

SEPTEMBER, 2018

| DEVELOPMENT APPLICATION LISTING | |
|---|---|
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| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
|---|---|---|---|---|
| D | REVISED DA | IBM | SC | 17-09-18 |
| C | DA FOR APPROVAL | KK | SC | 17-03-17 |
| B | PRE DA - COORDINATION ISSUE | LK | SC | 15-03-17 |
| A | PRE DA - COORDINATION ISSUE | LK | SC | 02-12-16 |

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|---|---|---|---|---|

NORTH POINT

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CLIENT

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ARCHITECTS

RICE DAUBNEY

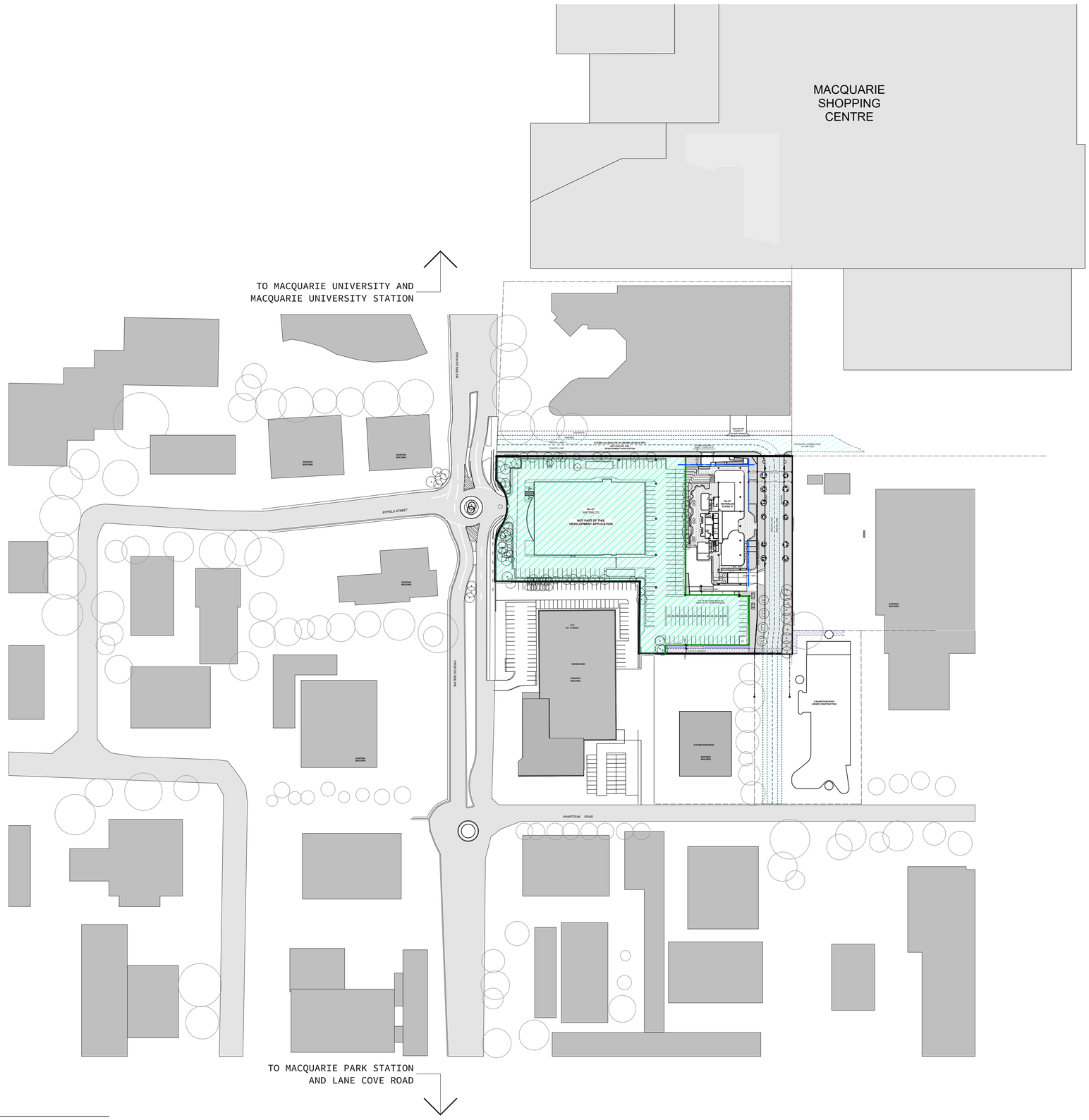
Level 1, 110 Walker Street, North Sydney NSW 2060, Australia
+61 2 9956 2666 | hdrrice@daubney.com | hdrinc.com
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ABN 56 880 304 993

PROJECT:
97 WATERLOO ROAD,
NORTH RYDE, NSW, 2113

DRAWING TITLE:
**DEVELOPMENT APPLICATION**
COVER PAGE

| SCALE: | DRAWN BY: | CHECKED: |
|---|---|---|
| 1:0.71 @ A1 | IBM | SC |
| **PROJECT NUMBER:** | **DRAWING NUMBER:** | **ISSUE:** |
| 265884 | DA01 | D |

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1 LOCATION PLAN
SITE PLAN 1:1250

| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
|---|---|---|---|---|
| D | DA AMENDED - ROAD 1 REALIGMENT. | IBM | SC | 21-08-18 |
| C | DA FOR APPROVAL | KK | SC | 17-03-17 |
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| A | PRE DA - COORDINATION ISSUE | LK | SC | 02-12-16 |

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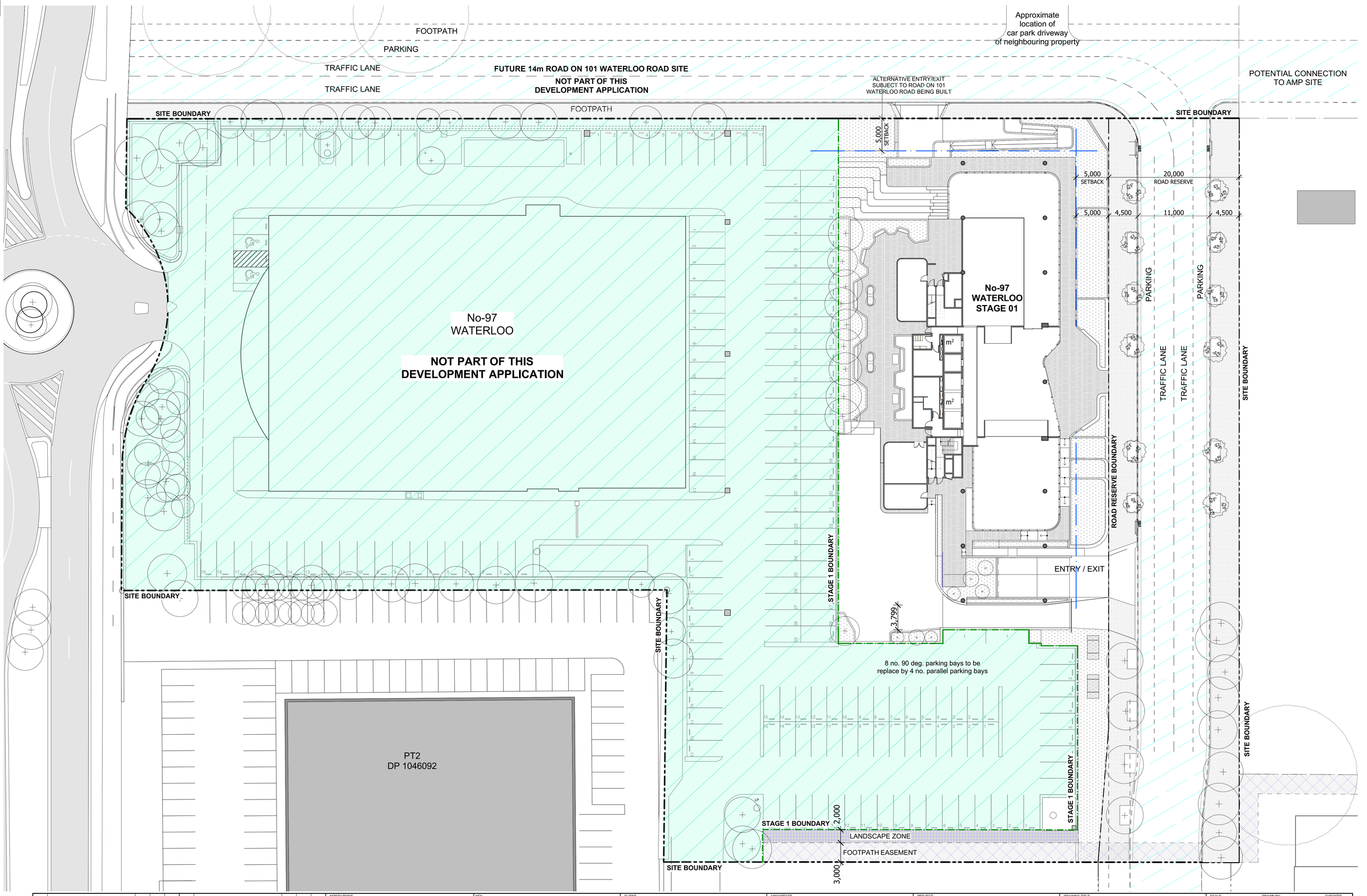
PROJECT:
97 WATERLOO ROAD,
NORTH RYDE, NSW, 2113

DRAWING TITLE:
**DEVELOPMENT APPLICATION**
LOCATION PLAN

| SCALE: | DRAWN BY: | CHECKED: |
|---|---|---|
| 1:1250 @ A1 | KK | SC |
| PROJECT NUMBER: | DRAWING NUMBER: | ISSUE: |
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M:\Projects\2015\15C 97 Waterloo Rd\11.0 BIM\11.06 Master\180620 STAGE2 POST DA 2ND AMENDED\15C 97 Waterloo Stage 02 post DA 2onAMEND.pln




| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
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| F | REVISED LOADING AREA | SC | SC | 06-11-18 |
| E | REVISED DA | IBM | SC | 17-09-18 |
| D | DA AMENDED - ROAD 1 REALIGMENT. | IBM | SC | 21-08-18 |
| C | DA FOR APPROVAL | KK | SC | 17-03-17 |
| B | PRE DA - COORDINATION ISSUE | LK | SC | 15-03-17 |
| A | PRE DA - COORDINATION ISSUE | LK | SC | 02-12-16 |

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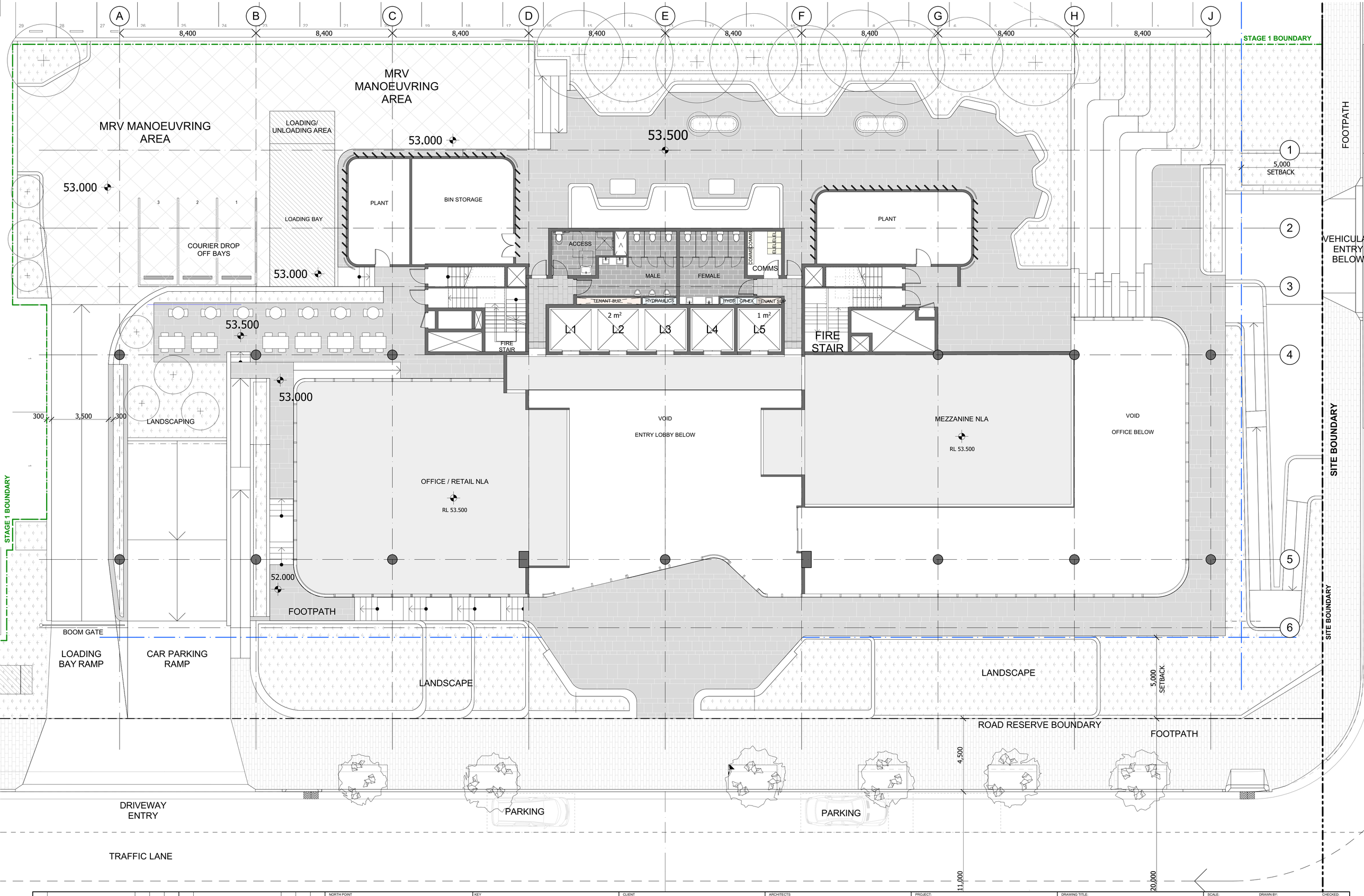
PROJECT:
97 WATERLOO ROAD,
NORTH RYDE, NSW, 2113

DRAWING TITLE:
**DEVELOPMENT APPLICATION**
SITE PLAN

| SCALE: | DRAWN BY: | CHECKED: |
|---|---|---|
| 1:250 @ A1 | IBM | SC |
| PROJECT NUMBER: | DRAWING NUMBER: | ISSUE: |
| 265884 | DA03 | F |

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| G | REVISED LOADING AREA | SC | SC | 06-11-18 |
| F | REVISED DA | IBM | SC | 17-09-18 |
| E | ISSUE FOR INFORMATION | JM | SC | 07-09-18 |
| D | DA AMENDED FOR APPROVAL | IBM | SC | 12-06-18 |
| C | DA FOR APPROVAL | KK | SC | 17-03-17 |
| B | PRE DA - COORDINATION ISSUE | LK | SC | 15-03-17 |
| A | PRE DA - COORDINATION ISSUE | LK | SC | 02-12-16 |

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The Rice Daubney Group (NSW) P/L as trustee for The Rice Daubney Trading Trust
ABN 56 880 304 993

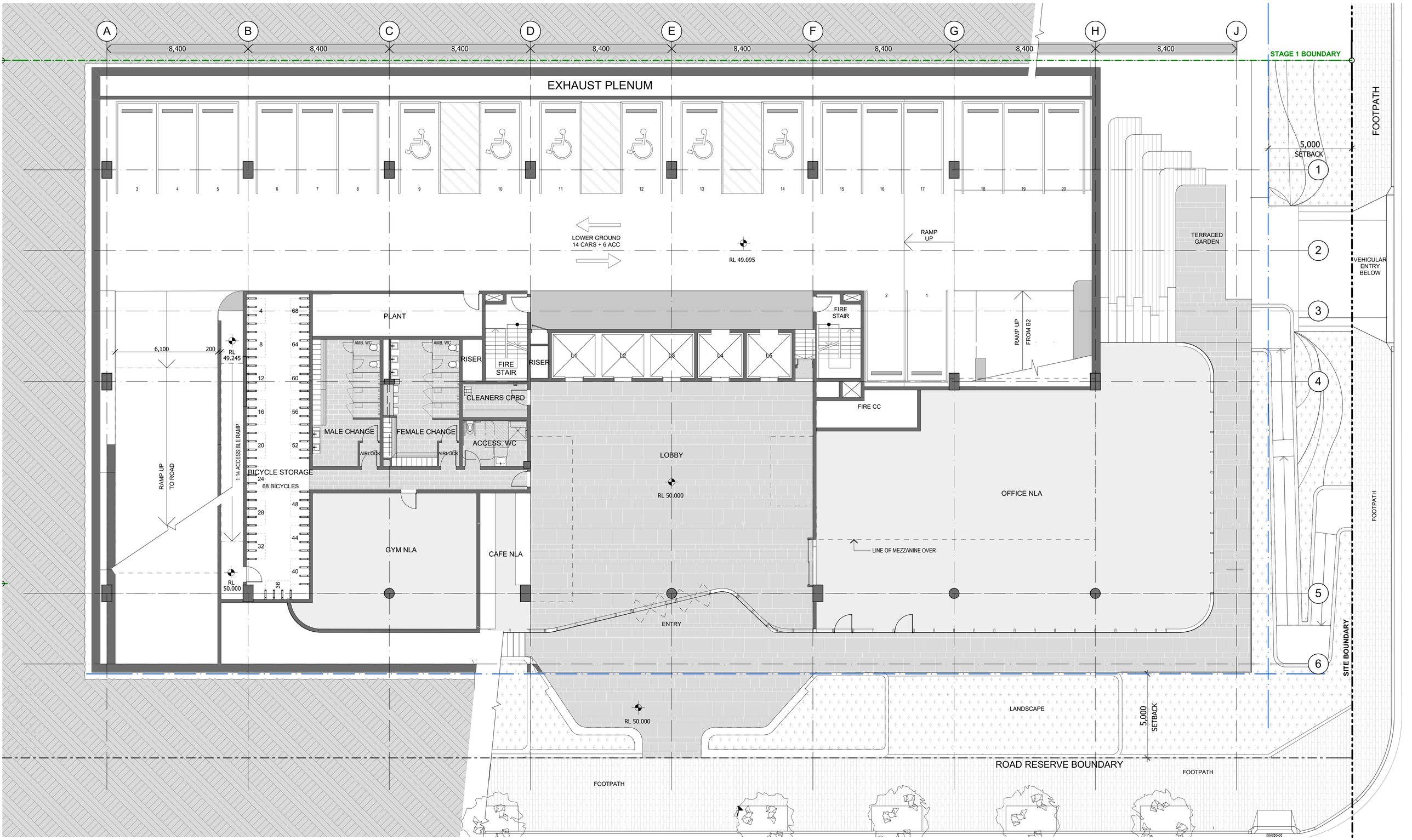
PROJECT:
97 WATERLOO ROAD,
NORTH RYDE, NSW, 2113

DRAWING TITLE:
**DEVELOPMENT APPLICATION**
GROUND FLOOR PLAN

| SCALE: | DRAWN BY: | CHECKED: |
|---|---|---|
| 1:100 @ A1 | JM | SC |
| PROJECT NUMBER: | DRAWING NUMBER: | ISSUE: |
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|---|---|---|---|---|
| F | REVISED DA | IBM | SC | 17-09-18 |
| E | ISSUE FOR INFORMATION | JM | SC | 07-09-18 |
| D | DA AMENDED FOR APPROVAL | IBM | SC | 12-06-18 |
| C | DA FOR APPROVAL | KK | SC | 17-03-17 |
| B | PRE DA - COORDINATION ISSUE | LK | SC | 15-03-17 |
| A | PRE DA - COORDINATION ISSUE | LK | SC | 02-12-16 |

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ABN 56 880 304 993

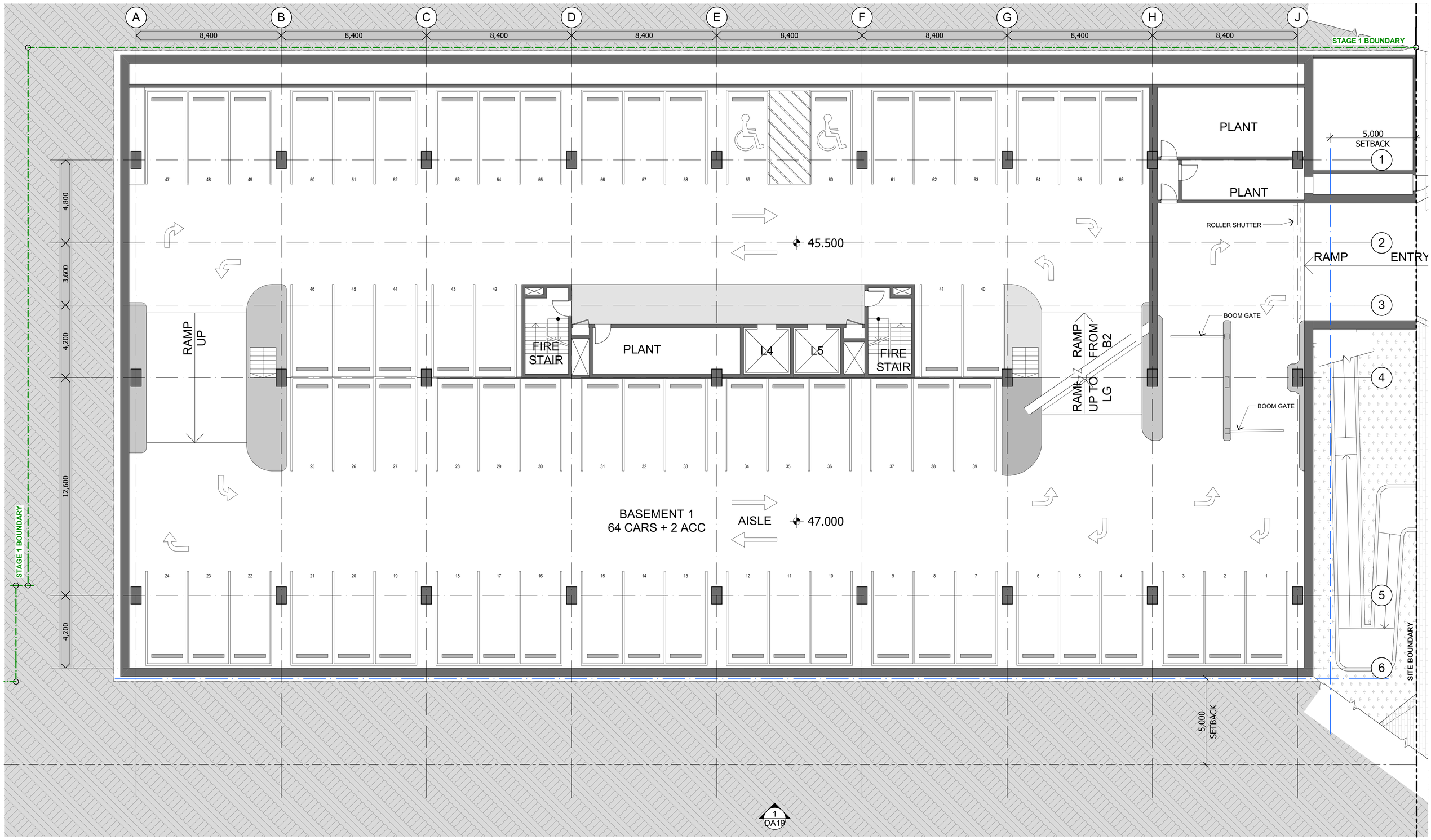
PROJECT:
97 WATERLOO ROAD,
NORTH RYDE, NSW, 2113

DRAWING TITLE:
**DEVELOPMENT APPLICATION**
LOWER GROUND FLOOR PLAN

| SCALE: | DRAWN BY: | CHECKED: |
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| D | DA AMENDED FOR APPROVAL | IBM | SC | 12-06-18 |
| C | DA FOR APPROVAL | KK | SC | 17-03-17 |
| B | PRE DA - COORDINATION ISSUE | LK | SC | 15-03-17 |
| A | PRE DA - COORDINATION ISSUE | LK | SC | 02-12-16 |

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ABN 56 880 304 993

PROJECT:

97 WATERLOO ROAD,
NORTH RYDE, NSW, 2113

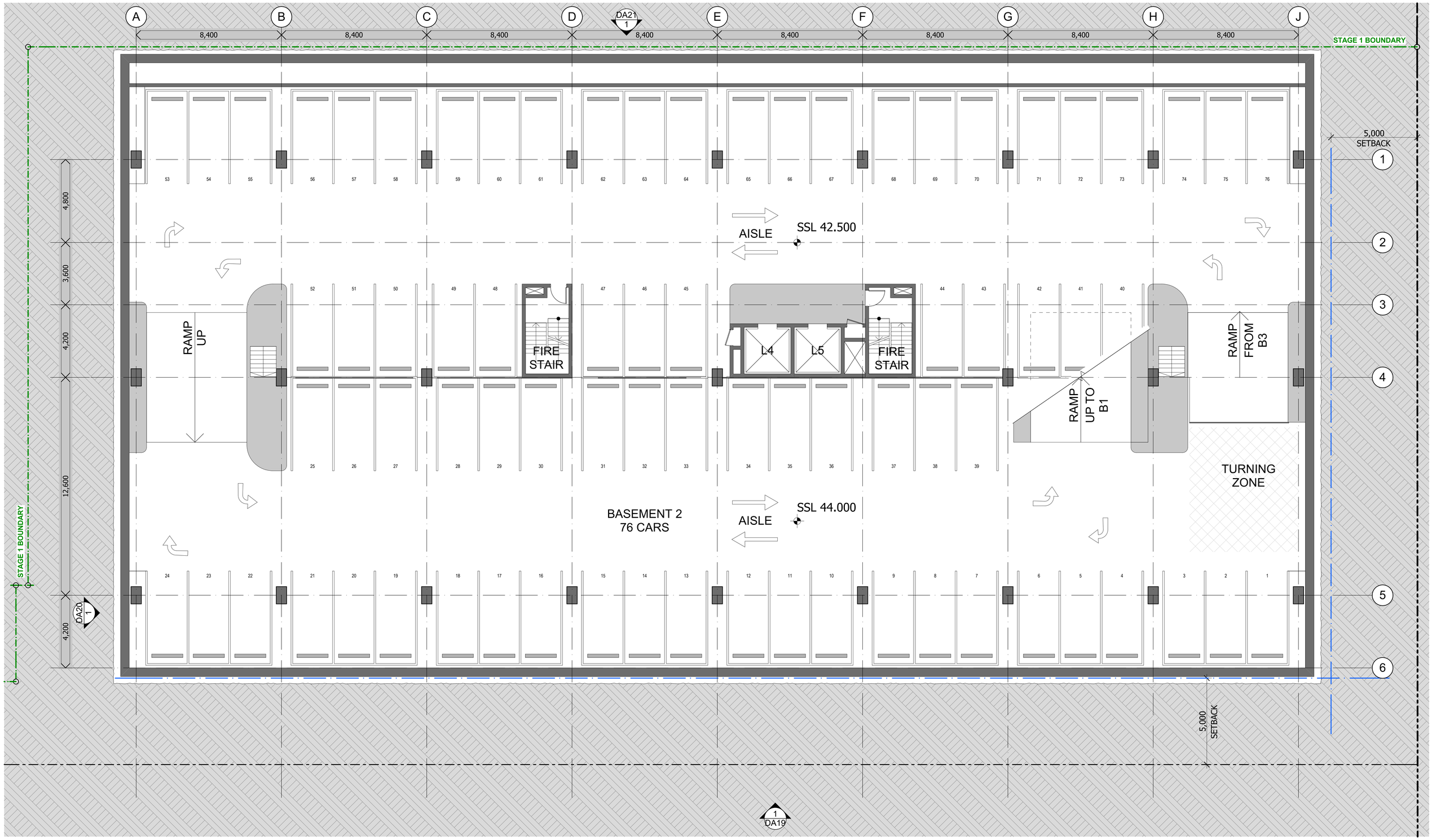
DRAWING TITLE:

**DEVELOPMENT APPLICATION**
BASEMENT 1

| SCALE: | DRAWN BY: | CHECKED: |
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| 1:100 @ A1 | KK | SC |
| PROJECT NUMBER: | DRAWING NUMBER: | ISSUE: |
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| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
|---|---|---|---|---|
| D | DA AMENDED FOR APPROVAL | IBM | SC | 12-06-18 |
| C | DA FOR APPROVAL | KK | SC | 17-03-17 |
| B | PRE DA - COORDINATION ISSUE | LK | SC | 15-03-17 |
| A | PRE DA - COORDINATION ISSUE | LK | SC | 02-12-16 |

| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
|---|---|---|---|---|

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ABN 56 880 304 993

PROJECT:

97 WATERLOO ROAD,
NORTH RYDE, NSW, 2113

DRAWING TITLE:

**DEVELOPMENT APPLICATION**
BASEMENT 2

| SCALE: | DRAWN BY: | CHECKED: |
|---|---|---|
| 1:100 @ A1 | KK | SC |
| PROJECT NUMBER: | DRAWING NUMBER: | ISSUE: |
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A B C D E F G H J

8,400 8,400 8,400 8,400 8,400 8,400 8,400 8,400

STAGE 1 BOUNDARY

5,000 SETBACK

1 2 3 4 5 6

4,800 3,600 4,200 12,600 4,200

STAGE 1 BOUNDARY

56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79

55 54 53 52 51 50 49 48 47 46 45 44 43

25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42

24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

RAMP UP

FIRE STAIR

AISLE

SSL 39.500

L4

L5

FIRE STAIR

RAMP FROM B4

RAMP UP TO B2

BASEMENT 3
79 CARS

AISLE

SSL 41.000

5,000 SETBACK

1
DA19

| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
|---|---|---|---|---|
| D | DA AMENDED FOR APPROVAL | IBM | SC | 12-06-18 |
| C | DA FOR APPROVAL | KK | SC | 17-03-17 |
| B | PRE DA - COORDINATION ISSUE | LK | SC | 15-03-17 |
| A | PRE DA - COORDINATION ISSUE | LK | SC | 02-12-16 |

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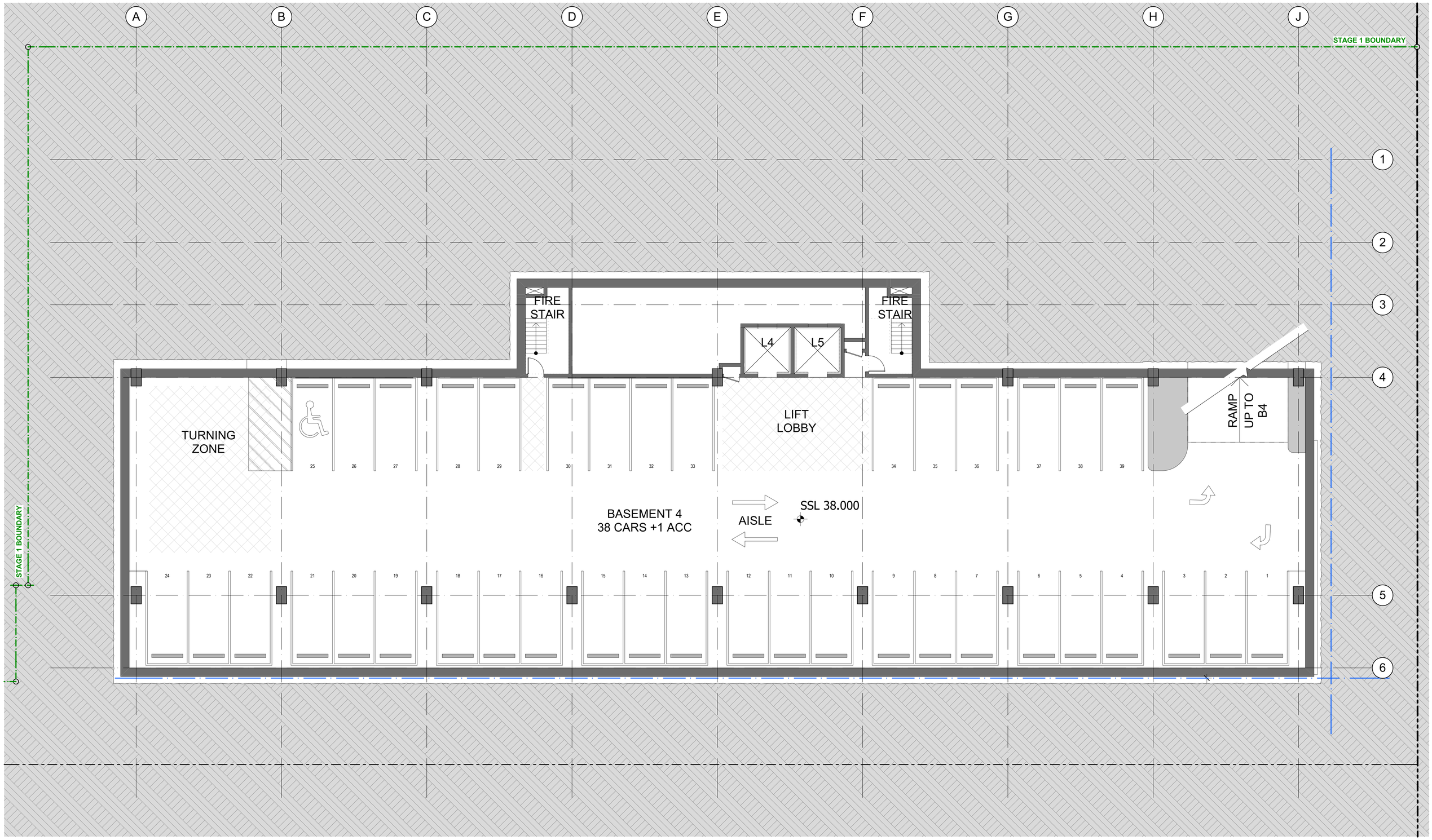
PROJECT:
97 WATERLOO ROAD,
NORTH RYDE, NSW, 2113

DRAWING TITLE:
**DEVELOPMENT APPLICATION**
BASEMENT 3

| SCALE: | DRAWN BY: | CHECKED: |
|---|---|---|
| 1:100 @ A1 | KK | SC |
| PROJECT NUMBER: | DRAWING NUMBER: | ISSUE: |
| 265884 | DA08 | D |

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| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
|---|---|---|---|---|
| D | DA AMENDED FOR APPROVAL | IBM | SC | 12-06-18 |
| C | DA FOR APPROVAL | KK | SC | 17-03-17 |
| B | PRE DA - COORDINATION ISSUE | LK | SC | 15-03-17 |
| A | PRE DA - COORDINATION ISSUE | LK | SC | 02-12-16 |

| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
|---|---|---|---|---|

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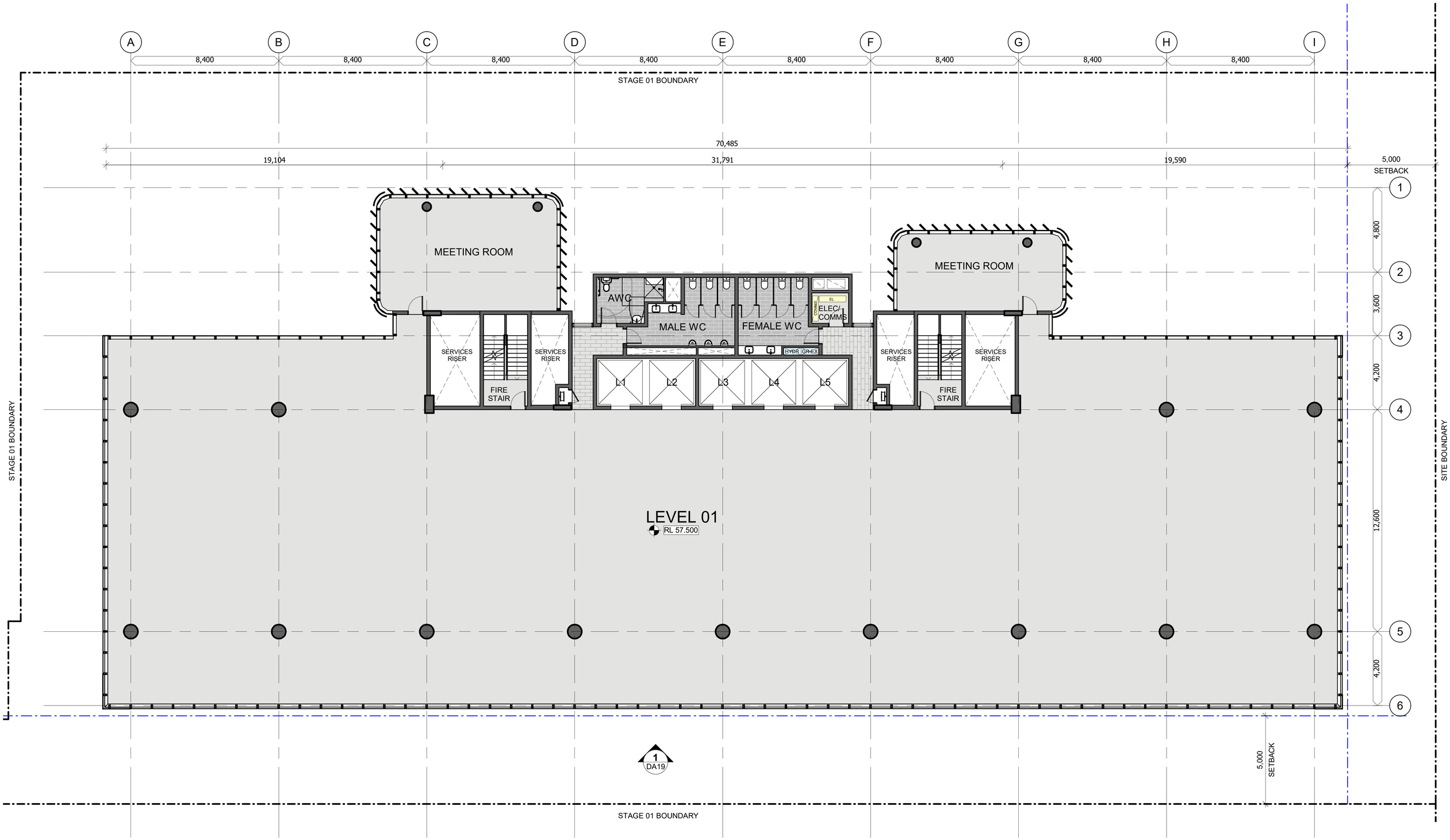
PROJECT:
97 WATERLOO ROAD,
NORTH RYDE, NSW, 2113

DRAWING TITLE:
**DEVELOPMENT APPLICATION**
BASEMENT 4

| SCALE: | DRAWN BY: | CHECKED: |
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| 1:100 @ A1 | KK | SC |
| PROJECT NUMBER: | DRAWING NUMBER: | ISSUE: |
| 265884 | DA09 | D |

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DEVELOPMENT APPLICATION ONLY
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WMK Architecture
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Sydney NSW 2000
Telephone 02 9299 0401
Facsimile 02 9299 0402
wmkarchitecture.com
ABN 25 082 956 929

**NOTES**

0 1 2 3 4m
1:100

| Issue | Description | Date |
|---|---|---|
| A | PRE DA - COORDINATION ISSUE | 02-12-16 |
| B | PRE DA - COORDINATION ISSUE | 15-03-17 |
| C | DA FOR APPROVAL | 17-03-17 |
| D | DA AMENDED FOR APPROVAL | 20-02-19 |

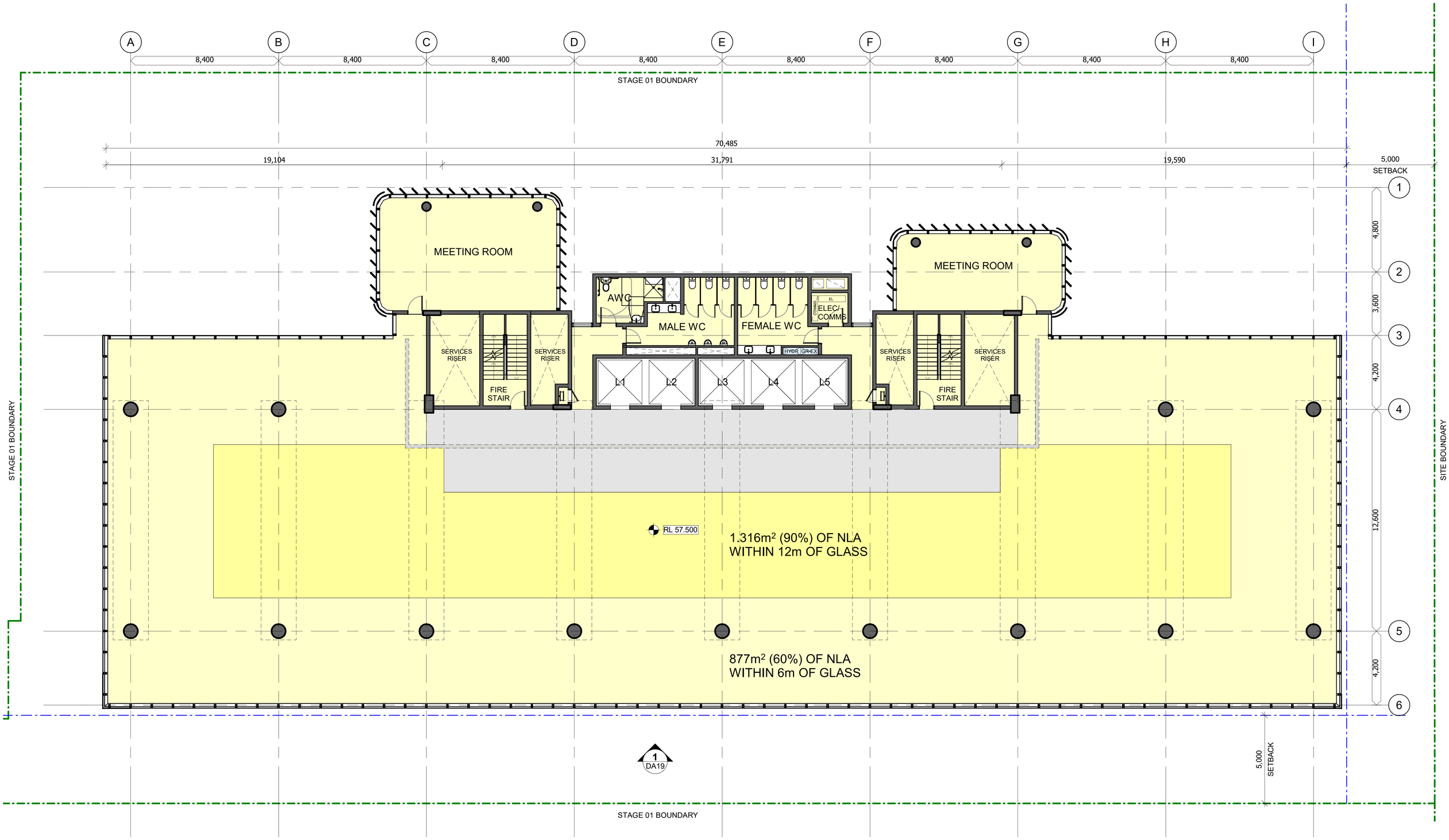
Client
Goodman
GROWTHBUILT

Project
MACQUARIE PARK
COMMERCIAL OFFICE
97 WATERLOO ROAD,
MACQUARIE PARK, NSW, 2113

Title
DEVELOPMENT APPLICATION
LEVEL 1 (LEVEL 2 SIM)

| | |
|---|---|
| Drawing No. DA10 | Issue D |
| Scale 1 : 100@A1 | Drawing Size A1 |
| Project No. 18255 | Drawn By VP |
| CAD Reference 2/20/2019 10:52:43 AM | |

Dimensioned Drawings to take precedence over scaling. Contractor to verify all dimensions on site before construction. All inconsistencies to be reported to the Architect immediately. This drawing and its contents remain the copyright of WMK Architecture Pty Ltd ©




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Telephone 02 9299 0401
Facsimile 02 9299 0402
wmkarchitecture.com
ABN 25 082 956 929

**NOTES**

0 1 2 3 4m
1:100

| Issue | Description | Date |
|---|---|---|
| A | PRE DA - COORDINATION ISSUE | 02-12-16 |
| B | PRE DA - COORDINATION ISSUE | 15-03-17 |
| C | DA FOR APPROVAL | 17-03-17 |
| D | DA AMENDED FOR APPROVAL | 20-02-19 |

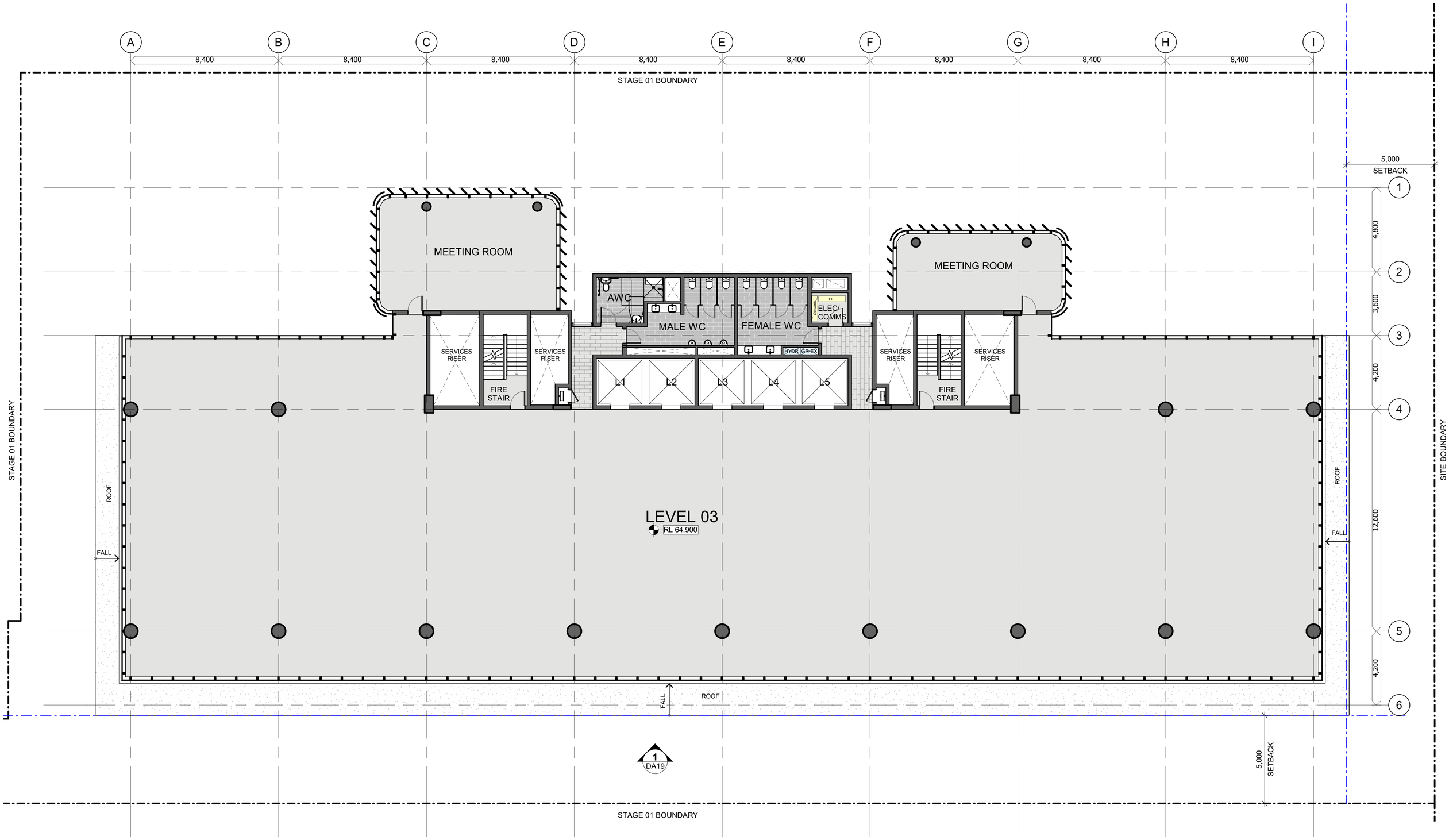
Client
Goodman
GROWTHBUILT

Project
MACQUARIE PARK
COMMERCIAL OFFICE
97 WATERLOO ROAD,
MACQUARIE PARK, NSW, 2113

Title
DEVELOPMENT APPLICATION
TYPICAL FLOORPLATE ANALYSIS

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| | |
|---|---|
| Drawing No. DA11 | Issue D |
| Scale 1 : 100@A1 | Drawing Size A1 |
| Project No. 18255 | Drawn By VP |
| CAD Reference 2/20/2019 10:52:47 AM | |




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**NOTES**

0 1 2 3 4m
1:100

| Issue | Description | Date |
|---|---|---|
| A | PRE DA - COORDINATION ISSUE | 02-12-16 |
| B | PRE DA - COORDINATION ISSUE | 15-03-17 |
| C | DA FOR APPROVAL | 17-03-17 |
| D | DA AMENDED FOR APPROVAL | 20-02-19 |

Client
Goodman
GROWTHBUILT

Project
MACQUARIE PARK
COMMERCIAL OFFICE
97 WATERLOO ROAD,
MACQUARIE PARK, NSW, 2113

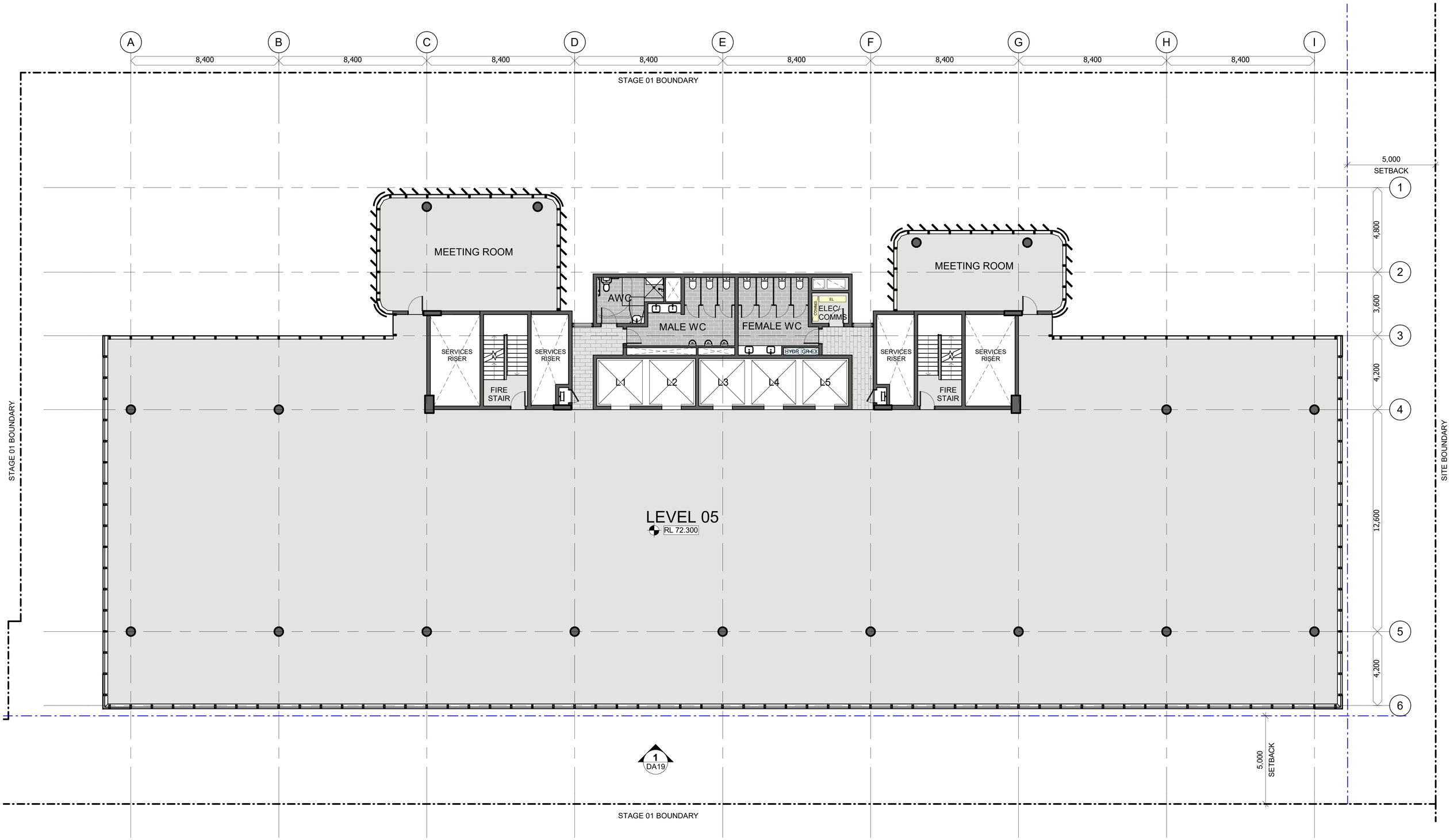
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Title
DEVELOPMENT APPLICATION
LEVEL 3 (LEVEL 4 SIM)

