# WSU MILPERRA PROPOSED SUBDIVISON

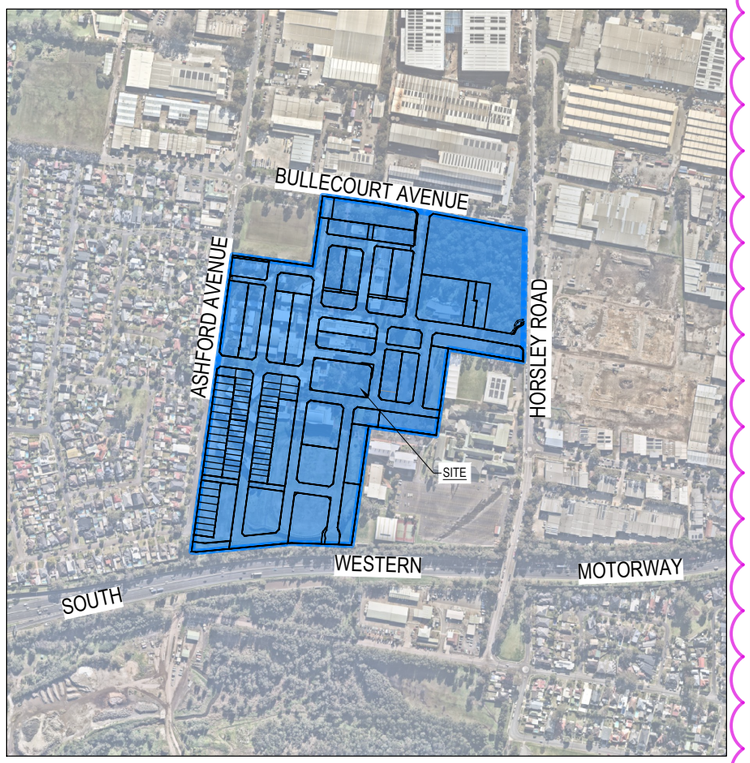
## CIVIL ENGINEERING PLANS ISSUED FOR DEVELOPMENT APPLICATION

## 2 & 2A BULLECOURT AVENUE, MILPERRA (LOT 1 IN DP101147 AND LOT 2 IN DP1291984)

## CANTERBURY-BANKSTOWN COUNCIL

## MIRVAC RESIDENTIAL (NSW) DEVELOPMENTS PTY LTD

G




SITE PLAN

NOT TO SCALE

DRAWING INDEX

| DRAWING No. | TITLE | REVISION |
|---|---|---|
| 2301879-321-001 | COVER SHEET | G |
| 2301879-321-002 | GENERAL ARRANGEMENT & STAGING PLAN | B |
| 2301879-321-003 | TYPICAL ROAD CROSS SECTIONS SHEET 1 OF 4 | C |
| 2301879-321-004 | TYPICAL ROAD CROSS SECTIONS SHEET 2 OF 4 | C |
| 2301879-321-005 | TYPICAL ROAD CROSS SECTIONS SHEET 3 OF 4 | C |
| 2301879-321-006 | TYPICAL ROAD CROSS SECTIONS SHEET 4 OF 4 | C |
| 2301879-321-007 | TYPICAL DETAILS SHEET 1 OF 2 | C |
| 2301879-321-008 | TYPICAL DETAILS SHEET 2 OF 2 | C |
| 2301879-321-009 | RETAINING WALL DETAILS | B |
| 2301879-321-030 | OVERALL DEMOLITION PLAN | C |
| 2301879-321-031 | DEMOLITION PLAN SHEET 1 OF 6 | C |
| 2301879-321-032 | DEMOLITION PLAN SHEET 2 OF 6 | C |
| 2301879-321-033 | DEMOLITION PLAN SHEET 3 OF 6 | C |
| 2301879-321-034 | DEMOLITION PLAN SHEET 4 OF 6 | C |
| 2301879-321-035 | DEMOLITION PLAN SHEET 5 OF 6 | C |
| 2301879-321-036 | DEMOLITION PLAN SHEET 6 OF 6 | C |
| 2301879-321-045 | OVERALL LOT LAYOUT PLAN | B |
| 2301879-321-050 | OVERALL LAYOUT PLAN | D |
| 2301879-321-051 | LAYOUT PLAN STAGE 1 | D |
| 2301879-321-052 | LAYOUT PLAN STAGE 2 SHEET 1 OF 2 | E |
| 2301879-321-053 | LAYOUT PLAN STAGE 2 SHEET 2 OF 2 | C |
| 2301879-321-054 | LAYOUT PLAN STAGE 3A SHEET 1 OF 2 | F |
| 2301879-321-055 | LAYOUT PLAN STAGE 3A SHEET 2 OF 2 | F |
| 2301879-321-056 | LAYOUT PLAN STAGE 4 SHEET 1 OF 2 | C |
| 2301879-321-057 | LAYOUT PLAN STAGE 4 SHEET 2 OF 2 | C |
| 2301879-321-058 | LAYOUT PLAN STAGE 5 | D |
| 2301879-321-059 | LAYOUT PLAN STAGE 6 SHEET 1 OF 2 | D |
| 2301879-321-060 | LAYOUT PLAN STAGE 6 SHEET 2 OF 2 | B |
| 2301879-321-061 | LAYOUT PLAN STAGE 7 | E |
| 2301879-321-070 | BULK EARTHWORKS OVERALL PLAN | C |
| 2301879-321-071 | BULK EARTHWORKS SECTION A | B |
| 2301879-321-072 | BULK EARTHWORKS SECTION B | B |
| 2301879-321-073 | BULK EARTHWORKS SECTIONS C, D & E | B |
| 2301879-321-074 | BULK EARTHWORKS SECTION F | B |
| 2301879-321-101 | ROAD LONGITUDINAL SECTIONS (SHEET 1 OF 6) | B |
| 2301879-321-102 | ROAD LONGITUDINAL SECTIONS (SHEET 2 OF 6) | B |
| 2301879-321-103 | ROAD LONGITUDINAL SECTIONS (SHEET 3 OF 6) | B |
| 2301879-321-104 | ROAD LONGITUDINAL SECTIONS (SHEET 4 OF 6) | B |
| 2301879-321-105 | ROAD LONGITUDINAL SECTIONS (SHEET 5 OF 6) | B |
| 2301879-321-106 | ROAD LONGITUDINAL SECTIONS (SHEET 6 OF 6) | B |
| 2301879-321-200 | ROAD CROSS SECTIONS STAGE 1 - ASHFORD AVENUE (SHEET 1 OF 6) | B |
| 2301879-321-201 | ROAD CROSS SECTIONS STAGE 1 - ASHFORD AVENUE (SHEET 2 OF 6) | B |
| 2301879-321-202 | ROAD CROSS SECTIONS STAGE 1 - ASHFORD AVENUE (SHEET 3 OF 6) | B |
| 2301879-321-203 | ROAD CROSS SECTIONS STAGE 1 - ASHFORD AVENUE (SHEET 4 OF 6) | B |
| 2301879-321-204 | ROAD CROSS SECTIONS STAGE 1 - ASHFORD AVENUE (SHEET 5 OF 6) | B |
| 2301879-321-205 | ROAD CROSS SECTIONS STAGE 1 - ASHFORD AVENUE (SHEET 6 OF 6) | B |
| 2301879-321-206 | ROAD CROSS SECTIONS STAGE 2 - ROAD 1 | B |
| 2301879-321-207 | ROAD CROSS SECTIONS STAGE 2 - ROAD 2A (SHEET 1 OF 3) | B |
| 2301879-321-208 | ROAD CROSS SECTIONS STAGE 2 - ROAD 2A (SHEET 2 OF 3) | B |
| 2301879-321-209 | ROAD CROSS SECTIONS STAGE 2 - ROAD 2A (SHEET 3 OF 3) | B |
| 2301879-321-210 | ROAD CROSS SECTIONS STAGE 2 - ROAD 3 | B |
| 2301879-321-211 | ROAD CROSS SECTIONS STAGE 2 - ROAD 5 | B |
| 2301879-321-212 | ROAD CROSS SECTIONS STAGE 2 - ROAD 6 | B |
| 2301879-321-213 | ROAD CROSS SECTIONS STAGE 2 - ROAD 7 | B |

DRAWING INDEX

| DRAWING No. | TITLE | REVISION |
|---|---|---|
| 2301879-321-214 | ROAD CROSS SECTIONS STAGE 2 - ROAD 10 | B |
| 2301879-321-215 | ROAD CROSS SECTIONS STAGE 3 - ROAD 2B (SHEET 1 OF 2) | B |
| 2301879-321-216 | ROAD CROSS SECTIONS STAGE 3 - ROAD 2B (SHEET 2 OF 2) | B |
| 2301879-321-217 | ROAD CROSS SECTIONS STAGE 3 - ROAD 3 | B |
| 2301879-321-218 | ROAD CROSS SECTIONS STAGE 3- LANE 5 | B |
| 2301879-321-219 | ROAD CROSS SECTIONS STAGE 3 - ROAD 9 (SHEET 1 OF 2) | B |
| 2301879-321-220 | ROAD CROSS SECTIONS STAGE 3 - ROAD 9 (SHEET 2 OF 2) | B |
| 2301879-321-221 | ROAD CROSS SECTIONS STAGE 4 - ROAD 2A (SHEET 1 OF 4) | B |
| 2301879-321-222 | ROAD CROSS SECTIONS STAGE 4 - ROAD 2A (SHEET 2 OF 4) | B |
| 2301879-321-223 | ROAD CROSS SECTIONS STAGE 4 - ROAD 2A (SHEET 3 OF 4) | B |
| 2301879-321-224 | ROAD CROSS SECTIONS STAGE 4 - ROAD 2A (SHEET 4 OF 4) | B |
| 2301879-321-225 | ROAD CROSS SECTIONS STAGE 4 - ROAD 4 | B |
| 2301879-321-226 | ROAD CROSS SECTIONS STAGE 4 - ROAD 5 (SHEET 1 OF 3) | B |
| 2301879-321-227 | ROAD CROSS SECTIONS STAGE 4 - ROAD 5 (SHEET 2 OF 3) | 0 |
| 2301879-321-228 | ROAD CROSS SECTIONS STAGE 4 - ROAD 5 (SHEET 3 OF 3) | B |
| 2301879-321-229 | ROAD CROSS SECTIONS STAGE 5 - ROAD 2B | B |
| 2301879-321-230 | ROAD CROSS SECTIONS STAGE 5 - ROAD 3 (SHEET 1 OF 2) | C |
| 2301879-321-231 | ROAD CROSS SECTIONS STAGE 5 - ROAD 3 (SHEET 2 OF 2) | B |
| 2301879-321-232 | ROAD CROSS SECTIONS STAGE 5 - LANE 1 | B |
| 2301879-321-233 | ROAD CROSS SECTIONS STAGE 5 - LANE 2 | B |
| 2301879-321-234 | ROAD CROSS SECTIONS STAGE 6 - ROAD 2A | B |
| 2301879-321-235 | ROAD CROSS SECTIONS STAGE 6 - ROAD 2B | B |
| 2301879-321-236 | ROAD CROSS SECTIONS STAGE 6 - ROAD 8 (SHEET 1 OF 3) | B |
| 2301879-321-237 | ROAD CROSS SECTIONS STAGE 6 - ROAD 8 (SHEET 2 OF 3) | B |
| 2301879-321-238 | ROAD CROSS SECTIONS STAGE 6 - ROAD 8 (SHEET 3 OF 3) | B |
| 2301879-321-239 | ROAD CROSS SECTIONS STAGE 6 - ROAD 10 | B |
| 2301879-321-240 | ROAD CROSS SECTIONS STAGE 6 - LANE 5 | B |
| 2301879-321-241 | ROAD CROSS SECTIONS STAGE 7 - ROAD 10 | B |
| 2301879-321-242 | ROAD CROSS SECTIONS STAGE 7 - ROAD 10 | B |
| 2301879-321-243 | ROAD CROSS SECTIONS STAGE 7 - LANE 3 | B |
| 2301879-321-250 | OVERALL SIGNAGE & LINE MARKING PLAN | E |
| 2301879-321-251 | SIGNAGE & LINE MARKING PLANS SHEET 1 OF 5 | D |
| 2301879-321-252 | SIGNAGE & LINE MARKING PLANS SHEET 2 OF 5 | D |
| 2301879-321-253 | SIGNAGE & LINE MARKING PLANS SHEET 3 OF 5 | E |
| 2301879-321-254 | SIGNAGE & LINE MARKING PLANS SHEET 4 OF 5 | D |
| 2301879-321-255 | SIGNAGE & LINE MARKING PLANS SHEET 5 OF 5 | D |
| 2301879-321-300 | INTERSECTION DETAILS SHEET 1 OF 3 | E |
| 2301879-321-301 | INTERSECTION DETAILS SHEET 2 OF 3 | B |
| 2301879-321-302 | INTERSECTION DETAILS SHEET 3 OF 3 | D |
| 2301879-321-303 | INTERSECTION DETAILS CARPARK | D |
| 2301879-321-400 | OVERALL RETAINING WALLS | C |
| 2301879-321-401 | RETAINING WALL ALONG SOUTH WESTERN MORTORWAY LAYOUT & LONG-SECTION | C |
| 2301879-321-402 | RETAINING WALL CROSS SECTIONS | C |
| 2301879-321-500 | TEMPORARY OSD BASIN 1 SHEET 1 OF 2 | B |
| 2301879-321-501 | TEMPORARY OSD BASIN 1 SHEET 2 OF 2 | B |
| 2301879-321-502 | TEMPORARY OSD BASIN 2 | B |
| 2301879-321-505 | OSD BASIN 1 (SHEET 1 OF 4) | C |
| 2301879-321-506 | OSD BASIN 1 (SHEET 2 OF 4) | B |
| 2301879-321-507 | OSD BASIN 1 (SHEET 3 OF 4) | B |
| 2301879-321-508 | OSD BASIN 1 (SHEET 4 OF 4) | B |
| 2301879-321-509 | OSD BASIN 2 (SHEET 1 OF 2) | C |
| 2301879-321-510 | OSD BASIN 2 (SHEET 2 OF 2) | B |
| 2301879-321-511 | OSD BASIN 3 | B |
| 2301879-321-550 | OVERALL CATCHMENT PLAN | C |

DRAWING INDEX

| DRAWING No. | TITLE | REVISION |
|---|---|---|
| 2301879-321-590 | OVERALL TRUNK DRAINAGE LAYOUT PLAN | D |
| 2301879-321-591 | DRAINAGE LAYOUT PLAN SHEET 1 OF 6 | D |
| 2301879-321-592 | DRAINAGE LAYOUT PLAN SHEET 2 OF 6 | D |
| 2301879-321-593 | DRAINAGE LAYOUT PLAN SHEET 3 OF 6 | C |
| 2301879-321-594 | DRAINAGE LAYOUT PLAN SHEET 4 OF 6 | C |
| 2301879-321-595 | DRAINAGE LAYOUT PLAN SHEET 5 OF 6 | C |
| 2301879-321-596 | DRAINAGE LAYOUT PLAN SHEET 6 OF 6 | C |
| 2301879-321-601 | DRAINAGE LONGITUDINAL SECTIONS SHEET 1 OF 16 | D |
| 2301879-321-602 | DRAINAGE LONGITUDINAL SECTIONS SHEET 2 OF 16 | D |
| 2301879-321-603 | DRAINAGE LONGITUDINAL SECTIONS SHEET 3 OF 16 | D |
| 2301879-321-604 | DRAINAGE LONGITUDINAL SECTIONS SHEET 4 OF 16 | D |
| 2301879-321-605 | DRAINAGE LONGITUDINAL SECTIONS SHEET 5 OF 16 | D |
| 2301879-321-606 | DRAINAGE LONGITUDINAL SECTIONS SHEET 6 OF 16 | D |
| 2301879-321-607 | DRAINAGE LONGITUDINAL SECTIONS SHEET 7 OF 16 | D |
| 2301879-321-608 | DRAINAGE LONGITUDINAL SECTIONS SHEET 8 OF 16 | D |
| 2301879-321-609 | DRAINAGE LONGITUDINAL SECTIONS SHEET 9 OF 16 | D |
| 2301879-321-610 | DRAINAGE LONGITUDINAL SECTIONS SHEET 10 OF 16 | D |
| 2301879-321-611 | DRAINAGE LONGITUDINAL SECTIONS SHEET 11 OF 16 | D |
| 2301879-321-612 | DRAINAGE LONGITUDINAL SECTIONS SHEET 12 OF 16 | D |
| 2301879-321-613 | DRAINAGE LONGITUDINAL SECTIONS SHEET 13 OF 16 | D |
| 2301879-321-614 | DRAINAGE LONGITUDINAL SECTIONS SHEET 14 OF 16 | D |
| 2301879-321-615 | DRAINAGE LONGITUDINAL SECTIONS SHEET 15 OF 16 | D |
| 2301879-321-616 | DRAINAGE LONGITUDINAL SECTIONS SHEET 16 OF 16 | D |
| 2301879-321-700 | TURNING MOVEMENTS SHEET 1 OF1 8 | B |
| 2301879-321-701 | TURNING MOVEMENTS SHEET 2 OF 18 | D |
| 2301879-321-702 | TURNING MOVEMENTS SHEET 3 OF 18 | D |
| 2301879-321-703 | TURNING MOVEMENTS SHEET 4 OF 18 | D |
| 2301879-321-704 | TURNING MOVEMENTS SHEET 5 OF 18 | B |
| 2301879-321-705 | TURNING MOVEMENTS SHEET 6 OF 18 | C |
| 2301879-321-706 | TURNING MOVEMENTS SHEET 7 OF 18 | C |
| 2301879-321-707 | TURNING MOVEMENTS SHEET 8 OF 18 | C |
| 2301879-321-708 | TURNING MOVEMENTS SHEET 9 OF 18 | C |
| 2301879-321-709 | TURNING MOVEMENTS SHEET 10 OF 18 | C |
| 2301879-321-710 | TURNING MOVEMENTS SHEET 11 OF 18 | C |
| 2301879-321-711 | TURNING MOVEMENTS SHEET 12 OF 18 | C |
| 2301879-321-712 | TURNING MOVEMENTS SHEET 13 OF 18 | B |
| 2301879-321-713 | TURNING MOVEMENTS SHEET 14 OF 18 | B |
| 2301879-321-714 | TURNING MOVEMENTS SHEET 15 OF 18 | C |
| 2301879-321-715 | TURNING MOVEMENTS SHEET 16 OF 18 | D |
| 2301879-321-716 | TURNING MOVEMENTS SHEET 17 OF 18 | E |
| 2301879-321-717 | TURNING MOVEMENTS SHEET 18 OF 18 | C |
| 2301879-321-800 | OVERALL SOIL & WATER MANAGEMENT PLAN | C |
| 2301879-321-801 | SOIL & WATER MANAGEMENT PLAN STAGE 1 | C |
| 2301879-321-802 | SOIL & WATER MANAGEMENT PLAN STAGE 2 SHEET 1 OF 2 | C |
| 2301879-321-803 | SOIL & WATER MANAGEMENT PLAN STAGE 2 SHEET 2 OF 2 | C |
| 2301879-321-804 | SOIL & WATER MANAGEMENT PLAN STAGE 3 | C |
| 2301879-321-806 | SOIL & WATER MANAGEMENT PLAN STAGE 4 SHEET 1 OF 2 | C |
| 2301879-321-807 | SOIL & WATER MANAGEMENT PLAN STAGE 4 SHEET 2 OF 2 | C |
| 2301879-321-808 | SOIL & WATER MANAGEMENT PLAN STAGE 5 | C |
| 2301879-321-809 | SOIL & WATER MANAGEMENT PLAN STAGE 6 SHEET 1 OF 2 | C |
| 2301879-321-810 | SOIL & WATER MANAGEMENT PLAN STAGE 6 SHEET 2 OF 2 | C |
| 2301879-321-811 | SOIL & WATER MANAGEMENT PLAN STAGE 7 | C |
| 2301879-321-820 | SOIL & WATER MANAGEMENT PLAN DETAILS AND NOTES | B |
| 2301879-321-850 | C2 CONSERVATION AREA LAYOUT PLAN & SECTIONS | A |

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| E | UPDATED RESPONSE TO SUBMISSIONS | 24.03.26 | GN | SG |
| D | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| C | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| B | CARPARK & SIGNAGE AMENDMENTS | 23.10.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |
| G | RESPONSE TO REQUEST FOR INFORMATION | 10.06.26 | GN | SG |
| F | UPDATED RESPONSE TO SUBMISSIONS | 05.05.26 | GN | SG |

mirvac

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2 & 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | COVER SHEET |

Sheet 1 of 162

Scale AS SHOWN

N

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 001 | G |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-001-COV.dwg




LEGEND - FUNCTIONAL LAYOUT PLAN

- PROPOSED SUPER LOTS
- PROPOSED HOUSING LOTS
- DENOTES COMMUNITY TITLE SCHEME LOTS
- ROADS DEDICATED TO COUNCIL
- DENOTES PUBLIC OPEN SPACE OR DRAINAGE RESERVE TO BE CONSTRUCTED AND DEDICATED TO COUNCIL UNDER THIS STAGE

**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 12.5 25 50 75 100
SCALE 1:1250 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: GENERAL ARRANGEMENT & STAGING PLAN

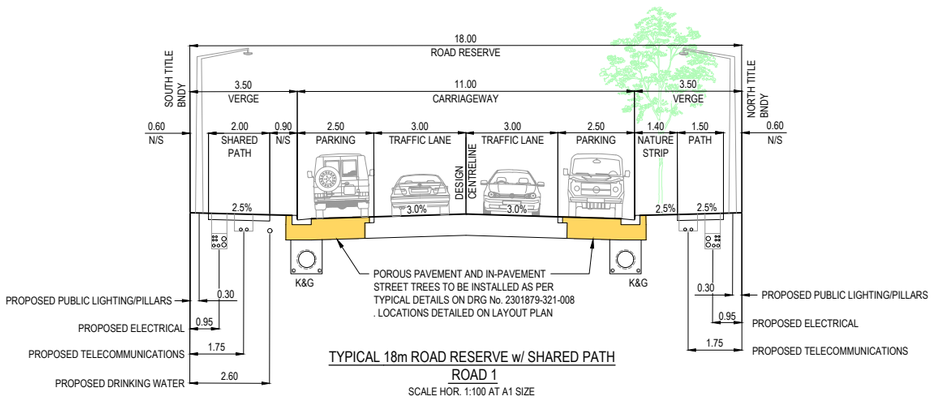
Sheet 2 of 162

Scale 1:1250 @ A1

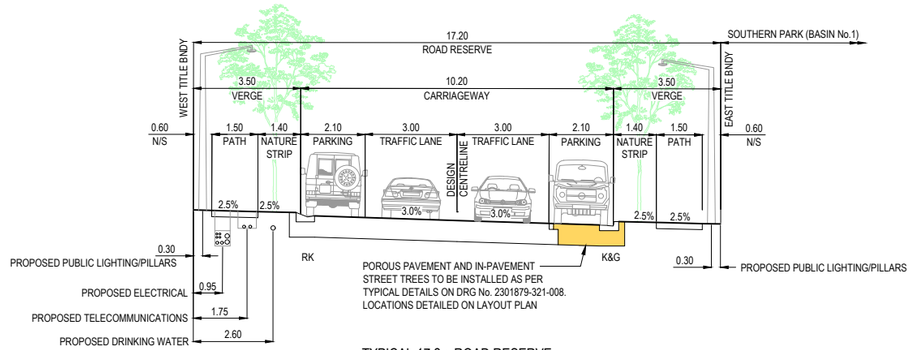
N

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 002 | B |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-002-STG.dwg



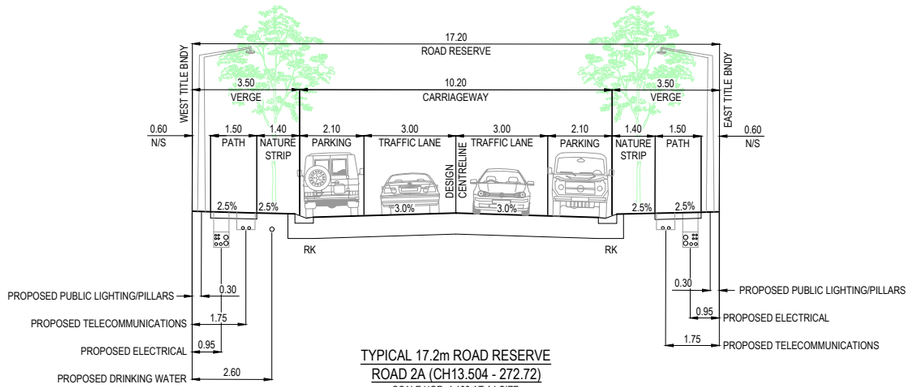

TYPICAL 18m ROAD RESERVE w/ SHARED PATH
ROAD 1
SCALE HOR. 1:100 AT A1 SIZE



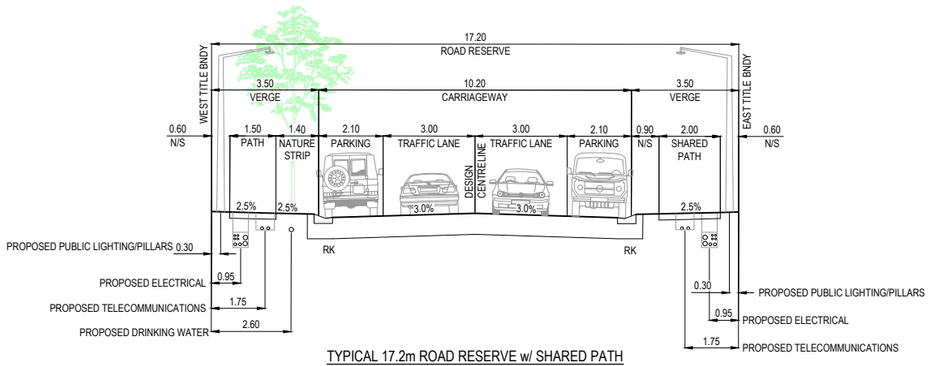

TYPICAL 17.2m ROAD RESERVE
ROAD 2A (CH366.58 - CH470.29)
SCALE HOR. 1:100 AT A1 SIZE

NOTE:
ALL PROPOSED STREET LIGHTING POLES AND GREEN VOLTAGE KIOSKS SHALL BE CENTRALLY LOCATED WITHIN THE 0.6m OFFSET BETWEEN PROPERTY BOUNDARY AND EDGE OF FOOTPATH. THERE SHALL BE NO OBSTRUCTION OR ABUTMENT OF THESE INFRASTRUCTURE TO THE FOOTPATH.

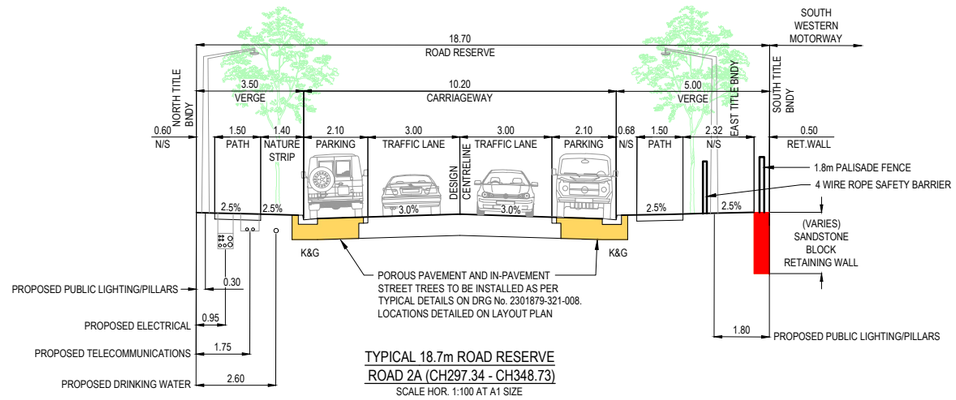
C



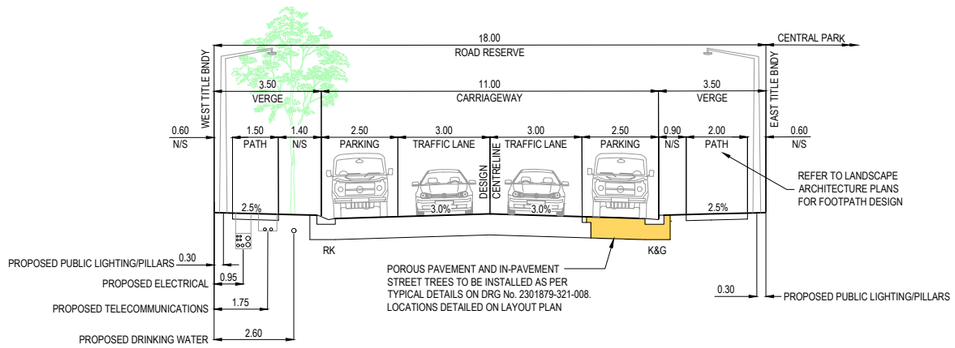

TYPICAL 17.2m ROAD RESERVE
ROAD 2A (CH13.504 - 272.72)
SCALE HOR. 1:100 AT A1 SIZE




TYPICAL 17.2m ROAD RESERVE w/ SHARED PATH
ROAD 2A (CH470.29 - CH579.182 & CH675.59 - CH716.59)
SCALE HOR. 1:100 AT A1 SIZE




TYPICAL 18.7m ROAD RESERVE
ROAD 2A (CH297.34 - CH348.73)
SCALE HOR. 1:100 AT A1 SIZE




TYPICAL 18m ROAD RESERVE
ROAD 2A (CH610.32 - CH644.58)
SCALE HOR. 1:100 AT A1 SIZE

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 1 2 4 6 8
SCALE 1:100 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| PS Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

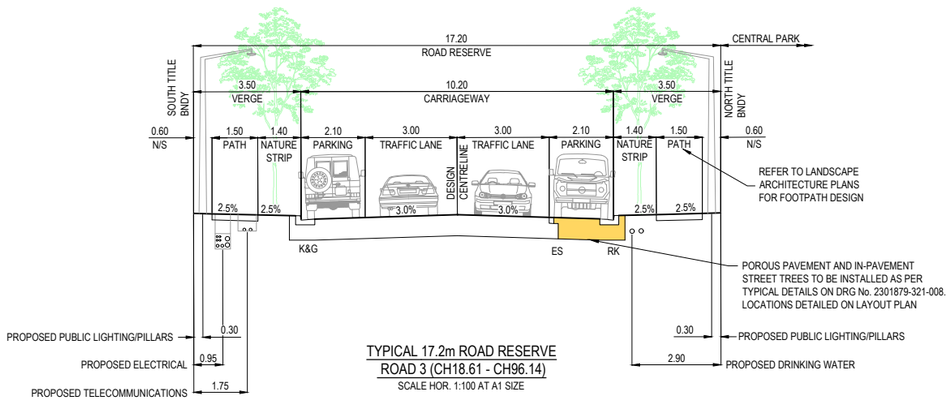
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TYPICAL ROAD CROSS SECTIONS
SHEET 1 OF 4

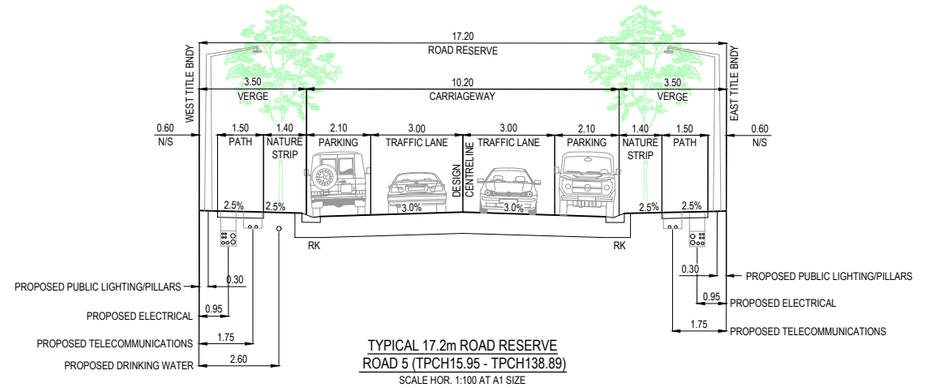
Sheet 3 of 162
Scale 1:100 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 003 | C |

C:\12DWS\data\MELSQL01\Eng - 321_357\Drawings\2301879-321-003-DET.dwg



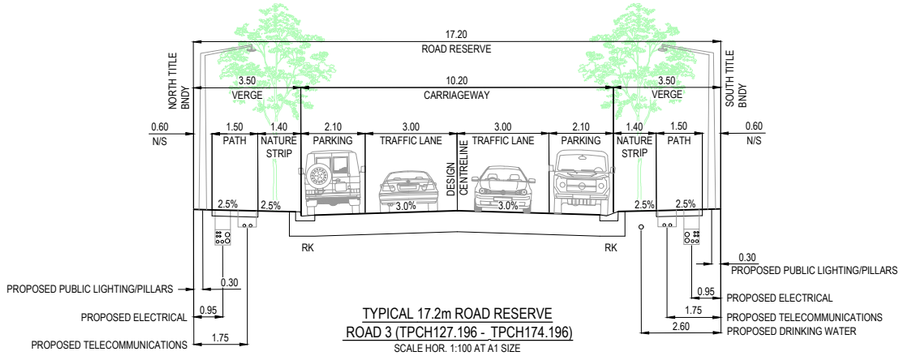

TYPICAL 17.2m ROAD RESERVE
ROAD 3 (CH18.61 - CH96.14)
SCALE HOR. 1:100 AT A1 SIZE



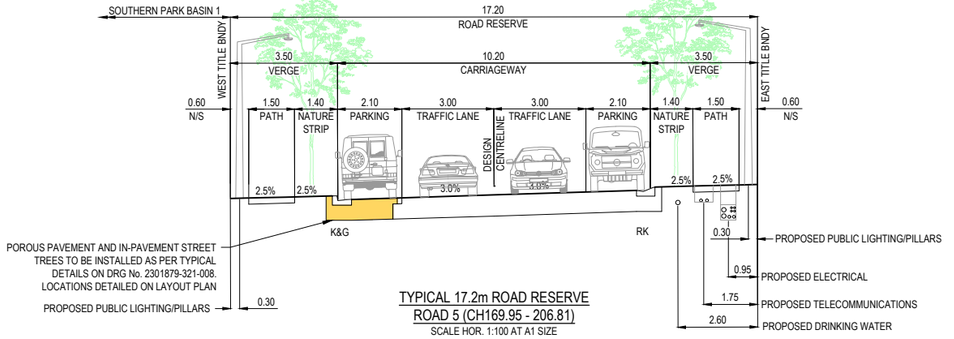

TYPICAL 17.2m ROAD RESERVE
ROAD 5 (TPCH15.95 - TPCH138.89)
SCALE HOR. 1:100 AT A1 SIZE

NOTE:
ALL PROPOSED STREET LIGHTING POLES AND GREEN VOLTAGE KIOSKS SHALL BE CENTRALLY LOCATED WITHIN THE 0.6m OFFSET BETWEEN PROPERTY BOUNDARY AND EDGE OF FOOTPATH. THERE SHALL BE NO OBSTRUCTION OR ABUTMENT OF THESE INFRASTRUCTURE TO THE FOOTPATH.

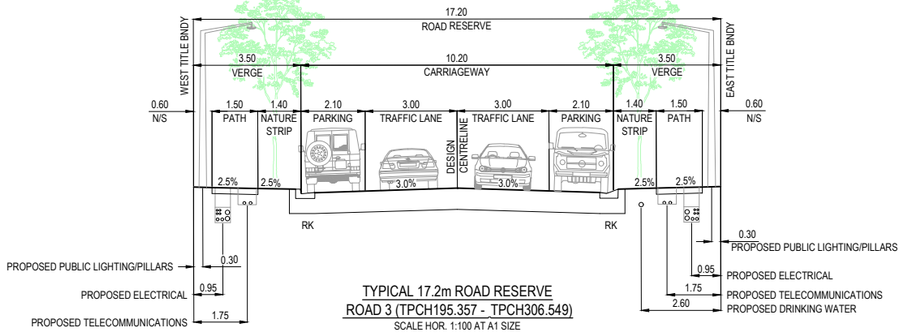
C



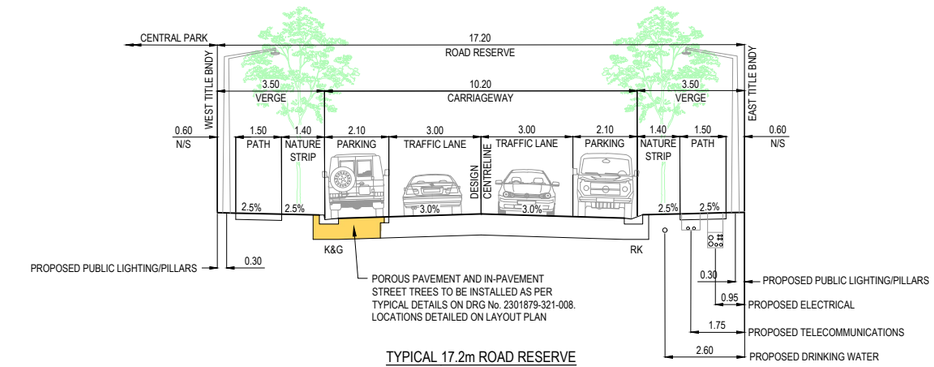

TYPICAL 17.2m ROAD RESERVE
ROAD 3 (TPCH127.196 - TPCH174.196)
SCALE HOR. 1:100 AT A1 SIZE



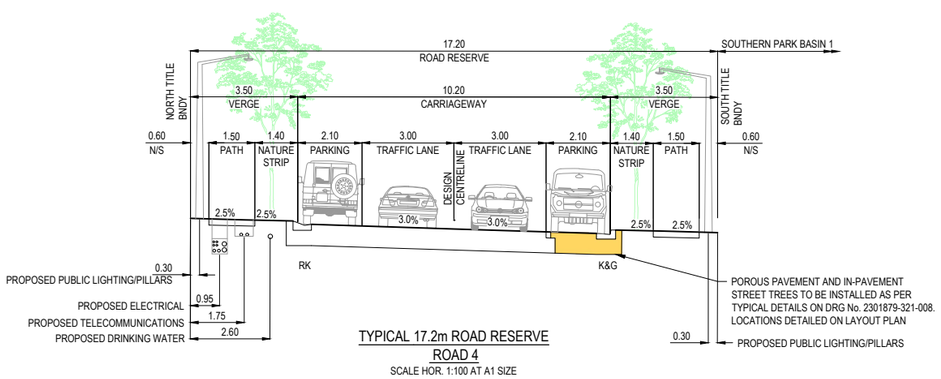

TYPICAL 17.2m ROAD RESERVE
ROAD 5 (CH169.95 - 206.81)
SCALE HOR. 1:100 AT A1 SIZE



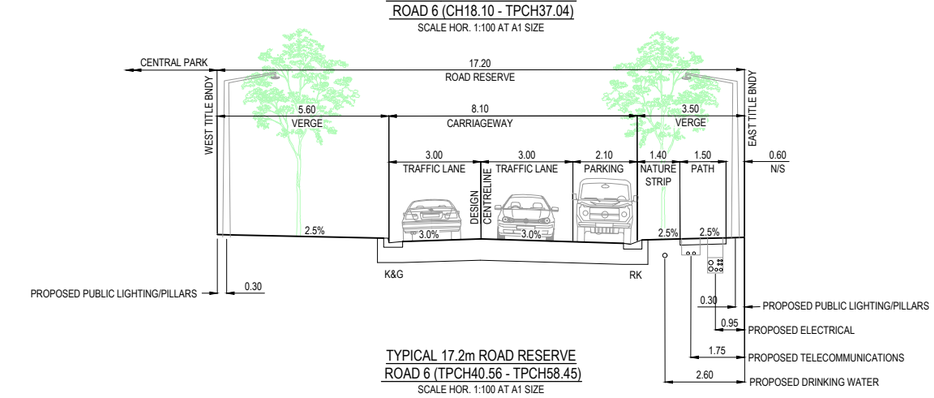

TYPICAL 17.2m ROAD RESERVE
ROAD 3 (TPCH195.357 - TPCH306.549)
SCALE HOR. 1:100 AT A1 SIZE




TYPICAL 17.2m ROAD RESERVE
ROAD 6 (CH18.10 - TPCH37.04)
SCALE HOR. 1:100 AT A1 SIZE




TYPICAL 17.2m ROAD RESERVE
ROAD 4
SCALE HOR. 1:100 AT A1 SIZE




TYPICAL 17.2m ROAD RESERVE
ROAD 6 (TPCH40.56 - TPCH58.45)
SCALE HOR. 1:100 AT A1 SIZE

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 1 2 4 6 8
SCALE 1:100 AT A1 SIZE

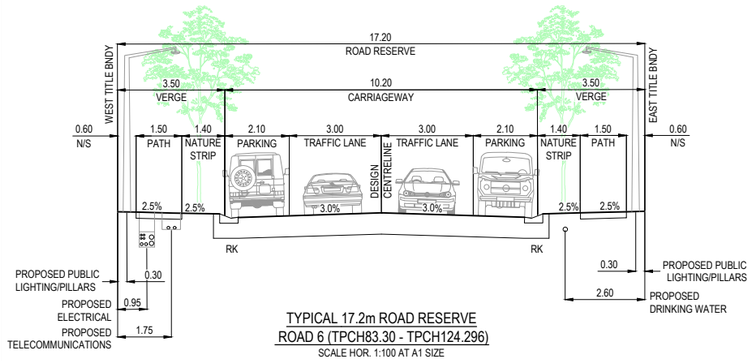
| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| PS Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

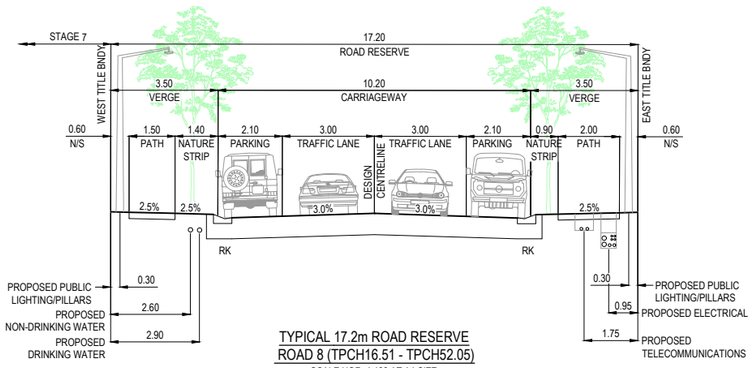
| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2 & 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | TYPICAL ROAD CROSS SECTIONS<br>SHEET 2 OF 4 |

| | | | |
|---|---|---|---|
| Sheet | 4 of 162 | | |
| Scale | 1:100 @ A1 | | |
| Project Ref | Stage No | Drawing No | Rev |
| 2301879 | 321 | 004 | C |

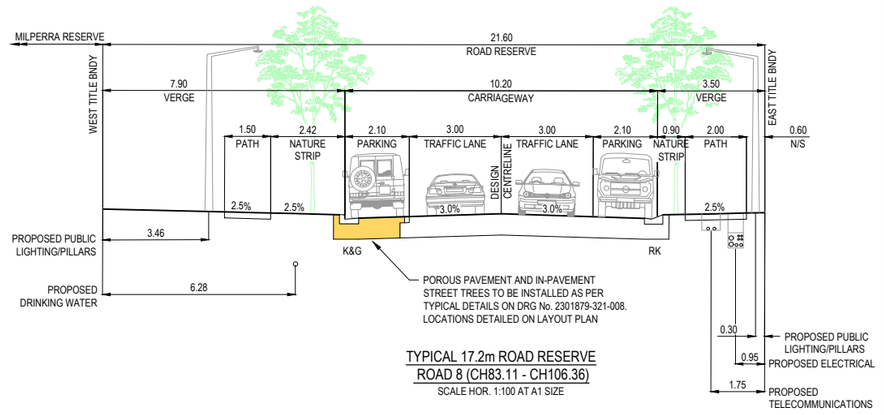
C:\12DWS\data\MELSQL01\Eng - 321_357\Drawings\2301879-321-003-DET.dwg



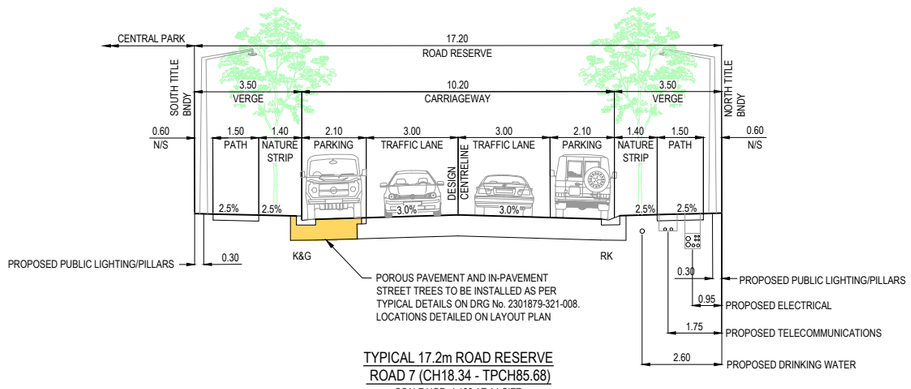

TYPICAL 17.2m ROAD RESERVE
ROAD 6 (TPCH83.30 - TPCH124.296)
SCALE HOR. 1:100 AT A1 SIZE




TYPICAL 17.2m ROAD RESERVE
ROAD 8 (TPCH16.51 - TPCH52.05)
SCALE HOR. 1:100 AT A1 SIZE



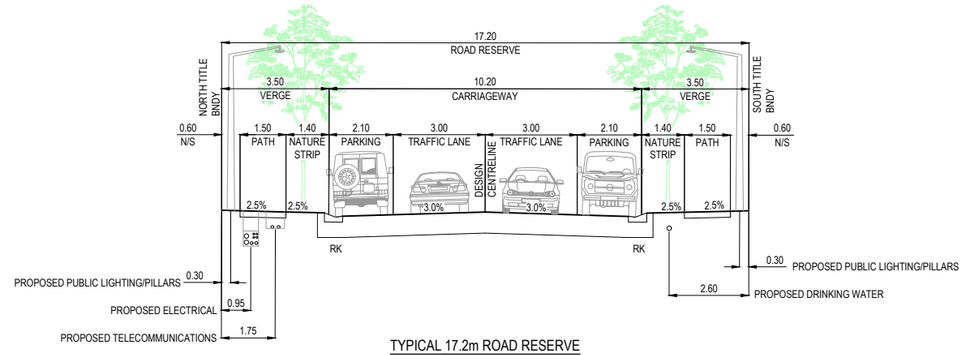

TYPICAL 17.2m ROAD RESERVE
ROAD 8 (CH83.11 - CH106.36)
SCALE HOR. 1:100 AT A1 SIZE



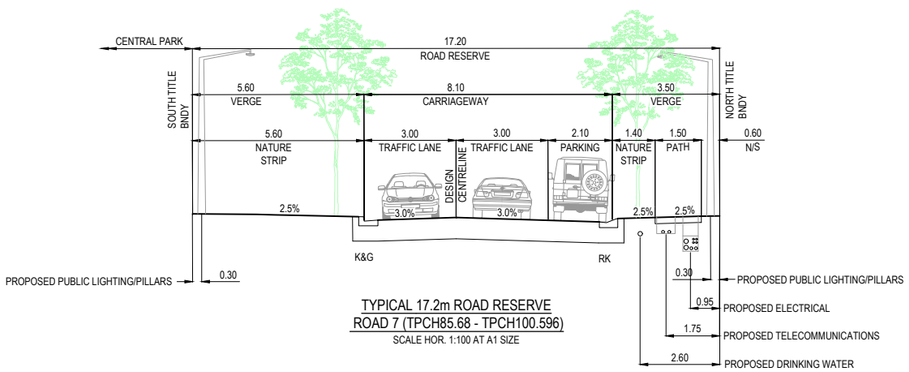

TYPICAL 17.2m ROAD RESERVE
ROAD 7 (CH18.34 - TPCH85.68)
SCALE HOR. 1:100 AT A1 SIZE

NOTE:
ALL PROPOSED STREET LIGHTING POLES AND GREEN VOLTAGE KIOSKS SHALL BE CENTRALLY LOCATED WITHIN THE 0.6m OFFSET BETWEEN PROPERTY BOUNDARY AND EDGE OF FOOTPATH. THERE SHALL BE NO OBSTRUCTION OR ABUTMENT OF THESE INFRASTRUCTURE TO THE FOOTPATH.

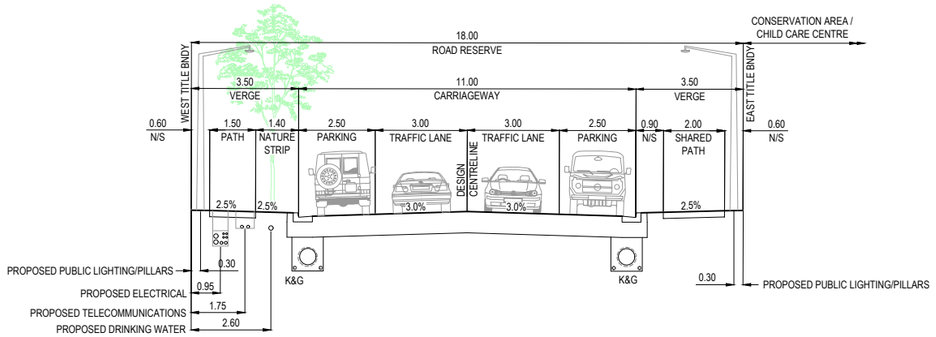
C




TYPICAL 17.2m ROAD RESERVE
ROAD 8 (CH128.67 - CH176.48 & CH197.64 - CH288.64)
SCALE HOR. 1:100 AT A1 SIZE




TYPICAL 17.2m ROAD RESERVE
ROAD 7 (TPCH85.68 - TPCH100.596)
SCALE HOR. 1:100 AT A1 SIZE




TYPICAL 18m ROAD RESERVE w/ SHARED PATH
ROAD 9 (CH13.50 - CH123.44)
SCALE HOR. 1:100 AT A1 SIZE

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 1 2 4 6 8
SCALE 1:100 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| PS Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

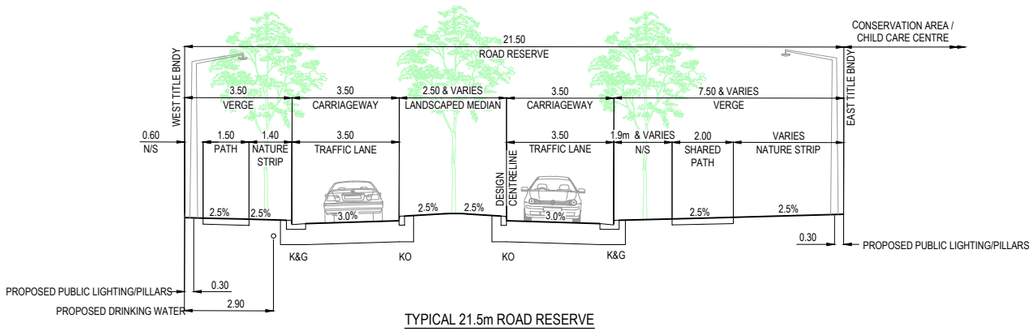
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TYPICAL ROAD CROSS SECTIONS
SHEET 3 OF 4

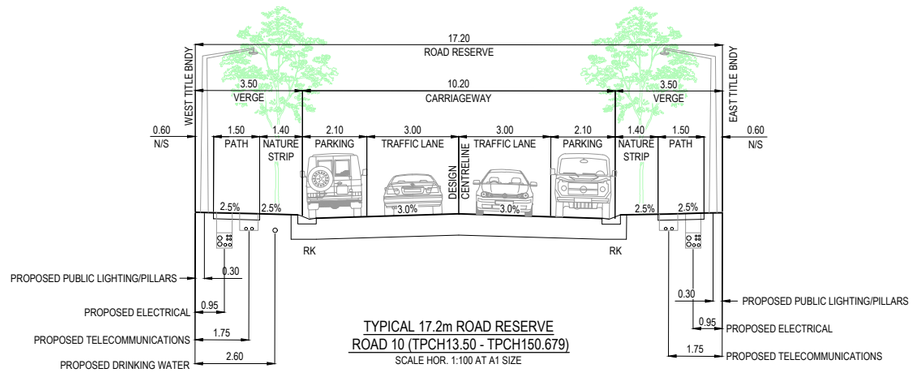
Sheet 5 of 162
Scale 1:100 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 005 | C |

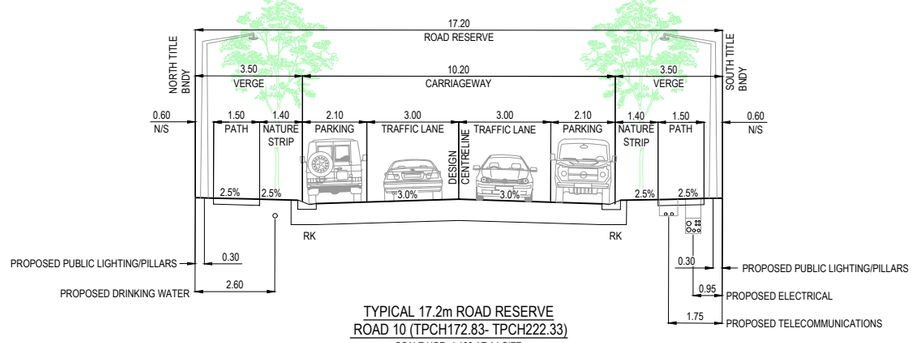
C:\12DWS\data\MELSQL01\Eng - 321_357\Drawings\2301879-321-003-DET.dwg



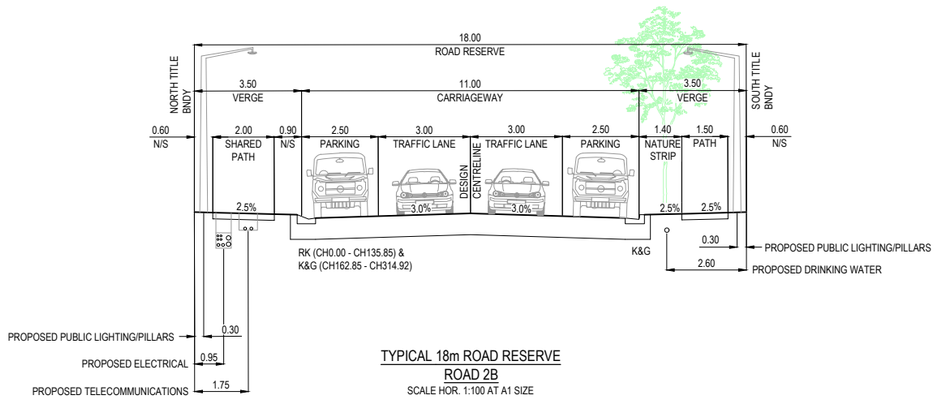

TYPICAL 21.5m ROAD RESERVE
ROAD 9 (CH123.44 & CH178.88)
SCALE HOR. 1:100 AT A1 SIZE



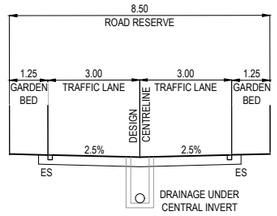

TYPICAL 17.2m ROAD RESERVE
ROAD 10 (TPCH13.50 - TPCH150.679)
SCALE HOR. 1:100 AT A1 SIZE



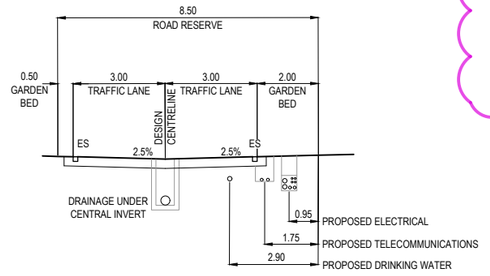

TYPICAL 17.2m ROAD RESERVE
ROAD 10 (TPCH172.83- TPCH222.33)
SCALE HOR. 1:100 AT A1 SIZE



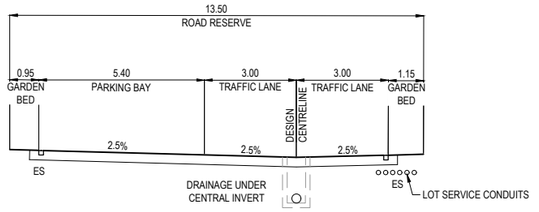

TYPICAL 18m ROAD RESERVE
ROAD 2B
SCALE HOR. 1:100 AT A1 SIZE



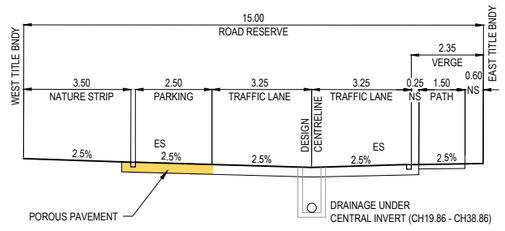

TYPICAL 8.5m ROAD RESERVE
LANE 1 & 3
SCALE HOR. 1:100 AT A1 SIZE



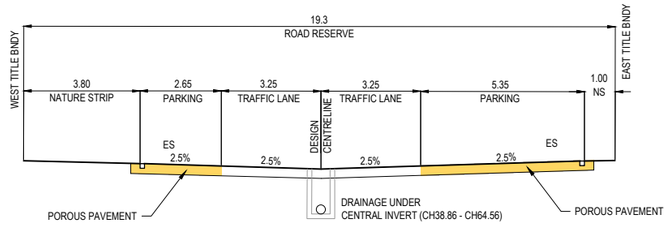

TYPICAL 8.5m ROAD RESERVE
LANE 5
SCALE HOR. 1:100 AT A1 SIZE



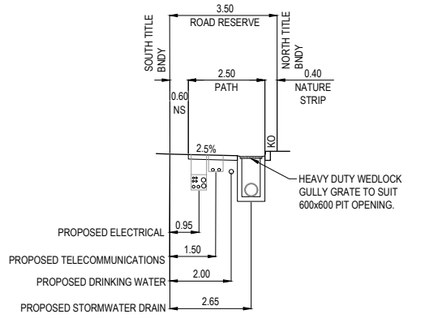

TYPICAL 13.5m ROAD RESERVE
LANE 2
SCALE HOR. 1:100 AT A1 SIZE



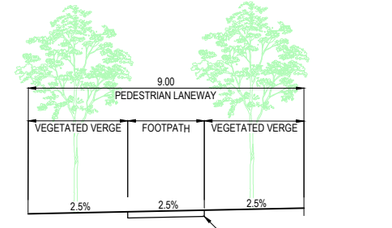

TYPICAL 15m ROAD RESERVE
LANE 4 (CH16.44 - CH38.86)
SCALE HOR. 1:100 AT A1 SIZE




TYPICAL 19.3m ROAD RESERVE
LANE 4 (CH38.86 - CH72.858)
SCALE HOR. 1:100 AT A1 SIZE




TYPICAL 3.5m
WALK 1
SCALE HOR. 1:100 AT A1 SIZE




TYPICAL 9.0m PEDESTRIAN LINK
SCALE HOR. 1:100 AT A1 SIZE

NOTE:
ALL PROPOSED STREET LIGHTING POLES AND GREEN VOLTAGE KIOSKS SHALL BE CENTRALLY LOCATED WITHIN THE 0.6m OFFSET BETWEEN PROPERTY BOUNDARY AND EDGE OF FOOTPATH. THERE SHALL BE NO OBSTRUCTION OR ABUTMENT OF THESE INFRASTRUCTURE TO THE FOOTPATH.

C

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 1 2 4 6 8
SCALE 1:100 AT A1 SIZE

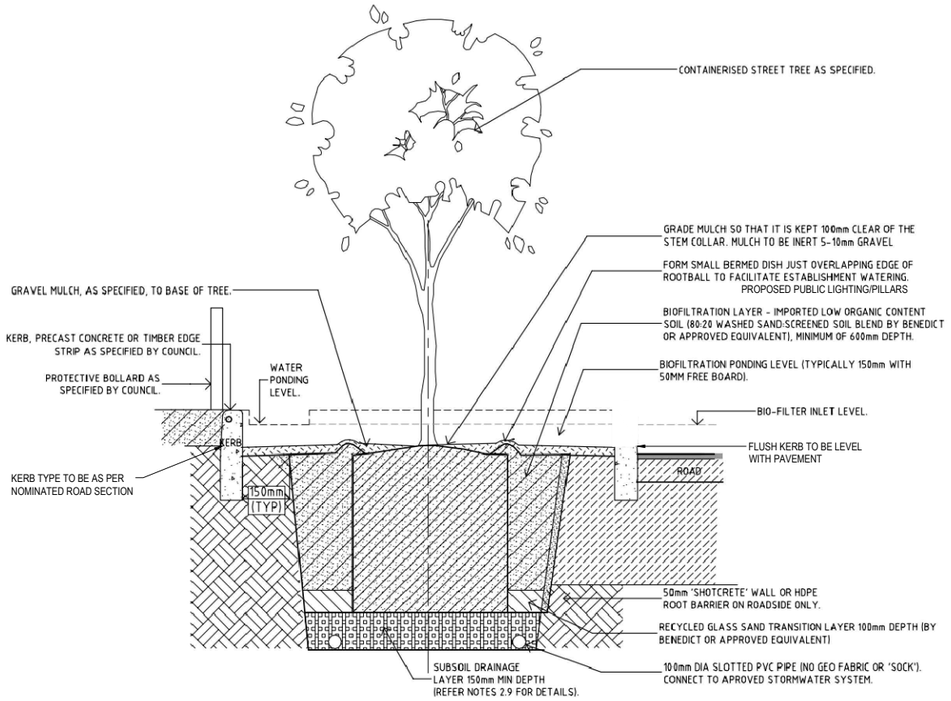
| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| PS Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2 & 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | TYPICAL ROAD CROSS SECTIONS<br>SHEET 4 OF 4 |

| Sheet | 6 of 162 | | |
|---|---|---|---|
| Scale | 1:100 @ A1 | | |
| Project Ref | Stage No | Drawing No | Rev |
| 2301879 | 321 | 006 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-003-DET.dwg

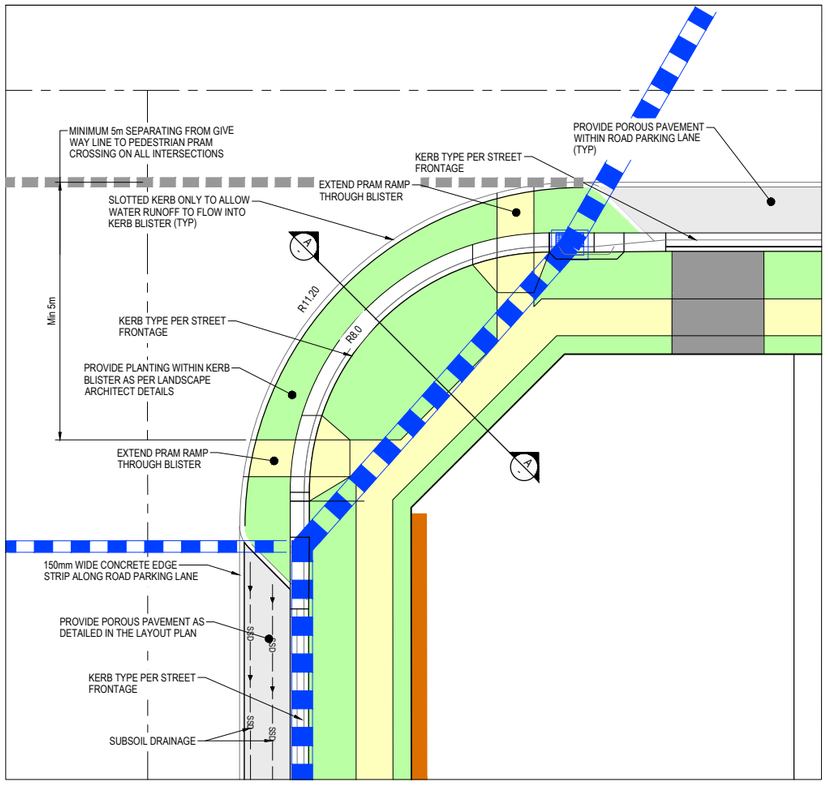



SECTION SCALE: NTS

HOLD POINTS:

1. COUNCIL TO INSPECT AT COMPLETION OF CONCRETE KERB TO ALLOW CONFIRMATION OF CORRECT LEVELS/DEPTH.
2. COUNCIL TO INSPECT AT COMPLETION OF ALL LAYERS-DRAINAGE, TRANSITION OF BIOFILTER & DEPTH OF GRAVEL MULCH
3. COUNCIL TO INSPECT THE POSITIONING & COVERING OF SUB-SOIL DRAINAGE

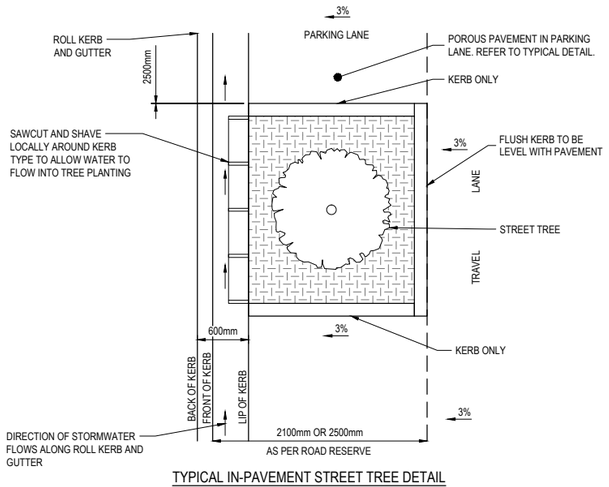
TYPICAL IN-PAVEMENT STREET TREE DETAIL
N.T.S



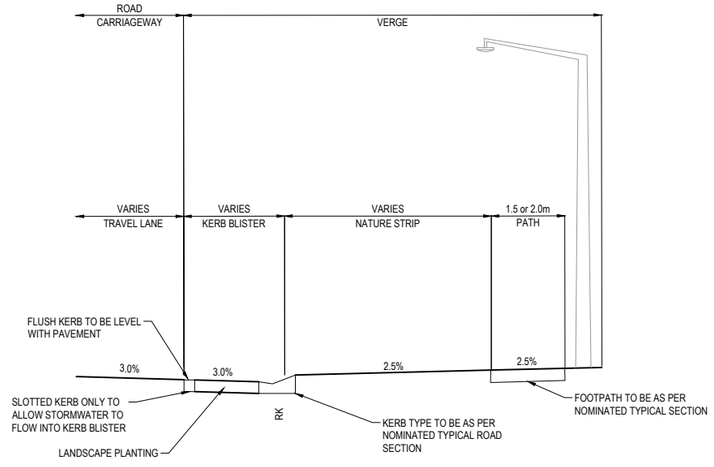

TYPICAL KERB BLISTER PLAN AND DETAILS
N.T.S

NOTE:
ALL PROPOSED STREET LIGHTING POLES AND GREEN VOLTAGE KIOSKS SHALL BE CENTRALLY LOCATED WITHIN THE 0.6m OFFSET BETWEEN PROPERTY BOUNDARY AND EDGE OF FOOTPATH. THERE SHALL BE NO OBSTRUCTION OR ABUTMENT OF THESE INFRASTRUCTURE TO THE FOOTPATH.

C




TYPICAL IN-PAVEMENT STREET TREE DETAIL
N.T.S




SECTION A: KERB BLISTER AT INTERSECTION
N.T.S

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

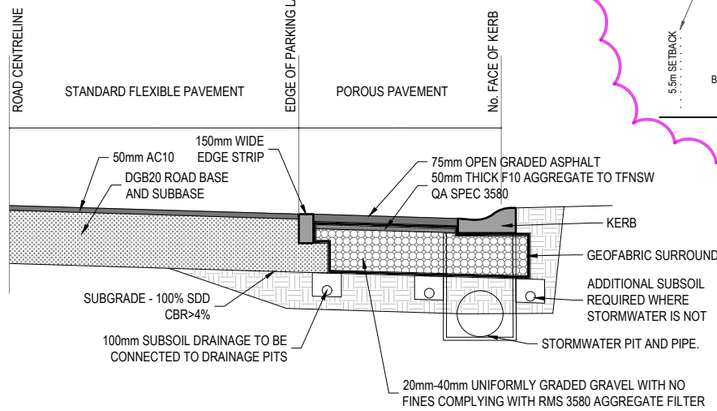
| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| PS Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

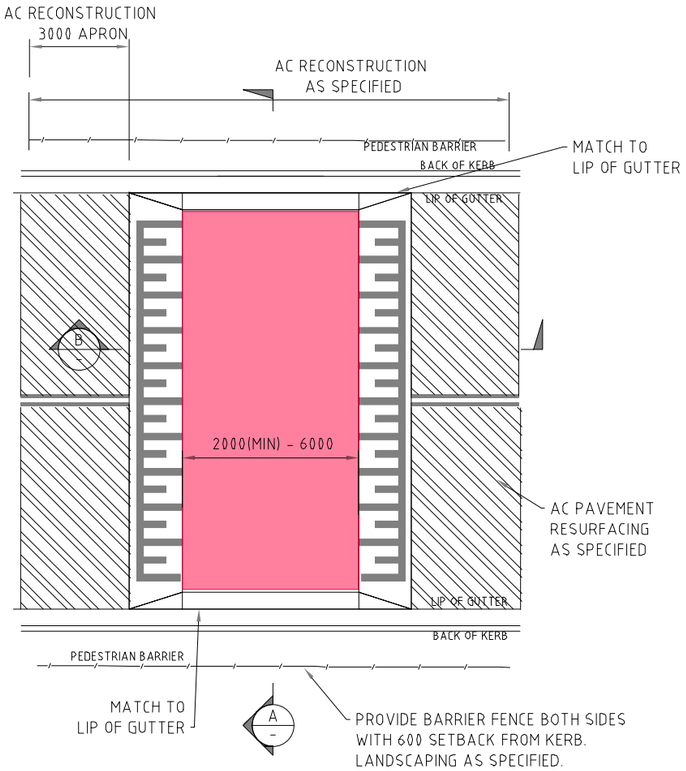
| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2 & 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | TYPICAL DETAILS SHEET 1 OF 2 |

| Sheet | 7 of 162 | | |
|---|---|---|---|
| Scale | AS SHOWN | | |
| Project Ref | Stage No | Drawing No | Rev |
| 2301879 | 321 | 007 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-003-DET.dwg



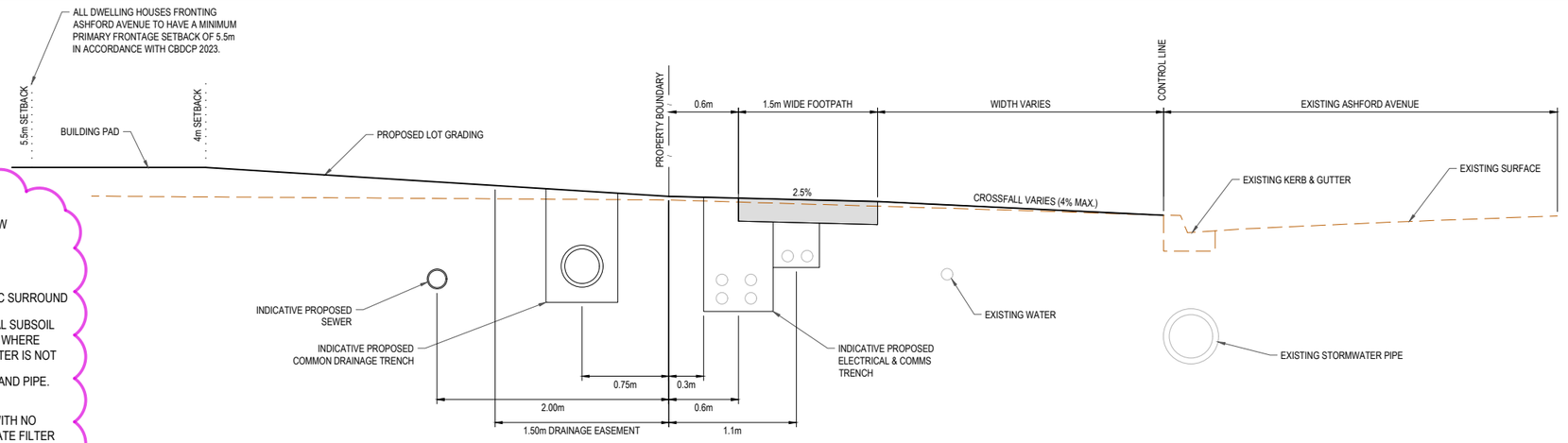

TYPICAL POROUS PAVEMENT DETAIL IN PARKING LANE
N.T.S




FOR DETAILS REFER TO CITY OF CANTERBURY BANKSTOWN STANDARD DWG No. S-309A

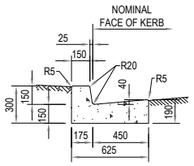
PLAN VIEW
N.T.S

STANDARD ROAD HUMP FLUSH TO GUTTER: ASPHALT
N.T.S

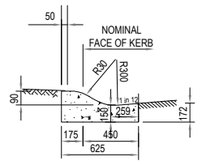



ASHFORD AVENUE TYPICAL CROSS SECTION

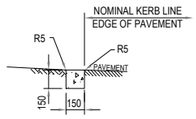
C




TYPICAL KERB & GUTTER (K&G)
N.T.S

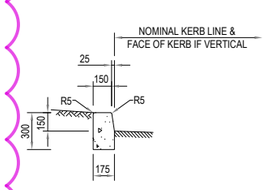



TYPICAL ROLL KERB AND GUTTER (RK)
N.T.S



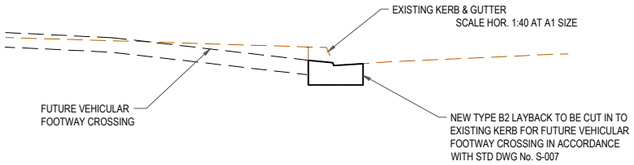

150mm EDGE STRIP

TYPICAL 150mm EDGE STRIP (ES)
N.T.S

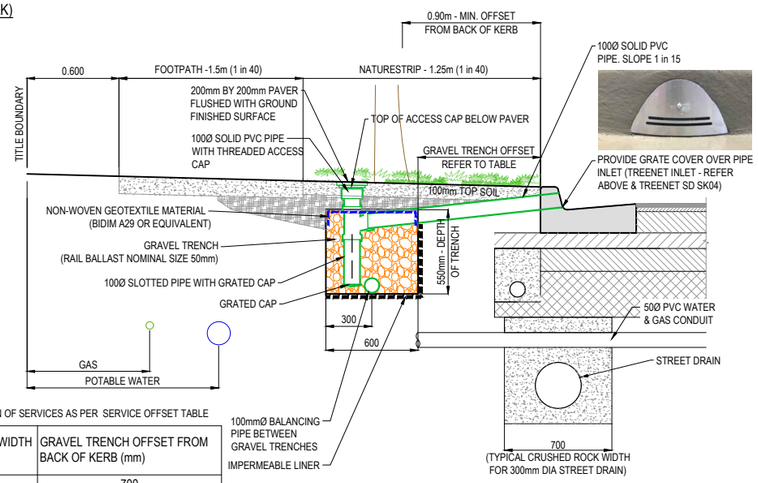



KERB ONLY

TYPICAL KERB ONLY (KO)
N.T.S




LAYBACK FOR VEHICULAR CROSSING TYPICAL SECTION
SCALE HOR. 1:40 AT A1 SIZE




NOTE: LOCATION OF SERVICES AS PER SERVICE OFFSET TABLE

| NATURESTRIP WIDTH (m) | GRAVEL TRENCH OFFSET FROM BACK OF KERB (mm) |
|---|---|
| ≤ 2.50 | 700 |
| 2.80 | 800 |

ACCESS STREET LEVEL 1
SECTION A-A

## PASSIVE IN-VERGE STREET TREE IRRIGATION GRAVEL TRENCH (KERB INLET DIVERSION)

NOT TO SCALE

NOTES:

1. AT HIGHLY CONSTRAINED SITES, GRAVEL TRENCHES CAN BE MODIFIED IN THE FOLLOWING WAYS:
   - REDUCED OFFSET OF 0.75m FROM TREE CENTRELINE
   - DIMENSION 1.0m LONG x 0.6m WIDE x 0.75m DEEP
   - NATURESTRIP ≤ 2.5m DIMENSION CAN BE 1.5m LONG x 0.4m WIDE x 0.75m DEEP
2. PASSIVE IRRIGATION PLANS TO BE READ IN CONJUNCTION WITH LANDSCAPE PLANS.

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| PS Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

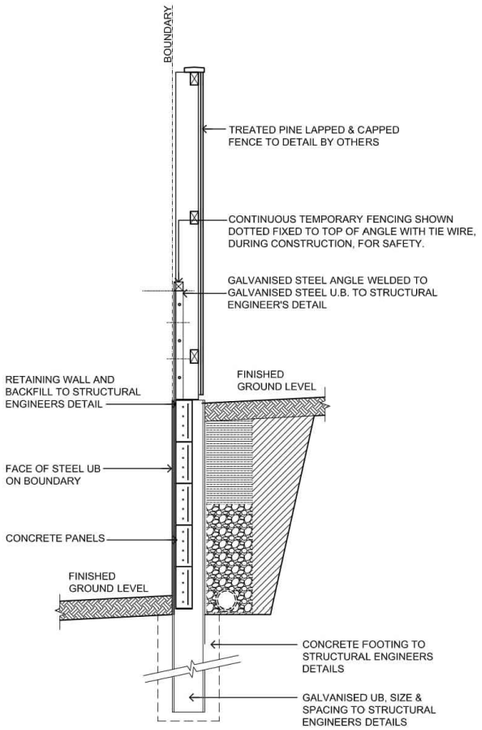
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TYPICAL DETAILS SHEET 2 OF 2

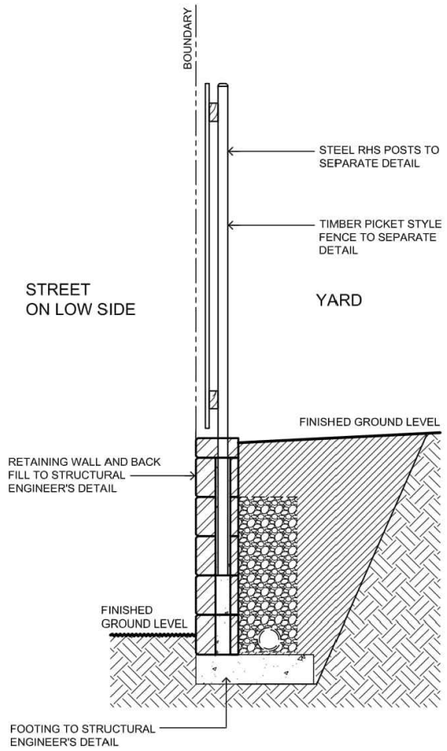
Sheet 8 of 162
Scale AS SHOWN

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 008 | C |

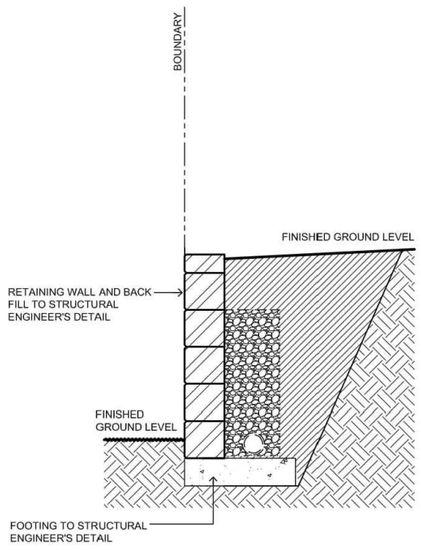
C:\12DWS\data\MELSQL01\Eng - 321_357\Drawings\2301879-321-003-DET.dwg



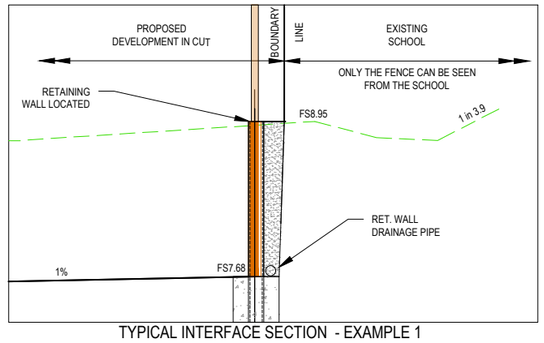

5.1 (a) RETAINING WALL STANDARD DETAIL:
POST AND CONCRETE SLEEPER WALL



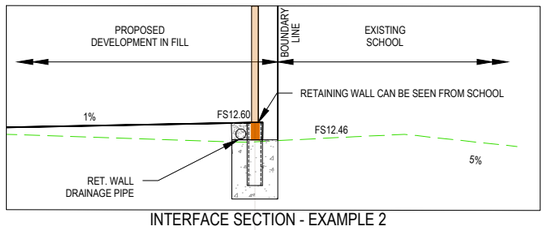

5.1 (c) RETAINING WALL STANDARD DETAIL:
MASONRY BLOCK - STREET LOW SIDE




5.1 (c) RETAINING WALL STANDARD DETAIL:
MASONRY BLOCK NO FENCE




TYPICAL INTERFACE SECTION - EXAMPLE 1




INTERFACE SECTION - EXAMPLE 2



**EXAMPLE 1:** LAPPED AND CAPPED FENCE ON TOP OF POST AND SLEEPER MASONRY RETAINING WALL - VIEW FROM THE SCHOOL WHEN THE SITE IS IN CUT



**EXAMPLE 2:** LAPPED AND CAPPED FENCE ON TOP OF A POST AND SLEEPER MASONRY RETAINING WALL - VIEW FROM THE SCHOOL WHEN THE SITE IS IN FILL

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| PS Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: RETAINING WALL DETAILS

Sheet 9 of 162
Scale AS SHOWN

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 009 | B |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-003-DET.dwg




## LEGEND - DEMOLITION PLAN PLAN

- EXISTING TREE TO BE REMOVED
- EXISTING TREE
- EXISTING TREE TO BE REMOVED DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS. REFER TO ARBORIST REPORT
- EXISTING TREE TO BE REMOVED UNDER CHAPTER 2.3 OF THE CANTERBURY-BANKSTOWN DCP (2023). REFER TO ARBORIST REPORT
- EXISTING TREES LOCATED IN THE M5 CORRIDOR
- EXTENT OF WORKS
- EXISTING STORMWATER PIT/PIPE TO BE REMOVED
- ExS — EXISTING SEWER TO BE REMOVED
- EXISTING FENCE TO BE REMOVED
- ExE — EXISTING ELECTRICITY (UNDERGROUND) TO BE REMOVED
- ExO/H E — EXISTING ELECTRICITY (OVERHEAD) TO BE REMOVED
- ExG — EXISTING GAS TO BE REMOVED
- ExT — EXISTING TELECOMMUNICATIONS TO BE REMOVED
- ExW — EXISTING WATER TO BE REMOVED
- ExFS — EXISTING FIRE SERVICE TO BE REMOVED
- EXISTING LIGHT POLE TO BE REMOVED
- EXISTING TELECOMMUNICATIONS PIT TO BE REMOVED
- EXISTING GRATED PIT TO BE REMOVED
- EXISTING GRATED PIT TO BE REMOVED
- EXISTING SEWER STRUCTURE TO BE REMOVED
- EXISTING STOP VALVE TO BE REMOVED
- EXISTING WATER HYDRANT TO BE REMOVED
- EXISTING GAS VALVE TO BE REMOVED
- EXISTING CARPARK AND ROAD TO BE DEMOLISHED AS PART OF STAGE 3A WORKS.

**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site,
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 15 30 60 90 120
SCALE 1:1500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2 & 2A BULLECOURT AVENUE, MILPERRA

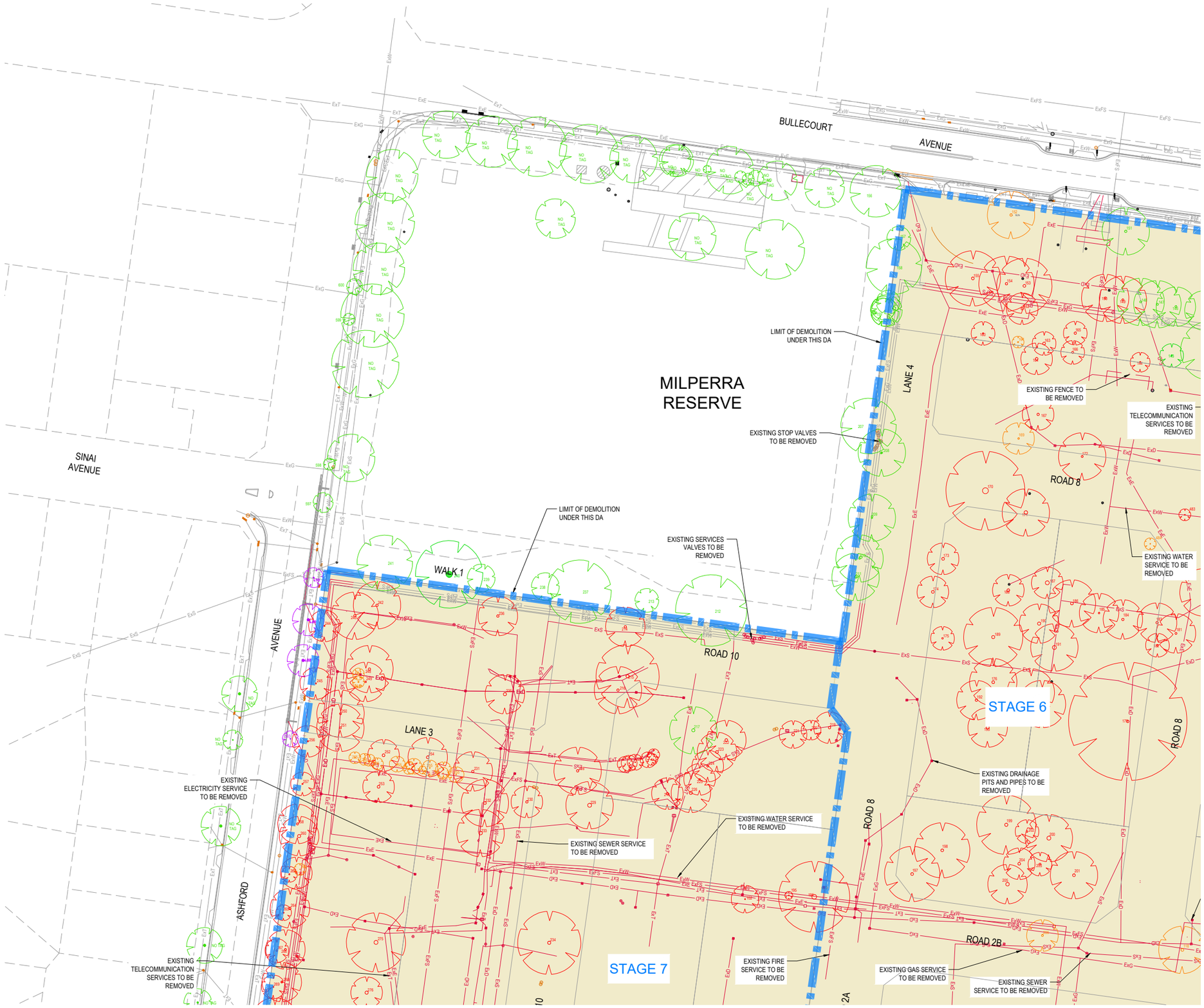
Drawing Title: OVERALL DEMOLITION PLAN

Sheet 10 of 162

Scale 1:1500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 030 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-030-DEM.dwg




## LEGEND - DEMOLITION PLAN PLAN

- EXISTING TREE TO BE REMOVED
- EXISTING TREE
- EXISTING TREE TO BE REMOVED DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS. REFER TO ARBORIST REPORT
- EXISTING TREE TO BE REMOVED UNDER CHAPTER 2.3 OF THE CANTERBURY-BANKSTOWN DCP (2023). REFER TO ARBORIST REPORT
- EXISTING TREES LOCATED IN THE M5 CORRIDOR
- EXTENT OF WORKS
- EXISTING STORMWATER PIT/PIPE TO BE REMOVED
- ExS — EXISTING SEWER TO BE REMOVED
- EXISTING FENCE TO BE REMOVED
- ExE — EXISTING ELECTRICITY (UNDERGROUND) TO BE REMOVED
- ExO/H E — EXISTING ELECTRICITY (OVERHEAD) TO BE REMOVED
- ExG — EXISTING GAS TO BE REMOVED
- ExT — EXISTING TELECOMMUNICATIONS TO BE REMOVED
- ExW — EXISTING WATER TO BE REMOVED
- ExFS — EXISTING FIRE SERVICE TO BE REMOVED
- EXISTING LIGHT POLE TO BE REMOVED
- EXISTING TELECOMMUNICATIONS PIT TO BE REMOVED
- EXISTING GRATED PIT TO BE REMOVED
- EXISTING GRATED PIT TO BE REMOVED
- EXISTING SEWER STRUCTURE TO BE REMOVED
- EXISTING STOP VALVE TO BE REMOVED
- EXISTING WATER HYDRANT TO BE REMOVED
- EXISTING GAS VALVE TO BE REMOVED
- EXISTING CARPARK AND ROAD TO BE DEMOLISHED AS PART OF STAGE 3A WORKS.

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

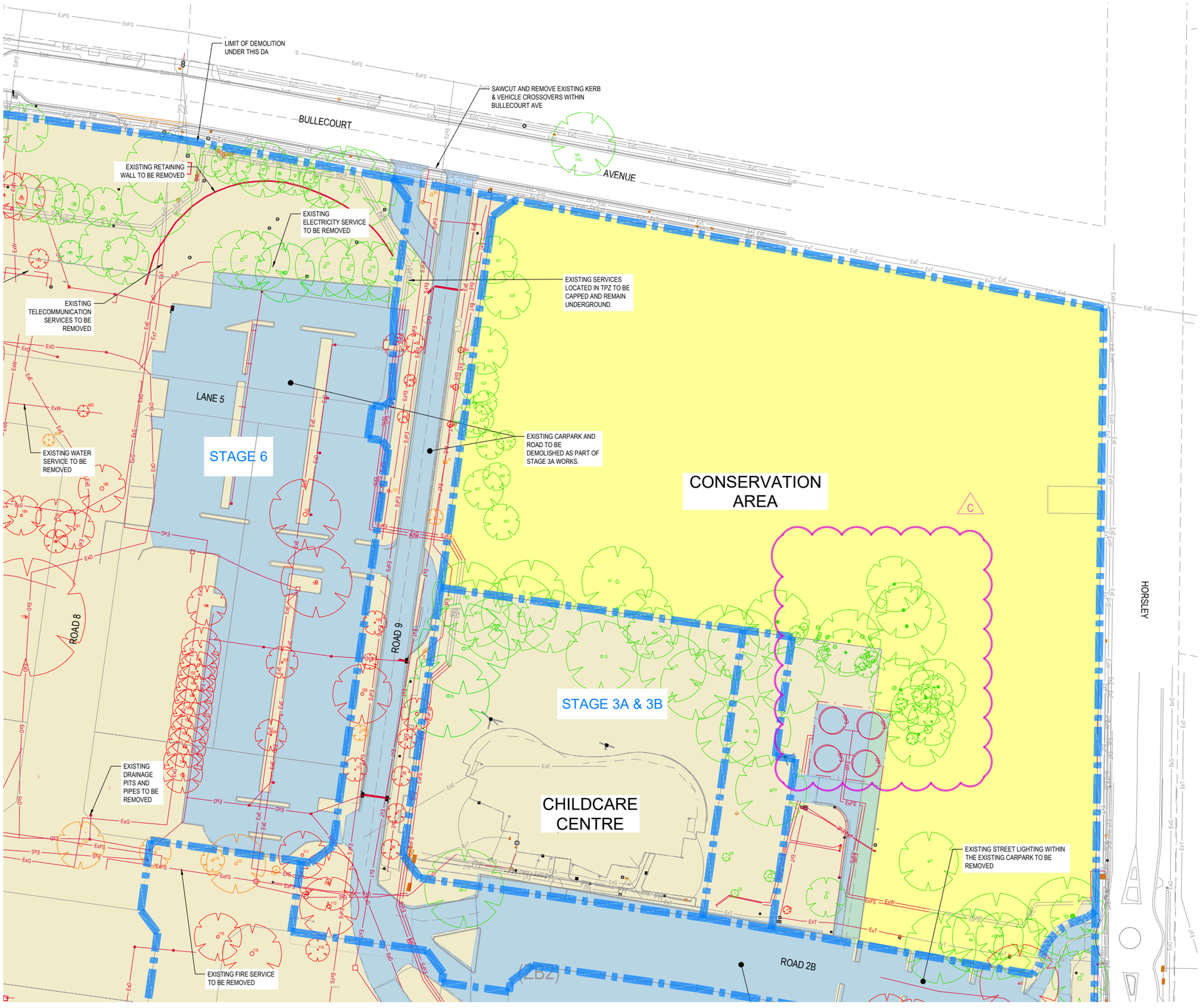
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: DEMOLITION PLAN
SHEET 1 OF 6

Sheet 11 of 162
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 031 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-030-DEM.dwg




## LEGEND - DEMOLITION PLAN PLAN

- EXISTING TREE TO BE REMOVED
- EXISTING TREE
- EXISTING TREE TO BE REMOVED DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS. REFER TO ARBORIST REPORT
- EXISTING TREE TO BE REMOVED UNDER CHAPTER 2.3 OF THE CANTERBURY-BANKSTOWN DCP (2023). REFER TO ARBORIST REPORT
- EXISTING TREES LOCATED IN THE M5 CORRIDOR
- EXTENT OF WORKS
- EXISTING STORMWATER PIT/PIPE TO BE REMOVED
- ExS — EXISTING SEWER TO BE REMOVED
- EXISTING FENCE TO BE REMOVED
- ExE — EXISTING ELECTRICITY (UNDERGROUND) TO BE REMOVED
- ExO/H E — EXISTING ELECTRICITY (OVERHEAD) TO BE REMOVED
- ExG — EXISTING GAS TO BE REMOVED
- ExT — EXISTING TELECOMMUNICATIONS TO BE REMOVED
- ExW — EXISTING WATER TO BE REMOVED
- ExFS — EXISTING FIRE SERVICE TO BE REMOVED
- EXISTING LIGHT POLE TO BE REMOVED
- EXISTING TELECOMMUNICATIONS PIT TO BE REMOVED
- EXISTING GRATED PIT TO BE REMOVED
- EXISTING GRATED PIT TO BE REMOVED
- EXISTING SEWER STRUCTURE TO BE REMOVED
- EXISTING STOP VALVE TO BE REMOVED
- EXISTING WATER HYDRANT TO BE REMOVED
- EXISTING GAS VALVE TO BE REMOVED
- EXISTING CARPARK AND ROAD TO BE DEMOLISHED AS PART OF STAGE 3A WORKS.

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

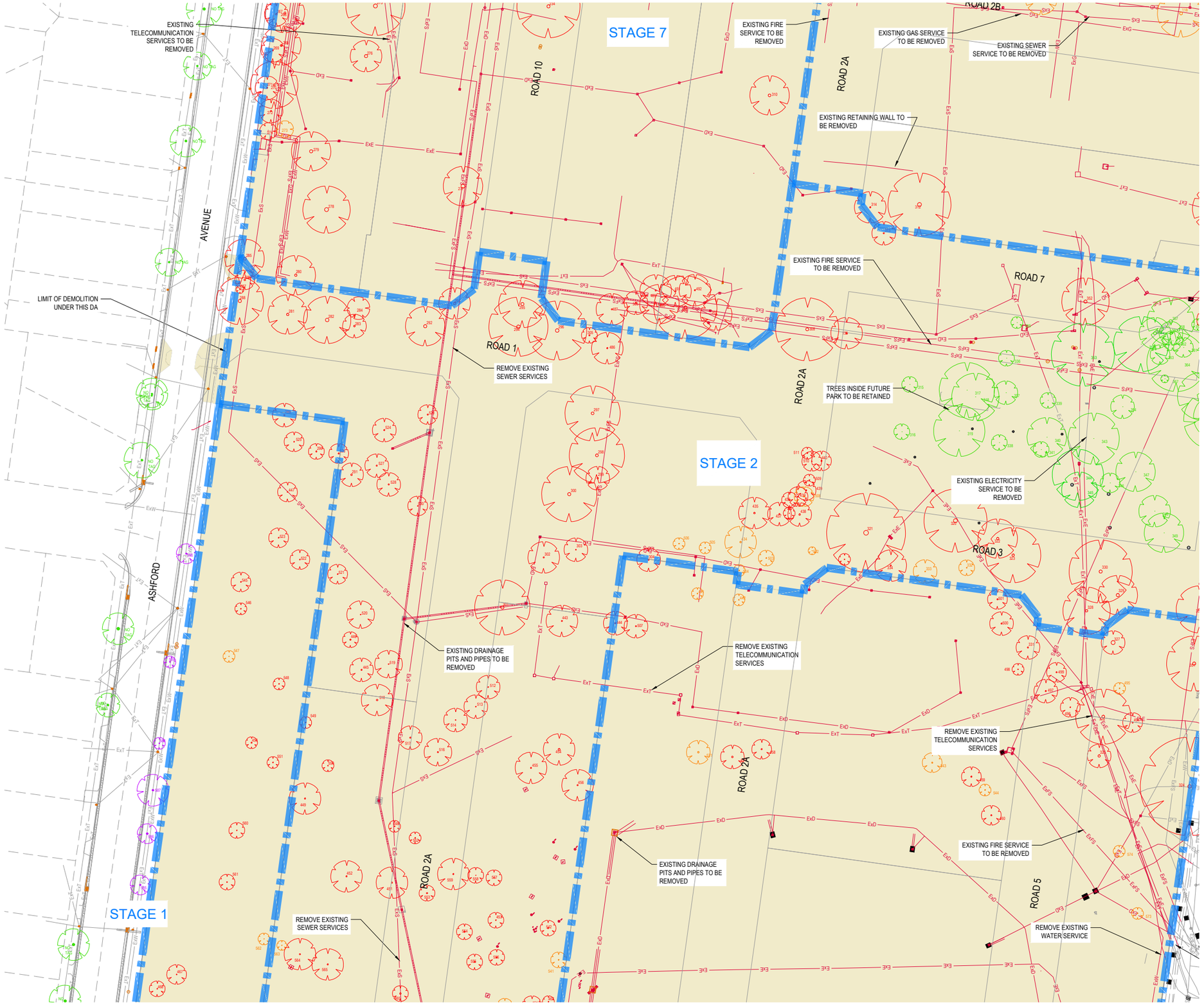
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: DEMOLITION PLAN
SHEET 2 OF 6

Sheet 12 of 162
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 032 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-030-DEM.dwg




## LEGEND - DEMOLITION PLAN PLAN

- EXISTING TREE TO BE REMOVED
- EXISTING TREE
- EXISTING TREE TO BE REMOVED DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS. REFER TO ARBORIST REPORT
- EXISTING TREE TO BE REMOVED UNDER CHAPTER 2.3 OF THE CANTERBURY-BANKSTOWN DCP (2023). REFER TO ARBORIST REPORT
- EXISTING TREES LOCATED IN THE M5 CORRIDOR
- EXTENT OF WORKS
- EXISTING STORMWATER PIT/PIPE TO BE REMOVED
- ExS — EXISTING SEWER TO BE REMOVED
- EXISTING FENCE TO BE REMOVED
- ExE — EXISTING ELECTRICITY (UNDERGROUND) TO BE REMOVED
- ExO/H E — EXISTING ELECTRICITY (OVERHEAD) TO BE REMOVED
- ExG — EXISTING GAS TO BE REMOVED
- ExT — EXISTING TELECOMMUNICATIONS TO BE REMOVED
- ExW — EXISTING WATER TO BE REMOVED
- ExFS — EXISTING FIRE SERVICE TO BE REMOVED
- EXISTING LIGHT POLE TO BE REMOVED
- EXISTING TELECOMMUNICATIONS PIT TO BE REMOVED
- EXISTING GRATED PIT TO BE REMOVED
- EXISTING GRATED PIT TO BE REMOVED
- EXISTING SEWER STRUCTURE TO BE REMOVED
- EXISTING STOP VALVE TO BE REMOVED
- EXISTING WATER HYDRANT TO BE REMOVED
- EXISTING GAS VALVE TO BE REMOVED
- EXISTING CARPARK AND ROAD TO BE DEMOLISHED AS PART OF STAGE 3A WORKS.

