GENERAL NOTES:

SURVEY

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA MGA 94, ZONE 55.
- 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

<u>EARTHWORKS</u>

- 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

- 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

- 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.).
- 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.
- 26. 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.
- 32. 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.
- 34. THE CONTRACTOR IS REQUIRED TO OBTAIN A 'PERMIT TO WORK' FROM MELBOURNE WATER'S SURVEILLANCE OFFICER AT THE PRE-COMMENCEMENT MEETING. THE CONTRACTOR IS REQUIRED TO ENSURE THAT THE 'PERMIT TO WORK' IS KEPT UP TO DATE FOR THE DURATION OF THE CONTRACT.



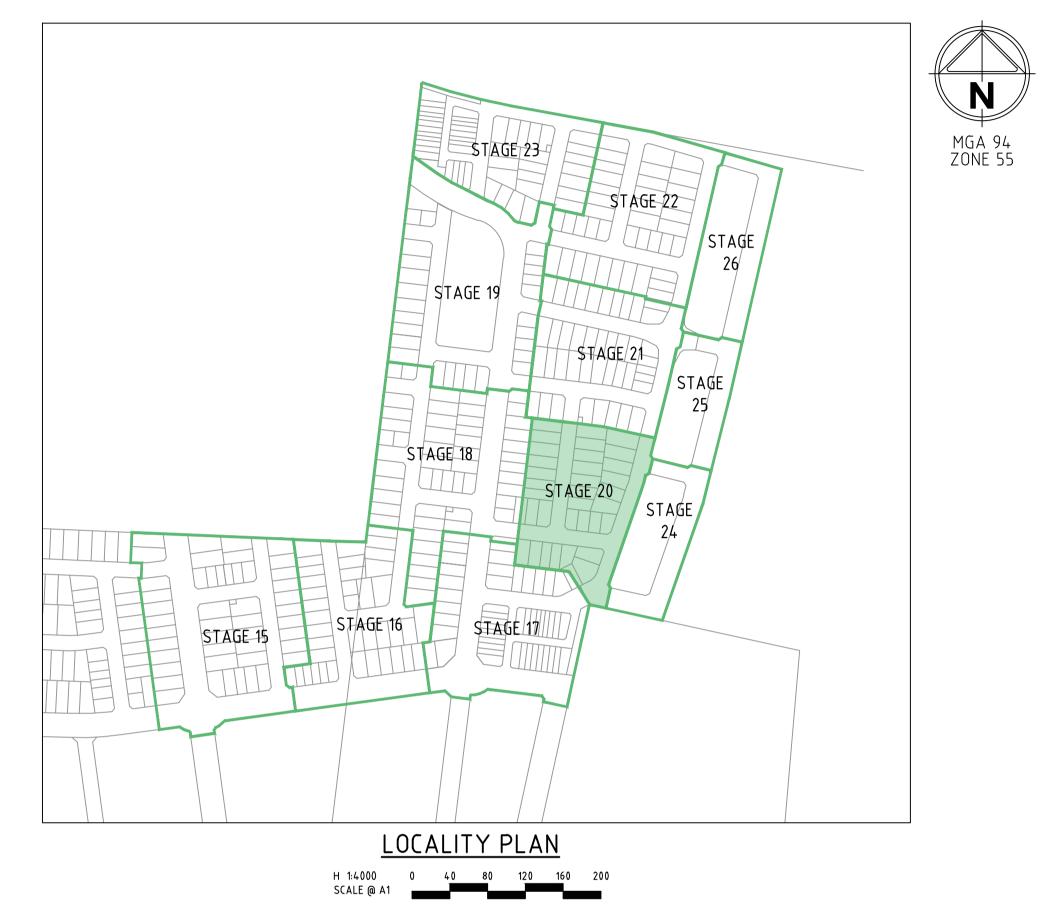
WARNING

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
С	PLASTIC PIPES ADDED & SWD LAYOUT AMENDED	MI.R	23/02/23	
В	SHEETS 201, 401, 600, 601, 700 & 800 UPDATED AS PER COUNCIL COMMENTS	MI.R	03/01/23	
А	PRELIMINARY ISSUE	MI.R	30/11/22	
Rev	Amendments	Approved	Date	



MAMBOURIN **STAGE 21** FRASER PROPERTY LTD



DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
CR100	GENERAL NOTES	1	C
CR200	FACE PLAN	2	(c)
CR201	SERVICES PLAN	3	()
CR300	RANGELAND STREET & MORANT STREET LONG SECTIONS	4	A
CR301	NURTURE STREET & MINTBUSH STREET LONG SECTIONS	5	А
CR400	RANGELAND STREET CROSS SECTIONS	6	А
CR401	MORANT STREET CROSS SECTIONS	7	В
CR402	NURTURE STREET CROSS SECTIONS	8	А
CR403	MINTBUSH STREET CROSS SECTIONS	9	А
CR500	INTERSECTION DETAILS - SHEET 1	10	А
CR501	INTERSECTION DETAILS – SHEET 2	11	А
CR502	INTERSECTION DETAILS – SHEET 3	12	А
CR600	DRAINAGE LONG SECTIONS - SHEET 1	13	$\left(\right)$
CR601	DRAINAGE LONG SECTIONS - SHEET 2	14	(()
CR700	PAVEMENT AND TYPICAL DETAILS	15	В
CR800	SIGNAGE AND LINEMARKING	16	В







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K. FEARN-WANNAN Authorised VICTORIA 8007 AUSTRALIA T 61 3 9993 7888 G. KOHLMAN ABN 55 050 029 635

Designed

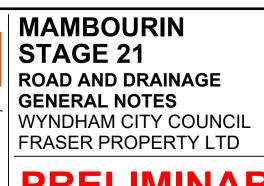


Checked G. KOHLMAN Date 03/03/23

LEGEND

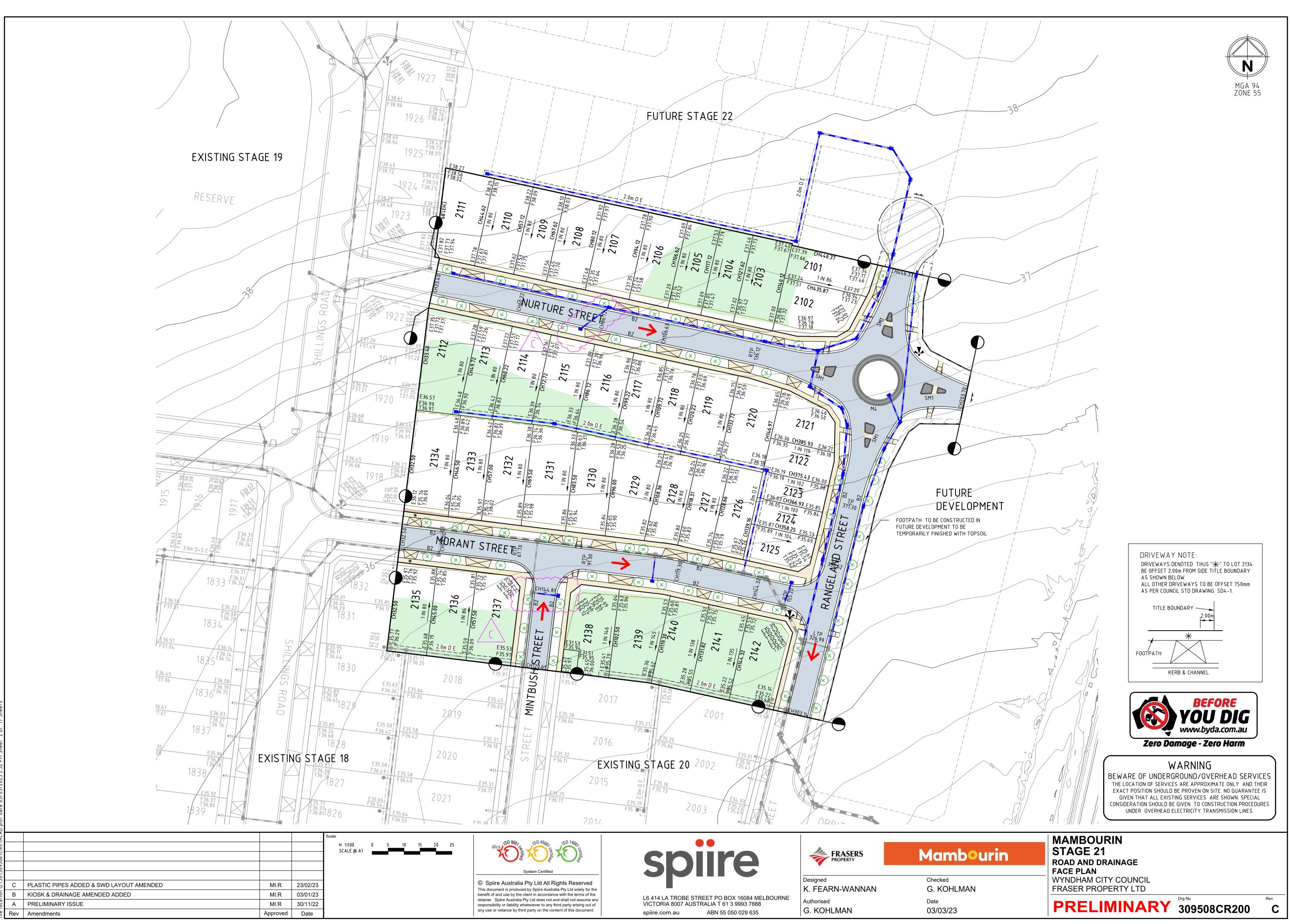
DESCRIPTION EXISTING PROPOSED WATER MAIN, VALVE AND HYDRANT — DW ——— WATER RECYCLED — — NDW — — – UNDERGROUND ELECTRICITY — — — F — — — OPTIC FIBRE — — — OF — — — — — GAS MAIN SEWER & MAINTENANCE STRUCTURE — — — S — — **O** — — — CENTRAL INVERT COUNCIL STORMWATER DRAIN AND PIT STORM WATER DRAINAGE PROPERTY INLET COUNCIL STORM WATER PITS HOUSE DRAIN AG DRAIN AND FLUSHER STORM WATER DRAINAGE PIT NUMBER (Ex.47) GAS & WATER CONDUITS — GW — — GW — \triangleright HEAVY DUTY VEHICLE CROSSING CONCRETE VEHICLE CROSSING SURFACE CONTOUR MINOR — 169.00 —— SURFACE CONTOUR MAJOR — — - 168 90 - — — — 168 90 ——— SURFACE LEVEL E123.45 F124.68 BATTER LEVEL (TOP / TOE) T124.80 T124.80 1 in 150 EARTHWORKS GRADE SIGN AND POST _ **___** LIGHT & POLE (BY OTHERS) \sim \sim STREET SIGN $^{\circ}$ ٥ PERMANENT SURVEY MARK TEMPORARY BENCH MARK BOLLARD CH1<u>16.57</u> (L/<u>R</u>)TP (L/R)TPCH1<u>16</u>.57 ROAD CHAINAGES CH116.57 CH116.57 LOT CHAINAGES CH20.06 CH20.06 $\widehat{A2}$ SETOUT POINT LIMIT OF WORKS BATTER EXCAVATION GREATER THAN 0.20m _____ FILLING GREATER THAN 0.20m ROCK BEACHING FENCE – VEHICLE EXCLUSION FENCES _____ / _____ / _____ / _____ _____/ _____ / _____ / _____ FOOTPATH FUTURE CRUSHED ROCK FOOTPATH TACTILE GROUND SURFACE INDICATOR <u>B2</u> SM2 KERB TRANSITION ROAD PAVEMENT CONCRETE PAVEMENT HEAVY DUTY CONCRETE PAVEMENT





PRELIMINARY 309508CR100

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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

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MAMBOURIN **STAGE 21** ROAD AND DRAINAGE SERVICES PLAN WYNDHAM CITY COUNCIL

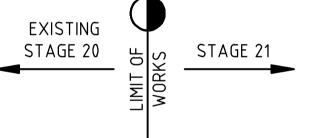
FRASER PROPERTY LTD

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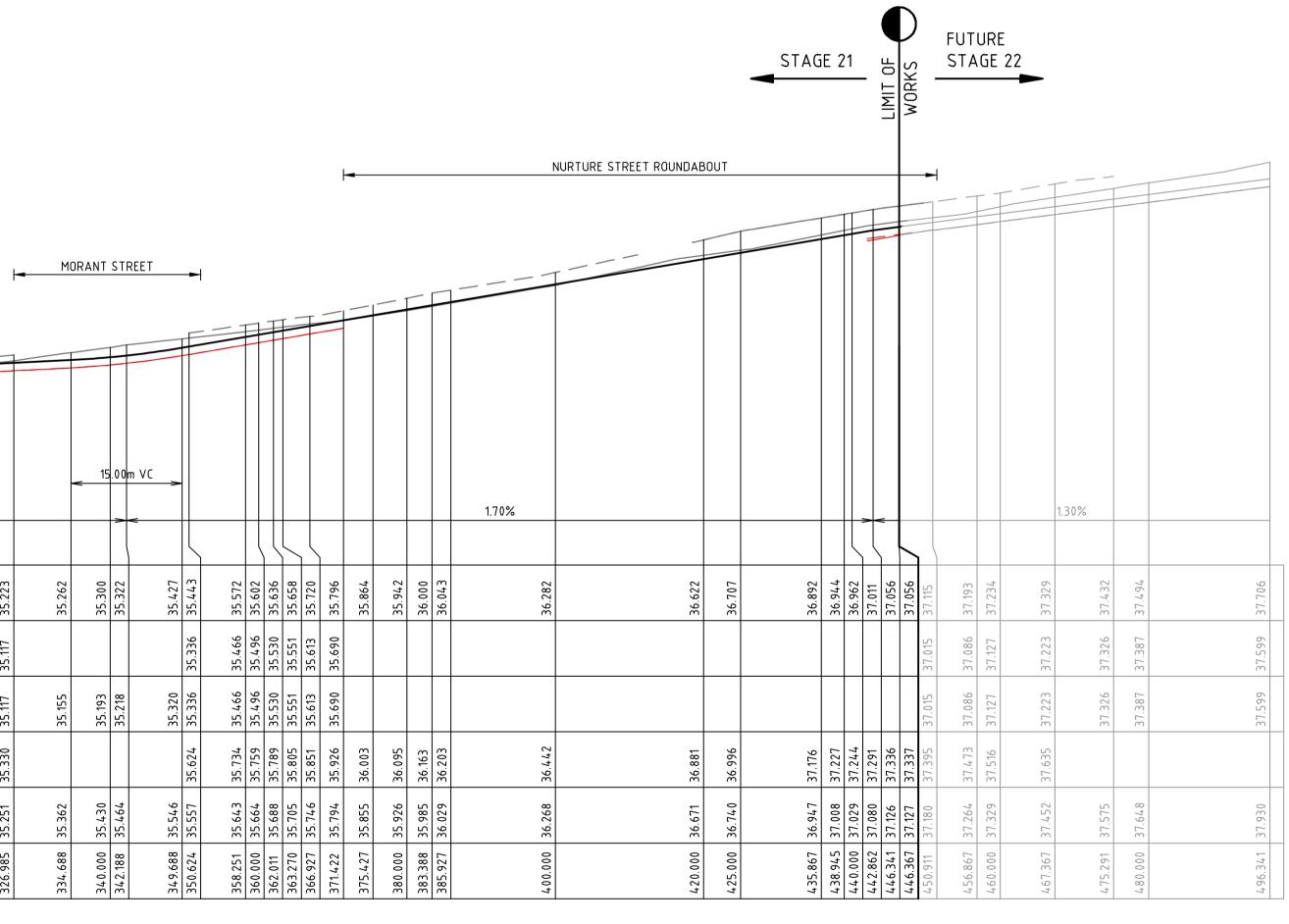
RANGELAND STREET

VERTICAL GEOMETRY																
DESIGN GRADELINE						-0.50%	6						_	0.50%		
DATUM RL 32.5	-								Ľ	\square			5	1		
DESIGN CENTRELINE	35.187	35.177	35.163	35.153	35.145	35.093	35.053	35.027	35.023	35.021	35.088	35.103	35.104	35.188	35.223	
LEFT DESIGN LIP OF KERB	35.080	35.070	35.057	35.046	35.038	34.987	34.946	34.920	34.917	34.914	34.982	34.996	34.997	35.082	35.117	
RIGHT DESIGN LIP OF KERB	35.080	35.070	35.057	35.046	35.038	34.987	34.946	34.920	34.917	34.914	34.982	34.996	34.997	35.082	35.117	
EX SURFACE LEFT BOUNDARY	34.978	34.970	34.961	34.953	34.950	34.931	34.960	35.008	35.014	35.019	35.120	35.145	35.14.7	35.269	35.330	
EX SURFACE RIGHT BOUNDARY	34.696	34.697	34.699	34.701	34.708	34.780	34.844	34.879	34.883	34.886	34.982	35.009	35.011	35.180	35.251	
CHAINAGE	253.138	255.213	257.897	260.000	261.608	271.904	280.000	285.208	285.911	286.433	300.000	302.919	303.142	320.000	326.985	



MORANT STREET

				STING GE 19	WORKS	ST.	AGE 2	21			<mark> ⊲</mark> MII	NTBUSH STF	REET	ł													
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VERTICAL GEOMETRY																											
DESIGN GRADELINE	-3.33%	-1.53%	><	-0.	50%		-><		0.50%		-><		-0.50)%						0.50%		><		-0.50%			->
DATUM RL 33.0)		\downarrow						\rightarrow		$\left\{ \right\}$			\square		\square	\			
DESIGN CENTRELINE	35.904 35.819	35.636	35.610 35.591		35.529	35.491	35.466 35.474		35.526 35.526	35.541	35.579 35.578 35.569	35.516 35.499	35.460	35.436	35.416 35.41	35.374	35.354	35.361	35.383 25.200	35.388 35.391 35.426	~ It	35.450 35.450	35.445 35.441 35.441	614).CC	35.341		35.304
LEFT DESIGN LIP OF KERB		35.529	35.503 35.484		35.422	35.384	35.359 35.367		35.419 35.72	35.434	35.472 35.471 35.462	35.409 35.392	35.353	35.329	35.309 35 30/	35.268	35.247	35.264	35.276	35.282 35.284 35.319	328.62 DE 260	35.343	35.339 35.334 35.334	<u>دا ک. دک</u> ۲۰ عد			
RIGHT DESIGN LIP OF KERB		35.529	35.503 35.484		35.422	35.384	35.359 35.367		35.419 35.72	35.434	35.472 35.471		35.353	35.329	35.309 35.309	35.268	35.247 25.247	35.264 35.264	35.276 35.276	35.282 35.284 35.319	<u>77</u>	35.343	35.339 35.334	212.62 عد عد			
EX SURFACE LEFT BOUNDARY		36.234	36.219 36.185		36.115	36.079	36.050 36.041		35.969 35.966	35.947	35.897 35.896 35.892	35.868 35.863	35.853	35.844	35.836 35 837	35.817	35.821	לו8.ל <u>5</u> 35.807	35.796 25.700	35.790 35.788 35.753 35.753	247.65 DD 700	35.678	35.672 35.667	840.cč			
EX SURFACE RIGHT BOUNDARY		36.086	36.073 36.046		35.971	35.913	35.884 35.876		35.818 35.81/	35.796	35.754 35.753		35.683	35.661	35.645 35.643	35.614	35.597	35.584	35.575	35.570 35.567 35.532 35.532	522.65 25 / 05	35.480	35.476 35.472 35.472	264.6 <u>6</u> 565.36			
CHAINAGE	0.000 2.550	14.500	16.209 20.000		32.500	40.000	45.000 46.500		57.000 57.500	60.000	67.500 67.700 69.500	80.000 83.500	91.300	96.000	100.000	108.364	112.500	114.006 115.950	118.312	119.453 120.000 126.935	כל6.821 ממת זכו	138.309	139.155 14.0.000	144.319 15E 100	160.000		167.371









