KEY:

Building

Flood Hazard

Low Hazard

Transitional Hazard

High Hazard

0 15 30 45 m

FOR INFORMATION ONLY

Rev.	Date	ISSUE	Prepare	Approve
A	26/06/20	FIRST ISSUE	MZ	AV

WSP Australia Pty Limited
680 George Street
Sydney, NSW
2000 Australia
www.wsp.com

Waterloo - OSD

Baseline - Food Hazard

20 year ARI

Scale: 1:1000

15/07/20

Project Number: PS119449

Created by: AUMZ501756 - 2020-07-15 13:36:13 - U:\ProjectsAU\PS119xxx\PS119449_Waterloo_OSD_work\4_WIP\Docs\Flood study\Flood Map\Flood Hazard.qgz

KEY:

Building

Flood Hazard

Low Hazard

Transitional Hazard

High Hazard

0 15 30 45 m

FOR INFORMATION ONLY

Rev.	Date	ISSUE	Prepare	Approve
A	26/06/20	FIRST ISSUE	MZ	AV

WSP Australia Pty Limited
680 George Street
Sydney, NSW
2000 Australia
www.wsp.com

Waterloo - OSD

Baseline - Flood Hazard

100 year ARI

Scale: 1:1000

15/07/20

Project Number: PS119449

Created by: AUMZ501756 - 2020-07-15 13:36:20 - U:\ProjectsAU\PS119xxx\PS119449_Waterloo_OSD_work\4_WIP\Docs\Flood study\Flood Map\Flood Hazard.qgz

KEY:

Building

Flood Hazard

Low Hazard

Transitional Hazard

High Hazard

0 15 30 45 m

FOR INFORMATION ONLY

Rev.	Date	ISSUE	Prepare	Approve
A	26/06/20	FIRST ISSUE	MZ	AV

WSP Australia Pty Limited
680 George Street
Sydney, NSW
2000 Australia
www.wsp.com

Waterloo - OSD

Baseline - Flood Hazard

PMF

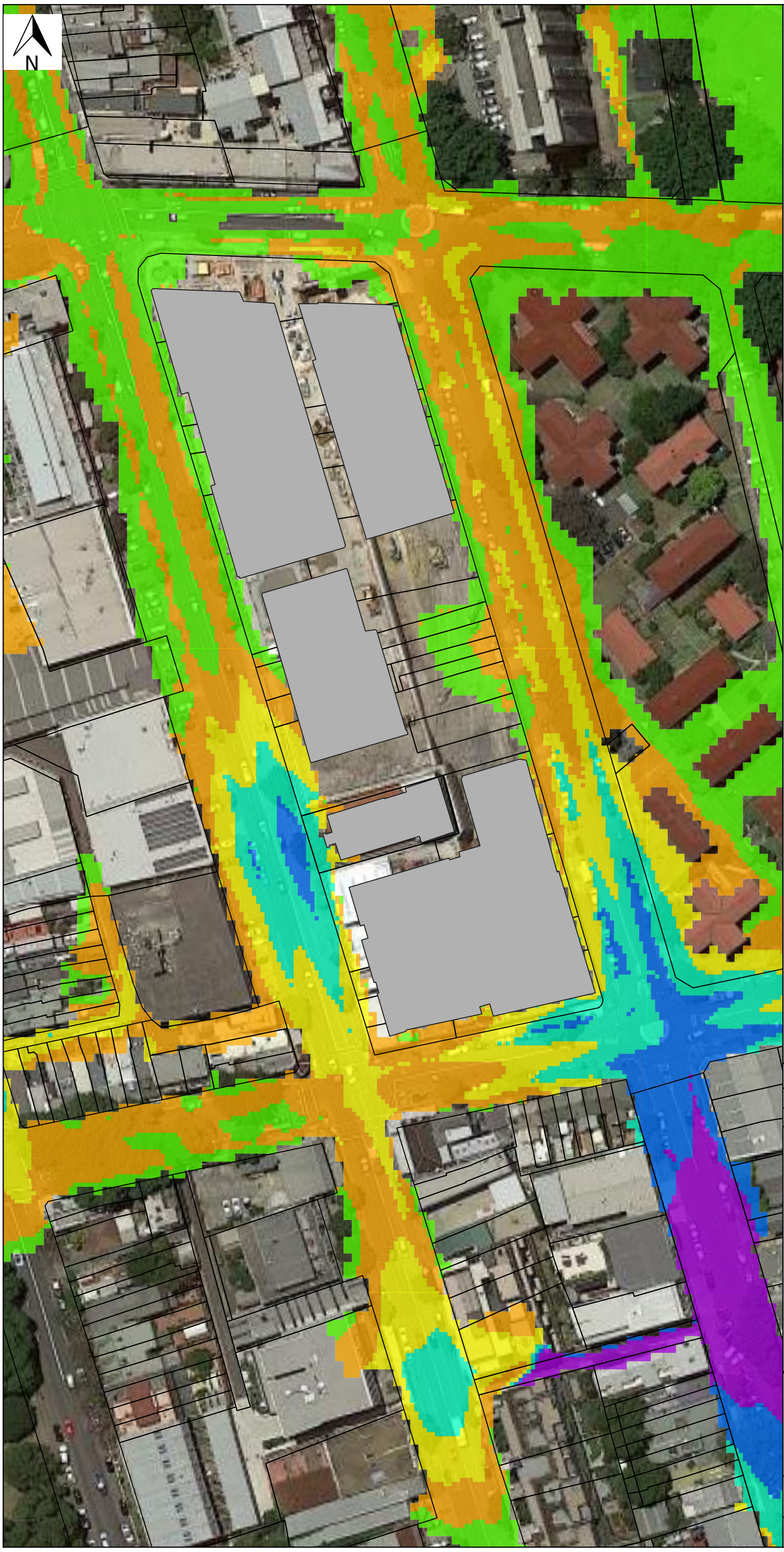
Scale: 1:1000

15/07/20

Project Number: PS119449

Created by: AUMZS01756 - 2020-07-15 13:36:23 - U:\ProjectsAU\PS119xxx\PS119449_Waterloo_OSD_work\4_WIP\Docs\Flood study\Flood Map\Flood Hazard.qgz

Appendix 9 – Water Depth – Proposed Scenario



KEY:

- Building

Water Depth (m)

- <= 0.10
- 0.10 - 0.30
- 0.30 - 0.50
- 0.50 - 0.7
- 0.7 - 1
- >1

0 15 30 45 m

FOR INFORMATION ONLY

Rev.	Date	ISSUE	Prepare	Approve
A	26/06/20	FIRST ISSUE	MZ	AV

WSP Australia Pty Limited
680 George Street
Sydney, NSW
2000 Australia
www.wsp.com

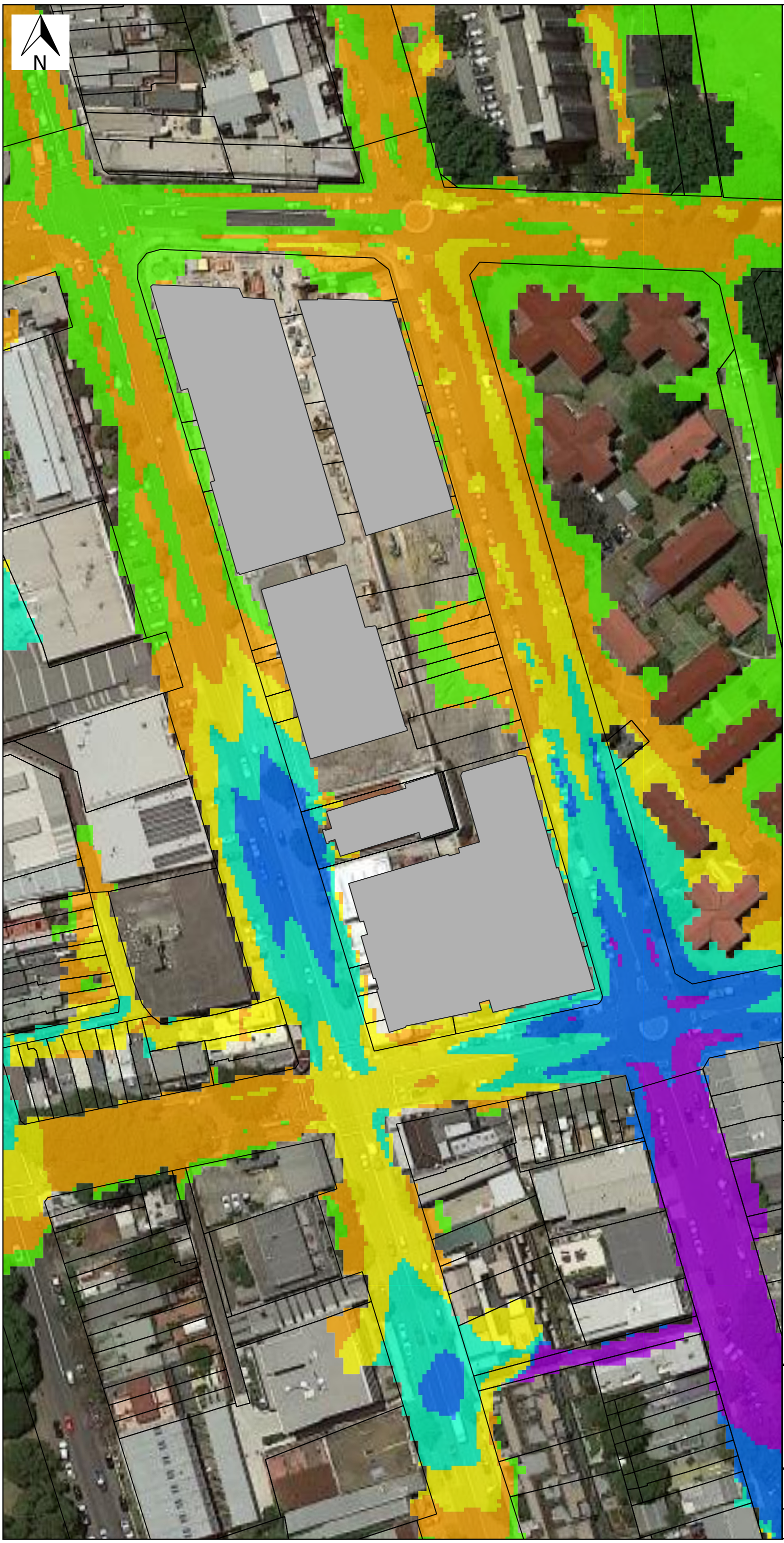
Waterloo - OSD

Proposed Scenario - 5%AEP
Water Depth

1:1000 | 17/07/20

Project Number: PS119449

Created by: AUMZ501756 - 2020-07-17 10:25:37 - U:\ProjectsAU\PS119xxx\PS119449_Waterloo_OSD_workv4_WIP\Docs\Flood study\Flood Map\Proposed flood maps.qgz



