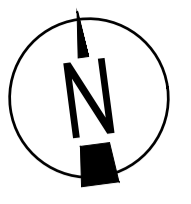
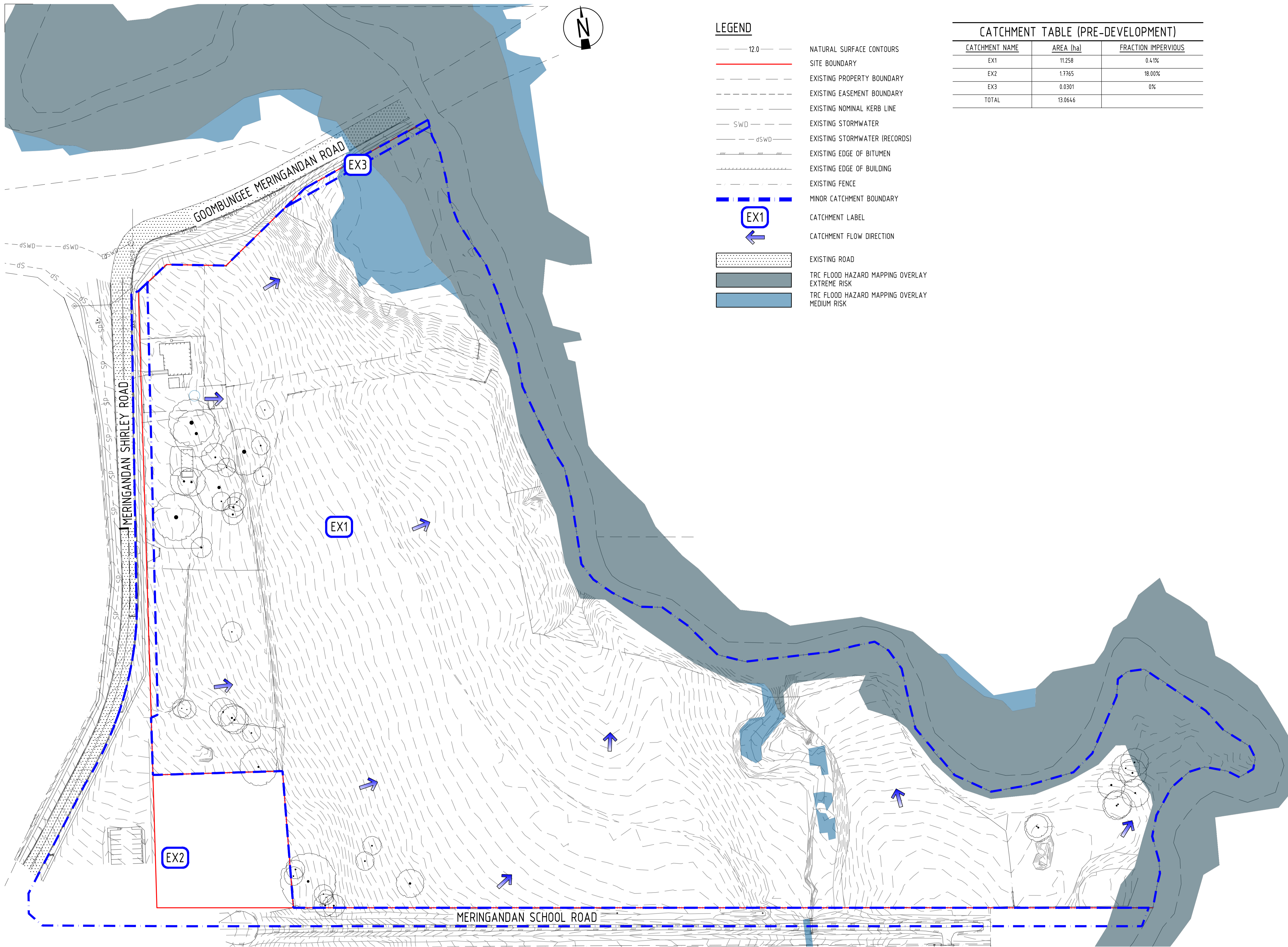


**APPENDIX B – REVISED DEVELOPMENT ENGINEERING PLANS**  
*ADG Engineers*

**RECEIVED**  
20/04/2026  
**TOOWOOMBA  
REGIONAL COUNCIL**



**LEGEND**

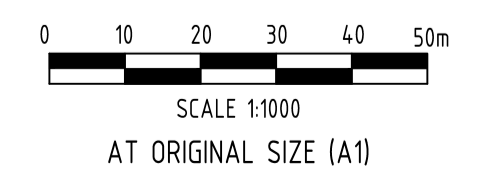
- 12.0 NATURAL SURFACE CONTOURS
- SITE BOUNDARY
- EXISTING PROPERTY BOUNDARY
- EXISTING EASEMENT BOUNDARY
- EXISTING NOMINAL KERB LINE
- EXISTING STORMWATER
- EXISTING STORMWATER (RECORDS)
- EXISTING EDGE OF BITUMEN
- EXISTING EDGE OF BUILDING
- EXISTING FENCE
- MINOR CATCHMENT BOUNDARY
- CATCHMENT LABEL
- CATCHMENT FLOW DIRECTION
- EXISTING ROAD
- TRC FLOOD HAZARD MAPPING OVERLAY EXTREME RISK
- TRC FLOOD HAZARD MAPPING OVERLAY MEDIUM RISK

**CATCHMENT TABLE (PRE-DEVELOPMENT)**

CATCHMENT NAME	AREA (ha)	FRACTION IMPERVIOUS
EX1	11.258	0.41%
EX2	1.7765	18.00%
EX3	0.0301	0%
TOTAL	13.0646	

ISSUED FOR APPROVAL

Rev	Date	Description	By	Chk
04	31.03.26	RFI RESPONSE	JLE	BL
03	26.02.26	RFI RESPONSE	JLE	TB
02	01.07.25	RFI RESPONSE	HT	TB
01	18.12.24	ISSUED FOR APPROVAL	JLE	BL