Mambourin

Designed K. FEARN-WANNAN Authorised

Checked G. KOHLMAN Date 03/03/23

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

G. KOHLMAN



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NURTURE STREET

		EXISTING STAGE 19	LIMIT OF WORKS	STAGE 21															STAGE 2		KS 	FUTURE STAGE		
									- II- —								RANGELAND STRE	ET ROUNI	DABOUT					
																	T							
VERTICAL GEOMETRY																			0 5 19/		~	5.00m VC	->	<pre>/</pre>
DESIGN GRADELINE	-3.53% 1.00%							-0.809	6								>	<	-0.51%	>	-1.50%	` <u>></u> <	-3.00%	
DATUM RL 33.5				9 6 6		10 10				~ 6								6						
DESIGN CENTRELINE	37.751 37.661 37.689 37.689 37.723 37.729 37.729	37.730 37.729 37.706 37.704		37.546 37.509 37.469	37.409 37.386 37.385	37.325 37.285	37.226 37.225 37.173	37.113	37.073 37.066	31.013 36.989	36.929 36.906	36.905 36.845	36.805	36.745	36.691	36.58(36.460	36.43		36.338 36.319	36.316	36.158 36.094	35.973 35.961 35.854	35.592
LEFT DESIGN LIP OF KERB		37.600 37.597	.1	37.440 37.403 37.362	37.303 37.280 37.278	37.219 37.178	37.120 37.119 37.066	37.007	36.966 36.960	36.907 36.882	36.823 36.800	36.798 36.739	36.698										35.867 35.854	
RIGHT DESIGN LIP OF KERB		37.600 37.597	49	37.440 37.403 37.362	37.303 37.280 37.278	37.219 37.178	37.120 37.119 37.066	37.007	36.966	36.907 36.882	36.823 36.800	36.798 36.739	36.698										35.867 35.854	
EX SURFACE LEFT BOUNDARY		37.969 37.927 37.924	00 00	37.796 37.781 37.729	37.623 37.593 37.592	37.564 37.534	37.484 37.483 37.483 37.424	37.352	37.291 37.282	37.201 37.164	37.085 37.056	37.053 37.018	37.016											
EX SURFACE RIGHT BOUNDARY	37.639	37.628 37.605 37.554 37.551	37.376 37.353	37.321 37.303 37.284	37.239 37.219 37.217	37.174 37.157	37.132 37.131 37.093	37.021	36.955	36.881 36.850	36.805 36.786		36.749											
CHAINAGE		13.657 15.304 20.000 20.324	31.890 33.397	40.000 44.620 49.716	57.120 60.000 60.216	67.621 72.716	80.000 80.121 86.716	94.122		106.622 109.716	117.123 120.000				146.967 1/ 8 Ac /	4c0.841	175.851	180.000		200.000 203.697	204.245 205.417	212.917 215.584	220.000 220.417 223.994	232.704

MINTBUSH STREET

										STING GE 20	MODKS	STAGE 2	21			
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DATUM RL 33.0 DESIGN CENTRELINE	36.099	36.052	36.044	36.042	35.982	35.972	35.952	35.919	35.910	35.852	35.849	7177 35.777	35.731	35.693	35.648	
LEFT DESIGN LIP OF KERB	35.993	35.946	35.938	35.936	35.875	35.866	35.846	35.813	35.803	35.746	35.743	35.671	35.625	35.582	35.541	
RIGHT DESIGN LIP OF KERB	35.993	35.946	35.938	35.936	35.875	35.866	35.846	35.813	35.803	35.746	35.743	35.671	35.625	35.582	35.541	
EX SURFACE LEFT BOUNDARY	35.237	35.297	35.306	35.308	35.361	35.371	35.394	35.434	35.447	35.522	35.526	35.627	35.662	35.682	35.704	
EX SURFACE RIGHT BOUNDARY	35.175	35.236	35.249	35.252	35.323	35.332	35.353	35.381	35.390	35.461	35.467	35.584	35.616	35.631	35.771	
CHAINAGE	70.610	80.000	81.610	82.000	94.110	96.000	100.000	106.610	108.500	120.000	120.610	134.976	14.0.000	142.476	144.810	









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



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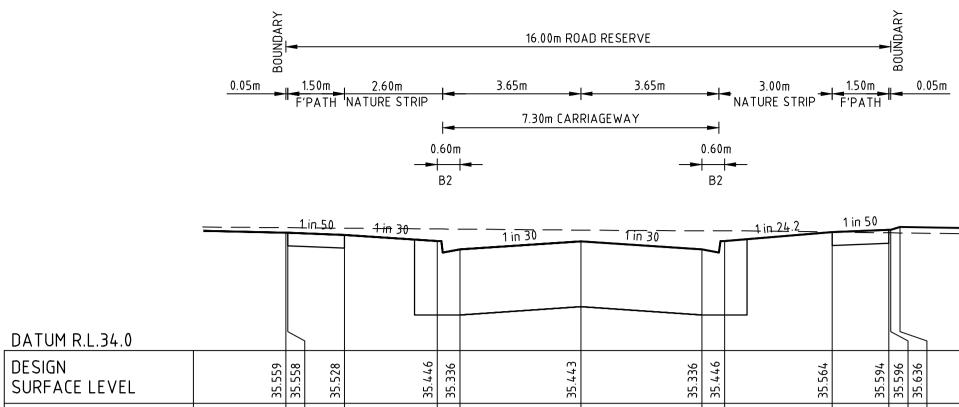
Designed K. FEARN-WANNAN Authorised G. KOHLMAN Checked G. KOHLMAN Date 03/03/23





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.

STRUCTURAL FILL IN ACCORDANCE WITH AS3798-2007, LEVEL 1



RANGELAND STREET

35.624 35.624

-7.750

32

-6.250

DESIGN

EXISTING

OFFSET

SURFACE LEVEL

CH 350.62

		1 in 6	1 in	50	<u> 1 in 30 </u>		— — 1 i n 30 — — —	1-in-30		1 in 19.8	1 in 50 ^)	
DATUM R.L.33.0			\leq									\leq	\leq	
DESIGN SURFACE LEVEL	35.507	35.340	35.338	35.308	35.227	35.117	35.223	35.117	35.227	35.371	35.401	35.402	35.488	
EXISTING SURFACE LEVEL	35.336	35.330	35.330	35.321	35.309	35.306	35.289	35.273	35.270	35.255	35.251	35.251	35.250	
OFFSET	-8.800	-7.800	-7.750	-6.250	-3.800	-3.200	0.00.0	3.200	3.800	6.650	8.150	8.200	8.715	

35.608 35.605

-3.800 -3.200

RANGELAND STREET

CH 326.99

		1 in 6	1	in 50	<u>1 in 30</u>		1 i <u>n 30</u>	<u>1 in 30</u>		1 in 16.7	1 in 50		6	
DATUM R.L.33.0			$ \ \ \ \ \ \ \ \ \ \ \ \ \ $)
DESIGN SURFACE LEVEL	35.486	35.221	35.219	35.189	35.107	34.997	35.104	766.48	35.107	35.278	35.308	35.309	35.441	
EXISTING SURFACE LEVEL	35.158	35.14.7	35.146	35.136	35.119	35.114	35.092	35.061	35.055	35.026	35.012	35.011	35.004	
OFFSET	-9.394	-7.800	-7.750	-6.250	-3.800	-3.200	0.000	3.200	3.800	6.650	8.150	8.200	8.992	

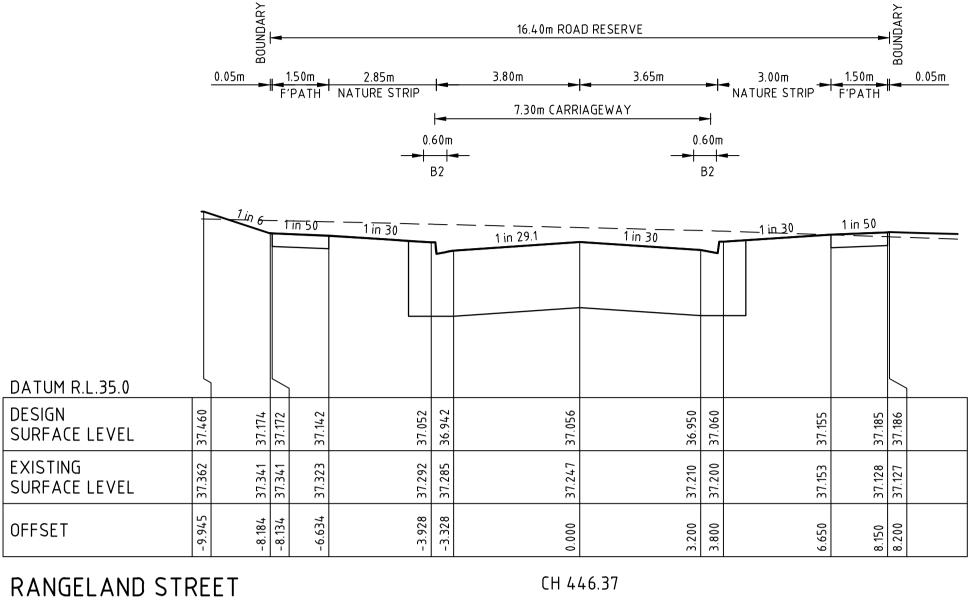
RANGELAND STREET

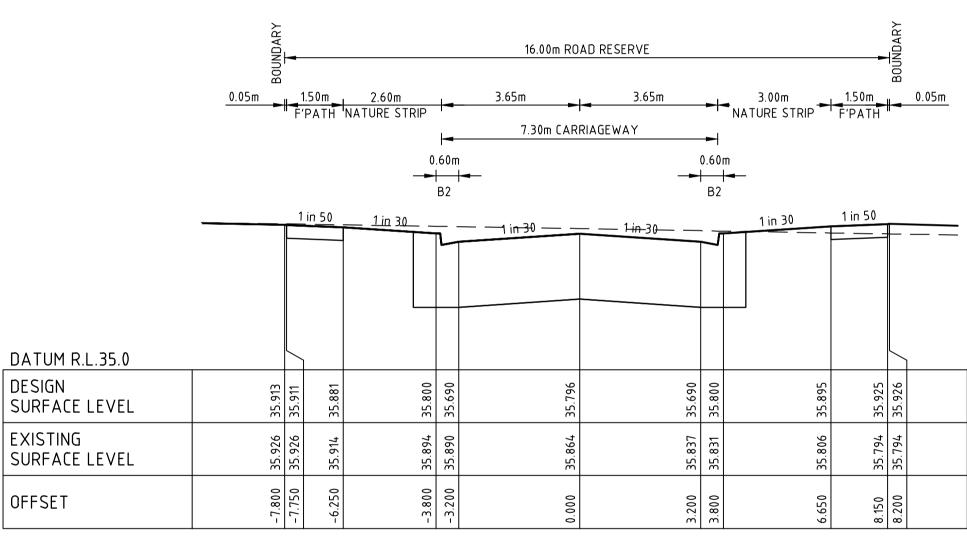
CH 303.14

file name 309508CR400.dwg layout name CR400 plotted by Kirsten Fearn-Wannar	file location G:\30\309508\Civil\ACAD plot date 03/03/2023 2:52 PM Sheet 6 of
file name 309508CI	file location G:\30

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	Rev	Amendments	Approved	Date									any

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35.336	35.446		35.564	35.594	35.596	35.636	
35.584	35.583		35.567	35.557	35.557	35.555	
3.200	3.800		6.650	8.150	8.200	8.441	





RANGELAND STREET



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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



Mambourin

Designed K. FEARN-WANNAN Authorised G. KOHLMAN

Checked G. KOHLMAN Date 03/03/23

CH 371.42

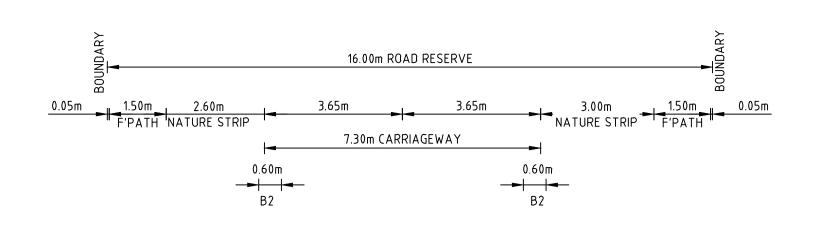


Rev

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.



STRUCTURAL FILL IN ACCORDANCE WITH AS3798-2007, LEVEL 1



	=	1 in_6_	1	in 50	1 in 30		 1 in 30	1 in 30			1 in_50	
								111.50				
DATUM R.L.34.0												
DESIGN SURFACE LEVEL	35.990	35.701	35.699	35.669	101	10C.CC 35.471	35.578	35.471	35.581	35.669	35.699	
EXISTING SURFACE LEVEL	35.913	35.896	35.896	35.881		35.850	35.821	35.793	35.788	35.766	35.754	
DFFSET	-9.737	-8.000	-7.950	-6.450		-3.200	0.000.0	3.200	3.800	6.450	7.950	

MORANT STRFFT

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CH 67.70

35.699 35.701

754 753

7.950 8.000

35.716 35.718 35.825

884 884 877

7.950 8.000 8.640

758 760 925

35. 35.

35.972 35.971 35.962

7.950 8.000 8.992

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1 in 13.5

35.

36.011 36.007

3.200 3.800

1 in 12.2

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	Ī	Tin 6	1	in 50	<u>1 in 12.2</u>	_		1 in 30	1 in 30	
DATUM R.L.34.0]						
DESIGN SURFACE LEVEL	36.036	35.718	35.716	35.686		35.469	35.359	35.466	35.359	
EXISTING SURFACE LEVEL	36.069	36.050	36.050	36.034		36.007	36.001	35.968	35.934	
OFFSET	-9.906	-8.000	-7.950	-6.450		-3.800	-3.200	0.000	3.200	

MORANT STREET

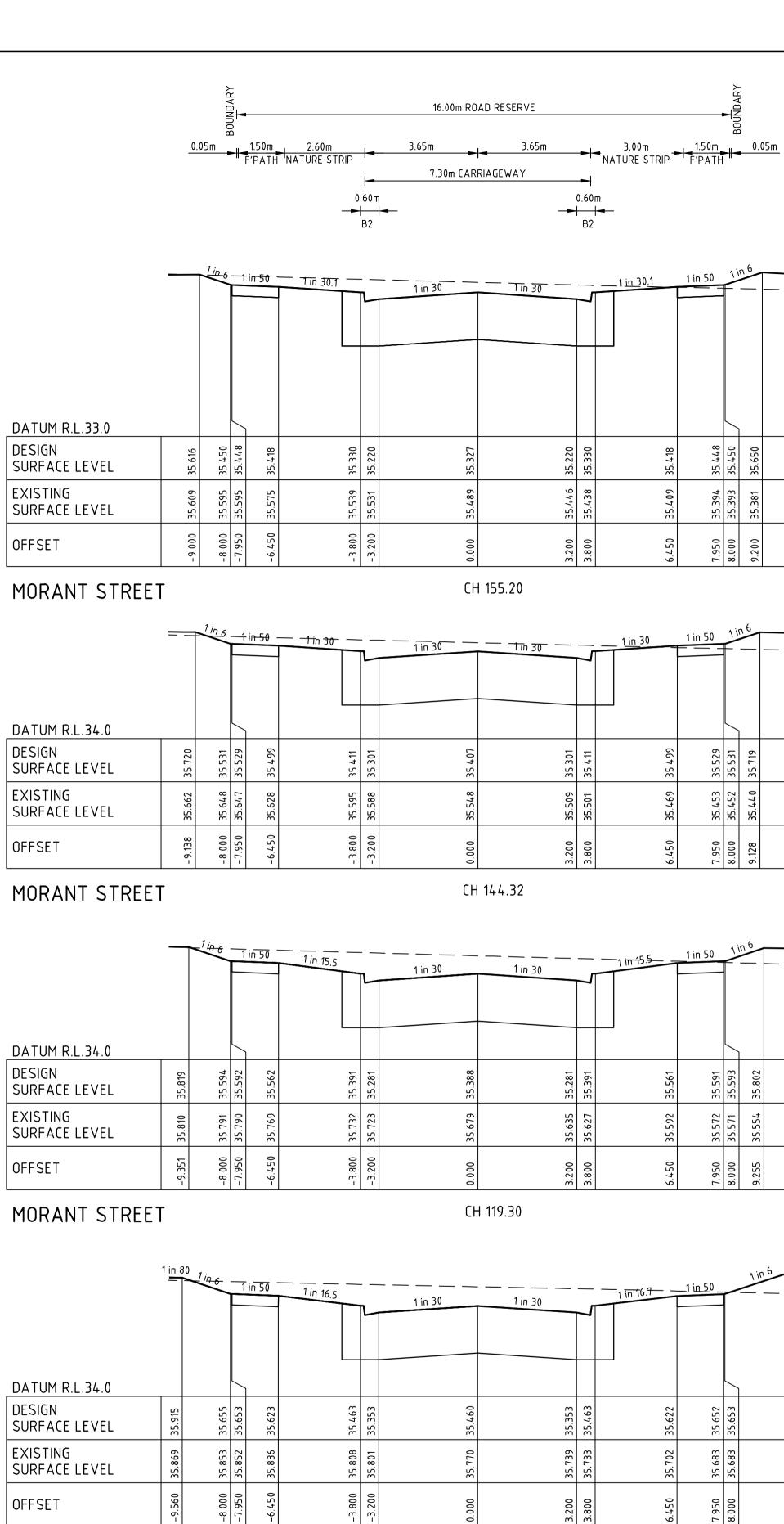
CH 45.00

CH 32.50

		Tin 6	1	in 50	1 in 13.5			
							1 in 30 EXISTING	1 in 30
DATUM R.L.34.0]					USTING	
DESIGN SURFACE LEVEL	36.093	35.760	35.758	35.728	35 532	200.00	35.529 BX 335.529	
EXISTING SURFACE LEVEL	36.136	36.115	36.115	36.100	2013	24.067	36.037	
OFFSET	-10.000	- 8.000	-7.950	-6.450	008 6 -	000 8-	0.000.000.000.000.0000.0000.0000.0000.0000	

MORANT STREET

H 1:100 0 1 2 3 4 5 SCALE @ A1 System Certified © Spiire Australia Pty Ltd All Rights Reserved This document is produced by Spiire Australia Pty Ltd solely for the B NATURE STRIP GRADES UPDATED MI.R 03/01/23 benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any A PRELIMINARY ISSUE MI.R 30/11/22 responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document. Approved Date Rev Amendments



MORANT STREET

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Designed

Authorised

G. KOHLMAN

K. FEARN-WANNAN

mi mi

Mambourin

Checked G. KOHLMAN Date 03/03/23

DATUM R.L.34.0 DESIGN SURFACE LEVEL EXISTING

	4 . 50	1 in 6	
<u>in 30,1</u>	1 in 50	\sim	
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35.418	44	35.450 35.650	
35.	35.448	35.450 35.650	
6		- m	
35.409	35.394	35.393 35.381	
S.	35.	35.393 35.381	
6.450	7.950	8.000 9.200	
6.4	7.9	8.C 9.2	

