Prepared by:

ORION

CONSULT AUSTRALIA
Member Firm

Prepared for:

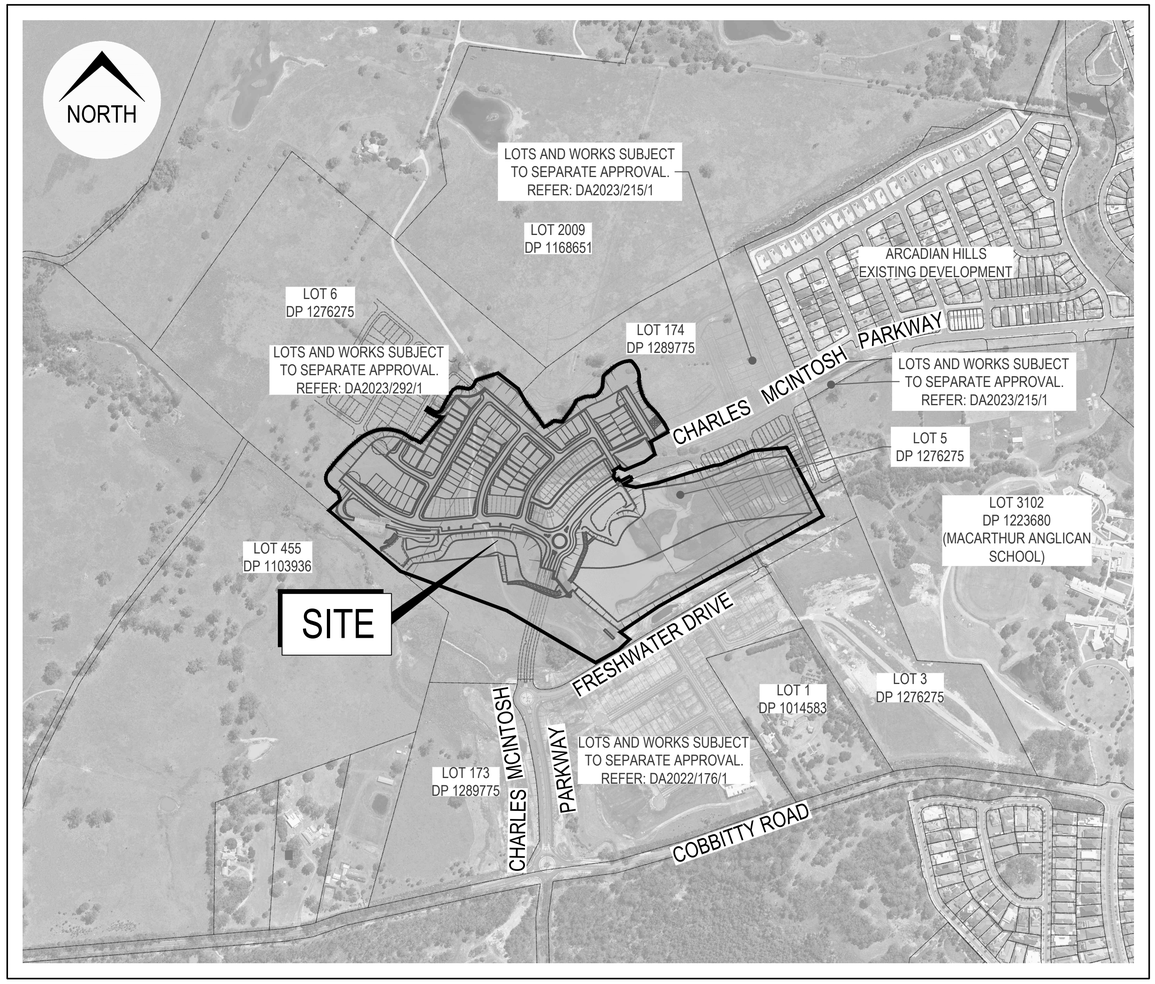
mirvac

LGA:

camden council

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP

DA: 2023/461/1 & 2023/292/1



SITE / LOCATION (Image courtesy of MetroMap 13.02.2024)

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

LOT 5 & 6 DP 1276275 AND LOT 174 DP 1289775

591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1)

ROAD & DRAINAGE DESIGN

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Project No. 23-0579 Set No. 01 Milestone SWC Plan 000 Revision E

PLAN INDEX

No.	PLAN	REV
SHT-000	COVER SHEET	E
SHT-001	DRAWING INDEX	E
SHT-002	NOTES & LEGEND	C
SHT-003	GENERAL LAYOUT PLAN	D
SHT-010	DEMOLITION & TREE MANAGEMENT PLAN	B
SHT-011	EXISTING DRIVEWAY DEMOLITION PLAN	B
SHT-020	STAGING PLAN	B
SHT-030	SITE REGRADING ALIGNMENT PLAN	B
SHT-040	SITE REGRADING PLAN	D
SHT-050	SITE REGRADING SECTIONS SHEET 01	C
SHT-051	SITE REGRADING SECTIONS SHEET 02	B
SHT-052	SITE REGRADING SECTIONS SHEET 03	C
SHT-053	SITE REGRADING SECTIONS SHEET 04	C
SEDIMENT & EROSION CONTROL		
SHT-100	SEDIMENT & EROSION CONTROL PLAN SHEET 01	D
SHT-101	SEDIMENT & EROSION CONTROL PLAN SHEET 02	C
SHT-102	SEDIMENT & EROSION CONTROL PLAN SHEET 03	D
SHT-103	SEDIMENT & EROSION CONTROL PLAN SHEET 04	B
SHT-110	TEMPORARY SEDIMENT BASIN PLAN	D
SHT-120	SEDIMENT & EROSION CONTROL NOTES & DETAILS	B
ENGINEERING PLANS		
SHT-200	ENGINEERING PLAN SHEET 01	C
SHT-201	ENGINEERING PLAN SHEET 02	D
SHT-202	ENGINEERING PLAN SHEET 03	C
SHT-203	ENGINEERING PLAN SHEET 04	C
SHT-204	ENGINEERING PLAN SHEET 05	E
SHT-205	ENGINEERING PLAN SHEET 06	C
SHT-206	ENGINEERING PLAN SHEET 07	E
SHT-207	ENGINEERING PLAN SHEET 08	E
SHT-208	ENGINEERING PLAN SHEET 09	C
SHT-209	ENGINEERING PLAN SHEET 10	B
SHT-210	PAVEMENT PLAN SHEET 01	D
SHT-211	PAVEMENT PLAN SHEET 02	D
SHT-212	PAVEMENT PLAN SHEET 03	D
SHT-213	PAVEMENT DETAILS	B

PLAN INDEX

No.	PLAN	REV
SHT-220	CONTROL LINE SETOUT PLAN SHEET 01	C
SHT-221	CONTROL LINE SETOUT PLAN SHEET 02	C
SHT-222	ROAD SETOUT TABLES	B
SHT-300	TYPICAL ROAD CROSS SECTIONS	C
SHT-310	ROAD LONGITUDINAL SECTIONS SHEET 01	B
SHT-311	ROAD LONGITUDINAL SECTIONS SHEET 02	B
SHT-312	ROAD LONGITUDINAL SECTIONS SHEET 03	B
SHT-313	ROAD LONGITUDINAL SECTIONS SHEET 04	B
SHT-314	ROAD LONGITUDINAL SECTIONS SHEET 05	B
SHT-315	ROAD LONGITUDINAL SECTIONS SHEET 06	C
SHT-316	ROAD LONGITUDINAL SECTIONS SHEET 07	C
SHT-350	ROAD CROSS SECTIONS SHEET 01	B
SHT-351	ROAD CROSS SECTIONS SHEET 02	B
SHT-352	ROAD CROSS SECTIONS SHEET 03	B
SHT-353	ROAD CROSS SECTIONS SHEET 04	C
SHT-354	ROAD CROSS SECTIONS SHEET 05	C
SHT-355	ROAD CROSS SECTIONS SHEET 06	C
SHT-356	ROAD CROSS SECTIONS SHEET 07	C
SHT-357	ROAD CROSS SECTIONS SHEET 08	C
SHT-358	ROAD CROSS SECTIONS SHEET 09	C
SHT-359	ROAD CROSS SECTIONS SHEET 10	B
SHT-360	ROAD CROSS SECTIONS SHEET 11	B
SHT-361	ROAD CROSS SECTIONS SHEET 12	B
SHT-362	ROAD CROSS SECTIONS SHEET 13	B
SHT-363	ROAD CROSS SECTIONS SHEET 14	B
SHT-364	ROAD CROSS SECTIONS SHEET 15	B
SHT-365	ROAD CROSS SECTIONS SHEET 16	B
SHT-366	ROAD CROSS SECTIONS SHEET 17	B
SHT-367	ROAD CROSS SECTIONS SHEET 18	B
SHT-368	ROAD CROSS SECTIONS SHEET 19	B
SHT-369	ROAD CROSS SECTIONS SHEET 20	B
SHT-370	ROAD CROSS SECTIONS SHEET 21	B
SHT-371	ROAD CROSS SECTIONS SHEET 22	B
SHT-372	ROAD CROSS SECTIONS SHEET 23	B
SHT-373	ROAD CROSS SECTIONS SHEET 24	B

PLAN INDEX

No.	PLAN	REV
SHT-374	ROAD CROSS SECTIONS SHEET 25	B
SHT-375	ROAD CROSS SECTIONS SHEET 26	B
SHT-376	ROAD CROSS SECTIONS SHEET 27	C
SHT-377	ROAD CROSS SECTIONS SHEET 28	C
SHT-378	ROAD CROSS SECTIONS SHEET 29	C
SHT-379	ROAD CROSS SECTIONS SHEET 30	C
SHT-380	ROAD CROSS SECTIONS SHEET 31	C
SHT-381	ROAD CROSS SECTIONS SHEET 32	B
SHT-382	ROAD CROSS SECTIONS SHEET 33	B
SHT-383	ROAD CROSS SECTIONS SHEET 34	B
SHT-400	KERB RETURN LOCALITY PLAN	C
SHT-401	KERB RETURN SETOUT PLANS & PROFILES SHEET 01	C
SHT-402	KERB RETURN SETOUT PLANS & PROFILES SHEET 02	C
SHT-403	KERB RETURN SETOUT PLANS & PROFILES SHEET 03	C
SHT-404	KERB RETURN SETOUT PLANS & PROFILES SHEET 04	C
SHT-405	KERB RETURN SETOUT PLANS & PROFILES SHEET 05	C
SHT-406	KERB RETURN SETOUT PLANS & PROFILES SHEET 06	C
SHT-420	STREET PARKING SETOUT PLANS & PROFILES	C
SHT-430	KERB RETURN SETOUT TABLES	C
SHT-440	ROUNDABOUT SPLITTER ISLAND PLAN	D
SHT-441	ROUNDABOUT SPLITTER ISLAND PROFILES SHEET 01	B
SHT-442	ROUNDABOUT SPLITTER ISLAND PROFILES SHEET 02	B
SHT-445	ROUNDABOUT SPLITTER ISLAND SETOUT TABLES	B
SHT-450	SPLITTER ISLAND PLAN	D
SHT-451	SPLITTER ISLAND PROFILES	C
SHT-452	SPLITTER ISLAND SETOUT TABLES	B
SHT-460	BASIN ACCESS TRACK PLAN	C
SHT-461	BASIN ACCESS TRACK KERB RETURN PROFILES & SETOUT	B
CATCHMENT PLANS		
SHT-500	OVERALL PRE DEVELOPMENT CATCHMENT PLAN	B
SHT-501	OVERALL POST DEVELOPMENT ULTIMATE CATCHMENT PLAN	B
SHT-502	DRAINAGE CATCHMENT PLAN	E
SHT-503	STAGE 1 MUSIC CATCHMENT PLAN	B
SHT-504	MUSIC ULTIMATE CATCHMENT PLAN	B

PLAN INDEX

No.	PLAN	REV
SHT-510	DRAINAGE LONGITUDINAL SECTIONS SHEET 01	D
SHT-511	DRAINAGE LONGITUDINAL SECTIONS SHEET 02	D
SHT-512	DRAINAGE LONGITUDINAL SECTIONS SHEET 03	D
SHT-513	DRAINAGE LONGITUDINAL SECTIONS SHEET 04	D
SHT-514	DRAINAGE LONGITUDINAL SECTIONS SHEET 05	D
SHT-515	DRAINAGE LONGITUDINAL SECTIONS SHEET 06	E
SHT-516	DRAINAGE LONGITUDINAL SECTIONS SHEET 07	D
SHT-517	DRAINAGE LONGITUDINAL SECTIONS SHEET 08	D
SHT-518	DRAINAGE LONGITUDINAL SECTIONS SHEET 09	D
SHT-519	DRAINAGE LONGITUDINAL SECTIONS SHEET 10	D
SHT-520	DRAINAGE LONGITUDINAL SECTIONS SHEET 11	D
SHT-521	DRAINAGE LONGITUDINAL SECTIONS SHEET 12	C
SHT-522	DRAINAGE LONGITUDINAL SECTIONS SHEET 13	C
SHT-530	PIT SCHEDULE	E
SHT-531	DRAINAGE CALCULATIONS - HYDROLOGY 5YR	E
SHT-532	DRAINAGE CALCULATIONS - HYDRAULICS 5YR	E
SHT-533	DRAINAGE CALCULATIONS - HYDROLOGY 100YR	E
SHT-534	DRAINAGE CALCULATIONS - HYDRAULICS 100YR	E
SHT-545	DRAINAGE DETAILS	D
SHT-550	PIT ARRANGEMENT PLAN SHEET 1	C
SHT-551	PIT ARRANGEMENT PLAN SHEET 2	B
SHT-552	PIT ARRANGEMENT PLAN SHEET 3	B
SHT-553	SPLITTER PIT O2000/04 PLAN & DETAILS	B
BASIN PLANS		
SHT-600	BIO BASIN PD05 PLAN & SETOUT TABLES	E
SHT-601	BIO BASIN PD05 DETAIL SECTIONS	B
SHT-602	BIO BASIN PD01 PLAN & SETOUT TABLES	C
SHT-603	BIO BASIN PD01 DETAIL SECTIONS	B
SHT-604	BASIN PLANTING NOTES	C
SHT-610	COMPENSATORY FLOOD STORAGE AREA	C
SHT-611	COMPENSATION BASIN SHEET 01	B
SHT-612	COMPENSATION BASIN SHEET 02	B
SHT-620	SWALE 1 & 2 PLAN SECTIONS AND SETOUT TABLES	C
SHT-621	SWALE PLAN 3 SECTION AND SETOUT TABLE	D
SHT-630	FARM DAM WEIR PLAN & DETAILS	B

PLAN INDEX

No.	PLAN	REV
RETAINING WALL & LOT BENCHING PLANS		
SHT-700	RETAINING WALL & LOT BENCHING KEY PLAN	D
SHT-701	RETAINING WALL PLAN SHEET 01	D
SHT-702	RETAINING WALL PLAN SHEET 02	C
SHT-703	RETAINING WALL PLAN SHEET 03	C
SHT-704	RETAINING WALL PLAN SHEET 04	D
SHT-705	RETAINING WALL PLAN SHEET 05	D
SHT-706	RETAINING WALL PLAN SHEET 06	D
SHT-710	RETAINING WALL DETAILS	C
SHT-711	RETAINING WALL PROFILES SHEET 01	C
SHT-712	RETAINING WALL PROFILES SHEET 02	B
SHT-713	RETAINING WALL PROFILES SHEET 03	B
SHT-714	RETAINING WALL PROFILES SHEET 04	C
SHT-715	RETAINING WALL PROFILES SHEET 05	B
SHT-716	RETAINING WALL PROFILES SHEET 06	B
SHT-717	RETAINING WALL PROFILES SHEET 07	D
SHT-718	RETAINING WALL PROFILES SHEET 08	C
SHT-719	RETAINING WALL PROFILES SHEET 09	C
SHT-720	RETAINING WALL PROFILES SHEET 10	C
SHT-721	RETAINING WALL PROFILES SHEET 11	C
SHT-722	RETAINING WALL SETOUT TABLES SHEET 01	B
SHT-723	RETAINING WALL SETOUT TABLES SHEET 02	B
SIGNAGE AND LINEMARKING PLANS		
SHT-800	SIGNAGE AND LINEMARKING PLAN	D
SHT-801	NO PARKING PLAN	D
SHT-850	DENBIGH CURTILAGE LINE OF SIGHT RAY PLAN	B

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

E *COUNCIL RFI
*PIPE O2000 UPSIZED
*PIT NUMBERS AMENDED

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
E	LMc	LMc	MP	MP	20/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
D	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

Scale:

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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: DRAWING INDEX

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	001	E

NORTH

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP

LOT 2008
DP 1168651

LOT 2009
DP 1168651

LOT 6
DP 1276275

LOTS AND WORKS SUBJECT
TO SEPARATE APPROVAL.
REFER: DA2023/292/1

LOTS AND WORKS SUBJECT
TO SEPARATE APPROVAL.
REFER: DA2023/215/1

FUTURE
SCHOOL

LOT 3102, DP 1223680
(MACARTHUR ANGLICAN SCHOOL)
INDICATIVE FUTURE DESIGN

LOT 3
DP 1276275

LOT 5
DP 1276275

LOT 1
DP 1014583

LOTS AND WORKS SUBJECT
TO SEPARATE APPROVAL.
REFER: DA2022/176/1

LOT 455
DP 1103936

LOT 173
DP 1289775

ROAD 40
ROAD 30
ROAD 34
ROAD 36
ROAD 37
ROAD 26
ROAD 25
ROAD 35
ROAD 20
LANEWAY 01
LANEWAY 01
CHARLES MCINTOSH PARKWAY
SPS EXIT
SPS ENTRY

COBBITTY CREEK

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

Scale:
0 15 30 45 60 75 90 105 120 135 150
SCALE 1:1500 (A1) SCALE 1:3000 (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: 591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title: SITE REGRADING ALIGNMENT PLAN

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	030	B

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

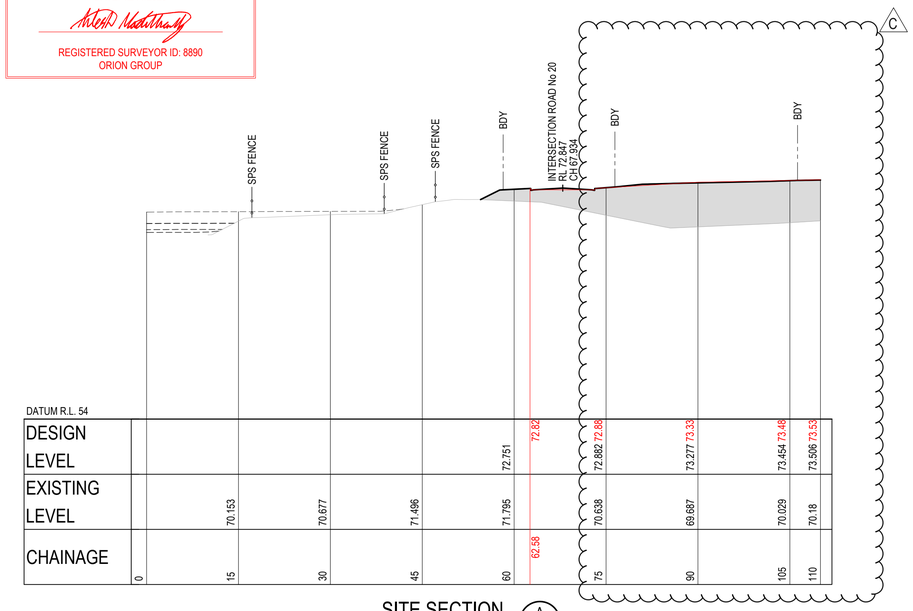
REGISTERED SURVEYOR ID: 8890
ORION GROUP

NOTE:

- REFER TO SHEETS SWC 711 - 721 FOR RETAINING WALL PROFILES AND SETOUT TABLES

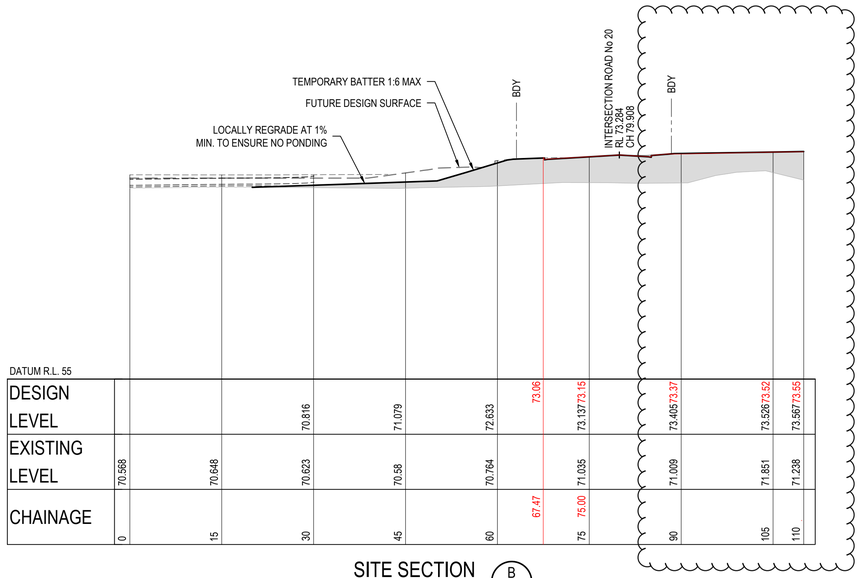
LEGEND

FINISHED DESIGN SURFACE LEVEL	
EXISTING SURFACE	
EXISTING LOT BOUNDARY	
5 YEAR ARI FLOOD LEVEL	
100 YEAR ARI FLOOD LEVEL	
100 YR + 0.5M FREEBOARD	
PMF FLOOD LEVEL	
FILL AREA	
CUT AREA	



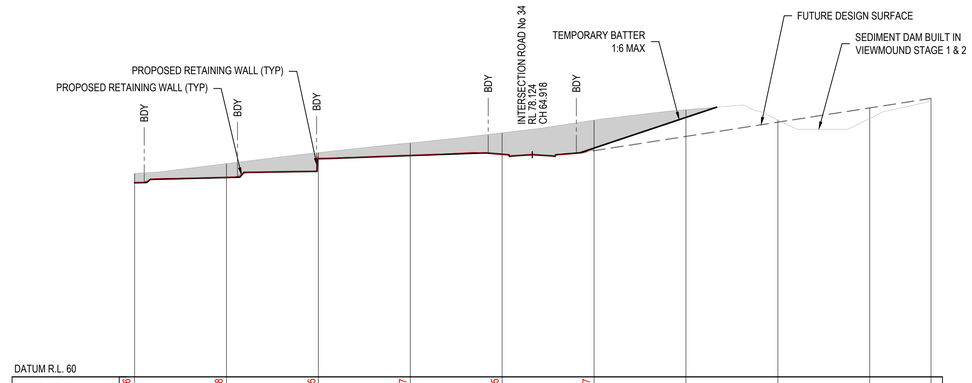
DATUM R.L. 54																						
DESIGN LEVEL							72.751	72.82	72.882	72.88	73.277	73.33	73.454	73.48	73.506	73.53						
EXISTING LEVEL		70.153		70.677		71.496	71.795		70.638		69.687		70.029		70.18							
CHAINAGE	0	15		30		45	60	62.56	75		90		105		110							

SITE SECTION A
SCALE: 1:500 (H)
SCALE: 1:250 (V)
030



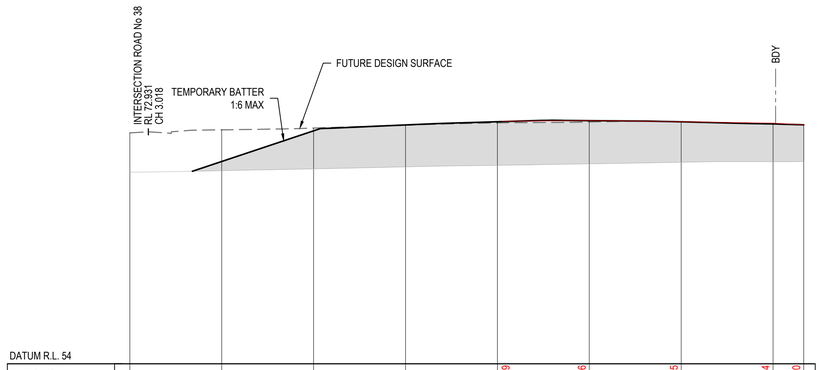
DATUM R.L. 55																						
DESIGN LEVEL				70.816		71.079		72.633	73.06	73.137	73.15		73.405	73.37		73.526	73.52	73.567	73.55			
EXISTING LEVEL	70.568		70.648		70.623		70.58		70.764		71.035		71.009			71.851		71.238				
CHAINAGE	0		15		30		45		60	67.47	75.00	75		90		105		110				

SITE SECTION B
SCALE: 1:500 (H)
SCALE: 1:250 (V)
030



DATUM R.L. 60																						
DESIGN LEVEL	75.843	75.86		76.268	76.28	77.8	77.55	78.058	78.07	78.159	78.15	78.668	78.67	81.168								
EXISTING LEVEL	76.599		77.397		78.297		79.089		79.909		80.945		81.794		80.955		81.081		82.506			
CHAINAGE	0		15		30		45		60		75		90		105		120		130			

SITE SECTION C
SCALE: 1:500 (H)
SCALE: 1:250 (V)
030



DATUM R.L. 54																						
DESIGN LEVEL			70.513		73.013		73.49		73.752	73.79	73.845	73.86	73.747	73.75		73.576	73.64	73.498	73.50			
EXISTING LEVEL	69.635		69.764		69.912		70.075		70.202		70.323		70.451			70.502		70.515				
CHAINAGE	0		15		30		45		60	60.81	75		90		105		110					

SITE SECTION D
SCALE: 1:500 (H)
SCALE: 1:250 (V)
030

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

Scale:
0 5 10 15 20 25 30 35 40 45 50
SCALE 1:500 (A1) SCALE 1:1000 (A3)
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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: SITE REGRADING SECTIONS SHEET 01

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	050	C

NOTE:

- REFER TO SHEETS SWC 711 - 721 FOR RETAINING WALL PROFILES AND SETOUT TABLES

LEGEND

FINISHED DESIGN SURFACE LEVEL	
EXISTING SURFACE	
EXISTING LOT BOUNDARY	
5 YEAR ARI FLOOD LEVEL	
100 YEAR ARI FLOOD LEVEL	
100 YR + 0.5M FREEBOARD	
PMF FLOOD LEVEL	
FILL AREA	
CUT AREA	

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

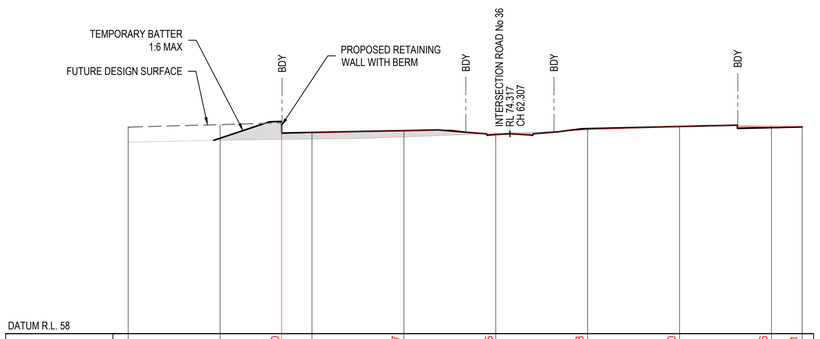
REGISTERED SURVEYOR ID: 8890
ORION GROUP

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

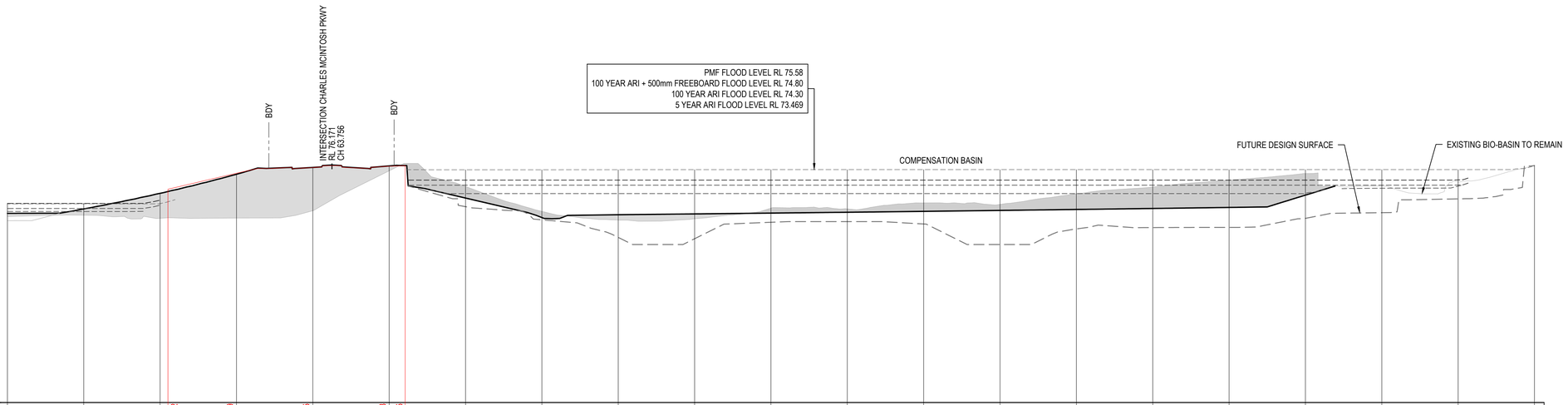
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



DATUM R.L. 58

DESIGN LEVEL		73.961	74.30	74.423	74.571	74.57	74.247	74.25	74.734	74.68	74.907	74.90	74.811	74.86	74.874	74.91						
EXISTING LEVEL	73.625	73.79		73.892	74.059		74.344		74.618		74.924		74.954		74.899							
CHAINAGE	0	15	25.05	30	45		60		75		90		105		110							

SITE SECTION E
SCALE: 1:500 (H)
SCALE: 1:250 (V)
030



B

DATUM R.L. 53

DESIGN LEVEL	71.56	71.995	73.92	73.524	75.49	75.392	76.05	76.065	76.18	76.212	76.25	73.062	71.447	71.421	71.503	71.584	71.666	71.755	71.848	71.941	72.038	72.139	73.347	
EXISTING LEVEL	71.261	71.382		71.079		71.104		71.819		75.737		74.195	71.752	70.906	71.034	72.072	71.997	72.578	72.436	73.486	74.145	74.817	75.466	74.231	74.626	76.211
CHAINAGE	0	15	31.54	30		45		60	76.14	75		90	105	120	135	150	165	180	195	210	225	240	255	270	285	300

SITE SECTION F
SCALE: 1:500 (H)
SCALE: 1:250 (V)
030

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

JAS-ANZ
WWW.JAS-ANZ.ORG/REGISTER

Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: SITE REGRADING SECTIONS SHEET 02

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	051	B

NOTE:

- REFER TO SHEETS SWC 711 - 721 FOR RETAINING WALL PROFILES AND SETOUT TABLES

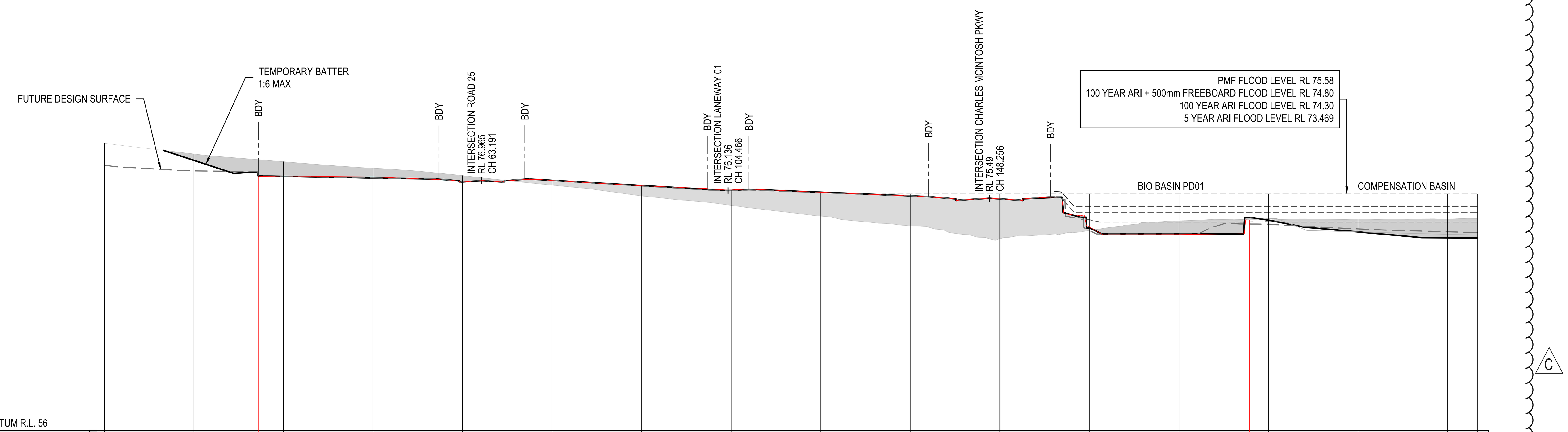
LEGEND

- FINISHED DESIGN SURFACE LEVEL
- EXISTING SURFACE
- EXISTING LOT BOUNDARY
- 5 YEAR ARI FLOOD LEVEL
- 100 YEAR ARI FLOOD LEVEL
- 100 YR + 0.5M FREEBOARD
- PMF FLOOD LEVEL
- FILL AREA
- CUT AREA

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP

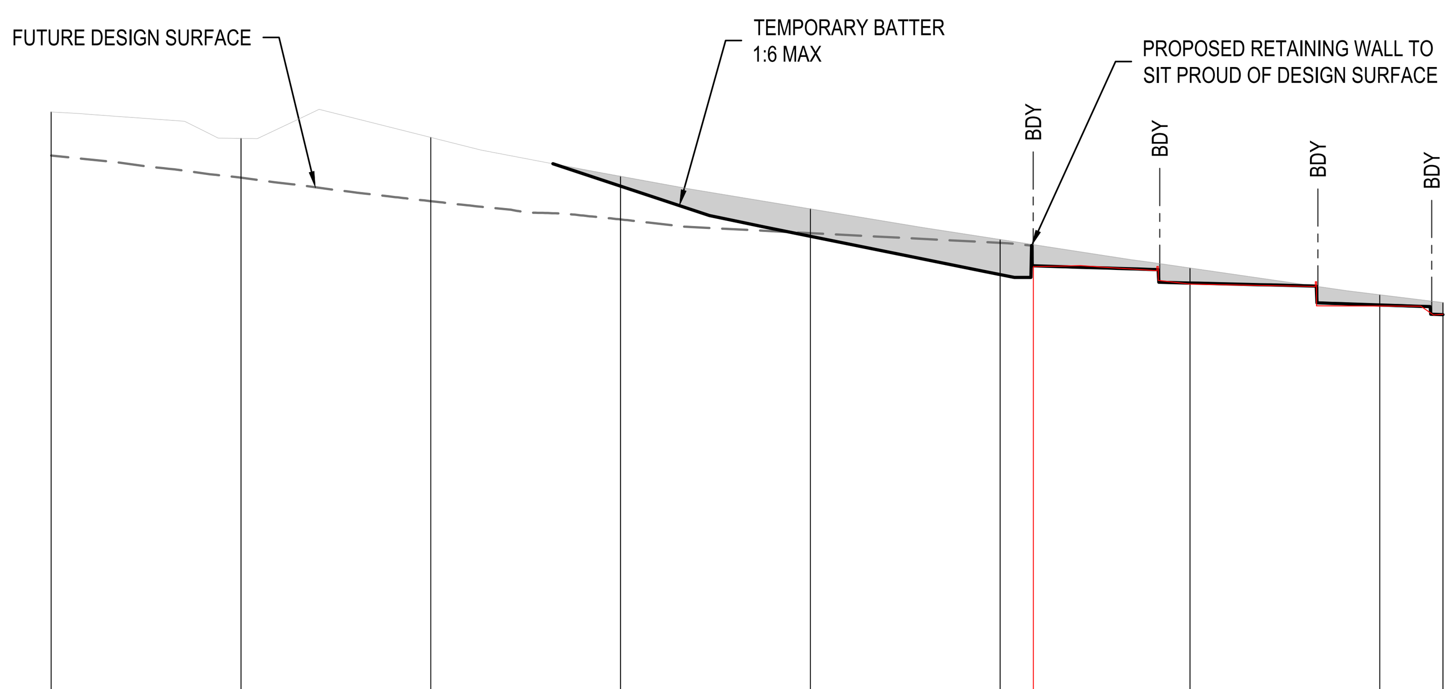


DATUM R.L. 56

DESIGN LEVEL		78.671	77.31	77.326 77.36	77.194 77.28	76.869 76.85	76.993 76.98	76.558 76.54	76.152 76.20	75.997 75.99	75.694 75.69	75.437 75.44	73 73.08	72.5 72.45	73.67	73.659	72.675	72.183	72.168
EXISTING LEVEL	80.11	79.205		78.557	78.012	77.392	76.597	75.688	74.906	74	73.185	72.096	72.804	73.596		73.68	73.75	73.748	73.797
CHAINAGE	0	15	25.73	30	45	60	75	90	105	120	135	150	165	180	191.83	195	210	225	230

SITE SECTION (G / 030)

SCALE: 1:500 (H)
SCALE: 1:250 (V)



DATUM R.L. 63

DESIGN LEVEL				83.21	81.23	79.714	80.03	79.382 79.34	78.515 78.55	78.134 78.15
EXISTING LEVEL	86.137	85.095	85.134	83.593	82.305	81.096		79.969	78.911	78.604
CHAINAGE	0	15	30	45	60	75	77.63	90	105	110

SITE SECTION (H / 030)

SCALE: 1:500 (H)
SCALE: 1:250 (V)

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

Scale:
0 5 10 15 20 25 30 35 40 45 50
SCALE 1:500 (A1) SCALE 1:1000 (A3)
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:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title:
SITE REGRADING SECTIONS
SHEET 03

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	052	C

NOTE:

- REFER TO SHEETS SWC 711 - 721 FOR RETAINING WALL PROFILES AND SETOUT TABLES

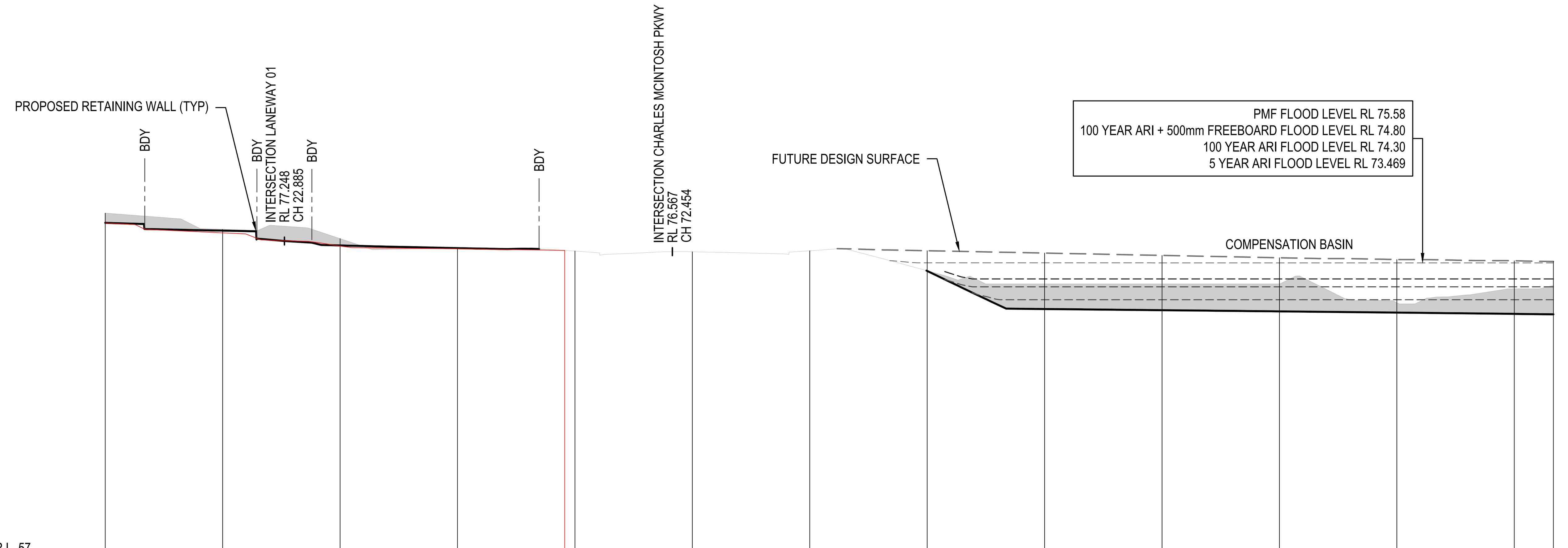
LEGEND

- FINISHED DESIGN SURFACE LEVEL
- EXISTING SURFACE
- EXISTING LOT BOUNDARY
- 5 YEAR ARI FLOOD LEVEL
- 100 YEAR ARI FLOOD LEVEL
- 100 YR + 0.5M FREEBOARD
- PMF FLOOD LEVEL
- FILL AREA
- CUT AREA

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP



DATUM R.L. 57

DESIGN LEVEL	78.409 78.41	77.91 77.80	76.964 76.93	76.793 76.75	76.64			75.335	72.903	72.829	72.753	72.674	72.593	72.565
EXISTING LEVEL	79.027	77.989	77.394	76.799	76.605	76.559	76.624	75.345	74.5	74.5	74.5	73.301	74.187	74.4
CHAINAGE	0	15	30	45	76.64 60	75	90	105	120	135	150	165	180	185

LONGITUDINAL SECTION - I

SCALE 1:500 (H)
SCALE 1:250 (V)

C

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

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

Project:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title:
SITE REGRADING SECTIONS
SHEET 04

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	053	C

NORTH

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP

Notes:
1. All inter-allotment drainage pits are to have drainage stubs installed to allow for future house connection.
2. All retaining wall subsoil lines are to have their own separate drainage connection independent of lot kerb outlets or pit stubs.

LOT 6
DP 1276275

LOTS AND WORKS SUBJECT TO SEPARATE APPROVAL.
REFER: DA2023/292/1

CAP FOR FUTURE CONNECTION

LIMIT OF ROADWORKS
CH 32.120

ROAD 37

ROAD 35

CH 32.120
CH 30.0
CH 0.000

KTP 23.346
KTP 9.398
KTP 215.228

SAG 15.300
CH 15.0

PROVIDE REMOVABLE JERSEY KERB (TYP)

PROVIDE MAX. 1V:6H BATTER

CONSTRUCT TEMPORARY TURNING HEAD WITH REFLECTORISED GUIDE POSTS AT 1.5m C/C

LIMIT OF ROADWORKS
CH 215.228

PROVIDE REMOVABLE JERSEY KERB (TYP)

O2035 /06
O2035 /05
O2035 /04
O2035 /03
O2035 /02
O2036 /01
Ø375
Ø2x1525
Ø2x1800
R-100.000
R12
FP
RK
1112

FOR CONTINUATION REFER TO SHEET SWC 203

FOR CONTINUATION REFER TO SHEET SWC 201

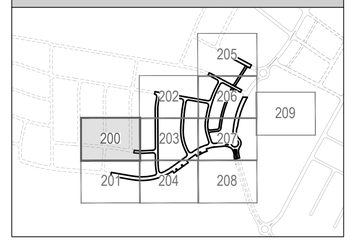
CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

KEY PLAN



NOTE:

- REFER SHEETS SWC 700 - 710 FOR LOT BENCHING AND RETAINING WALL DETAILS.

LEGEND

LIMIT OF WORKS BOUNDARY	
POST DEVELOPED PMF POST DEVELOPED FPL POST DEVELOPED 100YR FLOOD LEVEL POST DEVELOPED 20YR FLOOD LEVEL POST DEVELOPED 5YR FLOOD LEVEL	
DENOTES ROOF WATER CONNECTION TO KERB. REFER COUNCIL STANDARD	
DENOTES ROOF WATER CONNECTION TO REAR OF PIT. REFER COUNCIL STANDARD	
TYPE 1 - CONCRETE SLEEPER	
TYPE 2 - MASONRY BLOCK	
TYPE 3 - CONCRETE SLEEPER (SANDSTONE LOOK)	
TYPE 4 - TEMPORARY STACKED ROCK & TYPE 5 - SANDSTONE LOG	
PROPOSED SEWER	S
1.2m HIGH POST AND RAIL FENCING	
EXISTING STORMWATER CONSTRUCTED UNDER SEPARATE DA TO BE DEMOLISHED OR DECOMMISSIONED	

EASEMENTS

(A)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE
(B)	EASEMENT FOR DRAINAGE OF WATER 1.5 WIDE
(C)	EASEMENT FOR DRAINAGE OF WATER 2.0 WIDE
(E)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE (RETAINING WALLS)
(E1)	EASEMENT FOR SUPPORT OVER RETAINING WALL 0.9 WIDE

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 *ROAD 20 KG AMENDED
*MINOR CONTOUR ADJUSTMENTS
*PRAM RAMP CHANGED TO SQUARE WINGS

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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)

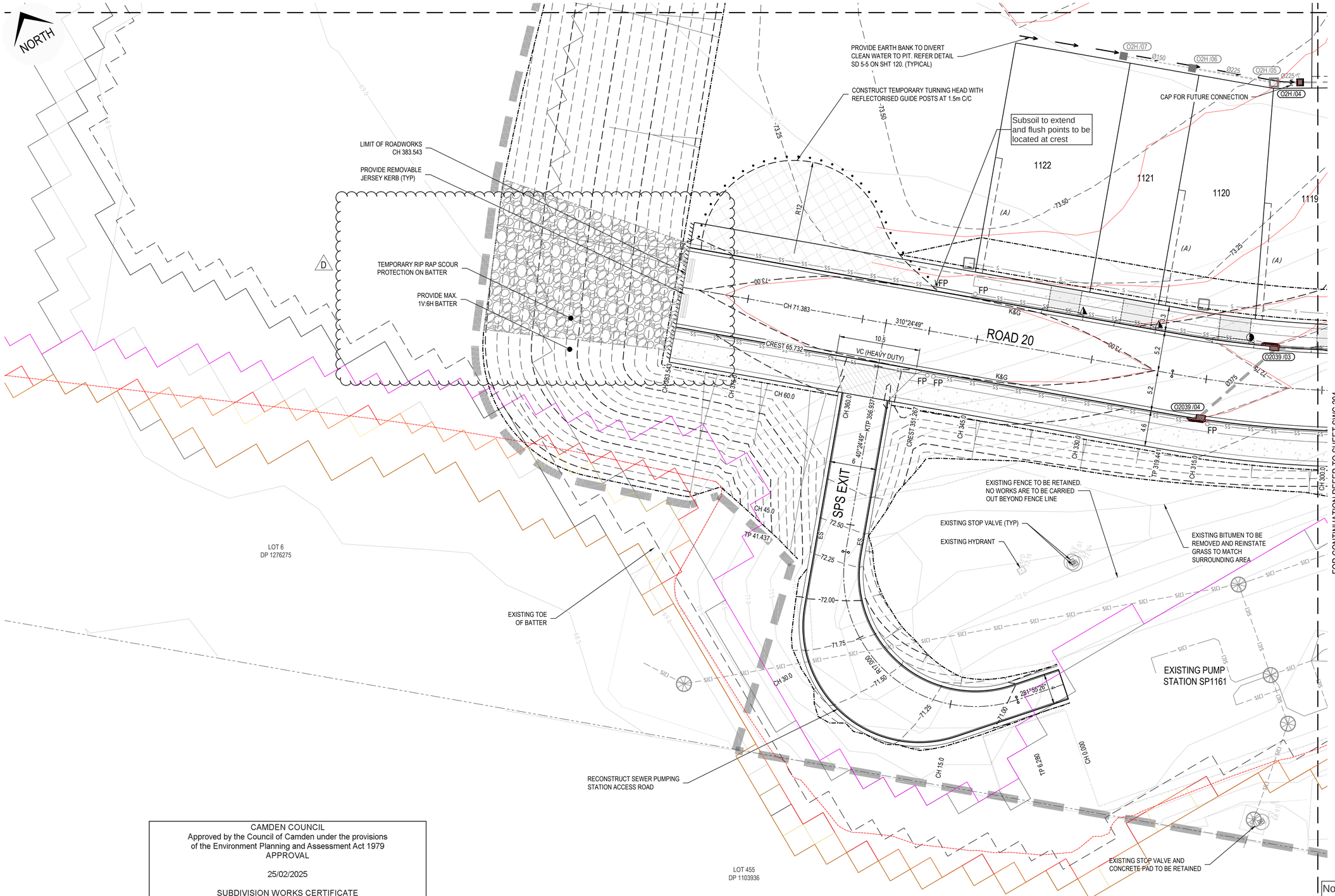
For: mirvac

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

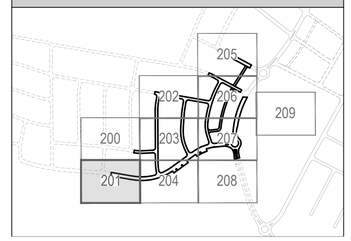
Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title: ENGINEERING PLAN SHEET 01

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	200	C



KEY PLAN



NOTE:

- REFER SHEETS SWC 700 - 710 FOR LOT BENCHING AND RETAINING WALL DETAILS.

LEGEND

LIMIT OF WORKS BOUNDARY	
POST DEVELOPED PMF POST DEVELOPED FPL POST DEVELOPED 100YR FLOOD LEVEL POST DEVELOPED 20YR FLOOD LEVEL POST DEVELOPED 5YR FLOOD LEVEL	
DENOTES ROOF WATER CONNECTION TO KERB. REFER COUNCIL STANDARD	
DENOTES ROOF WATER CONNECTION TO REAR OF PIT. REFER COUNCIL STANDARD	
TYPE 1 - CONCRETE SLEEPER	
TYPE 2 - MASONRY BLOCK	
TYPE 3 - CONCRETE SLEEPER (SANDSTONE LOOK)	
TYPE 4 - TEMPORARY STACKED ROCK & TYPE 5 - SANDSTONE LOG	
PROPOSED SEWER	S
1.2m HIGH POST AND RAIL FENCING	
STUB FOR CONNECTION	
EXISTING STORMWATER CONSTRUCTED UNDER SEPARATE DA TO BE DEMOLISHED OR DECOMMISSIONED	

EASEMENTS

(A)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE
(B)	EASEMENT FOR DRAINAGE OF WATER 1.5 WIDE
(C)	EASEMENT FOR DRAINAGE OF WATER 2.0 WIDE
(E)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE (RETAINING WALLS)
(E1)	EASEMENT FOR SUPPORT OVER RETAINING WALL 0.9 WIDE

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

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP

WAE LEGEND
DENOTES 100YR ARI FLOOD LEVEL EXTENT
DENOTES 100YR ARI FPL EXTENT
DENOTES 5YR ARI FLOOD LEVEL EXTENT
DENOTES PMF EXTENT
FLOOD LINES FOR THE 5%, 1%, FLOOD PLANNING LEVEL AND PMF ARE EXTRACTED FROM THE APPROVED SWC.16.2023.461.3, WHICH REFLECTS THE LAST AVAILABLE ENDORSED FLOOD INFORMATION FOR THE SITE.

Notes:
1. All inter-allotment drainage pits are to have drainage stubs installed to allow for future house connection.
2. All retaining wall subsoil lines are to have their own separate drainage connection independent of lot kerb outlets or pit stubs.

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
D	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ENGINEERING PLAN SHEET 02

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	201	D

NORTH

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP

Notes:
1. All inter-allotment drainage pits are to have drainage stubs installed to allow for future house connection.
2. All retaining wall subsoil lines are to have their own separate drainage connection independent of lot kerb outlets or pit stubs.

EXISTING DRIVEWAY TO BE REMOVED

LOT 6 DP 1276275

PROVIDE EARTH BANK TO DIVERT CLEAN WATER AROUND SITE. REFER DETAIL SD 5-5 ON SHT 120. (TYPICAL)

LOT 174 DP 1289775

TEMPORARY SEDIMENT BASIN BUILT IN VIEWMOUND STAGE 1 & 2

PROVIDE REMOVABLE JERSEY KERB (TYP)

LIMIT OF ROADWORKS CH 301.620

PROVIDE MAX. 1V:6H TEMPORARY BATTER

ROAD 34

ROAD 36

ROAD 26

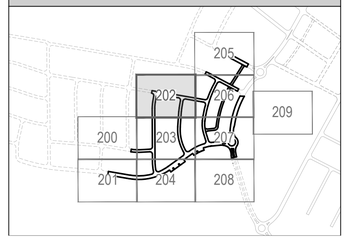
FRONT LOT BATTER VARIES MAX. 1:10 TYP

SIDE BATTER MAX. 1:2 REFER DETAIL ON SHT 701 TYP

FOR CONTINUATION REFER TO SHEET SWC 206

FOR CONTINUATION REFER TO SHEET SWC 203

KEY PLAN



NOTE:

- REFER SHEETS SWC 700 - 710 FOR LOT BENCHING AND RETAINING WALL DETAILS.

LEGEND

- LIMIT OF WORKS BOUNDARY
- POST DEVELOPED PMF
- POST DEVELOPED FPL
- POST DEVELOPED 100YR FLOOD LEVEL
- POST DEVELOPED 20YR FLOOD LEVEL
- POST DEVELOPED 5YR FLOOD LEVEL
- DENOTES ROOF WATER CONNECTION TO KERB. REFER COUNCIL STANDARD
- DENOTES ROOF WATER CONNECTION TO REAR OF PIT. REFER COUNCIL STANDARD
- TYPE 1 - CONCRETE SLEEPER
- TYPE 2 - MASONRY BLOCK
- TYPE 3 - CONCRETE SLEEPER (SANDSTONE LOOK)
- TYPE 4 - TEMPORARY STACKED ROCK & TYPE 5 - SANDSTONE LOG
- PROPOSED SEWER
- 1.2m HIGH POST AND RAIL FENCING
- EXISTING STORMWATER CONSTRUCTED UNDER SEPARATE DA TO BE DEMOLISHED OR DECOMMISSIONED

EASEMENTS

(A)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE
(B)	EASEMENT FOR DRAINAGE OF WATER 1.5 WIDE
(C)	EASEMENT FOR DRAINAGE OF WATER 2.0 WIDE
(E)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE (RETAINING WALLS)
(E1)	EASEMENT FOR SUPPORT OVER RETAINING WALL 0.9 WIDE

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 *PRAM RAMP CHANGED TO SQUARE WINGS

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ENGINEERING PLAN SHEET 03

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	202	C

FOR CONTINUATION REFER TO SHEET SWC 202

FOR CONTINUATION REFER TO SHEET SWC 200

FOR CONTINUATION REFER TO SHEET SWC 207

FOR CONTINUATION REFER TO SHEET SWC 204

NORTH

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

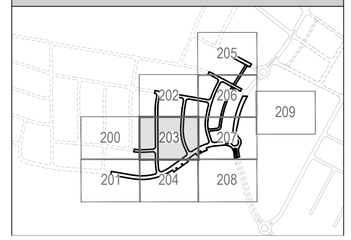
REGISTERED SURVEYOR ID: 8890
ORION GROUP

WAE LEGEND

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

FLOOD LINES FOR THE 5%, 1%, FLOOD PLANNING LEVEL AND PMF ARE EXTRACTED FROM THE APPROVED SWC.16.2023.461.3, WHICH REFLECTS THE LAST AVAILABLE ENDORSED FLOOD INFORMATION FOR THE SITE.

KEY PLAN



NOTE:

- REFER SHEETS SWC 700 - 710 FOR LOT BENCHING AND RETAINING WALL DETAILS.

LEGEND

- LIMIT OF WORKS BOUNDARY
- POST DEVELOPED PMF
- POST DEVELOPED FPL
- POST DEVELOPED 100YR FLOOD LEVEL
- POST DEVELOPED 20YR FLOOD LEVEL
- POST DEVELOPED 5YR FLOOD LEVEL
- DENOTES ROOF WATER CONNECTION TO KERB. REFER COUNCIL STANDARD
- DENOTES ROOF WATER CONNECTION TO REAR OF PIT. REFER COUNCIL STANDARD
- TYPE 1 - CONCRETE SLEEPER
- TYPE 2 - MASONRY BLOCK
- TYPE 3 - CONCRETE SLEEPER (SANDSTONE LOOK)
- TYPE 4 - TEMPORARY STACKED ROCK & TYPE 5 - SANDSTONE LOG
- PROPOSED SEWER
- 1.2m HIGH POST AND RAIL FENCING
- EXISTING STORMWATER CONSTRUCTED UNDER SEPARATE DA TO BE DEMOLISHED OR DECOMMISSIONED

EASEMENTS

(A)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE
(B)	EASEMENT FOR DRAINAGE OF WATER 1.5 WIDE
(C)	EASEMENT FOR DRAINAGE OF WATER 2.0 WIDE
(E)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE (RETAINING WALLS)
(E1)	EASEMENT FOR SUPPORT OVER RETAINING WALL 0.9 WIDE

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

Notes:
1. All inter-allotment drainage pits are to have drainage stubs installed to allow for future house connection.
2. All retaining wall subsoil lines are to have their own separate drainage connection independent of lot kerb outlets or pit stubs.

CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL
25/02/2025
SUBDIVISION WORKS CERTIFICATE
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ENGINEERING PLAN SHEET 04

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	203	C

FOR CONTINUATION REFER TO SHEET SWC 203

FOR CONTINUATION REFER TO SHEET SWC 201

FOR CONTINUATION REFER TO SHEET SWC 208

NORTH

ROAD 36

ROAD 20

SPS ENTRY

SPORTS ACCESS 1

SPORTS ACCESS 2

A restriction is to be imposed on the driveway of Lot 1117: Driveway location to be as per stamped SWC Plan with a minimum distance of 1m from the drainage pit lintel.

EXISTING POWER POLE (TYP)

EXISTING OVERHEAD POWER LINES

EXISTING TELSTRA PIT

EXISTING SEWER MANHOLE (TYP)

PROPOSED SPLITTER PIT

TRANSITION KERB K&G TO RK AT PR

PROPOSED HUMEGARD HG27

CONSTRUCT 2.5m WIDE SHARED PATH TO COUNCIL STANDARD

HEAVY DUTY VEHICULAR CROSSING FOR SEWER PUMP STATION SP1161, GPT MAINTENANCE BAY AND OFF STREET CARPARKING ACCESS

MAINTENANCE BAY

EXISTING ELECTRICAL TO BE RELOCATED AS REQUIRED

EXISTING SPS FENCE TO BE ADJUSTED AS REQUIRED

EXISTING SEWER MAN HOLE LID TO BE RAISED TO MATCH PROPOSED SURFACE LEVELS

PROPOSED WORKS TO TIE INTO EXISTING BITUMEN SERVICE ROAD LEVELS

EXISTING DRAINAGE PIPE TO BE REMOVED

EXISTING SUBSTATION TO BE RETAINED

EXISTING PUMP STATION SP1161

PROPOSED SWALE

EXISTING STOP VALVES TO BE RETAINED

PROPOSED ROCK APRON AND LEVEL SPREADER

BIO BASIN PD05
REFER SHEET 600 - 601 FOR DETAILS

DISCHARGE CONTROL PIT

LOT 455
DP 1103936

EXISTING SEWER RISING MAIN

TEMPORARY BASIN ACCESS TRACK. PERMANENT DRIVEWAY SUBJECT TO FUTURE DEVELOPMENT APPLICATION APPROVAL. CARPARK TO BE DESIGNED AND CONSTRUCTED AS PART OF SEPARATE APPROVAL

TEMPORARY BATTER 1:4 MAX

~~REFLECTORISED GUIDE POSTS AT 1.5m C/C~~

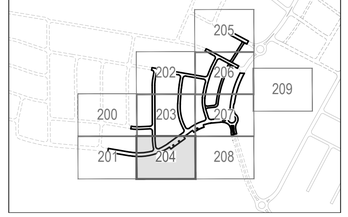
Reflectorised guide posts not to be installed.

PROPOSED SEWER

Basin fencing and gates to be installed as per sheet 600

FALL 1% MIN.

KEY PLAN



NOTE:

- REFER SHEETS SWC 700 - 710 FOR LOT BENCHING AND RETAINING WALL DETAILS.

LEGEND

LIMIT OF WORKS BOUNDARY	
POST DEVELOPED PMF POST DEVELOPED FPL POST DEVELOPED 100YR FLOOD LEVEL POST DEVELOPED 20YR FLOOD LEVEL POST DEVELOPED 5YR FLOOD LEVEL	
DENOTES ROOF WATER CONNECTION TO KERB. REFER COUNCIL STANDARD	
DENOTES ROOF WATER CONNECTION TO REAR OF PIT. REFER COUNCIL STANDARD	
TYPE 1 - CONCRETE SLEEPER	
TYPE 2 - MASONRY BLOCK	
TYPE 3 - CONCRETE SLEEPER (SANDSTONE LOOK)	
TYPE 4 - TEMPORARY STACKED ROCK & TYPE 5 - SANDSTONE LOG	
PROPOSED SEWER	S
1.2m HIGH POST AND RAIL FENCING	
STUB FOR CONNECTION	
EXISTING STORMWATER CONSTRUCTED UNDER SEPARATE DA TO BE DEMOLISHED OR DECOMMISSIONED	

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP

WAE LEGEND

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

FLOOD LINES FOR THE 5%, 1%, FLOOD PLANNING LEVEL AND PMF ARE EXTRACTED FROM THE APPROVED SWC.16.2023.461.3, WHICH REFLECTS THE LAST AVAILABLE ENDORSED FLOOD INFORMATION FOR THE SITE.

EASEMENTS

(A)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE
(B)	EASEMENT FOR DRAINAGE OF WATER 1.5 WIDE
(C)	EASEMENT FOR DRAINAGE OF WATER 2.0 WIDE
(E)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE (RETAINING WALLS)
(E1)	EASEMENT FOR SUPPORT OVER RETAINING WALL 0.9 WIDE

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

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

Notes:
1. All inter-allotment drainage pits are to have drainage stubs installed to allow for future house connection.
2. All retaining wall subsoil lines are to have their own separate drainage connection independent of lot kerb outlets or pit stubs.

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
E	LMc	LMc	MP	MP	20/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
D	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title: ENGINEERING PLAN SHEET 05

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	204	E

NORTH

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

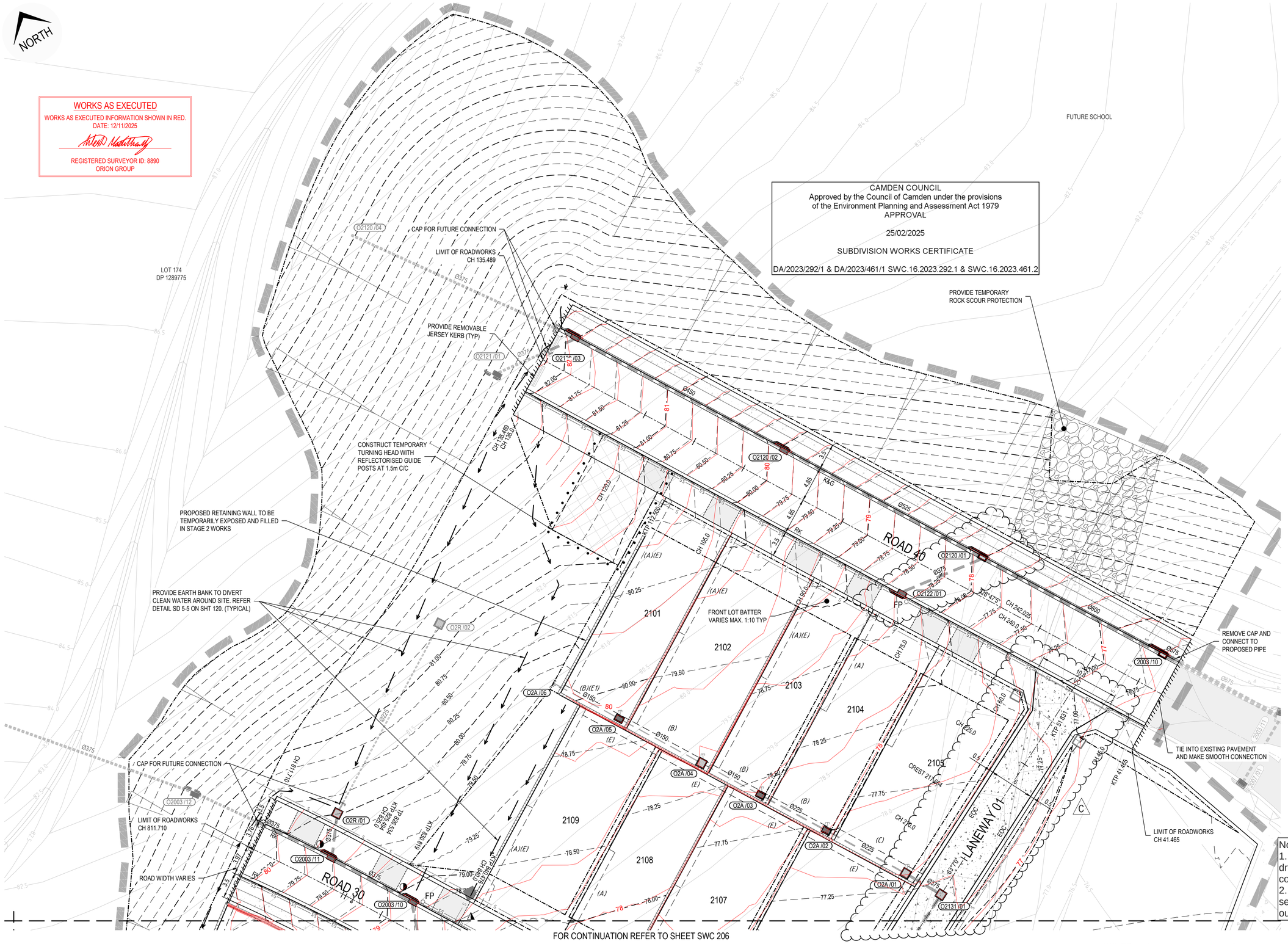
REGISTERED SURVEYOR ID: 8890
ORION GROUP

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

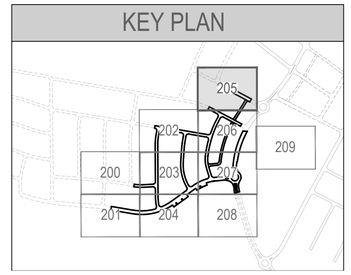
25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



KEY PLAN



NOTE:

- REFER SHEETS SWC 700 - 710 FOR LOT BENCHING AND RETAINING WALL DETAILS.

LEGEND

- LIMIT OF WORKS BOUNDARY
- POST DEVELOPED PMF
- POST DEVELOPED FPL
- POST DEVELOPED 100YR FLOOD LEVEL
- POST DEVELOPED 20YR FLOOD LEVEL
- POST DEVELOPED 5YR FLOOD LEVEL
- DENOTES ROOF WATER CONNECTION TO KERB. REFER COUNCIL STANDARD
- DENOTES ROOF WATER CONNECTION TO REAR OF PIT. REFER COUNCIL STANDARD
- TYPE 1 - CONCRETE SLEEPER
- TYPE 2 - MASONRY BLOCK
- TYPE 3 - CONCRETE SLEEPER (SANDSTONE LOOK)
- TYPE 4 - TEMPORARY STACKED ROCK & TYPE 5 - SANDSTONE LOG
- PROPOSED SEWER
- 1.2m HIGH POST AND RAIL FENCING
- STUB FOR CONNECTION
- EXISTING STORMWATER CONSTRUCTED UNDER SEPARATE DA TO BE DEMOLISHED OR DECOMMISSIONED

EASEMENTS

(A)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE
(B)	EASEMENT FOR DRAINAGE OF WATER 1.5 WIDE
(C)	EASEMENT FOR DRAINAGE OF WATER 2.0 WIDE
(E)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE (RETAINING WALLS)
(E1)	EASEMENT FOR SUPPORT OVER RETAINING WALL 0.9 WIDE

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

Notes:
1. All inter-allotment drainage pits are to have drainage stubs installed to allow for future house connection.
2. All retaining wall subsoil lines are to have their own separate drainage connection independent of lot kerb outlets or pit stubs.

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

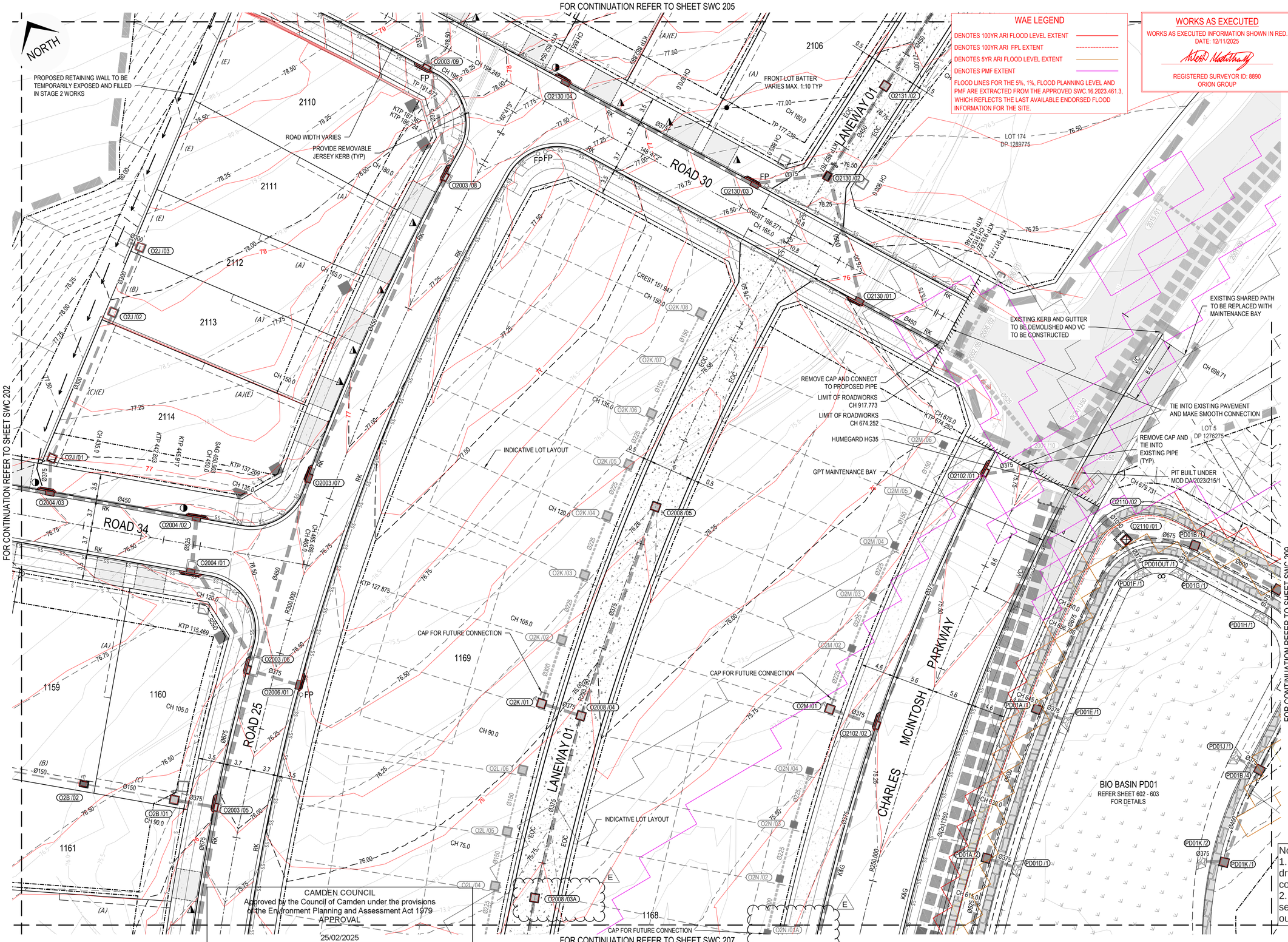
By: ORION
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title: ENGINEERING PLAN SHEET 06

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	205	C

FOR CONTINUATION REFER TO SHEET SWC 205



WAE LEGEND

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

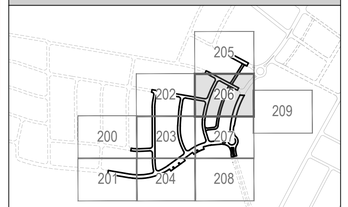
FLOOD LINES FOR THE 5%, 1%, FLOOD PLANNING LEVEL AND PMF ARE EXTRACTED FROM THE APPROVED SWC.16.2023.461.3, WHICH REFLECTS THE LAST AVAILABLE ENDORSED FLOOD INFORMATION FOR THE SITE.

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP

KEY PLAN



NOTE:

- REFER SHEETS SWC 700 - 710 FOR LOT BENCHING AND RETAINING WALL DETAILS.

LEGEND

- LIMIT OF WORKS BOUNDARY
- POST DEVELOPED PMF
- POST DEVELOPED FPL
- POST DEVELOPED 100YR FLOOD LEVEL
- POST DEVELOPED 20YR FLOOD LEVEL
- POST DEVELOPED 5YR FLOOD LEVEL
- DENOTES ROOF WATER CONNECTION TO KERB. REFER COUNCIL STANDARD
- DENOTES ROOF WATER CONNECTION TO REAR OF PIT. REFER COUNCIL STANDARD
- TYPE 1 - CONCRETE SLEEPER
- TYPE 2 - MASONRY BLOCK
- TYPE 3 - CONCRETE SLEEPER (SANDSTONE LOOK)
- TYPE 4 - TEMPORARY STACKED ROCK & TYPE 5 - SANDSTONE LOG
- PROPOSED SEWER
- 1.2m HIGH POST AND RAIL FENCING
- STUB FOR CONNECTION
- EXISTING STORMWATER CONSTRUCTED UNDER SEPARATE DA TO BE DEMOLISHED OR DECOMMISSIONED

EASEMENTS

(A)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE
(B)	EASEMENT FOR DRAINAGE OF WATER 1.5 WIDE
(C)	EASEMENT FOR DRAINAGE OF WATER 2.0 WIDE
(E)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE (RETAINING WALLS)
(E1)	EASEMENT FOR SUPPORT OVER RETAINING WALL 0.9 WIDE

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

Notes:
1. All inter-allotment drainage pits are to have drainage stubs installed to allow for future house connection.
2. All retaining wall subsoil lines are to have their own separate drainage connection independent of lot kerb outlets or pit stubs.

CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL
25/02/2025
SUBDIVISION WORKS CERTIFICATE
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
E	LMc	LMc	MP	MP	20/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
D	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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)

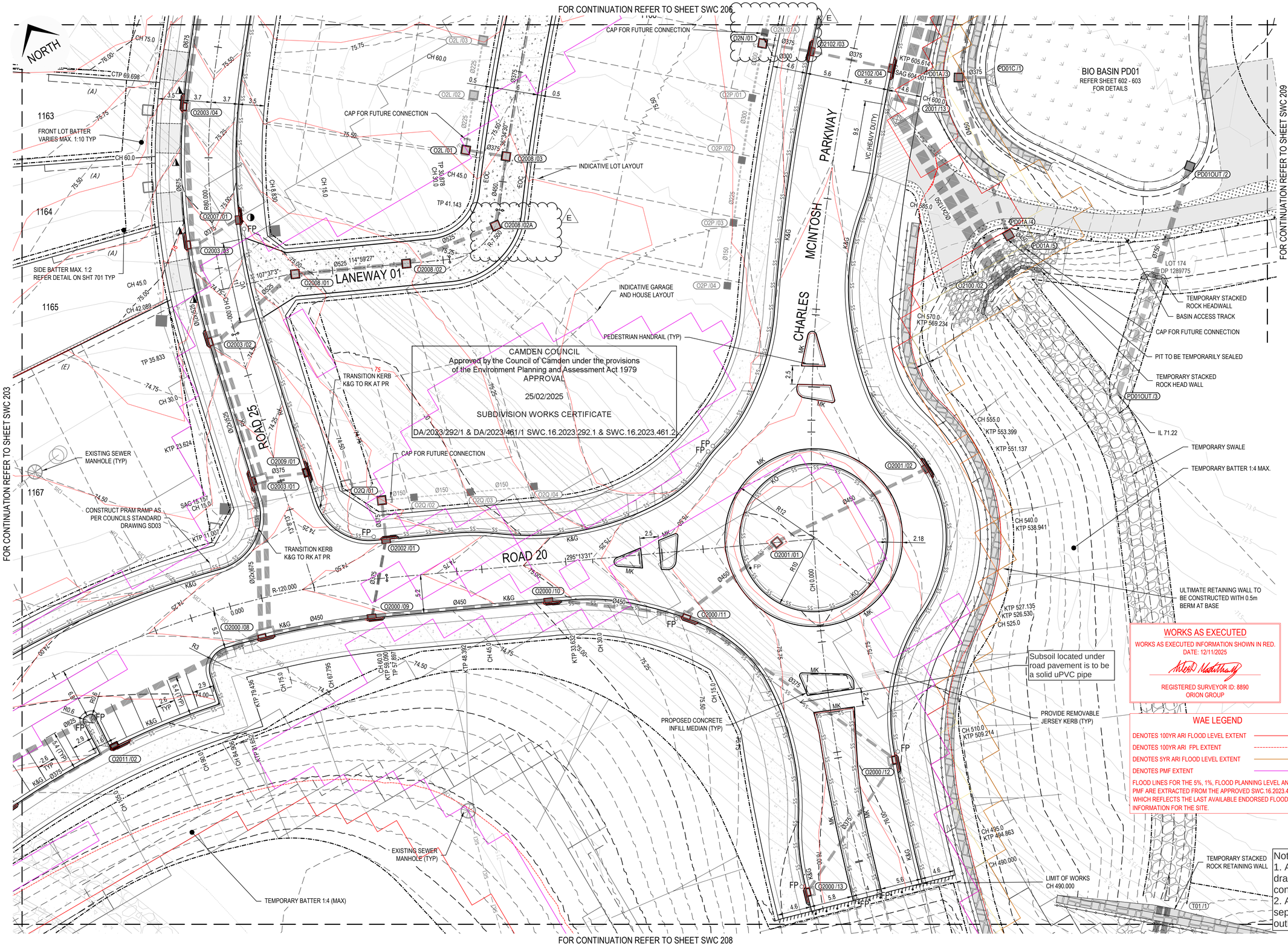
For: mirvac

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

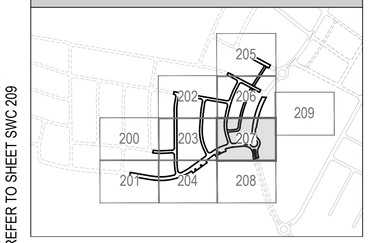
Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title: ENGINEERING PLAN SHEET 07

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	206	E



KEY PLAN



NOTE:

- REFER SHEETS SWC 700 - 710 FOR LOT BENCHING AND RETAINING WALL DETAILS.

LEGEND

LIMIT OF WORKS BOUNDARY	
POST DEVELOPED PMF POST DEVELOPED FPL POST DEVELOPED 100YR FLOOD LEVEL POST DEVELOPED 20YR FLOOD LEVEL POST DEVELOPED 5YR FLOOD LEVEL	
DENOTES ROOF WATER CONNECTION TO KERB. REFER COUNCIL STANDARD	
DENOTES ROOF WATER CONNECTION TO REAR OF PIT. REFER COUNCIL STANDARD	
TYPE 1 - CONCRETE SLEEPER	
TYPE 2 - MASONRY BLOCK	
TYPE 3 - CONCRETE SLEEPER (SANDSTONE LOOK)	
TYPE 4 - TEMPORARY STACKED ROCK & TYPE 5 - SANDSTONE LOG	
PROPOSED SEWER	S
1.2m HIGH POST AND RAIL FENCING	
STUB FOR CONNECTION	
EXISTING STORMWATER CONSTRUCTED UNDER SEPARATE DA TO BE DEMOLISHED OR DECOMMISSIONED	

EASEMENTS

(A)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE
(B)	EASEMENT FOR DRAINAGE OF WATER 1.5 WIDE
(C)	EASEMENT FOR DRAINAGE OF WATER 2.0 WIDE
(E)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE (RETAINING WALLS)
(E1)	EASEMENT FOR SUPPORT OVER RETAINING WALL 0.9 WIDE

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP

WAE LEGEND

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

FLOOD LINES FOR THE 5%, 1%, FLOOD PLANNING LEVEL AND PMF ARE EXTRACTED FROM THE APPROVED SWC.16.2023.461.3, WHICH REFLECTS THE LAST AVAILABLE ENDORSED FLOOD INFORMATION FOR THE SITE.

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

Notes:
1. All inter-allotment drainage pits are to have drainage stubs installed to allow for future house connection.
2. All retaining wall subsoil lines are to have their own separate drainage connection independent of lot kerb outlets or pit stubs.

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
E	LMc	LMc	MP	MP	20/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
D	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

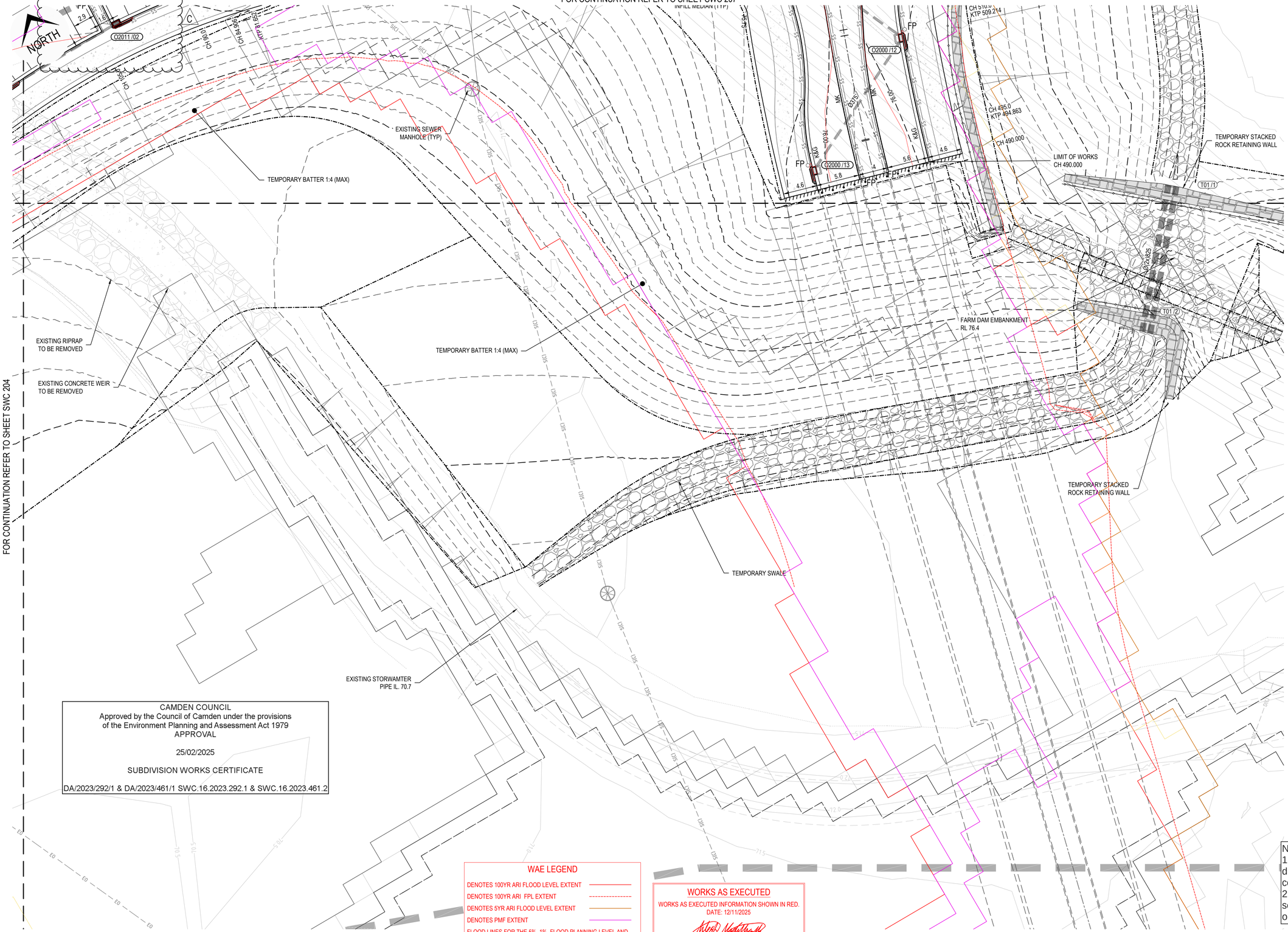
Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ENGINEERING PLAN SHEET 08

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	207	E

FOR CONTINUATION REFER TO SHEET SWC 207

FOR CONTINUATION REFER TO SHEET SWC 204



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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

WAE LEGEND

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

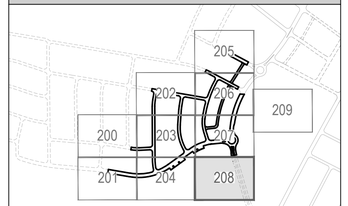
FLOOD LINES FOR THE 5%, 1%, FLOOD PLANNING LEVEL AND PMF ARE EXTRACTED FROM THE APPROVED SWC.16.2023.461.3, WHICH REFLECTS THE LAST AVAILABLE ENDORSED FLOOD INFORMATION FOR THE SITE.

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP

KEY PLAN



NOTE:

- REFER SHEETS SWC 700 - 710 FOR LOT BENCHING AND RETAINING WALL DETAILS.

LEGEND

- LIMIT OF WORKS BOUNDARY
- POST DEVELOPED PMF
- POST DEVELOPED FPL
- POST DEVELOPED 100YR FLOOD LEVEL
- POST DEVELOPED 20YR FLOOD LEVEL
- POST DEVELOPED 5YR FLOOD LEVEL
- DENOTES ROOF WATER CONNECTION TO KERB. REFER COUNCIL STANDARD
- DENOTES ROOF WATER CONNECTION TO REAR OF PIT. REFER COUNCIL STANDARD
- TYPE 1 - CONCRETE SLEEPER
- TYPE 2 - MASONRY BLOCK
- TYPE 3 - CONCRETE SLEEPER (SANDSTONE LOOK)
- TYPE 4 - TEMPORARY STACKED ROCK & TYPE 5 - SANDSTONE LOG
- PROPOSED SEWER
- 1.2m HIGH POST AND RAIL FENCING
- STUB FOR CONNECTION
- EXISTING STORMWATER CONSTRUCTED UNDER SEPARATE DA TO BE DEMOLISHED OR DECOMMISSIONED

EASEMENTS

(A)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE
(B)	EASEMENT FOR DRAINAGE OF WATER 1.5 WIDE
(C)	EASEMENT FOR DRAINAGE OF WATER 2.0 WIDE
(E)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE (RETAINING WALLS)
(E1)	EASEMENT FOR SUPPORT OVER RETAINING WALL 0.9 WIDE

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

Notes:
1. All inter-allotment drainage pits are to have drainage stubs installed to allow for future house connection.
2. All retaining wall subsoil lines are to have their own separate drainage connection independent of lot kerb outlets or pit stubs.

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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)

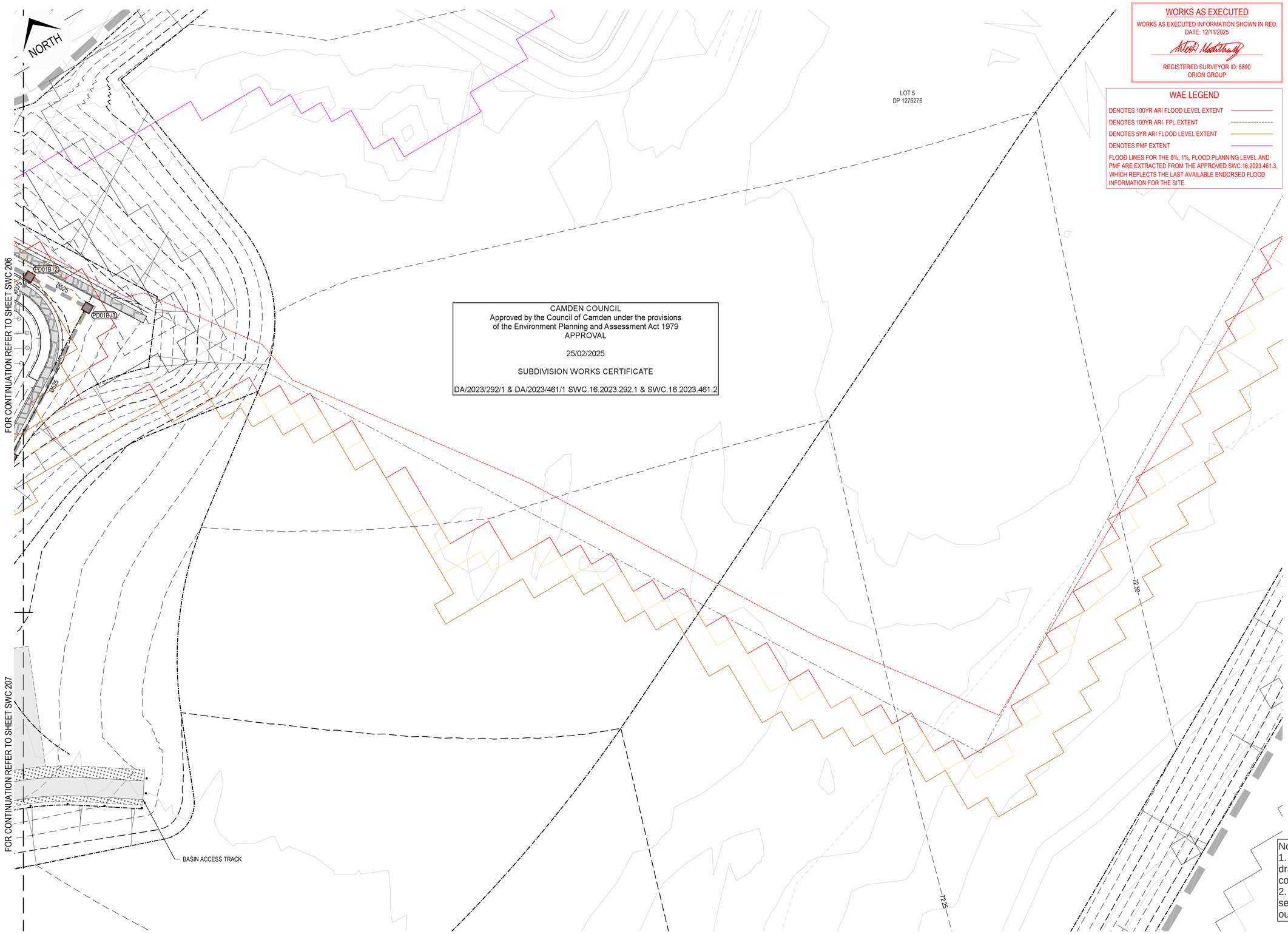
For: mirvac

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

Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ENGINEERING PLAN SHEET 09

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	208	C



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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

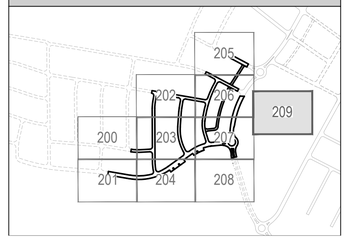
REGISTERED SURVEYOR ID: 8890
ORION GROUP

WAE LEGEND

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

FLOOD LINES FOR THE 5%, 1%, FLOOD PLANNING LEVEL AND PMF ARE EXTRACTED FROM THE APPROVED SWC.16.2023.461.3, WHICH REFLECTS THE LAST AVAILABLE ENDORSED FLOOD INFORMATION FOR THE SITE.

KEY PLAN



NOTE:

- REFER SHEETS SWC 700 - 710 FOR LOT BENCHING AND RETAINING WALL DETAILS.

LEGEND

LIMIT OF WORKS BOUNDARY	
POST DEVELOPED PMF POST DEVELOPED FPL POST DEVELOPED 100YR FLOOD LEVEL POST DEVELOPED 20YR FLOOD LEVEL POST DEVELOPED 5YR FLOOD LEVEL	
DENOTES ROOF WATER CONNECTION TO KERB. REFER COUNCIL STANDARD	
DENOTES ROOF WATER CONNECTION TO REAR OF PIT. REFER COUNCIL STANDARD	
TYPE 1 - CONCRETE SLEEPER	
TYPE 2 - MASONRY BLOCK	
TYPE 3 - CONCRETE SLEEPER (SANDSTONE LOOK)	
TYPE 4 - TEMPORARY STACKED ROCK & TYPE 5 - SANDSTONE LOG	
PROPOSED SEWER	S
1.2m HIGH POST AND RAIL FENCING	
EXISTING STORMWATER CONSTRUCTED UNDER SEPARATE DA TO BE DEMOLISHED OR DECOMMISSIONED	

EASEMENTS

(A)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE
(B)	EASEMENT FOR DRAINAGE OF WATER 1.5 WIDE
(C)	EASEMENT FOR DRAINAGE OF WATER 2.0 WIDE
(E)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE (RETAINING WALLS)
(E1)	EASEMENT FOR SUPPORT OVER RETAINING WALL 0.9 WIDE

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

Notes:
1. All inter-allotment drainage pits are to have drainage stubs installed to allow for future house connection.
2. All retaining wall subsoil lines are to have their own separate drainage connection independent of lot kerb outlets or pit stubs.

