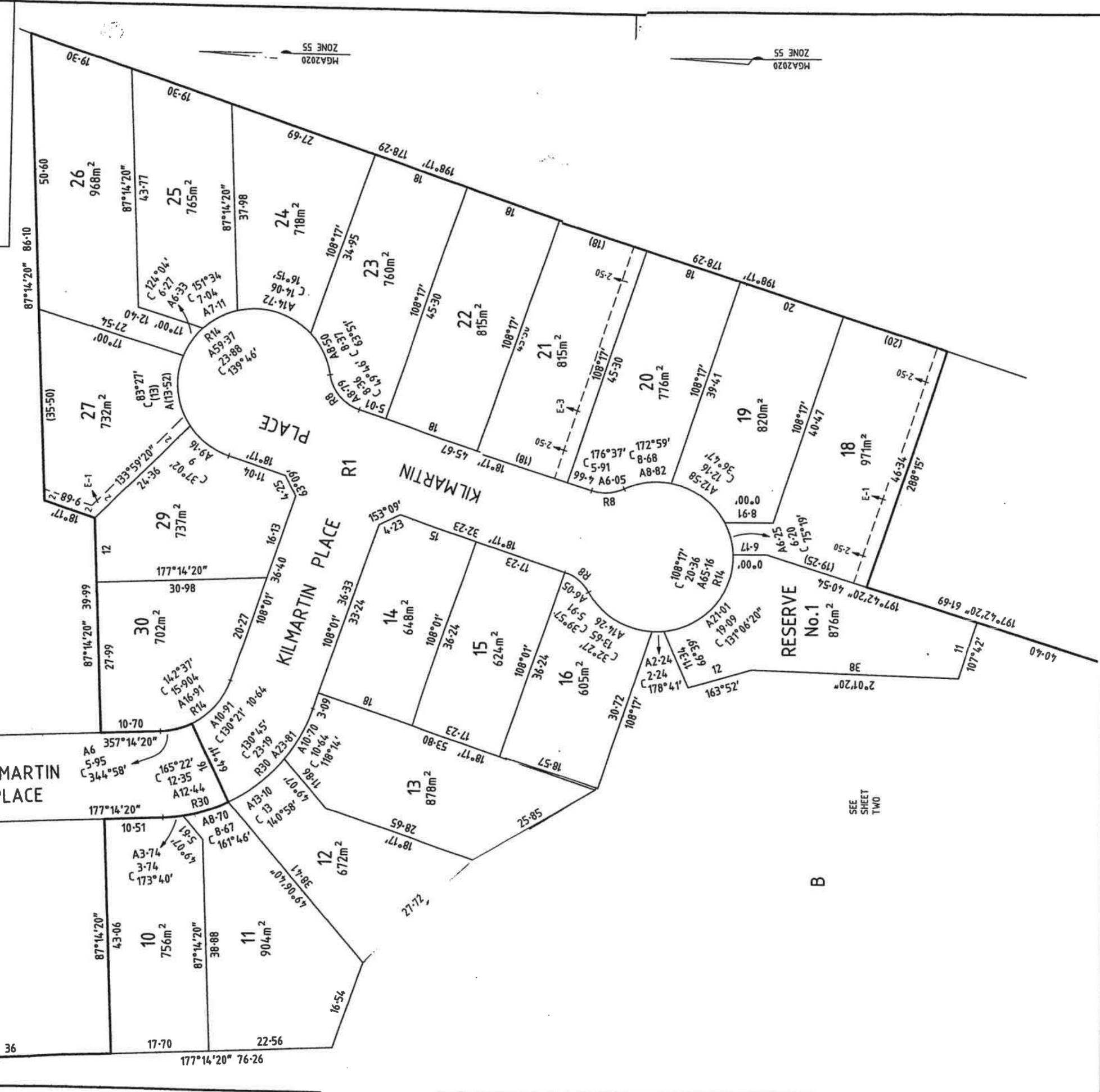


PS 822832T

SHEET TWO

SEE



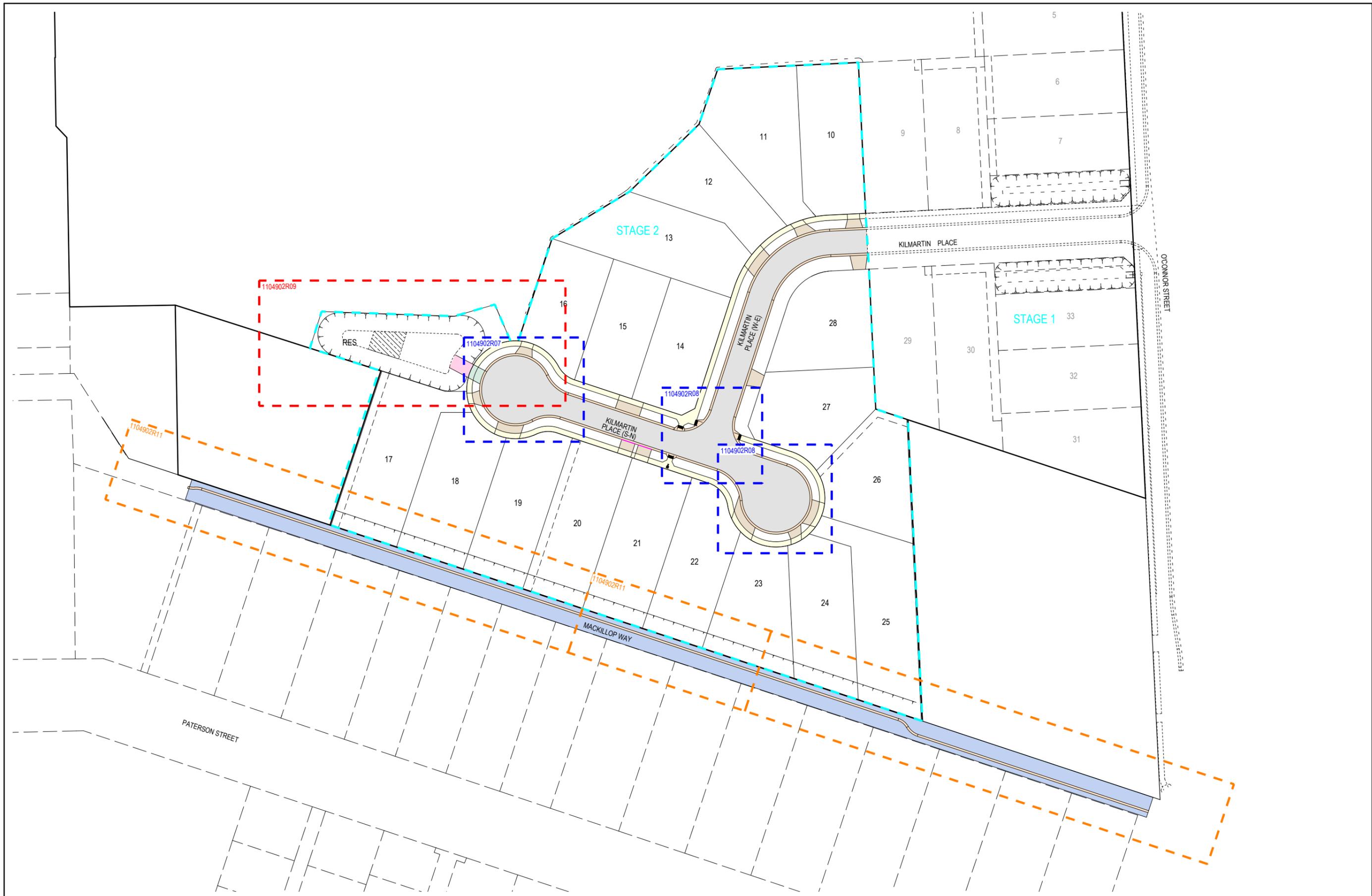
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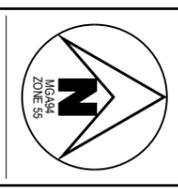
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		LENGTHS ARE IN METRES			
ORIGINAL SHEET SIZE	AS				
SURVEYORS REF No.	1104902	07			
IVERI PLOTTED	11-10-2024				
P.J.L.					Sheet 4

CHRISTOPHER SCOTT FRANKS

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REV	DES	DWG	CHK	AUTH	DATE
I	-	JB	-	JB	10/06/25
H	-	JB	-	JB	26/02/25
G	-	JB	-	JB	25/02/25
F	-	JB	-	AR	28/11/24
E	JB	JB	AR	AR	16/07/24
D	JB	JB	AR	AR	04/03/24
C	JB	JB	AR	AR	04/03/24



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SCALE 1:1,000
 LENGTHS ARE IN METRES - PAPER SIZE A3

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19 LOT RESIDENTIAL DEVELOPMENT
TOCUMWAL RD, NUMURKAH
 OVERALL DEVELOPMENT PLAN
 MOIRA SHIRE COUNCIL REF: 5/2022/73/2
 ST. JOHN THE BAPTIST PARISH NUMURKAH
 DWG STATUS: PROJECT & DWG No: **FOR CONSTRUCTION** 1104902R02 / 23

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- GENERAL DESIGN DETAIL PLAN NOTES**
 APPLIES IN ALL CASES UNLESS STATED OTHERWISE
- KERB TYPES
 - FRONTING LOTS = MODIFIED SM2 (IDM SD 100 - SM2-M)
 - ALL KERB RADII ARE TO L&K
 - ALL DRIVEWAYS AS PER IDM SD 240 & 245
 - ALL FOOTPATHS CONCRETE & 1.5m WIDE @ 0.05m O/S AS PER IDM SD 205
 - ALL SHARED PATHS CONCRETE & 2.5m WIDE @ 0.10m O/S BL AS PER IDM SD 205
 - ALL EASEMENT DRAINAGE PIPES & PITS ARE 1.0m O/S BL & SIDE BOUNDARIES
 - LEVEL 1 SUPERVISION REQUIRED FOR LOT EARTHWORKS UNLESS SPECIFIED OTHERWISE - REFER GENERAL NOTES
 - ALL LOTS TO HAVE CATCH DRAINS ALONG SIDE & REAR BOUNDARIES
 - CONTOUR INTERVAL 0.2m @ 1:1000 & 0.05m @ 1:200 (1:250(A3) WHERE SHOWN)
 - STREET TREE LOCATIONS SHOWN ARE INDICATIVE ONLY

WARNING
 BEWARE OF UNDERGROUND SERVICES
 THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



REV	DESCRIPTION	DES	CHK	AUTH	DATE
I	CHANGES TO LOT 20-21 DRIVEWAY	-	JB	JB	10/06/25
H	CHANGES TO LINE 1B-1C	-	JB	JB	26/02/25
G	CHANGES TO LINE 1A-1C	-	JB	JB	25/02/25
F	ISSUED FOR CONSTRUCTION	-	JB	AR	28/11/24
E	AMENDED DRAINAGE PIT 9C	JB	JB	AR	16/07/24
D	DRAINAGE PIT SCHEDULE UPDATE	JB	JB	AR	04/03/24
C	AMENDMENTS AS PER COUNCIL COMMENTS	JB	JB	AR	04/03/24



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COMPASS ASSURANCE
 ISO 9001 QUALITY

19 LOT RESIDENTIAL DEVELOPMENT
TOCUMWAL RD, NUMURKAH
 DETAIL PLAN
 MOIRA SHIRE COUNCIL REF: 5/2022/73/2
 ST. JOHN THE BAPTIST PARISH NUMURKAH