<u>1 in 30</u>	1 in 50	11	n 6	
35.499	35.529	35.531	35.719	
35.469	35.453	35.452	35.440	
6.450	7.950	8.000	9.128	

i <del>n 15.5</del>	1 in 50	11	n 6	
			1	
35.561	35.591	35.593	35.802	
35.592	35.572	35.571	35.554	
6.450	7.950	8.000	9.255	

in 16.7	1 i <u>n 5</u> 0		1 in 6	
			1	
35.622	35.652	35.653	36.070	
35.702	35.683	35.683	35.652	
6.450	7.950	8.000	10.500	



MAMBOURIN **STAGE 21** ROAD AND DRAINAGE MORANT STREET CROSS SECTIONS WYNDHAM CITY COUNCIL FRASER PROPERTY LTD

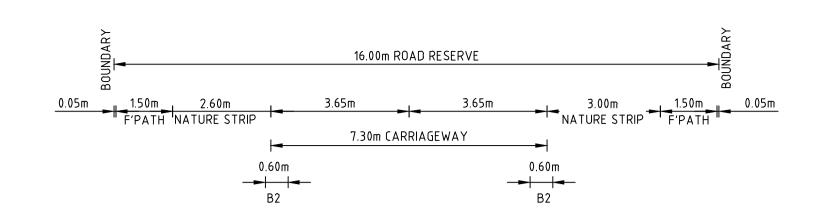
PRELIMINARY 309508CR401

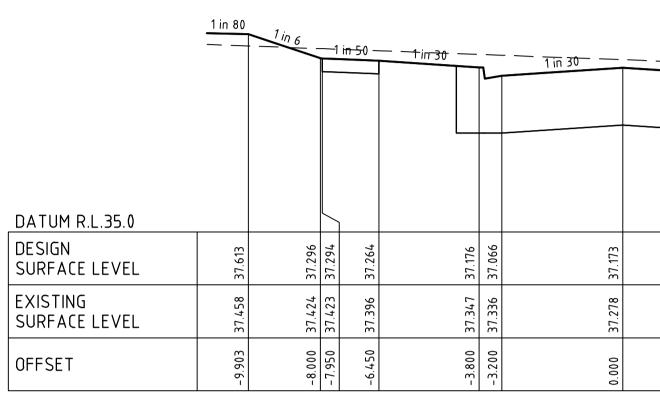
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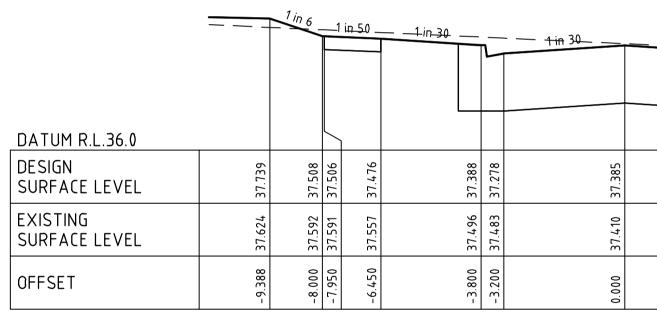
STRUCTURAL FILL IN ACCORDANCE WITH AS3798-2007, LEVEL 1





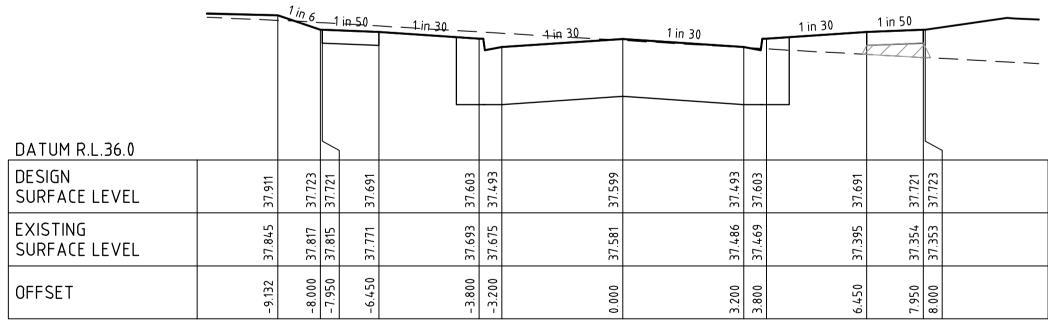
# NURTURE STREET

CH 86.72



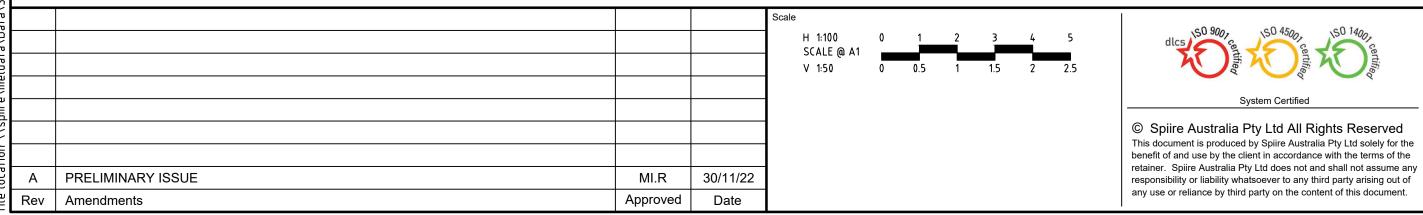
# NURTURE STREET

CH 60.22



NURTURE STREET

CH 33.40



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L6 414 LA TROBE STREET PO BOX 16084 MELBOURNE

ABN 55 050 029 635



K. FEARN-WANNAN

Designed

Authorised

G. KOHLMAN



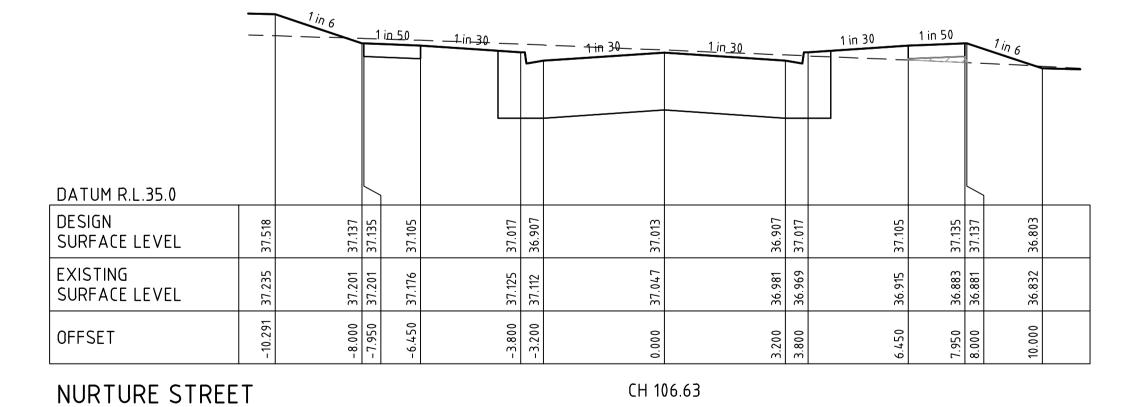
Checked G. KOHLMAN Date 03/03/23

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37.493	37.603			37.691	37.721	37.723	
37.	37.			37.	37.	37.	
86	69			95	54	53	
37.486	37.469			37.395	37.354	37.353	
00	00			50	50	00	

	37.278	37.388	37.476	37.506	37.508	37.175	
	37.337	37.323	37.260	37.219	37.217	37.162	
	3.200	3.800	6.450	7.950	8.000	10.000	
22							

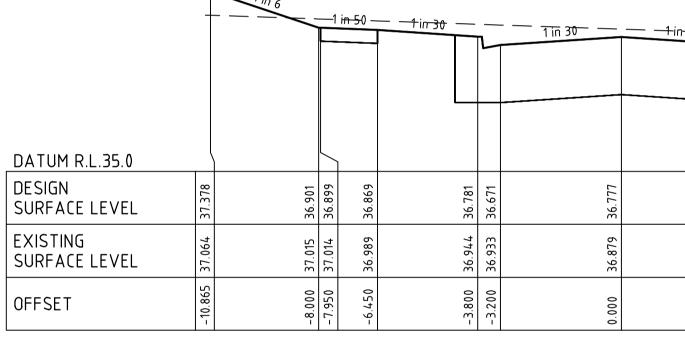
<u>1 in 30</u>		1 in 30		1 in 50		1 in 6	
37.278	37.388		37.476	37.506	37.508	37.175	
37.337	37.323		37.260	37.219	37.217	37.162	
00	00		50	20	00	00	

<u>-1-in-30</u>	— n	 1 in 30		1 in 50		1 in 6	1 :- 00
						_	1.in <u>80</u>
37.066	37.176		37.264	37.294	37.296	36.963	
37.207	37.193		37.132	37.094	37.093	37.033	
3.200	3.800		6.450	7.950	8.000	10.000	



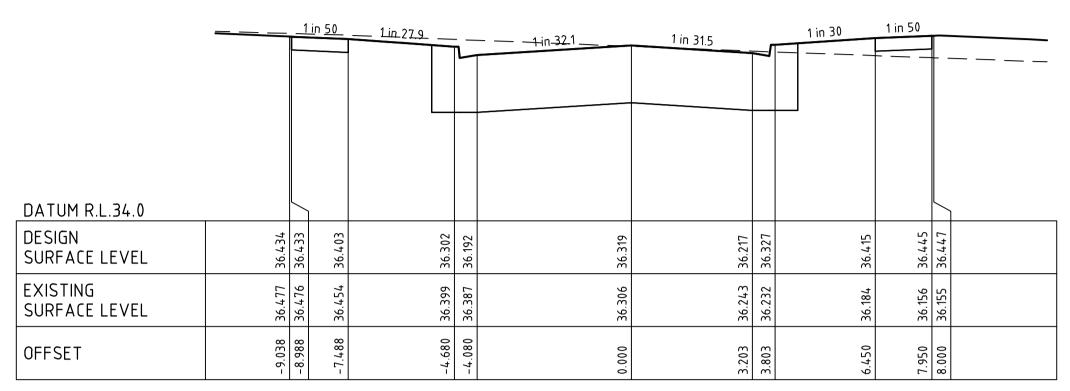
# NURTURE STREET

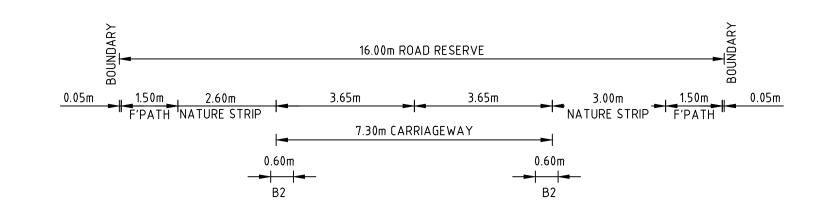
CH 136.12



# NURTURE STREET

CH 203.70





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36.671	36.781			36.869	36.899	36.901	36.567	
36.830	36.820			36.769	36.74.0	36.739	36.696	
3.200	3.800			6.450	7.950	8.000	10.000	



MAMBOURIN **STAGE 21** ROAD AND DRAINAGE NURTURE STREET CROSS SECTIONS WYNDHAM CITY COUNCIL FRASER PROPERTY LTD

PRELIMINARY 309508CR402

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STRUCTURAL FILL IN ACCORDANCE WITH AS3798-2007, LEVEL 1

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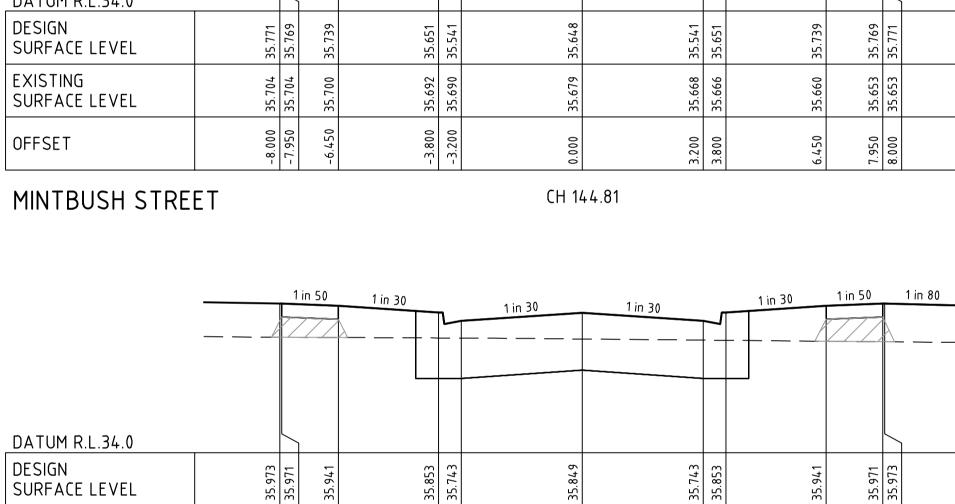
OFFSET

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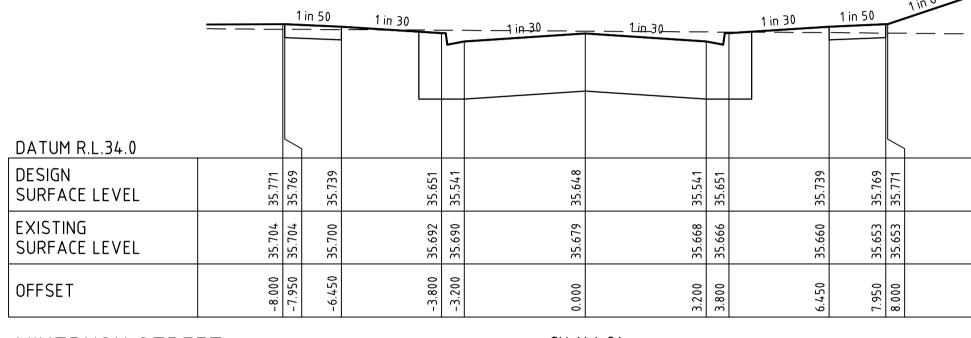
MINTBUSH STREET

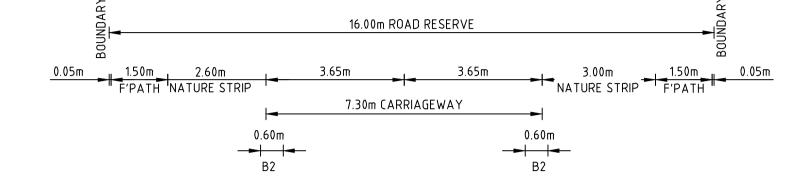
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L6 414 LA TROBE STREET PO BOX 16084 MELBOURNE VICTORIA 8007 AUSTRALIA T 61 3 9993 7888 ABN 55 050 029 635 spiire.com.au



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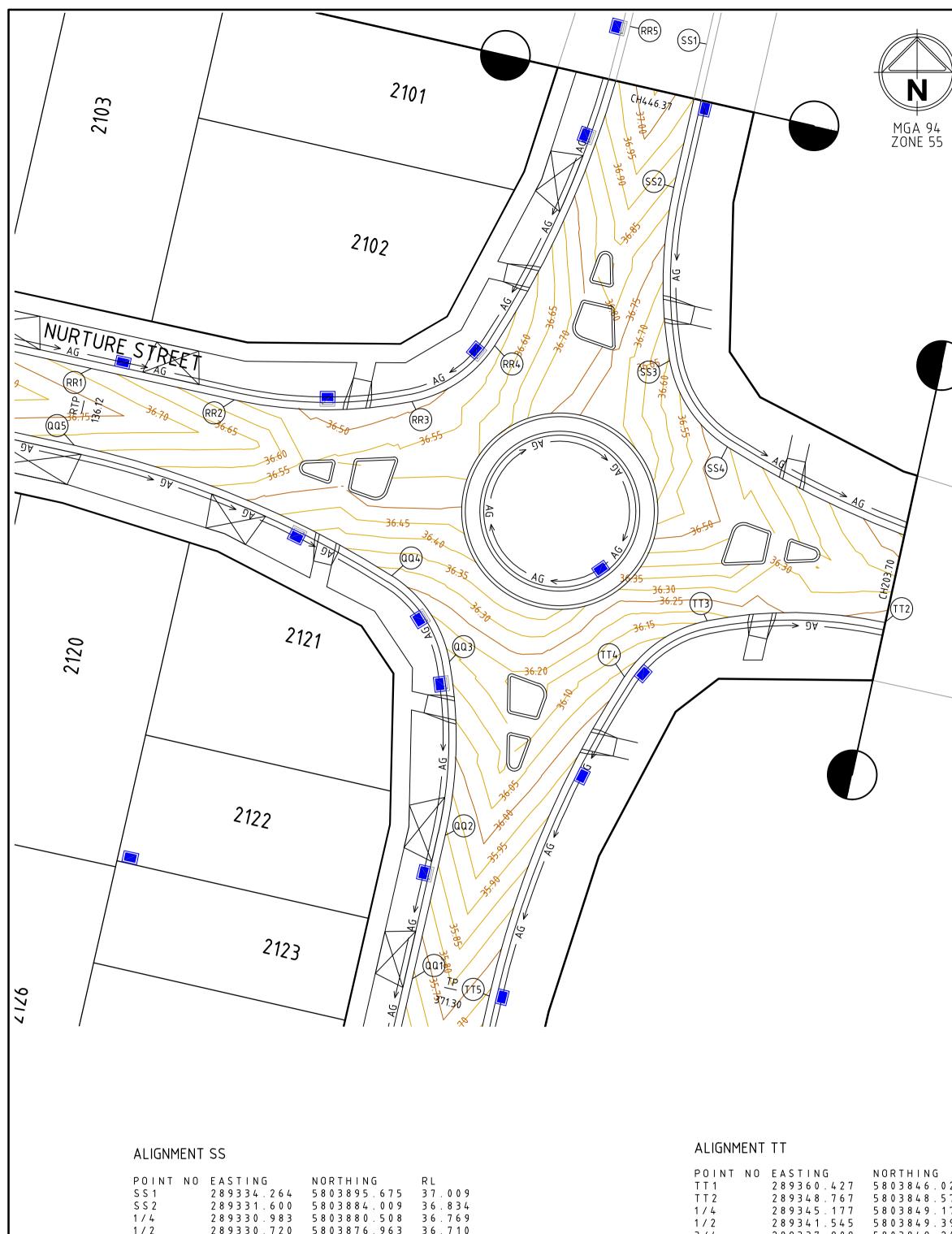
Designed K. FEARN-WANNAN Authorised G. KOHLMAN

