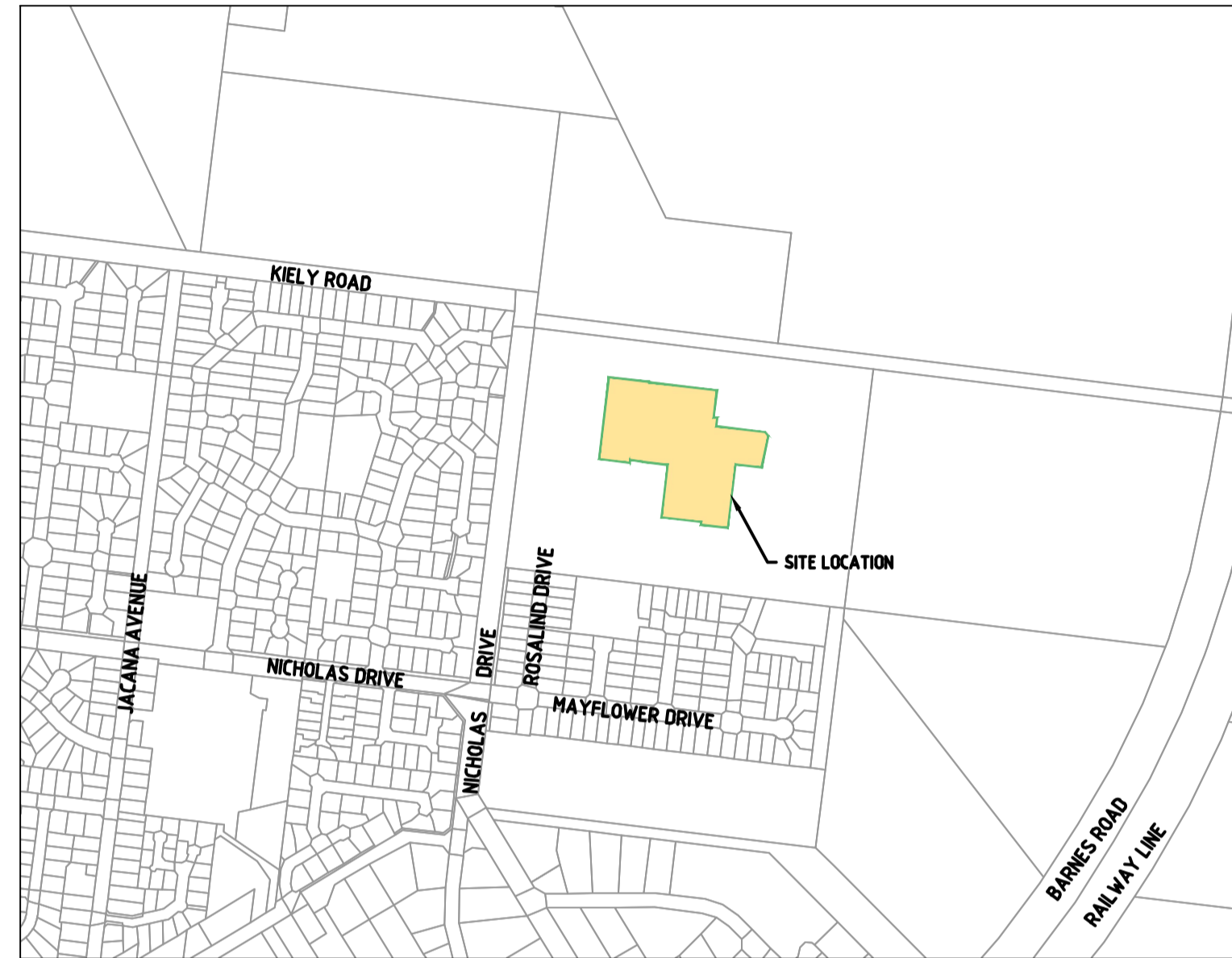


MAIDENS GREEN STAGE 3 CONSTRUCTION CERTIFICATE KIELY ROAD PROJECTS PTY LTD

GENERAL NOTES

A. GENERAL

- ALL WORK TO BE CARRIED OUT TO MURRAY RIVER COUNCIL SPECIFICATIONS, STANDARD DRAWINGS AND TO THE SATISFACTION OF COUNCIL'S SENIOR SURVEILLANCE OFFICER OR HIS REPRESENTATIVE.
 - ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) ZONE 55.
 - 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.
 - 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.
 - 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.
 - 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.
 - POSITION CONDUITS SO THAT A MINIMUM DISTANCE BETWEEN TAPPING IS 10M. CONDUITS TO BE LOCATED MIDWAY BETWEEN FENCE LINE OF LOT, UNLESS OTHERWISE SHOWN.
 - 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.
 - COUNCIL'S REPRESENTATIVE IS TO BE NOTIFIED IN WRITING 72 HOURS PRIOR TO THE COMMENCEMENT OF WORKS.
 - NO EXCAVATION WITHIN 5M OF ANY EXISTING TREE WITHOUT APPROVAL OF THE ENGINEER.
 - NO BLASTING IS PERMITTED WITHOUT OBTAINING COUNCIL'S SPECIAL DISPENSATION.
 - EXCAVATED MATERIAL SURPLUS TO FILLING REQUIREMENTS OF THE WORKS SHALL BE REMOVED FROM SITE AS SPECIFIED.
 - 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.
 - NATURESTRIPS AND ALL AREAS OF CUT OUTSIDE ROAD RESERVE TO BE SURFACED WITH 100MM MINIMUM COMPACTED LAYER OF TOPSOIL.
 - 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.
 - ENVIRONMENTAL REQUIREMENTS - ALL TREES MUST BE PRESERVED AND PROTECTED AT ALL TIMES. TREES MARKED X ON THE DESIGN PLANS MAY BE REMOVED.
- B. ROAD WORKS**
- FOOTPATHS ARE TO BE 15M WIDE UNLESS SHOWN OTHERWISE. FOOTPATHS TO BE CONSTRUCTED TO THE MURRAY RIVER COUNCIL'S STANDARDS.
 - CONSTRUCT LAYBACK SECTION AT VEHICLE CROSSING, REVERSING BAYS AND CAR PARKING BAYS AND PRAM CROSSING TO MURRAY RIVER COUNCIL'S STANDARDS.
 - ALL CHAINAGES REFER TO ROAD PAVEMENT CENTRELINES EXCEPT IN COURT HEADS AND INTERSECTIONS WHERE CHAINAGES REFER TO BACK OF KERB.
 - THE CONTRACTOR IS REQUIRED TO CONFINE CONSTRUCTION VEHICLES TO THE ROAD RESERVE AND EASEMENTS. ANY DAMAGE CAUSED TO ALLOTMENTS MUST BE MADE GOOD.
 - ALL BATTERS SHALL BE TO MURRAY RIVER COUNCIL STANDARDS.
 - CUT 1 IN 12 UNLESS OTHERWISE SHOWN.
 - FILL 1 IN 12 UNLESS OTHERWISE SHOWN.
 - ALL SET OUT INFORMATION GIVEN IS TO LIP OF KERB UNLESS OTHERWISE SHOWN.
 - 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.
 - 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.
 - 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.
 - CONCRETE TO HAVE 28DAY STRENGTH OF 25MPA UNLESS NOTED OTHERWISE.
 - 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.
 - PAVEMENT TESTING IS TO BE COMPLETED IN ACCORDANCE WITH MURRAY RIVER COUNCIL 'ENGINEERING GUIDELINES FOR SUBDIVISIONS FOR SUBDIVISIONS AND DEVELOPMENT STANDARDS'.
 - THE PRE-APPROVED PREFERRED DRIVEWAY LOCATIONS SHOWN ON DRG NO. "309095CC030" ARE TO BE CONSTRUCTED BY EACH LANDOWNER AT A LATER DATE.

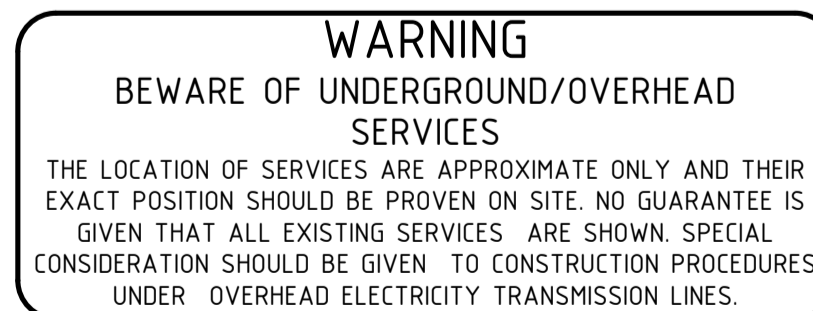


LOCALITY PLAN
NOT TO SCALE



LEGEND

DESCRIPTION	EXISTING	PROPOSED
FILTERED WATER MAIN, VALVE AND HYDRANT	DW	DW
RAW WATER	NDW	NDW
IRRIGATION WATER	W	W
UNDERGROUND ELECTRICITY	E	E
OVERHEAD ELECTRICITY & POLE	OE	OE
TELECOMMUNICATIONS & SERVICE PIT	T	T
GAS MAIN	G	G
SEWER & MANHOLE	S	S
SEWER RISING MAIN	SRM	SRM
COUNCIL STORMWATER DRAIN & PIT		
COUNCIL STORMWATER PITS		
STORMWATER DRAINAGE PIT NUMBER	1	1
GAS & WATER CONDUITS		
CONCRETE VEHICLE CROSSING		
SURFACE CONTOUR MINOR	168.90	168.90
SURFACE CONTOUR MAJOR	169.00	169.00
SURFACE LEVEL	E123.45	F124.68
BATTER LEVEL (TOP / TOE)	T124.80	T124.80
EARTHWORKS GRADE		1 in 150
SIGN AND POST		
LIGHT & POLE (BY OTHERS)		
STREET SIGN		
PERMANENT SURVEY MARK		
TEMPORARY BENCH MARK		
BOLLARD		
ROAD CHAINAGES	CH116.57 (L/R)TP CH116.57	CH116.57 (L/R)TP CH116.57
LOT CHAINAGE	CH20.06	CH20.06
SETOUT POINT		A2
LIMIT OF WORKS		
EARTHWORK - FILL GREATER THAN 200mm		
EARTHWORK - CUT GREATER THAN 200mm		
BATTER		
ROCK BEACHING		
FENCE - TREE PROTECTION		
FENCE - VEHICLE EXCLUSION		
FENCES		
TREE (& SURVEYED CANOPY) TO BE RETAINED		
TREE TO BE REMOVED		
VEGETATION LINE		



SERVICE LOCATION TABLE

ROAD NAME	FILTERED WATER		RAW WATER		IRRIGATION WATER		GAS		NBN (TELECOM)		ELECTRICITY			
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE		U/G CABLE	
PRINCES WAY	W	2.15	W	2.55	-	-	W	2.95	E	1.0	E	1.0x	E	0.40
CENTENNIAL STREET (NORTH-SOUTH) (LOT 322-326)	E	2.12	E	2.52	E	2.92	E	3.30	W	1.0	W	1.0x	W	0.40
CENTENNIAL STREET (NORTH-SOUTH)	E	2.15	E	2.55	-	-	E	2.95	W	1.0	W	1.0x	W	0.40
CENTENNIAL STREET (EAST-WEST)	N	2.15	N	2.55	-	-	N	2.95	S	1.0	S	1.0x	S	0.40
OAKES LANE	N	2.15	N	2.55	-	-	N	2.95	N	1.0	N	1.0x	N	0.40

- 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.
- x = OFFSET FROM BACK OF KERB

file name: 309402CC001.dwg, layout name: CC001, plotted by: Doreen Stueben, file location: \\spire\bandra\data\309402\309402.dwg, acad plot, date: 11/08/2022, 2:04 PM, Sheet 1 of 22 Sheets

Rev	Description	Approved	Date
B	AMENDED AS PER COUNCIL COMMENTS	J.F	09/08/22
A	ISSUED FOR APPROVAL	J.F	21/06/22
Rev	Amendments	Approved	Date



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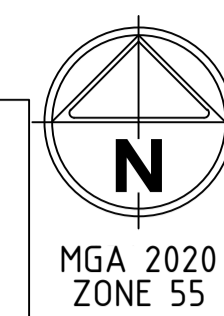
16 BRIDGE STREET BENDIGO
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spiire.com.au ABN 55 050 029 635

Designed
D.SHEEHAN
Authorised
J.FEHRING

Checked
B.IBBS
Date
JUN 2022

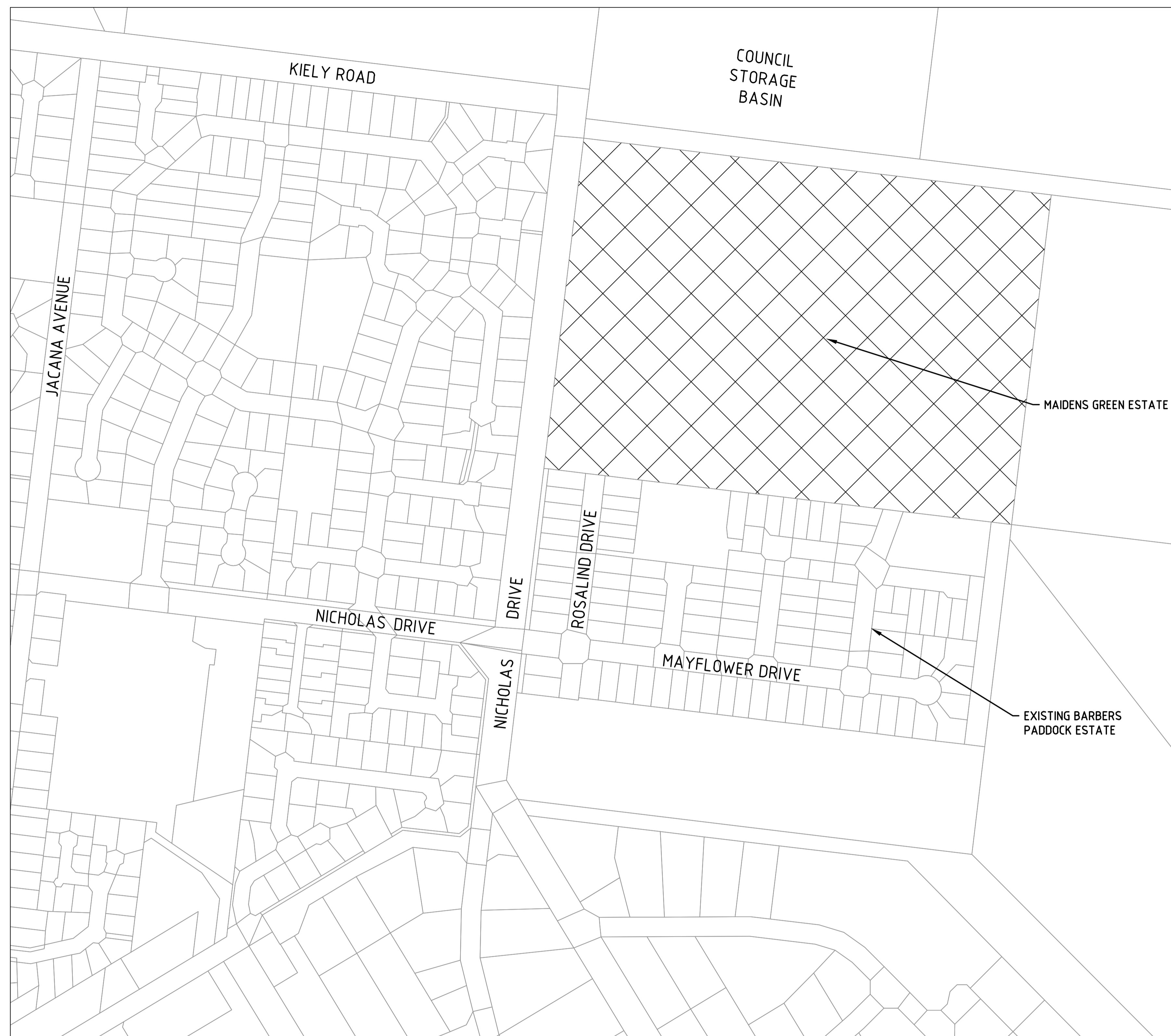
MAIDENS GREEN
STAGE 3
COVER SHEET
SHEET 1
MURRAY RIVER COUNCIL
KIELY ROAD PROJECTS PTY LTD

PRELIMINARY Drp No **309402CC001** Rev **B**



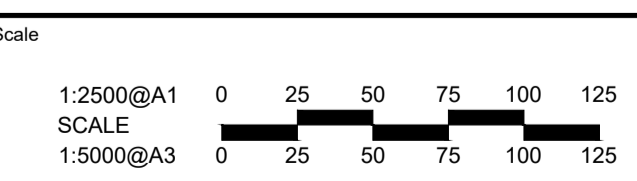
DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
CC001	COVER SHEET - FACESHEET	1	B
CC002	DRAWING SCHEDULE	2	B
CC005	GENERAL ARRANGEMENT PLAN - TYPICAL DETAILS AND SECTIONS	3	B
CC025	STAGING PLAN	4	B
CC030	ROAD LAYOUT PLAN	5	B
CC031	ROAD LAYOUT PLAN - DRAINAGE BASIN DETAILS	6	B
CC031	ROAD LAYOUT PLAN - CONCRETE JOINTING PLAN	7	A
CC100	ROAD LONGITUDINAL SECTIONS - PRINCES WAY & CENTENNIAL STREET	8	B
CC101	ROAD LONGITUDINAL SECTIONS - OAKES LANE	9	B
CC140	ROAD CROSS SECTIONS - PRINCES WAY	10	B
CC141	ROAD CROSS SECTIONS - CENTENNIAL STREET - SHEET 1 OF 2	11	B
CC142	ROAD CROSS SECTIONS - CENTENNIAL STREET - SHEET 2 OF 2	12	B
CC143	ROAD CROSS SECTIONS - OAKES LANE	13	B
CC270	INTERSECTION DETAILS - PRINCES WAY-CENTENNIAL STREET & CENTENNIAL STREET- OAKES LANE	14	B
CC400	HYDRAULICS - NOTES & LEGEND - DRAINAGE, SEWER & WATER NOTES	15	B
CC430	HYDRAULICS - DRAINAGE PROFILES - DRAINAGE LONGITUDINAL SECTIONS	16	B
CC431	HYDRAULICS - DRAINAGE PROFILES - DRAINAGE LONGITUDINAL SECTIONS	17	B
CC432	HYDRAULICS - DRAINAGE PROFILES - DRAINAGE LONGITUDINAL SECTIONS	18	B
CC500	HYDRAULICS - SEWER & WATER - WATER LAYOUT PLAN	19	B
CC501	HYDRAULICS - SEWER & WATER - WATER DETAILS	20	B
CC502	HYDRAULICS - SEWER & WATER - SEWER LAYOUT PLAN	21	B
CC530	HYDRAULICS - SEWER PROFILES	22	B



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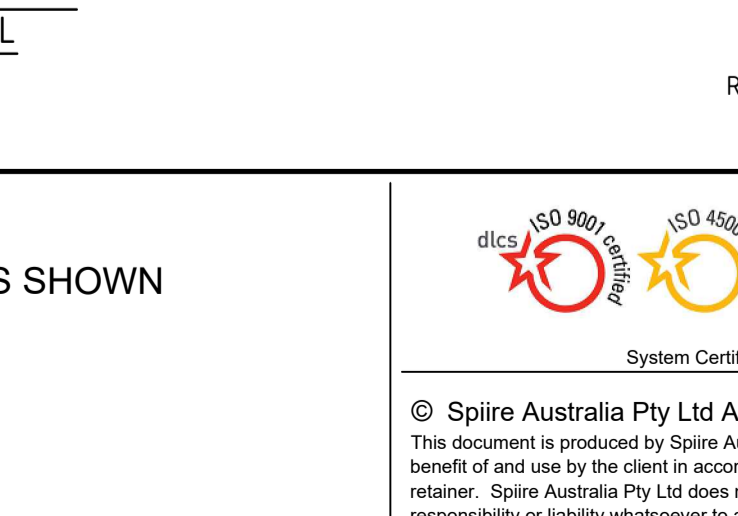
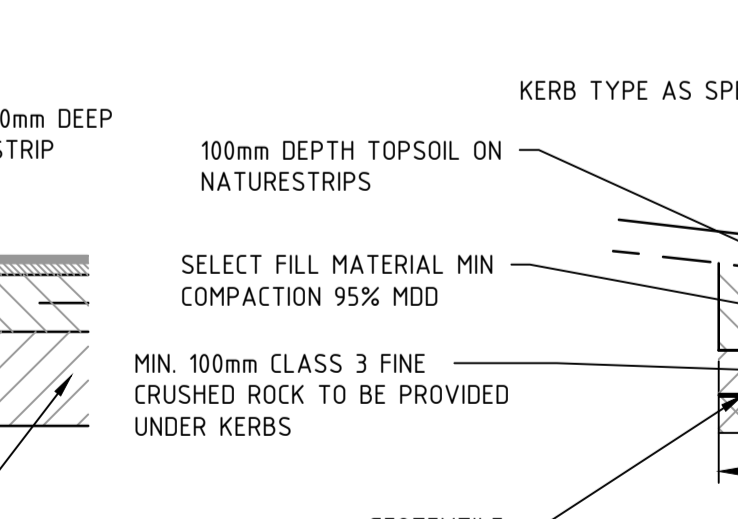
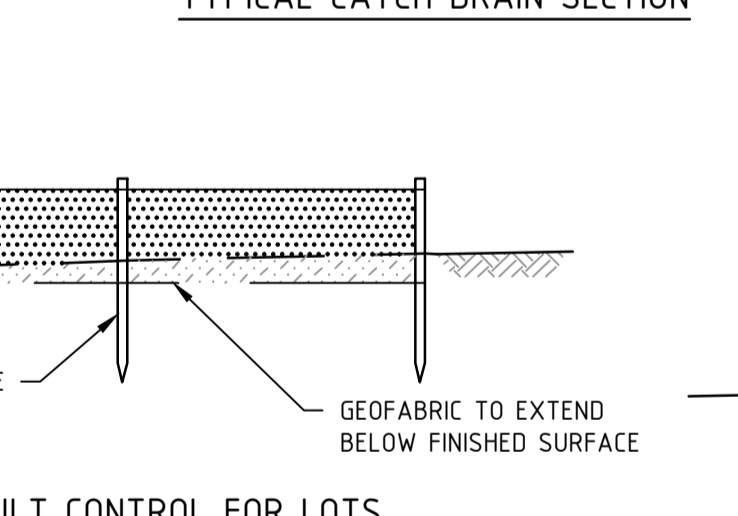
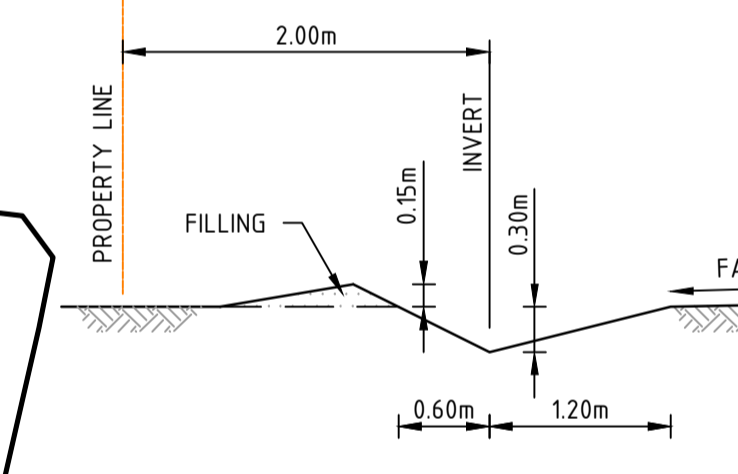
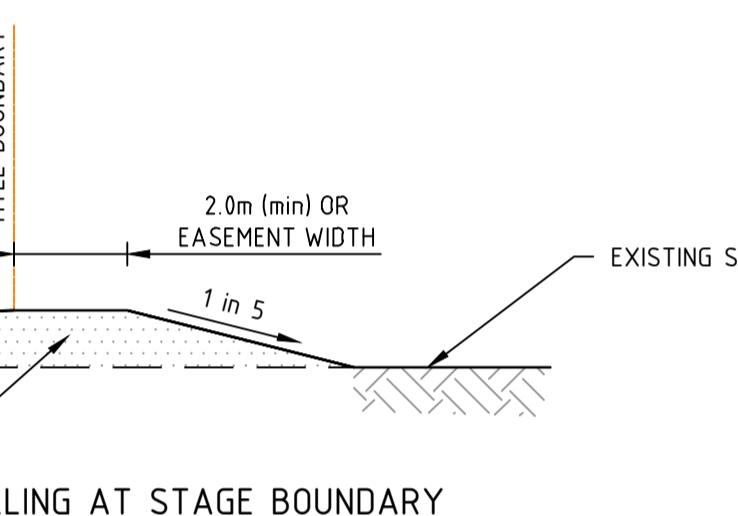
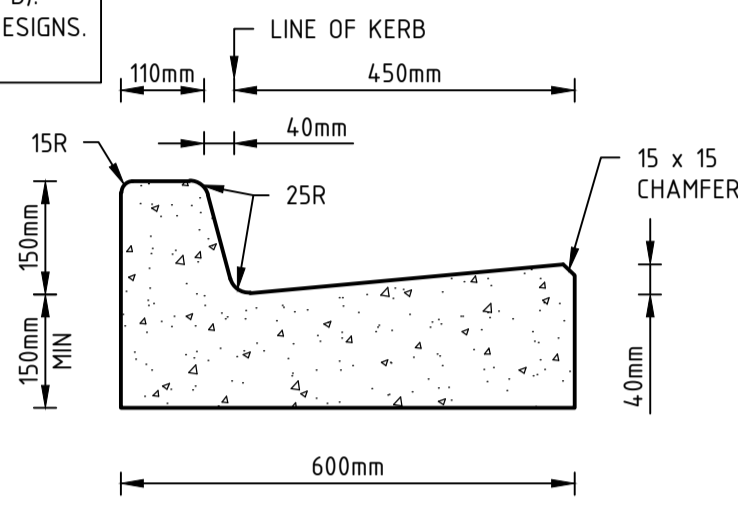
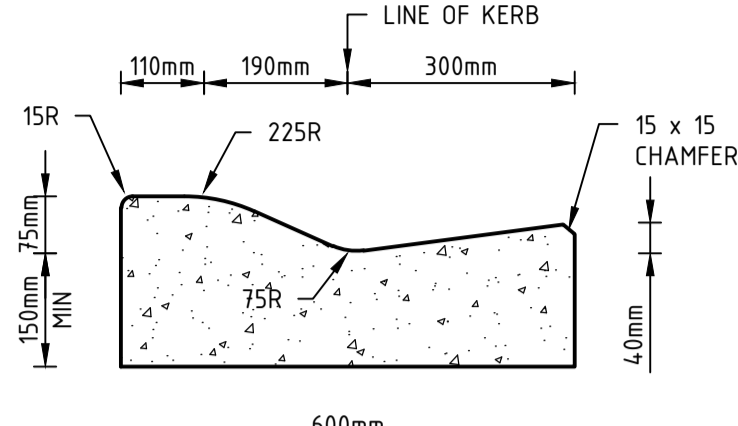
**MAIDENS GREEN
STAGE 3
DRAWING SCHEDULE
SHEET 1**
MURRAY RIVER COUNCIL
KIELY ROAD PROJECTS PTY LTD

