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SURVEY / ENGINEERING / PLANNING / PROJECT MANAGEMENT

HEAD OFFICE: 57 MYERS STREET BENDIGO PH 03 5445 8700



SCALE	1:2000	LENGTHS ARE IN METRES	20 0 20 40 60 80	ORIGINAL SHEET SIZE	A3	SURVEYORS REF NO.	1104902	VER	07	PLOTTED	11-10-2024	P.J.L.
Sheet 2												

SCALE
1:2000

20 0 20 40 60 80
LENGTHS ARE IN METRES

CHRISTOPHER SCOTT FRANKS

SHEET TWO

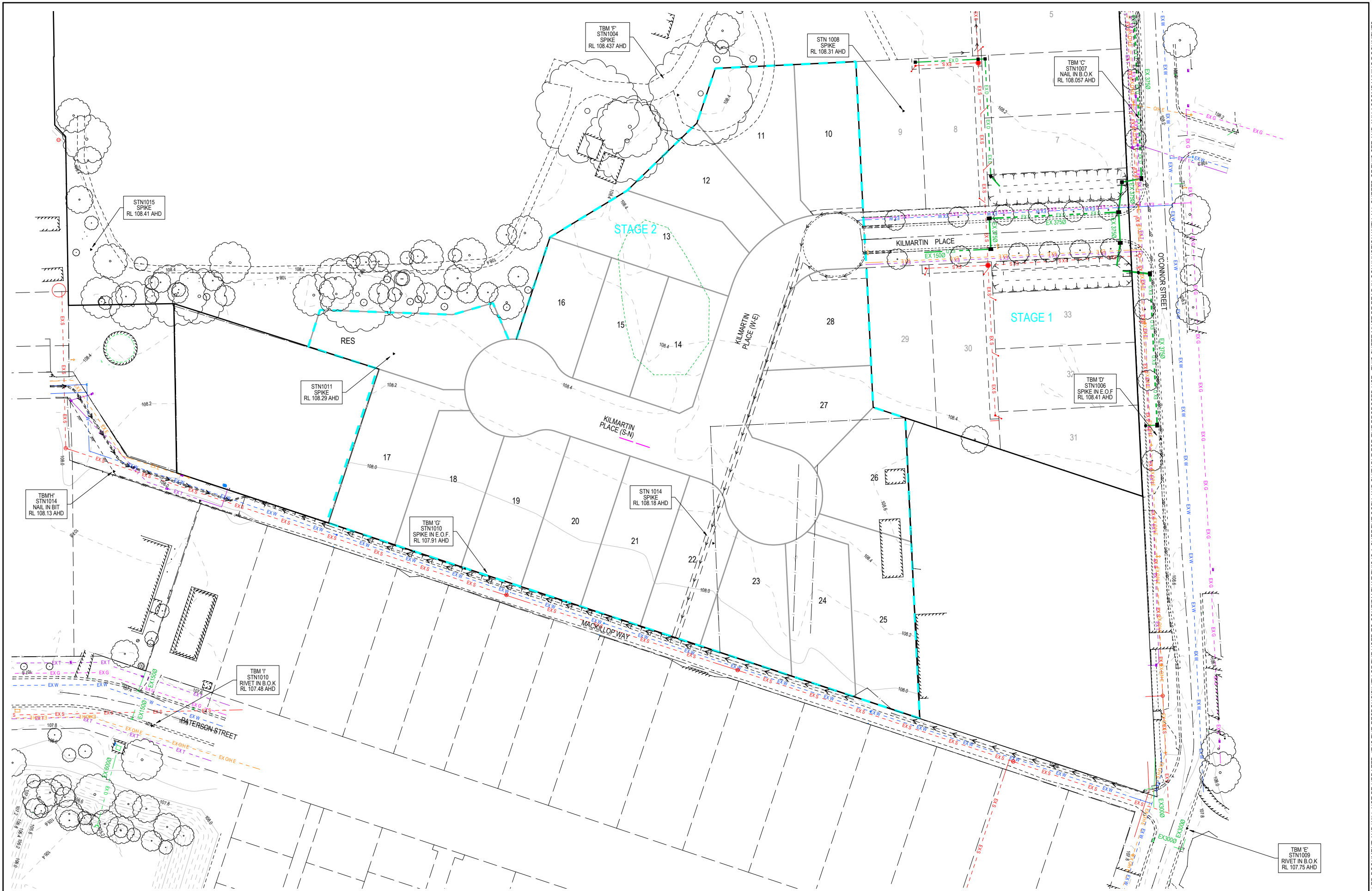
335



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ABN 11 103 338 358 WWW.TOMKINSON.COM

SCALE 1:500	5 0 5 10 15 20 LENGTHS ARE IN METRES	ORIGINAL SHEET SIZE A3	SURVEYORS REF No. 1104902	VER 07	PLOTTED 11-10-2024	P.J.L.
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CHRISTOPHER SCOTT FRANKS



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	AR			16/07/24
D	JB	AR			04/03/24
C	JB	AR			04/03/24

19 LOT RESIDENTIAL DEVELOPMENT
TOCUMWAL RD, NUMURKAH
EXISTING CONDITIONS / TBM PLAN
MOIRA SHIRE COUNCIL REF: 5/2022/73/2
ST. JOHN THE BAPTIST PARISH NUMURKAH
DWG STATUS: **FOR CONSTRUCTION**
PROJECT & DWG No: 1104902R03 / 23

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SCALE 1:1,000
LENGTHS ARE IN METRES - PAPER SIZE A3
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PLOT DATE: 02/07/2025 FILE: C:\12\DATA\TOMKINSON\1104902 - ST JOHN THE BAPTIST PARISH NUMURKAH, NUMURKAH, 2789\ENGINEERING\DOCUMENT\1104902 R&D PLANS REV1.DWG

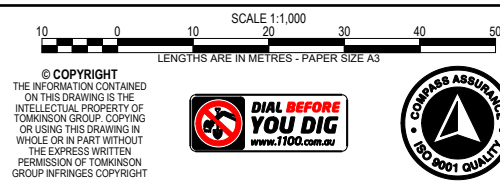
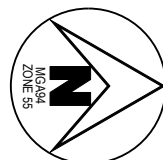
APPLIES IN ALL CASES UNLESS STATED OTHERWISE

- KERB TYPES:
 - • FRONTING LOTS = MODIFIED SM2 (IDM SD 100 - SM2-M)
 - ALL KERB RADI ARE TO LOOK
 - 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

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.



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
REV	REVISION	DES	DWG	CHK	AUTH	DATE

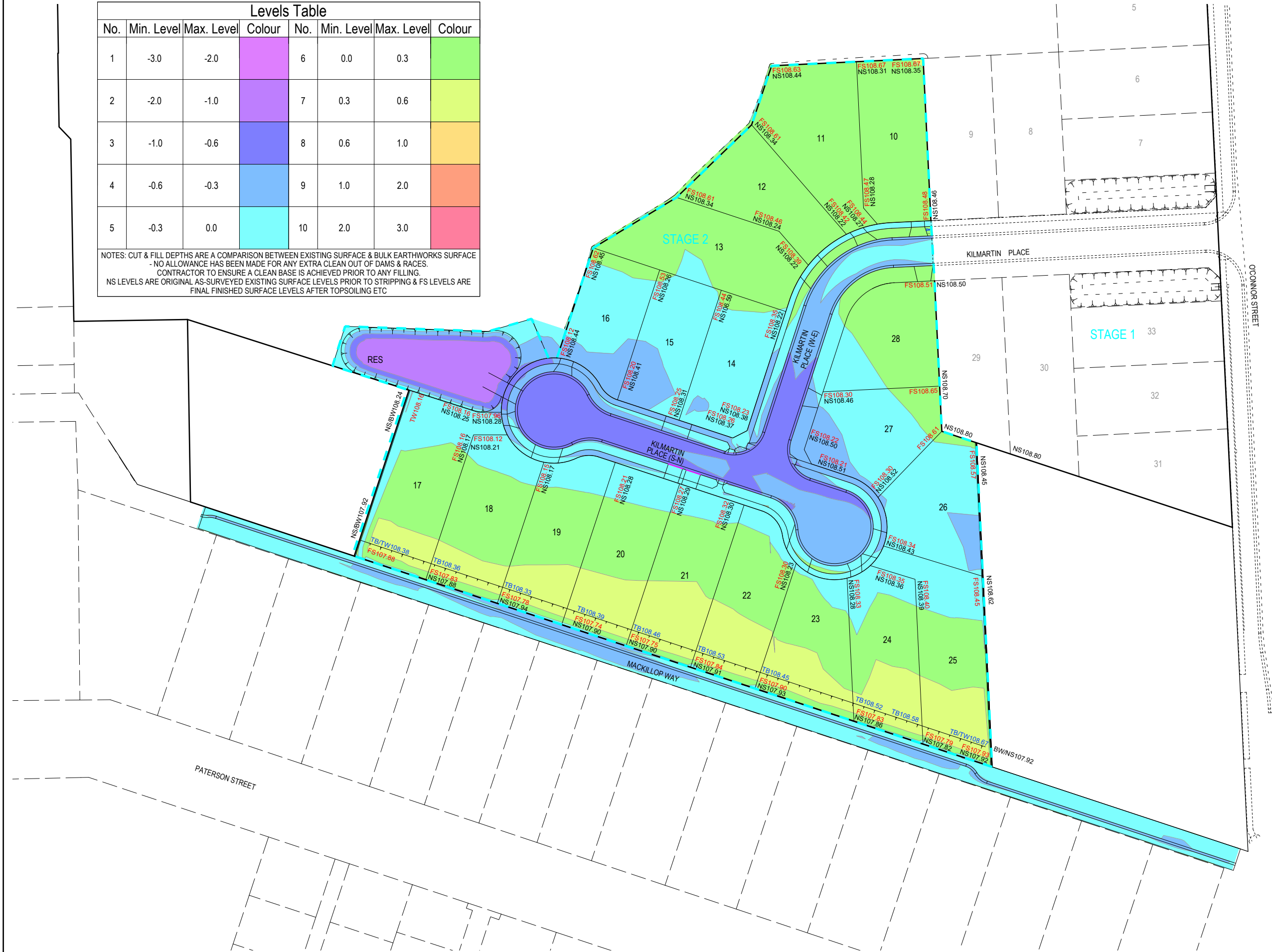


19 LOT RESIDENTIAL DEVELOPMENT TOCUMWAL RD, NUMURKAH DETAIL PLAN MOIRA SHIRE COUNCIL REF: 5/2022/73/2 ST. JOHN THE BAPTIST PARISH NUMURKAH

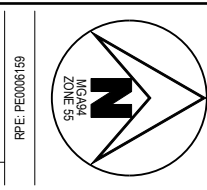
NOTE: THIS IS AN UNCONTROLLED DOCUMENT AND WILL NOT BE UPDATED - ST. JOHN THE BAPTIST PARISH NUNUKAT, NUMUNUKAT, L7B8N6S00(CANADACURRENT1) 04902 R&D SUPPLY FOR DWG
 FILE NO: 02107/2025 TITLE: CONCEPT DESIGN OF A NEW CHURCH BUILDING
 DATE: 02/07/2025 PROJECT NO: 02107/2025

Levels Table							
No.	Min. Level	Max. Level	Colour	No.	Min. Level	Max. Level	Colour
1	-3.0	-2.0		6	0.0	0.3	
2	-2.0	-1.0		7	0.3	0.6	
3	-1.0	-0.6		8	0.6	1.0	
4	-0.6	-0.3		9	1.0	2.0	
5	-0.3	0.0		10	2.0	3.0	

NOTES: CUT & FILL DEPTHS ARE A COMPARISON BETWEEN EXISTING SURFACE & BULK EARTHWORKS SURFACE
- NO ALLOWANCE HAS BEEN MADE FOR ANY EXTRA CLEAN OUT OF DAMS & RACES.
CONTRACTOR TO ENSURE A CLEAN BASE IS ACHIEVED PRIOR TO ANY FILLING.
NS LEVELS ARE ORIGINAL AS-SURVEYED EXISTING SURFACE LEVELS PRIOR TO STRIPPING & FS LEVELS ARE
FINAL FINISHED SURFACE LEVELS AFTER TOPSOILING ETC