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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)

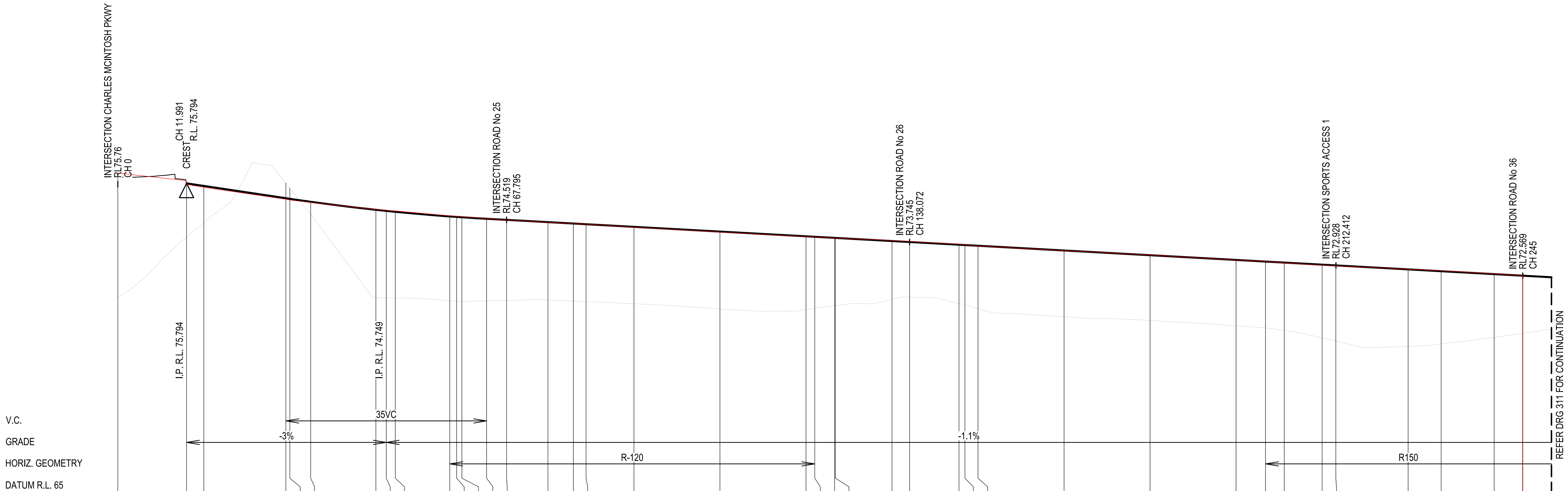
For: mirvac

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

Project:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title:
ENGINEERING PLAN
SHEET 10

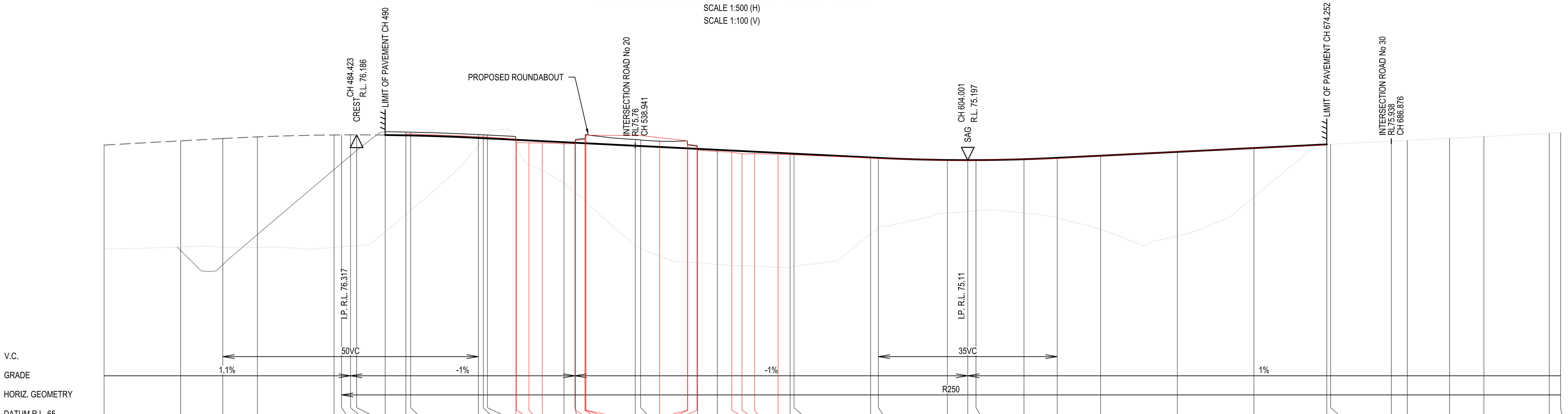
Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	209	B



CHAINAGE	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
0			71.82
11.991	75.89	75.794	73.92
15	75.65	75.704	74.423
29.308	75.24	75.274	75.804
30	75.21	75.254	75.628
33.632	75.12	75.15	74.702
45	74.88	74.87	71.797
46.808	74.86	74.832	71.793
48.392	74.83	74.801	71.79
57.897		74.639	71.697
59.09	74.64	74.622	71.679
60	74.63	74.609	71.669
64.308	74.57	74.557	71.691
67.795	74.52	74.519	71.707
75	74.43	74.439	71.725
79.436	74.38	74.39	71.683
81.652	74.37	74.366	71.667
90	74.26	74.274	71.593
105	74.09	74.109	71.407
120	73.93	73.944	71.382
121.535	73.92	73.927	71.43
124.985	73.88	73.889	71.523
125.129	73.88	73.888	71.526
135	73.80	73.779	71.739
138.072	73.77	73.745	71.821
146.679	73.67	73.651	71.604
147.717	73.65	73.639	71.546
150	73.61	73.614	71.416
165	73.45	73.449	71.135
180	73.29	73.284	71.008
195	73.11	73.119	70.82
200.129	73.07	73.063	70.746
203.401	73.02	73.027	70.66
210	72.93	72.954	70.397
212.391	72.91	72.928	70.286
225	72.79	72.789	70.1
230.76	72.75	72.726	70.188
240	72.64	72.624	70.42
245	72.57	72.569	70.555
250		72.514	70.711

LONGITUDINAL SECTION - ROAD No 20

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



CHAINAGE	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
435		75.787	71.716
450		75.952	71.795
458.233		76.042	71.786
465		76.107	71.783
480		76.182	71.779
481.483		76.185	71.802
483.233		76.186	71.829
484.423		76.186	71.848
490		76.18	72.387
494.067	76.23	76.167	73.066
495	76.22	76.163	73.224
508.233	76.12	76.067	75.744
509.214	76.11	76.058	75.97
510	76.10	76.05	76.152
515.57	76.02		
515.73	75.89		
518.14	75.87		
520.74	75.88		
525	75.83	75.9	74.31
527.135		75.878	73.934
527.26	75.96		
529.09	76.01		
529.15	76.17		
529.30	76.17		
538.941	76.15	75.76	71.82
540	76.16	75.75	71.729
549.05	75.95		
549.16	75.95		
549.21	75.79		
551.00	75.73		
551.137	75.59	75.638	71.174
555	75.53	75.6	71.113
557.81	75.51		
559.83	75.44		
562.29	75.45		
566.88	75.42		
569.234	75.42	75.457	71.006
570	75.41	75.45	71.042
585	75.28	75.3	72.306
586.5	75.27	75.285	72.531
600	75.19	75.202	73.13
604	75.19	75.197	73.183
605.614	75.20	75.198	73.207
615	75.23	75.232	73.131
621.5	75.27	75.285	72.926
630	75.37	75.37	72.477
645	75.53	75.52	72.219
660	75.67	75.67	73.758
674.252	75.80	75.812	75.812
675			75.82
686.876			75.938
690			75.97
698.282			76.052
705			76.12
717.775			76.247
720			76.27

LONGITUDINAL SECTION - CHARLES MCINTOSH PKWY

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

LEGEND

- DESIGN SURFACE
- STAGE 1 SURFACE
- EXISTING SURFACE
- FUTURE SURFACE

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
[signature]
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
25/02/2025
SUBDIVISION WORKS CERTIFICATE
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title:
ROAD LONGITUDINAL SECTIONS
SHEET 01

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	310	B

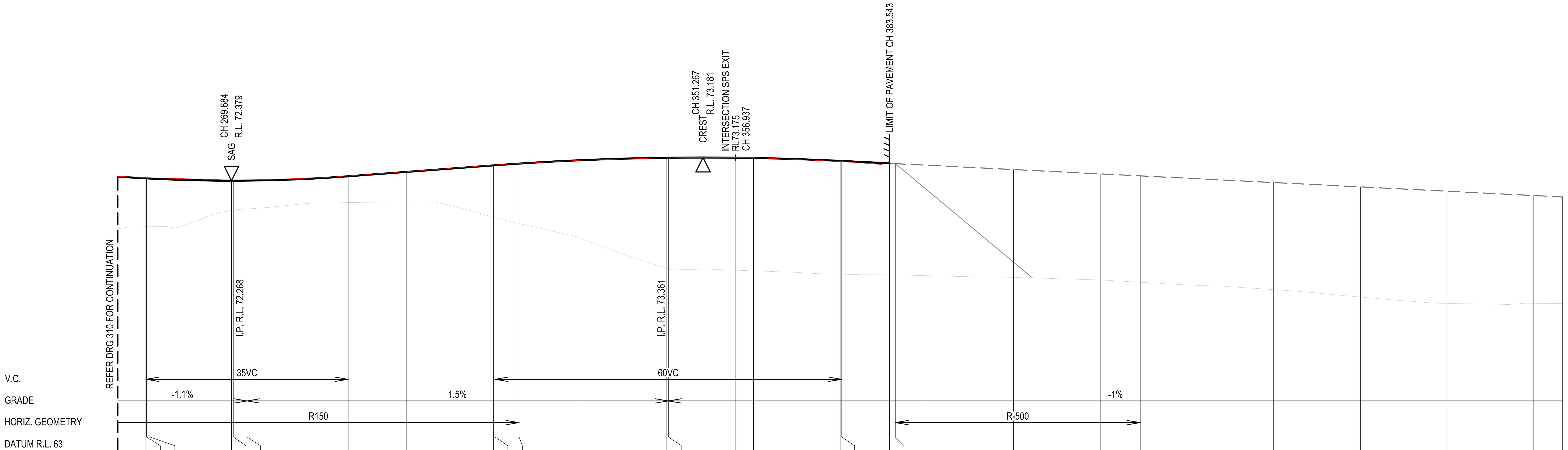
LEGEND

DESIGN SURFACE	(solid heavy line)
STAGE 1 SURFACE	(thin line)
EXISTING SURFACE	(faint line)
FUTURE SURFACE	(dashed line)

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP



CHAINAGE	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
250		72.514	70.711
254.877	72.49	72.461	70.786
255	72.48	72.459	70.786
255.57	72.48	72.453	70.787
269.684	72.40	72.379	71.349
270	72.40	72.379	71.361
272.377	72.40	72.382	71.4
285	72.47	72.466	71.606
289.877	72.54	72.531	71.621
300	72.69	72.682	71.642
315	72.92	72.907	71.112
315.267	72.92	72.911	71.096
319.441	72.97	72.97	70.895
330	73.08	73.087	70.386
345	73.17	73.173	69.34
345.267	73.17	73.174	69.322
351.267	73.19	73.181	69.316
356.937	73.18	73.175	69.277
360	73.18	73.166	69.255
375	73.05	73.064	69.14
375.267	73.04	73.061	69.139
382.25 / 383.543	72.94	72.979	69.117
384.535		72.969	69.115
390		72.914	69.09
405		72.764	69.027
408.184		72.732	69.009
420		72.614	68.939
426.916		72.545	68.861
435		72.464	68.769
450		72.314	68.605
465		72.164	68.349
480		72.014	68.128
495		71.864	68.131
500		71.814	68.121

LONGITUDINAL SECTION - ROAD No 20

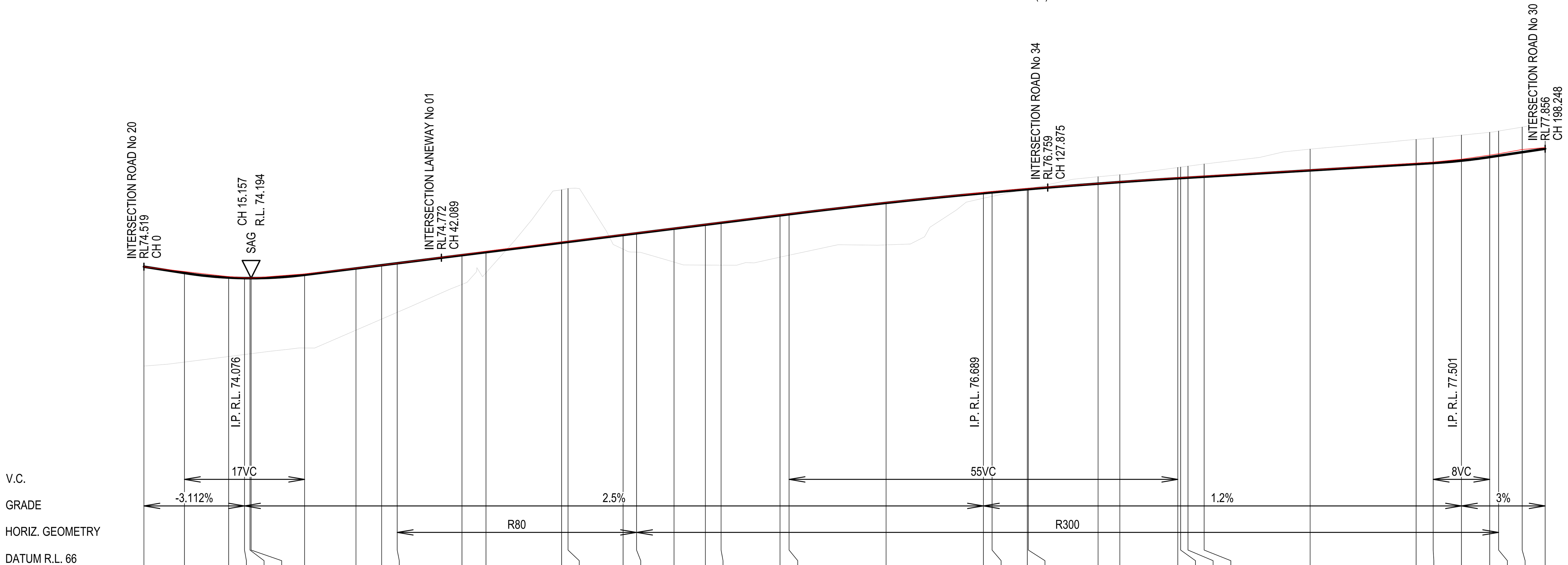
SCALE 1:500 (H)
SCALE 1:100 (V)

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



CHAINAGE	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
0	74.52	74.519	71.707
5.731	74.38	74.34	71.821
11.991	74.24	74.21	71.978
14.231	74.21	74.195	72.035
15	74.20	74.194	72.054
15.157	74.20	74.194	72.058
22.731	74.32	74.288	72.219
30	74.48	74.47	72.723
33.632	74.56	74.561	73.037
35.833	74.62	74.616	73.227
45	74.86	74.845	74.017
48.392	74.96	74.93	74.328
59.09	75.22	75.197	76.694
60	75.24	75.22	76.73
67.795	75.42	75.415	75.015
69.698	75.48	75.462	74.932
75	75.61	75.595	74.649
79.436	75.72	75.706	74.569
81.652	75.78	75.761	74.567
90	75.99	75.97	74.79
91.276	76.02	76.002	74.846
105	76.34	76.323	75.137
118.776	76.62	76.6	76.456
120	76.64	76.622	76.509
124.985	76.72	76.71	76.721
125.129	76.73	76.713	76.727
135	76.87	76.869	77.065
138.072	76.92	76.913	77.121
146.276	77.03	77.019	77.328
146.679	77.04	77.024	77.339
147.717	77.07	77.037	77.365
150	77.08	77.064	77.424
165	77.25	77.244	77.846
180	77.44	77.424	78.121
182.41	77.47	77.453	78.164
186.41	77.55	77.519	78.245
190.41	77.67	77.621	78.322
191.672	77.71	77.659	78.358
195	77.83	77.759	78.47
198.249	77.88	77.856	78.575

LONGITUDINAL SECTION - ROAD No 25

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

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title:
ROAD LONGITUDINAL SECTIONS
SHEET 02

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	311	B

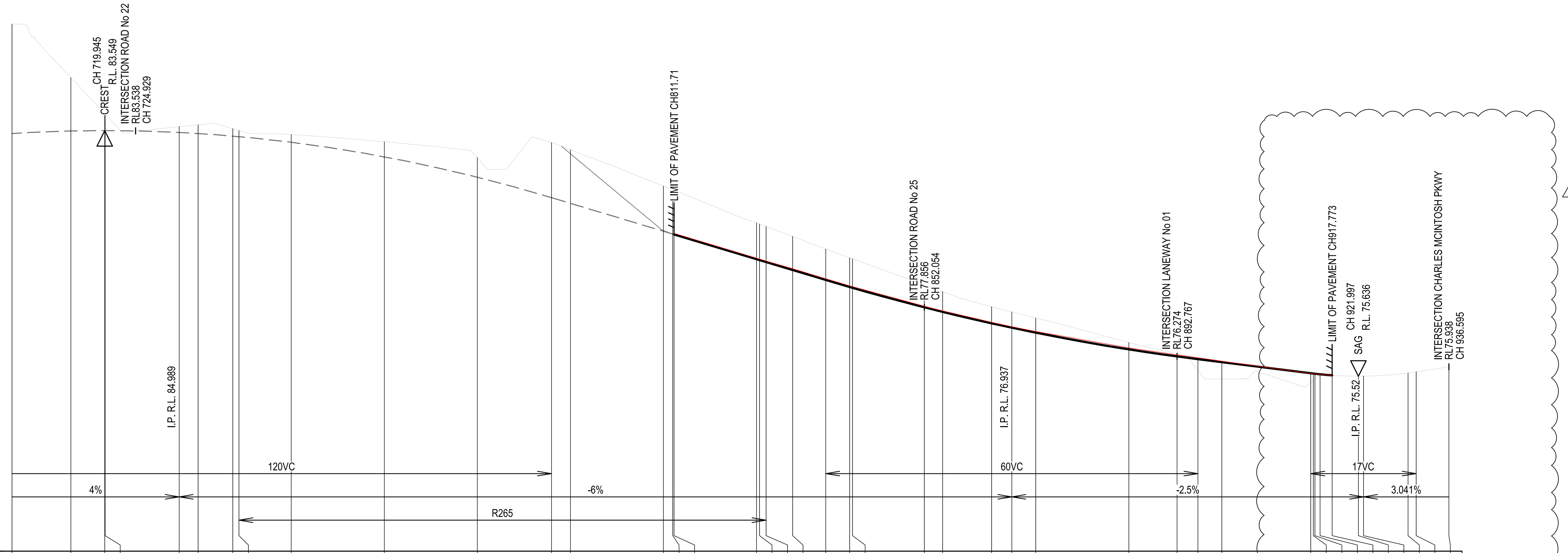
LEGEND

- DESIGN SURFACE
- STAGE 1 SURFACE
- EXISTING SURFACE
- FUTURE SURFACE

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP



W.A.E.														
DESIGN LEVEL	83.456	83.536	83.549	83.549	83.489	83.454	83.371	83.354	83.172	82.703	82.046	81.389	81.206	80.306
EXISTING LEVEL	86.98	85.253	84.097	84.085	83.677	83.734	83.609	83.552	83.419	83.189	82.673	83.164	82.935	81.76
CHAINAGE	705	714.489	719.945	720	731.945	735	740.594	741.576	750	765	780	791.945	795	810

W.A.E.		80.23	79.43	79.40	79.34	79.09	78.77	78.54	78.51	77.88	77.73	77.36	77.22	77.07
DESIGN LEVEL	80.216	80.203	79.406	79.376	79.314	79.056	78.737	78.51	78.482	77.856	77.709	77.341	77.199	77.04
EXISTING LEVEL	81.641	81.625	80.573	80.538	80.461	80.137	79.734	79.451	79.416	78.575	78.359	77.876	77.705	77.512
CHAINAGE	811.5	811.71	825	825.494	826.534	830.819	836.148	840	840.476	852.054	855	862.889	866.148	870

W.A.E.	76.54	76.31	76.22	76.11	75.71	75.70	75.70	75.70	75.64					
DESIGN LEVEL	76.502	76.275	76.187	76.09	75.732	75.722	75.716	75.698	75.665	75.636	75.637	75.741	75.778	75.938
EXISTING LEVEL	76.722	76.364	75.821	75.548	75.436	75.506	75.548	75.686	75.662	75.636	75.638	75.741	75.778	75.938
CHAINAGE	885	892.767	896.148	900	914.327	914.746	915	915.827	917.773	921.997	922.827	930	931.327	936.595

LONGITUDINAL SECTION - ROAD No 30

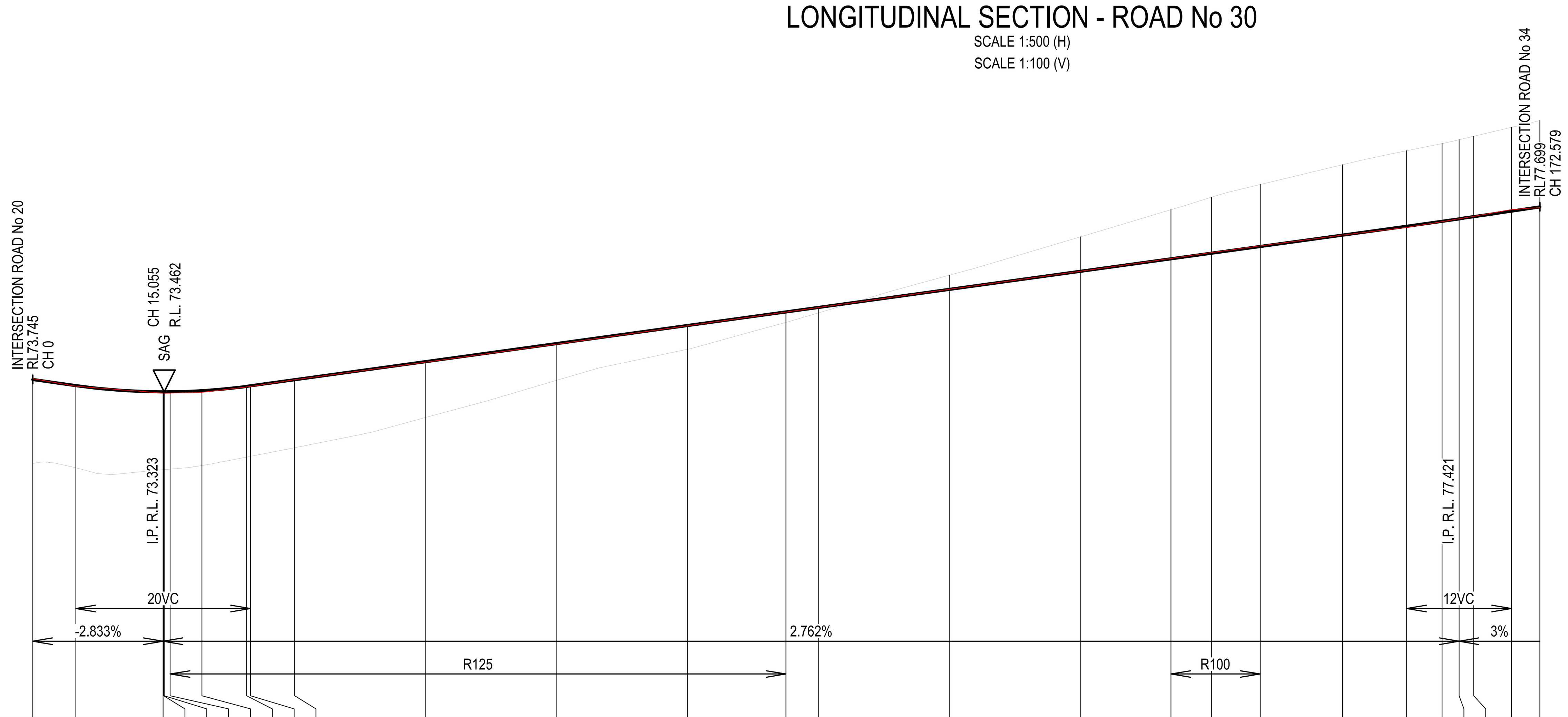
SCALE 1:500 (H)
SCALE 1:100 (V)

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



W.A.E.	73.77	73.59	73.44	73.44	73.44	73.43	73.45	73.58	73.59	73.74	74.15	74.56	74.98	75.29
DESIGN LEVEL	73.745	73.606	73.462	73.462	73.462	73.463	73.489	73.587	73.599	73.739	74.153	74.567	74.982	75.292
EXISTING LEVEL	71.821	71.725	71.679	71.681	71.682	71.693	71.774	71.967	71.984	72.184	72.875	73.728	74.438	75.053
CHAINAGE	0	4.928	14.928	15	15.055	15.739	19.379	24.489	24.928	30	45	60	75	86.249

W.A.E.	75.40	75.81	76.23	76.52	76.66	76.81	77.06	77.23	77.36	77.43	77.48	77.64	77.69
DESIGN LEVEL	75.396	75.81	76.225	76.51	76.639	76.792	77.053	77.256	77.369	77.425	77.473	77.601	77.699
EXISTING LEVEL	75.272	76.137	77.013	77.633	77.921	78.212	78.665	78.985	79.15	79.238	79.317	79.521	79.673
CHAINAGE	90	105	120	130.328	135	140.552	150	157.329	161.379	163.329	165	169.329	172.579

LONGITUDINAL SECTION - ROAD No 26

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

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title:
ROAD LONGITUDINAL SECTIONS
SHEET 03

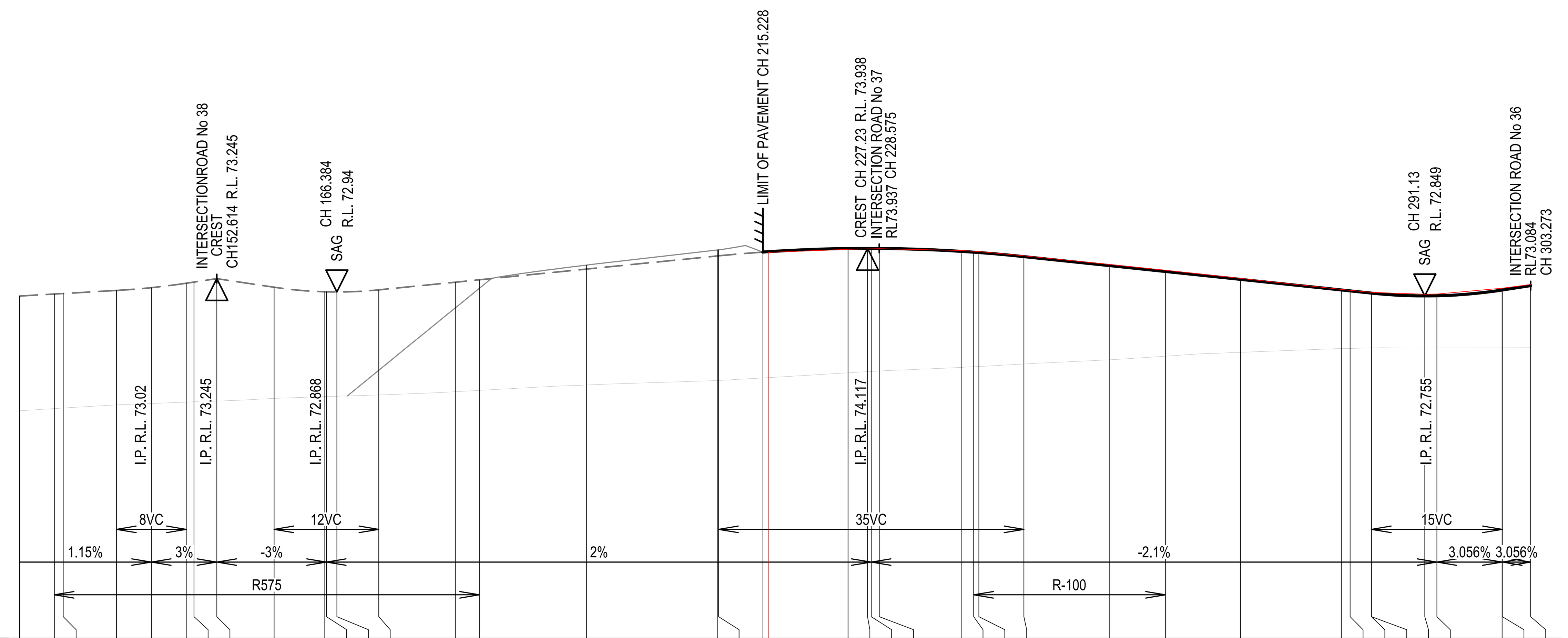
Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	312	B

LEGEND	
DESIGN SURFACE	(solid heavy line)
STAGE 1 SURFACE	(thin line)
EXISTING SURFACE	(faint line)
FUTURE SURFACE	(dashed line)

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP



CHAINAGE	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
130		72.846	70.217
133.988		72.892	70.267
135		72.904	70.28
141.115		72.974	70.355
145.115		73.039	70.387
149.115		73.14	70.416
150		73.167	70.422
152.614		73.245	70.441
159.184		73.048	70.503
165		72.944	70.543
165.184		72.943	70.544
166.384		72.94	70.552
171.184		72.988	70.582
180		73.164	70.655
182.726		73.219	70.685
195		73.464	70.808
210		73.764	70.911
210.157		73.767	70.913
215.228		73.854	70.969
215.85	73.85		
225	73.92	73.935	71.087
227.23	73.93	73.938	71.114
227.657	73.93	73.938	71.119
228.575	73.93	73.937	71.13
237.973	73.89	73.871	71.212
239.404	73.87	73.851	71.226
240	73.87	73.843	71.232
245.157	73.77	73.75	71.287
255	73.57	73.543	71.385
261.383	73.44	73.409	71.467
270	73.25	73.228	71.557
281.553	73.00	72.986	71.642
282.573	72.98	72.964	71.647
285	72.93	72.913	71.657
285.02	72.93	72.913	71.657
291.13	72.89	72.849	71.654
292.52	72.89	72.852	71.655
300	73.03	72.984	71.66
300.02	73.03	72.985	71.66
303.273	73.11	73.084	71.662

LONGITUDINAL SECTION - ROAD No 35

SCALE 1:500 (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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

CHAINAGE	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
270		77.331	80.346
285		77.743	80.642
295.298		78.026	80.688
300		78.156	80.718
301.77	78.19	78.204	80.729
315	78.49	78.495	80.812
321.09	78.58	78.58	80.843
330	78.64	78.649	80.808
331.77	78.64	78.654	80.802
334.77	78.64	78.658	80.79
345	78.61	78.614	80.685
360	78.37	78.393	80.468
361.77	78.33	78.354	80.428
375	78.06	78.057	80.128
375.275	78.05	78.05	80.122
390	77.70	77.719	79.703
400.808	77.48	77.476	79.37
405	77.39	77.382	79.208
420	77.05	77.044	78.613
435	76.70	76.707	77.958
445.948	76.46	76.46	77.44
450	76.45	76.406	77.243
450.903	76.45	76.405	77.202
451.315	76.45	76.405	77.192
451.948	76.45	76.407	77.176
457.948	76.53	76.517	77.022
458.179	76.54	76.525	77.016
465	76.76	76.743	76.855
465.488	76.77	76.759	76.844

LONGITUDINAL SECTION - ROAD No 34

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

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title:
ROAD LONGITUDINAL SECTIONS
SHEET 04

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	313	B

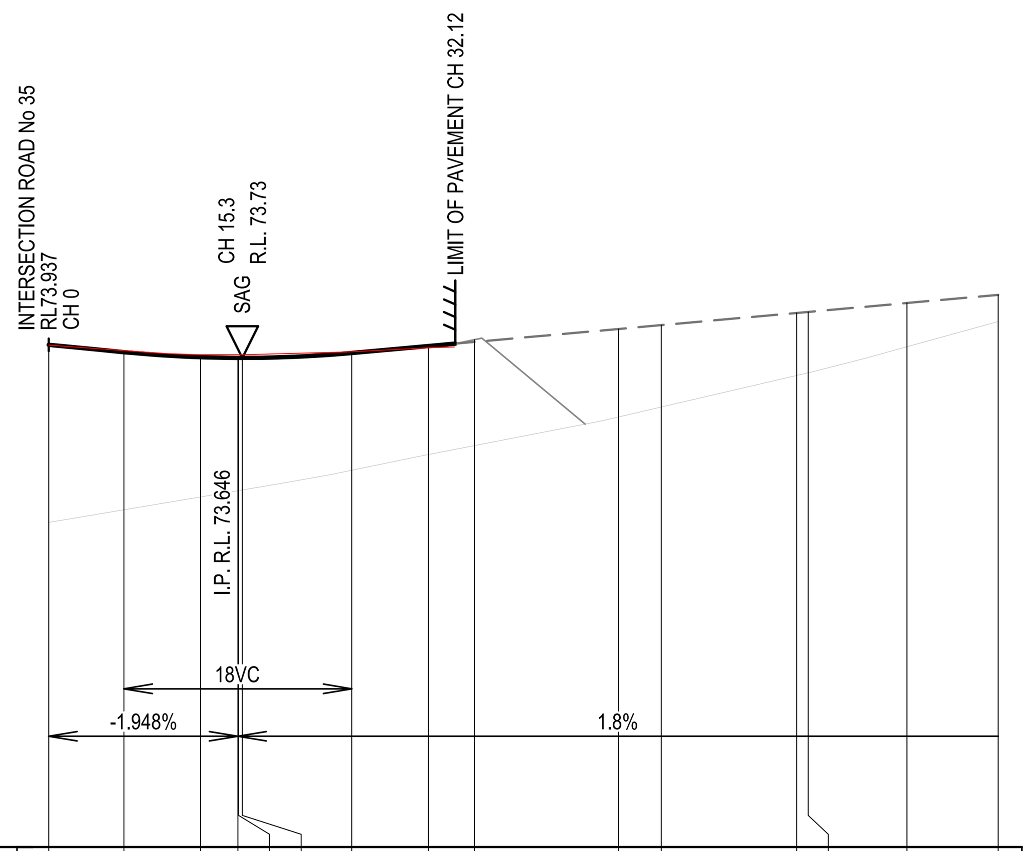
LEGEND

DESIGN SURFACE	(solid heavy line)
STAGE 1 SURFACE	(thin line)
EXISTING SURFACE	(faint line)
FUTURE SURFACE	(dashed line)

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP



CHAINAGE	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
0	73.93	73.937	71.13
5.944	73.85	73.821	71.33
11.991	73.78	73.742	71.532
14.944	73.78	73.73	71.631
15	73.78	73.73	71.633
15.3	73.78	73.73	71.643
23.944	73.82	73.808	71.954
30	73.89	73.917	72.203
33.632	73.90	73.982	72.344
45		74.187	72.795
48.392		74.248	72.953
59.09		74.441	73.452
60		74.457	73.495
67.795		74.597	73.907
75		74.727	74.305

LONGITUDINAL SECTION - ROAD No 37

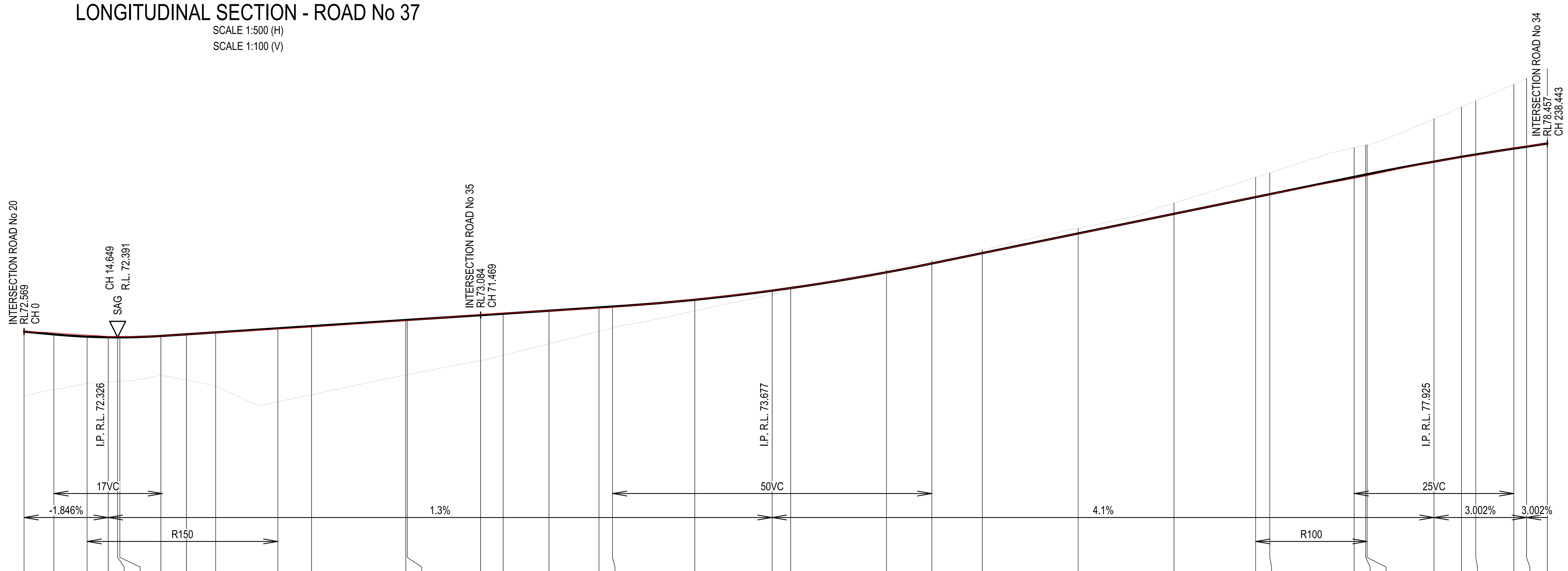
SCALE 1:500 (H)
SCALE 1:100 (V)

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



CHAINAGE	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
0	72.57	72.569	70.555
4.675	72.53	72.483	70.759
9.866	72.46	72.412	70.955
13.175	72.42	72.393	70.996
14.649	72.42	72.391	71.01
15	72.41	72.391	71.013
21.418	72.43	72.433	71.201
25.427	72.48	72.485	71.056
30	72.54	72.545	70.855
39.737	72.65	72.671	70.374
45	72.71	72.74	70.595
59.75	72.91	72.932	71.21
60	72.92	72.935	71.22
71.469	73.11	73.084	71.662
75	73.15	73.13	71.824
82.173	73.22	73.223	72.181
90	73.30	73.325	72.571
92.104	73.33	73.352	72.676
105	73.57	73.566	73.215
117.104	73.85	73.852	73.748
120	73.93	73.933	73.881
	74.31		
135	74.42	74.425	74.501
142.104	74.70	74.702	74.783
150	75.02	75.026	75.125
165	75.64	75.641	75.806
180	76.26	76.256	76.594
192.786	76.79	76.78	77.396
195	76.87	76.871	77.537
208.206	77.37	77.412	78.322
210	77.44	77.485	78.408
210.242	77.45	77.495	78.42
220.706	77.89	77.891	79.229
225	78.03	78.039	79.6
227.243	78.10	78.113	79.794
233.206	78.31	78.3	80.309
235.193	78.39	78.36	80.497
238.443	78.45	78.457	80.798

LONGITUDINAL SECTION - ROAD No 36

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

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

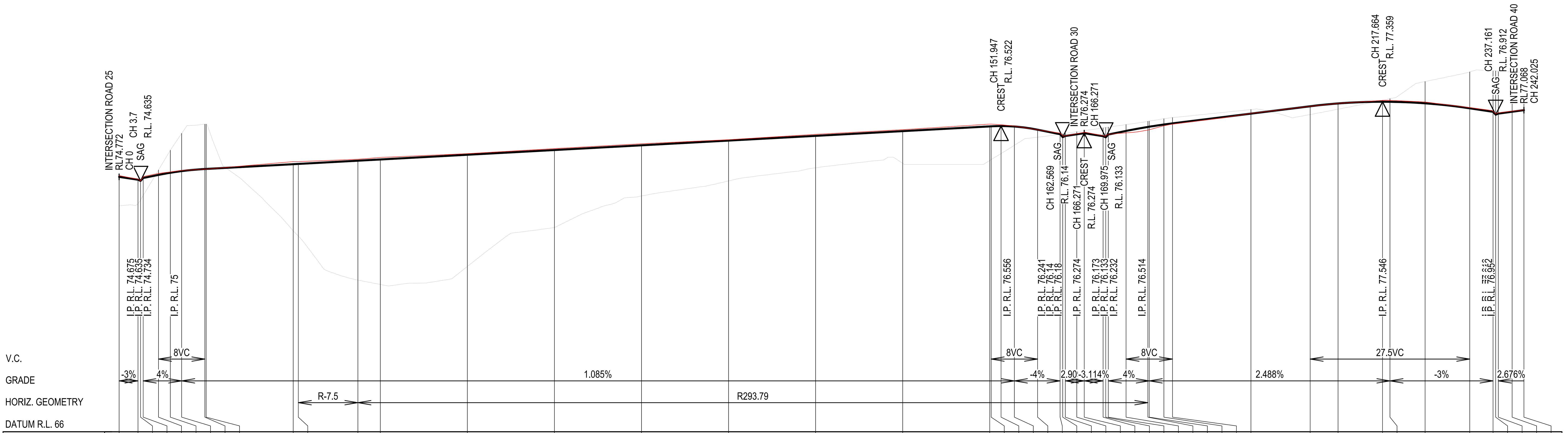
By: ORION

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

Project:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title:
ROAD LONGITUDINAL SECTIONS
SHEET 05

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	314	B



CHAINAGE	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
0	74.82	74.772	73.774
3.25	74.69	74.675	73.852
3.7	74.64 / 74.67	74.635	73.981
4.15	74.79	74.734	74.131
6.782	74.89	74.84	75.007
8.83	74.94	74.914	75.689
10.782	75.00	74.971	76.269
14.782	75.04	75.043	76.583
15	75.04	75.045	76.583
30	75.30	75.208	72.913
30.878	75.30	75.218	72.736
41.143	75.38	75.329	71.219
45	75.44	75.371	71.071
60	75.57	75.534	71.688
75	75.75	75.696	73.032
90	75.91	75.859	74.114
105	76.05	76.022	74.635
120	76.24	76.184	75.085
135	76.40	76.347	75.228
150	76.59	76.51	75.338
150.24	76.59	76.513	75.368
151.947	76.57	76.522	75.58
154.24	76.53	76.505	75.868
158.24	76.39	76.396	76.139
162.119	76.28	76.241	76.241
162.569	76.21 / 76.18	76.14	76.255
163.019	76.19	76.18	76.268
165	76.26	76.238	76.326
166.271	76.32	76.274	76.364
169.524	76.19	76.173	76.458
169.975	76.17 / 76.20	76.133	76.471
170.426	76.24	76.232	76.484
173.479	76.29	76.354	76.572
177.238	76.38	76.491	76.683
177.479	76.40	76.499	76.691
180	76.53	76.574	76.773
181.479	76.59	76.613	76.813
195	76.96	76.95	77.09
205.197	77.20	77.203	76.918
210	77.31	77.3	77.101
217.664	77.41	77.359	77.41
218.947	77.41	77.357	77.463
225	77.35	77.305	78.053
232.697	77.16	77.133	78.385
236.711	77.06 / 76.97	77.013	78.422
237.161	76.94	76.912	78.417
237.612	76.98	76.95	78.412
240	77.04	77.014	78.384
242.025	77.08	77.068	78.361

LONGITUDINAL SECTION - LANEWAY 01

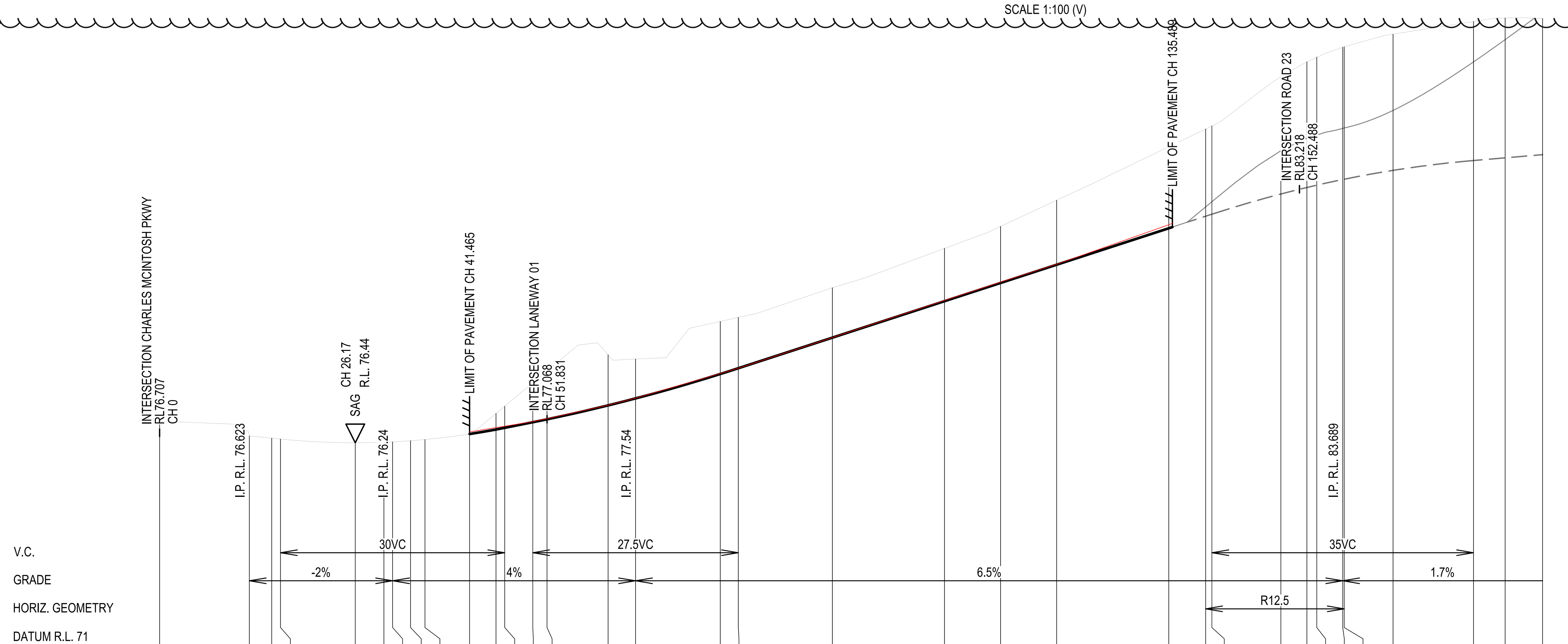
SCALE 1:500 (H)
SCALE 1:100 (V)

C

LEGEND	
DESIGN SURFACE	———
STAGE 1 SURFACE	———
EXISTING SURFACE	———
FUTURE SURFACE	— — — —

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
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
25/02/2025
SUBDIVISION WORKS CERTIFICATE
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



CHAINAGE	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
0			77.019
12			76.623
15			76.563
16.17			76.54
26.17			76.44
30			76.455
31.17			76.465
33.572			76.495
35.5			76.527
41.465	76.72	76.674	76.674
45	76.84	76.795	77.222
46.17	76.87	76.84	77.417
49.92	77.00	76.99	78.042
51.831	77.08	77.068	78.361
60	77.44	77.439	78.792
63.67	77.63	77.626	78.679
75	78.28	78.279	79.685
77.42	78.42	78.434	79.792
90	79.24	79.251	80.585
105	80.23	80.226	81.637
112.5	80.73	80.714	82.227
120	81.21	81.201	82.924
135	82.26	82.176	84.355
139.931	82.30	82.497	84.829
140.769		82.551	84.911
150		83.093	86.23
153.478		83.267	86.626
154.797		83.328	86.754
158.269		83.479	87.016
158.469		83.487	87.028
165		83.724	87.366
175.769		83.986	87.704
180		84.058	87.799
185		84.143	87.784

LONGITUDINAL SECTION - ROAD 40

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

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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:
591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title:
ROAD LONGITUDINAL SECTIONS SHEET 06

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	315	C

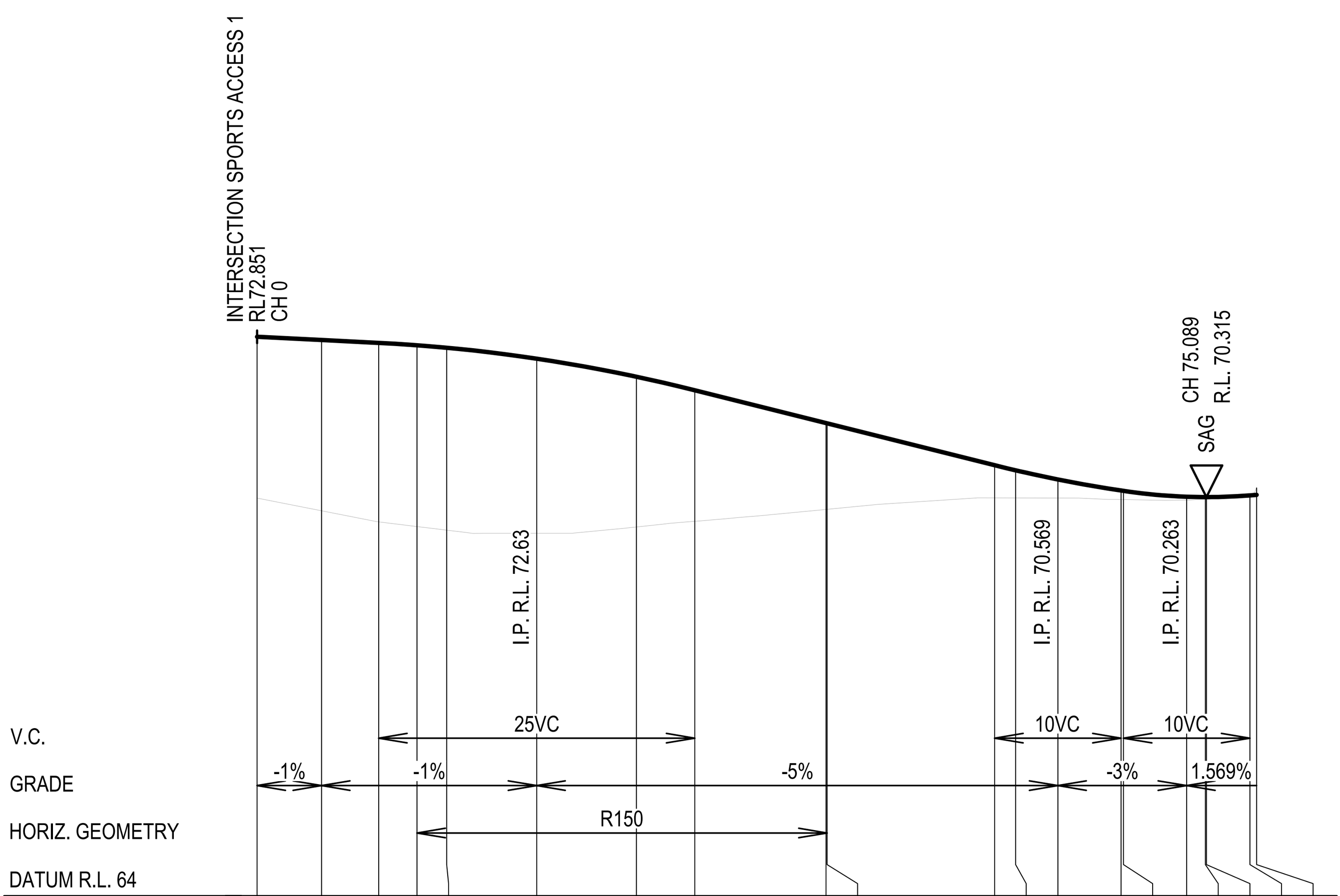
LEGEND

DESIGN SURFACE	(heavy solid line)
STAGE 1 SURFACE	(thin solid line)
EXISTING SURFACE	(faint line)
FUTURE SURFACE	(dashed line)

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

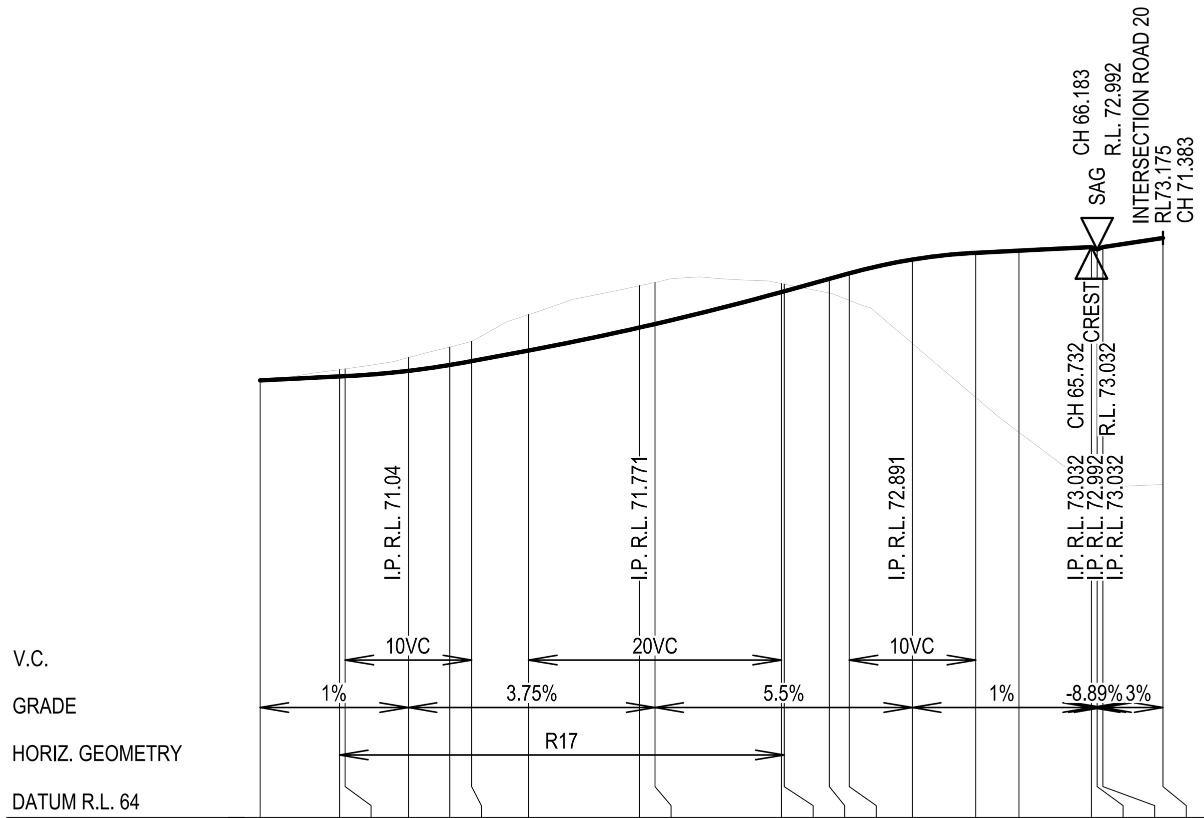
REGISTERED SURVEYOR ID: 8890
ORION GROUP



W.A.E.																				
DESIGN LEVEL	72.851	72.8	72.755	72.717	72.678	72.505	72.219	72.005	71.486	71.481	70.819	70.738	70.594	70.419	70.413	70.32	70.315	70.315	70.342	70.35
EXISTING LEVEL	70.298	70.097	69.922	69.849	69.792	69.742	69.841	69.931	70.118	70.12	70.303	70.302	70.299	70.276	70.275	70.267	70.283	70.283	70.346	70.459
CHAINAGE	0	5.1	9.621	12.644	15	22.121	30	34.621	45	45.087	58.338	60	63.338	68.338	68.523	73.523	75	75.089	78.523	79.054

LONGITUDINAL SECTION - SPS ENTRY

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



W.A.E.																				
DESIGN LEVEL	70.923	70.986	70.99	71.074	71.167	71.227	71.396	71.759	71.815	72.321	72.333	72.529	72.616	72.835	72.941	72.975	73.032	72.992	73.032	73.175
EXISTING LEVEL	70.924	71.093	71.105	71.283	71.45	71.54	71.962	72.419	72.471	72.453	72.445	72.304	72.189	71.507	70.653	70.103	69.241	69.234	69.238	69.277
CHAINAGE	0	6.28	6.729	11.729	15	16.729	21.223	30	31.223	41.223	41.437	45	46.583	51.583	56.583	60	65.732	66.183	66.633	71.383

LONGITUDINAL SECTION - SPS EXIT

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

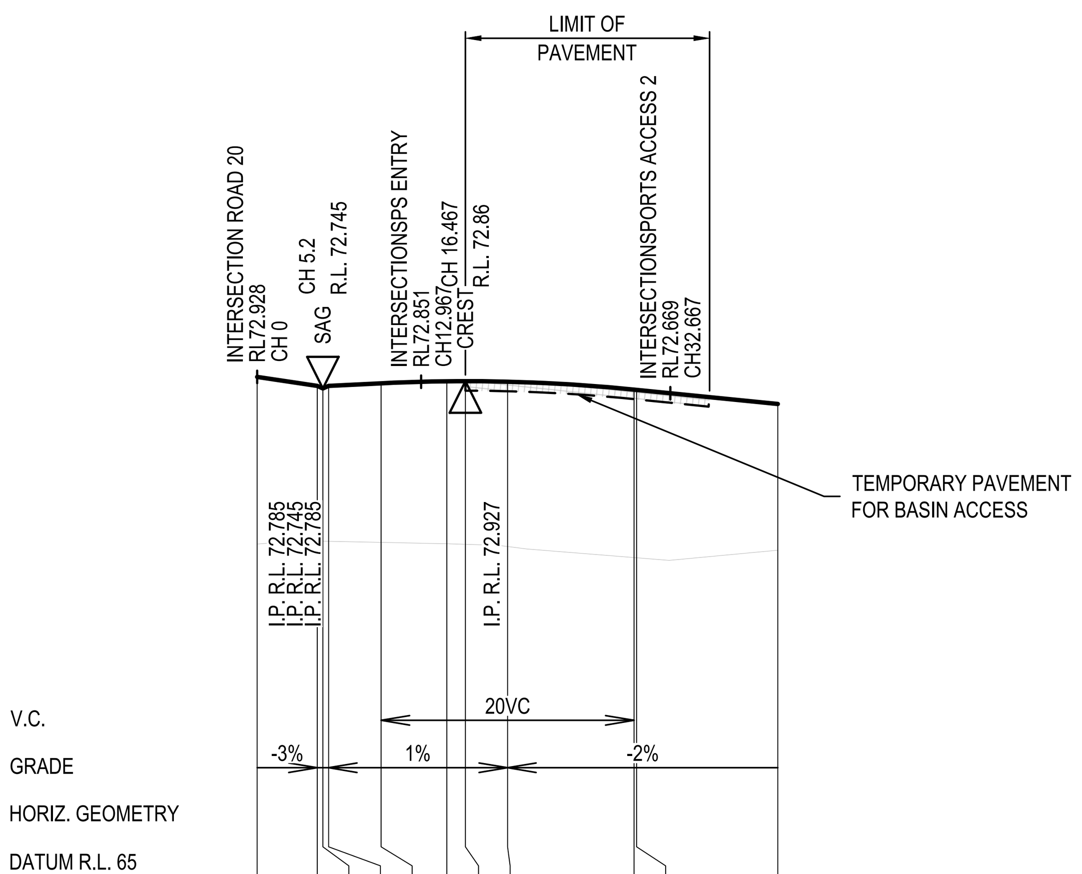
C

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

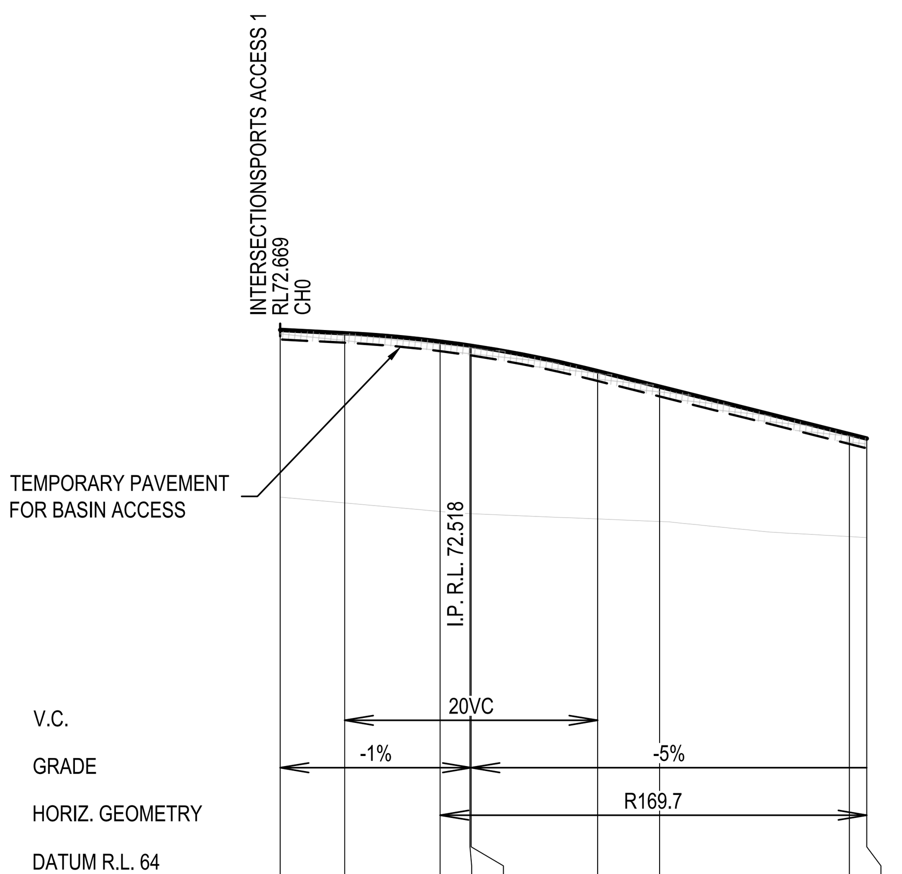
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



W.A.E.											
DESIGN LEVEL	72.928	72.785	72.745	72.785	72.827	72.858	72.86	72.852	72.727	72.723	72.499
EXISTING LEVEL		70.333	70.331	70.329	70.312	70.29	70.281	70.247	70.072	70.069	70.189
CHAINAGE	0	4.75	5.2	5.65	9.8	15	16.467	19.8	29.8	30	41.167

LONGITUDINAL SECTION - SPORTS ACCESS 1

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



W.A.E.									
DESIGN LEVEL	72.669	72.618	72.486	72.421	72.418	72.018	71.773	71.023	70.954
EXISTING LEVEL	70.03	69.936	69.8	69.767	69.766	69.682	69.642	69.404	69.388
CHAINAGE	0	5.1	12.644	15	15.1	25.1	30	45	46.384

LONGITUDINAL SECTION - SPORTS ACCESS 2

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

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title:
ROAD LONGITUDINAL SECTIONS
SHEET 07

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	316	C

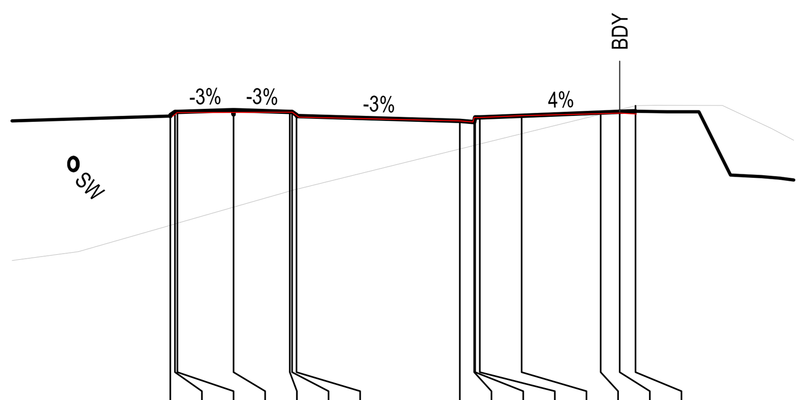
LEGEND

EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

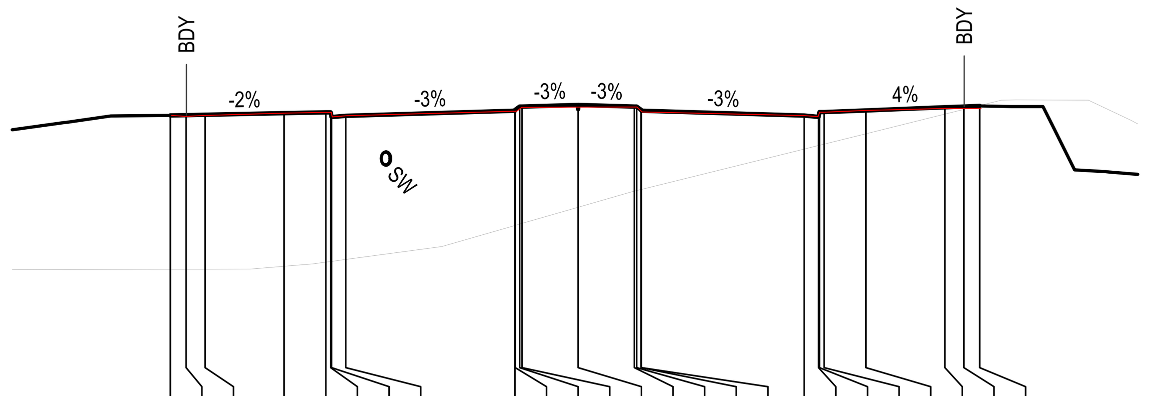
REGISTERED SURVEYOR ID: 8890
ORION GROUP



DATUM R.L. 67

W.A.E.	76.10		76.22	76.22		76.23	76.07	75.95	75.92	76.06	76.06	76.12	76.18	76.20	76.17
DESIGN LEVEL	76.11	76.24	76.24	76.293	76.24	76.24	76.14	75.955	75.915	76.065	76.065	76.118	76.218	76.242	76.262
EXISTING LEVEL	72.65	72.693	72.715	73.224	73.733	73.755	73.791	75.065	75.176	75.184	75.221	75.547	76.164	76.312	76.435
OFFSET	-2 1.93	-1.85	-1.775 1.78	0	1.775	1.85 1.85	1.99 2.06	7.15 7.13	7.6 7.56	7.63 7.59	7.78 7.76	9.1 9.11	11.6 11.63	12.2	12.7

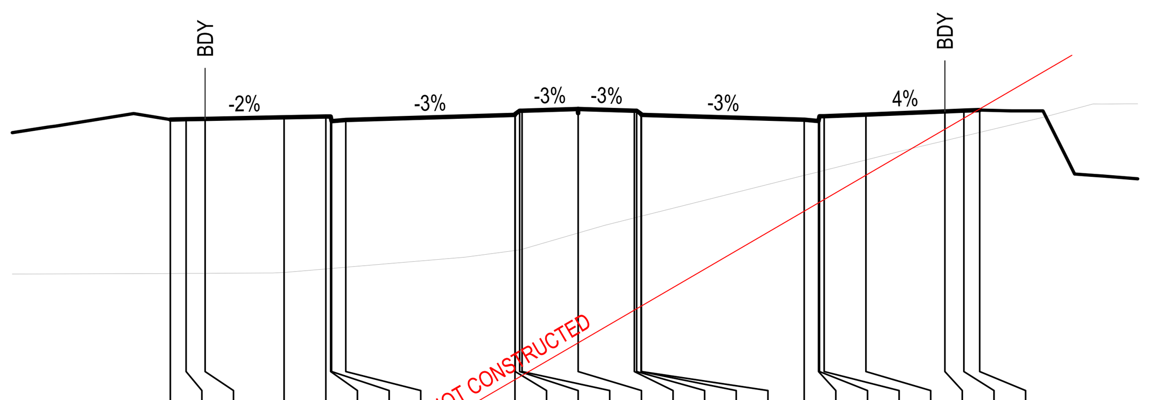
CH 495



DATUM R.L. 67

W.A.E.	75.96	75.94	75.97	76.04	76.06	76.06	75.92	75.95	76.10			76.22	76.23	76.23			76.08	75.96	75.93	76.06	76.07	76.13	76.19	76.18	76.18
DESIGN LEVEL	75.965	75.975	75.987	76.037	76.063	76.063	75.913	75.953	76.114	76.144	76.244	76.244	76.297	76.244	76.244	76.144	76.114	75.959	75.919	76.069	76.069	76.122	76.222	76.246	76.266
EXISTING LEVEL	71.109	71.109	71.11	71.201	71.332	71.352	71.356	71.417	72.491	72.493	72.534	72.555	73.066	73.574	73.592	73.627	73.629	74.904	75.015	75.023	75.06	75.387	76.006	76.154	76.278
OFFSET	-12.9	-12.4	-11.8 11.81	-9.3 9.32	-7.98 7.99	-7.83 7.81	-7.8 7.78	-7.35 7.32	-2 1.95	-1.99	-1.85	-1.775 1.79	0	1.775 1.85	1.85	1.99	2 2.02	7.15 7.15	7.6 7.58	7.63 7.64	7.78 7.77	9.1 9.16	11.6 11.64	12.2	12.7

CH 494.067

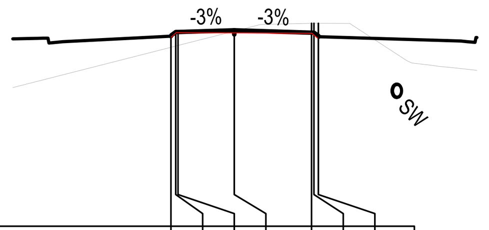


NOT CONSTRUCTED

DATUM R.L. 67

W.A.E.																									
DESIGN LEVEL	75.978	75.988	76	76.05	76.076	76.076	75.926	75.966	76.127	76.157	76.257	76.257	76.31	76.257	76.257	76.157	76.127	75.972	75.932	76.082	76.082	76.135	76.235	76.259	76.279
EXISTING LEVEL	71.106	71.108	71.11	71.137	71.249	71.262	71.265	71.302	71.834	71.835	71.854	71.872	72.387	72.865	72.884	72.919	72.921	74.211	74.324	74.331	74.369	74.699	75.31	75.453	75.572
OFFSET	-12.9	-12.4	-11.8	-9.3	-7.98	-7.83	-7.8	-7.35	-2	-1.99	-1.85	-1.775	0	1.775	1.85	1.99	2	7.15	7.6	7.63	7.78	9.1	11.6	12.2	12.7

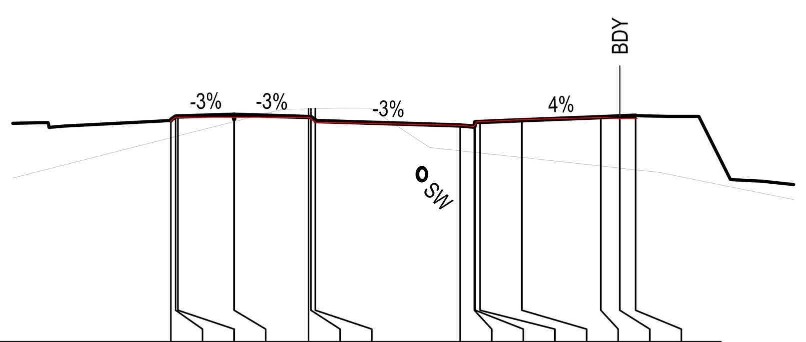
CH 490



DATUM R.L. 70

W.A.E.	75.97		76.11	76.10	76.09		75.94
DESIGN LEVEL	75.996	76.126	76.126	76.18	76.106	76.106	76.006
EXISTING LEVEL	75.644	75.682	75.701	76.152	76.401	76.401	76.401
OFFSET	-2 1.99	-1.85	-1.775 1.84	0	2.446 2.45	2.521	2.661 2.63

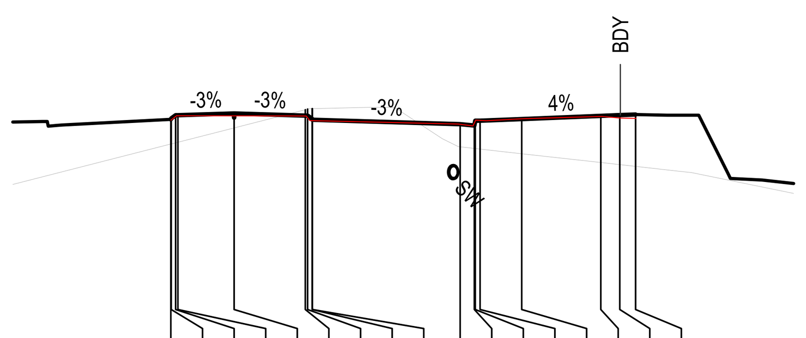
CH 510



DATUM R.L. 69

W.A.E.	75.97		76.11	76.11	76.11		75.95	75.85	75.82	75.97	75.97	76.03	76.10	76.06	76.07
DESIGN LEVEL	76.004	76.134	76.134	76.188	76.117	76.117	76.017	75.85	75.81	75.96	75.96	76.013	76.113	76.137	76.157
EXISTING LEVEL	75.46	75.499	75.518	75.97	76.376	76.378	76.381	75.047	74.998	74.995	74.978	74.835	74.564	74.499	74.445
OFFSET	-2 2.01	-1.85	-1.775 1.86	0	2.356 2.38	2.431	2.571 2.58	7.15 7.16	7.6 7.58	7.63 7.69	7.78 7.77	9.101 9.15	11.601 11.70	12.201	12.701

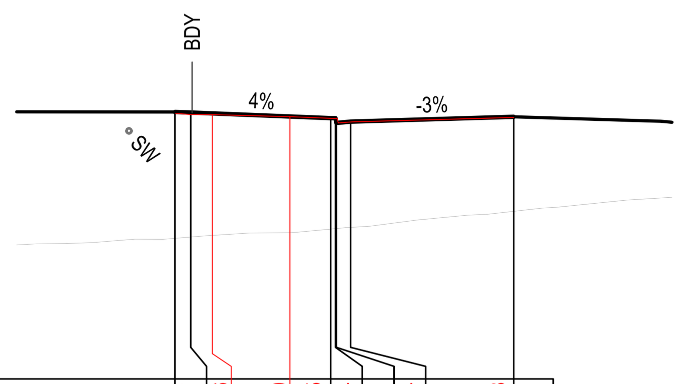
CH 509.214



DATUM R.L. 69

W.A.E.	76.13			76.13	76.12	76.12			75.97	75.86	75.81	75.98	75.97	76.03	76.11	76.06	76.04
DESIGN LEVEL	76.014	76.044	76.144	76.144	76.197	76.13	76.13	76.03	76	75.86	75.82	75.97	75.97	76.022	76.122	76.146	76.166
EXISTING LEVEL	75.232	75.235	75.271	75.29	75.744	76.319	76.338	76.35	76.35	75.143	75.093	75.089	75.073	74.926	74.648	74.582	74.526
OFFSET	-2 1.82	-1.99	-1.85	-1.775 1.82	0	2.252 2.28	2.327	2.467	2.477 2.39	7.15 7.09	7.6 7.56	7.63 7.64	7.78 7.98	9.1 9.16	11.6 11.63	12.2	12.7

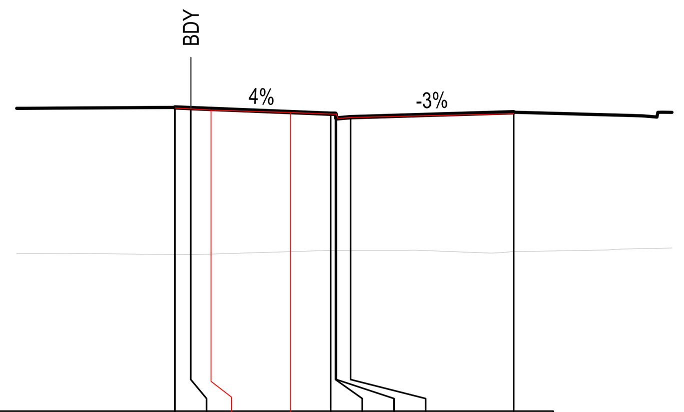
CH 508.233



DATUM R.L. 67

W.A.E.	75.41	75.37	75.36	75.30	75.25	75.24	75.11	75.14	75.28
DESIGN LEVEL	75.452	75.432			75.255	75.255	75.105	75.145	75.3
EXISTING LEVEL	71.45	71.491			71.744	71.758	71.761	71.799	72.306
OFFSET	-10.7	-10.2	9.52	7.07	-5.78 5.73	-5.63 5.57	-5.6 5.54	-5.15 5.11	0

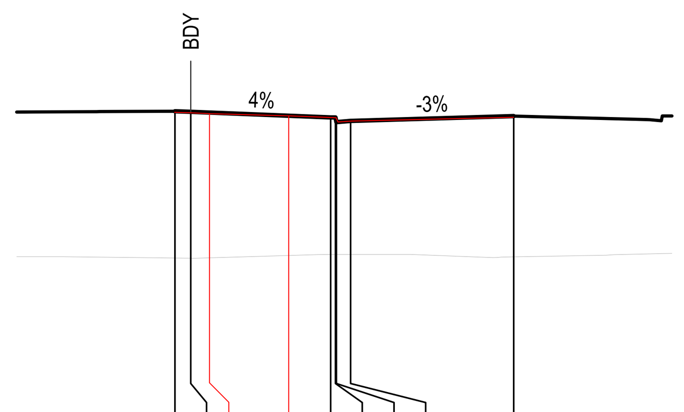
CH 585



DATUM R.L. 66

W.A.E.	75.58	75.56	75.52	75.45	75.40	75.39	75.26	75.29	75.41
DESIGN LEVEL	75.602	75.582			75.405	75.405	75.255	75.295	75.45
EXISTING LEVEL	70.955	70.952			71.084	71.084	71.084	71.084	71.042
OFFSET	-10.7	-10.2	9.56	7.06	-5.78 5.72	-5.63 5.60	-5.6 5.55	-5.15 5.12	0

CH 570



DATUM R.L. 66

W.A.E.	75.57	75.56	75.53	75.46	75.41	75.40	75.27	75.30	75.42
DESIGN LEVEL	75.61	75.59			75.413	75.413	75.263	75.303	75.457
EXISTING LEVEL	70.968	70.962			71.08	71.08	71.08	71.08	71.006
OFFSET	-10.7	-10.2	9.61	7.11	-5.78 5.74	-5.63 5.61	-5.6 5.55	-5.15 5.10	0

CH 569.234

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

CHARLES MCINTOSH PARKWAY

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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:
591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title:
ROAD CROSS SECTIONS SHEET 01

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	350	B

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

25/02/2025

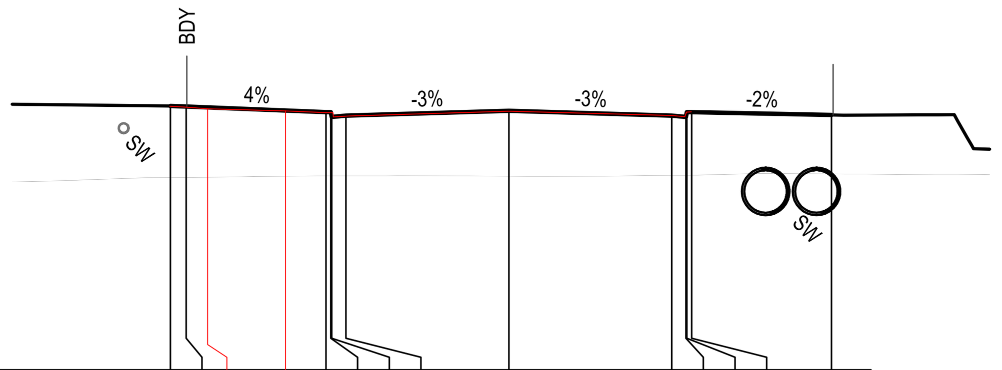
SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

LEGEND

EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

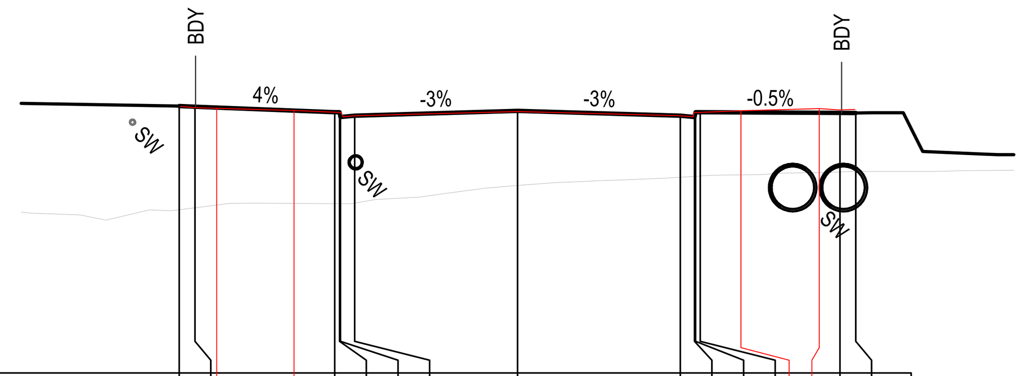
WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



DATUM R.L. 67

OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-10.7	75.34	75.354	73.087
-10.2	75.31	75.334	73.092
9.53	75.26		
7.06	75.20		
-5.78 5.74	75.14	75.157	73.138
-5.63 5.56	75.14	75.157	73.138
-5.6 5.55	75.00	75.007	73.138
-5.15 5.08	75.04	75.047	73.139
0	75.19	75.202	73.13
5.15 5.15	75.05	75.047	73.161
5.6 5.57	75.02	75.007	73.162
5.63 5.61	75.16	75.157	73.162
5.78 5.77	75.17	75.157	73.162
10.2		75.069	73.201

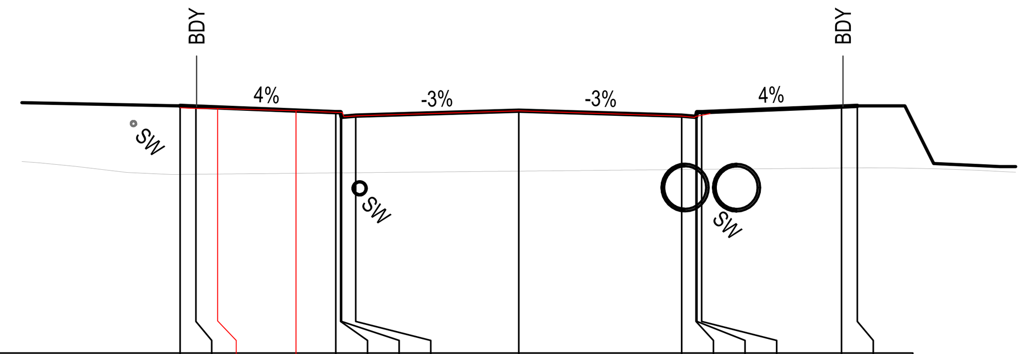
CH 600



DATUM R.L. 67

OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-10.7	75.43	75.437	72.158
-10.2	75.39	75.417	72.221
9.51	75.36		
7.07	75.30		
-5.78 5.72	75.24	75.24	72.351
-5.63 5.58	75.24	75.24	72.351
-5.6 5.52	75.10	75.09	72.351
-5.15 5.11	75.13	75.13	72.369
0	75.27	75.285	72.926
5.15 5.11	75.13	75.13	73.184
5.6 5.55	75.10	75.09	73.212
5.63 5.58	75.24	75.24	73.215
5.78 5.73	75.24	75.24	73.225
7.07	75.29		
9.54	75.36		
10.2	75.31	75.22	73.352
10.7	75.33	75.217	73.371

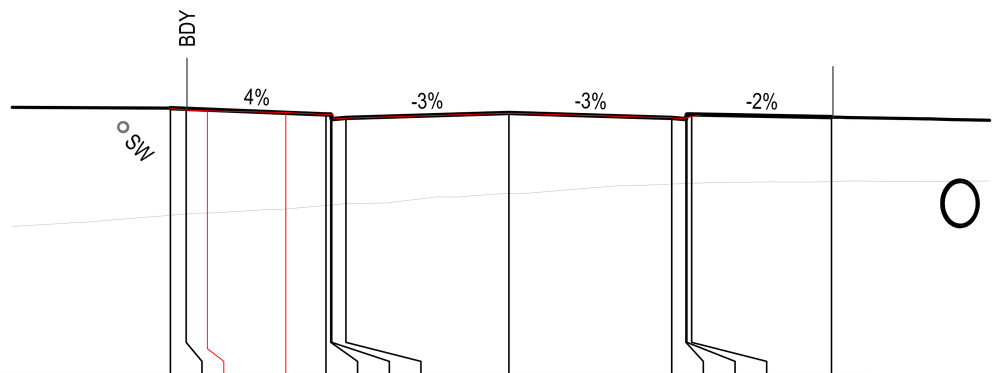
CH 621.5



DATUM R.L. 68

OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-10.7	75.77	75.822	73.653
-10.2	75.74	75.802	73.658
9.52	75.74		
7.04	75.67		
-5.78 5.70	75.61	75.625	73.702
-5.63 5.58	75.62	75.625	73.703
-5.6 5.52	75.48	75.475	73.703
-5.15 5.08	75.51	75.515	73.708
0	75.67	75.67	73.758
5.15 5.14	75.50	75.515	73.808
5.6 5.56	75.46	75.475	73.812
5.63 5.59	75.49	75.625	73.813
5.78 6.05	75.58	75.625	73.814
10.2		75.802	73.857
10.7		75.822	73.861

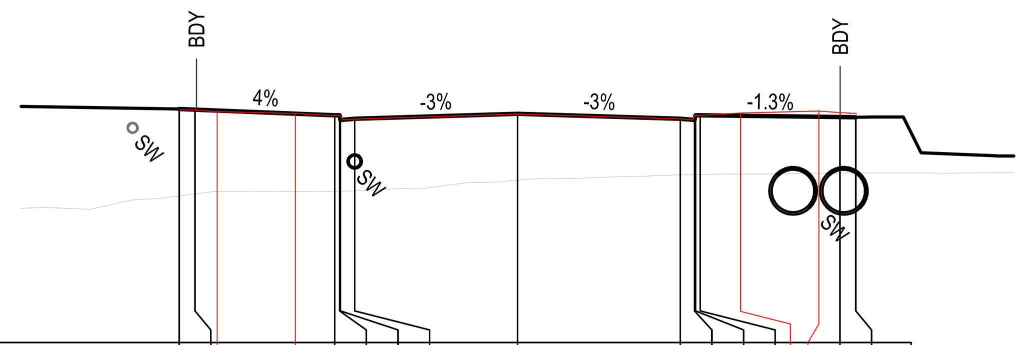
CH 660



DATUM R.L. 67

OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-10.7	75.40	75.403	72.018
-10.2	75.34	75.383	72.059
9.53	75.32		
7.05	75.26		
-5.78 5.73	75.20	75.206	72.328
-5.63 5.55	75.19	75.206	72.342
-5.6 5.54	75.06	75.056	72.344
-5.15 5.08	75.09	75.096	72.385
0	75.24	75.251	72.706
5.15 5.11	75.10	75.096	73.004
5.6 5.54	75.07	75.056	73.024
5.63 5.60	75.10	75.206	73.026
5.78 6.04	75.18	75.206	73.03
10.2		75.118	73.082

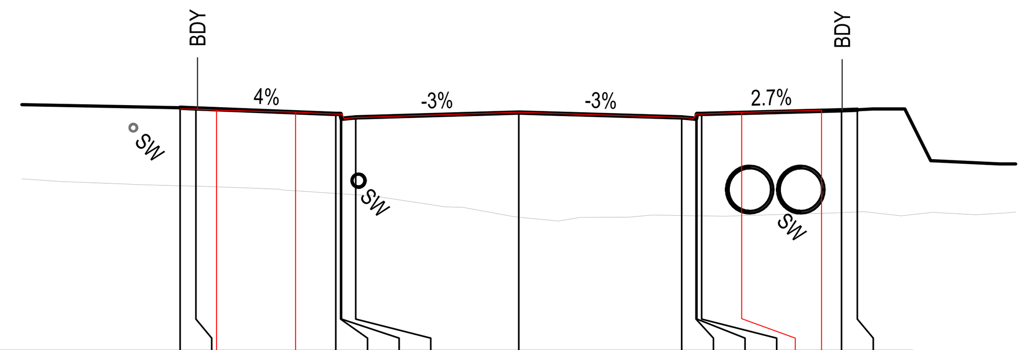
CH 590.297



DATUM R.L. 68

OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-10.7	75.36	75.384	72.637
-10.2	75.35	75.364	72.699
9.50	75.30		
7.03	75.25		
-5.78 5.72	75.18	75.187	72.78
-5.63 5.61	75.18	75.187	72.784
-5.6 5.52	75.04	75.037	72.784
-5.15 5.09	75.07	75.077	72.795
0	75.23	75.232	73.131
5.15 5.13	75.08	75.077	73.304
5.6 5.54	75.04	75.037	73.311
5.63 5.59	75.18	75.187	73.311
5.78 5.73	75.18	75.187	73.313
7.06	75.26		
9.53	75.32		
10.2	75.27	75.128	73.359
10.7	75.25	75.122	73.359

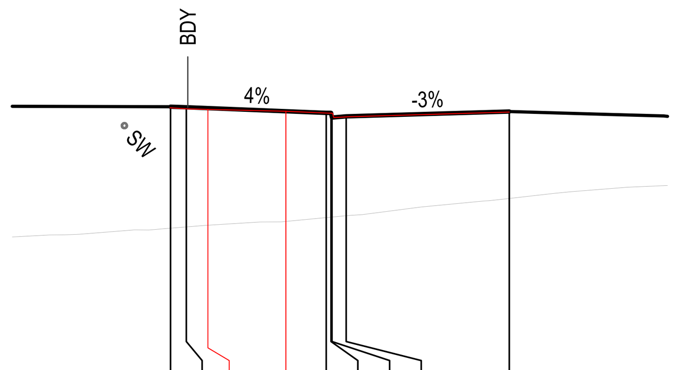
CH 615



DATUM R.L. 68

OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-10.7	75.63	75.672	73.208
-10.2	75.63	75.652	73.194
9.55	75.60		
7.05	75.53		
-5.78 5.75	75.47	75.475	72.967
-5.63 5.58	75.47	75.475	72.957
-5.6 5.52	75.33	75.325	72.955
-5.15 5.12	75.36	75.365	72.925
0	75.53	75.52	72.219
5.15 5.12	75.37	75.365	72.269
5.6 5.53	75.34	75.325	72.262
5.63 5.60	75.47	75.475	72.261
5.78 5.73	75.47	75.475	72.258
7.05	75.53		
10.2 9.57	75.59	75.593	72.359
10.7		75.606	72.382

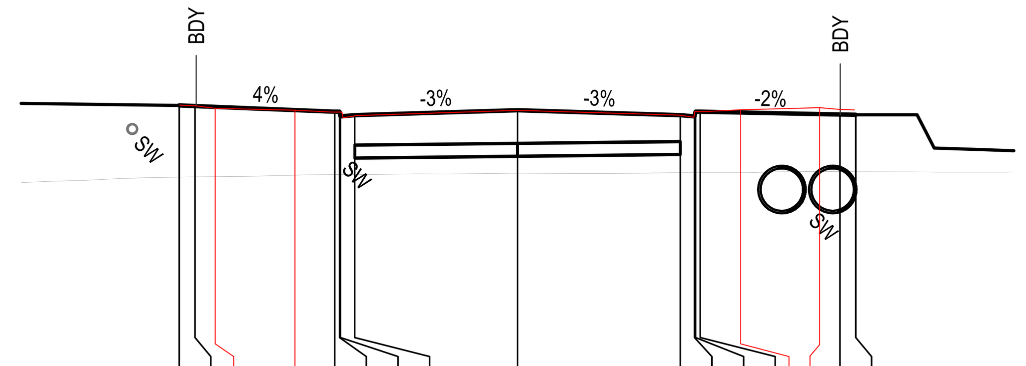
CH 645



DATUM R.L. 67

OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-10.7	75.40	75.437	71.59
-10.2	75.37	75.417	71.631
9.52	75.35		
7.06	75.29		
-5.78 5.72	75.23	75.24	71.925
-5.63 5.58	75.23	75.24	71.939
-5.6 5.55	75.09	75.09	71.941
-5.15 5.06	75.12	75.13	71.983
0	75.27	75.285	72.531

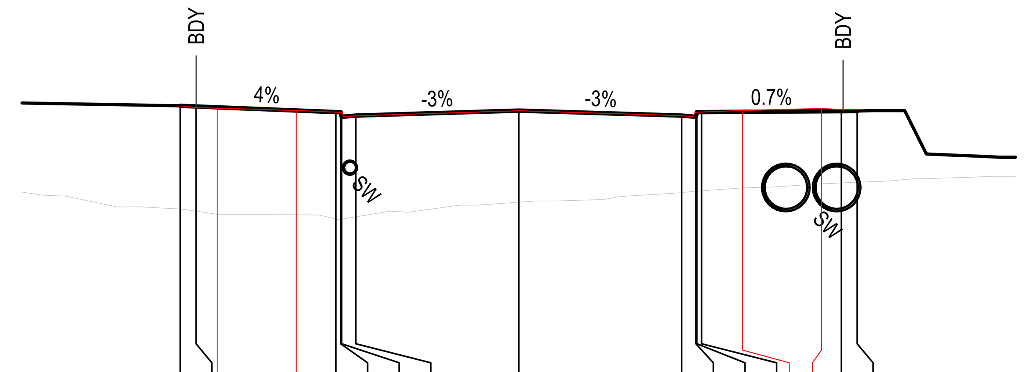
CH 586.5



DATUM R.L. 67

OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-10.7	75.36	75.349	73.082
-10.2	75.34	75.329	73.088
9.56	75.26		
7.04	75.20		
-5.78 5.88	75.14	75.153	73.163
-5.63 5.55	75.14	75.153	73.164
-5.6 5.52	74.96	75.003	73.164
-5.15 5.09	75.03	75.043	73.164
0	75.19	75.197	73.183
5.15 5.14	75.04	75.043	73.221
5.6 5.58	74.97	75.003	73.222
5.63 5.61	75.15	75.153	73.222
5.78 5.95	75.16	75.153	73.222
7.06	75.21		
9.55	75.28		
10.2	75.22	75.064	73.256
10.7	75.20	75.054	73.252

CH 604.001



DATUM R.L. 67

OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-10.7	75.52	75.522	72.261
-10.2	75.47	75.502	72.194
9.53	75.45		
7.03	75.38		
-5.78 5.73	75.32	75.325	71.949
-5.63 5.58	75.32	75.325	71.935
-5.6 5.54	75.18	75.175	71.94
-5.15 5.13	75.21	75.215	72.014
0	75.37	75.37	72.477
5.15 5.07	75.21	75.215	72.783
5.6 5.50	75.18	75.175	72.822
5.63 5.59	75.32	75.325	72.824
5.78 5.73	75.32	75.325	72.835
7.07	75.38		
9.57	75.44		
10.2	75.41	75.355	73.087
10.7	75.40	75.358	73.107

CH 630

CHARLES MCINTOSH PARKWAY

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

SUSTAINABLE CERTIFICATION ISO 9001 ISO 45001 ISO 14001
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:
591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title:
ROAD CROSS SECTIONS
SHEET 02

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	351	B

LEGEND	
EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

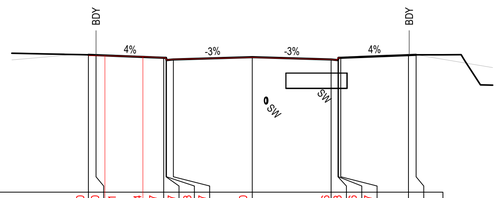
REGISTERED SURVEYOR ID: 8890
ORION GROUP

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



DATUM R.L. 67

W.A.E.		75.90	75.90	75.91		75.84	75.77	75.77	75.63	75.67		75.80			75.66	75.63	75.76	75.77						
DESIGN LEVEL	75.964	75.944					75.768	75.768	75.618	75.658		75.812			75.658	75.618	75.768	75.768		75.944	75.964			
EXISTING LEVEL	75.964	75.944					75.768	75.768	75.618	75.658		75.812			75.658	75.618	75.768	75.768		75.944	75.964			
OFFSET	-10.7	-10.2		9.62		7.14	5.80	5.66	5.59	5.15	5.15		0		5.15	5.14	5.51	5.61	5.74	5.78		10.2	10.7	

CH 674.252

CHARLES MCINTOSH PARKWAY

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ROAD CROSS SECTIONS SHEET 03

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	352	B

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

25/02/2025

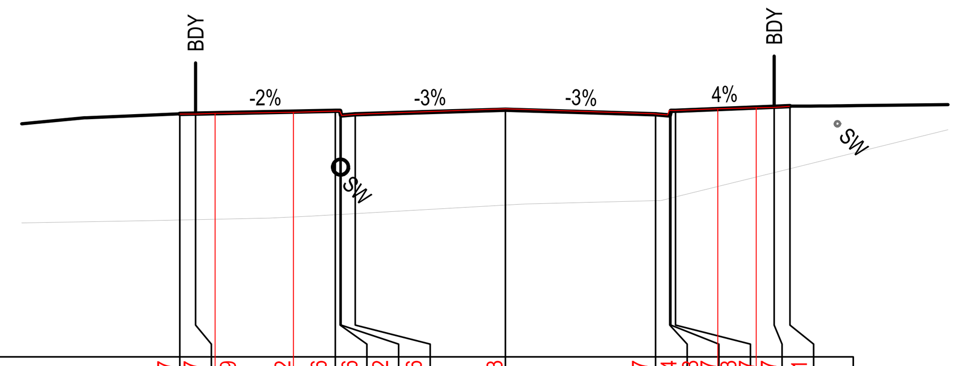
SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

LEGEND

EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

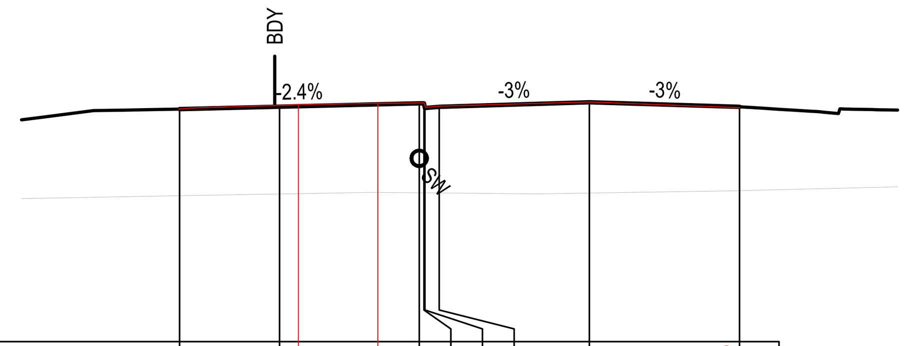
WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



DATUM R.L. 67

W.A.E.	74.67	74.67	74.69	74.72	74.76	74.76	74.62	74.66	74.83	74.67	74.64 74.78	74.77	74.83 74.87	74.87	74.91
DESIGN LEVEL	74.67	74.68			74.768	74.768	74.618	74.658	74.801	74.658	74.618	74.768	74.768	74.893	74.913
EXISTING LEVEL	71.319	71.33			71.484	71.493	71.495	71.52	71.79	71.931	72.003	72.01	72.047	72.815	72.938
OFFSET	-10.3	-9.8	9.18	6.71	-5.38 5.39	-5.23 5.24	-5.2 5.18	-4.75 4.72	0	4.75 4.68	5.2 5.13 5.18	5.23 5.34	5.38 6.72 7.93	8.5	9

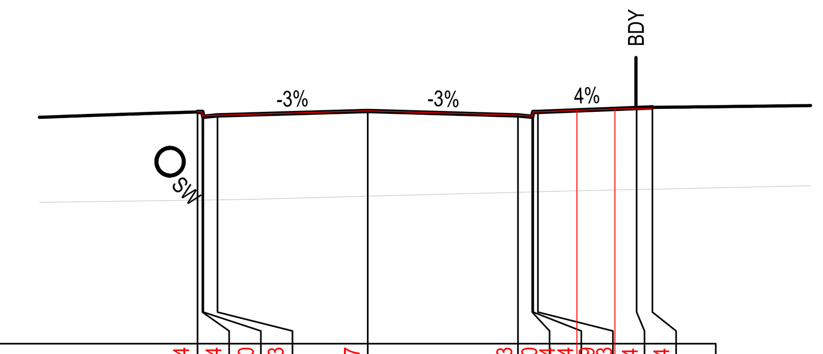
CH 48.392



DATUM R.L. 67

W.A.E.	74.34	74.46	74.48	74.52	74.53	74.53	74.39	74.43	74.57	74.38
DESIGN LEVEL	74.342	74.418			74.524	74.524	74.374	74.414	74.557	74.414
EXISTING LEVEL	71.605	71.662			71.699	71.697	71.697	71.693	71.691	71.765
OFFSET	-12.961	-9.8	9.20	6.69	-5.38 5.41	-5.23 5.23	-5.2 5.18	-4.75 4.75	0	4.75

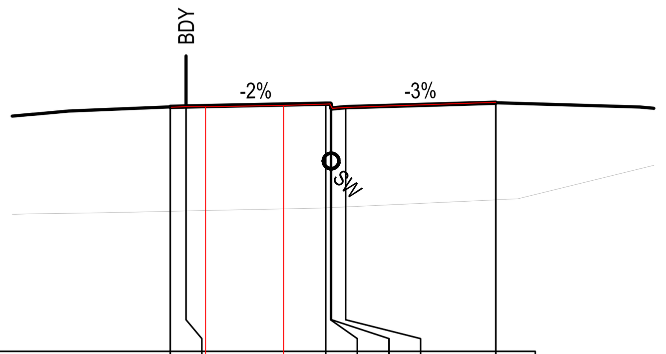
CH 64.308



DATUM R.L. 67

W.A.E.	74.34	74.34	74.20	74.23	74.37	74.23	74.20 74.34	74.34	74.39 74.43	74.44	74.44
DESIGN LEVEL	74.334	74.334	74.184	74.224	74.366	74.224	74.184	74.334	74.334	74.458	74.478
EXISTING LEVEL	71.544	71.546	71.546	71.552	71.667	71.793	71.805	71.806	71.81	71.879	71.89
OFFSET	-5.38 5.39	-5.23 5.24	-5.2 5.22	-4.75 4.76	0	4.75 4.74	5.2 5.20 5.24	5.23 5.37	5.38 6.61 7.81	8.5	9

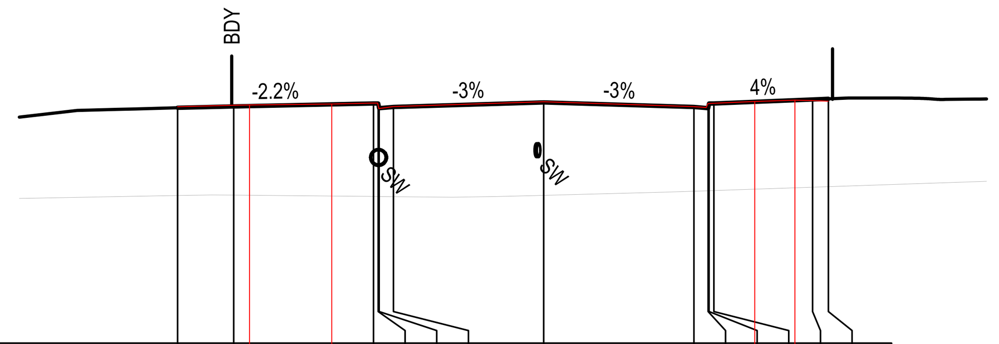
CH 81.652



DATUM R.L. 67

W.A.E.	74.73	74.75	74.74	74.79	74.83	74.83	74.69	74.72	74.88
DESIGN LEVEL	74.74	74.75			74.838	74.838	74.688	74.728	74.87
EXISTING LEVEL	71.433	71.444			71.544	71.551	71.552	71.573	71.797
OFFSET	-10.3	-9.8	9.18	6.71	-5.38 5.36	-5.23 5.24	-5.2 5.17	-4.75 4.74	0

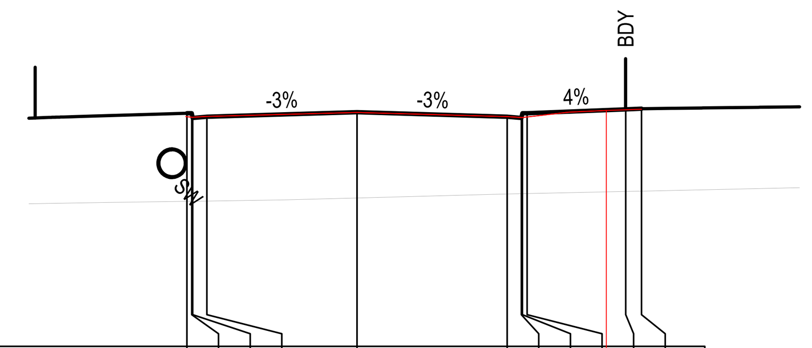
CH 45



DATUM R.L. 67

W.A.E.	74.49	74.53	74.54	74.57	74.60	74.60	74.43	74.49	74.64	74.49	74.46	74.59 74.59	74.65 74.70	74.68	74.66
DESIGN LEVEL	74.454	74.493			74.59	74.59	74.44	74.48	74.623	74.48	74.44	74.59	74.59	74.715	74.735
EXISTING LEVEL	71.674	71.687			71.644	71.643	71.642	71.638	71.68	71.81	71.825	71.826	71.831	71.938	71.955
OFFSET	-11.574	-9.8	9.30	6.70	-5.38 5.43	-5.23 5.25	-5.2 5.21	-4.75 4.75	0	4.75 4.70	5.2 5.14	5.23 5.19 5.31	5.38 6.67 7.94	8.5	9

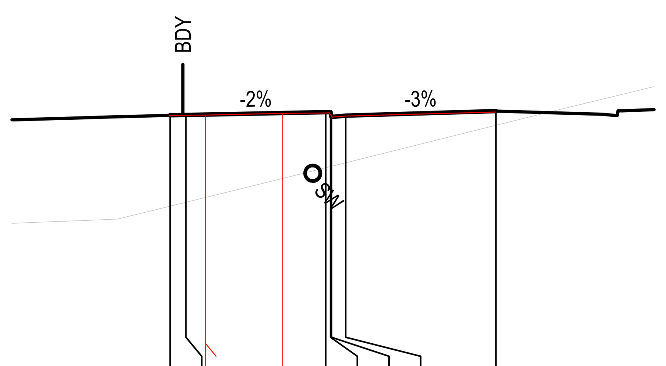
CH 59.017



DATUM R.L. 67

W.A.E.	74.25		74.23	74.26	74.38	74.25	74.22	74.24	74.44	74.48	74.48
DESIGN LEVEL	74.358	74.358	74.208	74.248	74.39	74.248	74.208	74.358	74.358	74.483	74.503
EXISTING LEVEL	71.578	71.58	71.581	71.587	71.683	71.808	71.818	71.819	71.822	71.89	71.9
OFFSET	-5.38 5.41	-5.23	-5.2 5.20	-4.75 4.78	0	4.75 4.75	5.2 5.22	5.23 5.41	5.38 7.89	8.5	9

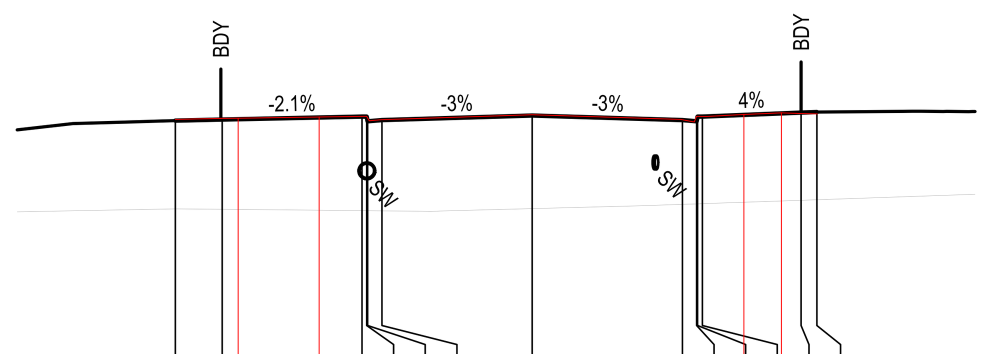
CH 79.436



DATUM R.L. 67

W.A.E.	75.01	75.02	75.03	75.08	75.09	75.09	74.96	75.00	75.12
DESIGN LEVEL	75.019	75.029			75.117	75.117	74.967	75.007	75.15
EXISTING LEVEL	72.146	72.269			73.362	73.4	73.407	73.519	74.702
OFFSET	-10.3	-9.8	9.18	6.74	-5.38 5.38	-5.23 5.27	-5.2 5.18	-4.75 4.76	0

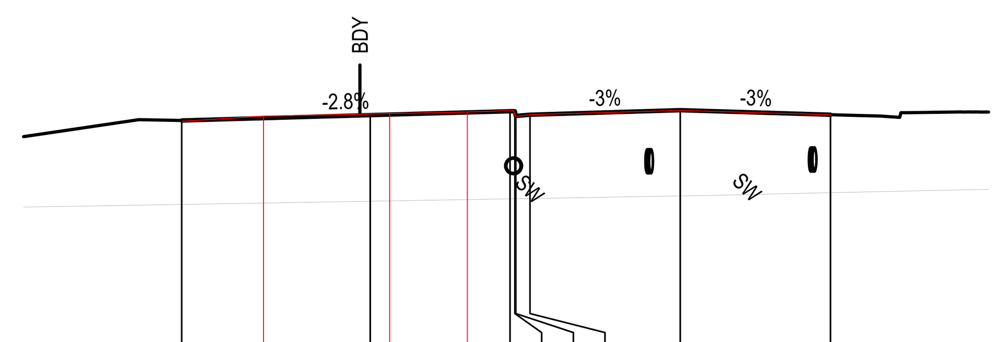
CH 33.632



DATUM R.L. 67

W.A.E.	74.51	74.55	74.56	74.59	74.61	74.61	74.47	74.51	74.66	74.51	74.44 74.61	74.61	74.67 74.72	74.70	74.69
DESIGN LEVEL	74.479	74.511			74.606	74.606	74.456	74.496	74.639	74.496	74.456	74.606	74.606	74.731	74.751
EXISTING LEVEL	71.689	71.676			71.633	71.631	71.631	71.627	71.697	71.831	71.846	71.847	71.852	71.96	71.977
OFFSET	-11.281	-9.8	9.29	6.73	-5.38 5.36	-5.23 5.23	-5.2 5.15	-4.75 4.76	0	4.75 4.70	5.2 5.12 5.20	5.23 5.51	5.38 6.70 7.88	8.5	9

CH 57.897



DATUM R.L. 67

W.A.E.	74.09	74.25	74.32	74.33	74.38	74.42	74.42	74.24	74.30	74.43	74.30
DESIGN LEVEL	74.113		74.282			74.407	74.407	74.257	74.297	74.439	74.297
EXISTING LEVEL	71.457		71.558			71.633	71.636	71.636	71.644	71.725	71.826
OFFSET	-15.762	13.18	-9.8 9.81	9.19	6.73	-5.38 5.58	-5.23 5.27	-5.2 5.21	-4.75 4.72	0	4.75 4.75

CH 75

C — *ROAD 20 KG AMENDED

ROAD 20

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ROAD CROSS SECTIONS SHEET 04

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	353	C

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

25/02/2025

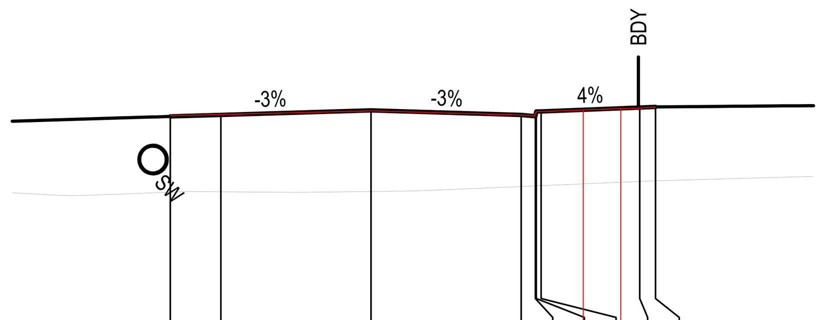
SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

LEGEND

EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

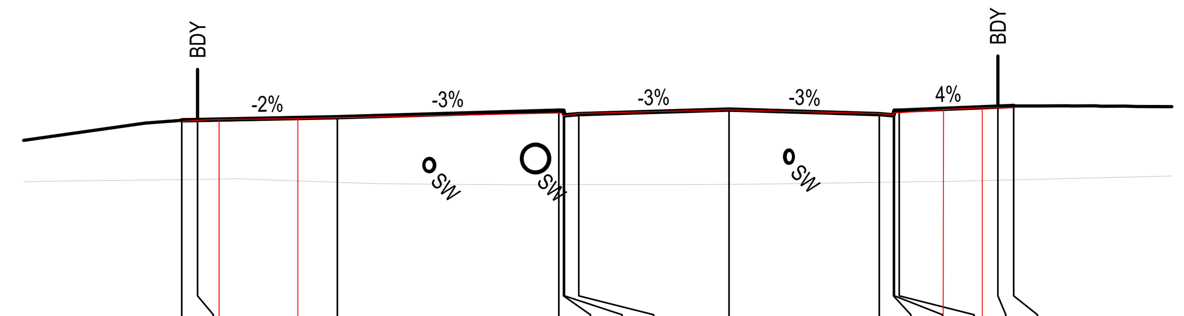
WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



DATUM R.L. 67

W.A.E.	73.78	73.82	73.93	73.80	73.77 73.91	73.91 73.97	74.00	74.02	74.05
DESIGN LEVEL	73.754	73.802	73.944	73.802	73.762	73.912	73.912	74.037	74.057
EXISTING LEVEL	71.36	71.371	71.382	71.539	71.558	71.56	71.566	71.699	71.719
OFFSET	-6.35	-4.75	0	4.75 4.78	5.2 5.17	5.23 5.22 5.40	5.38 6.71 7.90	8.5	9

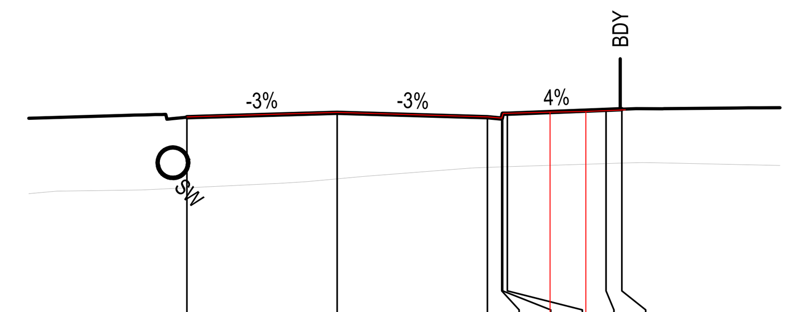
CH 120



DATUM R.L. 67

W.A.E.	73.51	73.55	73.57	73.61		73.78	73.78	73.69	73.76	73.88	73.76	73.72 73.79	73.78	73.89 73.94	73.94	73.94
DESIGN LEVEL	73.547	73.557			73.645	73.855	73.855	73.705	73.745	73.888	73.745	73.705	73.855	73.855	73.98	74
EXISTING LEVEL	71.674	71.681			71.589	71.514	71.514	71.514	71.515	71.526	71.587	71.594	71.594	71.597	71.654	71.666
OFFSET	-17.3	-16.8	16.12	13.63	-12.38	-5.38 5.41	-5.23 5.29	-5.2 5.25	-4.75 4.73	0 0.00	4.75 4.76	5.2 5.19 5.20	5.23 5.40	5.38 6.78 8.01	8.5	9