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| Drawing No. | Issue |
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| DA12 | D |
| **Scale** | **Drawing Size** |
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| **Project No.** | **Drawn By** |
| 18255 | VP |

**CAD Reference**
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WMK Architecture
L2 364 Kent Street
Sydney NSW 2000
Telephone 02 9299 0401
Facsimile 02 9299 0402
wmkarchitecture.com
ABN 25 082 956 929

**NOTES**

0 1 2 3 4m
1:100

| Issue | Description | Date |
|---|---|---|
| A | PRE DA - COORDINATION ISSUE | 02-12-16 |
| B | PRE DA - COORDINATION ISSUE | 15-03-17 |
| C | DA FOR APPROVAL | 17-03-17 |
| D | DA AMENDED FOR APPROVAL | 20-02-19 |

Client
Goodman
GROWTHBUILT

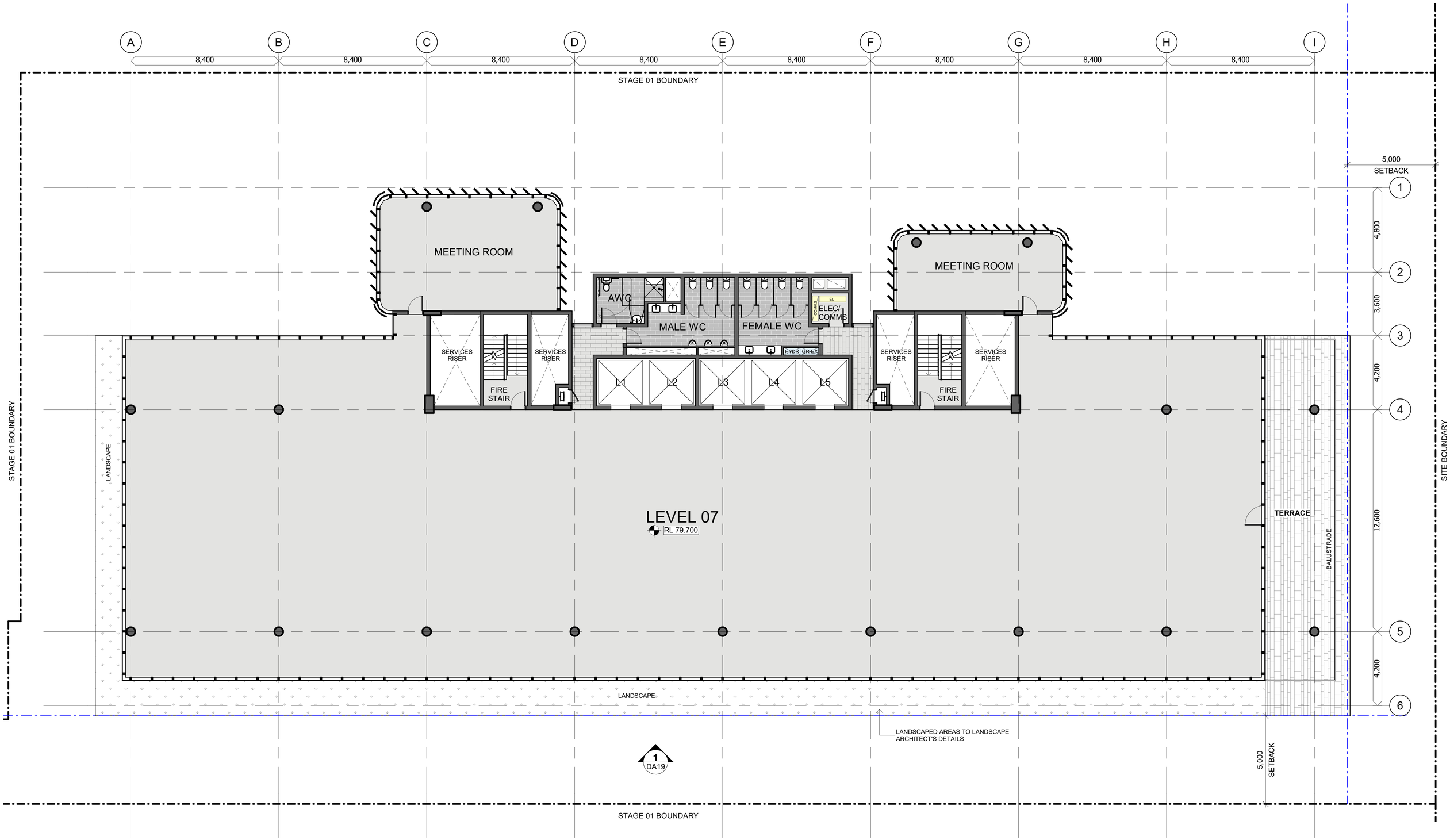
Project
MACQUARIE PARK
COMMERCIAL OFFICE
97 WATERLOO ROAD,
MACQUARIE PARK, NSW, 2113

Title
DEVELOPMENT APPLICATION
LEVEL 5 (LEVEL 6 SIM)

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| | |
|---|---|
| Drawing No. DA13 | Issue D |
| Scale 1 : 100@A1 | Drawing Size A1 |
| Project No. 18255 | Drawn By VP |
| CAD Reference | |

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wmkarchitecture.com
ABN 25 082 956 929

**NOTES**

0 1 2 3 4m
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| Issue | Description | Date |
|---|---|---|
| A | PRE DA - COORDINATION ISSUE | 02-12-16 |
| B | PRE DA - COORDINATION ISSUE | 15-03-17 |
| C | DA FOR APPROVAL | 17-03-17 |
| D | DA AMENDED FOR APPROVAL | 20-02-19 |

Client
Goodman
GROWTHBUILT

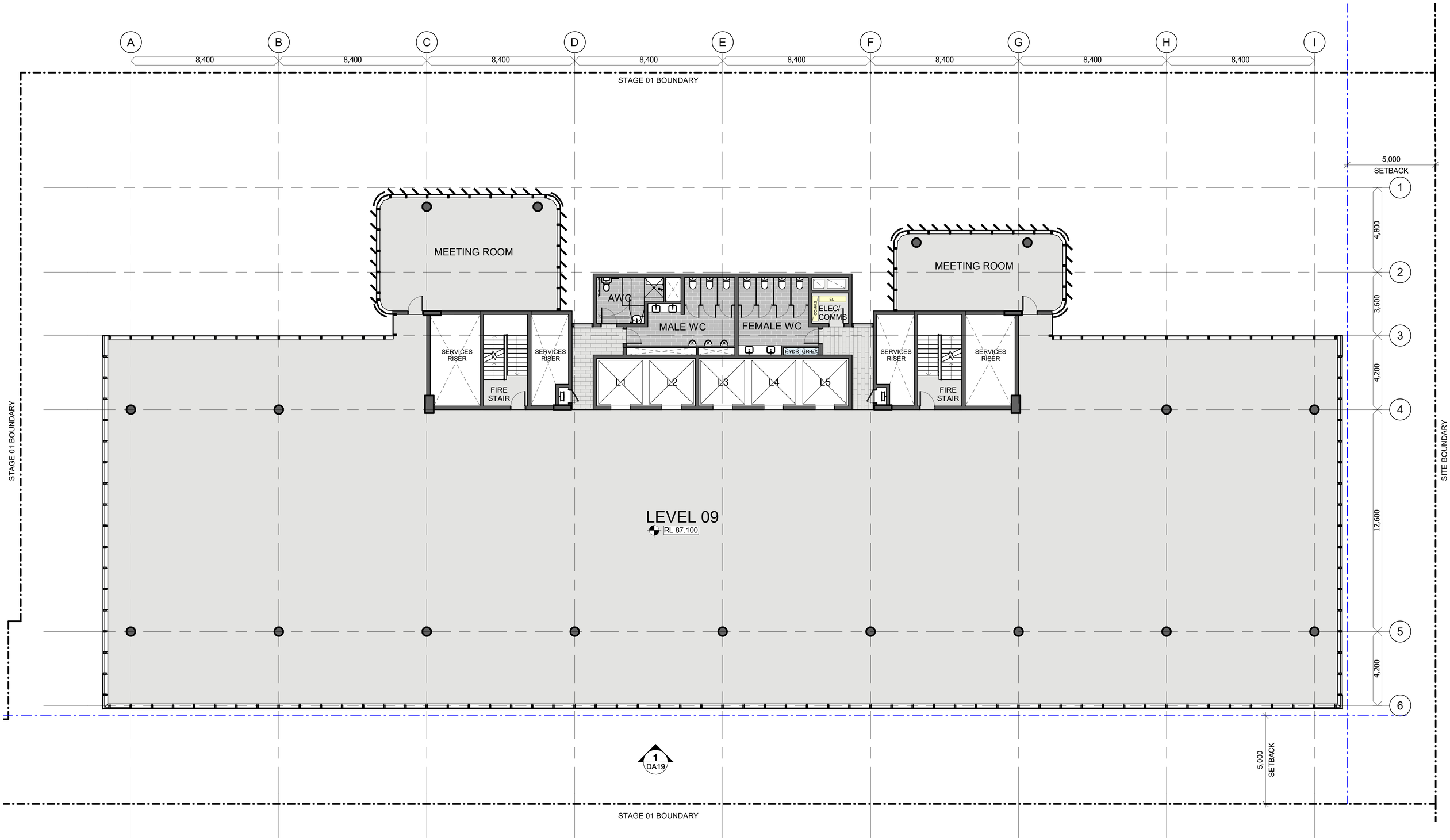
Project
MACQUARIE PARK
COMMERCIAL OFFICE
97 WATERLOO ROAD,
MACQUARIE PARK, NSW, 2113

Title
DEVELOPMENT APPLICATION
LEVEL 7 (LEVEL 8 SIM)

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| Drawing No. | Issue |
|---|---|
| DA14 | D |
| **Scale** | **Drawing Size** |
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| **Project No.** | **Drawn By** |
| 18255 | VP |

**CAD Reference**
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Telephone 02 9299 0401
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wmkarchitecture.com
ABN 25 082 956 929

**NOTES**

0 1 2 3 4m
1:100

| Issue | Description | Date |
|---|---|---|
| A | PRE DA - COORDINATION ISSUE | 02-12-16 |
| B | PRE DA - COORDINATION ISSUE | 15-03-17 |
| C | DA FOR APPROVAL | 17-03-17 |
| D | DA AMENDED FOR APPROVAL | 20-02-19 |

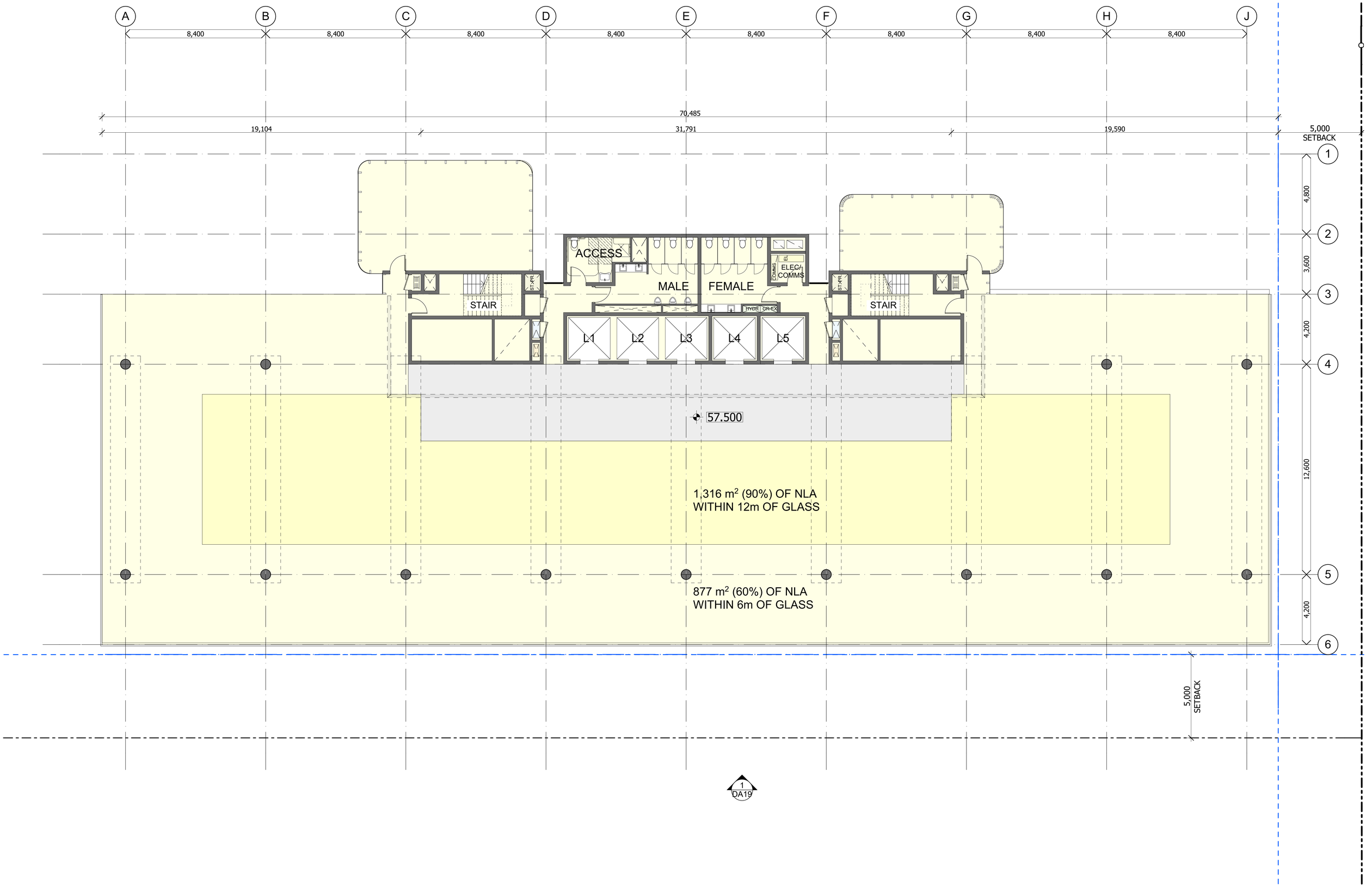
Client
Goodman
GROWTHBUILT

Project
MACQUARIE PARK
COMMERCIAL OFFICE
97 WATERLOO ROAD,
MACQUARIE PARK, NSW, 2113

Title
DEVELOPMENT APPLICATION
LEVEL 9 (LEVEL 10 SIM)

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| Scale 1 : 100@A1 | Drawing Size A1 |
| Project No. 18255 | Drawn By VP |
| CAD Reference 2/20/2019 10:53:02 AM | |




| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
|---|---|---|---|---|
| C | DA FOR APPROVAL | KK | SC | 17-03-17 |
| B | PRE DA - COORDINATION ISSUE | LK | SC | 15-03-17 |
| A | PRE DA - COORDINATION ISSUE | LK | SC | 02-12-16 |

NORTH POINT

KEY

CLIENT

GOODMAN

LEVEL 17
60 CASTLEREAGH STREET
SYDNEY NSW 2000

P: 02 9230 7400
info@goodman.com

ARCHITECTS

RICE DAUBNEY

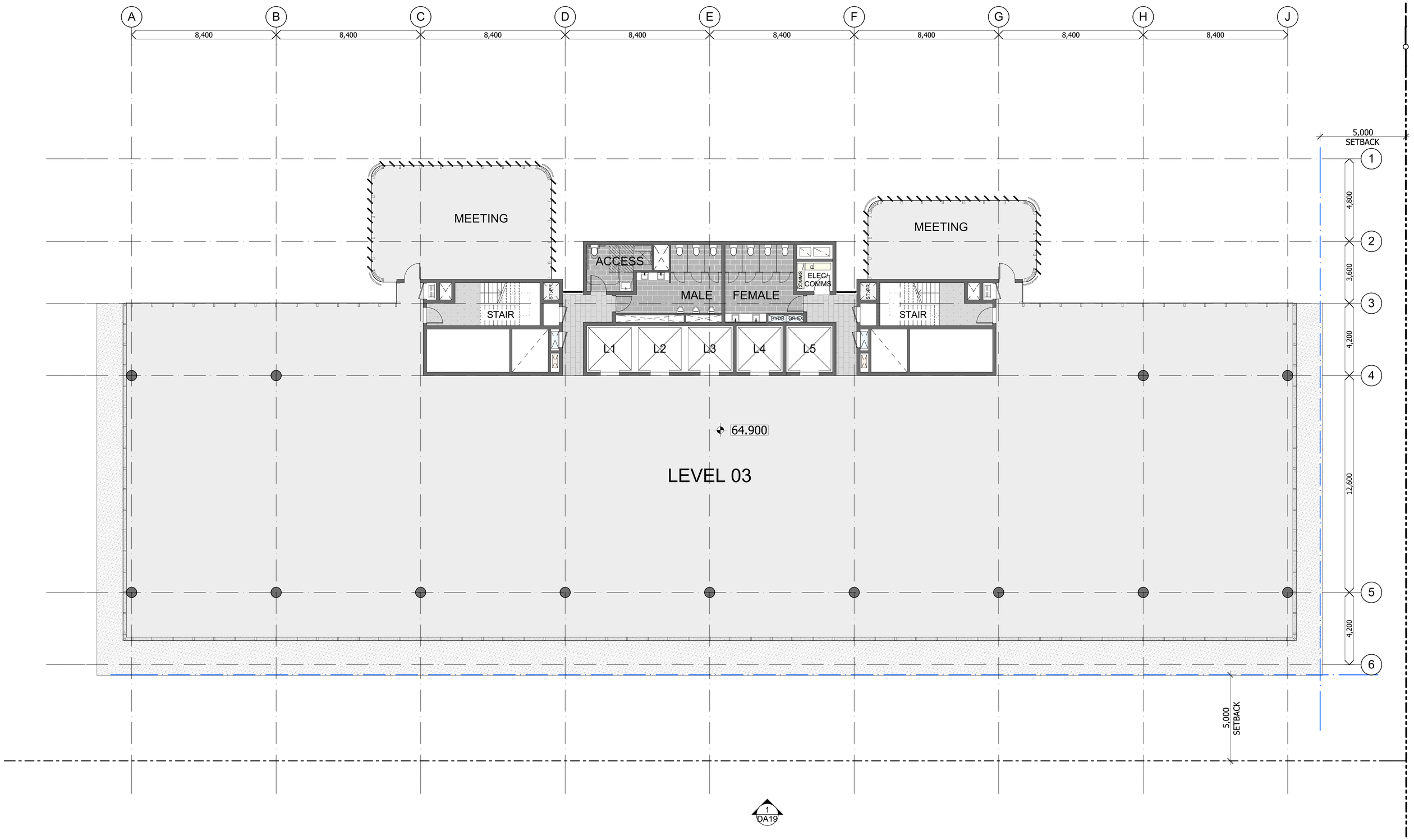
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PROJECT:
97 WATERLOO ROAD,
NORTH RYDE, NSW, 2113

DRAWING TITLE:
**DEVELOPMENT APPLICATION**
TYPICAL FLOORPLATE ANALYSIS

| SCALE: | DRAWN BY: | CHECKED: |
|---|---|---|
| 1:100 @ A1 | KK | SC |
| PROJECT NUMBER: | DRAWING NUMBER: | ISSUE: |
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| C | DA FOR APPROVAL | KK | SC | 17-03-17 |
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| A | PRE DA - COORDINATION ISSUE | LK | SC | 02-12-16 |

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|---|---|---|---|---|

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60 CASTLEREAGH STREET
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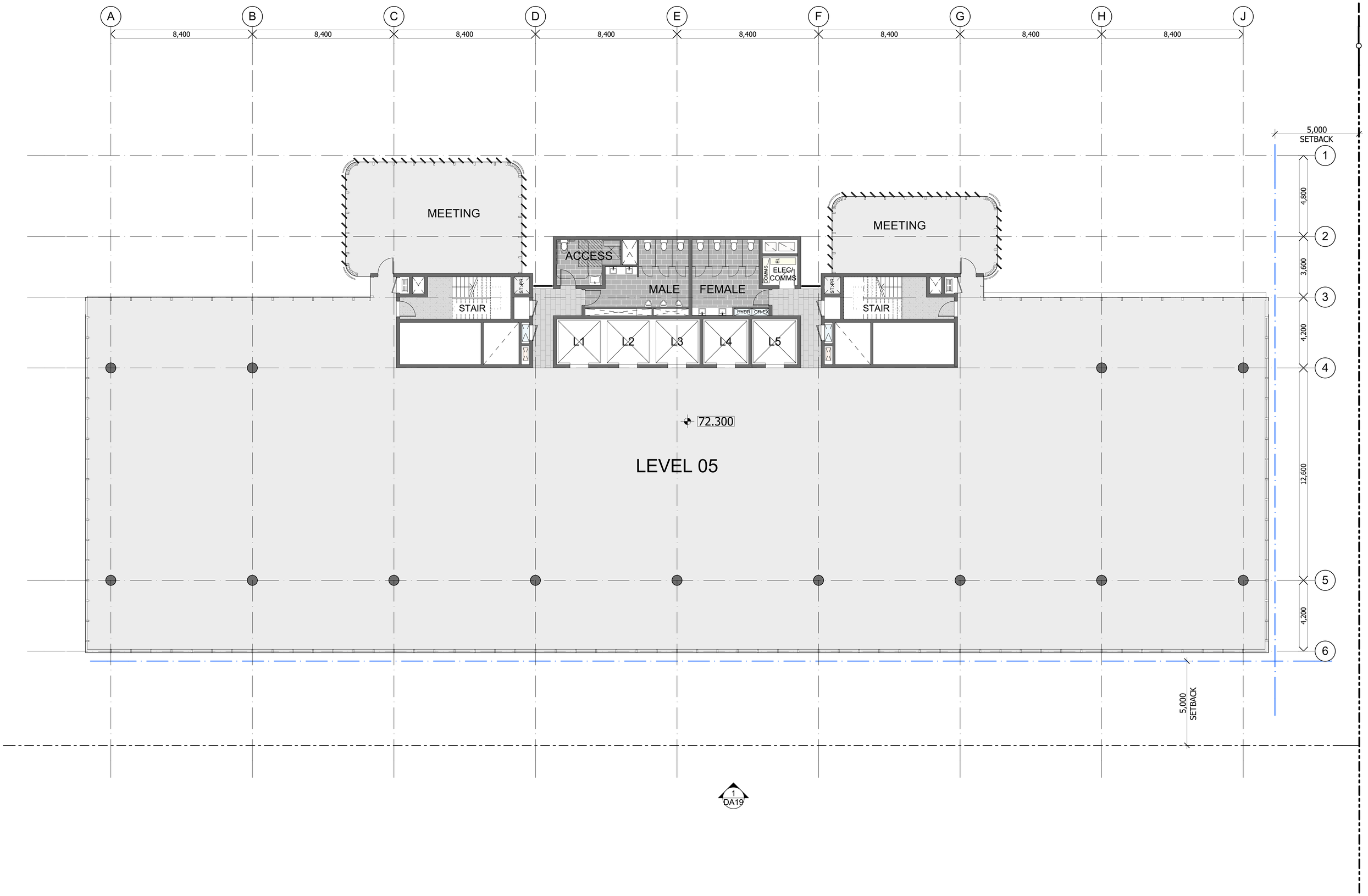
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DRAWING TITLE:
**DEVELOPMENT APPLICATION**
LEVEL 3 (LEVEL 4 SIM)

| SCALE: | DRAWN BY: | CHECKED: |
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| C | DA FOR APPROVAL | KK | SC | 17-03-17 |
| B | PRE DA - COORDINATION ISSUE | LK | SC | 15-03-17 |
| A | PRE DA - COORDINATION ISSUE | LK | SC | 02-12-16 |

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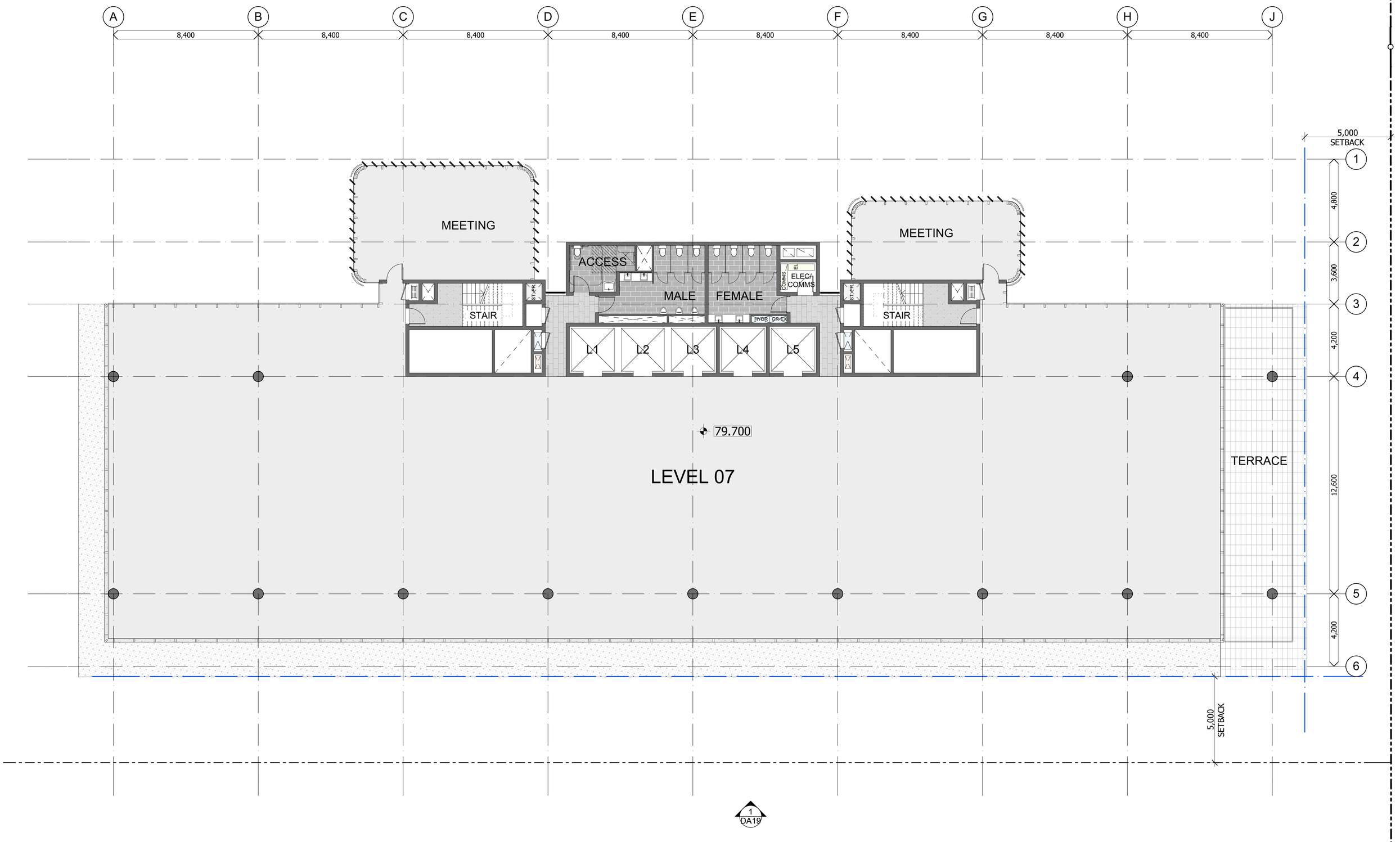
PROJECT:
97 WATERLOO ROAD,
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DRAWING TITLE:
**DEVELOPMENT APPLICATION**
LEVEL 5 (LEVEL 6 SIM)

| SCALE: | DRAWN BY: | CHECKED: |
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1
DA19

| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
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| B | PRE DA - COORDINATION ISSUE | LK | SC | 15-03-17 |
| A | PRE DA - COORDINATION ISSUE | LK | SC | 02-12-16 |

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60 CASTLEREAGH STREET
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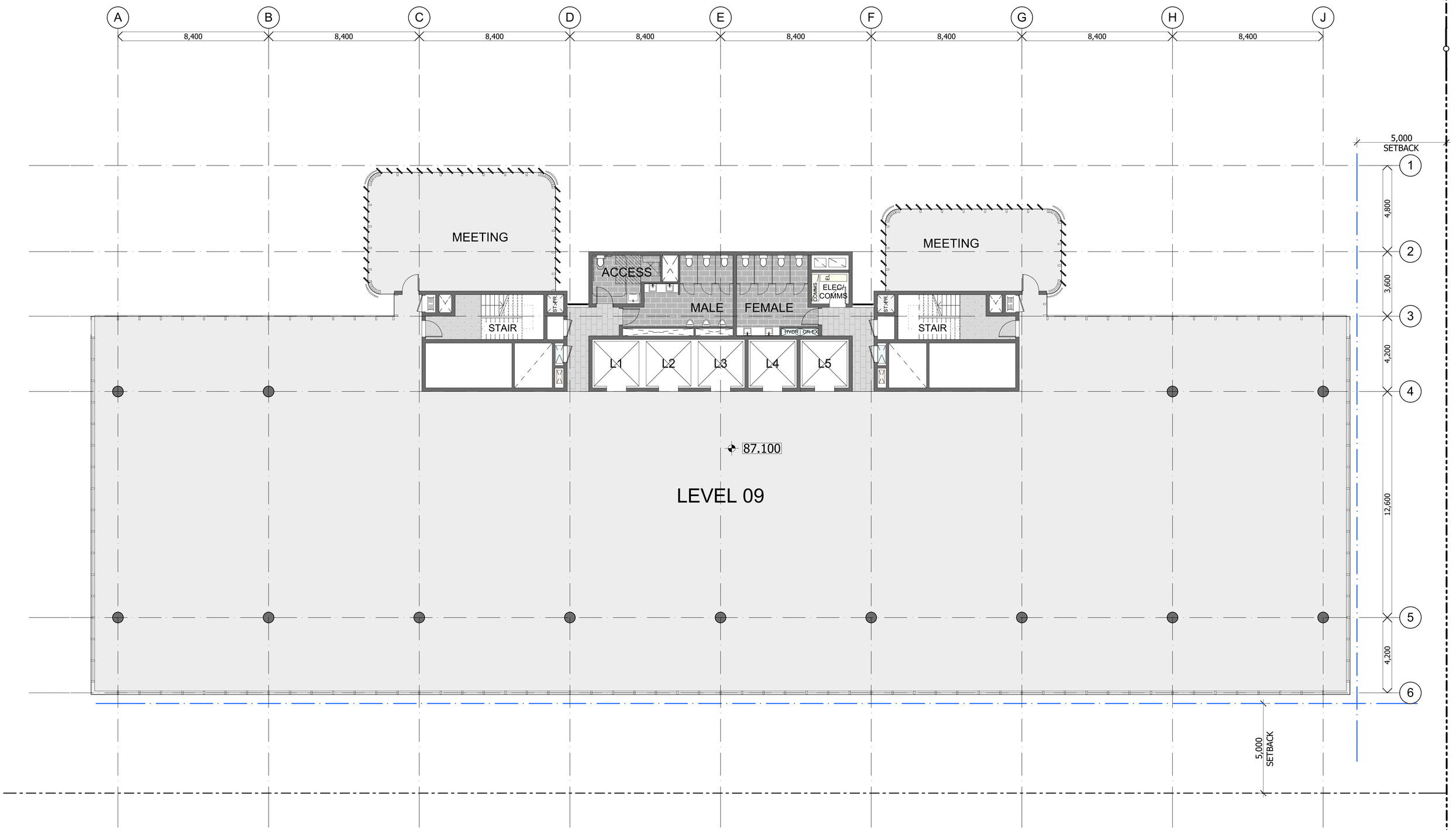
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DRAWING TITLE:
**DEVELOPMENT APPLICATION**
LEVEL 7 (LEVEL 8 SIM)

| SCALE: | DRAWN BY: | CHECKED: |
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| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
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| C | DA FOR APPROVAL | KK | SC | 17-03-17 |
| B | PRE DA - COORDINATION ISSUE | LK | SC | 15-03-17 |
| A | PRE DA - COORDINATION ISSUE | LK | SC | 02-12-16 |

| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
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60 CASTLEREAGH STREET
SYDNEY NSW 2000

P: 02 9230 7400
info@goodman.com

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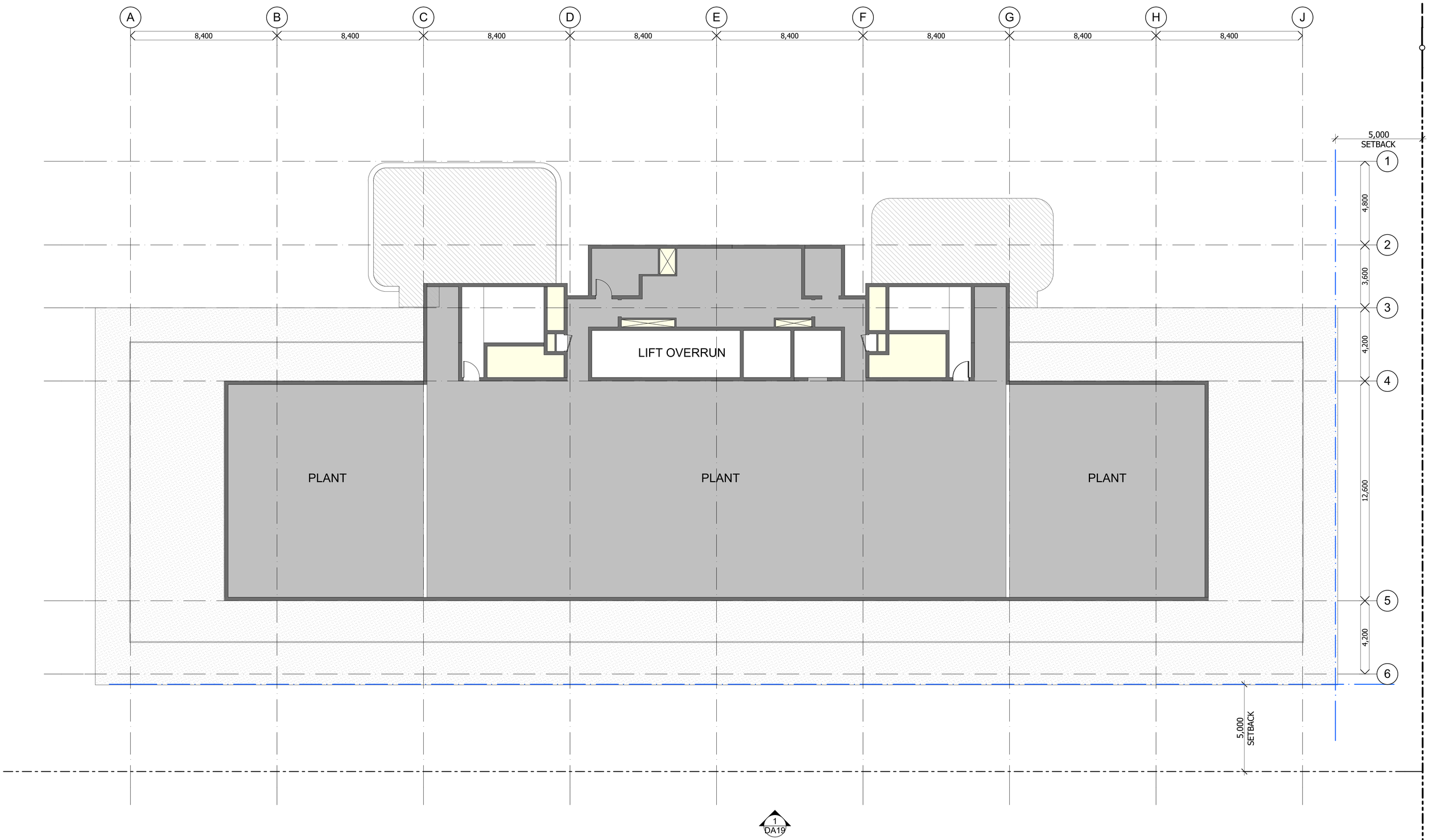
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PROJECT:
97 WATERLOO ROAD,
NORTH RYDE, NSW, 2113

DRAWING TITLE:
**DEVELOPMENT APPLICATION**
LEVEL 9 (LEVEL 10 SIM)

| SCALE: | DRAWN BY: | CHECKED: |
|---|---|---|
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| PROJECT NUMBER: | DRAWING NUMBER: | ISSUE: |
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| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
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| C | DA FOR APPROVAL | KK | SC | 17-03-17 |
| B | PRE DA - COORDINATION ISSUE | LK | SC | 15-03-17 |
| A | PRE DA - COORDINATION ISSUE | LK | SC | 02-12-16 |

| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
|---|---|---|---|---|

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GOODMAN

LEVEL 17
60 CASTLEREAGH STREET
SYDNEY NSW 2000

P: 02 9230 7400
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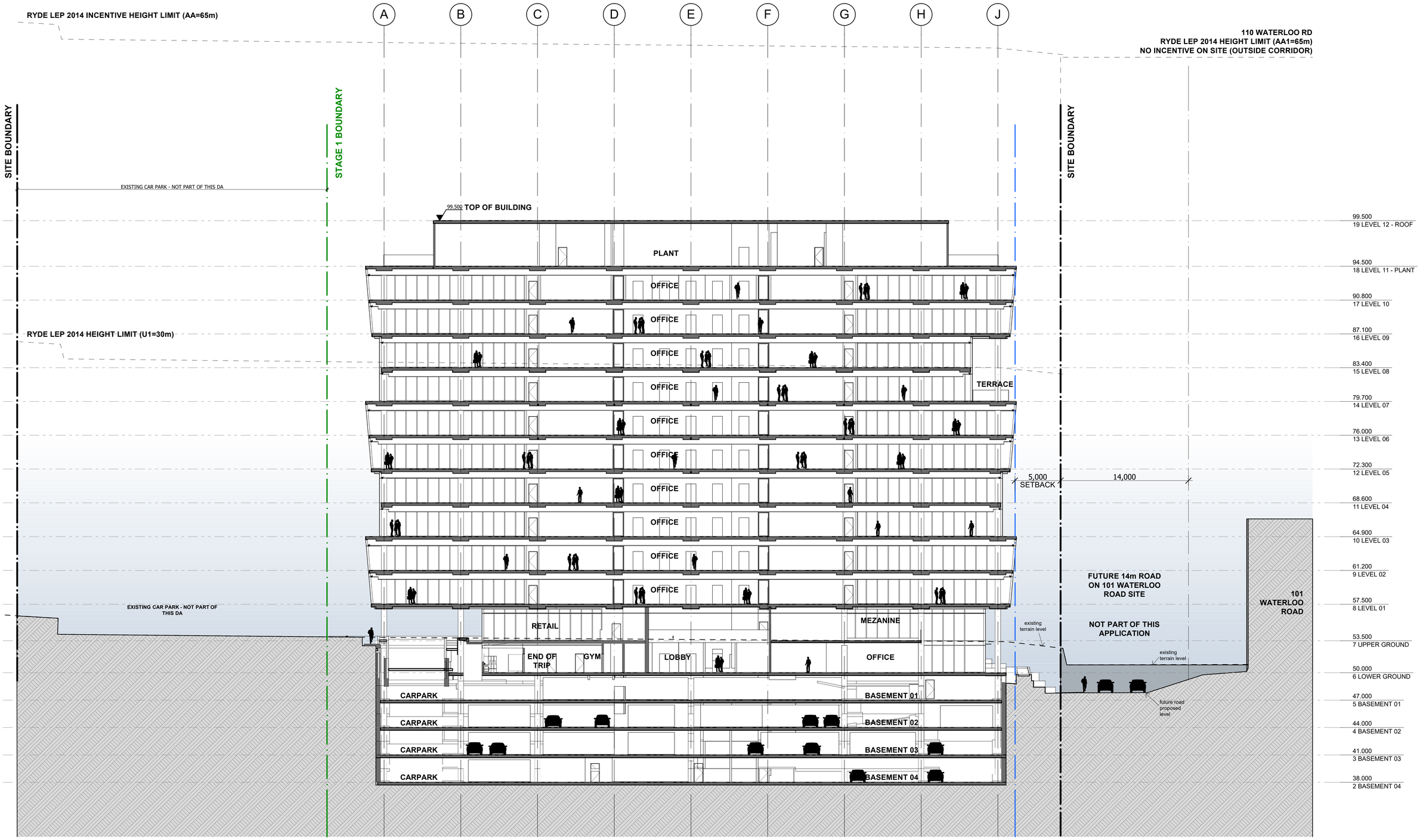
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DRAWING TITLE:
**DEVELOPMENT APPLICATION**
LEVEL 11 - PLANT

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| PROJECT NUMBER: | DRAWING NUMBER: | ISSUE: |
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1 SECTION
SECTION DETAIL - LONGITUDONAL

1:200

| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
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| D | DA RESPONSE TO UDRP LDA2017/0096 | IBM | SC | 04-07-18 |
| C | DA FOR APPROVAL | KK | SC | 17-03-17 |
| B | PRE DA - COORDINATION ISSUE | LK | SC | 15-03-17 |
| A | PRE DA - COORDINATION ISSUE | LK | SC | 02-12-16 |

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KEY

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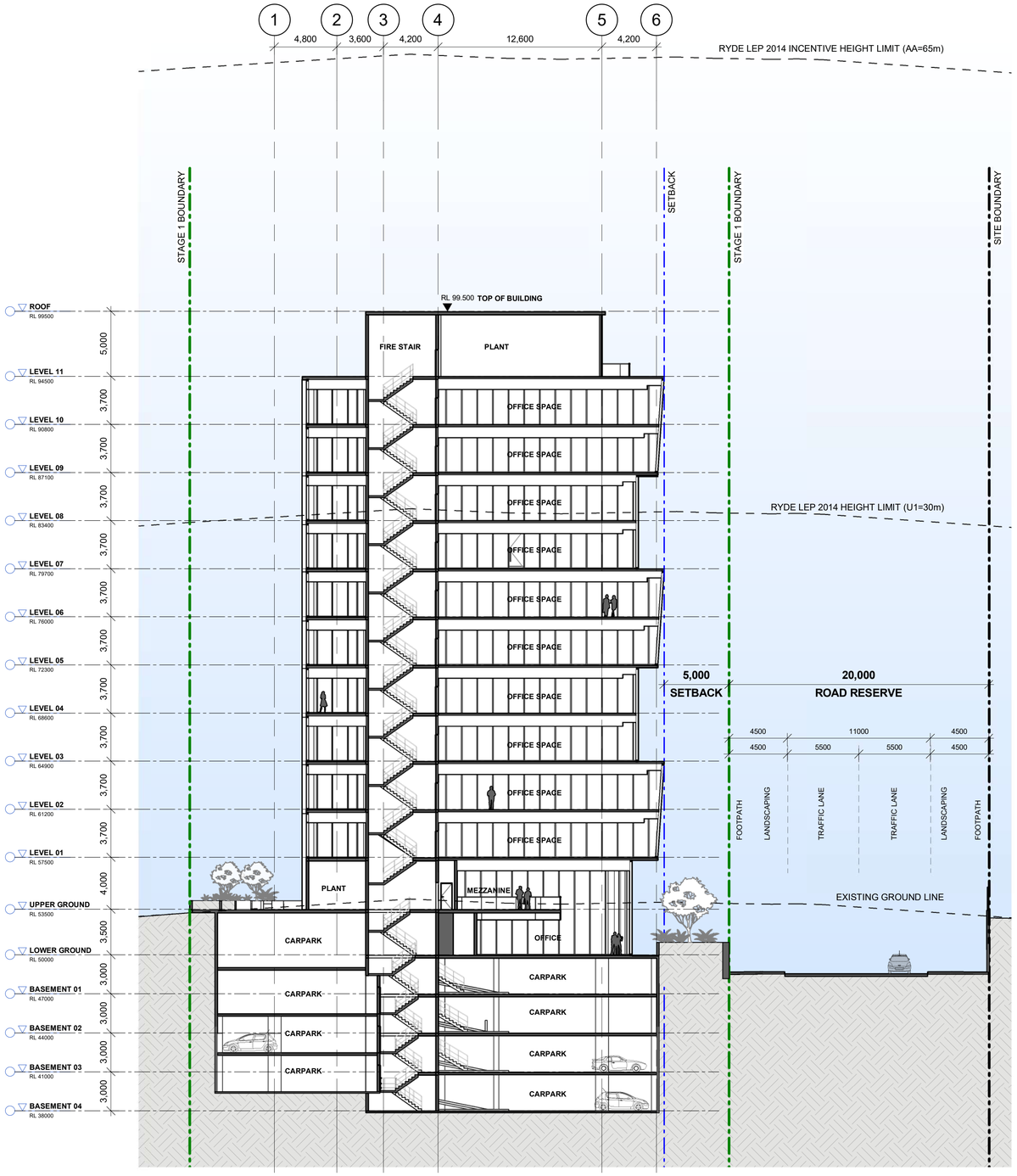
PROJECT:
97 WATERLOO ROAD,
NORTH RYDE, NSW, 2113

DRAWING TITLE:
**DEVELOPMENT APPLICATION**
LONG SECTION

| SCALE: | DRAWN BY: | CHECKED: |
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| 1:200 @ A1 | KK | SC |
| PROJECT NUMBER: | DRAWING NUMBER: | ISSUE: |
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1 SECTION DETAIL
SHORT SECTION 1 SCALE 1 : 200

2 SECTION DETAIL
SHORT SECTION 2 SCALE 1 : 200

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WMK Architecture
L2 364 Kent Street
Sydney NSW 2000
Telephone 02 9299 0401
Facsimile 02 9299 0402
wmkarchitecture.com
ABN 25 082 956 929

**NOTES**

0 2 4 6 8m
1:200

| Issue | Description | Date |
|---|---|---|
| A | PRE DA - COORDINATION ISSUE | 02-12-16 |
| B | PRE DA - COORDINATION ISSUE | 15-03-17 |
| C | DA FOR APPROVAL | 17-03-17 |
| D | DA AMENDED FOR APPROVAL | 12-06-18 |
| E | DA RESPONSE TO UDRP LDA2017/0096 | 04-07-18 |
| F | DA AMENDED FOR APPROVAL | 20-02-19 |

Client
Goodman
GROWTHBUILT

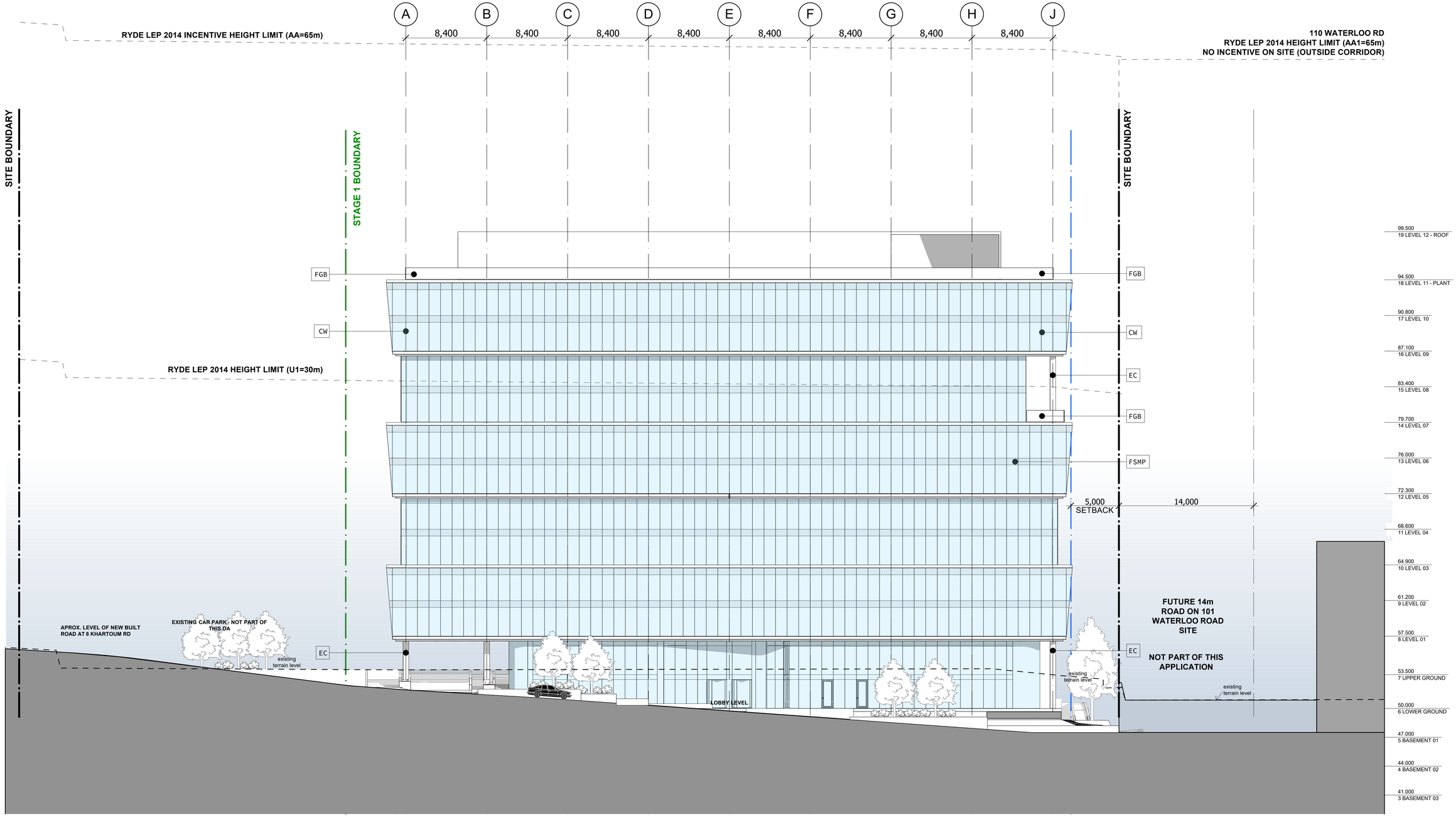
Project
MACQUARIE PARK
COMMERCIAL OFFICE
97 WATERLOO ROAD,
MACQUARIE PARK, NSW, 2113

Title
DEVELOPMENT APPLICATION
SHORT SECTIONS

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| Drawing No. | Issue |
|---|---|
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| **Scale** | **Drawing Size** |
| 1 : 200@A1 | A1 |
| **Project No.** | **Drawn By** |
| 18255 | VP |

**CAD Reference**
2/20/2019 10:53:11 AM




1 ELEVATION
NORTH ELEVATION 1:200

**EXTERNAL MATERIAL LEGEND:**

| | |
|---|---|
| CW | CURTAIN WALL GLASS FACADE |
| ZMP | ZINC MESH FACADE PANELS |
| RB | RENDERED BLOCKWORK RETAINING WALLS |
| EHL | EXTRUDED HORIZONTAL SUNSHADING LOUVRE |
| FSMP | FACADE SPANDREL PANEL |
| FGB | FRAMELESS GLASS BALUSTRADE |
| EC | EXPOSED CONCRETE |

| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
|---|---|---|---|---|
| D | REVISED DA | IBM | SC | 17-09-18 |
| C | DA FOR APPROVAL | KK | SC | 17-03-17 |
| B | PRE DA - COORDINATION ISSUE | LK | SC | 15-03-17 |
| A | PRE DA - COORDINATION ISSUE | LK | SC | 02-12-16 |