PRELIMINARY Drg No **309402CC002** Rev **B**

DESIGN PAVEMENT PROFILE

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)	
		TYPE A	TYPE B
WEARING COURSE	SIZE 10 TYPE N ASPHALT, WITH PRIME	40	-
BASE COURSE	CLASS 1 20mm FCR, COMPACTED TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY (MMD)	160	-
CONCRETE	32 MPa CONCRETE WITH SL82 MESH	-	160
SUBBASE COURSE	CLASS 3 20mm FCR, COMPACTED TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY (MMD)	140	100
GEOFABRIC	A14 BIDIM NONWOVEN GEOTEXTILE (EXTEND 300mm BEHIND BACK OF KERB)	-	-
SUBGRADE	3% LIME, 1% CEMENT STABILISATION OF EXISTING MATERIAL, COMPACTED TO 98% STANDARD COMPACTION	200	-
TOTAL PAVEMENT DEPTH		540	260

ROAD NAME	TYPE
PRINCES WAY	A
CENTENNIAL STREET	A
OAKES LANE	B

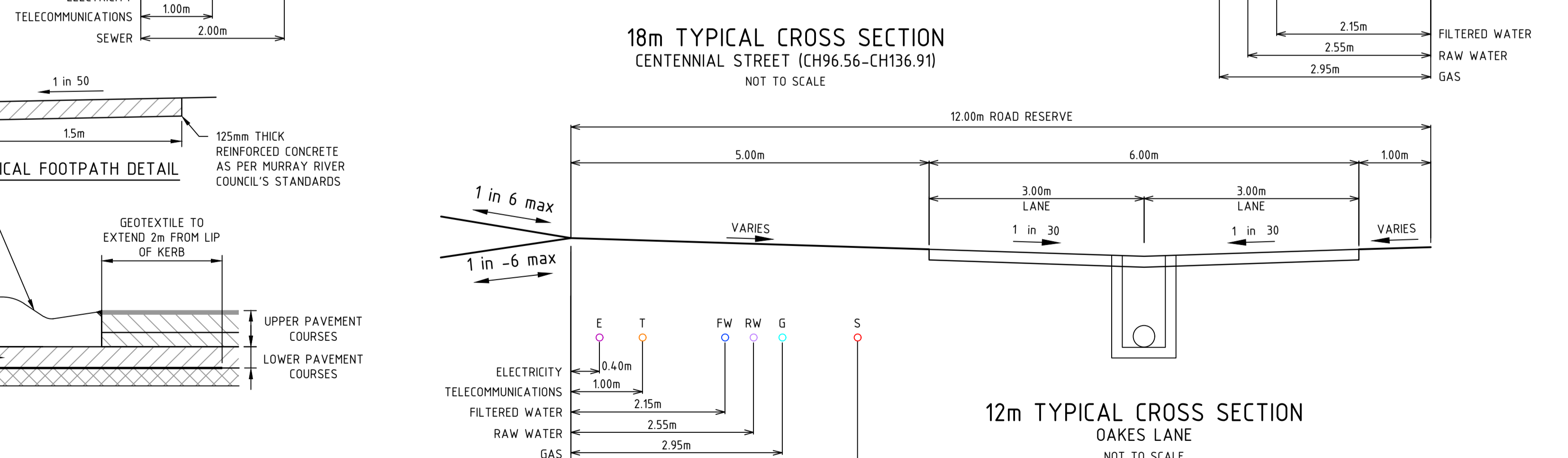
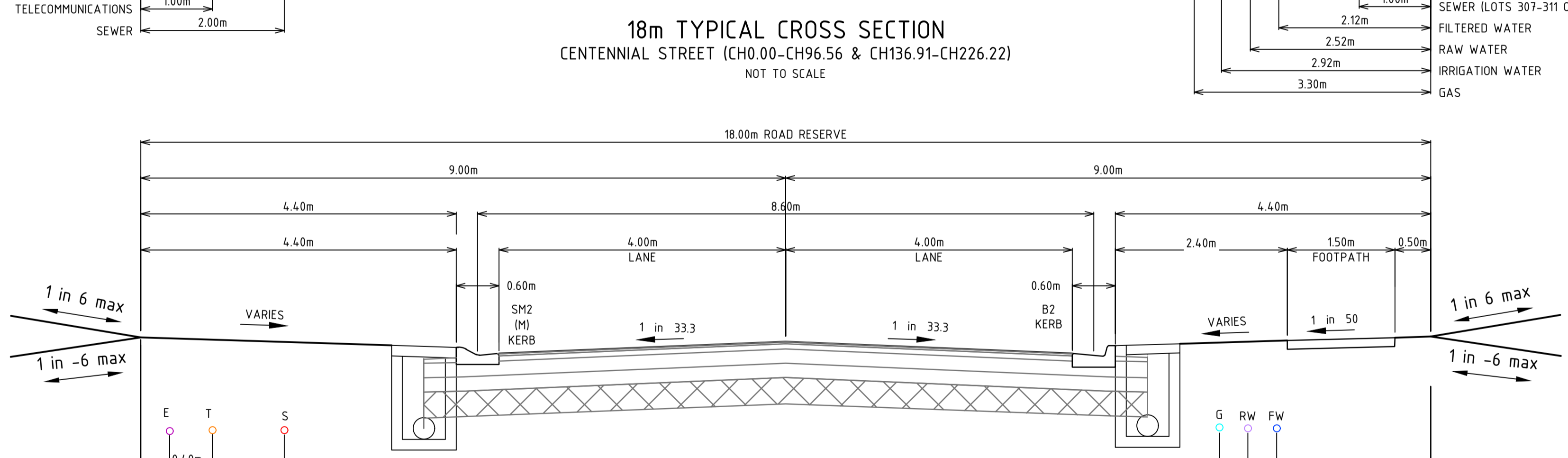
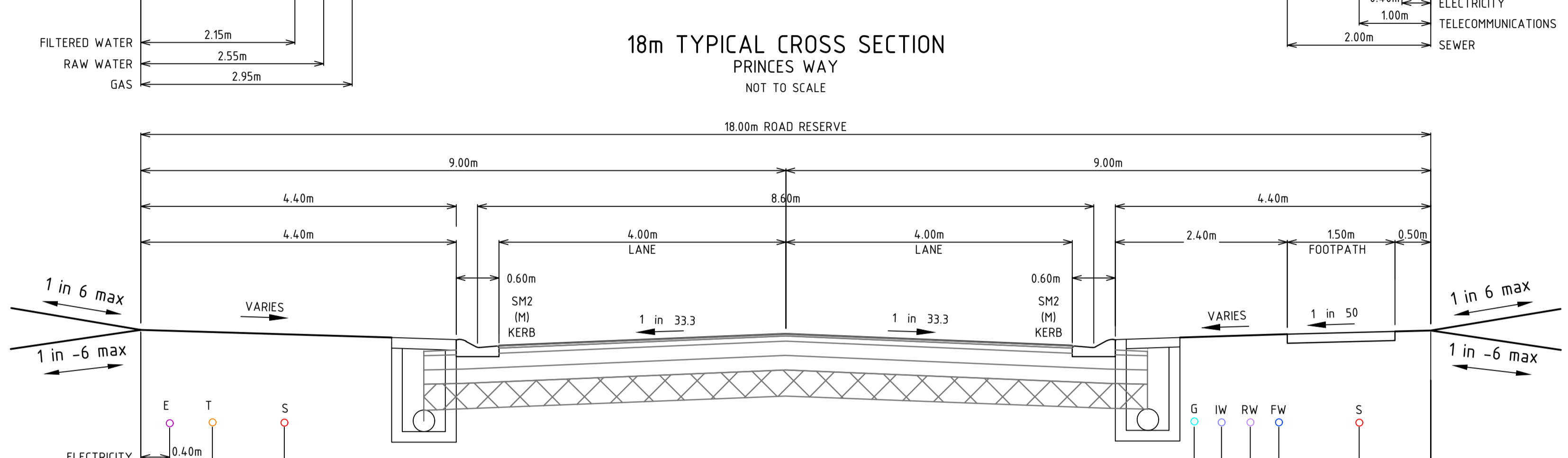
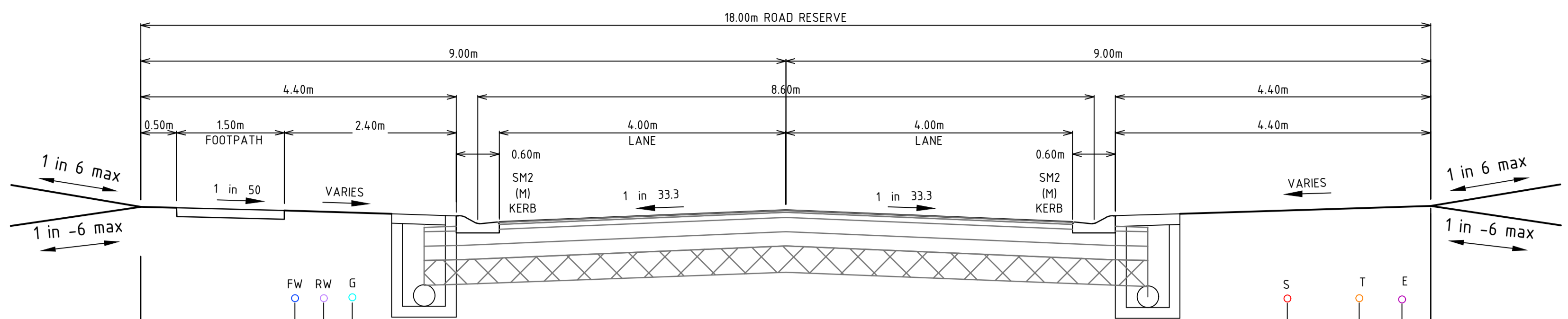
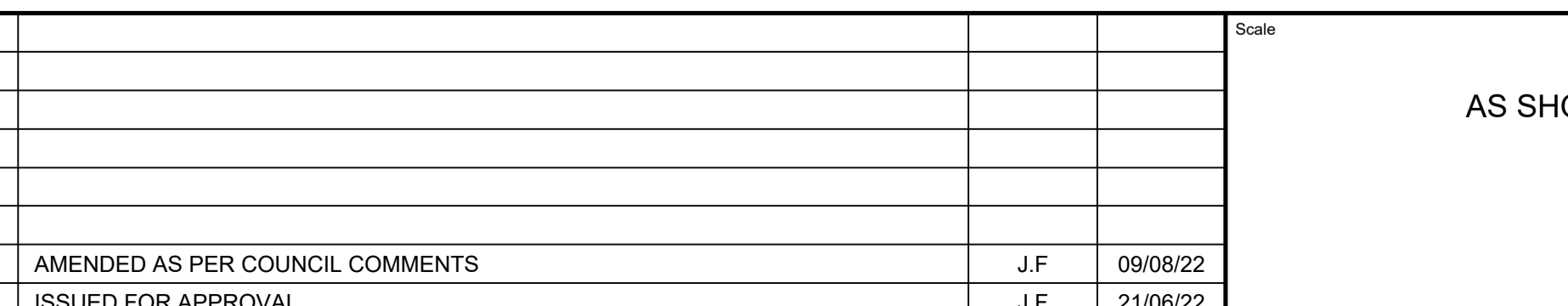
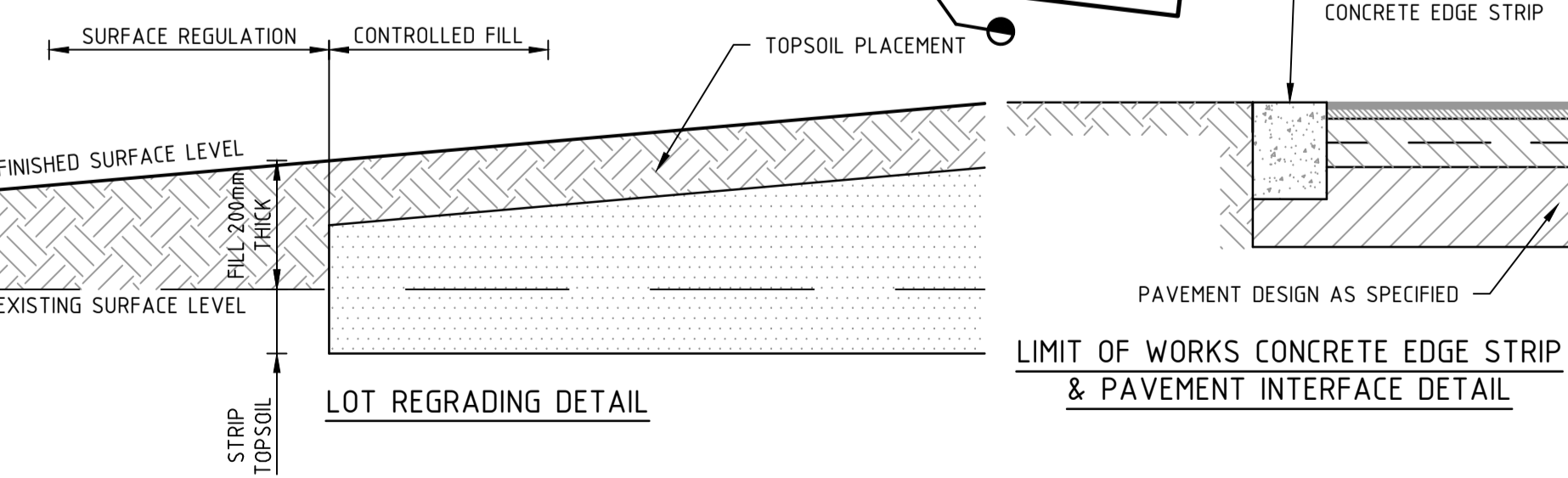
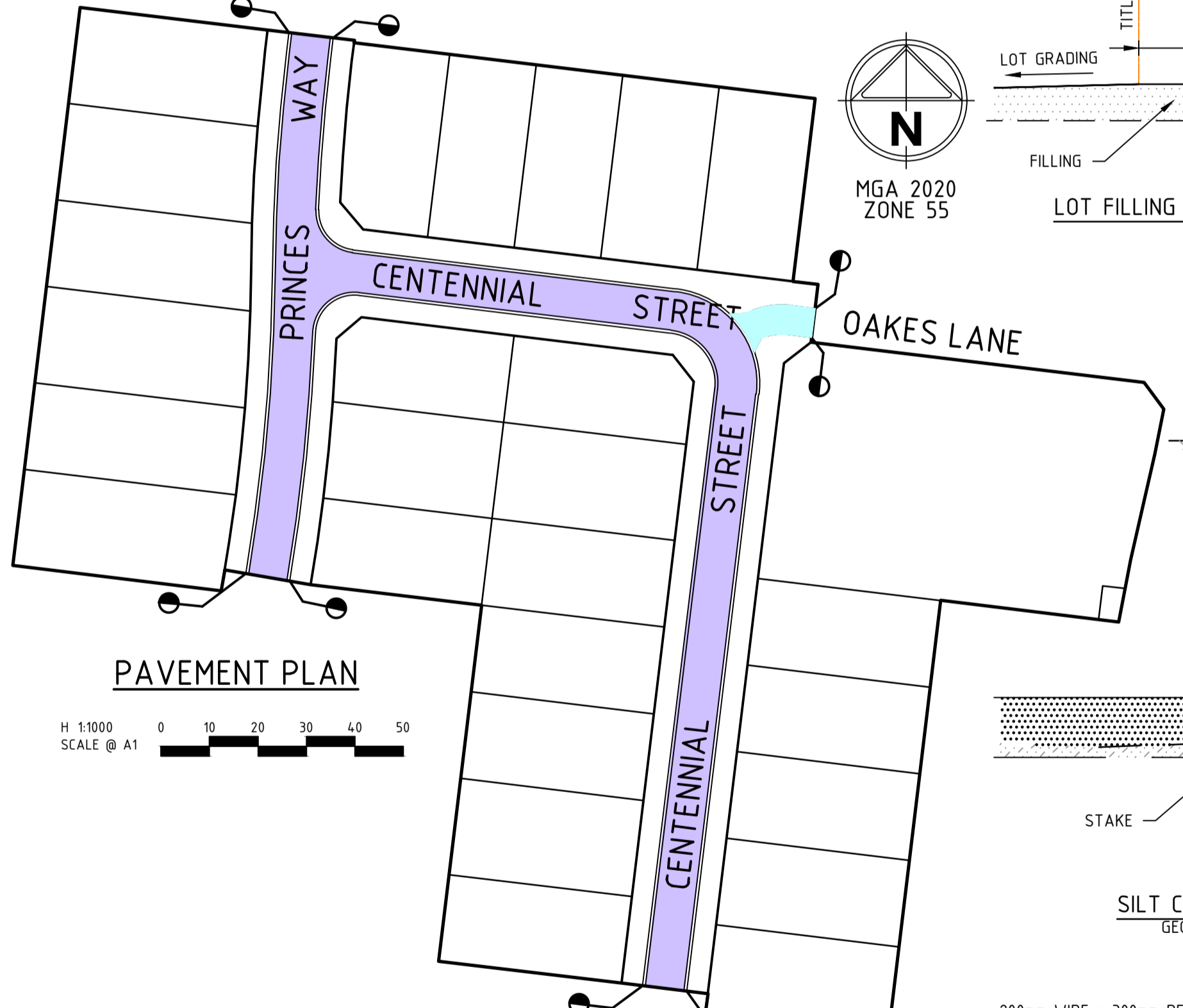


PAVEMENT DETAILS

THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN PROVIDED BY MURRAY RIVER COUNCIL (TYPE A) AND GEOTECHNICAL TESTING SERVICES (GTS) (TYPE B). SPIRE DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS. ANY QUERIES IN RESPECT TO THE PAVEMENT DESIGNS SHOULD BE ADDRESSED TO MURRAY RIVER COUNCIL OR GTS AND COPIED TO SPIRE.

GENERAL NOTES:

- ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE.
- ALL CONCRETE TO BE MINIMUM 25MPa COMPRESSIVE STRENGTH
- CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY AROUND REINFORCEMENT AND IN CORNERS OF FORMS.
- PRIOR TO CASTING, THE UNBOUND GRANULAR SUBBASE MUST BE DAMP TO ENSURE NO EARLY "DRYING OUT" OF THE CONCRETE.
- SAW CUTTING OF CONCRETE SHOULD BE COMMENCED AS SOON AS CONCRETE PERMITS BY EXPERIENCED CONTRACTORS, BUT NO LATER THAN 12 HOURS AFTER POUR.
- ALL DOWELS TO BE GRADE 250R STEEL BARS, 800mm LONG AND PLACED AT 300mm CENTRES. REFER CCAA- "CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS" FOR DOWEL DIAMETERS. DOWELS MUST BE ACCURATELY PLACED TO ENSURE THE JOINT DOES NOT "LOCK". INSERTION OF DOWELS DURING THE PLACING OF CONCRETE IS NOT ACCEPTABLE. DOWELS MUST BE SAWN AND NOT CROPPED.
- ALL JOINTS TO BE APPROPRIATELY SEALED TO RESIST THE INTRUSION OF SAND AND GRAVEL AND TO MINIMISE THE INGRESS OF WATER.



Rev	Amendments	Approved	Date
B	AMENDED AS PER COUNCIL COMMENTS	J.F	09/08/22
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AS SHOWN

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Designed
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B.IBBS

Authorised
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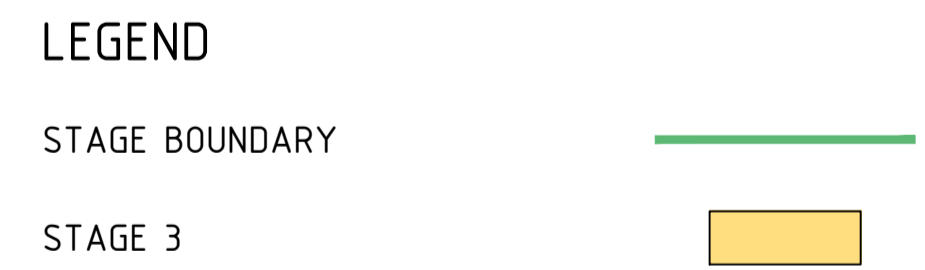
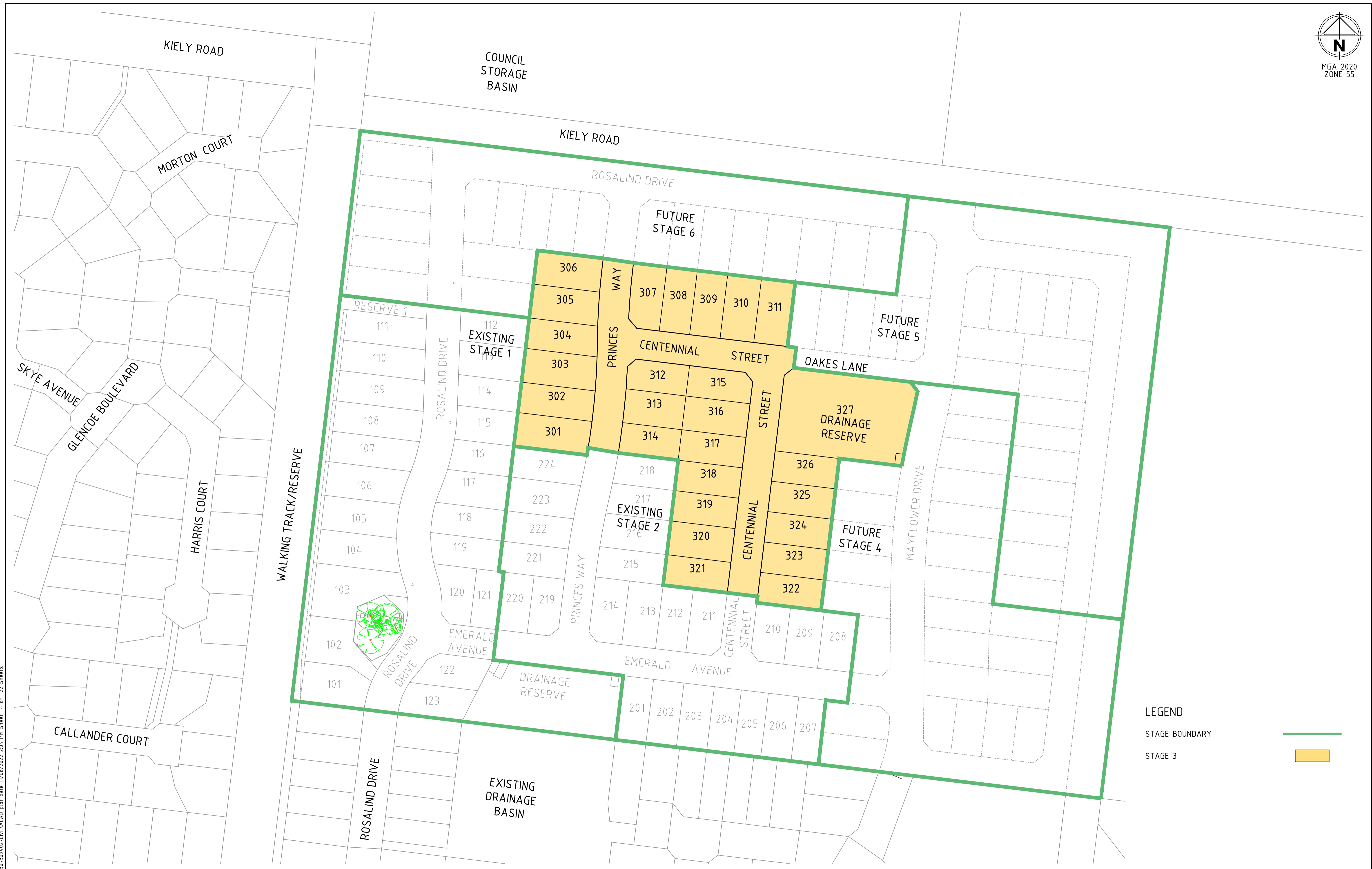
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**MAIDENS GREEN
STAGE 3
GENERAL ARRANGEMENT PLAN
SHEET 1**

