Rev | Amendments

MAIDENS GREEN STAGE 5 CONSTRUCTION CERTIFICATE KIELY ROAD PROJECTS PTY LTD

GENERAL NOTES

1. ALL WORK TO BE CARRIED OUT TO MURRAY RIVER COUNCIL 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) ZONE 55.

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, A SAFE WORK METHOD STATEMENT (SWMS) MUST BE PREPARED. ALL EXCAVATIONS ARE TO BE IN ACCORDANCE WITH THE RELEVANT NSW ACTS AND REGULATIONS.

9. COUNCIL'S REPRESENTATIVE IS TO BE NOTIFIED IN WRITING 72 HOURS 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 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

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

15. THE LOCATION OF ALL SERVICE CONDUITS ARE TO BE MARKED 5mm INTO THE FACE OF BOTH KERBS, IMMEDIATELY ABOVE THE CONDUIT WITH UNIFORM 50mm HIGH LETTER, WHERE CONDUITS CROSS FOOTPATHS, THE LOCATION IS TO BE MARKED IN THE PATH (NEAR THE EDGE) IN THE SAME FASHION.

16. ENVIRONMENTAL REQUIREMENTS - ALL TREES MUST BE PRESERVED AND PROTECTED AT ALL TIMES. TREES MARKED X ON THE

B. ROAD WORKS

DISPOSAL

1. FOOTPATHS ARE TO BE 1.5M WIDE UNLESS SHOWN OTHERWISE. FOOTPATHS TO BE CONSTRUCTED TO THE MURRAY RIVER

2. CONSTRUCT LAYBACK SECTION AT VEHICLE CROSSING, REVERSING BAYS AND CAR PARKING BAYS AND PRAM CROSSING TO MURRAY RIVER COUNCIL'S STANDARDS.

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

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 MURRAY RIVER COUNCIL 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 IN VICROADS TABLE 304.071 USING FINE CRUSHED ROCK AND THE BASE COURSE TO AN AVERAGE OF 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 (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

11. LEVEL 1 COMPACTION REPORT REQUIRED FOR ANY FILL ON THE ROAD RESERVE. THIS MUST BE PROVIDED TO MURRAY RIVER COUNCIL PRIOR TO ANY PROOF ROLL.

12. PAVEMENT TESTING IS TO BE COMPLETED IN ACCORDANCE WITH MURRAY RIVER COUNCIL 'ENGINEERING GUIDELINES FOR SUBDIVISIONS FOR SUBDIVISIONS AND DEVELOPMENT STANDARDS'.

13. THE PRE-APPROVED PREFERRED DRIVEWAY LOCATIONS SHOWN ON DRG NO. "310338CC030" ARE TO BE CONSTRUCTED BY EACH LANDOWNER AT A LATER DATE.

Approved



LOCALITY PLAN NOT TO SCALE

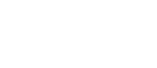


WARNING

BEWARE OF UNDERGROUND/OVERHEAD 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.



SFRVICE LOCATION TABLE

SERVICE ESCATION TABLE														
ROAD NAME		ERED TER		AW TER	G,	AS		BN ECOM)		ELECTI	SEV	WER		
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFCET	SIDE	OFFSET	PO	DLE	U/G (CABLE	SIDE	OFFSET
	SIDE			UITSLI	SIDE	OFFSET		UFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDL	UFFSET
OAKES LANE	N	2.15	N	2.55	N	2.95	N	1.00	N	1.5x	N	0.40	N	4.00
MAYFLOWER DRIVE (LOT 507 - 509)	Е	2.50	Е	3.00	Е	3.50	W	1.00	W	1.0x	W	0.40	Е	1.00
MAYFLOWER DRIVE (LOT 506)	W	2.30	W	2.80	W	3.30	W	1.00	W	1.0x	W	0.40	-	-
ROSALIND DRIVE	S	3.55	S	4.05	S	4.55	S	2.75	S	0.8x	S	2.15	-	-
KINGS CIRCUIT (LOT 509 – 513)	S	2.15	S	2.55	S	2.95	S	1.00	N	0.8x	S	0.40	S	3.73
KINGS CIRCUIT (LOT 514 – 522)	W	2.15	W	2.55	W	2.95	W	1.00	Е	0.8x	W	0.40	W	3.875

LEGEND

DESCRIPTION

UNDERGROUND ELECTRICITY

OVERHEAD ELECTRICITY & POLE

TELECOMMUNICATIONS & SERVICE PIT

COUNCIL STORMWATER DRAIN & PIT

STORMWATER DRAINAGE PIT NUMBER

PRE-APPROVED PREFERRED DRIVEWAY LOCATIONS

COUNCIL STORMWATER PITS

GAS & WATER CONDUITS

SURFACE CONTOUR MINOR

SURFACE CONTOUR MAJOR

BATTER LEVEL (TOP / TOE)

LIGHT & POLE (BY OTHERS)

PERMANENT SURVEY MARK

TEMPORARY BENCH MARK

EARTHWORK - FILL GREATER THAN 200mm

TREE (& SURVEYED CANOPY) TO BE RETAINED

SURFACE LEVEL

SIGN AND POST

STREET SIGN

BOLLARD

ROAD CHAINAGES

LOT CHAINAGE

SETOUT POINT

LIMIT OF WORKS

ROCK BEACHING

FENCE - TREE PROTECTION

FENCE - VEHICLE EXCLUSION

TREE TO BE REMOVED

VEGETATION LINE

BATTER

FENCES

EARTHWORKS GRADE

RAW WATER

GAS MAIN

SEWER & MANHOLE

SEWER RISING MAIN

FILTERED WATER MAIN, VALVE AND HYDRANT

TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG'S

GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.

× = OFFSET FROM BACK OF KERB

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ABN 55 050 029 635

Designed	Checked
D.SHEEHAN	B.IBBS
Authorised	Date
J.FEHRING	OCT 2024

MAIDENS GREEN STAGE 5 **COVER SHEET** SHEET 1 MURRAY RIVER COUNCIL KIELY ROAD PROJECTS PTV LTD

C001

EXISTING

E123.45

T124.80

CH20.06

PROPOSED

- 168.90 ---

- 169.00 —

F124.68

T124.80

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CH1<u>16</u>.57 (L/<u>R</u>)TP

CH20.06

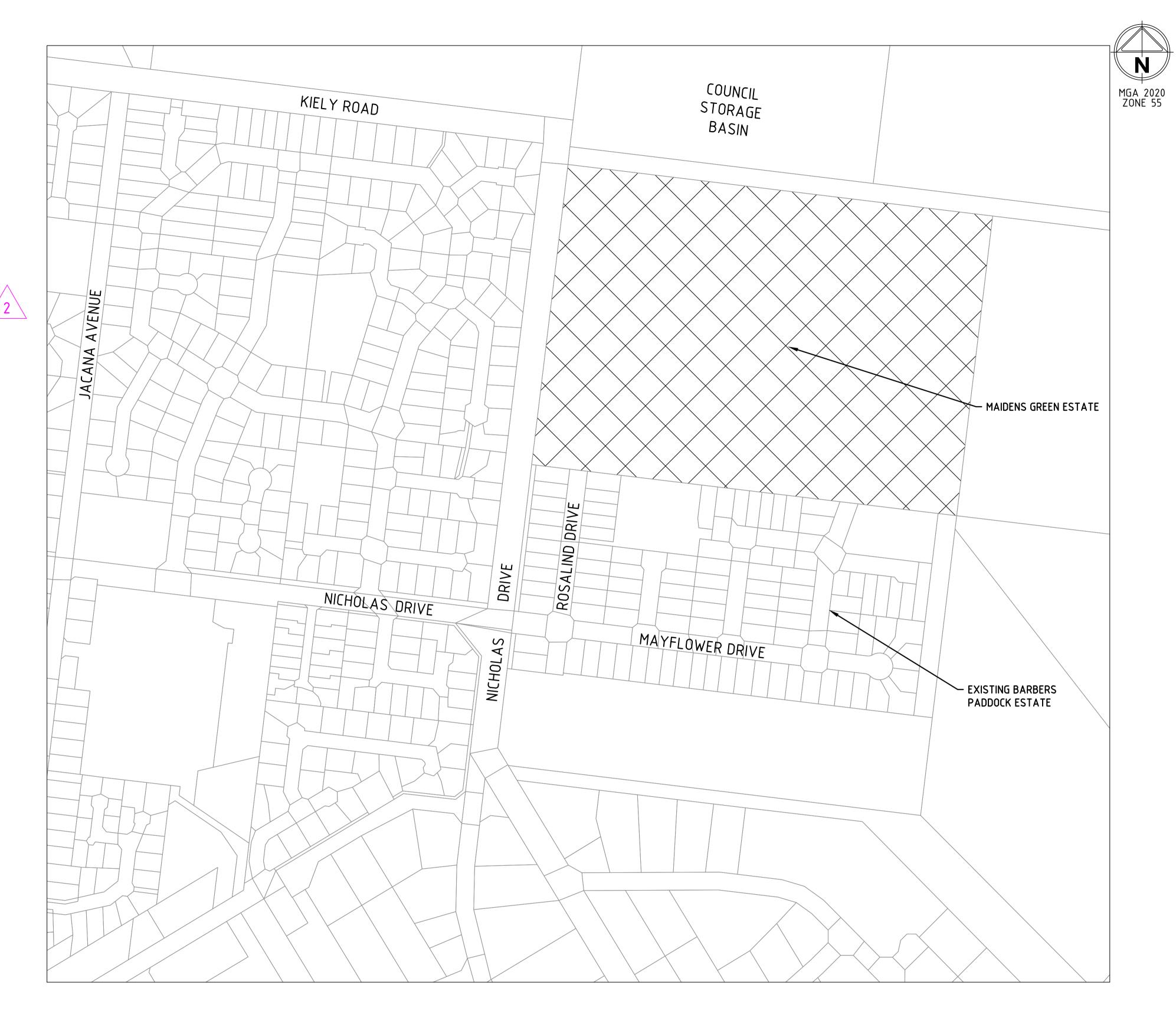
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	Drg No
TENDER	310338C

2	ISSUED FOR TENDER	J.F	12/12/24
1	AMENDED ROAD RESERVE BOUNDARIES & DRAINAGE PIT LOCATIONS	J.F	10/10/24
В	ISSUED FOR TENDER	J.F	11/06/24
Α	ISSUED FOR APPROVAL	J.F	JUL 2023

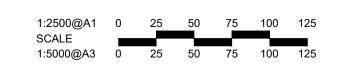
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DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
CC001	COVER SHEET	1	2
CC002	DRAWING SCHEDULE	2	2
CC005	GENERAL ARRANGEMENT PLAN - TYPICAL DETAILS AND SECTIONS	3	2
CC025	STAGING PLAN	4	2
CC030	ROAD LAYOUT PLAN	5	2
CC031	ROAD LAYOUT PLAN – CONCRETE JOINTING PLAN	6	2
CC100	ROAD LONGITUDINAL SECTIONS - ROSALIND - MAYFLOWER DRIVE & OAKES LANE	7	2
CC101	ROAD LONGITUDINAL SECTIONS – KINGS CIRCUIT	8	2
CC140	ROAD CROSS SECTIONS - MAYFLOWER DRIVE & ROSALIND DRIVE	9	2
CC141	ROAD CROSS SECTIONS - OAKES LANE	10	2
CC142	ROAD CROSS SECTIONS - KINGS CIRCUIT SHEET 1 OF 3	11	2
CC143	ROAD CROSS SECTIONS - KINGS CIRCUIT SHEET 2 OF 3	12	2
CC270	INTERSECTION DETAILS - MAYFLOWER DRIVE - OAKES LANE - KINGS CIRCUIT	13	2
CC400	HYDRAULICS - NOTES & LEGEND - DRAINAGE, SEWER & WATER NOTES	14	2
CC430	HYDRAULICS - DRAINAGE PROFILES - SHEET 1 OF 3	15	2
CC431	HYDRAULICS - DRAINAGE PROFILES - SHEET 2 OF 3	16	2
CC432	HYDRAULICS - DRAINAGE PROFILES - SHEET 3 OF 3	17	2
CC500	HYDRAULICS - SEWER & WATER - WATER LAYOUT PLAN	18	2
CC501	HYDRAULICS - SEWER & WATER - WATER DETAILS	19	2
CC502	HYDRAULICS - SEWER & WATER - SEWER LAYOUT PLAN	20	2
CC530	HYDRAULICS - SEWER PROFILES	21	2



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i e	Rev	Amendments	Approved	Date	