DWG STATUS: PROJECT & DWG No: 1104902R04 / 23

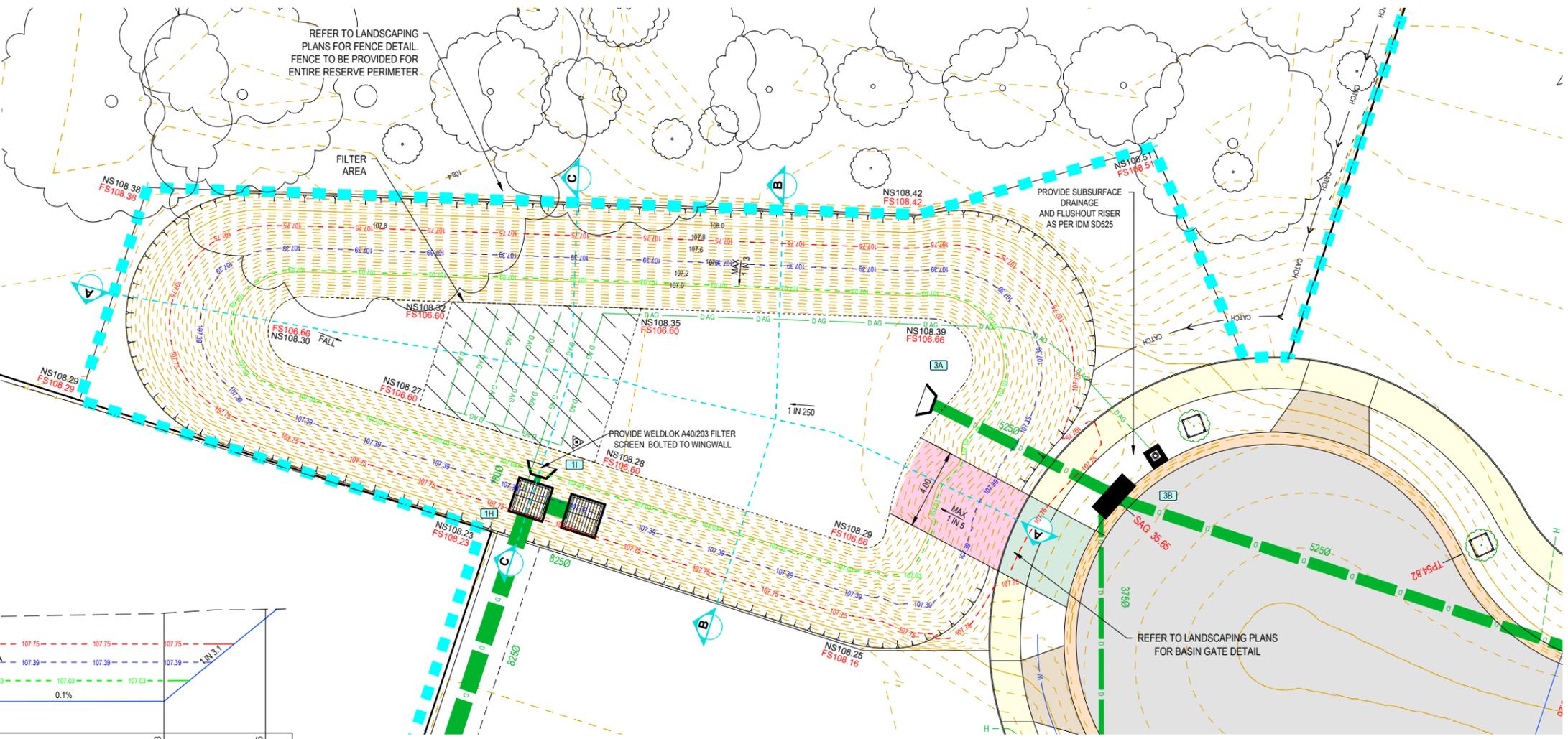
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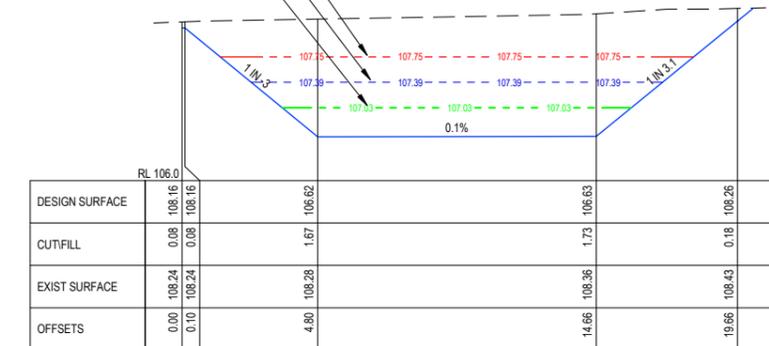
GENERAL DESIGN DETAIL PLAN NOTES
 APPLIES IN ALL CASES UNLESS STATED OTHERWISE

- KERB TYPES:
 - FRONTING LOTS = MODIFIED SM2 (IDM SD 100 - SM2-M)
- ALL KERB RADII ARE TO L&K
- ALL DRIVEWAYS AS PER IDM SD 240 & 245
- ALL FOOTPATHS CONCRETE & 1.5m WIDE @ 0.05m O/S AS PER IDM SD 205
- ALL SHARED PATHS CONCRETE & 2.5m WIDE @ 0.10m O/S BL AS PER IDM SD 205
- ALL EASEMENT DRAINAGE PIPES & PITS ARE 1.0m O/S BL & SIDE BOUNDARIES
- LEVEL 1 SUPERVISION REQUIRED FOR LOT EARTHWORKS UNLESS SPECIFIED OTHERWISE - REFER GENERAL NOTES
- ALL LOTS TO HAVE CATCH DRAINS ALONG SIDE & REAR BOUNDARIES
- CONTOUR INTERVAL 0.2m @ 1:1000 & 0.05m @ 1:200 (1:250(A3)) WHERE SHOWN
- STREET TREE LOCATIONS SHOWN ARE INDICATIVE ONLY

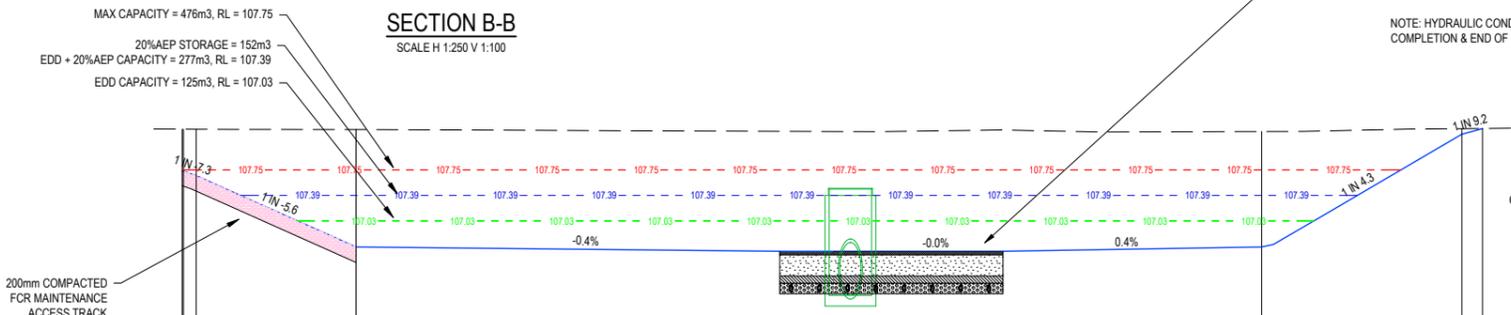
WARNING
 BEWARE OF UNDERGROUND SERVICES
 THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



MAX CAPACITY = 476m³, RL = 107.75
 20% AEP STORAGE = 152m³
 EDD + 20% AEP CAPACITY = 277m³, RL = 107.39
 EDD CAPACITY = 125m³, RL = 107.03



SECTION B-B
 SCALE H 1:250 V 1:100



DESIGN SURFACE	107.73	107.73	107.67	106.66	106.64	108.26	108.34
CUT/FILL	0.59	0.60	107.67	1.66	1.70	0.08	0.00
EXIST SURFACE	108.33	108.33	108.33	108.32	108.30	108.34	108.34
OFFSETS	0.00	0.05	0.50	6.15	38.21	45.29	46.03

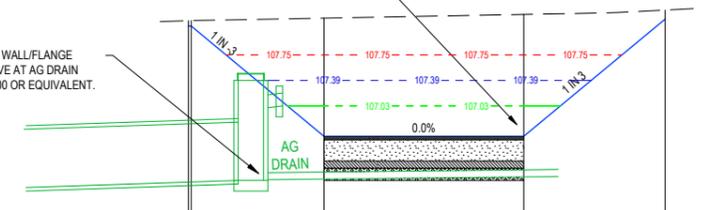
SECTION A-A
 SCALE H 1:250 V 1:100

LEGEND

- 107.75 --- MAX CAPACITY
- 107.39 --- 20% AEP CAPACITY
- 107.03 --- EXTENDED DETENTION DEPTH

SURFACE LAYER 50mm IN-ORGANIC MULCH OR APPROVED EQUIVALENT
FILTER MEDIA LAYER 300mm DEPTH SANDY LOAM (HYDRAULIC CONDUCTIVITY OF 180mm/hr)
TRANSITION LAYER 100mm DEPTH COURSE SAND
DRAINAGE LAYER 150mm DEPTH 7mm SCREENINGS
AG PIPE UNSOAKED 100mm @ 1m SPACING
VEGETATION REFER LANDSCAPE PLAN BY OTHERS

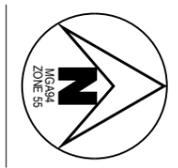
NOTE: HYDRAULIC CONDUCTIVITY TEST TO BE PROVIDED AT PRACTICAL COMPLETION & END OF DEFECTS. CONTRACTOR TO ARRANGE TESTING.



DESIGN SURFACE	108.16	108.16	106.60	106.60	106.60	108.26
CUT/FILL	0.08	0.08	1.67	1.72	1.72	0.13
EXIST SURFACE	108.24	108.24	108.27	108.32	108.32	108.38
OFFSETS	0.00	0.10	4.80	11.87	11.87	16.87

SECTION C-C
 SCALE H 1:250 V 1:100

REV	REVISION	DES	DWG	CHK	DATE
I	CHANGES TO LOT 20-21 DRIVEWAY	-	JB	-	10/06/25
H	CHANGES TO LINE 1B-1C	-	JB	-	26/02/25
G	CHANGES TO LINE 1A-1C	-	JB	-	25/02/25
F	ISSUED FOR CONSTRUCTION	-	JB	-	28/11/24
E	AMENDED DRAINAGE PIT 9C	JB	JB	AR	16/07/24
D	DRAINAGE PIT SCHEDULE UPDATE	JB	JB	AR	04/03/24
C	AMENDMENTS AS PER COUNCIL COMMENTS	JB	JB	AR	04/03/24



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SCALE H 1:250 V 1:100

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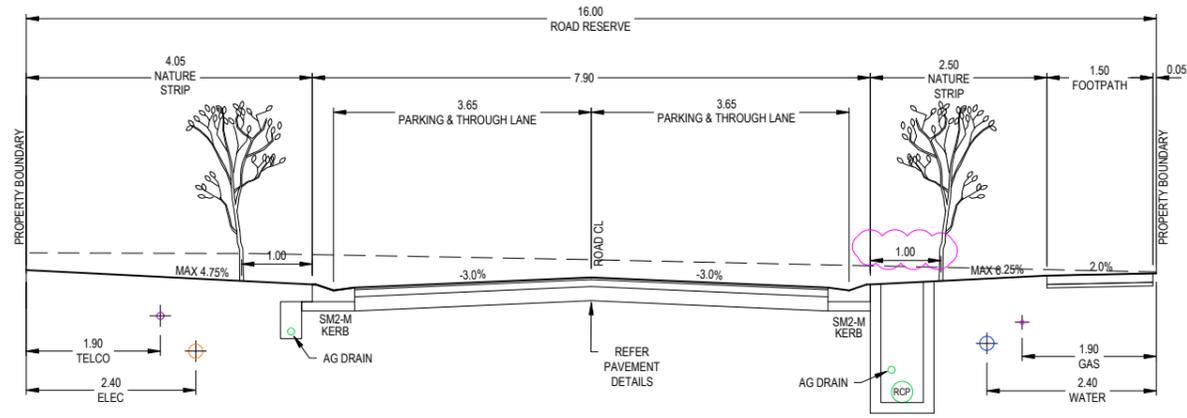
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19 LOT RESIDENTIAL DEVELOPMENT
TOCUMWAL RD, NUMURKAH
BASIN DETAILS
 MOIRA SHIRE COUNCIL REF: 5/2022/73/2
 ST. JOHN THE BAPTIST PARISH NUMURKAH

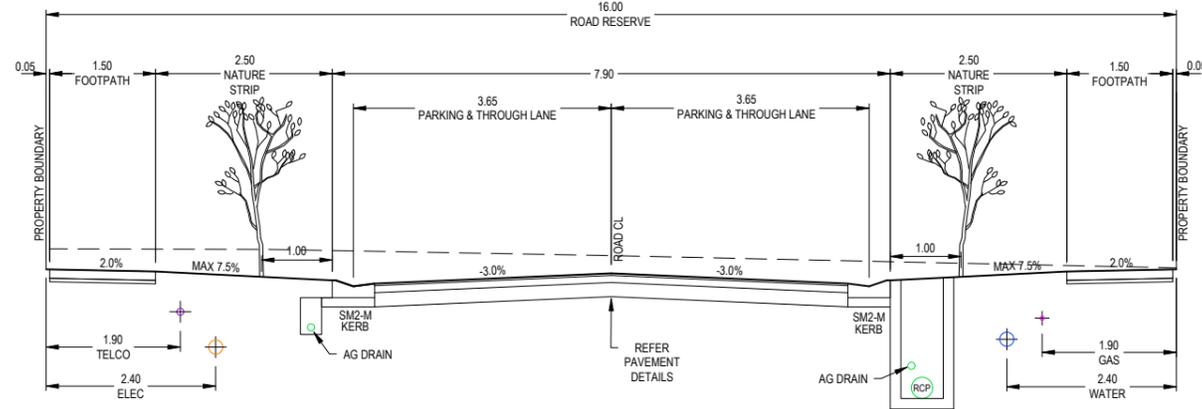
DWG STATUS: **FOR CONSTRUCTION**
 PROJECT & DWG No: 1104902R09 / 23

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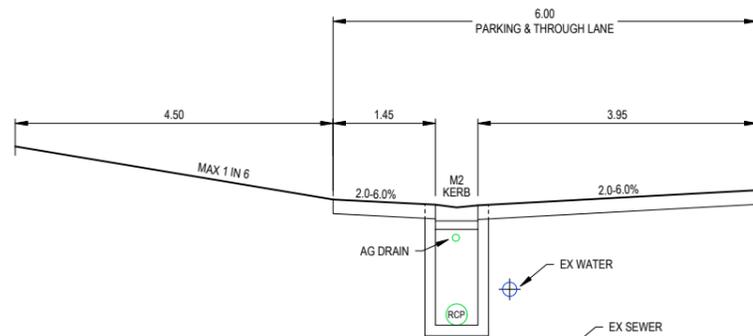
TYPICAL SECTION - KILMARTIN PLACE (W-E)

