STAGE 5

PROVENANCE ESTATE HUNTLY PROPERTY HOLDINGS PTY LTD

GENERAL NOTES

A. GENERAL

1. ALL WORK TO BE CARRIED OUT TO CITY OF GREATER BENDIGO SPECIFICATIONS, STANDARD DRAWINGS AND TO THE SATISFACTION OF COUNCILS SENIOR SURVEILLANCE OFFICER OR HIS REPRESENTATIVE.

2. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA).

3. THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.

4. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND ONLY RE-TOPSOILED ON THE DIRECTION OF THE ENGINEER, TO THE FINAL FILL LEVELS SHOWN ON THE DRAWINGS. ALL FILLING IS TO BE:

- APPROVED BY THE PROJECT GEOTECHNICAL CONSULTANT. - PLACED IN LAYERS NOT EXCEEDING 200MM LOOSE THICKNESS.
- MOISTURE CONDITIONED TO WITHIN 85% TO 115% OF OPTIMUM MOISTURE CONTENT
- COMPACTED TO A MINIMUM 95% (STANDARD) DRY DENSITY RATIO. - PLACED UNDER "LEVEL 1" SUPERVISION IN ACCORDANCE WITH AS 3798-1996

5. EXISTING DEPRESSIONS & DRAINS TRAVERSING THE SITE ARE TO BE CLEANED OUT AND DESLUDGED TO FIRM BASE AND FILLED TO FINISHED SURFACE LEVELS TO THE SPECIFIED COMPACTION STANDARDS.

6. 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 TBM'S THEREAFTER.

7. POSITION CONDUITS SO THAT A MINIMUM DISTANCE BETWEEN TAPPING IS 1.0M. CONDUITS TO BE LOCATED MIDWAY BETWEEN FENCE LINE OF LOT, UNLESS OTHERWISE SHOWN.

8. BEFORE COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 1.5 M DEEP, THE REQUIRED NOTICE IS TO BE SENT TO THE VICTORIAN WORKCOVER AUTHORITY IN ACCORDANCE WITH THE MINES ACT, 1958 NO 6320 SECTION 385 AND THE OCCUPATIONAL HEALTH AND SAFETY ACT 1985. THIS NOTIFICATION MUST BE RECEIVED BY THE AUTHORITY AT LEAST 3 DAYS PRIOR TO COMMENCING EXCAVATIONS, AND A COPY OF THE NOTIFICATION MUST BE PROVIDED TO THE SUPERINTENDENT.

9. COUNCIL'S REPRESENTATIVE IS TO BE NOTIFIED IN WRITING SEVEN (7) DAYS PRIOR TO THE COMMENCEMENT OF WORKS

10. NO EXCAVATION WITHIN 5M OF ANY EXISTING TREE WITHOUT APPROVAL OF THE ENGINEER.

11. NO BLASTING IS PERMITTED WITHIN THE CITY OF GREATER BENDIGO WITHOUT OBTAINING COUNCIL'S SPECIAL DISPENSATION

12. EXCAVATED MATERIAL SURPLUS TO FILLING REQUIREMENTS OF THE WORKS SHALL BE REMOVED FROM SITE AS SPECIFIED.

13. ALL SURPLUS ROCK, CONCRETE AND BITUMINOUS RUBBLE SHALL BE DISPOSED OFF SITE AS SPECIFIED. THE CONTRACTOR SHALL CHECK WITH SUPERINTENDENT WHETHER ANY LARGE ROCKS ARE REQUIRED FOR LANDSCAPE PURPOSES PRIOR TO DISPOSAL

14. NATURESTRIPS AND ALL AREAS OF CUT OUTSIDE ROAD RESERVE TO BE SURFACED WITH 100MM MINIMUM COMPACTED LAYER OF TOPSOIL.

B. ROAD WORKS

1. FOOTPATHS ARE TO BE 1.5M WIDE UNLESS SHOWN OTHERWISE. FOOTPATHS TO BE CONSTRUCTED TO THE CITY OF GREATER BENDIGO STANDARDS.

2. CONSTRUCT LAYBACK SECTION AT VEHICLE CROSSING, REVERSING BAYS AND CAR PARKING BAYS AND PRAM CROSSING TO THE CITY OF GREATER BENDIGO STANDARDS.

3. ALL CHAINAGES REFER TO ROAD PAVEMENT CENTRELINES EXCEPT IN COURT HEADS AND INTERSECTIONS WHERE CHAINAGES REFER TO BACK OF KERB.

4. THE CONTRACTOR IS REQUIRED TO CONFINE CONSTRUCTION VEHICLES TO THE ROAD RESERVE AND EASEMENTS. ANY DAMAGE CAUSED TO ALLOTMENTS MUST BE MADE GOOD.

5. ALL BATTERS SHALL BE TO THE CITY OF GREATER BENDIGO STANDARDS.

- CUT 1 IN 12 UNLESS OTHERWISE SHOWN. - FILL 1 IN 12 UNLESS OTHERWISE SHOWN.

6. ALL SET OUT INFORMATION GIVEN IS TO LIP OF KERB UNLESS OTHERWISE SHOWN.

7. WHERE CRUSHED ROCK IS SHOWN UNDER CONCRETE FOOTPATHS CONSTRUCTED ON FILL. THE CRUSHED ROCK IS TO BE 20MM CLASS 3. WHERE CUT BATTERS ARE STEEPER THAN 1.6 THEY MUST BE HYDRO MULCHED.

8. SUBGRADE BE COMPACTED TO A MINIMUM OF 98% STANDARD MAXIMUM DRY DENSITY (AS3798), WITH THE SUBBASE COMPACTED IN ACCORDANCE WITH SCALE C INVICROADS TABLE 304.071 USING FINE CRUSHED ROCK AND THE BASE COURSE TO 100% MINIMUM MODIFIED DRY DENSITY. ANY FILLING BENEATH ROAD PAVEMENT AREAS TO BE COMPACTED TO 100% OF MAXIMUM DRY DENSITY.COMPACTION TESTING TO BE AS PER COUNCIL REQUIREMENTS.

9. ANY BACKFILL WITHIN 1.0M OF A COUNCIL ASSET (FOOTPATH OR ROAD) IS TO BE FCR. FILL MATERIAL IS ACCEPTABLE IF COMPACTED TO ENSURE 95% COMPACTION. COMPACTION TESTING TO BE PERFORMED AT ONE PER 60M OF TRENCH.

10. CONCRETE TO HAVE 28DAY STRENGTH OF 25MPA UNLESS NOTED OTHERWISE



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.

В	AMENDED AS PER COUNCIL COMMENTS	B. I.	FEB 2022
А	PRELIMINARY ISSUE	B. I.	JUL 2021
Rev	Amendments	Approved	Date

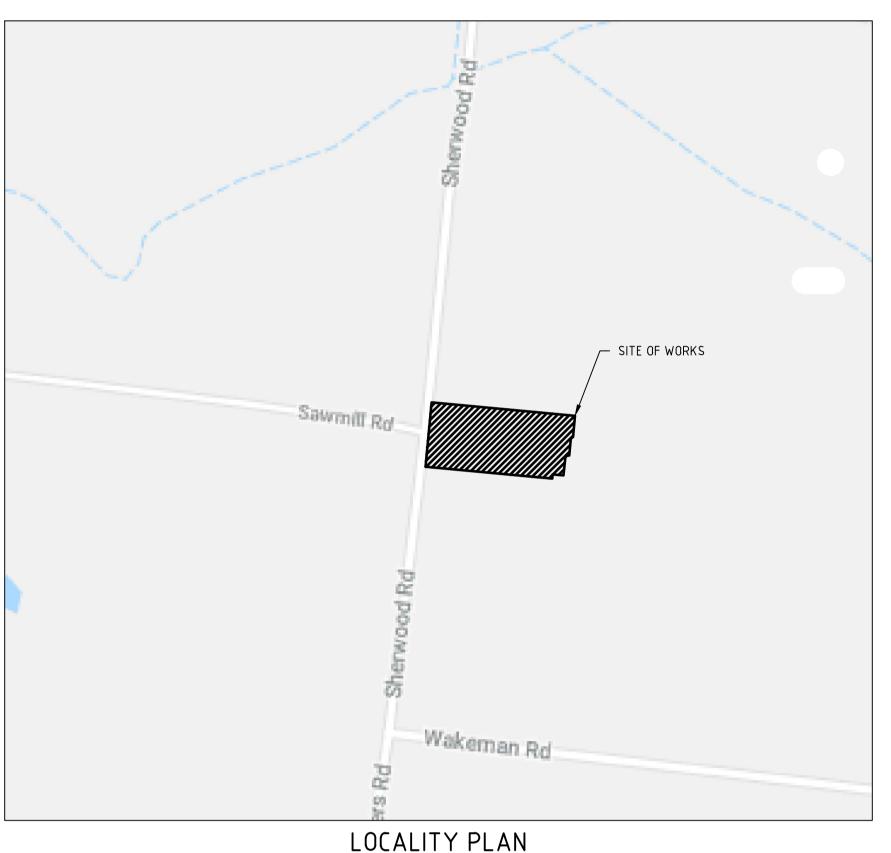
APPROVED DRAINAGE PLAN

PLANNING AND ENVIRONMENT ACT 1987 GREATER BENDIGO PLANNING SCHEME

NO: DS/568/2020 Stage 5

Delegated Officer: Liz Commadeur For and on behalf of the City of Greater Bendigo

Date: 9 March 2022 Page 1 of 19 All of this Document





DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
CR100	GENERAL NOTES – SHEET 1	1	В
CR200	ROAD LAYOUT PLANS - SHEET 1	2	В
CR201	ROAD LAYOUT PLANS - SHEET 2	3	В
CR300	ROAD LONG SECTIONS - SHEET 1	4	(в)
CR301	ROAD LONG SECTIONS - SHEET 2	5	В
CR400	ROAD CROSS SECTIONS - SHEET 1	6	В
CR401	ROAD CROSS SECTIONS - SHEET 2	7	В
CR402	ROAD CROSS SECTIONS - SHEET 3	8	В
CR403	ROAD CROSS SECTIONS - SHEET 4	9	(A)
CR500	INTERSECTION DETAILS – SHEET 1	10	В
CR501	INTERSECTION DETAILS - SHEET 2	11	В
CR502	INTERSECTION DETAILS – SHEET 3	12	В
CR503	INTERSECTION DETAILS - SHEET 4	13	В
CR600	DRAINAGE LONG SECTIONS - SHEET 1	14	В
CR601	DRAINAGE LONG SECTIONS - SHEET 2	15	В
CR602	DRAINAGE LONG SECTIONS - SHEET 3	16	В
CR700	PAVEMENT AND TYPICAL DETAILS – SHEET 1	17	A
CR800	SIGNAGE AND LINEMARKING – SHEET 1	18	А
CR801	SIGNAGE AND LINEMARKING - SHEET 2	19	А

SERVICE LOCATION TABLE

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MGA 94

ZONE 55

ROAD NAME		ABLE TER	G	۹S		BN ECOM)		ELECT	RICITY	
	CIDE	OFFCET	SIDE	OFFOFT	CIDE	OFFCFT	PC	DLE	U/G (CABLE
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET
KINGSLEY PROMENADE	Ν	2.40	Ν	1.90	S	2.90	S	x1.1	S	3.40
CROWLEY STREET	W	2.40	W	1.90	E	1.90	E	x1.1	E	2.40
GRIMSHAW STREET	W	2.40	W	1.90	E	1.90	E	x1.1	E	2.40
LEIST STREET	W	2.40	W	1.90	E	1.90	E	x1.1	E	2.40
GREGSON STREET	W	2.40	W	1.90	E	1.90	E	x1.1	E	2.40
HESTER STREET	W	2.40	W	1.90	E	1.90	E	x1.1	E	2.40
1. TELECOMMUNICATIONS AND ELECTRICITY CABLES 1	O BE CON	STRUCTED	IN A COMI	MON TRENC	H IN ACCO	IRDANCE W	ITH ELECT	RICITY AU	THORITY	STANDARD

) DRG's. 2. GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.

3. × = OFFSET FROM BACK OF KERB



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spiire.com.au ABN 55 050 029 635 Designed Checked H. OAKLEY-WARREN B. IBBS Authorised Date JUL 2021 C. CLARKE

GREATER BENDIGO CITY COUNCII GB 4533D ENGINEERING PLANS LEGEND DESCRIPTION EXISTING WATER MAIN, VALVE AND HYDRANT

APPROVED BY: Peter Brasier DATE: 09 March 2022 PROPOSED — — <u>DW</u> — — — — — — OF — -⊗- — — — OF — OF — •

— GW ——

- 168.90 —

F124.68

T124.80

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CH116.57

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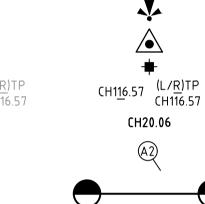
------ 169.00 ------

(Ex.47) — GW —

— — - 168.90 - — E123.45 T124.80

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-CH116.57 (L/R)TP CH116.57 CH20.06



_____ **____ ____ ____**



FILLING GREATER THAN 0.20m

EXCAVATION GREATER THAN 0.20m

ROCK BEACHING FENCE - TREE PROTECTION FENCE – VEHICLE EXCLUSION FENCES

WATER RECYCLED

SEWER RISING MAIN CENTRAL INVERT

HOUSE DRAIN

OPTIC FIBRE GAS MAIN

UNDERGROUND ELECTRICITY

OVERHEAD ELECTRICITY & POLE

TELECOMMUNICATIONS & SERVICE PIT

SEWER & MAINTENANCE STRUCTURE

COUNCIL STORMWATER DRAIN AND PIT

STORM WATER DRAINAGE PIT NUMBER

COUNCIL STORM WATER PITS

GAS & WATER CONDUITS

CONCRETE VEHICLE CROSSING

RIDGE / CHANGE OF GRADE LINE

SURFACE CONTOUR MINOR

SURFACE CONTOUR MAJOR

BATTER LEVEL (TOP / TOE)

LIGHT & POLE (BY OTHERS)

PERMANENT SURVEY MARK

TEMPORARY BENCH MARK

EARTHWORKS GRADE

SURFACE LEVEL

SIGN AND POST

STREET SIGN

BOLLARD

ROAD CHAINAGES

LOT CHAINAGES

SETOUT POINT

LIMIT OF WORKS

BATTER

TREE (& SURVEYED CANOPY) TO BE RETAINED

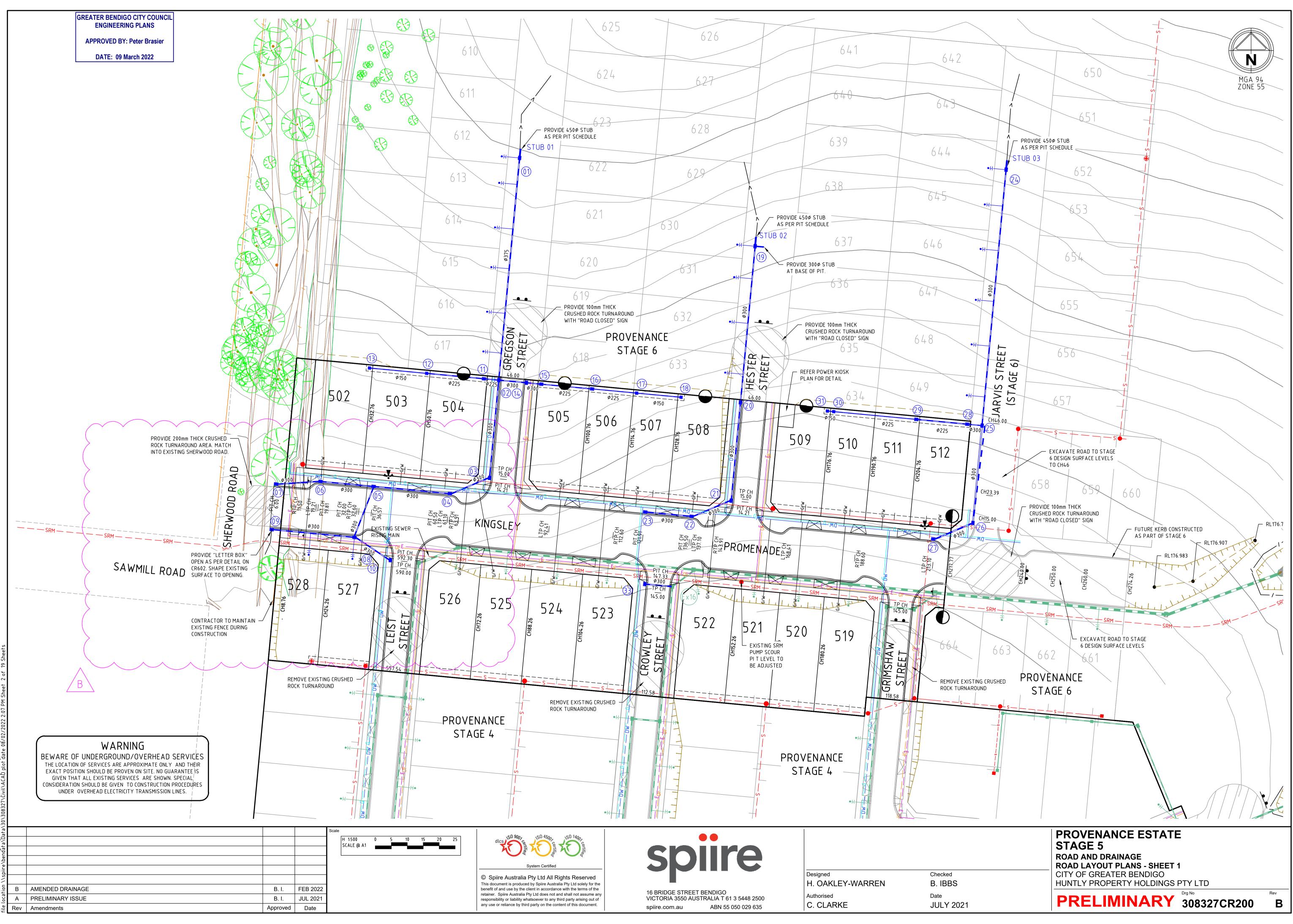
TREE TO BE PROTECTED

TREE TO BE REMOVED

VEGETATION LINE FOOTPATH TACTILE GROUND SURFACE INDICATOR KERB TRANSITION

B2 SM2

PROVENANCE ESTATE STAGE 5 ROAD AND DRAINAGE GENERAL NOTES - SHEET 1 CITY OF GREATER BENDIGO HUNTLY PROPERTY HOLDINGS		
PRELIMINARY	Drg No 308327CR100	Rev B



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?OAD

PROVENANCE

				Scale								
					H 1:500	0	5	10	15	20	25	
					SCALE @ A1							
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												© This
В	AMENDED FRONT OF LOT LEVELS	B. I.	FEB 2022									bene
А	PRELIMINARY ISSUE	B. I.	JUL 2021									retai resp
Rev	Amendments	Approved	Date									any

STAGE 4



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

Designed H. OAKLEY-WARREN Authorised C. CLARKE

Checked B. IBBS Date JULY 2021

GREATER BENDIGO CITY COUNCIL ENGINEERING PLANS

APPROVED BY: Peter Brasier

DATE: 09 March 2022

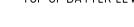
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LEGEND

- TOP OF BATTER LEVELS
- FS XXX.XX

TB XXX.XX



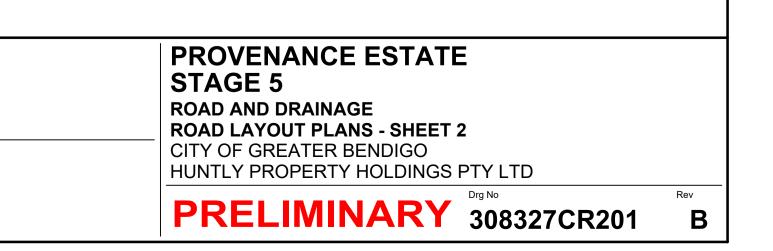
- FINISHED SURFACE LEVELS (AT BOUNDARY)
- ES XXX.XX



EXCAVATION GREATER THAN 200mm

EXISTING SURFACE LEVELS (AT BOUNDARY)

FILLING GREATER THAN 200mm



				Scale								
					H 1:500 SCALE @ A1	0	5	10	15	20	25	
					V 1:50	0	0.5	1	1.5	2	2.5	
	AMENDED ROAD LONG SECTIONS	B. I.	FEB 2022									
	PRELIMINARY ISSUE	B. I.	JUL 2021									
v	Amendments	Approved	Date									