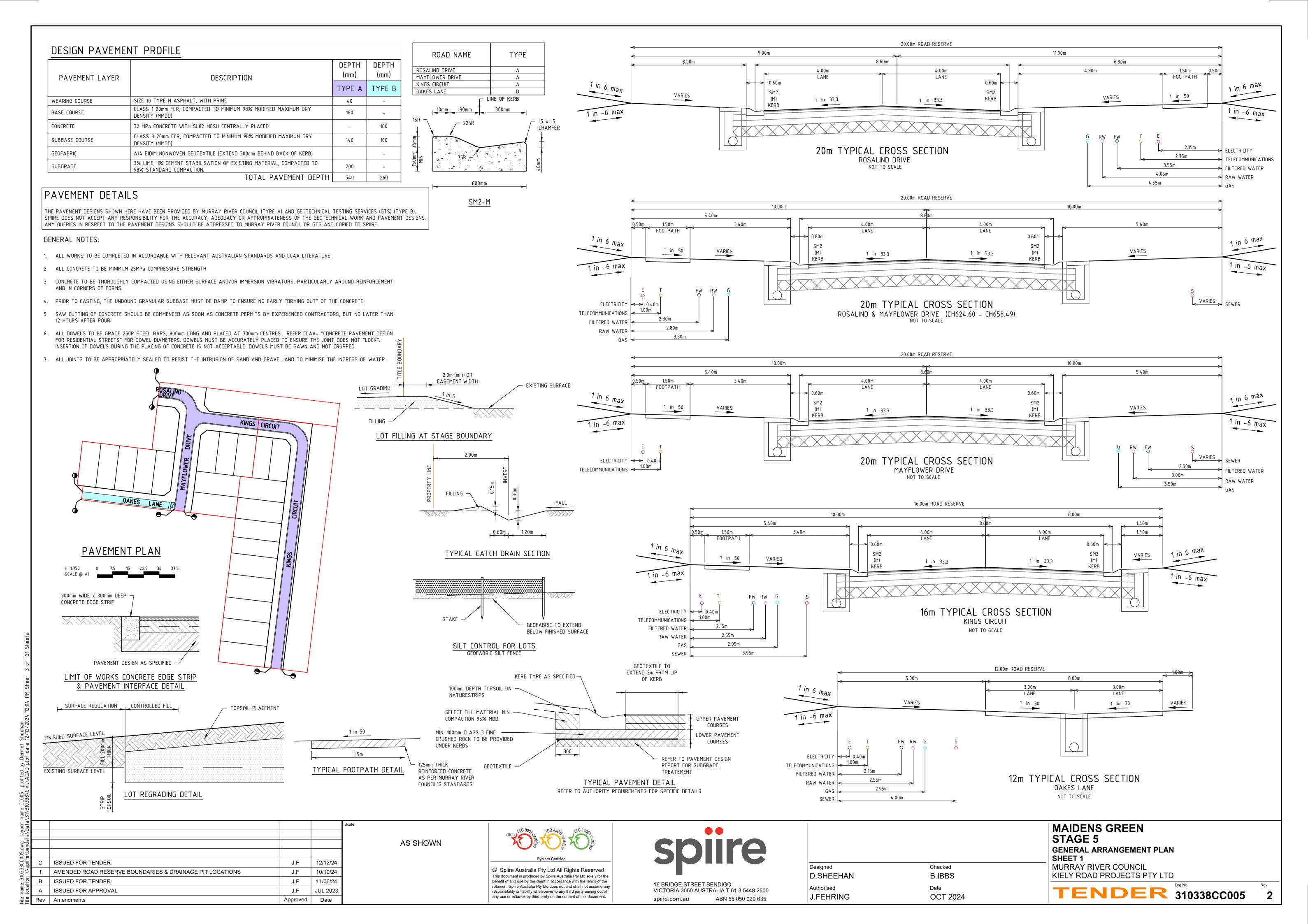
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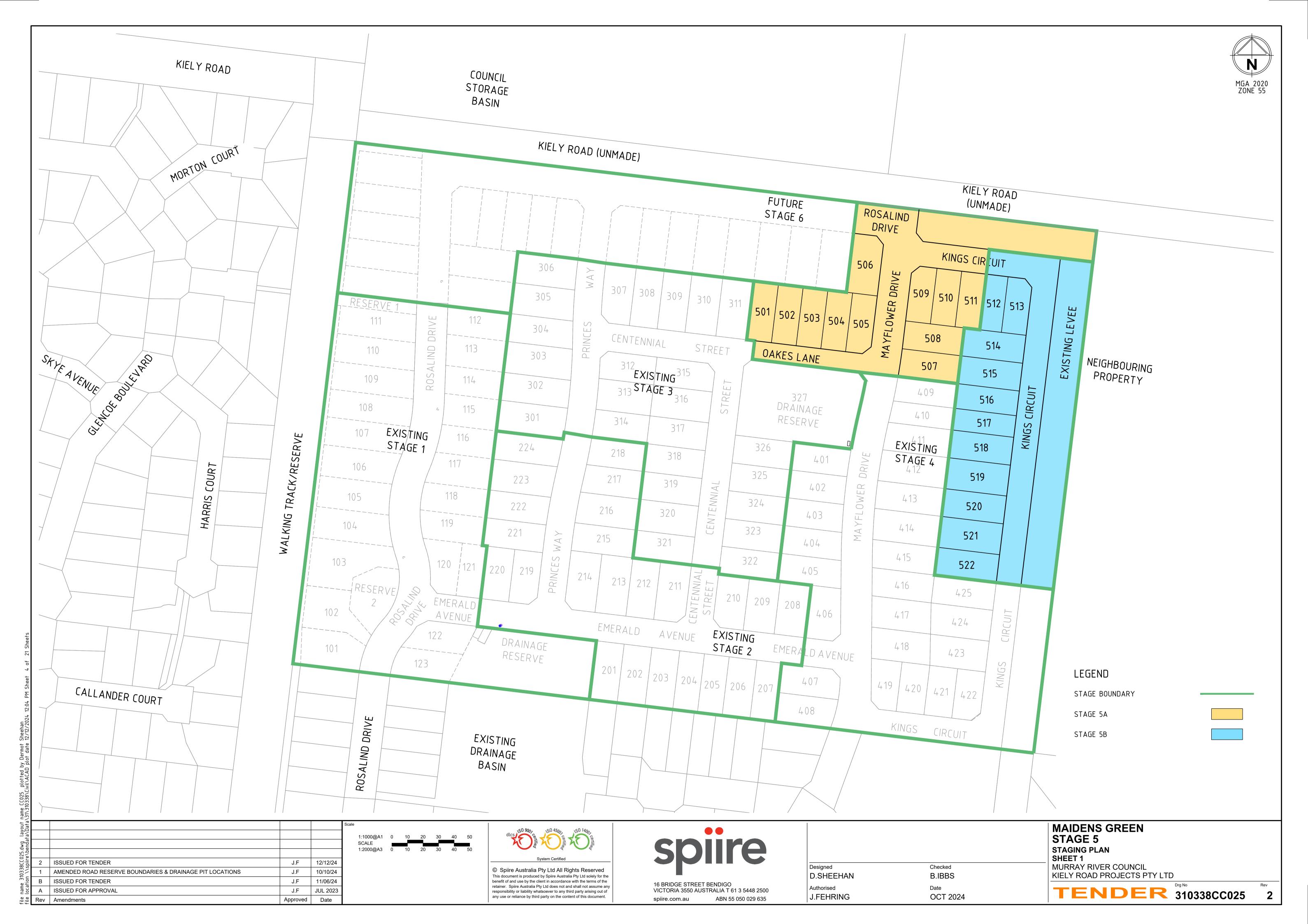


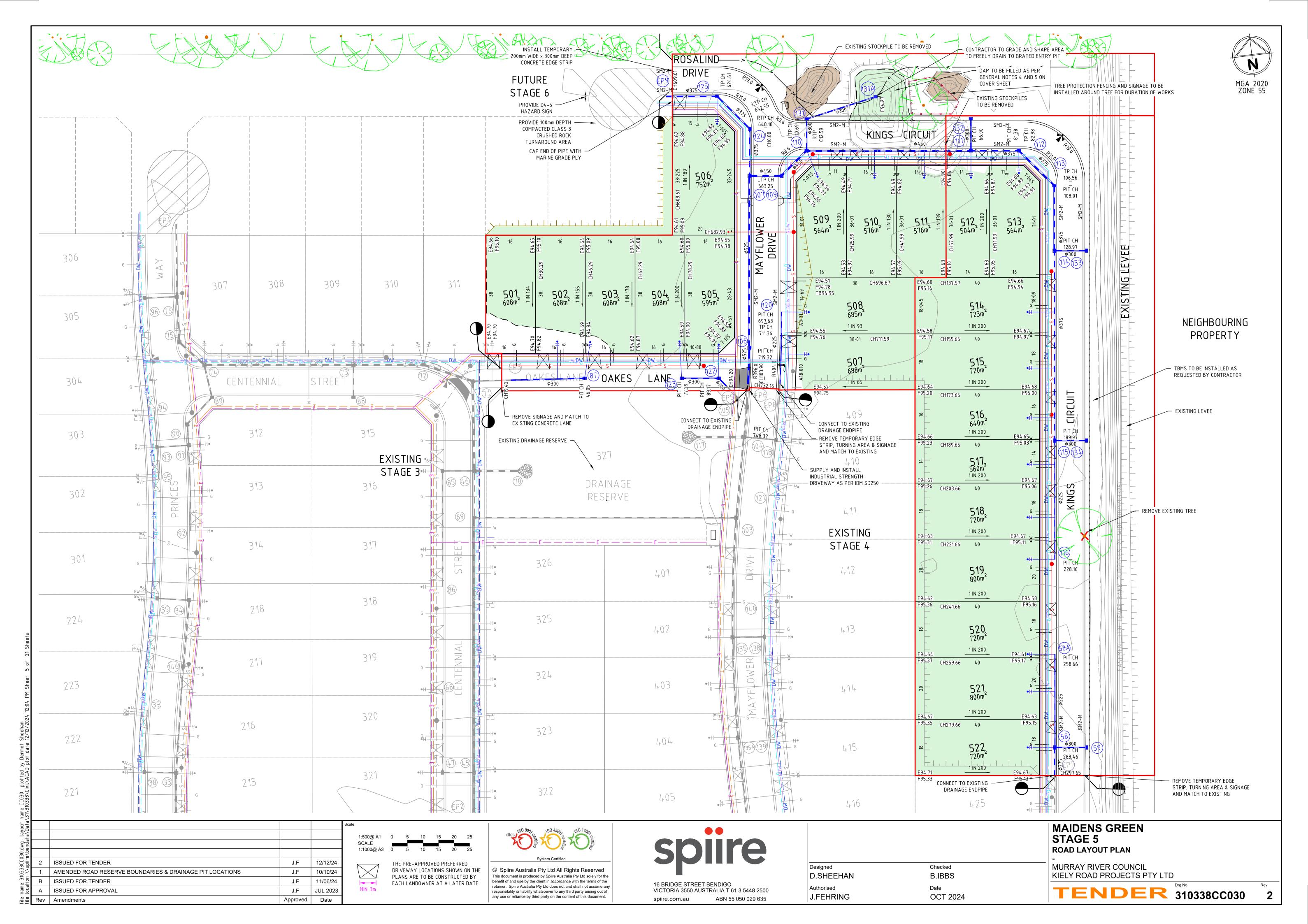
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Authorised	Date
J.FEHRING	OCT 2024

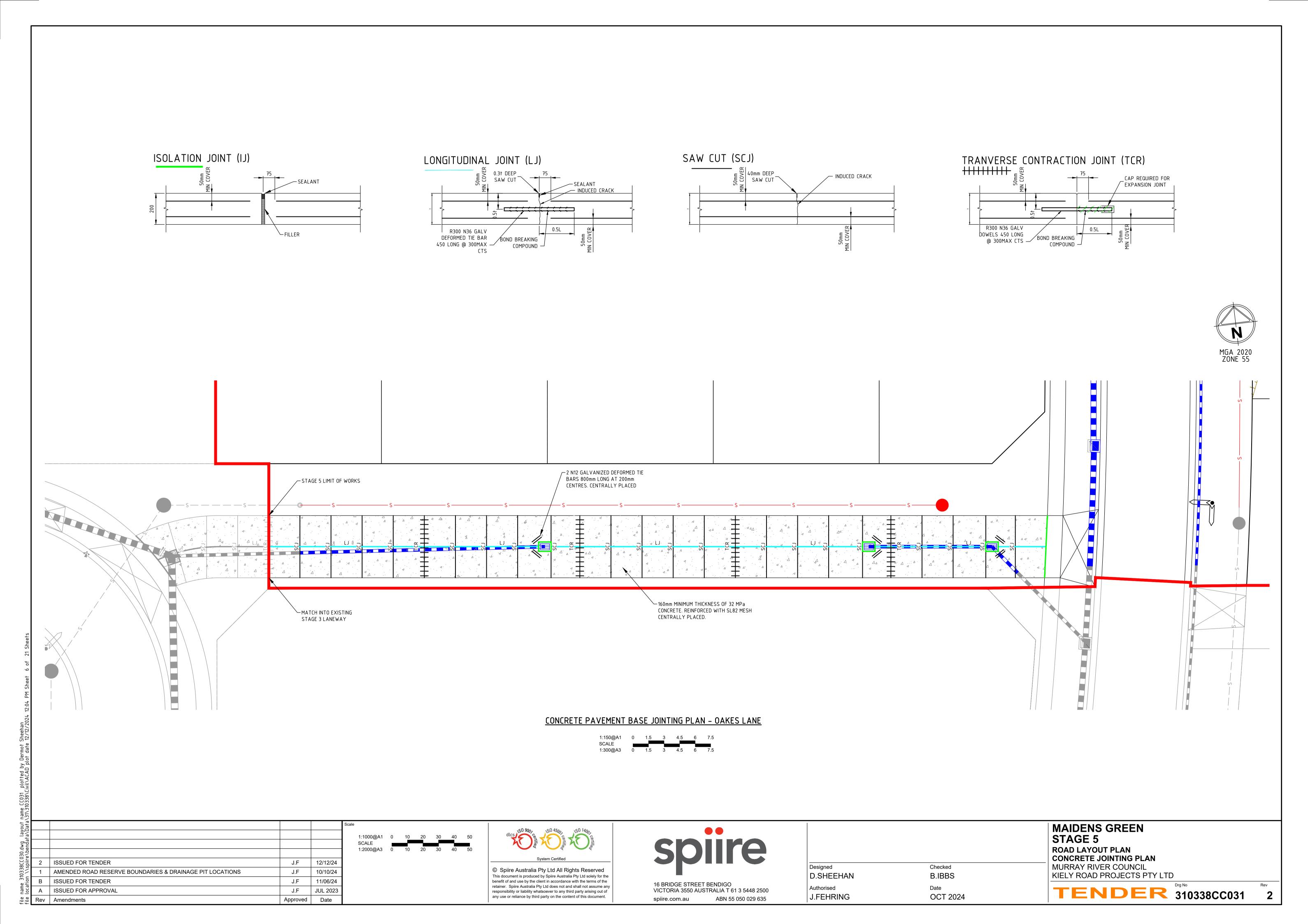
MAIDENS GREEN STAGE 5
DRAWING SCHEDULE
SHEET 1
MURRAY RIVER COUNCIL
KIELY ROAD PROJECTS PTY LTD