NORTH POINT

KEY

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ABN 56 880 304 993

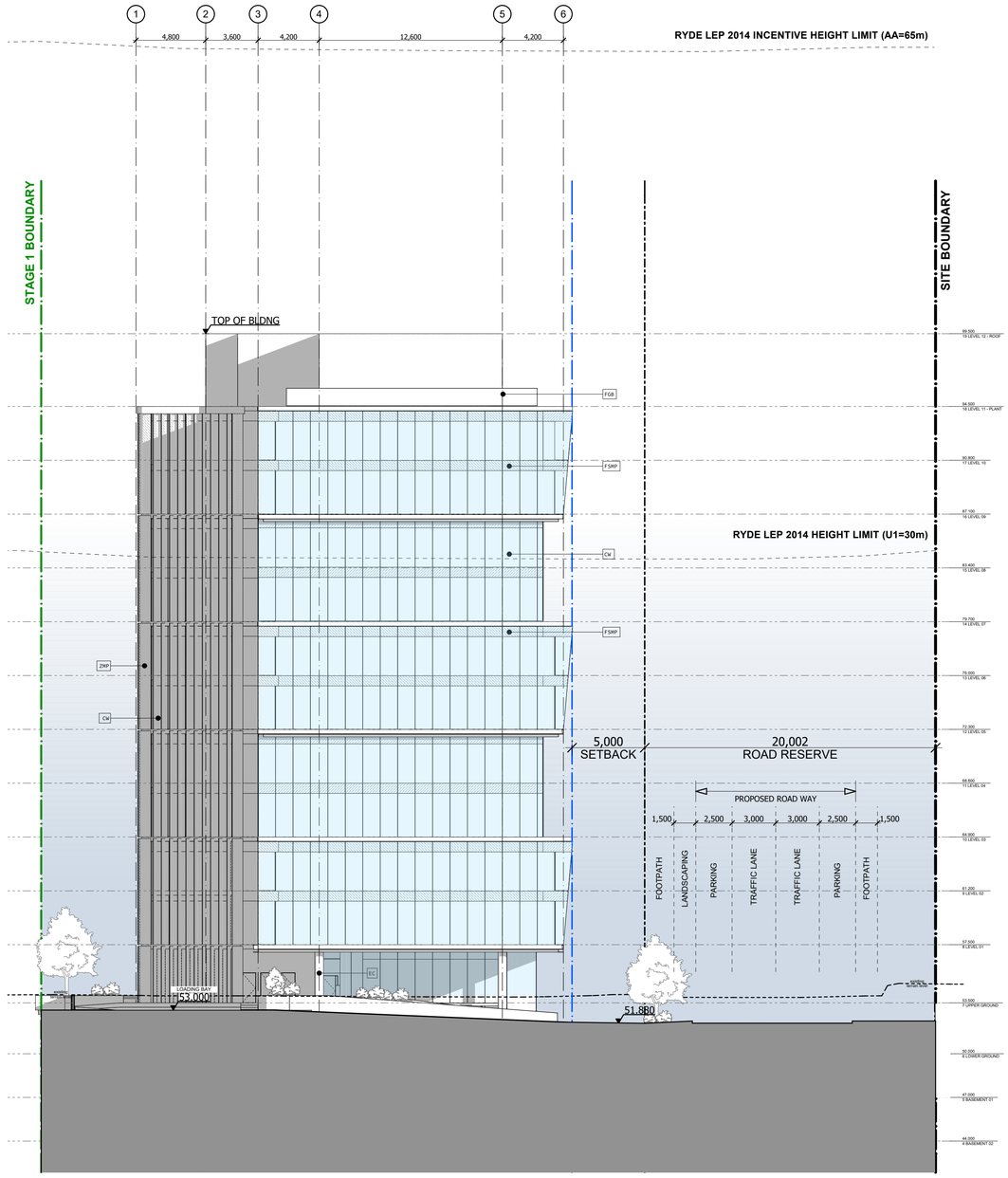
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NORTH ELEVATION

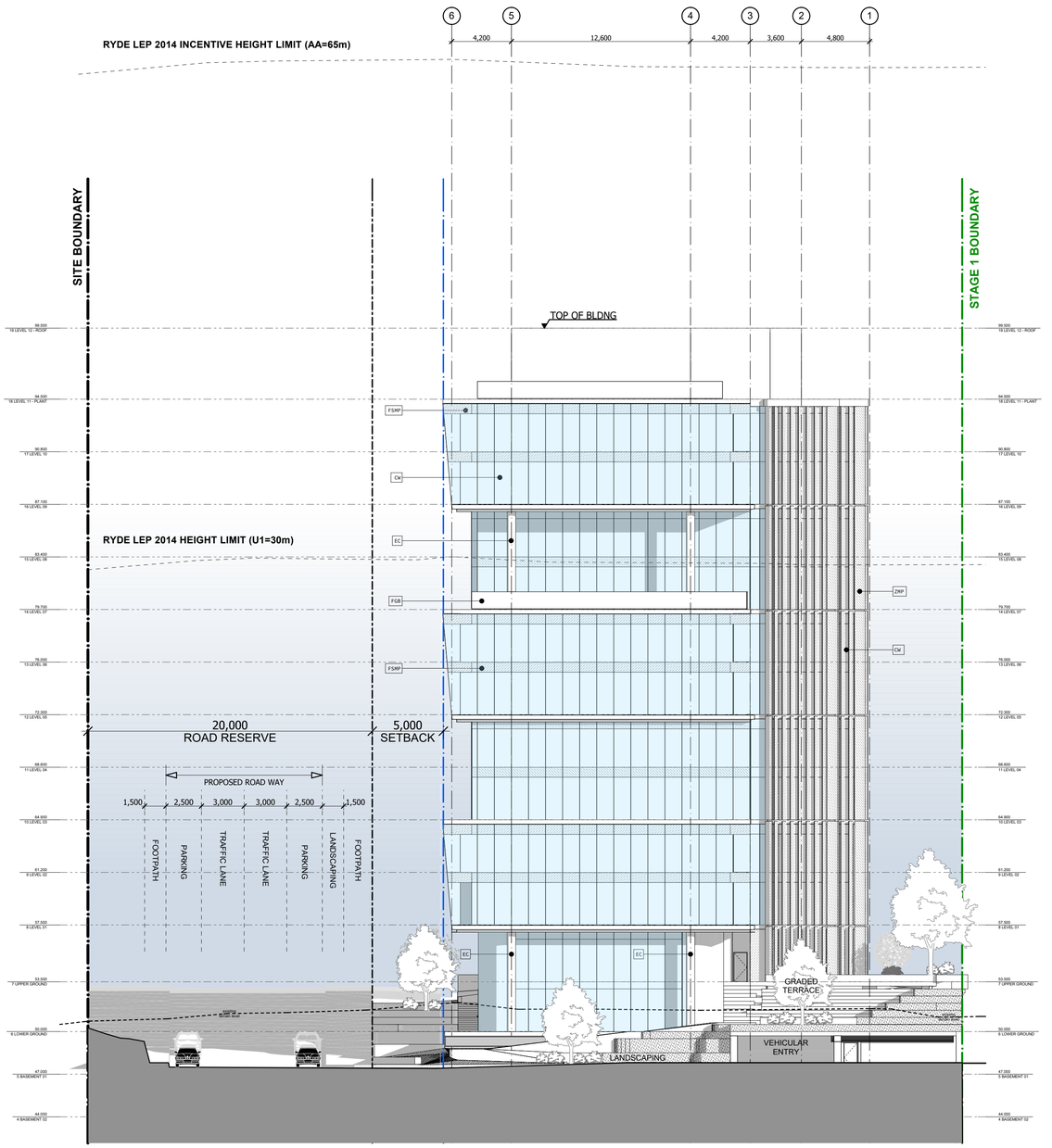
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|---|---|---|
| 1:200, 1:100 @ A1 | IBM | SC |
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1 ELEVATION
EAST ELEVATION 1:200




2 ELEVATION
WEST ELEVATION 1:200

**EXTERNAL MATERIAL LEGEND:**

| | |
|---|---|
| CW | CURTAIN WALL GLASS FACADE |
| ZMP | ZINC MESH FACADE PANELS |
| RB | RENDERED BLOCKWORK RETAINING WALLS |
| EHL | EXTRUDED HORIZONTAL SUNSHADING LOUVRE |
| FSMP | FACADE SPANDREL PANEL |
| FGB | FRAMELESS GLASS BALUSTRADE |
| EC | EXPOSED CONCRETE |

| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
|---|---|---|---|---|
| D | DA AMENDED FOR APPROVAL | IBM | SC | 12-06-18 |
| C | DA FOR APPROVAL | KK | SC | 17-03-17 |
| B | PRE DA - COORDINATION ISSUE | LK | SC | 15-03-17 |
| A | PRE DA - COORDINATION ISSUE | LK | SC | 02-12-16 |

NORTH POINT

KEY

CLIENT
GOODMAN
LEVEL 17
60 CASTLEREAGH STREET
SYDNEY NSW 2000
P: 02 9230 7400
info@goodman.com

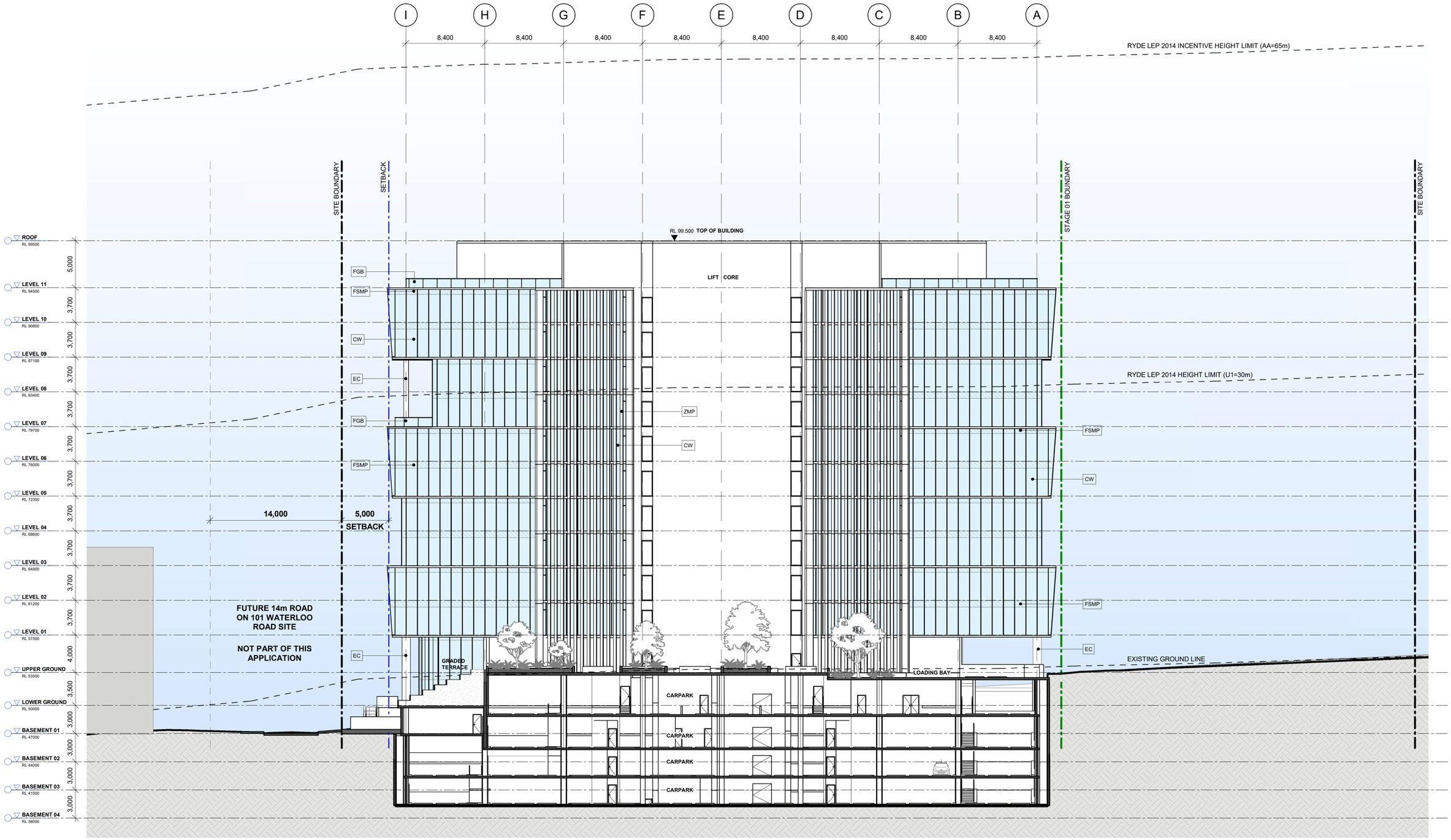
ARCHITECTS
RICE DAUBNEY
Level 1, 110 Walker Street, North Sydney NSW 2060, Australia
+61 2 9956 2666 | hdrice@daubney.com | hdrinc.com
The Rice Daubney Group (NSW) P/L as trustee for The Rice Daubney Trading Trust
ABN 56 880 304 993

PROJECT:
97 WATERLOO ROAD,
NORTH RYDE, NSW, 2113

DRAWING TITLE:
**DEVELOPMENT APPLICATION**
EAST & WEST ELEVATION

| SCALE: | DRAWN BY: | CHECKED: |
|---|---|---|
| 1:200, 1:100 @ A1 | KK | SC |
| PROJECT NUMBER: | DRAWING NUMBER: | ISSUE: |
| 265884 | DA20 | D |

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DO NOT SCALE DRAWINGS MANUALLY OR ELECTRONICALLY.




**EXTERNAL MATERIAL LEGEND:**

| | |
|---|---|
| CW | CURTAIN WALL GLASS FACADE |
| ZMP | ZINC MESH FACADE PANELS |
| RB | RENDERED BLOCKWORK RETAINING WALLS |
| EHL | EXTRUDED HORIZONTAL SUNSHADING LOUVRE |
| FSMP | FACADE SPANDREL PANEL |
| FGB | FRAMELESS GLASS BALUSTRADE |
| EC | EXPOSED CONCRETE |

DEVELOPMENT APPLICATION ONLY
NOT FOR CONSTRUCTION

WMK Architecture
L2 364 Kent Street
Sydney NSW 2000
Telephone 02 9299 0401
Facsimile 02 9299 0402
wmkarchitecture.com
ABN 25 082 956 929

**NOTES**

0 2 4 6 8m
1:200

| Issue | Description | Date |
|---|---|---|
| A | PRE DA - COORDINATION ISSUE | 02-12-16 |
| B | PRE DA - COORDINATION ISSUE | 15-03-17 |
| C | DA FOR APPROVAL | 17-03-17 |
| D | DA AMENDED FOR APPROVAL | 12-06-18 |
| E | DA AMENDED FOR APPROVAL | 20-02-19 |

Client
Goodman
GROWTHBUILT

Project
MACQUARIE PARK
COMMERCIAL OFFICE
97 WATERLOO ROAD,
MACQUARIE PARK, NSW, 2113

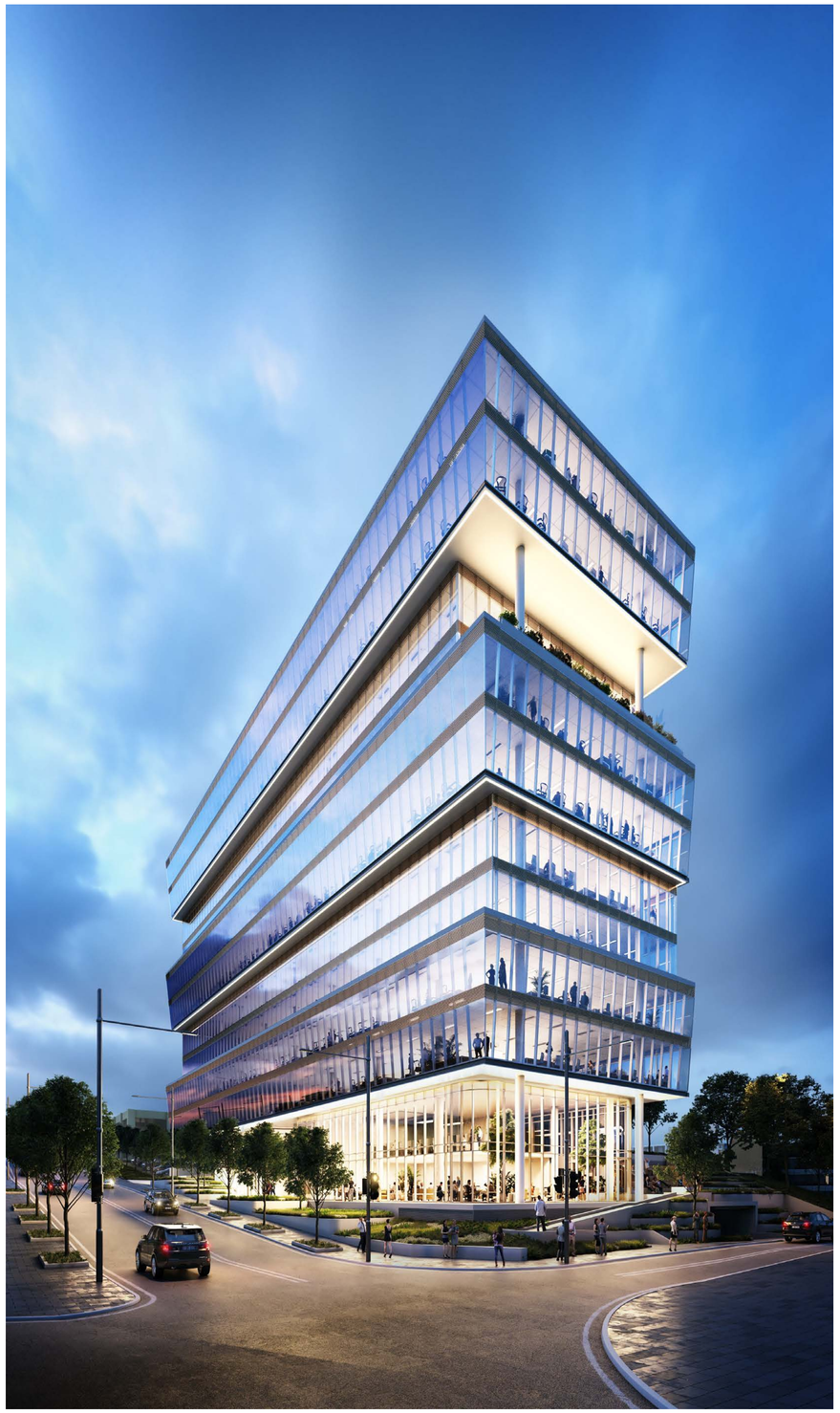
Title
DEVELOPMENT APPLICATION
SOUTH ELEVATION

Drawing No. DA21
Issue E
Scale 1 : 200@A1
Drawing Size A1
Project No. 18255
Drawn By VP
CAD Reference
2/20/2019 10:53:22 AM

Dimensioned Drawings to take precedence over scaling. Contractor to verify all dimensions on site before construction. All inconsistencies to be reported to the Architect immediately. This drawing and its contents remain the copyright of WMK Architecture Pty Ltd ©



1 PERSPECTIVE
VIEW FROM WATERLOO ROAD NTS



2 PERSPECTIVE
VIEW FROM NORTH NTS

| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
|---|---|---|---|---|
| D | REVISED DA | IBM | SC | 17-09-18 |
| C | DA FOR APPROVAL | KK | SC | 17-03-17 |
| B | PRE DA - COORDINATION ISSUE | LK | SC | 15-03-17 |
| A | PRE DA - COORDINATION ISSUE | LK | SC | 02-12-16 |

| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
|---|---|---|---|---|

NORTH POINT

KEY

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GOODMAN
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info@goodman.com

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The Rice Daubney Group (NSW) P/L as trustee for The Rice Daubney Trading Trust
ABN 56 880 304 993

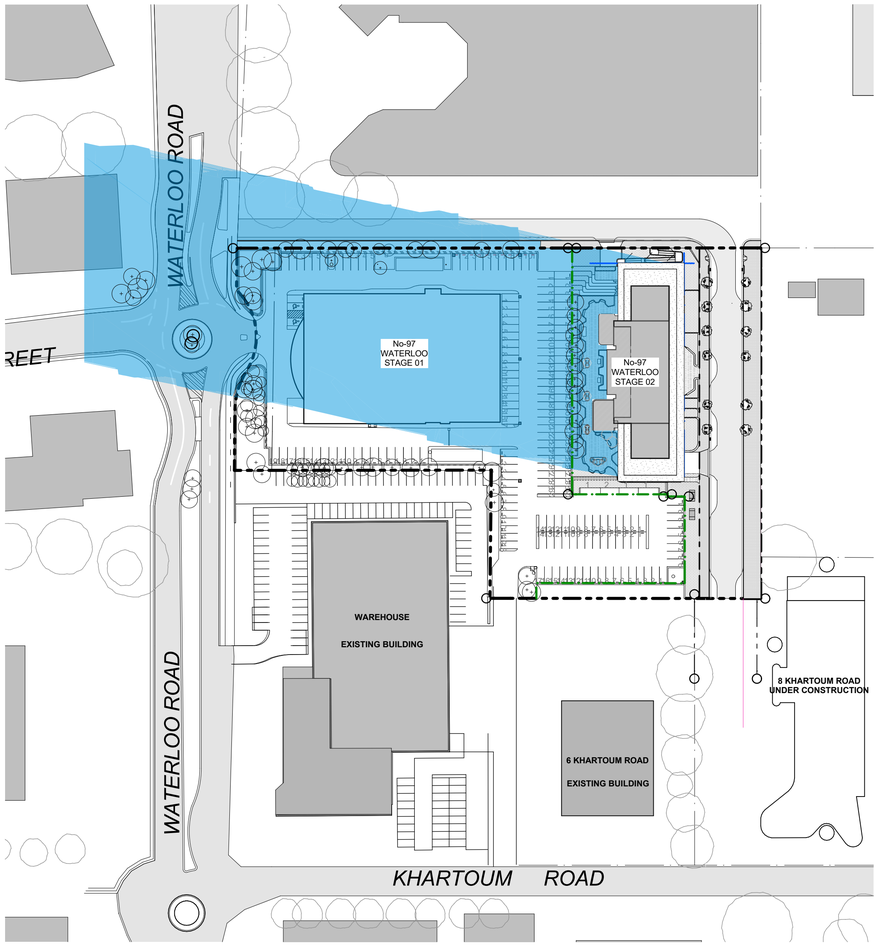
PROJECT:
97 WATERLOO ROAD,
NORTH RYDE, NSW, 2113

DRAWING TITLE:
**DEVELOPMENT APPLICATION**
PHOTOMONTAGES

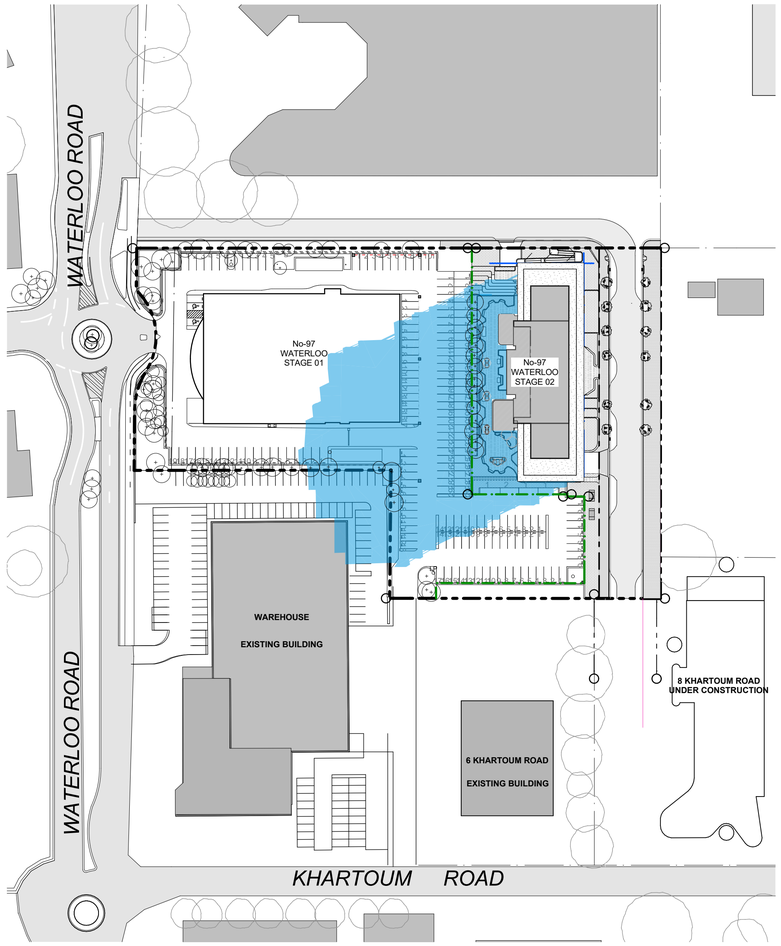
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| 1:1.65, 1:100 @ A1 | IBM | SC |
| PROJECT NUMBER: | DRAWING NUMBER: | ISSUE: |
| 265884 | DA25 | D |

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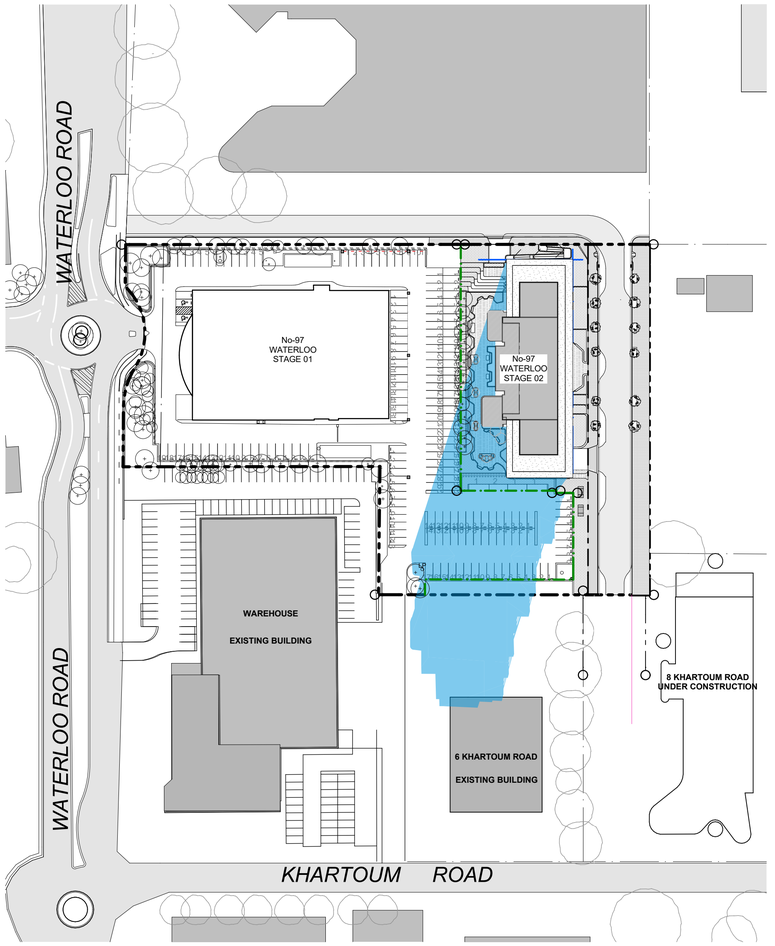
M:\Projects\2015\15C 97 Waterloo Rd\11.0 BIM\11.06 Master\180830 LOBBY\WATERLOO LOBBY_JME.dri.pln




2 PLAN
09AM SITE 1:1000




3 PLAN
12PM SITE 1:1000




4 PLAN
3PM SITE 1:1000

| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
|---|---|---|---|---|
| C | DA FOR APPROVAL | KK | SC | 17-03-17 |
| B | PRE DA - COORDINATION ISSUE | LK | SC | 15-03-17 |
| A | PRE DA - COORDINATION ISSUE | LK | SC | 02-12-16 |

| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
|---|---|---|---|---|

NORTH POINT

KEY

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info@goodman.com

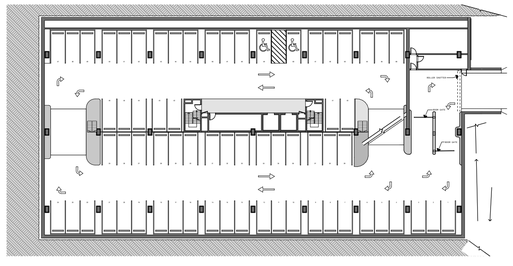
ARCHITECTS
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Level 1, 110 Walker Street, North Sydney NSW 2060, Australia
+61 2 9956 2666 | hdrrice@daubney.com | hdrinc.com
The Rice Daubney Group (NSW) P/L as trustee for The Rice Daubney Trading Trust
ABN 56 880 304 993

PROJECT:
97 WATERLOO ROAD,
NORTH RYDE, NSW, 2113

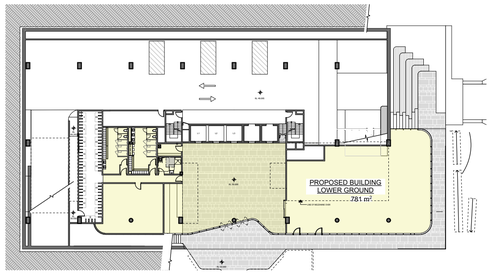
DRAWING TITLE:
**DEVELOPMENT APPLICATION**
SHADOW DIAGRAMS

| SCALE: | DRAWN BY: | CHECKED: |
|---|---|---|
| 1:1000 @ A1 | KK | SC |
| PROJECT NUMBER: | DRAWING NUMBER: | ISSUE: |
| 265884 | DA27 | C |

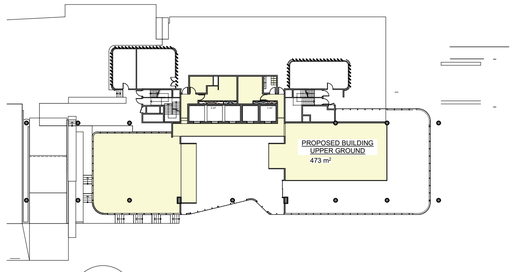
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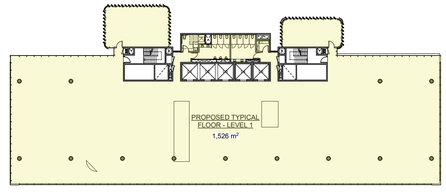
1 PLAN
BASEMENT 01-04 1:500



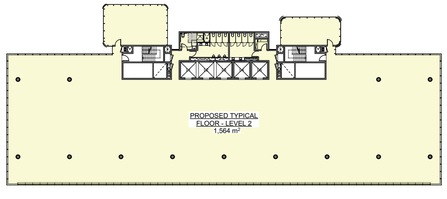

2 PLAN
LOWER GROUND 1:500



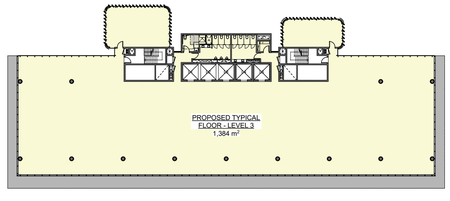

3 PLAN
UPPER GROUND 1:500



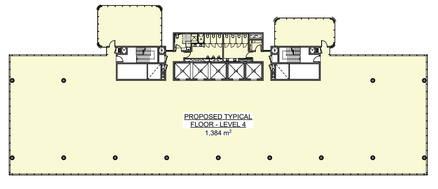

4 PLAN
LEVEL 01 1:500



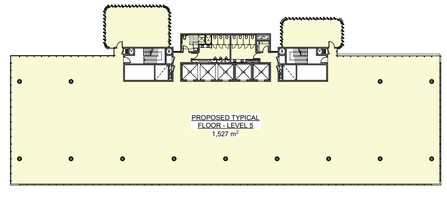

5 PLAN
LEVEL 02 1:500



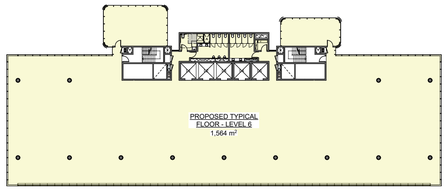

6 PLAN
LEVEL 03 1:500



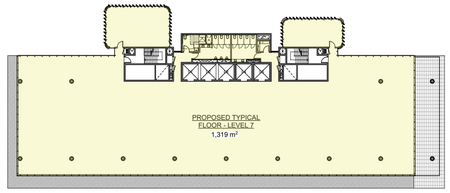

7 PLAN
LEVEL 04 1:500



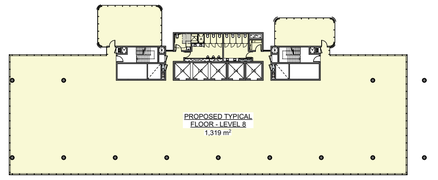

8 PLAN
LEVEL 05 1:500



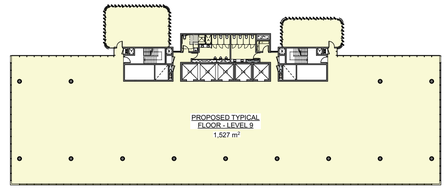

9 PLAN
LEVEL 06 1:500



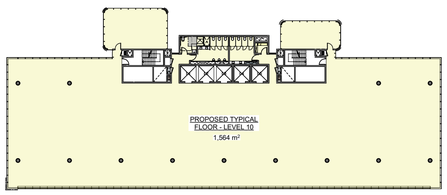

10 PLAN
LEVEL 07 1:500



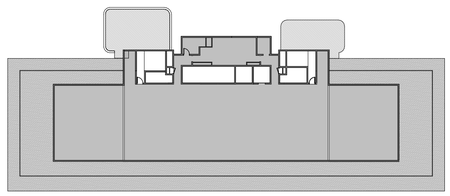

11 PLAN
LEVEL 08 1:500




12 PLAN
LEVEL 09 1:500




13 PLAN
LEVEL 10 1:500



14 PLAN
LEVEL 11 - PLANT 1:500

| Area Schedule - GFA | |
|---|---|
| Floor (Story) | Surface |
| LOWER GROUND | 781 |
| | 781 m² |
| UPPER GROUND | 473 |
| | 473 m² |
| LEVEL 01 | 1,526 |
| | 1,526 m² |
| LEVEL 02 | 1,564 |
| | 1,564 m² |
| LEVEL 03 | 1,384 |
| | 1,384 m² |
| LEVEL 04 | 1,384 |
| | 1,384 m² |
| LEVEL 05 | 1,527 |

| Area Schedule - GFA | |
|---|---|
| Floor (Story) | Surface |
| | 1,527 m² |
| LEVEL 06 | 1,564 |
| | 1,564 m² |
| LEVEL 07 | 1,319 |
| | 1,319 m² |
| LEVEL 08 | 1,319 |
| | 1,319 m² |
| LEVEL 09 | 1,527 |
| | 1,527 m² |
| LEVEL 10 | 1,564 |
| | 1,564 m² |
| | 15,932 m² |

| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
|---|---|---|---|---|
| D | REVISED DA | IBM | SC | 17-09-18 |
| C | DA FOR APPROVAL | KK | SC | 17-03-17 |
| B | PRE DA - COORDINATION ISSUE | LK | SC | 15-03-17 |
| A | PRE DA - COORDINATION ISSUE | LK | SC | 02-12-16 |

NORTH POINT

KEY

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+61 2 9956 2666 | hdriceadaubney.com | hdrinc.com
The Rice Daubney Group (NSW) P/L as trustee for The Rice Daubney Trading Trust
ABN 56 880 304 993

PROJECT:
97 WATERLOO ROAD,
NORTH RYDE, NSW, 2113

DRAWING TITLE:
**DEVELOPMENT APPLICATION**
GFA AREA SCHEDULE

SCALE: 1:500, 1:1 @ A1
DRAWN BY: IBM
CHECKED: SC
PROJECT NUMBER: 265884
DRAWING NUMBER: DA28
ISSUE: D

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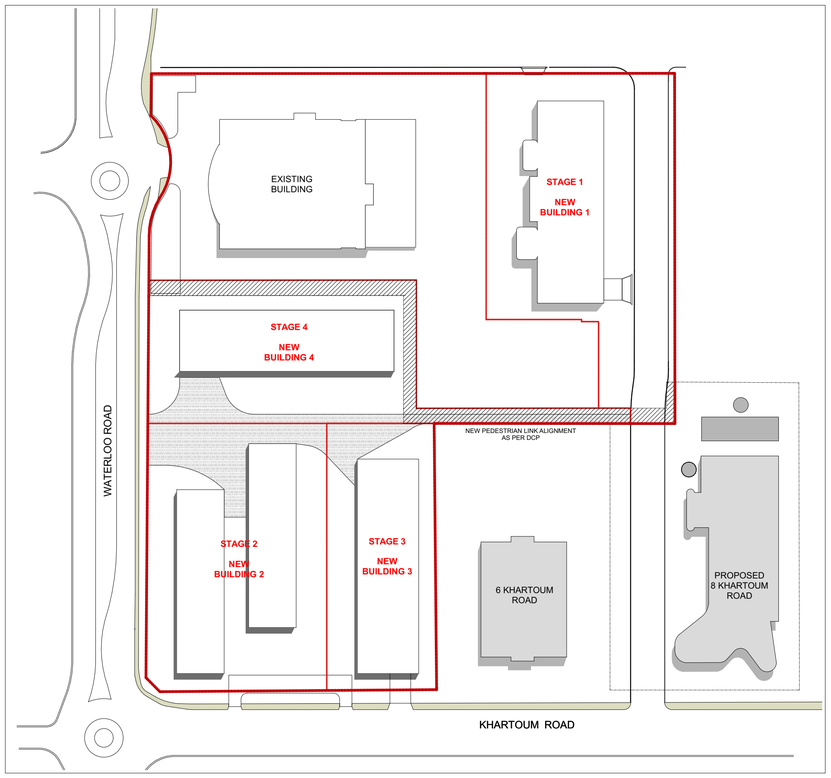
M:\Projects\2015\15C 97 Waterloo Rd\11.0 BIM\11.06 Master\180830 LOBBY\WATERLOO LOBBY_JME.dt.pln

# 97 & 85 WATERLOO ROAD, NORTH RYDE

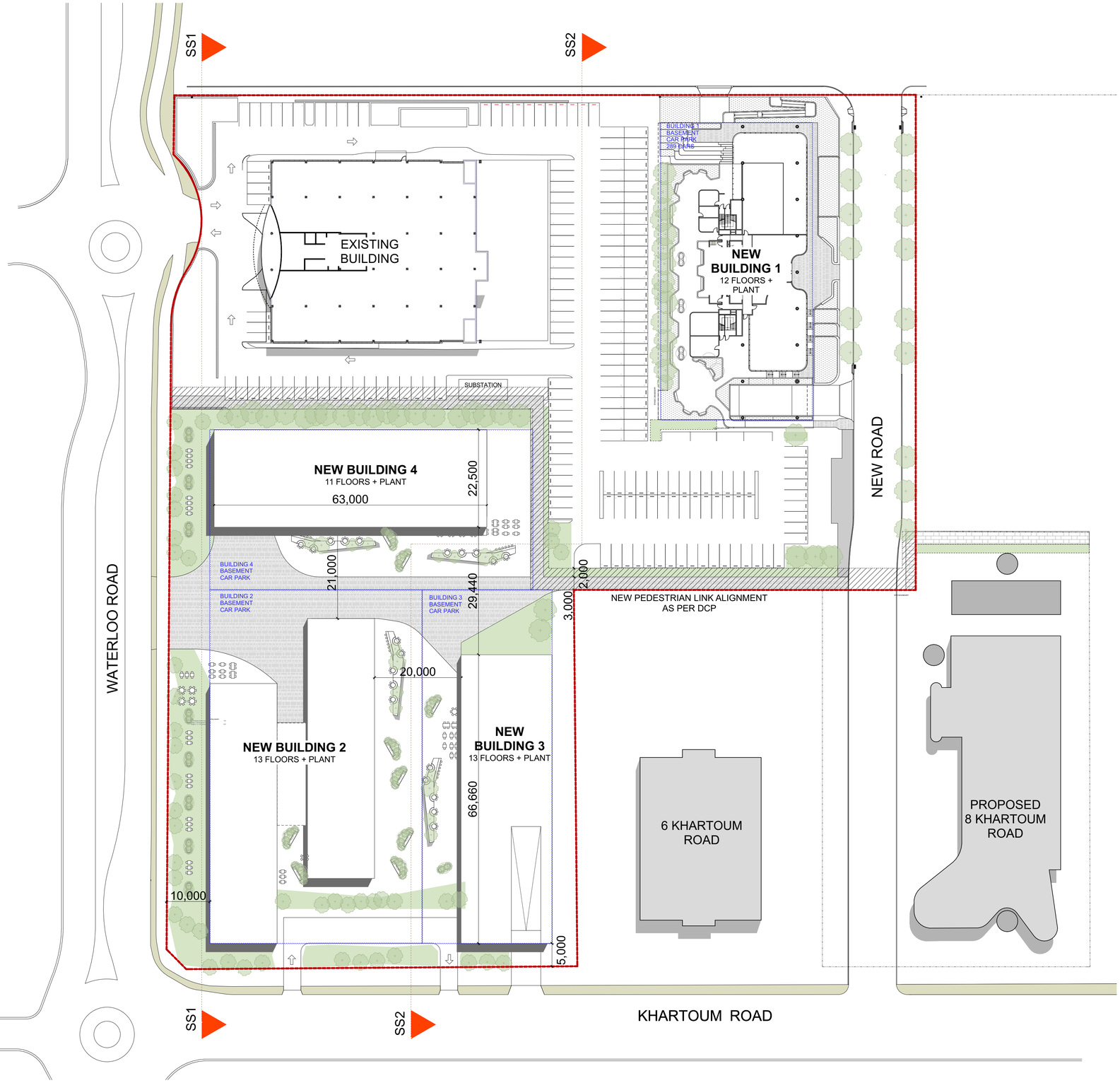
## 97 & 85 WATERLOO

| | |
|---|---|
| Total Site Area: | 27,707 sqm |
| Maximum BASE GFA: | 33,970 sqm (1.5:1, 1:1) |
| **Maximum INCENTIVE GFA:** | **83,115 sqm (3:1)** |
| Existing 97 Waterloo GFA: | 9,277 sqm (office building) |
| Existing 85 Waterloo GFA: | Demolished (3,700 sqm) |
| Building 1 GFA: | 15,932 sqm (11 floors) |
| Building 2 GFA: | 24,180 sqm (12 floors) |
| Building 3 GFA: | 18,200 sqm (13 floors) |
| Building 4 GFA: | 15,400 sqm (11 floors) |
| **TOTAL** | **82,989 sqm** |

| **Site** | **Parking spaces** |
|---|---|
| 97 Waterloo Road (existing) | 189 |
| Stage 1 Development | 280 |
| Stage 2, 3, 4 Development | 825 |




1 PLAN
STAGING PLAN 1:1000




2 PLAN
SITE PLAN 1:500

| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
|---|---|---|---|---|
| G | STAGING PLAN UPDATES | IBM | SC | 21-01-19 |
| F | DA AMENDED - ROAD 1 REALIGMENT | IBM | SC | 21-08-18 |
| E | DA RESPONSE TO UDRP LDA2017/0096 | IBM | SC | 04-07-18 |
| D | DA AMENDED FOR APPROVAL | IBM | SC | 06-06-18 |
| C | DA FOR APPROVAL | KK | SC | 17-03-17 |
| B | PRE DA - COORDINATION ISSUE | LK | SC | 15-03-17 |
| A | PRE DA - COORDINATION ISSUE | LK | SC | 02-12-16 |

| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
|---|---|---|---|---|
| H | STAGING AND DRIVE WAY UPDATES | IBM | SC | 18-02-19 |

NORTH POINT

KEY


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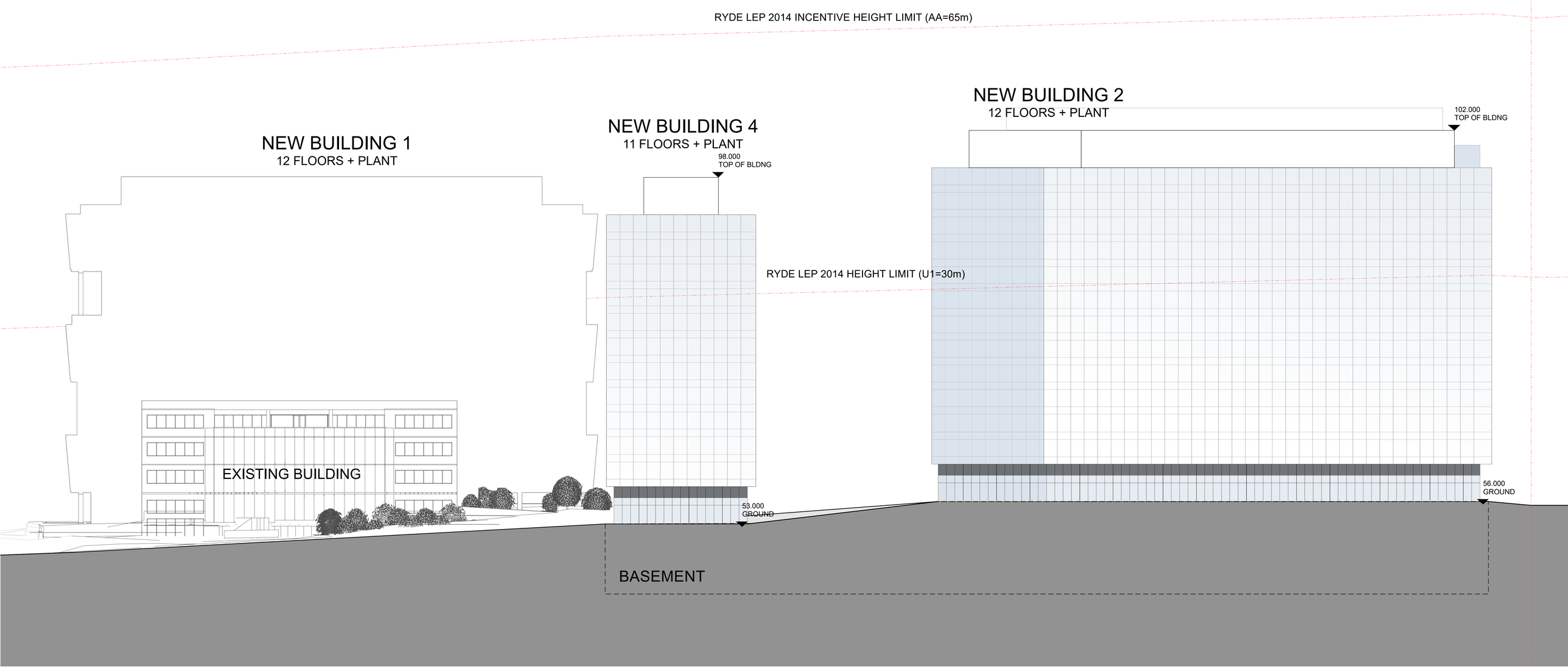

PROJECT:
97 WATERLOO ROAD,
NORTH RYDE, NSW, 2113

DRAWING TITLE:
**DEVELOPMENT APPLICATION**
MATERPLAN- SITE PLAN

| SCALE: | DRAWN BY: | CHECKED: |
|---|---|---|
| 1:1000, 1:500, 1:50 @ A1KK | | SC |
| PROJECT NUMBER: | DRAWING NUMBER: | ISSUE: |
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M:\Projects\2015\15C 97 Waterloo Rd\11.0 BIM\11.06 Master\180820 STAGE2 POST DA 2ND AMENDED\15C 97 Waterloo Stage 02 post DA 2ndAMEND.pln




1 PLAN
SITE SECTION 1 1:250

| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
|---|---|---|---|---|
| C | DA FOR APPROVAL | KK | SC | 17-03-17 |
| B | PRE DA - COORDINATION ISSUE | LK | SC | 15-03-17 |
| A | PRE DA - COORDINATION ISSUE | LK | SC | 02-12-16 |

| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
|---|---|---|---|---|

NORTH POINT

KEY

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GOODMAN
LEVEL 17
60 CASTLEREAGH STREET
SYDNEY NSW 2000
P: 02 9230 7400
info@goodman.com

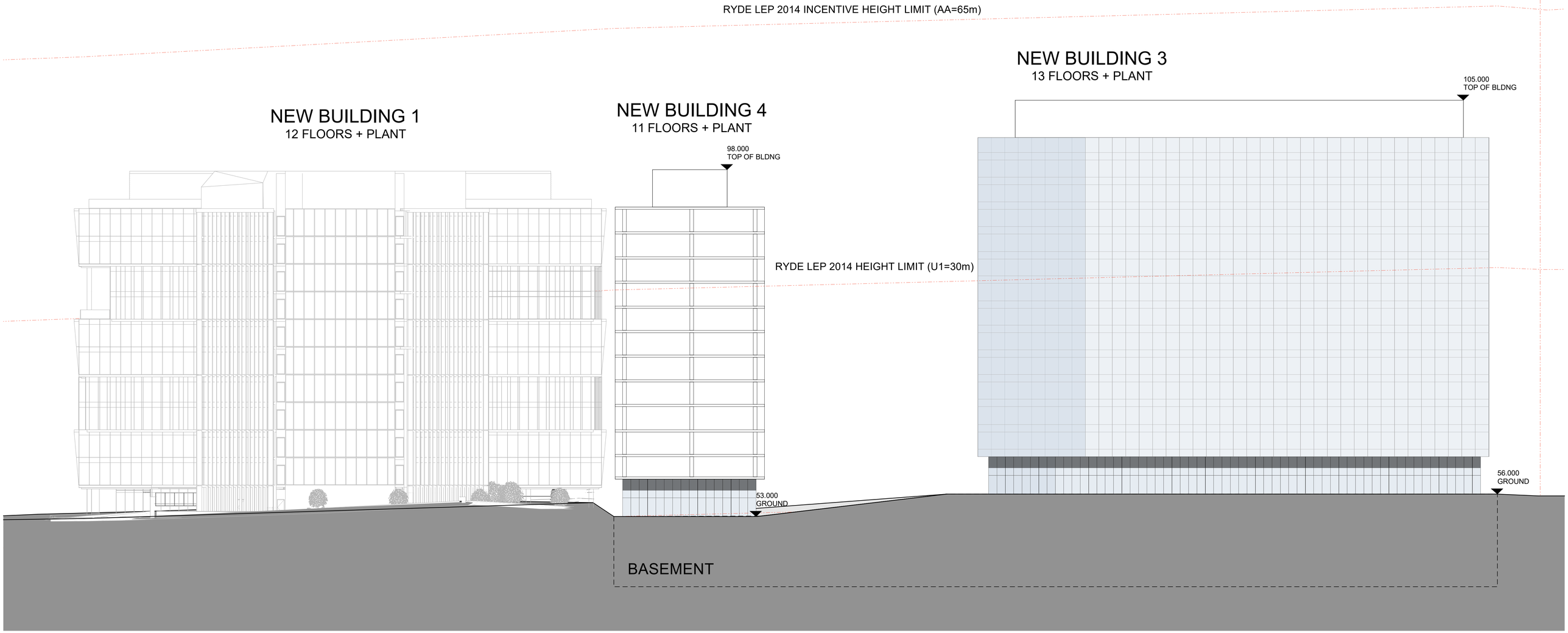
ARCHITECTS
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The Rice Daubney Group (NSW) P/L as trustee for The Rice Daubney Trading Trust
ABN 56 880 304 993

PROJECT:
97 WATERLOO ROAD,
NORTH RYDE, NSW, 2113

DRAWING TITLE:
**DEVELOPMENT APPLICATION**
MASTERPLAN- SITE SECTION 1

| SCALE: | DRAWN BY: | CHECKED: |
|---|---|---|
| 1:250 @ A1 | KK | SC |
| PROJECT NUMBER: | DRAWING NUMBER: | ISSUE: |
| 265884 | DA30 | C |

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1 PLAN
SITE SECTION 2 1:250

| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
|---|---|---|---|---|
| C | DA FOR APPROVAL | KK | SC | 17-03-17 |
| B | PRE DA - COORDINATION ISSUE | LK | SC | 15-03-17 |
| A | PRE DA - COORDINATION ISSUE | LK | SC | 02-12-16 |

| REV | DESCRIPTION OF CHANGE | DRAWN | CHECK | DATE |
|---|---|---|---|---|

NORTH POINT

KEY

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SYDNEY NSW 2000
P: 02 9230 7400
info@goodman.com

ARCHITECTS
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The Rice Daubney Group (NSW) P/L as trustee for The Rice Daubney Trading Trust
ABN 56 880 304 993

PROJECT:
97 WATERLOO ROAD,
NORTH RYDE, NSW, 2113

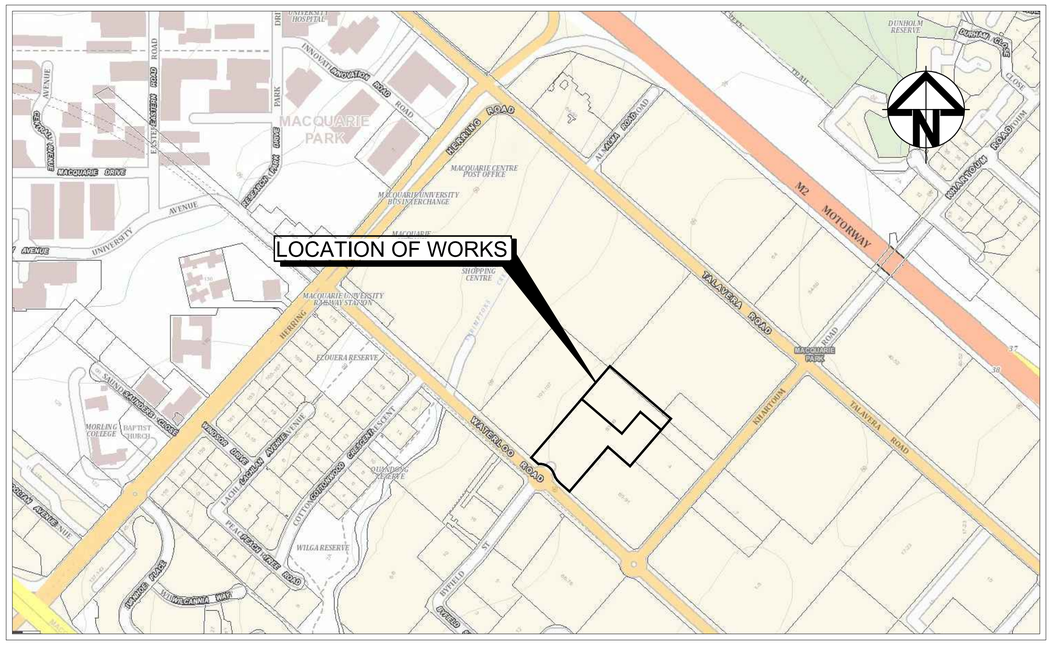
DRAWING TITLE:
**DEVELOPMENT APPLICATION**
MASTERPLAN- SITE SECTION 2

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| PROJECT NUMBER: | DRAWING NUMBER: | ISSUE: |
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# □□ WATERLOO ROAD □MAC □UARIE PARK
# PROPOSED DEVELOPMENT APPLICATION
# CIVIL WORKS PACKAGE

| DRAWING LIST | |
|---|---|
| DRAWING N□□ | DRAWING TITLE |
| 1□-□2□-DAC□□1 | COVER SHEET AND LOCALITY PLAN |
| 1□-□2□-DAC□□2 | NOTES AND LEGENDS |
| 1□-□2□-DAC□□□ | GENERAL ARRANGEMENT PLAN |
| 1□-□2□-DAC□□□ | TYPICAL ROAD CROSS SECTIONS |
| 1□-□2□-DAC□11 | SITEWORKS AND STORMWATER DRAINAGE PLAN |
| 1□-□2□-DAC□21 | PROPOSED ROAD □1 LONGITUDINAL SECTION |
| 1□-□2□-DAC□2□ | PROPOSED ROAD □1 CROSS SECTIONS |
| 1□-□2□-DAC□□□ | BULK EARTHWORKS CUT FILL PLAN |
| 1□-□2□-DAC□□1 | BULK EARTHWORKS SITE SECTIONS |
| 1□-□2□-DAC□□□ | SIGNAGE AND LINEMARKING PLAN |
| 1□-□2□-DAC□□□ | PAVEMENT PLAN |
| 1□-□2□-DAC□□□ | ROADWORKS DETAILS |
| 1□-□2□-DAC□□□ | STORMWATER DRAINAGE CATCHMENT PLAN SHEET 1 |
| 1□-□2□-DAC□□1 | STORMWATER DRAINAGE CATCHMENT PLAN SHEET 2 |
| 1□-□2□-DAC□□2 | STORMWATER DRAINAGE DETAILS |
| 1□-□2□-DAC□□□ | STORMWATER DRAINAGE ONSITE DETENTION TANK 1 DETAILS |
| 1□-□2□-DAC□□□ | STORMWATER LONGITUDINAL SECTION |
| 1□-□2□-DAC□□□ | SIGNAGE AND LINEMARKING PLAN |
| 1□-□2□-DAC□□□ | SERVICES AND UTILITIES COORDINATION PLAN SHEET 1 |
| 1□-□2□-DAC□□1 | SERVICES AND UTILITIES COORDINATION PLAN SHEET 2 |
| 1□-□2□-DAC□□□ | EROSION AND SEDIMENT CONTROL PLAN |
| 1□-□2□-DAC□□1 | EROSION AND SEDIMENT CONTROL DETAILS |
| 1□-□2□-DAC□□□ | TURNING PATH PLAN |
| 1□-□2□-DAC1□□ | PEDESTRIAN LINK SKETCH PLAN |




LOCALITY PLAN
N.T.S

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| D | REISSUED FOR APPROVAL | 29-10-18 |
| C | ISSUED FOR APPROVAL | 09-10-18 |
| B | REISSUED FOR APPROVAL | 06-09-18 |
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| Issue | Description | Date |

100mm on Original

Bar Scales

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| Checked | MM |
| Approved | G□ |

Project
□□ WATERLOO ROAD□NORTH RYDE□NSW□211□
PROPOSED DEVELOPMENT

Title
COVER SHEET AND LOCALITY PLAN

C□□□E□□□□□r□ □□d Pr□□□□M□□□□□r□
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Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

| Drawing No. | Project No. | Issue |
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| 1□-□2□-DAC□□1 | 1□-□2□ | D |

Date Plotted: 29 Oct 2018 - 05:08PM File Name: F:\16-420 Waterloo Road\Drgs\Civil\Final\16-420-DAC001.dwg

## CONCRETE NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
2. CONCRETE QUALITY
   ALL REQUIREMENTS OF THE CURRENT ACSE CONCRETE SPECIFICATION DOCUMENT 1 SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.

| ELEMENT | AS 3600 F'c MPa AT 28 DAYS | SPECIFIED SLUMP | NOMINAL AGG. SIZE |
|---|---|---|---|
| VEHICULAR BASE | 32 | 60 | 20 |
| KERBS, PATHS, AND PITS | 25 | 80 | 20 |

   - CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL
   - PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.
3. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY AT & L.
4. CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm TOP AND 70mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.
5. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1m CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.
6. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED AND CURED IN ACCORDANCE WITH R.T.A. SPECIFICATION R83.
7. REINFORCEMENT SYMBOLS:
   N DENOTES GRADE 450 N BARS TO AS 1302 GRADE N
   R DENOTES 230 R HOT ROLLED PLAIN BARS TO AS 1302
   SL DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS 1304

   NUMBER OF BARS IN GROUP — BAR GRADE AND TYPE
   17 N 20 250
   NOMINAL BAR SIZE IN mm — SPACING IN mm

   THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE REFERANCE NUMBER FOR FABRIC TO AS 1304.
8. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:




## STORMWATER DRAINAGE NOTES

1. STORMWATER DESIGN CRITERIA:
   (A) AVERAGE RECURRENCE INTERVAL:
   1:100 YEARS ROOFED AREAS TO SURCHARGE PIT
   1:20 YEARS EXTERNAL PAVEMENTS
   (B) RAINFALL INTENSITIES:
   TIME OF CONCENTRATION: 5 MINUTES
   1:100 YEARS= 238 mm/hr
   1:20 YEARS= 185 mm/hr
   (C) RUNOFF COEFFICIENTS:
   ROOF AREAS: $C_{100}$ =1.0
   EXTERNAL PAVEMENTS: $C_{20}$ =1.0
2. PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '3' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.
3. PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS.
4. EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED.
5. ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE 6. ENSURE ALL VERTICALS AND DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.
6. PIPES TO BE INSTALLED TO TYPE HS1 SUPPORT IN ACCORDANCE WITH AS 3725 (1989) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
7. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND AS/NZS 3500 3.2 (1998).
8. PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY AT & L.
9. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
10. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
11. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
12. GRATES AND COVERS SHALL CONFORM TO AS 3996.
13. ALL INTERNAL PIT DIMENSIONS TO CONFORM TO AS3500.3 TABLE 8.2.
14. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
15. ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.