KINGLSEY PROMENADE

	SHERWOOD ROAD	⊢ =-	LEIST S	REET		GRE	EGSON STREE	T		H	CROWLEY STREET	► - H	ESTER STREET	⊢ I			╞╼───	GRIMSHA	W STREET							
RTICAL GEOMETRY SIGN GRADELINE	30.00m VC	30.00m VC				-	0.50%					0.50%										-0) \(\varpa\) 0%				
ATUM RL 174.5																										
ESIGN CENTRELINE	177.523 177.555 177.555 177.597 177.611 177.650	177.662 177.672 177.716 177.759 177.766	177.769 177.778 177.776 177.766 177.759	177.732 177.723	177.686 177.680 177.666	177.663 177.625	177.586	177.545 177.524	177.486 177.482 177.465	177.426 177.423	177.412 177.386 177.376 177.386 177.410 177.430	111.486 177.460 177.486 177.486	177.528	177.586 177.575 177.564	177.523 177 5.06	000-11 177.505	1171.466 177.463 177.453	177.407 177.406	177.383 177.363	177.341 177.333 177.317	177.306	11.1.202	177.106	177.035	176.906	176.885
EFT DESIGN LIP OF KERB			177.534 177.534 177.533 177.533 177.522 177.515		177.442			177.280	177.242 177.239 177.221	183	177.169 177.142 177.133 177.143 177.143 177.167 177.186	607.771		177.321	177.279		177.223 177.220 177.209	163 163	139	177.097			176.863	176.792	176.663	176.642
GHT DESIGN LIP OF KERB	177.279 177.312 177.353 177.353 177.353	177.419 177.428 177.473 177.473 177.516 177.523 177.525			177.423	177.420 177.381	177.342	177.301	177.242 177.239 177.221	177.183 177.183		177.243	177.284	c2c.111 177.343 177.332 177.321	177.279		117.223				177.063	112,463	176.863	176.792	176.663	176.642
SURFACE LEFT BOUNDARY			176.932 176.956 176.963 176.958 176.958	176.944 176.953	176.953 176.953 176.951			177.030	177.115 1177.128 177.186		315 413 429 458 492 492 511	117.541		177.602 177.597 177.592	177.608		117.594 177.594 177.590	177.572 177.571	177.562 177.554	177.542 177.537		474-17	177.266	177.163		
K SURFACE RIGHT BOUNDARY		177.562 177.542 177.537 177.539 177.558 177.558			177.549 177.548 177.556		177.604	177.661 177.697	177.764 177.771 177.801			178.033 178.052	178.089	178.117 178.120 178.122 178.122	178.127		178.102 178.100 178.093			177.996	177.980	c+88.111	177.639	177.490		
HAINAGE	8.755 8.755 11.505 14.476 15.429 18.255			50.755 52.605	60.000 61.098 63.912		80.000	88.256 92.412	100.000 100.755 104.255			137.098 138.655 140.000 143.912	152.255	164.000 164.255 168.412	176.755 180 000		187.998 188.598 190.755	199.905 200.000	204.755 208.605	213.098 214.655 217.770	220.000	740.000	260.000	274.260	300.000	304.285

SHERWOOD
ROAD

 $\checkmark \checkmark \checkmark \checkmark \checkmark$

LEIST STREET

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					ST	AGE		WORKS	-	STAGE 5		, , , , ,	ł	KIN PRC		SEY NADI	
RTICAL GEOMETRY										30.00	m v	/C					
IGN GRADELINE						$\left\langle - \right\rangle$	-2.00%			>	~	-1.009	%			3.3	3%
rum RL 175.5						\langle							l				
IGN CENTRELINE	178.813	178.784	178.563	178.533	178.504	178.367	178.213	178.163	178.106	177.843	177.812	177.686	111.002	مده.//۱	177.585	177.571	177.745
T DESIGN LIP OF KERB	178.698	178.669	178.448	178.418	178.389	178.252	178.098	178.048	177.991	17.729	177.697	177.571					
IT DESIGN LIP OF KERB	178.698	178.669	178.448	178.418	178.389	178.252	178.098	178.048	177.991		177.697	177.571					
SURFACE LEFT BOUNDARY	179.132	179.101	178.868	178.836	178.806	178.662	470		178.336		177.876	177.645					
SURFACE RIGHT BOUNDARY	179.084	179.051	178.796	178.761	178.731	178.585	410	-	178.288		177.893	177.642					
INAGE		528.959	540.000	541.539	542.959	549.811	539	-	562.879		580.000		702.27C	618.760	600.000	601.339	606.539



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Designed H. OAKLEY-WARREN Authorised C. CLARKE

Checked B. IBBS Date JULY 2021 B

CROWLEY STREET

				STA	GE	4	$\left\langle \right\rangle$	LIMIT OF	WORKS	ST	AGE 5						
															KINGLS		
ERTICAL GEOMETRY							$\left\langle \right\rangle$		30.00	0 m 1	√C>	-					
ESIGN GRADELINE				-18	0%	-	$\langle \rangle$		>	-		-2.889	6		>	3.33	%
DATUM RL 175.0						5	5				}						
ESIGN CENTRELINE	178.966	178.940	178.688	178.652	178.579	178.562	178.562	178.413	178.268	178.247	177.877	177.706	177.562	177.495	177.235	177.355	177.408
.EFT DESIGN LIP OF KERB	178.851	178.825	178.573	178.537	178.464	178.447	178,447	178.298	178.153	178.132	177.762	177.591	177.447				
	178.851	178.825	178.573	178.537	178.464	178.447	J78.44N	178.298	178.153	178.132	177.762	177.591	177.447				
RIGHT DESIGN LIP OF KERB		.087	178.795	178.758	178.688	178.672	178.672	178.542	178.424	178.410	178.187	178.085	177.993				
RIGHT DESIGN LIP OF KERB	179.117	179.08	178	· 1			71		~	8	0	. +	31				
	1 179.190 179.117	179.160 179.0	178.878	178.841	178.771	178.755	178.754	178.620	178.502	178.488	178.270	178.174	178.081				

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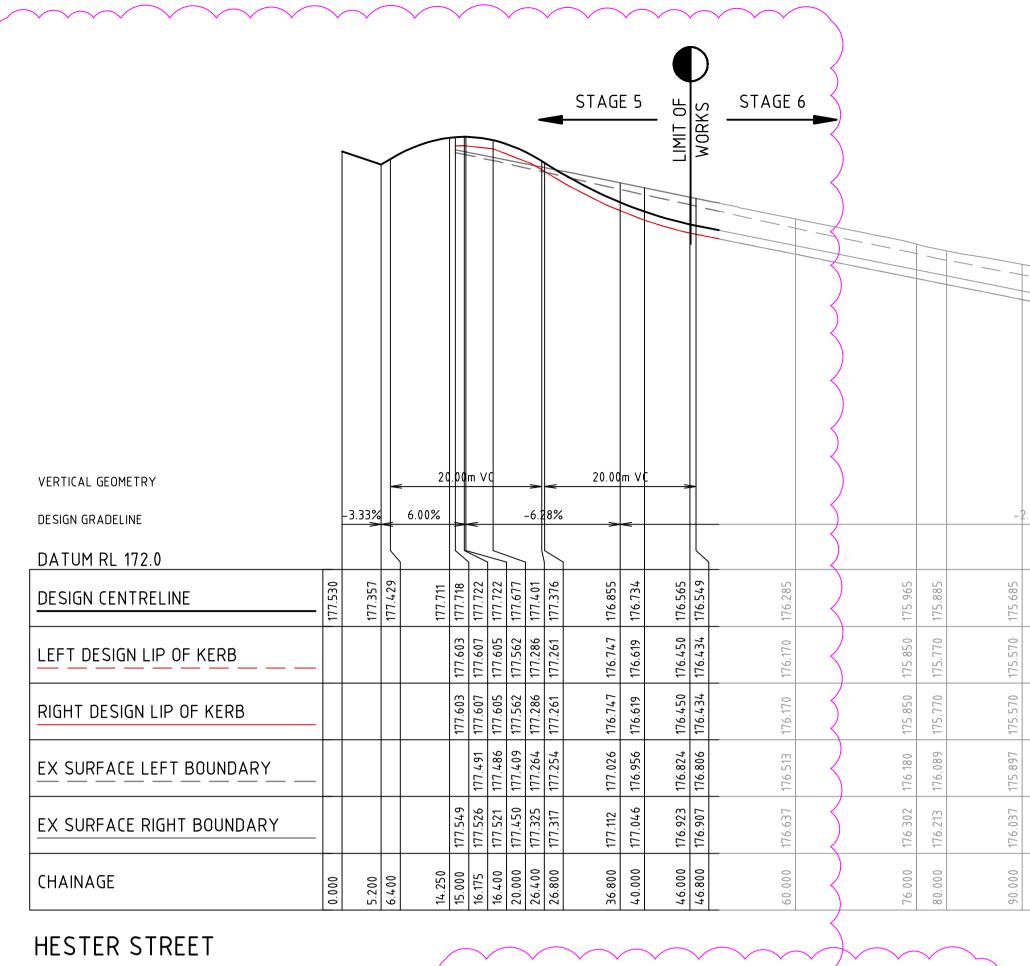
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PRELIMINARY 308327CR300 B

PROVENANCE ESTATE STAGE 5 ROAD AND DRAINAGE **ROAD LONG SECTIONS - SHEET 1** CITY OF GREATER BENDIGO HUNTLY PROPERTY HOLDINGS PTY LTD

APPROVED BY: Peter Brasier DATE: 09 March 2022

GREATER BENDIGO CITY COUNCIL ENGINEERING PLANS



HESTER STREET

										D)					_	В			
							STA	GE 4	LIMIT OF)	STAGE 5								
																			1	
VERTICAL GEOMETRY				-1.5	0%		30.00	mVC			>	-3.10%						3.5	38%	
DESIGN GRADELINE							>	<				<u> </u>						->		
DESIGN CENTRELINE	179.209	179.130	179.055	179.029	178.935	178.924	178.769	178.656	178.4.93	178.452	178.364		1///.833	177.678	177.607	777587		177.270 000000000000000000000000000000000	177.385	
LEFT DESIGN LIP OF KERB	179.094	179.015	178.940	178.914	178.820	178.808	178.653	178.539	178.378	+	8.249		1//./18	177.563						
RIGHT DESIGN LIP OF KERB	179.094	179.015	178.940	178.914	178.820	178.808	178.653	178.539	178.378	178.337	178.249		1//./18	177.563						
EX SURFACE LEFT BOUNDARY	179.335	179.246	179.161	179.133	179.041	179.031	178.889	178.800	178.685	178.658	178.601		1/8.242	178.153						
EX SURFACE RIGHT BOUNDARY	-	179.192	179.112	179.077	178.963	178.951	178.798	178.708	178.589	178.561	178.503		1/8.183	178.096						
CHAINAGE	82.580	87.900	92.902	94.580	100.000	100.580	107.902	112.580	118.580	120.000	122.902		14.0.000	145.000	147.280	14.7.930		158.130	161.580	

GRIMSHAW STREET

				Scale							-0.00 -0.45 -0.14
				H 1:500 SCALE @ A1	0	5	10	15	20	25	dlcs
				V 1:50	0	0.5	1	1.5	2	2.5	
											System Certified
											© Spiire Australia Pty Ltd All Rights Reserved This document is produced by Spiire Australia Pty Ltd solely for the
	AMENDED ROAD LONG SECTIONS	B. I.	FEB 2022								benefit of and use by the client in accordance with the terms of the
	PRELIMINARY ISSUE	B. I.	JUL 2021								retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of
/	Amendments	Approved	Date								any use or reliance by third party on the content of this document.

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175.685	175.600	175.580	175.485	175.365	175.085	174.805	174.685	174.565
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0	5	5	0	0	0/	0 €	0	20
5.7	.48	.4	5	.25	6.	59	Ŀ.	4.
175.570	175.485	175.465	175.370	175.250	174.970	174.690	174.570	174.450
175.570	175.485	175.465	70	50	174.970	174.690	174.570	174.450
.0	5.4	5.4	175.370	175.250	6.4	9.4	4.5	4.4
17	17	17.	171	17	17	17	17	17
397	314	194	969	568	271	976	852	135
175.897	175.814	175.794	175.696	175.568	175.271	174.976	174.852	174.735
17	17	17	17	17	1	17	17	17
	0	2	<u></u>	2	0			
176.037	175.953	175.932	175.831	175.702	175.410	175.132	175.017	
76.	75.	75.	75.	75.	75.	75.	75.	
	-	-	-					
0	0		0	0	0	0(00	00
90.000	94.250	95.250	100.000	106.000	120.000	134.000	14.0.000	146.000
90.	94.	95.	100	106	120	134	14 (146
	_	-						

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	<u> </u>				STAC	GE 5	LIMIT OF WORKS	STAGE	6	1											
			11																		
VERTICAL GEOMETRY			20.00				20.00m \	15								VC					
VENTICAL ULUTIETRI		<	20.00		->	<	20100111 \	<u> </u>					<		30.00m \			>			
DESIGN GRADELINE	-3.33%	- 6.	00%		-6.00%	<					-2.00%	6	<		30.0µm \			-1.00	%		
DESIGN GRADELINE	-3.33%	6.			-6.00%	<					-2.00%	6			30.00m			-1.00	%		
DESIGN GRADELINE	< >	9. 0.	00%	177.768 M		176.756 A	176.373 176.328 176.256 176.256	956	175.911	175.671	175.591	5.391	175.311 175.280	175.14.9 175.123	026		174.859	174.830	795 /	4.7	4.6
DESIGN GRADELINE	< >		00%	-	177.468	176.510 176.625 A	373 328 v 256 v	956	5.796 175	5.6	591 511	5.276 175.391	MN	5.14	175.026 175.018 175.018	819 174.934	4.744 174	174.830	4.680 174.795 /	4.590 174.7	4.540 174.6 4.530 174.6
DESIGN GRADELINE DATUM RL 172.0 DESIGN CENTRELINE	< >		00%	653 177.768 602 177.717	177.353 177.468		6.258 176.373 6.213 176.328 76.328 76.328 76.328 76.145 176.256 77	841 175.841 175.956 V 806 175.806 175.921	796 175.796 175	5.556 175.6	5.476 175.591 5.396 175.511	276 175.276 175.391	5.196 175.3 5.165 175.2	5.034 175.14 5.008 175.12	4.911 175.026 V 4.903 175.018 V	819 174.819 174.934	744 174.744 174 733 174.733 174	4.715 174.830	680 174.680 174.795	4.590 174.590 174.7	4.540 174.540 174.6 4.530 174.530 174.6
DESIGN GRADELINE DATUM RL 172.0 DESIGN CENTRELINE LEFT DESIGN LIP OF KERB	< >		886 177.761 %00 177.761	653 177.653 177.768 A 602 177.602 177.717	639 177.353 177.468	176.641 176.510	258 176.258 176.373 213 176.213 176.328 145 176.145 176.256	175.841 175.841 175.956 V	958 175.796 175.796 175	556 175.556 175.6	476 175.476 175.591 396 175.396 175.591	5.515 175.276 175.276 175.391	175.196 175.3 175.165 175.2	034 175.034 175.14 008 175.008 175.12	911 174.911 175.026 v 903 174.903 175.018 v	174.819 174.819 174.934	996 174.74.4 174.74.4 174. 985 174.733 174.733 174.	715 174.715 174.830	925 174.680 174.680 174.795 /	820 174.590 174.590 174.7	772 174.540 174.540 174.64 762 174.530 174.530 174.6
DESIGN GRADELINE DATUM RL 172.0 DESIGN CENTRELINE LEFT DESIGN LIP OF KERB RIGHT DESIGN LIP OF KERB	< >		177.761 %00 176.886 177.766	867 177.653 177.653 177.768 A	176.639 177.353 177.468	176.373 176.641 176.641 176.334 176.510 176.510	239 176.258 176.258 176.373 220 176.213 176.328 7 188 176.145 176.145 7	995 175.841 175.841 175.956 V 966 175.806 175.806 175.921	175.958 175.796 175.796 175	5.754 175.556 175.556 175.6	686 175.476 175.476 175.591 618 175.306 175.306 175.301	5.479 175.515 175.276 175.276 175.391	4.45 175.196 175.196 175.3 4.19 175.165 175.165 175.2	286 175.034 175.034 175.14 254 175.008 175.008 175.12	174.911 174.911 175.026 174.903 174.903 175.018	175.081 174.819 174.819 174.934	950 174.996 174.744 174.744 174. 932 174.985 174.733 174.733 174.	4.901 174.965 174.715 174.715 174.830	853 174.925 174.680 174.680 174.795	4.727 174.820 174.590 174.590 174.7	174.540 174.540 174. 174.530 174.530 174.

GREGSON STREET





spiire.com.au

ABN 55 050 029 635

Designed	Checked
H. OAKLEY-WARREN	B. IBBS
Authorised C. CLARKE	^{Date} JULY 2021

GREATER BENDIGO CITY COUNCIL ENGINEERING PLANS

APPROVED BY: Peter Brasier

DATE: 09 March 2022

	PROVENANCE ESTATE	
	STAGE 5	
	ROAD AND DRAINAGE	
_	ROAD LONG SECTIONS - SHEET 2	
	CITY OF GREATER BENDIGO	
	HUNTLY PROPERTY HOLDINGS PTY LTD	
	Drg No	Rev
	PRELIMINARY 308327CR301	В

											-
				Scale							
				H 1:10	0	1	2	3	4	5	
				SCALE		A 5		45			
				V 1:50	0	0.5	1	1.5	2	2.5	
В	AMENDED ROAD CROSS SECTIONS	B. I.	FEB 2022								
А	PRELIMINARY ISSUE	B. I.	JUL 2021								
Rev	Amendments	Approved	Date								

LEIST S	STREE
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		<u>-1 in</u>	4 0	1in_20	Ľ	1 in 30	1 in 30		- <u>1</u> ii
DATUM R.L.177.0									
DESIGN SURFACE LEVEL	178.374	178.373	178.335	178.208	178.098	178.213	178.098	178.208	
EXISTING SURFACE LEVEL	178.470	178.470	178.470	178.470	178.468	178.454	178.436	178.433	
OFFSET	-8.000	-7.950	-6.450	-3.900	-3.450	0.000	3.450	3.900	

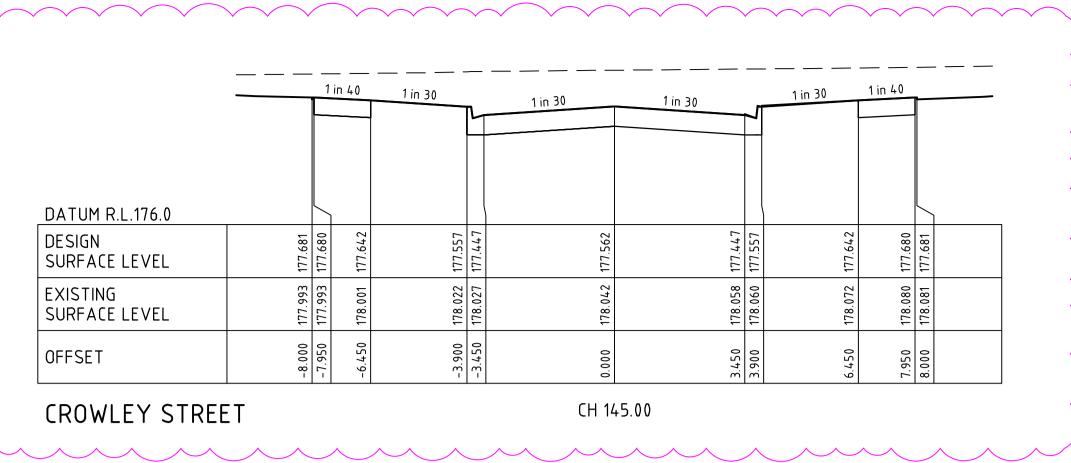
		1 in	40	1 in 20	Ł	<u>1</u> in 30	<u>1 in 30</u>		1 in
_DATUM R.L.176.0									
DESIGN SURFACE LEVEL	177.847	177.846	177.809	177.681	177.571	177.686	177.571	177.681	
EXISTING SURFACE LEVEL	177.645	177.645	177.644	177.642	177.642	717.617	177.623	177.624	
OFFSET	-8.000	-7.950	-6.450	-3.900	-3.450	0.000	3.450	3.900	
LEIST STREET						CH 59	90.00	<u>.</u>	<u>.</u>