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



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10 0 10 20 30 40 50
SCALE 1:1,000
LENGTHS ARE IN METRES - PAPER SIZE A3

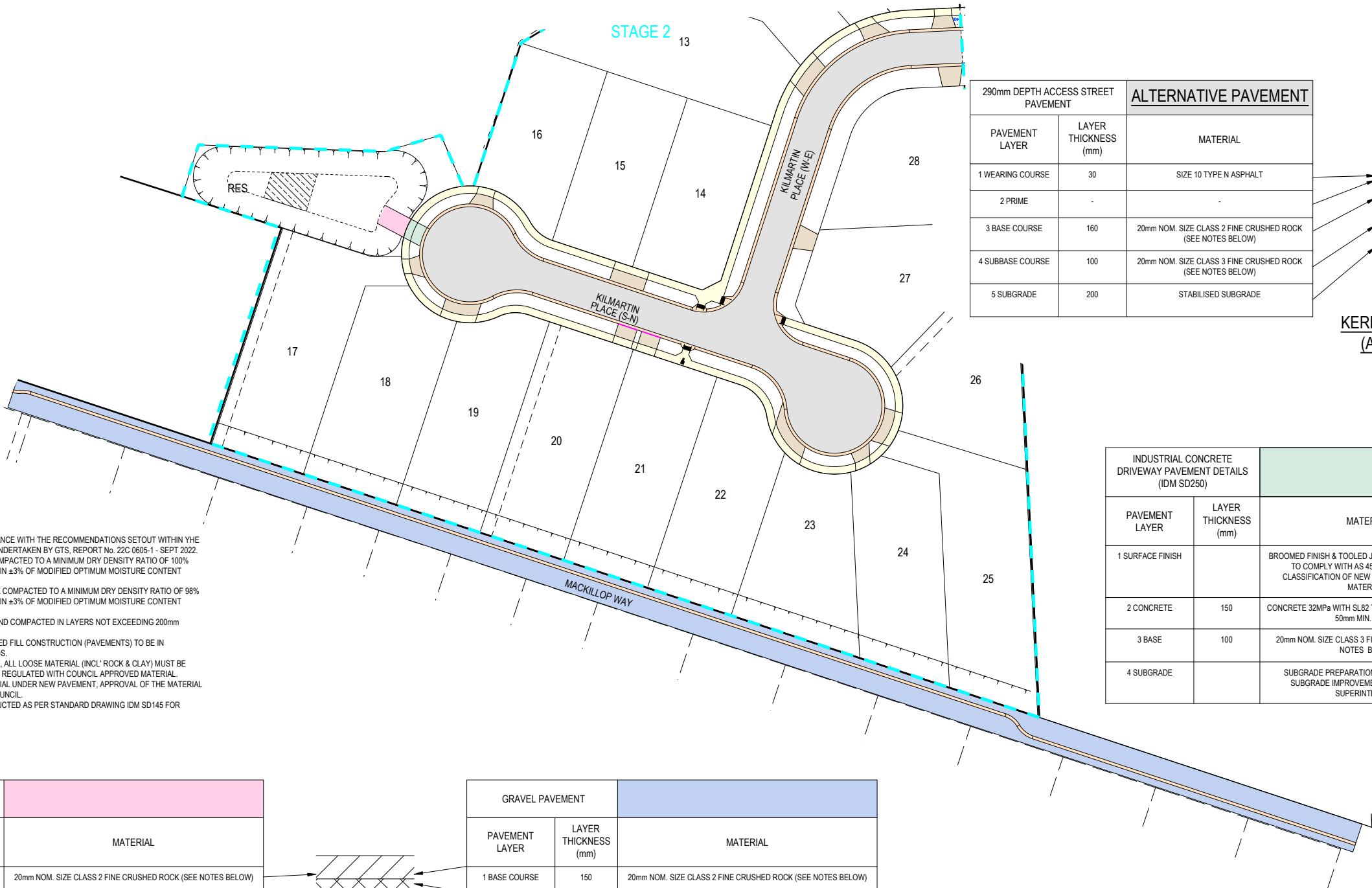
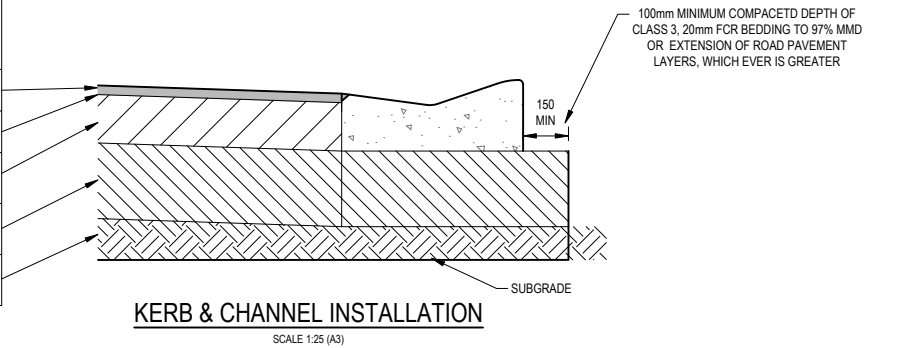
19 LOT RESIDENTIAL DEVELOPMENT
TOCUMWAL RD, NUMURKAH
CUT / FILL DEPTH RANGES & LOT LEVELS
MOIRA SHIRE COUNCIL REF: 5/2022/73/2
ST. JOHN THE BAPTIST PARISH NUMURKAH
DWG STATUS: PROJECT & DWG No: 1104902R05 / 23
FOR CONSTRUCTION

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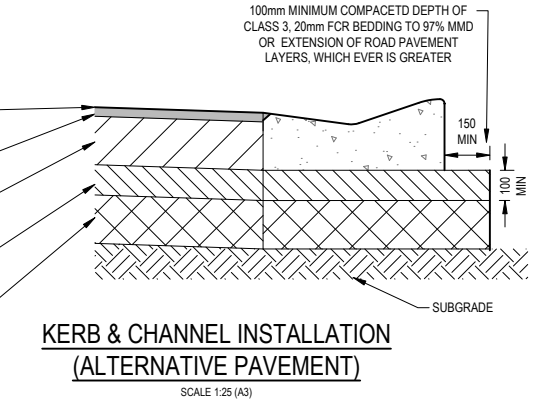
CONCRETE FOOTPATH & SHARED PATH PAVEMENT DETAILS (IDM SD 205)		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 SURFACE FINISH		BROOMED FINISH & TOOLED JOINTS. FINISHED SURFACE TO COMPLY WITH AS 4586 - SLIP RESISTANT CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS
2 CONCRETE	125	CONCRETE 32MPa WITH SL72 TOP REINFORCEMENT WITH 50mm MIN. COVER.
3 BASE	100	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTES BELOW)
4 SUBGRADE		SUBGRADE PREPARATION (SEE NOTES BELOW). SUBGRADE IMPROVEMENT AS DIRECTED BY SUPERINTENDENT

CONCRETE STD SINGLE & DOUBLE DRIVEWAY PAVEMENT DETAILS (IDM SD245)		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 SURFACE FINISH		BROOMED FINISH & TOOLED JOINTS. FINISHED SURFACE TO COMPLY WITH AS 4586 - SLIP RESISTANT CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS
2 CONCRETE	125	CONCRETE 32MPa WITH SL72 TOP REINFORCEMENT WITH 50mm MIN. COVER.
3 BASE	100	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTES BELOW)
4 SUBGRADE		SUBGRADE PREPARATION (SEE NOTES BELOW). SUBGRADE IMPROVEMENT AS DIRECTED BY SUPERINTENDENT

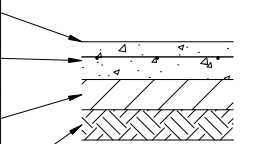
400mm DEPTH ACCESS STREET PAVEMENT		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 WEARING COURSE	30	SIZE 10 TYPE N ASPHALT
2 PRIME	-	-
3 BASE COURSE	160	20mm NOM. SIZE CLASS 2 FINE CRUSHED ROCK (SEE NOTES BELOW)
4 SUBBASE COURSE	210	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTES BELOW)
5 SUBGRADE	-	SUBGRADE IMPROVEMENT AS DIRECTED BY SUPERINTENDENT



290mm DEPTH ACCESS STREET PAVEMENT		ALTERNATIVE PAVEMENT
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 WEARING COURSE	30	SIZE 10 TYPE N ASPHALT
2 PRIME	-	-
3 BASE COURSE	160	20mm NOM. SIZE CLASS 2 FINE CRUSHED ROCK (SEE NOTES BELOW)
4 SUBBASE COURSE	100	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTES BELOW)
5 SUBGRADE	200	STABILISED SUBGRADE



INDUSTRIAL CONCRETE DRIVEWAY PAVEMENT DETAILS (IDM SD250)		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 SURFACE FINISH		BROOMED FINISH & TOOLED JOINTS. FINISHED SURFACE TO COMPLY WITH AS 4586 - SLIP RESISTANT CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS
2 CONCRETE	150	CONCRETE 32MPa WITH SL82 TOP REINFORCEMENT WITH 50mm MIN. COVER.
3 BASE	100	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTES BELOW)
4 SUBGRADE		SUBGRADE PREPARATION (SEE NOTES BELOW). SUBGRADE IMPROVEMENT AS DIRECTED BY SUPERINTENDENT



- PAVEMENT NOTES:
- A. ALL PAVEMENT DESIGNS ARE IN ACCORDANCE WITH THE RECOMMENDATIONS SETOUT WITHIN THE PAVEMENT INVESTIGATION AND DESIGN UNDERTAKEN BY GTS, REPORT No. 22C 0605-1 - SEPT 2022.
 - B. PAVEMENT BASE COURSES ARE TO BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 100% MODIFIED WITH MOISTURE CONTENT WITHIN $\pm 3\%$ OF MODIFIED OPTIMUM MOISTURE CONTENT (MOMC).
 - C. PAVEMENT SUBBASE COURSES ARE TO BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% MODIFIED WITH MOISTURE CONTENT WITHIN $\pm 3\%$ OF MODIFIED OPTIMUM MOISTURE CONTENT (MOMC).
 - D. PAVEMENT LAYERS SHOULD BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 200mm THICKNESS.
 - E. SUBGRADE PREPARATION AND ENGINEERED FILL CONSTRUCTION (PAVEMENTS) TO BE IN ACCORDANCE WITH RELEVANT STANDARDS.
 - F. WHEN PAVEMENT EXCAVATION IS IN ROCK, ALL LOOSE MATERIAL (INCL. ROCK & CLAY) MUST BE REMOVED. THE SUBGRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL.
 - G. PRIOR TO PLACEMENT OF THE FILL MATERIAL UNDER NEW PAVEMENT, APPROVAL OF THE MATERIAL TO BE USED MUST BE OBTAINED FROM COUNCIL.
 - H. ALL SUBSURFACE DRAINS TO BE CONSTRUCTED AS PER STANDARD DRAWING IDM SD145 FOR EXPANSIVE SUBGRADES.

