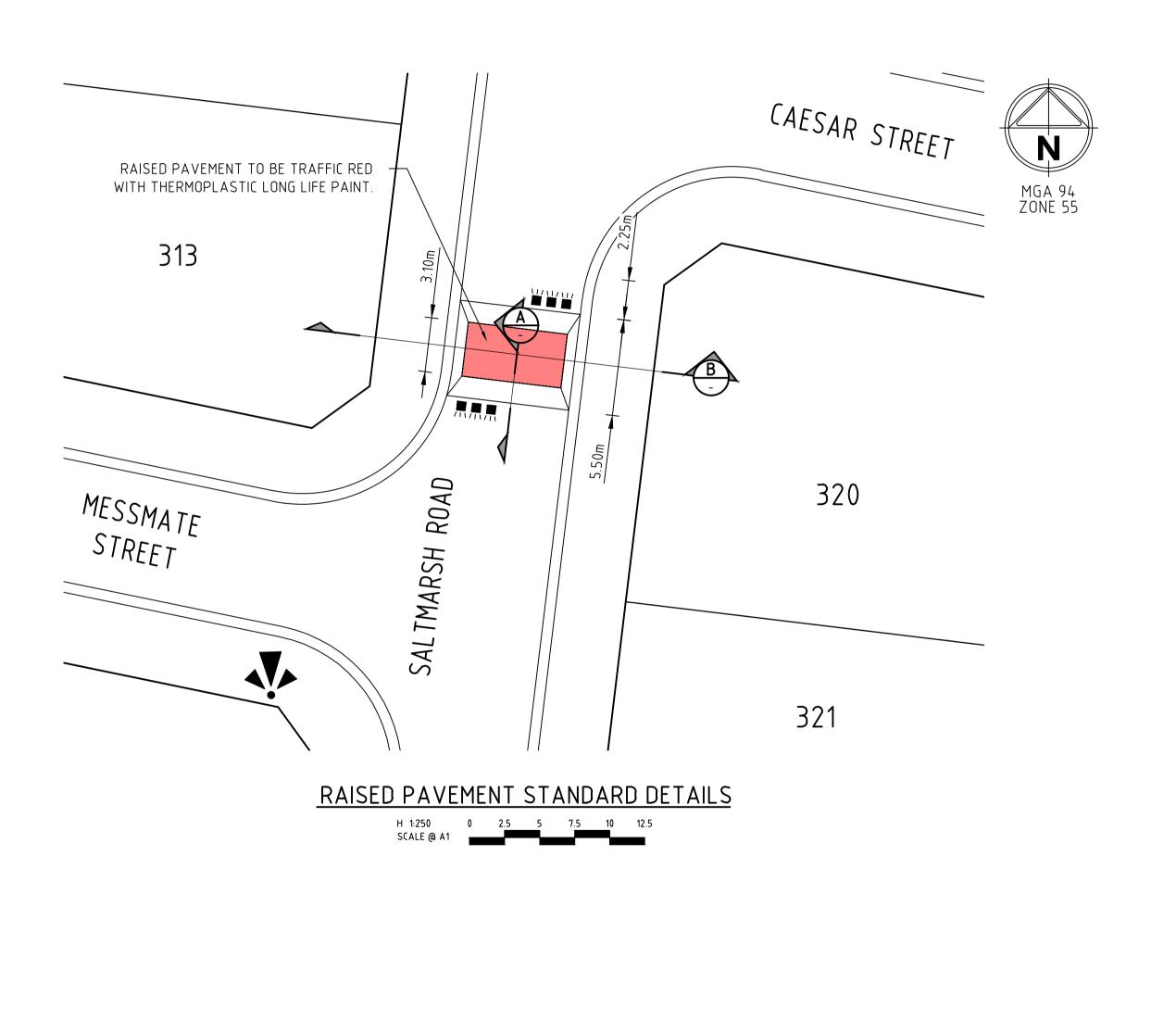








. 1	ADJUSTED TO COUNCIL COMMENTS	B.W	11/01/22
0	ISSUED FOR CONSTRUCTION	T.Z	22/11/21
В	AMENDED RAISED PAVMENT GRADE	B.W	11/11/21
Α	PRELIMINARY ISSUE	S.M	08/09/21
Rev	Amendments	Approved	Date





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OFFICER CENTRAL STAGE 3 ROAD AND DRAINAGE PAVEMENT AND TYPICAL DETAILS - RAISED PAVEMEN CARDINA SHIRE YOURLAND PTY LTD	NT
CONSTRUCTION 308881CR701	Rev



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