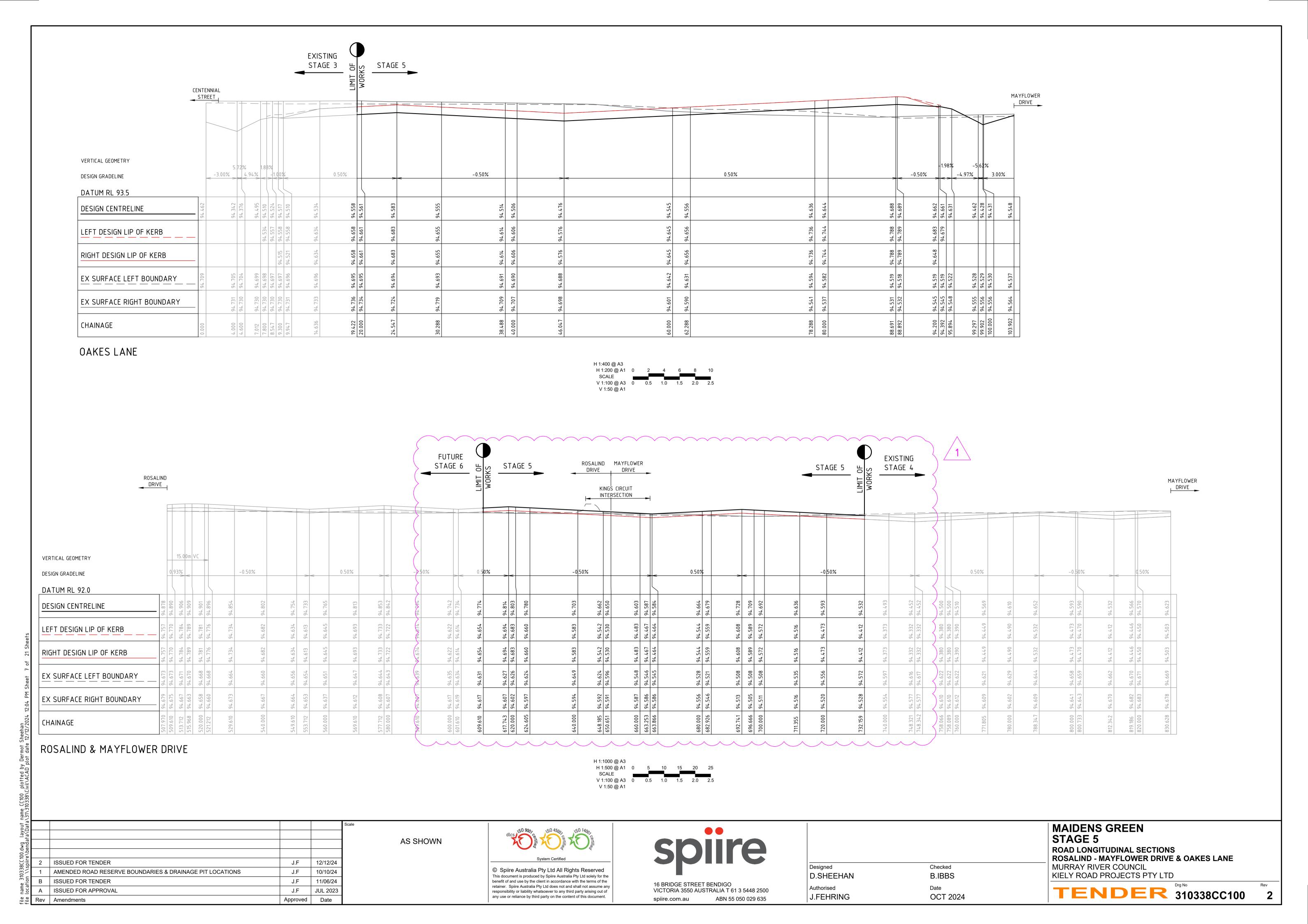












Rev Amendments

2 ISSUED FOR TENDER J.F 12/12/24 10/10/24 J.F AMENDED ROAD RESERVE BOUNDARIES & DRAINAGE PIT LOCATIONS B ISSUED FOR TENDER J.F 11/06/24 A ISSUED FOR APPROVAL J.F JUL 2023 Approved Date

Scale
H 1:1000 @ A3
H 1:500 @ A1 0 5 10 15 20 25 SCALE V 1:100 @ A3 0 0.5 1.0 1.5 2.0 2.5 V 1:50 @ A1



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Checked D.SHEEHAN B.IBBS Date Authorised J.FEHRING OCT 2024

MAIDENS GREEN STAGE 5 ROAD LONGITUDINAL SECTIONS
KINGS CIRCUIT
MURRAY RIVER COUNCIL
KIELY ROAD PROJECTS PTY LTD

TENDER 310338CC101 2

KINGS CIRCUIT

ROS	DSALIND & MAYFLO		·	v	, ,	\uparrow	· •	* * *	v	* *	•	* * *	*	• • • • •			1										<u> </u>	
ERTICAL GEOMETRY ESIGN GRADELINE	-3.00%		0.50%			-0.50%		0.50%			-0.50%			0.50%			-0.50%			0.50%				-0.50%			0.50%	-0
DATUM RL 91.0	< ><														>								><					
DESIGN CENTRELINE	94.650	94.573	079.46	94.710	94.754	869.46	94.738	94.753	94.838	998.76	94.799	94.754	94.797	94.887	756.76	94.930	668.46	94.850	94.898	94.998	95 098	95.107	95.140	95.081	94.982	94.938	94.983 94.983 94.995	95.073
LEFT DESIGN LIP OF KERB		067.46	94.520	94.590	94.634	94.588	94.618	94.633	94.718	94.748	94.679	94.634	94.677	94.767	94.834	94.810	94.779	94.730	94.778	94.878	816 76	94.987	95.020	94.961	94.862	94.818	94.863	94.953
RIGHT DESIGN LIP OF KERB		94.461	94.520	94.590	94.634	94.588	94.618	94.633	94.718	971.76	94.679	94.634	94.689	94.767	78.76	94.810	94.779	94.730	94.778	94.878		94.987	95.020	94.961	94.862	94.818	94.863	94.953
EX SURFACE LEFT BOUNDARY	17797.76	94.540	94.455	93.288	94.476	94.565	79.	94.646	94.724	94.814	94.815	94.805	94.796	94.768	94.742	94.732	94.720	769.46	94.693	94.695	869 76	769.76	489.46	94.675	94.716	94.731	94.702 94.702 94.673	94.571
X SURFACE RIGHT BOUNDARY	14.565	14.543 9	5 77.71	94.480	64.566	95.062 9	7,894	6,686	14.655 9	94.651 9	4.653	5 759.41	94.663 9	4.670 9	5 279.4	14.684	14.642	94.645	94.669 9	94.680		94.580		6 565.46	94.626 9	759.7	94.666 94.666 94.666	
HAINAGE	6 000	9 000.	888 6	40.000 9	8.824 9	9 886.75 6 000.09 9 000.99	6 000.	82.983 9	100.000	106.058 9	00000	8.956 9	137.566 9	9 559.5	8.955 9	3.655	0.000	189.655 9	200.000 9	220.000 9		241.655 9		260.000 9	279.655 9	18.605 9	297.646 9 297.655 9 300.000 9	315.606 94.608

KINGS CIRCUIT

	(INGS RCUIT														⊢'
												-			7
VERTICAL GEOMETRY															
DESIGN GRADELINE	0.5	0%			-0.5	0%		_		0.50%	-	_	_	0.50%	-
DATUM RL 92.5															
DESIGN CENTRELINE	95.070	95.073	95.073	95.051	94.973	94.951	94.873	94.873	94.895	94.991	986.46	94.973	94.973	868.46	
LEFT DESIGN LIP OF KERB	94.950	94.953	94.953	94.931	94.853	94.831	94.753	94.753	94.775	94.871	998.46	94.853	94.853	94.778	
RIGHT DESIGN LIP OF KERB	94.950	94.953	94.953	94.931	94.853	94.831	94.753	94.753	94.775	94.871	998.46	94.853	94.853	94.778	
EX SURFACE LEFT BOUNDARY	94.572	94.571	94.571	94.562	94.572	94.562	94.526	94.526	94.532	94.615	94.626	94.661	94.662	94.827	
EX SURFACE RIGHT BOUNDARY	909.46	809.46	809.46	94.621	94.598	94.580	94.538	94.538	94.533	94.592	94.595	94.602	94.602	94.626	
CHAINAGE	315.000	315.606	315.646	320.000	335.646	340.000	355.605	355.606	360.000	379.168	380.000	382.619	382.657	397.646	



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Rev Amendments

J.FEHRING

OCT 2024

12m ROAD RESERVE 3.0m NATURE STRIP DRAINAGE 6.00m CARRIAGEWAY DATUM R.L.93.0 DESIGN SURFACE LEVEL EXISTING SURFACE LEVEL OFFSET CH 62.29 OAKES LANE 1 in 141.4 1 in 213.6 — 1 in 30 — 1 in 50 — — — DATUM R.L.93.0 DATUM R.L.93.0 DESIGN DESIGN SURFACE LEVEL SURFACE LEVEL EXISTING EXISTING SURFACE LEVEL SURFACE LEVEL OFFSET OFFSET CH 94.20 OAKES LANE OAKES LANE CH 46.06 DATUM R.L.93.0 DATUM R.L.93.0 DESIGN DESIGN SURFACE LEVEL SURFACE LEVEL EXISTING EXISTING SURFACE LEVEL SURFACE LEVEL OFFSET OFFSET OAKES LANE CH 88.69 CH 30.29 OAKES LANE _____ 1in-30—___ — 1in-30—___ 1i<u>n-5</u>0 —__ —__ DATUM R.L.93.0 DATUM R.L.93.0 DESIGN SURFACE LEVEL DESIGN SURFACE LEVEL EXISTING EXISTING SURFACE LEVEL SURFACE LEVEL OFFSET OFFSET CH 19.42 CH 78.29 OAKES LANE OAKES LANE MAIDENS GREEN STAGE 5 H 1:200 @ A3 H 1:100 @ A1 0 1 2 3 4 5 V 1:100 @ A3 0 0.5 1.0 1.5 2.0 2.5 ROAD CROSS SECTIONS OAKES LANE V 1:50 @ A1 J.F 12/12/24 ISSUED FOR TENDER MURRAY RIVER COUNCIL Checked © Spiire Australia Pty Ltd All Rights Reserved AMENDED ROAD RESERVE BOUNDARIES & DRAINAGE PIT LOCATIONS J.F 10/10/24 KIELY ROAD PROJECTS PTY LTD D.SHEEHAN **B.IBBS** This document is produced by Spiire Australia Pty Ltd solely for the B ISSUED FOR TENDER J.F 11/06/24 benefit of and use by the client in accordance with the terms of the 16 BRIDGE STREET BENDIGO VICTORIA 3550 AUSTRALIA T 61 3 5448 2500 TENDER 310338CC141 2 retainer. Spiire Australia Pty Ltd does not and shall not assume any Date Authorised A ISSUED FOR APPROVAL J.F JUL 2023 responsibility or liability whatsoever to any third party arising out of J.FEHRING OCT 2024 any use or reliance by third party on the content of this document. Approved ABN 55 050 029 635 Rev Amendments Date spiire.com.au



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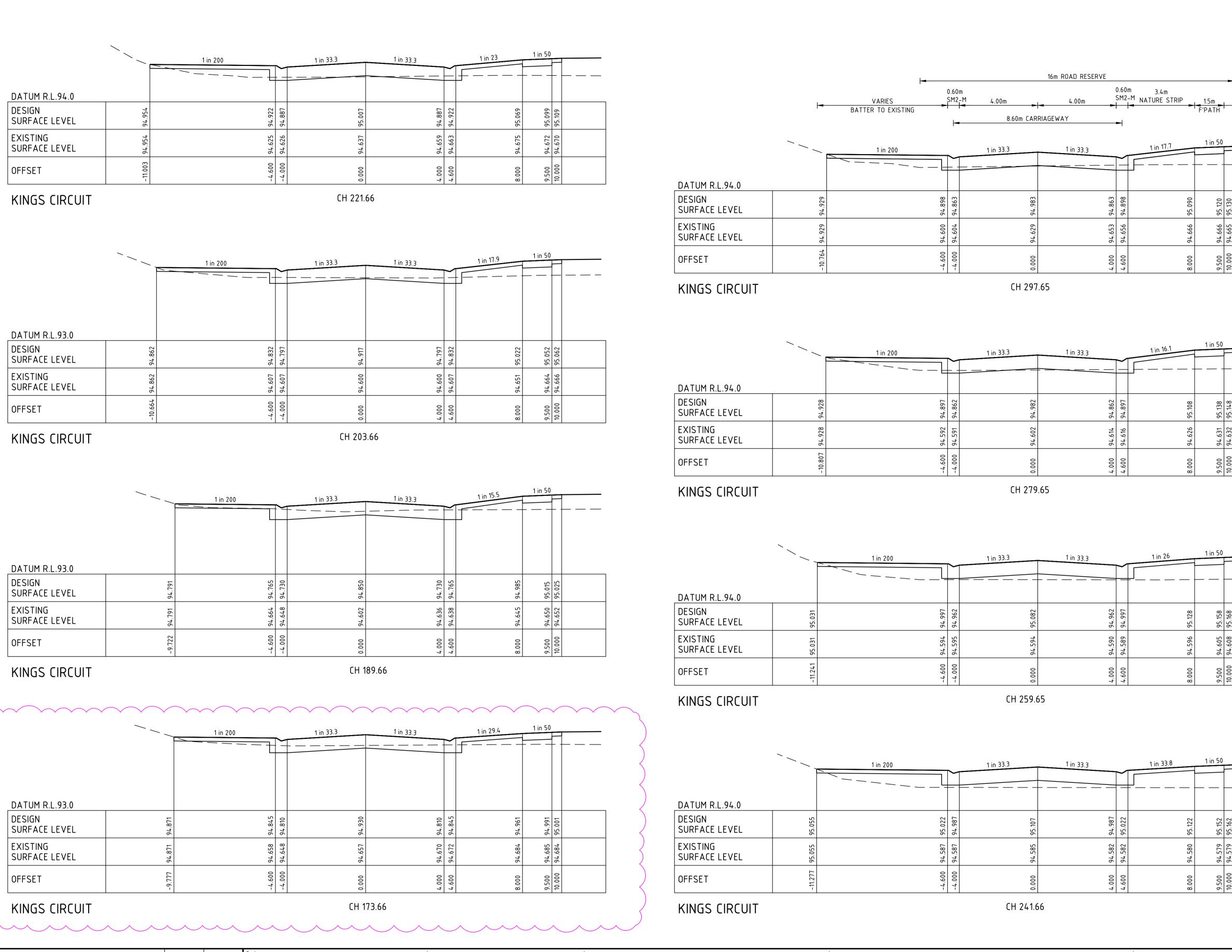
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VICTORIA 3550 AUSTRALIA T 61 3 5448 2500

