Prepared by:

ORION

CONSULT AUSTRALIA
Member Firm

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026
REGISTERED SURVEYOR ID: 8890
ORION GROUP

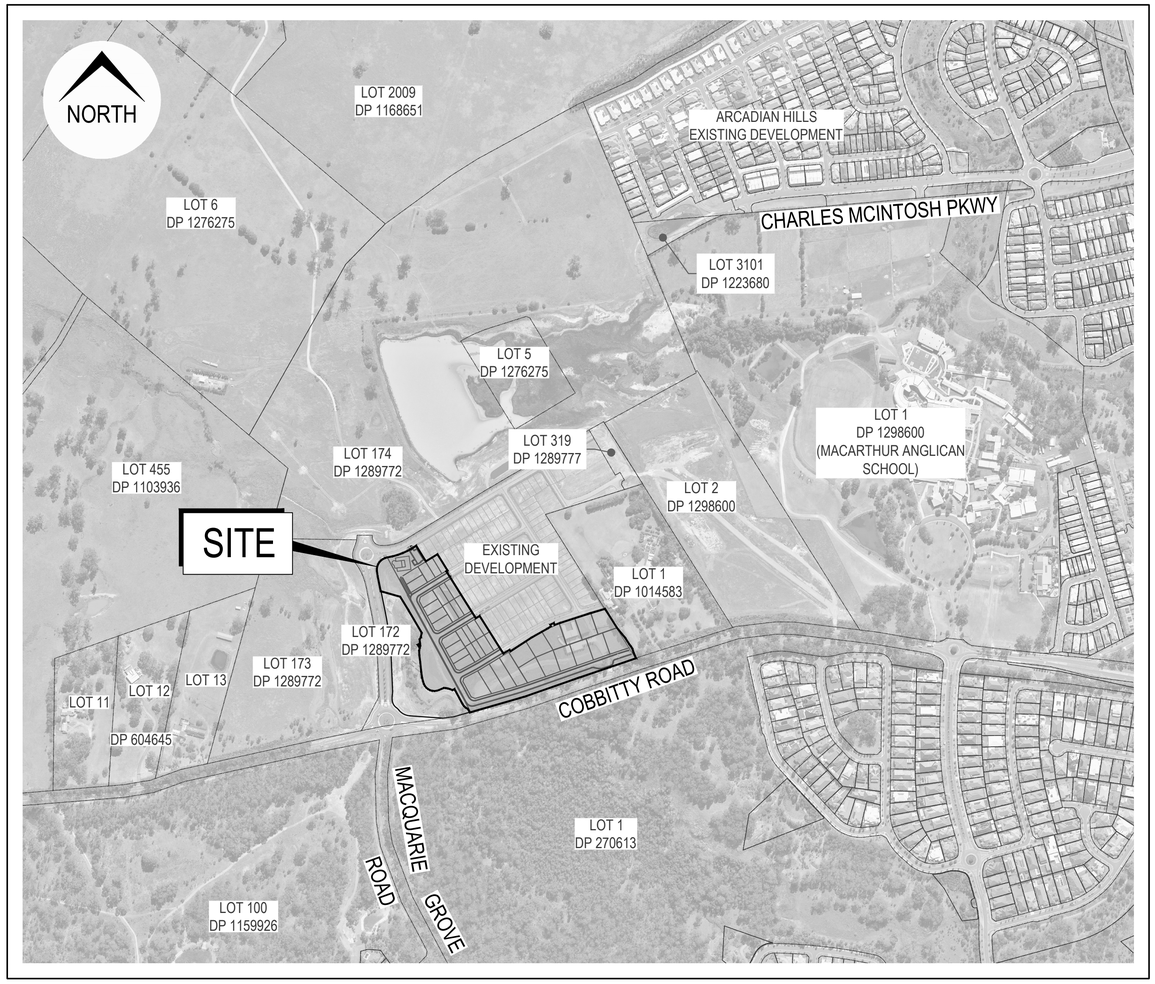
Prepared for:

mirvac

LGA:

camden council

DA: 2024/134/1



SITE / LOCATION (Image courtesy of Metromap 01.04.2024)

LOT 172 DP 1289775

PLAN INDEX		
No.	PLAN	REV
PRELIMINARIES		
SHT-000	COVER SHEET	F
SHT-001	GENERAL LAYOUT PLAN, NOTES & LEGEND	D
SHT-003	TREE REMOVAL AND DEMOLITION PLAN	D
SHT-004	SITE REGRADING PLAN SHEET 01	C
SHT-005	SITE REGRADING PLAN SHEET 02	D
SHT-006	SITE REGRADING SECTIONS SHEET 01	C
SEDIMENT & EROSION CONTROL		
SHT-100	SEDIMENT & EROSION CONTROL PLAN SHEET 01	D
SHT-101	SEDIMENT & EROSION CONTROL PLAN SHEET 02	E
SHT-102	SEDIMENT & EROSION CONTROL NOTES & DETAILS	B
ENGINEERING PLANS		
SHT-200	ENGINEERING PLAN SHEET 01	C
SHT-201	ENGINEERING PLAN SHEET 02	C
SHT-202	ENGINEERING PLAN SHEET 03	C
SHT-203	ENGINEERING PLAN SHEET 04	D
SHT-204	ENGINEERING PLAN SHEET 05	D
SHT-205	PAVEMENT PLAN SHEET 01	C
SHT-206	PAVEMENT PLAN SHEET 02	D
SHT-207	CONTROL LINE SETOUT PLAN SHEET 01	B
SHT-208	CONTROL LINE SETOUT PLAN SHEET 02	C
SHT-209	CONTROL LINE SETOUT PLAN SHEET 03	C
SHT-210	CONTROL LINE SETOUT PLAN SHEET 04	D
SHT-215	CARPARK SETOUT PLAN	C
SHT-216	CARPARK SETOUT TABLES & KERB RETURN SECTIONS	B
SHT-300	ROAD TYPICAL CROSS SECTIONS	C
SHT-301	ROAD LONG SECTIONS SHEET 01	B
SHT-302	ROAD LONG SECTIONS SHEET 02	B
SHT-303	ROAD LONG SECTIONS SHEET 03	B
SHT-304	ROAD LONG SECTIONS SHEET 04	B
SHT-310	ROAD CROSS SECTIONS SHEET 01	B
SHT-311	ROAD CROSS SECTIONS SHEET 02	B
SHT-312	ROAD CROSS SECTIONS SHEET 03	C
SHT-313	ROAD CROSS SECTIONS SHEET 04	C
SHT-314	ROAD CROSS SECTIONS SHEET 05	C
SHT-315	ROAD CROSS SECTIONS SHEET 06	B
SHT-316	ROAD CROSS SECTIONS SHEET 07	B
SHT-317	ROAD CROSS SECTIONS SHEET 08	B
SHT-400	KERB RETURN PLAN, PROFILES & SETOUT TABLES SHEET 01	B
SHT-401	KERB RETURN PLAN, PROFILES & SETOUT TABLES SHEET 02	B

PLAN INDEX		
No.	PLAN	REV
SHT-402	KERB RETURN PLAN, PROFILES & SETOUT TABLES SHEET 03	B
STORMWATER DRAINAGE & BASINS		
SHT-500	STORMWATER CATCHMENT PLAN SHEET 01	C
SHT-501	STORMWATER CATCHMENT PLAN SHEET 02	D
SHT-502	STORMWATER CATCHMENT PLAN SHEET 03	D
SHT-510	DRAINAGE LONG SECTIONS SHEET 01	B
SHT-511	DRAINAGE LONG SECTIONS SHEET 02	B
SHT-512	DRAINAGE LONG SECTIONS SHEET 03	B
SHT-513	DRAINAGE LONG SECTIONS SHEET 04	B
SHT-514	DRAINAGE LONG SECTIONS SHEET 05	B
SHT-515	DRAINAGE LONG SECTIONS SHEET 06	B
SHT-530	DRAINAGE PIT SCHEDULE	B
SHT-531	DRAINAGE CALCULATIONS SHEET 01	B
SHT-532	DRAINAGE CALCULATIONS SHEET 02	B
SHT-533	DRAINAGE CALCULATIONS SHEET 03	B
SHT-534	DRAINAGE CALCULATIONS SHEET 04	B
SHT-535	DRAINAGE DETAILS	C
SHT-550	GPT SETOUT AND PIT GEOMETRY PLAN SHEET 01	B
SHT-551	GPT SETOUT AND PIT GEOMETRY PLAN SHEET 02	B
SHT-600	BASIN PD04 PLAN, DETAILS AND SECTIONS	C
SHT-601	BASIN ACCESS SETOUT PLAN	C
SHT-602	BASIN ACCESS SECTIONS	B
SHT-603	BASIN PLANTING NOTES	B
RETAINING WALLS		
SHT-700	RETAINING WALL PLAN SHEET 01	C
SHT-701	RETAINING WALL PLAN SHEET 02	C
SHT-702	RETAINING WALL PLAN SHEET 03	C
SHT-703	RETAINING WALL PLAN SHEET 04	D
SHT-710	RETAINING WALL SECTIONS SHEET 01	C
SHT-711	RETAINING WALL SECTIONS SHEET 02	C
SHT-712	RETAINING WALL SECTIONS SHEET 03	B
SHT-713	RETAINING WALL SECTIONS SHEET 04	C
SHT-714	RETAINING WALL SETOUT AND DETAILS	C
SIGNAGE, LINE MARKING & TRAFFIC CONTROL PLAN		
SHT-900	SIGNAGE AND LINEMARKING SHEET 01	E
SHT-901	SIGNAGE AND LINEMARKING SHEET 02	F

CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL

19/03/2026

SUBDIVISION WORKS CERTIFICATE

DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a)

ROAD & DRAINAGE DESIGN

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Project No. 23-0580 Set No. 02 Milestone SWC Plan 000 Revision F

NORTH

UTILITIES SHOWN ARE DIAGRAMMATIC ONLY AND MAY NOT INCLUDE ALL SERVICES WITHIN THE LIMIT OF WORKS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, LOCATE AND AVOID DAMAGE TO THEM AS SPECIFIED BY EACH UTILITIES EXCAVATION GUIDE LINES/STANDARDS

BEFORE YOU DIG www.byda.com.au

Zero Damage - Zero Harm

C

VOLUMES

CUT -	4,354m³
FILL -	49,058m³
IMPORT -	44,704m³

NOTES:
- THESE VOLUMES ARE RAW ONLY (EXISTING STRIPPED SURFACE TO BULK EARTHWORKS SURFACE)
- NO BULKING FACTOR HAS BEEN APPLIED
- TOPSOIL STRIPPED 200mm FROM EXISTING
- TOPSOIL REPLACEMENT OF 150mm ON VERGES AND LOTS
- BOXING DEPTH ASSUMED TO BE 430mm IN ROADS
- NO ALLOWANCE HAS BEEN MADE FOR UNSUITABLE MATERIAL ASSOCIATED WITH EXISTING DAMS OR BASINS SUCH AS WATER, MUD, SLUDGE ETC.

LEGEND

APPROXIMATE EXTENT OF FILL	> 4.5m
	4.0 - 4.5m
	3.5 - 4.0m
	3.0 - 3.5m
	2.5 - 3.0m
	2.0 - 2.5m
	1.5 - 2.0m
	1.0 - 1.5m
	0.5 - 1.0m
	0.05 - 0.5m
	0.0 - 0.05m
APPROXIMATE EXTENT OF CUT	0.0 - 0.05m
	0.05 - 0.5m
	0.5 - 1.0m
	1.0 - 1.5m
	1.5 - 2.0m
	2.0 - 2.5m
	2.5 - 3.0m
	3.0 - 3.5m
	3.5 - 4.0m
	4.0 - 4.5m
	> 4.5m

- FLOOD WSL POST 20 YEAR LINE ADDED

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DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

EXISTING DEVELOPMENT

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026
REGISTERED SURVEYOR ID: 8890
ORION GROUP

FRESHWATER DRIVE
CHARLES MCINTOSH PARKWAY
DRIVEWAY 1
ROAD 02
ROAD 05
ROAD 03
COBBITTY CREEK
BASIN PD04
LOT 2 DP 1276275
LOT 4 DP 1276275
LOT 1 DP 1014583
3101 3102 3103 3104 3105 3106 3107 3108 3109 3110 3111 3112 3113 3114 3115 3116 3117 3118 3119 3120 3121 3122 3123 3124 3125 3126 3127 3128 3129

FOR CONTINUATION REFER TO SWC-005

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	AP	AP	AP	4/11/2025	ISSUED FOR MOD APPLICATION
B	WP	AP	AP	AP	17/07/2025	ISSUED FOR MOD APPLICATION
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale:
0 5 10 15 20 25 30 35 40 45 50
SCALE 1:500 (A1) SCALE 1:1000 (A3)

For: mirvac

By: ORION

ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project: 2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

Title: SITE REGRADING PLAN SHEET 01

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	004	C

FOR CONTINUATION REFER TO SWC-004

NORTH

COBBITTY CREEK

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BEFORE YOU DIG www.byda.com.au
Zero Damage - Zero Harm

NOTE:
REFER TO PLAN SWC-004
FOR REGRADING VOLUMES

LEGEND

APPROXIMATE EXTENT OF FILL	> 4.5m
	4.0 - 4.5m
	3.5 - 4.0m
	3.0 - 3.5m
	2.5 - 3.0m
	2.0 - 2.5m
	1.5 - 2.0m
	1.0 - 1.5m
	0.5 - 1.0m
	0.05 - 0.5m
	0.0 - 0.05m
APPROXIMATE EXTENT OF CUT	0.0 - 0.05m
	0.05 - 0.5m
	0.5 - 1.0m
	1.0 - 1.5m
	1.5 - 2.0m
	2.0 - 2.5m
	2.5 - 3.0m
	3.0 - 3.5m
	3.5 - 4.0m
	4.0 - 4.5m
	> 4.5m

ROAD 02
ROAD 03
ROAD 05
ROAD 07
COBBITTY ROAD
BASIN PD04
BM SSM 18301
R.L.73.93 (A.H.D.)
LOT 1
DP 270613

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19/03/2026

SUBDIVISION WORKS CERTIFICATE

DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
D	MG	DH	MP	MP	18/12/2025	ISSUED FOR SUBDIVISION WORKS CERTIFICATE
C	WP	AP	AP	AP	4/11/2025	ISSUED FOR MOD APPLICATION
B	MG	DH	MP	MP	6/01/2025	ISSUED FOR SUBDIVISION WORKS CERTIFICATE
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale:
0 5 10 15 20 25 30 35 40 45 50
SCALE 1:500 (A1) SCALE 1:1000 (A3)

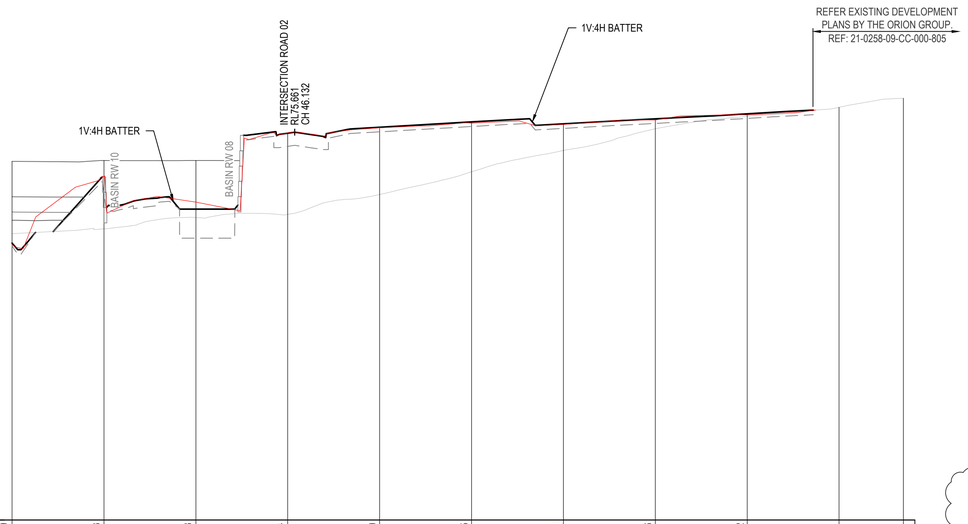
For: mirvac

By: ORION
ABN:25 604 069 981 **PO Box:**7936, BAULKHAM HILLS NSW 2153 **T:**(02) 8660 0035 **E:**info@theoriongroup.au

Project:
2 FRESHWATER DRIVE,
COBBITTY
(TRANCHE 3, STAGE 3a)
ROAD & DRAINAGE DESIGN

Title:
SITE REGRADING PLAN
SHEET 02

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	005	D

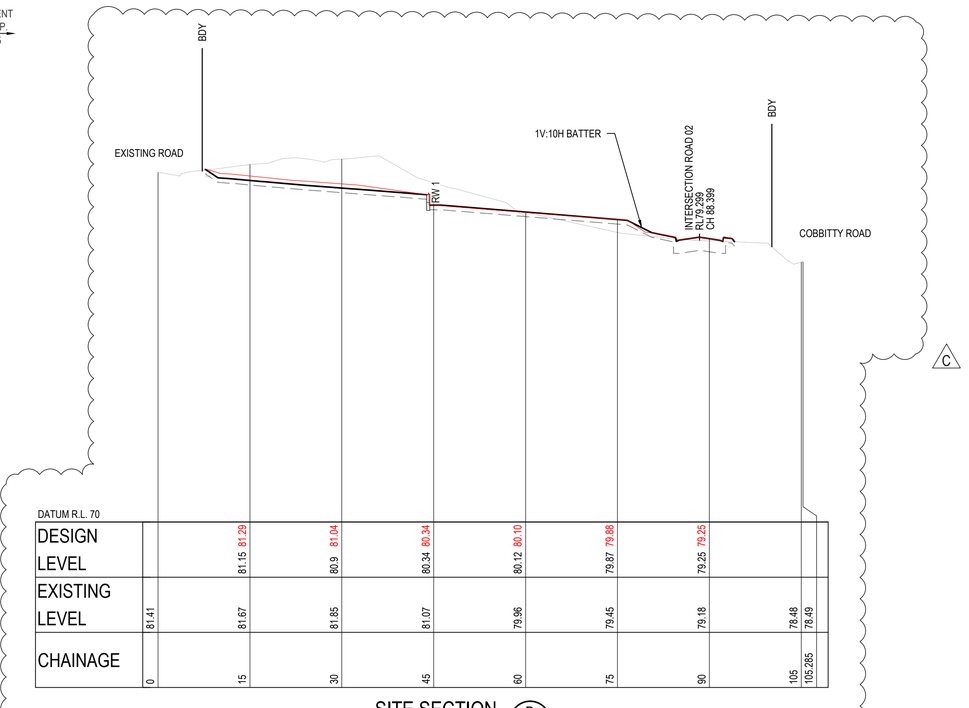


DATUM R.L. 63

DESIGN LEVEL	72.04	71.99	74.2	74.23	73.15	73.38	75.63	75.64	75.82	75.80	75.99	75.95
EXISTING LEVEL	72.35		72.51		72.88		72.98		73.63		74.37	
CHAINAGE	0		15		30		45		60		75	

DESIGN LEVEL	75.93	75.91	76.09	76.06	76.26	76.22						
EXISTING LEVEL	75.06		75.77		76.18		76.47		76.77			
CHAINAGE	90		105		120		135		145.5			

SITE SECTION A
SCALE: 1:500 (H)
SCALE: 1:100 (V)
006

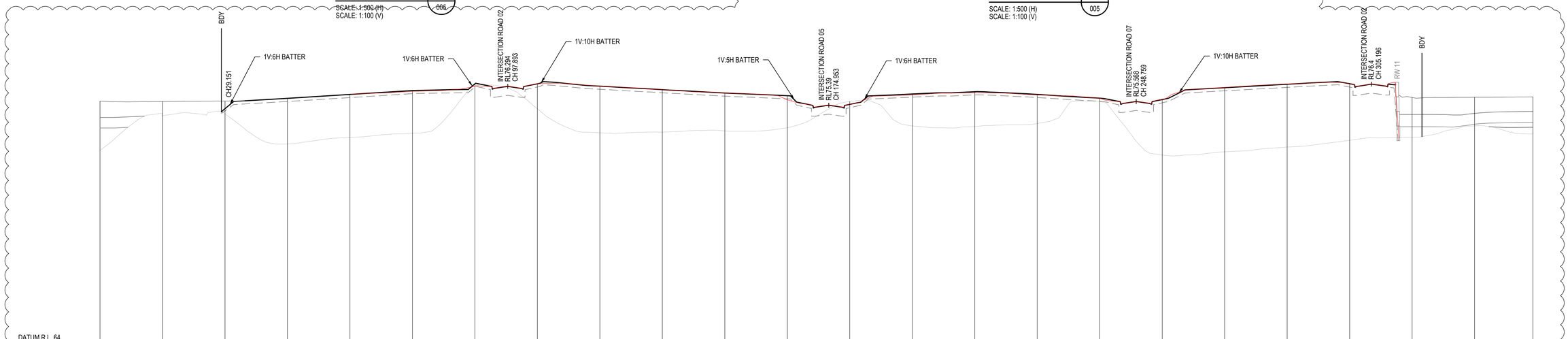


DATUM R.L. 70

DESIGN LEVEL			81.15	81.29	80.9	81.04	80.34	80.34	80.12	80.10	79.67	79.88
EXISTING LEVEL	81.41		81.67		81.85		81.07		79.96		79.45	
CHAINAGE	0		15		30		45		60		75	

DESIGN LEVEL	79.25	79.25										
EXISTING LEVEL	79.18		78.48	78.49								
CHAINAGE	90		105	105.285								

SITE SECTION D
SCALE: 1:500 (H)
SCALE: 1:100 (V)
005



DATUM R.L. 64

DESIGN LEVEL			75.22	75.72	75.91	75.96	76.09	76.05	76.41	76.31	76.41	76.41
EXISTING LEVEL	73.21	74.87		74.97		73.54		73.85		74.05		76.31
CHAINAGE	0	15		30		45		60		75		90

DESIGN LEVEL	76.3	76.30	76.14	76.13	75.97	75.98	75.84	75.65	75.43	75.44	75.93	75.88
EXISTING LEVEL		75.22		74.07		74.1		74.16		74.31		75.57
CHAINAGE	105		120		135		150		165		180	

DESIGN LEVEL	75.99	76.04	75.87	75.91	75.72	75.73	75.67	75.66	76.24	76.23	76.41	76.39
EXISTING LEVEL		74.4		74.51		75.56		73		73.16		73.38
CHAINAGE	195		210		225		240		255		270	

DESIGN LEVEL	76.42	76.39										
EXISTING LEVEL		73.71		73.86		74.4		74.01				
CHAINAGE	285		300		315		330	343.992				

SITE SECTION B
SCALE: 1:500 (H)
SCALE: 1:100 (V)
004

LEGEND

- DESIGN SURFACE LEVEL
- EXISTING SURFACE LEVEL
- BULK EARTHWORKS SURFACE LEVEL
- EXISTING LOT BOUNDARY
- SANDSTONE BLOCK RETAINING WALL
- CONCRETE SLEEPER WALL
- PMF LEVEL
- 100YR FPL LEVEL
- 100YR LEVEL
- 5YR LEVEL

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ORION GROUP

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APPROVAL
19/03/2026
SUBDIVISION WORKS CERTIFICATE
DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	AP	AP	AP	4/11/2025	ISSUED FOR MOD APPLICATION
B	MG	DH	MP	MP	6/01/2025	ISSUED FOR SUBDIVISION WORKS CERTIFICATE
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale:
0 5 10 15 20 25 30 35 40 45 50
SCALE 1:500 (A1) SCALE 1:1000 (A3)
0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100 (A1) SCALE 1:200 (A3)

For: mirvac

By: ORION
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project: 2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

Title: SITE REGRADING SECTIONS SHEET 01

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	006	C

NORTH

LOT 2
DP 1276275

CHARLES MCINTOSH PARKWAY

FRESHWATER DRIVE

DRIVEWAY 1

ROAD 02

SWALE TO CONVEY BYPASS FLOWS FROM PIT D/08. REFER TYPICAL DETAIL ON THIS PLAN

1V:6H BATTER

1V:4H BATTER

EXISTING HEADWALL

MATCH EXISTING LEVELS ALONG BOUNDARY

RELOCATE AND RECONSTRUCT ✓ EXISTING IAD PITS AND PIPES

EXISTING DEVELOPMENT

1V:10H BATTER

REMOVE GRATE FROM EXISTING PIT AND CONSTRUCT NEW E.K.I. LINTEL ✓

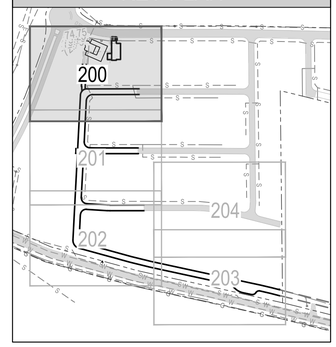
LIMIT OF WORKS CH 146.749
MAKE SMOOTH CONNECTION WITH EXISTING WORKS

EXISTING TURNING HEAD TO BE DEMOLISHED ✓

LEVELS TO MATCH EXISTING LEVELS AT BOUNDARY

FOR CONTINUATION REFER TO SWC-201

KEY PLAN



LEGEND

FLOOD WSL POST 5 YEAR	
FLOOD WSL POST 20 YEAR	
FLOOD WSL POST 100 YEAR	
PMF FLOOD LEVEL	
FLOOD WSL POST 100 YEAR FPL	
1.2m HIGH POST AND RAIL FENCE	
EXISTING CONCRETE PIPE, PIT & HEADWALL TO BE DEMOLISHED	
DENOTES ROOF WATER CONNECTION IN KERB TO COUNCIL STANDARD	◭
DENOTES ROOF WATER CONNECTION TO REAR OF PIT. REFER COUNCIL STANDARD	◑

WAE LEGEND

- DENOTES 5YR ARI FLOOD LEVEL EXTENT
- DENOTES 100YR ARI FLOOD LEVEL EXTENT
- DENOTES 100YR ARI FPL EXTENT
- DENOTES PMF EXTENT

FLOOD LINES FOR THE 5%, 1%, FLOOD PLANNING LEVEL AND PMF ARE EXTRACTED FROM THE APPROVED SWC.16.2023.399.1 & SWC.16.2024.134.1, WHICH REFLECTS THE LAST AVAILABLE ENDORSED FLOOD INFORMATION FOR THE SITE.

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DATE: 20/04/2026

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EASEMENTS

(A)	DENOTES 0.9m WIDE MAINTENANCE & ACCESS EASEMENT
(B)	DENOTES 1.5m WIDE & VARIABLE DRAINAGE EASEMENT
(D)	DENOTES 1.75m WIDE & VARIABLE RIGHT OF ACCESS FOR DRAINAGE & SERVICES EASEMENT
(J)	DENOTES VARIABLE DRAINAGE EASEMENT
(J1)	DENOTES ONSITE DETENTION & WATER QUALITY FACILITY VARIABLE WIDTH EASEMENT

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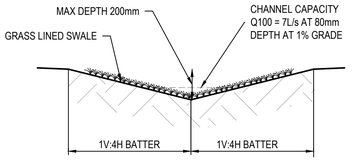

TYPICAL SWALE SECTION DETAIL
SCALE 1:20

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Zero Damage - Zero Harm

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Scale:
0 2.5 5 7.5 10 12.5 15 17.5 20 22.5 25
SCALE 1:250 (A1) SCALE 1:500 (A3)
0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0
SCALE 1:20 (A1) SCALE 1:40 (A3)

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Project: 2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

Title: ENGINEERING PLAN SHEET 01

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	200	C

FOR CONTINUATION REFER TO SWC-200

NORTH

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WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026

REGISTERED SURVEYOR ID: 8890
ORION GROUP

WAE LEGEND

- DENOTES 5YR ARI FLOOD LEVEL EXTENT
- DENOTES 100YR ARI FLOOD LEVEL EXTENT
- DENOTES 100YR ARI FPL EXTENT
- DENOTES PMF EXTENT

FLOOD LINES FOR THE 5%, 1%, FLOOD PLANNING LEVEL AND PMF ARE EXTRACTED FROM THE APPROVED SWC.16.2023.399.1 & SWC.16.2024.134.1, WHICH REFLECTS THE LAST AVAILABLE ENDORSED FLOOD INFORMATION FOR THE SITE.

ROAD 02

ROAD 05

1V:4H BATTER

SCOUR PROTECTION D_{50} = 300

1V:10H BATTER

1V:6H BATTER

CONNECT TO EXISTING DRAINAGE

MATCH EXISTING LEVELS ALONG BOUNDARY

REMOVE GRATE FROM EXISTING PIT AND CONSTRUCT NEW E.K.I. LINTEL

LIMIT OF WORKS CH 148.786. MAKE SMOOTH CONNECTION WITH EXISTING WORKS

LOCKABLE GATE

CONSTRUCT TAILOUT. REFER TO DETAIL ON PLAN 535.

ROCK SCOUR PROTECTION REFER TO PLAN 535 FOR DETAILS

GPT REFER TO PLAN 550 FOR DETAILS

RECONSTRUCT EXISTING STORMWATER PIPE

CONNECT TO EXISTING DRAINAGE

EXISTING TURNING HEAD TO BE DEMOLISHED

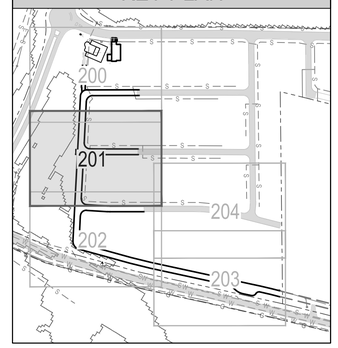
BASIN PD04

REFER TO PLAN 600 - 601 FOR BASIN PLAN, SECTIONS AND DETAILS

FOR CONTINUATION REFER TO SWC-202

FOR CONTINUATION REFER TO SWC-204

KEY PLAN



LEGEND

- FLOOD WSL POST 5 YEAR
- FLOOD WSL POST 20 YEAR
- FLOOD WSL POST 100 YEAR
- PMF FLOOD LEVEL
- FLOOD WSL POST 100 YEAR FPL
- 1.2m HIGH POST AND RAIL FENCE
- 1.8m HIGH CHAINWIRE FENCE
- EXISTING CONCRETE PIPE, PIT & HEADWALL TO BE DEMOLISHED
- DENOTES ROOF WATER CONNECTION IN KERB TO COUNCIL STANDARD
- DENOTES ROOF WATER CONNECTION TO REAR OF PIT. REFER COUNCIL STANDARD
- DISH DRAIN (DD)

EASEMENTS

(A)	DENOTES 0.9m WIDE MAINTENANCE & ACCESS EASEMENT
(B)	DENOTES 1.5m WIDE & VARIABLE DRAINAGE EASEMENT
(D)	DENOTES 1.75m WIDE & VARIABLE RIGHT OF ACCESS FOR DRAINAGE & SERVICES EASEMENT
(J)	DENOTES VARIABLE DRAINAGE EASEMENT
(J1)	DENOTES ONSITE DETENTION & WATER QUALITY FACILITY VARIABLE WIDTH EASEMENT

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Zero Damage - Zero Harm

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	AP	AP	AP	4/11/2025	ISSUED FOR MOD APPLICATION
B	MG	DH	MP	MP	6/01/2025	ISSUED FOR SUBDIVISION WORKS CERTIFICATE
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale:
0 2.5 5 7.5 10 12.5 15 17.5 20 22.5 25
SCALE 1:250 (A1) SCALE 1:500 (A3)

For: mirvac

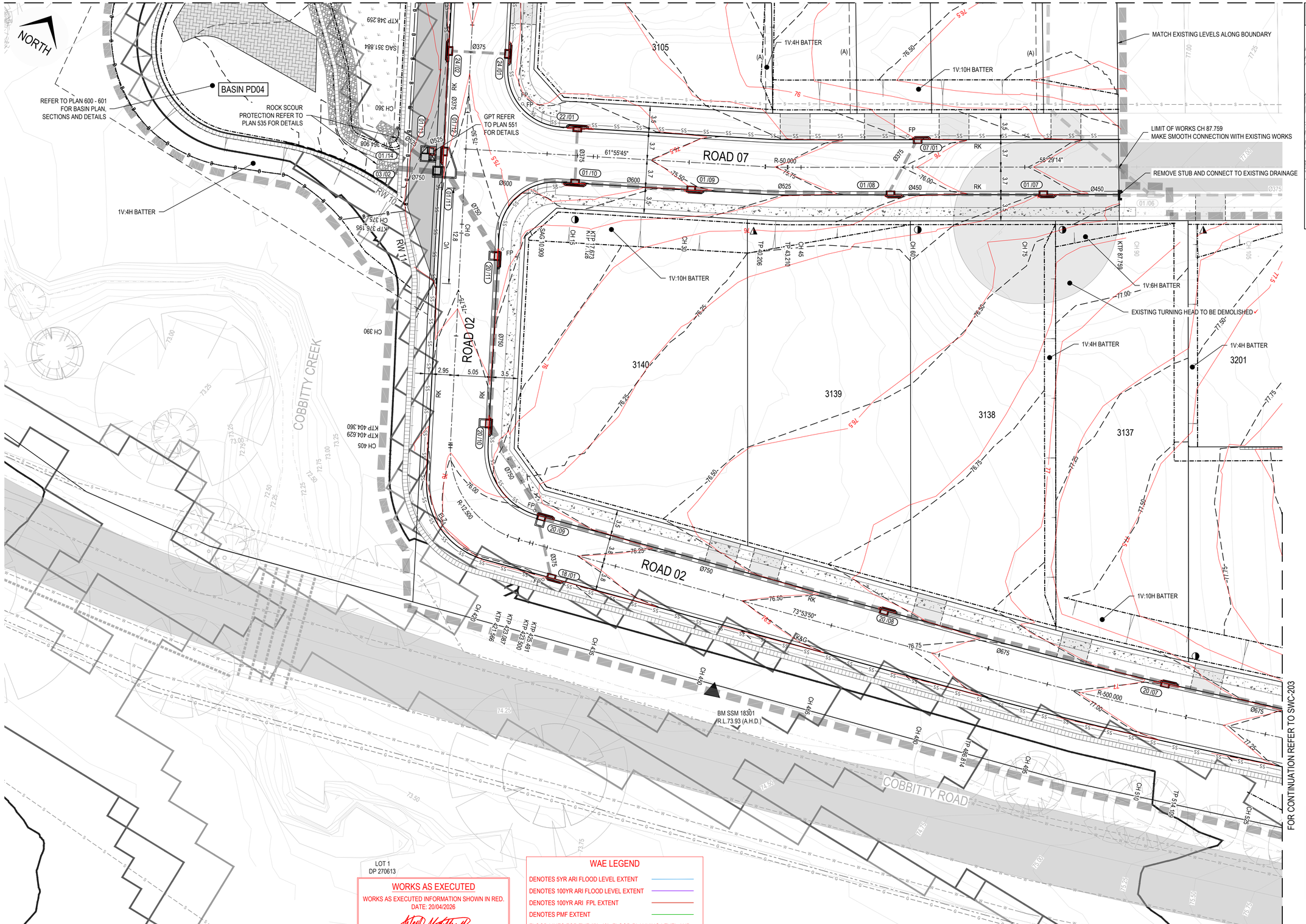
By: ORION
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theorigroup.au

Project: 2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

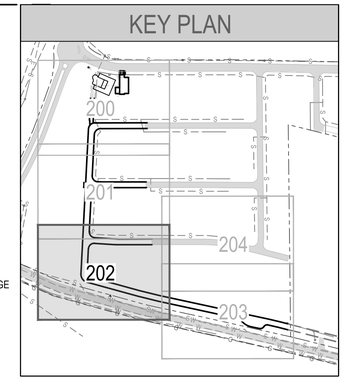
Title: ENGINEERING PLAN SHEET 02

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	201	C

FOR CONTINUATION REFER TO SWC-201



KEY PLAN



LEGEND

FLOOD WSL POST 5 YEAR	
FLOOD WSL POST 20 YEAR	
FLOOD WSL POST 100 YEAR	
PMF FLOOD LEVEL	
FLOOD WSL POST 100 YEAR FPL	
1.2m HIGH POST AND RAIL FENCE	
EXISTING CONCRETE PIPE, PIT & HEADWALL TO BE DEMOLISHED	
DENOTES ROOF WATER CONNECTION IN KERB TO COUNCIL STANDARD	◭
DENOTES ROOF WATER CONNECTION TO REAR OF PIT. REFER COUNCIL STANDARD	◑

EASEMENTS

(A)	DENOTES 0.9m WIDE MAINTENANCE & ACCESS EASEMENT

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Zero Damage - Zero Harm

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APPROVAL

19/03/2026

SUBDIVISION WORKS CERTIFICATE

DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

LOT 1
DP 270613

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026

REGISTERED SURVEYOR ID: 8890
ORION GROUP

WAE LEGEND

- DENOTES 5YR ARI FLOOD LEVEL EXTENT
- DENOTES 100YR ARI FLOOD LEVEL EXTENT
- DENOTES 100YR ARI FPL EXTENT
- DENOTES PMF EXTENT

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SCALE 1:250 (A1) SCALE 1:500 (A3)

For: mirvac

By: ORION
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theorionngroup.au

Project:
2 FRESHWATER DRIVE,
COBBITTY
(TRANCHE 3, STAGE 3a)
ROAD & DRAINAGE DESIGN

Title:
ENGINEERING PLAN
SHEET 03

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	202	C

FOR CONTINUATION REFER TO SWC-204

FOR CONTINUATION REFER TO SWC-202

NORTH

EXISTING SALES OFFICE

RW 1

RW 6

ROAD 02

COBBITTY ROAD

1V:4H BATTER

1V:10H BATTER

MATCH EXISTING LEVELS ALONG BOUNDARY

PROVIDED REFLECTORISED GUIDE POST AT 1.5m CENTRES

EXISTING SERVICES TO BE ADJUSTED

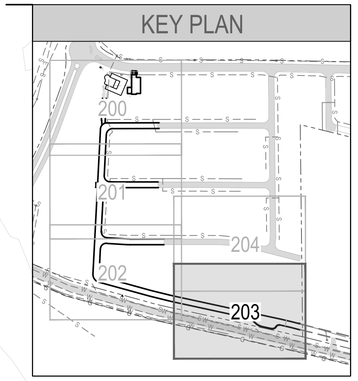
EXISTING PAVEMENT TO BE REMOVED

PROVIDE REMOVABLE JERSEY KERB (TYP)

LIMIT OF ROAD WORKS CH 687.106

LOT 1
DP 270613

KEY PLAN



LEGEND

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- FLOOD WSL POST 20 YEAR
- FLOOD WSL POST 100 YEAR
- PMF FLOOD LEVEL
- FLOOD WSL POST 100 YEAR FPL
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- DISH DRAIN — DD

EASEMENTS

(A)	DENOTES 0.9m WIDE MAINTENANCE & ACCESS EASEMENT
(B)	DENOTES 1.5m WIDE & VARIABLE DRAINAGE EASEMENT

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APPROVAL

19/03/2026

SUBDIVISION WORKS CERTIFICATE

DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

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DATE: 20/04/2026
REGISTERED SURVEYOR ID: 8890
ORION GROUP

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
D	MG	DH	MP	MP	18/12/2025	ISSUED FOR SUBDIVISION WORKS CERTIFICATE
C	WP	AP	AP	AP	4/11/2025	ISSUED FOR MOD APPLICATION
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SCALE 1:250 (A1) SCALE 1:500 (A3)

For: mirvac

By: ORION
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project: 2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

Title: ENGINEERING PLAN SHEET 04

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	203	D

NORTH

FOR CONTINUATION REFER TO SWC-201 AND SWC-202

FOR CONTINUATION REFER TO SWC-203

EXISTING DEVELOPEMENT

CONNECT PIPE TO EXISTING PIT ✓

ROAD 07

ROAD 03

EXISTING SALES CENTRE BUILDING ENVELOPE

MATCH EXISTING LEVELS AT BOUNDARY

LOT 1 DP 1014583

1V:10H BATTER

1V:6H BATTER

RW 1 RW 2 RW 3 RW 4 RW 5 RW 6

3134 3135 3136 3201 3202 3204 3205 3301 3302

200 201 202 203 204

WORKS AS EXECUTED

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ORION GROUP

WAE LEGEND

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DENOTES 100YR ARI FPL EXTENT

DENOTES PMF EXTENT

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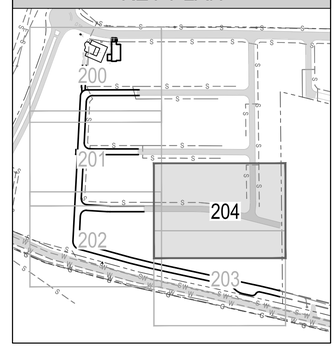
KEY PLAN



LEGEND

DENOTES ROOF WATER CONNECTION IN KERB TO COUNCIL STANDARD	◭

EASEMENTS

(A)	DENOTES 0.9m WIDE MAINTENANCE & ACCESS EASEMENT
(B)	DENOTES 1.5m WIDE & VARIABLE DRAINAGE EASEMENT

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REFER TO PLAN 215 FOR CARPARK DETAILS

CAMDEN COUNCIL
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APPROVAL

19/03/2026

SUBDIVISION WORKS CERTIFICATE

DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
D	MG	DH	MP	MP	18/12/2025	ISSUED FOR SUBDIVISION WORKS CERTIFICATE
C	WP	AP	AP	AP	4/11/2025	ISSUED FOR MOD APPLICATION
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SCALE 1:250 (A1) SCALE 1:500 (A3)

For: mirvac

By: ORION

ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project: 2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

Title: ENGINEERING PLAN SHEET 05

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	204	D

NORTH

FRESHWATER DRIVE

CONNECT AT IL. 73.264
73.25

Ø375 LAID AT 1%
0.9%

900x900
1200x1200 SIP
COVER RL. 75.41 75.28
IL.u 73.496 73.52
IL.d 73.496 73.47
D=1.914 1.76u
1.81d

Ø375 LAID AT 7.29%
1.4%

FUTURE DRIVEWAY

CONSTRUCT VEHICLE CROSS OVER TO COUNCIL STANDARD DRAWING 'DW27'

GGP EKI 1.8m
RL. 75.61 75.59 LIP
IL. 74.494 73.71
D=1.116 1.88

REFER TO ARCHITECTURAL PLANS FOR BUILDING DETAILS

DRAINAGE EASEMENT

REFER TO ARCHITECTURAL PLANS FOR ACCESS FINISH DETAILS

RAINWATER TANK

PATH 1

PATH 2

PROVIDE PRAM RAMP FOR PEDESTRIAN ACCESS

SALES CENTRE

3128

CARPARK 1

PROPOSED WHEEL STOPS

PROVIDE BOLLARD

FUTURE DRIVEWAY ACCESS

RIGHT OF ACCESS EASEMENT

CREST 49.24

CREST 30.44

SAG 43.84

FALL

K&G

ES

FP

DP

Ø375

Ø300

Ø225

D /04

D /05

D /06

D /07

D /08

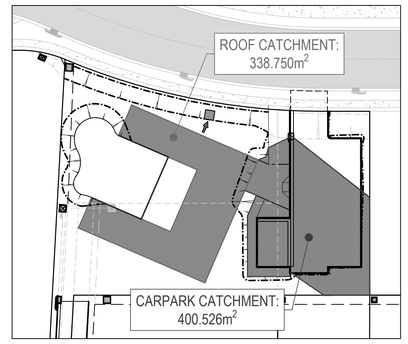
D /09

D /10

LEGEND

- PROPOSED LOT BOUNDARY
- FUTURE LOT BOUNDARY
- EXISTING CONTOURS AND LABELS — 50.00
- EXISTING SEWER & STRUCTURE — S — MH
- PROPOSED STORMWATER DRAINAGE PIPE & STRUCTURE
- EXISTING STORMWATER DRAINAGE PIPE & STRUCTURE
- FUTURE STORMWATER DRAINAGE PIPE & STRUCTURE
- PROPOSED CARPARK PAVEMENT
- PROPOSED VEHICLE CROSS OVER
- PROPOSED KERB & GUTTER — K&G
- PROPOSED EDGE STRIP — ES
- PROPOSED DISH DRAIN — DD
- PROPOSED DOWN PIPE DRAINAGE LINE — DP
- PROPOSED SUBSOIL DRAINAGE WITH FLUSHING POINT — FP — S

REFER TO PLAN 216 FOR CARPARK SETOUT & DETAILS



INTERIM SALES CENTRE CATCHMENT PLAN
SCALE: 1:500

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C

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SCALE 1:200 (A3)

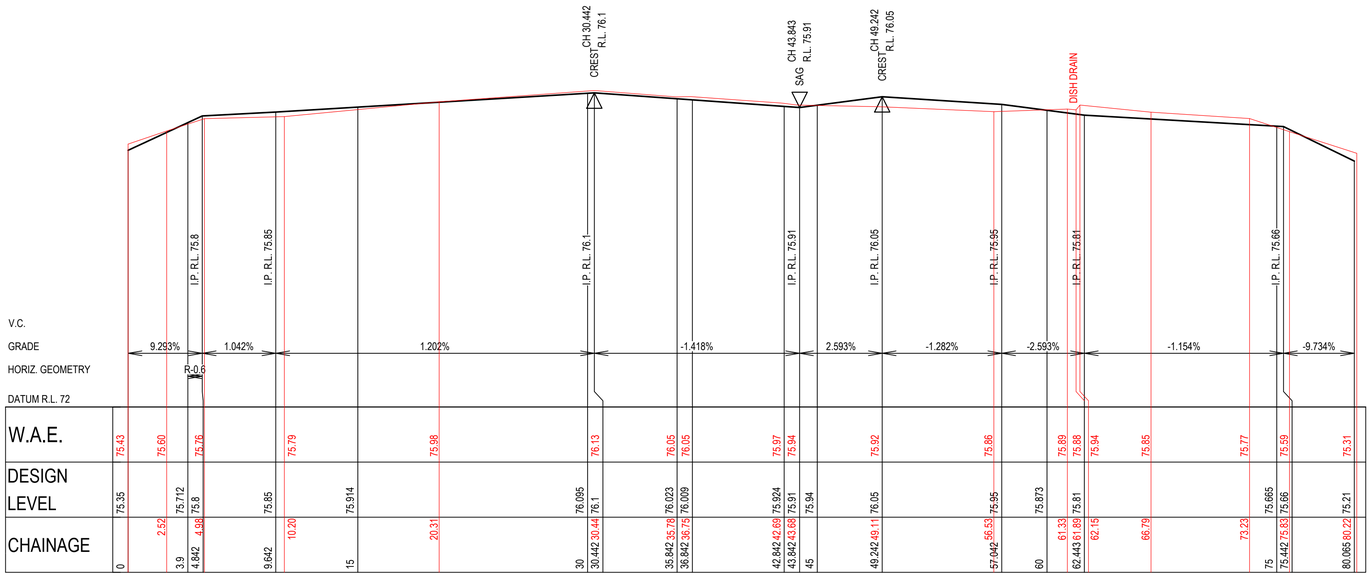
For: mirvac

By: ORION
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project: 2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