## SITEWORKS NOTES

1. ORIGIN OF LEVELS:- REFER SURVEY NOTES.
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO AT & L.
3. MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
4. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
5. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
6. PROVIDE 10mm WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
7. ASPHALTIC CONCRETE SHALL CONFORM TO RMS. SPECIFICATION R116.
8. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS. FORM 3051 (UNBOUND), RMS. FORM 3052 (BOUND) COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1
   FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m² OF BASECOURSE MATERIAL PLACED.
9. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS. FORM 3051, 3051.1 AND COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2.1
   FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m² OF SUB-BASE COURSE MATERIAL PLACED.
10. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH RMS. FORM 3051 AND 3051.1 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF AT & L.
11. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THIS SHALL BE CLEARLY INDICATED IN THEIR TENDER AND THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.
12. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.

## KERBING NOTES

1. ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25MPa U.N.O IN REINFORCED CONCRETE NOTES.
2. ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON 100mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 98% MODIFIED DRY DENSITY (AS 1289 5.2.1).
3. EXPANSION JOINTS (E.J) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
4. WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
5. BROOMED FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.
6. IN THE REPLACEMENT OF KERB AND GUTTER :-
   EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm U.N.O FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER NEW BASECOURSE AND SURFACE TO BE LAID 600mm WIDE U.N.O.

   EXISTING ALLOTMENT DRAINAGE PIPES ARE TO BE BUILT INTO THE NEW KERB AND GUTTER WITH 100mm DIA HOLE.

   EXISTING KERB AND GUTTER IS TO BE COMPLETELY REMOVED WHERE NEW KERB AND GUTTER IS SHOWN.

## SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY SURESEARCH, BEING REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. AT & L DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.

SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT AT & L.

THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM THE ORIGINAL SURVEY DOCUMENTS.

1. THIS PLAN SHOWS A REPRESENTATION OF THE DWG MODEL. THIS MODEL SHOULD BE VIEWED IN A CADD ENVIRONMENT TO INTERPRET THE INFORMATION.
2. THIS UTILITY PLAN IS VALID FOR 28 DAYS STARTING FROM THE DATE OF THE ISSUE, AS UNDERGROUND UTILITY WORKS ARE OFTEN UPDATED, SURESEARCH PLANS MUST ABIDE BY THE DBYD REGULATIONS TO PROTECT THEIR UNDERGROUND ASSETS.
3. THIS UTILITY PLAN HAS BEEN DRAWN TO SCALE, AND ANY REPRODUCTION OF THIS PLAN WILL NEED TO BE DRAWN IN COLOUR AND AT THIS SCALE TO ENSURE THAT ALL RELEVANT NOTES AND ENHANCEMENTS ARE SHOWN. FAILURE TO DO THIS WILL VOID ALL INFORMATION INDICATED FOR THIS JOB.
4. ELECTRICITY CABLES ARE NOT NECESSARILY ENCLOSED IN CONDUITS AND ARE NOT NECESSARILY COVERED WITH MARKERS, TAPE OR OTHER INDICATORS OF THEIR PRESENCE.
5. ALL SERVICES HAVE BEEN ELECTRONICALLY TRACED IN THE FIELD AND ARE SHOWN HERE FOR DIAGRAMMATIC PURPOSES ONLY. DEPTHS SHOWN ARE APPROXIMATE ONLY AND SHOULD BE VERIFIED PRIOR TO WORKS.
6. SERVICES SHOWN DIGITISED HAVE BEEN PLACED FROM RELEVANT AUTHORITY PLANS AND ARE SHOWN AS QL-D.
7. ALL UTILITIES NEED TO BE POT HOLED TO VERIFY LOCATION AND DEPTHS IS CORRECT, THAT IS QL-A.
8. NOT ALL HOUSE CONNECTIONS HAVE BEEN LOCATED.
9. ONLY TREES ABOVE 5m IN HEIGHT HAVE BEEN DETAILED ON THIS PLAN. ALL OTHER FOLIAGE IS CONSIDERED SHRUB.
10. DETAIL SURVEY MERGED WITH THIS INVESTIGATION HAS BEEN PROVIDED BY CLIENT AND IS NOT THE RESPONSIBILITY OF SURESEARCH.
11. SURESEARCH DID NOT SURVEY TREES OUTSIDE OF SCOPE BOUNDARY.

## EROSION AND SEDIMENT CONTROL NOTES

### GENERAL INSTRUCTIONS

1. THE SITE SUPERINTENDENT/ENGINEER WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED.
2. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH
   a. LOCAL AUTHORITY REQUIREMENTS
   b. EPA REQUIREMENTS
   c. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004.
3. MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
4. WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS.
5. CONTRACTOR IS TO ENSURE ALL EROSION & SEDIMENT CONTROL DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE EFFECTIVELY. REPAIRS AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.

### LAND DISTURBANCE

6. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:
   (A) INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
   (B) CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.
   (C) INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.
   (D) UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. WHERE POSSIBLE, PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.

### EROSION CONTROL

7. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
8. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

### SEDIMENT CONTROL

9. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.
10. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.
11. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
12. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

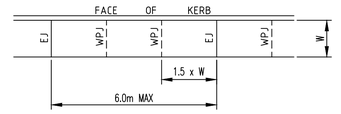
### OTHER MATTERS

13. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
14. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
   (A) PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE
   (B) ENSURING THAT NOTHING IS NAILED TO THEM
   (C) PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS.
      (I) ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 1.5 METRES OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICH EVER IS THE GREATER
      (II) A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (E.G. A GRAVEL BED) IS PLACED UNDER ALL FILL LAYERS OF MORE THAN 300 MILLIMETRES DEPTH
      (III) CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.

## JOINTING NOTES

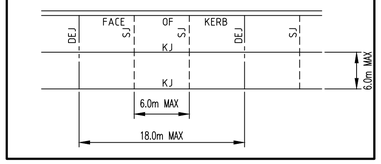
### PEDESTRIAN PAVEMENT JOINTS

1. ALL PEDESTRIAN PAVEMENTS ARE TO BE JOINTED AS FOLLOWS. (U.N.O)
2. EXPANSION JOINTS ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX. 6.0m CENTRES.
3. WEAKENED PLANE JOINTS ARE TO BE LOCATED AT A MAX. SPACING OF 1.5 x WIDTH OF THE PAVEMENT.
4. WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND OR ADJACENT PAVEMENT JOINTS.
5. PEDESTRIAN PAVEMENT JOINT DETAIL.




### VEHICULAR PAVEMENT JOINTS

6. ALL VEHICULAR PAVEMENTS TO BE JOINTED AS FOLLOWS. (U.N.O)
7. KEYED CONSTRUCTION JOINTS SHOULD GENERALLY BE LOCATED AT A MAX OF 6.0m CENTRES
8. SAWN JOINTS SHOULD GENERALLY BE LOCATED AT A MAX OF 6.0m CENTRES WITH DOWELED EXPANSION JOINTS AT MAX 18.0m CENTRES
9. VEHICULAR PAVEMENT JOINT DETAIL.




## EXISTING UNDERGROUND SERVICES NOTES

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE.
AT & L CAN NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.

CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY.

CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.

CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH, PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.

CONTRACTOR SHALL CALL;
DIAL BEFORE YOU DIG 1100
PRIOR TO COMMENCEMENT OF WORK TO OBTAIN ALL CURRENT SERVICE AUTHORITY PLANS

DIAL 1100 BEFORE YOU DIG

| Issue | Description | Date |
|---|---|---|
| C | REISSUED FOR APPROVAL | 29-10-18 |
| B | REISSUED FOR APPROVAL | 06-09-18 |
| A | ISSUED FOR APPROVAL | 17-03-17 |

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| Grid | MGA |
| Height Datum | AHD |
| Drawn | ASD |
| Designed | ASD |
| Checked | MM |
| Approved | G□ |

Project
□□ WATERLOO ROAD□NORTH RYDE□NSW□211□
PROPOSED DEVELOPMENT

Title
NOTES AND LEGENDS

C□□□E□□□□□r□ □□d Pr□□□□M□□□□□r□
at&l
L□□□□□□1□□W□□□r S□□□
N□r□□S□d□□□NSW 2□□□
ABN □□1□□ □□2 □□□
T□□□ □2 □□□□ 1□□□
F□□□ □2 □□2□1□□□
□□□ □□□□□□□□□
□□□ □□□□□□

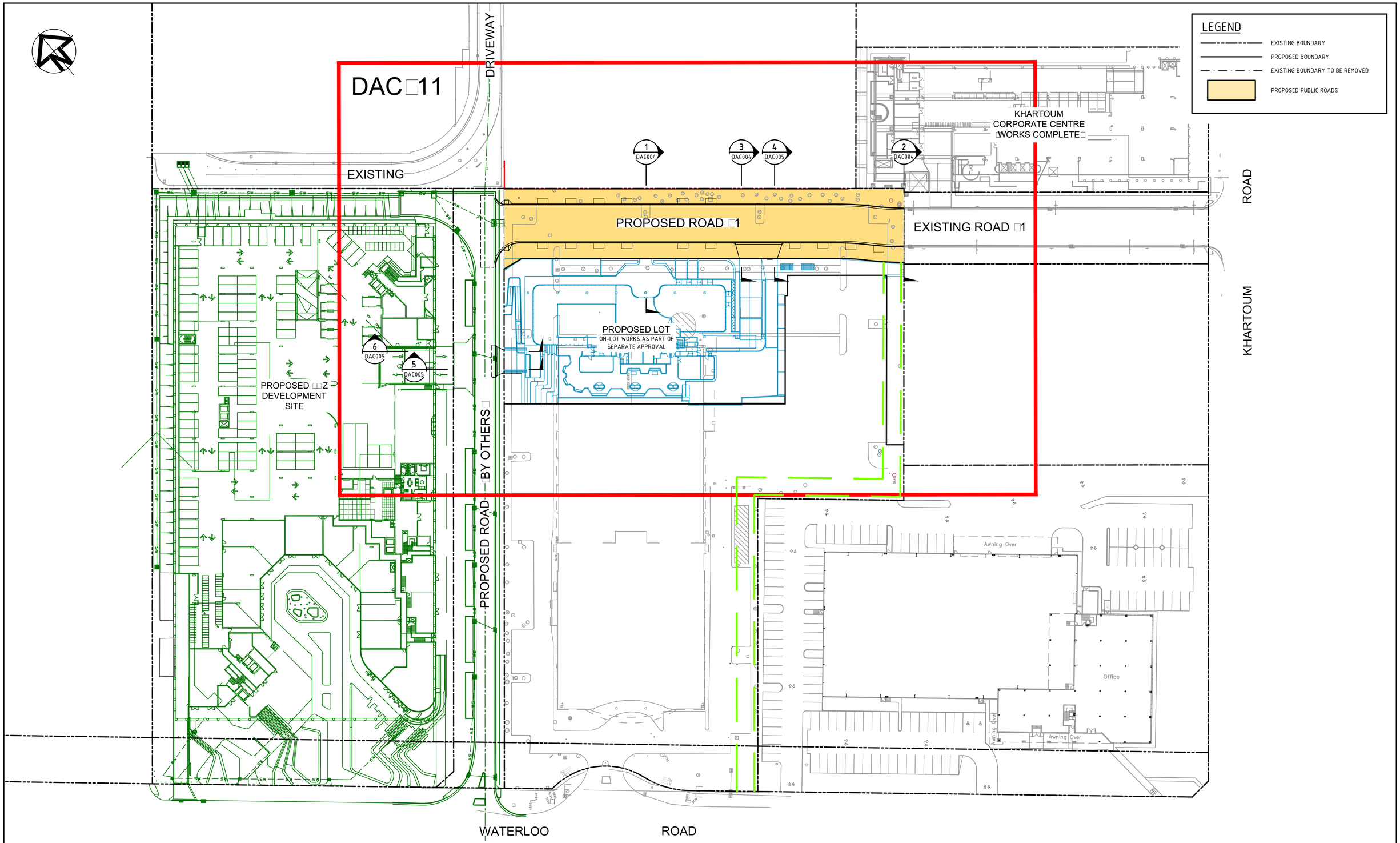
Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

| Drawing No. | Project No. | Issue |
|---|---|---|
| 1□-□2□-DAC□□2 | 1□-□2□ | C |

100mm on Original

Date Plotted: 29 Oct 2018 - 02:53PM File Name: F:\16-420 Waterloo Road\Drgs\Civil\Final\16-420-DAC002.dwg




| Issue | Description | Date |
|---|---|---|
| D | ISSUED FOR APPROVAL | 27-11-18 |
| C | REISSUED FOR APPROVAL | 29-10-18 |
| B | REISSUED FOR APPROVAL | 06-09-18 |
| A | ISSUED FOR APPROVAL | 17-03-17 |

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

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Client: Goodman

| Scales | | Drawn | ASD |
|---|---|---|---|
| 1 □□□□ □ A1 | | Designed | ASD |
| Grid | MGA | Checked | MM |
| Height Datum | AHD | Approved | G□ |

Project
□□ WATERLOO ROAD□NORTH
RYDE□NSW□211□
PROPOSED DEVELOPMENT

Title
GENERAL
ARRANGEMENT
PLAN

C□□E□□□□r□ □d Pr□□□M□□□□r□
at&l
L□□□□□1□□W□□r S□□□
N□r□□S□d□□□NSW 2□□□
ABN □□ 1□□ □□2 □□□
T□□□ □2 □□□1□□□
F□□□ □2 □□2□1□□□
□ □ □@□□□□□□□□□
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Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

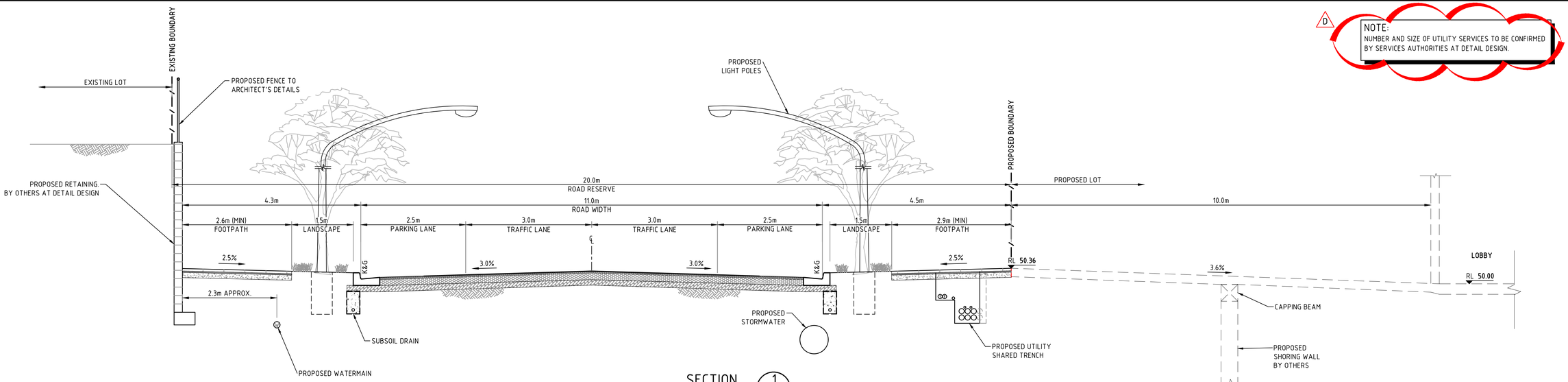
| Drawing No. | Project No. | Issue |
|---|---|---|
| 1□-□2□-DAC□□□ | 1□-□2□ | D |

100mm on Original

Date Plotted: 27 Nov 2018 - 07:12PM File Name: F:\16-420 Waterloo Road\Drgs\Civil\Final\16-420-DAC003.dwg

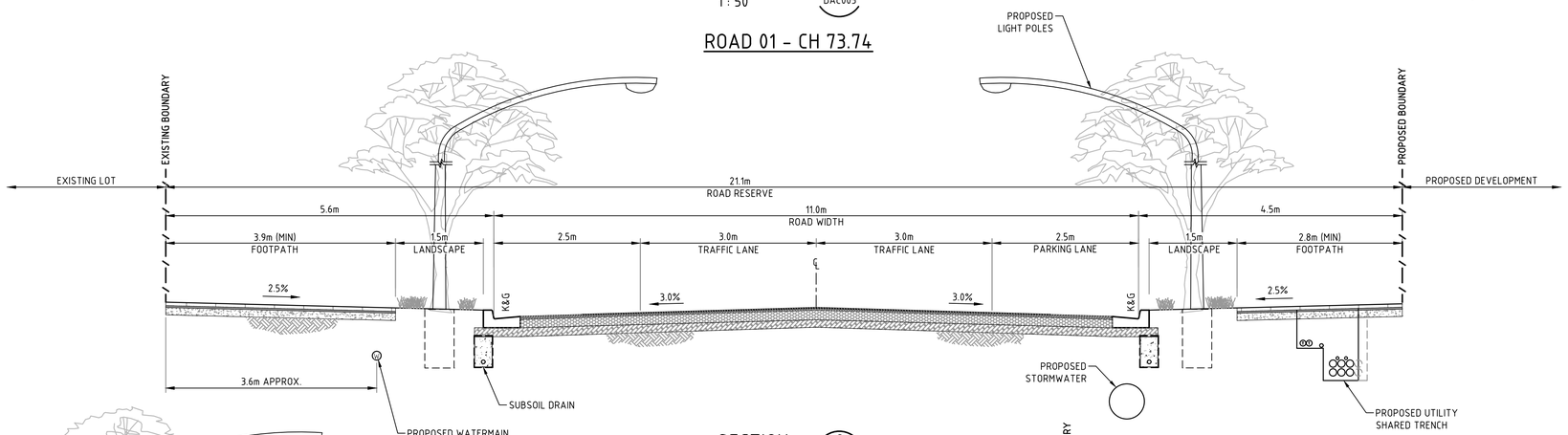
D

NOTE:
NUMBER AND SIZE OF UTILITY SERVICES TO BE CONFIRMED BY SERVICES AUTHORITIES AT DETAIL DESIGN.



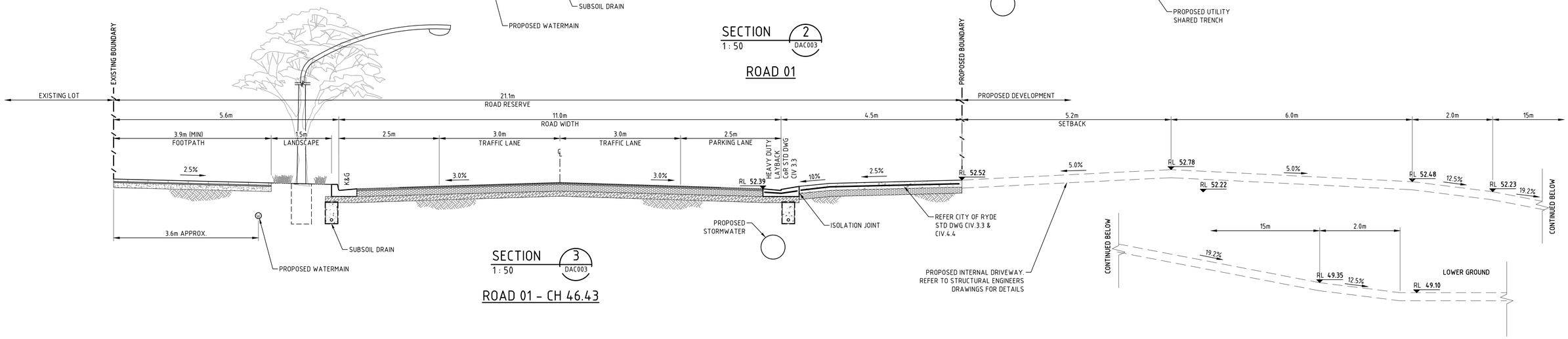

SECTION 1
1 : 50 DAC003

## ROAD 01 - CH 73.74




SECTION 2
1 : 50 DAC003

## ROAD 01




SECTION 3
1 : 50 DAC003

## ROAD 01 - CH 46.43

| Issue | Description | Date |
|---|---|---|
| F | REISSUED FOR APPROVAL | 04-12-18 |
| E | ISSUED FOR APPROVAL | 27-11-18 |
| D | REISSUED FOR APPROVAL | 29-10-18 |
| C | REISSUED FOR APPROVAL - REVISED STW LAYOUT | 09-10-18 |
| B | REISSUED FOR APPROVAL | 06-09-18 |
| A | ISSUED FOR APPROVAL | 17-03-17 |

100mm on Original

Bar Scales

0 1 2 3 4 5m

1 : 50 @ A1 1 : 100 @ A3

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Client

Goodman

| | |
|---|---|
| Scales | 1 □□□ □ A1 |
| Grid | MGA |
| Height Datum | AHD |
| Drawn | ASD |
| Designed | ASD |
| Checked | MM |
| Approved | G□ |

Project
□□ WATERLOO ROAD□NORTH
RYDE□NSW□211□
PROPOSED DEVELOPMENT

Title
TYPICAL ROAD CROSS SECTIONS
SHEET 1 OF 2

C□□E□□□□r□ □d Pr□□□M□□□□r□
at&l
L□□□□□1□□W□□r S□□□
N□r□ S□d□□□NSW 2□□□
ABN □□ 1□□ □□2 □□□
T□□ □2 □□□1□□□
F□□ □2 □□2□1□□□
□ □ □ □□□□□□□□□
□□□□ □□□□□□□

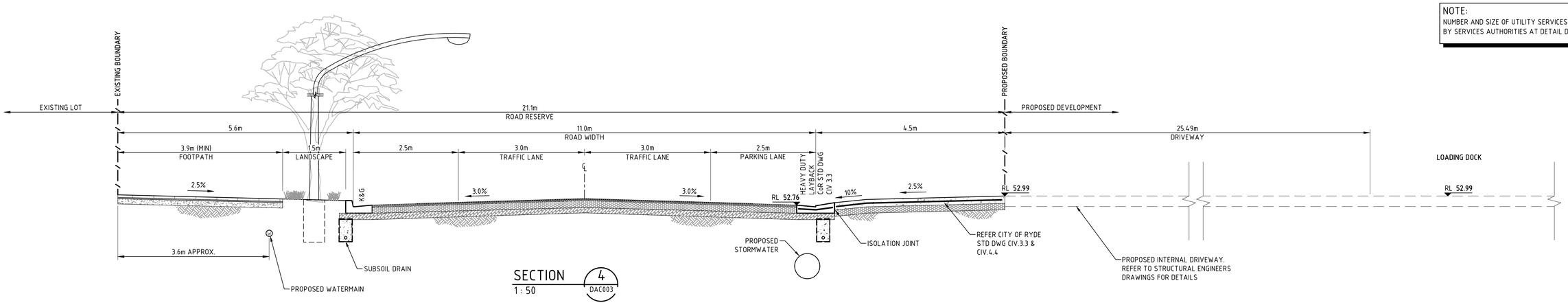
Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

| Drawing No. | Project No. | Issue |
|---|---|---|
| 1□-□2□-DAC□□□ | 1□-□2□ | F |

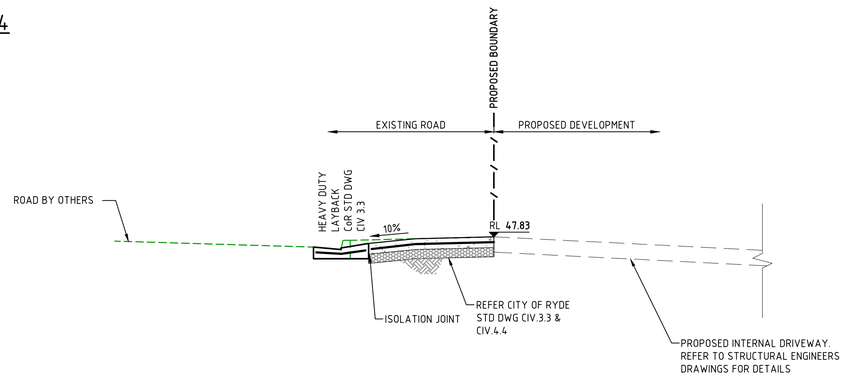
F:\16-420 Waterloo Road\Drgs\Civil\Final\16-420-DAC004.dwg

NOTE:
NUMBER AND SIZE OF UTILITY SERVICES TO BE CONFIRMED BY SERVICES AUTHORITIES AT DETAIL DESIGN.

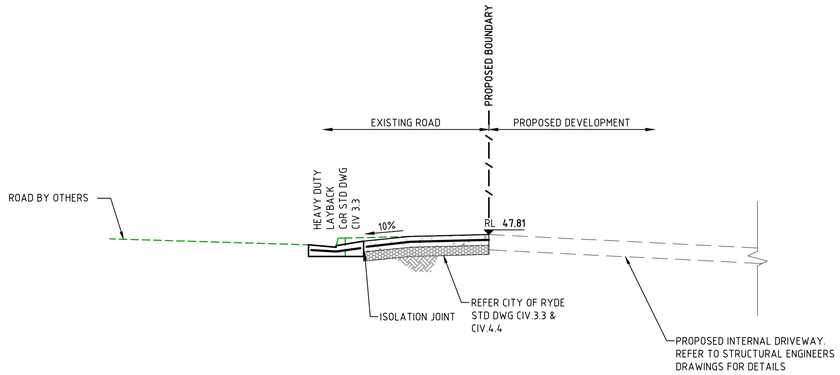



SECTION 4
1 : 50 DAC003

## ROAD 01 – CH 37.84




SECTION 5
1 : 50 DAC003




SECTION 6
1 : 50 DAC003

| Issue | Description | Date |
|---|---|---|
| B | REISSUED FOR APPROVAL | 04-12-18 |
| A | ISSUED FOR APPROVAL | 27-11-18 |

Bar Scales
0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3

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Client: Goodman

| | |
|---|---|
| Scales | 1 □□□ □ A1 |
| Grid | MGA |
| Height Datum | AHD |
| Drawn | ASD |
| Designed | ASD |
| Checked | MM |
| Approved | G□ |

Project
□□ WATERLOO ROAD□NORTH RYDE□NSW□211□
PROPOSED DEVELOPMENT

Title
TYPICAL ROAD CROSS SECTIONS SHEET 2 OF 2

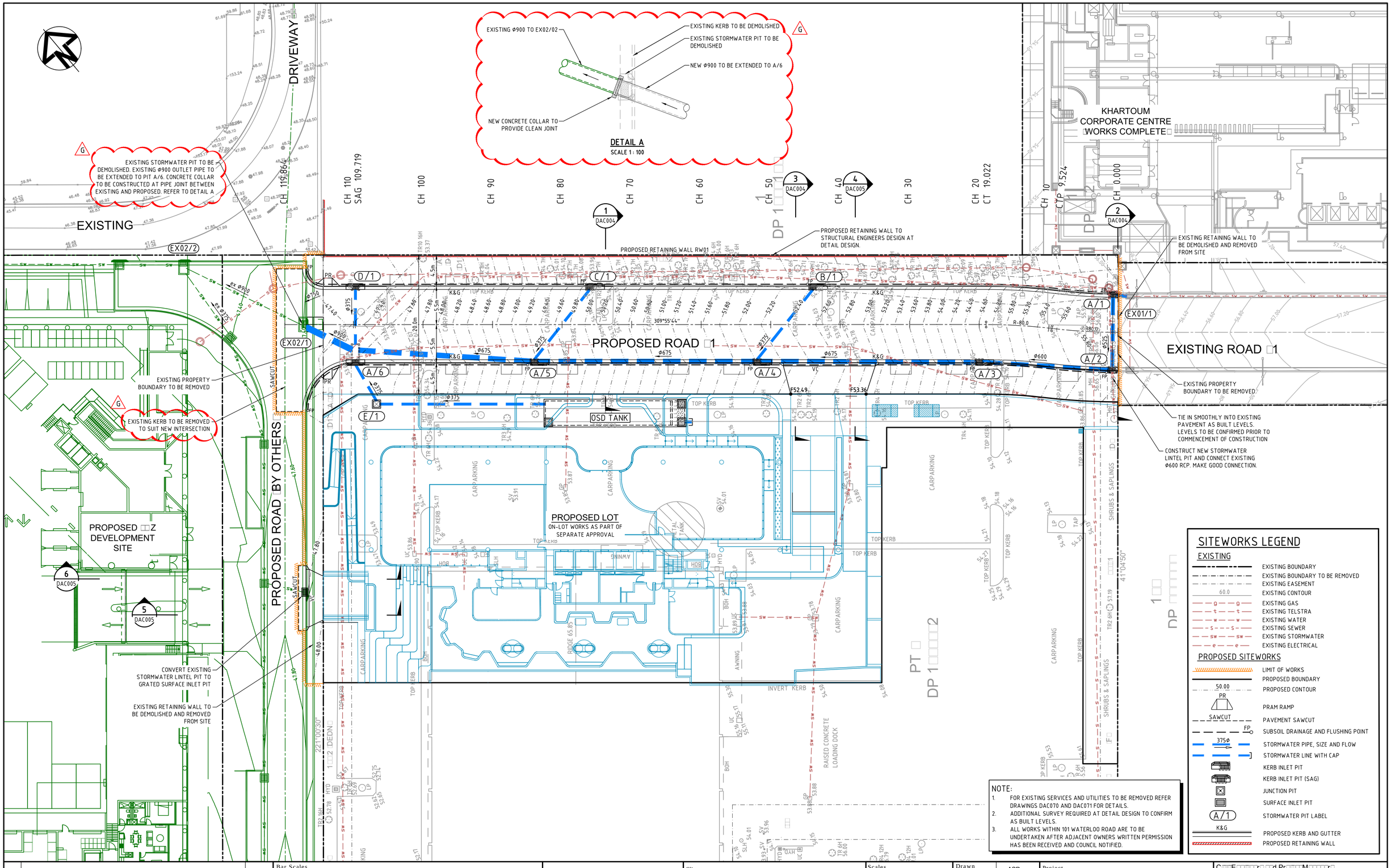
C□□□E□□□□r□ □□d Pr□□□□M□□□□□r□
at&l
L□□□□□□1□□W□□□r S□□□□
N□r□□S□d□□□NSW 2□□□
ABN □□ 1□□ □□2 □□□
T□□□ □2 □□□□ 1□□□
F□□□ □2 □□2□1□□□
□□□ □□□□□□□□

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION
A1

| Drawing No. | Project No. | Issue |
|---|---|---|
| 1□-□2□-DAC□□□ | 1□-□2□ | B |

100mm on Original

F:\16-420 Waterloo Road\Drgs\Civil\Final\16-420-DAC005.dwg




## SITEWORKS LEGEND

### EXISTING

- EXISTING BOUNDARY
- EXISTING BOUNDARY TO BE REMOVED
- EXISTING EASEMENT
- 60.0 EXISTING CONTOUR
- g — g EXISTING GAS
- t — t EXISTING TELSTRA
- w — w EXISTING WATER
- s — s EXISTING SEWER
- sw — sw EXISTING STORMWATER
- e — e EXISTING ELECTRICAL

### PROPOSED SITEWORKS

- LIMIT OF WORKS
- PROPOSED BOUNDARY
- 50.00 PROPOSED CONTOUR
- PR PRAM RAMP
- SAWCUT PAVEMENT SAWCUT
- FP SUBSOIL DRAINAGE AND FLUSHING POINT
- 375ø STORMWATER PIPE, SIZE AND FLOW
- STORMWATER LINE WITH CAP
- KERB INLET PIT
- KERB INLET PIT (SAG)
- JUNCTION PIT
- SURFACE INLET PIT
- A/1 STORMWATER PIT LABEL
- K&G PROPOSED KERB AND GUTTER
- PROPOSED RETAINING WALL

NOTE:
1. FOR EXISTING SERVICES AND UTILITIES TO BE REMOVED REFER DRAWINGS DAC070 AND DAC071 FOR DETAILS.
2. ADDITIONAL SURVEY REQUIRED AT DETAIL DESIGN TO CONFIRM AS BUILT LEVELS.
3. ALL WORKS WITHIN 101 WATERLOO ROAD ARE TO BE UNDERTAKEN AFTER ADJACENT OWNERS WRITTEN PERMISSION HAS BEEN RECEIVED AND COUNCIL NOTIFIED.

| Issue | Description | Date |
|---|---|---|
| H | REISSUED FOR APPROVAL | 04-12-18 |
| G | REISSUED FOR APPROVAL | 29-10-18 |
| F | REISSUED FOR APPROVAL - REVISED STW LAYOUT | 09-10-18 |
| E | REISSUED FOR APPROVAL | 06-09-18 |
| D | ISSUED FOR APPROVAL | 17-03-17 |
| C | ISSUED FOR CLIENT REVIEW | 13-03-17 |
| B | ISSUED FOR CLIENT REVIEW | 10-03-17 |
| A | ISSUED FOR CLIENT REVIEW | 09-03-17 |

100mm on Original

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

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Client: Goodman

| | |
|---|---|
| Scales | 1 □2□□ □ A1 |
| Grid | MGA |
| Height Datum | AHD |
| Drawn | ASD |
| Designed | ASD |
| Checked | MM |
| Approved | G□ |

Project
□□ WATERLOO ROAD□NORTH RYDE□NSW□211□
PROPOSED DEVELOPMENT

Title
SITEWORKS AND STORMWATER DRAINAGE PLAN

C□□E□□□□r□ □□d Pr□□□M□□□□r□
at&l
L□□□□□1□□W□□r S□□□
N□r□S□d□□□NSW 2□□□
ABN □□ 1□□ □□2 □□□
T□□□ □2 □□□□ 1□□□
F□□□ □2 □□2□1□□□
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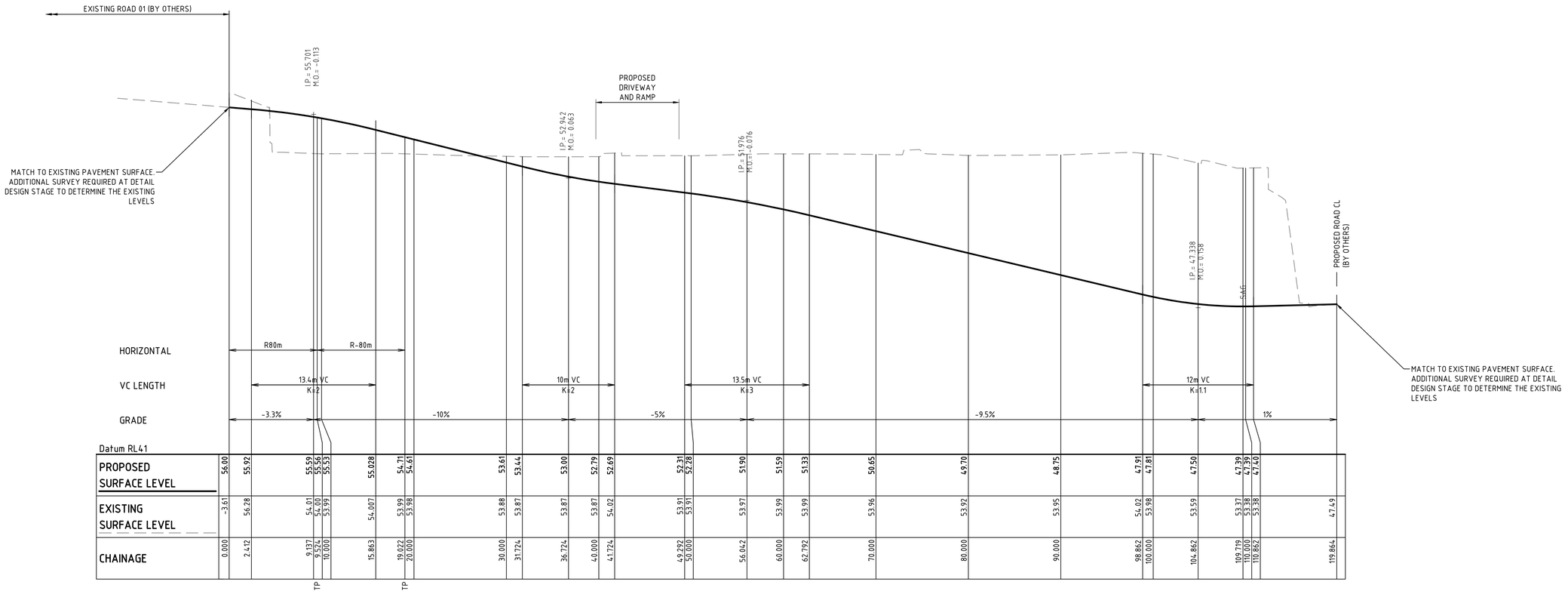
Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

| Drawing No. | Project No. | Issue |
|---|---|---|
| 1□-□2□-DAC□11 | 1□-□2□ | H |

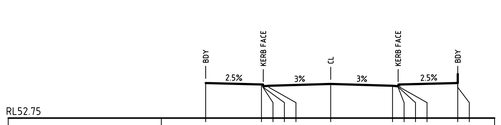
Date Plotted: 4 Dec 2018 - 04:04PM File Name: F:\16-420 Waterloo Road\Drgs\Civil\Final\16-420-DAC011.dwg

NOTE:
THE ROAD GRADING PREPARED BY AT&L HAS BEEN DETERMINED BY ADOPTING THE LEVELS NORTH AND SOUTH OF THE PROPOSED DEVELOPMENT THAT HAVE BEEN SET BY THE APPROVED ROAD DESIGNS DOCUMENTED BY NORTHROP.




| | | |

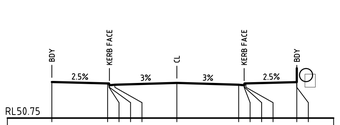
NOTE:
(T) DENOTES PROPOSED RETAINING WALL TO STRUCTURAL ENGINEER DESIGN (TYPICAL)




RL52.75

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PROPOSED SURFACE LEVEL | 55.60 | 55.49 | 55.49 | 55.34 | 55.38 | 55.53 | 55.38 | 55.49 | 55.61 |
| | | 55.49 | 55.49 | 55.34 | 55.34 | | 55.34 | 55.49 | 56.34 |
| EXISTING SURFACE LEVEL | 53.95 | 53.95 | 53.95 | 53.95 | 53.99 | | 55.47 | 55.45 | 56.34 |
| | | 53.95 | 53.95 | 53.95 | 53.99 | | 55.45 | 55.45 | 56.34 |
| CENTRELINE OFFSET | -10.20 | -5.65 | -5.53 | -5.50 | 0.00 | | 5.05 | 5.50 | 10.37 |
| | | -5.65 | -5.53 | -5.50 | -5.05 | | 5.05 | 5.50 | 10.37 |

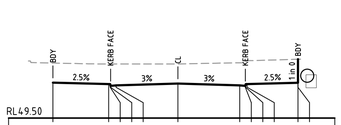
CH 10




RL50.75

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PROPOSED SURFACE LEVEL | 53.69 | 53.57 | 53.57 | 53.42 | 53.46 | 53.61 | 53.46 | 53.57 | 53.68 |
| | | 53.57 | 53.57 | 53.42 | 53.46 | | 53.42 | 53.57 | 54.80 |
| EXISTING SURFACE LEVEL | 53.95 | 53.87 | 53.87 | 53.87 | 53.87 | 53.88 | 53.98 | 54.12 | 54.80 |
| | | 53.87 | 53.87 | 53.87 | 53.87 | | 54.12 | 54.29 | 54.80 |
| CENTRELINE OFFSET | -10.20 | -5.65 | -5.53 | -5.50 | -5.05 | 0.00 | 5.05 | 5.50 | 9.80 |
| | | -5.65 | -5.53 | -5.50 | -5.05 | | 5.05 | 5.50 | 9.80 |

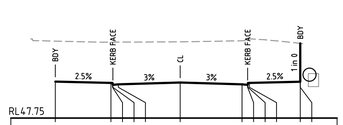
CH 30




RL49.50

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PROPOSED SURFACE LEVEL | 52.39 | 52.27 | 52.27 | 52.12 | 52.16 | 52.31 | 52.16 | 52.27 | 52.38 |
| | | 52.27 | 52.27 | 52.12 | 52.16 | | 52.12 | 52.27 | 54.30 |
| EXISTING SURFACE LEVEL | 53.98 | 53.91 | 53.91 | 53.91 | 53.91 | 53.91 | 54.01 | 54.14 | 54.30 |
| | | 53.91 | 53.91 | 53.91 | 53.91 | | 54.14 | 54.18 | 54.30 |
| CENTRELINE OFFSET | -10.20 | -5.65 | -5.53 | -5.50 | -5.05 | 0.00 | 5.05 | 5.50 | 9.80 |
| | | -5.65 | -5.53 | -5.50 | -5.05 | | 5.05 | 5.50 | 9.80 |

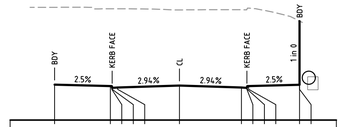
CH 49.29




RL47.75

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PROPOSED SURFACE LEVEL | 50.72 | 50.61 | 50.61 | 50.46 | 50.50 | 50.65 | 50.50 | 50.61 | 50.71 |
| | | 50.61 | 50.61 | 50.46 | 50.50 | | 50.46 | 50.61 | 53.84 |
| EXISTING SURFACE LEVEL | 54.02 | 53.94 | 53.94 | 53.94 | 53.94 | 53.96 | 54.05 | 54.21 | 53.84 |
| | | 53.94 | 53.94 | 53.94 | 53.94 | | 54.21 | 54.21 | 53.84 |
| CENTRELINE OFFSET | -10.20 | -5.65 | -5.53 | -5.50 | -5.05 | 0.00 | 5.05 | 5.50 | 9.80 |
| | | -5.65 | -5.53 | -5.50 | -5.05 | | 5.05 | 5.50 | 9.80 |

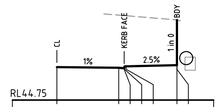
CH 70




RL46.00

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PROPOSED SURFACE LEVEL | 47.88 | 47.77 | 47.77 | 47.62 | 47.66 | 47.81 | 47.66 | 47.77 | 47.87 |
| | | 47.77 | 47.77 | 47.62 | 47.66 | | 47.62 | 47.77 | 53.07 |
| EXISTING SURFACE LEVEL | 54.20 | 54.07 | 54.08 | 54.08 | 54.08 | 53.98 | 54.00 | 54.03 | 53.07 |
| | | 54.08 | 54.08 | 54.08 | 54.08 | | 54.10 | 54.13 | 53.07 |
| CENTRELINE OFFSET | -10.20 | -5.65 | -5.53 | -5.50 | -5.05 | 0.00 | 5.05 | 5.50 | 9.80 |
| | | -5.65 | -5.53 | -5.50 | -5.05 | | 5.05 | 5.50 | 9.80 |

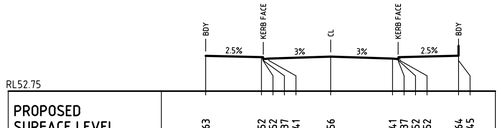
CH 100




RL44.75

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PROPOSED SURFACE LEVEL | 47.43 | 47.38 | 47.34 | 47.49 | 47.49 | | | | 47.60 |
| | | | | | | | | | 51.27 |
| EXISTING SURFACE LEVEL | | 51.68 | 51.64 | 51.64 | 51.65 | | | | 51.27 |
| | | | | | | | | | 51.27 |
| CENTRELINE OFFSET | 0.00 | 5.05 | 5.50 | 5.53 | 5.65 | | | | 9.80 |
| | | | | | | | | | 9.80 |

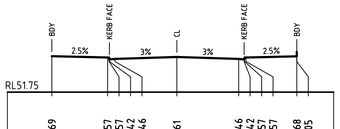
CH 114.37




RL52.75

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PROPOSED SURFACE LEVEL | 55.63 | 55.52 | 55.52 | 55.37 | 55.41 | 55.56 | 55.41 | 55.52 | 55.64 |
| | | 55.52 | 55.52 | 55.37 | 55.41 | | 55.37 | 55.52 | 56.45 |
| EXISTING SURFACE LEVEL | 53.94 | 53.94 | 53.94 | 53.94 | 53.95 | 54.00 | 55.49 | 55.50 | 56.45 |
| | | 53.94 | 53.94 | 53.94 | 53.95 | | 55.50 | 55.50 | 56.45 |
| CENTRELINE OFFSET | -10.20 | -5.65 | -5.53 | -5.50 | -5.05 | 0.00 | 5.05 | 5.50 | 10.44 |
| | | -5.65 | -5.53 | -5.50 | -5.05 | | 5.05 | 5.50 | 10.44 |

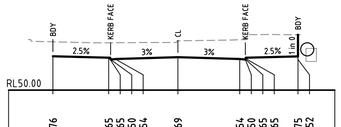
CH 9.52




RL51.75

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PROPOSED SURFACE LEVEL | 54.69 | 54.57 | 54.57 | 54.42 | 54.46 | 54.61 | 54.46 | 54.57 | 54.68 |
| | | 54.57 | 54.57 | 54.42 | 54.46 | | 54.42 | 54.57 | 55.05 |
| EXISTING SURFACE LEVEL | 54.00 | 53.99 | 53.99 | 53.99 | 53.99 | 53.98 | 53.99 | 54.14 | 54.52 |
| | | 53.99 | 53.99 | 53.99 | 53.99 | | 54.14 | 54.14 | 54.52 |
| CENTRELINE OFFSET | -10.20 | -5.65 | -5.53 | -5.50 | -5.05 | 0.00 | 5.05 | 5.50 | 9.80 |
| | | -5.65 | -5.53 | -5.50 | -5.05 | | 5.05 | 5.50 | 9.80 |