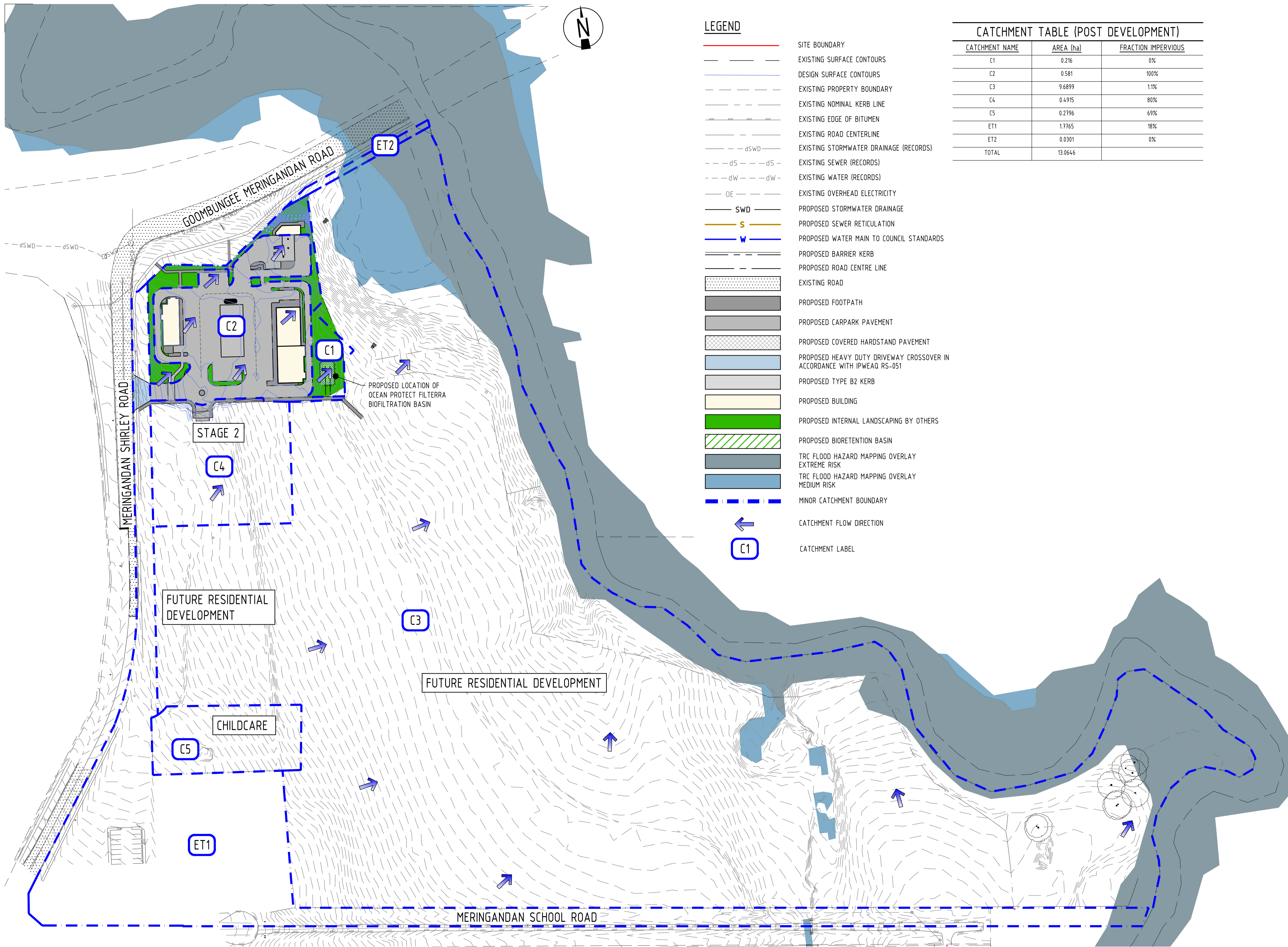


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 SUNSHINE COAST / SYDNEY / TOOWOOMBA

Client <b>JEREMY MCNAMARA</b>	Discipline CIVIL	Status APPROVAL
Project Name <b>PROPOSED LOCAL CENTRE DEVELOPMENT 7 MERINGANDAN SHIRLEY ROAD, MERINGANDAN WEST</b>	Designed By JLE	Checked By BL
	Project No. 25195	Drawn By JLE
		Scale at A1 1:1000

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Title <b>PRELIMINARY PRE-DEVELOPMENT CATCHMENT PLAN</b>	
Drawing No. <b>DA101</b>	Revision <b>04</b>



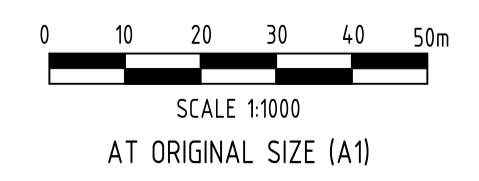
**LEGEND**

- SITE BOUNDARY
- - - EXISTING SURFACE CONTOURS
- - - DESIGN SURFACE CONTOURS
- - - EXISTING PROPERTY BOUNDARY
- - - EXISTING NOMINAL KERB LINE
- - - EXISTING EDGE OF BITUMEN
- - - EXISTING ROAD CENTERLINE
- - - dSWD EXISTING STORMWATER DRAINAGE (RECORDS)
- - - dS - - - dS EXISTING SEWER (RECORDS)
- - - dW - - - dW EXISTING WATER (RECORDS)
- - - OE EXISTING OVERHEAD ELECTRICITY
- - - SWD PROPOSED STORMWATER DRAINAGE
- - - S PROPOSED SEWER RETICULATION
- - - W PROPOSED WATER MAIN TO COUNCIL STANDARDS
- - - PROPOSED BARRIER KERB
- - - PROPOSED ROAD CENTRE LINE
- EXISTING ROAD
- PROPOSED FOOTPATH
- PROPOSED CARPARK PAVEMENT
- PROPOSED COVERED HARDSTAND PAVEMENT
- PROPOSED HEAVY DUTY DRIVEWAY CROSSOVER IN ACCORDANCE WITH IPWEAQ RS-051
- PROPOSED TYPE B2 KERB
- PROPOSED BUILDING
- PROPOSED INTERNAL LANDSCAPING BY OTHERS
- PROPOSED BIORETENTION BASIN
- TRC FLOOD HAZARD MAPPING OVERLAY EXTREME RISK
- TRC FLOOD HAZARD MAPPING OVERLAY MEDIUM RISK
- MINOR CATCHMENT BOUNDARY
- CATCHMENT FLOW DIRECTION
- CATCHMENT LABEL

CATCHMENT TABLE (POST DEVELOPMENT)		
CATCHMENT NAME	AREA (ha)	FRACTION IMPERVIOUS
C1	0.216	0%
C2	0.581	100%
C3	9.6899	11%
C4	0.4915	80%
C5	0.2796	69%
ET1	1.7765	18%
ET2	0.0301	0%
TOTAL	13.0646	

ISSUED FOR APPROVAL

Rev	Date	Description	By	Chk
04	31.03.26	RFI RESPONSE	JLE	BL
03	26.02.26	RFI RESPONSE	JLE	TB
02	01.07.25	RFI RESPONSE	HT	TB
01	18.12.24	ISSUED FOR APPROVAL	JLE	BL

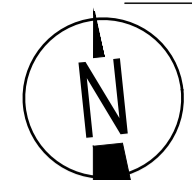


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Client <b>JEREMY MCNAMARA</b>	Discipline CIVIL	Status APPROVAL
Project Name <b>PROPOSED LOCAL CENTRE DEVELOPMENT 7 MERINGANDAN SHIRLEY ROAD, MERINGANDAN WEST</b>	Designed By JLE	Checked By BL
	Project No. 25195	Drawn By JLE
		Scale at A1 1:1000

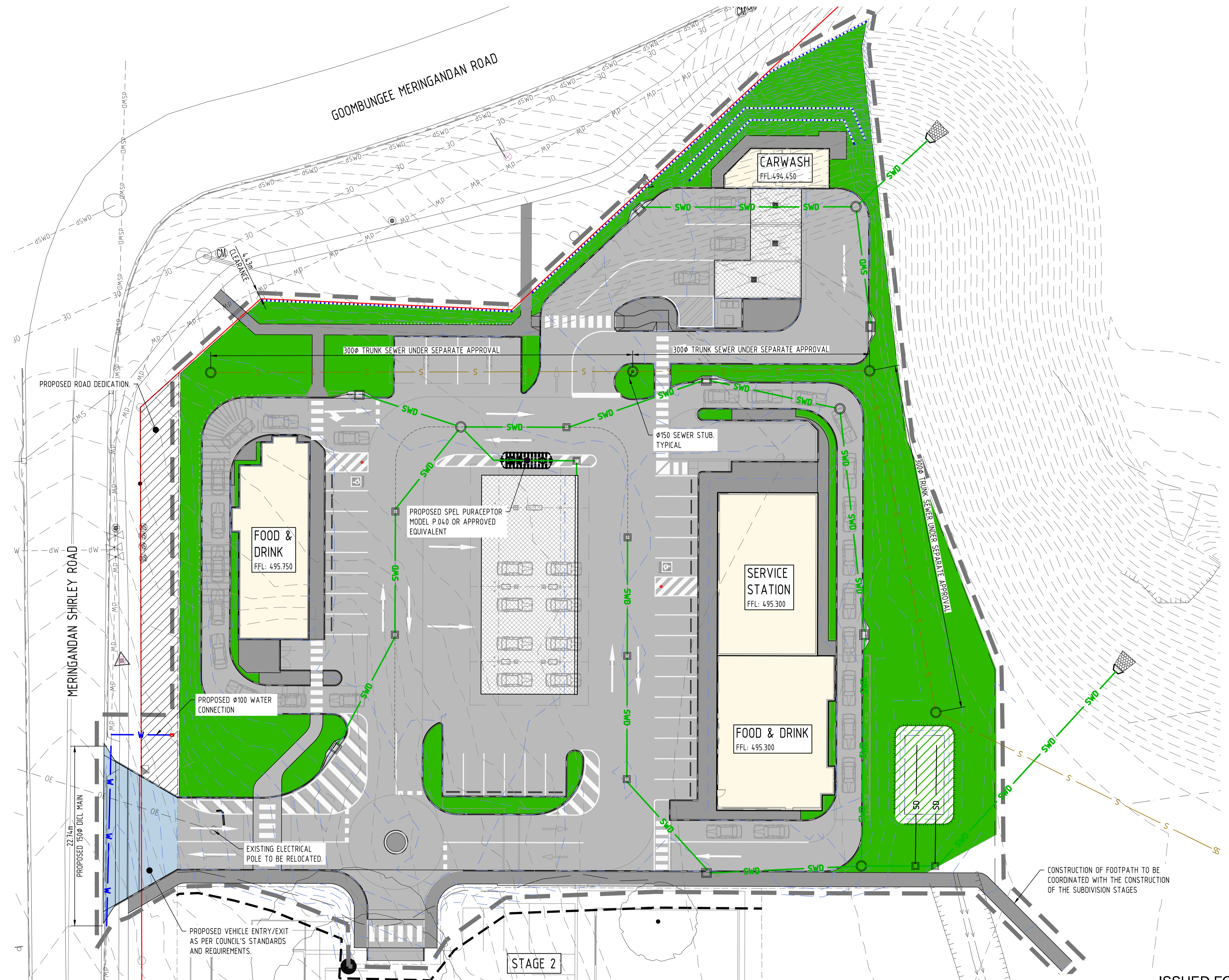
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Title <b>PRELIMINARY POST-DEVELOPMENT CATCHMENT PLAN</b>	Drawing No. DA102	Revision 04
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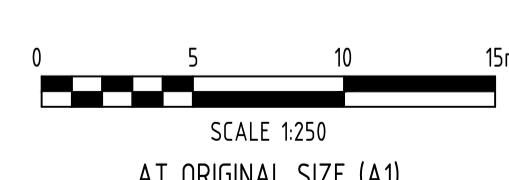
**LEGEND**