MURRAY RIVER COUNCIL
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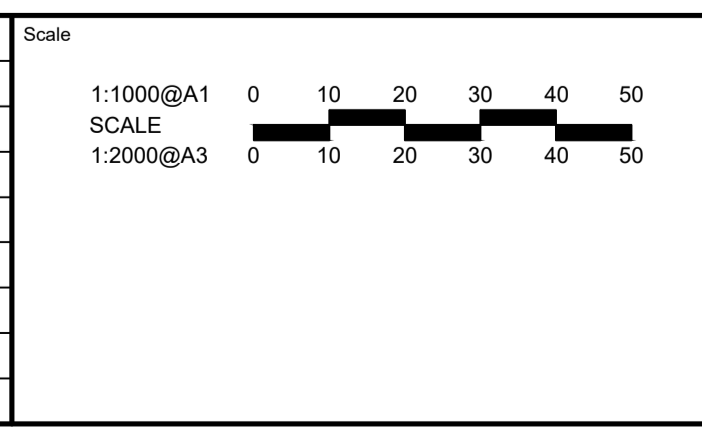
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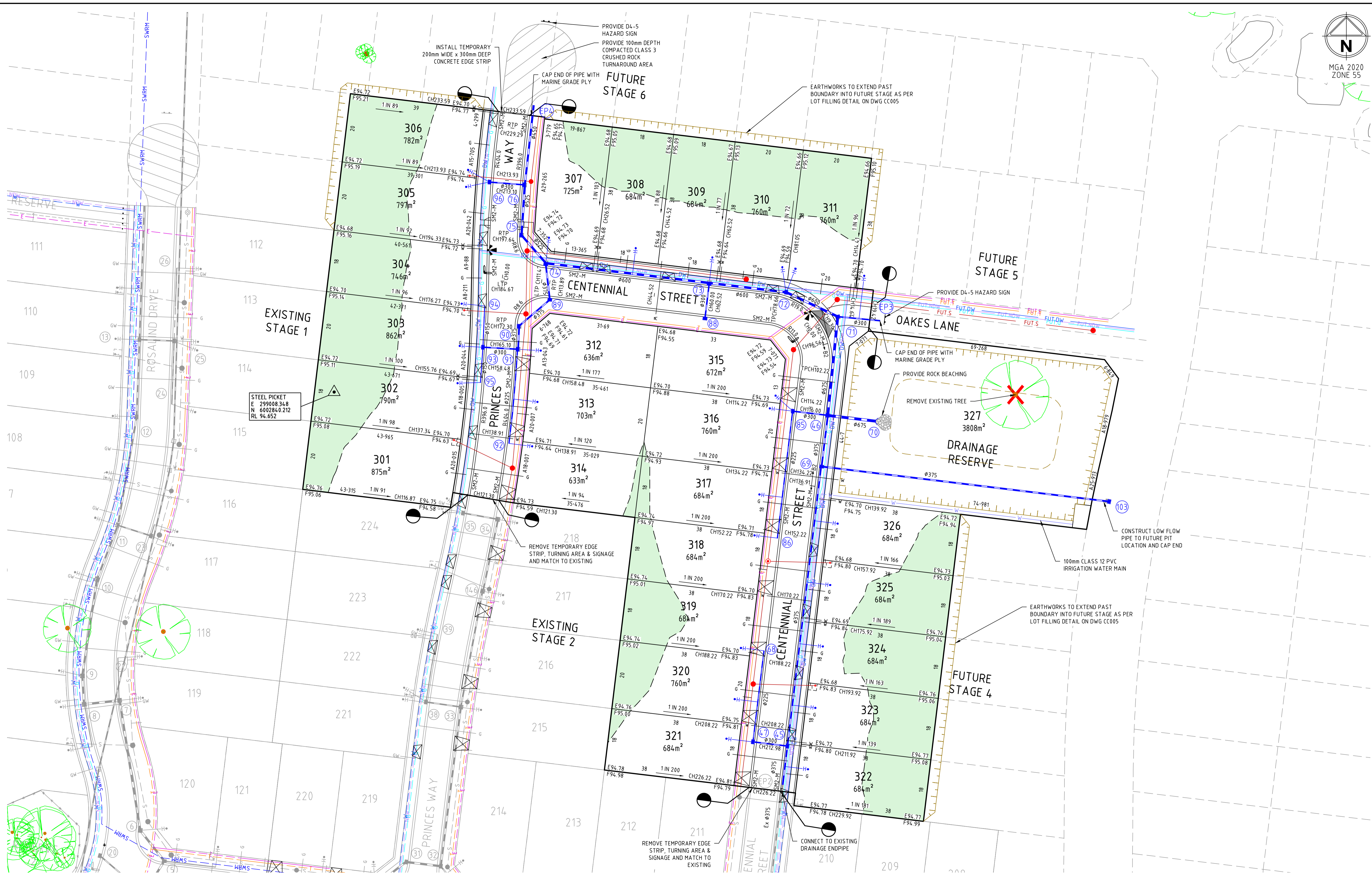
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Designed D.SHEEHAN	Checked B.IBBS
Authorised J.FEHRING	Date JUN 2022

**MAIDENS GREEN
STAGE 3
STAGING PLAN
SHEET 1**
MURRAY RIVER COUNCIL
KIELY ROAD PROJECTS PTY LTD

PRELIMINARY Drwg No 309402CC025 Rev B



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Rev	Amendments	Approved	Date
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A	ISSUED FOR APPROVAL	J.F	21/06/22

Scale
 1:500@A1
 SCALE
 1:1000@A3

MIN 3m

THE PRE-APPROVED PREFERRED DRIVEWAY LOCATIONS SHOWN ON THE PLANS ARE TO BE CONSTRUCTED BY EACH LANDOWNER AT A LATER DATE.

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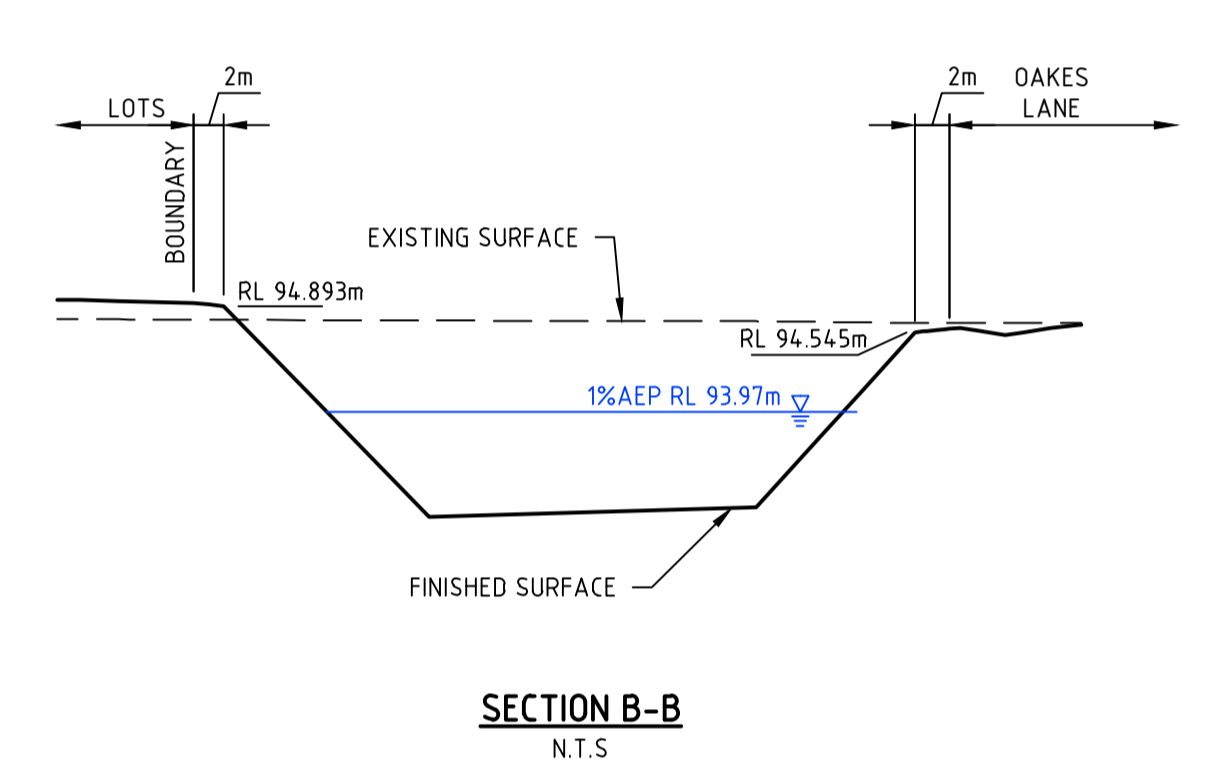
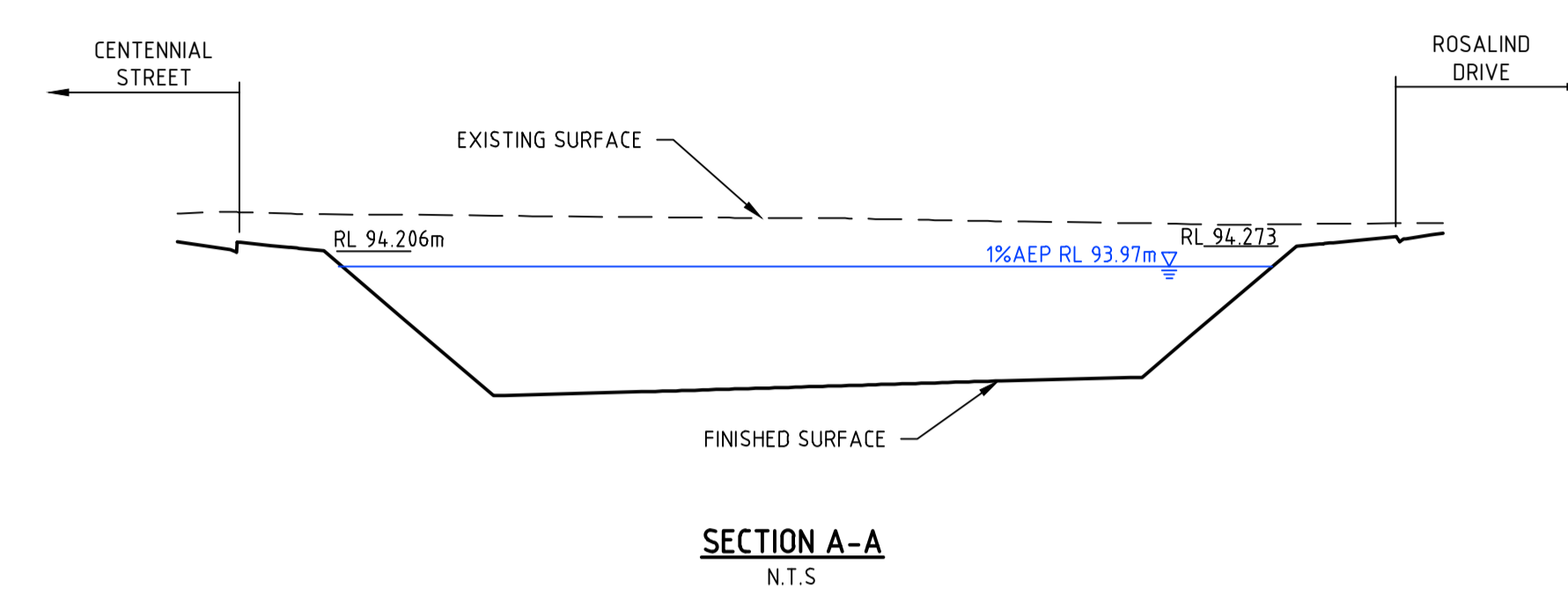
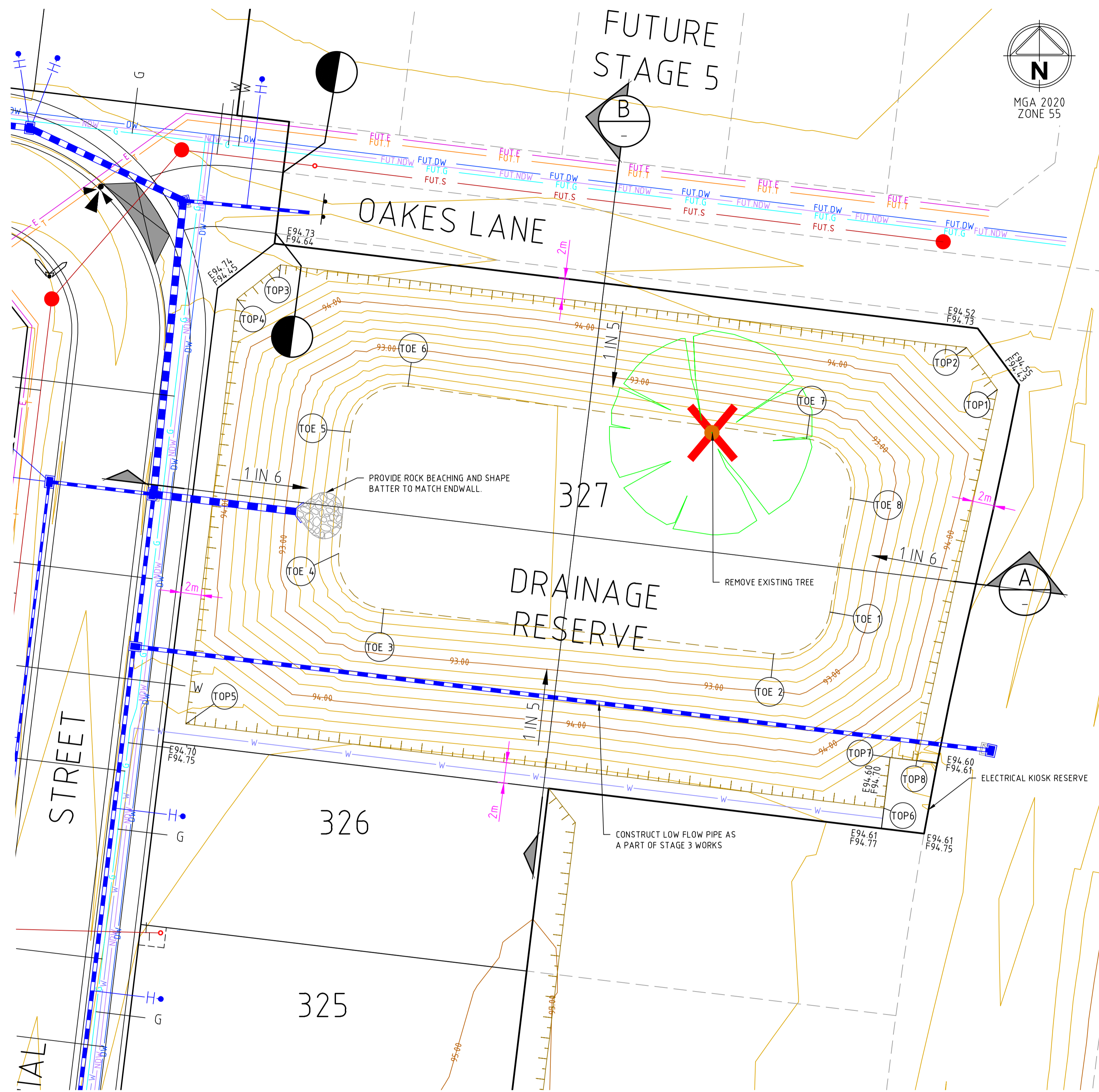
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Designed D.SHEEHAN	Checked B.IBBS
Authorised J.FEHRING	Date JUN 2022

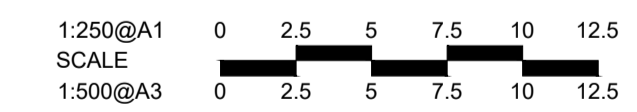
MAIDENS GREEN STAGE 3 ROAD LAYOUT PLAN
 MURRAY RIVER COUNCIL
 KIELY ROAD PROJECTS PTY LTD

PRELIMINARY Drg No **309402CC030** Rev **B**



BASIN TOE SETOUT POINTS				ALIGNMENT BATTER TOP					
POINT NO	EASTING	NORTHING	RL	CHAINAGE	POINT NO	EASTING	NORTHING	RL	CHAINAGE
TOE 1	299218.216	6002821.920	92.276	0.000	TOP1	299234.598	6002843.676	94.242	0.000
¼	299217.546	6002820.170	92.265	1.885	TOP2	299231.569	6002847.792	94.630	5.111
½	299216.279	6002818.789	92.253	3.770	TOP3	299164.480	6002855.884	94.602	72.686
¾	299214.593	6002817.972	92.242	5.655	TOP4	299160.221	6002852.542	94.443	78.100
TOE 2	299212.724	6002817.833	92.230	7.540	TOP5	299155.206	6002810.972	94.623	119.971
TOE 3	299174.584	6002822.208	91.996	45.930	TOP6	299223.492	6002802.735	94.752	188.752
¼	299172.746	6002822.793	91.984	47.811	TOP7	299224.091	6002807.699	94.702	193.752
½	299171.267	6002824.031	91.977	49.812	TOP8	299226.712	6002807.383	94.651	196.393
¾	299170.366	6002825.736	91.989	51.753					
TOE 4	299170.177	6002827.655	92.000	53.693					
TOE 5	299171.322	6002839.523	92.072	65.616					
¼	299171.905	6002841.429	92.084	67.623					
½	299173.186	6002842.956	92.096	69.629					
¾	299174.962	6002843.861	92.108	71.636					
TOE 6	299176.950	6002844.000	92.120	73.643					
TOE 7	299215.935	6002838.877	92.357	112.962					
¼	299217.832	6002838.221	92.370	114.984					
½	299219.319	6002836.871	92.370	117.005					
¾	299220.155	6002835.046	92.357	119.027					
TOE 8	299220.205	6002833.039	92.345	121.048					

Curve no	l	Radius	Arc	Mid Ord	Qtr Ord	X	Y	l	Mid Ord RL
TOE 12	86.399	5.000	7.540	1.355	1.004	1.582	1.841	1.885	92.253
TOE 34	88.966	5.000	7.764	1.433	1.061	1.611	1.893	1.941	91.977
TOE 56	91.978	5.000	8.027	1.526	1.129	1.643	1.953	2.007	92.096
TOE 78	92.657	5.000	8.086	1.547	1.144	1.650	1.967	2.021	92.370



file name: 309402CC030.dwg; layout name: CC031; plotted by: Doreen Stethem
 file location: \\spire\bandra\data\309402\CC031\309402.dwg\ACAD; plot date: 11/08/2022 2:05 PM; Sheet 6 of 22; Sheets

Rev	Amendments	Approved	Date
B	AMENDED AS PER COUNCIL COMMENTS	J.F	09/08/22
A	ISSUED FOR APPROVAL	J.F	21/06/22

AS SHOWN

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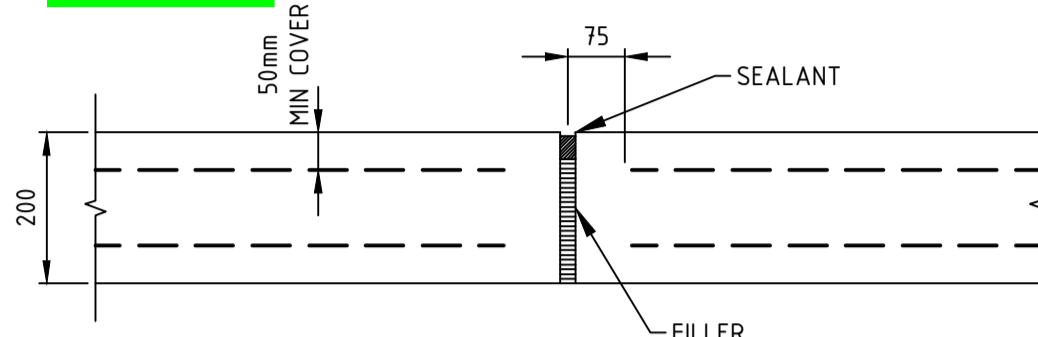
16 BRIDGE STREET BENDIGO
 VICTORIA 3550 AUSTRALIA T 61 3 5448 2500
 spiire.com.au ABN 55 050 029 635

Designed D.SHEEHAN	Checked B.IBBS
Authorised J.FEHRING	Date JUN 2022

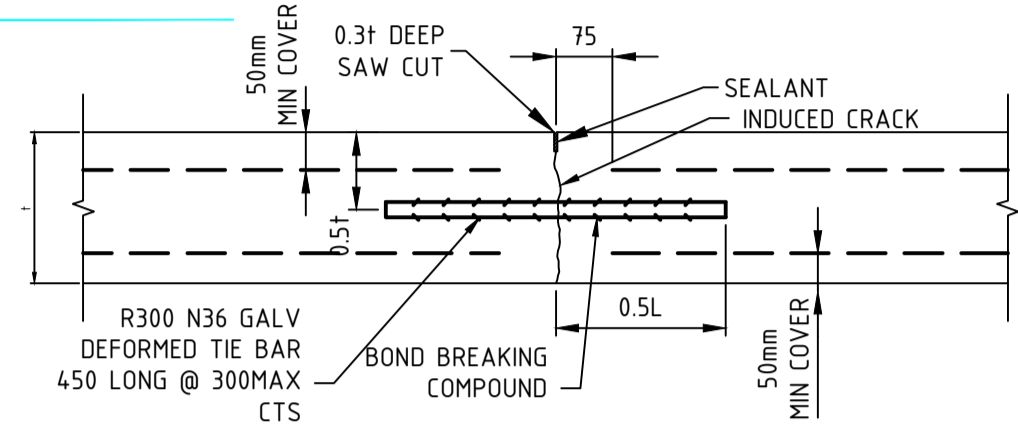
MAIDENS GREEN STAGE 3 ROAD LAYOUT PLAN DRAINAGE BASIN DETAILS
 MURRAY RIVER COUNCIL
 KIELY ROAD PROJECTS PTY LTD

PRELIMINARY Drg No **309402CC031** Rev **B**

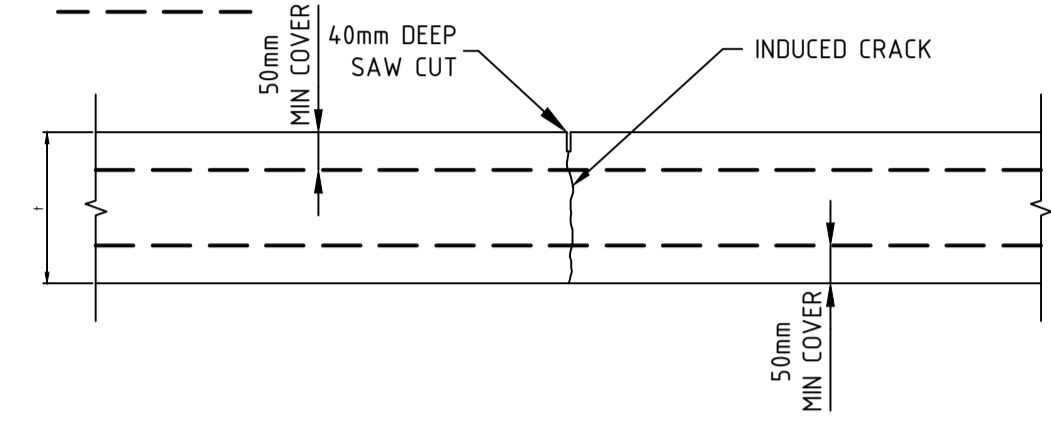
ISOLATION JOINT (IJ)



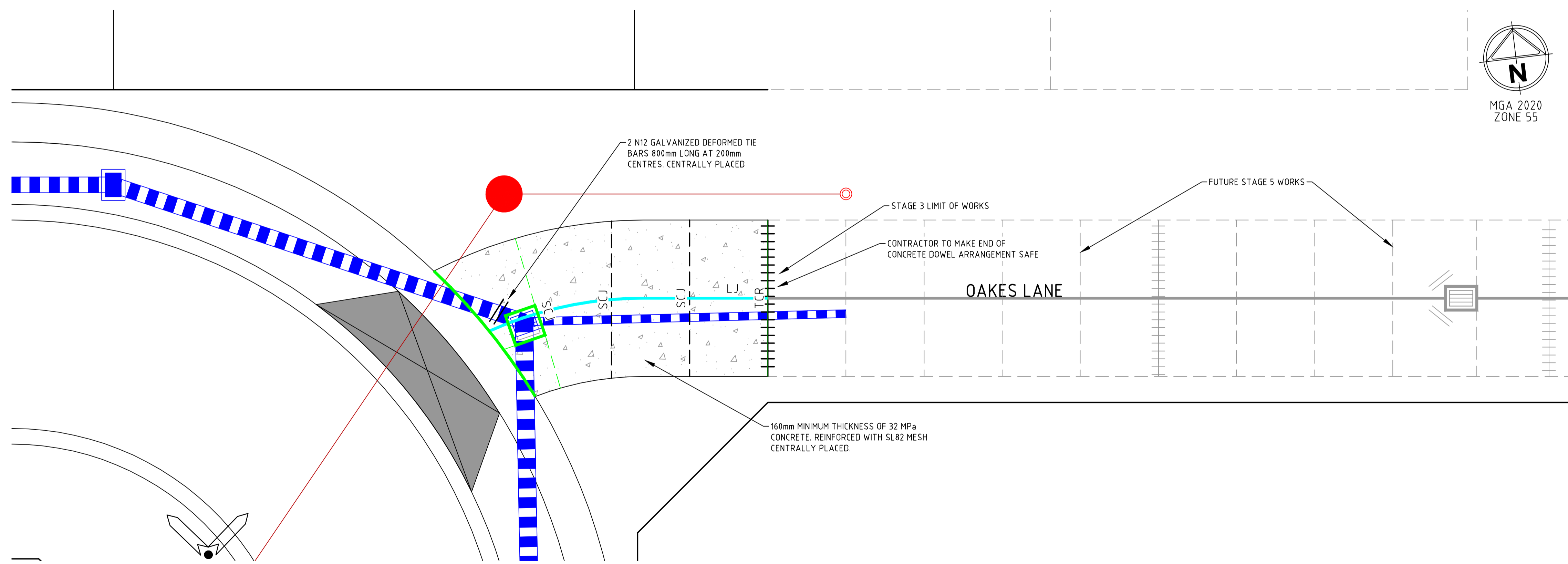
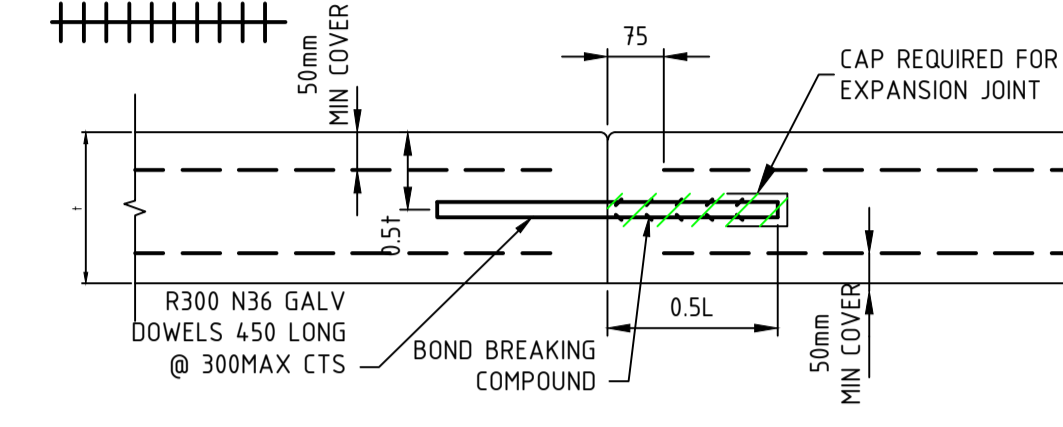
LONGITUDINAL JOINT (LJ)