ABN 55 050 029 635

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Rev Amendments

J.F 12/12/24 ISSUED FOR TENDER J.F 10/10/24 AMENDED ROAD RESERVE BOUNDARIES & DRAINAGE PIT LOCATIONS B ISSUED FOR TENDER J.F 11/06/24 A ISSUED FOR APPROVAL JUL 2023 J.F

Approved

Date





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ABN 55 050 029 635

Designed
D.SHEEHAN
Authorised J.FEHRING

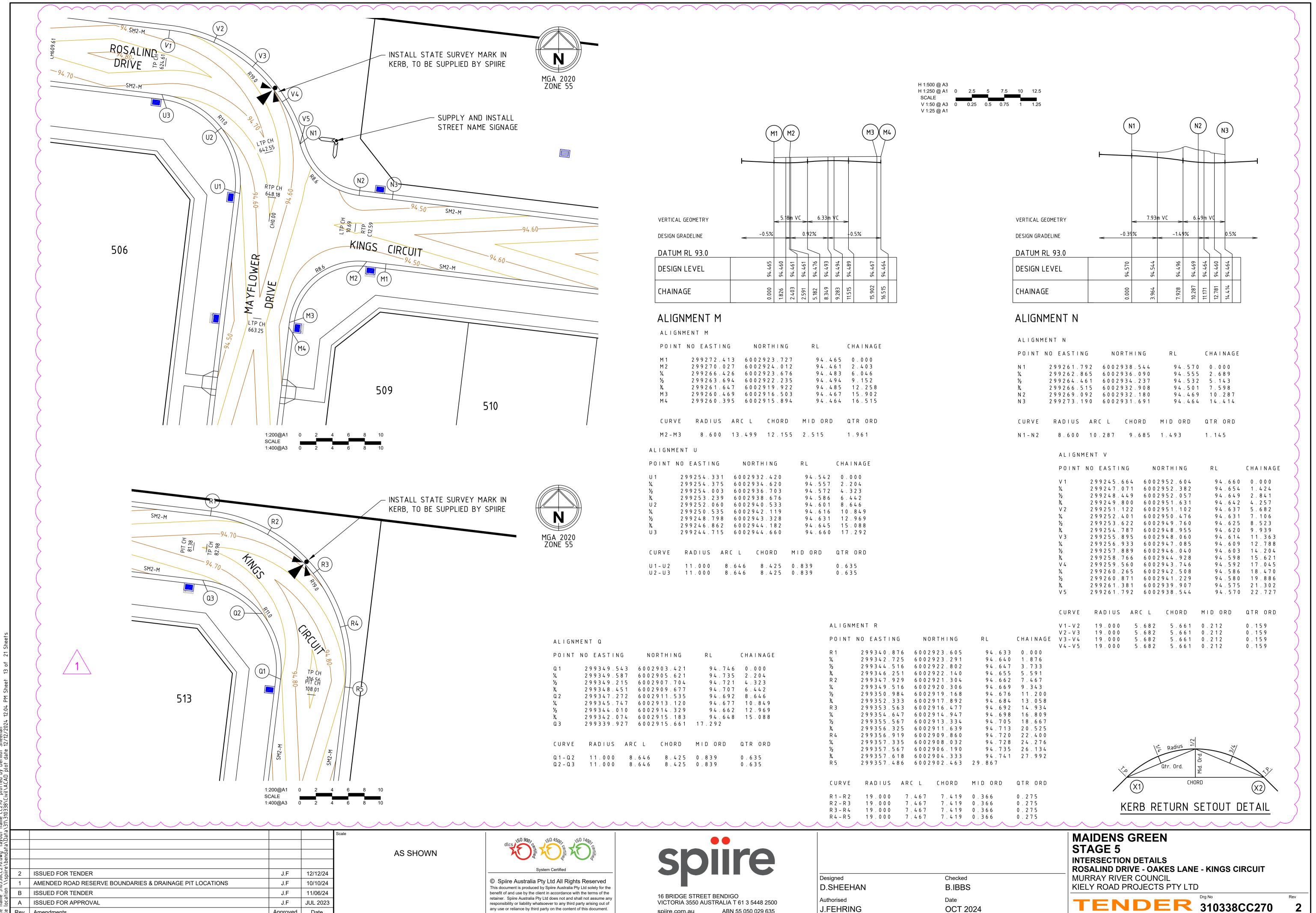
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OCT 2024

MAIDENS GREEN STAGE 5 **ROAD CROSS SECTIONS** KINGS CIRCUIT - SHEET 2 OF 3 MURRAY RIVER COUNCIL KIELY ROAD PROJECTS PTY LTD

TENDER 310338CC143 2



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Rev | Amendments

Date

GENERAL NOTES

- ONLY PRODUCTS APPROVED AND CATALOGUED BY THE WATER AGENCY SHALL BE USED.
- WORKS MUST BE CONSTRUCTED ACCORDING TO WSA 03-2011-3.1 MRWA EDITION & MURRAY RIVER COUNCIL ENGINEERING GUIDELINES. THE CONTRACTOR SHALL ENSURE THAT THEY ARE CONVERSANT WITH ALL CURRENT REVISIONS, AMENDMENTS AND UPDATES THAT THE RELEVANT WATER AGENCY HAS MADE TO THEIR STANDARDS
- DW ASSETS SHALL ONLY BE CONSTRUCTED AFTER DEEPER ASSETS AFFECTING THE WATER MAINS HAVE BEEN CONSTRUCTED (EG: SEWERAGE & DRAINAGE ASSETS).
- THIS DESIGN IS TO BE READ IN CONJUNCTION WITH ROAD AND DRAINAGE PLANS.
- THE CONTRACTOR SHALL OBTAIN A ROAD OPENING PERMIT FOR ANY WORKS WITHIN THE ROAD
- RESERVE AND COMPLY WITH ALL REQUIREMENTS OF THE ROAD AUTHORITY. FOR INTERPRETATION OF THE SYMBOLS USED IN THIS DESIGN, REFER TO DRAWING MRWA-W-100. TRAFFIC MANAGEMENT TO BE IN ACCORDANCE WITH AS1742.3 (TRAFFIC CONTROL DEVICE FOR
- WORKS IN ROADS) USE EXTREME CARE WHEN WORKING NEAR EXISTING TREES TO MINIMISE DAMAGE TO ROOT
- SYSTEM AND CANOPY. ALL TREES MUST BE PRESERVED AND PROTECTED AT ALL TIMES. TREES MARKED imes ON DESIGN
- PLANS MAY BE REMOVED.
- 10. NO BLASTING IS PERMITTED WITHIN 20M OF EXISTING WATER MAINS.

SURVEY, SET OUT AND ASSET RECORDING

- TEMPORARY BENCH MARKS (TBM) FOR THE SET OUT OF WORKS TO THE AUSTRALIAN HEIGHT DATUM (AHD) ARE PROVIDED IN THE DESIGN DRAWINGS.
- ALL LEVELS ARE IN METRES TO AHD.
- ALL CO-ORDINATES ARE IN METRES TO THE MAP GRID OF AUSTRALIA (MGA 55- 2020).
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED. THE CONTRACTOR IS DIRECTLY RESPONSIBLE FOR ENSURING THE PROJECT SET OUT IS CONSISTENT WITH THE DESIGN. SHOULD ACTUAL SITE CONDITIONS CONFLICT IN ANY WAY WITH THAT DOCUMENTED, THE CONTRACTOR SHALL CONTACT THE SUPERINTENDENT FOR
- CLARIFICATION BEFORE PROCEEDING. WHERE NOT ALLOWED FOR IN THE CONTRACT, THE CONTRACTOR IS TO ENGAGE A SUITABLY QUALIFIED AND EXPERIENCED SURVEYOR TO UNDERTAKE ASSET RECORDING OF THE WORK. ALL SURVEYOR WORKS AND DATA RECORDING SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE MRWA SURVEY MANUAL
- 17. ALL SPECIFIC PIPE MATERIALS (EG: PVC-0) SHALL BE INDICATED IN THE AS CONSTRUCTED INFORMATION

PRODUCTS AND MATERIALS

- ALL INSERTION/GASKET KITS ARE TO INCLUDE STAINLESS STEEL FASTENERS.
- FOR THE PIPE SCHEDULE, REFER TO TABLE .1.
- FOR THE PIPE MATERIAL SCHEDULE, REFER TO TABLE. 2.
- 21. ALL WATER MAINS TO BE RRJ PVC-M SERIES 1 CLASS 12, UNLESS OTHERWISE NOTED.
- 22. WHERE PE PIPE CONSTRUCTION IS REQUIRED, REFER TO DRAWING MRWA-W-103 AND WSA 01 (PE PIPELINE CODE). WELDERS SHALL BE ACCREDITED TO PMBWELD302B (ELECTROFUSION). BUTT WELDING IS NOT ACCEPTED BY MURRAY SHIRE COUNCIL
- ALL HANDLING OF PIPES & FITTINGS TO BE CARRIED OUT IN ACCORDANCE WITH GENERAL SPECIFICATION FOR CONSTRUCTION OF PRESSURE PIPES.

APPURTENANCES (FITTINGS)

- 24. ALL VALVES AND HYDRANTS SHALL BE MARKED ACCORDING TO DRAWINGS MRWA-W-300 AND MRWA-W-301.
- 25. VALVE SURROUNDS, COVERS AND SPINDLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH DRAWING MRWA-W-302.
- 26. HYDRANT SURFACE ARRANGEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DRAWINGS
- FLANGE AND FLANGE BOLTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DRAWINGS
- MRWA-W-306A AND MRWA-W-306B. FOR THE HYDRANT AND WASHOUT SCHEDULE, REFER TO TABLE .3.
- 25. ALL VALVES SHALL BE LOCATED DIRECTLY OUT FROM THE APEX OF THE SPLAY CORNER (UNLESS OTHERWISE INDICATED).
- 26. ALL VALVES ARE TO BE ANTI-CLOCKWISE CLOSING

WATER MAIN ALIGNMENT, TRENCHING & COVER

- 27. TRENCH, PIPE PLACEMENT, EMBEDMENT AND BACKFILL DIMENSIONS AS PER STANDARD DRAWING MRWA-W-202
- 28. OFFSETS OF MAINS FROM PROPERTY BOUNDARIES SHALL BE; MIN 600MM (MAINS < DN100) AND MIN 1M (MAINS > DN100), EXCEPT WHERE INDICATED IN THE DRAWINGS.
- 29. ALL WATER MAINS SHALL PASS OVER DRAINS AND SEWERS UNLESS SHOWN OTHERWISE IN THE DESIGN DRAWINGS.
- MAINS SHALL BE ALIGNED IN ACCORDANCE WITH THE SERVICES ALIGNMENT SCHEDULE, REFER TO TABLE .5.
- 31. THE MAXIMUM DEPTH FROM THE SURFACE LEVEL TO TOP OF PIPE MUST NOT EXCEED 1.5M

EMBEDMENT

- 32. UNLESS OTHERWISE APPROVED BY THE WATER AGENCY, ALL EMBEDMENT MATERIALS SHALL BE
- IN ACCORDANCE WITH WSA-PS-361. 33. EMBEDMENT SHALL BE PLACED AS PER DRAWINGS MRWA-W-201 AND MRWA-W-202.

BACKFILL

- 34. BACKFILL IN TRAFFICABLE AND NON-TRAFFICABLE AREAS SHALL BE IN ACCORDANCE WITH MRWA SPECIFICATION NO. 04-03.1 (BACKFILL SPECIFICATION), AND AS DETAILED IN MRWA-W-201. THE CONTRACTOR IS REQUIRED TO OBTAIN WRITTEN CONFIRMATION OF THE ROAD AUTHORITIES ACCEPTANCE OF THE PROPOSED BACKFILL.
- COMPACTION TRIALS AND COMPACTION TESTING SHALL BE UNDERTAKEN IN ACCORDANCE WITH
- THE MRWA BACKFILL SPECIFICATIONS. TRENCH SUBSIDENCE OVER WATER MAINS IS NOT ACCEPTABLE.
- 37. ALL TRENCHES CROSSING PAVEMENT AREAS OR BENEATH KERB OR FOOTPATH ARE TO BE BACKFILLED WITH CLASS 3 20MM FINE CRUSHED ROCK.
- 38. ALL ROAD CROSSINGS FOR PROPERTY SERVICES TO BE BACKFILLED WITH 3% CEMENT STABILISED FCR.

THRUST RESTRAINT

- 39. FOR THE THRUST RESTRAINT SCHEDULE, REFER TO TABLE 6.
- 40. CONSTRUCT CONCRETE THRUST RESTRAINTS AS PER DRAWINGS MRWA-W- 204, 205A, 205B & 205C AS APPLICABLE.
- 41. THE CONTRACTOR SHALL CONFIRM THE ACTUAL GROUND CONDITIONS (USING STANDARD DRAWING MRWA-W-200 AS A GUIDE) AND DISCUSS WITH THE SUPERINTENDENT ANY GROUND CONDITIONS WHICH ARE FOUND TO BE DIFFERENT TO THAT NOMINATED. THE NOMINAL AHBP OF THE GROUND USED IN CALCULATING EACH THRUST RESTRAINT IS 50KPA.

CONNECTIONS (ALL TYPES)

- 42. CONNECTION OF > DN100 OFFTAKES TO EXISTING MAINS SHALL BE AS INDICATED IN THE DESIGN
- DRAWINGS AND AS PER DRAWING MRWA-W-106. 43. CONNECTION OF DN40, 50 & 63 PE OFFTAKES SHALL BE AS PER DRAWING MRWA-W-107.
- 44. ALL WATER SERVICE ROAD CROSSINGS TO BE 32mm PN8 POLY (IF TWO PROPERTIES BEING CONNECTED) OR 25MM PN8 POLY (IF SINGLE PROPERTY CONNECTED). EACH SERVICE TO BE SLEEVED IN 50MM CLASS 12 UPVC.
- 45. WATER TAPPINGS (TREATED AND RAW) INCLUDING TAPPING SADDLES AND 20mm COPPER SERVICE CONNECTIONS, METER STOP TAP (TREATED) AND BALL VALVE QUICK ACTION (RAW) TO BE PROVIDED 1m WITHIN EACH LOT. TAPPING SADDLES ARE TO BE GUNMETAL STYLE ONLY. SEE STANDARD DRAWING (TO BE REQUESTED FROM MURRAY RIVER COUNCIL).