C

**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

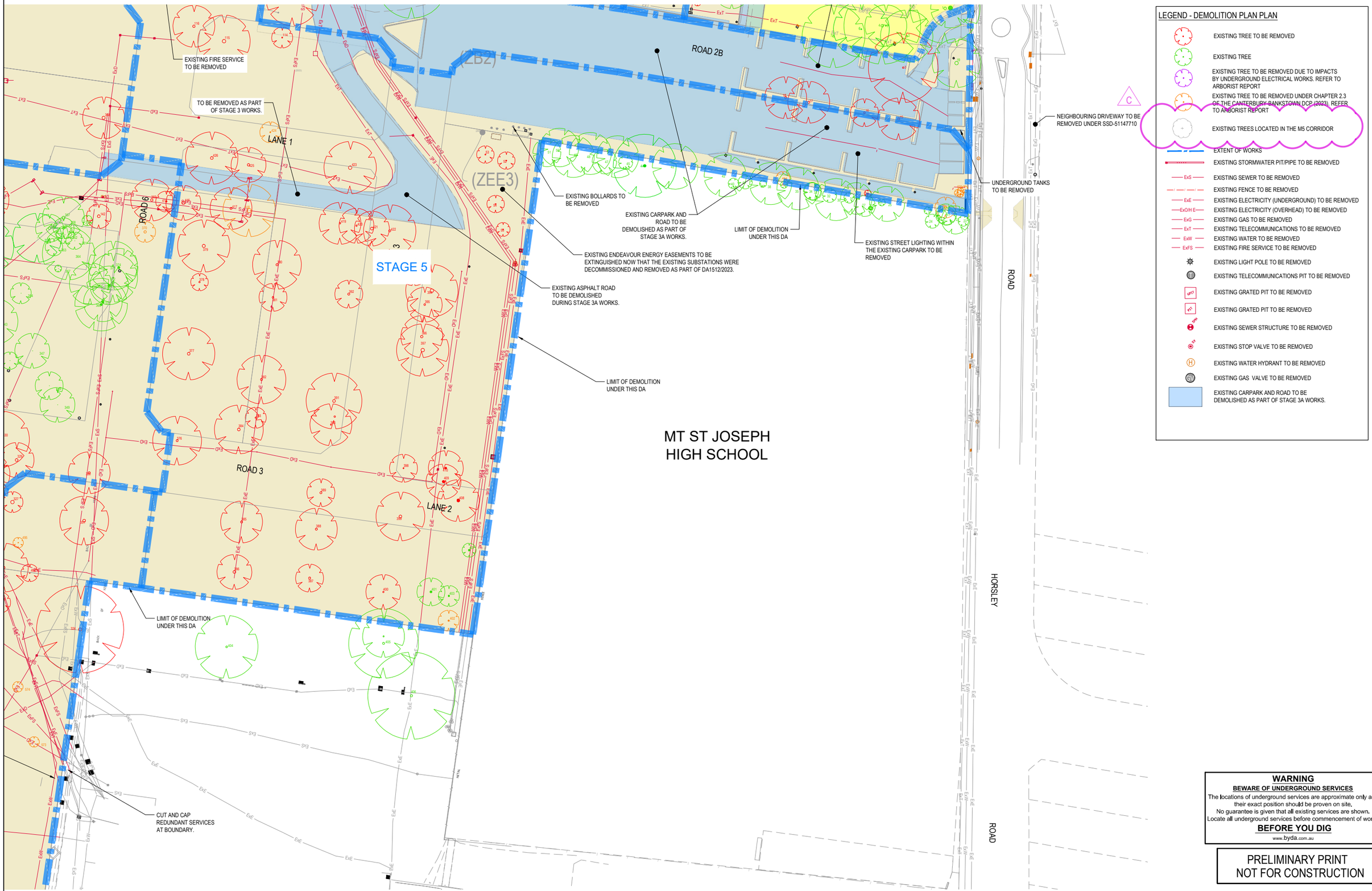
Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2 & 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | DEMOLITION PLAN<br>SHEET 3 OF 6 |

Sheet 13 of 162
Scale 1:500 @ A1
N

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 033 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-030-DEM.dwg




## LEGEND - DEMOLITION PLAN PLAN

- EXISTING TREE TO BE REMOVED
- EXISTING TREE
- EXISTING TREE TO BE REMOVED DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS. REFER TO ARBORIST REPORT
- EXISTING TREE TO BE REMOVED UNDER CHAPTER 2.3 OF THE CANTERBURY-BANKSTOWN DCP (2023). REFER TO ARBORIST REPORT
- EXISTING TREES LOCATED IN THE M5 CORRIDOR
- EXTENT OF WORKS
- EXISTING STORMWATER PIT/PIPE TO BE REMOVED
- ExS — EXISTING SEWER TO BE REMOVED
- EXISTING FENCE TO BE REMOVED
- ExE — EXISTING ELECTRICITY (UNDERGROUND) TO BE REMOVED
- ExO/H E — EXISTING ELECTRICITY (OVERHEAD) TO BE REMOVED
- ExG — EXISTING GAS TO BE REMOVED
- ExT — EXISTING TELECOMMUNICATIONS TO BE REMOVED
- ExW — EXISTING WATER TO BE REMOVED
- ExFS — EXISTING FIRE SERVICE TO BE REMOVED
- EXISTING LIGHT POLE TO BE REMOVED
- EXISTING TELECOMMUNICATIONS PIT TO BE REMOVED
- EXISTING GRATED PIT TO BE REMOVED
- EXISTING GRATED PIT TO BE REMOVED
- EXISTING SEWER STRUCTURE TO BE REMOVED
- EXISTING STOP VALVE TO BE REMOVED
- EXISTING WATER HYDRANT TO BE REMOVED
- EXISTING GAS VALVE TO BE REMOVED
- EXISTING CARPARK AND ROAD TO BE DEMOLISHED AS PART OF STAGE 3A WORKS.

**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

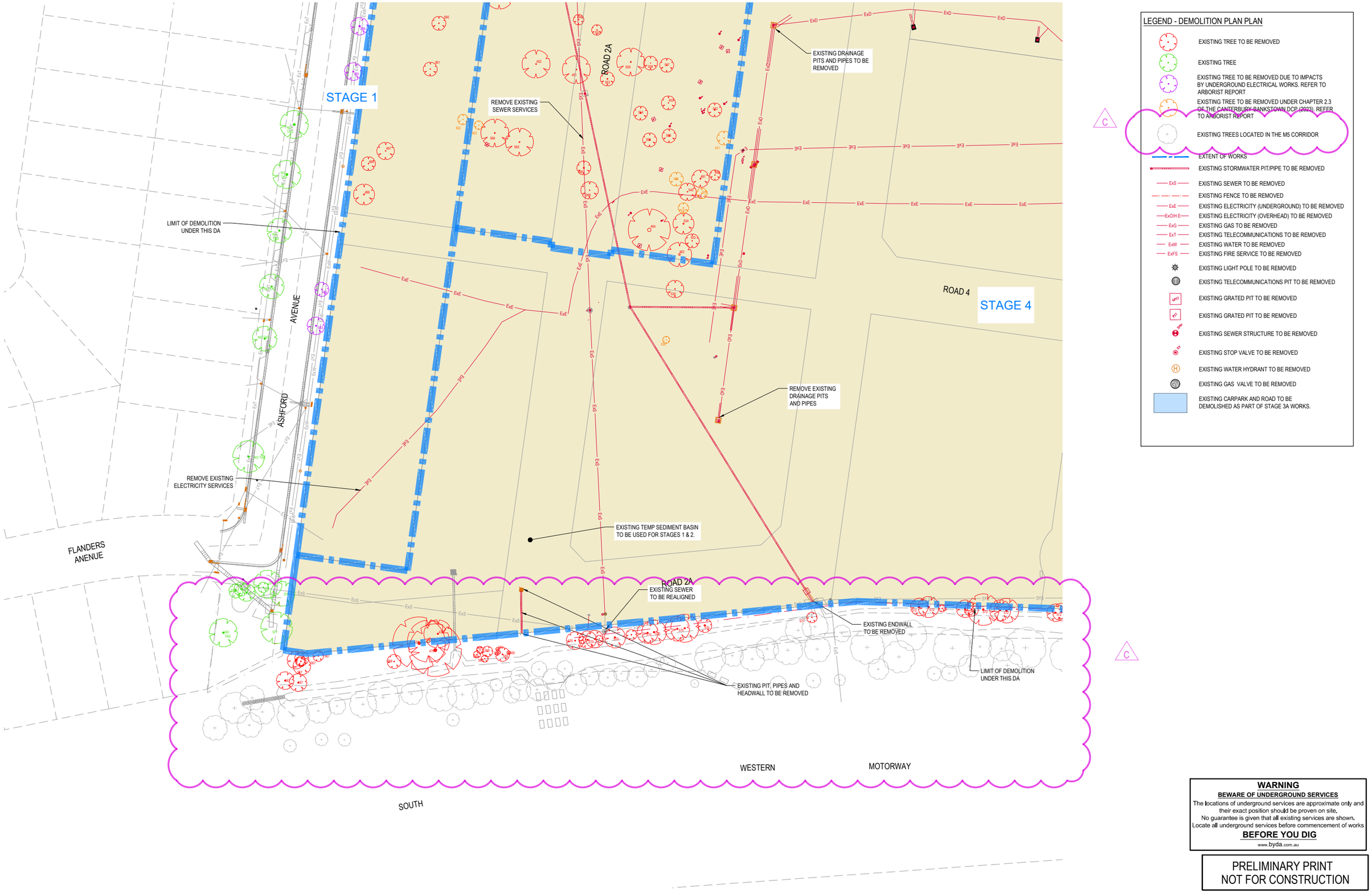
Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2 & 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | DEMOLITION PLAN<br>SHEET 4 OF 6 |

Sheet 14 of 162
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 034 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-030-DEM.dwg




## LEGEND - DEMOLITION PLAN PLAN

- EXISTING TREE TO BE REMOVED
- EXISTING TREE
- EXISTING TREE TO BE REMOVED DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS. REFER TO ARBORIST REPORT
- EXISTING TREE TO BE REMOVED UNDER CHAPTER 2.3 OF THE CANTERBURY-BANKSTOWN DCP (2023). REFER TO ARBORIST REPORT
- EXISTING TREES LOCATED IN THE M5 CORRIDOR
- EXTENT OF WORKS
- EXISTING STORMWATER PIT/PIPE TO BE REMOVED
- ExS — EXISTING SEWER TO BE REMOVED
- EXISTING FENCE TO BE REMOVED
- ExE — EXISTING ELECTRICITY (UNDERGROUND) TO BE REMOVED
- ExO/H E — EXISTING ELECTRICITY (OVERHEAD) TO BE REMOVED
- ExG — EXISTING GAS TO BE REMOVED
- ExT — EXISTING TELECOMMUNICATIONS TO BE REMOVED
- ExW — EXISTING WATER TO BE REMOVED
- ExFS — EXISTING FIRE SERVICE TO BE REMOVED
- EXISTING LIGHT POLE TO BE REMOVED
- EXISTING TELECOMMUNICATIONS PIT TO BE REMOVED
- EXISTING GRATED PIT TO BE REMOVED
- EXISTING GRATED PIT TO BE REMOVED
- EXISTING SEWER STRUCTURE TO BE REMOVED
- EXISTING STOP VALVE TO BE REMOVED
- EXISTING WATER HYDRANT TO BE REMOVED
- EXISTING GAS VALVE TO BE REMOVED
- EXISTING CARPARK AND ROAD TO BE DEMOLISHED AS PART OF STAGE 3A WORKS.

**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

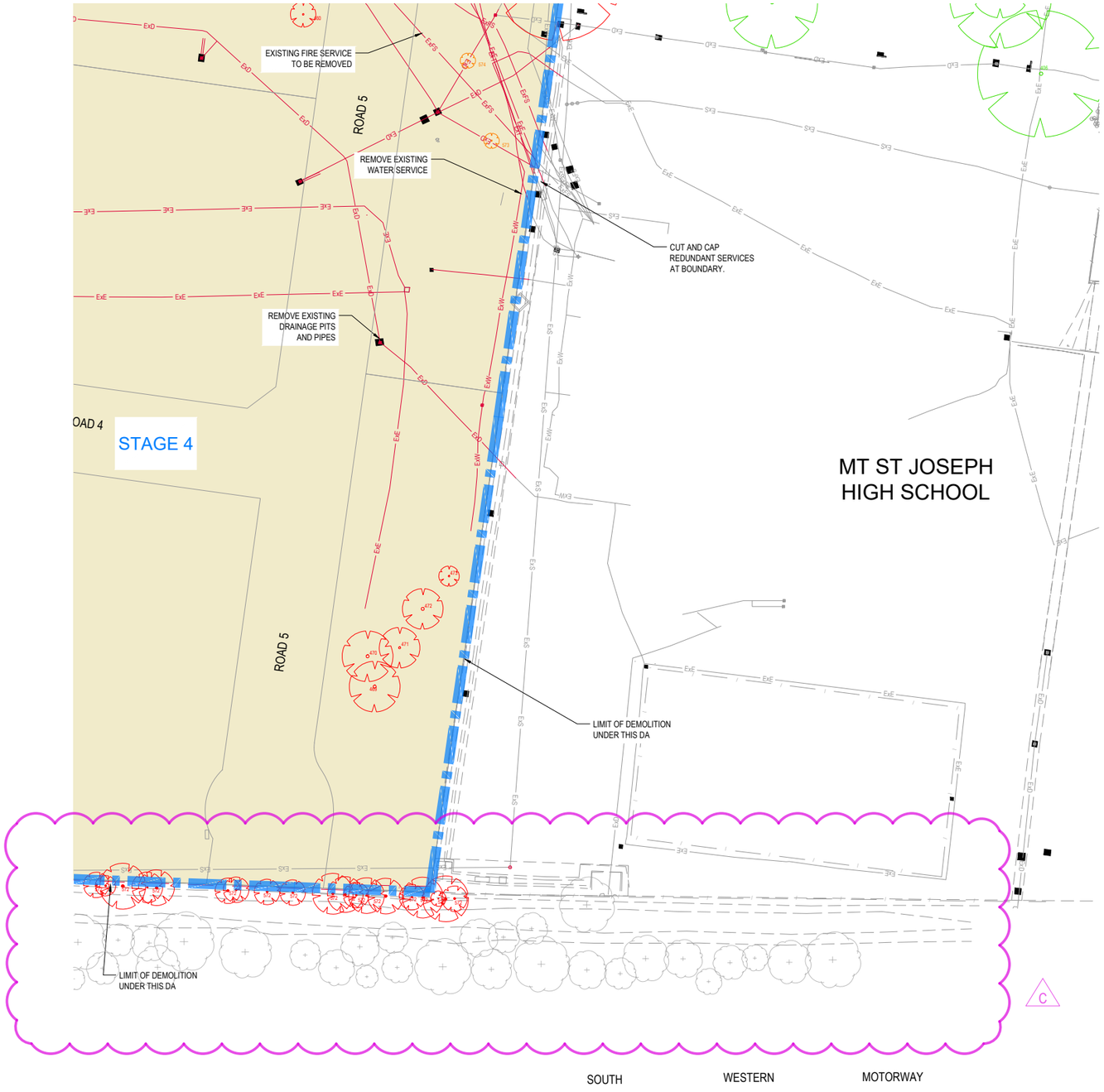
Drawing Title: DEMOLITION PLAN
SHEET 5 OF 6

Sheet 15 of 162

Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 035 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-030-DEM.dwg




## LEGEND - DEMOLITION PLAN PLAN

- EXISTING TREE TO BE REMOVED
- EXISTING TREE
- EXISTING TREE TO BE REMOVED DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS. REFER TO ARBORIST REPORT
- EXISTING TREE TO BE REMOVED UNDER CHAPTER 2.3 OF THE CANTERBURY-BANKSTOWN DCP (2023). REFER TO ARBORIST REPORT
- EXISTING TREES LOCATED IN THE M5 CORRIDOR
- EXTENT OF WORKS
- EXISTING STORMWATER PIT/PIPE TO BE REMOVED
- ExS — EXISTING SEWER TO BE REMOVED
- EXISTING FENCE TO BE REMOVED
- ExE — EXISTING ELECTRICITY (UNDERGROUND) TO BE REMOVED
- ExO/H E — EXISTING ELECTRICITY (OVERHEAD) TO BE REMOVED
- ExG — EXISTING GAS TO BE REMOVED
- ExT — EXISTING TELECOMMUNICATIONS TO BE REMOVED
- ExW — EXISTING WATER TO BE REMOVED
- ExFS — EXISTING FIRE SERVICE TO BE REMOVED
- EXISTING LIGHT POLE TO BE REMOVED
- EXISTING TELECOMMUNICATIONS PIT TO BE REMOVED
- EXISTING GRATED PIT TO BE REMOVED
- EXISTING GRATED PIT TO BE REMOVED
- EXISTING SEWER STRUCTURE TO BE REMOVED
- EXISTING STOP VALVE TO BE REMOVED
- EXISTING WATER HYDRANT TO BE REMOVED
- EXISTING GAS VALVE TO BE REMOVED
- EXISTING CARPARK AND ROAD TO BE DEMOLISHED AS PART OF STAGE 3A WORKS.

**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

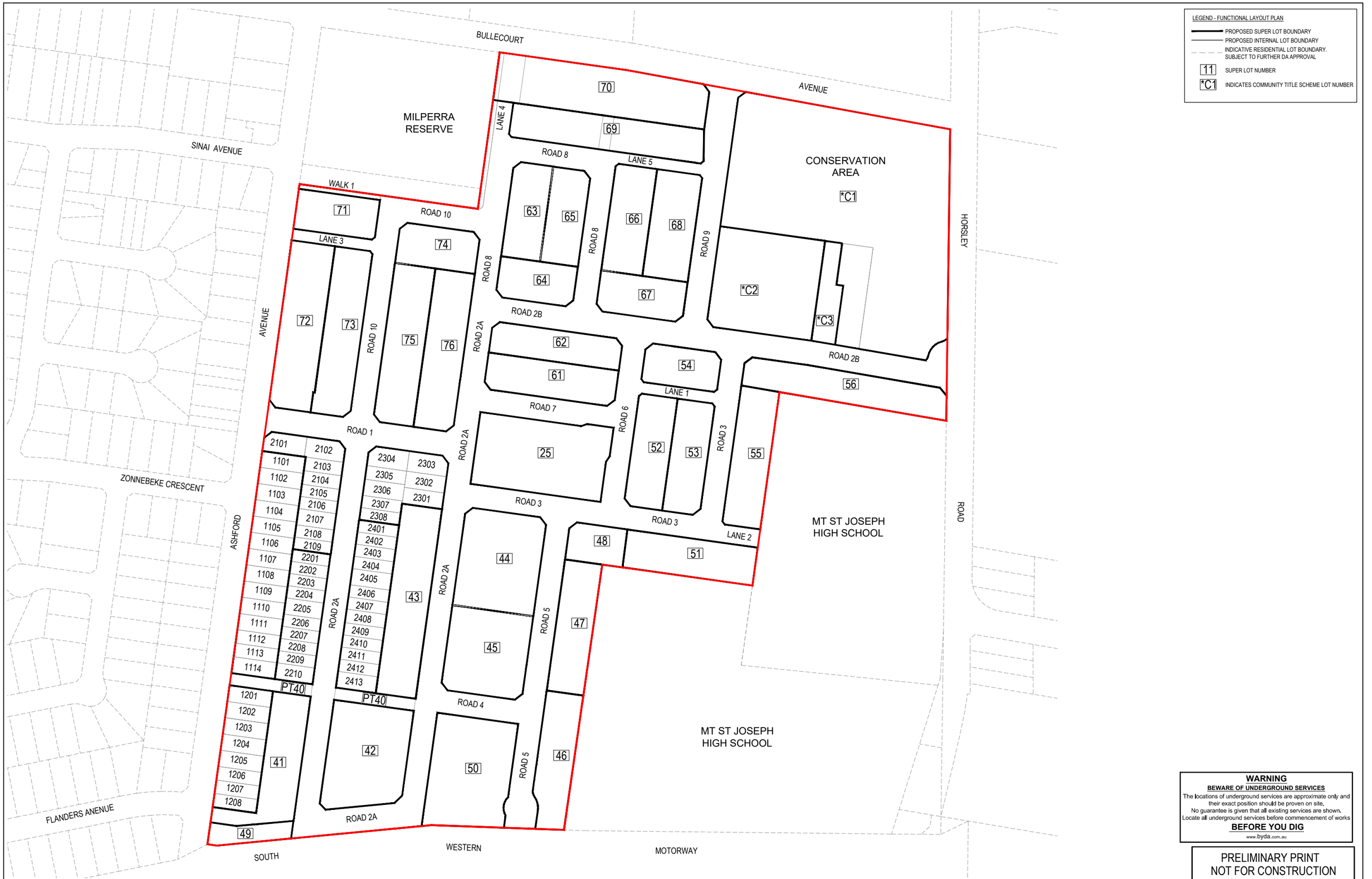
Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2 & 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | DEMOLITION PLAN<br>SHEET 6 OF 6 |

Sheet 16 of 162
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 036 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-030-DEM.dwg




LEGEND - FUNCTIONAL LAYOUT PLAN

- PROPOSED SUPER LOT BOUNDARY
- PROPOSED INTERNAL LOT BOUNDARY
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL
- 11 SUPER LOT NUMBER
- *C1 INDICATES COMMUNITY TITLE SCHEME LOT NUMBER

**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 12.5 25 50 75 100
SCALE 1:1250 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: OVERALL LOT LAYOUT PLAN

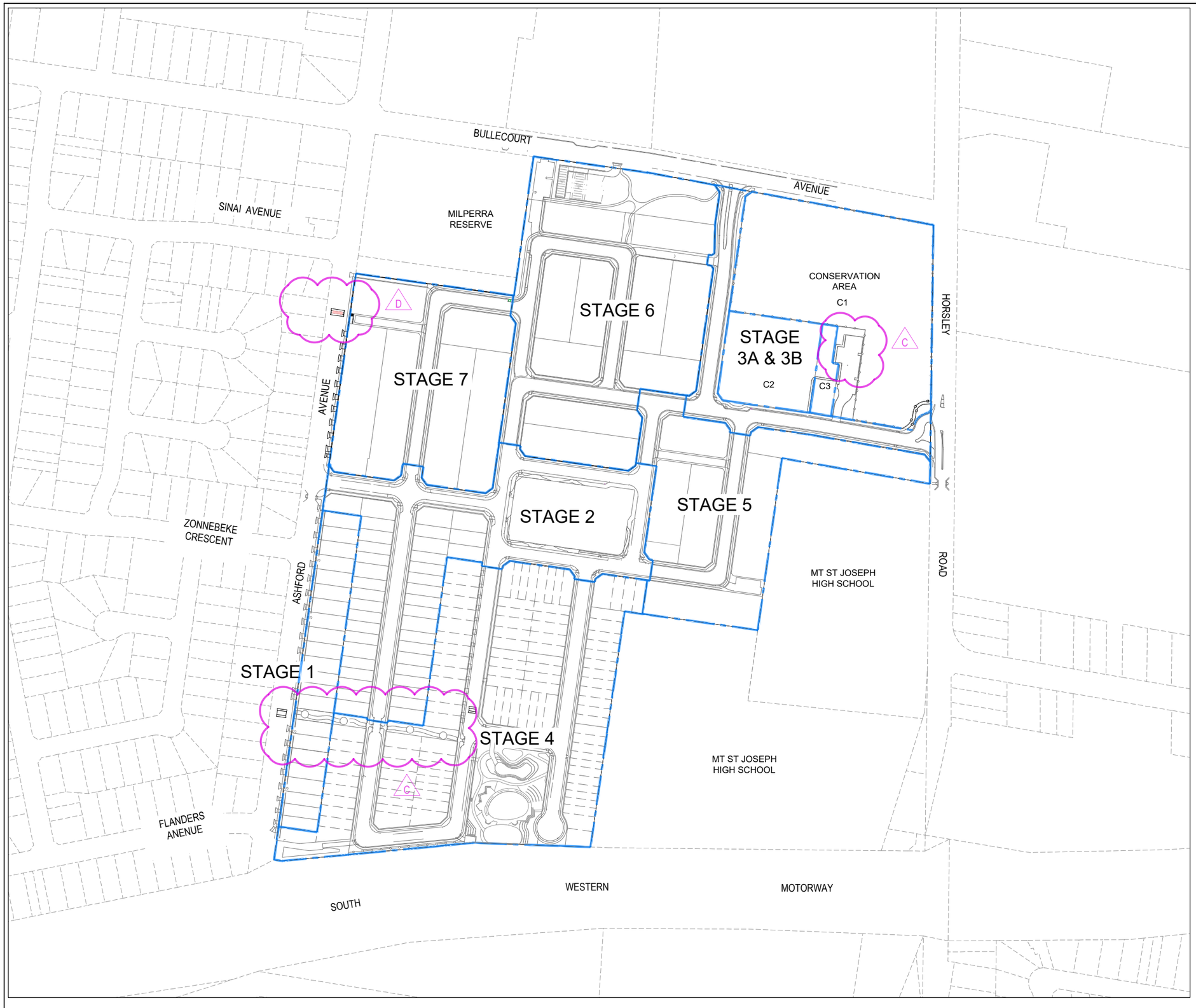
Sheet 17 of 162

Scale 1:1250 @ A1

N

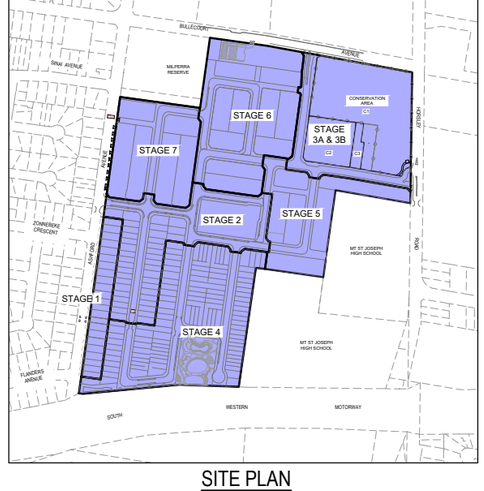
| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 045 | B |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-045-LOT.dwg




LEGEND

- E — ELECTRICITY (UNDERGROUND)
- O — OPTIC FIBRE
- T — TELECOMMUNICATION
- G — GAS
- DW — WATER
- NDW — RECYCLED WATER
- D — STORMWATER DRAIN, PIT & PROPERTY INLET
- D — MELBOURNE WATER DRAIN & PIT
- SWALE DRAIN
- S — SEWER & MAINTENANCE STRUCTURES
- TACTILE PAVERS (INDICATIVE ONLY)
- Ex E — EXISTING ELECTRICITY (UNDERGROUND)
- O/H E — EXISTING ELECTRICITY (OVERHEAD)
- Ex G — EXISTING GAS
- Ex T — EXISTING TELECOMMUNICATION
- Ex DW — EXISTING WATER
- Ex NDW — EXISTING RECYCLED WATER
- Ex D — EXISTING STORMWATER DRAIN
- Ex S — EXISTING SEWER
- H — EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED
- RIDGE LINE
- RETAINING WALL
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL




SITE PLAN

NOT TO SCALE

**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| D | RESPONSE TO REQUEST FOR INFORMATION | 10.06.26 | GN | SG |
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 20 40 80 120 160

SCALE 1:2000 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: OVERALL LAYOUT PLAN

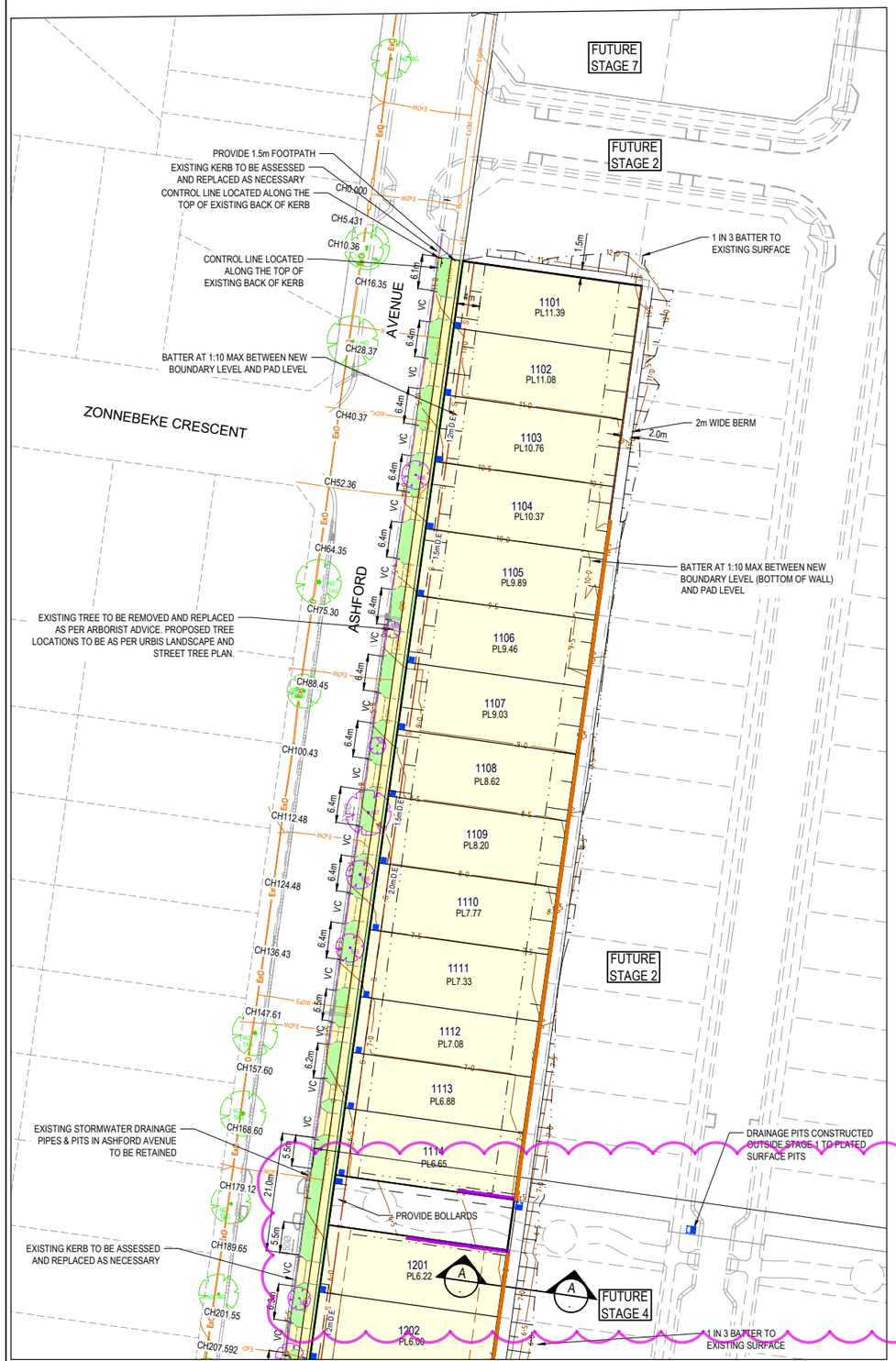
Sheet 18 of 162

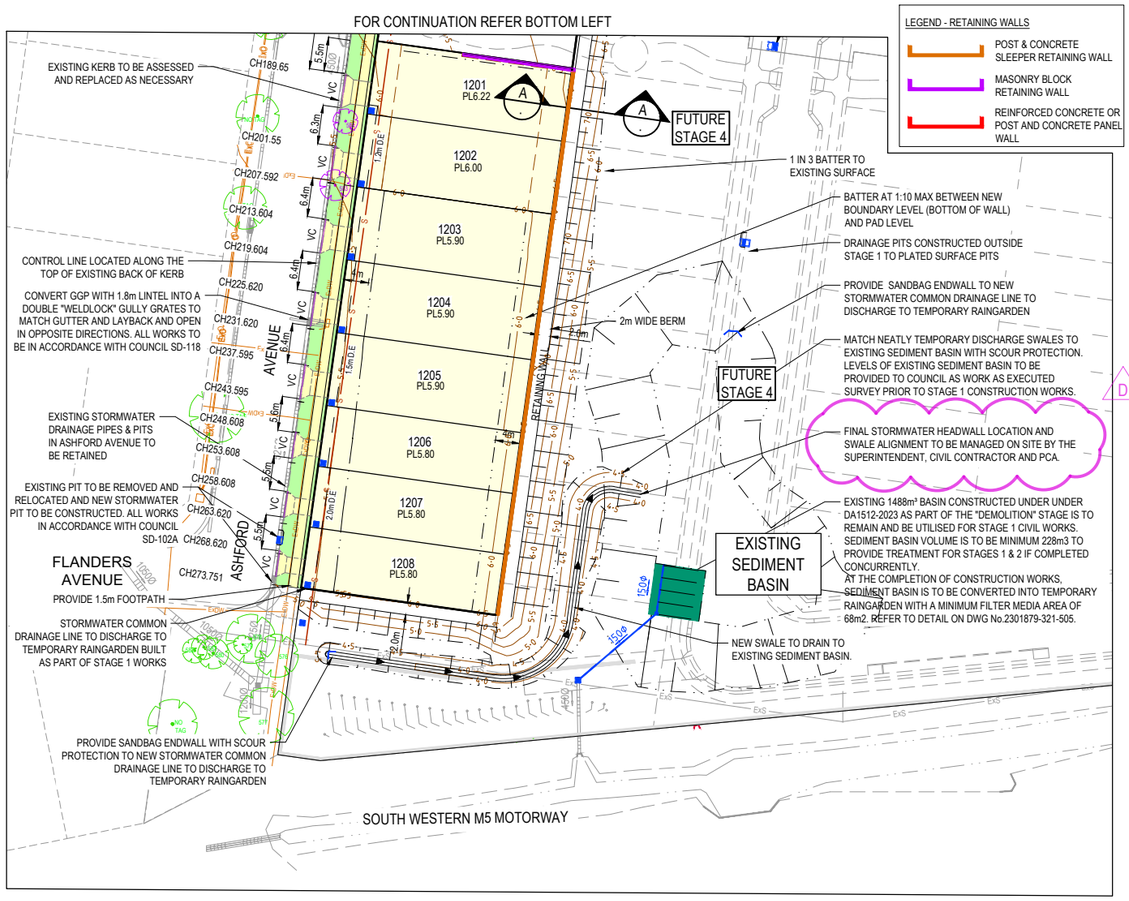
Scale 1:2000 @ A1

N

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 050 | D |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-050-LAY.dwg



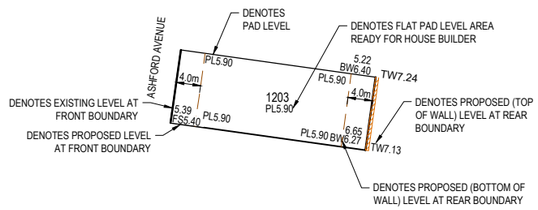




LEGEND - RETAINING WALLS

- POST & CONCRETE SLEEPER RETAINING WALL
- MASONRY BLOCK RETAINING WALL
- REINFORCED CONCRETE OR POST AND CONCRETE PANEL WALL

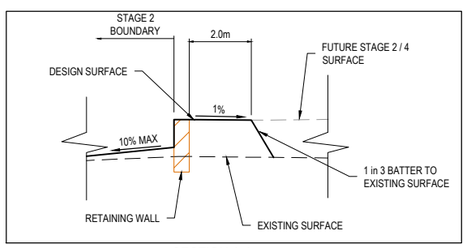
LEGEND - LAYOUT PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- INDICATIVE SEWER ALIGNMENT
- HOUSE DRAIN
- TACTILE PAVERS (INDICATIVE ONLY)
- ELECTRICITY (UNDERGROUND)
- ELECTRICITY (OVERHEAD)
- OPTIC FIBRE
- TELECOMMUNICATIONS
- GAS
- WATER
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING STORMWATER DRAIN
- EXISTING SEWER
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- 141.34 EXISTING SURFACE LEVEL
- FS140.35 FINISHED BUILDING LINE LEVEL
- FR157.40 FINISHED RIDGE LINE LEVEL
- TW159.30 TOP OF RETAINING WALL
- BW159.30 BOTTOM OF RETAINING WALL
- PL11.08 PAD LEVEL
- RIDGE LINE
- RETAINING WALL
- OVERLAND FLOW
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED AND REPLACED AS PER ARBORIST ADVICE DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS
- EXISTING TREE
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- FUTURE DRIVEWAY
- VC — NEW LAYBACK TO BE CUT IN TO EXISTING KERB FOR FUTURE DRIVEWAY. ALL NEW DRIVEWAYS TO BE 4m WIDE WITH EXCEPTION TO LOTS 1012 & 1013. LOTS 1012 & 1013 DRIVEWAYS TO BE 3m WIDE.
- RAINGARDEN
- SUBJECT AREA OF WORKS
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL




LOT LEVEL LEGEND

NOT TO SCALE




SECTION A-A
TYPICAL REAR LOTS INTERFACE

NOT TO SCALE




SITE PLAN

NOT TO SCALE

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| D | UPDATED RESPONSE TO SUBMISSIONS | 24.03.26 | GN | SG |
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

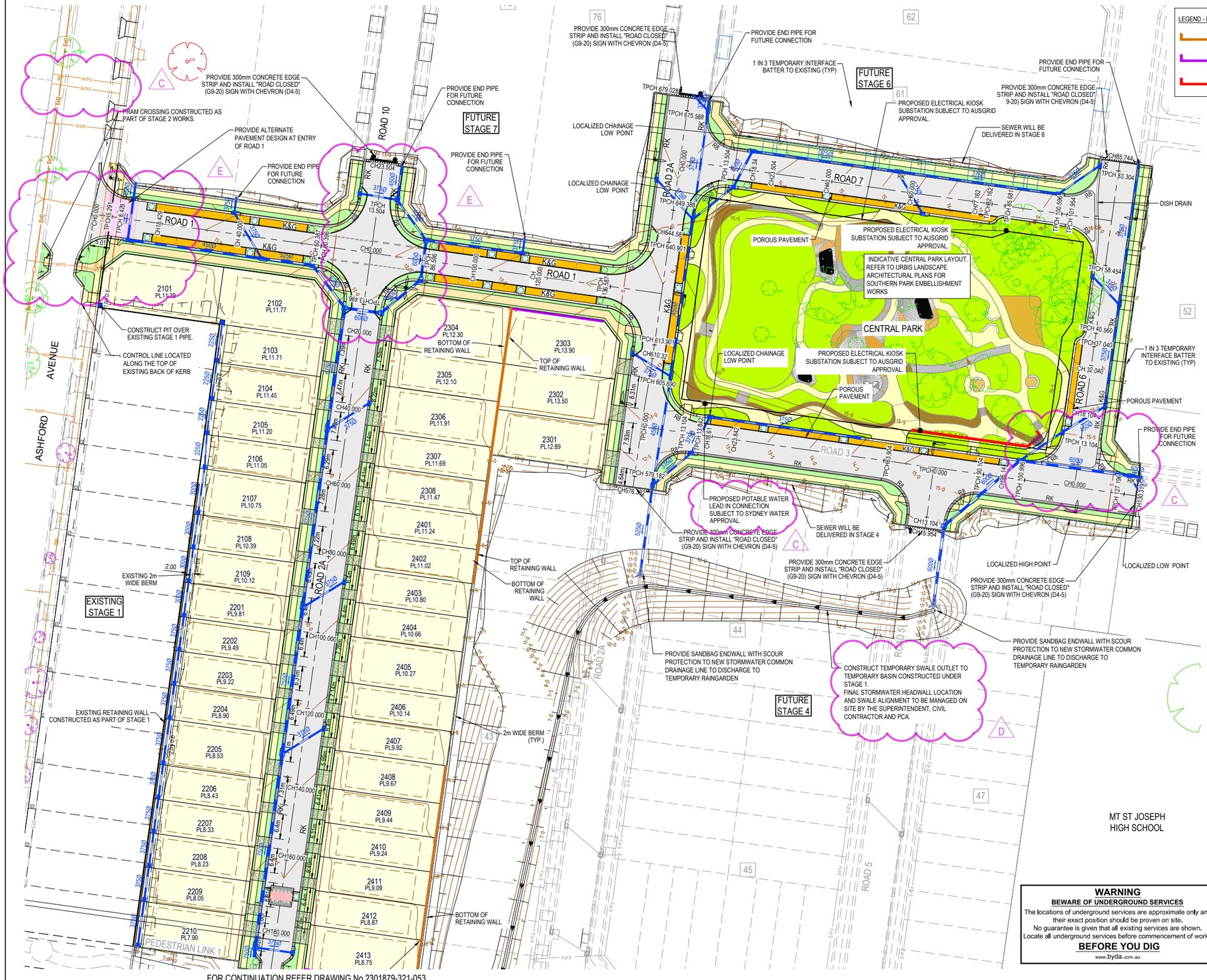
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: LAYOUT PLAN
STAGE 1

Sheet 19 of 162
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 051 | D |

C:\12DWS\data\MELSQL01\Eng - 321_357\Drawings\2301879-321-051-LAY.dwg




LEGEND - RETAINING WALLS

- POST & CONCRETE SLEEPER RETAINING WALL
- MASONRY BLOCK RETAINING WALL
- REINFORCED CONCRETE OR POST AND CONCRETE PANEL WALL

LEGEND - LAYOUT PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- INDICATIVE SEWER ALIGNMENT
- HOUSE DRAIN
- TACTILE PAVERS (INDICATIVE ONLY)
- ELECTRICITY (UNDERGROUND)
- ELECTRICITY (OVERHEAD)
- OPTIC FIBRE
- TELECOMMUNICATIONS
- GAS
- WATER
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING STORMWATER DRAIN
- EXISTING SEWER
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- 141.34 EXISTING SURFACE LEVEL
- FS140.35 FINISHED BUILDING LINE LEVEL
- FR157.40 FINISHED RIDGE LINE LEVEL
- TW159.30 TOP OF RETAINING WALL
- BW159.30 BOTTOM OF RETAINING WALL
- PL11.08 PAD LEVEL
- RIDGE LINE
- RETAINING WALL
- OVERLAND FLOW
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED AND REPLACED AS PER ARBORIST ADVICE DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS
- EXISTING TREE
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- FUTURE DRIVEWAY
- VC — NEW LAYBACK TO BE CUT IN TO EXISTING KERB FOR FUTURE DRIVEWAY. ALL NEW DRIVEWAYS TO BE 4m WIDE WITH EXCEPTION TO LOTS 1012 & 1013. LOTS 1012 & 1013 DRIVEWAYS TO BE 3m WIDE.
- RAINGARDEN
- SUBJECT AREA OF WORKS
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL




SITE PLAN
NOT TO SCALE

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| E | UPDATED RESPONSE TO SUBMISSIONS | 05.05.26 | GN | SG |
| D | UPDATED RESPONSE TO SUBMISSIONS | 24.03.26 | GN | SG |
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

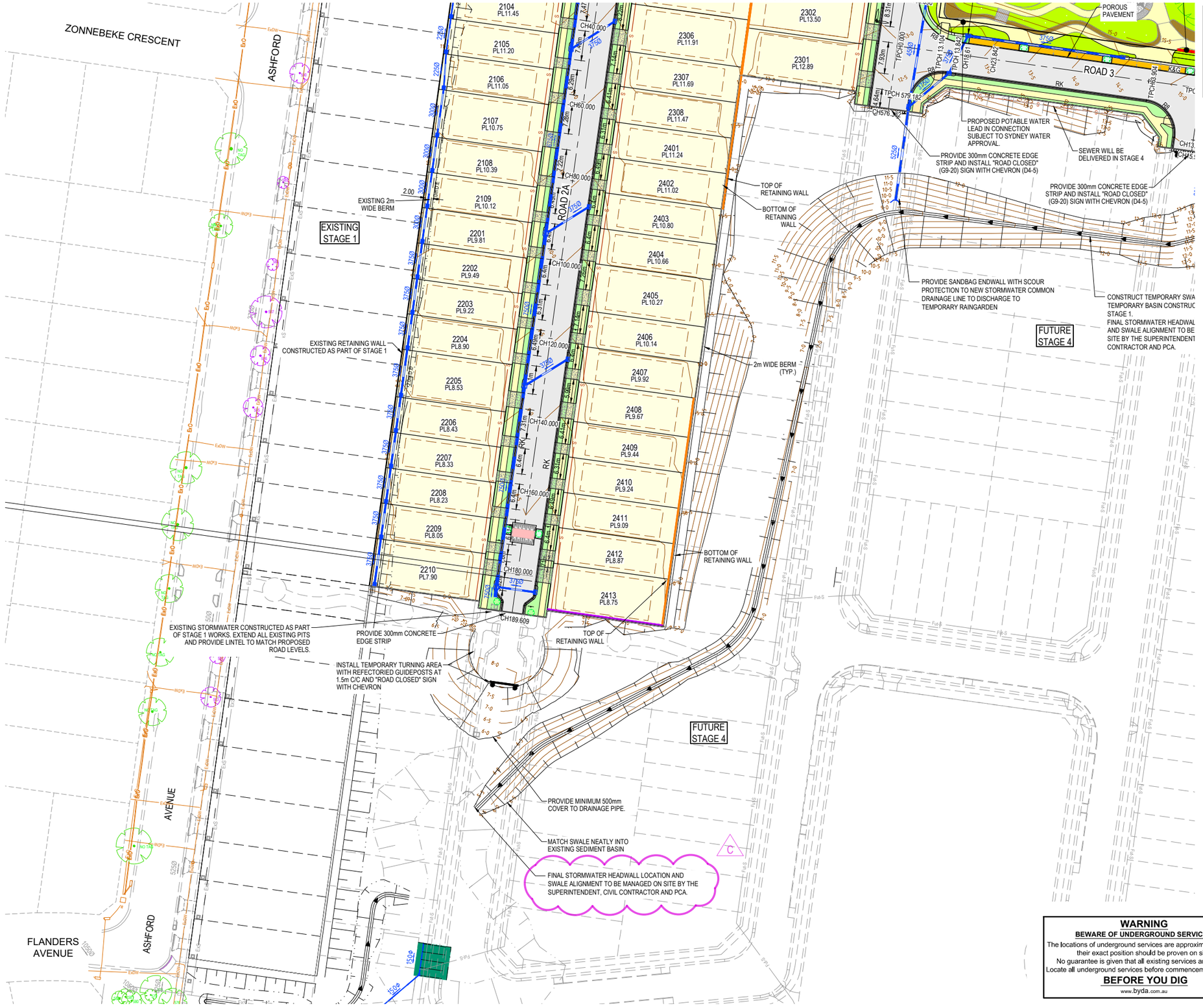
Drawing Title: LAYOUT PLAN
STAGE 2
SHEET 1 OF 2

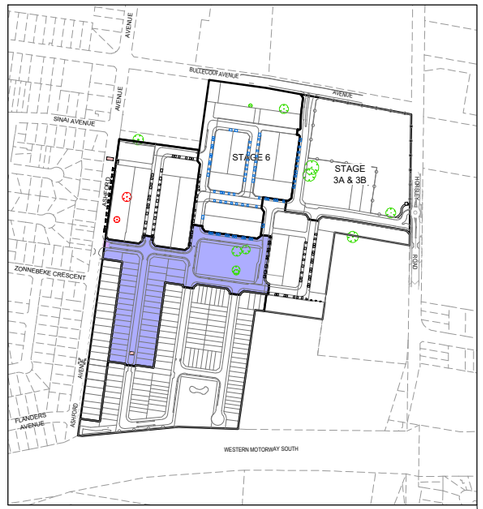
Sheet 20 of 162
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No. | Rev |
|---|---|---|---|
| 2301879 | 321 | 052 | E |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-052-LAY.dwg

FOR CONTINUATION REFER DRAWING No.2301879-321-052




SITE PLAN
NOT TO SCALE

LEGEND - RETAINING WALLS

- POST & CONCRETE SLEEPER RETAINING WALL
- MASONRY BLOCK RETAINING WALL
- REINFORCED CONCRETE OR POST AND CONCRETE PANEL WALL

LEGEND - LAYOUT PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- INDICATIVE SEWER ALIGNMENT
- HOUSE DRAIN
- TACTILE PAVERS (INDICATIVE ONLY)
- ELECTRICITY (UNDERGROUND)
- ELECTRICITY (OVERHEAD)
- OPTIC FIBRE
- TELECOMMUNICATIONS
- GAS
- WATER
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING STORMWATER DRAIN
- EXISTING SEWER
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- EXISTING SURFACE LEVEL
- FINISHED BUILDING LINE LEVEL
- FINISHED RIDGE LINE LEVEL
- TOP OF RETAINING WALL
- BOTTOM OF RETAINING WALL
- PAD LEVEL
- RIDGE LINE
- RETAINING WALL
- OVERLAND FLOW
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED AND REPLACED AS PER ARBORIST ADVICE DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS
- EXISTING TREE
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- FUTURE DRIVEWAY
- NEW LAYBACK TO BE CUT IN TO EXISTING KERB FOR FUTURE DRIVEWAY. ALL NEW DRIVEWAYS TO BE 4m WIDE WITH EXCEPTION TO LOTS 1012 & 1013. LOTS 1012 & 1013 DRIVEWAYS TO BE 3m WIDE.
- RAINGARDEN
- SUBJECT AREA OF WORKS
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | UPDATED RESPONSE TO SUBMISSIONS | 24.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: LAYOUT PLAN
STAGE 2
SHEET 2 OF 2

Sheet 21 of 162
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 053 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-052-LAY.dwg

NORTHERN PARK (FUTURE)

BULLECOURT AVENUE

PROVIDE ALTERNATE PAVEMENT DESIGN AT ENTRY OF ROAD 9

ROAD 9

FUTURE STAGE 6

SANDBAG HEADWALL

LANE 5

CONSTRUCT HEAVY DUTY VFC TO BE IN ACCORDANCE WITH COUNCIL STANDARDS S-008

CONSERVATION AREA

HIGH POINT

FUTURE STAGE 6

PROPOSED FENCING ALONG THE C2 CONSERVATION BOUNDARY

MAXIMUM 1 IN 3 TEMPORARY INTERFACE BATTER TO EXISTING (TYP).

ELECTRICAL SUBSTATION. LOCATION SUBJECT TO FINAL APPROVAL

CHILDCARE STORMWATER DISCHARGE POINT INTO COUNCIL' DRAINAGE SYSTEM.

TEMPORARY SEDIMENT BASIN TO BE CONVERTED TO A TEMPORARY RAINGARDEN ONCE STAGE 3A WORKS IS COMPLETED.

LOCALIZED LOW POINT

CHILDCARE CENTRE

EXISTING FOOTPATH TO MATCH INTO PROPOSED ROAD 2 SHARED PATH WITH NO STEP. EXISTING FOOTPATH LEVELS TO BE CONFIRMED.

LOCALIZED LOW POINT

APPROX. RL21.61

PROPOSED FOOTPATH

RL21.34

RL22.1

CONSTRUCTION OF VFC TO BE IN ACCORDANCE WITH COUNCIL'S STANDARD DRAWING SD-008

ROAD 2B

FUTURE STAGE 5

MAXIMUM 1 IN 3 TEMPORARY INTERFACE BATTER TO EXISTING (TYP).

HIGH POINT

PROVIDE ALTERNATE PAVEMENT DESIGN AT ENTRY OF ROAD 2B

POROUS PAVEMENT

POROUS PAVEMENT TO BE COLLECTED IN SUBSOIL DRAINAGE AND CONVEYED TO DRAINAGE PITS

HIGH POINT

HORSLEY ROAD

PROPOSED BOARDWALK TO BE LOCATED WITHIN C2 AREA. CYCLIST BARRIER FENCING TO BE PROVIDED AND DETAILED AS PART OF DETAILED DESIGN.

EXISTING SPLITTER ISLAND TO BE MODIFIED TO INCLUDE A 3m WIDE PEDESTRIAN ACCESS AND A MIN. 2m WIDE HOLDING AREA

EXISTING CONCRETE BARRIER TO BE REMOVED

DISH DRAIN

PROVIDE LANDSCAPING PROVISIONS TO DETER PEDESTRIAN ACCESS. REFER TO LANDSCAPE PLANS.

CONNECT NEW MEDIAN TO EXISTING SPLITTER ISLAND AND MATCH TO EXISTING SURFACE.

EXISTING SERVICES AND PITS TO BE DEEPENED OR REMOVED TO SUIT INTRODUCTION OF NEW INTERSECTION DESIGN

DISH DRAIN

NEIGHBOURING DRIVEWAY TO BE REMOVED UNDER SSD-51147710

PROVIDE 300mm CONCRETE EDGE STRIP AND INSTALL "ROAD CLOSED" (G9-20) SIGN WITH CHEVRON (D4-5)

MAXIMUM 1 IN 3 TEMPORARY INTERFACE BATTER TO EXISTING (TYP).

PROVIDE 300mm CONCRETE EDGE STRIP AND INSTALL "ROAD CLOSED" (G9-20) SIGN WITH CHEVRON (D4-5)

FOR CONTINUATION REFER DRAWING No.2301879-321-055

**LEGEND - RETAINING WALLS**

- POST & CONCRETE SLEEPER RETAINING WALL
- MASONRY BLOCK RETAINING WALL
- REINFORCED CONCRETE OR POST AND CONCRETE PANEL WALL

**LEGEND - LAYOUT PLAN**

- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- INDICATIVE SEWER ALIGNMENT
- HOUSE DRAIN
- TACTILE PAVERS (INDICATIVE ONLY)
- ELECTRICITY (UNDERGROUND)
- ELECTRICITY (OVERHEAD)
- OPTIC FIBRE
- TELECOMMUNICATIONS
- GAS
- WATER
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING STORMWATER DRAIN
- EXISTING SEWER
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- EXISTING SURFACE LEVEL
- FINISHED BUILDING LINE LEVEL
- FINISHED RIDGE LINE LEVEL
- TOP OF RETAINING WALL
- BOTTOM OF RETAINING WALL
- PAD LEVEL
- RIDGE LINE
- RETAINING WALL
- OVERLAND FLOW
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED AND REPLACED AS PER ARBORIST ADVICE DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS
- EXISTING TREE
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- FUTURE DRIVEWAY
- NEW LAYBACK TO BE CUT IN TO EXISTING KERB FOR FUTURE DRIVEWAY. ALL NEW DRIVEWAYS TO BE 4m WIDE WITH EXCEPTION TO LOTS 1012 & 1013. LOTS 1012 & 1013 DRIVEWAYS TO BE 3m WIDE.
- RAINGARDEN
- SUBJECT AREA OF WORKS
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL




**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

## SITE PLAN

NOT TO SCALE

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| E | UPDATED RESPONSE TO SUBMISSIONS | 05.05.26 | GN | SG |
| D | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| C | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| B | CARPARK AMENDED | 23.10.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |
| F | RESPONSE TO REQUEST FOR INFORMATION | 10.06.26 | GN | SG |

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: LAYOUT PLAN STAGE 3A SHEET 1 OF 2

Sheet 22 of 162

Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 054 | F |

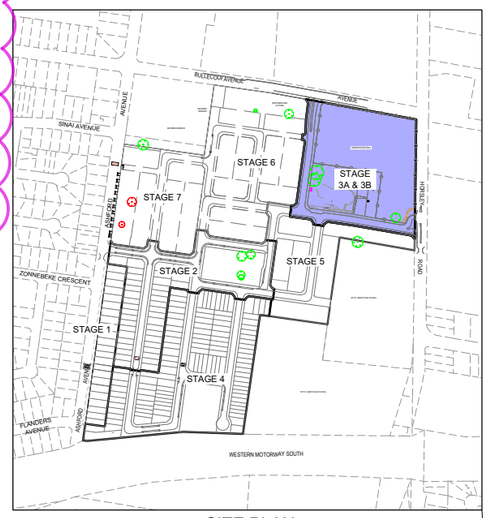
C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-053-LAY.dwg

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

LEGEND - RETAINING WALLS
- POST & CONCRETE SLEEPER RETAINING WALL
- MASONRY BLOCK RETAINING WALL
- REINFORCED CONCRETE OR POST AND CONCRETE PANEL WALL

LEGEND - LAYOUT PLAN
- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- INDICATIVE SEWER ALIGNMENT
- HOUSE DRAIN
- TACTILE PAVERS (INDICATIVE ONLY)
- ELECTRICITY (UNDERGROUND)
- ELECTRICITY (OVERHEAD)
- OPTIC FIBRE
- TELECOMMUNICATIONS
- GAS
- WATER
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING STORMWATER DRAIN
- EXISTING SEWER
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- EXISTING SURFACE LEVEL
- FINISHED BUILDING LINE LEVEL
- FINISHED RIDGE LINE LEVEL
- TOP OF RETAINING WALL
- BOTTOM OF RETAINING WALL
- PAD LEVEL
- RIDGE LINE
- RETAINING WALL
- OVERLAND FLOW
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED AND REPLACED AS PER ARBORIST ADVICE DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS
- EXISTING TREE
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- FUTURE DRIVEWAY
- VC — NEW LAYBACK TO BE CUT IN TO EXISTING KERB FOR FUTURE DRIVEWAY. ALL NEW DRIVEWAYS TO BE 4m WIDE WITH EXCEPTION TO LOTS 1012 & 1013. LOTS 1012 & 1013 DRIVEWAYS TO BE 3m WIDE.
- RAINGARDEN
- SUBJECT AREA OF WORKS
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

MILPERRA RESERVE
NORTHERN PARK (FUTURE)
BULLECOURT AVENUE
CONSERVATION AREA
CHILDCARE CENTRE
FUTURE STAGE 5
FUTURE STAGE 6
FUTURE STAGE 7
LANE 4
LANE 5
ROAD 8
ROAD 9
ROAD 2A
ROAD 2B
69
70
63
65
66
68
62
61
PROVIDE ALTERNATE PAVEMENT DESIGN AT ENTRY OF ROAD 9
CONSTRUCT HEAVY DUTY VFC TO BE IN ACCORDANCE WITH COUNCIL STANDARDS S-008
SANDBAG HEADWALL
TEMPORARY TAIL OUT SWALE
HIGH POINT
SEDIMENT BASIN
SOLID 150mm DIA. UPVC PIPE
SOLID 150mm DIA. UPVC PIPE GRADED AT 1% TO DRAIN TO EXISTING SURFACE LEVEL
DISCHARGE CONTROL PIT
PERMANENT DRAINAGE PIT
TEMPORARY SEDIMENT BASIN TO BE CONVERTED TO A TEMPORARY RAINGARDEN ONCE STAGE 3A WORKS IS COMPLETED.
PERMANENT DRAINAGE PIT AND PIPES CONSTRUCTED OUTSIDE OF STAGE 3 TO HAVE LINTELS PLATED OFF.
MAXIMUM 1 IN 3 TEMPORARY INTERFACE BATTER TO EXISTING (TYP).
CHILDCARE STORMWATER DISCHARGE POINT INTO COUNCIL' DRAINAGE SYSTEM.
LOCALIZED LOW POINT
PROVIDE 300mm CONCRETE EDGE STRIP AND INSTALL "ROAD CLOSED" (G9-20) SIGN WITH CHEVRON (D4-5)
ELECTRICAL SUBSTATION. LOCATION SUBJECT TO FINAL APPROVAL
EXISTING FOOTPATH TO MATCH INTO PROPOSED ROAD 2 SHARED PATH WITH NO STEP. EXISTING FOOTPATH LEVELS TO BE CONFIRMED.
PROPOSED FOOTPATH
PROPOSED FENCING ALONG THE C2 CONSERVATION BOUNDARY
FOR CONTINUATION REFER DRAWING No.2301879-321-054




SITE PLAN
NOT TO SCALE

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| E | UPDATED RESPONSE TO SUBMISSIONS | 05.05.26 | GN | SG |
| D | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| C | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| B | CARPARK AMENDED | 23.10.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |
| F | RESPONSE TO REQUEST FOR INFORMATION | 10.06.26 | GN | SG |

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

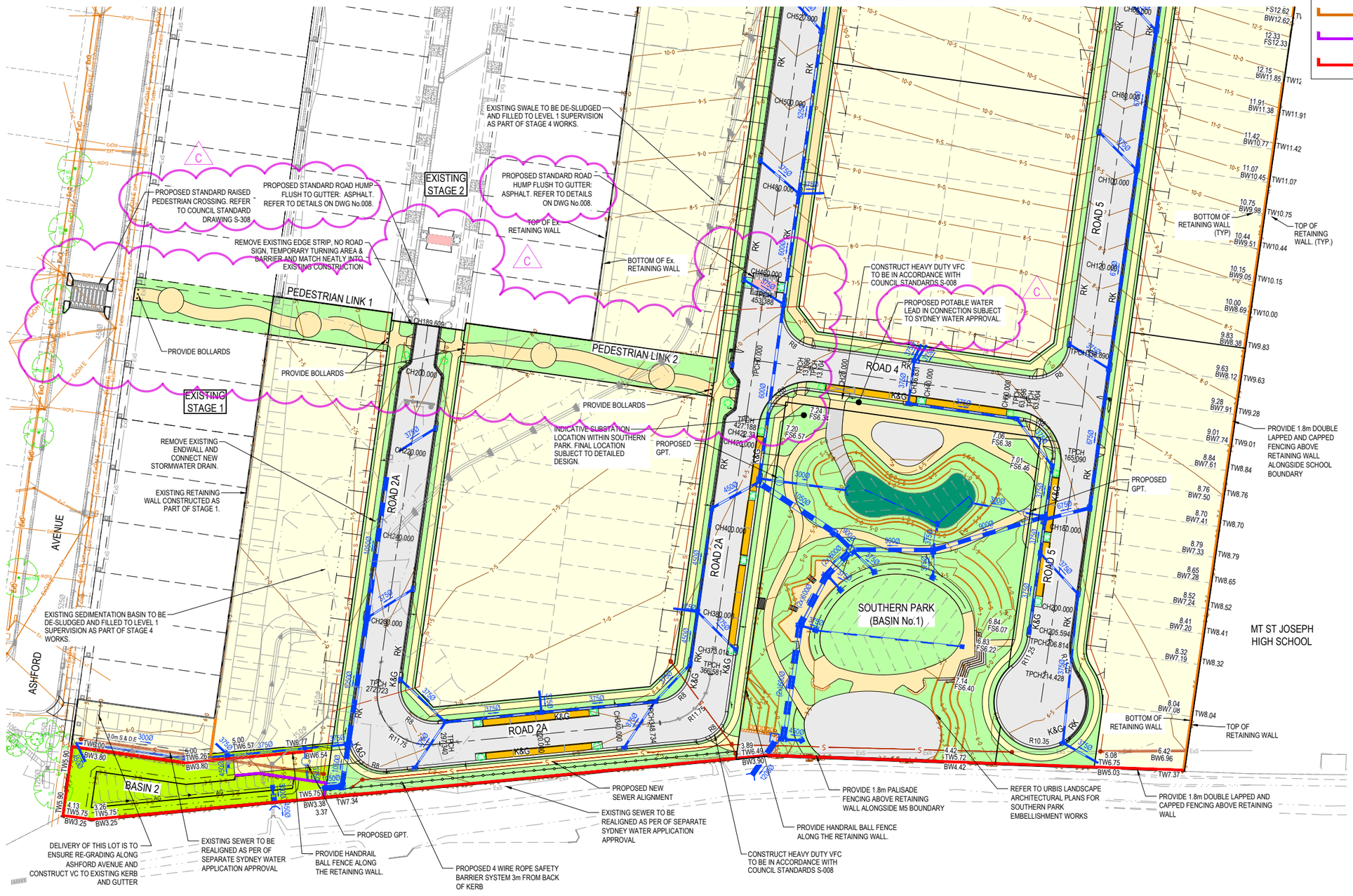
Drawing Title: LAYOUT PLAN
STAGE 3A
SHEET 2 OF 2

Sheet 23 of 162
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 055 | F |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-053-LAY.dwg

FOR CONTINUATION REFER DRAWING No.2301879-321-057




LEGEND - RETAINING WALLS

- POST & CONCRETE SLEEPER RETAINING WALL
- MASONRY BLOCK RETAINING WALL
- REINFORCED CONCRETE OR POST AND CONCRETE PANEL WALL

LEGEND - LAYOUT PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- GPT
- SWALE DRAIN
- INDICATIVE SEWER ALIGNMENT
- HOUSE DRAIN
- TACTILE PAVERS (INDICATIVE ONLY)
- ELECTRICITY (UNDERGROUND)
- ELECTRICITY (OVERHEAD)
- OPTIC FIBRE
- TELECOMMUNICATIONS
- GAS
- WATER
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING STORMWATER DRAIN
- EXISTING SEWER
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- EXISTING SURFACE LEVEL
- FINISHED BUILDING LINE LEVEL
- FINISHED RIDGE LINE LEVEL
- TOP OF RETAINING WALL
- BOTTOM OF RETAINING WALL
- PAD LEVEL
- RIDGE LINE
- RETAINING WALL
- OVERLAND FLOW
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED AND REPLACED AS PER ARBORIST ADVICE DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS
- EXISTING TREE
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- FUTURE DRIVEWAY
- VC — NEW LAYBACK TO BE CUT IN TO EXISTING KERB FOR FUTURE DRIVEWAY. ALL NEW DRIVEWAYS TO BE 4m WIDE WITH EXCEPTION TO LOTS 1012 & 1013. LOTS 1012 & 1013 DRIVEWAYS TO BE 3m WIDE.
- RAINGARDEN
- SUBJECT AREA OF WORKS
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL




SITE PLAN
NOT TO SCALE

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: LAYOUT PLAN STAGE 4 SHEET 1 OF 2

Sheet 24 of 162
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 056 | C |

C:\12DWS\data\MELSQL01\Eng - 321_357\Drawings\2301879-321-054-LAY.dwg




FOR CONTINUATION REFER DRAWING No.2301879-321-056

LEGEND - RETAINING WALLS

- POST & CONCRETE SLEEPER RETAINING WALL
- MASONRY BLOCK RETAINING WALL
- REINFORCED CONCRETE OR POST AND CONCRETE PANEL WALL

LEGEND - LAYOUT PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- GPT
- SWALE DRAIN
- INDICATIVE SEWER ALIGNMENT
- HOUSE DRAIN
- TACTILE PAVERS (INDICATIVE ONLY)
- ELECTRICITY (UNDERGROUND)
- ELECTRICITY (OVERHEAD)
- OPTIC FIBRE
- TELECOMMUNICATIONS
- GAS
- WATER
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING STORMWATER DRAIN
- EXISTING SEWER
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- EXISTING SURFACE LEVEL
- FINISHED BUILDING LINE LEVEL
- FINISHED RIDGE LINE LEVEL
- TOP OF RETAINING WALL
- BOTTOM OF RETAINING WALL
- PAD LEVEL
- RIDGE LINE
- RETAINING WALL
- OVERLAND FLOW
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED AND REPLACED AS PER ARBORIST ADVICE DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS
- EXISTING TREE
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- FUTURE DRIVEWAY
- VC — NEW LAYBACK TO BE CUT IN TO EXISTING KERB FOR FUTURE DRIVEWAY. ALL NEW DRIVEWAYS TO BE 4m WIDE WITH EXCEPTION TO LOTS 1012 & 1013. LOTS 1012 & 1013 DRIVEWAYS TO BE 3m WIDE.
- RAINGARDEN
- SUBJECT AREA OF WORKS
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL




SITE PLAN
NOT TO SCALE

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

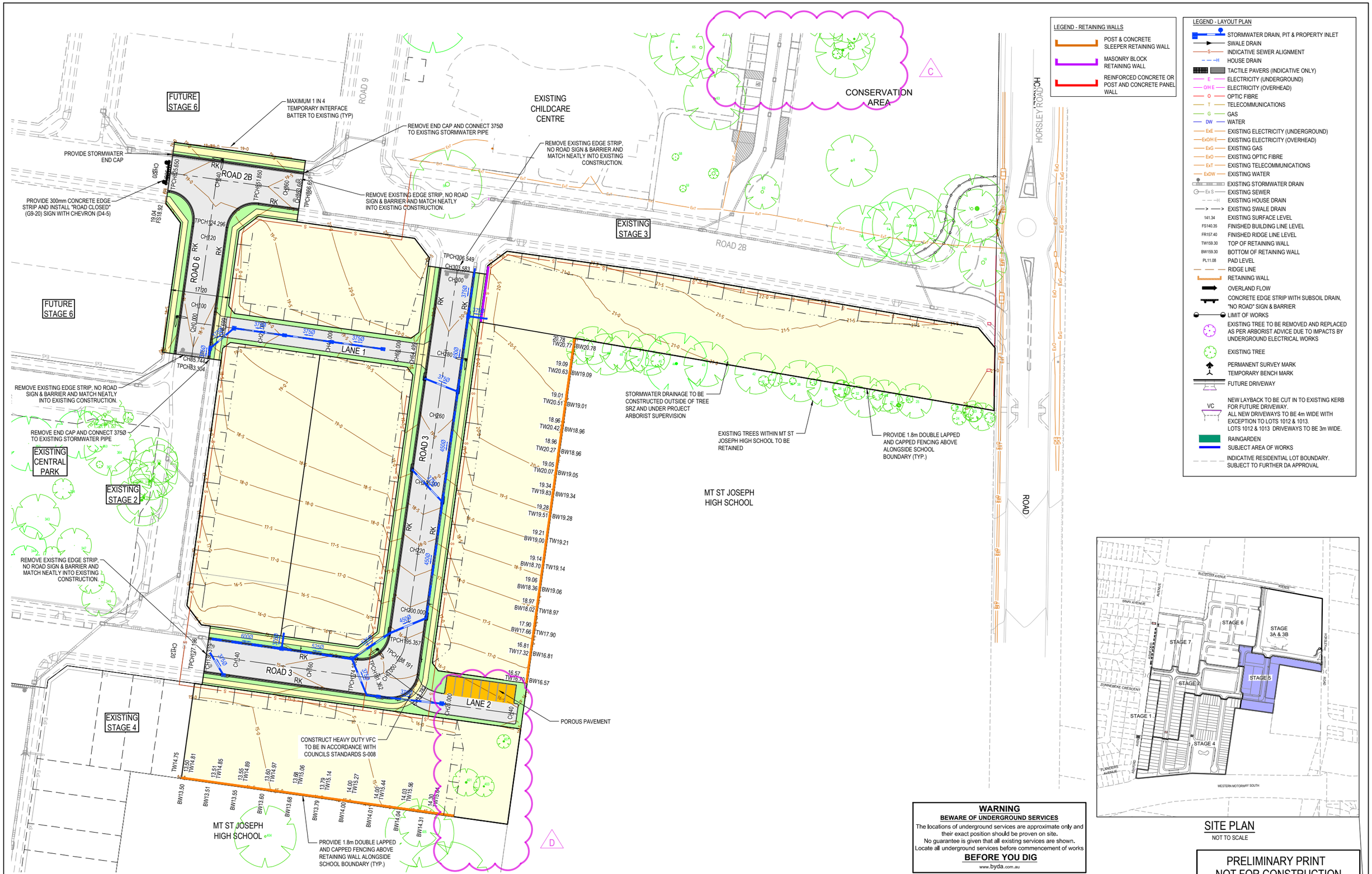
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: LAYOUT PLAN
STAGE 4
SHEET 2 OF 2

Sheet 25 of 162
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 057 | C |

C:\12DWS\data\MELSQL01\Eng - 321_357\Drawings\2301879-321-054-LAY.dwg




LEGEND - RETAINING WALLS

- POST & CONCRETE SLEEPER RETAINING WALL
- MASONRY BLOCK RETAINING WALL
- REINFORCED CONCRETE OR POST AND CONCRETE PANEL WALL

LEGEND - LAYOUT PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- INDICATIVE SEWER ALIGNMENT
- HOUSE DRAIN
- TACTILE PAVERS (INDICATIVE ONLY)
- ELECTRICITY (UNDERGROUND)
- ELECTRICITY (OVERHEAD)
- OPTIC FIBRE
- TELECOMMUNICATIONS
- GAS
- WATER
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING STORMWATER DRAIN
- EXISTING SEWER
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- EXISTING SURFACE LEVEL
- FINISHED BUILDING LINE LEVEL
- FINISHED RIDGE LINE LEVEL
- TOP OF RETAINING WALL
- BOTTOM OF RETAINING WALL
- PAD LEVEL
- RIDGE LINE
- RETAINING WALL
- OVERLAND FLOW
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED AND REPLACED AS PER ARBORIST ADVICE DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS
- EXISTING TREE
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- FUTURE DRIVEWAY
- VC — NEW LAYBACK TO BE CUT IN TO EXISTING KERB FOR FUTURE DRIVEWAY. ALL NEW DRIVEWAYS TO BE 4m WIDE WITH EXCEPTION TO LOTS 1012 & 1013. LOTS 1012 & 1013 DRIVEWAYS TO BE 3m WIDE.
- RAINGARDEN
- SUBJECT AREA OF WORKS
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL




SITE PLAN
NOT TO SCALE

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| D | RESPONSE TO REQUEST FOR INFORMATION | 10.06.26 | GN | SG |
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2 & 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | LAYOUT PLAN STAGE 5 |

Sheet 26 of 162
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 058 | D |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-055-LAY.dwg

BULLECOURT AVENUE

PROPOSED GPT

PROVIDE BOLLARDS WITH REMOVABLE CENTRE BOLLARD.

POROUS PAVEMENT

SPLITTER PIT

NORTHERN PARK

PROPOSED POTABLE WATER LEAD IN CONNECTION SUBJECT TO SYDNEY WATER APPROVAL

MILPERRA RESERVE

CONSTRUCT HEAVY DUTY VFC TO BE IN ACCORDANCE WITH COUNCIL STANDARDS S-008

CONNECT STORMWATER TO EXISTING

LANE 4

LANE 5

ROAD 8

ROAD 2B

ROAD 2A

ROAD 10

CONSTRUCT HEAVY DUTY VFC TO BE IN ACCORDANCE WITH COUNCIL STANDARDS S-008

CONSERVATION AREA

EXISTING SWALE TO BE DE-SLUDGED AND FILLED TO LEVEL 1 SUPERVISION AS PART OF STAGE 6 WORKS.

LOCALIZED LOW POINT

PROVIDE 300mm CONCRETE EDGE STRIP AND INSTALL "ROAD CLOSED" (G9-20) SIGN WITH CHEVRON (D4-5)

EXISTING 150Ø TEMPORARY OUTLET PIPE & HEADWALL FROM EXISTING TEMP. BASIN TO BE REMOVED AS PART OF STAGE 6 WORKS.

EXISTING SEDIMENT BASIN TO BE DE-SLUDGED AND FILLED TO LEVEL 1 SUPERVISION AS PART OF STAGE 6 WORKS.

REMOVE EXISTING 675Ø TEMPORARY PIPE & HEADWALL AND CONNECT NEW PIPE TO EXISTING PIT.

EXISTING STAGE 3A & 3B

EXISTING CHILDCARE CENTRE

DISH DRAIN

CONNECT STORMWATER TO EXISTING

FUTURE STAGE 7

REMOVE EXISTING EDGE STRIP, NO ROAD SIGN & BARRIER AND MATCH NEATLY INTO EXISTING CONSTRUCTION.

EXISTING STAGE 5

DISH DRAIN

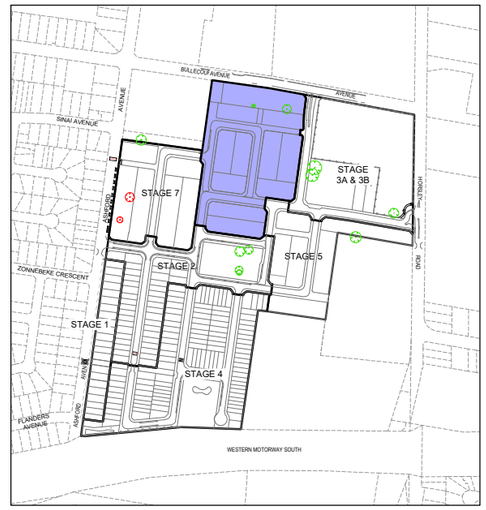
FOR CONTINUATION REFER DRAWING No.2301879-321-060

LEGEND - RETAINING WALLS

- POST & CONCRETE SLEEPER RETAINING WALL
- MASONRY BLOCK RETAINING WALL
- REINFORCED CONCRETE OR POST AND CONCRETE PANEL WALL

LEGEND - LAYOUT PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- INDICATIVE SEWER ALIGNMENT
- HOUSE DRAIN
- TACTILE PAVERS (INDICATIVE ONLY)
- ELECTRICITY (UNDERGROUND)
- ELECTRICITY (OVERHEAD)
- OPTIC FIBRE
- TELECOMMUNICATIONS
- GAS
- WATER
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING STORMWATER DRAIN
- EXISTING SEWER
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- EXISTING SURFACE LEVEL
- FINISHED BUILDING LINE LEVEL
- FINISHED RIDGE LINE LEVEL
- TOP OF RETAINING WALL
- BOTTOM OF RETAINING WALL
- PAD LEVEL
- RIDGE LINE
- RETAINING WALL
- OVERLAND FLOW
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED AND REPLACED AS PER ARBORIST ADVICE DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS
- EXISTING TREE
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- FUTURE DRIVEWAY
- VC — NEW LAYBACK TO BE CUT IN TO EXISTING KERB FOR FUTURE DRIVEWAY. ALL NEW DRIVEWAYS TO BE 4m WIDE WITH EXCEPTION TO LOTS 1012 & 1013. LOTS 1012 & 1013 DRIVEWAYS TO BE 3m WIDE.
- RAINGARDEN
- SUBJECT AREA OF WORKS
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL




SITE PLAN
NOT TO SCALE

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| D | RESPONSE TO REQUEST FOR INFORMATION | 10.06.26 | GN | SG |
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: LAYOUT PLAN STAGE 6 SHEET 1 OF 2

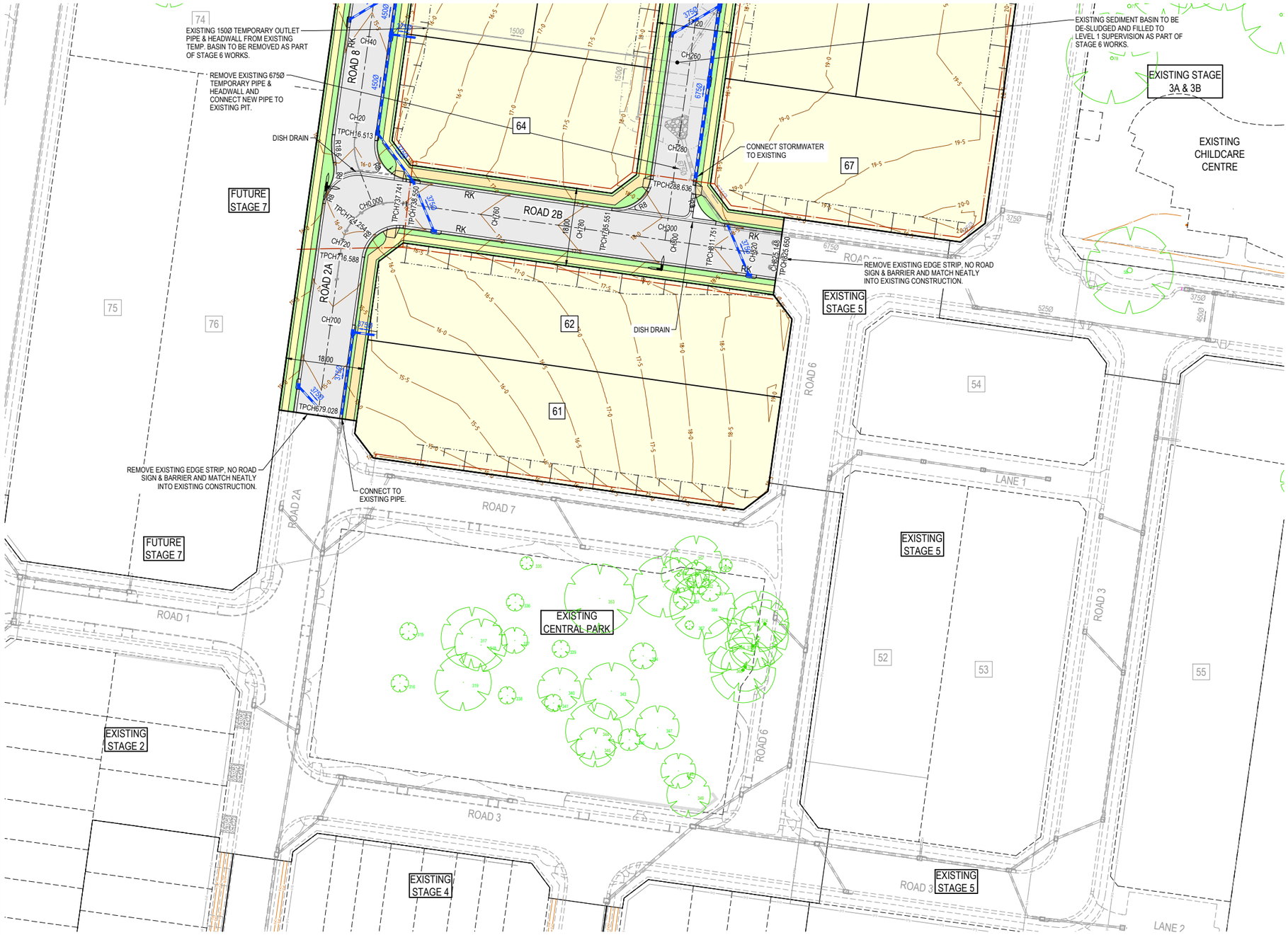
Sheet 27 of 162

Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 059 | D |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-056-LAY.dwg

FOR CONTINUATION REFER DRAWING No.2301879-321-059

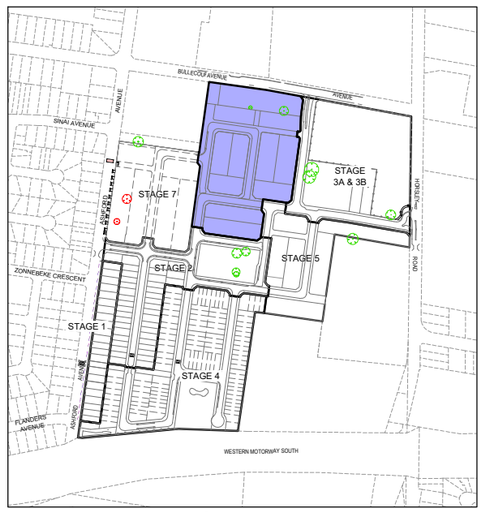



LEGEND - RETAINING WALLS

- POST & CONCRETE SLEEPER RETAINING WALL
- MASONRY BLOCK RETAINING WALL
- REINFORCED CONCRETE OR POST AND CONCRETE PANEL WALL

LEGEND - LAYOUT PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- INDICATIVE SEWER ALIGNMENT
- HOUSE DRAIN
- TACTILE PAVERS (INDICATIVE ONLY)
- ELECTRICITY (UNDERGROUND)
- ELECTRICITY (OVERHEAD)
- OPTIC FIBRE
- TELECOMMUNICATIONS
- GAS
- WATER
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING STORMWATER DRAIN
- EXISTING SEWER
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- 141.34 EXISTING SURFACE LEVEL
- FS140.35 FINISHED BUILDING LINE LEVEL
- FR157.40 FINISHED RIDGE LINE LEVEL
- TW159.30 TOP OF RETAINING WALL
- BW159.30 BOTTOM OF RETAINING WALL
- PL11.08 PAD LEVEL
- RIDGE LINE
- RETAINING WALL
- OVERLAND FLOW
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED AND REPLACED AS PER ARBORIST ADVICE DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS
- EXISTING TREE
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- FUTURE DRIVEWAY
- VC NEW LAYBACK TO BE CUT IN TO EXISTING KERB FOR FUTURE DRIVEWAY. ALL NEW DRIVEWAYS TO BE 4m WIDE WITH EXCEPTION TO LOTS 1012 & 1013. LOTS 1012 & 1013 DRIVEWAYS TO BE 3m WIDE.
- RAINGARDEN
- SUBJECT AREA OF WORKS
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL




SITE PLAN
NOT TO SCALE

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: LAYOUT PLAN
STAGE 6
SHEET 2 OF 2

Sheet 28 of 162
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 060 | B |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-056-LAY.dwg

SINAI AVENUE

MILPERRA RESERVE

GPT TO BE INSTALLED IN ASHFORD AVENUE VERGE

CONSTRUCT STANDARD GULLY PIT OVER EXISTING STORMWATER DRAIN

PROPOSED STANDARD RAISED PEDESTRIAN CROSSING. REFER TO COUNCIL STANDARD DRAWING S-308

EXISTING STORMWATER DRAINAGE PIPES & PITS IN ASHFORD AVENUE TO BE RETAINED

PROPOSED ELECTRICAL KIOSK SUBSTATION SUBJECT TO AUSGRID APPROVAL.

BOTTOM OF RETAINING WALL (TYP.)

TOP OF RETAINING WALL (TYP.)

REMOVE EXISTING EDGE STRIP, NO ROAD SIGN & BARRIER AND MATCH NEATLY INTO EXISTING CONSTRUCTION.

CONSTRUCT HEAVY DUTY VFC TO BE IN ACCORDANCE WITH COUNCIL STANDARDS S-008

CONTROL LINE LOCATED ALONG THE TOP OF EXISTING BACK OF KERB

EXISTING SUBSTATION TO BE RELOCATED

REMOVE EXISTING EDGE STRIP, NO ROAD SIGN & BARRIER AND MATCH NEATLY INTO EXISTING CONSTRUCTION.

EXISTING STAGE 6

EXISTING STAGE 2

EXISTING STAGE 2

WALK 1

ROAD 10

LANE 3

ROAD 1

ROAD 2A

ROAD 2B

ROAD 7

ROAD 8

ASHFORD AVENUE

71 72 73 74 75 76

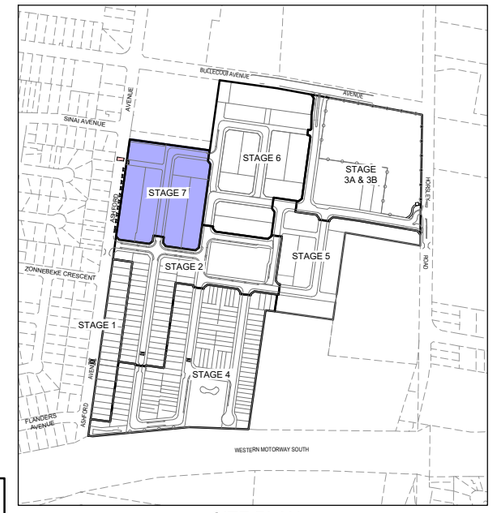
61 62 63 64 65

## LEGEND - RETAINING WALLS

- POST & CONCRETE SLEEPER RETAINING WALL
- MASONRY BLOCK RETAINING WALL
- REINFORCED CONCRETE OR POST AND CONCRETE PANEL WALL

## LEGEND - LAYOUT PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- INDICATIVE SEWER ALIGNMENT
- HOUSE DRAIN
- TACTILE PAVERS (INDICATIVE ONLY)
- ELECTRICITY (UNDERGROUND)
- ELECTRICITY (OVERHEAD)
- OPTIC FIBRE
- TELECOMMUNICATIONS
- GAS
- WATER
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING STORMWATER DRAIN
- EXISTING SEWER
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- EXISTING SURFACE LEVEL
- FINISHED BUILDING LINE LEVEL
- FINISHED RIDGE LINE LEVEL
- TOP OF RETAINING WALL
- BOTTOM OF RETAINING WALL
- PAD LEVEL
- RIDGE LINE
- RETAINING WALL
- OVERLAND FLOW
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED AND REPLACED AS PER ARBORIST ADVICE DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS
- EXISTING TREE
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- FUTURE DRIVEWAY
- VC — NEW LAYBACK TO BE CUT IN TO EXISTING KERB FOR FUTURE DRIVEWAY. ALL NEW DRIVEWAYS TO BE 4m WIDE WITH EXCEPTION TO LOTS 1012 & 1013. LOTS 1012 & 1013 DRIVEWAYS TO BE 3m WIDE.
- RAINGARDEN
- SUBJECT AREA OF WORKS
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL




SITE PLAN
NOT TO SCALE

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| E | RESPONSE TO REQUEST FOR INFORMATION | 10.06.26 | GN | SG |
| D | RESPONSE TO SUBMISSIONS | 05.05.26 | GN | SG |
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

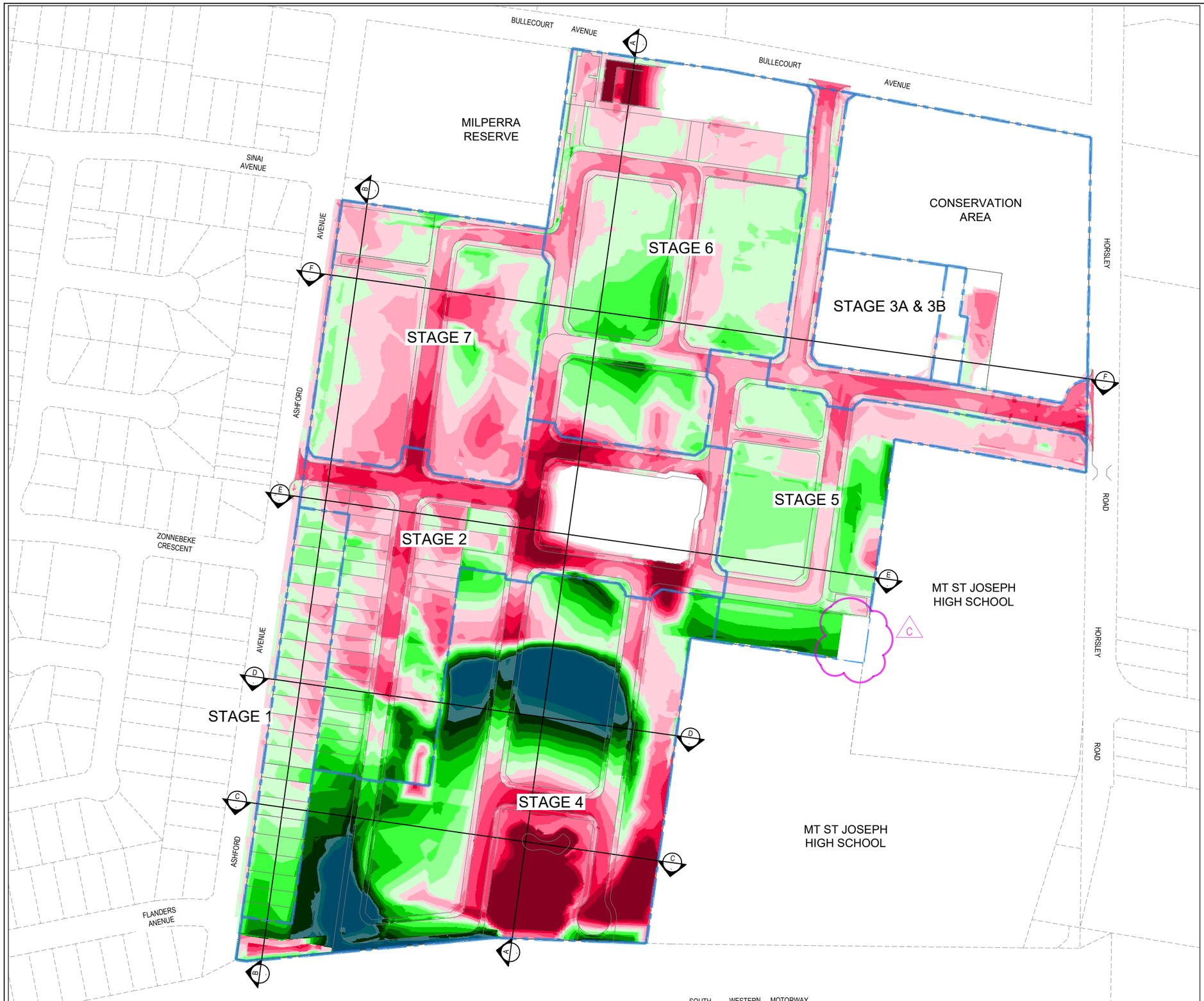
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: LAYOUT PLAN
STAGE 7

Sheet 29 of 162
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 061 | E |

C:\12DWS\data\MELSQL01\Eng - 321_357\Drawings\2301879-321-057-LAY.dwg




## CUT AND FILL LEGEND

| DEPTH RANGE (m) | | COLOUR |
|---|---|---|
| >1.8m CUT | | |
| -1.8 | -1.5 | |
| -1.5 | -1.2 | |
| -1.2 | -0.9 | |
| -0.9 | -0.6 | |
| -0.6 | -0.3 | |
| -0.3 | 0.0 | |
| 0.0 | 0.3 | |
| 0.3 | 0.6 | |
| 0.6 | 0.9 | |
| 0.9 | 1.2 | |
| 1.2 | 1.5 | |
| 1.5 | 1.8 | |
| 1.8 | 2.1 | |
| 2.1 | 2.4 | |
| 2.4 | 2.7 | |
| >2.7m FILL | | |

APPROXIMATE EARTHWORKS VOLUMES:

CUT - 55,868m³
FILL - 58,694m³

BALANCE - 2,826m³ OF FILL

* THIS ESTIMATE IS BASED ON POST DEMOLITION EXISTING SURFACE TO BOXING DESIGN SURFACE

**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved.
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO REQUEST FOR INFORMATION | 10.06.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 12.5 25 50 75 100
SCALE 1:1250 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

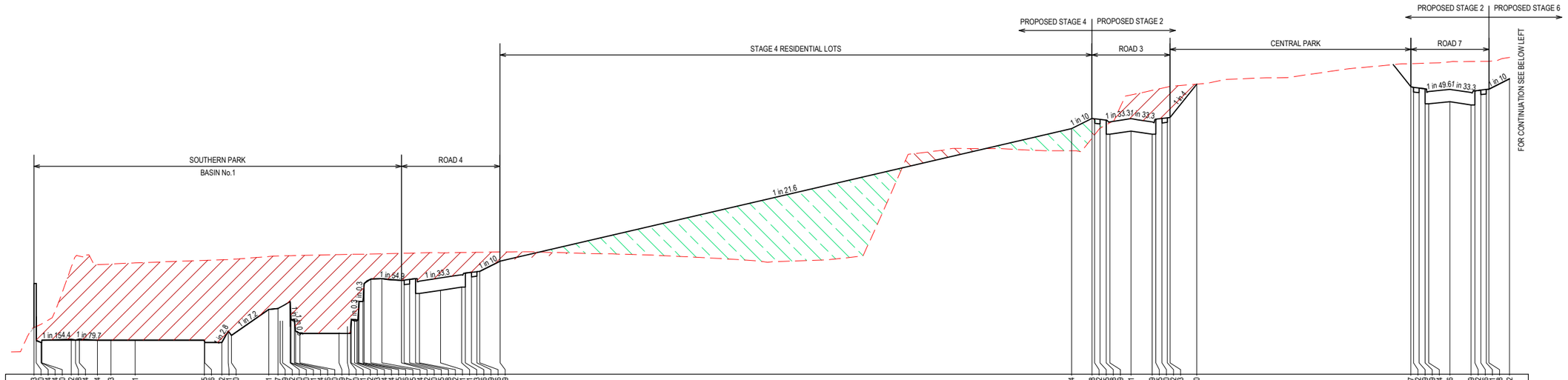
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: BULK EARTHWORKS OVERALL PLAN

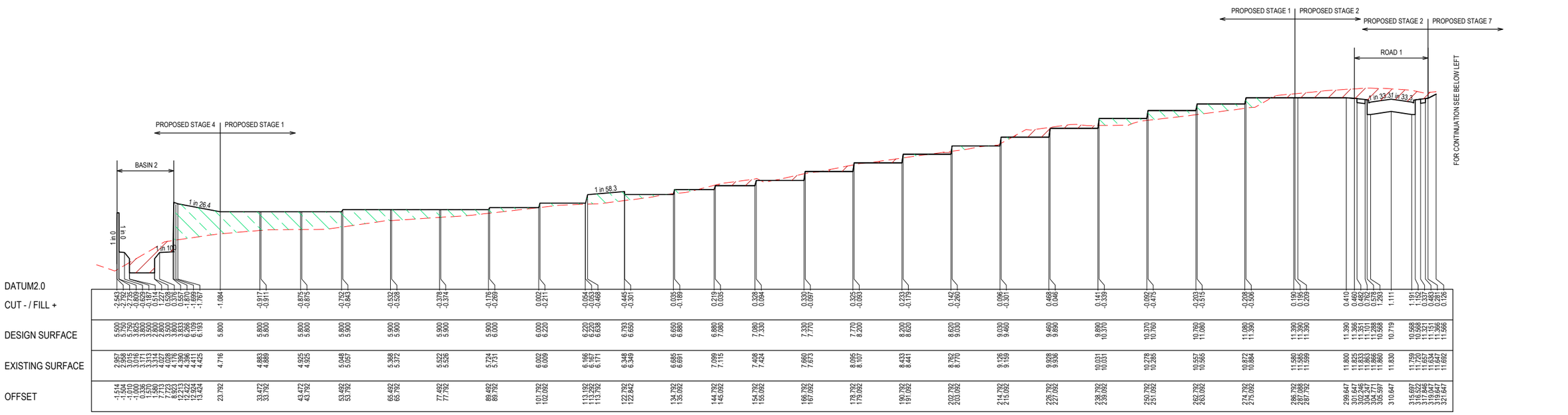
Sheet 30 of 162
Scale 1:1250 @ A1

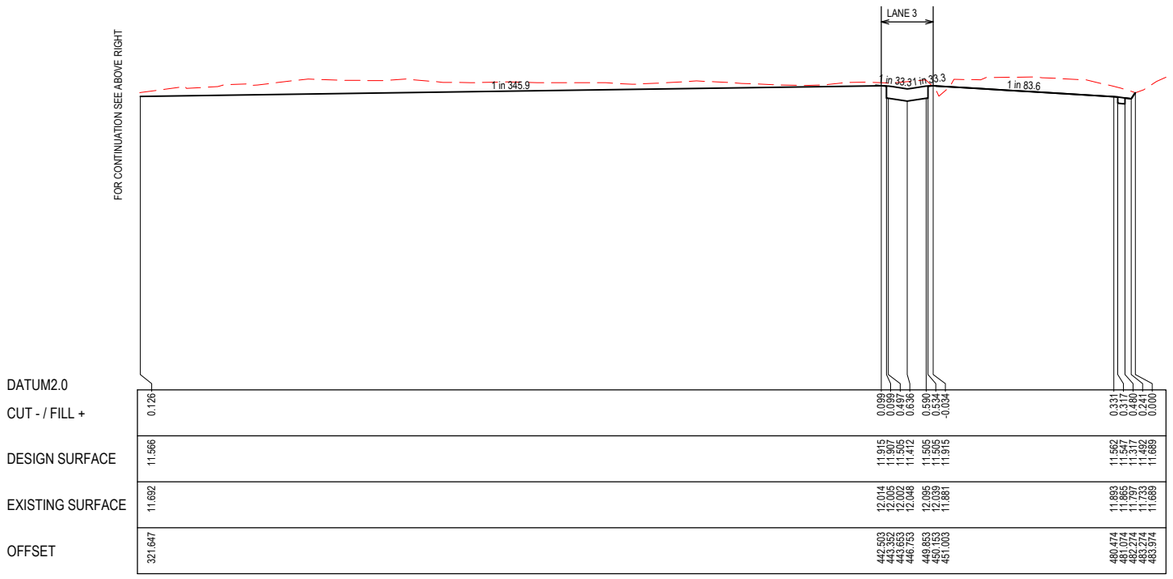
| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 070 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-070-BULK.dwg


PROPOSED STAGE 4
PROPOSED STAGE 2
PROPOSED STAGE 2
PROPOSED STAGE 6
STAGE 4 RESIDENTIAL LOTS
ROAD 3
CENTRAL PARK
ROAD 7
SOUTHERN PARK
BASIN No.1
ROAD 4
FOR CONTINUATION SEE BELOW LEFT
1 in 21.6
1 in 10
1 in 33.3
1 in 54.3
1 in 154.4
1 in 79.7
1 in 7.2
1 in 2.8
1 in 49.6
1 in 33.3

| | | |




SECTION B-B
CROSS SECTIONS

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site,
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

HORIZ 1:500 0 5 10 20 30
VERT 1:100 0 1 2 4 6
SCALE AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: BULK EARTHWORKS SECTION B

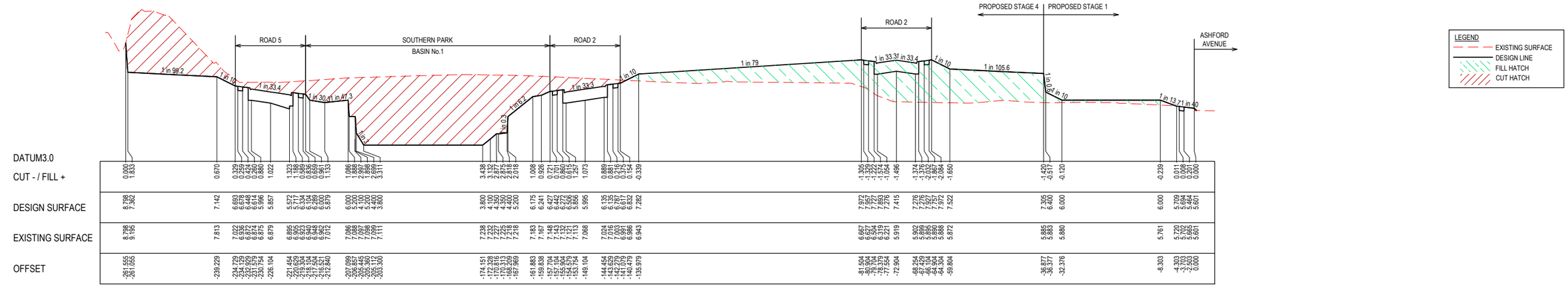
Sheet 32 of 162

Scale 1:500 H 1:100 V @ A1

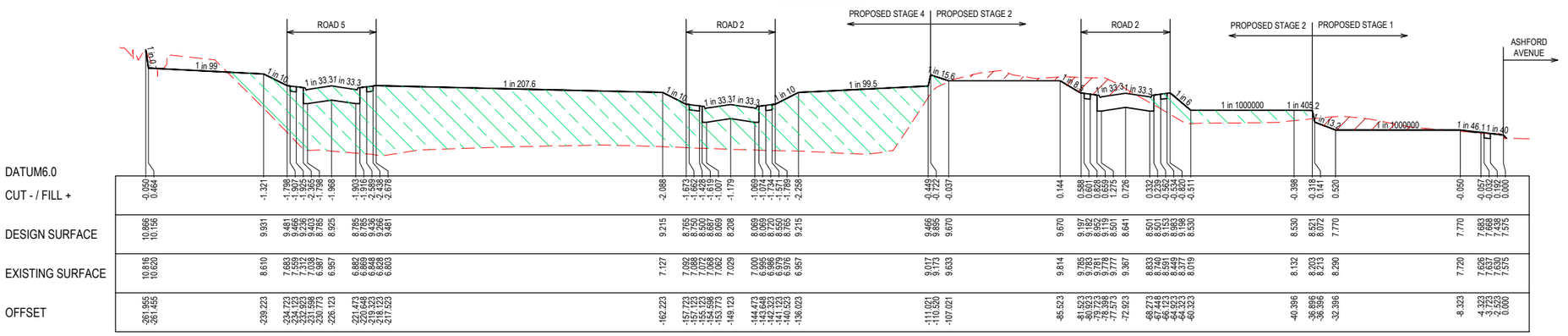
N

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 072 | B |

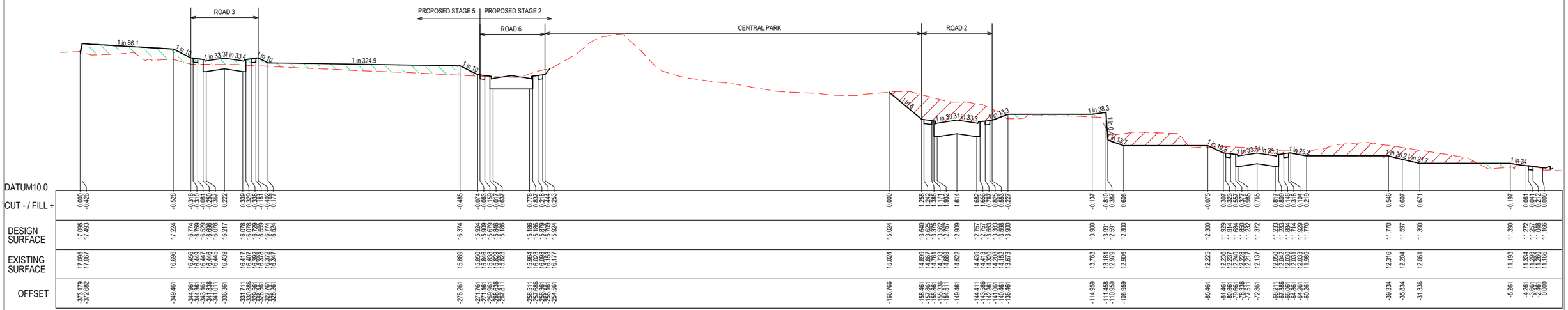
C:\12DWS\data\MELSQL01Eng - 321_3578\Drawings\2301879-321-070-BULK.dwg