SAW CUT (SCJ)



TRANVERSE CONTRACTION JOINT (TCR)

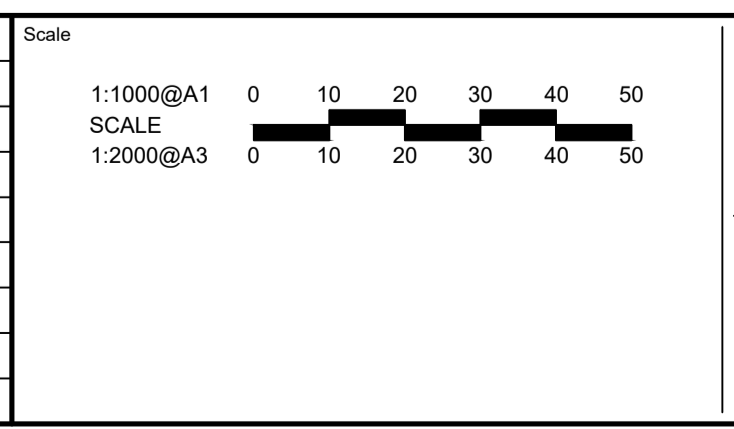


CONCRETE PAVEMENT BASE JOINTING PLAN - OAKES LANE



file name: 309402CC032.dwg; layout name: CC032; plotted by: Darren Sheehan; file location: \\spiire\bandra\data\309402\CC032\CC032.dwg; plot date: 11/08/2022 2:05 PM; Sheet 1 of 22 Sheets

Rev	Amendments	Approved	Date
A	AMENDED AS PER COUNCIL COMMENTS	J.F	09/08/22



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Authorised J.FEHRING	Date AUG 2022

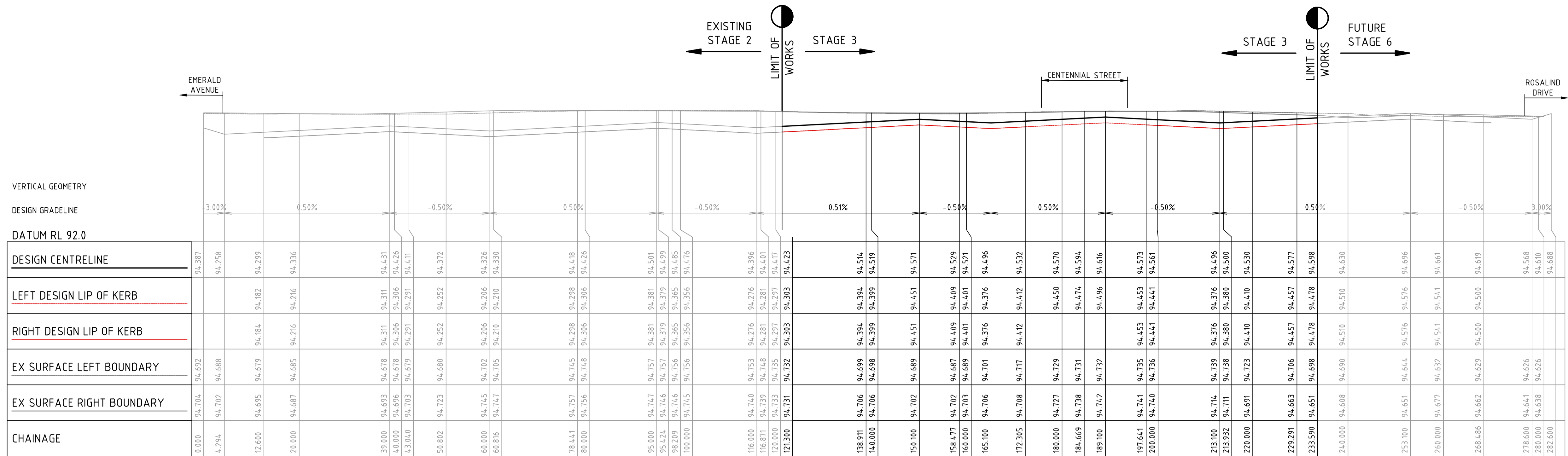
MAIDENS GREEN
STAGE 3
ROAD LAYOUT PLAN
CONCRETE JOINTING PLAN
 MURRAY RIVER COUNCIL
 KIELY ROAD PROJECTS PTY LTD

PRELIMINARY

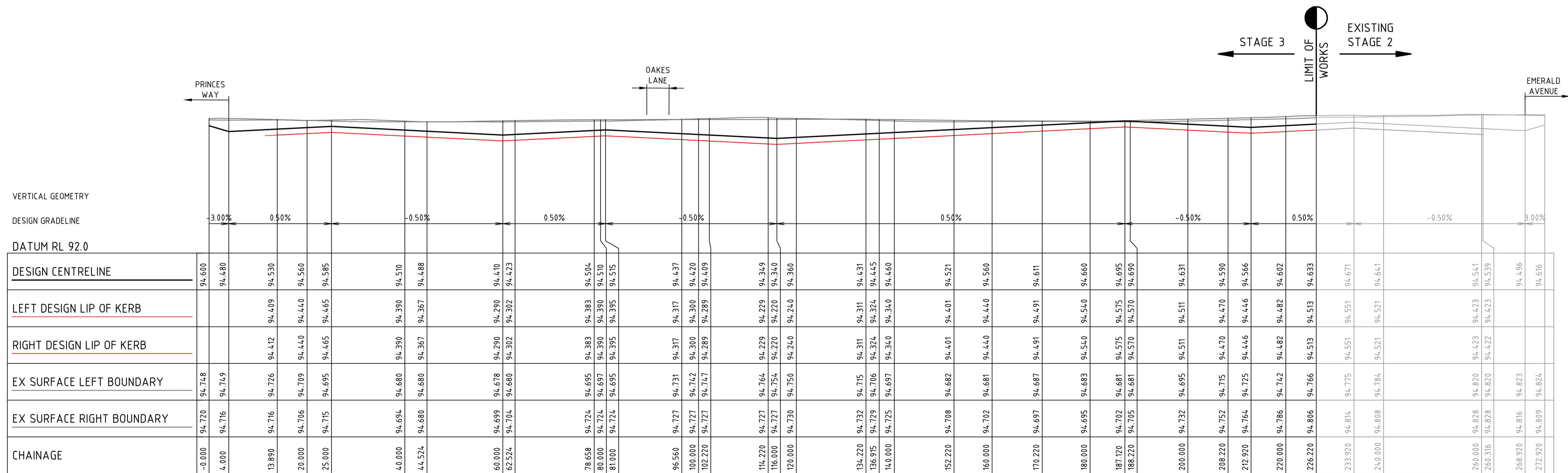
 Dwg No
309402CC032

 Rev
A

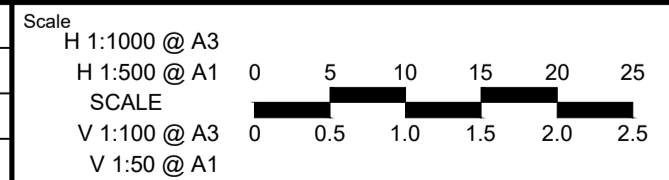
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PRINCES WAY



CENTENNIAL STREET



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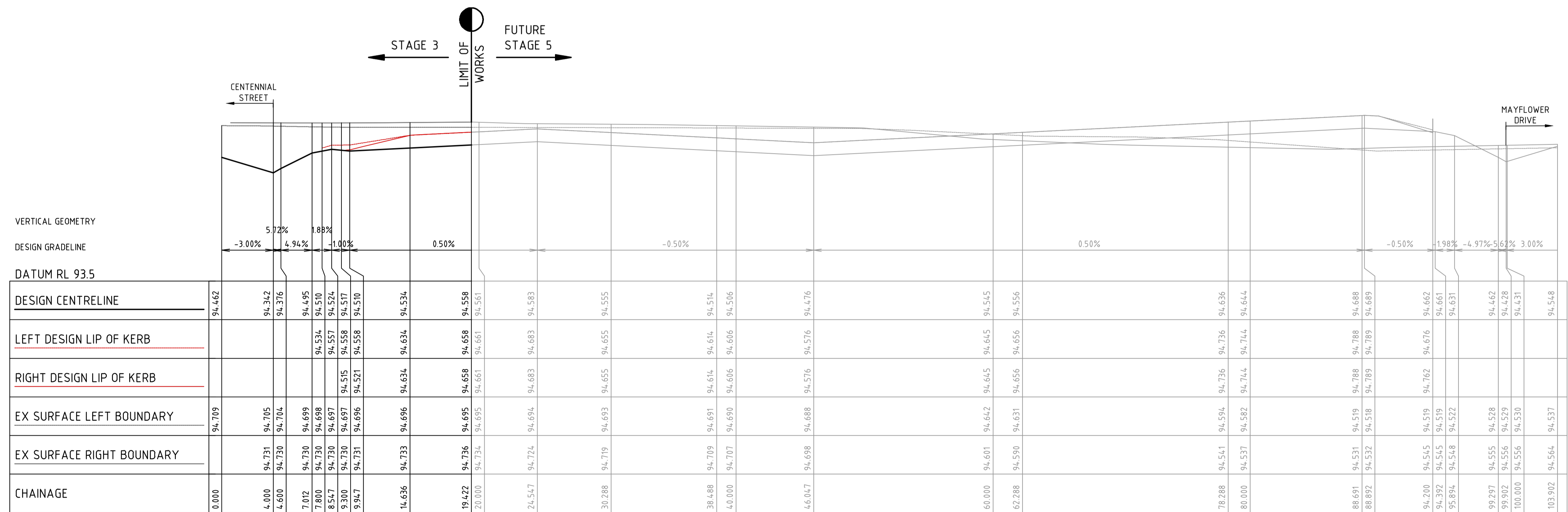
Designed
D.SHEEHAN
 Authorised
J.FEHRING

Checked
B.IBBS
 Date
JUN 2022

**MAIDENS GREEN
 STAGE 3
 ROAD LONGITUDINAL SECTIONS
 PRINCES WAY & CENTENNIAL STREET
 MURRAY RIVER COUNCIL
 KIELY ROAD PROJECTS PTY LTD**

PRELIMINARY Drg No **309402CC100** Rev **B**

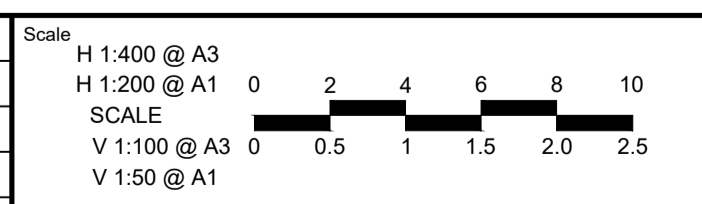
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OAKES LANE

CHAINAGE	DESIGN CENTRELINE	LEFT DESIGN LIP OF KERB	RIGHT DESIGN LIP OF KERB	EX SURFACE LEFT BOUNDARY	EX SURFACE RIGHT BOUNDARY
0.000	94.462			94.709	
4.000	94.342			94.731	94.705
4.600	94.376			94.730	94.704
7.012	94.495			94.730	94.699
7.800	94.510	94.534		94.730	94.698
8.547	94.524	94.557		94.730	94.697
9.300	94.537	94.558		94.730	94.697
9.947	94.550	94.558		94.731	94.696
14.636	94.534	94.634		94.733	94.696
19.422	94.558	94.658		94.736	94.695
20.000	94.561	94.661		94.734	94.695
24.547	94.583	94.683		94.724	94.694
30.288	94.555	94.655		94.719	94.693
38.488	94.514	94.614		94.709	94.691
40.000	94.506	94.606		94.707	94.690
46.047	94.476	94.576		94.698	94.688
60.000	94.545	94.645		94.601	94.642
62.288	94.556	94.656		94.590	94.631
78.288	94.636	94.736		94.541	94.594
80.000	94.644	94.744		94.537	94.582
88.691	94.688	94.788		94.531	94.519
88.892	94.689	94.789		94.532	94.518
94.200	94.662	94.676		94.545	94.519
94.392	94.661	94.661		94.545	94.519
95.894	94.631			94.548	94.522
99.297	94.462			94.555	94.528
99.902	94.428			94.556	94.529
100.000	94.431			94.556	94.530
103.902	94.548			94.564	94.537

Rev	Amendments	Approved	Date
B	AMENDED AS PER COUNCIL COMMENTS	J.F	09/08/22
A	ISSUED FOR APPROVAL	J.F	21/06/22



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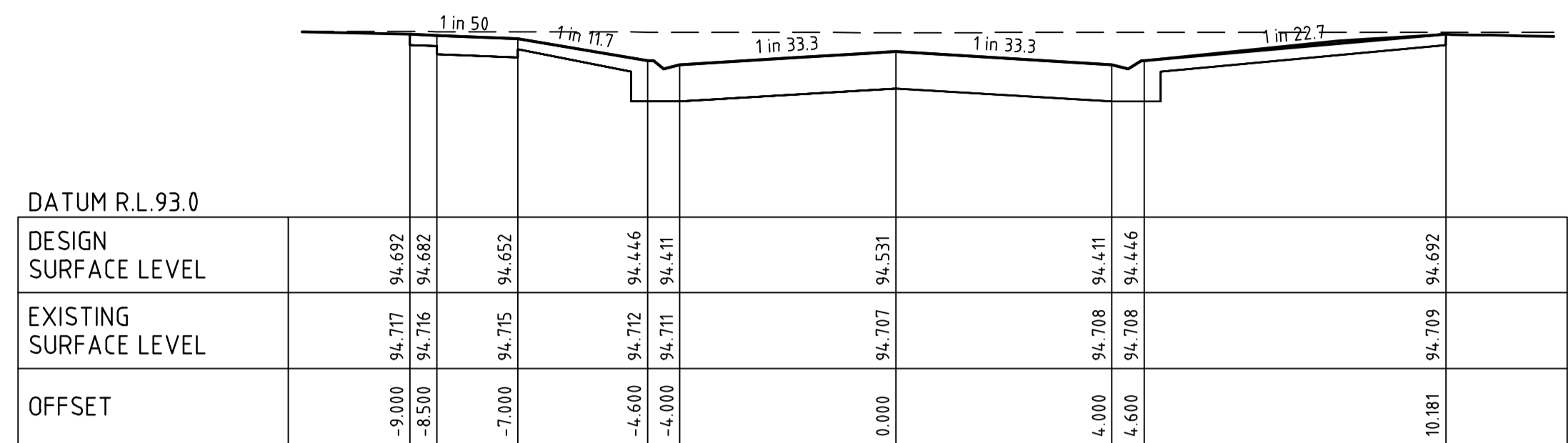
MAIDENS GREEN
STAGE 3
ROAD LONGITUDINAL SECTIONS
OAKES LANE
 MURRAY RIVER COUNCIL
 KIELY ROAD PROJECTS PTY LTD

PRELIMINARY

Dwg No
309402CC101

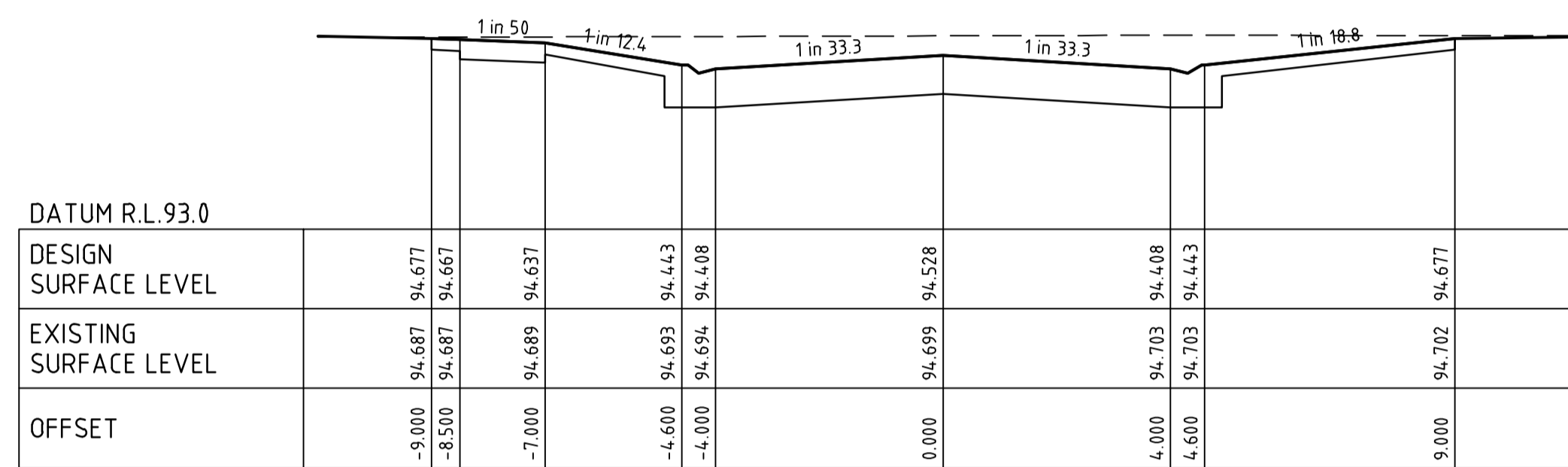
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file name: 309402CC140.dwg; layout: asis; cctv: plotted by: Doreen Sheehan; file location: \\spire\beanda\data\309402\KIV\ACAD; plot date: 11/08/2022 2:05 PM; Sheet 10 of 22 Sheets



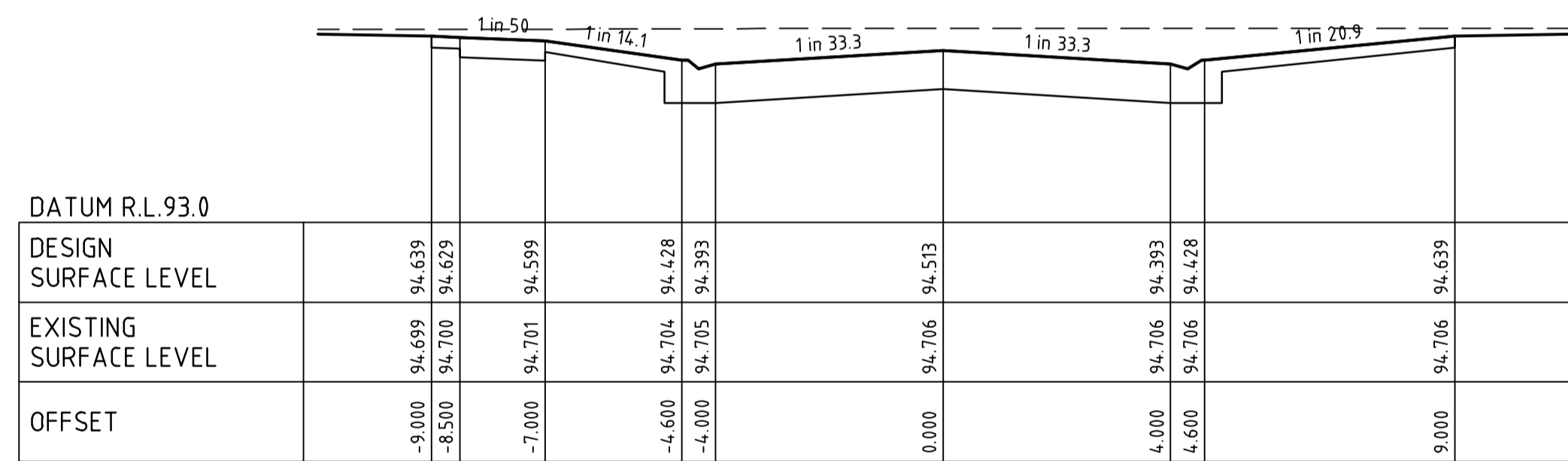
PRINCES WAY

CH 172.31



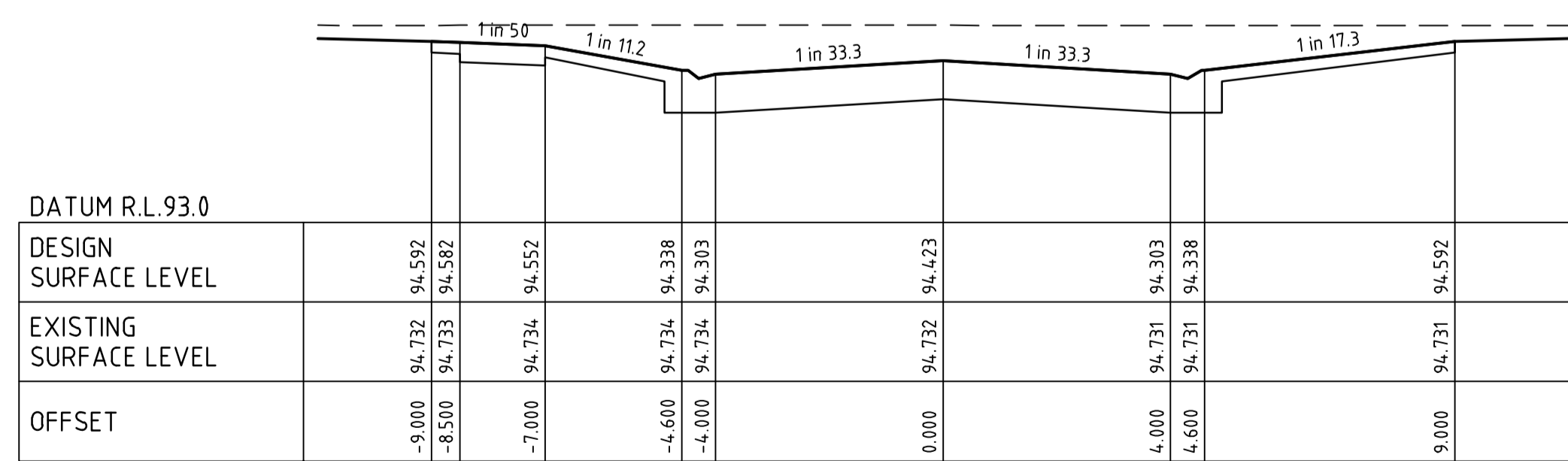
PRINCES WAY

CH 158.48



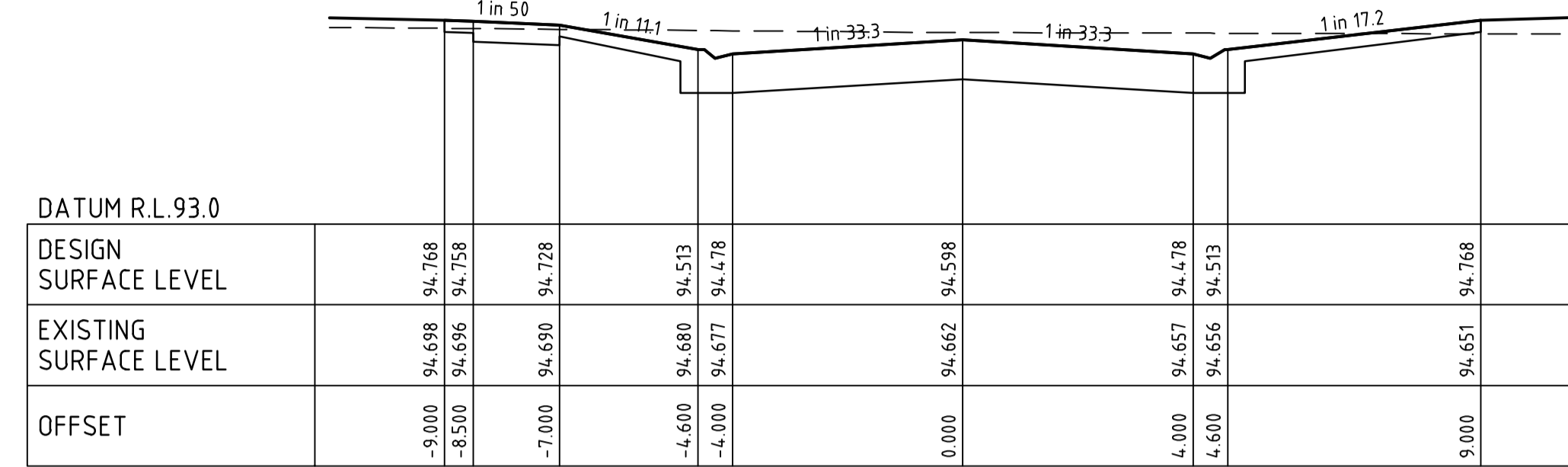
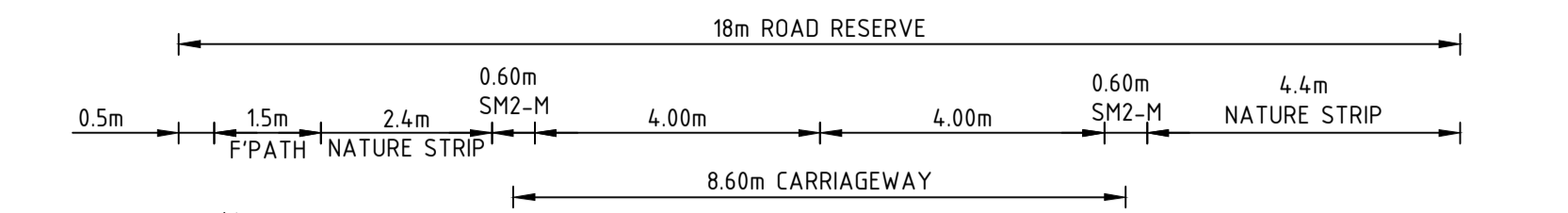
PRINCES WAY