- 12.0 FINISHED SURFACE CONTOURS
- 12.0 EXISTING SURFACE CONTOURS
- SITE BOUNDARY
- EXISTING PROPERTY BOUNDARY
- EXISTING EASEMENT BOUNDARY
- EXISTING NOMINAL KERB LINE
- EXISTING EDGE OF BITUMEN
- EXISTING ROAD CENTERLINE
- EXISTING EDGE OF BUILDING EAVE
- EXISTING STORMWATER DRAINAGE (RECORDS)
- EXISTING SEWER
- EXISTING WATER (RECORDS)
- EXISTING OVERHEAD ELECTRICITY
- EXISTING BATTER
- EXISTING FENCE
- EXISTING EARTHWORKS DRAIN
- LIMIT OF WORKS
- STAGE BOUNDARY
- PROPOSED STORMWATER DRAINAGE
- PROPOSED WATER MAIN
- PROPOSED WATER MAIN
- PROPOSED 'TYPE B2' KERB IN ACCORDANCE WITH IPWEAQ STD DRG RS-080
- EXISTING ROAD
- PROPOSED FOOTPATH
- PROPOSED CARPARK PAVEMENT
- PROPOSED COVERED HARDSTAND PAVEMENT
- PROPOSED HEAVY DUTY DRIVEWAY CROSSOVER IN ACCORDANCE WITH IPWEAQ RS-051
- PROPOSED TYPE B2 KERB
- PROPOSED BUILDING
- PROPOSED INTERNAL LANDSCAPING BY OTHERS
- PROPOSED BIORETENTION BASIN
- PROPOSED RETAINING WALL TO BE DETAILED BY RETAINING WALL DESIGNER AT DETAILED DESIGN



**ISSUED FOR APPROVAL**

04	31.03.26	RFI RESPONSE	JLE	BL
03	26.02.26	RFI RESPONSE	JLE	TB
02	01.07.25	RFI RESPONSE	HT	TB
01	18.12.24	ISSUED FOR APPROVAL	JLE	BL
Rev	Date	Description	By	Chk



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Client	JEREMY MCNAMARA
Project Name	PROPOSED LOCAL CENTRE DEVELOPMENT 7 MERINGANDAN SHIRLEY ROAD, MERINGANDAN WEST

Discipline	CIVIL	Status	APPROVAL
Designed By	JLE	Checked By	BL
Project No.	25195	Drawn By	JLE
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		Scale at A1	1:250

Title	PRELIMINARY CONCEPT SERVICES LAYOUT PLAN
Drawn No.	DA103
Revision	04

**LEGEND**

- 12.0 FINISHED SURFACE CONTOURS
- 12.0 EXISTING SURFACE CONTOURS
- SPOT LEVEL
- SLOPE GRADE
- SITE BOUNDARY
- EXISTING PROPERTY BOUNDARY
- EXISTING EASEMENT BOUNDARY
- EXISTING NOMINAL KERB LINE
- EXISTING EDGE OF BITUMEN
- EXISTING ROAD CENTERLINE
- EXISTING EDGE OF BUILDING EAVE
- EXISTING STORMWATER DRAINAGE (RECORDS)
- EXISTING SEWER
- EXISTING WATER (RECORDS)
- EXISTING OVERHEAD ELECTRICITY
- EXISTING BATTER
- EXISTING FENCE
- EXISTING EARTHWORKS DRAIN
- LIMIT OF WORKS
- STAGE BOUNDARY
- PROPOSED 'TYPE B2' KERB IN ACCORDANCE WITH IPWEAD STD DRG RS-080
- PROPOSED RETAINING WALL BY OTHERS
- EXISTING ROAD
- EXISTING TREE TO BE REMOVED

**PRELIMINARY EARTHWORKS VOLUMES**

(COMBINED SURVEYED SURFACE TO DESIGN SURFACE)

TOTAL CUT	2106m <sup>3</sup>
TOTAL FILL	1925m <sup>3</sup>
TOTAL BALANCE (EXPORT CUT)	180m <sup>3</sup>

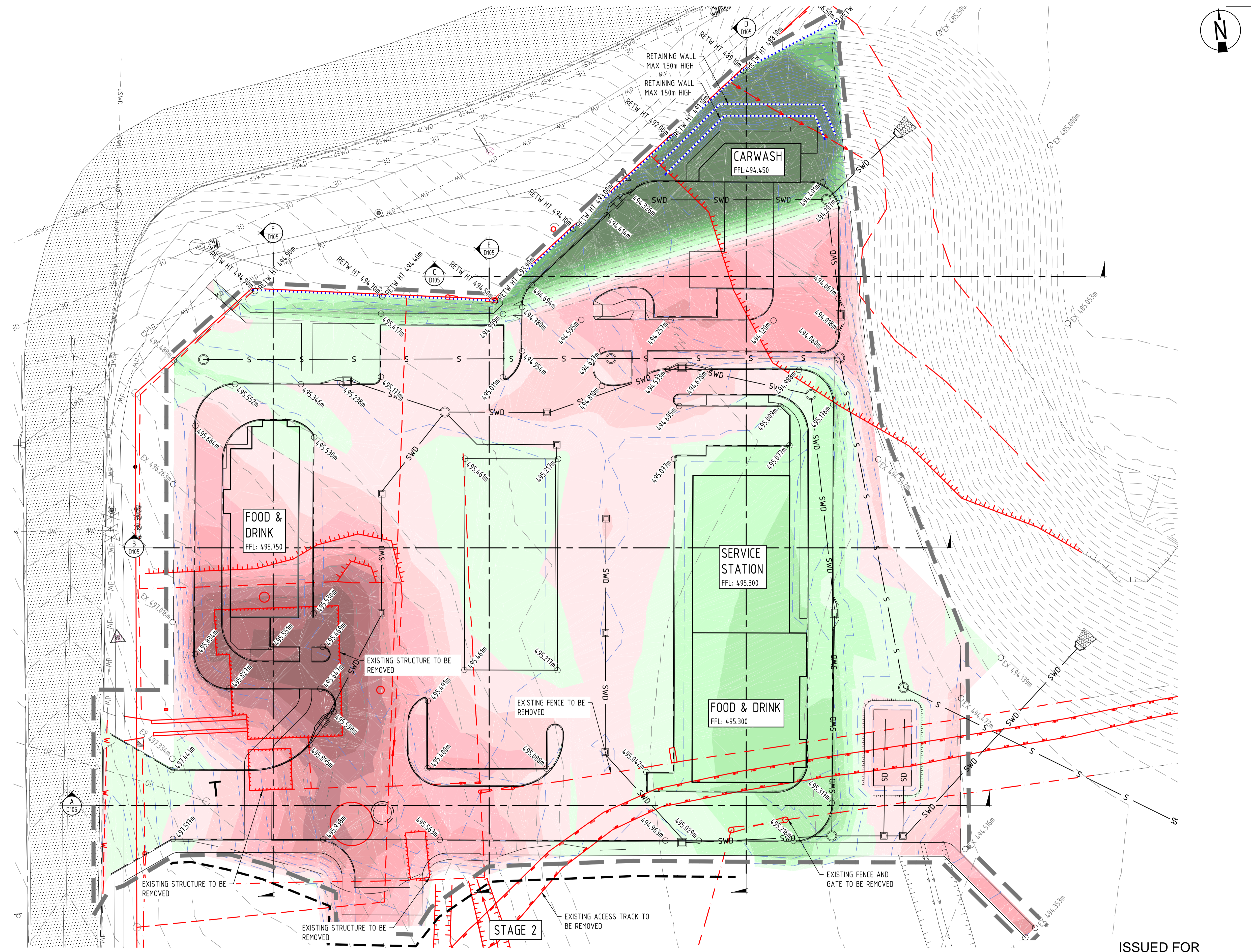
NOTE: VOLUMES ARE CALCULATED A COMBINED SURVEY SURFACE (SURVEY + TRUNK SEWER EARTHWORKS) TO DESIGN SURFACE. VOLUMES DO NOT MAKE ALLOWANCE FOR COMPACTION/SWELLING.