Checked G. KOHLMAN

Date 03/03/23

CH 120.61





ALIGNMENT	SS				ALIGNMENT	TT			
POINT NO SS1 SS2 1/4 1/2 3/4 SS3 1/4 SS3 1/4 1/2 3/4 SS4 1/4 1/2 3/4 SS4 1/4 SS5 5	$ \begin{bmatrix} A & S & T & I & N & G \\ 2 & 8 & 9 & 3 & 3 & 4 & . & 2 & 6 & 4 \\ 2 & 8 & 9 & 3 & 3 & 1 & . & 6 & 0 & 0 \\ 2 & 8 & 9 & 3 & 3 & 0 & . & 9 & 8 & 3 \\ 2 & 8 & 9 & 3 & 3 & 0 & . & 7 & 2 & 0 \\ 2 & 8 & 9 & 3 & 3 & 0 & . & 8 & 1 & 4 \\ 2 & 8 & 9 & 3 & 3 & 1 & . & 2 & 6 & 2 \\ 2 & 8 & 9 & 3 & 3 & 1 & . & 8 & 6 & 2 \\ 2 & 8 & 9 & 3 & 3 & 1 & . & 8 & 6 & 2 \\ 2 & 8 & 9 & 3 & 3 & 1 & . & 8 & 6 & 2 \\ 2 & 8 & 9 & 3 & 3 & 4 & . & 2 & 6 & 3 \\ 2 & 8 & 9 & 3 & 3 & 5 & . & 9 & 6 & 2 \\ 2 & 8 & 9 & 3 & 4 & 8 & . & 4 & 1 & 4 \\ 2 & 8 & 9 & 3 & 6 & 1 & . & 7 & 9 & 4 \\ \end{bmatrix} $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	R L 3 7 . 0 0 9 3 6 . 8 3 4 3 6 . 7 6 9 3 6 . 7 1 0 3 6 . 6 5 3 3 6 . 5 9 5 3 6 . 5 6 0 3 6 . 5 2 4 3 6 . 4 8 9 3 6 . 4 5 4 3 6 . 3 4 0 3 6 . 2 2 6 3 6 . 1 2 0 3 5 . 9 8 8		POINT NO TT1 TT2 1/4 1/2 3/4 TT3 1/4 1/2 3/4 TT4 1/2 3/4 TT4 1/4 1/2 3/4 TT5	$ \begin{array}{c} {\sf E} \; {\sf A} \; {\sf S} \; {\sf T} \; {\sf I} \; {\sf N} \; {\sf G} \\ {\sf 2} \; {\sf 8} \; {\sf 9} \; {\sf 3} \; {\sf 6} \; {\sf 0} \; . \; {\sf 4} \; {\sf 2} \; {\sf 7} \\ {\sf 2} \; {\sf 8} \; {\sf 9} \; {\sf 3} \; {\sf 4} \; {\sf 8} \; . \; {\sf 7} \; {\sf 6} \; {\sf 7} \\ {\sf 2} \; {\sf 8} \; {\sf 9} \; {\sf 3} \; {\sf 4} \; {\sf 5} \; . \; {\sf 1} \; {\sf 7} \; {\sf 7} \\ {\sf 2} \; {\sf 8} \; {\sf 9} \; {\sf 3} \; {\sf 4} \; {\sf 5} \; . \; {\sf 1} \; {\sf 7} \; {\sf 7} \\ {\sf 2} \; {\sf 8} \; {\sf 9} \; {\sf 3} \; {\sf 4} \; {\sf 1} \; . \; {\sf 5} \; {\sf 4} \; {\sf 5} \\ {\sf 2} \; {\sf 8} \; {\sf 9} \; {\sf 3} \; {\sf 3} \; {\sf 4} \; . \; {\sf 3} \; {\sf 0} \; {\sf 8} \\ {\sf 2} \; {\sf 8} \; {\sf 9} \; {\sf 3} \; {\sf 3} \; {\sf 4} \; . \; {\sf 3} \; {\sf 0} \; {\sf 8} \\ {\sf 2} \; {\sf 8} \; {\sf 9} \; {\sf 3} \; {\sf 3} \; {\sf 2} \; . \; {\sf 3} \; {\sf 1} \; {\sf 7} \\ {\sf 2} \; {\sf 8} \; {\sf 9} \; {\sf 3} \; {\sf 2} \; {\sf 2} \; {\sf 3} \; {\sf 1} \; {\sf 7} \\ {\sf 2} \; 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C U R V E S S 2 – S S 3 S S 3 – S S 4 S S 4 – S S 5	35.450 14 10.450 8	CLCHORD . 22614.131 . 6728.425 . 06927.927	MID ORD 0.711 0.887 1.221	Q T R O R D - 0.178 - 0.224 - 0.306	C U R V E T T 2 – T T 3 T T 3 – T T 4 T T 4 – T T 5	35.450 14 10.450 8	RCLCHORD +.56214.460 3.3408.120 3.37528.229	MID ORD 0.745 0.821 1.248	Q T R O R D - 0 . 187 - 0 . 207 - 0 . 313



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Designed K. FEARN-WANNAN Authorised

G. KOHLMAN

STAGE 21

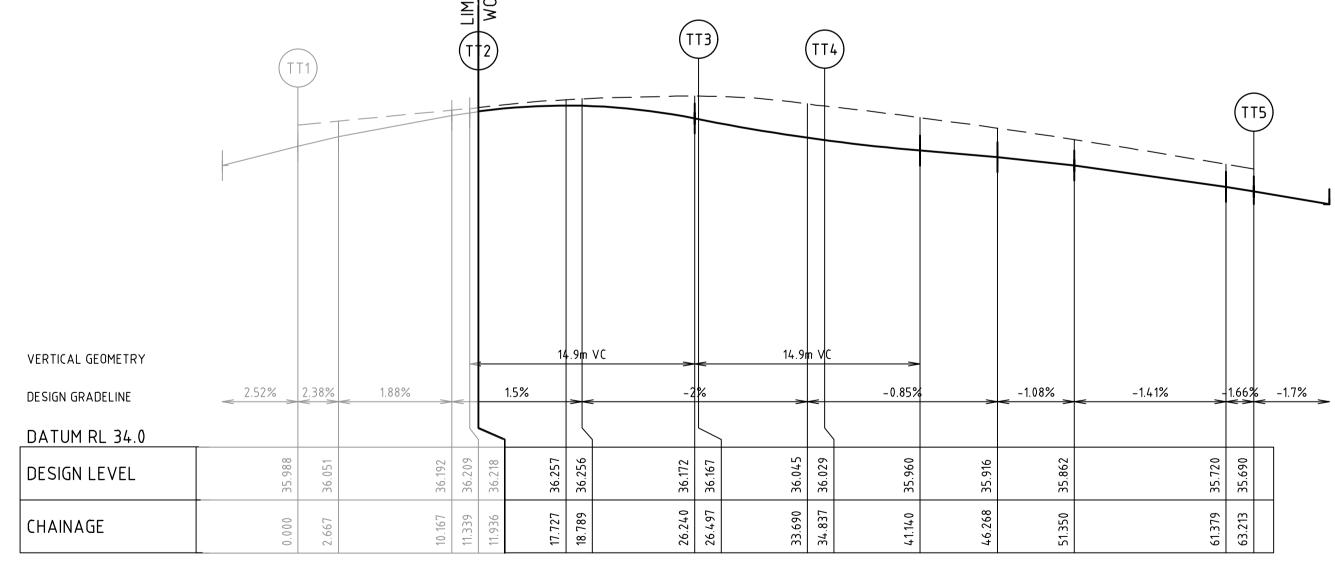
FUTURE

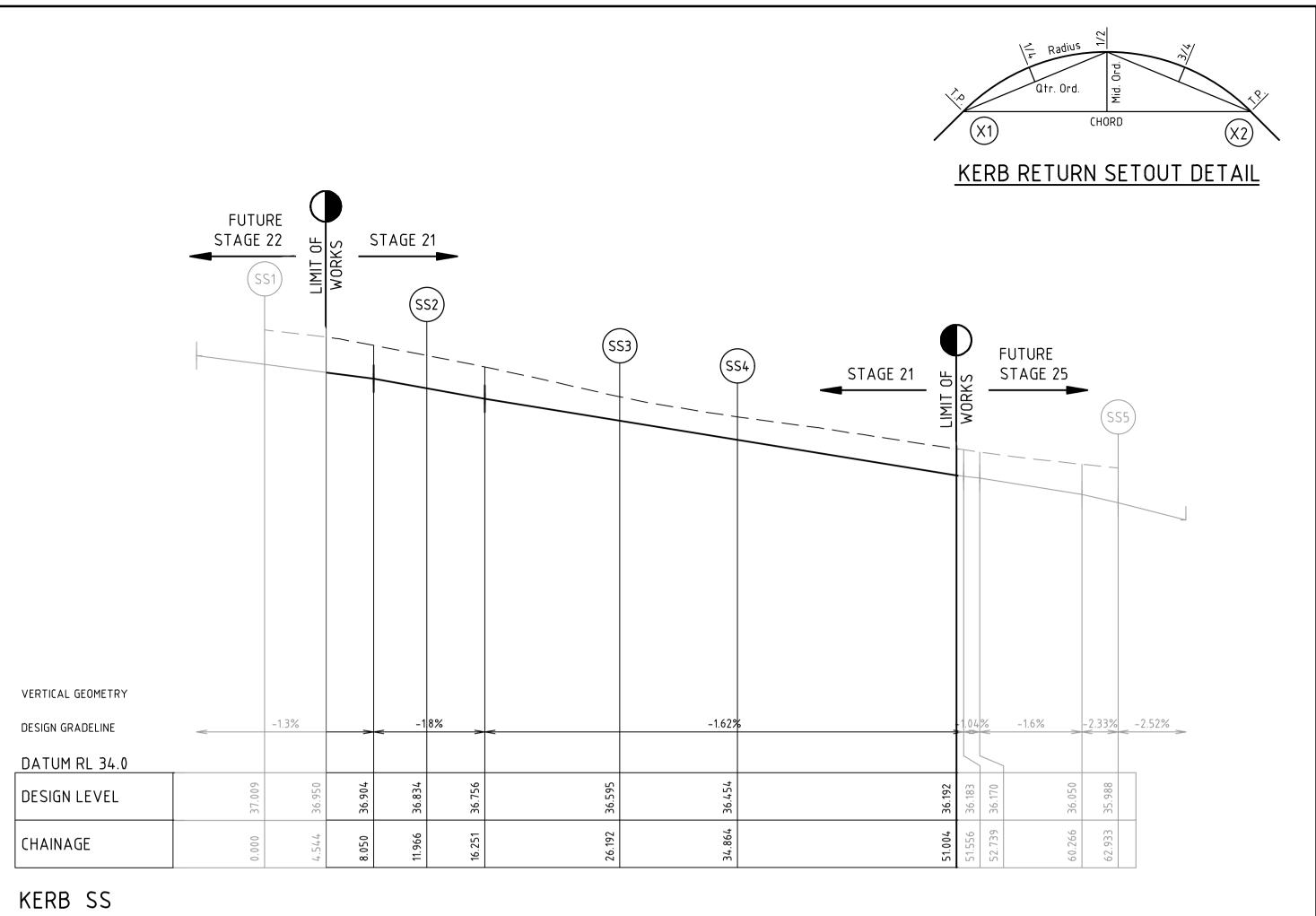
STAGE 25

# Mambourin

Checked G. KOHLMAN Date 03/03/23





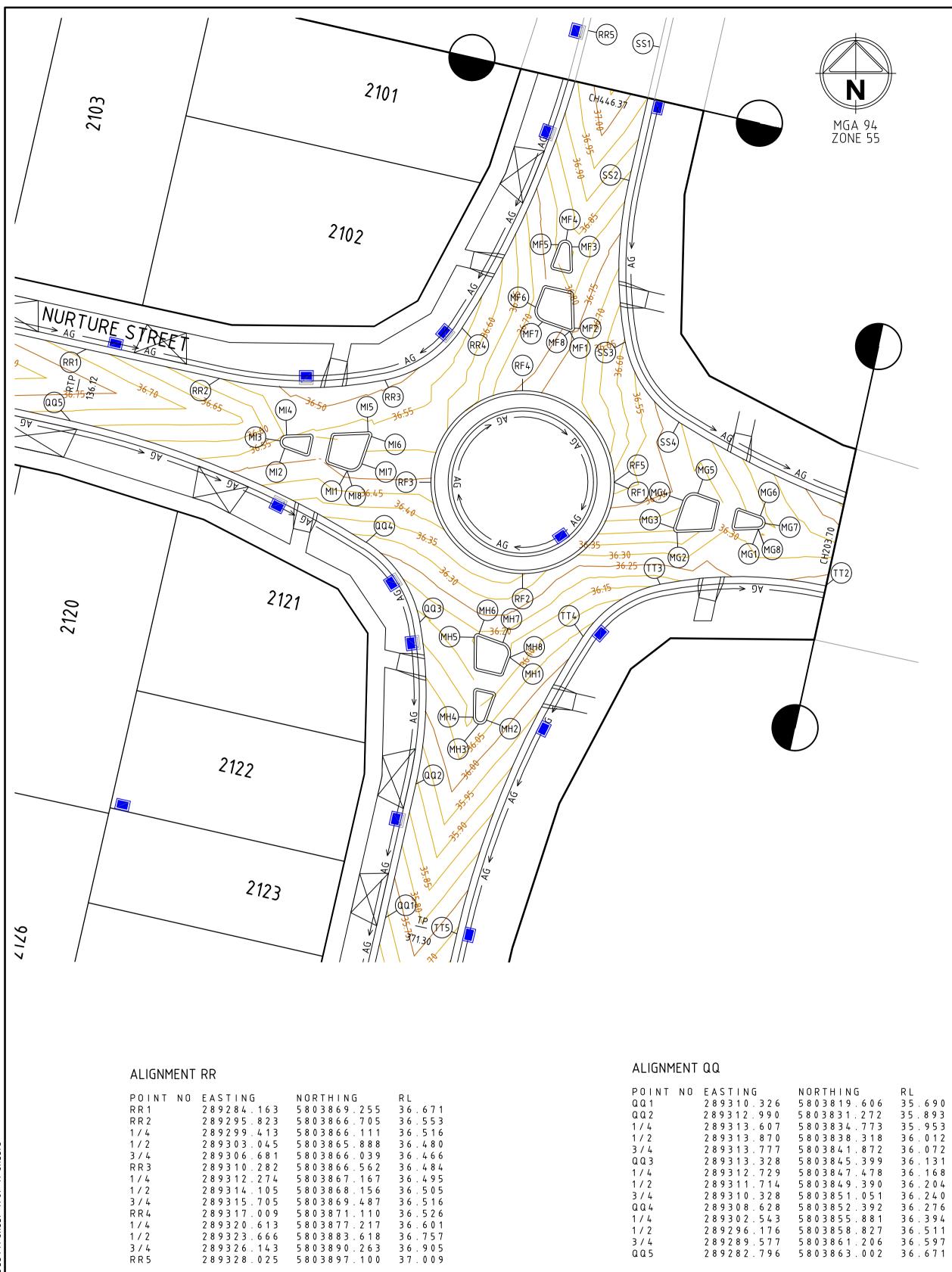






Α

Rev



3/4

R R 4

1/4

1/2

3/4

R R 5

CURVE

				Scale
				DETAIL PLAN
				H 1:250 0 2 <u>.5 5</u> 7. <u>5 1</u> 0 12.5
				SCALE @ A1
				LIP PROFILE
				H 1:250 0 2.5 5 7.5 10 12.5 SCALE @ A1
А	PRELIMINARY ISSUE	MI.R	30/11/22	V 1:25 0 0.25 0.50 0.75 1.00 1.25
Rev	Amendments	Approved	Date	

RADIUS ARC L CHORD MID ORD QTR ORD

RR2-RR3 35.450 14.562 14.460 0.745 -0.187

RR3-RR4 10.450 8.340 8.120 0.821 -0.207

RR4-RR5 80.450 28.375 28.229 1.248 -0.313



RL

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289302.543 5803855.881 36.394

289296.176 5803858.827 36.511

289289.577 5803861.206 36.597

289282.796 5803863.002 36.671

QQ2-QQ3 35.450 14.226 14.131 0.711 -0.178

QQ3-QQ4 10.450 8.672 8.425 0.887 -0.224

QQ4-QQ5 80.450 28.069 27.927 1.221 -0.306

RADIUS ARC L CHORD MID ORD QTR ORD

3/4

Q Q 4

1/4

1/2

3/4

Q Q 5

CURVE



VICTORIA 8007 AUSTRALIA T 61 3 9993 7888

ABN 55 050 029 635

spiire.com.au



K. FEARN-WANNAN

Designed

Authorised

G. KOHLMAN

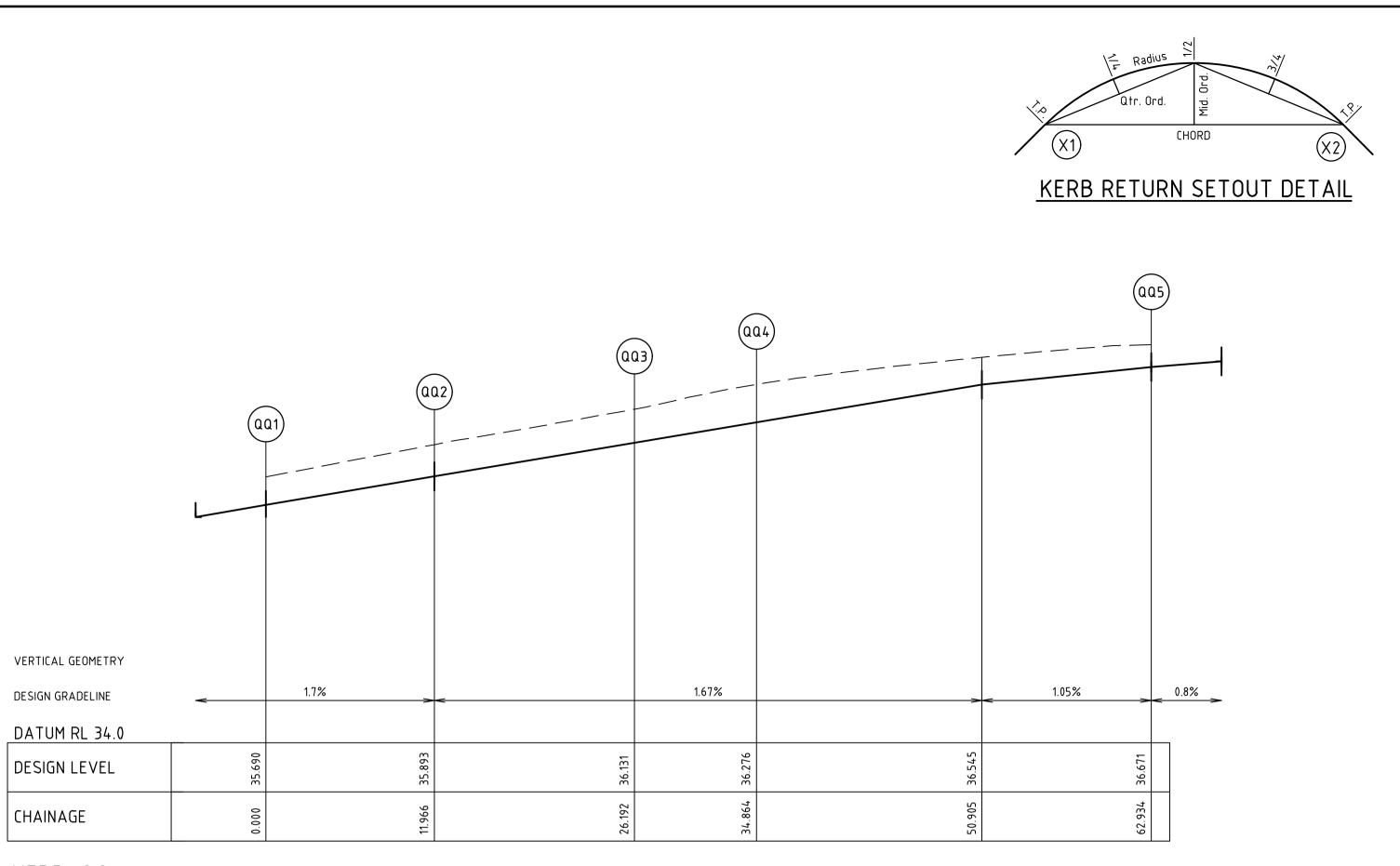
# Mambourin

Checked G. KOHLMAN Date 03/03/23

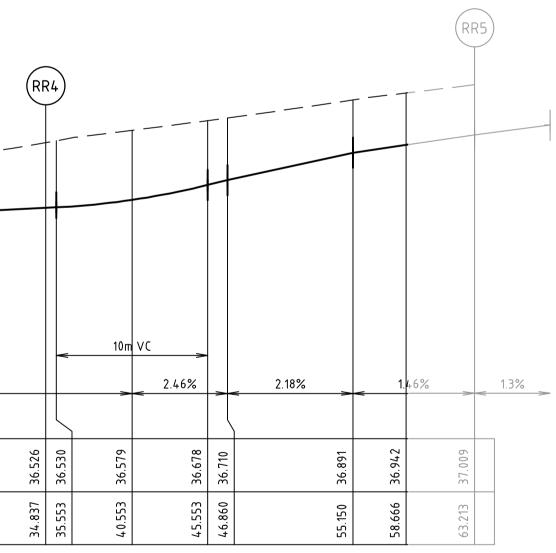


	RI	R1) (RF	2			RI	ε	
					ΓT			
	·							
VERTICAL GEOMETRY				<del>~</del> 10m	vc	~		
DESIGN GRADELINE	-0.8%	-0.99%		>	<			0.5%
DATUM RL 35.0								
DESIGN LEVEL	36.671	36.553	36.508	36.477	36.475	36.484	36.484	
CHAINAGE	0.000	11.936	16.393	21.393	23.040	26.393	26.498	