CH 138.91



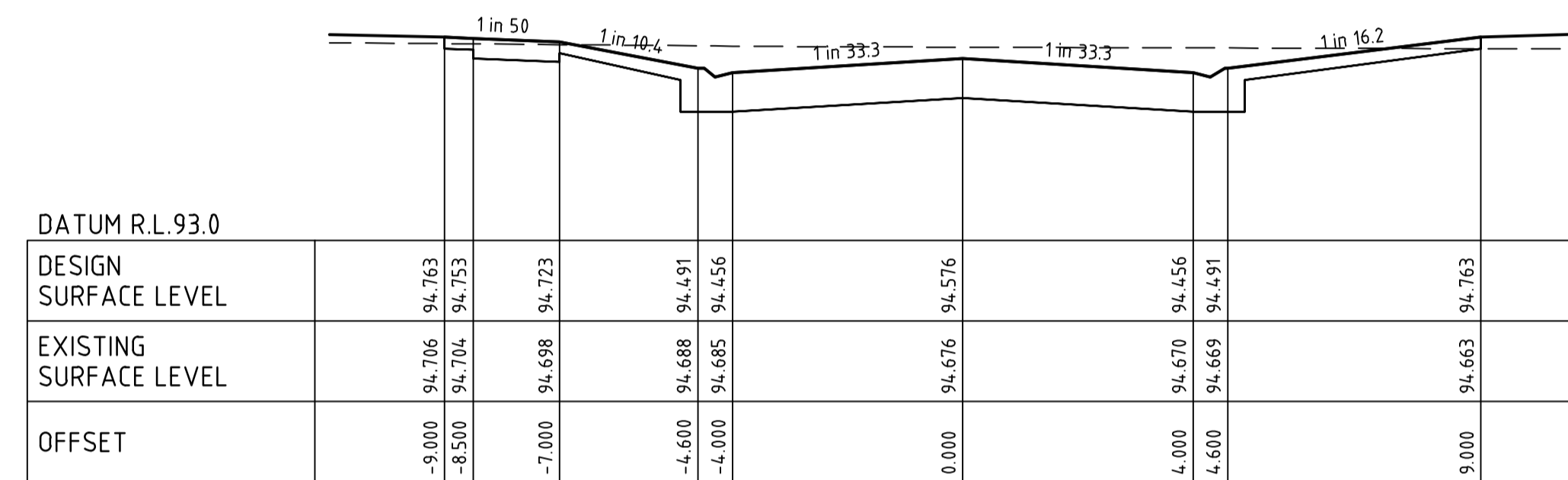
PRINCES WAY

CH 121.30



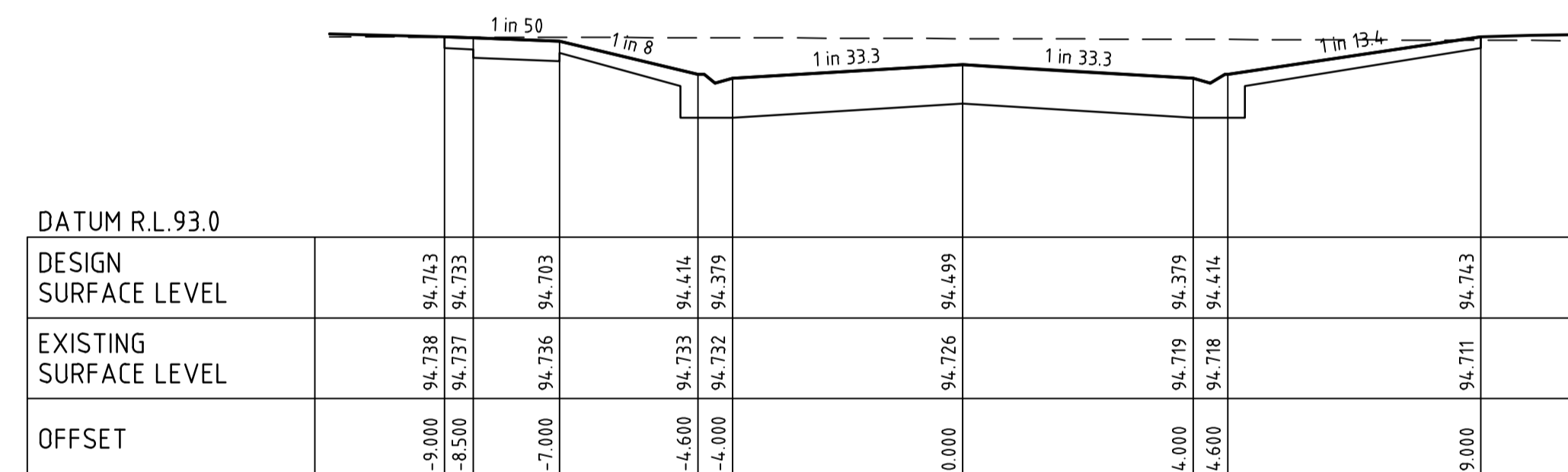
PRINCES WAY

CH 233.59



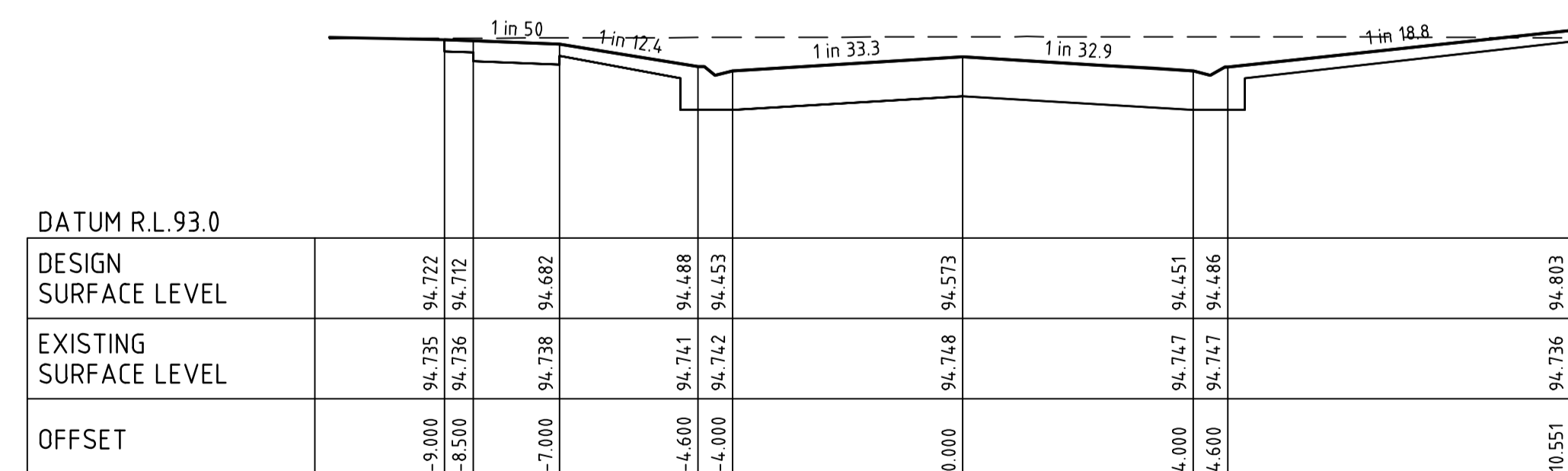
PRINCES WAY

CH 229.29



PRINCES WAY

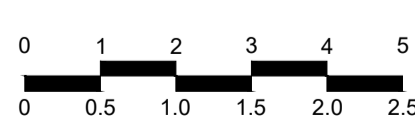
CH 213.93



PRINCES WAY

CH 197.64

Scale
 H 1:200 @ A3
 H 1:100 @ A1
 SCALE
 V 1:100 @ A3
 V 1:50 @ A1



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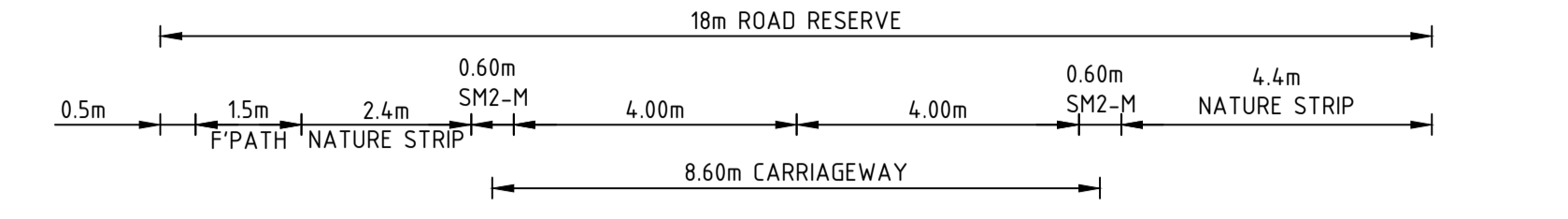
Designed
 D.SHEEHAN
 Authorised
 J.FEHRING

Checked
 B.IBBS
 Date
 JUN 2022

MAIDENS GREEN
 STAGE 3
 ROAD CROSS SECTIONS
 PRINCES WAY
 MURRAY RIVER COUNCIL
 KIELY ROAD PROJECTS PTY LTD

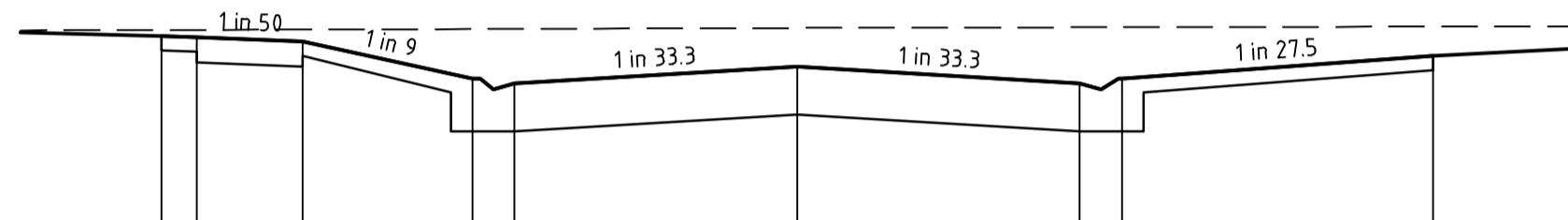
PRELIMINARY Drg No 309402CC140 Rev B

file name: 309402CC141.dwg; layout: asis; CC141; plotted by: Darnest Sheehan; file location: \\spire\beanda\data\309402\CC141\ACAD\plot_data\11/08/2022_2:05 PM_Sheet_11 of 22_Sheets



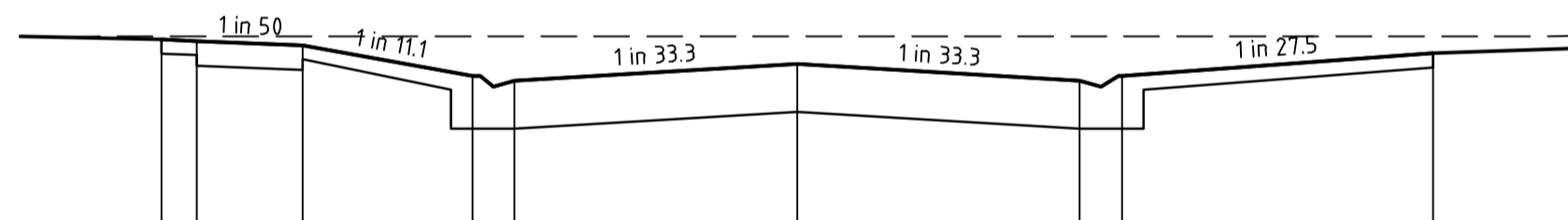
DATUM R.L. 93.0	
DESIGN SURFACE LEVEL	94.618 94.608 94.578 94.418 94.383 94.503 94.383 94.418 94.578
EXISTING SURFACE LEVEL	94.695 94.696 94.698 94.702 94.703 94.709 94.716 94.717 94.724 94.578
OFFSET	-9.000 -8.500 -7.000 -4.600 -4.000 0.000 4.000 4.600 9.000

CENTENNIAL STREET CH 78.66



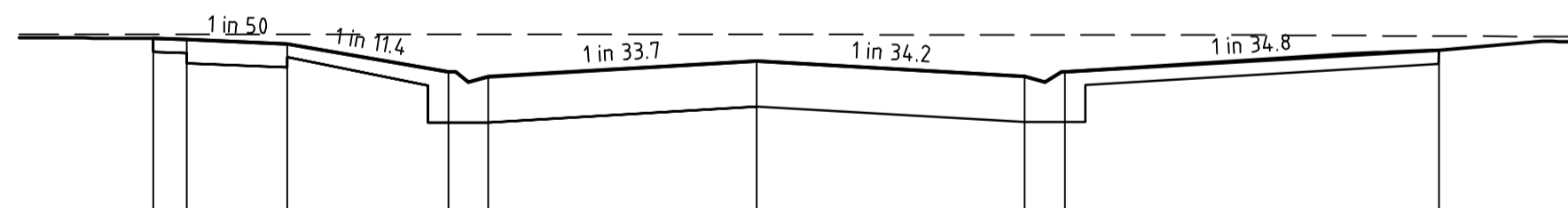
DATUM R.L. 93.0	
DESIGN SURFACE LEVEL	94.637 94.627 94.597 94.437 94.302 94.422 94.302 94.497
EXISTING SURFACE LEVEL	94.680 94.681 94.683 94.686 94.687 94.694 94.699 94.704 94.497
OFFSET	-9.000 -8.500 -7.000 -4.600 -4.000 0.000 4.000 4.600 9.000

CENTENNIAL STREET CH 62.52



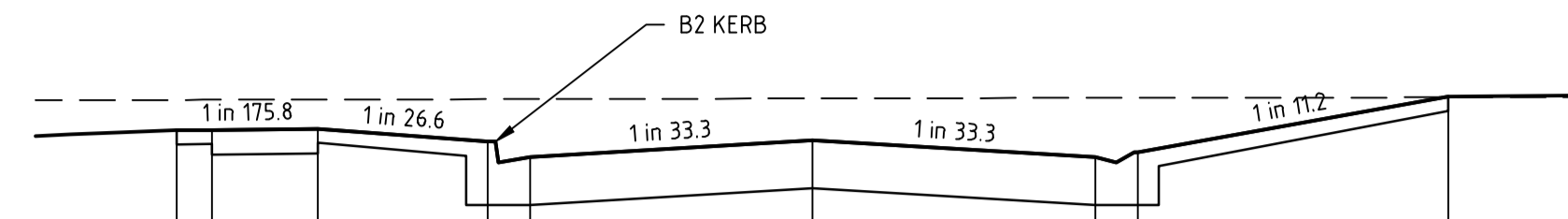
DATUM R.L. 93.0	
DESIGN SURFACE LEVEL	94.659 94.649 94.619 94.402 94.367 94.487 94.367 94.562
EXISTING SURFACE LEVEL	94.680 94.680 94.681 94.682 94.682 94.681 94.681 94.680 94.562
OFFSET	-9.000 -8.500 -7.000 -4.600 -4.000 0.000 4.000 4.600 9.000

CENTENNIAL STREET CH 44.52



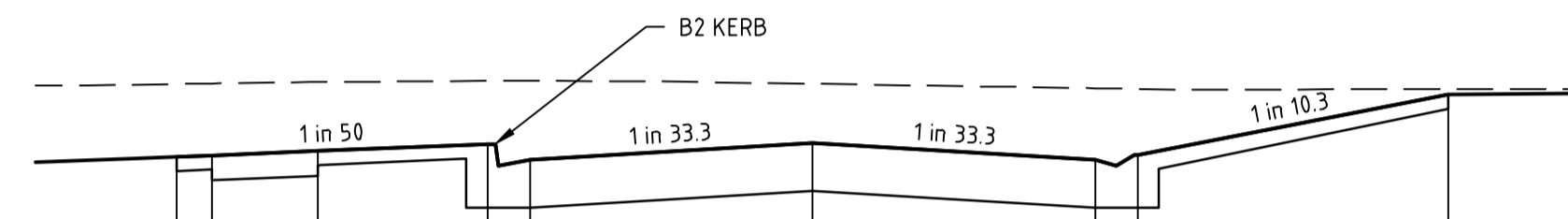
DATUM R.L. 93.0	
DESIGN SURFACE LEVEL	94.696 94.686 94.656 94.446 94.411 94.529 94.412 94.447 94.607
EXISTING SURFACE LEVEL	94.726 94.726 94.727 94.728 94.727 94.723 94.722 94.713 94.607
OFFSET	-9.000 -8.500 -7.000 -4.600 -4.000 0.000 4.000 4.600 10.173

CENTENNIAL STREET CH 13.89



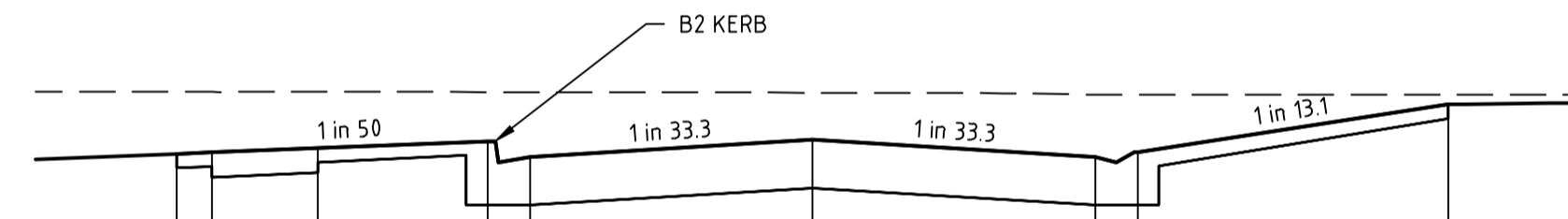
DATUM R.L. 93.0	
DESIGN SURFACE LEVEL	94.499 94.502 94.511 94.421 94.311 94.431 94.311 94.739
EXISTING SURFACE LEVEL	94.715 94.715 94.717 94.719 94.720 94.725 94.729 94.739
OFFSET	-9.000 -8.500 -7.000 -4.600 -4.000 0.000 4.000 9.000

CENTENNIAL STREET CH 134.22



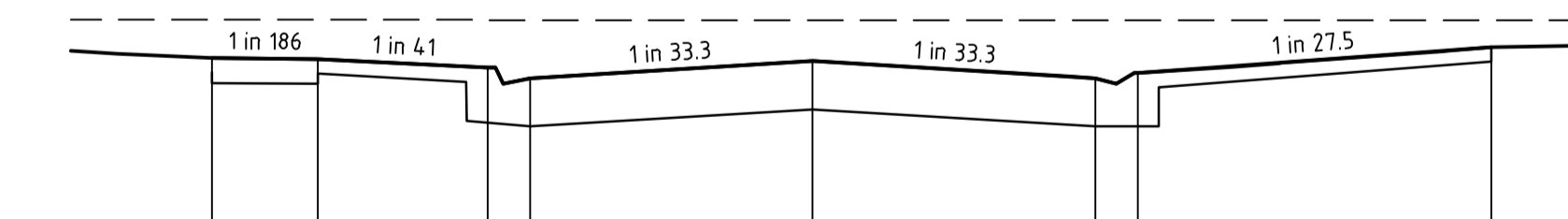
DATUM R.L. 93.0	
DESIGN SURFACE LEVEL	94.251 94.261 94.291 94.339 94.229 94.349 94.229 94.689
EXISTING SURFACE LEVEL	94.764 94.768 94.778 94.786 94.786 94.766 94.735 94.727 94.689
OFFSET	-9.000 -8.500 -7.000 -4.600 -4.000 0.000 4.000 9.000

CENTENNIAL STREET CH 114.22



DATUM R.L. 93.0	
DESIGN SURFACE LEVEL	94.311 94.321 94.351 94.399 94.289 94.409 94.289 94.660
EXISTING SURFACE LEVEL	94.747 94.747 94.749 94.747 94.746 94.742 94.728 94.727 94.660
OFFSET	-9.000 -8.500 -7.000 -4.600 -4.000 0.000 4.000 9.000

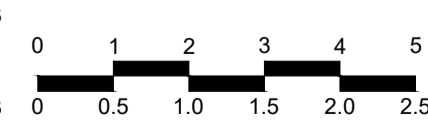
CENTENNIAL STREET CH 102.22



DATUM R.L. 93.0	
DESIGN SURFACE LEVEL	94.458 94.450 94.392 94.317 94.437 94.317 94.352 94.534
EXISTING SURFACE LEVEL	94.730 94.729 94.728 94.728 94.726 94.725 94.727 94.534
OFFSET	-8.500 -7.000 -4.600 -4.000 0.000 4.000 4.600 9.607

CENTENNIAL STREET CH 96.56

Scale
H 1:200 @ A3
H 1:100 @ A1
SCALE
V 1:100 @ A3
V 1:50 @ A1



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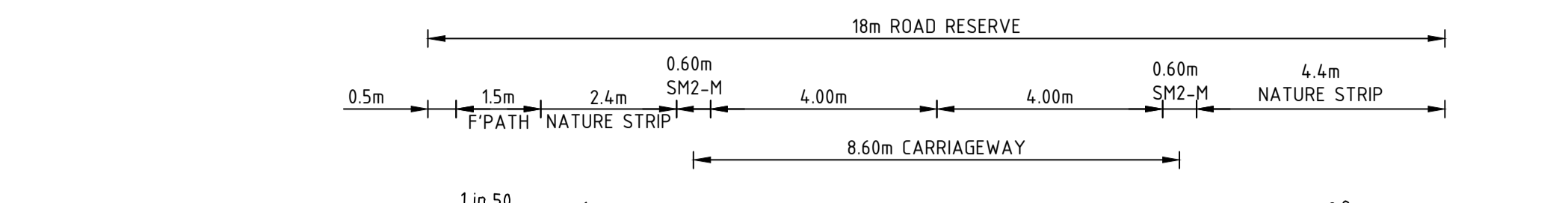
16 BRIDGE STREET BENDIGO
VICTORIA 3550 AUSTRALIA T 61 3 5448 2500
spiire.com.au ABN 55 050 029 635

Designed
D.SHEEHAN
Authorised
J.FEHRING

Checked
B.IBBS
Date
JUN 2022

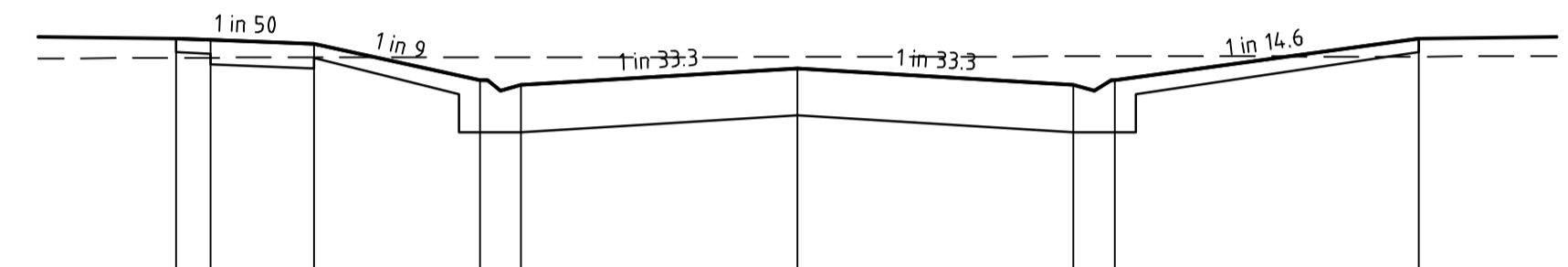
**MAIDENS GREEN
STAGE 3
ROAD CROSS SECTIONS
CENTENNIAL STREET - SHEET 1 OF 2**
MURRAY RIVER COUNCIL
KIELY ROAD PROJECTS PTY LTD