SECTION C-C
CROSS SECTIONS




SECTION D-D
CROSS SECTIONS




SECTION E-E
CROSS SECTIONS

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

HORIZ 1:500 0 5 10 20 30
VERT 1:100 0 1 2 4 6
SCALE AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

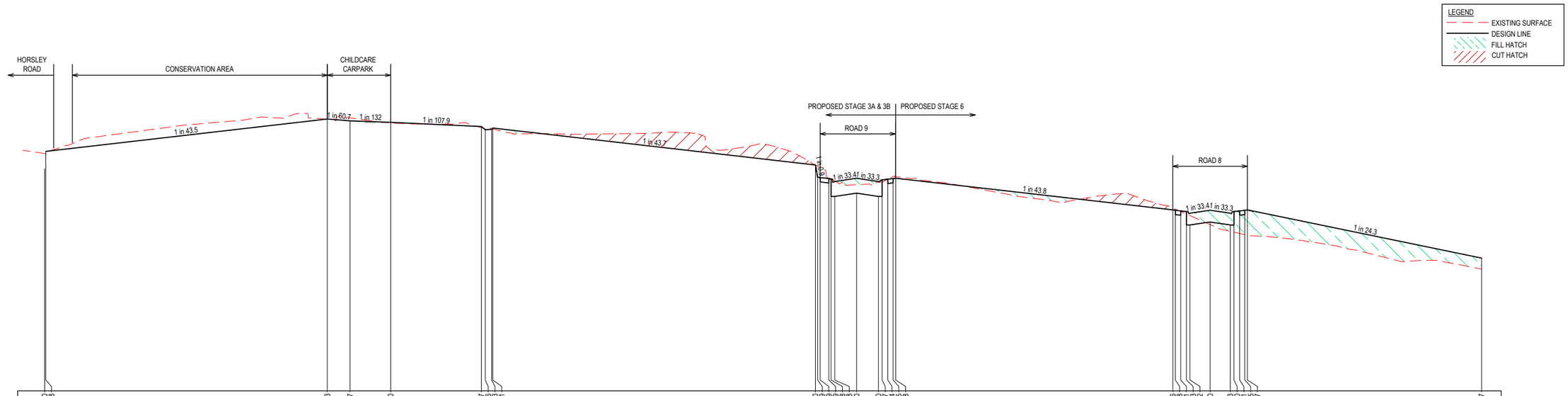
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: BULK EARTHWORKS SECTIONS C, D & E

Sheet 33 of 162
Scale 1:500 H 1:100 V @ A1

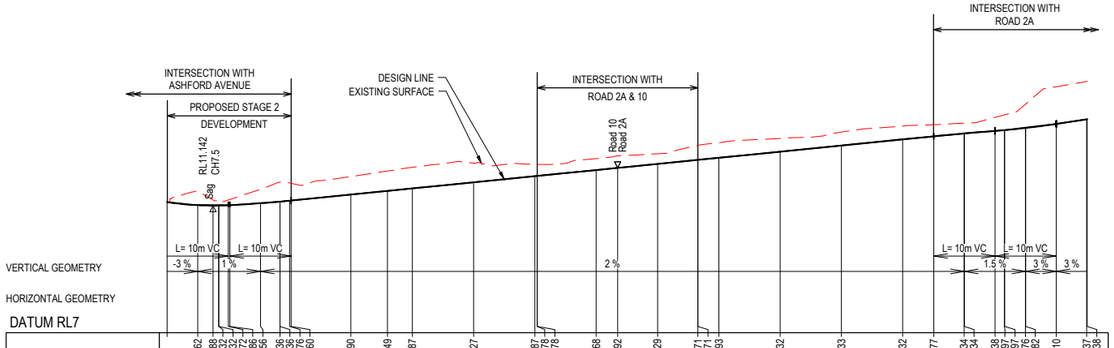
| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 073 | B |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-070-BULK.dwg


LEGEND
EXISTING SURFACE
DESIGN LINE
FILL HATCH
CUT HATCH
HORSLEY ROAD
CONSERVATION AREA
CHILDCARE CARPARK
PROPOSED STAGE 3A & 3B
PROPOSED STAGE 6
ROAD 9
ROAD 8
1 in 43.5
1 in 60.7
1 in 132
1 in 107.9
1 in 43.7
1 in 33.41 in 33.3
1 in 43.8
1 in 33.41 in 33.3
1 in 24.3

| | | |

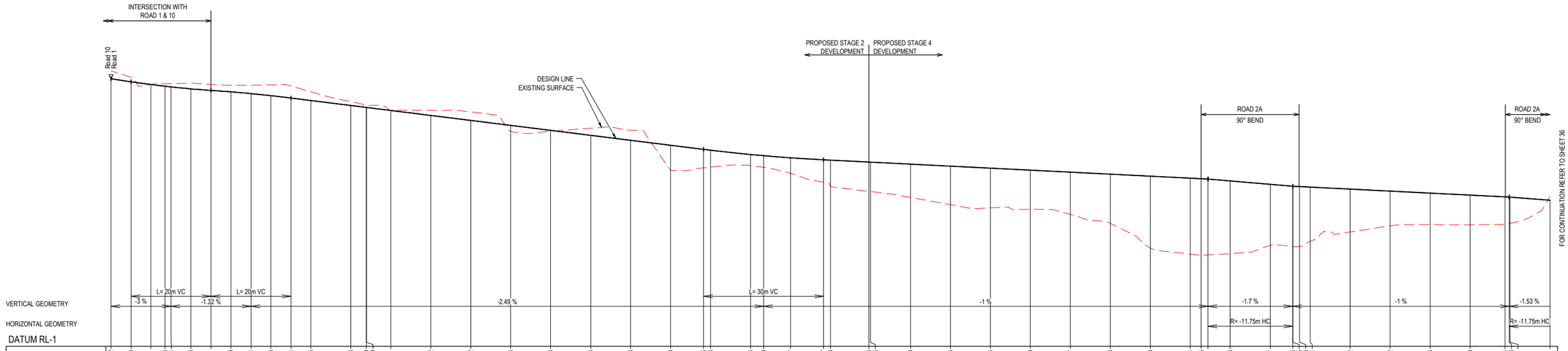
LEGEND
EXISTING SURFACE
DESIGN LINE




DATUM RL7

| CHAINAGE | 0.000 | 5.000 | 7.500 | 8.429 | 10.000 | 10.253 | 15.253 | 18.429 | 19.447 | 20.000 | 20.253 | 30.000 | 35.967 | 40.000 | 50.000 | 60.000 | 60.387 | 60.396 | 70.000 | 73.491 | 80.000 | 86.587 | 86.596 | 90.000 | 100.000 | 110.000 | 120.000 | 125.041 | 130.000 | 130.041 | 135.041 | 135.927 | 136.596 | 140.000 | 140.041 | 145.041 | 150.000 | 150.091 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXISTING SURFACE | | 11.616 | 11.330 | 11.276 | 11.326 | 11.343 | 11.675 | 11.909 | 11.909 | 11.878 | 11.867 | 12.092 | 12.271 | 12.389 | 12.529 | 12.489 | 12.488 | 12.488 | 12.670 | 12.764 | 12.832 | 13.105 | 13.105 | 13.195 | 13.334 | 13.535 | 13.734 | 13.780 | 13.831 | 13.831 | 14.017 | 14.100 | 14.100 | 14.447 | 14.454 | 15.014 | 15.189 | 15.192 |
| DESIGN CENTRELINE | 11.255 | 11.155 | 11.142 | 11.144 | 11.144 | 11.155 | 11.220 | 11.273 | 11.273 | 11.302 | 11.307 | 11.502 | 11.622 | 11.702 | 11.902 | 12.102 | 12.110 | 12.110 | 12.302 | 12.372 | 12.502 | 12.634 | 12.634 | 12.702 | 12.902 | 13.102 | 13.302 | 13.403 | 13.496 | 13.497 | 13.578 | 13.603 | 13.603 | 13.671 | 13.672 | 13.803 | 13.952 | 13.955 |
| CUT - / FILL + | | -0.462 | -0.188 | -0.132 | -0.172 | -0.186 | -0.456 | -0.636 | -0.636 | -0.576 | -0.560 | -0.590 | -0.649 | -0.687 | -0.627 | -0.387 | -0.378 | -0.378 | -0.368 | -0.392 | -0.329 | -0.471 | -0.471 | -0.493 | -0.432 | -0.433 | -0.432 | -0.377 | -0.334 | -0.334 | -0.438 | -0.497 | -0.497 | -0.776 | -0.782 | -1.210 | -1.237 | -1.238 |

ROAD 1 LONGITUDINAL SECTION




DATUM RL-1

| CHAINAGE | 0.000 | 5.041 | 10.000 | 13.504 | 15.041 | 20.000 | 25.041 | 30.000 | 35.041 | 40.000 | 45.041 | 50.000 | 60.000 | 63.896 | 63.904 | 70.000 | 80.000 | 90.000 | 100.000 | 110.000 | 120.000 | 130.000 | 140.000 | 148.265 | 150.000 | 160.000 | 163.265 | 170.000 | 178.265 | 180.000 | 189.609 | 190.000 | 200.000 | 210.000 | 220.000 | 230.000 | 240.000 | 250.000 | 260.000 | 270.000 | 272.723 | 274.431 | 280.000 | 290.000 | 295.630 | 295.631 | 297.340 | 300.000 | 310.000 | 320.000 | 330.000 | 340.000 | 348.704 | 349.801 | 350.000 | 360.000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXISTING SURFACE | 12.764 | 12.450 | 12.082 | 12.121 | 12.127 | 12.149 | 12.090 | 12.047 | 12.052 | 12.065 | 12.013 | 11.721 | 11.225 | 11.059 | 11.059 | 10.800 | 10.792 | 10.714 | 9.750 | 9.747 | 9.900 | 9.806 | 7.789 | 7.918 | 7.954 | 8.031 | 7.947 | 7.644 | 7.205 | 7.016 | 6.745 | 6.736 | 6.444 | 6.079 | 5.918 | 5.845 | 5.597 | 5.151 | 3.914 | 3.610 | 3.552 | 3.568 | 3.632 | 4.048 | 3.983 | 3.983 | 3.959 | 4.252 | 4.714 | 5.024 | 5.080 | 5.075 | 5.144 | 5.149 | 5.153 | 6.483 |
| DESIGN CENTRELINE | 12.372 | 12.221 | 12.082 | 11.997 | 11.963 | 11.866 | 11.789 | 11.717 | 11.628 | 11.527 | 11.409 | 11.286 | 11.037 | 10.941 | 10.940 | 10.789 | 10.540 | 10.292 | 10.043 | 9.795 | 9.546 | 9.298 | 9.049 | 8.844 | 8.802 | 8.586 | 8.527 | 8.421 | 8.321 | 8.304 | 8.208 | 8.204 | 8.104 | 8.004 | 7.904 | 7.804 | 7.704 | 7.604 | 7.504 | 7.404 | 7.377 | 7.360 | 7.265 | 7.095 | 6.999 | 6.999 | 6.982 | 6.956 | 6.856 | 6.756 | 6.656 | 6.556 | 6.468 | 6.468 | 6.455 | 6.301 |
| CUT - / FILL + | -0.392 | -0.229 | 0.011 | -0.123 | -0.164 | -0.283 | -0.301 | -0.330 | -0.424 | -0.538 | -0.604 | -0.435 | -0.188 | -0.119 | -0.119 | -0.011 | -0.252 | -0.422 | 0.293 | 0.048 | -0.353 | -0.508 | 1.260 | 0.926 | 0.848 | 0.556 | 0.579 | 0.777 | 1.117 | 1.288 | 1.463 | 1.468 | 1.660 | 1.925 | 1.986 | 1.959 | 2.107 | 2.453 | 3.590 | 3.794 | 3.825 | 3.791 | 3.633 | 3.047 | 3.016 | 3.016 | 2.983 | 2.704 | 2.142 | 1.732 | 1.576 | 1.480 | 1.354 | 1.308 | 1.301 | -0.181 |

ROAD 2A LONGITUDINAL SECTION

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

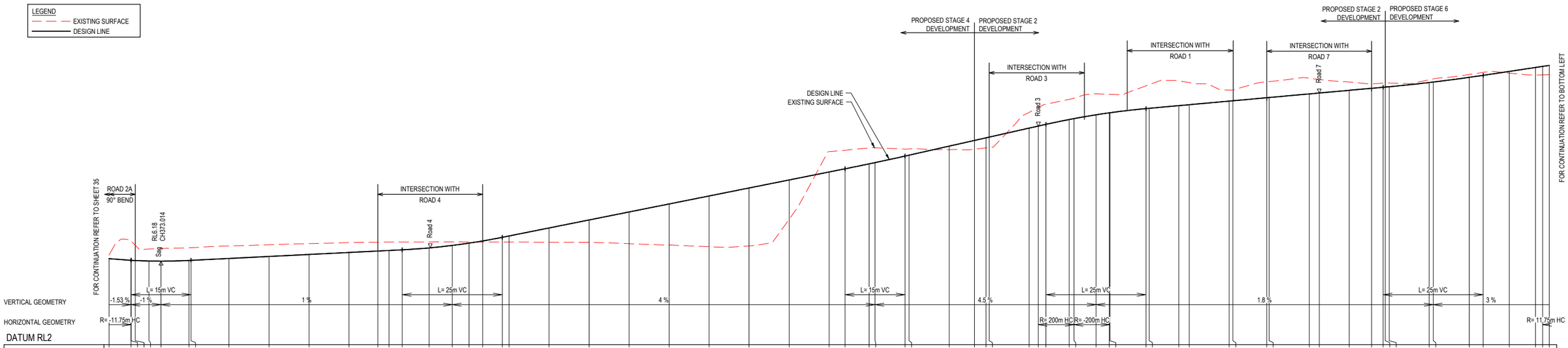
| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | L.S |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2 & 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | ROAD LONGITUDINAL SECTIONS (SHEET 1 OF 6) |

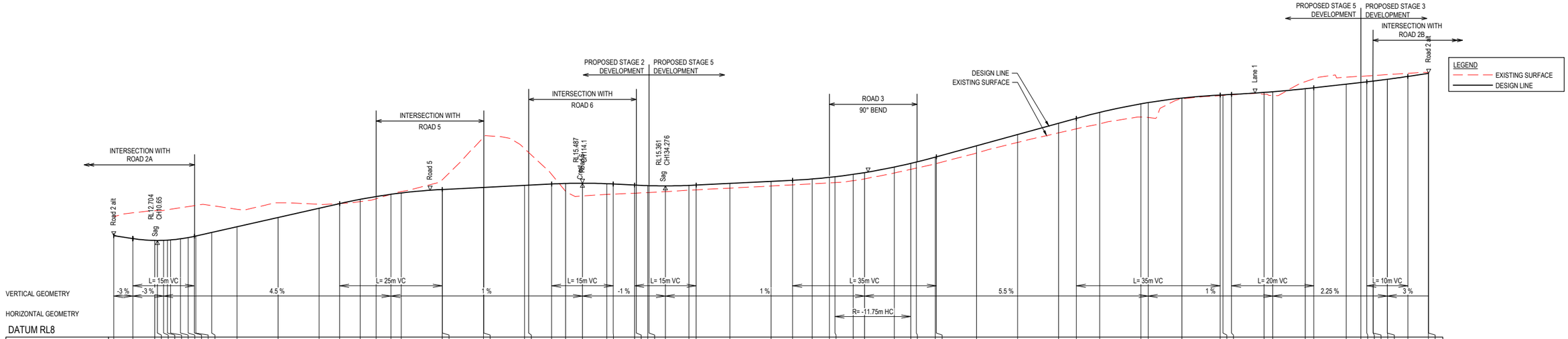
| Sheet | 35 of 162 | | |
|---|---|---|---|
| Scale | 1:200 @ A1 | | |
| Project Ref | Stage No | Drawing No | Rev |
| 2301879 | 321 | 101 | B |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-100-RLS.dwg


LEGEND
EXISTING SURFACE
DESIGN LINE
PROPOSED STAGE 4 DEVELOPMENT
PROPOSED STAGE 2 DEVELOPMENT
PROPOSED STAGE 2 DEVELOPMENT
PROPOSED STAGE 6 DEVELOPMENT
INTERSECTION WITH ROAD 1
INTERSECTION WITH ROAD 7
INTERSECTION WITH ROAD 3
DESIGN LINE
EXISTING SURFACE
Road 3
Road 7
ROAD 2A
90° BEND
INTERSECTION WITH ROAD 4
Road 4
RL6.18
CH373.014
Sag
FOR CONTINUATION REFER TO SHEET 35
FOR CONTINUATION REFER TO BOTTOM LEFT
VERTICAL GEOMETRY
HORIZONTAL GEOMETRY
-1.53 %
-1 %
1 %
4 %
4.5 %
1.8 %
3 %
L= 15m VC
L= 25m VC
L= 15m VC
L= 25m VC
L= 25m VC
R= -11.75m HC
R= 200m HC
R= -200m HC
R= 11.75m HC

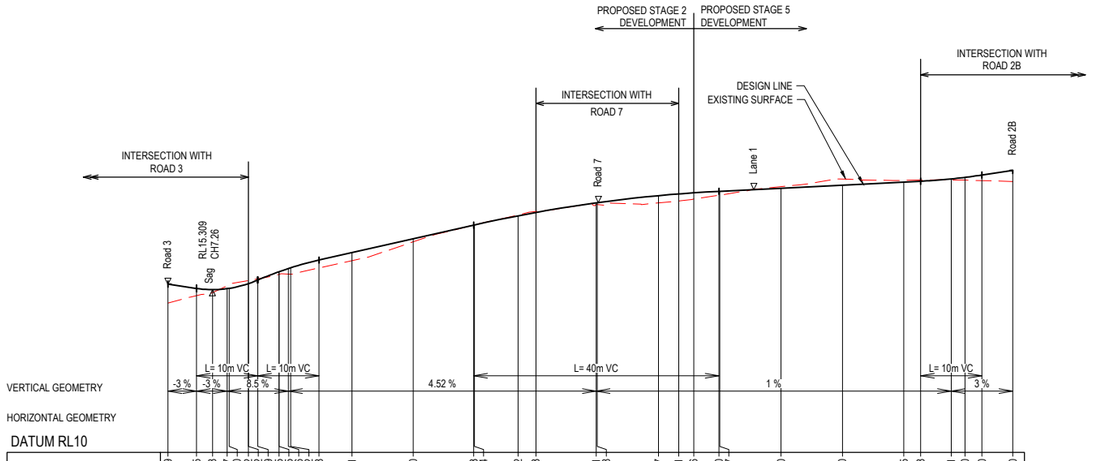
DATUM RL2

| | | |


PROPOSED STAGE 5 DEVELOPMENT
PROPOSED STAGE 3 DEVELOPMENT
INTERSECTION WITH ROAD 2B
Road 2 alt
LEGEND
EXISTING SURFACE
DESIGN LINE
DESIGN LINE EXISTING SURFACE
Lane 1
ROAD 3 90° BEND
PROPOSED STAGE 2 DEVELOPMENT
PROPOSED STAGE 5 DEVELOPMENT
INTERSECTION WITH ROAD 6
INTERSECTION WITH ROAD 5
INTERSECTION WITH ROAD 2A
Road 2 alt
RL12.704 CH10.65
Sag
Road 5
RL15.487 CH114.1
Crest
RL15.361 CH134.276
Sag
VERTICAL GEOMETRY
HORIZONTAL GEOMETRY
-3 %
-3 %
L= 15m VC
4.5 %
L= 25m VC
1 %
L= 15m VC
-1 %
L= 15m VC
1 %
L= 35m VC
R= -11.75m HC
5.5 %
L= 35m VC
1 %
L= 20m VC
2.25 %
L= 10m VC
3 %

DATUM RL8

| | | |



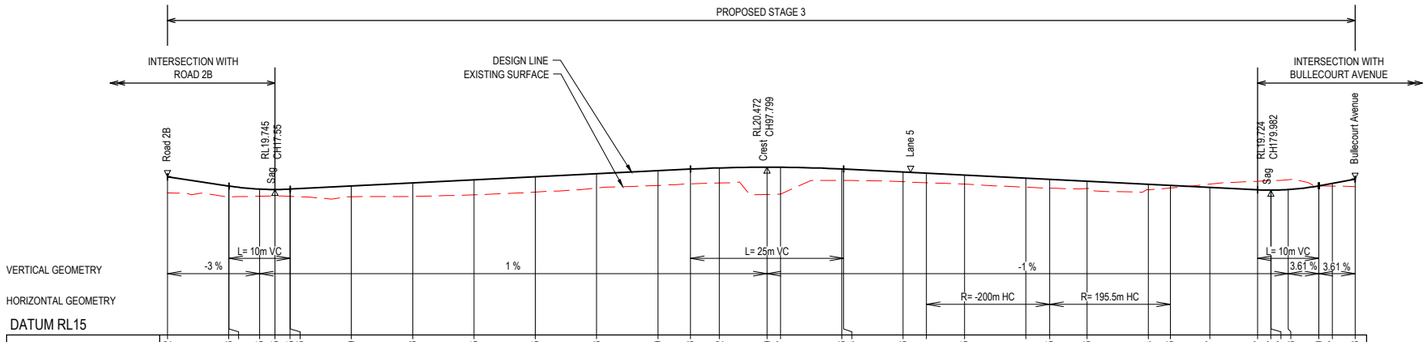

VERTICAL GEOMETRY

HORIZONTAL GEOMETRY

DATUM RL10

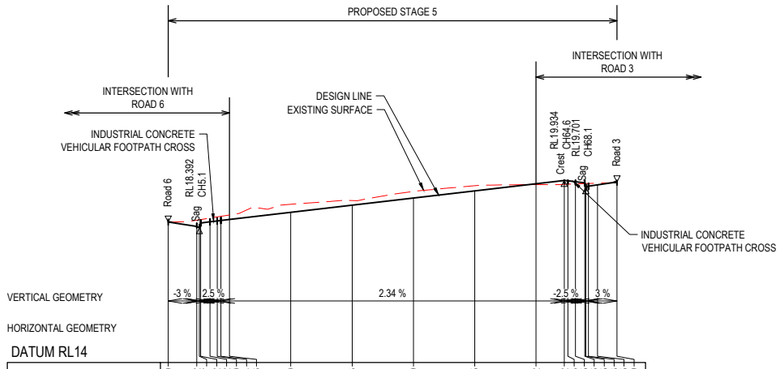
| | | |

LEGEND
EXISTING SURFACE
DESIGN LINE




DATUM RL15

| | | |


PROPOSED STAGE 5
INTERSECTION WITH ROAD 6
INTERSECTION WITH ROAD 3
DESIGN LINE
EXISTING SURFACE
INDUSTRIAL CONCRETE VEHICULAR FOOTPATH CROSS
Road 6
RL18.392
CH5.1
Sag
Crest
RL19.934
CH54.16
RL19.701
CH68.1
Sag
Road 3
INDUSTRIAL CONCRETE VEHICULAR FOOTPATH CROSS
VERTICAL GEOMETRY
-3 %
2.5 %
2.34 %
-2.5 %
3 %
HORIZONTAL GEOMETRY

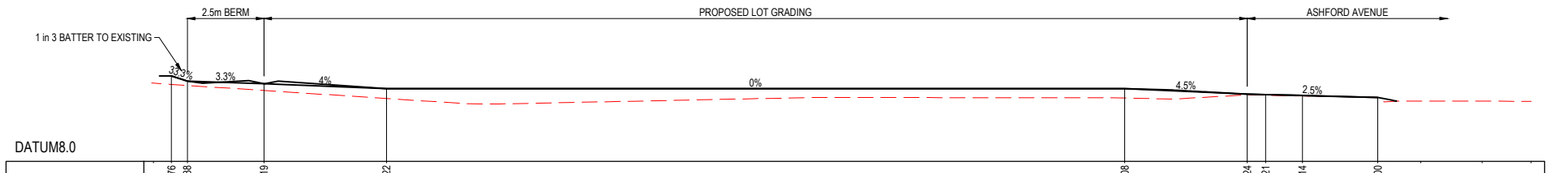
DATUM RL14

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



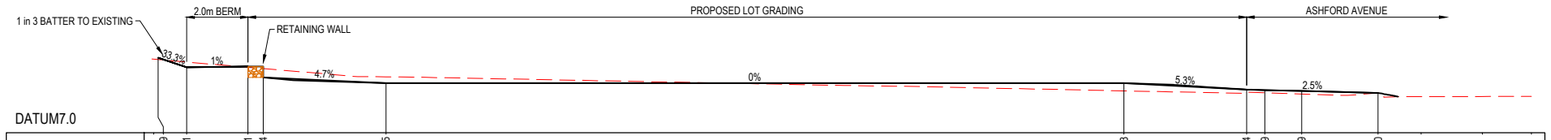

DATUM8.0

| | | |

LEGEND

EXISTING SURFACE

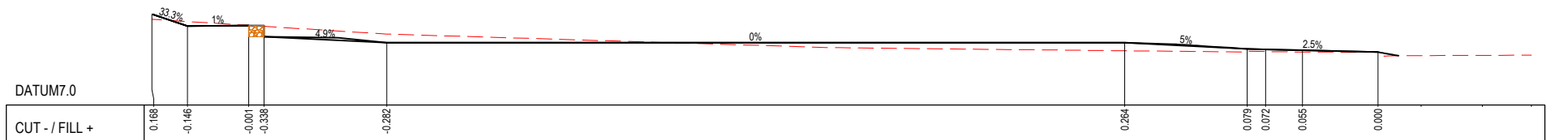
DESIGN SURFACE




DATUM7.0

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | 0.059 | -0.171 | 0.021 | -0.284 | -0.205 | 0.253 | 0.084 | 0.089 | 0.099 | 0.000 | | | | | | | | | | | | | | |
| DESIGN SURFACE | 9.446 | 9.136 | 9.156 | 8.808 | 8.620 | 8.620 | 8.408 | 8.393 | 8.363 | 8.301 | | | | | | | | | | | | | | |
| EXISTING SURFACE | 9.404 | 9.386 | 9.307 | 9.135 | 9.092 | 8.825 | 8.367 | 8.324 | 8.304 | 8.264 | 8.301 | 8.174 | 8.166 | 8.160 | | | | | | | | | | |
| OFFSET | -40.000 | -39.793 | -38.864 | -36.864 | -36.364 | -32.364 | -8.291 | -4.291 | -3.691 | -2.491 | 0.000 | 1.400 | 3.400 | 5.000 | | | | | | | | | | |

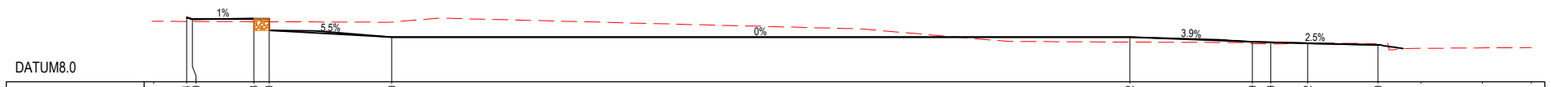
LOT 1108 CH 100.429




DATUM7.0

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | 0.168 | -0.146 | -0.001 | -0.338 | -0.282 | 0.264 | 0.079 | 0.072 | 0.055 | 0.000 | | | | | | | | | | | | | | |
| DESIGN SURFACE | 9.959 | 9.572 | 9.592 | 9.224 | 9.030 | 9.030 | 8.828 | 8.813 | 8.783 | 8.722 | | | | | | | | | | | | | | |
| EXISTING SURFACE | 9.791 | 9.718 | 9.593 | 9.562 | 9.312 | 8.766 | 8.750 | 8.741 | 8.728 | 8.722 | 8.601 | 8.598 | 8.596 | | | | | | | | | | | |
| OFFSET | -40.000 | -38.839 | -36.839 | -36.339 | -32.339 | -8.266 | -4.266 | -3.666 | -2.466 | 0.000 | 1.400 | 3.400 | 5.000 | | | | | | | | | | | |

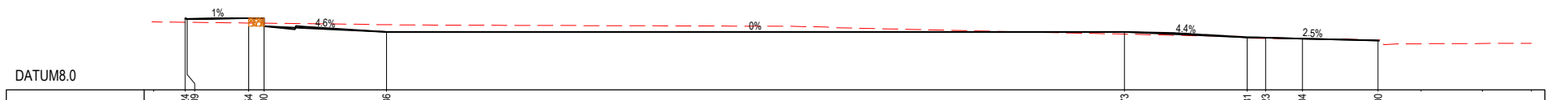
LOT 1107 CH 88.455




DATUM8.0

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | 0.134 | 0.070 | 0.098 | -0.280 | -0.490 | 0.162 | 0.059 | 0.049 | -0.012 | 0.000 | | | | | | | | | | | | | | |
| DESIGN SURFACE | 10.104 | 10.039 | 10.060 | 9.680 | 9.460 | 9.460 | 9.305 | 9.290 | 9.260 | 9.203 | | | | | | | | | | | | | | |
| EXISTING SURFACE | 9.974 | 9.970 | 9.969 | 9.961 | 9.959 | 9.950 | 9.298 | 9.247 | 9.241 | 9.272 | 9.203 | 9.087 | 9.089 | 9.091 | | | | | | | | | | |
| OFFSET | -40.000 | -38.867 | -38.673 | -36.673 | -36.173 | -32.173 | -8.099 | -4.099 | -3.499 | -2.299 | 0.000 | 1.400 | 3.400 | 5.000 | | | | | | | | | | |

LOT 1106 CH 75.198




DATUM8.0

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | 0.124 | 0.109 | 0.154 | -0.100 | -0.236 | 0.073 | 0.031 | 0.023 | 0.004 | 0.000 | | | | | | | | | | | | | | |
| DESIGN SURFACE | 10.330 | 10.314 | 10.334 | 10.074 | 9.890 | 9.890 | 9.715 | 9.700 | 9.670 | 9.608 | | | | | | | | | | | | | | |
| EXISTING SURFACE | 10.219 | 10.205 | 10.204 | 10.180 | 10.174 | 10.126 | 9.817 | 9.684 | 9.677 | 9.665 | 9.608 | 9.495 | 9.494 | 9.492 | | | | | | | | | | |
| OFFSET | -40.000 | -38.916 | -38.844 | -36.844 | -36.344 | -32.344 | -8.271 | -4.271 | -3.671 | -2.471 | 0.000 | 1.400 | 3.400 | 5.000 | | | | | | | | | | |

LOT 1105 CH 64.346

ASHFORD AVENUE - ROAD CROSS SECTIONS

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

HORIZ. 1:100 0 1 2 4 6

VERT. 1:50 0 0.5 1 2 3

SCALE AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | L.S |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: ROAD CROSS SECTIONS
STAGE 1 - ASHFORD AVENUE
(SHEET 2 OF 6)

Sheet 42 of 162

Scale 1:100 H 1:50 V @ A1

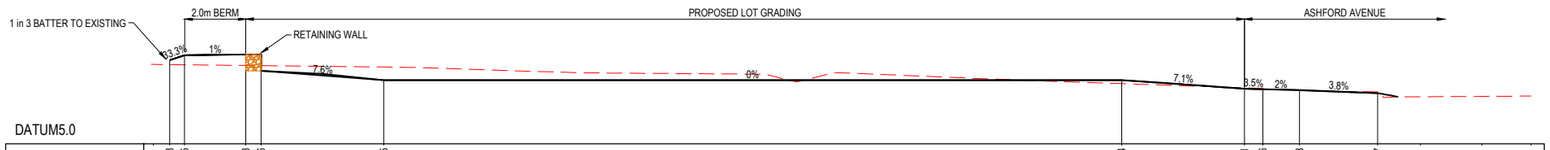
| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 201 | B |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-200-RXS.dwg

LEGEND

EXISTING SURFACE

DESIGN SURFACE



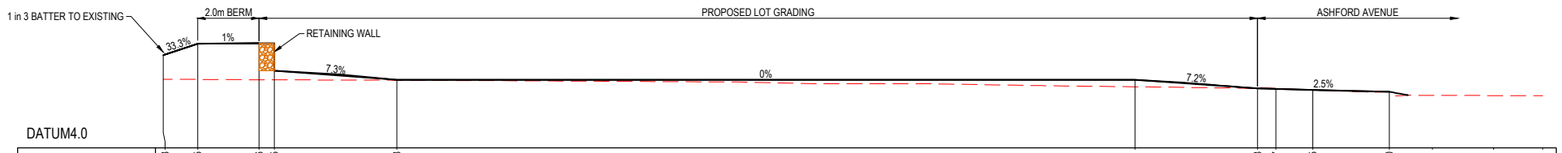

DATUM5.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



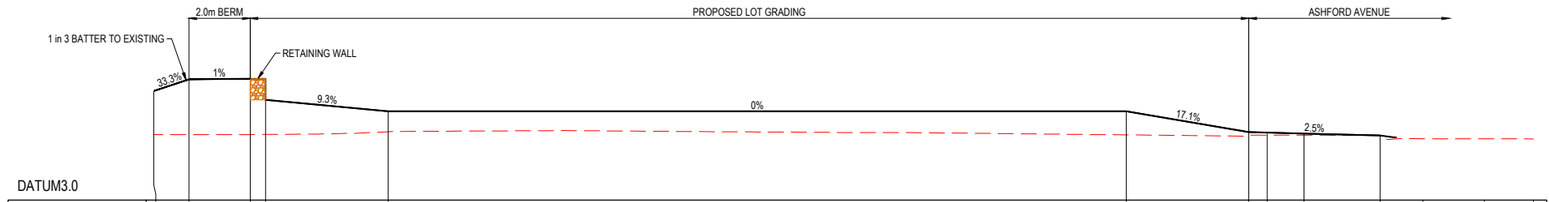

DATUM4.0

| | | |

LEGEND

EXISTING SURFACE

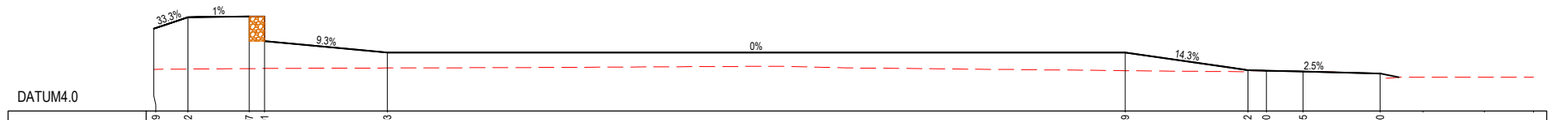
DESIGN SURFACE




DATUM3.0

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | 1.425 | 1.805 | 1.820 | 1.128 | 0.669 | 0.773 | 0.100 | 0.085 | 0.056 | 0.000 | | | | | | | | | | | | |
| DESIGN SURFACE | 6.558 | 6.940 | 6.960 | 6.271 | 5.900 | 5.900 | 5.216 | 5.201 | 5.171 | 5.109 | | | | | | | | | | | | |
| EXISTING SURFACE | 5.133 | 5.135 | 5.140 | 5.143 | 5.231 | 5.127 | 5.117 | 5.116 | 5.115 | 5.109 | 5.002 | 4.994 | 4.991 | | | | | | | | | |
| OFFSET | -40.000 | -38.855 | -36.856 | -36.356 | -32.356 | -8.283 | -4.283 | -3.683 | -2.483 | 0.000 | 1.400 | 3.400 | 5.000 | | | | | | | | | |

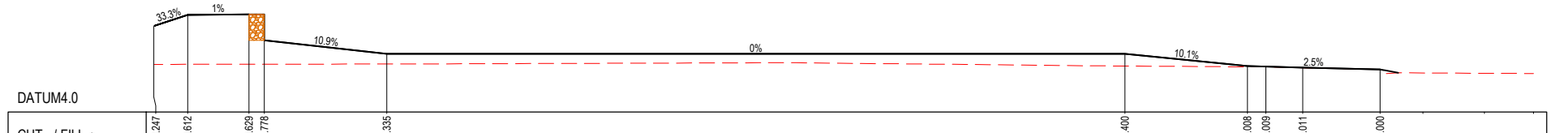
LOT 1205 CH 237.595




DATUM4.0

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | 1.329 | 1.692 | 1.697 | 0.891 | 0.503 | 0.589 | 0.022 | 0.000 | -0.005 | 0.000 | | | | | | | | | | | | |
| DESIGN SURFACE | 6.683 | 7.055 | 7.075 | 6.272 | 5.900 | 5.900 | 5.326 | 5.311 | 5.281 | 5.219 | | | | | | | | | | | | |
| EXISTING SURFACE | 5.354 | 5.363 | 5.377 | 5.381 | 5.397 | 5.311 | 5.304 | 5.311 | 5.287 | 5.219 | 5.097 | 5.090 | 5.084 | | | | | | | | | |
| OFFSET | -40.000 | -38.885 | -36.886 | -36.386 | -32.385 | -8.312 | -4.312 | -3.712 | -2.512 | 0.000 | 1.400 | 3.400 | 5.000 | | | | | | | | | |

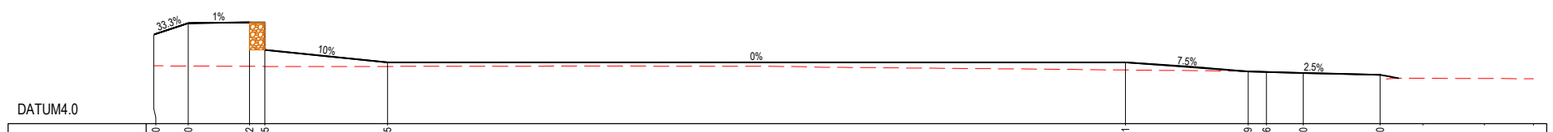
LOT 1204 CH 225.620




DATUM4.0

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | 1.247 | 1.612 | 1.629 | 0.778 | 0.335 | 0.400 | 0.008 | 0.009 | 0.011 | 0.000 | | | | | | | | | | | | |
| DESIGN SURFACE | 6.799 | 7.166 | 7.187 | 6.336 | 5.900 | 5.900 | 5.496 | 5.481 | 5.451 | 5.387 | | | | | | | | | | | | |
| EXISTING SURFACE | 5.552 | 5.554 | 5.557 | 5.558 | 5.565 | 5.500 | 5.487 | 5.472 | 5.440 | 5.387 | 5.270 | 5.256 | 5.244 | | | | | | | | | |
| OFFSET | -40.000 | -38.898 | -36.898 | -36.398 | -32.398 | -8.325 | -4.325 | -3.725 | -2.525 | 0.000 | 1.400 | 3.400 | 5.000 | | | | | | | | | |

LOT 1203 CH 213.604




DATUM4.0

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | 1.020 | 1.400 | 1.432 | 0.535 | 0.135 | 0.251 | -0.009 | -0.006 | 0.000 | 0.000 | | | | | | | | | | | | |
| DESIGN SURFACE | 6.905 | 7.279 | 7.299 | 6.400 | 6.000 | 6.000 | 5.698 | 5.683 | 5.653 | 5.591 | | | | | | | | | | | | |
| EXISTING SURFACE | 5.885 | 5.879 | 5.868 | 5.865 | 5.865 | 5.749 | 5.708 | 5.689 | 5.653 | 5.591 | 5.475 | 5.461 | 5.450 | | | | | | | | | |
| OFFSET | -40.000 | -38.878 | -36.878 | -36.378 | -32.378 | -8.305 | -4.305 | -3.705 | -2.505 | 0.000 | 1.400 | 3.400 | 5.000 | | | | | | | | | |

LOT 1202 CH 201.549

ASHFORD AVENUE - ROAD CROSS SECTIONS

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

HORIZ. 1:100 0 1 2 4 6

VERT. 1:50 0 0.5 1 2 3

SCALE AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | L.S |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: ROAD CROSS SECTIONS STAGE 1 - ASHFORD AVENUE (SHEET 5 OF 6)

Sheet 45 of 162

Scale 1:100 H 1:50 V @ A1

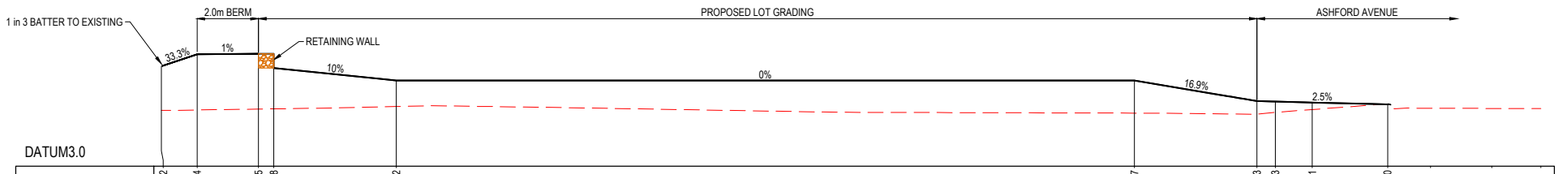
| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 204 | B |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-200-RXS.dwg

LEGEND

EXISTING SURFACE

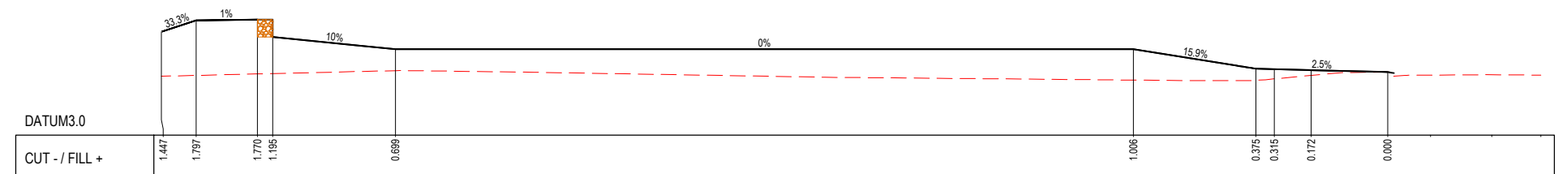
DESIGN SURFACE




DATUM3.0

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | 1.442 | 1.814 | 1.805 | 1.328 | 0.852 | 1.067 | 0.423 | 0.353 | 0.231 | 0.000 | | | | | | | | | | | | | | |
| DESIGN SURFACE | 6.261 | 6.650 | 6.669 | 6.200 | 5.800 | 5.800 | 5.125 | 5.110 | 5.080 | 5.019 | | | | | | | | | | | | | | |
| EXISTING SURFACE | 4.819 | 4.836 | 4.865 | 4.872 | 4.948 | 4.733 | 4.702 | 4.757 | 4.850 | 5.019 | 4.891 | 4.882 | 4.875 | | | | | | | | | | | |
| OFFSET | -40.000 | -38.835 | -36.835 | -36.335 | -32.335 | -8.262 | -4.262 | -3.662 | -2.462 | 0.000 | 1.400 | 3.400 | 5.000 | | | | | | | | | | | |

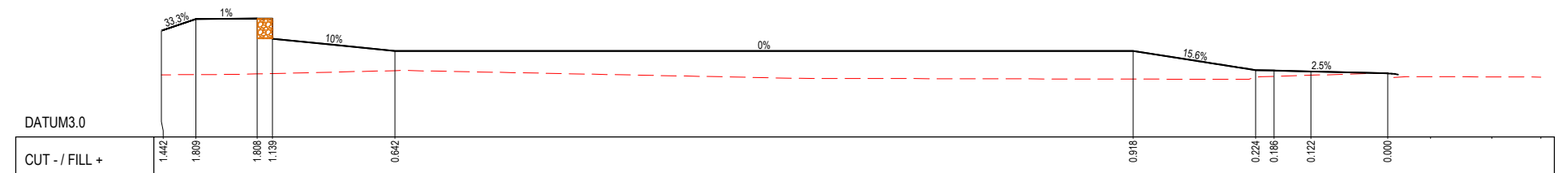
LOT 1208 CH 268.620




DATUM3.0

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | 1.447 | 1.797 | 1.770 | 1.195 | 0.699 | 1.006 | 0.375 | 0.315 | 0.172 | 0.000 | | | | | | | | | | | | | | |
| DESIGN SURFACE | 6.365 | 6.743 | 6.763 | 6.200 | 5.800 | 5.800 | 5.163 | 5.148 | 5.118 | 5.056 | | | | | | | | | | | | | | |
| EXISTING SURFACE | 4.918 | 4.945 | 4.993 | 5.005 | 5.101 | 4.794 | 4.788 | 4.833 | 4.946 | 5.056 | 4.955 | 4.957 | 4.940 | | | | | | | | | | | |
| OFFSET | -40.000 | -38.867 | -36.867 | -36.367 | -32.367 | -8.294 | -4.294 | -3.694 | -2.494 | 0.000 | 1.400 | 3.400 | 5.000 | | | | | | | | | | | |

LOT 1207 CH 258.608




DATUM3.0

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | 1.442 | 1.809 | 1.808 | 1.139 | 0.642 | 0.918 | 0.224 | 0.186 | 0.122 | 0.000 | | | | | | | | | | | | | | |
| DESIGN SURFACE | 6.463 | 6.837 | 6.857 | 6.200 | 5.800 | 5.800 | 5.175 | 5.160 | 5.130 | 5.067 | | | | | | | | | | | | | | |
| EXISTING SURFACE | 5.021 | 5.028 | 5.050 | 5.061 | 5.158 | 4.882 | 4.950 | 4.973 | 5.008 | 5.067 | 4.963 | 4.961 | 4.960 | | | | | | | | | | | |
| OFFSET | -40.000 | -38.877 | -36.877 | -36.377 | -32.377 | -8.304 | -4.304 | -3.704 | -2.504 | 0.000 | 1.400 | 3.400 | 5.000 | | | | | | | | | | | |

LOT 1206 CH 248.595

ASHFORD AVENUE - ROAD CROSS SECTIONS

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

HORIZ. 1:100 0 1 2 4 6
VERT. 1:50 0 0.5 1 2 3
SCALE AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | L.S |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: ROAD CROSS SECTIONS STAGE 1 - ASHFORD AVENUE (SHEET 6 OF 6)

Sheet 46 of 162

Scale 1:100 H 1:50 V @ A1

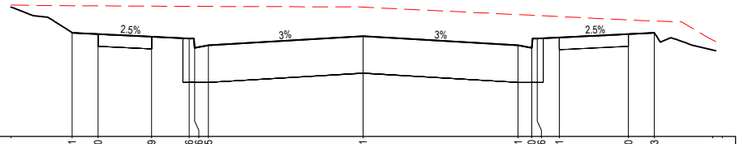
| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 205 | B |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-200-RXS.dwg

LEGEND

EXISTING SURFACE

DESIGN SURFACE



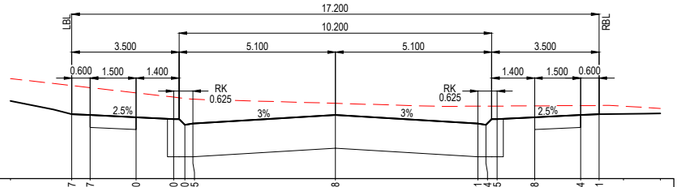

DATUM11.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



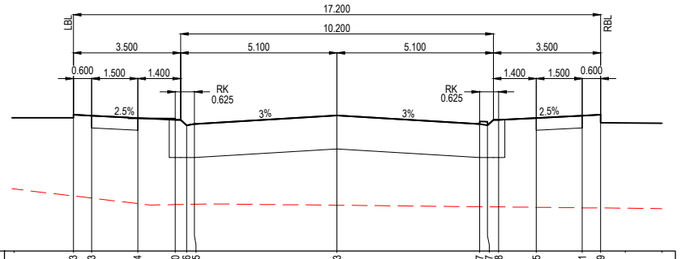

DATUM10.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



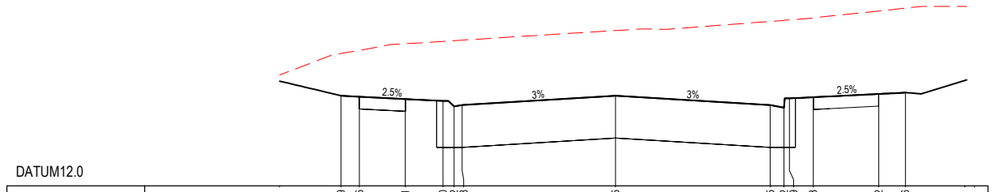

DATUM6.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



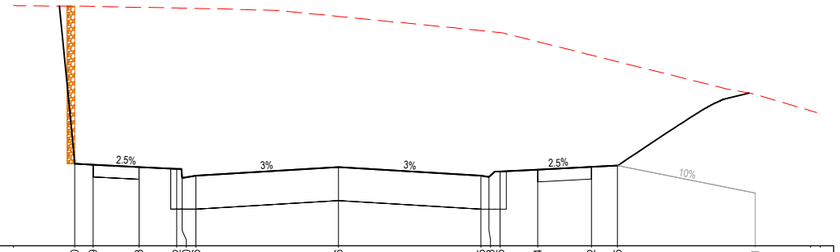

DATUM12.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



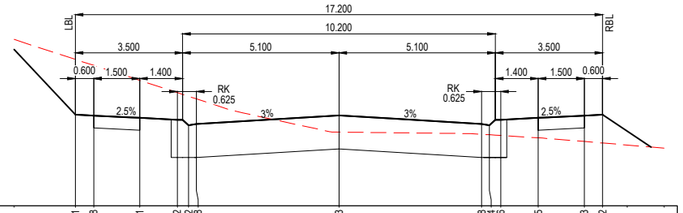

DATUM14.0

| | | |

LEGEND

EXISTING SURFACE

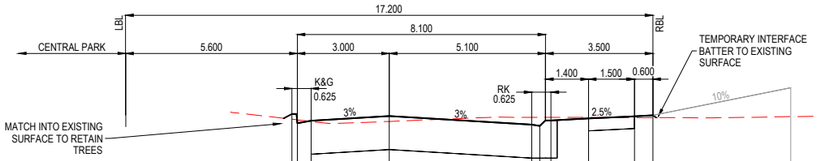
DESIGN SURFACE




DATUM13.0

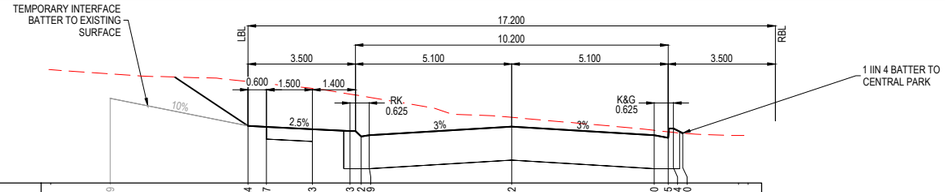
| | | |

LEGEND
EXISTING SURFACE
DESIGN SURFACE




DATUM16.0

| | | |


TEMPORARY INTERFACE BATTER TO EXISTING SURFACE
LBL
RBL
17.200
10.200
3.500
5.100
5.100
3.500
0.600
1.500
1.400
RK 0.625
K&G 0.625
1 IIN 4 BATTER TO CENTRAL PARK
10%
2.5%
3%
3%

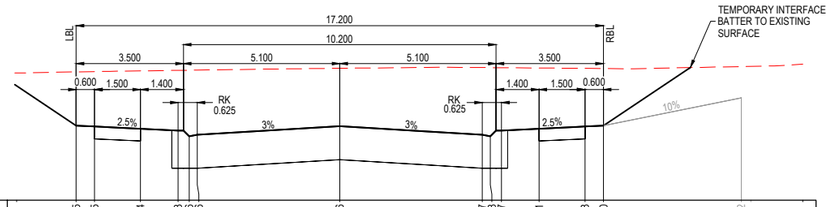
DATUM16.0

| | | |

LEGEND

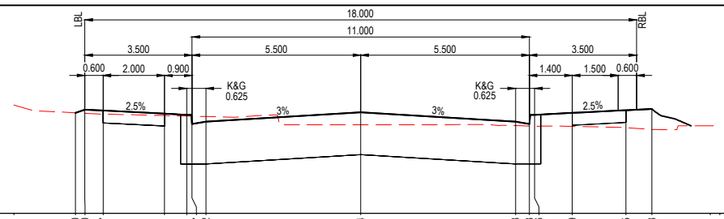
EXISTING SURFACE

DESIGN SURFACE




DATUM11.0

| | | |


LBL
RBL
18.000
11.000
3.500
5.500
5.500
3.500
0.600
2.000
0.900
1.400
1.500
0.600
K&G
0.625
K&G
0.625
2.5%
3%
3%
2.5%

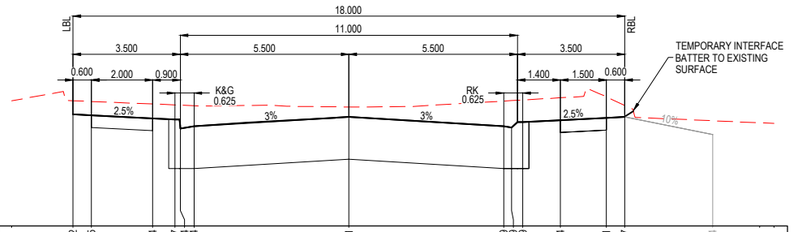
DATUM19.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



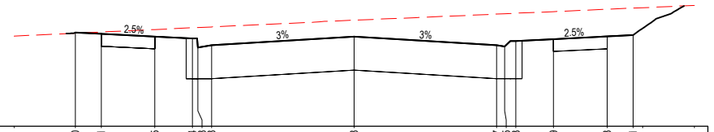

DATUM20.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



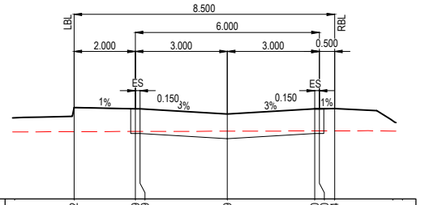

DATUM19.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



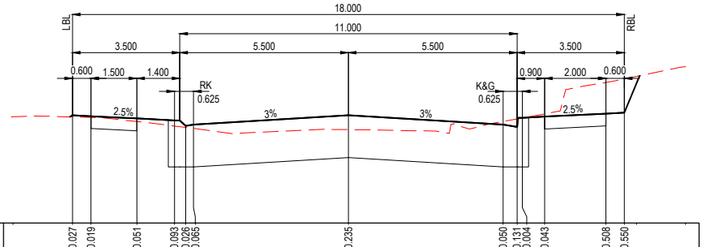

DATUM19.0

| | | |

LEGEND

EXISTING SURFACE

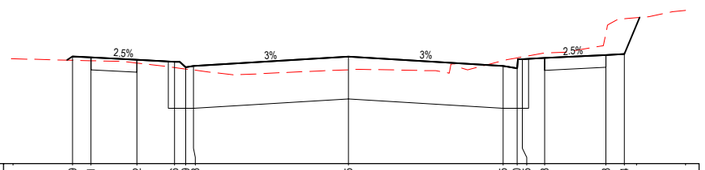
DESIGN SURFACE




DATUM18.0

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | | | 0.027 | 0.019 | 0.051 | 0.093 | 0.026 | 0.065 | 0.235 | | | -0.050 | -0.131 | 0.004 | -0.043 | | | -0.508 | -0.550 | | | |
| DESIGN SURFACE | | | 19.756 | 19.741 | 19.704 | 19.673 | 19.583 | 19.605 | 19.757 | | | 19.605 | 19.565 | 19.715 | 19.733 | | | 19.783 | 19.798 | | | |
| EXISTING SURFACE | 19.732 | | 19.729 | 19.722 | 19.653 | 19.581 | 19.557 | 19.541 | 19.522 | | | 19.655 | 19.696 | 19.711 | 19.776 | | | 20.291 | 20.349 | 20.391 | | 20.549 |
| OFFSET | -11.000 | | -9.000 | -8.400 | -6.900 | -5.675 | -5.309 | -5.050 | 0.000 | | | 5.050 | 5.500 | 5.675 | 6.400 | | | 8.400 | 9.000 | 9.400 | | 11.000 |

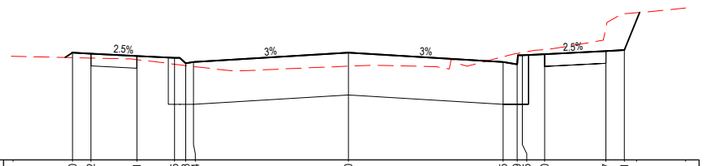
CH 20.000




DATUM18.0

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | | | 0.059 | 0.051 | 0.052 | 0.096 | 0.029 | 0.068 | 0.215 | | | -0.085 | -0.170 | -0.035 | -0.078 | | | -0.358 | -0.574 | | | |
| DESIGN SURFACE | | | 19.744 | 19.729 | 19.692 | 19.661 | 19.571 | 19.583 | 19.745 | | | 19.583 | 19.553 | 19.703 | 19.721 | | | 19.771 | 19.786 | | | |
| EXISTING SURFACE | 19.709 | | 19.685 | 19.678 | 19.639 | 19.565 | 19.542 | 19.525 | 19.530 | | | 19.678 | 19.723 | 19.739 | 19.800 | | | 20.129 | 20.360 | 20.378 | | 20.497 |
| OFFSET | -11.000 | | -9.000 | -8.400 | -6.900 | -5.675 | -5.309 | -5.050 | 0.000 | | | 5.050 | 5.500 | 5.675 | 6.400 | | | 8.400 | 9.000 | 9.400 | | 11.000 |

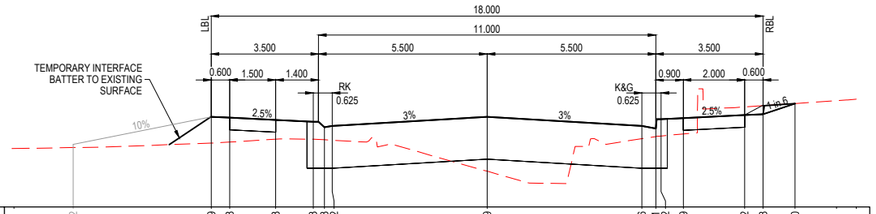
SAG CH 17.550




DATUM18.0

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | | | 0.080 | 0.072 | 0.061 | 0.105 | 0.038 | 0.074 | 0.220 | | | -0.095 | -0.179 | -0.045 | -0.070 | | | -0.387 | -0.591 | | | |
| DESIGN SURFACE | | | 19.747 | 19.732 | 19.694 | 19.663 | 19.573 | 19.595 | 19.747 | | | 19.595 | 19.555 | 19.705 | 19.724 | | | 19.774 | 19.789 | | | |
| EXISTING SURFACE | 19.690 | | 19.667 | 19.660 | 19.633 | 19.559 | 19.536 | 19.521 | 19.527 | | | 19.680 | 19.734 | 19.750 | 19.794 | | | 20.160 | 20.379 | 20.397 | | 20.475 |
| OFFSET | -11.000 | | -9.000 | -8.400 | -6.900 | -5.675 | -5.309 | -5.050 | 0.000 | | | 5.050 | 5.500 | 5.675 | 6.400 | | | 8.400 | 9.000 | 9.400 | | 11.000 |

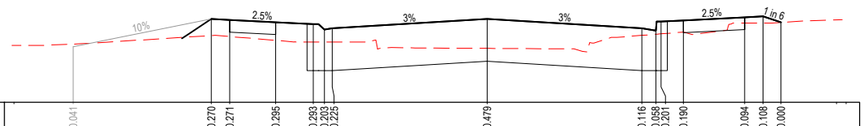
CH 16.504




DATUM19.0

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | | 0.052 | | | 0.429 | 0.398 | 0.313 | 0.283 | 0.232 | 0.232 | 0.889 | | | 0.206 | 0.131 | 0.272 | 0.259 | | -0.132 | -0.138 | 0.000 | |
| DESIGN SURFACE | | 20.022 | | | 20.472 | 20.457 | 20.419 | 20.389 | 20.339 | 20.331 | 20.472 | | | 20.321 | 20.281 | 20.431 | 20.449 | | 20.499 | 20.514 | 20.688 | |
| EXISTING SURFACE | 19.953 | 19.969 | | | 20.043 | 20.059 | 20.106 | 20.105 | 20.089 | 20.089 | 19.583 | | | 20.115 | 20.150 | 20.159 | 20.190 | | 20.631 | 20.652 | 20.688 | 20.734 | 20.757 |
| OFFSET | -15.500 | -13.500 | | | -9.000 | -8.400 | -6.900 | -5.675 | -5.309 | -5.050 | 0.000 | | | 5.050 | 5.500 | 5.675 | 6.400 | | 8.400 | 9.000 | 10.043 | 11.400 | 12.043 |

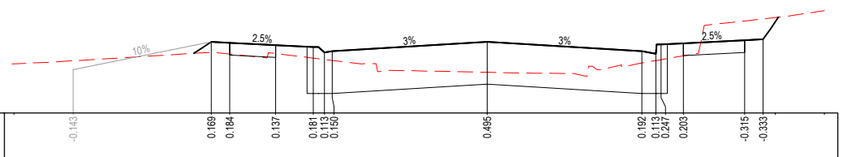
CREST CH 97.799




DATUM19.0

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | | -0.041 | | | 0.270 | 0.271 | 0.295 | 0.293 | 0.225 | 0.223 | 0.479 | | | 0.116 | 0.058 | 0.201 | 0.190 | | 0.094 | 0.108 | 0.000 | |
| DESIGN SURFACE | | 19.906 | | | 20.356 | 20.341 | 20.304 | 20.273 | 20.205 | 20.205 | 20.357 | | | 20.205 | 20.165 | 20.315 | 20.333 | | 20.383 | 20.398 | 20.301 | |
| EXISTING SURFACE | 19.927 | 19.947 | | | 20.086 | 20.071 | 20.008 | 19.980 | 19.980 | 19.981 | 19.878 | | | 20.089 | 20.107 | 20.115 | 20.144 | | 20.289 | 20.290 | 20.301 | | 20.341 20.344 |
| OFFSET | -15.500 | -13.500 | | | -9.000 | -8.400 | -6.900 | -5.675 | -5.309 | -5.050 | 0.000 | | | 5.050 | 5.500 | 5.675 | 6.400 | | 8.400 | 9.000 | 9.585 | | 11.400 11.585 |

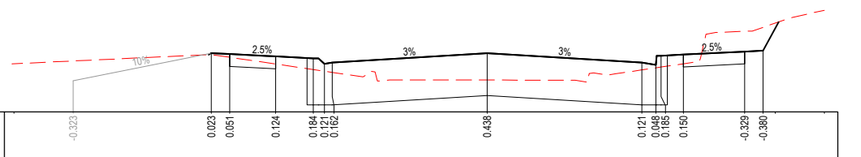
CH 80.000




DATUM19.0

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | | -0.143 | | | 0.169 | 0.184 | 0.137 | 0.181 | 0.153 | 0.159 | 0.495 | | | 0.192 | 0.113 | 0.247 | 0.203 | | -0.315 | -0.333 | | |
| DESIGN SURFACE | | 19.706 | | | 20.156 | 20.141 | 20.104 | 20.073 | 20.005 | 20.005 | 20.157 | | | 20.005 | 19.965 | 20.115 | 20.133 | | 20.183 | 20.198 | | |
| EXISTING SURFACE | 19.797 | 19.849 | | | 19.987 | 19.957 | 19.967 | 19.893 | 19.870 | 19.855 | 19.662 | | | 19.814 | 19.853 | 19.868 | 19.930 | | 20.499 | 20.531 | 20.553 | | 20.667 |
| OFFSET | -15.500 | -13.500 | | | -9.000 | -8.400 | -6.900 | -5.675 | -5.309 | -5.050 | 0.000 | | | 5.050 | 5.500 | 5.675 | 6.400 | | 8.400 | 9.000 | 9.400 | | 11.000 |

CH 60.000




DATUM19.0

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | | -0.323 | | | 0.023 | 0.051 | 0.124 | 0.184 | 0.162 | 0.162 | 0.438 | | | 0.121 | 0.048 | 0.185 | 0.150 | | -0.329 | -0.380 | | |
| DESIGN SURFACE | | 19.506 | | | 19.956 | 19.941 | 19.904 | 19.873 | 19.805 | 19.805 | 19.957 | | | 19.805 | 19.765 | 19.915 | 19.933 | | 19.983 | 19.998 | | |
| EXISTING SURFACE | 19.783 | 19.830 | | | 19.934 | 19.890 | 19.779 | 19.689 | 19.687 | 19.643 | 19.518 | | | 19.684 | 19.717 | 19.730 | 19.784 | | 20.312 | 20.378 | 20.446 | | 20.656 |
| OFFSET | -15.500 | -13.500 | | | -9.000 | -8.400 | -6.900 | -5.675 | -5.309 | -5.050 | 0.000 | | | 5.050 | 5.500 | 5.675 | 6.400 | | 8.400 | 9.000 | 9.400 | | 11.000 |

CH 40.000

ROAD 9 - ROAD CROSS SECTIONS

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

HORIZ. 1:100 0 1 2 4 6

VERT. 1:50 0 0.5 1 2 3

SCALE AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | L.S |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: ROAD CROSS SECTIONS STAGE 3 - ROAD 9 (SHEET 1 OF 2)

Sheet 60 of 162

Scale 1:100 H 1:50 V @ A1

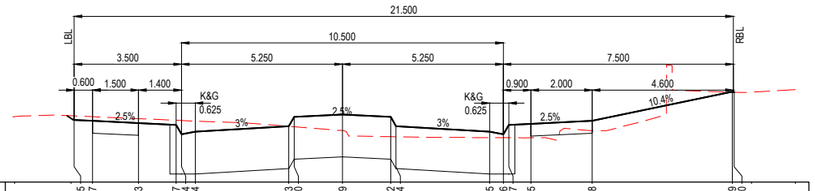
| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 219 | B |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-200-RXS.dwg

LEGEND

EXISTING SURFACE

DESIGN SURFACE



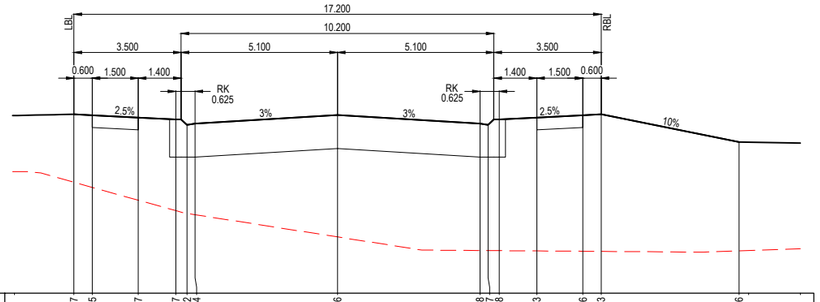

DATUM19.0

| | | |

LEGEND

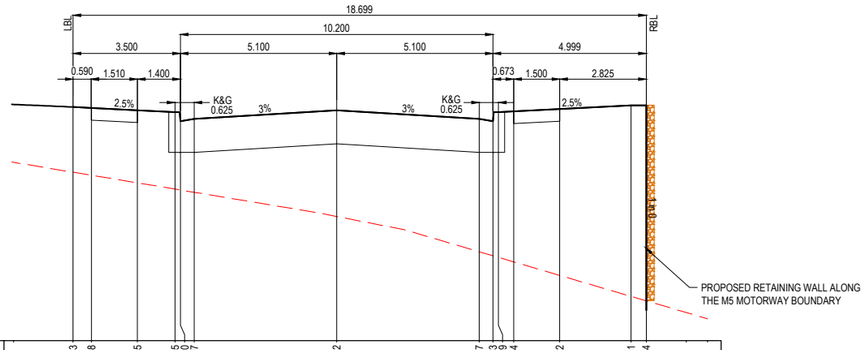
EXISTING SURFACE

DESIGN SURFACE




DATUM5.0

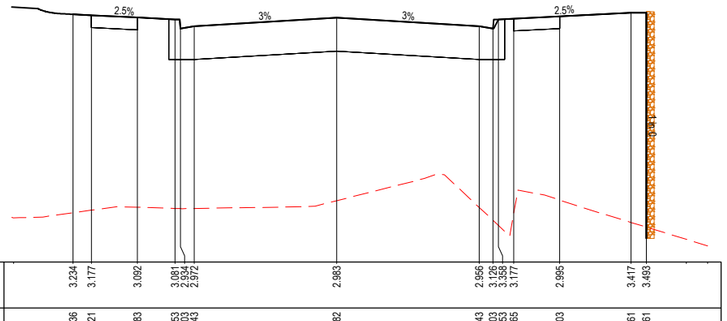
| | | |




DATUM3.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | | | 1.063 | 1.098 | 1.185 | 1.255 | 1.250 | 1.197 | 1.732 | | | 2.167 | 2.093 | 2.369 | 2.454 | 2.712 | | | 3.111 | 3.184 | | | |
| DESIGN SURFACE | | | 6.809 | 6.794 | 6.757 | 6.726 | 6.676 | 6.616 | 6.756 | | | 6.616 | 6.576 | 6.739 | 6.739 | 6.776 | | | 6.834 | 6.834 | | | |
| EXISTING SURFACE | 5.912 | | 5.746 | 5.697 | 5.572 | 5.471 | 5.426 | 5.419 | 5.024 | | | 4.449 | 4.393 | 4.384 | 4.284 | 4.064 | | | 3.723 | 3.650 | 3.459 | 3.356 | |
| OFFSET | -10.600 | | -8.600 | -8.000 | -6.500 | -5.275 | -5.100 | -4.650 | 0.000 | | | 4.650 | 5.100 | 5.275 | 5.773 | 7.273 | | | 9.600 | 10.099 | 11.400 | 12.100 | |

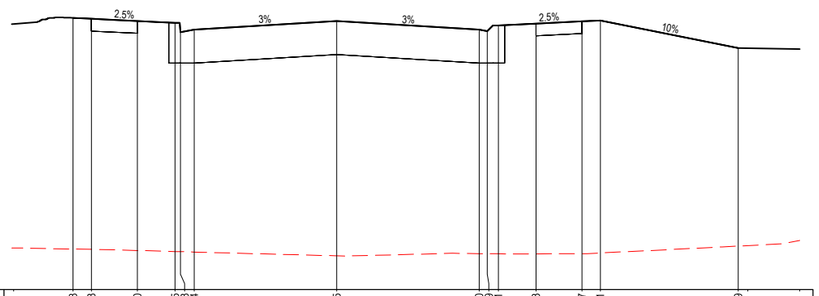
CH 320.000




DATUM3.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | | | 3.234 | 3.177 | 3.092 | 3.081 | 3.044 | 2.972 | 2.983 | | | 2.956 | 3.138 | 3.177 | 3.177 | 2.995 | | | 3.417 | 3.493 | | | |
| DESIGN SURFACE | | | 7.036 | 7.021 | 6.983 | 6.953 | 6.893 | 6.843 | 6.982 | | | 6.843 | 6.953 | 6.965 | 6.965 | 7.003 | | | 7.061 | 7.061 | | | |
| EXISTING SURFACE | 3.726 | | 3.802 | 3.844 | 3.891 | 3.871 | 3.849 | 3.871 | 3.999 | | | 3.887 | 3.815 | 3.787 | 3.789 | 4.008 | | | 3.644 | 3.568 | 3.369 | 3.263 | |
| OFFSET | -10.600 | | -8.600 | -8.000 | -6.500 | -5.275 | -5.100 | -4.650 | 0.000 | | | 4.650 | 5.100 | 5.275 | 5.774 | 7.274 | | | 9.600 | 10.099 | 11.400 | 12.100 | |

LTP CH 297.340

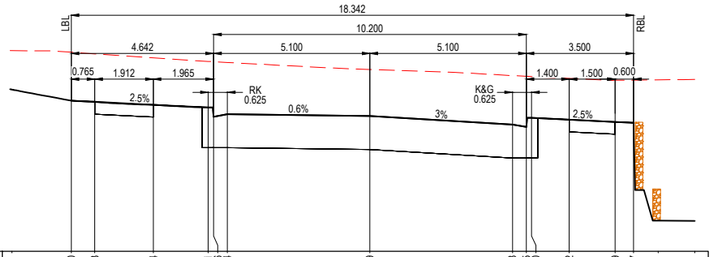



DATUM3.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | | | 3.768 | 3.758 | 3.740 | 3.725 | 3.693 | 3.624 | 3.825 | | | 3.650 | 3.629 | 3.721 | 3.753 | 3.787 | 3.791 | | 3.229 | | | | |
| DESIGN SURFACE | | | 7.430 | 7.415 | 7.378 | 7.347 | 7.317 | 7.297 | 7.377 | | | 7.237 | 7.215 | 7.305 | 7.336 | 7.373 | 7.388 | | 6.938 | | | | |
| EXISTING SURFACE | 3.681 | | 3.663 | 3.657 | 3.638 | 3.622 | 3.619 | 3.613 | 3.552 | | | 3.588 | 3.586 | 3.584 | 3.583 | 3.586 | 3.597 | | 3.709 | 3.717 | | 3.803 | |
| OFFSET | -10.600 | | -8.600 | -8.000 | -6.500 | -5.275 | -5.100 | -4.650 | 0.000 | | | 4.650 | 4.999 | 5.275 | 6.500 | 8.000 | 8.600 | | 13.100 | 13.400 | | 15.100 | |

LTP CH 272.723

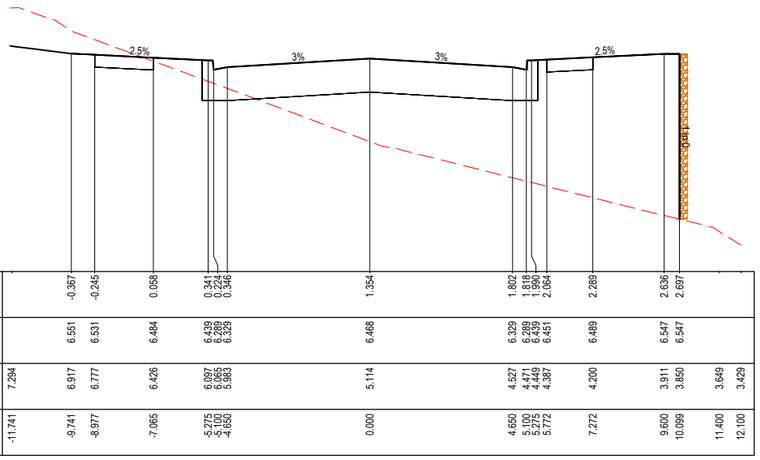
ROAD 2A - ROAD CROSS SECTIONS




DATUM4.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | | | -0.790 | -0.783 | -0.764 | -0.751 | -0.886 | -0.844 | -0.759 | | | -0.798 | -0.825 | -0.670 | -0.672 | -0.679 | -0.697 | | | | | | |
| DESIGN SURFACE | | | 6.457 | 6.437 | 6.390 | 6.345 | 6.195 | 6.235 | 6.207 | | | 6.068 | 6.028 | 6.178 | 6.147 | 6.109 | 6.094 | | | | | | |
| EXISTING SURFACE | 7.272 | | 7.247 | 7.220 | 7.154 | 7.096 | 7.091 | 7.079 | 6.966 | | | 6.866 | 6.853 | 6.848 | 6.819 | 6.789 | 6.792 | | 6.796 | | | 6.802 | |
| OFFSET | -11.742 | | -9.742 | -8.977 | -7.965 | -5.275 | -5.100 | -4.650 | 0.000 | | | 4.650 | 5.100 | 5.275 | 6.500 | 8.000 | 8.600 | | 9.400 | | | 10.600 | |

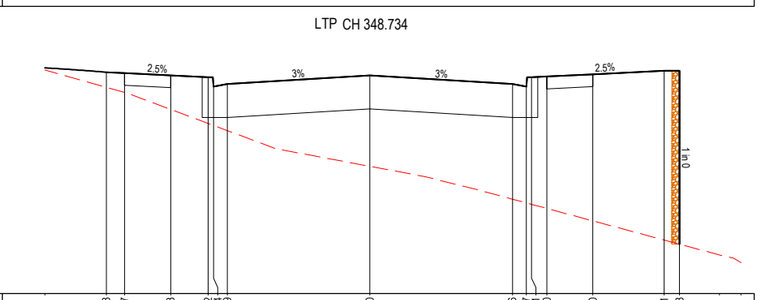
LTP CH 366.581




DATUM3.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | | | -0.367 | -0.245 | 0.058 | 0.341 | 0.224 | 0.346 | 1.354 | | | 1.802 | 1.818 | 1.990 | 2.064 | 2.289 | | | 2.636 | 2.697 | | | |
| DESIGN SURFACE | | | 6.551 | 6.531 | 6.484 | 6.439 | 6.289 | 6.329 | 6.468 | | | 6.329 | 6.289 | 6.439 | 6.451 | 6.489 | | | 6.547 | 6.547 | | | |
| EXISTING SURFACE | 7.294 | | 6.917 | 6.777 | 6.426 | 6.097 | 6.065 | 5.983 | 5.114 | | | 4.527 | 4.471 | 4.449 | 4.387 | 4.200 | | | 3.911 | 3.850 | 3.649 | 3.429 | |
| OFFSET | -11.741 | | -9.741 | -8.977 | -7.065 | -5.275 | -5.100 | -4.650 | 0.000 | | | 4.650 | 5.100 | 5.275 | 5.772 | 7.272 | | | 9.600 | 10.099 | 11.400 | 12.100 | |

LTP CH 348.734




DATUM3.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | | | 0.248 | 0.317 | 0.553 | 0.752 | 0.634 | 0.759 | 1.480 | | | 1.876 | 1.897 | 2.071 | 2.150 | 2.390 | | | 2.761 | 2.828 | | | |
| DESIGN SURFACE | | | 6.609 | 6.594 | 6.557 | 6.526 | 6.376 | 6.416 | 6.556 | | | 6.416 | 6.376 | 6.526 | 6.539 | 6.576 | | | 6.634 | 6.634 | | | |
| EXISTING SURFACE | 6.644 | | 6.362 | 6.277 | 6.004 | 5.775 | 5.742 | 5.668 | 5.075 | | | 4.540 | 4.479 | 4.456 | 4.389 | 4.187 | | | 3.873 | 3.806 | 3.631 | 3.503 | |
| OFFSET | -10.600 | | -8.600 | -8.000 | -6.500 | -5.275 | -5.100 | -4.650 | 0.000 | | | 4.650 | 5.100 | 5.275 | 5.773 | 7.273 | | | 9.600 | 10.099 | 11.400 | 12.100 | |

CH 340.000

LEGEND

EXISTING SURFACE

DESIGN SURFACE

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

HORIZ. 1:100 0 1 2 4 6
VERT. 1:50 0 0.5 1 2 3
SCALE AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | L.S |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2 & 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | ROAD CROSS SECTIONS<br>STAGE 4 - ROAD 2A<br>(SHEET 2 OF 4) |

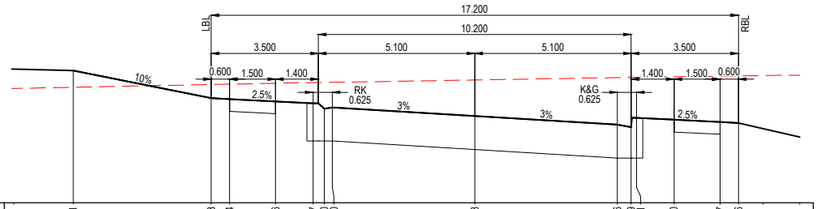
| Sheet | 63 of 162 | | |
|---|---|---|---|
| Scale | 1:100 H 1:50 V @ A1 | | |
| Project Ref | Stage No | Drawing No | Rev |
| 2301879 | 321 | 222 | B |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-200-RXS.dwg

LEGEND

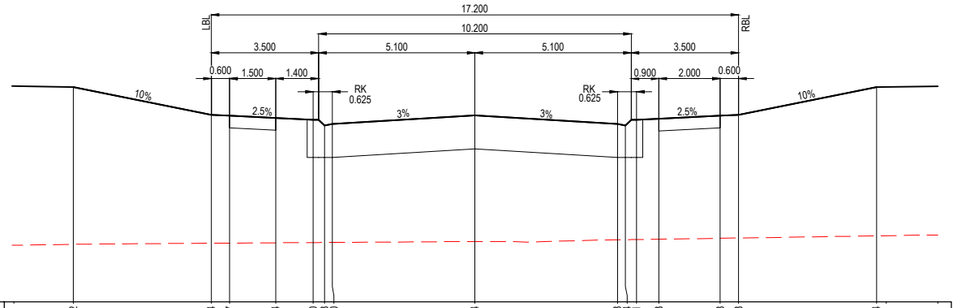
EXISTING SURFACE

DESIGN SURFACE




DATUM5.0

| | | |


17.200
10.200
LBL
RBL
3.500
5.100
5.100
3.500
0.600
1.500
1.400
0.900
2.000
0.600
RK
0.625
RK
0.625
10%
2.5%
3%
3%
2.5%
10%

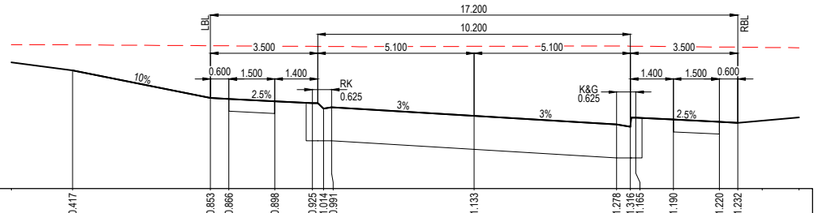
DATUM6.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



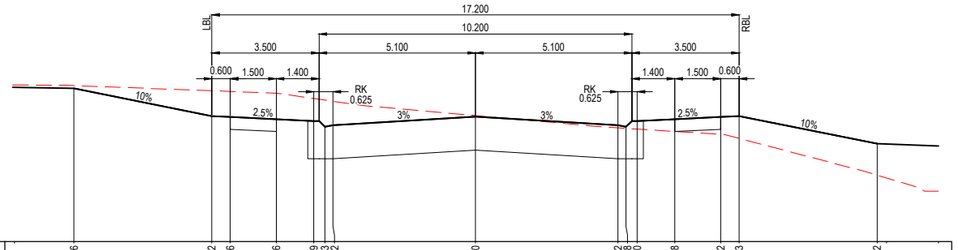

DATUM5.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



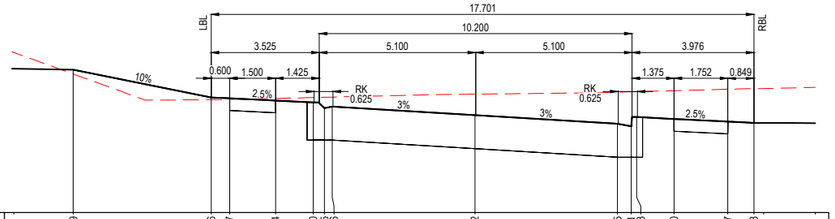

DATUM11.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



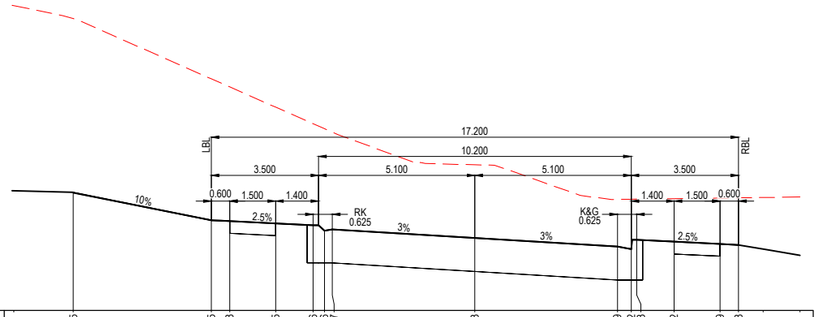

DATUM5.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



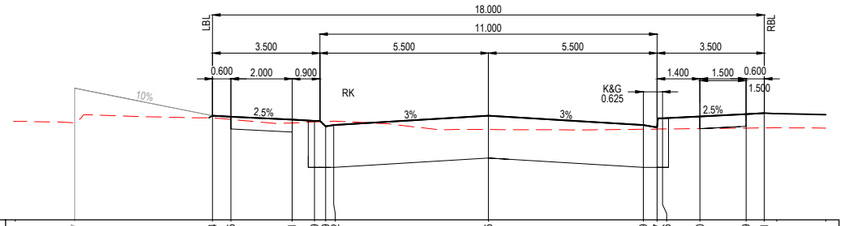

DATUM5.0

| | | |

LEGEND

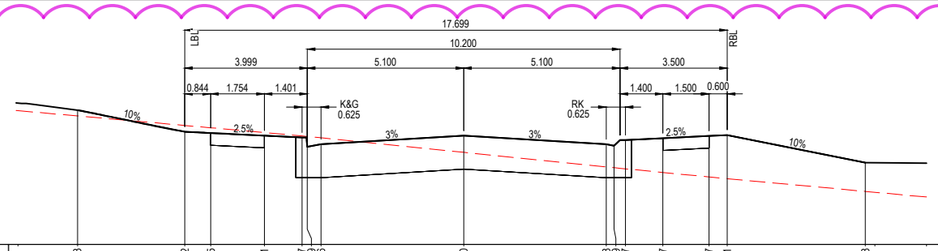
EXISTING SURFACE

DESIGN SURFACE




DATUM18.0

| | | |


LBL
RBL
17.699
10.200
3.999
5.100
5.100
3.500
0.844
1.754
1.401
K&G
0.625
RK
0.625
1.400
1.500
0.600
10%
2.5%
3%
3%
2.5%
10%

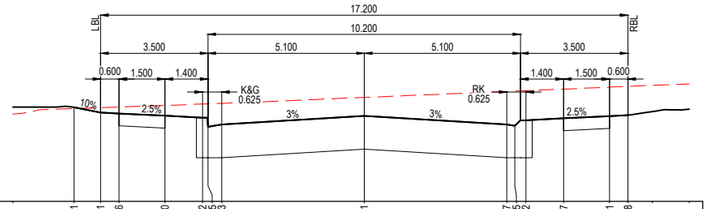
DATUM14.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



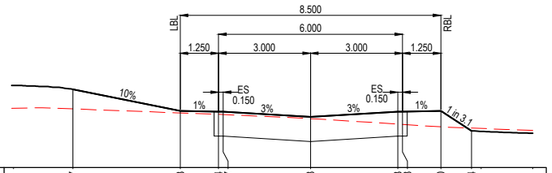

DATUM19.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



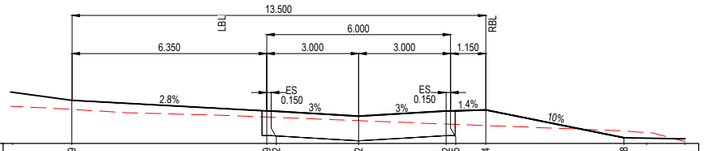

DATUM19.0

| | | |

LEGEND

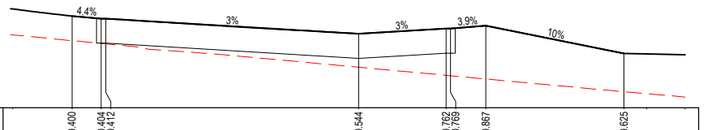
EXISTING SURFACE

DESIGN SURFACE



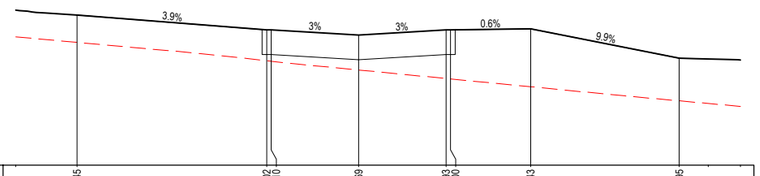

| DATUM16.0 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | | 0.149 | | 0.099<br>0.102 | 0.072 | 0.212<br>0.215 | 0.254 | | -0.108 | | | |
| DESIGN SURFACE | | 16.702 | | 16.527<br>16.527 | 16.441 | 16.527<br>16.527 | 16.543 | | 16.093 | | | |
| EXISTING SURFACE | 16.604 | 16.554 | | 16.428<br>16.425 | 16.370 | 16.315<br>16.312 | 16.290 | | 16.202 | 16.174 | | 16.027 |
| OFFSET | -11.352 | -9.352 | | -3.000<br>-2.850 | 0.000 | 2.850<br>3.000 | 4.150 | | 8.650 | 9.400 | | 10.650 |

CH 40.964




| DATUM15.0 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | | 0.400 | 0.404<br>0.412 | | 0.544 | 0.762<br>0.769 | 0.867 | | 0.625 | | | |
| DESIGN SURFACE | | 16.493 | 16.451<br>16.451 | | 16.203 | 16.289<br>16.289 | 16.334 | | 15.884 | | | |
| EXISTING SURFACE | 16.189 | 16.092 | 16.046<br>16.039 | | 15.659 | 15.527<br>15.520 | 15.467 | | 15.259 | 15.227 | | 15.174 |
| OFFSET | -11.350 | -9.350 | -8.400<br>-8.250 | | 0.000 | 2.850<br>3.000 | 4.150 | | 8.650 | 9.400 | | 10.650 |

CH 20.000




| DATUM14.0 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | | 0.445 | | 0.502<br>0.510 | 0.569 | 0.793<br>0.800 | 0.943 | | 0.695 | | | |
| DESIGN SURFACE | | 16.448 | | 16.207<br>16.207 | 16.121 | 16.207<br>16.207 | 16.223 | | 15.746 | | | |
| EXISTING SURFACE | 16.092 | 16.003 | | 15.705<br>15.697 | 15.552 | 15.414<br>15.407 | 15.280 | | 15.050 | 15.007 | | 14.959 |
| OFFSET | -11.188 | -9.188 | | -3.000<br>-2.850 | 0.000 | 2.850<br>3.000 | 5.611 | | 10.454 | 11.400 | | 12.454 |

CH 12.782

LANE 2 - ROAD CROSS SECTIONS

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

HORIZ. 1:100 0 1 2 4 6

VERT. 1:50 0 0.5 1 2 3

SCALE AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | L.S |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: ROAD CROSS SECTIONS STAGE 5 - LANE 2

Sheet 74 of 162

Scale 1:100 H 1:50 V @ A1

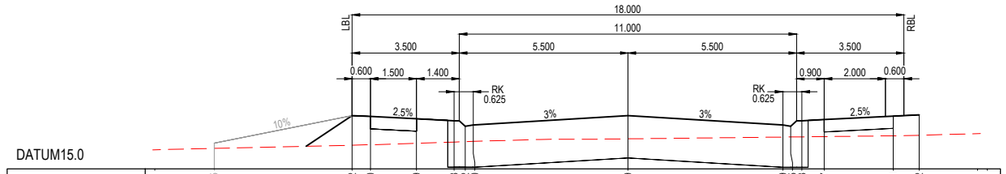
| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 233 | B |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-200-RXS.dwg

LEGEND

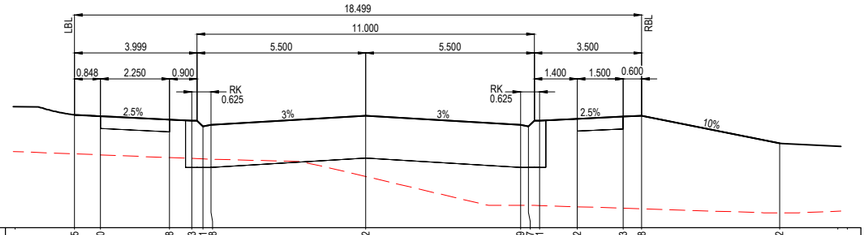
EXISTING SURFACE

DESIGN SURFACE




DATUM15.0

| | | |


18.499
11.000
LBL
RBL
3.999
5.500
5.500
3.500
0.848
2.250
0.900
1.400
1.500
0.600
RK 0.625
RK 0.625
2.5%
3%
3%
2.5%
10%

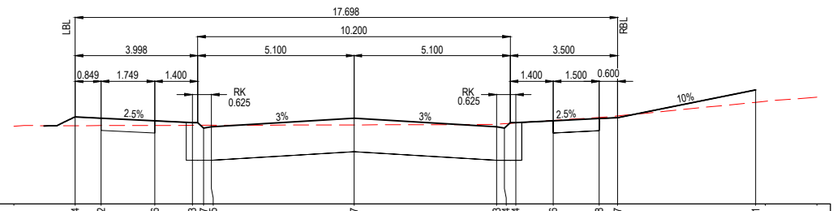
DATUM16.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



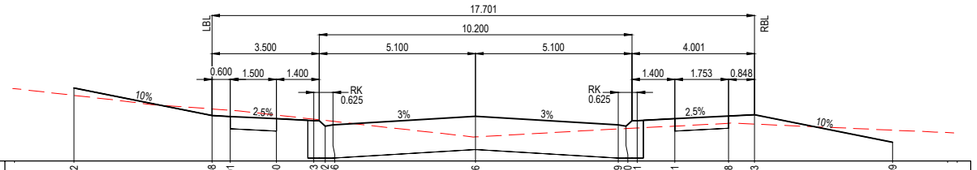

DATUM14.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



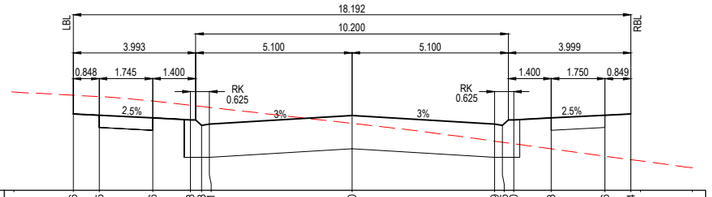

DATUM17.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



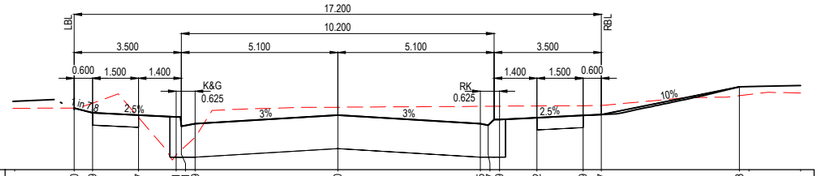

DATUM17.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



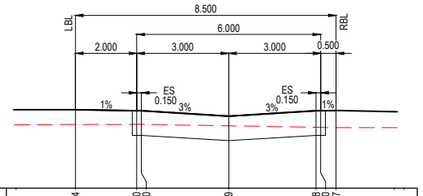

DATUM14.0

| | | |

LEGEND

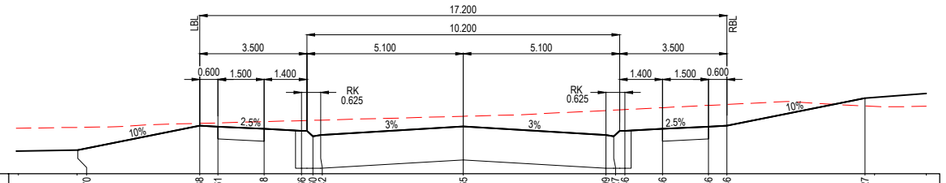
EXISTING SURFACE

DESIGN SURFACE




DATUM19.0

| | | |


LBL
RBL
17.200
10.200
3.500
5.100
5.100
3.500
0.600
1.500
1.400
1.400
1.500
0.600
RK 0.625
RK 0.625
10%
2.5%
3%
3%
2.5%
10%

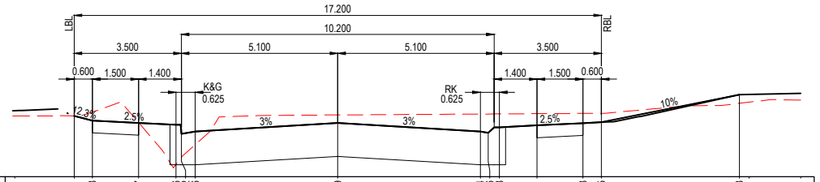
DATUM12.0

| | | |

LEGEND

EXISTING SURFACE

DESIGN SURFACE



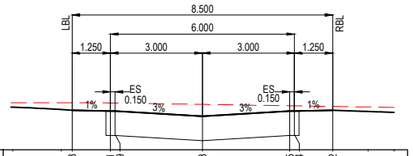

DATUM14.0

| | | |

LEGEND

EXISTING SURFACE

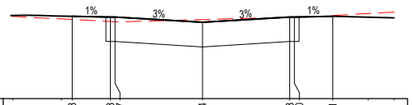
DESIGN SURFACE




DATUM11.0

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | | -0.123 | -0.131<br>-0.129 | -0.193 | -0.085<br>-0.084 | -0.062 | | |
| DESIGN SURFACE | | 11.644 | 11.632<br>11.632 | 11.546 | 11.632<br>11.632 | 11.644 | | |
| EXISTING SURFACE | 11.764 | 11.766<br>11.767 | 11.762<br>11.761 | 11.739 | 11.717<br>11.716 | 11.706 | 11.697 | 11.690 |
| OFFSET | -6.250 | -4.600<br>-4.250 | -3.000<br>-2.850 | 0.000 | 2.850<br>3.000 | 4.250 | 5.400 | 6.250 |

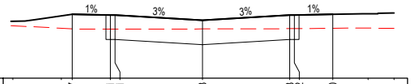
CH 60.000




DATUM11.0

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | | 0.053 | 0.073<br>0.077 | -0.044 | 0.003<br>0.000 | -0.011 | | |
| DESIGN SURFACE | | 12.343 | 12.331<br>12.331 | 12.245 | 12.331<br>12.331 | 12.343 | | |
| EXISTING SURFACE | 12.342 | 12.299<br>12.290 | 12.258<br>12.254 | 12.289 | 12.328<br>12.330 | 12.355 | 12.387 | 12.411 |
| OFFSET | -6.250 | -4.600<br>-4.250 | -3.000<br>-2.850 | 0.000 | 2.850<br>3.000 | 4.250 | 5.400 | 6.250 |

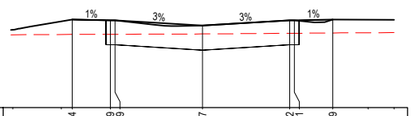
CH 40.000




DATUM12.0

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | | 0.237 | 0.231<br>0.231 | 0.143 | 0.223<br>0.222 | 0.230 | | |
| DESIGN SURFACE | | 13.042 | 13.030<br>13.030 | 12.944 | 13.030<br>13.030 | 13.042 | | |
| EXISTING SURFACE | 12.856 | 12.814<br>12.805 | 12.798<br>12.799 | 12.802 | 12.807<br>12.807 | 12.812 | 12.815 | 12.811 |
| OFFSET | -6.250 | -4.600<br>-4.250 | -3.000<br>-2.850 | 0.000 | 2.850<br>3.000 | 4.250 | 5.400 | 6.250 |

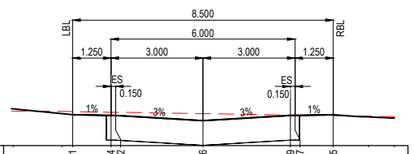
CH 20.000




DATUM12.0

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | | 0.244 | 0.229<br>0.229 | 0.137 | 0.212<br>0.211 | 0.219 | | |
| DESIGN SURFACE | | 13.437 | 13.425<br>13.425 | 13.339 | 13.425<br>13.425 | 13.437 | | |
| EXISTING SURFACE | 13.189 | 13.193<br>13.193 | 13.196<br>13.196 | 13.202 | 13.213<br>13.213 | 13.218 | 13.222 | 13.224 |
| OFFSET | -6.250 | -4.600<br>-4.250 | -3.000<br>-2.850 | 0.000 | 2.850<br>3.000 | 4.250 | 5.400 | 6.250 |

CH 8.702




DATUM11.0

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CUT - / FILL + | | -0.051 | -0.054<br>-0.052 | -0.116 | -0.009<br>-0.007 | 0.015 | | |
| DESIGN SURFACE | | 11.504 | 11.492<br>11.492 | 11.406 | 11.492<br>11.492 | 11.504 | | |
| EXISTING SURFACE | 11.559 | 11.558<br>11.555 | 11.546<br>11.544 | 11.522 | 11.500<br>11.499 | 11.490 | 11.481 | 11.474 |
| OFFSET | -6.250 | -4.600<br>-4.250 | -3.000<br>-2.850 | 0.000 | 2.850<br>3.000 | 4.250 | 5.400 | 6.250 |