# KERB QQ



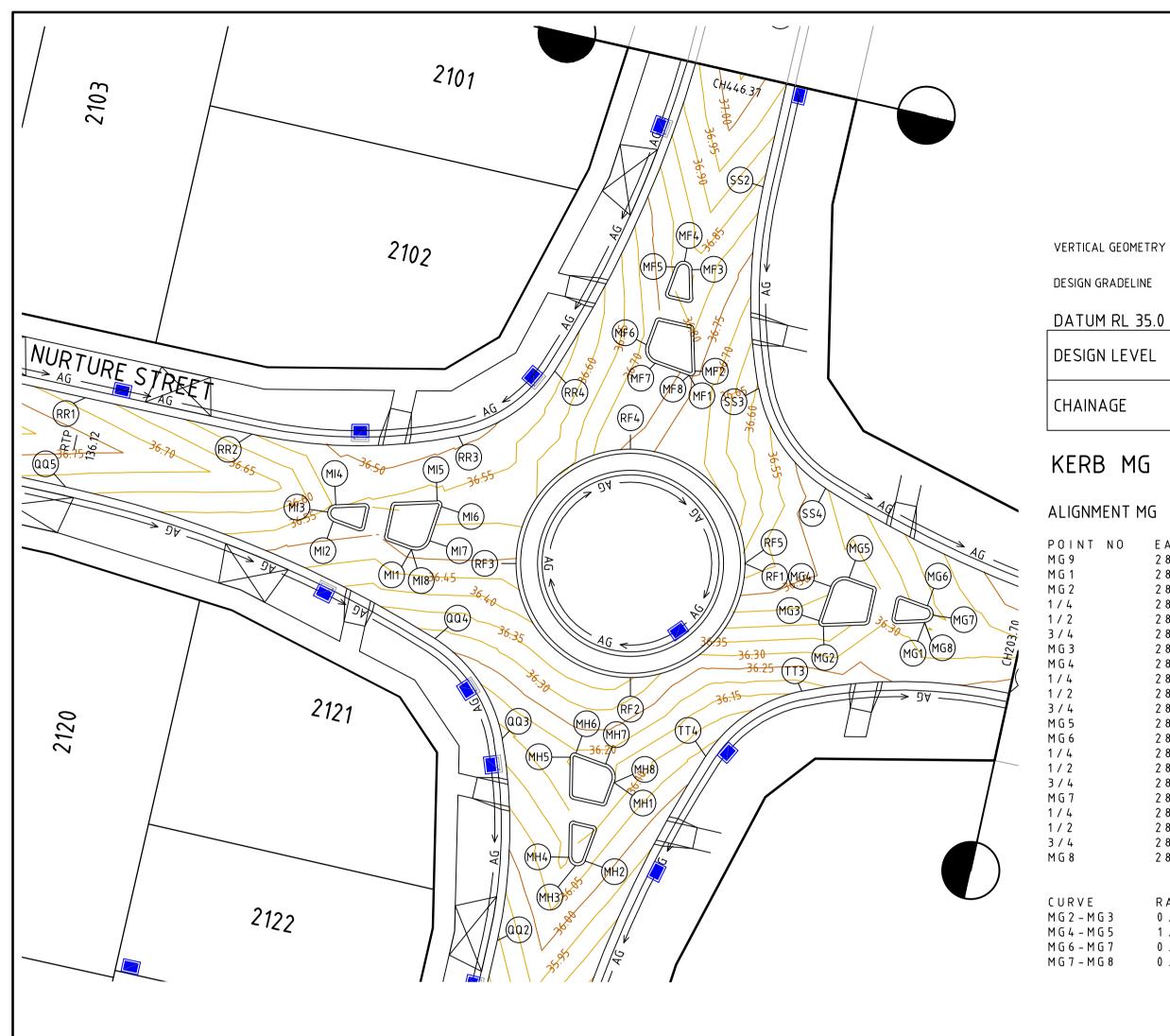








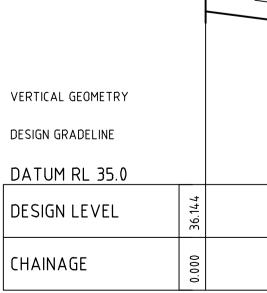
Rev



### ALIGNMENT MH

POINT NO MH8 MH1 3/4 MH2 1/4 1/2 3/4 MH3 1/4 1/2 3/4 MH4 MH5 1/4 1/2 3/4 MH6 1/4 1/2 3/4 MH6 1/4 1/2 MH7	E A S T I N G       N O R T H I N G       R L         2 8 9 3 2 1 . 1 6 6       5 8 0 3 8 4 2 . 3 3 6       3 6 . 1 4 4         2 8 9 3 2 1 . 1 6 6       5 8 0 3 8 4 2 . 3 3 6       3 6 . 1 4 4         2 8 9 3 2 0 . 4 8 6       5 8 0 3 8 4 0 . 4 9 4       3 6 . 1 4 4         2 8 9 3 2 0 . 4 8 6       5 8 0 3 8 3 6 . 8 4 6       3 6 . 0 6 9         2 8 9 3 1 9 . 1 3 9       5 8 0 3 8 3 6 . 6 7 7       3 6 . 0 7 2         2 8 9 3 1 9 . 0 2 5       5 8 0 3 8 3 6 . 5 5 6       3 6 . 0 7 6         2 8 9 3 1 8 . 8 6 1       5 8 0 3 8 3 6 . 5 5 6       3 6 . 0 8 0         2 8 9 3 1 8 . 4 6 2       5 8 0 3 8 3 6 . 5 5 6       3 6 . 0 8 4         2 8 9 3 1 8 . 4 6 2       5 8 0 3 8 3 6 . 5 8 3       3 6 . 0 8 4         2 8 9 3 1 8 . 1 2 1       5 8 0 3 8 3 6 . 5 8 3       3 6 . 0 9 2         2 8 9 3 1 8 . 0 2 3       5 8 0 3 8 3 6 . 7 2 0       3 6 . 0 9 6         2 8 9 3 1 8 . 0 2 3       5 8 0 3 8 3 6 . 8 9 9       3 6 . 1 0 0         2 8 9 3 1 8 . 0 2 3       5 8 0 3 8 4 4 . 2 3 5       3 6 . 1 9 8         2 8 9 3 1 8 . 1 2 0       5 8 0 3 8 4 4 . 3 9 1       3 6 . 1 9 8         2 8 9 3 1 8 . 2 1 4       5 8 0 3 8 4 4 . 3 9 1       3 6 . 1 9 2         2 8 9 3 1 8 . 3 4 6       5 8 0 3 8 4 4 . 3 7 6       3 6 . 1 9 2         2 8 9 3 1 8 . 7 2 1
C U R V E MH 2 - MH 3 MH 3 - MH 4 MH 5 - MH 6 MH 7 - MH 1	RADIUS ARC L CHORD MID ORD QTR ORD 0.600 0.820 0.758 0.135 0.035 0.600 0.820 0.758 0.135 0.035 0.300 0.571 0.489 0.126 0.033 1.000 - 17.275 - 1.417 1.706 1.384 Radius Property Chord
/ (X1)	(X2)

KERB RETURN SETOUT DETAIL



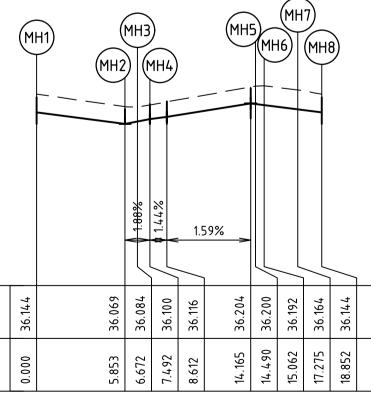


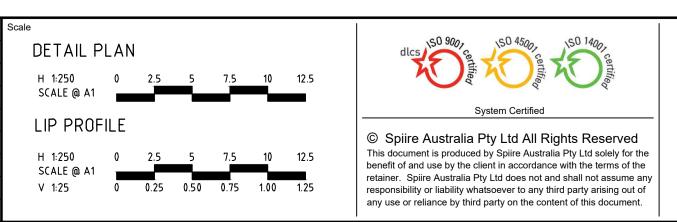
MI.R

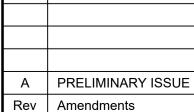
Approved

30/11/22

Date











# KERB MF

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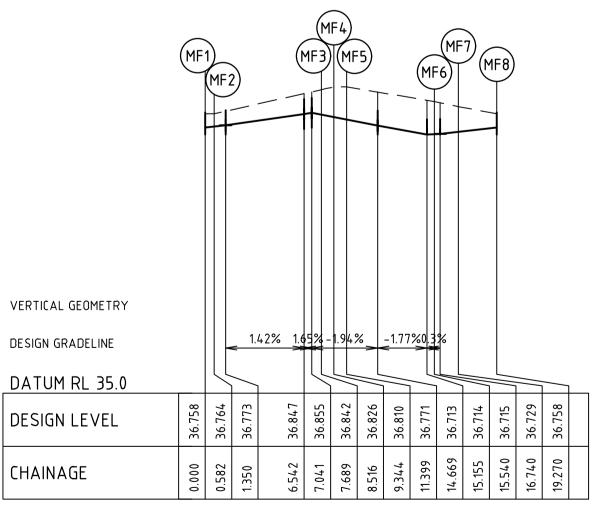
36.327 36.314 36.299

0.600 0.827 0.763 0.137

2.251%

-1.9%

36.394 36.407 36.464 36.494 36.494 36.368 36.348 36.348 36.348



0.035

MI7-MI1 1.000 -17.686 -1.099 1.836

ALIGNMENT M	F			
POINT NO MF8 MF1 1/4 1/2 3/4 MF2 MF3 1/4 1/2 3/4 MF4 1/4 1/2 3/4 MF5 MF6 1/4 1/2 3/4 MF5 MF6 1/4 1/2 3/4 MF7	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5 8 0 3 8 7 0 . 7 9 8 5 8 0 3 8 7 0 . 8 5 2 5 8 0 3 8 7 0 . 9 6 3 5 8 0 3 8 7 1 . 1 0 4 5 8 0 3 8 7 8 . 2 0 7 5 8 0 3 8 7 8 . 4 0 9 5 8 0 3 8 7 8 . 4 0 9 5 8 0 3 8 7 8 . 7 1 4 5 8 0 3 8 7 8 . 7 1 4 5 8 0 3 8 7 8 . 7 8 1 5 8 0 3 8 7 8 . 7 8 1 5 8 0 3 8 7 8 . 7 9 5 8 0 3 8 7 8 . 7 0 7 5 8 0 3 8 7 8 . 3 9 7 5 8 0 3 8 7 2 . 9 4 5 5 8 0 3 8 7 2 . 17 4 5 8 0 3 8 7 2 . 17 4 5 8 0 3 8 7 2 . 17 4	36.758 36.759 36.761 36.763 36.764 36.842 36.834 36.834 36.834 36.830 36.822 36.826 36.822 36.818 36.814 36.814 36.714 36.715 36.724	
C U R V E M F 1 – M F 2 M F 3 – M F 4 M F 4 – M F 5 M F 6 – M F 7	R A D I U S       A R C         0 . 3 0 0       0 . 5         0 . 6 0 0       0 . 8         0 . 6 0 0       0 . 8         1 . 0 0 0       1 . 5	8 2         0.495         0           2 7         0.763         0           2 7         0.763         0	1   D ORD ).131 ).137 ).137 ).137 ).298	Q T R O R D - 0 . 0 3 5 - 0 . 0 7 7

1.287

36.579 36.556

0.000 0.857

VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 35.0

DESIGN LEVEL

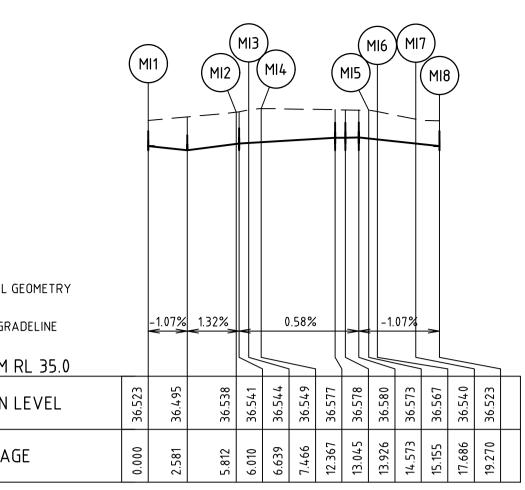
CHAINAGE

KERB RF

CHAINAGE	0.000	2.880	7.107	10.220	11.675	11.804	14.807	11.010	19.270										DESIGN G	RADELIN
																			DATUM	I RL 35
KERB MG																			DESIGN	LEVE
ALIGNMENT MG										ALIG	NMEN ⁻	T MI							CHAINA	AGE
POINT NO       EASTI         1G9       28934         1G1       28934         1G2       28933         /4       28933         /2       8933         /2       8933         /4       28933         /2       8933         /4       28933         /4       28933         /4       28933         /4       28933         /4       28933         /2       8933         /4       28933         /2       8933         /4       28933         /2       8933         /2       8934         /2       8934         /4       28934         /4       28934         /2       8934         /2       28934         /4       28934         /4       28934         /4       28934         /2       28934         /4       28934         /4       28934         /4       28934         /4       28934	$\begin{array}{c} 2 & . & 9 & 0 & 1 \\ 2 & . & 9 & 0 & 1 \\ 5 & . & 7 & 9 & 9 \\ 5 & . & 6 & 5 & 8 \\ 5 & . & 5 & 4 & 7 & 1 \\ 5 & . & 5 & 0 & 4 \\ 6 & . & 3 & 2 & 6 \\ 6 & . & 3 & 2 & 6 \\ 6 & . & 3 & 2 & 6 \\ 6 & . & 3 & 2 & 0 \\ 7 & . & 6 & 0 & 9 \\ 3 & . & 2 & 5 & 8 \\ 7 & . & 2 & 5 & 8 \\ 7 & . & 2 & 5 & 8 \\ 3 & . & 4 & 7 & 0 \\ 3 & . & 4 & 7 & 0 \\ 3 & . & 4 & 0 & 4 \\ 3 & . & 2 & 7 & 7 \\ 3 & . & 1 & 0 & 2 \end{array}$	5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 5803 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    B       5       7       4         B       B       5       3       4         B       B       5       3       4         B       B       5       3       4         B       B       5       3       4         B       B       5       3       4         B       B       5       3 <th>5 2 7 2 2 7 6 2 7 5 7 3 5 6 4 3 7 7 6 5 9 2 6 3 6 7 1 5 4 3 7 7 4 1 4 1 4 2 0 8 4 7 9 1</th> <th>3 6 3 6 3 6 3 6 3 6 3 6 3 6 3 6 3 6 3 6</th> <th>3 2 3 9 3 9 4 0 4 0 4 0 4 0 4 0 4 6 4 7 4 8 4 9 3 6 5 3 5 3 4 3 3 5 3 4 3 3 3 3 3 3 3 2</th> <th>7 4 8 1 4 7 4 3 2 1 4 8 3 8 3 8 2 7 2</th> <th></th> <th></th> <th>P 0 1 N M 1 1 M 1 8 3 / 4 M 1 2 1 / 4 1 / 2 3 / 4 M 1 3 1 / 4 1 / 2 3 / 4 M 1 4 N 1 5 1 / 4 1 / 2 3 / 4 M 1 6 1 / 4 1 / 2 M 1 7</th> <th>NT NO</th> <th>E       A       S       T       I       N       G         2       8       9       3       0       6       .         2       8       9       3       0       6       .         2       8       9       3       0       6       .         2       8       9       3       0       1       .         2       8       9       3       0       1       .         2       8       9       3       0       1       .         2       8       9       3       0       1       .         2       8       9       3       0       1       .         2       8       9       3       0       1       .         2       8       9       3       0       1       .         2       8       9       3       0       1       .         2       8       9       3       0       1       .         2       8       9       3       0       8       .         2       8       9       3       0       <t< th=""><th>9       8       1         9       8       1         2       2       9         5       1       1         3       3       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         2       2       4         3       4       8         5       9       1         2       2       3         2       3       4         3       4       3         4       9       4         5       3       5           2       3       5         3       4       5          3       5       3          4       5</th><th>$5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8$</th><th>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</th><th>7       36         6       36         9       36         1       36         7       36         9       36         9       36         9       36         9       36         9       36         9       36         9       36         9       36         9       36         9       36         9       36         9       36         9      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6 3 6 3 6 3 6 3 6 3 6 3 6 3 6 3 6 3 6	3 2 3 9 3 9 4 0 4 0 4 0 4 0 4 0 4 6 4 7 4 8 4 9 3 6 5 3 5 3 4 3 3 5 3 4 3 3 3 3 3 3 3 2	7 4 8 1 4 7 4 3 2 1 4 8 3 8 3 8 2 7 2			P 0 1 N M 1 1 M 1 8 3 / 4 M 1 2 1 / 4 1 / 2 3 / 4 M 1 3 1 / 4 1 / 2 3 / 4 M 1 4 N 1 5 1 / 4 1 / 2 3 / 4 M 1 6 1 / 4 1 / 2 M 1 7	NT NO	E       A       S       T       I       N       G         2       8       9       3       0       6       .         2       8       9       3       0       6       .         2       8       9       3       0       6       .         2       8       9       3       0       1       .         2       8       9       3       0       1       .         2       8       9       3       0       1       .         2       8       9       3       0       1       .         2       8       9       3       0       1       .         2       8       9       3       0       1       .         2       8       9       3       0       1       .         2       8       9       3       0       1       .         2       8       9       3       0       1       .         2       8       9       3       0       8       .         2       8       9       3       0 <t< th=""><th>9       8       1         9       8       1         2       2       9         5       1       1         3       3       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         2       2       4         3       4       8         5       9       1         2       2       3         2       3       4         3       4       3         4       9       4         5       3       5           2       3       5         3       4       5          3       5       3          4       5</th><th>$5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 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&amp; 5 &amp; 0 &amp; 3 \\ 5 &amp; 5 &amp; 4 &amp; 1 \\ 5 &amp; 5 &amp; 4 &amp; 1 \\ 5 &amp; 5 &amp; 4 &amp; 2 \\ 5 &amp; 5 &amp; 4 &amp; 3 \\ 5 &amp; 5 &amp; 4 &amp; 4 \\ 5 &amp; 5 &amp; 4 &amp; 4 \\ 5 &amp; 5 &amp; 4 &amp; 6 \\ 5 &amp; 5 &amp; 4 &amp; 6 \\ 5 &amp; 5 &amp; 4 &amp; 6 \\ 5 &amp; 5 &amp; 7 &amp; 1 \\ 5 &amp; 5 &amp; 6 &amp; 0 \\ 5 &amp; 5 &amp; 6 &amp; 0 \\ 5 &amp; 5 &amp; 4 &amp; 0 \\ \end{array}$</th><th></th><th>KERB</th><th>MI</th></t<>	9       8       1         9       8       1         2       2       9         5       1       1         3       3       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         2       2       4         3       4       8         5       9       1         2       2       3         2       3       4         3       4       3         4       9       4         5       3       5           2       3       5         3       4       5          3       5       3          4       5	$5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 3 \\ 5 8 0 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     36         9       36         9       36         9       36         9       36         9       36         9       36         9       36         9       36         9       36         9       36         9	$\begin{array}{c} 5 & 2 & 3 \\ 5 & 2 & 3 \\ 5 & 5 & 0 & 3 \\ 5 & 5 & 4 & 1 \\ 5 & 5 & 4 & 1 \\ 5 & 5 & 4 & 2 \\ 5 & 5 & 4 & 3 \\ 5 & 5 & 4 & 4 \\ 5 & 5 & 4 & 4 \\ 5 & 5 & 4 & 6 \\ 5 & 5 & 4 & 6 \\ 5 & 5 & 4 & 6 \\ 5 & 5 & 7 & 1 \\ 5 & 5 & 6 & 0 \\ 5 & 5 & 6 & 0 \\ 5 & 5 & 4 & 0 \\ \end{array}$		KERB	MI
EURVE RADIU 1G2 – MG3 0.300 1G4 – MG5 1.000 1G6 – MG7 0.600	0.5	582 584	CHORI 0.49 1.42 0.76	50 40	1 I D ) . 1 3 ) . 2 9 ) . 1 3	8		Q T R 0 . 0 0 . 0 0 . 0	77	D CURV MI2- MI3- MI5-	- M I 3 - M I 4 - M I 6	R A D I U S 0 . 6 0 0 0 . 6 0 0 0 . 3 0 0	ARC 0.82 0.82 0.58	27 27 32	C H O R D 0 . 7 6 3 0 . 7 6 3 0 . 4 9 5	0.1 0.1 0.1	37 31	Q T R O R D 0.035 0.035 0.035		