KEY:

Building

Water Depth (m)

- <= 0.10
- 0.10 - 0.30
- 0.30 - 0.50
- 0.50 - 0.7
- 0.7 - 1
- >1

0 15 30 45 m

FOR INFORMATION ONLY

Rev.	Date	ISSUE	Prepare	Approve
A	26/06/20	FIRST ISSUE	MZ	AV

WSP Australia Pty Limited
680 George Street
Sydney, NSW
2000 Australia
www.wsp.com

Waterloo - OSD

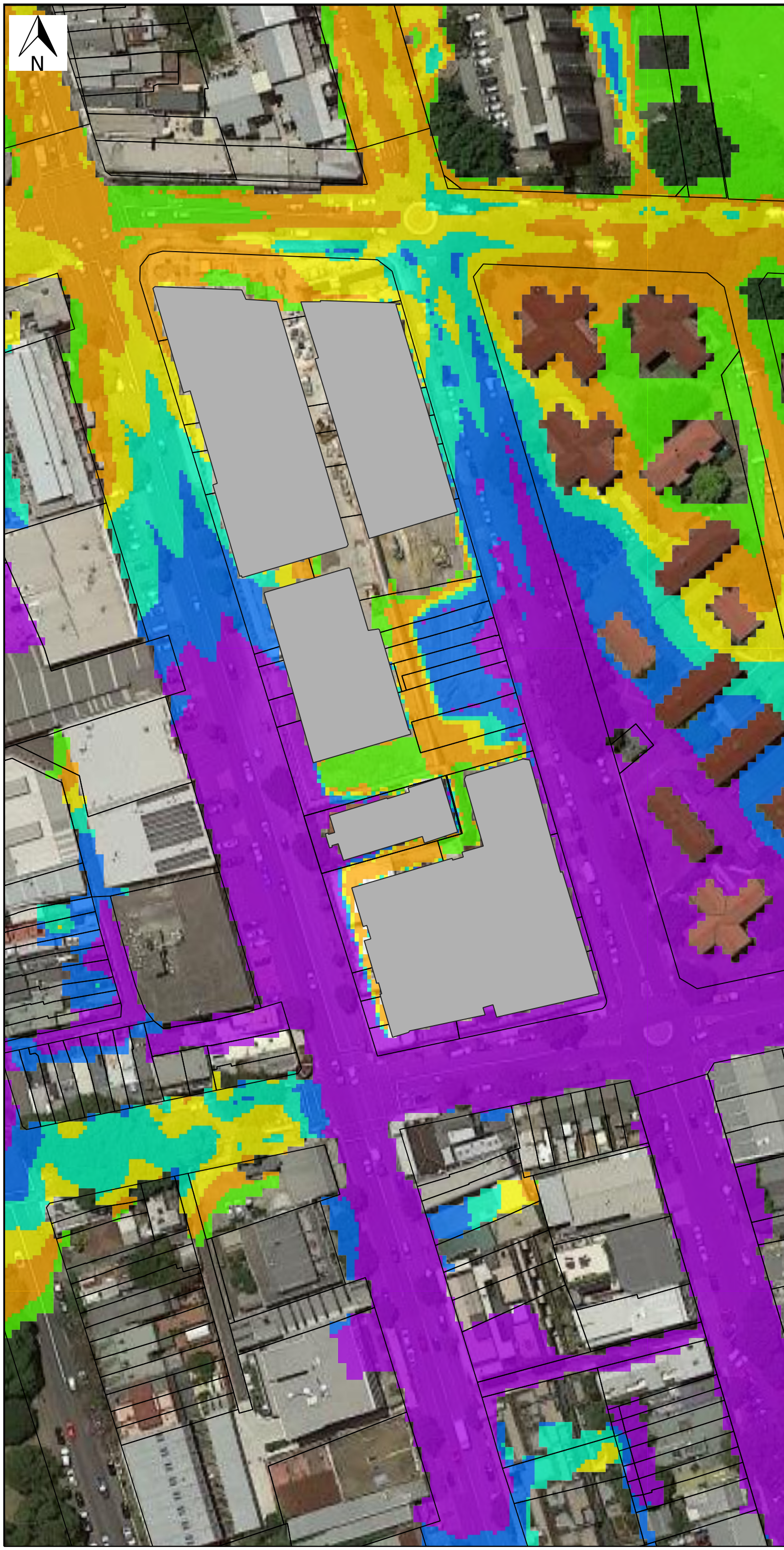
Proposed Scenario - 1% AEP

Water Depth

Scale: 1:1000 | 17/07/20

Project Number: PS119449

Created by: AUMZ501756 - 2020-07-17 10:25:22 - U:\ProjectsAU\PS119xxx\PS119449_Waterloo_OSD_work\4_WIP\Docs\Flood study\Flood Map\Proposed flood maps.qgz



KEY:

- Building

Water Depth (m)

- <= 0.10
- 0.10 - 0.30
- 0.30 - 0.50
- 0.50 - 0.7
- 0.7 - 1
- >1

0 15 30 45 m

FOR INFORMATION ONLY

Rev.	Date	ISSUE	Prepare	Approve
A	26/06/20	FIRST ISSUE	MZ	AV

WSP Australia Pty Limited
680 George Street
Sydney, NSW
2000 Australia
www.wsp.com

Waterloo - OSD

Proposed Scenario - PMF

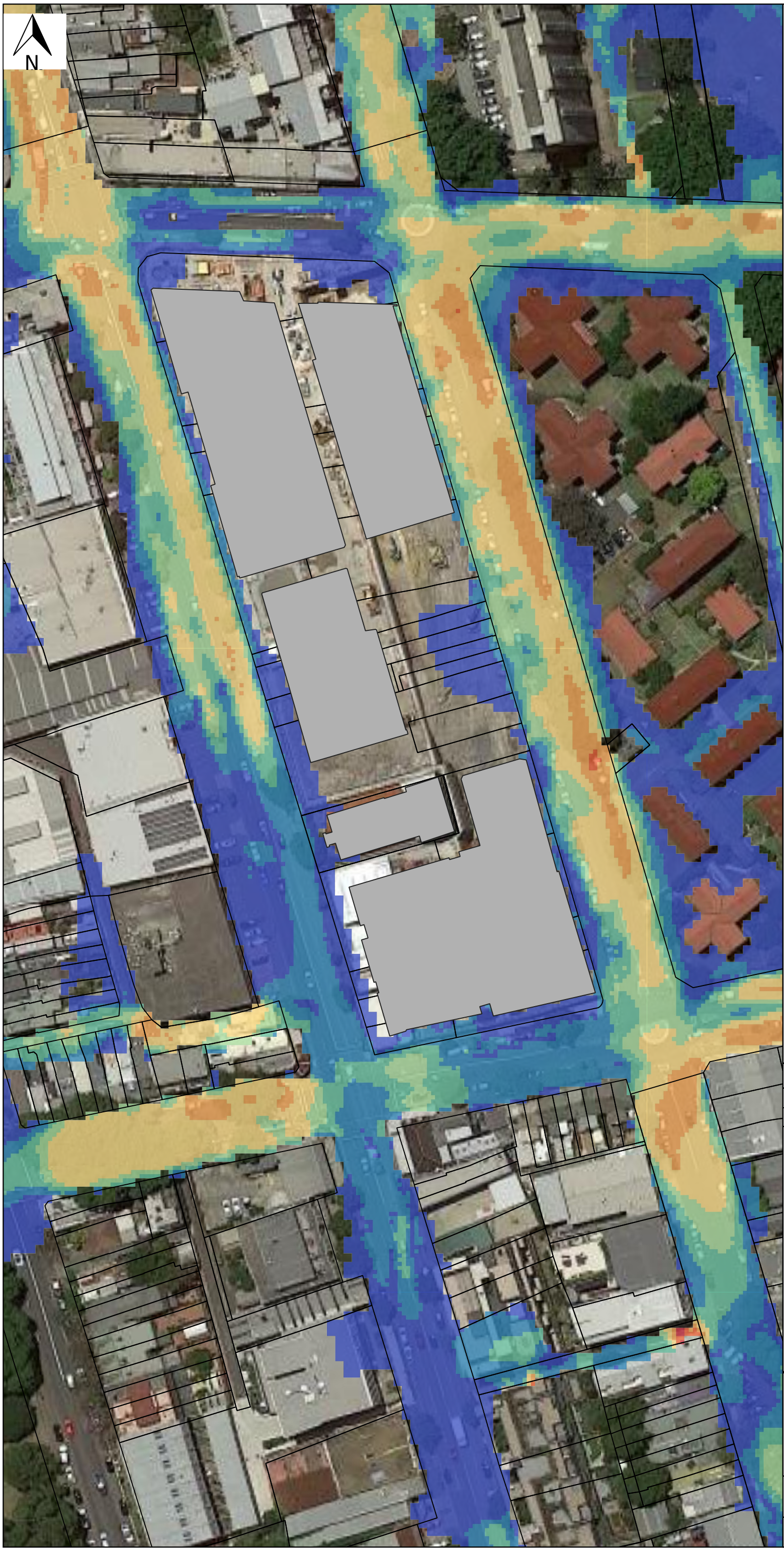
Water Depth

Scale: 1:1000 | 17/07/20

Project Number: PS119449

Created by: AUMZS01756 - 2020-07-17 10:25:29 - U:\ProjectsAU\PS119xxx\PS119449_Waterloo_OSD_work\4_WIP\Docs\Flood study\Flood Map\Proposed flood maps.qgz