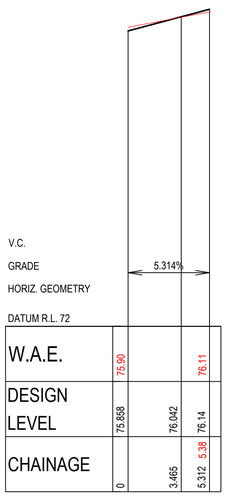
Title: CARPARK SETOUT PLAN

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	215	C



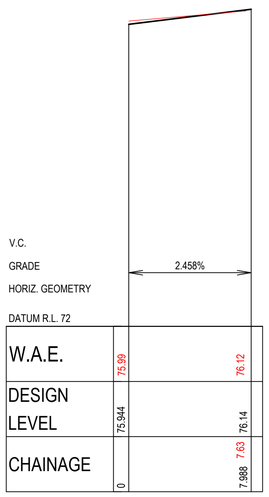
KERB RETURN CARPARK 1

SCALE 1:200 (H)
SCALE 1:40 (V)



KERB RETURN PATH 1

SCALE 1:200 (H)
SCALE 1:40 (V)



KERB RETURN PATH 2

SCALE 1:200 (H)
SCALE 1:40 (V)

B

SETOUT TABLE CARPARK 1

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	288527.02	6234130.728	148°25'59.27"		
3.9	288529.062	6234127.405	148°25'59.27"		
4.371	288529.376	6234126.894		-0.6	0.942
4.842	288529.887	6234127.208	58°25'59.30"		
9.642	288533.977	6234129.72			
30.442	288544.866	6234111.998			
35.842	288540.265	6234109.171			
36.842	288540.788	6234108.319			
42.842	288535.676	6234105.178			
43.842	288535.153	6234106.03			
49.242	288530.552	6234103.203			
57.042	288526.468	6234109.849			
62.443	288531.069	6234112.676			
80.065	288521.844	6234127.691	328°25'58.92"		

SETOUT TABLE PATH 2

CHAINAGE	EASTING	NORTHING	BEARING
0	288530.201	6234113.803	261°52'14.65"
7.988	288522.293	6234112.673	261°52'14.65"

SETOUT TABLE PATH 1

CHAINAGE	EASTING	NORTHING	BEARING
0	288526.302	6234120.149	238°24'28.42"
3.465	288523.35	6234118.334	
5.312	288521.522	6234118.073	261°52'13.06"

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A	NG	DH	MP	MP	6/01/2025	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale:
0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 20.0
SCALE 1:200 (A1) SCALE 1:400 (A3)
0 0.4 0.8 1.2 1.6 2 2.4 2.8 3.2 3.6 4
SCALE 1:40 (A1) SCALE 1:80 (A3)

For: mirvac

By: ORION

ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project: 2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

Title: CARPARK SETOUT TABLES & KERB RETURN SECTIONS — B

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	216	B

LEGEND	
DESIGN SURFACE	———
EXISTING SURFACE	———
FUTURE SURFACE	— — — — —

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026

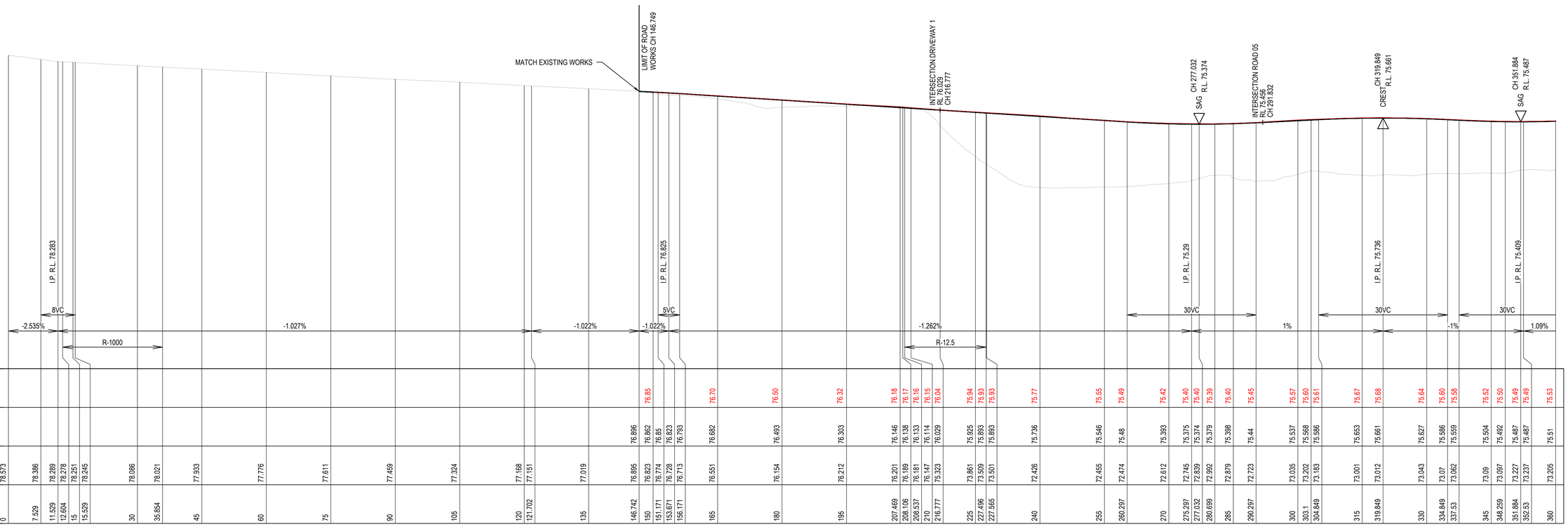
REGISTERED SURVEYOR ID: 8890
ORION GROUP

CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL

19/03/2026

SUBDIVISION WORKS CERTIFICATE

DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1



CHAINAGE	0	7.529	11.529	12.604	15	15.529	30	35.854	45	60	75	90	105	120	121.702	135	146.742	150	151.171	153.671	156.171	165	180	195	207.469	208.106	208.537	210	216.777	225	227.496	227.565	240	255	260.297	270	275.297	277.032	280.699	285	290.297	300	303.1	304.849	315	319.849	330	334.849	337.53	345	348.259	351.884	362.53	360
EXISTING LEVEL	78.573	78.386	78.289	78.278	78.251	78.245	78.086	78.021	77.933	77.776	77.611	77.459	77.324	77.168	77.151	77.019	76.895	76.823	76.774	76.728	76.713	76.551	76.154	76.212	76.201	76.189	76.181	76.147	75.323	73.861	73.509	73.501	72.426	72.455	72.474	72.612	72.745	72.839	72.992	72.879	72.723	73.035	73.202	73.183	73.001	73.012	73.043	73.07	73.062	73.09	73.097	73.227	73.237	73.205
DESIGN LEVEL																	76.896	76.862	76.85	76.823	76.793	76.682	76.493	76.303	76.146	76.138	76.133	76.114	76.029	75.926	75.893	75.893	75.736	75.546	75.48	75.393	75.375	75.374	75.379	75.398	75.44	75.537	75.568	75.586	75.653	75.661	75.627	75.586	75.559	75.504	75.492	75.487	75.487	75.51
W.A.E.																	76.85					76.70	76.50	76.32	76.18	76.17	76.16	76.15	76.04	75.94	75.93	75.93	75.77	75.55	75.49	75.42	75.40	75.40	75.39	75.40	75.45	75.57	75.60	75.61	75.67	75.68	75.64	75.60	75.58	75.52	75.50	75.49	75.49	75.53

LONGITUDINAL SECTION - ROAD 02
SCALE 1:500 (H)
SCALE 1:100 (V)

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	AP	AP	AP	17/07/2025	ISSUED FOR MOD APPLICATION
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale:
0 5 10 15 20 25 30 35 40 45 50
SCALE 1:500 (A1) SCALE 1:1000 (A3)
0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100 (A1) SCALE 1:200 (A3)

For: mirvac

By: ORION
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project:
2 FRESHWATER DRIVE, COBBITTY
(TRANCHE 3, STAGE 3a)
ROAD & DRAINAGE DESIGN

Title:
ROAD LONG SECTIONS SHEET 01

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	301	B

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026

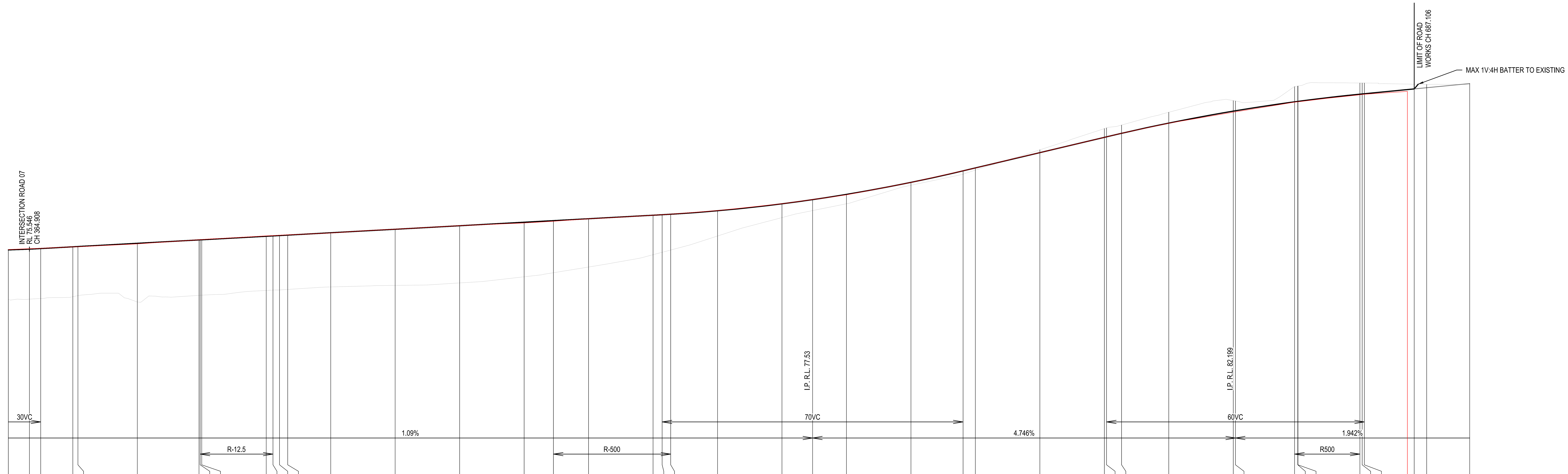
REGISTERED SURVEYOR ID: 8890
ORION GROUP

CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL

19/03/2026

SUBDIVISION WORKS CERTIFICATE

DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1



CHAINAGE	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
360	75.53	75.51	73.205
364.908	75.56	75.546	73.218
367.53	75.58	75.573	73.248
375	75.65	75.654	73.327
376.195	75.65	75.667	73.381
390	75.79	75.817	73.089
404.36	75.98	75.974	73.394
404.629	75.98	75.977	73.397
405	75.99	75.981	73.402
420	76.16	76.144	73.622
421.565	76.18	76.162	73.639
423.087	76.19	76.178	73.644
425	76.21	76.199	73.669
435	76.29	76.308	73.786
450	76.47	76.471	73.856
465	76.64	76.635	73.97
480	76.76	76.798	74.258
486.814	76.84	76.873	74.446
495	76.95	76.962	74.713
510	77.12	77.125	75.285
512.126	77.15	77.149	75.398
514.109	77.17	77.171	75.504
525	77.34	77.332	76.156
540	77.66	77.655	77.016
547.126	77.84	77.85	77.343
555	78.07	78.096	77.659
570	78.65	78.654	78.522
582.126	79.19	79.191	79.035
585	79.32	79.328	79.225
600	80.04	80.039	80.17
615	80.75	80.751	81.158
615.505	80.77	80.775	81.191
618.999	80.94	80.938	81.322
630	81.41	81.414	81.921
645	81.92	81.972	82.46
645.505	81.93	81.989	82.442
659.271	82.39	82.405	83.113
660	82.40	82.424	83.138
660.049	82.40	82.426	83.14
674.47	82.73	82.761	83.282
675	82.74	82.772	83.281
675.505	82.75	82.782	83.28
685.51	82.89		
687.106		83.007	83.227
690		83.063	83.213
700		83.257	83.216

LONGITUDINAL SECTION - ROAD 02

SCALE 1:500 (H)
SCALE 1:100 (V)

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	AP	AP	AP	17/07/2025	ISSUED FOR MOD APPLICATION
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale:
0 5 10 15 20 25 30 35 40 45 50
SCALE 1:500 (A1) SCALE 1:1000 (A3)
0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100 (A1) SCALE 1:200 (A3)

For: mirvac

By: ORION

ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project:
2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

Title:
ROAD LONG SECTIONS SHEET 02

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	302	B

LEGEND

DESIGN SURFACE	solid line
EXISTING SURFACE	light line
FUTURE SURFACE	dashed line

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026

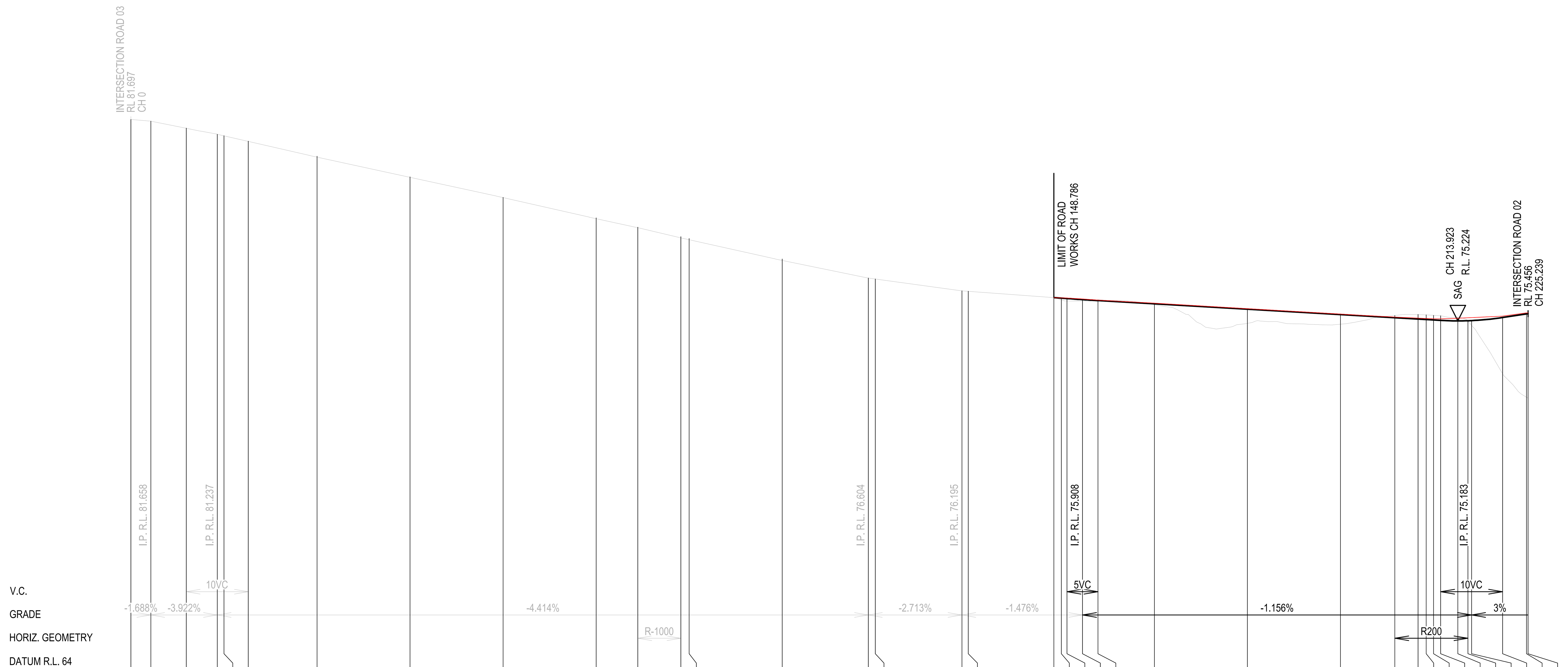
REGISTERED SURVEYOR ID: 8890
ORION GROUP

CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL

19/03/2026

SUBDIVISION WORKS CERTIFICATE

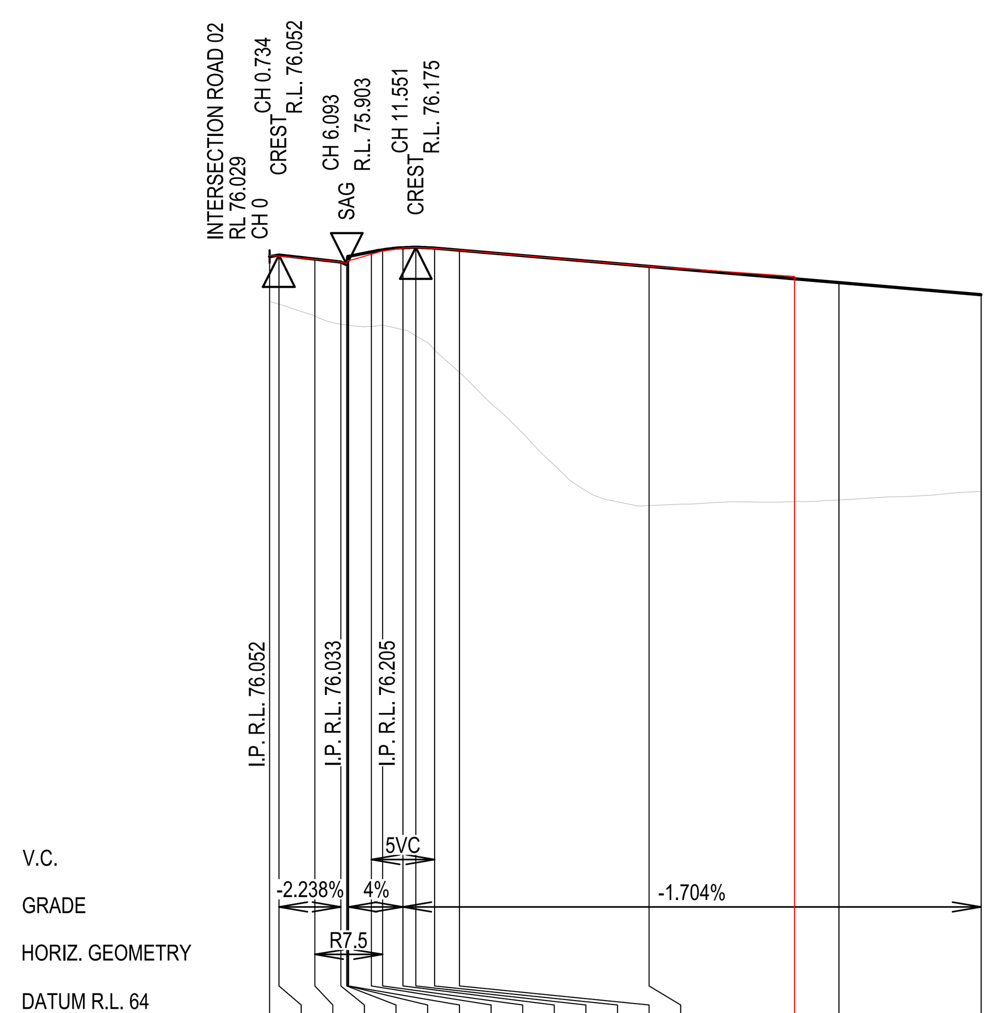
DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1



CHAINAGE	EXISTING LEVEL	DESIGN LEVEL	W.A.E.
0	81.713		
3.202	81.658		
8.923	81.429		
13.923	81.237		
15	81.188		
18.923	81.007		
30	80.501		
45	79.849		
60	79.196		
75	78.518		
81.727	78.226		
88.662	77.899		
90	77.839		
105	77.174		
118.894	76.604		
120	76.574		
133.97	76.194		
135	76.178		
148.786	75.976	75.976	75.97
150	75.903	75.958	75.96
150.913	75.867	75.945	75.96
153.413	75.869	75.91	75.93
155.913	75.873	75.879	75.89
165	75.746	75.774	75.80
180	75.145	75.601	75.62
195	75.117	75.427	75.44
203.765	75.4	75.326	75.34
207.518	75.43	75.282	75.31
208.83	75.418	75.267	75.30
210	75.404	75.254	75.29
211.141	75.39	75.24	75.29
213.923	75.33	75.224	75.31
215.558	75.216	75.23	75.32
216.141	75.084	75.235	75.33
221.141	73.522	75.333	75.38
225	72.764	75.448	75.48
225.239	72.734	75.456	75.48

LONGITUDINAL SECTION - ROAD 05

SCALE 1:500 (H)
SCALE 1:100 (V)



CHAINAGE	EXISTING LEVEL	DESIGN LEVEL	W.A.E.
0	75.323	76.03	76.04
0.734	75.277	76.052	76.03
3.58	75.089	75.988	75.98
5.634	74.96	75.942	75.94
6.093	74.946	75.903	75.92
6.192	74.944	76.033	75.96
6.248	74.942	76.033	75.97
8.044	74.925	76.105	76.07
8.93	74.944	76.136	76.11
10.544	74.874	76.17	76.16
11.551	74.778	76.175	76.17
13.044	74.553	76.163	76.16
15	74.202	76.129	76.13
30	72.094	75.874	75.87
41.49			75.71
45	72.183	75.618	
56.239	72.318		

LONGITUDINAL SECTION - DRIVEWAY 1

SCALE 1:500 (H)
SCALE 1:100 (V)

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	AP	AP	AP	17/07/2025	ISSUED FOR MOD APPLICATION
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale:
0 5 10 15 20 25 30 35 40 45 50
SCALE 1:500 (A1) SCALE 1:1000 (A3)
0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100 (A1) SCALE 1:200 (A3)

For: mirvac

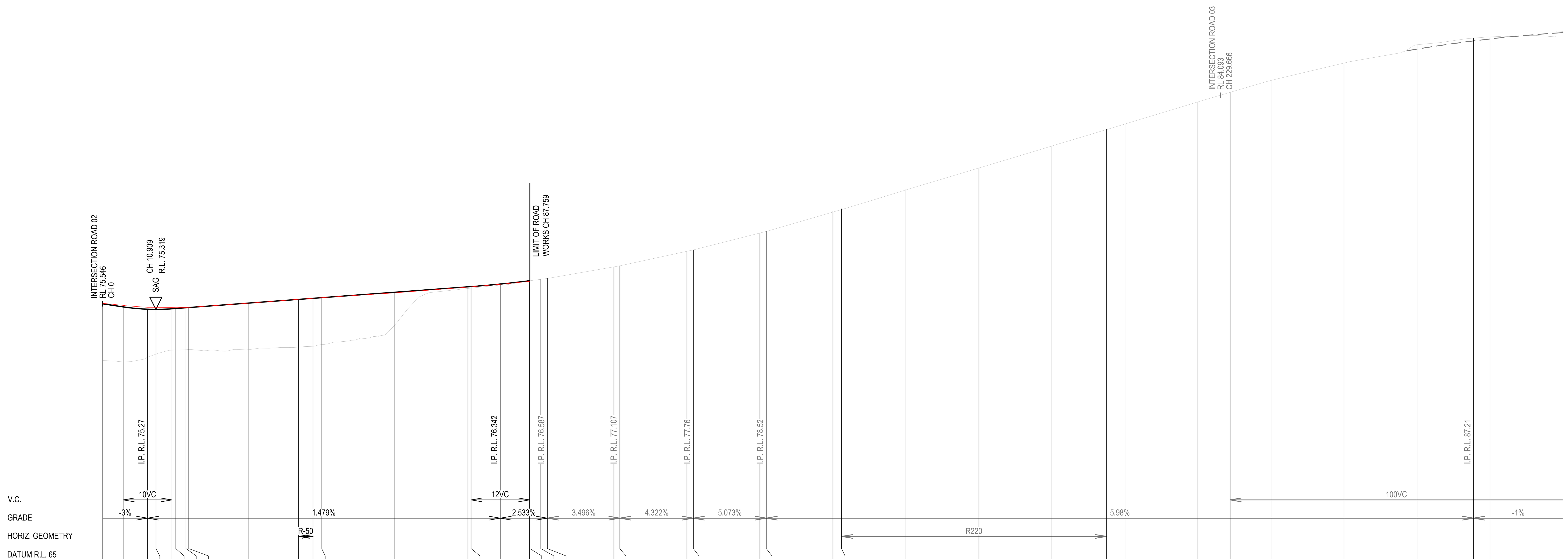
By: ORION

ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project:
2 FRESHWATER DRIVE, COBBITTY
(TRANCHE 3, STAGE 3a)
ROAD & DRAINAGE DESIGN

Title:
ROAD LONG SECTIONS
SHEET 03

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	303	B



CHAINAGE	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
0	75.56	75.546	73.218
4.211	75.48	75.42	73.163
9.211	75.40	75.326	73.36
10.909	75.40	75.319	73.481
14.211	75.40	75.344	73.643
15	75.40	75.356	73.652
17.128	75.40	75.387	73.664
17.673	75.40	75.395	73.672
30	75.57	75.577	73.666
40.206	75.73	75.728	73.768
43.21	75.77	75.773	73.804
45	75.80	75.799	73.871
60	75.99	76.021	74.675
75	76.23	76.243	76.177
75.683	76.24	76.253	76.19
81.683	76.34	76.358	76.314
87.683	76.47	76.494	76.494
87.759		76.496	76.496
90		76.553	76.552
91.357		76.587	76.587
105		77.064	77.064
106.228		77.107	77.107
120		77.702	77.701
121.336		77.76	77.759
135		78.453	78.452
136.317		78.52	78.519
150		79.338	79.31
151.784		79.445	79.414
165		80.235	80.22
180		81.132	81.12
195		82.029	82.024
206.229		82.701	82.698
210		82.926	82.926
225		83.823	83.835
231.632		84.22	84.228
240		84.696	84.712
255		85.427	85.426
270		86.001	86.179
281.632		86.338	86.451
285		86.418	86.501
300		86.677	86.728

LONGITUDINAL SECTION - ROAD 07

SCALE 1:500 (H)
SCALE 1:100 (V)

LEGEND

DESIGN SURFACE
EXISTING SURFACE
FUTURE SURFACE

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026
REGISTERED SURVEYOR ID: 8890
ORION GROUP

CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL
19/03/2026
SUBDIVISION WORKS CERTIFICATE
DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	AP	AP	AP	17/07/2025	ISSUED FOR MOD APPLICATION
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale:
0 5 10 15 20 25 30 35 40 45 50
SCALE 1:500 (A1) SCALE 1:1000 (A3)
0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100 (A1) SCALE 1:200 (A3)

For: mirvac

By: ORION

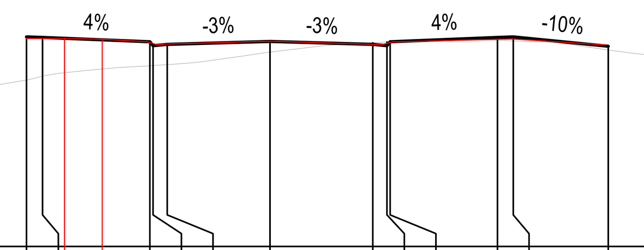
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project:
2 FRESHWATER DRIVE, COBBITTY
(TRANCHE 3, STAGE 3a)
ROAD & DRAINAGE DESIGN

Title:
ROAD LONG SECTIONS
SHEET 04

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	304	B

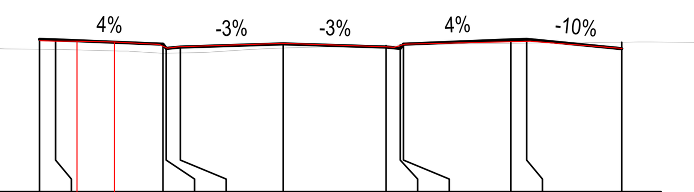
ROAD 2



DATUM R.L. 70

W.A.E.	76.59	76.59	76.59 76.56	76.48	76.39	76.40	76.50	76.40	76.39	76.48	76.56	76.57	76.38
DESIGN LEVEL	76.639	76.619		76.485	76.355	76.395	76.493	76.395	76.355	76.485	76.619	76.639	76.339
EXISTING LEVEL	75.268	75.393		75.719	75.726	75.757	76.154	76.449	76.472	76.477	76.525	76.508	76.224
OFFSET	-7.7	-7.2	6.51 5.31	-3.8 3.90	-3.7 3.58	-3.25 3.32	0	3.25 3.27	3.7 3.53	3.8 3.88	7.2	7.7	10.7

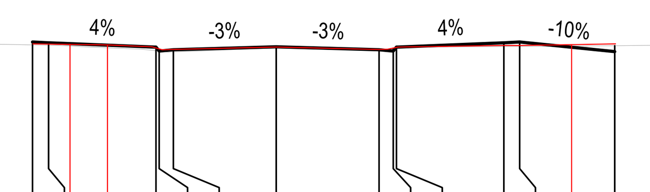
CH 180



DATUM R.L. 72

W.A.E.	76.78	76.77	76.77 76.74	76.67	76.55	76.59	76.70	76.59	76.57	76.67	76.75	76.77	76.54
DESIGN LEVEL	76.828	76.808		76.674	76.544	76.584	76.682	76.584	76.544	76.674	76.808	76.828	76.528
EXISTING LEVEL	76.513	76.507		76.382	76.384	76.394	76.551	76.637	76.647	76.649	76.702	76.708	76.736
OFFSET	-7.7	-7.2	6.52 5.34	-3.8 3.93	-3.7 3.66	-3.25 3.32	0	3.25 3.26	3.7 3.51	3.8 3.85	7.2	7.7	10.7

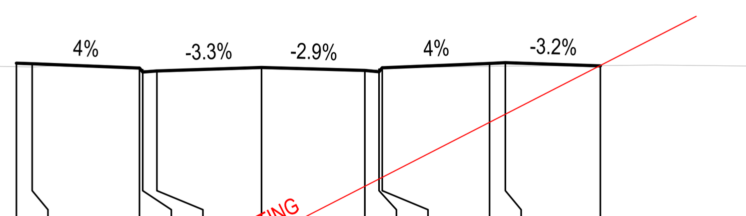
CH 165



DATUM R.L. 72

W.A.E.	76.95	76.94	76.93 76.92	76.85	76.76	76.77	76.85	76.78	76.78	76.85	76.90	76.90	76.93	76.95
DESIGN LEVEL	77.009	76.989		76.855	76.725	76.765	76.862	76.765	76.725	76.855	76.989	77.009		76.709
EXISTING LEVEL	76.923	76.909		76.732	76.721	76.698	76.823	76.786	76.797	76.825	76.865	76.869		76.897
OFFSET	-7.7	-7.2	6.52 5.33	-3.8 3.93	-3.7 3.60	-3.25 3.35	0	3.25 3.24	3.7 3.52	3.8 3.85	7.2	7.7	9.34	10.7

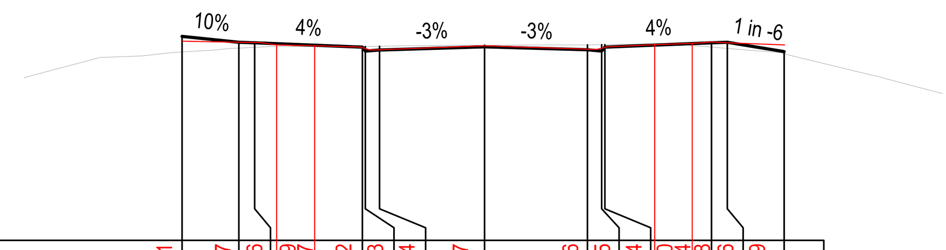
CH 150



DATUM R.L. 72

W.A.E.												
DESIGN LEVEL	77.03	77.01	76.876	76.746	76.786	76.896	76.8	76.76	76.89	77.024	77.044	76.948
EXISTING LEVEL	76.919	76.911	76.848	76.823	76.786	76.895	76.8	76.848	76.874	76.931	76.935	76.952
OFFSET	-7.756	-7.256	-3.856	-3.756	-3.306	0	3.266	3.716	3.816	7.216	7.716	10.716

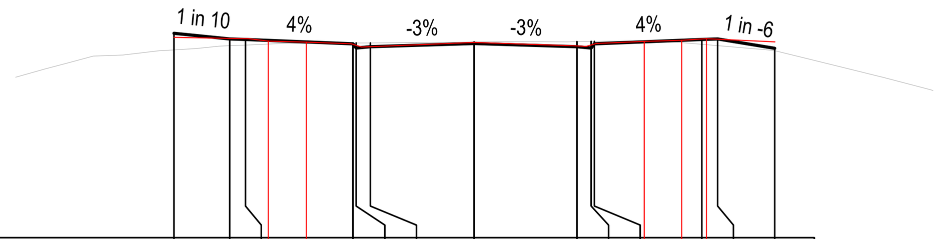
CH 146.749



DATUM R.L. 70

W.A.E.	76.31	76.27	76.26	76.19 76.17	76.12	76.03	76.04	76.17	76.06	76.05	76.14	76.20 76.24 76.28	76.26	76.19
DESIGN LEVEL	76.456	76.277	76.257		76.123	75.993	76.033	76.133	76.035	75.995	76.125	76.257	76.277	75.977
EXISTING LEVEL	75.967	76.091	76.113		76.141	76.141	76.148	76.181	76.192	76.199	76.2	76.121	76.079	75.914
OFFSET	-9.557	-7.764	-7.264	6.57 5.37	-3.864 3.93	-3.764 3.61	-3.314 3.34	0	3.25 3.27	3.7 3.54	3.8 3.86	5.38 6.56 7.169	7.669	9.47

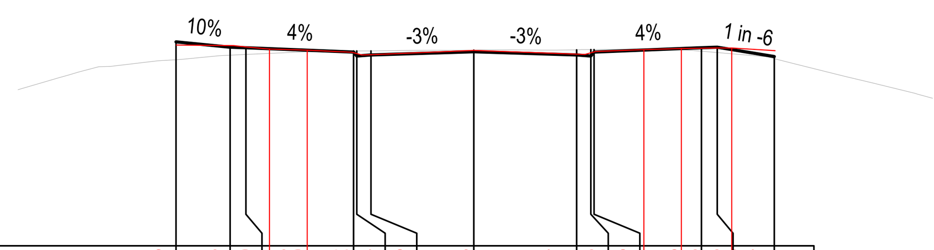
CH 208.537



DATUM R.L. 70

W.A.E.	76.34	76.30	76.29	76.21 76.18	76.13	76.03	76.04	76.17	76.06	76.05	76.14	76.20 76.24 76.28	76.29 76.28	76.19
DESIGN LEVEL	76.46	76.284	76.264		76.13	76	76.04	76.138	76.041	76.001	76.131	76.265	76.285	75.985
EXISTING LEVEL	75.94	76.07	76.092		76.153	76.154	76.162	76.189	76.199	76.205	76.207	76.114	76.072	75.914
OFFSET	-9.483	-7.723	-7.223	6.50 5.30	-3.823 3.89	-3.723 3.55	-3.273 3.30	0	3.25 3.27	3.7 3.54	3.8 3.87	5.38 6.56 7.20 7.2	7.7 7.34 7.70	9.501

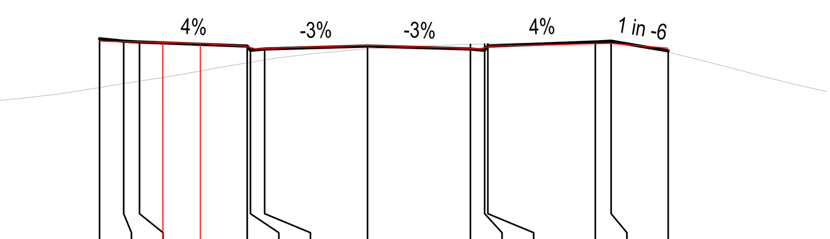
CH 208.106



DATUM R.L. 70

W.A.E.	76.35	76.33	76.30	76.23 76.20	76.12	76.04	76.05	76.18	76.07	76.06	76.15	76.21 76.25 76.26	76.26	76.27 76.17
DESIGN LEVEL	76.464	76.293	76.273		76.139	76.009	76.049	76.146	76.049	76.009	76.139	76.273	76.293	75.993
EXISTING LEVEL	75.897	76.037	76.059		76.169	76.17	76.174	76.201	76.209	76.215	76.216	76.161	76.119	75.928
OFFSET	-9.412	-7.7	-7.2	6.46 5.26	-3.8 3.85	-3.7 3.54	-3.25 3.26	0	3.25 3.26	3.7 3.52	3.8 3.86	5.38 6.56 7.2	7.7	8.16 9.501

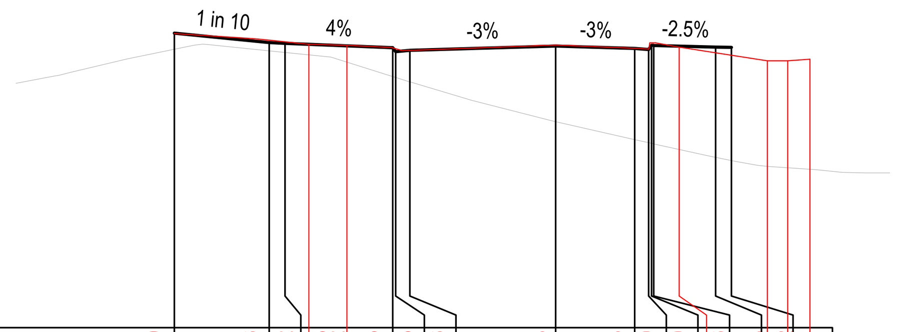
CH 207.469



DATUM R.L. 70

W.A.E.	76.45	76.43	76.42	76.41 76.37	76.29	76.20	76.22	76.32	76.21	76.21	76.29	76.35	76.38	76.23
DESIGN LEVEL	76.526	76.45	76.43		76.296	76.166	76.206	76.303	76.206	76.166	76.296	76.43	76.45	76.15
EXISTING LEVEL	74.991	75.112	75.192		75.768	75.785	75.858	76.212	76.351	76.363	76.365	76.404	76.387	76.106
OFFSET	-8.462	-7.7	-7.2	6.46 5.29	-3.8 3.88	-3.7 3.52	-3.25 3.28	0	3.25 3.29	3.7 3.55	3.8 3.88	7.2	7.7	9.501

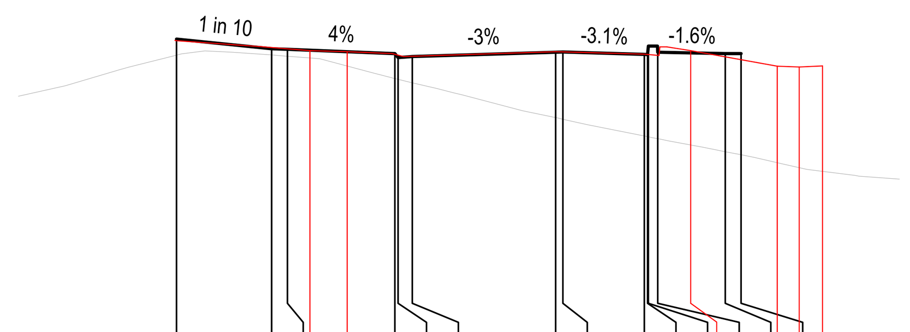
CH 195



DATUM R.L. 67

W.A.E.	76.29	76.06	76.02	75.95 75.92	75.85	75.75	75.76	75.93	75.83	75.80	76.00	75.86	75.43	75.43	75.47
DESIGN LEVEL	76.299	75.999	75.979		75.845	75.715	75.755	75.893	75.818	75.78	75.915	75.908	75.859	75.847	
EXISTING LEVEL	75.79	75.741	75.69		74.932	74.9	74.759	73.509	72.939	72.841	72.82	72.805	72.378	72.279	
OFFSET	-12.05	-9.05	-8.55	7.79 6.60	-5.15 5.20	-5.05 4.84	-4.6 4.62	0	2.5 2.49	2.938 2.95	3.035 3.16	3.103 3.91	5.058 6.70	5.558 7.33	8.04

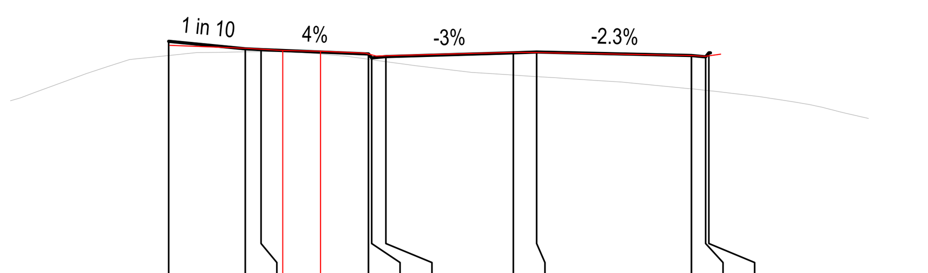
CH 227.496



DATUM R.L. 67

W.A.E.	76.29	76.10		75.97 75.94	75.87	75.78	75.80	75.94		75.86	75.82	76.09	75.97		75.48	75.45	75.49
DESIGN LEVEL	76.333	76.033	76.013		75.879	75.749	75.789	75.925	75.932	75.852	75.849	76.119	75.919	75.884	75.876		
EXISTING LEVEL	75.83	75.833	75.796		75.092	75.068	74.96	73.861	73.808	73.278	73.257	73.252	73.193	72.782	72.685		
OFFSET	-11.976	-8.976 9.32	-8.476	7.76 6.58	-5.076 5.16	-4.976 4.80	-4.526 4.55	0	0.234	2.804 2.78	2.904 3.28	2.929 3.52	3.229 4.27	5.364	5.864 7.01	7.70	8.44

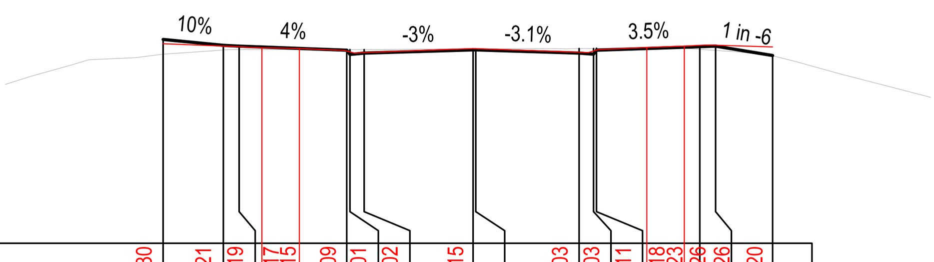
CH 225



DATUM R.L. 69

W.A.E.	76.26	76.23	76.17	76.10 76.08	76.01	75.92	75.93	76.04	76.03	75.94	75.91	75.98
DESIGN LEVEL	76.394	76.152	76.132		75.998	75.868	75.908	76.029	76.051	75.94	75.9	76.03
EXISTING LEVEL	75.946	76.059	76.062		75.824	75.811	75.75	75.323	75.277	74.891	74.842	74.831
OFFSET	-10.897	-8.476	-7.976	7.29 6.09	-4.576 4.68	-4.476 4.33	-4.026 4.09	0	0.738 0.75	5.632 5.64	6.082 6.06	6.182 6.55

CH 216.777



DATUM R.L. 70

W.A.E.	76.30	76.21	76.19	76.17 76.15	76.09	76.01	76.02	76.15		76.03	76.03	76.11	76.18 76.23 76.26	76.26	76.20
DESIGN LEVEL	76.445	76.255	76.235		76.101	75.971	76.011	76.114	76.117	76.014	75.974	76.104	76.216	76.233	75.933
EXISTING LEVEL	75.974	76.113	76.125		76.123	76.123	76.12	76.147	76.147	76.155	76.16	76.161	76.127	76.095	75.925
OFFSET	-9.799	-7.894	-7.394	6.68 5.49	-3.994 4.07	-3.894 3.74	-3.444 3.47	0	0.086	3.359 3.38	3.809 3.65	3.909 3.96	5.50 6.68 7.172	7.672	9.473

CH 210

LEGEND

DESIGN SURFACE	———
EXISTING SURFACE	———

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026

REGISTERED SURVEYOR ID: 8890
ORION GROUP

CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL

19/03/2026

SUBDIVISION WORKS CERTIFICATE

DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	AP	AP	AP	17/07/2025	ISSUED FOR MOD APPLICATION
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale: 0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 20.0
SCALE 1:200 (A1) SCALE 1:400 (A3)

For: mirvac

By: ORION

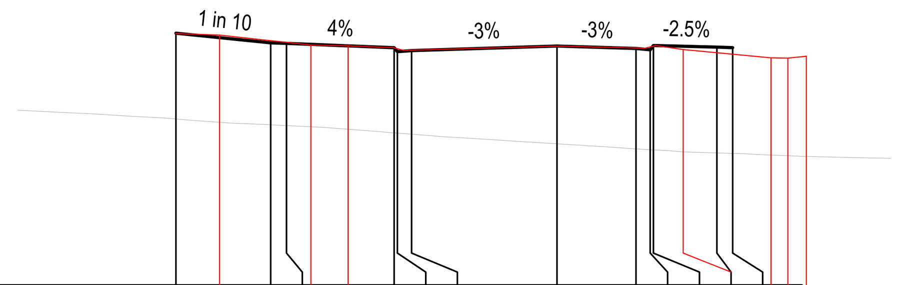
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project:
2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