MAINTENANCE ACCESS PAVEMENT		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 BASE COURSE	200	20mm NOM. SIZE CLASS 2 FINE CRUSHED ROCK (SEE NOTES BELOW)
2 EXISTING SUBGRADE		SUBGRADE IMPROVEMENT AS DIRECTED BY SUPERINTENDENT

GRAVEL PAVEMENT		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 BASE COURSE	150	20mm NOM. SIZE CLASS 2 FINE CRUSHED ROCK (SEE NOTES BELOW)
2 SUBBASE BASE	150	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTES BELOW)
3 EXISTING SUBGRADE		SUBGRADE IMPROVEMENT AS DIRECTED BY SUPERINTENDENT

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
REV	REVISION	DES	DWG	CHK	AUTH	DATE



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

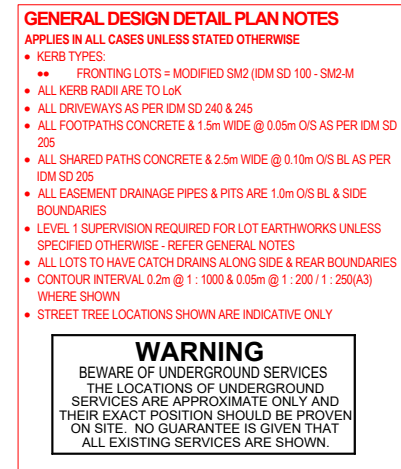
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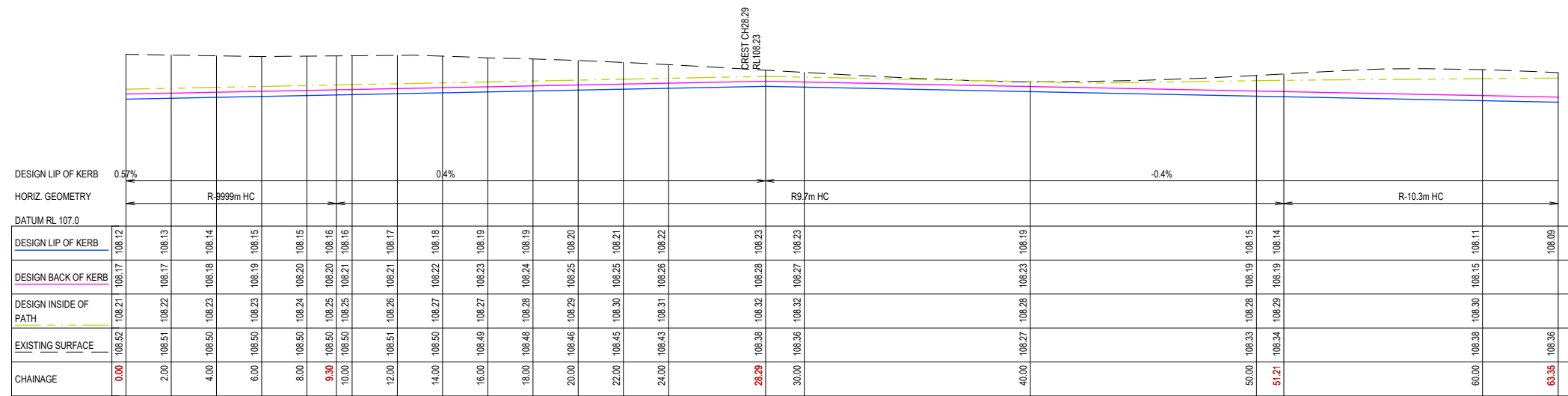
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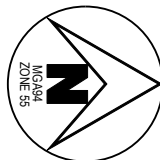
19 LOT RESIDENTIAL DEVELOPMENT
TOCUMWAL RD, NUMURKAH
PAVEMENT DETAILS
MOIRA SHIRE COUNCIL REF: 5/2022/73/2
ST. JOHN THE BAPTIST PARISH NUMURKAH
DWG STATUS: **FOR CONSTRUCTION**
PROJECT & DWG No: 1104902R06 / 23

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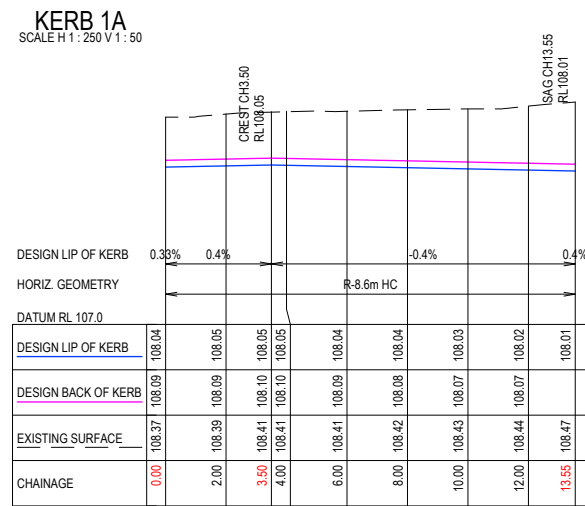
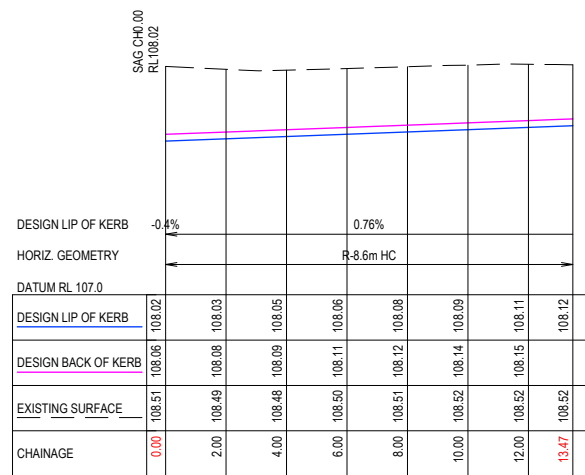




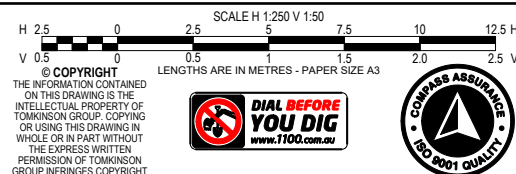
H	CHANGES TO LOT 20-21 DRIVEWAY	-	JB	-	JB	10/06/25
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REV	REVISION	DES	DWG	CHK	AUTH	DATE



BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND
SERVICES ARE APPROXIMATE ONLY AND
THEIR EXACT POSITION SHOULD BE PROVEN
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DWG STATUS: **FOR CONSTRUCTION** PROJECT & DWG No: 1104902R08 / 23



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 DATE: 02/07/2025
 ENR: C12/DATA/CMR/850_225/011/04902 - ST JOHN THE BAPTIST PARISH IN MIAMI
 RK/HA NIMURKHA 2789/FENC/CMR/CURRENT/104902 RAD PLANS BY URG

GENERAL DESIGN DETAIL PLAN NOTES

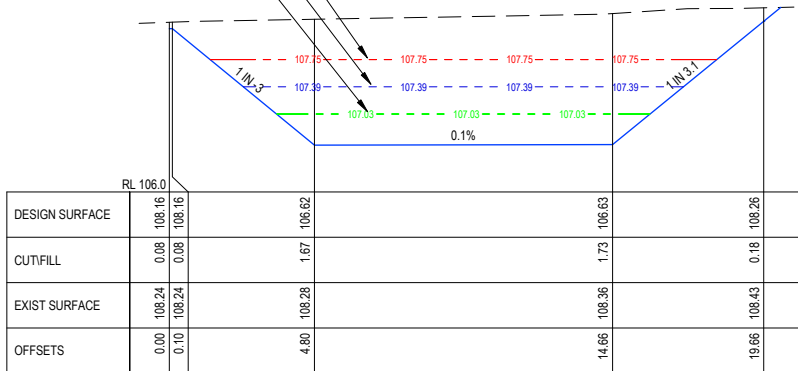
APPLIES IN ALL CASES UNLESS STATED OTHERWISE

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- 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

BWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND
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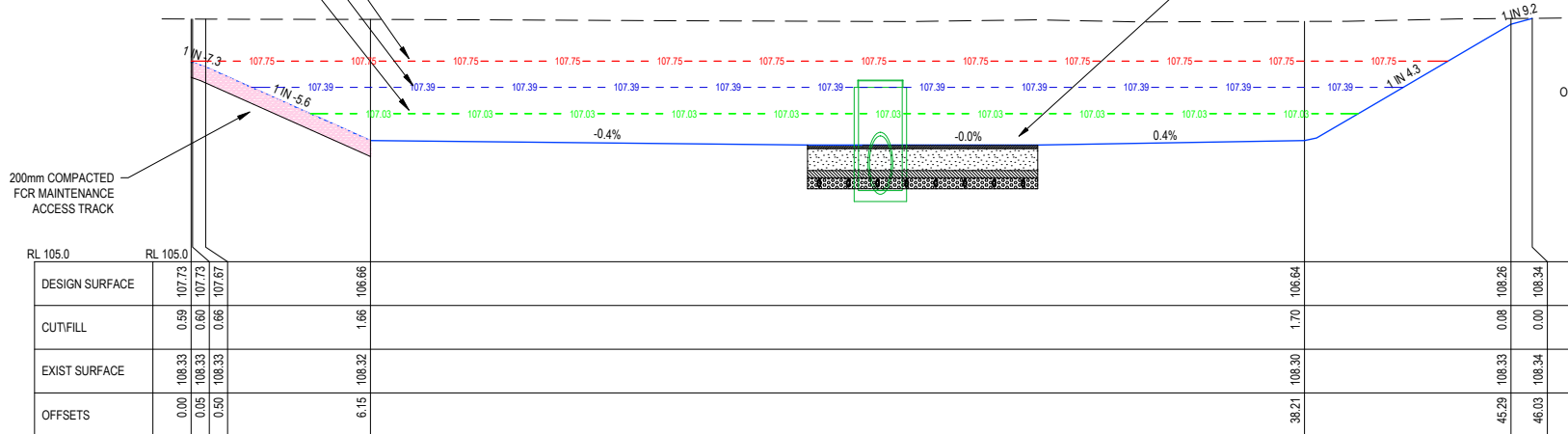
MAX CAPACITY = 476m³, RL = 107.75
20% AEP STORAGE = 152m³
EDD + 20% AEP CAPACITY = 277m³, RL = 107.39
EDD CAPACITY = 125m³, RL = 107.03



SECTION B-B

SCALE H 1:250 V 1:100

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 A-A

SCALE H 1:250 V 1:100

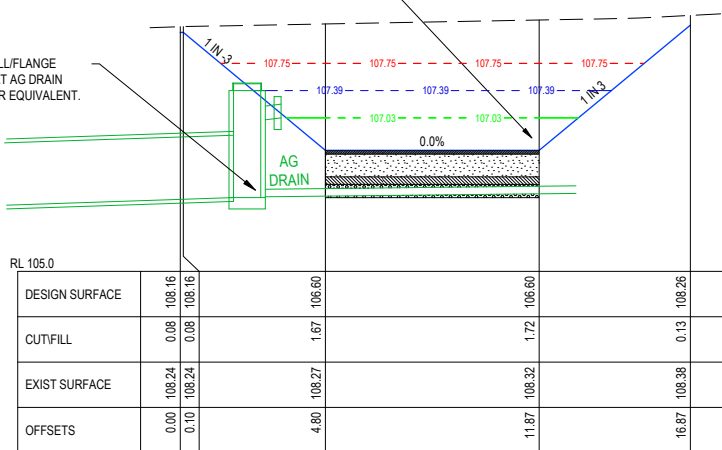
SURFACE LAYER
50mm IN-ORGANIC MULCH OR APPROVED EQUIVALENT
FILTER MEDIA LAYER
300mm DEPTH SANDY LOAM (HYDRAULIC CONDUCTIVITY OF 180mm/hr)
TRANSITION LAYER
100mm DEPTH COURSE SAND
DRAINAGE LAYER
150mm DEPTH 7mm SCREENINGS
AG PIPE
UNSOCKETED 100mm @ 1m SPACING
VEGETATION
REFER LANDSCAPE PLAN BY OTHERS

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

LEGEND

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

PROVIDE SUITABLE WALL/FLANGE
MOUNTED FLAP VALVE AT AG DRAIN
OUTLET. FERNCO FV100 OR EQUIVALENT.