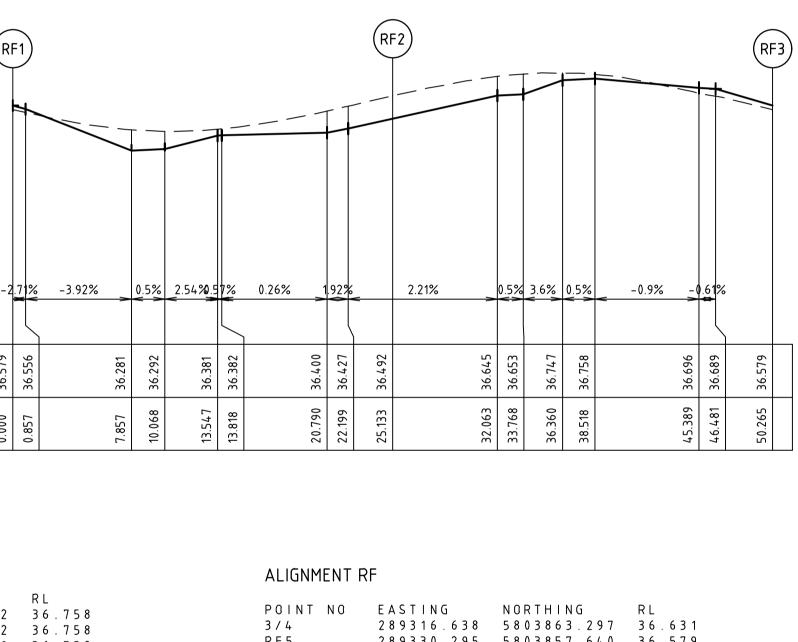
DESIGN GRADELINE

VERTICAL GEOMETRY





MI



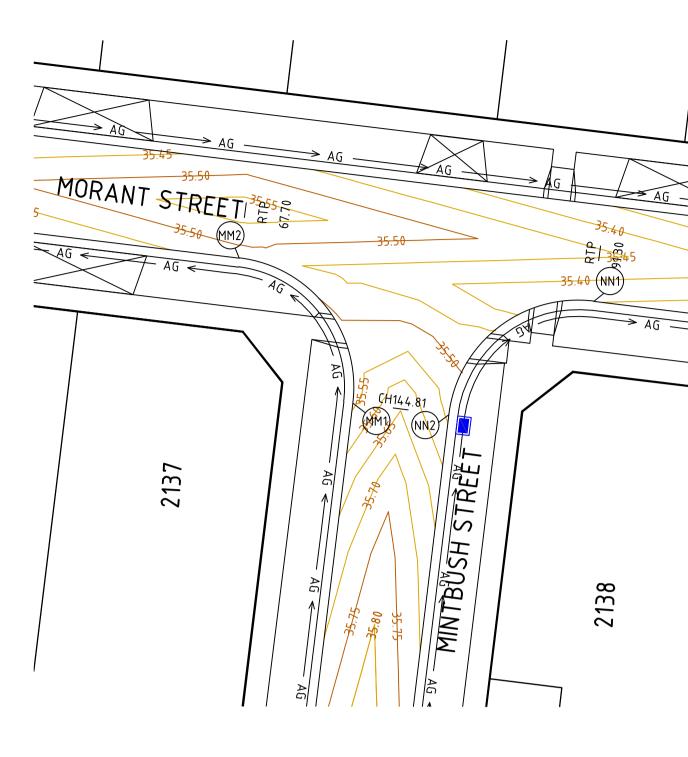
POINT NO 3/4 RF5 RF1 1/4 1/2 3/4 RF2 1/4 1/2 3/4 RF3 1/4 1/2 3/4 RF3 1/4 1/2 3/4 RF3 1/4	E A S T I N G 2 8 9 3 1 6 . 6 3 8 2 8 9 3 3 0 . 2 9 5 2 8 9 3 2 9 . 6 8 6 2 8 9 3 2 7 . 9 5 2 2 8 9 3 2 5 . 3 5 7 2 8 9 3 2 2 . 2 9 5 2 8 9 3 1 9 . 2 3 4 2 8 9 3 1 6 . 6 3 8 2 8 9 3 1 4 . 9 0 4 2 8 9 3 1 6 . 6 3 8 2 8 9 3 1 6 . 6 3 8 2 8 9 3 1 6 . 6 3 8 2 8 9 3 1 6 . 6 3 8 2 8 9 3 1 6 . 6 3 8 2 8 9 3 1 6 . 6 3 8 2 8 9 3 1 6 . 6 3 8 2 8 9 3 1 6 . 6 3 8 2 8 9 3 1 6 . 6 3 8 2 8 9 3 1 6 . 6 3 8 2 8 9 3 1 6 . 6 3 8 2 8 9 3 1 6 . 6 3 8 2 8 9 3 1 6 . 6 3 8 2 8 9 3 1 9 . 2 3 4 2 8 9 3 1 6 . 6 3 8 2 8 9 3 1 9 . 2 3 4 2 8 9 3 1 9 . 2 3 4 2 8 9 3 1 9 . 2 5 . 5 7	N O R T H I N G 5 8 0 3 8 6 3 . 2 9 7 5 8 0 3 8 5 7 . 6 4 0 5 8 0 3 8 5 7 . 6 4 0 5 8 0 3 8 5 7 . 6 4 0 5 8 0 3 8 5 4 . 5 7 9 5 8 0 3 8 5 0 . 2 4 9 5 8 0 3 8 5 0 . 2 4 9 5 8 0 3 8 5 0 . 2 4 9 5 8 0 3 8 5 0 . 2 4 9 5 8 0 3 8 5 1 . 9 8 4 5 8 0 3 8 5 1 . 9 8 4 5 8 0 3 8 5 1 . 9 8 4 5 8 0 3 8 5 1 . 9 8 4 5 8 0 3 8 5 7 . 6 4 0 5 8 0 3 8 6 3 . 2 9 7 5 8 0 3 8 6 3 . 2 9 7 5 8 0 3 8 6 5 . 0 3 2 5 8 0 3 8 6 5 . 0 3 2 5 8 0 3 8 6 5 . 6 4 0	R L         3 6       . 6 3 1         3 6       . 5 7 9         3 6       . 5 7 9         3 6       . 4 6 6         3 6       . 3 4 3         3 6       . 2 8 9         3 6       . 3 5 6         3 6       . 3 9 5         3 6       . 4 9 2         3 6       . 5 6 1         3 6       . 6 3 1         3 6       . 6 3 1         3 6       . 6 8 2         3 6       . 6 7 5 4	
1/4	289325.357	5803865.032	36.737	
C U R V E R F 1 – R F 2	RADIUS ARC L 8.000 12.56	6 11.314 2.	ID ORD 343	QTR ORD 0.609
R F 2 – R F 3	8.000 12.56		343	0.609
R F 3 – R F 4 R F 4 – R F 1	8.000 12.56 8.000 - 37.69		. 3 4 3 . 6 5 7	0.609 4.939
	0.10.00	,	100	4 . J J J

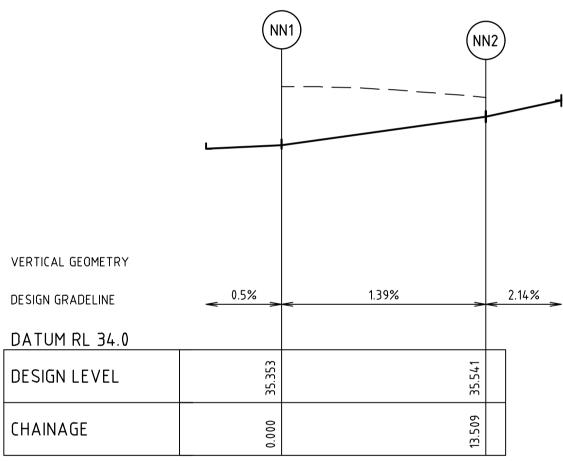
QTR ORD

MAMBOURIN **STAGE 21** ROAD AND DRAINAGE **INTERSECTION DETAILS - SHEET 3** WYNDHAM CITY COUNCIL

FRASER PROPERTY LTD PRELIMINARY 309508CR502

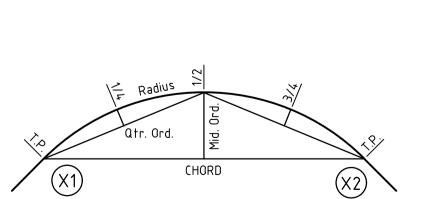
Rev





	(MM1)		(MM2)
	F		
VERTICAL GEOMETRY			
DESIGN GRADELINE	-2.15%	-0.49%	-0.5%
DATUM RL 34.0			
DESIGN LEVEL	35.537		35.471
CHAINAGE	0.000		13.509
KERB MM ALIGNMENT MM			
1 / 4     2 8 9 2 1 4 .       1 / 2     2 8 9 2 1 2 .	NORTHING           726         5803791.5           475         5803794.9           962         5803797.9	5 9 3 5 . 5 3 7 0 5 3 5 . 5 2 0 0 0 3 5 . 5 0 4	

POINT NO	E A S T I N G	N O R T H I N G	RL	
MM1	2 8 9 2 1 4 . 7 2 6	5 8 0 3 7 9 1 . 5 5 9	35.537	
1/4	2 8 9 2 1 4 . 4 7 5	5 8 0 3 7 9 4 . 9 0 5	35.520	
1/2	2 8 9 2 1 2 . 9 6 2	5 8 0 3 7 9 7 . 9 0 0	35.504	
3/4	2 8 9 2 1 0 . 4 1 8	5 8 0 3 8 0 0 . 0 8 8	35.487	
MM2	2 8 9 2 0 7 . 2 3 1	5 8 0 3 8 0 1 . 1 3 7	35.471	
C U R V E	RADIUS ARC		MID ORD	QTR ORD
M M 1 – M M 2	8.600 13.		2.519	-0.655



POINT NO EASTING NORTHING RL

289230.657 5803798.279 35.353

289227.311 5803798.028 35.400

289224.316 5803796.515 35.447

289222.128 5803793.971 35.494

289221.079 5803790.784 35.541

NN1-NN2 8.600 13.509 12.162 2.519 -0.655

RADIUS ARC L CHORD MID ORD QTR ORD

KERB NN

N N 1

1/4

1/2

3/4

N N 2

CURVE

ALIGNMENT NN

# KERB RETURN SETOUT DETAIL

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ata/					Scale	
n/e					DETAIL PLAN	
ldat					H 1:250 0 2.5 5 7.5 10 12.5	
\meld:					SCALE @ A1	
piire					LIP PROFILE	
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tion					H 1:250 0 2.5 5 7.5 10 12.5 SCALE @ A1	Tł be
local					V 1:25 0 0.25 0.50 0.75 1.00 1.25	re re
file	Rev	Amendments	Approved	Date		ar



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001

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002

CURVE

KERB 00

ALIGNMENT OO

POINT NO EASTING NORTHING RL

289299.692 5803776.533 35.117

289299.850 5803779.950 35.142

289298.663 5803783.159 35.168

289296.319 5803785.651 35.194

289293.189 5803787.032 35.220

001-002 8.600 13.776 12.349 2.614 -0.680

RADIUS ARC L CHORD MID ORD QTR ORD

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



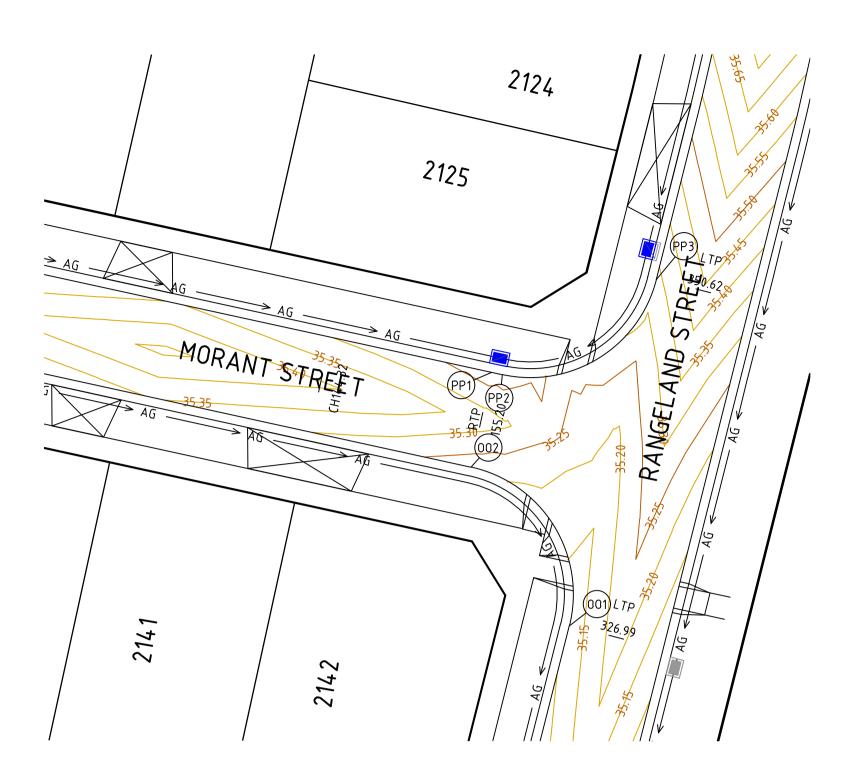
# Mamb^ourin

Designed K. FEARN-WANNAN Authorised G. KOHLMAN

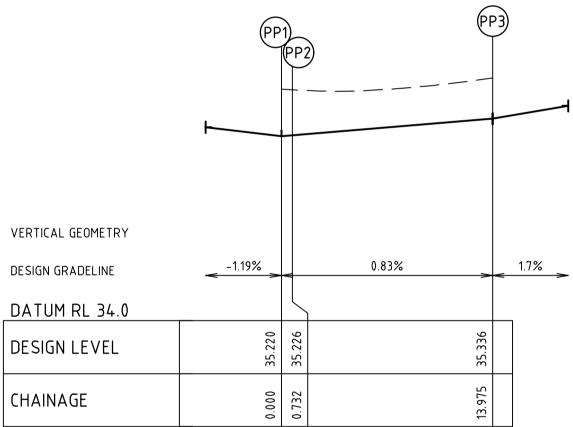
Checked G. KOHLMAN Date

03/03/23

			002	
	L			
VERTICAL GEOMETRY				
DESIGN GRADELINE	<del>&lt;</del> 0.5% >	0.75%	>< 1.1	19% >
DATUM RL 34.0				
DESIGN LEVEL	35.117		N77.66	
CHAINAGE	0.000		0/7.61	







# KERB PP

# ALIGNMENT PP

POINT NO PP1 PP2 1/4 1/2 3/4 PP3	E A S T I N G 2 8 9 2 9 4 . 5 5 6 2 8 9 2 9 5 . 2 7 2 2 8 9 2 9 8 . 5 6 1 2 8 9 3 0 1 . 6 3 8 2 8 9 3 0 4 . 0 5 2 2 8 9 3 0 5 . 4 5 0	N O R T H I N G 5 8 0 3 7 9 3 . 2 8 4 5 8 0 3 7 9 3 . 1 2 7 5 8 0 3 7 9 3 . 0 5 2 5 8 0 3 7 9 4 . 2 1 8 5 8 0 3 7 9 6 . 4 5 3 5 8 0 3 7 9 9 . 4 3 2	3 5 . 2 2 6 3 5 . 2 5 3 3 5 . 2 8 1 3 5 . 3 0 8	
C U R V E	RADIUS ARC		MID ORD	QTR ORD
P P 2 – P P 3	8.600 13.1		2.425	-0.629





PRELIMINARY 309508CR503

Rev

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name AD pl												
name 309508CR600.dwg layout location G:\30\309508\Civil\AC					Scale H 1:500 SCALE @ /	0	5	10	15	20	25	
00.dwg 09508\(					V 1:50	0	0.5	1	1.5	2	2.5	
30/3 30/3					1							
9508 G:\]	С	PLASTIC PIPES ADDED & SWD LAYOUT AMENDED	MI.R	23/02/23								C Th
e 30 tion	В	DRAINAGE LAYOUT AMENDED	MI.R	03/01/23								be
nam loca	А	PRELIMINARY ISSUE	MI.R	30/11/22								reta res
file file	Rev	Amendments	Approved	Date								any