Title:
ROAD CROSS SECTIONS SHEET 01

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	310	B

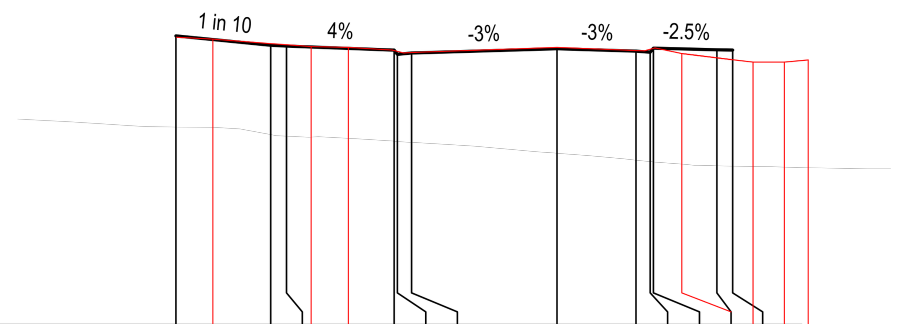
ROAD 2



DATUM R.L. 68

W.A.E.	75.94	75.89	75.72	75.66	75.58 75.56	75.50	75.40	75.42	75.55	75.49	75.47	75.56	75.44	75.18	75.16	75.22
DESIGN LEVEL	75.952		75.652	75.632		75.498	75.368	75.408	75.546	75.471	75.431	75.561	75.513	75.5		
EXISTING LEVEL	73.242		73.061	73.036		72.804	72.796	72.759	72.455	72.301	72.273	72.267	72.172	72.156		
OFFSET	-12.05	10.67	-9.05	-8.55	7.78 6.61	-5.15 5.17	-5.05 4.83	-4.6 4.59	0	2.5 2.52	2.95 2.75	3.05 3.11	5.05 3.98	5.55 6.76	7.29	7.88

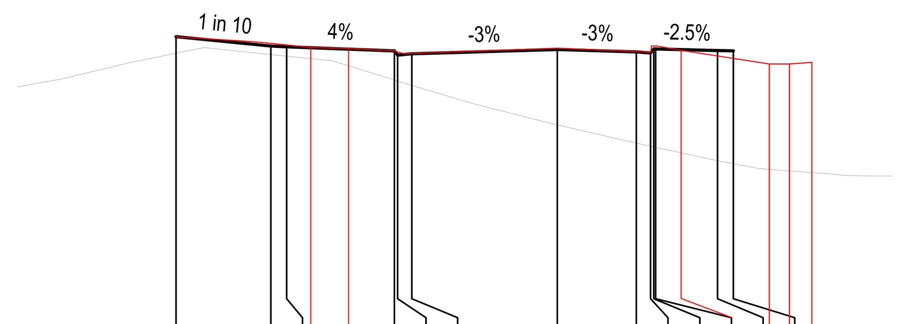
CH 255



DATUM R.L. 67

W.A.E.	76.10	76.03	75.89	75.86	75.80 75.77	75.69	75.60	75.61	75.77	75.67	75.66	75.76	75.58	75.31	75.31	75.38
DESIGN LEVEL	76.142		75.842	75.822		75.688	75.558	75.598	75.736	75.661	75.621	75.751	75.702	75.689		
EXISTING LEVEL	73.257		73.013	72.965		72.806	72.799	72.769	72.426	72.205	72.159	72.149	72.029	72.02		
OFFSET	-12.05	10.88	-9.05	-8.55	7.77 6.60	-5.15 5.21	-5.05 4.84	-4.6 4.59	0	2.5 2.55	2.95 2.76	3.05 3.10	5.05 3.95	5.55 6.20	7.19	7.94

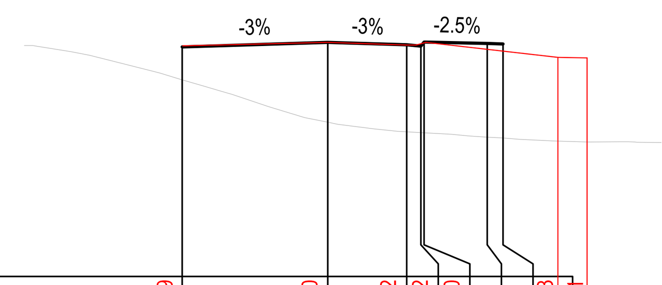
CH 240



DATUM R.L. 67

W.A.E.	76.29	76.08	76.03	75.95 75.92	75.85	75.75	75.76	75.93	75.83	75.80	75.99	75.86	75.43	75.43	75.47
DESIGN LEVEL	76.299	75.999	75.979		75.845	75.715	75.755	75.893	75.818	75.778	75.908	75.908	75.859	75.846	
EXISTING LEVEL	75.773	75.732	75.681		74.925	74.894	74.753	73.501	72.931	72.83	72.808	72.794	72.37	72.271	
OFFSET	-12.05	-9.05	-8.55	7.79 6.60	-5.15 5.20	-5.05 4.84	-4.6 4.62	0	2.5 2.49	2.95 2.95	3.05 3.16	3.11 3.91	5.06 6.70	5.56 7.33	8.04

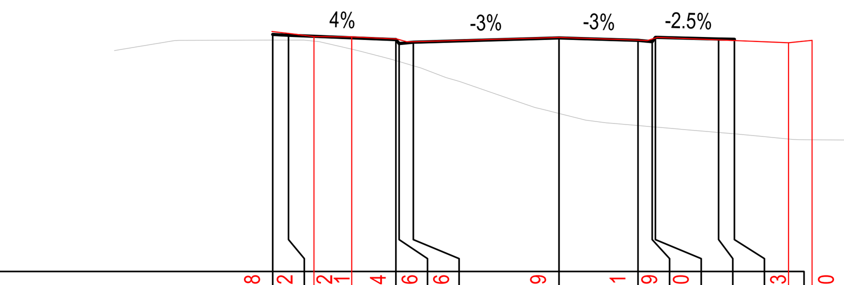
CH 227.565



DATUM R.L. 68

W.A.E.	75.29	75.40	75.32	75.32	75.40			74.93	74.91
DESIGN LEVEL	75.26	75.398	75.323	75.283	75.413	75.364	75.352		
EXISTING LEVEL	74.219	72.879	72.571	72.547	72.541	72.408	72.375		
OFFSET	-4.6	0	2.5 2.49	2.95 2.80	3.05 3.12	5.05	5.55	7.29	8.21

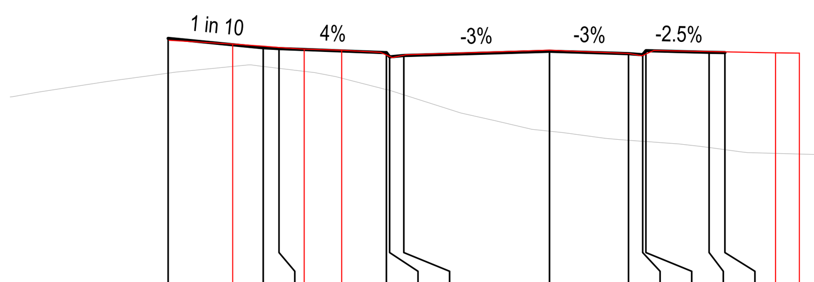
CH 285



DATUM R.L. 68

W.A.E.	75.58	75.52	75.42 75.41	75.34	75.26	75.26	75.39	75.31	75.29	75.40			75.23	75.30
DESIGN LEVEL	75.485	75.465		75.331	75.201	75.241	75.379	75.304	75.264	75.394	75.345	75.333		
EXISTING LEVEL	75.31	75.311		74.662	74.632	74.498	72.992	72.608	72.571	72.563	72.39	72.345		
OFFSET	-9.05	-8.55	7.74 6.55	-5.15 5.12	-5.05 4.81	-4.6 4.54	0	2.5 2.51	2.95 2.79	3.05 3.11	5.05	5.55	7.26	8.01

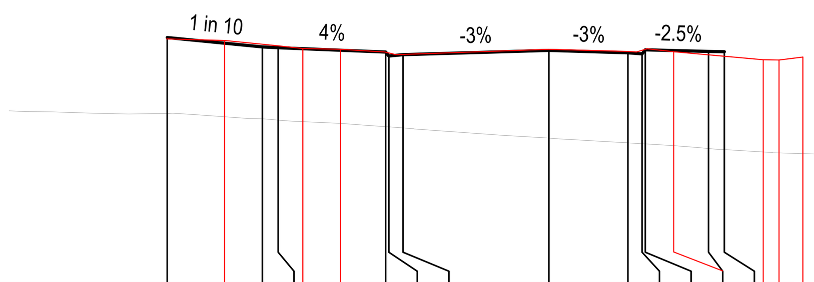
CH 280.699



DATUM R.L. 68

W.A.E.	75.72	75.60	75.53	75.49	75.43 75.41	75.34	75.17	75.26	75.40	75.30	75.23	75.40			75.32	75.31
DESIGN LEVEL	75.78		75.48	75.46		75.326	75.196	75.236	75.374	75.299	75.259	75.389	75.34	75.328		
EXISTING LEVEL	74.676		74.892	74.832		74.161	74.136	73.994	72.839	72.553	72.519	72.511	72.321	72.253		
OFFSET	-12.05	10.01	-9.05	-8.55	7.75 6.56	-5.15 5.34	-5.05 4.97	-4.6 4.53	0	2.5 2.49	2.95 2.92	3.05 3.30	5.05	5.55	7.15	7.90

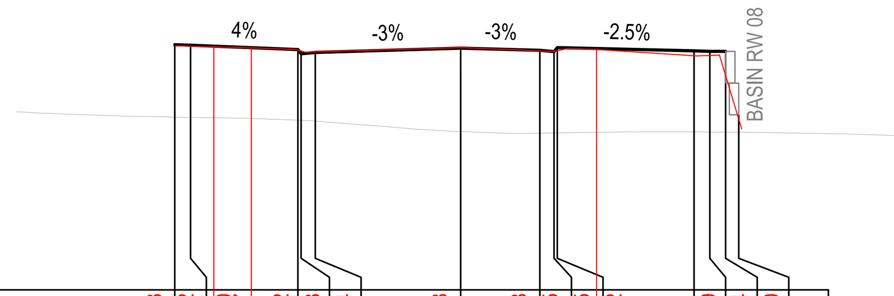
CH 277.032



DATUM R.L. 68

W.A.E.	75.75	75.70	75.58	75.53	75.45 75.42	75.34	75.25	75.26	75.42	75.35	75.34	75.43	75.34	75.09	75.08	75.17
DESIGN LEVEL	75.799		75.499	75.479		75.345	75.215	75.255	75.393	75.318	75.278	75.408	75.359	75.346		
EXISTING LEVEL	73.396		73.224	73.186		72.974	72.967	72.933	72.612	72.467	72.438	72.432	72.284	72.248		
OFFSET	-12.05	10.24	-9.05	-8.55	7.77 6.57	-5.15 5.17	-5.05 4.83	-4.6 4.58	0	2.5 2.52	2.95 2.78	3.05 3.11	5.05 3.95	5.55 6.78	7.28	8.03

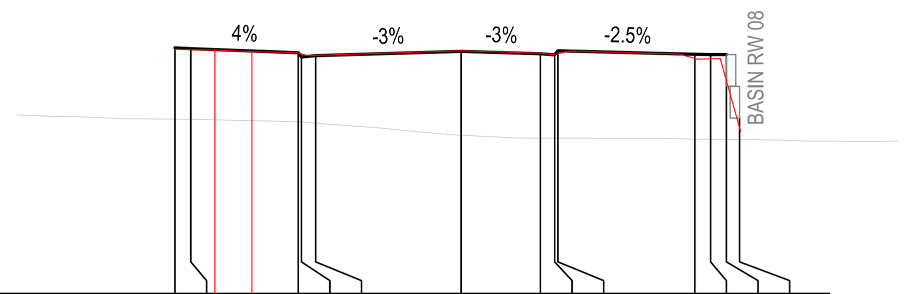
CH 270



DATUM R.L. 68

W.A.E.	75.73	75.72	75.70 75.67	75.62	75.53	75.54	75.68	75.58	75.55	75.65	75.62		75.39	75.44	73.10
DESIGN LEVEL	75.767	75.747		75.613	75.483	75.523	75.661	75.586	75.546	75.676		75.569	75.556	75.556	73.55
EXISTING LEVEL	73.474	73.467		73.374	73.37	73.347	73.012	72.965	72.973	72.975		73.005	73.001	72.998	72.997
OFFSET	-9.05	-8.55	7.81 6.62	-5.15 5.21	-5.05 4.92	-4.6 4.61	0	2.5 2.51	2.95 2.91	3.05 3.39	4.30	7.375	7.875 7.47	8.375 8.19	8.797 8.89

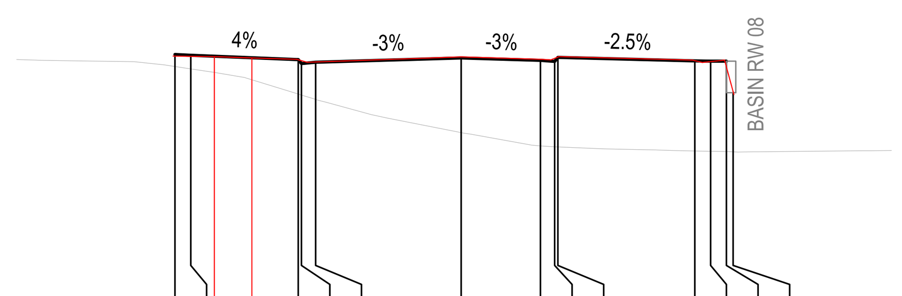
CH 319.849



DATUM R.L. 68

W.A.E.	75.72	75.70	75.69 75.65	75.61	75.51	75.52	75.67	75.59	75.55	75.66	75.56	75.37	75.42	73.12
DESIGN LEVEL	75.759	75.739		75.605	75.475	75.515	75.653	75.578	75.538	75.668	75.561	75.549	75.549	73.55
EXISTING LEVEL	73.509	73.504		73.42	73.417	73.382	73.001	72.907	72.906	72.906	72.876	72.872	72.869	72.864
OFFSET	-9.05	-8.55	7.78 6.62	-5.15 5.20	-5.05 4.85	-4.6 4.61	0	2.5 2.54	2.95 2.93	3.05 3.42	7.375 6.89	7.875 7.42	8.375 8.18	8.797 8.83

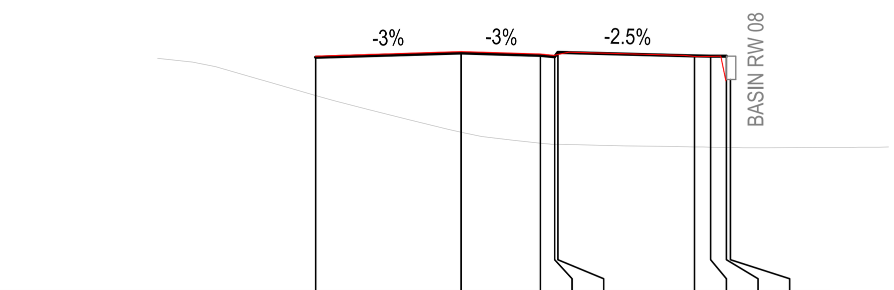
CH 315



DATUM R.L. 68

W.A.E.	75.63	75.62	75.60 75.56	75.52	75.43	75.44	75.60	75.52	75.50	75.61	75.50	75.46	75.50	74.40
DESIGN LEVEL	75.674	75.654		75.52	75.39	75.43	75.568	75.493	75.453	75.583	75.476	75.464	75.464	74.479
EXISTING LEVEL	75.3	75.224		74.424	74.393	74.253	73.202	72.785	72.756	72.752	72.625	72.613	72.6	72.594
OFFSET	-9.05	-8.55	7.80 6.61	-5.15 5.20	-5.05 4.87	-4.6 4.60	0	2.5 2.51	2.95 2.83	3.05 3.09	7.375 7.31	7.875 7.69	8.375 8.32	8.592 8.62

CH 303.1



DATUM R.L. 68

W.A.E.	75.43	75.57	75.50	75.46	75.56	75.46	75.41	75.43	74.65
DESIGN LEVEL	75.399	75.537	75.462	75.422	75.552	75.445	75.433	75.433	74.853
EXISTING LEVEL	74.193	73.035	72.688	72.651	72.649	72.568	72.56	72.551	72.548
OFFSET	-4.6	0	2.5 2.50	2.95 2.93	3.05 3.41	7.375 7.04	7.875 7.43	8.375 8.29	8.505 8.36

CH 300

LEGEND

DESIGN SURFACE	———
EXISTING SURFACE	———

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026
REGISTERED SURVEYOR ID: 8890
ORION GROUP

CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL
19/03/2026
SUBDIVISION WORKS CERTIFICATE
DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	AP	AP	AP	17/07/2025	ISSUED FOR MOD APPLICATION
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale: 0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 20.0
SCALE 1:200 (A1) SCALE 1:400 (A3)

For: mirvac

By: ORION

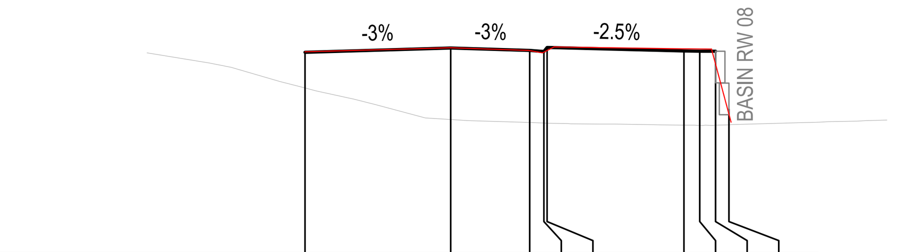
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project: 2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

Title: ROAD CROSS SECTIONS SHEET 02

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	311	B

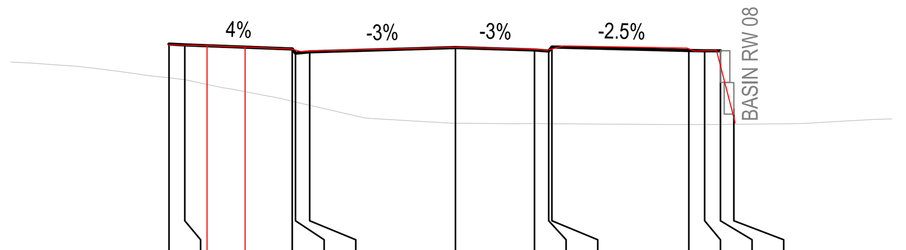
ROAD 2



DATUM R.L. 69

W.A.E.	75.37	75.49	75.41	75.33	75.52	75.46	75.46	75.45	73.14
DESIGN LEVEL	75.349	75.487	75.412	75.372	75.502	75.395	75.383	75.383	73.55
EXISTING LEVEL	74.223	73.227	73.129	73.114	73.11	73.046	73.041	73.045	73.059
OFFSET	-4.6	0	2.5 2.46	2.95 2.90	3.05 3.27	7.375 7.31	7.875 7.54	8.375 8.25	8.797 8.87

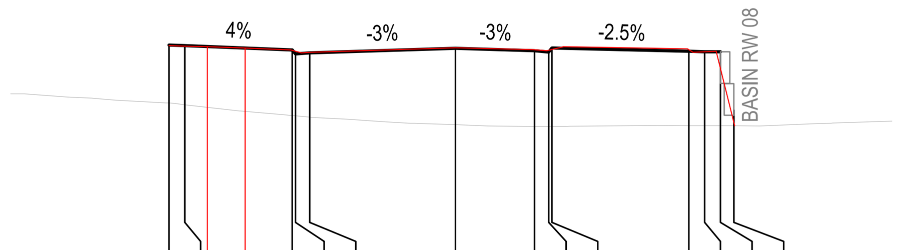
CH 351.884



DATUM R.L. 69

W.A.E.	75.58	75.56	75.55 75.51	75.45	75.37	75.38	75.50	75.44	75.40	75.54	75.47	75.38	75.41	73.10
DESIGN LEVEL	75.598	75.578		75.444	75.314	75.354	75.492	75.417	75.377	75.507	75.4	75.387	75.387	73.55
EXISTING LEVEL	74.531	74.472		73.786	73.763	73.66	73.097	73.084	73.08	73.08	73.052	73.052	73.052	73.057
OFFSET	-9.05	-8.55	7.84 6.64	-5.15 5.21	-5.05 4.88	-4.6 4.62	0	2.5 2.50	2.95 2.89	3.05 3.41	7.375 7.32	7.875 7.56	8.375 8.25	8.797 8.84

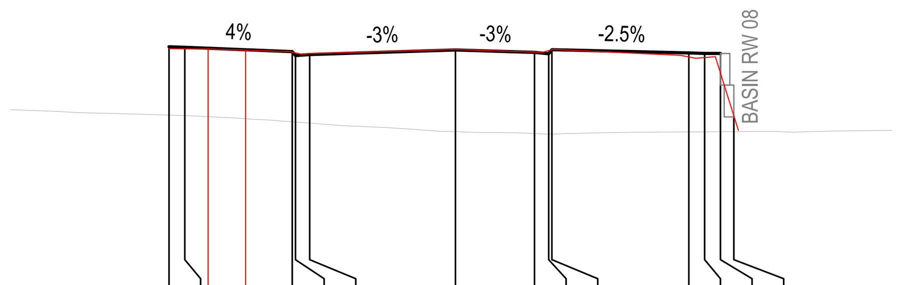
CH 348.259



DATUM R.L. 69

W.A.E.	75.59	75.57	75.56 75.51	75.45	75.36	75.37	75.52	75.46	75.43	75.56	75.49	75.38	75.41	73.06
DESIGN LEVEL	75.61	75.59		75.456	75.326	75.366	75.504	75.429	75.389	75.519	75.412	75.399	75.399	73.55
EXISTING LEVEL	73.775	73.724		73.381	73.371	73.328	73.09	73.038	73.033	73.031	73.062	73.059	73.056	73.057
OFFSET	-9.05	-8.55	7.84 6.64	-5.15 5.20	-5.05 4.86	-4.6 4.62	0	2.5 2.47	2.95 2.89	3.05 3.43	7.375 7.33	7.875 7.51	8.375 8.24	8.797 8.82

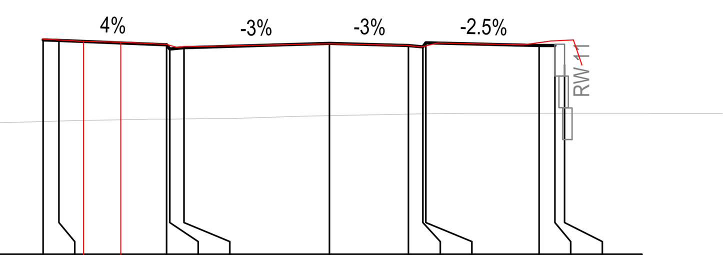
CH 345



DATUM R.L. 68

W.A.E.	75.67	75.66	75.66 75.62	75.57	75.49	75.50	75.64	75.56	75.55	75.64	75.45	75.36	75.41	73.08
DESIGN LEVEL	75.733	75.713		75.579	75.449	75.489	75.627	75.552	75.512	75.642	75.535	75.522	75.522	73.55
EXISTING LEVEL	73.571	73.555		73.359	73.352	73.317	73.043	72.985	72.968	72.971	73.036	73.038	73.043	73.047
OFFSET	-9.05	-8.55	7.81 6.63	-5.15 5.22	-5.05 4.87	-4.6 4.62	0	2.5 2.49	2.95 2.74	3.05 3.08	7.375 7.12	7.875 7.60	8.375 8.21	8.797 8.94

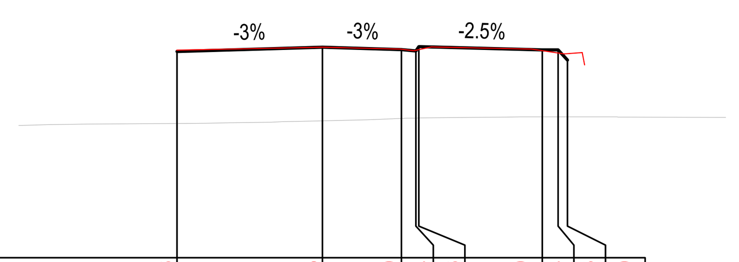
CH 330



DATUM R.L. 69

W.A.E.	75.81	75.77	75.73 75.71	75.63	75.55	75.56	75.65	75.61	75.56	75.68	75.62	75.74	75.77	74.98
DESIGN LEVEL	75.773	75.753		75.619	75.489	75.529	75.667	75.592	75.552	75.682	75.594	75.594	74.984	
EXISTING LEVEL	73.191	73.207		73.27	73.271	73.275	73.381	73.431	73.436	73.437	73.455	73.455	73.455	
OFFSET	-9.05	-8.55	7.77 6.59	-5.15 5.17	-5.05 4.84	-4.6 4.59	0	2.5 2.46	2.95 2.90	3.05 3.44	6.63 6.15	7.13 7.00	7.43 7.71	7.98

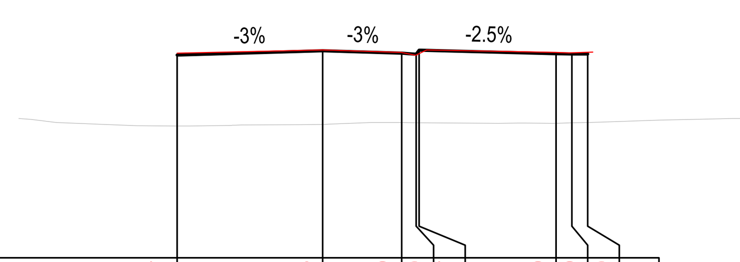
CH 376.195



DATUM R.L. 69

W.A.E.	75.56	75.65	75.59	75.54	75.66	75.59	75.44	75.48	75.09
DESIGN LEVEL	75.516	75.654	75.579	75.539	75.669	75.573	75.573	75.25	
EXISTING LEVEL	73.242	73.327	73.403	73.414	73.415	73.451	73.451	73.451	
OFFSET	-4.6 4.61	0	2.5 2.46	2.95 2.90	3.05 3.45	6.949 6.62	7.449 7.65	7.749 8.21	8.29

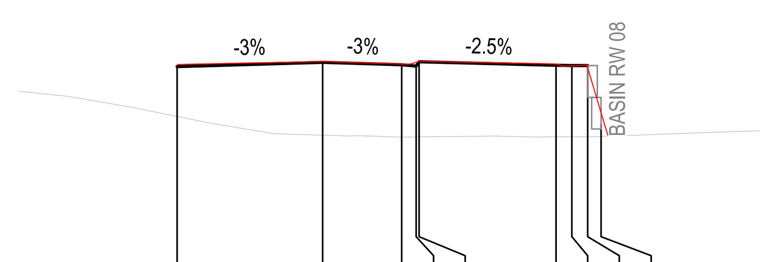
CH 375



DATUM R.L. 69

W.A.E.	75.47	75.56	75.49	75.40	75.57	75.49	75.49	75.50
DESIGN LEVEL	75.408	75.546	75.471	75.431	75.561	75.454	75.442	75.442
EXISTING LEVEL	73.166	73.218	73.273	73.271	73.27	73.253	73.267	73.281
OFFSET	-4.6	0	2.5 2.48	2.95 2.94	3.05 3.28	7.375 7.35	7.875 7.78	8.375 8.53

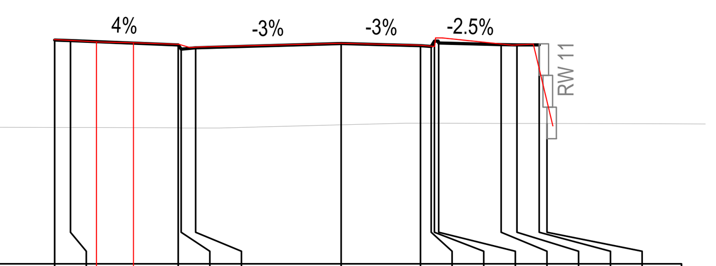
CH 364.908



DATUM R.L. 69

W.A.E.	75.44	75.53	75.46	75.45	75.54	75.45	75.38	75.42	73.20
DESIGN LEVEL	75.372	75.51	75.435	75.395	75.525	75.418	75.406	75.406	73.55
EXISTING LEVEL	73.804	73.205	73.153	73.154	73.155	73.154	73.157	73.159	73.165
OFFSET	-4.6	0	2.5 2.48	2.95 2.75	3.05 3.07	7.375 7.35	7.875 7.61	8.375 8.35	8.797 9.01

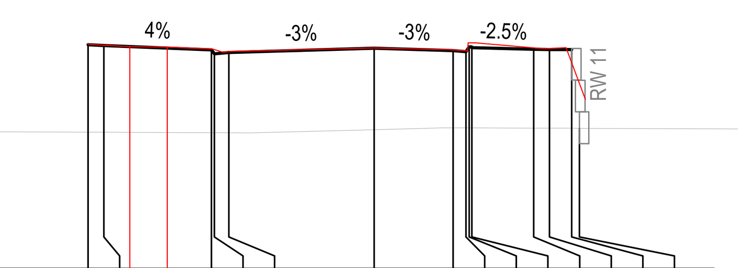
CH 360



DATUM R.L. 69

W.A.E.	76.11	76.08	76.03 76.01	75.95	75.85	75.87	75.99	75.93	75.89	76.15		75.93	75.96		73.37
DESIGN LEVEL	76.087	76.067		75.933	75.803	75.843	75.981	75.907	75.883	76.058	75.994	75.944	75.932	75.932	73.444
EXISTING LEVEL	73.319	73.317		73.306	73.306	73.305	73.402	73.454	73.453	73.453	73.453	73.448	73.446	73.444	73.444
OFFSET	-9.05	-8.55	7.73 6.56	-5.15 5.12	-5.05 4.77	-4.6 4.54	0	2.507 2.48	2.845 2.96	2.945 3.21	3.08	5.058 5.40	5.558 6.07	6.258	6.507 6.69

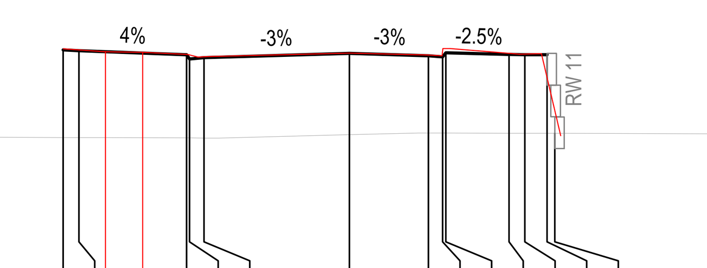
CH 405



DATUM R.L. 69

W.A.E.	76.10	76.07	76.03 76.01	75.95	75.85	75.87	75.98	75.92	75.89	76.14			75.96	75.99	73.36
DESIGN LEVEL	76.083	76.063		75.929	75.799	75.839	75.977	75.902	75.869	76.018	75.991	75.942	75.93	75.93	73.44
EXISTING LEVEL	73.316	73.314		73.3	73.3	73.298	73.397	73.451	73.45	73.449	73.449	73.444	73.442	73.44	73.44
OFFSET	-9.05	-8.55	7.72 6.55	-5.15 5.11	-5.05 4.78	-4.6 4.52	0	2.5 2.46	2.903 2.95	3.003 3.22	3.095	5.05	5.55 5.38	6.25 6.07	6.499 6.68

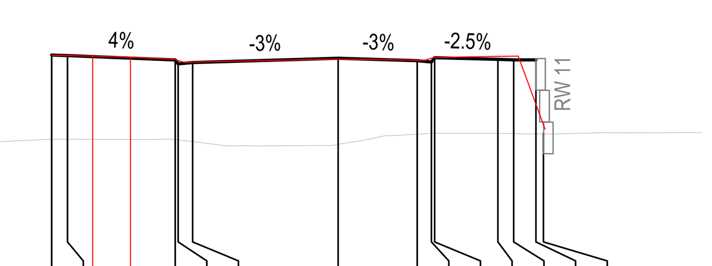
CH 404.629



DATUM R.L. 69

W.A.E.	76.11	76.08	76.02 76.00	75.94	75.85	75.87	75.98	75.92	75.89	76.12		75.94	75.97	73.36
DESIGN LEVEL	76.08	76.06		75.926	75.796	75.836	75.974	75.899	75.859	75.989	75.94	75.928	75.928	73.438
EXISTING LEVEL	73.308	73.306		73.292	73.292	73.29	73.394	73.449	73.447	73.447	73.442	73.44	73.438	73.438
OFFSET	-9.05	-8.55	7.71 6.53	-5.15 5.11	-5.05 4.78	-4.6 4.50	0	2.5 2.46	2.95 2.93	3.05 3.19	5.05	5.55 5.38	6.25 6.07	6.499 6.68

CH 404.36



DATUM R.L. 69

W.A.E.	75.91	75.90	75.88 75.84	75.78	75.68	75.69	75.79	75.75	75.74	75.84	75.87	75.89		73.57
DESIGN LEVEL	75.923	75.903		75.769	75.639	75.679	75.817	75.742	75.702	75.832	75.784	75.771	75.771	73.444
EXISTING LEVEL	73.254	73.255		73.249	73.236	73.181	73.089	73.415	73.443	73.444	73.441	73.433	73.424	73.424
OFFSET	-9.05	-8.55	7.76 6.56	-5.15 5.19	-5.05 4.84	-4.6 4.57	0	2.5 2.45	2.95 2.72	3.05 3.04	5.05 4.97	5.55 5.69	6.25	6.483 6.54

CH 390

LEGEND

DESIGN SURFACE	(solid line)
EXISTING SURFACE	(light line)

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026
REGISTERED SURVEYOR ID: 8890
ORION GROUP

CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL
19/03/2026
SUBDIVISION WORKS CERTIFICATE
DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

NOTE: LEVELS BETWEEN THE KERB AND RW11 ARE SUBJECT TO FUTURE LANDSCAPING WORKS. THIS SURVEY HAS ONLY CAPTURED KERB AND RETAINING WALL LEVELS.

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	AP	AP	AP	4/11/2025	ISSUED FOR MOD APPLICATION
B	MG	DH	MP	MP	6/01/2025	ISSUED FOR SUBDIVISION WORKS CERTIFICATE
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale: 0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 20.0
SCALE 1:200 (A1) SCALE 1:400 (A3)

For: mirvac

By: ORION

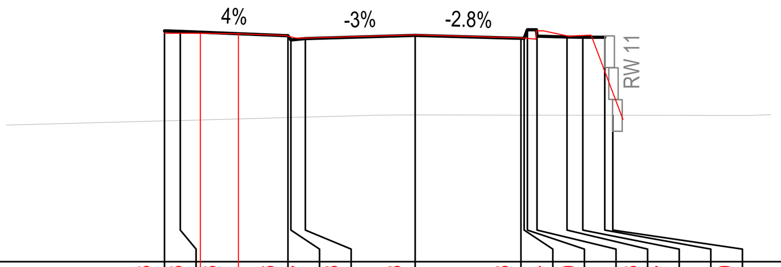
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project:
2 FRESHWATER DRIVE, COBBITTY
(TRANCHE 3, STAGE 3a)
ROAD & DRAINAGE DESIGN

Title:
ROAD CROSS SECTIONS
SHEET 03

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	312	C

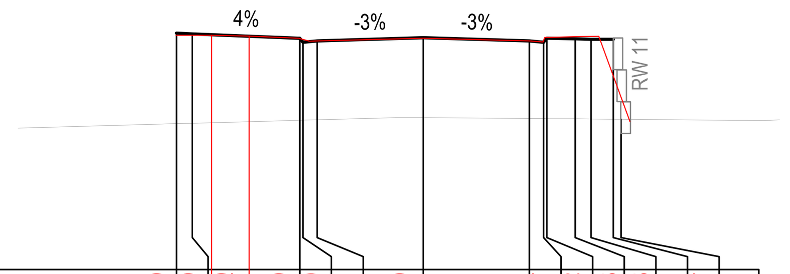
ROAD 2



DATUM R.L. 69

W.A.E.	76.23	76.23	76.23 76.21	76.16	76.07	76.08	76.18	76.08	76.04	76.30		76.13	76.17		73.50
DESIGN LEVEL	76.301	76.281		76.147	76.017	76.057	76.162	76.067	76.064	76.334	76.134	76.11	76.098	76.098	73.632
EXISTING LEVEL	73.455	73.468		73.561	73.564	73.576	73.639	73.636	73.636	73.635	73.635	73.634	73.633	73.632	73.632
OFFSET	-7.923	-7.423	6.79 5.59	-4.023 4.12	-3.923 3.78	-3.473 3.51	0	3.35 3.33	3.45 3.82	3.55 4.05	3.85	4.8 4.85	5.3 5.56	6	6.247 6.57

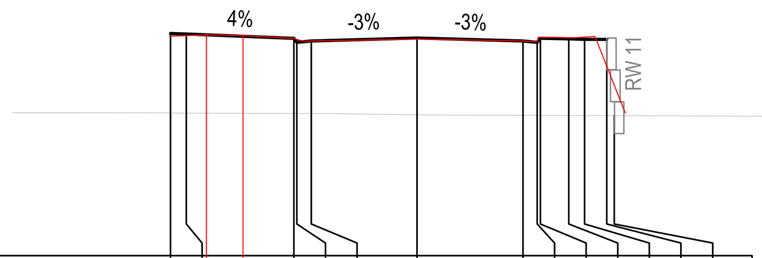
CH 421.566



DATUM R.L. 69

W.A.E.	76.39	76.39	76.39 76.37	76.29	76.20	76.21	76.29	76.21	76.17	76.32	76.35	76.35		73.67
DESIGN LEVEL	76.451	76.431		76.297	76.167	76.207	76.308	76.207	76.167	76.297	76.276	76.264	76.264	73.738
EXISTING LEVEL	73.601	73.615		73.708	73.711	73.723	73.786	73.764	73.76	73.759	73.751	73.746	73.74	73.738
OFFSET	-7.8	-7.3	6.69 5.50	-3.9 3.94	-3.8 3.60	-3.35 3.34	0	3.35 3.37	3.8 3.78	3.9 3.99	4.8 4.83	5.3 5.55	6	6.253 6.53

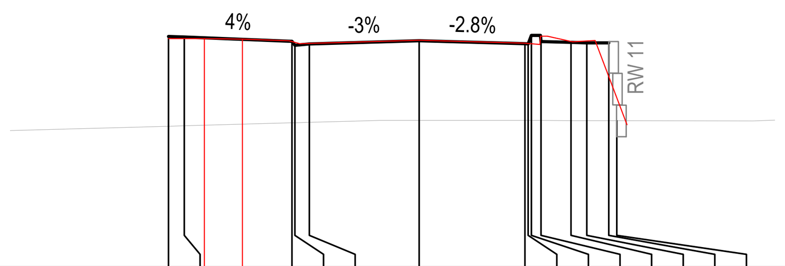
CH 435



DATUM R.L. 70

W.A.E.	76.93	76.95	76.97 76.95	76.86	76.77	76.78	76.84	76.77	76.75	76.90	76.88	76.92		74.51
DESIGN LEVEL	77.016	76.996		76.862	76.732	76.772	76.873	76.772	76.732	76.862	76.841	76.828	76.828	74.419
EXISTING LEVEL	74.503	74.502		74.492	74.492	74.491	74.446	74.428	74.427	74.426	74.423	74.422	74.419	74.419
OFFSET	-7.8	-7.3	6.66 5.50	-3.9 3.93	-3.8 3.59	-3.35 3.33	0	3.35 3.38	3.8 3.80	3.9 3.99	4.8 4.98	5.3 5.63	6	6.241 6.59

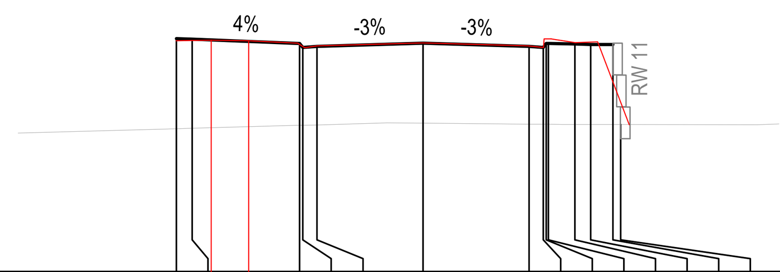
CH 486.814



DATUM R.L. 69

W.A.E.	76.23	76.23	76.23 76.21	76.16	76.07	76.08	76.18	76.08	76.04	76.30		76.13	76.17		73.50
DESIGN LEVEL	76.301	76.281		76.147	76.017	76.057	76.162	76.067	76.064	76.334	76.134	76.11	76.098	76.098	73.632
EXISTING LEVEL	73.455	73.468		73.561	73.564	73.576	73.639	73.636	73.636	73.635	73.635	73.634	73.633	73.632	73.632
OFFSET	-7.923	-7.423	6.79 5.59	-4.023 4.12	-3.923 3.78	-3.473 3.51	0	3.35 3.33	3.45 3.82	3.55 4.05	3.85	4.8 4.85	5.3 5.56	6	6.247 6.57

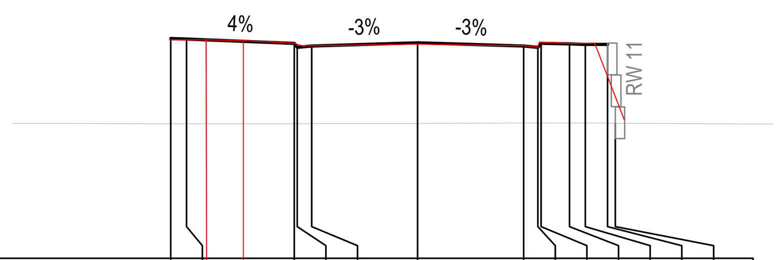
CH 421.565



DATUM R.L. 69

W.A.E.	76.28	76.29	76.30 76.27	76.20	76.06	76.11	76.21	76.11	76.07	76.34		76.22	76.25		73.63
DESIGN LEVEL	76.348	76.328		76.194	76.064	76.104	76.204	76.104	76.064	76.195	76.194	76.173	76.16	76.16	73.635
EXISTING LEVEL	73.501	73.515		73.609	73.612	73.624	73.675	73.647	73.643	73.642	73.642	73.637	73.637	73.636	73.635
OFFSET	-7.8	-7.3	6.70 5.51	-3.9 3.96	-3.8 3.74	-3.35 3.34	0	3.35 3.31	3.798 3.81	3.898 4.05	3.959	4.8 4.81	5.3 5.52	6	6.253 6.52

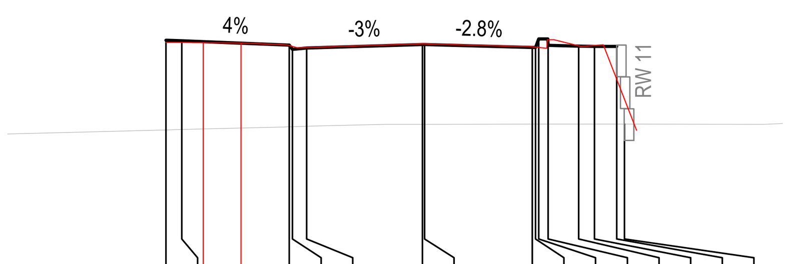
CH 425.491



DATUM R.L. 70

W.A.E.	76.89	76.90	76.90 76.87	76.79	76.70	76.71	76.76	76.71	76.67	76.81	76.77	76.80		74.38
DESIGN LEVEL	76.942	76.922		76.788	76.658	76.698	76.798	76.698	76.658	76.788	76.767	76.754	76.754	74.266
EXISTING LEVEL	74.245	74.244		74.249	74.25	74.251	74.258	74.27	74.272	74.273	74.273	74.271	74.267	74.266
OFFSET	-7.8	-7.3	6.68 5.50	-3.9 3.94	-3.8 3.62	-3.35 3.33	0	3.35 3.38	3.8 3.80	3.9 4.00	4.8 4.96	5.3 5.60	6	6.249 6.53

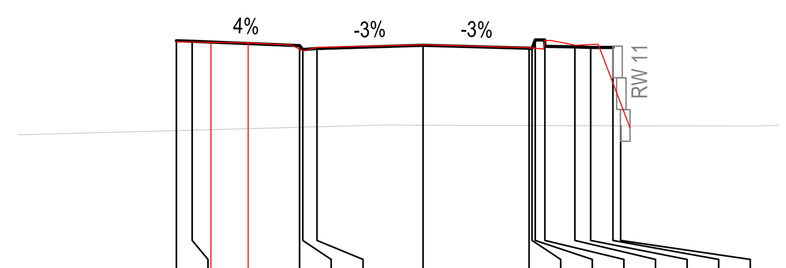
CH 480



DATUM R.L. 69

W.A.E.	76.21	76.20	76.20 76.19	76.13	76.04	76.05	76.16		76.07	76.02	76.29		76.08	76.13		73.43
DESIGN LEVEL	76.279	76.259		76.125	75.995	76.035	76.144	76.147	76.052	76.049	76.319	76.119	76.095	76.083	76.083	73.628
EXISTING LEVEL	73.443	73.456		73.544	73.546	73.558	73.622	73.622	73.626	73.626	73.626	73.626	73.627	73.627	73.628	73.628
OFFSET	-8.103	-7.603	6.92 5.73	-4.203 4.28	-4.103 3.95	-3.653 3.68	0	0.073	3.475 3.46	3.575 3.93	3.675 4.16	3.975	4.937 5.01	5.437 5.72	6.137	6.382 6.77

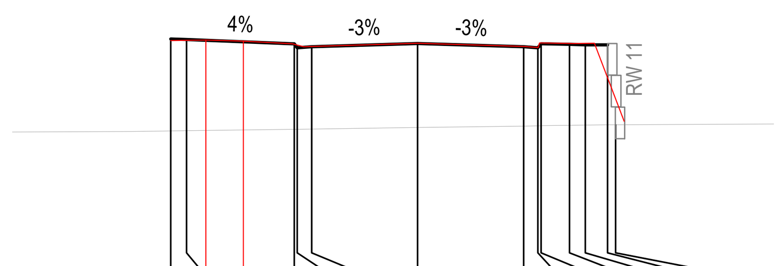
CH 420



DATUM R.L. 69

W.A.E.	76.29	76.28	76.27 76.25	76.19	76.00	76.11	76.20	76.10	76.06	76.33		76.18	76.21		73.56
DESIGN LEVEL	76.326	76.306		76.172	76.042	76.082	76.183	76.084	76.081	76.351	76.151	76.127	76.114	76.114	73.633
EXISTING LEVEL	73.478	73.492		73.585	73.588	73.6	73.65	73.638	73.637	73.637	73.637	73.635	73.635	73.634	73.633
OFFSET	-7.8	-7.3	6.70 5.53	-3.9 4.17	-3.8 3.79	-3.35 3.35	0	3.35 3.33	3.45 3.82	3.55 4.05	3.85	4.8 4.83	5.3 5.54	6	6.248 6.55

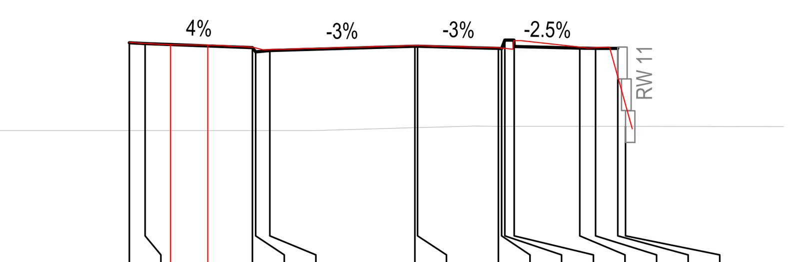
CH 423.5



DATUM R.L. 69

W.A.E.	76.72	76.73	76.73 76.70	76.62	76.53	76.54	76.64	76.53	76.50	76.64	76.63	76.64		74.17
DESIGN LEVEL	76.778	76.758		76.624	76.494	76.534	76.635	76.534	76.494	76.624	76.603	76.591	76.591	74.056
EXISTING LEVEL	73.862	73.869		73.916	73.917	73.923	73.97	74.02	74.027	74.028	74.042	74.049	74.055	74.056
OFFSET	-7.8	-7.3	6.69 5.51	-3.9 3.96	-3.8 3.60	-3.35 3.35	0	3.35 3.38	3.8 3.81	3.9 4.00	4.8 4.92	5.3 5.59	6	6.253 6.52

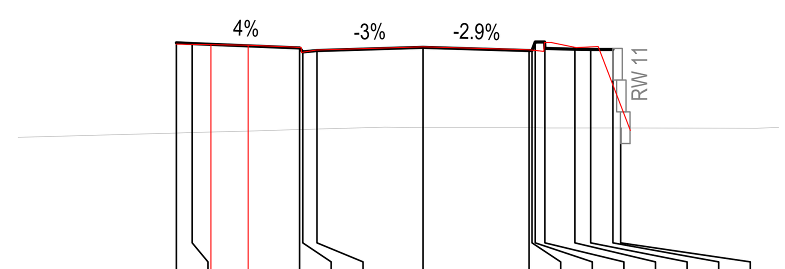
CH 465



DATUM R.L. 69

W.A.E.	76.11	76.08	76.04 76.03	75.97	75.87	75.89	76.01		75.94	75.90	76.17		75.94	75.96		73.38
DESIGN LEVEL	76.102	76.082		75.948	75.818	75.858	75.996	75.998	75.923	75.92	76.19	75.99	75.938	75.925	75.925	73.46
EXISTING LEVEL	73.33	73.329		73.33	73.33	73.33	73.417	73.419	73.467	73.466	73.466	73.466	73.462	73.461	73.46	73.46
OFFSET	-9.034	-8.534	7.73 6.55	-5.134 5.13	-5.034 4.81	-4.584 4.55	0	0.083	2.645 2.64	2.745 3.10	2.845 3.36	3.141	5.22 5.45	5.72 6.16	6.42	6.666 6.88

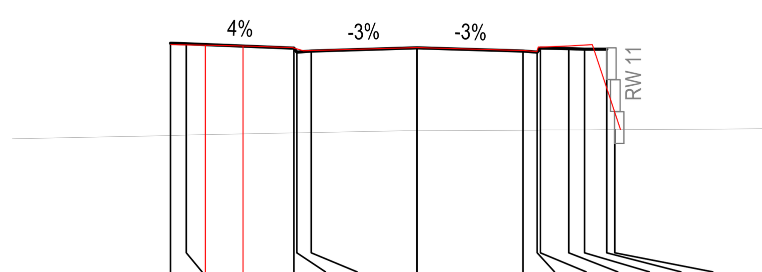
CH 406.36



DATUM R.L. 69

W.A.E.	76.28	76.27	76.26 76.24	76.18	76.18	76.09	76.19	76.10	76.05	76.32		76.17	76.20		73.55
DESIGN LEVEL	76.322	76.302		76.168	76.038	76.078	76.178	76.08	76.077	76.347	76.147	76.123	76.111	76.111	73.633
EXISTING LEVEL	73.474	73.487		73.58	73.583	73.595	73.644	73.637	73.637	73.637	73.636	73.635	73.634	73.633	73.633
OFFSET	-7.8	-7.3	6.70 5.53	-3.9 4.00	-3.8 3.86	-3.35 3.38	0	3.35 3.34	3.45 3.82	3.55 4.06	3.85	4.8 4.84	5.3 5.54	6	6.248 6.55

CH 423.087



DATUM R.L. 69

W.A.E.	76.56	76.56	76.55 76.52	76.47	76.37	76.38	76.47	76.38	76.34	76.49	76.52	76.56		73.89
DESIGN LEVEL	76.615	76.595		76.461	76.331	76.371	76.471	76.371	76.331	76.461	76.44	76.427	76.427	73.884
EXISTING LEVEL	73.704	73.714		73.783	73.785	73.794	73.856	73.871	73.873	73.874	73.878	73.88	73.883	73.884
OFFSET	-7.8	-7.3	6.69 5.50	-3.9 3.94	-3.8 3.59	-3.35 3.35	0	3.35 3.37	3.8 3.79	3.9 3.99	4.8 4.82	5.3 5.54	6	6.254 6.44

CH 450

LEGEND

DESIGN SURFACE
EXISTING SURFACE

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026
REGISTERED SURVEYOR ID: 8890
ORION GROUP

CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL
19/03/2026
SUBDIVISION WORKS CERTIFICATE
DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

NOTE: LEVELS BETWEEN THE KERB AND RW11 ARE SUBJECT TO FUTURE LANDSCAPING WORKS. THIS SURVEY HAS ONLY CAPTURED KERB AND RETAINING WALL LEVELS.