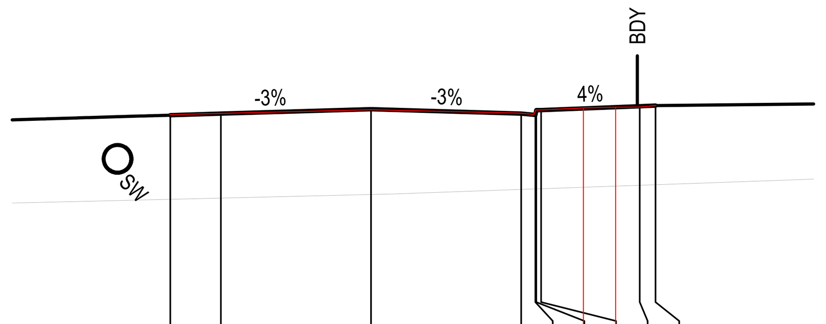
CH 125.129



DATUM R.L. 67

W.A.E.	73.51	73.65	73.51	73.47 73.62	73.62 73.66	73.68	73.69	73.73
DESIGN LEVEL	73.497	73.639	73.497	73.457	73.607	73.607	73.732	73.752
EXISTING LEVEL	71.263	71.546	71.91	71.926	71.927	71.931	72.029	72.045
OFFSET	-4.75	0	4.75 4.77	5.2 5.20	5.23 5.25 5.36	5.38 6.73 7.86	8.5	9

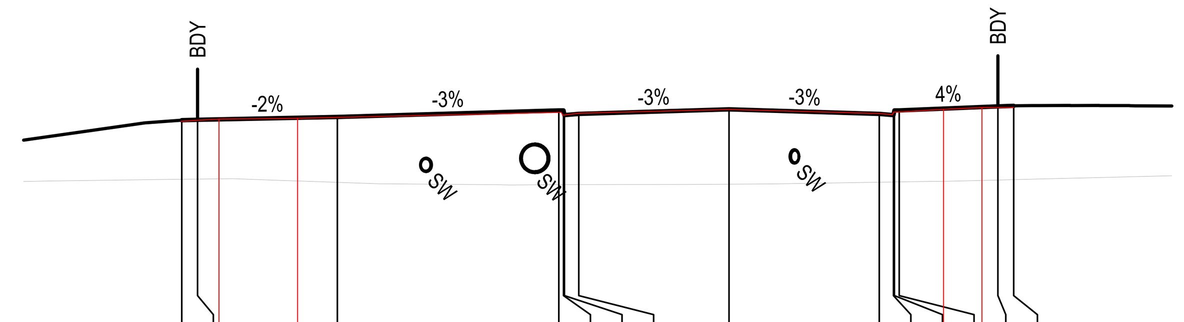
CH 147.717



DATUM R.L. 67

W.A.E.	73.93	73.97	74.09	73.98	73.94 74.08	74.08 74.14	74.17	74.18	74.22
DESIGN LEVEL	73.919	73.967	74.109	73.967	73.927	74.077	74.077	74.202	74.222
EXISTING LEVEL	71.256	71.294	71.407	71.567	71.583	71.584	71.589	71.7	71.717
OFFSET	-6.35	-4.75	0	4.75 4.74	5.2 5.15	5.23 5.22 5.37	5.38 6.72 7.74	8.5	9

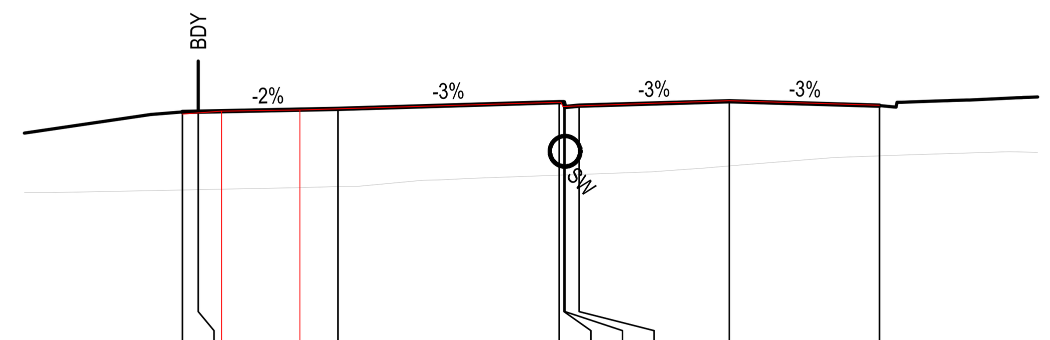
CH 105



DATUM R.L. 67

W.A.E.	73.52	73.54	73.58	73.61		73.79	73.80	73.70	73.77	73.88	73.76	73.72 73.81	73.81	73.89 73.95	73.95	73.95
DESIGN LEVEL	73.549	73.559			73.647	73.857	73.857	73.707	73.747	73.889	73.747	73.707	73.857	73.857	73.982	74.002
EXISTING LEVEL	71.679	71.685			71.581	71.511	71.511	71.511	71.511	71.523	71.586	71.593	71.593	71.596	71.656	71.668
OFFSET	-17.3	-16.8	16.13	13.64	-12.38	-5.38 5.41	-5.23 5.30	-5.2 5.25	-4.75 4.73	0	4.75 4.75	5.2 5.17 5.21	5.23 5.37	5.38 6.78 8.00	8.5	9

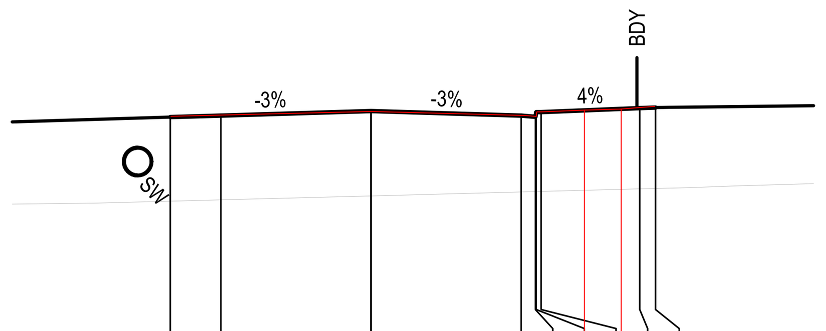
CH 124.985



DATUM R.L. 66

W.A.E.	73.25	73.28	73.34	73.38		73.62	73.61	73.48	73.50	73.67	73.52
DESIGN LEVEL	73.31	73.32			73.408	73.618	73.618	73.468	73.508	73.651	73.508
EXISTING LEVEL	70.844	70.854			70.952	71.312	71.318	71.319	71.335	71.604	71.924
OFFSET	-17.3	-16.8	16.06	13.58	-12.38	-5.38 5.45	-5.23 5.33	-5.2 5.26	-4.75 4.84	0	4.75 4.74

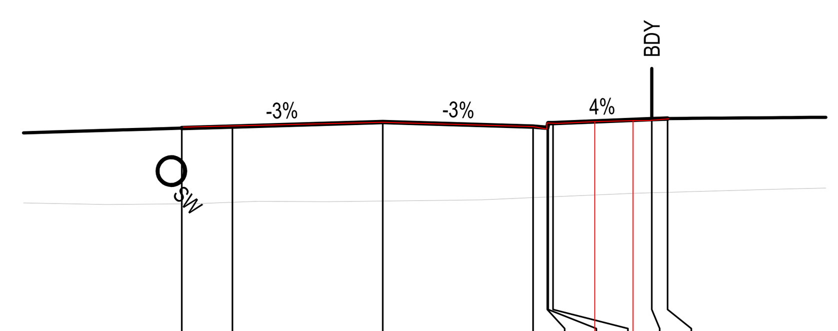
CH 146.679



DATUM R.L. 67

W.A.E.	74.11	74.15		74.14	74.11 74.25	74.25 74.31	74.34	74.39	74.42
DESIGN LEVEL	74.084	74.132	74.274	74.132	74.092	74.242	74.242	74.367	74.387
EXISTING LEVEL	71.427	71.469	71.593	71.717	71.729	71.729	71.733	71.815	71.827
OFFSET	-6.35	-4.75	0	4.75 4.87	5.2 5.22	5.23 5.25 5.40	5.38 6.75 7.91	8.5	9

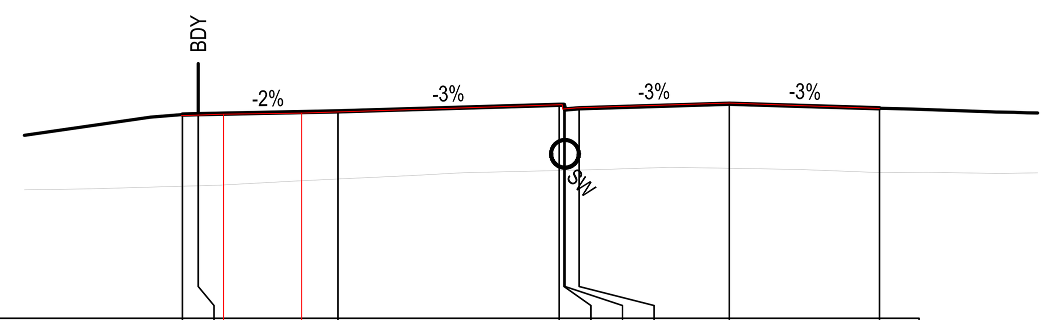
CH 90



DATUM R.L. 67

W.A.E.	73.77	73.80	73.92	73.78	73.70 73.90	73.89 73.94	73.97	73.97	74.03
DESIGN LEVEL	73.737	73.785	73.927	73.785	73.745	73.895	73.895	74.02	74.04
EXISTING LEVEL	71.341	71.39	71.43	71.538	71.558	71.559	71.565	71.692	71.706
OFFSET	-6.35	-4.75	0	4.75 4.75	5.2 5.18	5.23 5.19 5.52	5.38 6.70 7.91	8.5	9

CH 121.535



DATUM R.L. 67

W.A.E.	73.40	73.42	73.45	73.48		73.75	73.75	73.61	73.65	73.80	73.63
DESIGN LEVEL	73.438	73.448			73.537	73.747	73.747	73.597	73.637	73.779	73.637
EXISTING LEVEL	71.172	71.186			71.4	71.668	71.672	71.672	71.683	71.739	71.604
OFFSET	-17.3	-16.8	16.00	13.52	-12.38	-5.38 5.43	-5.23 5.29	-5.2 5.27	-4.75 4.81	0	4.75

CH 135

ROAD 20

C *ROAD 20 KG AMENDED

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

JAS-ANZ WWW.JAS-ANZ.ORG/REGISTER

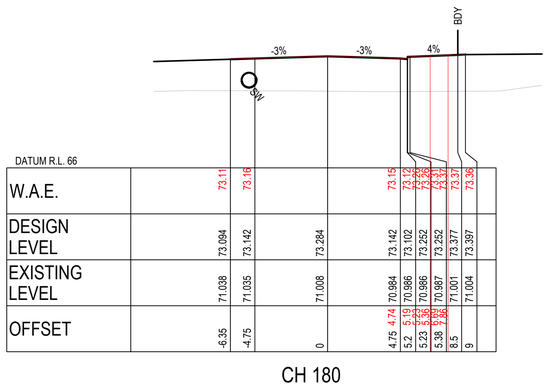
Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ROAD CROSS SECTIONS SHEET 05

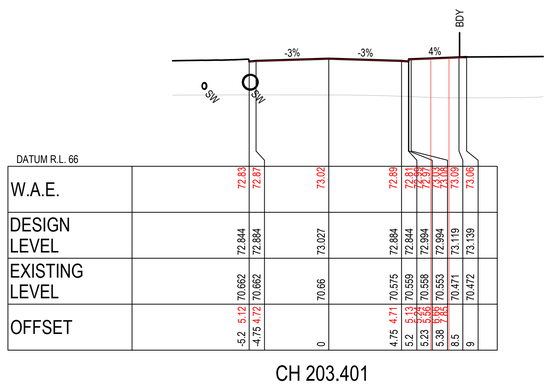
Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	354	C

LEGEND	
EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

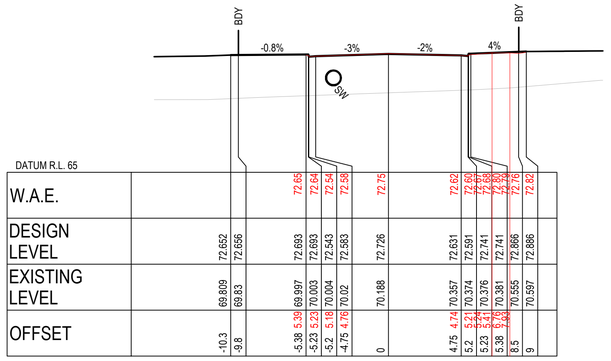
WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



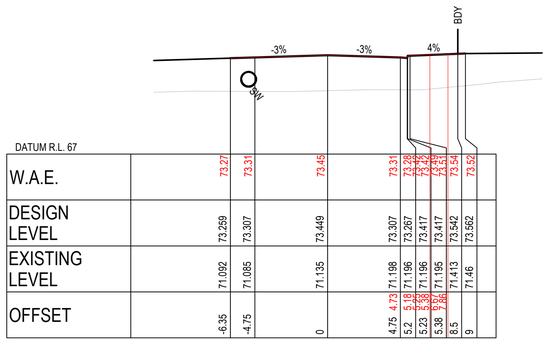
CH 180



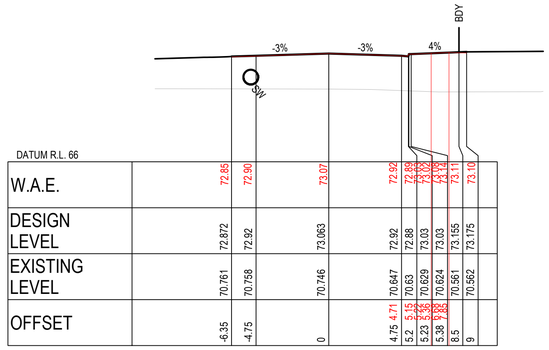
CH 203.401



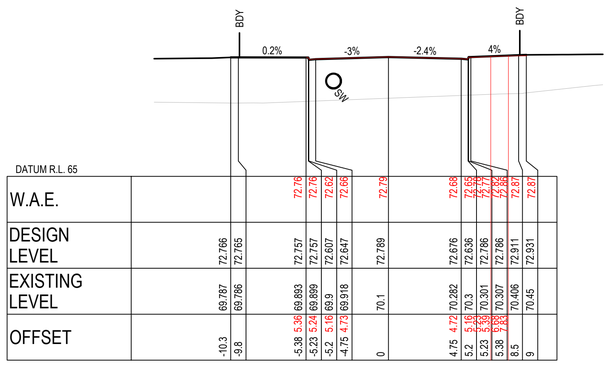
CH 230.76



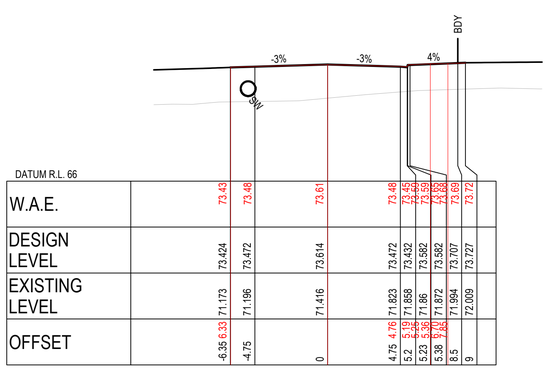
CH 165



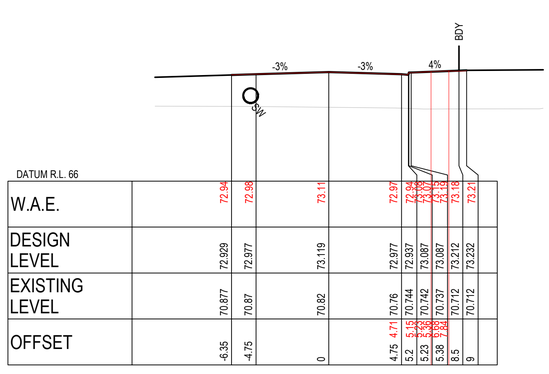
CH 200.129



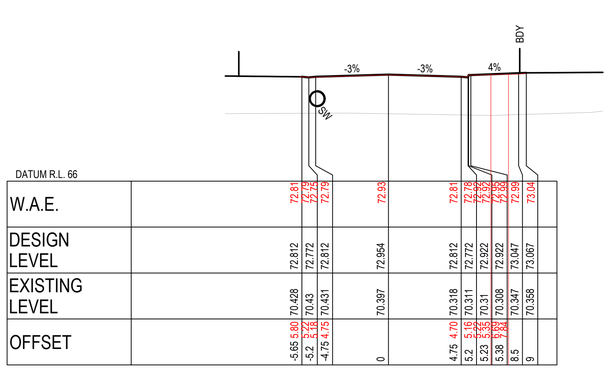
CH 225



CH 150



CH 195



CH 210

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

C *ROAD 20 KG AMENDED

ROAD 20

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ROAD CROSS SECTIONS SHEET 06

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	355	C

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

25/02/2025

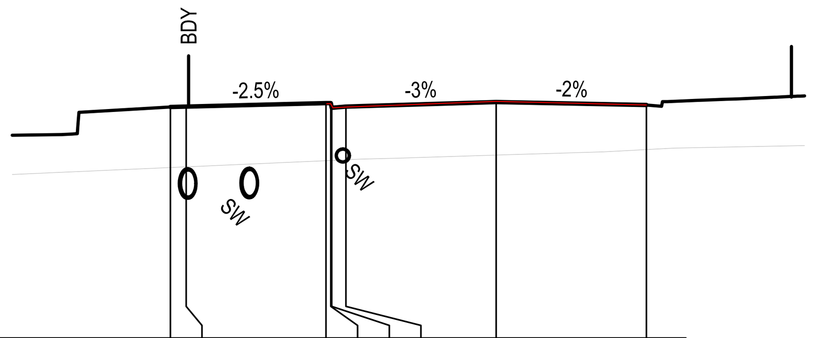
SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

LEGEND

EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

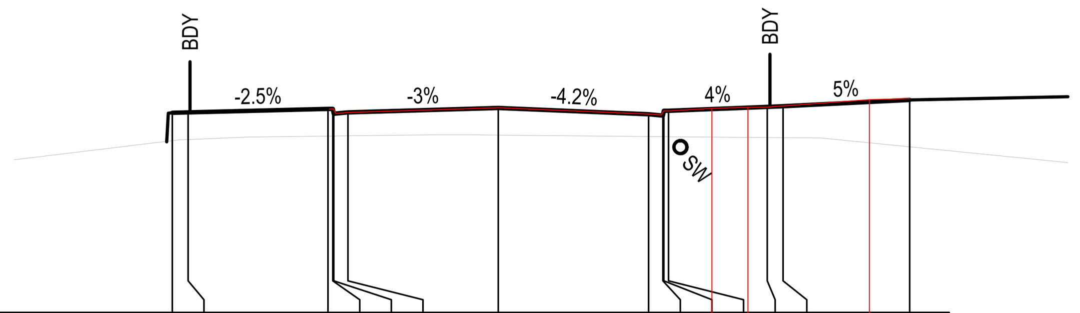
WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



DATUM R.L. 65

OFFSET	DESIGN LEVEL	EXISTING LEVEL	W.A.E.
-10.3	72.305	70.391	
-9.8	72.318	70.413	
-5.38 5.36	72.428	70.608	72.41
-5.23 5.23	72.428	70.614	72.41
-5.2 5.17	72.278	70.616	72.28
-4.75 4.70	72.318	70.635	72.31
0	72.461	70.786	72.48
4.75 4.75	72.366	70.958	72.37

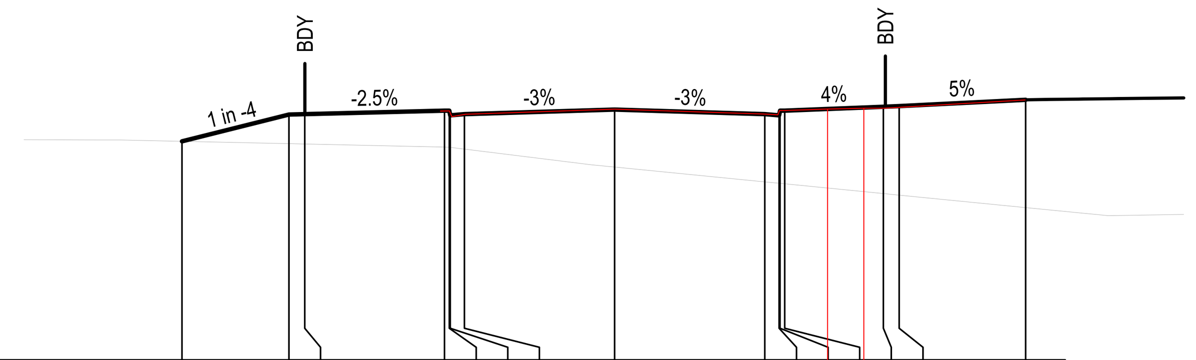
CH 254.877



DATUM R.L. 66

OFFSET	DESIGN LEVEL	EXISTING LEVEL	W.A.E.
-10.3	72.311	71.429	
-9.8	72.323	71.467	
-5.38 5.34	72.434	71.575	72.43
-5.23 5.20	72.434	71.577	72.43
-5.2 5.14	72.284	71.577	72.29
-4.75 4.70	72.324	71.583	72.33
0	72.466	71.606	72.47
4.75 4.73	72.265	71.561	72.28
5.2 5.15	72.225	71.557	72.24
5.23 5.23 5.36	72.375	71.557	72.38 72.37
5.38 6.75 7.89	72.375	71.555	72.45 72.48
8.5	72.5	71.529	72.49
9	72.52	71.525	72.53
11.72			72.73
13	72.72	71.235	72.76

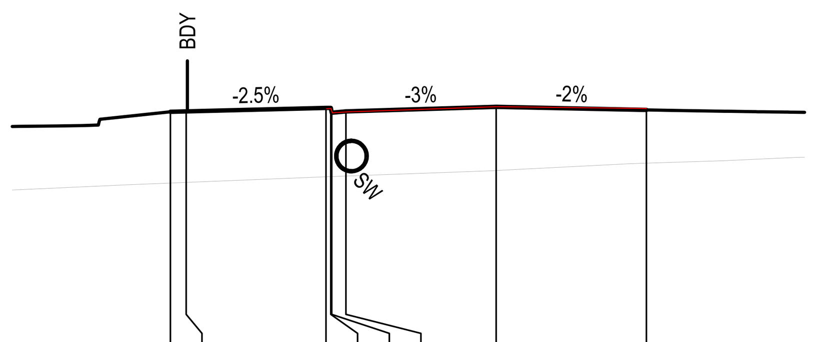
CH 285



DATUM R.L. 65

OFFSET	DESIGN LEVEL	EXISTING LEVEL	W.A.E.
-13.683	71.91	71.91	
-10.3	72.756	71.837	
-9.8	72.768	71.825	
-5.38 5.51	72.879	71.726	72.86
-5.23 5.22	72.879	71.723	72.87
-5.2 5.15	72.729	71.719	72.69
-4.75 4.72	72.769	71.664	72.77
0	72.911	71.096	72.92
4.75 4.69	72.769	70.628	72.77
5.2 5.16	72.729	70.583	72.75
5.23 5.22 5.35	72.879	70.58	72.88 72.88
5.38 6.73 7.88	72.879	70.566	72.93 72.96
8.5	73.004	70.258	72.96
9	73.024	70.209	
13	73.224	69.815	73.22

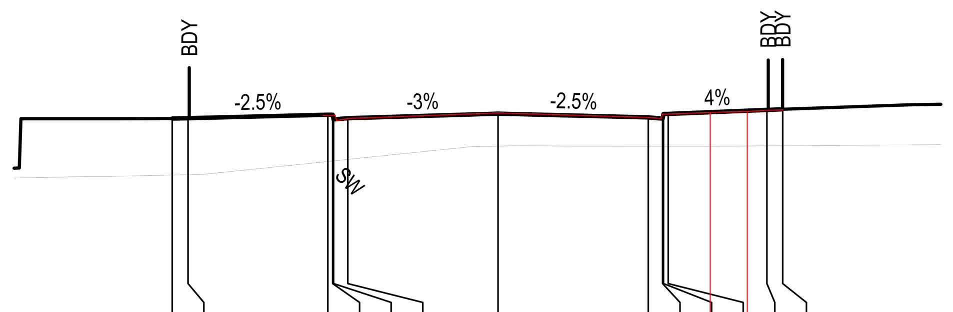
CH 315.267



DATUM R.L. 65

OFFSET	DESIGN LEVEL	EXISTING LEVEL	W.A.E.
-10.3	72.414	70.159	
-9.8	72.426	70.179	
-5.38 5.36	72.537	70.356	72.51
-5.23 5.22	72.537	70.362	72.52
-5.2 5.18	72.387	70.363	72.38
-4.75 4.73	72.427	70.381	72.41
0	72.569	70.555	72.57
4.75	72.474	70.787	72.52

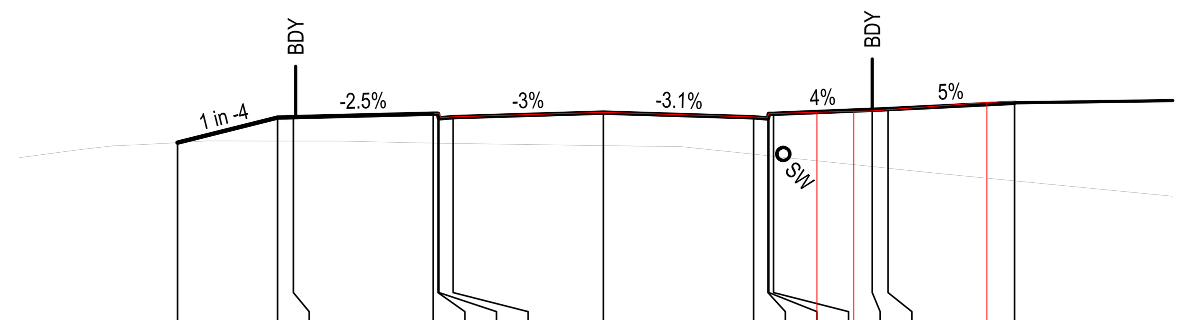
CH 245



DATUM R.L. 66

OFFSET	DESIGN LEVEL	EXISTING LEVEL	W.A.E.
-10.3	72.224	70.435	
-9.8	72.236	70.446	
-5.38 5.53	72.347	70.865	72.32
-5.23 5.14	72.347	70.88	72.33
-5.2 5.11	72.197	70.884	72.16
-4.75 4.71	72.237	70.93	72.23
0	72.379	71.349	72.40
4.75 4.71	72.263	71.348	72.27
5.2 5.15	72.223	71.348	72.23
5.23 5.20 5.35	72.373	71.348	72.37 72.37
5.38 6.71 7.88	72.373	71.347	72.42 72.45
8.5	72.497	71.359	72.49
9	72.517	71.362	72.50

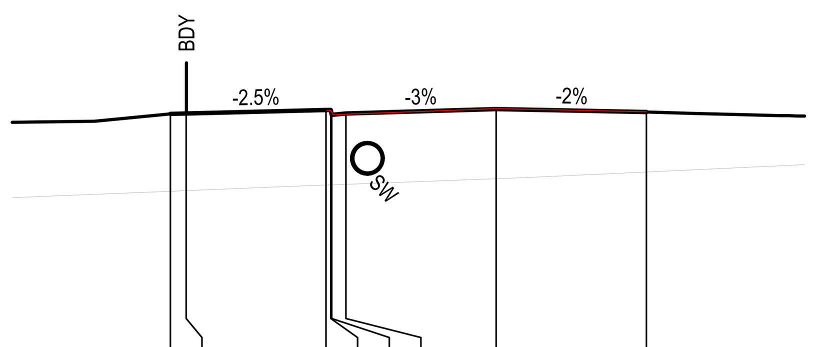
CH 269.684



DATUM R.L. 66

OFFSET	DESIGN LEVEL	EXISTING LEVEL	W.A.E.
-13.464	71.736	71.736	
-10.3	72.527	71.785	
-9.8	72.539	71.785	
-5.38 5.34	72.65	71.719	72.66
-5.23 5.19	72.65	71.717	72.66
-5.2 5.14	72.5	71.717	72.52
-4.75 4.72	72.54	71.71	72.55
0	72.682	71.642	72.69
4.75 4.75	72.536	71.369	72.55
5.2 5.17	72.496	71.322	72.52
5.23 5.24 5.36	72.646	71.319	72.65 72.65
5.38 6.75 7.92	72.646	71.304	72.70 72.73
8.5	72.771	70.979	72.73
9	72.791	70.927	72.77
12.12			73.00
13	72.991	70.527	73.04

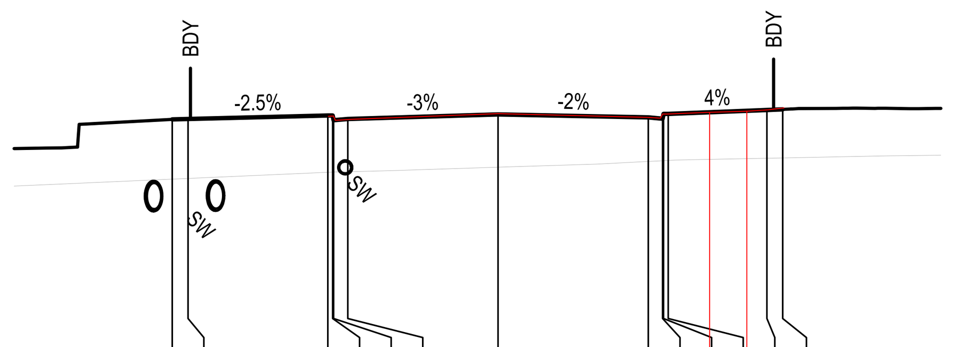
CH 300



DATUM R.L. 65

OFFSET	DESIGN LEVEL	EXISTING LEVEL	W.A.E.
-10.3	72.469	70.024	
-9.8	72.481	70.045	
-5.38 5.36	72.592	70.221	72.57
-5.23 5.22	72.592	70.227	72.58
-5.2 5.16	72.442	70.228	72.44
-4.75 4.71	72.482	70.245	72.46
0	72.624	70.42	72.64
4.75	72.529	70.633	72.54

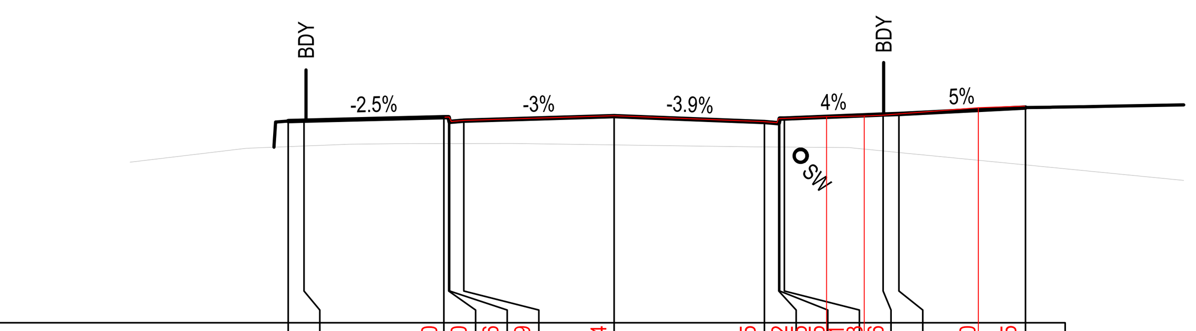
CH 240



DATUM R.L. 65

OFFSET	DESIGN LEVEL	EXISTING LEVEL	W.A.E.
-10.3	72.298	70.408	
-9.8	72.31	70.43	
-5.38 5.36	72.421	70.624	72.39
-5.23 5.21	72.421	70.63	72.40
-5.2 5.14	72.271	70.631	72.27
-4.75 4.69	72.311	70.642	72.30
0	72.453	70.787	72.48
4.75 4.74	72.358	70.966	72.36
5.2 5.13	72.318	70.99	72.33
5.23 5.20 5.36	72.468	70.991	72.47 72.47
5.38 6.69 7.86	72.468	70.999	72.52 72.55
8.5 8.51	72.593	71.068	72.60
9 9.04	72.613	71.078	72.66

CH 255.57



DATUM R.L. 66

OFFSET	DESIGN LEVEL	EXISTING LEVEL	W.A.E.
-10.3	72.375	71.565	
-9.8	72.388	71.585	
-5.38 5.35	72.498	71.661	72.50
-5.23 5.21	72.498	71.662	72.50
-5.2 5.15	72.348	71.662	72.36
-4.75 4.72	72.388	71.663	72.39
0	72.531	71.621	72.54
4.75 4.72	72.344	71.557	72.35
5.2 5.15	72.304	71.553	72.32
5.23 5.19 5.31	72.454	71.552	72.45 72.45
5.38 6.71 7.90	72.454	71.551	72.51 72.53
8.5	72.579	71.428	72.56
9	72.599	71.379	
11.51			72.80
13	72.799	70.988	72.85

CH 289.877

ROAD 20

C *ROAD 20 KG AMENDED

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

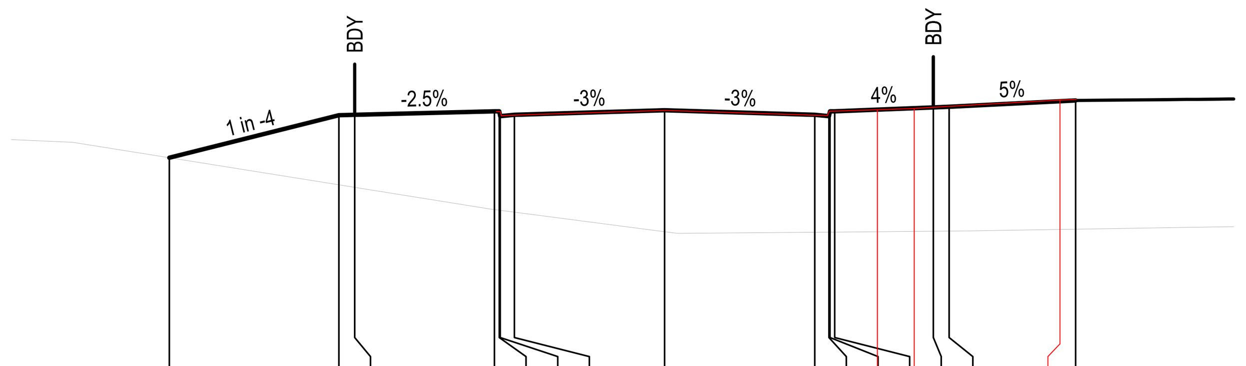
Title: ROAD CROSS SECTIONS SHEET 07

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	356	C

LEGEND

EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

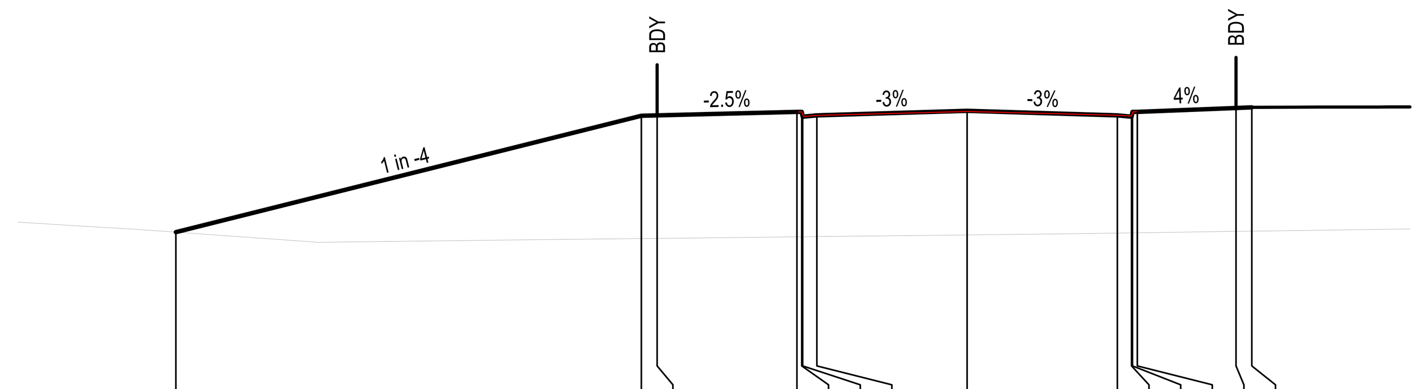
WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



DATUM R.L. 65

OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-15.664		71.677	71.677
-10.3		73.018	70.821
-9.8		73.03	70.741
-5.38 5.32	73.13	73.141	70.04
-5.23 5.20	73.13	73.141	70.02
-5.2 5.16	73.00	72.991	70.016
-4.75 4.70	73.02	73.031	69.958
0	73.17	73.173	69.34
4.75 4.72	73.02	73.031	69.324
5.2 5.16	73.01	72.991	69.328
5.23 5.21	73.15	73.141	69.328
5.38 5.35	73.15	73.141	69.329
6.73	73.19		
7.89	73.23		
8.5	73.27	73.266	69.355
9	73.31	73.286	69.359
12.50	73.50		
13	73.52	73.486	69.42

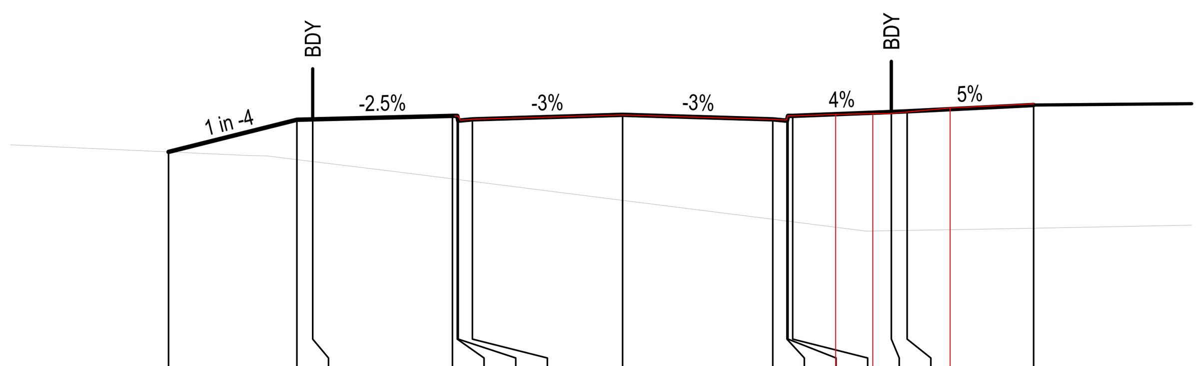
CH 345



DATUM R.L. 64

OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-25.014		69.227	69.227
-10.3		72.906	69.025
-9.8		72.918	69.03
-5.38 5.33	73.03	73.029	69.079
-5.23 5.23	73.03	73.029	69.081
-5.2 5.17	72.89	72.879	69.081
-4.75 4.72	72.92	72.919	69.086
0	73.04	73.061	69.139
4.75 4.76	72.92	72.919	69.199
5.2 5.20	72.90	72.879	69.206
5.23 5.24	73.03	73.029	69.206
5.38 5.36	73.03	73.029	69.209
8.5		73.154	69.252
9		73.174	69.259

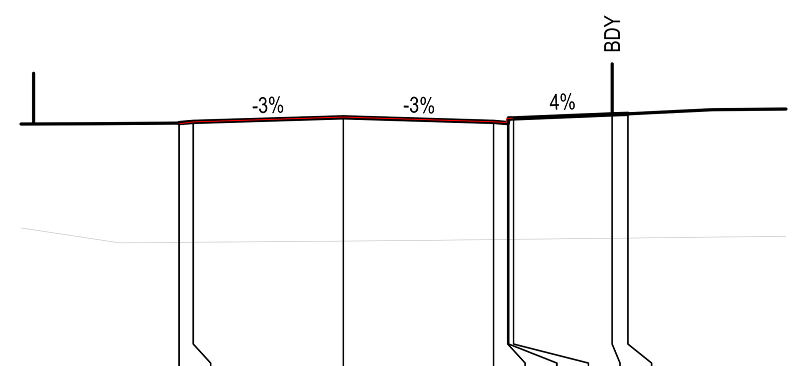
CH 375.267



DATUM R.L. 65

OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-14.359		71.917	71.917
-10.3		72.932	71.672
-9.8		72.944	71.611
-5.38 5.32	73.05	73.055	71.065
-5.23 5.20	73.05	73.055	71.046
-5.2 5.14	72.92	72.905	71.042
-4.75 4.68	72.95	72.945	70.985
0	73.08	73.087	70.386
4.75 4.71	72.95	72.945	69.786
5.2 5.18	72.92	72.905	69.729
5.23 5.22	73.06	73.055	69.726
5.38 5.37	73.05	73.055	69.707
6.73	73.10		
7.91	73.13		
8.5	73.13	73.18	69.425
9	73.18	73.2	69.434
10.36	73.31		
13	73.44	73.4	69.505

CH 330



DATUM R.L. 65

OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-5.2 5.17	72.97	72.983	69.213
-4.75 4.72	73.02	73.023	69.216
0	73.18	73.166	69.255
4.75 4.73	73.03	73.023	69.302
5.2 5.15	73.00	72.983	69.307
5.23 5.17	73.14	73.133	69.307
5.38 5.35	73.14	73.133	69.309
8.5		73.258	69.344
9		73.278	69.349

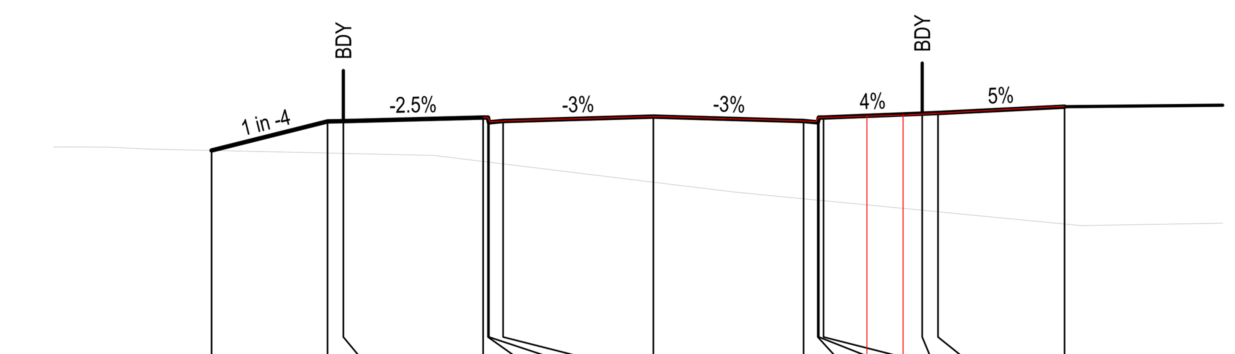
CH 360

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

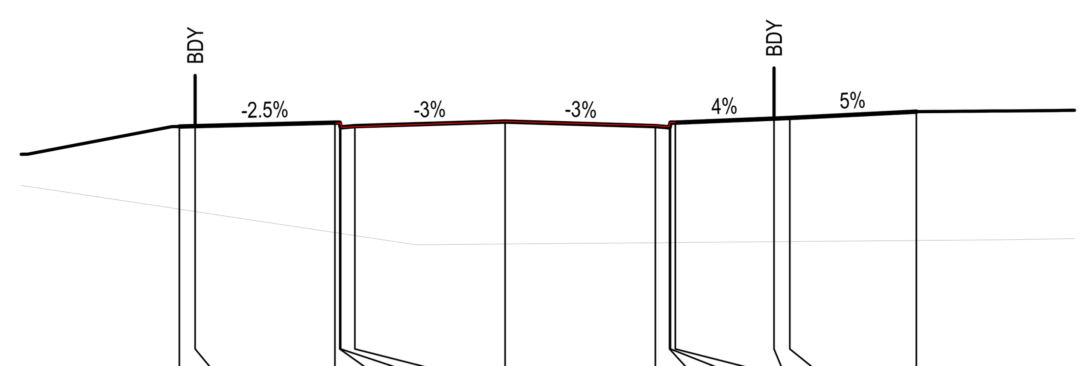
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



DATUM R.L. 65

OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-13.965		71.899	71.899
-10.3		72.815	71.817
-9.8		72.827	71.806
-5.38 5.37	72.94	72.938	71.552
-5.23 5.23	72.94	72.938	71.534
-5.2 5.17	72.81	72.788	71.53
-4.75 4.69	72.83	72.828	71.475
0	72.97	72.97	70.895
4.75 4.72	72.83	72.828	70.371
5.2 5.14	72.81	72.788	70.328
5.23 5.22	72.94	72.938	70.325
5.38 5.35	72.94	72.938	70.311
6.75	72.98		
7.89	73.01		
8.5	73.05	73.063	70.009
9	73.08	73.083	69.96
13	73.30	73.283	69.573

CH 319.441



DATUM R.L. 65

OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-10.3		73.026	70.416
-9.8		73.038	70.341
-5.38 5.36	73.13	73.149	69.676
-5.23 5.21	73.13	73.149	69.653
-5.2 5.17	73.00	72.999	69.649
-4.75 4.71	73.02	73.039	69.581
0	73.19	73.181	69.316
4.75 4.72	73.05	73.039	69.355
5.2 5.18	73.02	72.999	69.359
5.23 5.22	73.16	73.149	69.359
5.38 5.37	73.15	73.149	69.361
8.5		73.274	69.387
9		73.294	69.391
13		73.494	69.424

CH 351.267

*ROAD 20 KG AMENDED (C)

ROAD 20

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

JAS-ANZ WWW.JAS-ANZ.ORG/REGISTER

Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ROAD CROSS SECTIONS SHEET 08

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	357	C

LEGEND	
EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

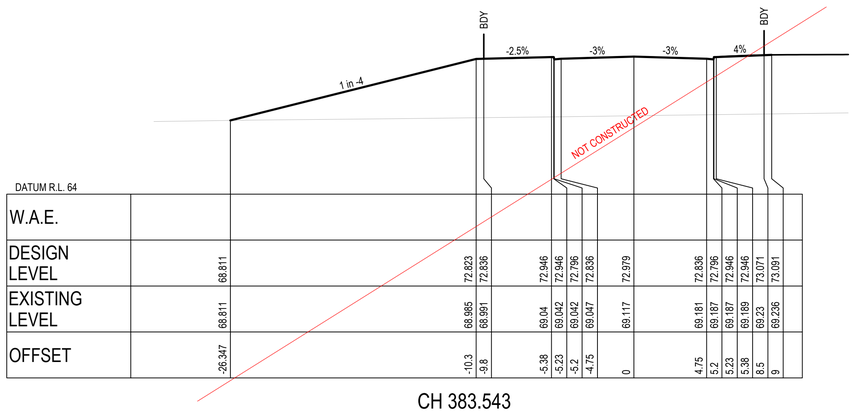
REGISTERED SURVEYOR ID: 8890
ORION GROUP

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



DATUM R.L. 64																							
W.A.E.																							
DESIGN LEVEL	68.811					72.823	72.836			72.946	72.946	72.796	72.836		72.979			72.836	72.796	72.946	72.946	73.071	73.091
EXISTING LEVEL	68.811					66.985	66.991			69.04	69.042	69.042	69.047		69.117			69.181	69.187	69.187	69.189	69.23	69.236
OFFSET	-26.347					-10.3	-9.8			-5.38	-5.23	-5.2	-4.75		0			4.75	5.2	5.23	5.38	6.5	9

CH 383.543

ROAD 20

*ROAD 20 KG AMENDED

C

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

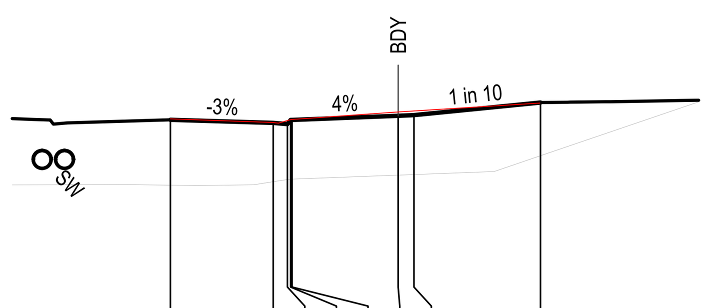
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ROAD CROSS SECTIONS SHEET 09

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	358	C

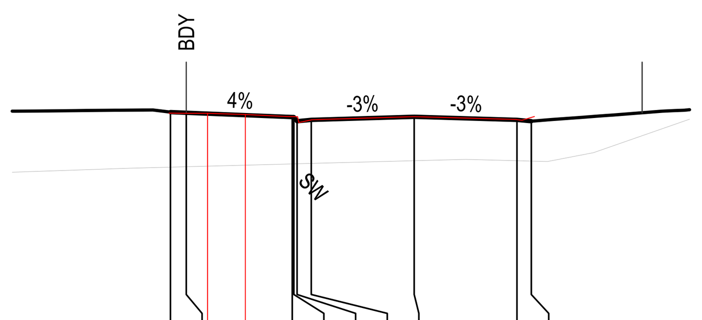
ROAD 25



DATUM R.L. 68

W.A.E.	74.32	74.20	74.18		74.30	74.54	74.57	74.82
DESIGN LEVEL	74.288	74.191	74.151	74.281	74.281	74.415	74.435	74.835
EXISTING LEVEL	72.219	72.329	72.399	72.408	72.41	72.538	72.557	73.152
OFFSET	0	3.25 3.24	3.7 3.41	3.8	3.85 3.81	7.2	7.7	11.7 11.68

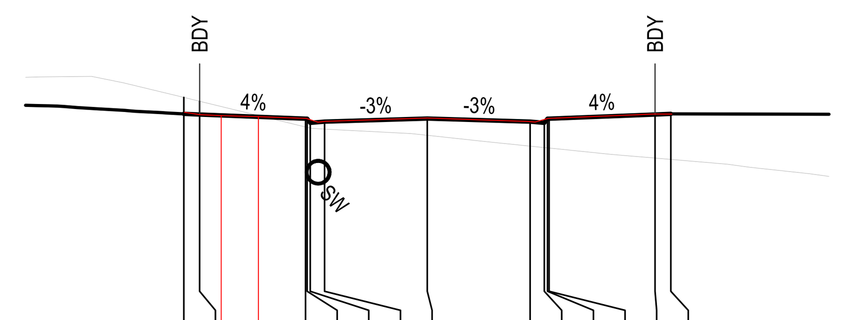
CH 22.731



DATUM R.L. 68

W.A.E.	74.73	74.73	74.72 74.69	74.62	74.62	74.44	74.52	74.62	74.53	74.51	74.62
DESIGN LEVEL	74.762	74.742		74.608	74.608	74.478	74.518	74.616	74.518	74.478	
EXISTING LEVEL	73.025	73.038		73.126	73.127	73.13	73.142	73.227	73.228	73.216	
OFFSET	-7.7	-7.2	6.53 5.33	-3.85 4.02	-3.8 3.68	-3.7 3.64	-3.25 3.22	0	3.25 3.21	3.7 3.41	3.80

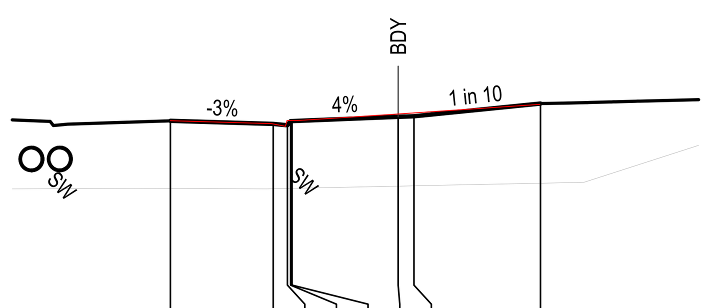
CH 35.833



DATUM R.L. 69

W.A.E.	75.66	75.58	75.55 75.52	75.46		75.35	75.37	75.48	75.37	75.35		75.47	75.60	75.60
DESIGN LEVEL	75.609	75.589		75.455	75.455	75.325	75.365	75.462	75.365	75.325	75.455	75.455	75.589	75.609
EXISTING LEVEL	76.129	76.008		75.195	75.183	75.159	75.128	74.932	74.59	74.544	74.534	74.529	74.211	74.168
OFFSET	-7.7	-7.2	6.52 5.34	-3.85 3.83	-3.8	-3.7 3.46	-3.25 3.22	0	3.25 3.19	3.7 3.41	3.8	3.85 3.82	7.2	7.7

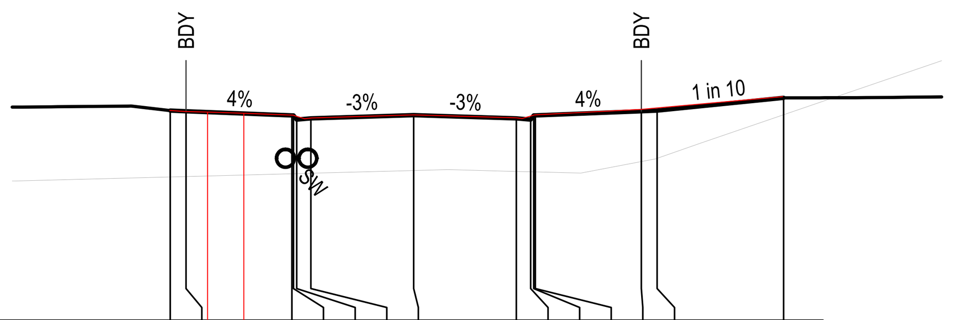
CH 69.698



DATUM R.L. 68

W.A.E.	74.20	74.11	74.02	74.20	74.20	74.41	74.44	74.72
DESIGN LEVEL	74.194	74.096	74.056	74.186	74.186	74.32	74.34	74.74
EXISTING LEVEL	72.058	72.05	72.059	72.061	72.062	72.131	72.141	72.223
OFFSET	0	3.25 3.20	3.7 3.64	3.8 3.69	3.85 4.01	7.2	7.7	11.7

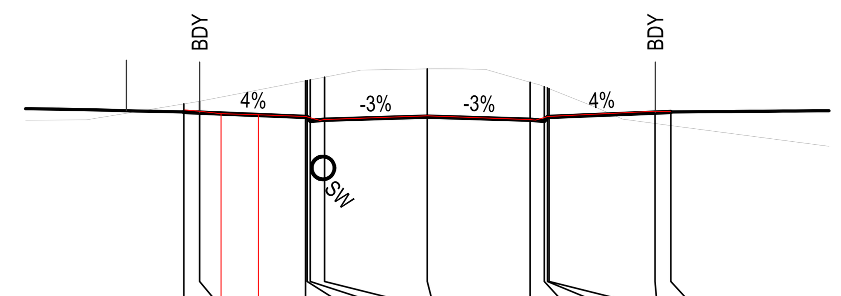
CH 15.157



DATUM R.L. 68

W.A.E.	74.62	74.58	74.57 74.53	74.47		74.36	74.39	74.48	74.39	74.36		74.48	74.65	74.70	75.06
DESIGN LEVEL	74.616	74.596		74.462	74.462	74.332	74.372	74.47	74.372	74.332	74.462	74.462	74.596	74.616	75.016
EXISTING LEVEL	72.521	72.534		72.622	72.623	72.626	72.637	72.723	72.695	72.684	72.681	72.68	73.007	73.109	74.485
OFFSET	-7.7	-7.2	6.52 5.37	-3.85 3.82	-3.8	-3.7 3.45	-3.25 3.23	0	3.25 3.25	3.7 3.43	3.8	3.85 3.83	7.2	7.7	11.7

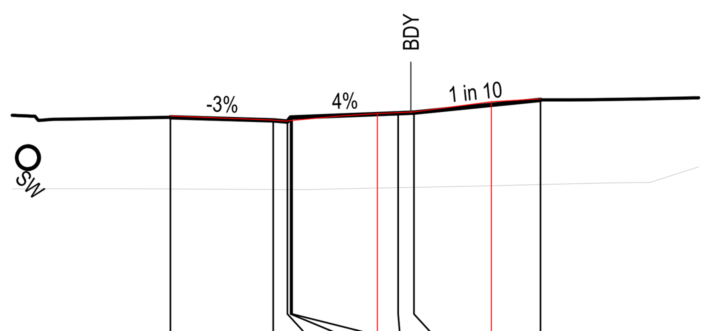
CH 30



DATUM R.L. 69

W.A.E.	75.43	75.39	75.31 75.28	75.22		75.10	75.13	75.24	75.13	75.11		75.22	75.39	75.38
DESIGN LEVEL	75.366	75.346		75.212	75.212	75.082	75.122	75.22	75.122	75.082	75.212	75.212	75.346	75.366
EXISTING LEVEL	75.623	75.708		76.353	76.363	76.382	76.469	76.73	76.309	76.164	76.124	76.104	75.004	74.938
OFFSET	-7.7	-7.2	6.52 5.34	-3.85 3.84	-3.8	-3.7 3.39	-3.25 3.26	0	3.25 3.22	3.7 3.42	3.8	3.85 3.81	7.2	7.7

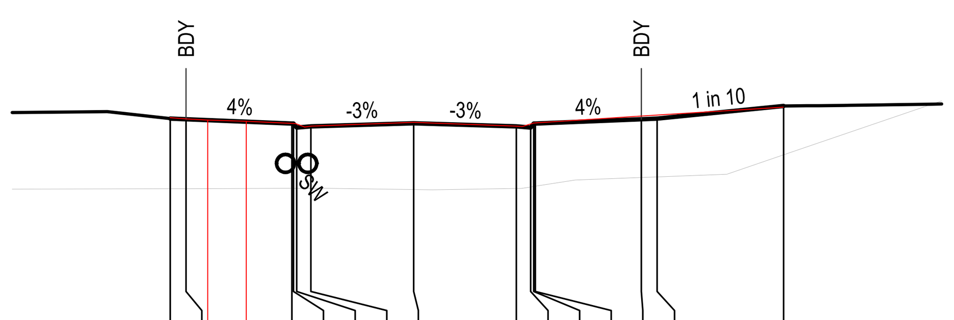
CH 60



DATUM R.L. 67

W.A.E.	74.26	74.13	74.10	74.12	74.34	74.37	74.39	74.71	74.80
DESIGN LEVEL	74.222	74.125	74.085	74.215	74.215	74.349	74.369		74.769
EXISTING LEVEL	71.953	71.94	71.938	71.938	71.937	71.996	72.006		72.094
OFFSET	0	3.25 3.20	3.7 3.65	3.8 3.87	3.85 6.54	7.2	7.7	10.15	11.7

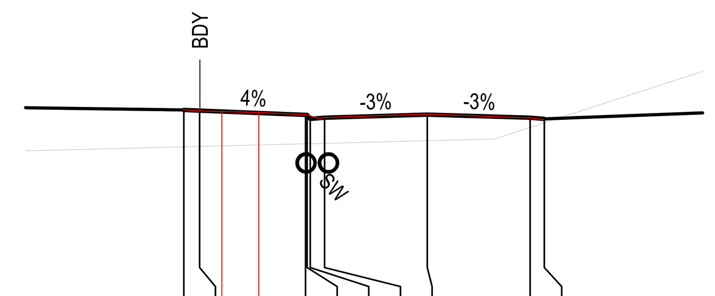
CH 11.001



DATUM R.L. 68

W.A.E.	74.49	74.45	74.41 74.37	74.30		74.19	74.22	74.34	74.22	74.21		74.32	74.54	74.57	74.82
DESIGN LEVEL	74.457	74.437		74.303	74.303	74.173	74.213	74.311	74.213	74.173	74.303	74.303	74.437	74.457	74.857
EXISTING LEVEL	72.245	72.246		72.255	72.255	72.256	72.257	72.218	72.251	72.3	72.315	72.323	72.599	72.618	73.313
OFFSET	-7.7	-7.2	6.51 5.30	-3.85 3.74	-3.8	-3.7 3.45	-3.25 3.23	0	3.25 3.22	3.7 3.44	3.8	3.85 3.80	7.2	7.7	11.7 11.69

CH 23.624



DATUM R.L. 69

W.A.E.	75.00	74.96	74.94 74.91	74.84		74.72	74.75	74.86	74.74	74.69
DESIGN LEVEL	74.991	74.971		74.837	74.837	74.707	74.747	74.845	74.747	74.707
EXISTING LEVEL	73.822	73.835		73.919	73.921	73.923	73.935	74.017	74.439	74.585
OFFSET	-7.7	-7.2	6.50 5.33	-3.85 3.81	-3.8	-3.7 3.44	-3.25 3.22	0	3.25 3.25	3.7 3.67

CH 45

LEGEND	
EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ROAD CROSS SECTIONS SHEET 10

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	359	B

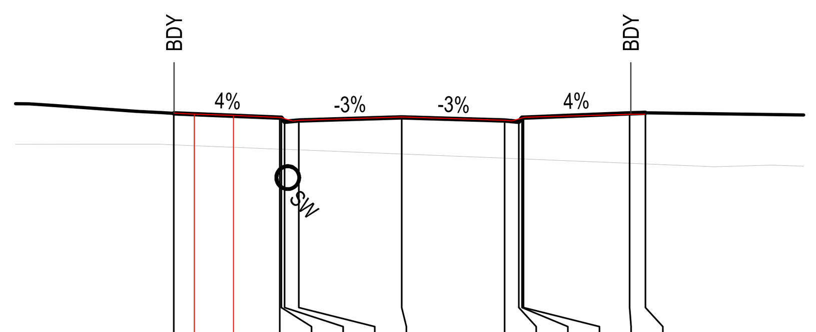
LEGEND

EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

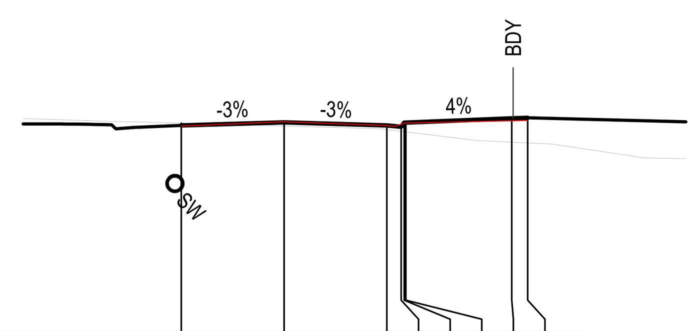
REGISTERED SURVEYOR ID: 8890
ORION GROUP



DATUM R.L. 69

W.A.E.	76.14	76.11 76.07	76.00		75.89	75.91	76.02	75.91	75.89		76.01	76.10	76.10
DESIGN LEVEL	76.128		75.994	75.994	75.864	75.904	76.002	75.904	75.864	75.994	75.994	76.128	76.148
EXISTING LEVEL	75.137		75.001	74.999	74.995	74.977	74.846	74.714	74.696	74.692	74.69	74.554	74.534
OFFSET	-7.2	6.56 5.32	-3.85 3.83	-3.8	-3.7 3.45	-3.25 3.23	0	3.25 3.29	3.7 3.48	3.8	3.85 3.88	7.2	7.7

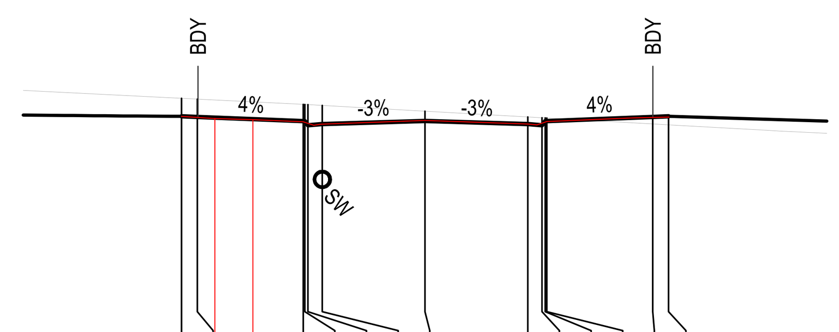
CH 91.276



DATUM R.L. 70

W.A.E.	76.53	76.64	76.52	76.50		76.60	76.67	76.68
DESIGN LEVEL	76.525	76.622	76.525	76.485	76.615	76.615	76.749	76.769
EXISTING LEVEL	76.596	76.509	76.396	76.34	76.328	76.322	75.998	75.973
OFFSET	-3.25	0	3.25 3.26	3.7 3.49	3.8	3.85 3.84	7.2	7.7

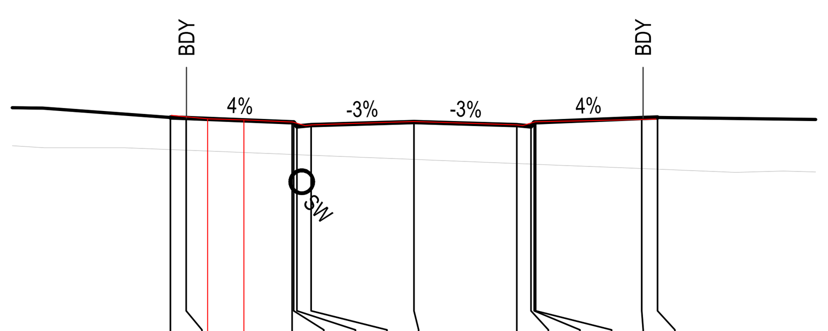
CH 120



DATUM R.L. 70

W.A.E.	77.16	77.14	77.10 77.06	76.99	76.88		76.92	77.03	76.92	76.90		77.00	77.12	77.14
DESIGN LEVEL	77.166	77.146		77.012	77.012	76.882	76.922	77.019	76.922	76.882	77.012	77.012	77.146	77.166
EXISTING LEVEL	77.735	77.71		77.542	77.54	77.535	77.51	77.328	77.146	77.121	77.115	77.113	76.925	76.897
OFFSET	-7.7	-7.2	6.64 5.44	-3.85 3.86	-3.8 3.52	-3.7	-3.25 3.29	0	3.25 3.27	3.7 3.54	3.8	3.85 3.86	7.2 6.57	7.7 7.72

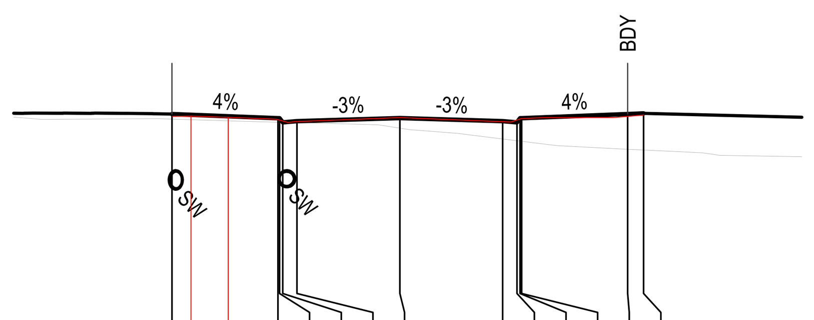
CH 146.276



DATUM R.L. 69

W.A.E.	76.18	76.14	76.07 76.04	75.97		75.86	75.88	75.99	75.88	75.86		75.98	76.05	76.06
DESIGN LEVEL	76.116	76.096		75.962	75.962	75.832	75.872	75.97	75.872	75.832	75.962	75.962	76.096	76.116
EXISTING LEVEL	75.1	75.08		74.945	74.943	74.939	74.921	74.79	74.659	74.641	74.637	74.635	74.5	74.48
OFFSET	-7.7	-7.2	6.53 5.38	-3.85 3.83	-3.8	-3.7 3.44	-3.25 3.22	0	3.25 3.24	3.7 3.44	3.8	3.85 3.84	7.2	7.7

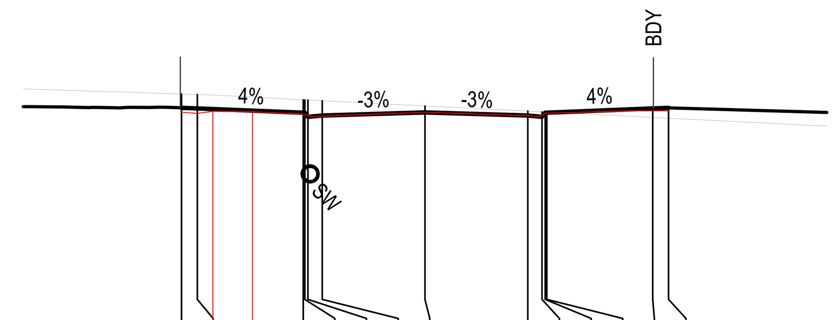
CH 90



DATUM R.L. 70

W.A.E.	76.59	76.60 76.56	76.50		76.40	76.43	76.55	76.41	76.52		76.55	76.55	76.63
DESIGN LEVEL	76.664		76.53	76.53	76.4	76.44	76.537	76.44	76.4	76.53	76.53	76.664	76.684
EXISTING LEVEL	76.504		76.407	76.405	76.403	76.391	76.219	75.877	75.822	75.81	75.803	75.551	75.528
OFFSET	-7.2 7.18	6.60 5.42	-3.85 3.91	-3.8	-3.7 3.54	-3.25 3.30	0	3.25 3.51	3.7 3.83	3.8	3.85 4.56	7.2	7.7

CH 115.469



DATUM R.L. 70

W.A.E.	76.90	76.87	76.94 76.92	76.86		76.77	76.79	76.91	76.80	76.77		76.88	76.95	76.95
DESIGN LEVEL	77.048	77.028		76.894	76.894	76.764	76.804	76.902	76.804	76.764	76.894	76.894	77.028	77.048
EXISTING LEVEL	77.484	77.467		77.3	77.297	77.292	77.269	77.106	76.944	76.921	76.916	76.914	76.746	76.721
OFFSET	-7.7	-7.2	6.71 5.45	-3.85 3.90	-3.8	-3.7 3.56	-3.25 3.25	0	3.25 3.28	3.7 3.55	3.8	3.85 3.87	7.2 6.51	7.7 7.70

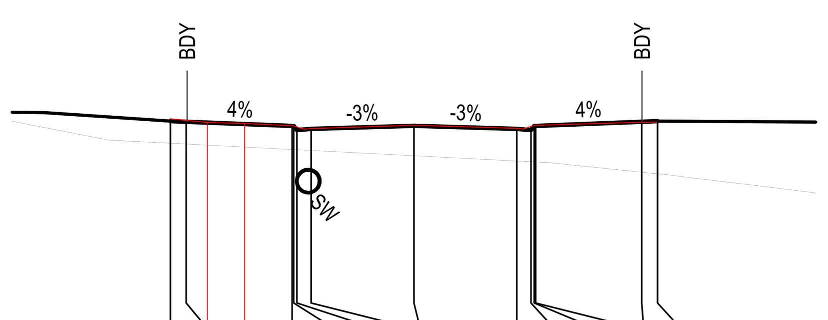
CH 137.269

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

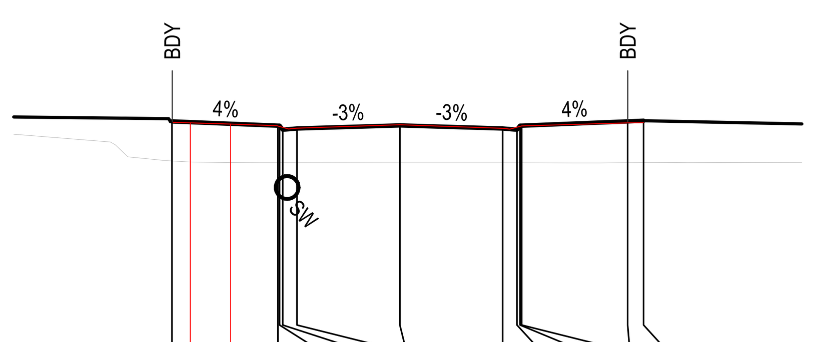
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



DATUM R.L. 69

W.A.E.	75.81	75.76	75.70 75.66	75.59		75.48	75.50	75.61	75.51	75.49		75.61	75.70	75.71
DESIGN LEVEL	75.741	75.721		75.587	75.587	75.457	75.497	75.595	75.497	75.457	75.587	75.587	75.721	75.741
EXISTING LEVEL	75.044	75.018		74.846	74.844	74.839	74.816	74.649	74.482	74.459	74.454	74.451	74.13	74.083
OFFSET	-7.7	-7.2	6.53 5.35	-3.85 3.82	-3.8	-3.7 3.47	-3.25 3.25	0	3.25 3.23	3.7 3.45	3.8	3.85 3.81	7.2	7.7

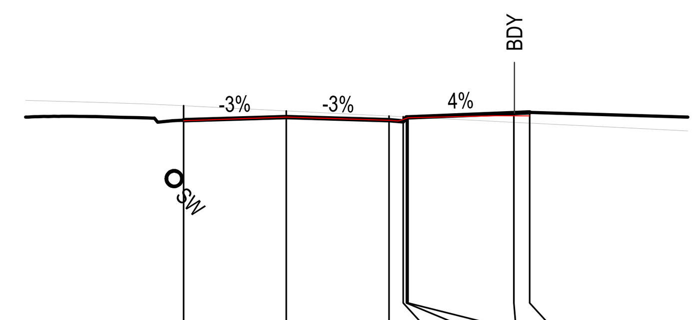
CH 75



DATUM R.L. 69

W.A.E.	76.42	76.40 76.36	76.31		76.21	76.23	76.34	76.23		76.20	76.31	76.40	76.40
DESIGN LEVEL	76.449		76.315	76.315	76.185	76.225	76.323	76.225	76.185	76.315	76.315	76.449	76.469
EXISTING LEVEL	75.194		75.14	75.14	75.14	75.139	75.137	75.135	75.134	75.134	75.134	75.139	75.144
OFFSET	-7.2 7.17	6.62 5.34	-3.85 3.89	-3.8	-3.7 3.51	-3.25 3.28	0	3.25 3.27	3.7	3.8 3.48	3.85 3.85	7.2	7.7

CH 105



DATUM R.L. 70

W.A.E.	76.75	76.87	76.77	76.74		76.85	76.91	76.91
DESIGN LEVEL	76.771	76.869	76.771	76.731	76.861	76.861	76.995	77.015
EXISTING LEVEL	77.227	77.065	76.902	76.88	76.875	76.872	76.705	76.68
OFFSET	-3.25	0	3.25 3.28	3.7 3.54	3.8	3.85 3.86	7.2 6.64	7.7

CH 135

ROAD 25

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

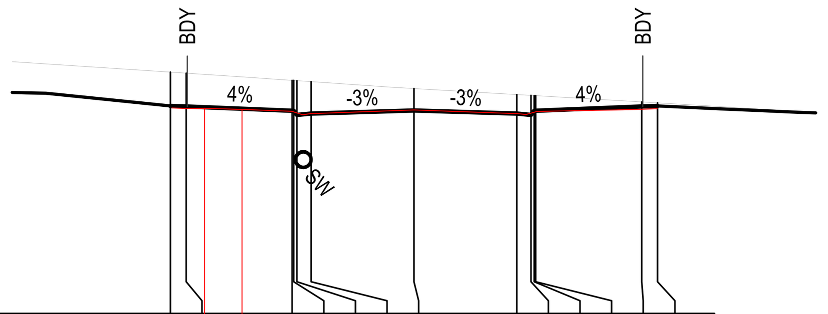
Title:
ROAD CROSS SECTIONS
SHEET 11

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	360	B

LEGEND

EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

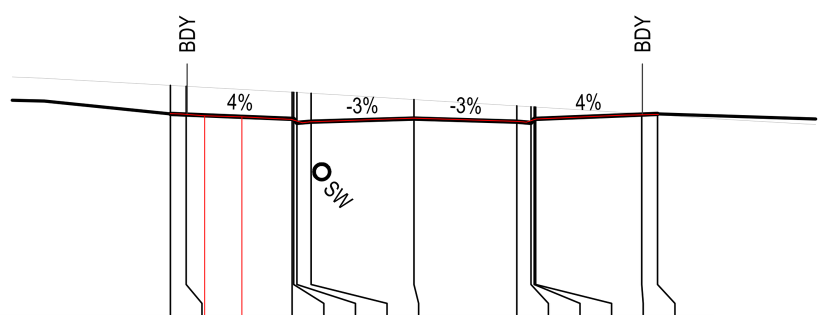
WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



DATUM R.L. 71

W.A.E.	DESIGN LEVEL	EXISTING LEVEL	OFFSET
77.51	77.571	78.638	-7.7 7.65
77.49	77.551	78.605	-7.2 7.22
77.49 77.46			6.62 5.44
77.40	77.417	78.379	-3.85 3.87
77.29	77.417	78.375	-3.8 3.52
	77.287	78.368	-3.7
77.32	77.327	78.337	-3.25 3.28
77.44	77.424	78.121	0
77.32	77.327	77.928	3.25 3.29
77.30	77.287	77.902	3.7 3.54
	77.417	77.896	3.8
77.40	77.417	77.893	3.85 3.89
77.44	77.551	77.695	7.2 6.60
77.48	77.571	77.665	7.7 7.70

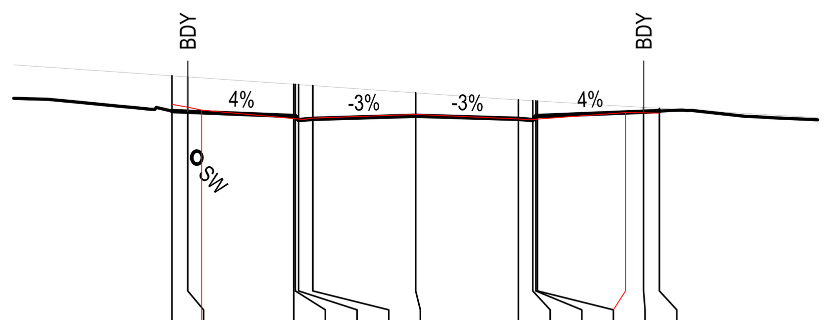
CH 180



DATUM R.L. 71

W.A.E.	DESIGN LEVEL	EXISTING LEVEL	OFFSET
77.40	77.391	78.293	-7.7
77.39	77.371	78.264	-7.2
77.33 77.30			6.62 5.44
77.22	77.237	78.075	-3.85 3.88
77.11	77.237	78.072	-3.8 3.52
	77.107	78.067	-3.7
77.14	77.147	78.041	-3.25 3.28
77.26	77.244	77.846	0
77.15	77.147	77.645	3.25 3.28
77.13	77.107	77.617	3.7 3.55
	77.237	77.611	3.8
77.23	77.237	77.608	3.85 3.86
77.35	77.371	77.4	7.2 6.56
77.38	77.391	77.365	7.7

CH 165



DATUM R.L. 71

W.A.E.	DESIGN LEVEL	EXISTING LEVEL	OFFSET
77.89	77.675	78.789	-7.7
77.80	77.655	78.754	-7.2
77.71			6.76
77.44	77.521	78.521	-3.85 3.89
	77.521	78.518	-3.8
77.41	77.391	78.511	-3.7 3.55
77.45	77.431	78.479	-3.25 3.32
77.57	77.528	78.253	0
77.43	77.431	78.03	3.25 3.27
77.40	77.391	78.003	3.7 3.54
77.43	77.521	77.997	3.8 3.87
77.63	77.521	77.994	3.85 6.63
77.62	77.655	77.795	7.2
77.61	77.675	77.765	7.7

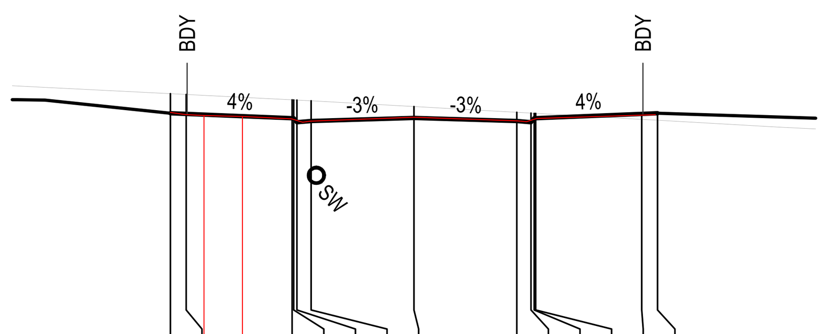
CH 186.851

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

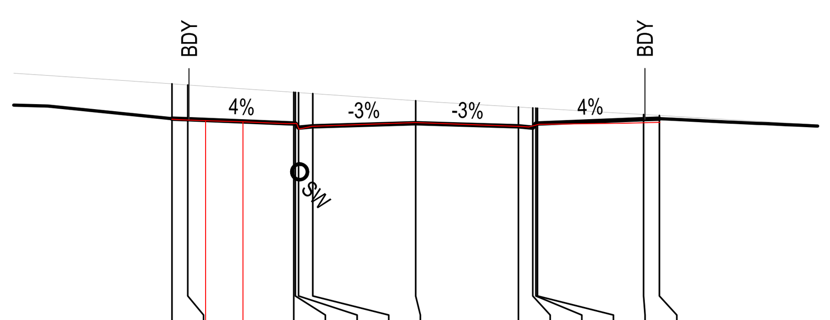
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



DATUM R.L. 70

W.A.E.	DESIGN LEVEL	EXISTING LEVEL	OFFSET
77.24	77.211	77.829	-7.7
77.17	77.191	77.803	-7.2
77.14 77.11			6.64 5.42
77.03	77.057	77.635	-3.85 3.87
	77.057	77.632	-3.8
76.93	76.927	77.627	-3.7 3.52
76.96	76.967	77.604	-3.25 3.28
77.08	77.064	77.424	0
76.97	76.967	77.24	3.25 3.29
76.94	76.927	77.215	3.7 3.56
	77.057	77.209	3.8
77.05	77.057	77.207	3.85 3.88
77.16	77.191	77.018	7.2
77.17	77.211	76.99	7.7 7.63

CH 150



DATUM R.L. 71

W.A.E.	DESIGN LEVEL	EXISTING LEVEL	OFFSET
77.58	77.599	78.697	-7.7
77.57	77.579	78.662	-7.2
77.54 77.50			6.64 5.46
77.44	77.445	78.43	-3.85 4.08
77.45	77.445	78.427	-3.8 3.76
77.27	77.315	78.42	-3.7 3.69
77.36	77.355	78.389	-3.25 3.27
77.47	77.453	78.164	0
77.35	77.355	77.965	3.25 3.30
77.34	77.315	77.938	3.7 3.58
77.42	77.445	77.932	3.8 3.89
	77.445	77.929	3.85
77.46	77.579	77.731	7.2 6.63
77.48	77.599	77.701	7.7

CH 182.41

ROAD 25

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

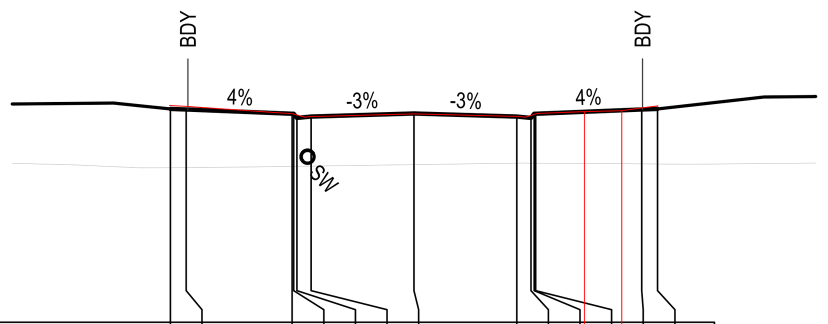
Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ROAD CROSS SECTIONS SHEET 12

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	361	B

LEGEND	
EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

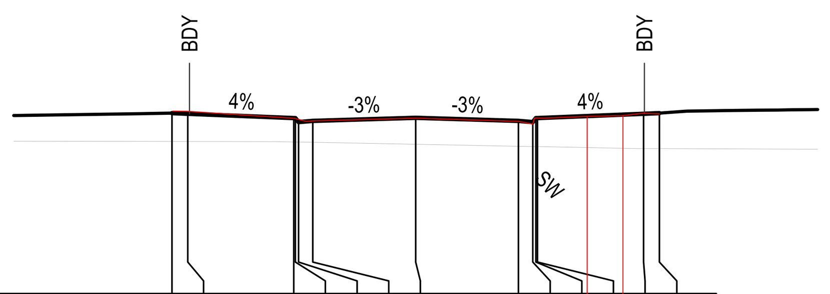
WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



DATUM R.L. 67

W.A.E.	73.85	73.82	73.59		73.49	73.50	73.59	73.51	73.48	73.60	73.66 73.69	73.78	73.84
DESIGN LEVEL	73.745	73.725	73.591	73.591	73.461	73.501	73.599	73.501	73.461	73.591	73.591	73.725	73.745
EXISTING LEVEL	71.887	71.891	71.929	71.93	71.932	71.938	71.984	72.03	72.03	72.03	72.029	72.007	72.004
OFFSET	-7.7	-7.2	-3.85 3.83	-3.8	-3.7 3.46	-3.25 3.24	0	3.25 3.31	3.7 3.52	3.8 3.89	3.85 5.39 6.57	7.2	7.7

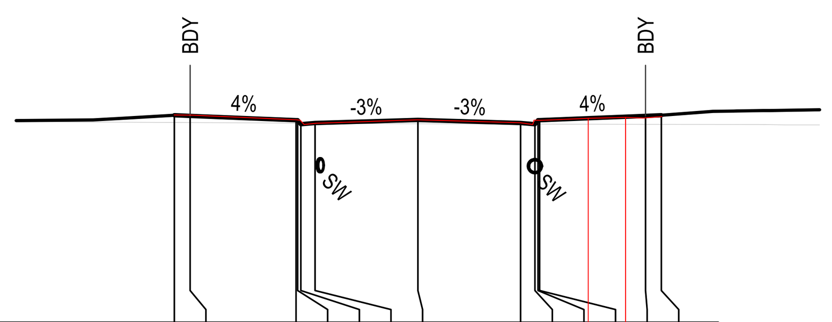
CH 24.928



DATUM R.L. 69

W.A.E.	74.78	74.78	74.56		74.45	74.47	74.56	74.45	74.37	74.56	74.61 74.64	74.71	74.69
DESIGN LEVEL	74.714	74.694	74.56	74.56	74.43	74.47	74.567	74.47	74.43	74.56	74.56	74.694	74.714
EXISTING LEVEL	73.819	73.818	73.802	73.801	73.799	73.79	73.728	73.666	73.657	73.655	73.654	73.594	73.592
OFFSET	-7.7	-7.2	-3.85 3.84	-3.8	-3.7 3.44	-3.25 3.24	0	3.25 3.25	3.7 3.70	3.8 3.75	3.85 5.42 6.55	7.2	7.7

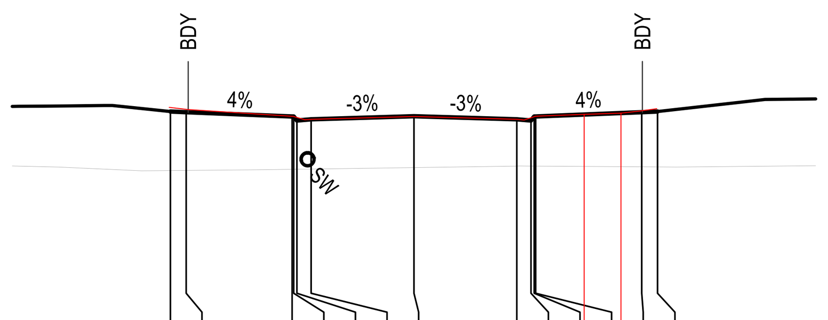
CH 60



DATUM R.L. 69

W.A.E.	75.55	75.55	75.40	75.39	75.25	75.29	75.40	75.31	75.25	75.39	75.45 75.47	75.46	75.50
DESIGN LEVEL	75.543	75.523	75.389	75.389	75.259	75.299	75.396	75.299	75.259	75.389	75.389	75.523	75.543
EXISTING LEVEL	75.314	75.312	75.291	75.29	75.289	75.286	75.272	75.264	75.263	75.263	75.263	75.257	75.256
OFFSET	-7.7	-7.2	-3.85 3.85	-3.8 3.72	-3.7 3.60	-3.25 3.22	0	3.25 3.23	3.7 3.63	3.8 3.67	3.85 5.39 6.57	7.2	7.7

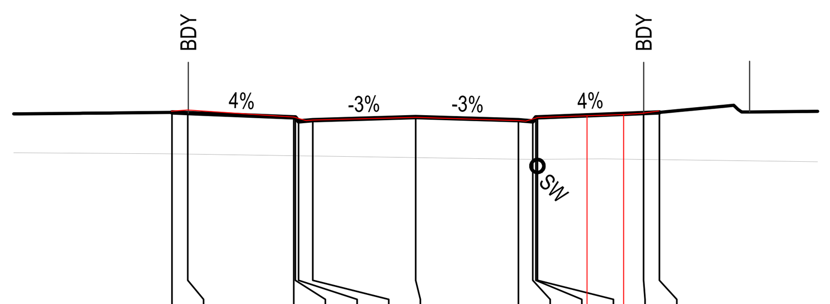
CH 90



DATUM R.L. 67

W.A.E.	73.86	73.80	73.58		73.47	73.49	73.58	73.49	73.47	73.59	73.65 73.68	73.75	73.82
DESIGN LEVEL	73.733	73.713	73.579	73.579	73.449	73.489	73.587	73.489	73.449	73.579	73.579	73.713	73.733
EXISTING LEVEL	71.872	71.876	71.912	71.912	71.914	71.92	71.967	72.013	72.012	72.011	72.011	71.989	71.986
OFFSET	-7.7	-7.2	-3.85 3.82	-3.8	-3.7 3.45	-3.25 3.23	0	3.25 3.27	3.7 3.48	3.8 3.84	3.85 5.39 6.55	7.2	7.7

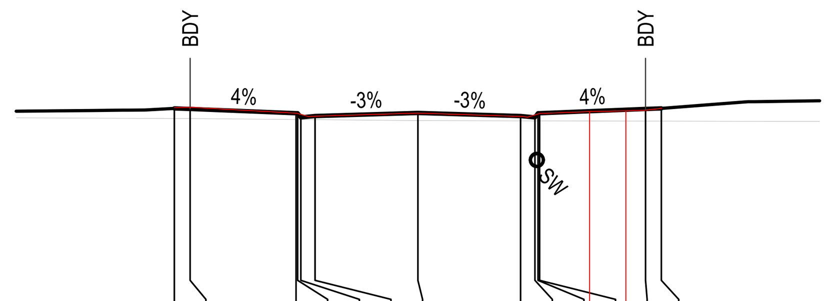
CH 24.489



DATUM R.L. 68

W.A.E.	74.34	74.38	74.15		74.04	74.06	74.15	74.04	74.03	74.14	74.19 74.23	74.28	74.35
DESIGN LEVEL	74.3	74.28	74.146	74.146	74.016	74.056	74.153	74.056	74.016	74.146	74.146	74.28	74.3
EXISTING LEVEL	72.992	72.985	72.934	72.933	72.932	72.925	72.875	72.826	72.819	72.818	72.818	72.817	72.81
OFFSET	-7.7	-7.2	-3.85 3.85	-3.8	-3.7 3.46	-3.25 3.25	0	3.25 3.26	3.7 3.48	3.8 3.86	3.85 5.42 6.57	7.2	7.7

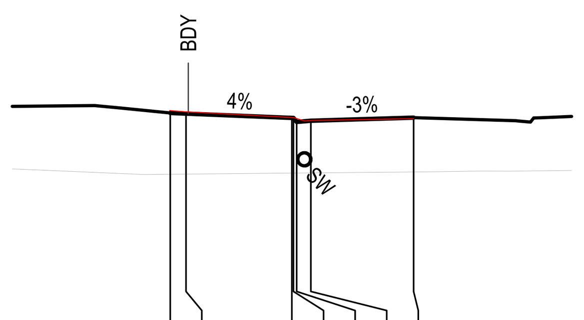
CH 45



DATUM R.L. 69

W.A.E.	75.46	75.48	75.29		75.18	75.20	75.29	75.19	75.17	75.28	75.34 75.36	75.38	75.44
DESIGN LEVEL	75.439	75.419	75.285	75.285	75.155	75.195	75.292	75.195	75.155	75.285	75.285	75.419	75.439
EXISTING LEVEL	75.117	75.114	75.086	75.085	75.084	75.081	75.053	75.045	75.044	75.044	75.044	75.036	75.035
OFFSET	-7.7	-7.2	-3.85 3.83	-3.8	-3.7 3.44	-3.25 3.22	0	3.25 3.27	3.7 3.48	3.8 3.85	3.85 5.43 6.58	7.2	7.7

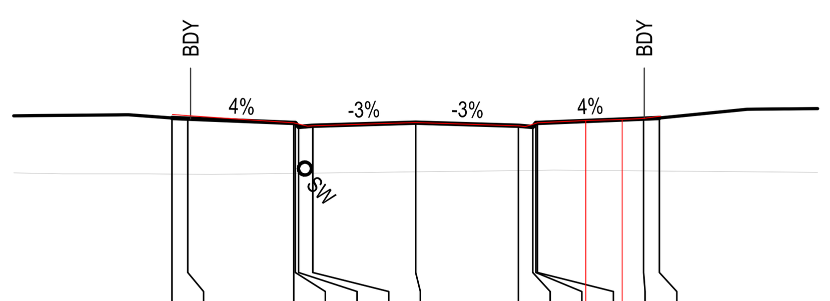
CH 86.249



DATUM R.L. 67

W.A.E.	73.71	73.67	73.49		73.38	73.40	73.45
DESIGN LEVEL	73.635	73.615	73.481	73.481	73.351	73.391	73.489
EXISTING LEVEL	71.701	71.706	71.737	71.738	71.739	71.743	71.774
OFFSET	-7.7	-7.2	-3.85 3.79	-3.8	-3.7 3.44	-3.25 3.22	0

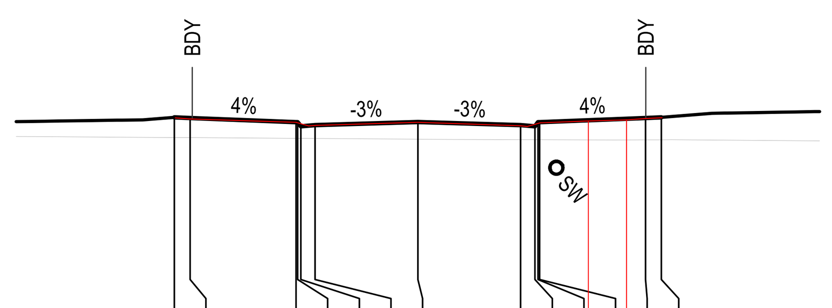
CH 19.379



DATUM R.L. 68

W.A.E.	74.00	73.96	73.73		73.63	73.64	73.74	73.64	73.61	73.73	73.81 73.84	73.87	73.94
DESIGN LEVEL	73.885	73.865	73.731	73.731	73.601	73.641	73.739	73.641	73.601	73.731	73.731	73.865	73.885
EXISTING LEVEL	72.114	72.11	72.136	72.136	72.137	72.143	72.184	72.224	72.23	72.231	72.232	72.215	72.21
OFFSET	-7.7	-7.2	-3.85 3.86	-3.8	-3.7 3.42	-3.25 3.21	0	3.25 3.29	3.7 3.45	3.8 3.86	3.85 5.38 6.52	7.2	7.7

CH 30



DATUM R.L. 69

W.A.E.	75.12	75.08	74.98		74.87	74.89	74.98	74.87	74.85	74.96	75.02 75.06	75.10	75.13
DESIGN LEVEL	75.128	75.108	74.974	74.974	74.844	74.884	74.982	74.884	74.844	74.974	74.974	75.108	75.128
EXISTING LEVEL	74.49	74.487	74.464	74.464	74.463	74.46	74.438	74.423	74.421	74.421	74.421	74.415	74.417
OFFSET	-7.7	-7.2	-3.85 3.85	-3.8	-3.7 3.45	-3.25 3.22	0	3.25 3.25	3.7 3.46	3.8 3.87	3.85 5.39 6.60	7.2	7.7

CH 75

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ROAD 26

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title:
ROAD CROSS SECTIONS
SHEET 13

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	362	B

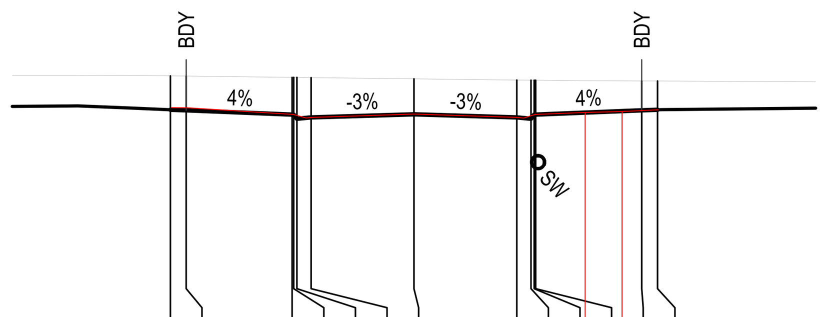
LEGEND

EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

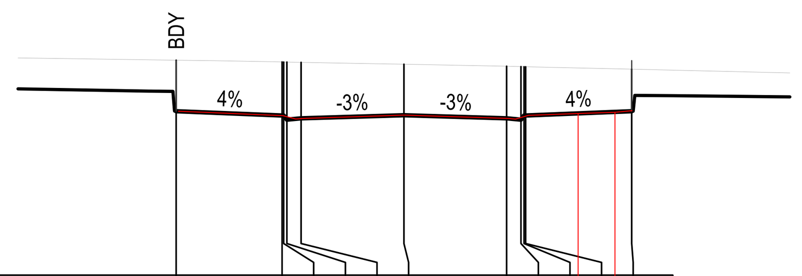
REGISTERED SURVEYOR ID: 8890
ORION GROUP



DATUM R.L. 70

OFFSET	W.A.E. OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-7.7		76.72	76.656	77.726
-7.2		76.72	76.636	77.72
-3.85	3.81	76.51	76.502	77.68
-3.8			76.502	77.679
-3.7	3.42	76.40	76.372	77.678
-3.25	3.21	76.41	76.412	77.673
0		76.52	76.51	77.633
3.25	3.27	76.41	76.412	77.596
3.7	3.47	76.39	76.372	77.592
3.8	3.83	76.51	76.502	77.591
3.85	5.41 / 6.56	76.57 / 76.60	76.502	77.59
7.2		76.63	76.636	77.567
7.7	7.72	76.66	76.656	77.564

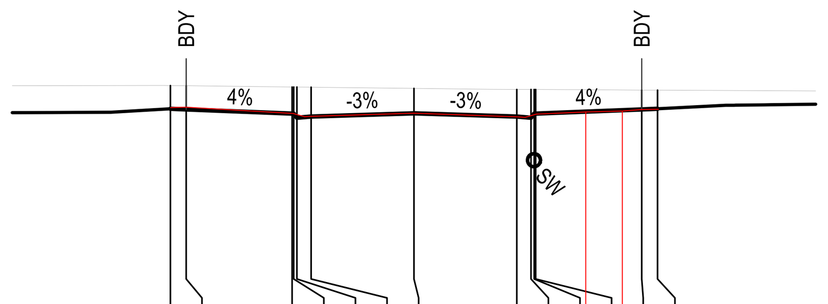
CH 130.328



DATUM R.L. 72

OFFSET	W.A.E. OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-7.2		77.18	77.18	78.794
-3.85	3.83	77.04	77.046	78.737
-3.8			77.046	78.736
-3.7	3.42	76.94	76.916	78.734
-3.25	3.19	76.95	76.956	78.726
0		77.06	77.053	78.665
3.25	3.33	76.95	76.956	78.601
3.7	3.53	76.93	76.916	78.591
3.8	3.93	77.05	77.046	78.588
3.85	5.51 / 6.87	77.11 / 77.15	77.046	78.587
7.2		77.20	77.18	78.509

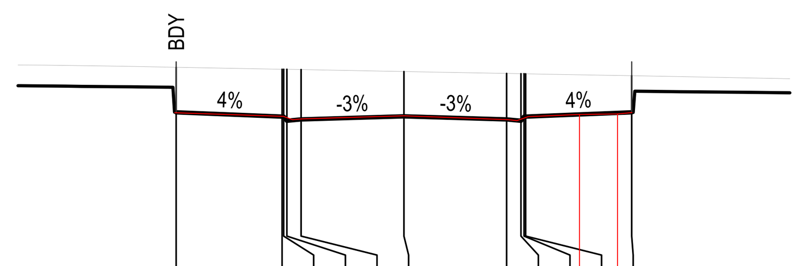
CH 150



DATUM R.L. 70

OFFSET	W.A.E. OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-7.7		76.41	76.371	77.104
-7.2		76.42	76.351	77.098
-3.85	3.83	76.22	76.217	77.058
-3.8			76.217	77.057
-3.7	3.46	76.12	76.087	77.056
-3.25	3.21	76.14	76.127	77.05
0		76.23	76.225	77.013
3.25	3.25	76.12	76.127	76.982
3.7	3.51	76.10	76.087	76.979
3.8	3.86	76.20	76.217	76.979
3.85	5.43 / 6.59	76.27 / 76.30	76.217	76.978
7.2	7.18	76.35	76.351	76.961
7.7	7.73	76.35	76.371	76.959

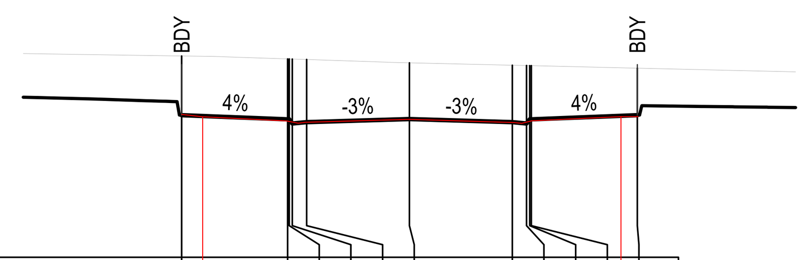
CH 120



DATUM R.L. 72

OFFSET	W.A.E. OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-7.2		76.91	76.919	78.347
-3.85	3.81	76.79	76.785	78.284
-3.8			76.785	78.283
-3.7	3.52	76.69	76.655	78.281
-3.25	3.21	76.71	76.695	78.273
0		76.81	76.792	78.212
3.25	3.30	76.69	76.695	78.151
3.7	3.57	76.66	76.655	78.143
3.8	3.93	76.78	76.785	78.141
3.85	5.55 / 6.75	76.85 / 76.87	76.785	78.14
7.2		76.91	76.919	78.077

CH 140.552



DATUM R.L. 73

OFFSET	W.A.E. OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-7.2		77.52	77.496	79.367
	6.53	77.44		
-3.85	3.88	77.31	77.362	79.274
-3.8			77.362	79.272
-3.7	3.51	77.24	77.232	79.269
-3.25	3.29	77.27	77.272	79.254
0		77.36	77.369	79.15
3.25	3.32	77.26	77.272	79.074
3.7	3.55	77.24	77.232	79.063
3.8	3.86	77.32	77.362	79.061
3.85	6.68	77.45	77.362	79.06
7.2		77.45	77.496	78.981

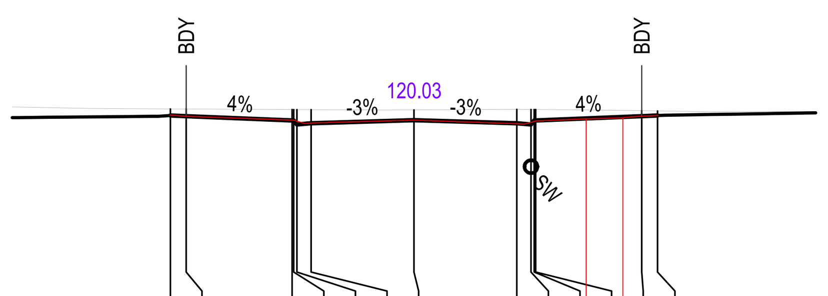
CH 161.379

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

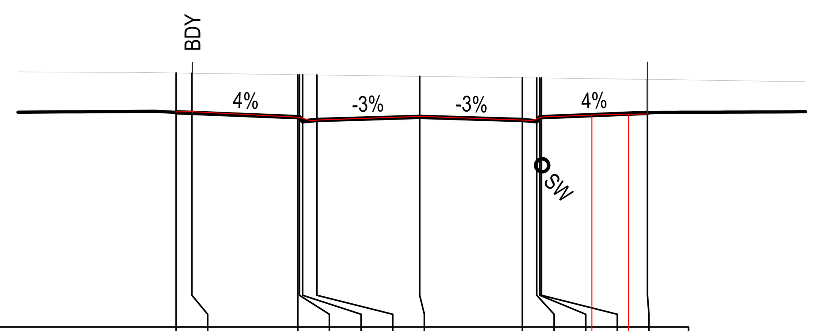
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