**LEGEND**

- CUT >1.4m
- CUT 1.2m - 1.4m
- CUT 1.0m - 1.2m
- CUT 0.8m - 1.0m
- CUT 0.6m - 0.8m
- CUT 0.4m - 0.6m
- CUT 0.2m - 0.4m
- CUT 0.0m - 0.2m
- FILL 0.2m - 0.4m
- FILL 0.4m - 0.6m
- FILL 0.6m - 0.8m
- FILL 0.8m - 1.0m
- FILL 1.0m - 1.2m
- FILL 1.2m - 1.4m
- FILL >1.4m

**NOTE**

FOR SITE SECTIONS REFER DRG No. DA105



ISSUED FOR APPROVAL

04	31.03.26	RFI RESPONSE	JLE	BL
03	26.02.26	RFI RESPONSE	JLE	TB
02	01.07.25	RFI RESPONSE	HT	TB
01	18.12.24	ISSUED FOR APPROVAL	JLE	BL
Rev	Date	Description	By	Chk



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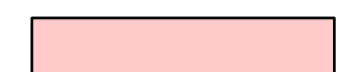

Client: JEREMY MCNAMARA

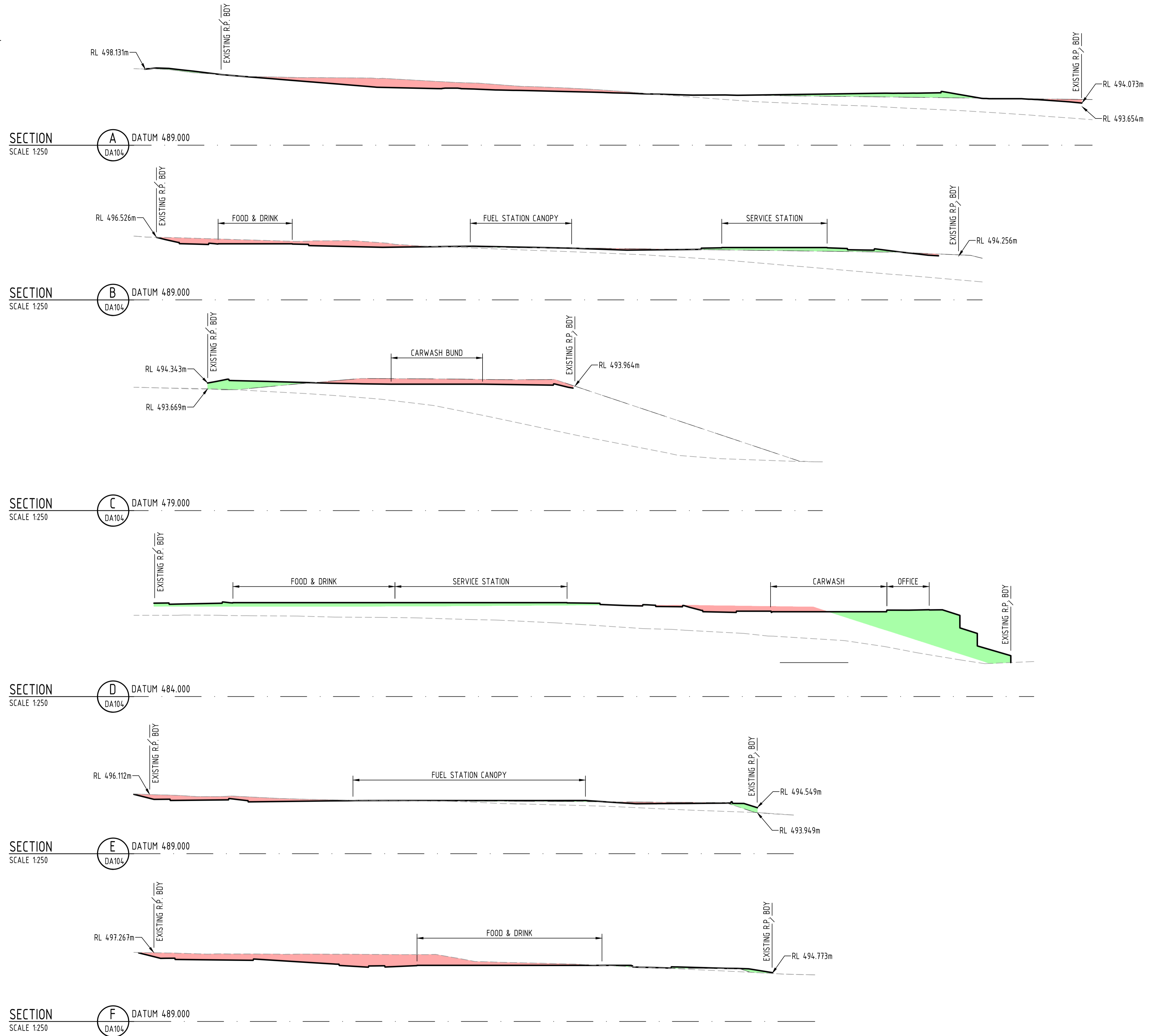
Project Name: PROPOSED LOCAL CENTRE DEVELOPMENT  
 7 MERINGANDAN SHIRLEY ROAD,  
 MERINGANDAN WEST

Discipline: CIVIL	Status: APPROVAL
Designed By: JLE	Checked By: BL
Project No: 25195	Drawn By: JLE
Approved By: BL	Scale at A1: 1:250

Title: PRELIMINARY BULK EARTHWORKS LAYOUT PLAN	Revision: 04
Drawn No: DA104	

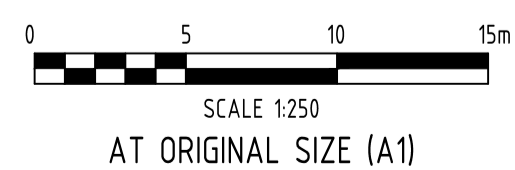
**LEGEND**

-  FINISHED SURFACE LEVEL
-  SEWER BULK EARTHWORKS LEVEL
-  EXISTING SURFACE LEVEL
-  PROPOSED EARTHWORKS CUT
-  PROPOSED EARTHWORKS FILL