Appendix 10 – Water Velocity – Proposed Scenario



KEY:

- Building

Water Velocity (m/s)

- <= 0.25
- 0.25 - 0.5
- 0.5 - 0.75
- 0.75 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- >3

0 15 30 45 m

FOR INFORMATION ONLY

Rev.	Date	ISSUE	Prepare	Approve
A	26/06/20	FIRST ISSUE	MZ	AV

WSP Australia Pty Limited
680 George Street
Sydney, NSW
2000 Australia
www.wsp.com

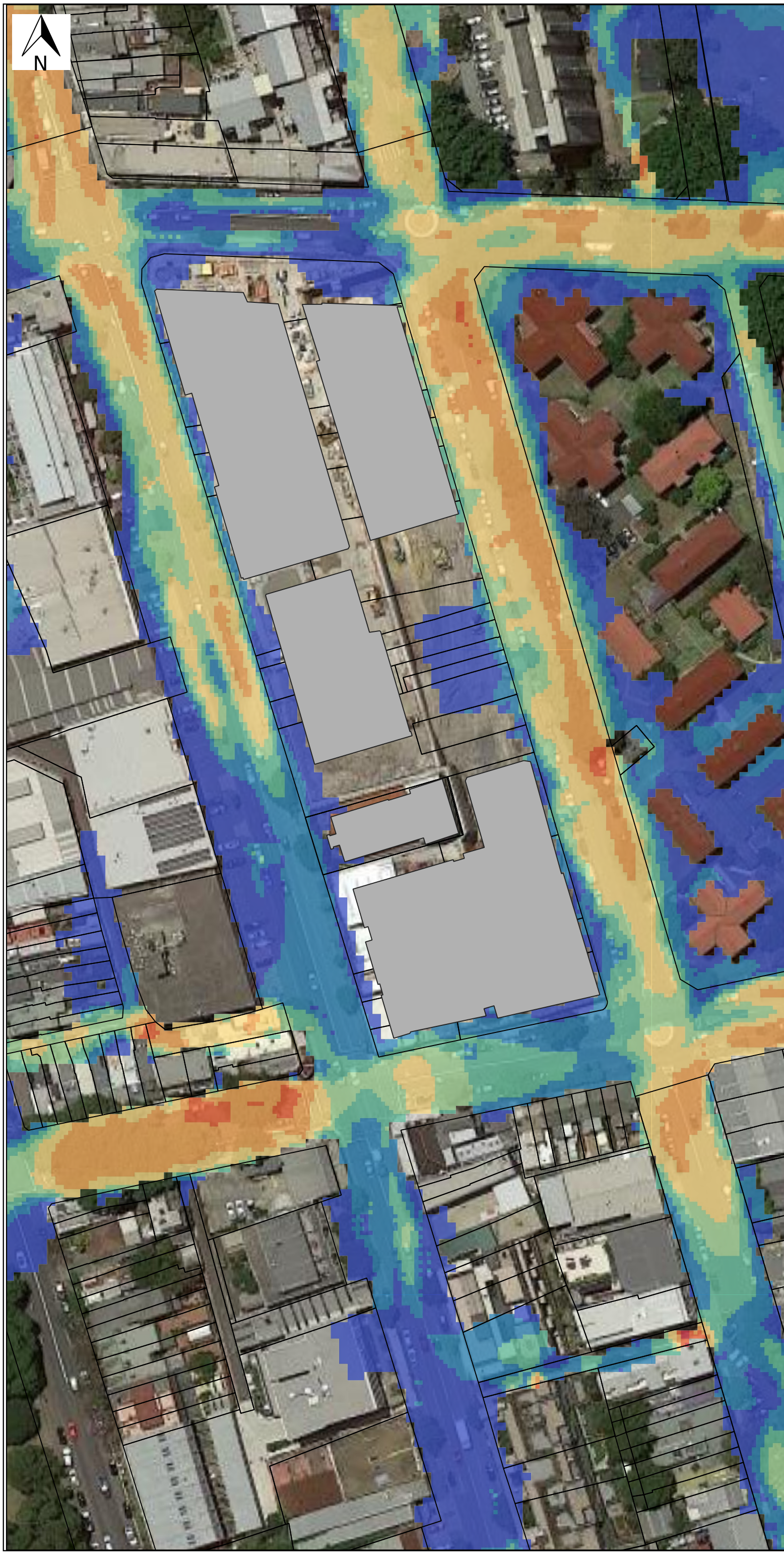
Waterloo - OSD

Proposed Scenario - 5%AEP
Water Velocity

1:1000 | 17/07/20

Project Number: PS119449

Created by: AUMZ501756 - 2020-07-17 10:25:44 - U:\ProjectsAU\PS119xxx\PS119449_Waterloo_OSD_workv4_WIP\Docs\Flood study\Flood Map\Proposed flood maps.qgz



KEY:

Building

Water Velocity (m/s)

- <= 0.25
- 0.25 - 0.5
- 0.5 - 0.75
- 0.75 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- >3

0 15 30 45 m

FOR INFORMATION ONLY

Rev.	Date	ISSUE	Prepare	Approve
A	26/06/20	FIRST ISSUE	MZ	AV

WSP Australia Pty Limited
680 George Street
Sydney, NSW
2000 Australia
www.wsp.com

Waterloo - OSD

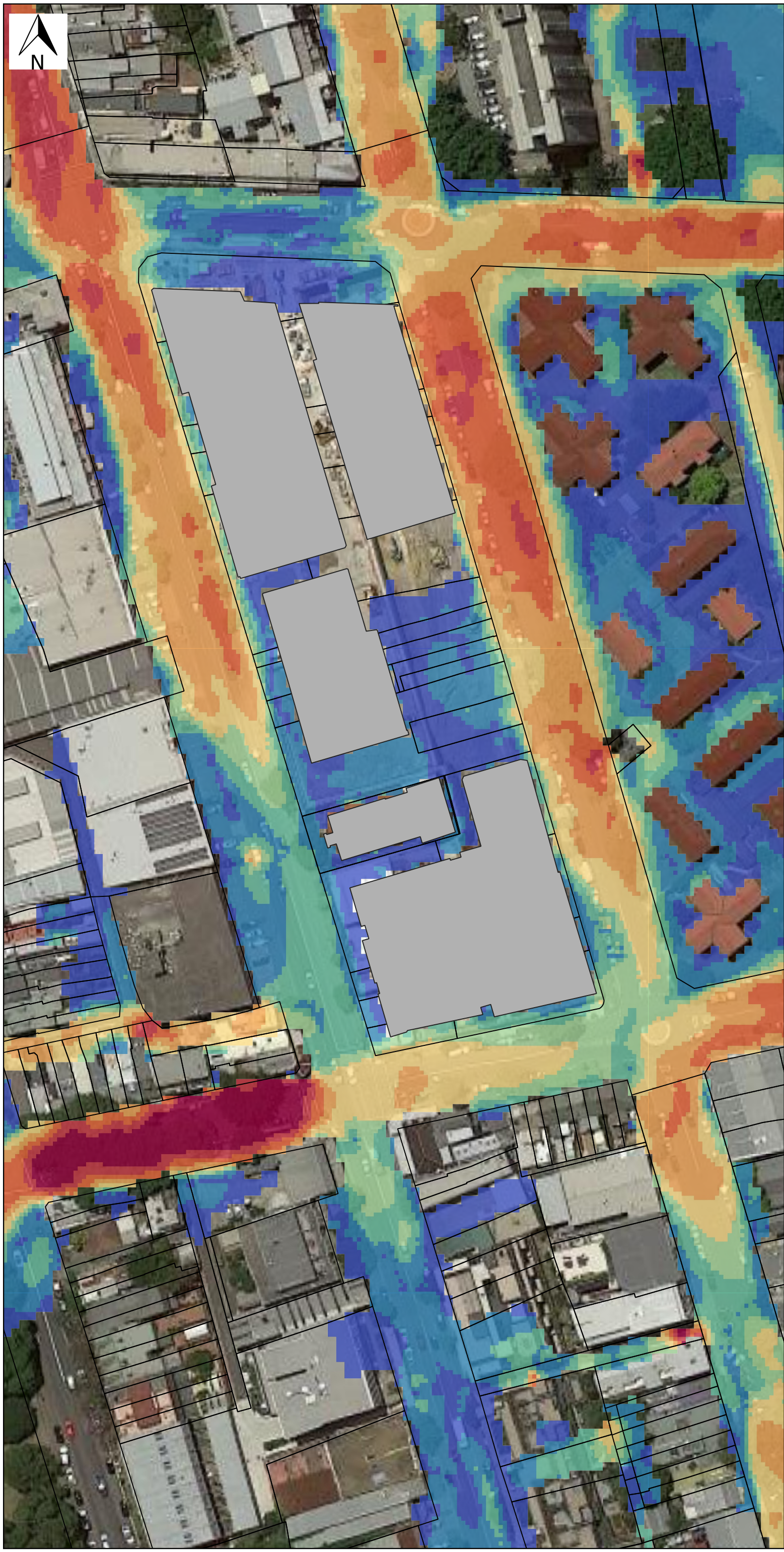
Proposed Scenario - 1%AEP

Water Velocity

Scale: 1:1000 | 17/07/20

Project Number: PS119449

Created by: AUMZ501756 - 2020-07-17 10:25:26 - U:\Projects\AU\PS119xxx\PS119449_Waterloo_OSD_work\4_WIP\Docs\Flood study\Flood Map\Proposed flood maps.qgz



KEY:

Building

Water Velocity (m/s)