SCALE 1:100



TYPICAL SECTION - KILMARTIN PLACE (S-N)

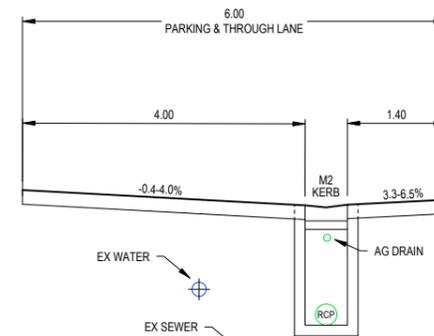
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TYPICAL SECTION - MACKILLOP WAY

CH14 - CH223.67

SCALE 1:100



TYPICAL SECTION - MACKILLOP WAY

CH230.98 - CH300

SCALE 1:100

REV	REVISION	DES	DWG	CHK	AUTH	DATE
I	CHANGES TO LOT 20-21 DRIVEWAY	-	JB	-	JB	10/06/25
H	CHANGES TO LINE 1B-1C	-	JB	-	JB	26/02/25
G	CHANGES TO LINE 1A-1C	-	JB	-	JB	25/02/25
F	ISSUED FOR CONSTRUCTION	-	JB	-	AR	28/11/24
E	AMENDED DRAINAGE PIT 9C	JB	JB	AR	AR	16/07/24
D	DRAINAGE PIT SCHEDULE UPDATE	JB	JB	AR	AR	04/03/24
C	AMENDMENTS AS PER COUNCIL COMMENTS	JB	JB	AR	AR	04/03/24

RPE: PEO006159



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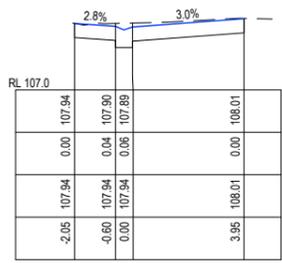
19 LOT RESIDENTIAL DEVELOPMENT
TOCUMWAL RD, NUMURKAH
TYPICAL SECTIONS

MOIRA SHIRE COUNCIL REF: 5/2022/73/2
ST. JOHN THE BAPTIST PARISH NUMURKAH

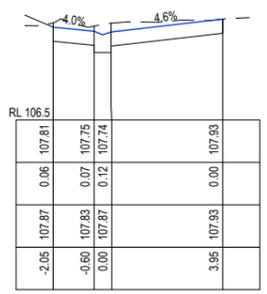
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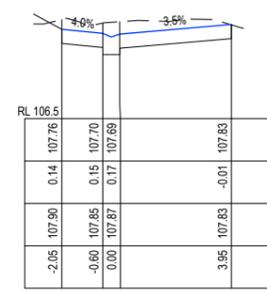
MATCH INTO EXISTING SURFACE



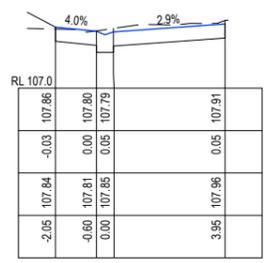
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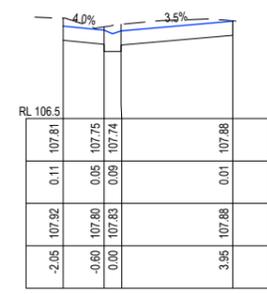
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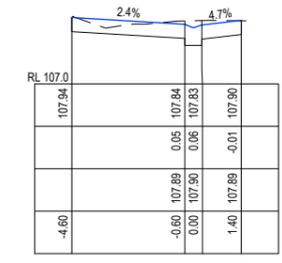
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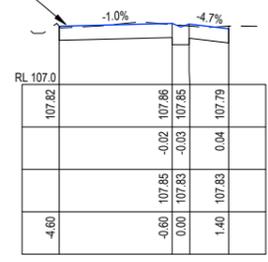
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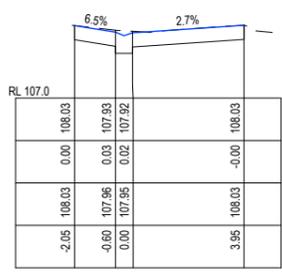
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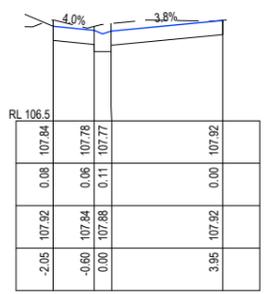
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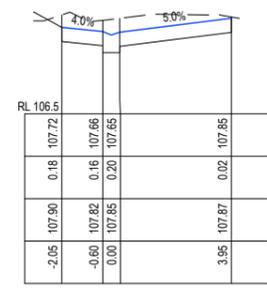
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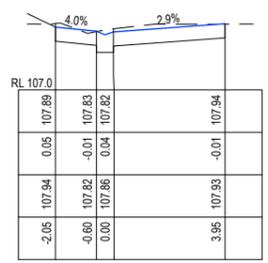
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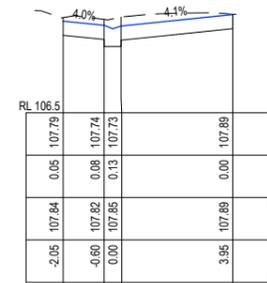
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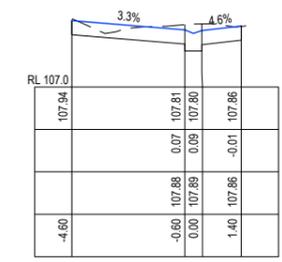
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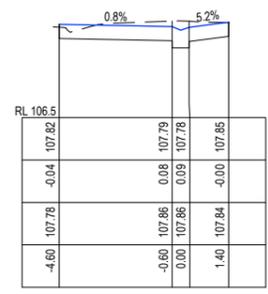
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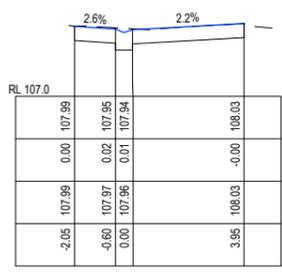
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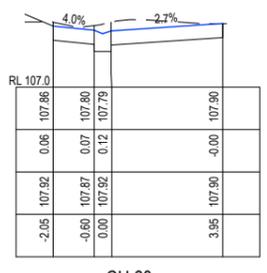
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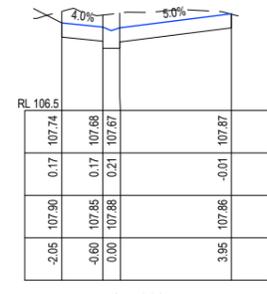
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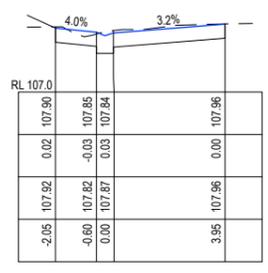
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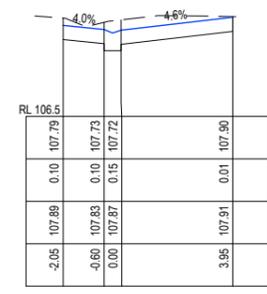
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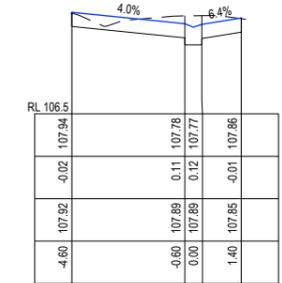
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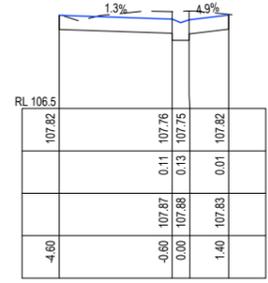
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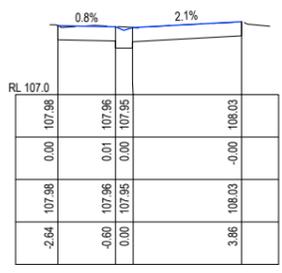
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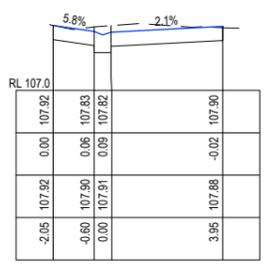
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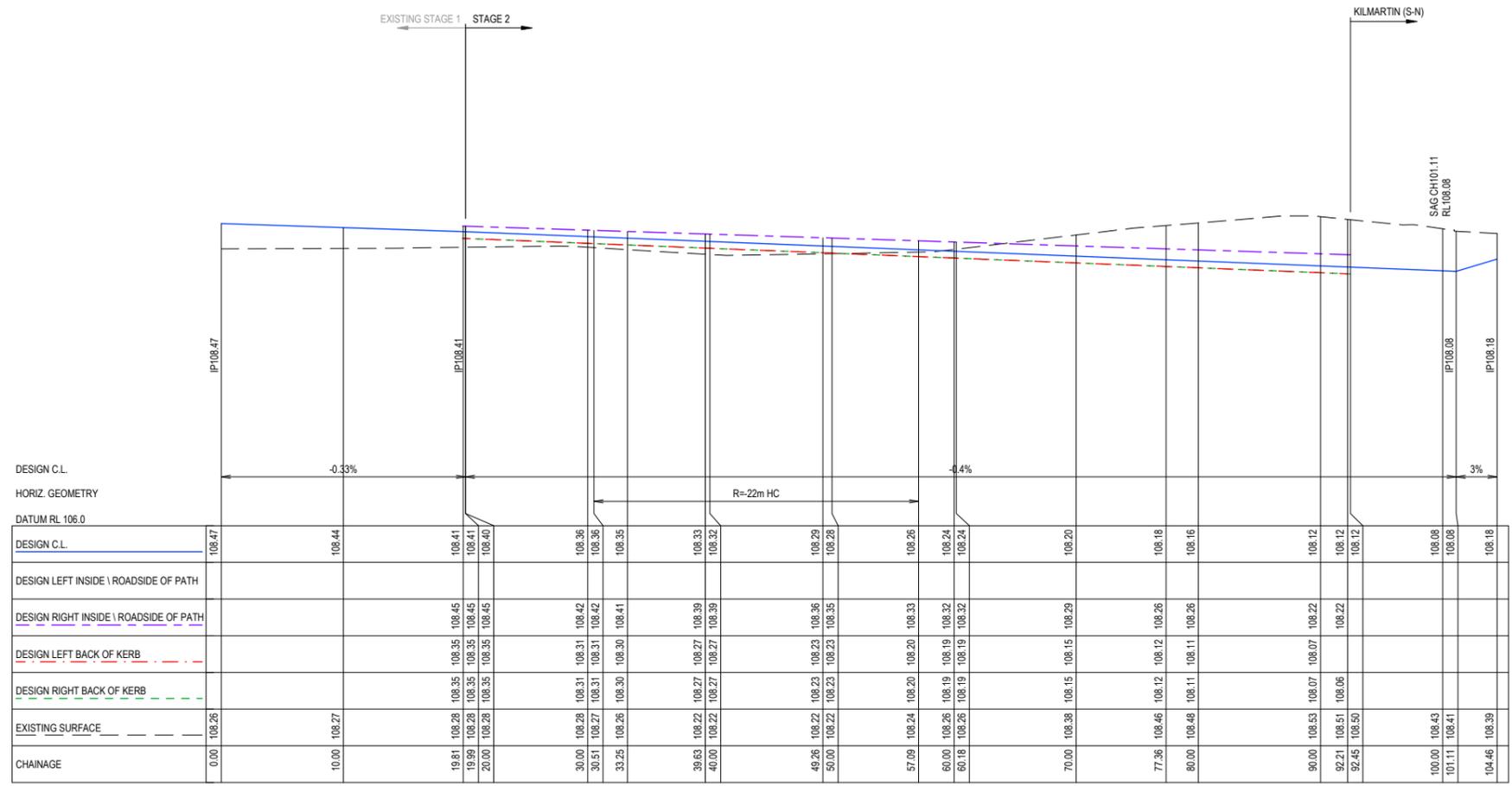


CH 280



CH 12.01





KILMARTIN PLACE (W-E)

REV	REVISION	DES	DWG	CHK	AUTH	DATE
I	CHANGES TO LOT 20-21 DRIVEWAY	-	JB	-	JB	10/06/25
H	CHANGES TO LINE 1B-1C	-	JB	-	JB	26/02/25
G	CHANGES TO LINE 1A-1C	-	JB	-	JB	25/02/25
F	ISSUED FOR CONSTRUCTION	-	JB	-	AR	28/11/24
E	AMENDED DRAINAGE PIT 9C	JB	JB	AR	AR	16/07/24
D	DRAINAGE PIT SCHEDULE UPDATE	JB	JB	AR	AR	04/03/24
C	AMENDMENTS AS PER COUNCIL COMMENTS	JB	JB	AR	AR	04/03/24