DATUM R.L. 70

OFFSET	W.A.E. OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-7.7		75.97	75.957	76.168
-7.2		75.93	75.937	76.165
-3.85	3.82	75.81	75.803	76.147
-3.8			75.803	76.147
-3.7	3.43	75.71	75.673	76.146
-3.25	3.19	75.73	75.713	76.144
0		75.81	75.81	76.137
3.25	3.27	75.70	75.713	76.152
3.7	3.49	75.69	75.673	76.149
3.8	3.87	75.79	75.803	76.148
3.85	5.44 / 6.60	75.85 / 75.89	75.803	76.148
7.2		75.92	75.937	76.111
7.7		75.96	75.957	76.104

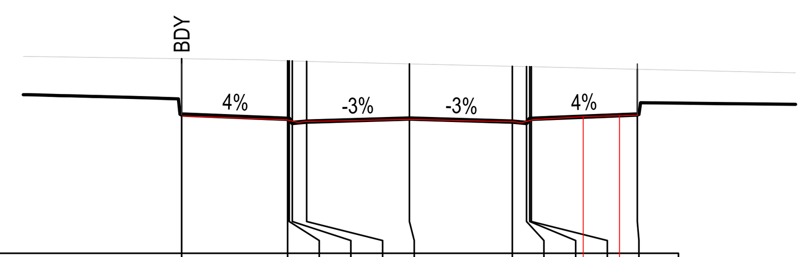
CH 105



DATUM R.L. 70

OFFSET	W.A.E. OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-7.7		76.80	76.785	78.028
-7.2		76.81	76.765	78.02
-3.85	3.80	76.63	76.631	77.971
-3.8			76.631	77.971
-3.7	3.44	76.52	76.501	77.969
-3.25	3.19	76.54	76.541	77.963
0		76.66	76.639	77.921
3.25	3.28	76.54	76.541	77.878
3.7	3.54	76.52	76.501	77.872
3.8	3.87	76.63	76.631	77.871
3.85	5.44 / 6.60	76.70 / 76.72	76.631	77.87
7.2		76.73	76.765	77.826

CH 135



DATUM R.L. 73

OFFSET	W.A.E. OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-7.2		77.33	77.382	79.149
-3.85	3.89	77.22	77.248	79.083
-3.8			77.248	79.082
-3.7	3.52	77.13	77.118	79.078
-3.25	3.29	77.16	77.158	79.063
0		77.23	77.256	78.985
3.25	3.31	77.15	77.158	78.909
3.7	3.55	77.13	77.118	78.898
3.8	3.91	77.22	77.248	78.896
3.85	5.49 / 6.04	77.32 / 77.34	77.248	78.894
7.2		77.36	77.382	78.816

CH 157.329

ROAD 26

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

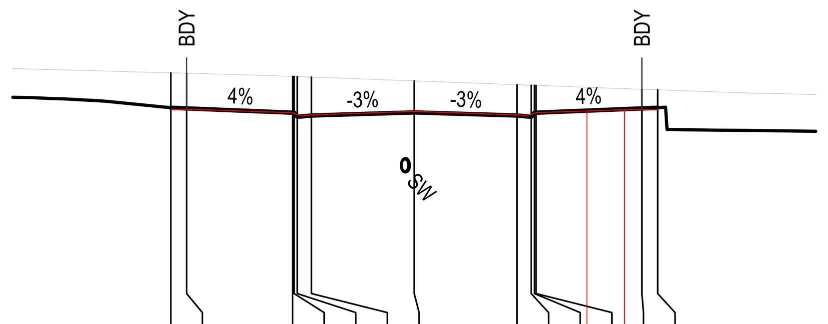
Project:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title:
ROAD CROSS SECTIONS
SHEET 14

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	363	B

LEGEND	
EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

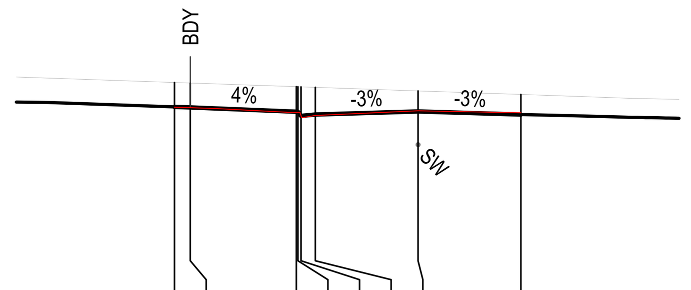
WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



DATUM R.L. 72

W.A.E.	78.83	78.83	78.73	78.62		78.65	78.77	78.66	78.63	78.73	78.78 78.83	78.84	78.82
DESIGN LEVEL	78.883	78.863	78.729	78.729	78.599	78.639	78.737	78.639	78.599	78.729	78.729	78.863	78.883
EXISTING LEVEL	79.991	79.977	79.876	79.874	79.87	79.854	79.734	79.615	79.598	79.594	79.593	79.47	79.452
OFFSET	-7.699	-7.199	-3.849 3.86	-3.799 3.54	-3.699	-3.249 3.29	0	3.251 3.32	3.701 3.53	3.801 3.87	3.851 5.46 6.65	7.201	7.701

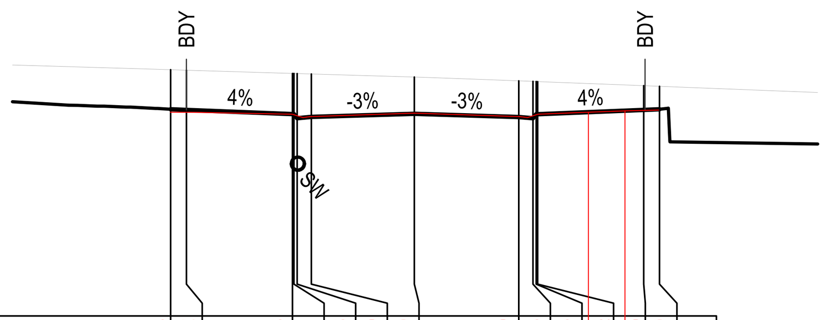
CH 836.148



DATUM R.L. 72

W.A.E.	77.84	77.80	77.68	77.68	77.51	77.59	77.73	77.67
DESIGN LEVEL	77.856	77.836	77.702	77.702	77.572	77.612	77.709	77.612
EXISTING LEVEL	78.625	78.608	78.492	78.49	78.487	78.471	78.359	78.247
OFFSET	-7.699	-7.199	-3.849 4.04	-3.799 3.73	-3.699 3.68	-3.249 3.25	0	3.251

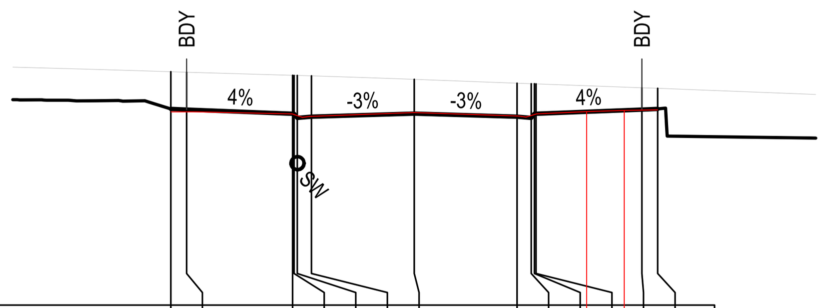
CH 855



DATUM R.L. 73

W.A.E.	79.43	79.42	79.36		79.26	79.29	79.40	79.29	79.26	79.36	79.43 79.47	79.49	79.50
DESIGN LEVEL	79.522	79.502	79.368	79.368	79.238	79.278	79.376	79.277	79.237	79.367	79.367	79.501	79.521
EXISTING LEVEL	80.769	80.754	80.653	80.652	80.649	80.635	80.538	80.417	80.401	80.397	80.395	80.266	80.247
OFFSET	-7.702	-7.202	-3.852 3.86	-3.802	-3.702 3.52	-3.252 3.29	0	3.302 3.34	3.752 3.58	3.852 3.91	3.902 5.50 6.66	7.252	7.752

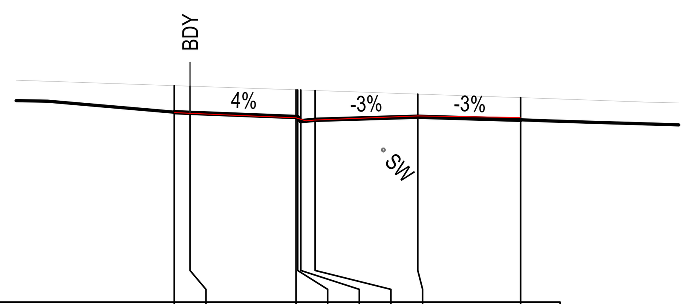
CH 825.494



DATUM R.L. 73

W.A.E.	79.11	79.11	79.05	78.94		78.97	79.09	78.98	78.95	79.05	79.12 79.16	79.17	79.17
DESIGN LEVEL	79.203	79.183	79.049	79.049	78.919	78.959	79.056	78.959	78.919	79.049	79.049	79.183	79.203
EXISTING LEVEL	80.38	80.365	80.265	80.264	80.261	80.247	80.137	80.018	80.001	79.997	79.996	79.872	79.854
OFFSET	-7.699	-7.199	-3.849 3.86	-3.799 3.53	-3.699	-3.249 3.30	0	3.251 3.30	3.701 3.54	3.801 3.87	3.851 5.45 6.64	7.201	7.701 7.70

CH 830.819



DATUM R.L. 72

W.A.E.	77.99	77.97	77.83	77.73		77.75	77.88	77.83
DESIGN LEVEL	78.003	77.983	77.849	77.849	77.719	77.759	77.856	77.759
EXISTING LEVEL	78.841	78.824	78.708	78.706	78.703	78.687	78.575	78.462
OFFSET	-7.699	-7.199	-3.849 3.85	-3.799 3.54	-3.699	-3.249 3.28	0	3.251 3.23

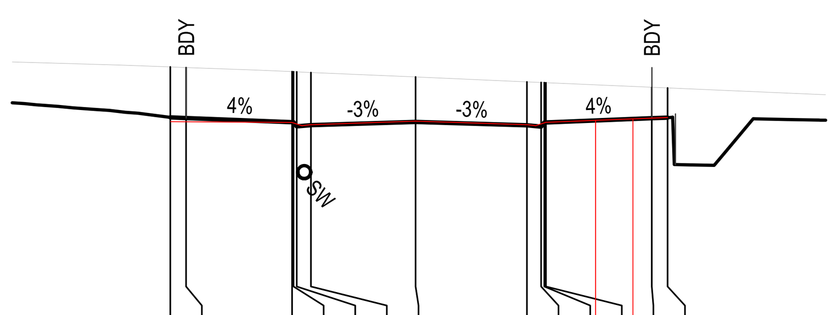
CH 852.054

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

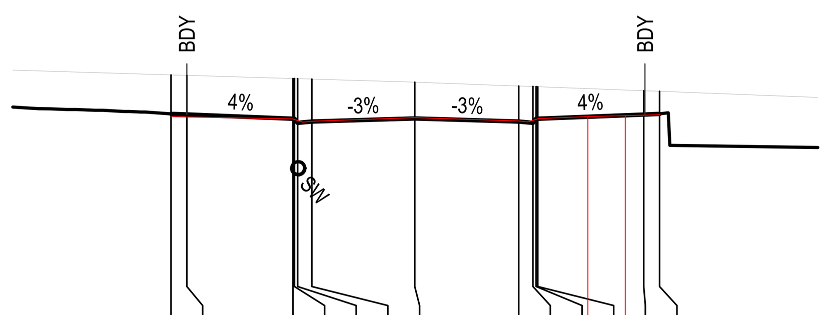
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



DATUM R.L. 74

W.A.E.	80.21	80.21	80.19		80.08	80.11	80.23	80.11	80.09	80.19	80.25 80.30	80.30	80.30
DESIGN LEVEL	80.348	80.328	80.194	80.194	80.064	80.104	80.203	80.097	80.057	80.187	80.187	80.321	80.341
EXISTING LEVEL	81.943	81.924	81.794	81.792	81.788	81.768	81.625	81.472	81.452	81.448	81.446	81.3	81.279
OFFSET	-7.757 7.75	-7.257	-3.907 3.91	-3.857	-3.757 3.59	-3.307 3.34	0	3.525 3.56	3.975 3.80	4.075 4.12	4.125 5.70 6.88	7.475	7.975

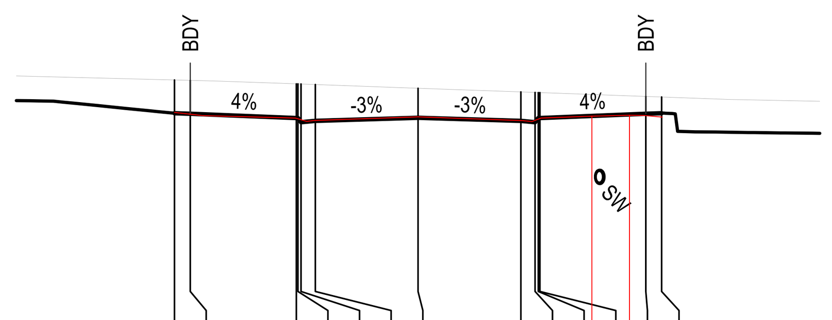
CH 811.71



DATUM R.L. 73

W.A.E.	79.37	79.36	79.30	79.20		79.22	79.34	79.23	79.20	79.31	79.37 79.40	79.42	79.43
DESIGN LEVEL	79.46	79.44	79.306	79.306	79.176	79.216	79.314	79.215	79.175	79.305	79.305	79.439	79.459
EXISTING LEVEL	80.692	80.677	80.577	80.575	80.572	80.559	80.461	80.34	80.324	80.32	80.318	80.192	80.172
OFFSET	-7.699	-7.199	-3.849 3.87	-3.799 3.52	-3.699	-3.249 3.28	0	3.286 3.31	3.736 3.57	3.836 3.92	3.886 5.47 6.65	7.236	7.736

CH 826.534



DATUM R.L. 72

W.A.E.	78.65	78.55	78.47	78.37		78.40	78.51	78.40	78.37	78.47	78.53 78.56	78.56	78.50
DESIGN LEVEL	78.629	78.609	78.475	78.475	78.345	78.385	78.482	78.385	78.345	78.475	78.475	78.609	78.629
EXISTING LEVEL	79.676	79.663	79.555	79.553	79.549	79.533	79.416	79.299	79.283	79.28	79.278	79.157	79.139
OFFSET	-7.699	-7.199	-3.849 3.88	-3.799 3.52	-3.699	-3.249 3.28	0	3.251 3.30	3.701 3.60	3.801 3.89	3.851 5.49 6.69	7.201	7.701

CH 840.476

ROAD 30

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

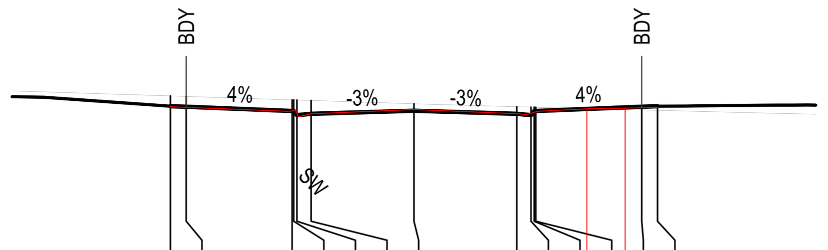
SUSTAINABLE CERTIFICATION ISO 9001 ISO 45001 ISO 14001 JAS-ANZ WWW.JAS-ANZ.ORG/REGISTER

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

Project:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title:
ROAD CROSS SECTIONS
SHEET 15

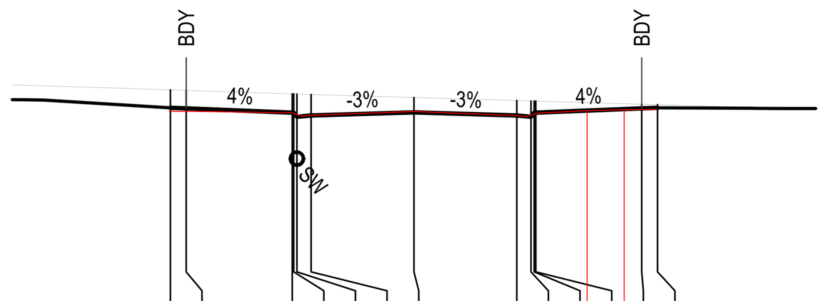
Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	364	B



DATUM R.L. 72

OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-7.7	76.63	76.648	76.971
-7.2	76.61	76.628	76.955
-3.85 4.00	76.49	76.494	76.846
-3.8 3.73	76.50	76.494	76.845
-3.7 3.65	76.31	76.364	76.842
-3.25 3.25	76.41	76.404	76.827
0	76.54	76.502	76.722
3.251 3.32	76.41	76.404	76.63
3.701 3.56	76.38	76.364	76.618
3.801 3.91	76.48	76.494	76.616
3.851 5.47	76.56	76.494	76.615
6.68	76.58		
7.201	76.60	76.628	76.529
7.701	76.61	76.648	76.516

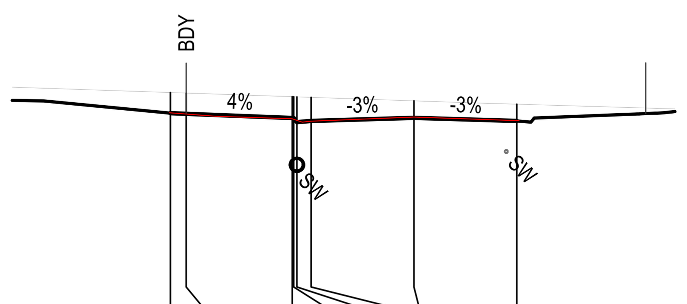
CH 885



DATUM R.L. 71

OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-7.699	77.07	77.186	77.753
-7.199	77.07	77.166	77.736
-3.849 3.87	77.03	77.032	77.626
-3.799 3.52	76.92	77.032	77.624
-3.699		76.902	77.621
-3.249 3.27	76.95	76.942	77.608
0	77.07	77.04	77.512
3.251 3.31	76.94	76.942	77.416
3.701 3.56	76.91	76.902	77.403
3.801 3.89	77.02	77.032	77.4
3.851 5.47	77.10	77.032	77.398
6.64	77.13		
7.201	77.13	77.166	77.299
7.701	77.14	77.186	77.284

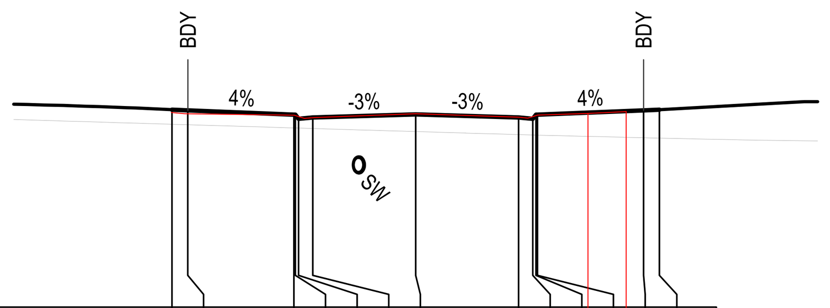
CH 870



DATUM R.L. 71

OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-7.699	77.50	77.487	78.138
-7.199 6.27	77.39	77.467	78.121
-3.849 3.85	77.31	77.333	78.007
-3.799 3.53	77.20	77.333	78.005
-3.699		77.203	78.002
-3.249 3.27	77.23	77.243	77.987
0	77.37	77.341	77.876
3.251	77.25	77.243	77.773

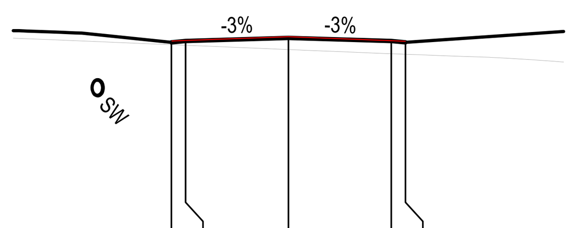
CH 862.889



DATUM R.L. 70

OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-7.7	76.15	76.237	75.778
-7.2	76.11	76.217	75.763
-3.85 3.83	76.07	76.083	75.663
-3.8		76.083	75.661
-3.7 3.52	75.96	75.953	75.658
-3.25 3.24	75.99	75.993	75.645
0	76.11	76.09	75.548
3.25 3.27	76.00	75.993	75.452
3.7 3.54	75.97	75.953	75.44
3.8 3.86	76.07	76.083	75.437
3.85 5.44	76.12	76.083	75.436
6.65	76.18		
7.2		76.217	75.352
7.7		76.237	75.339

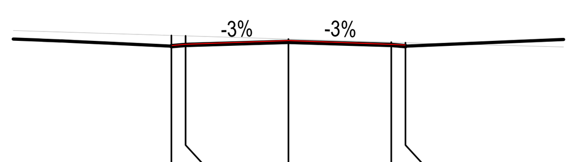
CH 900



DATUM R.L. 70

OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-3.7 3.68	76.09	76.049	75.974
-3.25 3.27	76.11	76.089	75.955
0	76.22	76.187	75.821
3.25 3.29	76.10	76.089	75.689
3.7 3.70	76.08	76.049	75.672

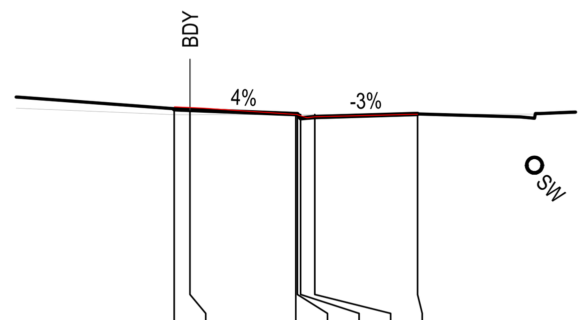
CH 896.148



DATUM R.L. 72

OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-3.7	76.16	76.137	76.479
-3.25	76.20	76.177	76.465
0	76.32	76.275	76.364
3.25	76.19	76.177	76.263
3.7	76.17	76.137	76.249

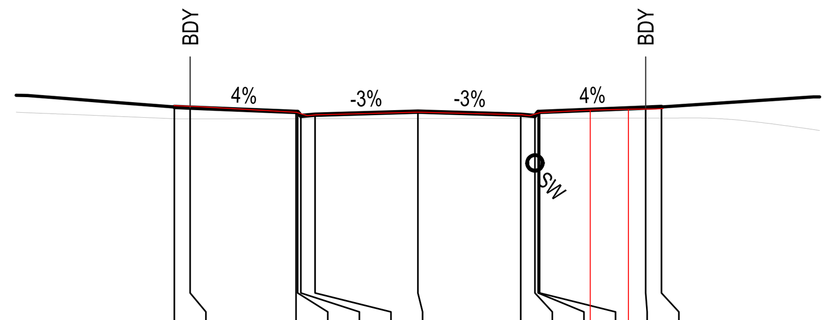
CH 892.767



DATUM R.L. 69

OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-7.7 7.69	75.92	75.845	75.675
-7.2 6.75	75.88	75.825	75.673
-3.85 3.82	75.68	75.691	75.679
-3.8		75.691	75.68
-3.7 3.49	75.58	75.561	75.68
-3.25 3.24	75.61	75.601	75.68
0	75.69	75.698	75.686

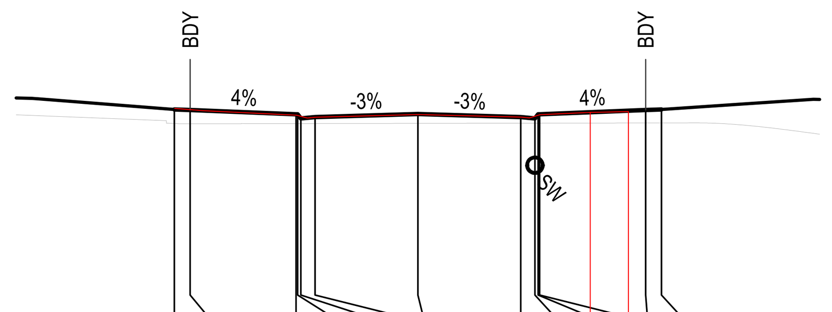
CH 915.827



DATUM R.L. 69

OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-7.7	75.91	75.868	75.499
-7.2	75.87	75.848	75.493
-3.85 3.83	75.70	75.714	75.499
-3.8		75.714	75.499
-3.7 3.50	75.60	75.584	75.499
-3.25 3.23	75.62	75.624	75.5
0	75.71	75.722	75.506
3.25 3.28	75.62	75.624	75.512
3.7 3.54	75.60	75.584	75.513
3.8 3.87	75.69	75.714	75.513
3.85 5.45	75.77	75.714	75.513
6.66	75.80		
7.2	75.81	75.848	75.519
7.7	75.82	75.868	75.52

CH 914.746



DATUM R.L. 69

OFFSET	W.A.E.	DESIGN LEVEL	EXISTING LEVEL
-7.7	75.91	75.879	75.431
-7.2	75.84	75.859	75.423
-3.85 3.83	75.69	75.725	75.429
-3.8 3.49	75.61	75.725	75.429
-3.7		75.595	75.43
-3.25 3.24	75.63	75.635	75.43
0	75.72	75.732	75.436
3.25 3.26	75.63	75.635	75.442
3.7 3.53	75.61	75.595	75.443
3.8 3.86	75.71	75.725	75.443
3.85 5.45	75.78	75.725	75.443
6.66	75.81		
7.2		75.859	75.449
7.7		75.879	75.45

CH 914.327

ROAD 30

LEGEND

EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
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
25/02/2025
SUBDIVISION WORKS CERTIFICATE
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

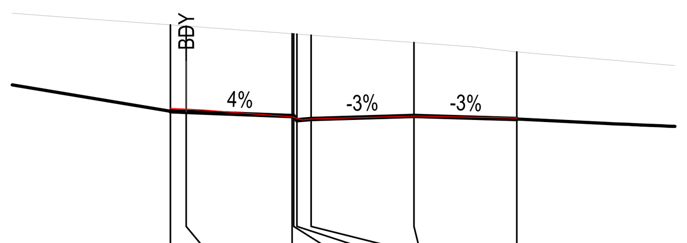
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au

Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ROAD CROSS SECTIONS SHEET 16

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	365	B

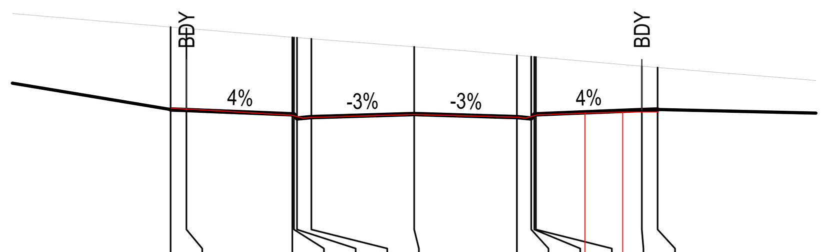
LEGEND	
EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW



DATUM R.L. 74

W.A.E.	78.73	78.68	78.46		78.37	78.40	78.49	78.43
DESIGN LEVEL	78.642	78.622	78.488	78.488	78.358	78.398	78.495	78.398
EXISTING LEVEL	81.372	81.336	81.092	81.089	81.081	81.049	80.812	80.518
OFFSET	-7.7	-7.2	-3.85 3.86	-3.8	-3.7 3.52	-3.25 3.27	0	3.25 3.27

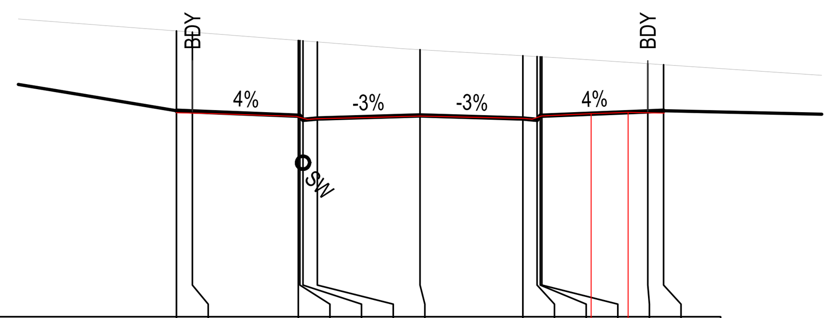
CH 315



DATUM R.L. 74

W.A.E.	78.85	78.79	78.62		78.53	78.55	78.65	78.56	78.53	78.64	78.69 78.72	78.72	78.72
DESIGN LEVEL	78.805	78.785	78.651	78.651	78.521	78.561	78.658	78.561	78.521	78.651	78.651	78.785	78.805
EXISTING LEVEL	81.416	81.373	81.09	81.086	81.079	81.043	80.79	80.518	80.479	80.47	80.466	80.175	80.134
OFFSET	-7.7	-7.2	-3.85 3.88	-3.8	-3.7 3.52	-3.25 3.27	0	3.25 3.28	3.7 3.52	3.8 3.89	3.85 5.40 6.59	7.2	7.7

CH 334.77

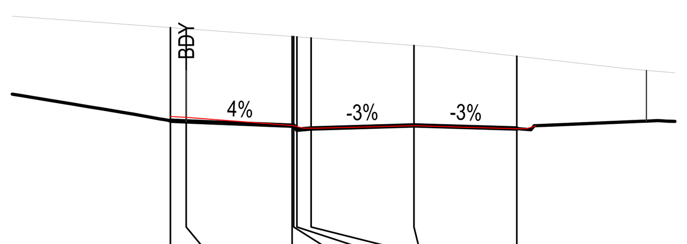


DATUM R.L. 72

W.A.E.	78.44	78.42	78.32		78.23	78.25	78.33	78.26	78.24	78.34	78.41 78.45	78.44	78.43
DESIGN LEVEL	78.501	78.481	78.347	78.347	78.217	78.257	78.354	78.257	78.217	78.347	78.347	78.481	78.501
EXISTING LEVEL	81.021	80.984	80.721	80.717	80.709	80.674	80.428	80.239	80.212	80.206	80.204	79.988	79.954
OFFSET	-7.7	-7.2	-3.85 3.92	-3.8	-3.7 3.55	-3.25 3.28	0	3.25 3.27	3.7 3.54	3.8 3.85	3.85 5.41 6.58	7.2	7.7

CH 361.77

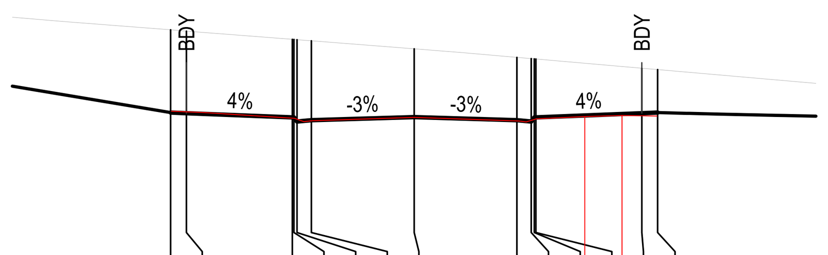
WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



DATUM R.L. 74

W.A.E.	78.49	78.46	78.20		78.12	78.12	78.19	78.10
DESIGN LEVEL	78.351	78.331	78.197	78.197	78.067	78.107	78.204	78.107
EXISTING LEVEL	81.289	81.253	81.009	81.005	80.998	80.965	80.729	80.39
OFFSET	-7.7	-7.2	-3.85 3.83	-3.8	-3.7 3.50	-3.25 3.10	0	3.25

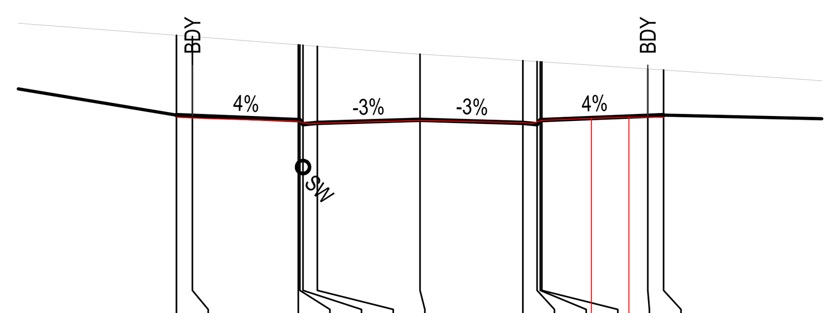
CH 301.77



DATUM R.L. 74

W.A.E.	78.84	78.80	78.61		78.51	78.54	78.64	78.53	78.50	78.60	78.67 78.70	78.67	78.68
DESIGN LEVEL	78.795	78.775	78.641	78.641	78.511	78.551	78.649	78.551	78.511	78.641	78.641	78.775	78.795
EXISTING LEVEL	81.409	81.37	81.109	81.105	81.097	81.062	80.808	80.539	80.5	80.491	80.487	80.195	80.151
OFFSET	-7.7	-7.2	-3.85 3.79	-3.8	-3.7 3.48	-3.25 3.23	0	3.25 3.31	3.7 3.54	3.8 3.87	3.85 5.40 6.57	7.2	7.7

CH 330



DATUM R.L. 72

W.A.E.	78.47	78.43	78.35		78.26	78.28	78.38	78.30	78.27	78.37	78.44 78.48	78.47	78.47
DESIGN LEVEL	78.539	78.519	78.385	78.385	78.255	78.295	78.393	78.295	78.255	78.385	78.385	78.519	78.539
EXISTING LEVEL	81.066	81.028	80.764	80.76	80.752	80.717	80.468	80.265	80.235	80.228	80.225	80	79.967
OFFSET	-7.7	-7.2	-3.85 3.91	-3.8	-3.7 3.52	-3.25 3.26	0	3.25 3.30	3.7 3.53	3.8 3.86	3.85 5.42 6.60	7.2	7.7

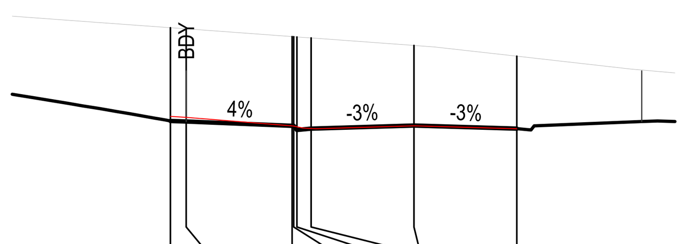
CH 360

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

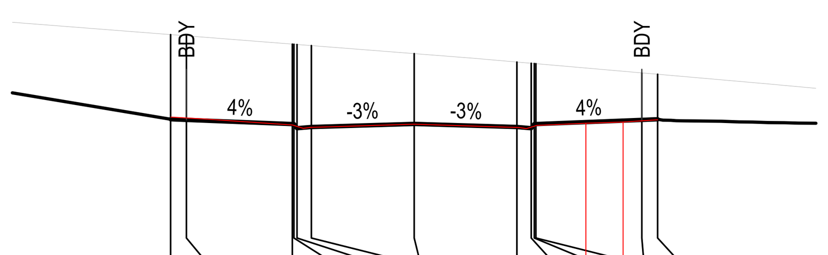
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



DATUM R.L. 74

W.A.E.	78.49	78.46	78.19	78.12		78.10	78.19	78.10
DESIGN LEVEL	78.347	78.327	78.193	78.193	78.063	78.103	78.2	78.103
EXISTING LEVEL	81.288	81.252	81.008	81.004	80.997	80.964	80.728	80.388
OFFSET	-7.7	-7.2	-3.85 3.83	-3.8 3.52	-3.7	-3.25 3.10	0	3.25

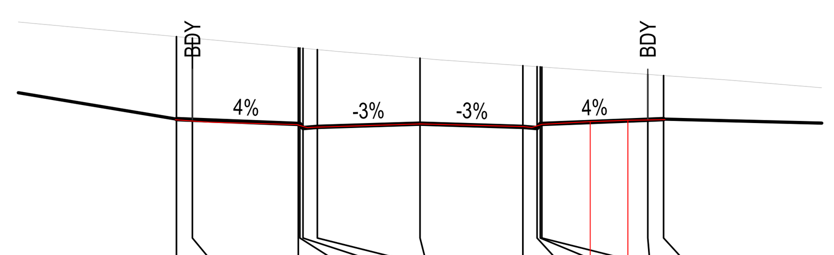
CH 301.62



DATUM R.L. 74

W.A.E.	78.82	78.76	78.57		78.47	78.50	78.60	78.49	78.46	78.56	78.63 78.67	78.71	78.74
DESIGN LEVEL	78.756	78.736	78.602	78.602	78.472	78.512	78.61	78.512	78.472	78.602	78.602	78.736	78.756
EXISTING LEVEL	81.433	81.394	81.132	81.128	81.121	81.085	80.832	80.566	80.527	80.518	80.514	80.221	80.178
OFFSET	-7.7	-7.2	-3.85 3.85	-3.8	-3.7 3.50	-3.25 3.28	0	3.25 3.33	3.7 3.55	3.8 3.88	3.85 5.43 6.61	7.2	7.7

CH 324.02



DATUM R.L. 74

W.A.E.	78.74	78.66	78.59		78.49	78.51	78.61	78.52	78.49	78.59	78.68 78.72	78.73	78.74
DESIGN LEVEL	78.761	78.741	78.607	78.607	78.477	78.517	78.614	78.517	78.477	78.607	78.607	78.741	78.761
EXISTING LEVEL	81.369	81.323	81.014	81.01	81.001	80.959	80.685	80.45	80.418	80.411	80.408	80.173	80.138
OFFSET	-7.7	-7.2	-3.85 3.89	-3.8	-3.7 3.56	-3.25 3.26	0	3.25 3.29	3.7 3.52	3.8 3.86	3.85 5.38 6.57	7.2	7.7

CH 345

ROAD 34

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ROAD CROSS SECTIONS SHEET 17

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	366	B

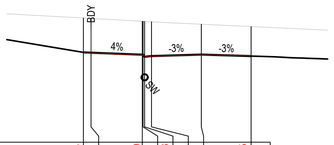
LEGEND

EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

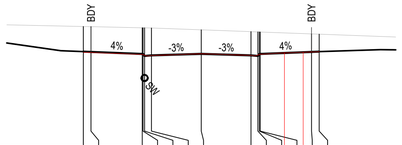
REGISTERED SURVEYOR ID: 8890
ORION GROUP



DATUM R.L. 72

W.A.E.		77.84	77.81		77.69		77.58	77.61	77.71		77.65
DESIGN LEVEL	77.866	77.846		77.712	77.712		77.582	77.622	77.719		77.622
EXISTING LEVEL	80.108	80.08		79.895	79.892		79.887	79.862	79.703		79.55
OFFSET	-7.7	-7.2		-3.85	-3.8	3.87	-3.7	-3.25	0		3.25

CH 390



DATUM R.L. 71

W.A.E.		77.14	77.12		77.01		76.91	76.93	77.05		76.94	76.92	77.02	77.11	77.13	77.19	
DESIGN LEVEL	77.191	77.171		77.037	77.037		76.907	76.947	77.044		76.947	76.907	77.037	77.037	77.171	77.191	
EXISTING LEVEL	78.831	78.82		78.746	78.745		78.743	78.733	78.613		78.493	78.477	78.473	78.471	78.347	78.329	
OFFSET	-7.7	-7.2		-3.85	-3.8	3.88	-3.7	-3.25	0		3.25	3.7	3.8	3.85	7.2	7.7	

CH 420

DATUM R.L. 72

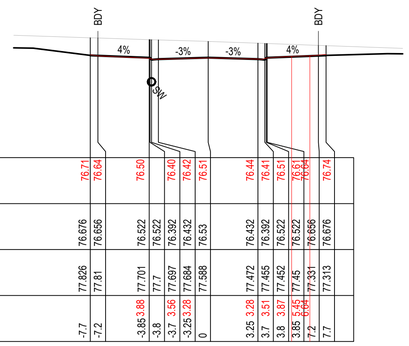
W.A.E.		78.04	78.02		77.91	77.91	77.74	77.83	77.96		77.83	77.81	77.91	77.97	78.08	78.07					
DESIGN LEVEL	78.097	78.077		77.943	77.943	77.813	77.853	77.951		77.853	77.813	77.943	78.077	78.097							
EXISTING LEVEL	80.473	80.444		80.248	80.245	80.239	80.213	80.029		79.854	79.83	79.825	79.822	79.641	79.615						
OFFSET	-7.7	-7.2		-3.85	-3.8	4.06	-3.7	-3.25	0		3.25	3.7	3.8	3.85	7.2	7.7					

CH 379.699

DATUM R.L. 71

W.A.E.		77.48	77.46		77.35		77.24	77.27	77.40		77.29	77.27	77.37	77.44	77.53	77.48					
DESIGN LEVEL	77.528	77.508		77.374	77.374		77.244	77.284	77.382		77.284	77.244	77.374	77.374	77.506	77.528					
EXISTING LEVEL	79.491	79.473		79.352	79.35	79.346	79.33	79.208		79.085	79.068	79.065	79.063	78.937	78.918						
OFFSET	-7.7	-7.2		-3.85	-3.8	3.90	-3.7	-3.25	0		3.25	3.7	3.8	3.85	7.2	7.7					

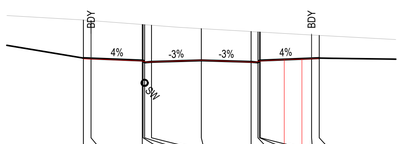
CH 405



DATUM R.L. 70

W.A.E.		76.71	76.64		76.50		76.40	76.42	76.51		76.44	76.41	76.51	76.61	76.74	76.74					
DESIGN LEVEL	76.676	76.656		76.522	76.522		76.392	76.432	76.53		76.432	76.392	76.522	76.656	76.676						
EXISTING LEVEL	77.826	77.81		77.701	77.7		77.697	77.684	77.588		77.472	77.455	77.452	77.45	77.331	77.313					
OFFSET	-7.7	-7.2		-3.85	-3.8	3.88	-3.7	-3.25	0		3.25	3.7	3.8	3.85	7.2	7.7					

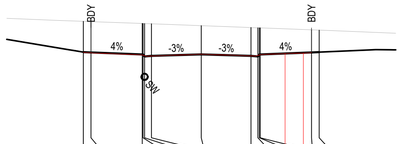
CH 442.853



DATUM R.L. 72

W.A.E.		78.15	78.13		78.02		77.93	77.95	78.06		77.94	77.93	78.02	78.11	78.15	78.17	
DESIGN LEVEL	78.203	78.183		78.049	78.049		77.919	77.959	78.057		77.959	77.919	78.049	78.049	78.183	78.203	
EXISTING LEVEL	80.689	80.651		80.397	80.394	80.386	80.352	80.128		79.938	79.912	79.906	79.903	79.711	79.684		
OFFSET	-7.7	-7.2		-3.85	-3.8	3.91	-3.7	-3.25	0		3.25	3.7	3.8	3.85	7.2	7.7	

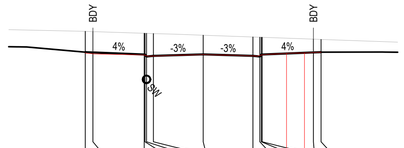
CH 375



DATUM R.L. 71

W.A.E.		77.57	77.53		77.41		77.31	77.34	77.45		77.35	77.33	77.43	77.50	77.58	77.56					
DESIGN LEVEL	77.593	77.573		77.439	77.439		77.309	77.349	77.447		77.349	77.309	77.439	77.439	77.573	77.593					
EXISTING LEVEL	79.603	79.585		79.464	79.462		79.458	79.442	79.32		79.197	79.18	79.177	79.175	79.049	79.03					
OFFSET	-7.7	-7.2		-3.85	-3.8	3.88	-3.7	-3.25	0		3.25	3.7	3.8	3.85	7.2	7.7					

CH 402.099



DATUM R.L. 70

W.A.E.		76.80	76.73		76.67		76.58	76.60	76.70		76.61	76.59	76.69	76.72	76.83	76.84					
DESIGN LEVEL	76.853	76.833		76.699	76.699		76.569	76.609	76.707		76.609	76.569	76.699	76.699	76.833	76.853					
EXISTING LEVEL	78.209	78.193		78.082	78.081	78.078	78.065	77.968		77.842	77.826	77.823	77.821	77.701	77.684						
OFFSET	-7.7	-7.2		-3.85	-3.8	3.87	-3.7	-3.25	0		3.25	3.7	3.8	3.85	7.2	7.7					

CH 435

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ROAD 34

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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)

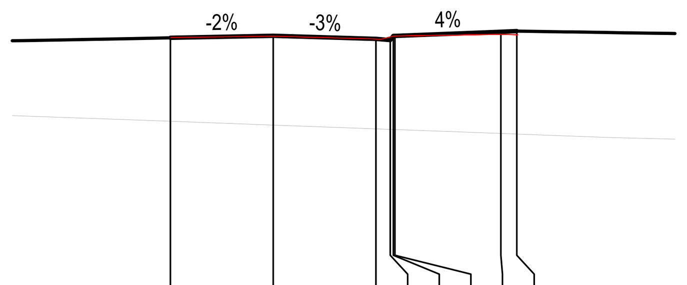
For: mirvac

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

Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ROAD CROSS SECTIONS SHEET 18

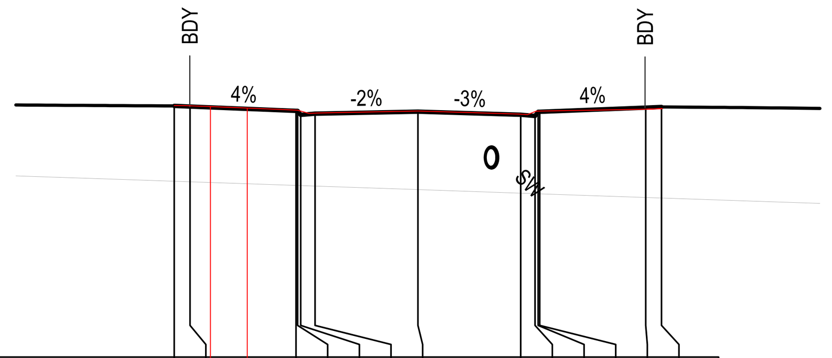
Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	367	B



DATUM R.L. 66

W.A.E.	73.89	73.93	73.84	73.83		73.93	73.98	73.97
DESIGN LEVEL	73.873	73.938	73.841	73.801	73.931	73.931	74.065	74.085
EXISTING LEVEL	71.234	71.114	70.994	70.978	70.974	70.972	70.849	70.83
OFFSET	-3.25 / 3.24	0	3.25 / 3.12	3.7 / 3.40	3.8	3.85 / 3.81	7.2	7.7

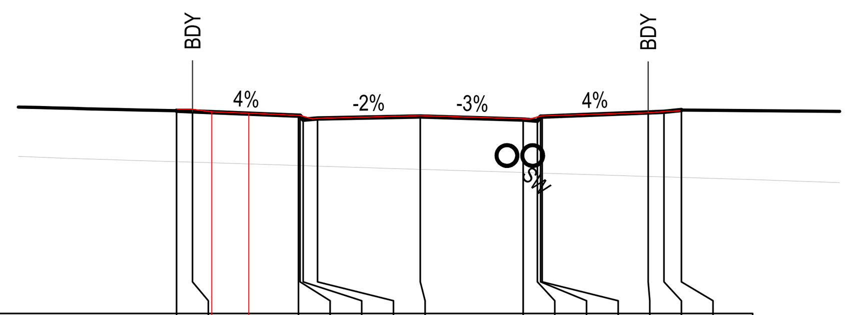
CH 227.23



DATUM R.L. 66

W.A.E.	73.94	73.94	73.91 / 73.86	73.80		73.69	73.71	73.77	73.67	73.66		73.76	73.83	73.84
DESIGN LEVEL	73.929	73.909		73.775	73.775	73.645	73.685	73.75	73.652	73.612	73.742	73.742	73.876	73.896
EXISTING LEVEL	71.553	71.535		71.42	71.418	71.415	71.399	71.287	71.175	71.16	71.156	71.155	71.039	71.022
OFFSET	-7.7	-7.2	6.55 / 5.39	-3.85 / 3.80	-3.8	-3.7 / 3.44	-3.25 / 3.18	0	3.25 / 3.20	3.7 / 3.46	3.8	3.85 / 3.74	7.2	7.7

CH 245.157



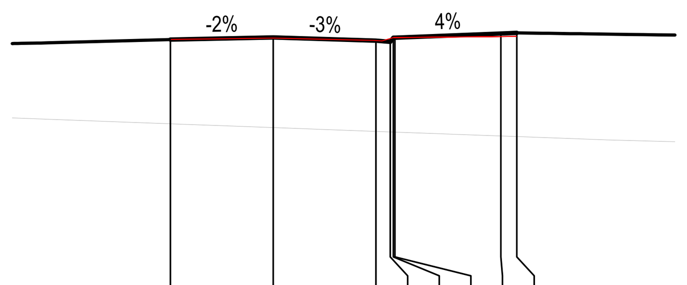
DATUM R.L. 67

W.A.E.	73.46	73.45	73.38 / 73.33	73.26		73.15	73.17	73.25	73.16	73.14		73.25	73.35	73.39	73.41
DESIGN LEVEL	73.407	73.387		73.253	73.253	73.123	73.163	73.228	73.131	73.091	73.221	73.221	73.355	73.375	73.43
EXISTING LEVEL	71.797	71.781		71.677	71.675	71.672	71.658	71.557	71.455	71.441	71.438	71.437	71.332	71.317	71.299
OFFSET	-7.7	-7.2	6.59 / 5.42	-3.85 / 3.80	-3.8	-3.7 / 3.42	-3.25 / 3.20	0	3.25 / 3.21	3.7 / 3.46	3.8	3.85 / 3.82	7.2	7.7	8.25

CH 270

LEGEND	
EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

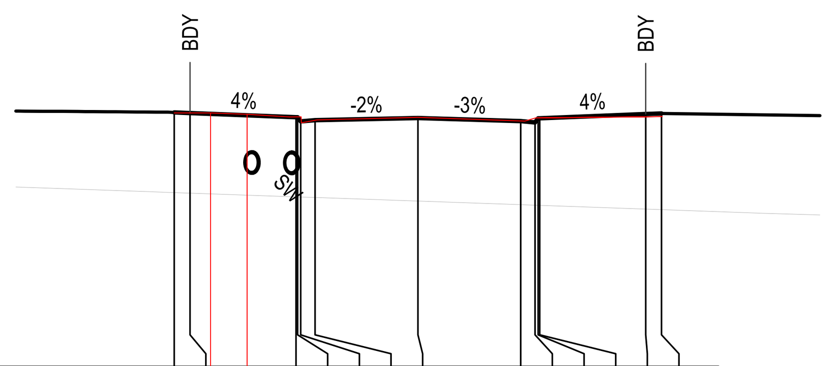
WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
[signature]
REGISTERED SURVEYOR ID: 8890
ORION GROUP



DATUM R.L. 66

W.A.E.	73.87	73.92	73.84	73.83		73.94	73.96	73.97
DESIGN LEVEL	73.87	73.935	73.838	73.798	73.928	73.928	74.062	74.082
EXISTING LEVEL	71.207	71.087	70.967	70.95	70.947	70.945	70.821	70.803
OFFSET	-3.25 / 3.23	0	3.25 / 3.18	3.7 / 3.44	3.8	3.85 / 3.80	7.2	7.7

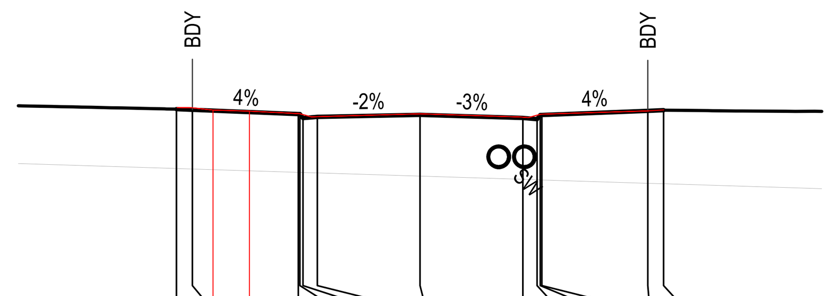
CH 225



DATUM R.L. 66

W.A.E.	74.01	74.01	74.01 / 73.97	73.89	73.89	73.70	73.79	73.87	73.76	73.76		73.86	73.89	73.90
DESIGN LEVEL	74.03	74.01		73.876	73.876	73.746	73.786	73.851	73.754	73.714	73.844	73.844	73.978	73.998
EXISTING LEVEL	71.496	71.478		71.361	71.359	71.356	71.34	71.226	71.112	71.096	71.092	71.091	70.973	70.956
OFFSET	-7.7	-7.2	6.55 / 5.39	-3.85 / 4.05	-3.8 / 3.69	-3.7 / 3.68	-3.25 / 3.19	0	3.25 / 3.16	3.7 / 3.38	3.8	3.85 / 3.72	7.2	7.7

CH 239.404



DATUM R.L. 67

W.A.E.	73.64	73.63	73.56 / 73.53	73.45		73.34	73.35	73.44	73.34	73.32		73.43	73.53	73.56
DESIGN LEVEL	73.588	73.568		73.434	73.434	73.304	73.344	73.409	73.312	73.272	73.402	73.402	73.536	73.556
EXISTING LEVEL	71.708	71.692		71.587	71.586	71.583	71.569	71.467	71.365	71.351	71.348	71.347	71.242	71.226
OFFSET	-7.7	-7.2	6.55 / 5.39	-3.85 / 3.81	-3.8	-3.7 / 3.43	-3.25 / 3.20	0	3.25 / 3.19	3.7 / 3.42	3.8	3.85 / 3.81	7.2	7.7

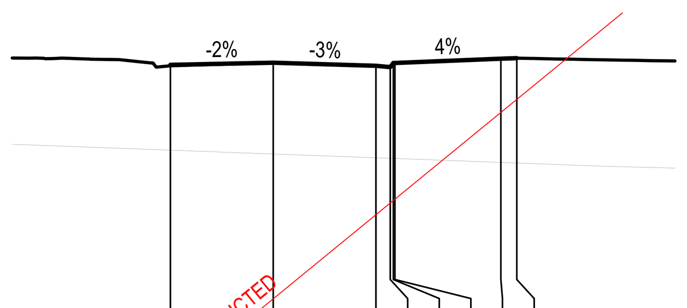
CH 261.383

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

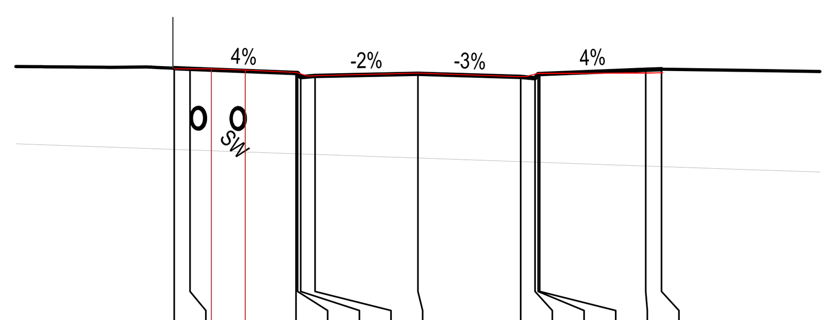


DATUM R.L. 66

NOT CONSTRUCTED

W.A.E.								
DESIGN LEVEL	73.789	73.854	73.756	73.716	73.846	73.846	73.98	74
EXISTING LEVEL	71.09	70.969	70.849	70.832	70.828	70.826	70.702	70.684
OFFSET	-3.25	0	3.25	3.7	3.8	3.85	7.2	7.7

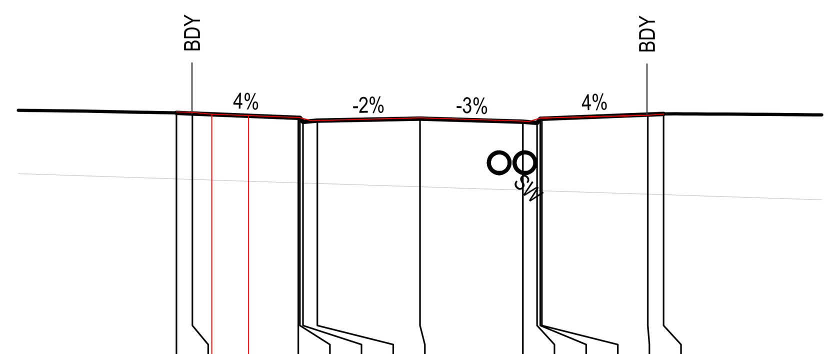
CH 215.228



DATUM R.L. 66

W.A.E.	74.03	74.03	74.03 / 73.99	73.91		73.80	73.81	73.89	73.78	73.78		73.88	73.90	73.90
DESIGN LEVEL	74.05	74.03		73.896	73.896	73.766	73.806	73.871	73.773	73.733	73.863	73.863	73.997	74.017
EXISTING LEVEL	71.483	71.466		71.347	71.345	71.342	71.326	71.212	71.098	71.082	71.079	71.077	70.959	70.942
OFFSET	-7.7	-7.2	6.53 / 5.46	-3.85 / 3.84	-3.8	-3.7 / 3.48	-3.25 / 3.21	0	3.25 / 3.19	3.7 / 3.40	3.8	3.85 / 3.76	7.2	7.7

CH 237.973



DATUM R.L. 66

W.A.E.	73.76	73.75	73.68 / 73.64	73.58		73.48	73.49	73.57	73.47	73.45		73.56	73.65	73.69
DESIGN LEVEL	73.722	73.702		73.568	73.568	73.438	73.478	73.543	73.446	73.406	73.536	73.536	73.67	73.69
EXISTING LEVEL	71.638	71.621		71.511	71.51	71.507	71.492	71.385	71.28	71.266	71.263	71.261	71.154	71.138
OFFSET	-7.7	-7.2	6.58 / 5.42	-3.85 / 3.83	-3.8	-3.7 / 3.42	-3.25 / 3.21	0	3.25 / 3.22	3.7 / 3.42	3.8	3.85 / 3.80	7.2	7.7

CH 255

ROAD 35

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

SUSTAINABLE CERTIFICATION ISO 9001 ISO 45001 ISO 14001
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:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title:
ROAD CROSS SECTIONS
SHEET 19

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	368	B

LEGEND	
EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

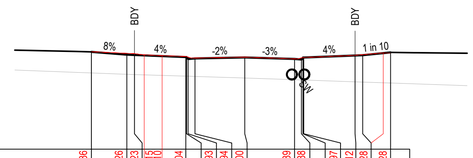
REGISTERED SURVEYOR ID: 8890
ORION GROUP

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



DATUM R.L. 67																							
W.A.E.	73.36		73.26	73.23	73.15	73.10	73.04	72.93	72.94	73.00		72.89	72.88	72.97	73.12	73.28	73.28						
DESIGN LEVEL	73.35		73.165	73.145			73.011	73.011	72.881	72.921	72.966	72.888	72.848	72.978	73.112	73.132	73.314						
EXISTING LEVEL	71.972		71.884	71.868			71.764	71.762	71.759	71.745	71.642	71.53	71.515	71.511	71.51	71.384	71.377	71.314					
OFFSET	-10.017		-7.7	-7.2	6.52	8.40	-3.85	-3.8	-3.7	-3.25	0	3.25	3.7	3.8	3.85	7.2	7.7	9.04	9.521				

CH 281.553

ROAD 35

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

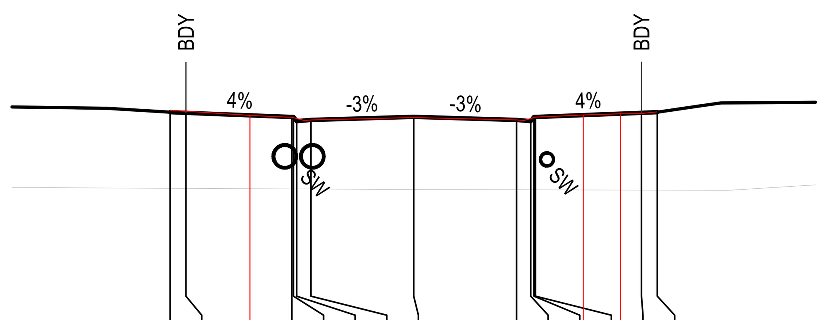
Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ROAD CROSS SECTIONS SHEET 20

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	369	B

LEGEND	
EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

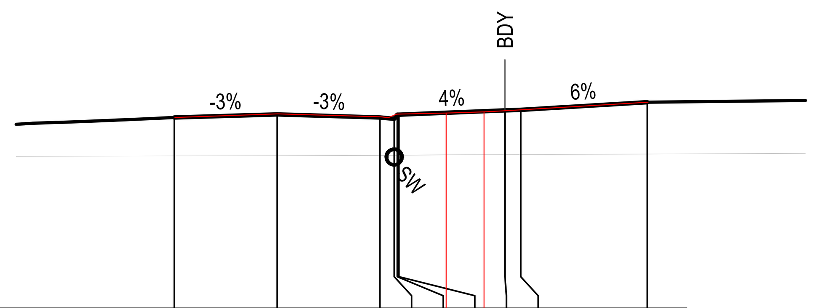
WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



DATUM R.L. 66

W.A.E.	72.88	72.85	72.72	72.65		72.56	72.57	72.65	72.57	72.56	72.66	72.73 72.77	72.77	72.83
DESIGN LEVEL	72.818	72.798		72.664	72.664	72.534	72.574	72.671	72.574	72.534	72.664	72.664	72.798	72.818
EXISTING LEVEL	70.411	70.409		70.394	70.393	70.393	70.391	70.374	70.365	70.364	70.363	70.363	70.354	70.352
OFFSET	-7.7	-7.2	5.18	-3.85 3.84	-3.8	-3.7 3.46	-3.25 3.22	0	3.25 3.26	3.7 3.49	3.8 3.84	3.85 5.36 6.54	7.2	7.7

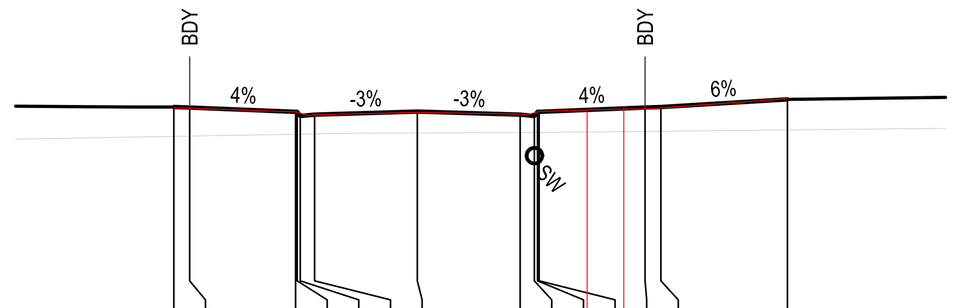
CH 39.737



DATUM R.L. 67

W.A.E.	73.03	73.15	73.06	73.03	73.14	73.17 73.21	73.25	73.28	73.52
DESIGN LEVEL	73.032	73.13	73.032	72.992	73.122	73.122	73.256	73.276	73.516
EXISTING LEVEL	71.817	71.824	71.832	71.837	71.838	71.839	71.861	71.863	71.878
OFFSET	-3.25	0	3.25 3.26	3.7 3.50	3.8 3.76	3.85 5.33 6.53	7.2	7.7	11.7

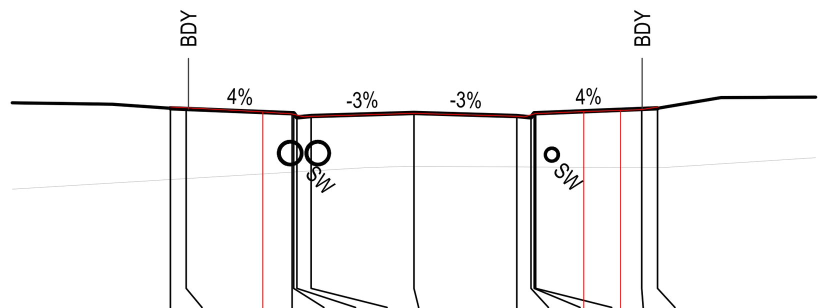
CH 75



DATUM R.L. 67

W.A.E.	73.47	73.46	73.34		73.23	73.25	73.33	73.27	73.25	73.36	73.41 73.44	73.44	73.47	73.76
DESIGN LEVEL	73.499	73.479	73.345	73.345	73.215	73.255	73.352	73.255	73.215	73.345	73.345	73.479	73.499	73.739
EXISTING LEVEL	72.568	72.576	72.634	72.635	72.637	72.644	72.676	72.686	72.691	72.692	72.692	72.727	72.732	72.773
OFFSET	-7.7	-7.2	-3.85 3.81	-3.8	-3.7 3.45	-3.25 3.23	0	3.25 3.27	3.7 3.46	3.8 3.87	3.85 5.37 6.53	7.2 7.28	7.7	11.7 11.70

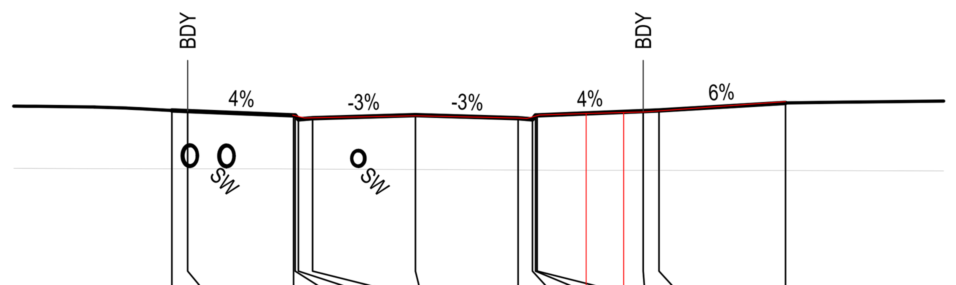
CH 92.104



DATUM R.L. 66

W.A.E.	72.74	72.71	72.58	72.52		72.43	72.44	72.54	72.45	72.43	72.53	72.60 72.63	72.66	72.74
DESIGN LEVEL	72.691	72.671		72.537	72.537	72.407	72.447	72.545	72.447	72.407	72.537	72.537	72.671	72.691
EXISTING LEVEL	70.441	70.472		70.676	70.679	70.685	70.712	70.855	70.837	70.835	70.834	70.834	70.816	70.813
OFFSET	-7.7	-7.2	4.78	-3.85 3.86	-3.8	-3.7 3.48	-3.25 3.25	0	3.25 3.23	3.7 3.49	3.8 3.83	3.85 5.37 6.53	7.2	7.7

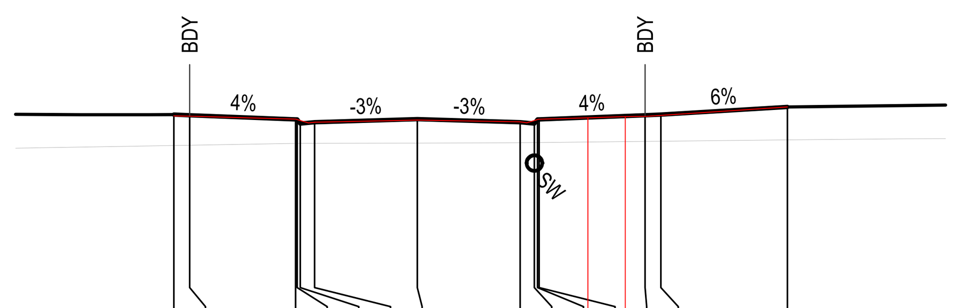
CH 30



DATUM R.L. 67

W.A.E.			72.93		72.84	72.85	72.91	72.84	72.82	72.94	72.98 73.02	73.03	73.09	73.36
DESIGN LEVEL	73.078	73.058	72.924	72.924	72.794	72.834	72.932	72.834	72.794	72.924	72.924	73.058	73.078	73.318
EXISTING LEVEL	71.235	71.235	71.229	71.229	71.228	71.226	71.21	71.194	71.192	71.192	71.191	71.188	71.188	71.178
OFFSET	-7.7	-7.2	-3.85 3.88	-3.8	-3.7 3.51	-3.25 3.26	0	3.25 3.30	3.7 3.52	3.8 3.92	3.85 5.40 6.59	7.2	7.7	11.7

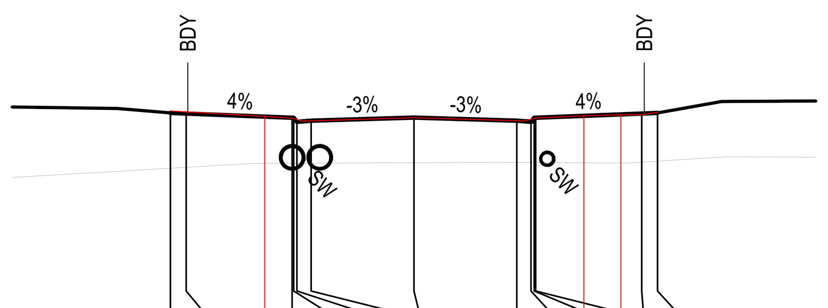
CH 59.75



DATUM R.L. 67

W.A.E.	73.43	73.42	73.33		73.21	73.23	73.30	73.24	73.21	73.32	73.37 73.41	73.41	73.45	73.71
DESIGN LEVEL	73.471	73.451	73.317	73.317	73.187	73.227	73.325	73.227	73.187	73.317	73.317	73.451	73.471	73.711
EXISTING LEVEL	72.493	72.501	72.559	72.56	72.562	72.564	72.571	72.581	72.586	72.587	72.587	72.622	72.627	72.668
OFFSET	-7.7	-7.2	-3.85 3.84	-3.8	-3.7 3.44	-3.25 3.23	0	3.25 3.23	3.7 3.46	3.8 3.83	3.85 5.39 6.57	7.2	7.7	11.7

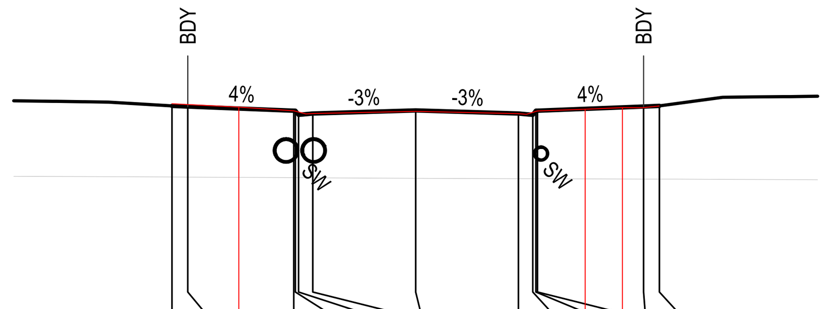
CH 90



DATUM R.L. 66

W.A.E.	72.69	72.67	72.52	72.46		72.37	72.38	72.48	72.39	72.37	72.47	72.54 72.57	72.57	72.65
DESIGN LEVEL	72.632	72.612		72.478	72.478	72.348	72.388	72.485	72.388	72.348	72.478	72.478	72.612	72.632
EXISTING LEVEL	70.884	70.913		71.038	71.038	71.039	71.041	71.056	71.066	71.063	71.063	71.062	71.075	71.106
OFFSET	-7.7	-7.2	4.72	-3.85 3.83	-3.8	-3.7 3.52	-3.25 3.26	0	3.25 3.24	3.7 3.47	3.8 3.85	3.85 5.37 6.54	7.2	7.7

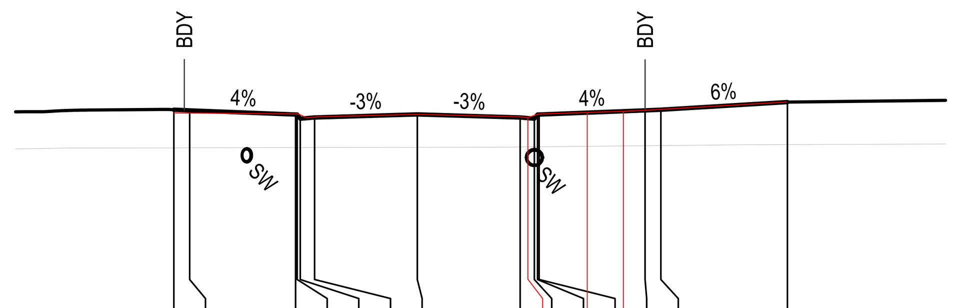
CH 25.427



DATUM R.L. 66

W.A.E.	72.95	72.93	72.85	72.73		72.63	72.64	72.71	72.64	72.62	72.72	72.78 72.83	72.83	72.88
DESIGN LEVEL	72.886	72.866		72.732	72.732	72.602	72.642	72.74	72.642	72.602	72.732	72.732	72.866	72.886
EXISTING LEVEL	70.637	70.634		70.618	70.617	70.617	70.614	70.595	70.583	70.582	70.581	70.581	70.572	70.57
OFFSET	-7.7	-7.2	5.59	-3.85 3.85	-3.8	-3.7 3.47	-3.25 3.24	0	3.25 3.25	3.7 3.50	3.8 3.85	3.85 5.36 6.53	7.2	7.7

CH 45



DATUM R.L. 67

W.A.E.	73.27	73.27	73.23		73.11	73.14	73.22	73.14	73.12	73.23	73.28 73.32	73.35	73.38	73.61
DESIGN LEVEL	73.37	73.35	73.216	73.216	73.086	73.126	73.223	73.126	73.086	73.216	73.216	73.35	73.37	73.61
EXISTING LEVEL	72.164	72.165	72.173	72.173	72.173	72.174	72.181	72.19	72.195	72.196	72.197	72.231	72.236	72.267
OFFSET	-7.7	-7.2	-3.85 3.75	-3.8	-3.7 3.50	-3.25 3.20	0	3.25 3.25	3.7 3.50	3.8 3.82	3.85 5.37 6.52	7.2	7.7	11.7

CH 82.173

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ROAD 36

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

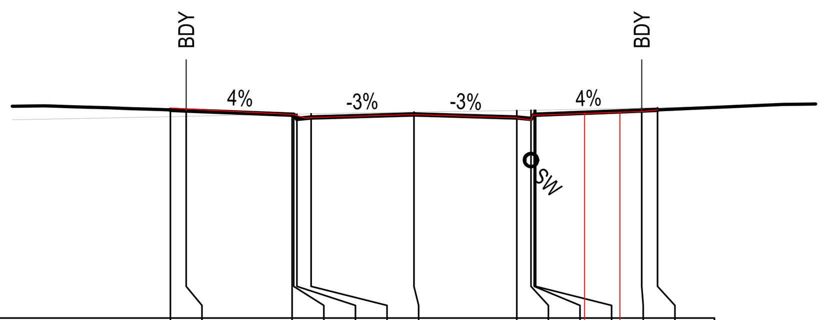
Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ROAD CROSS SECTIONS SHEET 21

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	370	B

LEGEND	
EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

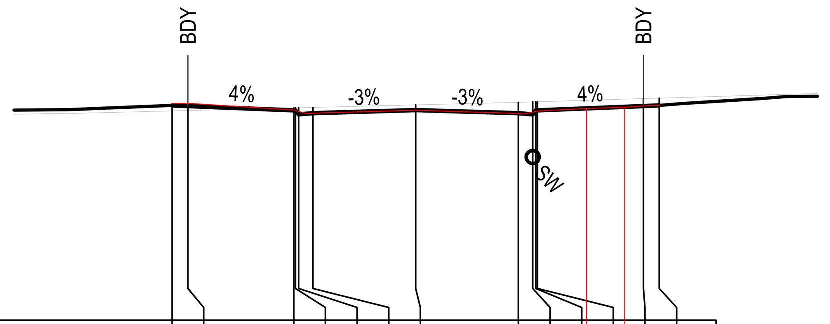
WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



DATUM R.L. 68

W.A.E.	74.63	74.60	74.43		74.31	74.33	74.42	74.32	74.24	74.41 74.41	74.46 74.50	74.52	74.57
DESIGN LEVEL	74.572	74.552	74.418	74.418	74.288	74.328	74.425	74.328	74.288	74.418	74.418	74.552	74.572
EXISTING LEVEL	74.357	74.367	74.434	74.435	74.437	74.446	74.501	74.549	74.556	74.558	74.558	74.628	74.639
OFFSET	-7.7	-7.2	-3.85 3.83	-3.8	-3.7 3.42	-3.25 3.21	0	3.25 3.22	3.7 3.70	3.8 3.75 4.09	3.85 5.39 6.51	7.2	7.7

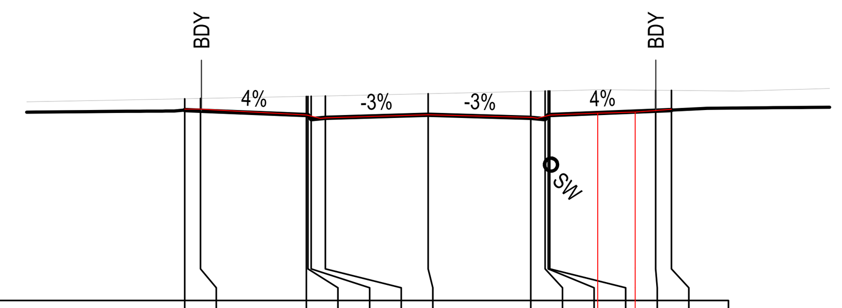
CH 135



DATUM R.L. 69

W.A.E.	75.85	75.86	75.64		75.53	75.55	75.64	75.54	75.52	75.61	75.69 75.73	75.77	75.79
DESIGN LEVEL	75.787	75.767	75.633	75.633	75.503	75.543	75.641	75.543	75.503	75.633	75.633	75.767	75.787
EXISTING LEVEL	75.614	75.626	75.71	75.711	75.714	75.725	75.806	75.887	75.9	75.903	75.904	76.003	76.018
OFFSET	-7.7	-7.2	-3.85 3.83	-3.8	-3.7 3.45	-3.25 3.24	0	3.25 3.21	3.7 3.45	3.8 3.86	3.85 5.40 6.60	7.2	7.7

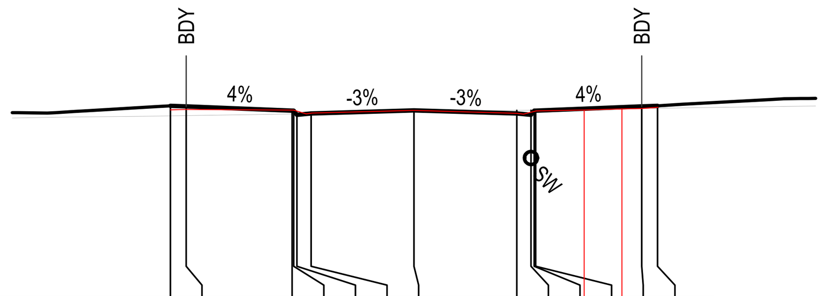
CH 165



DATUM R.L. 71

W.A.E.	77.05	77.05	76.86		76.76	76.77	76.87	76.79	76.76	76.86	76.92 76.96	77.01	77.05
DESIGN LEVEL	77.017	76.997	76.863	76.863	76.733	76.773	76.871	76.773	76.733	76.863	76.863	76.997	77.017
EXISTING LEVEL	77.376	77.386	77.452	77.453	77.454	77.463	77.537	77.612	77.623	77.625	77.626	77.647	77.642
OFFSET	-7.7	-7.2	-3.85 3.84	-3.8	-3.7 3.41	-3.25 3.22	0	3.25 3.29	3.7 3.46	3.8 3.86	3.85 5.37 6.55	7.2	7.7

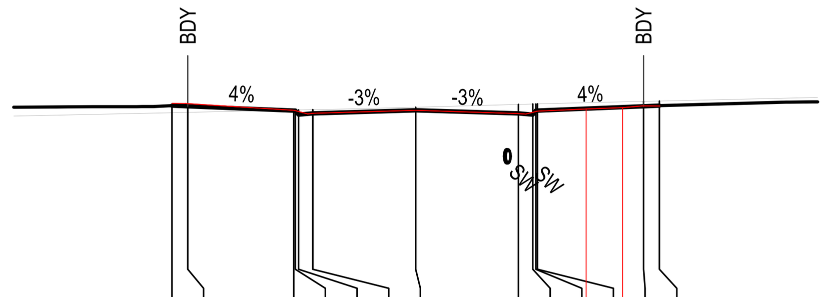
CH 195



DATUM R.L. 68

W.A.E.	73.95	73.96	73.94		73.82	73.85	73.93	73.84	73.82	73.92	73.95 73.98	74.00	74.03
DESIGN LEVEL	74.079	74.059	73.925	73.925	73.795	73.835	73.933	73.835	73.795	73.925	73.925	74.059	74.079
EXISTING LEVEL	73.761	73.769	73.821	73.822	73.824	73.831	73.881	73.932	73.939	73.941	73.942	73.993	74.001
OFFSET	-7.7	-7.2	-3.85 3.80	-3.8	-3.7 3.41	-3.25 3.22	0	3.25 3.26	3.7 3.46	3.8 3.86	3.85 5.38 6.57	7.2	7.7

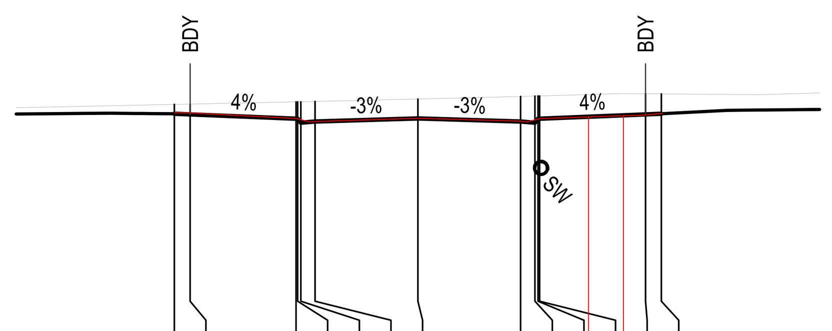
CH 120



DATUM R.L. 69

W.A.E.	75.25	75.24	75.03		74.91	74.93	75.02	74.92	74.91	75.00	75.07 75.11	75.17	75.16
DESIGN LEVEL	75.172	75.152	75.018	75.018	74.888	74.928	75.026	74.928	74.888	75.018	75.018	75.152	75.172
EXISTING LEVEL	74.951	74.962	75.033	75.035	75.037	75.046	75.125	75.212	75.223	75.226	75.227	75.308	75.32
OFFSET	-7.7	-7.2	-3.85 3.84	-3.8	-3.7 3.41	-3.25 3.23	0	3.25 3.21	3.7 3.48	3.8 3.85	3.85 5.39 6.54	7.2	7.7

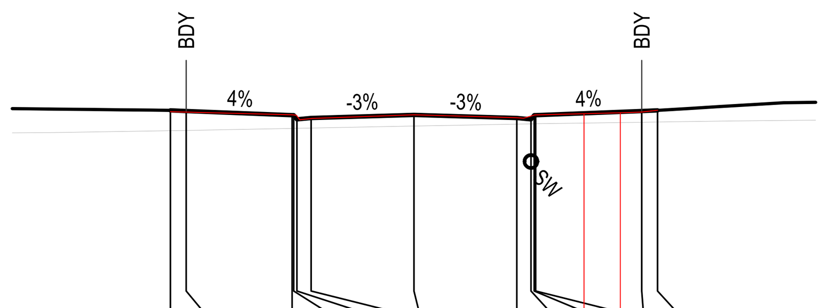
CH 150



DATUM R.L. 70

W.A.E.	76.96	76.95	76.77		76.67	76.68	76.79	76.69	76.67	76.77	76.83 76.86	76.89	76.94
DESIGN LEVEL	76.927	76.907	76.773	76.773	76.643	76.683	76.78	76.683	76.643	76.773	76.773	76.907	76.927
EXISTING LEVEL	77.223	77.233	77.304	77.305	77.307	77.316	77.396	77.475	77.487	77.49	77.492	77.559	77.555
OFFSET	-7.7	-7.2	-3.85 3.82	-3.8	-3.7 3.43	-3.25 3.22	0	3.25 3.24	3.7 3.46	3.8 3.85	3.85 5.39 6.50	7.2	7.7

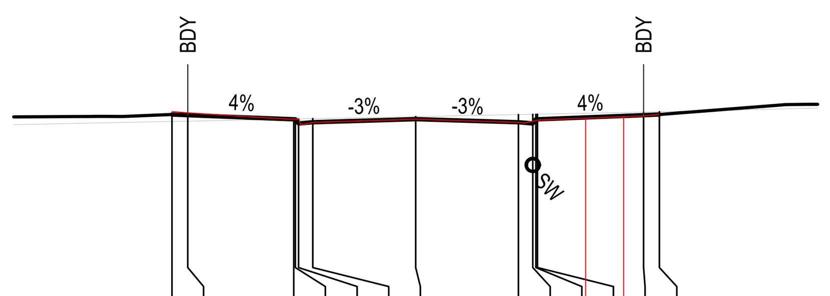
CH 192.786



DATUM R.L. 67

W.A.E.	73.67	73.66	73.57	73.56	73.41	73.46	73.57	73.48	73.46	73.57	73.61 73.64	73.66	73.72
DESIGN LEVEL	73.713	73.693	73.559	73.559	73.429	73.469	73.566	73.469	73.429	73.559	73.559	73.693	73.713
EXISTING LEVEL	73.069	73.078	73.142	73.143	73.145	73.153	73.215	73.277	73.285	73.287	73.288	73.337	73.344
OFFSET	-7.7	-7.2	-3.85 3.85	-3.8 3.72	-3.7 3.61	-3.25 3.20	0	3.25 3.27	3.7 3.46	3.8 3.82	3.85 5.37 6.52	7.2	7.7

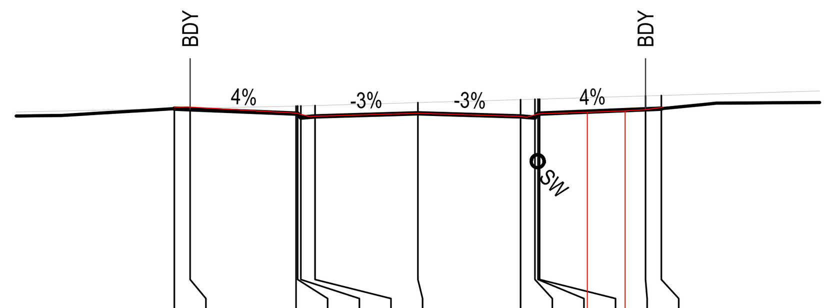
CH 105



DATUM R.L. 69

W.A.E.	74.94	74.90	74.70	74.71	74.53	74.60	74.70	74.60	74.58	74.67	74.73 74.78	74.81	74.85
DESIGN LEVEL	74.849	74.829	74.695	74.695	74.565	74.605	74.702	74.605	74.565	74.695	74.695	74.829	74.849
EXISTING LEVEL	74.629	74.639	74.706	74.707	74.709	74.718	74.783	74.843	74.853	74.855	74.856	74.927	74.937
OFFSET	-7.7	-7.2	-3.85 4.01	-3.8 3.69	-3.7 3.63	-3.25 3.21	0	3.25 3.24	3.7 3.43	3.8 3.86	3.85 5.37 6.57	7.2	7.7

CH 142.104



DATUM R.L. 70

W.A.E.	76.45	76.46	76.26		76.15	76.17	76.26	76.16	76.14	76.24	76.29 76.33	76.37	76.45
DESIGN LEVEL	76.402	76.382	76.248	76.248	76.118	76.158	76.256	76.158	76.118	76.248	76.248	76.382	76.402
EXISTING LEVEL	76.402	76.413	76.486	76.487	76.489	76.501	76.594	76.688	76.701	76.704	76.706	76.803	76.818
OFFSET	-7.7	-7.2	-3.85 3.84	-3.8	-3.7 3.41	-3.25 3.20	0	3.25 3.22	3.7 3.44	3.8 3.83	3.85 5.36 6.55	7.2	7.7

CH 180

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ROAD 36

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

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

Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ROAD CROSS SECTIONS SHEET 22

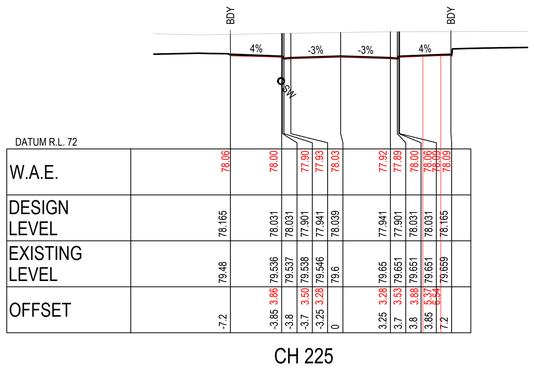
Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	371	B

LEGEND	
EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

WORKS AS EXECUTED

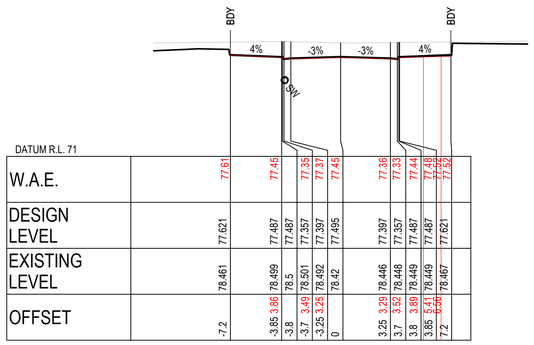
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP



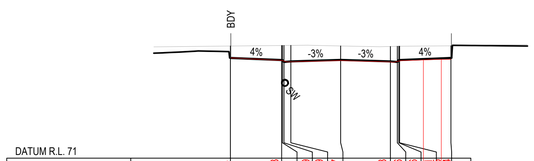
DATUM R.L. 72													
W.A.E.		78.06		78.00		77.90	77.93	78.03		77.92	77.89	78.00	78.06
DESIGN LEVEL	78.165		78.031		78.031	77.901	77.941	78.039		77.941	77.901	78.031	78.165
EXISTING LEVEL	79.48		79.536		79.537	79.538	79.546	79.6		79.65	79.651	79.651	79.659
OFFSET	-7.2		-3.85	3.86	-3.8	-3.7	-3.25	0		3.25	3.7	3.8	7.2

CH 225



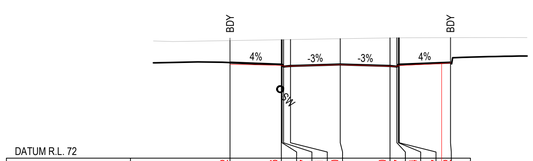
DATUM R.L. 71													
W.A.E.		77.61		77.45		77.35	77.37	77.45		77.36	77.33	77.44	77.52
DESIGN LEVEL	77.621		77.487		77.487	77.357	77.397	77.495		77.397	77.357	77.487	77.621
EXISTING LEVEL	78.461		78.499		78.5	78.501	78.492	78.42		78.446	78.448	78.449	78.467
OFFSET	-7.2		-3.85	3.86	-3.8	-3.7	-3.25	0		3.25	3.7	3.8	7.2

CH 210.242



DATUM R.L. 71													
W.A.E.		77.54		77.38		77.29	77.25	77.37		77.28	77.26	77.36	77.45
DESIGN LEVEL	77.539		77.405		77.405	77.275	77.315	77.412		77.315	77.275	77.405	77.539
EXISTING LEVEL	78.316		78.352		78.353	78.354	78.359	78.322		78.29	78.303	78.305	78.306
OFFSET	-7.2		-3.85	3.87	-3.8	-3.7	-3.25	0		3.25	3.7	3.8	7.2

CH 208.206



DATUM R.L. 72													
W.A.E.		78.12		78.06		77.97	78.01	78.10		78.00	77.97	78.04	78.17
DESIGN LEVEL	78.24		78.106		78.106	77.976	78.016	78.113		78.016	77.976	78.106	78.24
EXISTING LEVEL	79.674		79.73		79.73	79.732	79.74	79.794		79.848	79.855	79.855	79.863
OFFSET	-7.2		-3.85	3.90	-3.8	-3.7	-3.25	0		3.25	3.7	3.8	7.2

CH 227.243

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ROAD 36

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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@theorionngroup.au

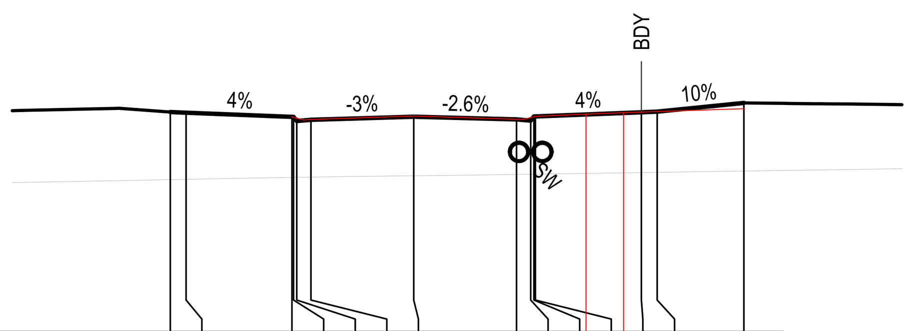
Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ROAD CROSS SECTIONS SHEET 23

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	372	B

LEGEND	
EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

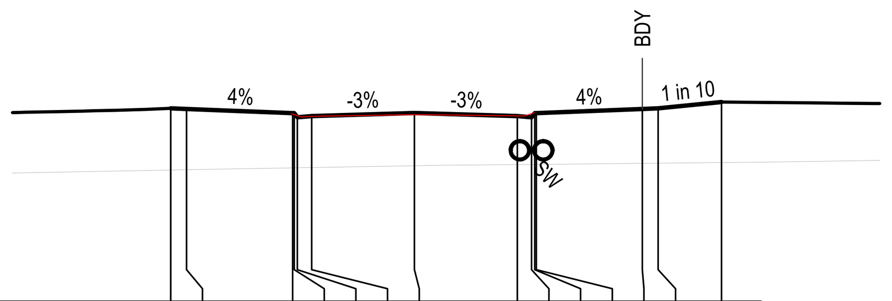
WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



DATUM R.L. 67

W.A.E.			73.80		73.69	73.71	73.82	73.72	73.72	73.81	73.88 73.93	73.94	73.96	74.05
DESIGN LEVEL	73.944	73.924	73.79	73.79	73.66	73.7	73.798	73.713	73.673	73.803	73.803	73.937	73.957	74.231
EXISTING LEVEL	71.808	71.817	71.878	71.879	71.881	71.889	71.929	71.971	71.978	71.979	71.98	72.03	72.038	72.079
OFFSET	-7.7	-7.2	-3.85 3.86	-3.8	-3.7 3.49	-3.25 3.26	0	3.25 3.19	3.7 3.49	3.8 3.82	3.85 5.45 6.64	7.2	7.7	10.446

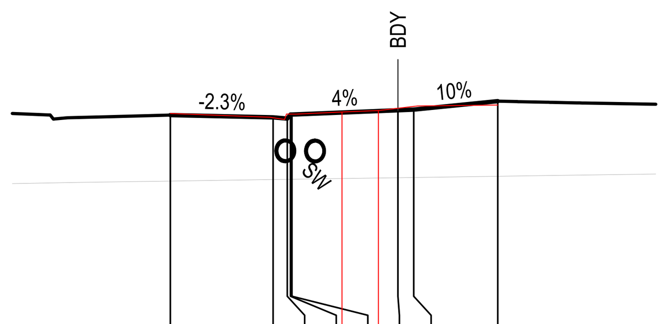
CH 23.348



DATUM R.L. 68

W.A.E.			73.93		73.83	73.85	73.90	73.87	73.86		73.96			
DESIGN LEVEL	74.102	74.082	73.948	73.948	73.818	73.858	73.955	73.858	73.818	73.948	73.948	74.082	74.102	74.302
EXISTING LEVEL	72.151	72.161	72.219	72.22	72.222	72.229	72.285	72.323	72.327	72.328	72.329	72.361	72.366	72.385
OFFSET	-7.7	-7.2	-3.85 3.89	-3.8	-3.7 3.57	-3.25 3.25	0	3.25 3.22	3.7 3.48	3.8	3.85 3.79	7.2	7.7	9.7

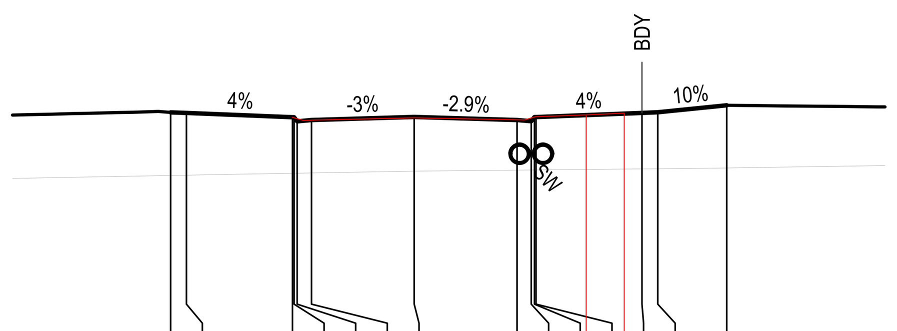
CH 32.12



DATUM R.L. 67

W.A.E.	73.78	73.66	73.59	73.76 73.76	73.83 73.87	73.94	74.02	74.05
DESIGN LEVEL	73.73	73.657	73.617	73.747	73.747	73.881	73.901	74.167
EXISTING LEVEL	71.643	71.69	71.697	71.698	71.699	71.748	71.755	71.794
OFFSET	0	3.25 3.15	3.7 3.61	3.8 3.68 3.97	3.85 5.43 6.58	7.2	7.7	10.36

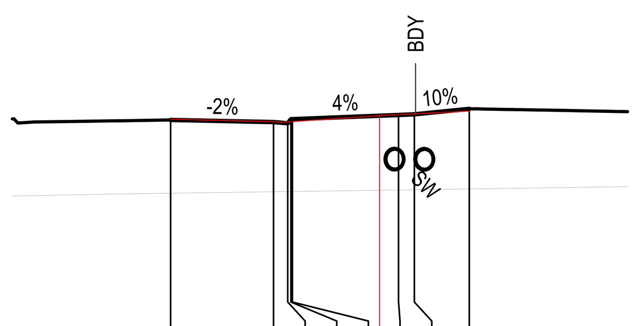
CH 15.3



DATUM R.L. 67

W.A.E.			73.91		73.80	73.82	73.89	73.83	73.83	73.93	73.99 74.04			
DESIGN LEVEL	74.064	74.044	73.91	73.91	73.78	73.82	73.917	73.823	73.783	73.913	73.913	74.047	74.067	74.285
EXISTING LEVEL	72.068	72.078	72.137	72.138	72.139	72.147	72.203	72.235	72.24	72.241	72.241	72.273	72.278	72.306
OFFSET	-7.7	-7.2	-3.85 3.86	-3.8	-3.7 3.48	-3.25 3.24	0	3.25 3.18	3.7 3.49	3.8 3.83	3.85 5.43 6.64	7.2	7.7	9.881

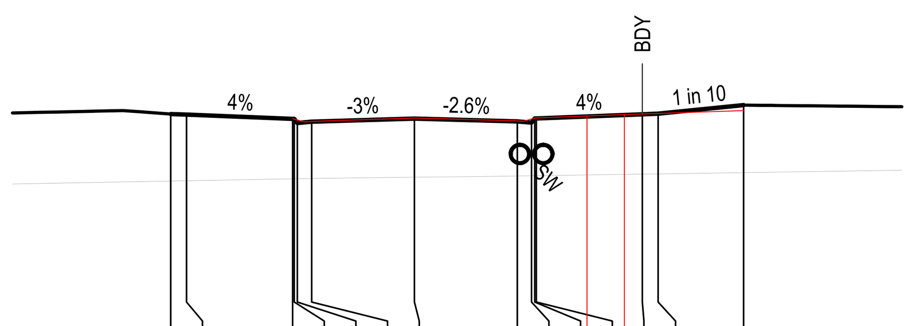
CH 30



DATUM R.L. 67

W.A.E.	73.80	73.72	73.70	73.72	73.91 73.97		74.02	74.05
DESIGN LEVEL	73.766	73.701	73.661	73.791	73.791	73.925	73.945	74.119
EXISTING LEVEL	71.445	71.493	71.499	71.501	71.501	71.55	71.557	71.582
OFFSET	0	3.25 3.23	3.7 3.50	3.8 3.86	3.85 6.60	7.2	7.7	9.435

CH 9.398



DATUM R.L. 67

W.A.E.			73.80		73.70	73.72	73.83	73.74	73.72	73.82	73.89 73.94	73.95	73.96	74.06
DESIGN LEVEL	73.955	73.935	73.801	73.801	73.671	73.711	73.808	73.722	73.682	73.812	73.812	73.946	73.966	74.236
EXISTING LEVEL	71.831	71.84	71.902	71.902	71.904	71.912	71.954	71.992	71.999	72	72.001	72.051	72.059	72.099
OFFSET	-7.7	-7.2	-3.85 3.84	-3.8	-3.7 3.48	-3.25 3.24	0	3.25 3.23	3.7 3.44	3.8 3.79	3.85 5.45 6.63	7.2	7.7	10.398

CH 23.944

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ROAD 37

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

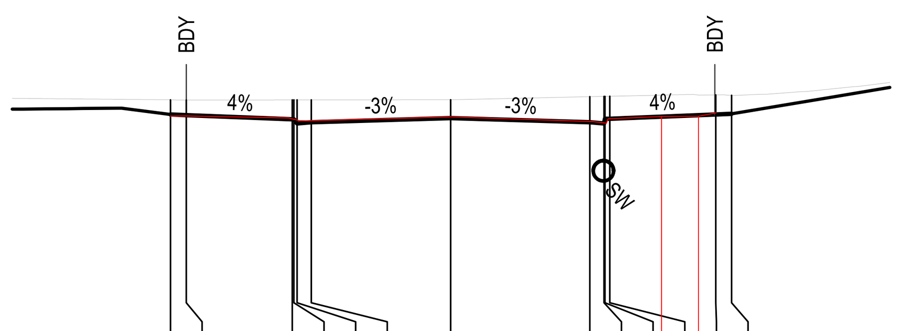
Title:
ROAD CROSS SECTIONS
SHEET 24

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	373	B

LEGEND

EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

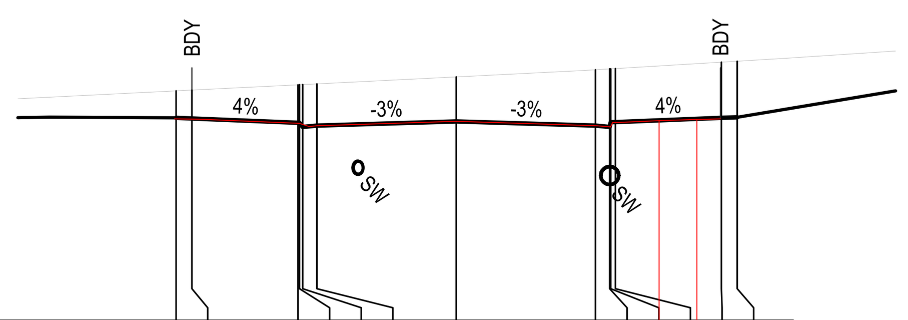
WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



DATUM R.L. 70

W.A.E.	76.90	76.91	76.84		76.76	76.75	76.88	76.73	76.68	76.82	76.89 76.90	77.00	
DESIGN LEVEL	76.952	76.932	76.798	76.798	76.668	76.708	76.84	76.708	76.668	76.818	76.818	76.952	76.972
EXISTING LEVEL	77.414	77.409	77.412	77.412	77.412	77.413	77.417	77.515	77.524	77.525	77.528	77.572	77.557
OFFSET	-8.85	-8.35	-5	-4.95	-4.85	-4.4	0	4.4	4.85	4.88	5.03	8.38	8.88

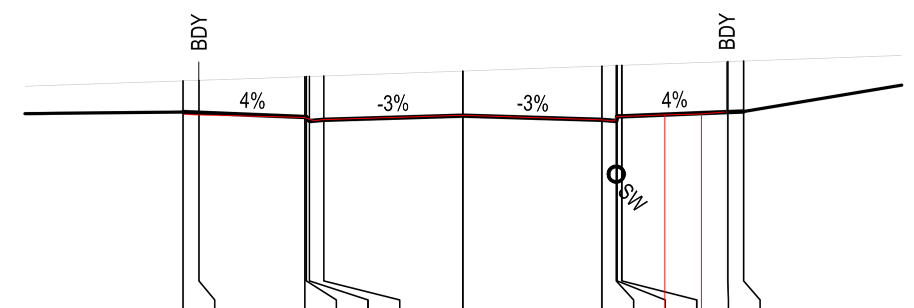
CH 46.17



DATUM R.L. 72

W.A.E.	78.36	78.35	78.22		78.12	78.15	78.28	78.14	78.11	78.25	78.30 78.34	78.36	
DESIGN LEVEL	78.391	78.371	78.237	78.237	78.107	78.147	78.279	78.147	78.107	78.257	78.257	78.391	78.411
EXISTING LEVEL	79.243	79.268	79.435	79.438	79.443	79.465	79.685	79.909	79.936	79.938	79.947	80.15	80.18
OFFSET	-8.85 8.90	-8.35 8.13	-5 4.96	-4.95	-4.85 4.65	-4.4 4.41	0	4.4 4.45	4.85 4.88	4.88 4.94	5.03 6.41 7.61	8.38	8.88