- <= 0.25
- 0.25 - 0.5
- 0.5 - 0.75
- 0.75 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- >3

0 15 30 45 m

FOR INFORMATION ONLY

Rev.	Date	ISSUE	Prepare	Approve
A	26/06/20	FIRST ISSUE	MZ	AV

WSP Australia Pty Limited
680 George Street
Sydney, NSW
2000 Australia
www.wsp.com

Waterloo - OSD

Proposed Scenario - PMF

Water Velocity

1:1000 | 17/07/20

Project Number: PS119449

Created by: AUMZ501756 - 2020-07-17 10:25:37 - U:\ProjectsAU\PS119xxx\PS119449_Waterloo_OSD_work\4_WIP\Docs\Flood study\Flood Map\Proposed flood maps.qgz

Appendix 11 – Flood Hazard – Proposed Scenario

KEY:

Building

Flood Hazard

Low Hazard

Transitional Hazard

High Hazard

0 15 30 45 m

FOR INFORMATION ONLY

Rev.	Date	ISSUE	Prepare	Approve
A	26/06/20	FIRST ISSUE	MZ	AV

WSP Australia Pty Limited
680 George Street
Sydney, NSW
2000 Australia
www.wsp.com

Waterloo - OSD

Proposed - Flood Hazard

20 year ARI

Scale: 1:1

20/07/20

Project Number: PS119449

Created by: AUMZ501756 - 2020-07-20 14:35:48 - U:\ProjectsAU\PS119xxx\PS119449_Waterloo_OSD_work\4_WIP\Docs\Flood study\Flood Map\Flood Hazard.qgz

KEY:

Building

Flood Hazard

Low Hazard

Transitional Hazard

High Hazard

0 15 30 45 m

FOR INFORMATION ONLY

Rev.	Date	ISSUE	Prepare	Approve
A	26/06/20	FIRST ISSUE	MZ	AV

WSP Australia Pty Limited
680 George Street
Sydney, NSW
2000 Australia
www.wsp.com

Waterloo - OSD

Proposed - Flood Hazard

100 year ARI

Scale: 1:1000 | 20/07/20

Project Number: PS119449

Created by: AUMZ501756 - 2020-07-20 14:35:59 - U:\ProjectsAU\PS119xxx\PS119449_Waterloo_OSD_work\4_WIP\Docs\Flood study\Flood Map\Flood Hazard.qgz

KEY:

Building

Flood Hazard

Low Hazard

Transitional Hazard

High Hazard

0 15 30 45 m

FOR INFORMATION ONLY

Rev.	Date	ISSUE	Prepare	Approve
A	26/06/20	FIRST ISSUE	MZ	AV

WSP Australia Pty Limited
680 George Street
Sydney, NSW
2000 Australia
www.wsp.com

Waterloo - OSD

Proposed - Flood Hazard

PMF

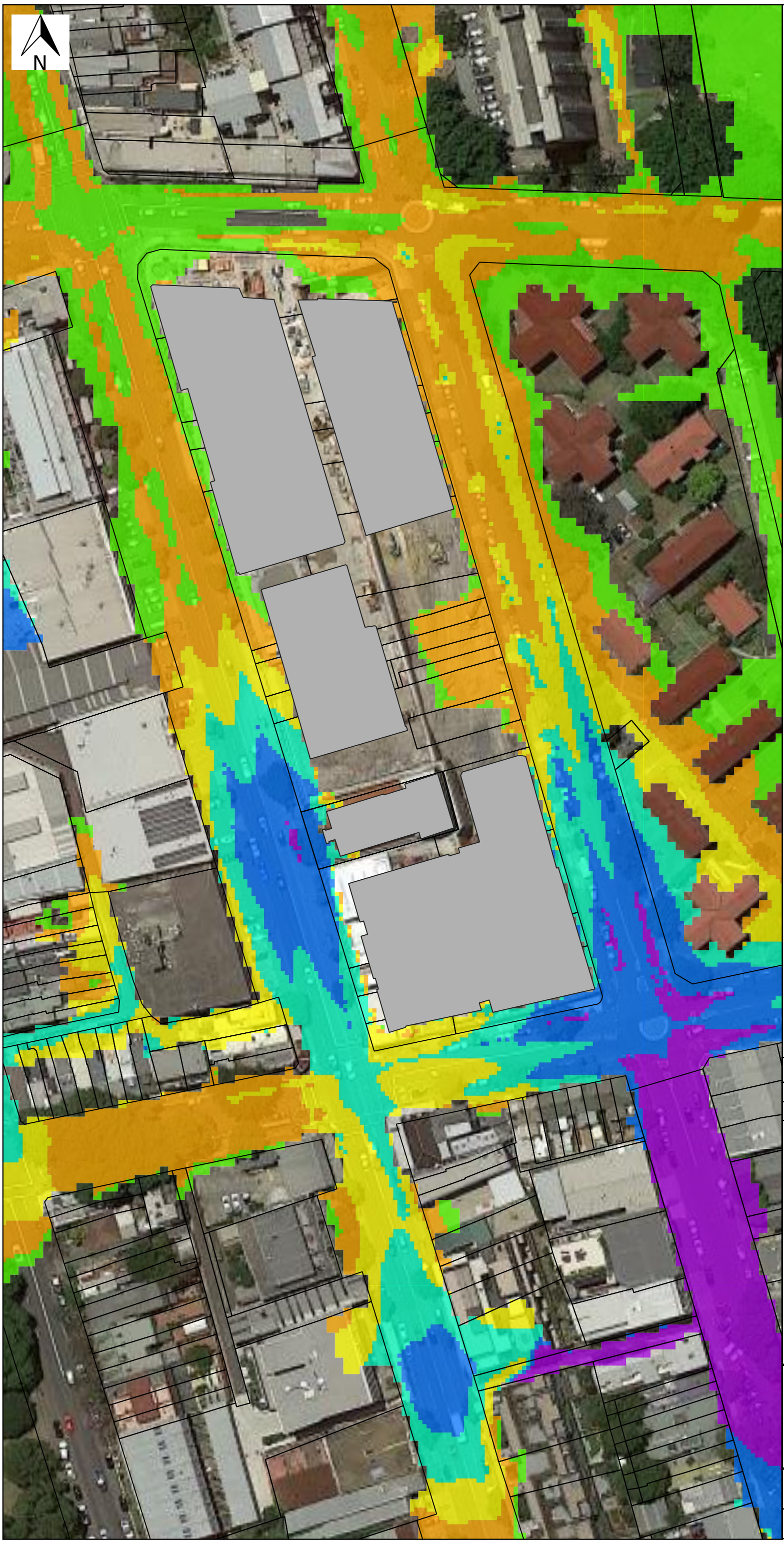
Scale: 1:1000

20/07/20

Project Number: PS119449

Created by: AUMZ501756 - 2020-07-20 14:36:11 - U:\ProjectsAU\PS119xxx\PS119449_Waterloo_OSD_work\4_WIP\Docs\Flood study\Flood Map\Flood Hazard.qgz

Appendix 12 – Climate Change



KEY:

Building

Water Depth (m)

- <= 0.10
- 0.10 - 0.30
- 0.30 - 0.50
- 0.50 - 0.7
- 0.7 - 1
- >1

0 15 30 45 m

FOR INFORMATION ONLY

Rev.	Date	ISSUE	Prepare	Approve
A	26/06/20	FIRST ISSUE	MZ	AV

WSP Australia Pty Limited
680 George Street
Sydney, NSW
2000 Australia
www.wsp.com