SECTION C-C

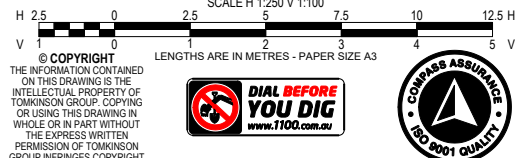
SCALE H 1:250 V 1:100

- I CHANGES TO LOT 20-21 DRIVEWAY
- H CHANGES TO LINE 1B-1C
- G CHANGES TO LINE 1A-1C
- F ISSUED FOR CONSTRUCTION
- E AMENDED DRAINAGE PIT 9C
- D DRAINAGE PIT SCHEDULE UPDATE
- C AMENDMENTS AS PER COUNCIL COMMENTS

- JB - JB 10/06/25
- JB - JB 26/02/25
- JB - JB 25/02/25
- JB - AR 28/11/24
- JB JB AR AR 16/07/24
- JB JB AR AR 04/03/24
- JB JB AR AR 04/03/24



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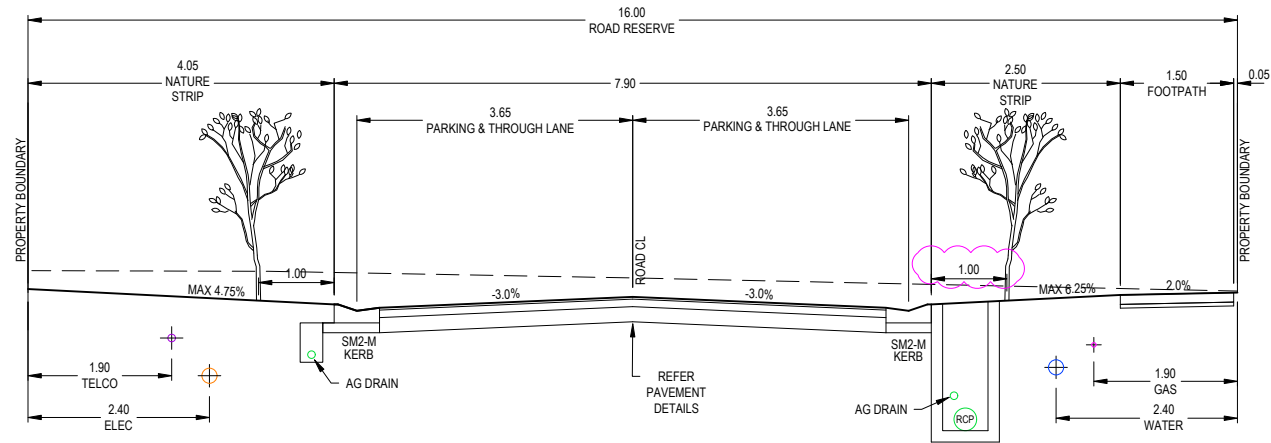


19 LOT RESIDENTIAL DEVELOPMENT
TOCUMWAL RD, NUMURKAH
BASIN DETAILS

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

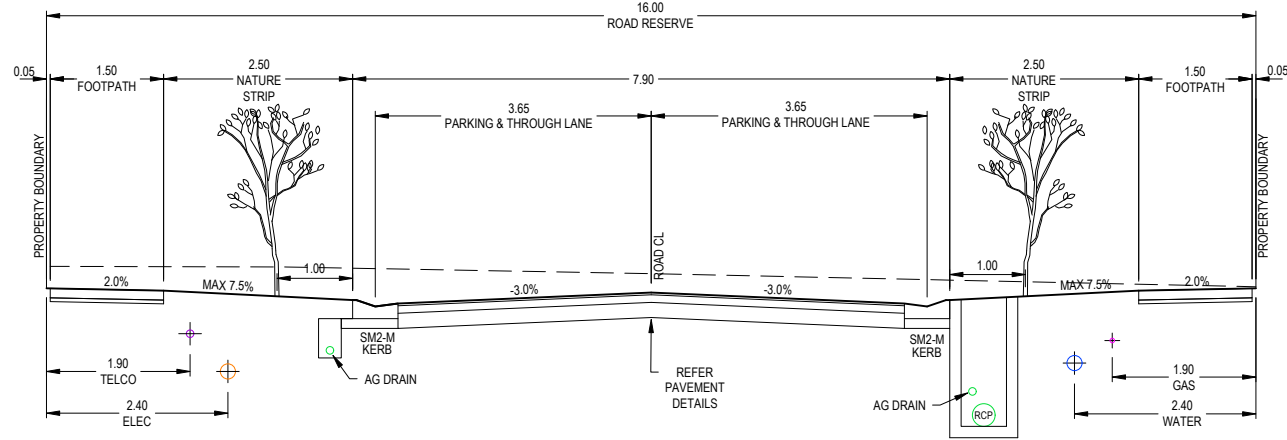
DWG STATUS: **FOR CONSTRUCTION** PROJECT & DWG No: 1104902R09 / 23 REV: 1

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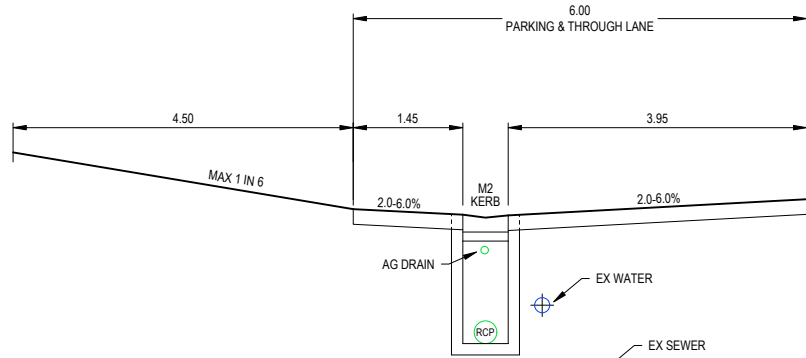
TYPICAL SECTION - KILMARTIN PLACE (W-E)

SCALE 1:100



TYPICAL SECTION - KILMARTIN PLACE (S-N)

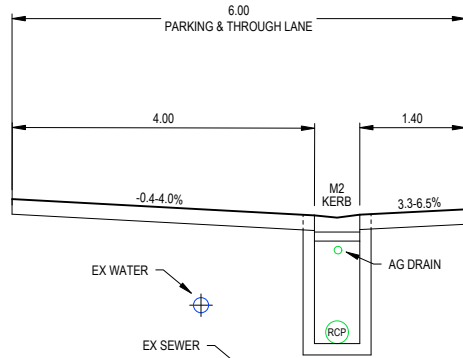
SCALE 1:100



TYPICAL SECTION - MACKILLOP WAY

CH14 - CH223.67

SCALE 1:100



TYPICAL SECTION - MACKILLOP WAY

CH230.98 - CH300

SCALE 1:100

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
REV	REVISION	DES	DWG	CHK	AUTH	DATE

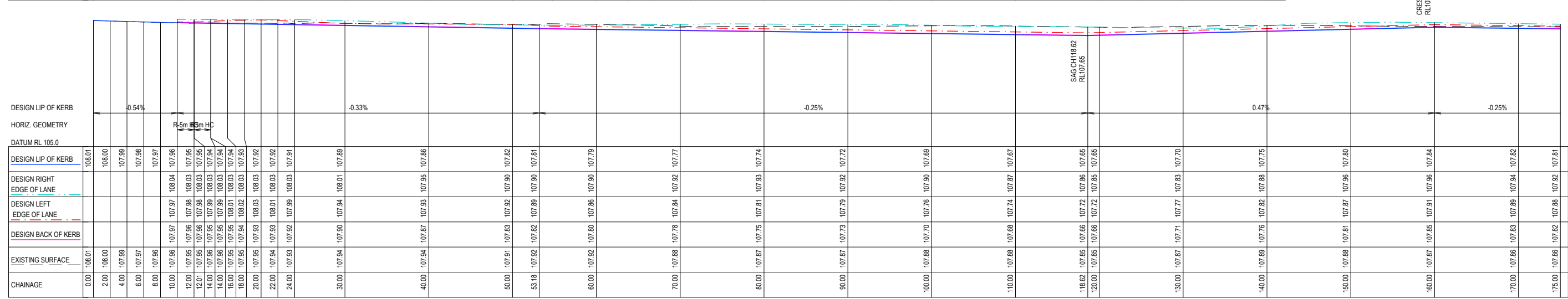
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19 LOT RESIDENTIAL DEVELOPMENT
TOCUMWAL RD, NUMURKAH
TYPICAL SECTIONS
MOIRA SHIRE COUNCIL REF: 5/2022/73/2
ST. JOHN THE BAPTIST PARISH NUMURKAH
DWG STATUS: PROJECT & DWG No: 1104902R10 / 23
FOR CONSTRUCTION

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PLOT DATE: 02/07/2025 FILE: C:\12\DATA\TOMM66C-12DS01110492 - ST JOHN THE BAPTIST PARISH NUMURKAH\1104902 R&D PLANS REV1.DWG



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RL 107.0					
DESIGN SURFACE	0.00	107.97			
CUT/FILL	0.00	107.97	-0.01	107.96	
EXIST SURFACE	107.97	107.96	107.95	108.03	
OFFSETS	-2.83	-0.60	0.00	3.17	

CH 10

RL 107.0					
DESIGN SURFACE	0.00	107.93			
CUT/FILL	0.00	107.93	0.06	107.87	
EXIST SURFACE	107.93	107.94	107.95	107.95	
OFFSETS	-2.05	-0.60	0.00	3.95	

CH 40

RL 106.5					
DESIGN SURFACE	0.00	107.79			
CUT/FILL	0.00	107.79	0.10	107.73	
EXIST SURFACE	107.79	107.87	107.87	107.92	
OFFSETS	-2.05	-0.60	0.00	3.95	

CH 90

RL 106.5					
DESIGN SURFACE	0.00	107.81			
CUT/FILL	0.00	107.81	0.09	107.78	
EXIST SURFACE	107.81	107.86	107.89	107.88	
OFFSETS	-2.05	-0.60	0.00	3.95	

CH 140

MACKILLOP WAY

RL 107.0					
DESIGN SURFACE	0.00	107.98			
CUT/FILL	0.00	107.98	0.01	107.96	
EXIST SURFACE	107.98	107.96	107.95	108.03	
OFFSETS	-2.64	-0.60	0.00	3.86	

CH 12.01

RL 107.0					
DESIGN SURFACE	0.00	107.92			
CUT/FILL	0.00	107.92	0.06	107.83	
EXIST SURFACE	107.92	107.91	107.82	107.90	
OFFSETS	-2.05	-0.60	0.00	3.95	

CH 50

RL 106.5					
DESIGN SURFACE	0.00	107.76			
CUT/FILL	0.00	107.76	0.15	107.70	
EXIST SURFACE	107.76	107.85	107.88	107.69	
OFFSETS	-2.05	-0.60	0.00	3.95	

CH 100

RL 107.0					
DESIGN SURFACE	0.00	107.86			
CUT/FILL	0.00	107.86	0.03	107.80	
EXIST SURFACE	107.86	107.84	107.79	107.96	
OFFSETS	-2.05	-0.60	0.00	3.95	

CH 150

RL 106.5					
DESIGN SURFACE	0.00	107.81			
CUT/FILL	0.00	107.81	0.07	107.75	
EXIST SURFACE	107.81	107.82	107.74	107.90	
OFFSETS	-2.05	-0.60	0.00	3.95	

CH 200

RL 106.5					
DESIGN SURFACE	0.00	107.83			
CUT/FILL	0.00	107.83	0.11	107.77	
EXIST SURFACE	107.83	107.87	107.76	107.86	
OFFSETS	-4.98	-0.60	0.00	1.51	

CH 230

RL 107.0					
DESIGN SURFACE	0.00	107.99			
CUT/FILL	0.00	107.99	0.02	107.95	
EXIST SURFACE	107.99	107.97	107.94	108.03	
OFFSETS	-2.05	-0.60	0.00	3.95	

CH 14

RL 107.0					
DESIGN SURFACE	0.00	107.86			
CUT/FILL	0.00	107.86	0.07	107.80	
EXIST SURFACE	107.86	107.87	107.79	107.90	
OFFSETS	-2.05	-0.60	0.00	3.95	

CH 60

RL 106.5					
DESIGN SURFACE	0.00	107.74			
CUT/FILL	0.00	107.74	0.17	107.68	
EXIST SURFACE	107.74	107.85	107.67	107.87	
OFFSETS	-2.05	-0.60	0.00	3.95	

CH 110

RL 107.0					
DESIGN SURFACE	0.00	107.90			
CUT/FILL	0.00	107.90	0.02	107.85	
EXIST SURFACE	107.90	107.82	107.84	107.96	
OFFSETS	-2.05	-0.60	0.00	3.95	

CH 160

RL 106.5					
DESIGN SURFACE	0.00	107.79			
CUT/FILL	0.00	107.79	0.10	107.73	
EXIST SURFACE	107.79	107.83	107.72	107.90	
OFFSETS	-2.05	-0.60	0.00	3.95	