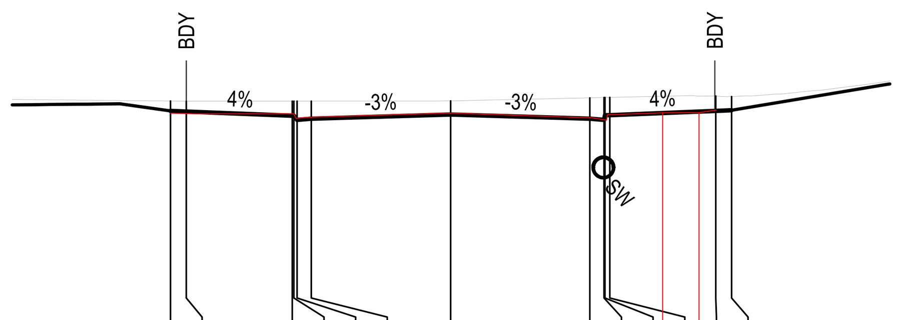
CH 75



DATUM R.L. 74

W.A.E.	80.27	80.25	80.17		80.07	80.10	80.24	80.10	80.06	80.20	80.25 80.28	80.34	
DESIGN LEVEL	80.338	80.318	80.184	80.184	80.054	80.094	80.226	80.094	80.054	80.204	80.204	80.338	80.358
EXISTING LEVEL	81.324	81.341	81.459	81.461	81.464	81.48	81.637	81.794	81.81	81.811	81.816	81.935	81.953
OFFSET	-8.85	-8.35	-5 5.03	-4.95	-4.85 4.70	-4.4 4.45	0	4.4 4.37	4.85 4.79	4.88 4.85	5.03 6.39 7.55	8.38	8.88

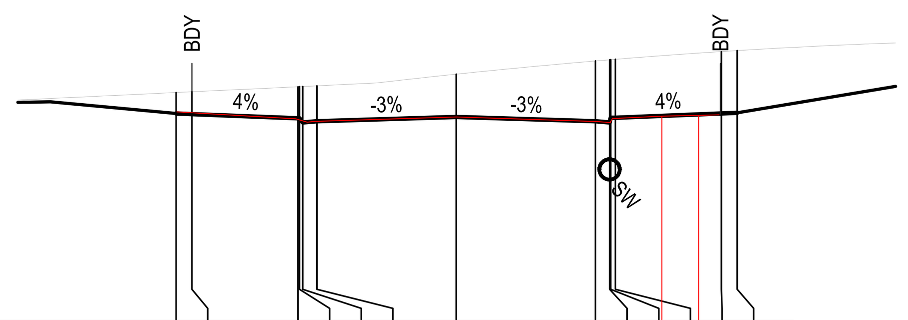
CH 105



DATUM R.L. 70

W.A.E.	76.83	76.81	76.82	76.82	76.68	76.71	76.84	76.69	76.62	76.79	76.85 76.85	76.94	
DESIGN LEVEL	76.907	76.887	76.753	76.753	76.623	76.663	76.795	76.663	76.623	76.773	76.773	76.907	76.927
EXISTING LEVEL	77.22	77.214	77.217	77.217	77.217	77.218	77.222	77.319	77.329	77.33	77.333	77.377	77.361
OFFSET	-8.85	-8.35	-5 5.09	-4.95 4.96	-4.85 4.89	-4.4 4.46	0	4.4 4.50	4.85 4.92	4.88 4.96	5.03 6.70 7.85	8.38	8.88

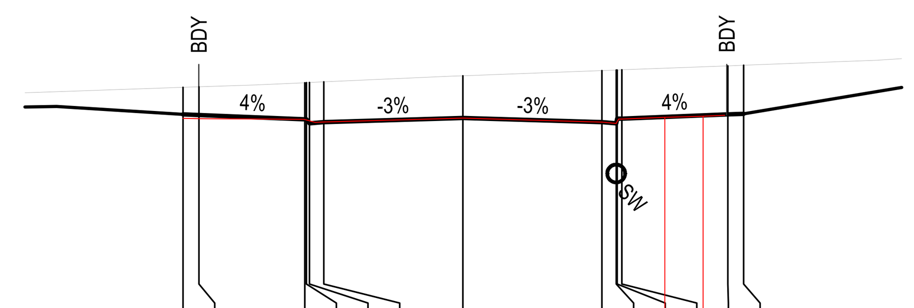
CH 45



DATUM R.L. 71

W.A.E.	77.60	77.58	77.38		77.28	77.30	77.44	77.30	77.26	77.40	77.47 77.49	77.51	
DESIGN LEVEL	77.551	77.531	77.397	77.397	77.267	77.307	77.439	77.307	77.267	77.417	77.417	77.551	77.571
EXISTING LEVEL	78.213	78.236	78.395	78.397	78.402	78.424	78.792	79.209	79.246	79.249	79.261	79.505	79.536
OFFSET	-8.85	-8.35	-5 5.07	-4.95	-4.85 4.71	-4.4 4.48	0	4.4 4.45	4.85 4.87	4.88 4.94	5.03 6.50 7.66	8.38	8.88

CH 60

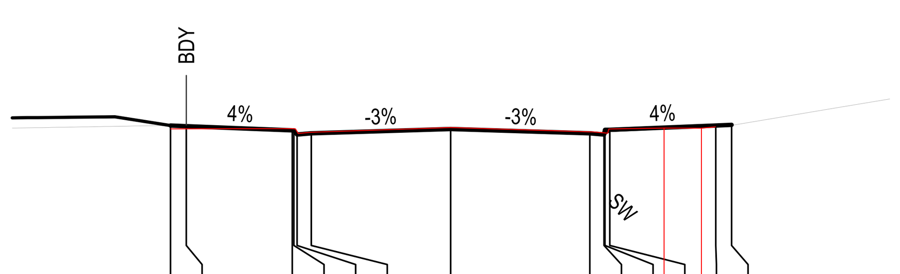


DATUM R.L. 73

W.A.E.	79.24	79.23	79.21		79.11	79.12	79.24	79.12	79.08	79.22	79.27 79.31	79.34	
DESIGN LEVEL	79.363	79.343	79.209	79.209	79.079	79.119	79.251	79.119	79.079	79.229	79.229	79.363	79.383
EXISTING LEVEL	80.218	80.235	80.365	80.367	80.372	80.392	80.585	80.75	80.766	80.767	80.773	80.898	80.917
OFFSET	-8.85	-8.35	-5 5.02	-4.95	-4.85 4.67	-4.4 4.42	0	4.4 4.42	4.85 4.85	4.88 4.93	5.03 6.39 7.60	8.38	8.88

CH 90

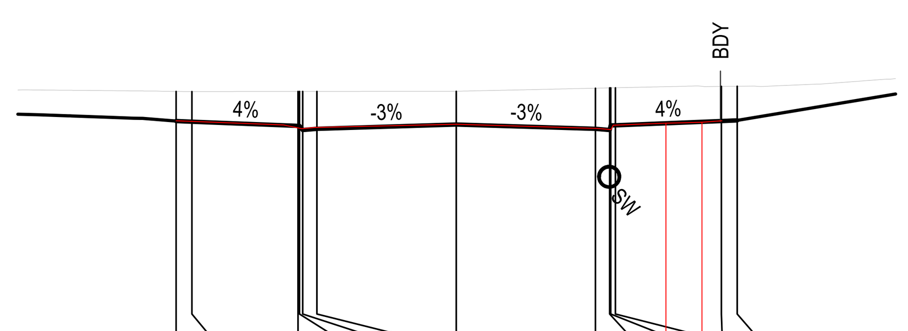
CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL
25/02/2025
SUBDIVISION WORKS CERTIFICATE
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



DATUM R.L. 72

W.A.E.	76.68	76.69	76.69	76.68	76.54	76.57	76.72	76.58	76.54	76.68	76.71 76.70	76.74	
DESIGN LEVEL	76.786	76.766	76.632	76.632	76.502	76.542	76.674	76.542	76.502	76.652	76.652	76.786	76.806
EXISTING LEVEL	76.786	76.766	76.632	76.632	76.502	76.542	76.674	76.543	76.502	76.541	76.639	76.767	76.792
OFFSET	-8.85	-8.35	-5 5.03	-4.95 4.90	-4.85 4.82	-4.4 4.40	0	4.4 4.53	4.85 4.96	4.88 5.00	5.03 6.75 7.93	8.38	8.88

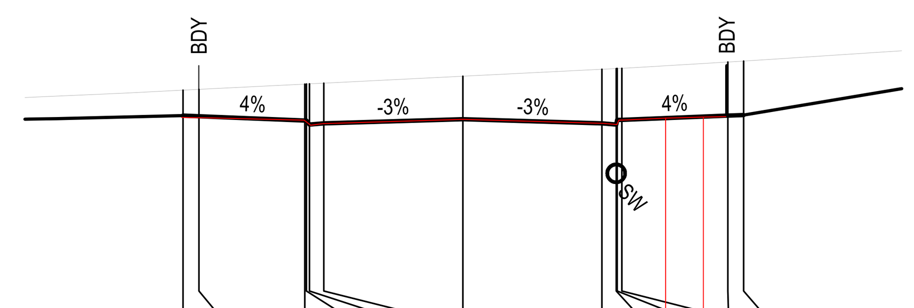
CH 41.465



DATUM R.L. 70

W.A.E.	77.11		76.98		76.86	76.90	77.00	76.87	76.83	76.97	77.03 77.06	77.10	77.11
DESIGN LEVEL	77.102	77.082	76.948	76.948	76.818	76.858	76.99	76.858	76.818	76.968	76.968	77.102	77.122
EXISTING LEVEL	78.036	78.034	78.037	78.037	78.037	78.038	78.042	78.14	78.149	78.15	78.153	78.197	78.202
OFFSET	-8.85	-8.35	-5 5.46	-4.95	-4.85 4.88	-4.4 4.49	0	4.4 4.46	4.85 4.89	4.88 4.96	5.03 6.63 7.77	8.38	8.88

CH 49.92



DATUM R.L. 72

W.A.E.	78.49	78.47	78.40		78.24	78.29	78.43	78.30	78.26	78.40	78.46 78.50	78.51	
DESIGN LEVEL	78.546	78.526	78.392	78.392	78.262	78.302	78.434	78.302	78.262	78.412	78.412	78.546	78.566
EXISTING LEVEL	79.351	79.376	79.543	79.545	79.55	79.573	79.792	80.012	80.034	80.036	80.043	80.242	80.272
OFFSET	-8.85	-8.35	-5 5.02	-4.95	-4.85 4.81	-4.4 4.42	0	4.4 4.45	4.85 4.87	4.88 4.94	5.03 6.42 7.61	8.38	8.88

CH 77.42

ROAD 40

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

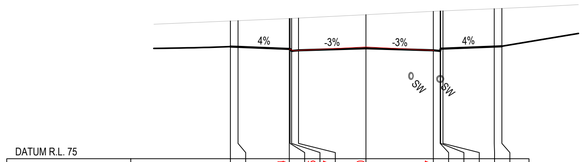
By: ORION
ABN:25 604 069 981 PO Box:7936, BAULKHAM HILLS NSW 2153 T:(02) 8660 0035 E:info@theoriongroup.au
SUSTAINABLE CERTIFICATION ISO 9001 ISO 45001 ISO 14001
JAS-ANZ WWW.JAS-ANZ.ORG/REGISTER

Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ROAD CROSS SECTIONS SHEET 25

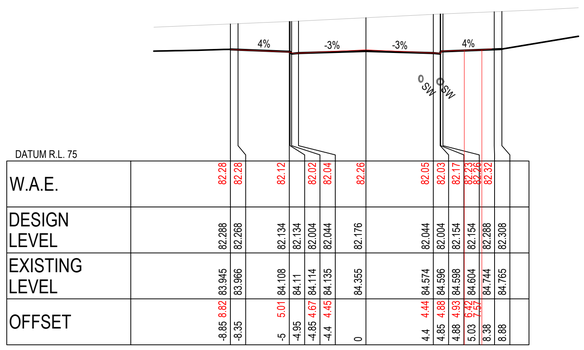
Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	374	B

LEGEND	
EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	MS SW



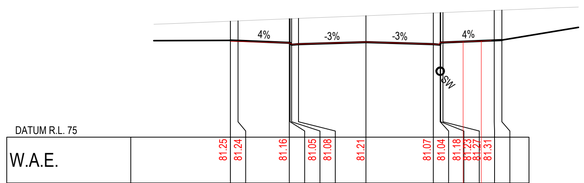
DATUM R.L. 75													
W.A.E.			82.14	82.05	82.07	82.30		82.07					
DESIGN LEVEL	82.32	82.3	82.166	82.166	82.036	82.076	82.208	82.076	82.036	82.186	82.186	82.22	82.34
EXISTING LEVEL	83.99	84.012	84.153	84.155	84.16	84.182	84.402	84.621	84.644	84.645	84.652	84.793	84.814
OFFSET	-8.65	-8.35	-5	-4.95	-4.85	-4.4	0	4.4	4.85	4.88	5.03	8.38	8.88
			4.99	4.69	4.44			4.45					

CH 135.489



DATUM R.L. 75													
W.A.E.	82.28	82.28	82.12	82.02	82.04	82.26		82.05	82.03	82.17	82.26	82.32	
DESIGN LEVEL	82.288	82.268	82.134	82.134	82.004	82.044	82.176	82.044	82.004	82.154	82.154	82.288	82.308
EXISTING LEVEL	83.945	83.966	84.108	84.11	84.114	84.135	84.355	84.574	84.596	84.598	84.604	82.744	84.765
OFFSET	-8.65	-8.35	-5	-4.95	-4.85	-4.4	0	4.4	4.85	4.88	5.03	8.38	8.88
	8.82		5.01		4.67	4.45		4.44	4.88	4.93	4.79		

CH 135



DATUM R.L. 75													
W.A.E.	81.25	81.24	81.16	81.05	81.08	81.21		81.07	81.04	81.18	81.27	81.31	
DESIGN LEVEL	81.313	81.293	81.159	81.159	81.029	81.069	81.201	81.069	81.029	81.179	81.179	81.313	81.333
EXISTING LEVEL	82.567	82.588	82.728	82.73	82.734	82.753	82.924	83.104	83.123	83.124	83.13	83.272	83.293
OFFSET	-8.65	-8.35	-5	-4.95	-4.85	-4.4	0	4.4	4.85	4.88	5.03	8.38	8.88
			5.06		4.74	4.49		4.33	4.77	4.84	5.25	8.20	

CH 120

ROAD 40

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ROAD CROSS SECTIONS SHEET 26

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	375	B

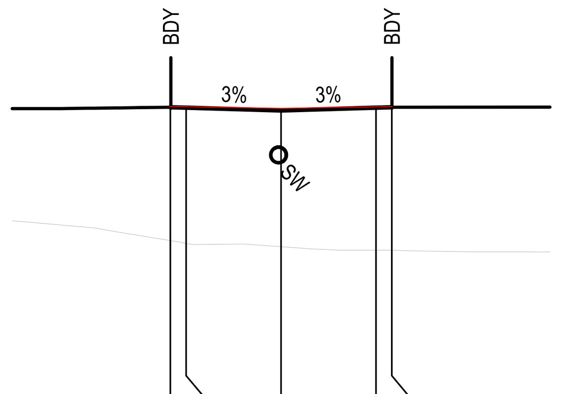
LEGEND

EXISTING SURFACE	
DESIGN SURFACE	———
INDICATIVE STORMWATER ALIGNMENT	° SW

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

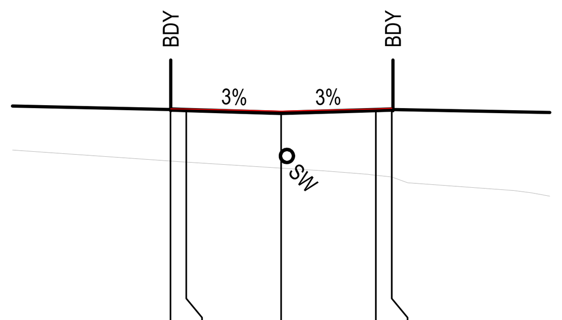
REGISTERED SURVEYOR ID: 8890
ORION GROUP



DATUM R.L. 66

W.A.E.	75.50	75.50	75.44	75.48	75.50
DESIGN LEVEL	75.476	75.461	75.371	75.461	75.476
EXISTING LEVEL	71.264	71.177	71.071	70.96	70.96
OFFSET	-3.5	-3 / 2.96	0	3 / 2.97	3.5

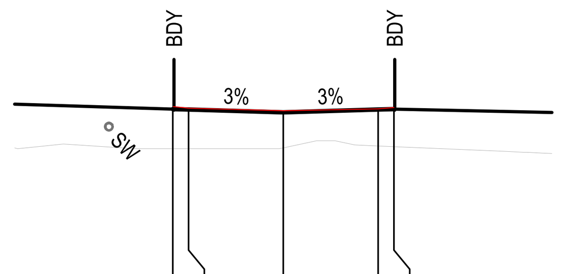
CH 45



DATUM R.L. 69

W.A.E.	75.99	75.98	75.91	75.98	76.01
DESIGN LEVEL	75.964	75.949	75.859	75.949	75.964
EXISTING LEVEL	74.338	74.305	74.114	73.889	73.834
OFFSET	-3.5	-3 / 2.96	0	3 / 2.97	3.5

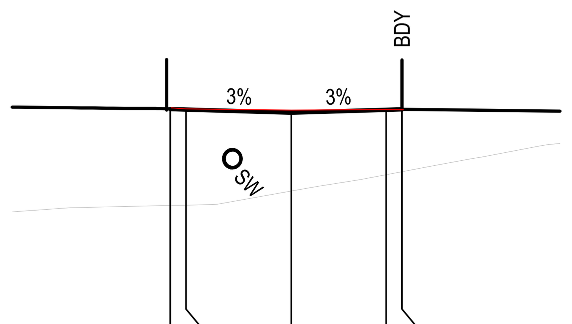
CH 90



DATUM R.L. 71

W.A.E.	76.53	76.48	76.40	76.46	76.50
DESIGN LEVEL	76.452	76.437	76.347	76.437	76.452
EXISTING LEVEL	75.2	75.2	75.228	75.288	75.267
OFFSET	-3.5	-3 / 3.00	0	3 / 2.98	3.5

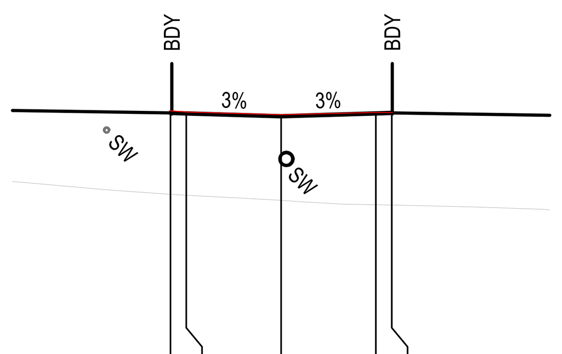
CH 135



DATUM R.L. 68

W.A.E.	75.37	75.33	75.30	75.31	75.31
DESIGN LEVEL	75.333	75.318	75.218	75.308	75.323
EXISTING LEVEL	72.279	72.29	72.736	73.254	73.349
OFFSET	-3.832	-3.332 / 3.35	0	3 / 2.98	3.5

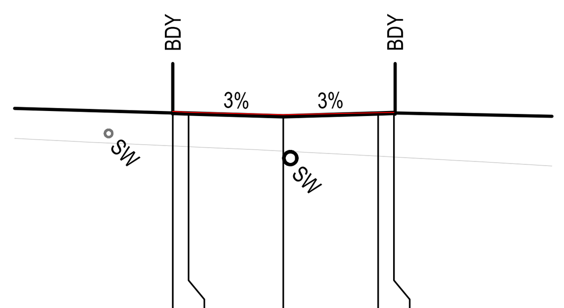
CH 30.878



DATUM R.L. 68

W.A.E.	75.87	75.83	75.75	75.82	75.82
DESIGN LEVEL	75.801	75.786	75.696	75.786	75.801
EXISTING LEVEL	73.228	73.197	73.032	72.895	72.885
OFFSET	-3.5	-3 / 2.94	0	3 / 2.94	3.5

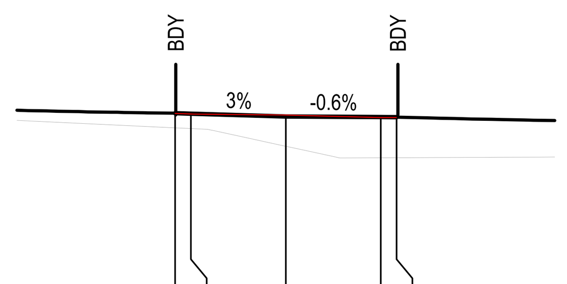
CH 75



DATUM R.L. 70

W.A.E.	76.34	76.31	76.24	76.30	76.31
DESIGN LEVEL	76.289	76.274	76.184	76.274	76.289
EXISTING LEVEL	75.249	75.226	75.085	74.928	74.9
OFFSET	-3.5	-3 / 3.02	0	3 / 2.99	3.5

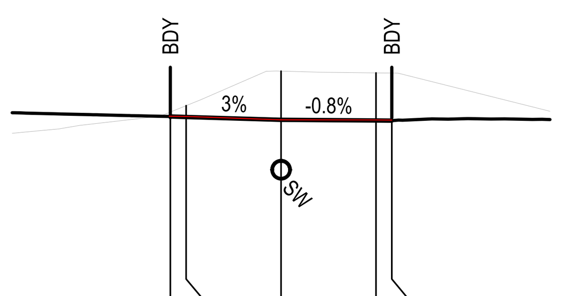
CH 120



DATUM R.L. 71

W.A.E.	76.62	76.60	76.57	76.49	76.49
DESIGN LEVEL	76.627	76.612	76.522	76.505	76.502
EXISTING LEVEL	76.165	76.141	75.58	75.216	75.217
OFFSET	-3.5	-3 / 2.91	0	3 / 3.00	3.5

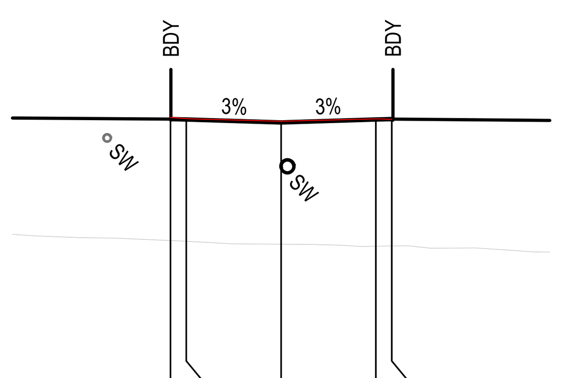
CH 151.947



DATUM R.L. 69

W.A.E.	75.16	75.15	75.04	75.04	75.03
DESIGN LEVEL	75.148	75.133	75.043	75.02	75.016
EXISTING LEVEL	75.29	75.493	76.583	76.531	76.525
OFFSET	-3.5	-3 / 2.97	0	3 / 2.99	3.5

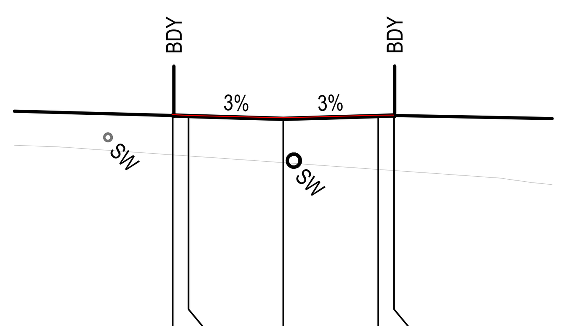
CH 14.782



DATUM R.L. 67

W.A.E.	75.69	75.65	75.57	75.65	75.63
DESIGN LEVEL	75.639	75.624	75.534	75.624	75.639
EXISTING LEVEL	71.805	71.782	71.688	71.625	71.632
OFFSET	-3.5	-3 / 2.87	0	3 / 3.04	3.5

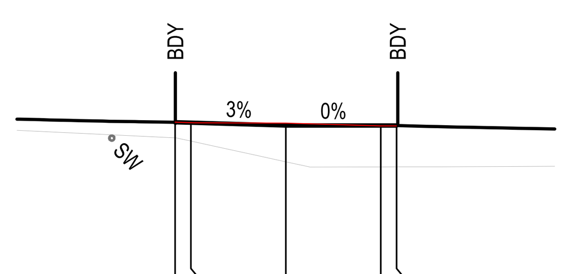
CH 60



DATUM R.L. 69

W.A.E.	76.16	76.13	76.05	76.14	76.14
DESIGN LEVEL	76.127	76.112	76.022	76.112	76.127
EXISTING LEVEL	74.883	74.848	74.635	74.423	74.387
OFFSET	-3.5	-3 / 2.98	0	3 / 2.97	3.5

CH 105



DATUM R.L. 71

W.A.E.	76.62	76.60	76.59	76.50	76.50
DESIGN LEVEL	76.618	76.603	76.513	76.514	76.514
EXISTING LEVEL	76.126	76.021	75.368	75.207	75.208
OFFSET	-3.5	-3 / 2.91	0	3 / 3.00	3.5

CH 150.24

LANEWAY 01

C

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

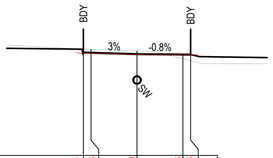
Project:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title:
ROAD CROSS SECTIONS
SHEET 27

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	376	C

LEGEND	
EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

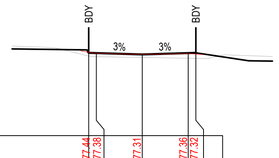
WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



DATUM R.L. 70

W.A.E.	76.64	76.68	76.59		76.58	76.58
DESIGN LEVEL	76.718	76.703	76.613		76.589	76.585
EXISTING LEVEL	76.651	76.532	76.813		76.301	76.176
OFFSET	-3.5	-3 2.96	0		3 3.00	3.5

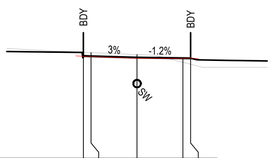
CH 181.479



DATUM R.L. 72

W.A.E.	77.44	77.38	77.31		77.36	77.32
DESIGN LEVEL	77.405	77.39	77.3		77.39	77.405
EXISTING LEVEL	77.194	77.151	77.101		77.052	77.044
OFFSET	-3.5	-3 2.98	0		3 3.02	3.5

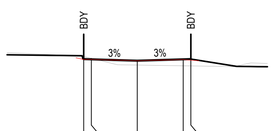
CH 210



DATUM R.L. 70

W.A.E.	76.65	76.64	76.53		76.52	76.55
DESIGN LEVEL	76.679	76.664	76.574		76.538	76.532
EXISTING LEVEL	76.921	76.901	76.773		76.268	76.143
OFFSET	-3.5	-3 2.98	0		3 2.99	3.5

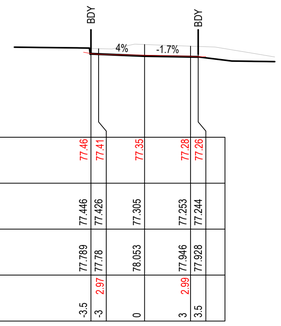
CH 180



DATUM R.L. 72

W.A.E.	77.29	77.29	77.20		77.28	77.24
DESIGN LEVEL	77.308	77.293	77.203		77.293	77.308
EXISTING LEVEL	77.479	77.356	76.918		76.871	76.863
OFFSET	-3.5	-3 3.00	0		3 2.99	3.5

CH 205.197



DATUM R.L. 72

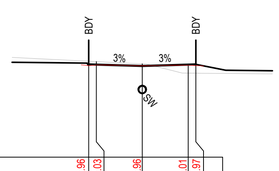
W.A.E.	77.46	77.41	77.35		77.28	77.26
DESIGN LEVEL	77.446	77.426	77.305		77.253	77.244
EXISTING LEVEL	77.789	77.78	78.053		77.946	77.928
OFFSET	-3.5	-3 2.97	0		3 2.99	3.5

CH 225

DATUM R.L. 70

W.A.E.	76.55	76.53	76.38		76.43	76.41
DESIGN LEVEL	76.596	76.581	76.491		76.431	76.421
EXISTING LEVEL	76.843	76.819	76.683		76.206	76.081
OFFSET	-3.5	-3 2.98	0		3 3.01	3.5

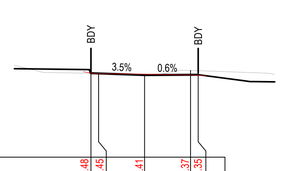
CH 177.238



DATUM R.L. 71

W.A.E.	76.96	77.03	76.96		77.01	76.97
DESIGN LEVEL	77.055	77.04	76.95		77.04	77.055
EXISTING LEVEL	77.258	77.233	77.09		76.484	76.478
OFFSET	-3.5	-3 2.95	0		3 2.99	3.5

CH 195



DATUM R.L. 72

W.A.E.	77.48	77.45	77.41		77.37	77.35
DESIGN LEVEL	77.482	77.464	77.359		77.376	77.379
EXISTING LEVEL	77.472	77.463	77.41		77.657	77.64
OFFSET	-3.5	-3 2.99	0		3 2.99	3.5

CH 217.664

C

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

LANEWAY 01

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ROAD CROSS SECTIONS SHEET 28

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	377	C

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

25/02/2025

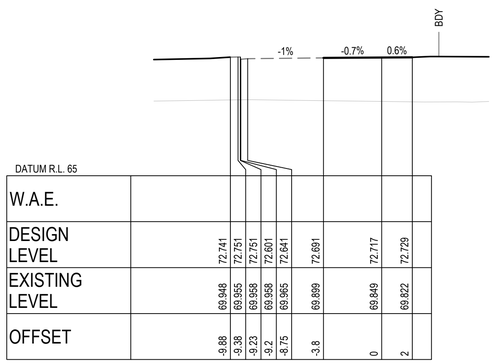
SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP

LEGEND

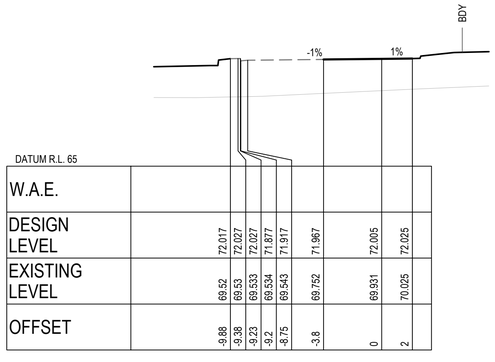
EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW



DATUM R.L. 65

W.A.E.								
DESIGN LEVEL	72.741	72.751	72.751	72.601	72.641	72.691	72.717	72.729
EXISTING LEVEL	69.948	69.955	69.958	69.958	69.965	69.899	69.849	69.822
OFFSET	-9.88	-9.38	-9.23	-9.2	-8.75	-3.8	0	2

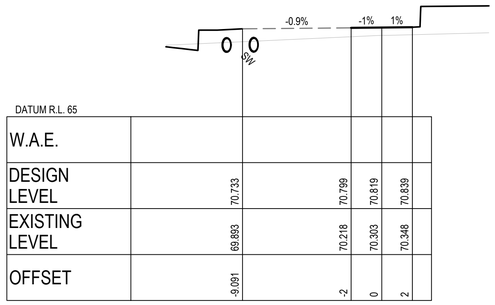
CH 12.644



DATUM R.L. 65

W.A.E.								
DESIGN LEVEL	72.017	72.027	72.027	71.877	71.917	71.967	72.005	72.025
EXISTING LEVEL	69.52	69.53	69.533	69.534	69.543	69.752	69.931	70.025
OFFSET	-9.88	-9.38	-9.23	-9.2	-8.75	-3.8	0	2

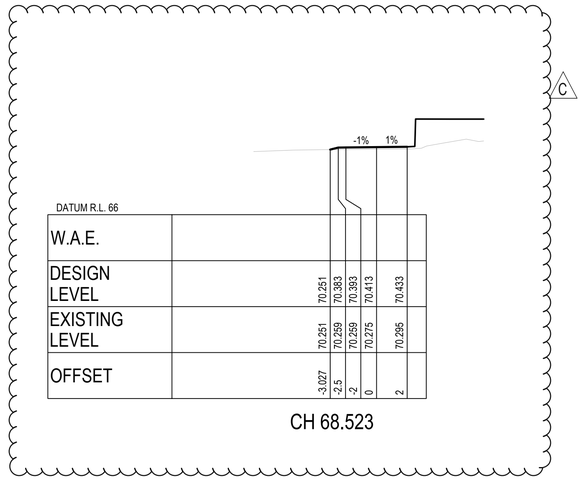
CH 34.621



DATUM R.L. 65

W.A.E.					
DESIGN LEVEL	70.733	70.799	70.819	70.839	
EXISTING LEVEL	69.893	70.218	70.303	70.348	
OFFSET	-9.091	-2	0	2	

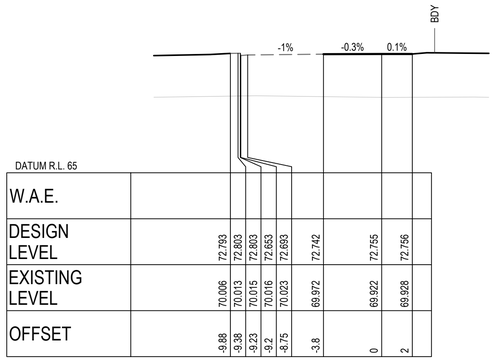
CH 58.338



DATUM R.L. 66

W.A.E.								
DESIGN LEVEL	70.251	70.383	70.393	70.413	70.433			
EXISTING LEVEL	70.251	70.259	70.259	70.275	70.295			
OFFSET	-3.027	-2.5	-2	0	2			

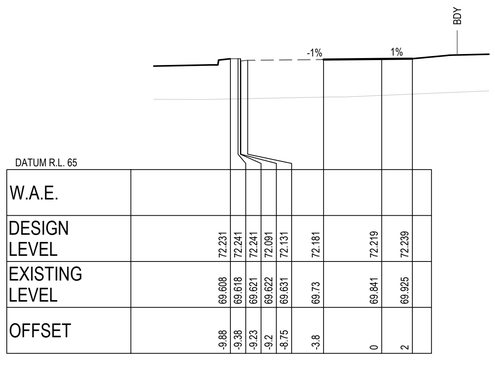
CH 68.523



DATUM R.L. 65

W.A.E.								
DESIGN LEVEL	72.793	72.803	72.803	72.653	72.693	72.742	72.755	72.756
EXISTING LEVEL	70.006	70.013	70.015	70.016	70.023	69.972	69.922	69.928
OFFSET	-9.88	-9.38	-9.23	-9.2	-8.75	-3.8	0	2

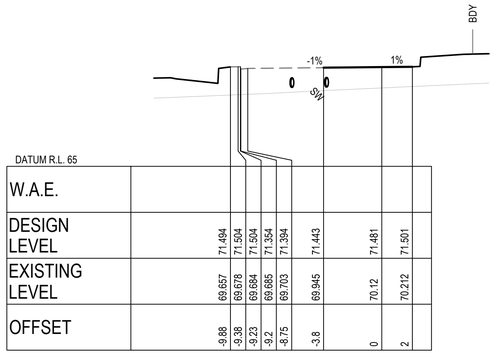
CH 9.621



DATUM R.L. 65

W.A.E.								
DESIGN LEVEL	72.231	72.241	72.241	72.091	72.131	72.181	72.219	72.239
EXISTING LEVEL	69.608	69.618	69.621	69.622	69.631	69.73	69.841	69.925
OFFSET	-9.88	-9.38	-9.23	-9.2	-8.75	-3.8	0	2

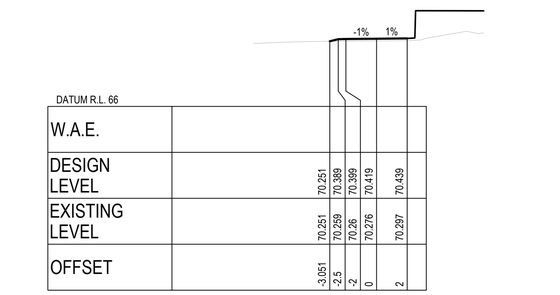
CH 30



DATUM R.L. 65

W.A.E.								
DESIGN LEVEL	71.494	71.504	71.504	71.354	71.394	71.443	71.481	71.501
EXISTING LEVEL	69.657	69.678	69.684	69.685	69.703	69.945	70.12	70.212
OFFSET	-9.88	-9.38	-9.23	-9.2	-8.75	-3.8	0	2

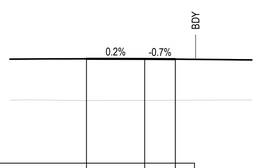
CH 45.087



DATUM R.L. 66

W.A.E.								
DESIGN LEVEL	70.251	70.389	70.399	70.419	70.439			
EXISTING LEVEL	70.251	70.259	70.26	70.276	70.297			
OFFSET	-3.051	-2.5	-2	0	2			

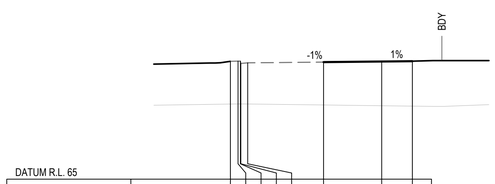
CH 68.338



DATUM R.L. 66

W.A.E.			
DESIGN LEVEL	72.809	72.8	72.786
EXISTING LEVEL	70.081	70.097	70.106
OFFSET	-3.8	0	2

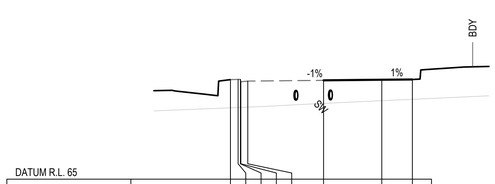
CH 5.1



DATUM R.L. 65

W.A.E.								
DESIGN LEVEL	72.691	72.701	72.701	72.551	72.591	72.64	72.678	72.697
EXISTING LEVEL	69.9	69.908	69.91	69.91	69.904	69.841	69.792	69.766
OFFSET	-9.88	-9.38	-9.23	-9.2	-8.75	-3.8	0	2

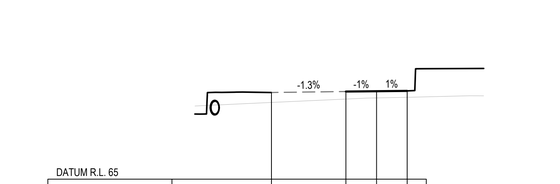
CH 15



DATUM R.L. 65

W.A.E.								
DESIGN LEVEL	71.498	71.508	71.508	71.358	71.398	71.448	71.486	71.506
EXISTING LEVEL	69.655	69.676	69.682	69.683	69.702	69.943	70.118	70.21
OFFSET	-9.88	-9.38	-9.23	-9.2	-8.75	-3.8	0	2

CH 45



DATUM R.L. 65

W.A.E.								
DESIGN LEVEL	70.656	70.718	70.738	70.758				
EXISTING LEVEL	70.004	70.228	70.302	70.339				
OFFSET	-6.861	-2	0	2				

CH 60

SPS ENTRY

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

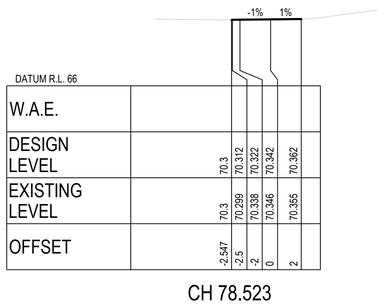
Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ROAD CROSS SECTIONS SHEET 29

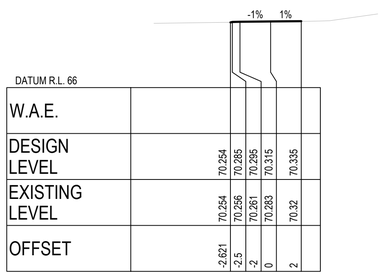
Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	378	C

LEGEND	
EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

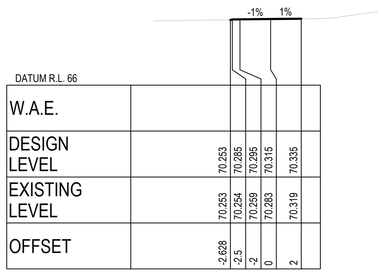
WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



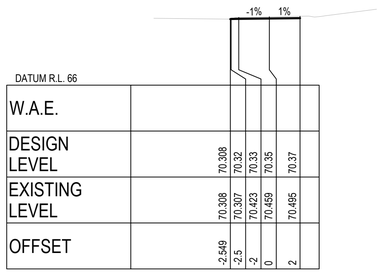
CH 78.523



CH 75.089



CH 75



CH 79.054

SPS ENTRY

C

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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@theorionngroup.au

Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ROAD CROSS SECTIONS SHEET 30

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	379	C

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

25/02/2025

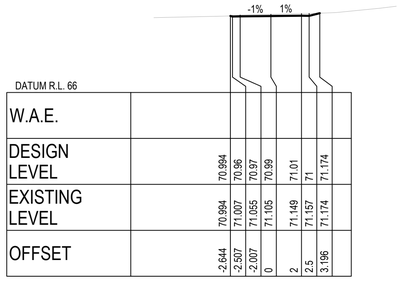
SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

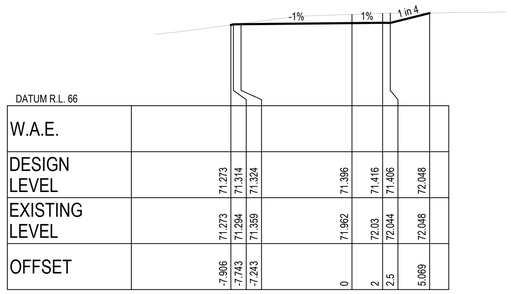
WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP

LEGEND

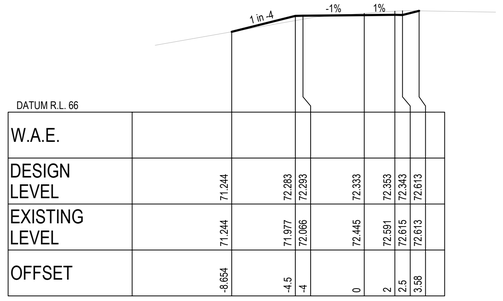
EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW



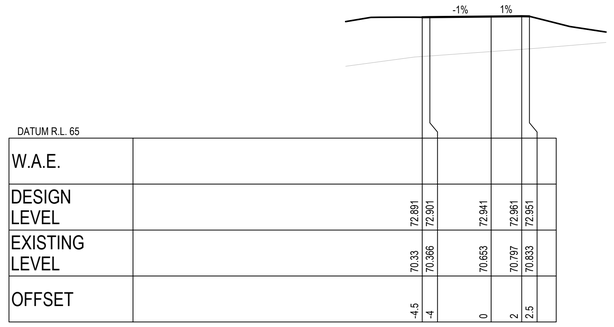
CH 6.729



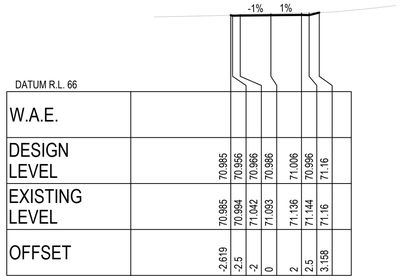
CH 21.223



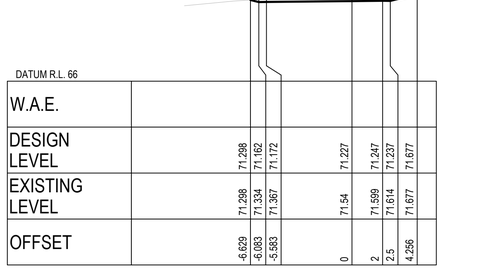
CH 41.437



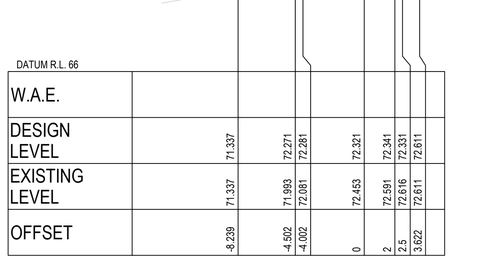
CH 56.583



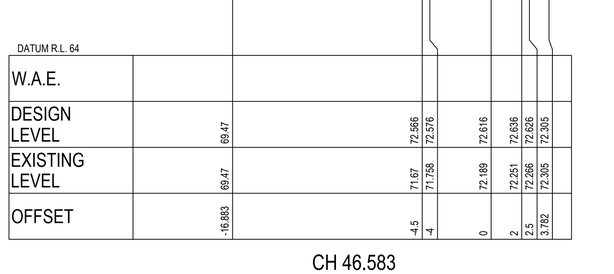
CH 6.28



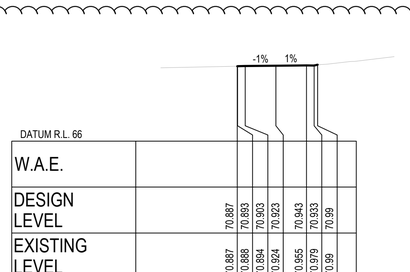
CH 16.729



CH 41.223

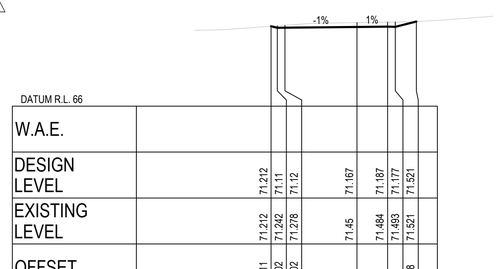


CH 46.583

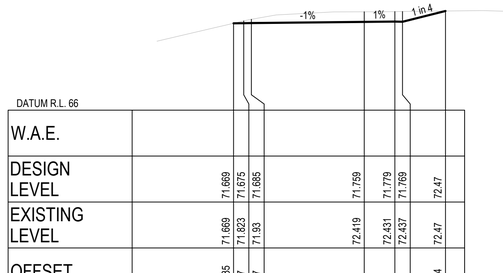


CH 0

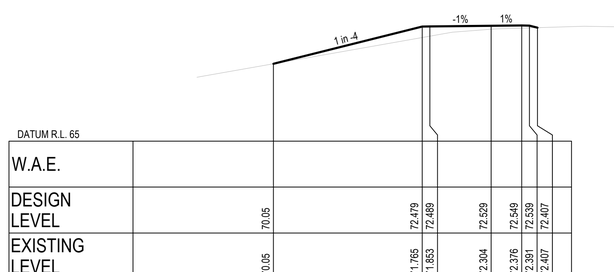
SPS EXIT



CH 15



CH 30



CH 45

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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@theorionngroup.au

Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ROAD CROSS SECTIONS SHEET 31

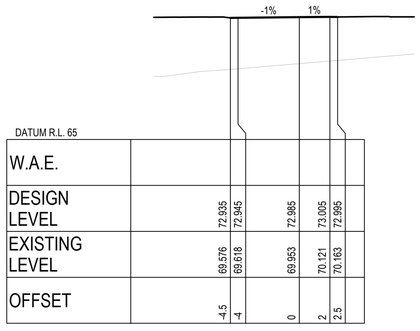
Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	380	C

LEGEND	
EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

WORKS AS EXECUTED

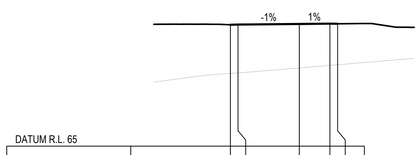
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP



DATUM R.L. 65							
W.A.E.							
DESIGN LEVEL	72.935	72.945		72.985	73.005	72.995	
EXISTING LEVEL	69.576	69.618		69.953	70.121	70.163	
OFFSET	-4.5	-4		0	2	2.5	

CH 61



DATUM R.L. 65							
W.A.E.							
DESIGN LEVEL	72.925	72.935		72.975	72.995	72.985	
EXISTING LEVEL	69.747	69.783		70.103	70.271	70.313	
OFFSET	-4.5	-4		0	2	2.5	

CH 60

SPS EXIT

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

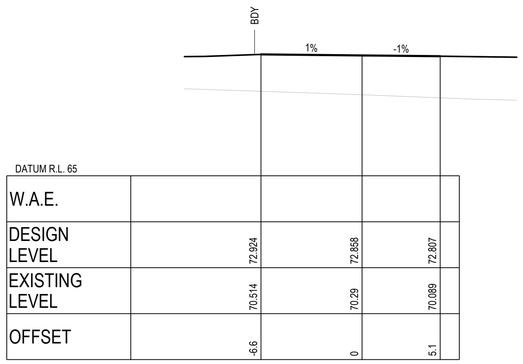
Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ROAD CROSS SECTIONS SHEET 32

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	381	B

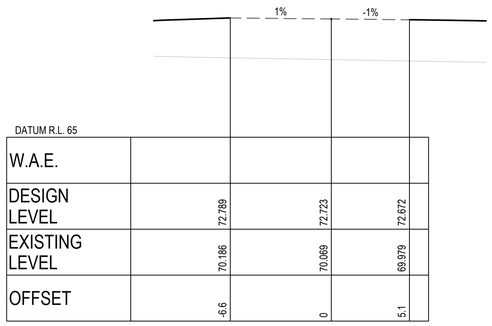
LEGEND	
EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



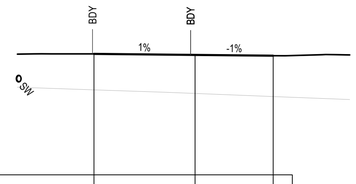
DATUM R.L. 65			
W.A.E.			
DESIGN LEVEL	72.924	72.858	72.807
EXISTING LEVEL	70.514	70.29	70.089
OFFSET	-6.6	0	5.1

CH 15



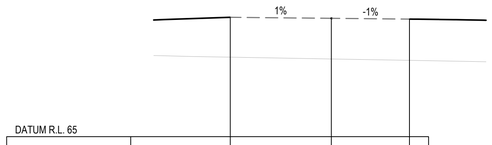
DATUM R.L. 65			
W.A.E.			
DESIGN LEVEL	72.789	72.723	72.672
EXISTING LEVEL	70.186	70.069	69.979
OFFSET	-6.6	0	5.1

CH 30



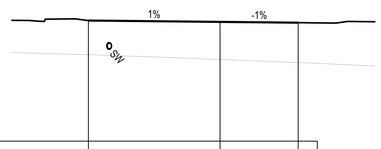
DATUM R.L. 65			
W.A.E.			
DESIGN LEVEL	72.893	72.827	72.776
EXISTING LEVEL	70.546	70.312	70.111
OFFSET	-6.6	0	5.1

CH 9.8



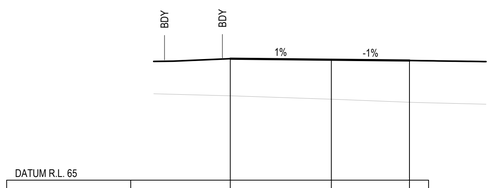
DATUM R.L. 65			
W.A.E.			
DESIGN LEVEL	72.793	72.727	72.676
EXISTING LEVEL	70.19	70.072	69.982
OFFSET	-6.6	0	5.1

CH 29.8



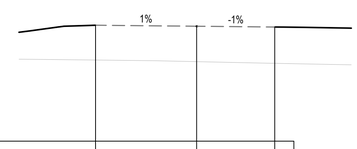
DATUM R.L. 65			
W.A.E.			
DESIGN LEVEL	72.871	72.785	72.734
EXISTING LEVEL	70.64	70.329	70.128
OFFSET	-8.6	0	5.1

CH 5.65



DATUM R.L. 65			
W.A.E.			
DESIGN LEVEL	72.926	72.86	72.809
EXISTING LEVEL	70.505	70.281	70.083
OFFSET	-6.6	0	5.1

CH 16.467



DATUM R.L. 65			
W.A.E.			
DESIGN LEVEL	72.565	72.499	72.448
EXISTING LEVEL	70.292	70.189	70.078
OFFSET	-6.6	0	5.1

CH 41.167

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

SPORTS ACCESS 1

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

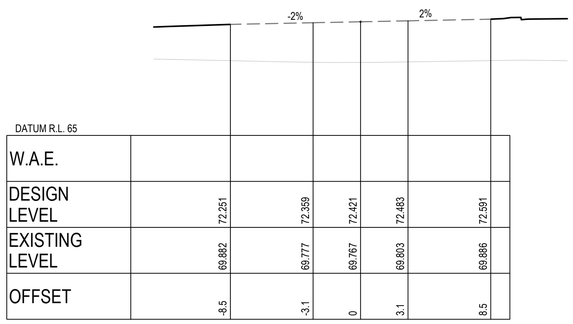
Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title: ROAD CROSS SECTIONS SHEET 33

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	382	B

LEGEND	
EXISTING SURFACE	
DESIGN SURFACE	
INDICATIVE STORMWATER ALIGNMENT	SW

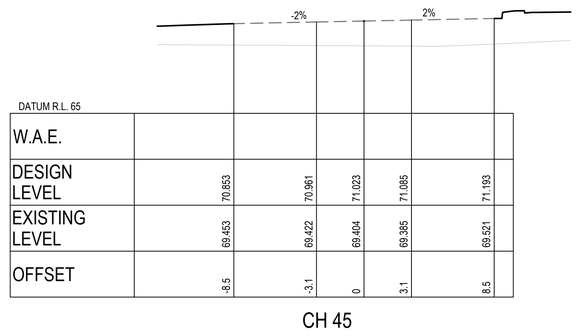
WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



DATUM R.L. 65

W.A.E.						
DESIGN LEVEL	72.251	72.359	72.421	72.483	72.591	
EXISTING LEVEL	69.882	69.777	69.767	69.803	69.886	
OFFSET	-8.5	-3.1	0	3.1	8.5	

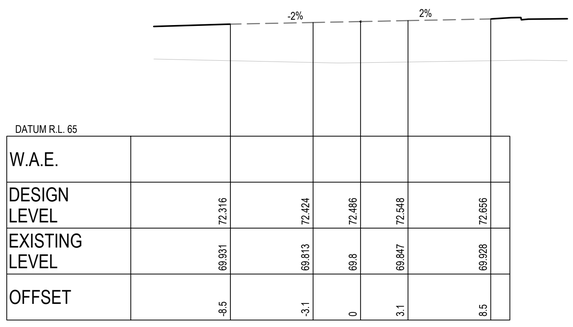
CH 15



DATUM R.L. 65

W.A.E.						
DESIGN LEVEL	70.853	70.961	71.023	71.085	71.193	
EXISTING LEVEL	69.453	69.422	69.404	69.385	69.521	
OFFSET	-8.5	-3.1	0	3.1	8.5	

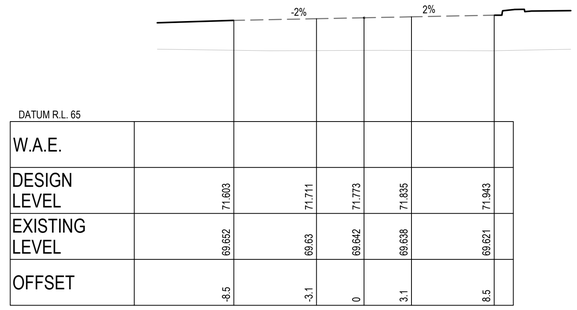
CH 45



DATUM R.L. 65

W.A.E.						
DESIGN LEVEL	72.316	72.424	72.486	72.548	72.656	
EXISTING LEVEL	69.931	69.813	69.8	69.847	69.928	
OFFSET	-8.5	-3.1	0	3.1	8.5	

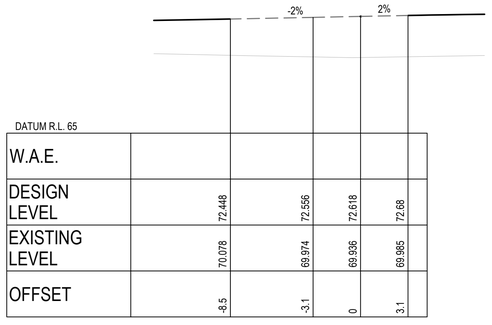
CH 12.644



DATUM R.L. 65

W.A.E.						
DESIGN LEVEL	71.603	71.711	71.773	71.835	71.943	
EXISTING LEVEL	69.652	69.63	69.642	69.638	69.621	
OFFSET	-8.5	-3.1	0	3.1	8.5	

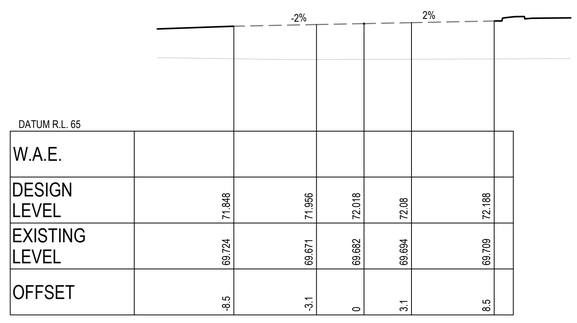
CH 30



DATUM R.L. 65

W.A.E.						
DESIGN LEVEL	72.448	72.556	72.618	72.68		
EXISTING LEVEL	70.078	69.974	69.936	69.985		
OFFSET	-8.5	-3.1	0	3.1		

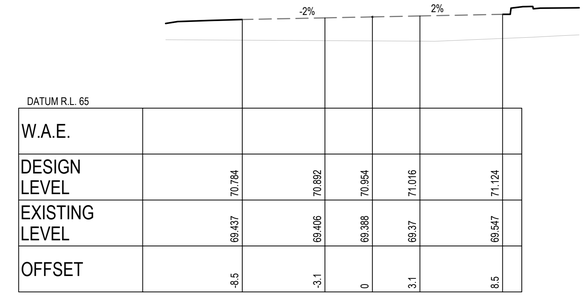
CH 5.1



DATUM R.L. 65

W.A.E.						
DESIGN LEVEL	71.848	71.956	72.018	72.08	72.188	
EXISTING LEVEL	69.724	69.671	69.682	69.694	69.709	
OFFSET	-8.5	-3.1	0	3.1	8.5	

CH 25.1



DATUM R.L. 65

W.A.E.						
DESIGN LEVEL	70.784	70.892	70.954	71.016	71.124	
EXISTING LEVEL	69.437	69.406	69.388	69.37	69.547	
OFFSET	-8.5	-3.1	0	3.1	8.5	

CH 46.384

SPORTS ACCESS 2

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ROAD CROSS SECTIONS SHEET 34

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	383	B

NORTH

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

25/02/2025

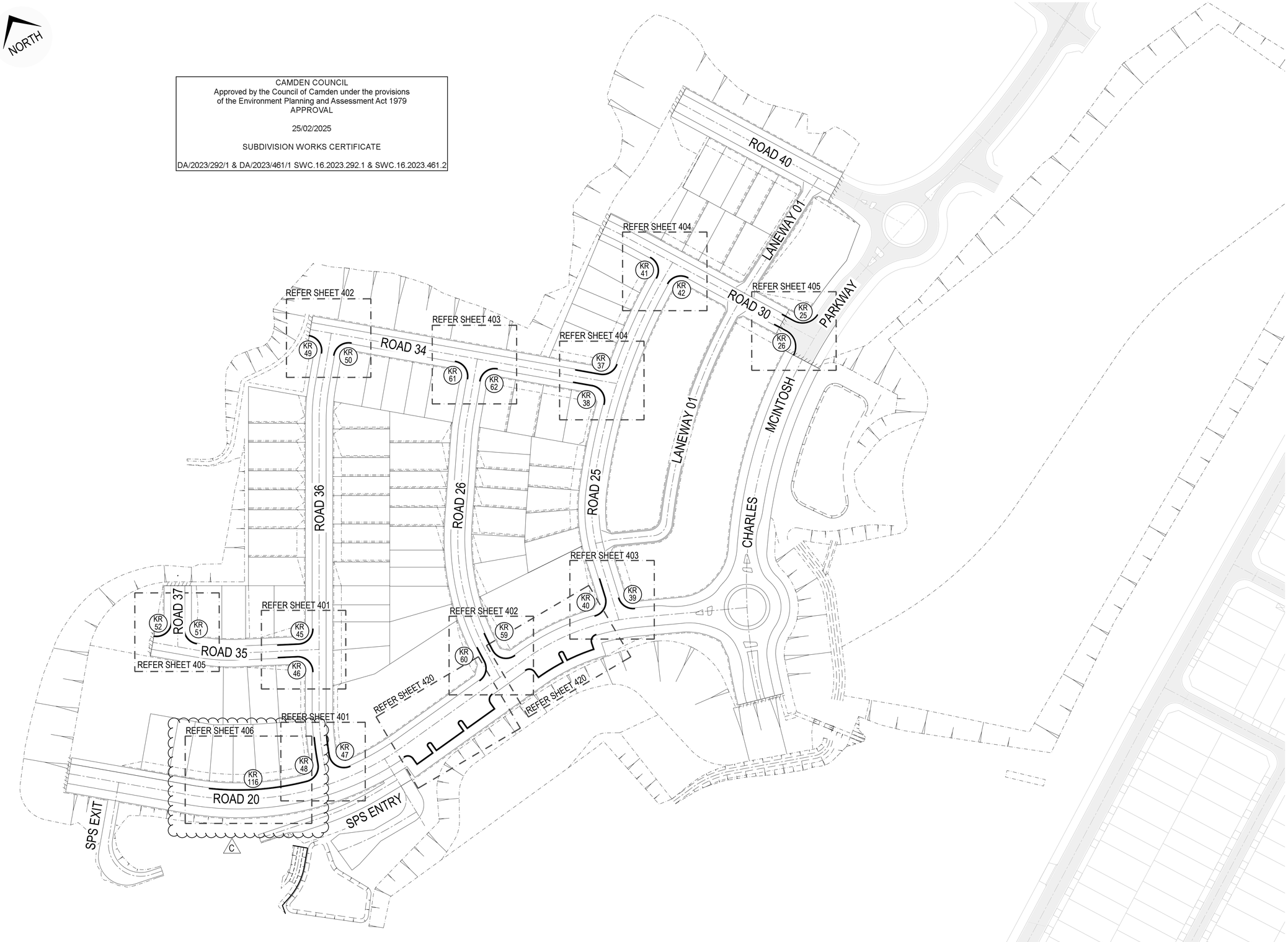
SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

NOTE:

- KERB RETURNS ARE SET OUT TO THE LIP OF GUTTER.

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

Scale:
0 10 20 30 40 50 60 70 80 90 100
SCALE 1:1000 (A1) SCALE 1:2000 (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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

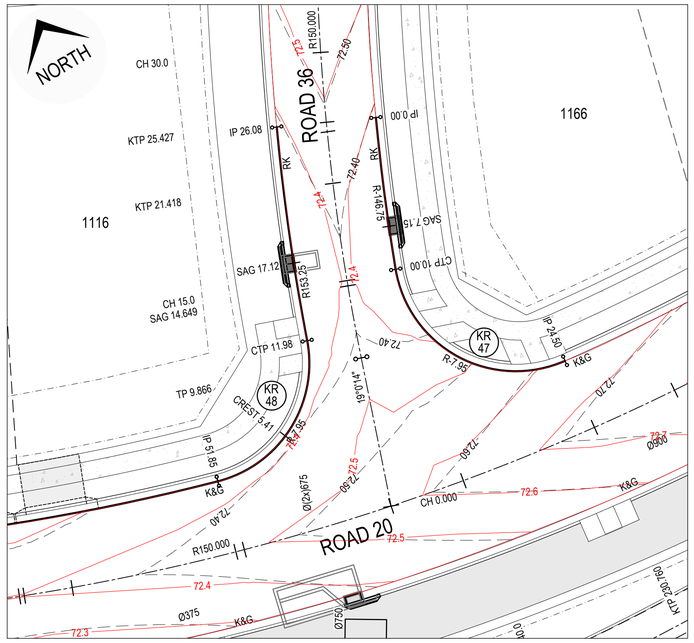
Title: KERB RETURN LOCALITY PLAN

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	400	C

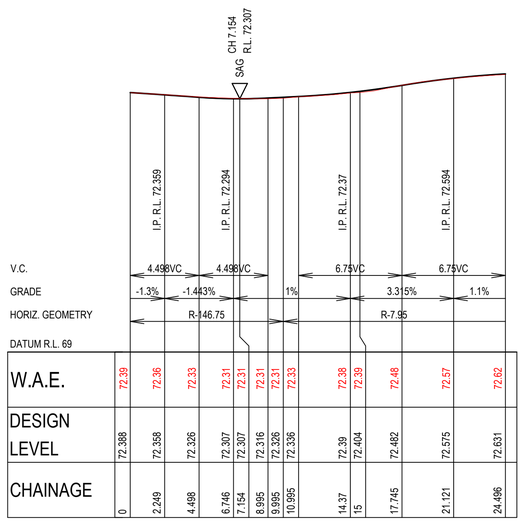
NOTE:

- KERB RETURNS ARE SET OUT TO THE LIP OF GUTTER.
- FOR KERB RETURN LOCALITY PLAN REFER TO SHEET SWC 400.

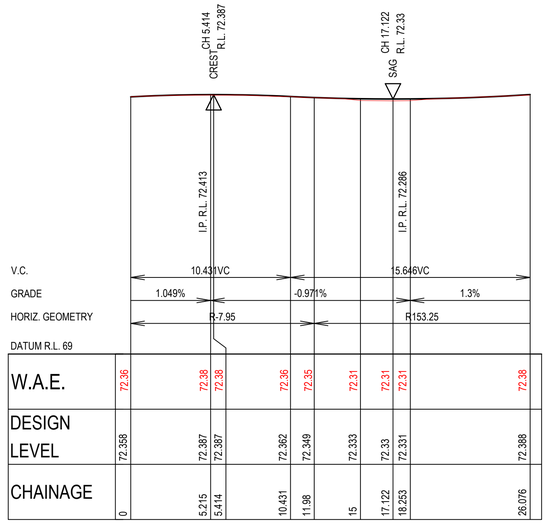
WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



KERB RETURN PLAN - KR 47 & KR 48
SCALE 1:200



KERB RETURN KR 47
SCALE 1:200 (H)
SCALE 1:40 (V)



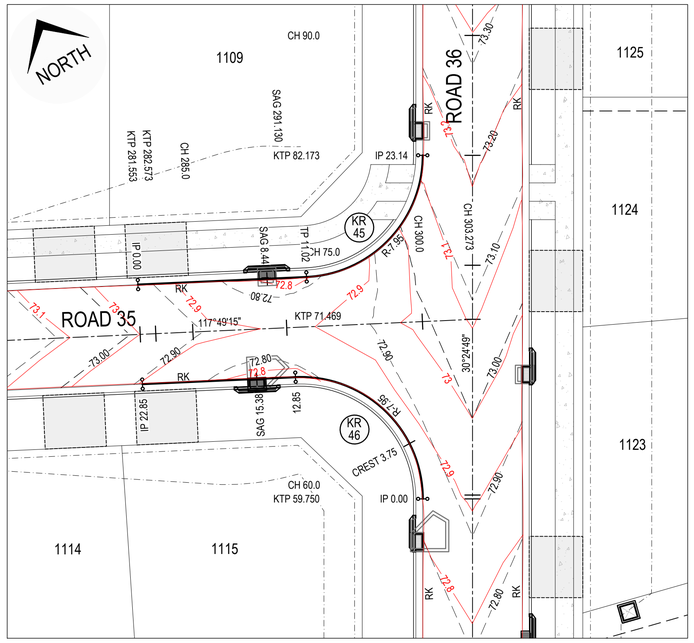
KERB RETURN KR 48
SCALE 1:200 (H)
SCALE 1:40 (V)

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

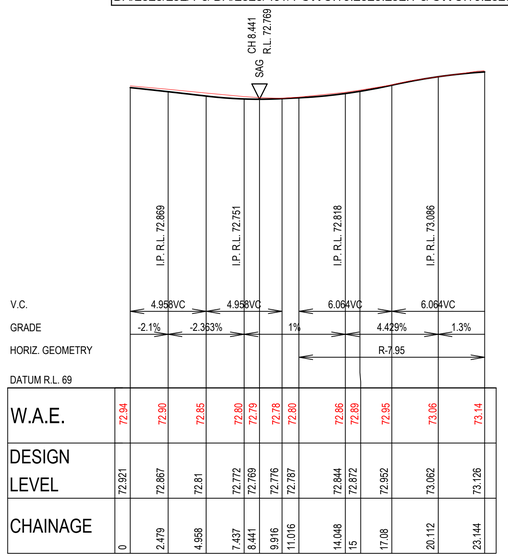
25/02/2025

SUBDIVISION WORKS CERTIFICATE

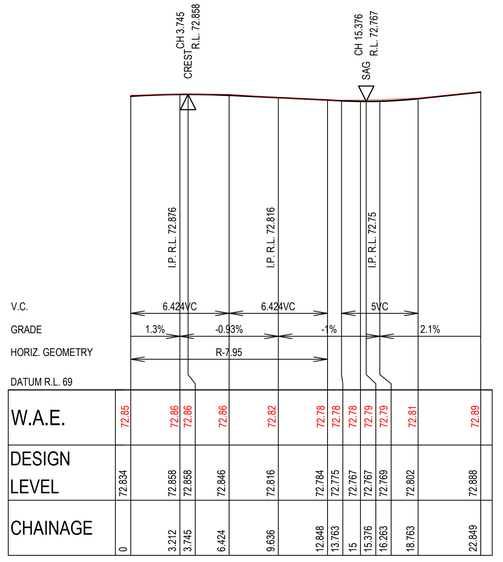
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



KERB RETURN PLAN - KR 45 & KR 46
SCALE 1:200



KERB RETURN KR 45
SCALE 1:200 (H)
SCALE 1:40 (V)



KERB RETURN KR 46
SCALE 1:200 (H)
SCALE 1:40 (V)

C *ROAD 20 KG AMENDED
*PRAM RAMP CHANGED TO SQUARE WINGS

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: KERB RETURN SETOUT PLANS & PROFILES SHEET 01

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	401	C

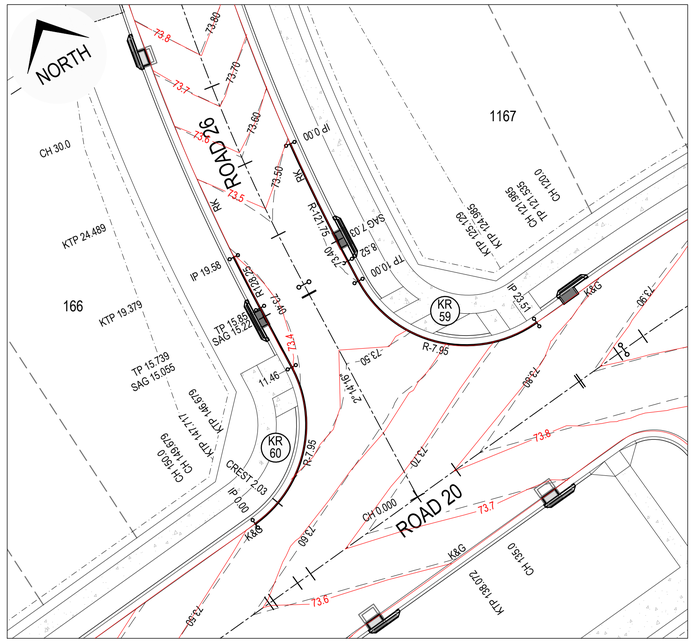
NOTE:

- KERB RETURNS ARE SET OUT TO THE LIP OF GUTTER.
- FOR KERB RETURN LOCALITY PLAN REFER TO SHEET SWC 400.

WORKS AS EXECUTED

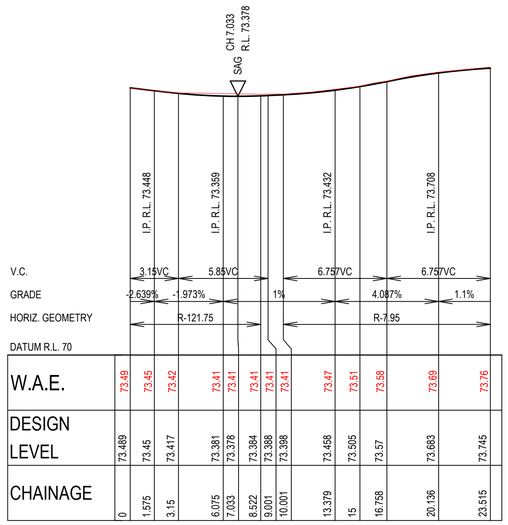
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP



KERB RETURN PLAN - KR 59 & KR 60

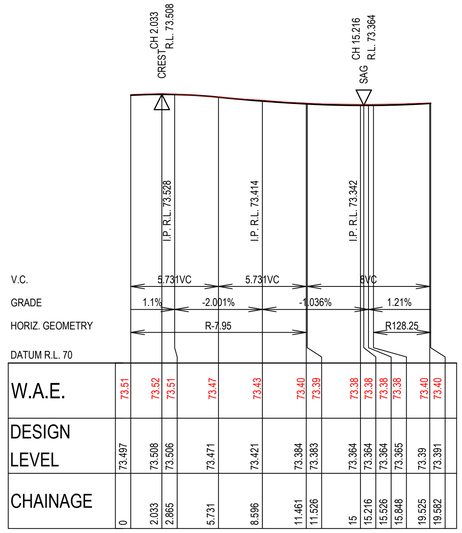
SCALE 1:200



W.A.E.	73.49	73.45	73.42	73.41	73.41	73.41	73.47	73.51	73.58	73.69	73.76
DESIGN LEVEL	73.489	73.45	73.417	73.381	73.378	73.384	73.388	73.398	73.458	73.505	73.57	73.683	73.745
CHAINAGE	0	1.575	3.15	6.075	7.033	8.522	9.001	10.001	13.379	15	16.758	20.136	23.515

KERB RETURN KR 59

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



W.A.E.	73.51	73.52	73.51	73.47	73.43	73.40	73.39	73.38	73.38	73.38	73.40	73.40
DESIGN LEVEL	73.497	73.508	73.506	73.471	73.421	73.384	73.383	73.364	73.364	73.364	73.365	73.39	73.391
CHAINAGE	0	2.033	2.865	5.731	8.596	11.461	11.526	15	15.216	15.526	15.848	19.525	19.582

KERB RETURN KR 60

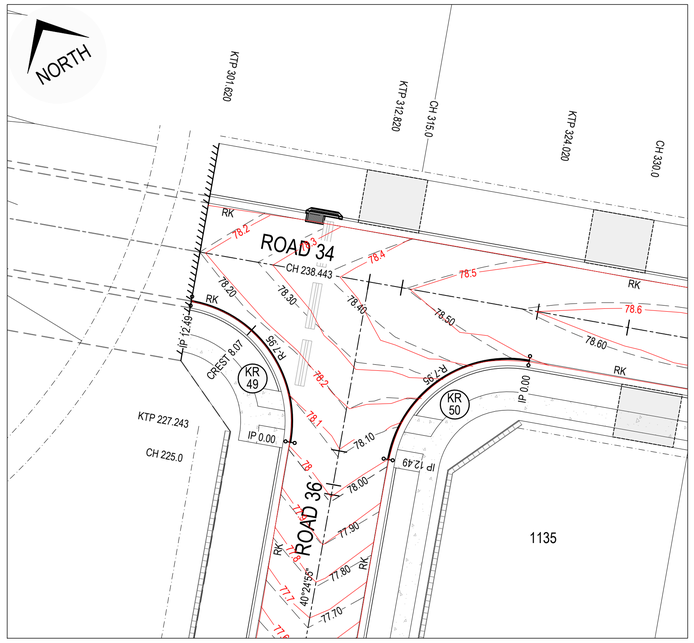
SCALE 1:200 (H)
SCALE 1:40 (V)

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

25/02/2025

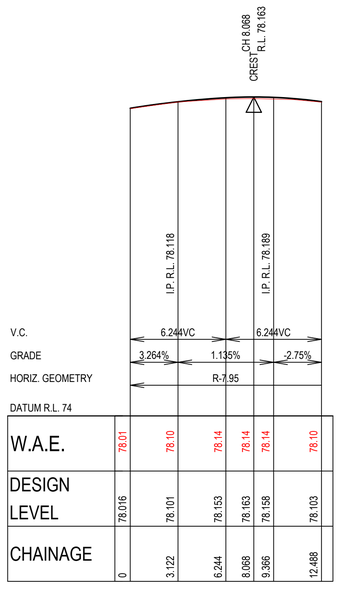
SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



KERB RETURN PLAN - KR 49 & KR 50

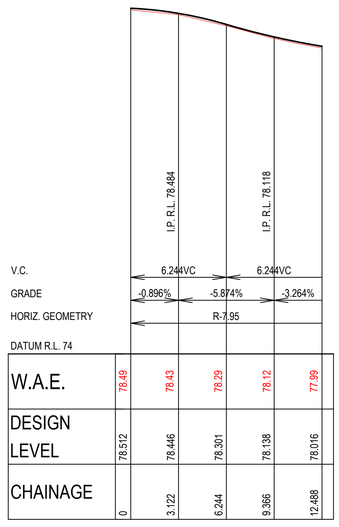
SCALE 1:200



W.A.E.	78.01	78.10	78.14	78.14	78.14	78.10
DESIGN LEVEL	78.016	78.101	78.153	78.163	78.158	78.103
CHAINAGE	0	3.122	6.244	8.068	9.366	12.488

KERB RETURN KR 49

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



W.A.E.	78.49	78.43	78.29	78.12	77.99
DESIGN LEVEL	78.512	78.446	78.301	78.138	78.016
CHAINAGE	0	3.122	6.244	9.366	12.488

KERB RETURN KR 50

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

C *ROAD 20 KG AMENDED
*PRAM RAMP CHANGED TO SQUARE WINGS

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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@theorionsgroup.au

Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: KERB RETURN SETOUT PLANS & PROFILES SHEET 02

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	402	C

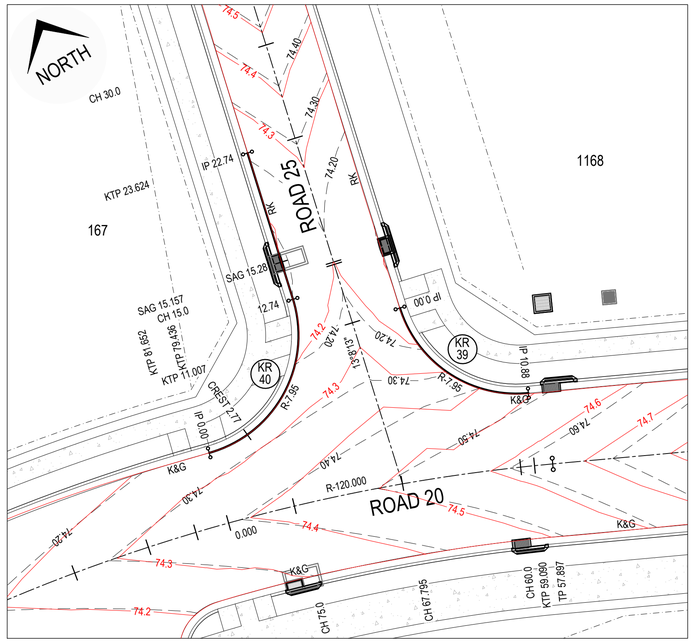
NOTE:

- KERB RETURNS ARE SET OUT TO THE LIP OF GUTTER.
- FOR KERB RETURN LOCALITY PLAN REFER TO SHEET SWC 400.

WORKS AS EXECUTED

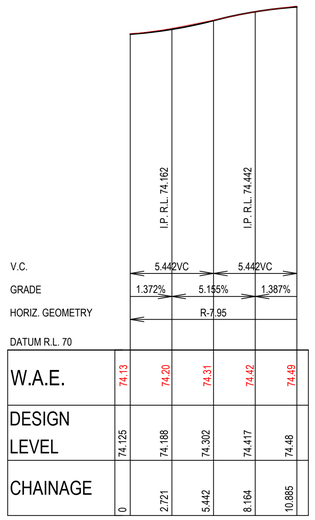
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP



KERB RETURN PLAN - KR 39 & KR 40

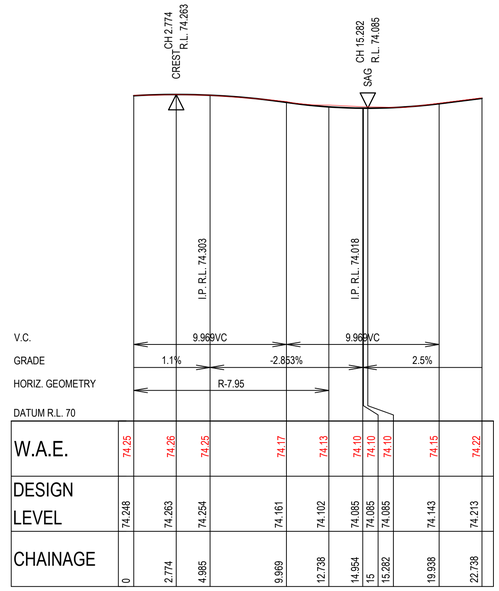
SCALE 1:200



W.A.E.	74.13	74.20	74.31	74.42	74.49
DESIGN LEVEL	74.125	74.188	74.302	74.417	74.48
CHAINAGE	0	2.721	5.442	8.164	10.885

KERB RETURN KR 39

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



W.A.E.	74.25	74.26	74.26	74.17	74.13	74.10	74.10	74.15	74.22
DESIGN LEVEL	74.248	74.263	74.254	74.161	74.102	74.085	74.085	74.143	74.213
CHAINAGE	0	2.774	4.985	9.969	12.738	14.954	15	19.938	22.738

KERB RETURN KR 40

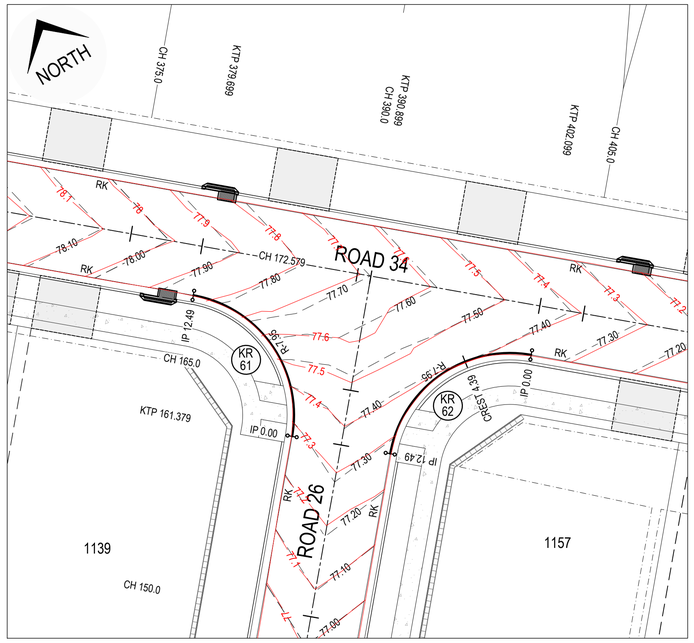
SCALE 1:200 (H)
SCALE 1:40 (V)

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

25/02/2025

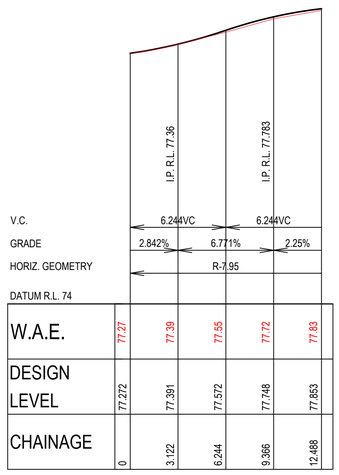
SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



KERB RETURN PLAN - KR 61 & KR 62

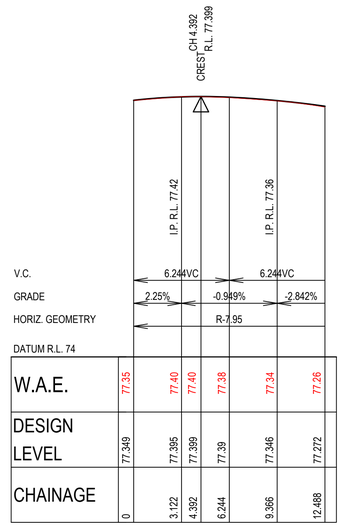
SCALE 1:200



W.A.E.	77.27	77.39	77.55	77.72	77.83
DESIGN LEVEL	77.272	77.391	77.572	77.748	77.853
CHAINAGE	0	3.122	6.244	9.366	12.488

KERB RETURN KR 61

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



W.A.E.	77.35	77.40	77.40	77.38	77.34	77.26
DESIGN LEVEL	77.349	77.395	77.399	77.39	77.346	77.272
CHAINAGE	0	3.122	4.392	6.244	9.366	12.488

KERB RETURN KR 62

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

C *ROAD 20 KG AMENDED
*PRAM RAMP CHANGED TO SQUARE WINGS

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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@theorionngroup.au

Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: KERB RETURN SETOUT PLANS & PROFILES SHEET 03

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	403	C

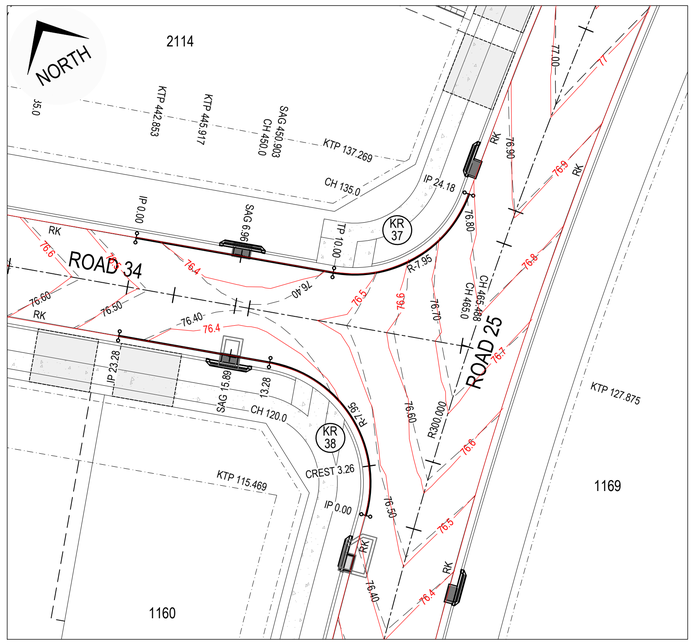
NOTE:

- KERB RETURNS ARE SET OUT TO THE LIP OF GUTTER.
- FOR KERB RETURN LOCALITY PLAN REFER TO SHEET SWC 400.

WORKS AS EXECUTED

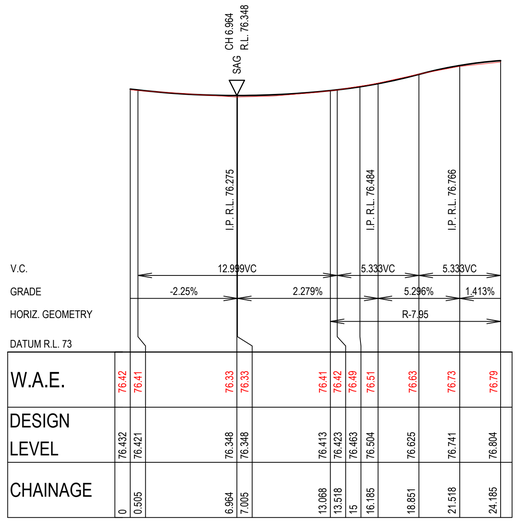
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP



KERB RETURN PLAN - KR 37 & KR 38

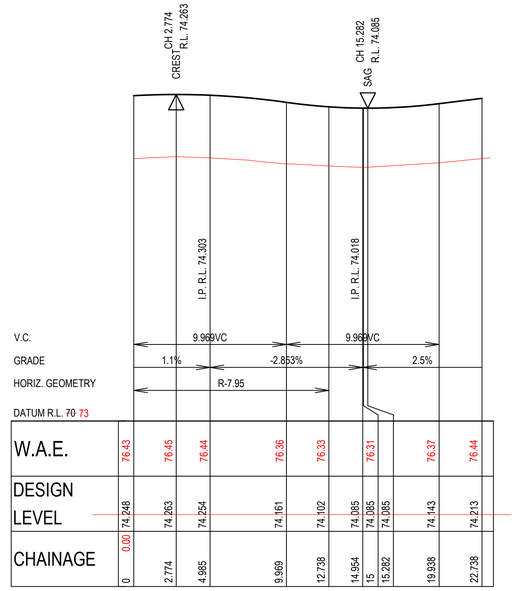
SCALE 1:200



W.A.E.	76.42	76.41	76.33	76.33	76.41	76.42	76.49	76.51	76.63	76.73	76.79
DESIGN LEVEL	76.432	76.421	76.348	76.348	76.413	76.423	76.463	76.504	76.625	76.741	76.804
CHAINAGE	0	0.505	6.964	7.005	13.068	13.518	15	16.185	18.851	21.518	24.185

KERB RETURN KR 37

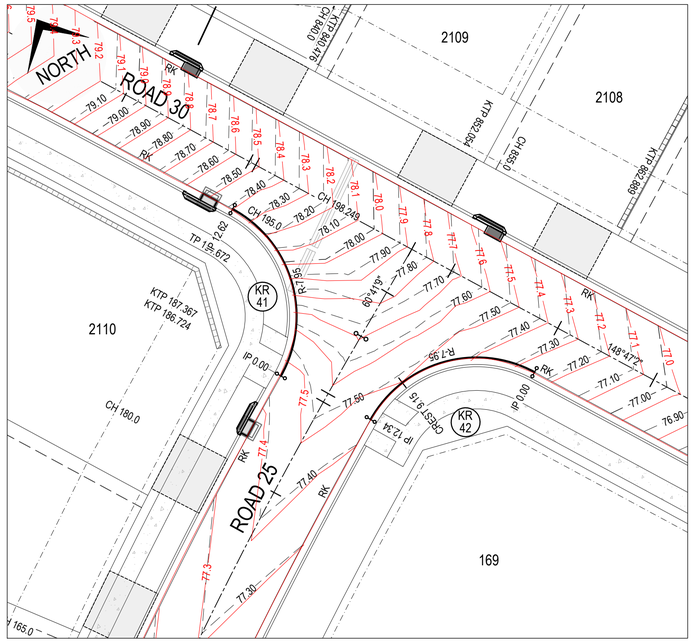
SCALE 1:200 (H)
SCALE 1:40 (V)



W.A.E.	76.43	76.45	76.44	76.36	76.33	76.31	76.37	76.44
DESIGN LEVEL	74.248	74.263	74.254	74.161	74.102	74.085	74.085	74.143	74.213
CHAINAGE	0	0.00	2.774	4.985	9.969	12.738	14.954	15	15.282	19.938	22.738

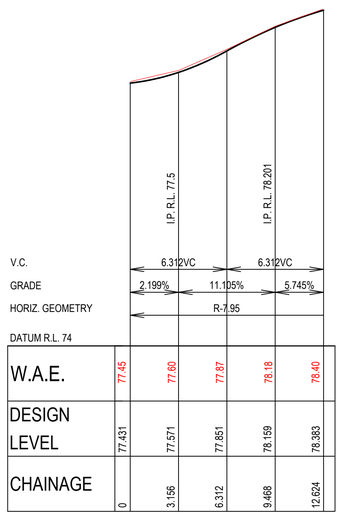
KERB RETURN KR 40

SCALE 1:200 (H) KR 38
SCALE 1:40 (V)



KERB RETURN PLAN - KR 41 & KR 42

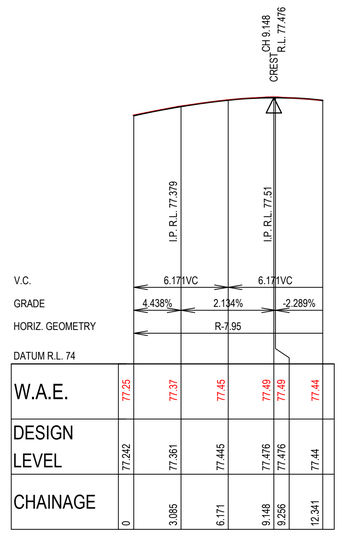
SCALE 1:200



W.A.E.	77.45	77.60	77.87	78.18	78.40
DESIGN LEVEL	77.431	77.571	77.851	78.159	78.383
CHAINAGE	0	3.156	6.312	9.468	12.624

KERB RETURN KR 41

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



W.A.E.	77.25	77.37	77.45	77.49	77.49	77.44
DESIGN LEVEL	77.242	77.361	77.445	77.476	77.476	77.44
CHAINAGE	0	3.085	6.171	9.148	9.256	12.341

KERB RETURN KR 42

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

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

C *ROAD 20 KG AMENDED
*PRAM RAMP CHANGED TO SQUARE WINGS

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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@theorionsgroup.au

Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

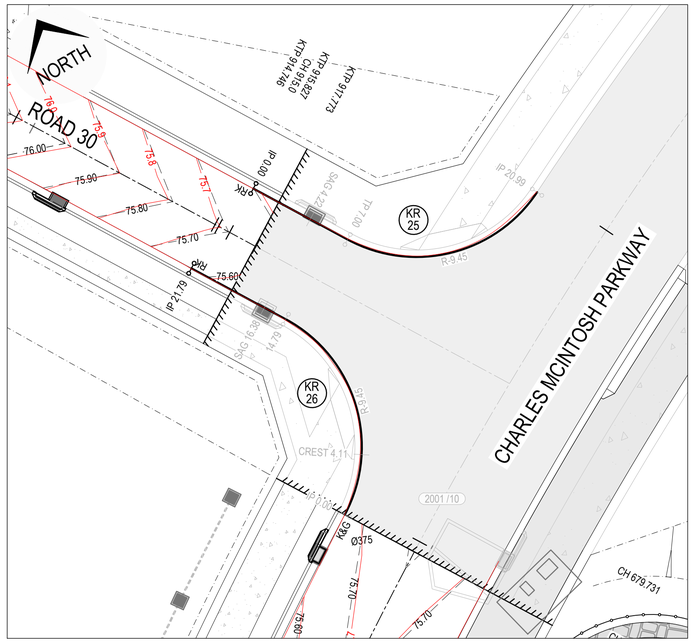
Title: KERB RETURN SETOUT PLANS & PROFILES SHEET 04

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	404	C

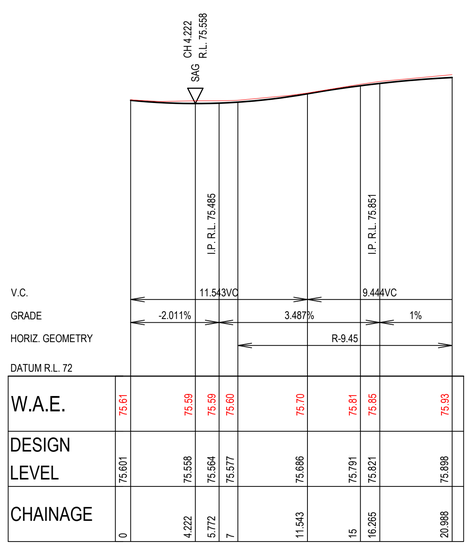
NOTE:

- KERB RETURNS ARE SET OUT TO THE LIP OF GUTTER.
- FOR KERB RETURN LOCALITY PLAN REFER TO SHEET SWC 400.

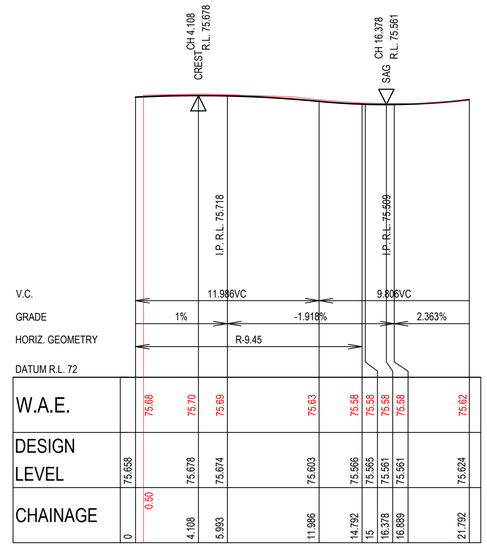
WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



KERB RETURN PLAN - KR 25 & 26
SCALE 1:200



KERB RETURN KR 25
SCALE 1:200 (H)
SCALE 1:40 (V)



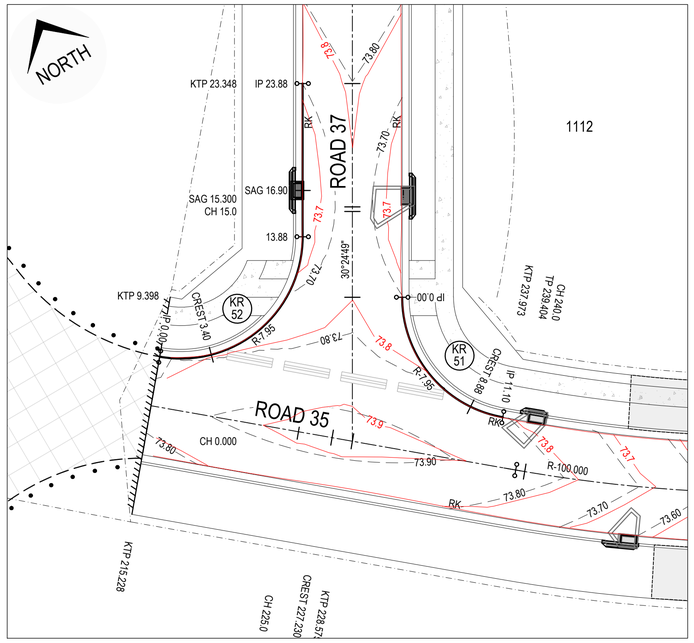
KERB RETURN KR 26
SCALE 1:200 (H)
SCALE 1:40 (V)

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

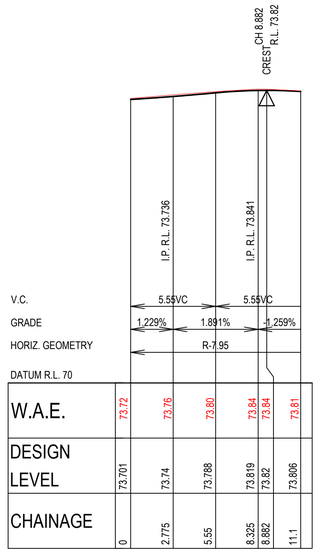
25/02/2025

SUBDIVISION WORKS CERTIFICATE

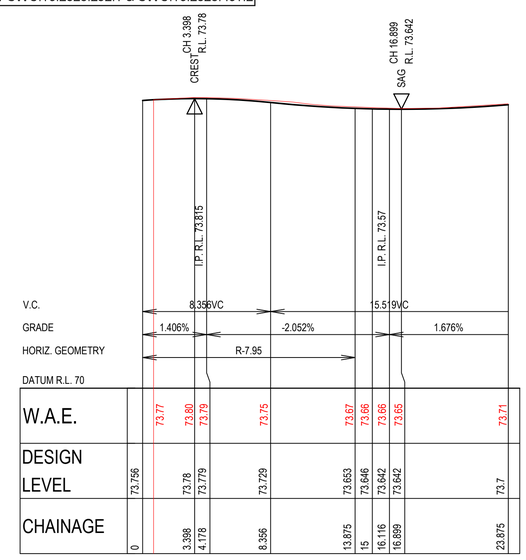
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



KERB RETURN PLAN - KR 51 & 52
SCALE 1:200



KERB RETURN KR 51
SCALE 1:200 (H)
SCALE 1:40 (V)



KERB RETURN KR 52
SCALE 1:200 (H)
SCALE 1:40 (V)

C *ROAD 20 KG AMENDED
*PRAM RAMP CHANGED TO SQUARE WINGS

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

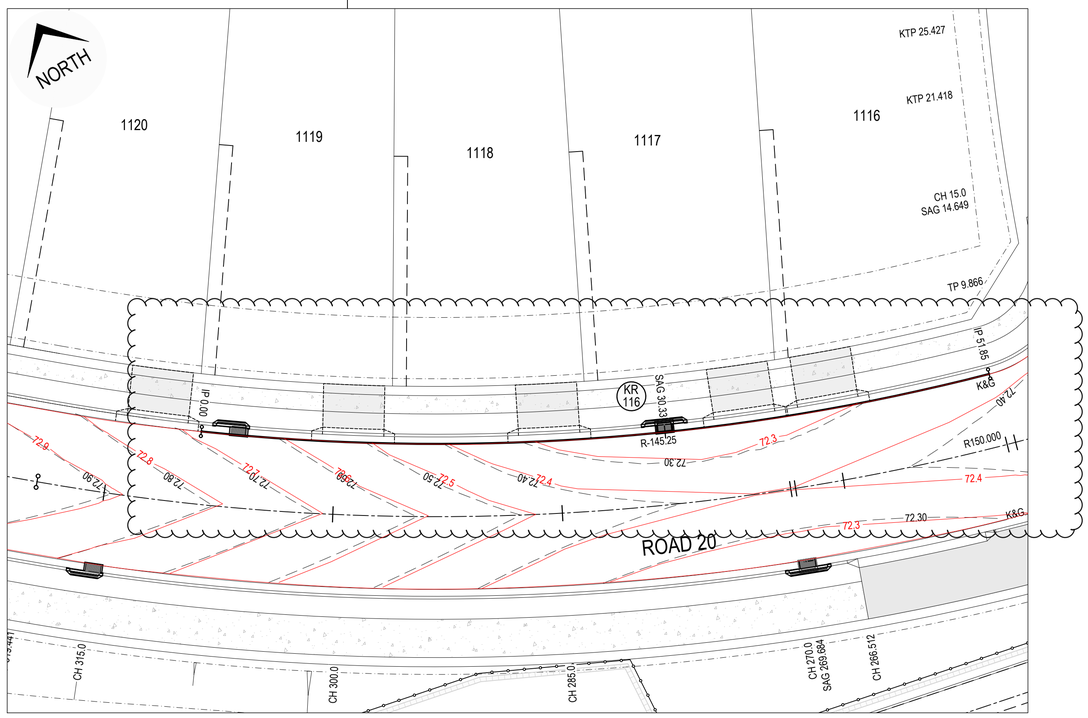
Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title: KERB RETURN SETOUT PLANS & PROFILES SHEET 05

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	405	C

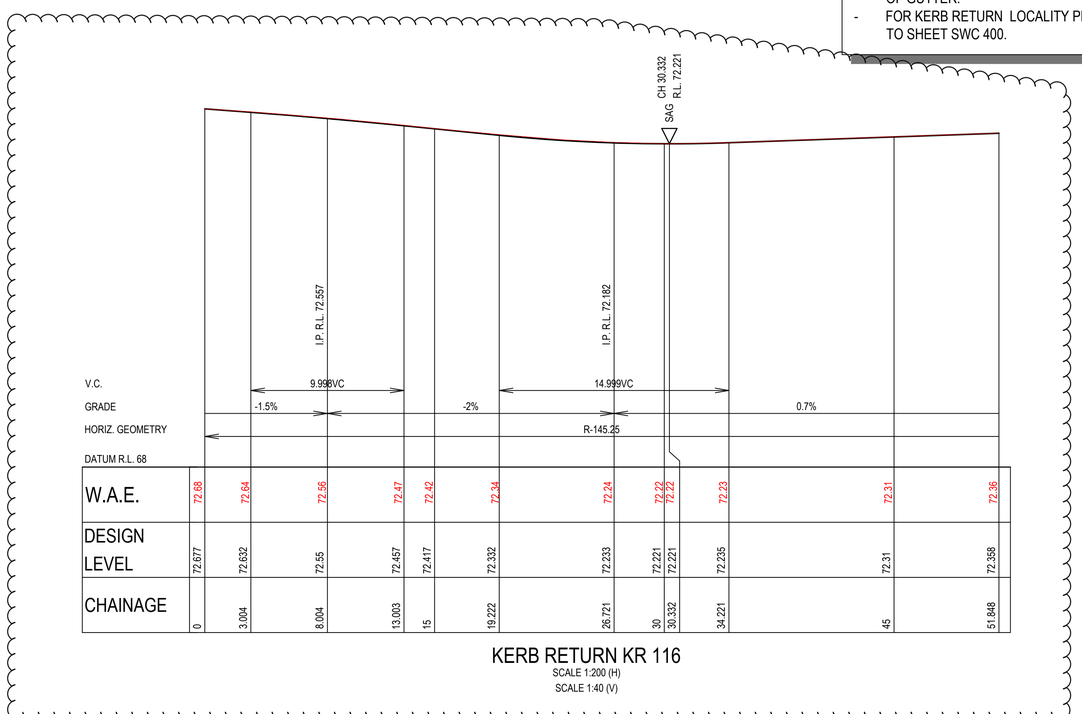
NOTE:

- KERB RETURNS ARE SET OUT TO THE LIP OF GUTTER.
- FOR KERB RETURN LOCALITY PLAN REFER TO SHEET SWC 400.