CH 63.995

LANE 3 - ROAD CROSS SECTIONS

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

HORIZ. 1:100 0 1 2 4 6
VERT. 1:50 0 0.5 1 2 3
SCALE AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | L.S |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: ROAD CROSS SECTIONS
STAGE 7 - LANE 3

Sheet 84 of 162

Scale: 1:100 H 1:50 V @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 243 | B |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-200-RXS.dwg




LEGEND:

INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| E | RESPONSE TO REQUEST FOR INFORMATION | 10.06.26 | GN | SG |
| D | UPDATED RESPONSE TO SUBMISSIONS | 05.05.26 | GN | SG |
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 15 30 60 90 120
SCALE 1:1500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | L.S |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: OVERALL SIGNAGE & LINE MARKING PLAN

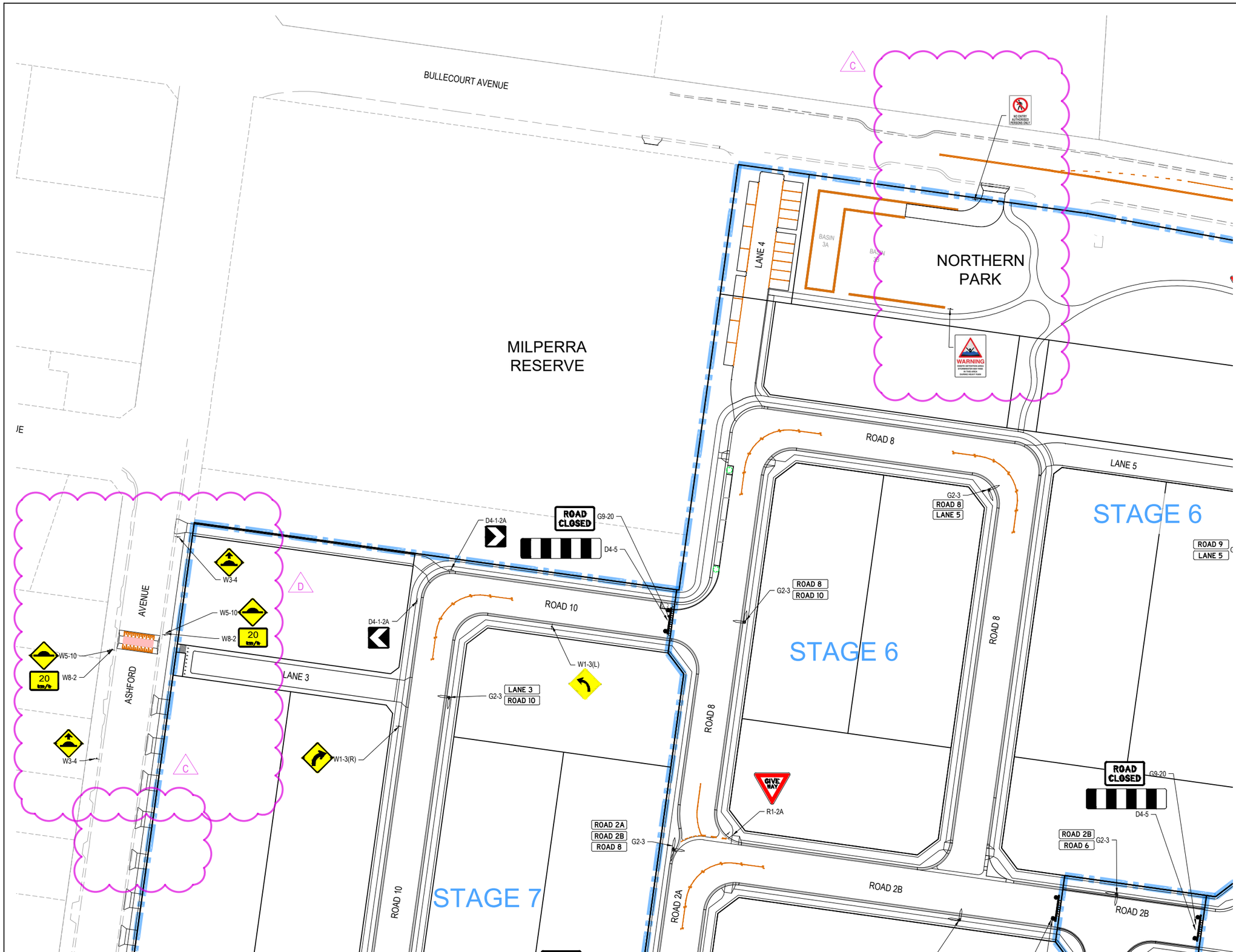
Sheet 85 of 162

Scale 1:1500 @ A1

N

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 250 | E |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-250-LMP.dwg




NOTES

1. LINEMARKING TO BE EXTENDED AT LEAST 6m FROM THE TANGENT POINT
2. LINEMARKING IN ACCORDANCE WITH AS1742.
3. ALL STREET NAME SIGNS AT INTERSECTIONS TO INCLUDE RELEVENT STREET NUMBERING.
4. ALL LINE MARKING PAINT SHALL BE LONG LIFE TYPE. LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGADUR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL.
5. ROAD CLOSED SIGNS ARE TEMPORARY AND TO BE REMOVED AS NEW STAGES ARE CONSTRUCTED

LEGEND:

INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| D | RESPONSE TO REQUEST FOR INFORMATION | 10.06.26 | GN | SG |
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: SIGNAGE & LINE MARKING PLANS
SHEET 1 OF 5

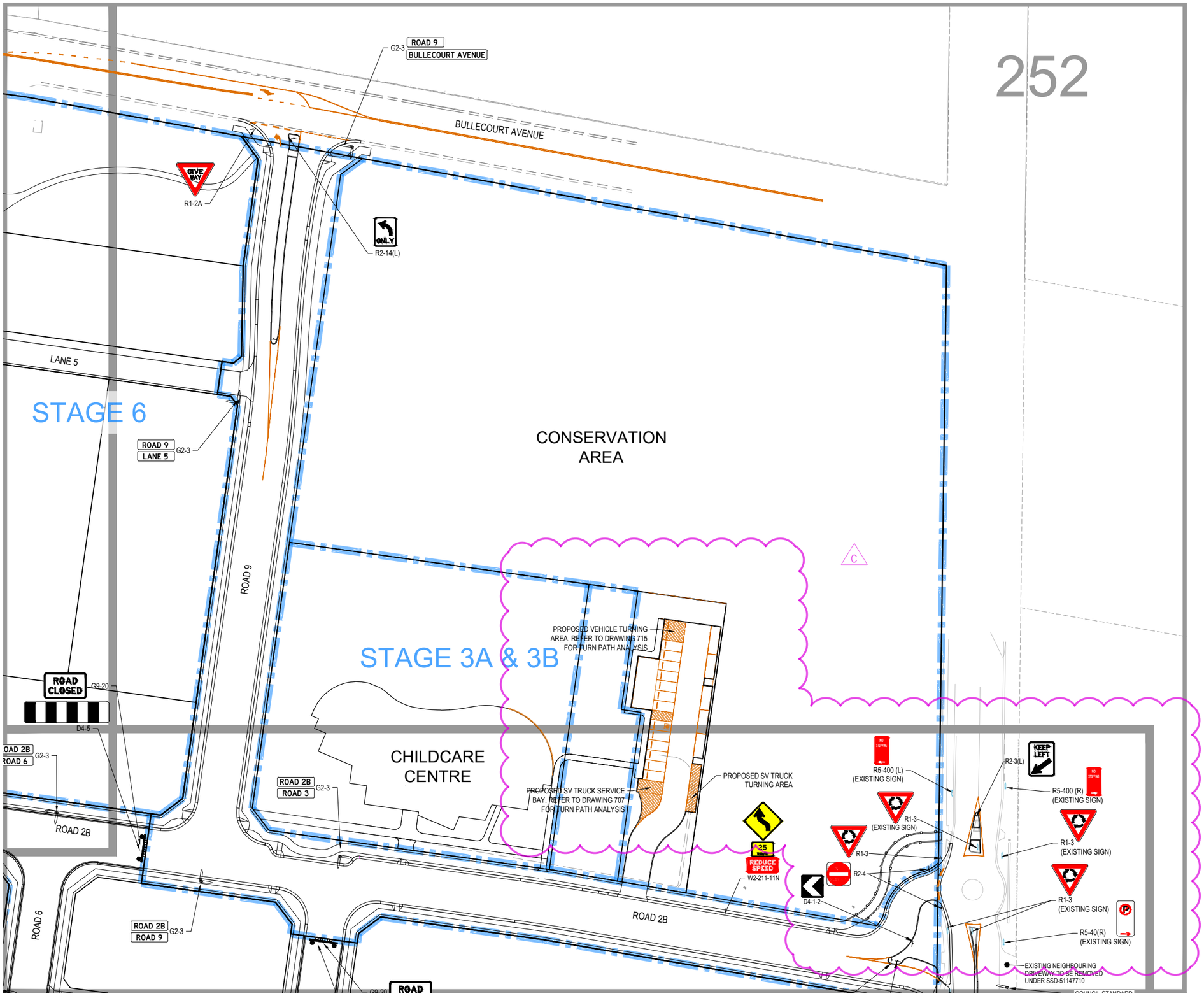
Sheet 86 of 162

Scale 1:500 @ A1

N

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 251 | D |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-250-LMP.dwg




NOTES
1. LINEMARKING TO BE EXTENDED AT LEAST 6m FROM THE TANGENT POINT
2. LINEMARKING IN ACCORDANCE WITH AS1742.
3. ALL STREET NAME SIGNS AT INTERSECTIONS TO INCLUDE RELEVENT STREET NUMBERING.
4. ALL LINE MARKING PAINT SHALL BE LONG LIFE TYPE. LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGADUR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL.
5. ROAD CLOSED SIGNS ARE TEMPORARY AND TO BE REMOVED AS NEW STAGES ARE CONSTRUCTED

LEGEND:

INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| D | UPDATED RESPONSE TO SUBMISSIONS | 05.05.26 | GN | SG |
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

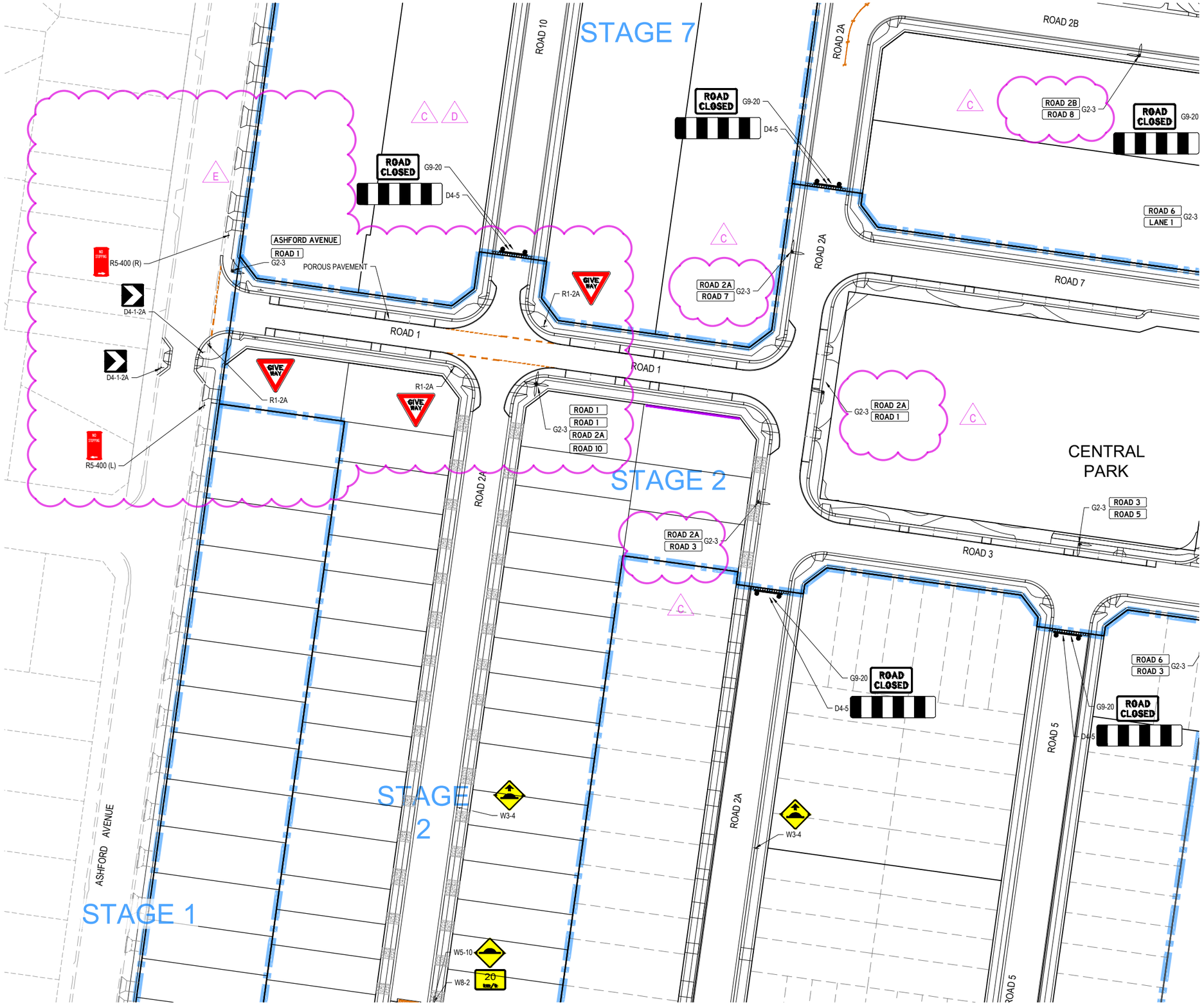
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: SIGNAGE & LINE MARKING PLANS
SHEET 2 OF 5

Sheet 87 of 162
Scale 1:500 @ A1
N

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 252 | D |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-250-LMP.dwg




CENTRAL PARK

NOTES
1. LINEMARKING TO BE EXTENDED AT LEAST 6m FROM THE TANGENT POINT
2. LINEMARKING IN ACCORDANCE WITH AS1742.
3. ALL STREET NAME SIGNS AT INTERSECTIONS TO INCLUDE RELEVENT STREET NUMBERING.
4. ALL LINE MARKING PAINT SHALL BE LONG LIFE TYPE. LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGADUR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL.
5. ROAD CLOSED SIGNS ARE TEMPORARY AND TO BE REMOVED AS NEW STAGES ARE CONSTRUCTED

LEGEND:

INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| E | RESPONSE TO REQUEST FOR INFORMATION | 10.06.26 | GN | SG |
| D | UPDATED RESPONSE TO SUBMISSIONS | 05.05.26 | GN | SG |
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: SIGNAGE & LINE MARKING PLANS
SHEET 3 OF 5

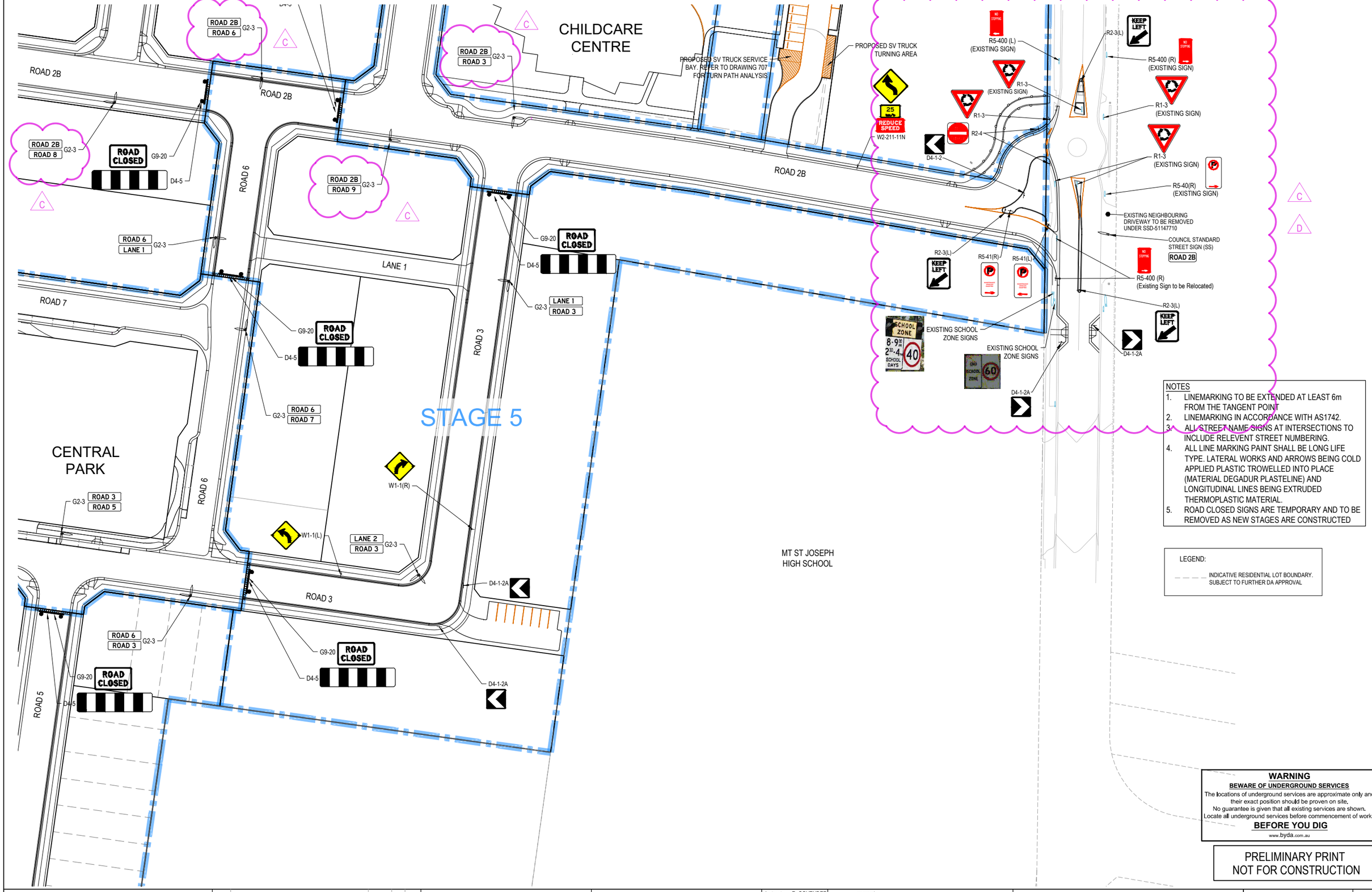
Sheet 88 of 162

Scale 1:500 @ A1

N

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 253 | E |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-250-LMP.dwg




NOTES

1. LINEMARKING TO BE EXTENDED AT LEAST 6m FROM THE TANGENT POINT
2. LINEMARKING IN ACCORDANCE WITH AS1742.
3. ALL STREET NAME SIGNS AT INTERSECTIONS TO INCLUDE RELEVENT STREET NUMBERING.
4. ALL LINE MARKING PAINT SHALL BE LONG LIFE TYPE. LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGADUR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL.
5. ROAD CLOSED SIGNS ARE TEMPORARY AND TO BE REMOVED AS NEW STAGES ARE CONSTRUCTED

LEGEND:

INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| D | UPDATED RESPONSE TO SUBMISSIONS | 05.05.26 | GN | SG |
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

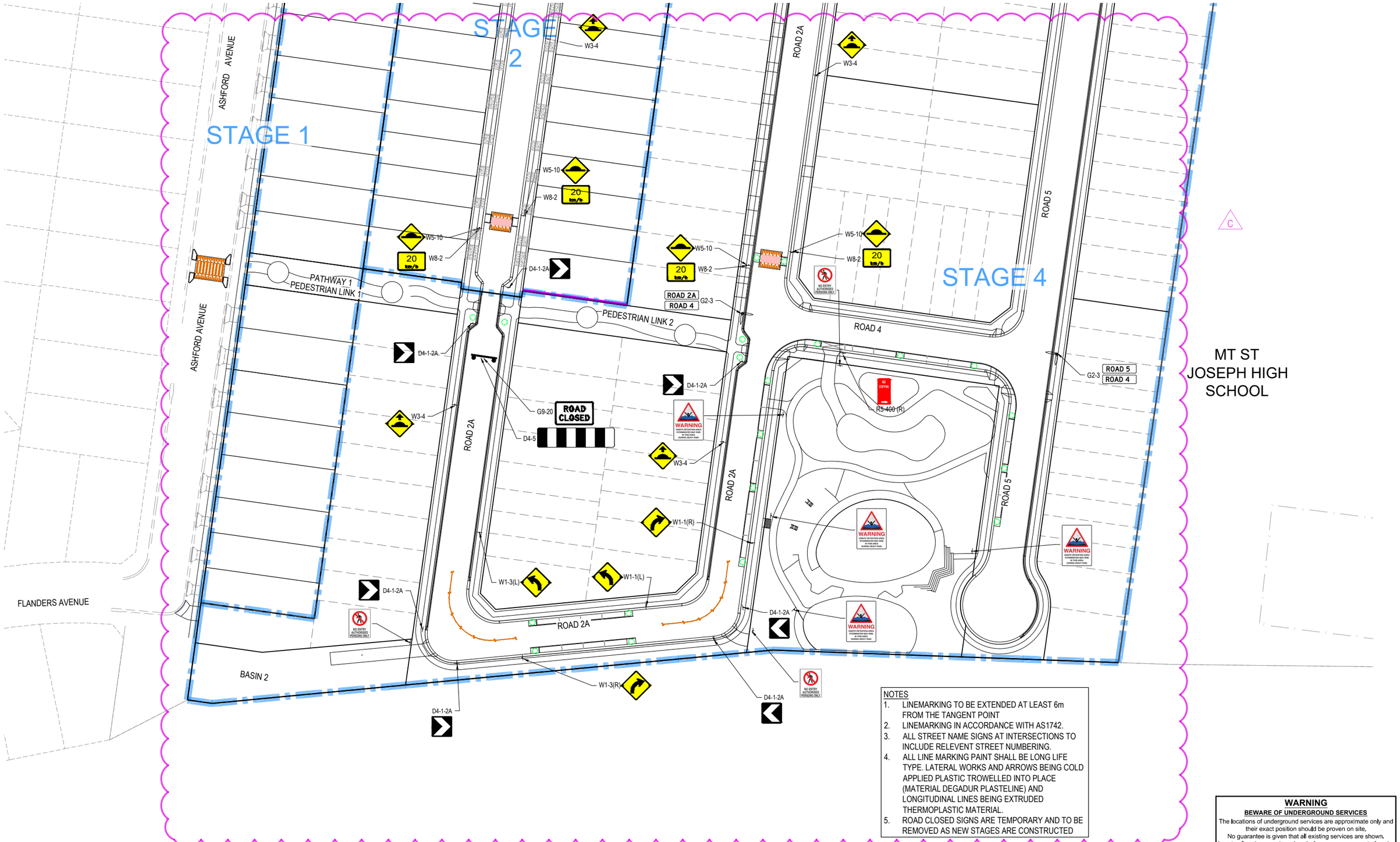
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: SIGNAGE & LINE MARKING PLANS
SHEET 4 OF 5

Sheet 89 of 162
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 254 | D |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-250-LMP.dwg




NOTES

1. LINEMARKING TO BE EXTENDED AT LEAST 6m FROM THE TANGENT POINT
2. LINEMARKING IN ACCORDANCE WITH AS1742.
3. ALL STREET NAME SIGNS AT INTERSECTIONS TO INCLUDE RELEVENT STREET NUMBERING.
4. ALL LINE MARKING PAINT SHALL BE LONG LIFE TYPE. LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGADUR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL.
5. ROAD CLOSED SIGNS ARE TEMPORARY AND TO BE REMOVED AS NEW STAGES ARE CONSTRUCTED

LEGEND:

_ _ _ _ _ INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| D | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| C | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| B | SIGNAGE ADDED | 23.10.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

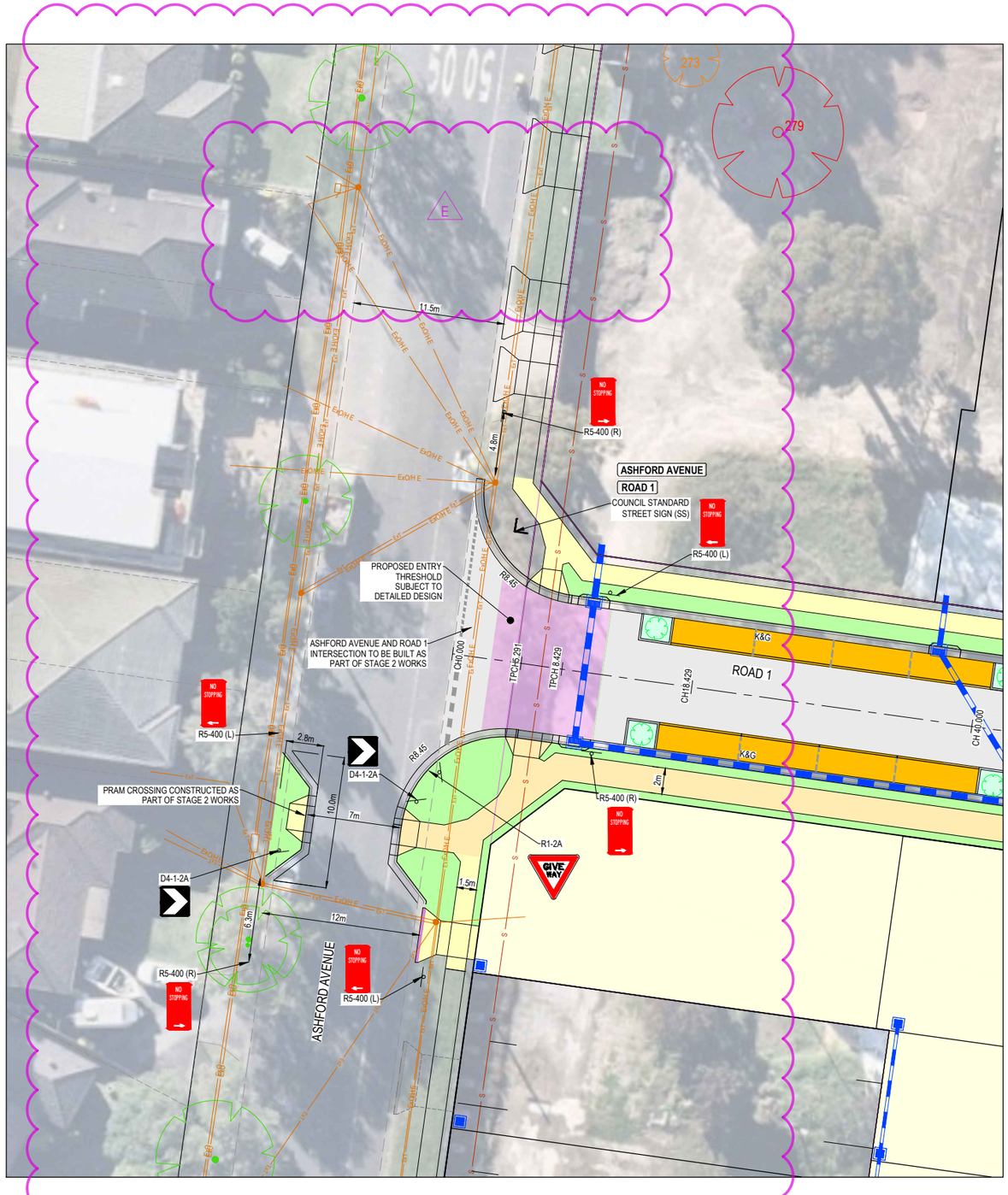
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: SIGNAGE & LINE MARKING PLANS
SHEET 5 OF 5

Sheet 90 of 162
Scale 1:500 @ A1
N

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 255 | D |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-250-LMP.dwg




## LEGEND

- STORMWATER PIPE & PIT
- SEWER & MAINTENANCE STRUCTURES
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING RECYCLED WATER
- EXISTING TREE TO BE REMOVED AND REPLACED AS PER ARBORIST ADVICE DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS
- EXISTING TREE
- PROPOSED FOOTPATH (1.5m)
- PROPOSED SHARED PATH (2.0m)
- PROPOSED NATURE STRIP
- ALTERNATIVE PAVEMENT DESIGN

LEGEND:

- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved.
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| E | RESPONSE TO REQUEST FOR INFORMATION | 10.06.26 | GN | SG |
| D | UPDATED RESPONSE TO SUBMISSIONS | 05.05.26 | GN | SG |
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: INTERSECTION DETAILS
SHEET 1 OF 3

Sheet 91 of 162

Scale 1:200 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 300 | E |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-300-INT.dwg




## LEGEND

- STORMWATER PIPE & PIT
- SEWER & MAINTENANCE STRUCTURES
- ExE — EXISTING ELECTRICITY (UNDERGROUND)
- ExO/H E — EXISTING ELECTRICITY (OVERHEAD)
- ExG — EXISTING GAS
- ExO — EXISTING OPTIC FIBRE
- ExT — EXISTING TELECOMMUNICATIONS
- ExDW — EXISTING WATER
- ExNDW — EXISTING RECYCLED WATER
- EXISTING TREE TO BE REMOVED AND REPLACED AS PER ARBORIST ADVICE DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS
- EXISTING TREE
- PROPOSED FOOTPATH (1.5m)
- PROPOSED SHARED PATH (2.0m)
- PROPOSED NATURE STRIP
- ALTERNATIVE PAVEMENT DESIGN

LEGEND:

- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2.5 5 10 15 20
SCALE 1:250 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | . |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2 & 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | INTERSECTION DETAILS<br>SHEET 2 OF 3 |

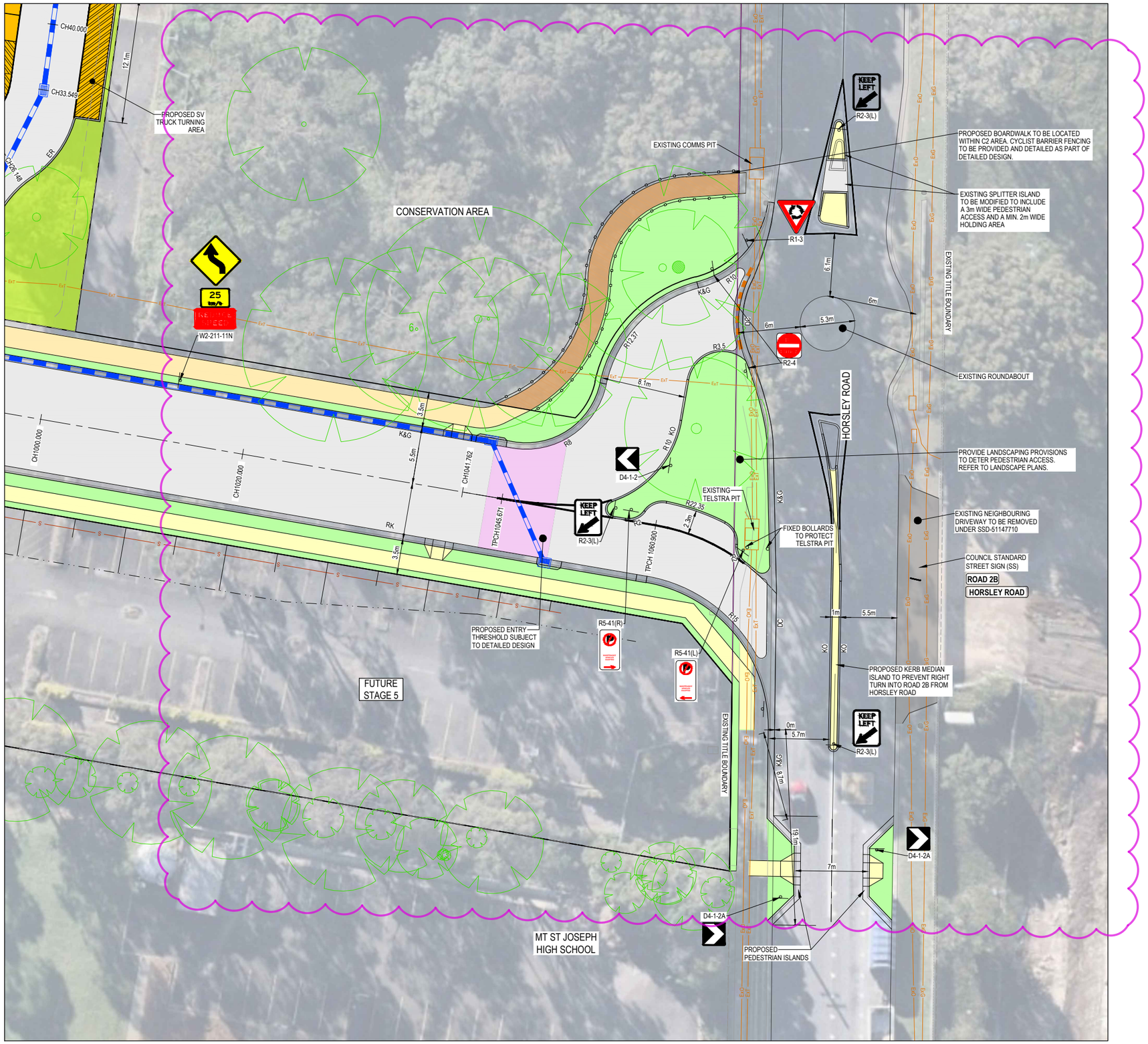
Sheet 92 of 162

Scale 1:250 @ A1

N

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 301 | B |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-300-INT.dwg




## LEGEND

- STORMWATER PIPE & PIT
- SEWER & MAINTENANCE STRUCTURES
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING RECYCLED WATER
- EXISTING TREE TO BE REMOVED AND REPLACED AS PER ARBORIST ADVICE DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS
- EXISTING TREE
- PROPOSED FOOTPATH (1.5m)
- PROPOSED SHARED PATH (2.0m)
- PROPOSED NATURE STRIP
- ALTERNATIVE PAVEMENT DESIGN

LEGEND:

- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

C D

**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| D | UPDATED RESPONSE TO SUBMISSIONS | 05.05.26 | GN | SG |
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

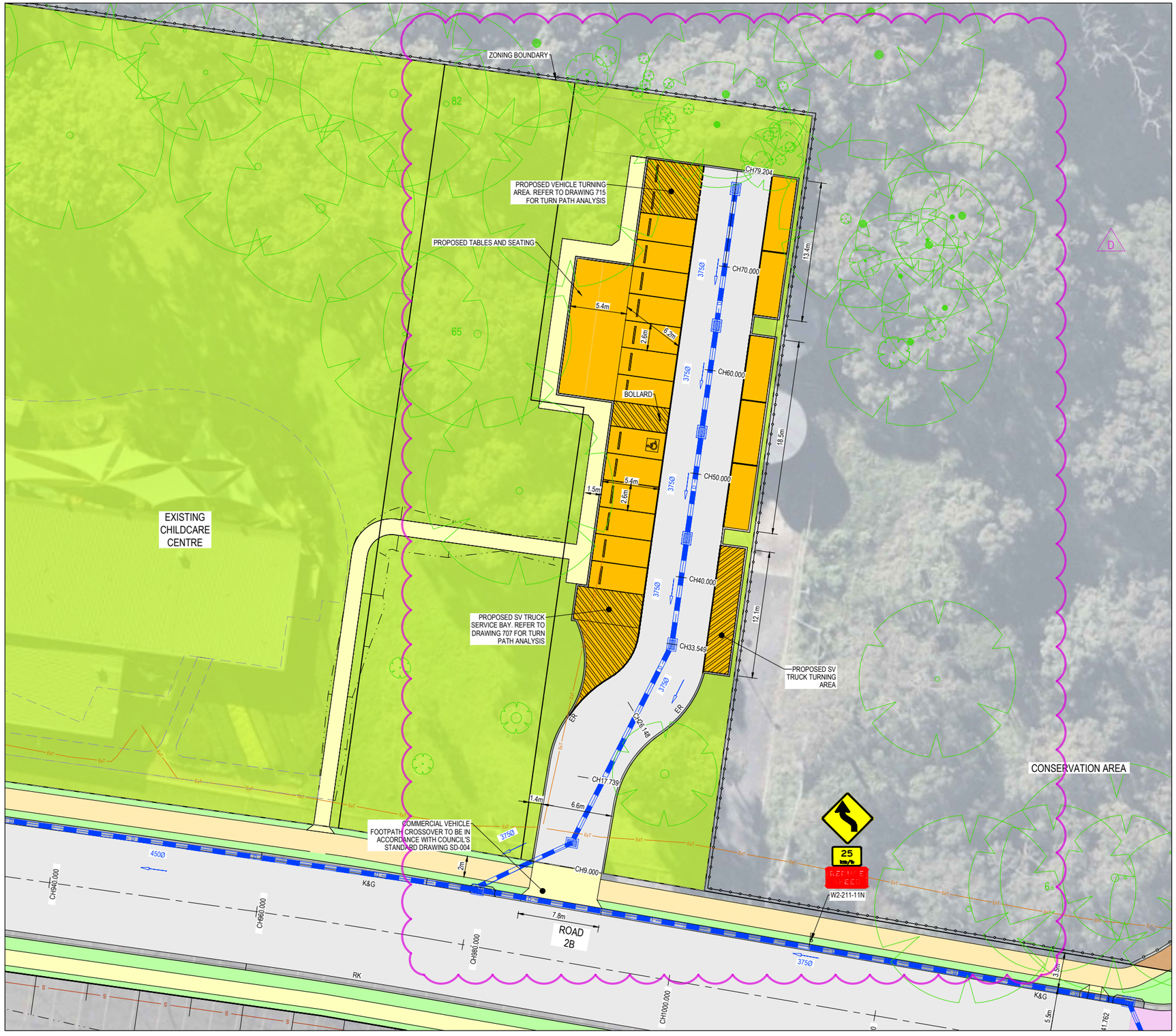
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: INTERSECTION DETAILS
SHEET 3 OF 3

Sheet 93 of 162
Scale 1:200 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 302 | D |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-300-INT.dwg




## LEGEND

- STORMWATER PIPE & PIT
- SEWER & MAINTENANCE STRUCTURES
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING RECYCLED WATER
- EXISTING TREE TO BE REMOVED AND REPLACED AS PER ARBORIST ADVICE DUE TO IMPACTS BY UNDERGROUND ELECTRICAL WORKS
- EXISTING TREE
- PROPOSED FOOTPATH
- PROPOSED NATURE STRIP
- ALTERNATIVE PAVEMENT DESIGN
- POROUS PAVEMENT

**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| D | RESPONSE TO SUBMISSIONS | 05.05.26 | GN | SG |
| C | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| B | CARPARK AMENDED | 23.10.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2 & 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | INTERSECTION DETAILS<br>CARPARK |

Sheet 94 of 162

Scale 1:200 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 303 | D |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-300-INT.dwg




**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site,
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 12.5 25 50 75 100
SCALE 1:1250 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

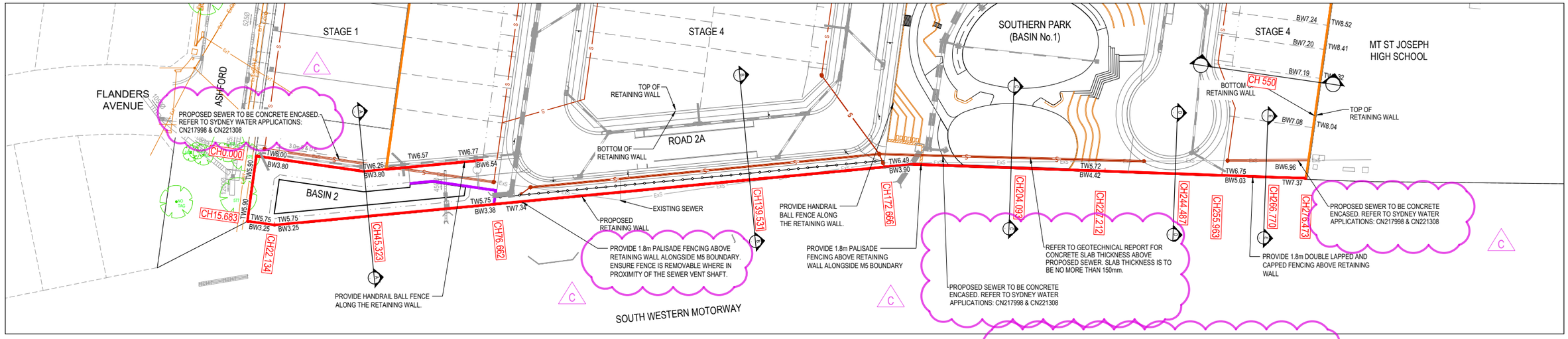
Drawing Title: OVERALL RETAINING WALLS

Sheet 95 of 162

Scale 1:1250 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 400 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-400-RET.dwg



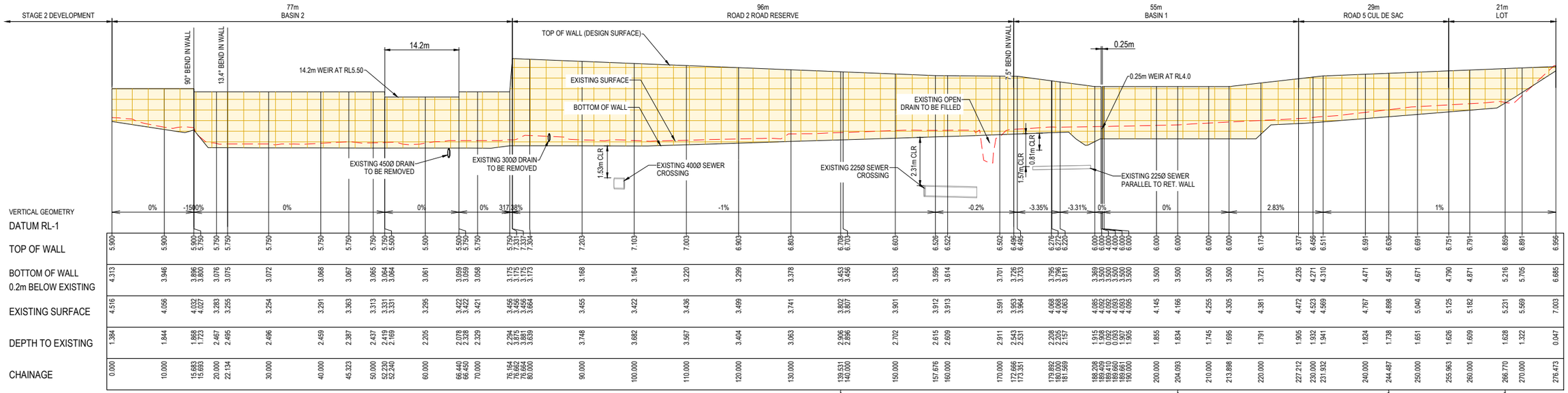

LAYOUT PLAN
SCALE 1:500 AT A1 SIZE

NOTES

1. NO STOCKPILING SHALL BE PERFORMED WITHIN THE ZONE OF INFLUENCE OF THE EXISTING OR PROPOSED SEWER ASSETS.
2. MONITORING AND VIBRATION CONTROL MEASURES AS DETAILED IN THE GEOTECHNICAL SEA REPORT ARE TO BE ADHERED TO FOR THE DURATION OF CONSTRUCTION WORKS.
3. ANY EXCEEDANCES OF THE ALLOWABLE LIMITS IN THIS MONITORING PHASE SHALL RESULT IN THE WORKS CEASING IMMEDIATELY AND SYDNEY WATER COORDINATOR TO BE NOTIFIED.

LEGEND - RETAINING WALLS

- POST & CONCRETE SLEEPER RETAINING WALL
- MASONRY BLOCK RETAINING WALL
- REINFORCED CONCRETE OR POST AND CONCRETE PANEL WALL




RETAINING WALL LONGITUDINAL SECTION
SCALE H1:400 V1:100AT A1 SIZE

HORIZ. 1:400 0 4 8 16 24 32
VERT. 1:100 0 1 2 4 6 8
SCALE AT A1 SIZE

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

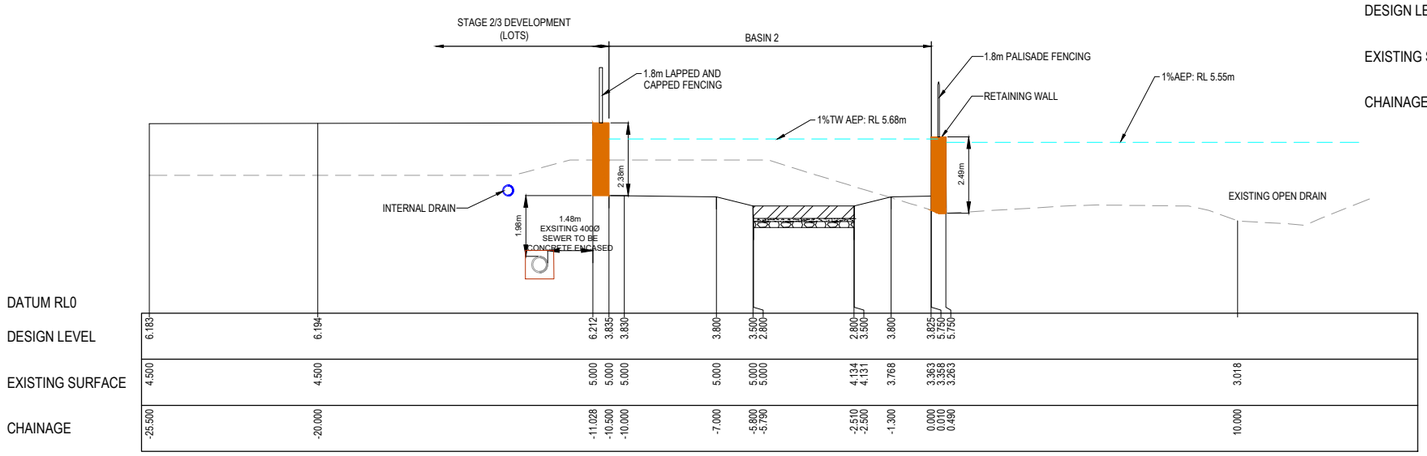
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: RETAINING WALL ALONG SOUTH WESTERN MORTORWAY LAYOUT & LONG-SECTION

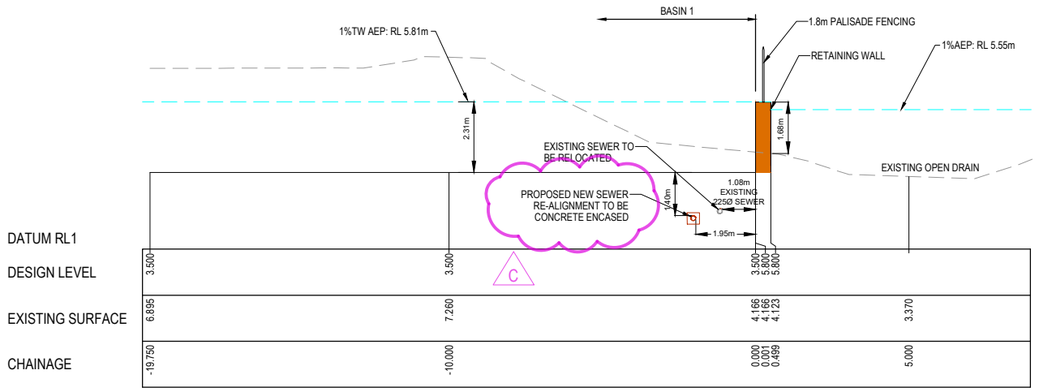
Sheet 96 of 162
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 401 | C |

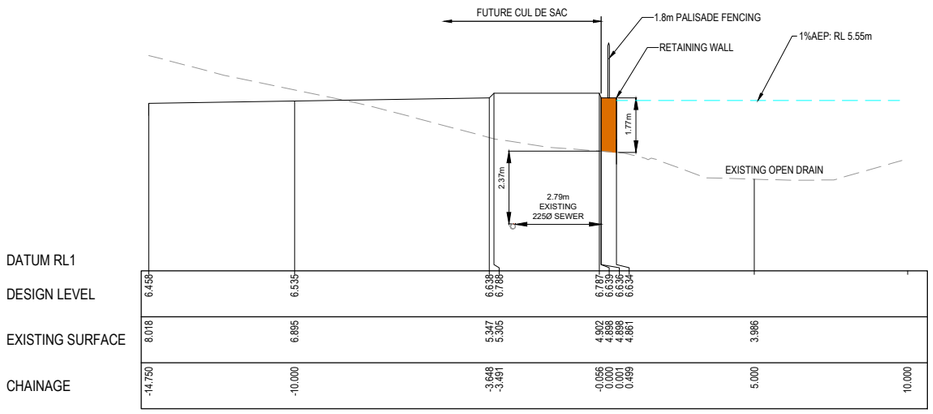
C:\12DWS\data\MELSQL01\Eng - 321_357\8\Drawings\2301879-321-401-RET.dwg



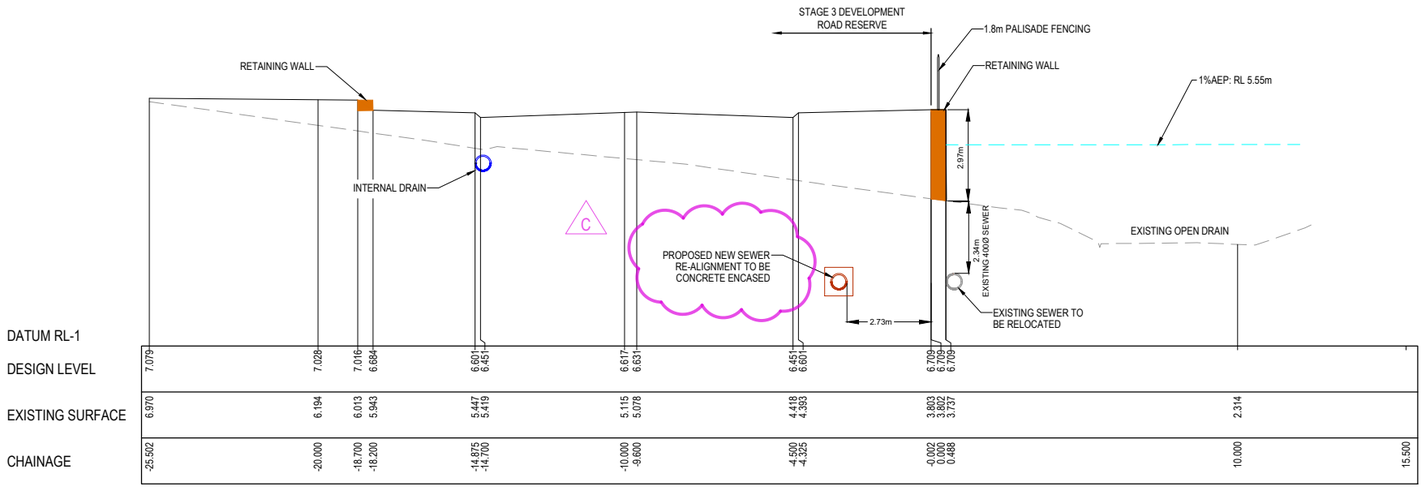

SECTION A-A - CH 45.323



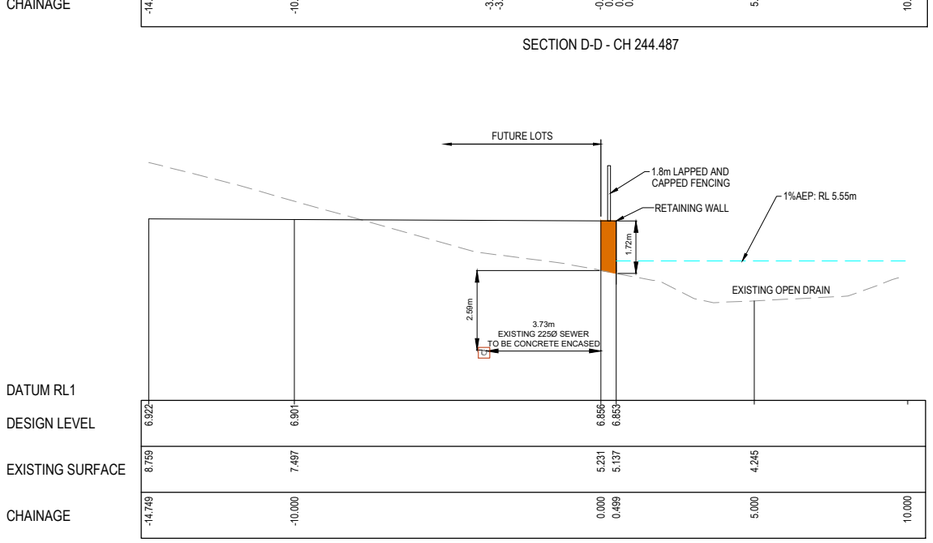

SECTION C-C - CH 204.093




SECTION D-D - CH 244.487




SECTION B-B - CH 139.531




SECTION E-E - CH 266.770

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

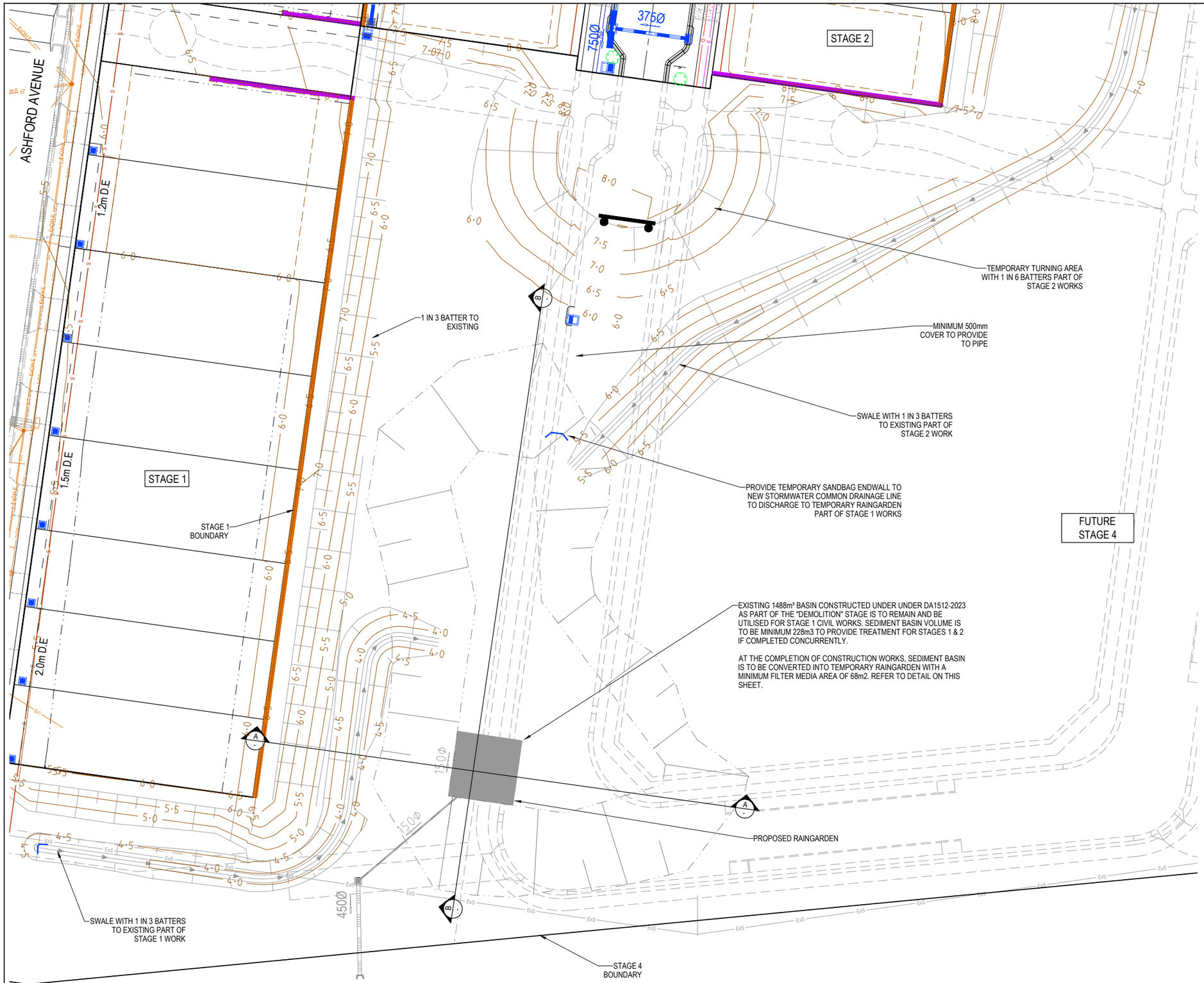
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: RETAINING WALL CROSS SECTIONS

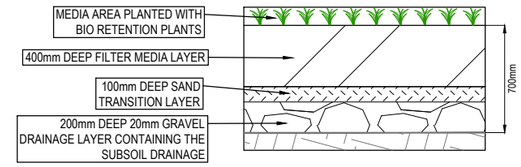
Sheet 97 of 162
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 402 | C |

C:\12DWS\data\MELSQL01\Eng - 321_357\Drawings\2301879-321-401-RET.dwg




NOTE:
TEMPORARY OSD BASIN 1 TO BE CONSTRUCTED WITH STAGE 1 WORKS AND DECOMMISSIONED WITH STAGE 4 WORKS




DETAIL B
TEMPORARY RAINGAREDEN DETAIL
NOT TO SCALE

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2.5 5 10 15 20
SCALE 1:250 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

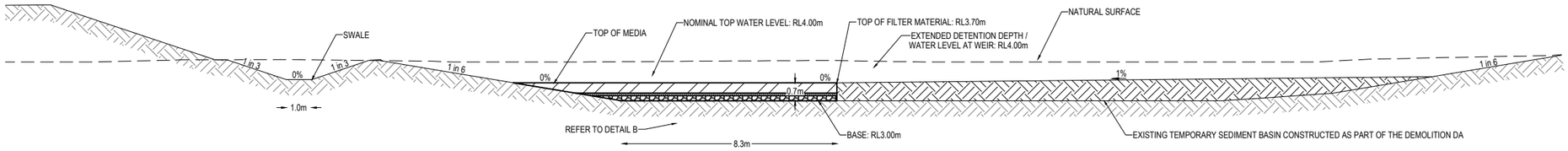
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TEMPORARY OSD BASIN 1
SHEET 1 OF 2

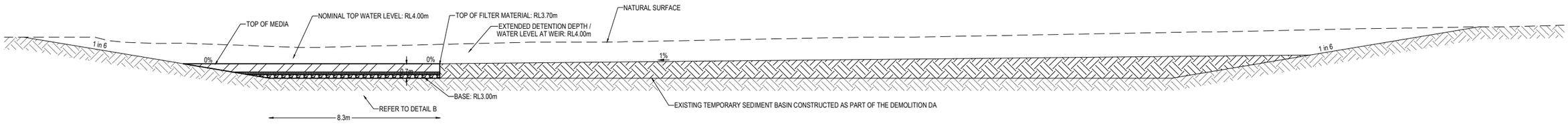
Sheet 98 of 162
Scale 1:250 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 500 | B |

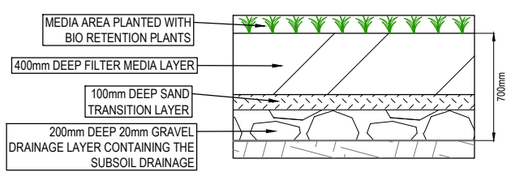
C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-500-OSD.dwg




SECTION A-A
SEDIMENT BASIN TYPICAL CROSS SECTION
SCALE HOR. 1:100 AT A1 SIZE




SECTION B-B
SEDIMENT BASIN TYPICAL CROSS SECTION
SCALE HOR. 1:100 AT A1 SIZE




DETAIL B
TEMPORARY RAINGAREDEN DETAIL
NOT TO SCALE

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

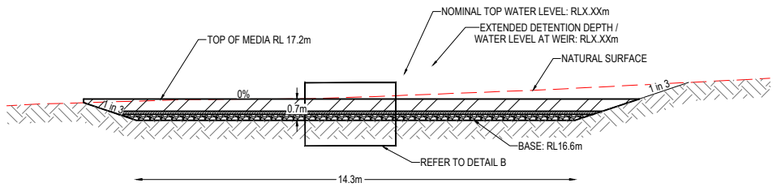
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TEMPORARY OSD BASIN 1
SHEET 2 OF 2

Sheet 99 of 162
Scale 1:200 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 501 | B |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-500-OSD.dwg




SECTION A-A
SEDIMENT BASIN TYPICAL CROSS SECTION
SCALE HOR. 1:100 AT A1 SIZE

FUTURE STAGE 6

SEDIMENT BASIN TO BE CONSTRUCTED PRIOR TO COMMENCEMENT OF WORKS AND CLEANED AS NECESSARY FOR USE. SEDIMENT BASIN VOLUME IS TO BE MINIMUM 169m³ TO PROVIDE TREATMENT FOR DEVELOPMENT

AT THE COMPLETION OF CONSTRUCTION WORKS, SEDIMENT BASIN TO BE CONVERTED INTO TEMPORARY RAINGARDEN WITH A MINIMUM FILTER AREA OF 169m². REFER TO DETAIL ON THIS SHEET

150Ø

SOLID 150mm DIA. UPVC PIPE GRADED AT 1% TO DAYLIGHT

150Ø

1 IN 3 BATTERS

DISCHARGE CONTROL PIT

PROVIDE TEMPORARY SANDBAG ENDWALL TO TEMPORARY STORMWATER COMMON DRAINAGE LINE TO DISCHARGE TO TEMPORARY RAINGARDEN PART OF STAGE 3 WORKS

TEMPORARY DRAINAGE PIPE INTO SEDIMENT BASIN

675Ø

675Ø

PERMANENT DRAINAGE PIT AND PIPES CONSTRUCTED OUTSIDE OF STAGE 3 TO HAVE LINTELS PLATED OFF

ROAD 2B

675Ø

FUTURE STAGE 5

PROVIDE TEMPORARY SANDBAG ENDWALL TO NEW STORMWATER COMMON DRAINAGE LINE TO DISCHARGE TO TEMPORARY RAINGARDEN PART OF STAGE 1 WORKS

DISCHARGE CONTROL PIT

TEMPORARY SWALE WITH 1 IN 3 BATTERS GRADED AT 0.5% TO BASIN

375Ø

PERMANENT DRAINAGE PIPE CONSTRUCTED OUTSIDE OF STAGE 3 TO HAVE LINTELS PLATED OFF

FUTURE STAGE 6

STAGE 6 BOUNDARY

STAGE 3

375Ø

375Ø

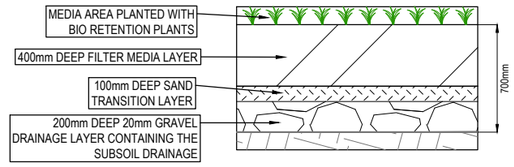
375Ø

ROAD 9

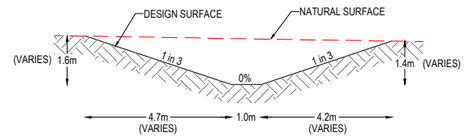
NOTE:
TEMPORARY OSD BASIN 2 TO BE CONSTRUCTED WITH STAGE 3 WORKS AND DECOMMISSIONED WITH STAGE 6 WORKS.

CONSERVATION AREA

STAGE 3A & 3B




DETAIL B
TEMPORARY RAINGAREDEN DETAIL
NOT TO SCALE




SECTION B-B
SWALE TYPICAL CROSS SECTION
SCALE HOR. 1:100 AT A1 SIZE

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2.5 5 10 15 20
SCALE 1:250 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TEMPORARY OSD BASIN 2

Sheet 100 of 162

Scale: 1:250 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 502 | B |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-500-OSD.dwg

C

ROAD 4

VEHICULAR DRIVEWAY FOR MAINTENANCE ACCESS

TOP OF MEDIA RL 3.80
AREA OF MEDIA = 241²

OUTDOOR FITNESS ZONE

RAINGARDEN

GPT PIT

GPT PIT

INDICTIVE LOCATION FOR GPT MAINTENANCE TRUCK

INDICTIVE LOCATION FOR GPT MAINTENANCE TRUCK

SPLITTER PIT A

SPLITTER PIT B

ROAD 2A

ROAD 5

RL: 4.12

RL: 4.70

RL: 5.35

RL: 6.00

SURCHARGE PITS LOCATED WITHIN PROPOSED SWALE

GRASSED AREA

IL: 3.50

FLAT SWALE RL3.4

PIT TO HAVE CONCRETE LID. COLOUR TO MATCH PATH

STAIRS TO BE PROVIDED. REFER TO LANDSCAPING PLANS

DDA COMPLIANT RAMP GRADED AT MAX 1 IN 14 WITH LANDINGS

SWALE GRADED FLAT AT IL: 3.40

REFER TO URBIS LANDSCAPE ARCHITECTURAL PLANS FOR BASIN 1 EMBELLISHMENT DESIGN.

RL: 3.50

RL: 4.50

RL: 5.00

RL: 5.50

RL: 6.00

DISCHARGE CONTROL PIT. REFER TO DETAIL D

MULTI-PURPOSE HARDSTAND SPORTS COURT/ ACTIVE WALL

UPDATED SEWER ALIGNMENT AS PART OF OTHER PACKAGE OF WORKS

SWALE GRADED FLAT AT IL: 3.40

SURCHARGE PIT LOCATED WITHIN PROPOSED SWALE

2.5m-HIGH RETAINING WALL

EXISTING SEWER TO BE RELOCATED AS PART OF OTHER PACKAGE OF WORKS

OUTLET IL: 2.56

PROVIDE SCOUR PROTECTION DOWNSTREAM OF WEIR

RIPRAP TO BE CONSTRUCTED IN ACCORDANCE WITH THE BLUEBOOK

RETAINING WALL TO SUPPORT THE MAINTENANCE ACCESS

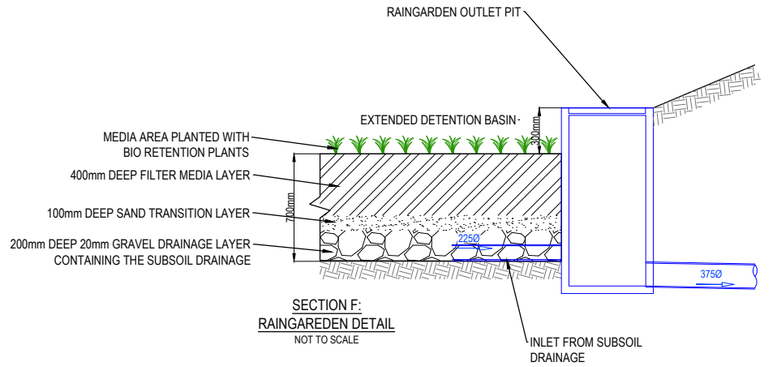
WEIR LENGTH OF 0.25m. REFER TO DETAIL ON RETAINING WALL PLAN

LEGEND:

INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

LEGEND - LAYOUT PLAN

- GRASSED AREA
- FOOTPATH
- CONCRETED AREA
- RETAINING WALL
- RAINGARDEN
- DRIVEWAY
- SUBSOIL DRAINAGE
- STORMWATER DRAIN & PIT




SECTION F:
RAINGAREDEN DETAIL
NOT TO SCALE

REFER TO URBIS LANDSCAPE ARCHITECTURAL PLANS FOR BASIN 1 EMBELLISHMENT DESIGN.

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 2.5 5 10 15 20
SCALE 1:250 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

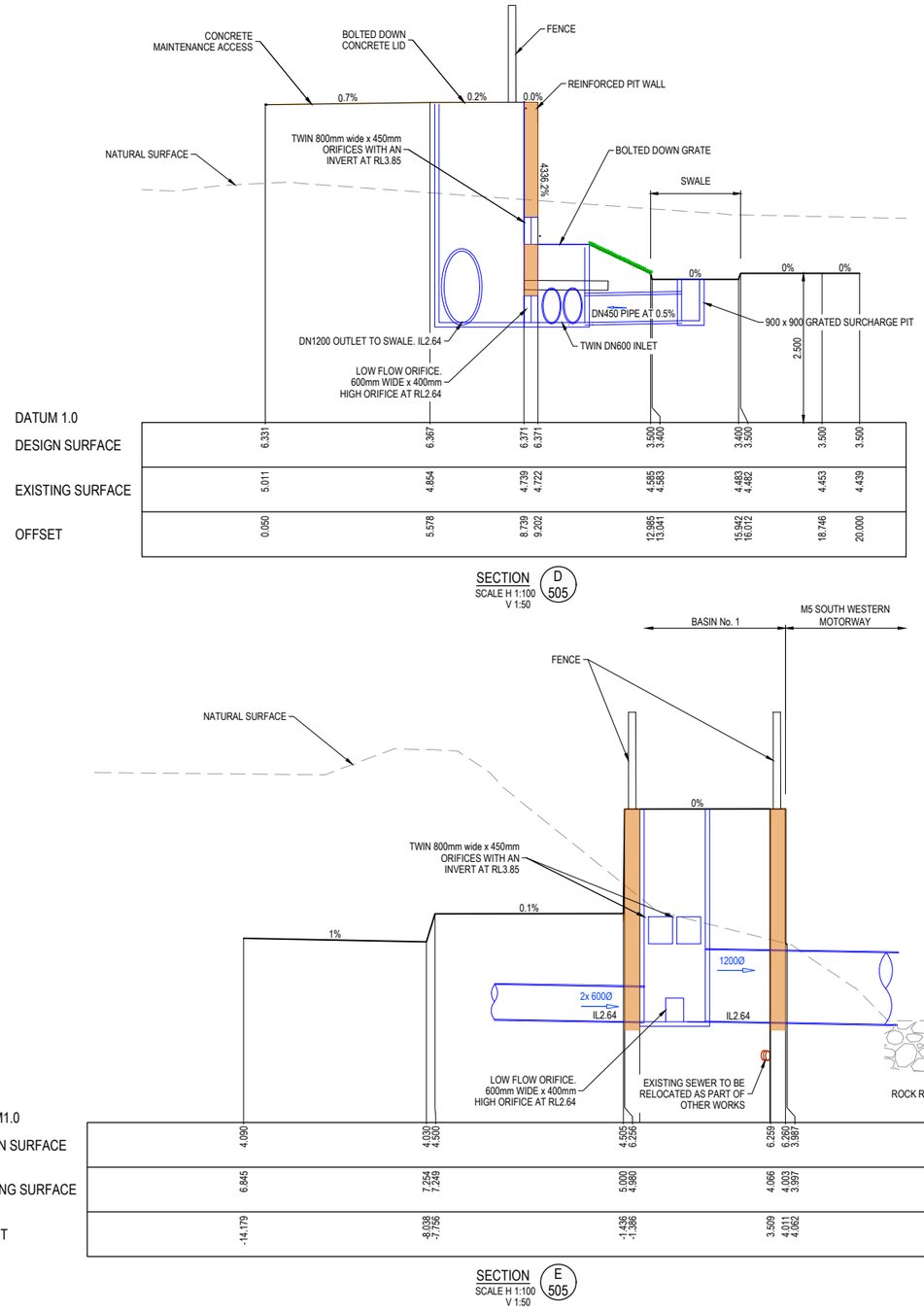
| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2 & 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | OSD BASIN 1 (SHEET 1 OF 4) |

Sheet 101 of 162

Scale 1:250 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 505 | C |

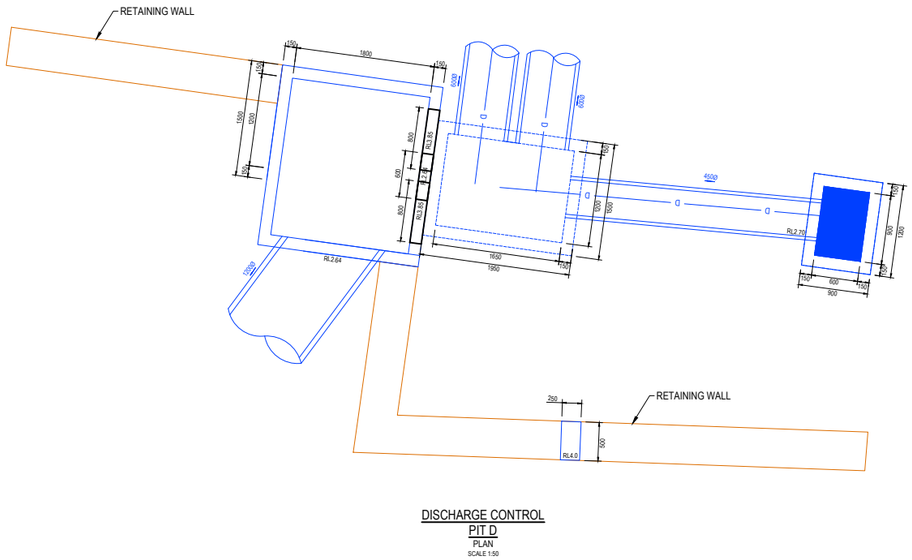
C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-505-OSD.dwg



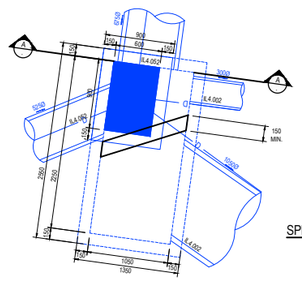

SECTION D 505
SCALE H 1:100 V 1:50



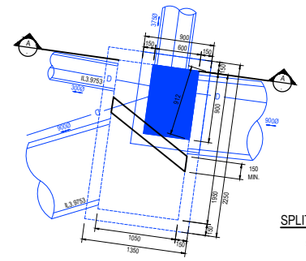

SECTION E 505
SCALE H 1:100 V 1:50



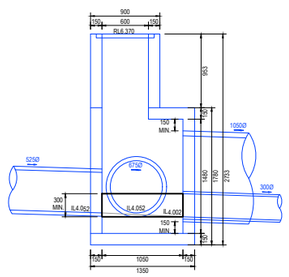

DISCHARGE CONTROL PIT D
PLAN
SCALE 1:50



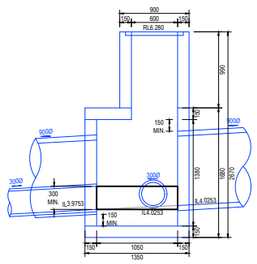

SPLITTER PIT A
PLAN
SCALE 1:50




SPLITTER PIT B
PLAN
SCALE 1:50




SPLITTER PIT A
DETAIL AA
SCALE 1:50




SPLITTER PIT B
DETAIL AA
SCALE 1:50

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

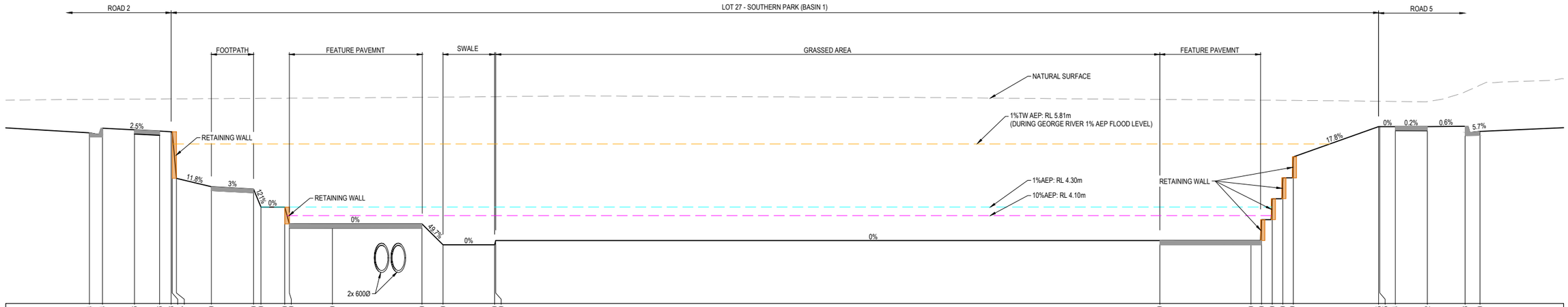
Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2 & 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | OSD BASIN 1<br>(SHEET 2 OF 4) |

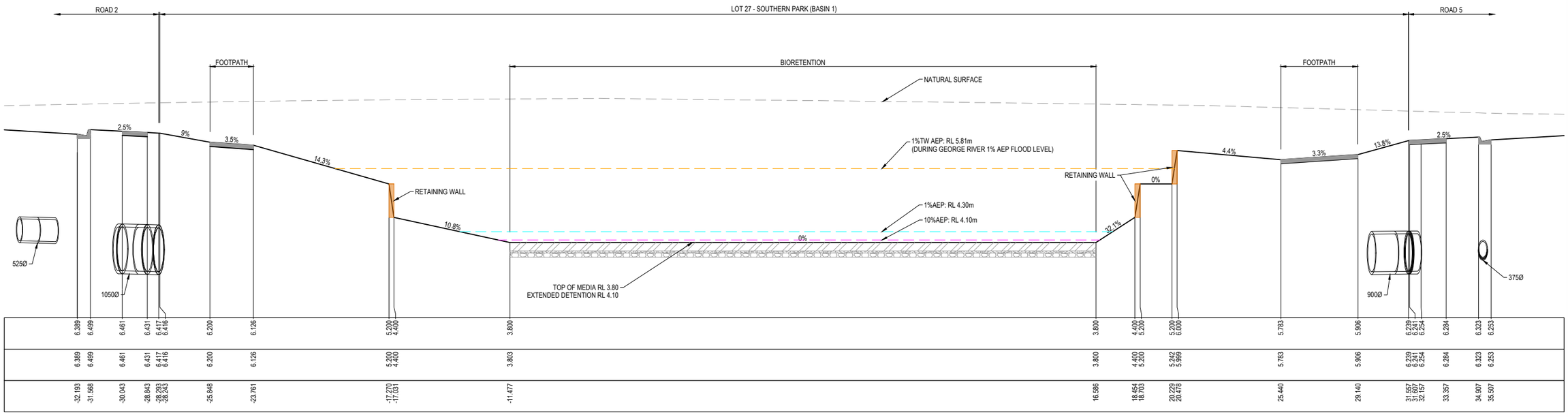
Sheet 102 of 162
Scale 1:200 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 506 | B |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-505-OSD.dwg




SECTION A
SCALE H 1:100
V 1:50




SECTION B
SCALE H 1:100
V 1:50

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

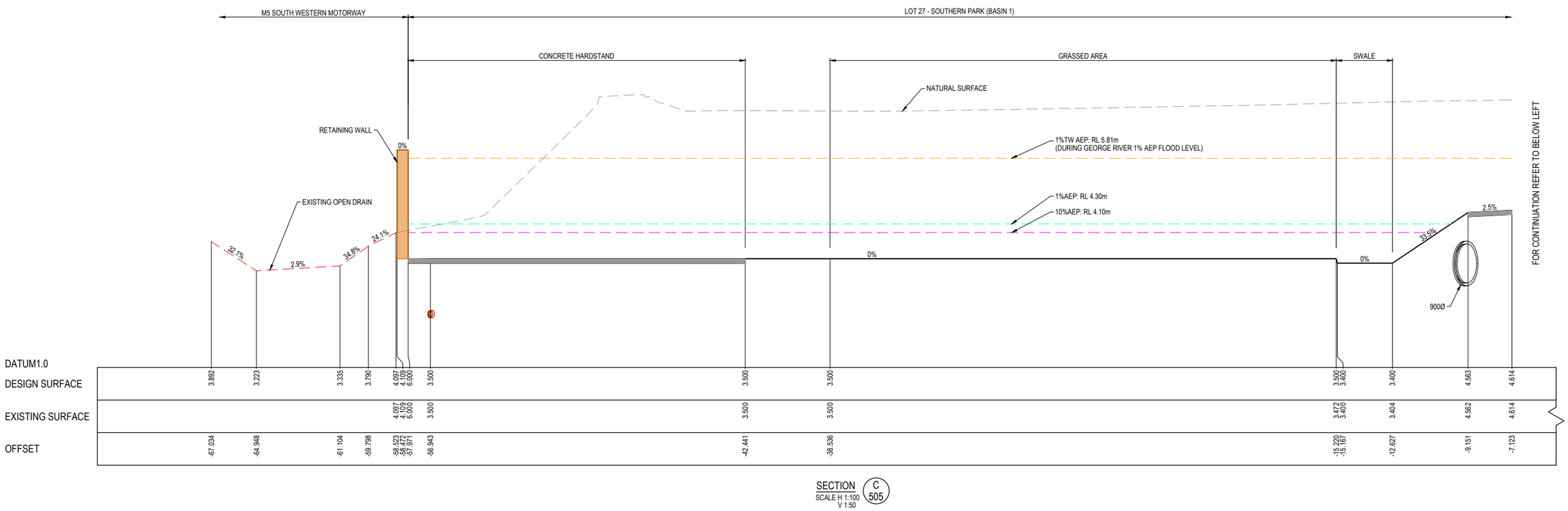
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: OSD BASIN 1
(SHEET 3 OF 4)

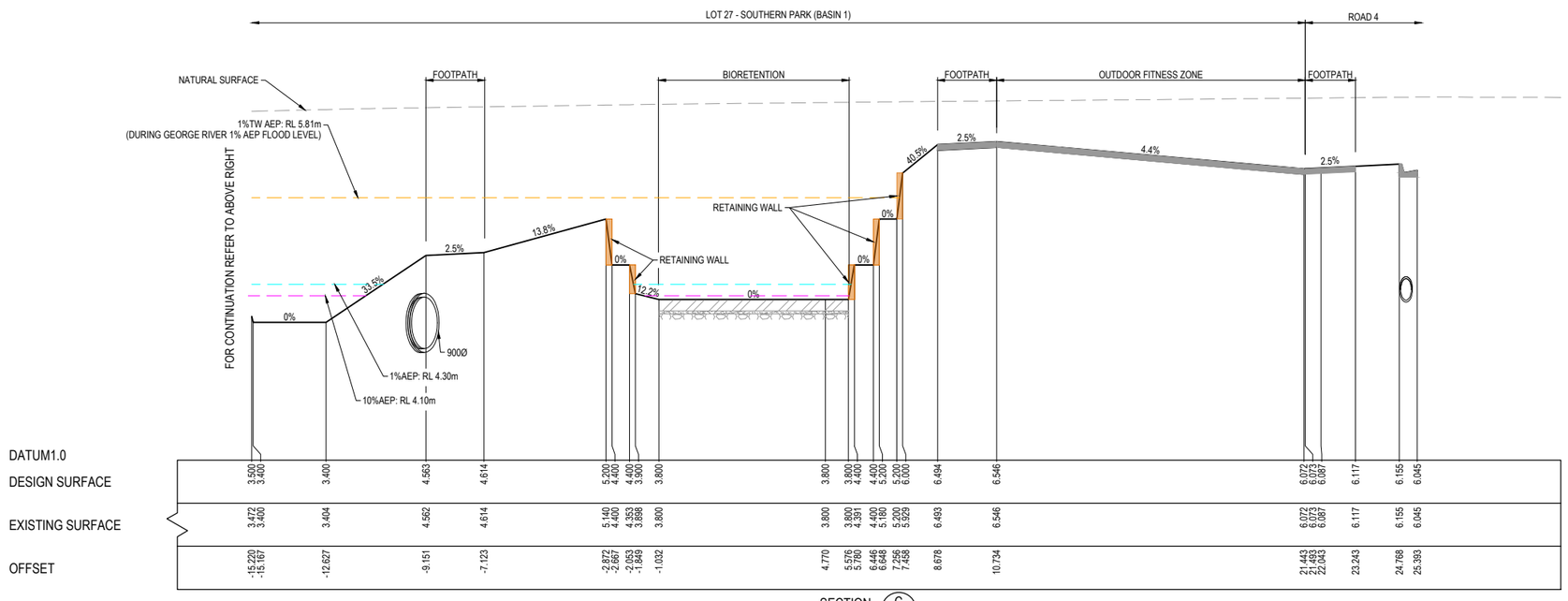
Sheet 103 of 162
Scale 1:200 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 507 | B |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-505-OSD.dwg




SECTION C 505
SCALE H 1:100
V 1:50




SECTION C 505
SCALE H 1:100
V 1:50

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

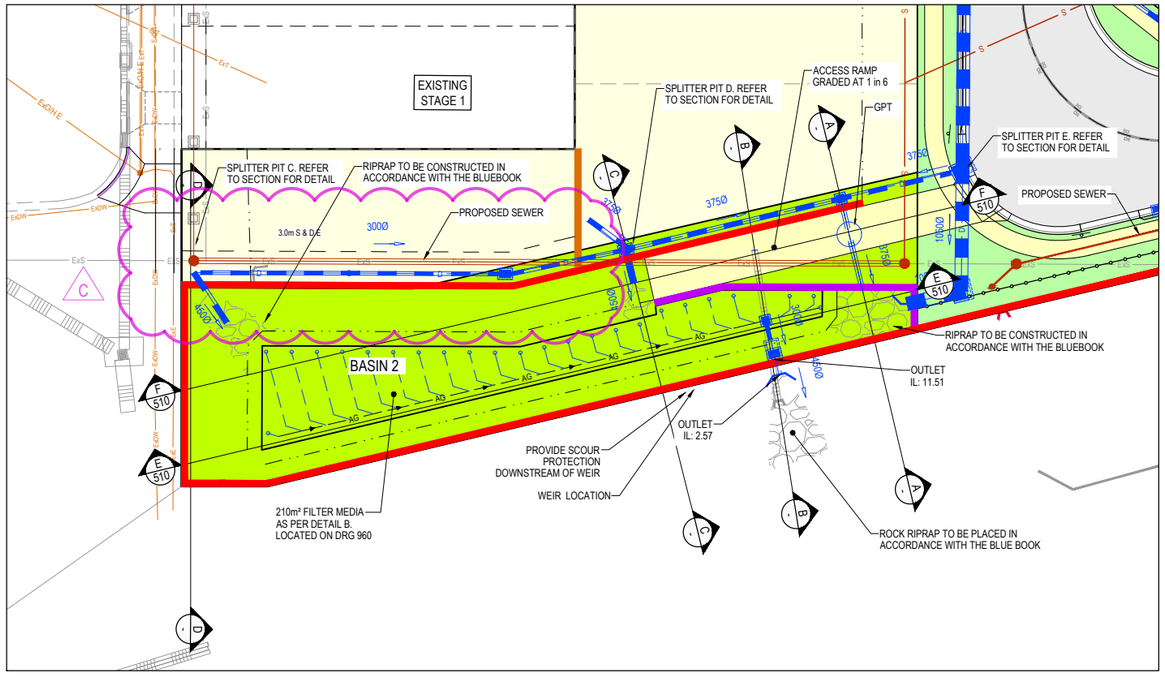
Drawing Title: OSD BASIN 1
(SHEET 4 OF 4)

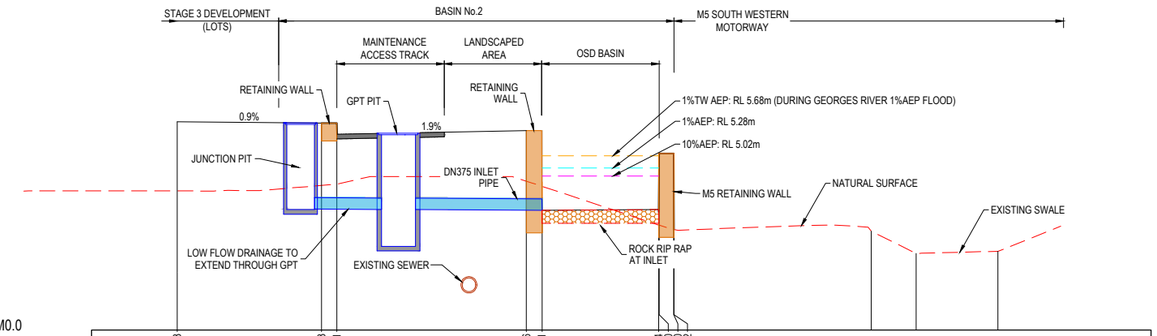
Sheet 104 of 162

Scale: 1:200 @ A1

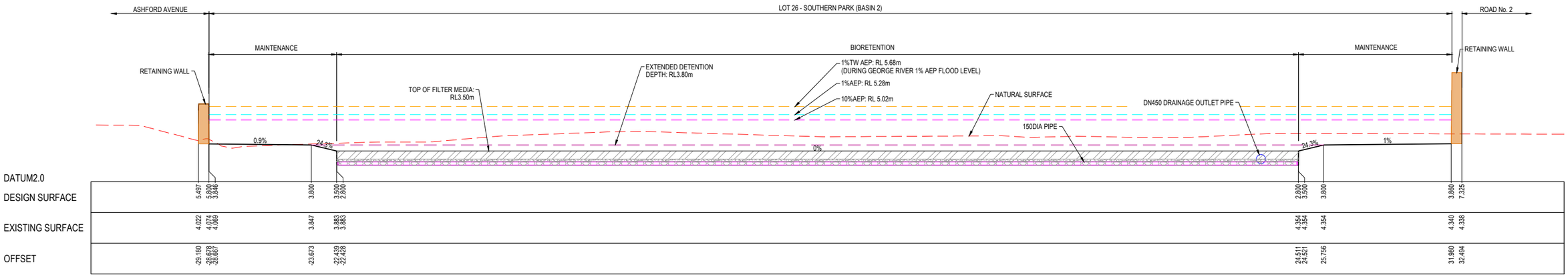
| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 508 | B |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-505-OSD.dwg

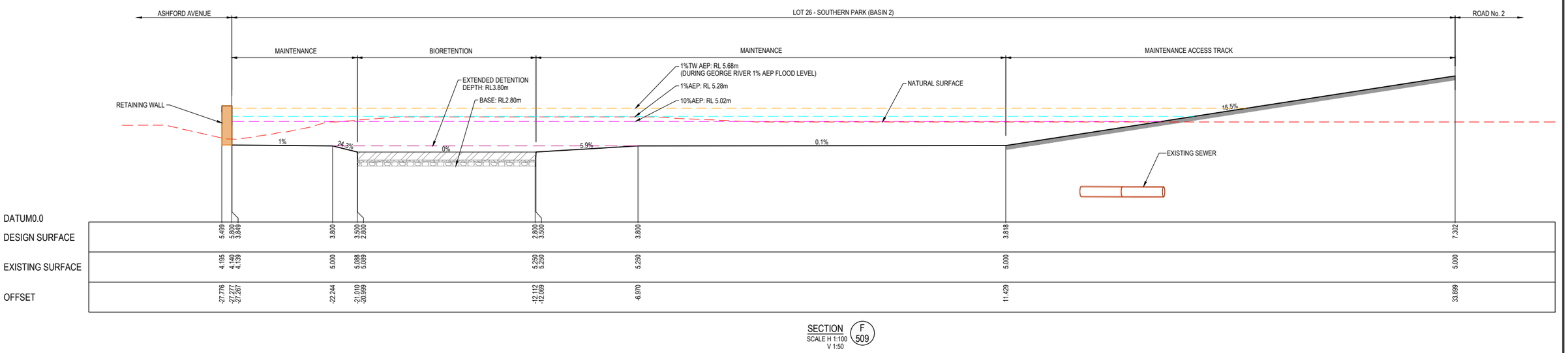

EXISTING STAGE 1
SPLITTER PIT C. REFER TO SECTION FOR DETAIL
RIPRAP TO BE CONSTRUCTED IN ACCORDANCE WITH THE BLUEBOOK
PROPOSED SEWER
SPLITTER PIT D. REFER TO SECTION FOR DETAIL
ACCESS RAMP GRADED AT 1 in 6
GPT
SPLITTER PIT E. REFER TO SECTION FOR DETAIL
PROPOSED SEWER
BASIN 2
RIPRAP TO BE CONSTRUCTED IN ACCORDANCE WITH THE BLUEBOOK
OUTLET IL: 11.51
OUTLET IL: 2.57
PROVIDE SCOUR PROTECTION DOWNSTREAM OF WEIR
WEIR LOCATION
210m² FILTER MEDIA AS PER DETAIL B. LOCATED ON DRG 960
ROCK RIPRAP TO BE PLACED IN ACCORDANCE WITH THE BLUE BOOK


STAGE 3 DEVELOPMENT (LOTS)
BASIN No.2
M5 SOUTH WESTERN MOTORWAY
MAINTENANCE ACCESS TRACK
LANDSCAPED AREA
OSD BASIN
RETAINING WALL
GPT PIT
RETAINING WALL
0.9%
1.9%
JUNCTION PIT
DN375 INLET PIPE
1%TW AEP: RL 5.68m (DURING GEORGES RIVER 1%AEP FLOOD)
1%AEP: RL 5.28m
10%AEP: RL 5.02m
M5 RETAINING WALL
NATURAL SURFACE
EXISTING SWALE
LOW FLOW DRAINAGE TO EXTEND THROUGH GPT
EXISTING SEWER
ROCK RIP RAP AT INLET

| | | |




SECTION E
SCALE H 1:100
V 1:50
509




SECTION F
SCALE H 1:100
V 1:50
509

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed Date | R. GOVENDER 23.06.2025 |
| Drawn | D.RAFTER |
| Checked Date | S. FERGUSON 07.11.25 |
| Approved Reg. No. Date | S. FERGUSON PE0008347 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

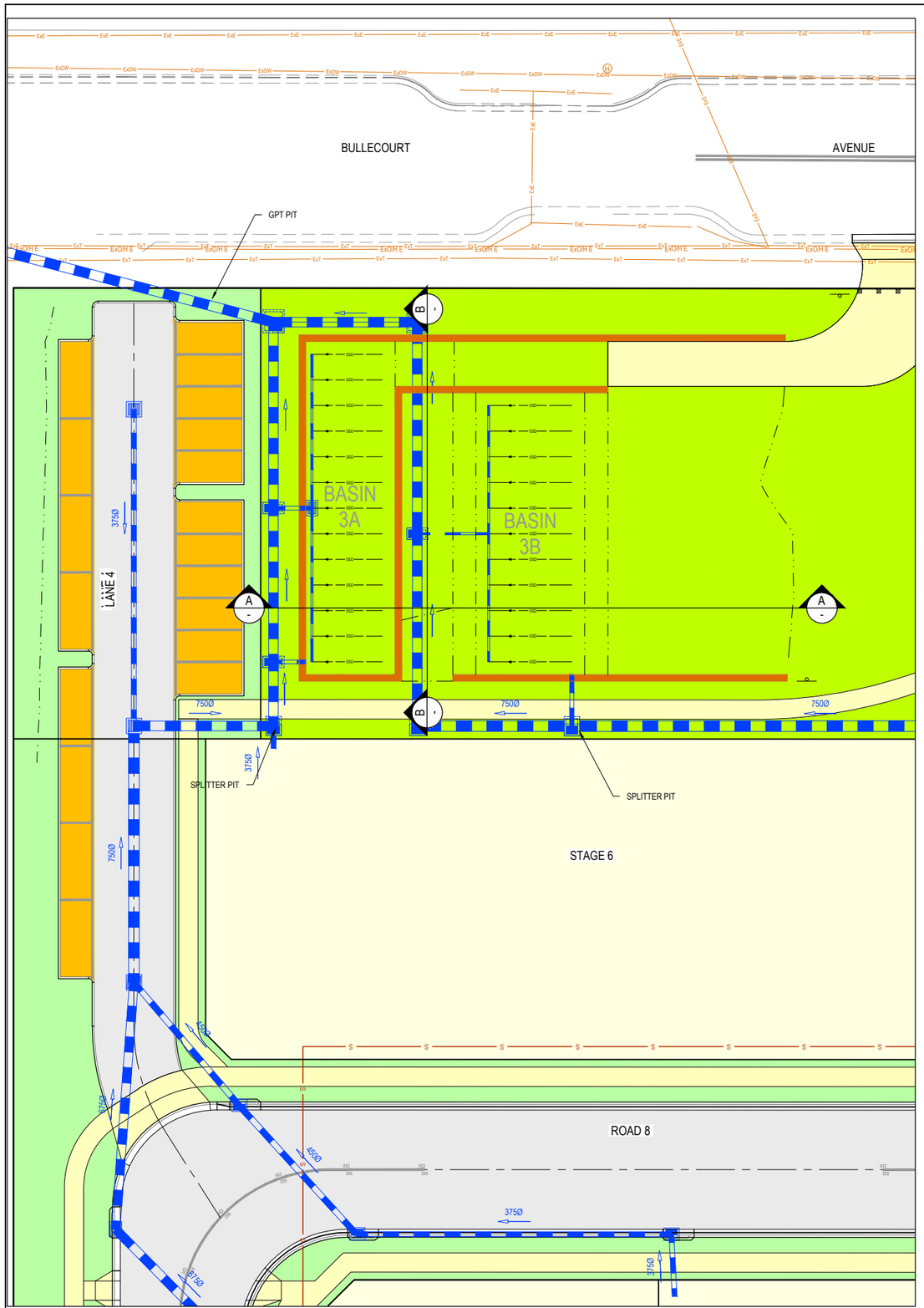
Drawing Title: OSD BASIN 2 (SHEET 2 OF 2)

Sheet 106 of 162

Scale: 1:200 @ A1

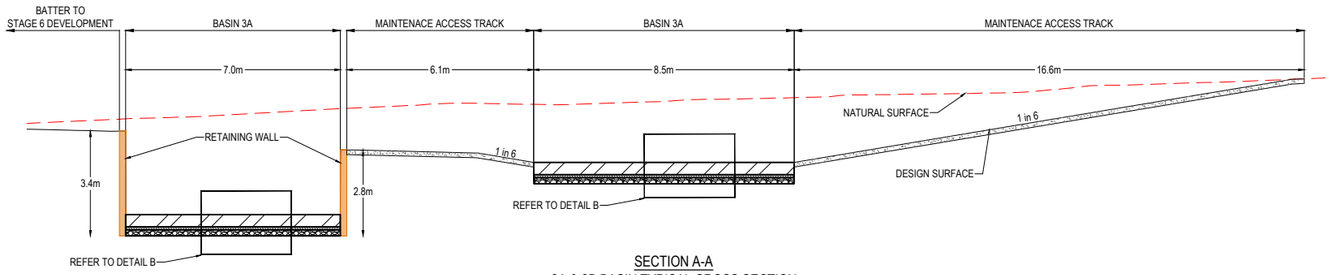
| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 510 | B |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-505-OSD.dwg

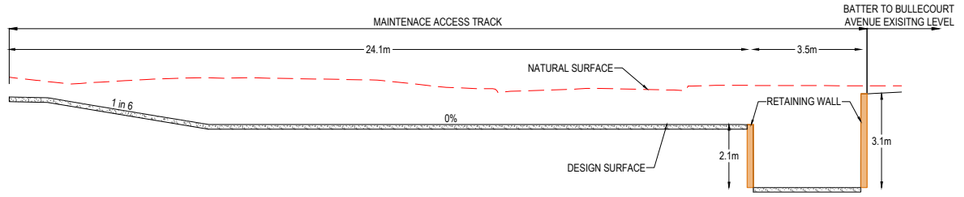



LEGEND:

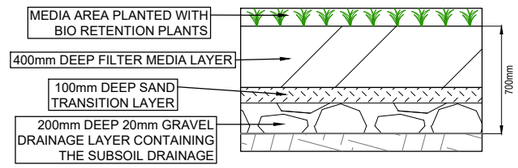
_ _ _ _ _ INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL




SECTION A-A
3A & 3B BASIN TYPICAL CROSS SECTION
SCALE HOR. 1:100 AT A1 SIZE




SECTION B-B
3A & 3B BASIN TYPICAL CROSS SECTION
SCALE HOR. 1:100 AT A1 SIZE




DETAIL B
TEMPORARY RAINGAREDEN DETAIL
NOT TO SCALE

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

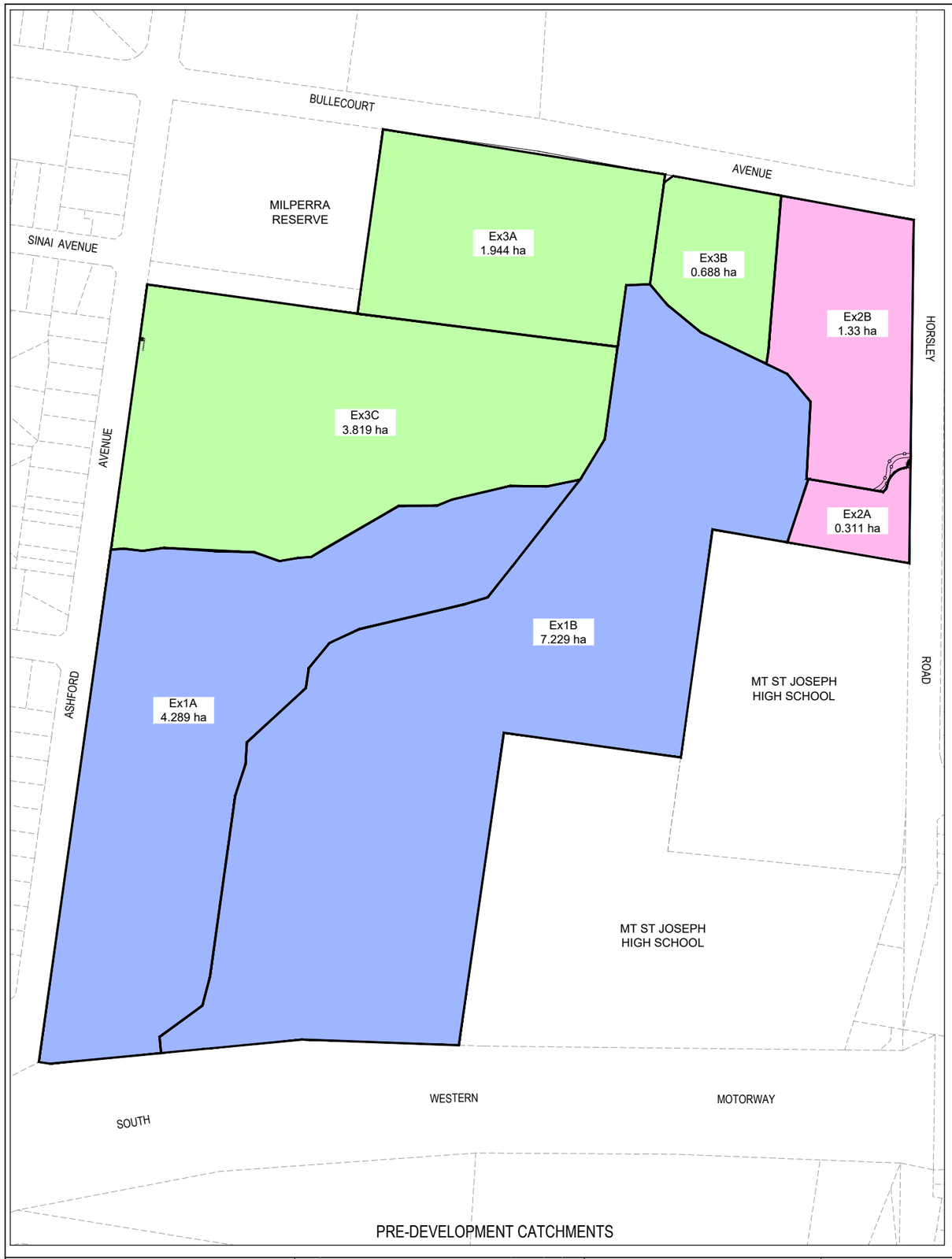
Drawing Title: OSD BASIN 3

Sheet 107 of 162

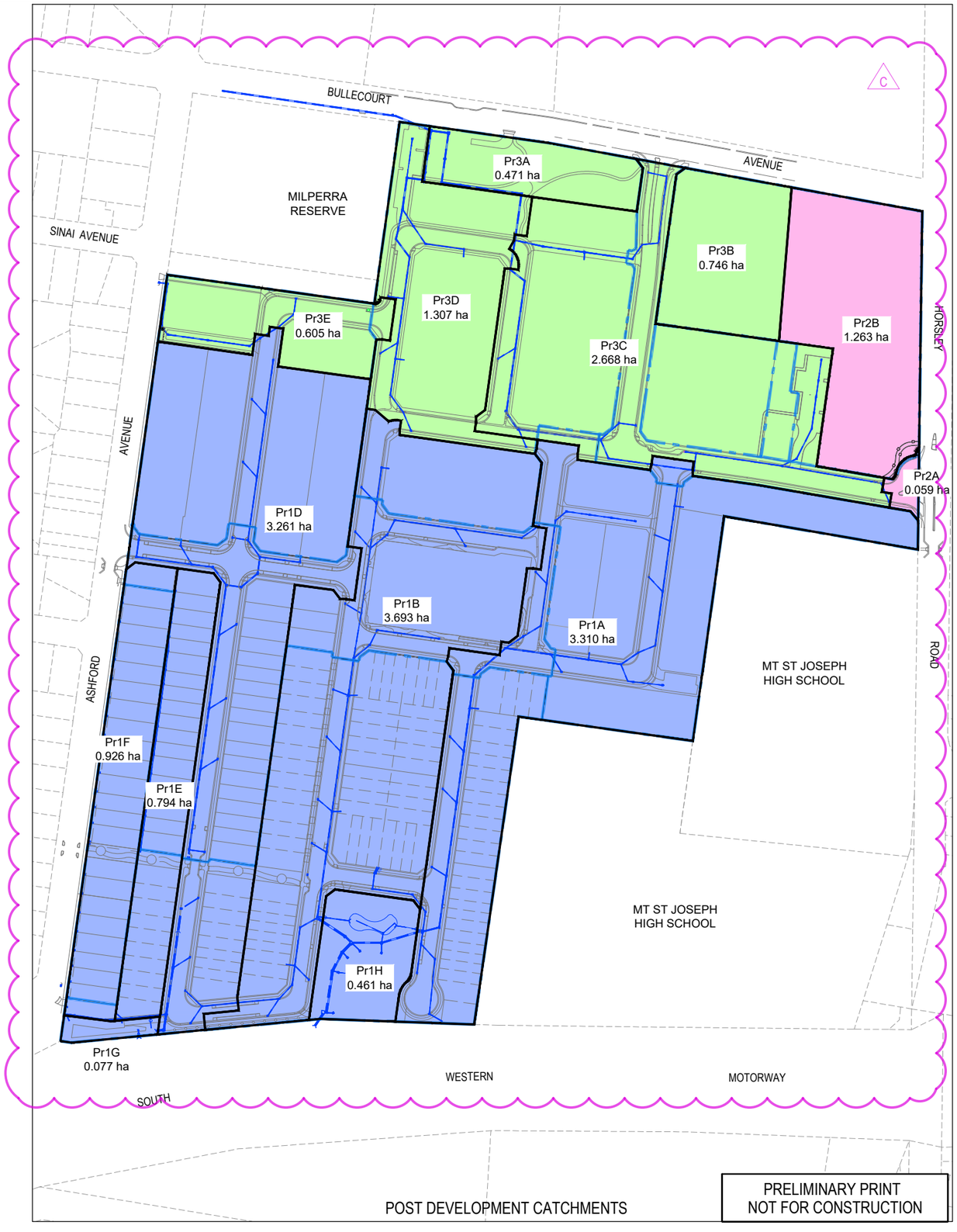
Scale: 1:200 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 511 | B |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-505-OSD.dwg




PRE-DEVELOPMENT CATCHMENTS




POST DEVELOPMENT CATCHMENTS

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 15 30 60 90 120
SCALE 1:1500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: OVERALL CATCHMENT PLAN

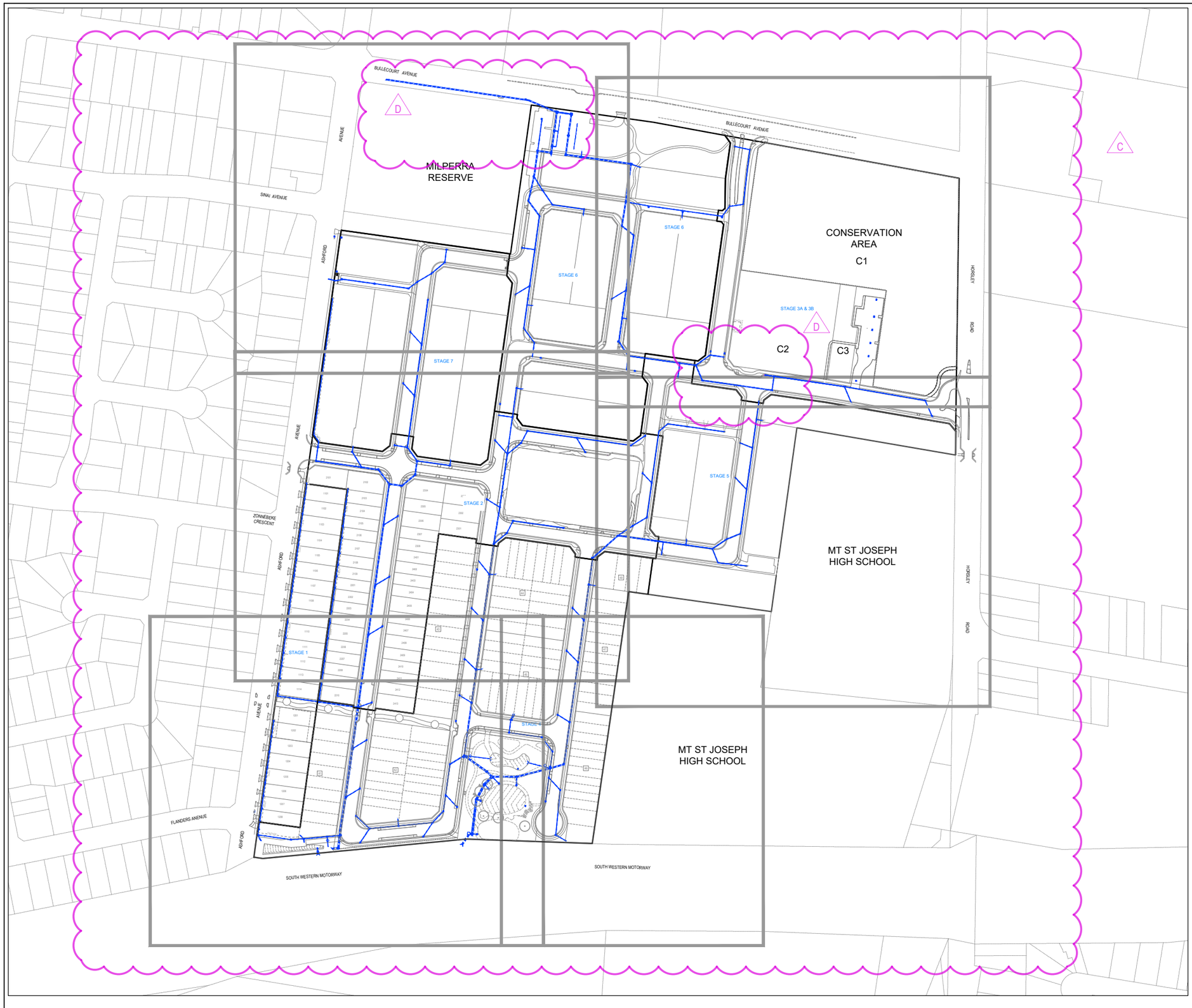
Sheet 108 of 162

Scale 1:1500 @ A1

N

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 550 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-550-CP.dwg




**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT. All rights reserved.
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| D | RESPONSE TO REQUEST FOR INFORMATION | 10.06.26 | GN | SG |
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 15 30 60 90 120
SCALE 1:1500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: OVERALL TRUNK DRAINAGE LAYOUT PLAN

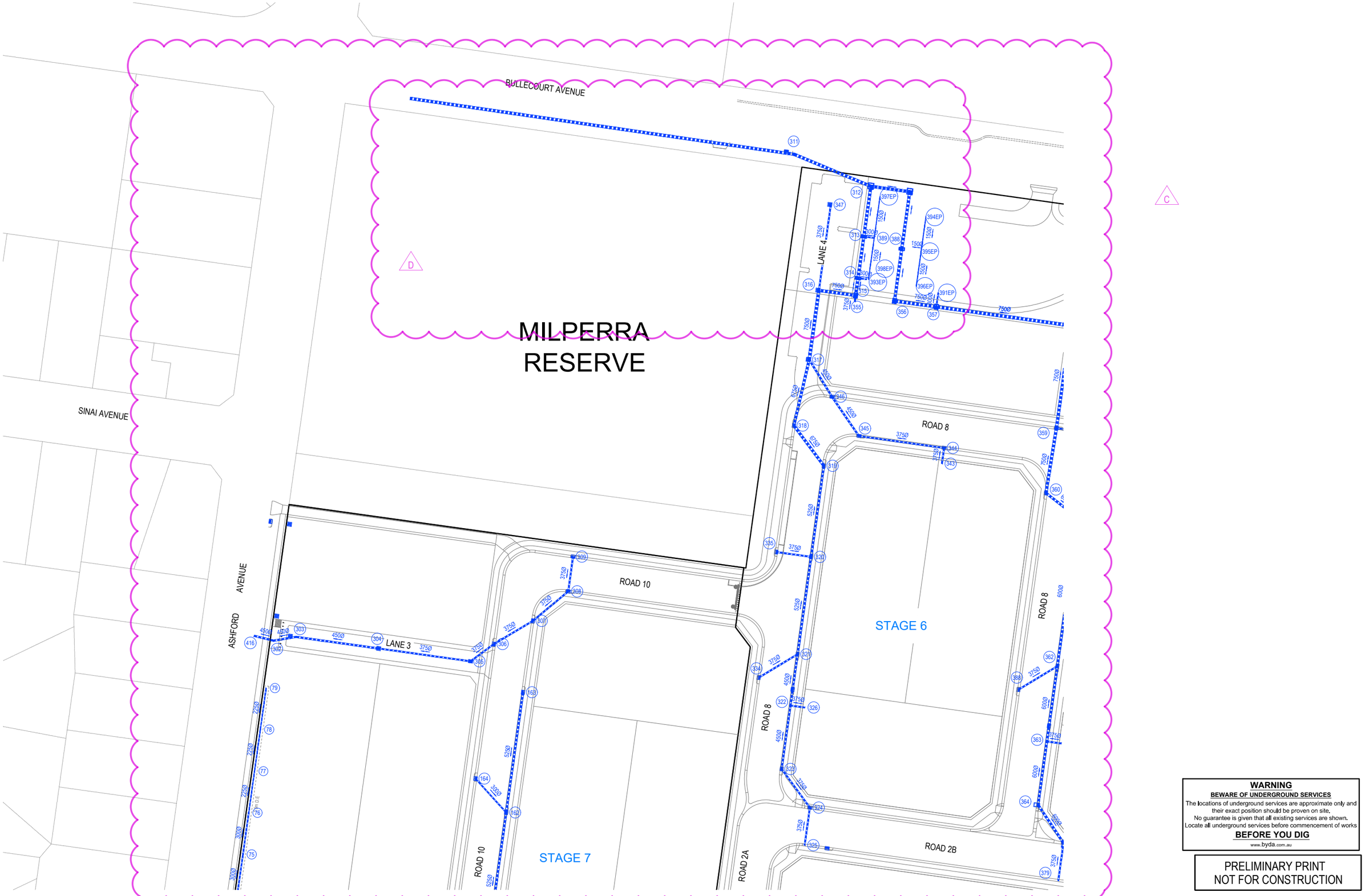
Sheet 109 of 162

Scale 1:1500 @ A1

N

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 590 | D |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-590-DRN.dwg




**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| D | RESPONSE TO REQUEST FOR INFORMATION | 10.06.26 | GN | SG |
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2 & 2A BULLECOURT AVENUE, MILPERRA

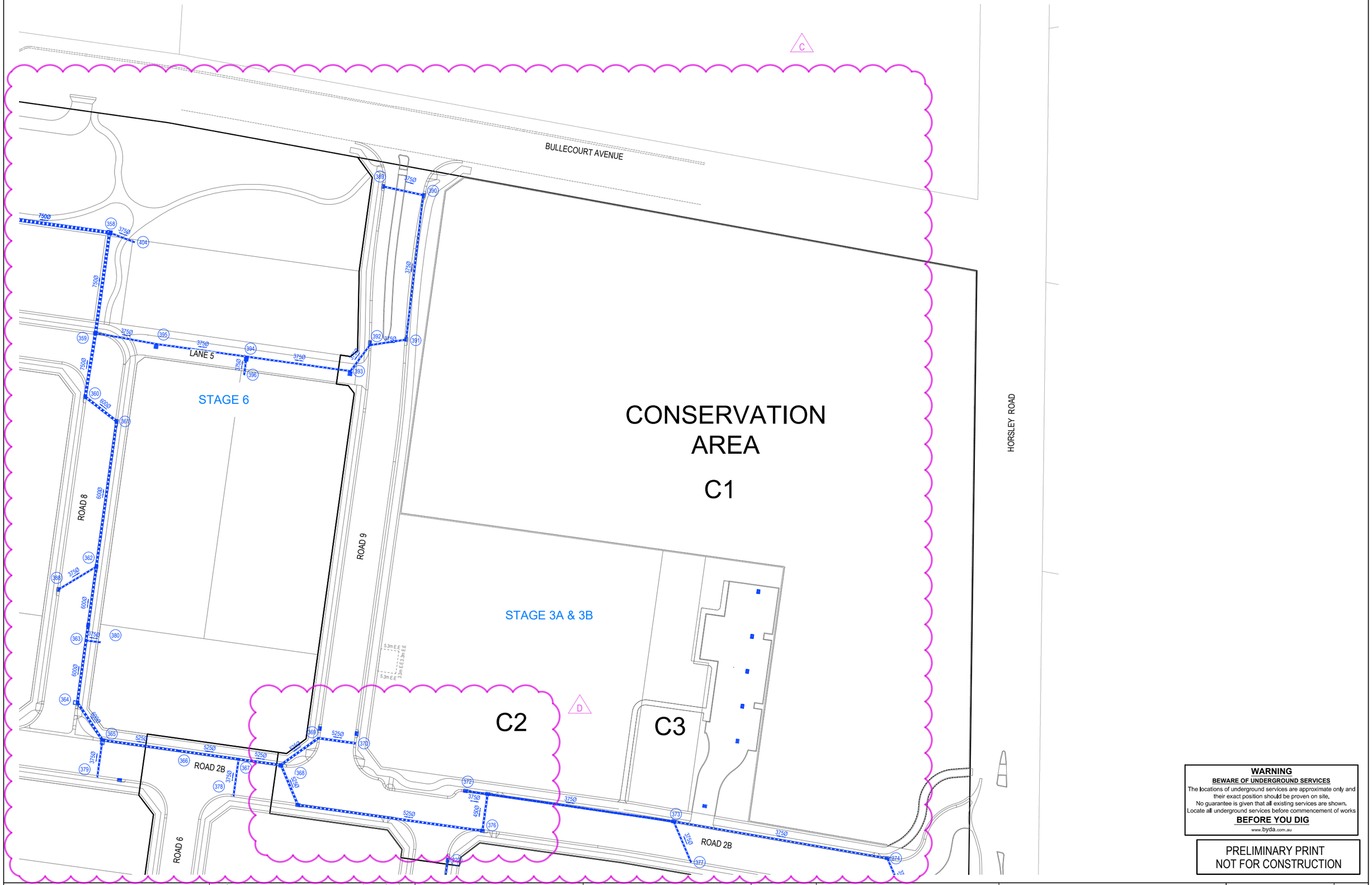
Drawing Title: DRAINAGE LAYOUT PLAN SHEET 1 OF 6

Sheet 110 of 162

Scale: 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 591 | D |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-590-DRN.dwg




**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| D | RESPONSE TO REQUEST FOR INFORMATION | 10.06.26 | GN | SG |
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2 & 2A BULLECOURT AVENUE, MILPERRA

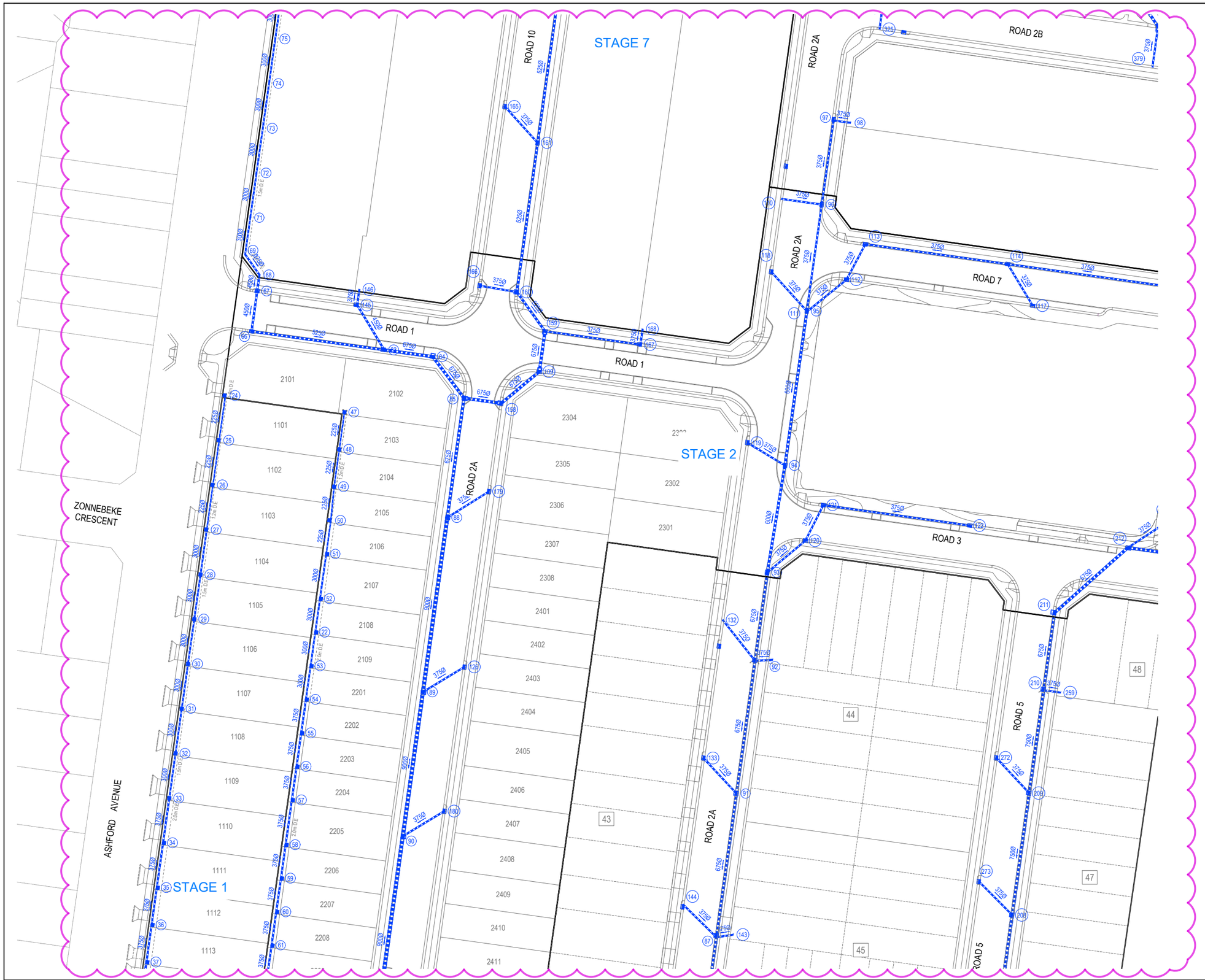
Drawing Title: DRAINAGE LAYOUT PLAN SHEET 2 OF 6

Sheet 111 of 162

Scale: 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 592 | D |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-590-DRN.dwg




C

**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: DRAINAGE LAYOUT PLAN
SHEET 3 OF 6

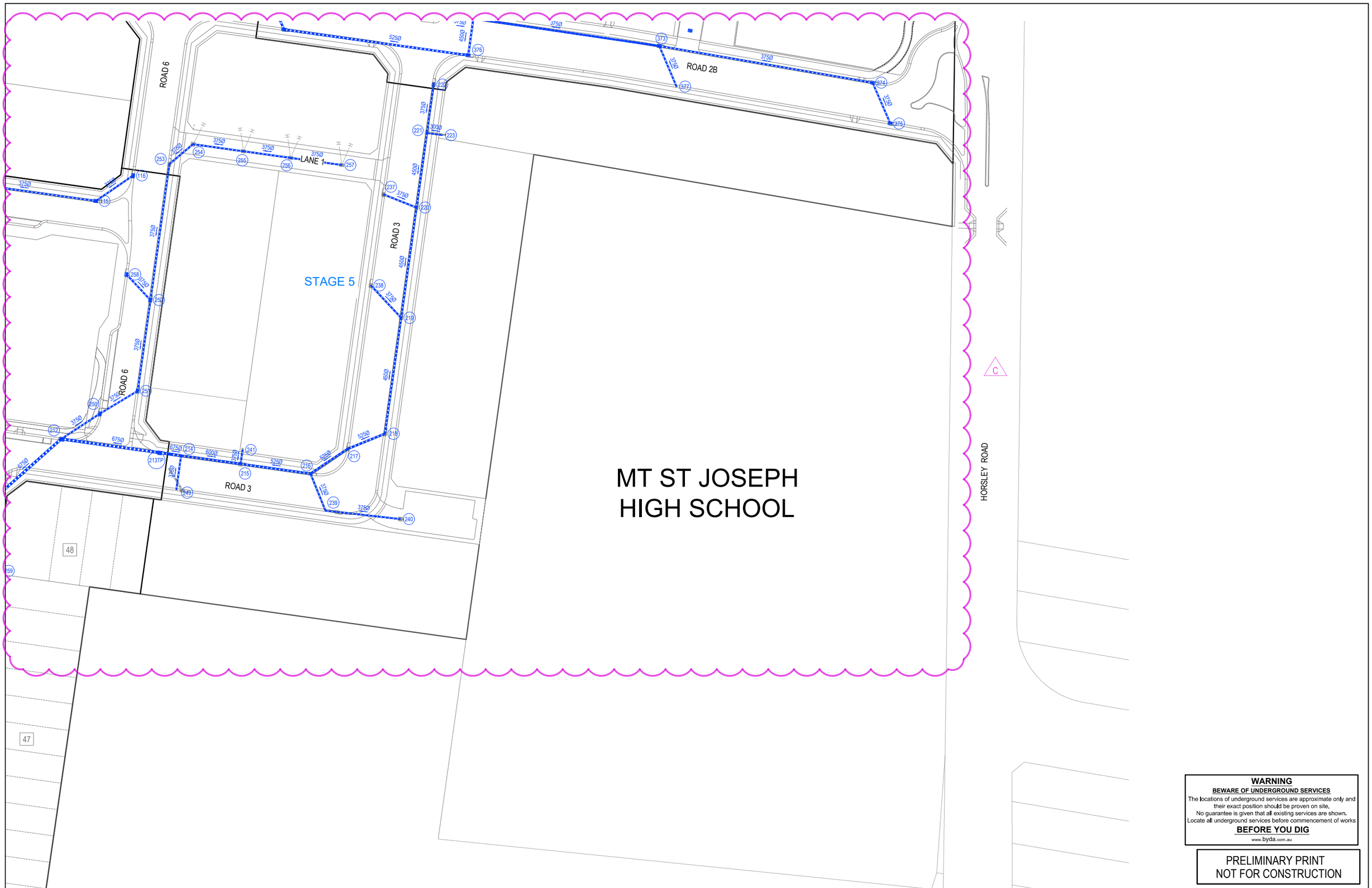
Sheet 112 of 162

Scale: 1:500 @ A1

N

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 593 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-590-DRN.dwg




**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

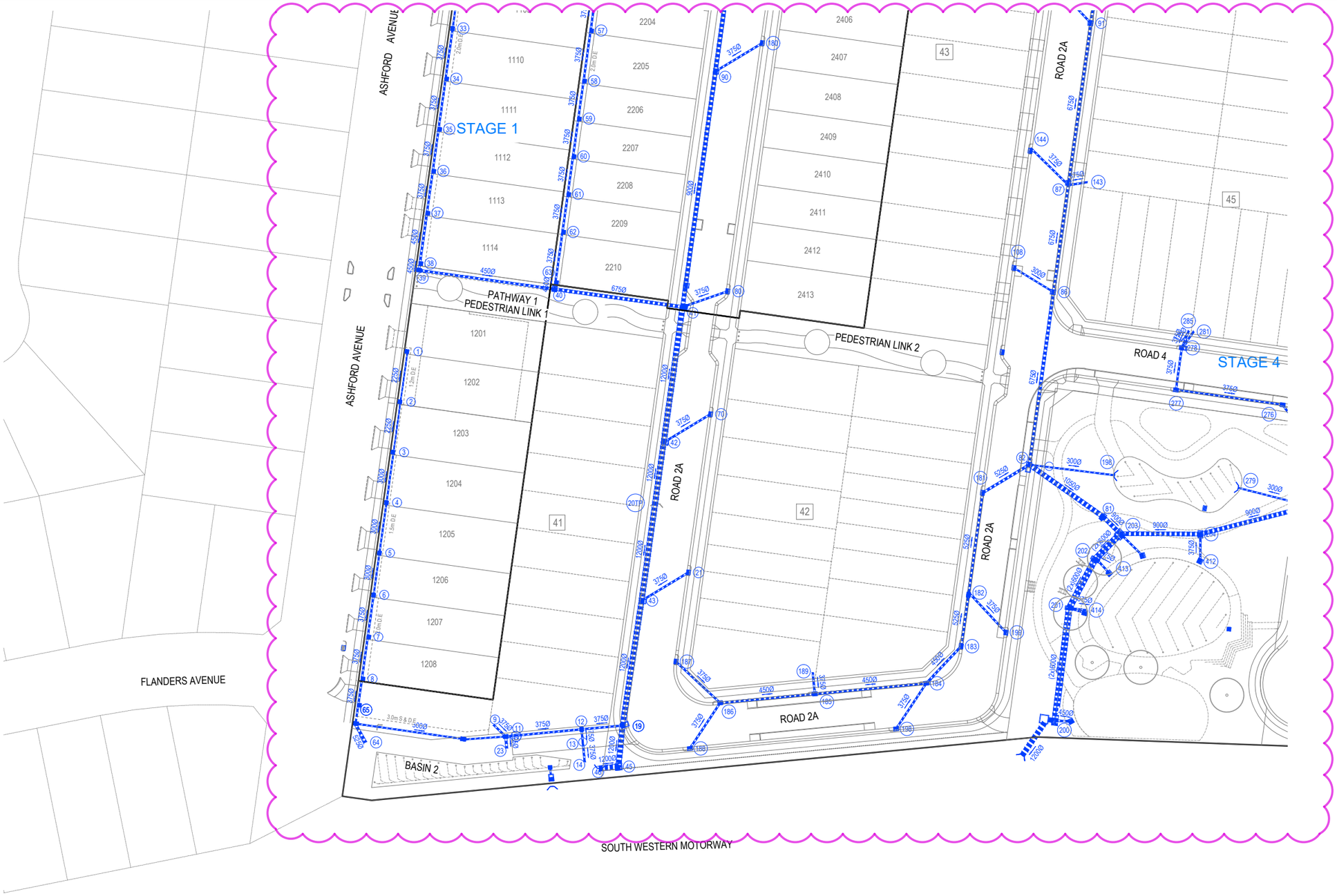
Drawing Title: DRAINAGE LAYOUT PLAN
SHEET 4 OF 6

Sheet 113 of 162

Scale: 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 594 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-590-DRN.dwg




C

**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site,
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: DRAINAGE LAYOUT PLAN
SHEET 5 OF 6

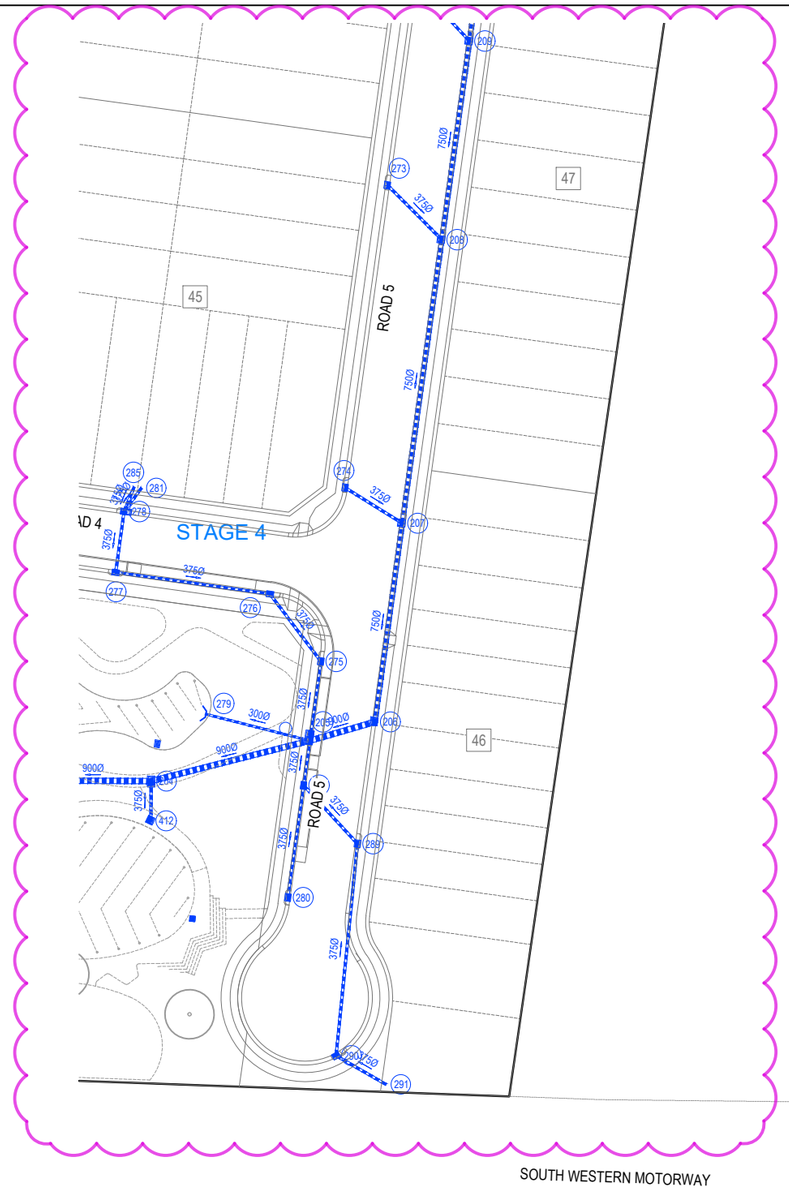
Sheet 114 of 162

Scale: 1:500 @ A1

N

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 595 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-595-DRN.dwg




C

# MT ST JOSEPH HIGH SCHOOL

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: DRAINAGE LAYOUT PLAN
SHEET 6 OF 6

Sheet 115 of 162

Scale: 1:500 @ A1

N

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 596 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-590-DRN.dwg

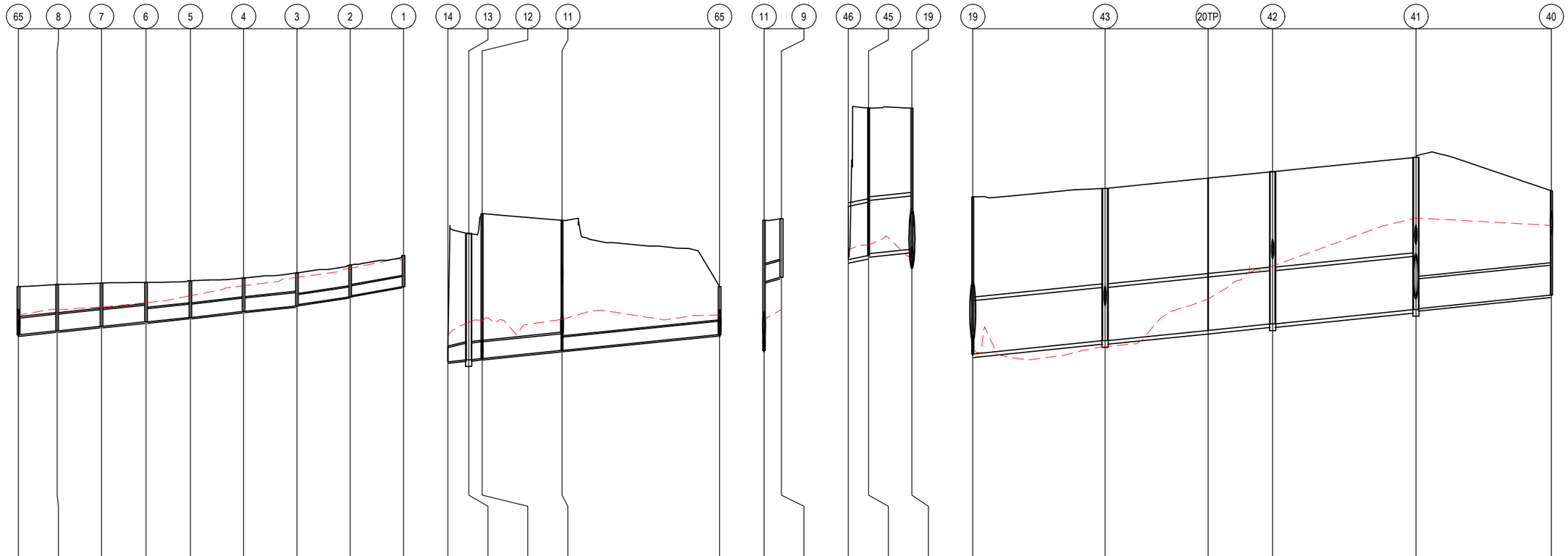
STORMWATER LONGSECTIONS SHOWN TO ILLUSTRATE THAT GRADING IS POSSIBLE. PIPE SIZES ARE INDICATIVE ONLY AND SUBJECT TO HYDRAULIC DESIGN.

D

NOTES:
1. ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.
2. ALL STORMWATER SHALL BE IN ACCORDANCE WITH CANTEBURY BANKSTOWN DEVELOPMENT CONTROL PLAN 2023

LEGEND
- EXISTING SURFACE
- DESIGN SURFACE

C




| | | |

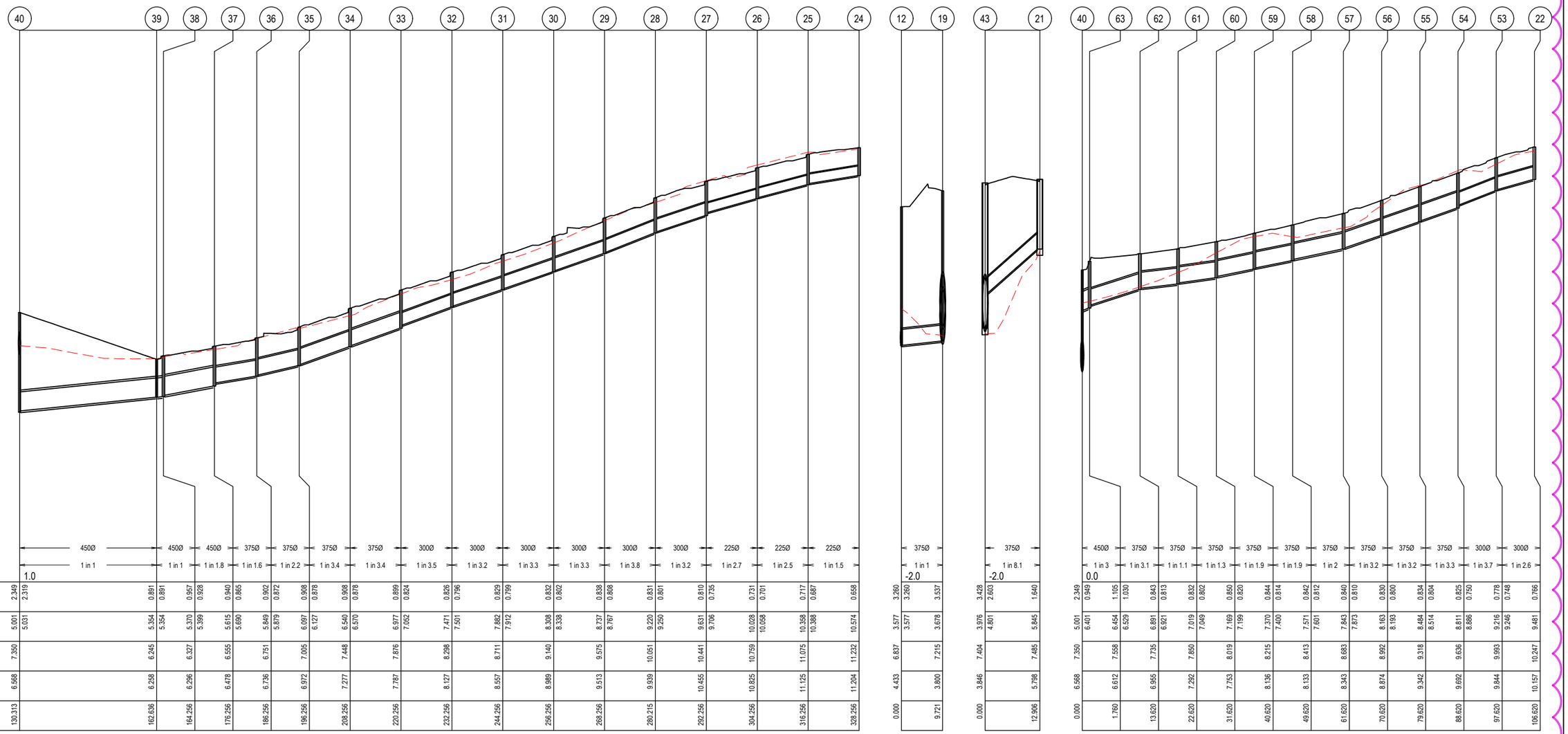
STORMWATER LONGSECTIONS SHOWN TO ILLUSTRATE THAT GRADING IS POSSIBLE. PIPE SIZES ARE INDICATIVE ONLY AND SUBJECT TO HYDRAULIC DESIGN.

D

C

NOTES:
1. ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.
2. ALL STORMWATER SHALL BE IN ACCORDANCE WITH CANTEBURY BANKSTOWN DEVELOPMENT CONTROL PLAN 2023

LEGEND
- EXISTING SURFACE
- DESIGN SURFACE



| | | |

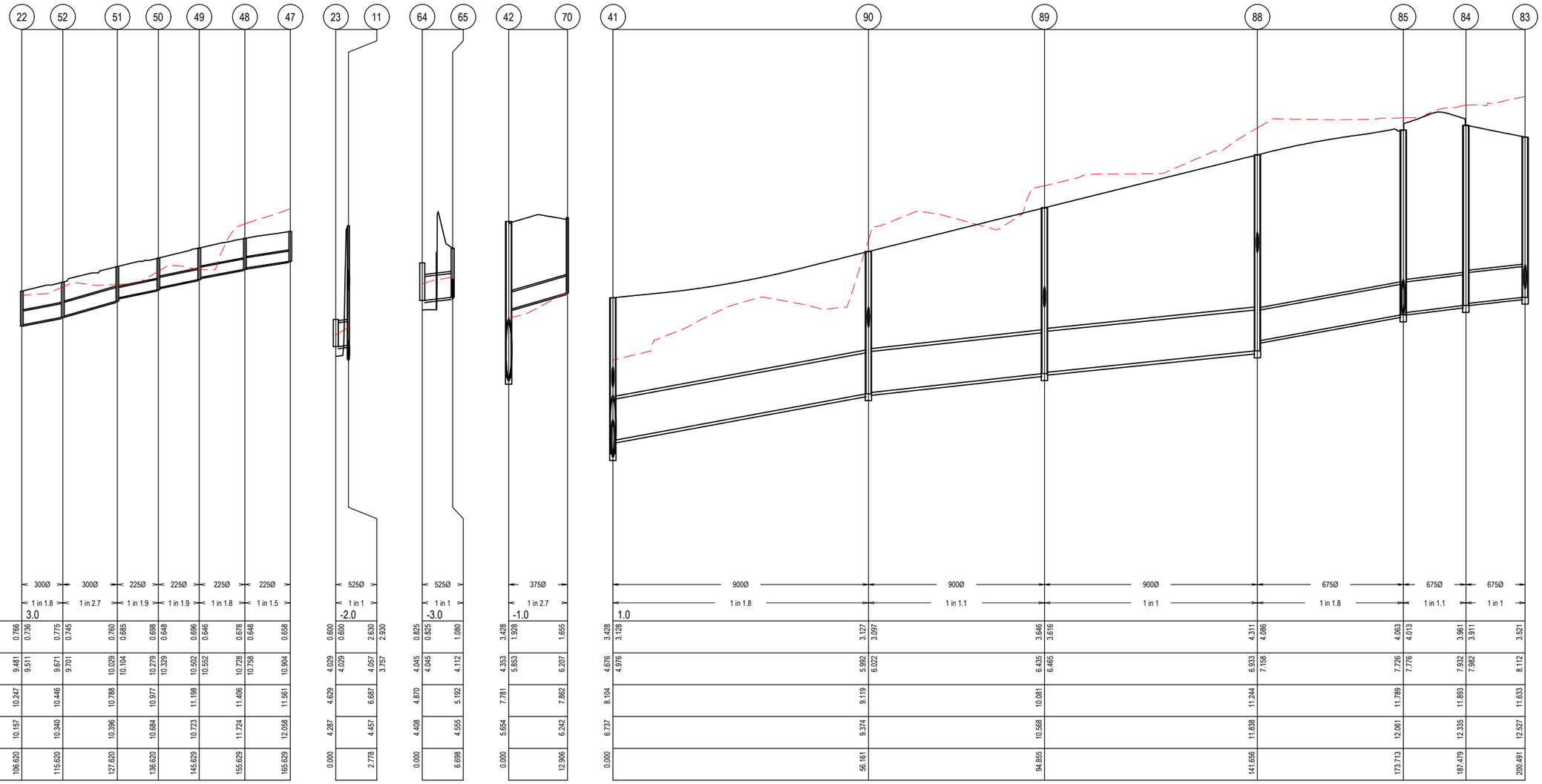
STORMWATER LONGSECTIONS SHOWN TO ILLUSTRATE THAT GRADING IS POSSIBLE. PIPE SIZES ARE INDICATIVE ONLY AND SUBJECT TO HYDRAULIC DESIGN.

D

C

NOTES:
1. ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.
2. ALL STORMWATER SHALL BE IN ACCORDANCE WITH CANTEBURY BANKSTOWN DEVELOPMENT CONTROL PLAN 2023

LEGEND
- EXISTING SURFACE
- DESIGN SURFACE



| | | |

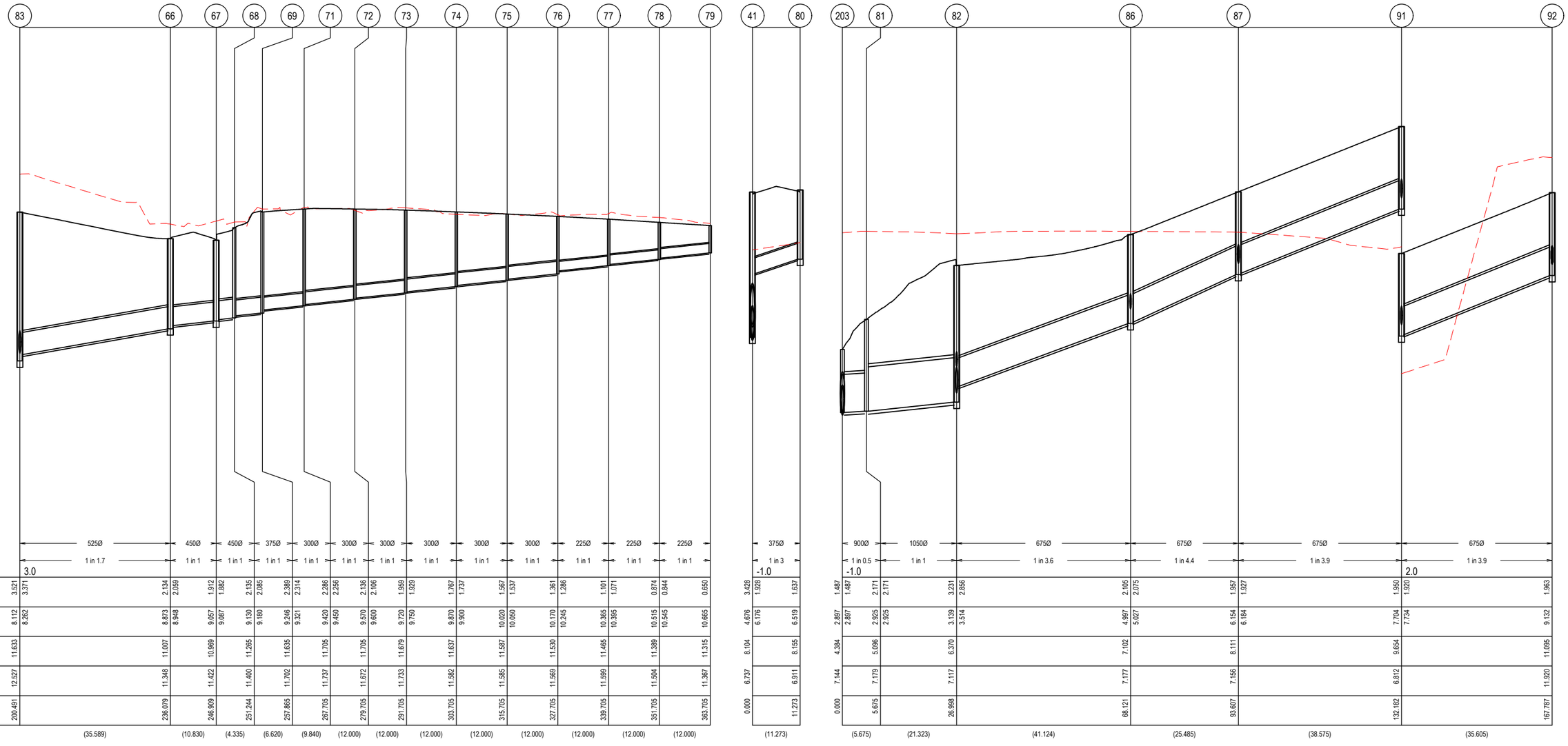
STORMWATER LONGSECTIONS SHOWN TO ILLUSTRATE THAT GRADING IS POSSIBLE. PIPE SIZES ARE INDICATIVE ONLY AND SUBJECT TO HYDRAULIC DESIGN.

D

C

NOTES:
1. ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.
2. ALL STORMWATER SHALL BE IN ACCORDANCE WITH CANTEBURY BANKSTOWN DEVELOPMENT CONTROL PLAN 2023

LEGEND
- EXISTING SURFACE
- DESIGN SURFACE



| | | |

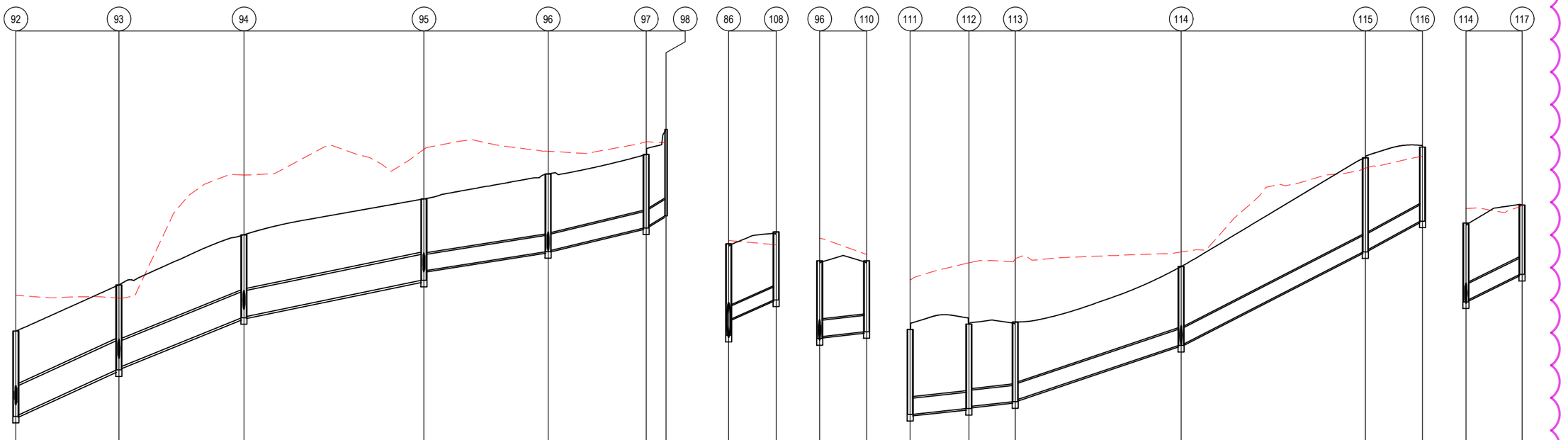
STORMWATER LONGSECTIONS SHOWN TO ILLUSTRATE THAT GRADING IS POSSIBLE. PIPE SIZES ARE INDICATIVE ONLY AND SUBJECT TO HYDRAULIC DESIGN.

D

C

NOTES:
1. ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.
2. ALL STORMWATER SHALL BE IN ACCORDANCE WITH CANTEBURY BANKSTOWN DEVELOPMENT CONTROL PLAN 2023

LEGEND
- EXISTING SURFACE
- DESIGN SURFACE




| | | |

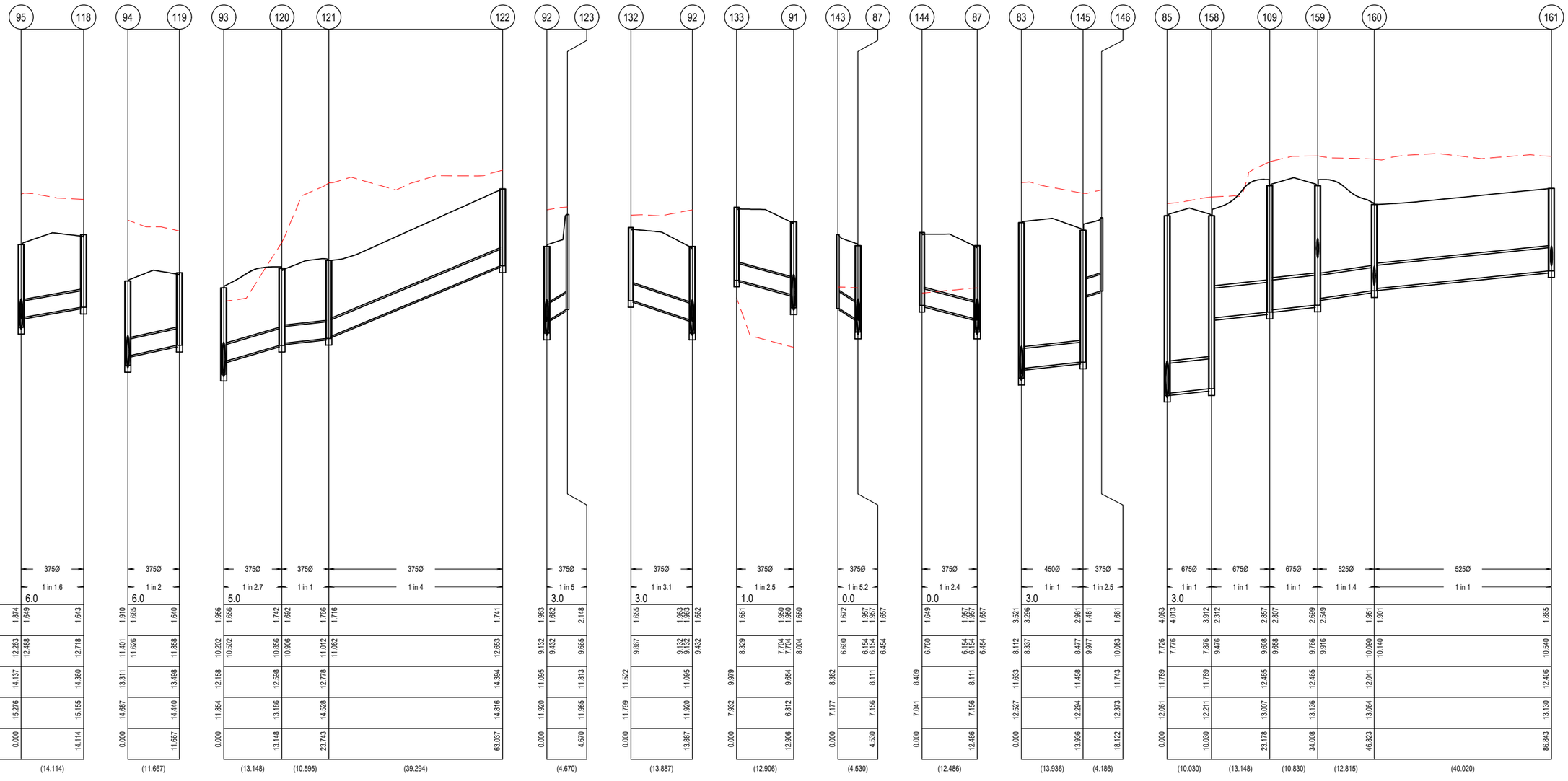
STORMWATER LONGSECTIONS SHOWN TO ILLUSTRATE THAT GRADING IS POSSIBLE. PIPE SIZES ARE INDICATIVE ONLY AND SUBJECT TO HYDRAULIC DESIGN.

D

C

NOTES:
1. ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.
2. ALL STORMWATER SHALL BE IN ACCORDANCE WITH CANTEBURY BANKSTOWN DEVELOPMENT CONTROL PLAN 2023

LEGEND
- EXISTING SURFACE
- DESIGN SURFACE




PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| D | RESPONSE TO REQUEST FOR INFORMATION | 10.06.26 | GN | SG |
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

HORIZ 1:500 0 5 10 20 30
VERT 1:50 0 0.5 1 2 3
SCALE AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: DRAINAGE LONGITUDINAL SECTIONS SHEET 6 OF 16

Sheet 121 of 162

Scale 1:500 H 1:50 V @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 606 | D |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-600-DLS.dwg

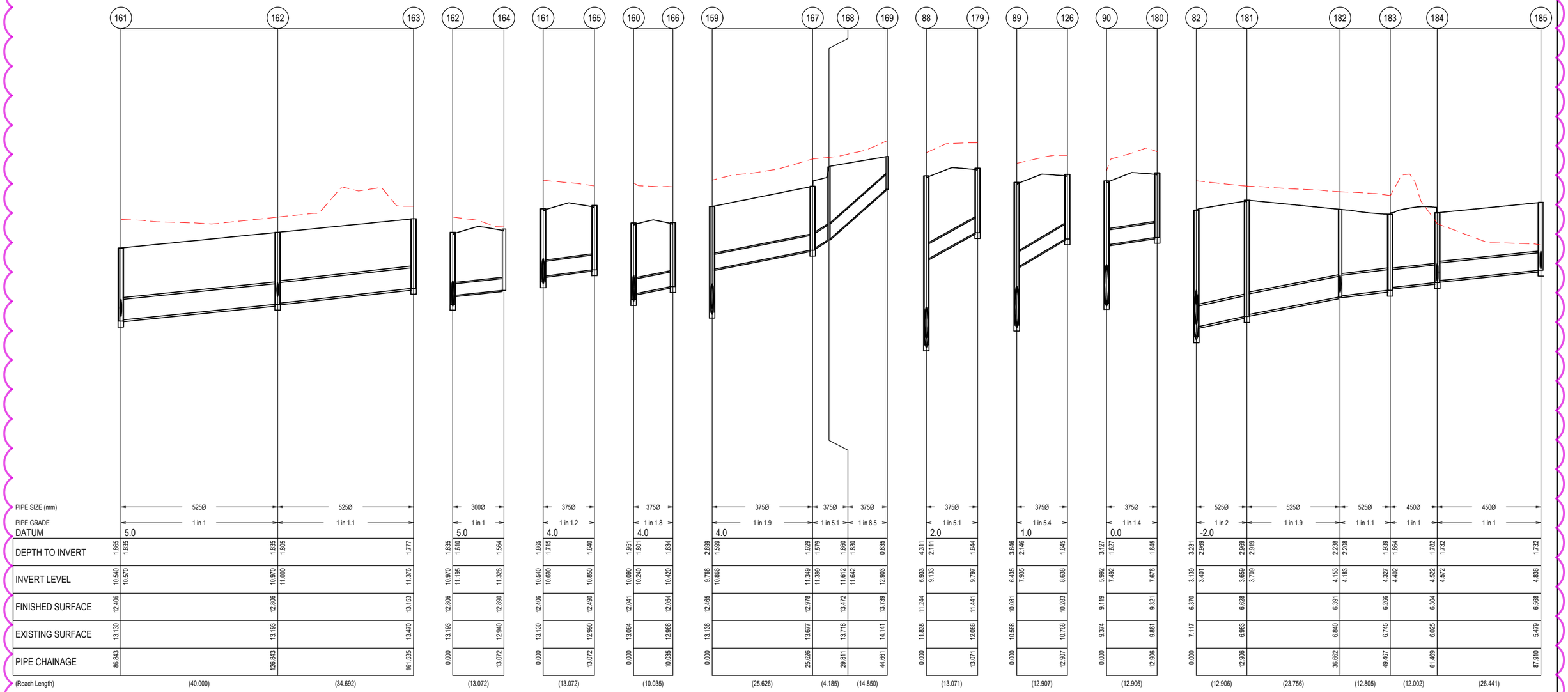
STORMWATER LONGSECTIONS SHOWN TO ILLUSTRATE THAT GRADING IS POSSIBLE. PIPE SIZES ARE INDICATIVE ONLY AND SUBJECT TO HYDRAULIC DESIGN.

D

C

NOTES:
1. ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.
2. ALL STORMWATER SHALL BE IN ACCORDANCE WITH CANTEBURY BANKSTOWN DEVELOPMENT CONTROL PLAN 2023

LEGEND
- EXISTING SURFACE
- DESIGN SURFACE



| | | |

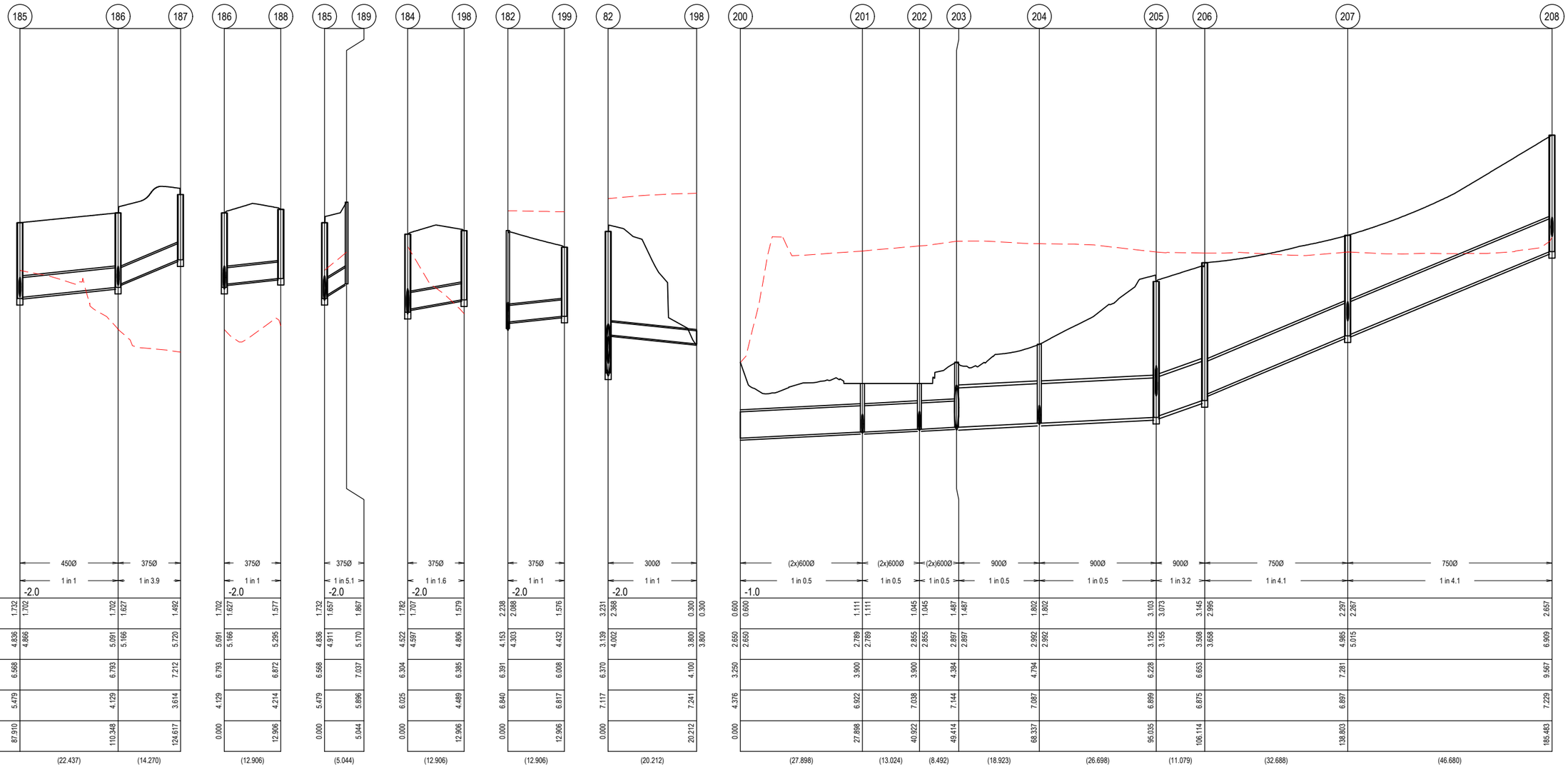
STORMWATER LONGSECTIONS SHOWN TO ILLUSTRATE THAT GRADING IS POSSIBLE. PIPE SIZES ARE INDICATIVE ONLY AND SUBJECT TO HYDRAULIC DESIGN.

D

C

NOTES:
1. ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.
2. ALL STORMWATER SHALL BE IN ACCORDANCE WITH CANTEBURY BANKSTOWN DEVELOPMENT CONTROL PLAN 2023

LEGEND
- EXISTING SURFACE
- DESIGN SURFACE




| | | |

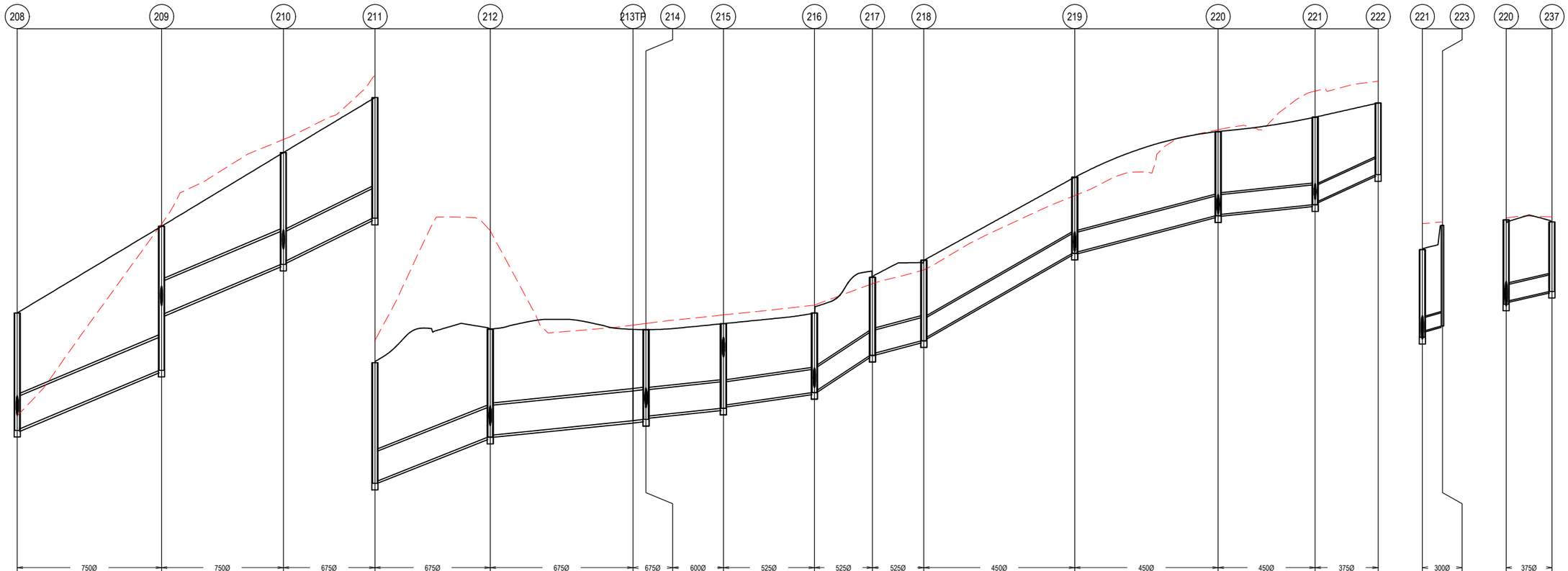
STORMWATER LONGSECTIONS SHOWN TO ILLUSTRATE THAT GRADING IS POSSIBLE. PIPE SIZES ARE INDICATIVE ONLY AND SUBJECT TO HYDRAULIC DESIGN.

D

C

NOTES:
1. ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.
2. ALL STORMWATER SHALL BE IN ACCORDANCE WITH CANTEBURY BANKSTOWN DEVELOPMENT CONTROL PLAN 2023

LEGEND
- EXISTING SURFACE
- DESIGN SURFACE




| | | |

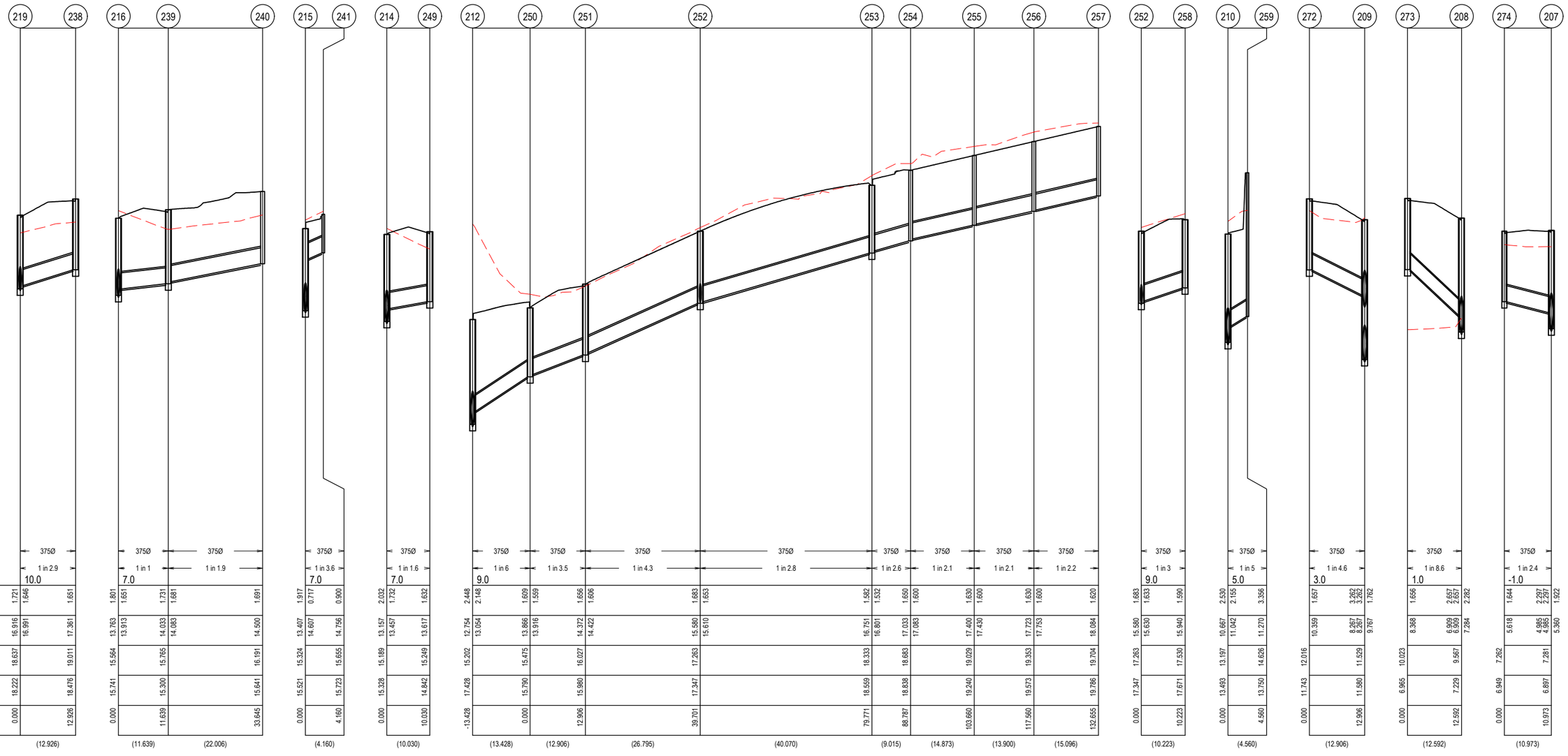
STORMWATER LONGSECTIONS SHOWN TO ILLUSTRATE THAT GRADING IS POSSIBLE. PIPE SIZES ARE INDICATIVE ONLY AND SUBJECT TO HYDRAULIC DESIGN.

D

C

NOTES:
1. ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.
2. ALL STORMWATER SHALL BE IN ACCORDANCE WITH CANTEBURY BANKSTOWN DEVELOPMENT CONTROL PLAN 2023

LEGEND
- EXISTING SURFACE
- DESIGN SURFACE



| | | |

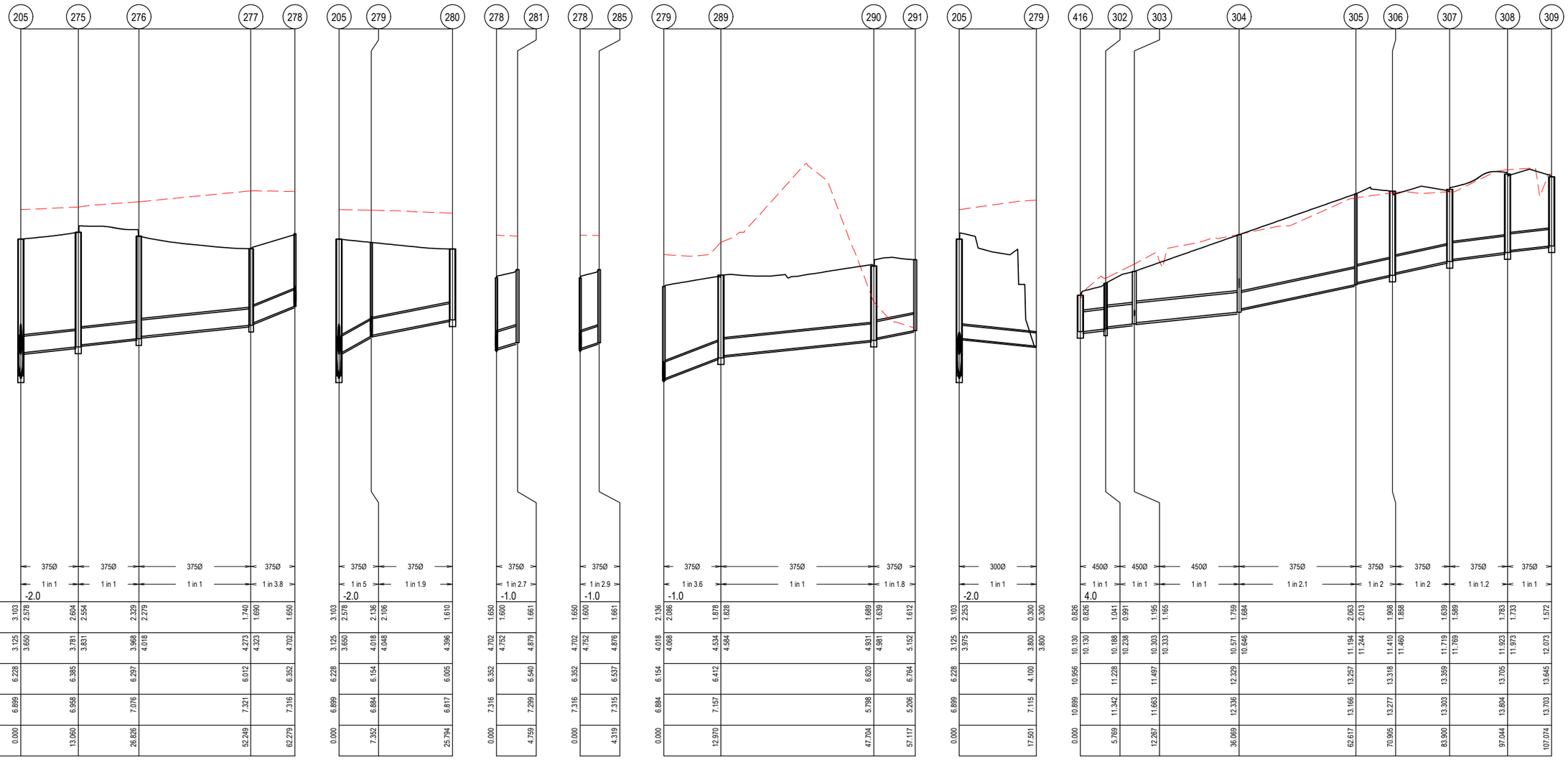
STORMWATER LONGSECTIONS SHOWN TO ILLUSTRATE THAT GRADING IS POSSIBLE. PIPE SIZES ARE INDICATIVE ONLY AND SUBJECT TO HYDRAULIC DESIGN.

D

C

NOTES:
1. ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.
2. ALL STORMWATER SHALL BE IN ACCORDANCE WITH CANTEBURY BANKSTOWN DEVELOPMENT CONTROL PLAN 2023

LEGEND
- EXISTING SURFACE
- DESIGN SURFACE




| | | |

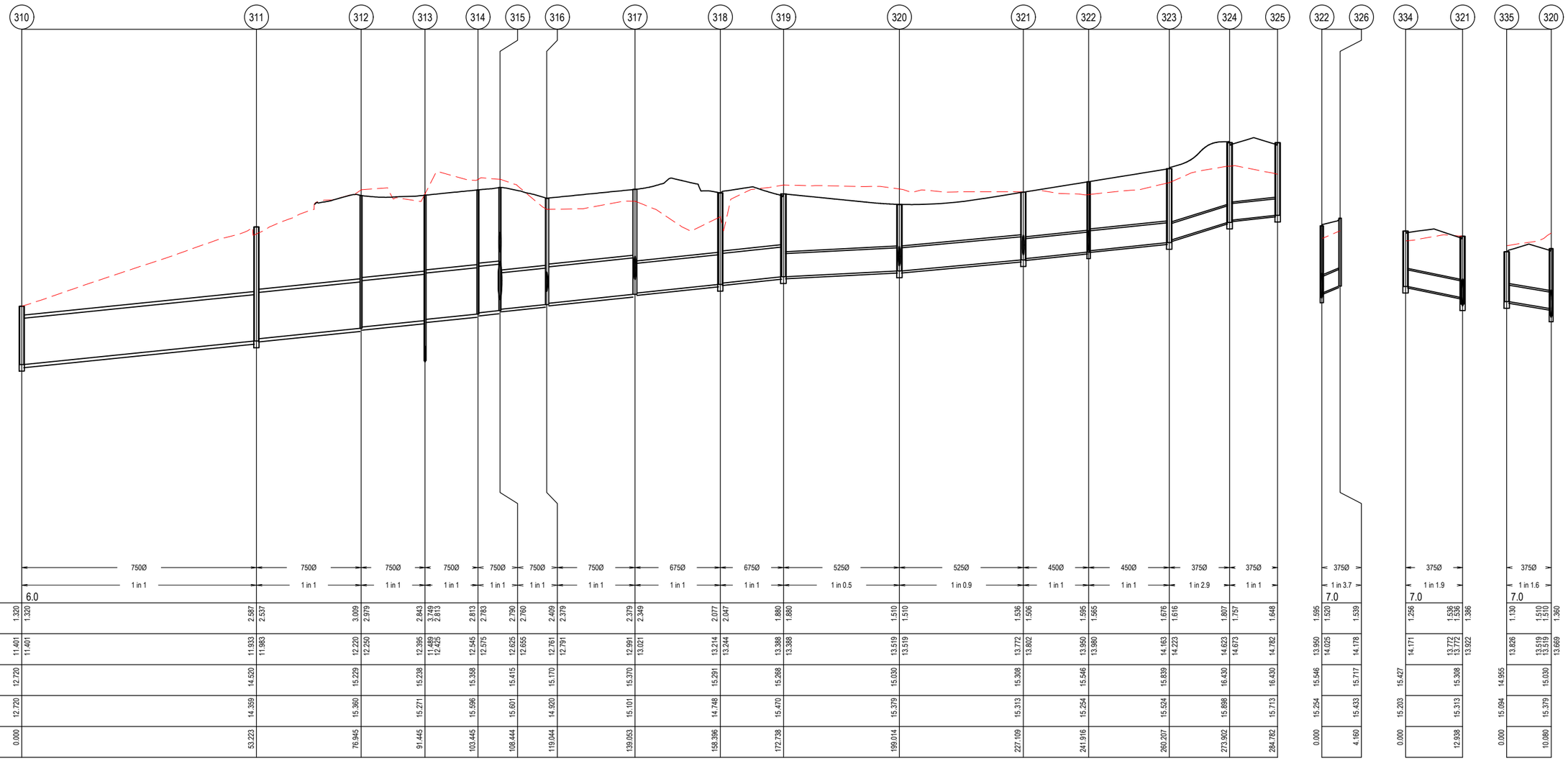
D

STORMWATER LONGSECTIONS SHOWN TO ILLUSTRATE THAT GRADING IS POSSIBLE. PIPE SIZES ARE INDICATIVE ONLY AND SUBJECT TO HYDRAULIC DESIGN.

NOTES:
1. ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.
2. ALL STORMWATER SHALL BE IN ACCORDANCE WITH CANTEBURY BANKSTOWN DEVELOPMENT CONTROL PLAN 2023

LEGEND
- EXISTING SURFACE
- DESIGN SURFACE

C



| | | |

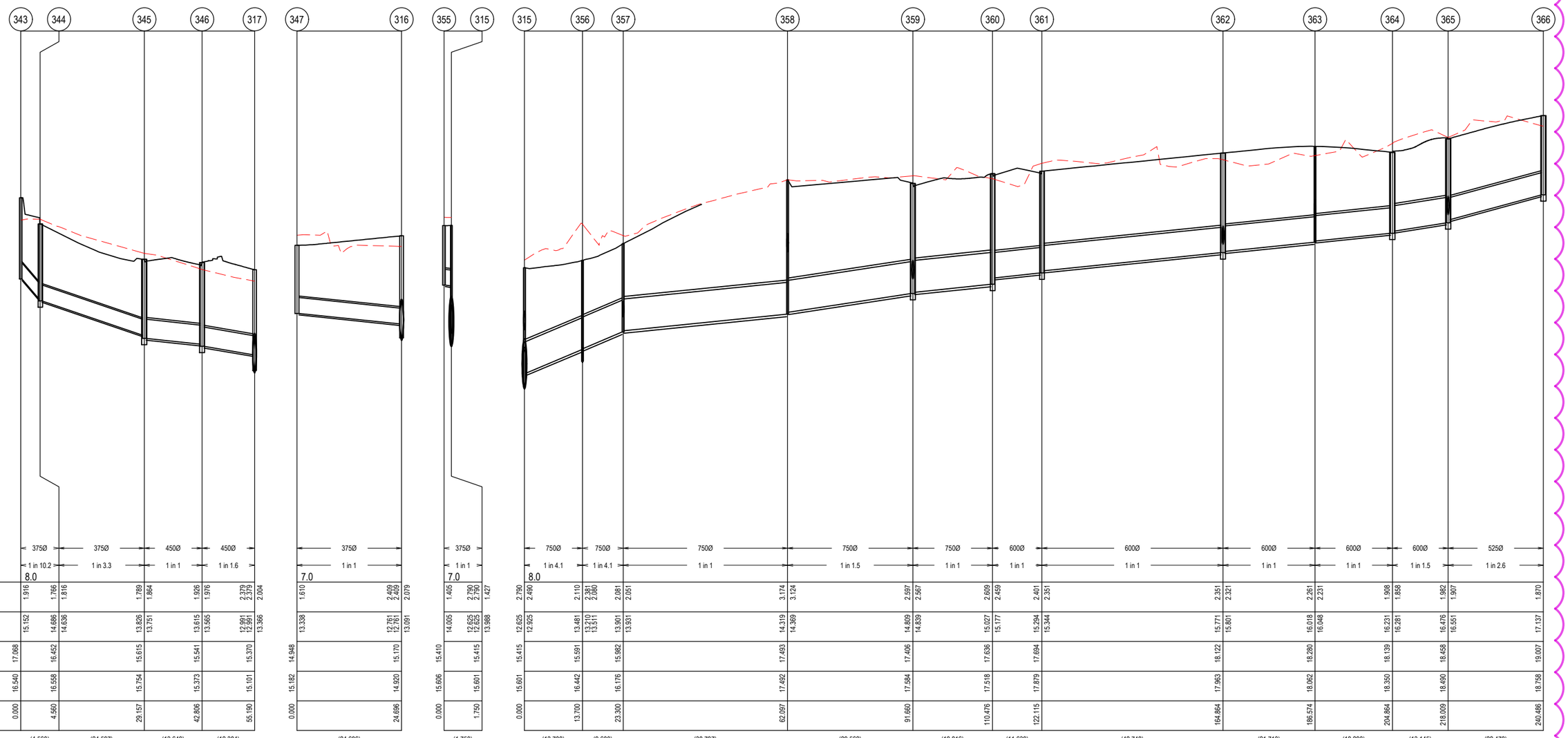
STORMWATER LONGSECTIONS SHOWN TO ILLUSTRATE THAT GRADING IS POSSIBLE. PIPE SIZES ARE INDICATIVE ONLY AND SUBJECT TO HYDRAULIC DESIGN.

D

C

NOTES:
1. ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.
2. ALL STORMWATER SHALL BE IN ACCORDANCE WITH CANTEBURY BANKSTOWN DEVELOPMENT CONTROL PLAN 2023

LEGEND
- EXISTING SURFACE
- DESIGN SURFACE



| | | |

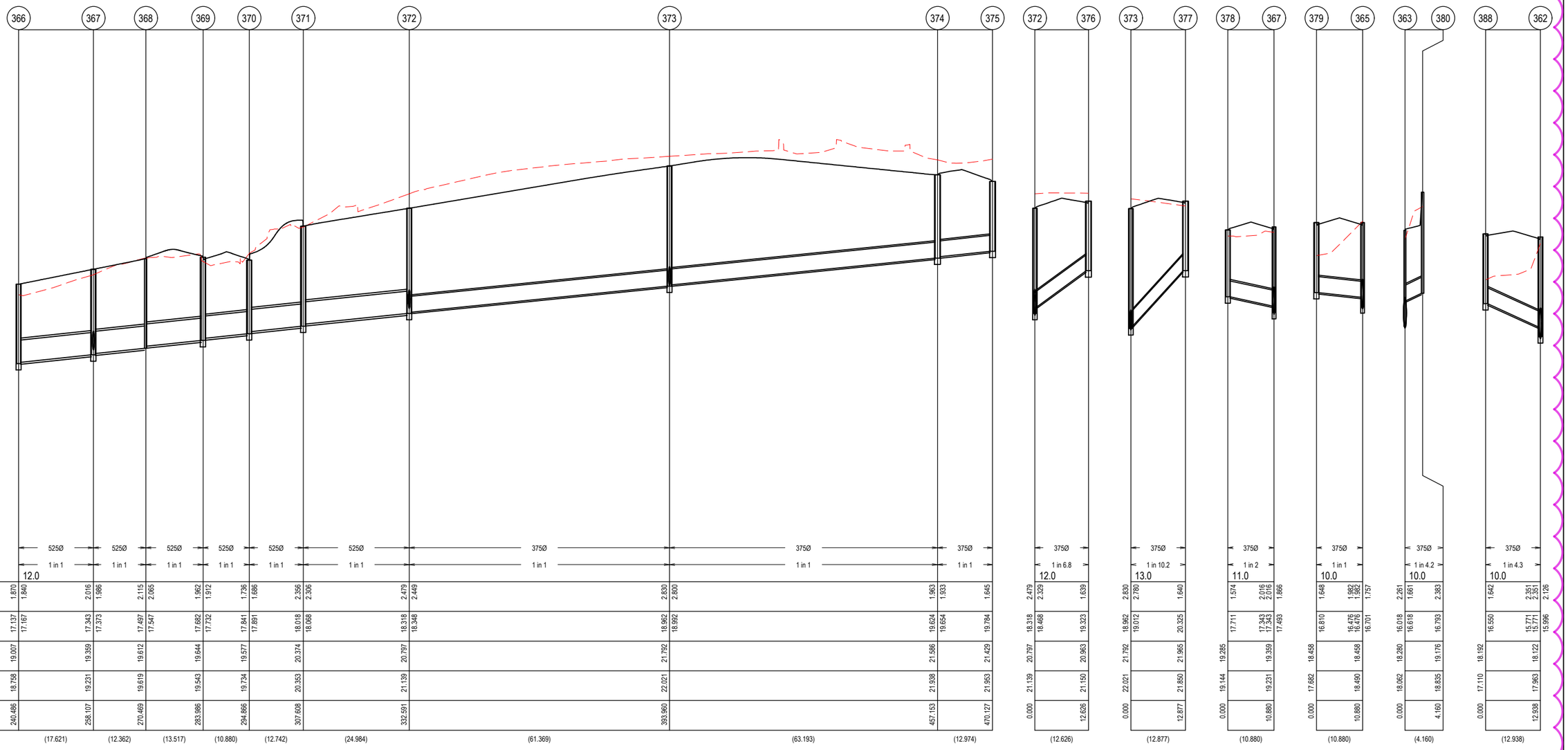
STORMWATER LONGSECTIONS SHOWN TO ILLUSTRATE THAT GRADING IS POSSIBLE. PIPE SIZES ARE INDICATIVE ONLY AND SUBJECT TO HYDRAULIC DESIGN.

D

C

NOTES:
1. ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.
2. ALL STORMWATER SHALL BE IN ACCORDANCE WITH CANTEBURY BANKSTOWN DEVELOPMENT CONTROL PLAN 2023

LEGEND
- EXISTING SURFACE
- DESIGN SURFACE



| | | |

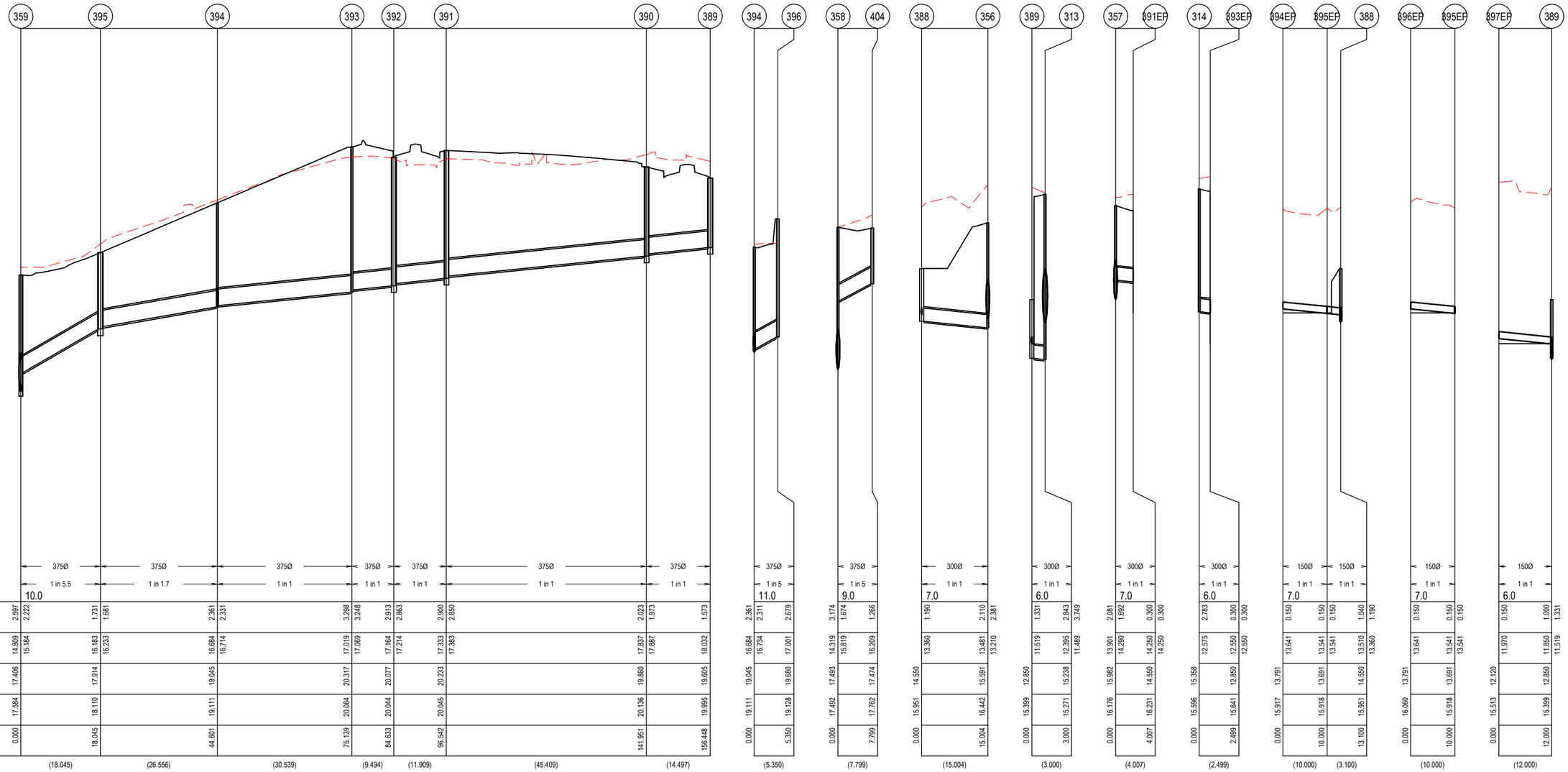
STORMWATER LONGSECTIONS SHOWN TO ILLUSTRATE THAT GRADING IS POSSIBLE. PIPE SIZES ARE INDICATIVE ONLY AND SUBJECT TO HYDRAULIC DESIGN.

D

C

NOTES:
1. ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.
2. ALL STORMWATER SHALL BE IN ACCORDANCE WITH CANTEBURY BANKSTOWN DEVELOPMENT CONTROL PLAN 2023

LEGEND
- EXISTING SURFACE
- DESIGN SURFACE




PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| D | RESPONSE TO REQUEST FOR INFORMATION | 10.06.26 | GN | SG |
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

HORIZ 1:500 0 5 10 20 30
VERT 1:50 0 0.5 1 2 3
SCALE AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: DRAINAGE LONGITUDINAL SECTIONS SHEET 15 OF 16

Sheet 130 of 162

Scale: 1:500 H 1:50 V @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 615 | D |

C:\12DWS\data\MELSQL01\Eng - 321_357\8\Drawings\2301879-321-600-DLS.dwg

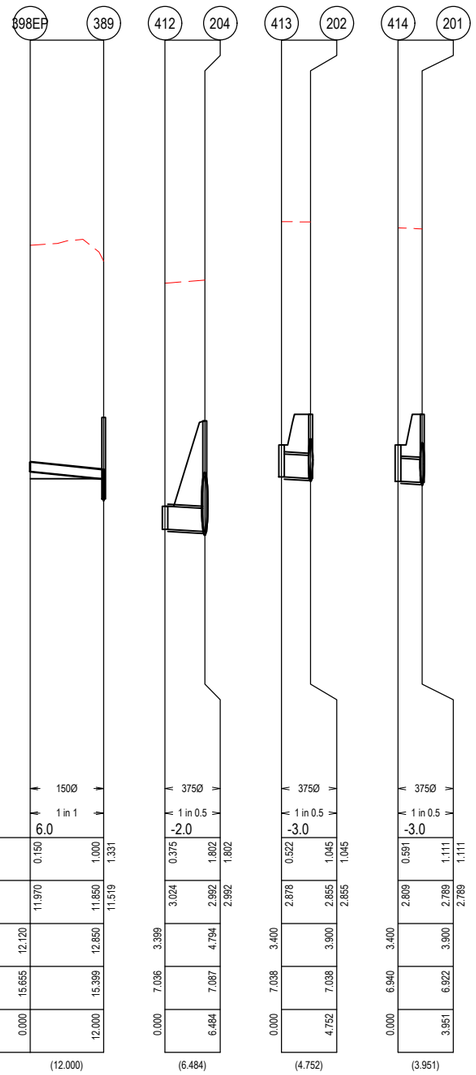
D

STORMWATER LONGSECTIONS SHOWN TO ILLUSTRATE THAT GRADING IS POSSIBLE. PIPE SIZES ARE INDICATIVE ONLY AND SUBJECT TO HYDRAULIC DESIGN.