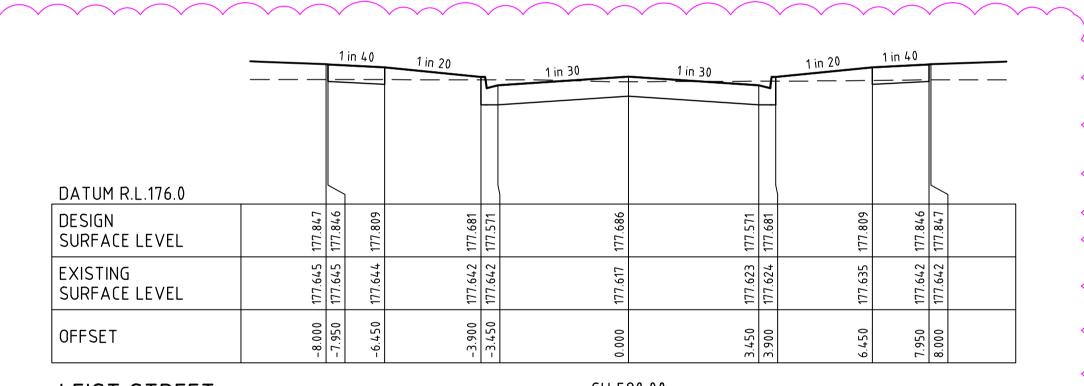
CROWLEY STREET

CH 112.58

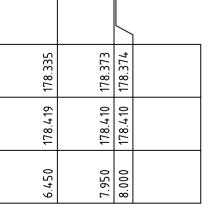
	1	<u>in 40</u>	1 _in_3 0		1 in 30	1 in 30		1 in 30	<u>-1 in 40</u>		
DATUM R.L.177.0											
DESIGN SURFACE LEVEL	178.532 178.530	178.493	178.408	178.298	178.413	178.298	178.408	178.493	178.530	178.532	
EXISTING SURFACE LEVEL	178.542 178.542	178.549	178.562	178.564	178.582	178.599	178.601	178.613	178.620	178.620	
OFFSET	-8.000 -7.950	-6.450	-3.900	-3.450	00000	3.450	3.900	6.450	7.950	8.000	

		1 in 40	1 in 30	4	1 in 30	1 in 30	\uparrow
DATUM R.L.176.0		}					
DESIGN SURFACE LEVEL	177.681 177.681	177.642	177.557	177.447	177.562	771,447	177 557
EXISTING SURFACE LEVEL	177.993	178.001	178.022	178.027	178.042	178.058	178 060
OFFSET	-8.000 7 950	-6.450	-3.900	-3.450	0.000	3,450	2 000





1 in 20 <u>1 in 40</u>



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

Designed	Checked
H. OAKLEY-WARREN	B. IBBS
Authorised C. CLARKE	^{Date} JUL 2021

	0.05m		1.5m PATH	2.65m NATURE STRI	0.49 5- -			3.
					-	- 7	.30m CARF	RIAGEWAN
		1	in 40	1 in 30	┯	1 in 3() 	1
DATUM R.L.175.0		L						
DESIGN SURFACE LEVEL	176.447	176.446	176.408		176.213		176.328	
EXISTING SURFACE LEVEL	176.220	176.220	176.220		176.220		176.220	
OFFSET	-8.000	-7.950	-6.450		-3.450		0.00.0	
GREGSON STREE	Т						CH 4	6.00

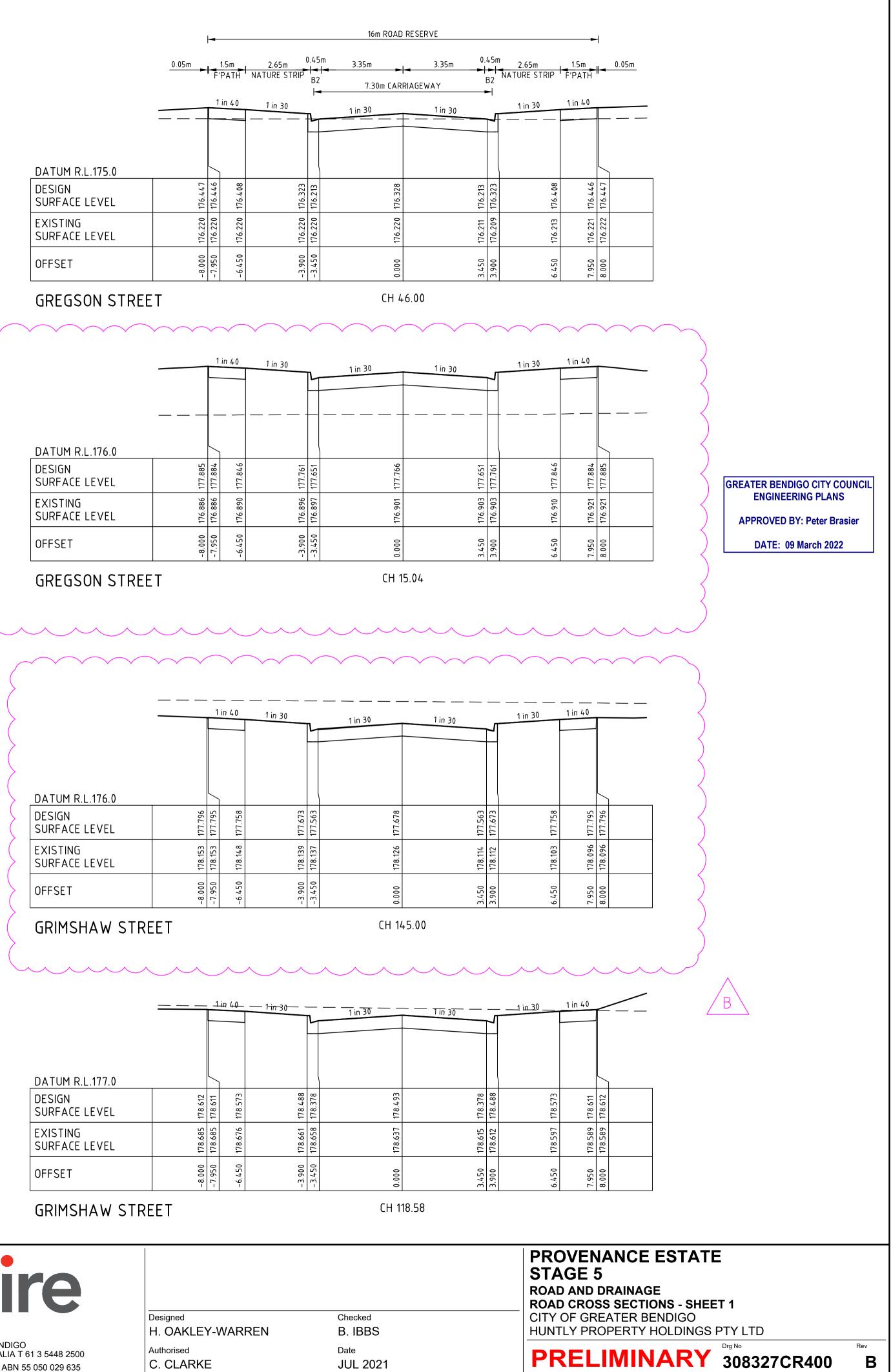
			1 in 30	-	1 in 30	_
				Ц		-
	1					
177.885	177.884	177.846	177.761	177.651	177.766	
176.886	176.886	176.890	176.896	176.897	176.901	
-8.000	-7.950	-6.450	-3.900	-3.450	0.000	
	176.886	176.886 176.886	176.886 176.886 176.886 176.886	176.896 176.896 176.890	176.886 176.886 176.890 176.890 176.896 176.896	0 176.886 0 176.886 0 176.890 0 176.896 0 176.896 0 176.897 176.897

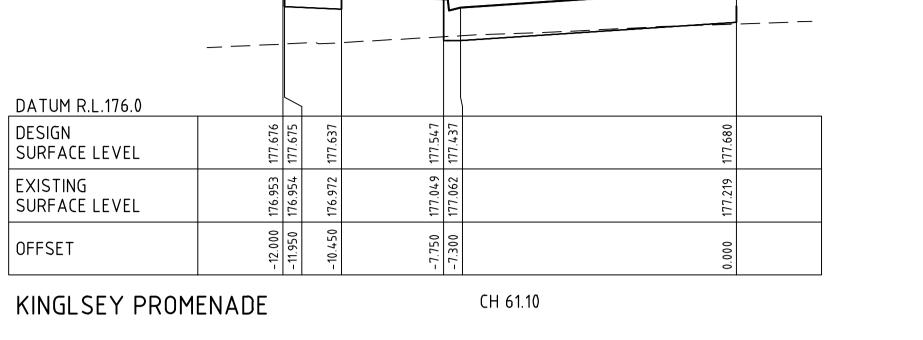
		1	 in 40	1 in 30		1 in 30	
					Ľ		
DATUM R.L.176.0		\leq					
DESIGN SURFACE LEVEL	177.796	177.795	177.758	577 TT	177.563	177.678	
EXISTING SURFACE LEVEL	178.153	178.153	178.148	178 139	178.137	178.126	
OFFSET	-8.000	-7.950	-6.450	006 8-	-3.450	000000000000000000000000000000000000000	
GRIMSHAW STRE	ET					CH 1	45.00

	<u> </u>	1	in 40	— 1 -in 3 0—	Γ	1 in 30	
DATUM R.L.177.0							
DESIGN SURFACE LEVEL	178.612	178.611	178.573	178.488	178.378	178.493	
EXISTING SURFACE LEVEL	178.685	178.685	178.676	178.661	178.658	178.637	
OFFSET	-8.000	-7.950	-6.450	- 3.900	-3.450	0.000	

GRIMSHAW STREET

CH 118.58





1 in 30

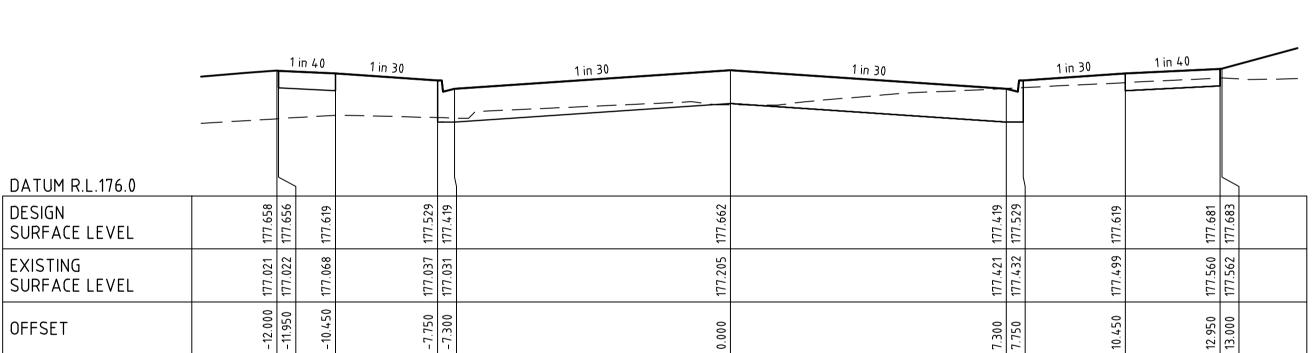
 \checkmark

1 in 30

1 in 40

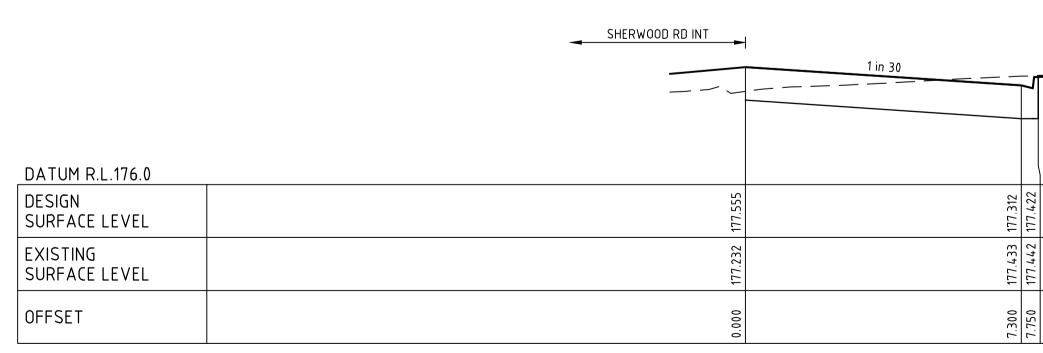
		1 in	40 1 in 3(1 in 30 1 in 30		1 in 30	1 in 40
DATUM R.L.176.0								
DESIGN SURFACE LEVEL	177.764	177.763	177.725	177.635 177.525	177.768	177.525 177.635	177.725	177.788
EXISTING SURFACE LEVEL	176.934	176.935	176.965	177.067 177.077	177.220	177.406 177.421	177.491	177.556
OFFSET	-12.000	-11.950	-10.450	-7.750 -7.300	0.000	7.300 7.750	10.450	12.950
KINGLSEY PROM	IENADE			·	CH 32.60			
		1 in	<u>40</u> 1 in 3()	1 in 30 1 in 30		1 in 30	1 in 40

LEIST STREET INT



CH 19.21

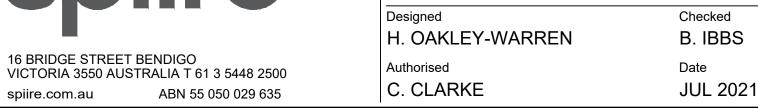




KINGLSEY PROMENADE

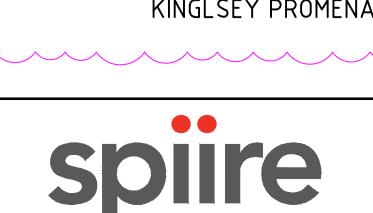
H 1:100 0 1 2 3 4 5 SCALE @ A1 V 1:50 0 0.5 1 1.5 2 2.5 SCALE @ A1 AMENDED ROAD CROSS SECTIONS B. I. FEB 2022 A PRELIMINARY ISSUE B. I. JUL 2021 Approved Date Rev Amendments

В



	ö	<u> </u>
KINGLSEY PROMENADE		CH 63.91
cniro		OVENANCE EST AGE 5
	BOA	

ABN 55 050 029 635

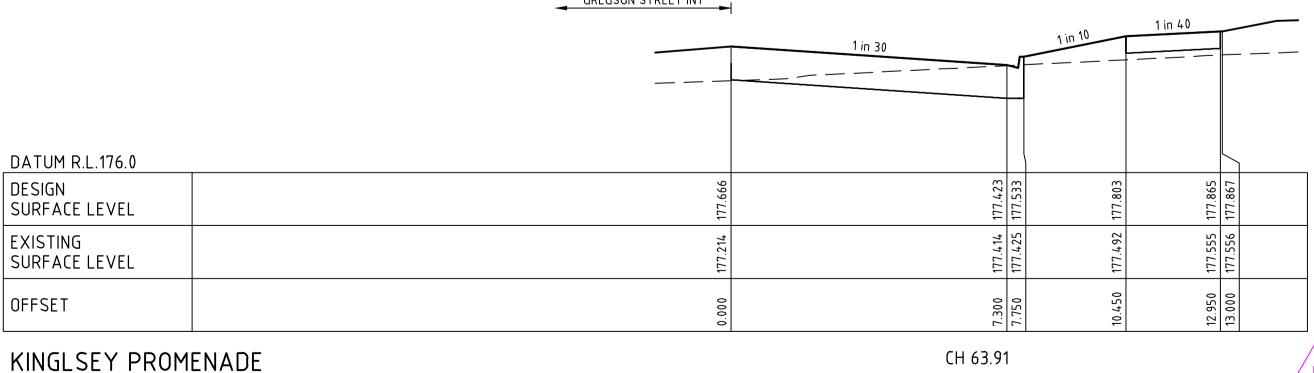


16 BRIDGE STREET BENDIGO

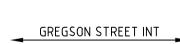
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spiire.com.au

KINGLSEY PROMENADE		CH 11.51			KIN
OFFSET	0.000	7.750	10.450	12.950 13.000	OFF
EXISTING SURFACE LEVEL	177.232	<u>177.433</u> 177.442	177.499	177.512 177.512	EXI SUF
DESIGN SURFACE LEVEL	177.555	<u>117.312</u> 117.422	177.512	177.575	DES

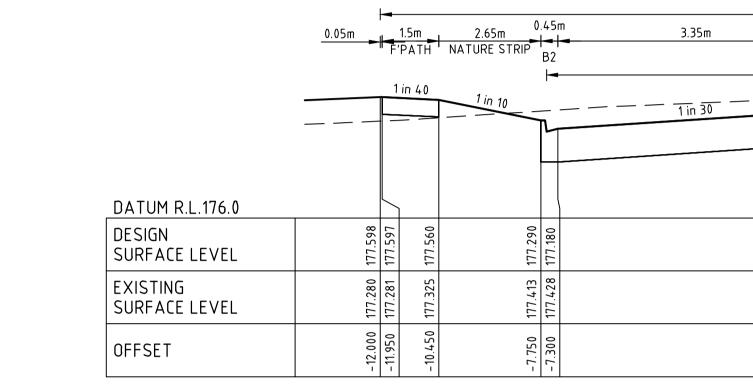






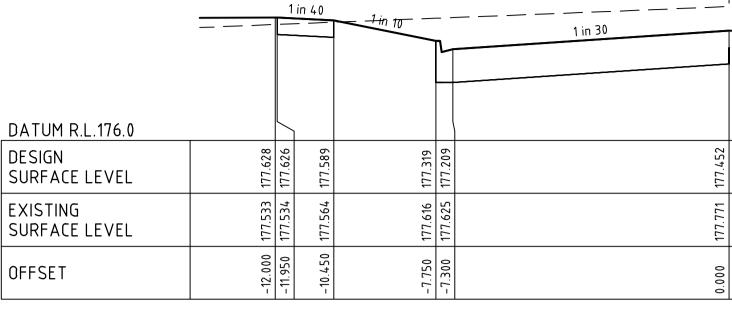
		1	in 40	1 in 10		1 in 30
DATUM R.L.176.0		\leq	1			
DESIGN SURFACE LEVEL	177.699	177.698	177.660	177.390	177.280	
EXISTING SURFACE LEVEL	177.030	177.030	177.043	177.151	177.170	
OFFSET	-12.000	-11.950	-10.450	-7.750	-7.300	

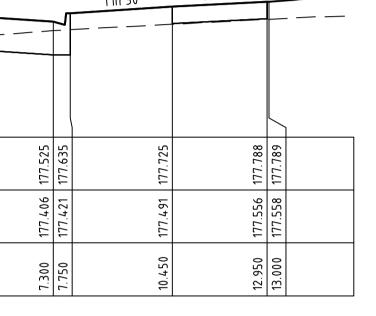
KINGLSEY PROMENADE











1 in 30 1 in 40

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

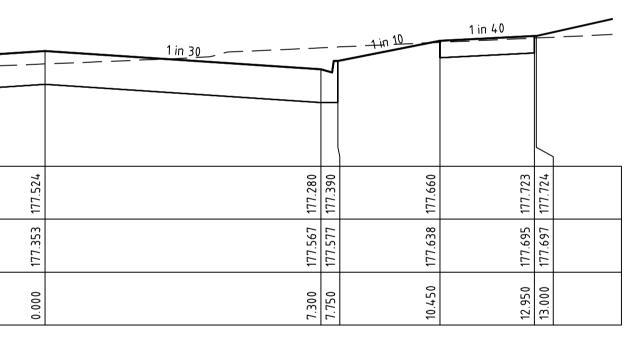
responsibility or liability whatsoever to any third party arising out of

any use or reliance by third party on the content of this document.