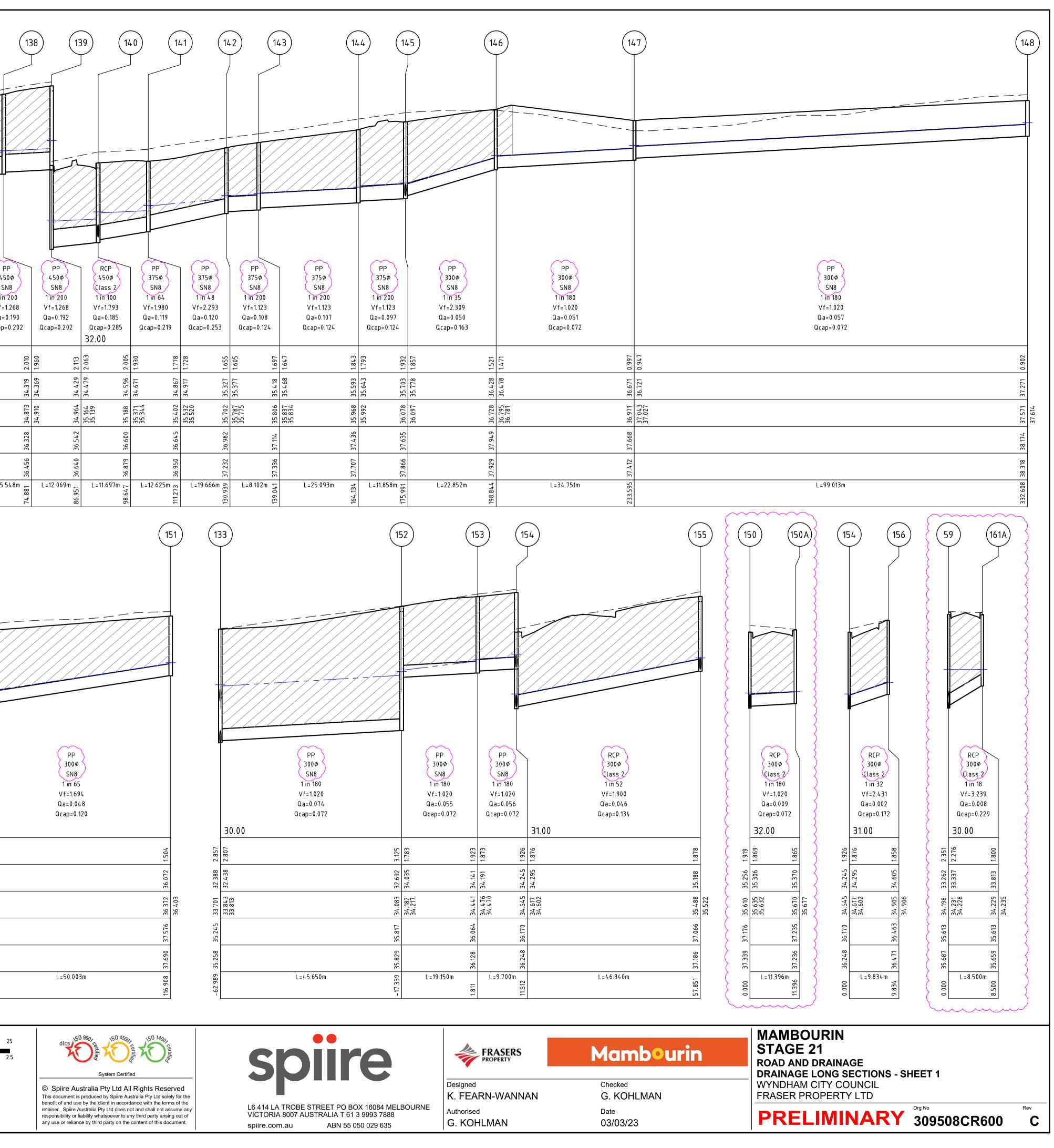
	-				
Pipe Material Pipe Diameter Pipe Class Pipe Grade Velocity (m/s) Pipe Flow (m3/s) Pipe Capacity (m3/s)		PP 300¢ SN8 1 in 93 Vf=1.421 Qa=0.067 Qcap=0.100		PP 300¢ SN8 1 in 180 Vf=1.020 Qa=0.055 Qcap=0.072	
DATUM		32.00			
DEPTH TO INVERT	2.005	1.855	1.843	1.793	1.869
DESIGN INVERT LEVEL	34.596	34.746	34.929	34.979	35.306
HYDRAULIC GRADE LEVEL	35.188	35.371 35.344	35.425	35.448 35.610	35.635 35.632
FINISHED SURFACE LEVEL	36.600		36.772	37.176	
EXISTING SURFACE LEVEL	36.879		36.949	1339	
CHAINAGE	0.000	1 1( 00( -	16.996	L=49.910m	

(149)

(140)

(150)

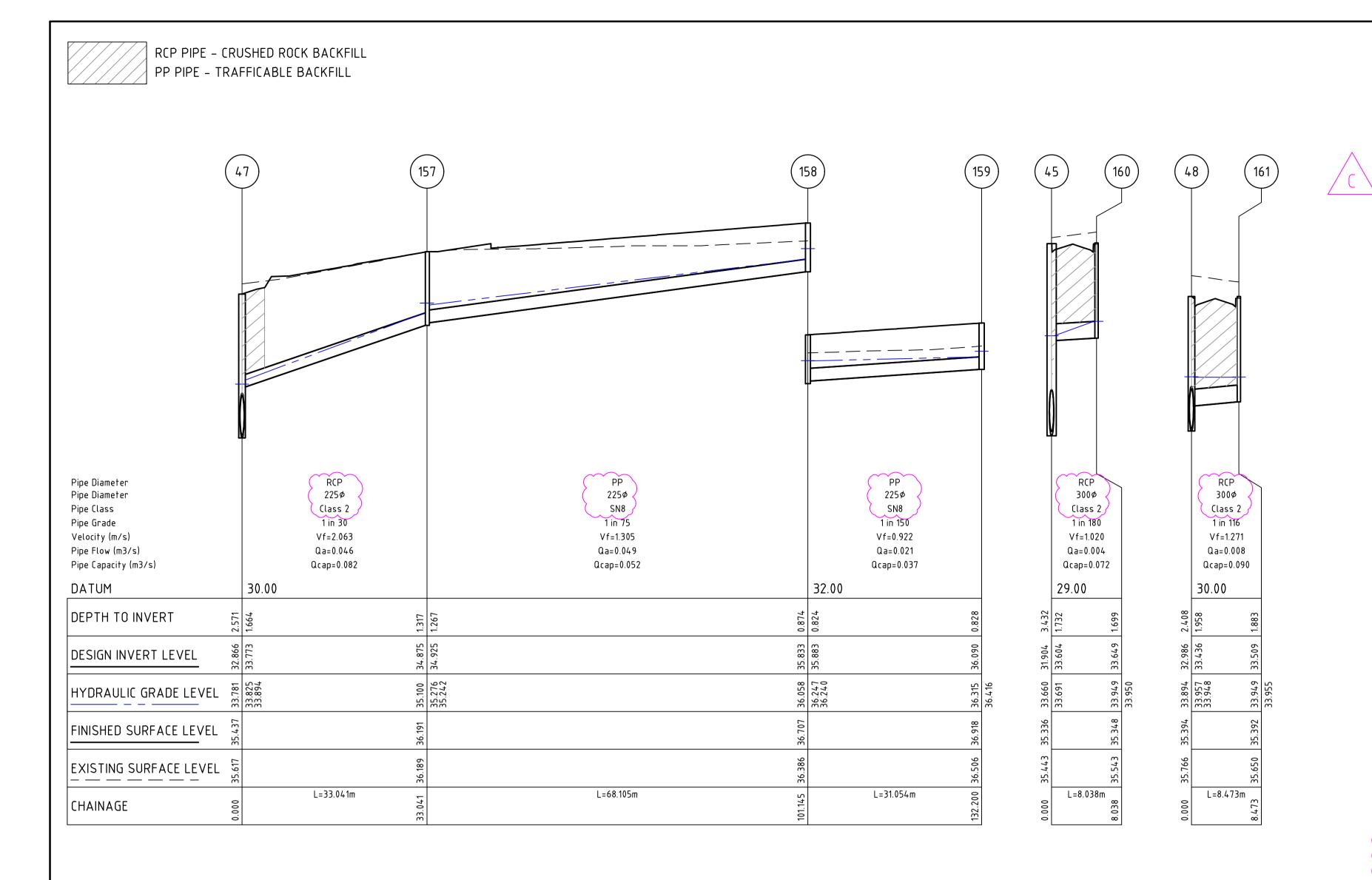
CRUSHED ROCK BACKFILL RAFFICABLE BACKFILL	4	4) (1	35)	(	13	36)	(13	7		8
C										
Pipe Material Pipe Diameter Pipe Class Pipe Grade Velocity (m/s) Pipe Flow (m3/s) Pipe Capacity (m3/s) DATUM		RCP 450¢ Class 2 1 in 92 Vf=1.874 Qa=0.204 Qcap=0.298 29.00	30.00	PP 450¢ SN8 1 in 104 Vf=1.759 Qa=0.204 Qcap=0.280		PP 450¢ SN8 1 in 200 Vf=1.268 Qa=0.194 Qcap=0.202		PP 450¢ SN8 1 in 200 Vf=1.268 Qa=0.190 Qcap=0.20		1 Vf Qca
DEPTH TO INVERT	3.397	2.947	1.642		1.847	1.797	1.987	1.937	2.010	1.960
DESIGN INVERT LEVEL	31.825	32.275	33.849		34.114	34.164	34.241	34.291	34.319	34.369
HYDRAULIC GRADE LEVEL	33.534	33.638 577 55	33.942 34.134		34.564	34.657 34.645	34.716	34.878 34.849	34.873	34.910
FINISHED SURFACE LEVEL	35.222	75 4 91 35			35.961		36.228		36.328	
EXISTING SURFACE LEVEL	35.299	7K9 SK			36.062		36.342		36.456	
CHAINAGE	0.000	L=26.390m		L=27.522m	53.912	L=15.422m	69.334	L=5.548m		L=1
						(	$\overline{}$		1	

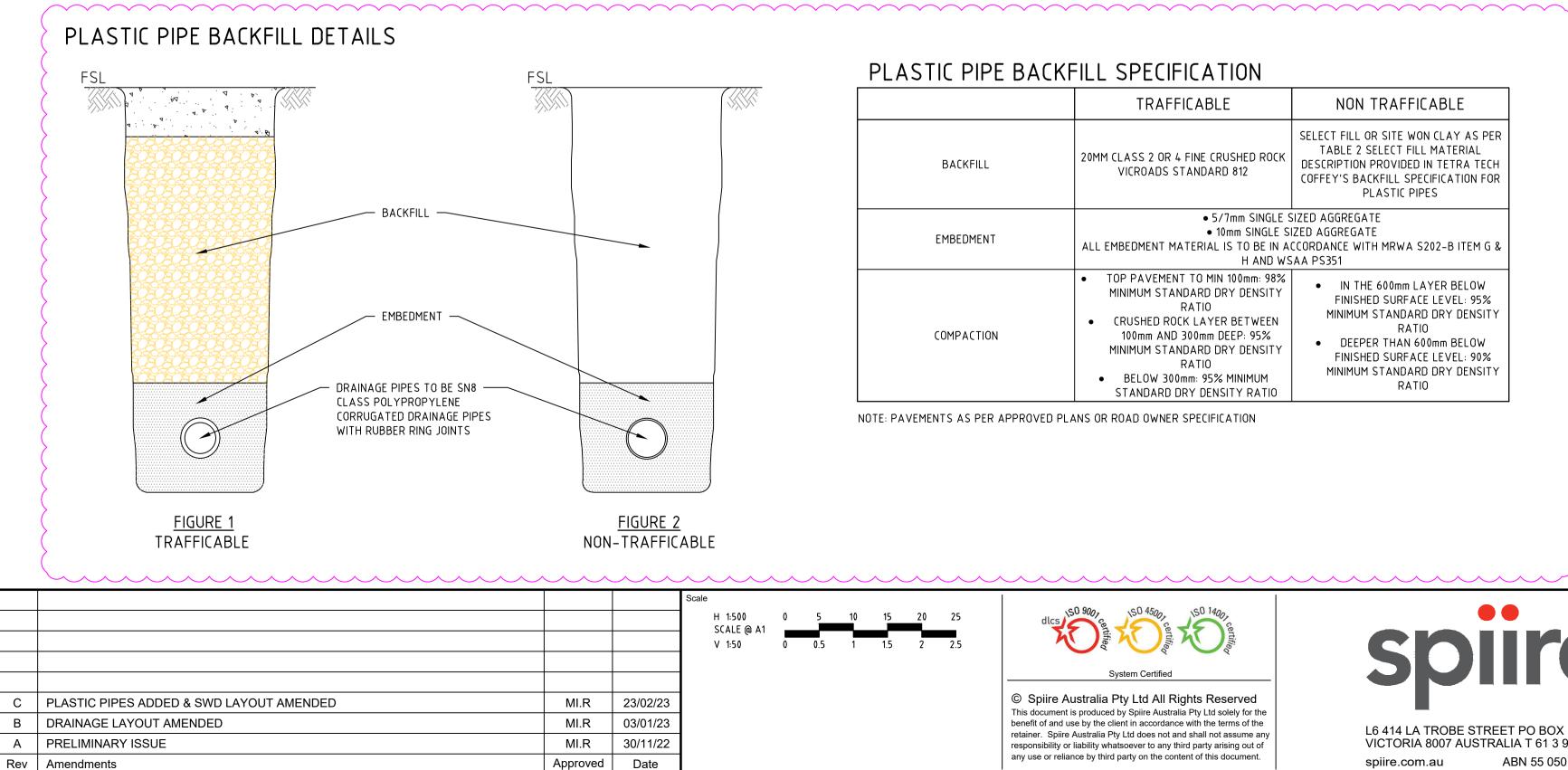




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by Kirster 2023 2:53 | 

TRAFFICABLE	NON TRAFFICABLE
20MM CLASS 2 OR 4 FINE CRUSHED ROCK VICROADS STANDARD 812	SELECT FILL OR SITE WON CLAY AS PER TABLE 2 SELECT FILL MATERIAL DESCRIPTION PROVIDED IN TETRA TECH COFFEY'S BACKFILL SPECIFICATION FOR PLASTIC PIPES
• 10mm SINGLE SI ALL EMBEDMENT MATERIAL IS TO BE IN A	SIZED AGGREGATE IZED AGGREGATE CCORDANCE WITH MRWA S202-B ITEM G & GAA PS351
<ul> <li>TOP PAVEMENT TO MIN 100mm: 98% MINIMUM STANDARD DRY DENSITY RATIO</li> <li>CRUSHED ROCK LAYER BETWEEN 100mm AND 300mm DEEP: 95% MINIMUM STANDARD DRY DENSITY RATIO</li> <li>BELOW 300mm: 95% MINIMUM STANDARD DRY DENSITY RATIO</li> </ul>	<ul> <li>IN THE 600mm LAYER BELOW FINISHED SURFACE LEVEL: 95% MINIMUM STANDARD DRY DENSITY RATIO</li> <li>DEEPER THAN 600mm BELOW FINISHED SURFACE LEVEL: 90% MINIMUM STANDARD DRY DENSITY RATIO</li> </ul>

### PIT SETOUT CO-ORDINATES

NAME	POINT	EASTING	NORTHIN
143	C	289327.072	5803897.05
14.4	C	289332.436	5803920.45
145	) C	289326.318	5803930.36
146	) C	289303.961	5803935.10
147	C	289296.537	5803901.15
148	С	289199.809	5803922.30
$\sim$	1		-

### DRAINAGE PIT SCHEDULE

	PIT	INTE	RNAL		INLET	(	DUTLET	PIT	-	REMARKS
NAME	ТҮРЕ	WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
135	GRATED SIDE ENTRY PIT	900	900	450	33.849	450	32.563	35.491	2.928	
136	JUNCTION PIT	900	900	450	34.164	450	34.114	35.961	1.847	
137	JUNCTION PIT	900	900	450	34.291	450	34.241	36.228	1.987	
138	JUNCTION PIT	900	900	450	34.369	450	34.319	36.328	2.010	
139 <	GRATED SIDE ENTRY PIT	900	900	450	34.479	450	34.429	36.542	2.113	
140 <	GRATED SIDE ENTRY PIT	900	900	375	34.671	450	34.596	36.600	2.005	
				300	34.746					
141	JUNCTION PIT	900	900	375	34.917	375	34.867	36.645	1.778	
142	GRATED SIDE ENTRY PIT	900	900	375	35.377	375	35.327	36.982	1.655	
143	JUNCTION PIT	900	900	375	35.468	375	35.418	37.114	1.697	PROVIDE CLASS D PIT LID
144	JUNCTION PIT	900	900	375	35.643	375	35.593	37.436	1.843	
145	JUNCTION PIT	750	900	300	35.778	375	35.703	37.635	1.932	A GRATED SIDE ENTRY PIT TO BE CONNECTED T JUNCTION PIT IN FUTURE ROAD CONSTRUCTION
146	JUNCTION PIT	600	900	300	36.478	300	36.428	37.949	1.521	↓
140	JUNCTION PIT	600	900	300	36.721	300	36.428	37.668	0.997	(
147 2	JUNCTION PIT	600	900	000	121.02	300	37.271	38.174	0.997	(
140	GRATED SIDE ENTRY PIT	600	900	300	34.979	300	34.929	36.772	1.843	}
150	GRATED SIDE ENTRY PIT	600	900	300	35.306	300	35.256	37.176	1.843	*
<u> </u>			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	300	35.306		33.230	57.170	1.212	>
151	JUNCTION PIT	600	900	500		300	36.072	37.576	1.504	
152	GRATED SIDE ENTRY PIT	600	900	300	34.035	300	32.692	35.817	3.125	(
153	JUNCTION PIT	900	600	300	34.191	300	34.141	36.064	1.923	
154	JUNCTION PIT	600	900	300	34.295	300	34.245	36.170	1.926	}
<				300	34.295					>
155 <	GRATED SIDE ENTRY PIT	600	900			300	35.188	37.066	1.878	
<				300	35.238				(	
150A <	GRATED SIDE ENTRY PIT	600	900			300	35.370	37.235	1.865	
156 <	JUNCTION PIT	600	900			300	34.605	36.463	1.858	
161A <	GRATED SIDE ENTRY PIT	600	900			300	33.813	35.613	1.800	>
157 <	JUNCTION PIT	600	900	225	34.925	225	34.875	36.191	1.317	<u>}</u>
158 🖌	JUNCTION PIT	600	900	225	35.883	225	35.833	36.707	0.874	
159	JUNCTION PIT	600	900			225	36.090	36.918	0.828	
160	GRATED SIDE ENTRY PIT	600	900			300	33.649	35.348	1.699	
161	GRATED SIDE ENTRY PIT	600	900			300	33.509	35.392	1.883	DOUBLE GRATED SIDE ENTRY PIT
45	JUNCTION PIT	1650	900	750	31.979	825	31.904	35.336	3.432	CONVERT EXISTING PIT TO DOUBLE GRATED SIL
				300	33.604					ENTRY PIT
1.5									0.7.10	CONVERT EXISTING PIT TO DOUBLE GRATED SID
48	JUNCTION PIT	1200	900	750	33.036	750	32.986	35.398	2.412	ENTRY PIT
				300	33.436					CONVERT EXISTING PIT TO DOUBLE GRATED SID
50	JUNCTION PIT	1200	900	450	33.304	750	33.254	35.510	2.256	ENTRY PIT
				450	33.304					
51	JUNCTION PIT	600	900	450	33.388	450	33.338	35.506	2.168	CONVERT EXISTING PIT TO DOUBLE GRATED SID
59	JUNCTION PIT	600	900	375	33.312	375	33.262	35.613	2.351	CONVERT EXISTING PIT TO DOUBLE GRATED SIL