RPE: PPE0006159

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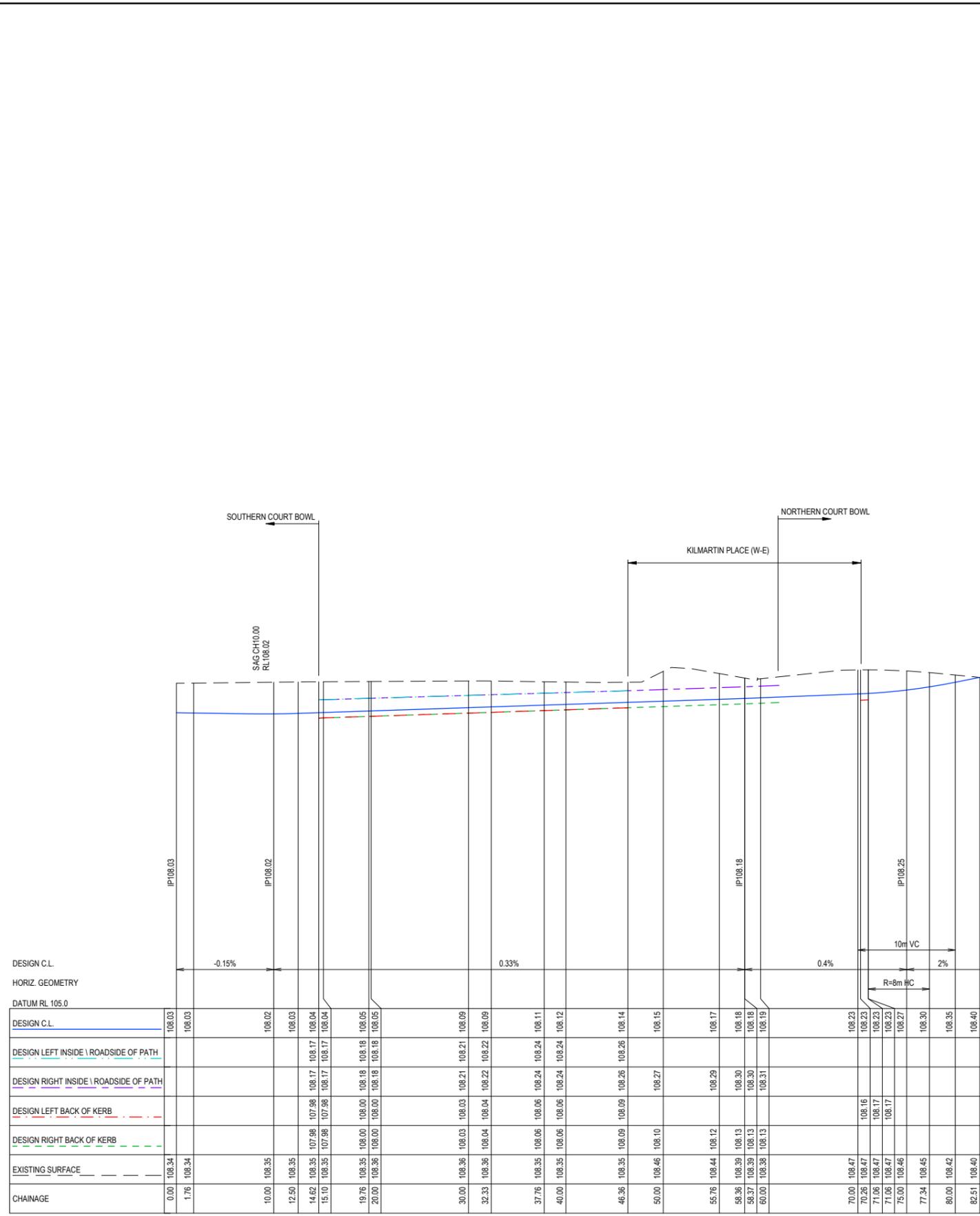
SCALE H 1:500 V 1:50
LENGTHS ARE IN METRES - PAPER SIZE A3

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19 LOT RESIDENTIAL DEVELOPMENT
TOCUMWAL RD, NUMURKAH
KILMARTIN PLACE (W-E) LONG SECTION
MOIRA SHIRE COUNCIL REF: 5/2022/73/2
ST. JOHN THE BAPTIST PARISH NUMURKAH

DWG STATUS: PROJECT & DWG No: REV: **FOR CONSTRUCTION** 1104902R13 / 23 1

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KILMARTIN PLACE (S-N)

REV	REVISION	DES	DWG	CHK	AUTH	DATE
I	CHANGES TO LOT 20-21 DRIVEWAY	-	JB	-	JB	10/06/25
H	CHANGES TO LINE 1B-1C	-	JB	-	JB	26/02/25
G	CHANGES TO LINE 1A-1C	-	JB	-	JB	25/02/25
F	ISSUED FOR CONSTRUCTION	-	JB	-	AR	28/11/24
E	AMENDED DRAINAGE PIT 9C	JB	JB	AR	AR	16/07/24
D	DRAINAGE PIT SCHEDULE UPDATE	JB	JB	AR	AR	04/03/24
C	AMENDMENTS AS PER COUNCIL COMMENTS	JB	JB	AR	AR	04/03/24

RPE: PEO006159

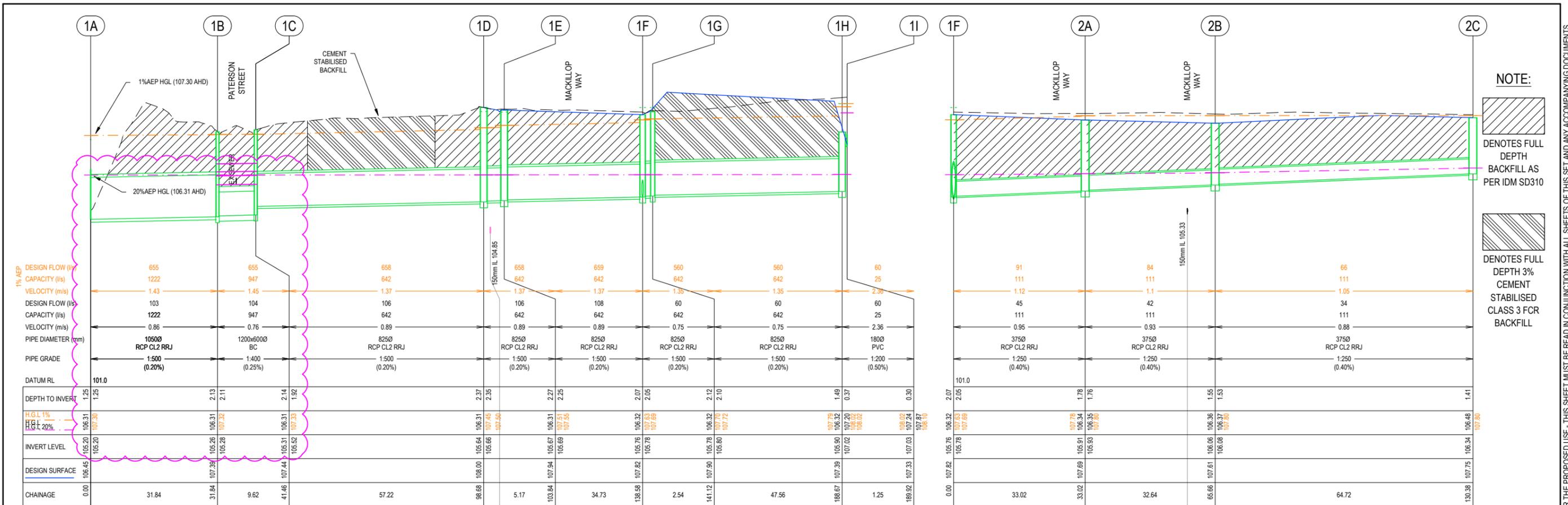
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SCALE H 1:500 V 1:50
 H 5 0 5 10 15 20 25 H
 V 0.5 0 0.5 1 1.5 2.0 2.5 V
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19 LOT RESIDENTIAL DEVELOPMENT
TOCUMWAL RD, NUMURKAH
KILMARTIN PLACE (S-N) LONG SECTION
 MOIRA SHIRE COUNCIL REF: 5/2022/73/2
 ST. JOHN THE BAPTIST PARISH NUMURKAH
 DWG STATUS: PROJECT & DWG No: REV:
FOR CONSTRUCTION 1104902R15 / 23

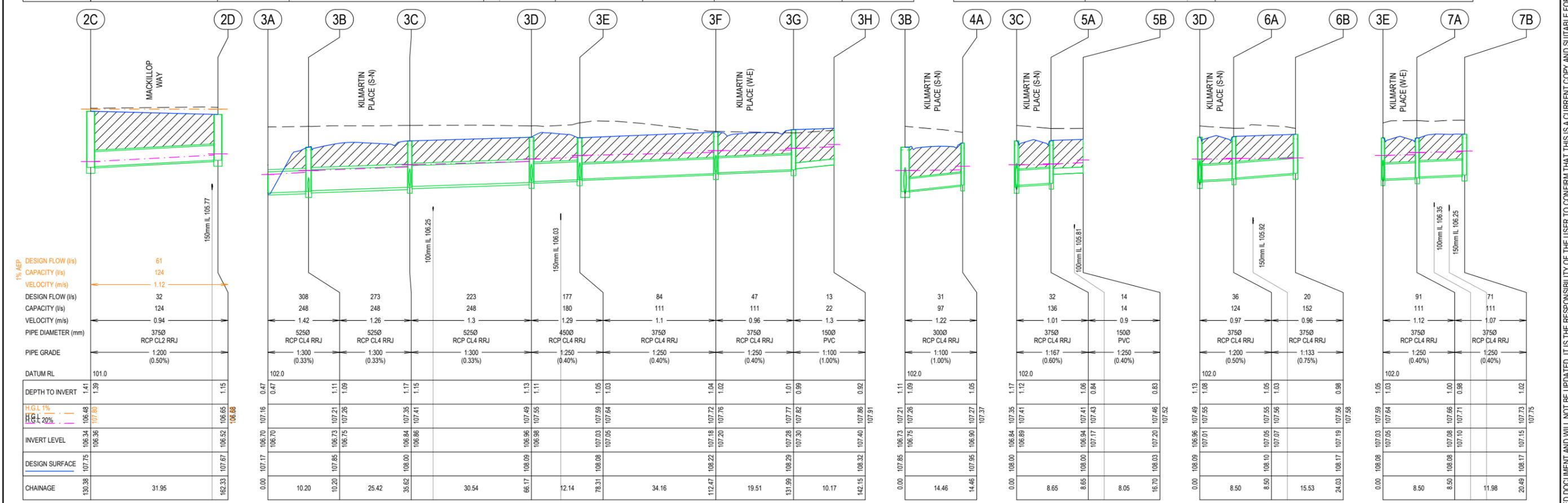
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NOTE:

DENOTES FULL DEPTH BACKFILL AS PER IDM SD310

DENOTES FULL DEPTH 3% CEMENT STABILISED CLASS 3 FCR BACKFILL



REV	REVISION	DES	DWG	CHK	AUTH	DATE
I	CHANGES TO LOT 20-21 DRIVEWAY	-	JB	-	JB	10/06/25
H	CHANGES TO LINE 1B-1C	-	JB	-	JB	26/02/25
G	CHANGES TO LINE 1A-1C	-	JB	-	JB	25/02/25
F	ISSUED FOR CONSTRUCTION	-	JB	-	AR	28/11/24
E	AMENDED DRAINAGE PIT 9C	JB	JB	AR	AR	16/07/24
D	DRAINAGE PIT SCHEDULE UPDATE	JB	JB	AR	AR	04/03/24
C	AMENDMENTS AS PER COUNCIL COMMENTS	JB	JB	AR	AR	04/03/24

SCALE H 1:1000 V 1:100

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SCALE H 1:1000 V 1:100

LENGTHS ARE IN METRES - PAPER SIZE A3

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19 LOT RESIDENTIAL DEVELOPMENT
TOCUMWAL RD, NUMURKAH
DRAINAGE LONG SECTIONS