GREATER BENDIGO CITY COUNCIL ENGINEERING PLANS **APPROVED BY: Peter Brasier** DATE: 09 March 2022

25m ROAD RESERVE					-	Ч	
	3.35m		.45m - -	2.65m NATURE STRIP	2.5m F'PATH	┐ ╢╼╴	0.05m
15.20m CARRIAGEWAY			B2 ━┤	NATORE STRIP			
	1 in 30			1 in 10	1 in 40		
177.423		177.180	177.290	177.560	177.622	177.623	
177.593		177.749	177.760	177.823	177.881	177.882	
0000		7.300	7.750	10.450	12.950	13.000	

CH 112.60





PROVENANCE ESTATE STAGE 5 ROAD AND DRAINAGE **ROAD CROSS SECTIONS - SHEET 2** CITY OF GREATER BENDIGO HUNTLY PROPERTY HOLDINGS PTY LTD

PRELIMINARY 308327CR401

	KINGLSEY PROMENADE									
				Scale H 1:100 SCALE @ A1	0	1	2	3	4	5
BA				V 1:50	0	0.5	1	1.5	2	2.5
В	AMENDED ROAD CROSS SECTIONS	B. I.	FEB 2022							
A	PRELIMINARY ISSUE	B. I.	JUL 2021							
Rev	Amendments	Approved	Date							

DATUM R.L.176.0		
DESIGN SURFACE LEVEL	177.486	
EXISTING SURFACE LEVEL	177.799	
OFFSET	0.000	

HESTER STREET INT 1 in 30

KINGLSEY PROMENADE

KINGLSEY PROMENADE

kley-W Sheet

БМ

plotted by Harry 08/02/2022 2:07

		1 in 40	1 in 15 -		n 30	1 in 30		1 in 20	1 in 40	
								_		
DATUM R.L.176.0										٦
DESIGN SURFACE LEVEL	177.650	177.64.8	177.431	177.321	177.564		177.321 152.177	177.566	177.628 177.630	
EXISTING SURFACE LEVEL	177.592			177.699	177.853		178.005 170.011	178.070	178.121 178.122	
OFFSET	-12.000		_	-7.300	0.000		7.300		12.950 13.000	
KINGLSEY PROM	IFNADF				СН	168.41				

KINGLSEY PROMENADE

CH 188.60

KINGLSEY PROME			25m ROAD RESER	VE		
	0.05m <u>1.5m</u> ►∥ F'PATH	2.65m 0.45m NATURE STRIP B2	7.30m	7.30m	0.45m 2.65m ■ ■ ■ 2.65m B2 NATURE STF 	2.5m 0.05m RIP F′PATH 0.05m
-		<u> </u>	1 in 30	1 in 30	1 in 20	1 in 40
DATUM R.L.176.0						
DESIGN SURFACE LEVEL	<u>177.549</u> <u>177.547</u> 177.510	<u>177.330</u> 177.220	177.463		177.220 177.330	177.465 177.527 177.529
EXISTING SURFACE LEVEL	177.594 177.595 177.625	177.679 177.688	177.834		177.984 177.993	178.048 178.099 178.100
OFFSET	-12.000 -11.950 -10.450	-7.750 -7.300	0.000		7.300	10.450 12.950 13.000

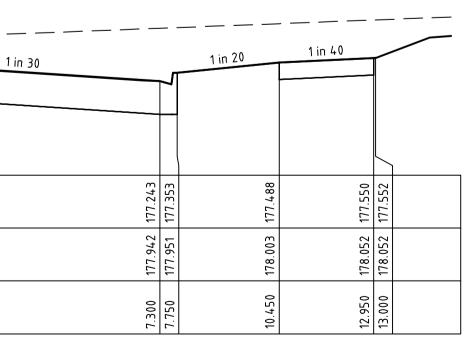
						4
		—1 in 40	1 in 15	 TI _	1 in 30	
				H		_
DATUM R.L.176.0		\subseteq				
DESIGN SURFACE LEVEL		177.425	177.207	177.097	17E LLI	
EXISTING SURFACE LEVEL	177.542	177.543 177.570	177.618	177.626		
OFFSET	-12.000	-11.950	-7.750	-7.300		
KINGI SEY PROM	FNADE				CH 213.10	

GRIMSHAW STREET INT

GREATER BENDIGO CITY COUNCIL ENGINEERING PLANS APPROVED BY: Peter Brasier DATE: 09 March 2022

		<u>1in 40</u>	1 in 30	1 in 30		1 in 30	1 in 30	1 in 40
DATUM R.L.175.0								
DESIGN SURFACE LEVEL	177.030	177.029 176.992	176.902	176.792	177.035	176.792	176.902	177.054 177.055
EXISTING SURFACE LEVEL	177.163	177.164 177.184	177.221	177.227	177.327	177.425	177.432	177.519
OFFSET	-12.000	-11.950	-7.750	-7.300	0.000	7.300	7.750	12.950 13.000

KINGLSEY PROMENADE FUTURE



CH 143.91

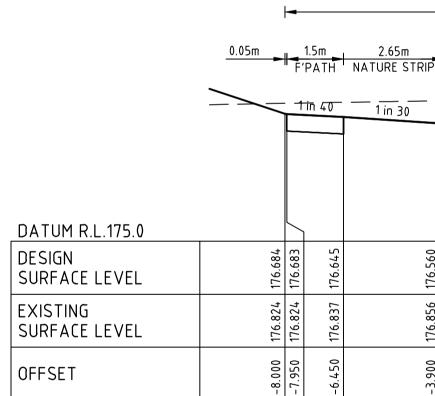




16 BRIDGE STREET BENDIGO VICTORIA 3550 AUSTRALIA T 61 3 5448 2500 ABN 55 050 029 635 spiire.com.au

	1 in /	40	1 in 30		1 in 30	1 in 30		1 in 30	1 in 40	
								_		
DATUM R.L.175.0				+						
DESIGN SURFACE LEVEL	<u>177.152</u> 177.150	177.113	177.023 176.913	CIC.0/1	177.156		176.913	177.113	177.175	771.771
EXISTING SURFACE LEVEL	177.338 177.339	177.362	<u>177.403</u> 177.410	1/1.410	177.525		177.647	+co.///1 177.699	177.741	177.742
OFFSET	-12.000 -11.950	-10.450	-7.750 -7.300	00C.1-	0.000		7.300	10.450	12.950	13.000

KINGLSEY PROMENADE FUTURE



HESTER STREET

		1 ir	1 40 	1 in 30	1 in 30	1 in 30	4	1 in 10	1 in 40		-
											Ś
DATUM R.L.176.0											_
DESIGN SURFACE LEVEL	177.837	177.835	177.798	<u>117.713</u> 177.603	177.718	177.603	177.713	177.968	178.005	178.007	5
EXISTING SURFACE LEVEL	177.514	177.514	177.524	177.530 177.528				177.550		177.549	
DFFSET	8.000	7.950	-6.450	-3.450	0.000	3.450	006	6.450	950	8.000	

Designed	Checked
H. OAKLEY-WARREN	B. IBBS
Authorised	Date
C. CLARKE	JUL 2021

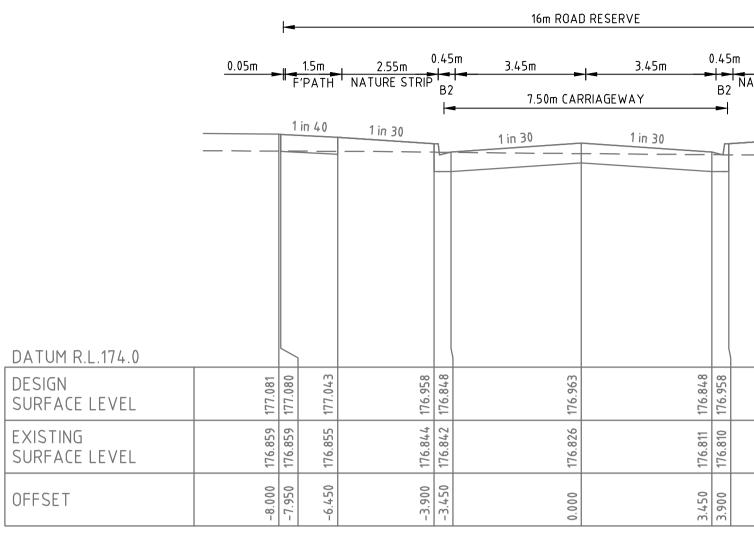
CH 274.26

CH 250.00

16m ROAD RESERVE										
(21P).45 B2		→ IIICC.C	45π ➡ - B2 ➡	NATURE STRIP	1.5m F'PATH		0.05m		
	 	1 in 30	1 in 30		1 in 10					
176.560	176.450	176.565	176.450	176.560	176.815	176.853	176.854 /			
176.856	176.858		176.896	176.897	176.912	176.923	176.923			
-3.900	-3.450	0.000	3.450	3.900	6.450	7.950	8.000			

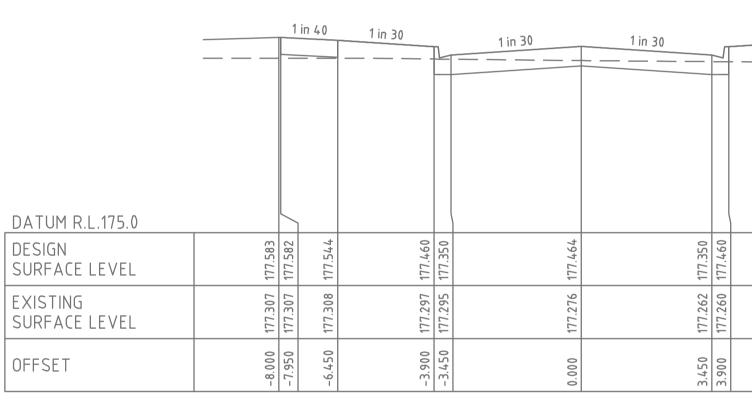
CH 46.00

PROVENANCE ESTATE		
ROAD AND DRAINAGE ROAD CROSS SECTIONS - SHEET	3	
 CITY OF GREATER BENDIGO HUNTLY PROPERTY HOLDINGS PT		
	^{rg №} 308327CR402	Rev



JARVIS STREET (FUTURE STAGE 6)

CH 46.00



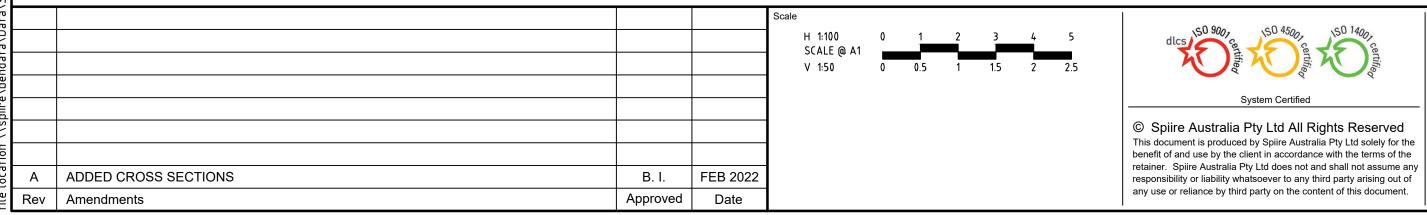
JARVIS STREET (FUTURE STAGE 6)

CH 23.39

DATUM R.L.175.0		<u>1 in 40</u>	1 <u>in 30</u>		<u> </u>	<u> </u>		1 in 30	1 in 40		
DESIGN SURFACE LEVEL	177.508	177.507 177.469	177.384	177.274	177.389	177.274	177.384	177.469	177.507	177.508	
EXISTING SURFACE LEVEL	177.459	177.458 177.457	177.447	177.446	177.432	177.418	177.416	177.406	177.400	177.400	
OFFSET	-8.000	-7.950 -6.450	-3.900	-3.450	0.000	3.450	3.900	6.450	7.950	8.000	

JARVIS STREET (FUTURE STAGE 6)

CH 15.00



1 in 30		1 in 40			
			┢		
			\vdash		
	E40.	177.080	.081		
	177	177	177		
	176.799 177.043	792	176.792 177.081		
	176.	176.792	176.		
			<u> </u>		
	6.450	7.950	8.000		

1 in 30	1 in 40		
177.250 1177.544	177.244 177.582	177.244 177.583	
0.0	7:	7	
177.25	177.24	177.24	
6.450	7.950	8.000	
.9	7.	œ	

responsibility or liability whatsoever to any third party arising out of



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

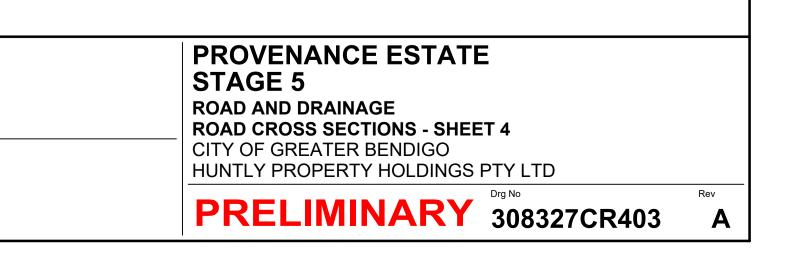
Designed H. OAKLEY-WARREN Authorised C. CLARKE

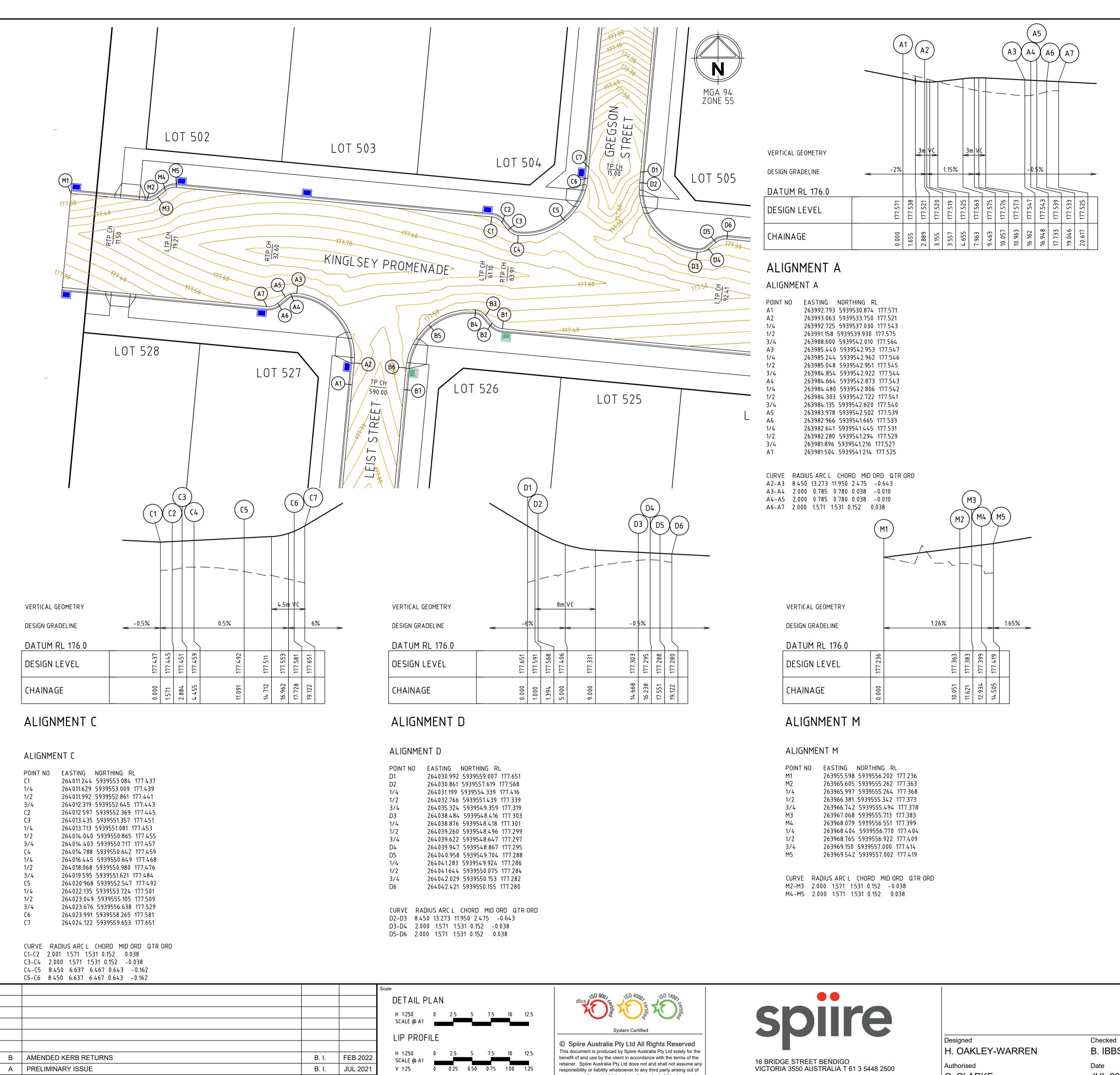
Checked B. IBBS Date FEB 2022

GREATER BENDIGO CITY COUNCIL ENGINEERING PLANS

APPROVED BY: Peter Brasier

DATE: 09 March 2022





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Rev Amendments

Approved

Date

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POINT NO M1	EASTING NORTHING RL 263955.598 5939556.202 177.236
M2	263965.605 5939555.262 177.363
1/4	263965.997 5939555.264 177.368
1/2	263966.381 5939555.342 177.373
3/4	263966.742 5939555.494 177.378
M3	263967.068 5939555.713 177.383
M4	263968.079 5939556.551 177.399
1/4	263968.404 5939556.770 177.404
1/2	263968.765 5939556.922 177.409
3/4	263969.150 5939557.000 177.414
M5	263969.542 5939557.002 177.419

ABN 55 050 029 635

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Designed	Checked
H. OAKLEY-WARREN	B. IBBS
Authorised	Date
C. CLARKE	JUL 2021

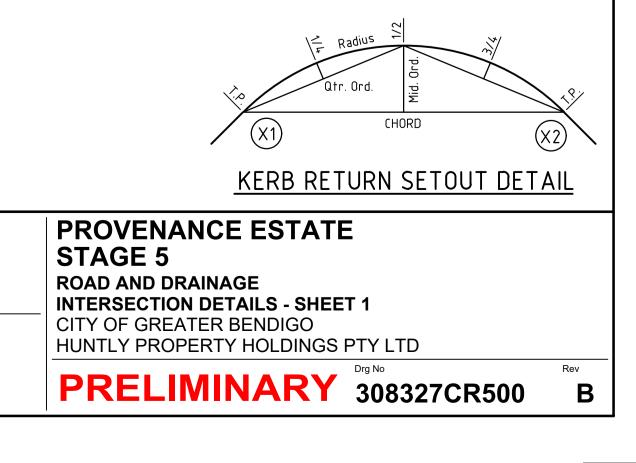
	B1	((B:	B3 2)() B4)		B	5)		В	6)		
GREATER BENDIGO CITY COUNCIL ENGINEERING PLANS													
APPROVED BY: Peter Brasier													
DATE: 09 March 2022 VERTICAL GEOMETRY							5m	n VC					
DESIGN GRADELINE	-0.5%	<		c	.5%	-	<	~	>	1%	>	< 2%	->
DATUM RL 176.0								\leq					
DESIGN LEVEL	177.423	177.431	177.437	177.445		1//.468	177.480	177.484	177.506	177.542	177.571		
CHAINAGE	0.000	1.571	2.884	4.455		9.112	11.091	11.612	14.112	17.728	20.616		