Waterloo - OSD

Proposed Scenario - 1% AEP + 10%CC

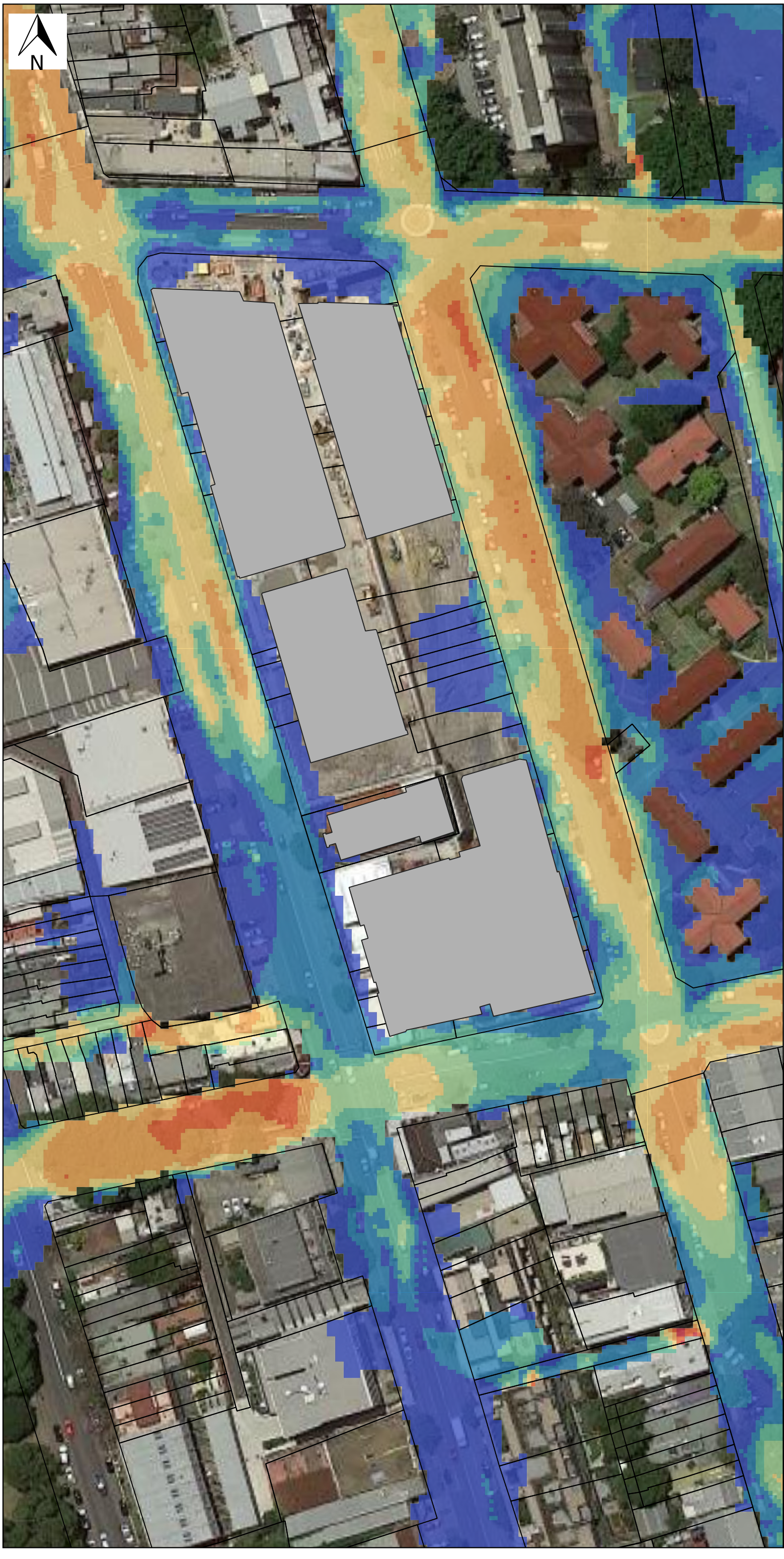
Water Depth

Scale: 1:1000

17/07/20

Project Number: PS119449

Created by: AUMZ501756 - 2020-07-17 14:08:18 - U:\ProjectsAU\PS119xxx\PS119449_Waterloo_OSD_work\4_WIP\Docs\Flood study\Flood Map\Proposed flood maps CC.qgz



KEY:

- Building

Water Velocity (m/s)

- <= 0.25
- 0.25 - 0.5
- 0.5 - 0.75
- 0.75 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- >3

0 15 30 45 m

FOR INFORMATION ONLY

Rev.	Date	ISSUE	Prepare	Approve
A	26/06/20	FIRST ISSUE	MZ	AV

WSP Australia Pty Limited
680 George Street
Sydney, NSW
2000 Australia
www.wsp.com

Waterloo - OSD

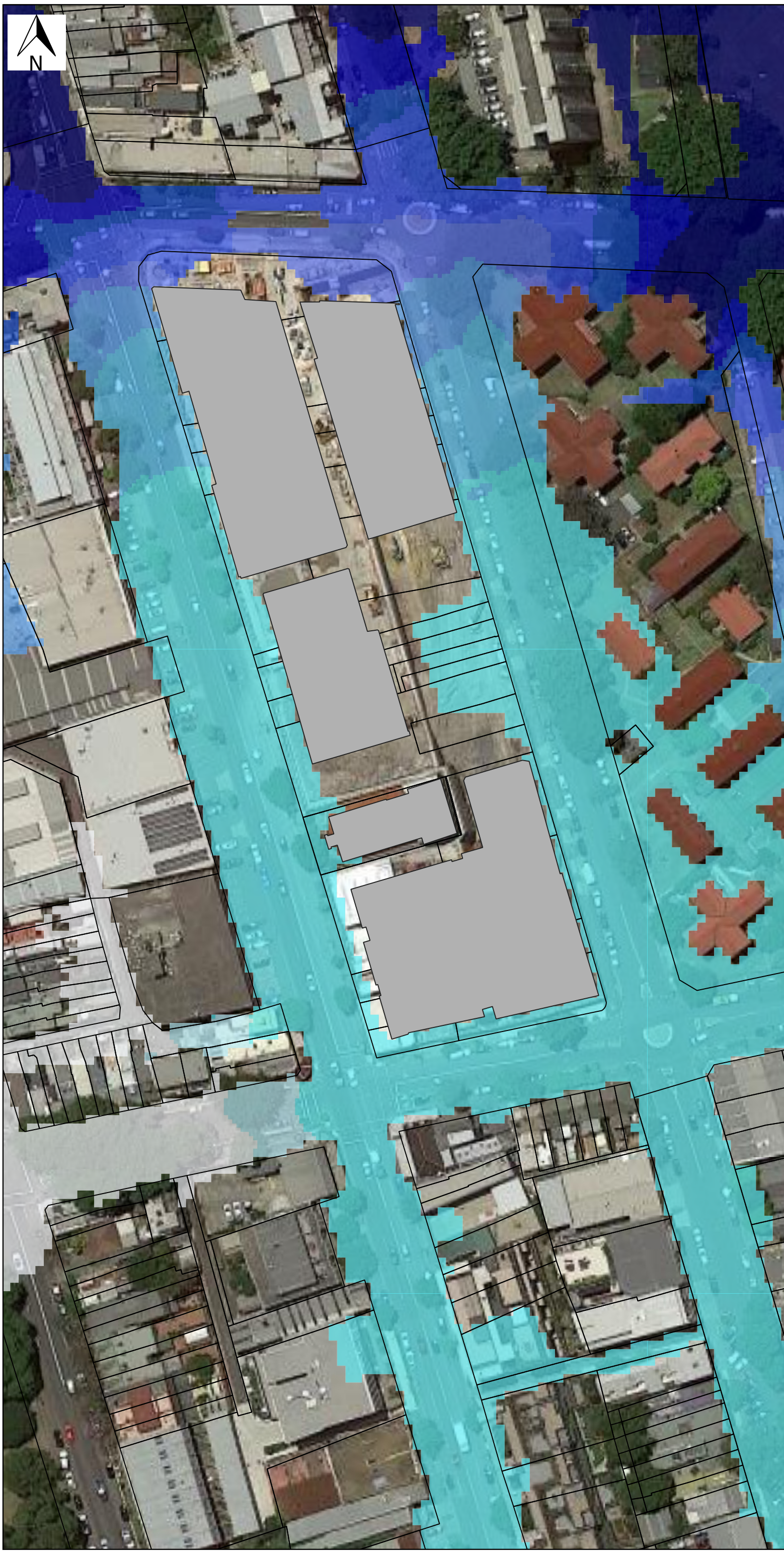
Proposed Scenario - 1%AEP + 10%CC

Water Velocity

Scale: 1:1000 | 17/07/20

Project Number: PS119449

Created by: AUMZ501756 - 2020-07-17 14:08:22 - U:\ProjectsAU\PS119xxx\PS119449_Waterloo_OSD_work\4_WIP\Docs\Flood study\Flood Map\Proposed flood maps CC.qgz



KEY:

Building

Water Level (m AHD)

- 15.2 - 15.5
- 15.5 - 16
- 16 - 16.25
- 16.25 - 16.50
- 16.50 - 16.6
- 16.6 - 16.8
- 16.8 - 16.9
- 16.9 - 17
- >17

0 15 30 45 m

FOR INFORMATION ONLY

Rev.	Date	ISSUE	Prepare	Approve
A	26/06/20	FIRST ISSUE	MZ	AV

WSP Australia Pty Limited
680 George Street
Sydney, NSW
2000 Australia
www.wsp.com

Waterloo - OSD

Proposed Scenario - 1%AEP+10%CC

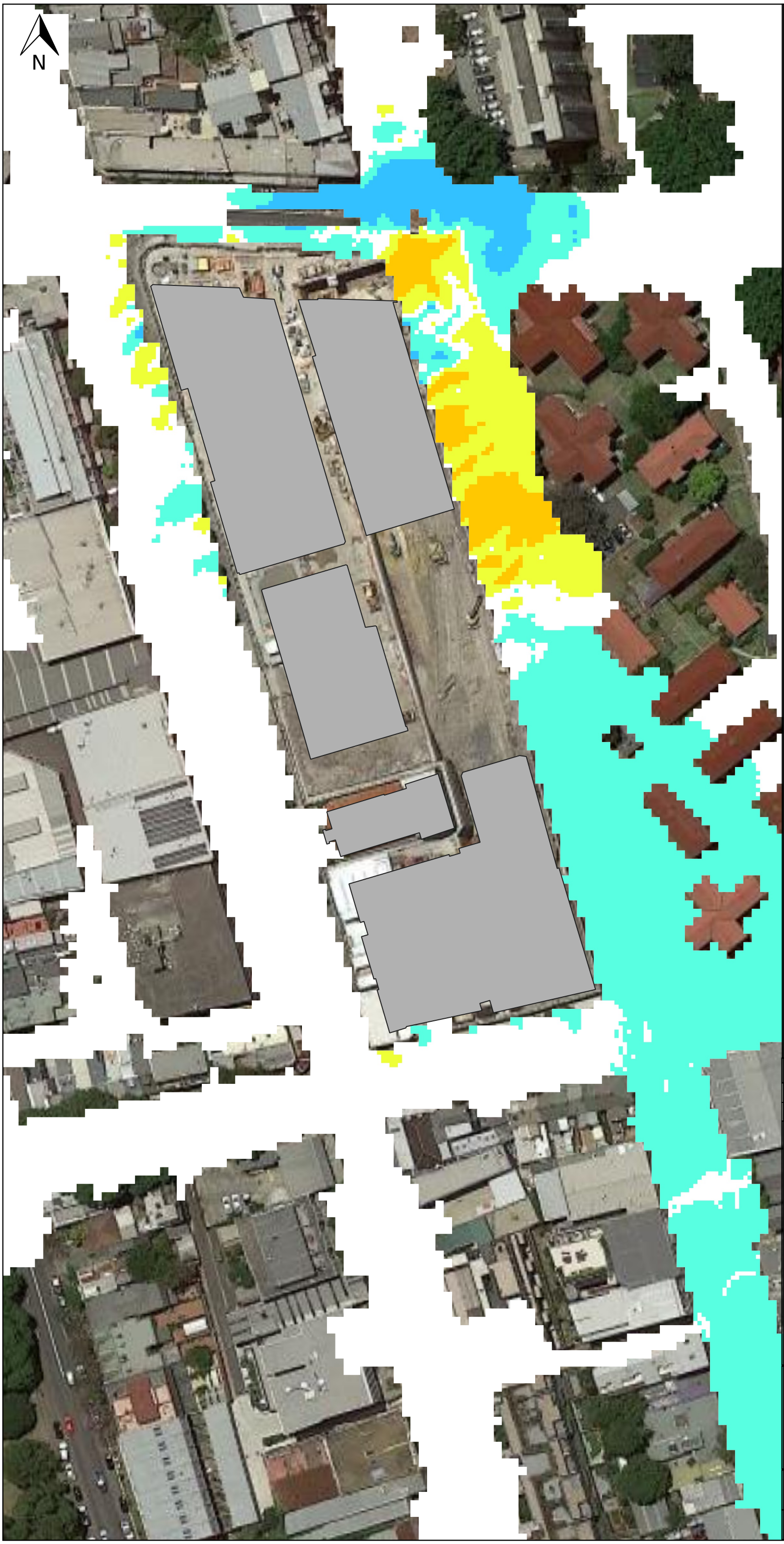
Water Level

Scale: 1:1000 | 17/07/20

Project Number: PS119449

Created by: AUMZ501756 - 2020-07-17 14:08:25 - U:\Projects\AU\PS119xxx\PS119449_Waterloo_OSD_work\4_WIP\Docs\Flood study\Flood Map\Proposed flood maps CC.qgz