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	AP	AP	AP	4/11/2025	ISSUED FOR MOD APPLICATION
B	MG	DH	MP	MP	6/01/2025	ISSUED FOR SUBDIVISION WORKS CERTIFICATE
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale: 0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 20.0
SCALE 1:200 (A1) SCALE 1:400 (A3)

For: mirvac

By: ORION

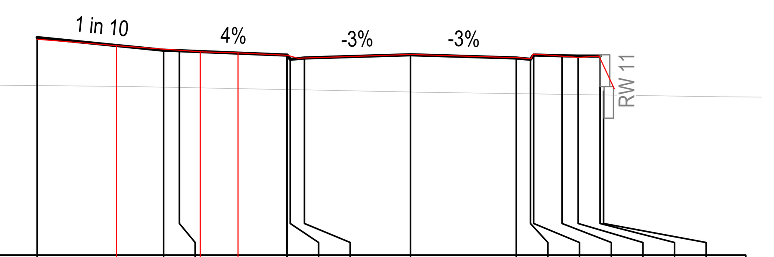
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project:
2 FRESHWATER DRIVE, COBBITTY
(TRANCHE 3, STAGE 3a)
ROAD & DRAINAGE DESIGN

Title:
ROAD CROSS SECTIONS
SHEET 04

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	313	C

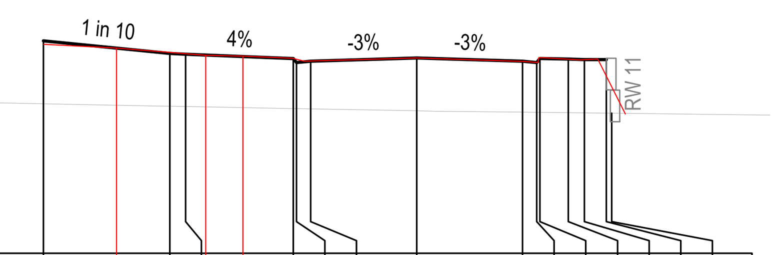
ROAD 2



DATUM R.L. 71

W.A.E.	77.82	77.62	77.51	77.47	77.42 77.39	77.32	77.22	77.23	77.34	77.24	77.20	77.35		77.25	77.29	76.26
DESIGN LEVEL	77.876		77.476	77.456		77.322	77.192	77.232	77.332	77.232	77.192	77.322	77.3	77.288	77.288	76.177
EXISTING LEVEL	76.358		76.305	76.296		76.231	76.229	76.22	76.156	76.104	76.097	76.095	76.081	76.074	76.063	76.061
OFFSET	-11.8	9.30	-7.8	-7.3	6.64 5.45	-3.9 3.88	-3.8 3.55	-3.35 3.31	0	3.35 3.41	3.8 3.82	3.9 4.02	4.8	5.3 5.31	6 5.96	6.112 6.45

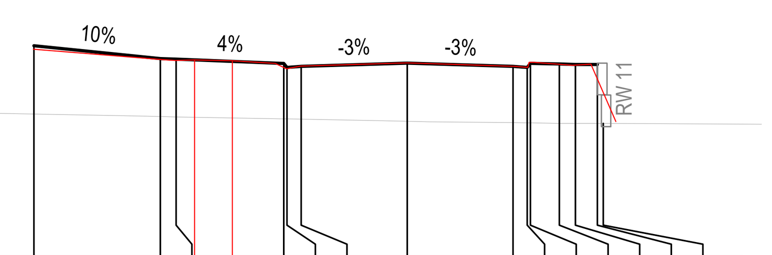
CH 525



DATUM R.L. 71

W.A.E.	77.60	77.49	77.35	77.31	77.25 77.23	77.16	77.07	77.08	77.17	77.06	77.03	77.18		77.11	77.14	75.40
DESIGN LEVEL	77.715		77.315	77.295		77.161	77.031	77.071	77.171	77.071	77.031	77.161	77.14	77.127	77.127	75.427
EXISTING LEVEL	75.729		75.65	75.64		75.577	75.575	75.566	75.504	75.46	75.455	75.454	75.443	75.437	75.429	75.427
OFFSET	-11.8	9.49	-7.8	-7.3	6.67 5.49	-3.9 3.93	-3.8 3.56	-3.35 3.30	0	3.35 3.40	3.8 3.83	3.9 4.02	4.8	5.3 5.13	6 5.73	6.17 6.60

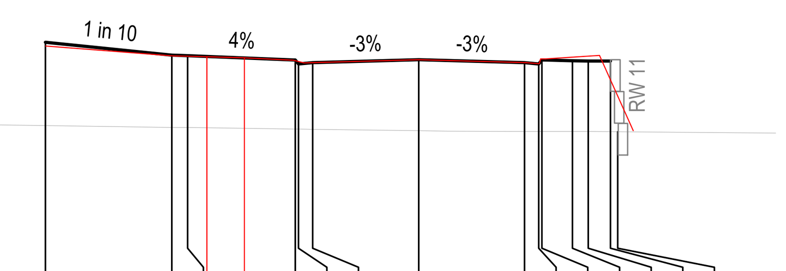
CH 514.109



DATUM R.L. 71

W.A.E.	77.56	77.24	77.20	77.22 77.20	77.11	76.94	77.03	77.12	77.02	76.99	77.14		77.05	77.08	75.27
DESIGN LEVEL	77.669	77.269	77.249		77.115	76.985	77.025	77.125	77.025	76.985	77.115	77.093	77.081	77.081	75.215
EXISTING LEVEL	75.511	75.435	75.425		75.36	75.358	75.349	75.285	75.24	75.234	75.233	75.222	75.22	75.216	75.215
OFFSET	-11.8	-7.8	-7.3	6.72 5.53	-3.9 4.17	-3.8 3.81	-3.35 3.36	0	3.35 3.40	3.8 3.81	3.9 4.01	4.817	5.317 5.22	6.017 5.81	6.203 6.60

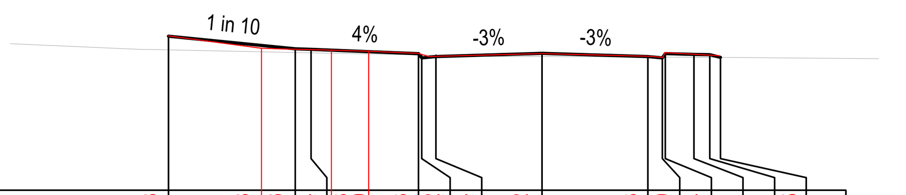
CH 510



DATUM R.L. 70

W.A.E.	77.38	77.07	77.06	77.05 77.01	76.94	76.85	76.86	76.95	76.86	76.82	76.97		77.04	77.09	74.71
DESIGN LEVEL	77.505	77.105	77.085		76.951	76.821	76.861	76.962	76.861	76.821	76.951	76.929	76.916	76.916	74.68
EXISTING LEVEL	74.876	74.821	74.814		74.767	74.765	74.759	74.713	74.693	74.692	74.692	74.689	74.688	74.682	74.68
OFFSET	-11.8	-7.8	-7.3	6.69 5.51	-3.9 3.96	-3.8 3.62	-3.35 3.36	0	3.35 3.40	3.8 3.82	3.9 4.01	4.867	5.367 5.07	6.067 5.72	6.291 6.78

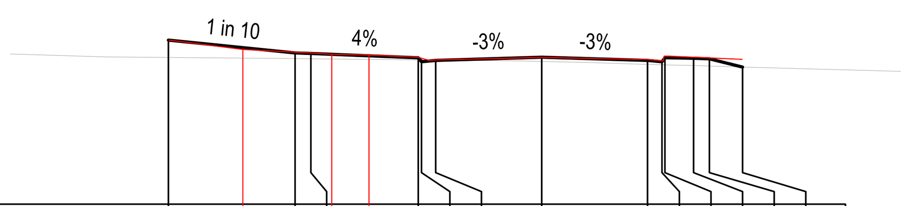
CH 495



DATUM R.L. 75

W.A.E.	79.88	79.48	79.46	79.44	79.43 79.39	79.33	79.22	79.24	79.32	79.23	79.20	79.34			79.25
DESIGN LEVEL	79.871		79.471	79.451		79.317	79.187	79.227	79.328	79.227	79.187	79.317	79.296	79.283	79.199
EXISTING LEVEL	79.435		79.353	79.343		79.279	79.277	79.269	79.225	79.21	79.207	79.207	79.203	79.201	79.199
OFFSET	-11.8	8.86	-7.8	-7.3	6.65 5.48	-3.9 3.91	-3.8 3.58	-3.35 3.32	0	3.35 3.41	3.8 3.83	3.9 4.03	4.8	5.3	5.638

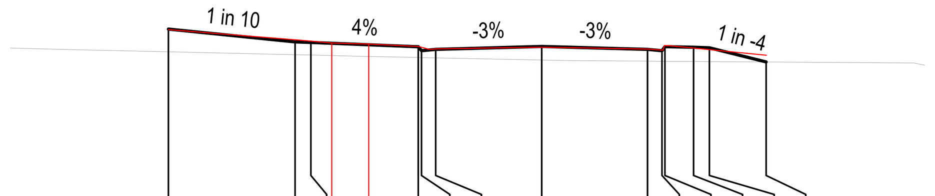
CH 585



DATUM R.L. 74

W.A.E.	79.20	78.91	78.82	78.79	78.75 78.72	78.65	78.56	78.57	78.65	78.58	78.54	78.69			78.59
DESIGN LEVEL	79.198		78.798	78.778		78.644	78.514	78.554	78.654	78.554	78.514	78.644	78.622	78.61	78.347
EXISTING LEVEL	78.651		78.614	78.609		78.577	78.576	78.572	78.522	78.434	78.421	78.418	78.392	78.378	78.347
OFFSET	-11.8	9.44	-7.8	-7.3	6.64 5.46	-3.9 3.91	-3.8 3.56	-3.35 3.31	0	3.35 3.42	3.8 3.84	3.9 4.03	4.8	5.3	6.35

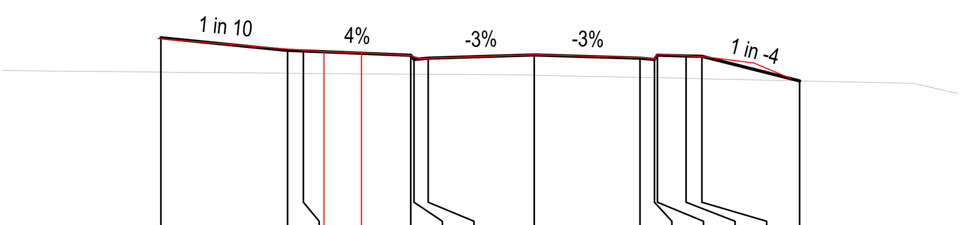
CH 570



DATUM R.L. 73

W.A.E.	78.62	78.30	78.26	78.20 78.16	78.09	78.00	78.01	78.07	78.01	77.97	78.12			77.81
DESIGN LEVEL	78.639	78.239	78.219		78.085	77.955	77.995	78.096	77.995	77.955	78.085	78.064	78.052	77.602
EXISTING LEVEL	77.922	77.831	77.819		77.743	77.741	77.731	77.659	77.626	77.623	77.622	77.616	77.613	77.602
OFFSET	-11.8	-7.8	-7.3	6.64 5.46	-3.9 3.89	-3.8 3.55	-3.35 3.31	0	3.35 3.42	3.8 3.84	3.9 4.03	4.8	5.3	7.1

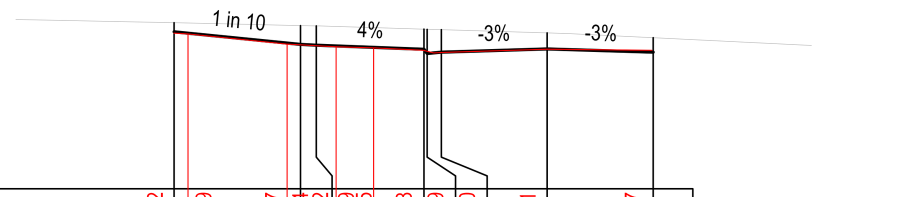
CH 555



DATUM R.L. 72

W.A.E.	78.16	77.84	77.80	77.75 77.72	77.63	77.53	77.54	77.66	77.56	77.53	77.68	77.58	77.40	76.90
DESIGN LEVEL	78.199	77.799	77.779		77.645	77.515	77.555	77.655	77.555	77.515	77.645	77.624	77.611	76.838
EXISTING LEVEL	77.111	77.079	77.075		77.047	77.046	77.043	77.016	76.945	76.935	76.933	76.914	76.904	76.838
OFFSET	-11.8	-7.8	-7.3	6.64 5.46	-3.9 3.91	-3.8 3.57	-3.35 3.30	0	3.35 3.40	3.8 3.83	3.9 4.02	4.8 5.47	5.3 6.94	8.393 8.13

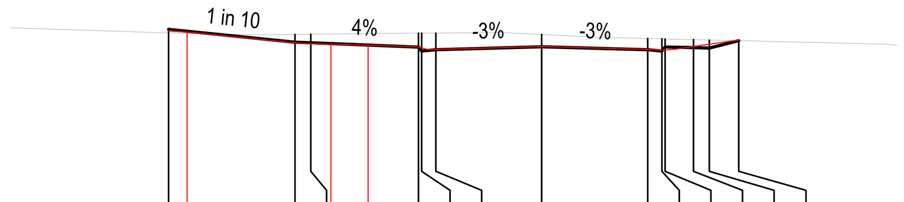
CH 540



DATUM R.L. 77

W.A.E.	81.92	81.89	81.57	81.54 81.52	81.49 81.45	81.38	81.29	81.30	81.41	81.37
DESIGN LEVEL	81.958		81.558	81.538		81.404	81.274	81.314	81.414	81.314
EXISTING LEVEL	82.245		82.156	82.144		82.04	82.037	82.023	81.921	81.771
OFFSET	-11.8	11.35	-7.8 8.22	-7.3	6.67 5.49	-3.9 3.92	-3.8 3.58	-3.35 3.30	0	3.35

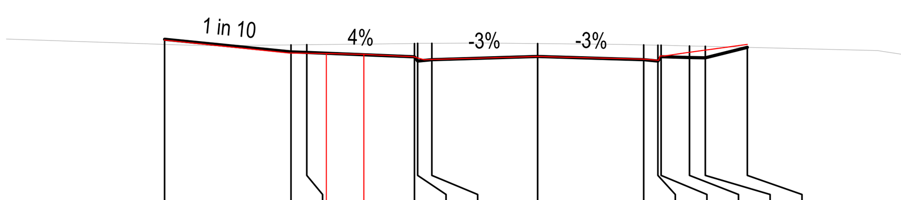
CH 630



DATUM R.L. 76

W.A.E.	81.43	81.40	81.08	81.03	81.02 80.99	80.93	80.84	80.85	80.94	80.85	80.83	80.86			81.16
DESIGN LEVEL	81.482		81.082	81.062		80.928	80.798	80.838	80.938	80.838	80.798	80.928	80.907	80.894	81.126
EXISTING LEVEL	81.374		81.328	81.333		81.363	81.364	81.368	81.322	81.197	81.186	81.183	81.161	81.149	81.126
OFFSET	-11.8	11.21	-7.8	-7.3	6.67 5.49	-3.9 3.92	-3.8 3.58	-3.35 3.30	0	3.35 3.35	3.8 3.78	3.9 4.23	4.8	5.3	6.228

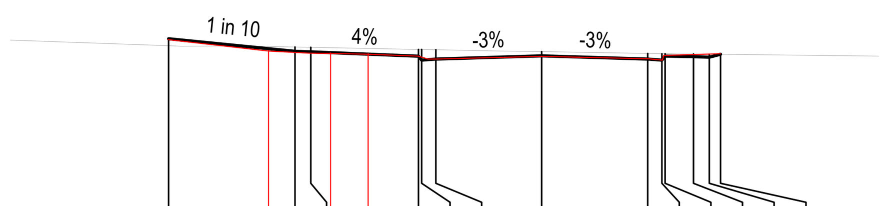
CH 618.999



DATUM R.L. 76

W.A.E.	81.27	80.86	80.85	80.84 80.81	80.74	80.64	80.66	80.75	80.66	80.63	80.77	80.87		81.13
DESIGN LEVEL	81.295	80.895	80.875		80.741	80.611	80.651	80.751	80.651	80.611	80.741	80.72	80.707	81.038
EXISTING LEVEL	81.136	81.119	81.124		81.162	81.163	81.168	81.158	81.119	81.108	81.105	81.083	81.071	81.038
OFFSET	-11.8	-7.8	-7.3	6.68 5.49	-3.9 3.93	-3.8 3.59	-3.35 3.32	0	3.35 3.37	3.8 3.83	3.9 4.02	4.8 4.70	5.3	6.624

CH 615



DATUM R.L. 75

W.A.E.	80.56	80.20	80.16	80.13	80.12 80.10	80.04	79.94	79.95	80.04	79.95	79.91	80.06			80.11
DESIGN LEVEL	80.583		80.183	80.163		80.029	79.899	79.939	80.039	79.939	79.899	80.029	80.008	79.995	80.084
EXISTING LEVEL	80.357		80.316	80.307		80.242	80.24	80.231	80.17	80.114	80.107	80.105	80.093	80.088	80.084
OFFSET	-11.8	8.64	-7.8	-7.3	6.67 5.49	-3.9 3.91	-3.8 3.59	-3.35 3.33	0	3.35 3.39	3.8 3.81	3.9 4.01	4.8	5.3	5.654

CH 600

LEGEND

DESIGN SURFACE
EXISTING SURFACE

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026
REGISTERED SURVEYOR ID: 8890
ORION GROUP

CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL
19/03/2026
SUBDIVISION WORKS CERTIFICATE
DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

NOTE:
1. LEVELS BETWEEN THE KERB AND RW11 ARE SUBJECT TO FUTURE LANDSCAPING WORKS. THIS SURVEY HAS ONLY CAPTURED KERB AND RETAINING WALL LEVELS.
2. CH540 - 630: LEVELS FROM THE RHS KERB TO THE EXTENT OF WORKS ARE SUBJECT TO MINOR VARIATION PENDING COMPLETION OF LANDSCAPING WORKS.

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	AP	AP	AP	4/11/2025	ISSUED FOR MOD APPLICATION
B	MG	DH	MP	MP	6/01/2025	ISSUED FOR SUBDIVISION WORKS CERTIFICATE
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale: 0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 20.0
SCALE 1:200 (A1) SCALE 1:400 (A3)

For: mirvac

By: ORION

ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project: 2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

Title: ROAD CROSS SECTIONS SHEET 05

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	314	C

ROAD 2

NOTE: CH660.109 - 675: LEVELS FROM THE RHS KERB TO THE EXTENT OF WORKS ARE SUBJECT TO MINOR VARIATION PENDING COMPLETION OF LANDSCAPING WORKS.

CAMDEN COUNCIL
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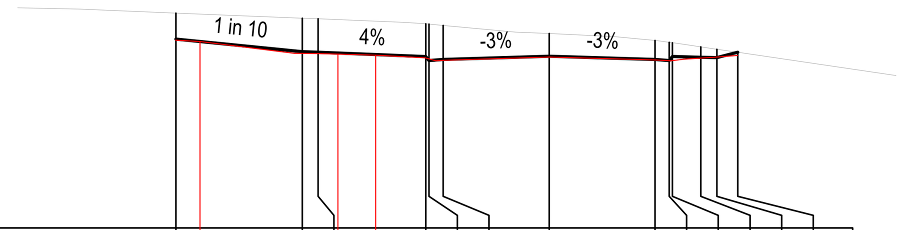
APPROVAL

19/03/2026

SUBDIVISION WORKS CERTIFICATE

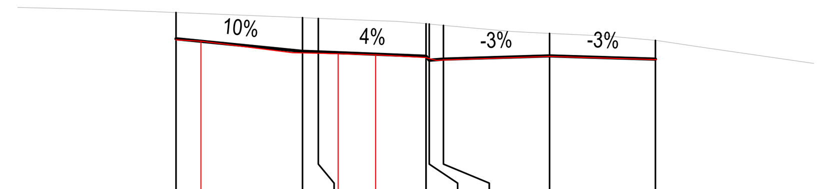
DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1



DATUM R.L. 77

W.A.E.	DESIGN LEVEL	EXISTING LEVEL	OFFSET
82.94	82.971	83.793	-11.8
82.89			11.04
82.49	82.571	83.631	-7.8 8.06
82.51	82.551	83.611	-7.3 7.31
82.49 82.46			6.68 5.48
82.37	82.417	83.451	-3.9 3.92
82.28	82.287	83.442	-3.8 3.58
82.30	82.327	83.401	-3.35 3.31
82.40	82.427	83.142	0
82.31	82.327	82.925	3.35 3.38
82.28	82.287	82.867	3.8 3.85
82.34	82.417	82.852	3.9 4.26
	82.396	82.72	4.8
82.40	82.383	82.647	5.3 5.20
82.45	82.549	82.549	5.966

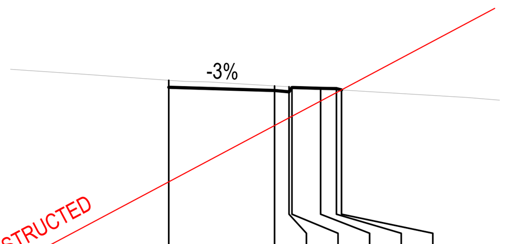
CH 660.109



DATUM R.L. 78

W.A.E.	DESIGN LEVEL	EXISTING LEVEL	OFFSET
82.93	82.968	83.793	-11.8
82.89			11.01
82.52	82.568	83.631	-7.8 8.12
82.51	82.548	83.611	-7.3 7.31
82.49 82.45			6.67 5.49
82.37	82.414	83.442	-3.9 3.92
82.28	82.284	83.433	-3.8 3.57
82.29	82.324	83.392	-3.35 3.31
82.40	82.424	83.138	0
82.30	82.324	82.91	3.35

CH 660

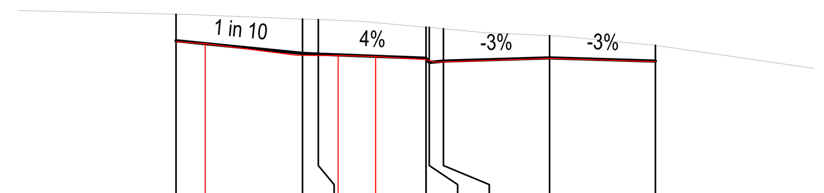


DATUM R.L. 78

NOT CONSTRUCTED

W.A.E.	DESIGN LEVEL	EXISTING LEVEL	OFFSET
	83.007	83.227	0
	82.906	83.05	3.35
	82.866	83.023	3.8
	82.996	83.017	3.9
	82.975	82.962	4.8
	82.963	82.932	5.3
	82.923	82.923	5.461

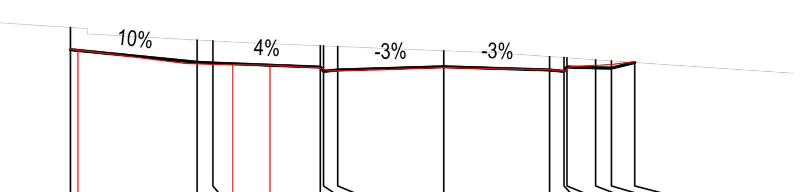
CH 687.106



DATUM R.L. 78

W.A.E.	DESIGN LEVEL	EXISTING LEVEL	OFFSET
82.91	82.948	83.79	-11.8
82.86			10.87
82.49	82.548	83.634	-7.8 8.00
82.48	82.528	83.614	-7.3
82.48 82.44			6.68 5.49
82.35	82.394	83.379	-3.9 3.93
82.26	82.264	83.37	-3.8 3.59
82.28	82.304	83.329	-3.35 3.30
82.39	82.405	83.113	0
82.28	82.304	82.808	3.35

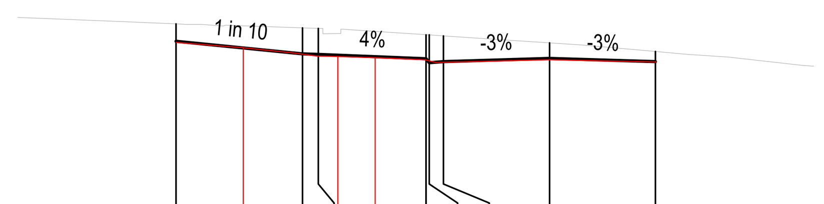
CH 659.271



DATUM R.L. 78

W.A.E.	DESIGN LEVEL	EXISTING LEVEL	OFFSET
83.33	83.315	84.021	-11.8
83.31			11.57
82.88	82.915	83.622	-7.8 8.21
82.85	82.895	83.594	-7.3 7.30
82.84 82.82			6.67 5.49
82.74	82.761	83.441	-3.9 3.93
82.65	82.631	83.437	-3.8 3.61
82.65	82.671	83.419	-3.35 3.31
82.74	82.772	83.281	0
82.68	82.671	83.098	3.35 3.38
82.65	82.631	83.066	3.8 3.83
82.78	82.761	83.06	3.9 4.02
	82.74	82.997	4.8
82.84	82.728	82.963	5.3 5.26
82.94	82.912	82.912	6.037

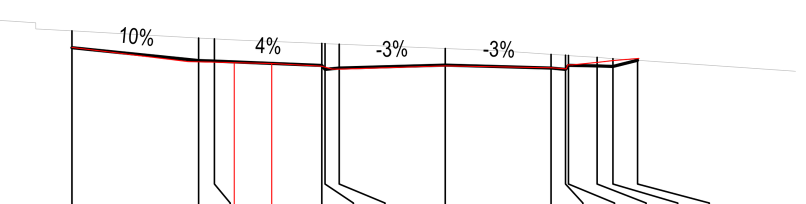
CH 675



DATUM R.L. 77

W.A.E.	DESIGN LEVEL	EXISTING LEVEL	OFFSET
82.47	82.515	83.059	-11.8
82.30			9.68
82.13	82.115	82.937	-7.8
82.04	82.095	82.92	-7.3
82.02 81.99			6.68 5.50
81.92	81.961	82.719	-3.9 3.93
81.83	81.831	82.712	-3.8 3.60
81.84	81.871	82.682	-3.35 3.30
81.92	81.972	82.46	0
81.85	81.871	82.187	3.35

CH 645

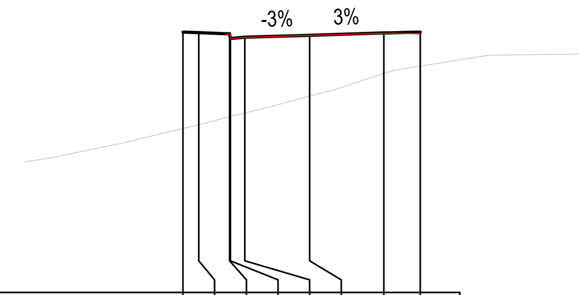


DATUM R.L. 78

W.A.E.	DESIGN LEVEL	EXISTING LEVEL	OFFSET
83.31	83.305	83.841	-11.8
82.87	82.905	83.616	-7.8 8.12
82.85	82.885	83.588	-7.3
82.83 82.80			6.67 5.49
82.72	82.751	83.442	-3.9 3.92
82.63	82.621	83.438	-3.8 3.57
82.63	82.661	83.42	-3.35 3.31
82.73	82.761	83.282	0
82.67	82.661	83.1	3.35 3.38
82.64	82.621	83.069	3.8 3.83
82.76	82.751	83.062	3.9 4.02
82.83	82.73	83	4.8
82.89	82.717	82.965	5.3 5.31
82.96	82.911	82.911	6.077

CH 674.47

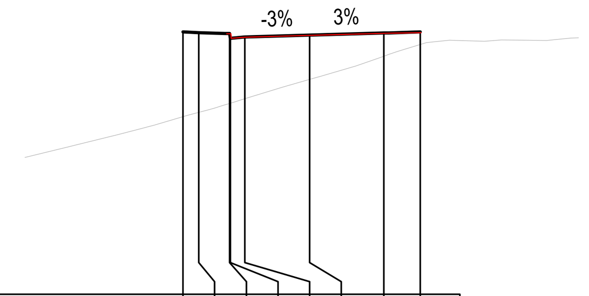
DRIVEWAY 1



DATUM R.L. 68

W.A.E.	DESIGN LEVEL	EXISTING LEVEL	OFFSET
	76.231	73.176	-4
	76.211	73.296	-3.5
76.16	76.178	73.553	-2.53 2.64
76.02	76.028	73.561	-2.5 2.48
76.06	76.068	73.671	-2.05 2.05
76.13	76.129	74.202	0
76.19	76.2	74.921	2.35 2.50
76.18	76.23	75.152	3.5

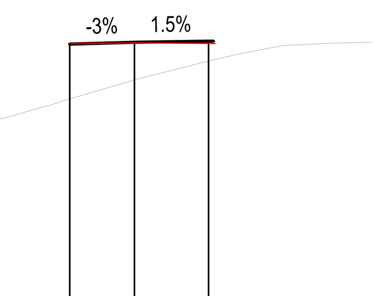
CH 15



DATUM R.L. 68

W.A.E.	DESIGN LEVEL	EXISTING LEVEL	OFFSET
	76.277	73.601	-4
	76.257	73.738	-3.5
76.21	76.224	74.021	-2.53 2.62
76.07	76.074	74.03	-2.5 2.48
76.11	76.114	74.168	-2.05 2.04
76.17	76.175	74.778	0
76.23	76.246	75.512	2.35 2.49
76.25	76.276	75.88	3.5

CH 11.551



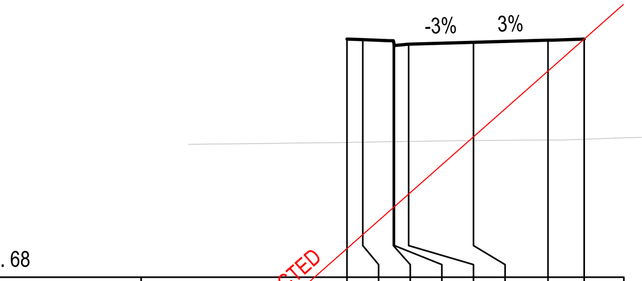
DATUM R.L. 68

W.A.E.	DESIGN LEVEL	EXISTING LEVEL	OFFSET
76.08	76.075	74.344	-2.05 2.00
76.11	76.136	74.944	0
76.09	76.17	75.541	2.35 2.56

CH 8.93

LEGEND	
DESIGN SURFACE	
EXISTING SURFACE	

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026
REGISTERED SURVEYOR ID: 8890
ORION GROUP

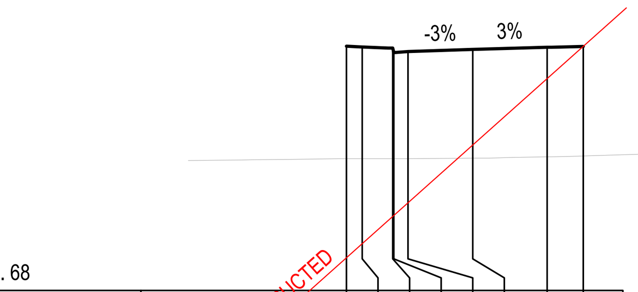


DATUM R.L. 68

NOT CONSTRUCTED

W.A.E.	DESIGN LEVEL	EXISTING LEVEL	OFFSET
	75.528	72.262	-4
	75.508	72.271	-3.5
	75.475	72.287	-2.53
	75.325	72.287	-2.5
	75.365	72.293	-2.05
	75.427	72.317	0
	75.497	72.333	2.35
	75.527	72.359	3.5

CH 56.219

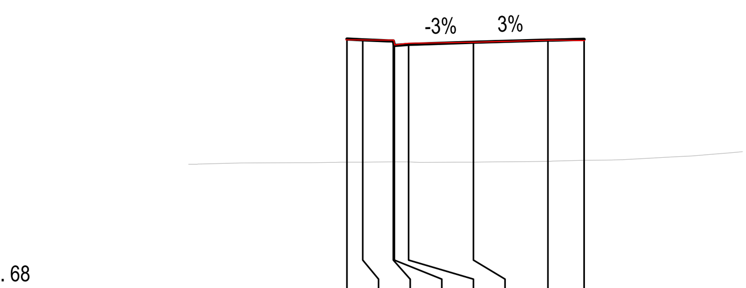


DATUM R.L. 68

NOT CONSTRUCTED

W.A.E.	DESIGN LEVEL	EXISTING LEVEL	OFFSET
	75.719	72.165	-4
	75.699	72.165	-3.5
	75.666	72.164	-2.53
	75.516	72.164	-2.5
	75.556	72.166	-2.05
	75.618	72.183	0
	75.688	72.226	2.35
	75.718	72.252	3.5

CH 45



DATUM R.L. 68

W.A.E.	DESIGN LEVEL	EXISTING LEVEL	OFFSET
75.95	75.975	72.089	-4
	75.955	72.092	-3.5
75.94	75.922	72.098	-2.53 2.65
75.79	75.772	72.098	-2.5 2.49
75.84	75.812	72.097	-2.05 2.08
75.87	75.874	72.094	0
75.94	75.944	72.121	2.35 2.51
75.92	75.974	72.149	3.5

CH 30

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	AP	AP	AP	17/07/2025	ISSUED FOR MOD APPLICATION
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale: 0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 20.0
SCALE 1:200 (A1) SCALE 1:400 (A3)

For: mirvac

By: ORION

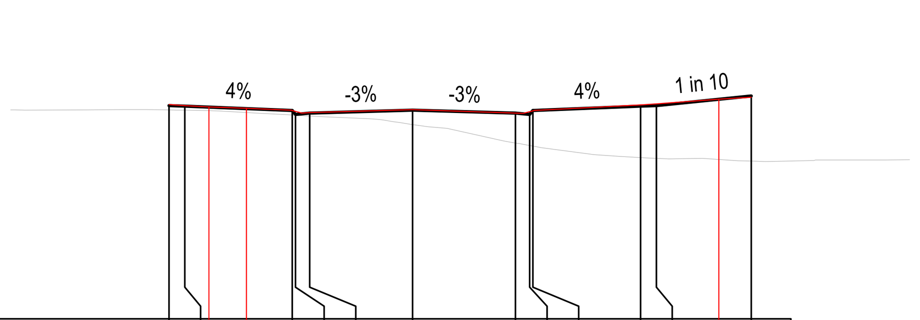
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project:
2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

Title:
ROAD CROSS SECTIONS SHEET 06

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	315	B

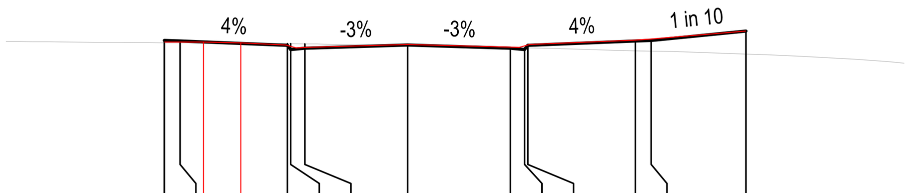
ROAD 5



DATUM R.L. 69

W.A.E.	75.77	75.75	75.70 75.66	75.60	75.50	75.52	75.62	75.51	75.49	75.59	75.77	75.81	75.95 76.01
DESIGN LEVEL	75.747	75.727		75.593	75.463	75.503	75.601	75.503	75.463	75.593	75.727	75.747	76.047
EXISTING LEVEL	75.605	75.596		75.445	75.438	75.414	75.145	74.561	74.482	74.464	74.099	74.073	73.99
OFFSET	-7.7	-7.2	6.44 5.25	-3.8 3.85	-3.7 3.50	-3.25 3.26	0	3.25 3.26	3.7 3.49	3.8 3.85	7.2	7.7	9.68 10.7

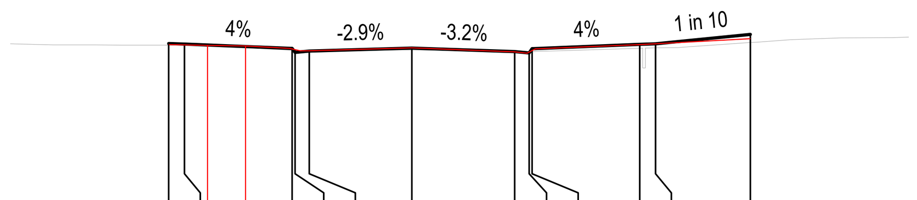
CH 180



DATUM R.L. 71

W.A.E.	75.87	75.87	75.87 75.84	75.77	75.69	75.70	75.80	75.71	75.70	75.79	75.92	75.97	76.21
DESIGN LEVEL	75.92	75.9		75.766	75.636	75.676	75.774	75.676	75.636	75.766	75.9	75.92	76.22
EXISTING LEVEL	75.846	75.844		75.817	75.816	75.814	75.746	75.69	75.683	75.681	75.594	75.585	75.491
OFFSET	-7.7	-7.2	6.46 5.28	-3.8 3.85	-3.7 3.52	-3.25 3.27	0	3.25 3.27	3.7 3.53	3.8 3.86	7.2	7.7	10.7

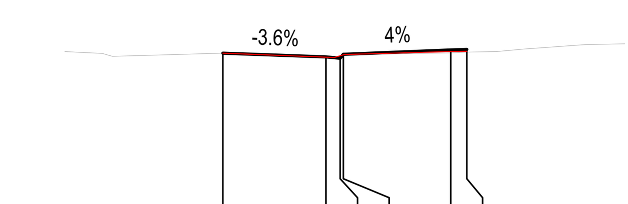
CH 165



DATUM R.L. 71

W.A.E.	76.07	76.06	76.04 76.03	75.95	75.87	75.87	75.96	75.84	75.80	75.93	76.06	76.09	76.26
DESIGN LEVEL	76.108	76.088		75.954	75.824	75.864	75.958	75.853	75.813	75.943	76.077	76.097	76.397
EXISTING LEVEL	76.053	76.048		75.893	75.887	75.858	75.903	75.834	75.848	75.851	75.956	75.97	76.137
OFFSET	-7.691	-7.191	6.47 5.26	-3.791 3.87	-3.691 3.53	-3.241 3.27	0	3.252 3.25	3.702 3.64	3.802 3.90	7.202	7.702	10.702

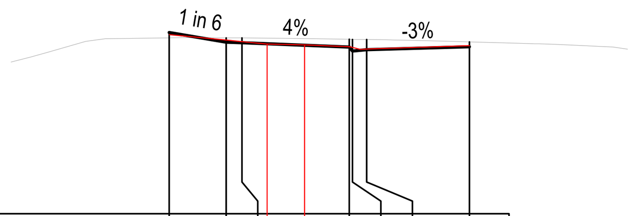
CH 150



DATUM R.L. 71

W.A.E.	75.97	75.85	75.84	75.93	76.03	76.03
DESIGN LEVEL	75.976	75.857	75.817	75.947	76.081	76.101
EXISTING LEVEL	75.976	75.852	75.872	75.896	75.989	76.012
OFFSET	0	3.257 3.26	3.707 3.53	3.807 3.84	7.207	7.707

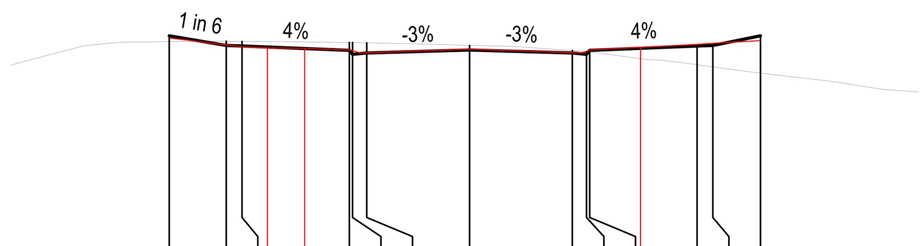
CH 148.786



DATUM R.L. 70

W.A.E.	75.65	75.48	75.43	75.35 75.33	75.27	75.18	75.20	75.30
DESIGN LEVEL	75.714	75.414	75.394		75.26	75.13	75.17	75.267
EXISTING LEVEL	75.545	75.548	75.545		75.499	75.498	75.491	75.418
OFFSET	-9.501	-7.7	-7.2	6.40 5.22	-3.8 3.78	-3.7 3.45	-3.25 3.16	0

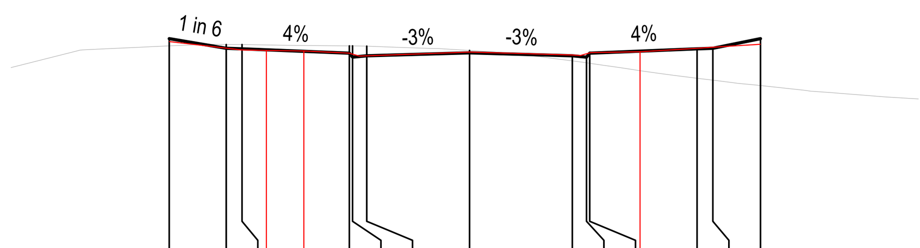
CH 208.83



DATUM R.L. 69

W.A.E.	75.66	75.44	75.38	75.35 75.33	75.28	75.19	75.20	75.31	75.19	75.19	75.29	75.36 75.46	75.49	75.57
DESIGN LEVEL	75.729	75.429	75.409		75.275	75.145	75.185	75.282	75.185	75.145	75.275	75.409	75.429	75.729
EXISTING LEVEL	75.543	75.557	75.553		75.517	75.515	75.509	75.43	75.267	75.237	75.228	74.821	74.753	74.557
OFFSET	-9.501	-7.7	-7.2	6.39 5.21	-3.8 3.76	-3.7 3.45	-3.25 3.18	0	3.25 3.27	3.7 3.54	3.8 3.87	5.41 7.2	7.7	9.2