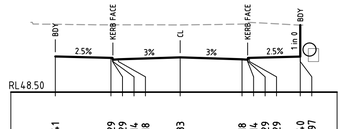
CH 20




RL50.00

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PROPOSED SURFACE LEVEL | 52.76 | 52.65 | 52.65 | 52.50 | 52.54 | 52.69 | 52.54 | 52.65 | 52.75 |
| | | 52.65 | 52.65 | 52.50 | 52.54 | | 52.65 | 52.65 | 54.52 |
| EXISTING SURFACE LEVEL | 53.94 | 53.87 | 53.87 | 53.87 | 53.87 | 54.02 | 54.11 | 54.12 | 54.52 |
| | | 53.87 | 53.87 | 53.87 | 53.87 | | 54.12 | 54.28 | 54.52 |
| CENTRELINE OFFSET | -10.20 | -5.65 | -5.53 | -5.50 | -5.05 | 0.00 | 5.05 | 5.50 | 9.80 |
| | | -5.65 | -5.53 | -5.50 | -5.05 | | 5.05 | 5.50 | 9.80 |

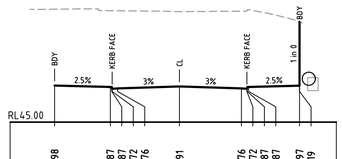
CH 41.72




RL48.50

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PROPOSED SURFACE LEVEL | 51.41 | 51.29 | 51.29 | 51.14 | 51.18 | 51.33 | 51.18 | 51.29 | 51.40 |
| | | 51.29 | 51.29 | 51.14 | 51.18 | | 51.14 | 51.29 | 53.97 |
| EXISTING SURFACE LEVEL | 54.04 | 53.99 | 53.99 | 53.99 | 53.99 | 53.99 | 54.05 | 54.20 | 53.97 |
| | | 53.99 | 53.99 | 53.99 | 53.99 | | 54.20 | 54.19 | 53.97 |
| CENTRELINE OFFSET | -10.20 | -5.65 | -5.53 | -5.50 | -5.05 | 0.00 | 5.05 | 5.50 | 9.80 |
| | | -5.65 | -5.53 | -5.50 | -5.05 | | 5.05 | 5.50 | 9.80 |

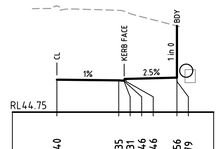
CH 62.79




RL45.00

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PROPOSED SURFACE LEVEL | 47.98 | 47.87 | 47.87 | 47.72 | 47.76 | 47.91 | 47.76 | 47.87 | 47.97 |
| | | 47.87 | 47.87 | 47.72 | 47.76 | | 47.72 | 47.87 | 53.19 |
| EXISTING SURFACE LEVEL | 54.22 | 54.10 | 54.09 | 54.09 | 54.09 | 54.02 | 54.05 | 54.07 | 53.19 |
| | | 54.09 | 54.09 | 54.09 | 54.09 | | 54.07 | 54.14 | 53.19 |
| CENTRELINE OFFSET | -10.20 | -5.65 | -5.53 | -5.50 | -5.05 | 0.00 | 5.05 | 5.50 | 9.80 |
| | | -5.65 | -5.53 | -5.50 | -5.05 | | 5.05 | 5.50 | 9.80 |

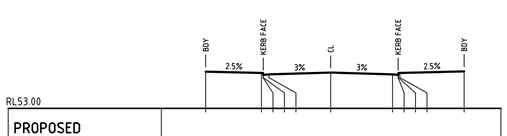
CH 98.86




RL44.75

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PROPOSED SURFACE LEVEL | 47.40 | 47.35 | 47.31 | 47.46 | 47.46 | | | | 47.56 |
| | | | | | | | | | 51.79 |
| EXISTING SURFACE LEVEL | 53.38 | 53.05 | 52.98 | 52.97 | 52.92 | | | | 51.79 |
| | | | | | | | | | 51.79 |
| CENTRELINE OFFSET | 0.00 | 5.05 | 5.50 | 5.53 | 5.65 | | | | 9.80 |
| | | | | | | | | | 9.80 |

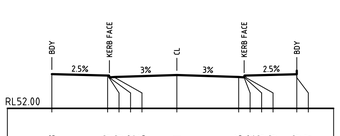
CH 110.86




RL53.00

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PROPOSED SURFACE LEVEL | 55.99 | 55.88 | 55.88 | 55.73 | 55.77 | 55.92 | 55.77 | 55.88 | 56.01 |
| | | 55.88 | 55.88 | 55.73 | 55.77 | | 55.73 | 55.88 | 56.01 |
| EXISTING SURFACE LEVEL | 56.26 | 56.21 | 56.22 | 56.23 | 56.28 | | 56.36 | 56.39 | -3.71 |
| | | 56.21 | 56.22 | 56.23 | 56.28 | | 56.39 | 56.40 | -3.71 |
| CENTRELINE OFFSET | -10.20 | -5.65 | -5.53 | -5.50 | -5.05 | 0.00 | 5.05 | 5.50 | 10.90 |
| | | -5.65 | -5.53 | -5.50 | -5.05 | | 5.05 | 5.50 | 10.90 |

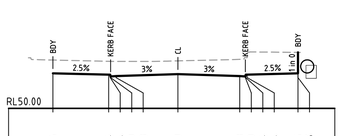
CH 2.41




RL52.00

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PROPOSED SURFACE LEVEL | 54.78 | 54.67 | 54.67 | 54.52 | 54.56 | 54.71 | 54.56 | 54.67 | 54.77 |
| | | 54.67 | 54.67 | 54.52 | 54.56 | | 54.52 | 54.67 | 55.07 |
| EXISTING SURFACE LEVEL | 54.01 | 54.01 | 54.01 | 54.01 | 54.00 | 53.99 | 54.00 | 54.14 | 55.07 |
| | | 54.01 | 54.01 | 54.01 | 54.00 | | 54.14 | 54.45 | 55.07 |
| CENTRELINE OFFSET | -10.20 | -5.65 | -5.53 | -5.50 | -5.05 | 0.00 | 5.05 | 5.50 | 9.80 |
| | | -5.65 | -5.53 | -5.50 | -5.05 | | 5.05 | 5.50 | 9.80 |

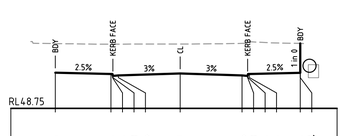
CH 19.02




RL50.00

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PROPOSED SURFACE LEVEL | 52.86 | 52.74 | 52.74 | 52.59 | 52.63 | 52.79 | 52.63 | 52.74 | 52.85 |
| | | 52.74 | 52.74 | 52.59 | 52.63 | | 52.59 | 52.74 | 54.56 |
| EXISTING SURFACE LEVEL | 53.94 | 53.83 | 53.83 | 53.83 | 53.82 | 53.87 | 53.99 | 54.14 | 54.56 |
| | | 53.83 | 53.83 | 53.83 | 53.82 | | 53.99 | 54.14 | 54.56 |
| CENTRELINE OFFSET | -10.20 | -5.65 | -5.53 | -5.50 | -5.05 | 0.00 | 5.05 | 5.50 | 9.80 |
| | | -5.65 | -5.53 | -5.50 | -5.05 | | 5.05 | 5.50 | 9.80 |

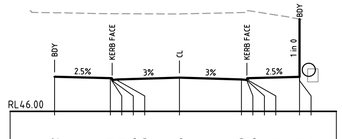
CH 40




RL48.75

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PROPOSED SURFACE LEVEL | 5166 | 5155 | 5155 | 5140 | 5144 | 51.59 | 51.44 | 51.40 | 5165 |
| | | 5155 | 5155 | 5140 | 5144 | | 51.40 | 5155 | 5165 |
| EXISTING SURFACE LEVEL | 54.03 | 53.99 | 53.99 | 53.99 | 53.99 | 53.99 | 54.04 | 54.19 | 54.04 |
| | | 53.99 | 53.99 | 53.99 | 53.99 | | 54.19 | 54.19 | 54.04 |
| CENTRELINE OFFSET | -10.20 | -5.65 | -5.53 | -5.50 | -5.05 | 0.00 | 5.05 | 5.50 | 9.80 |
| | | -5.65 | -5.53 | -5.50 | -5.05 | | 5.05 | 5.50 | 9.80 |

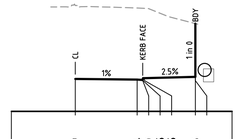
CH 60




RL46.00

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PROPOSED SURFACE LEVEL | 48.82 | 48.71 | 48.71 | 48.56 | 48.60 | 48.75 | 48.60 | 48.56 | 48.71 |
| | | 48.71 | 48.71 | 48.56 | 48.60 | | 48.56 | 48.71 | 48.81 |
| EXISTING SURFACE LEVEL | 54.04 | 53.97 | 53.97 | 53.97 | 53.96 | 53.95 | 54.06 | 54.18 | 54.21 |
| | | 53.97 | 53.97 | 53.97 | 53.96 | | 54.18 | 54.21 | 53.52 |
| CENTRELINE OFFSET | -10.20 | -5.65 | -5.53 | -5.50 | -5.05 | 0.00 | 5.05 | 5.50 | 9.80 |
| | | -5.65 | -5.53 | -5.50 | -5.05 | | 5.05 | 5.50 | 9.80 |

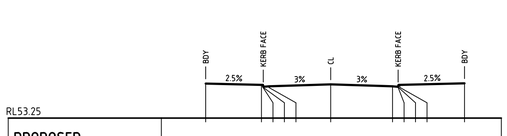
CH 90




RL44.75

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PROPOSED SURFACE LEVEL | 47.39 | 47.34 | 47.30 | 47.45 | 47.45 | | | | 47.56 |
| | | | | | | | | | 51.91 |
| EXISTING SURFACE LEVEL | 53.38 | 53.18 | 53.16 | 53.16 | 53.15 | | | | 51.91 |
| | | | | | | | | | 51.91 |
| CENTRELINE OFFSET | 0.00 | 5.05 | 5.50 | 5.53 | 5.65 | | | | 9.80 |
| | | | | | | | | | 9.80 |

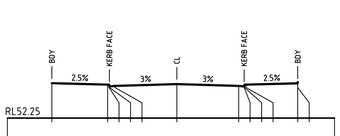
CH 110




RL53.25

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PROPOSED SURFACE LEVEL | 56.07 | 55.96 | 55.96 | 55.81 | 55.85 | 56.00 | 55.85 | 55.96 | 56.09 |
| | | 55.96 | 55.96 | 55.81 | 55.85 | | 55.81 | 55.96 | |
| EXISTING SURFACE LEVEL | | | -3.80 | -3.76 | | -3.61 | -3.76 | -3.65 | -3.56 |
| CENTRELINE OFFSET | -10.20 | -5.65 | -5.53 | -5.50 | -5.05 | 0.00 | 5.05 | 5.50 | 10.93 |
| | | -5.65 | -5.53 | -5.50 | -5.05 | | 5.05 | 5.50 | 10.93 |

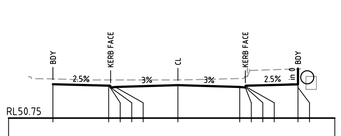
CH 0




RL52.25

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PROPOSED SURFACE LEVEL | 55.10 | 54.99 | 54.99 | 54.84 | 54.88 | 55.03 | 54.88 | 54.99 | 55.09 |
| | | 54.99 | 54.99 | 54.84 | 54.88 | | 54.84 | 54.99 | 55.19 |
| EXISTING SURFACE LEVEL | 54.01 | 54.01 | 54.01 | 54.01 | 54.01 | 54.01 | 54.02 | 54.16 | 55.19 |
| | | 54.01 | 54.01 | 54.01 | 54.01 | | 54.16 | 54.16 | 55.19 |
| CENTRELINE OFFSET | -10.20 | -5.65 | -5.53 | -5.50 | -5.05 | 0.00 | 5.05 | 5.50 | 9.87 |
| | | -5.65 | -5.53 | -5.50 | -5.05 | | 5.05 | 5.50 | 9.87 |

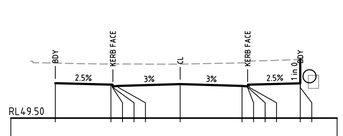
CH 15.86




RL50.75

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PROPOSED SURFACE LEVEL | 53.51 | 53.40 | 53.40 | 53.25 | 53.29 | 53.44 | 53.29 | 53.40 | 53.50 |
| | | 53.40 | 53.40 | 53.25 | 53.29 | | 53.25 | 53.40 | 54.76 |
| EXISTING SURFACE LEVEL | 53.95 | 53.86 | 53.86 | 53.86 | 53.86 | 53.87 | 53.98 | 54.13 | 54.76 |
| | | 53.86 | 53.86 | 53.86 | 53.86 | | 54.13 | 54.33 | 54.76 |
| CENTRELINE OFFSET | -10.20 | -5.65 | -5.53 | -5.50 | -5.05 | 0.00 | 5.05 | 5.50 | 9.80 |
| | | -5.65 | -5.53 | -5.50 | -5.05 | | 5.05 | 5.50 | 9.80 |

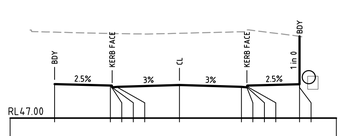
CH 31.72




RL49.50

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PROPOSED SURFACE LEVEL | 52.35 | 52.24 | 52.24 | 52.09 | 52.13 | 52.28 | 52.13 | 52.24 | 52.34 |
| | | 52.24 | 52.24 | 52.09 | 52.13 | | 52.09 | 52.24 | 54.28 |
| EXISTING SURFACE LEVEL | 53.99 | 53.92 | 53.92 | 53.92 | 53.92 | 53.91 | 54.01 | 54.14 | 54.28 |
| | | 53.92 | 53.92 | 53.92 | 53.92 | | 54.14 | 54.15 | 54.28 |
| CENTRELINE OFFSET | -10.20 | -5.65 | -5.53 | -5.50 | -5.05 | 0.00 | 5.05 | 5.50 | 9.80 |
| | | -5.65 | -5.53 | -5.50 | -5.05 | | 5.05 | 5.50 | 9.80 |

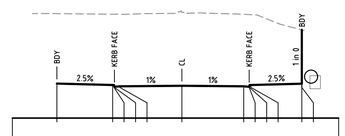
CH 50




RL47.00

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PROPOSED SURFACE LEVEL | 49.77 | 49.66 | 49.66 | 49.51 | 49.55 | 49.70 | 49.55 | 49.66 | 49.76 |
| | | 49.66 | 49.66 | 49.51 | 49.55 | | 49.51 | 49.66 | 53.67 |
| EXISTING SURFACE LEVEL | 54.02 | 53.91 | 53.90 | 53.90 | 53.90 | 53.92 | 54.04 | 54.19 | 53.67 |
| | | 53.90 | 53.90 | 53.90 | 53.90 | | 54.19 | 54.20 | 53.67 |
| CENTRELINE OFFSET | -10.20 | -5.65 | -5.53 | -5.50 | -5.05 | 0.00 | 5.05 | 5.50 | 9.80 |
| | | -5.65 | -5.53 | -5.50 | -5.05 | | 5.05 | 5.50 | 9.80 |

CH 80




RL47.00

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PROPOSED SURFACE LEVEL | 47.57 | 47.45 | 47.45 | 47.30 | 47.34 | 47.39 | 47.34 | 47.30 | 47.45 |
| | | | | | | | | | 47.56 |
| EXISTING SURFACE LEVEL | 53.28 | 53.23 | 53.23 | 53.23 | 53.22 | 53.37 | 53.22 | 53.20 | 53.19 |
| | | | | | | | | | 51.95 |
| CENTRELINE OFFSET | -10.20 | -5.65 | -5.53 | -5.50 | -5.05 | 0.00 | 5.05 | 5.50 | 9.80 |
| | | | | | | | | | 9.80 |

CH 109.72

| Issue | Description | Date |
|---|---|---|
| C | REISSUED FOR APPROVAL | 29-10-18 |
| B | REISSUED FOR APPROVAL | 06-09-18 |
| A | ISSUED FOR APPROVAL | 09-03-17 |

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

Client: Goodman

| Scales | 1:2□□ □ A1 | Drawn | ASD |
|---|---|---|---|
| | | Designed | ASD |
| Grid | MGA | Checked | MM |
| Height Datum | AHD | Approved | G□ |

Project
□□ WATERLOO ROAD□NORTH RYDE□NSW□211□
PROPOSED DEVELOPMENT

Title
PROPOSED ROAD □1
CROSS SECTIONS

C□□□E□□□□□r□ □□d Pr□□□□M□□□□□r□
at&l
L□□□□□□1□□W□□□r S□□□
N□r□S□d□□□NSW 2□□□
ABN □□1□□ □□2 □□□
T□□□ □2 □□□□ 1□□□
F□□□ □2 □□2□1□□□
□□□ □□□□□□□□□
□□□□ □□□□□□□

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

| Drawing No. | Project No. | Issue |
|---|---|---|
| 1□-□2□-DAC□2□ | 1□-□2□ | C |

100mm on Original

Date Plotted: 29 Oct 2018 - 02:54PM File Name: F:\16-420 Waterloo Road\Drgs\Civil\Final\16-420-DAC025.dwg

PROPOSED ROAD 1

EXISTING ROAD 1

KHARTOUM CORPORATE CENTRE WORKS CENTRE

PROPOSED ROAD BY OTHERS

BULK EARTHWORKS BASEMENT LEVEL BE.36.50

RAISED CONCRETE LOADING DOCK

311°02'20"

221°00'30"

131°46'

41°04'50"

## CUT AND FILL

| Lower value | | Upper value | | Colour |
|---|---|---|---|---|
| -20.0 | to | -7.5 | m | |
| -7.5 | to | -7.0 | m | |
| -7.0 | to | -6.5 | m | |
| -6.5 | to | -6.0 | m | |
| -6.0 | to | -5.5 | m | |
| -5.5 | to | -5.0 | m | |
| -5.0 | to | -4.5 | m | |
| -4.5 | to | -4.0 | m | |
| -4.0 | to | -3.5 | m | |
| -3.5 | to | -3.0 | m | |
| -3.0 | to | -2.5 | m | |
| -2.5 | to | -2.0 | m | |
| -2.0 | to | -1.5 | m | |
| -1.5 | to | -1.0 | m | |
| -1.0 | to | -0.5 | m | |
| -0.5 | to | 0.0 | m | |
| 0.0 | to | 0.5 | m | |
| 0.5 | to | 1.0 | m | |
| 1.0 | to | 1.5 | m | |
| 1.5 | to | 2.0 | m | |
| 2.0 | to | 2.5 | m | |
| 2.5 | to | 3.0 | m | |
| 3.0 | to | 3.5 | m | |
| 3.5 | to | 4.0 | m | |
| 4.0 | to | 4.5 | m | |
| 4.5 | to | 5.0 | m | |
| 5.0 | to | 5.5 | m | |
| 5.5 | to | 6.0 | m | |
| 6.0 | to | 6.5 | m | |

## EARTHWORKS VOLUMES

| NET CUT (cu.m) | NET FILL (cu.m) | BALANCE (cu.m) |
|---|---|---|
| -7,613 | +624 | -6,989 |

NOTES:

1. VOLUMES HAVCE BEEN CALCULATED BETWEEN THE EXISTING SURFACE LEVEL AND 690mm BELOW THE PROPOSED FINISHED SURFACE LEVEL
2. THE VOLUMES DO NOT TAKE INTO ACCOUNT THE FOLLOWING :-

- BULKING FACTORS OF REMOVED CUT
- REMOVAL OF EXISTING BUILDING SLABS AND PAVEMENTS
- REMOVAL AND\OR REMEDIATION OF ANY EXISTING UNCONTROLLED FILL
- PROPOSED LANDSCAPING
- PROPOSED RETAINING WALL EARTHWORKS AND BACKFILL MATERIAL

| Issue | Description | Date |
|---|---|---|
| C | REISSUED FOR APPROVAL | 29-10-18 |
| B | REISSUED FOR APPROVAL | 06-09-18 |
| A | ISSUED FOR APPROVAL | 17-03-17 |

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

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Client: Goodman

Scales: 1 □2□□ □ A1

Grid: MGA

Height Datum: AHD

| | |
|---|---|
| Drawn | ASD |
| Designed | ASD |
| Checked | MM |
| Approved | G□ |

Project: □□ WATERLOO ROAD□NORTH RYDE□NSW□211□ PROPOSED DEVELOPMENT

Title: BULK EARTHWORKS CUT FILL PLAN

at&l
L□□□□□□1□□W□□□r S□□□□
N□r□□S□d□□□NSW 2□□□
ABN □□ 1□□ □□2 □□□
T□□□ □2 □□□□1□□□
F□□□ □2 □□2□1□□□
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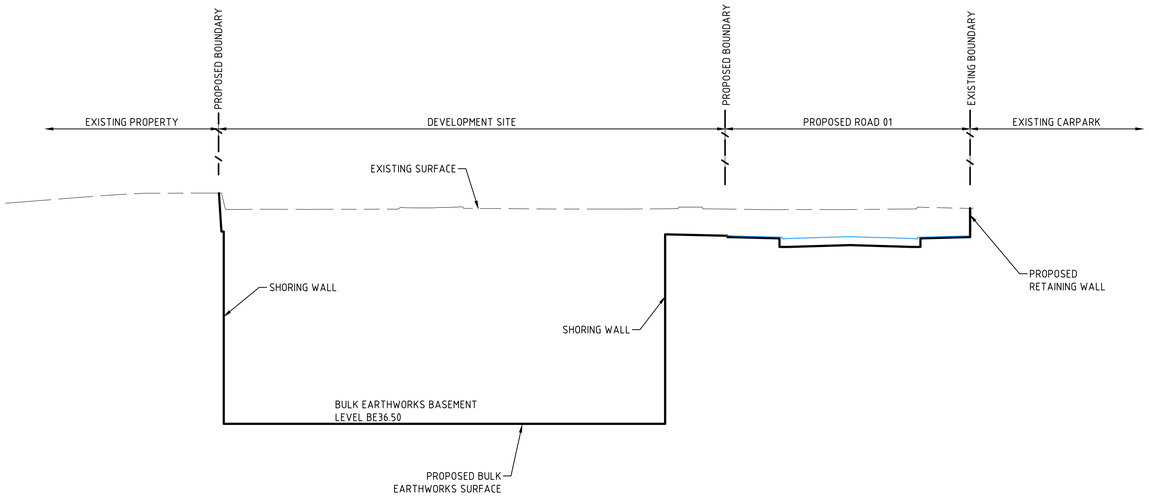
Status: FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION

A1

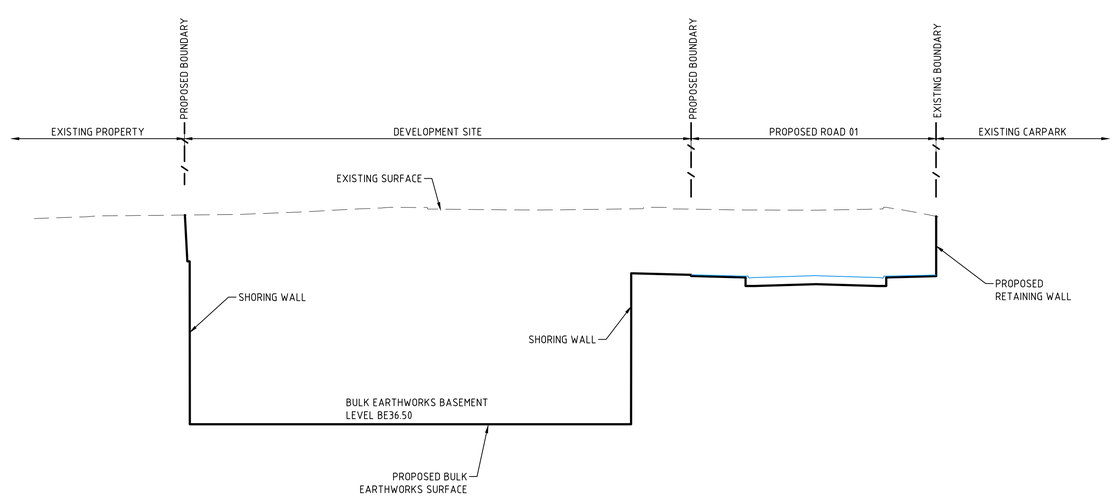
| Drawing No. | Project No. | Issue |
|---|---|---|
| 1□-□2□-DAC□□□ | 1□-□2□ | C |

100mm on Original

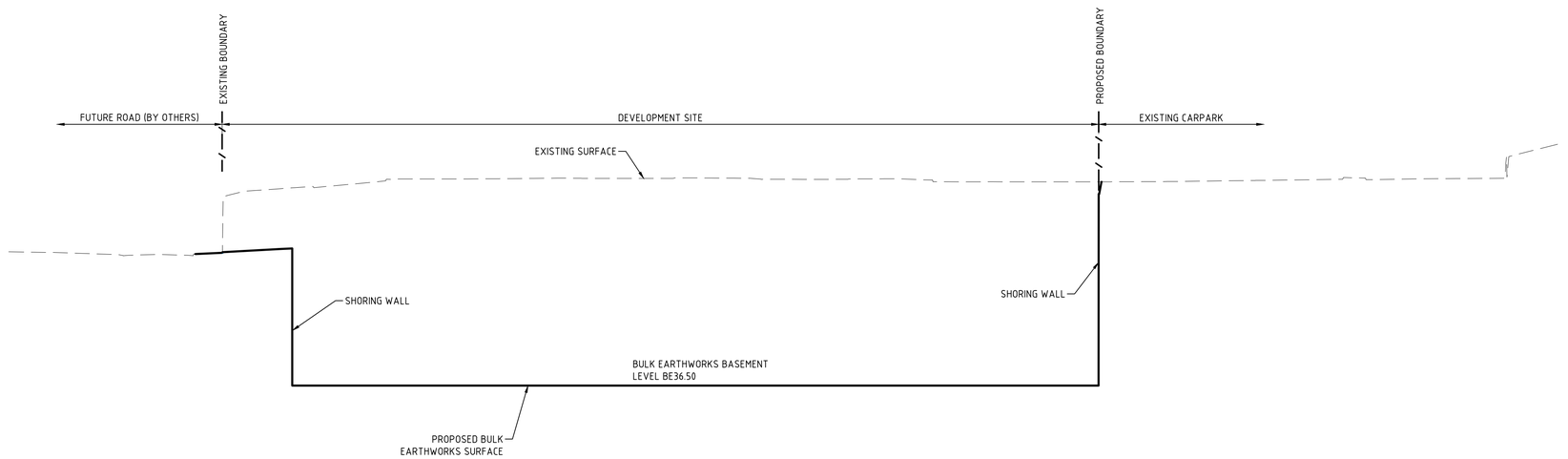
Date Plotted: 29 Oct 2018 - 02:54PM File Name: F:\16-420 Waterloo Road\Drgs\Civil\Final\16-420-DAC030.dwg




SECTION 2
H 1:250, V 1:250 DAC030




SECTION 3
H 1:250, V 1:250 DAC030




SECTION 1
H 1:250, V 1:250 DAC030

| Issue | Description | Date |
|---|---|---|
| C | REISSUED FOR APPROVAL | 29-10-18 |
| B | REISSUED FOR APPROVAL | 06-09-18 |
| A | ISSUED FOR APPROVAL | 17-03-17 |

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

Client

Goodman

| Scales | | Drawn | ASD |
|---|---|---|---|
| 1□2□□ H □ A1<br>1□2□□V □ A1 | | Designed | ASD |
| Grid | MGA | Checked | MM |
| Height Datum | AHD | Approved | G□ |

Project

□□ WATERLOO ROAD□NORTH
RYDE□NSW□211□
PROPOSED DEVELOPMENT

Title

BULK EARTHWORKS
SITE SECTIONS

C□□□E□□□□□r□ □□d Pr□□□□M□□□□□r□
at&l
L□□□□□□1□□W□□□r S□□□□
N□r□□S□d□□□NSW 2□□□
ABN □□1□□ □□2 □□□
T□□□ □2 □□□□ 1□□□
F□□□ □2 □□2□1□□□
□□□ □□□□□□□□□
□□□□ □□□□□□□

Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

| Drawing No. | Project No. | Issue |
|---|---|---|
| 1□-□2□-DAC□□1 | 1□-□2□ | C |

100mm on Original

F:\16-420 Waterloo Road\Drgs\Civil\Final\16-420-DAC031.dwg

## PAVEMENT MARKING LEGEND

**BARRIER LINES**

BB — BB

**TRANSVERSE LINES**

**GIVEWAY LINE**

TB — TB

TB1 — TB1

**EDGE LINES**

E1 — E1

NOTES:

1. ALL SIGNAGE TO BE IN ACCORDANCE WITH THE AUSTRALIAN STANDARD AS 1742.
2. ALL PAVEMENT MARKING TO BE IN ACCORDANCE WITH THE RMS DELINEATION MANUAL.
3. TRANSITION LINEMARKING TO SUIT EXISTING WHERE REQUIRED.
4. RELOCATE/ REMOVE EXISTING SIGNS AS REQUIRED.
5. REMOVE ALL REDUNDANT PAVEMENT MARKING AS REQUIRED.
6. PROVIDE ADEQUATE APPROACH WARNING SIGNS DURING AND AFTER CONSTRUCTION.
7. ALL LINEMARKING TO BE WHITE IN COLOUR
8. NOMINATE PAVEMENT MARKING TYPE.

EXISTING

DRIVEWAY

KHARTOUM CORPORATE CENTRE □WORKS COMPLETE□

NO STOPPING R5-400 L

1 □P TICKET R5-14(R)

1 □P TICKET R5-14

1 □P TICKET R5-14(L)

NO STOPPING R5-400 R

NO STOPPING R5-400

TR10 16H

TB1 - 7.7m LONG

TB - 11.7m LONG

BB - 65.5m LONG

E1 - 124.5m LONG

BB - 41.2m LONG

E1 - 70.0m LONG

E1 - 44.5m LONG

6m (TYP)

2m (TYP)

PROPOSED ROAD □1

EXISTING ROAD □1

GIVE WAY R1-2

ONE WAY R2-2(R)

EXISTING 'RIGHT TURN ONLY' SIGNAGE TO BE REMOVED

PROPOSED □□Z DEVELOPMENT SITE

PROPOSED ROAD

BY OTHERS □

PROPOSED LOT

ON-LOT WORKS AS PART OF SEPARATE APPROVAL

ONLY R2-14(R)

EXISTING CHEVRON LINEMARKING TO BE REMOVED IN ACCORDANCE RMS DELINEATION MANUAL.

EXISTING 'NO STOPPING' AND '10P PARKING' SIGN TO BE REMOVED. EXISTING SIGN POST AND SIGNAGE TO BE REUSED

| Issue | Description | Date |
|---|---|---|
| C | REISSUED FOR APPROVAL | 29-10-18 |
| B | REISSUED FOR APPROVAL | 26-10-18 |
| A | REISSUED FOR APPROVAL | 06-09-18 |

100mm on Original

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

Client: Goodman

Scales: 1□2□□ H □ A1

Grid: MGA

Height Datum: AHD

Drawn: ASD

Designed: ASD

Checked: MM

Approved: G□

Project: □□ WATERLOO ROAD□NORTH RYDE□NSW□211□ PROPOSED DEVELOPMENT

Title: SIGNAGE AND LINEMARKING PLAN

C□□□E□□□□□r□ □□d Pr□□□□M□□□□□r□

at&l

L□□□□□□1□□W□□□r S□□□□ N□r□□ S□d□□□NSW 2□□□

ABN □□ 1□□ □□2 □□□

T□□□ □2 □□□□ 1□□□

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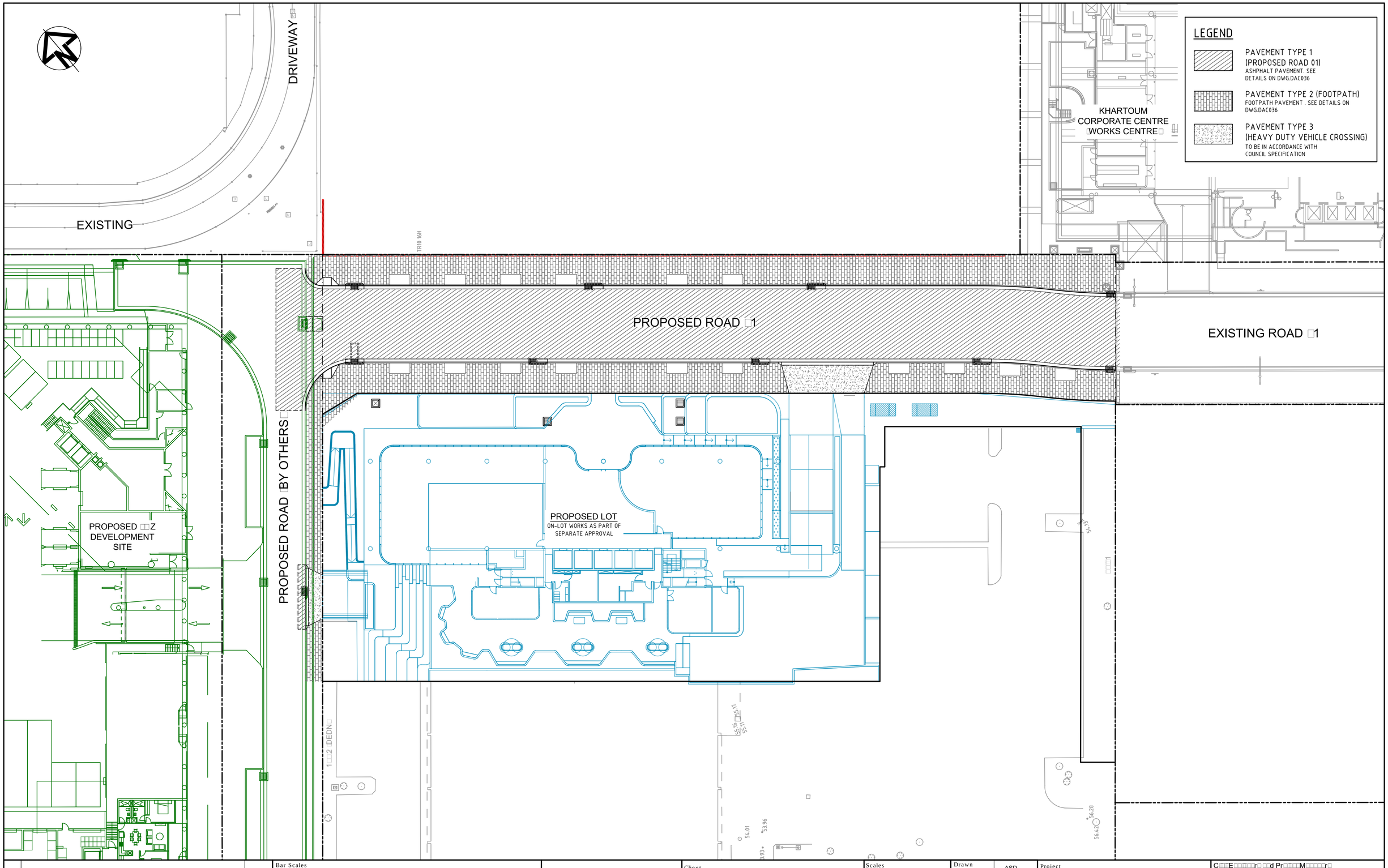
□□□□ □□□□□□□

Status: FOR APPROVAL — NOT TO BE USED FOR CONSTRUCTION

A1

| Drawing No. | Project No. | Issue |
|---|---|---|
| 1□-□2□-DAC□□□ | 1□-□2□ | C |

Date Plotted: 29 Oct 2018 - 03:14PM File Name: F:\16-420 Waterloo Road\Drgs\Civil\Final\16-420-DAC034.dwg




| Issue | Description | Date |
|---|---|---|
| C | REISSUED FOR APPROVAL | 29-10-18 |
| B | REISSUED FOR APPROVAL | 06-09-18 |
| A | ISSUED FOR APPROVAL | 17-03-17 |

Bar Scales

0 5 10 15 20 25m

1:250 @ A1 1:500 @ A3

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Client: Goodman

| Scales | | Drawn | ASD |
|---|---|---|---|
| 1:2□□ H □ A1 | | Designed | ASD |
| Grid | MGA | Checked | MM |
| Height Datum | AHD | Approved | G□ |

Project

□□ WATERLOO ROAD□NORTH
RYDE□NSW□211□
PROPOSED DEVELOPMENT

Title

PAVEMENT PLAN

C□□□E□□□□□r□ □□d Pr□□□□M□□□□□r□

at&l

L□□□□□□1□□W□□□r S□□□□
N□□□ S□d□□□NSW 2□□□
ABN □□ 1□□ □□2 □□□
T□□□ □2 □□□□ 1□□□
F□□□ □2 □□2□ 1□□□
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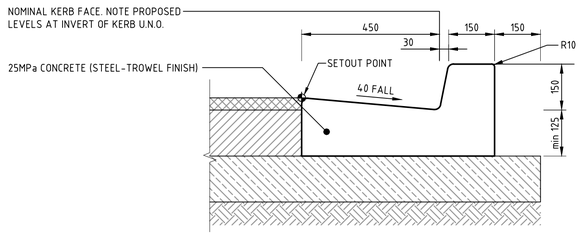
Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

| Drawing No. | Project No. | Issue |
|---|---|---|
| 1□-□2□-DAC□□□ | 1□-□2□ | C |

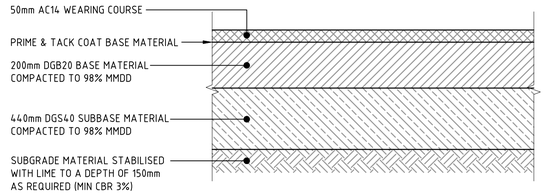
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Date Plotted: 29 Oct 2018 - 02:55PM File Name: F:\16-420 Waterloo Road\Drgs\Civil\Final\16-420-DAC035.dwg



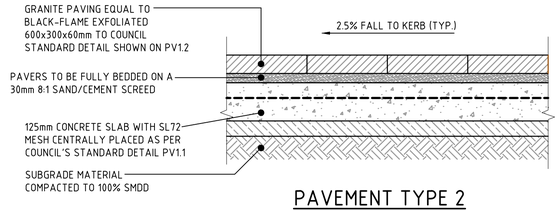

## KERB AND GUTTER (K&G)

SCALE 1:10
EXPANSION JOINTS @ MAX 12m
CTRS,TOOL JOINTS @ MAX 3m CTRS
ALL RADII TO BE 20mm U.N.O.



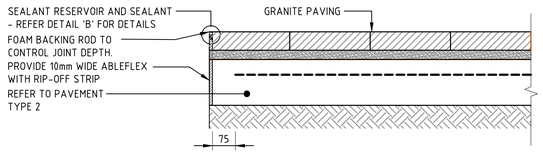

## PAVEMENT TYPE 1

MIN CBR 3% (CONTRACTOR TO CONFIRM ONSITE)
DESIGN LOADING = $1x10^7$ ESA's



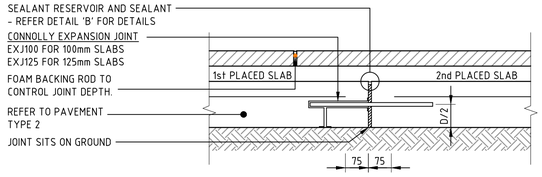

## PAVEMENT TYPE 2

CONTRACTOR TO ALLOW FOR JOINTS - REFER JOINT DETAILS
FINISH SURFACE WITH BROOM OR WOODEN FLOAT



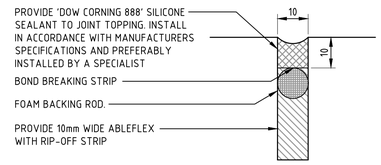

## ISOLATION JOINT 'IJ'

- PROVIDE JOINT BETWEEN ALL NEW CONCRETE AND EXISTING STRUCTURES
- JOINT TO BE USED AGAINST ALL WALLS, FOOTINGS, COLUMNS, BACK OF KERB, SERVICE PITS, DRAINAGE PITS AND ALL SLAB PENETRATIONS

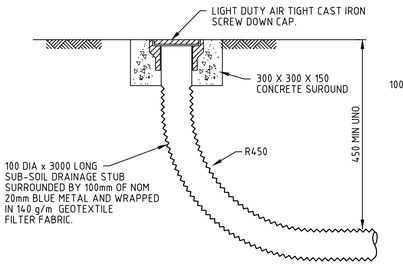



## FOOTPATH EXPANSION JOINT 'EJ'

- TO ALSO BE USED AS A 'STOPWORK JOINT'
- MAXIMUM CONTINUOUS POUR NOT TO EXCEED 36m
- JOINT TO BE INSTALLED TO MANUFACTURERS SPECIFICATIONS
- REFER SPECIFICATION NOTES FOR JOINT SPACINGS (6m UNO)

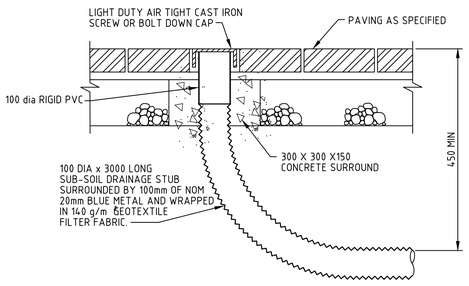



## DETAIL 'B'



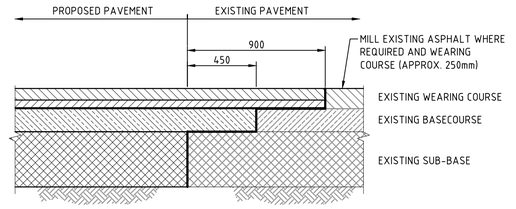

## FLUSHING POINT

SCALE 1:10
NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS MAY BE USED




## FLUSHING POINT IN PAVING

SCALE 1:10
NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS MAY BE USED




## PROPOSED AND EXISTING PAVEMENT INTERFACE TREATMENT

1 : 20

NOTE:
PAVEMENT DESIGN TO BE CONFIRMED BY CITY OF RYDE COUNCIL PRIOR TO CONSTRUCTION

| Issue | Description | Date |
|---|---|---|
| C | REISSUED FOR APPROVAL | 29-10-18 |
| B | REISSUED FOR APPROVAL | 06-09-18 |
| A | ISSUED FOR APPROVAL | 17-03-17 |

Bar Scales

0 100 200 400 600 800 1000mm
1 : 10 @ A1 1 : 20 @ A3

0 500 1000 1500 2000mm
1 : 20 @ A1 1 : 40 @ A3

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Client: Goodman

| Scales | | Drawn | ASD |
|---|---|---|---|
| | AS SHOWN | Designed | ASD |
| Grid | MGA | Checked | MM |
| Height Datum | AHD | Approved | G□ |

Project
□□ WATERLOO ROAD□NORTH
RYDE□NSW□211□
PROPOSED DEVELOPMENT

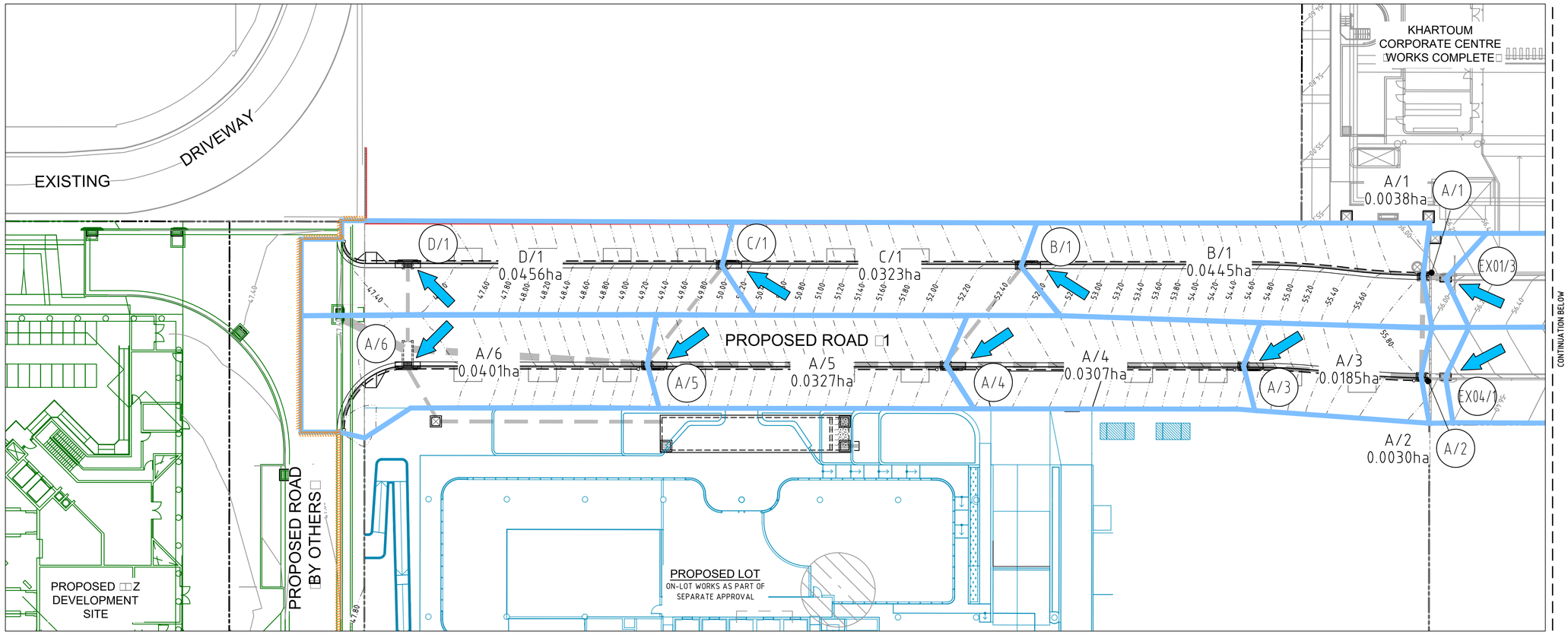
Title
ROADWORKS DETAILS

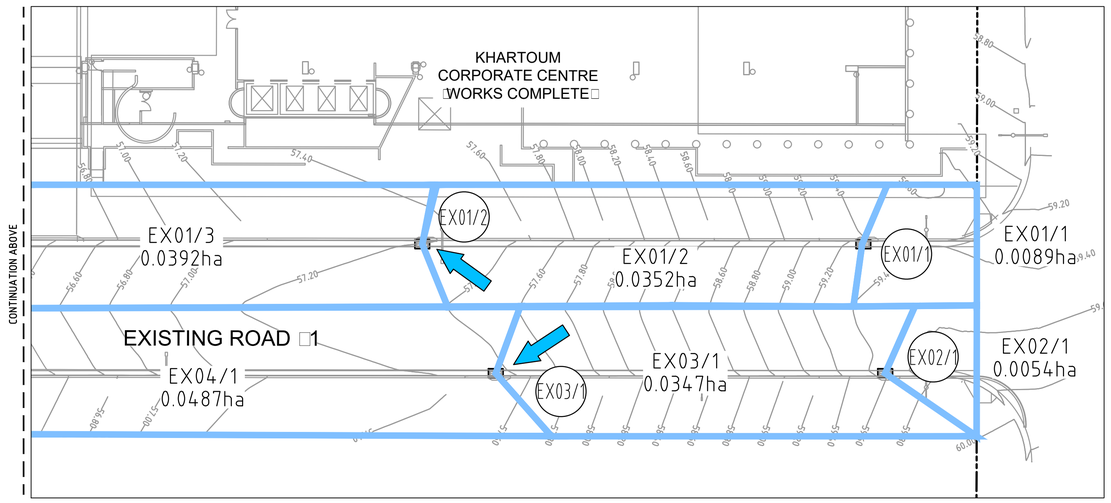
C□□□E□□□□□r□ □□d Pr□□□□M□□□□□r□
at&l
L□□□□□□1□□W□□□r S□□□□
N□r□□S□d□□□NSW 2□□□
ABN □□1□□ □□2 □□□
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Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

| Drawing No. | Project No. | Issue |
|---|---|---|
| 1□-□2□-DAC□□□ | 1□-□2□ | C |




| Issue | Description | Date |
|---|---|---|
| A | ISSUED FOR APPROVAL | 29-10-18 |

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

Client: Goodman

| Scales | | Drawn | ASD |
|---|---|---|---|
| | 1 □2□□ □ A1 | Designed | ASD |
| Grid | MGA | Checked | MM |
| Height Datum | AHD | Approved | G□ |

Project
□□ WATERLOO ROAD□NORTH
RYDE□NSW□211□
PROPOSED DEVELOPMENT

Title
STORMWATER DRAINAGE
CATCHMENT PLAN
SHEET 1

C□□□E□□□□□r□ □□d Pr□□□□M□□□□□r□
at&l
L□□□□□□1□□W□□□r S□□□□
N□□ S□d□□□NSW 2□□□
ABN □□ 1□□ □□2 □□□
T□□□ □2 □□□□ 1□□□
F□□□ □2 □□2□ 1□□□
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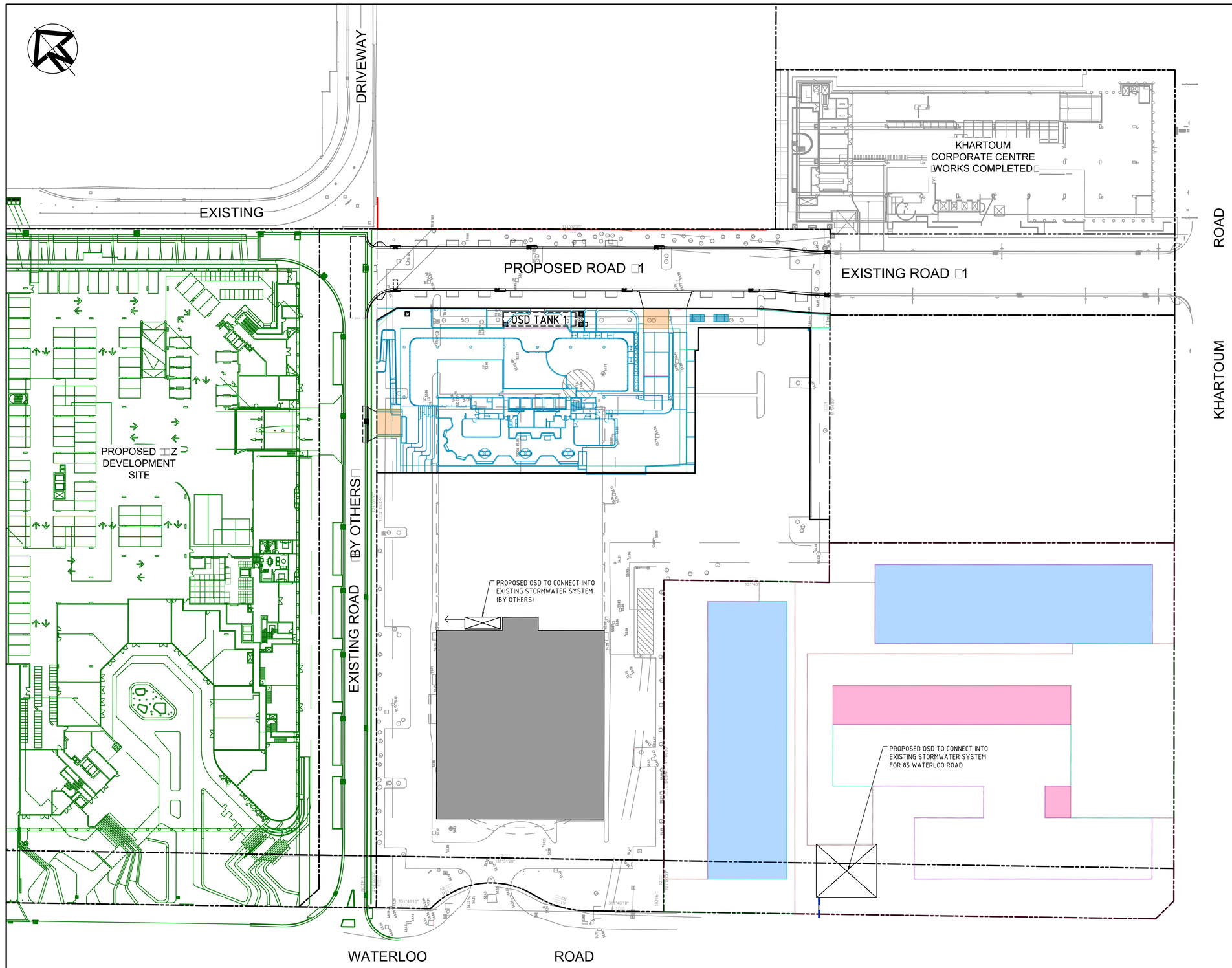
Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

| Drawing No. | Project No. | Issue |
|---|---|---|
| 1□-□2□-DAC□□□ | 1□-□2□ | A |