Appendix 13 – Flood Impact



KEY:

Building

Afflux (m)

- <= -1
- -0.3 - -0.15
- -0.15 - -0.05
- -0.05 - -0.01
- -0.01 - 0.01
- 0.01 - 0.05
- 0.05 - 0.15
- 0.15 - 0.3
- > 0.3

0 15 30 45 m

FOR INFORMATION ONLY

Rev.	Date	ISSUE	Prepare	Approve
A	26/06/20	FIRST ISSUE	MZ	AV

WSP Australia Pty Limited
680 George Street
Sydney, NSW
2000 Australia
www.wsp.com

Waterloo - OSD

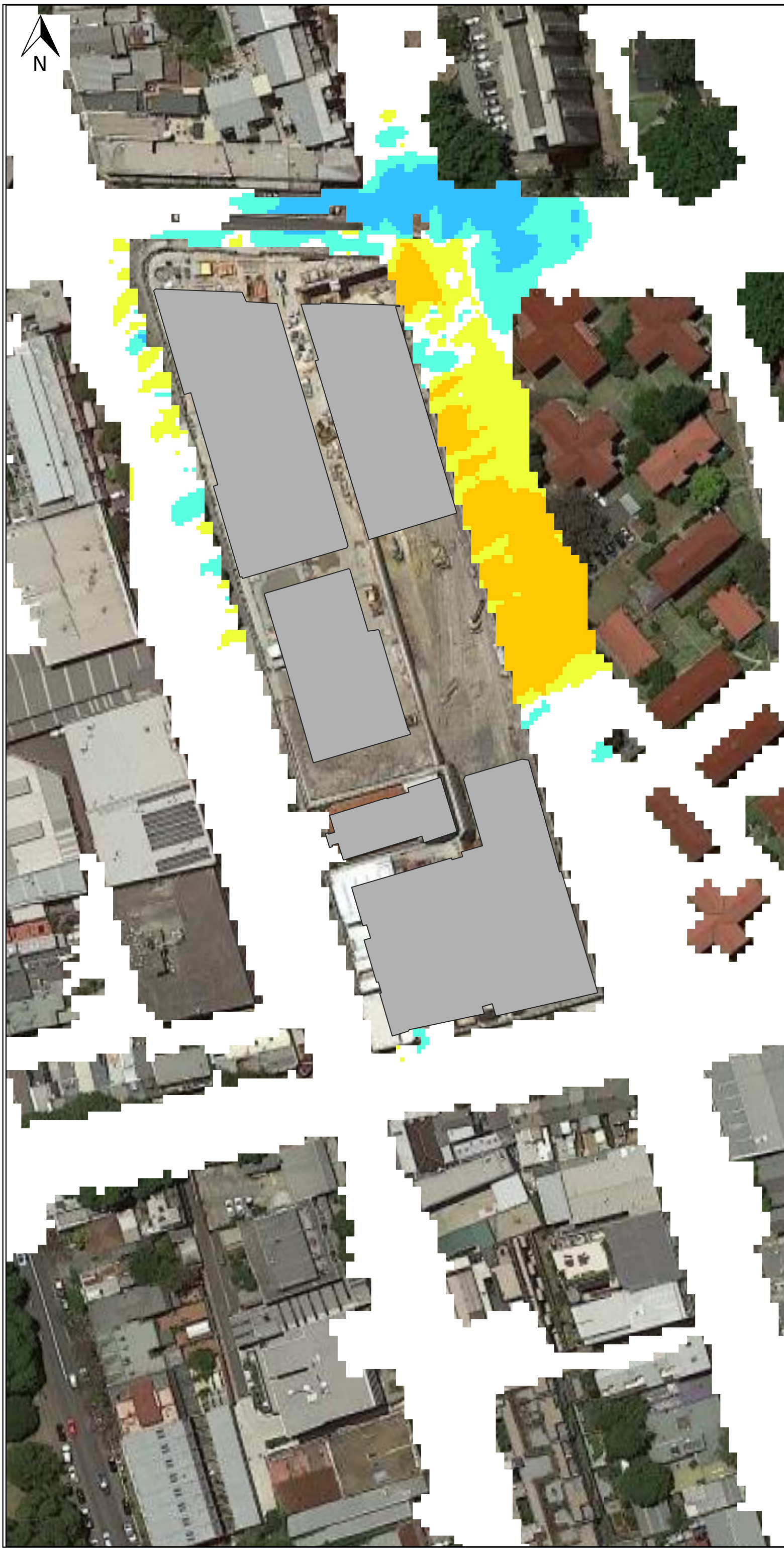
Proposed Development Flood Impact

100 year ARI - Afflux

Scale: 1:1000 | 14/07/20

Project Number: PS119449

Created by: AUMZS01756 - 2020-07-14 15:12:42 - U:\ProjectsAU\PS119xxx\PS119449_Waterloo_OSD_work\4_WIP\Docs\Flood study\Flood Map\Flood Impact.qgz



KEY:

Building

Afflux (m)

- <= -1
- -0.3 - -0.15
- -0.15 - -0.05
- -0.05 - -0.01
- -0.01 - 0.01
- 0.01 - 0.05
- 0.05 - 0.15
- 0.15 - 0.3
- > 0.3

0 15 30 45 m

FOR INFORMATION ONLY

Rev.	Date	ISSUE	Prepare	Approve
A	26/06/20	FIRST ISSUE	MZ	AV

WSP Australia Pty Limited
680 George Street
Sydney, NSW
2000 Australia
www.wsp.com

Waterloo - OSD

Proposed Development - Flood Impact

20 year ARI

Scale: 1:1000 | 14/07/20

Project Number: PS119449

Created by: AUMZ501756 - 2020-07-14 15:12:45 - U:\ProjectsAU\PS119xxx\PS119449_Waterloo_OSD_work\4_WIP\Docs\Flood study\Flood Map\Flood Impact.qgz

KEY:

Building

Afflux (m)

- <= -1
- -0.3 - -0.15
- -0.15 - -0.05
- -0.05 - -0.01
- -0.01 - 0.01
- 0.01 - 0.05
- 0.05 - 0.15
- 0.15 - 0.3
- > 0.3

0 15 30 45 m

FOR INFORMATION ONLY

Rev.	Date	ISSUE	Prepare	Approve
A	26/06/20	FIRST ISSUE	MZ	AV

WSP Australia Pty Limited
680 George Street
Sydney, NSW
2000 Australia
www.wsp.com