PRELIMINARY Drg No **309402CC141** Rev **B**



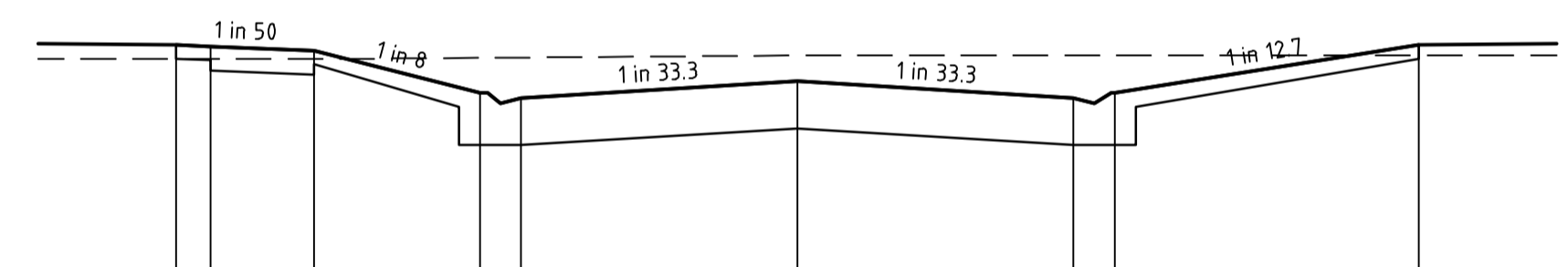
DATUM R.L. 93.0	
DESIGN SURFACE LEVEL	94.833 94.833 94.793 94.605 94.570 94.690 94.570 94.605 94.833
EXISTING SURFACE LEVEL	94.681 94.681 94.680 94.680 94.681 94.688 94.695 94.696 94.705
OFFSET	-9.000 -8.500 -7.000 -4.600 -4.000 0.000 4.000 4.600 9.000

CENTENNIAL STREET CH 188.22



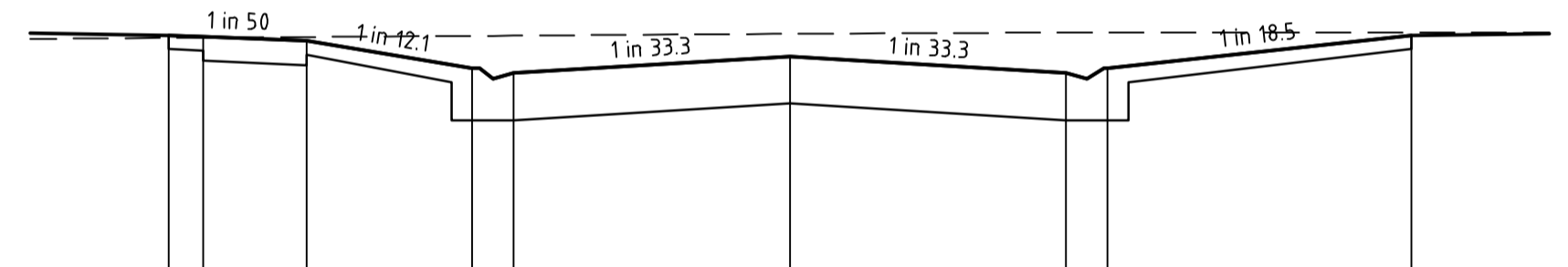
DATUM R.L. 93.0	
DESIGN SURFACE LEVEL	94.827 94.817 94.787 94.526 94.491 94.611 94.491 94.526 94.827
EXISTING SURFACE LEVEL	94.687 94.688 94.682 94.692 94.692 94.694 94.698 94.698 94.697
OFFSET	-9.000 -8.500 -7.000 -4.600 -4.000 0.000 4.000 4.600 9.000

CENTENNIAL STREET CH 170.22



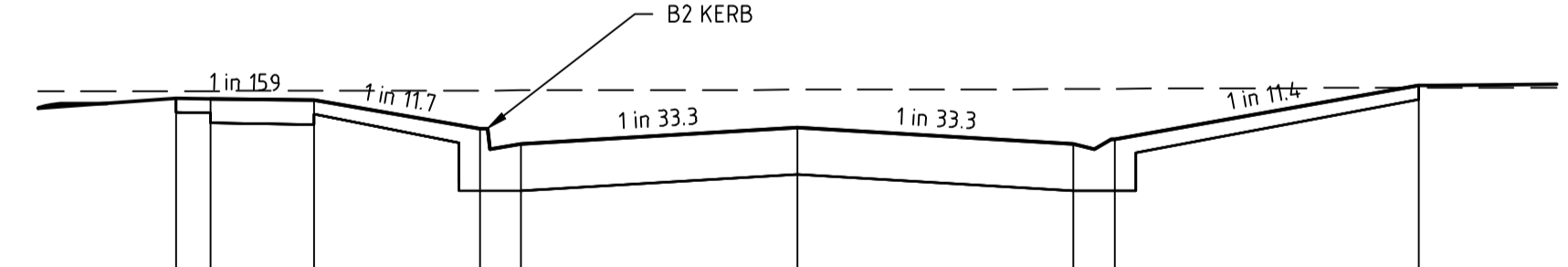
DATUM R.L. 93.0	
DESIGN SURFACE LEVEL	94.783 94.773 94.743 94.436 94.401 94.521 94.401 94.436 94.783
EXISTING SURFACE LEVEL	94.682 94.682 94.683 94.690 94.692 94.708 94.707 94.707 94.708
OFFSET	-9.000 -8.500 -7.000 -4.600 -4.000 0.000 4.000 4.600 9.000

CENTENNIAL STREET CH 152.22



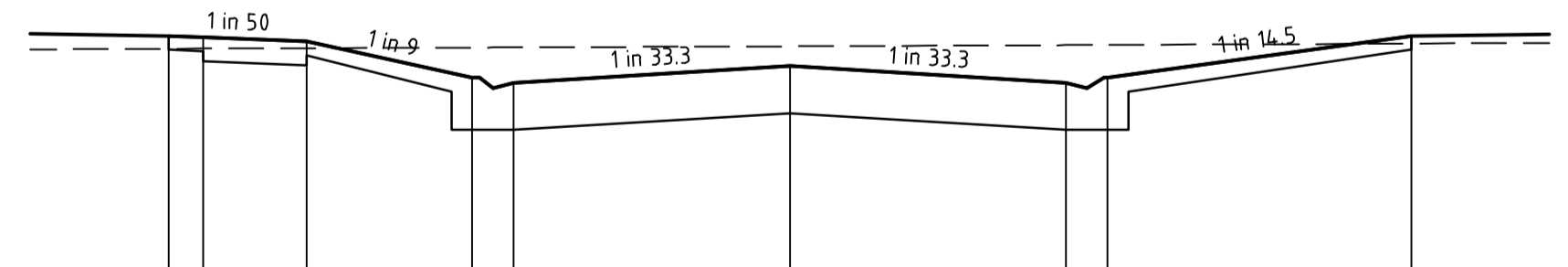
DATUM R.L. 93.0	
DESIGN SURFACE LEVEL	94.786 94.776 94.746 94.548 94.513 94.633 94.513 94.548 94.786
EXISTING SURFACE LEVEL	94.766 94.768 94.773 94.781 94.783 94.797 94.806 94.808 94.806
OFFSET	-9.000 -8.500 -7.000 -4.600 -4.000 0.000 4.000 4.600 9.000

CENTENNIAL STREET CH 226.22



DATUM R.L. 93.0	
DESIGN SURFACE LEVEL	94.652 94.649 94.640 94.434 94.324 94.444 94.324 94.359 94.745
EXISTING SURFACE LEVEL	94.706 94.707 94.708 94.711 94.712 94.716 94.721 94.723 94.729
OFFSET	-9.000 -8.500 -7.000 -4.600 -4.000 0.000 4.000 4.600 9.000

CENTENNIAL STREET CH 136.91

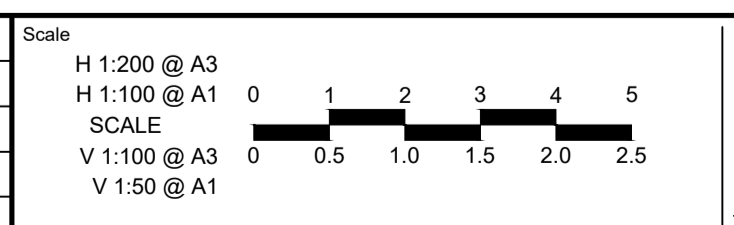


DATUM R.L. 93.0	
DESIGN SURFACE LEVEL	94.808 94.798 94.768 94.595 94.470 94.590 94.470 94.595 94.808
EXISTING SURFACE LEVEL	94.715 94.716 94.719 94.723 94.725 94.732 94.741 94.742 94.752
OFFSET	-9.000 -8.500 -7.000 -4.600 -4.000 0.000 4.000 4.600 9.000

CENTENNIAL STREET CH 208.22

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Rev	Amendments	Approved	Date
B	AMENDED AS PER COUNCIL COMMENTS	J.F	09/08/22
A	ISSUED FOR APPROVAL	J.F	21/06/22



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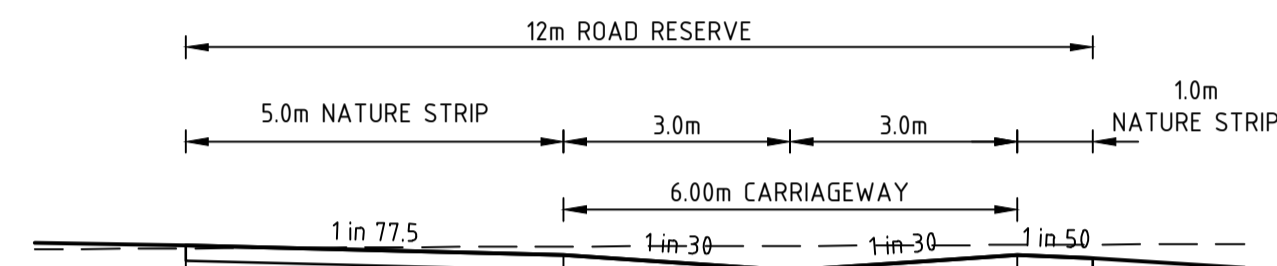
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D.SHEEHAN
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J.FEHRING

Checked
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Date
JUN 2022

**MAIDENS GREEN
STAGE 3
ROAD CROSS SECTIONS
CENTENNIAL STREET - SHEET 2 OF 2**
MURRAY RIVER COUNCIL
KIELY ROAD PROJECTS PTY LTD

PRELIMINARY Drg No **309402CC142** Rev **B**

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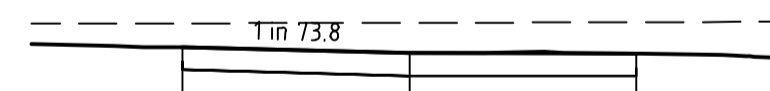
DATUM R.L. 93.0	
DESIGN SURFACE LEVEL	94.722
EXISTING SURFACE LEVEL	94.704
OFFSET	-8.000

OAKES LANE CH 19.42



DATUM R.L. 93.0	
DESIGN SURFACE LEVEL	94.702
EXISTING SURFACE LEVEL	94.704
OFFSET	-8.000

OAKES LANE CH 14.64



DATUM R.L. 93.0	
DESIGN SURFACE LEVEL	94.558
EXISTING SURFACE LEVEL	94.715
OFFSET	-3.000

OAKES LANE CH 9.30

Rev	Amendments	Approved	Date
B	AMENDED AS PER COUNCIL COMMENTS	J.F	09/08/22
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Scale

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H 1:100 @ A1
SCALE
V 1:100 @ A3
V 1:50 @ A1

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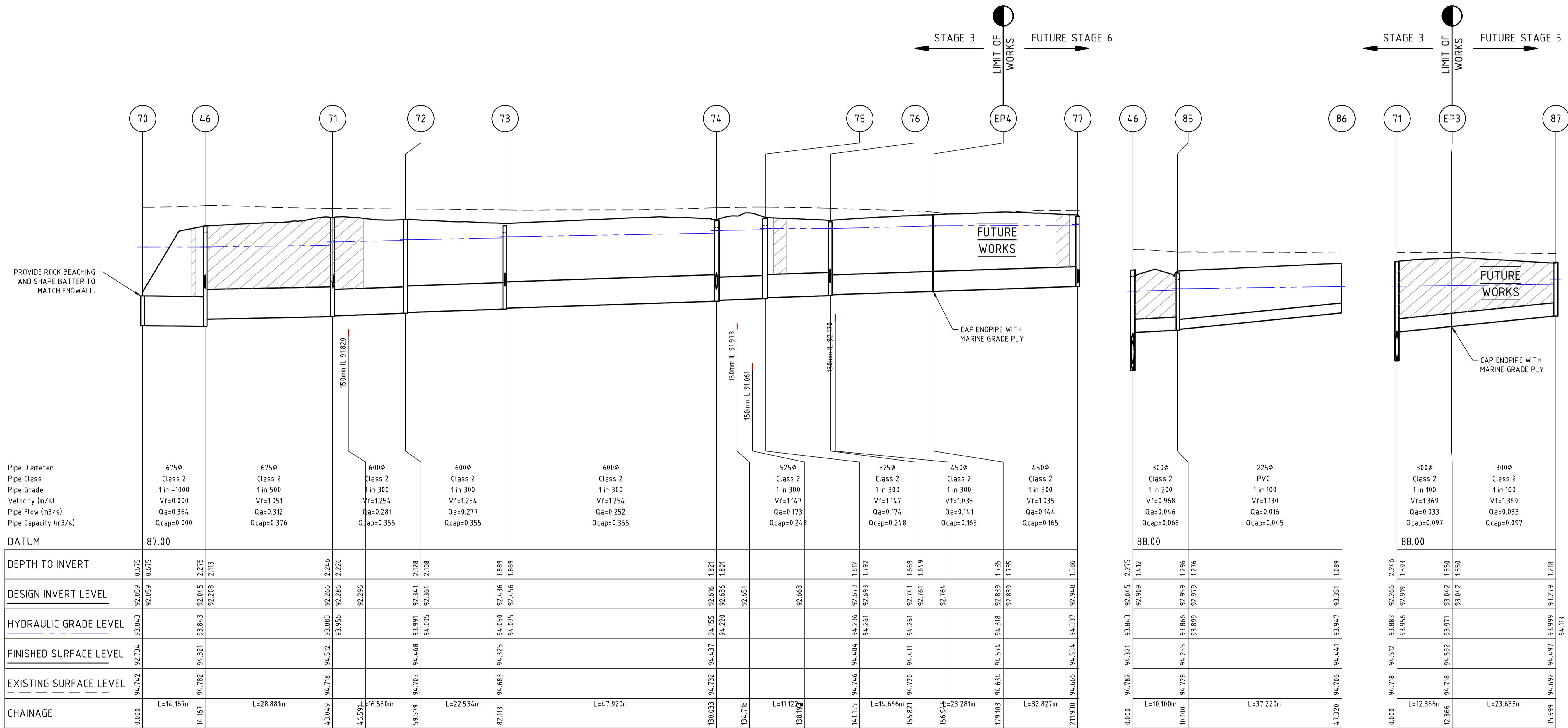
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**MAIDENS GREEN
STAGE 3
ROAD CROSS SECTIONS
OAKES LANE**
MURRAY RIVER COUNCIL
KIELY ROAD PROJECTS PTY LTD

PRELIMINARY Dwg No **309402CC143** Rev **B**

 CLASS 4 CRUSHED ROCK BACKFILL



Pipe Diameter	675 ϕ	675 ϕ	600 ϕ	600 ϕ	600 ϕ	525 ϕ	525 ϕ	450 ϕ	450 ϕ	300 ϕ	225 ϕ	300 ϕ	300 ϕ
Pipe Class	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	PVC	Class 2	Class 2
Pipe Grade	1 in 1000	1 in 500	1 in 300	1 in 300	1 in 300	1 in 300	1 in 300	1 in 300	1 in 300	1 in 200	1 in 100	1 in 100	1 in 100
Velocity (m/s)	Vf=0.000	Vf=1.051	Vf=1.254	Vf=1.254	Vf=1.254	Vf=1.147	Vf=1.147	Vf=1.035	Vf=1.035	Vf=0.968	Vf=1.130	Vf=1.369	Vf=1.369
Pipe Flow (m³/s)	Qa=0.364	Qa=0.312	Qa=0.281	Qa=0.277	Qa=0.252	Qa=0.173	Qa=0.174	Qa=0.141	Qa=0.144	Qa=0.046	Qa=0.016	Qa=0.033	Qa=0.033
Pipe Capacity (m³/s)	Qcap=0.000	Qcap=0.376	Qcap=0.355	Qcap=0.355	Qcap=0.355	Qcap=0.248	Qcap=0.248	Qcap=0.165	Qcap=0.165	Qcap=0.068	Qcap=0.045	Qcap=0.097	Qcap=0.097

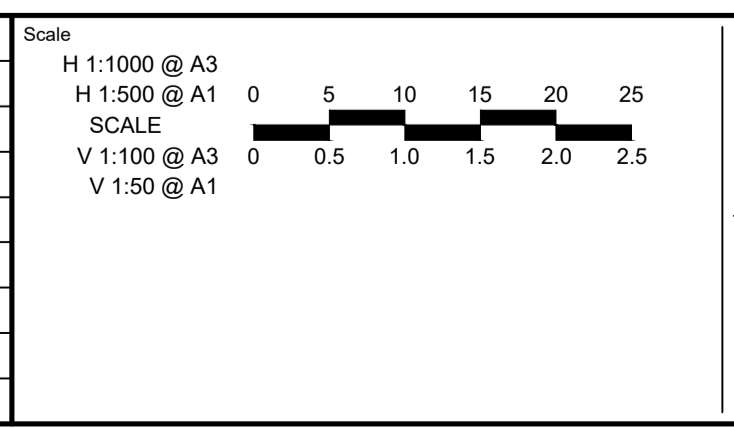
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DEPTH TO INVERT	0.675	0.675	2.246	2.246	1.889	1.889	1.801	1.801	1.669	1.649	1.735	1.735	1.586
DESIGN INVERT LEVEL	92.059	92.059	92.266	92.266	92.436	92.436	92.636	92.636	92.741	92.761	92.839	92.839	92.948
HYDRAULIC GRADE LEVEL	93.843	93.843	93.883	93.883	94.050	94.050	94.220	94.220	94.411	94.411	94.318	94.318	94.337
FINISHED SURFACE LEVEL	92.734	92.734	93.512	93.512	94.325	94.325	94.437	94.437	94.437	94.437	94.574	94.574	94.534
EXISTING SURFACE LEVEL	94.742	94.742	94.718	94.718	94.683	94.683	94.683	94.683	94.720	94.720	94.634	94.634	94.666
CHAINAGE	0.000	L=14.167m	L=28.881m	L=16.530m	L=22.534m	L=4.920m	L=11.122m	L=14.666m	L=23.281m	L=32.827m	L=10.100m	L=37.220m	L=12.366m

DATUM	88.00	
DEPTH TO INVERT	1.412	1.593
DESIGN INVERT LEVEL	92.045	92.045
HYDRAULIC GRADE LEVEL	93.843	93.843
FINISHED SURFACE LEVEL	94.321	94.321
EXISTING SURFACE LEVEL	94.782	94.782
CHAINAGE	L=10.100m	L=37.220m

DATUM	88.00	
DEPTH TO INVERT	1.550	1.718
DESIGN INVERT LEVEL	93.042	93.042
HYDRAULIC GRADE LEVEL	93.971	93.971
FINISHED SURFACE LEVEL	94.592	94.592
EXISTING SURFACE LEVEL	94.718	94.718
CHAINAGE	L=23.633m	L=23.633m

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SCALE	V 1:100 @ A3	
	V 1:50 @ A1	
Rev	B	AMENDED AS PER COUNCIL COMMENTS
	A	ISSUED FOR APPROVAL
Rev		Amendments
	J.F	09/08/22
	J.F	21/06/22
Approved	Date	



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B.IBBS

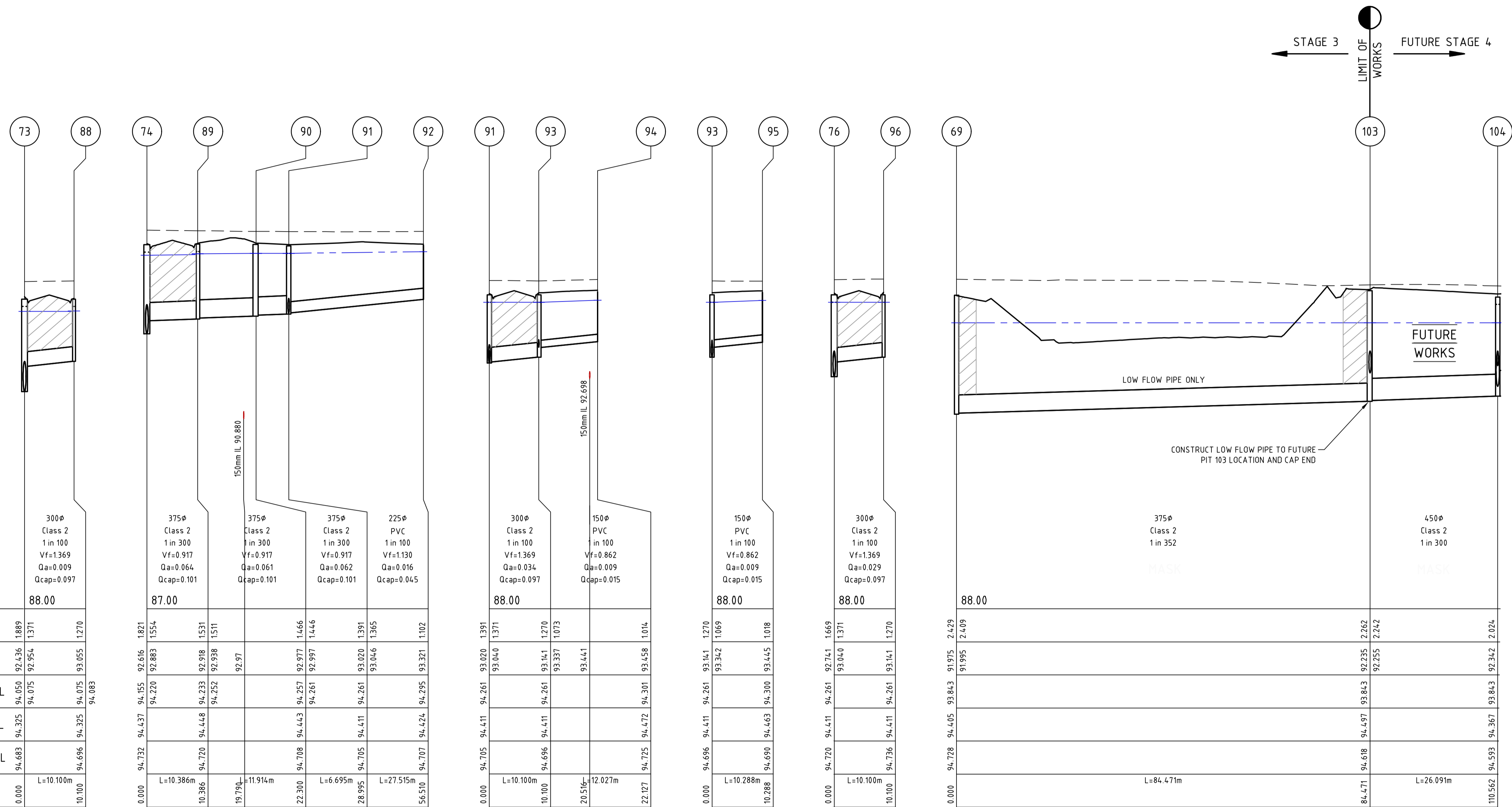
Authorised
J.FEHRING

Date
JUN 2022

MAIDENS GREEN
STAGE 3
HYDRAULICS - DRAINAGE PROFILES
SHEET 1
 MURRAY RIVER COUNCIL
 KIELY ROAD PROJECTS PTY LTD

PRELIMINARY Drg No **309402CC430** Rev **B**

 CLASS 4 CRUSHED ROCK BACKFILL



Pipe Diameter
Pipe Class
Pipe Grade
Velocity (m/s)
Pipe Flow (m³/s)
Pipe Capacity (m³/s)

DATUM	88.00
DEPTH TO INVERT	0.000 94.732 94.437 94.155 92.616 1.821
DESIGN INVERT LEVEL	94.050 92.436 1.889 94.075 92.954 1.371
HYDRAULIC GRADE LEVEL	94.075 92.954 1.371
FINISHED SURFACE LEVEL	94.325 94.325 94.075 93.055 1.270
EXISTING SURFACE LEVEL	94.683 94.325 94.075 93.055 1.270
CHAINAGE	0.000 L=10.100m 10.100 94.696 94.325 94.083

DATUM	87.00
DEPTH TO INVERT	0.000 94.732 94.437 94.155 92.616 1.821
DESIGN INVERT LEVEL	94.220 92.883 1.554
HYDRAULIC GRADE LEVEL	94.220 92.883 1.554
FINISHED SURFACE LEVEL	94.448 94.233 92.918 1.531
EXISTING SURFACE LEVEL	94.720 94.448 94.233 92.918 1.531
CHAINAGE	10.386 19.790 L=11.914m 22.300 94.708 94.443 94.257 92.977 1.466

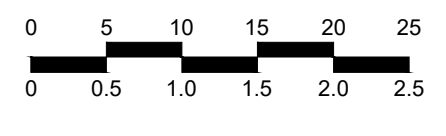
DATUM	88.00
DEPTH TO INVERT	0.000 94.705 94.411 94.261 93.020 1.391
DESIGN INVERT LEVEL	93.040 1.371
HYDRAULIC GRADE LEVEL	93.040 1.371
FINISHED SURFACE LEVEL	94.411 94.261 93.141 1.270
EXISTING SURFACE LEVEL	94.696 94.411 94.261 93.337 1.073
CHAINAGE	10.100 20.516 L=12.027m 22.127 94.725 94.472 94.301 93.458 1.014

DATUM	88.00
DEPTH TO INVERT	0.000 94.696 94.411 94.261 93.141 1.270
DESIGN INVERT LEVEL	93.342 1.069
HYDRAULIC GRADE LEVEL	93.342 1.069
FINISHED SURFACE LEVEL	94.411 94.261 93.141 1.270
EXISTING SURFACE LEVEL	94.690 94.463 94.300 93.445 1.018
CHAINAGE	10.288 L=10.288m