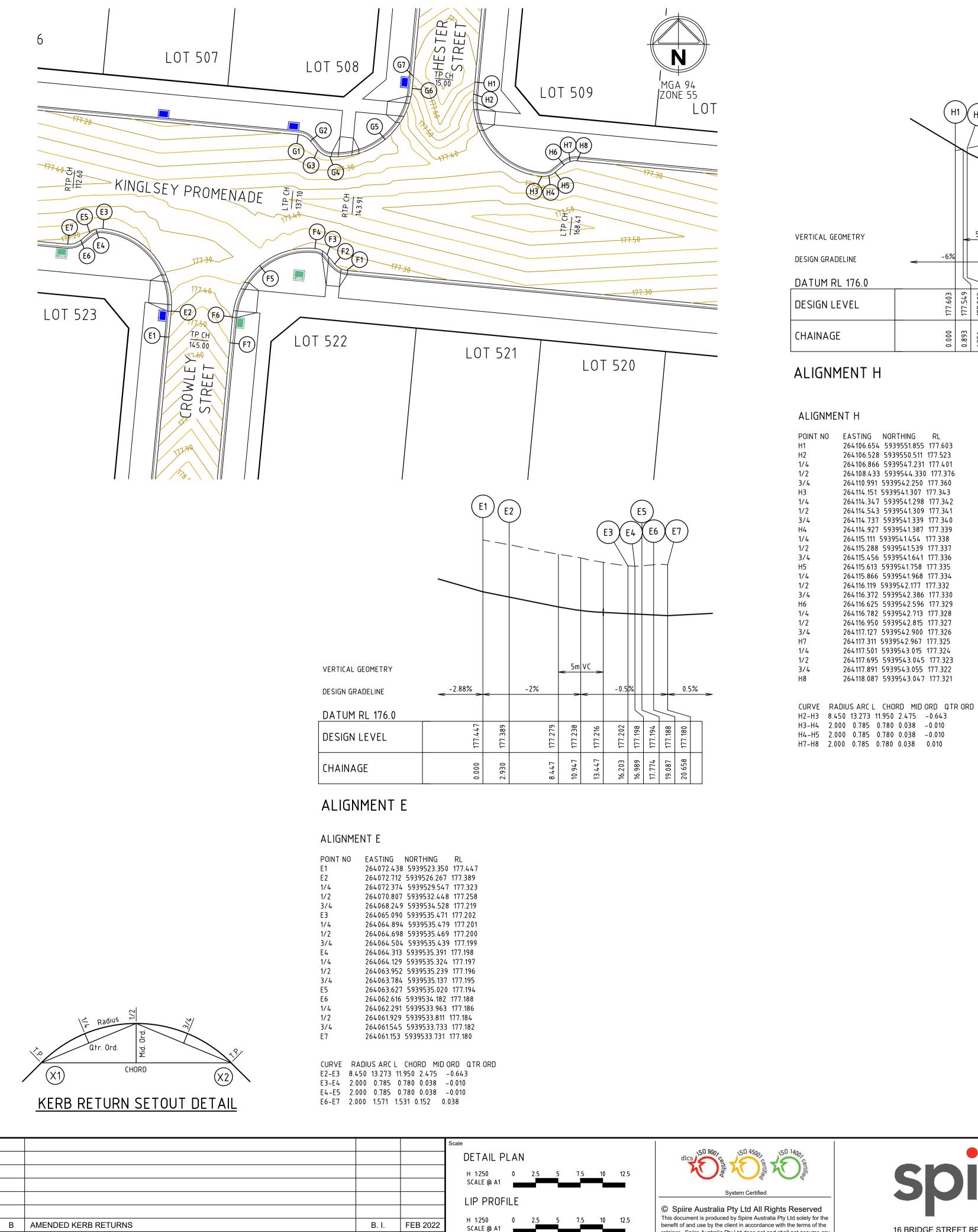
ALIGNMENT B

ALIGNMENT B

POINT NO	EASTING NORTHING RL
B1	
-	
1/4	264012.295 5939538.360 177.425
1/2	264011.932 5939538.508 177.427
3/4	264011.605 5939538.724 177.429
B2	264011.327 5939539.000 177.431
В3	264010.489 5939540.012 177.437
1/4	264010.211 5939540.288 177.439
1/2	264009.884 5939540.504 177.441
3/4	264009.521 5939540.652 177.443
B4	264009.136 5939540.727 177.445
1/4	264007.480 5939540.720 177.453
1/2	264005.856 5939540.389 177.462
3/4	264004.329 5939539.748 177.470
B5	264002.956 5939538.822 177.480
1/4	264001.790 5939537.645 177.493
1/2	264000.876 5939536.264 177.509
3/4	264000.249 5939534.731 177.526
B6	263999.933 5939533.105 177.542
B7	263999.662 5939530.228 177.571

CURVE	RADIU	S ARC I	L CHOI	rd Mi	D ORD	QTR ORD
B1-B2	2.000	1.571	1.531 0	.152	0.038	
B3-B4	2.000	1.571	1.531 0	.152	-0.038	
B4-B5	8.450	6.637	6.467	0.643	-0.16	2
B5-B6	8.450	6.637	6.467	0.643	-0.16	2





B. I.

Approved

JUL 2021

Date

V 1:25

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Designed Checked B. IBBS H. OAKLEY-WARREN Authorised Date C. CLARKE JUL 2021



	F1	((F2	F3) (F4)) (F	5		6	F		
VERTICAL GEOMETRY							< 5m	VC =	>		
DESIGN GRADELINE	~ 0.5% ~	~			0.8%			2%	<u>،</u>	2.88%	~ ~
DATUM RL 176.0					1						
DESIGN LEVEL	177.243	177.255	177.266	177.278	177.332	177.362	177.389	177.394	177.432	177.447	
CHAINAGE	0.000	1.571	2.884	4.455	11.091	14.872	17.372	17.728	19.872	20.658	

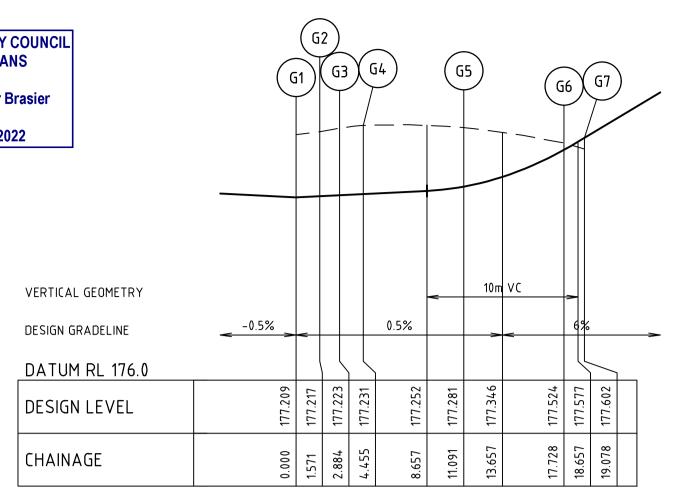
1/4	264106.866 5939547.231 177.401
1/2	264108.433 5939544.330 177.376
3/4	264110.991 5939542.250 177.360
H3	264114.151 5939541.307 177.343
1/4	264114.347 5939541.298 177.342
1/2	264114.543 5939541.309 177.341
3/4	264114.737 5939541.339 177.340
H4	264114.927 5939541.387 177.339
1/4	264115.111 5939541.454 177.338
1/2	264115.288 5939541.539 177.337
3/4	264115.456 5939541.641 177.336
H5	264115.613 5939541.758 177.335
1/4	264115.866 5939541.968 177.334
1/2	264116.119 5939542.177 177.332
3/4	264116.372 5939542.386 177.330
H6	264116.625 5939542.596 177.329
1/4	264116.782 5939542.713 177.328
1/2	264116.950 5939542.815 177.327
3/4	264117.127 5939542.900 177.326
H7	264117.311 5939542.967 177.325
1/4	264117.501 5939543.015 177.324
1/2	264117.695 5939543.045 177.323
3/4	264117.891 5939543.055 177.322
H8	264118.087 5939543.047 177.321

ALIGNMENT H

		(+		(H2)////				H3	H4)	H6) H7	Н8)	_
VERTICAL GEOMETRY			-	5m	VC	>								
DESIGN GRADELINE	<	-6%		>	<			-0.5%	\$					-
DATUM RL 176.0			l				١							
DESIGN LEVEL		177.603	177.549	177.523	177.434	177.387		177.343	177.339	177.335	177.329	177.325	177.321	
CHAINAGE		0.000	0.893	1.350	3.393	5.893		14.623	15.409	16.194	17.507	18.292	19.078	

ENGINEERING PLANS **APPROVED BY: Peter Brasier** DATE: 09 March 2022

GREATER BENDIGO CITY COUNCIL



ALIGNMENT G

ALIGNMENT G

POINT NO	EASTING	NORTHING RL
G1	264086.911	5939545.976 177.209
1/4	264087.296	5939545.901 177.211
1/2	264087.659	5939545.752 177.213
3/4	264087.986	5939545.536 177.215
G2	264088.264	5939545.260 177.217
G3	264089.102	5939544.249 177.223
1/4	264089.380	5939543.973 177.225
1/2	264089.707	5939543.757 177.227
3/4	264090.070	5939543.608 177.229
G4	264090.455	5939543.533 177.231
1/4	264092.111	5939543.541 177.239
1/2	264093.735	5939543.871 177.248
3/4	264095.262	5939544.512 177.258
G5	264096.635	5939545.439 177.281
1/4	264097.801	5939546.615 177.319
1/2	264098.715	5939547.997 177.372
3/4	264099.342	5939549.530 177.440
G6	264099.658	5939551.156 177.524
G7	264099.785	5939552.500 177.602

CURVE	RADIU	S ARC	L CHO	ORD	MID ORD	QTR	ORD
G1-G2	2.000	1.571	1.531	0.152	0.038		
G3-G4	2.000	1.571	1.531	0.152	-0.038		
G4-G5	8.450	6.637	6.46	7 0.6	43 –0.16	52	
65-66	8.450	6.637	6.46	7 0.6	43 –0.16	52	

ALIGNMENT F

POINT NO	EASTING NORTHING RL
F1	264092.329 5939530.802 177.243
1/4	264091.944 5939530.877 177.246
1/2	264091.582 5939531.025 177.249
3/4	264091.255 5939531.242 177.252
F2	264090.976 5939531.518 177.255
F3	264090.139 5939532.529 177.266
1/4	264089.860 5939532.805 177.269
1/2	264089.533 5939533.021 177.272
3/4	264089.170 5939533.170 177.275
F4	264088.785 5939533.244 177.278
1/4	264087.129 5939533.237 177.292
1/2	264085.506 5939532.906 177.305
3/4	264083.978 5939532.266 177.318
F5	264082.605 5939531.339 177.332
1/4	264081.439 5939530.163 177.345
1/2	264080.525 5939528.781 177.358
3/4	264079.898 5939527.248 177.373
F6	264079.582 5939525.622 177.394
F7	264079.308 5939522.705 177.447

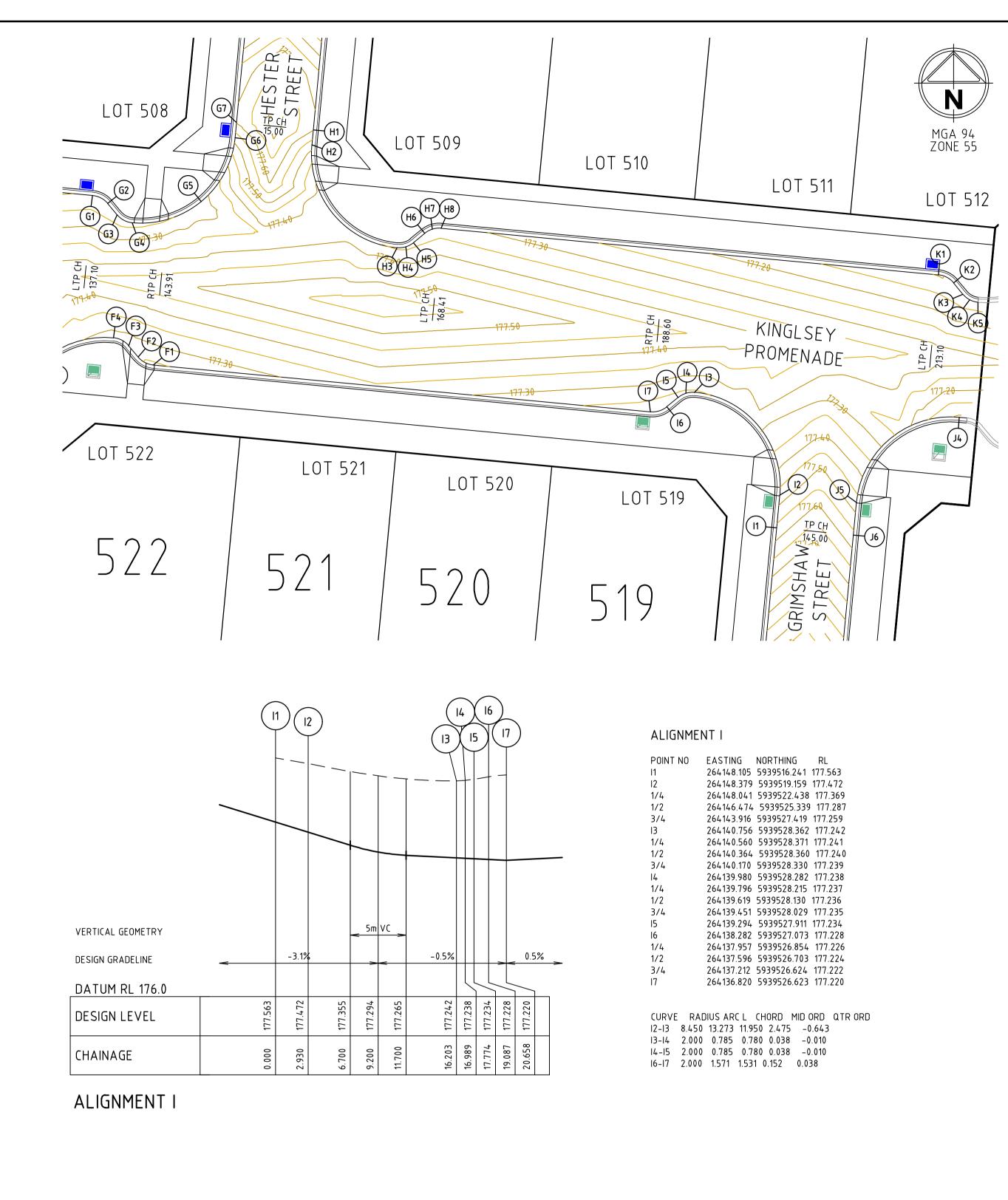
CURVE RADIUS ARCL CHORD MID ORD QTR ORD F1-F2 2.000 1.571 1.531 0.152 0.038 F3-F4 2.000 1.571 1.531 0.152 -0.038
 F4-F5
 8.450
 6.637
 6.467
 0.643
 -0.162

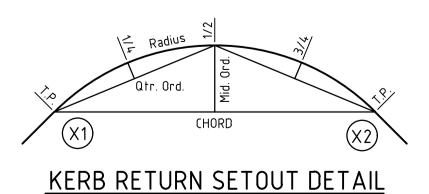
 F5-F6
 8.450
 6.637
 6.467
 0.643
 -0.162



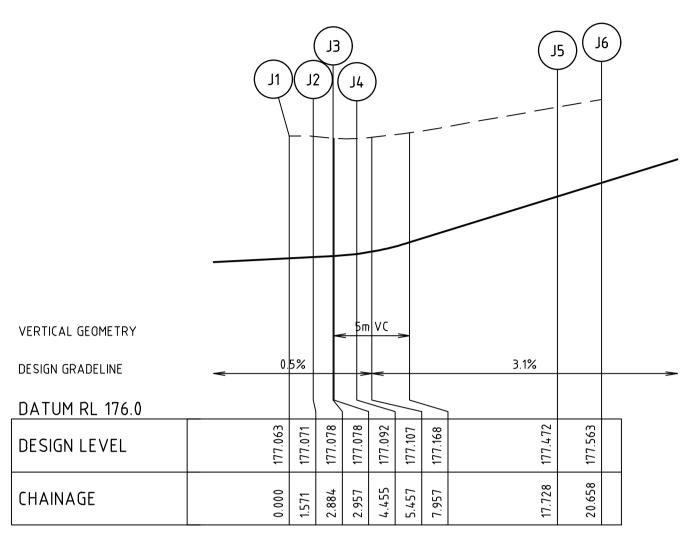
PRELIMINARY 308327CR501 Β

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DETAIL PLAN H 1:250 SCALE @ A1 LIP PROFILE 0 2.5 5 7.5 10 12.5 H 1:250 AMENDED KERB RETURNS B. I. FEB 2022 В SCALE @ A1 PRELIMINARY ISSUE B. I. JUL 2021 0 0.25 0.50 0.75 1.00 Α V 1:25 Approved Date Rev Amendments



ALIGNMENT J

ALIGNMENT J

POINT NO J1 1/4 1/2 3/4 J2 J3 1/4 1/2 3/4 J4 1/4 1/2 3/4 J5	EASTINGNORTHINGRL264167.9965939523.694177.063264167.6115939523.768177.065264167.2485939523.917177.067264166.9215939524.133177.069264166.6435939524.409177.071264165.8055939525.420177.080264165.2005939525.913177.083264164.8375939526.061177.087264164.4525939526.136177.092264161.1725939525.798177.163264158.2725939524.231177.266264156.1925939521.673177.369264155.2495939518.513177.472
JS	264155.249 5939518.513 177.472
J6	264154.975 5939515.596 177.563

CURVE RADIUS ARC L CHORD MID ORD QTR ORD J1-J2 2.000 1.571 1.531 0.152 0.038 J3-J4 2.000 1.571 1.531 0.152 -0.038 J4-J5 8.450 13.273 11.950 2.475 -0.643



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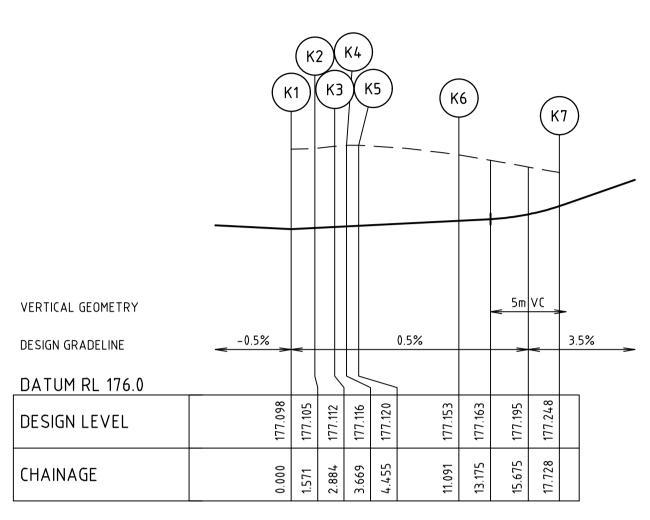
16 BRIDGE STREET BENDIGO VICTORIA 3550 AUSTRALIA T 61 3 5448 2500 spiire.com.au ABN 55 050 029 635

Designed Checked B. IBBS H. OAKLEY-WARREN Authorised Date JUL 2021 C. CLARKE

GREATER BENDIGO CITY COUNCIL ENGINEERING PLANS

APPROVED BY: Peter Brasier

DATE: 09 March 2022

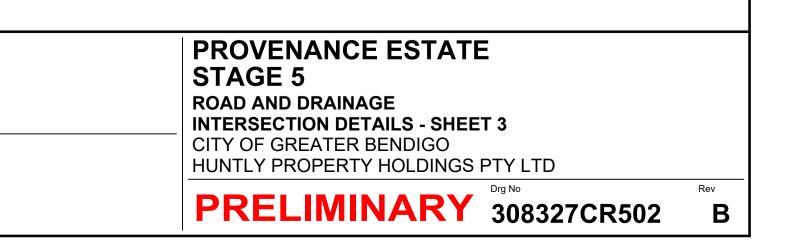


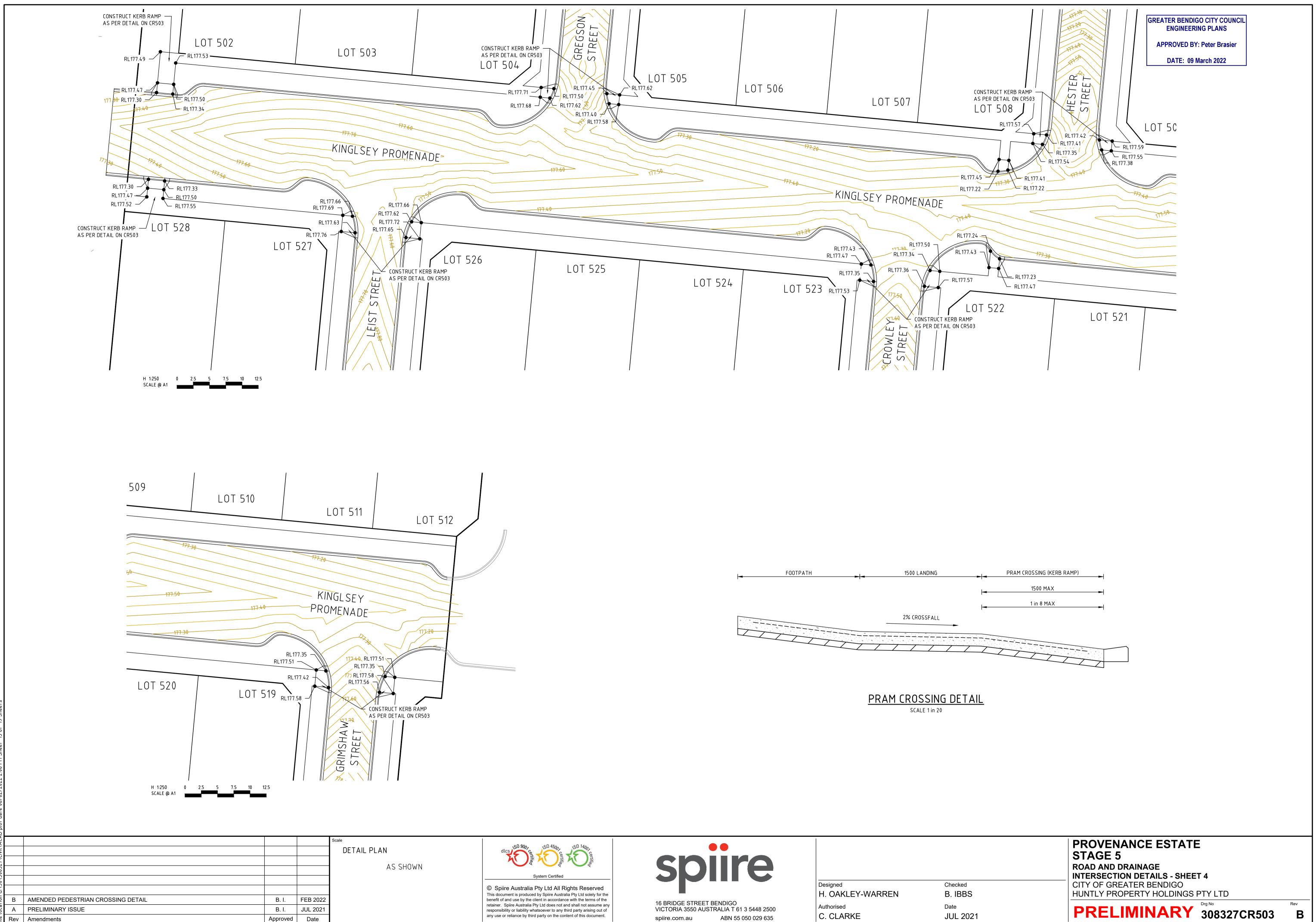
ALIGNMENT K

ALIGNMENT K

POINT N	O EASTING	NORTHING	RL
K1	264162.578	5939538.867	177.098
1/4	264162.963	5939538.792	177.100
1/2	264163.326	5939538.644	177.101
3/4	264163.653	5939538.428	177.103
K2	264163.931	5939538.152	177.105
К3	264164.769	5939537.140	177.112
1/4	264164.901	5939536.996	177.113
1/2	264165.047	5939536.864	177.114
3/4	264165.205	5939536.748	177.115
K4	264165.374	5939536.648	177.116
1/4	264165.552	5939536.565	177.117
1/2	264165.737	5939536.500	177.118
3/4	264165.928	5939536.453	177.119
K5	264166.122	5939536.425	177.120
1/4	264167.778	5939536.432	177.128
1/2	264169.401	5939536.763	177.136
3/4	264170.929	5939537.404	177.145
K6	264172.302	5939538.330	177.153
1/4	264173.468	5939539.507	177.161
1/2	264174.382	5939540.888	177.174
3/4	264175.009	5939542.421	177.203
K7	264175.325	5939544.047	177.248
CHRVE	RADIUS ARCI		