Waterloo - OSD

Proposed Scenario - Flood Impact

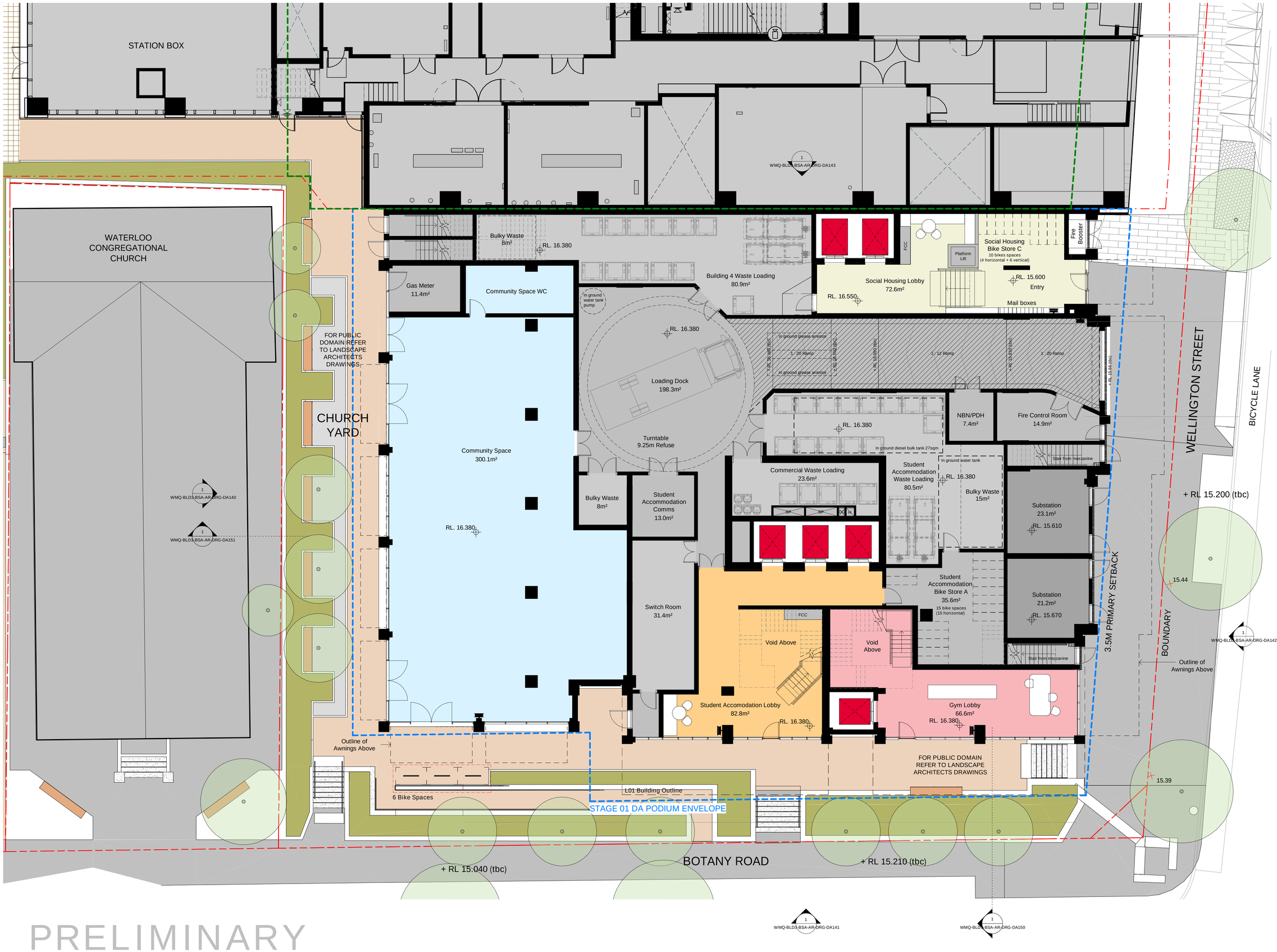
Afflux

Scale: 1:1000 | 14/07/20

Project Number: PS119449

Created by: AUMZ501756 - 2020-07-14 15:12:49 - U:\Projects\AU\PS119xxx\PS119449_Waterloo_OSD_work\4_WIP\Docs\Flood study\Flood Map\Flood Impact.qgz

Appendix 14 – Building Flood Levels



PRELIMINARY

Recent revision history

#	Status	Description	Date
A		COST PLAN B	30.03.20
B		ISSUE FOR INFORMATION	17.04.20
C		ISSUE FOR INFORMATION	24.04.20
D		ISSUE FOR INFORMATION	15.05.20
E		ISSUE FOR INFORMATION	01.06.20
F		DRAFT SSDA ISSUE	15.06.20
G		SSDA ISSUE - FOR LANDOWNER'S CONSENT	27.07.20

Notes

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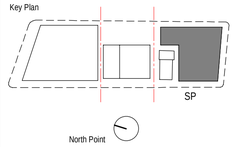
Do not scale drawings.

Key Plan



Client

Waterloo Integrated Station Development
A Joint Venture Project
JOHN HOLLAND
mirvac

NSW GOVERNMENT
sydney METRO

Consultant

BATESSMART

Project

WATERLOO METRO QUARTER DEVELOPMENT

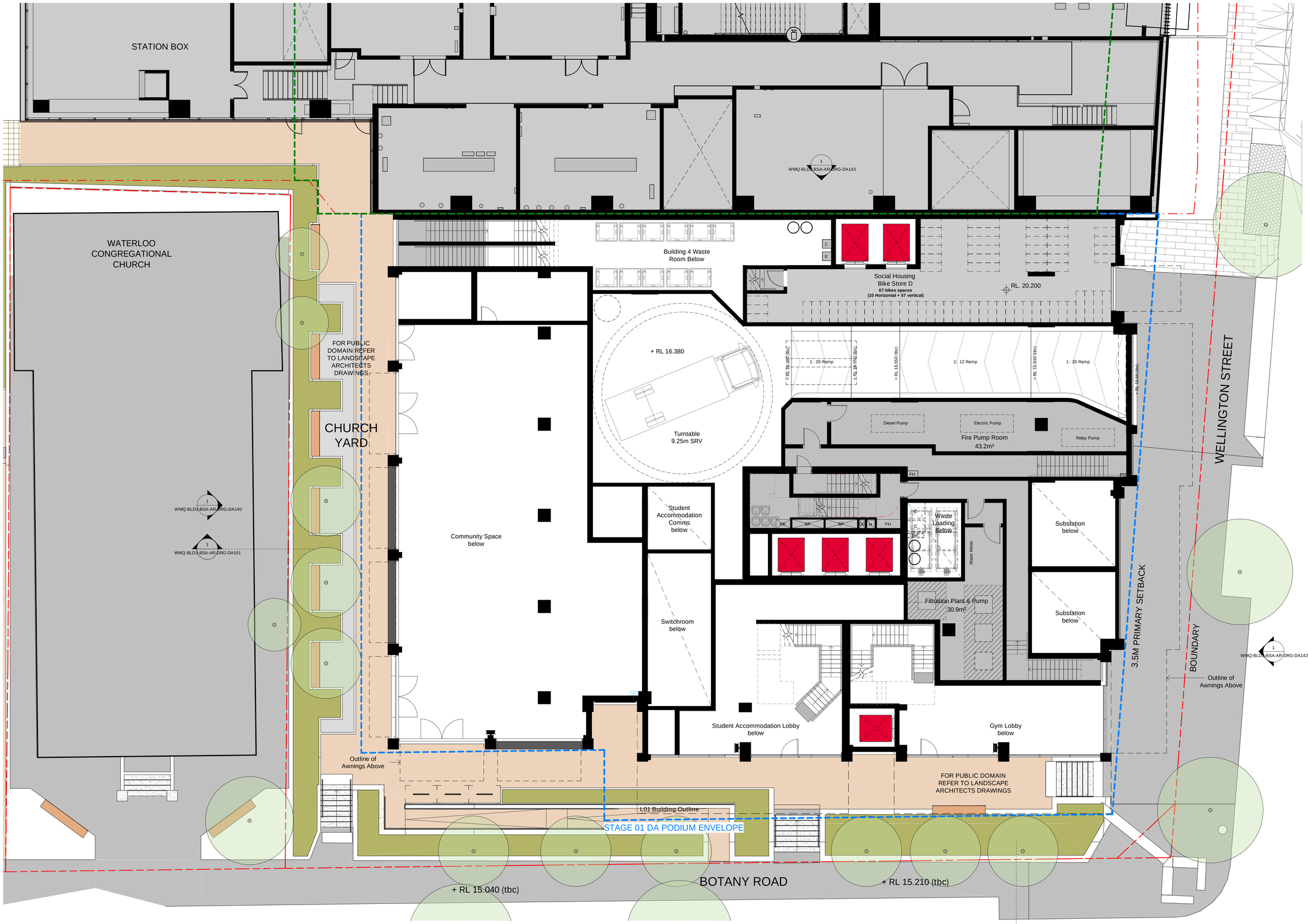
Project number		Size check	
S12398		25mm	
Checked	Approved	Sheet size	Scale
BS	Approver	A1	1 : 100

Sheet title

General Arrangement Plan
Ground Floor Plan

Status

Sheet number	Revision
WMQ-BLD3-BSA-AR-DRG-DA100	G



PRELIMINARY

Recent revision history

#	Status	Description	Date
A		COST PLAN B	30.03.20
B		ISSUE FOR INFORMATION	24.04.20
C		ISSUE FOR INFORMATION	15.05.20
D		ISSUE FOR INFORMATION	01.06.20
E		DRAFT SSDA ISSUE	15.06.20
F		SSDA ISSUE - FOR LANDOWNER'S CONSENT	27.07.20

Notes

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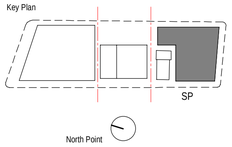
Key Plan



Client

Waterloo Integrated Station Development
A Joint Venture Project
JOHN HOLLAND
mirvac

NSW GOVERNMENT | sydney METRO

Consultant

BATESSMART

Project

WATERLOO METRO QUARTER DEVELOPMENT

Project number	Size check		
S12398	25mm		
Checked	Approved	Sheet size	Scale
BS	Approver	A1	1 : 100