MOIRA SHIRE COUNCIL REF: 5/2022/7/3
ST. JOHN THE BAPTIST PARISH NUMURKAH

DWG STATUS: PROJECT & DWG No: REV: **FOR CONSTRUCTION** 1104902R18 / 23

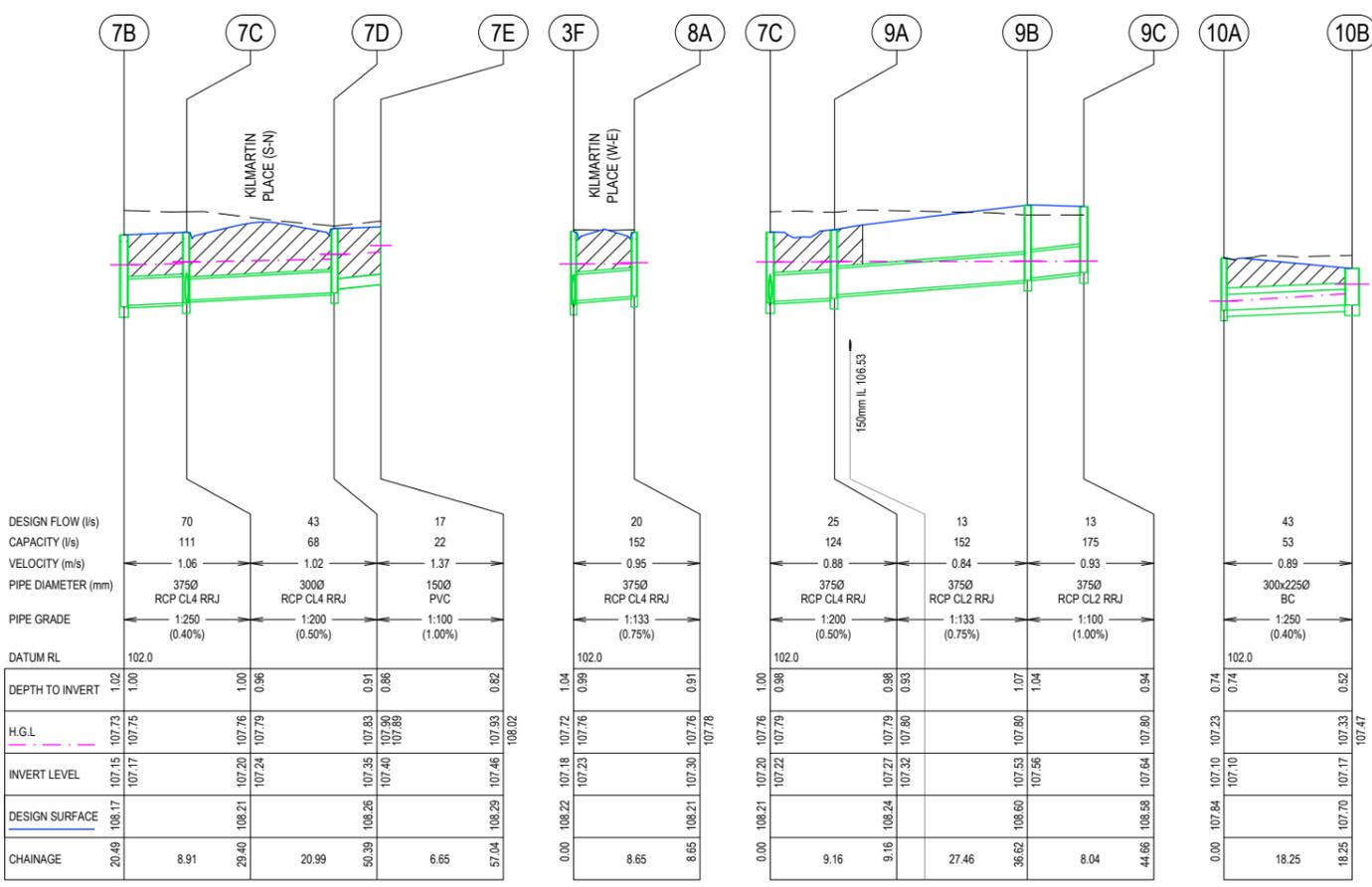
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NOTE:

 DENOTES FULL DEPTH BACKFILL AS PER IDM SD310

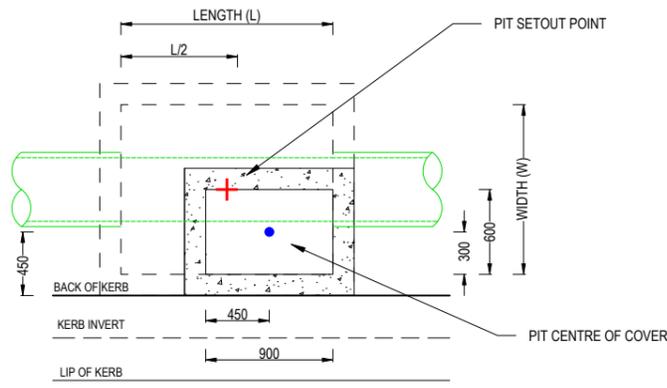
NOTE:
 ALL DOUBLE GRATES TO UTILISE R&S GRATING SMC DOUBLE BRACKETS OR EQUIVALENT



DESIGN FLOW (l/s)	70	43	17
CAPACITY (l/s)	111	68	22
VELOCITY (m/s)	1.06	1.02	1.37
PIPE DIAMETER (mm)	3750 RCP CL4 RRJ	3000 RCP CL4 RRJ	1500 PVC
PIPE GRADE	1:250 (0.40%)	1:200 (0.50%)	1:100 (1.00%)
DATUM RL	102.0		
DEPTH TO INVERT	1.02	1.00	0.82
H.G.L.	107.73	107.76	107.93
INVERT LEVEL	107.17	107.24	107.46
DESIGN SURFACE	108.17	108.21	108.29
CHAINAGE	20.49	29.40	57.04

DESIGN FLOW (l/s)	20	25	13	13
CAPACITY (l/s)	152	124	152	175
VELOCITY (m/s)	0.95	0.88	0.84	0.93
PIPE DIAMETER (mm)	3750 RCP CL4 RRJ	3750 RCP CL4 RRJ	3750 RCP CL2 RRJ	3750 RCP CL2 RRJ
PIPE GRADE	1:133 (0.75%)	1:200 (0.50%)	1:133 (0.75%)	1:100 (1.00%)
DATUM RL	102.0	102.0		
DEPTH TO INVERT	1.04	1.00	1.07	0.94
H.G.L.	107.72	107.79	107.80	107.80
INVERT LEVEL	107.23	107.27	107.56	107.64
DESIGN SURFACE	108.22	108.24	108.60	108.58
CHAINAGE	8.65	9.16	27.46	44.66

DESIGN FLOW (l/s)	43
CAPACITY (l/s)	53
VELOCITY (m/s)	0.89
PIPE DIAMETER (mm)	300x2250 BC
PIPE GRADE	1:250 (0.40%)
DATUM RL	102.0
DEPTH TO INVERT	0.74
H.G.L.	107.23
INVERT LEVEL	107.10
DESIGN SURFACE	107.84
CHAINAGE	18.25



LEGEND
 + PIT SETOUT POINT
 ● PIT CENTRE OF COVER

PIT NAME	TYPE	EASTING	NORTHING	INTERNAL		INLET		OUTLET		PIT	DEPTH	REMARKS
				WD	LEN	DIA	INVLEV	DIA	INVLEV			
1A	HEADWALL	360183.88	6005197.13	1200	200	1050	105.20			106.45	1.25	APPROVED PRECAST WINGWALL WITH ROCK BEACHING
1B	SEP	360152.56	6005202.84	600	1500	1200x600	105.28	1050	105.26	107.39	2.13	HAUNCHED IDM SD431+SD410
1C	SEP	360142.98	6005203.33	600	1500	825	105.52	1200x600	105.31	107.44	2.14	HAUNCHED IDM SD431+SD410
1D	JP	360088.69	6005221.41	1200	1500	825	105.66	825	105.64	108.00	2.37	HAUNCHED IDM SD420+SD410 WITH GATIC LID
1E	GJP	360086.55	6005225.63	1200	1500	825	105.69	825	105.67	107.94	2.27	IDM SD420+SD410 1200x600 HD GRATE - BIKE SAFE
1F	GJP	360097.45	6005258.61	1200	1200	825	105.78	825	105.76	107.82	2.07	IDM SD420+SD410 1200x600 HD GRATE - BIKE SAFE
1G	JP	360095.45	6005260.04	900	1200	825	105.80	825	105.78	107.90	2.12	IDM SD420+SD410
1H	MW GJP	360050.29	6005274.94	1500	1500	180	107.02	825	105.90	107.39	1.49	2xMMW 725 1/8/423
1I	HEADWALL	360049.10	6005275.33	450	150			180	107.03	107.33	0.30	PRECAST WINGWALL TO SUIT
2A	GJP	360108.09	6005289.87	600	1800	375	105.93	375	105.91	107.69	1.78	TWO IDM SD420 (2x600x900) COMBINED WITH KNOCKOUT REMOVED AND BIKE SAFE GRATES (2X900X600)
2B	GJP	360118.33	6005320.87	600	1800	375	106.08	375	106.06	107.61	1.55	TWO IDM SD420 (2x600x900) COMBINED WITH KNOCKOUT REMOVED AND BIKE SAFE GRATES (2X900X600)
2C	GJP	360138.63	6005382.32	600	1800	375	106.36	375	106.34	107.75	1.41	TWO IDM SD420 (2x600x900) COMBINED WITH KNOCKOUT REMOVED AND BIKE SAFE GRATES (2X900X600)
2D	GJP	360148.66	6005412.65	600	1800			375	106.52	107.67	1.15	TWO IDM SD420 (2x600x900) COMBINED WITH KNOCKOUT REMOVED AND BIKE SAFE GRATES (2X900X600)
3A	HEADWALL	360045.57	6005294.73	900	150	525	106.70			107.18	0.48	
3B	GJP+SEP	360050.13	6005303.66	600	1900	525	106.75	525	106.73	107.85	1.11	IDM SD445
3C	JP + GJP	360058.00	6005327.29	900	900	525	106.86	525	106.84	108.00	1.17	HAUNCHED IDM SD480+SD410
3D	SEP	360067.73	6005356.24	900	900	450	106.98	525	106.96	108.09	1.13	HAUNCHED IDM SD431+SD410
3E	SEP	360062.27	6005366.78	600	900	375	107.05	450	107.03	108.08	1.05	IDM SD431
3F	JP + GJP	360029.74	6005377.20	600	900	375	107.20	375	107.18	108.22	1.04	IDM SD480
3G	JP + GJP	360014.48	6005389.28	600	900	150	107.30	375	107.28	108.29	1.01	IDM SD480
3H	TP	360011.19	6005398.83	0	0			150	107.40	108.32	0.92	
4A	JP	360064.27	6005303.35	600	600	300	106.90	300	106.90	107.95	1.05	IDM SD420
5A	JP + GJP	360066.22	6005324.57	600	900	150	107.17	375	106.94	108.00	1.06	IDM SD480
5B	TP	360068.74	6005332.21	0	0			150	107.20	108.03	0.83	
6A	JP + GJP	360075.80	6005353.57	600	900	375	107.07	375	107.05	108.10	1.05	IDM SD480
6B	JP + GJP	360080.67	6005368.32	600	900			375	107.19	108.17	0.98	IDM SD480
7A	SEP	360064.67	6005374.94	600	900	375	107.10	375	107.08	108.08	1.00	IDM SD431
7B	SEP	360075.12	6005380.23	600	900	375	107.17	375	107.15	108.17	1.02	IDM SD431
7C	JP + GJP	360077.78	6005388.74	600	900	300	107.24	375	107.20	108.21	1.00	IDM SD480
7D	JP	360098.73	6005387.86	600	900	150	107.40	300	107.35	108.26	0.91	IDM SD420
7E	TP	360095.67	6005393.64	0	0			150	107.47	108.29	0.82	
8A	JP + GJP	360032.41	6005385.43	600	900			375	107.30	108.21	0.92	IDM SD480
9A	JP	360083.64	6005395.68	600	900	375	107.32	375	107.27	108.25	0.98	IDM SD420
9B	JP	360063.92	6005414.72	600	900	375	107.56	375	107.53	108.60	1.07	IDM SD425
9C	JP	360066.43	6005422.36	600	900			375	107.64	108.58	0.94	IDM SD425
10A	JP	360178.29	6005494.77	600	900	300x225	107.10			107.84	0.74	IDM SD420
10B	GJP	360172.73	6005477.39	600	1800			300x225	107.17	107.70	0.52	TWO IDM SD420 (2x600x900) COMBINED WITH KNOCKOUT REMOVED AND BIKE SAFE GRATES

I	CHANGES TO LOT 20-21 DRIVEWAY	JB	JB	10/06/25
H	CHANGES TO LINE 1B-1C	JB	JB	26/02/25
G	CHANGES TO LINE 1A-1C	JB	JB	25/02/25
F	ISSUED FOR CONSTRUCTION	JB	AR	28/11/24
E	AMENDED DRAINAGE PIT 9C	JB	AR	16/07/24
D	DRAINAGE PIT SCHEDULE UPDATE	JB	AR	04/03/24
C	AMENDMENTS AS PER COUNCIL COMMENTS	JB	AR	04/03/24

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 H 10 0 10 20 30 40 50 M
 V 1 0 1 2 3 4 5 M
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19 LOT RESIDENTIAL DEVELOPMENT
TOCUMWAL RD, NUMURKAH
DRAINAGE LS, PIT SCHEDULE & PIT DETAILS
 MOIRA SHIRE COUNCIL REF: 5/2022/732
 ST. JOHN THE BAPTIST PARISH NUMURKAH
 DWG STATUS: PROJECT & DWG No: 1104902R19 / 23
FOR CONSTRUCTION

LEGEND

- 1A PIT No
- 1A CATCHMENT
- OVERLAND FLOWPATH

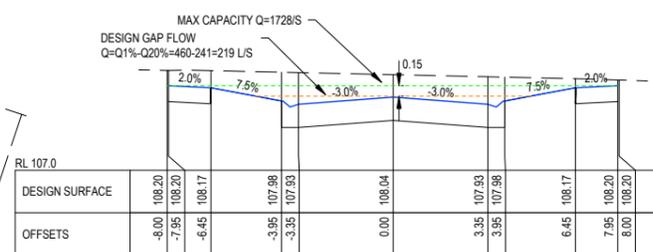
NOTE

1. CONTOURS SHOWN HAVE BEEN DERIVED FROM LIDAR DATA.
2. CONTOURS ARE SHOWN AT INTERVALS OF 0.02 METERS AND ARE APPROXIMATE.
3. CONTOURS ARE INTENDED FOR GUIDANCE IN CREATING DRAINAGE CATCHMENTS ONLY.