CURVE	RADIL	IS ARC I	L CHO	RD MII	D ORD	QTR ORD
K1-K2	2.000	1.571	1.531 0	.152	0.038	
K3-K4	2.000	0.785	0.780	0.038	-0.010	
K4-K5	2.000	0.785	0.780	0.038	-0.010	
K5-K6	8.450	6.637	6.467	0.643	-0.162)
K6-K7	8.450	6.637	6.467	0.643	-0.162)





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Designed	Checked
H. OAKLEY-WARREN	B. IBBS
Authorised	Date
C. CLARKE	JUL 2021

CRUSHED ROCK BACKFILL

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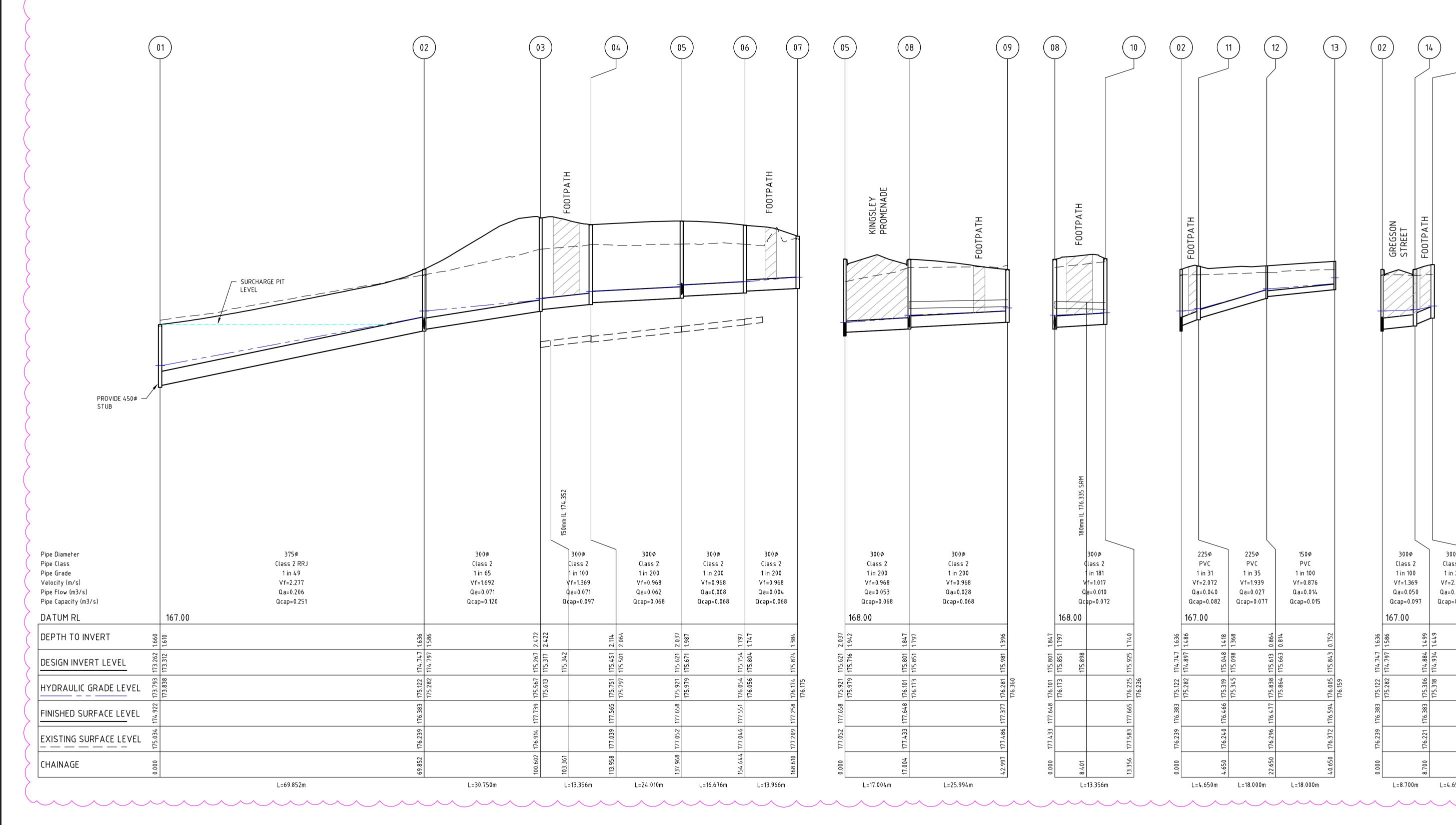
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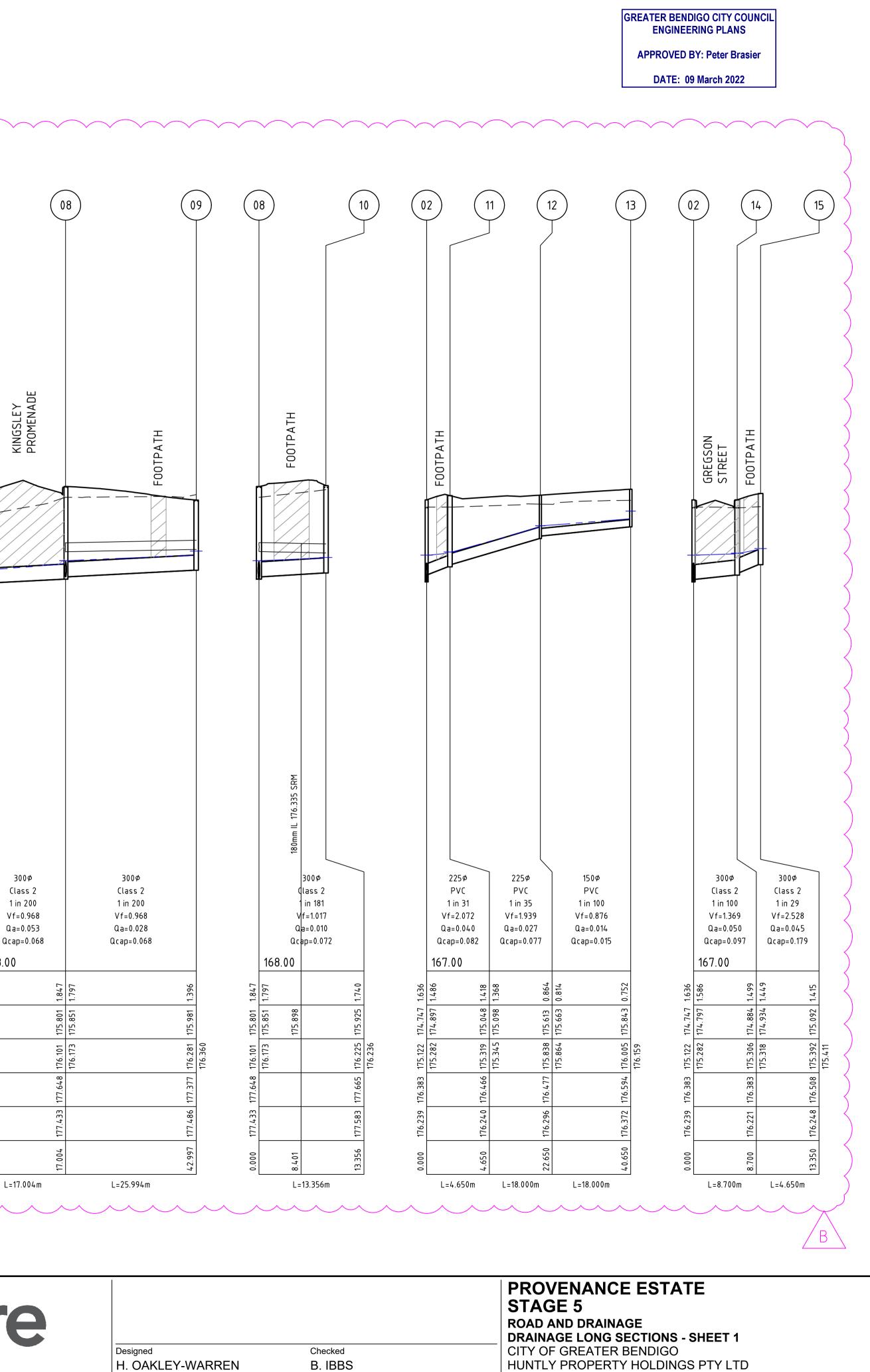
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				H 1:500 0 5 10 15 20 25 SCALE @ A1	
				V 1:50 0 0.5 1 1.5 2 2.5	
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					© Spiire Australia Pty Ltd All Rights Reserved This document is produced by Spiire Australia Pty Ltd solely for the
В	AMENDED DRAINAGE LEVELS	B. I.	FEB 2022		benefit of and use by the client in accordance with the terms of the
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Rev	Amendments	Approved	Date		any use or reliance by third party on the content of this document.



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Designed	Checked
H. OAKLEY-WARREN	B. IBBS
Authorised C. CLARKE	^{Date} JUL 2021

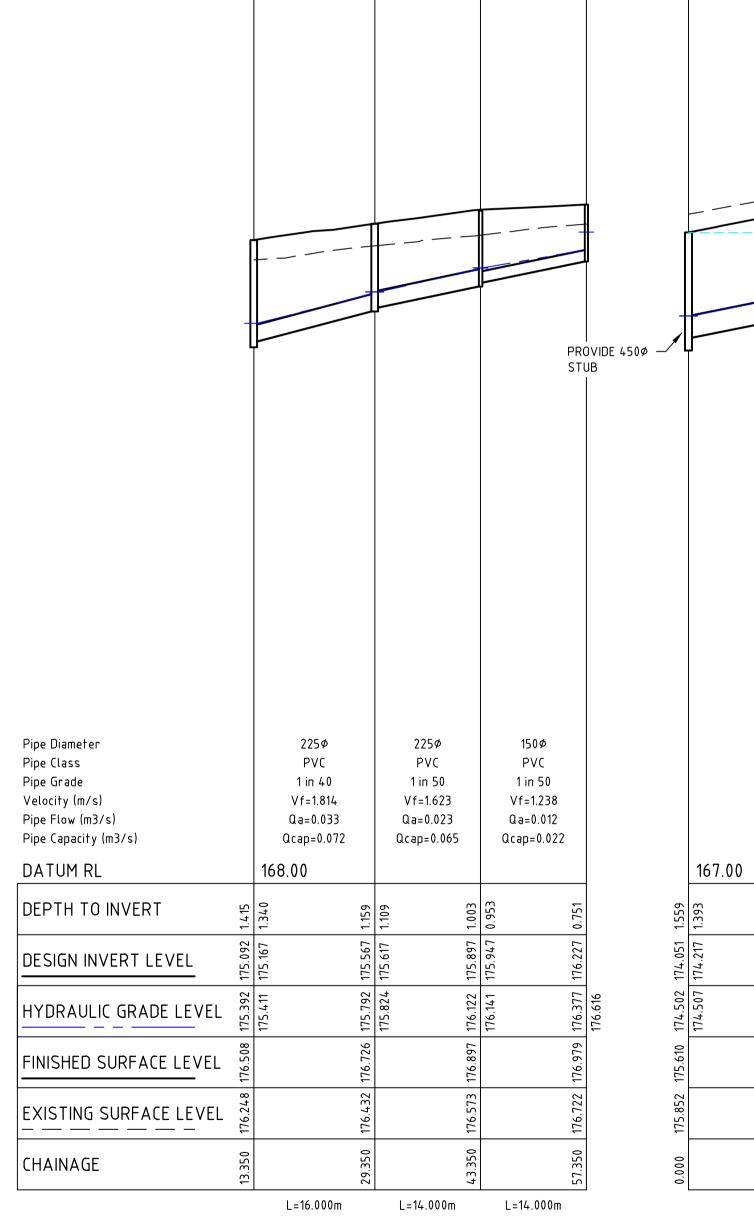


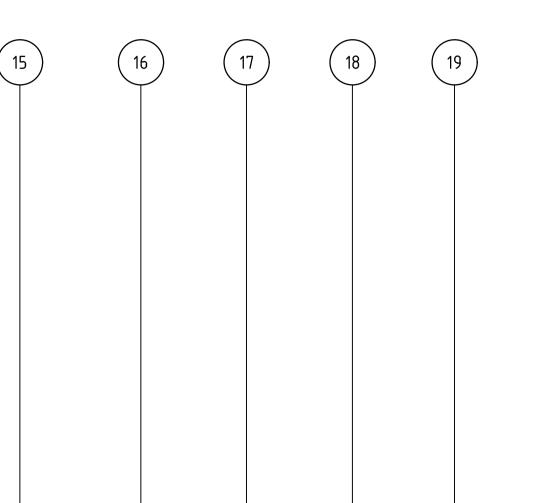
PRELIMINARY 308327CR600

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							Scale H 1:500	0	5	10	15	20	25
							SCALE @ A1 V 1:50	0	0.5	1	1.5	2	2.
В	AMENDED DRAINAGE LEVELS	3			B. I.	FEB 2022							
A	PRELIMINARY ISSUE	, 			B. I.	JUL 2021							
Rev	Amendments				Approved	Date							





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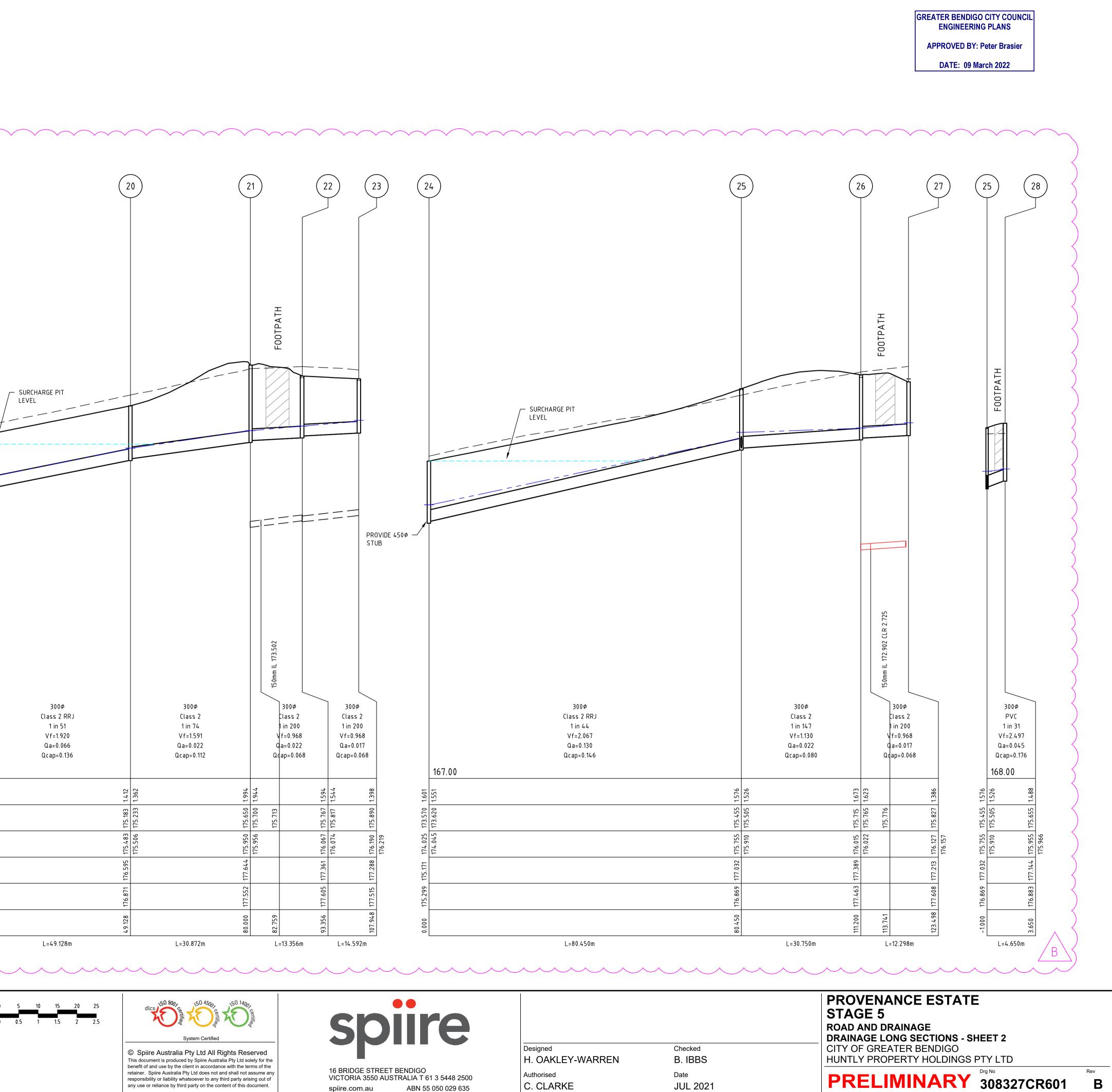
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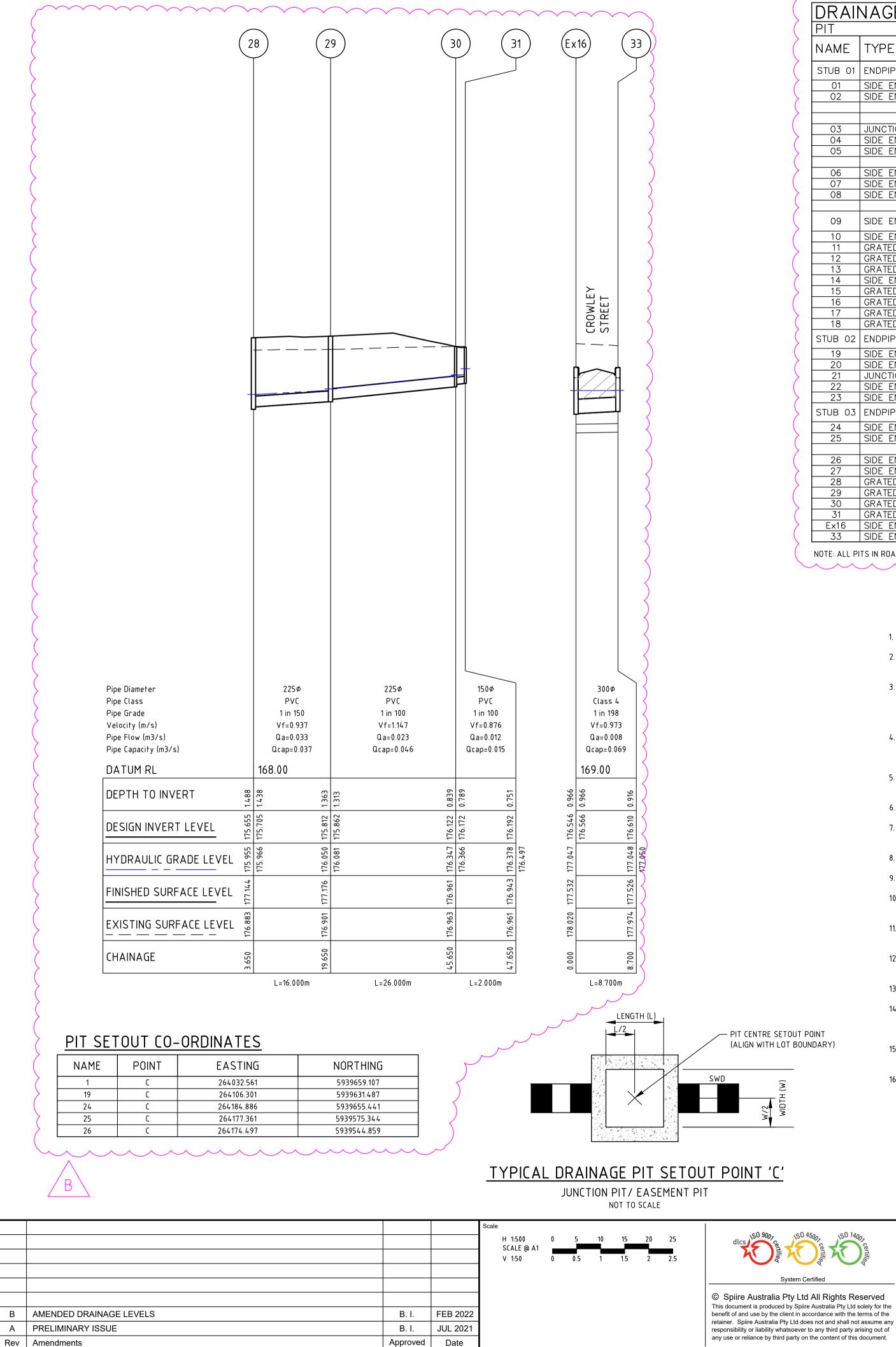