KERB RETURN PLAN - KR 116

SCALE 1:200



W.A.E.	72.68	72.64	72.56	72.47	72.42	72.34	72.24	72.22	72.22	72.23	72.31	72.36		
DESIGN LEVEL	72.677	72.632	72.55	72.457	72.417	72.332	72.233	72.221	72.221	72.235	72.31	72.358		
CHAINAGE	0	3.004	8.004	13.003	15	19.222	26.721	30	30.332	34.221	45	51.848		

KERB RETURN KR 116

SCALE 1:200 (H)

SCALE 1:40 (V)

C

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
						NOT ISSUED

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

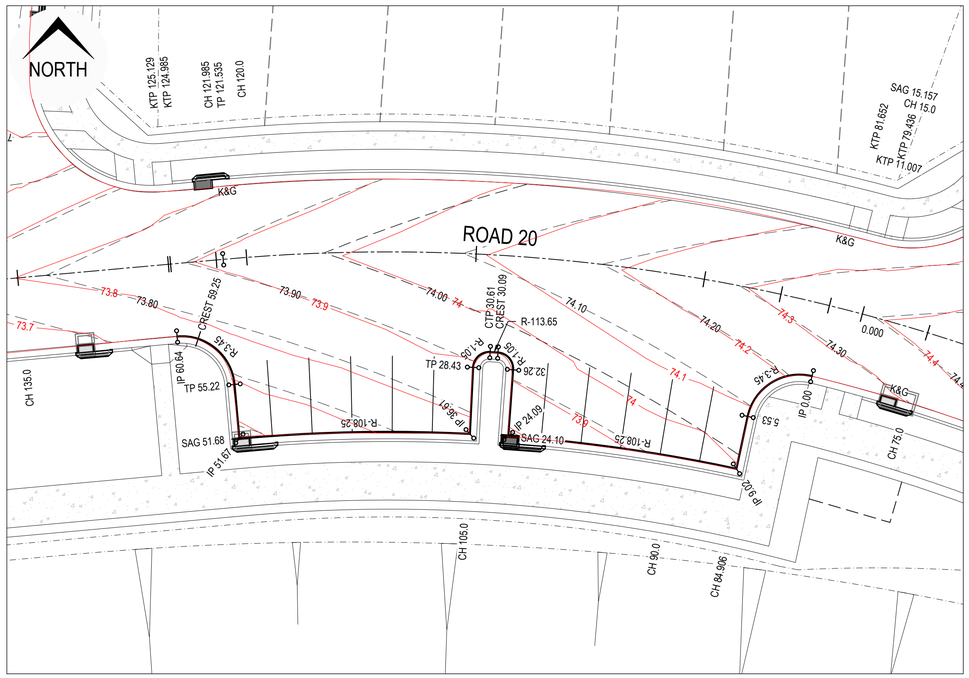
Title: KERB RETURN SETOUT PLANS & PROFILES SHEET 06

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	406	C

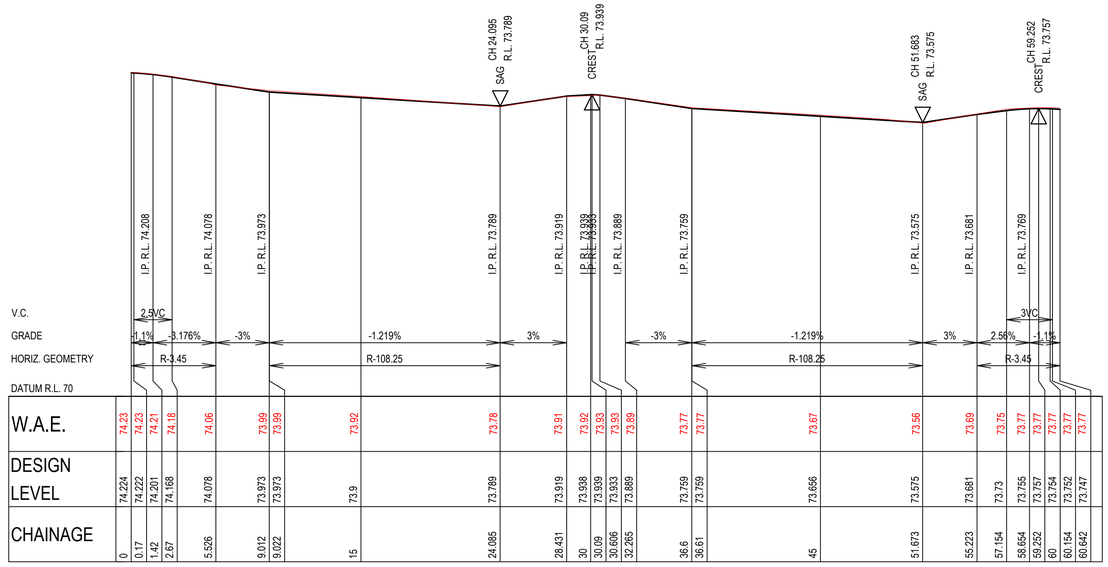
NOTE:

- KERB RETURNS ARE SET OUT TO THE LIP OF GUTTER.

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



KERB RETURN PLAN - CARPARK 1
SCALE 1:200



KERB RETURN ORANGE CARPARK 1
SCALE 1:200 (H)
SCALE 1:40 (V)

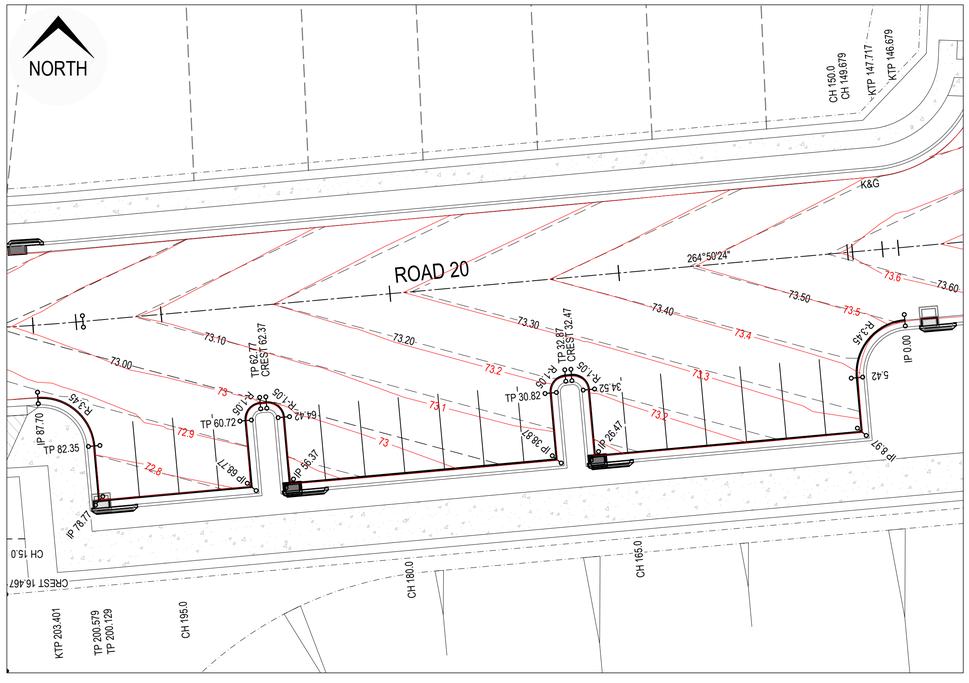
CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL

25/02/2025

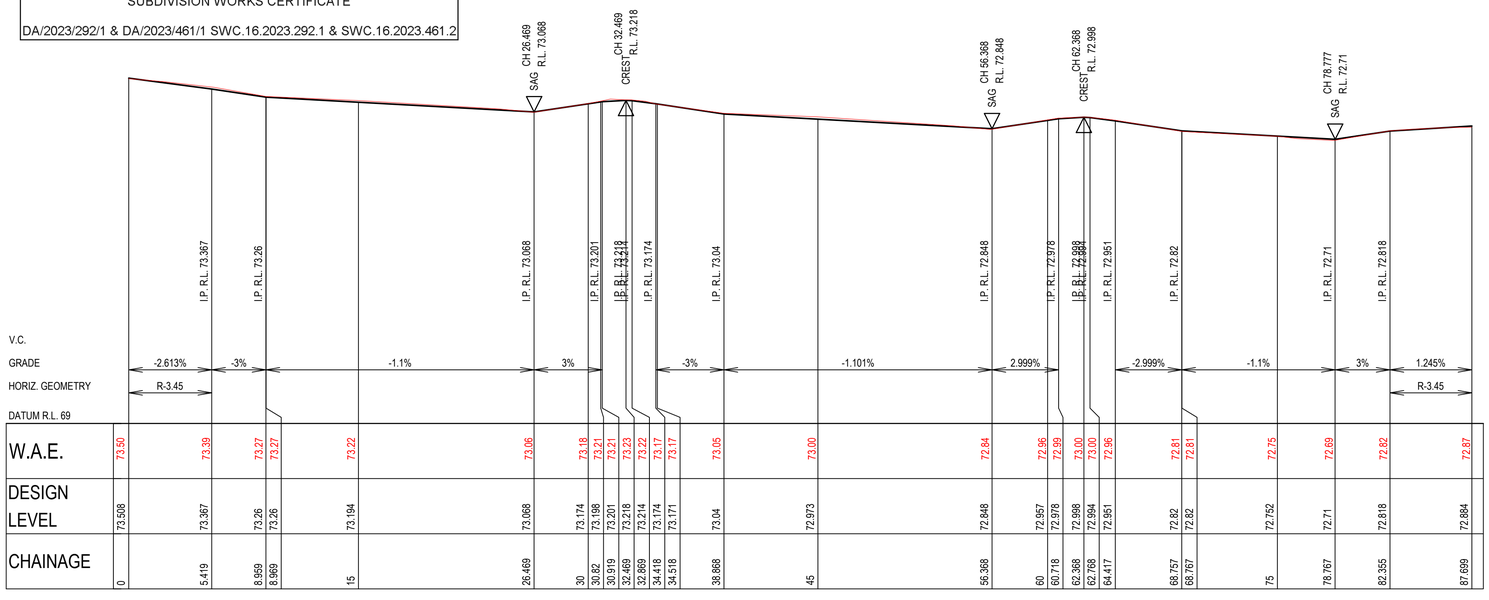
SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

C *ROAD 20 KG AMENDED
*PRAM RAMP CHANGED TO SQUARE WINGS



KERB RETURN PLAN - CARPARK 2
SCALE 1:200



KERB RETURN ORANGE CARPARK 2
SCALE 1:200 (H)
SCALE 1:40 (V)

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: STREET PARKING SETOUT PLANS & PROFILES

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	420	C

NORTH

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
D	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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@theorionngroup.au

Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ROUNDABOUT SPLITTER ISLAND PLAN

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	440	D

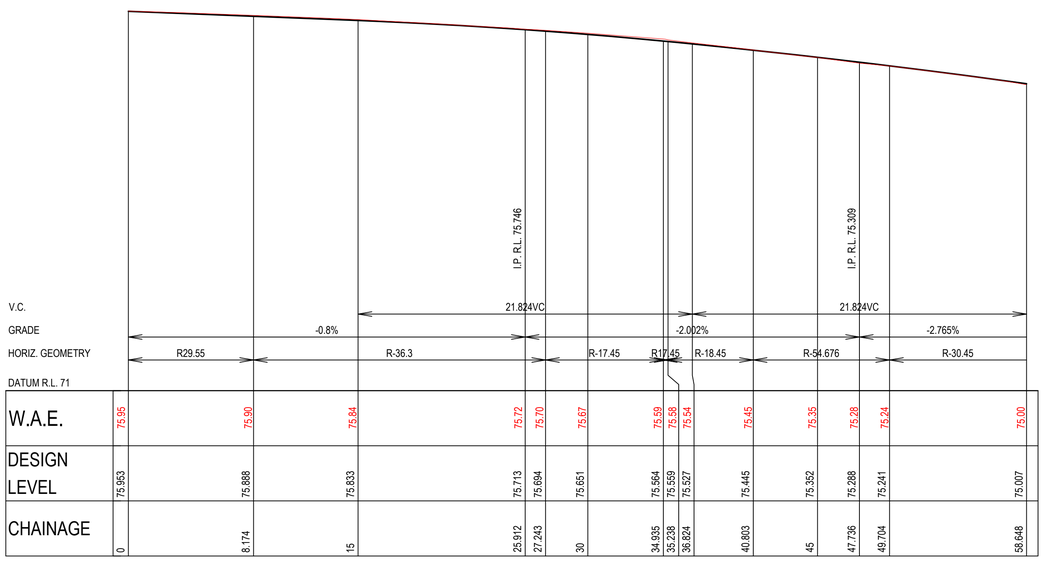
WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP

NOTE:

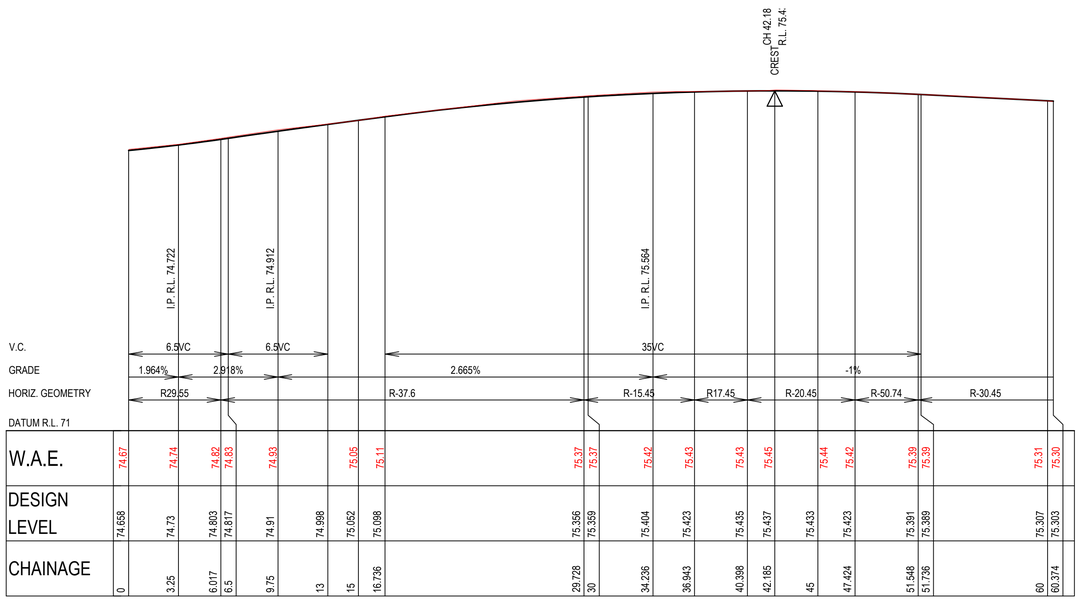
- KERB RETURNS ARE SET OUT TO THE LIP OF GUTTER.
- MOUNTABLE KERBS ARE SET OUT TO THE NOMINAL KERB LINE.



W.A.E.	75.95	75.90	75.84	75.72	75.70	75.67	75.69	75.58	75.54	75.45	75.35	75.28	75.24	75.00
DESIGN LEVEL	75.953	75.888	75.833	75.713	75.694	75.651	75.564	75.559	75.527	75.445	75.352	75.288	75.241	75.007
CHAINAGE	0	8.174	15	25.912	27.243	30	34.935	35.238	36.824	40.803	45	47.736	49.704	56.648

KERB RETURN RAB3 KR01

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



W.A.E.	74.67	74.74	74.82	74.83	74.93	75.05	75.11	75.37	75.37	75.42	75.43	75.43	75.45	75.44	75.42	75.39	75.39	75.31	75.30
DESIGN LEVEL	74.658	74.73	74.803	74.817	74.91	74.998	75.052	75.098	75.356	75.359	75.404	75.423	75.435	75.437	75.433	75.423	75.391	75.389	75.307	75.303
CHAINAGE	0	3.25	6.017	6.5	9.75	13	15	16.736	29.728	30	34.236	36.943	40.398	42.185	45	47.424	51.548	51.736	60	60.374

KERB RETURN RAB3 KR02

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

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

25/02/2025

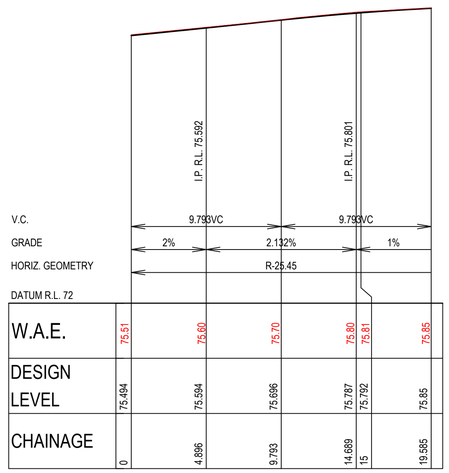
SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

W.A.E.	75.10	75.17	75.29	75.35	75.36	75.41	75.41	75.41	75.41	75.36	75.33
DESIGN LEVEL	75.096	75.169	75.276	75.342	75.358	75.398	75.398	75.396	75.39	75.337	75.301
CHAINAGE	0	6.072	15	20.45	21.806	28.523	29.306	30	31.571	36.806	39.244

KERB RETURN RAB3 KR03

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



W.A.E.	75.51	75.60	75.70	75.80	75.81	75.85
DESIGN LEVEL	75.494	75.594	75.696	75.787	75.792	75.85
CHAINAGE	0	4.896	9.793	14.689	15	19.585

KERB RETURN RAB3 KR04

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

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

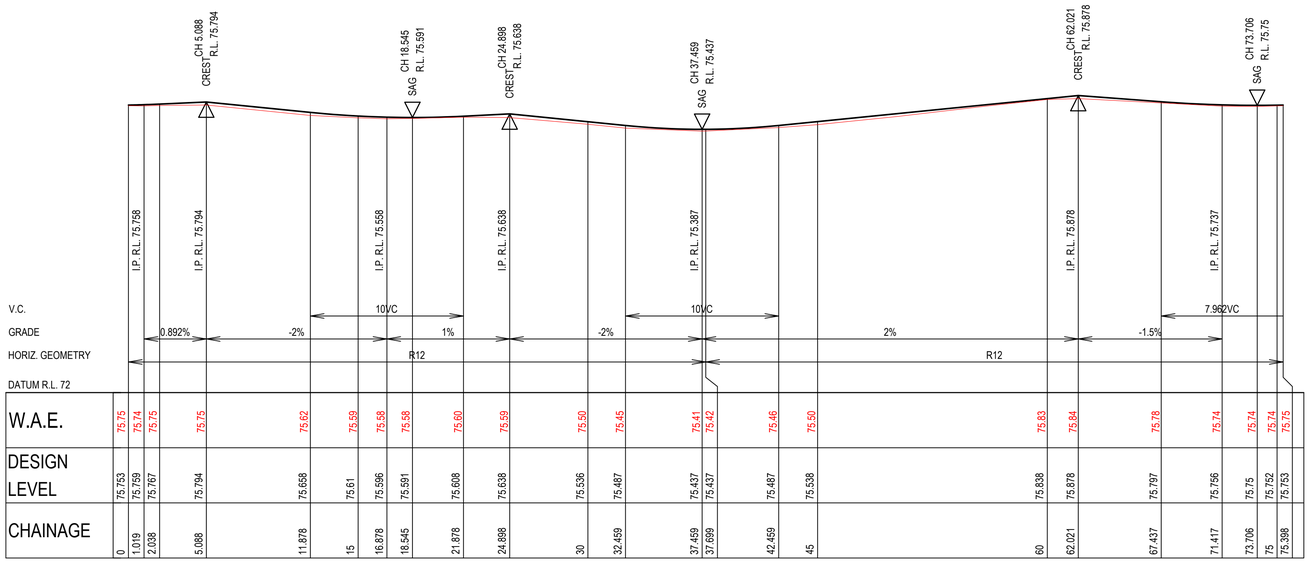
By: ORION

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

Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ROUNDABOUT SPLITTER ISLAND PROFILES SHEET 01

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	441	B



KERB RETURN RAB3 CL01

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

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP

NOTE:
- KERB RETURNS ARE SET OUT TO THE LIP OF GUTTER.
- MOUNTABLE KERBS ARE SET OUT TO THE NOMINAL KERB LINE.

CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL
25/02/2025
SUBDIVISION WORKS CERTIFICATE
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: ROUNDABOUT SPLITTER ISLAND PROFILES SHEET 02

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	442	B

NORTH

1168

KTP 59.090
TP 57.897
KTP 48.392
CH 45.0
KTP 33.632
CH 30.0
CH 15.0
CH 0.000
295°13'31"
R-0.60
R-1.20
SAG 5.10
TP 3.49
CREST 10.21
SAG 11.14
CREST 10.70
SAG 8.99
SAG 12.38
IP 8.42
TP 0.70
6.62
2.48
CREST 3.92
TP 6.01
R-0.30
SAG 9.16
R-0.25
IP 5.89
TP 5.42
CREST 3.39
R-0.23
IP 18.24
R-0.00
R-0.30
TP 8.40
CREST 14.70
CREST 5.27
2.71
R-1.27
SAG 1.13
TP 0.81
TP 6.40
SAG 13.26
CREST 11.27
R-0.30
6.77
SAG 13.68
SAG 8.78
R-0.60
CTP 5.28
CREST 4.91
TP 4.48
CREST 11.91
TP 41.143
CH 60.0
CH 75.0
R-1.500
36°34'30"
114°59'27"
TP 30.878
CH 30.0
CH 90.000
CH 495.0
KTP 492.863
CH 510.0
KTP 509.214
CH 525.0
KTP 526.530
KTP 527.135
CH 540.0
KTP 538.941
KTP 551.137
KTP 553.339
CH 555.0
CH 570.0
KTP 569.224
CH 585.0
KTP 583.614
CH 600.0
KTP 600.100
CH 615.0
CH 630.0
Ø(2x)1350
Ø450
Ø525
Ø375
R250.000
VC (HEAVY DUTY)
K&G
MK
KO
SI M01
SI M02
SI M03
SI M04
SI M05
SI M06

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
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
25/02/2025
SUBDIVISION WORKS CERTIFICATE
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
D	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

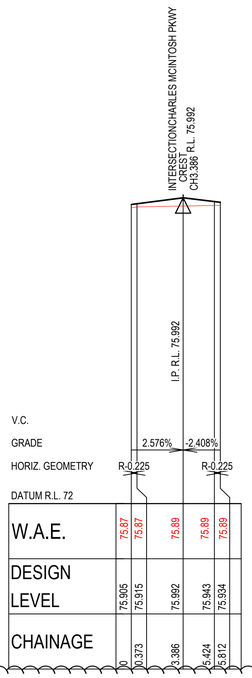
Title: SPLITTER ISLAND PLAN

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	450	D

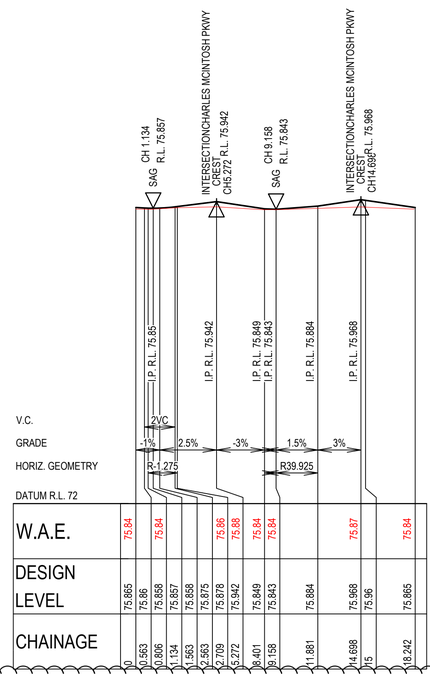
NOTE:

- KERB RETURNS ARE SET OUT TO THE LIP OF GUTTER.
- MOUNTABLE KERBS ARE SET OUT TO THE NOMINAL KERB LINE.

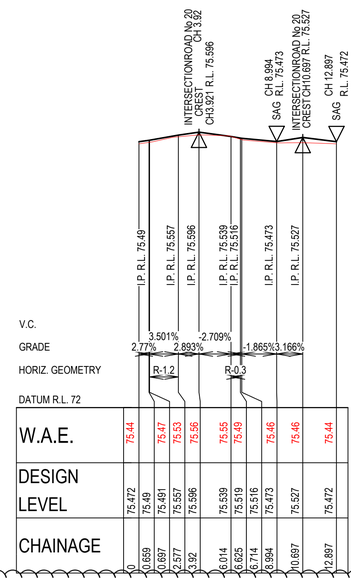
WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



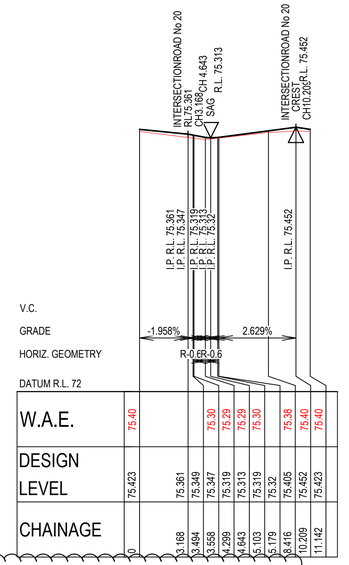
SPLITTER ISLAND PROFILE M01
SCALE 1:200 (H)
SCALE 1:40 (V)



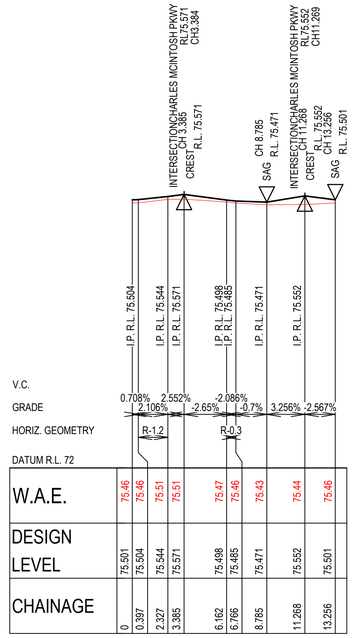
SPLITTER ISLAND PROFILE M02
SCALE 1:200 (H)
SCALE 1:40 (V)



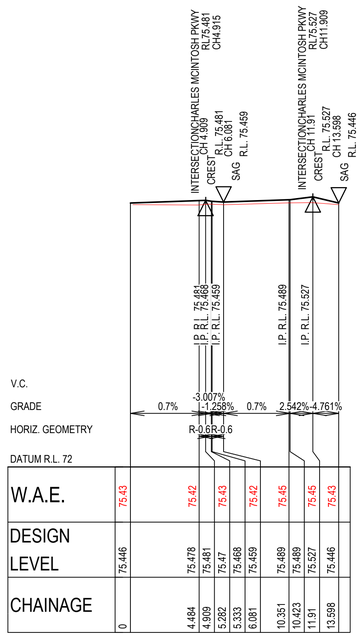
SPLITTER ISLAND PROFILE M03
SCALE 1:200 (H)
SCALE 1:40 (V)



SPLITTER ISLAND PROFILE M04
SCALE 1:200 (H)
SCALE 1:40 (V)



SPLITTER ISLAND PROFILE M05
SCALE 1:200 (H)
SCALE 1:40 (V)



SPLITTER ISLAND PROFILE M06
SCALE 1:200 (H)
SCALE 1:40 (V)

C

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

Scale:
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)
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)

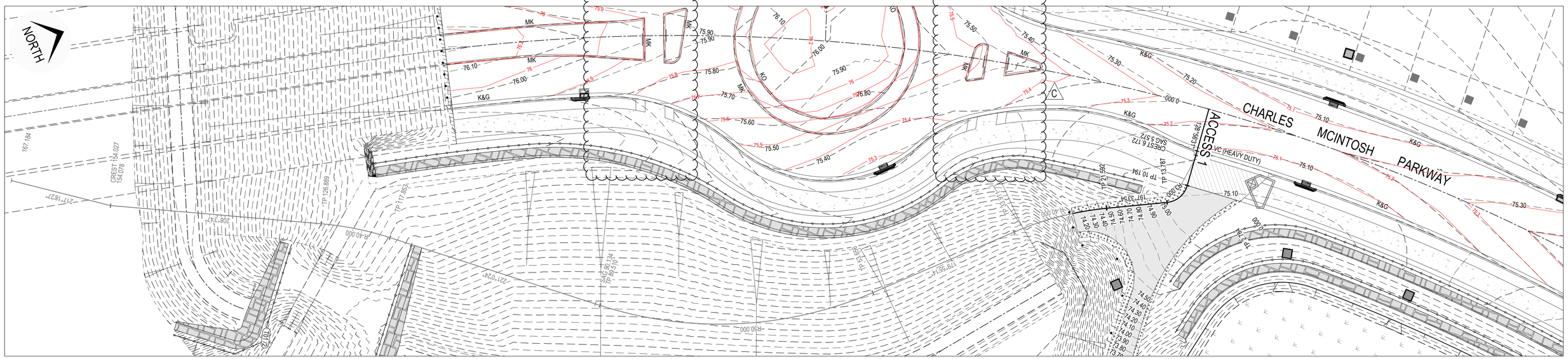
For: mirvac

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

Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

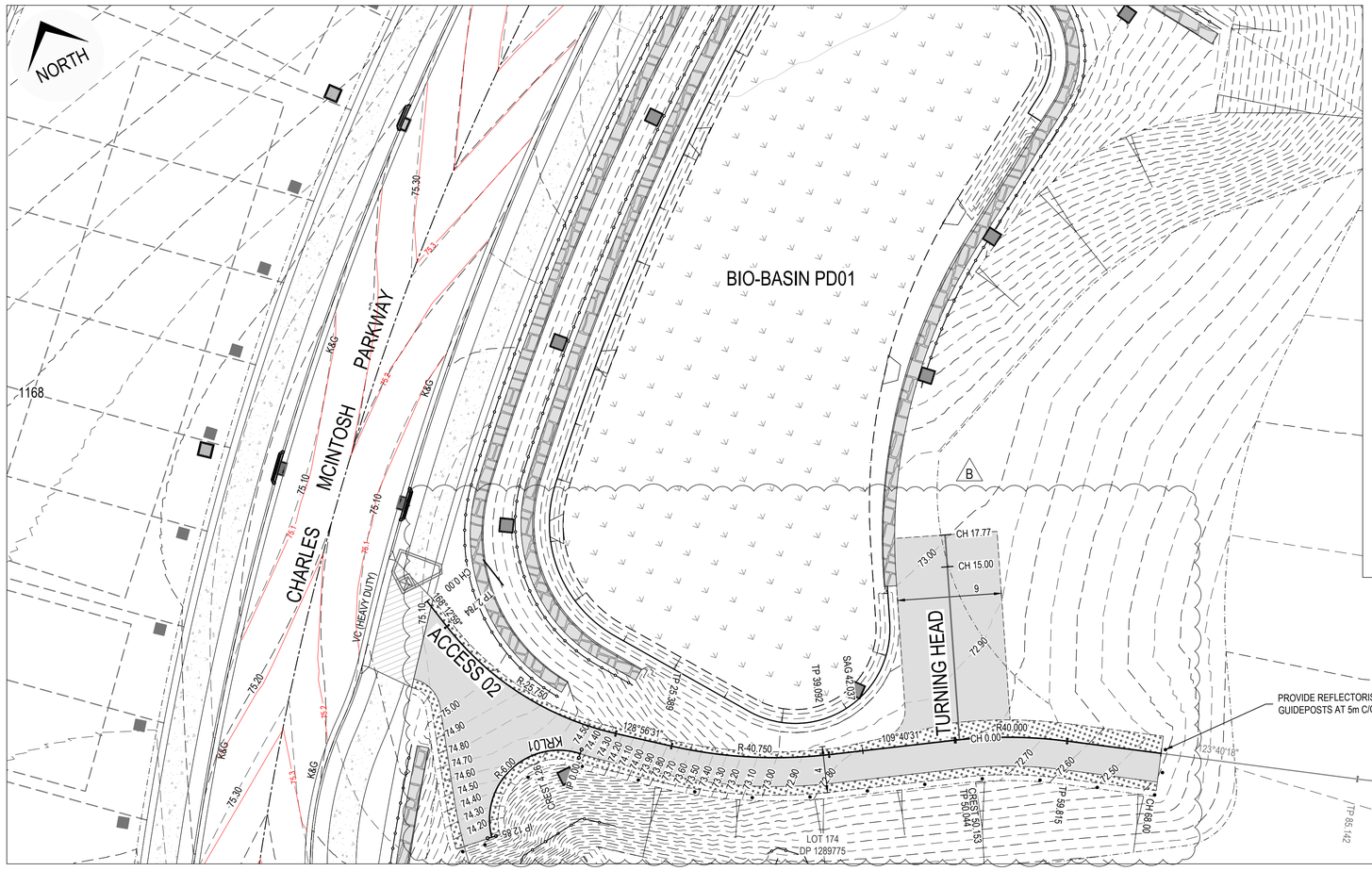
Title: SPLITTER ISLAND PROFILES

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	451	C



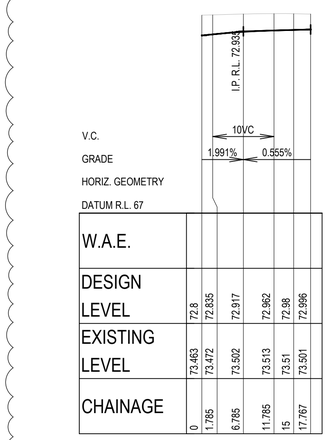
ACCESS 01 - PLAN

SCALE 1:250



ACCESS 02 & 03 & KRL01 - PLAN

SCALE 1:250



W.A.E.													
DESIGN LEVEL	72.8	72.835	72.917	72.962	72.98	72.996							
EXISTING LEVEL	73.463	73.472	73.502	73.513	73.51	73.501							
CHAINAGE	0	1.785	6.785	11.785	15	17.767							

LONGITUDINAL SECTION - TURNING HEAD

SCALE 1:500 (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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

B

SETOUT TABLE TURNING HEAD

CHAINAGE	EASTING	NORTHING	BEARING
0	288580.156	6234387.048	22°14'28.17"
17.767	288586.881	6234403.493	22°14'28.17"

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

Scale:
SCALE 1:100 (A1) SCALE 1:200 (A3)
SCALE 1:250 (A1) SCALE 1:500 (A3)
SCALE 1:500 (A1) SCALE 1:1000 (A3)

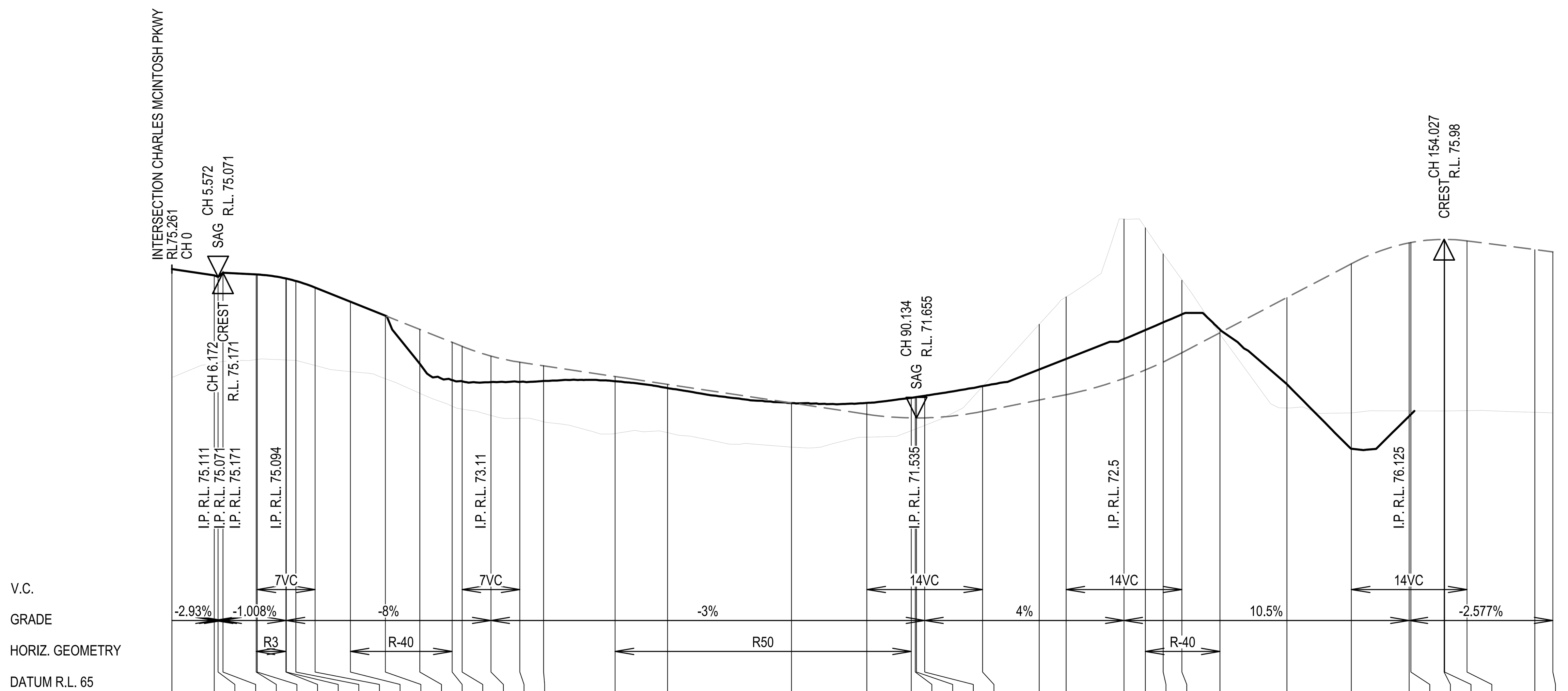
For: mirvac

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

Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

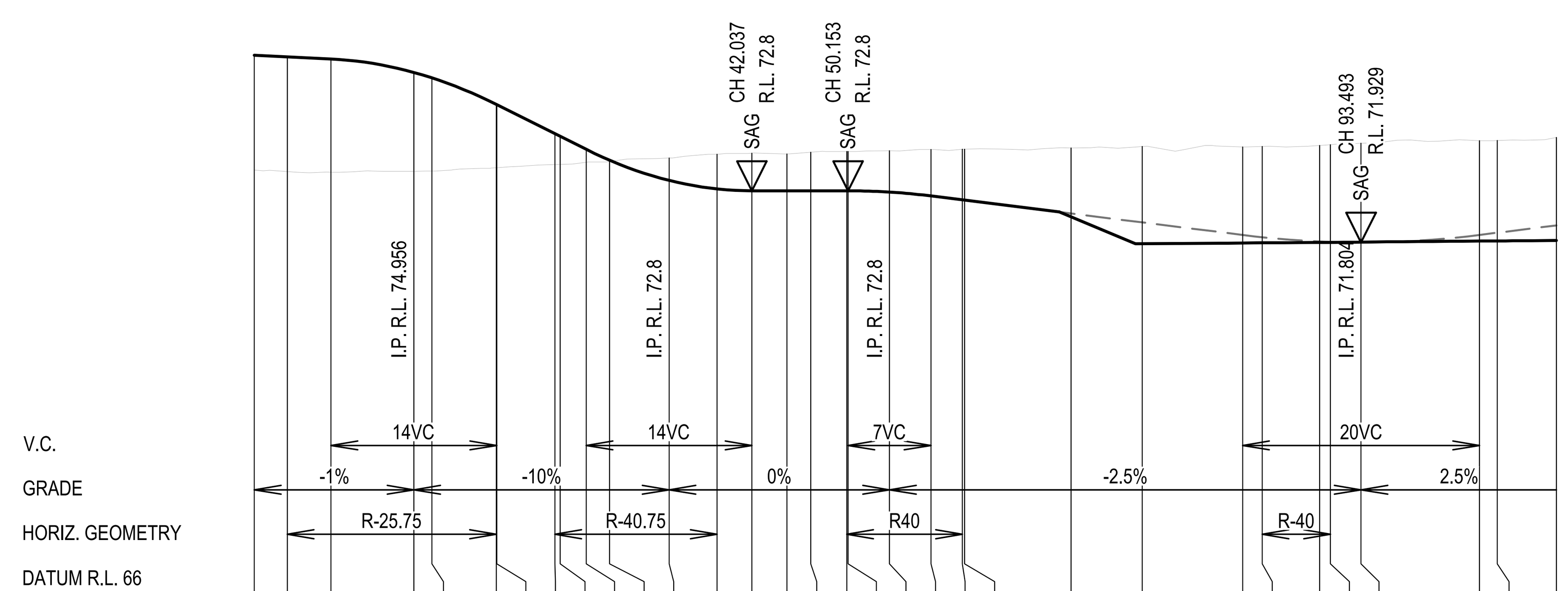
Title: BASIN ACCESS TRACK PLAN

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	460	C



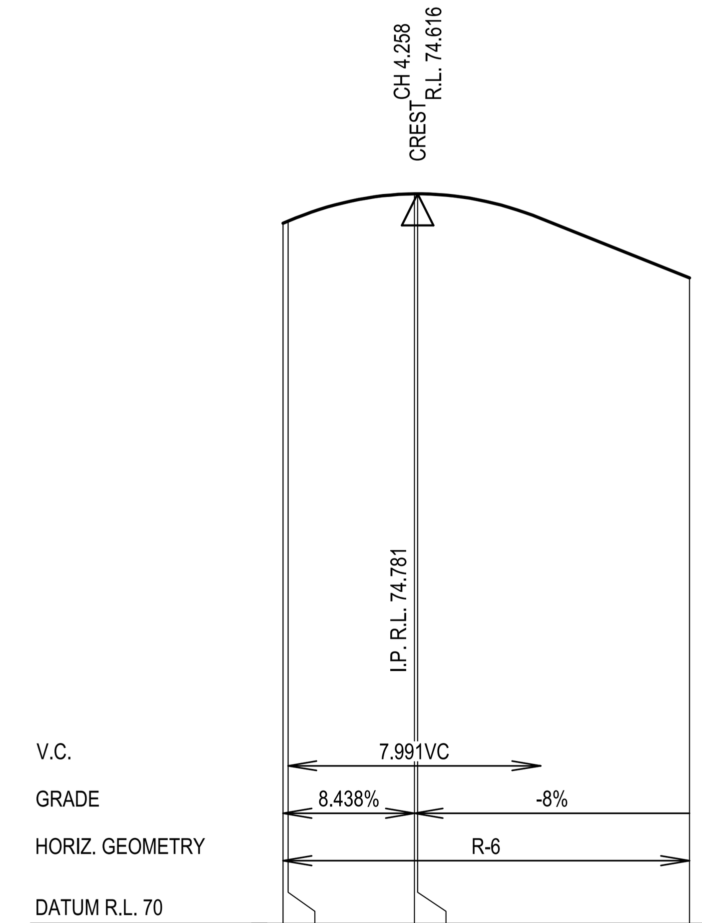
W.A.E.	DESIGN LEVEL	EXISTING LEVEL	CHAINAGE
	75.261		0
	75.111	72.984	5.122
	75.071	73.004	5.572
	75.171	73.023	6.172
	75.13	73.07	10.194
	75.129	73.074	10.324
	75.034	73.06	13.787
	75.032	73.059	13.824
	74.972	73.048	15
	74.814	72.926	17.324
	74.472	72.777	21.592
	74.132	72.6	25.84
	73.799	72.251	30
	73.487	71.94	33.911
	73.39	71.869	35.117
	73.154	71.717	38.617
	73.005	71.646	42.117
	72.919	71.562	45
	72.659	71.277	53.656
	72.469	71.3	60
	72.019	70.948	75
	71.745	71.189	84.134
	71.656	71.347	89.51
	71.655	71.386	90
	71.655	71.397	90.134
	71.657	71.476	91.134
	71.815	72.414	98.134
	72.089	73.922	105
	72.22	74.588	108.259
	72.613	76.473	115.259
	72.817	76.26	117.853
	73.009	75.631	120
	73.235	74.991	122.259
	73.721	73.684	126.889
	74.572	71.896	135
	75.39	71.776	142.787
	75.896	71.826	149.787
	75.904	71.826	150
	75.98	71.822	154.027
	75.98	71.822	154.078
	75.945	71.832	156.787
	75.733	71.791	165
	75.677	71.778	167.184

LONGITUDINAL SECTION - ACCESS 01
SCALE 1:500 (H)
SCALE 1:100 (V)



W.A.E.	DESIGN LEVEL	EXISTING LEVEL	CHAINAGE
	75.091	73.149	0
	75.063	73.125	2.784
	75.026	73.114	6.473
	74.799	73.13	13.473
	74.707	73.132	15
	74.26	73.189	20.435
	74.256	73.189	20.473
	73.765	73.244	25.389
	73.72	73.247	25.84
	73.5	73.282	28.037
	73.317	73.296	30
	72.975	73.353	35.037
	72.831	73.417	39.092
	72.8	73.434	42.037
	72.8	73.421	45
	72.8	73.45	47.012
	72.8	73.463	50.044
	72.8	73.463	50.153
	72.778	73.478	53.653
	72.712	73.499	57.153
	72.646	73.5	59.815
	72.641	73.501	60
	72.416	73.523	69
	72.266	73.549	75
	72.054	73.54	83.493
	72.016	73.55	85.142
	71.944	73.566	90
	71.937	73.58	90.906
	71.929	73.601	93.493
	72.054	73.647	103.493
	72.092	73.648	105
	72.217	73.7	110

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



W.A.E.	DESIGN LEVEL	CHAINAGE
	74.43	0
	74.443	0.156
	74.616	4.151
	74.616	4.258
	74.084	12.854

KERB RETURN KRL01
SCALE 1:200 (H)
SCALE 1:40 (V)

B

SETOUT TABLE ACCESS 01

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	288532.17	6234419.03	128°56'31.08"		
10.19	288540.1	6234412.63	128°56'31.08"		
11.99	288541.7	6234411.34		3	3.593
13.79	288541.08	6234409.39	197°33'54.37"		
21.59	288538.72	6234401.95	197°33'54.37"		
27.75	288536.85	6234396.03		-40	12.318
33.91	288536.86	6234389.82	179°55'14.33"		
53.66	288536.88	6234370.07	179°55'14.33"		
71.58	288536.91	6234351.34		50	35.854
89.51	288524.62	6234337.2	221°00'24.02"		
117.85	288506.02	6234315.81	221°00'24.02"		
122.37	288503.04	6234312.39		-40	9.036
126.89	288500.91	6234308.38	208°03'47.19"		
158.8	288485.89	6234280.22	208°03'47.19"		

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

SETOUT TABLE ACCESS 02

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	288544.85	6234418.31	168°12'59.03"		
2.78	288545.42	6234415.59	168°12'59.03"		
11.35	288547.24	6234406.86		-25	17.137
19.92	288554.18	6234401.25	128°56'31.08"		
24.87	288558.04	6234398.14	128°56'31.08"		
31.6	288563.32	6234393.87		-40	13.451
38.33	288569.71	6234391.58	109°40'31.38"		
48.78	288579.55	6234388.06	109°40'31.38"		
53.65	288584.17	6234386.41		40	9.744
58.53	288588.24	6234383.7	123°37'57.14"		
81.77	288607.6	6234370.83	123°37'57.14"		
85.01	288610.3	6234369.03		-50	6.469
88.24	288613.2	6234367.6	116°13'11.34"		
135.21	288655.34	6234346.85	116°13'11.34"		

SETOUT TABLE KRL01

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	288550.179	6234400.462	314°15'40.30"		
3.213	288547.629	6234402.947		-6	6.427
6.427	288544.226	6234401.9	252°53'24.16"		
9.64	288540.824	6234400.852		-6	6.427
12.854	288540.113	6234397.363	191°31'08.02"		

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP

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)

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

Scale:
0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100 (A1) SCALE 1:200 (A3)
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 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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: BASIN ACCESS TRACK KERB RETURN PROFILES & SETOUT

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	461	B

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

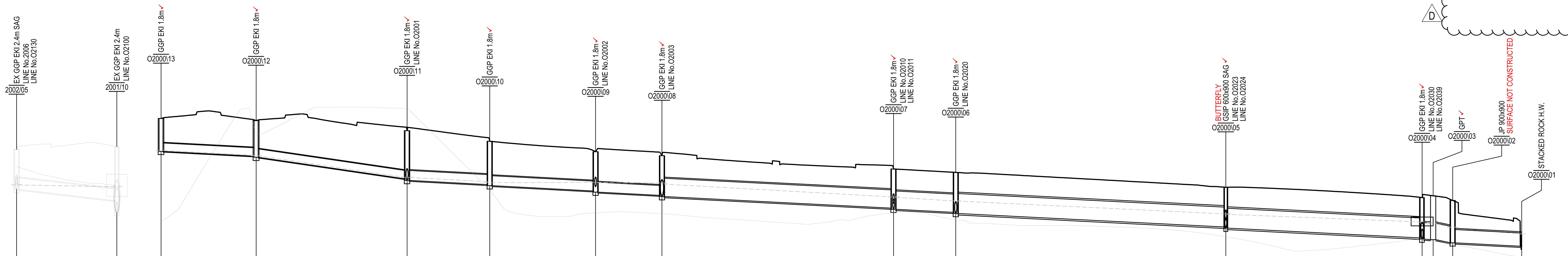
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP

LEGEND

EXISTING SURFACE	
DESIGN SURFACE	
FUTURE SURFACE	
DESIGN STORM HGL	
DESIGN PIPE AND PIT	
DESIGN TEMPORARY PIPE AND PIT	
EXISTING PIPE AND PIT	
FUTURE PIPE AND PIT	

*PIPE O2000 UPSIZED
*PIT NUMBERS AMENDED
*HGL LOWERED
(D)



LINE 2002

	2002/05 → 2001/10
PIPE MAX. VELOCITY (m/s)	1.44
DISCHARGE (cu.m/s)	0.23
PIPE SIZE (mm) & CLASS	525 EX RRJ2
DESIGN GRADE	2.25%
PIPE CHAINAGE (length)	22.69

DATUM R.L 54.0

	2002/05	2001/10 (in)	2001/10
DEPTH TO INVERT	1.8	2.43 2.96	2.24
DESIGN HGL (5yr)	73.92		73.84
INVERT LEVEL	73.72	73.21 72.68	73.4
SURFACE LEVEL	75.52		75.64
ROAD CHAINAGE	920.25		676.56
PIPE CHAINAGE	0		22.69

LINE O2000

Segment	PIPE MAX. VELOCITY (m/s)	DISCHARGE (cu.m/s)	PIPE SIZE (mm) & CLASS	DESIGN GRADE	PIPE CHAINAGE (length)
O2000\13 – O2000\12	0.77	0.01	✓ 375 RRJ2	1% 0.93%	21.47 21.53
O2000\12 – O2000\11	1.62	0.02	✓ 375 RRJ2	2.85% 2.79%	34.03 34.16
O2000\11 – O2000\10	1.5	0.06	✓ 450 RRJ2	1% 0.59%	18.79 18.71
O2000\10 – O2000\09	1.37	0.07	✓ 450 RRJ2	1% 0.96%	23.93 23.96
O2000\09 – O2000\08	1.22	0.11	✓ 450 RRJ2	1% 1.53%	15.07 15.02
O2000\08 – O2000\07	2.75	1.05	✓ 825 RRJ3	1% 0.95%	52.47 52.42
O2000\07 – O2000\06	3.03	1.11	✓ 825 RRJ3	1% 1%	13.93 14.08
O2000\06 – O2000\05	3.08	1.32	✓ 900 RRJ3	1% 0.99%	61.47 61.12
O2000\05 – O2000\04	2.7	1.39	✓ 900 RRJ3	1% 0.97%	44.11 44.44
O2000\04 – O2000\03	3.63	1.6	✓ 750 RRJ2	1% 0.88%	2.28 2.49
O2000\03 – O2000\02	4.31	1.6	✓ 750 RRJ2	3.25%	4.41
O2000\02 – O2000\01	2.87	1.6	✓ (2x)600 RRJ4	1%	15.63

DATUM R.L 53.0

Pit	DEPTH TO INVERT (in)	DEPTH TO INVERT (out)	DESIGN HGL (5yr) (in)	DESIGN HGL (5yr) (out)	INVERT LEVEL (in)	INVERT LEVEL (out)	SURFACE LEVEL	ROAD CHAINAGE	PIPE CHAINAGE
O2000\13		1.48 1.54		74.48		74.44 74.41	75.92 75.95 LIP	492.52	0
O2000\12	1.66 1.6	1.65 1.75	74.27	74.23	74.21 74.22	74.17 74.12	75.83 75.87 LIP	507.56	21.53
O2000\11	2.24 2.17	2.25 2.33		73.26	73.17 73.2	73.12 73.08	75.37 75.41 LIP	17.94	55.69
O2000\10	1.96 1.96	2.01 2.03	73.07	73.02	72.97 72.94	72.89 72.90	74.89 74.93 LIP	36.43	74.4
O2000\09	1.81 1.77	1.82 1.86	73.04	73.02	72.67 72.65	72.6 72.62	74.42 74.48 LIP	60.5	98.36
O2000\08	1.90 1.8	1.85 1.92	73.01	72.96	72.39 72.45	72.4 72.37	74.24 74.29 LIP	76.22	113.38
O2000\07	1.80 1.77	1.82 1.87	72.38	72.36	71.87 71.87	71.82 71.80	73.64 73.67 LIP	131	165.8
O2000\06	1.86 1.81	1.86 1.91		72.19	71.66 71.68	71.63 71.61	73.49 73.52 LIP	145.08	179.88
O2000\05	1.76 1.8	1.85 1.81	71.61	71.59	71.00 71.02	70.97 70.95	72.82 72.76	206	241.01
O2000\04	1.86 1.82	1.87 1.86		71.25	70.52 70.52	70.47 70.52	72.35 72.38 LIP	249.11	285.44
O2000\03	1.92 1.98	1.98 1.93	71.21	71.16	70.50 70.45	70.45 70.49	72.43 72.42	249.78	287.94
O2000\02	1.91	1.91	71.01	70.96	70.44 70.31	70.31 70.30 70.31	72.22	42.06	292.35
O2000\01	0.6	0.6		70.7	70.15	70.15 70.17 70.18	70.75	46.38	307.99

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
D	LMc	LMc	MP	MP	20/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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:
591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title:
DRAINAGE LONGITUDINAL SECTIONS SHEET 01

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	510	D

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

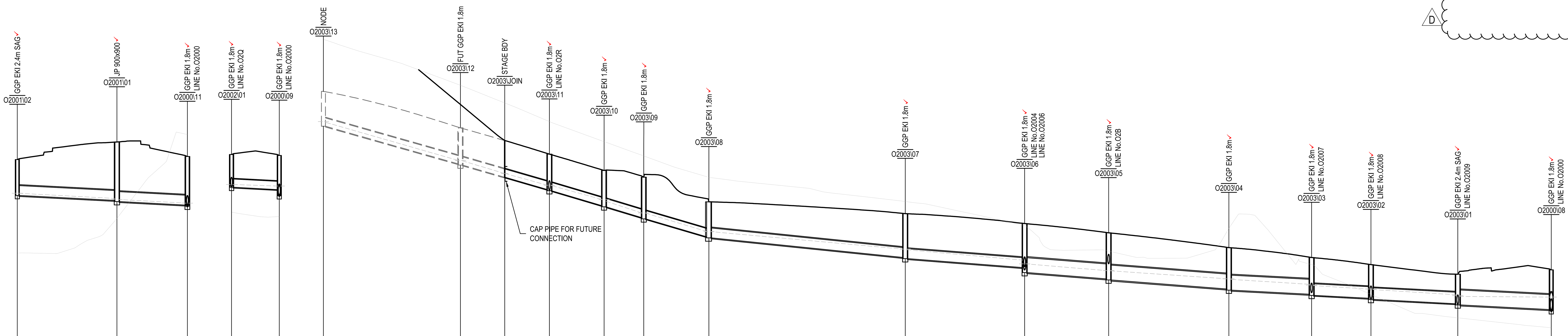
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP

LEGEND

EXISTING SURFACE	
DESIGN SURFACE	
FUTURE SURFACE	
DESIGN STORM HGL	
DESIGN PIPE AND PIT	
DESIGN TEMPORARY PIPE AND PIT	
EXISTING PIPE AND PIT	
FUTURE PIPE AND PIT	

*PIPE O2000 UPSIZED
*PIT NUMBERS AMENDED
*HGL LOWERED
D



LINE O2001 (DATUM R.L 54.0)

Pipe segment	PIPE MAX. VELOCITY (m/s)	DISCHARGE (cu.m/s)	PIPE SIZE (mm) & CLASS	DESIGN GRADE
O2001\02 – O2001\01	1.14	0.03	450 RRJ3	1% / 0.94%
O2001\01 – O2000\11	1.24	0.03	450 RRJ2	1% / 1.12%

Position	DEPTH TO INVERT	DESIGN HGL (5yr)	INVERT LEVEL	SURFACE LEVEL	ROAD CHAINAGE	PIPE CHAINAGE
O2001\02	1.63 / 1.68	73.7	73.61 / 73.59	75.23 / 75.27 LIP		-22.5
end of segment	2.60 / 2.65	73.47	73.38 / 73.38			22.38 / 22.57
O2001\01	2.7 / 2.66	73.42	73.33 / 73.32	76.03 / 75.98	5	0.07
end of segment	2.27 / 2.2		73.14 / 73.17			16.00 / 15.95
O2000\11	2.25 / 2.33	73.26	73.12 / 73.08	75.37 / 75.41 LIP	17.94	16.02

LINE O2001

LINE O2002 (DATUM R.L 53.0)

Pipe segment	PIPE MAX. VELOCITY (m/s)	DISCHARGE (cu.m/s)	PIPE SIZE (mm) & CLASS	DESIGN GRADE
O2002\01 – O2000\09	1.48	0.05	375 RRJ2	1% / 0.75%

Position	DEPTH TO INVERT	DESIGN HGL (5yr)	INVERT LEVEL	SURFACE LEVEL	ROAD CHAINAGE	PIPE CHAINAGE
O2002\01	1.48 / 1.59	73.1	72.98 / 72.93	74.46 / 74.52 LIP	57.54	-35.05
end of segment	1.63 / 1.55	73.04	72.85 / 72.87			10.72 / 10.81
O2000\09	1.82 / 1.86	73.02	72.6 / 72.62	74.42 / 74.48 LIP	60.5	-24.24

LINE O2002

LINE O2003 (DATUM R.L 58.0)

Pipe segment	PIPE MAX. VELOCITY (m/s)	DISCHARGE (cu.m/s)	PIPE SIZE (mm) & CLASS	DESIGN GRADE
O2003\13 – O2003\12	3.23	0.17	375 FUT RRJ2	5.5%
O2003\12 – O2003\JOIN	3.65	0.2	375 FUT RRJ2	5.5%
O2003\JOIN – O2003\11	4.01	0.2	375 RRJ2	5.5%
O2003\11 – O2003\10	3.78	0.27	375 RRJ2	5.5% / 5.31%
O2003\10 – O2003\09	3.42	0.29	375 RRJ2	5.5% / 5.15%
O2003\09 – O2003\08	4.03	0.31	375 RRJ2	5.5% / 5.56%
O2003\08 – O2003\07	2.76	0.33	450 RRJ2	2% / 1.78%
O2003\07 – O2003\06	2.56	0.36	450 RRJ2	1.5% / 1.25%
O2003\06 – O2003\05	3.18	0.66	675 RRJ2	1.5% / 1.32%
O2003\05 – O2003\04	2.9	0.71	675 RRJ2	1.5% / 1.43%
O2003\04 – O2003\03	2.7	0.73	675 RRJ3	1% / 1.07%
O2003\03 – O2003\02	2.16	0.78	(2x)525 RRJ3	1% / 0.82%
O2003\02 – O2003\01	2.41	0.92	(2x)525 RRJ3	1% / 1.16%
O2003\01 – O2000\08	1.7	0.94	(2x)675 RRJ3	1% / 1% / 0.9%

Position	DEPTH TO INVERT	DESIGN HGL (5yr)	INVERT LEVEL	SURFACE LEVEL	ROAD CHAINAGE	PIPE CHAINAGE
O2003\13	1.58	80.92	80.74	82.32	771	-27.19
end of segment	1.64	79.19	79.03			31.02
O2003\12	1.69	79.17	78.98	80.67	801.61	3.83
end of segment	1.66		78.43			10.02
O2003\JOIN	1.66	78.6	78.43	80.1	811.5	13.85
end of segment	1.67 / 1.6	78.07	77.85 / 77.88			10.12
O2003\11	1.65 / 1.73	78.06	77.83 / 77.79	79.48 / 79.52 LIP	821.48	23.98
end of segment	1.66 / 1.6	77.42	77.12 / 77.14			12.62 / 12.39
O2003\10	1.65 / 1.74	77.35	77.09 / 77.04	78.74 / 78.78 LIP	833.8	36.36
end of segment	1.91 / 1.84	76.82	76.58 / 76.6			8.94 / 8.97
O2003\09	1.89 / 1.95	76.81	76.55 / 76.54	78.44 / 78.49 LIP	838.88	45.34
end of segment	1.64 / 1.58	75.98	75.72 / 75.74			14.74 / 14.76
O2003\08	1.63 / 1.70	75.97	75.69 / 75.66	77.32 / 77.36 LIP	182.9	60.1
end of segment	1.94 / 1.99	75.18	74.87 / 74.8			44.46 / 44.45
O2003\07	2.04 / 2.17	75.15	74.75 / 74.64	76.79 / 76.81 LIP	138.95	104.55
end of segment	2.06 / 1.99	74.68	74.30 / 74.34			27.14 / 27.03
O2003\06	2.22 / 2.29	74.51	74.12 / 74.07	76.34 / 76.36 LIP	112.23	131.59
end of segment	2.19 / 2.08	74.21	73.82 / 73.83			18.91 / 19.02
O2003\05	2.13 / 2.24	74.2	73.78 / 73.77	75.92 / 76.01 LIP	93.44	150.61
end of segment	1.91 / 1.87	73.84	73.38 / 73.38			27.28 / 27.23
O2003\04	1.92 / 1.97	73.81	73.33 / 73.32	75.25 / 75.29 LIP	66.63	177.84
end of segment	1.73 / 1.66	73.59	73.12 / 73.14			18.61 / 18.73
O2003\03	1.71 / 1.78	73.53	73.09 / 73.07	74.8 / 74.85 LIP	48.69	196.57
end of segment	1.56 / 1.52	73.37	72.96 / 72.95			13.46 / 13.44
O2003\02	1.57 / 1.63	73.35	72.9 / 72.89	74.48 / 74.52 LIP	35.83	210.01
end of segment	1.44 / 1.34	73.12	72.66 / 72.71			19.77 / 19.67
O2003\01	1.39 / 1.45	73.04	72.66 / 72.65	74.04 / 74.10 LIP	16.17	229.68
end of segment	1.85 / 1.83 / 1.8	73.01	72.44 / 72.46 / 72.45			21.06 / 21.17
O2000\08	1.85 / 1.92	72.96	72.4 / 72.37	74.24 / 74.29 LIP	76.22	250.85

LINE O2003

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
D	LMc	LMc	MP	MP	20/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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:
591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title:
DRAINAGE LONGITUDINAL SECTIONS SHEET 02

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	511	D

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

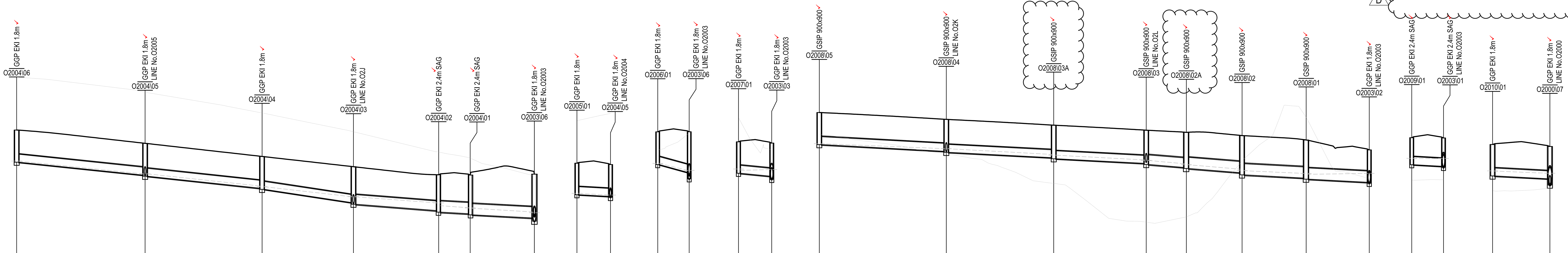
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP

LEGEND

EXISTING SURFACE	
DESIGN SURFACE	
FUTURE SURFACE	
DESIGN STORM HGL	
DESIGN PIPE AND PIT	
DESIGN TEMPORARY PIPE AND PIT	
EXISTING PIPE AND PIT	
FUTURE PIPE AND PIT	

D
*PIPE O2000 UPSIZED
*PIT NUMBERS AMENDED
*HGL LOWERED



LINE O2004

PIPE MAX. VELOCITY (m/s)	1.18	1.86	1.89	2.03	1.76	2.15	
DISCHARGE (cu.m/s)	0.01	0.05	0.08	0.24	0.28	0.28	
PIPE SIZE (mm) & CLASS	✓ 375 RRJ2	✓ 375 RRJ2	✓ 375 RRJ2	✓ 450 RRJ2	✓ 525 RRJ2	✓ 525 RRJ2	
DESIGN GRADE	2.02% 2%	2.07% 2.1%	2.91% 2.94%	1.5% 1.75%	1% 0.81%	1% 0.99%	
DATUM R.L	57.0						
DEPTH TO INVERT	1.52 1.58 — 1.56 1.5	1.55 1.61 — 1.56 1.5	1.55 1.58 — 1.72 1.69	1.77 1.76 — 1.74 1.69	1.76 1.82 — 1.87 1.83	1.88 1.94 — 2.13 2.07	2.22 2.29
DESIGN HGL (5yr)	76.95	76.35 — 75.78	75.74 — 75.27	75.27 — 74.98	74.85 — 74.75	74.73 — 74.56	74.51
INVERT LEVEL	76.9 76.86 — 76.26 76.29	76.24 76.21 — 75.63 75.67	75.62 75.61 — 74.98 75	74.92 74.94 — 74.59 74.62	74.54 74.51 — 74.45 74.47	74.42 74.38 — 74.23 74.27	74.12 74.07
SURFACE LEVEL	78.42 78.44 LIP	77.79 77.82 LIP	77.17 77.19 LIP	76.69 76.70 LIP	76.31 76.33 LIP	76.3 76.32 LIP	76.34 76.36 LIP
ROAD CHAINAGE	350.56	380.76	408.26	429.76	449.8	450.24	112.23
PIPE CHAINAGE	0 — 30.07 30.2	30.2 — 27.6 27.5	57.7 — 21.44 21.5	79.2 — 19.96 20.04	99.24 — 7.42 7.41	106.65 — 15.15 15.09	121.74

LINE O2005

PIPE MAX. VELOCITY (m/s)	0.83	
DISCHARGE (cu.m/s)	0.01	
PIPE SIZE (mm) & CLASS	✓ 375 RRJ2	
DESIGN GRADE	1% 1.02%	
DATUM R.L	58.0	
DEPTH TO INVERT	1.48 1.56 — 1.57 1.5	1.55 1.61
DESIGN HGL (5yr)	76.43	76.35
INVERT LEVEL	76.37 76.33 — 76.25 76.29	76.24 76.21
SURFACE LEVEL	77.85 77.88 LIP	77.79 77.82 LIP
ROAD CHAINAGE	378	380.76
PIPE CHAINAGE	0 — 7.87 7.9	7.9

LINE O2006

PIPE MAX. VELOCITY (m/s)	1.79	
DISCHARGE (cu.m/s)	0.02	
PIPE SIZE (mm) & CLASS	✓ 375 RRJ2	
DESIGN GRADE	5% 3.43%	
DATUM R.L	55.0	
DEPTH TO INVERT	1.54 1.82 — 2.09 1.92	2.22 2.29
DESIGN HGL (5yr)	74.84 — 74.52	74.51
INVERT LEVEL	74.79 74.54 — 74.27 74.42	74.12 74.07
SURFACE LEVEL	76.33 76.36 LIP	76.34 76.36 LIP
ROAD CHAINAGE	112	112.23
PIPE CHAINAGE	0 — 7.87 7.4	7.4

LINE O2007

PIPE MAX. VELOCITY (m/s)	1.07	
DISCHARGE (cu.m/s)	0.02	
PIPE SIZE (mm) & CLASS	✓ 375 RRJ2	
DESIGN GRADE	1.79% 1.3%	
DATUM R.L	54.0	
DEPTH TO INVERT	1.48 1.56 — 1.63 1.56	1.71 1.78
DESIGN HGL (5yr)	73.51 — 73.55	73.53
INVERT LEVEL	73.38 73.32 — 73.22 73.24	73.09 73.07
SURFACE LEVEL	74.86 74.88 LIP	74.8 74.85 LIP
ROAD CHAINAGE	51.19	48.69
PIPE CHAINAGE	0 — 7.72 7.81	7.81

LINE O2008

PIPE MAX. VELOCITY (m/s)	0.55	1.54	1.65	2.08	2.09	1.84	1.05	
DISCHARGE (cu.m/s)	0.01	0.07	0.08	0.13	0.13	0.13	0.13	
PIPE SIZE (mm) & CLASS	✓ 375 RRJ2	✓ 375 RRJ2	✓ 375 RRJ2	✓ 450 RRJ2	✓ 525 RRJ2	✓ 525 RRJ2	✓ 525 RRJ3	
DESIGN GRADE	1.05% 1.07%	1% 0.99%	1% 1.01%	1.5% 1.16%	1.5% 1.45%	1% 0.87%	1% 0.81%	
DATUM R.L	54.0							
DEPTH TO INVERT	1.51 1.57 — 1.58 1.5	1.55 1.63 — 1.61 1.53	1.58 1.66 — 1.65 1.56	1.61 1.71 — 1.71 1.65	1.7 1.76 — 1.78 1.75	1.85 1.94 — 1.85 1.8	1.85 1.91 — 1.57 1.52	1.57 1.63
DESIGN HGL (5yr)	74.77 — 74.54	74.53 — 74.27	74.23 — 74.01	73.98 — 73.83	73.78 — 73.57	73.5 — 73.37	73.33 — 73.37	73.35
INVERT LEVEL	74.73 74.72 — 74.40 74.41	74.36 74.35 — 74.10 74.11	74.06 74.05 — 73.83 73.84	73.79 73.77 — 73.66 73.65	73.6 73.61 — 73.42 73.41	73.3 73.26 — 73.13 73.15	73.1 73.07 — 72.95 72.95	72.9 72.89
SURFACE LEVEL	76.24 76.29	75.92 75.98	75.64 75.71	75.41 75.48	75.31 75.37	75.15 75.20	74.95 74.98	74.48 74.52 LIP
ROAD CHAINAGE	125.34	95.47	70.2	48.45	38.98	25.01	9.93	35.83
PIPE CHAINAGE	-29.86 — 29.84 29.86	0 — 25.26 25.27	25.27 — 21.68 21.75	47.01 — 9.50 9.44	56.46 — 13.15 13.1	69.56 — 15.02 15.08	84.63 — 14.81 14.82	99.45

LINE O2009

PIPE MAX. VELOCITY (m/s)	0.45	
DISCHARGE (cu.m/s)	0.01	
PIPE SIZE (mm) & CLASS	✓ 375 RRJ3	
DESIGN GRADE	1% 1.76%	
DATUM R.L	53.0	
DEPTH TO INVERT	1.27 1.33 — 1.45 1.34	1.39 1.45
DESIGN HGL (5yr)	73.07 — 73.08	73.04
INVERT LEVEL	72.78 72.78 — 72.65 72.71	72.66 72.65
SURFACE LEVEL	74.06 74.11 LIP	74.04 74.10 LIP
ROAD CHAINAGE	15.16	16.17
PIPE CHAINAGE	-35.05 — 7.37 7.47	-27.58

LINE O2010

PIPE MAX. VELOCITY (m/s)	1.05	
DISCHARGE (cu.m/s)	0.04	
PIPE SIZE (mm) & CLASS	✓ 375 RRJ2	
DESIGN GRADE	1% 0.89%	
DATUM R.L	53.0	
DEPTH TO INVERT	1.48 1.58 — 1.59 1.52	1.82 1.87
DESIGN HGL (5yr)	72.48 — 72.38	72.36
INVERT LEVEL	72.25 72.20 — 72.08 72.12	71.82 71.80
SURFACE LEVEL	73.74 73.78 LIP	73.64 73.67 LIP
ROAD CHAINAGE	122.4	131
PIPE CHAINAGE	0 — 13.53 13.5	13.5

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
D	LMc	LMc	MP	MP	20/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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:
591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title:
DRAINAGE LONGITUDINAL SECTIONS SHEET 03

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	512	D

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

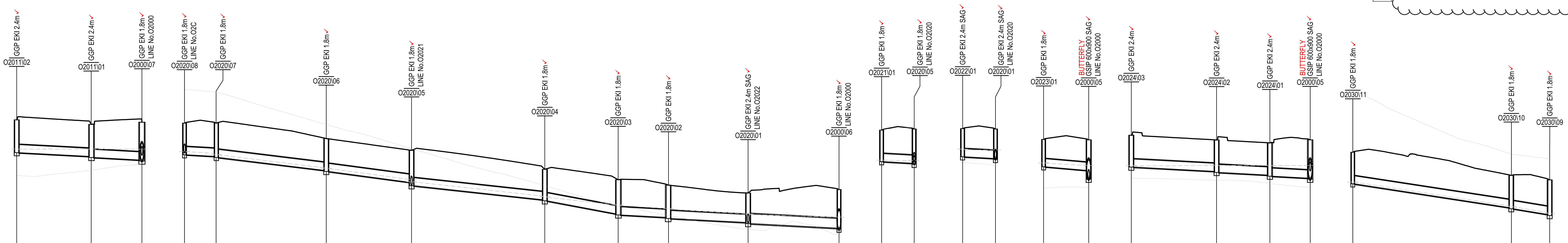
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP

LEGEND

EXISTING SURFACE	
DESIGN SURFACE	
FUTURE SURFACE	
DESIGN STORM HGL	
DESIGN PIPE AND PIT	
DESIGN TEMPORARY PIPE AND PIT	
EXISTING PIPE AND PIT	
FUTURE PIPE AND PIT	

D
*PIPE O2000 UPSIZED
*PIT NUMBERS AMENDED
*HGL LOWERED



LINE O2011

	O2011\02	pipe	O2011\01	pipe	O2000\07
PIPE MAX. VELOCITY (m/s)		0.71		0.68	
DISCHARGE (cu.m/s)		0.01		0.02	
PIPE SIZE (mm) & CLASS		375 RRJ2		375 RRJ2	
DESIGN GRADE		1% 1.37%		1% 0.93%	
DATUM R.L	52.0				
DEPTH TO INVERT	1.54 1.53		1.56 1.5; 1.55 1.58		1.79 1.77; 1.82 1.87
DESIGN HGL (5yr)	72.38		72.38		72.38; 72.36
INVERT LEVEL	72.22 72.25		72.01 72.04; 71.99 71.99		71.88 71.87; 71.82 71.80
SURFACE LEVEL	73.75 73.78 LIP		73.54 73.57 LIP		73.64 73.67 LIP
ROAD CHAINAGE	101.89		121.37		131
PIPE CHAINAGE	0	17.47 17.48	17.48	11.87 11.89	29.37

LINE O2020

	O2020\08	pipe	O2020\07	pipe	O2020\06	pipe	O2020\05	pipe	O2020\04
PIPE MAX. VELOCITY (m/s)		1.48		2.12		2.35		2.4	
DISCHARGE (cu.m/s)		0.06		0.07		0.09		0.12	
PIPE SIZE (mm) & CLASS		375 RRJ2		375 RRJ2		375 RRJ2		375 RRJ2	
DESIGN GRADE		1% 1.09%		2.35% 2.28%		2.55% 2.41%		2.1% 2.05%	
DATUM R.L	55.0								
DEPTH TO INVERT	1.48 1.53		1.59 1.56; 1.61 1.64		1.50 1.49; 1.54 1.59		1.53 1.5; 1.66 1.70		1.46 1.43; 1.48 1.56
DESIGN HGL (5yr)	75.27		75.18; 75.12		74.5; 74.48		73.96; 73.85		73.18; 73.12
INVERT LEVEL	75.12 75.11		75.03 75.04; 74.99 74.98		74.39 74.39; 74.34 74.30		73.79 73.83; 73.67 73.62		73.00 73.01; 72.96 72.90
SURFACE LEVEL	76.6 76.64 LIP		76.6 76.62 LIP		75.88 75.89 LIP		75.32 75.32 LIP		74.44 74.46 LIP
ROAD CHAINAGE	138.46		138.5		112.34		92.34		60.23
PIPE CHAINAGE	0	7.36 7.4	7.4	25.91 25.85	33.25	21.17 20	53.25	30.24 31.27	84.52

	O2020\04	pipe	O2020\03	pipe	O2020\02	pipe	O2020\01	pipe	O2000\06
PIPE MAX. VELOCITY (m/s)		2.33		1.72		1.76		1.49	
DISCHARGE (cu.m/s)		0.15		0.16		0.17		0.21	
PIPE SIZE (mm) & CLASS		375 RRJ2		375 RRJ2		375 RRJ3		450 RRJ2	
DESIGN GRADE		3.55% 3.34%		1% 0.85%		1% 1.07%		1% 0.98%	
DEPTH TO INVERT			1.64 1.6; 1.65 1.70		1.56 1.51; 1.56 1.62		1.47 1.38; 1.43 1.50		1.85 1.81; 1.86 1.91
DESIGN HGL (5yr)			72.77; 72.74		72.6; 72.56		72.34; 72.32		72.19
INVERT LEVEL			72.33 72.35; 72.3 72.27		72.17 72.18; 72.13 72.11		71.91 71.94; 71.89 71.88		71.67 71.68; 71.63 71.61
SURFACE LEVEL			73.95 73.97 LIP		73.69 73.73 LIP		73.32 73.38 LIP		73.49 73.52 LIP
ROAD CHAINAGE			42.5		33.29		15.11		145.08
PIPE CHAINAGE		17.09 17.19	101.71	11.78 11.81	113.52	18.61 18.68	132.21	21.39 21.32	153.53

LINE O2021

	O2021\01	pipe	O2020\05
PIPE MAX. VELOCITY (m/s)		0.66	
DISCHARGE (cu.m/s)		0.01	
PIPE SIZE (mm) & CLASS		375 RRJ2	
DESIGN GRADE		1% 1.08%	
DATUM R.L	54.0		
DEPTH TO INVERT	1.48 1.58		1.66 1.61; 1.66 1.70
DESIGN HGL (5yr)	73.85		73.85
INVERT LEVEL	73.79 73.74		73.66 73.72; 73.67 73.62
SURFACE LEVEL	75.27 75.32 LIP		75.32 75.32 LIP
ROAD CHAINAGE	90.48		92.34
PIPE CHAINAGE	0	7.38 7.63	7.63

LINE O2022

	O2022\01	pipe	O2020\01
PIPE MAX. VELOCITY (m/s)		0.69	
DISCHARGE (cu.m/s)		0.03	
PIPE SIZE (mm) & CLASS		375 RRJ3	
DESIGN GRADE		1% 1.05%	
DATUM R.L	52.0		
DEPTH TO INVERT	1.32 1.44		1.48 1.38; 1.43 1.50
DESIGN HGL (5yr)	72.34		72.34; 72.32
INVERT LEVEL	72.02 71.98		71.90 71.94; 71.89 71.88
SURFACE LEVEL	73.34 73.42 LIP		73.32 73.38 LIP
ROAD CHAINAGE	17.27		15.11
PIPE CHAINAGE	0	7.64 7.71	7.71

LINE O2023

	O2023\01	pipe	O2000\05
PIPE MAX. VELOCITY (m/s)		1.23	
DISCHARGE (cu.m/s)		0.04	
PIPE SIZE (mm) & CLASS		375 RRJ2	
DESIGN GRADE		1.6% 2.01%	
DATUM R.L	52.0		
DEPTH TO INVERT	1.28 1.33		1.43 1.43; 1.85 1.81
DESIGN HGL (5yr)	71.72		71.61; 71.59
INVERT LEVEL	71.55 71.54		71.33 71.39; 70.97 70.95
SURFACE LEVEL	72.84 72.87 LIP		72.82 72.76
ROAD CHAINAGE	204.1		206
PIPE CHAINAGE	0	10.47 10.57	10.57

LINE O2024

	O2024\03	pipe	O2024\02	pipe	O2024\01	pipe	O2000\05
PIPE MAX. VELOCITY (m/s)		0.8		0.91		0.85	
DISCHARGE (cu.m/s)		0.01		0.02		0.03	
PIPE SIZE (mm) & CLASS		375 RRJ2		375 RRJ2		375 RRJ2	
DESIGN GRADE		1% 1.05%		1% 1.05%		1% 0.92%	
DATUM R.L	52.0						
DEPTH TO INVERT	1.49 1.55		1.54 1.47; 1.52 1.61		1.60 1.51; 1.56 1.62		1.77 1.8; 1.85 1.81
DESIGN HGL (5yr)	71.59		71.62		71.62		71.61; 71.59
INVERT LEVEL	71.54 71.51		71.30 71.34; 71.29 71.23		71.10 71.16; 71.11 71.08		70.99 71.02; 70.97 70.95
SURFACE LEVEL	73.03 73.06 LIP		72.81 72.84 LIP		72.67 72.70 LIP		72.82 72.76
ROAD CHAINAGE	167.48		187.48		199.98		206
PIPE CHAINAGE	0	20.02 20	20	12.41 12.5	32.5	9.74 9.46	41.96

LINE O2030

	O2030\11	pipe	O2030\10	pipe	O2030\09
PIPE MAX. VELOCITY (m/s)		1.83		1.97	
DISCHARGE (cu.m/s)		0.03		0.04	
PIPE SIZE (mm) & CLASS		375 RRJ2		375 RRJ2	
DESIGN GRADE		3% 3.03%		3% 2.70%	
DATUM R.L	58.0				
DEPTH TO INVERT	1.48 1.44		1.46 1.51; 1.56 1.54		1.59 1.62
DESIGN HGL (5yr)	76.83		75.71; 75.68		75.4
INVERT LEVEL	76.76 76.83		75.70 75.64; 75.59 75.62		75.38 75.32
SURFACE LEVEL	78.24 78.27 LIP		77.15 77.16 LIP		76.94 76.97 LIP
ROAD CHAINAGE	308.66		205.13		200.05
PIPE CHAINAGE	-15	37.34 37.2	22.2	8.88 8.97	31.18

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
D	LMc	LMc	MP	MP	20/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

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

Project:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title:
DRAINAGE LONGITUDINAL SECTIONS SHEET 04

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	513	D

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

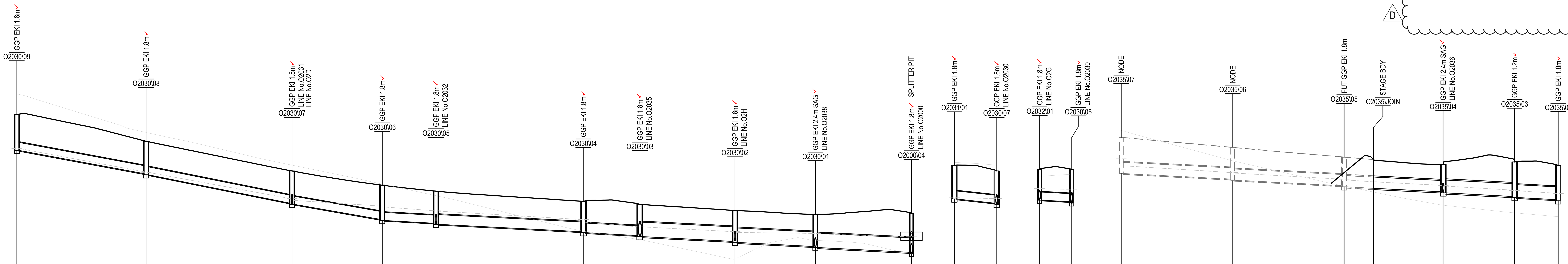
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP

LEGEND

EXISTING SURFACE	
DESIGN SURFACE	
FUTURE SURFACE	
DESIGN STORM HGL	
DESIGN PIPE AND PIT	
DESIGN TEMPORARY PIPE AND PIT	
EXISTING PIPE AND PIT	
FUTURE PIPE AND PIT	

*PIPE O2000 UPSIZED
*PIT NUMBERS AMENDED
*HGL LOWERED
(D)



LINE O2030

DATUM R.L 54.0

Pit	Depth to invert	Design HGL (5yr)	Invert level	Surface level	Road chainage	Pipe chainage
O2030\09	1.59 / 1.62 ; 1.67 / 1.70	75.4 ; 75.36	75.38 / 75.32 ; 75.27 / 75.27	76.94 / 76.97 LIP	200.05	31.18
O2030\08	1.51 / 1.51 ; 1.56 / 1.69	74.28 ; 74.25	74.22 / 74.19 ; 74.14 / 74.04	75.69 / 75.73 LIP	169.67	61.28
O2030\07	1.59 / 1.5 ; 1.55 / 1.63	73.03 ; 72.94	72.76 / 72.81 ; 72.76 / 72.72	74.31 / 74.35 LIP	135.7	95.26
O2030\06	1.61 / 1.59 ; 1.64 / 1.69	72.68 ; 72.64	72.08 / 72.06 ; 72.01 / 72.00	73.65 / 73.69 LIP	114.67	116.28
O2030\05	1.58 / 1.49 ; 1.54 / 1.61	72.46 ; 72.44	71.85 / 71.88 ; 71.83 / 71.82	73.37 / 73.43 LIP	102.17	128.78
O2030\04	1.47 / 1.41 ; 1.46 / 1.56	72.05 ; 71.93	71.48 / 71.49 ; 71.44 / 71.39	72.9 / 72.95 LIP	67.87	163.08
O2030\03	1.52 / 1.45 ; 1.5 / 1.60	71.71	71.28 / 71.31 ; 71.26 / 71.20	72.76 / 72.80 LIP	56.95	176.28
O2030\02	1.50 / 1.44 ; 1.49 / 1.54	71.49 ; 71.45	71.00 / 71.04 ; 70.99 / 70.96	72.47 / 72.50 LIP	34.95	198.39
O2030\01	1.55 / 1.49 ; 1.54 / 1.58	71.41 ; 71.39	70.76 / 70.8 ; 70.75 / 70.73	72.29 / 72.31 LIP	16.66	217.12
O2000\04	1.82 / 1.82 ; 1.87 / 1.86	71.25	70.56 / 70.52 ; 70.47 / 70.52	72.35 / 72.38 LIP	249.11	239.49

Pipe	Pipe max. velocity (m/s)	Discharge (cu.m/s)	Pipe size (mm) & class	Design grade	Length
O2030\09 – O2030\08	2.33	0.05	✓ 375 RRJ2	3.6% / 3.48%	30.13 / 30.1
O2030\08 – O2030\07	2.27	0.08	✓ 375 RRJ2	3.9% / 3.76%	34.02 / 33.98
O2030\07 – O2030\06	2.29	0.17	✓ 375 RRJ2	3.35% / 3.07%	20.83 / 21.02
O2030\06 – O2030\05	1.77	0.2	✓ 375 RRJ2	1% / 1.19%	12.63 / 12.5
O2030\05 – O2030\04	1.94	0.3	✓ 450 RRJ3	1% / 0.99%	34.22 / 34.3
O2030\04 – O2030\03	2.15	0.34	✓ 450 RRJ3	1% / 0.84%	13.17 / 13.19
O2030\03 – O2030\02	2.32	1.07	✓ (2x)675 RRJ3	1% / 0.90%	22.12 / 22.12
O2030\02 – O2030\01	2.18	1.14	✓ (2x)675 RRJ3	1% / 1.06%	18.81 / 18.73
O2030\01 – O2000\04	1.79	1.28	✓ (2x)675 RRJ3	1% / 0.76%	22.36 / 22.37

LINE O2031

DATUM R.L 54.0

Pit	Depth to invert	Design HGL (5yr)	Invert level	Surface level	Road chainage	Pipe chainage
O2031\01	1.56 / 1.64	73.07	73.01 / 72.96	74.57 / 74.60 LIP	142.19	0
O2030\07	1.59 / 1.5 ; 1.55 / 1.63	73.03 ; 72.94	72.76 / 72.81 ; 72.76 / 72.72	74.31 / 74.35 LIP	135.7	9.85

Pipe	Pipe max. velocity (m/s)	Discharge (cu.m/s)	Pipe size (mm) & class	Design grade	Length
O2031\01 – O2030\07	0.87	0.01	✓ 375 RRJ2	2% / 2.03%	9.84 / 9.85

LINE O2032

DATUM R.L 53.0

Pit	Depth to invert	Design HGL (5yr)	Invert level	Surface level	Road chainage	Pipe chainage
O2032\01	1.44 / 1.50	72.48	71.96 / 71.93	73.39 / 73.43 LIP	103.19	0
O2030\05	1.58 / 1.49 ; 1.54 / 1.61	72.46 ; 72.44	71.85 / 71.88 ; 71.83 / 71.82	73.37 / 73.43 LIP	102.17	7.47

Pipe	Pipe max. velocity (m/s)	Discharge (cu.m/s)	Pipe size (mm) & class	Design grade	Length
O2032\01 – O2030\05	1.06	0.1	✓ 375 RRJ2	1% / 1.08%	7.43 / 7.47

LINE O2035

DATUM R.L 53.0

Pit	Depth to invert	Design HGL (5yr)	Invert level	Surface level	Road chainage	Pipe chainage
O2035\07	1.68	73.55	73.19	74.88	90.96	-51.91
O2035\06	1.48 ; 1.53	73.24 ; 73.22	72.93 ; 72.88	74.41	65	-25.96
O2035\05	1.34 ; 1.39	72.93 ; 72.9	72.62 ; 72.57	73.96	39.04	0
O2035\JOIN	1.34 ; 1.34	72.81	72.51 ; 72.51	73.85	32.12	6.82
O2035\04	1.33 / 1.27 ; 1.32 / 1.36	72.64 ; 72.61	72.33 / 72.34 ; 72.29 / 72.30	73.62 / 73.66 LIP	16	23.04
O2035\03	1.72 / 1.61 ; 1.66 / 1.75	72.42 ; 72.39	72.06 / 72.13 ; 72.08 / 72.03	73.73 / 73.78 LIP	240.2	39.67
O2035\02	1.64 / 1.59	72.27	71.92 / 71.98	73.57 / 73.56 LIP	247.19	49.84

Pipe	Pipe max. velocity (m/s)	Discharge (cu.m/s)	Pipe size (mm) & class	Design grade	Length
O2035\07 – O2035\06	1.41	0.52	(2x)525 FUT RRJ3	1%	25.96
O2035\06 – O2035\05	2.07	0.58	(2x)525 FUT RRJ3	1%	25.96
O2035\05 – O2035\JOIN	2.14	0.61	(2x)525 FUT RRJ4	1%	6.82
O2035\JOIN – O2035\04	2.37	0.61	(2x)525 RRJ4	1%	16.22
O2035\04 – O2035\03	2.23	0.67	✓ (2x)600 RRJ4	1% / 1.42%	16.89 / 16.62
O2035\03 – O2035\02	2.3	0.68	✓ (2x)600 RRJ2	1% / 1.11%	9.92 / 10.17

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
D	LMc	LMc	MP	MP	20/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: DRAINAGE LONGITUDINAL SECTIONS SHEET 05

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	514	D

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

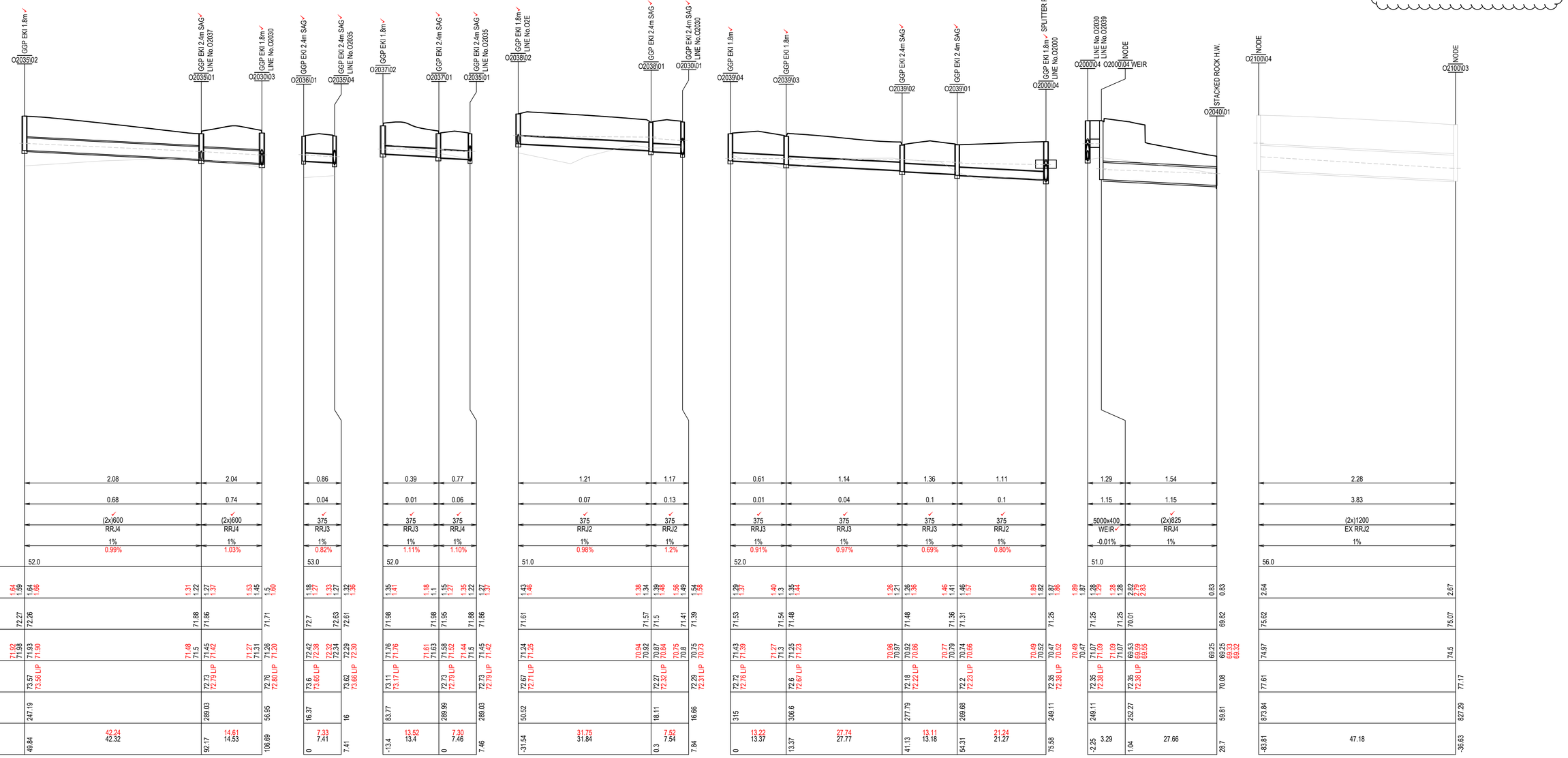
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP

LEGEND

EXISTING SURFACE	
DESIGN SURFACE	
FUTURE SURFACE	
DESIGN STORM HGL	
DESIGN PIPE AND PIT	
DESIGN TEMPORARY PIPE AND PIT	
EXISTING PIPE AND PIT	
FUTURE PIPE AND PIT	

E
*PIPE O2000 UPSIZED
*PIT NUMBERS AMENDED
*HGL LOWERED



ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
E	LMc	LMc	MP	MP	20/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
D	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: DRAINAGE LONGITUDINAL SECTIONS SHEET 06

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	515	E

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

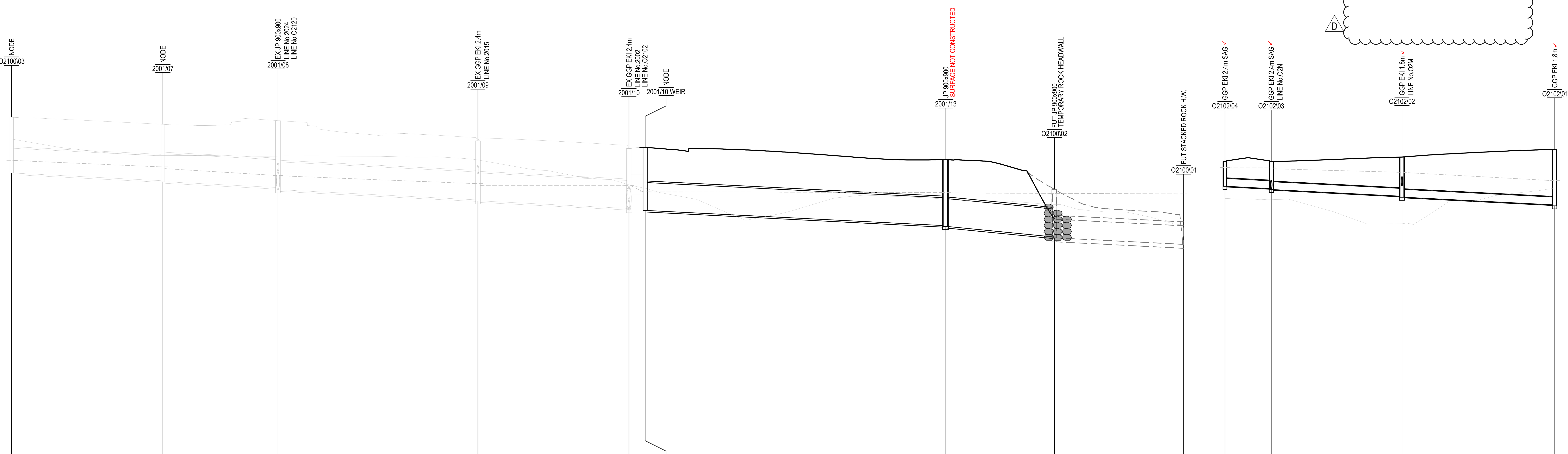
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP

LEGEND

- EXISTING SURFACE
- DESIGN SURFACE
- FUTURE SURFACE
- DESIGN STORM HGL
- DESIGN PIPE AND PIT
- DESIGN TEMPORARY PIPE AND PIT
- EXISTING PIPE AND PIT
- FUTURE PIPE AND PIT

D
*PIPE O2000 UPSIZED
*PIT NUMBERS AMENDED
*HGL LOWERED



LINE O2100

Pipe	O2100\03 – 2001/07	2001/07 – 2001/08	2001/08 – 2001/09	2001/09 – 2001/10	2001/10 – 2001/10 WEIR	2001/10 WEIR – 2001/13	2001/13 – O2100\02	O2100\02 – O2100\01
PIPE MAX. VELOCITY (m/s)	3.25	3.28	3.19	2.33	2.44	0.9	0.78	0.75
DISCHARGE (cu.m/s)	3.82	4.43	5.07	5.09	2.23	2.24	2.24	2.24
PIPE SIZE (mm) & CLASS	(2x)1200 EX RRJ2	(2x)1350 EX RRJ2	(2x)1350 EX RRJ2	(2x)1350 EX RRJ2	4700x1000 WEIR	✓ (2x)1350 RRJ2	✓ (2x)1350 RRJ2	3300x900 FUT RCBC
DESIGN GRADE	1%	1%	1%	1%	-0.01%	1%	1.9%	1%
PIPE LENGTH	36.63	27.88	48.41	36.57	3.93	X 72.81	26.31	31.29

DATUM R.L 54.0

Pit	O2100\03	2001/07	2001/08	2001/09	2001/10	2001/10 WEIR	2001/13	O2100\02	O2100\01
DEPTH TO INVERT	2.67 / 2.72	2.73 / 2.78	3.23 / 3.35	2.86 / 2.91	2.9 2.96 / 2.24	(2.27) 2.3 / 3.06 (3.02) (3.03)	3.19 / 3.24	2.3 / 2.35	0.9 / 0.9
DESIGN HGL (5yr)	75.07 / 75.06	74.75 / 74.67	74.34 / 74.32	73.94 / 73.84	73.84	73.54	73.5 / 73.49	73.47	73.44
INVERT LEVEL	74.5 / 74.45	74.08 / 74.03	73.75 / 73.64	73.16 / 73.11	72.74 72.68 / 73.4	(73.40) 73.4 / 72.64 (72.65) (72.64)	(72.00) (71.95) 71.91 / 71.86 (71.84) (71.86)	(71.32) (71.34) 71.36 / 71.31	71 / 71
SURFACE LEVEL	77.17	76.81	76.99	76.02	75.64	75.7 (75.67 LIP)	75.1	73.67	71.9
ROAD CHAINAGE	827.29	790.78	762.9	714	676.56	673.16	598.43		
PIPE CHAINAGE	-36.63	0	27.88	76.29	112.86	116.79	189.6	215.91	247.2

LINE O2100

LINE O2102

Pipe	O2102\04 – O2102\03	O2102\03 – O2102\02	O2102\02 – O2102\01
PIPE MAX. VELOCITY (m/s)	0.93	1.14	1.59
DISCHARGE (cu.m/s)	0.03	0.13	0.18
PIPE SIZE (mm) & CLASS	✓ 375 RRJ4	✓ 375 RRJ3	✓ 375 RRJ2
DESIGN GRADE	1% (0.81%)	1% (1.04%)	1% (1.03%)
PIPE LENGTH	(11.09) 11.2	(31.61) 31.66	(36.97) 37

DATUM R.L 54.0

Pit	O2102\04	O2102\03	O2102\02	O2102\01
DEPTH TO INVERT	1.19 (1.28)	(1.36) 1.3 / 1.35 (1.39)	(1.95) 1.89 / 1.94 (1.96)	(2.71) 2.67
DESIGN HGL (5yr)	74.7	74.7 / 74.66	74.49 / 74.48	74.08
INVERT LEVEL	73.81 (73.76)	(73.67) 73.7 / 73.65 (73.64)	(73.31) 73.33 / 73.28 (73.30)	(72.92) 72.91
SURFACE LEVEL	75 (75.04 LIP)	75 (75.03 LIP)	75.23 (75.26 LIP)	75.59 (75.63 LIP)
ROAD CHAINAGE	604	604	634.99	671.21
PIPE CHAINAGE	0	11.2	42.86	79.86

LINE O2102

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
D	LMc	LMc	MP	MP	20/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: DRAINAGE LONGITUDINAL SECTIONS SHEET 07

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	516	D

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

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

25/02/2025

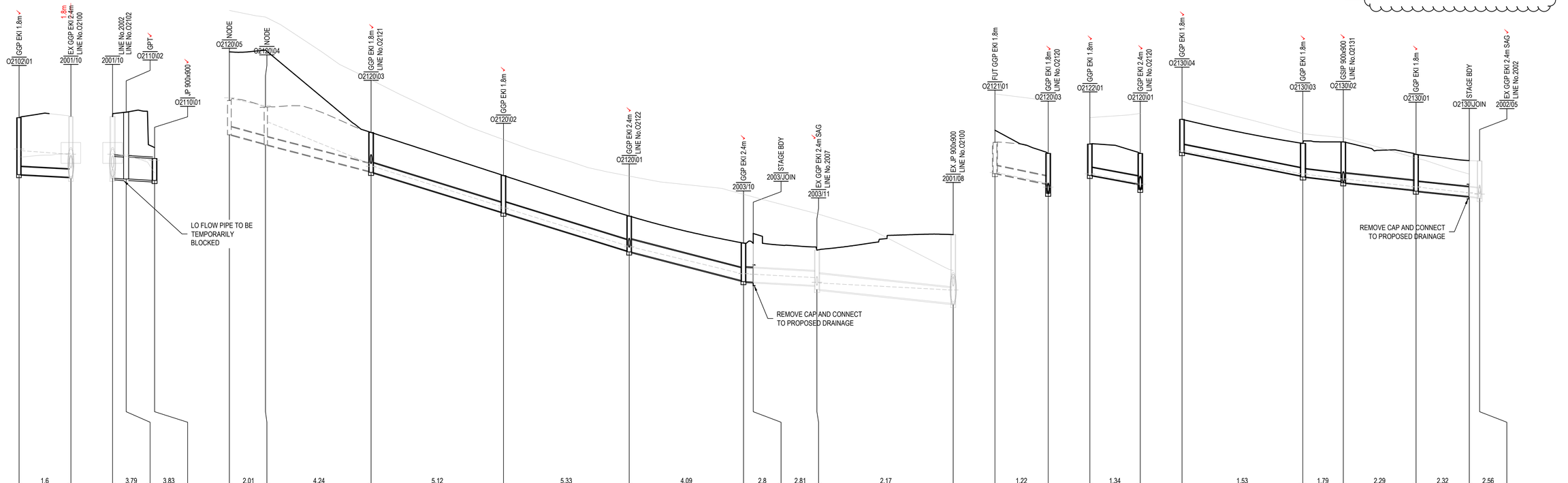
SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