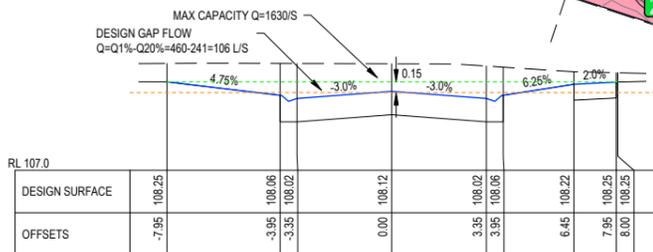


LEGEND

- MAX CAPACITY
- DESIGN GAP FLOW



**KILMARTIN PLACE (S-N)
B-B - CH14.62**
SCALE H 1:250 V 1:100



**KILMARTIN PLACE (W-E)
A-A - CH92.21**
SCALE H 1:250 V 1:100

REV	DES	DWG	CHK	AUTH	DATE
I	-	-	-	JB	10/06/25
H	-	-	-	JB	26/02/25
G	-	-	-	JB	25/02/25
F	-	-	-	AR	28/11/24
E	JB	AR	AR	16/07/24	
D	JB	AR	AR	04/03/24	
C	JB	JB	AR	04/03/24	



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**19 LOT RESIDENTIAL DEVELOPMENT
TUCUMWAL RD, NUMURKAH
NETWORK CATCHMENTS & 1% AEP FLOWPATHS**

MOIRA SHIRE COUNCIL REF: 5/2022/73/2
ST. JOHN THE BAPTIST PARISH NUMURKAH

DWG STATUS: **FOR CONSTRUCTION** PROJECT & DWG No: 1104902R20 / 23

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12D MODEL - HYDROLOGICAL DESIGN SHEET

Project: 1104902 Design
 Drainage I DRN/STR
 Rainfall Fi Numurkah 2022_10_12.12hydro
 Tc Method Direct
 Rainfall M IFD Table
 Runoff C Method: Direct

Minor 20.00 AEP(%) Storm Event

Node Name	Node Type	Setout Easting	Setout Northing	Setout RL	Grate RL	Catch ID	Time Tc	Intensity I	Runoff C	Area A	Full CA	Full Sum CA	Full Qc=CA	Partial CA	Partial Sum CA	Partial Qc=CA	Direct Flow Qdg	Approach Flow Qa
(-)	(-)	(m)	(m)	(m)	(m)	(-)	(min)	(mm/hr)	(-)	(ha)	(ha)	(ha)	(L/s)	(ha)	(ha)	(L/s)	(L/s)	(L/s)
00B	EDCM 900x600 GSEP SD601	360046.34	6005287.00	106.62	106.62	1P	17.00	55.20	0.50	0.30	0.15	0.15	22.60	0.15	0.15	22.60		22.60
1A	HW OUT	360183.88	6005197.13	106.45	107.20													
1B	SEP GENERAL	360152.56	6005202.84	107.39	107.39													0.00
1C	SEP GENERAL	360142.98	6005203.33	107.44	107.44													0.00
1D	JP GENERAL	360088.69	6005221.41	108.00	107.90													0.00
1E	GJP GENERAL	360086.55	6005225.63	107.94	107.89													0.00
1F	GJP GENERAL	360097.45	6005258.61	107.82	108.00	4P	6.00	89.86	0.95	0.02	0.02	0.02	5.50	0.02	0.02	5.50		5.50
1G	JP GENERAL	360095.45	6005260.04	107.90	108.00													0.00
1H	MW GENERAL	360050.29	6005274.94	107.39	108.10													0.00
1I	HWIN	360049.10	6005275.33	107.33	108.10												60.00	60.00
2A	GJP GENERAL	360108.09	6005289.87	107.69	107.80	4P	6.00	89.86	0.95	0.02	0.02	0.02	4.60	0.02	0.02	4.60		4.60
2B	GJP GENERAL	360118.33	6005320.86	107.61	107.80	4P	6.00	89.86	0.95	0.05	0.04	0.04	10.80	0.04	0.04	10.80		10.80
2C	GJP GENERAL	360138.63	6005382.32	107.75	107.80	4P	6.00	89.86	0.95	0.01	0.01	0.01	3.10	0.01	0.01	3.10		3.10
2D	GJP GENERAL	360148.66	6005412.65	107.67	107.80	1P	6.00	89.86	0.50	0.18	0.09	0.13	32.00	0.09	0.13	32.00		32.00
						4P	6.00	89.86	0.95	0.04	0.04							
3A	HW OUT	360045.57	6005294.73	107.17	107.40													
3B	IDM 1900x600 DSEP SD445	360050.13	6005303.66	107.85	107.78	5P	6.00	89.86	0.75	0.07	0.05	0.05	12.20	0.05	0.05	12.20		12.20
3C	IDM 900x900 GJP+JP SD480+SD410	360058.00	6005327.29	108.00	107.90	2P	6.00	89.86	0.70	0.12	0.09	0.10	26.10	0.09	0.10	26.10		26.10
						5P	6.00	89.86	0.75	0.02	0.02					0.02		
3D	IDM 900x900 SEP SD431+SD410	360067.73	6005356.24	108.09	108.00	2P	6.00	89.86	0.70	0.06	0.05	0.06	14.00	0.05	0.06	14.00		14.00
						5P	6.00	89.86	0.75	0.01	0.01					0.01		
3E	IDM 900x600 SEP SD431	360062.27	6005366.78	108.08	107.98	5P	6.00	89.86	0.75	0.03	0.02	0.02	5.10	0.02	0.02	5.10		5.10
3F	IDM 900x600 GJP+JP SD480	360029.74	6005377.20	108.22	108.11	2P	6.00	89.86	0.70	0.09	0.06	0.07	18.30	0.06	0.07	18.30		18.30
						5P	6.00	89.86	0.75	0.02	0.01					0.01		
3G	IDM 900x600 GJP+JP SD480	360014.48	6005389.27	108.29	108.18	2P	6.00	89.86	0.70	0.16	0.11	0.14	34.00	0.11	0.14	34.00		34.00
						5P	6.00	89.86	0.75	0.03	0.03					0.03		
3H	TP	360011.19	6005398.82	108.32	108.21	2P	6.00	89.86	0.70	0.08	0.05	0.05	13.20	0.05	0.05	13.20		13.20
4A	IDM 600x600 JP SD420	360064.27	6005303.35	107.95	107.82	2P	6.00	89.86	0.70	0.18	0.13	0.13	31.30	0.13	0.13	31.30		31.30
5A	IDM 900x600 GJP+JP SD480	360066.21	6005324.57	108.00	107.90	2P	6.00	89.86	0.70	0.08	0.05	0.07	18.10	0.05	0.07	18.10		18.10
						5P	6.00	89.86	0.75	0.02	0.02					0.02		
5B	TP	360068.74	6005332.21	108.03	107.92	2P	6.00	89.86	0.70	0.08	0.06	0.06	14.20	0.06	0.06	14.20		14.20
6A	IDM 900x600 GJP+JP SD480	360075.80	6005353.57	108.10	108.00	2P	6.00	89.86	0.70	0.08	0.06	0.07	16.60	0.06	0.07	16.60		16.60
						5P	6.00	89.86	0.75	0.01	0.01					0.01		
6B	IDM 900x600 GJP+JP SD480	360080.67	6005368.32	108.17	108.05	2P	6.00	89.86	0.70	0.08	0.05	0.08	20.20	0.05	0.08	20.20		20.20
						5P	6.00	89.86	0.75	0.04	0.03					0.03		
7A	IDM 900x600 SEP SD431	360064.67	6005374.94	108.08	107.98	2P	6.00	89.86	0.70	0.07	0.05	0.08	20.60	0.05	0.08	20.60		20.60
						5P	6.00	89.86	0.75	0.04	0.03					0.03		
7B	IDM 900x600 SEP SD431	360075.12	6005380.23	108.17	108.08	5P	6.00	89.86	0.75	0.01	0.01	0.01	1.70	0.01	0.01	1.70		1.70
7C	IDM 900x600 GJP+JP SD480	360077.78	6005388.74	108.21	108.12	5P	6.00	89.86	0.75	0.02	0.02	0.02	3.90	0.02	0.02	3.90		3.90
7D	IDM 900x600 JP SD420	360098.73	6005387.86	108.26	108.26	2P	6.00	89.86	0.70	0.15	0.10	0.10	25.90	0.10	0.10	25.90		25.90
7E	TP	360095.67	6005393.64	108.29	108.29	2P	6.00	89.86	0.70	0.10	0.07	0.07	16.90	0.07	0.07	16.90		16.90
8A	IDM 900x600 GJP+JP SD480	360032.41	6005385.43	108.21	108.11	2P	6.00	89.86	0.70	0.07	0.05	0.08	20.20	0.05	0.08	20.20		20.20
						5P	6.00	89.86	0.75	0.04	0.03					0.03		
9A	IDM 900x600 JP SD420	360083.64	6005395.68	108.24	108.24	2P	6.00	89.86	0.70	0.07	0.05	0.05	12.80	0.05	0.05	12.80		12.80
9B	IDM 900x600 JP SD420	360063.92	6005414.72	108.60	108.60													0.00
9C	IDM 900x600 JP SD420	360066.43	6005422.36	108.58	108.58	1P	6.00	89.86	0.50	0.11	0.05	0.05	13.20	0.05	0.05	13.20		13.20
10A	IDM 900x600 JP SD420	360178.29	6005494.77	107.84	107.84													
10B	GJP GENERAL	360172.73	6005477.39	107.70	107.70	1P	6.00	89.86	0.50	0.29	0.15	0.17	43.20	0.15	0.17	43.20		43.20
						4P	6.00	89.86	0.95	0.03	0.03							

12D MODEL - HYDROLOGICAL DESIGN SHEET

Project: 1104902 Design
 Drainage I DRN/STR
 Rainfall Fi Numurkah 2022_10_12.12hydro
 Tc Method Direct
 Rainfall M IFD Table
 Runoff C Method: Direct