ISSUED FOR  
**APPROVAL**

Rev	Date	Description	By	Chk
04	31.03.26	RFI RESPONSE	JLE	BL
03	26.02.26	RFI RESPONSE	JLE	TB
02	01.07.25	RFI RESPONSE	HT	TB
01	18.12.24	ISSUED FOR APPROVAL	JLE	BL



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Client: **JEREMY MCNAMARA**  
Project Name: **PROPOSED LOCAL CENTRE DEVELOPMENT  
7 MERINGANDAN SHIRLEY ROAD,  
MERINGANDAN WEST**

Discipline: CIVIL	Status: APPROVAL
Designed By: JLE	Checked By: BL
Project No: 25195	Drawn By: JLE
Scale at A1: 1:250	
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Title: **PRELIMINARY BULK EARTHWORKS  
SITE SECTIONS**

Drawing No: **DA105** Revision: **04**

**LEGEND**

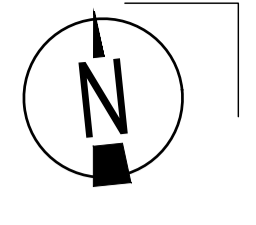
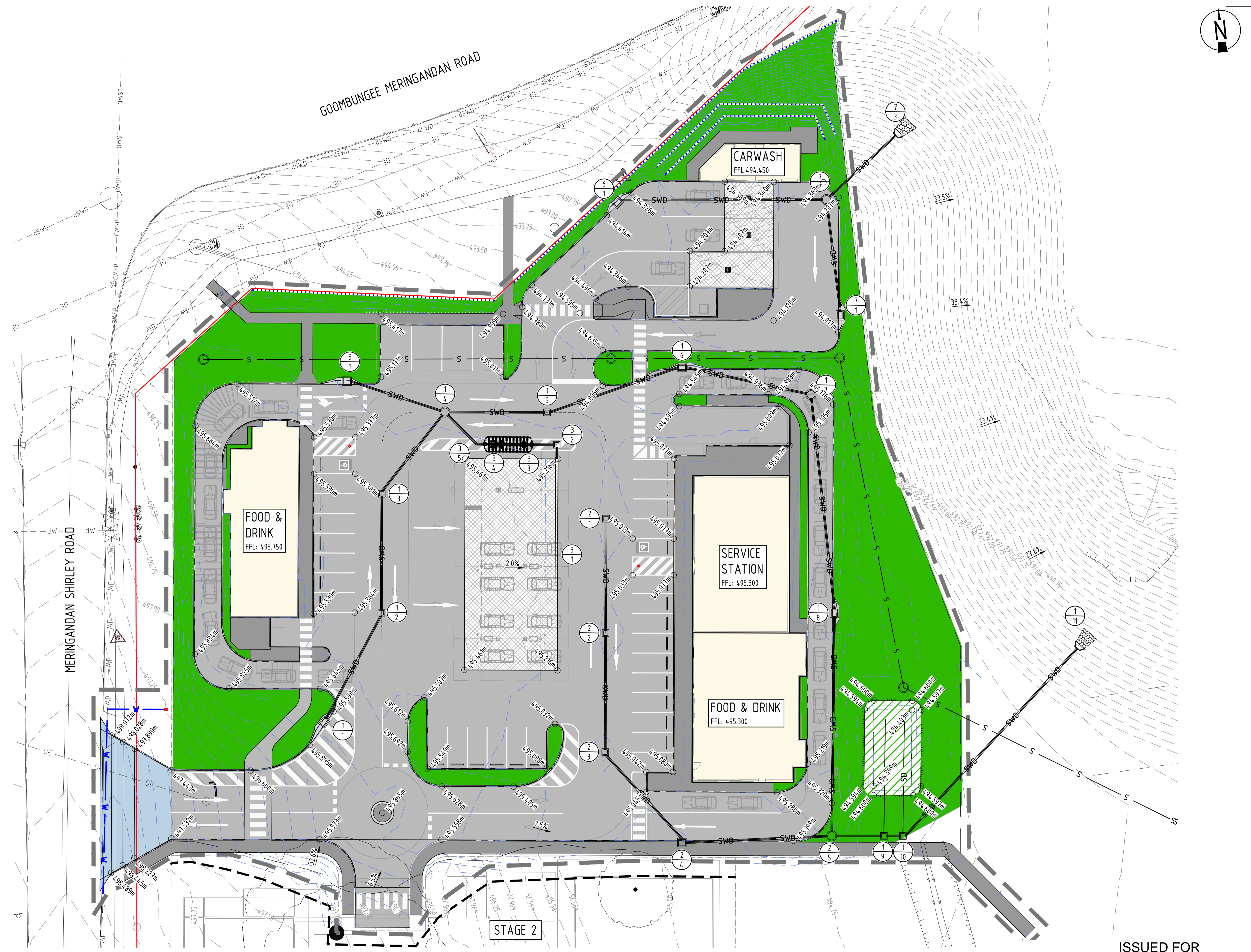
- 12.0 — FINISHED SURFACE CONTOURS
- 12.0 — EXISTING SURFACE CONTOURS
- 495.467m SPOT LEVEL
- 52.7% — SLOPE GRADE
- SITE BOUNDARY
- - - EXISTING PROPERTY BOUNDARY
- - - EXISTING EASEMENT BOUNDARY
- - - EXISTING NOMINAL KERB LINE
- - - EXISTING EDGE OF BITUMEN
- - - EXISTING ROAD CENTERLINE
- - - EXISTING EDGE OF BUILDING EAVE
- - - EXISTING STORMWATER DRAINAGE (RECORDS)
- - - EXISTING SEWER
- - - EXISTING WATER (RECORDS)
- - - EXISTING OVERHEAD ELECTRICITY
- - - EXISTING BATTER
- - - EXISTING FENCE
- - - EXISTING EARTHWORKS DRAIN
- - - LIMIT OF WORKS
- - - STAGE BOUNDARY
- SWD — PROPOSED STORMWATER DRAINAGE
- W — PROPOSED WATER MAIN
- B2 — PROPOSED 'TYPE B2' KERB IN ACCORDANCE WITH IPWEAQ STD DRG RS-080
- 1 SOX DRAINAGE STRUCTURE LABEL
- EXISTING ROAD
- PROPOSED FOOTPATH
- PROPOSED CARPARK PAVEMENT
- PROPOSED COVERED HARDSTAND PAVEMENT
- PROPOSED HEAVY DUTY DRIVEWAY CROSSOVER IN ACCORDANCE WITH IPWEAQ RS-051
- PROPOSED TYPE B2 KERB
- PROPOSED BUILDING
- PROPOSED INTERNAL LANDSCAPING BY OTHERS
- PROPOSED BIORETENTION BASIN
- PROPOSED RETAINING WALL BY OTHERS

**WATER QUALITY NOTES (BEST PRACTICE)**

1. ALL PROPOSED INLET PITS TO BE FITTED WITH OCEANGUARDS WITH 200 MICRON MESH BAGS (DG-200) FORMALLY 'STORMWATER360 SERIES 200 ENVIROPODS'.
2. ALL DOWNPIPES ARE TO BE FITTED WITH 'FIRST FLUSH' DIVERTERS WHICH WILL DIVERT THE FIRST 20L OF ROOF RUNOFF TO LANDSCAPED AREAS.
3. THE TANK WILL SERVE THE DUAL PURPOSE OF PROVIDING THE REQUIRED ON-SITE DETENTION PLUS ACTING IN THE 'BEST PRACTICE' STORMWATER QUALITY TREATMENT TRAIN.