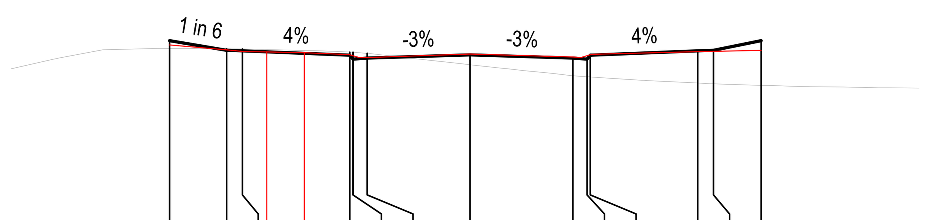
CH 207.518



DATUM R.L. 69

W.A.E.	75.68	75.48	75.42	75.40 75.38	75.31	75.22	75.23	75.34	75.25	75.24	75.33	75.35 75.47	75.50	75.60
DESIGN LEVEL	75.772	75.472	75.452		75.318	75.188	75.228	75.326	75.228	75.188	75.318	75.452	75.472	75.772
EXISTING LEVEL	75.542	75.589	75.584		75.548	75.547	75.534	75.4	75.069	75.01	74.996	74.524	74.462	74.289
OFFSET	-9.501	-7.7	-7.2	6.43 5.24	-3.8 3.82	-3.7 3.49	-3.25 3.22	0	3.25 3.25	3.7 3.51	3.8 3.83	5.39 7.2	7.7	9.2

CH 203.765



DATUM R.L. 70

W.A.E.	75.74	75.57	75.53	75.52 75.49	75.43	75.33	75.34	75.44	75.35	75.34	75.44	75.52	75.53	75.57
DESIGN LEVEL	75.874	75.574	75.554		75.42	75.29	75.33	75.427	75.33	75.29	75.42	75.554	75.574	75.874
EXISTING LEVEL	75.632	75.623	75.613		75.515	75.509	75.475	75.117	74.766	74.737	74.73	74.537	74.513	74.466
OFFSET	-9.501	-7.7	-7.2	6.43 5.24	-3.8 3.82	-3.7 3.51	-3.25 3.24	0	3.25 3.26	3.7 3.51	3.8 3.84	7.2	7.7	9.2

CH 195

LEGEND

DESIGN SURFACE
EXISTING SURFACE

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026
REGISTERED SURVEYOR ID: 8890
ORION GROUP

CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL

19/03/2026

SUBDIVISION WORKS CERTIFICATE

DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	AP	AP	AP	17/07/2025	ISSUED FOR MOD APPLICATION
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale:
0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 20.0
SCALE 1:200 (A1) SCALE 1:400 (A3)

For: mirvac

By: ORION

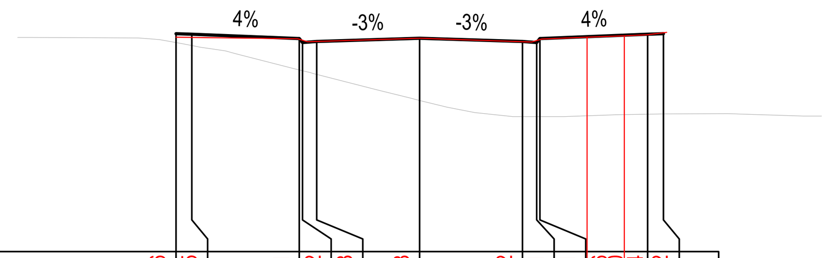
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project:
2 FRESHWATER DRIVE,
COBBITTY
(TRANCHE 3, STAGE 3a)
ROAD & DRAINAGE DESIGN

Title:
ROAD CROSS SECTIONS
SHEET 07

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	316	B

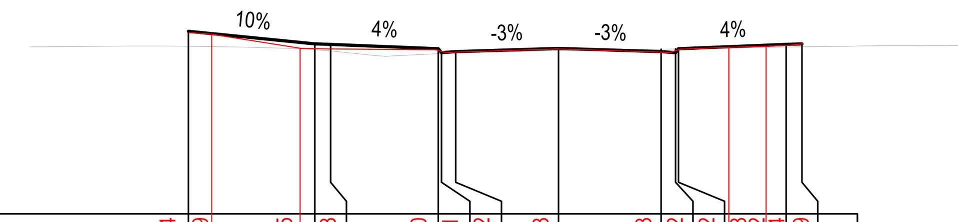
ROAD 7



DATUM R.L. 69

W.A.E.	75.76	75.75	75.71	75.62	75.63	75.73	75.62	75.61	75.71	75.76 75.80	75.84	75.92
DESIGN LEVEL	75.875	75.855	75.721	75.591	75.631	75.728	75.631	75.591	75.721		75.855	75.875
EXISTING LEVEL	75.591	75.498	74.73	74.704	74.588	73.768	73.259	73.259	73.259		73.333	73.341
OFFSET	-7.7	-7.2	-3.8 3.86	-3.7 3.54	-3.25 3.25	0	3.25 3.25	3.7 3.53	3.8 3.86	5.29 6.46	7.2	7.7

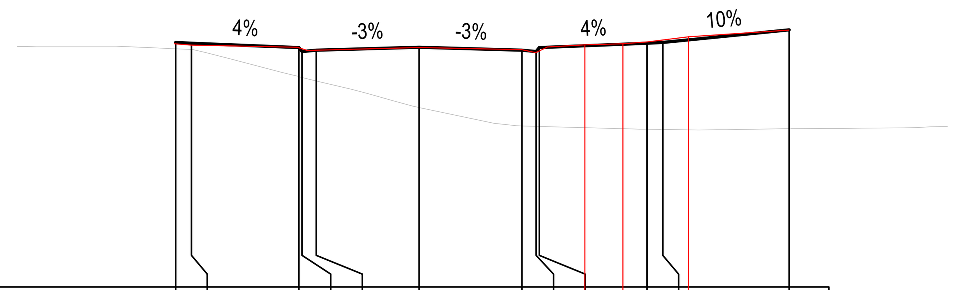
CH 40.206



DATUM R.L. 71

W.A.E.	76.74	76.69	76.25	76.23	76.20	76.11	76.12	76.23	76.13	76.12	76.22	76.28 76.32	76.34	76.39
DESIGN LEVEL	76.79		76.39	76.37	76.236	76.106	76.146	76.243	76.146	76.106	76.236		76.37	76.39
EXISTING LEVEL	76.311		76.2	76.162	76.08	76.085	76.1	76.177	76.217	76.227	76.229		76.29	76.296
OFFSET	-11.7	10.96	-7.7 8.14	-7.2	-3.8 3.86	-3.7 3.55	-3.25 3.26	0	3.25 3.25	3.7 3.54	3.8 3.86	5.39 6.57	7.2	7.7

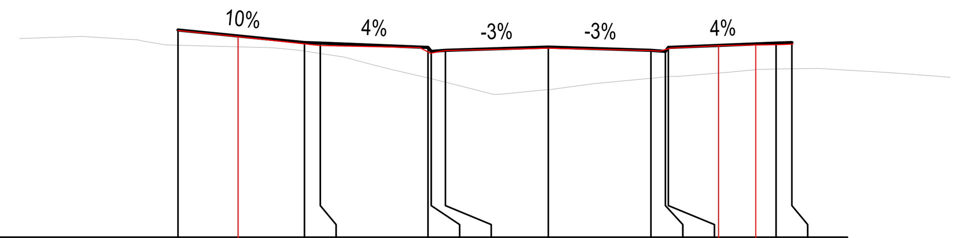
CH 75



DATUM R.L. 68

W.A.E.	75.68	75.64	75.57	75.47	75.48	75.57	75.50	75.40	75.58	75.65 75.69	75.74	75.80	75.90	76.11
DESIGN LEVEL	75.724	75.704	75.57	75.44	75.48	75.577	75.48	75.44	75.57		75.704	75.724		76.124
EXISTING LEVEL	75.527	75.503	74.644	74.62	74.511	73.666	73.087	73.076	73.073		72.982	72.974		73.001
OFFSET	-7.7	-7.2	-3.8 3.86	-3.7 3.53	-3.25 3.26	0	3.25 3.24	3.7 3.69	3.8 4.06	5.24 6.44	7.2	7.7	8.51	11.7

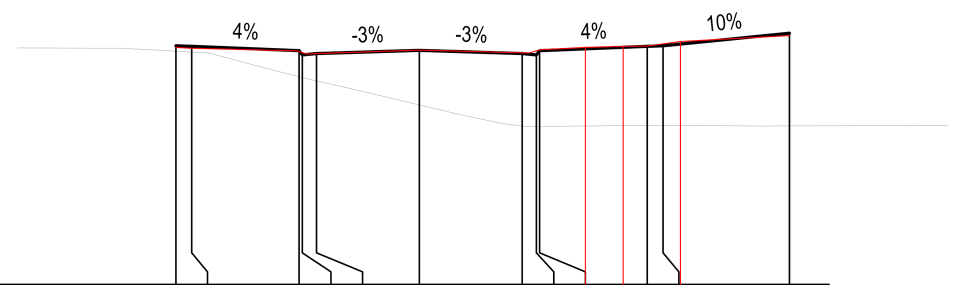
CH 30



DATUM R.L. 70

W.A.E.	76.54	76.35	76.13	76.07	76.00	75.82	75.91	75.99	75.91	75.89	75.99	76.06 76.09	76.10	76.11
DESIGN LEVEL	76.568		76.168	76.148	76.014	75.884	75.924	76.021	75.924	75.884	76.014		76.148	76.168
EXISTING LEVEL	76.08		75.893	75.818	75.047	75.024	74.911	74.675	75.035	75.081	75.09		75.325	75.334
OFFSET	-11.7	9.80	-7.7	-7.2	-3.8 4.06	-3.7 3.72	-3.25 3.26	0	3.25 3.24	3.7 3.52	3.8 3.86	5.38 6.56	7.2	7.7

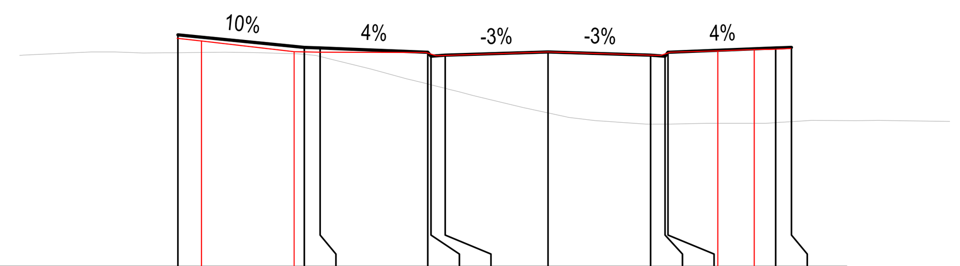
CH 60



DATUM R.L. 68

W.A.E.	75.49	75.46	75.38	75.28	75.29	75.40	75.32	75.31	75.41	75.49 75.52	75.53	75.60	75.68	75.86
DESIGN LEVEL	75.542	75.522	75.388	75.258	75.298	75.395	75.298	75.258	75.388		75.522	75.542		75.942
EXISTING LEVEL	75.369	75.342	74.565	74.539	74.435	73.672	73.007	72.995	72.995		73.02	73.023		73.009
OFFSET	-7.7	-7.2	-3.8 3.86	-3.7 3.55	-3.25 3.27	0	3.25 3.20	3.7 3.46	3.8 3.80	5.24 6.44	7.2	7.7	8.25	11.7

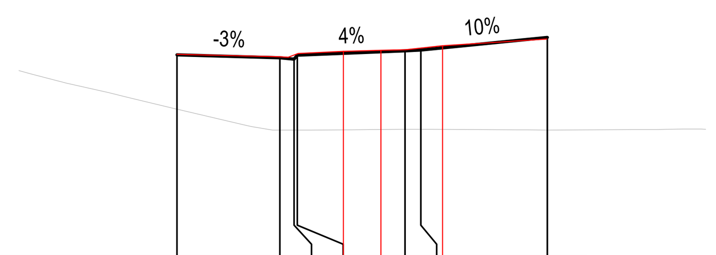
CH 17.673



DATUM R.L. 69

W.A.E.	76.23	76.15	75.81	75.79	75.78	75.68	75.69	75.80	75.70	75.69	75.79	75.83 75.87	75.88	75.90
DESIGN LEVEL	76.346		75.946	75.926	75.792	75.662	75.702	75.799	75.702	75.662	75.792		75.926	75.946
EXISTING LEVEL	75.779		75.726	75.657	74.786	74.761	74.648	73.871	73.518	73.514	73.515		73.564	73.594
OFFSET	-11.7	10.95	-7.7 8.02	-7.2	-3.8 3.86	-3.7 3.53	-3.25 3.25	0	3.25 3.27	3.7 3.57	3.8 3.86	5.37 6.53	7.2	7.7

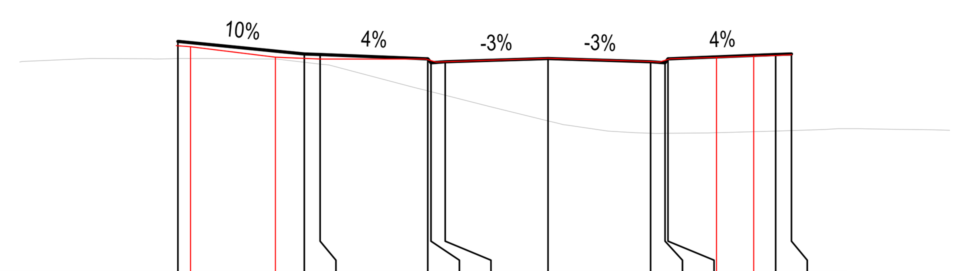
CH 45



DATUM R.L. 69

W.A.E.	75.40	75.32	75.30	75.42	75.49 75.52	75.54	75.59	75.67	75.88
DESIGN LEVEL	75.387	75.29	75.25	75.38		75.514	75.534		75.934
EXISTING LEVEL	73.664	73.004	73.004	73.003		73.027	73.03		73.009
OFFSET	0	3.25 3.20	3.7 3.51	3.8 3.83	5.26 6.44	7.2	7.7	8.39	11.7

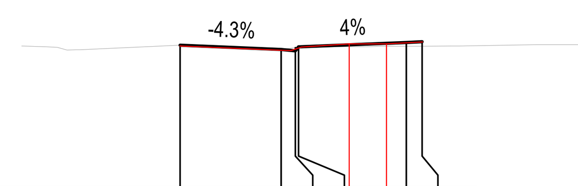
CH 17.128



DATUM R.L. 69

W.A.E.	76.17	76.14	75.81	75.77	75.75	75.75	75.65	75.67	75.77	75.67	75.66	75.76	75.80 75.84	75.86	75.89
DESIGN LEVEL	76.319			75.919	75.899	75.765	75.635	75.675	75.773	75.675	75.635	75.765		75.899	75.919
EXISTING LEVEL	75.77			75.655	75.599	74.751	74.726	74.613	73.804	73.413	73.409	73.41		73.478	73.494
OFFSET	-11.7	11.30	8.62	-7.7	-7.2	-3.8 3.87	-3.7 3.53	-3.25 3.26	0	3.25 3.26	3.7 3.53	3.8 3.86	5.33 6.51	7.2	7.7

CH 43.21



DATUM R.L. 72

W.A.E.	76.47	76.33	76.32	76.43	76.53 76.54	76.57	76.59
DESIGN LEVEL	76.496	76.36	76.32	76.45		76.584	76.604
EXISTING LEVEL	76.496	76.36	76.423	76.437		76.464	76.466
OFFSET	0	3.196 3.22	3.646 3.51	3.746 3.84	5.35 6.52	7.146	7.646

CH 87.759

LEGEND

DESIGN SURFACE
EXISTING SURFACE

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026
REGISTERED SURVEYOR ID: 8890
ORION GROUP

CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL
19/03/2026
SUBDIVISION WORKS CERTIFICATE
DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	AP	AP	AP	17/07/2025	ISSUED FOR MOD APPLICATION
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale: 0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 20.0
SCALE 1:200 (A1) SCALE 1:400 (A3)

For: mirvac

By: ORION

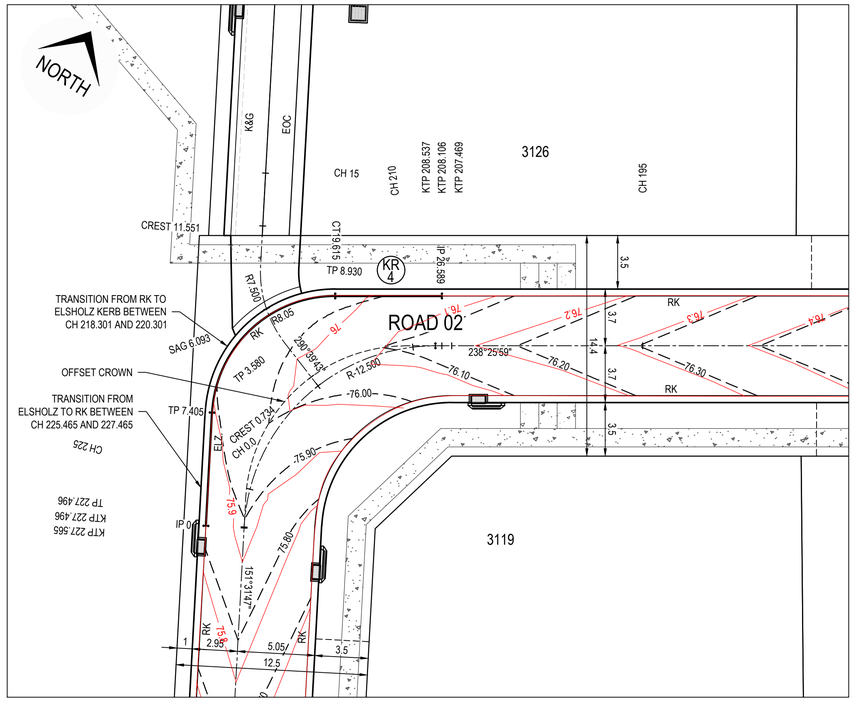
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

SUSTAINABLE CERTIFICATION ISO 9001 ISO 45001 ISO 14001
JAS-ANZ WWW.JAS-ANZ.ORG/REGISTER

Project: 2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

Title: ROAD CROSS SECTIONS SHEET 08

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	317	B



KERB RETURN PLAN - KR 4

SCALE 1:200

NOTE: KERB RETURNS ARE SETOUT TO THE LIP OF GUTTER CONTRACTOR TO ENSURE SMOOTH TRANSITION TO EXISTING PAVEMENT

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026

REGISTERED SURVEYOR ID: 8890
ORION GROUP

CAMDEN COUNCIL
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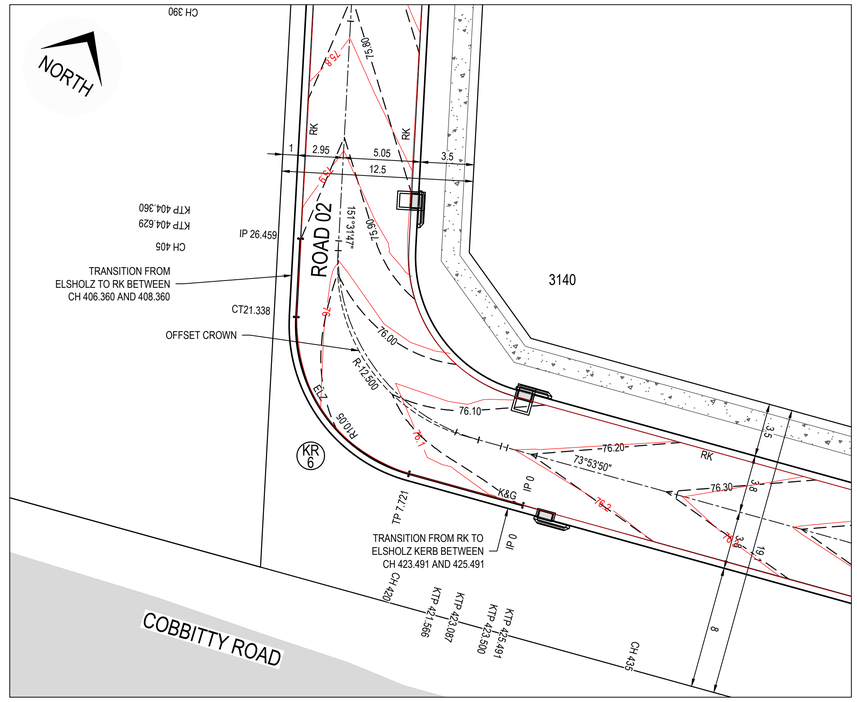
APPROVAL

19/03/2026

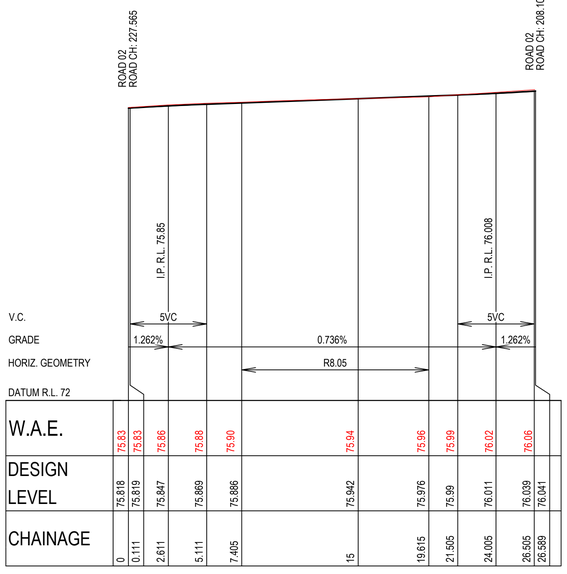
SUBDIVISION WORKS CERTIFICATE

DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1



KERB RETURN PLAN - KR 6

SCALE 1:200



KERB RETURN KR 4

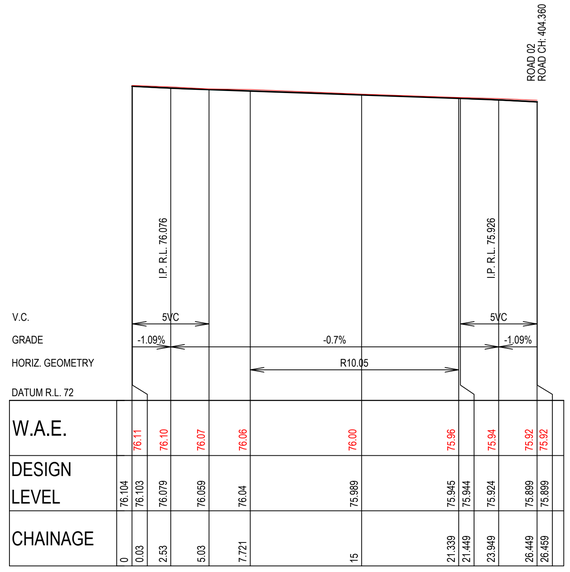
SCALE 1:200 (H)
SCALE 1:40 (V)

SETOUT TABLE KR 4

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	288528.664	6234038.772	331°31'47.18"		
7.405	288525.134	6234045.282			
13.51	288521.498	6234051.986		8.05	12.21
19.615	288527.996	6234055.978			
26.589	288533.939	6234059.629	58°26'02.07"		

SETOUT TABLE KR 6

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	288634.424	6233876.133	253°53'51.09"		
7.721	288627.006	6233873.992	253°53'51.09"		
14.53	288619.238	6233871.749		10.05	13.617
21.338	288615.384	6233878.857	331°31'50.13"		
26.459	288612.943	6233883.358	331°31'50.13"		



KERB RETURN KR 6

SCALE 1:200 (H)
SCALE 1:40 (V)

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	AP	AP	AP	17/07/2025	ISSUED FOR MOD APPLICATION
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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SCALE 1:40 (A1) SCALE 1:80 (A3)

For: mirvac

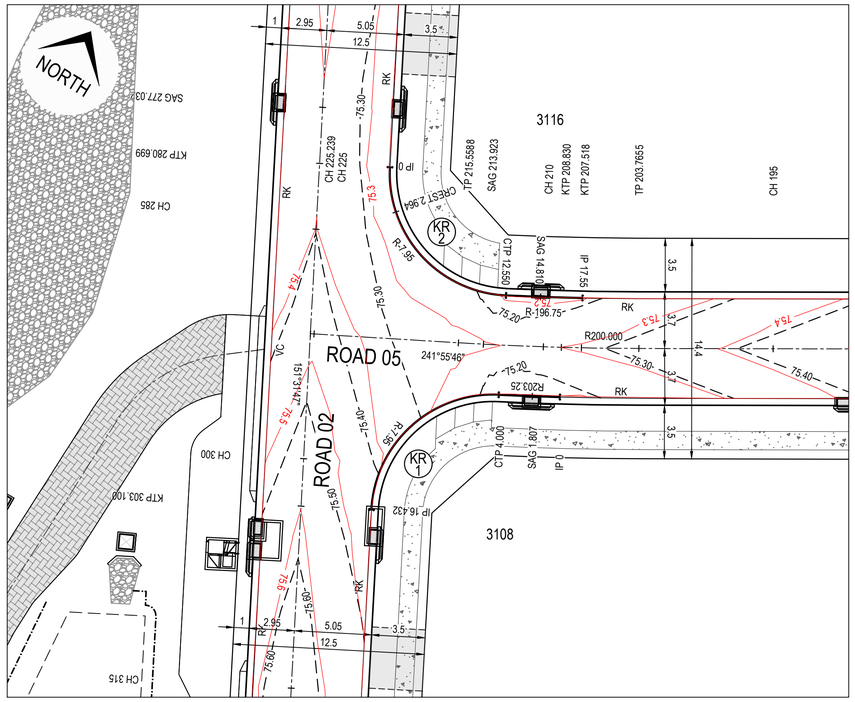
By: ORION

ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theorigroup.au

Project: 2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

Title: KERB RETURN PLAN, PROFILES & SETOUT TABLES SHEET 01

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	400	B



KERB RETURN PLAN - KR 1, 2

SCALE 1:200

NOTE: KERB RETURNS ARE SETOUT TO THE LIP OF GUTTER CONTRACTOR TO ENSURE SMOOTH TRANSITION TO EXISTING PAVEMENT

SETOUT TABLE KR 1

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	288577.546	6233988.475	240°00'07.23"		
2	288575.814	6233987.475		203.25	4
4	288574.063	6233986.509	241°07'46.56"		
10.216	288567.149	6233982.697		-7.95	12.432
16.432	288570.913	6233975.757	151°31'47.00"		

SETOUT TABLE KR 2

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	288560.234	6233995.449	151°31'47.00"		
6.275	288564.054	6233988.406		-7.95	12.55
12.55	288571.067	6233992.28	61°04'55.66"		
15.05	288573.255	6233993.489		-196.75	5
17.55	288575.412	6233994.753	59°37'33.86"		

SETOUT TABLE KR 15

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	288612.976	6233924.424	241°55'45.26"		
4.5	288609.005	6233922.306	241°55'45.26"		
10.772	288601.941	6233918.539		-7.95	12.543
17.043	288605.758	6233911.501	151°31'47.00"		

SETOUT TABLE KR 16

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	288592.44	6233936.059	151°31'48.18"		
5.535	288595.079	6233931.193			
11.752	288598.843	6233924.253		-7.95	12.432
17.968	288605.809	6233927.968			
23.169	288610.398	6233930.415	61°55'48.91"		

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026
REGISTERED SURVEYOR ID: 8890
ORION GROUP

CAMDEN COUNCIL
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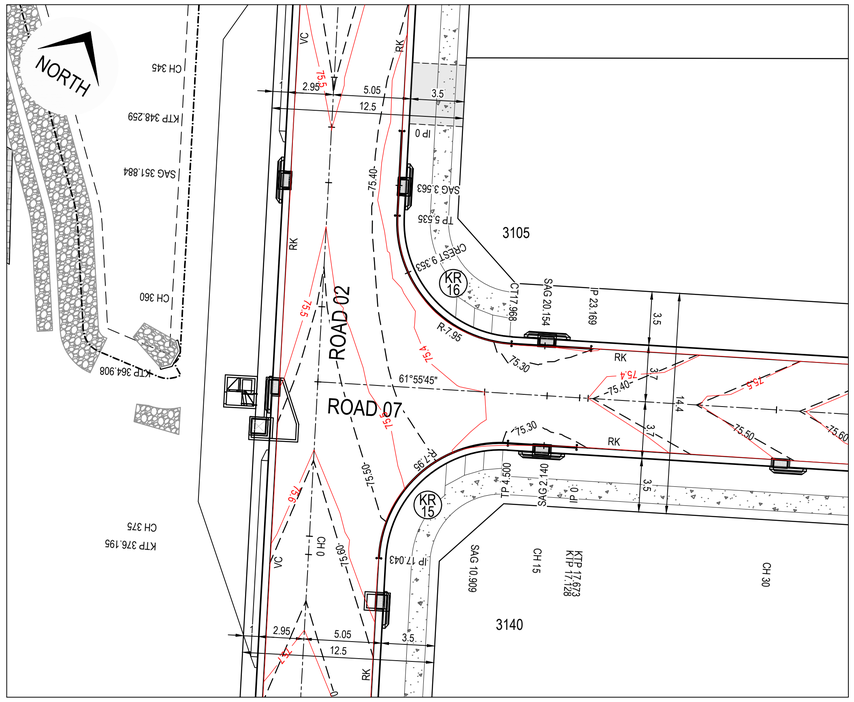
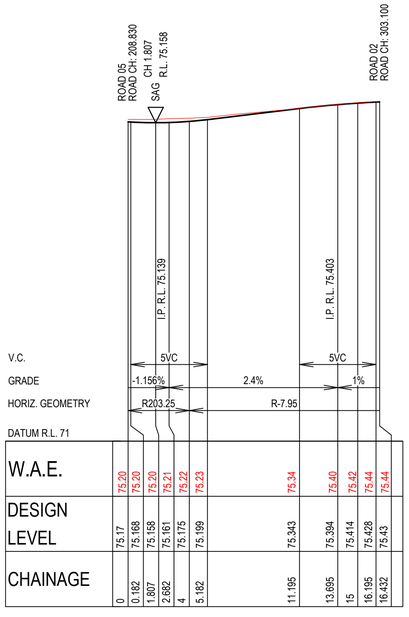
APPROVAL
19/03/2026
SUBDIVISION WORKS CERTIFICATE
DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1



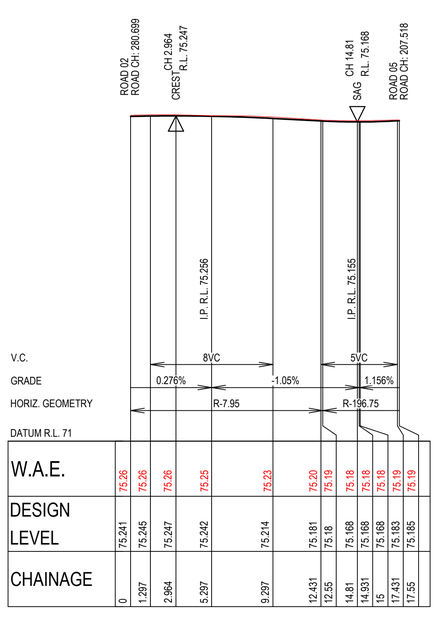
KERB RETURN PLAN - KR 15, 16

SCALE 1:200



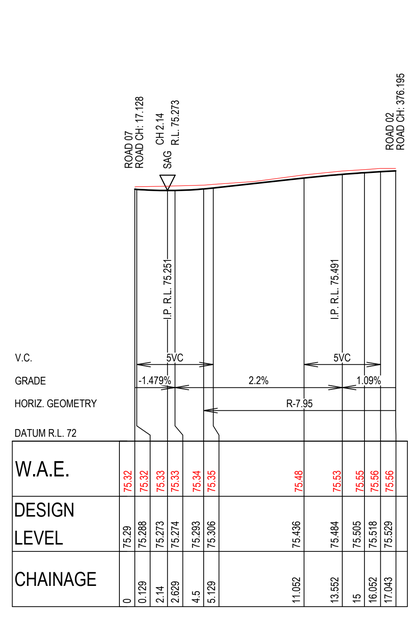
KERB RETURN KR 1

SCALE 1:200 (H)
SCALE 1:40 (V)



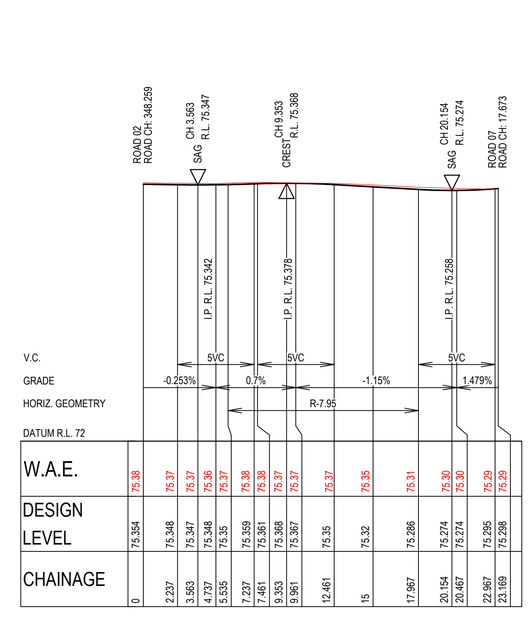
KERB RETURN KR 2

SCALE 1:200 (H)
SCALE 1:40 (V)



KERB RETURN KR 15

SCALE 1:200 (H)
SCALE 1:40 (V)



KERB RETURN KR 16

SCALE 1:200 (H)
SCALE 1:40 (V)

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	AP	AP	AP	17/07/2025	ISSUED FOR MOD APPLICATION
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale:
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SCALE 1:200 (A1) SCALE 1:400 (A3)
0 0.4 0.8 1.2 1.6 2 2.4 2.8 3.2 3.6 4
SCALE 1:40 (A1) SCALE 1:80 (A3)

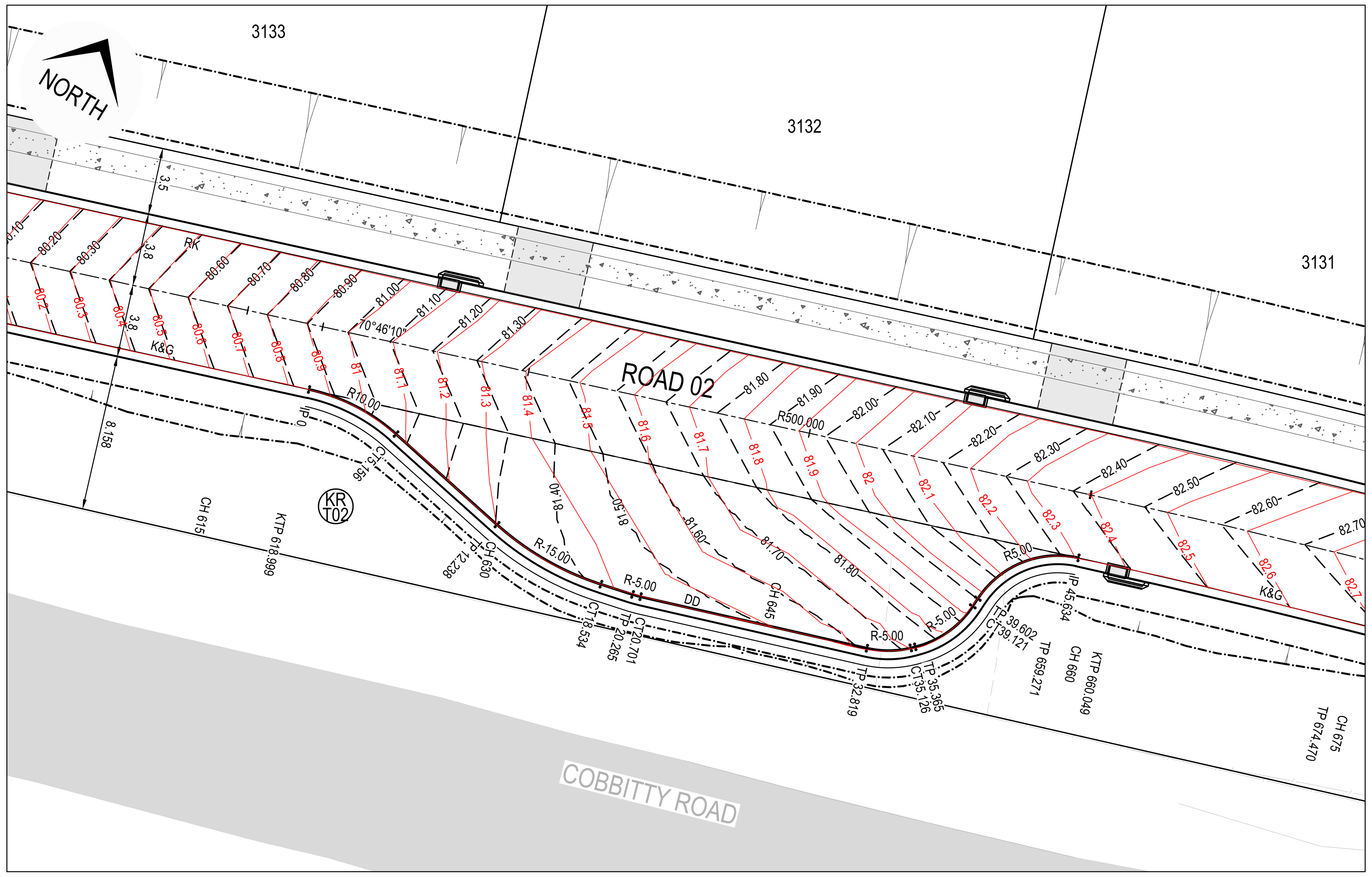
For: mirvac

By: ORION
SUSTAINABLE AUSTRALIA
JAS-ANZ WWW.JAS-ANZ.ORG/REGISTER
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project:
2 FRESHWATER DRIVE, COBBITTY
(TRANCHE 3, STAGE 3a)
ROAD & DRAINAGE DESIGN

Title:
KERB RETURN PLAN, PROFILES & SETOUT TABLES SHEET 02

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	401	B



KERB RETURN PLAN - T02

SCALE 1:200

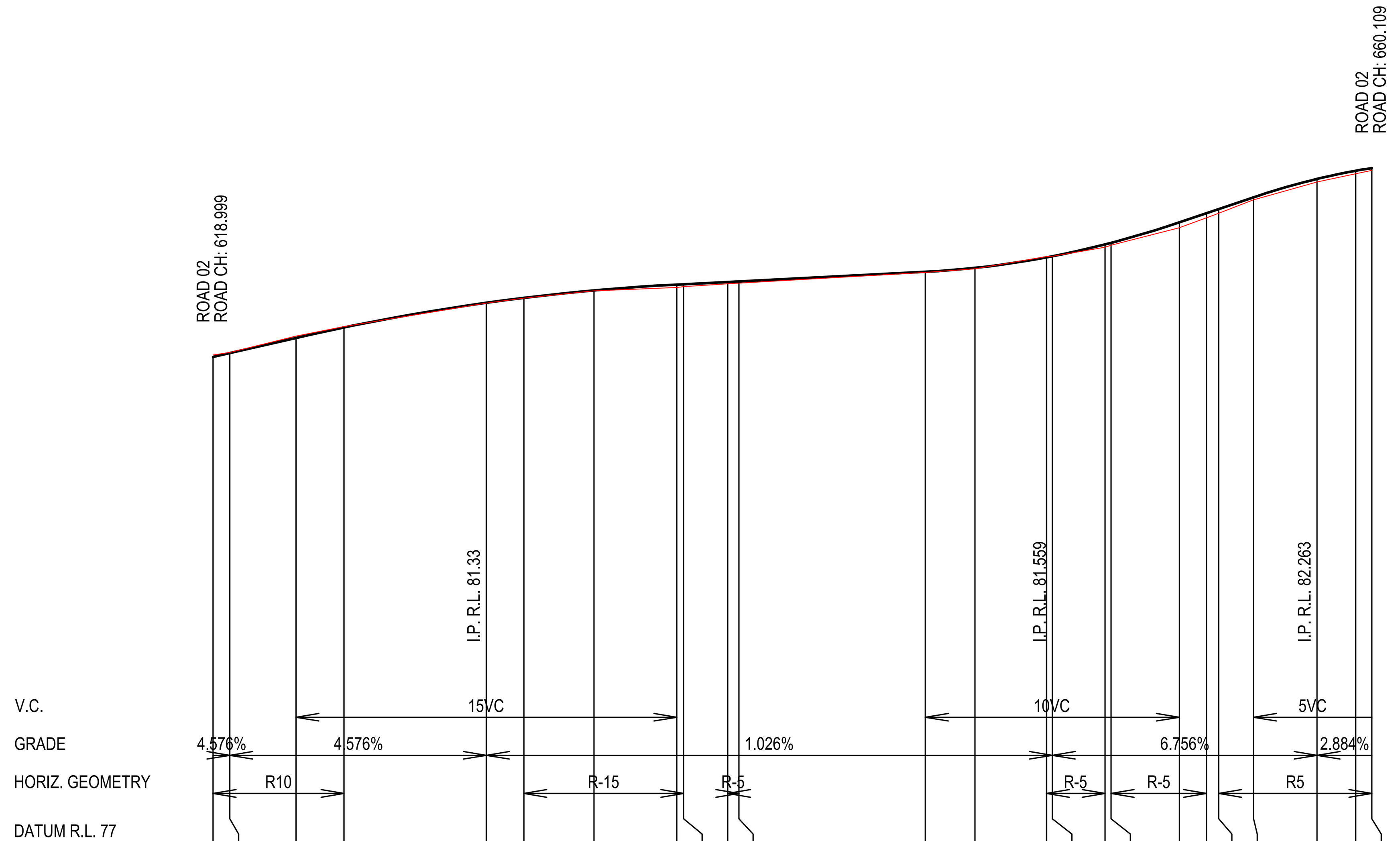
NOTE: KERB RETURNS ARE SETOUT TO THE LIP OF GUTTER
CONTRACTOR TO ENSURE SMOOTH TRANSITION TO
EXISTING PAVEMENT

SETOUT TABLE KR T02

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	288818.557	6233936.027	70°46'10.00"		
2.578	288821.047	6233936.896		10	5.156
5.156	288823.641	6233936.424	100°18'48.11"		
13.334	288831.687	6233934.96	100°18'48.11"		
16.482	288834.83	6233934.388		-15	6.295
19.63	288837.933	6233935.146	76°15'59.36"		
26.747	288844.847	6233936.836	76°15'59.36"		

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026
REGISTERED SURVEYOR ID: 8890
ORION GROUP

CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL
19/03/2026
SUBDIVISION WORKS CERTIFICATE
DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1



CHAINAGE	DESIGN LEVEL	W.A.E.
0	80.838	80.85
0.655	80.868	80.87
3.261	80.987	81.00
5.156	81.069	81.08
10.761	81.264	81.26
12.238	81.302	81.30
15	81.361	81.36
18.261	81.407	81.38
18.534	81.41	81.39
20.265	81.428	81.41
20.701	81.432	81.42
28.05	81.508	81.50
30	81.538	81.53
32.819	81.622	81.63
33.05	81.63	81.63
35.126	81.724	81.70
35.365	81.736	81.72
38.05	81.897	81.85
39.121	81.969	81.94
39.602	82.002	81.97
40.975	82.094	82.07
43.475	82.239	82.22
45	82.303	82.28
45.634	82.325	82.31

KERB RETURN KR T02

SCALE 1:200 (H)
SCALE 1:40 (V)

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Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	AP	AP	AP	17/07/2025	ISSUED FOR MOD APPLICATION
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SCALE 1:40 (A1) SCALE 1:80 (A3)

For: mirvac

By: ORION

ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project: 2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

Title: KERB RETURN PLAN, PROFILES & SETOUT TABLES SHEET 03

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	402	B

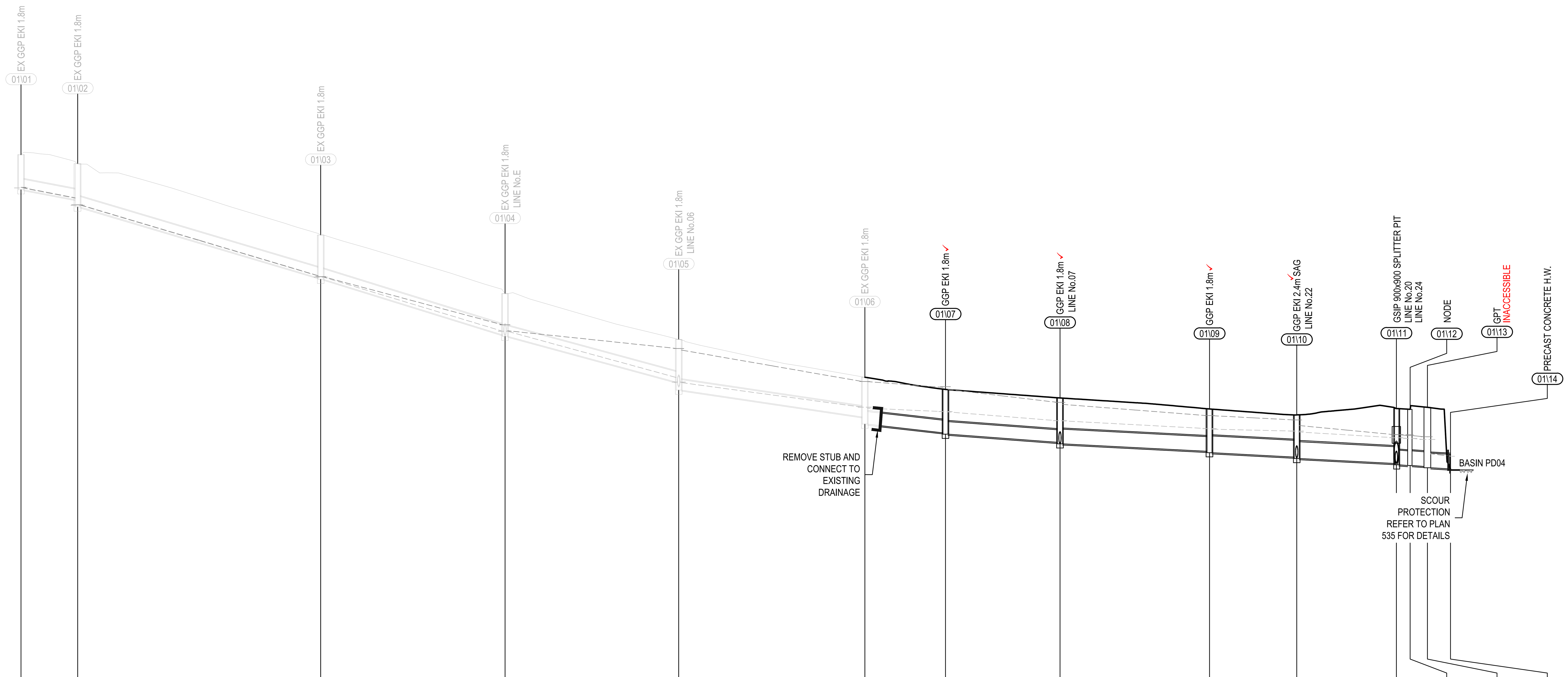
WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026