100mm on Original

Date Plotted: 30 Oct 2018 - 10:01AM File Name: F:\16-420 Waterloo Road\Drgs\Civil\Final\16-420-DAC040.dwg




## CATCHMENT LEGEND (OSD TANK 1)

- ROOF CATCHMENT TO TANK
  CATCHMENT AREA = 2440 m²
- HARDSTAND CATCHMENT TO TANK
  CATCHMENT AREA = 96 m²
- HARDSTAND CATCHMENT BY PASSING TANK
  CATCHMENT AREA = 75 m²
- SOFT LANDSCAPING CATCHMENT (TO BE TREATED)
  CATCHMENT AREA = 820 m²

## CATCHMENT LEGEND (OSD TANK BY OTHERS)

- ROOF CATCHMENT TO TANK
  CATCHMENT AREA = 4790 m²
- HARDSTAND CATCHMENT TO TANK
  CATCHMENT AREA = 4350 m²
- SOFT LANDSCAPING CATCHMENT (TO BE TREATED)
  CATCHMENT AREA = 2550 m²

| Issue | Description | Date |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| C | REISSUED FOR APPROVAL | 29-10-18 |
| B | REISSUED FOR APPROVAL | 06-09-19 |
| A | ISSUED FOR APPROVAL | 17-03-18 |

100mm on Original

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

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Client: Goodman

Scales: 2 □□□□ □ A1

Grid: MGA

Height Datum: AHD

| | |
|---|---|
| Drawn | ASD |
| Designed | ASD |
| Checked | MM |
| Approved | G□ |

Project
□□ WATERLOO ROAD□NORTH
RYDE□NSW□211□
PROPOSED DEVELOPMENT

Title
STORMWATER DRAINAGE
CATCHMENT PLAN
SHEET 2

C□□□E□□□□r□ □□d Pr□□□□M□□□□□r□

at&l

L□□□□□□1□□W□□□r S□□□□
N□r□ S□d□□□NSW 2□□□
ABN □□ 1□ □□2 □□□
T□□□ □2 □□□□ 1□□□
F□□□ □2 □□2□1□□□
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Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

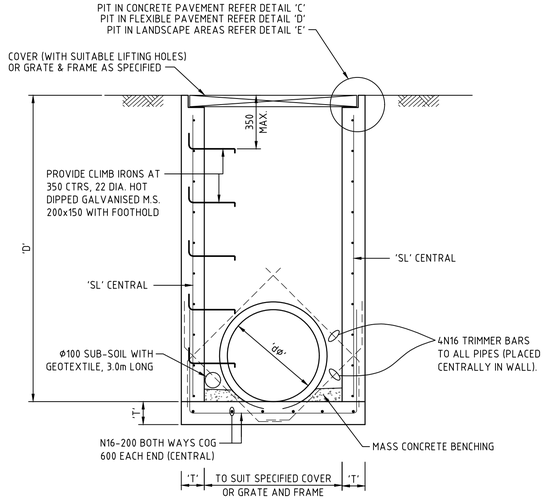
A1

Drawing No.: 1□-□2□-DAC□□1

Project No.: 1□-□2□

Issue: C

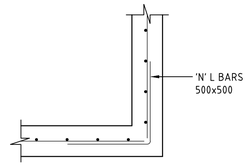
Date Plotted: 29 Oct 2018 - 02:55PM File Name: F:\16-420 Waterloo Road\Drgs\Civil\Final\16-420-DAC041.dwg




## PIT TYPE 'A' DETAIL
## SURFACE INLET PIT
## FOR PIPES UP TO 525Ø

SCALE: 1:20

| PIPE DIA. 'dØ' | WIDTH 'W' | DEPTH 'D' | WALL 'T' | FABRIC/COV 'SL' |
|---|---|---|---|---|
| 375 | 650 | 800 | 150 | SL72 |
| | 650 | 1200 | 150 | SL72 |
| | 650 | 1600 | 150 | SL72 |
| | 650 | 2000 | 150 | SL72 |
| | 650 | 2400 | 150 | SL72 |
| 450 | 650 | 800 | 150 | SL72 |
| | 650 | 1200 | 150 | SL72 |
| | 650 | 1600 | 150 | SL72 |
| | 650 | 2000 | 150 | SL72 |
| | 650 | 2400 | 150 | SL72 |
| 525 | 650 | 800 | 150 | SL72 |
| | 650 | 1200 | 150 | SL72 |
| | 650 | 1600 | 150 | SL72 |
| | 650 | 2000 | 150 | SL72 |
| | 650 | 2400 | 150 | SL72 |




## TYPICAL CORNER DETAIL

SCALE 1:20

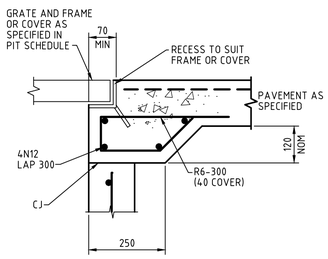
### NOTE

1. FOR PIT SIZE REFER TO TABLE (900 MIN LONG).
2. REINFORCING MESH IS TO BE BENT TO LAP 300 AROUND ALL CORNERS. VERTICAL BARS ARE NOT TO BE CUT. ALTERNATELY PROVIDE N12 "L" BARS (500x500) AT 400 VERTICAL CTS.
3. COMPRESSIVE STRENGTH (F'c) FOR CAST IN SITU CONCRETE SHALL BE A MINIMUM 32 MPa AT 28 DAYS.
4. TOP OF BENCHING SHALL BE ½ OF OUTLET PIPE DIAMETER.
5. 100mm SUBSOIL DRAINAGE PIPE 3000 LONG WRAPPED IN FABRIC SOCK TO BE PROVIDE ADJACENT TO INLET PIPES.
6. ALL PITS SHALL BE PROVIDED WITH A LOCKING CLIP.
7. PIT GRATE TO BE 'WELDLOK' GULLY GRATE GG 78-50 OR APPROVED EQUIVALENT.
8. DURING INSTALLATION OF GRATE AND FRAME CONTRACTOR IS TO ENSURE CLEARANCE BETWEEN LINTEL AND OPENED GRATE (REFER TO INSTALLATION TOLERANCE).
9. PROVIDE STEP IRONS AS INDICATED FOR PITS DEEPER THAN 1200.
10. N12 AT 200 CENTRAL MAY BE USED IN LIEU OF MESH. LAP 500 AT CORNERS
11. CONCRETE STRENGTH - UNLESS NOTED OTHERWISE

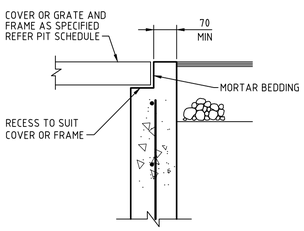
| ELEMENT | f'c MPa (28 DAYS) | SLUMP | MAX AGG SIZE | CEMENT TYPE |
|---|---|---|---|---|
| PITS | 32 | 80mm | 20mm | GP |
| | | | | |

12. COVER - UNLESS NOTED OTHERWISE

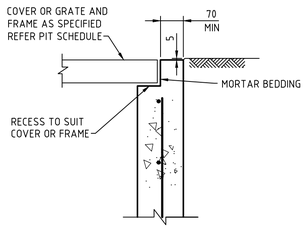
| ELEMENT | INTERIOR | EXTERIOR |
|---|---|---|
| PITS | | 45mm |
| SLAB TOP | 45mm | 45mm |
| SLAB BOTTOM | 45mm | 45mm |
| BEAM TOP | | |
| BEAM BOTTOM | | |
| BEAM SIDE | | |
| COLUMNS | | |




## DETAIL "C"
SCALE 1:10




## DETAIL "D"
SCALE 1:10




## DETAIL "E"
SCALE 1:10

| Issue | Description | Date |
|---|---|---|
| C | REISSUED FOR APPROVAL | 29-10-18 |
| B | REISSUED FOR APPROVAL | 06-09-18 |
| A | ISSUED FOR APPROVAL | 17-03-17 |

100mm on Original

Bar Scales

0 100 200 400 600 800 1000mm

1 : 10 @ A1 1 : 20 @ A3

0 500 1000 1500 2000mm

1 : 20 @ A1 1 : 40 @ A3

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Client: Goodman

| Scales | | Drawn | ASD |
|---|---|---|---|
| | AS SHOWN | Designed | ASD |
| Grid | MGA | Checked | MM |
| Height Datum | AHD | Approved | G□ |

Project

□□ WATERLOO ROAD□NORTH RYDE□NSW□211□
PROPOSED DEVELOPMENT

Title

STORMWATER DRAINAGE DETAILS

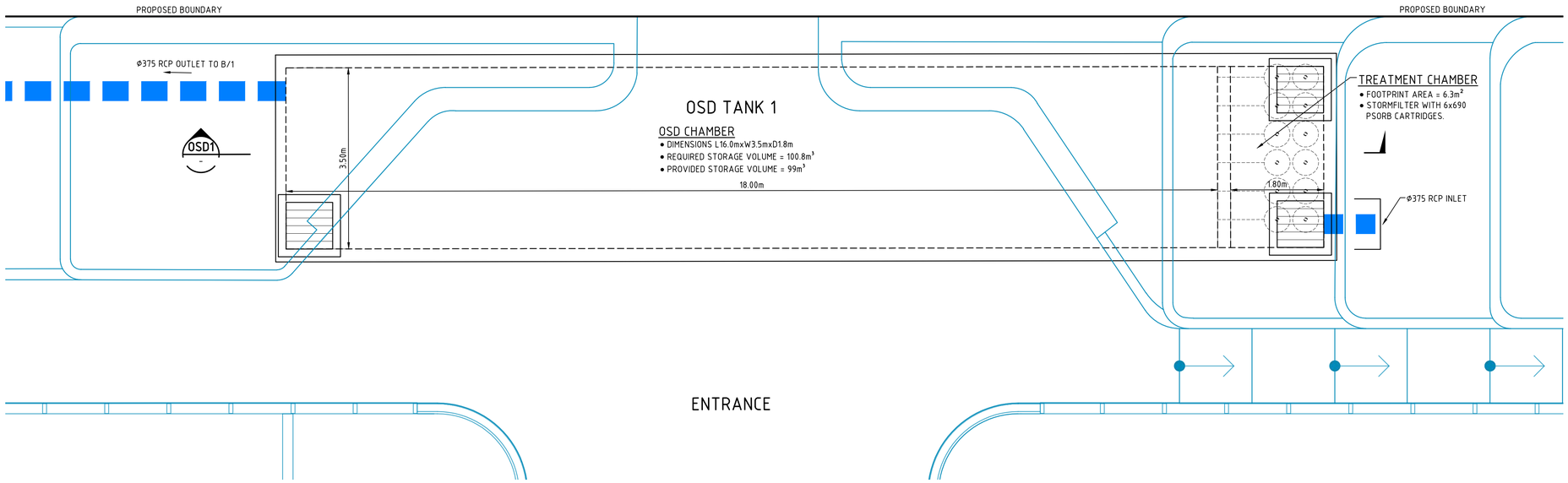
C□□□E□□□□□r□ □□d Pr□□□□M□□□□□r□
at&l
L□□□□□□1□□W□□□r S□□□□
N□r□□ S□d□□□NSW 2□□□
ABN □□ 1□□ □□2 □□□
T□□□ □2 □□□□1□□□
F□□□ □2 □□2□1□□□
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Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

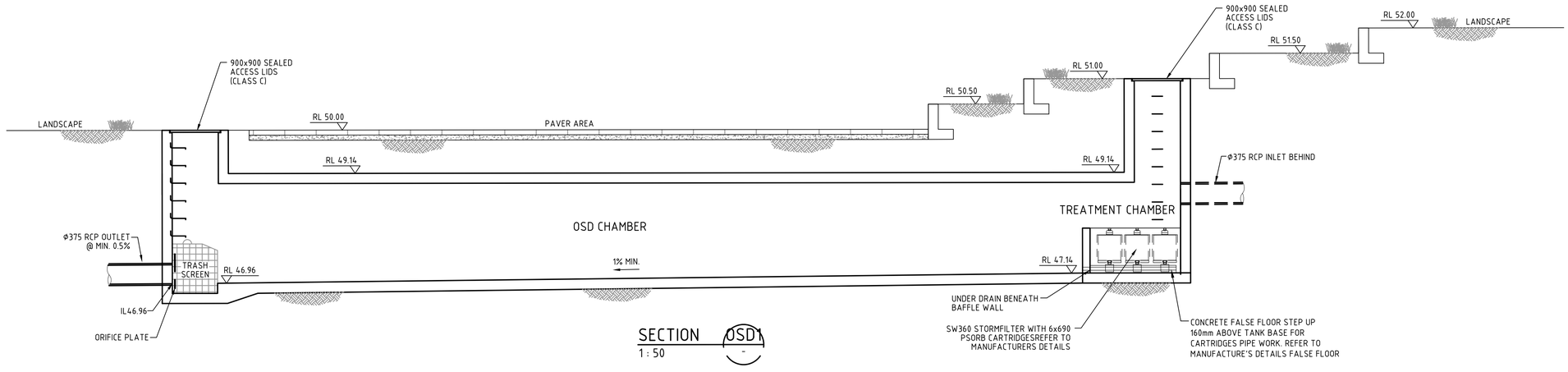
A1

| Drawing No. | Project No. | Issue |
|---|---|---|
| 1□-□2□-DAC□□2 | 1□-□2□ | C |

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OSD TANK 1 PLAN
1 : 50




SECTION OSD1
1 : 50

| Issue | Description | Date |
|---|---|---|
| C | REISSUED FOR APPROVAL | 29-10-18 |
| B | REISSUED FOR APPROVAL | 06-09-18 |
| A | ISSUED FOR APPROVAL | 17-03-17 |

Bar Scales

0 1 2 3 4 5m

1 : 50 @ A1 1 : 100 @ A3

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Client: Goodman

| | |
|---|---|
| Scales | 1 □□□ □ A1 |
| Grid | MGA |
| Height Datum | AHD |
| Drawn | ASD |
| Designed | ASD |
| Checked | MM |
| Approved | G□ |

Project
□□ WATERLOO ROAD□NORTH RYDE□NSW□211□
PROPOSED DEVELOPMENT

Title
STORMWATER DRAINAGE ONSITE DETENTION TANK 1 DETAILS

C□□□E□□□□□r□ □□d Pr□□□□M□□□□□r□
at&l
L□□□□□□1□□W□□□r S□□□
N□r□□S□d□□□NSW 2□□□
ABN □□1□□ □□2 □□□
T□□□ □2 □□□□1□□□
F□□□ □2 □□2□1□□□
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Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

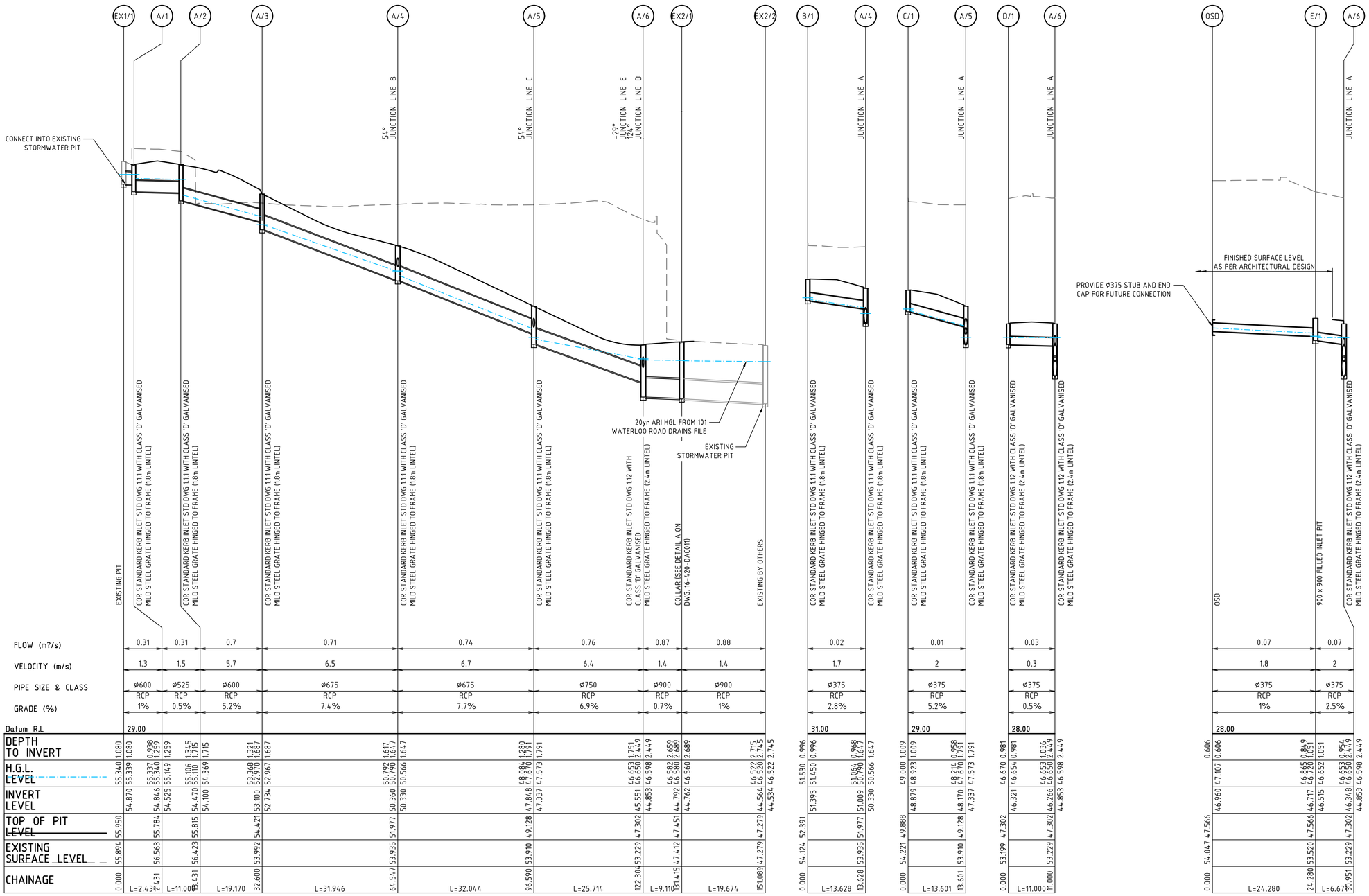
A1

| Drawing No. | Project No. | Issue |
|---|---|---|
| 1□-□2□-DAC□□□ | 1□-□2□ | C |

100mm on Original

Date Plotted: 29 Oct 2018 - 02:55PM File Name: F:\16-420 Waterloo Road\Drgs\Civil\Final\16-420-DAC043.dwg

C




| | EX1/1 | A/1 | A/2 | A/3 | A/4 | A/5 | A/6 | EX2/1 | EX2/2 | B/1 | A/4 | C/1 | A/5 | D/1 | A/6 | OSD | E/1 | A/6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | EXISTING PIT | COR STANDARD KERB INLET STD DWG 1:1 WITH CLASS 'D' GALVANISED MILD STEEL GRATE HINGED TO FRAME (1.8m LINTEL) | COR STANDARD KERB INLET STD DWG 1:1 WITH CLASS 'D' GALVANISED MILD STEEL GRATE HINGED TO FRAME (1.8m LINTEL) | COR STANDARD KERB INLET STD DWG 1:1 WITH CLASS 'D' GALVANISED MILD STEEL GRATE HINGED TO FRAME (1.8m LINTEL) | COR STANDARD KERB INLET STD DWG 1:1 WITH CLASS 'D' GALVANISED MILD STEEL GRATE HINGED TO FRAME (1.8m LINTEL) | COR STANDARD KERB INLET STD DWG 1:1 WITH CLASS 'D' GALVANISED MILD STEEL GRATE HINGED TO FRAME (1.8m LINTEL) | COR STANDARD KERB INLET STD DWG 1:2 WITH CLASS 'D' GALVANISED MILD STEEL GRATE HINGED TO FRAME (2.4m LINTEL) | COLLAR (SEE DETAIL A ON DWG 16-420-DAC011) | EXISTING BY OTHERS | COR STANDARD KERB INLET STD DWG 1:1 WITH CLASS 'D' GALVANISED MILD STEEL GRATE HINGED TO FRAME (1.8m LINTEL) | COR STANDARD KERB INLET STD DWG 1:1 WITH CLASS 'D' GALVANISED MILD STEEL GRATE HINGED TO FRAME (1.8m LINTEL) | COR STANDARD KERB INLET STD DWG 1:1 WITH CLASS 'D' GALVANISED MILD STEEL GRATE HINGED TO FRAME (1.8m LINTEL) | COR STANDARD KERB INLET STD DWG 1:1 WITH CLASS 'D' GALVANISED MILD STEEL GRATE HINGED TO FRAME (1.8m LINTEL) | COR STANDARD KERB INLET STD DWG 1:2 WITH CLASS 'D' GALVANISED MILD STEEL GRATE HINGED TO FRAME (2.4m LINTEL) | COR STANDARD KERB INLET STD DWG 1:2 WITH CLASS 'D' GALVANISED MILD STEEL GRATE HINGED TO FRAME (2.4m LINTEL) | OSD | 900 x 900 FILLED INLET PIT | COR STANDARD KERB INLET STD DWG 1:2 WITH CLASS 'D' GALVANISED MILD STEEL GRATE HINGED TO FRAME (2.4m LINTEL) |
| FLOW (m?/s) | | 0.31 | 0.31 | 0.7 | 0.71 | 0.74 | 0.76 | 0.87 | 0.88 | 0.02 | | 0.01 | | 0.03 | | 0.07 | | 0.07 |
| VELOCITY (m/s) | | 1.3 | 1.5 | 5.7 | 6.5 | 6.7 | 6.4 | 1.4 | 1.4 | 1.7 | | 2 | | 0.3 | | 1.8 | | 2 |
| PIPE SIZE & CLASS | | ø600 RCP | ø525 RCP | ø600 RCP | ø675 RCP | ø675 RCP | ø750 RCP | ø900 RCP | ø900 RCP | ø375 RCP | | ø375 RCP | | ø375 RCP | | ø375 RCP | | ø375 RCP |
| GRADE (%) | | 1% | 0.5% | 5.2% | 7.4% | 7.7% | 6.9% | 0.7% | 1% | 2.8% | | 5.2% | | 0.5% | | 1% | | 2.5% |
| Datum R.L | | 29.00 | | | | | | | | 31.00 | | 29.00 | | 28.00 | | 28.00 | | |
| DEPTH TO INVERT | 1.080 | 1.080 | 0.938 1.259 | 1.345 1.715 | 1.321 1.687 | 1.280 1.791 | 1.751 2.449 | 2.458 2.689 | 2.715 2.745 | 0.996 | | 1.009 | | 0.981 | | 0.606 | 0.849 1.051 | 0.954 2.449 |
| H.G.L. LEVEL | 55.340 | 55.339 | 55.337 55.340 | 55.106 55.100 | 53.366 52.970 | 48.080 47.670 | 46.653 46.650 | 46.580 46.580 | 46.522 46.520 | 51.530 51.450 | 50.790 | 49.000 48.923 | 48.214 47.670 | 46.670 46.654 | 46.653 46.650 | 47.107 | 46.865 46.720 | 46.653 46.650 |
| INVERT LEVEL | 54.870 | 54.846 | 54.525 55.149 | 54.470 55.100 | 54.100 54.369 | 53.100 52.967 | 52.734 | 50.360 50.790 | 50.330 50.566 | 47.848 47.573 | 47.337 47.573 | 51.395 51.009 | 51.009 50.790 | 48.879 48.170 | 47.337 47.573 | 46.321 46.266 | 46.960 | 46.717 46.515 | 46.652 | 46.348 46.598 |
| TOP OF PIT LEVEL | 55.950 | 55.950 | 55.784 | 55.815 | 54.421 | 49.128 | 47.302 | 47.451 | 44.792 44.560 | 51.977 | 50.566 | 51.977 | 49.128 | 47.302 | 46.266 | 47.302 | 47.566 | 46.652 | 46.598 |
| EXISTING SURFACE LEVEL | 55.894 | 56.563 | 56.423 | 53.992 | 53.910 | 53.229 | 47.412 | 47.279 | 47.279 | 54.124 | 53.935 | 54.221 | 53.910 | 53.199 | 53.229 | 47.302 | 53.520 | 47.302 | 53.229 | 47.302 |
| CHAINAGE | 0.000 | L=2.431 | 2.431 | L=11.000 | 13.431 L=19.170 | 32.600 L=31.946 | 64.547 L=32.044 | 96.590 L=25.714 | 122.304 L=9.115 | 131.419 L=19.674 | 151.089 | 0.000 L=13.628 | 13.628 | 0.000 L=13.601 | 13.601 | 0.000 L=11.000 | 11.000 | 0.000 L=24.280 | 24.280 L=6.671 | 30.951 |

LINE A | LINE B | LINE C | LINE D | LINE E

| Issue | Description | Date |
|---|---|---|
| C | REISSUED FOR APPROVAL | 29-10-18 |
| B | REISSUED FOR APPROVAL - REVISED STW LAYOUT | 09-10-18 |
| A | REISSUED FOR APPROVAL | 06-09-18 |

100mm on Original

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

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Client: Goodman

| | |
|---|---|
| Scales | 1□□□ H □ A1<br>1□□V □ A1 |
| Grid | MGA |
| Height Datum | AHD |
| Drawn | ASD |
| Designed | ASD |
| Checked | MM |
| Approved | G□ |

Project
□□ WATERLOO ROAD□NORTH RYDE□NSW□211□
PROPOSED DEVELOPMENT

Title
STORMWATER LONGITUDINAL SECTION

C□□E□□□□r□ □□d Pr□□□M□□□□r□
at&l
L□□□□□1□□W□□r S□□□
N□r□S□d□□NSW 2□□
ABN □□ 1□□ □□2 □□□
T□□ □2 □□□1 1□□
F□□ □2 □□2□1□□□
□□□ □□□□□□□□
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Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

| Drawing No. | Project No. | Issue |
|---|---|---|
| 1□-□2□-DAC□□□ | 1□-□2□ | C |

Date Plotted: 29 Oct 2018 - 05:01PM File Name: F:\16-420 Waterloo Road\Drgs\Civil\Final\16-420-DAC045.dwg

EXISTING

DRIVEWAY

KHARTOUM
CORPORATE CENTRE
WORKS COMPLETE

EXISTING SEWER MANHOLE LID TO BE ADJUSTED TO SUIT PROPOSED FOOTPATH LEVELS

PROPOSED SEWER TO SUIT NEW ROAD ALIGNMENT

EXISTING STORMWATER PIPES AND PITS TO BE REMOVED AND DISPOSED OFF SITE

EXISTING SEWER TO BE REMOVED AND DISPOSED OFF SITE

PROPOSED ROAD 1

EXISTING ROAD 1

EXISTING STORMWATER TO REMAIN

PROPOSED DEVELOPMENT SITE

PROPOSED ROAD BY OTHERS

PROPOSED LOT
ON-LOT WORKS AS PART OF SEPARATE APPROVAL

EXISTING STORMWATER PIPES AND PITS TO BE REMOVED AND DISPOSED OFF SITE

EXISTING STORMWATER PIPES AND PITS TO BE REMOVED AND DISPOSED OFF SITE

END OF EXISTING STORMWATER PIPES TO BE END CAPPED

TOP KERB

AWNING

BOH

TANK

RIDGE

## SERVICES LEGEND

| | PROPOSED SERVICES | EXISTING SERVICES |
|---|---|---|
| ELECTRICITY | E E | e e e |
| TELSTRA CONDUITS | T T | t t t |
| SEWER SERVICE | S S | s s s |
| WATER SERVICE | W W | w w w |
| GAS SERVICE | G G | g g g |
| DISUSED SERVICE | X X X | x x x |
| STORMWATER | sw sw | sw sw |
| SEWER MANHOLE | | |
| LIGHT POLE | | |

NOTE:
1. LIGHT POLE LOCATIONS ARE INDICATIVE ONLY. ELECTRICAL ENGINEER TO CONFIRM LOCATIONS AT DETAIL DESIGN.
2. SERVICE PIT LOCATIONS TO BE CONFIRMED AT DETAIL DESIGN.

FOR CONTINUATION REFER TO DRAWING DAC071

| Issue | Description | Date |
|---|---|---|
| D | REISSUED FOR APPROVAL | 29-10-18 |
| C | REISSUED FOR APPROVAL - REVISED STW LAYOUT | 09-10-18 |
| B | REISSUED FOR APPROVAL | 06-09-18 |
| A | ISSUED FOR APPROVAL | 17-03-17 |

Bar Scales

0 5 10 15 20 25m

1:250 @ A1 1:500 @ A3

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Client: Goodman

Scales: 1:2□□ □ A1

Grid: MGA

Height Datum: AHD

| | |
|---|---|
| Drawn | ASD |
| Designed | ASD |
| Checked | MM |
| Approved | G□ |

Project
□□ WATERLOO ROAD□NORTH RYDE□NSW□211□
PROPOSED DEVELOPMENT

Title
SERVICES AND UTILITIES COORDINATION PLAN SHEET 1

C□□E□□□□r□ □□d Pr□□□M□□□□r□
at&l
L□□□□□1□□W□□r S□□□
N□r□S□d□□□NSW 2□□□
ABN □□1□□ □2 □□□
T□□ (2 □□□□ 1□□□
F□□ (2 □□2□1□□□
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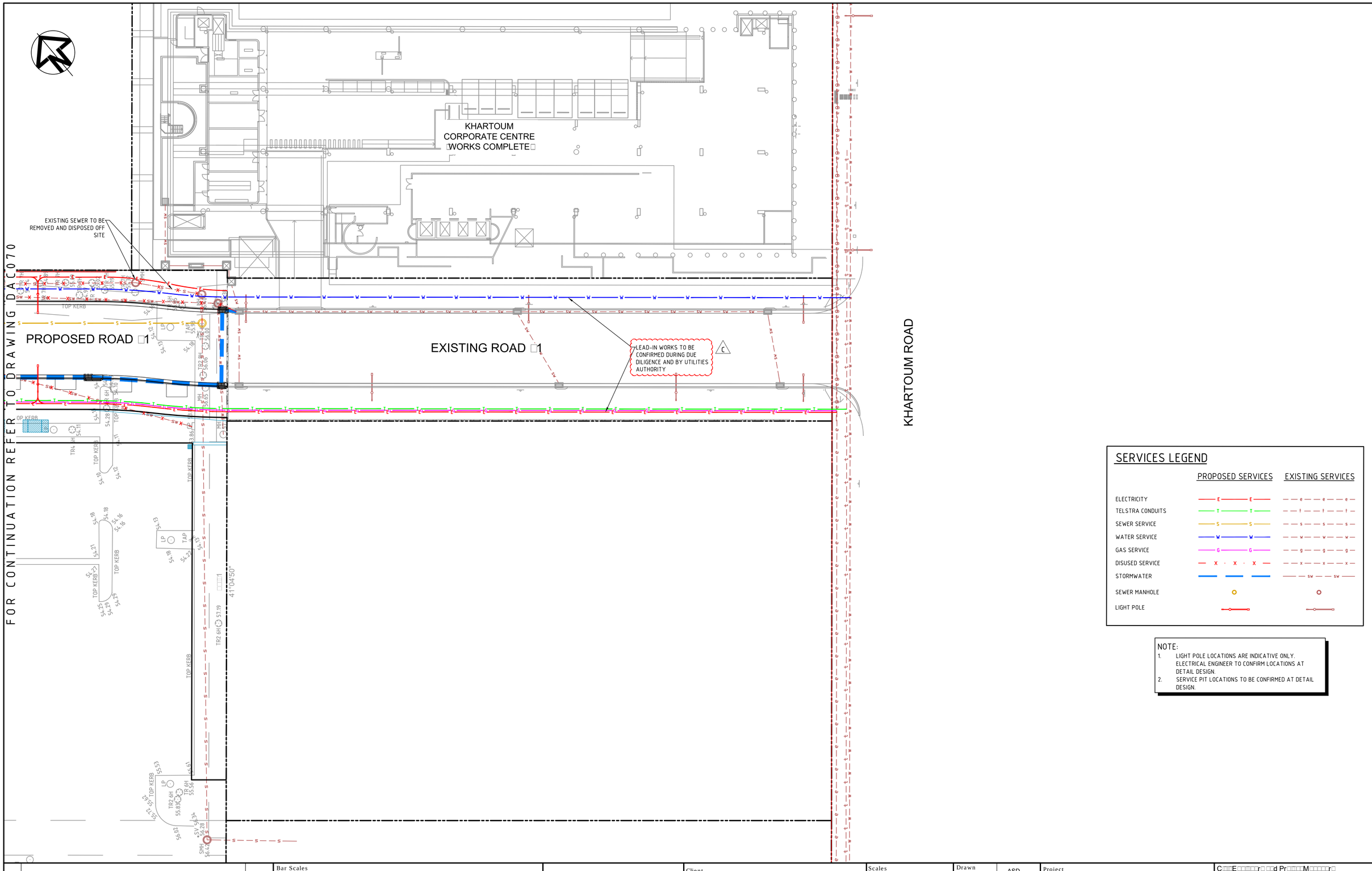
Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

| Drawing No. | Project No. | Issue |
|---|---|---|
| 1□-□2□-DAC□□ | 1□-□2□ | D |

100mm on Original

Date Plotted: 29 Oct 2018 - 02:56PM File Name: F:\16-420 Waterloo Road\Drgs\Civil\Final\16-420-DAC070.dwg




## SERVICES LEGEND

| | PROPOSED SERVICES | EXISTING SERVICES |
|---|---|---|
| ELECTRICITY | E E | e e e |
| TELSTRA CONDUITS | T T | t t t |
| SEWER SERVICE | S S | s s s |
| WATER SERVICE | W W | w w w |
| GAS SERVICE | G G | g g g |
| DISUSED SERVICE | X X X | x x x |
| STORMWATER | sw sw | sw sw |
| SEWER MANHOLE | | |
| LIGHT POLE | | |

NOTE:
1. LIGHT POLE LOCATIONS ARE INDICATIVE ONLY. ELECTRICAL ENGINEER TO CONFIRM LOCATIONS AT DETAIL DESIGN.
2. SERVICE PIT LOCATIONS TO BE CONFIRMED AT DETAIL DESIGN.

| Issue | Description | Date |
|---|---|---|
| C | REISSUED FOR APPROVAL | 29-10-18 |
| B | REISSUED FOR APPROVAL | 06-09-18 |
| A | ISSUED FOR APPROVAL | 17-03-17 |

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

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Client: Goodman

Scales: 1 □2□□ □ A1

Grid: MGA

Height Datum: AHD

Drawn: ASD

Designed: ASD

Checked: MM

Approved: G□

Project: □□ WATERLOO ROAD□NORTH RYDE□NSW□211□ PROPOSED DEVELOPMENT

Title: SERVICES AND UTILITIES COORDINATION PLAN SHEET 2

C□□□E□□□□□r□ □□d Pr□□□□M□□□□□r□
at&l
L□□□□□□1□□W□□□r S□□□
N□□□ S□d□□□NSW 2□□□
ABN □□ 1□□ □□2 □□□
T□□□ □2 □□□□ 1□□□
F□□□ □2 □□2□ 1□□□
□□□ □□□□□□□□□

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

| Drawing No. | Project No. | Issue |
|---|---|---|
| 1□-□2□-DAC□□1 | 1□-□2□ | D |

100mm on Original

Date Plotted: 29 Oct 2018 - 02:56PM File Name: F:\16-420 Waterloo Road\Drgs\Civil\Final\16-420-DAC071.dwg

EXISTING

DRIVEWAY

PROPOSED ROAD □1

EXISTING ROAD □1

KHARTOUM
CORPORATE CENTRE
□WORKS COMPLETE□

PROPOSED □□Z
DEVELOPMENT
SITE

PROPOSED ROAD □ BY OTHERS□

PROPOSED LOT
ON-LOT WORKS AS PART OF
SEPARATE APPROVAL

PROVIDE MESH AND GRAVEL
INLET FILTERS TO ALL STORMWATER
INLET PITS ON EXISTING ROAD 01

## LEGEND

- SEDIMENT FENCE (SD 6-8)
- BARRIER FENCE
- MESH AND GRAVEL INLET FILTER (SD 6-11)
- GEOTEXTILE INLET (SD 6-12)
- STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)
- ACCESS GATES

| Issue | Description | Date |
|---|---|---|
| D | REISSUED FOR APPROVAL | 29-10-18 |
| C | REISSUED FOR APPROVAL – REVISED STW LAYOUT | 09-10-18 |
| B | REISSUED FOR APPROVAL | 06-09-18 |
| A | ISSUED FOR APPROVAL | 17-03-17 |

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

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Client: Goodman

| | |
|---|---|
| Scales | 1 □2□□ □ A1 |
| Grid | MGA |
| Height Datum | AHD |
| Drawn | ASD |
| Designed | ASD |
| Checked | MM |
| Approved | G□ |

Project
□□ WATERLOO ROAD□NORTH
RYDE□NSW□211□
PROPOSED DEVELOPMENT

Title
EROSION AND
SEDIMENT CONTROL
PLAN

C□□E□□□□r□ □□d Pr□□□M□□□□r□
at&l
L□□□□□1□□ W□□r S□□□
N□r□□ S□d□□NSW 2□□□
ABN □□1□□ □□2 □□□
T□□ □2 □□□1 1□□□
F□□ □2 □□2□ 1□□□
□□□ □□□□□□□□

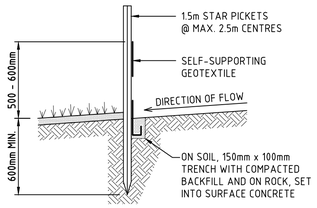
Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

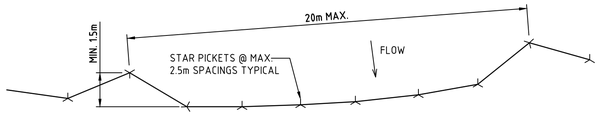
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|---|---|---|
| 1□-□2□-DAC□□ | 1□-□2□ | C |

100mm on Original

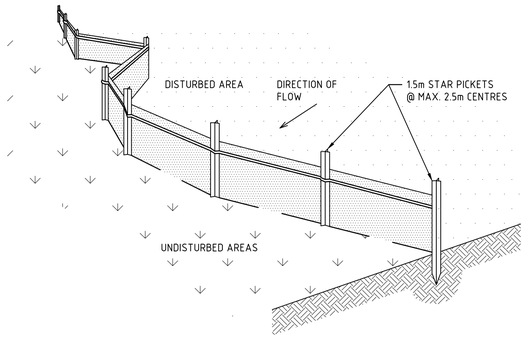
Date Plotted: 29 Oct 2018 – 02:56PM File Name: F:\16-420 Waterloo Road\Drgs\Civil\Final\16-420-DAC080.dwg




SECTION DETAIL




PLAN




## SEDIMENT FENCE

SCALE N.T.S.

### SEDIMENT FENCE CONSTRUCTION NOTES:

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.

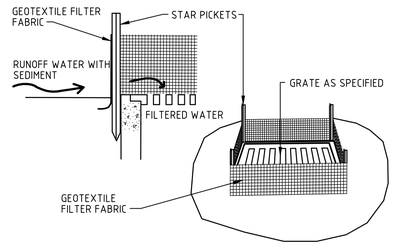
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.

3. DRIVE 1.5m LONG STAR PICKETS INTO GROUND @ 2.5m INTERVALS (MAX.) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.

4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.

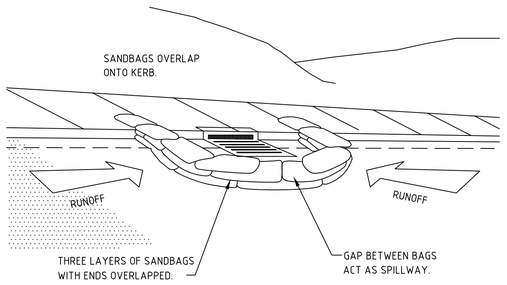
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.

6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.



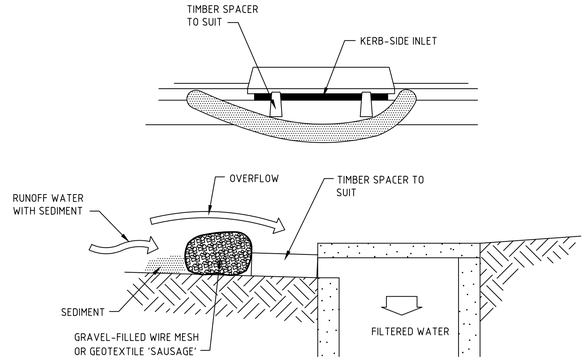

## GEOTEXTILE FILTER PIT SURROUND

NTS



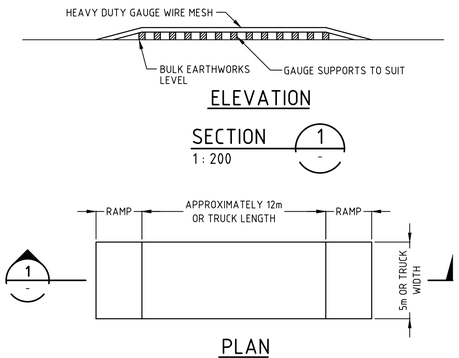

## SANDBAG SEDIMENT TRAP FOR KERB INLET AT LOWPOINT

NTS




## MESH AND GRAVEL INLET FILTER

NTS




## PLAN

## TEMPORARY CONSTRUCTION EXIT

SCALE 1:200

THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY. THIS MAY REQUIRE REPAIR AND OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY.

| Issue | Description | Date |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| C | REISSUED FOR APPROVAL | 29-10-18 |
| B | REISSUED FOR APPROVAL | 06-09-18 |
| A | ISSUED FOR APPROVAL | 17-03-17 |

Bar Scales

100mm on Original

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Client: Goodman

| | | | |
|---|---|---|---|
| Scales | NTS | Drawn | ASD |
| | | Designed | ASD |
| Grid | MGA | Checked | MM |
| Height Datum | AHD | Approved | G□ |

Project
□□ WATERLOO ROAD□NORTH
RYDE□NSW□211□
PROPOSED DEVELOPMENT

Title
EROSION AND
SEDIMENT CONTROL
DETAILS

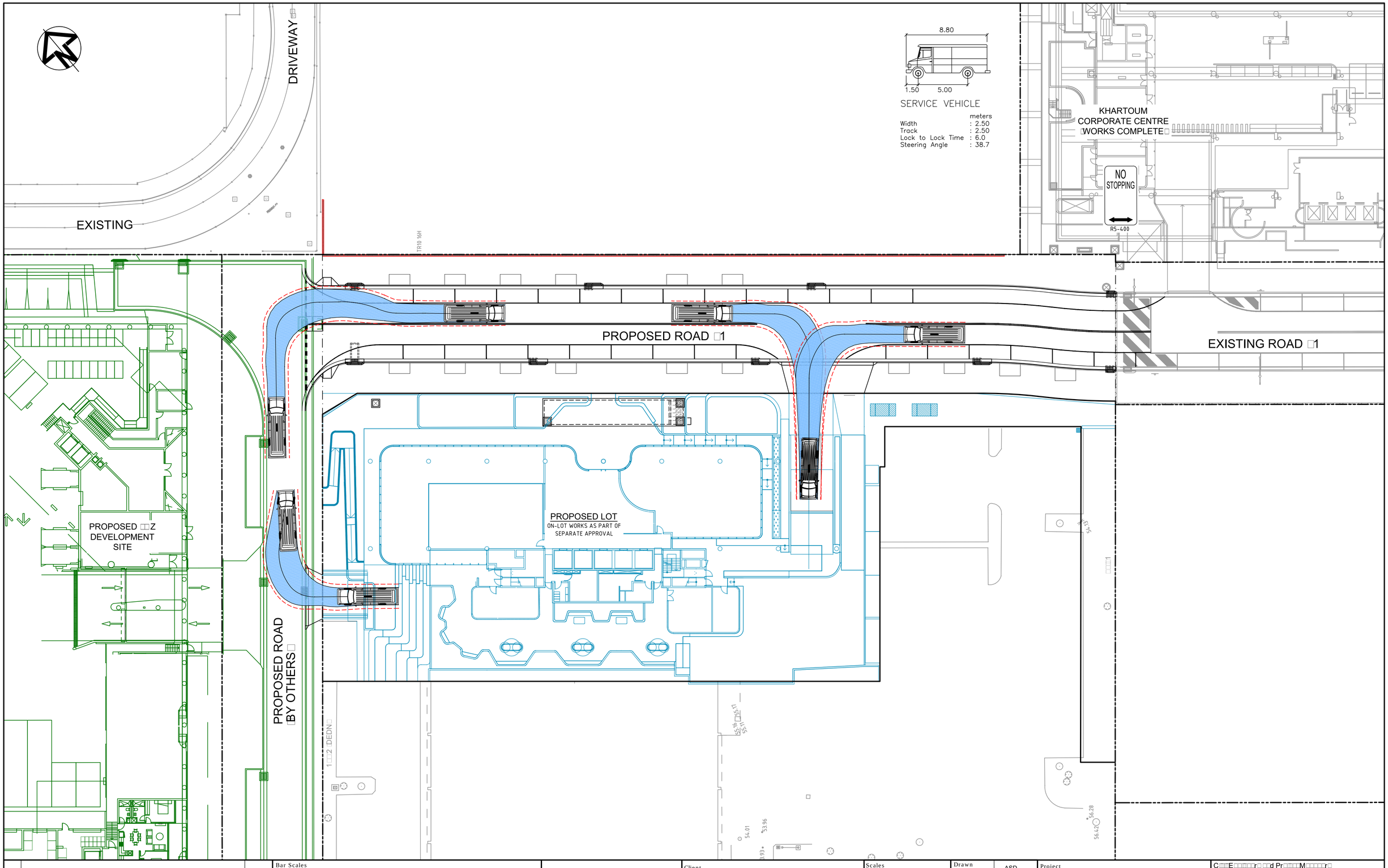
C□□□E□□□□□r□ □□d Pr□□□□M□□□□□r□
at&l
L□□□□□□1□□W□□□r S□□□
N□r□□S□d□□□NSW 2□□□
ABN □□1□□ □□2 □□□
T□□□ □2 □□□□ 1□□□
F□□□ □2 □□2□1□□□
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Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

| Drawing No. | Project No. | Issue |
|---|---|---|
| 1□-□2□-DAC□□1 | 1□-□2□ | D |

F:\16-420 Waterloo Road\Drgs\Civil\Final\16-420-DAC081.dwg




| Issue | Description | Date |
|---|---|---|
| C | REISSUED FOR APPROVAL | 29-10-18 |
| B | REISSUED FOR APPROVAL | 06-09-18 |
| A | ISSUED FOR APPROVAL | 17-03-17 |

100mm on Original

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

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Client

Goodman

| Scales | 1 □2□□ □ A1 | Drawn | ASD |
|---|---|---|---|
| | | Designed | ASD |
| Grid | MGA | Checked | MM |
| Height Datum | AHD | Approved | G□ |

Project

□□ WATERLOO ROAD□NORTH
RYDE□NSW□211□
PROPOSED DEVELOPMENT

Title

TURNING PATH
PLAN

C□□□E□□□□□r□ □□d Pr□□□□M□□□□□r□

at&l

L□□□□□□1□□W□□□r S□□□
N□r□□S□d□□□NSW 2□□□
ABN □□ 1□□ □□2 □□□
T□□□ □2 □□□□ 1□□□
F□□□ □2 □□2□ 1□□□
□ □ □ □□□□□□□□□
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Status

FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

| Drawing No. | Project No. | Issue |
|---|---|---|
| 1□-□2□-DAC□□□ | 1□-□2□ | C |

Date Plotted: 29 Oct 2018 - 02:56PM File Name: F:\16-420 Waterloo Road\Drgs\Civil\Final\16-420-DAC090.dwg

LEGEND

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- EXISTING BOUNDARY TO BE REMOVED
- PROPOSED PUBLIC ROADS
- PEDESTRIAN LINK 6.0m WIDE

EXISTING

DRIVEWAY

PROPOSED ROAD □1

EXISTING ROAD □1

KHARTOUM CORPORATE CENTRE □WORKS COMPLETE□

KHARTOUM ROAD

PROPOSED LOT
ON-LOT WORKS AS PART OF SEPARATE APPROVAL

PROPOSED □□Z DEVELOPMENT SITE

PROPOSED ROAD — □BY OTHERS□

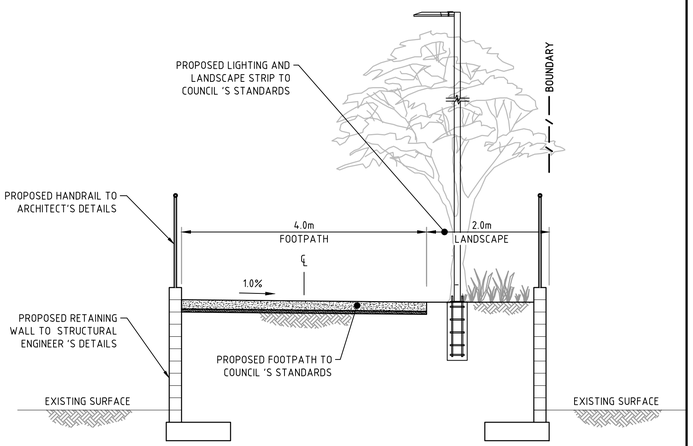
EXISTING SUB STATION TO BE RELOCATED SUBJECT TO FUTURE DA

NOTE :
LEVELS SUBJECT TO COORDINATION WITH FUTURE DA FOR 85-97 WATERLOO ROAD

F 55.80
F 54.00
F 56.40
F 53.00
5.74%
1.14%
0.94%

Awning Over

WATERLOO ROAD




SECTION A
1 : 50

INDICATIVE PEDESTRIAN LINK CROSS SECTION

NOTE : PROPOSED LEVELS SUBJECT TO DETAILED DESIGN

| Issue | Description | Date |
|---|---|---|
| B | REISSUED FOR APPROVAL | 26-10-18 |
| A | ISSUED FOR APPROVAL | 19-08-18 |

Bar Scales

0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3

0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

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Client: Goodman

| | |
|---|---|
| Scales | AS SHOWN |
| Grid | MGA |
| Height Datum | AHD |
| Drawn | ASD |
| Designed | ASD |
| Checked | MM |
| Approved | G□ |

DRAFT

Project
□□ WATERLOO ROAD□NORTH RYDE□NSW□211□
PROPOSED DEVELOPMENT

Title
PEDESTRIAN LINK SKETCH PLAN

C□□E□□□□□r□ □□d Pr□□□□M□□□□□r□
at&l
L□□□□□□1□□ W□□□r S□□□
N□r□ S□d□□□NSW 2□□□
ABN □□1□□ □□2 □□□
T□□□ □2 □□□□ 1□□□
F□□□ □2 □□2□ 1□□□
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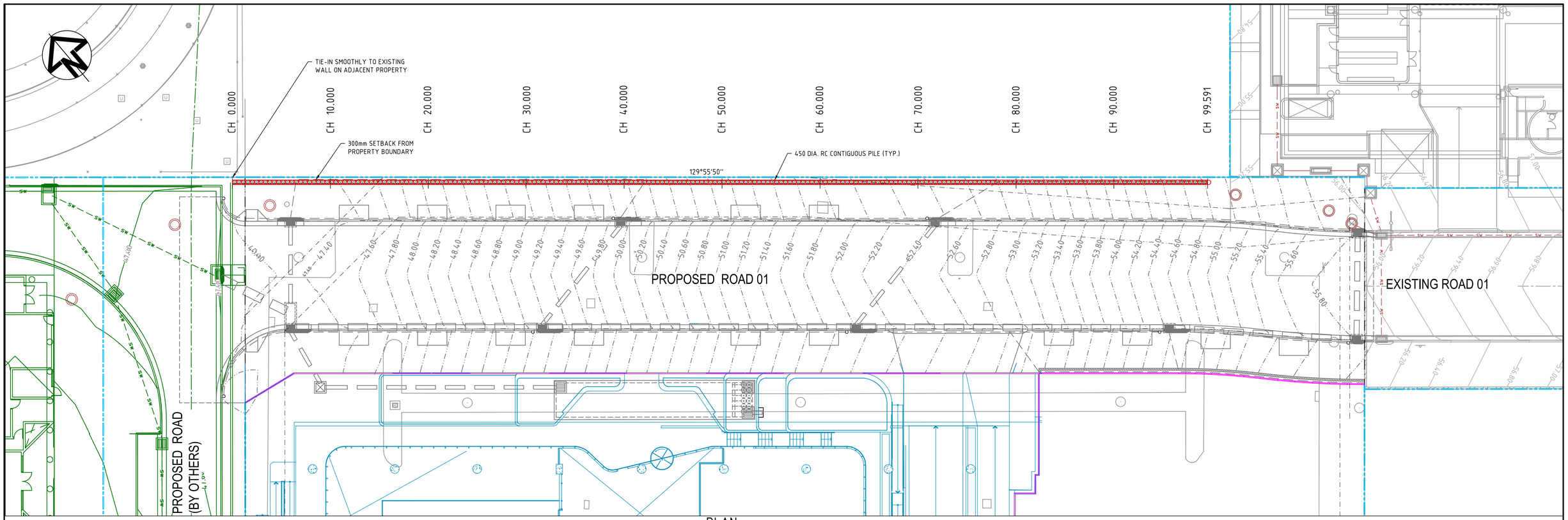
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A1

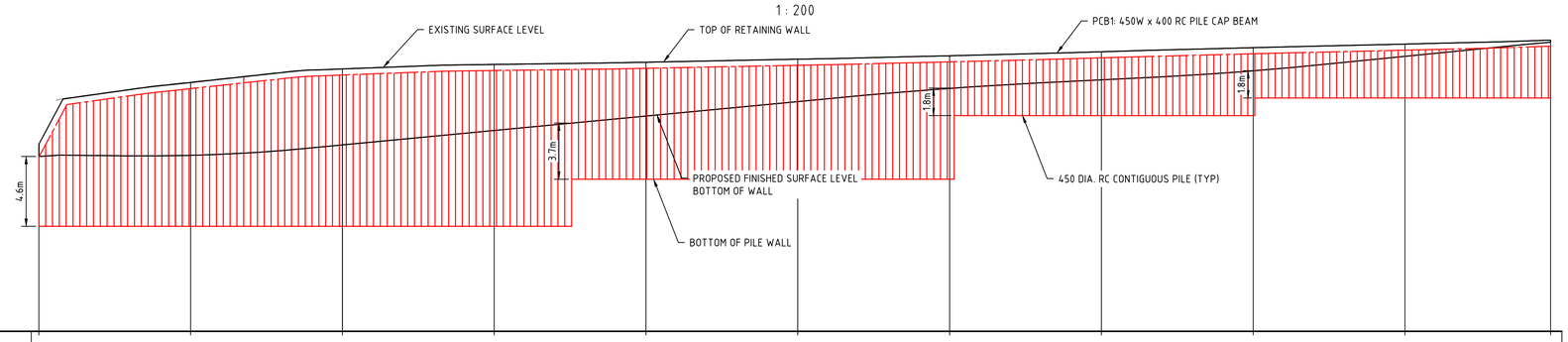
| Drawing No. | Project No. | Issue |
|---|---|---|
| 1□-□2□-DAC1□□ | 1□-□2□ | C |

100mm on Original

Date Plotted: 29 Oct 2018 - 02:57PM File Name: F:\16-420 Waterloo Road\Drgs\Civil\Final\16-420-DAC100.dwg




PLAN
1 : 200



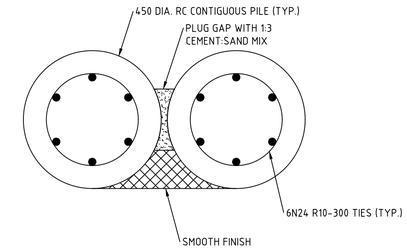

Datum RL36

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| CHAINAGE | 0.000 | 10.000 | 20.000 | 30.000 | 40.000 | 50.000 | 60.000 | 70.000 | 80.000 | 90.000 | 99.591 |
| EXISTING SURFACE LEVEL | | 52.408 | 53.283 | 53.580 | 53.723 | 53.920 | 54.142 | 54.406 | 54.676 | 54.907 | 55.173 |
| BOTTOM OF RETAINING WALL | 47.513 | 47.588 | 48.274 | 49.224 | 50.174 | 51.124 | 51.989 | 52.557 | 53.150 | 54.110 | 55.039 |
| TOP OF RETAINING WALL | | 52.383 | 53.273 | 53.572 | 53.718 | 53.915 | 54.143 | 54.407 | 54.675 | 54.909 | 55.172 |
| HEIGHT OF RETAINING WALL | | 4.795 | 4.999 | 4.348 | 3.544 | 2.791 | 2.154 | 1.850 | 1.526 | 0.798 | 0.134 |

RETAINING WALL RW01 PROFILE
SCALE 1:200 HORI.
1:200 VERT.