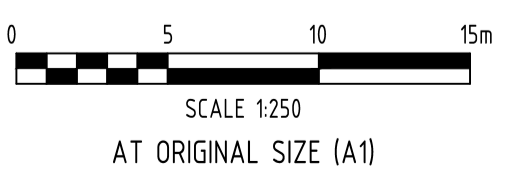
**DESIGN LEVELS**

1. PROPOSED LEVELS ARE PRELIMINARY ONLY AND WILL BE SUBJECT TO THE DETAILED DESIGN PHASE.



ISSUED FOR APPROVAL

02	01.07.25	RFI RESPONSE	HT	TB			
01	18.12.24	ISSUED FOR APPROVAL	JLE	BL			
Rev	Date	Description					



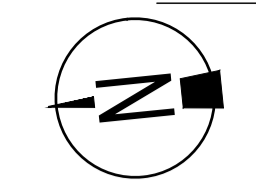
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Client: JEREMY MCNAMARA  
 Project Name: PROPOSED LOCAL CENTRE DEVELOPMENT  
 7 MERINGANDAN SHIRLEY ROAD,  
 MERINGANDAN WEST

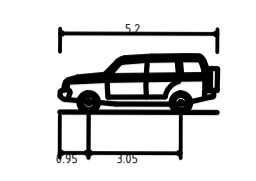
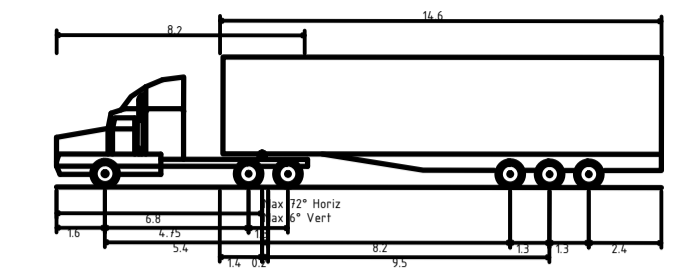
Discipline: CIVIL		Status: APPROVAL
Designed By: JLE	Checked By: BL	Approved By: BL
Project No: 25195	Drawn By: JLE	Scale at A1: 1:250

Title: PRELIMINARY STORMWATER DRAINAGE LAYOUT PLAN	
Drawing No: DA106	Revision: 04



**LEGEND**

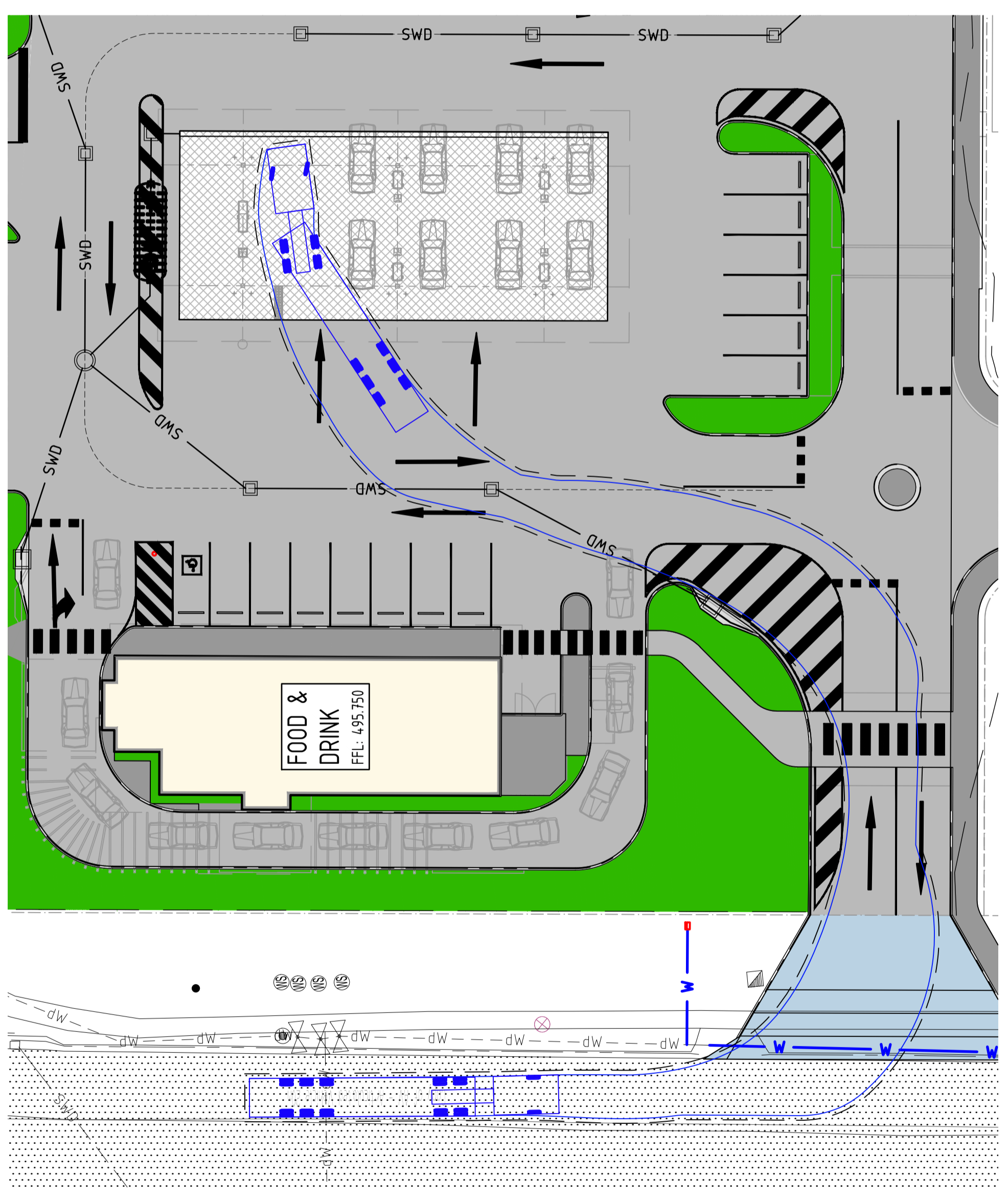
- 12.0 NATURAL SURFACE CONTOURS
- SITE BOUNDARY
- EXISTING PROPERTY BOUNDARY
- EXISTING NOMINAL KERB LINE
- EXISTING EDGE OF BITUMEN
- EXISTING ROAD CENTERLINE
- dS/dS EXISTING STORMWATER DRAINAGE (RECORDS)
- dS/dS EXISTING SEWER (RECORDS)
- dW/dW EXISTING WATER (RECORDS)
- OE EXISTING OVERHEAD ELECTRICITY
- SWD PROPOSED STORMWATER DRAINAGE
- S PROPOSED SEWER RETICULATION
- W PROPOSED WATER MAIN TO COUNCIL STANDARDS
- PROPOSED BARRIER KERB
- PROPOSED ROAD CENTRE LINE
- EXISTING ROAD
- PROPOSED ROAD DEDICATION
- PROPOSED ROAD PAVEMENT
- PROPOSED FOOTPATH
- PROPOSED LANDSCAPED AREAS
- PROPOSED BUILDING PADS
- PROPOSED DRIVEWAY CROSSOVER