REGISTERED SURVEYOR ID: 8890
ORION GROUP

LEGEND

5 YEAR HGL LEVEL	- - - - - -
100YEAR HGL LEVEL	- - - - - -



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APPROVAL

19/03/2026

SUBDIVISION WORKS CERTIFICATE

DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

Segment	PIPE MAX. VELOCITY (m/s)	DISCHARGE (cu.m/s)	PIPE SIZE (mm) & CLASS	DESIGN GRADE	PIPE LENGTH
01\01–01\02	1.18	0.01	375 EX RRJ2	3.48%	10.131
01\02–01\03	2.16	0.03	375 EX RRJ2	5.83%	43.466
01\03–01\04	1.92	0.04	375 EX RRJ2	6.04%	32.96
01\04–01\05	3.23	0.16	375 EX RRJ2	5.27%	31.068
01\05–01\06	2.67	0.22	375 EX RRJ2	2.88%	33.278
01\06–01\07	2.33	0.26	450 ✓ RRJ2	2.15% (2.04% WAE)	14.419 (14.68 WAE)
01\07–01\08	2.04	0.29	450 ✓ RRJ2	1.42% (1.42% WAE)	20.482 (20.39 WAE)
01\08–01\09	1.86	0.34	525 ✓ RRJ2	1% (1.01% WAE)	26.738 (26.79 WAE)
01\09–01\10	1.75	0.38	600 ✓ RRJ2	1% (0.96% WAE)	15.603 (15.60 WAE)
01\10–01\11	1.62	0.46	600 ✓ RRJ2	1% (1.31% WAE)	17.815 (17.62 WAE)
01\11–01\12	2.14	0.46	525 RRJ2	1%	2.461 (2.58 WAE)
01\12–01\13	2.14	0.46	525 ✓ RRJ2	1%	3.088 (1.56 WAE)
01\13–01\14	2.2	0.46	525 ✓ RRJ2	1%	4.132 (4.71 WAE)

DATUM R.L 59.0

Pit	DEPTH TO INVERT (in / out)	DESIGN HGL (in / out)	INVERT LEVEL (in / out)	SURFACE LEVEL	ROAD CHAINAGE	PIPE CHAINAGE
01\01	1.256	83.346	83.289	84.544	240.548	0
01\02	1.285 / 1.55	82.987 / 82.738	82.936 / 82.671	84.221	233.628	10.131
01\03	1.533 / 1.583	80.204 / 80.163	80.137 / 80.087	81.67	189.876	53.598
01\04	1.479 / 1.529	78.229 / 78.225	78.096 / 78.046	79.575	156.323	86.558
01\05	1.528 / 1.816	76.573 / 76.39	76.407 / 76.12	77.936	125.179	117.626
01\06	1.422 / 1.679 (1.54)	75.509 / 75.473	75.16 / 74.903 (74.97)	76.582 (76.51 LIP)	91.901	150.904
01\07	1.55 (1.50) / 1.6 (1.65)	75.352 / 75.34	74.594 (74.67) / 74.544 (74.52)	76.144 (76.17 LIP)	77.482	165.323
01\08	1.586 (1.62) / 1.641 (1.67)	75.026 / 75.021	74.253 (74.23) / 74.198 (74.18)	75.839 (75.85 LIP)	57	185.805
01\09	1.516 (1.59) / 1.566 (1.63)	74.746 / 74.724	73.931 (73.91) / 73.881 (73.87)	75.447 (75.50 LIP)	30.474	212.543
01\10	1.508 (1.61) / 1.558 (1.66)	74.655 / 74.621	73.725 (73.72) / 73.675 (73.67)	75.233 (75.33 LIP)	14.871	228.146
01\11	1.964 / 2.014	74.419	73.497 (73.44) / 73.447	75.461	367.861	245.961
01\12	2.014 / 2.014 (2.13)	74.391	73.422 / 73.422 (73.37)	75.436 (75.50 LIP)	365.4	248.422
01\13	2.113 / 2.163	74.355 / 73.835	73.391 / 73.341	75.505	366.277	251.511
01\14	0.525 / 0.525	73.753	73.3 / 73.3 (73.26)	73.825	363.916	255.643

LINE 01

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	AP	AP	AP	17/07/2025	ISSUED FOR MOD APPLICATION
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale:
0 5 10 15 20 25 30 35 40 45 50
SCALE 1:500 (A1) SCALE 1:1000 (A3)
0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100 (A1) SCALE 1:200 (A3)

For: mirvac

By: ORION

ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project:
2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

Title:
DRAINAGE LONG SECTIONS SHEET 01

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	510	B

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Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL

19/03/2026

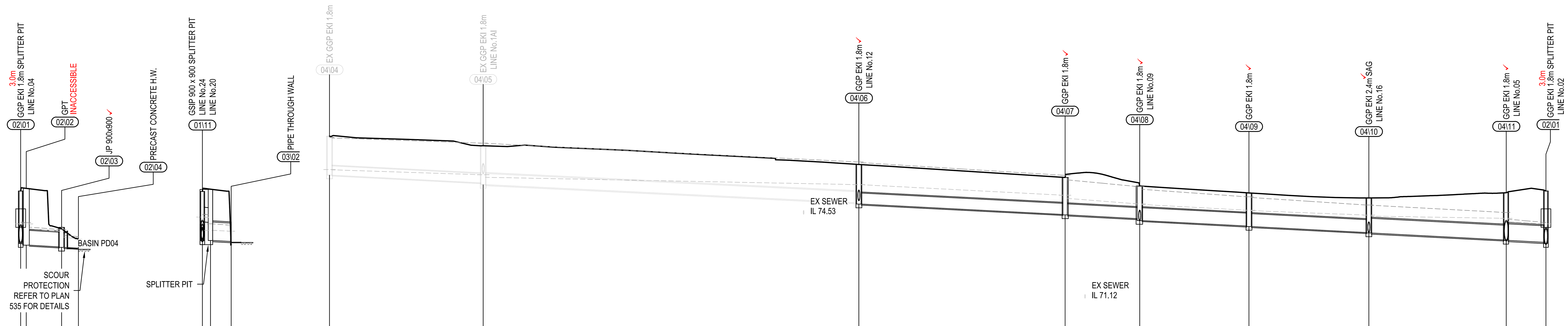
SUBDIVISION WORKS CERTIFICATE

DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026
REGISTERED SURVEYOR ID: 8890
ORION GROUP

LEGEND

5 YEAR HGL LEVEL
100YEAR HGL LEVEL



LINE 02

	02\01	02\01–02\02	02\02	02\02–02\03	02\03	02\03–02\04	02\04
PIPE MAX. VELOCITY (m/s)		1.5		1.49		1.73	
DISCHARGE (cu.m/s)		0.42		0.42		0.42	
PIPE SIZE (mm) & CLASS		600 ✓ RRJ2		600 ✓ RRJ2		600 ✓ RRJ2	
DESIGN GRADE		1%		1%		1% 1.59%	
DATUM R.L	54.0						
DEPTH TO INVERT	2.143 2.22		2.26 2.31		0.88 0.796 0.816 0.90		0.6 0.6
DESIGN HGL	74.144		74.139 73.941		73.843 73.604		73.516
INVERT LEVEL	73.338 73.32		73.326 73.276		73.24 73.204 73.184 73.22		73.15 73.15 73.19
SURFACE LEVEL	75.481 75.54 LIP		75.586 75.60		74 74.12		73.75
ROAD CHAINAGE	306.002		306.059				
PIPE CHAINAGE	0	1.79 1.138	1.138	6.55 7.184	8.322	1.89 3.429	11.751

LINE 03

	01\11	01\11–pit	pit	pit–03\02	03\02
PIPE MAX. VELOCITY (m/s)		2.24		2.63	
DISCHARGE (cu.m/s)		0.67		0.67	
PIPE SIZE (mm) & CLASS		1500x600 WEIR		750 ✓ RRJ2	
DESIGN GRADE		1%		1% 1.39%	
DATUM R.L	54.0				
DEPTH TO INVERT	2.014 1.241		1.35 2.09		0.75 0.75
DESIGN HGL	74.419		74.402 73.876		73.84
INVERT LEVEL	73.447 74.22 74.16		74.204 73.464 73.45		73.422 73.422 73.37
SURFACE LEVEL	75.461		75.554		74.172
ROAD CHAINAGE	367.861		367.891		367.957
PIPE CHAINAGE	0	0.67 1.654	1.654	5.74 4.211	5.865

LINE 04

	04\04	04\04–04\05	04\05	04\05–04\06	04\06	04\06–04\07	04\07	04\07–04\08	04\08
PIPE MAX. VELOCITY (m/s)		1.49		1.62		1.56		1.61	
DISCHARGE (cu.m/s)		0.1		0.2		0.24		0.26	
PIPE SIZE (mm) & CLASS		375 EX RRJ2		450 ✓ EX RRJ2		450 ✓ RRJ2		450 ✓ RRJ2	
DESIGN GRADE		1%		0.97%		1% 1.19%		1% 0.92%	
DATUM R.L	54.0								
DEPTH TO INVERT	1.538 1.588		1.511 1.581		1.61 1.56 1.615 1.65		1.63 1.505 1.525 1.67		1.46 1.328 1.406 1.50
DESIGN HGL	76.35 76.341		76.141 76.037		75.739 75.735		75.308 75.177		74.956 74.93
INVERT LEVEL	76.173 76.123		75.81 75.74		74.99 75 74.945 74.95		74.45 74.525 74.505 74.41		74.27 74.353 74.275 74.23
SURFACE LEVEL	77.712		77.321		76.56 76.60 LIP		76.031 76.08 LIP		75.681 75.73 LIP
ROAD CHAINAGE	55.9		87.198		163.725		205.725		230.188
PIPE CHAINAGE	56.029	31.298	87.327	76.527	163.854	42.05 42	205.854	15.28 15.198	221.052

	04\08–04\09	04\09	04\09–04\10	04\10	04\10–04\11	04\11	04\11–02\01	02\01
PIPE MAX. VELOCITY (m/s)	1.65		1.73		1.22		1.36	
DISCHARGE (cu.m/s)	0.28		0.31		0.34		0.97	
PIPE SIZE (mm) & CLASS	525 ✓ RRJ2		525 ✓ RRJ2		600 ✓ RRJ2		(2x)675 ✓ RRJ2	
DESIGN GRADE	1% 0.95%		1% 1.02%		1% 0.79%		1% 0.99%	
DEPTH TO INVERT		1.44 1.348 1.368 1.50		1.55 1.408 1.428 1.57		1.99 1.92 1.94 2.02		2.18 2.093 2.143 2.22
DESIGN HGL		74.695 74.678		74.5 74.454		74.368 74.241		74.144
INVERT LEVEL		74.02 74.052 74.032 73.96		73.71 73.788 73.768 73.69		73.47 73.488 73.468 73.44		73.36 73.388 73.338 73.32
SURFACE LEVEL		75.401 75.46 LIP		75.196 75.26 LIP		75.408 75.46 LIP		75.481 75.54 LIP
ROAD CHAINAGE		252.448		276.867		304.849		306.002
PIPE CHAINAGE	22.12 22.26	243.312	24.52 24.419	267.731	27.78 27.982	295.713	8.08 8.083	303.796

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

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SUSTAINABLE CERTIFICATION ISO 9001 ISO 45001 ISO 14001
JAS-ANZ WWW.JAS-ANZ.ORG/REGISTER

Project:
2 FRESHWATER DRIVE, COBBITTY
(TRANCHE 3, STAGE 3a)
ROAD & DRAINAGE DESIGN

Title:
DRAINAGE LONG SECTIONS
SHEET 02

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	511	B

CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL

19/03/2026

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DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

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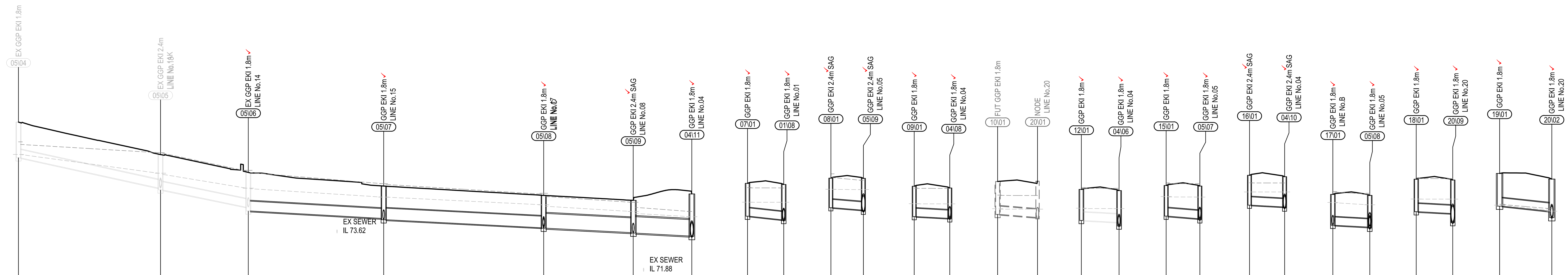
100YEAR HGL LEVEL	- - - - - -



LINE 05

	05\04 – 05\05	05\05 – 05\06	05\06 – 05\07	05\07 – 05\08	05\08 – 05\09	05\09 – 04\11
PIPE MAX. VELOCITY (m/s)	2.56	2.8	1.84	1.6	1.7	1.68
DISCHARGE (cu.m/s)	0.12	0.23	0.28	0.35	0.57	0.63
PIPE SIZE (mm) & CLASS	375 EX RRJ2	375 EX RRJ2	450 ✓ RRJ2	525 ✓ RRJ2	675 ✓ RRJ2	750 ✓ RRJ2
DESIGN GRADE	4.26%	3.92%	1.1% 1.62%	1% 0.60%	1% 0.98%	1% 0.71%
DATUM R.L	55.0					
DEPTH TO INVERT	1.578 1.628 … 1.526	1.615 … 1.584	1.759 1.76 … 1.72 1.477	1.537 1.76 … 1.57 1.477	1.497 1.61 … 1.62 1.476	1.496 1.66 … 2.00 1.92 / 1.94 2.02
DESIGN HGL	77.233 77.207 … 76.352	76.303 … 75.673	75.647 … 75.267	75.263 … 74.915	74.845 … 74.609	74.52 … 74.368 / 74.241
INVERT LEVEL	77.107 77.057 … 75.679	75.589 … 74.805	74.63 74.60 … 74.10 74.29	74.231 74.06 … 73.84 73.866	73.846 73.80 … 73.59 73.642	73.622 73.55 … 73.46 73.488 / 73.468 73.44
SURFACE LEVEL	78.685	77.204	76.389 76.36 LIP	75.767 75.82 LIP	75.343 75.41 LIP	75.118 75.21 LIP / 75.408 75.46 LIP
ROAD CHAINAGE	70.626	103.022	123.026	153.894	190.359	210.646 / 304.849
PIPE CHAINAGE	70.763 — 32.37	103.133 — 20.004	123.137 — 30.82 30.868	154.005 — 36.40 36.466	190.47 — 21.33 20.413	210.883 — 12.71 13.355 / 224.238

LINES 07 – 19

	LINE 07	LINE 08	LINE 09	LINE 10	LINE 12	LINE 15	LINE 16	LINE 17	LINE 18	LINE 19
PIPE MAX. VELOCITY (m/s)	0.41	0.49	0.41	0.74	0.85	0.61	0.36	1.02	0.65	0.77
DISCHARGE (cu.m/s)	0.02	0.02	0.02	0.03	0.04	0.04	-0.02	0.11	0.02	0.01
PIPE SIZE (mm) & CLASS	375 ✓ RRJ2	375 ✓ RRJ2	375 ✓ RRJ2	375 FUT RRJ2	375 ✓ EX RRJ2	375 ✓ RRJ2	375 ✓ RRJ2	375 ✓ RRJ2	375 ✓ RRJ2	375 ✓ RRJ2
DESIGN GRADE	2% 1.72%	1.5% 1.09%	1% 1.24%	1.5%	1% 1.05%	1.5% 1.04%	1% 1.14%	1% 1.20%	1% 0.97%	1.98% 1.85%
DATUM R.L	55.0	54.0	55.0	62.0	56.0	55.0	54.0	55.0	55.0	61.0
DEPTH TO INVERT	1.5 1.56 … 1.63 1.611 / 1.641 1.67	1.345 1.51 … 1.61 1.446 / 1.496 1.66	1.384 1.46 … 1.47 1.386 / 1.406 1.50	1.502 … 1.652 / 1.721	1.416 1.55 … 1.57 1.447 / 1.615 1.65	1.399 1.65 … 1.71 1.487 / 1.537 1.76	1.361 1.50 … 1.54 1.378 / 1.428 1.57	1.409 1.50 … 1.57 1.447 / 1.497 1.61	1.483 1.57 … 1.63 1.529 / 1.942 2.05	1.491 1.54 … 1.47 1.472 / 1.76 1.95
DESIGN HGL	75.027 … 75.026 / 75.021	74.611 … 74.609 / 74.52	74.956 … 74.956 / 74.93	81.712 … 81.716 / 81.59	75.741 … 75.739 / 75.735	75.27 … 75.267 / 75.263	74.499 … 74.5 / 74.454	75.006 … 74.915 / 74.845	75.173 … 75.173 / 75.089	80.893 … 80.654 / 80.615
INVERT LEVEL	74.393 74.36 … 74.22 74.228 / 74.198 74.18	73.783 73.68 … 73.60 73.672 / 73.622 73.55	74.376 74.36 … 74.26 74.295 / 74.275 74.23	81.475 … 81.339 / 81.269	75.199 75.12 … 75.03 75.114 / 74.945 74.95	74.396 74.19 … 74.11 74.281 / 74.231 74.06	73.898 73.81 … 73.72 73.818 / 73.768 73.69	73.98 73.94 … 73.84 73.896 / 73.846 73.80	74.598 74.56 … 74.48 74.515 / 74.102 74.06	80.852 80.85 … 80.63 80.616 / 80.328 80.15
SURFACE LEVEL	75.893 75.92 LIP / 75.839 75.85 LIP	75.128 75.19 LIP / 75.118 75.21 LIP	75.76 75.82 LIP / 75.681 75.73 LIP	82.977 / 82.99	76.615 76.67 LIP / 76.56 76.60 LIP	75.795 75.84 LIP / 75.767 75.82 LIP	75.259 75.31 LIP / 75.196 75.26 LIP	75.389 75.44 LIP / 75.343 75.41 LIP	76.081 76.13 LIP / 76.044 76.11 LIP	82.343 82.39 LIP / 82.088 82.10 LIP
ROAD CHAINAGE	60.641 / 57	210.291 / 210.646	228.933 / 230.188	695 / 690	159.383 / 163.725	151.842 / 153.894	276.867 / 276.867	186.368 / 190.359	427.083 / 423.696	662.277 / 653.111
PIPE CHAINAGE	0 — 8.16 8.247 / 8.247	0 — 7.33 7.408 / 7.408	0 — 8.06 8.098 / 8.098	0 — 9.097 / 9.097	0 — 8.55 8.58 / 8.58	0 — 7.68 7.679 / 7.679	0 — 7.91 8 / 8	0 — 8.32 8.408 / 8.408	0 — 8.22 8.321 / 8.321	0 — 11.92 11.895 / 11.895

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	AP	AP	AP	17/07/2025	ISSUED FOR MOD APPLICATION
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale:
0 5 10 15 20 25 30 35 40 45 50
SCALE 1:500 (A1) SCALE 1:1000 (A3)
0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100 (A1) SCALE 1:200 (A3)

For: mirvac

By: ORION

ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project:
2 FRESHWATER DRIVE, COBBITTY
(TRANCHE 3, STAGE 3a)
ROAD & DRAINAGE DESIGN

Title:
DRAINAGE LONG SECTIONS
SHEET 03

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	512	B

CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL

19/03/2026

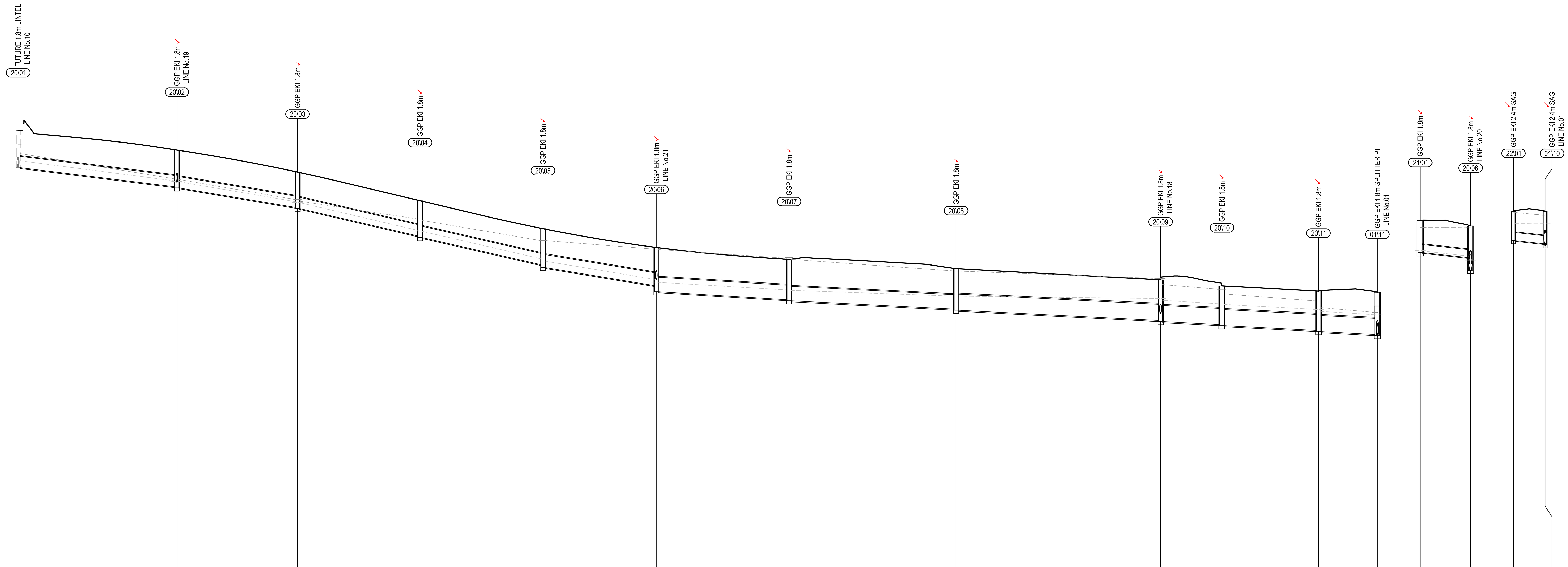
SUBDIVISION WORKS CERTIFICATE

DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026
[signature]
REGISTERED SURVEYOR ID: 8890
ORION GROUP

LEGEND

5 YEAR HGL LEVEL
100YEAR HGL LEVEL



Pipe data (design in black / as executed in red):

Line	Pipe	PIPE MAX. VELOCITY (m/s)	DISCHARGE (cu.m/s)	PIPE SIZE (mm) & CLASS	DESIGN GRADE	PIPE LENGTH
LINE 20	20\01 – 20\02	2.27	0.36	525✓ RRJ2	2.41%	37.002
LINE 20	20\02 – 20\03	3.41	0.4	525✓ RRJ2	3.24% / 3.06%	28.11 / 28.111
LINE 20	20\03 – 20\04	3.99	0.44	525✓ RRJ2	4.49% / 4.32%	28.47 / 28.538
LINE 20	20\04 – 20\05	4.05	0.48	525✓ RRJ2	4.42% / 4.31%	28.75 / 28.65
LINE 20	20\05 – 20\06	3.82	0.52	600✓ RRJ2	3.2% / 3.14%	26.09 / 26.425
LINE 20	20\06 – 20\07	2.43	0.58	675✓ RRJ2	1.2% / 1.22%	31.16 / 30.93
LINE 20	20\07 – 20\08	2.38	0.61	675✓ RRJ2	1% / 1.00%	38.95 / 38.919
LINE 20	20\08 – 20\09	2.1	0.6	750✓ RRJ2	1% / 1.01%	47.50 / 47.63
LINE 20	20\09 – 20\10	1.82	0.62	750✓ RRJ2	1% / 1.10%	14.49 / 14.318
LINE 20	20\10 – 20\11	1.7	0.63	750✓ RRJ2	1% / 0.89%	22.50 / 22.472
LINE 20	20\11 – 01\11	1.46	0.64	750✓ RRJ2	1% / 1.34%	13.40 / 13.73
LINE 21	21\01 – 20\06	1.05	0.02	375✓ RRJ2	1.99% / 2.26%	11.51 / 11.719
LINE 22	22\01 – 01\10	0.67	0.04	375✓ RRJ2	2% / 1.63%	7.36 / 7.401

DATUM R.L: LINE 20 58.0; LINE 21 57.0; LINE 22 54.0

Pit data (inlet values; outlet values):

Line	Pit	DEPTH TO INVERT	DESIGN HGL	INVERT LEVEL	SURFACE LEVEL	ROAD CHAINAGE	PIPE CHAINAGE
LINE 20	20\01	1.721	81.59	81.269	82.99	690	0
LINE 20	20\02	1.80, 1.71; 1.76, 1.95	80.651; 80.615	80.30, 80.378; 80.328, 80.15	82.088, 82.10 LIP	653.111	37.002
LINE 20	20\03	1.78, 1.647; 1.697, 1.85	79.685; 79.641	79.29, 79.417; 79.367, 79.22	81.064, 81.07 LIP	625	65.113
LINE 20	20\04	1.77, 1.645; 1.716, 1.82	78.344; 78.306	77.99, 78.086; 78.015, 77.94	79.731, 79.76 LIP	596.462	93.651
LINE 20	20\05	1.77, 1.677; 1.806, 1.90	77.023; 76.916	76.70, 76.75; 76.621, 76.57	78.426, 78.47 LIP	567.812	122.3
LINE 20	20\06	1.84, 1.776; 2.063, 2.11	76.067; 75.929	75.75, 75.776; 75.489, 75.48	77.552, 77.59 LIP	541.387	148.725
LINE 20	20\07	1.94, 1.872; 1.922, 2.00	75.573; 75.553	75.10, 75.118; 75.068, 75.04	76.99, 77.04 LIP	510.43	179.655
LINE 20	20\08	1.96, 1.885; 1.935, 2.02	75.288; 75.286	74.65, 74.678; 74.628, 74.59	76.563, 76.61 LIP	471.326	218.575
LINE 20	20\09	2.00, 1.892; 1.942, 2.05	75.173; 75.089	74.11, 74.152; 74.102, 74.06	76.044, 76.11 LIP	423.696	266.205
LINE 20	20\10	1.92, 1.806; 1.856, 1.97	74.927; 74.9	73.90, 73.959; 73.909, 73.85	75.765, 75.82 LIP	401.492	280.522
LINE 20	20\11	1.94, 1.836; 1.886, 2.00	74.666; 74.576	73.65, 73.684; 73.634, 73.59	75.52, 75.59 LIP	379.02	302.994
LINE 20	01\11	1.964; 2.014	74.419	73.41, 73.497; 73.447	75.461	367.861	316.724
LINE 21	21\01	1.493, 1.59	76.39	76.312, 76.26	77.805, 77.85 LIP	550.308	0
LINE 21	20\06	1.59, 1.473; 2.063, 2.11	76.149; 75.929	76.00, 76.079; 75.489, 75.48	77.552, 77.59 LIP	541.387	11.719
LINE 22	22\01	1.361, 1.47	74.658	73.873, 73.83	75.234, 75.30 LIP	14.771	0
LINE 22	01\10	1.62, 1.508; 1.558, 1.66	74.655; 74.621	73.71, 73.725; 73.675, 73.67	75.233, 75.33 LIP	14.871	7.401

LINE 20 | LINE 21 | LINE 22

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	AP	AP	AP	17/07/2025	ISSUED FOR MOD APPLICATION
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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For: mirvac

By: ORION

ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project:
2 FRESHWATER DRIVE, COBBITTY
(TRANCHE 3, STAGE 3a)
ROAD & DRAINAGE DESIGN

Title:
DRAINAGE LONG SECTIONS SHEET 04

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	513	B

CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL

19/03/2026

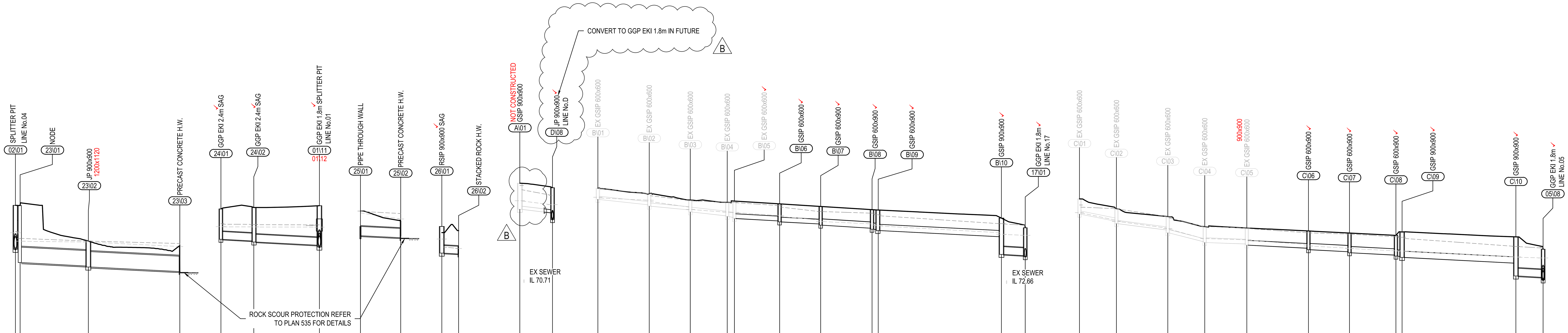
SUBDIVISION WORKS CERTIFICATE

DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026
REGISTERED SURVEYOR ID: 8890
ORION GROUP

LEGEND

5 YEAR HGL LEVEL	- - - - -
100YEAR HGL LEVEL	- - - - -



LINE 23

	Start	Segment 1	Segment 2	Segment 3	End
PIPE MAX. VELOCITY (m/s)		1.92	1.24	1.24	
DISCHARGE (cu.m/s)		0.55	0.55	0.55	
PIPE SIZE (mm) & CLASS		2000x750 WEIR	750 ✓ RRJ2	750 ✓ RRJ2	
DESIGN GRADE		1%	1% 1.2%	1% 1.07%	
DATUM R.L		54.0			
DEPTH TO INVERT	2.143	1.481 1.482	2.782 1.29 1.218	1.268 1.30 0.75	0.75
DESIGN HGL		74.144 74.131	73.73 73.69	73.688	73.47
INVERT LEVEL	73.338	74 74.01 73.989	72.689 72.69 72.49 72.523	72.473 72.48 72.25	72.25 72.24
SURFACE LEVEL		75.481 75.53 LIP	75.471	73.74 73.78	73
ROAD CHAINAGE		306.002	304.875		
PIPE CHAINAGE		0 1.127	1.127 16.72 16.634	17.761 22.45 22.266	40.027

LINE 24

	Segment 1	Segment 2	End
PIPE MAX. VELOCITY (m/s)	0.68	0.57	
DISCHARGE (cu.m/s)	0.03	0.03	
PIPE SIZE (mm) & CLASS	375 ✓ RRJ2	375 ✓ RRJ2	
DESIGN GRADE	1% 1.14%	1% 1.03%	
DATUM R.L	54.0		
DEPTH TO INVERT	1.481 1.58 1.72 1.627	1.677 1.77 2.00 1.925	2.014
DESIGN HGL	74.432 74.431	74.423	74.419
INVERT LEVEL	73.825 73.78 73.69 73.745	73.695 73.64 73.50 73.536	73.447
SURFACE LEVEL	75.307 75.36 LIP	75.372 75.41 LIP	75.461 75.50 LIP
ROAD CHAINAGE	351.884	351.884	367.861
PIPE CHAINAGE	0 7.91 8	8 13.59 15.977	23.977

LINE 25

	Segment 1	End
PIPE MAX. VELOCITY (m/s)	1.9	
DISCHARGE (cu.m/s)	0.3	
PIPE SIZE (mm) & CLASS	450 ✓ RRJ2	
DESIGN GRADE	1% 0.84%	
DATUM R.L	52.0	
DEPTH TO INVERT	0.45 0.45	0.45
DESIGN HGL	73.11	72.817
INVERT LEVEL	72 72.01 71.902	71.902 71.93
SURFACE LEVEL	72.45	72.352
ROAD CHAINAGE		
PIPE CHAINAGE	0 9.54 9.803	9.803

LINE 26

	Segment 1	End
PIPE MAX. VELOCITY (m/s)	1.5	
DISCHARGE (cu.m/s)	0.15	
PIPE SIZE (mm) & CLASS	375 ✓ RRJ2	
DESIGN GRADE	1% 1.86%	
DATUM R.L	53.0	
DEPTH TO INVERT	1.3 1.24 0.375	0.375
DESIGN HGL	72.45	72.377
INVERT LEVEL	72.15 72.20 72.109	72.109 72.11
SURFACE LEVEL	73.45 73.44	72.484
ROAD CHAINAGE		
PIPE CHAINAGE	0 4.83 4.097	4.097

LINE A

	Segment 1	End
PIPE MAX. VELOCITY (m/s)	0.76	
DISCHARGE (cu.m/s)	0.01	
PIPE SIZE (mm) & CLASS	150 UPVC	
DESIGN GRADE	2.17%	
DATUM R.L	53.0	
DEPTH TO INVERT	1.272 1.227	1.552 1.81
DESIGN HGL	74.692 74.514	74.468
INVERT LEVEL	74.286 74.114	73.789 73.76
SURFACE LEVEL	75.558	75.341 75.57
ROAD CHAINAGE	55.783	55.267
PIPE CHAINAGE	0 7.962	7.962

LINE B

	B\01–B\02	B\02–B\03	B\03–B\04	B\04–B\05	B\05–B\06	B\06–B\07	B\07–B\08	B\08–B\09	B\09–B\10	B\10–17\01	End
PIPE MAX. VELOCITY (m/s)	0.92	1.29	1.55	1.57	1.12	1.37	1.43	1.3	1.35	1.04	
DISCHARGE (cu.m/s)	0.01	0.02	0.03	0.03	0.04	0.05	0.06	0.07	0.07	0.07	
PIPE SIZE (mm) & CLASS	150 EX UPVC	150 EX UPVC	225 EX UPVC	225 EX UPVC	225 ✓ UPVC	225 ✓ UPVC	300 ✓ UPVC	300 ✓ UPVC	300 ✓ UPVC	375 ✓ RRJ2	
DESIGN GRADE	2.08%	1.8%	2.11%	2.86%	1.05% 1.02%	1% 1.09%	1.19% 1.04%	1% 0.65%	1% 0.87%	1% 0.86%	
DATUM R.L	55.0										
DEPTH TO INVERT	0.548 0.536	0.606 0.477	0.577 0.66	0.69 0.799	0.849 0.59 0.84 0.827	0.877 0.90 0.84 0.852	0.91 0.91 0.86 0.902	0.952 0.91 0.86 0.95	1 0.90 0.90 0.905	1.769 1.81 1.40 1.359	1.409 1.50
DESIGN HGL	76.84 76.731	76.666 76.394	76.272 76.151	76.144 76.137	76.124 75.988	75.933 75.764	75.69 75.578	75.522 75.499	75.475 75.148	75.061 75.021	75.006
INVERT LEVEL	76.77 76.51	76.44 76.26	76.16 75.97	75.94 75.89	75.84 75.84 75.73 75.724	75.674 75.67 75.56 75.574	75.517 75.49 75.36 75.368	75.318 75.31 75.30 75.303	75.253 75.26 75.00 74.953	74.088 74.09 74.04 74.03	73.98 73.94
SURFACE LEVEL	77.318	77.046	76.737	76.63	76.689 76.43	76.552 76.57	76.426 76.40	76.27 76.22	76.253 76.16	75.857 75.90	75.389 75.44 LIP
ROAD CHAINAGE										185.562	186.368
PIPE CHAINAGE	0 12.501	12.501 10	22.501 9.001	31.502 1.75	33.252 10.77 11.001	44.253 10.05 10.001	54.253 12.49 12.5	66.753 1.54 1.5	68.253 30.05 30.006	98.259 5.79 5.802	104.062

LINE C

	C\01–C\02	C\02–C\03	C\03–C\04	C\04–C\05	C\05–C\06	C\06–C\07	C\07–C\08	C\08–C\09	C\09–C\10	C\10–05\08	End
PIPE MAX. VELOCITY (m/s)	1.17	1.34	1.65	1.12	1.21	1.41	1.38	1.37	1.35	1.04	
DISCHARGE (cu.m/s)	0.01	0.02	0.03	0.04	0.04	0.06	0.07	0.07	0.08	0.08	
PIPE SIZE (mm) & CLASS	150 EX UPVC	150 EX UPVC	150 EX UPVC	225 EX UPVC	225 ✓ UPVC	300 ✓ UPVC	300 ✓ UPVC	300 ✓ UPVC	300 ✓ UPVC	375 ✓ RRJ2	
DESIGN GRADE	3.78%	2.48%	4.78%	0.68%	1% 1.05%	1% 0.80%	1% 0.97%	1% 0.69%	1% 1.00%	1% 1.07%	
DATUM R.L	56.0										
DEPTH TO INVERT	0.744 0.609	0.729 0.655	0.795 0.731	0.771 0.775	0.834 0.73 0.88 0.839	0.91 0.90 0.98 0.909	0.959 1.04 0.83 0.966	1.016 0.91 1.17 1.188	1.238 1.20 1.18 1.279	1.907 1.80 1.44 1.372	1.497 1.61
DESIGN HGL	77.113 76.765	76.695 76.374	76.326	75.859 75.802	75.773 75.569	75.497 75.391	75.373 75.265	75.264 75.25	75.246 74.965	74.953 74.915	74.845
INVERT LEVEL	77.05 76.71	76.59 76.28	76.14 75.71	75.67 75.6	75.541 75.49 75.33 75.391	75.321 75.31 75.23 75.221	75.171 75.17 75.06 75.058	75.008 74.98 74.97 74.993	74.943 74.94 74.66 74.666	74.037 74.04 73.97 73.971	73.846 73.80
SURFACE LEVEL	77.794	77.319	76.935	76.441	76.375 76.22	76.23 76.21	76.129 76.21	76.023 75.89	76.181 76.14	75.945 75.84	75.343 75.41 LIP
ROAD CHAINAGE										189.299	190.359
PIPE CHAINAGE	0 9.001	9.001 12.501	21.501 9.001	30.502 10.251	40.753 15.30 15.001	55.754 10.00 10.001	65.754 11.33 11.301	77.055 1.44 1.5	78.555 27.85 27.708	106.264 6.52 6.629	112.893

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

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A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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For: mirvac

By: ORION

ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project: 2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

Title: DRAINAGE LONG SECTIONS SHEET 05

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	514	B

CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL

19/03/2026

SUBDIVISION WORKS CERTIFICATE

DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

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DATE: 20/04/2026
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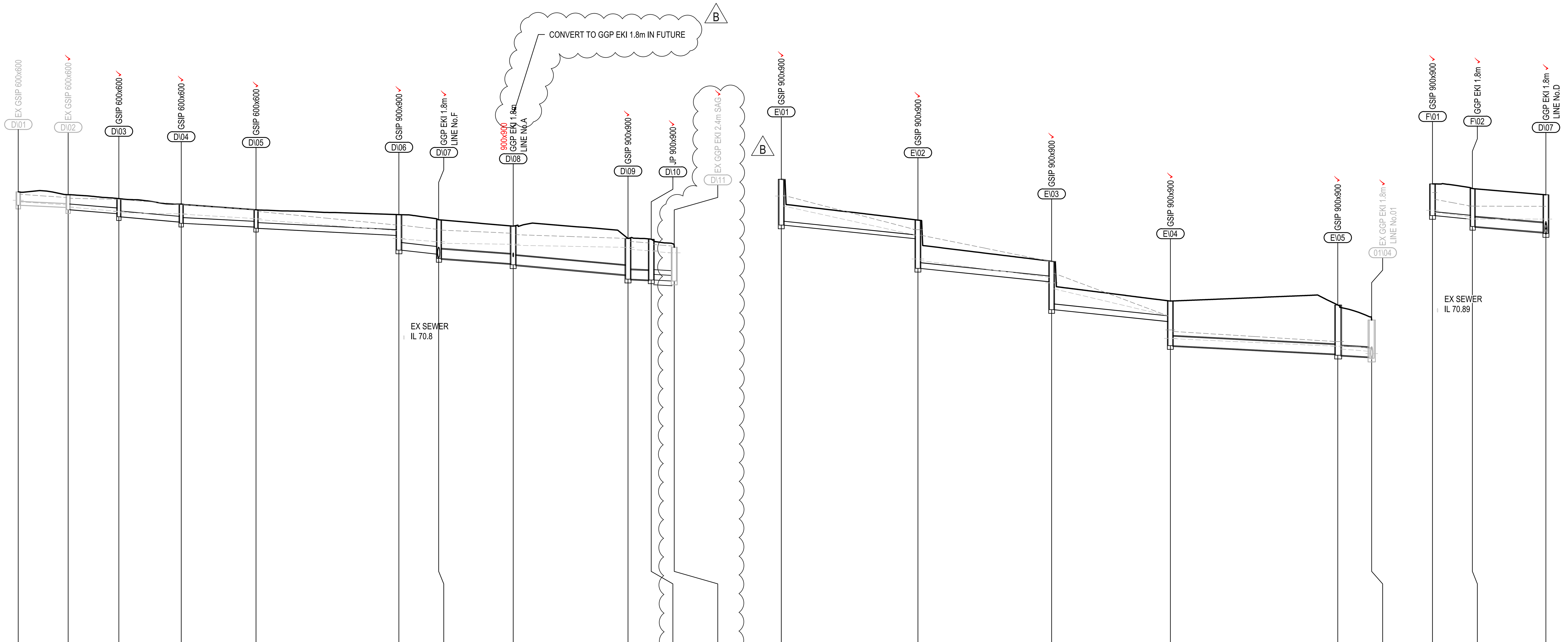
ORION GROUP

LEGEND

- 5 YEAR HGL LEVEL
- 100YEAR HGL LEVEL



LINE D

DATUM R.L 54.0

	D\01–D\02	D\02–D\03	D\03–D\04	D\04–D\05	D\05–D\06	D\06–D\07	D\07–D\08	D\08–D\09	D\09–D\10	D\10–D\11	D\11
PIPE MAX. VELOCITY (m/s)	0.75	1.26	1.26	1.12	1.42	1.25	0.8	0.95	1.13	0.93	
DISCHARGE (cu.m/s)	0.01	0.02	0.03	0.04	0.05	0.07	0.09	0.1	0.13	0.13	
PIPE SIZE (mm) & CLASS	150 EX UPVC	225 ✓ UPVC	225 ✓ UPVC	225 ✓ UPVC	225 ✓ UPVC	300 ✓ UPVC	375 ✓ RRJ2	375 ✓ RRJ2	375 ✓ RRJ2	375 375 RRJ2	
DESIGN GRADE	0.9%	1.57% 1.66%	1.69% 1.44%	1% 1.00%	1% 1.05%	2.03% 1.51%	1.37% 1.39%	1.75% 1.73%	1.0% 1.17%	1.0% 1.20%	
DEPTH TO INVERT	0.535 … 0.511	0.601 0.59 … 0.64 0.603	0.728 0.76 … 0.68 0.721	0.771 0.75 … 0.55 0.69	0.74 0.60 … 0.87 0.832	1.42 1.52 … 1.49 1.377	1.552 1.66 … 1.76 1.502	1.552 1.81 … 1.51 1.46	1.633 1.76 … 1.79 1.635	1.635 2.27 … 2.01 1.356	1.356 2.11
DESIGN HGL	76.314 … 76.191	76.102 … 75.937	75.88 … 75.832	75.819 … 75.644	75.603 … 75.161	74.829 … 74.718	74.654 … 74.615	74.573 … 74.49	74.407 … 74.357	74.322	74.269
INVERT LEVEL	76.18 … 76.09	76 76.00 … 75.83 75.84	75.716 75.71 … 75.53 75.505	75.455 75.46 … 75.31 75.305	75.255 75.26 … 74.96 74.968	74.381 74.31 … 74.19 74.219	74.044 74.02 … 73.81 73.839	73.789 73.76 … 73.36 73.387	73.055 73.11 … 73.06 73.009	72.597 72.58 … 72.52 72.550	72.410 72.42
SURFACE LEVEL	76.715	76.601 76.59	76.443 76.47	76.225 76.21	75.995 75.86	75.801 75.83	75.596 75.68 LIP	75.341 75.57	74.847 74.87	74.817 74.85	74.494 74.53 LIP
ROAD CHAINAGE						40.762	40.331	55.267	34.37	30.12	30.088
PIPE CHAINAGE	0 … 10	10 … 10.24 10.163	20.163 … 12.49 12.5	32.663 … 15.06 15	47.663 … 28.62 28.635	76.299 … 7.93 7.979	84.277 … 15.08 14.936	99.213 … 23.07 23.009	122.222 … 4.26 4.666	126.888 … 5.00 4.609	131.496

LINE E

DATUM R.L 62.0

	E\01–E\02	E\02–E\03	E\03–E\04	E\04–E\05	E\05–01\04	01\04
PIPE MAX. VELOCITY (m/s)	1.65	1.62	2.25	1.44	1.31	
DISCHARGE (cu.m/s)	0.03	0.06	0.09	0.12	0.12	
PIPE SIZE (mm) & CLASS	150 ✓ UPVC	225 ✓ UPVC	225 ✓ UPVC	375 ✓ RRJ2	375 ✓ RRJ2	
DESIGN GRADE	2% 1.95%	2% 1.90%	2% 1.93%	1% 0.98%	1% 0.88%	
DEPTH TO INVERT	1.836 1.95 … 0.76 0.745	1.934 1.96 … 0.83 0.82	1.939 1.96 … 0.84 0.819	1.787 1.06 … 1.14 1.966	2.016 2.04 … 1.55 1.479	1.529
DESIGN HGL	84.148 … 82.98	81.962 … 81.287	80.826 … 79.742	78.83 … 78.528	78.417 … 78.322	78.225
INVERT LEVEL	83.385 83.40 … 82.85 82.837	81.648 81.65 … 81.14 81.112	79.993 80.01 … 79.55 79.517	78.55 79.33 … 79.00 78.214	78.164 78.10 … 78.04 78.096	78.046
SURFACE LEVEL	85.22 85.35	83.582 83.61	81.932 81.97	80.336 80.39	80.18 80.14	79.575 79.59 LIP
ROAD CHAINAGE					161.753	156.323
PIPE CHAINAGE	0 … 28.17 27.388	27.388 … 26.86 26.8	54.188 … 23.78 23.814	78.002 … 33.61 33.541	111.544 … 6.84 6.812	118.356

LINE F

DATUM R.L 53.0

	F\01–F\02	F\02–D\07	D\07
PIPE MAX. VELOCITY (m/s)	0.96	0.22	
DISCHARGE (cu.m/s)	0.01	0.02	
PIPE SIZE (mm) & CLASS	150 ✓ UPVC	375 ✓ RRJ2	
DESIGN GRADE	1.82% 2.02%	1.6% 1.29%	
DEPTH TO INVERT	1.268 1.35 … 1.37 1.227	1.518 1.59 … 1.55 1.502	1.552 1.66
DESIGN HGL	74.898 … 74.715	74.624 … 74.624	74.562
INVERT LEVEL	74.765 74.70 … 74.54 74.62	74.33 74.32 … 74.13 74.094	74.044 74.02
SURFACE LEVEL	76.034 76.05	75.847 75.91 LIP	75.596 75.68 LIP
ROAD CHAINAGE	25.741	25.589	40.331
PIPE CHAINAGE	0 … 7.91 7.99	7.99 … 14.69 14.742	22.732

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	AP	AP	AP	4/11/2025	ISSUED FOR MOD APPLICATION
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale: SCALE 1:500 (A1) / SCALE 1:1000 (A3); SCALE 1:100 (A1) / SCALE 1:200 (A3)

For: mirvac

By: ORION

ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project: 2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

Title: DRAINAGE LONG SECTIONS SHEET 06

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	515	B

NOTES - STACKED ROCK HEADWALLS

1. BACKFILL IS TO BE GRANULAR, FREE DRAINING AND COMPACTED TO 95% MAXIMUM DRY DENSITY.
2. FOUNDATION TO BE APPROVED FOR 200 kPa BEARING CAPACITY.
3. ROCK IS TO BE SOUND DURABLE BASALT OR OTHER MATERIAL APPROVED BY COUNCIL ENGINEER.
4. ROCKS SHALL BE PLACED IN SUCH A MANNER THAT THEY ARE STABLE AND INTERLOCKING AND LAID ROUGHLY COURSED AND BEDDED ON THEIR BROADEST BASE.
5. EACH ROCK SHALL BE:
   - ELONGATED TO ALLOW STACKING ON THE LONGEST AXIS.
   - ANGULAR IN SHAPE (PROMOTES INTERLOCKING)
   - FREE FROM OVERBURDEN, SPOIL, SHALE AND ORGANIC MATERIAL.
6. WALL CONSTRUCTION TO BE SUPERVISED BY A SUITABLY QUALIFIED PERSON.
7. AIR VOIDS SHALL NOT EXCEED 30% VOLUME.
8. THE TOP COURSE OF ROCKS ON EMBANKMENT AND ADJACENT TO PIPE SHALL BE MORTARED INTO POSITION.