NOTES:
1. ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.
2. ALL STORMWATER SHALL BE IN ACCORDANCE WITH CANTEBURY BANKSTOWN DEVELOPMENT CONTROL PLAN 2023

LEGEND
- EXISTING SURFACE
- DESIGN SURFACE

C




| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIPE SIZE (mm) | | 150Ø | | | 375Ø | | | 375Ø | | | 375Ø | | |
| PIPE GRADE | | 1 in 1 | | | 1 in 0.5 | | | 1 in 0.5 | | | 1 in 0.5 | | |
| DATUM | | 6.0 | | | -2.0 | | | -3.0 | | | -3.0 | | |
| DEPTH TO INVERT | 0.150 | | 1.000 | 1.331 | 0.375 | | 1.802 | 1.802 | 0.522 | 1.045 | 1.045 | 0.591 | 1.111 | 1.111 |
| INVERT LEVEL | 11.970 | | 11.850 | 11.519 | 3.024 | | 2.992 | 2.992 | 2.878 | 2.855 | 2.855 | 2.809 | 2.789 | 2.789 |
| FINISHED SURFACE | 12.120 | | 12.850 | | 3.399 | | 4.794 | | 3.400 | 3.900 | | 3.400 | 3.900 | |
| EXISTING SURFACE | 15.655 | | 15.399 | | 7.036 | | 7.087 | | 7.038 | 7.038 | | 6.940 | 6.922 | |
| PIPE CHAINAGE | 0.000 | | 12.000 | | 0.000 | | 6.484 | | 0.000 | 4.752 | | 0.000 | 3.951 | |
| (Reach Length) | | (12.000) | | | | (6.484) | | | | (4.752) | | | (3.951) | |

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| D | RESPONSE TO REQUEST FOR INFORMATION | 10.06.26 | GN | SG |
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

HORIZ 1:500 0 5 10 20 30
VERT 1:50 0 0.5 1 2 3
SCALE AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2 & 2A BULLECOURT AVENUE, MILPERRA

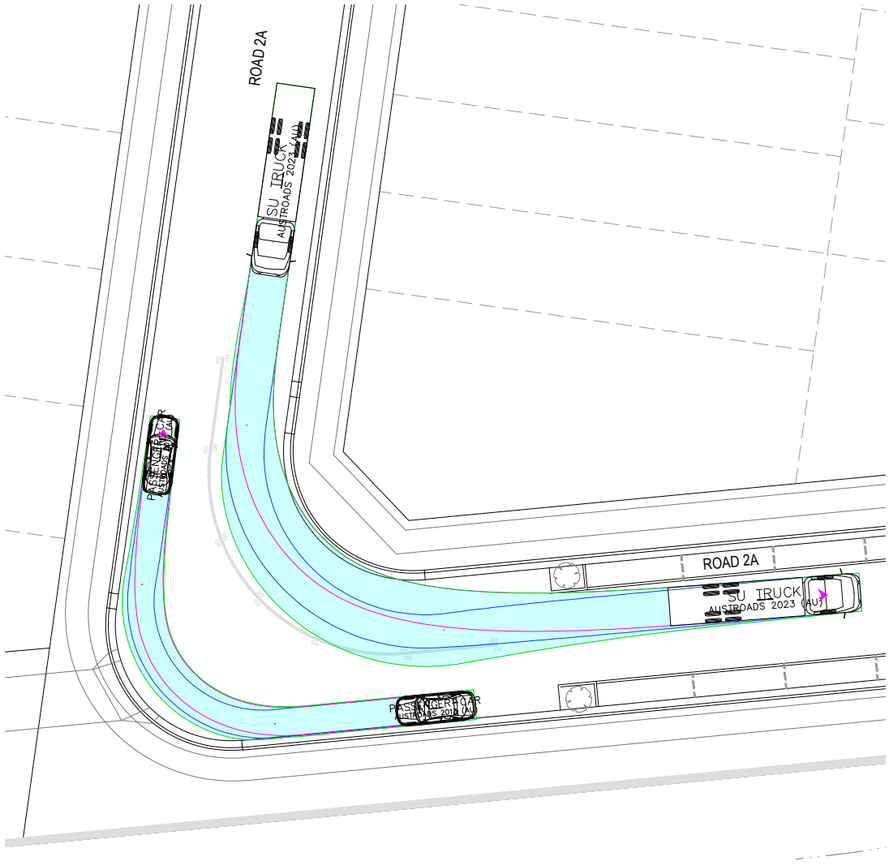
Drawing Title: DRAINAGE LONGITUDINAL SECTIONS SHEET 16 OF 16

Sheet 131 of 162

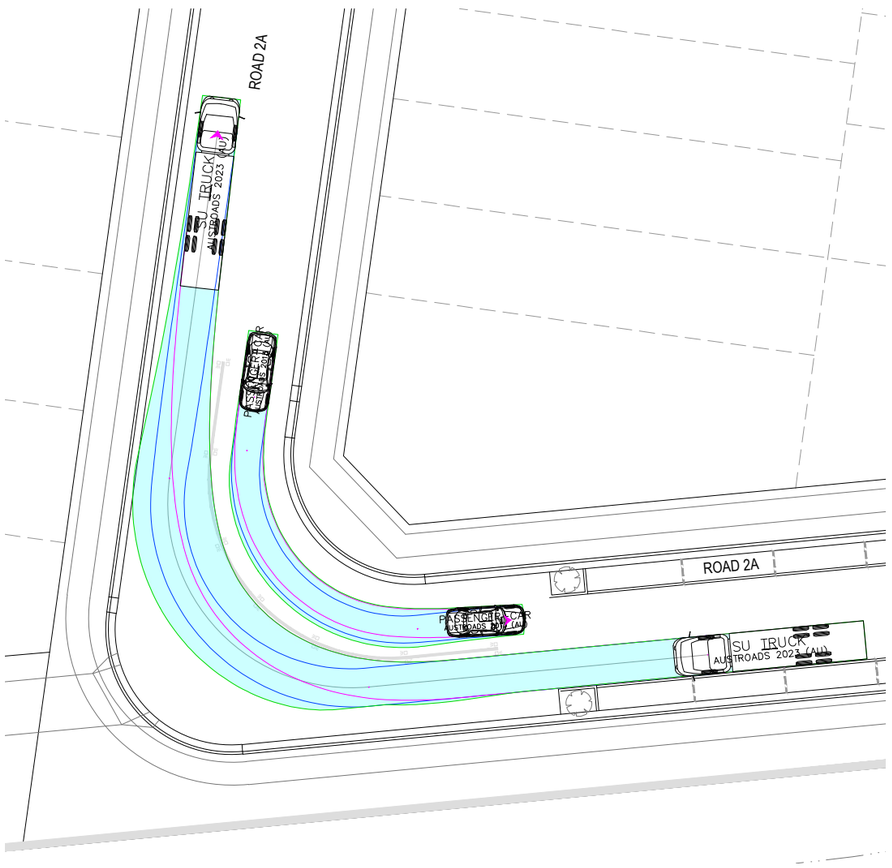
Scale: 1:500 H 1:50 V @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 616 | D |

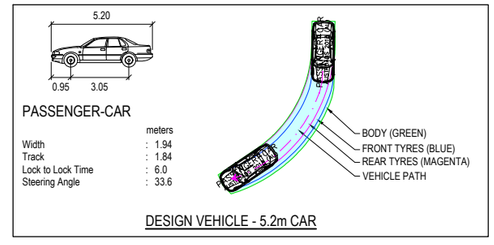
C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-600-DLS.dwg



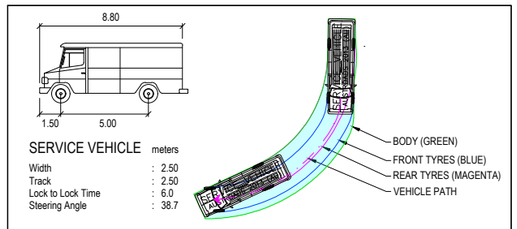

CAR OUTSIDE / SU TRUCK INSIDE



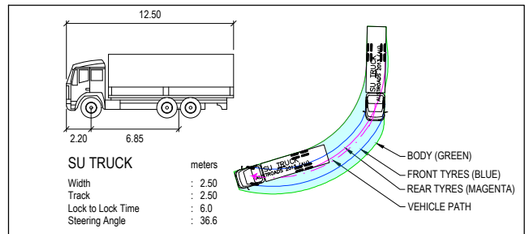

CAR INSIDE / SU TRUCK OUTSIDE




DESIGN VEHICLE - 5.2m CAR

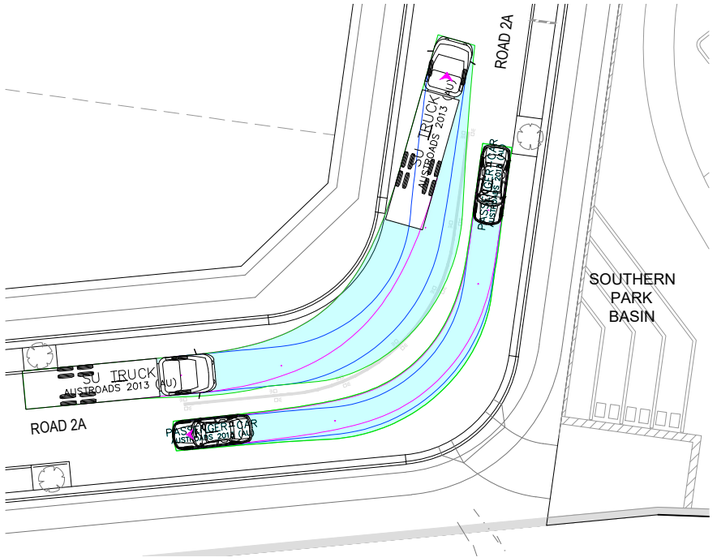



DESIGN VEHICLE - 8.8m SERVICE VEHICLE



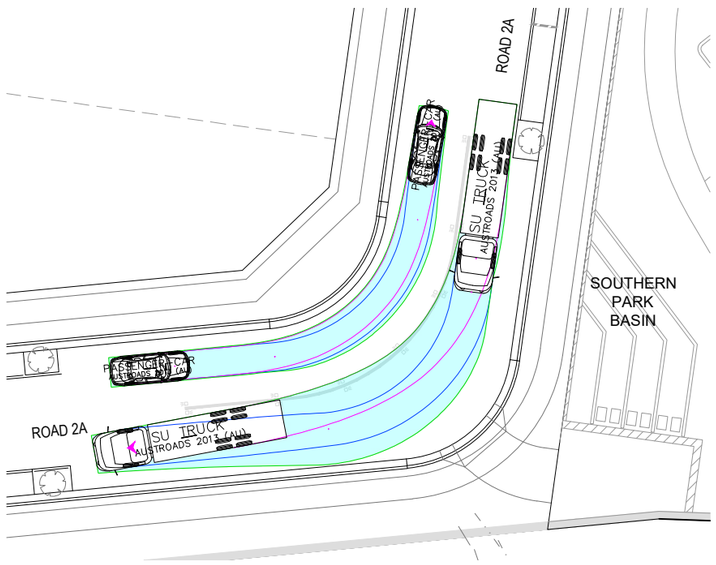

DESIGN VEHICLE - 12.5 m SERVICE VEHICLE

CAR OUTSIDE / SU TRUCK INSIDE




CAR OUTSIDE / SU TRUCK INSIDE

CAR INSIDE / SU TRUCK OUTSIDE




CAR INSIDE / SU TRUCK OUTSIDE




SERVICE VEHICLE INTO SOUTHERN BASIN

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | S. FERGUSON |
| Date | 07.11.25 |
| DA Number | - |

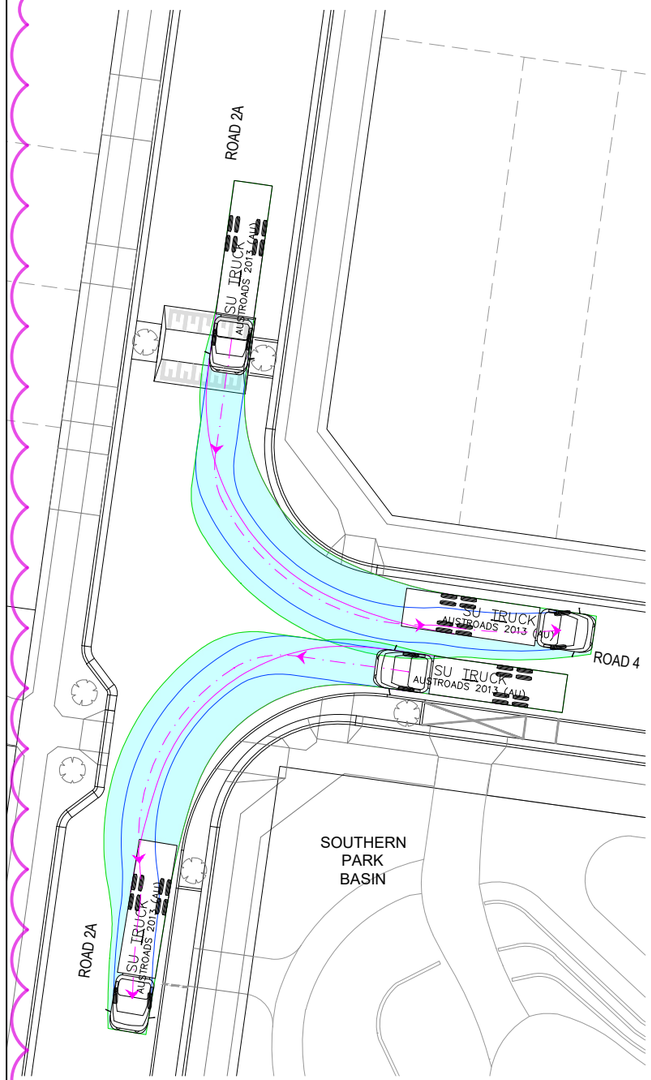
Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2 & 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | TURNING MOVEMENTS<br>SHEET 1 OF1 8 |

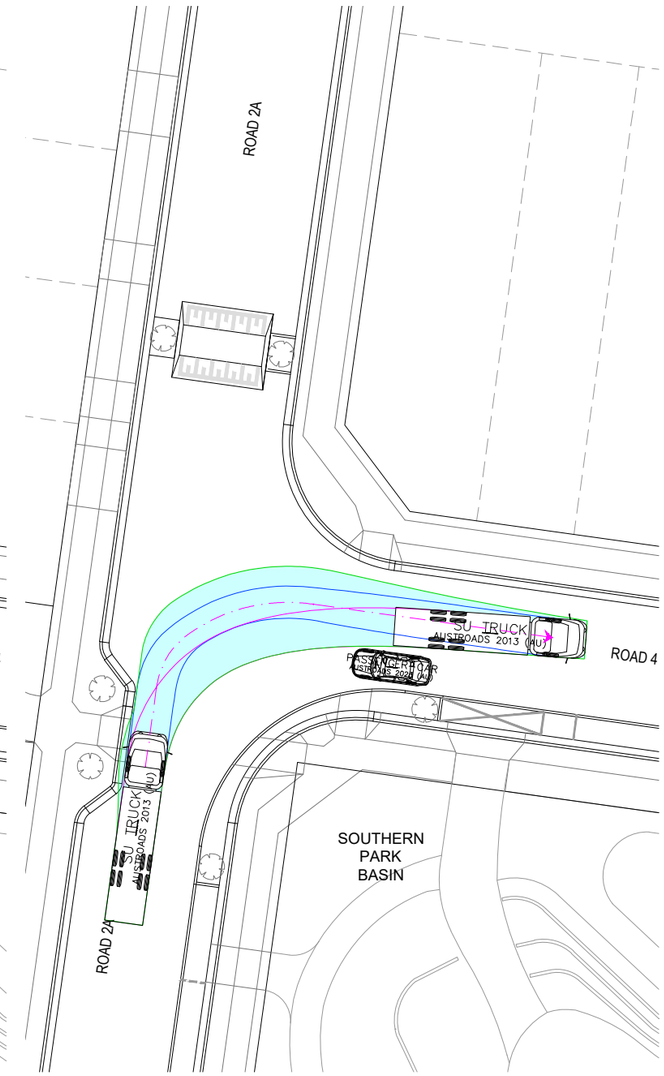
Sheet 132 of162
Scale 1:200 @ A1

| Project Number | Reference | Drawing No. | Revision |
|---|---|---|---|
| 2301879 | 321 | 700 | B |

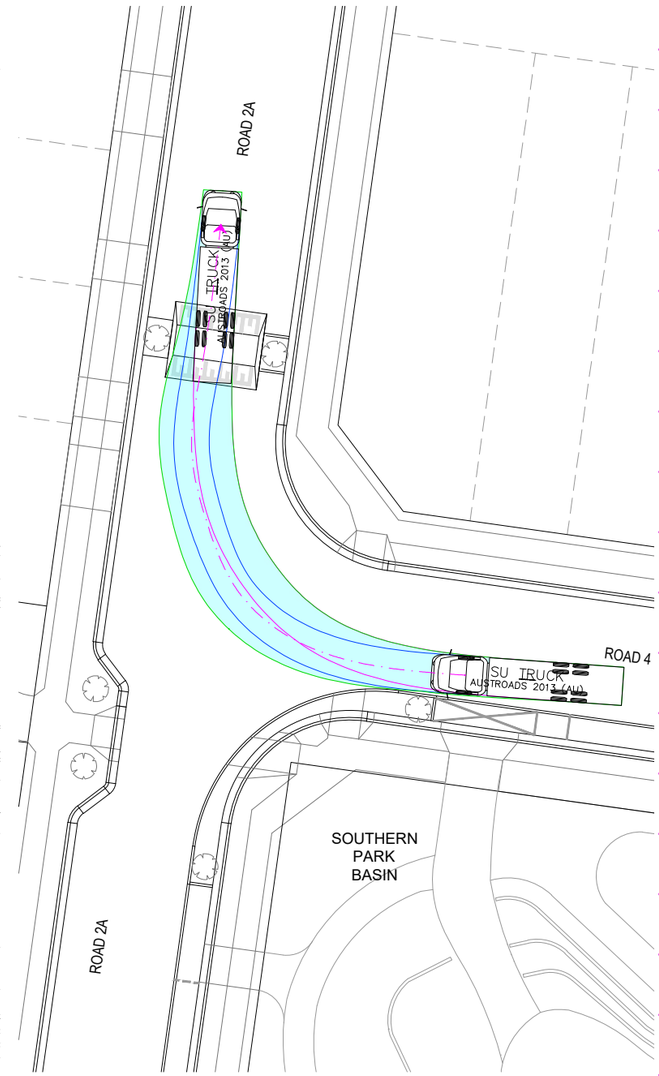
C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-700-TURN.dwg




SU TRUCK - LEFT IN / LEFT OUT




SU TRUCK - RIGHT IN




SU TRUCK - RIGHT OUT




SU TRUCK

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

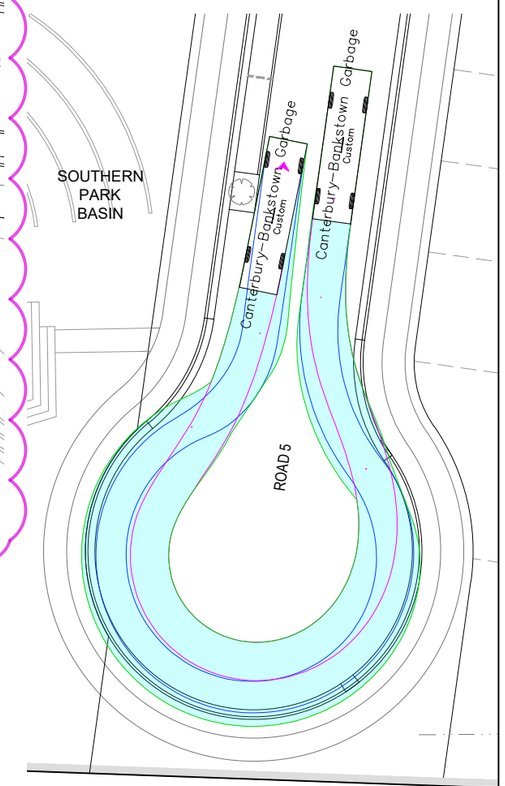
DESIGN VEHICLE - 12.5 m SERVICE VEHICLE




Canterbury-Bankstown Garbage

| | meters |
|---|---|
| Width | : 2.50 |
| Track | : 2.50 |
| Lock to Lock Time | : 6.0 |
| Steering Angle | : 42.7 |

DESIGN VEHICLE - 10.04m CANTERBURY-BANKSTOWN GARBAGE




TURN AROUND AREA
(CANTERBURY-BANKSTOWN GARBAGE)

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| D | UPDATED RESPONSE TO SUBMISSIONS | 05.05.26 | GN | SG |
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | S. FERGUSON |
| Date | 07.11.25 |
| DA Number | - |

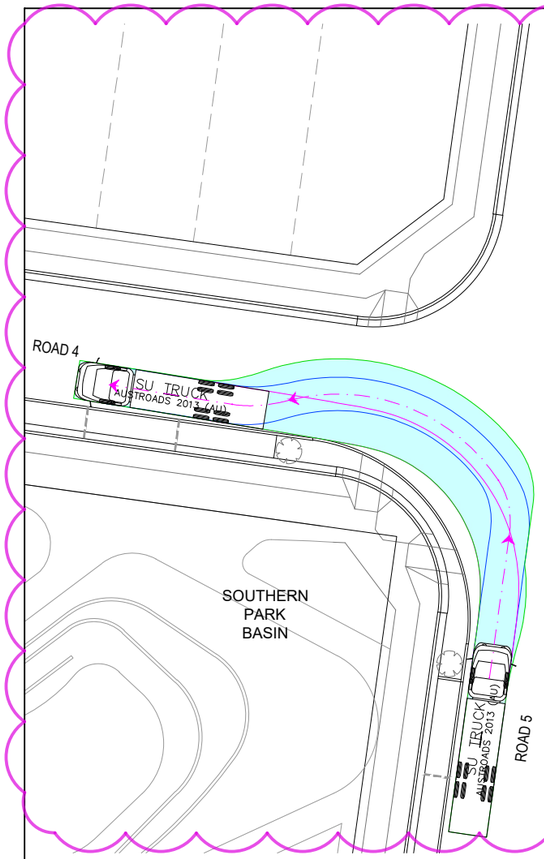
Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2 & 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | TURNING MOVEMENTS<br>SHEET 2 OF 18 |

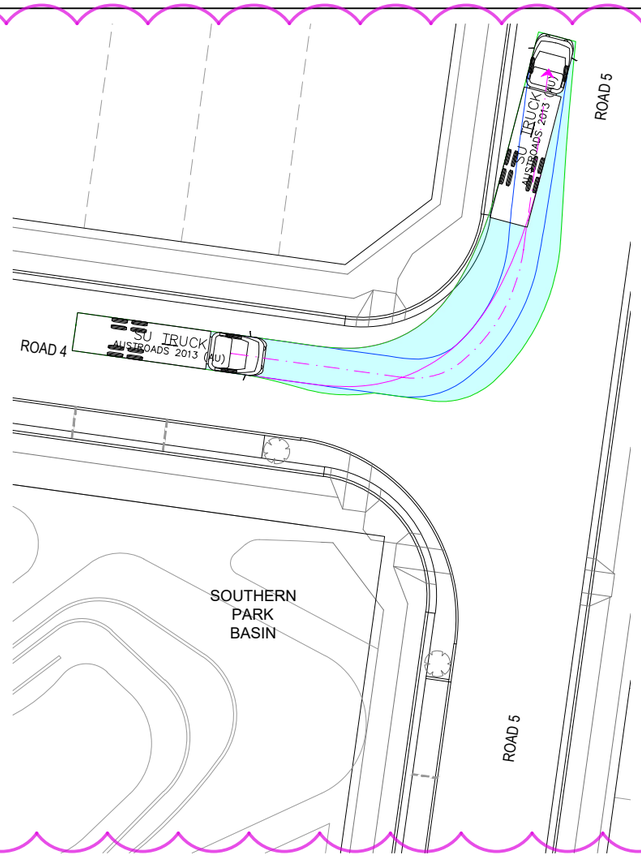
Sheet 133 of162
Scale 1:200 @ A1

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 701 | D |

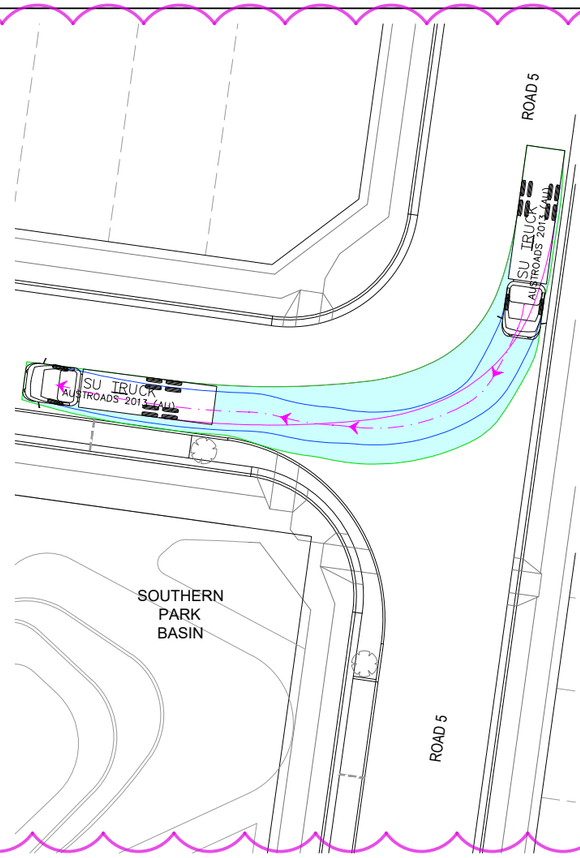
C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-700-TURN.dwg



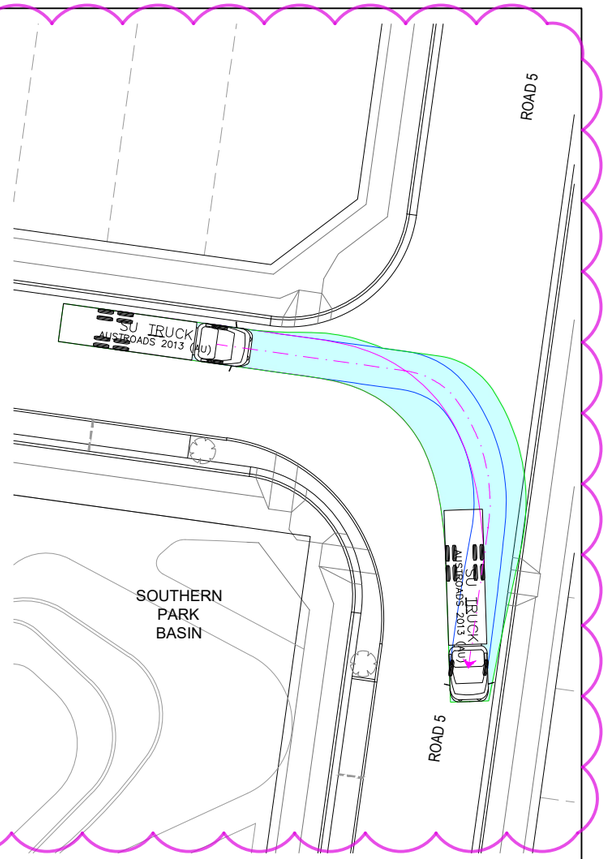

SU TRUCK - LEFT IN



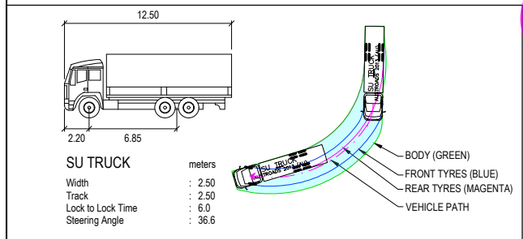

SU TRUCK - LEFT OUT



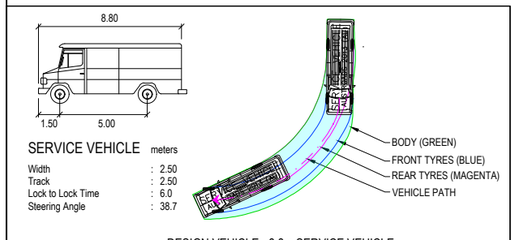

SU TRUCK - RIGHT IN



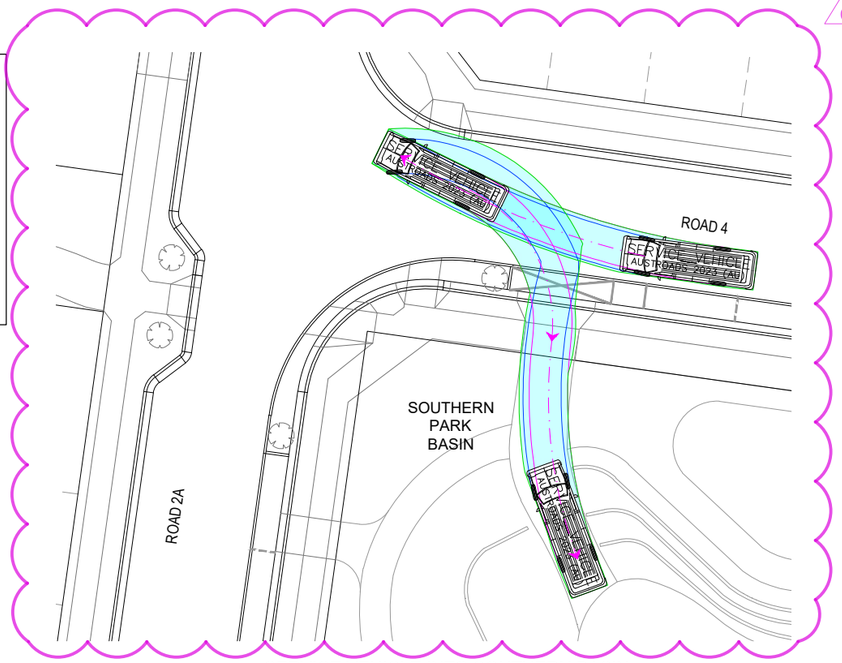

SU TRUCK - RIGHT OUT




DESIGN VEHICLE - 12.5 m SERVICE VEHICLE




DESIGN VEHICLE - 8.8m SERVICE VEHICLE




SERVICE VEHICLE INTO SOUTHERN BASIN

C D




SERVICE VEHICLE INTO SOUTHERN BASIN

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| D | UPDATED RESPONSE TO SUBMISSIONS | 05.05.26 | GN | SG |
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | S. FERGUSON |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2 & 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | TURNING MOVEMENTS SHEET 3 OF 18 |

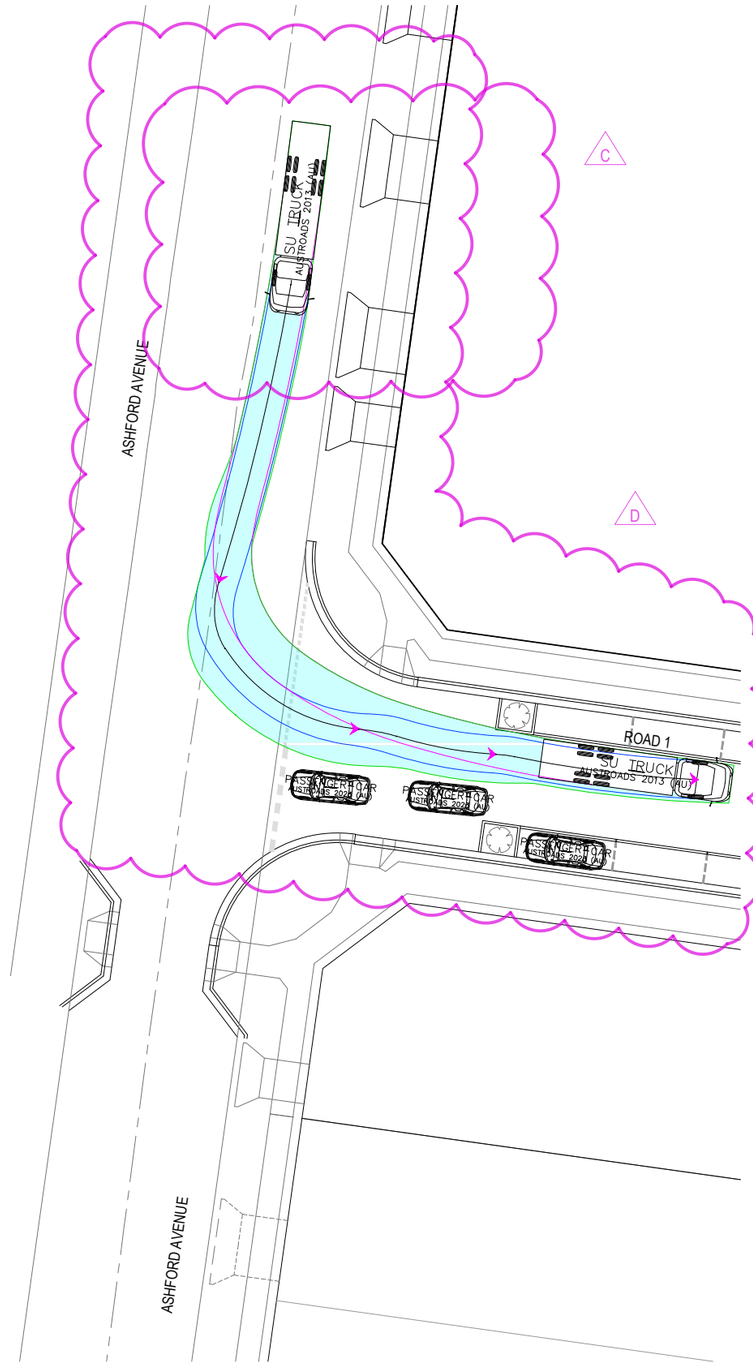
Sheet 134 of162

Scale 1:200 @ A1

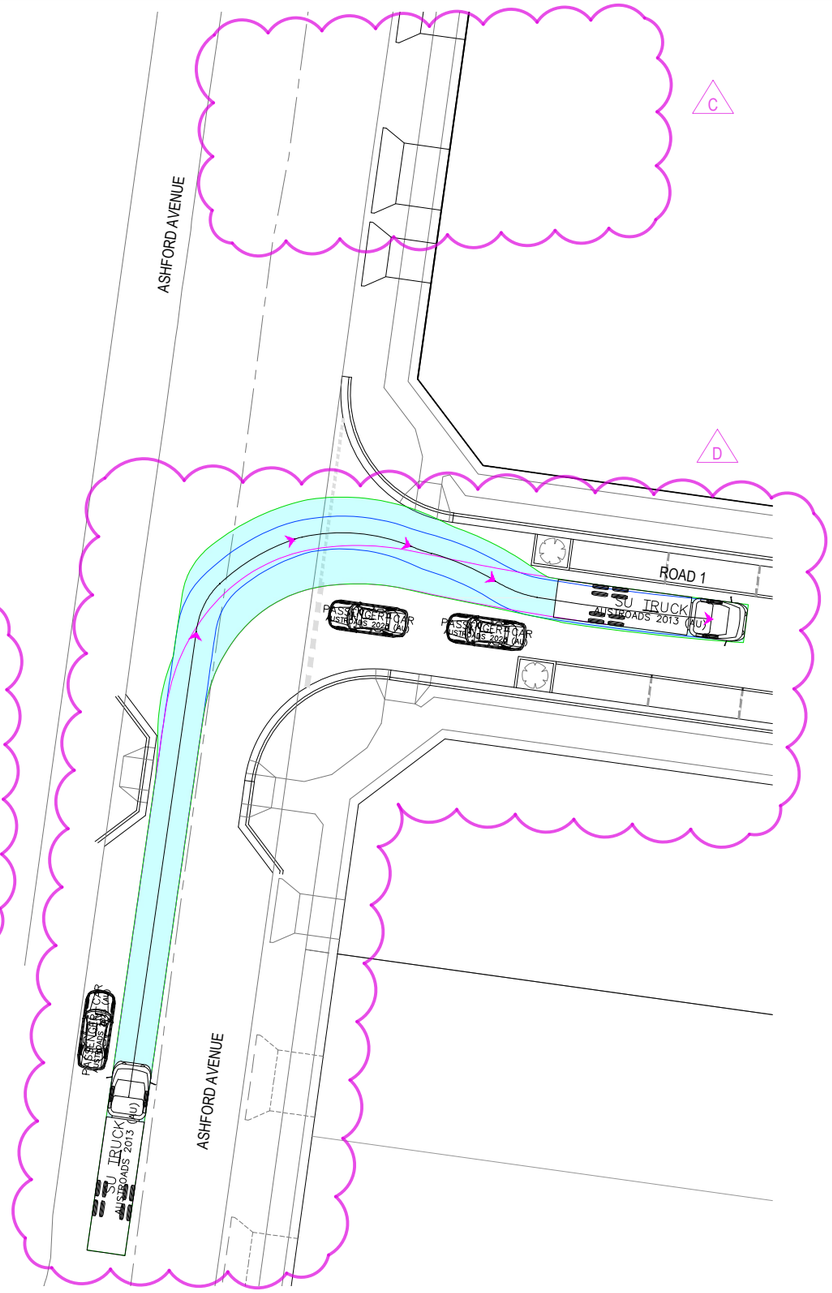
N

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 702 | D |

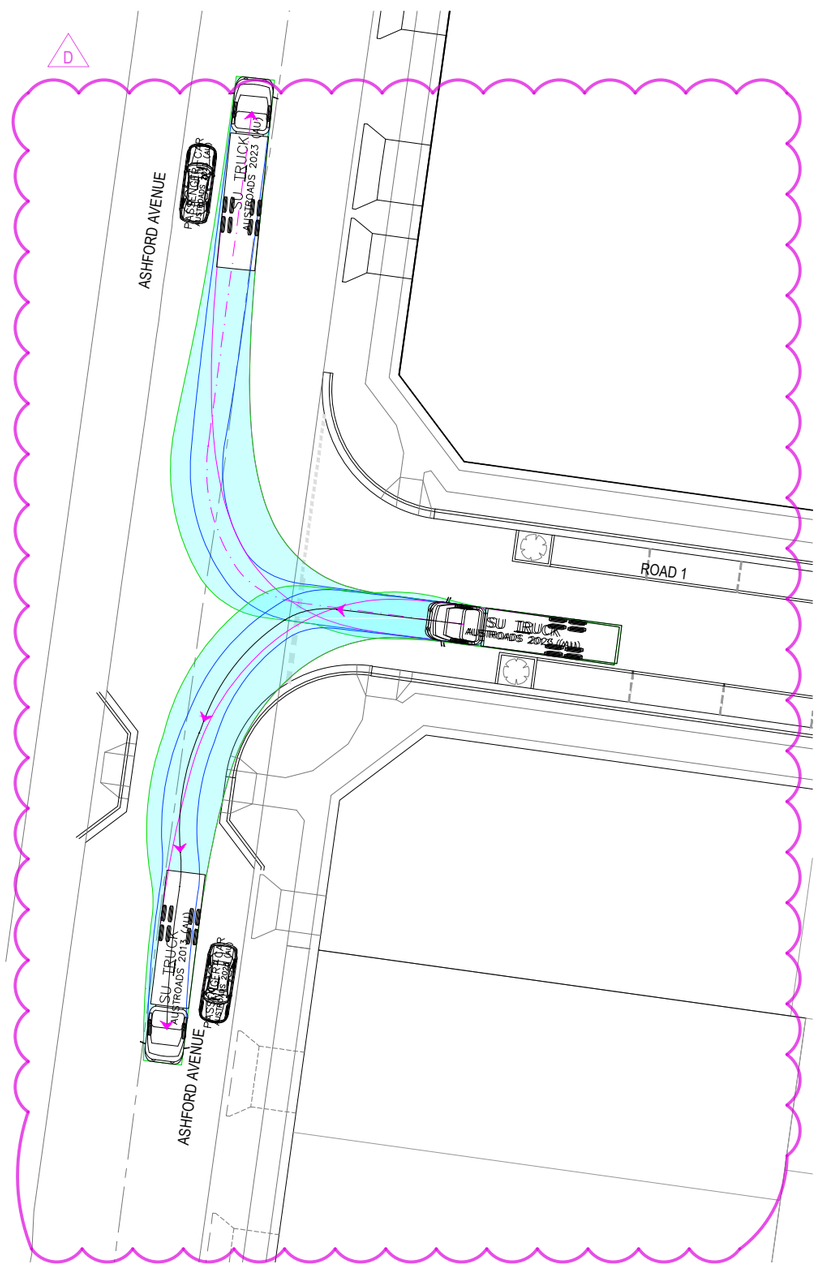
C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-700-TURN.dwg



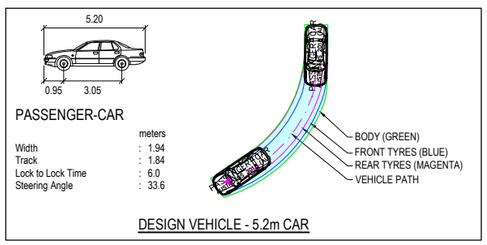

SU TRUCK - LEFT IN



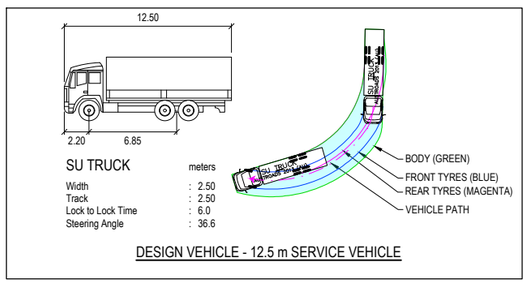

SU TRUCK - RIGHT IN




SU TRUCK - RIGHT OUT / LEFT OUT




DESIGN VEHICLE - 5.2m CAR




DESIGN VEHICLE - 12.5 m SERVICE VEHICLE

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| D | UPDATED RESPONSE TO SUBMISSIONS | 05.05.26 | GN | SG |
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | S. FERGUSON |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

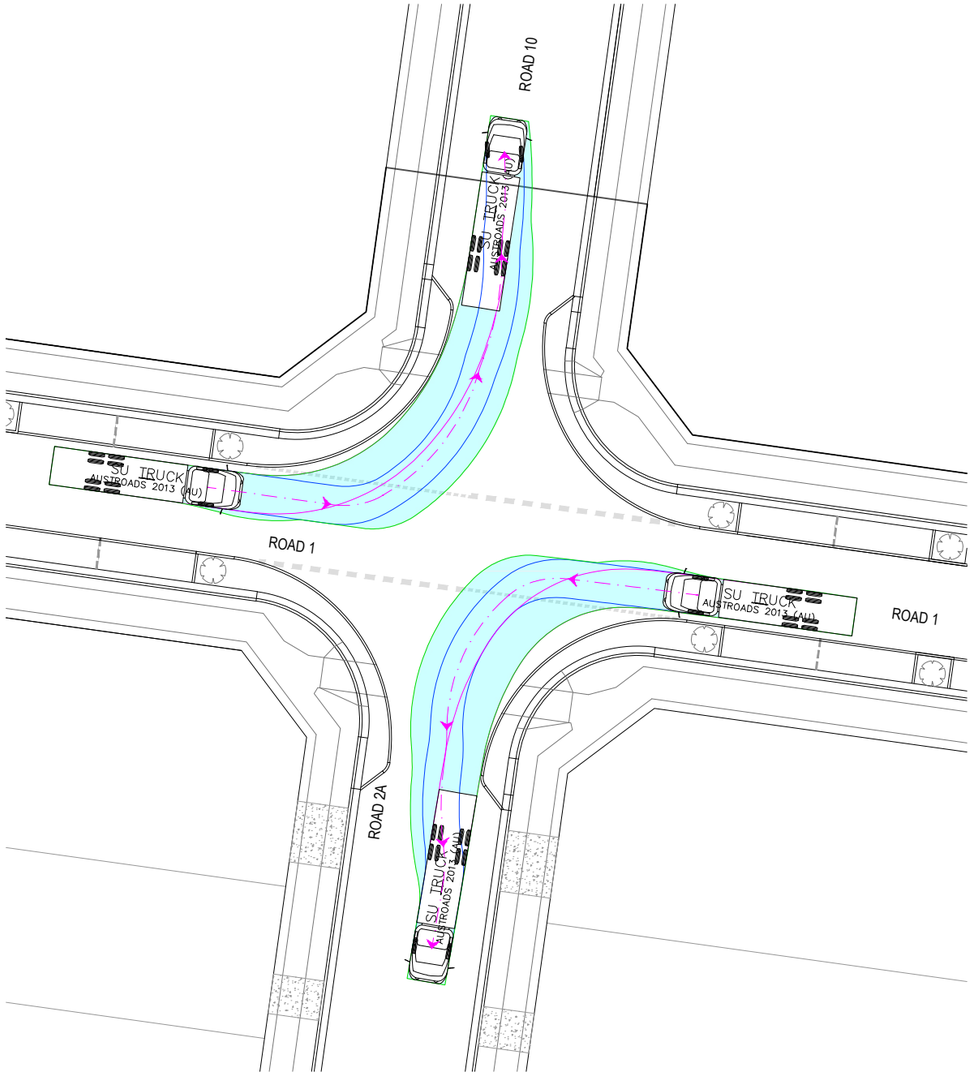
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TURNING MOVEMENTS
SHEET 4 OF 18

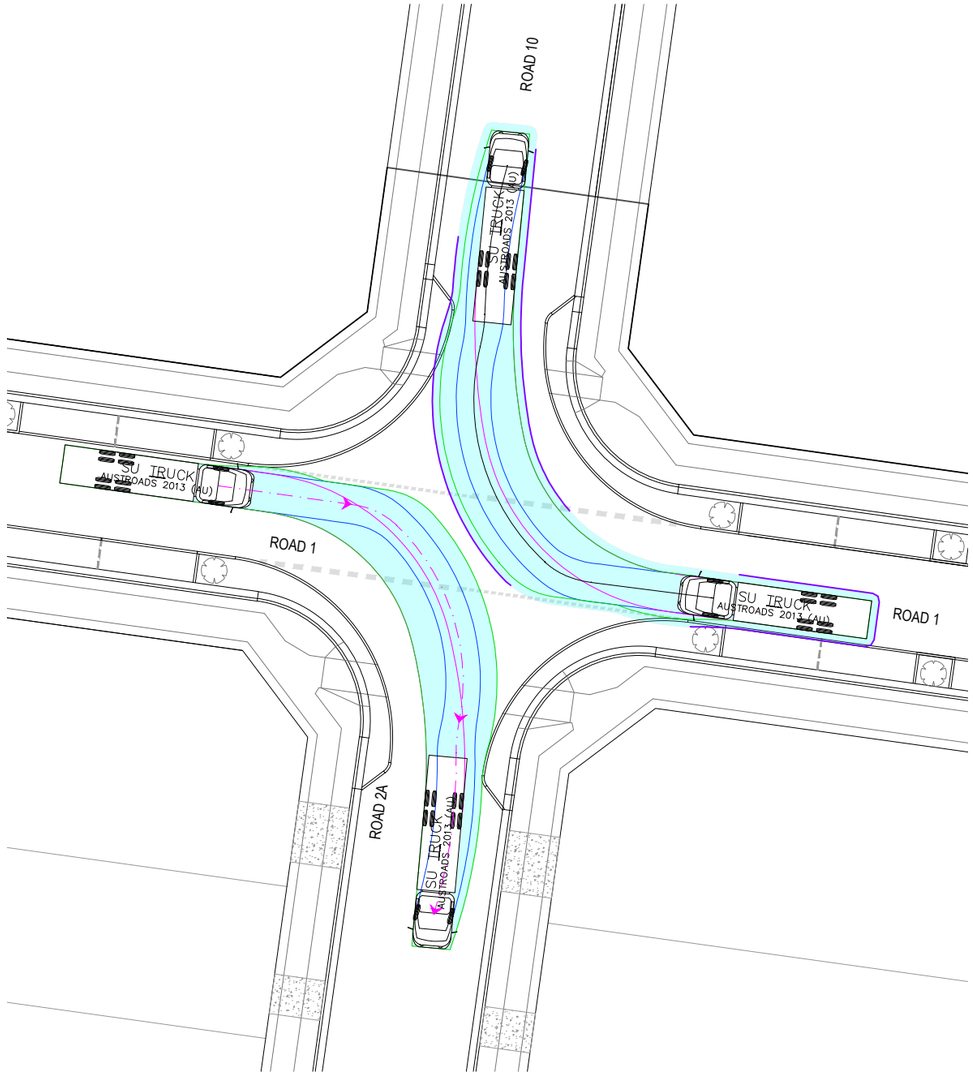
Sheet 135 of162
Scale 1:200 @ A1

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 703 | D |

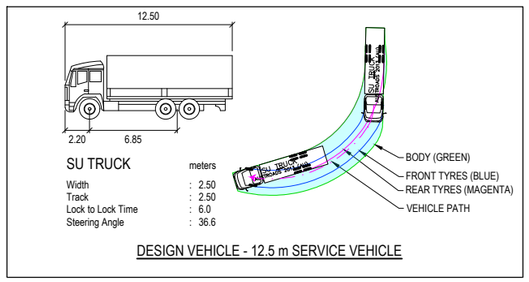
C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-700-TURN.dwg




SU TRUCK - LEFT IN / LEFT OUT




SU TRUCK - RIGHT IN / RIGHT OUT




DESIGN VEHICLE - 12.5 m SERVICE VEHICLE

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | S. FERGUSON |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2 & 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | TURNING MOVEMENTS<br>SHEET 5 OF 18 |

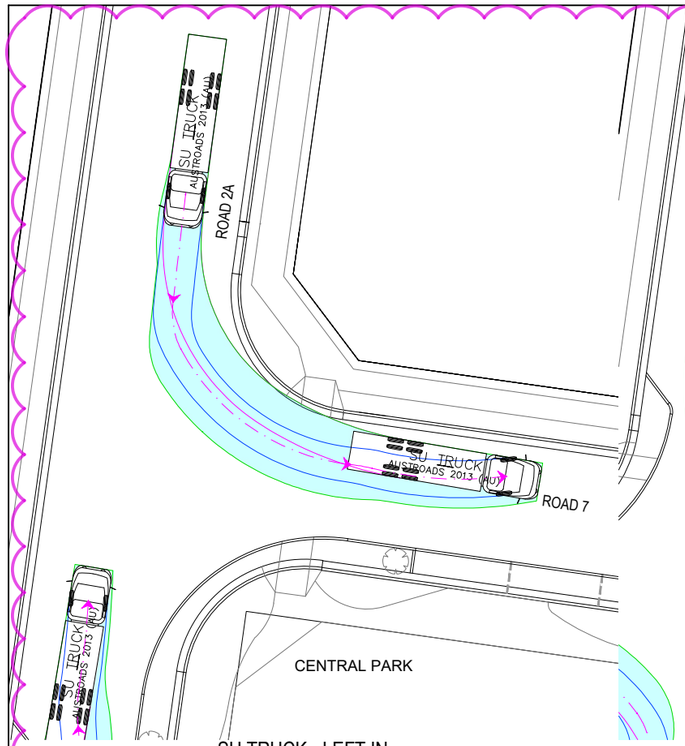
Sheet 136 of162

Scale 1:200 @ A1

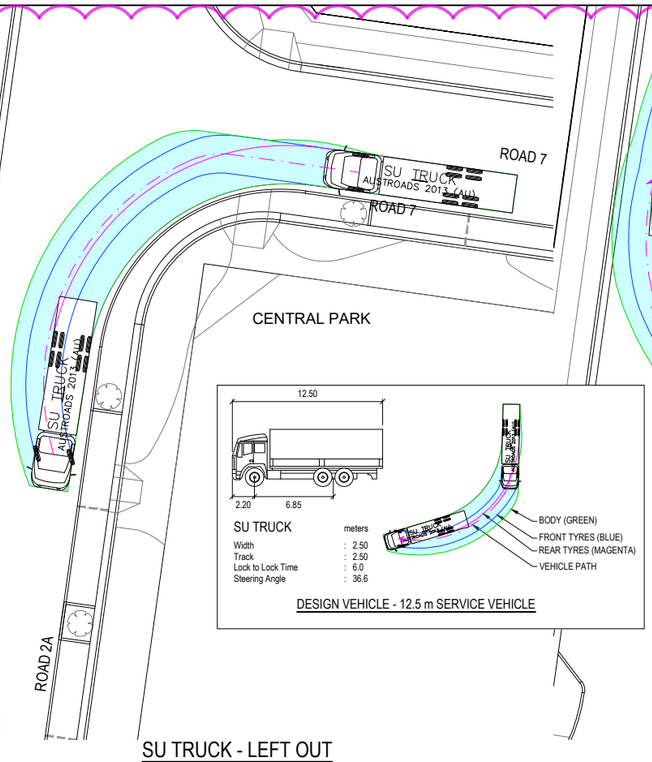
N

| Project Number | Reference | Drawing No. | Revision |
|---|---|---|---|
| 2301879 | 321 | 704 | B |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-700-TURN.dwg

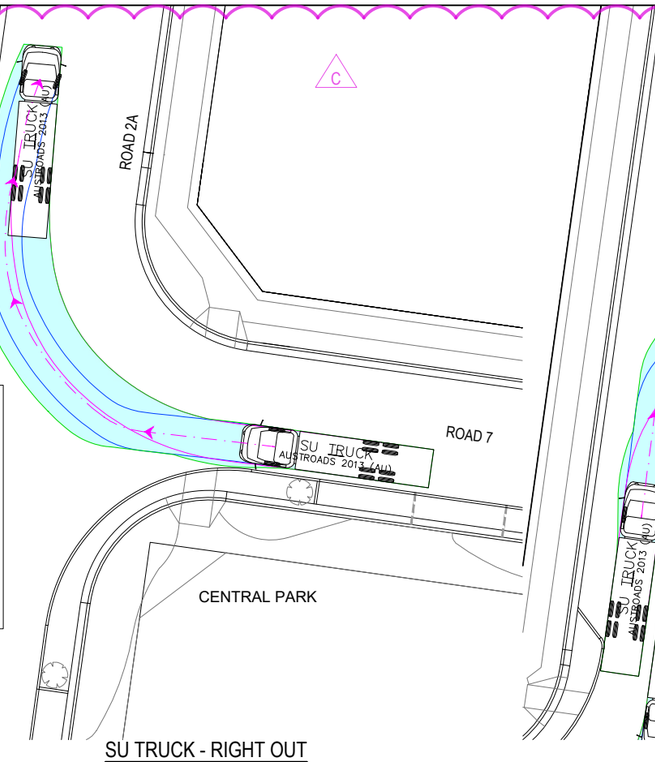



SU TRUCK - LEFT IN

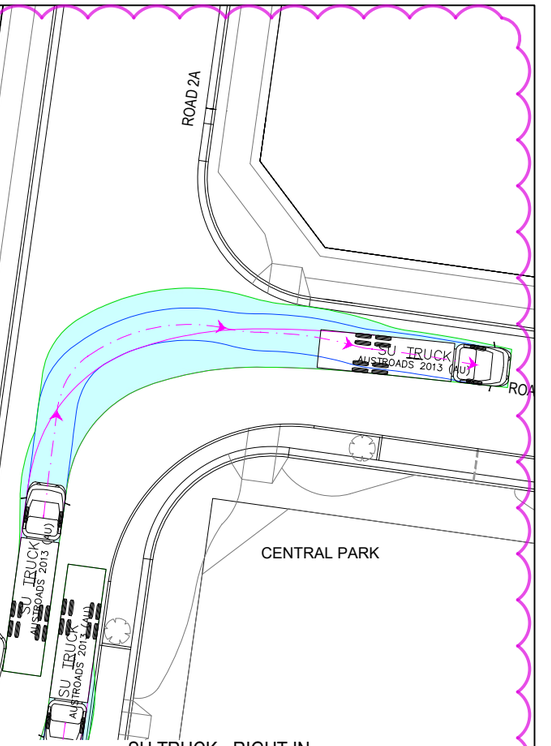



SU TRUCK - LEFT OUT

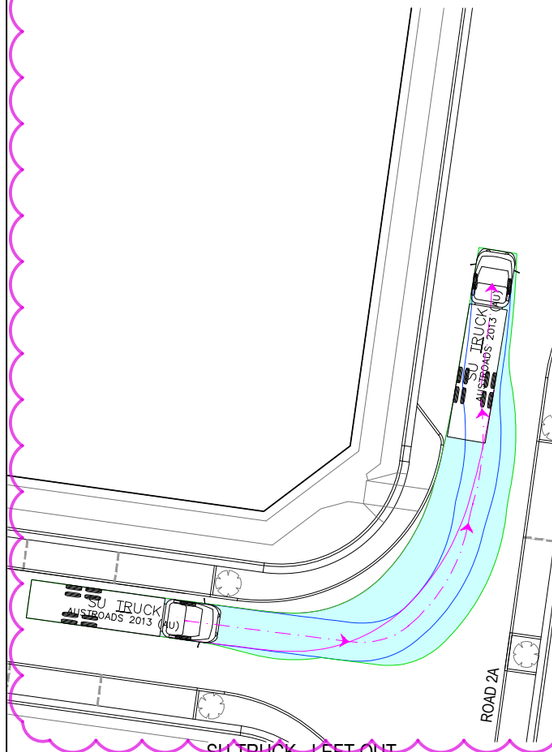


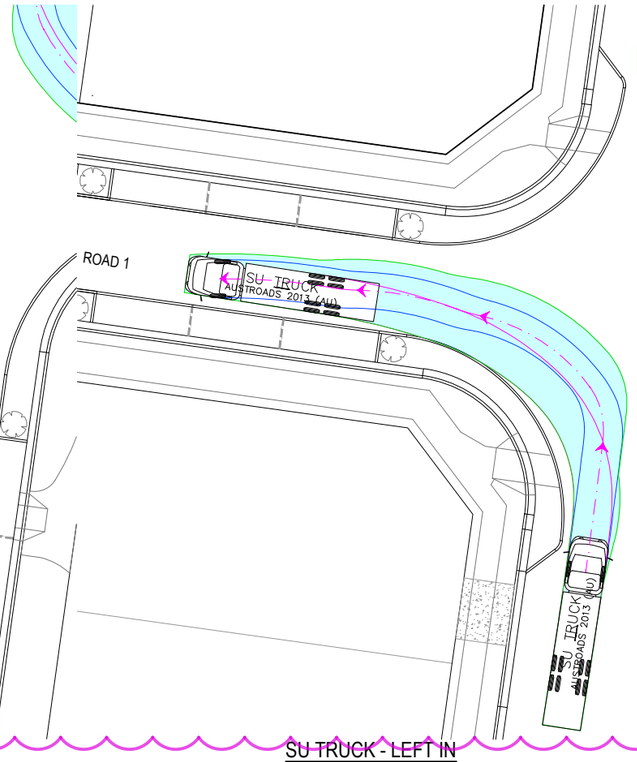

SU TRUCK - RIGHT OUT



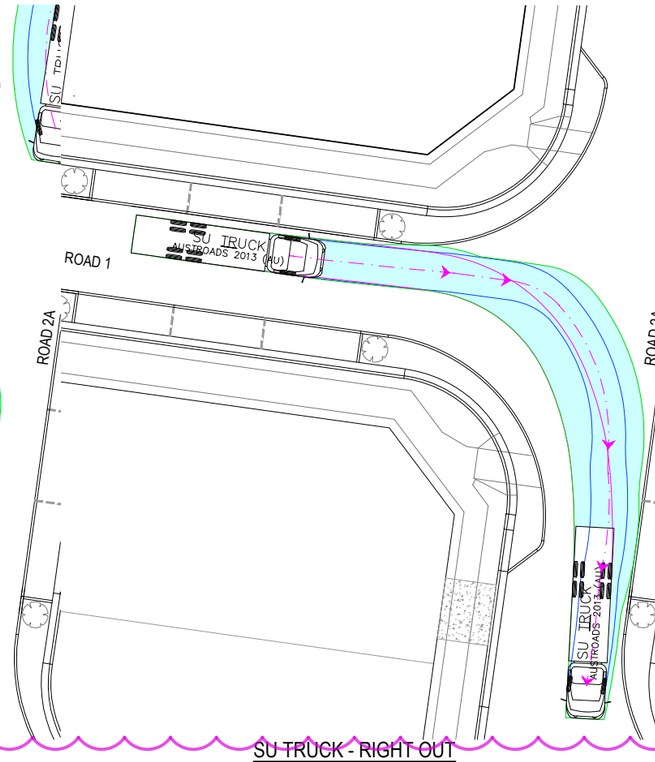

SU TRUCK - RIGHT IN



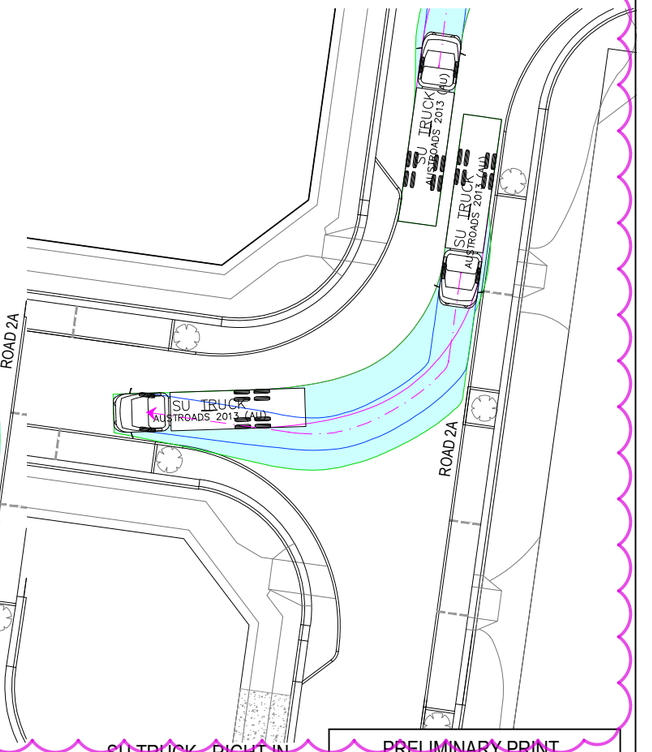

SU TRUCK - LEFT OUT




SU TRUCK - LEFT IN




SU TRUCK - RIGHT OUT




SU TRUCK - RIGHT IN

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | UPDATED RESPONSE TO SUBMISSIONS | 05.05.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | S. FERGUSON |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TURNING MOVEMENTS
SHEET 6 OF 18

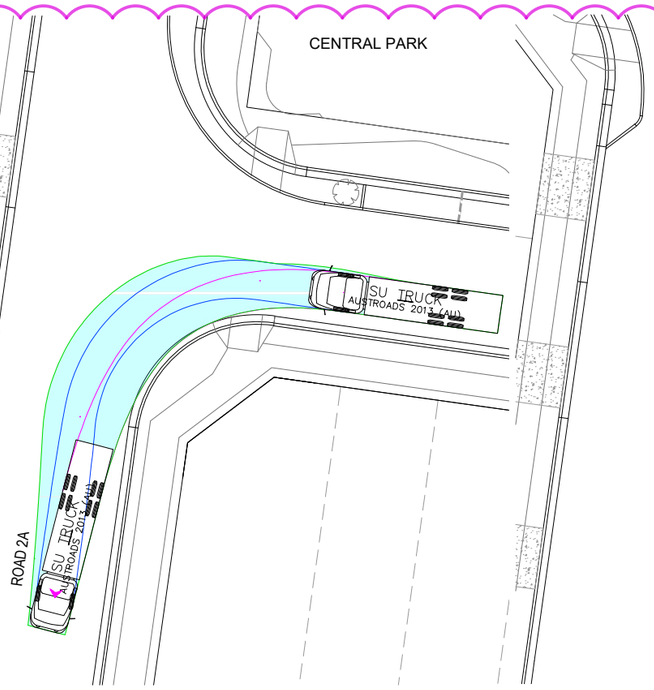
Sheet 137 of162

Scale 1:200 @ A1

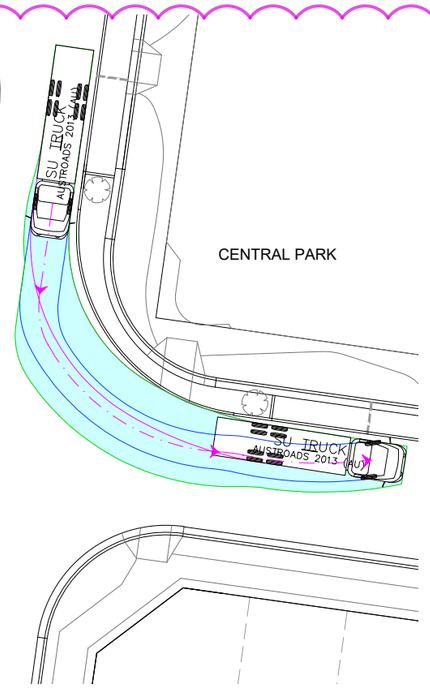
N

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 705 | C |

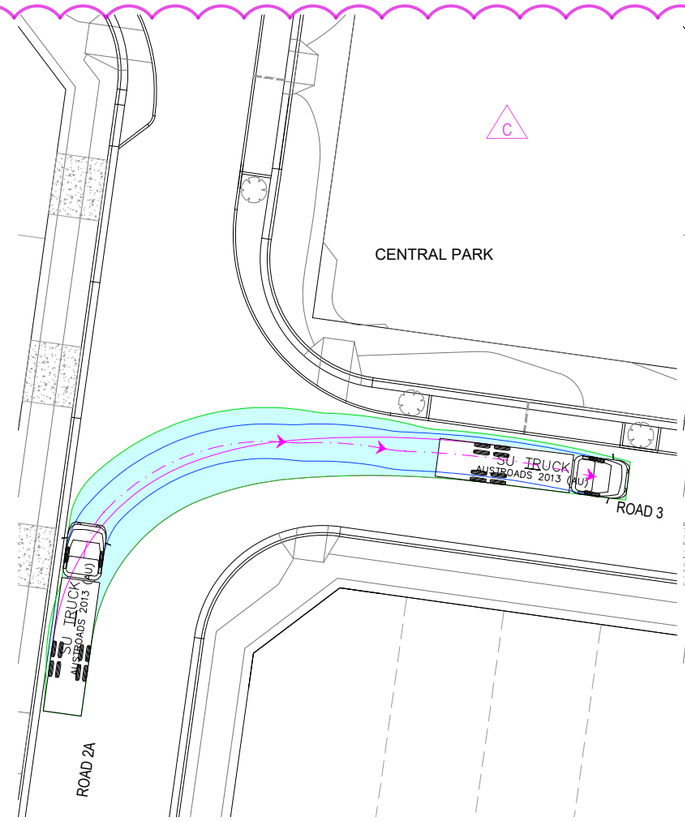
C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-700-TURN.dwg



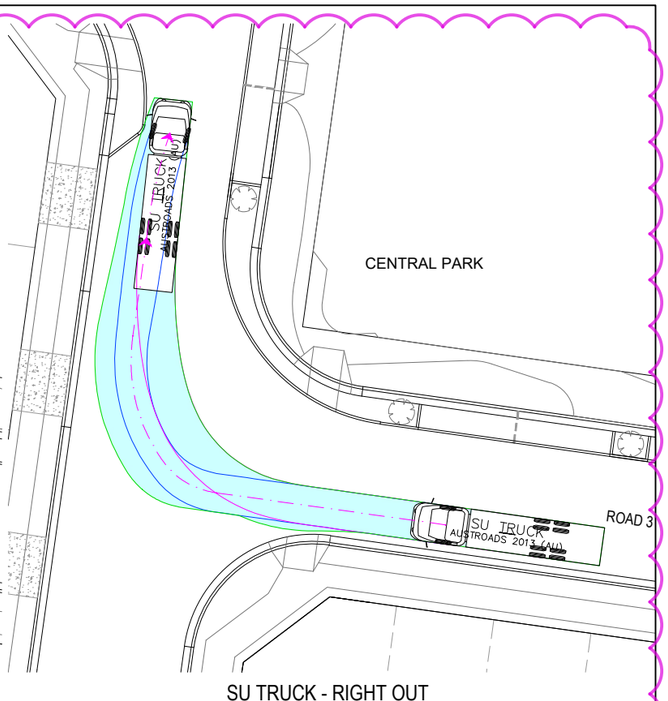

SU TRUCK - LEFT OUT



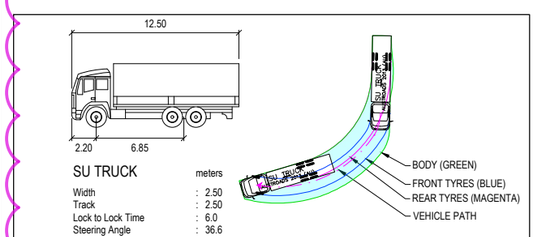

SU TRUCK - LEFT IN



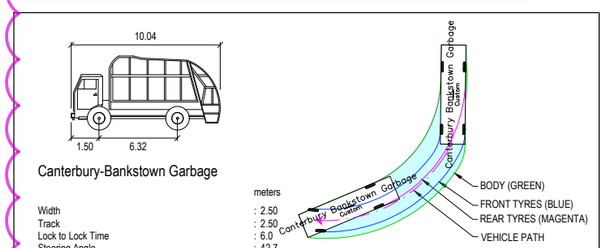

SU TRUCK - RIGHT IN



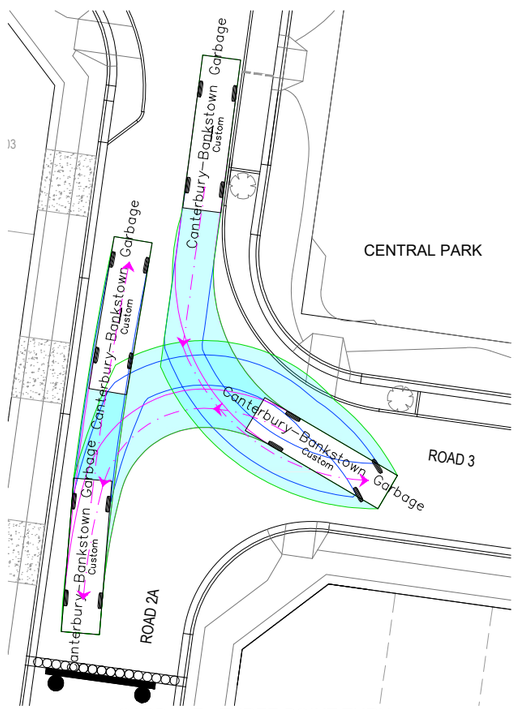

SU TRUCK - RIGHT OUT



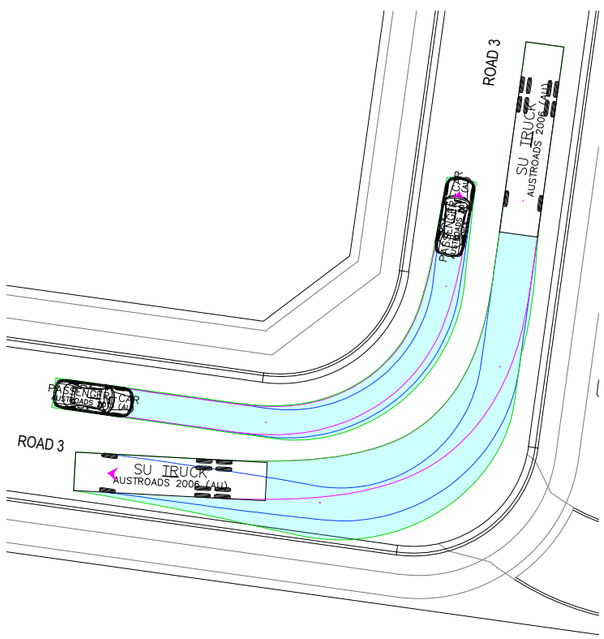

DESIGN VEHICLE - 12.5 m SERVICE VEHICLE



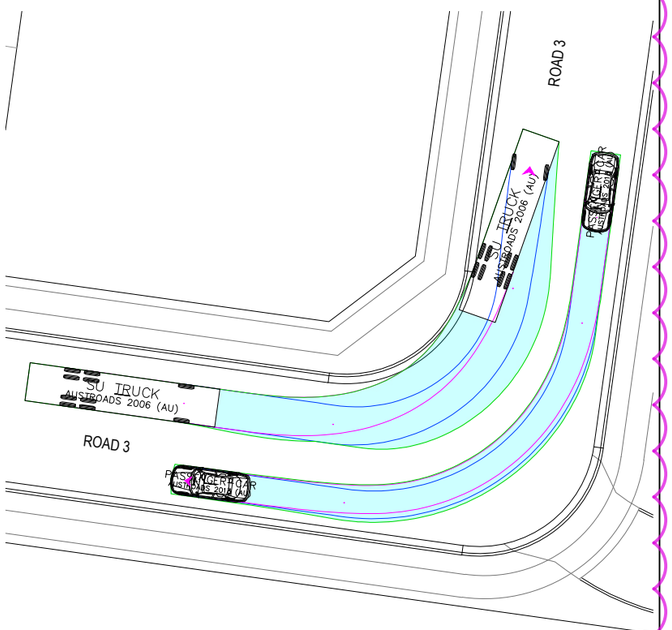

DESIGN VEHICLE - 10.04m CANTERBURY-BANKSTOWN GARBAGE




GARBAGE - THREE POINT TURN




CAR INSIDE / SU TRUCK OUTSIDE




CAR OUTSIDE / SU TRUCK INSIDE

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | UPDATED RESPONSE TO SUBMISSIONS | 05.05.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | S. FERGUSON |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

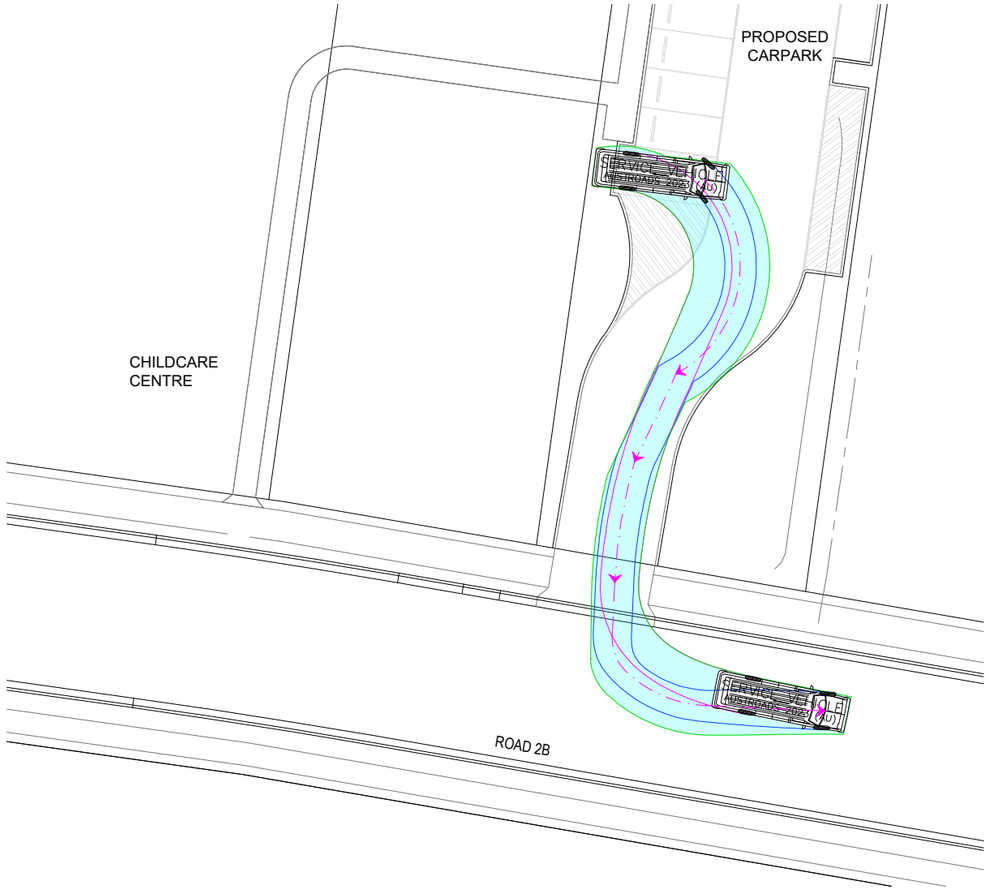
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TURNING MOVEMENTS
SHEET 7 OF 18

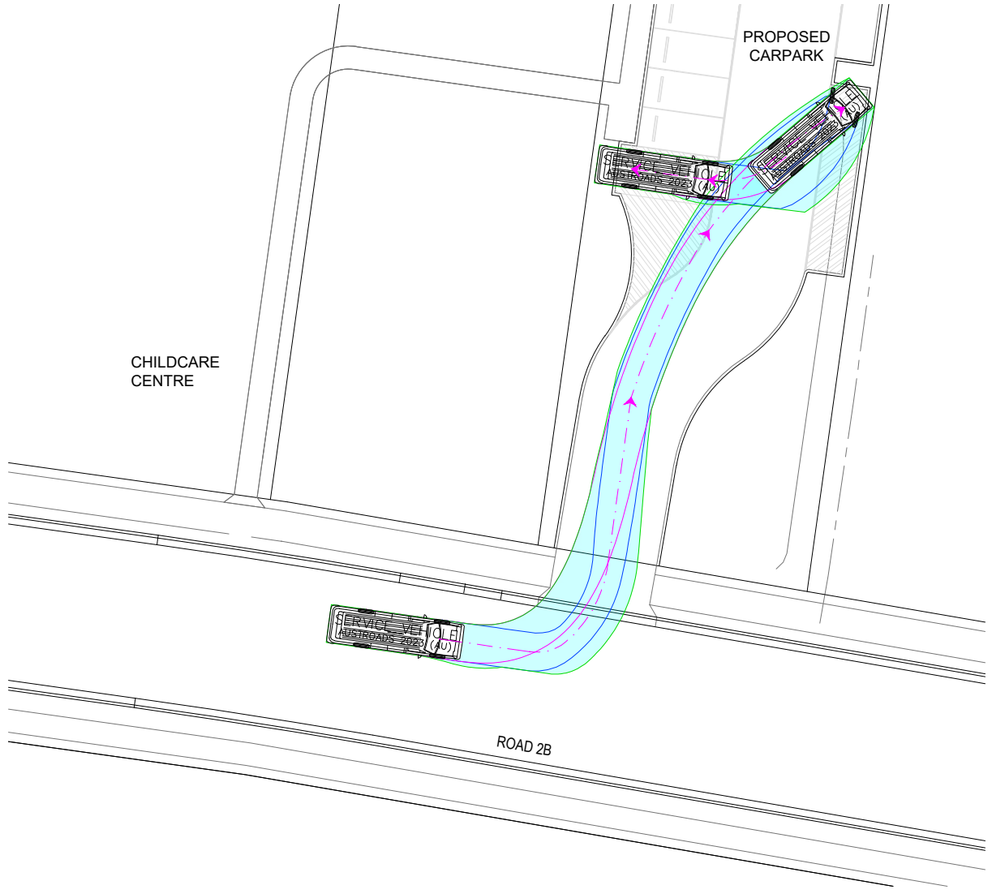
Sheet 138 of162
Scale 1:200 @ A1

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 706 | C |

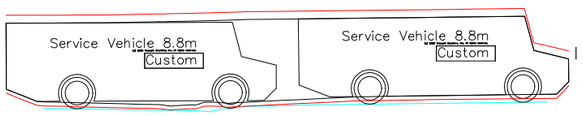
C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-700-TURN.dwg




SV TRUCK - VEHICLE EXITING



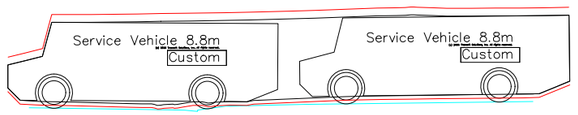

SV TRUCK - VEHICLE ENTERING




Ground Clearance (units: m)

| Part # | Front | Wheelbase | Rear |
|---|---|---|---|
| #1 | 0.25 | 0.25 | 0.25 |

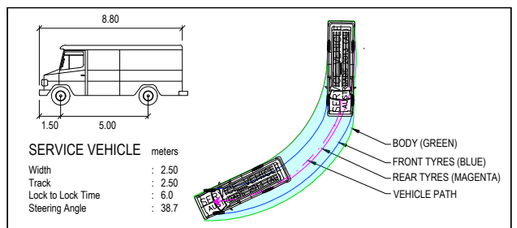
8.8m SERVICE VEHICLE - CHILDCARE CARPARK ENTRY VERTICAL CLEARANCE




Ground Clearance (units: m)

| Part # | Front | Wheelbase | Rear |
|---|---|---|---|
| #1 | 0.25 | 0.25 | 0.25 |

8.8m SERVICE VEHICLE - CHILDCARE CARPARK EXIT VERTICAL CLEARANCE




DESIGN VEHICLE - 8.8m SERVICE VEHICLE

LEGEND

ROAD ALIGNMENT

BODY CLEARANCE

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| B | UPDATED TURNING TEMPLATE | 23.10.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

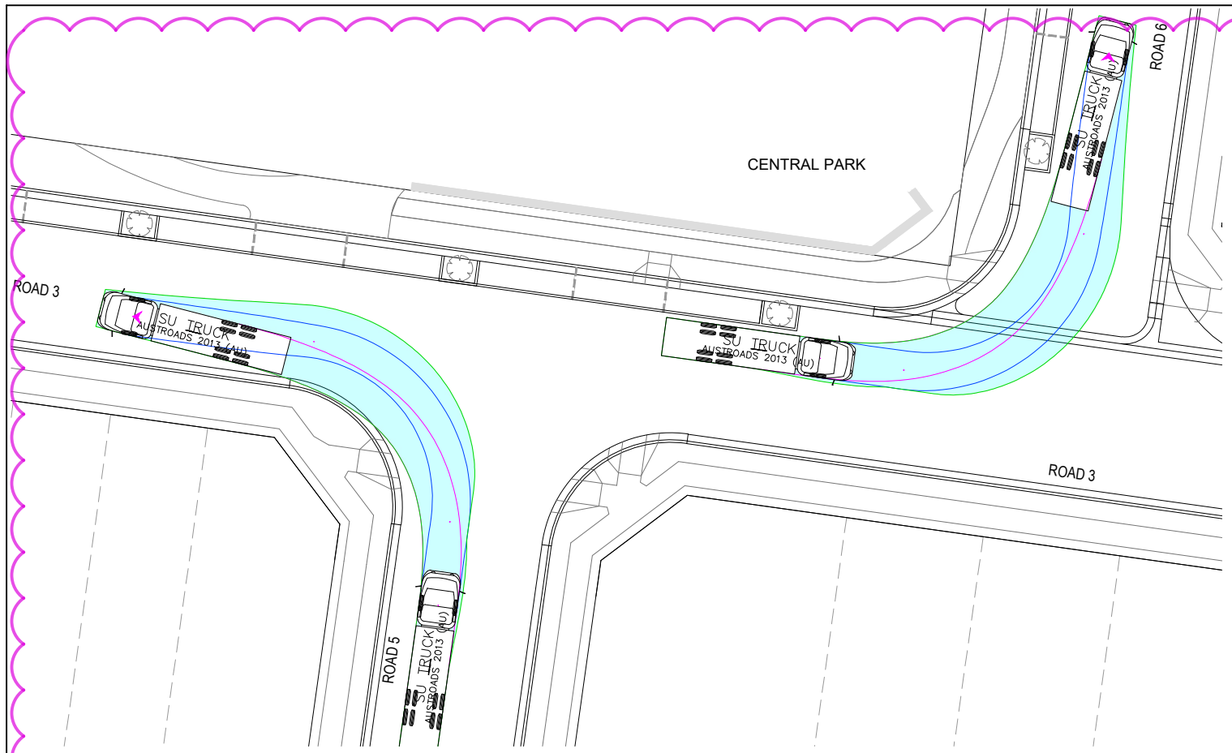
Drawing Title: TURNING MOVEMENTS
SHEET 8 OF 18

Sheet 139 of162

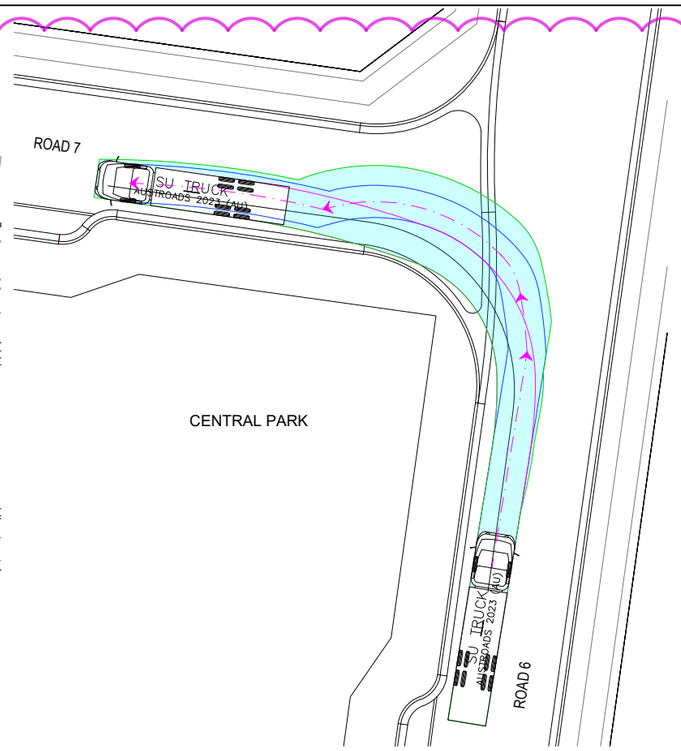
Scale: 1:200 @ A1

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 707 | C |

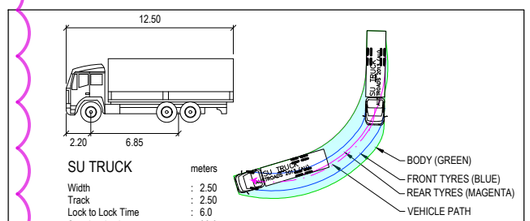
C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-700-TURN.dwg




SU TRUCK - LEFT IN / LEFT OUT

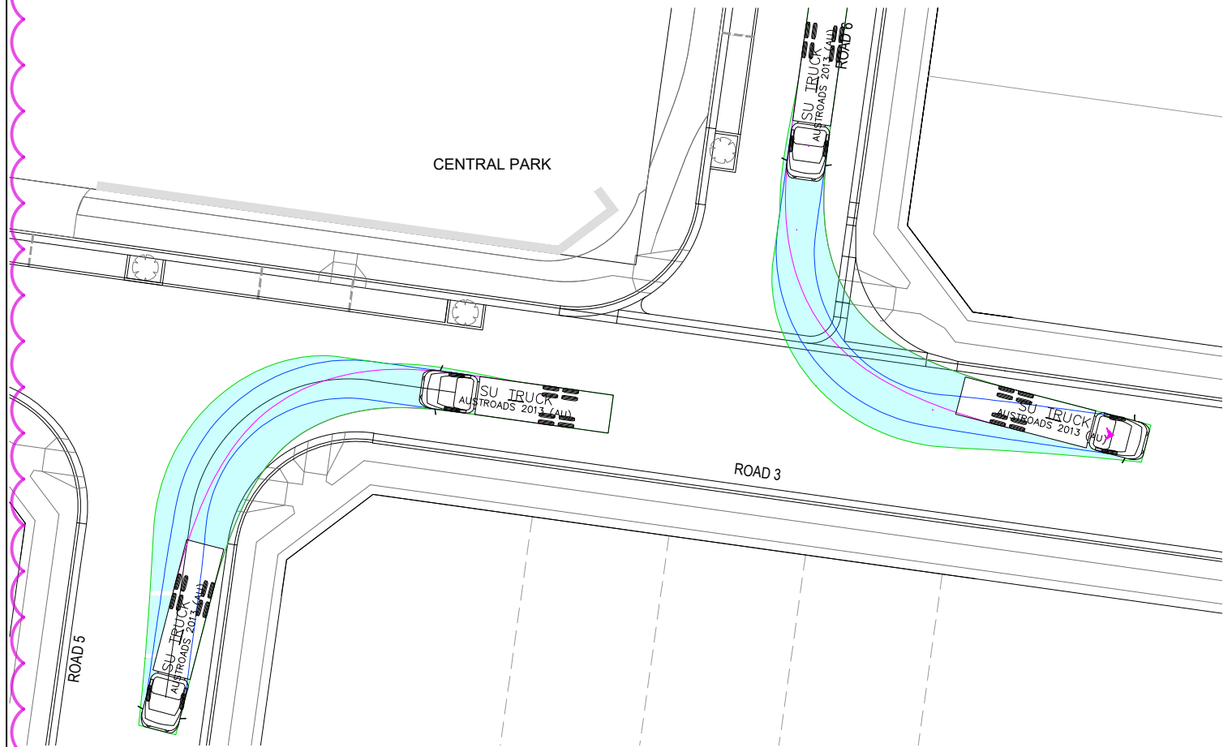



SU TRUCK - LEFT IN

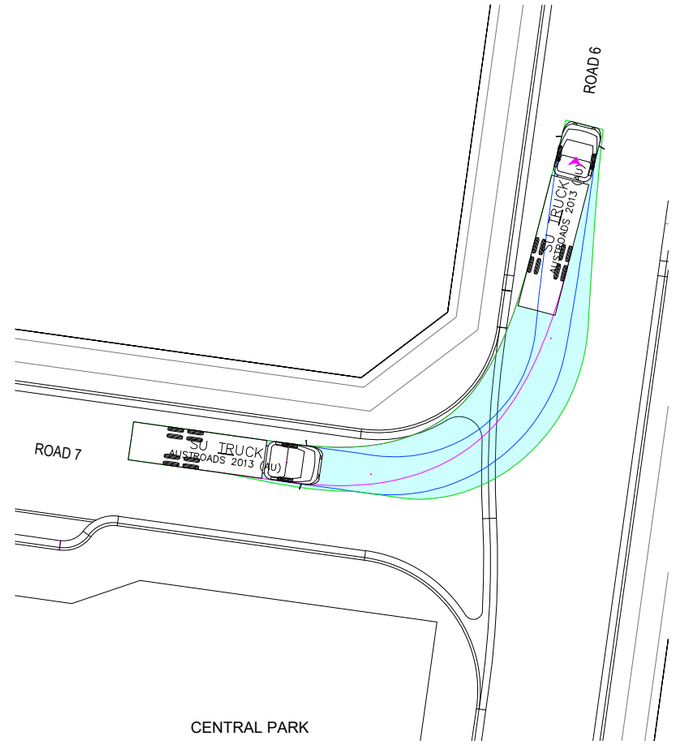



DESIGN VEHICLE - 12.5 m SERVICE VEHICLE

C




SU TRUCK - LEFT IN / LEFT OUT




SU TRUCK - LEFT OUT

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT. All rights reserved.
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | UPDATED RESPONSE TO SUBMISSIONS | 05.05.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | K. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TURNING MOVEMENTS SHEET 9 OF 18

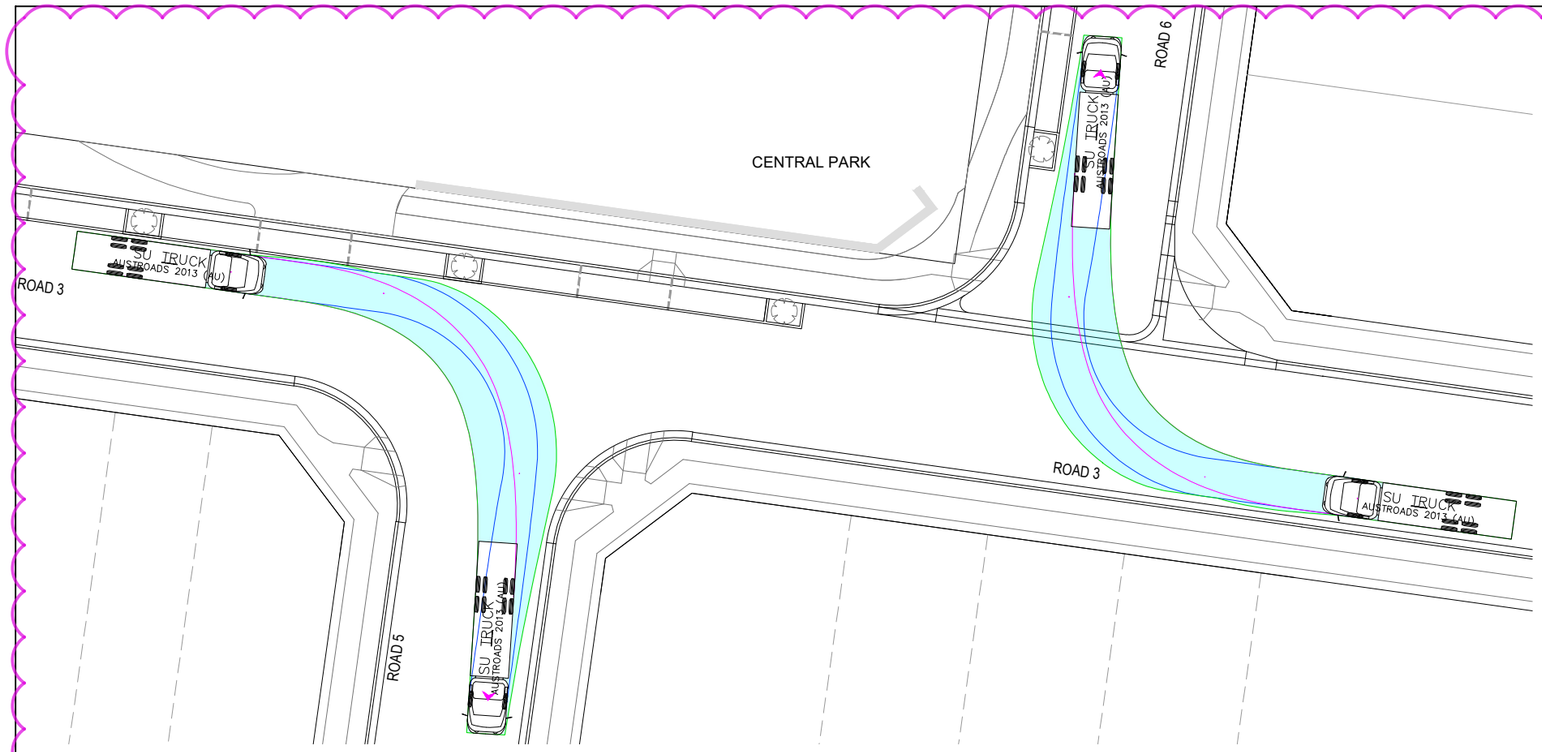
Sheet 140 of162

Scale: 1:200 @ A1

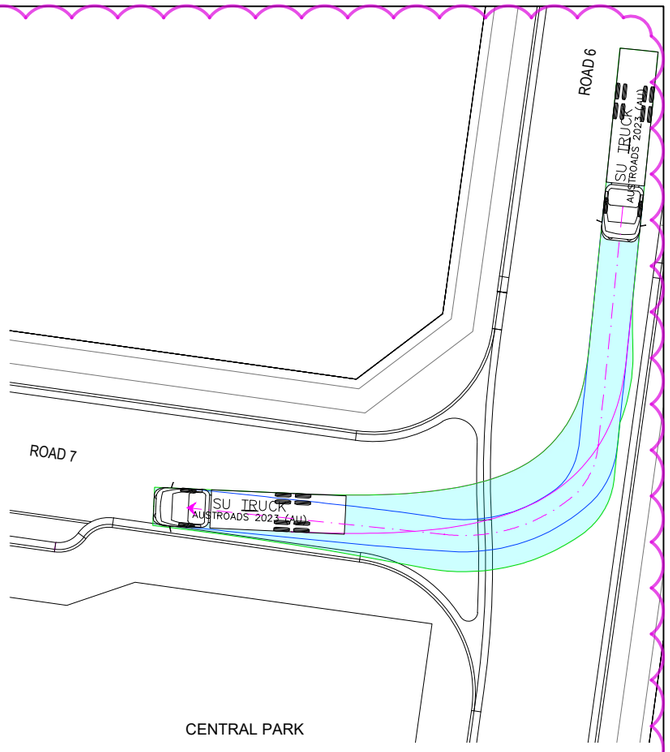
N

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 708 | C |

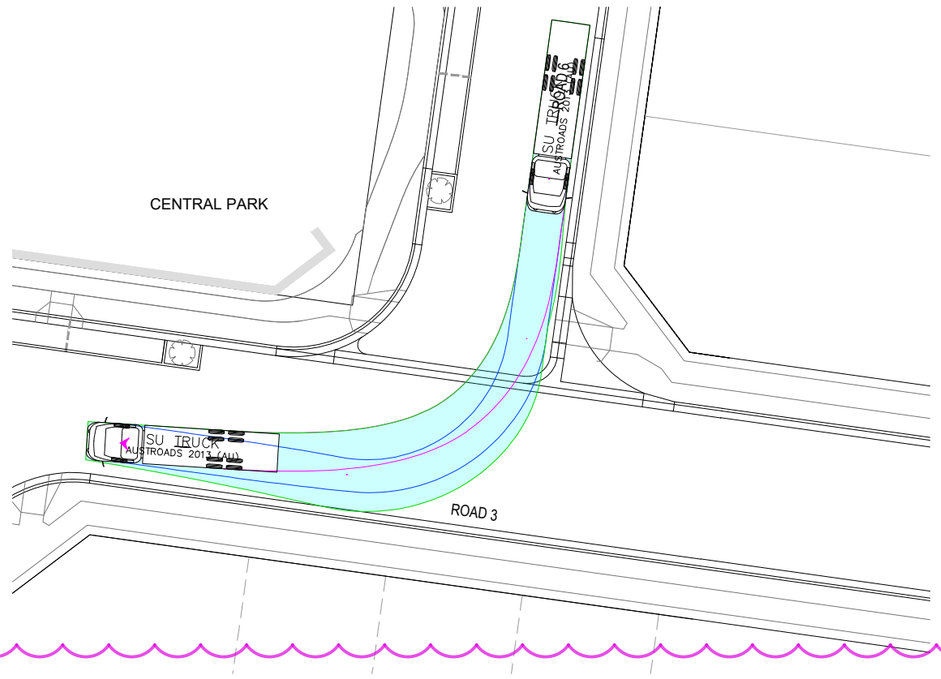
C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-700-TURN.dwg



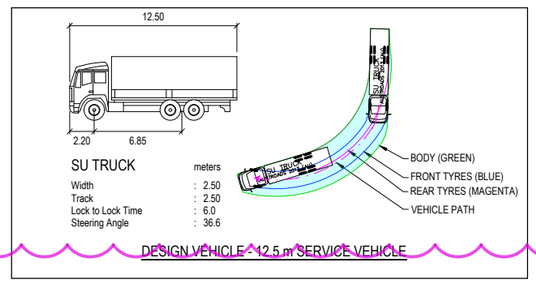

SU TRUCK - LEFT IN / LEFT OUT



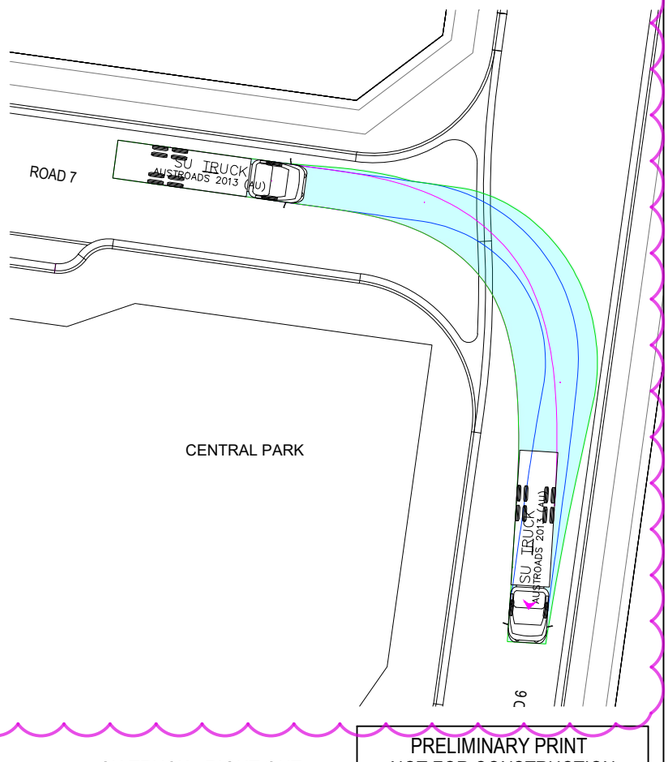

SU TRUCK - RIGHT IN




SU TRUCK - LEFT IN / LEFT OUT




DESIGN VEHICLE - 12.5 m SERVICE VEHICLE




SU TRUCK - RIGHT OUT

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | UPDATED RESPONSE TO SUBMISSIONS | 05.05.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

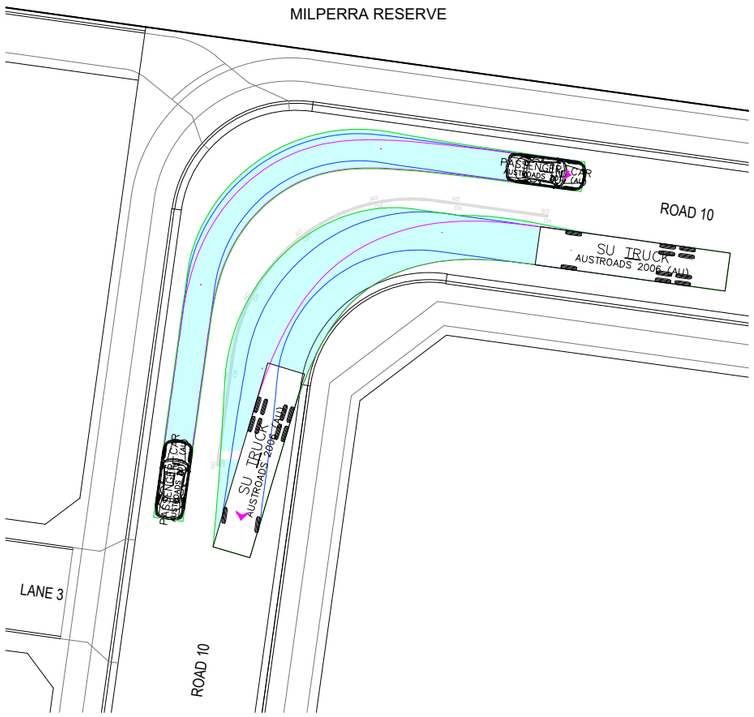
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TURNING MOVEMENTS
SHEET 10 OF 18

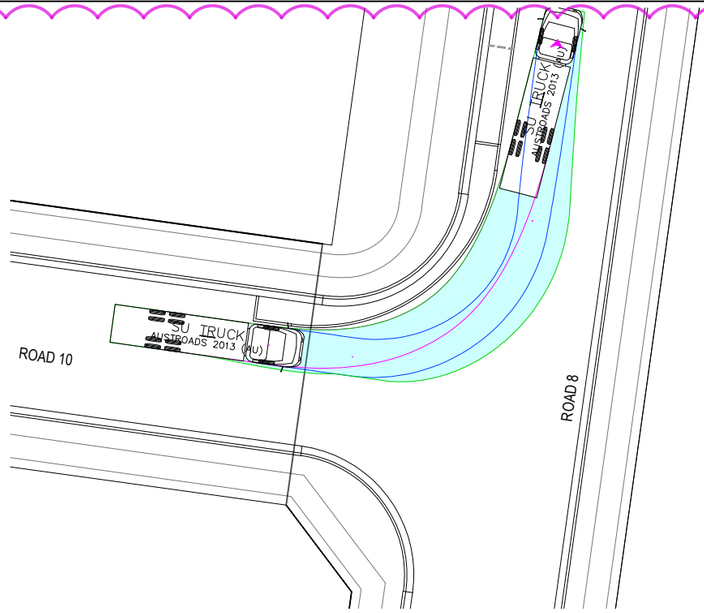
Sheet 141 of162
Scale 1:200 @ A1

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 709 | C |

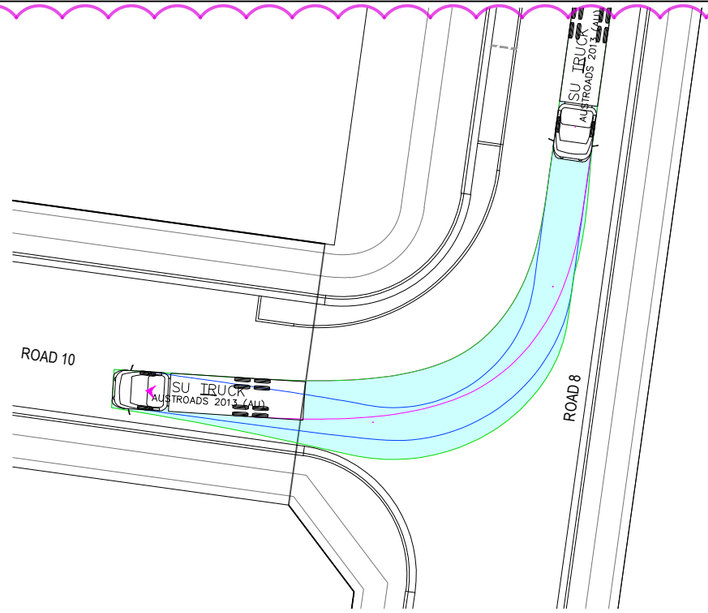
C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-700-TURN.dwg




CAR OUTSIDE / SU TRUCK INSIDE



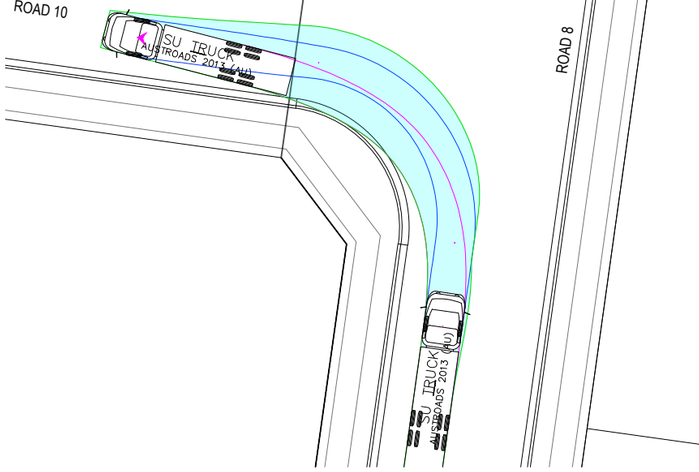

SU TRUCK - LEFT OUT



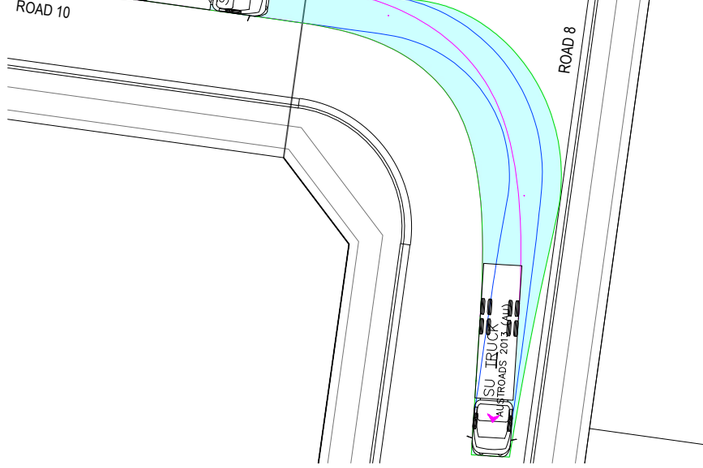

SU TRUCK - RIGHT IN



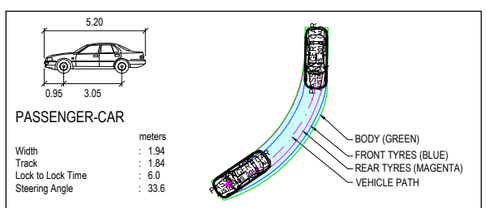

CAR INSIDE / SU TRUCK OUTSIDE



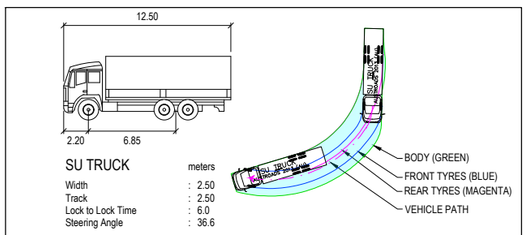

SU TRUCK - LEFT IN




SU TRUCK - RIGHT OUT




DESIGN VEHICLE - 5.2m CAR




DESIGN VEHICLE - 12.5 m SERVICE VEHICLE

C

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | UPDATED RESPONSE TO SUBMISSIONS | 05.05.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