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Designed	Checked
H. OAKLEY-WARREN	B. IBBS
Authorised	Date
C. CLARKE	JUL 2021



PIT	NAGE PIT SCI	1	RNAL	11	NLET	Ol	JTLET	PI	Т	
NAME	TYPE	WIDTH	LENGTH	DIA		DIA		FS LEVEL	DEPTH	REMARKS
STUB 01	ENDPIPE	0	0	450	173.252			174.910	1.659	PROVIDE STUB. B
01	SIDE ENTRY PIT	600	900	375	173.312	450	173.262	174.922	1.660	AS PER IDM SD43
02	SIDE ENTRY PIT	600	900	300	174.797	375	174.747	176.383	1.636	AS PER IDM SD4
				225	174.897					
				300	174.797					
03	JUNCTION PIT	600	900	300	175.317	300	175.267	177.739	2.472	AS PER IDM SD4
04	SIDE ENTRY PIT	600	900	300	175.501	300	175.451	177.565	2.114	AS PER IDM SD4
05	SIDE ENTRY PIT	600	900	300	175.671	300	175.621	177.658	2.037	AS PER IDM SD4
				300	175.716					
06	SIDE ENTRY PIT	600	900	300	175.804	300	175.754	177.551	1.797	AS PER IDM SD4
07	SIDE ENTRY PIT	600	900			300	175.874	177.258	1.384	AS PER IDM SD4
08	SIDE ENTRY PIT	600	900	300	175.851	300	175.801	177.648	1.847	AS PER IDM SD4
				300	175.851					
09	SIDE ENTRY PIT	600	900			300	175.981	177.377	1.396	AS PER IDM SD4 CR602.
10	SIDE ENTRY PIT	600	900			300	175.925	177.665	1.740	AS PER IDM SD4
11	GRATED JUNCTION PIT	600	900	225	175.098	225	175.048	176.466	1.418	AS PER COGB SE
12	GRATED JUNCTION PIT	450	450	150	175.663	225	175.613	176.477	0.864	AS PER Cogb SE
13	GRATED JUNCTION PIT	450	450			150	175.843	176.594	0.752	AS PER CoGB SE
14	SIDE ENTRY PIT	600	900	300	174.934	300	174.884	176.383	1.499	AS PER IDM SD4
15	GRATED JUNCTION PIT	600	900	225	175.167	300	175.092	176.508	1.415	AS PER Cogb SE
16	GRATED JUNCTION PIT	600	900	225	175.617	225	175.567	176.726	1.159	AS PER Cogb SE
17	GRATED JUNCTION PIT	450	450	150	175.947	225	175.897	176.897	1.000	AS PER CoGB SE
18	GRATED JUNCTION PIT	450	450			150	176.227	176.979	0.751	AS PER Cogb SE
STUB 02	ENDPIPE	0	0	450	174.040			175.590	1.550	PROVIDE STUB. E
19	SIDE ENTRY PIT	600	900	300	174.217	450	174.051	175.610	1.559	AS PER IDM SD4
20	SIDE ENTRY PIT	600	900	300	175.233	300	175.183	176.595	1.412	AS PER IDM SD4
21	JUNCTION PIT	600	900	300	175.700	300	175.650	177.644	1.994	AS PER IDM SD4
22	SIDE ENTRY PIT	600	900	300	175.817	300	175.767	177.361	1.594	AS PER IDM SD4
23	SIDE ENTRY PIT	600	900			300	175.890	177.288	1.398	AS PER IDM SD4
STUB 03	ENDPIPE	0	0	450	173.565			175.151	1.586	PROVIDE STUB. E
24	SIDE ENTRY PIT	600	900	300	173.620	450	173.570	175.171	1.601	AS PER IDM SD4
25	SIDE ENTRY PIT	600	900	300	175.505	300	175.455	177.032	1.576	AS PER IDM SD4
				300	175.505					
26	SIDE ENTRY PIT	600	900	300	175.765	300	175.715	177.389	1.673	AS PER IDM SD4
27	SIDE ENTRY PIT	600	900			300	175.827	177.213	1.386	AS PER IDM SD4
28	GRATED JUNCTION PIT	600	900	225	175.705	300	175.655	177.144	1.488	AS PER CoGB SE
29	GRATED JUNCTION PIT	600	900	225	175.862	225	175.812	177.176	1.363	AS PER Cogb SE
30	GRATED JUNCTION PIT	450	450	150	176.172	225	176.122	176.961	0.839	AS PER Cogb SE
31	GRATED JUNCTION PIT	450	450	700	470 500	150	176.192	176.943	0.751	AS PER COGB SE
Ex16	SIDE ENTRY PIT	600	900	300	176.566	700	470.010	177.532	0.966	EXISTING PIT.
33	SIDE ENTRY PIT	600	900			300	176.610	177.526	0.916	AS PER IDM SD4

NOTE: ALL PITS IN RUAD RESERVE TO HAVE A CLASS B FIBREGLASS LID AS PER COGB REQUIREMENTS.

DRAINAGE NOTES

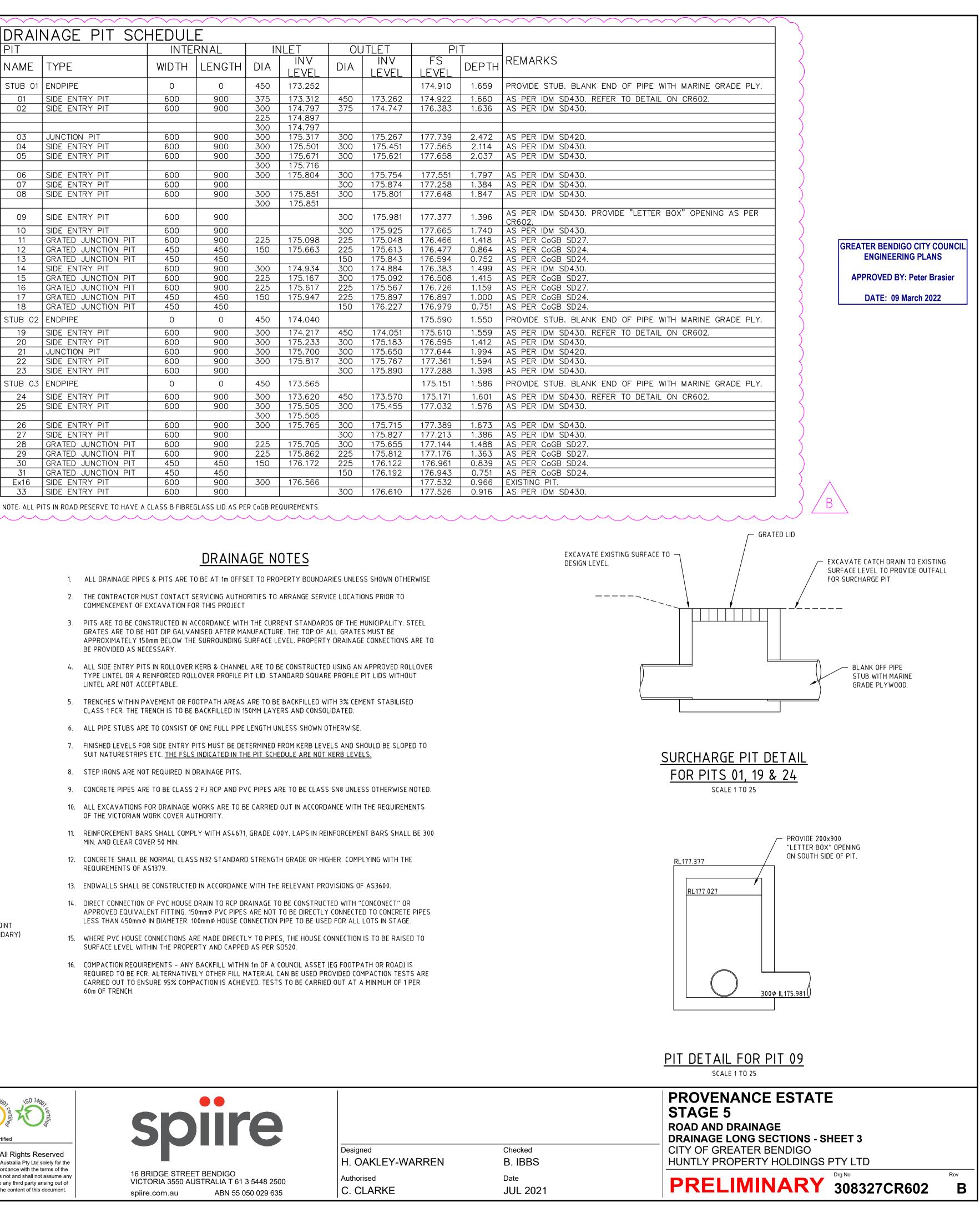
- 1. ALL DRAINAGE PIPES & PITS ARE TO BE AT 1m OFFSET TO PROPERTY BOUNDARIES UNLESS SHOWN OTHERWISE
- 2. THE CONTRACTOR MUST CONTACT SERVICING AUTHORITIES TO ARRANGE SERVICE LOCATIONS PRIOR TO COMMENCEMENT OF EXCAVATION FOR THIS PROJECT
- 3. PITS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT STANDARDS OF THE MUNICIPALITY. STEEL GRATES ARE TO BE HOT DIP GALVANISED AFTER MANUFACTURE. THE TOP OF ALL GRATES MUST BE APPROXIMATELY 150mm BELOW THE SURROUNDING SURFACE LEVEL. PROPERTY DRAINAGE CONNECTIONS ARE TO BE PROVIDED AS NECESSARY
- 4. ALL SIDE ENTRY PITS IN ROLLOVER KERB & CHANNEL ARE TO BE CONSTRUCTED USING AN APPROVED ROLLOVER TYPE LINTEL OR A REINFORCED ROLLOVER PROFILE PIT LID. STANDARD SQUARE PROFILE PIT LIDS WITHOUT LINTEL ARE NOT ACCEPTABLE.
- 5. TRENCHES WITHIN PAVEMENT OR FOOTPATH AREAS ARE TO BE BACKFILLED WITH 3% CEMENT STABILISED CLASS 1 FCR. THE TRENCH IS TO BE BACKFILLED IN 150MM LAYERS AND CONSOLIDATED.
- 6. ALL PIPE STUBS ARE TO CONSIST OF ONE FULL PIPE LENGTH UNLESS SHOWN OTHERWISE.
- 7. FINISHED LEVELS FOR SIDE ENTRY PITS MUST BE DETERMINED FROM KERB LEVELS AND SHOULD BE SLOPED TO SUIT NATURESTRIPS ETC. THE FSLS INDICATED IN THE PIT SCHEDULE ARE NOT KERB LEVELS.
- 8. STEP IRONS ARE NOT REQUIRED IN DRAINAGE PITS.
- 9. CONCRETE PIPES ARE TO BE CLASS 2 FJ RCP AND PVC PIPES ARE TO BE CLASS SN8 UNLESS OTHERWISE NOTED.
- 10. ALL EXCAVATIONS FOR DRAINAGE WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE VICTORIAN WORK COVER AUTHORITY.
- 11. REINFORCEMENT BARS SHALL COMPLY WITH AS4671, GRADE 400Y. LAPS IN REINFORCEMENT BARS SHALL BE 300 MIN. AND CLEAR COVER 50 MIN.
- 12. CONCRETE SHALL BE NORMAL CLASS N32 STANDARD STRENGTH GRADE OR HIGHER COMPLYING WITH THE REQUIREMENTS OF AS1379.
- 13. ENDWALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RELEVANT PROVISIONS OF AS3600.
- 14. DIRECT CONNECTION OF PVC HOUSE DRAIN TO RCP DRAINAGE TO BE CONSTRUCTED WITH "CONCONECT" OR APPROVED EQUIVALENT FITTING. 150mm Ø PVC PIPES ARE NOT TO BE DIRECTLY CONNECTED TO CONCRETE PIPES LESS THAN 450mmø IN DIAMETER. 100mmø HOUSE CONNECTION PIPE TO BE USED FOR ALL LOTS IN STAGE.
- 15. WHERE PVC HOUSE CONNECTIONS ARE MADE DIRECTLY TO PIPES, THE HOUSE CONNECTION IS TO BE RAISED TO SURFACE LEVEL WITHIN THE PROPERTY AND CAPPED AS PER SD520.
- 16. COMPACTION REQUIREMENTS ANY BACKFILL WITHIN 1m OF A COUNCIL ASSET (EG FOOTPATH OR ROAD) IS REQUIRED TO BE FCR. ALTERNATIVELY OTHER FILL MATERIAL CAN BE USED PROVIDED COMPACTION TESTS ARE CARRIED OUT TO ENSURE 95% COMPACTION IS ACHIEVED. TESTS TO BE CARRIED OUT AT A MINIMUM OF 1 PER 60m OF TRENCH.

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Designed Checked H. OAKLEY-WARREN B. IBBS Date Authorised JUL 2021 C. CLARKE

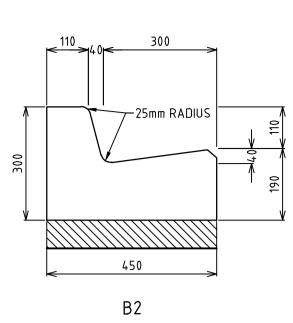


DESIGN PAVEMENT PROFILE

PAVEMENT LAYER DESCRIPTION		TYPE A*	TYPE B*
ASPHALT SEAL	SIZE 10 TYPE N WITH PRIME	30	40
BASE COURSE	20mm NOMINAL SIZE CLASS 1 OR 2 FCR, COMPACTED TO AT LEAST 98% MODIFIED MAXIMUM DRY DENSITY	110	150
	UPPER PAVEMENT TOTAL	140	190
SUBBASE	20mm OR 40mm NOMINAL SIZE CLASS 3 OR 4 FCR, MIN CBR 30 COMAPCTED TO AT LEAST 98% MODIFIED MAXIMUM DRY DENSITY	120	180
STABILISED SUBGRADE	STABILISED WITH 3% LIME AND 1% CEMENT COMPACTED TO A MINIMUM DENSITY RATIO OF 98% STANDARD	200	200
	TOTAL PAVEMENT DEPTH	460	570

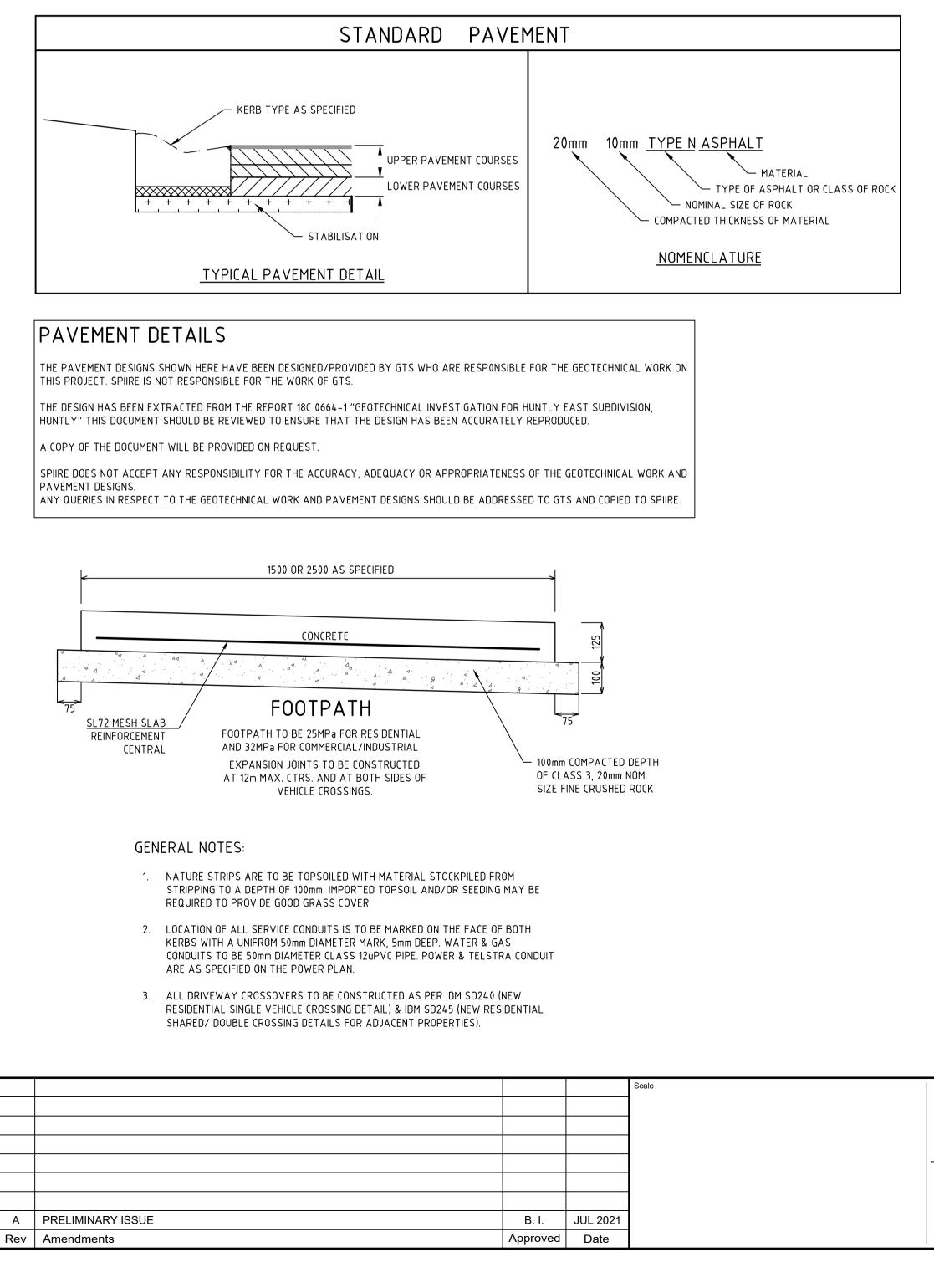
* REFER PAVEMENT PLAN FOR LOCATION OF PAVEMENT TYPES