ROCK RIP RAP NOTES:

1. ALL RIPRAP MUST CONSIST OF HARD, DURABLE ANGULAR RUN-OF-QUARRY ROCK; RESISTANT TO WEATHERING & WATER ACTION; FREE FROM OVERBURDEN, SPOIL, SHALE & ORGANIC MATERIAL; & SHALL MEET THE GRADATION REQUIREMENTS SPECIFIED.
2. ROUNDED STONES/BOULDERS WILL NOT BE ACCEPTABLE.
3. SHALE & ROCK WITH SHALE SEAMS WILL NOT BE ACCEPTABLE.
4. ROCKS ARE TO BE PLACED OVER A 200mm LAYER OF ANGULAR COBBLES D50=140mm.
5. ALL ROCK & COBBLES TO BE PACKED WITH TOPSOIL. GAPS IN RIPRAP TO BE PLANTED AS SPECIFIED IN VMP, OR WITH SUITABLE NATIVE GRASSES/SEDGES.
6. RIPRAP SHALL BE PLACED ON THE PREPARED SLOPE IN A MANNER THAT WILL PRODUCE A REASONABLY WELL GRADED MASS OF STONE WITH THE MINIMUM PRACTICAL PERCENTAGE OF VOIDS.
7. LARGER STONES SHALL BE WELL DISTRIBUTED & THE ENTIRE MASS OF STONE SHALL CONFORM TO THE GRADATION SPECIFIED BY THE ENGINEERING PLANS.
8. THE MINIMUM THICKNESS OF THE RIPRAP LAYER IS TO BE 1.5 TIMES THE d50 ROCK SIZE & NOT BE LESS THAN 300mm FOR PRACTICAL PLACEMENT.
9. THE RIPRAP THICKNESS SHOULD BE INCREASED BY 50% WHEN THE RIPRAP IS PLACED UNDERWATER - UNLESS THE CONTRACTOR CAN OVERCOME UNCERTAINTIES ASSOCIATED WITH THIS TYPE OF PLACEMENT.
10. THE MINIMUM DENSITY OF STONE USED SHALL NOT BE LESS THAN **2400 kg/cu.m**.
    TYPICAL ROCK WEIGHT RANGES FOR RIPRAP ARE:
    M50 - 60kg (NOM 300MD)
    M15 - 25kg
    M100 - 120kg
11. PLACE OVERSIZED ROCKS (BAFFLE BLOCKS) EVENLY DISTRIBUTED ACROSS THE ROCK MASS.
    H=150mm MIN

NOTES:

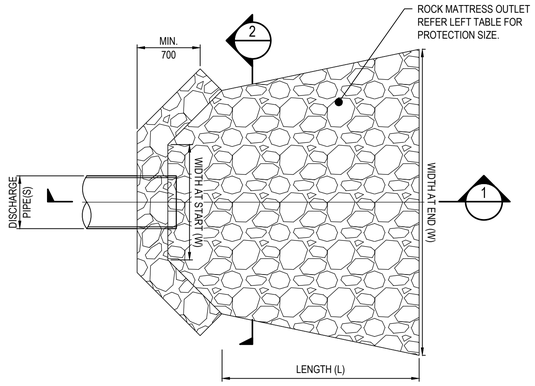
1. MODELLED USING 12D - DYNAMIC (ILSAX)
2. MANNING'S ROUGHNESS FACTOR
   RC PIPES - 0.013mm
   PVC PIPES - 0.009mm
3. RRJ2 DENOTES RUBBER RING JOINT CLASS 2 PIPE. ALL PVC PIPE TO BE CLASS SH.
4. THE PRESSURE CHANGE COEFFICIENT 'K' HAS BEEN DETERMINED DETERMINED USING MISSOURI CHARTS AND HARE'S EQUATIONS.
5. CONCRETE REINFORCED STORMWATER PITS AS REQUIRED BY COUNCIL. REFER TO CAMDEN COUNCIL ENGINEERING DESIGN SPECIFICATION AND STANDARD DRAWINGS - SD12, SD13 AND SD14.
6. PITS DEEPER THAN 2.0m ARE TO BE STRUCTURALLY DESIGNED.
7. CONCRETE 32MPa COMPRESSIVE STRENGTH AT 28 DAYS.
8. PIT BLOCKAGE FACTORS
   PITS ON GRADE:
   0% (5YR)
   20% (100YR)
   PITS ON SAG:
   50% (5YR)
   50% (100YR)

LAND USE:

ROAD- 90% IMPERVIOUS
ROAD & LOT - VARIABLE (80-85%) IMPERVIOUS
RESIDENTIAL LOT - 75% IMPERVIOUS
UPSTREAM (UNDEVELOPED) - 50% IMPERVIOUS
UNLESS NOTED OTHERWISE

PIT TYPE:

1. G.G.P. - GRATED GULLY PIT
2. G.S.I.P. - GRATED SURFACE INLET PIT
3. J.P. - JUNCTION PIT
4. H.W. - HEADWALL
5. R.S.I.P. - RAISED SURFACE INLET PIT
6. IAD - INTERALLOTMENT DRAINAGE PIT



PLAN VIEW
TYPICAL STACKED ROCK HEADWALL
N.T.S.

ROCK SCOUR PROTECTION DIMENSIONS TABLE

PIT NAME	PIPE DIAMETER (mm)	OUTLET VELOCITY (m/s)	MINIMUM LENGTH (L) (m)	WIDTH OF DISSIPATOR HEADWALL END (W) (m)		MEAN ROCK SIZE D50 (mm)*	MINIMUM THICKNESS (mm)
03\02	750	3.03	3	1.4	2.0	200	360
01\14	525	2.35	3	1.1	1.7	200	360
02\04	600	1.57	3	1.2	1.8	200	360
23\03	750	0.92	3	1.4	2.0	200	360
25\02	450	1.07	3	1.100	1.7	200	360

CAMDEN COUNCIL
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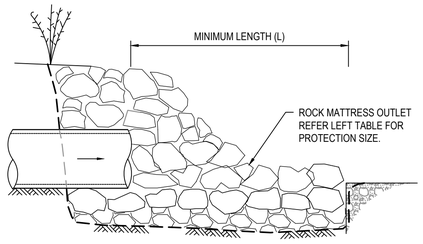
APPROVAL

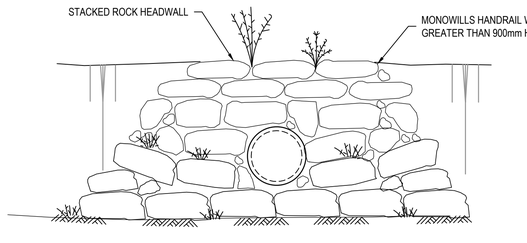
19/03/2026

SUBDIVISION WORKS CERTIFICATE

DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1



SECTION 1
N.T.S.



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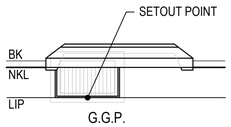
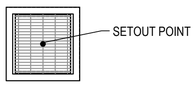
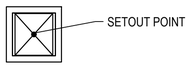


G.G.P.

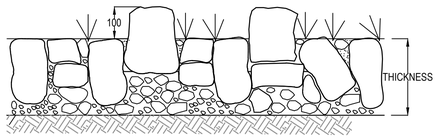


G.S.I.P.

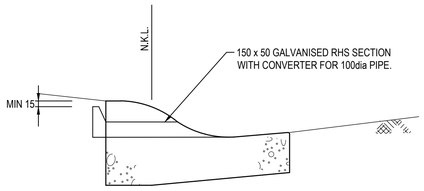


JUNCTION PIT

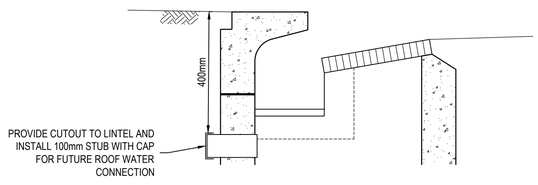
PIT SETOUT POINTS
N.T.S



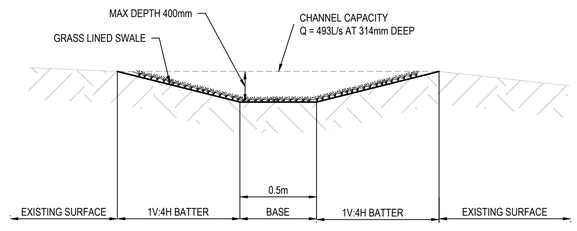
RIPRAP DETAIL
N.T.S



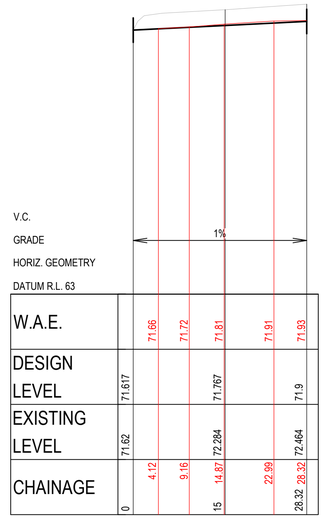
TYPICAL ROOF WATER CONNECTION
WITH KERB (RK)
SCALE 1:10



ROOF WATER CONNECTION
TO REAR OF LINTEL
SCALE 1:10



TYPICAL SWALE SECTION DETAIL
SCALE 1:20



W.A.E.		71.66	71.72	71.81	71.91	71.93
DESIGN LEVEL	71.617			71.767		71.9
EXISTING LEVEL	71.62			72.284		72.464
CHAINAGE	0	4.12	9.16	14.87 15	22.99	28.32 28.32

LONGITUDINAL SECTION - SWALE 1
SCALE 1:500 (H)
SCALE 1:100 (V)

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026

REGISTERED SURVEYOR ID: 8890
ORION GROUP

SETOUT TABLE SWALE 1			
CHAINAGE	EASTING	NORTHING	BEARING
0	288520.651	6233948.078	128°53'35.61"
28.32	288542.693	6233930.296	128°53'35.61"

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	AP	AP	AP	4/11/2025	ISSUED FOR MOD APPLICATION
B	MG	DH	MP	MP	6/01/2025	ISSUED FOR SUBDIVISION WORKS CERTIFICATE
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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SCALE 1:100 (A1) SCALE 1:200 (A3)
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SCALE 1:20 (A1) SCALE 1:40 (A3)
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
SCALE 1:10 (A1) SCALE 1:20 (A3)

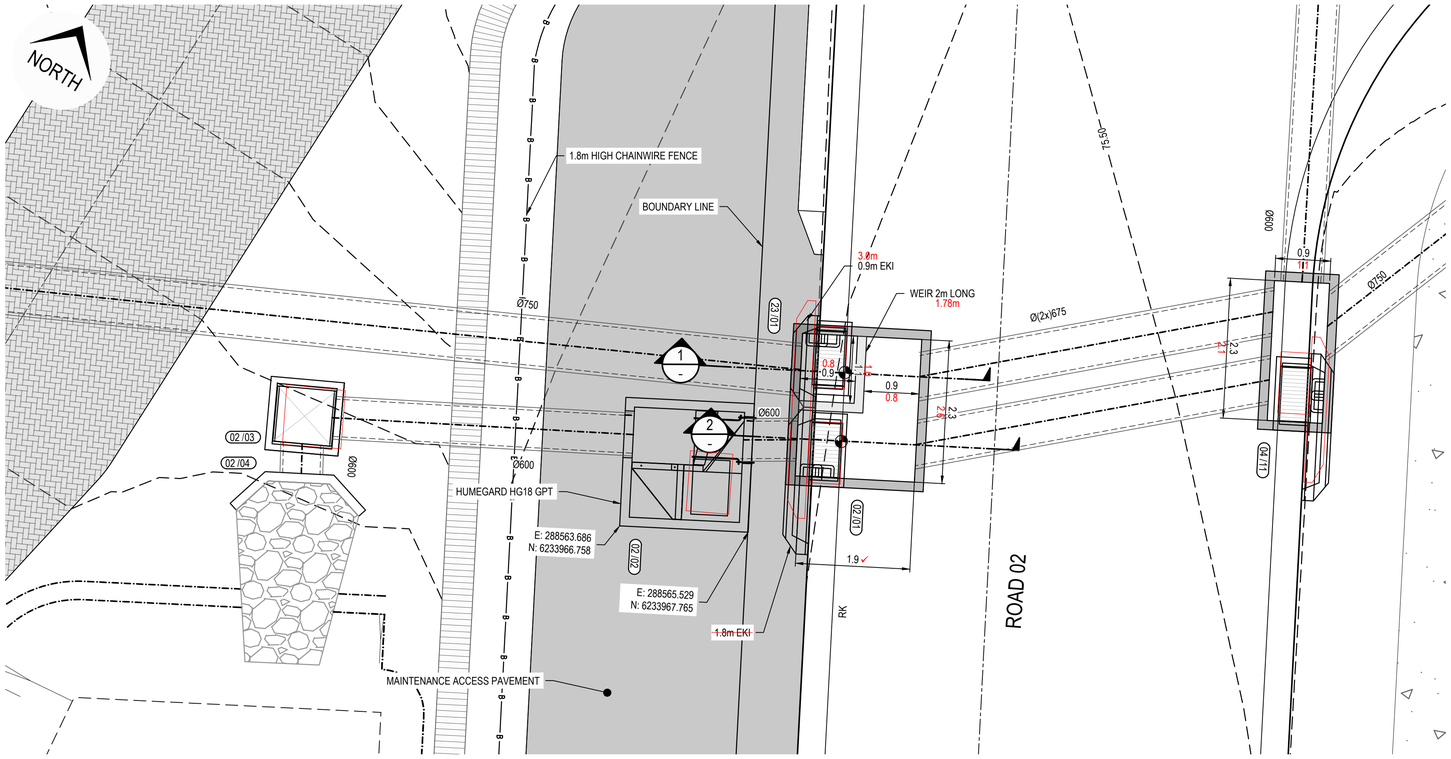
For: mirvac

By: ORION
ABN:25 604 069 981 **PO Box:**7936, BAULKHAM HILLS NSW 2153 **T:**(02) 8660 0035 **E:**info@theoriongroup.au

Project:
2 FRESHWATER DRIVE,
COBBITTY
(TRANCHE 3, STAGE 3a)
ROAD & DRAINAGE DESIGN

Title:
DRAINAGE DETAILS

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	535	C



GPT (02/02), SPLITTER PIT (02/01)
AND PIT 04/11 DETAIL PLAN
SCALE 1:50

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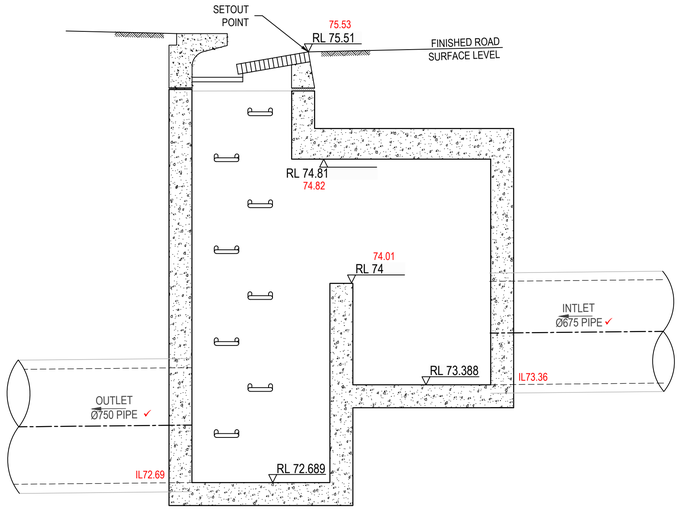
APPROVAL

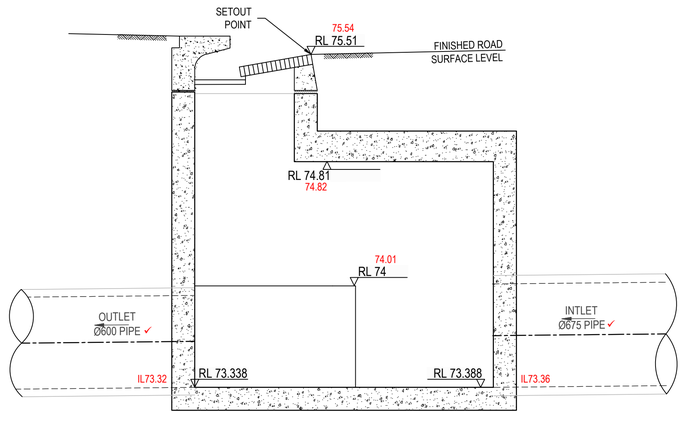
19/03/2026

SUBDIVISION WORKS CERTIFICATE

DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1



1 SECTION
SCALE 1:20



2 SECTION
SCALE 1:20

WORKS AS EXECUTED
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DATE: 20/04/2026
REGISTERED SURVEYOR ID: 8890
ORION GROUP

NOTE:
PITS SUBJECT TO STRUCTURAL DESIGN AND CERTIFICATION

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	AP	AP	AP	17/07/2025	ISSUED FOR MOD APPLICATION
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale:
0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
SCALE 1:50 (A1) SCALE 1:100 (A3)
0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0
SCALE 1:20 (A1) SCALE 1:40 (A3)

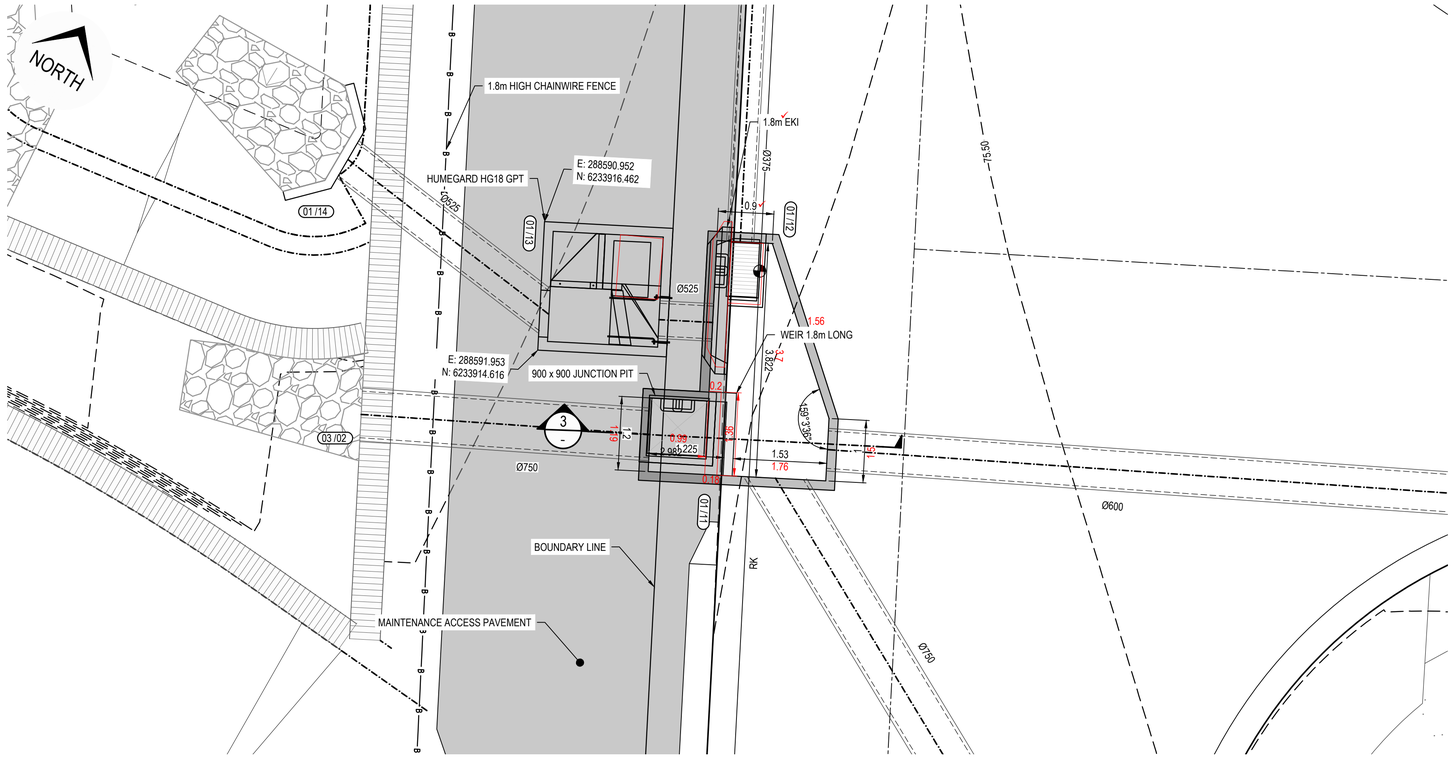
For: mirvac

By: ORION
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project:
2 FRESHWATER DRIVE,
COBBITTY
(TRANCHE 3, STAGE 3a)
ROAD & DRAINAGE DESIGN

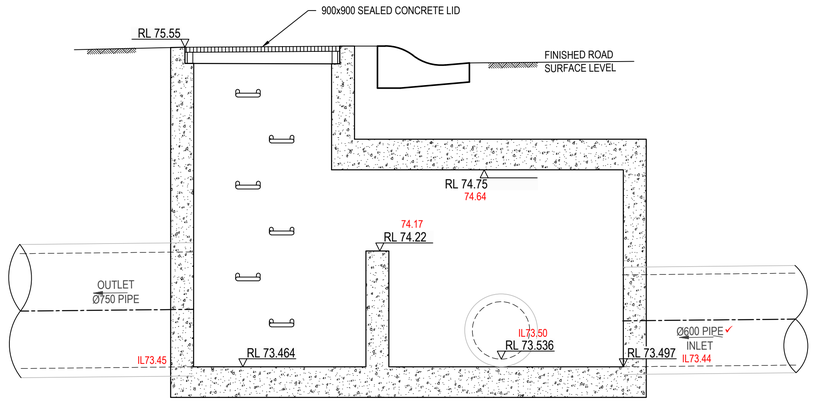
Title:
GPT SETOUT AND
PIT GEOMETRY PLAN
SHEET 01

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	550	B



GPT (01/13) AND SPLITTER PIT (01/11) DETAIL PLAN

SCALE 1:50



SECTION 3 -

SCALE 1:20

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19/03/2026

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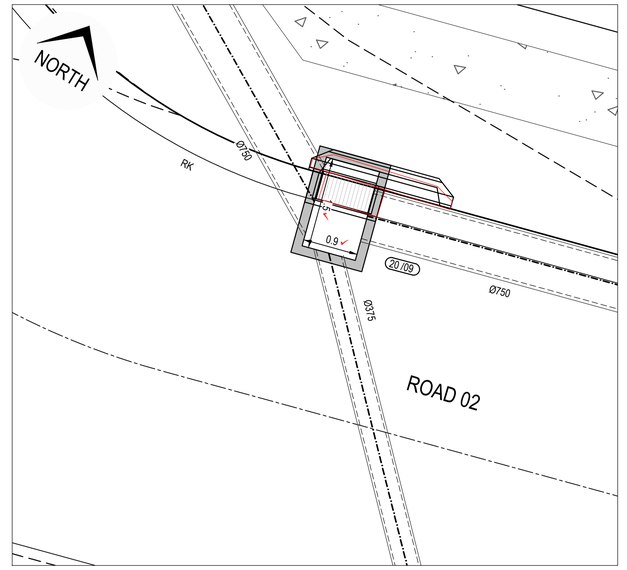
WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026

REGISTERED SURVEYOR ID: 8890
ORION GROUP



PIT 20/09 DETAIL PLAN

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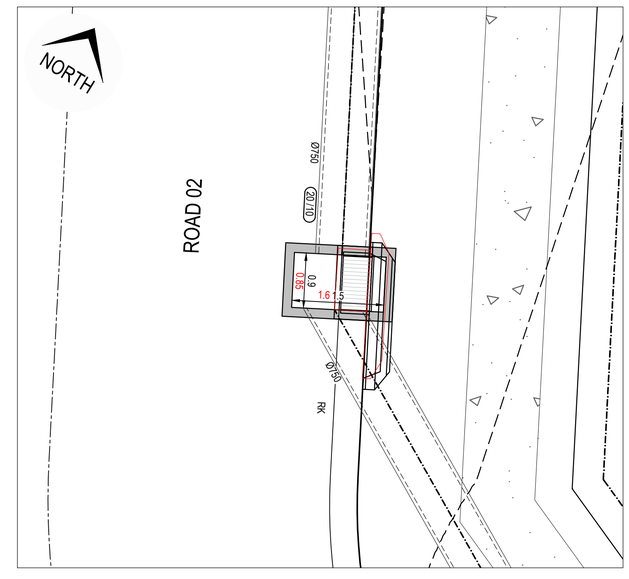

PIT 20/10 DETAIL PLAN

SCALE 1:50

NOTE:
PITS SUBJECT TO STRUCTURAL DESIGN AND CERTIFICATION

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	AP	AP	AP	17/07/2025	ISSUED FOR MOD APPLICATION
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale:
0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
SCALE 1:50 (A1) SCALE 1:100 (A3)

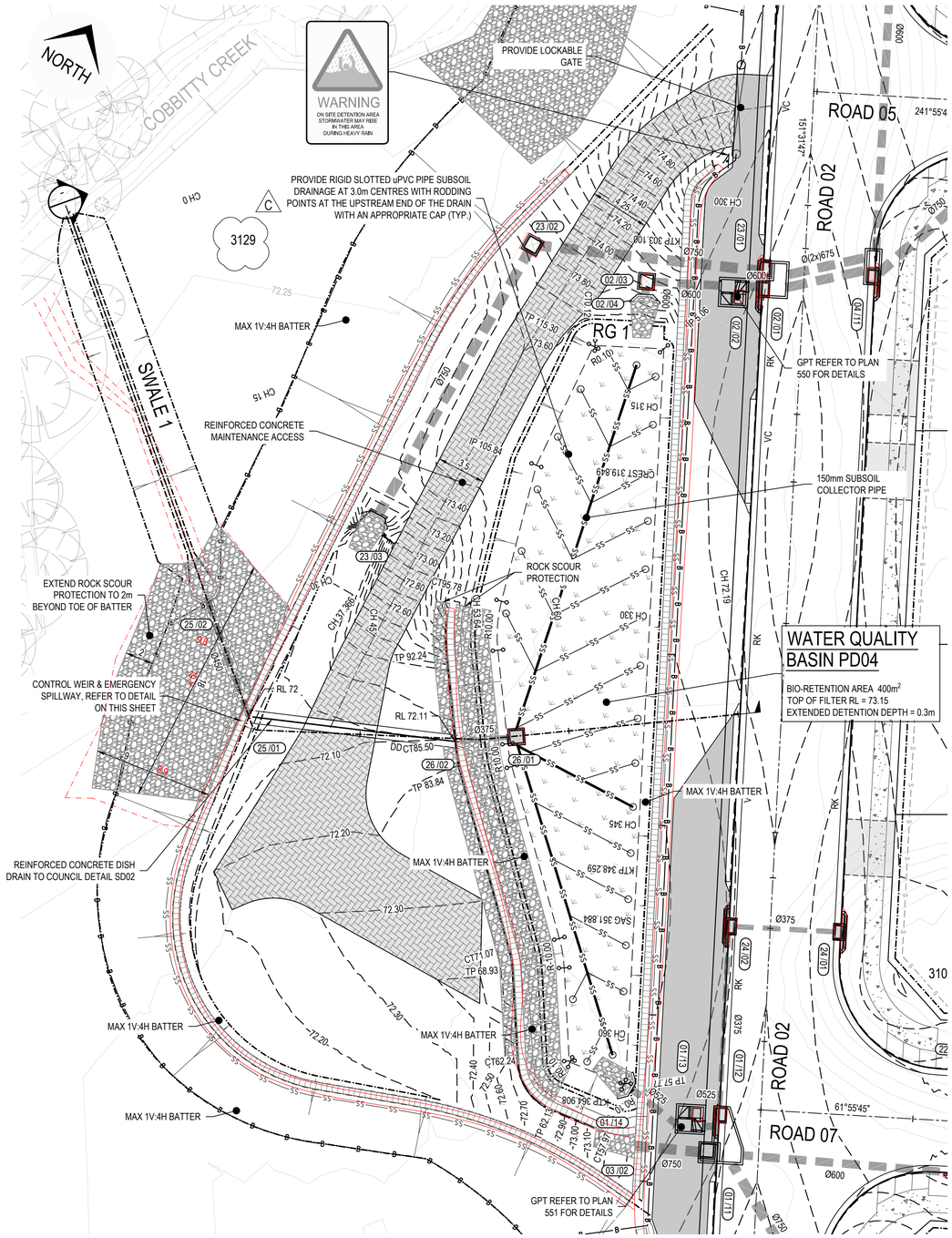
For: mirvac

By: ORION
ABN:25 604 069 981 **PO Box:**7936, BAULKHAM HILLS NSW 2153 **T:**(02) 8660 0035 **E:**info@theoriongroup.au

Project:
2 FRESHWATER DRIVE, COBBITTY
(TRANCHE 3, STAGE 3a)
ROAD & DRAINAGE DESIGN

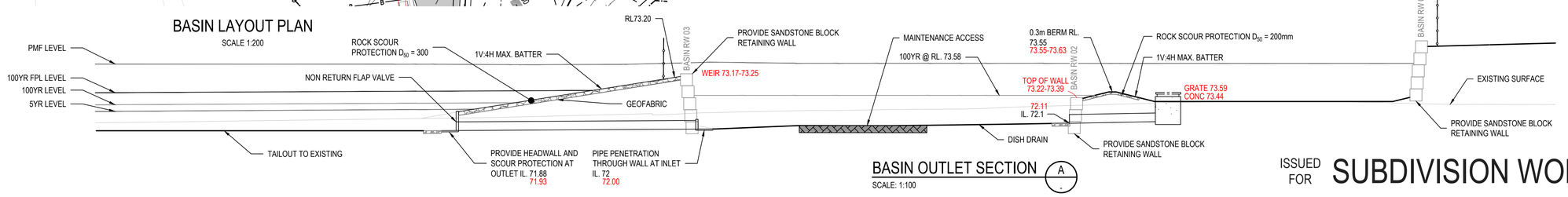
Title:
GPT SETOUT AND PIT GEOMETRY PLAN SHEET 02

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	551	B



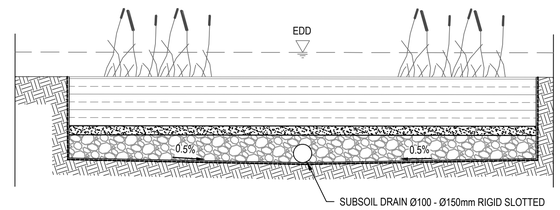
BASIN LAYOUT PLAN

SCALE 1:200



BASIN OUTLET SECTION

SCALE: 1:100



VEGETATE FILTER SURFACE WITH AT LEAST 50% OF PLANT SPECIES, REFER PLANTING GRID AND SCHEDULE ON SHEET 602.
REMAINING SPECIES MAY BE FOR AESTHETICS.

300mm EXTENDED DETENTION STORAGE

NOM. 500mm DEPTH, WELL GRADED SANDY LOAM, LIGHTLY COMPACTED

NOM. 150mm DEPTH, WELL GRADED COARSE WASHED SAND. 1.0 - 1.4mm TYP.

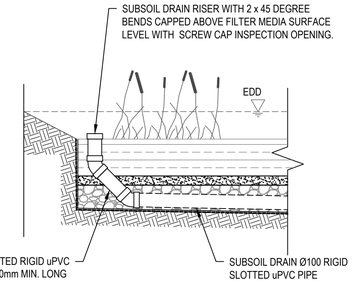
NOM. 200 - 350mm DEPTH AGGREGATE, 2.0 - 5.0mm TYP.

HDPE IMPERMEABILITY LINER. EDGES TO RETURN TO TOP OF DRAINAGE LAYER.

INSITU CLAY COMPACTED TO 98% STANDARD TO ENSURE LOW PERMEABILITY

RAINGARDEN MEDIA BED TYPICAL DETAIL

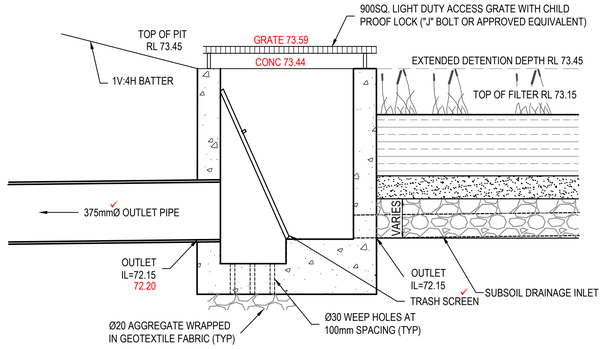
NOT TO SCALE



RISER TYPICAL DETAIL

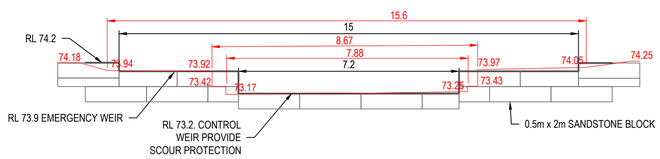
NOT TO SCALE

SETOUT TABLE RG 1					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	288557.56	6233959.66			
0.06	288557.55	6233959.73		0.1	0.117
0.12	288557.61	6233959.76	61°21'18.87"		
5.06	288561.95	6233962.13			
57.77	288587.08	6233915.79	151°31'47.00"		
57.87	288587.15	6233915.67		0.1	0.192
57.97	288587	6233915.65	261°20'15.34"		
62.13	288582.89	6233915.02	261°20'15.34"		
62.19	288582.83	6233915.01		0.1	0.112
62.24	288582.79	6233915.06	325°23'03.23"		
68.93	288578.99	6233920.56	325°23'03.23"		
70	288578.38	6233921.45		-10	2.139
71.07	288577.6	6233922.18	313°07'35.49"		
83.84	288568.27	6233930.92	313°07'35.49"		
84.67	288567.67	6233931.48		10	1.659
85.5	288567.16	6233932.14	322°37'44.71"		
92.24	288563.07	6233937.5	322°37'44.71"		
94.01	288561.98	6233938.92		10	3.54
95.78	288561.46	6233940.63	342°54'32.79"		
105.84	288558.5	6233950.25			



SUBSOIL COLLECTION PIT 26/01 SECTION

SCALE N.T.S.



CONTROL WEIR AND EMERGENCY SPILLWAY DETAIL

SCALE 1:10

CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL

19/03/2026

SUBDIVISION WORKS CERTIFICATE

DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026
REGISTERED SURVEYOR ID: 8890
ORION GROUP

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	AP	AP	AP	4/11/2025	ISSUED FOR MOD APPLICATION
B	MG	DH	MP	MP	6/01/2025	ISSUED FOR SUBDIVISION WORKS CERTIFICATE
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale:
0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 20.0
SCALE 1:200 (A1) SCALE 1:400 (A3)
0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100 (A1) SCALE 1:200 (A3)
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
SCALE 1:10 (A1) SCALE 1:20 (A3)

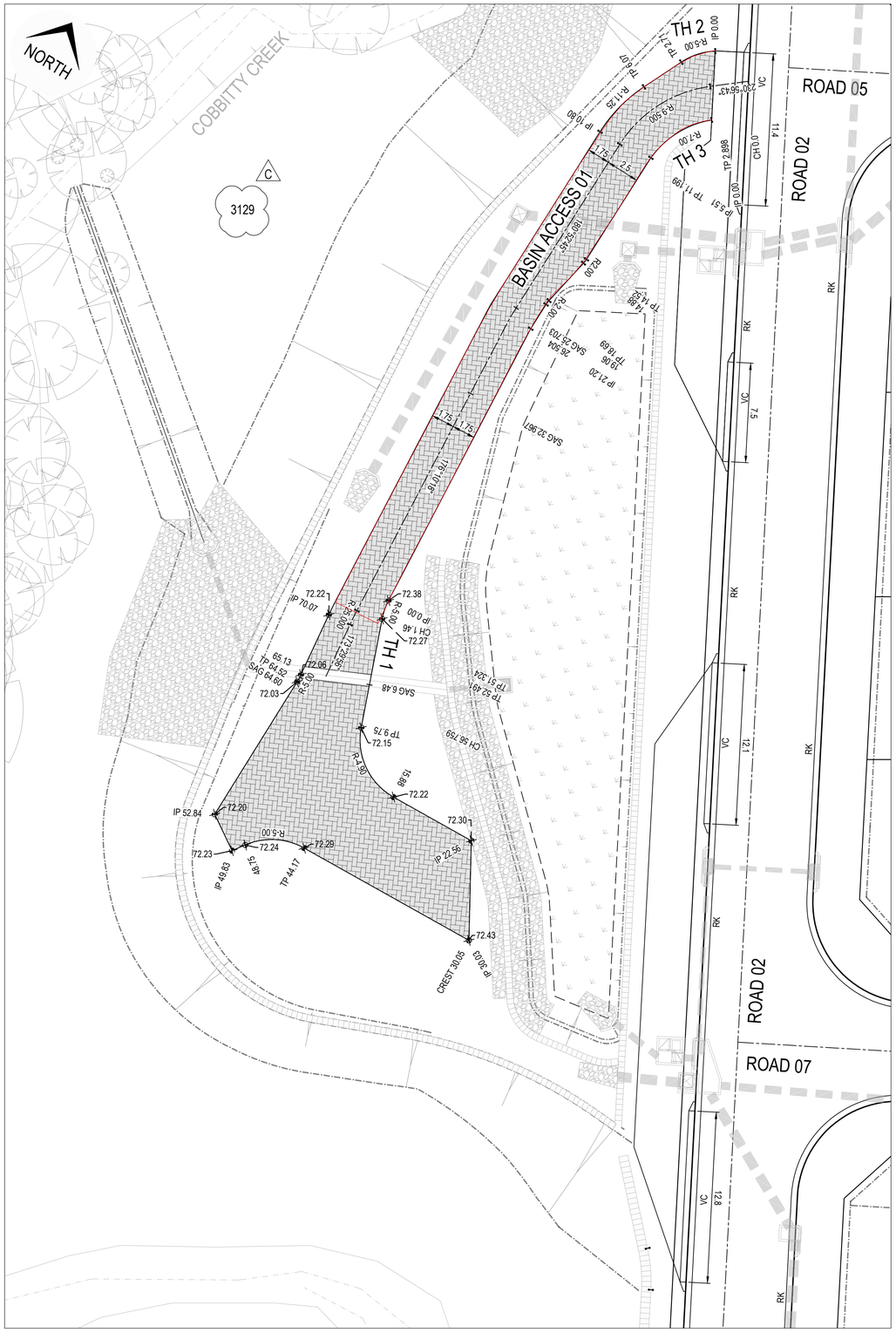
For: mirvac

By: ORION
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

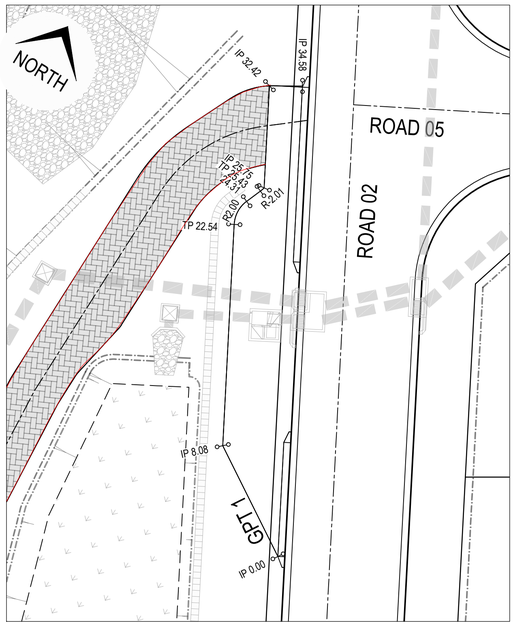
Project:
2 FRESHWATER DRIVE, COBBITTY
(TRANCHE 3, STAGE 3a)
ROAD & DRAINAGE DESIGN

Title:
BASIN PD04 PLAN, DETAILS AND SECTIONS

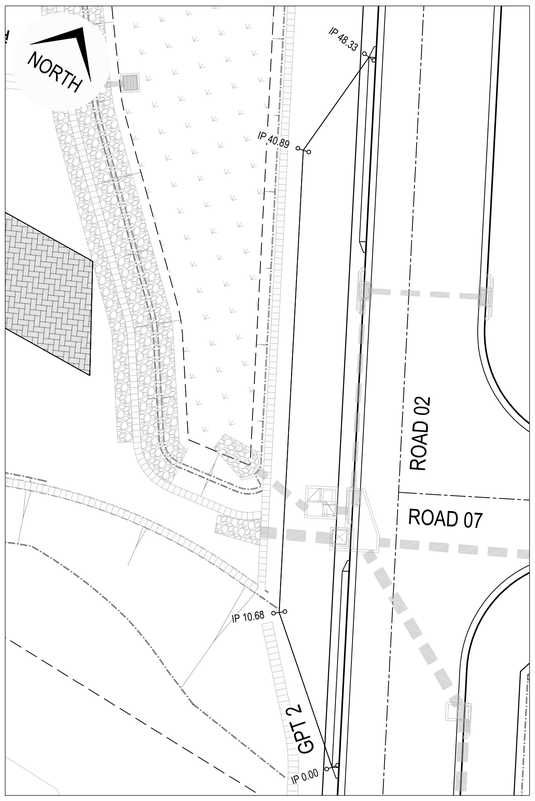
Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	600	C



BASIN PLAN
SCALE 1:200



GPT ACCESS 1 SETOUT PLAN
SCALE 1:200



GPT ACCESS 2 SETOUT PLAN
SCALE 1:200

NOTE:
REFER TO PLAN 602 FOR ACCESS TRACK LONG SECTION AND VERTICAL CLEARANCE CHECK.