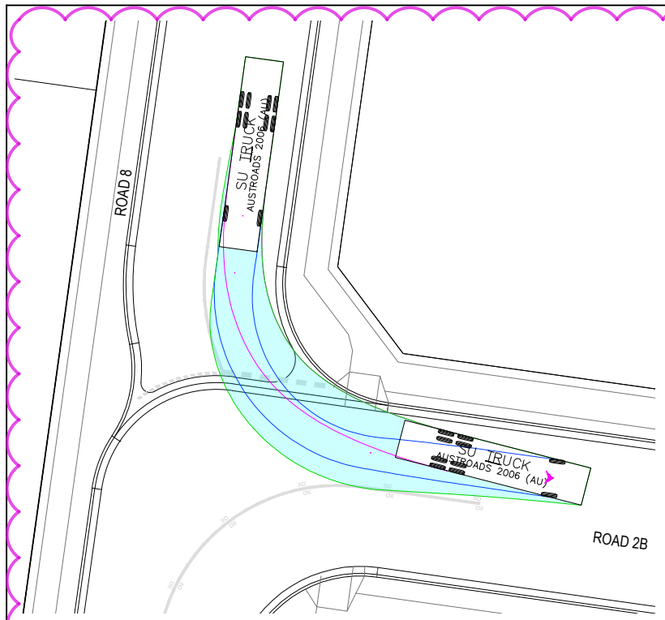
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TURNING MOVEMENTS
SHEET 11 OF 18

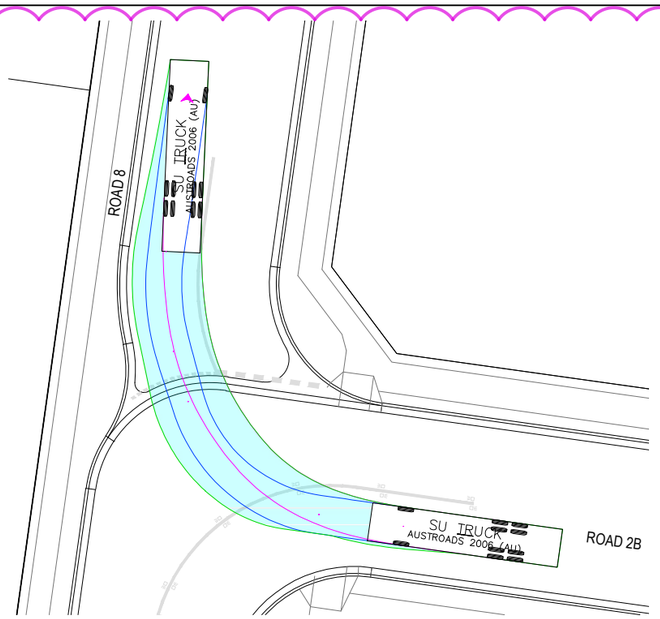
Sheet 142 of162
Scale 1:200 @ A1

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 710 | C |

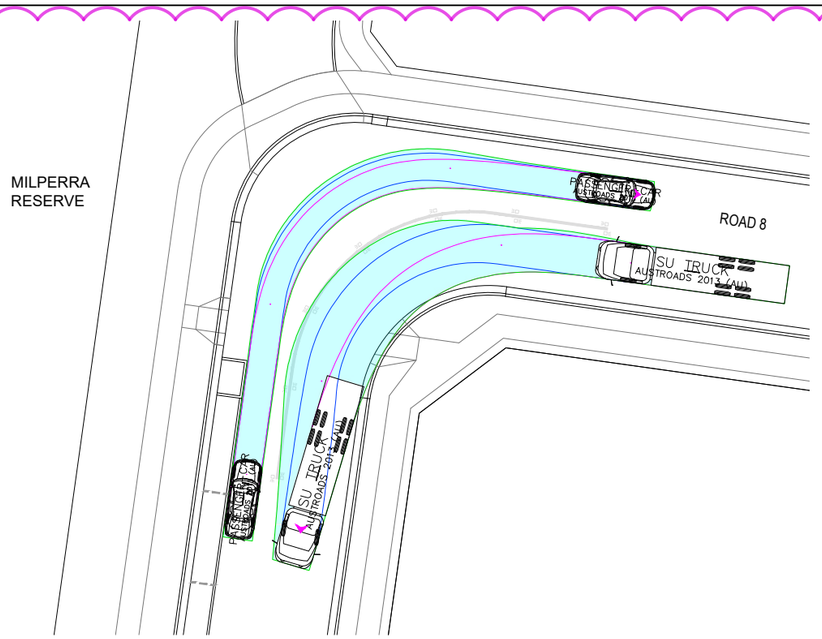
C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-700-TURN.dwg




SU TRUCK - LEFT OUT

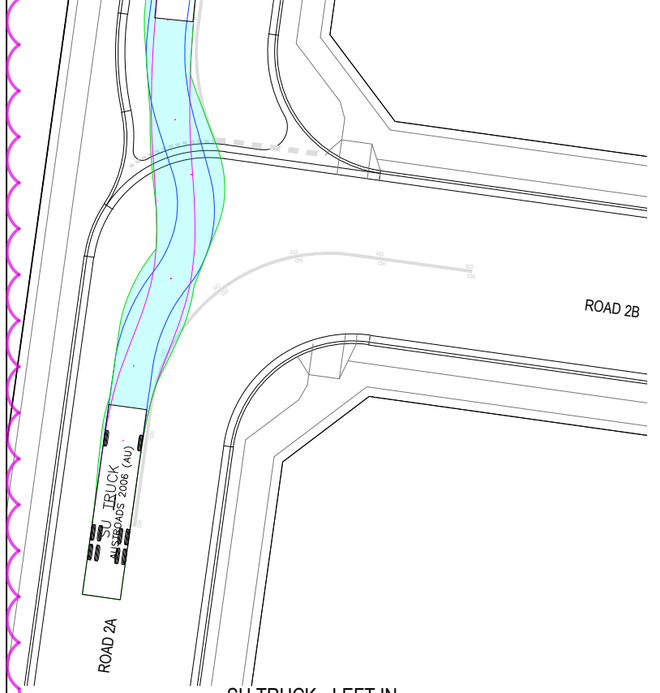



SU TRUCK - RIGHT IN

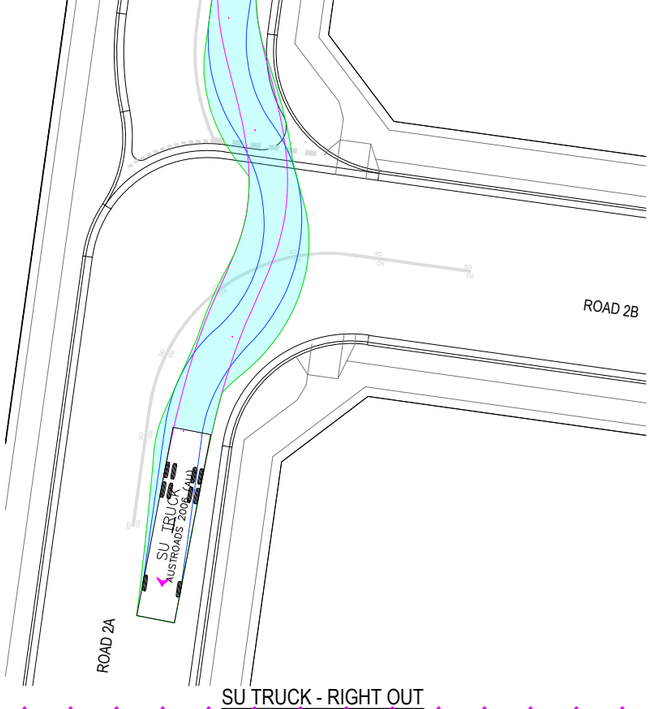



CAR OUTSIDE / SU TRUCK INSIDE

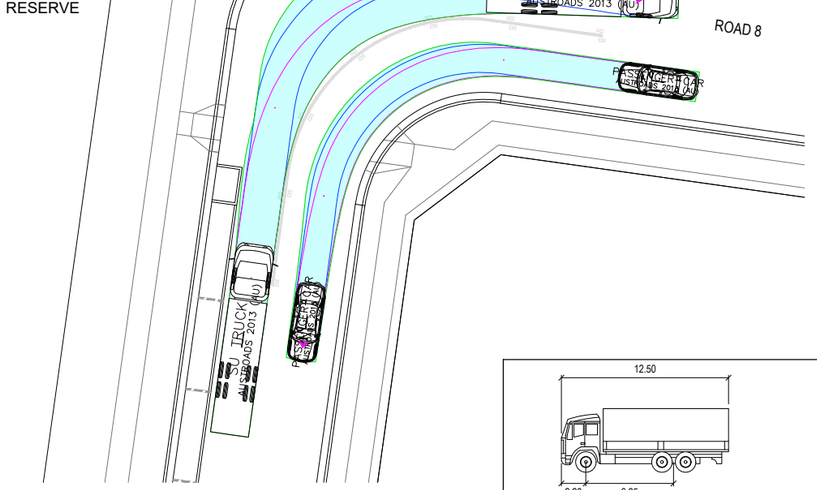
C



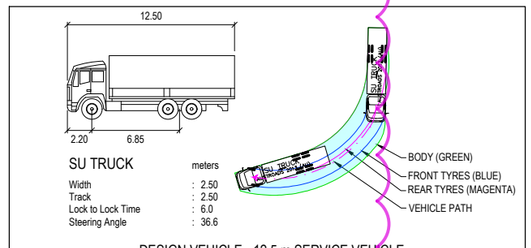

SU TRUCK - LEFT IN




SU TRUCK - RIGHT OUT




CAR INSIDE / SU TRUCK OUTSIDE




DESIGN VEHICLE - 12.5 m SERVICE VEHICLE

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | UPDATED RESPONSE TO SUBMISSIONS | 05.05.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | |
| Date | 07.11.25 |
| DA Number | - |

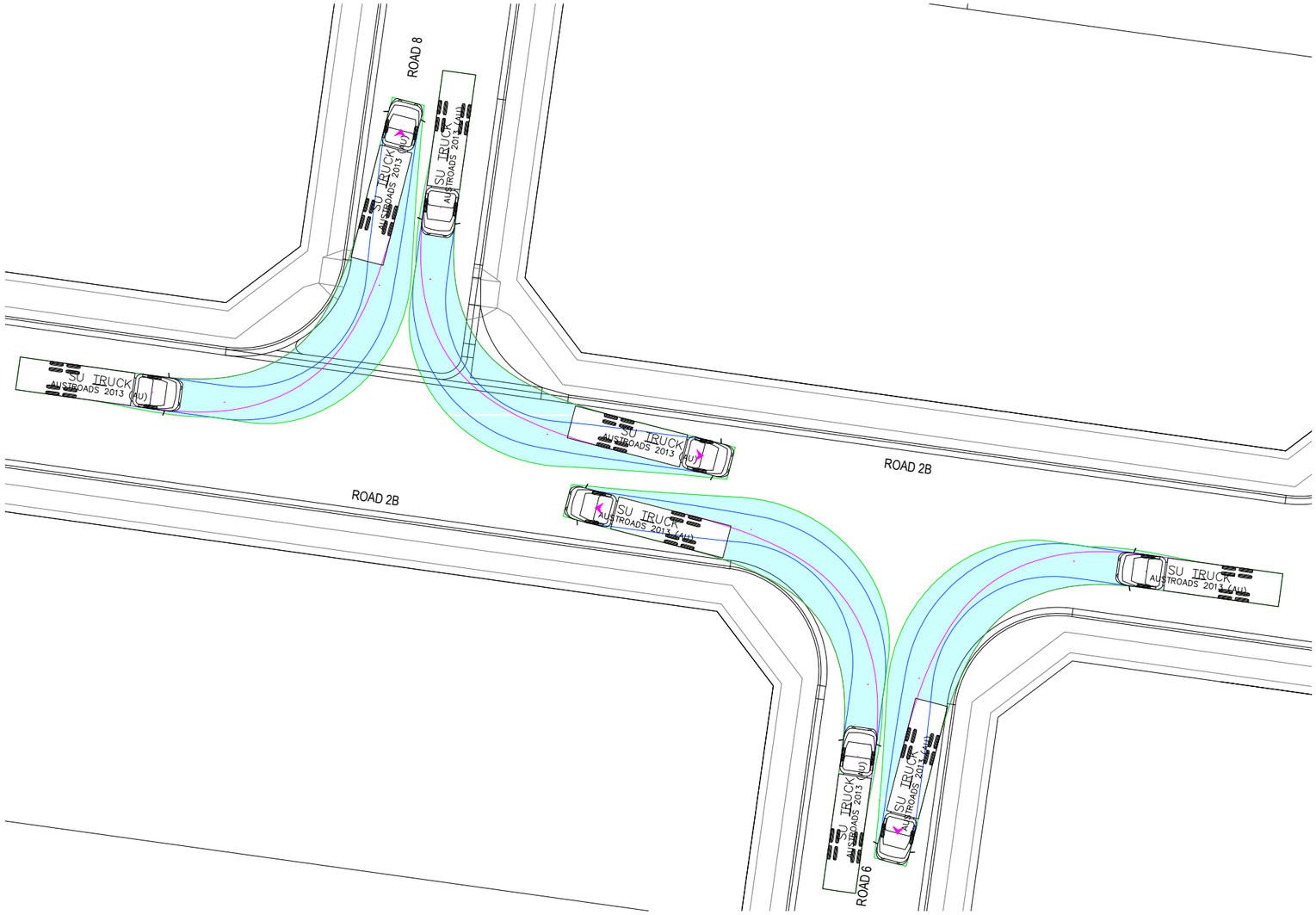
Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2 & 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | TURNING MOVEMENTS<br>SHEET 12 OF 18 |

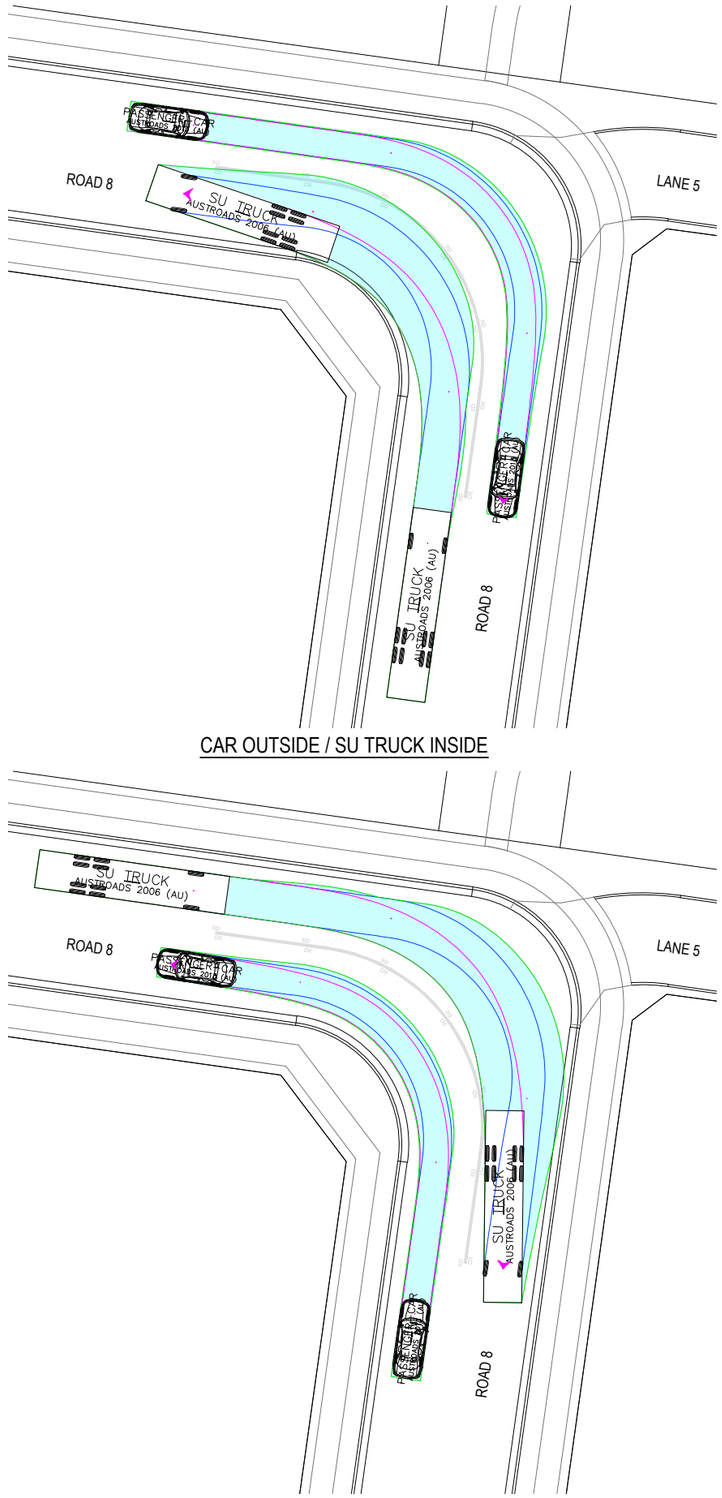
Sheet 143 of162
Scale 1:200 @ A1
N

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 711 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-700-TURN.dwg



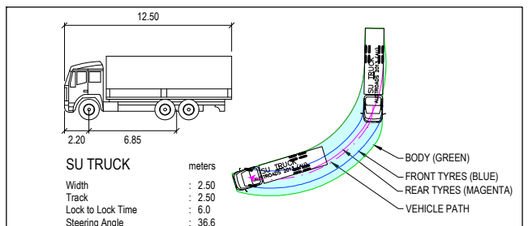

SU TRUCK - LEFT IN / LEFT OUT




CAR OUTSIDE / SU TRUCK INSIDE



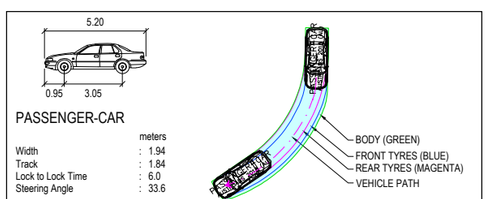

CAR INSIDE / SU TRUCK OUTSIDE




SU TRUCK

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

DESIGN VEHICLE - 12.5 m SERVICE VEHICLE




PASSENGER-CAR

| | meters |
|---|---|
| Width | : 1.94 |
| Track | : 1.84 |
| Lock to Lock Time | : 6.0 |
| Steering Angle | : 33.6 |

DESIGN VEHICLE - 5.2m CAR

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

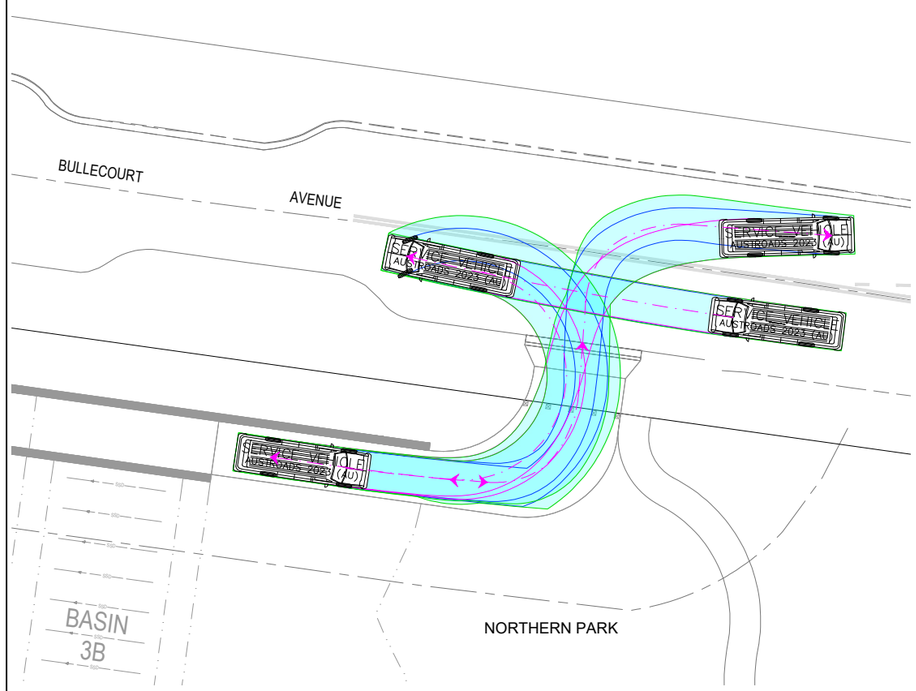
Drawing Title: TURNING MOVEMENTS
SHEET 13 OF 18

Sheet 144 of162

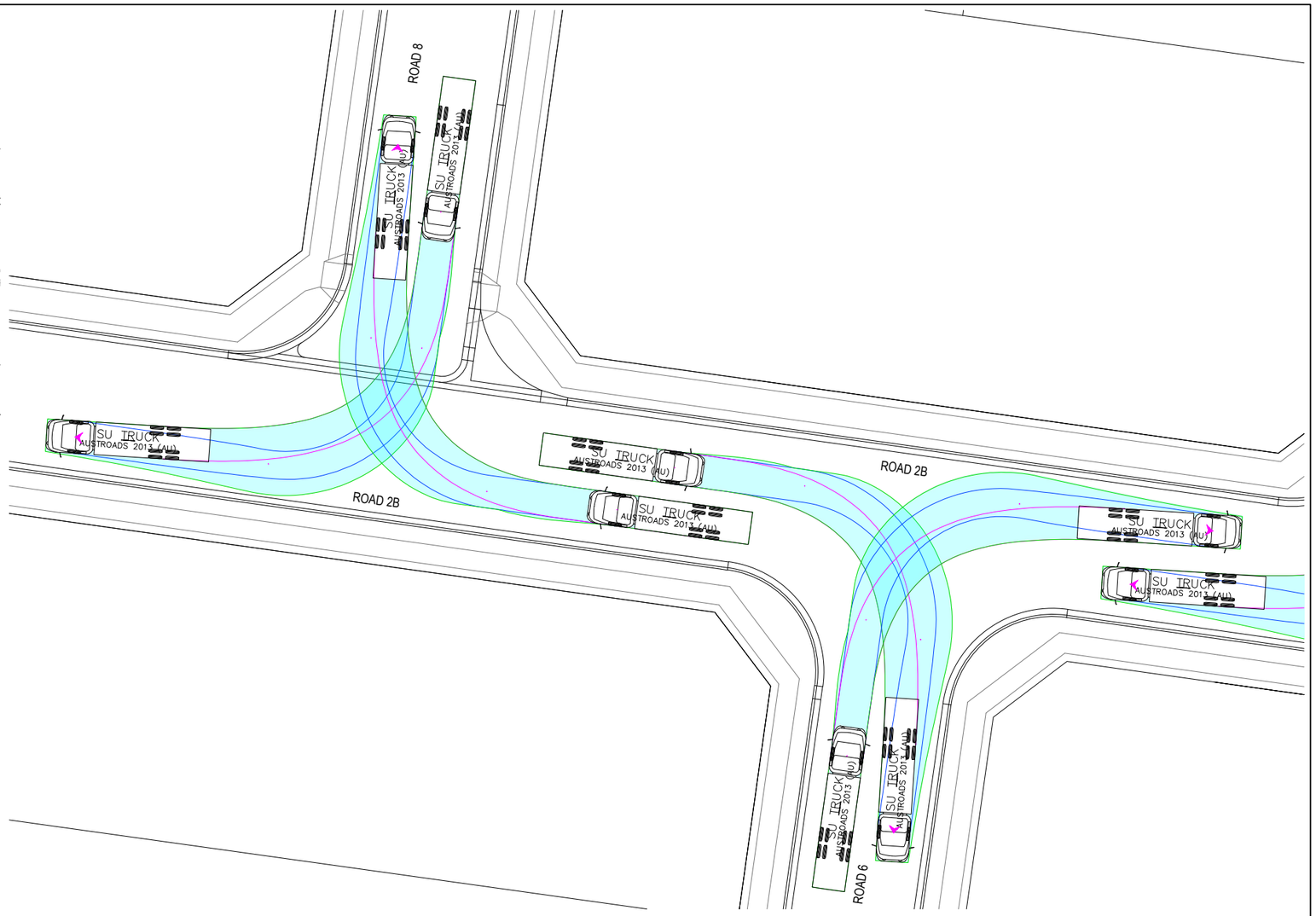
Scale: 1:200 @ A1

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 712 | B |

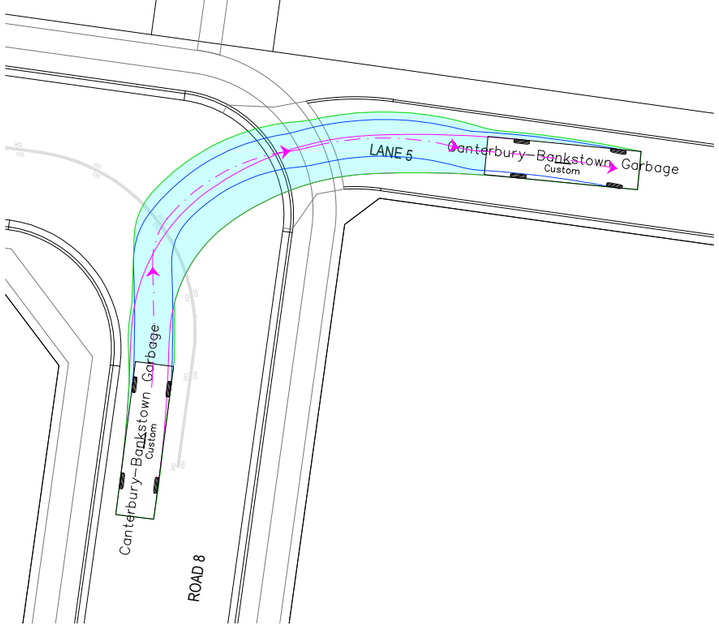
C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-700-TURN.dwg



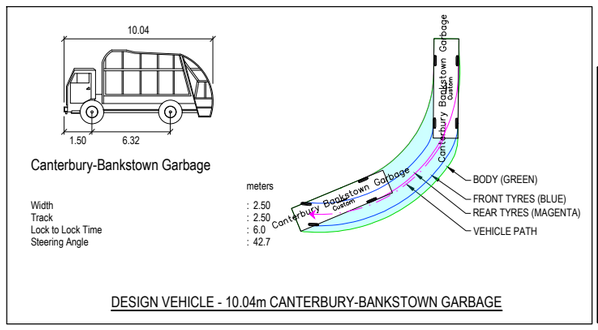

SERVICE VEHICLE INTO NORTHERN BASIN



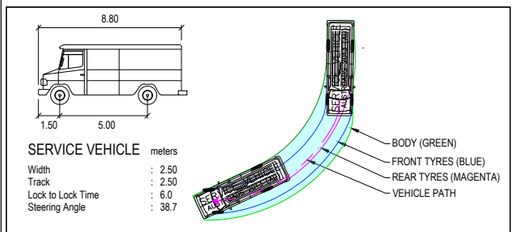

SU TRUCK - RIGHT IN / RIGHT OUT



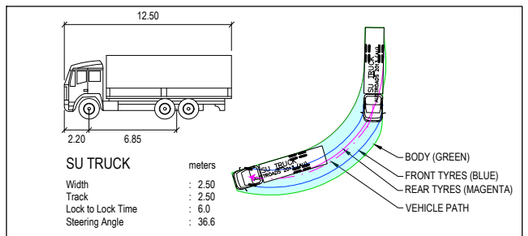

GARBAGE TRUCK - RIGHT IN




DESIGN VEHICLE - 10.04m CANTERBURY-BANKSTOWN GARBAGE




DESIGN VEHICLE - 8.8m SERVICE VEHICLE




DESIGN VEHICLE - 12.5 m SERVICE VEHICLE

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TURNING MOVEMENTS
SHEET 14 OF 18

Sheet 145 of162

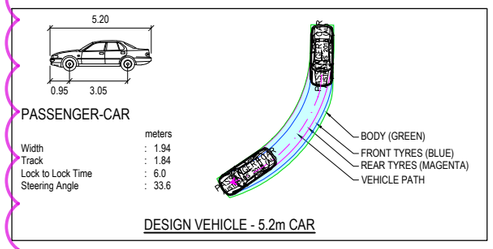
Scale: 1:200 @ A1

N

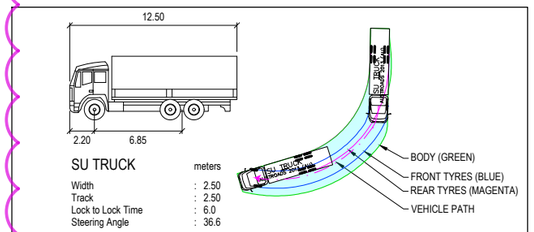
| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 713 | B |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-700-TURN.dwg

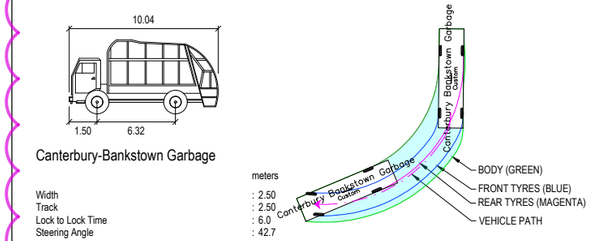
C



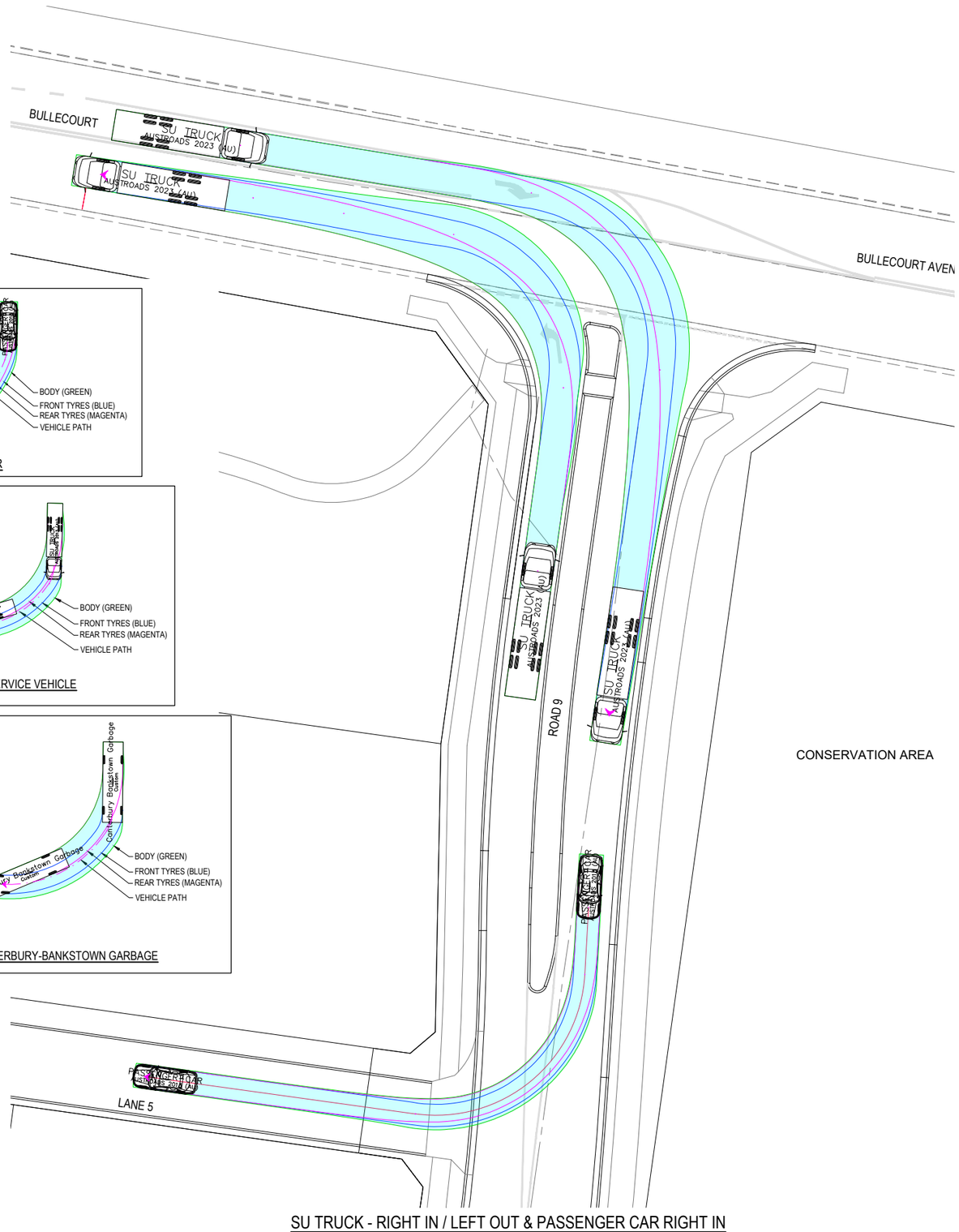

DESIGN VEHICLE - 5.2m CAR



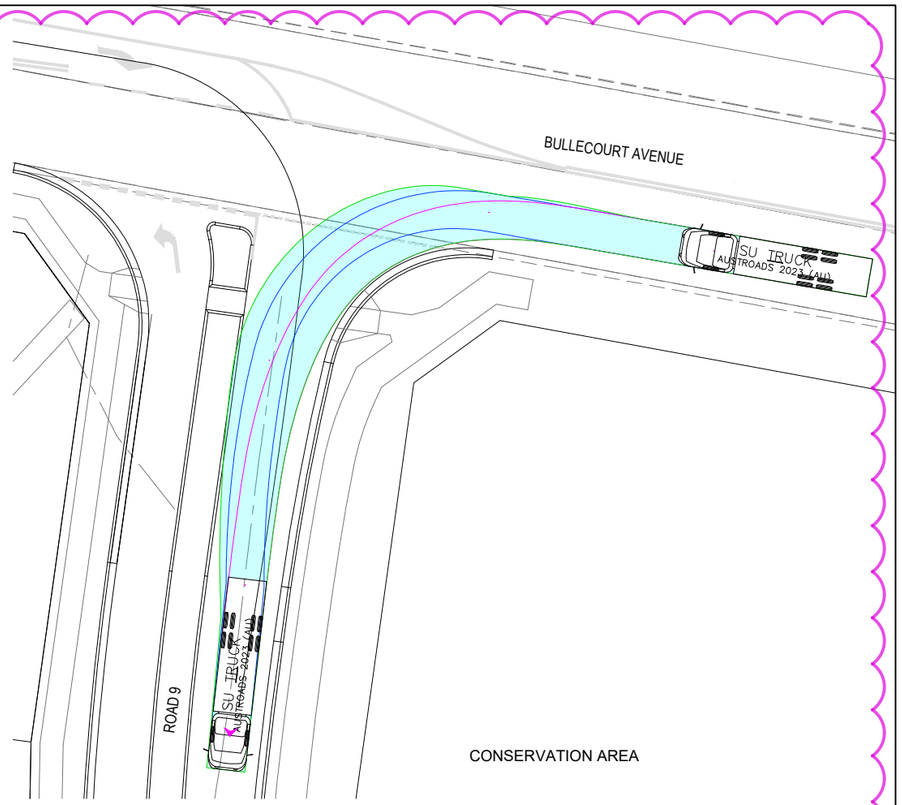

DESIGN VEHICLE - 12.5 m SERVICE VEHICLE



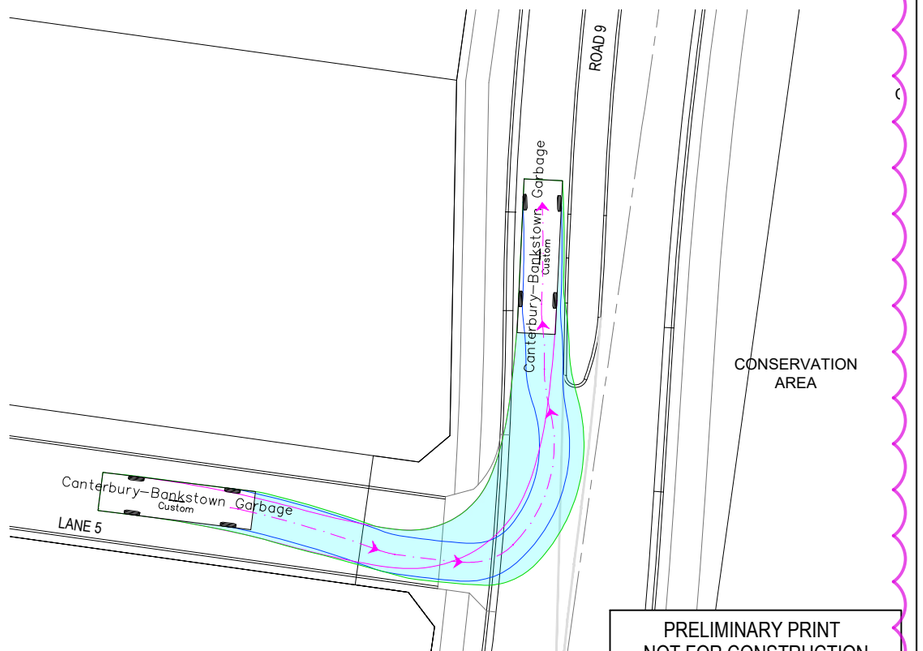

DESIGN VEHICLE - 10.04m CANTERBURY-BANKSTOWN GARBAGE




SU TRUCK - RIGHT IN / LEFT OUT & PASSENGER CAR RIGHT IN




SU TRUCK - LEFT IN




GARBAGE TRUCK - LEFT OUT

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT. All rights reserved.
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | UPDATED RESPONSE TO SUBMISSIONS | 05.05.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2 & 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | TURNING MOVEMENTS SHEET 15 OF 18 |

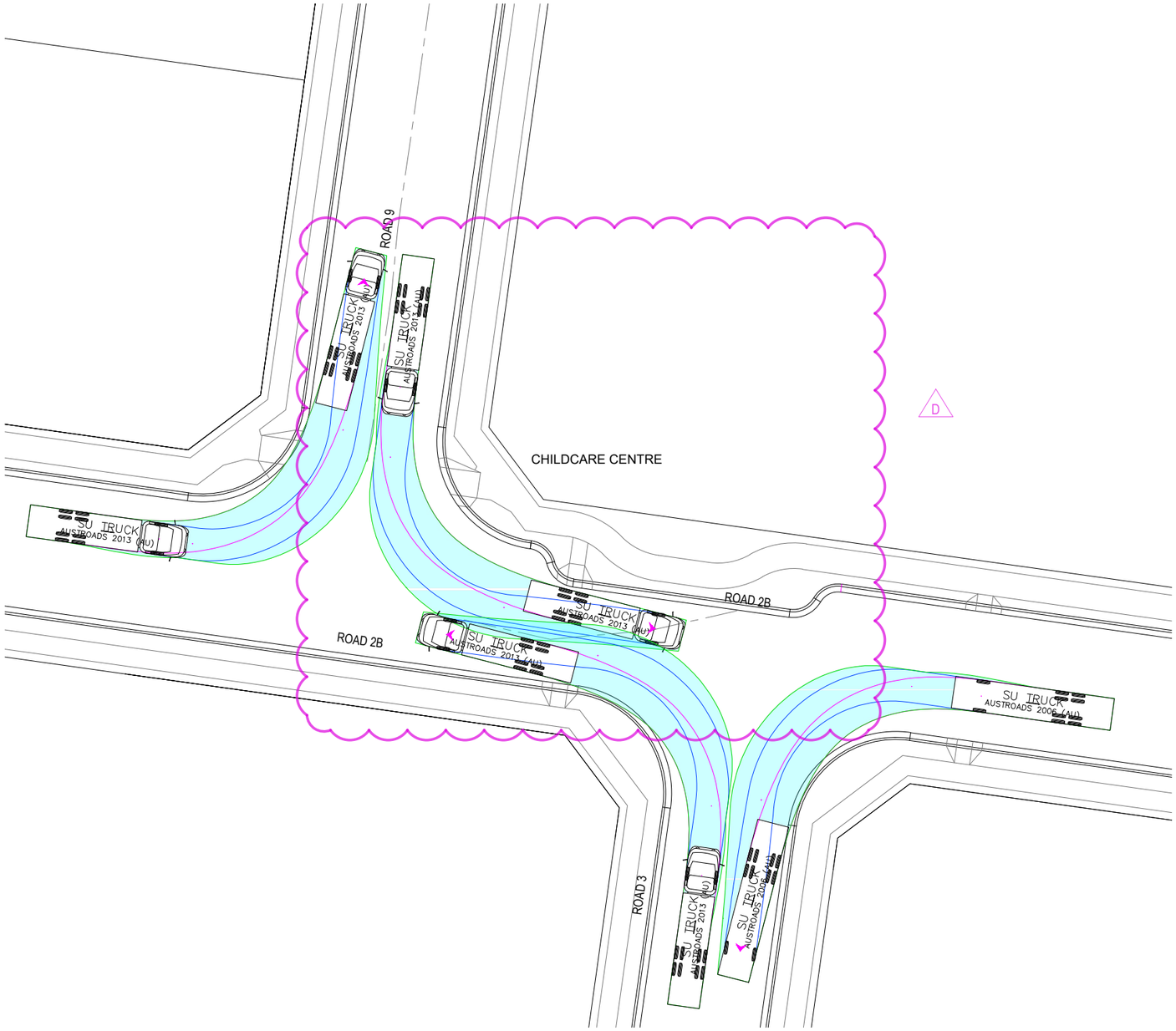
Sheet 146 of162

Scale 1:200 @ A1

N

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 714 | C |

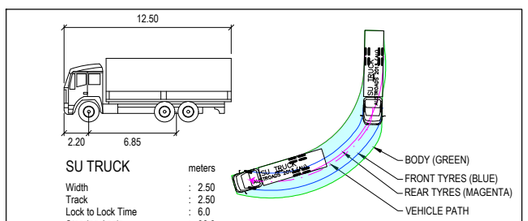
C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-700-TURN.dwg




SU TRUCK - LEFT IN / LEFT OUT



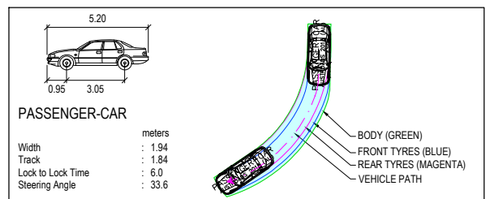

PASSENGER CAR - PARKING MANOUVRES




SU TRUCK

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

DESIGN VEHICLE - 12.5 m SERVICE VEHICLE




PASSENGER-CAR

| | meters |
|---|---|
| Width | : 1.94 |
| Track | : 1.84 |
| Lock to Lock Time | : 6.0 |
| Steering Angle | : 33.6 |

DESIGN VEHICLE - 5.2m CAR

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| D | RESPONSE TO REQUEST FOR INFORMATION | 10.06.26 | GN | SG |
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

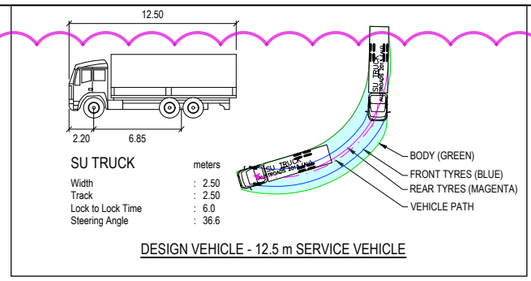
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TURNING MOVEMENTS
SHEET 16 OF 18

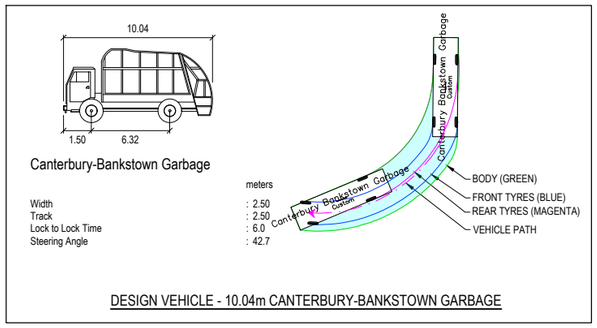
Sheet 147 of162
Scale 1:200 @ A1

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 715 | D |

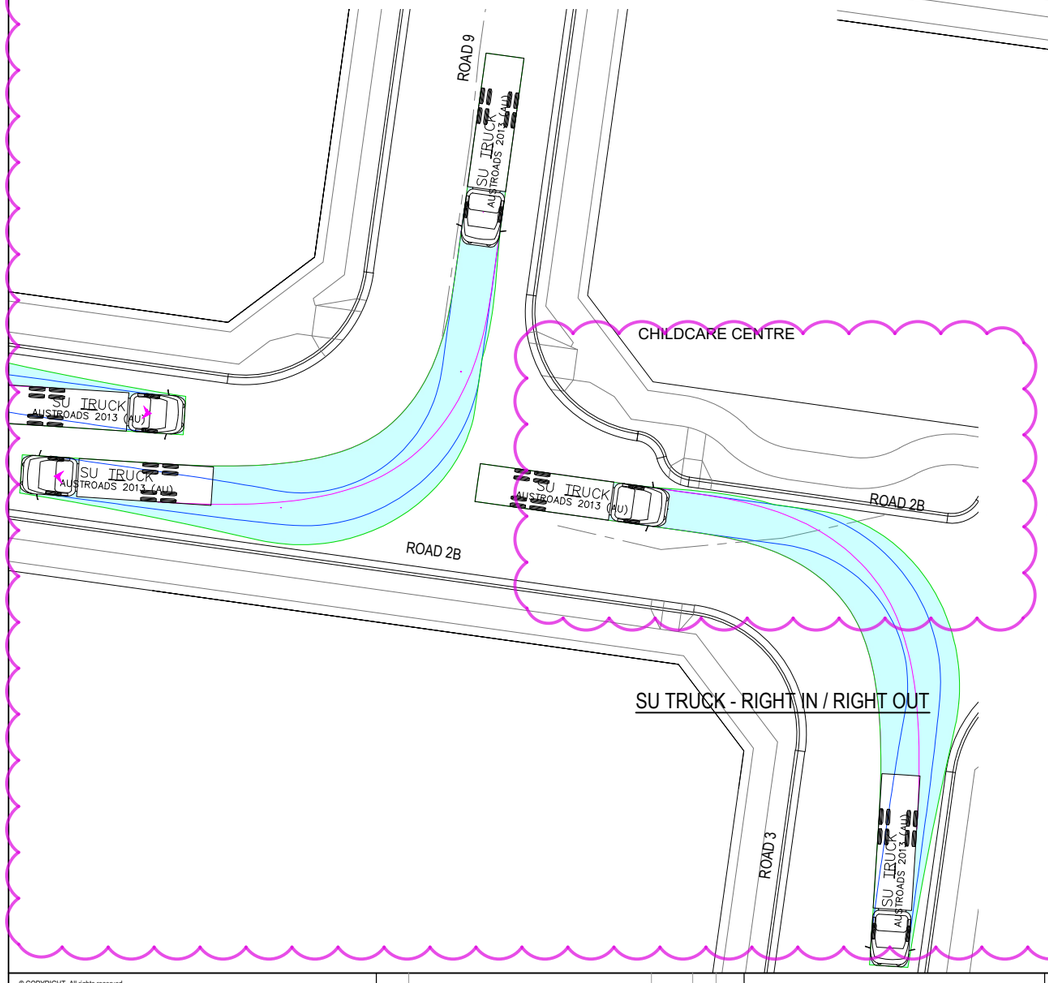
C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-700-TURN.dwg



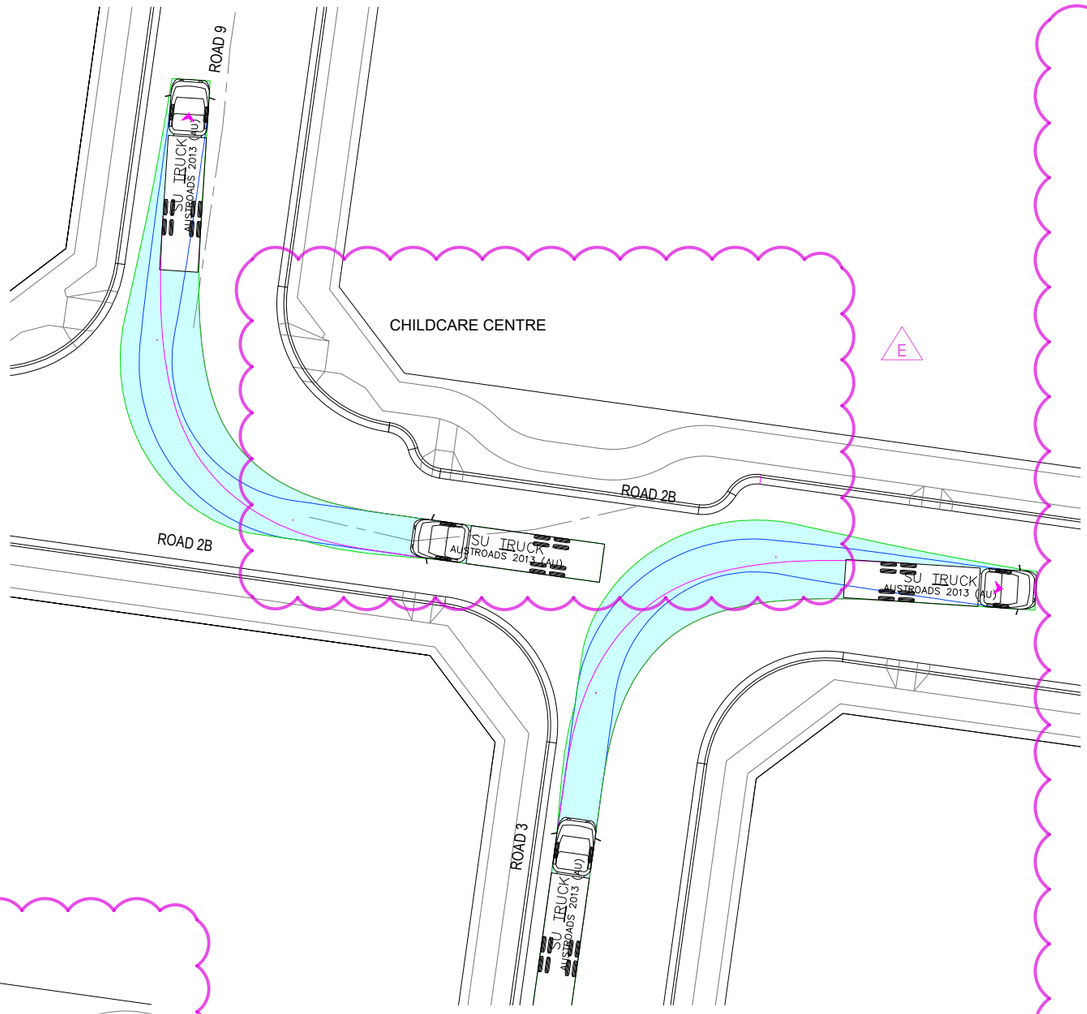

DESIGN VEHICLE - 12.5 m SERVICE VEHICLE

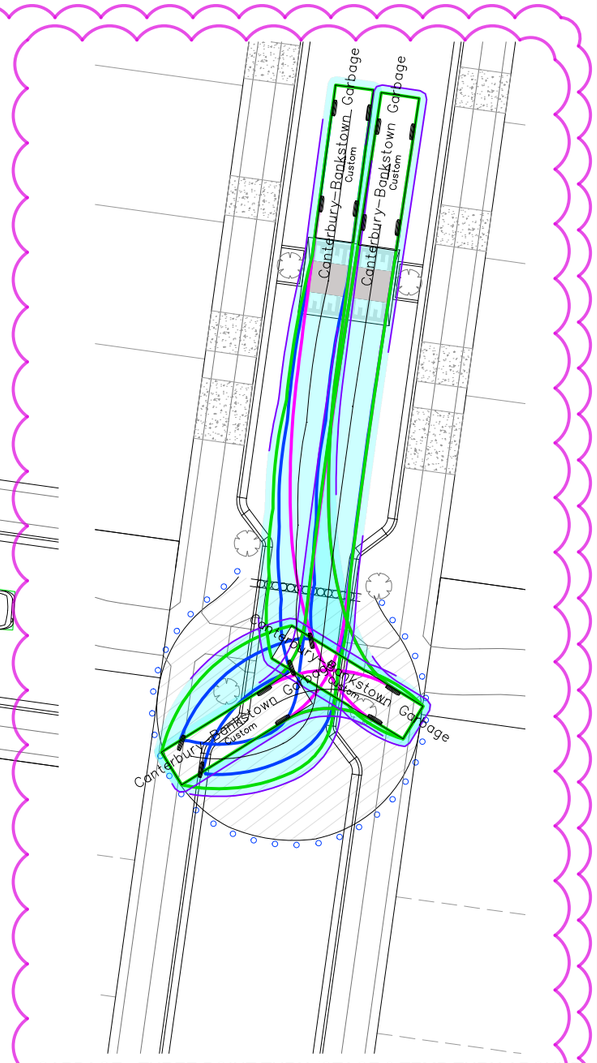



DESIGN VEHICLE - 10.04m CANTERBURY-BANKSTOWN GARBAGE




SU TRUCK - RIGHT IN / RIGHT OUT




GARBAGE - THREE POINT TURN (STAGE 2 TEMP TURN AROUND)

C

D

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| E | RESPONSE TO REQUEST FOR INFORMATION | 10.06.26 | GN | SG |
| D | UPDATED RESPONSE TO SUBMISSIONS | 05.05.26 | GN | SG |
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2 & 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | TURNING MOVEMENTS<br>SHEET 17 OF 18 |

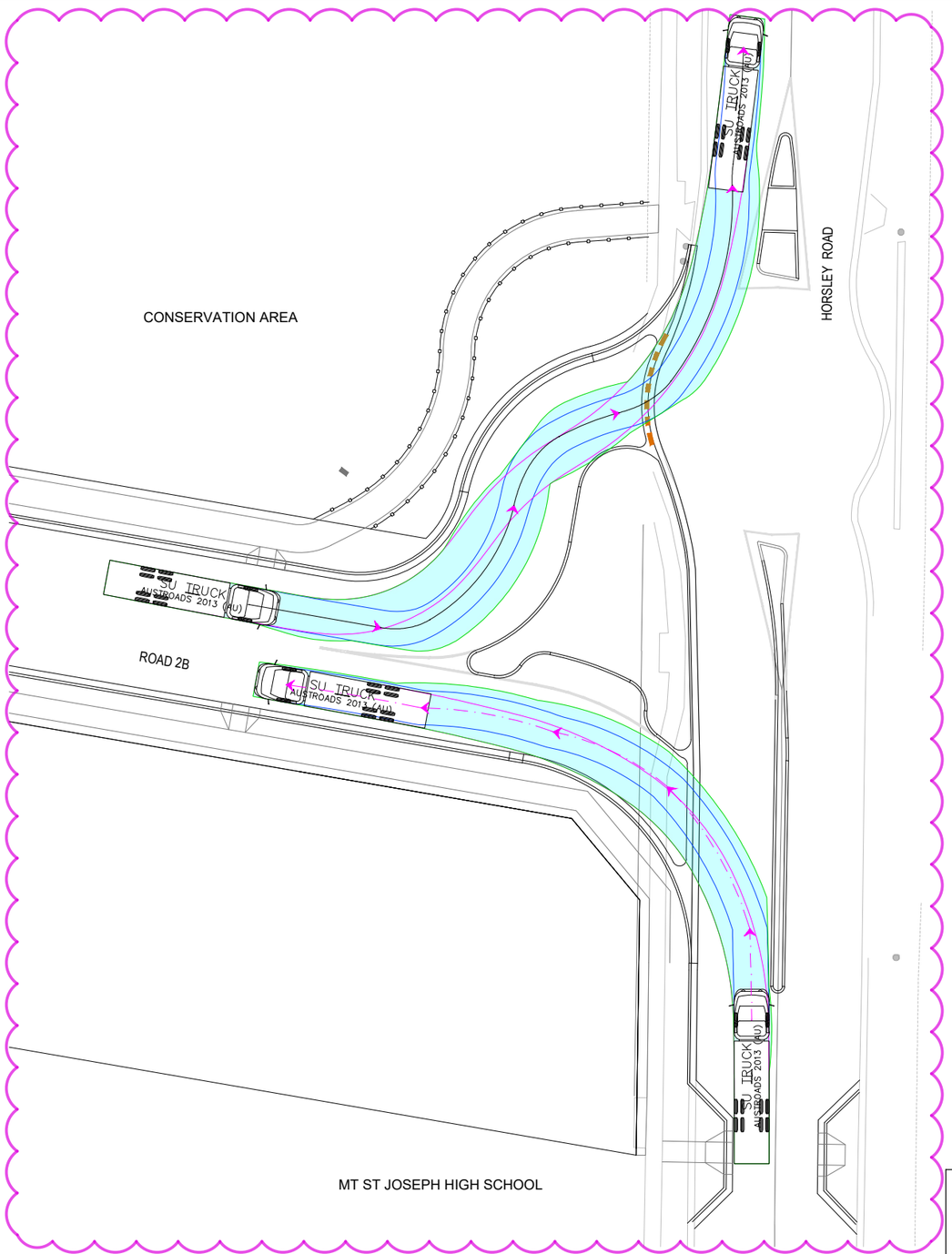
Sheet 148 of162

Scale 1:200 @ A1

N

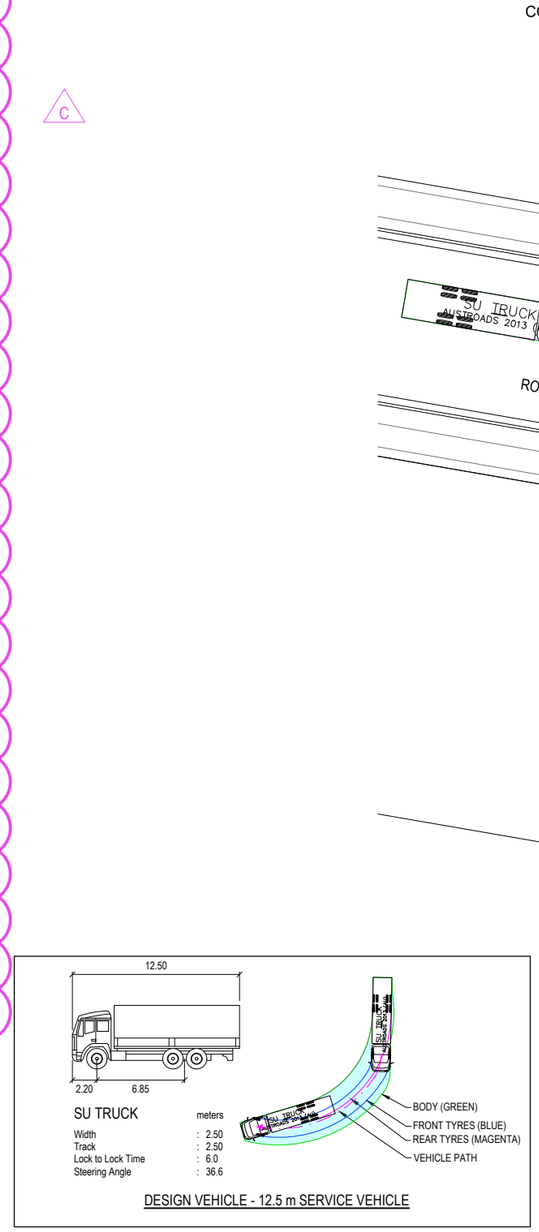
| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 716 | E |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-700-TURN.dwg

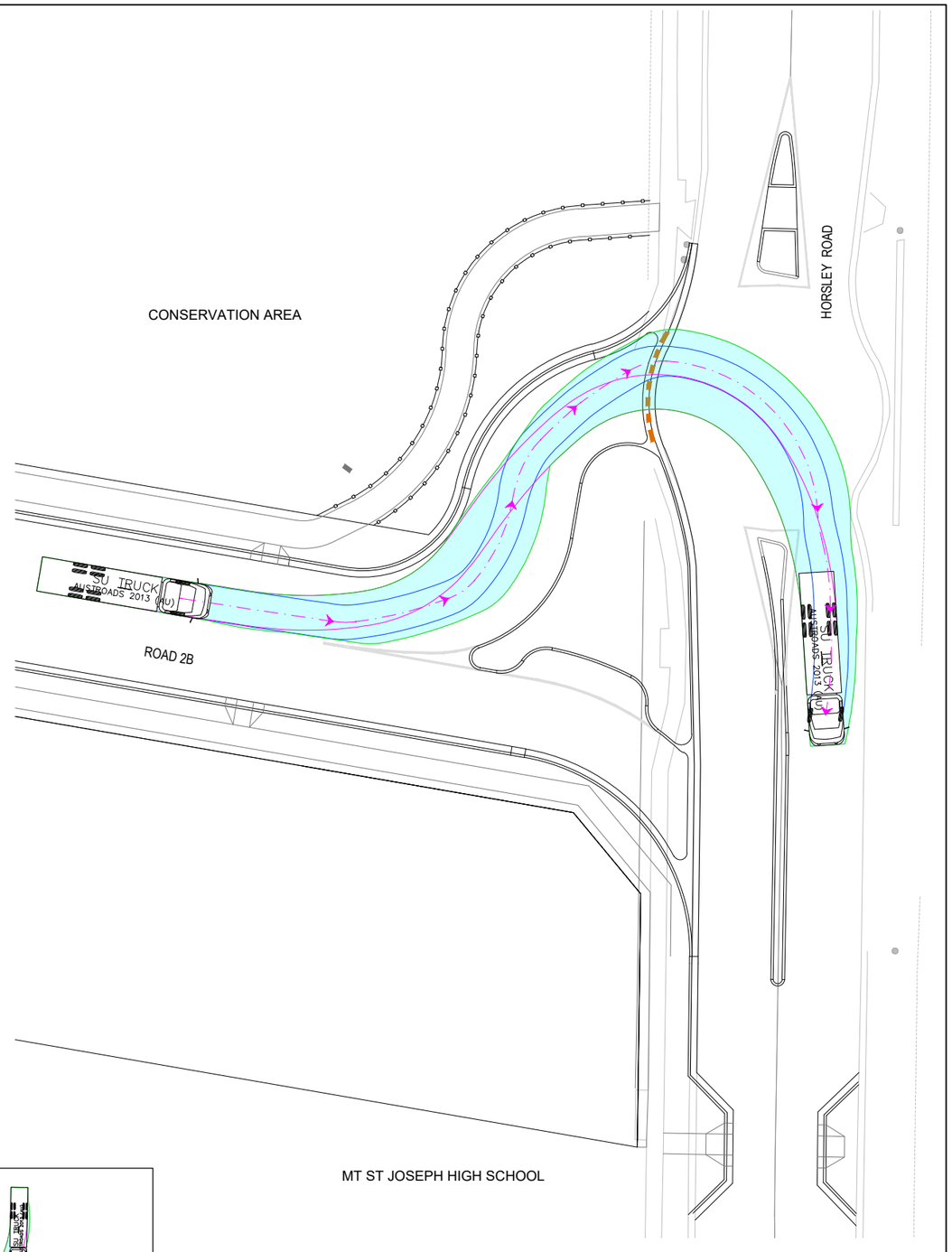



TRUCK - ENTRY AND EXIT - ROAD 2 & HORSLEY ROAD

C




DESIGN VEHICLE - 12.5 m SERVICE VEHICLE




TRUCK - EXIT - ROAD 2 & HORSLEY ROAD

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | UPDATED RESPONSE TO SUBMISSIONS | 05.05.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 2 4 8 12 16
SCALE 1:200 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Approved | |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: TURNING MOVEMENTS
SHEET 18 OF 18

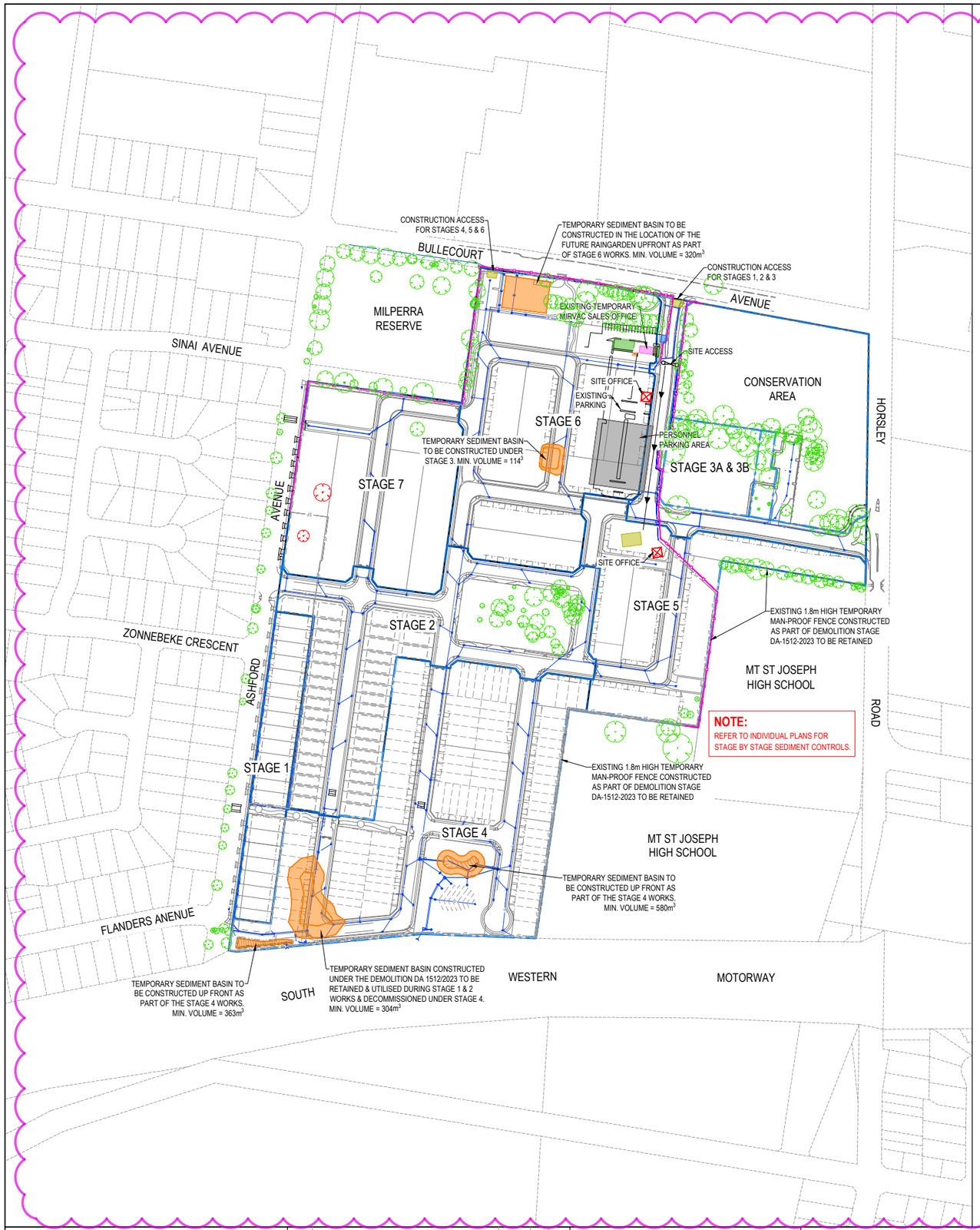
Sheet 149 of162

Scale: 1:200 @ A1

N

| Project Number | Reference | Drawing No | Revision |
|---|---|---|---|
| 2301879 | 321 | 717 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-700-TURN.dwg




## 1. Erosion Hazard and Sediment Basins

**Site Name:** WSU Milperra

**Site Location:** 2 Bullecourt Ave, Milperra

**Precinct/Stage:** All Stages

**Other Details:** Stage 1 & 2 (Temp), 3 (Temp ), 4B & 5 (Temp in Permanent), 4A & 7 (Temp in Permanent), 6 & 3 (Temp in Permanent)

| Site area | Sub-catchment or Name of Structure | | | | | | Notes |
|---|---|---|---|---|---|---|---|
| | 1 & 2 | 3 | 4B & 5 | 4A & 7 | 6 & 3 | | |
| Total catchment area (ha) | 3.838 | 1.562 | 7.712 | 5.033 | 4.337 | | |
| Disturbed catchment area (ha) | 3.838 | 0.876 | 5.575 | 2.584 | 2.775 | | |
| **Soil analysis (enter sediment type if known, or laboratory particle size data)** | | | | | | | |
| Sediment Type (C, F or D) if known: | F | F | F | F | F | | From Appendix C (if known) |
| % sand (fraction 0.02 to 2.00 mm) | 33 | 33 | 33 | 33 | 33 | | Enter the percentage of each soil fraction. E.g. enter 10 for 10% |
| % silt (fraction 0.002 to 0.02 mm) | 33 | 33 | 33 | 33 | 33 | | |
| % clay (fraction finer than 0.002 mm) | 33 | 33 | 33 | 33 | 33 | | |
| Dispersion percentage | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | | E.g. enter 10 for dispersion of 10% |
| % of whole soil dispersible | 4.95 | 4.95 | 4.95 | 4.95 | 4.95 | | See Section 6.3.3(e). Auto-calculated |
| Soil Texture Group | F | F | F | F | F | | Automatic calculation from above |
| **Rainfall data** | | | | | | | |
| Design rainfall depth (no of days) | 5 | 5 | 5 | 5 | 5 | | See Section 6.3.4 and, particularly, Table 6.3 on pages 6-24 and 6-25. |
| Design rainfall depth (percentile) | 75 | 75 | 75 | 75 | 75 | | |
| x-day, y-percentile rainfall event (mm) | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | | |
| Rainfall R-factor (if known) | 2600 | 2600 | 2600 | 2600 | 2600 | | Only need to enter one or the other here |
| IFD: 2-year, 6-hour storm (if known) | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | | |
| **RUSLE Factors** | | | | | | | |
| Rainfall erosivity (*R*-factor) | 2600 | 2600 | 2600 | 2600 | 2600 | | Auto-filled from above |
| Soil erodibility (*K*-factor) | 0.038 | 0.038 | 0.038 | 0.038 | 0.038 | | RUSLE LS factor calculated for a high rill/interrill ratio. |
| Slope length (m) | 300 | 150 | 220 | 130 | 180 | | |
| Slope gradient (%) | 2 | 2 | 2 | 2 | 2 | | |
| Length/gradient (*LS*-factor) | 0.68 | 0.52 | 0.61 | 0.49 | 0.56 | | |
| Erosion control practice (*P*-factor) | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | |
| Ground cover (*C*-factor) | 1 | 1 | 1 | 1 | 1 | 1 | |
| **Sediment Basin Design Criteria (for Type D/F basins only. Leave blank for Type C basins)** | | | | | | | |
| Storage (soil) zone design (no of months) | 2 | 2 | 2 | 2 | 2 | 2 | Minimum is generally 2 months |
| Cv (Volumetric runoff coefficient) | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | See Table F2, page F-4 in Appendix F |
| **Calculations and Type D/F Sediment Basin Volumes** | | | | | | | |
| Soil loss (t/ha/yr) | 88 | 67 | 78 | 63 | 72 | | |
| Soil Loss Class | 1 | 1 | 1 | 1 | 1 | | See Table 4.2, page 4-13 |
| Soil loss ($m^3$/ha/yr) | 68 | 51 | 60 | 49 | 55 | | Conversion to cubic metres |
| Sediment basin storage (soil) volume ($m^3$) | 43 | 8 | 56 | 21 | 26 | | See Sections 6.3.4(i) for calculations |
| Sediment basin settling (water) volume ($m^3$) | 261 | 106 | 524 | 342 | 294 | | See Sections 6.3.4(i) for calculations |
| Sediment basin total volume ($m^3$) | 304 | 114 | 580 | 363 | 320 | | |

### CONSTRUCTION SEQUENCE

FOLLOWING REMEDIATION OF THE AREA:

1. PLACE ALL SEDIMENT CONTROLS INCLUDING BASINS & OVERLAND FLOW PATHS FOR PCA APPROVAL BEFORE STARTING ANY WORKS ON SITE.
2. ALL TOPSOIL CONTAINING VEGETATION TO BE STRIPPED FROM EXISTING SURFACE & STOCKPILED FOR REMOVAL OFF-SITE (APPROX. 75mm THICK).
3. ALL TOPSOIL NOT CONTAINING VEGETATION TO BE STRIPPED FROM THE SITE & STOCKPILED FOR AMELIORATION FOR USE ELSEWHERE IN THE SITE OR BLENDING WITH CLAY / FILL TO BE USED AS FILL MATERIAL ON SITE.
4. PLACE REMEDIATION MATERIAL AT DEPTH IN ACCORDANCE WITH GEOTECHNICAL & ENVIRONMENTAL / SITE AUDITOR DIRECTION. MATERIAL TO BE BLENDED WITH FILL MATERIAL TO ACHIEVE COMPACTION REQUIREMENTS. ALL FILL TO BE PLACED UNDER LEVEL 1 GEOTECHNICAL SUPERVISION.
5. STRIPPED SURFACE TO BE INSPECTED & CERTIFIED READY FOR FILL PLACEMENT BY GEOTECHNICAL ENGINEER.
6. COMPLETE INITIAL EARTHWORKS IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S REPORT
7. IMPORTED FILL TO BE CERTIFIED AS V.E.N.M. & FREE OF SLAG, HAZARDOUS, CONTAMINATED, TOXIC, PUTRESCIBLE OR RADIO-ACTIVE MATTER & INDUSTRIAL WASTE & BUILDING DEBRIS. THE ORIGIN OF FILL PROPOSED TO BE IMPORTED & THE ABOVE CERTIFICATION TO BE REVIEWED & APPROVED BY COUNCIL PRIOR TO ANY IMPORTED FILL ARRIVING ON SITE.
8. ALL FILL IS TO BE PLACED & COMPACTED IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATION.
9. ALL FILL TO BE PLACED UNDER LEVEL 1 GEOTECHNICAL SUPERVISION.
10. COPIES OF ALL FILL COMPACTION TESTS TO BE PROVIDED TO PRINCIPLE.
11. INSTALL ALL PIT & KERB INLET FILTERS / SEDIMENT TRAPS.
12. 300mm WIDE, 50mm THICK TOPSOIL TO BE PLACED BEHIND KERBS & TURFED WITH KIKUYU TURF WITH ADDITIONAL SEDIMENT FENCING FOR BUILDING SITES
13. FINAL TOPSOIL/ TURF & PATHWAYS WITHIN ROAD VERGES TO BE BONDED WITH COUNCIL & COMPLETED BY BUILDERS FOLLOWING HOUSE CONSTRUCTION

### SEDIMENT BASIN

1. THE CONTRACTOR IS TO ENSURE STORMWATER RUNOFF IS DIRECTED TO THE SEDIMENT BASIN WITH PLACEMENT OF TEMPORARY DIVERSION MOUNDS OR THE FORMATION OF OVERLAND FLOW PATHS.
2. DIVERSION MOUNDS & FLOW PATHS ARE TO BE ADJUSTED AS FILLING LAYERS PROGRESS & SURFACE LEVELS RISE.
3. SEDIMENT IS TO BE REMOVED SUCH THAT NOT LESS THAN 70% OF THE DESIGN CAPACITY IS AVAILABLE AT ALL TIMES MARKERS WITH DEPTH INDICATORS ARE TO BE PLACED IN EACH BASIN TO INDICATE WHEN SEDIMENT ACCUMULATION EXCEEDS 30% OF STORAGE REQUIREMENTS.
4. BASINS ARE TO BE FLOCCULATED WITH GYPSUM WHEN SUSPENDED SOLID CONCENTRATION EXCEEDS 50 *milligrams per litre*. SPREADING RATE TO BE DETERMINED AFTER TESTING AND ANALYSIS OF THE INITIAL STORM EVENT. FIRST APPLICATION IS TO BE *30 kilograms GYPSUM PER 100 cum*. OF STORED WATER & THEREAFTER AS DETERMINED BY TESTING. PUMP OUT CLEAN WATER TO LARGE GRASSED / VEGETATED AREA WITHIN 72 hrs OF TREATMENT. REFER LANDCOM SOIL & CONSTRUCTION - "MANAGING URBAN STORMWATER" MANUAL - APPENDIX E
5. UPON ADEQUATE SITE REVEGETATION & COUNCIL APPROVAL SEDIMENT BASIN IS TO BE DECOMMISSIONED & CONVERTED INTO RAINGARDENS PER DESIGN.

### LEGEND

- EXISTING SURFACE CONTOURS
- PROPOSED DRAINAGE PIPE AND PIT
- GRAVEL KERB INLET SEDIMENT TRAP
- GEOTEXTILE FILTER AROUND GRATED SURFACE INLET PITS
- STABILISED ACCESS POINT
- NEW 1.8m HIGH TEMPORARY MANPROOF FENCE W/ SHADE CLOTH
- HI-VIS MESH FENCING TO LIMIT CONTRACTORS ACTIVITIES TO THE STAGE 1 LIMITS
- SFS — SAND OR AGGREGATE FILLED HESSIAN FILTER LAIDACROSS ROAD PAVEMENT TO TRAP LOCALISED SILT MATERIAL
- SEDIMENT FENCING
- STRAW BALE
- TEMPORARY MOUND TO DIVERT DIRTY WATER TO TEMPORARY SEDIMENT BASIN
- TEMPORARY SEDIMENT BASIN
- SITE OFFICE
- PERSONNEL PARKING AREA

NOTE: ALL SOIL AND WATER MANAGEMENT DETAILS ARE NOTED ON SOIL AND WATER MANAGEMENT NOTES. SEDIMENT & MANPROOF FENCES ARE TO BE LOCATED WHOLLY WITHIN BOUNDARIES & HAVE BEEN SHOWN DIAGRAMMATICALLY. PROVIDE CONSTRUCTION SIGN & AMENITIES IN ACCORDANCE WITH CONDITIONS OF THE DA.

NOTE: MEASURES PROPOSED IN THE PLAN ARE FOR GUIDANCE AND SUBJECT TO MODIFICATION TO SUIT CONTRACTORS METHODOLOGY & APPROVAL OF THE PRINCIPLE CERTIFYING AUTHORITY.

LEGEND:

_ _ _ _ _ _ _ INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT. All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 20 40 80 120 160
SCALE 1:2000 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

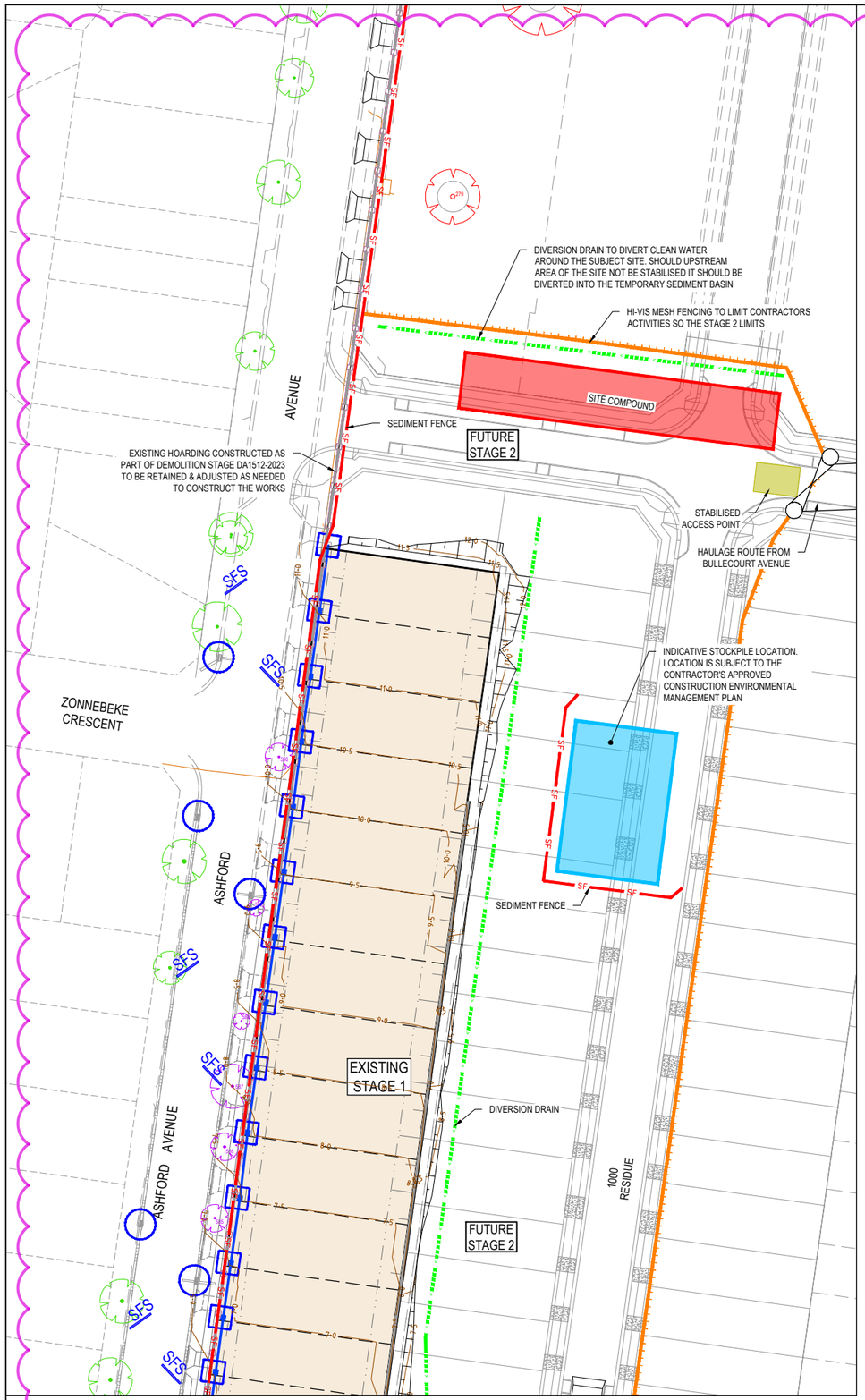
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: OVERALL SOIL & WATER MANAGEMENT PLAN

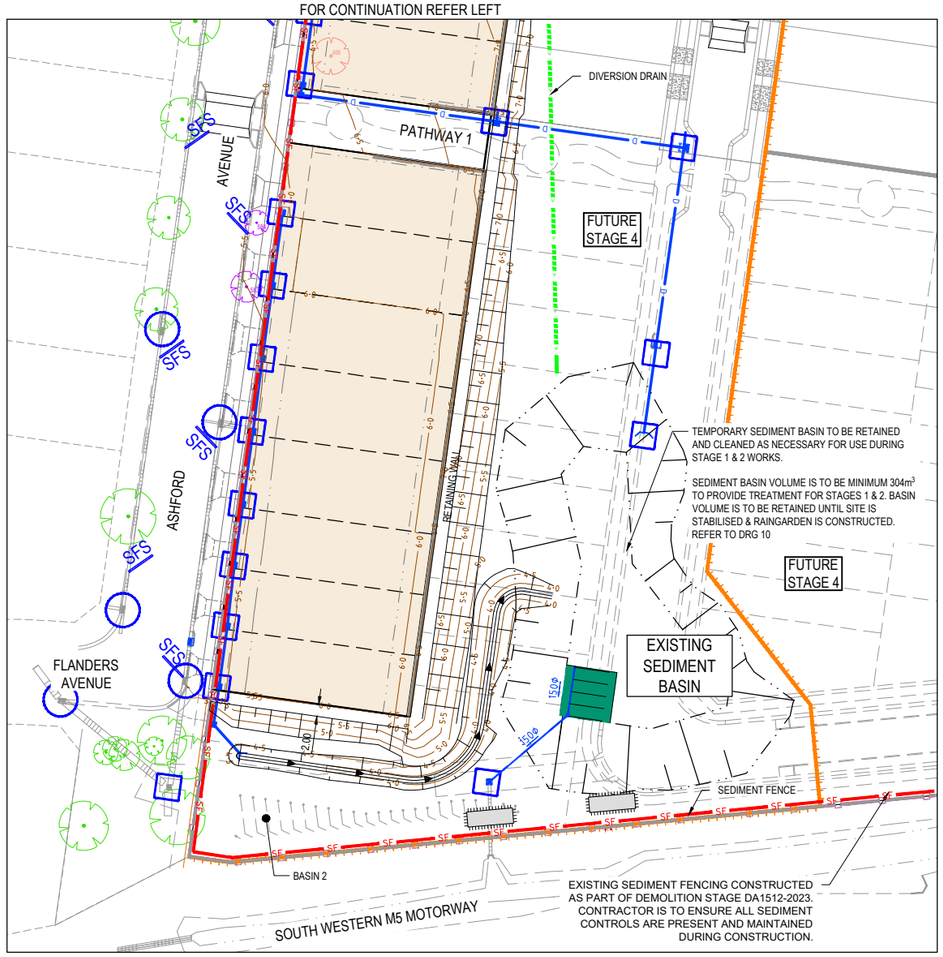
Sheet 150 of 162
Scale 1:2000 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 800 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-800-SWM.dwg




FOR CONTINUATION REFER TOP RIGHT




## LEGEND

- EXISTING SURFACE CONTOURS
- PROPOSED DRAINAGE PIPE AND PIT
- GRAVEL KERB INLET SEDIMENT TRAP
- GEOTEXTILE FILTER AROUND GRATED SURFACE INLET PITS
- STABILISED ACCESS POINT
- NEW 1.8m HIGH TEMPORARY MANPROOF FENCE W/ SHADE CLOTH
- HI-VIS MESH FENCING TO LIMIT CONTRACTORS ACTIVITIES TO THE STAGE 2 LIMITS
- SFS — SAND OR AGGREGATE FILLED HESSIAN FILTER LAIDACROSS ROAD PAVEMENT TO TRAP LOCALISED SILT MATERIAL
- SF — SEDIMENT FENCING
- STRAW BALE
- DIVERSION DRAIN
- TEMPORARY SEDIMENT BASIN
- SITE COMPOUND
- INDICATIVE STOCKPILE LOCATION

NOTE: ALL SOIL AND WATER MANAGEMENT DETAILS ARE NOTED ON SOIL AND WATER MANAGEMENT NOTES. SEDIMENT & MANPROOF FENCES ARE TO BE LOCATED WHOLLY WITHIN BOUNDARIES & HAVE BEEN SHOWN DIAGRAMMATICALLY. PROVIDE CONSTRUCTION SIGN & AMENITIES IN ACCORDANCE WITH CONDITIONS OF THE DA.

NOTE: MEASURES PROPOSED IN THE PLAN ARE FOR GUIDANCE AND SUBJECT TO MODIFICATION TO SUIT CONTRACTORS METHODOLOGY & APPROVAL OF THE PRINCIPLE CERTIFYING AUTHORITY.

## CONSTRUCTION SEQUENCE

FOLLOWING REMEDIATION OF THE AREA:

1. PLACE ALL SEDIMENT CONTROLS INCLUDING BASINS & OVERLAND FLOW PATHS FOR PCA APPROVAL BEFORE STARTING ANY WORKS ON SITE.
2. ALL TOPSOIL CONTAINING VEGETATION TO BE STRIPPED FROM EXISTING SURFACE & STOCKPILED FOR REMOVAL OFF-SITE (APPROX. 75mm THICK).
3. ALL TOPSOIL NOT CONTAINING VEGETATION TO BE STRIPPED FROM THE SITE & STOCKPILED FOR AMELIORATION FOR USE ELSEWHERE IN THE SITE OR BLENDING WITH CLAY / FILL TO BE USED AS FILL MATERIAL ON SITE.
4. PLACE REMEDIATION MATERIAL AT DEPTH IN ACCORDANCE WITH GEOTECHNICAL & ENVIRONMENTAL / SITE AUDITOR DIRECTION. MATERIAL TO BE BLENDED WITH FILL MATERIAL TO ACHIEVE COMPACTION REQUIREMENTS. ALL FILL TO BE PLACED UNDER LEVEL 1 GEOTECHNICAL SUPERVISION.
5. STRIPPED SURFACE TO BE INSPECTED & CERTIFIED READY FOR FILL PLACEMENT BY GEOTECHNICAL ENGINEER.
6. COMPLETE INITIAL EARTHWORKS IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S REPORT
7. IMPORTED FILL TO BE CERTIFIED AS V.E.N.M. & FREE OF SLAG, HAZARDOUS, CONTAMINATED, TOXIC, PUTRESCIBLE OR RADIO-ACTIVE MATTER & INDUSTRIAL WASTE & BUILDING DEBRIS. THE ORIGIN OF FILL PROPOSED TO BE IMPORTED & THE ABOVE CERTIFICATION TO BE REVIEWED & APPROVED BY COUNCIL PRIOR TO ANY IMPORTED FILL ARRIVING ON SITE.
8. ALL FILL IS TO BE PLACED & COMPACTED IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATION.
9. ALL FILL TO BE PLACED UNDER LEVEL 1 GEOTECHNICAL SUPERVISION.
10. COPIES OF ALL FILL COMPACTION TESTS TO BE PROVIDED TO PRINCIPLE.
11. INSTALL ALL PIT & KERB INLET FILTERS / SEDIMENT TRAPS.
12. 300mm WIDE, 50mm THICK TOPSOIL TO BE PLACED BEHIND KERBS & TURFED WITH KIKUYU TURF WITH ADDITIONAL SEDIMENT FENCING FOR BUILDING SITES
13. FINAL TOPSOIL/ TURF & PATHWAYS WITHIN ROAD VERGES TO BE BONDED WITH COUNCIL & COMPLETED BY BUILDERS FOLLOWING HOUSE CONSTRUCTION

## SEDIMENT BASIN

1. THE CONTRACTOR IS TO ENSURE STORMWATER RUNOFF IS DIRECTED TO THE SEDIMENT BASIN WITH PLACEMENT OF TEMPORARY DIVERSION MOUNDS OR THE FORMATION OF OVERLAND FLOW PATHS.
2. DIVERSION MOUNDS & FLOW PATHS ARE TO BE ADJUSTED AS FILLING LAYERS PROGRESS & SURFACE LEVELS RISE.
3. SEDIMENT IS TO BE REMOVED SUCH THAT NOT LESS THAN 70% OF THE DESIGN CAPACITY IS AVAILABLE AT ALL TIMES MARKERS WITH DEPTH INDICATORS ARE TO BE PLACED IN EACH BASIN TO INDICATE WHEN SEDIMENT ACCUMULATION EXCEEDS 30% OF STORAGE REQUIREMENTS.
4. BASINS ARE TO BE FLOCCULATED WITH GYPSUM WHEN SUSPENDED SOLID CONCENTRATION EXCEEDS 50 *milligrams per litre.* SPREADING RATE TO BE DETERMINED AFTER TESTING AND ANALYSIS OF THE INITIAL STORM EVENT. FIRST APPLICATION IS TO BE *30 kilograms GYPSUM PER 100 cum.* OF STORED WATER & THEREAFTER AS DETERMINED BY TESTING. PUMP OUT CLEAN WATER TO LARGE GRASSED / VEGETATED AREA WITHIN 72 hrs OF TREATMENT. REFER LANDCOM SOIL & CONSTRUCTION - "MANAGING URBAN STORMWATER" MANUAL - APPENDIX E
5. UPON ADEQUATE SITE REVEGETATION & COUNCIL APPROVAL SEDIMENT BASIN IS TO BE DECOMMISSIONED & CONVERTED INTO RAINGARDENS PER DESIGN.

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

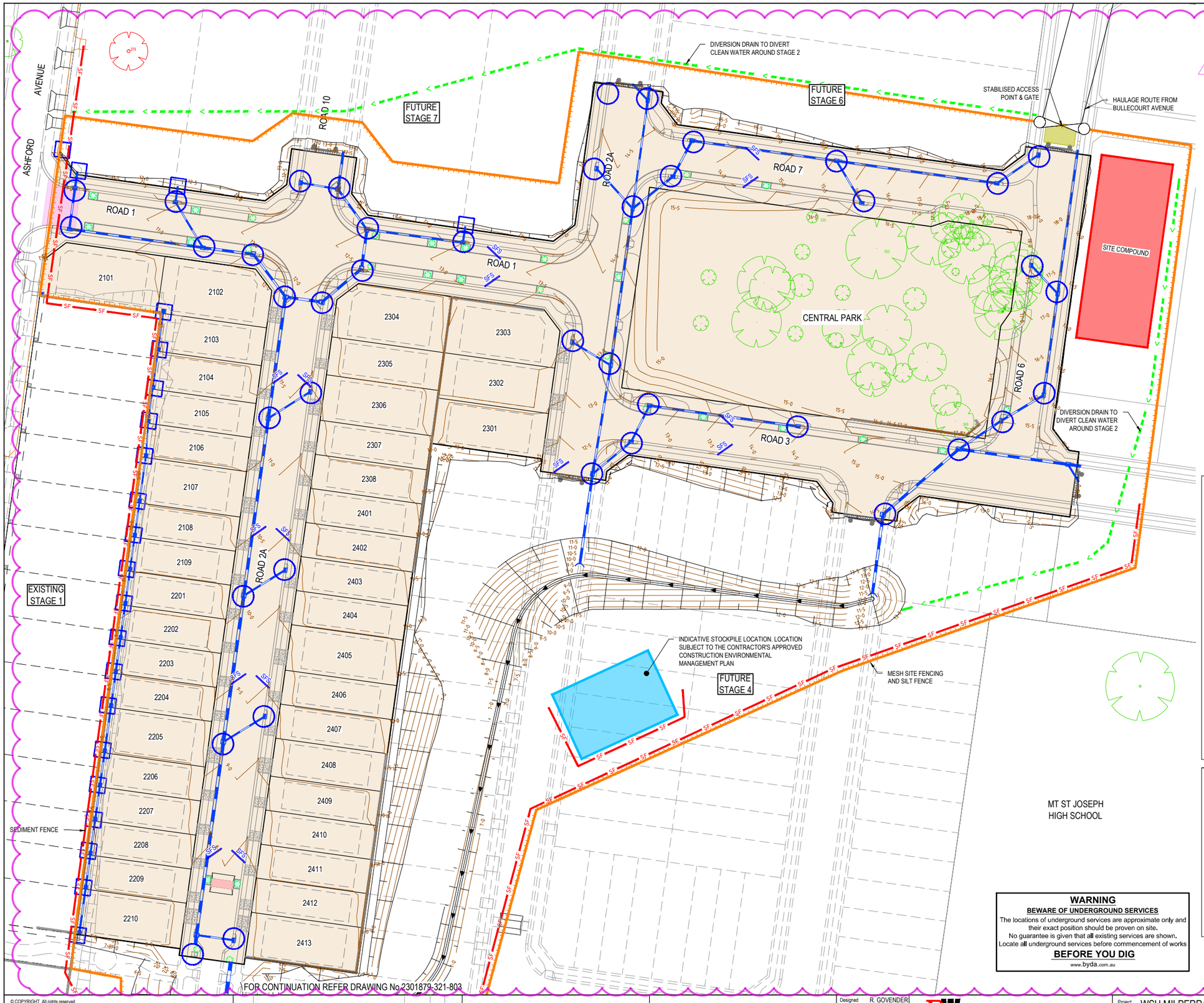
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: SOIL & WATER MANAGEMENT PLAN STAGE 1

Sheet 151 of 162
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 801 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-801-SWM.dwg




## LEGEND

- EXISTING SURFACE CONTOURS
- PROPOSED DRAINAGE PIPE AND PIT
- GRAVEL KERB INLET SEDIMENT TRAP
- GEOTEXTILE FILTER AROUND GRATED SURFACE INLET PITS
- STABILISED ACCESS POINT
- NEW 1.8m HIGH TEMPORARY MANPROOF FENCE W/ SHADE CLOTH
- HI-VIS MESH FENCING TO LIMIT CONTRACTORS ACTIVITIES TO THE STAGE 2 LIMITS
- SAND OR AGGREGATE FILLED HESSIAN FILTER LAIDACROSS ROAD PAVEMENT TO TRAP LOCALISED SILT MATERIAL
- SEDIMENT FENCING
- STRAW BALE
- DIVERSION DRAIN
- TEMPORARY SEDIMENT BASIN
- SITE COMPOUND
- INDICATIVE STOCKPILE LOCATION
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

NOTE: ALL SOIL AND WATER MANAGEMENT DETAILS ARE NOTED ON SOIL AND WATER MANAGEMENT NOTES. SEDIMENT & MANPROOF FENCES ARE TO BE LOCATED WHOLLY WITHIN BOUNDARIES & HAVE BEEN SHOWN DIAGRAMMATICALLY. PROVIDE CONSTRUCTION SIGN & AMENITIES IN ACCORDANCE WITH CONDITIONS OF THE DA.

NOTE: MEASURES PROPOSED IN THE PLAN ARE FOR GUIDANCE AND SUBJECT TO MODIFICATION TO SUIT CONTRACTORS METHODOLOGY & APPROVAL OF THE PRINCIPLE CERTIFYING AUTHORITY.

## CONSTRUCTION SEQUENCE

FOLLOWING REMEDIATION OF THE AREA:

1. PLACE ALL SEDIMENT CONTROLS INCLUDING BASINS & OVERLAND FLOW PATHS FOR PCA APPROVAL BEFORE STARTING ANY WORKS ON SITE.
2. ALL TOPSOIL CONTAINING VEGETATION TO BE STRIPPED FROM EXISTING SURFACE & STOCKPILED FOR REMOVAL OFF-SITE (APPROX. 75mm THICK).
3. ALL TOPSOIL NOT CONTAINING VEGETATION TO BE STRIPPED FROM THE SITE & STOCKPILED FOR AMELIORATION FOR USE ELSEWHERE IN THE SITE OR BLENDING WITH CLAY / FILL TO BE USED AS FILL MATERIAL ON SITE.
4. PLACE REMEDIATION MATERIAL AT DEPTH IN ACCORDANCE WITH GEOTECHNICAL & ENVIRONMENTAL / SITE AUDITOR DIRECTION. MATERIAL TO BE BLENDED WITH FILL MATERIAL TO ACHIEVE COMPACTION REQUIREMENTS. ALL FILL TO BE PLACED UNDER LEVEL 1 GEOTECHNICAL SUPERVISION.
5. STRIPPED SURFACE TO BE INSPECTED & CERTIFIED READY FOR FILL PLACEMENT BY GEOTECHNICAL ENGINEER.
6. COMPLETE INITIAL EARTHWORKS IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S REPORT
7. IMPORTED FILL TO BE CERTIFIED AS V.E.N.M. & FREE OF SLAG, HAZARDOUS, CONTAMINATED, TOXIC, PUTRESCIBLE OR RADIO-ACTIVE MATTER & INDUSTRIAL WASTE & BUILDING DEBRIS. THE ORIGIN OF FILL PROPOSED TO BE IMPORTED & THE ABOVE CERTIFICATION TO BE REVIEWED & APPROVED BY COUNCIL PRIOR TO ANY IMPORTED FILL ARRIVING ON SITE.
8. ALL FILL IS TO BE PLACED & COMPACTED IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATION.
9. ALL FILL TO BE PLACED UNDER LEVEL 1 GEOTECHNICAL SUPERVISION.
10. COPIES OF ALL FILL COMPACTION TESTS TO BE PROVIDED TO PRINCIPLE.
11. INSTALL ALL PIT & KERB INLET FILTERS / SEDIMENT TRAPS.
12. 300mm WIDE, 50mm THICK TOPSOIL TO BE PLACED BEHIND KERBS & TURFED WITH KIKUYU TURF WITH ADDITIONAL SEDIMENT FENCING FOR BUILDING SITES
13. FINAL TOPSOIL/ TURF & PATHWAYS WITHIN ROAD VERGES TO BE BONDED WITH COUNCIL & COMPLETED BY BUILDERS FOLLOWING HOUSE CONSTRUCTION

## SEDIMENT BASIN

1. THE CONTRACTOR IS TO ENSURE STORMWATER RUNOFF IS DIRECTED TO THE SEDIMENT BASIN WITH PLACEMENT OF TEMPORARY DIVERSION MOUNDS OR THE FORMATION OF OVERLAND FLOW PATHS.
2. DIVERSION MOUNDS & FLOW PATHS ARE TO BE ADJUSTED AS FILLING LAYERS PROGRESS & SURFACE LEVELS RISE.
3. SEDIMENT IS TO BE REMOVED SUCH THAT NOT LESS THAN 70% OF THE DESIGN CAPACITY IS AVAILABLE AT ALL TIMES MARKERS WITH DEPTH INDICATORS ARE TO BE PLACED IN EACH BASIN TO INDICATE WHEN SEDIMENT ACCUMULATION EXCEEDS 30% OF STORAGE REQUIREMENTS.
4. BASINS ARE TO BE FLOCCULATED WITH GYPSUM WHEN SUSPENDED SOLID CONCENTRATION EXCEEDS 50 *milligrams per litre.* SPREADING RATE TO BE DETERMINED AFTER TESTING AND ANALYSIS OF THE INITIAL STORM EVENT. FIRST APPLICATION IS TO BE *30 kilograms GYPSUM PER 100 cum.* OF STORED WATER & THEREAFTER AS DETERMINED BY TESTING. PUMP OUT CLEAN WATER TO LARGE GRASSED / VEGETATED AREA WITHIN 72 hrs OF TREATMENT. REFER LANDCOM SOIL & CONSTRUCTION - "MANAGING URBAN STORMWATER" MANUAL - APPENDIX E
5. UPON ADEQUATE SITE REVEGETATION & COUNCIL APPROVAL SEDIMENT BASIN IS TO BE DECOMMISSIONED & CONVERTED INTO RAINGARDENS PER DESIGN.