DATUM	88.00
DEPTH TO INVERT	0.000 94.720 94.411 94.261 92.741 1.669
DESIGN INVERT LEVEL	93.040 1.371
HYDRAULIC GRADE LEVEL	93.040 1.371
FINISHED SURFACE LEVEL	94.411 94.261 93.141 1.270
EXISTING SURFACE LEVEL	94.736 94.411 94.261 93.141 1.270
CHAINAGE	10.100 L=10.100m

DATUM	88.00
DEPTH TO INVERT	0.000 94.728 94.405 93.843 91.975 2.429
DESIGN INVERT LEVEL	91.995 2.409
HYDRAULIC GRADE LEVEL	91.995 2.409
FINISHED SURFACE LEVEL	94.497 93.843 92.235 2.262
EXISTING SURFACE LEVEL	94.618 94.497 93.843 92.235 2.262
CHAINAGE	84.471 94.471 94.618 94.497 93.843 92.255 2.242

file name: 309402CC431.dwg; layout name: CCI-31; plotted by: Darnest Sheehan; file location: \\spire\beanda\data\309402\VIC\A\CAD\plot_data; 11/08/2022 2:06 PM; Sheet 17 of 22; Sheets

Scale	H 1:1000 @ A3 H 1:500 @ A1 SCALE V 1:100 @ A3 V 1:50 @ A1
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Rev	B AMENDED AS PER COUNCIL COMMENTS J.F 09/08/22
Rev	A ISSUED FOR APPROVAL J.F 21/06/22
Rev	Amendments Approved Date

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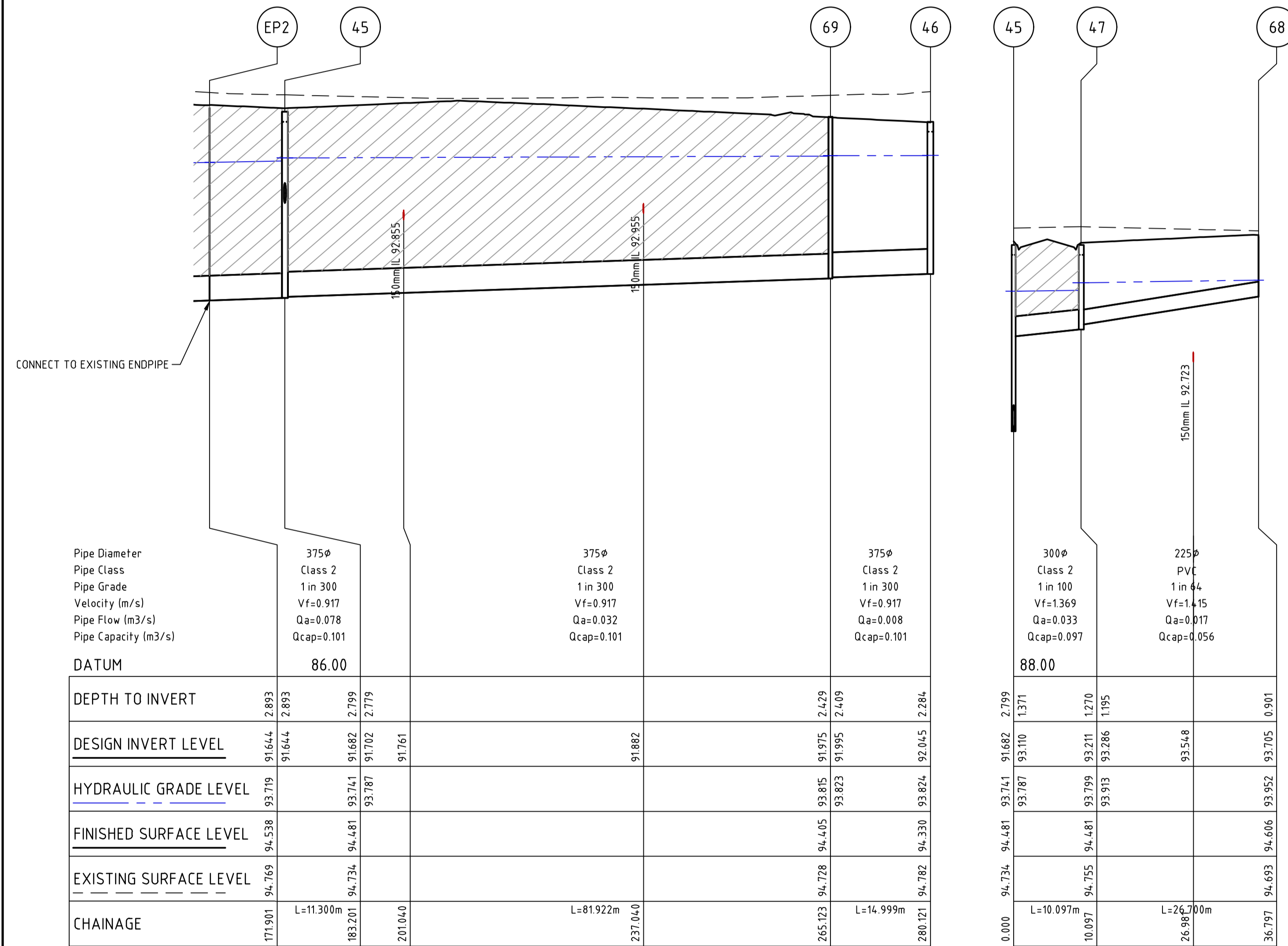
MAIDENS GREEN
STAGE 3
HYDRAULICS - DRAINAGE PROFILES
SHEET 2
MURRAY RIVER COUNCIL
KIELY ROAD PROJECTS PTY LTD

PRELIMINARY Drg No **309402CC431** Rev **B**

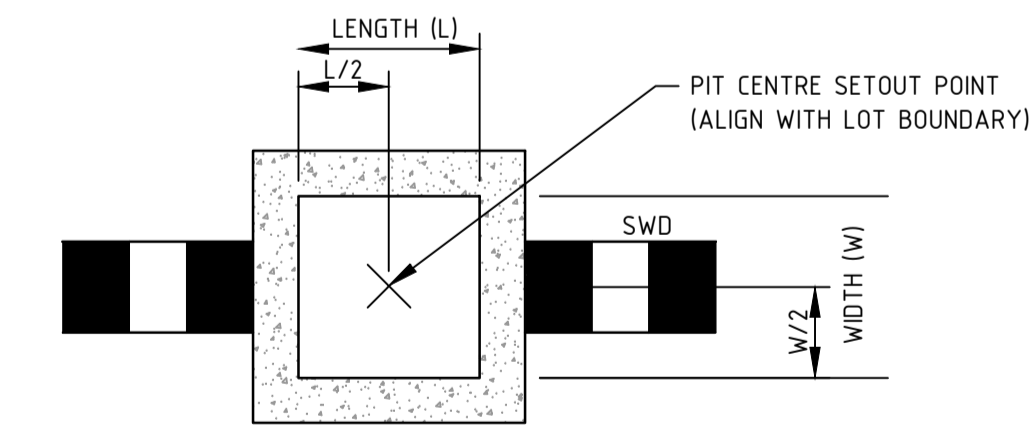


PIT SETOUT CO-ORDINATES

NAME	POINT	EASTING	NORTHING
68	CENTRE OF BASE	299133.488	6002764.941
69	CENTRE OF BASE	299150.277	6002818.538
70	CENTRE OF BASE	299165.990	6002831.750
71	CENTRE OF BASE	299155.004	6002862.020
72	CENTRE OF BASE	299139.944	6002869.269
74	CENTRE OF BASE	299069.997	6002877.706
75	CENTRE OF BASE	299062.904	6002885.873
EP4	END OF PIPE	299066.453	6002923.628
86	CENTRE OF BASE	299137.390	6002797.710
EP3	END OF PIPE	299167.283	6002860.994
89	CENTRE OF BASE	299071.154	6002867.091
90	CENTRE OF BASE	299062.235	6002859.358
92	CENTRE OF BASE	299059.247	6002825.277
94	CENTRE OF BASE	299052.180	6002865.273
95	CENTRE OF BASE	299050.948	6002842.994
103	CENTRE OF BASE	299233.688	6002808.426



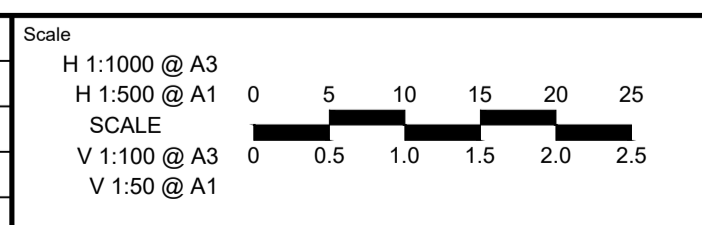
PIT NAME	TYPE	INTERNAL		INLET		OUTLET		PIT		REMARKS
		WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
EP2	ENDPIPE			375	91.644	375	91.644	94.538	2.893	CONNECT TO EXISTING ENDDPIPE
45	SIDE ENTRY PIT	600	900	375	91.702	375	91.682	94.481	2.799	AS PER IDM SD 440
69	JUNCTION PIT	900	600	375	91.995	375	91.975	94.405	2.429	AS PER IDM SD 410
46	SIDE ENTRY PIT	900	900	375	92.208	675	92.045	94.321	2.275	AS PER IDM SD 440, HAUNCHED TO 900X600
47	SIDE ENTRY PIT	600	900	225	93.286	300	93.211	94.481	1.270	AS PER IDM SD 440
68	ENDPIPE			225	93.705	225	93.705	94.606	0.901	INSPECTION OPENING AS PER IDM SD 515
70	HEADWALL	900	900	675	92.059			92.734	0.675	ENDWALL TO SUIT 675Ø PIPE
71	JUNCTION PIT	900	900	600	92.286	675	92.266	94.512	2.246	AS PER IDM SD 410, HAUNCHED TO 900X600
72	JUNCTION PIT	1200	900	600	92.361	600	92.341	94.468	2.128	AS PER IDM SD 440, HAUNCHED TO 900X600
73	SIDE ENTRY PIT	1200	900	600	92.456	600	92.436	94.325	1.889	AS PER IDM SD 440, HAUNCHED TO 900X600
74	SIDE ENTRY PIT	1200	900	525	92.636	600	92.616	94.437	1.821	AS PER IDM SD 440, HAUNCHED TO 900X600
75	SIDE ENTRY PIT	1200	900	525	92.693	525	92.673	94.484	1.812	AS PER IDM SD 440, HAUNCHED TO 900X600
76	SIDE ENTRY PIT	1200	900	450	92.761	525	92.741	94.411	1.669	AS PER IDM SD 440, HAUNCHED TO 900X600
EP4	ENDPIPE			450	92.839	450	92.839	94.574	1.735	CAP END WITH MARINE GRADE PLY
85	SIDE ENTRY PIT	600	900	225	92.979	300	92.959	94.255	1.296	AS PER IDM SD 440
86	ENDPIPE					225	93.351	94.441	1.089	INSPECTION OPENING AS PER IDM SD 515
EP3	ENDPIPE			300	93.042	300	93.042	94.592	1.550	CAP END WITH MARINE GRADE PLY
88	SIDE ENTRY PIT	600	900	300	93.055	300	93.055	94.325	1.270	AS PER IDM SD 440
89	SIDE ENTRY PIT	600	900	375	92.938	375	92.918	94.448	1.531	AS PER IDM SD 440
90	JUNCTION PIT	900	900	375	92.997	375	92.977	94.443	1.466	AS PER IDM SD 410, HAUNCHED TO 900X600
91	SIDE ENTRY PIT	900	900	225	93.046	375	93.020	94.411	1.391	AS PER IDM SD 440, HAUNCHED TO 900X600
92	ENDPIPE					225	93.321	94.424	1.102	INSPECTION OPENING AS PER IDM SD 515
93	SIDE ENTRY PIT	600	900	150	93.337	300	93.141	94.411	1.270	AS PER IDM SD 440
94	ENDPIPE					150	93.458	94.472	1.014	INSPECTION OPENING AS PER IDM SD 515
95	ENDPIPE					150	93.445	94.463	1.018	INSPECTION OPENING AS PER IDM SD 515
96	SIDE ENTRY PIT	600	900	300	93.141	300	93.141	94.411	1.270	AS PER IDM SD 440
103	JUNCTION PIT	1200	900	450	92.255	375	92.235	94.497	2.262	CAP END OF PIPE WITH MARINE GRADE PLY. PIT TO BE CONSTRUCTED IN STAGE 4



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

file name: 309402CC432.dwg; layout name: CCI-32; plotted by: Derek Sheehan; file location: \\spire\beamdata\data\309402\309402\Civil\ACAD; plot date: 11/09/2022; 2:06 PM; Sheet 18 of 22; Sheets

Rev	Amendments	Approved	Date
B	AMENDED AS PER COUNCIL COMMENTS	J.F	09/08/22
A	ISSUED FOR APPROVAL	J.F	21/06/22



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16 BRIDGE STREET BENDIGO

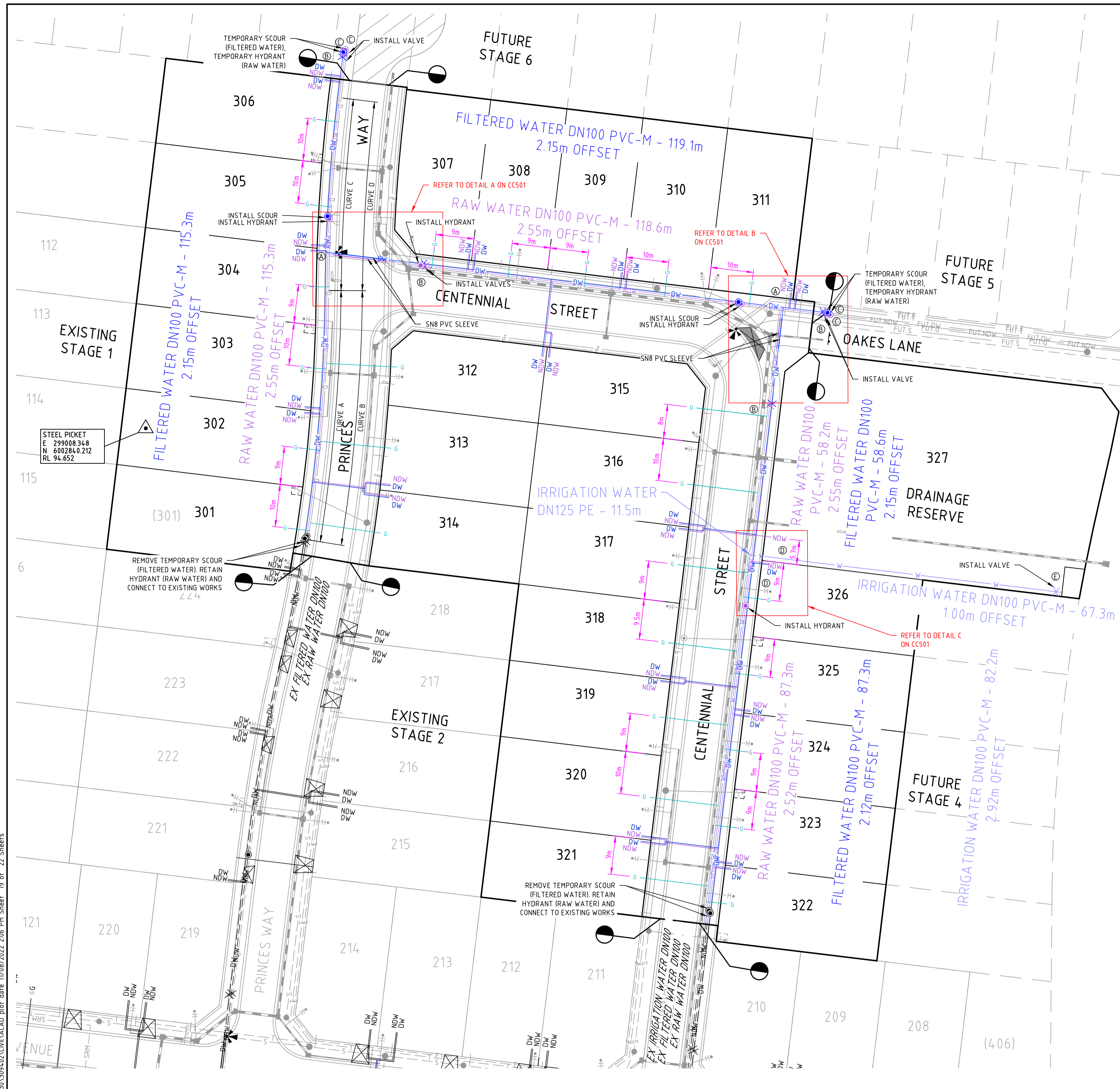
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Authorised J.FEHRING	Date JUN 2022

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

PRELIMINARY Drg No **309402CC432** Rev **B**



	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	IRRIGATION WATER
SIZE (mm)	TYPE	CLASS	LENGTH (m)	LENGTH (m)	LENGTH (m)
125	PE AS/NZS 4441	SERIES 1 PN12	-	-	115
100	PVC-M AS/NZS 4441	SERIES 1 PN12	380.3	379.4	149.5

TABLE 2: PIPE MATERIAL SCHEDULE

MATERIAL	REFERENCE
PVC-M	WSA-PS-209
PE (RETIC & SUBMAIN)	WSA-PS-207
PE (PROPERTY SERVICE)	WSA-PS-215

TABLE 3: HYDRANT & WASHOUT SCHEDULE

MAIN SIZE	FITTING TYPE	LOCATION	STREET	LOCATION
100	SCOUR - FW	IN LINE	PRINCES WAY	7.6m N OF SBL LOT 305
100	HYDRANT - RW	IN LINE	PRINCES WAY	7.0m N OF SBL LOT 305
100	SCOUR - FW	END OF LINE	PRINCES WAY	6.3m N OF NBL LOT 306
100	HYDRANT - RW	END OF LINE	PRINCES WAY	7.0m N OF NBL LOT 306
100	HYDRANT - RW	IN LINE	CENTENNIAL STREET	7.0m N OF SBL LOT 326
100	SCOUR - FW	IN LINE	CENTENNIAL STREET	7.4m E OF WBL LOT 311
100	HYDRANT - RW	IN LINE	CENTENNIAL STREET	8.0m E OF WBL LOT 311
100	HYDRANT - RW	IN LINE	CENTENNIAL STREET	1.7m E OF SPLAY LOT 307
100	SCOUR - FW	END OF LINE	OAKES LANE	8.4m E OF EBL LOT 311
100	HYDRANT - RW	END OF LINE	OAKES LANE	9.0m E OF EBL LOT 311

TABLE 4: CURVED PIPE AND DEFLECTION SCHEDULE

LOCATION	METHOD	RADIUS (m)	TOTAL PIPE LENGTH	PIPE LENGTHS
CURVE A	PVC SOC DEFLECTION	393.15	58.6	10
CURVE B	PVC SOC DEFLECTION	393.55	58.7	10
CURVE C	PVC SOC DEFLECTION	406.85	45.4	8
CURVE D	PVC SOC DEFLECTION	406.45	45.3	8

TABLE 5: SERVICE ALIGNMENT SCHEDULE (SEE DRG NO. 309402CC001 SERVICE OFFSET TABLE)

TABLE 6: THRUST RESTRAINT SCHEDULE

LOCATION	TYPE	THRUST	AHBP (kPa) USED	THRUST AREA (m ²)	QUANTITY
A	IN LINE	2 X DN100 TEE	50	0.46	2
B	IN LINE	2 X DN100 VALVE	50	0.60	4
C	PLAIN	DN100 END	50	0.23	4
D	PLAIN	DN125 PE SHRINKAGE	50	0.43	2
E	IN LINE	DN100 VALVE	50	0.30	1

TABLE 7: VERTICAL CLEARANCES

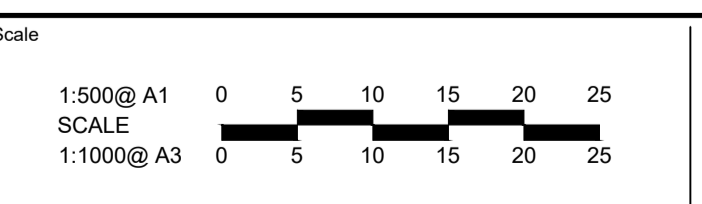
EXISTING OR PROPOSED SERVICE	MINIMUM VERTICAL CLEARANCE (mm)
WATER MAINS ≤ DN375	150
WATER MAINS > DN375	300
GAS MAINS	150
TELECO CONDUITS AND CABLES	150
ELECTRICITY CONDUITS AND CABLES	225
STORMWATER DRAIN & PITS	150
SEWERS - GRAVITY	500
SEWERS - PRESSURE & VACUUM	500

- VERTICAL CLEARANCE BETWEEN WATER MAINS SHALL DEPEND ON THE LARGER MAIN DIAMETER.
 - WATER MAINS SHALL CROSS OVER SEWERS AND DRAINS UNLESS SHOWN OTHERWISE.
 - MAINTAIN ADDITIONAL CLEARANCE FROM HIGH VOLTAGE ELECTRICAL CABLES TO ALLOW FOR A PROTECTIVE BARRIER AND MARKING.

- LEGEND
- (A) THRUST RESTRAINT - SEE TABLE 6 FOR DETAILS
 - G GAS CONDUIT
 - DW SERVICE CONDUIT
 - X X X VALVE
 - HYDRANT: BELOW GROUND.
 - ▲ TAPER
 - ⊙ REMOVE FITTING
 - NDW RAW WATER MAIN
 - DW FILTERED WATER MAIN
 - IW IRRIGATION WATER MAIN
 - DW EXISTING WATER MAIN

file name: 309402CC500.dwg; layout name: CC500; plotted by: Darreel Sheehnan; plot date: 11/08/2022; 2:06 PM; Sheet 19 of 22; Sheets

Rev	Amendments	Approved	Date
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A	ISSUED FOR APPROVAL	J.F	21/06/22



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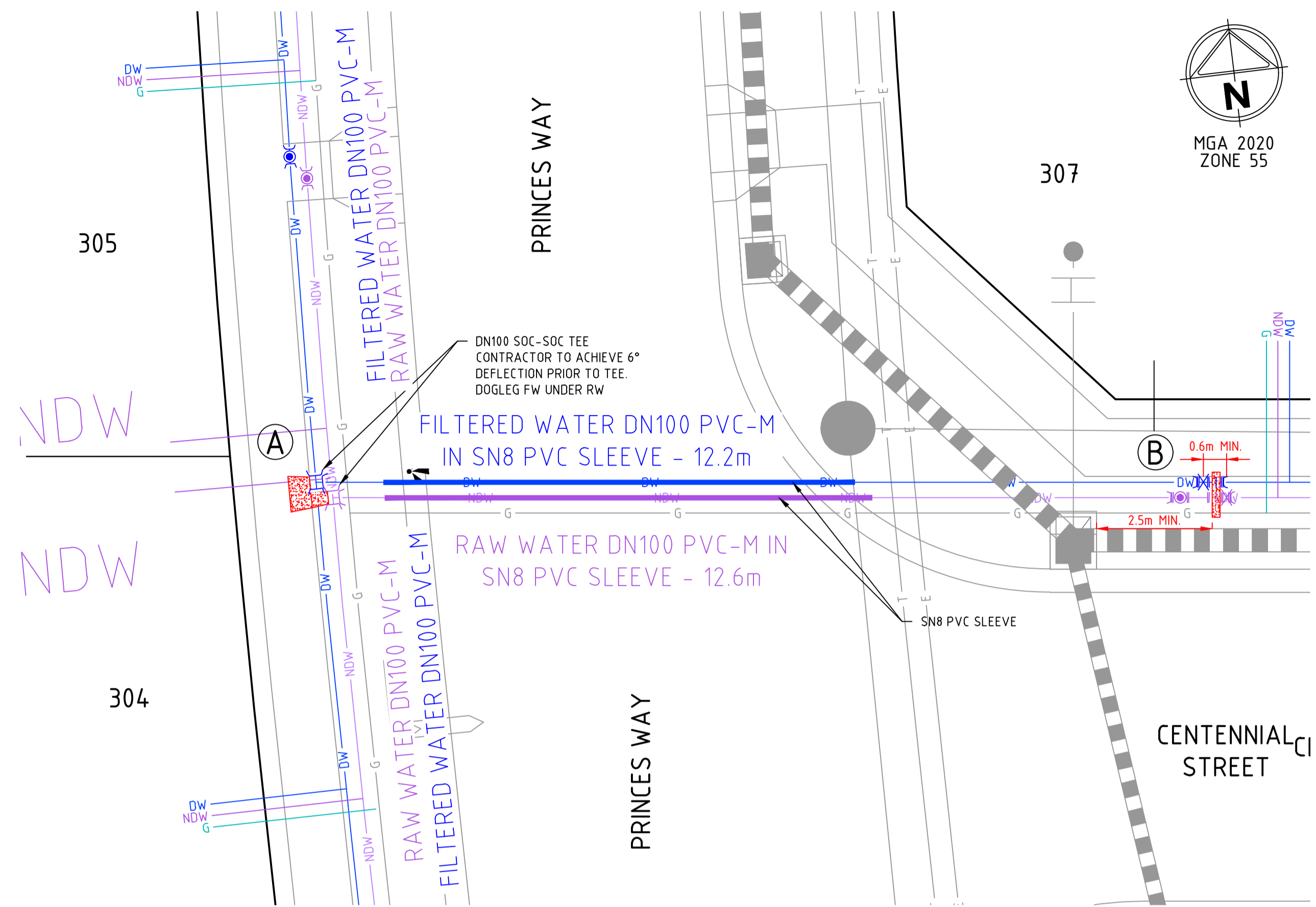
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Designed
D.SHEEHAN
 Authorised
J.FEHRING
 Checked
B.IBBS
 Date
JUN 2022