LEGEND

RW — CONTIGUOUS PILE WALL




TYPICAL CONTIGUOUS PILE RETAINING WALL DETAIL

DETAIL 1 / 1 : 10

| Issue | Description | Date |
|---|---|---|
| P2 | SMOOTH FINISH OF PILE WALL AND SUBSOIL DELETED | 07-03-19 |
| P1 | ISSUED FOR INFORMATION | 13-02-19 |

Bar Scales

0 100 200 400 600 800 1000mm
1 : 10 @ A1 1 : 20 @ A3

0 5 10 15 20m
1 : 200 @ A1 1 : 400 @ A3

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Client: GROWTHBUILT — BUILDING ON GROWTH

Scales: AS SHOWN
Grid: MGA
Height Datum: AHD

Drawn: ASD
Designed: ASD
Checked: MM
Approved: G□

Project: □□ WATERLOO ROAD□NORTH RYDE□NSW□211□ STAGE 1

Title: RETAINING WALL CONTIGUOUS PILE OPTION

C□□□E□□□□r□ □□d Pr□□□□M□□□□□r□

at&l

L□□□□□□1□□W□□□r S□□□□
N□r□□S□d□□□NSW 2□□□
ABN □□ 1□□ □□2 □□□
T□□□ □2 □□□□ 1□□□
F□□□ □2 □□2□ 1□□□
□ □ □ □□□□□□□□□
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Status: FOR COMMENT
NOT TO BE USED FOR CONSTRUCTION

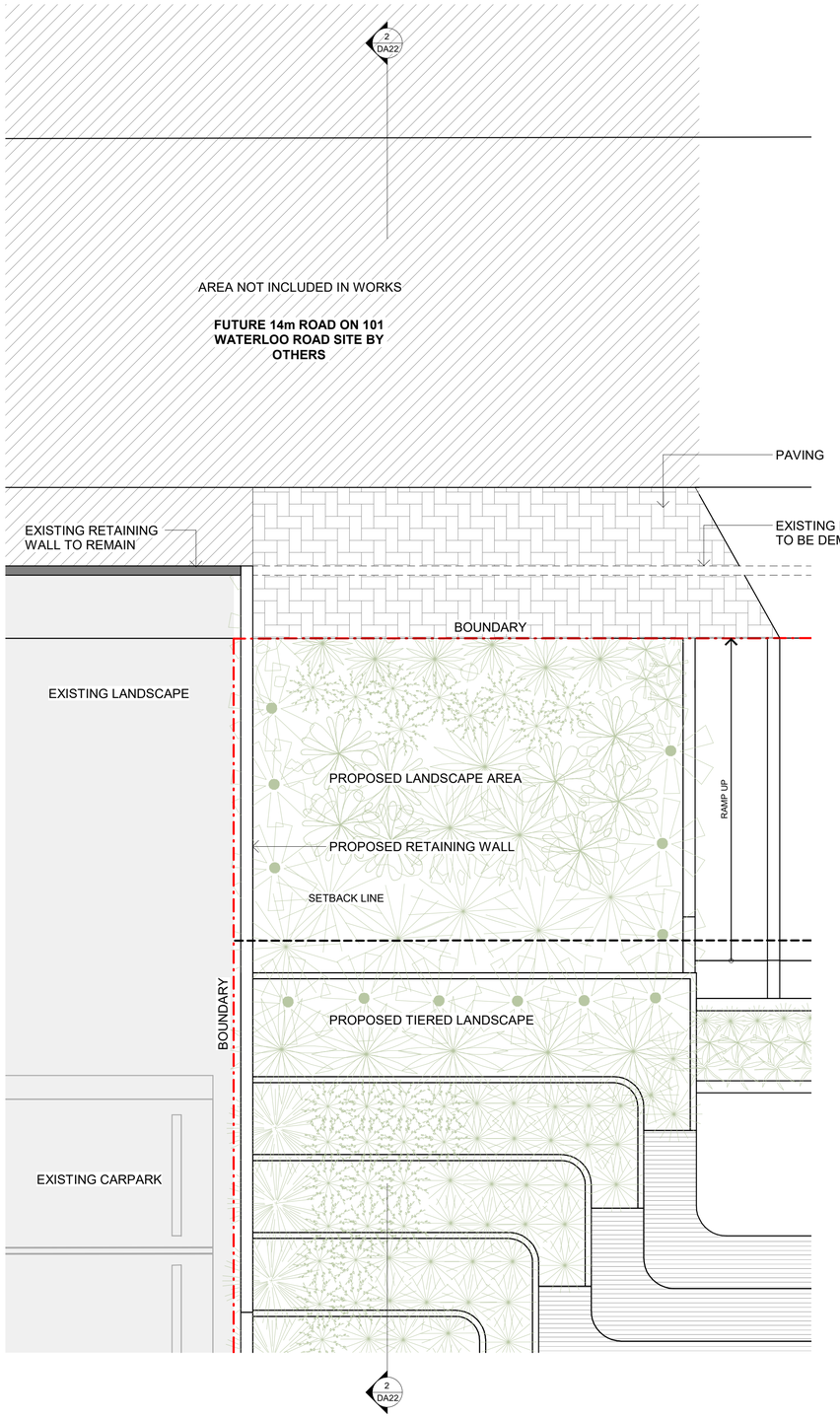
A1

Project - Drawing No.: ATL-CV-1□-□2□-SKC1□

Issue: P2

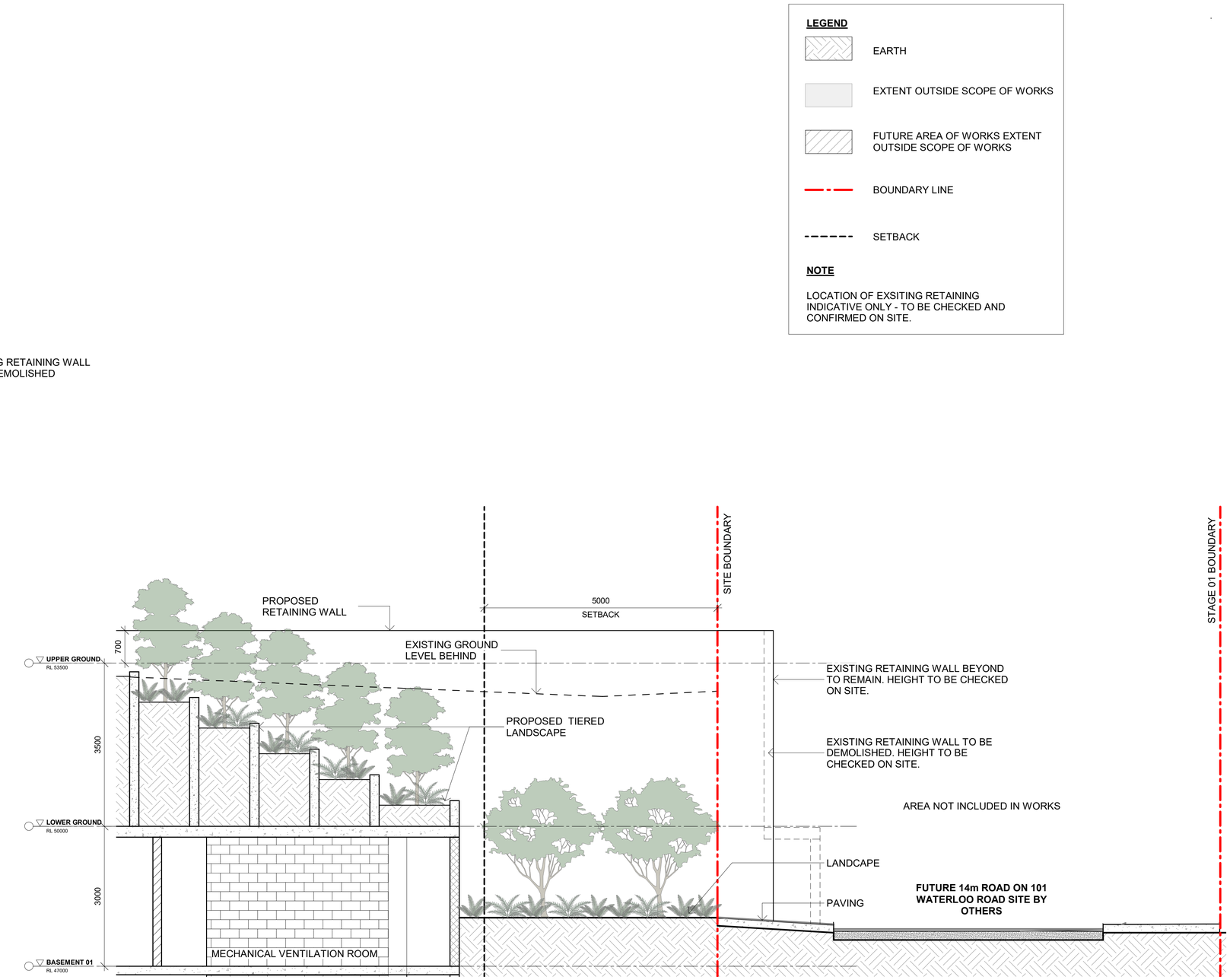
100mm on Original

Date Plotted: 7 Mar 2019 - 02:49PM File Name: F:\16-420 Waterloo Road\Drgs\Civil\Sketches\SKC013 RW Option 2.dwg




1 **SOUTH-WEST RETAINING WALL - PLAN**

SCALE 1 : 50




2 **SOUTH-WEST RETAINING WALL - SECTION**

SCALE 1 : 50

**LEGEND**

- EARTH
- EXTENT OUTSIDE SCOPE OF WORKS
- FUTURE AREA OF WORKS EXTENT OUTSIDE SCOPE OF WORKS
- BOUNDARY LINE
- SETBACK

**NOTE**

LOCATION OF EXSITING RETAINING INDICATIVE ONLY - TO BE CHECKED AND CONFIRMED ON SITE.

WMK Architecture
L2 364 Kent Street
Sydney NSW 2000
Telephone 02 9299 0401
Facsimile 02 9299 0402
wmkarchitecture.com
ABN 25 082 956 929

DEVELOPMENT APPLICATION
ONLY
NOT FOR CONSTRUCTION

0 0.5 1 1.5 2m
1:50

**NOTES**

**ALL AREAS QUOTED ARE APPROXIMATE ONLY. FOR ACCURATE AREA MEASUREMENTS, A LICENSED SURVEYOR MUST BE ENGAGED TO REVIEW DIMENSIONS.**

**REFER TO THE COVER SHEET AR-0000 FOR COMPLIANCE NOTES**

| Issue | Description | Date |
|---|---|---|
| A | ISSUE FOR DEVELOPMENT APPLICATION | 06.03.2019 |
| B | ISSUE FOR DEVELOPMENT APPLICATION | 07.03.2019 |

**Client**

Goodman

GROWTHBUILT

**Project**
MACQUARIE PARK
COMMERCIAL OFFICE
97 WATERLOO ROAD,
MACQUARIE PARK, NSW, 2113

**Title**
SOUTH-WEST RETAINING WALL DETAILS

Dimensioned Drawings to take precedence over scaling. Contractor to verify all dimensions on site before construction. All inconsistencies to be reported to the Architect immediately. This drawing and its contents remain the copyright of WMK Architecture Pty Ltd ©

| | |
|---|---|
| **Drawing No.** DA22 | **Issue** B |
| **Scale** 1 : 50@A1 | **Drawing Size** A1 |
| **Project No.** 18255 | **Drawn By** BV |
| **CAD Reference** | |

5/7/2019 2:58:26 PM

# 97 WATERLOO ROAD

SEPTEMBER 2018 - ISSUE B

LANDSCAPE DEVELOPMENT APPLICATION

ARCADIA

LANDSCAPE ARCHITECTURE

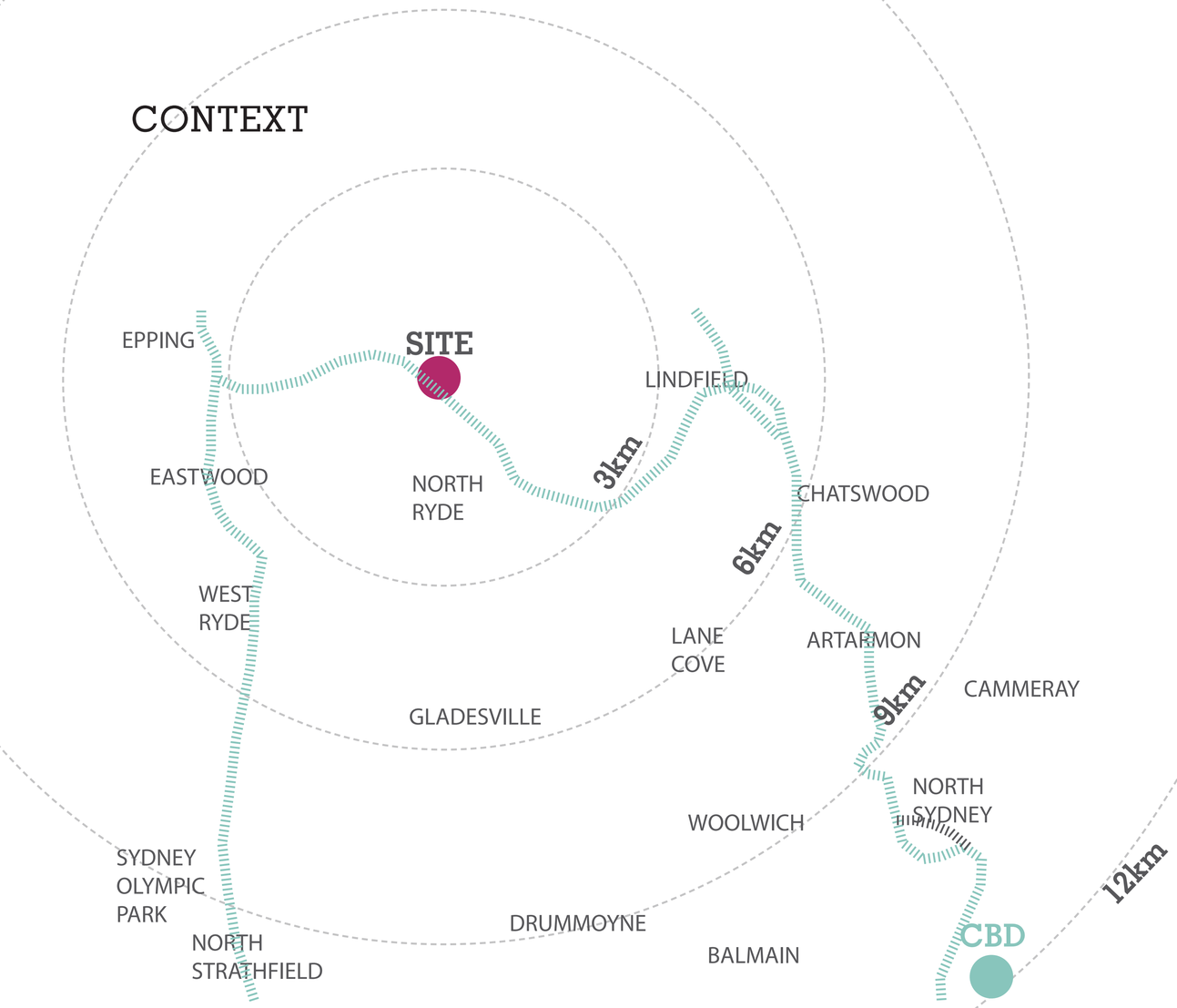
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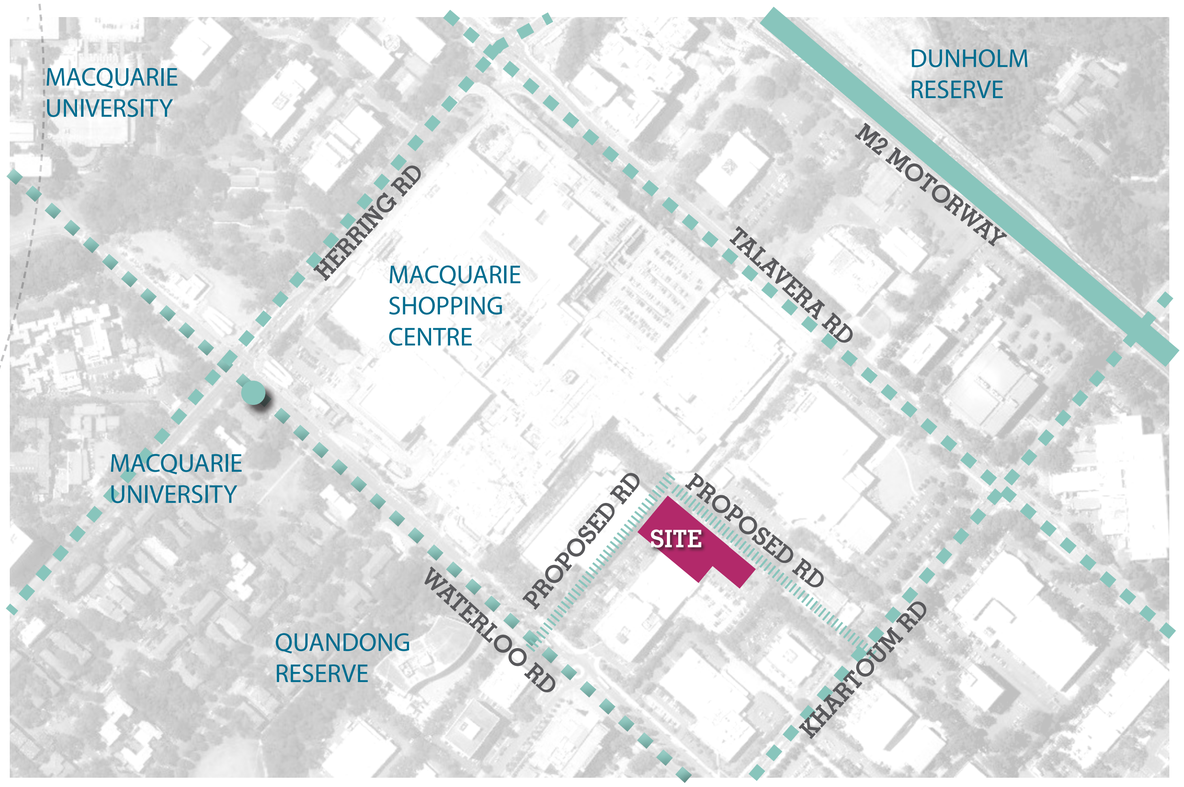

CONTEXT_3
EXISTING OPEN SPACE_4
VISION STATEMENT_5
PRINCIPLES_6
CHARACTER_7
CONCEPT PLAN_8
PUBLIC REALM_9
NETWORKS_10
SECTIONS_11
VEGETATION STRATEGY_12
APPENDIX_13




ARCADIA
LANDSCAPE ARCHITECTURE

# CONTEXT




## REGIONAL CONTEXT

The suburb of Macquarie Park is located in northern Sydney, 12km north west of the Sydney Central Business District. Located in the City of Ryde local government area, this site is surrounded by commercial and retail buildings, with the Macquarie Centre positioned adjacent.

The Site is edged by a number of distinct urban precincts. A campus style precinct of free standing commercial office buildings is located to the east while a large retail development - the Macquarie Centre - is located immediately west. Residential uses and the Macquarie University is located nearby.

ARCADIA
LANDSCAPE ARCHITECTURE

97 WATERLOO ROAD
DEVELOPMENT APPLICATION

| | |
|---|---|
| PREPARED BY | Arcadia Landscape Architecture |
| CLIENT | GOODMAN |
| ARCHITECT | Rice Daubney |
| DATE | SEP 2018 |
| SCALE | |
| ISSUE | B |

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# EXISTING OPEN SPACE

The Site is surrounded by large areas of open green space and national parks. Lane Cove National Park and the Lane Cove Valley Walk can be accessed from The Site.

Shrimpton Creek is aligned west of the site under the Macquarie Centre. Opposite the Maquarie Centre, Shrimpton Creek is likely to be redeveloped by City of Ryde as a Core Riparian Corridor, providing 20m of natural vegetation along both sides of the creek. Nearby the Site is within a 5min walk to Elouera Reserve [1], Quandong Reserve [2] and Milga Park [3].





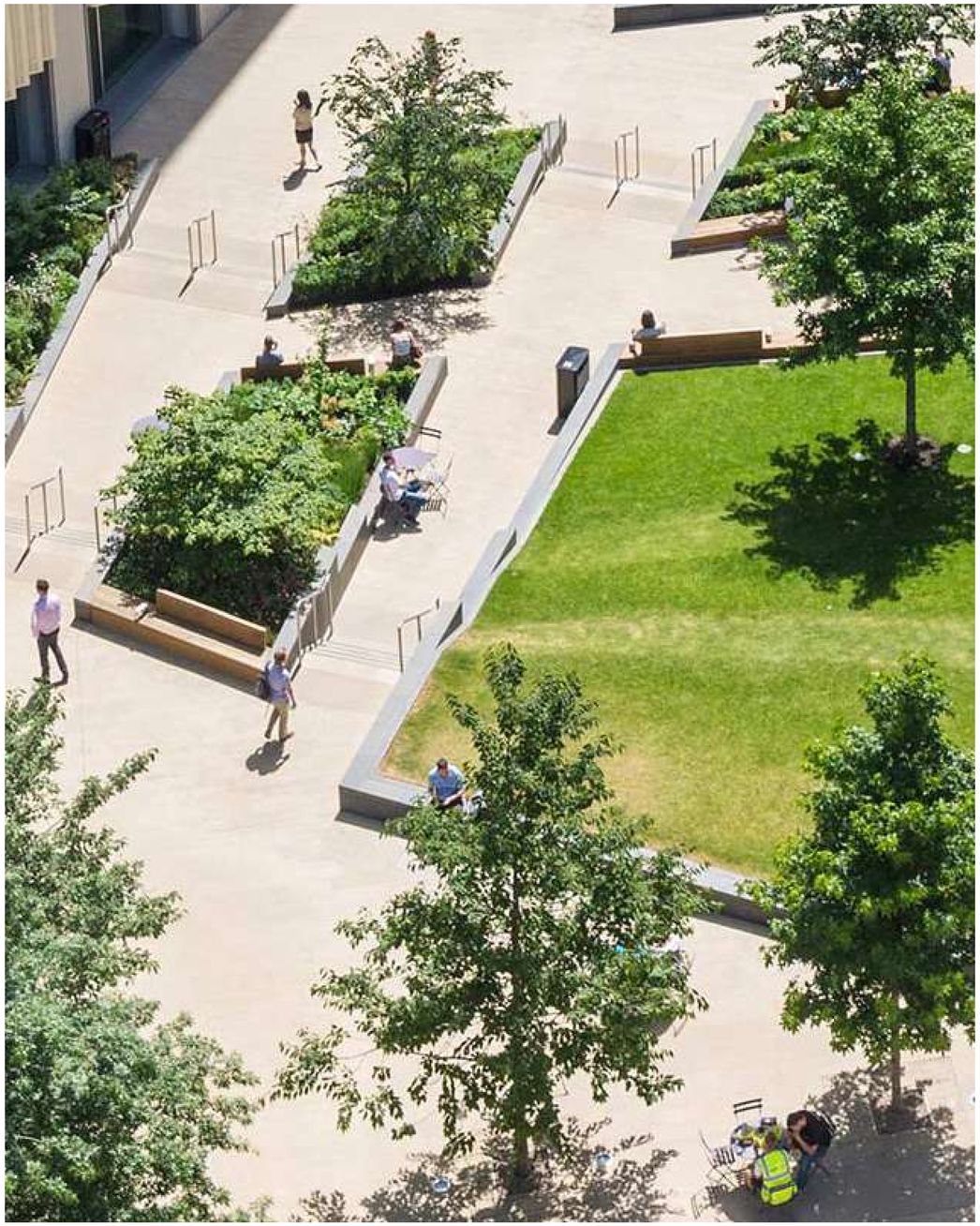

ARCADIA
LANDSCAPE ARCHITECTURE

97 WATERLOO ROAD
DEVELOPMENT APPLICATION

| | | | |
|---|---|---|---|
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# VISION

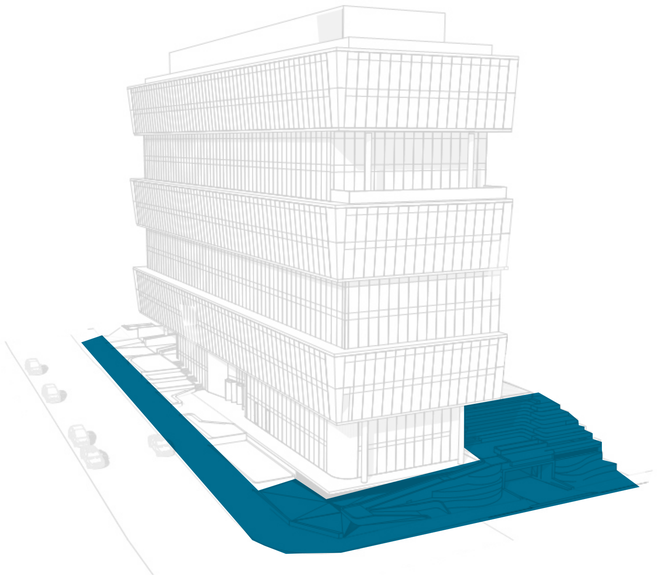


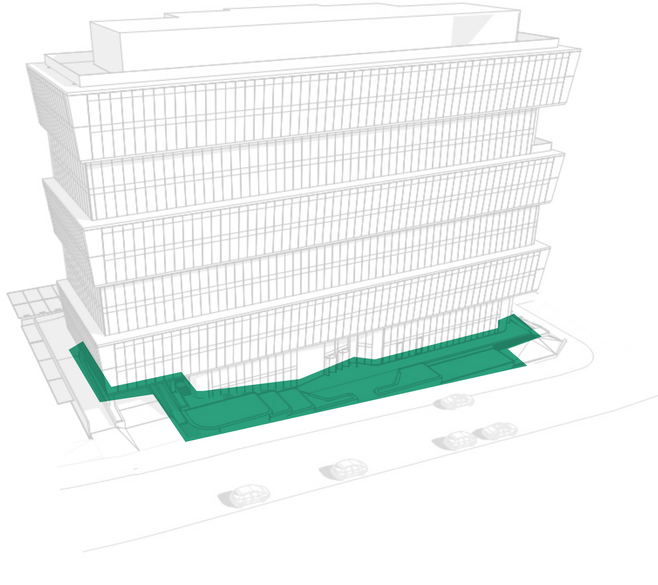
'MACQUARIE PARK WILL MATURE INTO A PREMIUM LOCATION FOR GLOBALLY COMPETITIVE BUSINESSES WITH STRONG LINKS TO THE UNIVERSITY AND RESEARCH INSTITUTIONS AND AN ENHANCED SENSE OF IDENTITY. THE CORRIDOR WILL BE CHARACTERISED BY A HIGH-QUALITY, WELL DESIGNED, SAFE AND LIVABLE ENVIRONMENT THAT REFLECTS THE NATURAL SETTING, WITH THREE ACCESSIBLE AND VIBRANT RAILWAY STATION AREAS PROVIDING FOCAL POINTS. RESIDENTIAL AND BUSINESS AREAS WILL BE BETTER INTEGRATED AND AN IMPROVED LIFESTYLE WILL BE FORGED FOR ALL THOSE WHO LIVE, WORK AND STUDY IN THE AREA.

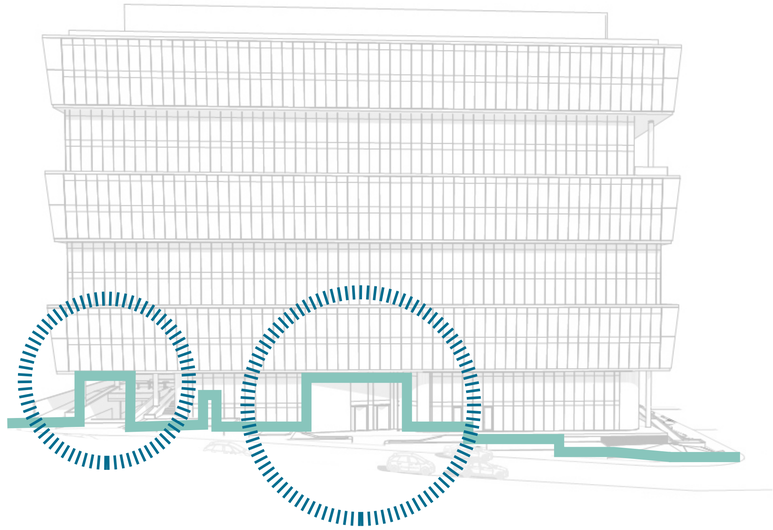


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# PRINCIPLES









## PUBLIC REALM INTERFACE

PROVIDING A BLURRED EDGE BETWEEN STREETSCAPE AND BUILDING PODIUM THROUGH SOFT LANDSCAPE WILL MASSAGE CHANGE IN LEVEL AND BUILT FORM. MAXIMISING THE DEEP SOIL AREAS WILL ALLOW FOR SIGNIFICANT PLANTING AND THE OPPORTUNITY TO MASSAGE LANDSCAPE LEVELS.



## WORK PLACE RETREAT

EXTENSIVE LANDSCAPING WILL CREATE A NEW COMMUNITY HUB FOR THE COMMERCIAL SITE, PROVIDING AREAS OF RETREAT AND INFORMAL MEETING SPACES. A DIVERSE RANG E OF FLEXIBLE SPACES WILL ALLOW FOR LARGE GATHERINGS AND SMALL PRIVATE INDIVIDUAL SPACES.



## WAY-FINDING AND ACCESSIBILITY

SPACES WILL BE PURPOSEFULLY DESIGNED TO CONNECT INDIVIUALS , LINKING TO ADJACENT SPACES AND ADJOINING BUILDINGS RESULTING IN A SEAMLES CONNECTION FROM EXTERIOR INTO INTERIOR.

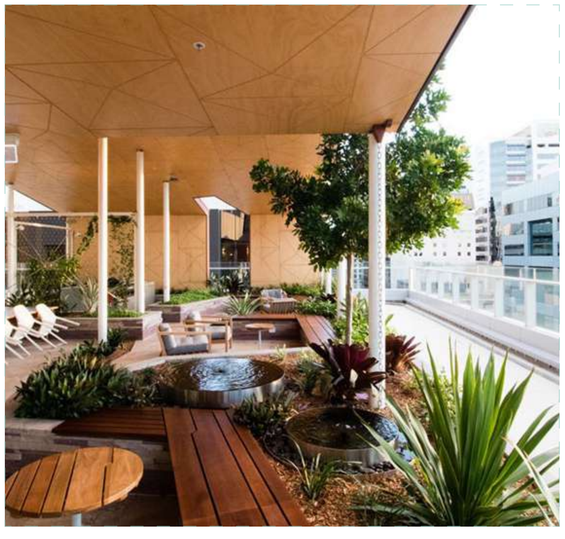
ARCADIA
LANDSCAPE ARCHITECTURE

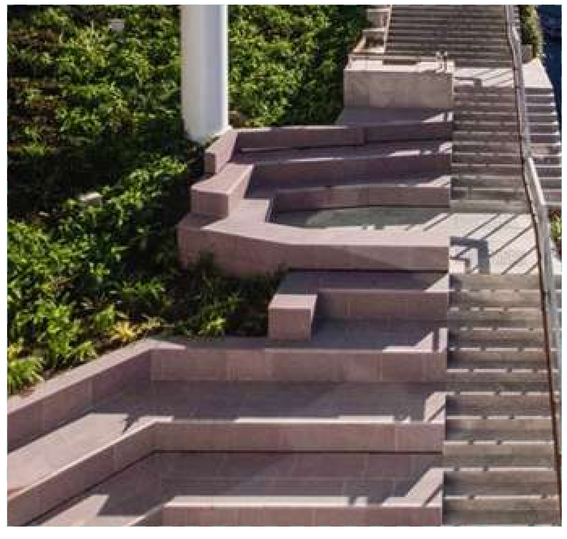
97 WATERLOO ROAD
DEVELOPMENT APPLICATION

| | | | |
|---|---|---|---|
| **PREPARED BY** | Arcadia Landscape Architecture | **DATE** | SEP 2018 |
| **CLIENT** | GOODMAN | **SCALE** | |
| **ARCHITECT** | Rice Daubney | **ISSUE** | B |

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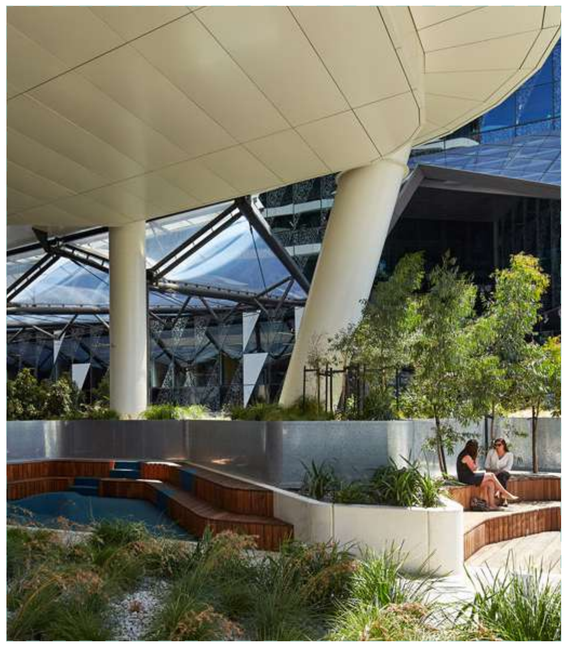
## CHARACTER GROUND





INTEGRATED LEVEL CHANGE





BREAK OUT SPACES



A LIVING WORKING ENVIRONMENT

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LANDSCAPE ARCHITECTURE

97 WATERLOO ROAD
DEVELOPMENT APPLICATION

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# MASTERPLAN

01/ terrace planting
02 /seating edge
03 /feature trees in seating planter
04/ deep planting
05/ streetscape as per Macquarie DCP council
06 / basement access
07 / 1:14 ramp access
8/ low level to mid level planting
09/ function space
10/ podium planters on slab
11/ Informal terrace steps
12/ loading bay
13/ 1:20 access ramp




ARCADIA
LANDSCAPE ARCHITECTURE

97 WATERLOO ROAD
DEVELOPMENT APPLICATION

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| SCALE | SCALE 1:150 |
| ISSUE | B |

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# PUBLIC REALM PLAN

01/ Footpath - Granite paving equal to black - flame exfoliated 600 mm x 300 mm x 60 mm

02 /Proposed Street - Tree  Angophora costata at 8m Centres

03 /Driveway -Granite paving equal to black - flame exfoliated 150 mm x 100 mm x 60 mm

04/ Lighting - Spaced 40 metres apart; staggered configuration (subject to design)

05/ Planting beds Lomandra Longifolia ('Tanika' Spiny-head Mat Rush) or Dianella caerulea (Blueberry lily)

06/Kerb ramps










PROPOSED ROAD

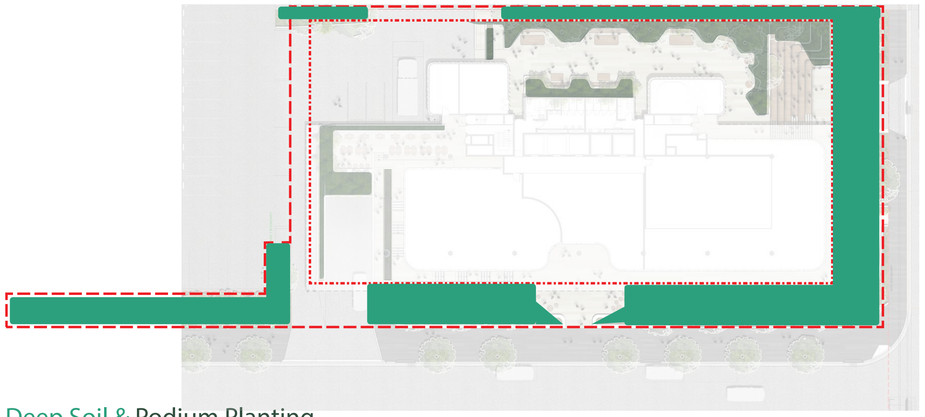
ARCADIA
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97 WATERLOO ROAD
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| **PREPARED BY** | Arcadia Landscape Architecture |
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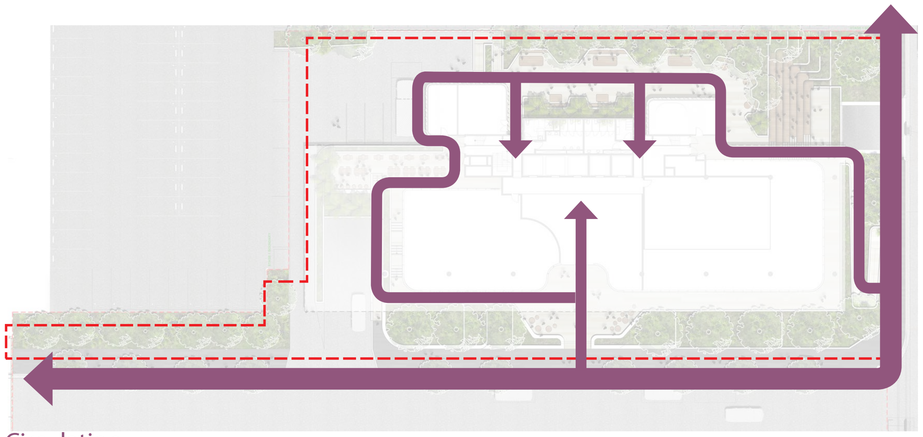
# NETWORKS



Deep Soil & Podium Planting

deep soil

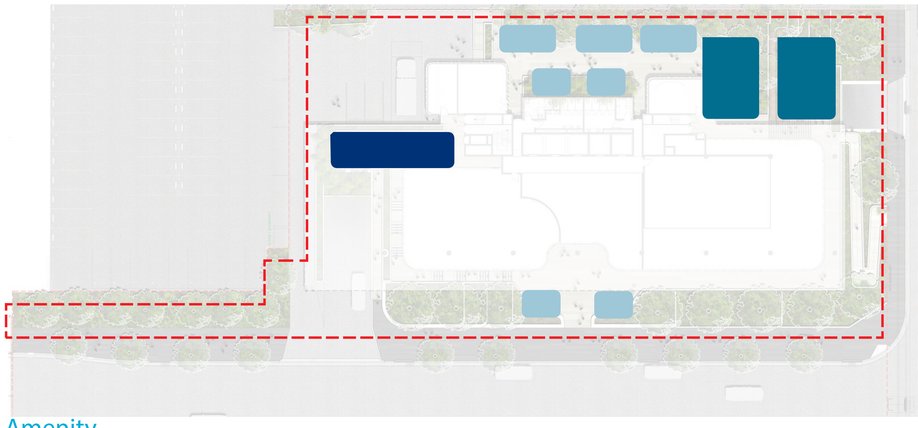
podium planting



Circulation




Levels



Amenity

groups 1-4

groups 5 - 20

groups 20 +

ARCADIA
LANDSCAPE ARCHITECTURE

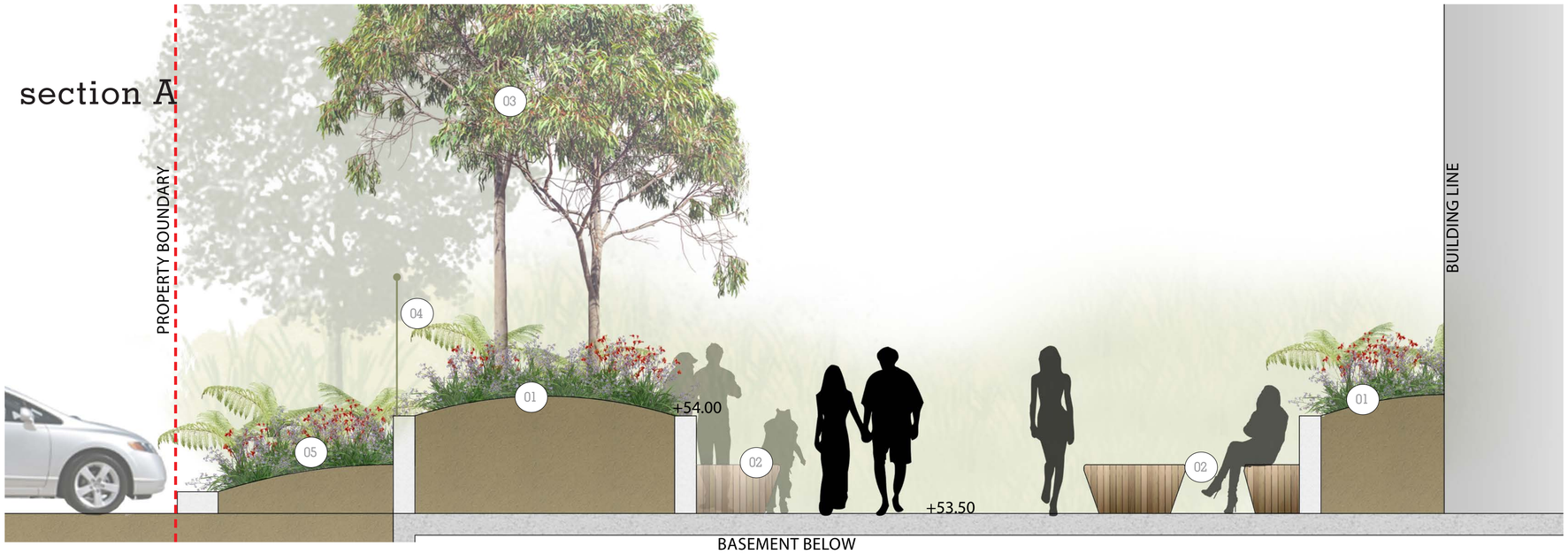
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# SECTIONS

## section A




0 0.5 1 1.5 2 2.5M

01/ podium planter, localised mounding for trees

02 /seating edge and tables

03 /feature trees

04/ Fence to adjacent property

05/ Deep soil



## section B




0 0.5 1 1.5 2 2.5M

01/ footpath and street tree as per Maquarie Park DCP

02 /seating edge

03 /deep soil planting behind

04/ lobby and cafe spill out



ARCADIA LANDSCAPE ARCHITECTURE

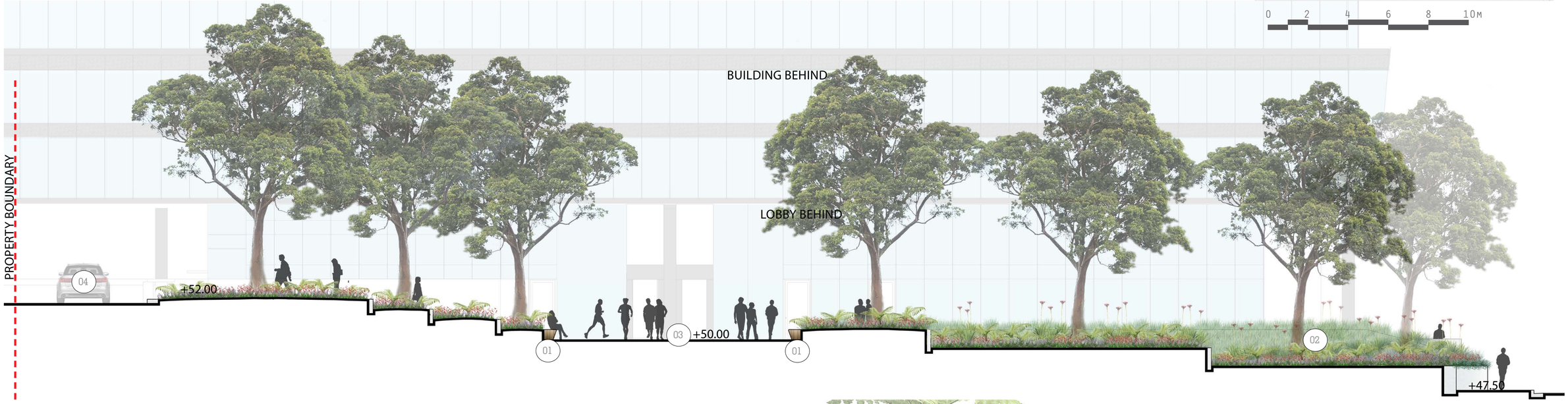
97 WATERLOO ROAD
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# SECTIONS

## section C

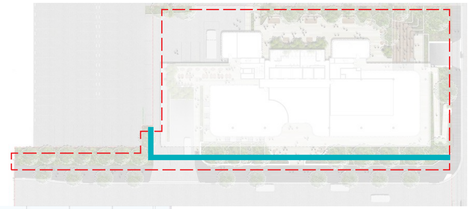



01 /seating edge

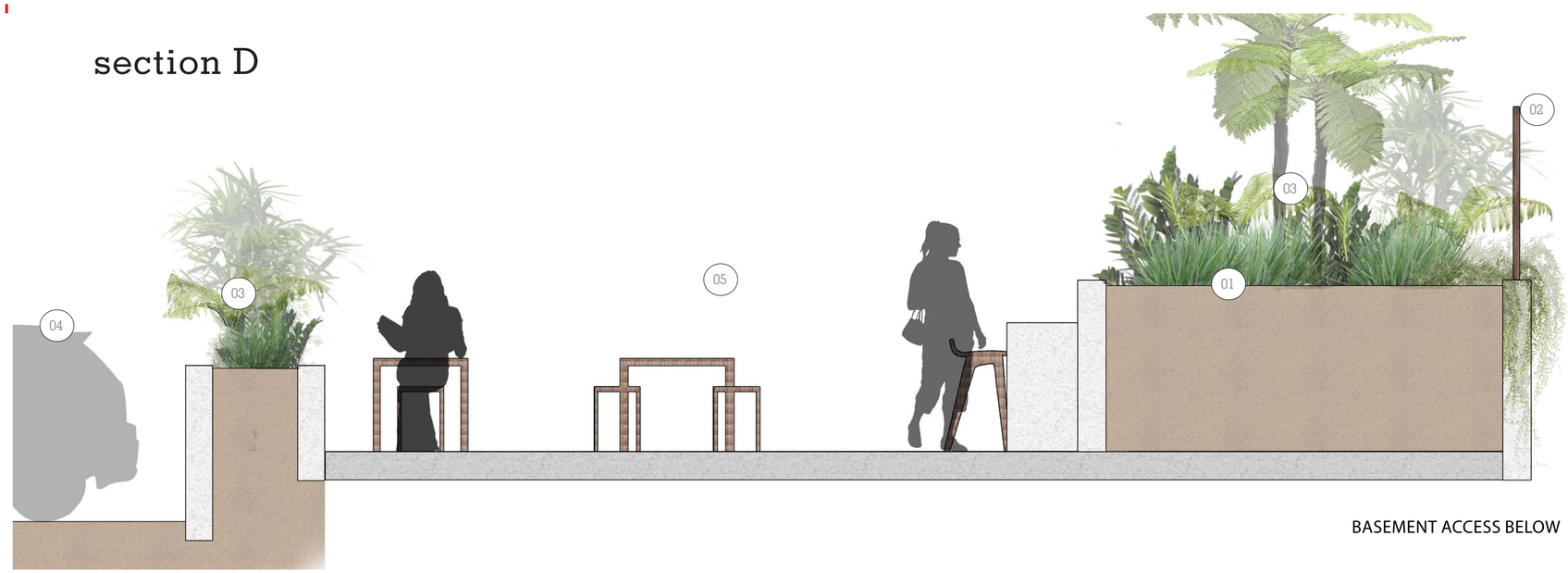
02 /deep soil planting

03/ lobby and cafe spill out

04/ Basement access




## section D



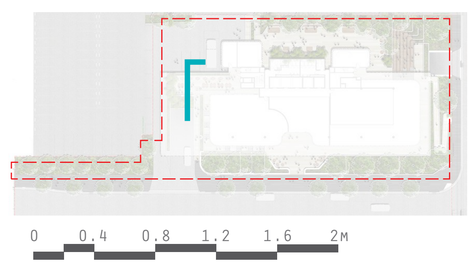

01 /podium planter

02 /balustrade

03/sreen planting

04/ loading bay

05/ function space/ seating area




BASEMENT ACCESS BELOW

ARCADIA
LANDSCAPE ARCHITECTURE

97 WATERLOO ROAD
DEVELOPMENT APPLICATION

| | | | |
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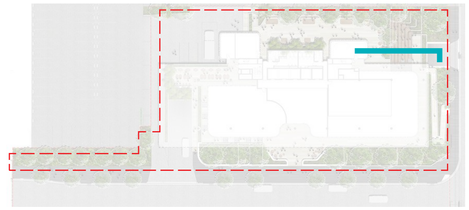
# SECTIONS