LEGEND

EXISTING SURFACE	
DESIGN SURFACE	
FUTURE SURFACE	
DESIGN STORM HGL	
DESIGN PIPE AND PIT	
DESIGN TEMPORARY PIPE AND PIT	
EXISTING PIPE AND PIT	
FUTURE PIPE AND PIT	

D *PIPE O2000 UPSIZED
*PIT NUMBERS AMENDED
*HGL LOWERED



	LINE O2102			LINE O2110			LINE O2120															LINE O2121		LINE O2122			LINE O2130				
PIPE MAX. VELOCITY (m/s)	1.6			3.79	3.83		2.01	4.24	5.12	5.33	4.09	2.8	2.81	2.17								1.22		1.34			1.53	1.79	2.29	2.32	2.56
DISCHARGE (cu.m/s)	0.18			3.28	3.28		0.19	0.46	0.51	0.52	0.55	0.57	0.57	0.62								0.01		0.02			0.03	0.06	0.13	0.14	0.14
PIPE SIZE (mm) & CLASS	✓ RRJ2			1050 ✓ RRJ2	1050 ✓ RRJ2		375 ✓ FUT RRJ2	375 ✓ FUT RRJ2	450 ✓ RRJ2	525 ✓ RRJ2	600 ✓ RRJ2	675 ✓ RRJ2	675 ✓ EX RRJ2	750 EX RRJ2								375 FUT RRJ2		375 ✓ RRJ2			375 ✓ RRJ2	375 ✓ RRJ2	450 ✓ RRJ2	450 ✓ RRJ2	450 ✓ EX RRJ2
DESIGN GRADE	1% 0.73%			1% 2.35%	1% 0.8%		5%	5%	6% 5.85%	6% 5.95%	5% 5.01%	1.06%	1.06% 0.97%	2.06%								3.86%		3.45% 3.07%			3.86%	2.14% 2.21%	2% 1.89%	2% 1.59%	2%
DATUM R.L	54.0			54.0			61.0															62.0		58.0			56.0				
DEPTH TO INVERT	2.71 2.67	2.72 2.91	3.04 2.9	2.96 3.05	3.18 3.2	3.2 3.12	1.65	1.76	1.81	1.98 1.86	1.91 2.01	1.72 1.67	1.72 1.75	1.87 1.79	1.84 1.93	2.33	2.33	1.73 1.69	1.88 2.01	3.3	3.35	1.5	1.54 1.46	1.5 1.53	1.46 1.47	1.72	1.59 1.63	1.61 1.55	1.6 1.64	1.78 1.88	1.96 1.90	1.77 1.71	1.72	1.8 1.75	1.8 1.85
DESIGN HGL (5yr)	74.08	74.01		73.84	73.8	73.68	83.5	83.17	82.39	80.39	80.25	78.33	78.26	76.45	76.4	75.12	75.09	74.93	74.67	74.33	74.32	80.95	80.46	76.89	76.46	76.4	75.98	74.91	74.88	74.67	74.65	74.29	74.26	73.99	73.94	73.92
INVERT LEVEL	72.92 72.91	72.86 72.72	72.63 72.74	72.68 72.62	72.57 72.65	72.65 72.63	81.77	81.34	81.29	79.93 80.02	79.97 79.90	78.04 78.07	78.02 77.97	76.18 76.21	76.16 76.15	74.78 74.79	74.74 74.72	74.71 74.71	74.55 74.55	74.36 74.27	73.69	73.64	80.91	80.37 80.42	76.83 76.81	76.44 76.41	76.16	75.92 75.90	74.79 74.8	74.75 74.76	74.54 74.55	74.47 74.42	74.09 74.12	73.82	73.82	73.78 73.77	73.72 73.73
SURFACE LEVEL	75.64 75.67 LIP	75.59 75.63 LIP		75.64 75.67 LIP	75.85 75.75		83.42		83.1		81.88 81.91 LIP		79.82 79.84 LIP		77.88 77.90 LIP		76.58 76.65 LIP	77.04	76.25 76.28 LIP		76.99	82.41		78.33 78.34 LIP		77.88 77.90 LIP	77.51 77.53 LIP		76.36 76.40 LIP		76.43 76.32		75.83 75.86 LIP	75.53		75.52 75.58 LIP
ROAD CHAINAGE	671.21		676.56	676.56	674.23	673.63 74.08	160.94	7.2		133.09	71.2	43.8	41.46	26.13							762.9	140.98		78.41		71.2	856.3	885.25		175.48		905		917.77		920.25
PIPE CHAINAGE	12.25 79.86 12.41		92.27	2.13 0 3.25	8.75 3.25 6.82	10.07	-8.88 8.67	-0.21	25.31	31.77 25.1 31.74		30.10 56.84 30.15		27.32 86.99 27.4	17.80 114.39 2.34	116.73 15.27		132	32.68		164.68	12.77 0		12.06 0 12.08		12.08	28.85 0 28.95	28.95 9.94 9.72		38.67 17.42 17.44		56.11 12.77	15.10	68.88 2.48		71.36

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
D	LMc	LMc	MP	MP	20/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

JAS-ANZ WWW.IAS-ANZ.ORG/REGISTER

Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: DRAINAGE LONGITUDINAL SECTIONS SHEET 08

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	517	D

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

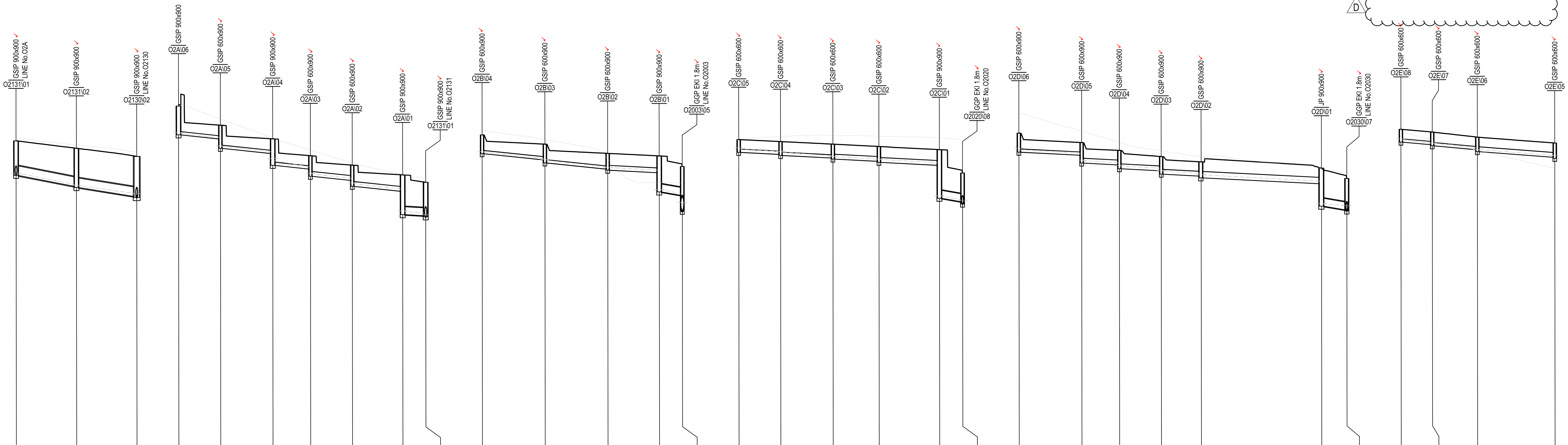
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP

LEGEND

EXISTING SURFACE	
DESIGN SURFACE	
FUTURE SURFACE	
DESIGN STORM HGL	
DESIGN PIPE AND PIT	
DESIGN TEMPORARY PIPE AND PIT	
EXISTING PIPE AND PIT	
FUTURE PIPE AND PIT	

D
*PIPE O2000 UPSIZED
*PIT NUMBERS AMENDED
*HGL LOWERED



LINE O2131

PIPE MAX. VELOCITY (m/s)	2.39	1.99	
DISCHARGE (cu.m/s)	0.06	0.06	
PIPE SIZE (mm) & CLASS	450 RRJ2	450 RRJ2	
DESIGN GRADE	3.68% 3.60%	3% 2.90%	
DATUM R.L	56.0		
DEPTH TO INVERT	1.65 1.69 1.83 1.82	1.87 1.91 1.85 1.91	1.96 1.90
DESIGN HGL (5yr)	75.63 75.1	75.06 74.66	74.65
INVERT LEVEL	75.53 75.49 74.97 75	74.95 74.89 74.47 74.52	74.47 74.42
SURFACE LEVEL	77.18 77.18	76.82 76.80	76.43 76.32
ROAD CHAINAGE	204.32	189.9	175.48
PIPE CHAINAGE	0 14.46 14.42	14.42 14.49 14.42	28.83

LINE O2A

PIPE MAX. VELOCITY (m/s)	1.12	1.56	1.8	1.77	1.83	1.32	
DISCHARGE (cu.m/s)	0.01	0.02	0.03	0.04	0.05	0.06	
PIPE SIZE (mm) & CLASS	150 UPVC	150 UPVC	150 UPVC	225 UPVC	225 UPVC	375 RRJ2	
DESIGN GRADE	2%	2% 2.16%	2% 1.37%	2% 1.62%	2% 1.88%	1% 1.07%	
DATUM R.L	58.0						
DEPTH TO INVERT	1.37 0.60 0.66	1.1 1.04 0.69 0.7	1.26 1.32 0.74 0.64	0.98 1.06 0.74 0.73	1.01 1.06 0.70 0.78	1.9 1.83 1.62 1.6	1.65 1.69
DESIGN HGL (5yr)	79.53 79.32	78.91 78.65	78.21 77.94	77.59 77.38	77.12 76.87	75.79 75.72	75.63
INVERT LEVEL	79.46 79.24 79.26	78.81 78.80 78.53 78.56	78 77.90 77.78 77.82	77.47 77.46 77.30 77.27	76.99 76.98 76.75 76.75	75.64 75.62 75.56 75.58	75.53 75.49
SURFACE LEVEL	80.83	79.92 79.84	79.26 79.22	78.46 78.52	78 78.04	77.54 77.45	77.18 77.18
ROAD CHAINAGE						204.15	204.32
PIPE CHAINAGE	0 10	10 12.48 12.5	22.5 8.77 9	31.5 9.90 10	41.5 12.22 12.04	53.54 5.60 5.5	59.04

LINE O2B

PIPE MAX. VELOCITY (m/s)	1.25	1.64	1.63	1.96	
DISCHARGE (cu.m/s)	0.01	0.02	0.04	0.05	
PIPE SIZE (mm) & CLASS	150 UPVC	150 UPVC	225 UPVC	375 RRJ2	
DESIGN GRADE	2% 1.93%	2% 2.3%	1% 4.95%	3% 2.52%	
DATUM R.L	56.0				
DEPTH TO INVERT	0.89 0.66 0.54 0.75	0.89 0.67 0.56 0.75	0.8 0.68 0.69 0.8	1.72 1.82 1.55 1.37	2.13 2.24
DESIGN HGL (5yr)	76.62 76.31	76.23 75.9	75.88 75.75	74.81 74.64	74.2
INVERT LEVEL	76.54 76.73 76.44 76.24	76.1 76.31 75.97 75.8	75.75 75.85 75.73 75.63	74.71 74.60 74.46 74.54	73.78 73.77
SURFACE LEVEL	77.44 77.39	76.99 76.98	76.55 76.53	76.43 76.42	75.92 76.01 LIP
ROAD CHAINAGE				93.3	93.44
PIPE CHAINAGE	0 15 15	15 14.78 15	30 12.52 12.31	42.31 5.56 5.5	47.81

LINE O2C

PIPE MAX. VELOCITY (m/s)	0.85	1.22	1.55	1.52	1.98	
DISCHARGE (cu.m/s)	0.01	0.02	0.03	0.04	0.05	
PIPE SIZE (mm) & CLASS	150 UPVC	150 UPVC	225 UPVC	225 UPVC	375 RRJ2	
DESIGN GRADE	1% 0.9%	1% 0.88%	1% 1.18%	1% 1.17%	3% 3.09%	
DATUM R.L	57.0					
DEPTH TO INVERT	0.61 0.58 0.58 0.61	0.66 0.60 0.56 0.66	0.71 0.59 0.62 0.71	0.76 0.75 0.67 0.75	2.32 2.26 1.46 1.37	1.48 1.53
DESIGN HGL (5yr)	77.75 77.64	77.6 77.43	77.38 77.27	77.25 77.09	75.5 75.32	75.27
INVERT LEVEL	77.59 77.62 77.53 77.49	77.44 77.51 77.40 77.32	77.27 77.37 77.24 77.16	77.11 77.11 76.94 76.96	75.39 75.35 75.18 75.22	75.12 75.11
SURFACE LEVEL	78.2 78.20	78.1 78.11	77.98 77.96	77.86 77.86	77.71 77.61	76.6 76.64 LIP
ROAD CHAINAGE					138.61	138.46
PIPE CHAINAGE	0 9.98 10	10 12.43 12.5	22.5 11 11	33.5 14.58 14.45	47.95 5.5 5.52	53.47

LINE O2D

PIPE MAX. VELOCITY (m/s)	0.91	1.28	1.46	1.51	1.66	1.59	
DISCHARGE (cu.m/s)	0.01	0.03	0.04	0.04	0.05	0.05	
PIPE SIZE (mm) & CLASS	150 UPVC	225 UPVC	225 UPVC	225 UPVC	300 UPVC	375 RRJ2	
DESIGN GRADE	1% 1.00%	1% 1.23%	1% 1.28%	1% 0.91%	1% 1.11%	3% 2.77%	
DATUM R.L	55.0						
DEPTH TO INVERT	0.91 0.89 0.67 0.6	0.98 1.04 0.73 0.69	0.87 0.90 0.78 0.68	0.84 0.90 0.81 0.68	0.76 0.88 0.74 0.74	1.81 1.81 1.57 1.5	1.55 1.63
DESIGN HGL (5yr)	75.69 75.52	75.17 75.08	74.92 74.81	74.68 74.57	74.49 74.19	73.09 73.03	72.94
INVERT LEVEL	75.59 75.55 75.40 75.44	75.06 75.03 74.92 74.97	74.79 74.75 74.62 74.69	74.53 74.50 74.41 74.43	74.35 74.34 74.02 74.06	72.99 72.95 72.78 72.81	72.76 72.72
SURFACE LEVEL	76.49 76.44	76.04 76.07	75.66 75.65	75.37 75.40	75.11 75.22	74.81 74.76	74.31 74.35 LIP
ROAD CHAINAGE						138.22	135.7
PIPE CHAINAGE	0 14.99 15	15 8.94 9	24 10.14 10	34 9.90 9.54	43.54 28.73 28.75	72.29 6.13 6.05	78.34

LINE O2E

PIPE MAX. VELOCITY (m/s)	0.89	1.29	1.78	
DISCHARGE (cu.m/s)	0.01	0.02	0.03	
PIPE SIZE (mm) & CLASS	150 UPVC	150 UPVC	225 UPVC	
DESIGN GRADE	1.67% 1.61%	1.78% 1.87%	1.49% 1.50%	
DATUM R.L	53.0			
DEPTH TO INVERT	0.61 0.60 0.57 0.6	0.65 0.59 0.48 0.6	0.69 0.61 0.73 0.68	
DESIGN HGL (5yr)	74.14 74	73.98 73.78	73.68 73.4	
INVERT LEVEL	74.05 74.02 73.90 73.92	73.87 73.88 73.68 73.68	73.59 73.55 73.27 73.31	
SURFACE LEVEL	74.66 74.62	74.52 74.47	74.28 74.16	73.99 74.00
ROAD CHAINAGE				
PIPE CHAINAGE	-18.25 7.46 7.49	-10.76 10.69 10.76	0 18.68 18.51	18.51

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
D	LMc	LMc	MP	MP	20/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title:
DRAINAGE LONGITUDINAL
SECTIONS
SHEET 09

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	518	D

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

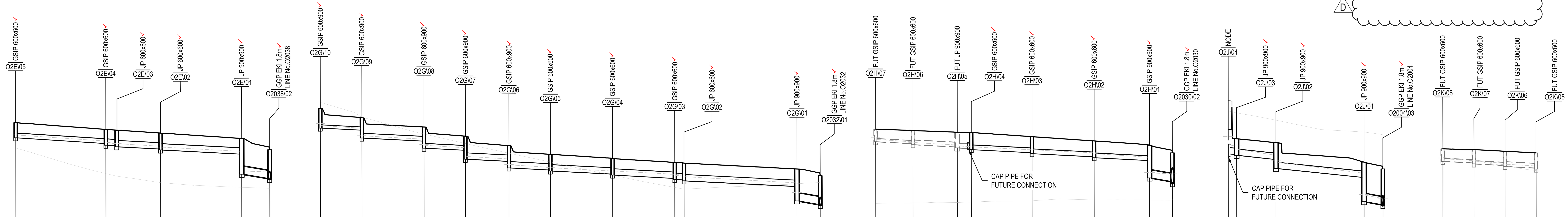
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP

LEGEND

EXISTING SURFACE	
DESIGN SURFACE	
FUTURE SURFACE	
DESIGN STORM HGL	
DESIGN PIPE AND PIT	
DESIGN TEMPORARY PIPE AND PIT	
EXISTING PIPE AND PIT	
FUTURE PIPE AND PIT	

D
*PIPE O2000 UPSIZED
*PIT NUMBERS AMENDED
*HGL LOWERED



LINE O2E

DATUM R.L 52.0

Pipe	PIPE MAX. VELOCITY (m/s)	DISCHARGE (cu.m/s)	PIPE SIZE (mm) & CLASS	DESIGN GRADE	PIPE CHAINAGE (length)
O2E\05 – O2E\04	1.7	0.04	✓ 225 UPVC	1.27% / 1.34%	21.58 / 21.74
O2E\04 – O2E\03	1.75	0.06	✓ 300 UPVC	1.11% / 1.09%	2.76 / 2.68
O2E\03 – O2E\02	1.66	0.06	✓ 300 UPVC	1% / 1.04%	10.62 / 10.54
O2E\02 – O2E\01	1.87	0.06	✓ 300 UPVC	1.02% / 1.08%	19.48 / 19.57
O2E\01 – O2038\02	1.98	0.06	✓ 375 RRJ2	3% / 1.79%	6.72 / 6.76

Position	PIPE CHAINAGE	DEPTH TO INVERT	DESIGN HGL (5yr)	INVERT LEVEL	SURFACE LEVEL	ROAD CHAINAGE
(left of O2E\05)		0.73 / 0.68	73.4	73.27 / 73.31		
O2E\05 (start)	18.51	0.73 / 0.74	73.39	73.26 / 73.26	73.99 / 74.00	
O2E\04 (end)		0.67 / 0.68	73.11	72.97 / 72.99		
O2E\04 (start)	40.25	0.76 / 0.75	73.04	72.9 / 72.89	73.66 / 73.64	
O2E\03 (end)		0.70 / 0.75	73	72.86 / 72.87		
O2E\03 (start)	42.93	0.8 / 0.74	72.97	72.82 / 72.82	73.63 / 73.56	
O2E\02 (end)		0.72 / 0.76	72.85	72.71 / 72.72		
O2E\02 (start)	53.47	0.81 / 0.76	72.81	72.67 / 72.67	73.48 / 73.43	
O2E\01 (end)		0.76 / 0.76	72.6	72.46 / 72.47		
O2E\01 (start)	73.03	1.73 / 1.81	71.6	71.5 / 71.41	73.23 / 73.22	52.38
O2038\02 (end)		1.42 / 1.38	71.65	71.29 / 71.29		
O2038\02	79.79	1.43 / 1.46	71.61	71.24 / 71.25	72.67 / 72.71 LIP	50.52

LINE O2E

LINE O2G

DATUM R.L 54.0

Pipe	PIPE MAX. VELOCITY (m/s)	DISCHARGE (cu.m/s)	PIPE SIZE (mm) & CLASS	DESIGN GRADE	PIPE CHAINAGE (length)
O2G\10 – O2G\09	0.98	0.01	✓ 150 UPVC	1% / 1.03%	9.73 / 10
O2G\09 – O2G\08	1.33	0.02	✓ 225 UPVC	1% / 0.79%	15.11 / 15
O2G\08 – O2G\07	1.31	0.04	✓ 225 UPVC	1% / 1.39%	10.09 / 10
O2G\07 – O2G\06	1.48	0.04	✓ 300 UPVC	1% / 0.97%	10.36 / 10.5
O2G\06 – O2G\05	1.58	0.05	✓ 300 UPVC	1% / 1.08%	10.20 / 10
O2G\05 – O2G\04	1.78	0.06	✓ 300 UPVC	1% / 1.08%	14.80 / 15
O2G\04 – O2G\03	1.78	0.08	✓ 300 UPVC	1.08% / 1.12%	15.22 / 15
O2G\03 – O2G\02	1.7	0.09	✓ 300 UPVC	1% / 1.90%	2.11 / 2.25
O2G\02 – O2G\01	1.74	0.09	✓ 300 UPVC	1% / 0.99%	27.33 / 27.25
O2G\01 – O2032\01	1.89	0.09	✓ 375 RRJ2	3% / 3.04%	5.6 / 5.6

Position	PIPE CHAINAGE	DEPTH TO INVERT	DESIGN HGL (5yr)	INVERT LEVEL	SURFACE LEVEL	ROAD CHAINAGE
O2G\10 (start)	0	0.94 / 0.88	75.84	75.72 / 75.68	76.66 / 76.56	
O2G\09 (end)		0.64 / 0.6	75.71	75.58 / 75.62		
O2G\09 (start)	10	0.98 / 1.06	75.34	75.23 / 75.16	76.22 / 76.22	
O2G\08 (end)		0.71 / 0.68	75.18	75.04 / 75.08		
O2G\08 (start)	25	1.02 / 1.05	74.88	74.74 / 74.70	75.76 / 75.75	
O2G\07 (end)		0.65 / 0.68	74.76	74.56 / 74.64		
O2G\07 (start)	35	1.11 / 1.05	74.34	74.21 / 74.16	75.32 / 75.21	
O2G\06 (end)		0.74 / 0.75	74.22	74.06 / 74.1		
O2G\06 (start)	45.5	1.07 / 1.03	73.93	73.78 / 73.77	74.85 / 74.80	
O2G\05 (end)		0.70 / 0.75	73.81	73.66 / 73.68		
O2G\05 (start)	55.5	0.8 / 0.73	73.79	73.63 / 73.63	74.44 / 74.36	
O2G\04 (end)		0.69 / 0.76		73.47 / 73.48		
O2G\04 (start)	70.5	0.81 / 0.75	73.63	73.43 / 73.41	74.24 / 74.16	
O2G\03 (end)		0.71 / 0.77	73.47	73.24 / 73.27		
O2G\03 (start)	85.5	0.82 / 0.76	73.41	73.22 / 73.19	74.04 / 73.95	
O2G\02 (end)		0.86 / 0.81	73.38	73.15 / 73.2		
O2G\02 (start)	87.75	0.86 / 0.89	73.35	73.15 / 73.12	74.01 / 74.01	
O2G\01 (end)		0.81 / 0.84	73.05	72.85 / 72.88		
O2G\01 (start)	115	1.54 / 1.51	72.51	72.17 / 72.15	73.71 / 73.66	104.24
O2032\01 (end)		1.45 / 1.39	72.5	71.98 / 72.01		
O2032\01	120.6	1.44 / 1.50	72.48	71.96 / 71.93	73.39 / 73.43 LIP	103.19

LINE O2G

LINE O2H

DATUM R.L 52.0

Pipe	PIPE MAX. VELOCITY (m/s)	DISCHARGE (cu.m/s)	PIPE SIZE (mm) & CLASS	DESIGN GRADE	PIPE CHAINAGE (length)
O2H\07 – O2H\06	0.75	0.01	150 FUT UPVC	1%	9
O2H\06 – O2H\05	1.17	0.02	225 FUT UPVC	1%	10.7
O2H\05 – O2H\04	1.19	0.02	225 FUT UPVC	1%	3.38
O2H\04 – O2H\03	1.4	0.03	✓ 225 UPVC	1% / 0.88%	14.77 / 14.65
O2H\03 – O2H\02	1.48	0.04	225 UPVC	1% / 1.13%	15.06 / 15
O2H\02 – O2H\01	1.56	0.05	225 UPVC	1% / 0.98%	13.26 / 13.36
O2H\01 – O2030\02	1.72	0.07	375 RRJ2	3% / 2.34%	5.56 / 5.5

Position	PIPE CHAINAGE	DEPTH TO INVERT	DESIGN HGL (5yr)	INVERT LEVEL	SURFACE LEVEL	ROAD CHAINAGE
O2H\07 (start)	0	0.61	73.13	73.02	73.63	
O2H\06 (end)		0.63	73.02	72.93		
O2H\06 (start)	9	0.68	72.98	72.88	73.56	
O2H\05 (end)		0.71	72.87	72.77		
O2H\05 (start)	19.7	0.76	72.82	72.72	73.48	
O2H\04 (end)		0.74 / 0.77	72.78	72.71 / 72.69		
O2H\04 (start)	23.07	0.82 / 0.76	72.77	72.64 / 72.69	73.46 / 73.45	
O2H\03 (end)		0.67 / 0.77		72.56 / 72.49		
O2H\03 (start)	37.73	0.82 / 0.76	72.63	72.44 / 72.47	73.26 / 73.23	
O2H\02 (end)		0.85 / 0.76	72.48	72.30 / 72.29		
O2H\02 (start)	52.73	0.81 / 0.91	72.44	72.24 / 72.24	73.05 / 73.15	
O2H\01 (end)		0.65 / 0.73	72.27	72.11 / 72.11		
O2H\01 (start)	66.09	1.58 / 1.53	71.46	71.26 / 71.23	72.84 / 72.76	34.77
O2030\02 (end)		1.40 / 1.37	71.49	71.10 / 71.1		
O2030\02	71.59	1.49 / 1.54	71.45	70.99 / 70.96	72.47 / 72.50 LIP	34.95

LINE O2H

LINE O2J

DATUM R.L 57.0

Pipe	PIPE MAX. VELOCITY (m/s)	DISCHARGE (cu.m/s)	PIPE SIZE (mm) & CLASS	DESIGN GRADE	PIPE CHAINAGE (length)
O2J\04 – O2J\03	1.82	0.13	✓ 300 UPVC	1%	2
O2J\03 – O2J\02	2.02	0.13	✓ 300 UPVC	2% / 1.05%	9.53 / 9.5
O2J\02 – O2J\01	2.02	0.13	✓ 300 UPVC	2% / 2.02%	21.24 / 21.26
O2J\01 – O2004\03	1.87	0.13	✓ 375 RRJ2	3% / 4.68%	4.49 / 4.53

Position	PIPE CHAINAGE	DEPTH TO INVERT	DESIGN HGL (5yr)	INVERT LEVEL	SURFACE LEVEL	ROAD CHAINAGE
O2J\04 (start)	0	2.22	77.85	77.42	79.63	
O2J\03 (end)		0.88 / 0.75	77.81	77.36 / 77.4		
O2J\03 (start)	2	0.8 / 0.91	77.63	77.35 / 77.33	78.15 / 78.24	
O2J\02 (end)		0.71 / 0.8	77.36	77.20 / 77.16		
O2J\02 (start)	11.5	1.25 / 1.21	77.01	76.71 / 76.70	77.96 / 77.91	
O2J\01 (end)		0.76 / 0.73	76.49	76.27 / 76.28		
O2J\01 (start)	32.76	1.91 / 1.84	75.41	75.11 / 75.19	77.01 / 77.03	429.21
O2004\03 (end)		1.72 / 1.72	75.27	74.98 / 74.97		
O2004\03	37.29	1.77 / 1.76	75.27	74.92 / 74.94	76.69 / 76.70 LIP	429.76

LINE O2J

LINE O2K

DATUM R.L 56.0

Pipe	PIPE MAX. VELOCITY (m/s)	DISCHARGE (cu.m/s)	PIPE SIZE (mm) & CLASS	DESIGN GRADE	PIPE CHAINAGE (length)
O2K\08 – O2K\07	0.69	0.01	150 FUT UPVC	1%	7.51
O2K\07 – O2K\06	0.95	0.01	150 FUT UPVC	1%	7.5
O2K\06 – O2K\05	1.24	0.02	225 FUT UPVC	1%	7.5

Position	PIPE CHAINAGE	DEPTH TO INVERT	DESIGN HGL (5yr)	INVERT LEVEL	SURFACE LEVEL	ROAD CHAINAGE
O2K\08 (start)	0	0.6	76.17	76.05	76.65	151.23
O2K\07 (end)		0.64	76.09	75.97		
O2K\07 (start)	7.51	0.69	76.06	75.92	76.61	143.85
O2K\06 (end)		0.68	75.95	75.85		
O2K\06 (start)	15.02	0.73	75.9	75.8	76.53	136.49
O2K\05 (end)		0.73	75.82	75.72		
O2K\05	22.52				76.45	129.13

LINE O2K

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
D	LMc	LMc	MP	MP	20/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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:
591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title:
DRAINAGE LONGITUDINAL SECTIONS SHEET 10

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	519	D

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

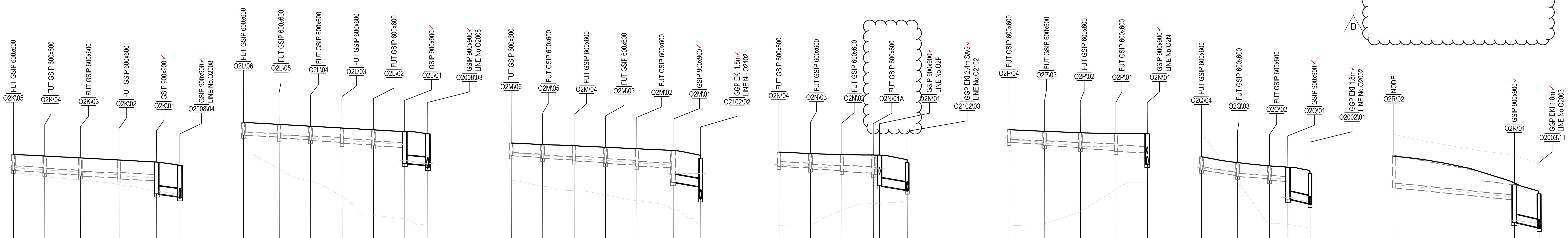
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP

LEGEND

EXISTING SURFACE	
DESIGN SURFACE	
FUTURE SURFACE	
DESIGN STORM HGL	
DESIGN PIPE AND PIT	
DESIGN TEMPORARY PIPE AND PIT	
EXISTING PIPE AND PIT	
FUTURE PIPE AND PIT	

D
*PIPE O2000 UPSIZED
*PIT NUMBERS AMENDED
*HGL LOWERED



LINE O2K

	O2K\05		O2K\04		O2K\03		O2K\02		O2K\01		O2008\04
PIPE MAX. VELOCITY (m/s)		1.21		1.27		1.31		1.55		1.82	
DISCHARGE (cu.m/s)		0.03		0.04		0.04		0.05		0.06	
PIPE SIZE (mm) & CLASS		225 FUT UPVC		225 FUT UPVC		225 FUT UPVC		300 FUT UPVC		375 ✓ RRJ2	
DESIGN GRADE		1%		1%		1%		1%		2.35% (1.97%)	
DATUM R.L	55.0										
DEPTH TO INVERT	0.73 / 0.78		0.77 / 0.82		0.82 / 0.87		0.86 / 0.91		0.89 / 1.52 (1.52)		1.5 (1.57) / 1.55 (1.63)
DESIGN HGL (5yr)	75.82 / 75.8		75.72 / 75.7		75.61 / 75.59		75.48 / 75.42		75.33 / 74.68		74.54 / 74.53
INVERT LEVEL	75.72 / 75.67		75.6 / 75.55		75.46 / 75.41		75.32 / 75.27		75.18 / 74.55 (74.52)		74.42 (74.41) / 74.36 (74.35)
SURFACE LEVEL	76.45		76.37		76.28		76.17		76.07 (76.04)		75.92 (75.98)
ROAD CHAINAGE	129.13		121.76		113.41		104.35		95.51		95.47
PIPE CHAINAGE	22.52	7.5	30.02	8.51	38.53	9.24	47.76	9	56.76	5.55 (5.58)	62.32

LINE O2L

	O2L\06		O2L\05		O2L\04		O2L\03		O2L\02		O2L\01		O2008\03
PIPE MAX. VELOCITY (m/s)		0.76		1.05		1.3		1.23		1.28		1.51	
DISCHARGE (cu.m/s)		0.01		0.02		0.03		0.03		0.04		0.04	
PIPE SIZE (mm) & CLASS		150 FUT UPVC		150 FUT UPVC		225 FUT UPVC		225 FUT UPVC		225 FUT UPVC		375 ✓ RRJ2	
DESIGN GRADE		1.09%		1%		1.02%		1%		1%		1.59% (1.09%)	
DATUM R.L	53.0												
DEPTH TO INVERT	0.61		0.6 / 0.65		0.64 / 0.69		0.68 / 0.73		0.71 / 0.76		0.75 / 1.51 (1.51)		1.5 (1.55) / 1.61 (1.71)
DESIGN HGL (5yr)	75.52		75.42 / 75.37		75.26 / 75.2		75.12 / 75.1		75.01 / 74.99		74.91 / 74.11		74.02 / 73.98
INVERT LEVEL	75.36		75.26 / 75.21		75.14 / 75.09		75.01 / 74.96		74.89 / 74.84		74.76 / 74 (73.99)		73.91 (73.93) / 73.79 (73.77)
SURFACE LEVEL	75.97		75.87		75.78		75.69		75.6		75.51 (75.50)		75.41 (75.48)
ROAD CHAINAGE	86.42		78.05		70.67		63.3		55.94		48.58		48.45
PIPE CHAINAGE	0	8.53	8.53	7.51	16.05	7.51	23.55	7.5	31.05	7.5	38.56	5.51 (5.52)	44.07

LINE O2M

	O2M\06		O2M\05		O2M\04		O2M\03		O2M\02		O2M\01		O2102\02
PIPE MAX. VELOCITY (m/s)		0.69		0.95		1.24		1.21		1.27		1.9	
DISCHARGE (cu.m/s)		0.01		0.01		0.02		0.03		0.04		0.04	
PIPE SIZE (mm) & CLASS		150 FUT UPVC		150 FUT UPVC		225 FUT UPVC		225 FUT UPVC		225 FUT UPVC		375 ✓ RRJ2	
DESIGN GRADE		1%		1%		1%		1%		1%		3.13% (2.55%)	
DATUM R.L	54.0												
DEPTH TO INVERT	0.61		0.61 / 0.66		0.68 / 0.73		0.73 / 0.78		0.78 / 0.83		0.83 / 1.52 (1.53)		1.35 (1.40) / 1.94 (1.96)
DESIGN HGL (5yr)	75.48		75.4 / 75.37		75.26 / 75.21		75.13 / 75.11		75.03 / 75		74.91 / 74.49		74.49 / 74.48
INVERT LEVEL	75.36		75.28 / 75.23		75.15 / 75.1		75.03 / 74.98		74.9 / 74.85		74.77 / 74.08 (74.03)		73.87 (73.86) / 73.28 (73.30)
SURFACE LEVEL	75.96		75.89		75.83		75.76		75.68		75.6 (75.56)		75.23 (75.26 LIP)
ROAD CHAINAGE	671.89		664.71		657.55		650.4		643.25		634.98		634.99
PIPE CHAINAGE	0	7.52	7.52	7.51	15.03	7.5	22.54	7.5	30.04	8.67	38.7	6.6 (6.66)	45.3

LINE O2N

	O2N\04		O2N\03		O2N\02		O2N\01A		O2N\01		O2102\03
PIPE MAX. VELOCITY (m/s)		0.79		1.06		1.2		1.26		1.91	
DISCHARGE (cu.m/s)		0.01		0.02		0.02		0.03		0.07	
PIPE SIZE (mm) & CLASS		225 FUT UPVC		225 FUT UPVC		300 FUT UPVC		300 FUT UPVC		375 ✓ RRJ2	
DESIGN GRADE		1%		1%		1%		1%		3% (2.69%)	
DATUM R.L	54.0										
DEPTH TO INVERT	0.68		0.69 / 0.74		0.76 / 0.81		0.86 / 0.91		0.93 / 1.47 (1.53)		1.3 (1.34) / 1.35 (1.39)
DESIGN HGL (5yr)	74.9		74.82 / 74.8		74.75 / 74.74		74.75 / 74.74		74.74 / 74.71		74.7 / 74.66
INVERT LEVEL	74.83		74.76 / 74.71		74.63 / 74.58		74.51 / 74.46		74.44 / 73.9 (73.87)		73.7 (73.69) / 73.65 (73.64)
SURFACE LEVEL	75.52		75.45		75.39		75.37		75.37 (75.40)		75 (75.03 LIP)
ROAD CHAINAGE	626.65		619.47		612.31		605.15		603.72		604
PIPE CHAINAGE	-15.04	7.53	-7.51	7.51	0	7.5	7.5	1.5	9	6.6 (6.69)	15.6

LINE O2P

	O2P\04		O2P\03		O2P\02		O2P\01		O2N\01
PIPE MAX. VELOCITY (m/s)		0.85		1.2		1.28		1.3	
DISCHARGE (cu.m/s)		0.01		0.02		0.03		0.04	
PIPE SIZE (mm) & CLASS		150 FUT UPVC		225 FUT UPVC		300 FUT UPVC		300 FUT UPVC	
DESIGN GRADE		1%		1%		1%		1%	
DATUM R.L	53.0								
DEPTH TO INVERT	0.61		0.62 / 0.68		0.7 / 0.76		0.8 / 0.85		0.91 / 1.47 (1.53)
DESIGN HGL (5yr)	75.09		74.98 / 74.92		74.83 / 74.78		74.75 / 74.73		74.74 / 74.71
INVERT LEVEL	74.97		74.88 / 74.81		74.73 / 74.67		74.58 / 74.53		74.46 / 73.9 (73.87)
SURFACE LEVEL	75.57		75.5		75.43		75.38		75.37 (75.40)
ROAD CHAINAGE	572.19		580.34		588.46		596.57		603.72
PIPE CHAINAGE	0	8.54	8.54	8.52	17.06	8.5	25.56	7.5	33.06

LINE O2Q

	O2Q\04		O2Q\03		O2Q\02		O2Q\01		O2002\01
PIPE MAX. VELOCITY (m/s)		1.16		1.2		1.42		2.07	
DISCHARGE (cu.m/s)		0.01		0.02		0.03		0.04	
PIPE SIZE (mm) & CLASS		150 FUT UPVC		150 FUT UPVC		225 FUT UPVC		375 ✓ RRJ2	
DESIGN GRADE		3.05%		1.26%		1.2%		4% (3.40%)	
DATUM R.L	54.0								
DEPTH TO INVERT	0.64		0.62 / 0.67		0.61 / 0.69		0.68 / 1.53 (1.54)		1.43 (1.47) / 1.48 (1.59)
DESIGN HGL (5yr)	74.72		74.55 / 74.5		74.35 / 74.25		74.2 / 73.32		73.1
INVERT LEVEL	74.63		74.37 / 74.32		74.22 / 74.14		74.09 / 73.24 (73.23)		73.03 (73.05) / 72.98 (72.93)
SURFACE LEVEL	75.27		74.99		74.83		74.77 (74.77)		74.46 (74.52 LIP)
ROAD CHAINAGE	36.97		45.62		53.25		57.62		57.54
PIPE CHAINAGE	0	8.65	8.65	7.63	16.28	4.37	20.65	5.3 (5.29)	25.95

LINE O2R

	O2R\02		O2R\01		O2003\11
PIPE MAX. VELOCITY (m/s)		1.55		1.62	
DISCHARGE (cu.m/s)		0.05		0.05	
PIPE SIZE (mm) & CLASS		225 FUT UPVC		375 ✓ RRJ2	
DESIGN GRADE		2%		4% (5.11%)	
DATUM R.L	60.0				
DEPTH TO INVERT	1.56		0.72 / 1.8 (1.75)		1.6 (1.62) / 1.65 (1.73)
DESIGN HGL (5yr)	79.92		79.32 / 78.2		78.07 / 78.06
INVERT LEVEL	79.77		79.19 / 78.11 (78.20)		77.88 (77.90) / 77.83 (77.79)
SURFACE LEVEL	81.33		79.92 (79.95)		79.48 (79.52 LIP)
ROAD CHAINAGE			819.5		821.48
PIPE CHAINAGE	0	28.82	28.82	5.87 (5.87)	34.69

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
D	LMc	LMc	MP	MP	20/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title:
DRAINAGE LONGITUDINAL SECTIONS SHEET 11

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	520	D

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

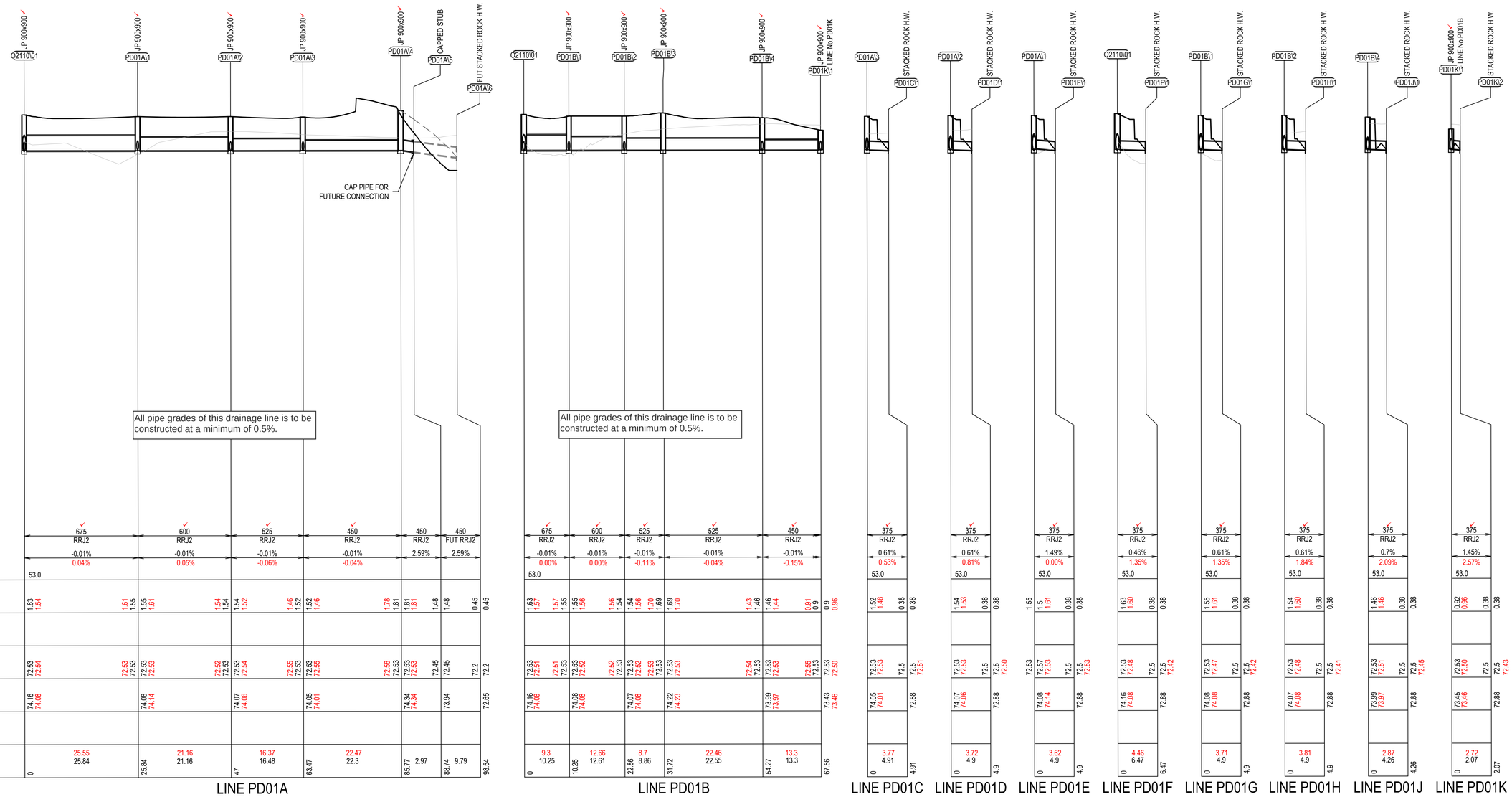
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP

D *PIT
*WE

LEGEND

EXISTING SURFACE	
DESIGN SURFACE	
FUTURE SURFACE	
DESIGN STORM HGL	
DESIGN PIPE AND PIT	
DESIGN TEMPORARY PIPE AND PIT	
EXISTING PIPE AND PIT	
FUTURE PIPE AND PIT	



All pipe grades of this drainage line is to be constructed at a minimum of 0.5%.

All pipe grades of this drainage line is to be constructed at a minimum of 0.5%.

	LINE PD01A							LINE PD01B							LINE PD01C	LINE PD01D	LINE PD01E	LINE PD01F	LINE PD01G	LINE PD01H	LINE PD01J	LINE PD01K	
PIPE MAX. VELOCITY (m/s)																							
DISCHARGE (cu.m/s)																							
PIPE SIZE (mm) & CLASS	675 RRJ2	600 RRJ2	525 RRJ2	450 RRJ2	450 RRJ2	450 FUT RRJ2		675 RRJ2	600 RRJ2	525 RRJ2	525 RRJ2	450 RRJ2			375 RRJ2	375 RRJ2	375 RRJ2	375 RRJ2	375 RRJ2	375 RRJ2	375 RRJ2	375 RRJ2	
DESIGN GRADE	-0.01%	-0.01%	-0.01%	-0.01%	2.59%	2.59%		-0.01%	-0.01%	-0.01%	-0.01%	-0.01%			0.61%	0.61%	1.49%	0.46%	0.61%	0.61%	0.7%	1.45%	
	0.04%	0.05%	-0.06%	-0.04%				0.00%	0.00%	-0.11%	-0.04%	-0.15%			0.53%	0.81%	0.00%	1.35%	1.35%	1.84%	2.09%	2.57%	
DATUM R.L	53.0							53.0							53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	
DEPTH TO INVERT	1.63 1.54	1.55 1.61	1.54 1.54	1.52 1.46	1.78 1.81	1.81 1.81	1.48 1.48	0.45 0.45	1.63 1.57	1.55 1.55	1.55 1.56	1.54 1.56	1.70 1.69	1.69 1.70	1.43 1.46	1.46 1.44	0.91 0.9	0.9 0.96	1.52 1.48	0.38 0.38	1.55	1.5 1.61	0.38 0.38
DESIGN HGL (5yr)																							
INVERT LEVEL	72.53 72.54	72.53 72.53	72.52 72.53	72.53 72.54	72.55 72.55	72.56 72.53	72.53 72.53	72.45 72.45	72.2 72.2	72.53 72.51	72.51 72.53	72.52 72.52	72.53 72.52	72.53 72.53	72.54 72.53	72.53 72.53	72.55 72.53	72.53 72.50	72.53 72.53	72.5 72.51	72.53	72.57 72.53	72.5 72.53
SURFACE LEVEL	74.16 74.08	74.08 74.14	74.07 74.06	74.05 74.01	74.34 74.34	73.94	72.65	73.43 73.46	74.16 74.08	74.08 74.08	74.07 74.08	74.22 74.23	73.99 73.97	73.43 73.46					74.05 74.01	72.88	74.08 74.14	72.88	74.16 74.08	72.88	74.07 74.08	72.88	73.99 73.97	72.88	73.45 73.46	72.88
ROAD CHAINAGE																							
PIPE CHAINAGE	0 25.55 25.84	25.84 21.16 21.16	47 16.37 16.48	63.47 22.47 22.3	85.77 2.97	88.74 9.79	98.54	0 9.3 10.25	10.25 12.66 12.61	22.86 8.7 8.86	31.72 22.46 22.55	54.27 13.3 13.3	67.56		0 3.77 4.91	4.91	0 3.72 4.9	4.9	0 3.62 4.9	4.9	0 4.46 6.47	6.47	0 3.71 4.9	4.9	0 3.81 4.9	4.9	0 2.87 4.26	4.26	0 2.72 2.07	2.07

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: DRAINAGE LONGITUDINAL SECTIONS SHEET 12

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	521	C

WORKS AS EXECUTED

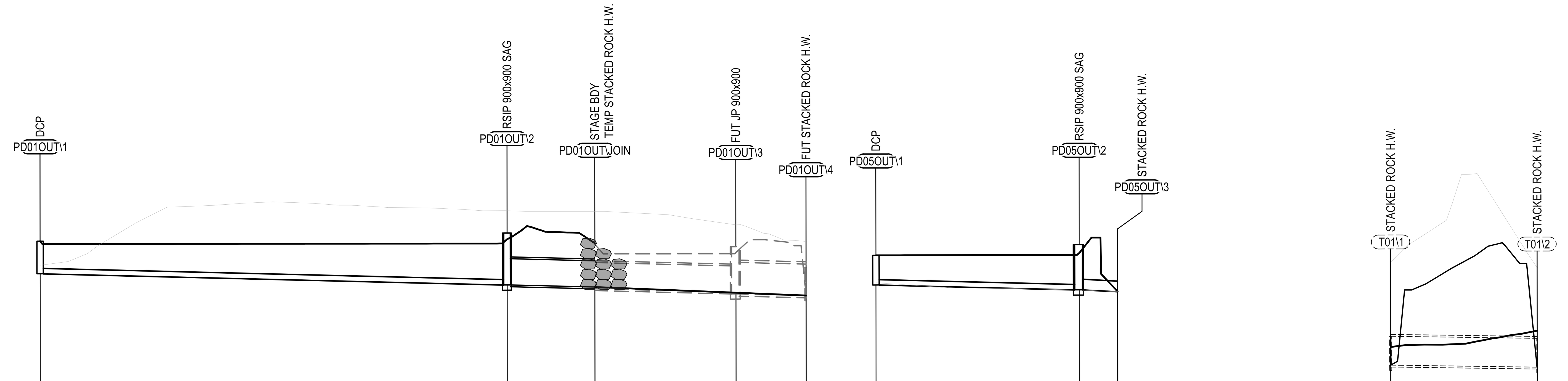
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP

LEGEND

EXISTING SURFACE	
DESIGN SURFACE	
FUTURE SURFACE	
DESIGN STORM HGL	
DESIGN PIPE AND PIT	
DESIGN TEMPORARY PIPE AND PIT	
EXISTING PIPE AND PIT	
FUTURE PIPE AND PIT	

D
*PITS ADDED.
*WEIR AMENDED



PIPE MAX. VELOCITY (m/s)

DISCHARGE (cu.m/s)

LINE PD01OUT

DATUM R.L 52.0

Segment	PIPE SIZE (mm) & CLASS	DESIGN GRADE	DEPTH TO INVERT	DESIGN HGL (5yr)	INVERT LEVEL	SURFACE LEVEL	ROAD CHAINAGE	PIPE CHAINAGE
PD01OUT\1 – PD01OUT\2	(2x)150 RIGID SLOTTED uPVC (SUBSOIL)	0.5%	0.98 / 1.54		71.6 / 71.26	72.58		0 / 66.88
PD01OUT\2 – PD01OUT\JOIN	750 RRJ2	0.5%	1.54 / 1.26		71.26 / 71.2	72.8		66.88 / 12.56
PD01OUT\JOIN – PD01OUT\3	750 FUT RRJ2	0.5%	1.26 / 1.3		71.2 / 71.1	72.47		79.44 / 20.2
PD01OUT\3 – PD01OUT\4	900 FUT RRJ2	0.5%	1.35 / 0.9		71.05 / 71	72.4		99.64 / 10.05
PD01OUT\4			0.9		71	71.9		109.68

LINE PD05OUT

DATUM R.L 50.0

Segment	PIPE SIZE (mm) & CLASS	DESIGN GRADE	DEPTH TO INVERT	DESIGN HGL (5yr)	INVERT LEVEL	SURFACE LEVEL	ROAD CHAINAGE	PIPE CHAINAGE
PD05OUT\1 – PD05OUT\2	(2x)150 RIGID SLOTTED uPVC (SUBSOIL)	0.5%	0.85 / 1.3		69.3 / 69.15	70.15		-39.84 / 29.11
PD05OUT\2 – PD05OUT\3	300 UPVC	1%	1.3 / 0.3		69.15 / 69.1	70.45		-10.73 / 5.5
PD05OUT\3			0.3		69.1	69.4		-5.23

LINE T01

DATUM R.L 54.0

Segment	PIPE SIZE (mm) & CLASS	DESIGN GRADE	DEPTH TO INVERT	DESIGN HGL (5yr)	INVERT LEVEL	SURFACE LEVEL	ROAD CHAINAGE	PIPE CHAINAGE
T01\1 – T01\2	(2x)825 RRJ2	0.3%	0.83 / 0.82		70.99 / 70.93	71.81		0 / 20.98
T01\2			0.82		70.93	71.75		20.98

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

WWW.JAS-ANZ.ORG/REGISTER

Project:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title:
DRAINAGE LONGITUDINAL SECTIONS SHEET 13

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	522	C

NORTH

ROAD 20

SPS ENTRY

PROPOSED ROCK APRON AND LEVEL SPREADER

PROPOSED GATE

1.2m HIGH POST AND RAIL FENCE

TEMPORARY BASIN ACCESS TRACK. PERMANENT DRIVEWAY SUBJECT TO FUTURE DEVELOPMENT APPLICATION APPROVAL. CARPARK TO BE DESIGNED AND CONSTRUCTED AS PART OF SEPARATE APPROVAL

~~PROVIDE REFLECTORISED GUIDEPOSTS AT 5m C/C~~

Reflectorised guide posts not to be installed.

WARNING
ON SITE DETENTION AREA
STORMWATER MAY RISE
IN THIS AREA
DURING HEAVY RAIN

TEMPORARY 1.8m HIGH BARRIER FENCE

0.5m WIDE BERM RL. 70.65

PROVIDE Ø100 RIGID SLOTTED uPVC PIPE SUBSOIL DRAINAGE AT 3.0m CENTRES WITH RODDING POINTS AT THE UPSTREAM END OF THE DRAIN WITH AN APPROPRIATE CAP (TYP.)

DISCHARGE CONTROL PIT

150 uPVC COLLECTOR PIPE

1.2m HIGH POST AND RAIL FENCE

A SPILLWAY IS REQUIRED TO BE CONSTRUCTED ABOVE EDD LEVEL. PROPOSED POSITION AND LEVELS SHALL BE PROVIDED TO COUNCIL PRIOR TO CONSTRUCTION.

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP

SIGNS:

WARNING
ON SITE DETENTION AREA
STORMWATER MAY RISE
IN THIS AREA
DURING HEAVY RAIN

STANDARD FLOODWAY WARNING SIGN AND MOUNTING BRACKET IN ACCORDANCE WITH COUNCIL STANDARD DRAWING SD28.
TO BE PLACED ALONG ALL SIDES OF FENCING AROUND TEMPORARY OSD.

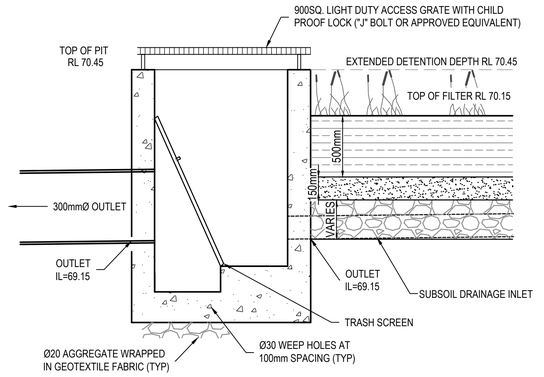
WATER QUALITY BASIN PD05

BIORETENTION SYSTEM
MINIMUM BIO-RETENTION AREA = 850m²
E.D.D. = 300mm
SURFACE LEVEL AT SPLITTER PIT LOCATION IN STREET = 72.21

TOP OF FILTER RL = 70.15
E.D.D. RL = 70.45

SETOUT TABLE BASIN PD05

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	288248.36	6234377.82			
6.26	288247.18	6234371.68	190°55'23.40"		
9.7	288246.5	6234368.16		-10	6.877
13.14	288248.21	6234365.01	151°31'14.84"		
29.71	288256.11	6234350.44	151°31'14.84"		
30.86	288256.73	6234349.3		2	2.301
32.02	288255.94	6234348.27	217°26'14.54"		
43.34	288249.06	6234339.28	217°26'14.54"		
44.93	288247.82	6234337.66		2	3.181
46.53	288246.22	6234338.93	308°33'40.10"		
82.2	288218.32	6234361.17	308°33'40.10"		
83.28	288217.39	6234361.91		2	2.15
84.35	288217.6	6234363.09	10°08'58.44"		
85.43	288217.81	6234364.26		2	2.15
86.5	288218.94	6234364.63	71°44'16.78"		
88.15	288220.5	6234365.15	71°44'16.78"		
97.98	288230.08	6234368.31		-36	19.658
107.81	288236.62	6234375.98	40°27'04.39"		
117.84	288243.13	6234383.61	40°27'04.39"		
118.91	288243.9	6234384.52		2	2.146
119.98	288245.06	6234384.27	101°55'25.97"		
122.48	288247.51	6234383.75	101°55'25.97"		
124.04	288249.43	6234383.35		2	3.107
125.59	288249.06	6234381.42	190°55'23.40"		



DISCHARGE CONTROL PIT PD05OUT/2 SECTION
SCALE N.T.S.

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
E	LMc	LMc	MP	MP	20/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
D	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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)

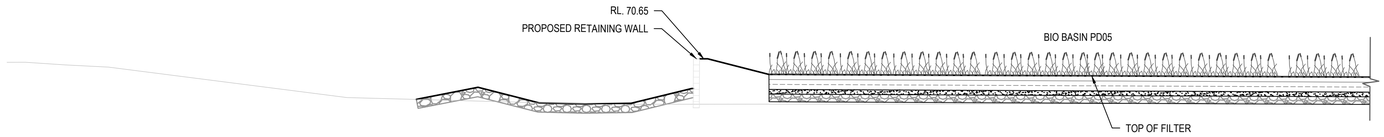
For: mirvac

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

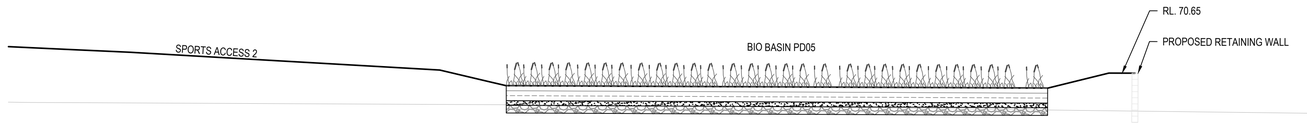
Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: BIO BASIN PD05 PLAN & SETOUT TABLES

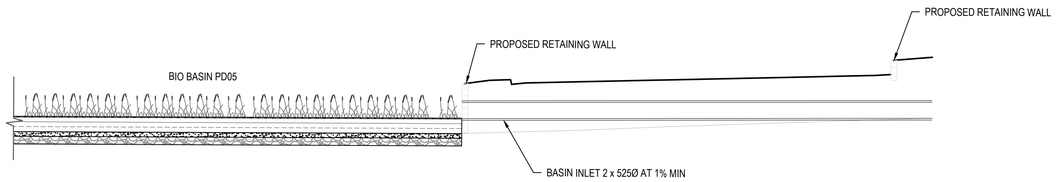
Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	600	E



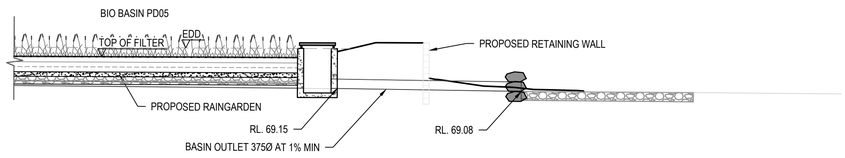
SECTION A
SCALE: 1:100 NATURAL
600



SECTION B
SCALE: 1:100 NATURAL
600



INLET C
SCALE: 1:100 NATURAL
600



OUTLET D
SCALE: 1:100 NATURAL
600

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

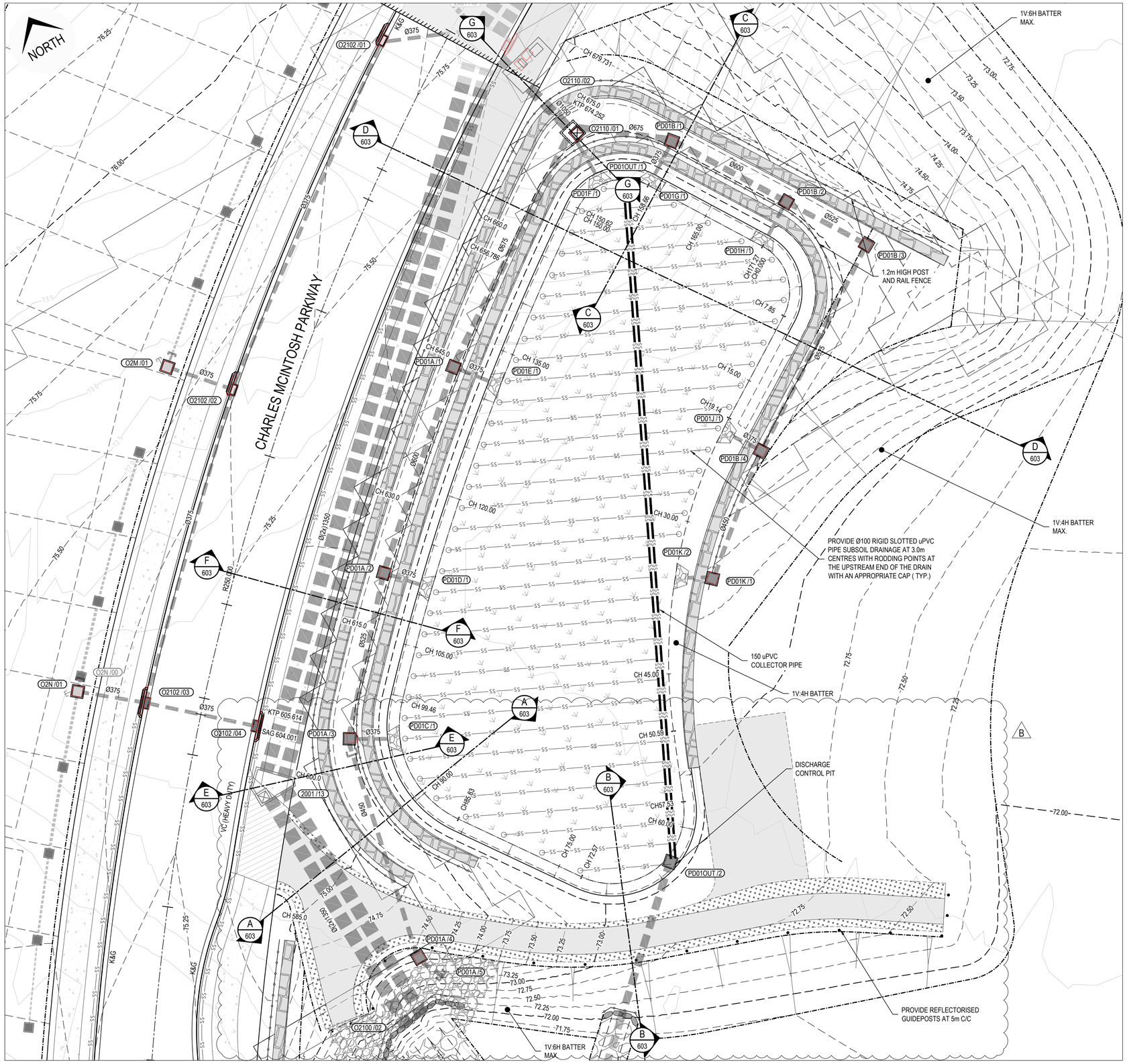
For: mirvac

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

Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title: BIO BASIN PD05 DETAIL SECTIONS

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	601	B



SIGNS:

WARNING
ON SITE DETENTION AREA STORMWATER MAY RISE IN THIS AREA DURING HEAVY RAIN

STANDARD FLOODWAY WARNING SIGN AND MOUNTING BRACKET IN ACCORDANCE WITH COUNCIL STANDARD DRAWING SD28. TO BE PLACED ALONG ALL SIDES OF FENCING AROUND TEMPORARY OSD.

WATER QUALITY BASIN PD01

BIORETENTION SYSTEM
MINIMUM BIO-RETENTION AREA = 1500m²
E.D.D. = 300mm
SURFACE LEVEL AT SPLITTER PIT LOCATION IN STREET = 75.6

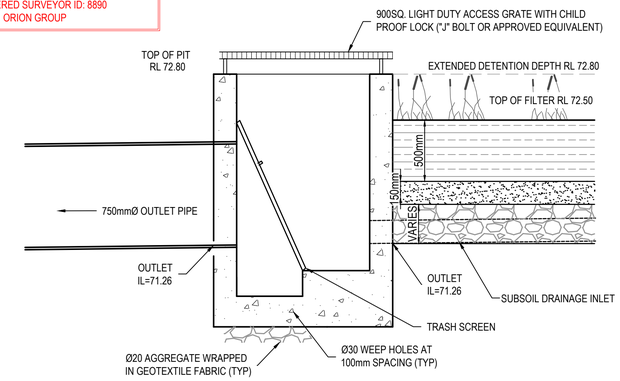
TOP OF FILTER RL = 72.50
E.D.D RL = 72.80

A SPILLWAY IS REQUIRED TO BE CONSTRUCTED ABOVE EDD LEVEL. PROPOSED POSITION AND LEVELS OF SPILLWAY, AND LEVELS OF BERM BETWEEN ENDS OF RWL05, SHALL BE PROVIDED TO COUNCIL PRIOR TO CONSTRUCTION.

SETOUT TABLE PD01 BIO TOP

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	288612.13	6234441.99			
3.93	288614.74	6234437.73		5	7.854
7.85	288610.48	6234435.12	238°29'59.37"		
19.14	288600.86	6234429.22	238°29'59.37"		
34.86	288586.98	6234420.72		-50	31.457
50.59	288580.77	6234405.69	202°27'09.12"		
57.53	288578.12	6234399.27	202°27'09.12"		
61.29	288576.53	6234395.42		7	7.521
65.05	288572.38	6234394.99	264°00'36.23"		
68.81	288568.24	6234394.55		7	7.521
72.57	288565.88	6234397.99	325°34'03.34"		
85.83	288558.38	6234408.92	325°34'03.34"		
92.65	288553.8	6234415.61		10	13.63
99.46	288559.4	6234421.48	43°39'36.53"		
125.04	288577.13	6234440.06		231.15	51.155
150.62	288598.5	6234454.3	56°20'24.38"		
154.64	288602.82	6234457.17		5	8.042
158.66	288605.54	6234452.75	148°29'59.37"		

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



DISCHARGE CONTROL PIT PD01OUT/2 SECTION

SCALE N.T.S.

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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)

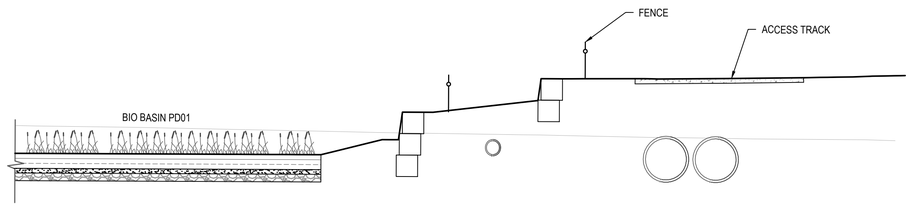
For: mirvac

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

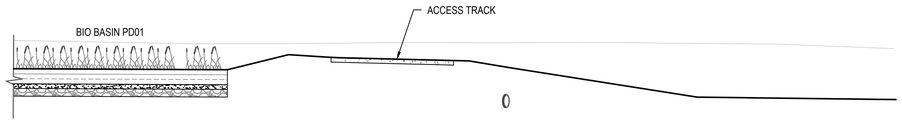
Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: BIO BASIN PD01 PLAN & SETOUT TABLES

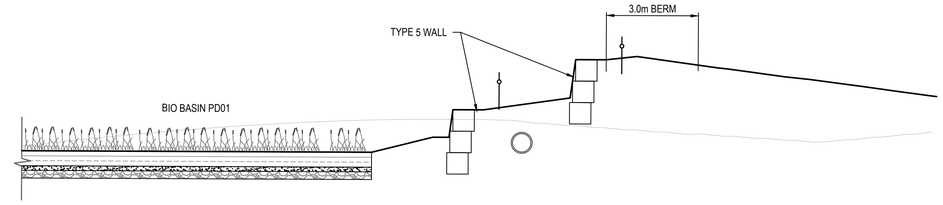
Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	602	C



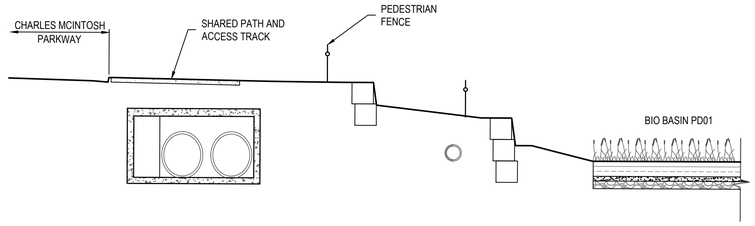
SECTION A
SCALE: 1:100 NATURAL
602



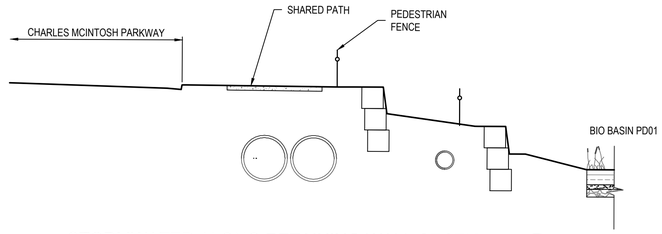
SECTION B
SCALE: 1:100 NATURAL
602



SECTION C
SCALE: 1:100 NATURAL
602



PIT 2001\13 E
SCALE: 1:100 NATURAL
602



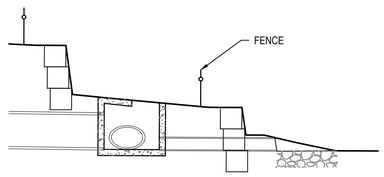
STORMWATER ALONG RETAINING WALL SECTION F
SCALE: 1:100 NATURAL
602

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

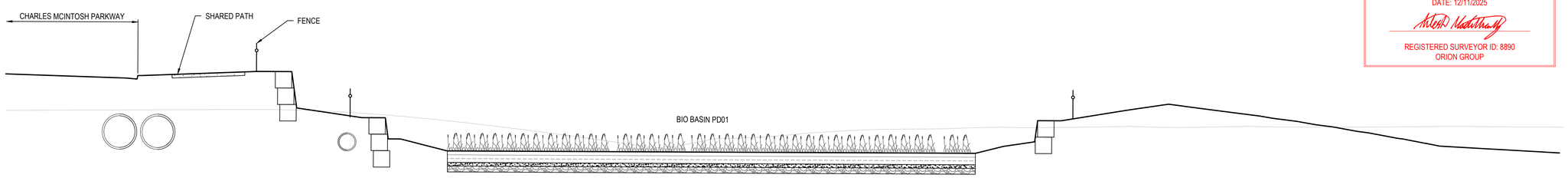
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



INLET
SCALE 1:100

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP



SECTION D
SCALE: 1:100 NATURAL
602

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: BIO BASIN PD01 DETAIL SECTIONS

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	603	B

NORTH

LOTS AND WORKS SUBJECT TO SEPARATE APPROVAL. REFER: DA2023/215/1

LOT 3102, DP 1223680 (MACARTHUR ANGLICAN SCHOOL) INDICATIVE FUTURE DESIGN

LOT 3 DP 1276275

LOT 5 DP 1276275

LOT 174 DP 1289775

LOT 1 DP 1014583

B 611 · D 612 · C 611 · A 611 · E 612

WARNING
ON SITE DETENTION AREA STORMWATER MAY RISE IN THIS AREA DURING HEAVY RAIN

SIGNS:

STANDARD FLOODWAY WARNING SIGN AND MOUNTING BRACKET IN ACCORDANCE WITH COUNCIL STANDARD DRAWING SD28. TO BE PLACED ALONG ALL SIDES OF FENCING AROUND TEMPORARY OSD.

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

D *LOT CONTOURS UPDATED

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

Scale:
0 10 20 30 40 50 60 70 80 90 100
SCALE 1:1000 (A1) SCALE 1:2000 (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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

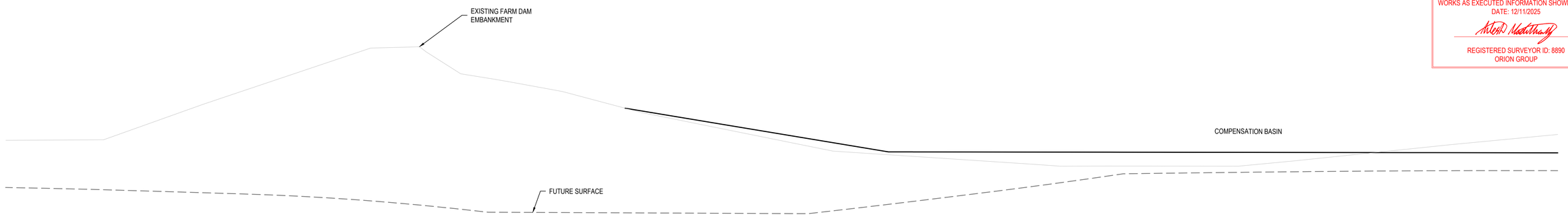
Title: COMPENSATORY FLOOD STORAGE AREA

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	610	C

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP



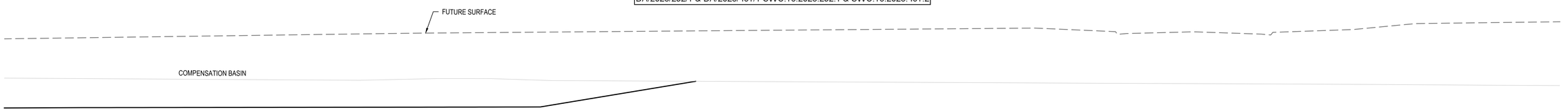
SECTION A
SCALE: 1:100 NATURAL
610

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

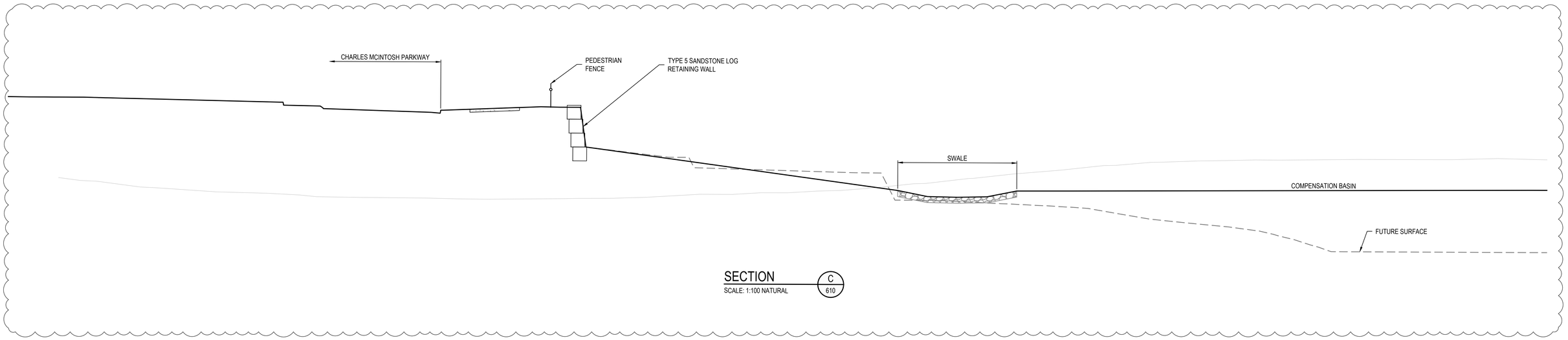
25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



SECTION B
SCALE: 1:100 NATURAL
610



SECTION C
SCALE: 1:100 NATURAL
610

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

For: mirvac

By: ORION

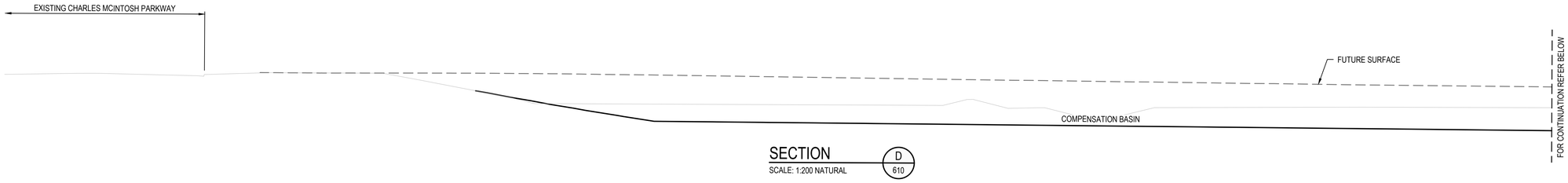
ABN:25 604 069 981 **PO Box:**7936, BAULKHAM HILLS NSW 2153 **T:**(02) 8660 0035 **E:**info@theoriongroup.au

Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

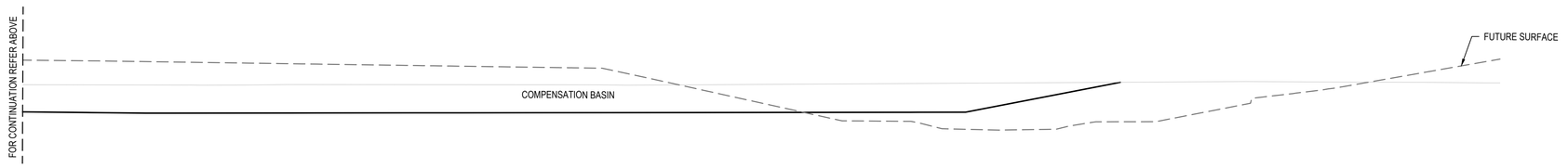
Title: COMPENSATION BASIN SHEET 01

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	611	B

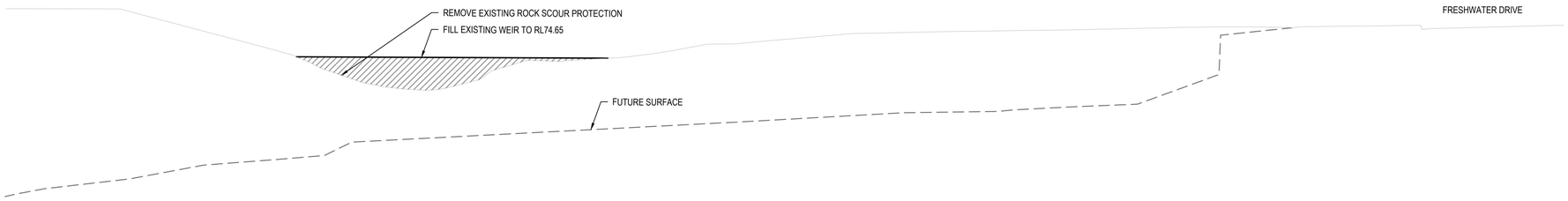
WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



SECTION D
SCALE: 1:200 NATURAL 610



SECTION D
SCALE: 1:200 NATURAL 610



EXISTING WEIR E
SCALE: 1:100 NATURAL 610

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

Scale:
0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100 (A1) SCALE 1:200 (A3)
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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

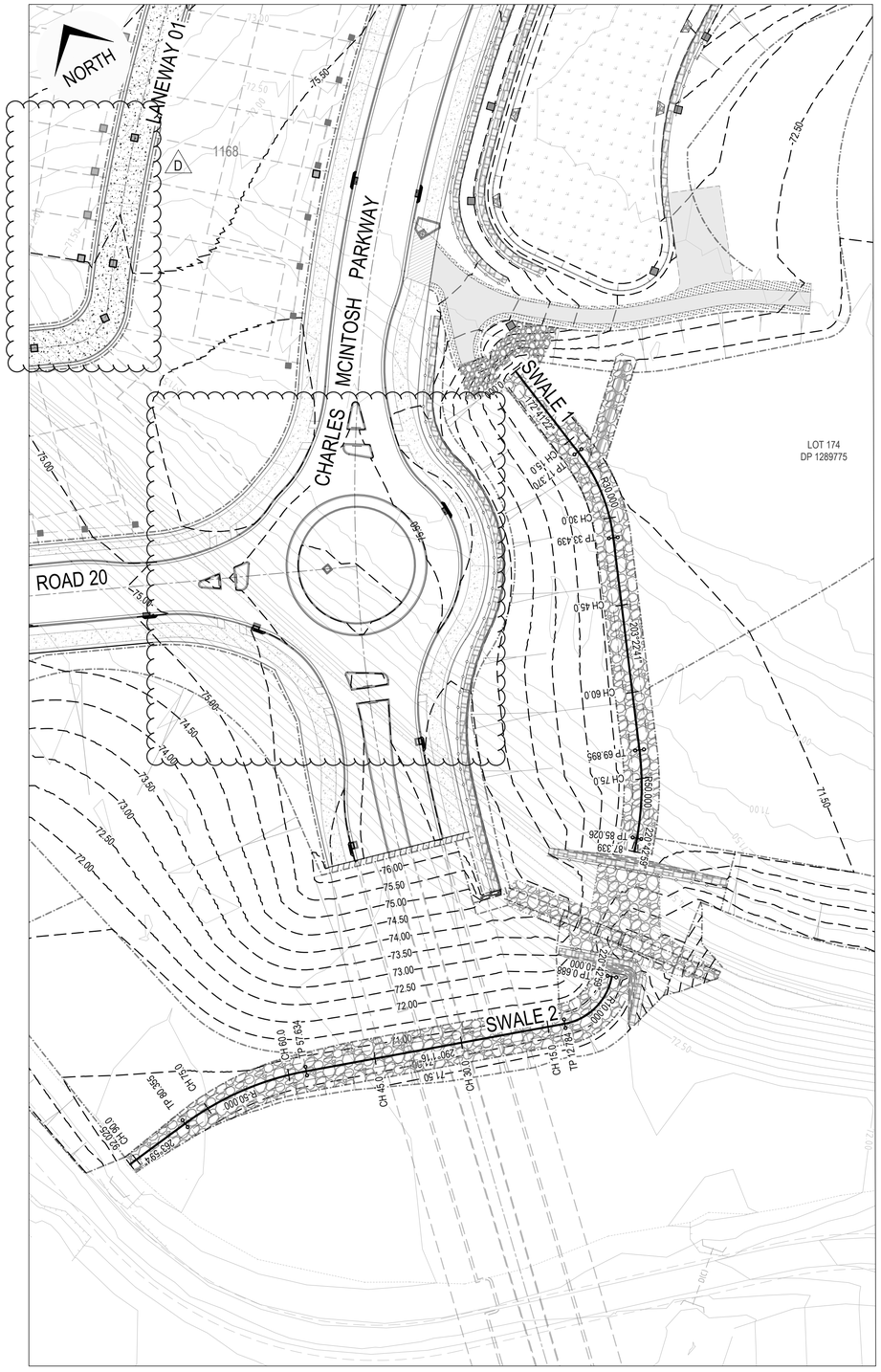
Title: COMPENSATION BASIN SHEET 02

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	612	B

WORKS AS EXECUTED

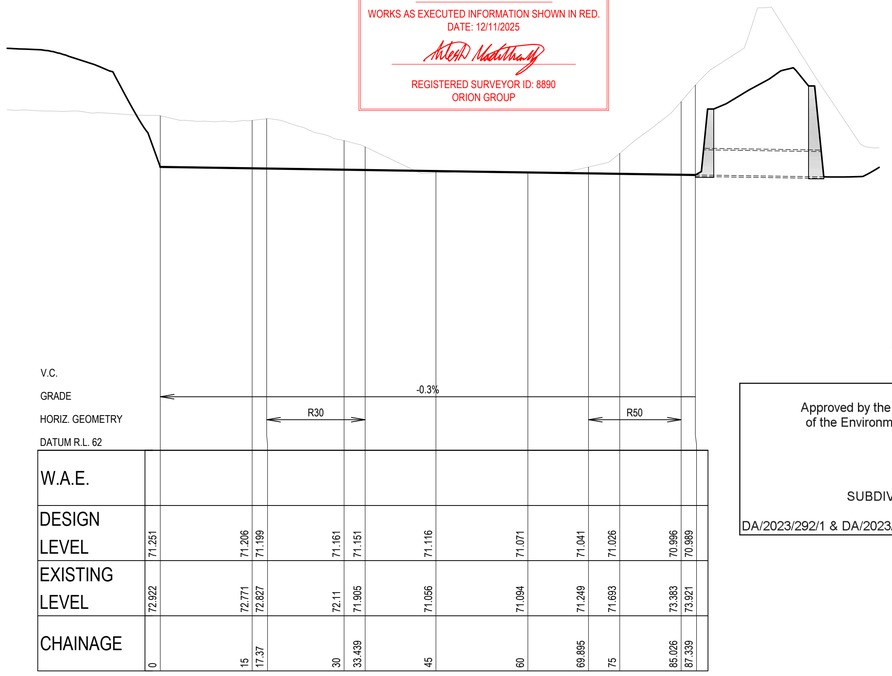
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP



SWALE 1 & 2 - PLAN

SCALE 1:500



LONGITUDINAL SECTION - SWALE 1

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

SETOUT TABLE SWALE 1

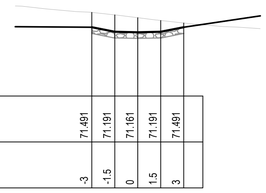
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	288545.02	6234392.13	172°41'21.80"		
17.37	288547.23	6234374.9	172°41'21.80"		
25.4	288548.27	6234366.74		30	16.069
33.44	288545.01	6234359.18	203°22'41.27"		
69.9	288530.54	6234325.72	203°22'41.27"		
77.46	288527.52	6234318.72		50	15.13
85.03	288522.54	6234312.94	220°42'58.83"		
87.34	288521.03	6234311.19	220°42'58.83"		

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

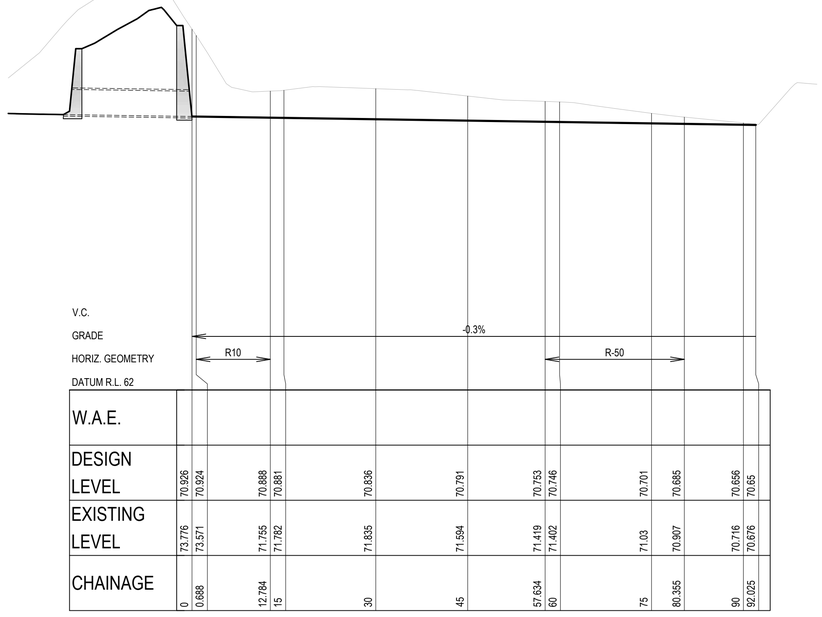


SWALE 1 TYPICAL SECTION

SCALE 1:200

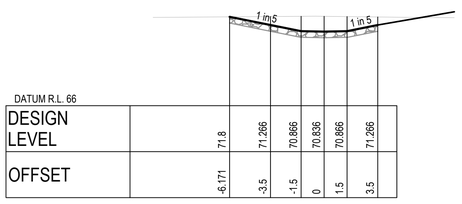
SETOUT TABLE SWALE 2

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	288507.35	6234295.29	220°42'58.83"		
0.69	288506.9	6234294.77	220°42'58.83"		
6.74	288502.39	6234289.53		10	12.096
12.78	288495.9	6234291.89	290°01'15.52"		
57.63	288453.76	6234307.25	290°01'15.52"		
68.99	288442.9	6234311.21		-50	22.721
80.35	288431.4	6234310	263°59'03.84"		
92.02	288419.8	6234308.77	263°59'03.84"		



LONGITUDINAL SECTION - SWALE 2

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



SWALE 2 TYPICAL SECTION

SCALE 1:200

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

Scale:
SCALE 1:100 (A1) SCALE 1:200 (A3)
SCALE 1:200 (A1) SCALE 1:400 (A3)
SCALE 1:500 (A1) SCALE 1:1000 (A3)

For: mirvac

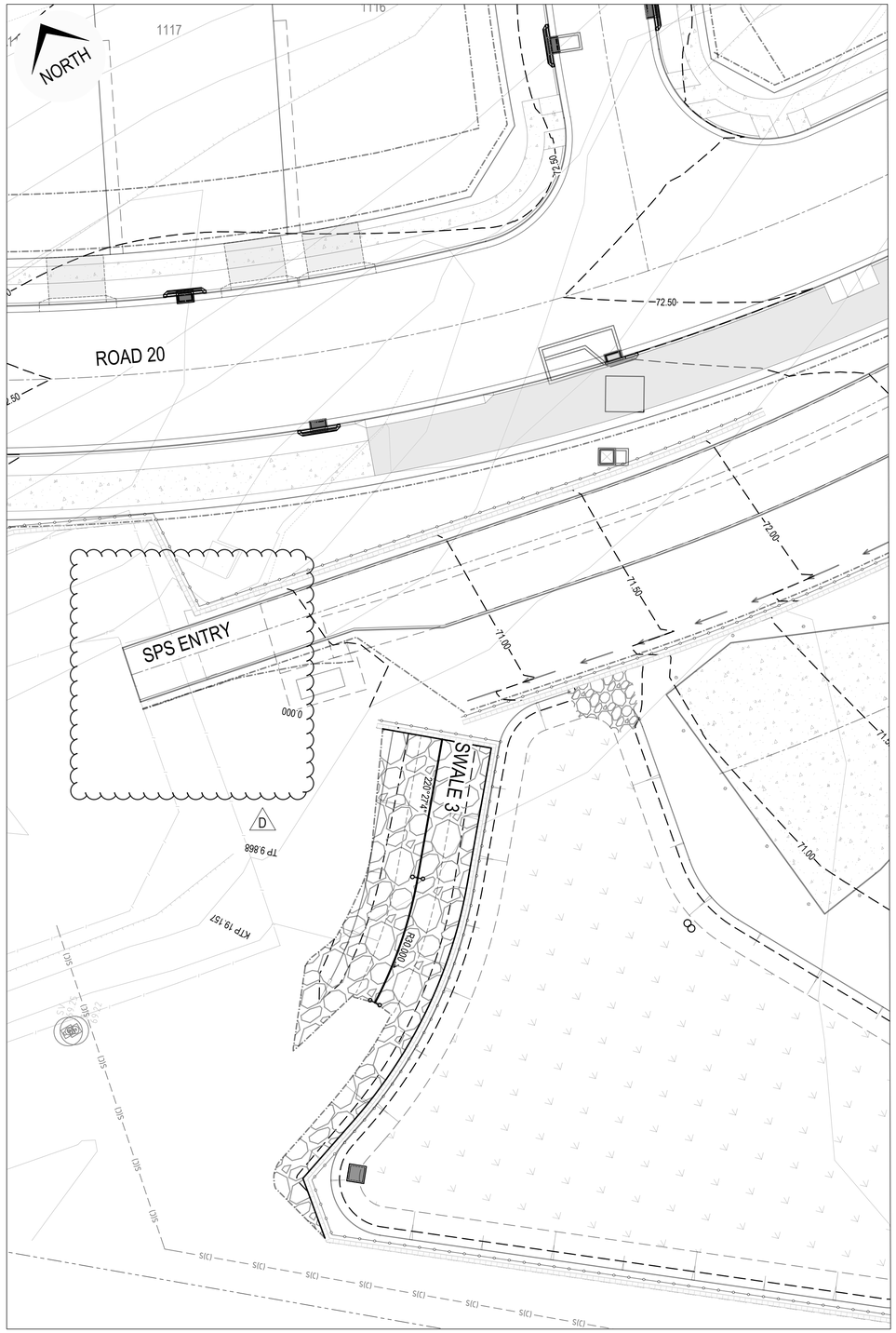
By: ORION

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

Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

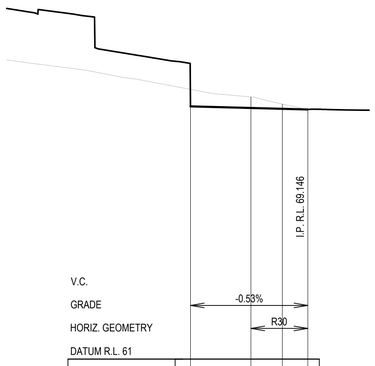
Title: SWALE 1 & 2 PLAN SECTIONS AND SETOUT TABLES

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	620	C



SWALE 3 - PLAN

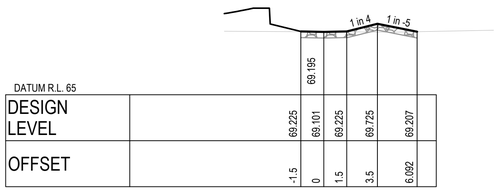
SCALE 1:200



W.A.E.					
DESIGN LEVEL	69.248	69.195	69.168	69.146	
EXISTING LEVEL	69.804	69.554	69.322	69.146	
CHAINAGE	0	9.868	15	19.157	

LONGITUDINAL SECTION - SWALE 3

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



DESIGN LEVEL	69.225	69.101	69.225	69.725	69.207	
OFFSET	-1.5	0	1.5	3.5	6.092	

SWALE 3 TYPICAL SECTION

SCALE 1:200

SETOUT TABLE SWALE 3					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	288238.455	6234387.379	220°27'04.39"		
9.868	288232.052	6234379.87	220°27'04.39"		
14.513	288229.014	6234376.307		30	9.289
19.157	288225.036	6234373.84			
19.158	288225.035	6234373.839	238°11'29.46"		

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
D	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

Scale:
SCALE 1:100 (A1) SCALE 1:200 (A3)
SCALE 1:200 (A1) SCALE 1:400 (A3)
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

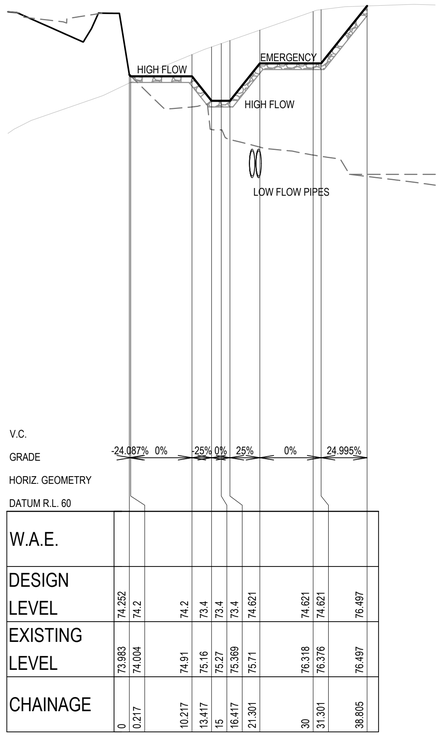
Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: SWALE PLAN 3 SECTION AND SETOUT TABLE

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	621	D

FARM DAM WEIR - PLAN

SCALE 1:200

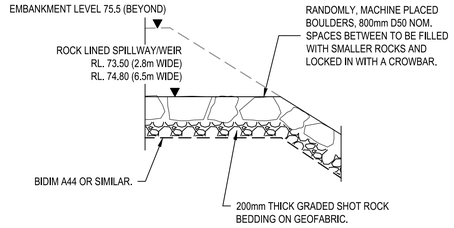


CHAINAGE	0	0.217	10.217	13.417	15	16.417	21.301	30	31.301	38.805
W.A.E.										
DESIGN LEVEL	74.252	74.2	74.2	73.4	73.4	73.4	74.621	74.621	74.621	76.497
EXISTING LEVEL	73.983	74.004	74.91	75.16	75.27	75.369	75.71	76.318	76.376	76.497

LONGITUDINAL SECTION - FARM DAM WEIR

SCALE 1:500 (H)

SCALE 1:100 (V)



MODIFIED FARM DAM SPILLWAY DETAIL

NOT TO SCALE

CALCULATION METHOD ADOPTED FROM CATCHMENTS AND CREEKS PTY LTD 'ROCK SIZING FOR DAM SPILLWAYS' FACT SHEET.

REFER TO TABLE BELOW FOR THE ADOPTED DESIGN VALUES AND CALCULATED AVERAGE ROCK BOULDER DIAMETER

ROCK ARMOUR FOR BASIN SPILLWAY				
Design Velocity (m/s)	Batter (V:H)	Assumed specific gravity	D50 (mm)	Min. Thickness
2.5	1:10	2.4	800	1.6 x D50

SETOUT TABLE FARM DAM WEIR			
CHAINAGE	EASTING	NORTHING	BEARING
0	288498.64	6234316.08	142°07'03.36"
38.81	288522.47	6234285.45	142°07'03.36"

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

For: mirvac

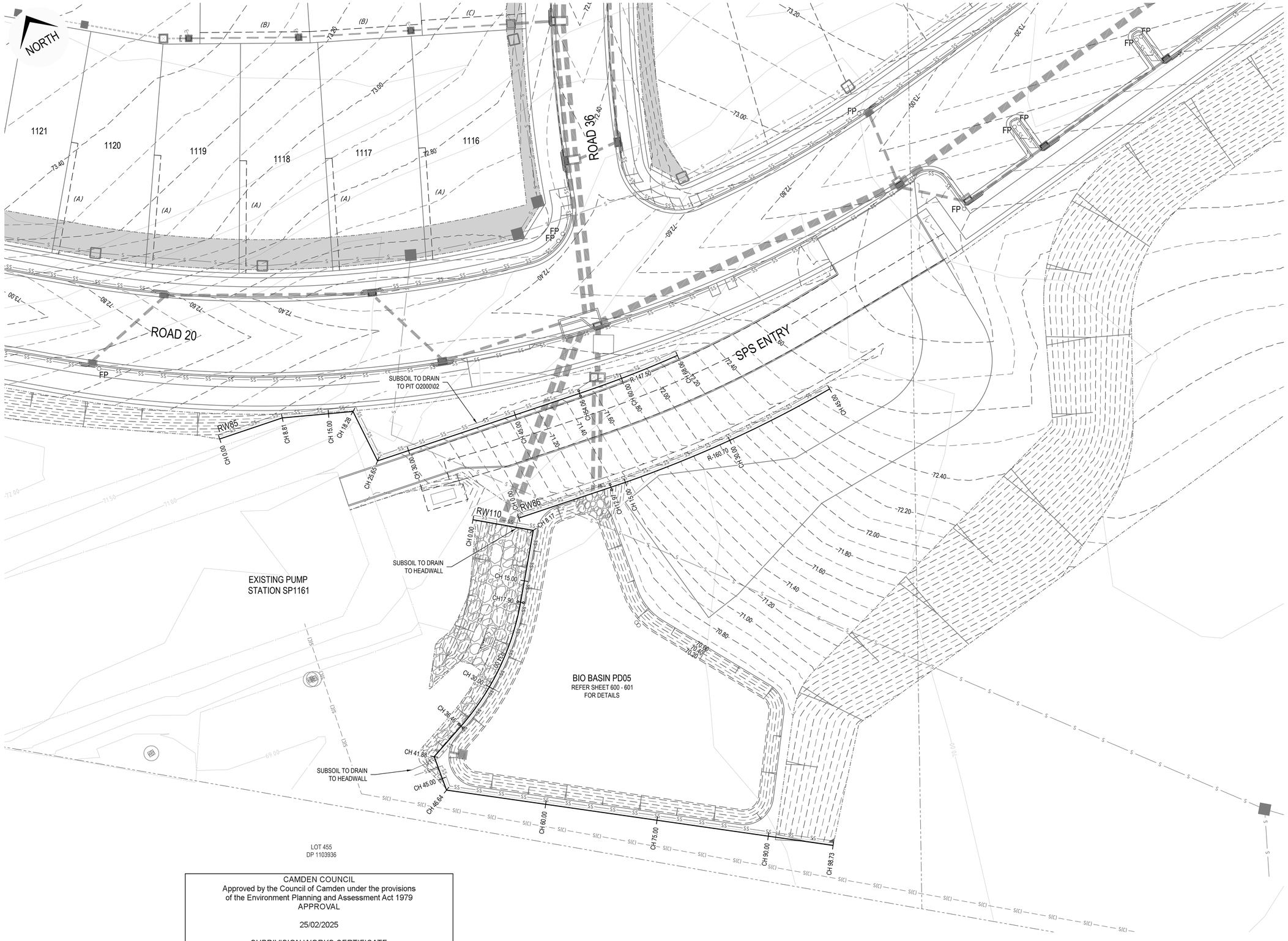
By: ORION

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

Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: FARM DAM WEIR PLAN & DETAILS

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	630	B

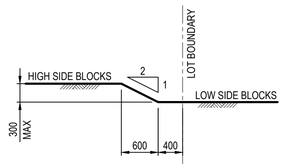


LEGEND

TYPE 1 - CONCRETE SLEEPER	
TYPE 2 - MASONRY BLOCK	
TYPE 3 - CONCRETE SLEEPER (SANDSTONE LOOK)	
TYPE 4 - TEMPORARY STACKED ROCK & TYPE 5 - SANDSTONE LOG	
BATTER VARIES MAX 1V:10H (4.5m WIDE)	
STANDARD LOT BENCHING BATTER MAX HEIGHT 0.3m AT 1V:2H (TYP.) (REFER TO SWC 700 FOR TYPICAL DETAIL)	

EASEMENTS

(A)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE
(B)	EASEMENT FOR DRAINAGE OF WATER 1.5 WIDE
(C)	EASEMENT FOR DRAINAGE OF WATER 2.0 WIDE
(E)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE (RETAINING WALLS)



TYPICAL SIDE BOUNDARY
1V:2H BATTER
NOT TO SCALE

Note:
All retaining wall subsoil lines are to have their own separate drainage connection independent of lot kerb outlets or pit stubs.