CH 210

RL 106.5					
DESIGN SURFACE	0.00	107.94			
CUT/FILL	0.00	107.94	-0.02	107.78	
EXIST SURFACE	107.94	107.92	107.75	107.86	
OFFSETS	-4.60	-0.60	0.00	1.40	

CH 230.98

RL 107.0					
DESIGN SURFACE	0.00	108.03			
CUT/FILL	0.00	108.03	0.03	107.93	
EXIST SURFACE	108.03	107.96	107.92	108.03	
OFFSETS	-2.05	-0.60	0.00	3.95	

CH 20

RL 106.5					
DESIGN SURFACE	0.00	107.84			
CUT/FILL	0.00	107.84	0.06	107.78	
EXIST SURFACE	107.84	107.84	107.77	107.92	
OFFSETS	-2.05	-0.60	0.00	3.95	

CH 70

RL 106.5					
DESIGN SURFACE	0.00	107.72			
CUT/FILL	0.00	107.72	0.16	107.66	
EXIST SURFACE	107.72	107.82	107.65	107.85	
OFFSETS	-2.05	-0.60	0.00	3.95	

CH 120

RL 107.0					
DESIGN SURFACE	0.00	107.89			
CUT/FILL	0.00	107.89	0.05	107.83	
EXIST SURFACE	107.89	107.82	107.82	107.94	
OFFSETS	-2.05	-0.60	0.00	3.95	

CH 170

RL 106.5					
DESIGN SURFACE	0.00	107.79			
CUT/FILL	0.00	107.79	0.05	107.73	
EXIST SURFACE	107.79	107.82	107.73	107.89	
OFFSETS	-2.05	-0.60	0.00	3.95	

CH 220

RL 107.0					
DESIGN SURFACE	0.00	107.94			
CUT/FILL	0.00	107.94	0.07	107.81	
EXIST SURFACE	107.94	107.89	107.80	107.86	
OFFSETS	-4.60	-0.60	0.00	1.40	

CH 240

RL 107.0					
DESIGN SURFACE	0.00	107.94			
CUT/FILL	0.00	107.94	0.04	107.90	
EXIST SURFACE	107.94	107.94	107.89	108.01	
OFFSETS	-2.05	-0.60	0.00	3.95	

CH 30

RL 106.5					
DESIGN SURFACE	0.00	107.81			
CUT/FILL	0.00	107.81	0.07	107.75	
EXIST SURFACE	107.81	107.83	107.74	107.83	
OFFSETS	-2.05	-0.60	0.00	3.95	

CH 80

RL 106.5					
DESIGN SURFACE	0.00	107.76			
CUT/FILL	0.00	107.76	0.15	107.70	
EXIST SURFACE	107.76	107.85	107.69	107.83	
OFFSETS	-2.05	-0.60	0.00	3.95	

CH 130

RL 107.0					
DESIGN SURFACE	0.00	107.86			
CUT/FILL	0.00	107.86	0.05	107.80	
EXIST SURFACE	107.86	107.81	107.79	107.91	
OFFSETS	-2.05	-0.60	0.00	3.95	

CH 180

RL 106.5					
DESIGN SURFACE	0.00	107.81			
CUT/FILL	0.00	107.81	0.05	107.75	
EXIST SURFACE	107.81	107.80	107.74	107.88	
OFFSETS	-2.05	-0.60	0.00	3.95	

CH 223.67

RL 107.0					
DESIGN SURFACE	0.00	107.94			
CUT/FILL	0.00	107.94	0.05	107.84	
EXIST SURFACE	107.94	107.89	107.83	107.90	
OFFSETS	-4.60	-0.60	0.00	1.40	

CH 250

RL 107.0					
DESIGN SURFACE	0.00	107.82			
CUT/FILL	0.00	107.82	-0.02	107.86	
EXIST SURFACE	107.82	107.85	107.85	107.79	
OFFSETS	-4.60	-0.60	0.00	1.40	

CH 299.97

RL 106.5					
DESIGN SURFACE	0.00	107.82			
CUT/FILL	0.00	107.82	0.08	107.79	
EXIST SURFACE	107.82	107.86	107.78	107.85	
OFFSETS	-4.60	-0.60	0.00	1.40	

CH 290

RL 106.5					
DESIGN SURFACE	0.00	107.82			
CUT/FILL	0.00	107.82	-0.60	107.76	
EXIST SURFACE	107.82	107.87	107.75	107.82	
OFFSETS	-4.60	-0.60	0.00	1.40	

CH 280

RL 107.0					
DESIGN SURFACE	0.00	107.90			
CUT/FILL	0.00	107.90	0.06	107.80	
EXIST SURFACE	107.90	107.87	107.79	107.84	
OFFSETS	-4.60	-0.60	0.00	1.40	

CH 270

RL 107.0					
DESIGN SURFACE	0.00	107.97			
CUT/FILL	0.00	107.97	0.05	107.84	
EXIST SURFACE	107.97	107.89	107.83	107.88	
OFFSETS	-4.60	-0.60	0.00	1.40	

CH 260

MATCH INTO
EXISTING SURFACE

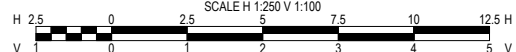
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H	JB	JB			26/02/25	
G	JB	JB			25/02/25	
F	JB	AR			28/11/24	
E	JB	AR			16/07/24	
D	JB	AR			04/03/24	
C	JB	AR			04/03/24	
REV	DES	DWG	CHK	AUTH	DATE	REVISION



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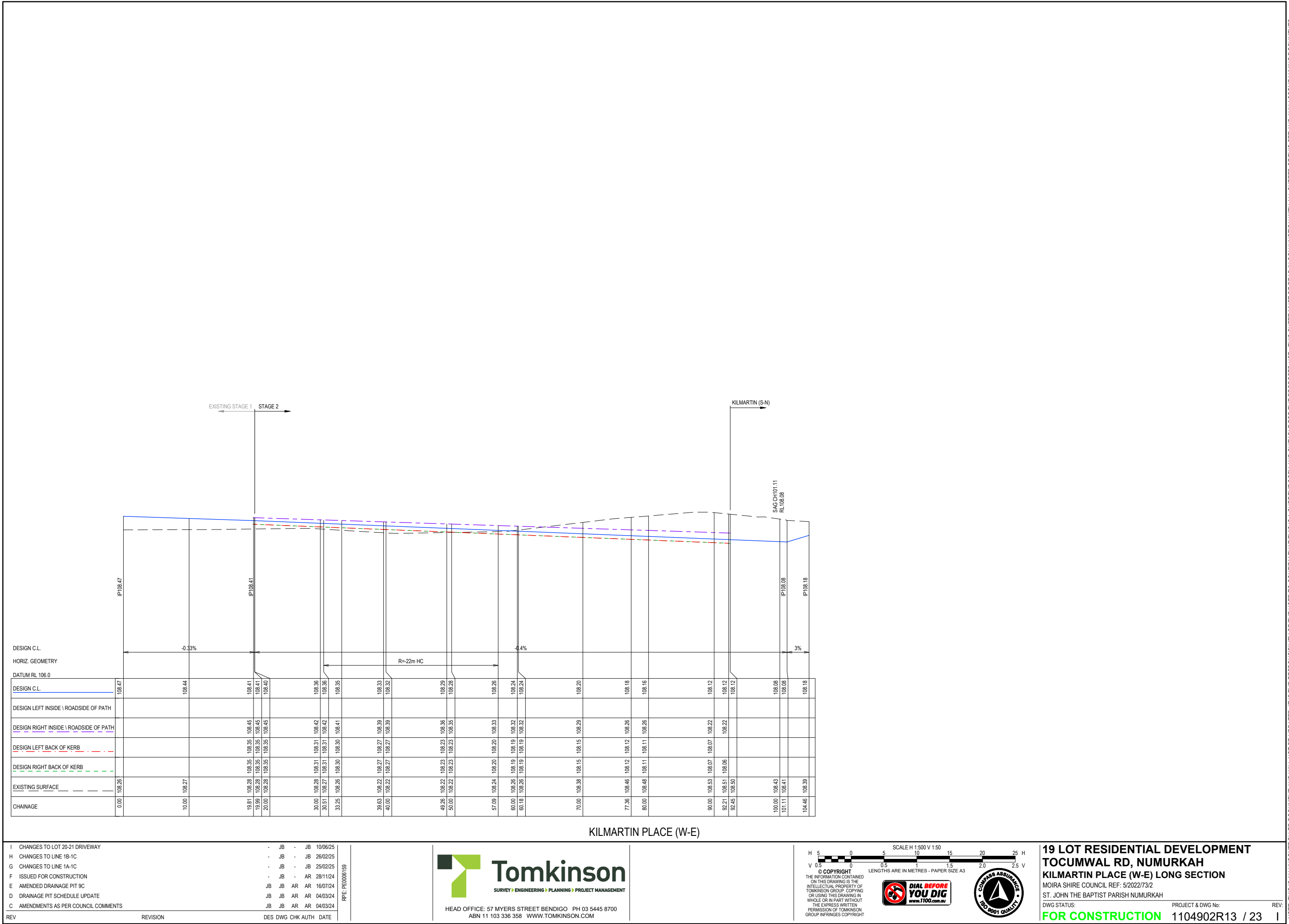


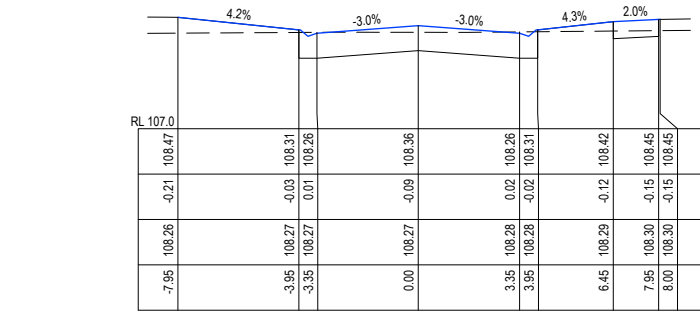
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19 LOT RESIDENTIAL DEVELOPMENT
TOCUMWAL RD, NUMURKAH
MACKILLOP WAY CROSS SECTIONS
MOIRA SHIRE COUNCIL REF: 5/2022/73/2
ST. JOHN THE BAPTIST PARISH NUMURKAH

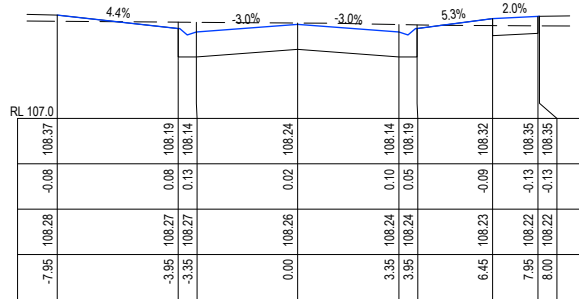
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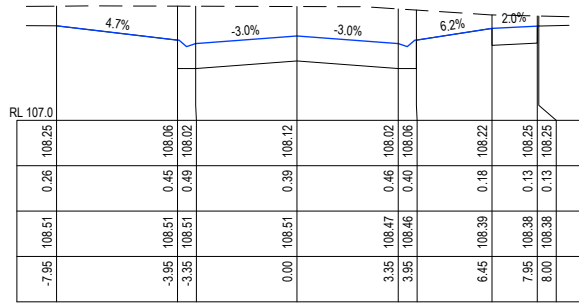