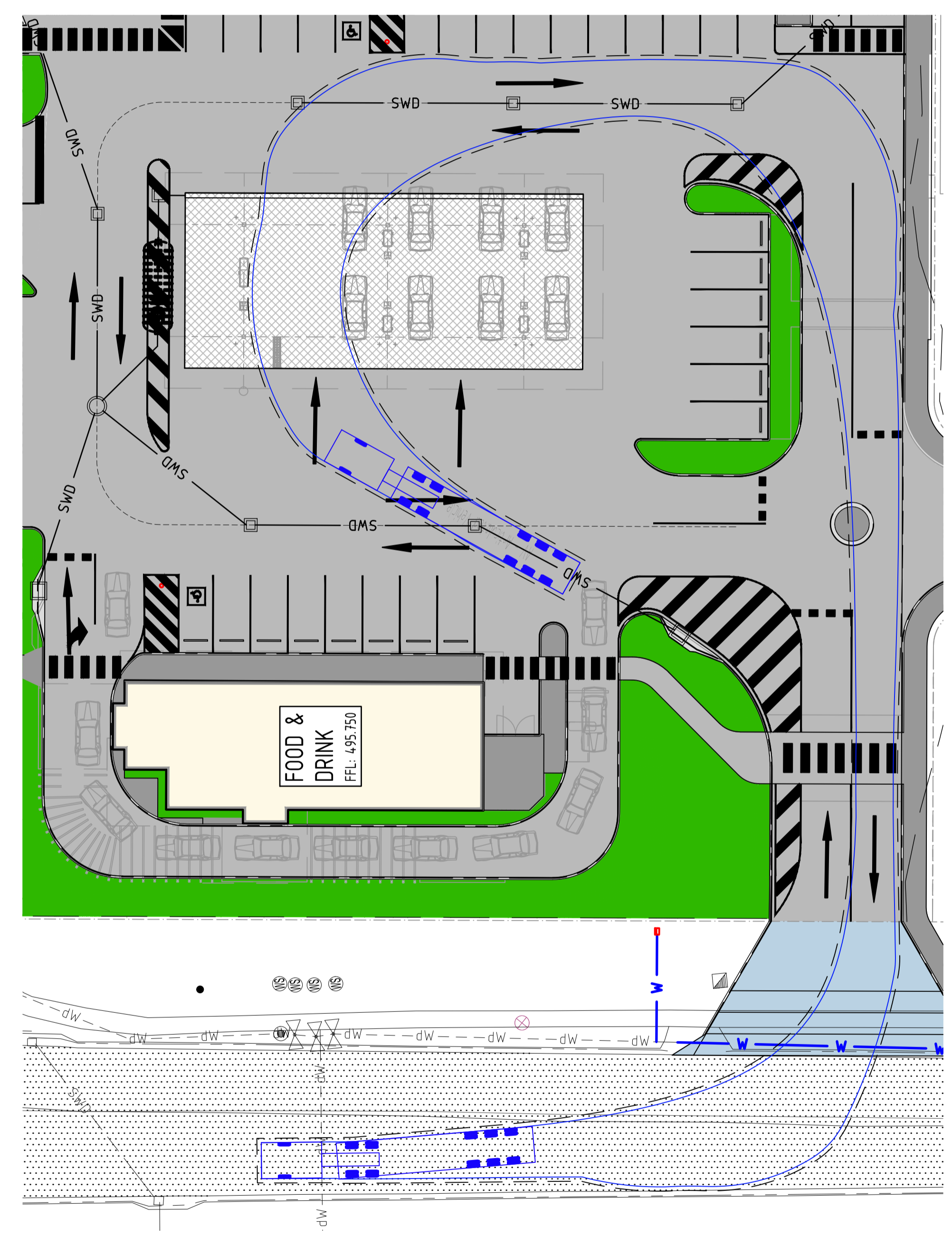
Copy of AV - Articulated Vehicle 20m  
 Overall Length 20.000m  
 Overall Width 2.500m  
 Overall Body Height 4.300m  
 Min Body Ground Clearance 0.418m  
 Track Width 2.500m  
 Lock-to-lock time 6.00s  
 Curb to Curb Turning Radius 12.500m

B99 Vehicle (Realistic min radius) (2004)  
 Overall Length 5.200m  
 Overall Width 1.900m  
 Overall Body Height 1.878m  
 Min Body Ground Clearance 0.272m  
 Track Width 1.840m  
 Lock-to-lock time 4.00s  
 Curb to Curb Turning Radius 6.250m