Major 1.00 AEP(%) Storm Event

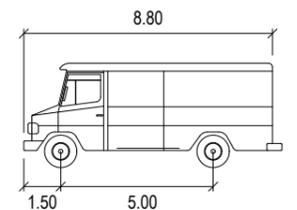
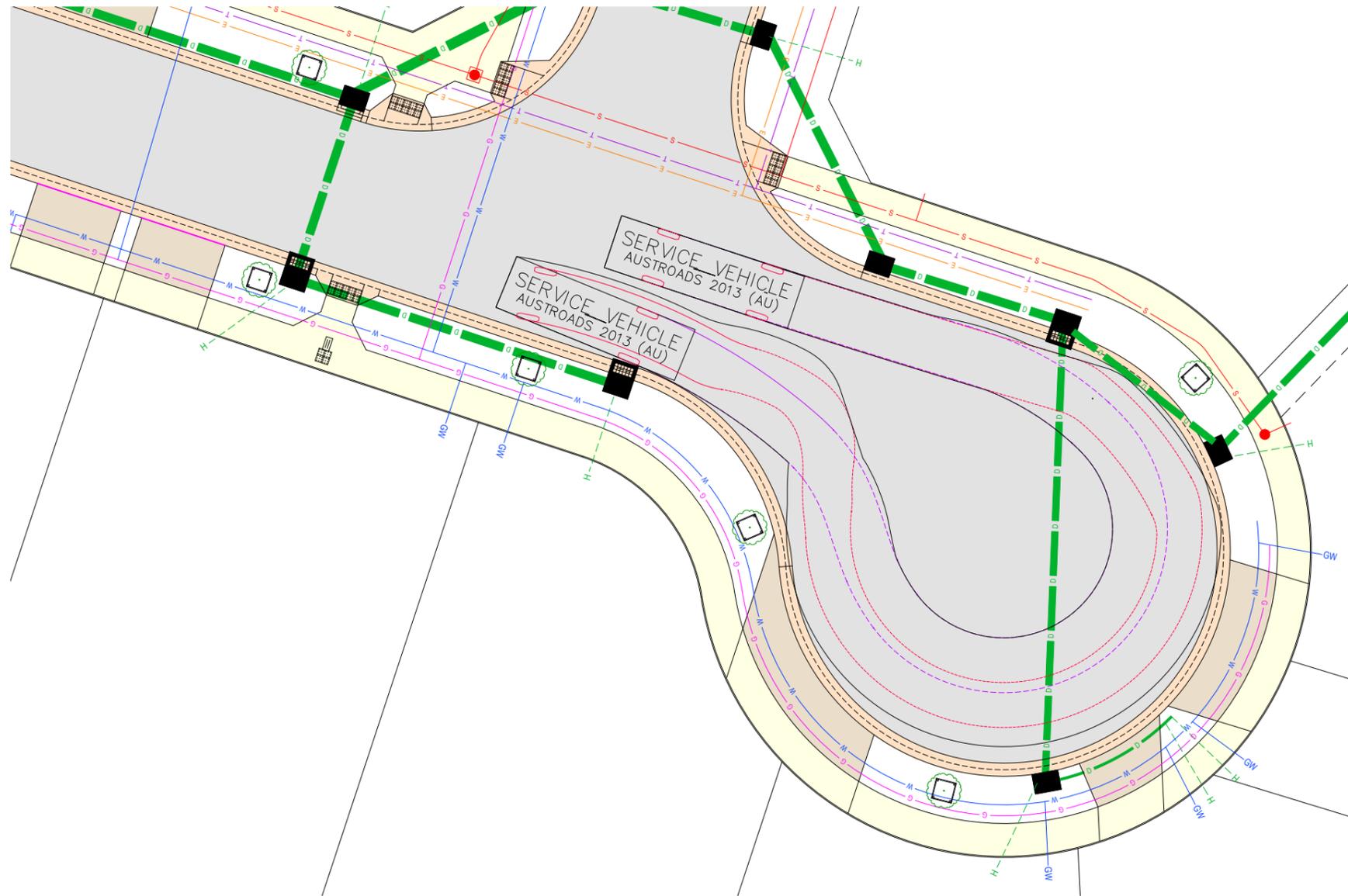
Node Name	Node Type	Setout Easting	Setout Northing	Setout RL	Grate RL	Catch ID	Time Tc	Intensity I	Runoff C	Area A	Full CA	Full Sum CA	Full Qc=CA	Partial CA	Partial Sum CA	Partial Qc=CA	Direct Flow Qdg	Approach Flow Qa
(-)	(-)	(m)	(m)	(m)	(m)	(-)	(min)	(mm/hr)	(-)	(ha)	(ha)	(ha)	(L/s)	(ha)	(ha)	(L/s)	(L/s)	(L/s)
00B	EDCM 900x600 GSEP SD601	360046.34	6005287.00	106.62	106.62	1P	12.00	127.92	0.50	0.30	0.15	0.15	52.40	0.15	0.15	52.40		52.40
1A	HW OUT	360183.88	6005197.13	106.45	107.20													
1B	SEP GENERAL	360152.56	6005202.84	107.39	107.39													0.00
1C	SEP GENERAL	360142.98	6005203.33	107.44	107.44													0.00
1D	JP GENERAL	360088.69	6005221.41	108.00	107.90													0.00
1E	GJP GENERAL	360086.55	6005225.63	107.94	107.89													0.00
1F	GJP GENERAL	360097.45	6005258.61	107.82	108.00	4P	6.00	170.64	0.95	0.02	0.02	0.02	10.40	0.02	0.02	10.40		10.40
1G	JP GENERAL	360095.45	6005260.04	107.90	108.00													0.00
1H	MW GENERAL	360050.29	6005274.94	107.39	108.10												500.00	500.00
1I	HWIN	360049.10	6005275.33	107.21	108.10												60.00	60.00
2A	GJP GENERAL	360108.09	6005289.87	107.69	107.80	4P	6.00	170.64	0.95	0.02	0.02	0.02	8.80	0.02	0.02	8.80		8.80
2B	GJP GENERAL	360118.33	6005320.86	107.61	107.80	4P	6.00	170.64	0.95	0.05	0.04	0.04	20.50	0.04	0.04	20.50		20.50
2C	GJP GENERAL	360138.63	6005382.32	107.75	107.80	4P	6.00	170.64	0.95	0.01	0.01	0.01	5.80	0.01	0.01	5.80		5.80
2D	GJP GENERAL	360148.66	6005412.65	107.67	107.80	1P	6.00	170.64	0.50	0.18	0.09	0.13	60.80	0.09	0.13	60.80		60.80
						4P	6.00	170.64	0.95	0.04	0.04					0.04		
3A	HW OUT	360045.57	6005294.73	107.17	107.40													
3B	IDM 1900x600 DSEP SD445	360050.13	6005303.66	107.85	107.78	5P	6.00	170.64	0.75	0.07	0.05	0.05	23.10	0.05	0.05	23.10		23.10
3C	IDM 900x900 GJP+JP SD480+SD410	360058.00	6005327.29	108.00	107.90	2P	6.00	170.64	0.70	0.12	0.09	0.10	49.50	0.09	0.10	49.50		49.50
						5P	6.00	170.64	0.75	0.02	0.02					0.02		
3D	IDM 900x900 SEP SD431+SD410	360067.73	6005356.24	108.09	108.00	2P	6.00	170.64	0.70	0.06	0.05	0.06	26.50	0.05	0.06	26.50		26.50
						5P	6.00	170.64	0.75	0.01	0.01					0.01		
3E	IDM 900x600 SEP SD431	360062.27	6005366.78	108.08	107.98	5P	6.00	170.64	0.75	0.								

12D MODEL - HYDRAULIC DESIGN SHEET

Project: 1104902 Design
 Drainage Mode DRN/STR
 Rainfall File: Numurkah 2022_10_12.12dhydro
 Rainfall Method IFD Table
 Freeboard Limit 0.15 m

Minor 20.00 AEP(%) Storm Event

Pipe ID	Pipe Type	Pipe Length (m)	Pipe Size (mm)	Full Pipe Area Af (sq.m)	Pipe Grade (%)	Pipe Grade (1 in)	Full-area Tct (min)	Full-area I (mm/hr)	Full-area Sum CA (ha)	Full-area Qc=CA (L/s)	Part-area Tct (min)	Part-area I (mm/hr)	Part-area Sum CA (ha)	Part-area Qc=CA (L/s)	Catchment Flow Qc (L/s)	Direct Node Flow Qdg (L/s)	Pipe Flow Q (L/s)	Capacity Flow Qcap (L/s)	Q/Ccap Ratio (-)	Full Pipe Vel V=Q/Af (m/s)	Norm Depth Vel Vn=Q/An (m/s)	Crit Depth Vel Vc=Q/Ac (m/s)	Capacity Vel Vcap=Qcap/Af (m/s)	US Node Grate RL (m)	Pipe US IL (m)	Pipe DS IL (m)	DS Node Grate RL (m)	Cover Limit (m)	Cover Min (m)	Pipe DS Bend (deg)	Pipe DS Drop (m)	US Node Ku (-)	US Node Kw (-)	Pipe V'head (m)	P'head Loss (Ku.V'head) (m)	WSE Loss (Kw.V'head) (m)	Manning n (-)	Pipe Head Loss (m)	US Node HGL (m)	Pipe US HGL (m)	Pipe DS HGL (m)	DS Node HGL (m)	HGL Grade (%)	HGL Grade (1 in)	F'board US (m)		
008 to 00A	RCP CL2 RRU	6.83	300.00	0.07	0.40	250.00	17.00	55.20	0.15	22.60	17.00	55.20	0.15	22.60	22.60	22.60	61.20	0.37	0.32	0.80	0.91	0.87	106.62	105.79	105.77	107.15	0.50	0.50	0.00		7.00	0.01	0.04		0.013	0.03	105.96	105.92	105.88	105.88	0.57	174.40	0.67				
18 to 1A	RCP CL2 RRU	31.84	1050.00	0.87	0.20	500.00	10.97	69.43	0.22	43.30	10.41	70.92	0.21	41.80	43.30	60.00	103.30	1221.70	0.08	0.12	0.86	1.09	1.41	107.39	105.26	105.20	107.20	0.60	1.03	0.00			0.00			0.013	0.00	106.31	106.31	106.31	106.31	0.00	-53381.30	1.08			
1C to 1B	BC	9.62	1200x600	0.72	0.25	400.00	10.77	69.97	0.22	43.60	10.20	71.46	0.21	42.10	43.60	60.00	103.60	947.10	0.11	0.14	0.79	0.95	1.32	107.44	105.31	105.28	107.39	0.20	1.27	-8.30	0.02		0.00			0.013	0.00	106.31	106.31	106.31	106.31	0.00	33436.70	1.13			
10 to 1D	RCP CL2 RRU	57.22	825.00	0.54	0.20	500.00	9.70	73.36	0.22	45.70	9.13	75.89	0.21	44.70	45.70	60.00	105.70	642.20	0.16	0.20	0.89	1.14	1.20	107.90	105.64	105.52	107.44	0.60	1.05	16.50	0.02	0.59	0.00	0.00			0.013	0.00	106.31	106.31	106.31	106.31	0.00	25144.80	1.59		
1E to 1C	RCP CL2 RRU	5.17	825.00	0.54	0.20	500.00	9.60	73.79	0.22	46.00	9.03	76.32	0.21	45.00	46.00	60.00	106.00	642.20	0.17	0.20	0.89	1.14	1.20	107.89	105.67	105.66	107.90	0.60	1.35	44.70	0.02	0.60	0.00	0.00			0.013	0.00	106.32	106.31	106.31	106.31	0.00	23668.90	1.57		
1F to 1E	RCP CL2 RRU	34.73	825.00	0.54	0.20	500.00	8.95	76.69	0.22	47.80	8.38	79.22	0.21	46.70	47.80	60.00	107.80	642.20	0.17	0.20	0.89	1.15	1.20	108.00	105.76	105.69	107.89	0.60	1.19	45.20	0.02	0.69	0.00	0.00			0.013	0.00	106.32	106.32	106.32	106.32	0.01	19769.10	1.68		
1G to 1F	RCP CL2 RRU	2.54	825.00	0.54	0.20	500.00										60.00	60.00	642.20	0.09	0.11	0.75	0.98	1.20	108.00	105.78	105.78	108.00	0.60	1.20	-60.70	0.02	0.37	0.00	0.00			0.013	0.00	106.32	106.32	106.32	106.32	0.00	53260.50	1.68		
1H to 1G	RCP CL2 RRU	47.56	825.00	0.54	0.20	500.00										60.00	60.00	642.20	0.09	0.11	0.75	0.98	1.20	108.10	105.90	105.80	108.00	0.60	1.35	-29.30	0.02	2.09	3.24	0.00	0.00	0.00	0.013	0.00	106.32	106.32	106.32	106.32	0.00	36991.60	1.78		
1I to 1H	PVC	1.25	180.00	0.03	0.50	200.10										60.00	60.00	25.30	2.37	2.36	2.37	0.99	108.10	107.03	107.02	108.10	-1.00	-0.10	0.00	1.13	2.22	0.28	0.63			0.009	0.04	107.87	107.24	107.20	106.32	3.00	33.40	0.23			
2A to 1F	RCP CL2 RRU	33.02	375.00	0.11	0.40	250.00	8.37	79.28	0.20	44.60	7.80	81.80	0.19	43.20	44.60	60.00	110.90	110.90	0.40	0.40	0.95	1.06	1.00	107.80	105.91	105.78	108.00	0.60	1.37	0.50	0.02	0.67	0.01	0.01			0.013	0.02	106.35	106.34	106.32	106.32	0.06	1549.60	1.45		
2B to 2A	RCP CL2 RRU	32.64	375.00	0.11	0.40	250.00	7.79	81.88	0.18	41.80	7.22	84.41	0.17	40.20	41.80	60.00	110.90	110.90	0.38	0.38	0.93	1.04	1.00	107.80	106.06	105.93	107.80	0.60	1.14	-0.50	0.02	1.24	0.01	0.01			0.013	0.02	106.37	106.36	106.35	106.35	0.04	2238.50	1.43		
2C to 2B	RCP CL2 RRU	64.72	375.00	0.11	0.40	250.00	6.57	87.33	0.14	34.10	6.00	89.86	0.13	32.10	34.10	60.00	110.90	110.90	0.31	0.31	0.88	0.98	1.00	107.80	106.34	106.08	107.80	0.60	1.00	0.00	0.02	0.61	0.01	0.01			0.013	0.14	106.48	106.48	106.37	106.37	0.17	576.60	1.32		
2D to 2C	RCP CL2 RRU	31.95	375.00	0.11	0.50	200.00	6.00	89.86	0.13	32.00	6.00	89.86	0.13	32.00	32.00	60.00	124.00	124.00	0.26	0.29	0.94	0.96	1.12	107.80	106.52	106.36	107.80	0.30	0.74	0.00	0.02	7.00	0.00	0.03			0.013	0.16	106.68	106.65	106.49	106.48	0.51	197.90	1.12		
3B to 3A	RCP CL4 RRU	10.20	525.00	0.22	0.33	300.30	8.20	80.04	1.36	301.50	7.55	82.93	1.34	308.40	308.40	60.00	106.00	248.30	1.24	1.42	1.42	1.86	1.15	107.78	106.73	106.70	107.40	0.44	0.45	0.00		0.45	0.10	0.05			0.013	0.05	107.26	107.16	107.16	107.16	0.53	189.80	0.52		
3C to 3B	RCP CL4 RRU	25.42	525.00	0.22	0.33	300.30	7.86	81.54	1.18	267.70	7.35	85.85	1.17	273.30	273.30	60.00	106.00	248.30	1.10	1.26	1.26	1.76	1.15	107.90	106.84	106.75	107.78	0.44	0.44	-12.40	0.02	0.68	0.08	0.06			0.013	0.09	107.41	107.35	107.26	107.26	0.36	278.70	0.49		
3D to 3C	RCP CL4 RRU	30.54	525.00	0.22	0.33	300.30	7.47	83.29	0.95	219.30	7.01	85.34	0.94	223.40	223.40	60.00	106.00	248.30	0.90	1.03	1.30	1.62	1.15	108.00	106.96	106.86	107.90	0.50	0.55	1.50	0.02	1.06	1.10	0.05	0.06	0.06	0.013	0.08	107.55	107.49	107.41	107.41	0.27	370.90	0.45		
3E to 3D	RCP CL4 RRU	12.14	450.00	0.16	0.40	250.00	7.31	83.99	0.74	173.70	6.85	86.04	0.74	176.60	176.60	60.00	180.40	180.40	0.98	1.11	1.29	1.59	1.13	107.98	107.03	106.98	108.00	0.50	0.56	-42.70	0.02	0.71	0.06	0.04			0.013	0.05	107.64	107.59	107.55	107.55	0.38	260.70	0.34		
3F to 3E	RCP CL4 RRU	34.16	375.00	0.11	0.40	250.00	6.47	87.77	0.34	83.60	6.34	88.35	0.34	83.90	83.90	60.00	110.90	110.90	0.76	0.76	1.10	1.20	1.00	108.11	107.18	107.05	107.98	0.50	0.63	-48.10	0.02	1.46	0.03	0.04			0.013	0.08	107.76	107.72	107.64	107.64	0.23	437.00	0.35		
3G to 3F	RCP CL4 RRU	19.51	375.00	0.11	0.40	250.00	6.13	89.27	0.19	46.90	6.00	89.86	0.19	46.90	46.90	60.00	110.90	110.90	0.42	0.42	0.96	1.07	1.00	108.18	107.28	107.20	108.11	0.45	0.49	20.60	0.02	5.00	0.01	0.05			0.013	0.01	107.82	107.77	107.76	107.76	0.07	1400.20	0.36		
3H to 3G	PVC	10.17	150.00	0.02	1.00	100.00	6.00	89.86	0.05	13.20	6.00	89.86	0.05	13.20	13.20	60.00	22.00	22.00	0.60	0.75	1.30	0.98	1.25	108.21	107.40	107.30	108.18	0.40	0.77	22.60	0.02	2.00	0.03	0.06			0.009	0.04	107.91	107.86	107.82	107.82	0.36	277.80	0.30		
4A to 3B	RCP CL4 RRU	14.46	300.00	0.07	1.00	100.00	6.00	89.86	0.13	31.30	6.00	89.86	0.13	31.30	31.30	60.00	96.70	96.70	0.32	0.44	1.22	1.01	1.37	107.82	106.90	106.75	107.78	0.50	0.60	60.00	0.02	9.34	0.01	0.09			0.013	0.02	107.37	107.28	107.26	107.26	0.10	956.20	0.46		
5A to 3C	RCP CL4 RRU	8.65	375.00	0.11	0.60	166.70	6.15	89.19	0.13	32.10	6.00	89.86	0.13	32.00	32.10	60.00	135.90	135.90	0.24	0.29	1.01	0.96	1.23	107.90	106.94	106.89	107.90	0.50	0.55	91.20	0.05	3.18	3.80	0.00	0.01	0.02			0.013	0.00	107.43	107.41	107.41	107.41	0.03	2977.70	0.47
5B to 5A	PVC	8.05	150.00	0.02	0.40	250.00	6.00	89.86	0.06	14.20	6.00	89.86	0.06	14.20	14.20	60.00	124.00	124.00	0.20	0.23	0.89	1.02	0.79	107.92	107.20	107.10	107.90	0.40	0.69	-90.00	0.23	2.00	0.03	0.07			0.009	0.03	107.52	107.46	107.42	107.43	0.42	238.60	0.40		
6A to 3D	RCP CL4 RRU	8.50	375.00	0.11	0.50	200.00	6.27	88.65	0.15	36.30	6.00	89.86	0.14	35.90	36.30	60.00	124.00	124.00	0.29	0.33	0.97	0.99	1.12	108.00	107.05	107.01	108.00	0.50	0.54	89.70	0.05	2.28															