ROAD NAME	TYPE
LEIST STREET	А
CROWLEY STREET	А
GRIMSHAW STREET	A
GREGSON STREET	А
HESTER STREET	А
KINGLSEY PROMENADE	В



STANDARD KERB PROFILES

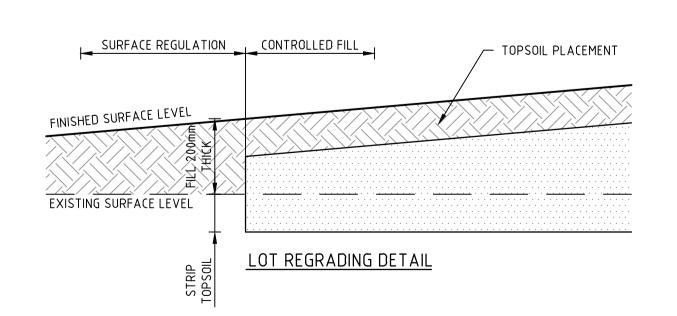
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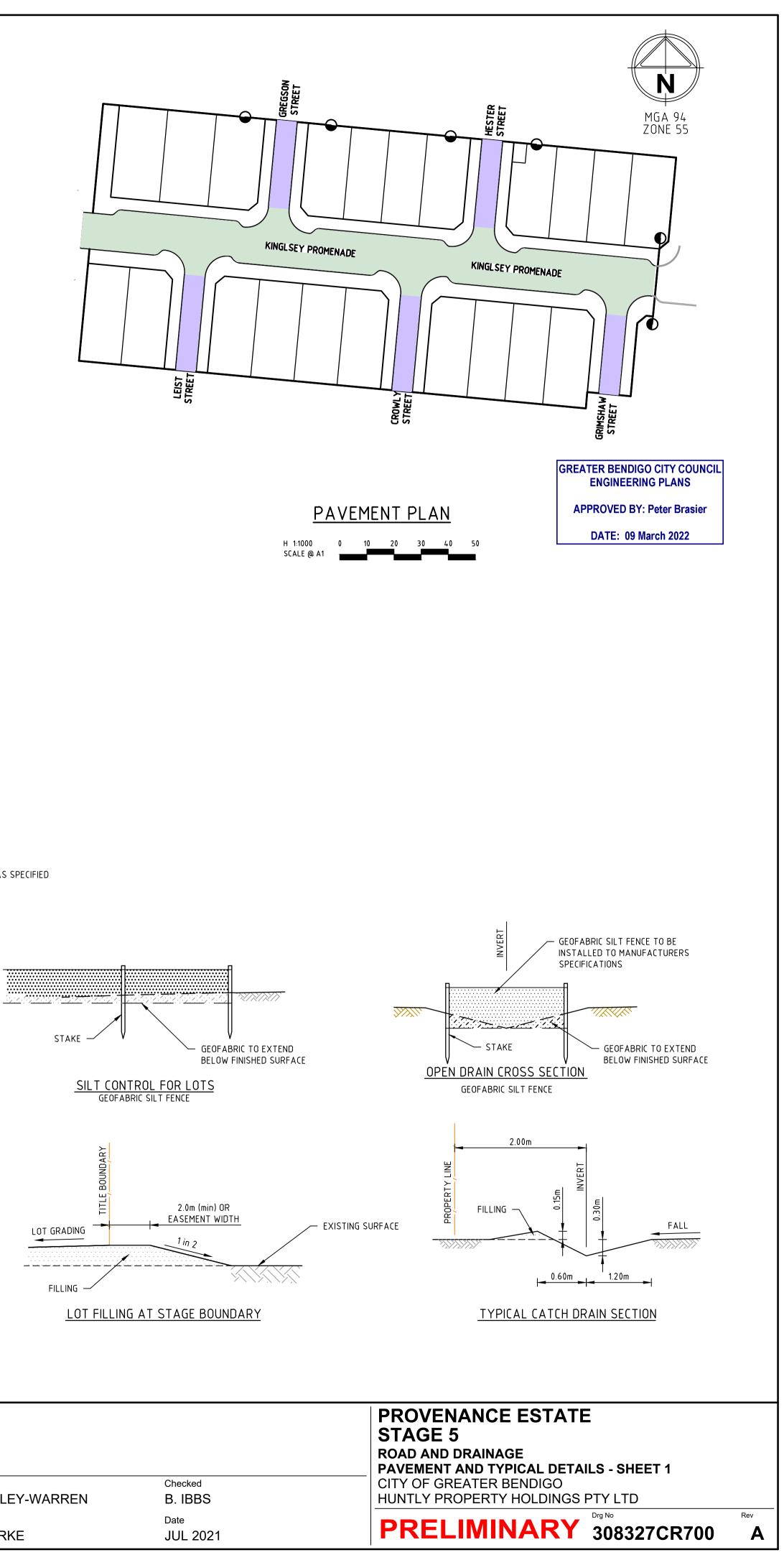


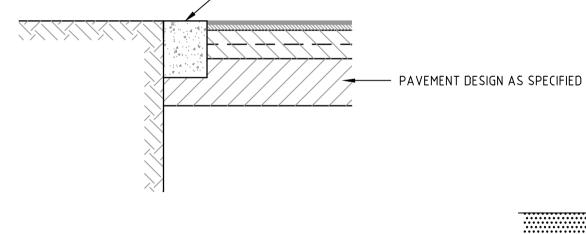
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Authorised	Date
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LIMIT OF WORKS CONCRETE EDGE STRIP &

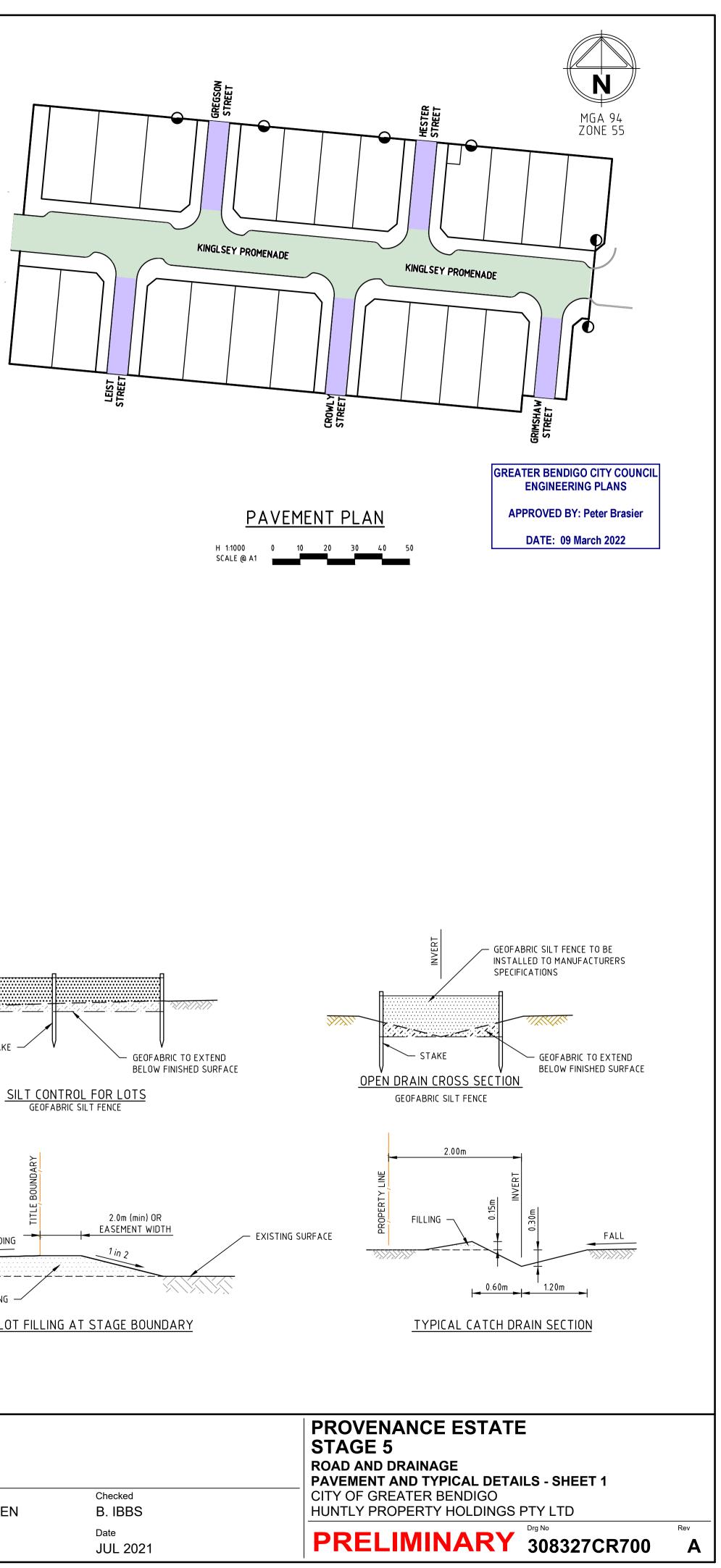
PAVEMENT INTERFACE DETAIL

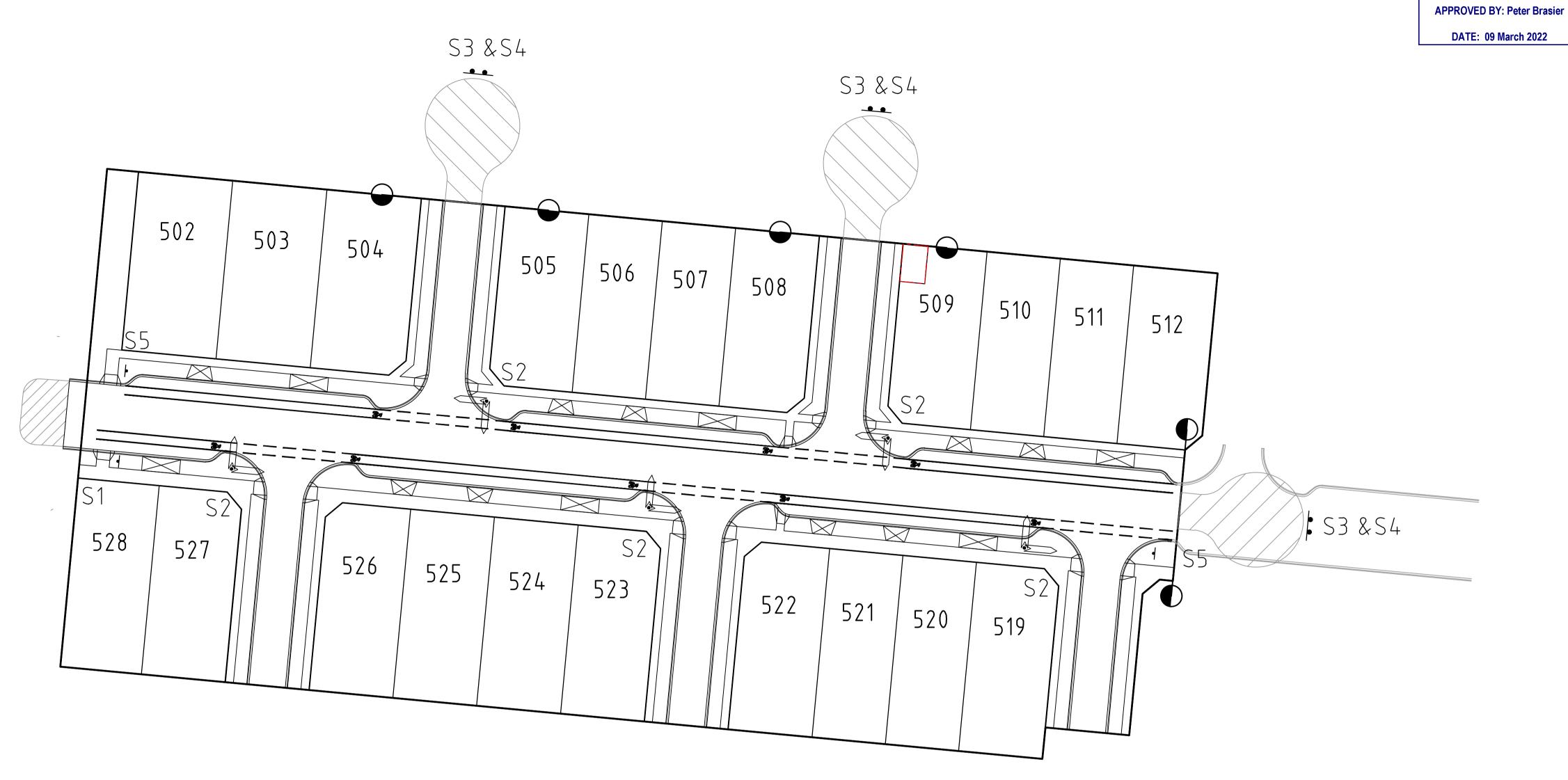




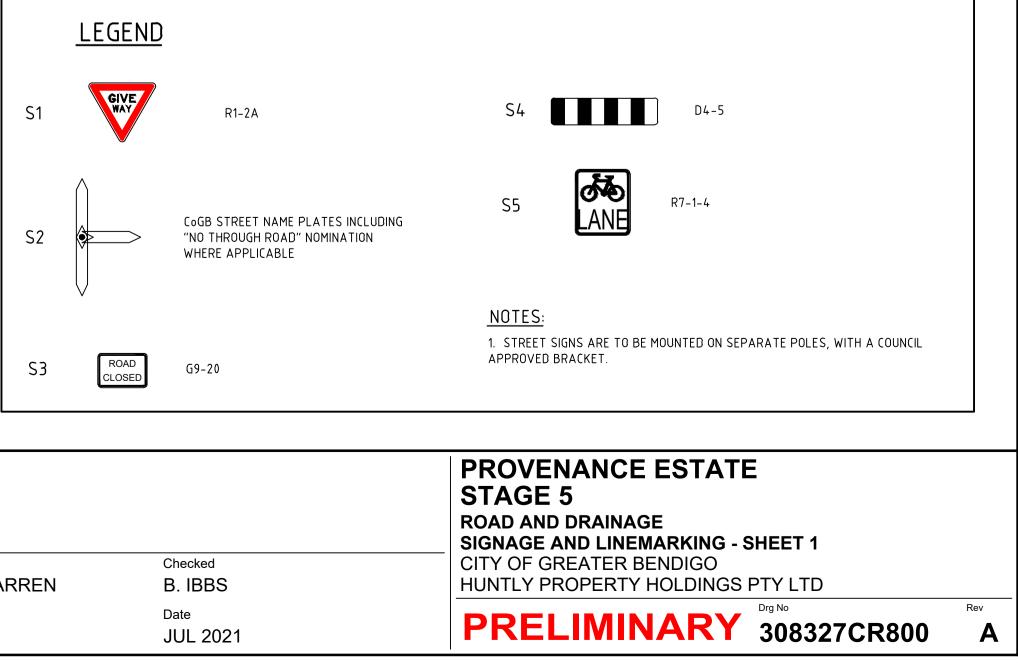
200mm WIDE x 300mm DEEP

CONCRETE EDGE STRIP





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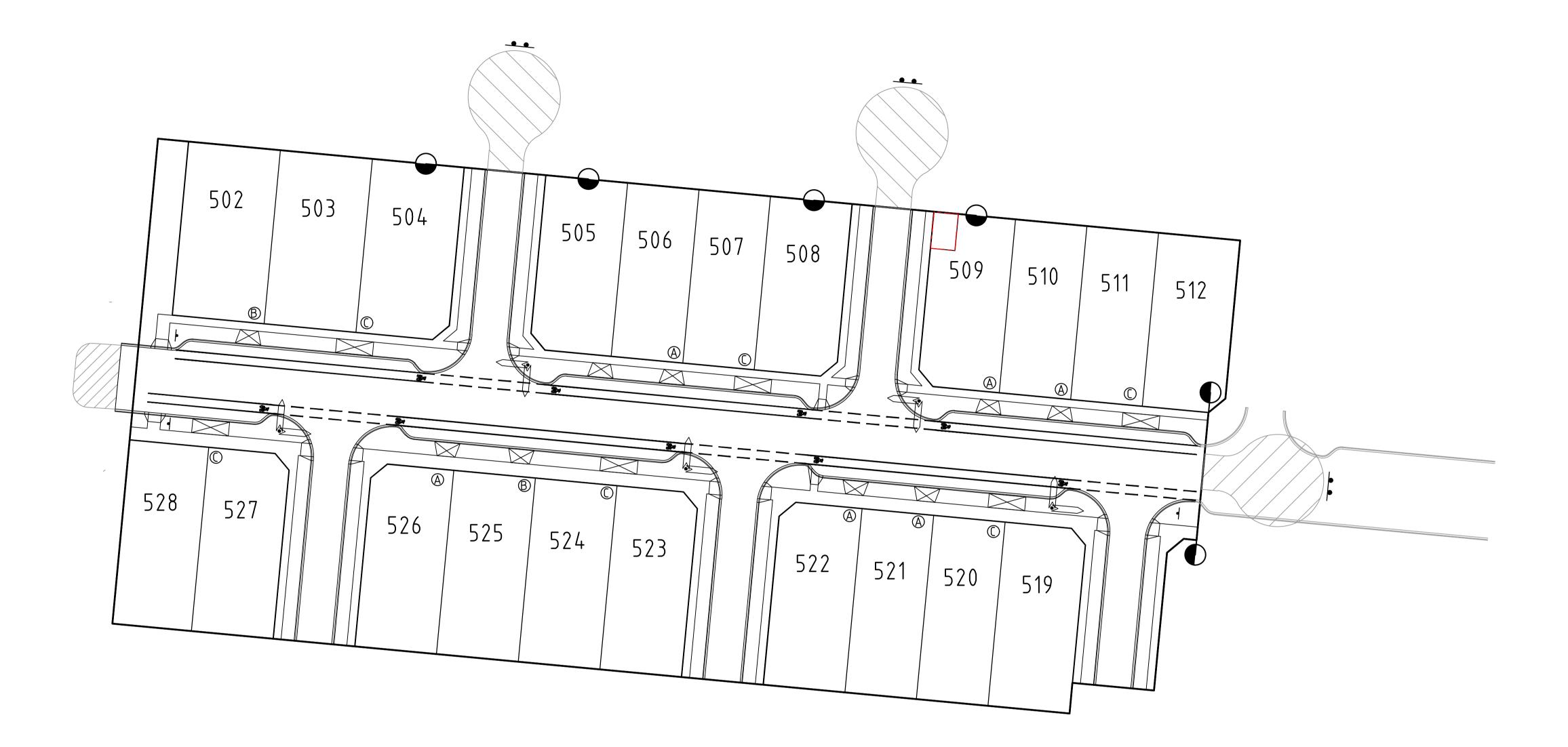
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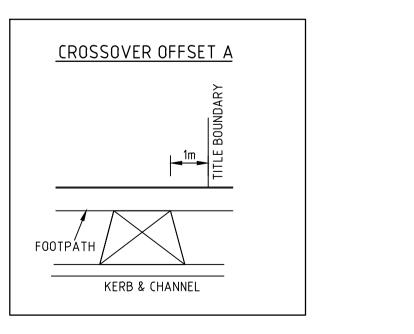
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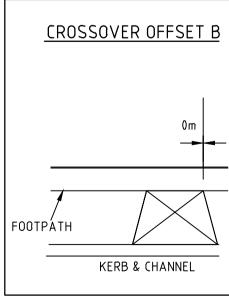






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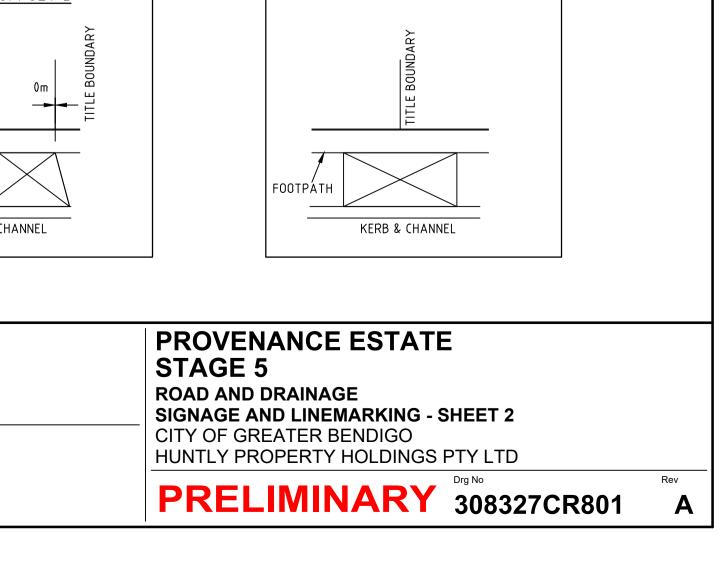


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DOUBLE CROSSOVER OFFSET

APPROVED BY: Peter Brasier

DATE: 09 March 2022