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026
REGISTERED SURVEYOR ID: 8890
ORION GROUP

CAMDEN COUNCIL
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APPROVAL

19/03/2026

SUBDIVISION WORKS CERTIFICATE

DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

SETOUT TABLE TH 1

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	288556.75	6233933.79	176°10'18.45"		
0.73	288556.8	6233933.06		-5	1.46
1.46	288557.06	6233932.37	159°26'30.19"		
9.75	288559.97	6233924.6	159°26'30.19"		
12.82	288561.21	6233921.29		-4.9	6.127
15.88	288564.75	6233921.43	87°47'54.98"		
22.56	288571.43	6233921.68			
30.03	288575.16	6233915.22			
44.17	288561.03	6233914.68	267°47'58.38"		
46.46	288558.57	6233914.59		-5	4.574
48.75	288557.14	6233912.58	215°22'46.87"		
49.83	288556.52	6233911.7			
52.84	288553.99	6233913.35			
64.52	288554.08	6233925.03	0°25'55.93"		
64.83	288554.08	6233925.33		-5	0.605
65.13	288554.05	6233925.63	353°29'56.11"		
70.07	288553.49	6233930.55	353°29'56.11"		

SETOUT TABLE TH 2

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	288556.164	6233981.658	236°04'44.07"		
1.356	288555.011	6233980.883		-5	2.711
2.711	288554.423	6233979.623	205°00'37.04"		
6.066	288553.005	6233976.583	205°00'37.04"		
8.435	288551.988	6233974.404		-11.249	4.738
10.803	288551.951	6233972	180°52'42.67"		

SETOUT TABLE TH 3

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	288558.625	6233977.125	229°10'57.20"		
2.755	288556.425	6233975.225		-7	5.511
5.511	288556.218	6233972.325			
14.522	288556.069	6233963.315	180°56'47.85"		
14.702	288556.066	6233963.135		2	0.359
14.881	288556.031	6233962.958	191°13'48.89"		
18.694	288555.288	6233959.218	191°13'48.89"		
18.875	288555.253	6233959.041		-2	0.361
19.056	288555.25	6233958.859	180°52'45.83"		
21.2	288555.217	6233956.715	180°52'45.83"		

SETOUT TABLE BASIN ACCESS 01

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	288559.46	6233981.03	230°56'43.03"		
2.9	288557.21	6233979.2	230°56'43.03"		
7.05	288553.77	6233976.41		-9.5	8.301
11.2	288553.7	6233971.97	180°52'44.56"		
26.5	288553.47	6233956.67			
51.32	288555.12	6233931.9	176°10'18.45"		
51.91	288555.16	6233931.32		-25	1.166
52.49	288555.23	6233930.74	173°29'56.11"		
60.08	288556.09	6233923.21	173°29'56.11"		
63.55	288556.56	6233919.07		-5	6.939
67.01	288560.71	6233918.79	93°59'01.14"		
79.99	288573.65	6233917.88	93°59'01.14"		

SETOUT TABLE GPT 1

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	288572.667	6233955.741	302°02'49.89"		
8.077	288565.821	6233960.027			
22.541	288558.925	6233972.742	331°31'46.60"		
23.424	288558.475	6233973.572		2	1.765
24.306	288558.83	6233974.448	22°05'20.63"		
25.427	288559.252	6233975.486	22°05'20.63"		
25.589	288559.313	6233975.636		-2.006	0.324
25.751	288559.349	6233975.795			
32.424	288556.164	6233981.659			
34.578	288558.01	6233982.769	58°57'40.23"		

SETOUT TABLE GPT 2

CHAINAGE	EASTING	NORTHING	BEARING
0	288601.993	6233901.662	309°40'37.01"
10.679	288593.774	6233908.48	
40.891	288579.372	6233935.038	
48.334	288579.866	6233942.465	3°48'19.88"

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	AP	AP	AP	4/11/2025	ISSUED FOR MOD APPLICATION
B	MG	DH	MP	MP	6/01/2025	ISSUED FOR SUBDIVISION WORKS CERTIFICATE
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale:
0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 20.0
SCALE 1:200 (A1) SCALE 1:400 (A3)

For: mirvac

By: ORION
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project: 2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

Title: BASIN ACCESS SETOUT PLAN

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	601	C

NOTE:
CLEARANCE CHECK UNDERTAKEN WITH AUTOTURN SOFTWARE. CLEARANCE LIMIT SET TO 50mm.

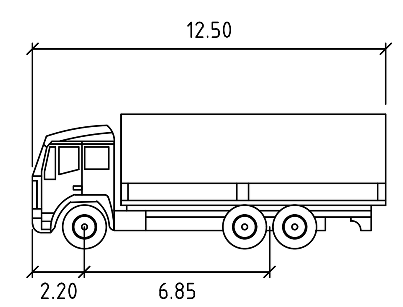
WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026
REGISTERED SURVEYOR ID: 8890
ORION GROUP

CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL
19/03/2026
SUBDIVISION WORKS CERTIFICATE
DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

CHAINAGE	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
0	75.37	75.483	72.547
0.6	75.47	75.471	72.527
2.898	75.44	75.379	72.47
3.1	75.43	75.366	72.47
5.6	75.21	75.16	72.463
11.199	74.61	74.581	72.526
14.703	74.22	74.22	72.593
15	74.19	74.189	72.602
20.703	73.77	73.755	72.694
26.504	73.62	73.6	72.72
26.703	73.62	73.6	72.718
30	73.61	73.6	72.697
32.967	73.62	73.6	72.718
36.967	73.52	73.5	72.741
40.967	73.21	73.2	72.706
45	72.79	72.797	72.69
45.941	72.71	72.703	72.7
50.941	72.30	72.301	72.718
51.324		72.278	72.716
51.48	72.25		
52.491		72.216	72.715
55.941		72.095	72.765
56.759		72.078	72.778

LONGITUDINAL SECTION - BASIN ACCESS 01

SCALE 1:100 (H)
SCALE 1:100 (V)



SU TRUCK

	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 36.6

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	AP	AP	AP	17/07/2025	ISSUED FOR MOD APPLICATION
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale: 0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100 (A1) SCALE 1:200 (A3)

For: mirvac

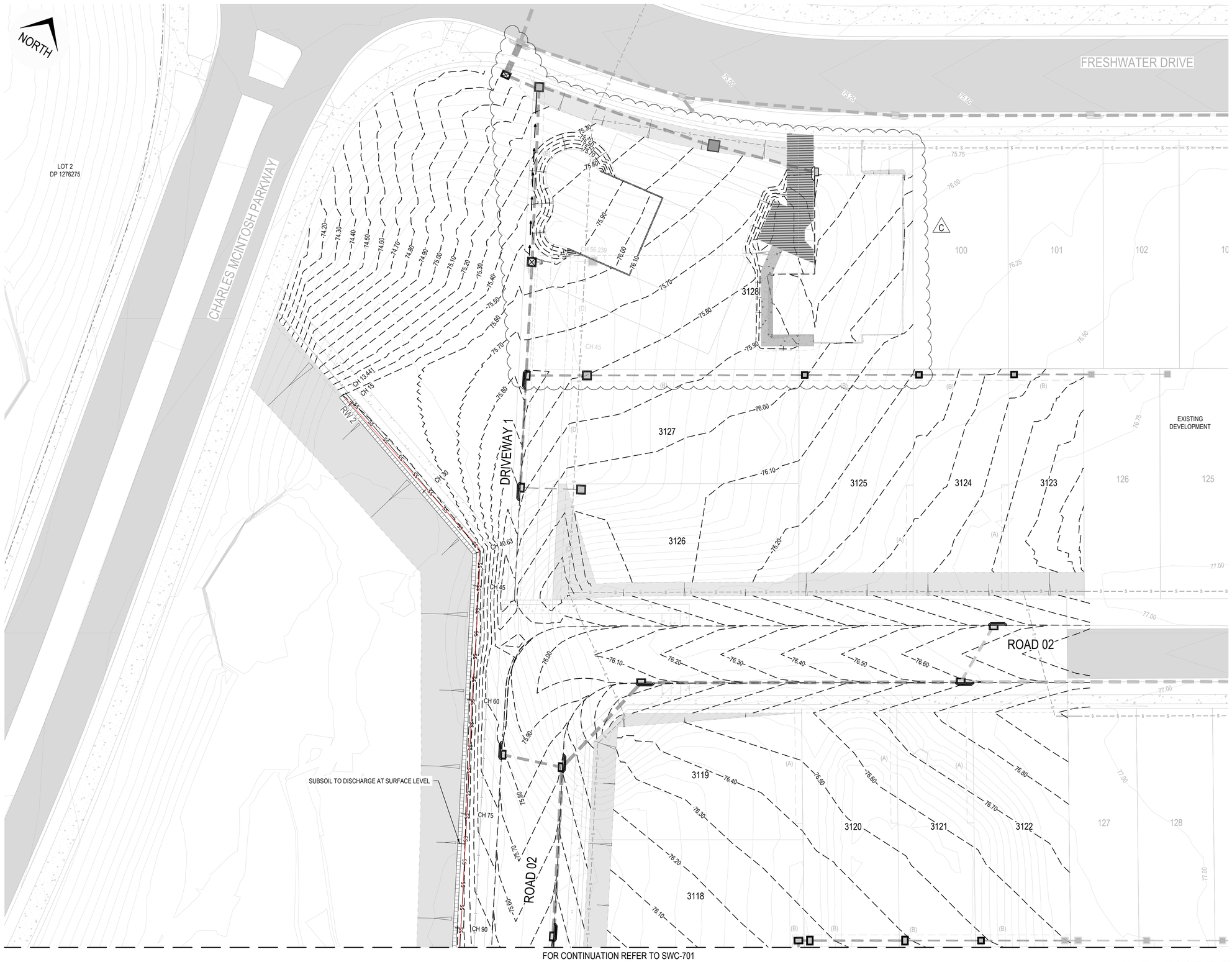
By: ORION

ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project:
2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

Title:
BASIN ACCESS SECTIONS

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	602	B



LEGEND

CONCRETE SLEEPER RETAINING WALL	
FUTURE CONCRETE SLEEPER RETAINING WALL	
SANDSTONE BLOCK WALL	
MAX 1V:4H BATTER	
MAX 1V:6H BATTER	
MAX 1V:10H BATTER	

UTILITIES SHOWN ARE DIAGRAMMATIC ONLY AND MAY NOT INCLUDE ALL SERVICES WITHIN THE LIMIT OF WORKS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, LOCATE AND AVOID DAMAGE TO THEM AS SPECIFIED BY EACH UTILITIES EXCAVATION GUIDE LINES/STANDARDS.

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026
REGISTERED SURVEYOR ID: 8890
ORION GROUP

CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL

19/03/2026

SUBDIVISION WORKS CERTIFICATE

DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
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Scale:
0 2.5 5 7.5 10 12.5 15 17.5 20 22.5 25
SCALE 1:250 (A1) SCALE 1:500 (A3)

For: mirvac

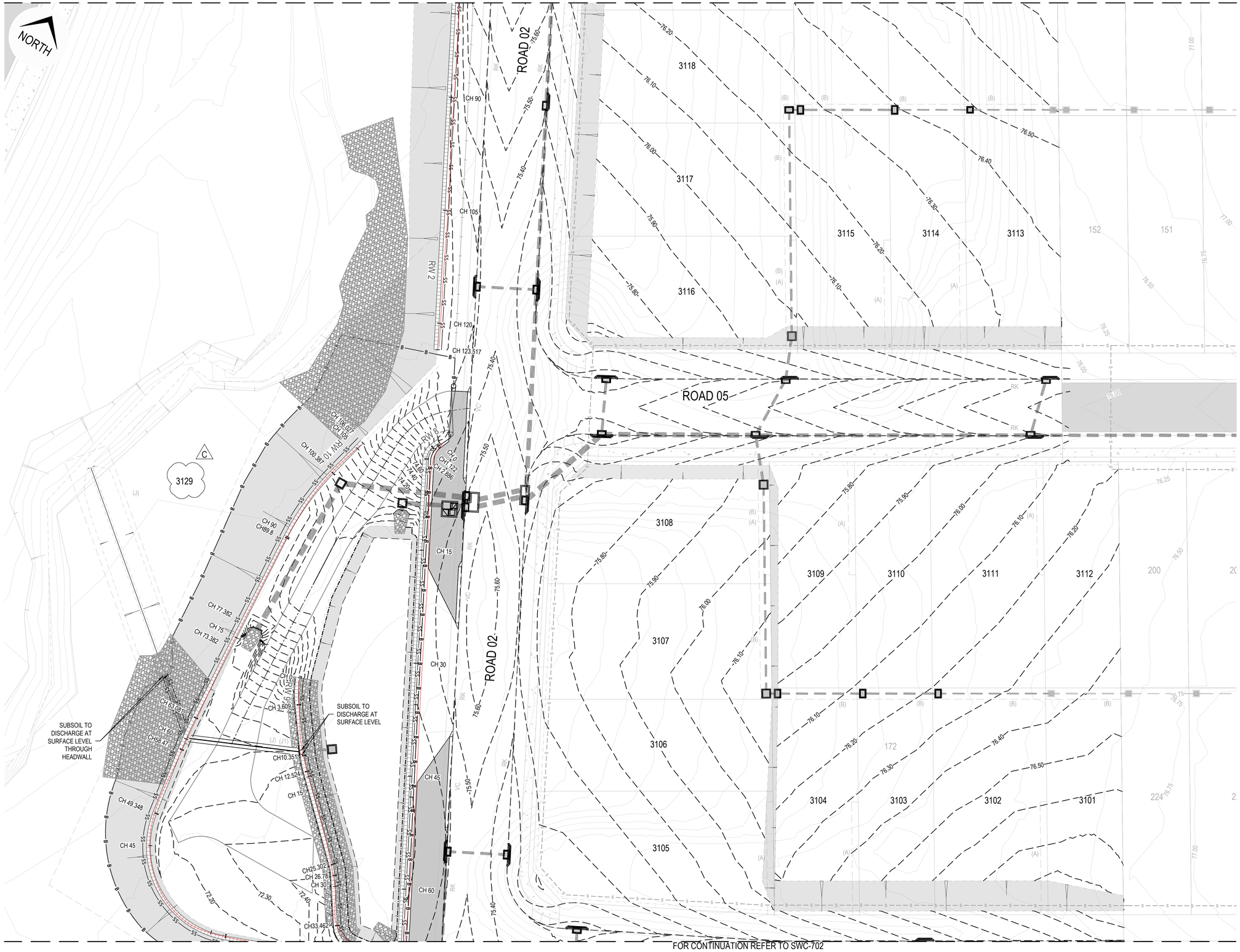
By: ORION
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project:
2 FRESHWATER DRIVE,
COBBITTY
(TRANCHE 3, STAGE 3a)
ROAD & DRAINAGE DESIGN

Title:
RETAINING WALL PLAN
SHEET 01

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	700	C

FOR CONTINUATION REFER TO SWC-700



FOR CONTINUATION REFER TO SWC-702

LEGEND

CONCRETE SLEEPER RETAINING WALL	
FUTURE CONCRETE SLEEPER RETAINING WALL	
SANDSTONE BLOCK WALL	
MAX 1V:4H BATTER	
MAX 1V:6H BATTER	
MAX 1V:10H BATTER	

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DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	AP	AP	AP	4/11/2025	ISSUED FOR MOD APPLICATION
B	MG	DH	MP	MP	6/01/2025	ISSUED FOR SUBDIVISION WORKS CERTIFICATE
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale:
0 2.5 5 7.5 10 12.5 15 17.5 20 22.5 25
SCALE 1:250 (A1) SCALE 1:500 (A3)

For: mirvac

By: ORION
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project: 2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

Title: RETAINING WALL PLAN SHEET 02

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	701	C

FOR CONTINUATION REFER TO SWC-701

NORTH

LEGEND

CONCRETE SLEEPER RETAINING WALL	
FUTURE CONCRETE SLEEPER RETAINING WALL	
SANDSTONE BLOCK WALL	
MAX 1V:4H BATTER	
MAX 1V:6H BATTER	
MAX 1V:10H BATTER	

ROAD 07

ROAD 02

ROAD 02

RW 11

RW 10

RW 3

RW 1

SUBSOIL TO DISCHARGE HEADWALL RW 9 SUBSOIL

SUBSOIL TO DISCHARGE AT SURFACE LEVEL

SUBSOIL TO CONNECT TO EXISTING PIT

CONNECT SUBSOIL TO PROPOSED PIT

3105

3140

3139

3138

3137

3136

3201

COBBITTY CREEK

COBBITTY ROAD

BM SSM 18301
R.L.73.93 (A.H.D.)

LOT 1
DP 270613

CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL

19/03/2026

SUBDIVISION WORKS CERTIFICATE

DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026

REGISTERED SURVEYOR ID: 8890
ORION GROUP

UTILITIES SHOWN ARE DIAGRAMMATIC ONLY AND MAY NOT INCLUDE ALL SERVICES WITHIN THE LIMIT OF WORKS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, LOCATE AND AVOID DAMAGE TO THEM AS SPECIFIED BY EACH UTILITIES EXCAVATION GUIDE LINES/STANDARDS.

FOR CONTINUATION REFER TO SWC-703

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	AP	AP	AP	4/11/2025	ISSUED FOR MOD APPLICATION
B	MG	DH	MP	MP	6/01/2025	ISSUED FOR SUBDIVISION WORKS CERTIFICATE
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale:
0 2.5 5 7.5 10 12.5 15 17.5 20 22.5 25
SCALE 1:250 (A1) SCALE 1:500 (A3)

For: mirvac

By: ORION

ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project: 2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

Title: RETAINING WALL PLAN SHEET 03

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	702	C

NORTH

FOR CONTINUATION REFER TO SWC-702

LEGEND

CONCRETE SLEEPER RETAINING WALL	
FUTURE CONCRETE SLEEPER RETAINING WALL	
SANDSTONE BLOCK WALL	
MAX 1V:4H BATTER	
MAX 1V:6H BATTER	
MAX 1V:10H BATTER	

ROAD 07

ROAD 02

CONNECT SUBSOIL TO EXISTING PIT

CONNECT SUBSOIL TO PIT

CONNECT SUBSOIL TO PROPOSED PIT

RW 1 RW 3 RW 4 RW 5 RW 6 RW 7

3137 3136 3135 3134 3201 3202 3301 3302 3204 3205 3132 3131

LOT 1 DP 101458

CAMDEN COUNCIL
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APPROVAL
19/08/2026
SUBDIVISION WORKS CERTIFICATE
DA/2023/399/1& DA/2024/134/1 SWC.16.16.2024.1343

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026
REGISTERED SURVEYOR ID: 8890
ORION GROUP

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ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
D	MG	DH	MP	MP	18/12/2025	ISSUED FOR SUBDIVISION WORKS CERTIFICATE
C	WP	AP	AP	AP	4/11/2025	ISSUED FOR MOD APPLICATION
B	MG	DH	MP	MP	6/01/2025	ISSUED FOR SUBDIVISION WORKS CERTIFICATE
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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SCALE 1:250 (A1) SCALE 1:500 (A3)

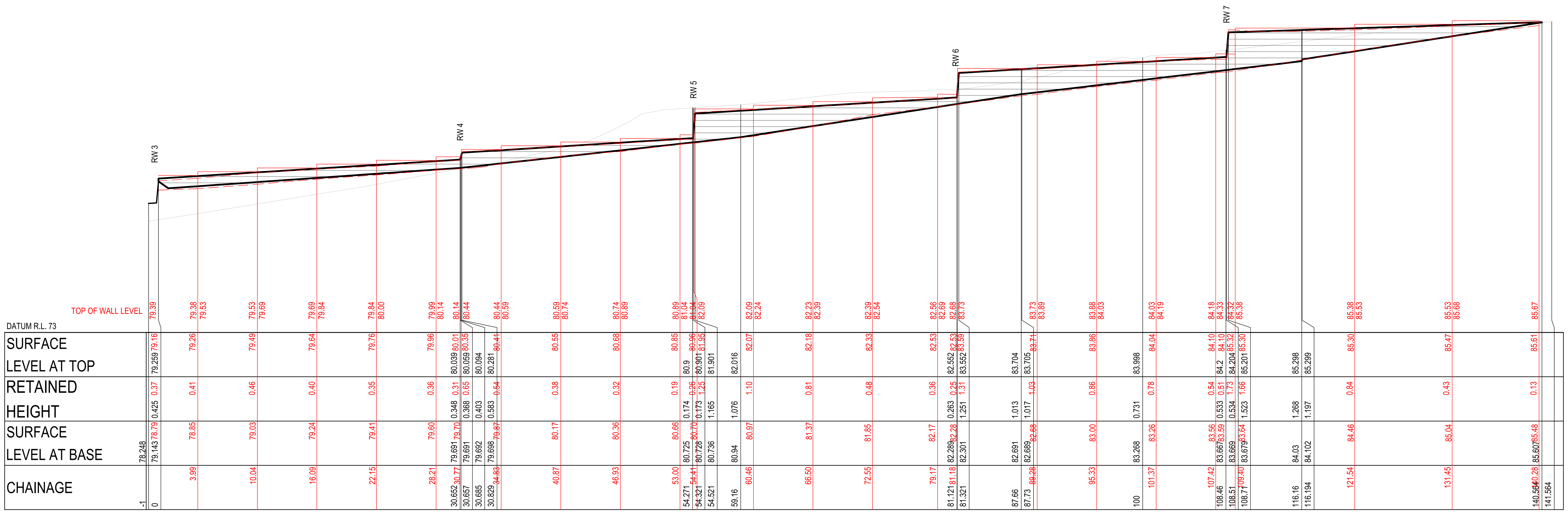
For: mirvac

By: ORION
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project: 2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

Title: RETAINING WALL PLAN SHEET 04

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	703	D



RETAINING WALL PROFILE - RW 1
SCALE 1:250 (H)
SCALE 1:100 (V)

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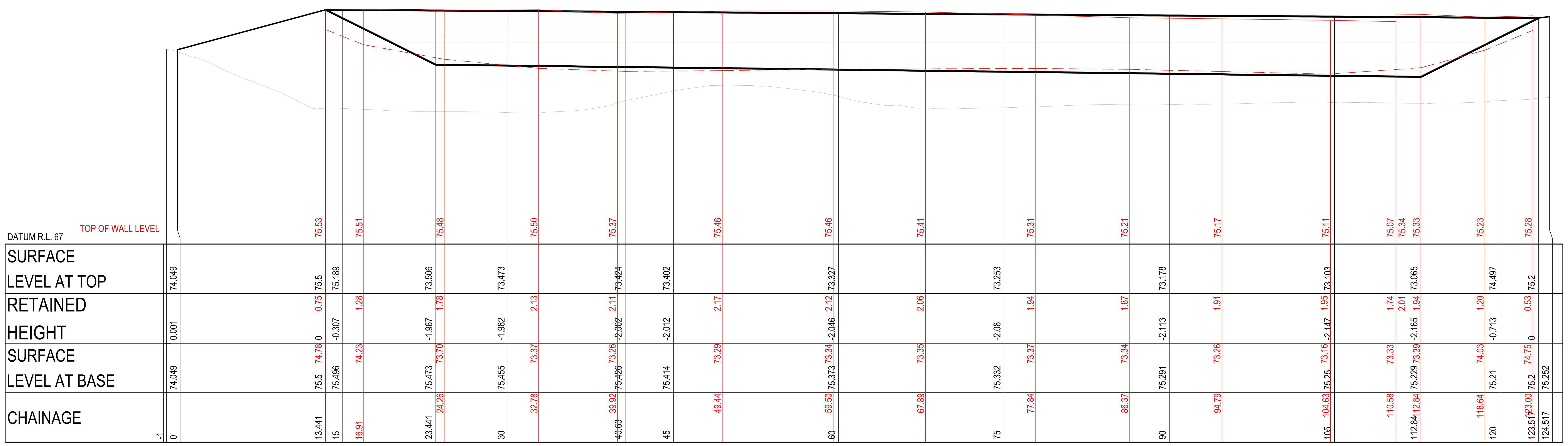
APPROVAL

19/03/2026

SUBDIVISION WORKS CERTIFICATE

DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1



RETAINING WALL PROFILE - RW 2
SCALE 1:250 (H)
SCALE 1:100 (V)

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026
REGISTERED SURVEYOR ID: 8890
ORION GROUP

NOTE:
- **ALL** RETAINING WALLS TO BE DESIGNED AND CERTIFIED BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER. REFER TO STRUCTURAL PLANS FOR DETAILS.
- WALL DESIGN TO ENSURE NO PIERS ARE POSITIONED OVER PROPOSED STORMWATER PIPES AT CROSSINGS.
- WALLS HAVE BEEN MODELED TO SUIT BENCH LOCATIONS, WALL STEPS TO STRUCTURAL DESIGN.
- WALL TYPES TO BE IN ACCORDANCE WITH THE 'MIRVAC LOT BENCHING SPECIFICATION'.

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	AP	AP	AP	4/11/2025	ISSUED FOR MOD APPLICATION
B	MG	DH	MP	MP	6/01/2025	ISSUED FOR SUBDIVISION WORKS CERTIFICATE
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale:
0 2.5 5 7.5 10 12.5 15 17.5 20 22.5 25
SCALE 1:250 (A1) SCALE 1:500 (A3)
0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100 (A1) SCALE 1:200 (A3)

For: mirvac

By: ORION

ABN:25 604 069 981 **PO Box:**7936, BAULKHAM HILLS NSW 2153 **T:**(02) 8660 0035 **E:**info@theoriongroup.au

SUSTAINABLE CERTIFICATION ISO 9001 ISO 45001 ISO 14001 — JAS-ANZ WWW.JAS-ANZ.ORG/REGISTER

Project:
2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

Title:
RETAINING WALL SECTIONS SHEET 01

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	710	C

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Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL

19/03/2026

SUBDIVISION WORKS CERTIFICATE

DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

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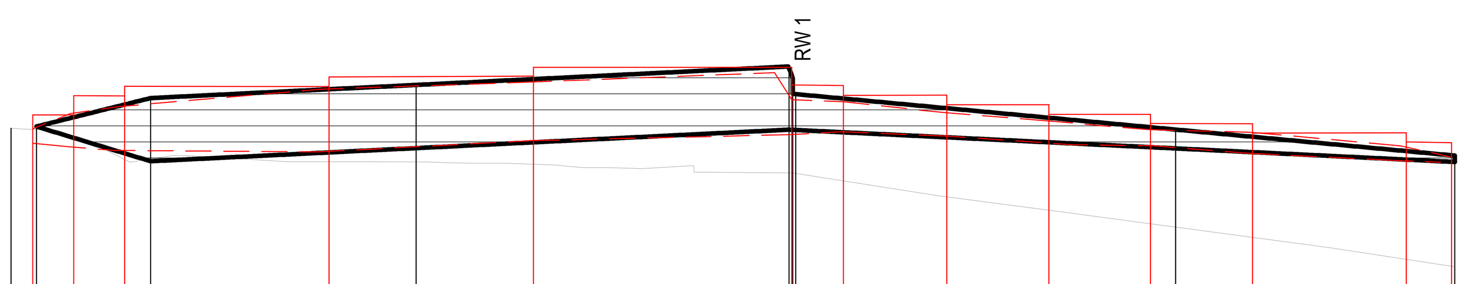
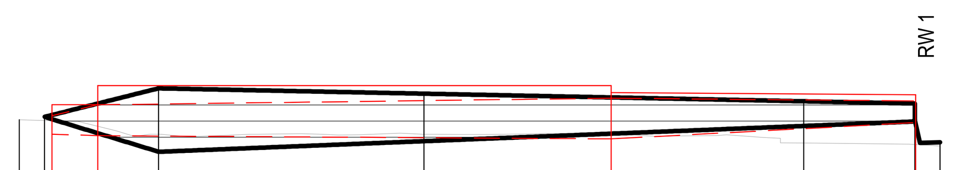


TOP OF WALL LEVEL
DATUM R.L. 71

CHAINAGE	TOP OF WALL LEVEL	SURFACE LEVEL AT TOP	RETAINED HEIGHT	SURFACE LEVEL AT BASE
-1				
0		78.31	0	78.31
-0.15	78.49	78.27	0.23	78.04
1.47	78.50 78.80	78.51	0.52	77.99
3.49	78.80 78.95	78.63	0.70	77.93
4.511		78.76	0.99	77.77
11.56	78.94 79.09	78.90	0.99	77.91
15		78.968	0.99	77.968
19.63	79.11 79.25	79.01	0.92	78.09
29.733		79.225	0.965	78.26
29.84	79.25	79.16	0.98	78.18
29.88		78.827	0.57	78.257
	78.97	78.73	0.55	
30		78.823	0.568	78.255
31.89	78.96 78.80	78.70	0.47	78.23
35.96	78.81 78.66	78.53	0.37	78.16
40.00	78.66 78.50	78.40	0.38	78.02
44.01	78.50 78.36	78.26	0.26	78.00
45		78.262	0.298	77.963
48.04	78.36 78.21	78.22	0.33	77.89
54.12	78.21 78.07	78.00	0.23	77.77
55.91	78.06	77.83	0.09	77.74
56.03		77.849	0.1	77.749

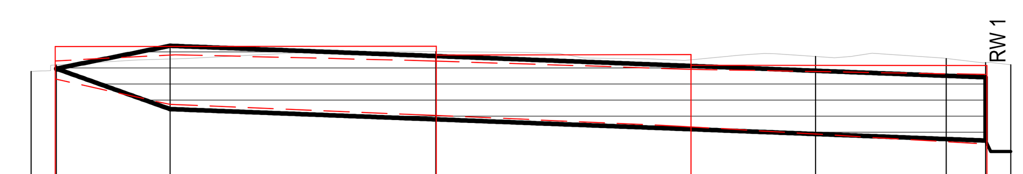
RETAINING WALL PROFILE - RW 3
SCALE 1:250 (H)
SCALE 1:100 (V)



TOP OF WALL LEVEL
DATUM R.L. 75

CHAINAGE	TOP OF WALL LEVEL	SURFACE LEVEL AT TOP	RETAINED HEIGHT	SURFACE LEVEL AT BASE
-1				
0		80.1	0	80.1
0.36	80.29	80.12	0.29	79.83
2.17	80.29 80.59	80.29	0.49	79.80
4.513		80.55	0.99	79.56
15		80.466	0.749	79.718
22.45	80.59 80.48	80.39	0.64	79.75
30		80.346	0.389	79.957
34.393		80.311	0.284	80.047
34.49	80.45	80.35	0.34	80.01
35.393				79.7

RETAINING WALL PROFILE - RW 4
SCALE 1:250 (H)
SCALE 1:100 (V)

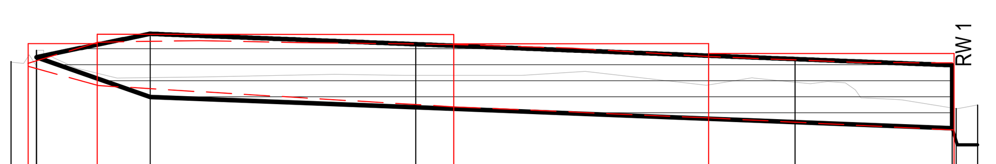


TOP OF WALL LEVEL
DATUM R.L. 76

CHAINAGE	TOP OF WALL LEVEL	SURFACE LEVEL AT TOP	RETAINED HEIGHT	SURFACE LEVEL AT BASE
-1				
0		82.04	0	82.04
-0.04	82.39	82.16	0.28	81.88
4.497		82.4	0.99	81.41
		82.26	0.79	81.47
15		82.238	0.99	81.248
15.02	82.39 82.25	82.16	0.85	81.31
25.09	82.26 82.09	82.03	0.90	81.13
30		82.006	0.99	81.016
35.171		81.926	0.99	80.936
36.721		81.902	0.99	80.912
36.78	82.09	81.95	0.99	80.96
37.721				80.728

RETAINING WALL PROFILE - RW 5
SCALE 1:250 (H)
SCALE 1:100 (V)

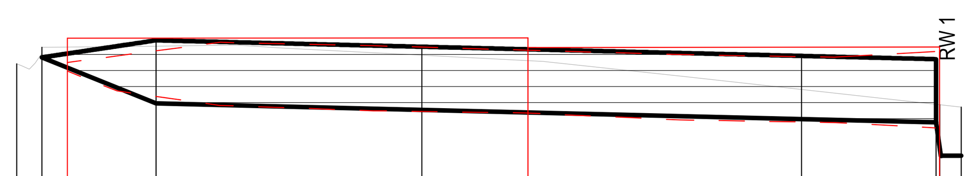
C



TOP OF WALL LEVEL
DATUM R.L. 78

CHAINAGE	TOP OF WALL LEVEL	SURFACE LEVEL AT TOP	RETAINED HEIGHT	SURFACE LEVEL AT BASE
-1				
-0.001				83.677
-0.33	83.89	83.58	0.05	83.53
0		83.681	0.003	83.678
2.41	83.89 84.04	83.92	0.69	83.23
4.496		84.05	0.99	83.06
15		83.885	0.99	82.895
16.50	84.04 83.89	83.88	0.99	82.89
26.58	83.89 83.74	83.69	0.98	82.71
30		83.65	0.99	82.66
36.212		83.552	0.99	82.562
36.28	83.73	83.59	1.06	82.53
36.362				82.355
37.212				82.289

RETAINING WALL PROFILE - RW 6
SCALE 1:250 (H)
SCALE 1:100 (V)



TOP OF WALL LEVEL
DATUM R.L. 79

CHAINAGE	TOP OF WALL LEVEL	SURFACE LEVEL AT TOP	RETAINED HEIGHT	SURFACE LEVEL AT BASE
-1				
0		85.23	0	85.23
1.00	85.53	85.15	0.14	85.01
4.501		85.5	0.99	84.51
		85.46	0.99	84.47
15		85.398	0.99	84.408
19.20	85.53 85.38	85.34	0.99	84.35
30		85.253	0.99	84.263
35.306		85.201	0.99	84.211
35.45	85.39	85.32	1.21	84.11
35.456				83.802
36.306				83.669

RETAINING WALL PROFILE - RW 7
SCALE 1:250 (H)
SCALE 1:100 (V)

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 20/04/2026
REGISTERED SURVEYOR ID: 8890
ORION GROUP

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	AP	AP	AP	4/11/2025	ISSUED FOR MOD APPLICATION
B	MG	DH	MP	MP	6/01/2025	ISSUED FOR SUBDIVISION WORKS CERTIFICATE
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale:
0 2.5 5 7.5 10 12.5 15 17.5 20 22.5 25
SCALE 1:250 (A1) SCALE 1:500 (A3)
0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100 (A1) SCALE 1:200 (A3)

For: mirvac

By: ORION

ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project:
2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

Title:
RETAINING WALL SECTIONS SHEET 02

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	711	C

CAMDEN COUNCIL
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APPROVAL

19/03/2026

SUBDIVISION WORKS CERTIFICATE

DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

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DATE: 20/04/2026
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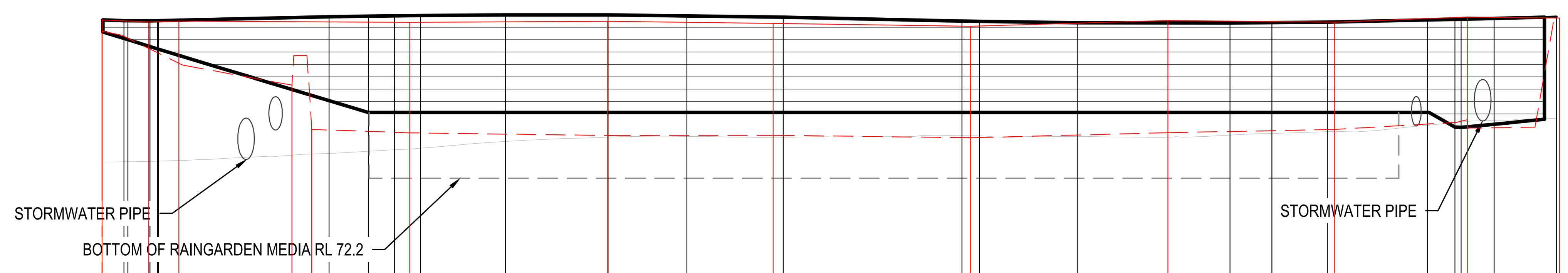
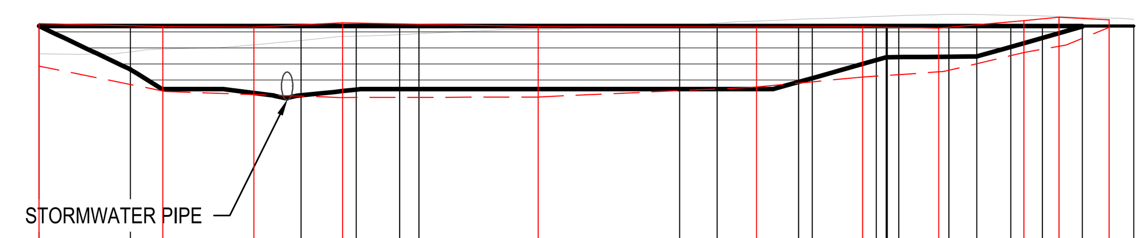


DATUM R.L. 68

CHAINAGE	SURFACE LEVEL AT BOTTOM	RETAINED HEIGHT	SURFACE LEVEL AT TOP	TOP OF WALL LEVEL
0			75.451	
(WAE)	75.22	0.23		75.45
1.122	75.071	0.365	75.436	
(WAE)	75.14			
1.328	75.045	0.389	75.301	
2.39 (WAE)	74.69	0.72		75.41
2.461	74.903	0.527	75.379	
2.85	74.853	0.58	75.433	
2.886	74.849	0.585	75.432	
3.94 (WAE)	74.52	0.9		75.42
9.74 (WAE)	74.11	1.3		
10.76 (WAE)	74.72 / 73.20	2.21		75.41
11.648	73.792	1.722	75.514	
13.668	73.55	1.976	75.529	
15	73.55	1.984	75.535	
15.78 (WAE)	73.13	2.27		75.40
16.331	73.55	1.992	75.542	
20.69	73.55	2.005	75.555	
25.93 (WAE)	73.08	2.34		75.42
25.949	73.55	2.001	75.551	
30	73.55	1.98	75.537	
34.41 (WAE)	73.08	2.3		75.38
34.94	73.55	1.955	75.505	
44.106	73.55	1.874	75.424	
44.53 (WAE)	73.03	2.29		75.32
45	73.55	1.869	75.418	
50.022	73.55	1.841	75.391	
54.66 (WAE)	73.14	2.3		75.44
57.851	73.55	1.836	75.386	
60	73.55	1.845	75.395	
62.851	73.55	1.856	75.406	
63.21 (WAE)	73.20	2.2		75.40
67.98	73.55		75.444	
69.385	73.25		75.458	
69.702	73.244		75.461	
70.02 (WAE)	73.35 / 73.40 / 73.23	2.16 / 2.11 / 2.28		75.51
71.402	73.31		75.479	
74.59			75.466	
74.75 (WAE)	73.25 / 75.39	2.24 / 0.1		75.49

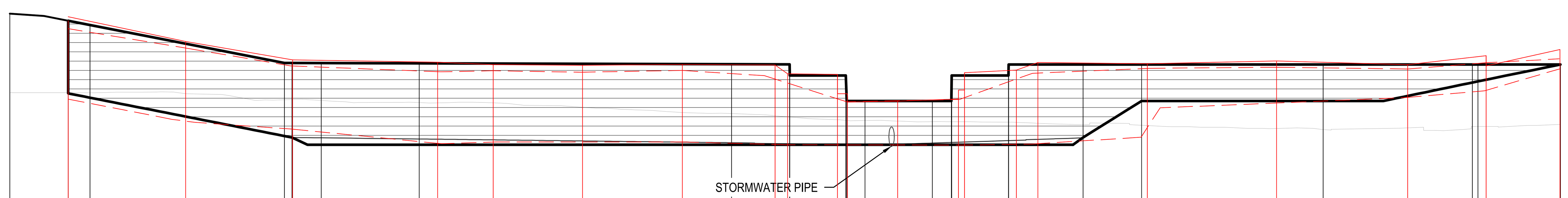
RETAINING WALL PROFILE - RW 8
SCALE 1:250 (H)
SCALE 1:100 (V)



DATUM R.L. 68

CHAINAGE	SURFACE LEVEL AT BOTTOM	RETAINED HEIGHT	SURFACE LEVEL AT TOP	TOP OF WALL LEVEL
0	73.25	0	73.25	
(WAE)	72.62	0.67		73.29
3.609	72.561	0.689	73.25	
4.89 (WAE)	72.21	1.03		73.24
8.48 (WAE)				73.23
10.351	72.154	1.096	73.25	
11.99 (WAE)	72.12	1.18		73.30
12.524	72.241	1.009	73.25	
14.244	72.25	1	73.25	
15	72.25	1	73.25	
19.72 (WAE)	72.13	1.11		73.24
25.302	72.25	1	73.25	
26.78	72.25	1	73.25	
28.34 (WAE)	72.28	0.95		73.23
30	72.364	0.886	73.25	
30.544	72.425	0.825	73.25	
32.53 (WAE)	72.44	0.8		73.24
33.066	72.711	0.539	73.25	
33.462	72.756	0.494	73.25	
33.503	72.756	0.494	73.25	
35.54 (WAE)	72.53	0.69		73.22
33.959	72.757	0.493	73.25	
35.942	72.764	0.486	73.25	
37.039	72.768	0.482	73.25	
38.90 (WAE)	72.83	0.5		73.33
38.379	72.92	0.33	73.25	
40.29 (WAE)	72.95	0.44		73.39
39.628	73.061	0.189	73.25	
41.203	73.24	0.01	73.25	
42.27 (WAE)	73.23	0.12		73.35
43.24			73.25	

RETAINING WALL PROFILE - RW 9
SCALE 1:250 (H)
SCALE 1:100 (V)



DATUM R.L. 67

CHAINAGE	SURFACE LEVEL AT BOTTOM	RETAINED HEIGHT	SURFACE LEVEL AT TOP	TOP OF WALL LEVEL
0			75.59	
4			75.417	
(WAE)	73.25	1.93	75.18	75.39
5.489	73.289	1.992	75.289	
12.03 (WAE)	72.65	1.98	74.63	74.83
18.782	72.241	2	74.241	
19.34 (WAE)	72.43	1.73	74.16	74.32
19.291	72.2	2.039	74.2	
21.293	72.2	2.038	74.2	
27.994	72.2	2.031	74.2	
29.26 (WAE)	72.03	1.97	74.00	74.26
33.06 (WAE)	72.08	1.95	74.03	74.19
39.17 (WAE)	72.08	1.91	73.99	74.17
46.00 (WAE)	72.07	1.96	74.03	74.19
49.348	72.2	2.007	74.2	
52.34 (WAE)				74.18
53.19 (WAE)				73.94
53.319	72.19	2.013	74.203	
53.329	72.19	1.71	73.9	
56.60 (WAE)				73.92
57.159	72.19	1.71	73.9	
57.28 (WAE)	72.00	1.17	73.17	73.17
57.229	72.19	1.01	73.2	
58.47	72.19	1.01	73.2	
60.72 (WAE)				73.19
63.081	72.19	1.01	73.2	
64.382	72.19	1.01	73.2	
64.88 (WAE)	71.99	1.25	73.24	73.25
64.397	72.19	1.71	73.9	
65.29 (WAE)				73.97
68.283	72.19	1.71	73.9	
68.63 (WAE)				74.05
68.292	72.19	2.01	74.2	
70.31 (WAE)	72.02	1.94	73.96	74.25
73.382	72.2	2	74.2	
77.382	73.2	1	74.2	
77.79 (WAE)	72.20 / 73.01	1.89 / 1.08	74.09	74.22
86.63 (WAE)	73.14	0.98	74.12	74.30
89.8	73.2	1	74.2	
95.60 (WAE)	73.30	0.77	74.07	74.19
100	73.705	0.495	74.2	
100.387	73.737	0.463	74.2	
100.95 (WAE)	73.48	0.77	74.25	74.44
101.03 (WAE)				74.16
106.027			74.2	
106.00 (WAE)	74.08	0.27	74.35	74.61

RETAINING WALL PROFILE - RW 10
SCALE 1:250 (H)
SCALE 1:100 (V)

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	AP	AP	AP	17/07/2025	ISSUED FOR MOD APPLICATION
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale:
0 2.5 5 7.5 10 12.5 15 17.5 20 22.5 25
SCALE 1:250 (A1) SCALE 1:500 (A3)
0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100 (A1) SCALE 1:200 (A3)

For: mirvac

By: ORION

ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

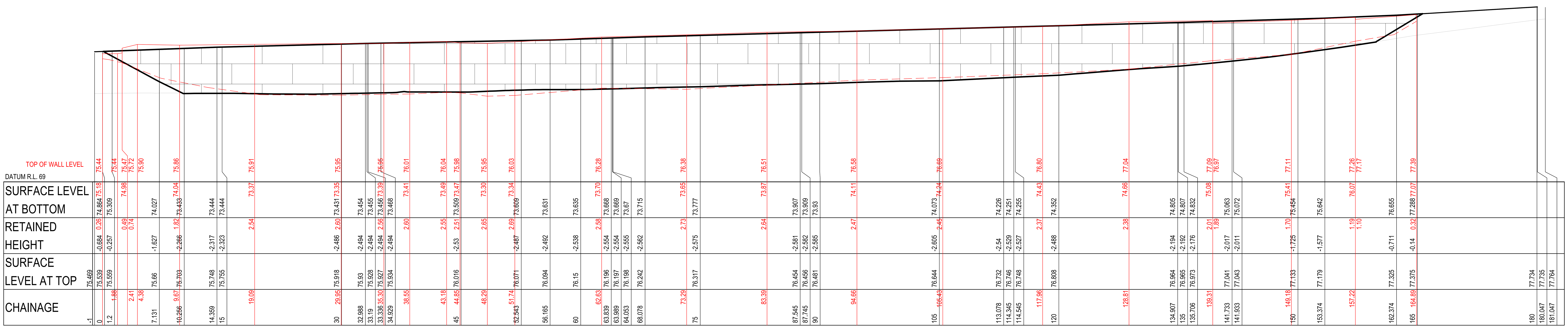
Project:
2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

Title:
RETAINING WALL SECTIONS SHEET 03

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	712	B

NOTE:

- **ALL** RETAINING WALLS TO BE DESIGNED AND CERTIFIED BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER. REFER TO STRUCTURAL PLANS FOR DETAILS.
- WALL DESIGN TO ENSURE NO PIERS ARE POSITIONED OVER PROPOSED STORMWATER PIPES AT CROSSINGS.
- WALLS HAVE BEEN MODELED TO SUIT BENCH LOCATIONS, WALL STEPS TO STRUCTURAL DESIGN.
- WALL TYPES TO BE IN ACCORDANCE WITH THE 'MIRVAC LOT BENCHING SPECIFICATION'.



RETAINING WALL PROFILE - RW 11

SCALE 1:250 (H)
SCALE 1:100 (V)

CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL

19/03/2026

SUBDIVISION WORKS CERTIFICATE

DA/2023/399/1 & DA/2024/134/1 SWC.16.16.2024.134.1

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	AP	AP	AP	4/11/2025	ISSUED FOR MOD APPLICATION
B	MG	DH	MP	MP	6/01/2025	ISSUED FOR SUBDIVISION WORKS CERTIFICATE
A	NS	DH	MP	MP	3/10/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

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Scale:
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SCALE 1:250 (A1) SCALE 1:500 (A3)
0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100 (A1) SCALE 1:200 (A3)

For: mirvac

By: ORION

ABN:25 604 069 981 **PO Box:**7936, BAULKHAM HILLS NSW 2153 **T:**(02) 8660 0035 **E:**info@theoriongroup.au

Project:
2 FRESHWATER DRIVE, COBBITTY (TRANCHE 3, STAGE 3a) ROAD & DRAINAGE DESIGN

Title:
RETAINING WALL SECTIONS SHEET 04

Project No.	Set No.	Milestone	Plan	Revision
23-0580	02	SWC	713	C