SERVICE VEHICLE

	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 38.7

REV	REVISION	DES	DWG	CHK	AUTH	DATE
I	CHANGES TO LOT 20-21 DRIVEWAY	-	JB	-	JB	10/06/25
H	CHANGES TO LINE 1B-1C	-	JB	-	JB	26/02/25
G	CHANGES TO LINE 1A-1C	-	JB	-	JB	25/02/25
F	ISSUED FOR CONSTRUCTION	-	JB	-	AR	28/11/24
E	AMENDED DRAINAGE PIT 9C	JB	JB	AR	AR	16/07/24
D	DRAINAGE PIT SCHEDULE UPDATE	JB	JB	AR	AR	04/03/24
C	AMENDMENTS AS PER COUNCIL COMMENTS	JB	JB	AR	AR	04/03/24



Tomkinson
 SURVEY > ENGINEERING > PLANNING > PROJECT MANAGEMENT
 HEAD OFFICE: 57 MYERS STREET BENDIGO PH 03 5445 8700
 ABN 11 103 336 358 WWW.TOMKINSON.COM

SCALE 1:250
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19 LOT RESIDENTIAL DEVELOPMENT
TOCUMWAL RD, NUMURKAH
SWEEP PATH ANALYSIS
 MOIRA SHIRE COUNCIL REF: 5/2022/73/2
 ST. JOHN THE BAPTIST PARISH NUMURKAH
 DWG STATUS: PROJECT & DWG No: 1104902R23 / 23
FOR CONSTRUCTION

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1. **Restrictive Covenants**

The parties agree that it shall be a condition of the sale or transfer of the Land that the purchaser or transferee and their successors in title agree to be bound by and to have recorded on the certificate of title the restrictive covenants set out below. The covenants are contained in a memorandum of common provisions registered at the Land Titles Office in dealing number AA3985.

"AND the transferee does hereby covenant for himself his executors administrators and assigns and as a separate covenant with the transferor and its transferees successors and assigns and the registered proprietor or proprietors for the time being of the land comprised in the plan of subdivision except the lot or lots hereby transferred that without the prior written consent of the transferor he:

1. Shall not erect on the land hereby transferred or cause to be erected or allow to remain erected on the land hereby transferred:
 - (i) Any more than one private dwelling house (which expression shall include a display home, a house, apartment, unit or flat);
 - (ii) Any dwelling house, garage, shed, outbuilding or fence using other than new materials;
 - (iii) Any dwelling house which has a floor area of less than 120 square meters including the outer walls thereof, such area being calculated by excluding the area of carports, garages, terraces, pergolas or verandahs;
 - (iv) Any building or the structure which is constructed wholly or partly of galvanised iron cladding or aluminium cladding;
 - (v) Any dwelling house unless not less than 80% of the external wall surfaces of such dwelling (excluding windows) are constructed of brick, brick veneer, brick cement render, stone, masonry or masonry veneer with texture coating and painted or coloured exterior surface;
 - (vi) Any detached garages, shed or outbuilding having an area in excess of 120 square metres or a height exceeding 4 metres;
 - (vii) Any fence unless such fence complies with the Special Conditions.
2. Shall not subdivide the land hereby transferred.
3. Shall not build or cause to be built or allow to be built or allow to remain more than one dwelling house (which expression shall include a house, apartment, unit or flat) on the burdened land.
4. Shall not use the land for any trade, industry or commerce save and except a display home.

And it is intended that the foregoing covenants shall be set out as encumbrances on the certificate of title issued or to issue for the land hereby transferred and shall run with that land for a period of 6 years from the date of this transfer of land."

2. **Numurkah Development**

- 2.1 The purchaser acknowledges that the Land forms part of the vendor's overall development of the land known as Numurkah Central (the Development).

- 2.2 The purchaser covenants that it will not directly or indirectly:
- 2.2.1 Hinder, delay or prevent the Development and its construction by the vendor;
 - 2.2.2 Hinder, delay or prevent the marketing activities of the vendor;
 - 2.2.3 Hinder or object to any application for any approval made by or on behalf of the vendor in relation to the Development; or
 - 2.2.4 Do anything which, in the vendor's opinion may curtail, inhibit or interfere or which may affect the Development of the Plan generally.
- 2.3 The purchaser indemnifies and will keep indemnified the vendor against all claims, loss, damage and costs for which the vendor may suffer in respect of any breach of special condition 2.2.
- 2.4 The purchaser:
- 2.4.1 Authorises the vendor to negotiate the terms of and enter into the Section 173 Agreement and any other agreement as may be required to be entered into with a relevant authority pursuant to the planning permit for the Development obtained by the vendor with reference to the purchaser;
 - 2.4.2 Authorises the vendor to amend the Section 173 Agreement and any other agreement entered into with a relevant authority;
 - 2.4.3 Must not make any requisition or object, delay settlement or claim any compensation in relation to any act, matter or thing contained in or required by the Section 173 Agreement;
 - 2.4.4 If required by the vendor, must do, and must procure its solicitors and mortgagee to do, all acts, matters and things, including executing all consents, orders and applications, necessary in order to have the Section 173 Agreement registered by the Land Registry;
 - 2.4.5 Acknowledges that the Section 173 Agreement will not constitute a defect in the vendor's title; and
 - 2.4.6 Acknowledges that any condition of the Section 173 Agreement which is not capable of being satisfied prior to registration of the Plan and which continues after the Settlement Date will become the responsibility of the purchaser so far as that condition relates to or affects the Land and the purchaser will indemnify and keep indemnified the vendor against any loss, or claim or liability arising from any breach of non-compliance with any such condition by the purchaser on and after Settlement Date.
- 2.5 The purchaser acknowledges that the vendor may install infrastructure including data transmission cables for the supply of telecommunications services which require an agreement to be entered into by the purchaser with a private supplier for the use of the data transmission cable.
- 2.6 The purchaser agrees and acknowledges that it will not hinder, object, obstruct or make any claim against the vendor in relation to the exercise by the vendor of any of the rights contained in this special condition 2.
- 2.7 The purchaser must not allow any rubbish including site excavations and building materials to accumulate on the Land (unless neatly stored in a suitable sized industrial bin or skip) or allow excessive growth of

grass or weeds upon the Land. The vendor or its agent may enter upon and have access over the Land at anytime for the purpose of removal of any rubbish, grass or weeds that accumulate in breach of this special condition and the purchaser shall pay the vendor's reasonable costs in doing so.

2.8 The purchaser must not erect to cause to be erected or allow to be erected or allow to remain or display cause to be displayed or allow to be displayed any sign, hoarding or advertising or any description whatsoever on the Land unless authorised by this contract. The vendor or its agent may enter upon and have access over the Land at any time for the purpose of removal of any sign, hoarding or advertising erected or displayed in breach of this special condition and the purchaser shall pay the vendor's reasonable costs in doing so.

2.9 The purchaser acknowledges that the vendor shall not be liable for the construction of any vehicle crossing from the kerb to the property boundary the said vehicle crossing shall be constructed by the Purchasers in their preferred location to Moira Shire Council's required specifications.

2.10 The purchaser acknowledges that they shall be responsible for the payment of any tapping and connection fees to the land hereby sold in respect of electricity supply from Powercor, telecommunication supply from NBN Co. ,gas supply and supply of water and sewerage from Goulburn Valley Water.

2.11 Landscaping

The purchaser shall ensure that Minimum front landscaping works are undertaken to the lot hereby purchased within 12 months of the purchaser obtaining a certificate of occupancy in respect to the construction of a dwelling on the property;

a) The purchaser will not permit the front yard to remain in a non-landscaped state after 6 months of receipt of any Occupancy Certificate.

b) All driveways are to be constructed as per Moira Shire Council standard

c) All driveways are to be completed within 3 months of certificate of occupancy

Any damage to the footpath or nature strip during the construction of any dwelling is the responsibility of the purchaser and their builder

2.12 The purchaser shall ensure the building works have completed within 2 years

3. **Planning Restrictions**

The purchaser buys subject to the Planning and Environment Act 1987 and to all relevant planning controls and restrictions on the use and / or development of the Land imposed by the Planning Scheme for the municipality in which the Land is situated including the Section 173 Agreement (if any) and Planning Permit issued in respect of the Land.

4. **Fencing**

4.1 The parties agree that the purchase price has been reduced by an amount calculated by the vendor to cover the vendor's estimated costs in respect of the contribution as adjoining proprietor to the cost of fencing the Land and the purchaser acknowledges that fact and shall make no claim on the vendor in respect of the cost of fencing the Land and any adjoining Land owned by the vendor.

- 4.2 In the event that the purchaser sells or transfers the Land to another person before the boundaries of the Land have been fenced then the purchaser covenants with the vendor that the purchaser shall, as a condition of such sale or transfer, require the purchaser or transferee to be bound by the requirements of this special condition on favour of the vendor.
- 4.3 The purchaser will not construct erect or build or cause to allow to be constructed erected or built on the rear boundary or any side boundary within the building alignment of the said lot any fence other than a fence of 1.8 metres in height to be constructed from Colorbond material in "Dune".
- 4.4 The purchaser irrevocably consents to the vendor exercising the rights contained in special condition 4.3 and acknowledges that the purchaser may not make any requisition, objection, delay settlement or claim compensation because the vendor exercises any of those rights.

5. **Whole Agreement**

- 5.1 The covenants, provisions, terms and agreements contained in this contract expressly or by statutory implication cover and comprise the whole of the agreement between the parties.
- 5.2 No further or other covenants agreements provisions or terms shall be deemed to be implied in this contract or to arise between the parties by way of collateral or other agreement by reason of any promise, representation, warranty or undertaking given or made by either party to the other on or before the execution of this contract.

6. **Telecommunications services**

- 6.1 The purchaser acknowledges that:
- 6.1.1 The vendor is not responsible for the connection of telecommunications services to the land beyond the installation of optical fibre conduits to the title boundary;
- 6.1.2 The vendor has no control over the timing of the connection of telecommunications services to the land which is solely the responsibility of the wholesale broadband provider engaged to connect such services;
- 6.1.3 If the wholesale broadband provider has not connected telecommunication services to the land when such services are required Telstra or such other provider as may be declared by the relevant authority is required to do so in accordance with the Universal Service Obligation;
- 6.1.4 The vendor has no control over the type of telecommunication service provided in accordance with the Universal Service Obligation.
- 6.2 The purchaser will make no objection or claim any compensation against the vendor in respect of the timing or type of telecommunication service provided to the land.

7. **No merger**

To the extent that any obligation or requirement of this contract has not been satisfied by a party at settlement the obligation or requirement shall not merge in the transfer of land and shall remain enforceable by the other party.