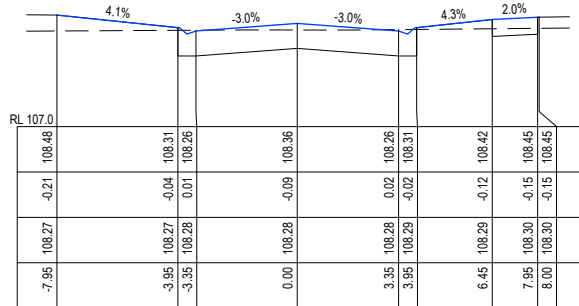
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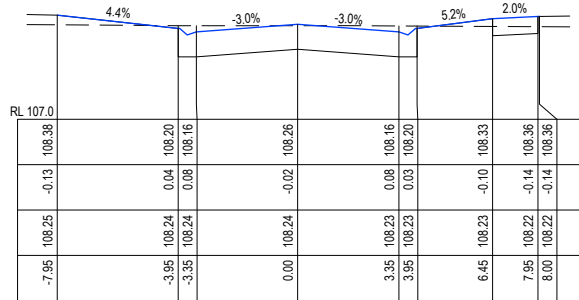
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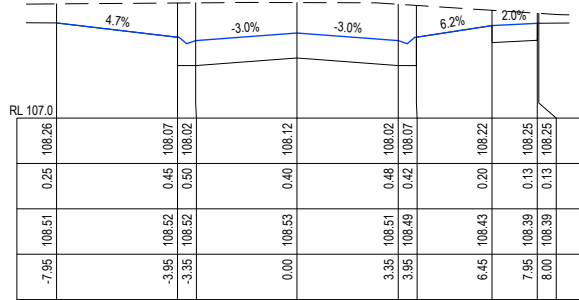
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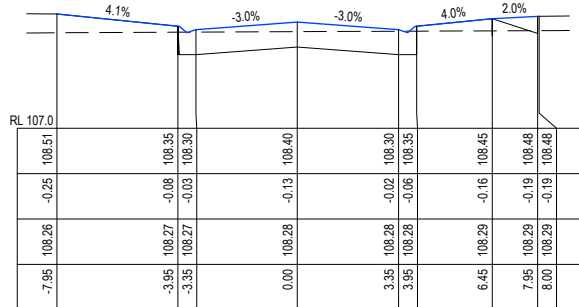
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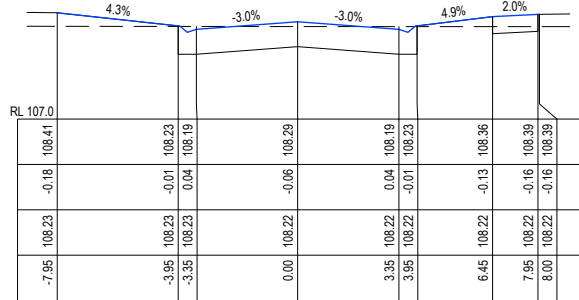
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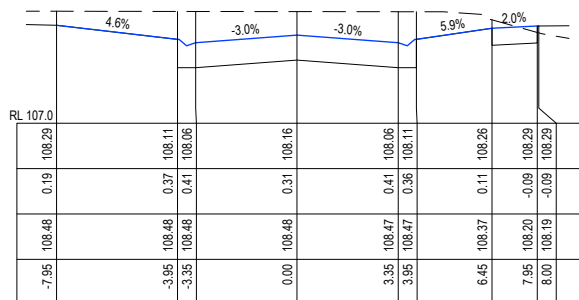
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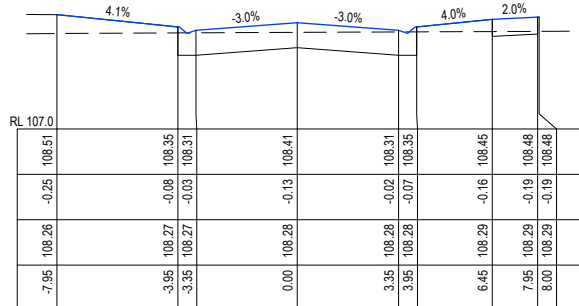
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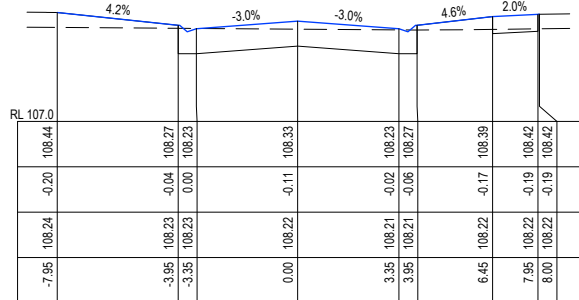
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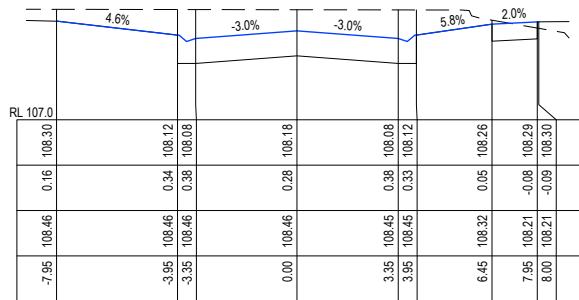
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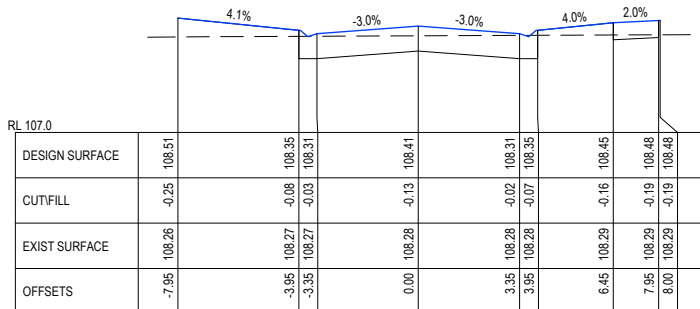
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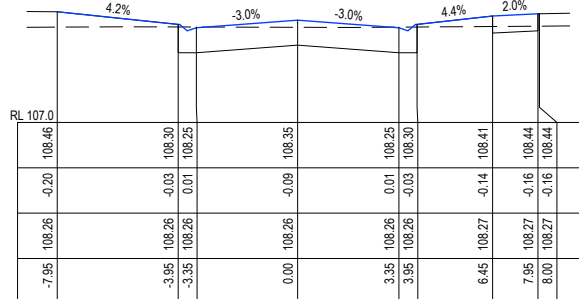
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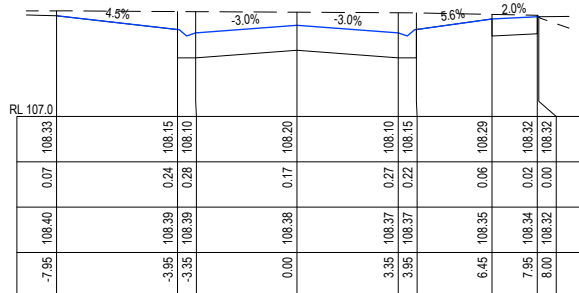
CH 77.36



CH 19.75



CH 33.25



CH 70

KILMARTIN PLACE (W-E)

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
REV	REVISION	DES	DWG	CHK	AUTH	DATE

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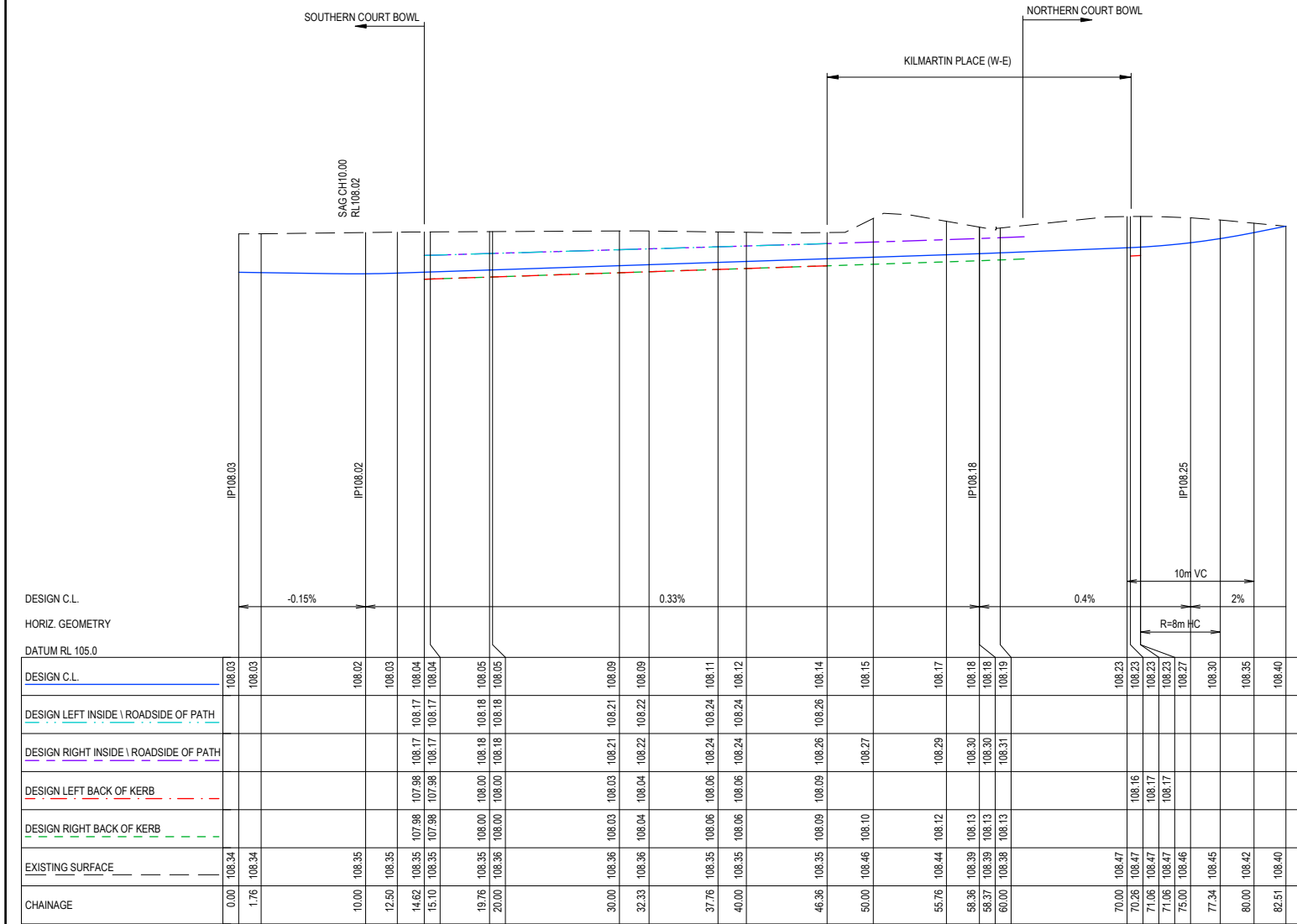
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19 LOT RESIDENTIAL DEVELOPMENT
TOCUMWAL RD, NUMURKAH
KILMARTIN PLACE (W-E) CROSS SECTION
MOIRA SHIRE COUNCIL REF: 5/2022/73/2
ST. JOHN THE BAPTIST PARISH NUMURKAH

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KILMARTIN PLACE (S-N)

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
REV	REVISION	DES	DWG	CHK	AUTH	DATE

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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: **FOR CONSTRUCTION**

PROJECT & DWG No:

1104902R15 / 23

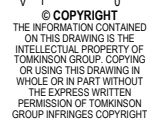
REV:

1

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PLOT DATE: 02/07/2025 FILE: C:\120\DATA\TOMKING-120501104902 - ST JOHN THE BAPTIST PARISH NUMURKAH\1104902 R&D PLANS REV1.DWG



KILMARTIN PLACE (S-N)

RPE: PE0006159RE
I

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PLOT DATE: 02/07/2025 FILE: C:\2D\DATA\TOM\GGO-1235\11\104932 - ST JOHN THE BAPTIST PARISH NUMJURKAH, NUMJURKAH_2789\ENG00\CAD\CURRENT\11\0492_R&D_PLANS_REV.DWG

LOT 17 RETAINING WALL
SCALE H 1 : 500 V 1 : 50

A	CHANGES TO LOT 20-21 DRIVEWAY	-	JB	-	JB	10/06/25	RPE: PE0006159	
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		
REV	REVISION	DES	DWG	CHK	AUTH	DATE		HEAD OFFICE

A	CHANGES TO LOT 20-21 DRIVEWAY	-	JB	-	JB	10/06/25	RPE: PE0006159	
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		
REV	REVISION	DES	DWG	CHK	AUTH	DATE		HEAD OFFICE