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: SOIL & WATER MANAGEMENT PLAN STAGE 2 SHEET 1 OF 2

Sheet 152 of 162

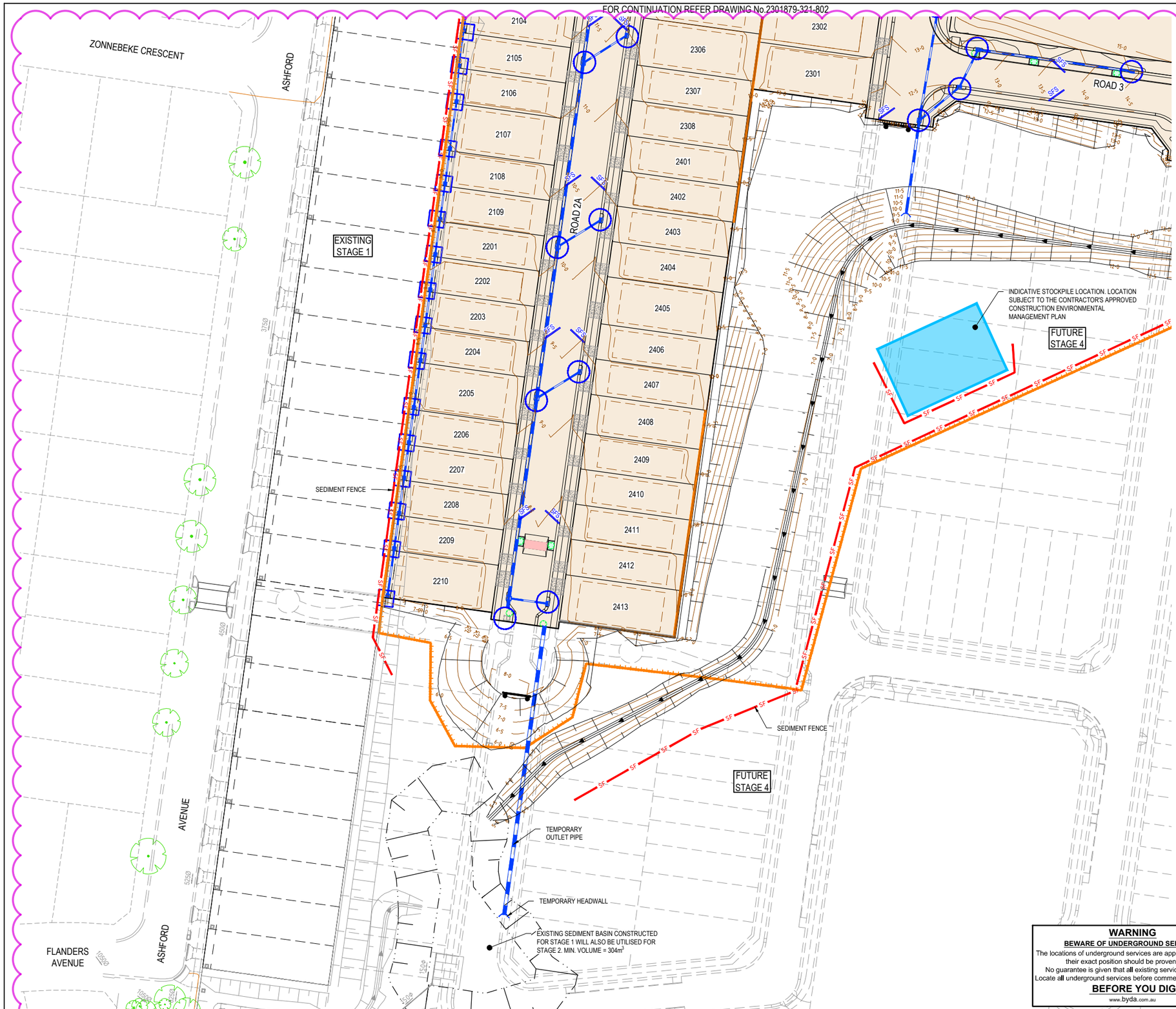
Scale: 1:500 @ A1

N

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 802 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-802-SWM.dwg

FOR CONTINUATION REFER DRAWING No.2301879-321-802




## LEGEND

- EXISTING SURFACE CONTOURS
- PROPOSED DRAINAGE PIPE AND PIT
- GRAVEL KERB INLET SEDIMENT TRAP
- GEOTEXTILE FILTER AROUND GRATED SURFACE INLET PITS
- STABILISED ACCESS POINT
- NEW 1.8m HIGH TEMPORARY MANPROOF FENCE W/ SHADE CLOTH
- HI-VIS MESH FENCING TO LIMIT CONTRACTORS ACTIVITIES TO THE STAGE 1 LIMITS
- SAND OR AGGREGATE FILLED HESSIAN FILTER LAIDACROSS ROAD PAVEMENT TO TRAP LOCALISED SILT MATERIAL
- SEDIMENT FENCING
- STRAW BALE
- DIVERSION DRAIN
- TEMPORARY SEDIMENT BASIN
- SITE COMPOUND
- INDICATIVE STOCKPILE LOCATION

NOTE: ALL SOIL AND WATER MANAGEMENT DETAILS ARE NOTED ON SOIL AND WATER MANAGEMENT NOTES. SEDIMENT & MANPROOF FENCES ARE TO BE LOCATED WHOLLY WITHIN BOUNDARIES & HAVE BEEN SHOWN DIAGRAMMATICALLY. PROVIDE CONSTRUCTION SIGN & AMENITIES IN ACCORDANCE WITH CONDITIONS OF THE DA.

NOTE: MEASURES PROPOSED IN THE PLAN ARE FOR GUIDANCE AND SUBJECT TO MODIFICATION TO SUIT CONTRACTORS METHODOLOGY & APPROVAL OF THE PRINCIPLE CERTIFYING AUTHORITY.

## CONSTRUCTION SEQUENCE

FOLLOWING REMEDIATION OF THE AREA:

1. PLACE ALL SEDIMENT CONTROLS INCLUDING BASINS & OVERLAND FLOW PATHS FOR PCA APPROVAL BEFORE STARTING ANY WORKS ON SITE.
2. ALL TOPSOIL CONTAINING VEGETATION TO BE STRIPPED FROM EXISTING SURFACE & STOCKPILED FOR REMOVAL OFF-SITE (APPROX. 75mm THICK).
3. ALL TOPSOIL NOT CONTAINING VEGETATION TO BE STRIPPED FROM THE SITE & STOCKPILED FOR AMELIORATION FOR USE ELSEWHERE IN THE SITE OR BLENDING WITH CLAY / FILL TO BE USED AS FILL MATERIAL ON SITE.
4. PLACE REMEDIATION MATERIAL AT DEPTH IN ACCORDANCE WITH GEOTECHNICAL & ENVIRONMENTAL / SITE AUDITOR DIRECTION. MATERIAL TO BE BLENDED WITH FILL MATERIAL TO ACHIEVE COMPACTION REQUIREMENTS. ALL FILL TO BE PLACED UNDER LEVEL 1 GEOTECHNICAL SUPERVISION.
5. STRIPPED SURFACE TO BE INSPECTED & CERTIFIED READY FOR FILL PLACEMENT BY GEOTECHNICAL ENGINEER.
6. COMPLETE INITIAL EARTHWORKS IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S REPORT
7. IMPORTED FILL TO BE CERTIFIED AS V.E.N.M. & FREE OF SLAG, HAZARDOUS, CONTAMINATED, TOXIC, PUTRESCIBLE OR RADIO-ACTIVE MATTER & INDUSTRIAL WASTE & BUILDING DEBRIS. THE ORIGIN OF FILL PROPOSED TO BE IMPORTED & THE ABOVE CERTIFICATION TO BE REVIEWED & APPROVED BY COUNCIL PRIOR TO ANY IMPORTED FILL ARRIVING ON SITE.
8. ALL FILL IS TO BE PLACED & COMPACTED IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATION.
9. ALL FILL TO BE PLACED UNDER LEVEL 1 GEOTECHNICAL SUPERVISION.
10. COPIES OF ALL FILL COMPACTION TESTS TO BE PROVIDED TO PRINCIPLE.
11. INSTALL ALL PIT & KERB INLET FILTERS / SEDIMENT TRAPS.
12. 300mm WIDE, 50mm THICK TOPSOIL TO BE PLACED BEHIND KERBS & TURFED WITH KIKUYU TURF WITH ADDITIONAL SEDIMENT FENCING FOR BUILDING SITES
13. FINAL TOPSOIL/ TURF & PATHWAYS WITHIN ROAD VERGES TO BE BONDED WITH COUNCIL & COMPLETED BY BUILDERS FOLLOWING HOUSE CONSTRUCTION

## SEDIMENT BASIN

1. THE CONTRACTOR IS TO ENSURE STORMWATER RUNOFF IS DIRECTED TO THE SEDIMENT BASIN WITH PLACEMENT OF TEMPORARY DIVERSION MOUNDS OR THE FORMATION OF OVERLAND FLOW PATHS.
2. DIVERSION MOUNDS & FLOW PATHS ARE TO BE ADJUSTED AS FILLING LAYERS PROGRESS & SURFACE LEVELS RISE.
3. SEDIMENT IS TO BE REMOVED SUCH THAT NOT LESS THAN 70% OF THE DESIGN CAPACITY IS AVAILABLE AT ALL TIMES MARKERS WITH DEPTH INDICATORS ARE TO BE PLACED IN EACH BASIN TO INDICATE WHEN SEDIMENT ACCUMULATION EXCEEDS 30% OF STORAGE REQUIREMENTS.
4. BASINS ARE TO BE FLOCCULATED WITH GYPSUM WHEN SUSPENDED SOLID CONCENTRATION EXCEEDS 50 *milligrams per litre*. SPREADING RATE TO BE DETERMINED AFTER TESTING AND ANALYSIS OF THE INITIAL STORM EVENT. FIRST APPLICATION IS TO BE *30 kilograms GYPSUM PER 100 cum.* OF STORED WATER & THEREAFTER AS DETERMINED BY TESTING. PUMP OUT CLEAN WATER TO LARGE GRASSED / VEGETATED AREA WITHIN 72 hrs OF TREATMENT. REFER LANDCOM SOIL & CONSTRUCTION - "MANAGING URBAN STORMWATER" MANUAL - APPENDIX E
5. UPON ADEQUATE SITE REVEGETATION & COUNCIL APPROVAL SEDIMENT BASIN IS TO BE DECOMMISSIONED & CONVERTED INTO RAINGARDENS PER DESIGN.

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

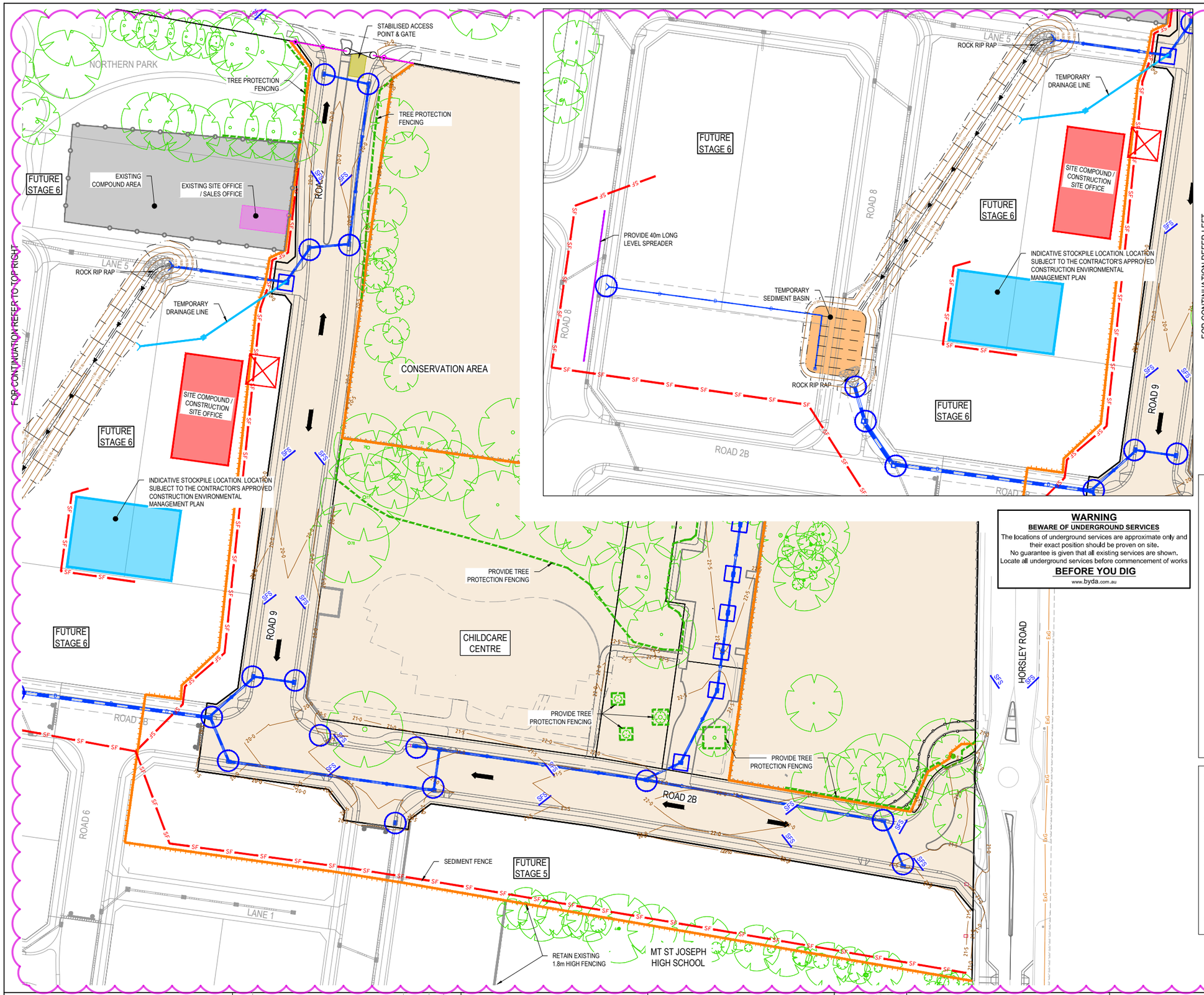
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: SOIL & WATER MANAGEMENT PLAN
STAGE 2
SHEET 2 OF 2

Sheet 153 of 162
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 803 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-802-SWM.dwg




## LEGEND

- EXISTING SURFACE CONTOURS
- PROPOSED DRAINAGE PIPE AND PIT
- TEMPORARY DRAINAGE PIPE AND PIT
- GRAVEL KERB INLET SEDIMENT TRAP
- GEOTEXTILE FILTER AROUND GRATED SURFACE INLET PITS
- STABILISED ACCESS POINT
- NEW 1.8m HIGH TEMPORARY MANPROOF FENCE W/ SHADE CLOTH
- HI-VIS MESH FENCING TO LIMIT CONTRACTORS ACTIVITIES TO THE STAGE 2 LIMITS
- SAND OR AGGREGATE FILLED HESSIAN FILTER LAIDACROSS ROAD PAVEMENT TO TRAP LOCALISED SILT MATERIAL
- SEDIMENT FENCING
- STRAW BALE
- DIVERSION DRAIN
- TEMPORARY SEDIMENT BASIN
- SITE COMPOUND
- INDICATIVE STOCKPILE LOCATION
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

NOTE: ALL SOIL AND WATER MANAGEMENT DETAILS ARE NOTED ON SOIL AND WATER MANAGEMENT NOTES. SEDIMENT & MANPROOF FENCES ARE TO BE LOCATED WHOLLY WITHIN BOUNDARIES & HAVE BEEN SHOWN DIAGRAMMATICALLY. PROVIDE CONSTRUCTION SIGN & AMENITIES IN ACCORDANCE WITH CONDITIONS OF THE DA.

NOTE: MEASURES PROPOSED IN THE PLAN ARE FOR GUIDANCE AND SUBJECT TO MODIFICATION TO SUIT CONTRACTORS METHODOLOGY & APPROVAL OF THE PRINCIPLE CERTIFYING AUTHORITY.

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

## CONSTRUCTION SEQUENCE

FOLLOWING REMEDIATION OF THE AREA:

1. PLACE ALL SEDIMENT CONTROLS INCLUDING BASINS & OVERLAND FLOW PATHS FOR PCA APPROVAL BEFORE STARTING ANY WORKS ON SITE.
2. ALL TOPSOIL CONTAINING VEGETATION TO BE STRIPPED FROM EXISTING SURFACE & STOCKPILED FOR REMOVAL OFF-SITE (APPROX. 75mm THICK).
3. ALL TOPSOIL NOT CONTAINING VEGETATION TO BE STRIPPED FROM THE SITE & STOCKPILED FOR AMELIORATION FOR USE ELSEWHERE IN THE SITE OR BLENDING WITH CLAY / FILL TO BE USED AS FILL MATERIAL ON SITE.
4. PLACE REMEDIATION MATERIAL AT DEPTH IN ACCORDANCE WITH GEOTECHNICAL & ENVIRONMENTAL / SITE AUDITOR DIRECTION. MATERIAL TO BE BLENDED WITH FILL MATERIAL TO ACHIEVE COMPACTION REQUIREMENTS. ALL FILL TO BE PLACED UNDER LEVEL 1 GEOTECHNICAL SUPERVISION.
5. STRIPPED SURFACE TO BE INSPECTED & CERTIFIED READY FOR FILL PLACEMENT BY GEOTECHNICAL ENGINEER.
6. COMPLETE INITIAL EARTHWORKS IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S REPORT
7. IMPORTED FILL TO BE CERTIFIED AS V.E.N.M. & FREE OF SLAG, HAZARDOUS, CONTAMINATED, TOXIC, PUTRESCIBLE OR RADIO-ACTIVE MATTER & INDUSTRIAL WASTE & BUILDING DEBRIS. THE ORIGIN OF FILL PROPOSED TO BE IMPORTED & THE ABOVE CERTIFICATION TO BE REVIEWED & APPROVED BY COUNCIL PRIOR TO ANY IMPORTED FILL ARRIVING ON SITE.
8. ALL FILL IS TO BE PLACED & COMPACTED IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATION.
9. ALL FILL TO BE PLACED UNDER LEVEL 1 GEOTECHNICAL SUPERVISION.
10. COPIES OF ALL FILL COMPACTION TESTS TO BE PROVIDED TO PRINCIPLE.
11. INSTALL ALL PIT & KERB INLET FILTERS / SEDIMENT TRAPS.
12. 300mm WIDE, 50mm THICK TOPSOIL TO BE PLACED BEHIND KERBS & TURFED WITH KIKUYU TURF WITH ADDITIONAL SEDIMENT FENCING FOR BUILDING SITES
13. FINAL TOPSOIL/ TURF & PATHWAYS WITHIN ROAD VERGES TO BE BONDED WITH COUNCIL & COMPLETED BY BUILDERS FOLLOWING HOUSE CONSTRUCTION

## SEDIMENT BASIN

1. THE CONTRACTOR IS TO ENSURE STORMWATER RUNOFF IS DIRECTED TO THE SEDIMENT BASIN WITH PLACEMENT OF TEMPORARY DIVERSION MOUNDS OR THE FORMATION OF OVERLAND FLOW PATHS.
2. DIVERSION MOUNDS & FLOW PATHS ARE TO BE ADJUSTED AS FILLING LAYERS PROGRESS & SURFACE LEVELS RISE.
3. SEDIMENT IS TO BE REMOVED SUCH THAT NOT LESS THAN 70% OF THE DESIGN CAPACITY IS AVAILABLE AT ALL TIMES MARKERS WITH DEPTH INDICATORS ARE TO BE PLACED IN EACH BASIN TO INDICATE WHEN SEDIMENT ACCUMULATION EXCEEDS 30% OF STORAGE REQUIREMENTS.
4. BASINS ARE TO BE FLOCCULATED WITH GYPSUM WHEN SUSPENDED SOLID CONCENTRATION EXCEEDS *50 milligrams per litre*. SPREADING RATE TO BE DETERMINED AFTER TESTING AND ANALYSIS OF THE INITIAL STORM EVENT. FIRST APPLICATION IS TO BE *30 kilograms GYPSUM PER 100 cum.* OF STORED WATER & THEREAFTER AS DETERMINED BY TESTING. PUMP OUT CLEAN WATER TO LARGE GRASSED / VEGETATED AREA WITHIN 72 hrs OF TREATMENT. REFER LANDCOM SOIL & CONSTRUCTION - "MANAGING URBAN STORMWATER" MANUAL - APPENDIX E
5. UPON ADEQUATE SITE REVEGETATION & COUNCIL APPROVAL SEDIMENT BASIN IS TO BE DECOMMISSIONED & CONVERTED INTO RAINGARDENS PER DESIGN.

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: SOIL & WATER MANAGEMENT PLAN
STAGE 3

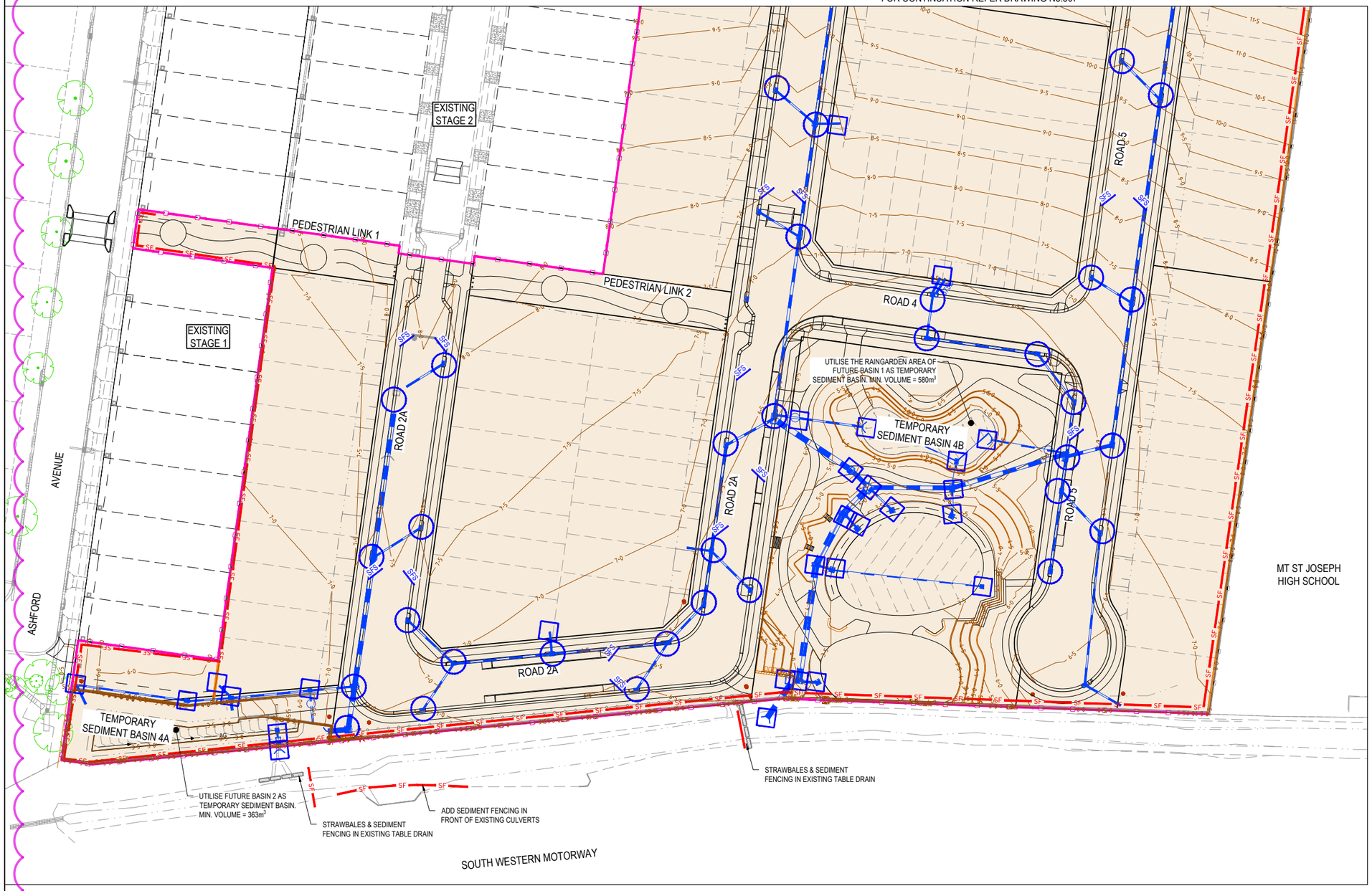
Sheet 154 of 162

Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 804 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-803-SWM.dwg

FOR CONTINUATION REFER DRAWING No.807




C

## LEGEND

- EXISTING SURFACE CONTOURS
- PROPOSED DRAINAGE PIPE AND PIT
- TEMPORARY DRAINAGE PIPE AND PIT
- GRAVEL KERB INLET SEDIMENT TRAP
- GEOTEXTILE FILTER AROUND GRATED SURFACE INLET PITS
- STABILISED ACCESS POINT
- NEW 1.8m HIGH TEMPORARY MANPROOF FENCE W/ SHADE CLOTH
- HI-VIS MESH FENCING TO LIMIT CONTRACTORS ACTIVITIES TO THE STAGE 4 LIMITS
- LEVEL SPREADER
- SFS — SAND OR AGGREGATE FILLED HESSIAN FILTER LAIDACROSS ROAD PAVEMENT TO TRAP LOCALISED SILT MATERIAL
- SF — SEDIMENT FENCING
- STRAW BALE
- TREE PROTECTION FENCING
- TEMPORARY SEDIMENT BASIN
- SITE COMPOUND
- INDICATIVE STOCKPILE LOCATION
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

NOTE: ALL SOIL AND WATER MANAGEMENT DETAILS ARE NOTED ON SOIL AND WATER MANAGEMENT NOTES. SEDIMENT & MANPROOF FENCES ARE TO BE LOCATED WHOLLY WITHIN BOUNDARIES & HAVE BEEN SHOWN DIAGRAMMATICALLY. PROVIDE CONSTRUCTION SIGN & AMENITIES IN ACCORDANCE WITH CONDITIONS OF THE DA.

NOTE: MEASURES PROPOSED IN THE PLAN ARE FOR GUIDANCE AND SUBJECT TO MODIFICATION TO SUIT CONTRACTORS METHODOLOGY & APPROVAL OF THE PRINCIPLE CERTIFYING AUTHORITY.

## CONSTRUCTION SEQUENCE

FOLLOWING REMEDIATION OF THE AREA:

1. PLACE ALL SEDIMENT CONTROLS INCLUDING BASINS & OVERLAND FLOW PATHS FOR PCA APPROVAL BEFORE STARTING ANY WORKS ON SITE.
2. ALL TOPSOIL CONTAINING VEGETATION TO BE STRIPPED FROM EXISTING SURFACE & STOCKPILED FOR REMOVAL OFF-SITE (APPROX. 75mm THICK).
3. ALL TOPSOIL NOT CONTAINING VEGETATION TO BE STRIPPED FROM THE SITE & STOCKPILED FOR AMELIORATION FOR USE ELSEWHERE IN THE SITE OR BLENDING WITH CLAY / FILL TO BE USED AS FILL MATERIAL ON SITE.
4. PLACE REMEDIATION MATERIAL AT DEPTH IN ACCORDANCE WITH GEOTECHNICAL & ENVIRONMENTAL / SITE AUDITOR DIRECTION. MATERIAL TO BE BLENDED WITH FILL MATERIAL TO ACHIEVE COMPACTION REQUIREMENTS. ALL FILL TO BE PLACED UNDER LEVEL 1 GEOTECHNICAL SUPERVISION.
5. STRIPPED SURFACE TO BE INSPECTED & CERTIFIED READY FOR FILL PLACEMENT BY GEOTECHNICAL ENGINEER.
6. COMPLETE INITIAL EARTHWORKS IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S REPORT
7. IMPORTED FILL TO BE CERTIFIED AS V.E.N.M. & FREE OF SLAG, HAZARDOUS, CONTAMINATED, TOXIC, PUTRESCIBLE OR RADIO-ACTIVE MATTER & INDUSTRIAL WASTE & BUILDING DEBRIS. THE ORIGIN OF FILL PROPOSED TO BE IMPORTED & THE ABOVE CERTIFICATION TO BE REVIEWED & APPROVED BY COUNCIL PRIOR TO ANY IMPORTED FILL ARRIVING ON SITE.
8. ALL FILL IS TO BE PLACED & COMPACTED IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATION.
9. ALL FILL TO BE PLACED UNDER LEVEL 1 GEOTECHNICAL SUPERVISION.
10. COPIES OF ALL FILL COMPACTION TESTS TO BE PROVIDED TO PRINCIPLE.
11. INSTALL ALL PIT & KERB INLET FILTERS / SEDIMENT TRAPS.
12. 300mm WIDE, 50mm THICK TOPSOIL TO BE PLACED BEHIND KERBS & TURFED WITH KIKUYU TURF WITH ADDITIONAL SEDIMENT FENCING FOR BUILDING SITES
13. FINAL TOPSOIL/ TURF & PATHWAYS WITHIN ROAD VERGES TO BE BONDED WITH COUNCIL & COMPLETED BY BUILDERS FOLLOWING HOUSE CONSTRUCTION

## SEDIMENT BASIN

1. THE CONTRACTOR IS TO ENSURE STORMWATER RUNOFF IS DIRECTED TO THE SEDIMENT BASIN WITH PLACEMENT OF TEMPORARY DIVERSION MOUNDS OR THE FORMATION OF OVERLAND FLOW PATHS.
2. DIVERSION MOUNDS & FLOW PATHS ARE TO BE ADJUSTED AS FILLING LAYERS PROGRESS & SURFACE LEVELS RISE.
3. SEDIMENT IS TO BE REMOVED SUCH THAT NOT LESS THAN 70% OF THE DESIGN CAPACITY IS AVAILABLE AT ALL TIMES MARKERS WITH DEPTH INDICATORS ARE TO BE PLACED IN EACH BASIN TO INDICATE WHEN SEDIMENT ACCUMULATION EXCEEDS 30% OF STORAGE REQUIREMENTS.
4. BASINS ARE TO BE FLOCCULATED WITH GYPSUM WHEN SUSPENDED SOLID CONCENTRATION EXCEEDS *50 milligrams per litre*. SPREADING RATE TO BE DETERMINED AFTER TESTING AND ANALYSIS OF THE INITIAL STORM EVENT. FIRST APPLICATION IS TO BE *30 kilograms GYPSUM PER 100 cum*. OF STORED WATER & THEREAFTER AS DETERMINED BY TESTING. PUMP OUT CLEAN WATER TO LARGE GRASSED / VEGETATED AREA WITHIN 72 hrs OF TREATMENT. REFER LANDCOM SOIL & CONSTRUCTION - "MANAGING URBAN STORMWATER" MANUAL - APPENDIX E
5. UPON ADEQUATE SITE REVEGETATION & COUNCIL APPROVAL SEDIMENT BASIN IS TO BE DECOMMISSIONED & CONVERTED INTO RAINGARDENS PER DESIGN.

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

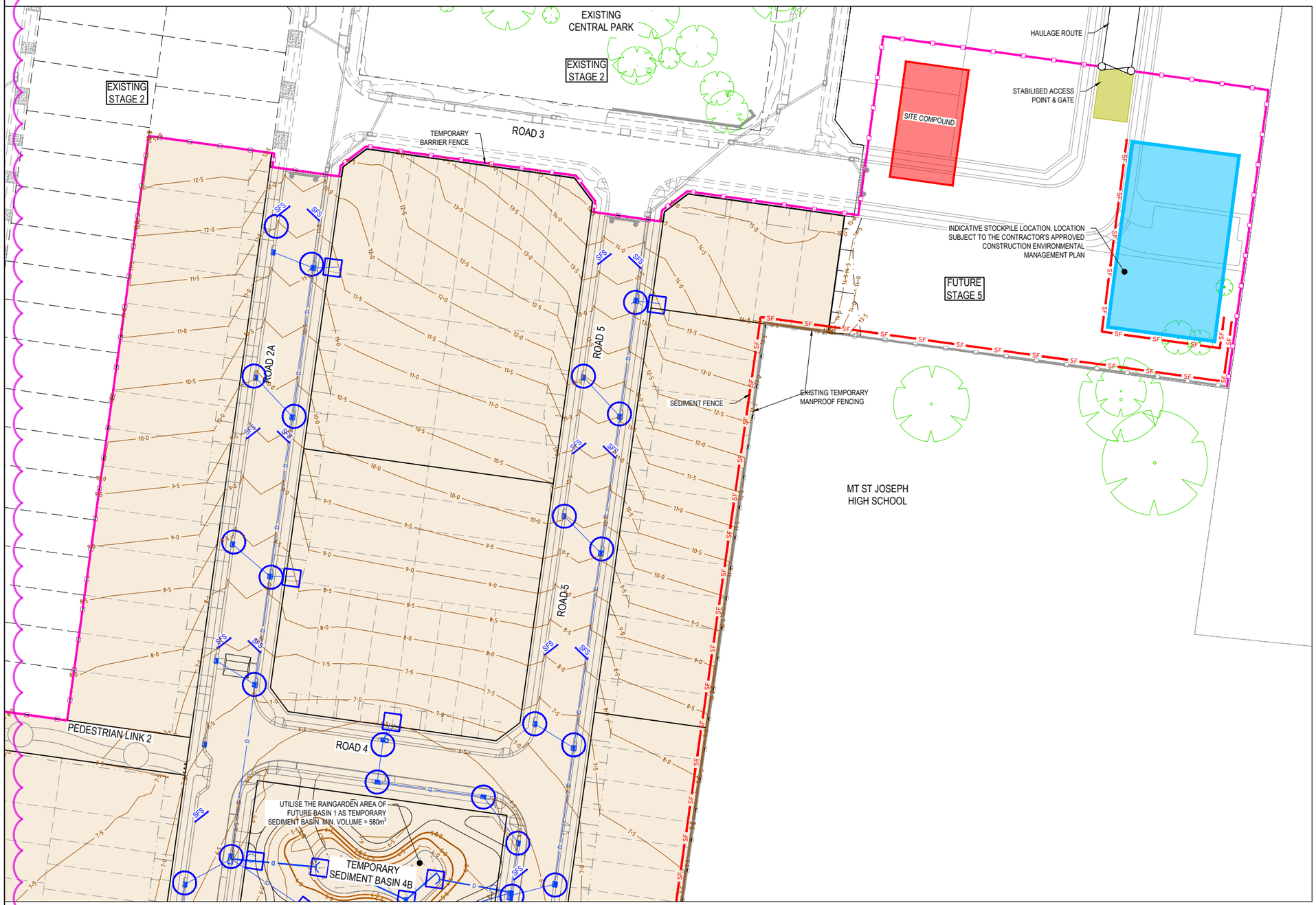
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: SOIL & WATER MANAGEMENT PLAN
STAGE 4
SHEET 1 OF 2

Sheet 155 of 162
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 806 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-804-SWM.dwg




FOR CONTINUATION REFER DRAWING No.806

C

## LEGEND

- EXISTING SURFACE CONTOURS
- PROPOSED DRAINAGE PIPE AND PIT
- TEMPORARY DRAINAGE PIPE AND PIT
- GRAVEL KERB INLET SEDIMENT TRAP
- GEOTEXTILE FILTER AROUND GRATED SURFACE INLET PITS
- STABILISED ACCESS POINT
- NEW 1.8m HIGH TEMPORARY MANPROOF FENCE W/ SHADE CLOTH
- HI-VIS MESH FENCING TO LIMIT CONTRACTORS ACTIVITIES TO THE STAGE 4 LIMITS
- LEVEL SPREADER
- SAND OR AGGREGATE FILLED HESSIAN FILTER LAIDACROSS ROAD PAVEMENT TO TRAP LOCALISED SILT MATERIAL
- SEDIMENT FENCING
- STRAW BALE
- TREE PROTECTION FENCING
- TEMPORARY SEDIMENT BASIN
- SITE COMPOUND
- INDICATIVE STOCKPILE LOCATION
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

NOTE: ALL SOIL AND WATER MANAGEMENT DETAILS ARE NOTED ON SOIL AND WATER MANAGEMENT NOTES. SEDIMENT & MANPROOF FENCES ARE TO BE LOCATED WHOLLY WITHIN BOUNDARIES & HAVE BEEN SHOWN DIAGRAMMATICALLY. PROVIDE CONSTRUCTION SIGN & AMENITIES IN ACCORDANCE WITH CONDITIONS OF THE DA.

NOTE: MEASURES PROPOSED IN THE PLAN ARE FOR GUIDANCE AND SUBJECT TO MODIFICATION TO SUIT CONTRACTORS METHODOLOGY & APPROVAL OF THE PRINCIPLE CERTIFYING AUTHORITY.

## CONSTRUCTION SEQUENCE

FOLLOWING REMEDIATION OF THE AREA:

1. PLACE ALL SEDIMENT CONTROLS INCLUDING BASINS & OVERLAND FLOW PATHS FOR PCA APPROVAL BEFORE STARTING ANY WORKS ON SITE.
2. ALL TOPSOIL CONTAINING VEGETATION TO BE STRIPPED FROM EXISTING SURFACE & STOCKPILED FOR REMOVAL OFF-SITE (APPROX. 75mm THICK).
3. ALL TOPSOIL NOT CONTAINING VEGETATION TO BE STRIPPED FROM THE SITE & STOCKPILED FOR AMELIORATION FOR USE ELSEWHERE IN THE SITE OR BLENDING WITH CLAY / FILL TO BE USED AS FILL MATERIAL ON SITE.
4. PLACE REMEDIATION MATERIAL AT DEPTH IN ACCORDANCE WITH GEOTECHNICAL & ENVIRONMENTAL / SITE AUDITOR DIRECTION. MATERIAL TO BE BLENDED WITH FILL MATERIAL TO ACHIEVE COMPACTION REQUIREMENTS. ALL FILL TO BE PLACED UNDER LEVEL 1 GEOTECHNICAL SUPERVISION.
5. STRIPPED SURFACE TO BE INSPECTED & CERTIFIED READY FOR FILL PLACEMENT BY GEOTECHNICAL ENGINEER.
6. COMPLETE INITIAL EARTHWORKS IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S REPORT
7. IMPORTED FILL TO BE CERTIFIED AS V.E.N.M. & FREE OF SLAG, HAZARDOUS, CONTAMINATED, TOXIC, PUTRESCIBLE OR RADIO-ACTIVE MATTER & INDUSTRIAL WASTE & BUILDING DEBRIS. THE ORIGIN OF FILL PROPOSED TO BE IMPORTED & THE ABOVE CERTIFICATION TO BE REVIEWED & APPROVED BY COUNCIL PRIOR TO ANY IMPORTED FILL ARRIVING ON SITE.
8. ALL FILL IS TO BE PLACED & COMPACTED IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATION.
9. ALL FILL TO BE PLACED UNDER LEVEL 1 GEOTECHNICAL SUPERVISION.
10. COPIES OF ALL FILL COMPACTION TESTS TO BE PROVIDED TO PRINCIPLE.
11. INSTALL ALL PIT & KERB INLET FILTERS / SEDIMENT TRAPS.
12. 300mm WIDE, 50mm THICK TOPSOIL TO BE PLACED BEHIND KERBS & TURFED WITH KIKUYU TURF WITH ADDITIONAL SEDIMENT FENCING FOR BUILDING SITES
13. FINAL TOPSOIL/ TURF & PATHWAYS WITHIN ROAD VERGES TO BE BONDED WITH COUNCIL & COMPLETED BY BUILDERS FOLLOWING HOUSE CONSTRUCTION

## SEDIMENT BASIN

1. THE CONTRACTOR IS TO ENSURE STORMWATER RUNOFF IS DIRECTED TO THE SEDIMENT BASIN WITH PLACEMENT OF TEMPORARY DIVERSION MOUNDS OR THE FORMATION OF OVERLAND FLOW PATHS.
2. DIVERSION MOUNDS & FLOW PATHS ARE TO BE ADJUSTED AS FILLING LAYERS PROGRESS & SURFACE LEVELS RISE.
3. SEDIMENT IS TO BE REMOVED SUCH THAT NOT LESS THAN 70% OF THE DESIGN CAPACITY IS AVAILABLE AT ALL TIMES MARKERS WITH DEPTH INDICATORS ARE TO BE PLACED IN EACH BASIN TO INDICATE WHEN SEDIMENT ACCUMULATION EXCEEDS 30% OF STORAGE REQUIREMENTS.
4. BASINS ARE TO BE FLOCCULATED WITH GYPSUM WHEN SUSPENDED SOLID CONCENTRATION EXCEEDS *50 milligrams per litre*. SPREADING RATE TO BE DETERMINED AFTER TESTING AND ANALYSIS OF THE INITIAL STORM EVENT. FIRST APPLICATION IS TO BE *30 kilograms GYPSUM PER 100 cum.* OF STORED WATER & THEREAFTER AS DETERMINED BY TESTING. PUMP OUT CLEAN WATER TO LARGE GRASSED / VEGETATED AREA WITHIN 72 hrs OF TREATMENT. REFER LANDCOM SOIL & CONSTRUCTION - "MANAGING URBAN STORMWATER" MANUAL - APPENDIX E
5. UPON ADEQUATE SITE REVEGETATION & COUNCIL APPROVAL SEDIMENT BASIN IS TO BE DECOMMISSIONED & CONVERTED INTO RAINGARDENS PER DESIGN.

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

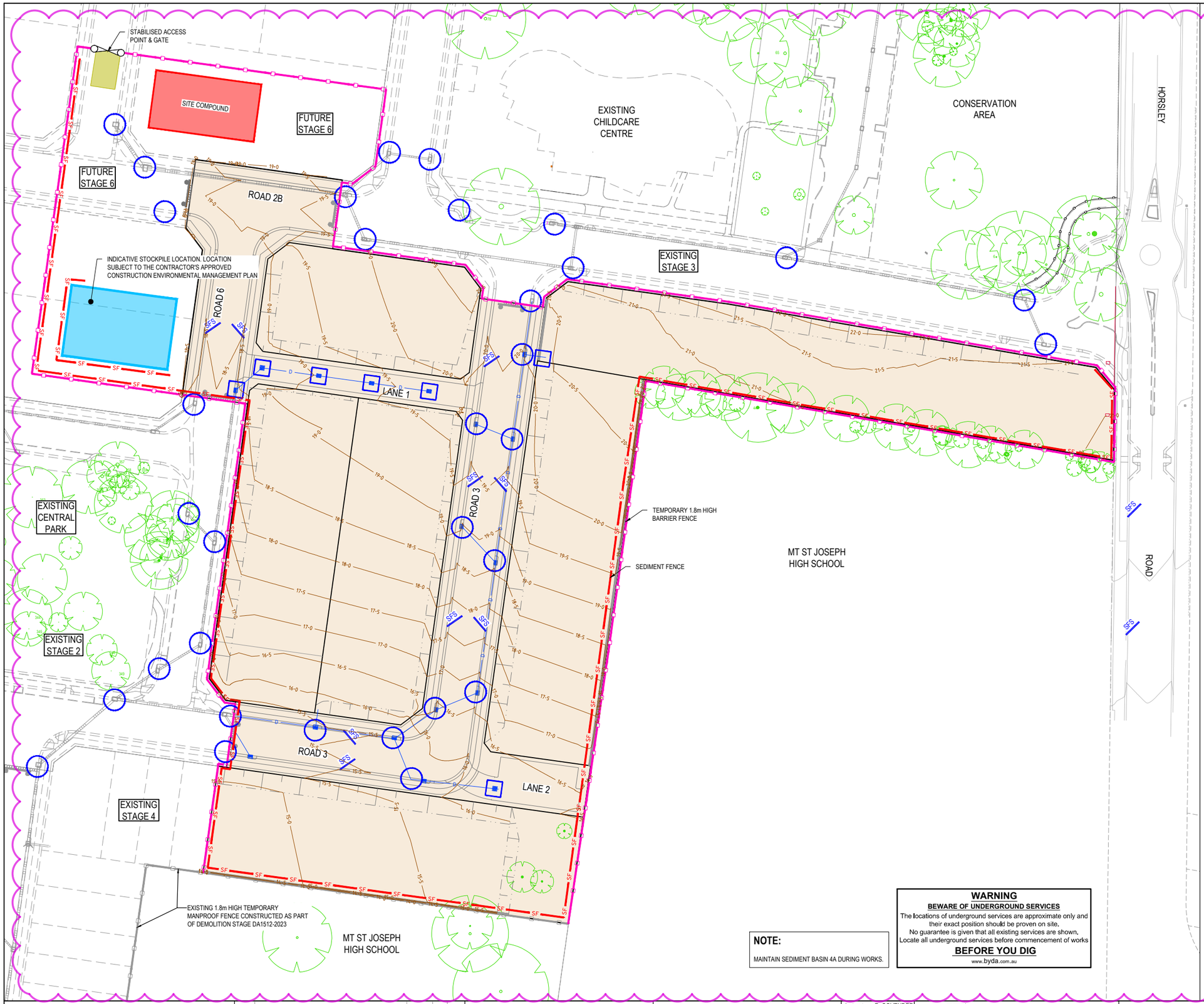
Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: SOIL & WATER MANAGEMENT PLAN
STAGE 4
SHEET 2 OF 2

Sheet 156 of 162
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 807 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-804-SWM.dwg




## LEGEND

- EXISTING SURFACE CONTOURS
- PROPOSED DRAINAGE PIPE AND PIT
- TEMPORARY DRAINAGE PIPE AND PIT
- GRAVEL KERB INLET SEDIMENT TRAP
- GEOTEXTILE FILTER AROUND GRATED SURFACE INLET PITS
- STABILISED ACCESS POINT
- NEW 1.8m HIGH TEMPORARY MANPROOF FENCE W/ SHADE CLOTH
- HI-VIS MESH FENCING TO LIMIT CONTRACTORS ACTIVITIES TO THE STAGE 5 LIMITS
- LEVEL SPREADER
- SFS — SAND OR AGGREGATE FILLED HESSIAN FILTER LAIDACROSS ROAD PAVEMENT TO TRAP LOCALISED SILT MATERIAL
- SF — SEDIMENT FENCING
- STRAW BALE
- TREE PROTECTION FENCING
- TEMPORARY SEDIMENT BASIN
- SITE COMPOUND
- INDICATIVE STOCKPILE LOCATION
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

NOTE: ALL SOIL AND WATER MANAGEMENT DETAILS ARE NOTED ON SOIL AND WATER MANAGEMENT NOTES. SEDIMENT & MANPROOF FENCES ARE TO BE LOCATED WHOLLY WITHIN BOUNDARIES & HAVE BEEN SHOWN DIAGRAMMATICALLY. PROVIDE CONSTRUCTION SIGN & AMENITIES IN ACCORDANCE WITH CONDITIONS OF THE DA.

NOTE: MEASURES PROPOSED IN THE PLAN ARE FOR GUIDANCE AND SUBJECT TO MODIFICATION TO SUIT CONTRACTORS METHODOLOGY & APPROVAL OF THE PRINCIPLE CERTIFYING AUTHORITY.

## CONSTRUCTION SEQUENCE

FOLLOWING REMEDIATION OF THE AREA:

1. PLACE ALL SEDIMENT CONTROLS INCLUDING BASINS & OVERLAND FLOW PATHS FOR PCA APPROVAL BEFORE STARTING ANY WORKS ON SITE.
2. ALL TOPSOIL CONTAINING VEGETATION TO BE STRIPPED FROM EXISTING SURFACE & STOCKPILED FOR REMOVAL OFF-SITE (APPROX. 75mm THICK).
3. ALL TOPSOIL NOT CONTAINING VEGETATION TO BE STRIPPED FROM THE SITE & STOCKPILED FOR AMELIORATION FOR USE ELSEWHERE IN THE SITE OR BLENDING WITH CLAY / FILL TO BE USED AS FILL MATERIAL ON SITE.
4. PLACE REMEDIATION MATERIAL AT DEPTH IN ACCORDANCE WITH GEOTECHNICAL & ENVIRONMENTAL / SITE AUDITOR DIRECTION. MATERIAL TO BE BLENDED WITH FILL MATERIAL TO ACHIEVE COMPACTION REQUIREMENTS. ALL FILL TO BE PLACED UNDER LEVEL 1 GEOTECHNICAL SUPERVISION.
5. STRIPPED SURFACE TO BE INSPECTED & CERTIFIED READY FOR FILL PLACEMENT BY GEOTECHNICAL ENGINEER.
6. COMPLETE INITIAL EARTHWORKS IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S REPORT
7. IMPORTED FILL TO BE CERTIFIED AS V.E.N.M. & FREE OF SLAG, HAZARDOUS, CONTAMINATED, TOXIC, PUTRESCIBLE OR RADIO-ACTIVE MATTER & INDUSTRIAL WASTE & BUILDING DEBRIS. THE ORIGIN OF FILL PROPOSED TO BE IMPORTED & THE ABOVE CERTIFICATION TO BE REVIEWED & APPROVED BY COUNCIL PRIOR TO ANY IMPORTED FILL ARRIVING ON SITE.
8. ALL FILL IS TO BE PLACED & COMPACTED IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATION.
9. ALL FILL TO BE PLACED UNDER LEVEL 1 GEOTECHNICAL SUPERVISION.
10. COPIES OF ALL FILL COMPACTION TESTS TO BE PROVIDED TO PRINCIPLE.
11. INSTALL ALL PIT & KERB INLET FILTERS / SEDIMENT TRAPS.
12. 300mm WIDE, 50mm THICK TOPSOIL TO BE PLACED BEHIND KERBS & TURFED WITH KIKUYU TURF WITH ADDITIONAL SEDIMENT FENCING FOR BUILDING SITES
13. FINAL TOPSOIL/ TURF & PATHWAYS WITHIN ROAD VERGES TO BE BONDED WITH COUNCIL & COMPLETED BY BUILDERS FOLLOWING HOUSE CONSTRUCTION

## SEDIMENT BASIN

1. THE CONTRACTOR IS TO ENSURE STORMWATER RUNOFF IS DIRECTED TO THE SEDIMENT BASIN WITH PLACEMENT OF TEMPORARY DIVERSION MOUNDS OR THE FORMATION OF OVERLAND FLOW PATHS.
2. DIVERSION MOUNDS & FLOW PATHS ARE TO BE ADJUSTED AS FILLING LAYERS PROGRESS & SURFACE LEVELS RISE.
3. SEDIMENT IS TO BE REMOVED SUCH THAT NOT LESS THAN 70% OF THE DESIGN CAPACITY IS AVAILABLE AT ALL TIMES MARKERS WITH DEPTH INDICATORS ARE TO BE PLACED IN EACH BASIN TO INDICATE WHEN SEDIMENT ACCUMULATION EXCEEDS 30% OF STORAGE REQUIREMENTS.
4. BASINS ARE TO BE FLOCCULATED WITH GYPSUM WHEN SUSPENDED SOLID CONCENTRATION EXCEEDS *50 milligrams per litre*. SPREADING RATE TO BE DETERMINED AFTER TESTING AND ANALYSIS OF THE INITIAL STORM EVENT. FIRST APPLICATION IS TO BE *30 kilograms GYPSUM PER 100 cum.* OF STORED WATER & THEREAFTER AS DETERMINED BY TESTING. PUMP OUT CLEAN WATER TO LARGE GRASSED / VEGETATED AREA WITHIN 72 hrs OF TREATMENT. REFER LANDCOM SOIL & CONSTRUCTION - "MANAGING URBAN STORMWATER" MANUAL - APPENDIX E
5. UPON ADEQUATE SITE REVEGETATION & COUNCIL APPROVAL SEDIMENT BASIN IS TO BE DECOMMISSIONED & CONVERTED INTO RAINGARDENS PER DESIGN.

**NOTE:**

MAINTAIN SEDIMENT BASIN 4A DURING WORKS.

**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2 & 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | SOIL & WATER MANAGEMENT PLAN<br>STAGE 5 |

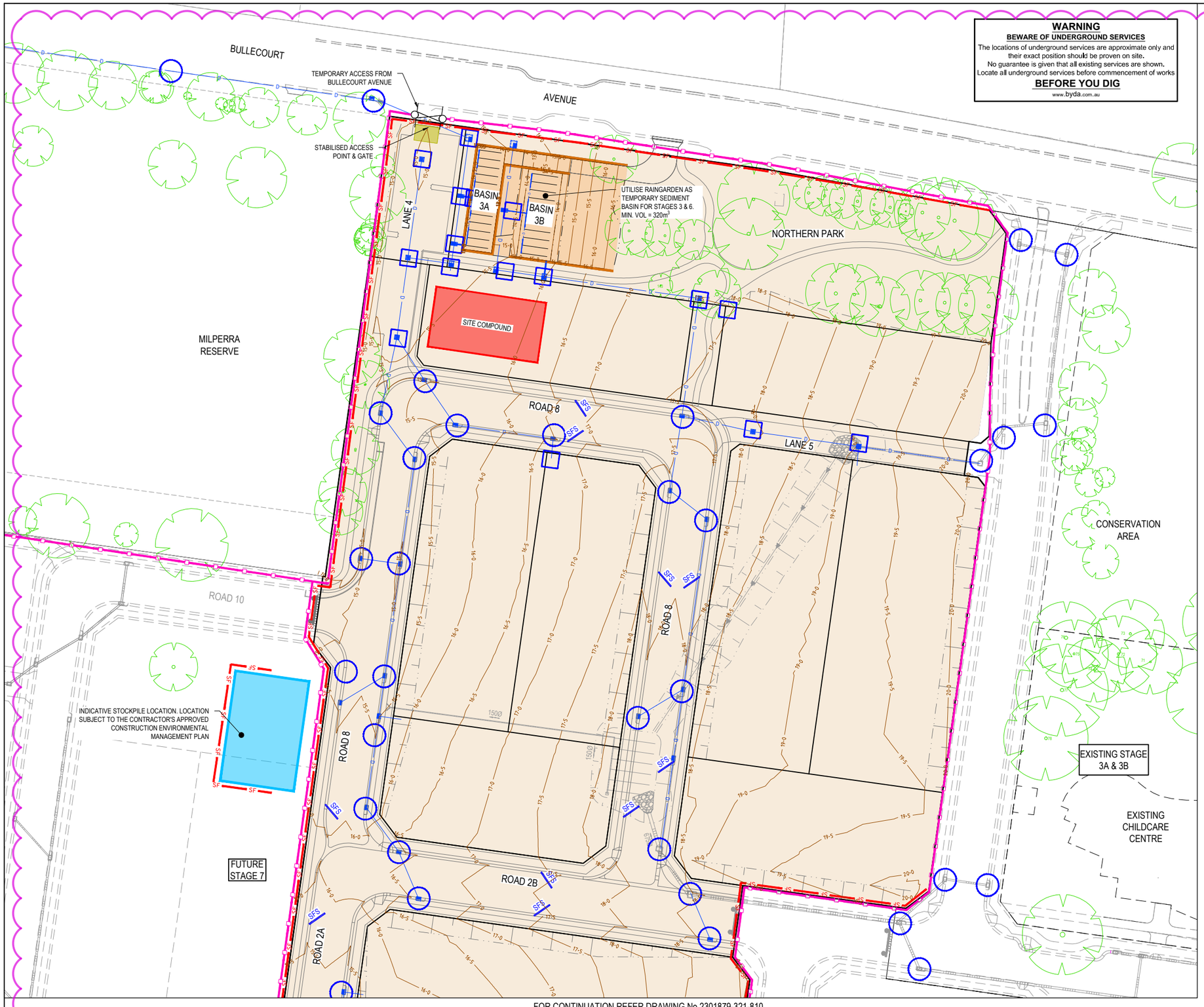
Sheet 157 of 162

Scale 1:500 @ A1

N

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 808 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-805-SWM.dwg




**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

C

## LEGEND

- EXISTING SURFACE CONTOURS
- PROPOSED DRAINAGE PIPE AND PIT
- TEMPORARY DRAINAGE PIPE AND PIT
- GRAVEL KERB INLET SEDIMENT TRAP
- GEOTEXTILE FILTER AROUND GRATED SURFACE INLET PITS
- STABILISED ACCESS POINT
- NEW 1.8m HIGH TEMPORARY MANPROOF FENCE W/ SHADE CLOTH
- HI-VIS MESH FENCING TO LIMIT CONTRACTORS ACTIVITIES TO THE STAGE 6 LIMITS
- LEVEL SPREADER
- SFS — SAND OR AGGREGATE FILLED HESSIAN FILTER LAIDACROSS ROAD PAVEMENT TO TRAP LOCALISED SILT MATERIAL
- SF — SEDIMENT FENCING
- STRAW BALE
- TREE PROTECTION FENCING
- TEMPORARY SEDIMENT BASIN
- SITE COMPOUND
- INDICATIVE STOCKPILE LOCATION
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

NOTE: ALL SOIL AND WATER MANAGEMENT DETAILS ARE NOTED ON SOIL AND WATER MANAGEMENT NOTES. SEDIMENT & MANPROOF FENCES ARE TO BE LOCATED WHOLLY WITHIN BOUNDARIES & HAVE BEEN SHOWN DIAGRAMMATICALLY. PROVIDE CONSTRUCTION SIGN & AMENITIES IN ACCORDANCE WITH CONDITIONS OF THE DA.

NOTE: MEASURES PROPOSED IN THE PLAN ARE FOR GUIDANCE AND SUBJECT TO MODIFICATION TO SUIT CONTRACTORS METHODOLOGY & APPROVAL OF THE PRINCIPLE CERTIFYING AUTHORITY.

## CONSTRUCTION SEQUENCE

FOLLOWING REMEDIATION OF THE AREA:

1. PLACE ALL SEDIMENT CONTROLS INCLUDING BASINS & OVERLAND FLOW PATHS FOR PCA APPROVAL BEFORE STARTING ANY WORKS ON SITE.
2. ALL TOPSOIL CONTAINING VEGETATION TO BE STRIPPED FROM EXISTING SURFACE & STOCKPILED FOR REMOVAL OFF-SITE (APPROX. 75mm THICK).
3. ALL TOPSOIL NOT CONTAINING VEGETATION TO BE STRIPPED FROM THE SITE & STOCKPILED FOR AMELIORATION FOR USE ELSEWHERE IN THE SITE OR BLENDING WITH CLAY / FILL TO BE USED AS FILL MATERIAL ON SITE.
4. PLACE REMEDIATION MATERIAL AT DEPTH IN ACCORDANCE WITH GEOTECHNICAL & ENVIRONMENTAL / SITE AUDITOR DIRECTION. MATERIAL TO BE BLENDED WITH FILL MATERIAL TO ACHIEVE COMPACTION REQUIREMENTS. ALL FILL TO BE PLACED UNDER LEVEL 1 GEOTECHNICAL SUPERVISION.
5. STRIPPED SURFACE TO BE INSPECTED & CERTIFIED READY FOR FILL PLACEMENT BY GEOTECHNICAL ENGINEER.
6. COMPLETE INITIAL EARTHWORKS IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S REPORT
7. IMPORTED FILL TO BE CERTIFIED AS V.E.N.M. & FREE OF SLAG, HAZARDOUS, CONTAMINATED, TOXIC, PUTRESCIBLE OR RADIO-ACTIVE MATTER & INDUSTRIAL WASTE & BUILDING DEBRIS. THE ORIGIN OF FILL PROPOSED TO BE IMPORTED & THE ABOVE CERTIFICATION TO BE REVIEWED & APPROVED BY COUNCIL PRIOR TO ANY IMPORTED FILL ARRIVING ON SITE.
8. ALL FILL IS TO BE PLACED & COMPACTED IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATION.
9. ALL FILL TO BE PLACED UNDER LEVEL 1 GEOTECHNICAL SUPERVISION.
10. COPIES OF ALL FILL COMPACTION TESTS TO BE PROVIDED TO PRINCIPLE.
11. INSTALL ALL PIT & KERB INLET FILTERS / SEDIMENT TRAPS.
12. 300mm WIDE, 50mm THICK TOPSOIL TO BE PLACED BEHIND KERBS & TURFED WITH KIKUYU TURF WITH ADDITIONAL SEDIMENT FENCING FOR BUILDING SITES
13. FINAL TOPSOIL/ TURF & PATHWAYS WITHIN ROAD VERGES TO BE BONDED WITH COUNCIL & COMPLETED BY BUILDERS FOLLOWING HOUSE CONSTRUCTION

## SEDIMENT BASIN

1. THE CONTRACTOR IS TO ENSURE STORMWATER RUNOFF IS DIRECTED TO THE SEDIMENT BASIN WITH PLACEMENT OF TEMPORARY DIVERSION MOUNDS OR THE FORMATION OF OVERLAND FLOW PATHS.
2. DIVERSION MOUNDS & FLOW PATHS ARE TO BE ADJUSTED AS FILLING LAYERS PROGRESS & SURFACE LEVELS RISE.
3. SEDIMENT IS TO BE REMOVED SUCH THAT NOT LESS THAN 70% OF THE DESIGN CAPACITY IS AVAILABLE AT ALL TIMES MARKERS WITH DEPTH INDICATORS ARE TO BE PLACED IN EACH BASIN TO INDICATE WHEN SEDIMENT ACCUMULATION EXCEEDS 30% OF STORAGE REQUIREMENTS.
4. BASINS ARE TO BE FLOCCULATED WITH GYPSUM WHEN SUSPENDED SOLID CONCENTRATION EXCEEDS 50 *milligrams per litre*. SPREADING RATE TO BE DETERMINED AFTER TESTING AND ANALYSIS OF THE INITIAL STORM EVENT. FIRST APPLICATION IS TO BE *30 kilograms GYPSUM PER 100 cum*. OF STORED WATER & THEREAFTER AS DETERMINED BY TESTING. PUMP OUT CLEAN WATER TO LARGE GRASSED / VEGETATED AREA WITHIN 72 hrs OF TREATMENT. REFER LANDCOM SOIL & CONSTRUCTION - "MANAGING URBAN STORMWATER" MANUAL - APPENDIX E
5. UPON ADEQUATE SITE REVEGETATION & COUNCIL APPROVAL SEDIMENT BASIN IS TO BE DECOMMISSIONED & CONVERTED INTO RAINGARDENS PER DESIGN.

FOR CONTINUATION REFER DRAWING No.2301879-321-810

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT. All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

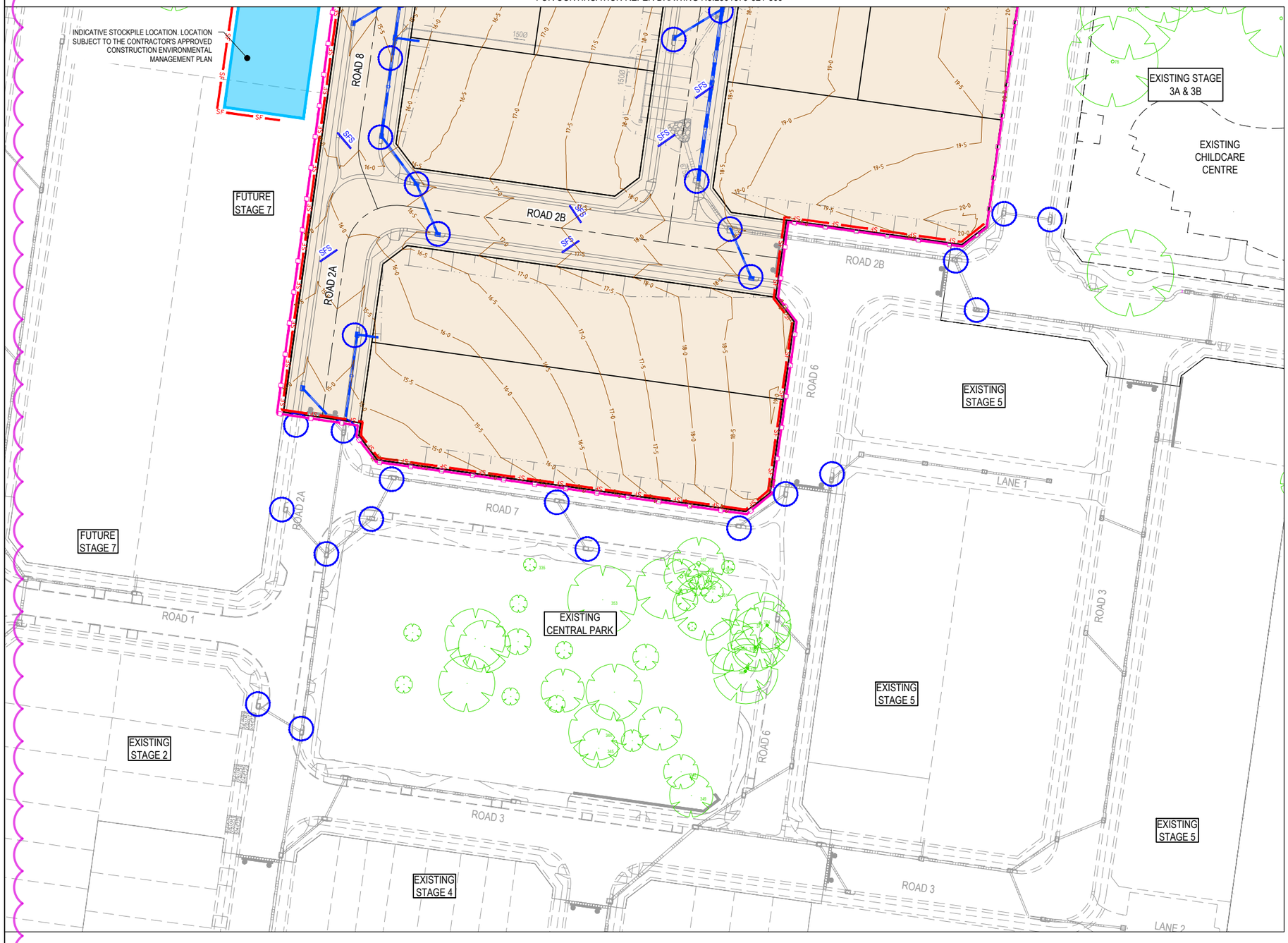
Drawing Title: SOIL & WATER MANAGEMENT PLAN
STAGE 6
SHEET 1 OF 2

Sheet 158 of 162
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 809 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-806-SWM.dwg

FOR CONTINUATION REFER DRAWING No.2301879-321-809




C

## LEGEND

- EXISTING SURFACE CONTOURS
- PROPOSED DRAINAGE PIPE AND PIT
- TEMPORARY DRAINAGE PIPE AND PIT
- GRAVEL KERB INLET SEDIMENT TRAP
- GEOTEXTILE FILTER AROUND GRATED SURFACE INLET PITS
- STABILISED ACCESS POINT
- NEW 1.8m HIGH TEMPORARY MANPROOF FENCE W/ SHADE CLOTH
- HI-VIS MESH FENCING TO LIMIT CONTRACTORS ACTIVITIES TO THE STAGE 6 LIMITS
- LEVEL SPREADER
- SFS — SAND OR AGGREGATE FILLED HESSIAN FILTER LAIDACROSS ROAD PAVEMENT TO TRAP LOCALISED SILT MATERIAL
- SF — SEDIMENT FENCING
- STRAW BALE
- TREE PROTECTION FENCING
- TEMPORARY SEDIMENT BASIN
- SITE COMPOUND
- INDICATIVE STOCKPILE LOCATION

NOTE: ALL SOIL AND WATER MANAGEMENT DETAILS ARE NOTED ON SOIL AND WATER MANAGEMENT NOTES. SEDIMENT & MANPROOF FENCES ARE TO BE LOCATED WHOLLY WITHIN BOUNDARIES & HAVE BEEN SHOWN DIAGRAMMATICALLY. PROVIDE CONSTRUCTION SIGN & AMENITIES IN ACCORDANCE WITH CONDITIONS OF THE DA.

NOTE: MEASURES PROPOSED IN THE PLAN ARE FOR GUIDANCE AND SUBJECT TO MODIFICATION TO SUIT CONTRACTORS METHODOLOGY & APPROVAL OF THE PRINCIPLE CERTIFYING AUTHORITY.

## CONSTRUCTION SEQUENCE

FOLLOWING REMEDIATION OF THE AREA:

1. PLACE ALL SEDIMENT CONTROLS INCLUDING BASINS & OVERLAND FLOW PATHS FOR PCA APPROVAL BEFORE STARTING ANY WORKS ON SITE.
2. ALL TOPSOIL CONTAINING VEGETATION TO BE STRIPPED FROM EXISTING SURFACE & STOCKPILED FOR REMOVAL OFF-SITE (APPROX. 75mm THICK).
3. ALL TOPSOIL NOT CONTAINING VEGETATION TO BE STRIPPED FROM THE SITE & STOCKPILED FOR AMELIORATION FOR USE ELSEWHERE IN THE SITE OR BLENDING WITH CLAY / FILL TO BE USED AS FILL MATERIAL ON SITE.
4. PLACE REMEDIATION MATERIAL AT DEPTH IN ACCORDANCE WITH GEOTECHNICAL & ENVIRONMENTAL / SITE AUDITOR DIRECTION. MATERIAL TO BE BLENDED WITH FILL MATERIAL TO ACHIEVE COMPACTION REQUIREMENTS. ALL FILL TO BE PLACED UNDER LEVEL 1 GEOTECHNICAL SUPERVISION.
5. STRIPPED SURFACE TO BE INSPECTED & CERTIFIED READY FOR FILL PLACEMENT BY GEOTECHNICAL ENGINEER.
6. COMPLETE INITIAL EARTHWORKS IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S REPORT
7. IMPORTED FILL TO BE CERTIFIED AS V.E.N.M. & FREE OF SLAG, HAZARDOUS, CONTAMINATED, TOXIC, PUTRESCIBLE OR RADIO-ACTIVE MATTER & INDUSTRIAL WASTE & BUILDING DEBRIS. THE ORIGIN OF FILL PROPOSED TO BE IMPORTED & THE ABOVE CERTIFICATION TO BE REVIEWED & APPROVED BY COUNCIL PRIOR TO ANY IMPORTED FILL ARRIVING ON SITE.
8. ALL FILL IS TO BE PLACED & COMPACTED IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATION.
9. ALL FILL TO BE PLACED UNDER LEVEL 1 GEOTECHNICAL SUPERVISION.
10. COPIES OF ALL FILL COMPACTION TESTS TO BE PROVIDED TO PRINCIPLE.
11. INSTALL ALL PIT & KERB INLET FILTERS / SEDIMENT TRAPS.
12. 300mm WIDE, 50mm THICK TOPSOIL TO BE PLACED BEHIND KERBS & TURFED WITH KIKUYU TURF WITH ADDITIONAL SEDIMENT FENCING FOR BUILDING SITES
13. FINAL TOPSOIL/ TURF & PATHWAYS WITHIN ROAD VERGES TO BE BONDED WITH COUNCIL & COMPLETED BY BUILDERS FOLLOWING HOUSE CONSTRUCTION

## SEDIMENT BASIN

1. THE CONTRACTOR IS TO ENSURE STORMWATER RUNOFF IS DIRECTED TO THE SEDIMENT BASIN WITH PLACEMENT OF TEMPORARY DIVERSION MOUNDS OR THE FORMATION OF OVERLAND FLOW PATHS.
2. DIVERSION MOUNDS & FLOW PATHS ARE TO BE ADJUSTED AS FILLING LAYERS PROGRESS & SURFACE LEVELS RISE.
3. SEDIMENT IS TO BE REMOVED SUCH THAT NOT LESS THAN 70% OF THE DESIGN CAPACITY IS AVAILABLE AT ALL TIMES MARKERS WITH DEPTH INDICATORS ARE TO BE PLACED IN EACH BASIN TO INDICATE WHEN SEDIMENT ACCUMULATION EXCEEDS 30% OF STORAGE REQUIREMENTS.
4. BASINS ARE TO BE FLOCCULATED WITH GYPSUM WHEN SUSPENDED SOLID CONCENTRATION EXCEEDS *50 milligrams per litre*. SPREADING RATE TO BE DETERMINED AFTER TESTING AND ANALYSIS OF THE INITIAL STORM EVENT. FIRST APPLICATION IS TO BE *30 kilograms GYPSUM PER 100 cum.* OF STORED WATER & THEREAFTER AS DETERMINED BY TESTING. PUMP OUT CLEAN WATER TO LARGE GRASSED / VEGETATED AREA WITHIN 72 hrs OF TREATMENT. REFER LANDCOM SOIL & CONSTRUCTION - "MANAGING URBAN STORMWATER" MANUAL - APPENDIX E
5. UPON ADEQUATE SITE REVEGETATION & COUNCIL APPROVAL SEDIMENT BASIN IS TO BE DECOMMISSIONED & CONVERTED INTO RAINGARDENS PER DESIGN.

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
**BEFORE YOU DIG**
www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT. All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

Project Details: WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984
2 & 2A BULLECOURT AVENUE, MILPERRA

Drawing Title: SOIL & WATER MANAGEMENT PLAN
STAGE 6
SHEET 2 OF 2

Sheet 159 of 162
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 810 | C |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-806-SWM.dwg




C

## LEGEND

- EXISTING SURFACE CONTOURS
- PROPOSED DRAINAGE PIPE AND PIT
- TEMPORARY DRAINAGE PIPE AND PIT
- GRAVEL KERB INLET SEDIMENT TRAP
- GEOTEXTILE FILTER AROUND GRATED SURFACE INLET PITS
- STABILISED ACCESS POINT
- NEW 1.8m HIGH TEMPORARY MANPROOF FENCE W/ SHADE CLOTH
- HI-VIS MESH FENCING TO LIMIT CONTRACTORS ACTIVITIES TO THE STAGE 7 LIMITS
- LEVEL SPREADER
- SFS — SAND OR AGGREGATE FILLED HESSIAN FILTER LAIDACROSS ROAD PAVEMENT TO TRAP LOCALISED SILT MATERIAL
- SF — SEDIMENT FENCING
- STRAW BALE
- TREE PROTECTION FENCING
- TEMPORARY SEDIMENT BASIN
- SITE COMPOUND
- INDICATIVE STOCKPILE LOCATION
- INDICATIVE RESIDENTIAL LOT BOUNDARY. SUBJECT TO FURTHER DA APPROVAL

NOTE: ALL SOIL AND WATER MANAGEMENT DETAILS ARE NOTED ON SOIL AND WATER MANAGEMENT NOTES. SEDIMENT & MANPROOF FENCES ARE TO BE LOCATED WHOLLY WITHIN BOUNDARIES & HAVE BEEN SHOWN DIAGRAMMATICALLY. PROVIDE CONSTRUCTION SIGN & AMENITIES IN ACCORDANCE WITH CONDITIONS OF THE DA.

NOTE: MEASURES PROPOSED IN THE PLAN ARE FOR GUIDANCE AND SUBJECT TO MODIFICATION TO SUIT CONTRACTORS METHODOLOGY & APPROVAL OF THE PRINCIPLE CERTIFYING AUTHORITY.

## CONSTRUCTION SEQUENCE

FOLLOWING REMEDIATION OF THE AREA:

1. PLACE ALL SEDIMENT CONTROLS INCLUDING BASINS & OVERLAND FLOW PATHS FOR PCA APPROVAL BEFORE STARTING ANY WORKS ON SITE.
2. ALL TOPSOIL CONTAINING VEGETATION TO BE STRIPPED FROM EXISTING SURFACE & STOCKPILED FOR REMOVAL OFF-SITE (APPROX. 75mm THICK).
3. ALL TOPSOIL NOT CONTAINING VEGETATION TO BE STRIPPED FROM THE SITE & STOCKPILED FOR AMELIORATION FOR USE ELSEWHERE IN THE SITE OR BLENDING WITH CLAY / FILL TO BE USED AS FILL MATERIAL ON SITE.
4. PLACE REMEDIATION MATERIAL AT DEPTH IN ACCORDANCE WITH GEOTECHNICAL & ENVIRONMENTAL / SITE AUDITOR DIRECTION. MATERIAL TO BE BLENDED WITH FILL MATERIAL TO ACHIEVE COMPACTION REQUIREMENTS. ALL FILL TO BE PLACED UNDER LEVEL 1 GEOTECHNICAL SUPERVISION.
5. STRIPPED SURFACE TO BE INSPECTED & CERTIFIED READY FOR FILL PLACEMENT BY GEOTECHNICAL ENGINEER.
6. COMPLETE INITIAL EARTHWORKS IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S REPORT
7. IMPORTED FILL TO BE CERTIFIED AS V.E.N.M. & FREE OF SLAG, HAZARDOUS, CONTAMINATED, TOXIC, PUTRESCIBLE OR RADIO-ACTIVE MATTER & INDUSTRIAL WASTE & BUILDING DEBRIS. THE ORIGIN OF FILL PROPOSED TO BE IMPORTED & THE ABOVE CERTIFICATION TO BE REVIEWED & APPROVED BY COUNCIL PRIOR TO ANY IMPORTED FILL ARRIVING ON SITE.
8. ALL FILL IS TO BE PLACED & COMPACTED IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATION.
9. ALL FILL TO BE PLACED UNDER LEVEL 1 GEOTECHNICAL SUPERVISION.
10. COPIES OF ALL FILL COMPACTION TESTS TO BE PROVIDED TO PRINCIPLE.
11. INSTALL ALL PIT & KERB INLET FILTERS / SEDIMENT TRAPS.
12. 300mm WIDE, 50mm THICK TOPSOIL TO BE PLACED BEHIND KERBS & TURFED WITH KIKUYU TURF WITH ADDITIONAL SEDIMENT FENCING FOR BUILDING SITES
13. FINAL TOPSOIL/ TURF & PATHWAYS WITHIN ROAD VERGES TO BE BONDED WITH COUNCIL & COMPLETED BY BUILDERS FOLLOWING HOUSE CONSTRUCTION

**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| C | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

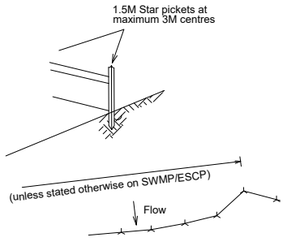
| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984 2 & 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | SOIL & WATER MANAGEMENT PLAN STAGE 7 |

Sheet 160 of 162

Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 811 | C |

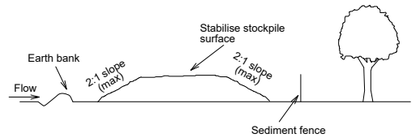
C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-807-SWM.dwg




Star pickets at maximum 3M spacings

1. Construct sediment fence as close as possible to parallel to the contours of the site
2. Drive 1.5 metre long star pickets into ground, 3 metres apart.
3. Dig a 150MM deep trench along the upslope line of the fence for the bottom of the fabric to be entrenched
5. Fix self supporting geotextile to upslope side of posts with wire ties or as recommended by geotextile manufacturer
6. Join sections of fabric at a support post with a 150mm overlap

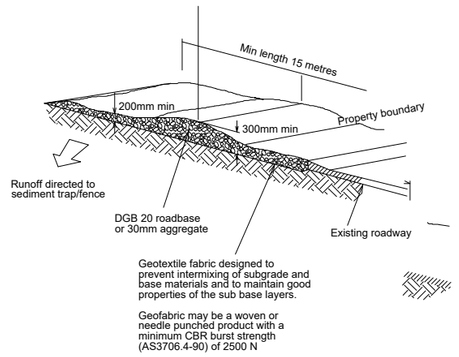
SEDIMENT FENCE




Construction Notes

1. Locate stockpile at least 5 metres from existing vegetation, concentrated water flows, roads and hazard areas.
2. Construct on the contour as a low, flat elongated mound.
3. All stockpiles shall be less than 2 metres in height
4. Rehabilitate in accordance with the SWMP/ESCP.
5. Construct earth bank (Standard Drawing 5-2) on the upslope side to divert run off around the stockpile and a sediment fence (standard Drawing 6-7) 1 to 2 metres downslope of stockpile.
6. Seeded areas to be watered twice weekly until established. Substantial growth required within 14 days or bitumen straw mulch to be placed.
7. Dust to be controlled by watering

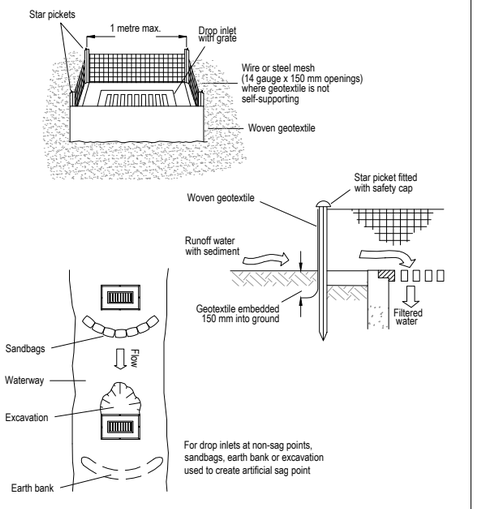
STOCKPILES




Construction Notes

1. Strip topsoil and level site.
2. Compact subgrade
3. Cover area with needle punch geotextile.
4. Construct 200mm thick pad over geotextile using roadbase or 30mm aggregate. Minimum length 15 metres or to building alignment width 3 metres
5. Construct hump immediately within boundary to divert water to a sediment fence or other sediment trap.

STABILISED SITE ACCESS

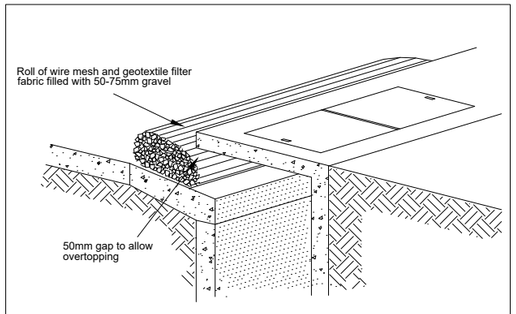



## GEOTEXTILE INLET FILTER (SD 6-12)

NTS

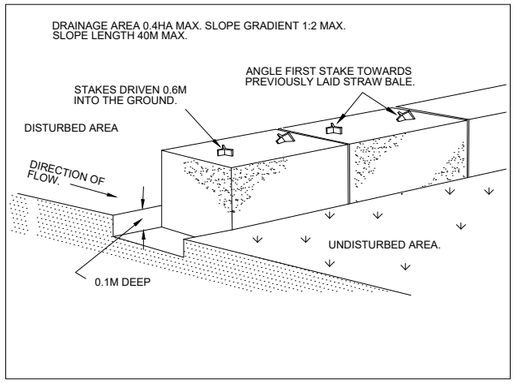
Construction Notes

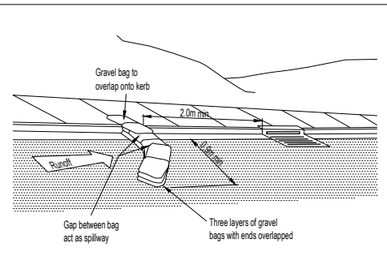
1. Fabricate a sediment barrier made from geotextile or straw bales.
2. Follow Standard Drawing 6-7 and Standard Drawing 6-8 for installation procedures for the straw bales or geofabric. Reduce the picket spacing to 1 metre centres.
3. In waterways, artificial sag points can be created with sandbags or earth banks as shown in the drawing.
4. Do not cover the inlet with geotextile unless the design is adequate to allow for all waters to bypass it.




Portable Gravel Kerb Inlet

Sediment Trap




KERB INLET CONTROL - ON GRADE

Gravel Bag Check Dam

SFS

## NOTES

ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE LANDCOM'S MANUAL "MANAGING URBAN STORMWATER" 4TH EDITION AUGUST 2004.

WORKS SHALL BE UNDERTAKEN AS OUTLINED ON PLANS EROSION AND SEDIMENT CONTROL MEASURES AFFECTED BY WORKS ARE TO BE RE-ESTABLISHED PRIOR TO THE COMPLETION OF EACH DAY'S WORK.

THE CONTRACTOR IS TO STABILISE ALL STOCKPILES AND DISTURBED AREAS AS SOON AS THEY ARE FORMED TO FINAL LEVELS. STABILISATION TO BE BY HYDROSEEDING / SPRAY GRASS, OR AS DIRECTED BY COUNCIL ENGINEER.

SEED MIXTURE FOR FOOTWAYS AND OTHER AREAS UNDER THE CONTROL OF COUNCIL ARE TO BE IN ACCORDANCE WITH COUNCIL'S SPECIFICATION. FOR OTHER AREAS, THE LIST OF PLANT SPECIES FOR TEMPORARY COVER IS:-

JAPANESE MILLET AND OATS(RYECORN) AT 25kg/ha EACH - SPRING/SUMMER
JAPANESE MILLET AT 10kg/ha AND OATS(RYECORN) AT 30kg/ha - AUTUMN/WINTER

ALL SEEDED AREAS ARE TO BE WATERED TWICE WEEKLY.

WHERE SURFACE SLOPES ARE MORE THAN 4H:1V BATTER THEY SHALL BE TURFED.

DUST CONTROL MEASURES SHALL BE IMPLEMENTED CONTINUOUSLY DURING CONSTRUCTION WORKS. SUCH MEASURES ARE TO BE TO THE SATISFACTION OF THE SUPERINTENDENT AND COUNCIL.

TOPSOIL SHALL BE RESPREAD ON CONSTRUCTION AREAS AND STABILISED AS SOON AS POSSIBLE WITHIN 60 DAYS OF DISTURBANCE. ALL DISTURBED AREAS ARE TO BE LEFT WITH A SCARIFIED SURFACE AT ALL TIMES TO ENCOURAGE WATER INFILTRATION AND ASSIST WITH KEYING OF TOPSOIL.

FOLLOWING COMPLETION OF WORKS AND STABILISATION OF ALL DISTURBED SURFACES, ALL MATERIALS AND CONTROL MEASURES ARE TO BE REMOVED FROM SITE AND TEMPORARY BASINS FILLED, COMPACTED AND STABILISED.

ALL SITE ACCESS TO BE ACHIEVED FROM DESIGNATED SITE ACCESS. SITE ACCESS TO BE PROTECTED BY THE INSTALLATION OF AN APPROVED SHAKER RAMP. SHAKER RAMP TO BE REGULARLY MAINTAINED TO ENSURE EFFECTIVENESS.

UPON COMPLETION OF FINAL EARTHWORKS OR AFTER WRITTEN DIRECTION OF COUNCIL, IMMEDIATE SILT CONSERVATION TREATMENTS SHALL BE APPLIED SO AS TO RENDER AREAS THAT HAVE BEEN DISTURBED, EROSION PROOF WITHIN 14 DAYS.

ALL DISTURBED OVER ALL STORMWATER, POWER, TELEPHONE, GAS AND SEWER LINES NOT WITHIN STREETS IS TO BE SPRAY GRASSED AS SOON AS POSSIBLE BUT NO LATER THAN WITHIN 14 DAYS AFTER BACKFILL.

NO MORE THAN 150m OF TRENCH IS TO BE OPEN AT ANY ONE TIME. ALL TEMPORARY EARTH BERMS, DIVERSION AND SEDIMENT BASIN EMBANKMENTS ARE TO BE TRACK ROLLED, SEEDED OR MULCHED OR SPRAYED WITH BITUMEN AS SOON AS THEY HAVE BEEN FORMED.

ALL FILLS ARE TO BE LEFT WITH A WINDROW AT LEAST 20cm HIGH AT THE TOP OF THE SLOPE AT THE END OF EACH DAY'S EARTHWORKS AMD ALL EARTHWORK AREAS SHALL BE ROLLED EACH EVENING TO "SEAL" THE EARTHWORKS.

STABILISATION OF ALL CUT AND FILL SLOPES SHALL BE COMMENCED WITHIN 14 DAYS OF COMPLETION OF FORMATION.

THE CONTRACTOR SHALL MAINTAIN AND PRODUCE ON REQUEST A LOGBOOK ON SITE DETAILING THE FOLLOWING:-

- RECORDS OF ALL RAINFALL
- DAILY CONDITION OF ALL EROSION AND SEDIMENT CONTROL MEASURES
- ANY APPLICATION OF FLOCCULATION AGENTS TO BASINS
- VOLUMES OF WATER DISCHARGED FROM BASINS
- METHOD OF DISPOSAL OF WATER FROM BASINS
- ANY ADDITIONAL REMEDIAL WORKS REQUIRED.

THE ORIGINAL LOGBOOK SHALL BE ISSUED TO THE PROJECT MANAGER ON COMPLETION OF THE WORKS. SEDIMENT CONTROL MEASURES TO BE MONITORED ONCE A WEEK AND AFTER EVERY STORM EVENT.

STOCKPILES TO BE MAX 2 METRE HIGH WITH SEDIMENT FENCING TO LOW SIDE LOCATED CLEAR OF WATERCOURSES

ALL STORMWATER PITS TO BE BLOCKED DURING CONSTRUCTION UNTIL SITE STABILISED.

DURING CONSTRUCTION WORKS ANY WORK AND STORAGE AREAS WHERE SPILLAGE MAY OCCUR MUST BE BUNDED. THE SIZE OF THE AREA TO BE BUNDED AND HEIGHT OF THE BUND WALLS MUST BE CALCULATED AS BEING EQUAL TO 110% OF THE TOTAL VOLUME STORED OR EQUAL TO THE LARGEST STORAGE CONTAINER, WHICH EVER IS GREATER. ALL PIPE WORK EXTENDING FROM THE BUNDED AREA MUST BE DIRECTED OVER THE BUND WALL AND HOSE COUPLINGS MUST BE PLACED SUCH THAT LEAKS AND SPILLAGE'S ARE CONTAINED. THE AREAS MUST BE GRADED TO A PIT/SUMP TO FACILITATE EMPTYING.

ANY IMPORTED FILL USED MUST BE VALIDATED & SUITABLE & FREE OF SALINE & CONTAMINATION

## SEDIMENT & EROSION CONTROL

SE1. THE CONTRACTOR SHALL IMPLEMENT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO DISTURBANCE OF THE WORK AREA & TO BE CARRIED OUT IN ACCORDANCE WITH LANDCOM'S "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION" VOLUME 1.

SE2. THE CONTRACTOR SHALL REGULARLY MAINTAIN ALL SEDIMENT AND EROSION CONTROL DEVICES AND REMOVE ACCUMULATED SILT FROM SUCH DEVICES BEFORE MORE THAN 60% OF THEIR CAPACITY IS LOST. ALL THE SILT REMOVED SHALL BE DISPOSED OF AS DIRECTED BY THE SUPERINTENDENT. NO SILT IS TO BE PLACED OUTSIDE THE LIMIT OF WORKS. THE PERIOD FOR MAINTAINING THESE DEVICES SHALL BE AT LEAST UNTIL ALL DISTURBED AREAS ARE REVEGETATED AND LONGER AS MAY BE DIRECTED BY THE SUPERINTENDENT OR COUNCIL.

SE3. VEHICULAR TRAFFIC SHALL BE CONTROLLED DURING CONSTRUCTION CONFINING ACCESS WHERE POSSIBLE TO PROPOSED OR EXISTING ROAD ALIGNMENTS.

SE4. WHEN ANY DEVICES ARE TO BE HANDED OVER TO COUNCIL, THEY SHALL BE IN A CLEAN & STABLE CONDITION.

SE5. THE CONTRACTOR SHALL MAINTAIN ALL REVEGETATED AREAS INCLUDING WATERING UNTIL FINAL COMPLETION OF WORKS.

SE6. THE CONTRACTOR SHALL MAINTAIN DUST CONTROL UNTIL FINAL COMPLETION OF WORKS.

SE7. THE CONTRACTOR'S RESPONSIBILITY IS TO ENSURE ALL NECESSARY MEASURES SO AS TO PROTECT ALL DISTURBED AREAS AS PER NOTE SE1. ALL ADDITIONAL COSTS ARE TO BE REFLECTED IN TENDER PRICE EVEN IF SUCH MEASURES ARE NOT INDICATED ON THE SEDIMENT AND EROSION CONTROL PLAN.

SE8. THE CONTRACTOR MUST COMMENCE REHABILITATION WITHIN 5 DAYS OF ANY SITE REGRADING & BATTER FORMATION.

SE9. A 0.3m WIDE STRIP OF TURF TO BE PLACED BEHIND NEW ROADS.

SE10. PROVIDE TURF AROUND ALL SURFACE INLET PITS IN ADDITION TO THE GEOTEXTILE INLET FILTER.

SE11. STOCKPILES TO BE STABILISED WITHIN 14 DAYS OF COMPLETING THE STOCKPILE.

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| B | FINAL ISSUE FOR SSDA | 07.11.25 | GN | SG |
| A | PRELIMINARY ISSUE FOR SSDA | 17.10.25 | RG | SG |

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | D.RAFTER |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

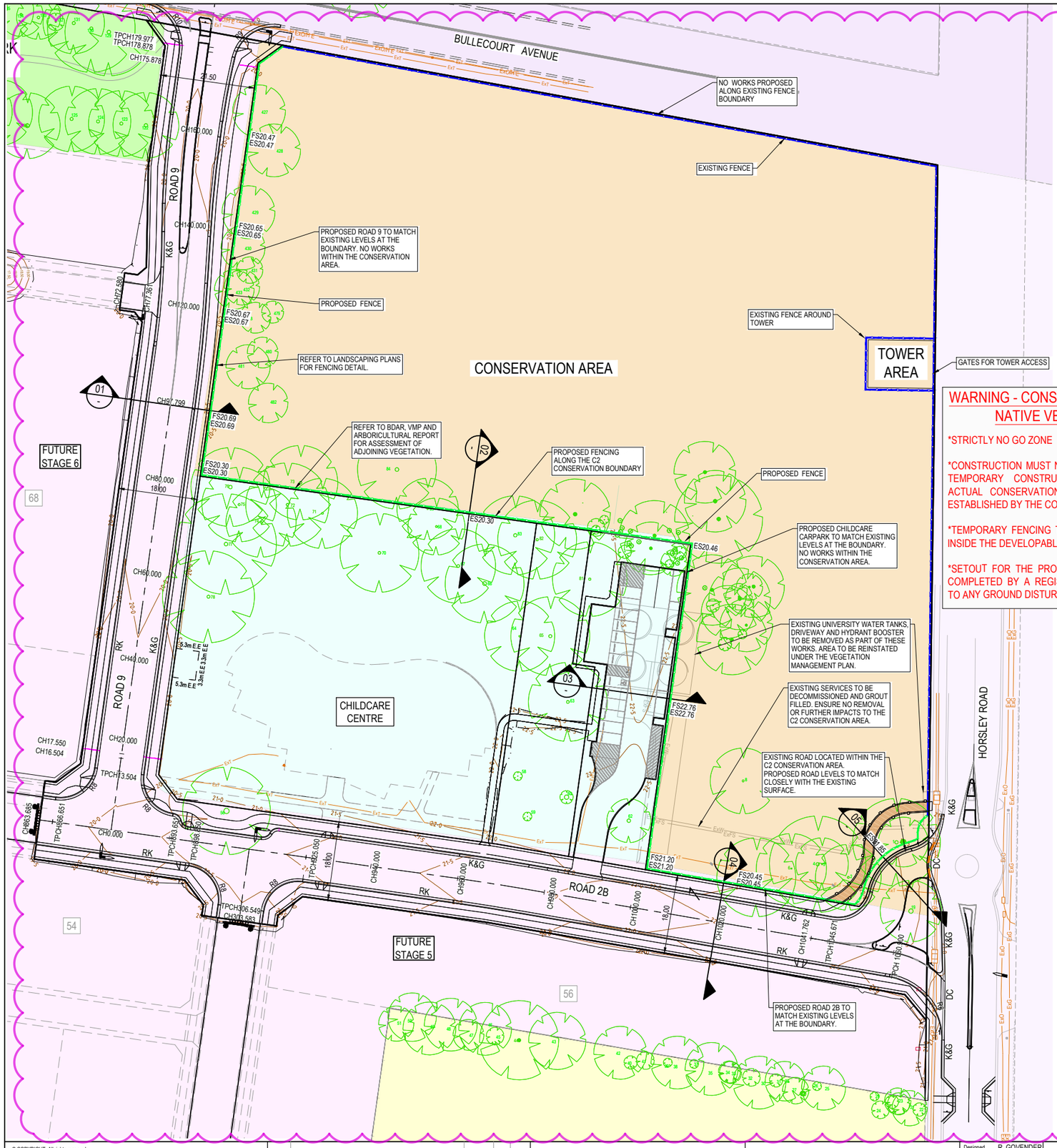
Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way
Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2 & 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | SOIL & WATER MANAGEMENT PLAN<br>DETAILS AND NOTES |

Sheet 161 of 162
Scale 1:500 @ A1
N

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 820 | B |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-820-SWM.dwg



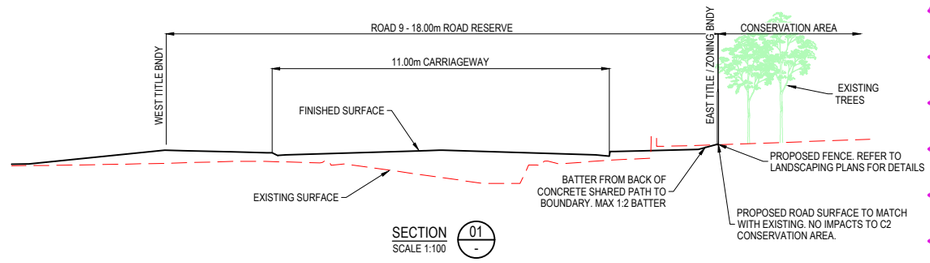

## WARNING - CONSERVATION AREA & NATIVE VEGETATION

*STRICTLY NO GO ZONE

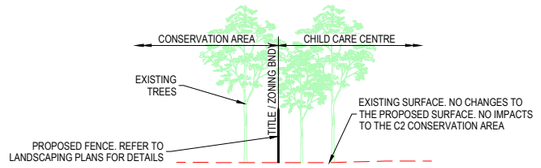
*CONSTRUCTION MUST NOT COMMENCE UNTIL THE TEMPORARY CONSTRUCTION FENCES AT THE ACTUAL CONSERVATION BOUNDARY HAVE BEEN ESTABLISHED BY THE CONTRACTOR

*TEMPORARY FENCING TO BE CONSTRUCTED 0.5m INSIDE THE DEVELOPABLE LAND.

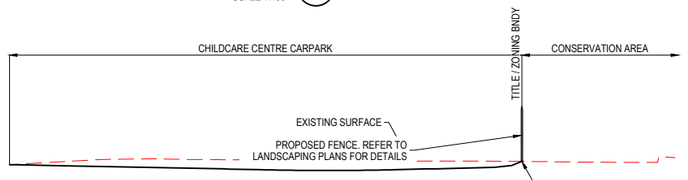
*SETOUT FOR THE PROPOSED FENCING IS TO BE COMPLETED BY A REGISTERED SURVEYOR PRIOR TO ANY GROUND DISTURBANCE.



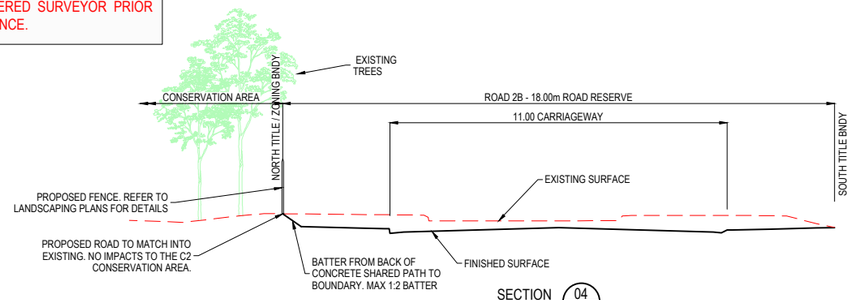

SECTION 01 / SCALE 1:100



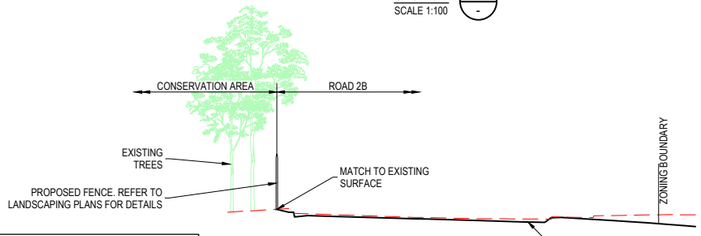

SECTION 02 / SCALE 1:100




SECTION 03 / SCALE 1:100




SECTION 04 / SCALE 1:100




SECTION 05 / SCALE 1:100

LEGEND - ZONING OVERLAY

- C2 - ENVIRONMENTAL CONSERVATION
- E1 - LOCAL CENTRE
- R1 - GENERAL RESIDENTIAL
- RE1 - PUBLIC RECREATION
- SP2 - INFRASTRUCTURE EDUCATIONAL ESTABLISHMENT
- EXISTING FENCE
- PROPOSED FENCE

**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

**BEFORE YOU DIG**

www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

| REV | DESCRIPTION | DATE | DRN. | APP. |
|---|---|---|---|---|
| A | RESPONSE TO SUBMISSIONS | 19.03.26 | GN | SG |

mirvac

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE

| | |
|---|---|
| Designed | R. GOVENDER |
| Date | 23.06.2025 |
| Drawn | G.N. |
| Checked | S. FERGUSON |
| Date | 07.11.25 |
| Approved | S. FERGUSON |
| Reg. No. | PE0008347 |
| Date | 07.11.25 |
| DA Number | - |

Beveridge Williams
Development & Infrastructure Consultants
Level 4, LPC House, Suite 4.05, 3 Fordham way, Oran Park NSW 2570
ph: 02 46255055
www.beveridgewilliams.com.au

| | |
|---|---|
| Project Details | WSU MILPERRA, LOT 1 IN DP101147 AND LOT 2 IN DP1291984<br>2 & 2A BULLECOURT AVENUE, MILPERRA |
| Drawing Title | C2 CONSERVATION AREA<br>LAYOUT PLAN & SECTIONS |

Sheet 162 of 162
Scale 1:500 @ A1

| Project Ref | Stage No | Drawing No | Rev |
|---|---|---|---|
| 2301879 | 321 | 850 | A |

C:\12DWS\data\MELSQL01\Eng - 321_3578\Drawings\2301879-321-850-C2.dwg