NOTES

- 1. ALL GRATED SIDE ENTRY PITS ARE TO BE IN ACCORDANCE WITH EDCM601 AND EDCM605 OR EDCM606 (UNLESS NOTED OTHERWISE)
- 2. ALL JUNCTION PITS ARE TO BE IN ACCORDANCE WITH EDCM605 OR EDCM606 (UNLESS NOTED OTHERWISE)
- 3. ALL PITS WITH A WIDTH GREATER THAN 600mm ARE TO BE HAUNCHED PITS IN ACCORDANCE WITH EDCM607 OR EDCM608 (UNLESS NOTED OTHERWISE)
- 4. ALL GRATED ENTRY ARE TO BE IN ACCORDANCE WITH EDCM605 OR EDCM606 WITH "BIKE-SAFE" HOT DIP GALVANIZED CLASS D GRATING & FRAME TO SUIT (UNLESS NOTED OTHERWISE)
- 5. ENDWALL TO BE STANDARD ROCLA HEADWALL (OR APPROVED EQUIVALENT)

#### PLASTIC PIPE NOTES:

- 1. WHERE A PLASTIC DRAINAGE PIPE CONNECTS TO A PIT, A PERMANENT MARK IS TO BE MADE/INSTALLED INSIDE THE PIT LID TO ALLOW THE IDENTIFICATION OF PLASTIC DRAINAGE LINES.
- 3. PIPE EMBEDMENT IS TO BE IN ACCORDANCE WITH MSAA AND MRWA SEWER STANDARDS.
- 4. PIPE PRODUCT TO BE PLASGAIN OR APPROVED EQUIVALENT POLYPROPYLENE (PP) PIPE. 5. CERTIFICATION OF DESIGN AND INSTALLATION (IN ACCORDANCE WITH AS/NZS 2566.1 AND 2566.2) IS TO BE PROVIDED TO COUNCIL.
- 6. PRIOR TO THE COMMENCEMENT OF WORKS, THE CONTRACTOR IS TO PROVIDE CONSTRUCTION METHODOLOGY TO COUNCIL.
- THE PIPES, IN LINE WITH THE SUBMITTED METHODOLOGY. 8. AN ADDITIONAL HOLD POINT IS REQUIRED AT THE COMPLETION OF THE BEDDING PRIOR TO PLACEMENT OF PIPES TO COUNCIL SATISFACTION IN ADDITION TO THE OTHER EDCM HOLD POINTS.
- 9. PHOTOGRAPHIC EVIDENCE IS REQUIRED OF EACH BACKFILL LAYER (MAX. 300mm LIFTS) BEING CONSTRUCTED AND SUPPLIED TO COUNCIL.
- 10. THE RELEVANT ASSET DATA (A/D/R SPEC) FOR PIPE DETAILS ARE TO BE SUPPLIED TO COUNCIL. 11. A 12-MONTH DEFECT LIABILITY PERIOD WILL APPLY TO ALL PLASTIC DRAINAGE CONSTRUCTION.

OF WORKS. 13. THE CONTRACTOR IS TO UNDERTAKE INSPECTION/PROFILING OF THE PIPE AGAIN 12 MONTHS AFTER THE EXPIRATION OF THE DLP.

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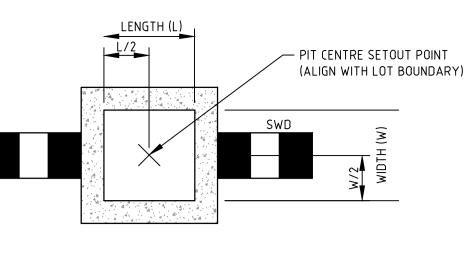
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L6 414 LA TROBE STREET PO BOX 16084 MELBOURNE

ABN 55 050 029 635

Mambourin Designed Checked K. FEARN-WANNAN G. KOHLMAN Date Authorised 03/03/23 G. KOHLMAN

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

2. ALL BACKFILL, MINIMUM PIPE COVER, TRENCH WIDTHS, AND COMPACTING REQUIREMENTS ARE TO BE IN ACCORDANCE WITH THE MRWA SEWER STANDARDS.

MAMBOURIN

ROAD AND DRAINAGE

STAGE 21

7. ON COMMENCEMENT OF THE FIRST PIPE PLACEMENT, AN ONSITE JOINT INSPECTION IS TO BE UNDERTAKEN WITH COUNCIL PRESENT TO VIEW THE HANDLING AND INSTALLATION PROCESS OF

12. THE CONTRACTOR IS TO UNDERTAKE INSPECTION/PROFILING OF THE PIPE (DEFLECTION/OVALITY TESTING) TO COUNCIL SATISFACTION AND PROVIDE CCTV INSPECTION BEFORE COMPLETION

DRAINAGE LONG SECTIONS - SHEET 2 WYNDHAM CITY COUNCIL FRASER PROPERTY LTD PRELIMINARY 309508CR601

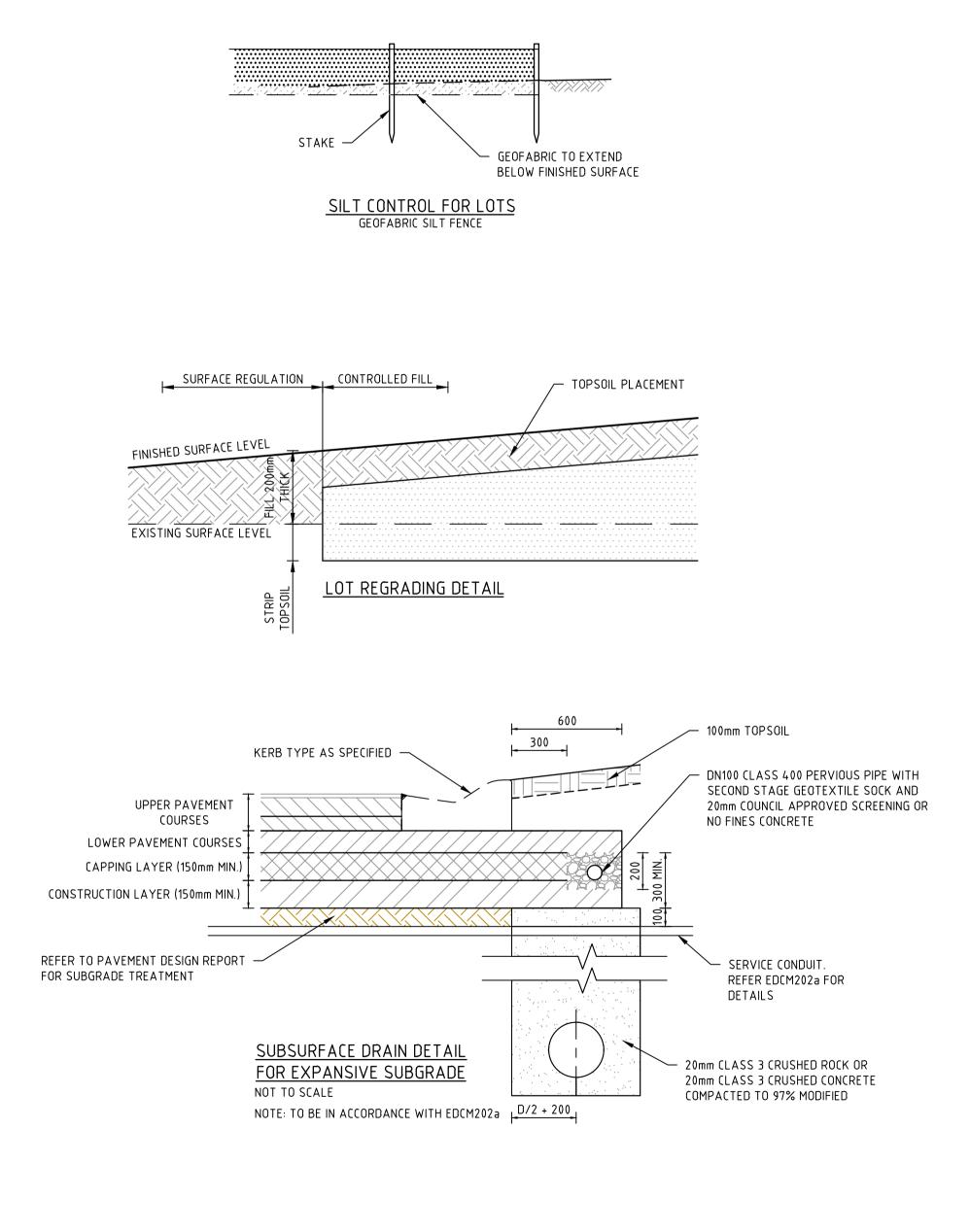
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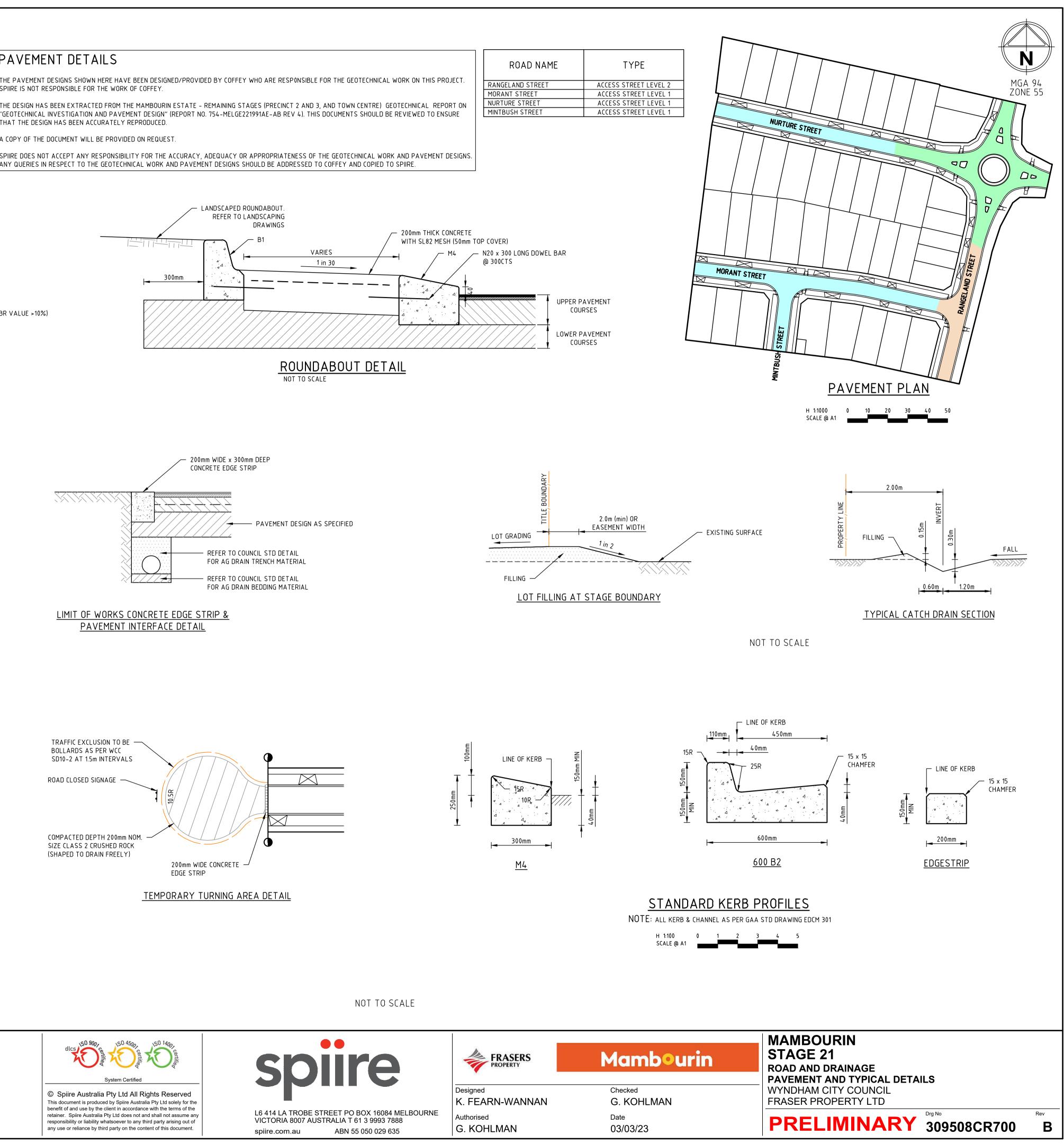
DESIGN PAVEMENT	PROFILE				
	DESCRIPTION		DEPTH (m)		
PAVEMENT LAYER			TYPE D	TYPE G	
UPPER PAVEMENT LAYER					
ASPHALT WEARING COURSE	VICROADS SIZE 14 TYPE H, CLASS 170 BINDER	40			
	VICROADS SIZE 10 TYPE N, CLASS 170 BINDER		40		
	VICROADS SIZE 14 TYPE V, CLASS 320 BINDER			40	
ASPHALT INTERMEDIATE COURSE	VICROADS SIZE 20 TYPE SI, CLASS 320 BINDER	75		75	
ASPHALT BASE COURSE	VICROADS SIZE 20 TYPE SF, CLASS 320 BINDER	75		75	
	VICROADS SIZE 10 TYPE N, CLASS 170 BINDER		40		
	SAMI (SIZE 10 CLASS S18RF)	Y	Y	Y	
	BITUMINOUS PRIME	Y	Y	Y	
LOWER PAVEMENT LAYER					
SUBBASE COURSE	3% CEMENT TREATED CRUSHED ROCK	100		100	
GRANULAR BASE	VICROADS 20mm CLASS 2 CRUSHED ROCK OR EQUIVALENT		110		
GRANULAR SUBBASE	VICROADS 20mm CLASS 2 CRUSHED ROCK OR EQUIVALENT	160		120	
	VICROADS 100mm CLASS 3 CRUSHED ROCK OR EQUIVALENT		140	110	
	VICROADS 100mm CLASS 3 CRUSHED ROCK OR EQUIVALENT		130		
CAPPING LAYER					
CAPPING LAYER	TYPE A MATERIAL, CBR <u>&gt;</u> 8%, SWELL <u>&lt;</u> 1.5%, PERMEABILITY <u>&lt;</u> 5 x 10 ⁻⁹ m/s	150	150	150	
	PAVEMENT DEPTH	600	610	520	
CONSTRUCTION LAYER	TYPE A MATERIAL, CBR $\geq$ 8%, SWELL $\leq$ 1.5%, PERMEABILITY $\leq$ 5 x 10 ⁻⁹ m/s	150	150	150	
	TOTAL DEPTH	750	760	670	

TUTAL DEPTH 750 760 670

SUBGRADE = CLAY WITH DESIGN CBR OF 2%. TO BE IMPROVED TO A DEPTH NOT LESS THAN 150 MM USING SUBGRADE IMPROVEMENT LAYER OR IN-SITU STABILISED WITH A CBR VALUE >10%)



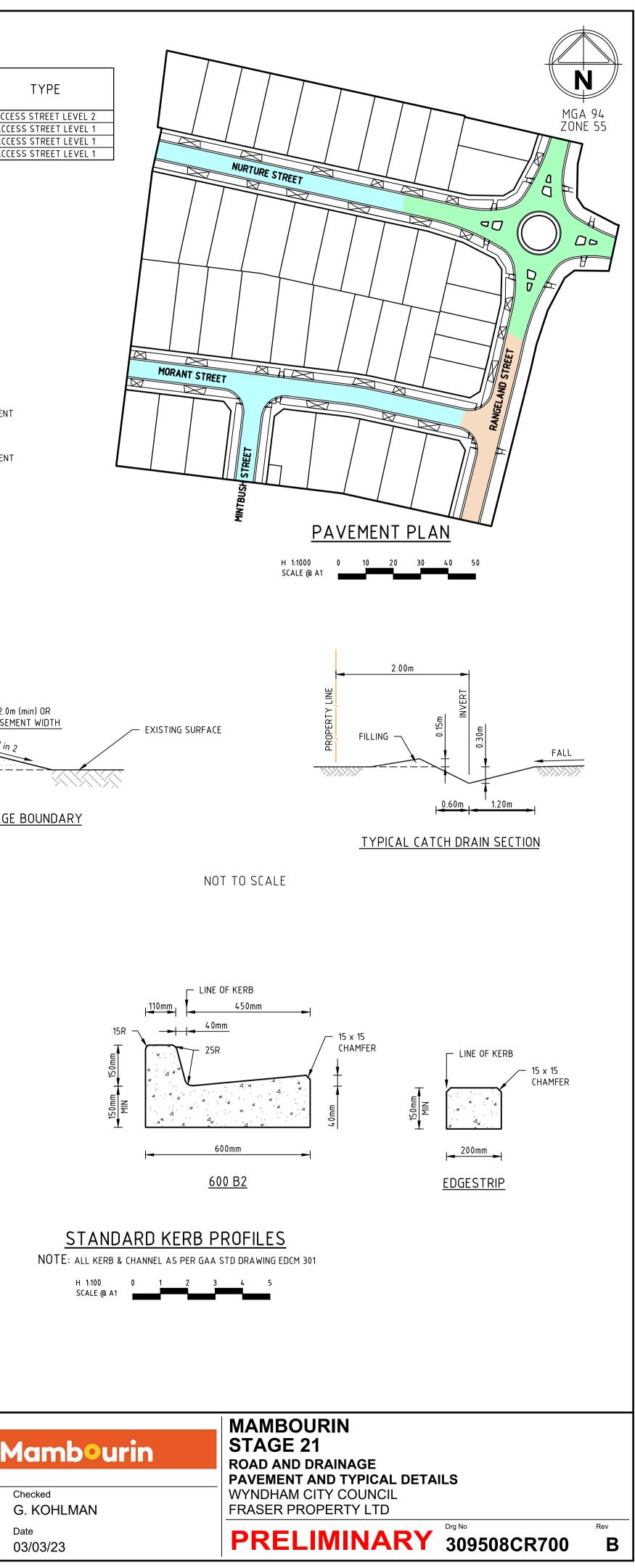
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Authorised G. KOHLMAN

Date 03/03/23



# SIGNAGE SCHEDULE

REFERENCE NO.	SIGN	COMMENTS				
S1		STREET NAME PLATES TO BE IN ACCORDANCE WITH MELTON CITY COUNCIL STANDARD				
S2	ROAD CLOSED	G9-20				
S3	53 D4-					
S4		R2-3(L)				
S5		D4-1-2				
S6		R1-3				
S7	GIVE	R1-2				

# LINEMARKING LEGEND

SYME	BOL	DESCRIPTION	REMARK				
GW		HOLDING LINE (GIVEWAY) 600mm LINE, 600mm GAP, 300mm WIDE					
		CONTINUOUS LANE LINE	150mm WIDE				
	TACTILE GROUND SURFACE INDICATORS REFER AS1428.4.1 –		REFER AS1428.4.1 - 2009				
		RRPM	REFER AS1742.2 - 2009				

STREET SIGNS ARE TO BE MOUNTED ON LIGHT POLES, WITH A COUNCIL APPROVED BRACKET, IN LIEU OF SIGN POLES WHERE THE TWO POLES ARE IN CLOSE PROXIMITY AND WHERE THE STREET SIGN WOULD NOT BE COMPROMISED IN ITS PURPOSE BY

> MAMBOURIN **STAGE 21** ROAD AND DRAINAGE SIGNAGE AND LINEMARKING WYNDHAM CITY COUNCIL FRASER PROPERTY LTD

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