EXISTING FENCE

TIMBER RETAINING WALL

AG. DRAIN TO NEAREST DRAINAGE PIT

RETAINING WALL FOOTINGS TO BE CONTAINED ENTIRELY WITHIN ONE PROPERTY

PROPERTY BOUNDARY

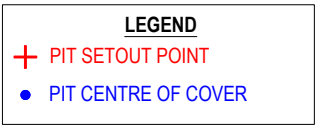
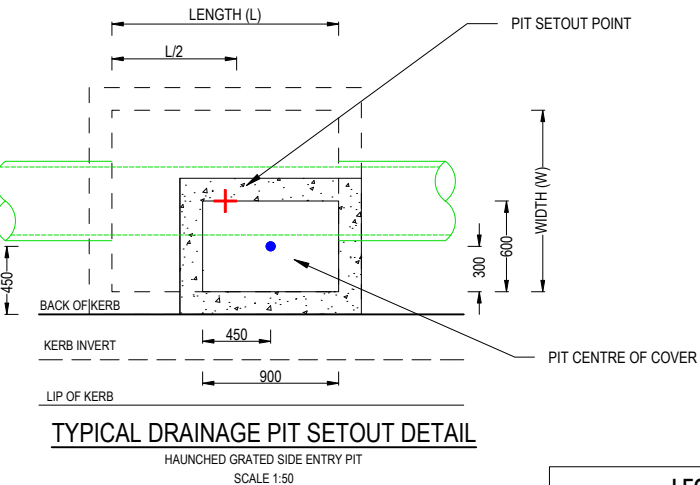
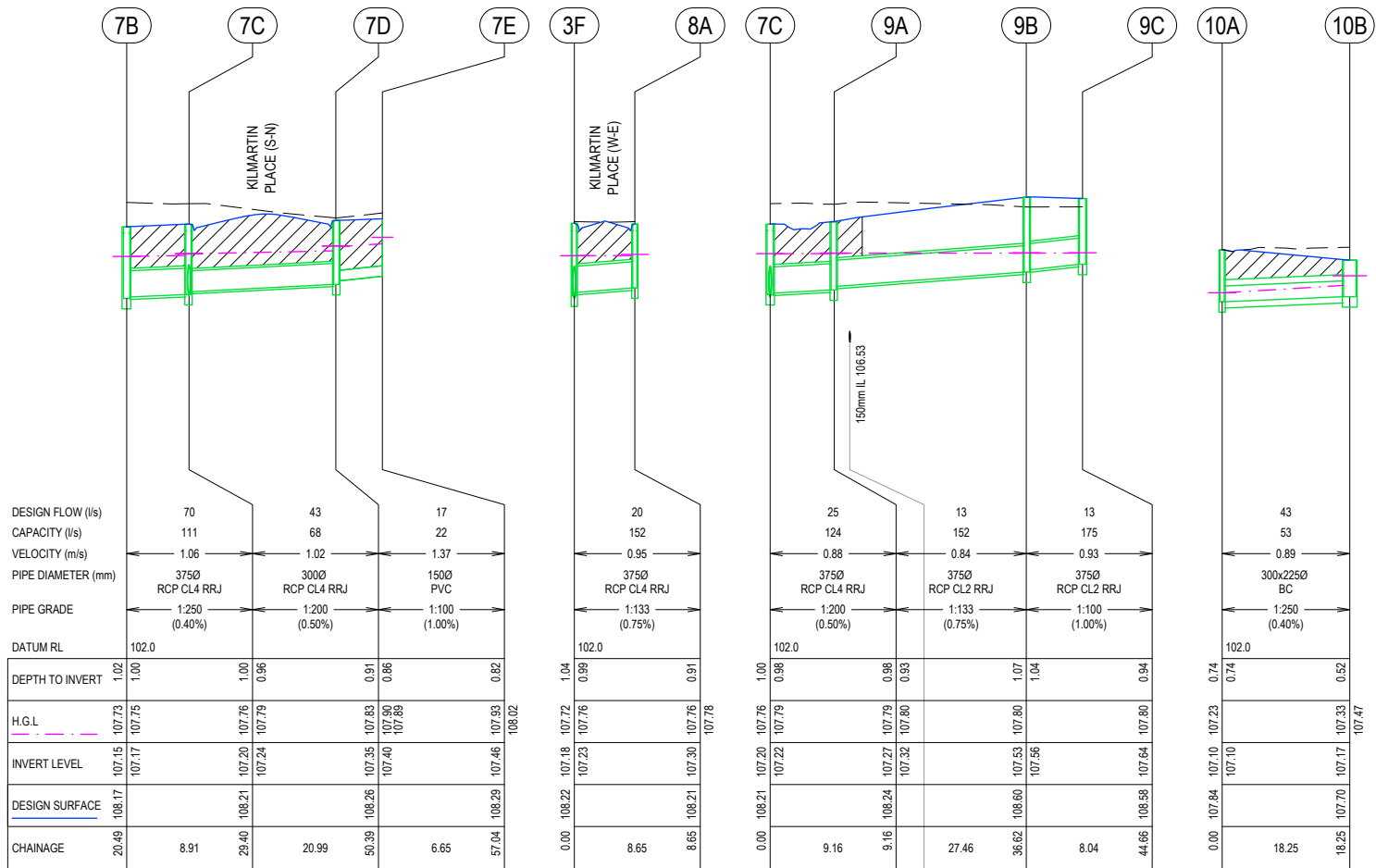
NOTE: REFER TO RESCOM PLANS FOR RETAINING WALL DETAILS

0.25

700 MAX

TYPICAL SECTION - TIMBER RETAINING WALL LOCATION

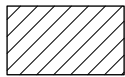
SCALE: NTS



NOTE:

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

NOTE:



DENOTES FULL
DEPTH BACKFILL AS
PER IDM SD310

PIT SCHEDULE

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
						375	105.78					
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	2xMW 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
						300	106.75					
3C	JP + GJP	360058.00	6005327.29	900	900	525	106.86	525	106.84	108.00	1.17	HAUNCHED IDM SD480+SD410
						375	106.89					
3D	SEP	360067.73	6005356.24	900	900	450	106.98	525	106.96	108.09	1.13	HAUNCHED IDM SD431+SD410
						375	107.01					
3E	SEP	360062.27	6005366.78	600	900	375	107.05	450	107.03	108.08	1.05	IDM SD431
						375	107.05					
3F	JP + GJP	360029.74	6005377.20	600	900	375	107.20	375	107.18	108.22	1.04	IDM SD480
						375	107.23					
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	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
						375	107.22					
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	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
REV						

DES	DWG	CHK	AUTH	DATE
RPE	PE0006159			

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H 10 0 10 20 30 40 50 H

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19 LOT RESIDENTIAL DEVELOPMENT

TOCUMWAL RD, NUMURKAH

DRAINAGE LS, PIT SCHEDULE & PIT DETAILS

MOIRA SHIRE COUNCIL REF: 5/2022/73/2

ST. JOHN THE BAPTIST PARISH NUMURKAH

DWG STATUS: **FOR CONSTRUCTION**

PROJECT & DWG No: 1104902R19 / 23

REV: 1

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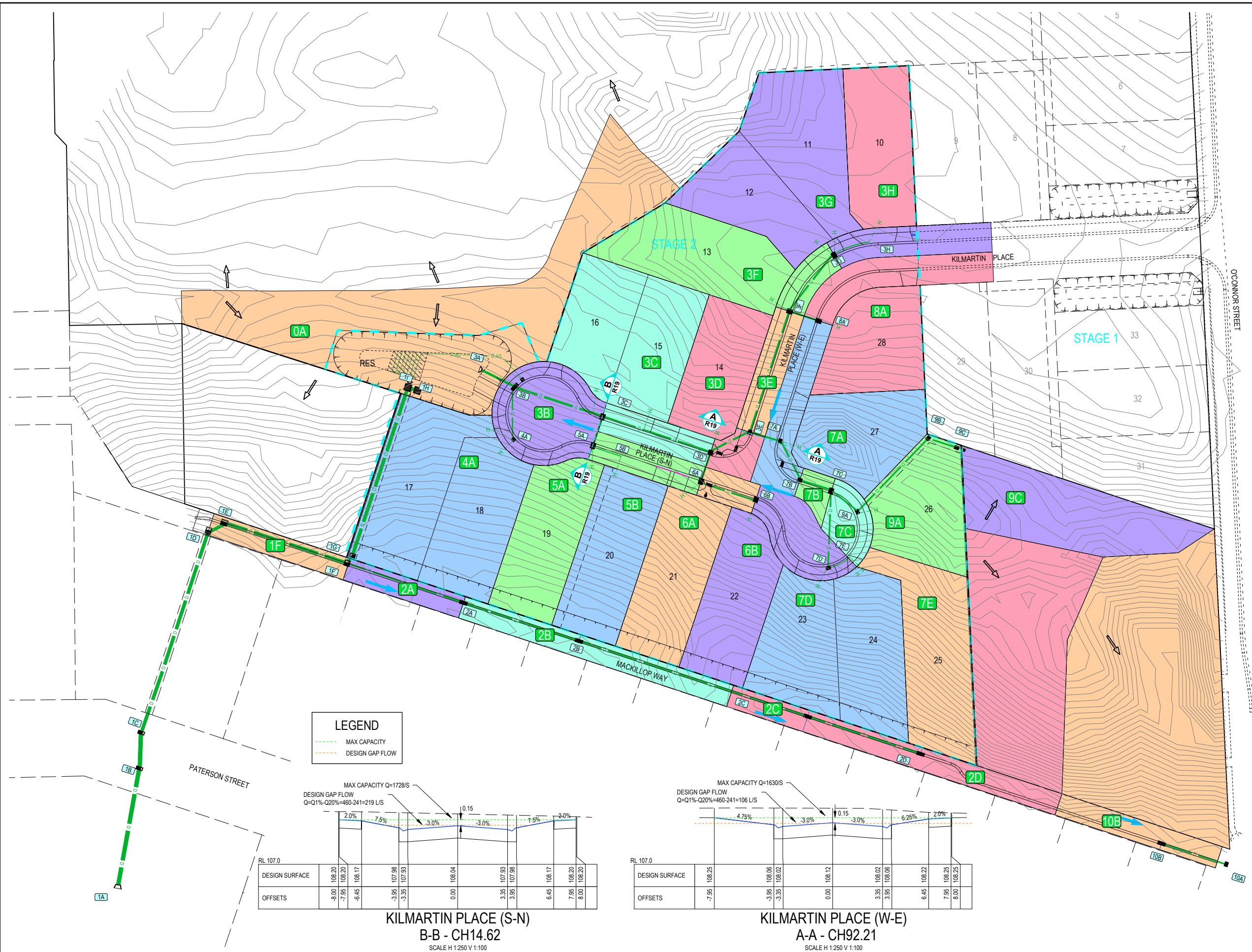
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LEGEND

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

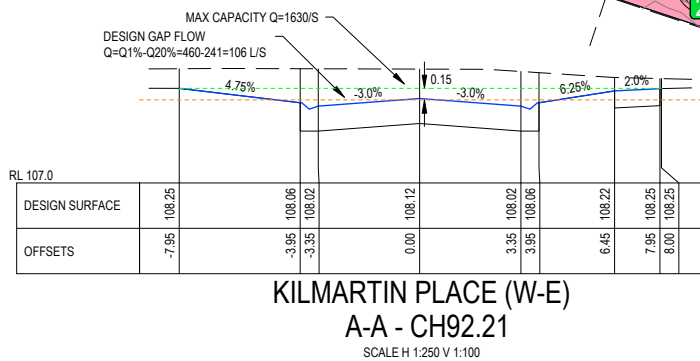
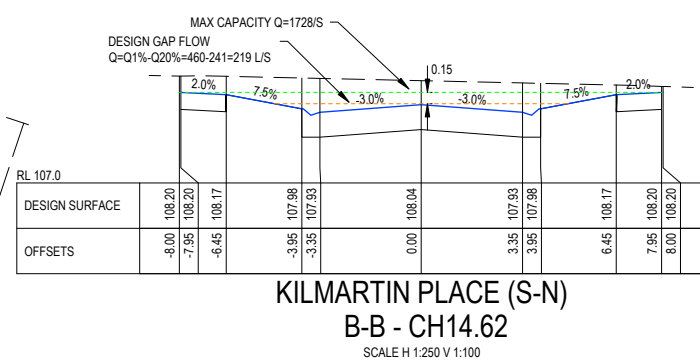
NOTE