01/ timber terrace seats

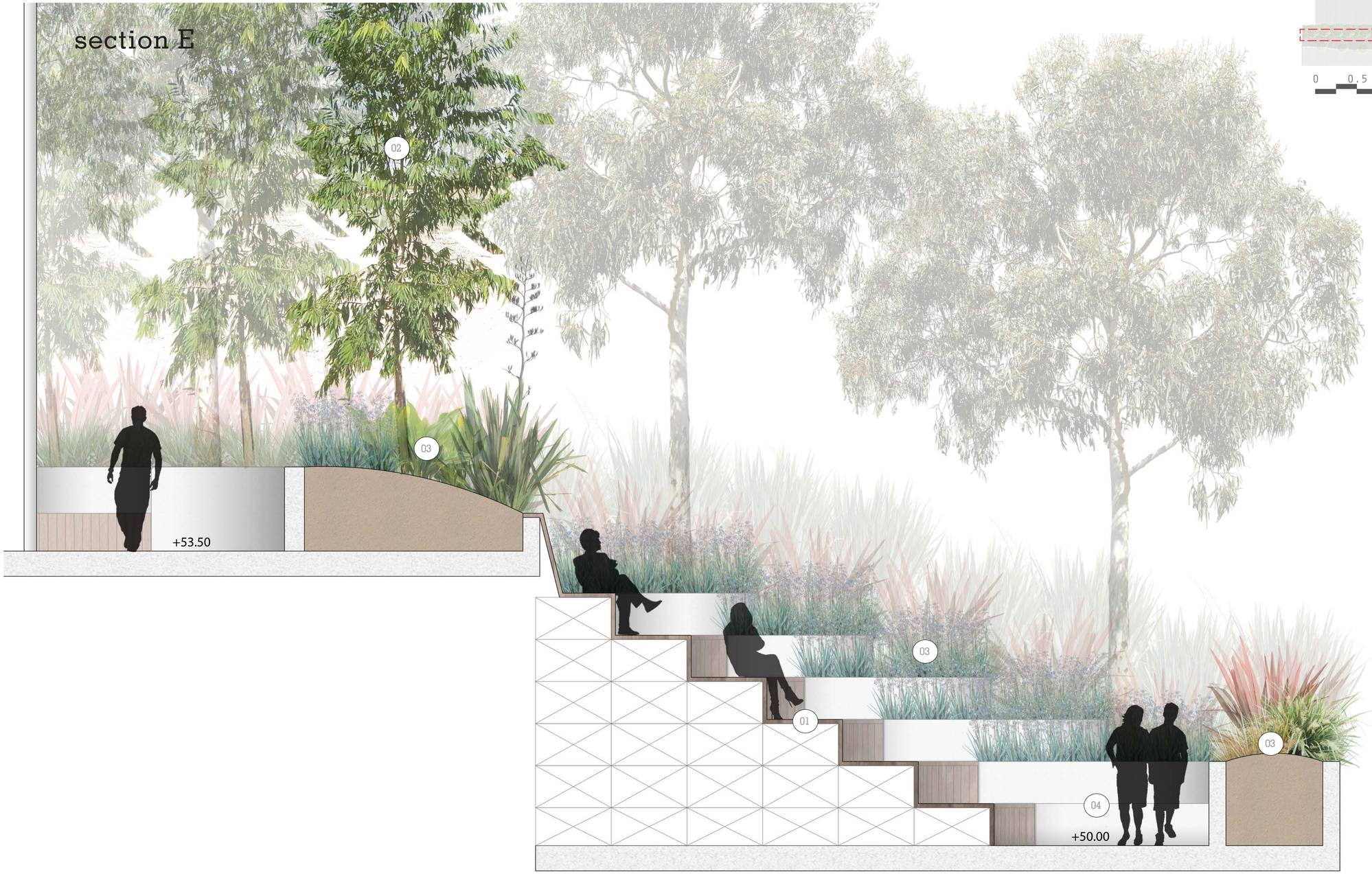
02 /shade trees

03 /podium planting

04/ presentation space



0 0.5 1 1.5 2 2.5M




ARCADIA LANDSCAPE ARCHITECTURE

97 WATERLOO ROAD
DEVELOPMENT APPLICATION

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# PLANTING STRATEGY

UNDERCROFT & SOUTH FACING



plectrianthus australis swedish ivy



rhapis exelsea lady finger palm



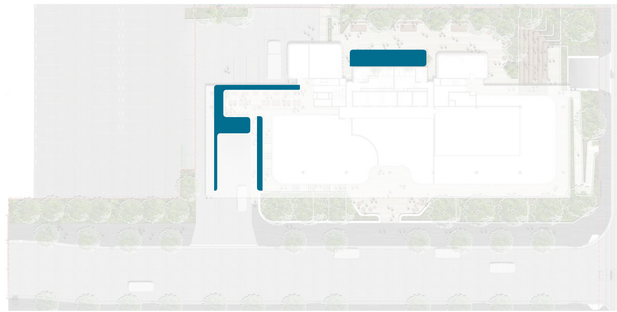
blechnum gibbon silver lady



asplenium australis birds nest fern



cyathea australis tree fern



STREET FRONTAGE & WEST FACING



casuarina glauca cousin it



Carpobrotus glaucescens pig face



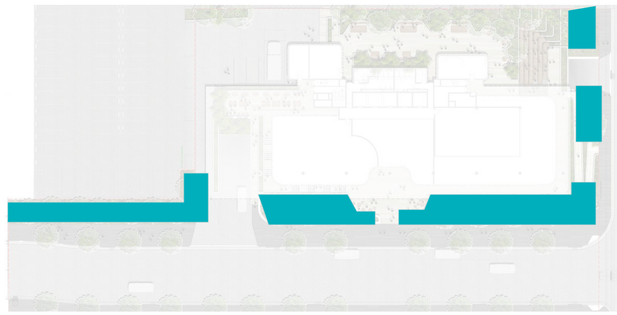
cycas revoluta king sago



anigozanthos-flavidus kangaroo paw



angophora costata Smooth-barked apple



DEEP SOIL & SCREENING



agathis robusta kauri pine



elaeocarpus_eumundii



cupaniopsis anacardioides tuckeroo



lomandra tanika birds nest fern



doryanthes-excelsa gymea lilly



ARCADIA LANDSCAPE ARCHITECTURE

97 WATERLOO ROAD
DEVELOPMENT APPLICATION

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# PLANTING SCHEDULE

## 16-403 97 Waterloo Rd PLANT SCHEDULE

| CODE | BOTANIC NAME | COMMON NAME | MATURE SIZE (h x w) (m) | PROPOSED POT SIZE | QUANTITY |
|---|---|---|---|---|---|
| | **TREES & PALMS** | | | | |
| Ac | *Angophora costata* | Sydney Red Gum | 20 x 6 | 75L | 32 |
| Ca | *Cupaniopsis anacardioides* | Tuckeroo | 8 x 5 | 75L | 6 |
| Ee | *Elaeocarpus eumundi* | Quandong | 10 x 6 | 75L | 13 |
| Tl | *Tristaniopsis laurina* | Water Gum | 10 x 5 | 75L | 8 |
| | **SHRUBS & ACCENTS** | | | | |
| Am | *Alocasia macrorrhiza* | Elephants Ears | 2 x 1.5 | 200mm | 18 |
| Amu | *Alpinia mutica* | Cardamon Ginger | 1.5 x 1 | 200mm | 60 |
| Crs | *Cordyline 'Red Sensation'* | Red Sensation Cabbage Palm | 2.5 x 2 | 200mm | 37 |
| De | *Doryanthes excelsa* | Gymea Lily | 3 x 1.5 | 200mm | 88 |
| Px | *Philodendron 'Xanadu'* | Xanadu | 1 x 1 | 150mm | 53 |
| Rex | *Rhapis excelsa* | Lady Palm | 3 x 3 | 200mm | 63 |
| | **GRASSES & RUSHES** | | | | |
| Dc | *Dianella caerula 'Little Jess'* | Little Jess | 0.5 x 0.5 | 150mm | 508 |
| Hl | *Hymenocallis littoralis* | Beach Spider Lily | 0.7 x 0.7 | 150mm | 293 |
| Lt | *Lomandra 'Tanika'* | Mat Rush | 0.6 x 0.6 | 150mm | 263 |
| Leg | *Liriope muscari 'Evergreen Giant'* | Lilyturf | 0.5 x 0.5 | 150mm | 107 |
| Sr | *Strelitzia reginae* | Bird of Paradise | 2 x 2 | 200mm | 39 |
| | **FERNS & CYCADS** | | | | |
| Aa | *Asplenium australasicum* | Birds Nest Fern | 1.5 x 1.5 | 200mm | 42 |
| Bs | *Blechnum Silver Lady Fern* | Silver Lady Fern | 1.5 x 1.5 | 200mm | 116 |
| Cr | *Cycas revoluta* | Cycad | 1.5 x 1 | 150mm | 164 |
| Cc | *Cyathea cooperi* | Tree Fern | 5 x 2 | 300mm | 17 |
| | **GROUNDCOVERS & CLIMBERS** | | | | |
| Cg | *Casuarina glauca* | Swamp she-oak | 0.2 x spreading | 150mm | 142 |
| Mp | *Myoporum parvifolium* | Creeping Boobialla | 0.15 x spreading | 150mm | 138 |
| Pa | *Plectranthus australis* | Swedish ivy | 0.3 x spreading | 150mm | 143 |
| Re | *Russelia equisetiformis* | Firecracker | 0.7 x spreading | 150mm | 143 |
| Tj | *Trachelospermum jasminoides* | Star Jasmine | 0.25 x 1 | 150mm | 102 |
| Vh | *Viola hederacea* | Native Violet | 0.2 x 0.5 | 150mm | 158 |

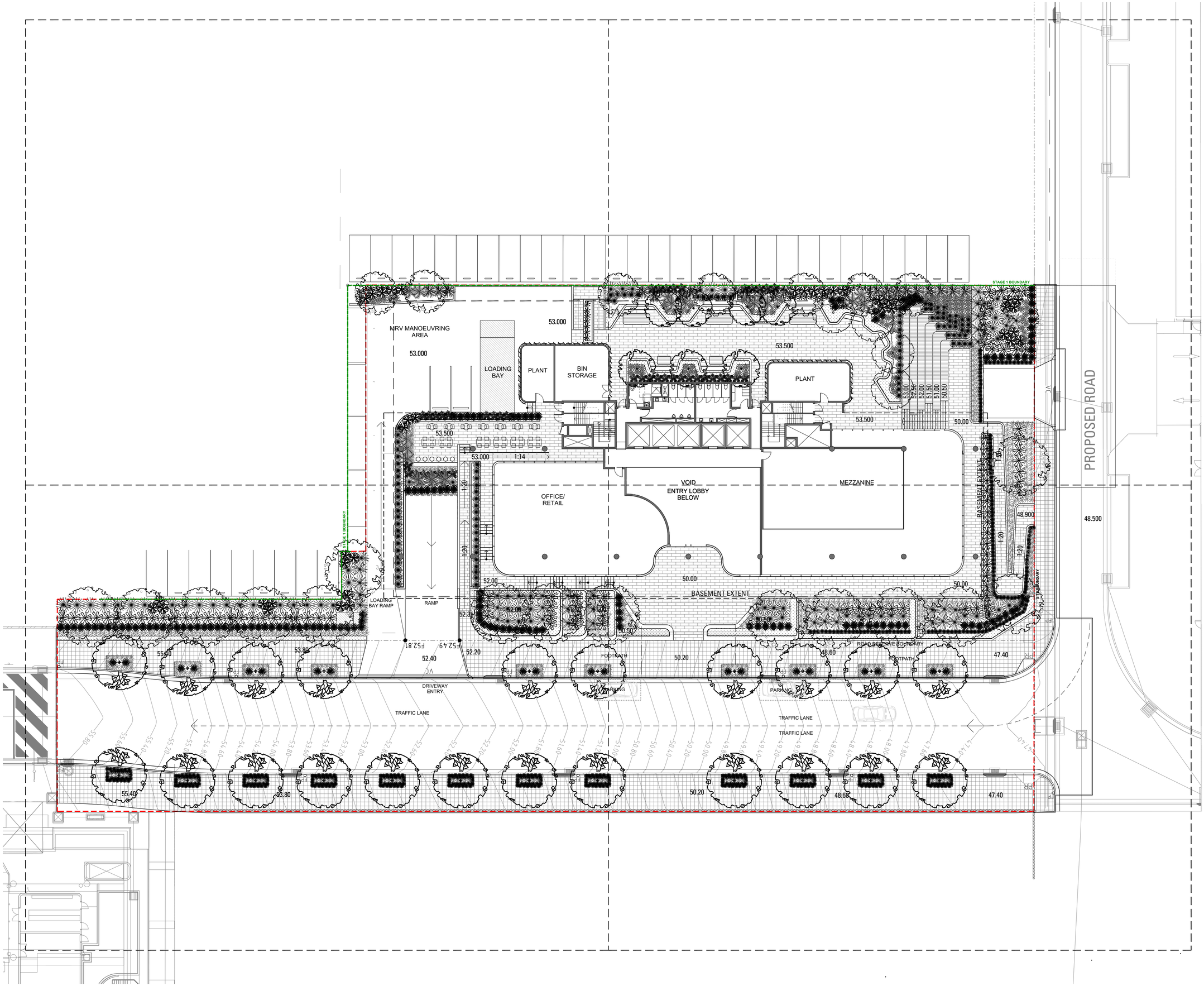


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# APPENDIX


101 MASTERPLAN
201 SOFTSCAPE PLAN
202 SOFTSCAPE PLAN
203 SOFTSCAPE PLAN
204 SOFTSCAPE PLAN
600 DETAILS AND SPECIFICATION


ARCADIA
LANDSCAPE ARCHITECTURE




## LEGEND

MASTERPLAN

- UNIT PAVING — Refer Landscape Specification
- TIMBER DECKING — Refer Landscape Specification
- EXISTING TREES TO BE RETAINED — Refer Landscape Specification
- EXISTING TREES TO BE REMOVED — Refer Landscape Specification
- TREE PLANTING — Refer Landscape Specification
- SHRUB AND ACCENT PLANTING — Refer Landscape Specification
- GROUNDCOVER PLANTING — Refer Landscape Specification

**NOT FOR CONSTRUCTION**

| Issue | Revision Description | Drawn | Check | Date |
|---|---|---|---|---|
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| B | DA SUBMISSION | AK | AL | 12.09.2018 |
| A | DA SUBMISSION | MD | AL | 17.03.2017 |

# 97 WATERLOO RD MACQUARIE PARK

**DEVELOPMENT APPLICATION**

**GOODMAN**

DRAWING NAME Master plan

| JOB# | SHEET# | ISSUE |
|---|---|---|
| 16-403 | 100 | B |

NORTH

SCALE 1:200 @ A1

0 1 2 4 6 10m

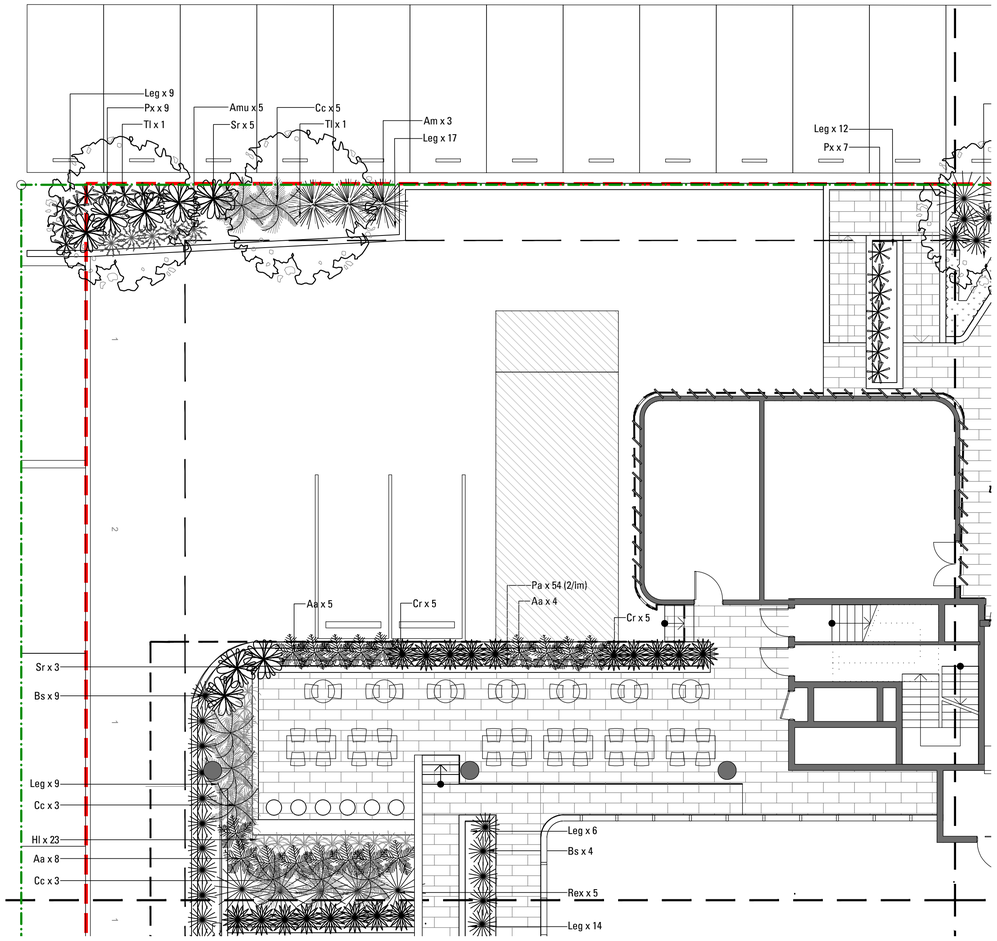
ARCADIA LANDSCAPE ARCHITECTURE

Lower Deck Jones Bay Wharf Suite 76 / 26-32 Pirrama Rd
Pyrmont 2009 NSW p 61 2 8571 2900

## LEGEND

MASTERPLAN

- UNIT PAVING
  Refer Landscape Specification
- TIMBER DECKING
  Refer Landscape Specification
- EXISTING TREES TO BE RETAINED
  Refer Landscape Specification
- EXISTING TREES TO BE REMOVED
  Refer Landscape Specification
- TREE PLANTING
  Refer Landscape Specification
- SHRUB AND ACCENT PLANTING
  Refer Landscape Specification
- GROUNDCOVER PLANTING
  Refer Landscape Specification




**NOT FOR CONSTRUCTION**

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# 97 WATERLOO RD MACQUARIE PARK

## DEVELOPMENT APPLICATION

## GOODMAN

DRAWING NAME Softworks Plan

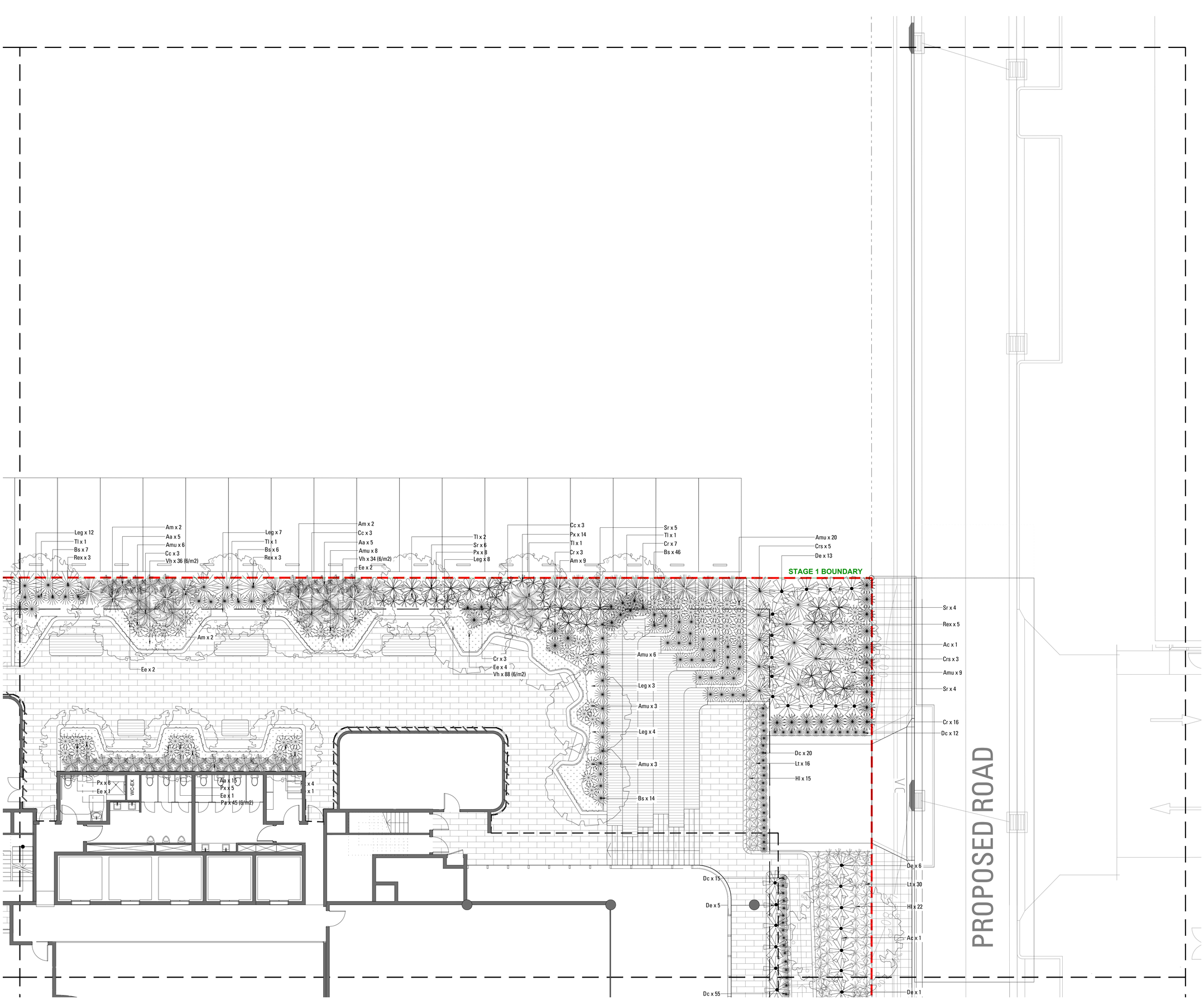
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ARCADIA
LANDSCAPE ARCHITECTURE
Lower Deck Jones Bay Wharf Suite 76 / 26-32 Pirrama Rd
Pyrmont 2009 NSW p 61 2 8571 2900




## LEGEND

MASTERPLAN

- UNIT PAVING
  Refer Landscape Specification
- TIMBER DECKING
  Refer Landscape Specification
- EXISTING TREES TO BE RETAINED
  Refer Landscape Specification
- EXISTING TREES TO BE REMOVED
  Refer Landscape Specification
- TREE PLANTING
  Refer Landscape Specification
- SHRUB AND ACCENT PLANTING
  Refer Landscape Specification
- GROUNDCOVER PLANTING
  Refer Landscape Specification

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# 97 WATERLOO RD MACQUARIE PARK

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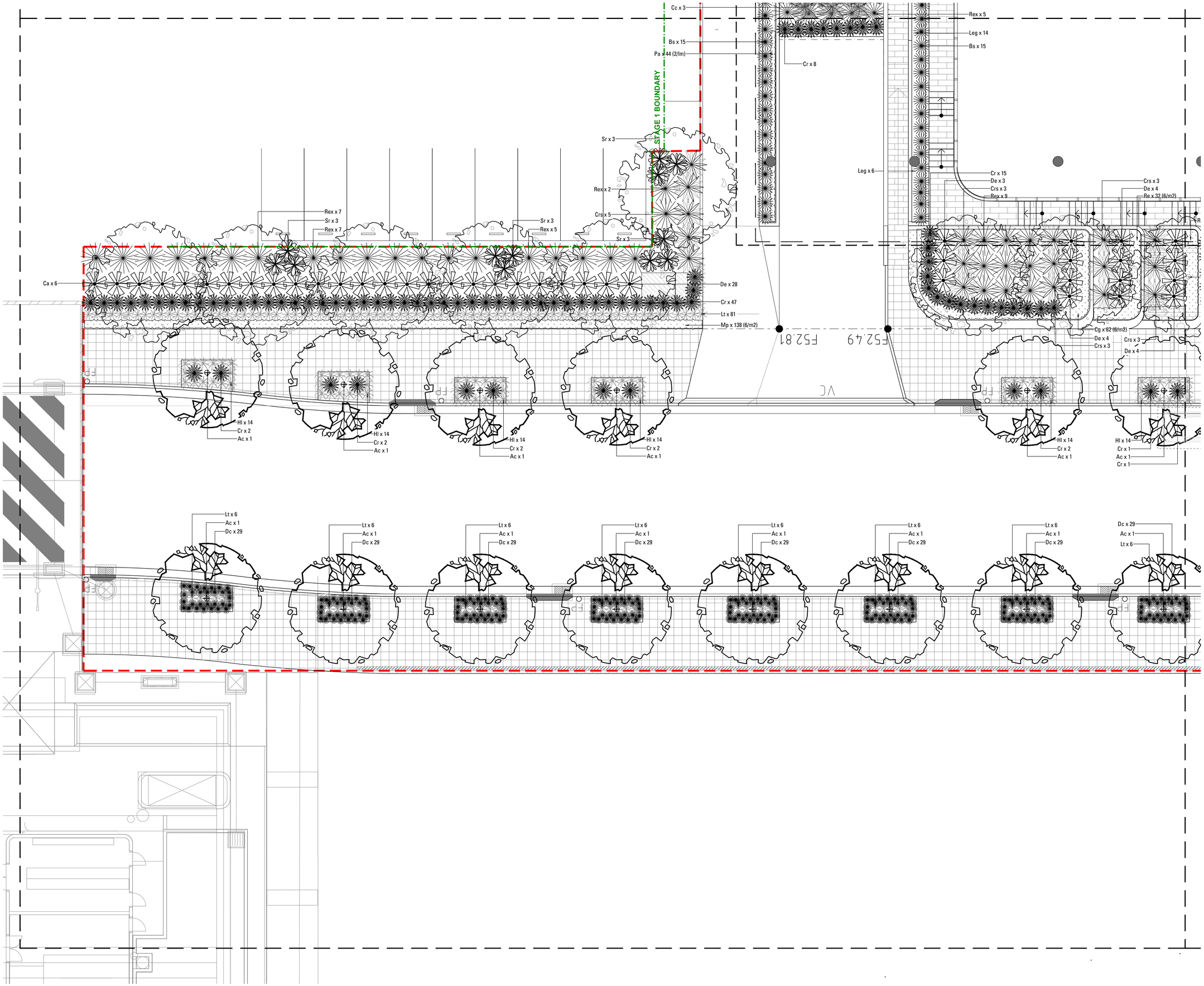
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ARCADIA
LANDSCAPE ARCHITECTURE
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## LEGEND

MASTERPLAN

- UNIT PAVING — Refer Landscape Specification
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ARCADIA LANDSCAPE ARCHITECTURE

Lower Deck Jones Bay Wharf Suite 76 / 26-32 Pirrama Rd
Pyrmont 2009 NSW p 61 2 8571 2900

Dc x 55
De x 14
De x 1
Lt x 3
Hl x 8
Lt x 25
Hl x 36
SITE BOUNDARY
Re x 40 (6/m2)
Ac x 3
Tj x 32 (6/m2)
Hl x 9
Cr x 5
Rex x 6
Hl x 12
Ac x 5
Hl x 14
Lt x 22
Crs x 6
De x 6
Rex x 6
Cr x 9
Dc x 27
Re x 68 (6/m2)
Hl x 14
Lt x 14
Crs x 6
Cr x 10
Tj x 70 (6/m2)
Cg x 61 (6/m2)
Dc x 31
Cr x 11
Rex x 5
Hl x 14
Cr x 2
Ac x 1
Lt x 6
Ac x 1
Dc x 29

## LEGEND

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# 97 WATERLOO RD MACQUARIE PARK

**DEVELOPMENT APPLICATION**

**GOODMAN**

DRAWING NAME Softworks Plan

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SHEET# 403
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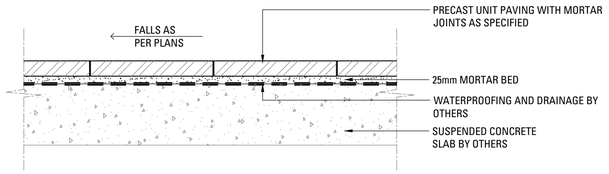
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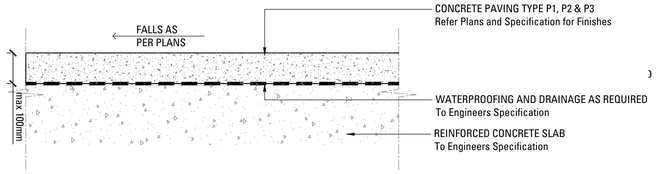
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ARCADIA LANDSCAPE ARCHITECTURE
Lower Deck Jones Bay Wharf Suite 76 / 26-32 Pirrama Rd
Pyrmont 2009 NSW p 61 2 8571 2900

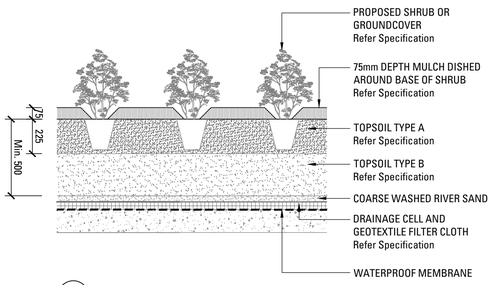
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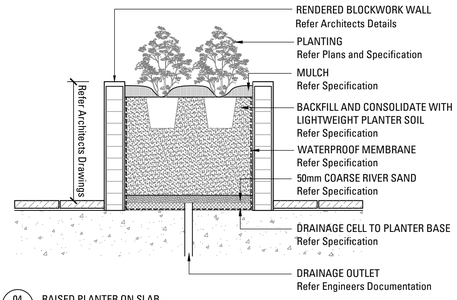

01/500 PRECAST UNIT PAVERS ON SUSPENDED SLAB
SCALE 1:10



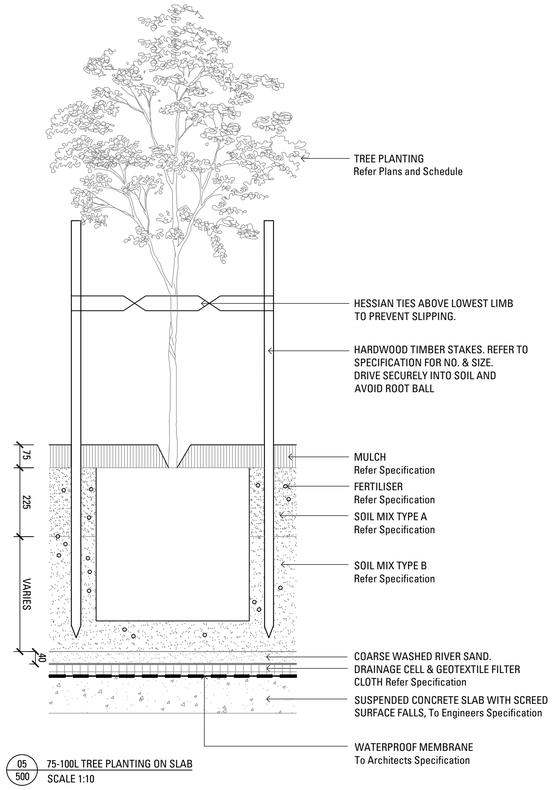

02/500 INSITU CONCRETE PAVING ON SLAB
SCALE 1:10



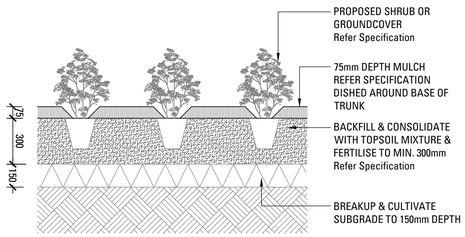

03/500 PLANTING ON SLAB
SCALE 1:20



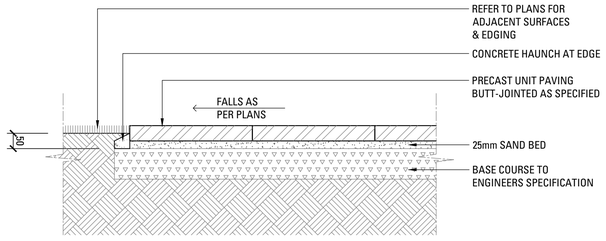

04/500 RAISED PLANTER ON SLAB
SCALE 1:20




05/500 75-100L TREE PLANTING ON SLAB
SCALE 1:10




06/500 SHRUB OR GROUNDCOVER IN PLANTING BED
SCALE 1:20




07/500 PRECAST UNIT PAVERS ON GRADE
SCALE 1:10

LEGEND

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# 97 WATERLOO RD MACQUARIE PARK

DEVELOPMENT APPLICATION

GOODMAN

DRAWING NAME Details

JOB# 16-403
SHEET# 500
ISSUE B
NORTH
SCALE

ARCADIA
LANDSCAPE ARCHITECTURE

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# SPECIFICATION

## LANDSCAPE SPECIFICATION NOTES

**SERVICES**
BEFORE LANDSCAPE WORK IS COMMENCED THE LANDSCAPE CONTRACTOR IS TO ESTABLISH THE POSITION OF ALL SERVICE LINES AND ENSURE TREE PLANTING IS CARRIED OUT AT LEAST 3 METRES AWAY FROM THESE SERVICES. SERVICE LIDS, VENTS AND HYDRANTS SHALL BE LEFT EXPOSED AND NOT COVERED BY ANY LANDSCAPE FINISHES (TURFING, PAVING, GARDEN BEDS ETC.) FINISH ADJOINING SURFACES FLUSH WITH PIT LIDS.

**ABORIST MANAGEMENT OF TREE PROTECTION**
A QUALIFIED AND APPROVED ABORIST IS TO BE CONTRACTED TO UNDERTAKE OR MANAGE THE INSTALLATION OF PROTECTIVE FENCING, AND TO UNDERTAKE SUCH MEASURES AS HE DEEMS APPROPRIATE TO PRESERVE THE SUBJECT TREES TO BE RETAINED. THE ARBORIST IS TO BE RETAINED FOR THE ENTIRE CONTRACT PERIOD TO UNDERTAKE ONGOING MANAGEMENT AND REVIEW OF THE TREES.

**DRAINAGE CELL AND FILTER FABRIC**
FOR ON-SLAB AREAS INSTALL AN APPROVED 'DRAINAGE CELL' PRODUCT TO COMPREHENSIVELY COVER THE BOTTOM OF ALL PLANTERS. OVER DRAINAGE CELL TO ON-SLAB AREAS, A POLYFELT GEOTEXTILE LINING (AS SUPPLIED BY 'POLYFELT TS' OR APPROVED EQUIVALENT) IS TO BE INSTALLED TO COVER THE BOTTOM OF ALL PLANTERS, TURNED UP 300MM AND TAPED TO THE PLANTER SIDES TO ENSURE SOIL MIX DOES NOT ESCAPE INTO DRAINAGE OUTLETS/HOLES. INSTALL MIN. 50MM COARSE RIVER SAND OVER ALL GEOTEXTILE LINING PRIOR TO INSTALLATION OF SOIL MIX.

**PLANTING MIXTURE**
SHALL BE HOMOGENOUS BLEND OF SOIL AND ADDITIVES IN THE FOLLOWING PROPORTIONS:
EXISTING SITE SOIL IF SUITABLE OR
IMPORTED TOPSOIL 50%
COMPOST 30%
D/W SAND 20%
SOIL TESTING OF EXISTING SITE SOIL IS TO BE UNDERTAKEN TO ASSESS SUITABILITY OF USE AS PLANTING TOPSOIL AND COMPLIANCE WITH AUSTRALIAN STANDARDS.

**MULCH APPLICATION**
PLACE MULCH TO THE REQUIRED DEPTH, (REFER TO DRAWINGS) CLEAR OF PLANT STEMS, AND RAKE TO AN EVEN SURFACE FINISHING 25MM BELOW ADJOINING LEVELS. ENSURE MULCH IS WATERED IN AND TAMPED DOWN DURING INSTALLATION.

**MULCH TYPE**
PINE BARK: FROM MATURE TREES, GRADED IN SIZE FROM 15MM TO 30MM, FREE FROM WOOD SLIVERS. DARK BROWN IN COLOUR AND TEXTURE.

**COMPOST**
SHALL BE WELL ROTTED VEGETATIVE MATERIAL OR ANIMAL MANURE, OR OTHER APPROVED MATERIAL, FREE FROM HARMFUL CHEMICALS, GRASS AND WEED GROWTH AND WITH NEUTRAL PH. PROVIDE A CERTIFICATE OF PROOF OF PH UPON REQUEST.

**PLANT MATERIAL**
ALL PLANTS SUPPLIED ARE TO CONFORM WITH THOSE SPECIES LISTED IN THE PLANT SCHEDULE ON THE DRAWINGS. GENERALLY PLANTS SHALL BE VIGOROUS, WELL ESTABLISHED, HARDENED OFF, OF GOOD FORM CONSISTENT WITH SPECIES OR VARIETY, NOT SOFT OR FORCED, FREE FROM DISEASE OR INSECT PESTS WITH LARGE HEALTHY ROOT SYSTEMS AND NO EVIDENCE OF HAVING BEEN RESTRICTED OR DAMAGED. TREES SHALL HAVE A LEADING SHOOT. IMMEDIATELY REJECT DRIED OUT, DAMAGED OR UNHEALTHY PLANT MATERIAL BEFORE PLANTING. ALL STOCK IS TO BE CONTAINER GROWN FOR A MINIMUM OF SIX (6) MONTHS PRIOR TO DELIVERY TO SITE

**FERTILISER MASS PLANTING AREAS:**
FERTILISER SHALL BE 'NUTRICOTE' OR APPROVED EQUIVALENT IN GRANULE FORM INTENDED FOR SLOW RELEASE OF PLANT NUTRIENTS OVER A PERIOD OF APPROXIMATELY NINE MONTHS. THOROUGHLY MIX FERTILISER WITH PLANTING MIXTURE AT THE RECOMMENDED RATE, PRIOR TO INSTALLING PLANTS.

**STAKING AND TYING**
STAKES SHALL BE STRAIGHT HARDWOOD, FREE FROM KNOTS AND TWISTS, POINTED AT ONE END AND
SIZED ACCORDING TO SIZE

OF PLANTS TO BE STAKED.
A. 5-15 LITRE SIZE PLANT 1X(1200X25X25MM)
B. 35-75 LITRE SIZE PLANT 2X(1500X38X38MM)
C. 100-GREATER THAN 200LITRE 3X(1800X50X50MM)
TIES SHALL BE 50MM WIDE HESSIAN WEBBING OR APPROVED EQUIVALENT NAILED OR STAPLED TO STAKE. DRIVE STAKES A MINIMUM ONE THIRD OF THEIR LENGTH, AVOIDING DAMAGE TO THE ROOT SYSTEM, ON THE WINDWARD SIDE OF THE PLANT.

**IRRIGATION SYSTEM**
SUPPLY AN AUTOMATIC WATERING SYSTEM USING 'TORO IRRIGATION SYSTEM' OR SIMILAR APPROVED, WITH MICRO-JET SPRINKLER HEADS AND LOW DENSITY, RUBBER MODIFIED POLYPROPYLENE RETICULATION, TO INCLUDE FILTERS, BENDS JUNCTIONS, ENDS AND OTHER ANCILLARY EQUIPMENT. THE LANDSCAPER SHALL NOMINATE HIS SOURCE OF SUPPLY FOR THE WATERING SYSTEM AND OBTAIN APPROVAL FROM THE SUPERINTENDENT BEFORE PLACING ORDERS FOR EQUIPMENT OR SUPPLY.

A SCHEMATIC PLAN OF THE PROPOSED IRRIGATION SYSTEM IS TO BE PREPARED BY THE CONTRACTOR, SHOWING SOLENOIDS, PIPE DIAMETERS, AND ALL NOZZLE AND TRICKLE ATTACHMENT TYPES (INCLUDING SPRAY/HEAD ANGLE), FOR REVIEW BY THE SUPERINTENDENT PRIOR TO INSTALLATION

THE CONTRACTOR IS TO LIASE WITH THE HYDRAULIC ENGINEER AND COUNCIL AS NECESSARY, TO ENSURE THE THE IRRIGATION SYSTEM CONFORMS WITH ALL THE COUNCIL AND WATER BOARD CODES AND REQUIREMENTS.

PROVIDE AN AUTOMATIC CONTROLLER THAT PROVIDES FOR TWO WEEK SCHEDULING AND HOURLY MULTI-CYCLE OPERATION. THE CONTROLLER SHALL MANUAL OVERRIDE. PROGRAMMING SHALL BE UNDERTAKEN BY THE CONTRACTOR WHO SHALL ADVISE ON THE OPERATION OF THE SYSTEM.

PROVISION OF SECURE HOUSING FOR THE AUTOMATIC IRRIGATION CONTROLLER TO BE LOCATED IN ASSOCIATION WITH THE LANDSCAPE CONTRACTOR AND LOCATION CONFIRMED BY THE SUPERINTENDENT. WIRING TO CONNECT REMOTE SOLENOID LOCATIONS IS TO BE PROVIDED. THE CONTROLLER SHALL BE LOCATED IN A DRY PLACE, PROTECTED FROM THE WEATHER, AND ALL CABLE CONNECTIONS SHALL BE MADE WITH WATERPROOF CONNECTORS.

WATER SUPPLY POINTS TO BE SUPPLIED BY BUILDER.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE AND GUARANTEE SATISFACTORY OPERATION OF THE IRRIGATION SYSTEM.

AFTER THE SYSTEM HAS BEEN INSTALLED TO THE SATISFACTION OF THE SUPERINTENDENT, THE INSTALLATION SHALL BE TESTED UNDER KNOWN WORKING CONDITIONS. ACCEPTANCE OF THE INSTALLED PLANT AND EQUIPMENT SHALL BE SUBJECT TO THESE BEING SATISFACTORY.

**TREATED PINE TIMBER EDGING**
TIMBER EDGE: 100 X 25MM CCA TREATED RADIATA PINE TIMBER STAKES: 50 X 50 X 500MM CCA TREATED RADIATA PINE-SHARPENED AT ONE END. INSTALL IN LOCATIONS SHOWN ON THE DRAWINGS FLUSH TO FINISHED SURFACE LEVELS.

## LANDSCAPE MAINTENANCE PROGRAM

MAINTENANCE SHALL MEAN THE CARE AND MAINTENANCE OF THE LANDSCAPE WORKS BY ACCEPTED HORTICULTURAL PRACTICE AS RECTIFYING ANY DEFECTS THAT BECOME APPARENT IN THE LANDSCAPE WORKS UNDER NORMAL USE. THIS SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, WATERING, MOWING, FERTILISING, RESEEDING, RETURFING, WEEDING, PEST AND DISEASE CONTROL, STAKING AND TYING, REPLANTING, CULTIVATION, PRUNING, AERATING, RENOVATING, TOP DRESSING, MAINTAINING THE SITE IN A NEAT AND TIDY CONDITION AS FOLLOWS:-

**GENERAL**
THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE LANDSCAPE WORKS FOR THE TERM OF THE MAINTENANCE (OR PLANT ESTABLISHMENT) PERIOD TO THE SATISFACTION OF THE COUNCIL. THE LANDSCAPE CONTRACTOR SHALL ATTEND TO THE SITE ON A WEEKLY BASIS. THE MAINTENANCE PERIOD SHALL COMMENCE AT PRACTICAL COMPLETION AND CONTINUE FOR A PERIOD OF TWENTY SIX (26) WEEKS.

**WATERING**
GRASS, TREES AND GARDEN AREAS SHALL BE WATERED REGULARLY SO AS TO ENSURE CONTINUOUS HEALTHY GROWTH.

**RUBBISH REMOVAL**
DURING THE TERM OF THE MAINTENANCE PERIOD THE LANDSCAPE CONTRACTOR SHALL REMOVE RUBBISH THAT MAY OCCUR AND REOCCUR THROUGHOUT THE MAINTENANCE PERIOD. THIS WORK SHALL BE CARRIED OUT REGULARLY SO THAT AT WEEKLY INTERVALS THE AREA MAY BE OBSERVED IN A COMPLETELY CLEAN AND TIDY CONDITION.

**REPLACEMENTS**
THE LANDSCAPE CONTRACTOR SHALL REPLACE ALL PLANTS THAT ARE MISSING, UNHEALTHY OR DEAD AT THE LANDSCAPE CONTRACTOR'S COST. REPLACEMENTS SHALL BE OF THE SAME SIZE, QUALITY AND SPECIES AS THE PLANT THAT HAS FAILED UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT. REPLACEMENTS SHALL BE MADE ON A CONTINUING BASIS NOT EXCEEDING TWO (2) WEEKS AFTER THE PLANT HAS DIED OR IS SEEN TO BE MISSING.

**STAKES AND TIES**
THE LANDSCAPE CONTRACTOR SHALL REPLACE OR ADJUST PLANT STAKES, AND TREE GUARDS AS NECESSARY OR AS DIRECTED BY THE LANDSCAPE ARCHITECT. REMOVE STAKES AND TIES AT THE END OF THE MAINTENANCE PERIOD IF SO DIRECTED.

**PRUNING**
TREES AND SHRUBS SHALL BE PRUNED AS DIRECTED BY THE LANDSCAPE ARCHITECT. PRUNING WILL BE DIRECTED AT THE MAINTENANCE OF THE DENSE FOLIAGE OR MISCELLANEOUS PRUNING AND BENEFICIAL TO THE CONDITION OF THE PLANTS. ANY DAMAGED GROWTH SHALL BE PRUNED. ALL PRUNED MATERIAL SHALL BE REMOVED FROM THE SITE.

**MULCHED SURFACES**
ALL MULCHED SURFACES SHALL BE MAINTAINED IN A CLEAN AND TIDY CONDITION AND BE REINSTATED IF NECESSARY TO ENSURE THAT A DEPTH OF 75MM IS MAINTAINED. ENSURE MULCH IS KEPT CLEAR OF PLANT STEMS AT ALL TIMES.

**PEST AND DISEASED CONTROL**
THE LANDSCAPE CONTRACTOR SHALL SPRAY AGAINST INSECT AND FUNGUS INFESTATION WITH ALL SPRAYING TO BE CARRIED OUT IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS. REPORT ALL INSTANCES OF PESTS AND DISEASES (IMMEDIATELY THAT THEY ARE DETECTED) TO THE LANDSCAPE ARCHITECT.

**GRASS AND TURF AREAS**
THE LANDSCAPE CONTRACTOR SHALL MAINTAIN ALL GRASS AND TURF AREAS BY WATERING, WEEDING, DRESSING, ROLLING, MOWING, TRIMMING OR OTHER OPERATIONS AS NECESSARY. SEED AND TURF SPECIES SHALL BE THE SAME AS THE ORIGINAL SPECIFIED MIXTURE. GRASS AND TURF AREAS SHALL BE SPRAYED WITH APPROVED SELECTIVE HERBICIDE AGAINST BROAD LEAFED WEEDS AS REQUIRED BY THE LANDSCAPE ARCHITECT AND IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS. GRASS AND TURF AREAS SHALL BE FERTILISED ONCE A YEAR IN AUTUMN WITH "DYNAMIC LIFTER" FOR LAWNS AT A RATE OF 20KG PER 100M2. FERTILISER SHALL BE WATERED IN IMMEDIATELY AFTER APPLICATION. IRREGULARITIES IN THE GRASS AND TURF SHALL BE WATERED IN IMMEDIATELY AFTER APPLICATION. GRASS AND TURF AREAS SHALL BE KEPT MOWN TO MAINTAIN A HEALTHY AND VIGOROUS SWARD. MOWING HEIGHT: 30-50MM.

**WEED ERADICATION**
ERADICATE WEEDS BY ENVIRONMENTALLY ACCEPTABLE METHODS USING A NON-RESIDUAL GLYPHOSATE HERBICIDE (EG. 'ROUNDUP') IN ANY OF ITS REGISTERED FORMULAE, AT THE RECOMMENDED MAXIMUM RATE. REGULARLY REMOVE BY HAND, WEED GROWTH THAT MAY OCCUR OR RECUR THROUGHOUT GRASSED, PLANTED AND MULCHED AREAS. REMOVE WEED GROWTH FROM AN AREA 750MM DIAMETER AROUND THE BASE OF TREES IN GRASSED AREAS. CONTINUE ERADICATION THROUGHOUT THE COURSE OF THE WORKS AND DURING THE MAINTENANCE PERIOD.

**SOIL SUBSIDENCE**
ANY SOIL SUBSIDENCE OR EROSION WHICH MAY OCCUR AFTER THE SOIL FILLING AND PREPARATION OPERATIONS SHALL BE MADE GOOD BY THE LANDSCAPE CONTRACTOR AT NO COST TO THE CLIENT.



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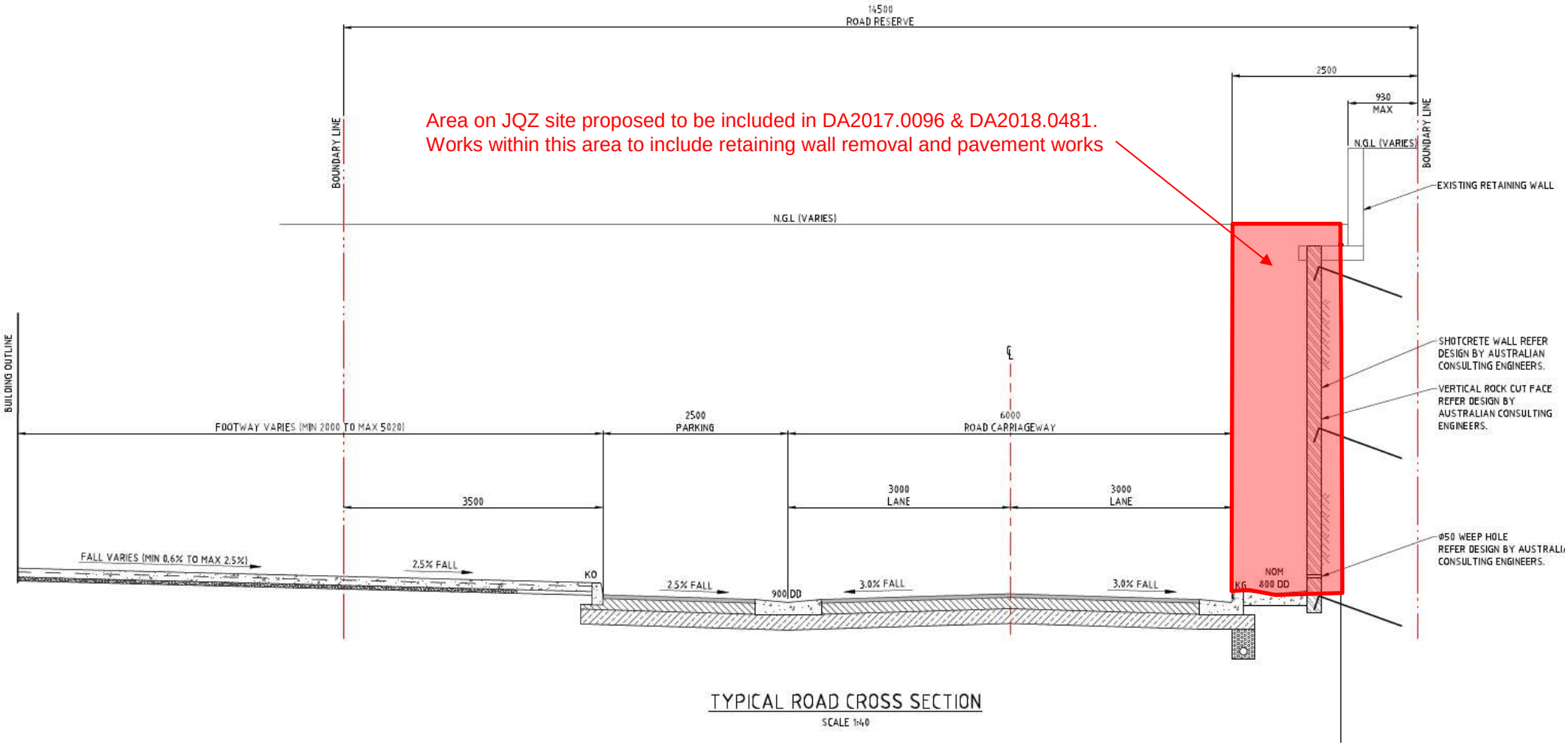
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ARCADIA
LANDSCAPE ARCHITECTURE
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## Typical Section of Road 27

Prepared by Goodman

19.03.19 Issue A