OTHER SERVICES

- 46. TO RECEIVE THE MOST UP TO DATE INFORMATION PRIOR TO CONSTRUCTION, "DIAL BEFORE YOU DIG "SHALL BE UNDERTAKEN TO AID IN THE LOCATION OF OTHER SERVICES. OTHER SERVICES SHALL BE CAREFULLY LOCATED PRIOR TO FULL EXCAVATION AT THE CONTRACTOR'S RISK AND COST. ANY CLASHES OF PROPOSED NEW WORKS WITH OTHER ASSETS SHALL BE REPORTED TO THE SUPERINTENDENT IMMEDIATELY FOR CLARIFICATION.
- THE LOCATION AND DEPTH OF ANY EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL LOCAL SERVICE AUTHORITIES.
- 48. OFFSETS TO OTHER SERVICES SHALL BE AS PER TABLE 5 OR OTHERWISE AS PER TABLE 5.5 OF WSA03-2011-3.1 MRWA EDITION. THESE CLEARANCES SHALL APPLY TO SURFACE COVERS AS WELL AS UNDERGROUND ASSETS.
- 49. VERTICAL CLEARANCES FROM OTHER SERVICES SHALL BE AS PER TABLE 7
- 50. LAY MAINS OVER DRAINS UNLESS OTHERWISE SHOWN.
- 51. GAS & WATER MAINS TO BE LAID IN A COMMON TRENCH.

- 52. THE CONTRACTOR MUST RECORD ALL CONSTRUCTION DETAILS INCLUDING OFFSETS OF MAINS AND LOCATIONS OF FITTINGS SUCH AS VALVES, TEES, FIRE PLUGS ETC. AND TESTING DETAILS, USING APPROPRIATE "LINE SHEETS"
- "LINE SHEETS" ARE TO BE PROVIDED TO THE SUPERVISING ENGINEER AS AS CONSTRUCTED PLANS, WITHIN 1 WEEK OF THE COMPLETE OF THE WORKS.

TESTING, ASSET ACCEPTANCE AND LIVE CONNECTIONS

- 54. POST CONSTRUCTION ACTIVITIES SUCH AS SWABBING, WATER QUALITY TESTING, PRESSURE TESTING AND CHLORINATION SHALL BE CARRIED OUT IN ACCORDANCE WITH WSA03-2011-3.1 MRWA EDITION AND THE MRWA WATER QUALITY COMPLIANCE SPECIFICATION & MURRAY RIVER COUNCIL REQUIREMENTS. ALL TEST RESULTS SHALL BE DOCUMENTED AND REPORTED TO THE SUPERINTENDENT.
- THE CONTRACTOR SHALL PROVIDE 14 DAYS NOTICE TO THE SUPERINTENDENT PRIOR TO TESTING BEING UNDERTAKEN.
- THE CONTRACTOR SHALL PROVIDE AT LEAST 10 DAYS NOTICE TO THE SUPERINTENDENT PRIOR TO CONNECTING NEW WORKS TO THE EXISTING NETWORK. SHUT DOWN WORK SHALL BE SCHEDULED FOR 9AM WEEKDAYS AND BE COMPLETED BETWEEN 9AM - 4PM.
- 57. VALVES CONNECTING NEW ASSETS TO MURRAY RIVER COUNCIL'S LIVE SYSTEM SHALL ONLY BE OPERATED BY MURRAY RIVER COUNCIL.
- 58. ALL WORKS MUST BE CONSTRUCTED AND FINISHED IN A TRADESMANSHIP LIKE MANNER.

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. SIDE ENTRY PIT THROAT CLEARANCE TO BE 100mm MAX.
- 5. PIT LIDS TO BE CLASS B IN NON-TRAFFICABLE AREAS AND CLASS D IN TRAFFICABLE AREAS.
- TRENCHES WITHIN PAVEMENT AREAS ARE TO BE BACKFILLED WITH CLASS 4 FCR. THE TRENCH IS TO BE BACKFILLED IN 150MM LAYERS AND CONSOLIDATED.
- 7. ALL PIPE STUBS ARE TO CONSIST OF ONE FULL PIPE LENGTH UNLESS SHOWN OTHERWISE.
- 8. 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 BACK OF KERB LEVELS.
- 9. STEP IRONS ARE NOT REQUIRED IN DRAINAGE PITS.
- 10. CONCRETE PIPES ARE TO BE CLASS 2 RRJ RCP AND PVC PIPES ARE TO BE CLASS SN8 UNLESS OTHERWISE
- 11. ALL EXCAVATIONS FOR DRAINAGE WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEW SOUTH WALES WORK COVER AUTHORITY.
- 12. REINFORCEMENT BARS SHALL COMPLY WITH AS4671, GRADE 400Y. LAPS IN REINFORCEMENT BARS SHALL BE 300 MIN. AND CLEAR COVER 50 MIN.
- 13. CONCRETE SHALL BE NORMAL CLASS N32 STANDARD STRENGTH GRADE OR HIGHER COMPLYING WITH THE REQUIREMENTS OF AS1379.
- 14. ENDWALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RELEVANT PROVISIONS OF AS3600.
- 15. DIRECT CONNECTION OF PVC HOUSE DRAIN TO RCP DRAINAGE TO BE CONSTRUCTED WITH "CONCONECT" OR APPROVED EQUIVALENT FITTING. 150mmø 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.
- 16. 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.
- 17. ALL DRAINAGE PIPES ARE TO BE INSPECTED VIA CCTV AFTER INSTALLATION, HARD COPY AND ELECTRONIC COPY OF THE CCTY IS TO BE PROVIDED TO MURRAY RIVER COUNCIL. CCTV MUST INCLUDE GRADES.

SEWER NOTES

- ALL LEVELS ARE IN METRES TO AUSTRALIAN HEIGHT DATUM (A.H.D.)
- CO-ORDINATES FOR SETTING OUT, WHERE SHOWN, ARE TO M.G.A.
- WORKS MUST BE TO CONSTRUCTED ACCORDING TO THE WSA SEWERAGE CODE OF AUSTRALIA WSA 02-2014-3.1. THE CONTRACTOR SHALL ENSURE THAT THEY ARE CONVERSANT WITH THE CURRENT REVISIONS, AMENDMENTS, SPECIFICATIONS, STANDARD DRAWINGS AND UPDATES THAT MURRAY RIVER COUNCIL HAVE MADE TO THEIR CONSTRUCTION STANDARD
- 4. ALL MATERIALS ARE TO BE IN ACCORDANCE WITH MURRAY RIVER COUNCIL'S PREFERRED EQUIPMENT MANUFACTURERS LIST.
- 5. THE CONTRACTOR MUST CLEARLY UNDERSTAND THE REQUIREMENTS OF THE WSA CODE FOR THE CONSTRUCTION OF MH'S AND THEIR BASES. REFER TO THE WSA 300 SERIES DOCUMENTS WITH CLEARLY DETAIL MINIMUM REQUIREMENTS AND DIMENSIONS IN MILLIMETRES ETC. ACCEPTABLE TO
- MURRAY RIVER COUNCIL.
- TRENCH SUBSIDENCE OVER SEWER MAINS IS NOT ACCEPTABLE TO MURRAY RIVER COUNCIL CHAINAGES WHERE SHOWN ON DETAIL PLANS ARE DISCONTINUOUS AT MAINTENANCE
- STRUCTURES. CHAINAGES SHOWN ON LONGITUDINAL PLANS ARE CONTINUOUS.
- 9. PIPE MATERIAL, UNLESS SHOWN OTHERWISE
- PIPELINE MATERIALS

PIPE TYPE	PIPE CLASS	AUS. STANDARD	LOCATION
PVC	SN10	AS/NZS 1260-2009	100¢ PROPERTY BRANCHES
PVC	SN8	AS/NZS 1260-2009	150¢ RETICULATION SEWERS
PVC	SN8	AS/NZS 1260-2009	225¢ RETICULATION SEWERS

NOTE: SEWERPRO PIPE IS NOT ACCEPTABLE.

- 10. ACCESS CHAMBERS
- A. ACCESS CHAMBER COVERS SHALL BE LEVEL WITH AND SHALL CONFORM TO SLOPE AND CROSSFALL OF THE FINISHED SURFACE. THE FINISHED SURFACE LEVELS SHOWN ARE APPROXIMATE ONLY. THE PRINCIPAL CONTRACTOR IS RESPONSIBLE FOR SETTING THE CONSTRUCTION LEVELS INCLUDING COVER GRADES BASED ON THE ROAD AND DRAINAGE PLANS. ALL SEWER COVERS ARE TO BE CONSTRUCTED TO THESE LEVELS. MAXIMUM SLOPE FOR CLASS C OR D COVERS TO BE 1 IN 10.

MAXIMUM SLOPE FOR CLASS A OR B COVERS TO BE 1 IN 4. ACCESS CHAMBERS AND INSPECTION SHAFTS IN ROAD RESERVES AND R.O.W.'S CONSTRUCTED PRIOR TO THE CONSTRUCTION OF FOOTPATHS SHALL BE PROVIDED WITH A TEMPORARY COVER. THE PLACING OF THE FINAL COVER SHALL NOT BE CARRIED OUT UNTIL THE CONCRETE FOOTPATH HAS BEEN CONSTRUCTED. ALL MAINTENANCE HOLE COVERS IN ROAD RESERVE MUST BE A CLASS D SOLID

DUCTILE IRON LID. B. ALL ACCESS CHAMBERS TO BE 1050MM DIAMETER UNLESS OTHERWISE SHOWN.

11. EARTHWORKS

IN AREAS SUBJECT TO EARTHWORKS, THE CONSTRUCTION OF SEWERS MUST NOT COMMENCE UNTIL THE EARTHWORKS HAVE BEEN COMPLETED OR THE SUPERINTENDENT GIVES WRITTEN APPROVAL TO COMMENCE. SUCH APPROVAL WOULD NOT BE GIVEN UNLESS THE CONTRACTOR CAN DEMONSTRATE THAT THE SEWER WOULD BE SATISFACTORILY PROTECTED AGAINST DAMAGE FROM CONSTRUCTION LOADS.

WHERE CLEAR COVER LESS THAN 600MM, TYPE F2C BEDDING AND COVERING SHALL BE PLACED AROUND SEWERS. UNDER ROAD PAVEMENTS WHERE THE CLEARANCE BETWEEN THE TOP AND BOTTOM OF BOXING AND TOP OF SEWER IS LESS THAN 900MM, TYPE F2C BEDDING AND COVERING SHALL BE PLACED AROUND SEWERS.

- 12. THE CONTRACT IS IN ACCORDANCE WITH AS2124-1992. IN ACCORDANCE WITH CLAUSE 15 OF. AS2124-1992, THE CONTRACTOR MUST ENSURE THE SAFETY OF THE CONTRACTORS EMPLOYEES AND ALL OTHER PEOPLE WHO ARE ON OR ADJACENT THE SITE.
- 13. MURRAY RIVER COUNCIL MUST BE NOTIFIED BY THE CONTRACTOR 72 HOURS PRIOR TO COMMENCING WORKS ON EXISTING SEWER.
- 14. CONNECTION TO LIVE SEWER:

CONFINED SPACE ENTRY MUST BE IN ACCORDANCE WITH BOTH MURRAY RIVER COUNCIL AND WH&S REQUIREMENTS. CONTRACTOR MUST NOT ENTER A CONFINED SPACE UNTIL ALL REQUIRED INFORMATION HAS BEEN SUBMITTED TO MURRAY RIVER COUNCIL.

- 15. PROPERTY BRANCH FITTINGS MUST BE LOCATED AT LEAST 1m WITHIN PROPERTY BEING SERVICED, AND CLEAR OF ANY OBSTRUCTIONS. PROPERTY CONNECTION POINT JUMP UPS ARE TO BE FINISHED 1m ABOVE FINISHED SURFACE LEVEL AS PER MURRAY RIVER COUNCIL REQUIREMENTS, PROPERTY BRANCH MUST BE A MINIMUM 1m FROM SIDE BOUNDARIES.
- 16. 7 CLEAR DAYS NOTICE PRIOR TO COMMENCEMENT OF THE WORKS MUST BE GIVEN TO THE
- 17. WSA CODE REQUIREMENTS FOR MINIMUM VERTICAL, AND HORIZONTAL CLEARANCES FROM THE SEWER ASSETS TO OTHER SERVICES ARE NOT COMPROMISED.
- 18. ALL MH'S PROPOSED TO BE LOCATED WITHIN LOTS, CLOSE TO THE FOOTPATHS/STREET FRONTAGES. WHERE PROPOSED FINISHED SURFACES ARE CONTOURED, OR SLIGHTLY HIGHER THAN A FOOTPATH OR OTHER SURFACES. MURRAY RIVER COUNCIL REQUIRES THE CONCRETE COVERS OF THE MH'S CONSTRUCTED IN THESE LOCATIONS, USING A TAPERED PRECAST CONCRETE MAKE UP RINGS, OR PRECAST SPACER RINGS. REFER TO SEW-1308-V OF THE CODE.
- 19. SERVICE CONNECTIONS
- ALL NEW SERVICE CONNECTIONS MUST BE IN ACCORDANCE WITH THE REQUIREMENTS OF MURRAY RIVER COUNCIL SPECIFICATION OF WORKS FOR CONSTRUCTION OF RETICULATION SEWERS, ADDENDUM AND ASSOCIATED STRUCTURES, AS3500 AND THE SEWERAGE STANDARD DRAWINGS.