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
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
25/02/2025
SUBDIVISION WORKS CERTIFICATE
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

D *CONTOURS AMENDED IN SPS ACCESS, LANEWAY AND LOTS
*PITS ADDED IN LANEWAY
*FOOTPATH ALIGNMENT AMENDED AT ROUNDABOUT

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
D	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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)

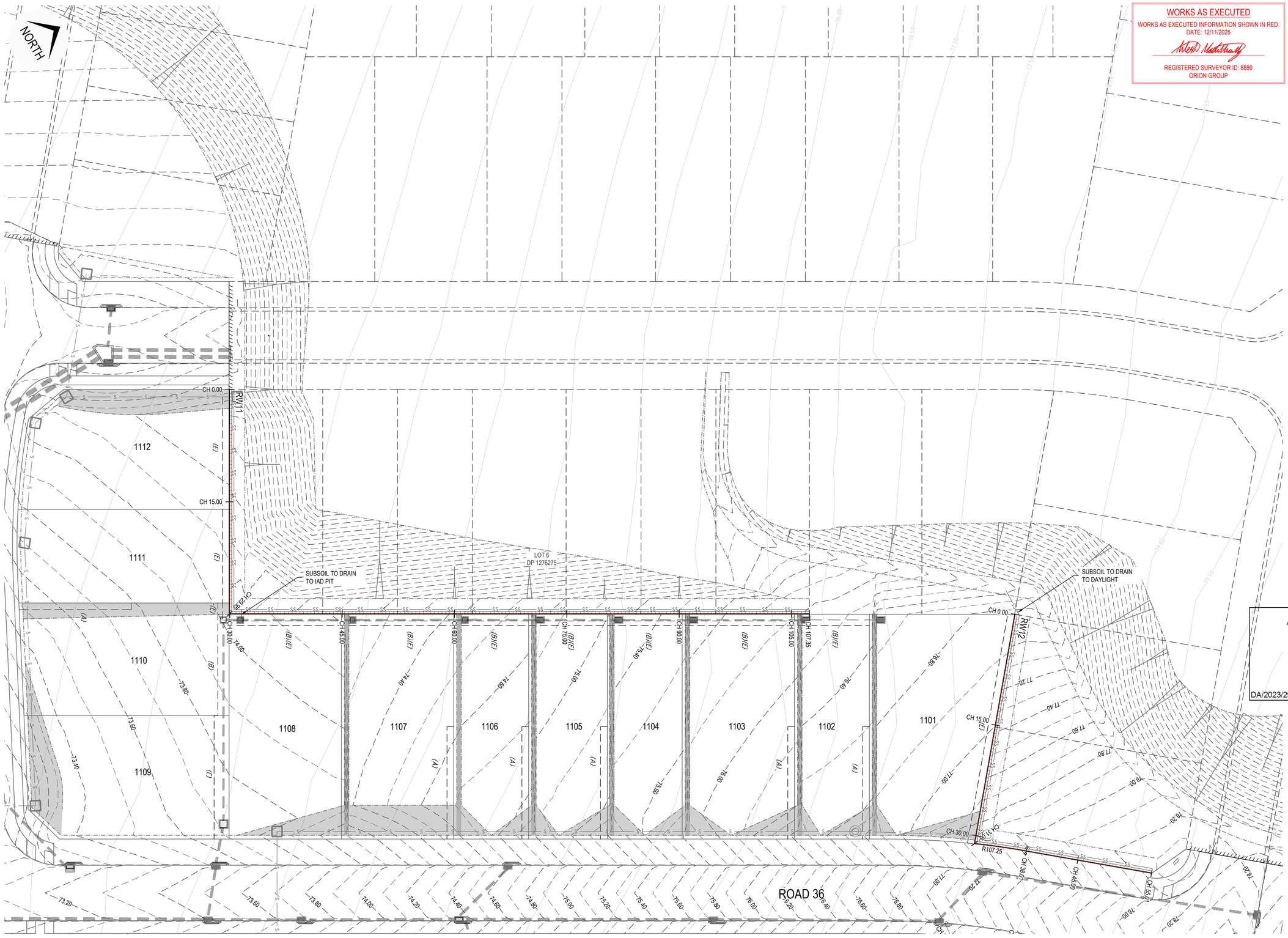
For: mirvac

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

Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: RETAINING WALL PLAN SHEET 01

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	701	D

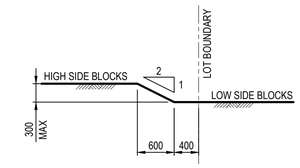


LEGEND

TYPE 1 - CONCRETE SLEEPER	
TYPE 2 - MASONRY BLOCK	
TYPE 3 - CONCRETE SLEEPER (SANDSTONE LOOK)	
TYPE 4 - TEMPORARY STACKED ROCK & TYPE 5 - SANDSTONE LOG	
BATTER VARIES MAX 1V:10H (4.5m WIDE)	
STANDARD LOT BENCHING BATTER MAX HEIGHT 0.3m AT 1V:2H (TYP.) (REFER TO SWC 700 FOR TYPICAL DETAIL)	

EASEMENTS

(A)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE
(B)	EASEMENT FOR DRAINAGE OF WATER 1.5 WIDE
(C)	EASEMENT FOR DRAINAGE OF WATER 2.0 WIDE
(E)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE (RETAINING WALLS)
(E1)	EASEMENT FOR SUPPORT OVER RETAINING WALL 0.9 WIDE



TYPICAL SIDE BOUNDARY
1V:2H BATTER
NOT TO SCALE

Note:
All retaining wall subsoil lines are to have their own separate drainage connection independent of lot kerb outlets or pit stubs.

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

C *PRAM RAMP CHANGED TO SQUARE WINGS

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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)

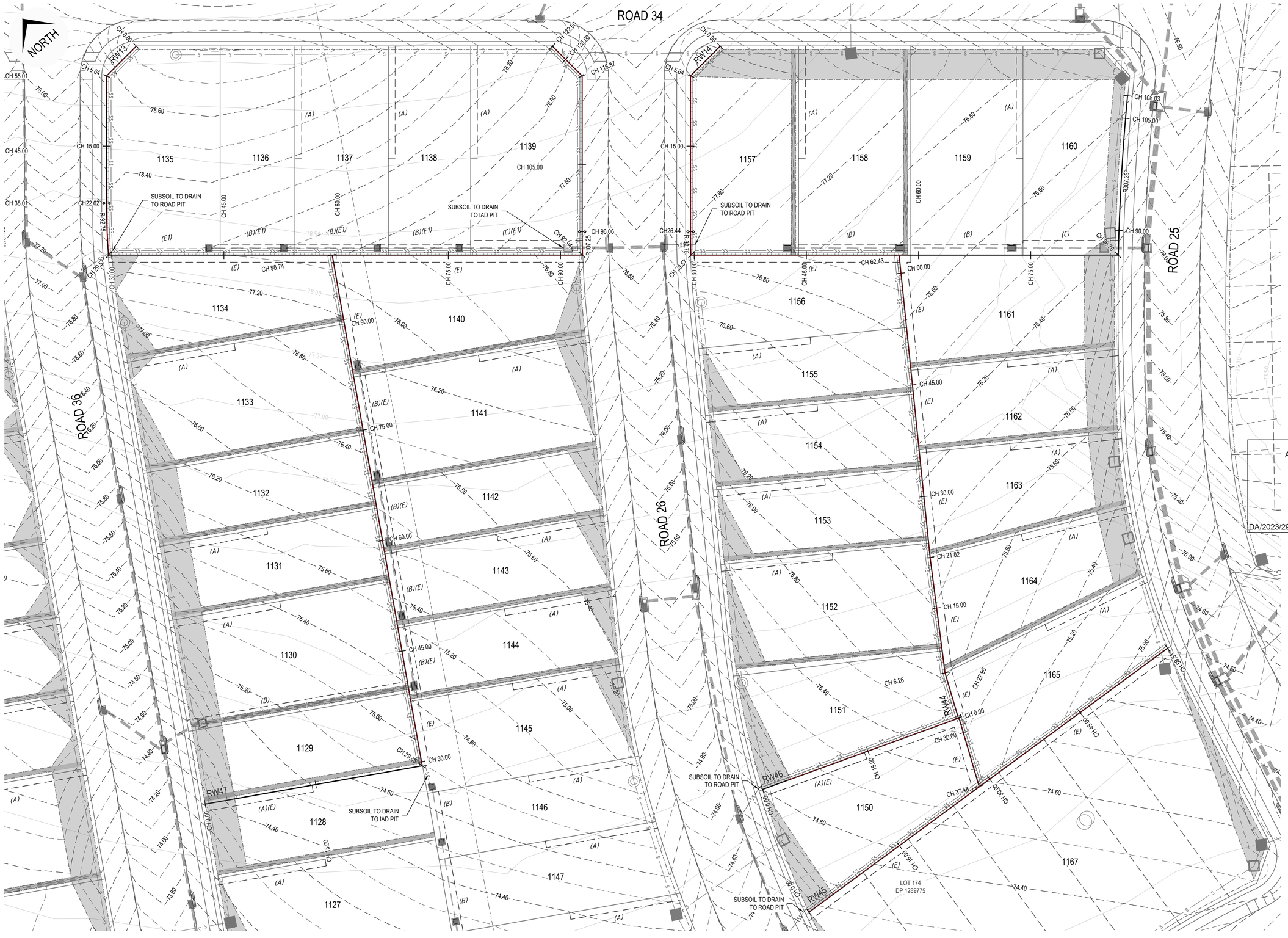
For: mirvac

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

Project: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: RETAINING WALL PLAN SHEET 02

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	702	C



LEGEND

TYPE 1 - CONCRETE SLEEPER	
TYPE 2 - MASONRY BLOCK	
TYPE 3 - CONCRETE SLEEPER (SANDSTONE LOOK)	
TYPE 4 - TEMPORARY STACKED ROCK & TYPE 5 - SANDSTONE LOG	
BATTER VARIES MAX 1V:10H (4.5m WIDE)	
STANDARD LOT BENCHING BATTER MAX HEIGHT 0.3m AT 1V:2H (TYP.) (REFER TO SWC 700 FOR TYPICAL DETAIL)	

EASEMENTS

(A)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE
(B)	EASEMENT FOR DRAINAGE OF WATER 1.5 WIDE
(C)	EASEMENT FOR DRAINAGE OF WATER 2.0 WIDE
(E)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE (RETAINING WALLS)
(E1)	EASEMENT FOR SUPPORT OVER RETAINING WALL 0.9 WIDE

Note:
All retaining wall subsoil lines are to have their own separate drainage connection independent of lot kerb outlets or pit stubs.

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP

C *ROAD 20 KG AMENDED
*MINOR CONTOUR ADJUSTMENTS
*PRAM RAMP CHANGED TO SQUARE WINGS

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: RETAINING WALL PLAN SHEET 03

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	703	C

NORTH

SUBSOIL TO DRAIN TO ROAD PIT

SUBSOIL TO DRAIN TO IAD PIT

RW100

RW102

RW19

RW24

RW23

RW22

RW17

RW15

2114

2113

2112

2111

2110

2109

2108

2107

2106

2101

2102

2103

2104

2105

2115

1169

ROAD 25

ROAD 30

ROAD 40

LANEWAY 01

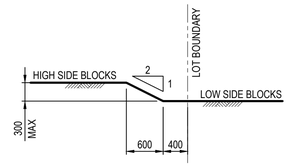
LOT 174
DP 1289775

LEGEND

TYPE 1 - CONCRETE SLEEPER	
TYPE 2 - MASONRY BLOCK	
TYPE 3 - CONCRETE SLEEPER (SANDSTONE LOOK)	
TYPE 4 - TEMPORARY STACKED ROCK & TYPE 5 - SANDSTONE LOG	
BATTER VARIES MAX 1V:10H (4.5m WIDE)	
STANDARD LOT BENCHING BATTER MAX HEIGHT 0.3m AT 1V:2H (TYP.) (REFER TO SWC 700 FOR TYPICAL DETAIL)	

EASEMENTS

(A)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE
(B)	EASEMENT FOR DRAINAGE OF WATER 1.5 WIDE
(C)	EASEMENT FOR DRAINAGE OF WATER 2.0 WIDE
(E)	EASEMENT FOR SUPPORT, ACCESS & MAINTENANCE 0.9 WIDE (RETAINING WALLS)



TYPICAL SIDE BOUNDARY
1V:2H BATTER
NOT TO SCALE

Note:
All retaining wall subsoil lines are to have their own separate drainage connection independent of lot kerb outlets or pit stubs.

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

D *CONTOURS AMENDED IN SPS ACCESS, LANEWAY AND LOTS
*PITS ADDED IN LANEWAY
*FOOTPATH ALIGNMENT AMENDED AT ROUNDABOUT

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
D	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title:
RETAINING WALL PLAN
SHEET 04

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	704	D

NORTH

LANEWAY 01

PARKWAY

MCINTOSH

CHARLES

1168

LOT 5
DP 1276275

BIO BASIN PD01
REFER SHEET 602 - 603
FOR DETAILS

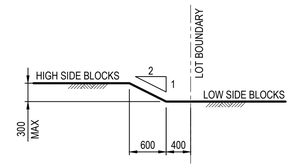
SUBSOIL TO DRAIN
TO ROAD PIT

RWL05

RWL04

LEGEND

TYPE 1 - CONCRETE SLEEPER	
TYPE 2 - MASONRY BLOCK	
TYPE 3 - CONCRETE SLEEPER (SANDSTONE LOOK)	
TYPE 4 - TEMPORARY STACKED ROCK & TYPE 5 - SANDSTONE LOG	
BATTER VARIES MAX 1V:10H (4.5m WIDE)	
STANDARD LOT BENCHING BATTER MAX HEIGHT 0.3m AT 1V:2H (TYP.) (REFER TO SWC 700 FOR TYPICAL DETAIL)	



TYPICAL SIDE BOUNDARY
1V:2H BATTER
NOT TO SCALE

Note:
All retaining wall subsoil lines are to have their own separate drainage connection independent of lot kerb outlets or pit stubs.

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP

D *CONTOURS AMENDED IN SPS ACCESS, LANEWAY AND LOTS
*PITS ADDED IN LANEWAY
*FOOTPATH ALIGNMENT AMENDED AT ROUNDABOUT

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
D	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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)

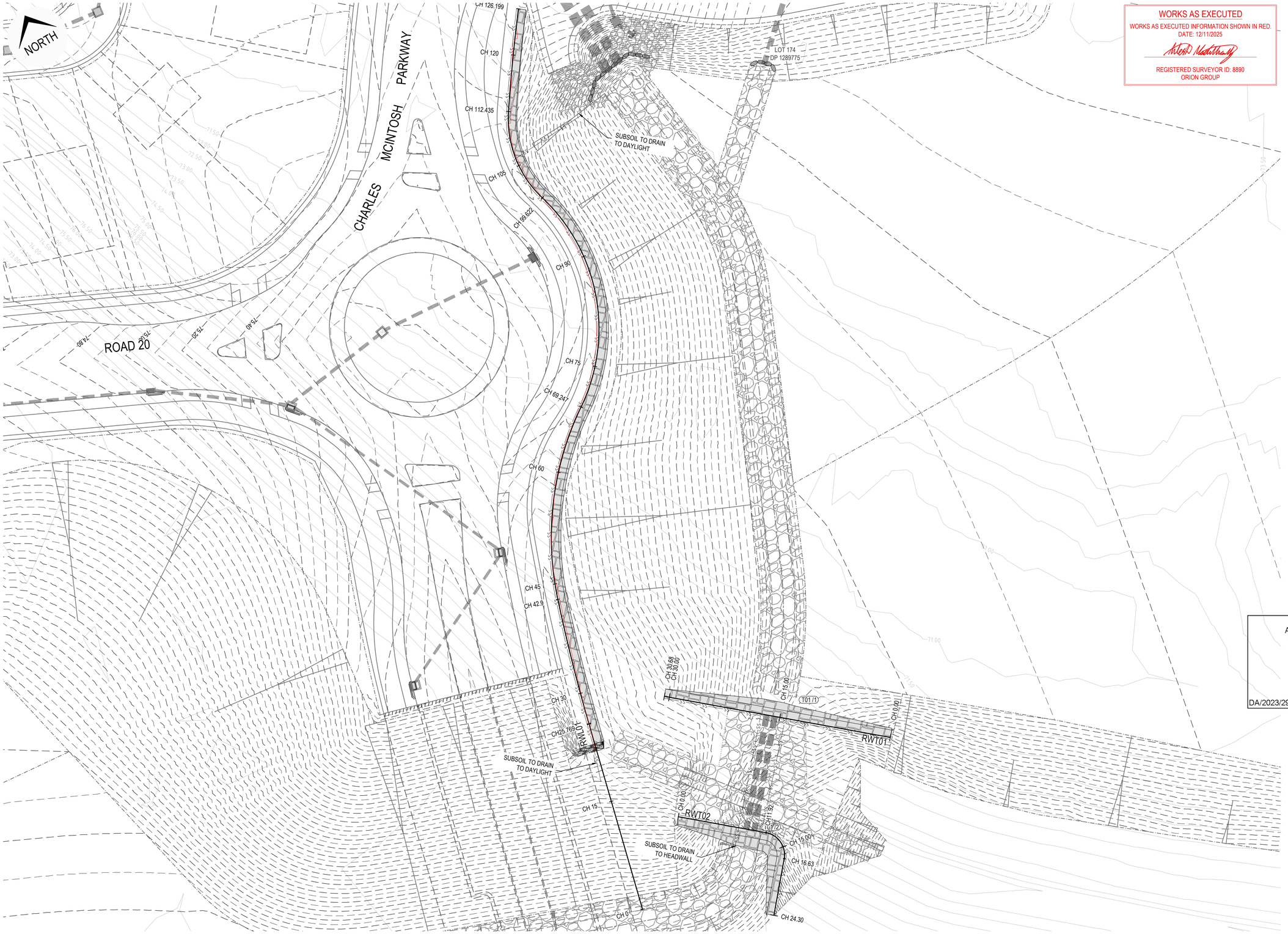
For: mirvac

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

Project:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title:
RETAINING WALL PLAN
SHEET 05

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	705	D



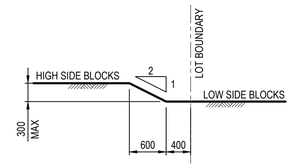
WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP

LEGEND

TYPE 1 - CONCRETE SLEEPER	
TYPE 2 - MASONRY BLOCK	
TYPE 3 - CONCRETE SLEEPER (SANDSTONE LOOK)	
TYPE 4 - TEMPORARY STACKED ROCK & TYPE 5 - SANDSTONE LOG	
BATTER VARIES MAX 1V:10H (4.5m WIDE)	
STANDARD LOT BENCHING BATTER MAX HEIGHT 0.3m AT 1V:2H (TYP.) (REFER TO SWC 700 FOR TYPICAL DETAIL)	



TYPICAL SIDE BOUNDARY
1V:2H BATTER
NOT TO SCALE

Note:
All retaining wall subsoil lines are to have their own separate drainage connection independent of lot kerb outlets or pit stubs.

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

D *CONTOURS AMENDED IN SPS ACCESS, LANEWAY AND LOTS
*PITS ADDED IN LANEWAY
*FOOTPATH ALIGNMENT AMENDED AT ROUNDABOUT

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
D	WP	LMc	MP	MP	10/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

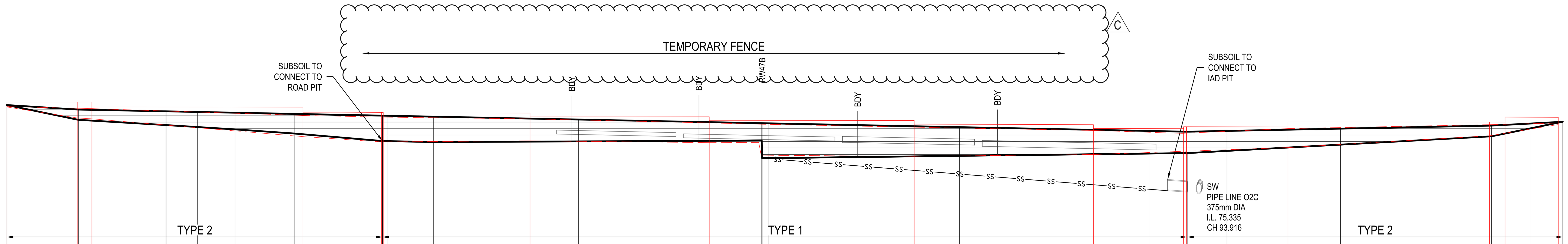
Title: RETAINING WALL PLAN SHEET 06

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	706	D

LEGEND	
PROPOSED STORMWATER PIPE	0

NOTE:
- **ALL** RETAINING WALLS TO BE DESIGNED AND CERTIFIED BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER. REFER TO STRUCTURAL PLANS FOR DETAILS.
- **ALL** WALLS TO BE TYPE 1 UNO.
- 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'.

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



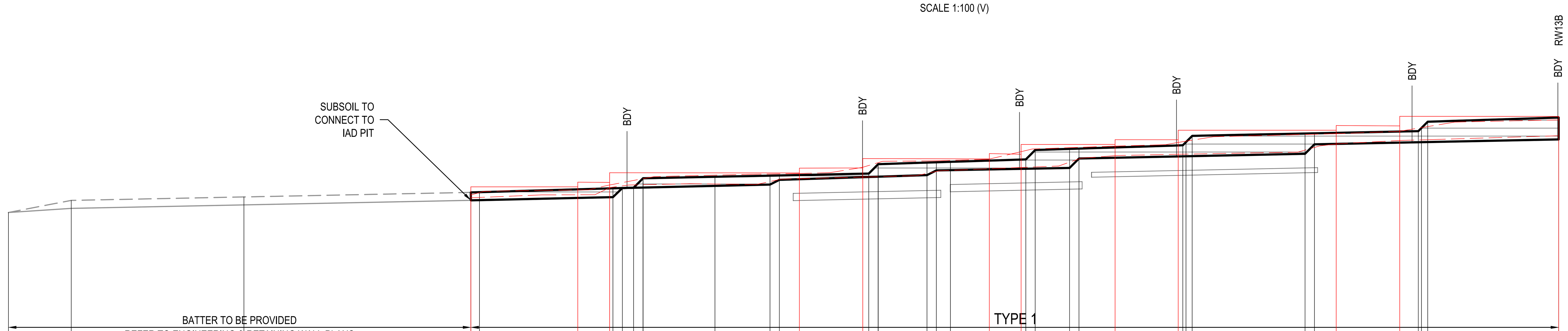
DATUM R.L. 71 — TOP OF WALL LEVEL

CHAINAGE	RETAINED HEIGHT	SURFACE LEVEL AT TOP	SURFACE LEVEL AT BASE
0	0	78.731	78.73
5.626	0.403	78.553	78.15
5.636	0.405	78.554	78.15
12.545	0.542	78.485	77.94
15	0.594	78.46	77.87
17.97	0.658	78.43	77.77
22.616	0.774	78.384	77.61
22.626	0.774	78.384	77.61
29.572	1.007	78.321	77.31
29.582	1.006	78.32	77.31
30	1.001	78.311	77.31
33.582	1.001	78.275	77.27
45	0.862	78.161	77.3
59.434	0.686	78.017	77.33
59.467	1.379	78.016	76.64
60	1.371	78.011	76.64
75	1.131	77.861	76.73
90	0.891	77.711	76.82
92.925			76.84
92.935			76.84
96.06	0.788	77.713	76.92
105	0.631	77.802	77.17
116.865	0.422	77.921	77.5
116.895	0.421	77.921	77.5
120	0.188	78.005	77.82
122.501	0	78.073	78.07

Works as executed (red):

CHAINAGE	TOP OF WALL LEVEL	RETAINED HEIGHT	SURFACE LEVEL AT TOP	SURFACE LEVEL AT BASE
	78.85	0.01	78.67	78.66
5.58	78.86	0.38	78.60	78.22
6.69	78.86 / 78.66	0.40	78.59	78.19
23.32	78.65 / 78.45	0.83	78.32	77.49
29.49	78.44	0.97	78.25	77.28
29.64	78.42			
41.20	78.42 / 78.27	0.87	78.19	77.32
55.31	78.27 / 78.11	0.78	78.03	77.25
		0.72 / 1.23	77.98	77.26 / 76.75
71.44	78.12 / 77.98	1.15	77.86	76.71
85.55	77.96 / 77.81	0.95	77.73	76.78
92.65	77.81	0.73	77.61	76.88
92.85	77.88			
100.87	77.87 / 78.06	0.75	77.81	77.06
116.74	78.25	0.44	77.96	77.52
117.97	78.06 / 78.25			
122.15	78.25	0.06	78.02	77.96

RETAINING WALL PROFILE - RW13
SCALE 1:200 (H)
SCALE 1:100 (V)



DATUM R.L. 67 — TOP OF WALL LEVEL

CHAINAGE	RETAINED HEIGHT	SURFACE LEVEL AT TOP	SURFACE LEVEL AT BASE
0	0.002	74.312	74.31
4	0.253	74.696	74.44
15	0.253	74.806	74.55
29.45			74.7
30	0.253	74.957	74.7
38.503	0.281	75.081	74.8
39.103	0	75.09	75.09
39.82	0.002	75.1	75.1
40.42	0.295	75.4	75.1
40.42	0.295	75.4	75.1
45	0.289	75.448	75.16
48.503	0.284	75.484	75.2
49.103	0.141	75.491	75.35
54.797	0.109	75.55	75.44
55.394	0.398	75.848	75.45
55.397	0.399	75.85	75.45
58.503	0.4	75.9	75.5
59.103	0.259	75.909	75.65
60	0.265	75.923	75.66
64.797	0.296	76	75.7
65.397	0.59	76.3	75.71
67.584	0.605	76.335	75.73
68.184	0.314	76.344	76.03
74.797	0.351	76.45	76.1
75	0.45	76.551	76.1
75.397	0.645	76.75	76.11
82.584	0.645	76.825	76.18
83.184	0.351	76.831	76.48
89.797	0.353	76.9	76.55
90	0.452	77.001	76.55
90.397	0.647	77.2	76.55
98.739	0.695	77.332	76.64

Works as executed (red):

CHAINAGE	TOP OF WALL LEVEL	RETAINED HEIGHT	SURFACE LEVEL AT TOP	SURFACE LEVEL AT BASE
29.45	75.13	0.09 / 0.2	74.87 / 74.98	74.78
36.26	75.13 / 75.28	0.15	75.03	74.88
38.29	75.27 / 75.58	0.07	75.18	75.11
		0.24	75.45	75.21
		0.33	75.53	75.20
		0.17	75.54	75.37
50.38	75.57 / 75.72	0.17	75.58	75.41
54.41	75.73 / 76.03	0.49	75.94	75.45
		0.47	75.95	75.48
		0.32	75.96	75.64
62.48	76.02 / 76.19	0.31	76.01	75.70
64.50	76.17 / 76.48	0.57	76.33	75.76
		0.57	75.36	75.79
		0.35	73.39	76.04
70.48	76.48 / 76.63	0.3	76.42	76.12
74.51	76.63 / 76.93	0.31	76.47	76.16
		0.54	76.72	76.18
		0.56	76.79	76.23
84.57	76.93 / 77.08	0.32	76.82	76.50
88.61	77.07 / 77.37	0.28	76.89	76.61
		0.53	77.19	76.66
98.74	77.37	0.51	77.26	76.75

RETAINING WALL PROFILE - RW47
SCALE 1:200 (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
25/02/2025
SUBDIVISION WORKS CERTIFICATE
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

Scale:
0 1 2 3 4 5 6 7 8 9 10 — SCALE 1:100 (A1) — SCALE 1:200 (A3)
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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: RETAINING WALL PROFILES SHEET 01

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	711	C

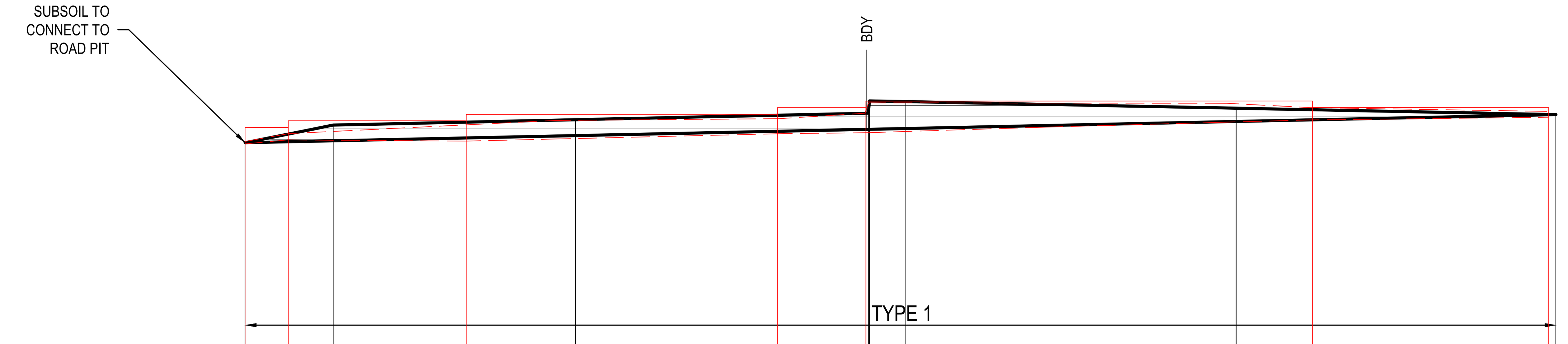
WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

REGISTERED SURVEYOR ID: 8890
ORION GROUP

LEGEND	
PROPOSED STORMWATER PIPE	0

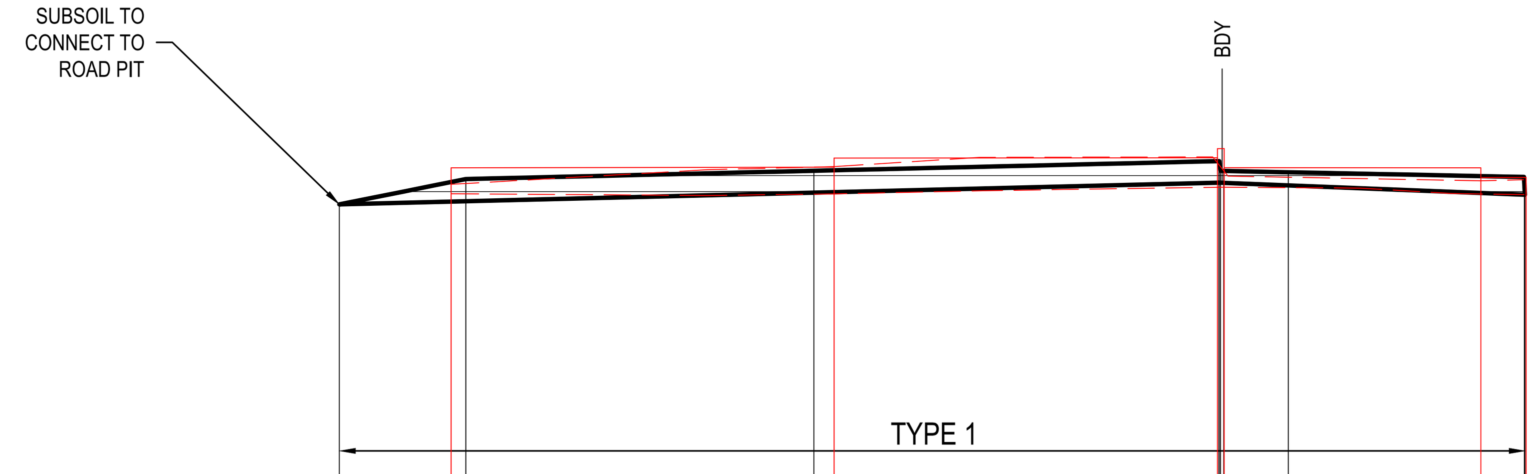
NOTE:
- **ALL** RETAINING WALLS TO BE DESIGNED AND CERTIFIED BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER. REFER TO STRUCTURAL PLANS FOR DETAILS.
- **ALL** WALLS TO BE TYPE 1 UNO.
- WALL DESIGN TO ENSURE NO PIERS ARE POSITIONED OVER PROPOSED STORMWATER PIPES AT CROSSINGS.
- WALLS HAVE BEEN MODELED TO SUIT BENCH LOCATIONS, WALL STEPS TO STRUCTURAL DESIGN.
- WALL TYPES TO BE IN ACCORDANCE WITH THE 'MIRVAC LOT BENCHING SPECIFICATION'.



DATUM R.L. 66

CHAINAGE	TOP OF WALL LEVEL	RETAINED HEIGHT	SURFACE LEVEL AT TOP	SURFACE LEVEL AT BASE
0		0	74.284	74.28
	74.63	0.05	74.31	74.26
1.96	74.63 / 74.78	0.14	74.49	74.35
4		0.357	74.684	74.33
10.04	74.78 / 74.93	0.37	74.69	74.32
		0.42	74.79	74.37
15		0.362	74.806	74.44
24.17	74.93 / 75.08	0.34	74.83	74.49
	75.08	0.44	74.95	74.51
28.297		0.369	74.956	74.59
28.19	75.23	0.68	75.19	
28.347		0.644	75.232	74.59
30		0.612	75.218	74.61
		0.55	75.19	74.64
		0.43	75.18	74.75
45		0.302	75.068	74.77
48.50	75.23 / 75.09	0.28	75.08	74.80
59.19	75.08	0.14	75.00	74.86
59.513		0.002	74.923	74.92

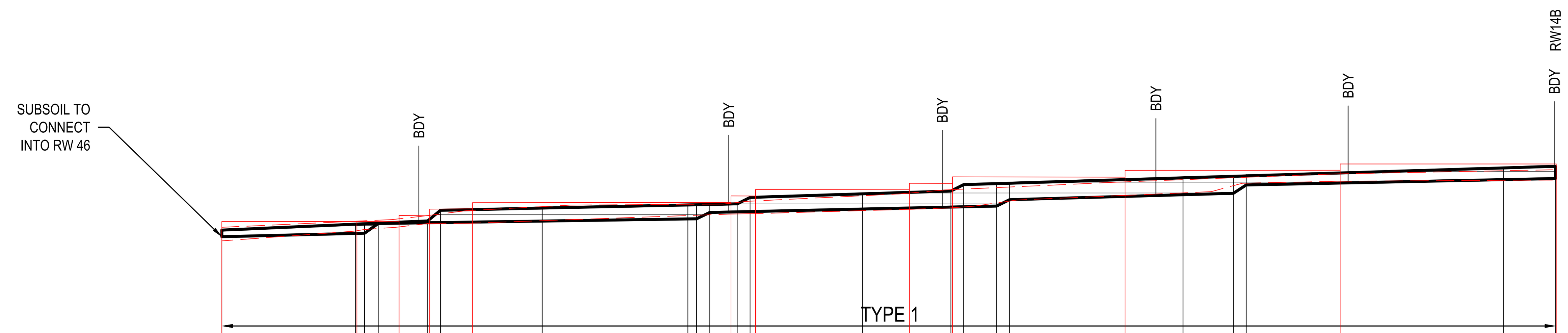
RETAINING WALL PROFILE - RW45
SCALE 1:200 (H)
SCALE 1:100 (V)



DATUM R.L. 67

CHAINAGE	TOP OF WALL LEVEL	RETAINED HEIGHT	SURFACE LEVEL AT TOP	SURFACE LEVEL AT BASE
0		0	74.801	74.8
4		0.351	75.201	74.85
3.53	75.38	0.15	75.12	74.97
		0.41	75.35	74.94
15		0.346	75.332	74.99
15.64	75.39 / 75.53	0.43	75.40	74.97
		0.53	75.55	75.02
27.76	75.54 / 75.68	0.48	75.55	75.07
27.804		0.341	75.485	75.14
27.811		0.341	75.485	75.14
27.97	75.69 / 75.38	0.18	75.25	
27.857		0.189	75.332	75.14
27.958		0.188	75.329	75.14
30		0.208	75.309	75.1
36.08	75.38 / 75.22 / 75.23			
37.51		0.24	75.19	74.95
37.46				74.95
37.478				74.95

RETAINING WALL PROFILE - RW46
SCALE 1:200 (H)
SCALE 1:100 (V)



DATUM R.L. 71

CHAINAGE	TOP OF WALL LEVEL	RETAINED HEIGHT	SURFACE LEVEL AT TOP	SURFACE LEVEL AT BASE
0		0.154	75.485	75.33
	75.69	0.32	75.55	75.23
6.263		0.217	75.625	75.41
6.32	75.69			
6.684		0.221	75.634	75.41
7.325		0.008	75.648	75.64
8.30	75.68	0.18	75.73	75.55
9.636		0.043	75.7	75.66
9.73	75.83 / 75.82	0.18	75.81	75.63
	75.98			75.70
10.236		0.288	75.95	75.66
11.74	75.98 / 76.13	0.29	75.94	75.65
15		0.305	76.001	75.7
21.818		0.328	76.075	75.75
22.223		0.329	76.079	75.75
22.842		0.188	76.086	75.9
23.84	76.13	0.24	76.10	75.86
24.13		0.188	76.1	75.91
24.98	76.28 / 76.28	0.29	76.16	75.87
24.73	76.44	0.331	76.25	75.92
30		0.356	76.334	75.98
32.19	76.43	0.36	76.33	75.97
	76.58			
34.13		0.376	76.4	76.02
34.21	76.58	0.43	76.43	76.00
34.73	76.73	0.519	76.55	76.03
				76.05
36.275		0.526	76.574	76.05
36.875		0.385	76.583	76.2
		0.31	76.50	76.19
42.28	76.72 / 76.88	0.32	76.61	76.29
45		0.395	76.709	76.31
		0.3	76.69	76.39
47.357		0.397	76.745	76.35
47.957		0.213	76.754	76.54
		0.14	76.72	76.58
52.36	76.89 / 77.03	0.17	76.80	76.63
60		0.274	76.94	76.67
62.434		0.286	76.978	76.69
62.47	77.03	0.24	76.90	76.66

RETAINING WALL PROFILE - RW44
SCALE 1:200 (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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

JAS-ANZ WWW.JAS-ANZ.ORG/REGISTER

Project:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

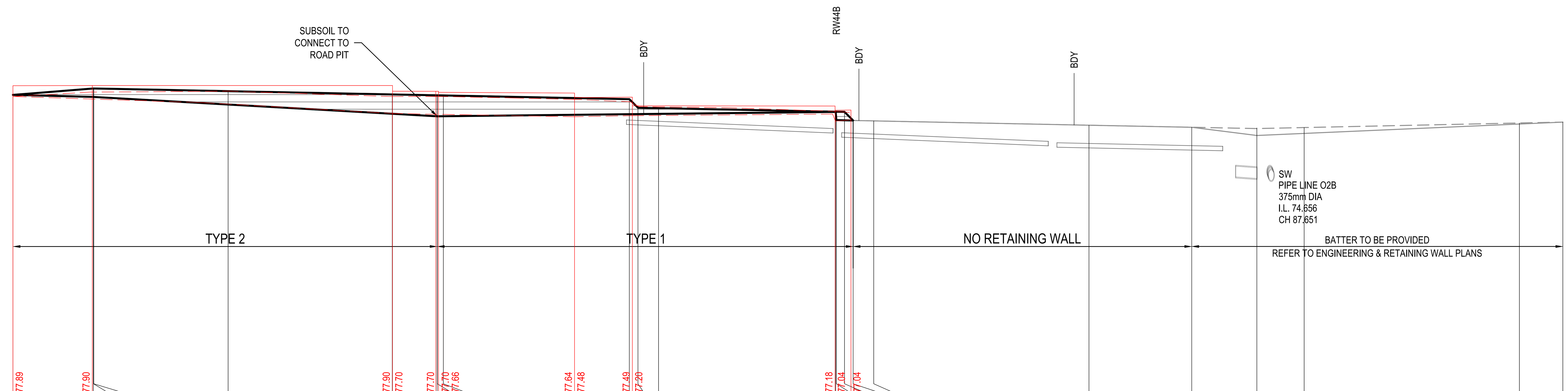
Title:
RETAINING WALL PROFILES
SHEET 02

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	712	B

LEGEND	
PROPOSED STORMWATER PIPE	0

NOTE:
- **ALL** RETAINING WALLS TO BE DESIGNED AND CERTIFIED BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER. REFER TO STRUCTURAL PLANS FOR DETAILS.
- **ALL** WALLS TO BE TYPE 1 UNO.
- 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'.

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP

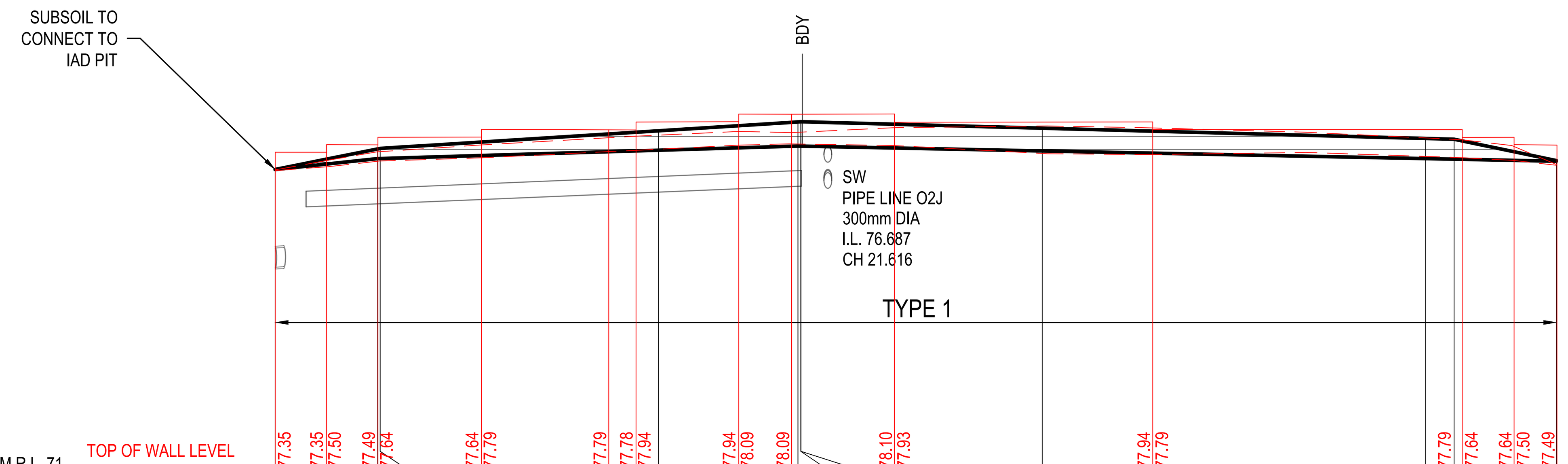


DATUM R.L. 67 — TOP OF WALL LEVEL (red)

TOP OF WALL LEVEL	RETAINED HEIGHT	SURFACE LEVEL AT TOP	SURFACE LEVEL AT BASE	CHAINAGE
	0	77.571	77.57	0
77.89	0.00	77.52	77.52	
77.90	0.24	77.67	77.43	5.53
	0.295	77.795	77.5	5.606
	0.296	77.795	77.5	5.615
	0.296	77.795	77.5	5.636
	0.39	77.70	77.31	
	0.466	77.702	77.24	15
	0.673	77.587	76.91	26.442
77.90	0.60	77.52	76.92	26.46
77.70				
	0.716	77.542	76.83	29.566
77.70	0.62	77.52	76.90	29.47
	0.746	77.572	76.83	29.576
77.70				29.66
77.66				
	0.725	77.553	76.83	30
77.64	0.61	77.42	76.81	39.14
77.48				
	0.524	77.423	76.9	42.963
77.49	0.48	77.33	76.85	43.18
	0.221	77.123	76.9	43.563
77.20	0.31	77.16		
	0.198	77.109	76.91	45
	0.007	76.985	76.98	57.343
77.18	0.1 0.34	77.00	76.90 76.66	57.30
	0.294	76.985	76.69	57.393
77.04				58.41
	0.294	76.979	76.68	57.963
77.04	0.26	76.96	76.70	
	0	76.679	76.68	58.563
	-0	76.665	76.66	60
	-0	76.515	76.51	75
	0	76.443	76.44	82.164
	0.263	76.419	76.16	86.701
	0.204	76.432	76.23	90
	0.034	76.591	76.56	105
	0	76.623	76.62	108.028

RETAINING WALL PROFILE - RW14

SCALE 1:200 (H)
SCALE 1:100 (V)



DATUM R.L. 71 — TOP OF WALL LEVEL (red)

TOP OF WALL LEVEL	RETAINED HEIGHT	SURFACE LEVEL AT TOP	SURFACE LEVEL AT BASE	CHAINAGE
	0.002	77.012	77.01	0
77.35	0.01	77.00	76.99	
77.35	0.13	77.19	77.06	2.01
77.50				
	0.19	77.412	77.22	4.006
77.49	0.17	77.35	77.18	4.02
	0.199	77.422	77.22	4.105
77.64				
77.64	0.25	77.49	77.24	8.07
77.79				
77.79				13.05
77.78	0.27	77.66	77.39	14.11
	0.38	77.767	77.39	15
77.94				
77.94	0.27	77.76	77.49	18.13
78.09				
	0.471	77.94	77.47	20.446
78.09	0.22	77.73	77.51	20.20
	0.476	77.943	77.47	20.557
	0.477	77.945	77.47	20.567
78.10	0.35	77.83	77.48	24.22
77.93				
	0.445	77.818	77.37	30
77.94	0.53	77.83	77.30	34.32
77.79				
	0.394	77.617	77.22	45
	0.39	77.602	77.21	46.114
77.79	0.35	77.59	77.24	46.43
77.64				
77.64	0.29	77.48	77.19	48.46
77.50				
	0.012	77.184	77.17	50.115
77.49	0.01	77.11	77.10	50.13

RETAINING WALL PROFILE - RW102

SCALE 1:200 (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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

Scale:
0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100 (A1) SCALE 1:200 (A3)
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:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

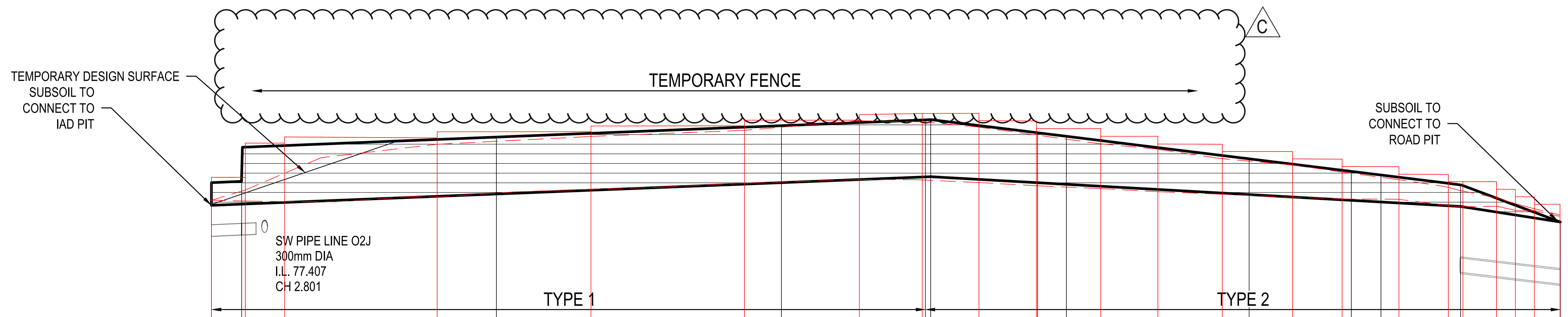
Title:
RETAINING WALL PROFILES
SHEET 03

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	713	B

NOTE:

- **ALL** RETAINING WALLS TO BE DESIGNED AND CERTIFIED BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER. REFER TO STRUCTURAL PLANS FOR DETAILS.
- **ALL** WALLS TO BE TYPE 1 UNO.
- 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'.

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP

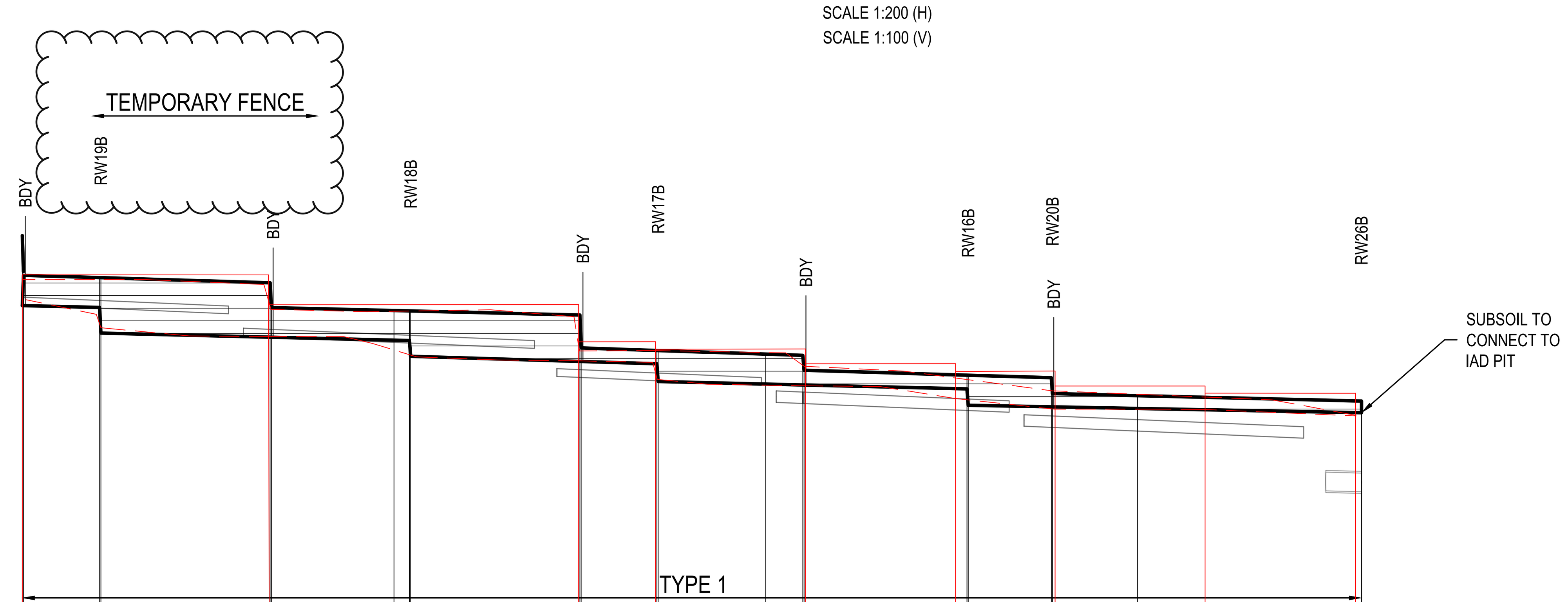


DATUM R.L. 72

CHAINAGE		TOP OF WALL LEVEL	RETAINED HEIGHT	SURFACE LEVEL AT TOP	SURFACE LEVEL AT BASE
0	Design		0.596	78.703	78.11
	WAE	78.84	0.00	78.24	78.24
1.59	Design		0.755	78.894	78.14
	WAE	78.84	0.28	78.50	78.22
1.78	WAE	79.75			
3.85	WAE	79.74 / 79.91	1.15	79.36	78.21
11.88	WAE	79.88 / 80.04	1.38	79.71	78.33
15	Design		1.497	79.903	78.41
19.98	WAE	80.05 / 80.19	1.39	79.92	78.53
28.06	WAE	80.20 / 80.35	1.39	80.08	78.69
30	Design		1.497	80.203	78.71
34.10	WAE	80.35 / 80.49	1.54	80.33	78.79
37.582	Design		1.498	80.354	78.86
37.41	WAE	80.52	1.53	80.31	78.78
37.858	Design		1.5	80.362	78.86
40.40	WAE	80.53 / 80.34	1.46	80.17	78.71
43.482	Design		1.312	80.016	78.7
43.42	WAE	80.33 / 80.13	1.51	80.13	78.62
45	Design		1.262	79.923	78.66
46.81	WAE	80.13 / 79.92	1.18	79.73	78.55
49.81	WAE	79.92 / 79.72	1.12	79.59	78.47
53.20	WAE	79.71 / 79.52	0.94	79.34	78.40
54.616	Design		0.941	79.331	78.39
56.90	WAE	79.52 / 79.33	0.85	79.17	78.32
59.51	WAE	79.32 / 79.13	0.71	78.99	78.28
60	Design		0.761	79	78.24
61.556	Design		0.709	78.905	78.2
62.51	WAE	79.12 / 78.93	0.52	78.79	78.27
65.10	WAE	78.92 / 78.72	0.50	78.60	78.10
65.745	Design		0.567	78.644	78.08
65.69	WAE	78.72	0.43	78.50	78.07
67.64	WAE	78.73 / 78.53	0.23	78.31	78.08
68.63	WAE	78.53 / 78.34	0.19	78.16	77.97
69.63	WAE	78.34 / 78.33	0.06	78.03	77.97
70.998	Design		-0.002	77.668	77.67
	WAE	78.14	0.03	77.85	77.82
70.98	WAE	78.14			

RETAINING WALL PROFILE - RW100

SCALE 1:200 (H)
SCALE 1:100 (V)



DATUM R.L. 71

CHAINAGE		TOP OF WALL LEVEL	RETAINED HEIGHT	SURFACE LEVEL AT TOP	SURFACE LEVEL AT BASE
0	Design		1.409	80.831	79.42
	WAE	80.04	0.41	79.95	79.54
0.05	Design		0.61	80.031	79.42
3.119	Design		0.6	79.985	79.38
	WAE		0.70	79.95	79.25
3.169	Design		1.116	79.984	78.87
	WAE		0.97	79.95	78.98
	WAE		1.06	79.95	78.89
	WAE		1.10	79.91	78.81
10	Design		1.096	79.881	78.79
9.94	WAE	80.04	1.05	79.85	78.80
10.05	Design		0.597	79.382	78.78
	WAE	79.44	0.55	79.35	
	WAE		0.51	79.31	78.80
	WAE		0.64	79.30	78.66
15	Design		0.597	79.322	78.72
15.619	Design		0.597	79.314	78.72
	WAE		0.92	79.31	78.39
15.669	Design		0.915	79.314	78.4
	WAE		1.01	79.34	78.33
22.5	Design		0.936	79.231	78.3
22.45	WAE	79.44	0.89	79.20	78.31
22.55	Design		0.274	78.569	78.29
	WAE	78.69	0.20	78.51	
25.608	Design		0.268	78.517	78.25
25.55	WAE	78.69	0.24	78.52	78.28
25.658	Design		0.624	78.516	77.89
	WAE	78.54	0.59		77.93
	WAE		0.57	78.41	77.84
30	Design		0.603	78.444	77.84
31.494	Design		0.596	78.419	77.82
31.61	WAE	78.55	0.66	78.47	77.81
31.547	Design		0.297	78.118	77.82
	WAE	78.25	0.39	78.20	
	WAE		0.34	78.13	77.79
	WAE		0.39	78.10	77.71
38.121	Design		0.277	78.02	77.74
37.66	WAE	78.25	0.42	77.97	77.55
38.171	Design		0.606	78.019	77.41
	WAE	78.09			
41.523	Design		0.585	77.966	77.38
41.68	WAE	78.10	0.37	77.70	77.33
41.573	Design		0.268	77.648	77.38
	WAE	77.80			
45	Design		0.259	77.607	77.35
	WAE		0.28	77.62	77.34
47.73	WAE	77.80 / 77.66	0.25	77.58	77.33
	WAE		0.25	77.52	77.27
54.041	Design		0.235	77.498	77.26
53.80	WAE	77.66	0.10	77.21	77.20
54.041	Design		0.235	77.498	77.26

RETAINING WALL PROFILE - RW15

SCALE 1:200 (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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

Scale:
0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100 (A1) SCALE 1:200 (A3)
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:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title:
RETAINING WALL PROFILES
SHEET 04

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	714	C

LEGEND	
PROPOSED STORMWATER PIPE	0

NOTE:
- **ALL** RETAINING WALLS TO BE DESIGNED AND CERTIFIED BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER. REFER TO STRUCTURAL PLANS FOR DETAILS.
- **ALL** WALLS TO BE TYPE 1 UNO.
- 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'.

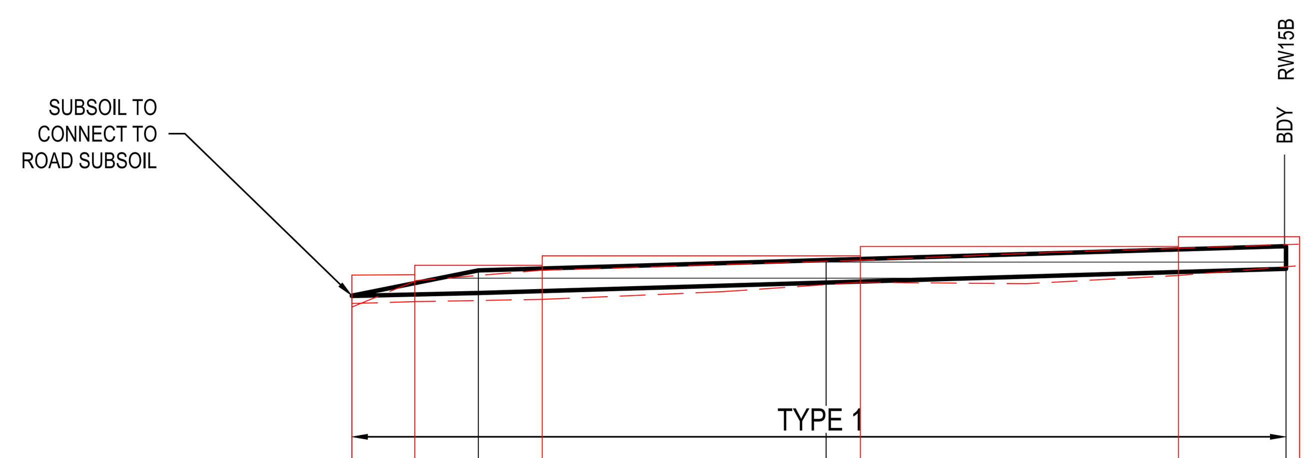
WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

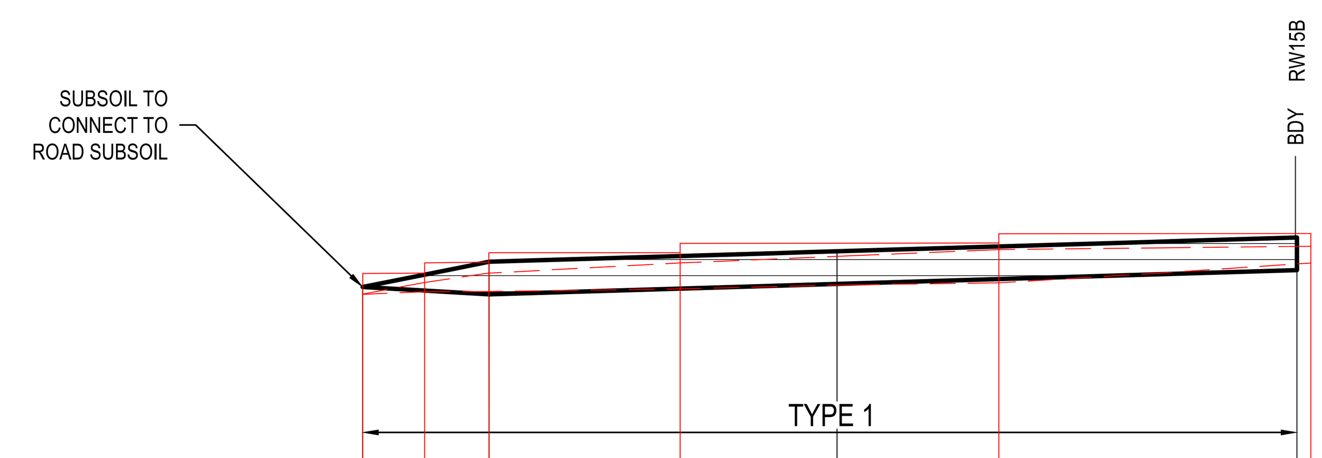
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



DATUM R.L. 73

TOP OF WALL LEVEL	77.79, 77.80, 77.94, 77.94, 78.10, 78.09, 78.24, 78.24, 78.40, 78.40
RETAINED HEIGHT	0.003, -0.06, 0.33, 0.356, 0.46, 0.43, 0.356, 0.35, 0.35, 0.50, 0.44, 0.356, 0.35
SURFACE LEVEL AT TOP	77.466, 77.28, 77.70, 77.866, 77.87, 77.96, 78.031, 78.03, 78.03, 78.15, 78.22, 78.249, 78.28
SURFACE LEVEL AT BASE	77.46, 77.34, 77.37, 77.51, 77.41, 77.53, 77.67, 77.68, 77.65, 77.78, 77.89, 77.93
CHAINAGE	0, 1.99, 3.999, 6.02, 15, 16.08, 26.14, 29.543, 29.97

RETAINING WALL PROFILE - RW17
SCALE 1:200 (H)
SCALE 1:100 (V)



DATUM R.L. 74

TOP OF WALL LEVEL	78.82, 78.82, 78.98, 78.99, 79.14, 79.14, 79.29, 79.30, 79.44, 79.45
RETAINED HEIGHT	0, 0.00, 0.14, 0.517, 0.29, 0.41, 0.517, 0.45, 0.52, 0.38, 0.517, 0.27
SURFACE LEVEL AT TOP	78.601, 78.49, 78.67, 79.001, 78.82, 78.98, 79.166, 79.09, 79.19, 79.22, 79.384, 79.25
SURFACE LEVEL AT BASE	78.6, 78.49, 78.53, 78.48, 78.53, 78.57, 78.65, 78.64, 78.67, 78.82, 78.87, 78.98
CHAINAGE	0, 1.96, 4, 3.99, 10.04, 15, 20.12, 29.544, 29.99

RETAINING WALL PROFILE - RW19
SCALE 1:200 (H)
SCALE 1:100 (V)

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

Scale:
0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100 (A1) SCALE 1:200 (A3)
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:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title:
RETAINING WALL PROFILES
SHEET 05

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	715	B

LEGEND	
PROPOSED STORMWATER PIPE	()

NOTE:

- **ALL** RETAINING WALLS TO BE DESIGNED AND CERTIFIED BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER. REFER TO STRUCTURAL PLANS FOR DETAILS.
- **ALL** WALLS TO BE TYPE 1 UNO.
- 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'.

WORKS AS EXECUTED

WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025

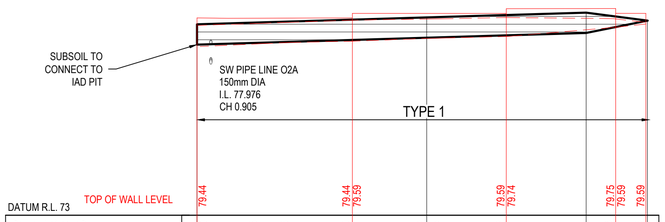
REGISTERED SURVEYOR ID: 8890
ORION GROUP

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

25/02/2025

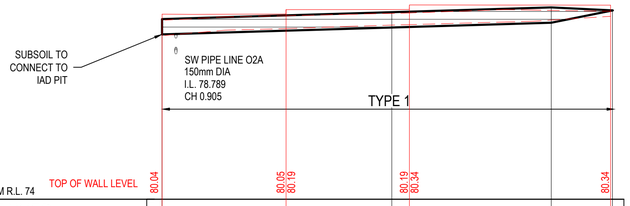
SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



DATUM R.L. 73														
TOP OF WALL LEVEL		79.44			79.44	79.59			79.59	79.74		79.75	79.59	79.59
RETAINED HEIGHT	0.663	0.69	0.66	0.66	0.69	0.663	0.62	0.62	0.62	0.663	0.28	0.003	0.06	
SURFACE LEVEL AT TOP	79.231	79.20	79.26	79.30	79.37	79.456	79.40	79.41	79.45	79.612	79.42	79.353	79.30	
SURFACE LEVEL AT BASE	78.57	78.51	78.60	78.64	78.68	78.79	78.78	78.79	78.83	78.95	79.14	79.35	79.24	
CHAINAGE	0	0.00			10.14	15			20.19	25.407	27.34	29.407	29.31	

RETAINING WALL PROFILE - RW22
SCALE 1:200 (H)
SCALE 1:100 (V)



DATUM R.L. 74														
TOP OF WALL LEVEL		80.04			80.05	80.19			80.19	80.34				80.34
RETAINED HEIGHT	0.5	0.50	0.43	0.42	0.40	0.5	0.38		0.41	0.36	0.5	0.003	0.17	
SURFACE LEVEL AT TOP	79.881	79.85	79.95	79.99	80.04	80.106	80.08		80.19	80.17	80.262	80.165	80.14	
SURFACE LEVEL AT BASE	79.38	79.35	79.52	79.97	79.64	79.61	79.70		79.78	79.81	79.76	80.16	79.97	
CHAINAGE	0			8.09		15	16.15				25.41	29.407	29.28	

RETAINING WALL PROFILE - RW23
SCALE 1:200 (H)
SCALE 1:100 (V)

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

Scale:
0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100 (A1) SCALE 1:200 (A3)
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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title: RETAINING WALL PROFILES SHEET 06

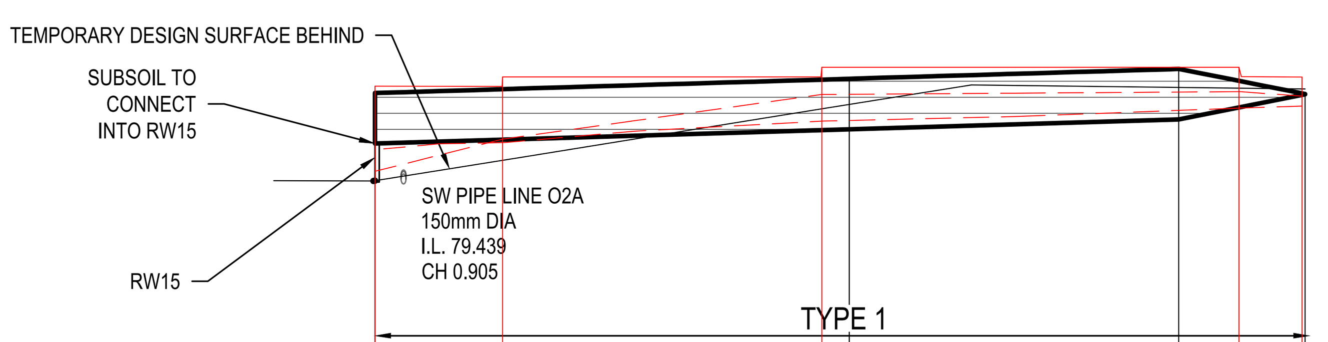
Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	716	B

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
[signature]
REGISTERED SURVEYOR ID: 8890
ORION GROUP

LEGEND	
PROPOSED STORMWATER PIPE	0

NOTE:

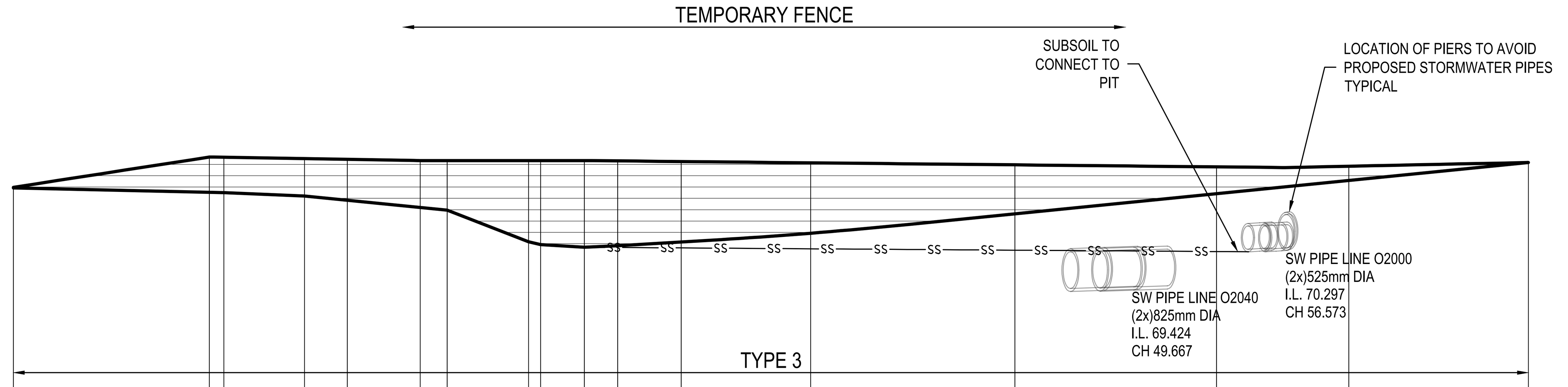
- **ALL** RETAINING WALLS TO BE DESIGNED AND CERTIFIED BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER. REFER TO STRUCTURAL PLANS FOR DETAILS.
- **ALL** WALLS TO BE TYPE 1 UNO.
- WALL DESIGN TO ENSURE NO PIERS ARE POSITIONED OVER PROPOSED STORMWATER PIPES AT CROSSINGS.
- WALLS HAVE BEEN MODELED TO SUIT BENCH LOCATIONS, WALL STEPS TO STRUCTURAL DESIGN.
- WALL TYPES TO BE IN ACCORDANCE WITH THE 'MIRVAC LOT BENCHING SPECIFICATION'.



DATUM R.L. 75

TOP OF WALL LEVEL		80.94		80.94	81.09		81.09		81.24			81.24	81.09		81.09
RETAINED HEIGHT	0.8	-0.36	-0.40	0.05		0.16	0.41	0.8		0.37	0.8	0.26		0.003	0.14
SURFACE LEVEL AT TOP	80.831	79.59	79.63	80.10		80.39	80.81	81.056		80.83	81.212	80.85		80.815	80.78
SURFACE LEVEL AT BASE	80.03	79.95	80.03	80.05		80.23	80.39	80.26		80.46	80.41	80.59		80.81	80.62
CHAINAGE	0				4.03			15	14.13		25.407	27.31		29.407	29.31

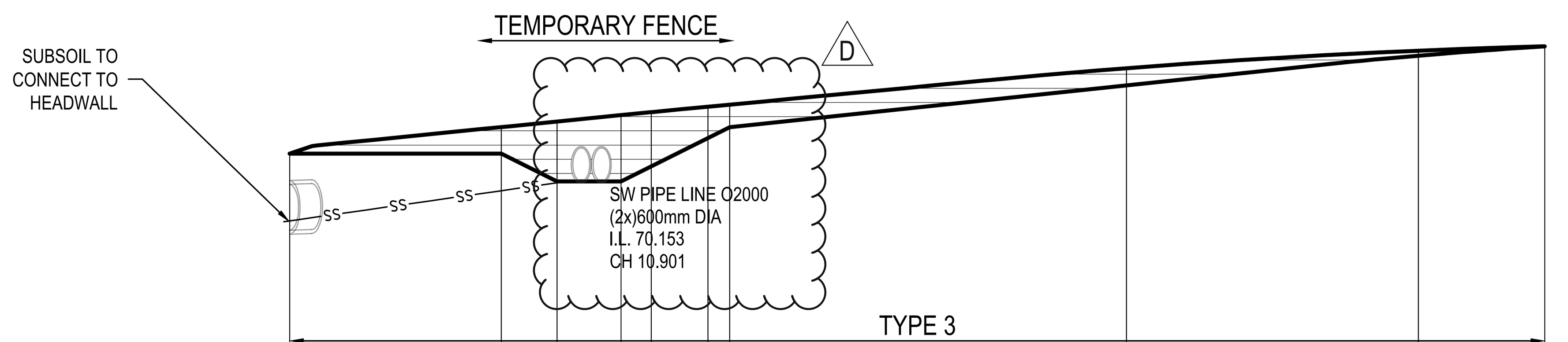
RETAINING WALL PROFILE - RW24
SCALE 1:200 (H)
SCALE 1:100 (V)



DATUM R.L. 65

RETAINED HEIGHT	0.012	0.793	0.796	0.84	0.919	1.053	1.113	1.824	1.89	1.947	1.909	1.809	1.583	1.1	0.602	0.319	0
SURFACE LEVEL AT TOP	71.668	72.35	72.345	72.314	72.298	72.27	72.27	72.27	72.27	72.268	72.263	72.248	72.219	72.173	72.128	72.143	72.227
SURFACE LEVEL AT BASE	71.66	71.56	71.55	71.47	71.38	71.22	71.16	70.45	70.38	70.32	70.35	70.44	70.64	71.07	71.53	71.82	72.23
CHAINAGE	0	8.807	9.454	13.077	15	18.278	19.485	23.144	23.687	25.648	27.147	30	35.817	45	54.06	60	68.065

RETAINING WALL PROFILE - RW85
SCALE 1:200 (H)
SCALE 1:100 (V)



DATUM R.L. 65

RETAINED HEIGHT	0	0.476	1.076	1.19	0.972	0.561	0.404	0.306	0.089	0
SURFACE LEVEL AT TOP	70.65	71.126	71.226	71.34	71.395	71.491	71.528	72.182	72.496	72.575
SURFACE LEVEL AT BASE	70.65	70.65	70.15	70.15	70.42	70.93	71.12	71.88	72.41	72.58
CHAINAGE	0	7.587	9.587	11.877	12.967	15	15.774	30	40.467	44.996

RETAINING WALL PROFILE - RW86
SCALE 1:200 (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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
D	LMc	LMc	MP	MP	20/02/2025	AMENDED TO SUIT COUNCIL COMMENTS
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

Scale:
0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100 (A1) SCALE 1:200 (A3)
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:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

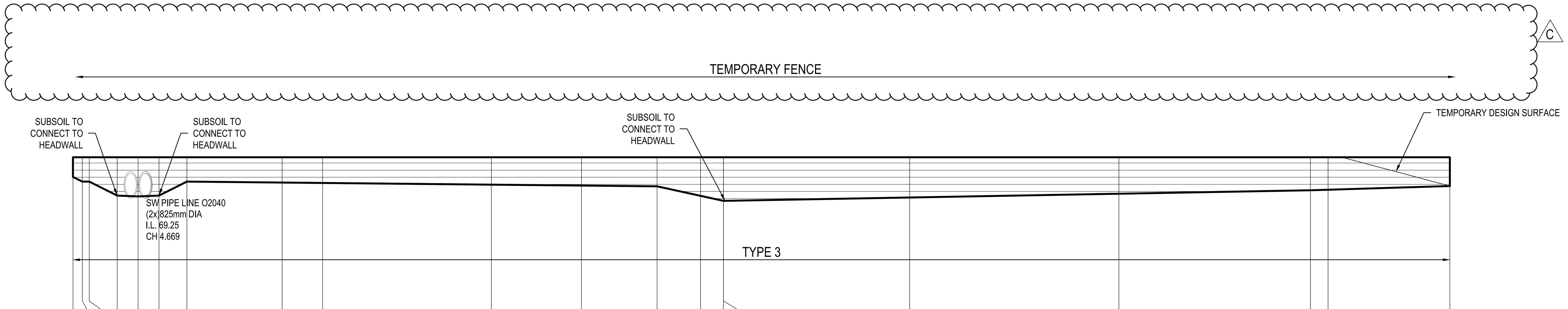
Title:
RETAINING WALL PROFILES
SHEET 07

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	717	D

LEGEND	
PROPOSED STORMWATER PIPE	0

NOTE:
- **ALL** RETAINING WALLS TO BE DESIGNED AND CERTIFIED BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER. REFER TO STRUCTURAL PLANS FOR DETAILS.
- **ALL** WALLS TO BE TYPE 1 UNO.
- 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'.

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP

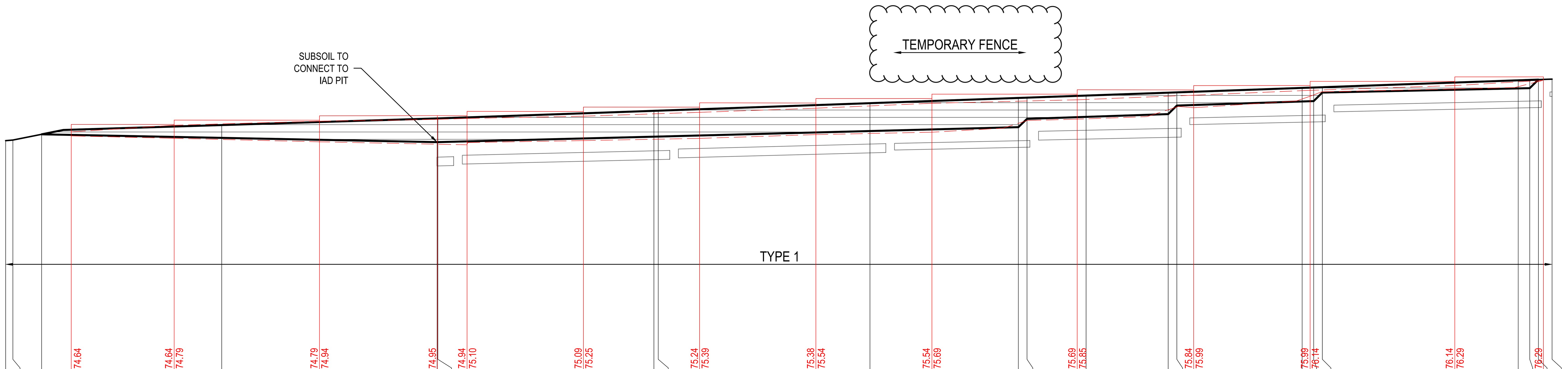


DATUM R.L. 65

RETAINED HEIGHT	SURFACE LEVEL AT TOP	SURFACE LEVEL AT BASE	CHAINAGE
0.705	70.65	69.94	0
0.873	70.65	69.78	0.669
0.873	70.65	69.78	1.169
1.373	70.65	69.28	3.169
1.403	70.65	69.25	4.669
1.373	70.65	69.28	6.169
0.873	70.65	69.78	8.169
0.907	70.65	69.74	15
0.921	70.65	69.73	17.898
0.982	70.65	69.67	30
1.014	70.65	69.64	36.464
1.041	70.65	69.61	41.884
1.381	70.65	69.27	45
1.56	70.65	69.09	46.642
1.561	70.65	69.09	46.648
1.441	70.65	69.21	60
1.306	70.65	69.34	75
1.182	70.65	69.47	88.732
1.163	70.65	69.49	90
1.031	70.65	69.62	98.732

RETAINING WALL PROFILE - RW110
SCALE 1:200 (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
25/02/2025
SUBDIVISION WORKS CERTIFICATE
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



DATUM R.L. 66

TOP OF WALL LEVEL	RETAINED HEIGHT	SURFACE LEVEL AT TOP	SURFACE LEVEL AT BASE	CHAINAGE
	0	74.082	74.08	0
	0	74.102	74.1	0.5
	-0	74.302	74.3	2.5
74.64	0.14	74.39	74.25	4.55
74.64 74.79	0.46	74.62	74.16	11.70
	0.443	74.621	74.18	15
74.79 74.94	0.72	74.76	74.04	21.78
			74.03	29.95
74.95	0.78	74.82	74.04	29.97
	0.82	74.851	74.03	30
74.94 75.10	0.91 0.83	74.85	73.94 74.02	32.03
75.09 75.25	0.85	74.93	74.08	40.11
	0.896	75.115	74.22	45
	0.898	75.121	74.22	45.3
75.24 75.39	0.90	75.06	74.16	48.17
75.38 75.54	0.91	75.20	74.29	56.25
	0.965	75.38	74.41	60
75.54 75.69	1.00	75.38	74.38	64.30
			74.52	
	1.013	75.562	74.55	70.3
	0.735	75.572	74.84 74.78	70.9
75.69 75.85	0.67	75.50	74.83	74.39
	0.739	75.645	74.91	75
			74.91	
	0.744	75.745	75	80.7
	0.457	75.756	75.3 75.27	81.3
75.84 75.99	0.44	75.66	75.22	82.47
	0.47	75.909	75.44 75.46	90
75.99	0.20	75.83	75.63	90.56
	0.471	75.923	75.45	90.8
76.14	0.06		75.77	
	0.185	75.934	75.75	91.4
76.14 76.29	0.11	75.99	75.88	100.60
	0.281	76.174	75.89 75.92	105
	0.286	76.188	75.9	105.8
	-0.001	76.198	76.2	106.4
76.29	0.00	76.17	76.17	106.75
	0	76.215	76.22	107.35

RETAINING WALL PROFILE - RW11
SCALE 1:200 (H)
SCALE 1:100 (V)

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

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

WWW.JAS-ANZ.ORG/REGISTER

Project:
591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

Title:
RETAINING WALL PROFILES SHEET 08

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	718	C

LEGEND

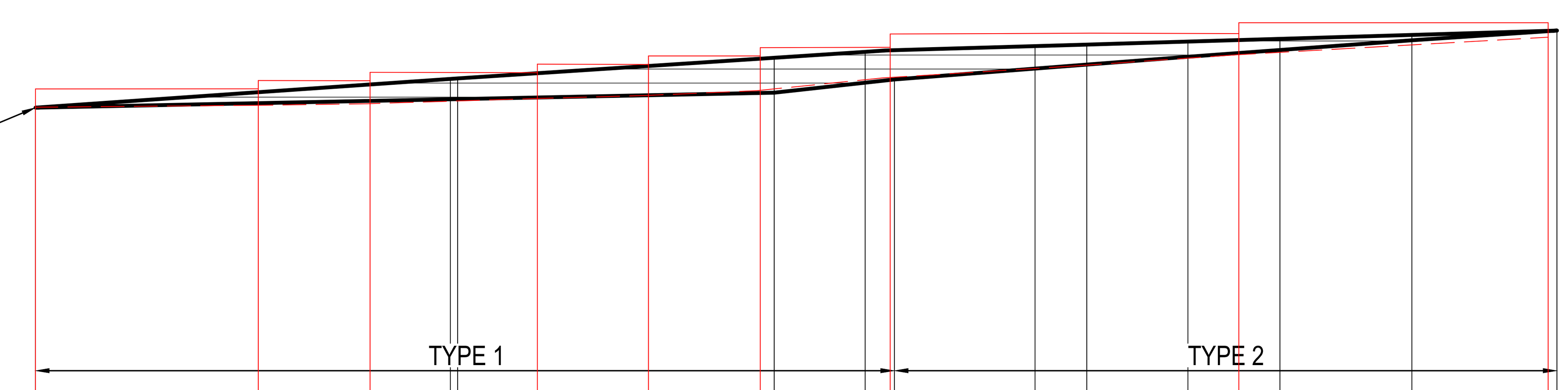
LEGEND	
PROPOSED STORMWATER PIPE	0

NOTE:

- **ALL** RETAINING WALLS TO BE DESIGNED AND CERTIFIED BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER. REFER TO STRUCTURAL PLANS FOR DETAILS.
- **ALL** WALLS TO BE TYPE 1 UNO.
- 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'.

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP

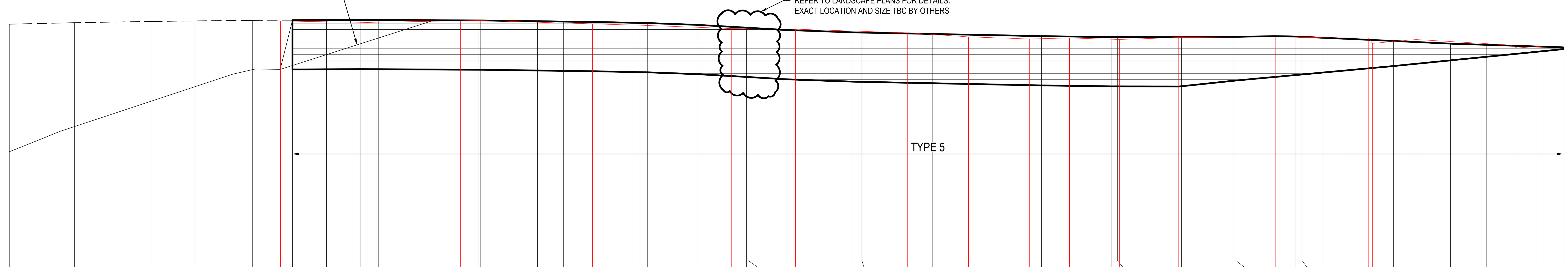
CAMDEN COUNCIL
Approved by the Council of Camden under the provisions of the Environment Planning and Assessment Act 1979
APPROVAL
25/02/2025
SUBDIVISION WORKS CERTIFICATE
DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



DATUM R.L. 68

CHAINAGE	RETAINED HEIGHT	SURFACE LEVEL AT TOP	SURFACE LEVEL AT BASE	TOP OF WALL LEVEL (red)
0	0	76.846	76.85	
			76.85 (red)	77.19
8.06 (red)			76.89 (red)	77.19 / 77.34
12.10 (red)			76.92 (red)	77.33 / 77.48
15	0.368	77.366	77	
15.265	0.374	77.375	77	
18.15 (red)			77.01 (red)	77.48 / 77.63
22.16 (red)			77.07 (red)	77.63 / 77.78
26.711	0.631	77.748	77.12	
26.21 (red)			77.15 (red)	77.78 / 77.93
30	0.557	77.855	77.3	
31.058			77.36	
30.91 (red)			77.38 (red)	77.94 / 78.18
36.144	0.406	77.959	77.55	
38.012	0.362	77.987	77.63	
41.67	0.274	78.041	77.77	
43.51 (red)			77.81 (red)	78.19 / 78.38
45	0.201	78.091	77.89	
49.77	0.097	78.162	78.06	
54.70 (red)			78.12 (red)	78.38
55.013	0	78.24	78.24	

RETAINING WALL PROFILE - RW12
SCALE 1:200 (H)
SCALE 1:100 (V)



DATUM R.L. 66

CHAINAGE	RETAINED HEIGHT	SURFACE LEVEL AT BTM	SURFACE LEVEL AT TOP	TOP OF WALL LEVEL (red)
0			76.09	
5.286			76.15	
11.5			76.2	
15			76.22	
19.738			76.25	
22.02 (red)				76.22
23	-2	74.255	76.25	
25.769	-2	74.26	76.26	
28.502	-2	74.265	76.27	
29.05 (red)				76.16
30	-2	74.262	76.26	
36.65 (red)				76.23
38.29	-2	74.243	76.24	
38.14 (red)				76.24
42.9	-2	74.212	76.21	
45	-2	74.198	76.2	
47.727	-2	74.179	76.18	
47.37 (red)				76.10
51.847	-2	74.138	76.14	
51.22 (red)				76.05
55.93	-2	74.063	76.06	
58.64 (red)				75.91
59.879	-2	73.951	75.95	
60	-2	73.947	75.95	
63.088	-2	73.855	75.86	
63.86 (red)				75.89
68.434	-2	73.76	75.76	
69.247	-2	73.752	75.75	
72.97 (red)				75.74
75	-2	73.695	75.69	
77.90 (red)				75.58
82.87 (red)				75.49
83.846	-2	73.607	75.61	
86.12 (red)				75.53
89.5	-2	73.568	75.57	
90.18 (red)				75.47
90	-2	73.568	75.57	
94.98 (red)				75.55
95.213	-1.989	73.573	75.56	
99.39	-1.785	73.793	75.58	
99.622	-1.775	73.805	75.58	
102.808	-1.653	73.951	75.6	
102.86 (red)				75.57
104.439	-1.566	74.026	75.59	
105	-1.527	74.051	75.58	
106.69 (red)				75.54
109.066	-1.249	74.238	75.49	
110.42 (red)				75.54
110.71 (red)				75.31
112.435	-1.017	74.393	75.41	
114.26 (red)				75.47
117.058	-0.679	74.623	75.3	
120	-0.484	74.769	75.25	
121.89 (red)				75.25
122.47 (red)				75.13
124.57 (red)				75.20
126.199			75.15	

RETAINING WALL PROFILE - RWL01
SCALE 1:200 (H)
SCALE 1:100 (V)

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

Scale:
0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100 (A1) SCALE 1:200 (A3)
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: 591, 593 COBBITTY ROAD & 1 FRESHWATER DRIVE, COBBITTY (PRECINCT 2A STAGE 1 & TRANCHE 5a STAGE 1) ROAD & DRAINAGE DESIGN

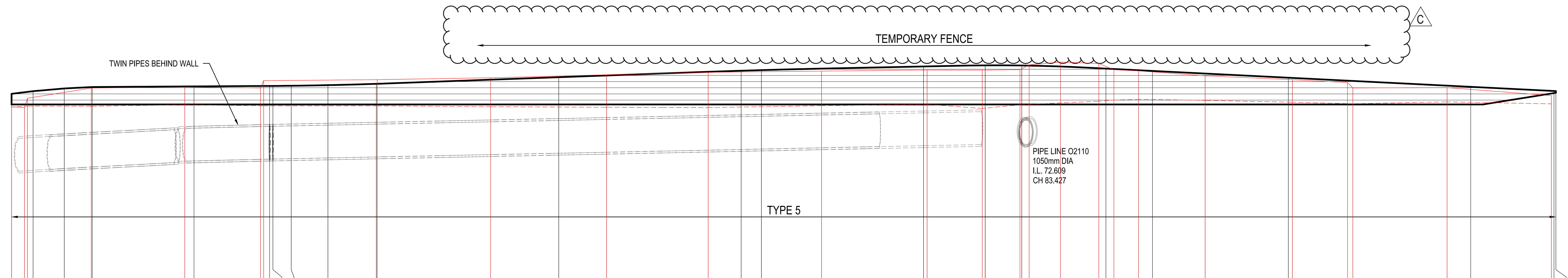
Title: RETAINING WALL PROFILES SHEET 09

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	719	C

LEGEND	
PROPOSED STORMWATER PIPE	0

NOTE:
- **ALL** RETAINING WALLS TO BE DESIGNED AND CERTIFIED BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER. REFER TO STRUCTURAL PLANS FOR DETAILS.
- **ALL** WALLS TO BE TYPE 1 UNO.
- 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'.

WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



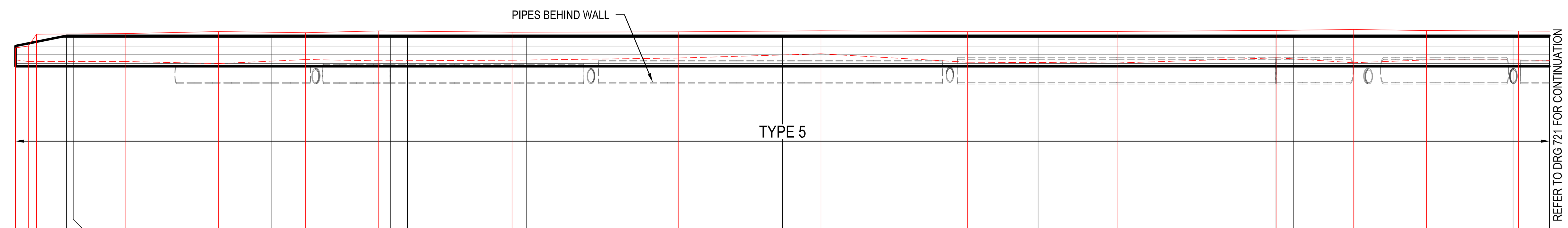
DATUM R.L. 67

CHAINAGE	RETAINED HEIGHT	SURFACE LEVEL AT BTM	SURFACE LEVEL AT TOP (TOP OF WALL LEVEL)
0	-0.438 / 0.01	74.3 / 74.19	74.74 / 74.20
1.06			74.18
1.767 / 1.31	-0.547 / 0.33	74.3 / 74.23	74.85 / 74.56
4.334	-0.659	74.3	74.96
6.634 / 6.55	-0.718 / 0.75	74.3 / 74.23	75.02 / 74.98
14.24	0.72	74.29	75.01
15	-0.743	74.3	75.04
20.48	0.74	74.24	74.98
21.221 / 20.73	-0.762 / 1.04	74.3	75.06 / 75.28
21.489	-0.763	74.3	75.06
23	-0.77	74.3	75.07
26.015	-0.795	74.3	75.1
30 / 30.08	-0.849 / 1.08	74.3 / 74.24	75.15 / 75.32
39.39	1.19	74.21	75.40
45	-1.121	74.3	75.42
48.93	1.33	74.19	75.52
57.29	1.45	74.17	75.62
60	-1.389	74.3	75.69
61.667	-1.414	74.3	75.71
66.61	1.42	74.25	75.67
75 / 75.29	-1.563 / 1.41	74.3 / 74.31	75.86 / 75.72
80.072 / 79.83	-1.609 / 1.57	74.3 / 74.14	75.91 / 75.71
83.079 / 82.93	-1.604 / 1.44	74.3 / 74.29	75.9 / 75.73
83.69	1.64		75.93
86.26	1.65	74.40	76.05
89.42	1.55	74.43	75.98
90	-1.475	74.3	75.78
90.66	1.25	74.48	75.73
92.68	1.17	74.51	75.68
93.829	-1.379	74.3	75.68
98.16	1.01	74.47	75.48
105 / 105.34	-1.1 / 0.93	74.3 / 74.39	75.4 / 75.32
109.87	0.87		75.20
110.31	0.65	74.33	74.98
118.06	0.59	74.41	75.00
120	-0.725	74.3	75.03
126.85 / 126.64	-0.086 / 0.33	74.768 / 74.33	74.85 / 74.66
127.003			74.85

SCALE 1:100 (V)

RETAINING WALL PROFILE - RWL04

SCALE 1:200 (H)
SCALE 1:100 (V)



DATUM R.L. 68

CHAINAGE	RETAINED HEIGHT	SURFACE LEVEL AT BTM	SURFACE LEVEL AT TOP (TOP OF WALL LEVEL)
0	-0.6 / 0.36	73 / 73.19	73.6 / 73.55
0.75	0.45	73.14	73.59
3 / 1.24	-0.9 / 0.80	73	73.9 / 73.94
3.387	-0.9	73	73.9
6.43	0.82	73.14	73.96
11.91	0.94	73.08	74.02
15	-0.9	73	73.9
17.02	0.79	73.20	73.99
21.31	0.88	73.16	74.04
21.992	-0.9	73	73.9
23	-0.9	73	73.9
29.14	0.82	73.18	74.00
30	-0.9	73	73.9
38.89	0.77	73.24	74.01
45	-0.9	73	73.9
47.26	0.68	73.37	74.05
55.87	0.90	73.12	74.02
60	-0.9	73	73.9
64.68	0.93	73.10	74.03
73.955 / 74.01	-0.9 / 0.81	73 / 73.25	73.9 / 74.06
75	-0.9	73	73.9
78.52	0.98	73.11	74.08
82.79	0.87	73.18	74.05
87.868 / 88.19	-0.9 / 0.85	73 / 73.19	73.9 / 74.04
90	-0.9	73	73.9

RETAINING WALL PROFILE - RWL05

SCALE 1:200 (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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

Scale:
0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100 (A1) SCALE 1:200 (A3)
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:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

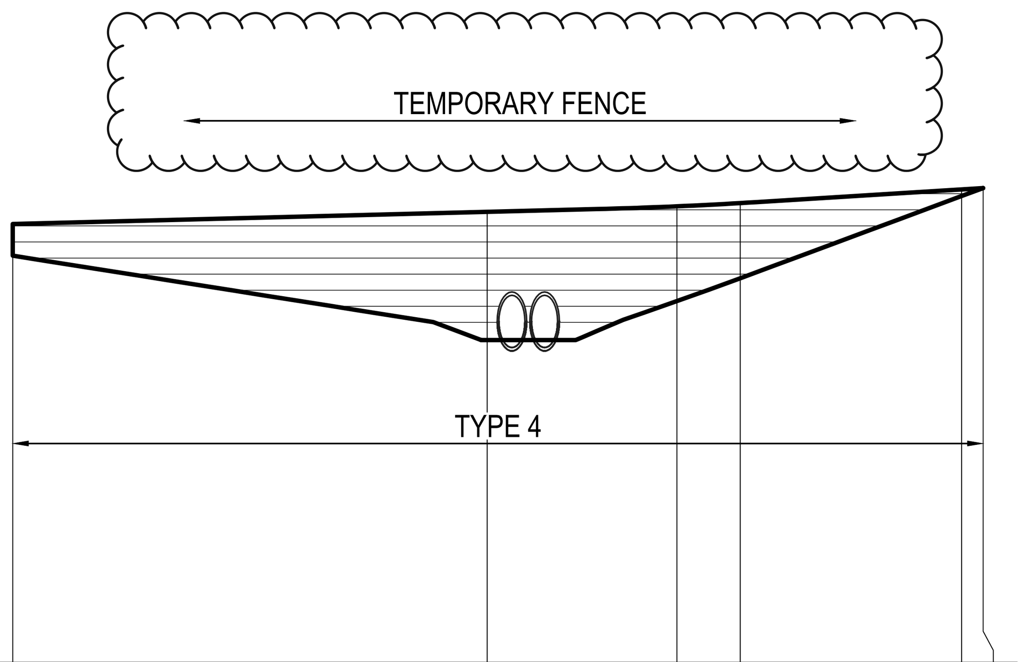
Title:
RETAINING WALL PROFILES
SHEET 10

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	720	C

LEGEND	
PROPOSED STORMWATER PIPE	0

NOTE:
- ALL RETAINING WALLS TO BE DESIGNED AND CERTIFIED BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER. REFER TO STRUCTURAL PLANS FOR DETAILS.
- ALL WALLS TO BE TYPE 1 UNO.
- 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'.

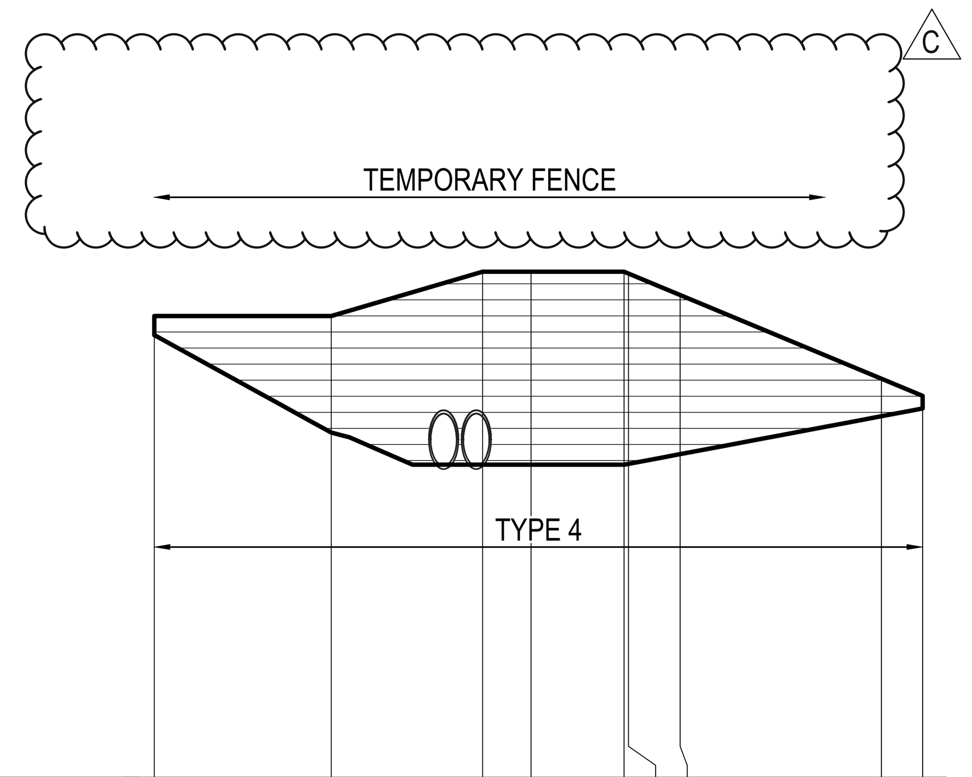
WORKS AS EXECUTED
WORKS AS EXECUTED INFORMATION SHOWN IN RED.
DATE: 12/11/2025
REGISTERED SURVEYOR ID: 8890
ORION GROUP



DATUM R.L. 66

RETAINED HEIGHT	-0.5	-2.023	-1.497	-1.188	-0.105		
SURFACE LEVEL AT BTM	72.432	71.1	71.714	72.075	73.374		
SURFACE LEVEL AT TOP	72.93	73.12	73.21	73.26	73.48	73.5	
CHAINAGE	0	15	21	23	30	30.678	

RETAINING WALL PROFILE - RWT01
SCALE 1:200 (H)
SCALE 1:100 (V)



DATUM R.L. 66

RETAINED HEIGHT	-0.3	-1.842	-3.05	-3.05	-3.05	-3.008	-2.515	-0.594			
SURFACE LEVEL AT BTM	73	71.458	70.95	70.95	70.95	70.963	71.117	71.716			
SURFACE LEVEL AT TOP	73.3	73.3	74	74	74	73.97	73.63	72.31	72.04		
CHAINAGE	0	5.598	10.386	11.92	14.859	15	16.632	23	24.304		

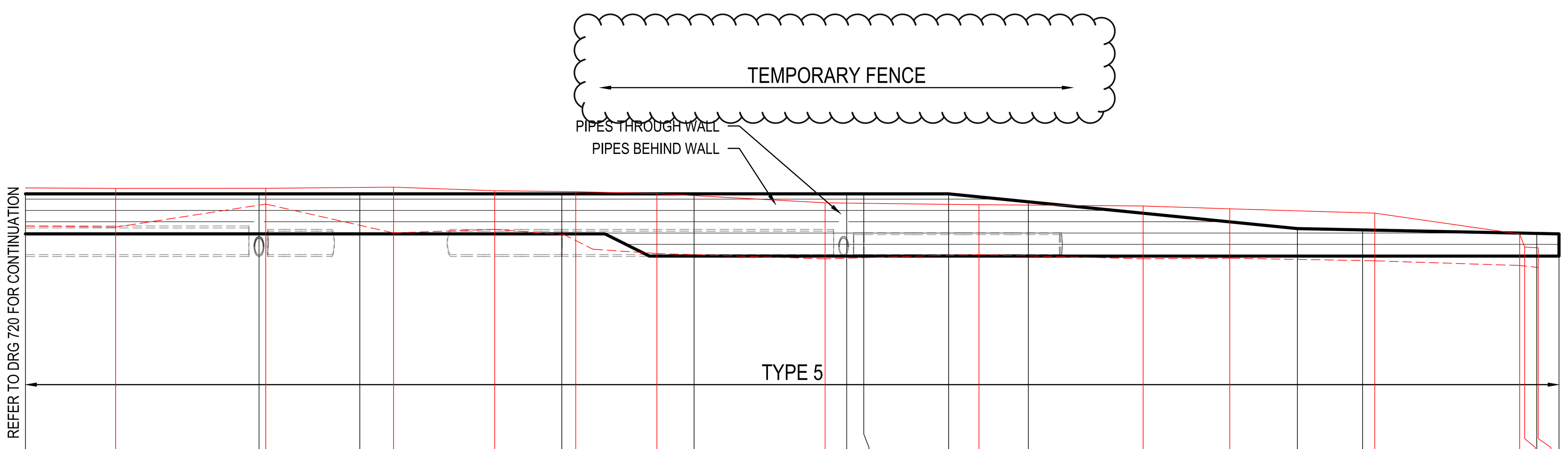
RETAINING WALL PROFILE - RWT02
SCALE 1:200 (H)
SCALE 1:100 (V)

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

25/02/2025

SUBDIVISION WORKS CERTIFICATE

DA/2023/292/1 & DA/2023/461/1 SWC.16.2023.292.1 & SWC.16.2023.461.2



DATUM R.L. 68

RETAINED HEIGHT	-0.9	0.86	-0.9	0.35	-0.9	1.02	0.86	-0.9	0.96	1.28	1.34	-1.4	1.25	-1.4
SURFACE LEVEL AT BTM	73	73.16	73	73.68	73	73.03	73.11	73	72.99	72.67	72.57	72.5	72.45	72.5
SURFACE (TOP OF WALL LEVEL) LEVEL AT TOP	73.9	74.02	73.9	74.03	73.9	74.05	73.97	73.9	73.95		73.91	73.9	73.70	73.9
CHAINAGE	90	94.04	100.479	100.78	105	106.51	111.05	114.066	114.69		118.33	120	125.88	126.85

RETAINED HEIGHT	-1.4	-1.4	1.11	-1.221	1.18	1.10	-0.617	-0.588	1.07	0.71	-0.51	0.41	0.44		
SURFACE LEVEL AT BTM	72.5	72.5	72.55	72.5	72.45	72.47	72.5	72.5	72.40	72.29	72.5		72.25		
SURFACE (TOP OF WALL LEVEL) LEVEL AT TOP	73.9	73.9	73.66	73.72	73.63	73.56	73.12	73.09	73.47	73.00	73.01	72.70	72.69	73	
CHAINAGE	127.615	131.42	132.78	135	140.15	144.03	147.072	150	150.54	157.04	157.814	157.27	157.88	158.814	

RETAINING WALL PROFILE - RWL05
SCALE 1:200 (H)
SCALE 1:100 (V)

ISSUED FOR **SUBDIVISION WORKS CERTIFICATE**

Rev	Drawn	Design	Check	Appd.	Date	Revision Description
C	LMc	LMc	TA	TA	22/01/2025	AMENDED TO SUIT COUNCIL COMMENTS
B	WP	LMc	MP	MP	30/10/2024	AMENDED TO SUIT COUNCIL COMMENTS
A	RL	LMc	MP	MP	29/07/2024	ISSUED FOR SUBDIVISION WORKS CERTIFICATE

Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
THESE DRAWINGS, PLANS, AND SPECIFICATIONS AND THE COPYRIGHT ARE THE PROPERTY OF ORION CONSULTING ENGINEERS PTY LTD AND MUST NOT BE REPRODUCED OR COPIED WHOLLY OR IN PART WITHOUT THE PERMISSION OF ORION CONSULTING ENGINEERS PTY LTD

Scale:
0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100 (A1) SCALE 1:200 (A3)
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:
591, 593 COBBITTY ROAD &
1 FRESHWATER DRIVE, COBBITTY
(PRECINCT 2A STAGE 1 &
TRANCHE 5a STAGE 1)
ROAD & DRAINAGE DESIGN

Title:
RETAINING WALL PROFILES
SHEET 11

Project No.	Set No.	Milestone	Plan	Revision
23-0579	01	SWC	721	C