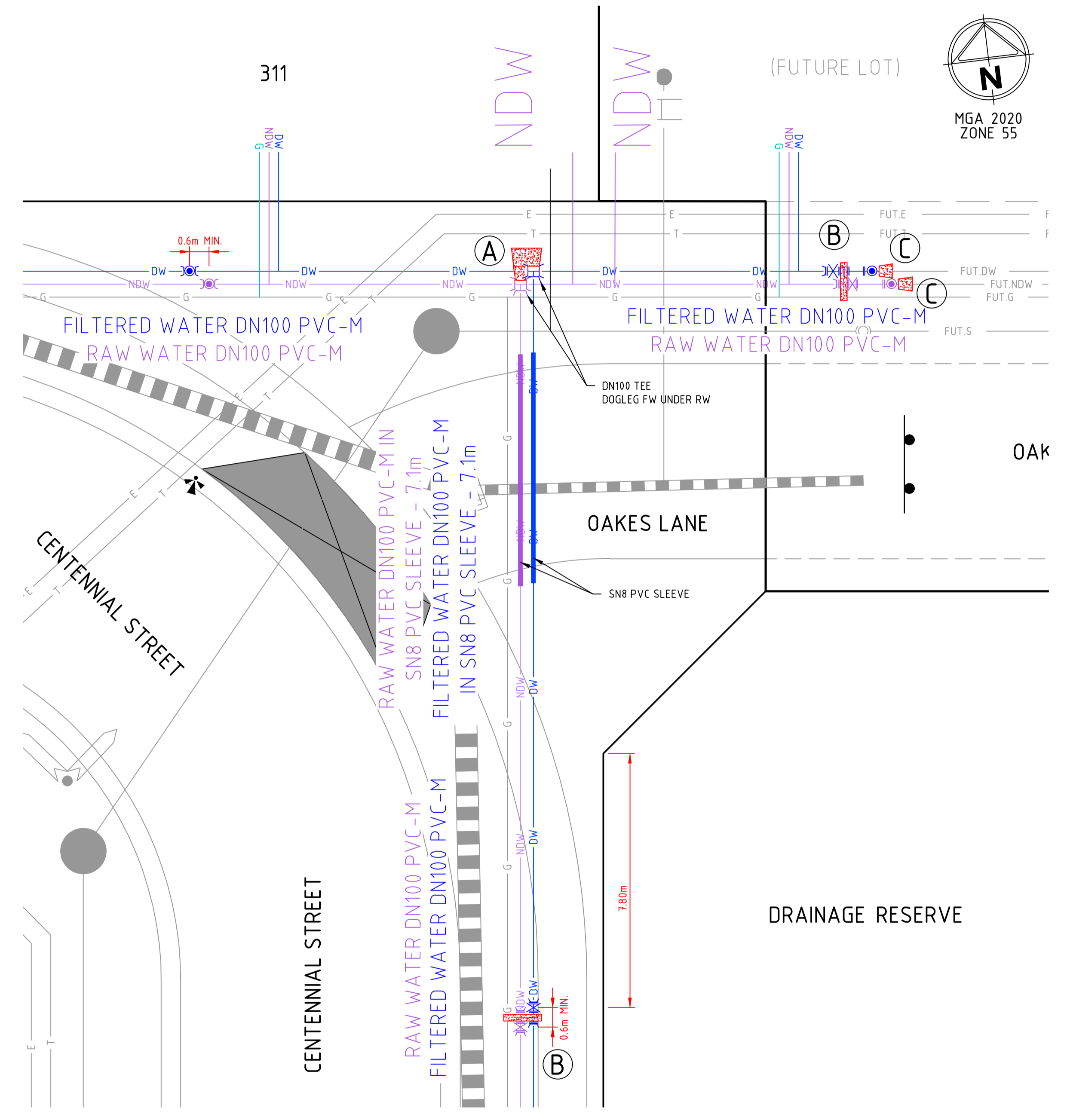
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 STAGE 3
 HYDRAULICS - SEWER & WATER
 WATER LAYOUT PLAN
 MURRAY RIVER COUNCIL
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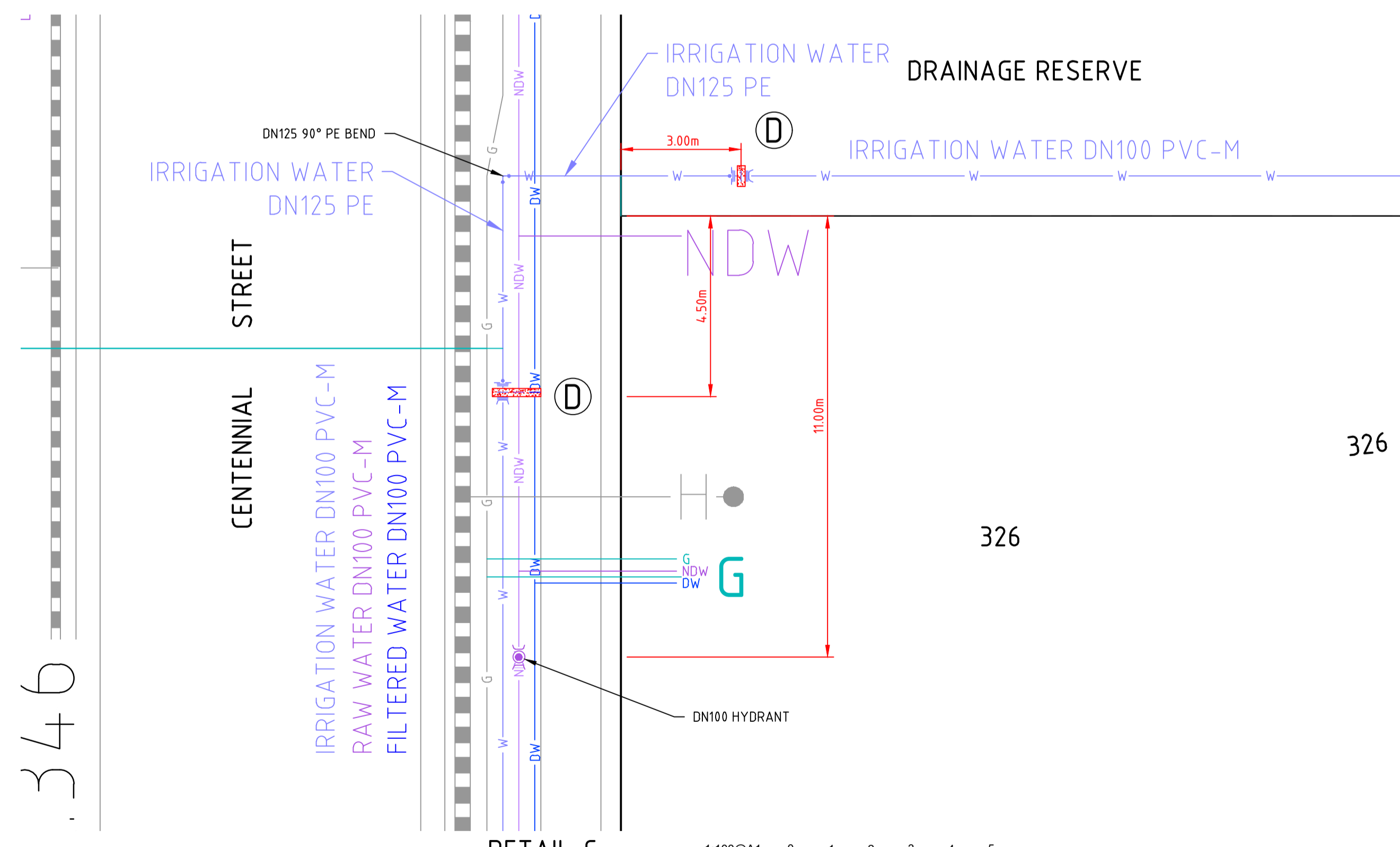
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DETAIL A
SCALE: 1:100



DETAIL B
SCALE: 1:100



DETAIL C
SCALE: 1:100

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Scale
AS SHOWN

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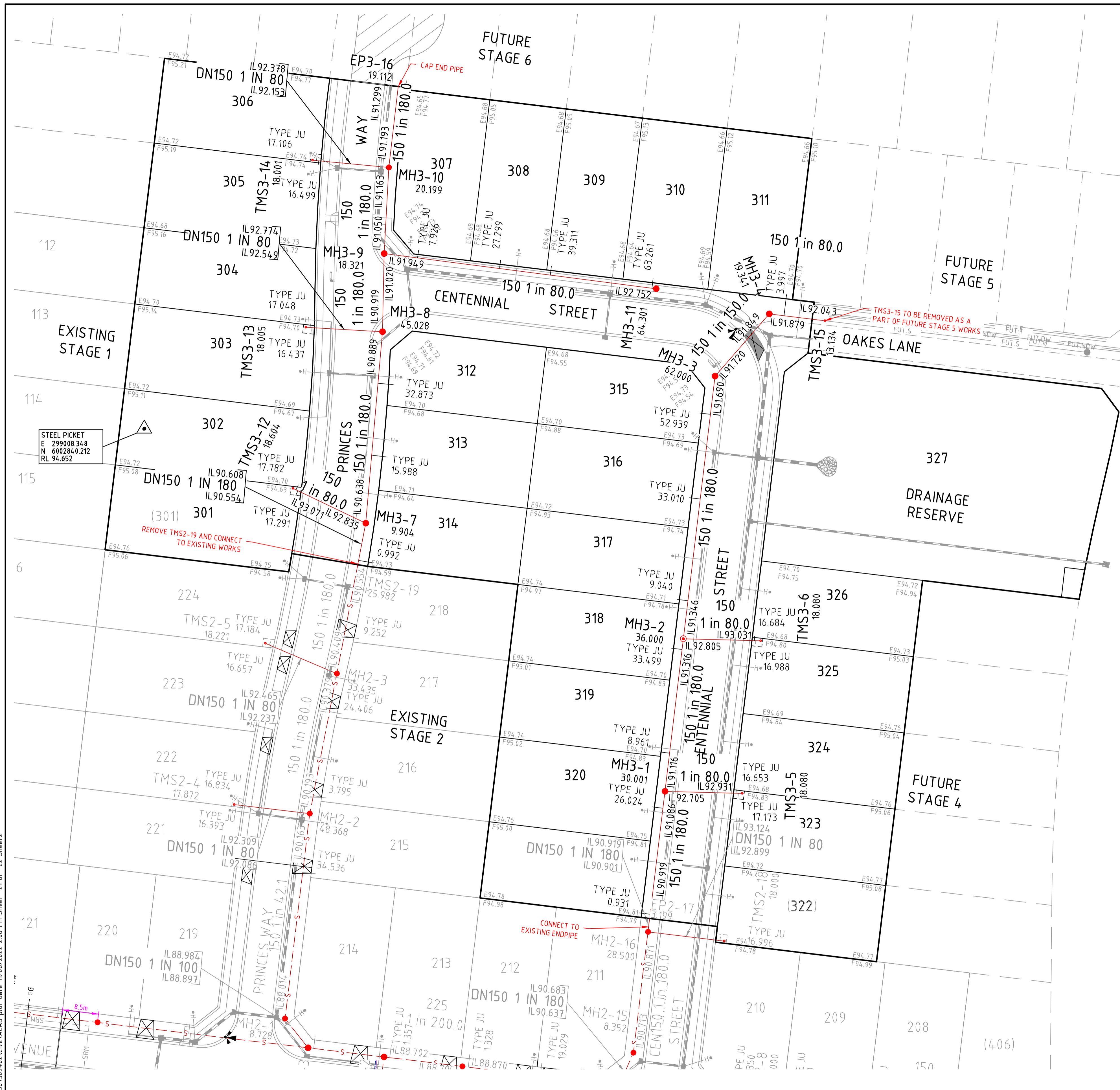
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STAGE 3
 HYDRAULICS - SEWER & WATER
 WATER DETAILS
 MURRAY RIVER COUNCIL
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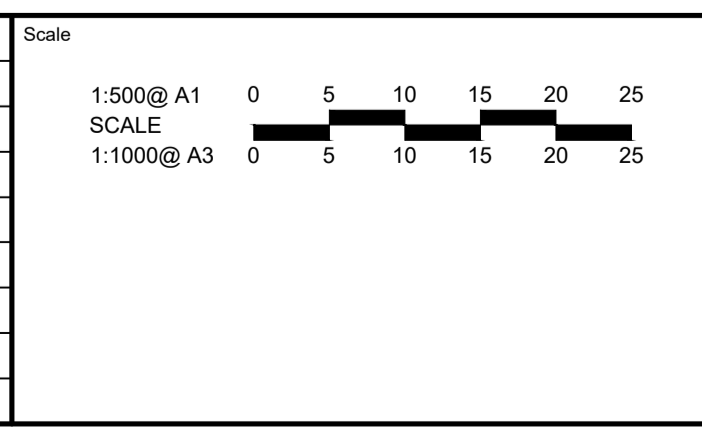


SEWER STRUCTURE
SETOUT TABLE

PIT	COORDINATES	
	EASTING	NORTHING
MH3-1	299130.354	6002755.247
MH3-2	299134.665	6002790.988
MH3-3	299142.090	6002852.541
MH3-4	299154.794	6002867.125
TMS3-5	299148.428	6002754.779
TMS3-6	299152.739	6002790.520
MH3-7	299060.246	6002818.094
MH3-8	299064.168	6002862.968
MH3-9	299064.542	6002881.285
MH3-10	299065.677	6002901.452
MH3-11	299128.313	6002873.041
TMS3-12	299043.196	6002826.265
TMS3-13	299046.193	6002864.005
TMS3-14	299047.758	6002903.173
TMS3-15	299167.833	6002865.552
EP3-16	299067.878	6002920.437

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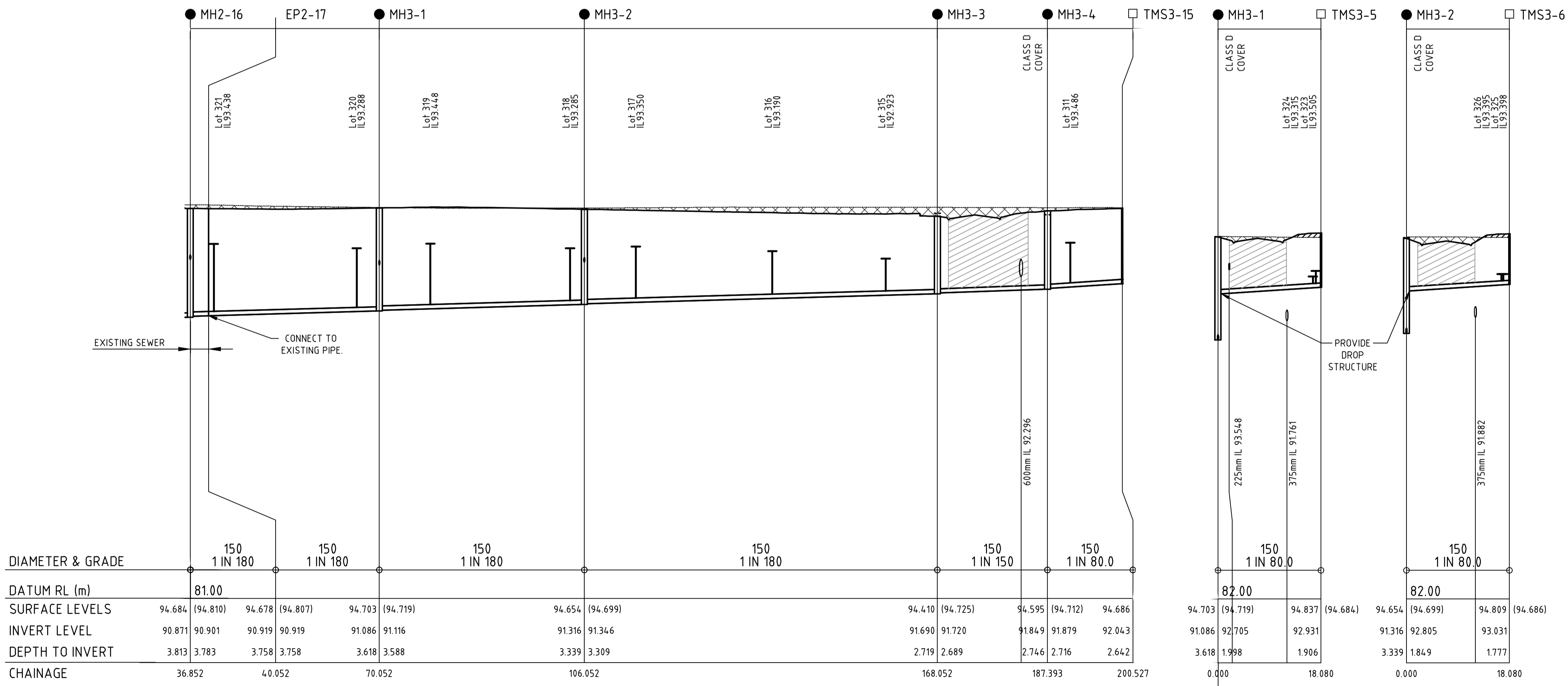
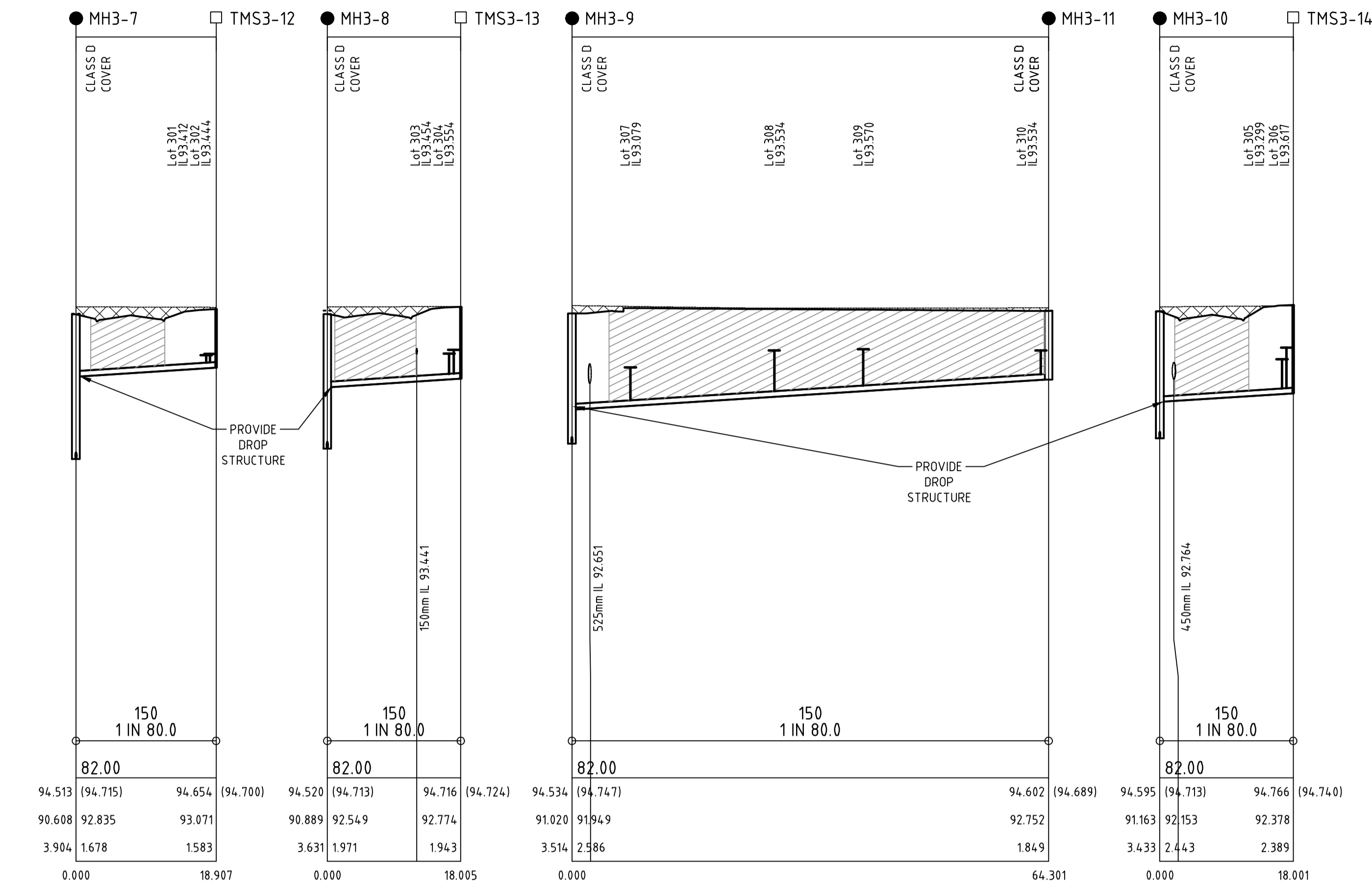
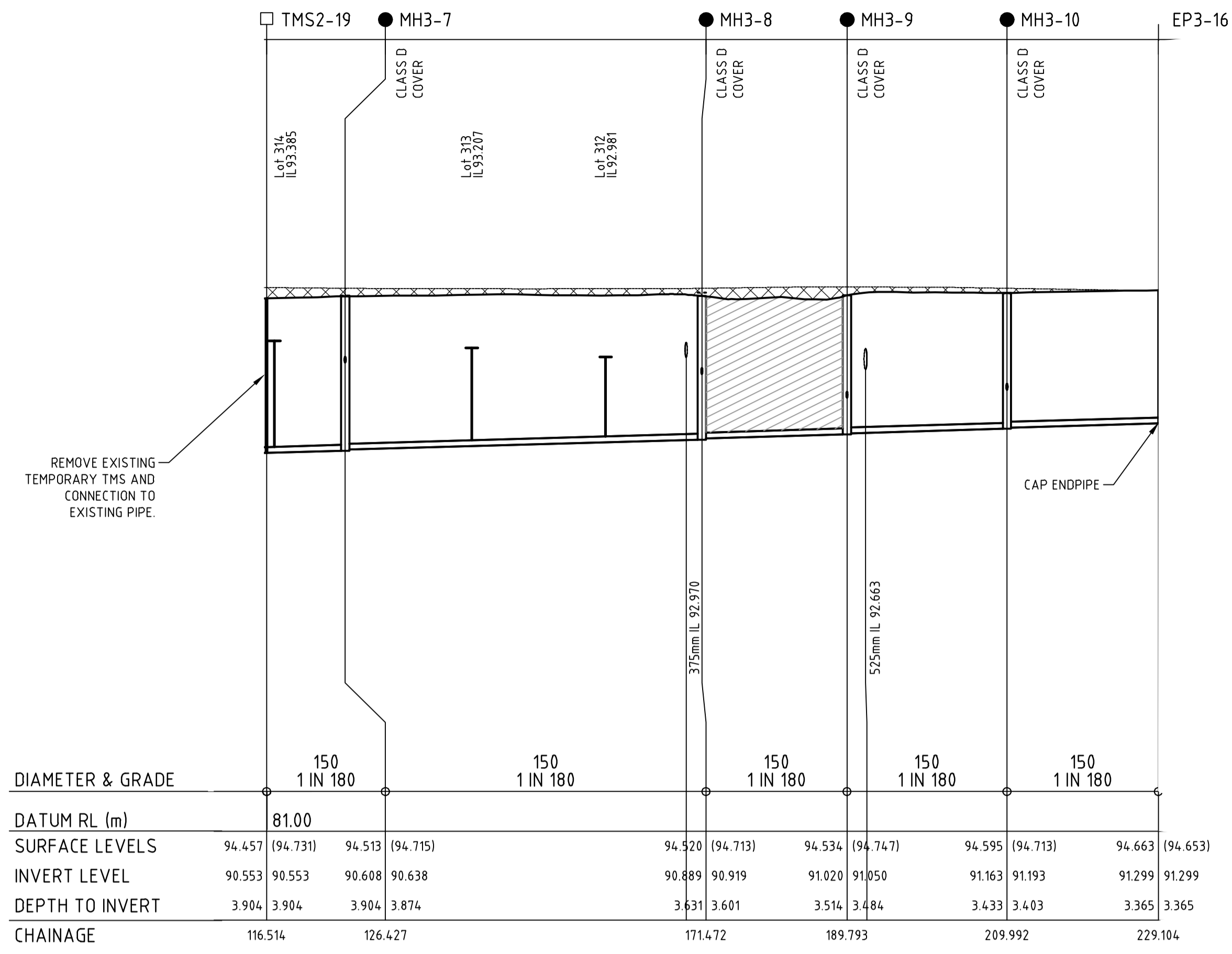
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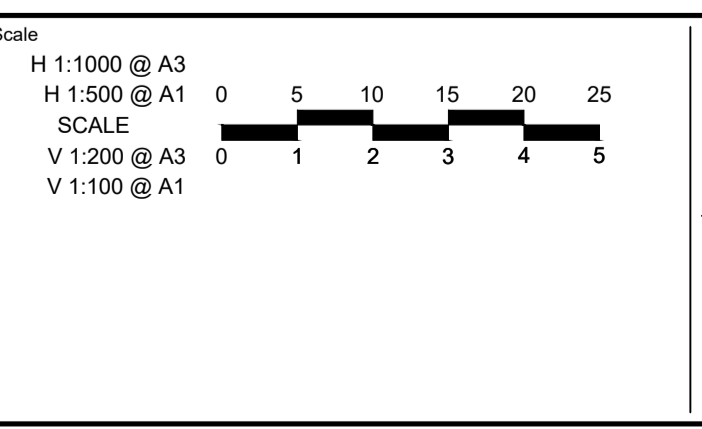
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LEGEND

- PROPOSED CUT
- PROPOSED FILL
- CRUSHED ROCK BACKFILL (CRB)

Scale	H 1:1000 @ A3		
	H 1:500 @ A1		
SCALE	V 1:200 @ A3		
	V 1:100 @ A1		
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