A. THE CONNECTION POINT MUST BE EXTENDED A MINIMUM OF 1.0 METRES INTO THE BOUNDARY OF A LOT.

- A FURTHER DISTANCE MAY BE REQUIRED TO CLEAR STORM WATER DRAINS. THIS DISTANCE IS 300MM OR THE THE EDGE OF THE EASEMENT. B. PROPERTY CONNECTION SIDE-LINE MUST BE LOCATED A MINIMUM OF 1.0METRES FROM A SIDE
- BOUNDARY. A SIDE-LINE MUST NOT EXCEED A MAXIMUM LENGTH OF 3.0METRES IN LENGTH UNLESS APPROVED BY MURRAY RIVER COUNCIL. C. THE SIDE-LINE MUST BE CONSTRUCTED TO ACHIEVE A MINIMUM OF 600mm HORIZONTAL CLEARANCE FROM ANY OTHER SERVICES, FOR EXAMPLE 600mm MINIMUM FROM THE NEAREST EDGE OF A STORM
- 20. BLASTING NO BLASTING IS PERMITTED.

ABN 55 050 029 635

WATER DRAIN OR PIT.

21. TESTING

ALL NEW SEWERS MUST BE PRESSURE TESTED. WHERE THE CONTRACTOR DOES NOT HAVE A QUALITY ASSURANCE SYSTEM IN PLACE, ALL PIPES MUST BE INSPECTED BY THE SUPERVISING ENGINEER.

- 23. WI N25 GRADE CONCRETE GP TYPE CEMENT MUST BE USED IN ALL CONSTRUCTION, UNLESS OTHERWISE NOTED IN MURRAY RIVER COUNCIL'S DESIGN GUIDELINE.
- 24. SEWER SETOUTS
- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF THE HORIZONTAL
- ALIGNMENT AND FOR OFFSETTING PEGS DURING CONSTRUCTION. B. SETOUT AND VERIFICATION OF LEVELS SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.
- 25. THE CONTRACTOR MUST LOCATE ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF
- 26. THE LEVEL OF ALL EXISTING OUTFALL SEWERS MUST BE CONFIRMED BY THE CONTRACTOR PRIOR TO WORKS COMMENCING.
- 27. CLASS 3 FCR BACKFILL MUST BE USED WHERE SEWER MAINS CROSS ROAD PAVEMENT,
- 28. PIPES JOINS ARE TO BE CONSTRUCTED STRICTLY TO THE MANUFACTURER'S SPECIFICATIONS -MANUALLY JOINED AND NOT USING MECHANICAL EQUIPMENT SUCH AS AN EXCAVATOR BUCKET ETC.
- 29. THE CONTRACTOR MUST ADHERE TO THE CODE OF PRACTICE FOR 'SAFETY PRECAUTIONS IN TRENCHING OPERATIONS" UNDER THE "OCCUPATIONAL HEALTH & SAFETY ACT 2004"
- 30. CAST IRON CONCRETE INFILL STYLE COVERS ARE NOT ACCEPTABLE

FOOTPATHS OR DEFINED DRIVEWAYS.

- 31. THE CONCRETE FINISH OF THE MANHOLE BENCHING AND CHANNELS HAS BEEN FINISHED WITH A METAL FLOAT. A BROOM FINISH IS NOT ACCEPTABLE.
- 32. IN ACCORDANCE WITH SECTION 22.7 (WSA 02-2002-2.3, VERSION 1.0) MURRAY RIVER COUNCIL REQUIRES SATISFACTORY EVIDENCE IN THE FORM OF CALIBRATED CCTV RECORDING OF THE ASSETS ACCOMPANIED BY A DETAILED REPORT. A HARD AND ELECTRONIC COPY IS TO BE PROVIDED TO MURRAY RIVER COUNCIL. THE GRADE OF THE PIPE IS ALSO REQUIRED TO BE SHOWN ON CCTV.
- 33. IN ACCORDANCE WITH SECTION 8.10(WSA 02-2002-2.3, MELBOURNE RETAIL WATER AGENCIES EDITION, VERSION 1.0) WHERE TRENCH STOPS OR BULKHEADS ARE REQUIRED AS PART OF THE DESIGN FOR A
- SEWER MAIN EXTENSION THEY MUST BE CLEARLY DETAILED ON THE PRELIMINARY DESIGN PLANS. 34. PRIOR TO MURRAY RIVER PRACTICAL COMPLETION INSPECTION THE FOLLOWING MUST BE
- a. ALL STRUCTURES MUST REACH PRACTICAL COMPLETION PRIOR TO THE CCTV RECORDING
- b. SILICONE SEALANT OR SIMILAR, IS NOT AN ACCEPTABLE MATERIAL TO BE USED TO FILL THE REBATE IN CAST IRON MH COVERS. FERRO PRE IS ACCEPTABLE. c. CUT PIPES MUST BE CUT AT RIGHT ANGLE TO THE PIPE, BE DE BURRED AND PREPARED PER THE
- MANUFACTURERS SPECIFICATIONS PRIOR TO ANY PIPE JOINTS BEING CONSTRUCTED d. CLEANING FLUID MUST BE VISIBLE
- e. EXCESSIVE GLUE IS NOT ACCEPTABLE SECTIONS OF PIPE WHICH HAVE BEEN DISTORTED OR DAMAGED IN ANY WAY, MUST NOT BE
- CONSTRUCTED AS PART OF THE SEWER MAINS
- SEWERS MUST BE LAID STRAIGHT AND WITH A CONSISTENT UNIFORM GRADIENT
- SEWERS AND STRUCTURES (MH'S, MS'S, TMS'S) MUST BE FREE OF ANY DEBRIS
- SURFACE AND/OR TRENCH/GROUND WATER IS NOT PERMITTED TO ENTER SEWERS ANY SIGNS OF WATER INGRESS DUE TO MATERIAL FAILURE, JOINT CONSTRUCTION FAILURE, POROUS CONCRETE, DAMAGED CONCRETE PRODUCTS OR THE USE OF SECONDS WILL NOT BE ACCEPTABLE. ALL MATERIALS MUST BE OF THE HIGHEST QUALITY AND COMPLIANT WITH THE RELEVANT AUSTRALIAN
- STANDARDS k. ALL WORKS MUST BE CONSTRUCTED AND FINISHED IN A TRADESMANSHIP LIKE MANNER.
- SUBSTANDARD WORKS WILL NOT BE ACCEPTABLE. TRENCHES MUST BE REINSTATED PER THE MINIMUM REQUIREMENT OF THE WSA CODE. TRENCH
- SUBSIDENCE IS NOT ACCEPTABLE AT ANY TIME. m. ALL SEWER GRADES ARE DESIGNED TO THE 2014 WSA CODE AND INCLUDES ALL FUTURE LOTS THAT ARE SERVICED WITHIN THIS SEWER NETWORK WHEN DETERMINING THE MINIMUM ACCEPTABLE GRADES.

ISSUED FOR TENDER J.F 12/12/24 AMENDED ROAD RESERVE BOUNDARIES & DRAINAGE PIT LOCATIONS J.F 10/10/24 В ISSUED FOR TENDER J.F 11/06/24 A ISSUED FOR APPROVAL J.F JUL 2023 Rev | Amendments Approved Date



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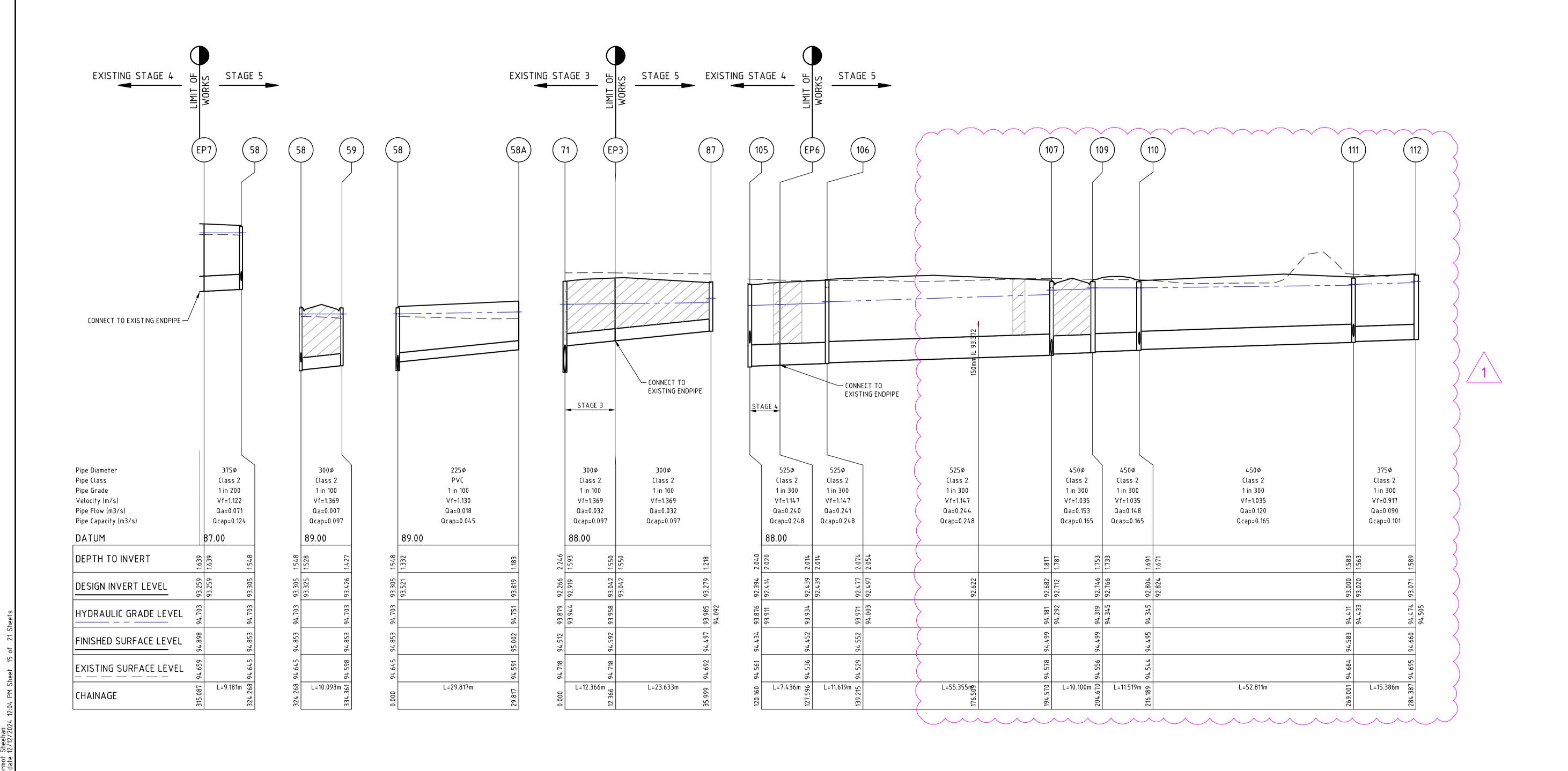
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Checked B.IBBS Date J.FEHRING OCT 2024 **MAIDENS GREEN** STAGE 5 **HYDRAULICS - NOTES & LEGEND** SHEET 1 MURRAY RIVER COUNCIL KIELY ROAD PROJECTS PTY LTD