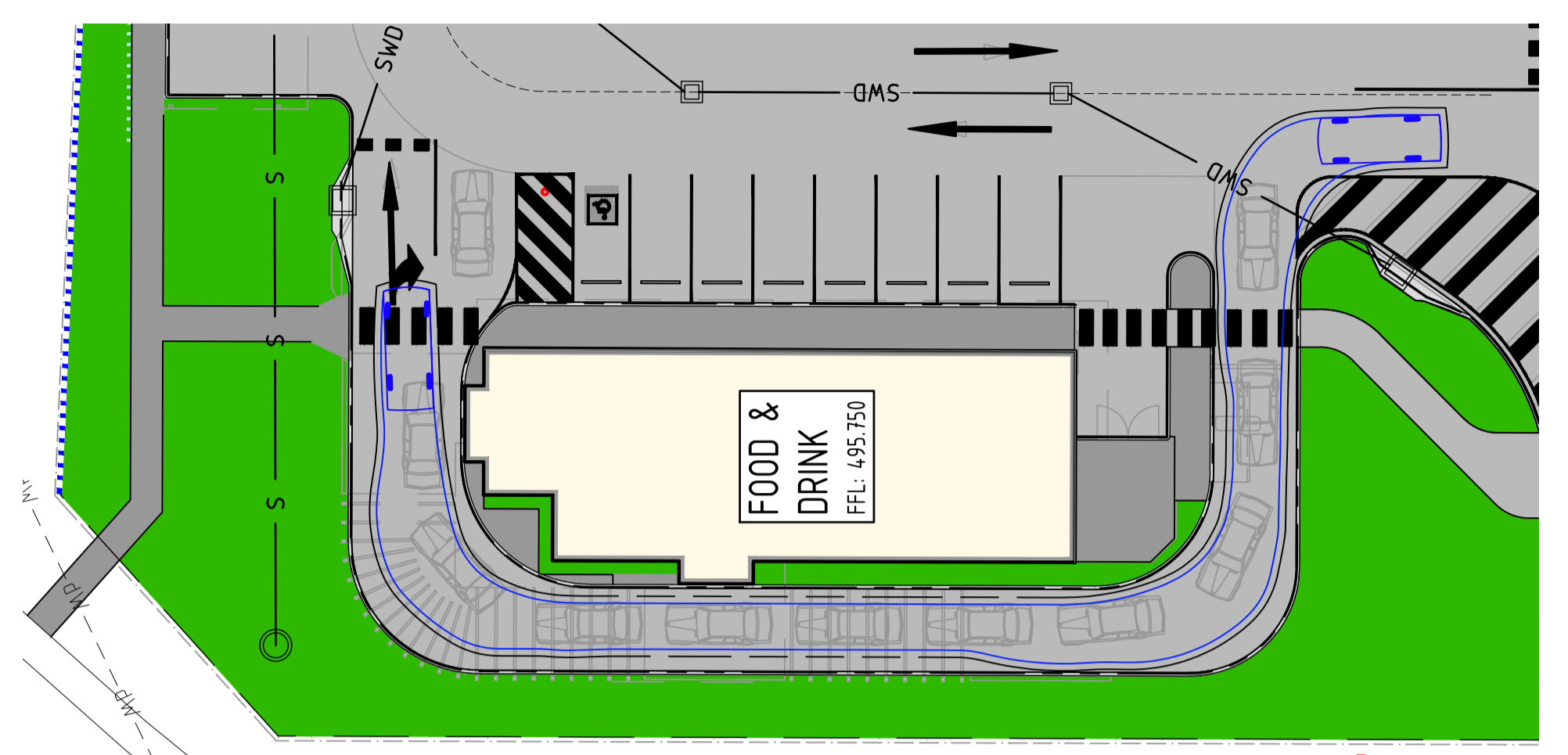
**AV AND B99 VEHICLE TEMPLATE**



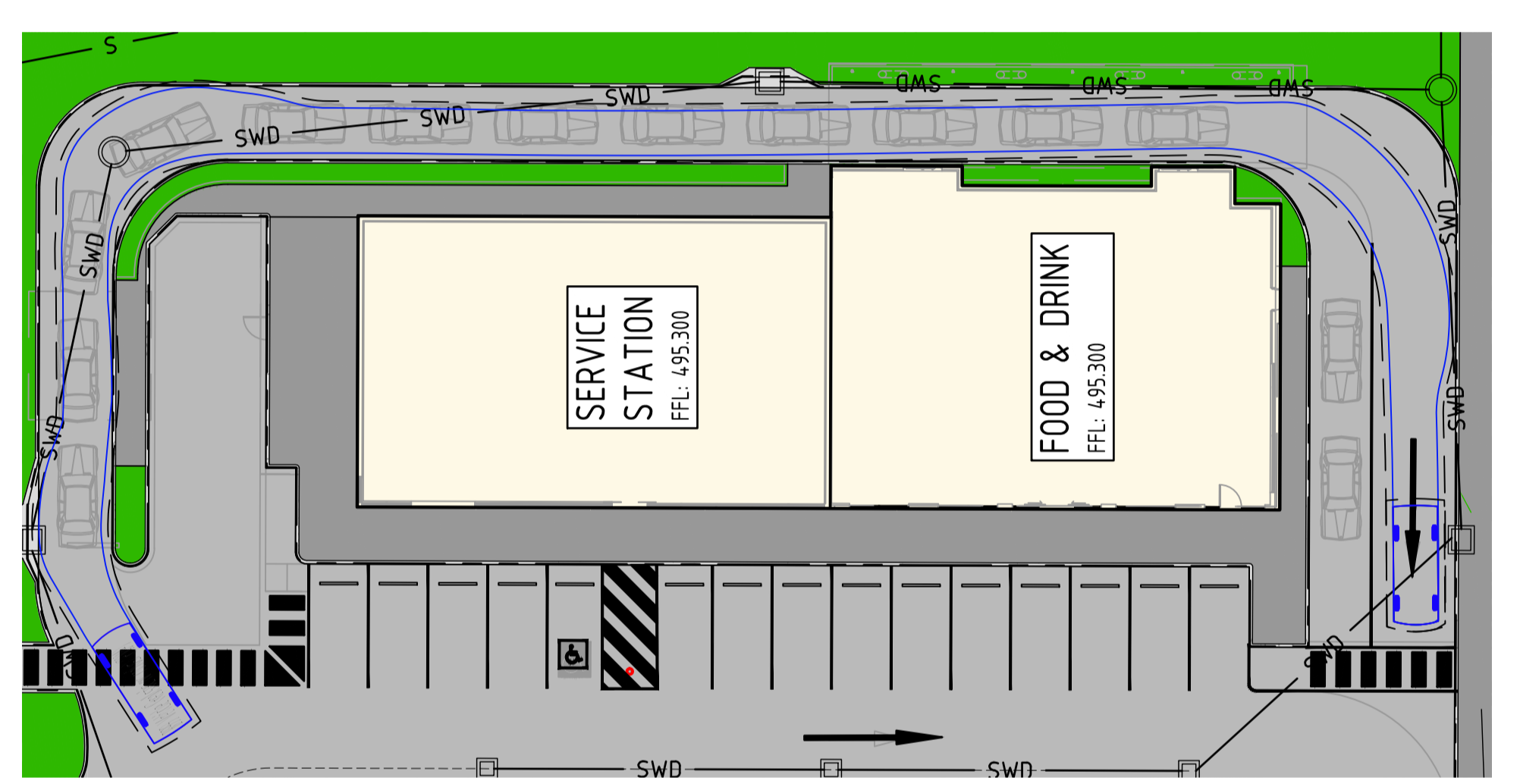
**SWEPT PATH - AV ENTRY**



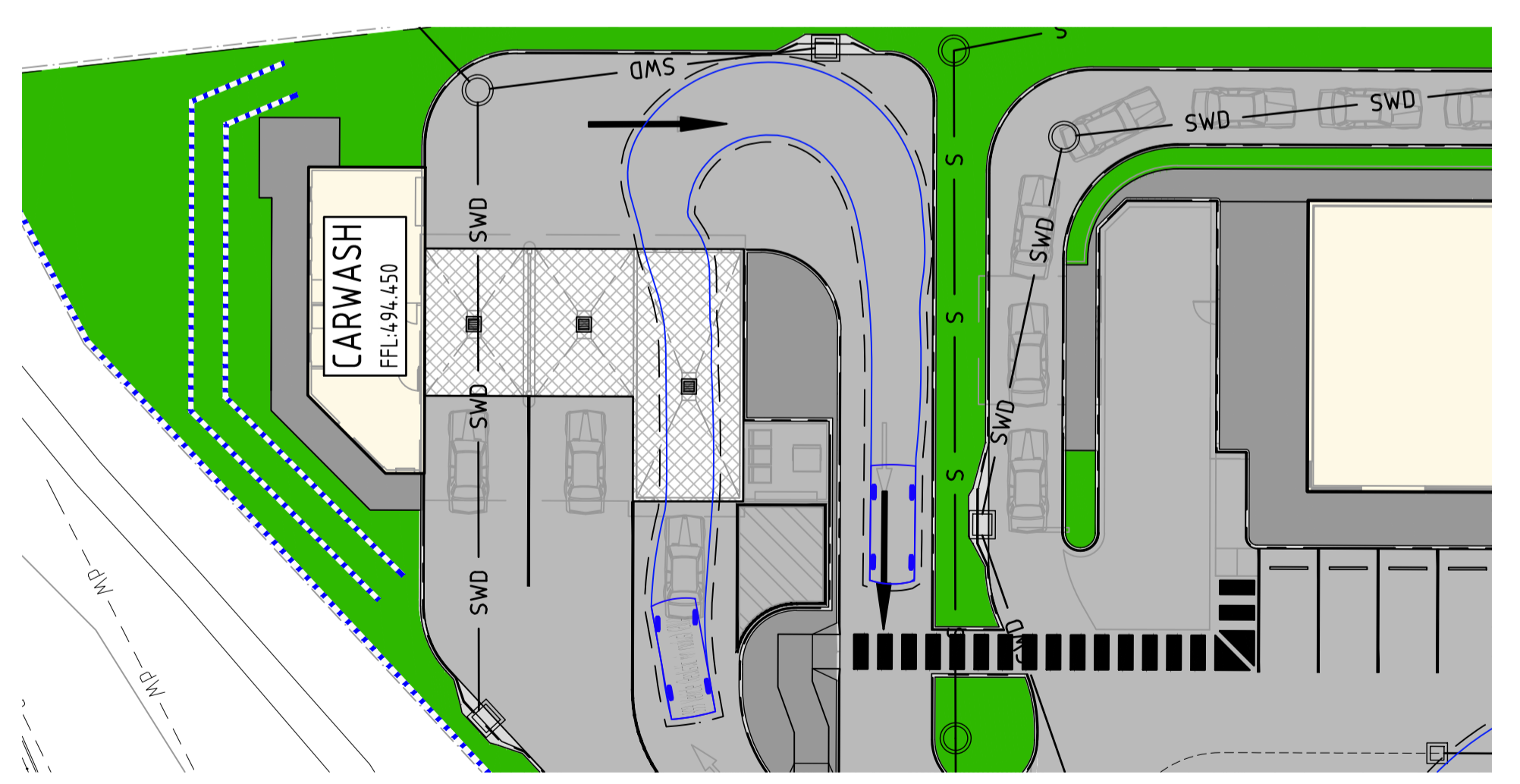
**SWEPT PATH - AV EXIT**



**SWEPT PATH - B99 SERVICE STATE AND FOOD AND DRINK (TENANCY 1 AND 2)**



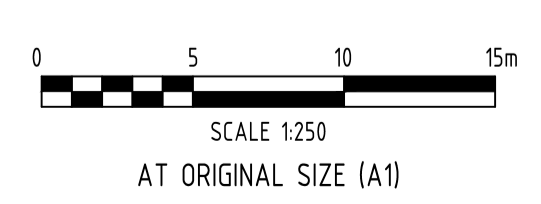
**SWEPT PATH - B99 FOOD AND DRINK (TENANCY 3)**



**SWEPT PATH - B99 CARWASH (TENANCY 4)**

**ISSUED FOR APPROVAL**

02	26.02.26	RFI RESPONSE	JLE	TB
01	01.07.25	RFI RESPONSE	HT	TB
Rev	Date	Description	By	Chk



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Client	JEREMY MCNAMARA
Project Name	PROPOSED LOCAL CENTRE DEVELOPMENT 7 MERINGANDAN SHIRLEY ROAD, MERINGANDAN WEST

Discipline	CIVIL	Status	APPROVAL
Designed By	JLE	Checked By	BL
Project No.	25195	Drawn By	HT
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		Scale at A1	1:250

Title	PRELIMINARY VEHICLE TURN PATHS LAYOUT PLAN
Drawing No.	DA107
Revision	03