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



19 LOT RESIDENTIAL DEVELOPMENT
TOCUMWAL 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

REV

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	AR			16/07/24
D	JB	AR			04/03/24
C	JB	AR			04/03/24

DESIGNER: JB
DRAWN: JB
CHECKED: AR
APPROVED: AR

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12D MODEL - HYDROLOGICAL DESIGN SHEET																				12D MODEL - HYDROLOGICAL DESIGN SHEET																					
Project: 1104902 Design Drainage I DRN/STR Rainfall Fi Numurkah 2022_10_12.12hydro Tc Methoc Direct Rainfall M IFD Table Runoff C Method: Direct																				Project: 1104902 Design Drainage I DRN/STR Rainfall Fi Numurkah 2022_10_12.12hydro Tc Methoc Direct Rainfall M IFD Table Runoff C Method: Direct																					
Minor 20.00 AEP(%) Storm Event																				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	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)	(-)		(-)		(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	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														1A		HW OUT		360183.88	6005197.13	106.45	107.20													
1B		SEP GENERAL		360152.56	6005202.84	107.39	107.39													0.00	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	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	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	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	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	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	1H		MW GENERAL		360050.29	6005274.94	107.39	108.10										500.00	500.00		
1I		HWIN		360049.10	6005275.33	107.33	108.10												60.00	60.00	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	89.86	0.95	0.02	0.02	0.02	4.60	0.02	0.02	4.60		4.60	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	89.86	0.95	0.05	0.04	0.04	10.80	0.04	0.04	10.80		10.80	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	89.86	0.95	0.01	0.01	0.01	3.10	0.01	0.01	3.10		3.10	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	89.86	0.50	0.18	0.09	0.13	32.00	0.09	0.13	32.00		32.00	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	89.86	0.95	0.04	0.04			0.04													4P	6.00	170.64	0.95	0.04	0.04							
3A		HW OUT		360045.57	6005294.73	107.17	107.40														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	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	89.86	0.70	0.12	0.09	0.10	26.10	0.09	0.10	26.10		26.10	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	89.86	0.75	0.02	0.02			0.02													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	89.86	0.70	0.06	0.05	0.06	14.00	0.05	0.06	14.00		14.00	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	89.86	0.75	0.01	0.01			0.01													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	89.86	0.75	0.03	0.02	0.02	5.10	0.02	0.02	5.10		5.10	3E		IDM 900x600 SEP SD431		360062.27	6005366.78	108.08	107.98	5P	6.00	170.64	0.75	0.03	0.02	0.02	9.70	0.02	0.02	9.70		9.70
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	3F		IDM 900x600 GJP+JP SD480		360029.74	6005377.20	108.22	108.11	2P	6.00	170.64	0.70	0.09	0.06	0.07	34.70	0.06	0.07	34.70		34.70
								5P	6.00	89.86	0.75	0.02	0.01			0.01													5P	6.00	170.64	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	3G		IDM 900x600 GJP+JP SD480		360014.48	6005389.27	108.29	108.18	2P	6.00	170.64	0.70	0.16	0.11	0.14	64.50	0.11	0.14	64.50		64.50
								5P	6.00	89.86	0.75	0.03	0.03			0.03													5P	6.00	170.64	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.																													

12D MODEL - HYDRAULIC DESIGN SHEET

Project:1104902 Design

Drainage Mode DRN/STR

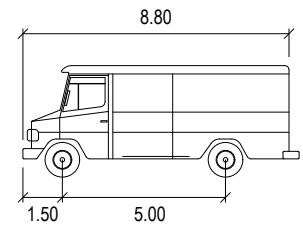
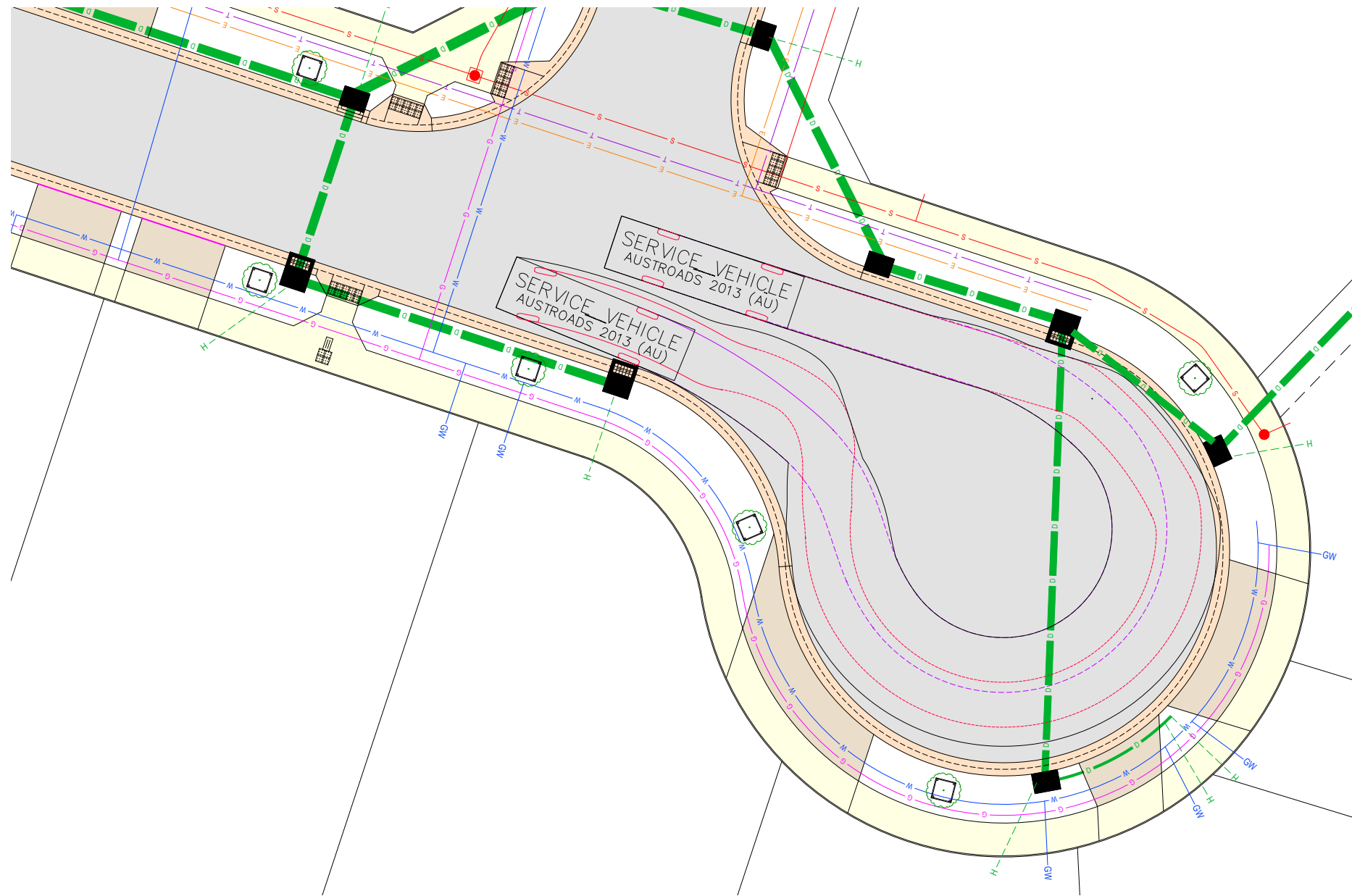
Rainfall File:Numurkah 2022_10_12.12dhdyro

Rainfall Methor IFD Table

Freeboard Limi 0.15 m

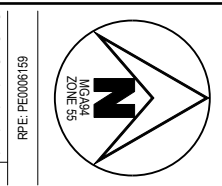
Minor 20.00 AEP(%) Storm Event

Pipe ID	Pipe Type	Pipe Length	Pipe Size	Full Pipe Area Af	Pipe Grade	Pipe Grade	Full-area Tct	Full-area I	Full-area Sum CA	Full-area Qc=ClA	Part-area Tct	Part-area I	Part-area Sum CA	Part-area Qc=ClA	Catchment Flow Qc	Direct Node Flow Qdg	Pipe Flow Q	Capacity Flow Qcap	Q/Qcap Ratio	Full Pipe Vel Vf=Q/Af	Norm Depth Vel Vn=Q/An	Crit Depth Vel Vc=Q/Ac	Capacity Vel Vcap=Qcap/Af	US Node Grate RL	Pipe US IL	Pipe DS IL	DS Node Grate RL	Cover Limit	Cover Min	Pipe DS Bend	Pipe DS Drop	US Node Ku	US Node Kw	Pipe V'head	P'head Loss (Ku.V'head)	WSE Loss (Kw.V'head)	Manning n Roughness	Pipe T'head Loss	US Node HGL	Pipe US HGL	Pipe DS HGL	DS Node HGL	HGL Grade	HGL Grade	F'board US
(-)	(-)	(m)	(mm)	(sq.m)	(%)	(1 in)	(min)	(mm/hr)	(ha)	(L/s)	(min)	(mm/hr)	(ha)	(L/s)	(L/s)	(L/s)	(L/s)	(L/s)	(-)	(m/s)	(m/s)	(m/s)	(m/s)	(m)	(m)	(m)	(m)	(m)	(m)	(deg)	(m)	(-)	(-)	(m)	(m)	(m)	(m)	(m)	(%)	(1 in)	(m)				
00B 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
1B 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
1D to 1C	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 1D	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		44.60	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		41.80	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		34.10	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		0.00	0.00		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		32.00	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		308.40	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	107.21	107.16	107.16	0.35	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	83.85	1.17	273.30	273.30		273.30	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		223.40	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		176.60	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		83.90	110.90	0.76	0.76	1.10	1.30	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		46.90	110.90	0.42	0.42	0.96	1.07	1.00	108.18	107.28	107.10	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	0.17	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		13.20	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		31.30	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		32.10	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		14.20	13.90	1.02	0.81	0.96	1.02	0.79	107.92	107.20	107.17	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		36.30	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	2.66	0.01	0.01	0.01	0.013	0.00	107.57	107.55	107.55	107.55	0.04	2339.10	0.43
6B to 6A	RCP CL4 RRU	15.53	375.00	0.11	0.75	133.30	6.00	89.86	0.08	20.20	6.00	89.86	0.08	20.20	20.20		20.20	151.90	0.13	0.18	0.96	0.84	1.38	108.05	107.19	107.07	108.00	0.50	0.57	-90.00	0.02	7.00		0.00	0.01		0.013	0.00	107.58	107.57	107.57	107.57	0.01	7547.60	0.48
7A to 3E	RCP CL4 RRU	8.50	375.00	0.11	0.40	250.00	7.19	84.56	0.38	89.50	6.75	86.51	0.38	90.60	90.60		90.60	110.90	0.82	0.82	1.12	1.34	1.00	107.98	107.08	107.05	107.98	0.47	0.49	40.40	0.02	1.51	1.53	0.03	0.05	0.05	0.013	0.02	107.71	107.66	107.64	107.64	0.27	374.70	0.26
7B to 7A	RCP CL4 RRU	11.98	375.00	0.11	0.40	250.00	7.00	85.39	0.30	70.70	6.56	87.34	0.29	71.40	71.40		71.40	110.90	0.64																										



SERVICE VEHICLE	
	metres
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 38.7

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
REV	REVISION	DES	DWG	CHK	AUTH	DATE



**Tomkinson**
SURVEY > ENGINEERING > PLANNING > PROJECT MANAGEMENT
HEAD OFFICE: 57 MYERS STREET BENDIGO PH 03 5445 8700
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2.5 0 2.5 5 7.5 10 12.5
SCALE 1:250
LENGTHS ARE IN METRES - PAPER SIZE A3



19 LOT RESIDENTIAL DEVELOPMENT
TOCUMWAL RD, NUMURKAH
SWEPT 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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PLOT DATE: 02/07/2025 FILE: C:\12\DATA\TOMM66C-12DS0110482 - ST JOHN THE BAPTIST PARISH NUMURKAH - 2789ENGINEERING\110482 R&D PLANS REV1.DWG