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Designed

Authorised

D.SHEEHAN

J.FEHRING

Checked

B.IBBS

OCT 2024

Date

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Approved

12/12/24

10/10/24

11/06/24

JUL 2023

Date

ISSUED FOR TENDER

B ISSUED FOR TENDER

Rev Amendments

A ISSUED FOR APPROVAL

AMENDED ROAD RESERVE BOUNDARIES & DRAINAGE PIT LOCATIONS

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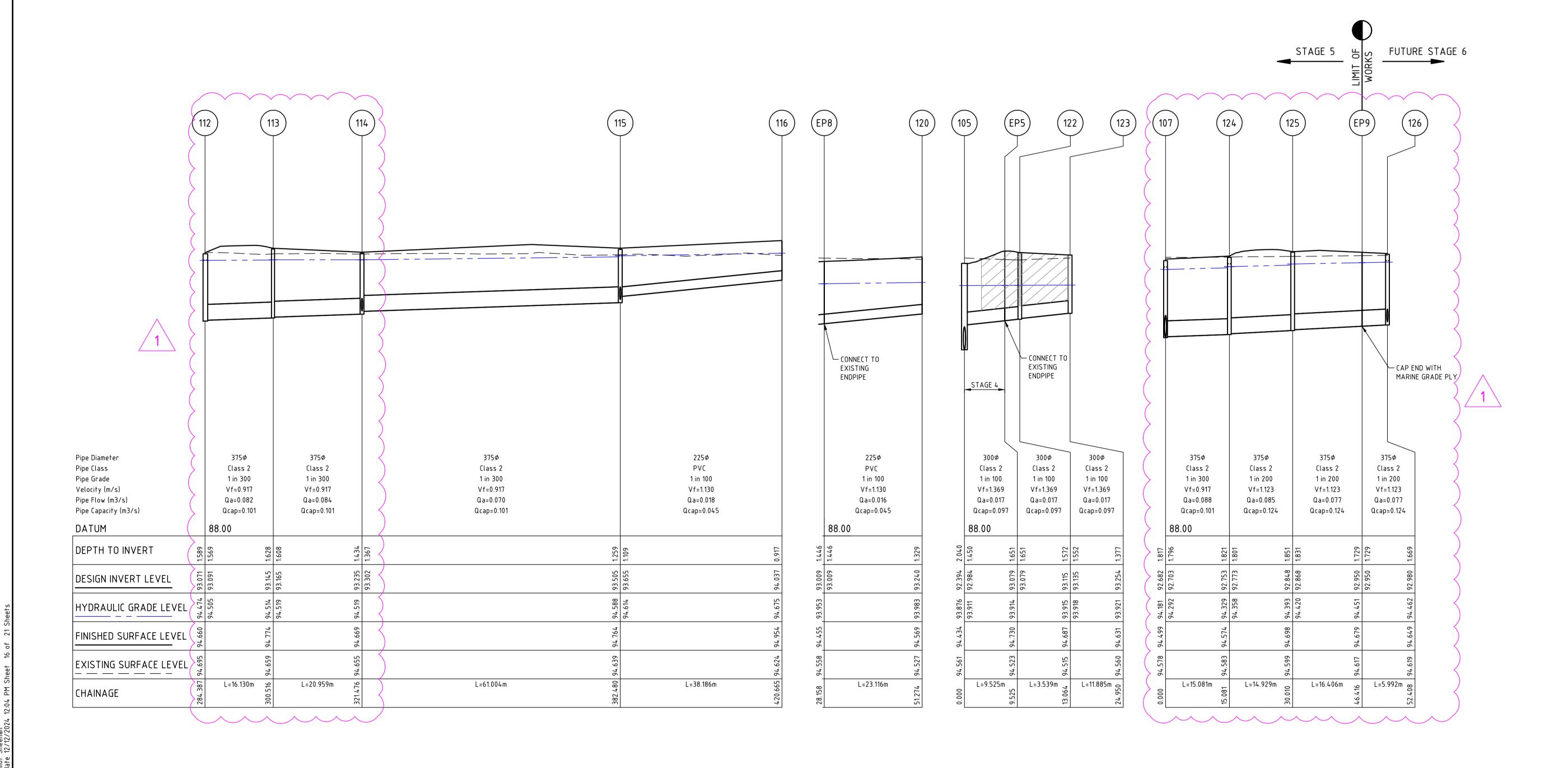
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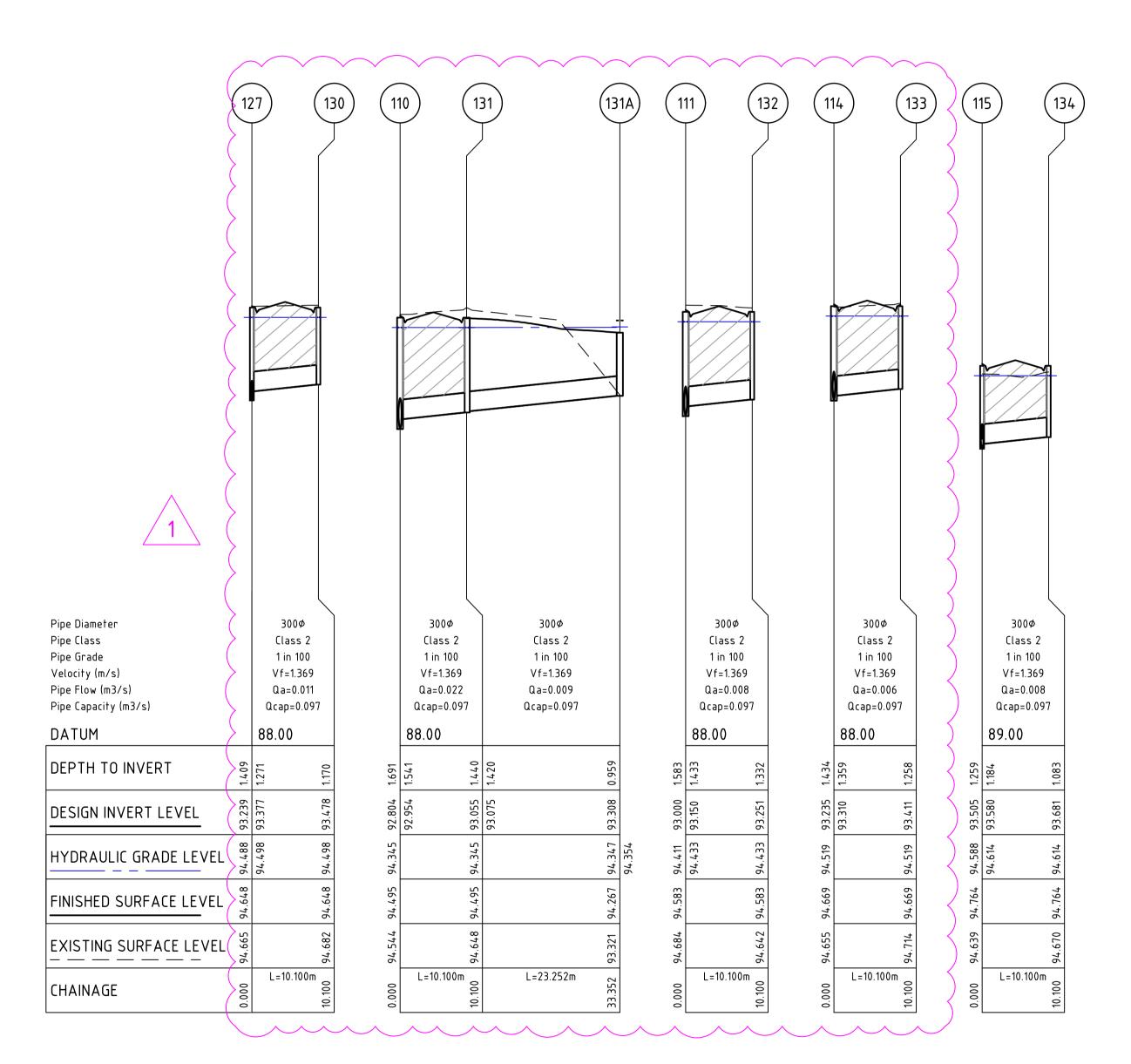
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PIT SETOUT CO-ORDINATES

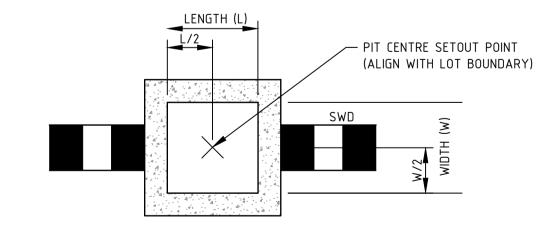
	NAME	POINT	EASTING	NORTHING			
	EP7	END OF PIPE	299325.505	6002713.839			
	EP3	END OF PIPE	299167.283	6002860.994			
	EP6	END OF PIPE	299242.764	6002850.575			
	EP8	END OF PIPE	299252.966	6002849.428			
	EP5	END OF PIPE	299235.783	6002850.782			
ς	ĚP9	END OF PIPE	299227.694	6002945.554			





DRAINAGE PIT SCHEDULE

	PIT		RNAL		NLET	(OUTLET	PIT	•	REMARKS
NAME	TYPE	WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
EP7	ENDPIPE			375	93.259	375	93.259	94.898	1.639	CONNECT TO EXISTING ENDPIPE
58	SIDE ENTRY PIT	600	900	300	93.325	375	93.305	94.853	1.548	AS PER IDM SD 440, HAUNCHED TO 900X600
				225	93.521					
59	SIDE ENTRY PIT	600	900			300	93.426	94.853	1.427	AS PER IDM SD 440
58A	ENDPIPE					225	93.819	95.002	1.183	INSPECTION OPENING AS PER IDM SD 515
EP3	ENDPIPE			300	93.042	300	93.042	94.592	1.550	CONNECT TO EXISTING ENDPIPE
87	GRATED JUNCTION PIT	600	900			300	93.279	94.497	1.218	AS PER IDM SD 420 WITH HEAVY DUTY TRAFFICABLE GRATED LID
EP6	ENDPIPE			525	92.439	525	92.439	94.452	2.014	CONNECT TO EXISTING ENDPIPE
106	SIDE ENTRY PIT	900	900	525	92.497	525	92.477	94.552	2.074	AS PER IDM SD 440, HAUNCHED TO 900X600
107	SIDE ENTRY PIT	900	900	450	92.712	525	92.682	94.499	1.817	AS PER IDM SD 440, HAUNCHED TO 900X600
				375	92.703					
109	JUNCTION PIT	900	900	450	92.766	450	92.746	94.499	1.753	AS PER IDM SD 410, HAUNCHED TO 900X600
110	SIDE ENTRY PIT	900	900	450	92.824	450	92.804	94.495	1.691	AS PER IDM SD 440, HAUNCHED TO 900X600
				300	92.954					
111	SIDE ENTRY PIT	900	900	375	93.020	450	93.000	94.583	1.583	AS PER IDM SD 440, HAUNCHED TO 900X600
				300	93.150					
112	SIDE ENTRY PIT	900	900	375	93.091	375	93.071	94.660	1.589	AS PER IDM SD 440, HAUNCHED TO 900X600
113	JUNCTION PIT	900	600	375	93.165	375	93.145	94.774	1.628	AS PER IDM SD 410
114	SIDE ENTRY PIT	900	900	375	93.302	375	93.235	94.669	1.434	AS PER IDM SD 440, HAUNCHED TO 900X600
				300	93.310					
115	SIDE ENTRY PIT	600	900	225	93.655	375	93.505	94.764	1.259	AS PER IDM SD 440
				300	93.580					
116	ENDPIPE					225	94.037	94.954	0.917	INSPECTION OPENING AS PER IDM SD 515
EP8	ENDPIPE			225	93.009	225	93.009	94.455	1.446	CONNECT TO EXISTING ENDPIPE
120	ENDPIPE					225	93.240	94.569	1.329	INSPECTION OPENING AS PER IDM SD 515
EP5	ENDPIPE			300	93.079	300	93.079	94.730	1.651	CONNECT TO EXISTING ENDPIPE
122	JUNCTION PIT	600	900	300	93.135	300	93.115	94.687	1.572	AS PER IDM SD 410 WITH HEAVY DUTY TRAFFICABLE LID
123	GRATED JUNCTION PIT	600	900			300	93.254	94.631	1.377	AS PER IDM SD 420 WITH HEAVY DUTY TRAFFICABLE GRATED LID
124	SIDE ENTRY PIT	600	900	375	92.773	375	92.753	94.574	1.821	AŠ PER IDM SĎ 440
125	JUNCTION PIT	600	900	375	92.868	375	92.848	94.698	1.851	AS PER IDM SD 410
EP9	ENDPIPE			375	92.950	375	92.950	94.679	1.729	CAP END WITH MARINE GRADE PLY
131	SIDE ENTRY PIT	600	900	300	93.075	300	93.055	94.495	1.440	AS PER IDM SD 440
131A	DEPRESSED GRATED PIT	600	900			300	93.308	94.267	0.959	AS PER IDM SD 455
132	SIDE ENTRY PIT	600	900			300	93.251	94.583	1.332	AS PER IDM SD 440
133	SIDE ENTRY PIT	600	900			300	93.411	94.669	1,258	AS PER IDM SD 440
134	SIDE ENTRY PIT	600	900	<i>ـــِ</i> مــِـم	~~~~~	300	93.681	94.764	1.083	AS PER IDM SD 440



TYPICAL DRAINAGE PIT SETOUT POINT 'C' JUNCTION PIT/ EASEMENT PIT

NOT TO SCALE

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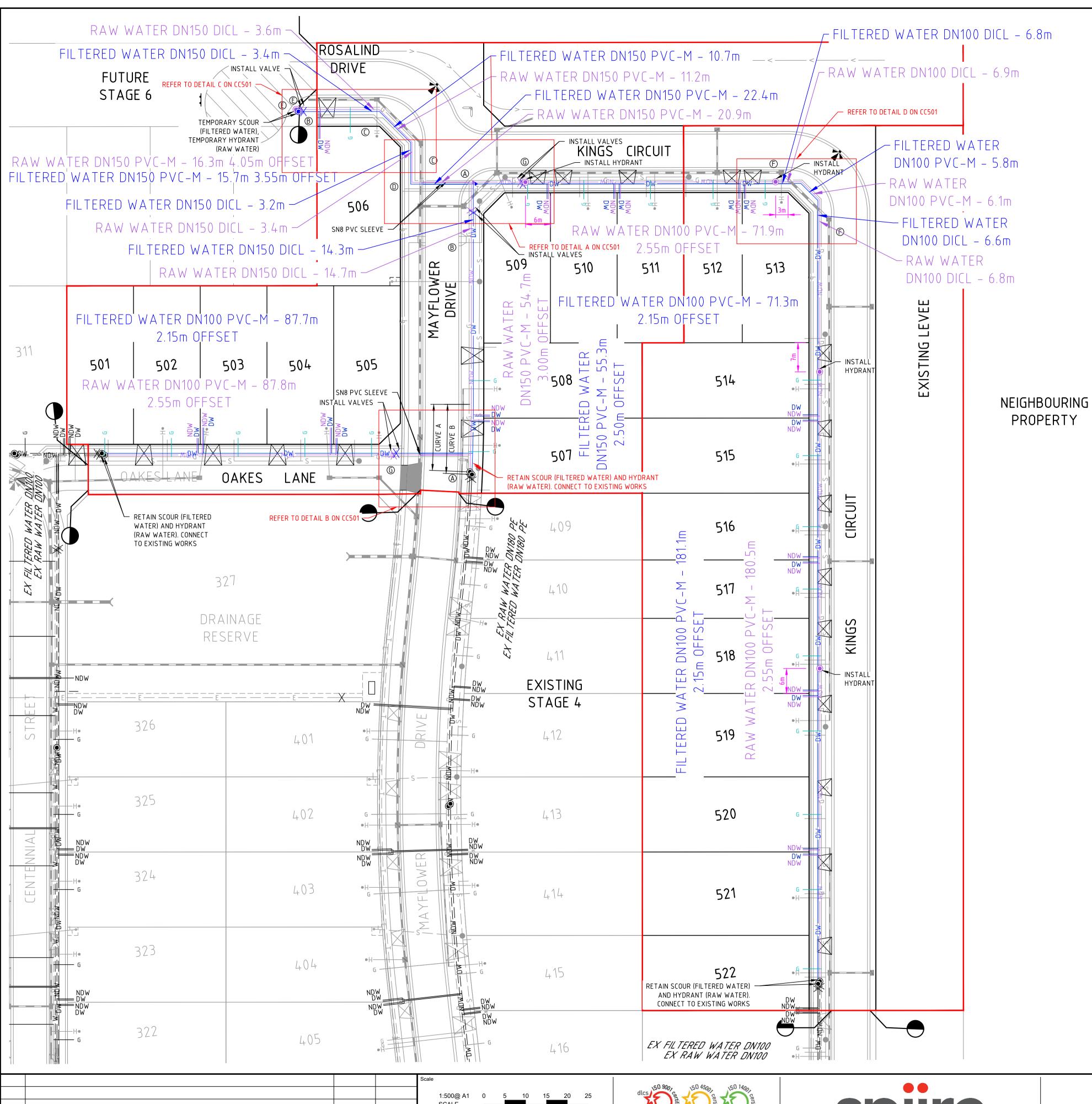
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ABN 55 050 029 635

Designed	Checked
D.SHEEHAN	B.IBBS
Authorised	Date
J.FEHRING	OCT 2024

MAIDENS GREEN STAGE 5 HYDRAULICS - DRAINAGE PROFILES SHEET 3 OF 3 MURRAY RIVER COUNCIL KIELY ROAD PROJECTS PTY LTD



	FILTERED WATER	RAW WATER
MAXIMUM DESIGN HEAD(m)	46m	49m
ZONE	RESIDENTIAL	RESIDENTIAL
TEST PRESSURE (kPa)	1000kPa	1000kPa



TABLE 1: NEW PIPE SCHEDULE

	NEW WORK	FILTERED WATER	RAW WATER	
SIZE (mm)	TYPE	CLASS	LENGTH (m)	LENGTH (m)
150	PVC-M AS/NZS 4441	SERIES 1 PN12	104.1	103.1
150	DICL AS/NZS 2280	PN35	20.9	21.7
100	PVC-M AS/NZS 4441	SERIES 1 PN12	345.9	346.3
100	DICL AS/NZS 2280	PN35	14.0	13.7

TABLE 2: PIPE MATERIAL SCHEDULE

MATERIAL	REFERENCE
PVC-M	WSA-PS-209
DICL	WSA-PS-202
PE (PROPERTY SERVICE)	WSA-PS-215

TABLE 3: HYDRANT & WASHOUT SCHEDULE

MAIN SIZE	FITTING TYPE	LOCATION	STREET	LOCATION
150	SCOUR – FW	END OF LINE	ROSALIND DRIVE	4.4m W OF WBL LOT 506
150	HYDRANT - RW	END OF LINE	ROSALIND DRIVE	5.0m W OF WBL LOT 506
100	HYDRANT - RW	IN LINE	KINGS CIRCUIT	6.0m W OF EBL LOT 509
100	HYDRANT - RW	IN LINE	KINGS CIRCUIT	3.0m W OF SPLAY LOT 513
100	HYDRANT - RW	IN LINE	KINGS CIRCUIT	7.0m S OF NBL LOT 514
100	HYDRANT - RW	IN LINE	KINGS CIRCUIT	6.0m N OF SBL LOT 518

TABLE 4: CURVED PIPE AND DEFLECTION SCHEDULE

LOCATION	METHOD	RADIUS (m)	TOTAL PIPE LENGTH
CURVE A	PVC SOC DEFLECTION	407.00	16.2
CURVE B	PVC SOC DEFLECTION	407.50	16.8

TABLE 5: SERVICE ALIGNMENT SCHEDULE (SEE DRG NO. 310338CC001 SERVICE OFFSET TABLE)

TABLE 6: THRUST RESTRAINT SCHEDULE

TABLE OF THROOF REGINARY OCHEBOLE						
LOCATION	TYPE	THRUST	AHBP (kPa) USED	THRUST AREA (m²)	QUANTITY	
Α	INLINE	2 X DN150 TEE	50	0.96	2	
В	INLINE	2 X DN150 VALVE	50	0.96	2	
С	INLINE	2 X DN150 45° BEND	50	0.74	2	
D	PLAIN	2 X DN150 90° BEND	50	1.36	1	
E	PLAIN	DN150 END	50	0.48	2	
F	INLINE	2 X DN100 45° BEND	50	0.36	2	
G	INLINE	2 X DN100 VALVE	50	0.60	2	

TABLE 7: VERTICAL CLEARANCES

Checked

Date

B.IBBS

OCT 2024

EXISTING OR PROPOSED	MINIMUM VERTICAL
SERVICE	CLEARANCE (mm)
WATER MAINS ≤ DN375	150
WATER MAINS > DN375	300
GAS MAINS	150
TELECO CONDUITS AND CABLES	150
ELECTRICITY CONDUITS AND CABLES	225
STORMWATER DRAIN & PITS	150
SEWERS - GRAVITY	500
SEWERS - PRESSURE & VACUUM	500

THRUST RESTRAINT - SEE TABLE 6 FOR DETAILS G — GAS CONDUIT NDW SERVICE CONDUIT X X X VALVE HYDRANT. BELOW GROUND. TAPER REMOVE FITTING ---- NDW ---- RAW WATER MAIN —— DW —— FILTERED WATER MAIN ---- W ---- IRRIGATION WATER MAIN — DW — EXISTING WATER MAIN

FOR ADDITIONAL SYMBOLS NOT INCLUDED HERE

LEGEND

- VERTICAL CLEARANCE BETWEEN WATER MAINS SHALL DEPEND ON THE LARGER MAIN DIAMETER.
- WATER MAINS SHALL CROSS OVER SEWERS AND DRAINS UNLESS SHOWN OTHERWISE.
- REFER TO MRWA-W-100

- MAINTAIN ADDITIONAL CLEARANCE FROM HIGH VOLTAGE ELECTRICAL CABLES TO ALLOW FOR A PROTECTIVE BARRIER AND MARKING.

ISSUED FOR TENDER 12/12/24 AMENDED ROAD RESERVE BOUNDARIES & DRAINAGE PIT LOCATIONS 10/10/24 J.F 11/06/24 ISSUED FOR TENDER A ISSUED FOR APPROVAL J.F JUL 2023 Approved Rev | Amendments



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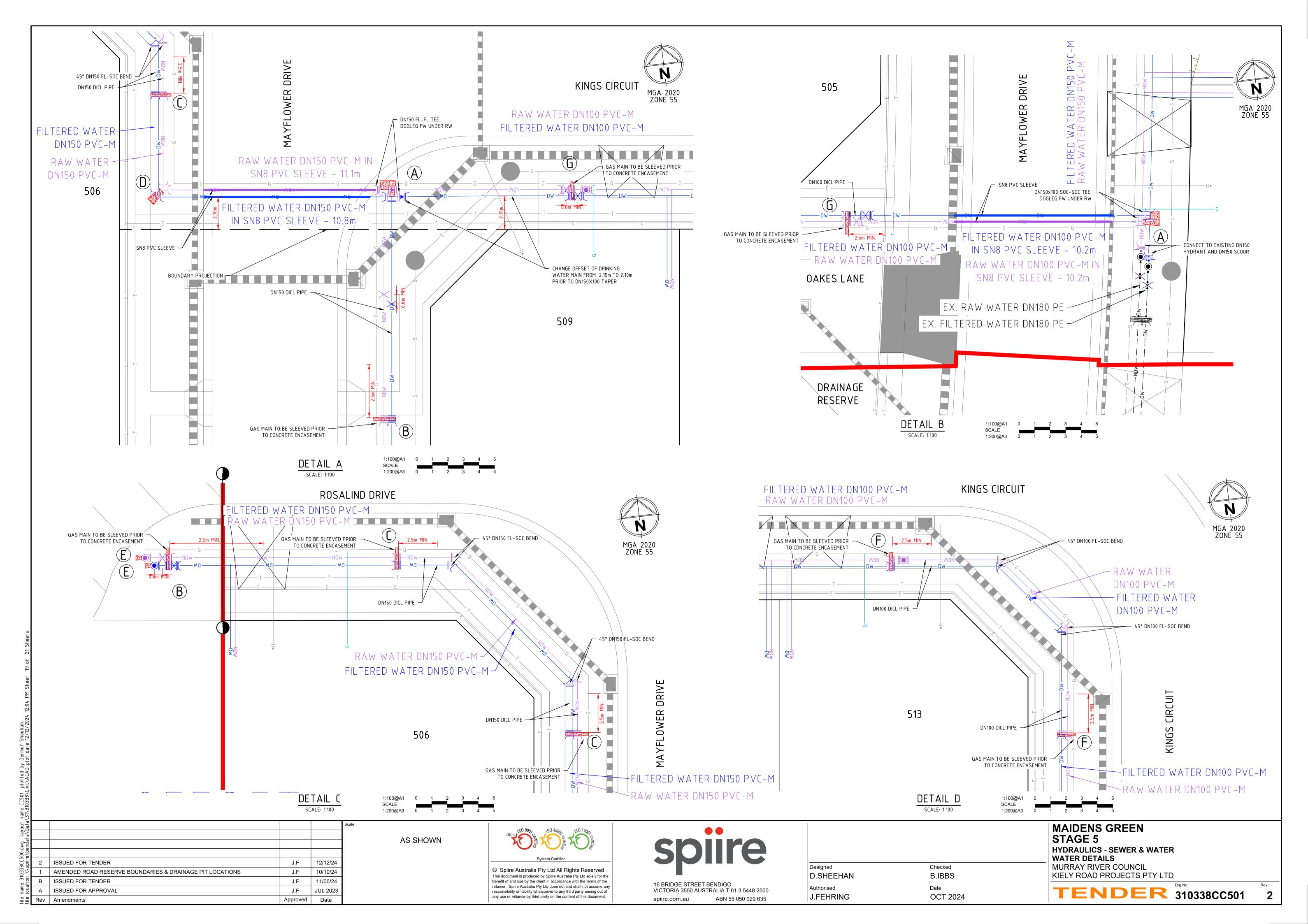
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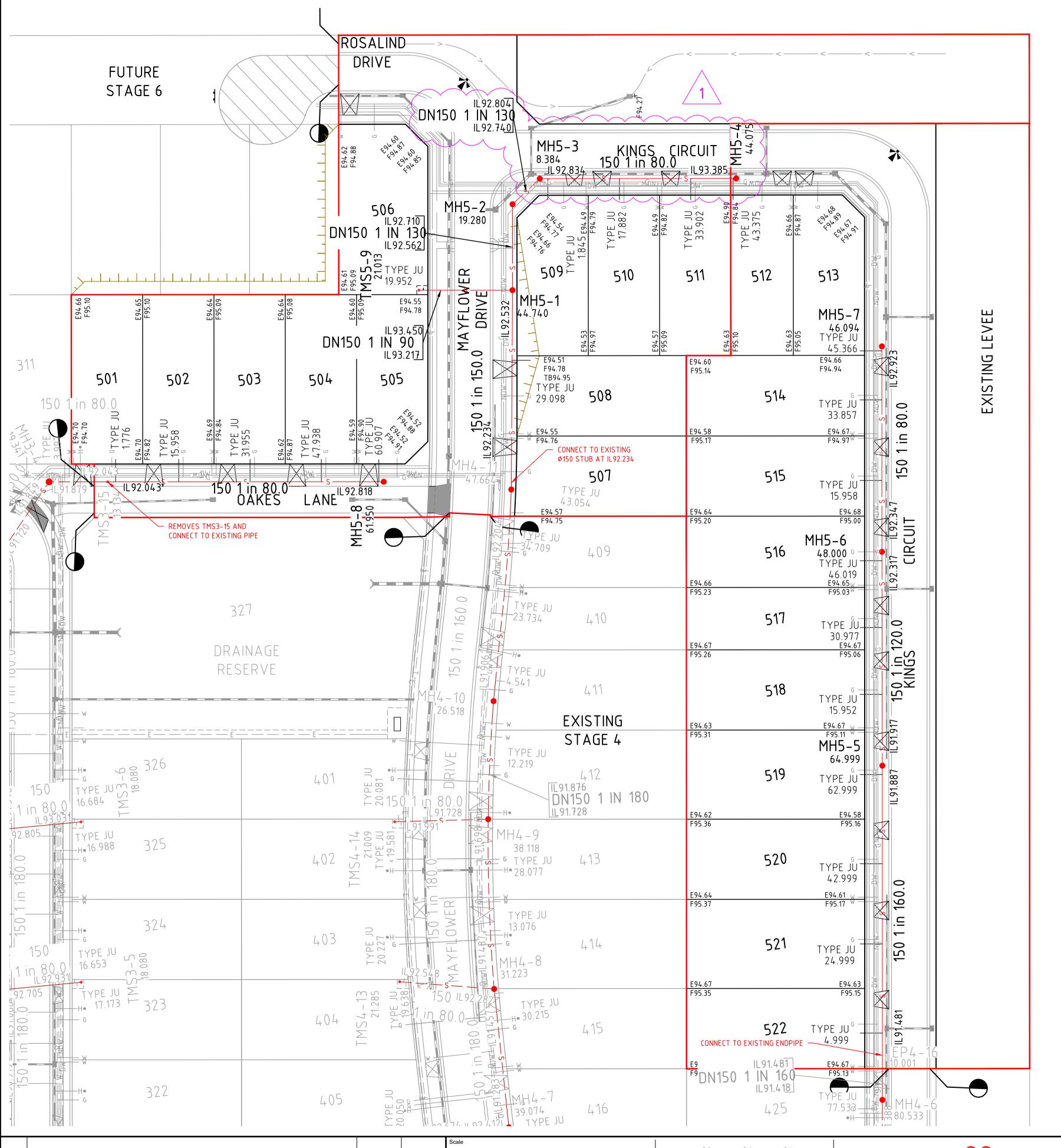
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MAIDENS GREEN STAGE 5 **HYDRAULICS - SEWER & WATER** WATER LAYOUT PLAN MURRAY RIVER COUNCIL KIELY ROAD PROJECTS PTY LTD

TENDER 310338CC500







NEIGHBOURING PROPERTY

SEWER STRUCTURE SETOUT TABLE

PIT	COORDINATES						
NAME	EASTING	NORTHING					
EP4-16	299324.978	6002716.924					
MH5-5	299332.764	6002781.455					
MH5-6	299338.438	6002829.118					
MH5-7	299343.959	6002874.881					
TMS3-15	299167.833	6002865.552					
MH5-8	299229.338	6002858.139					
MH4-11	299257.552	6002852.978					
MH5-1	299263.196	6002897.361					
MH5-2	299265.505	6002916.502					
MH5-3	299272.267	6002921.458					
MH5-4	299316.032	6002916.230					
TMS5-9	299242.347	6002899.880					



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	1	AMENDED ROAD RESERVE BOUNDARIES & DRAINAGE PIT LOCATIONS	J.F	10/10/24								
	В	ISSUED FOR TENDER	J.F	11/06/24								
	Α	ISSUED FOR APPROVAL	J.F	JUL 2023								
file file	Rev	Amendments	Approved	Date								



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Designed Checked
D.SHEEHAN B.IBBS
Authorised Date
J.FEHRING OCT 2024

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STAGE 5
HYDRAULICS - SEWER & WATER
SEWER LAYOUT PLAN
MURRAY RIVER COUNCIL
KIELY ROAD PROJECTS PTY LTD