Sheet title

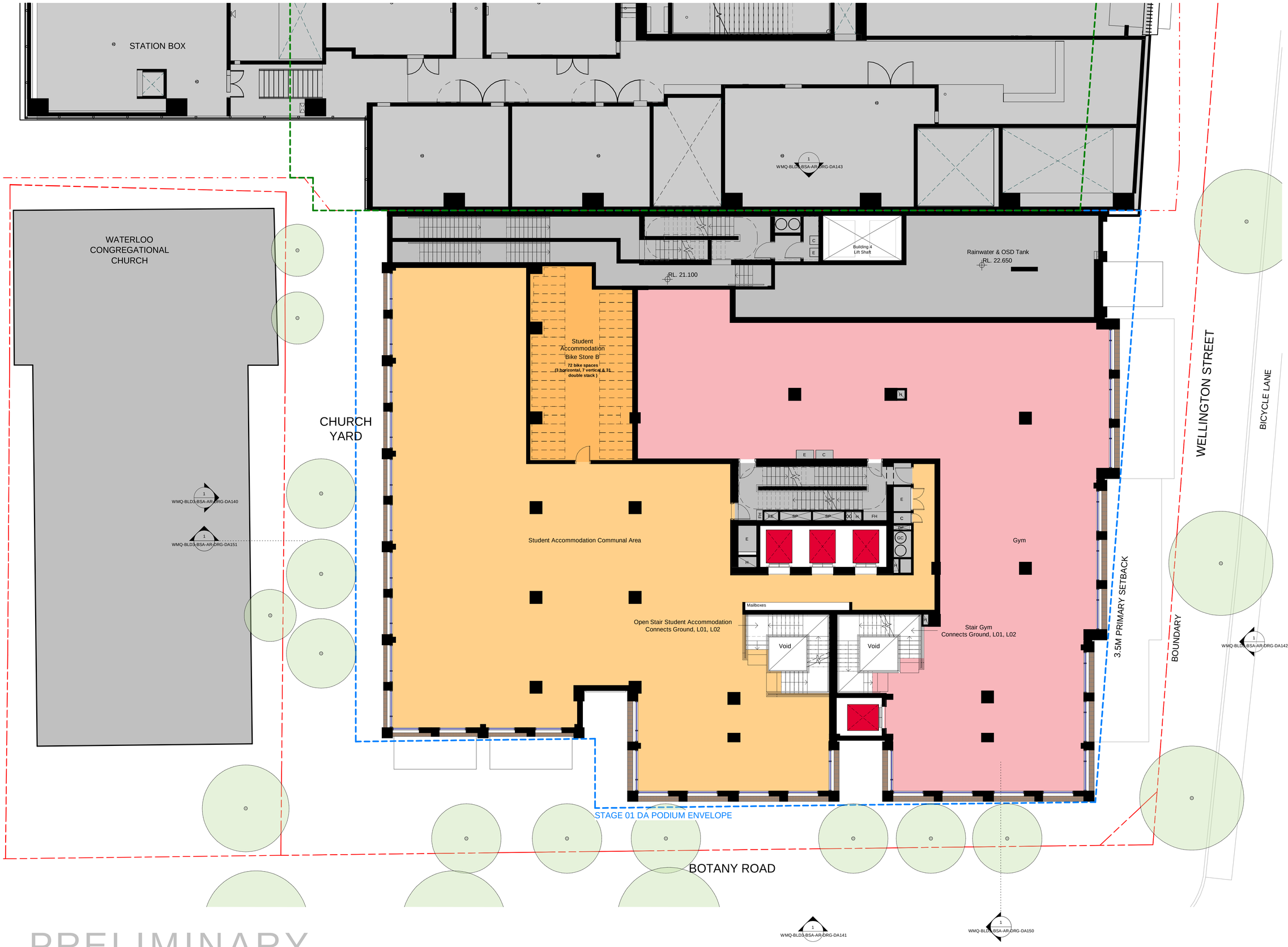
General Arrangement Plan
Mezzanine Plan

Status

Sheet number — Revision

WMQ-BLD3-BSA-AR-DRG-DA100M — F

Date generated 27/07/2020 6:13:10 PM BIM 360://Sydney Metro - Waterloo Station/WMQ-BLD3-BSA-AR-MDL-0101-RVT-R20.rvt



PRELIMINARY

Recent revision history

#	Status	Description	Date
A		COST PLAN B	30.03.20
B		ISSUE FOR INFORMATION	24.04.20
C		ISSUE FOR INFORMATION	15.05.20
D		ISSUE FOR INFORMATION	01.06.20
E		DRAFT SSDA ISSUE	15.06.20
F		SSDA ISSUE - FOR LANDOWNER'S CONSENT	27.07.20

Notes

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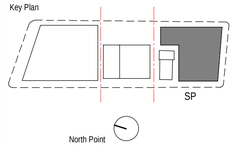
Contractor must verify all dimensions on site before commencing work or preparing shop drawings.

Do not scale drawings.

Key Plan



Client

Waterloo Integrated Station Development
A Joint Venture Project
JOHN HOLLAND
mirvac

NSW GOVERNMENT
sydney METRO

Consultant

BATESSMART

Project

WATERLOO METRO QUARTER DEVELOPMENT

Project number	Size check
S12398	25mm

Checked	Approved	Sheet size	Scale
BS	Approver	A1	1 : 100

Sheet title

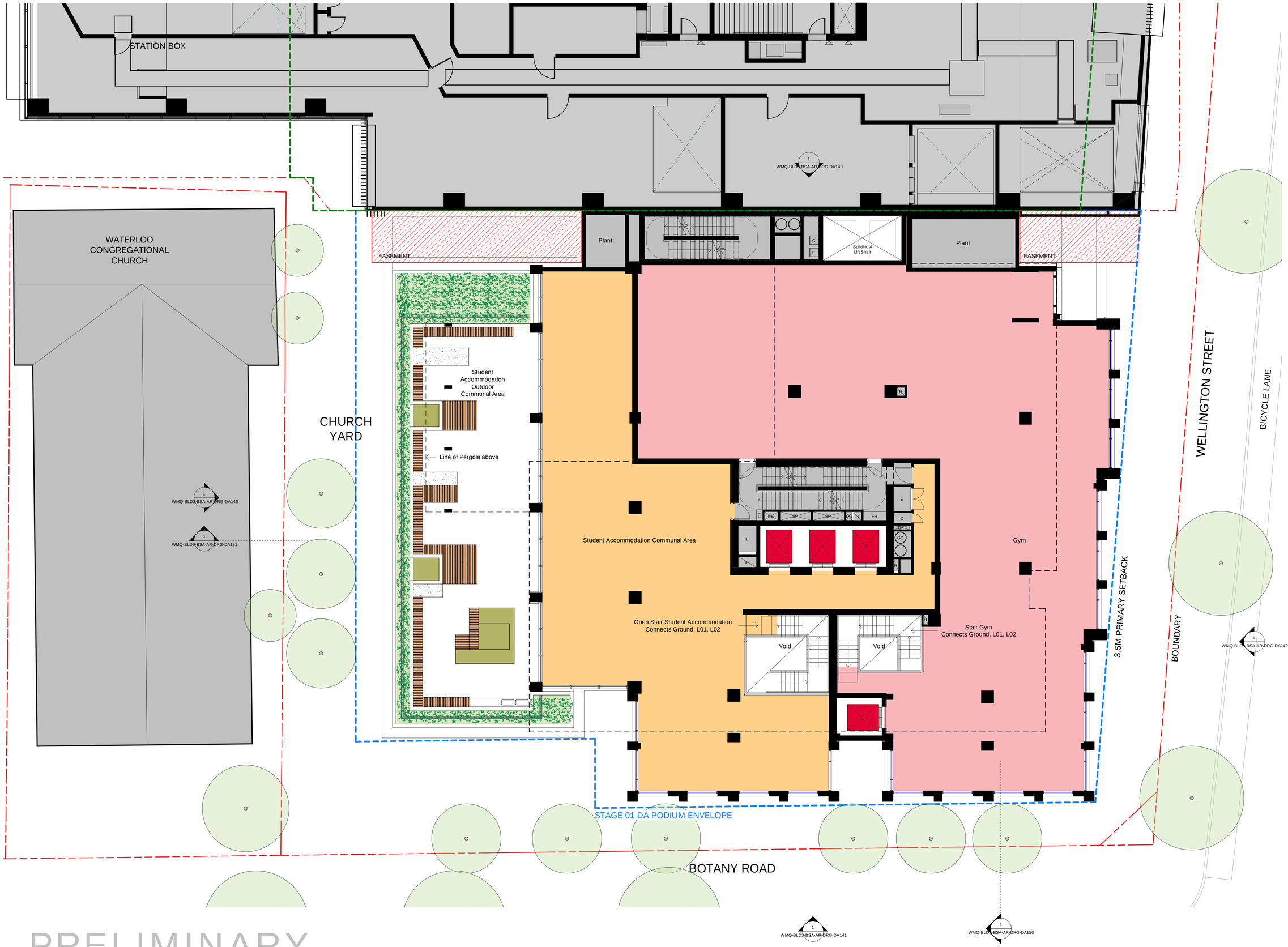
General Arrangement Plan
Level 1 Plan

Status

Sheet number: WMQ-BLD3-BSA-AR-DRG-DA101

Revision: F

Date generated 27/07/2020 6:07:02 PM BIM 360://Sydney Metro - Waterloo Station/WMQ-BLD3-BSA-AR-MDL-0101-RVT-R20.rvt



PRELIMINARY

Recent revision history

#	Status	Description	Date
A		COST PLAN B	30.03.20
B		ISSUE FOR INFORMATION	24.04.20
C		ISSUE FOR INFORMATION	15.05.20
D		ISSUE FOR INFORMATION	01.06.20
E		DRAFT SSDA ISSUE	15.06.20
F		SSDA ISSUE - FOR LANDOWNER'S CONSENT	27.07.20

Notes

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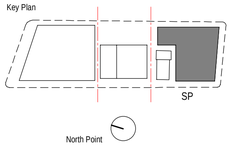
Contractor must verify all dimensions on site before commencing work or preparing shop drawings.

Do not scale drawings.

Key Plan



Client

Waterloo Integrated Station Development
A Joint Venture Project
JOHN HOLLAND
mirvac

NSW GOVERNMENT
sydney METRO

Consultant

BATESSMART

Project

WATERLOO METRO QUARTER DEVELOPMENT

Project number	Size check		
S12398	25mm		
Checked	Approved	Sheet size	Scale
BS	Approver	A1	1 : 100

Sheet title

General Arrangement Plan
Level 2 Plan

Status

Sheet number: WMQ-BLD3-BSA-AR-DRG-DA102

Revision: F

Date generated 27/07/2020 6:07:10 PM BIM 360://Sydney Metro - Waterloo Station/WMQ-BLD3-BSA-AR-MDL-0101-RVT-R20.rvt

PRELIMINARY

Recent revision history

#	Status	Description	Date
A	MV/JHG	COST PLAN B	30.03.20
B	MV	ISSUE FOR INFORMATION	17.04.20
C	MV	ISSUE FOR INFORMATION	24.04.20
D	MV/JHG	ISSUE FOR INFORMATION	15.05.20
E	MV/JHG	ISSUE FOR INFORMATION	01.06.20
F	MV/JHG	DRAFT SSDA ISSUE	15.06.20

Notes

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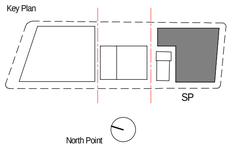
Do not scale drawings.

Key Plan



Client

Waterloo Integrated Station Development
A joint venture Project
JOHN HOLLAND
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NSW GOVERNMENT
sydney METRO

Consultant

BATESSMART

Project

WATERLOO METRO QUARTER DEVELOPMENT

Project number		Size check	
S12398		25mm	
Checked	Approved	Sheet size	Scale
BS	Approver	A1	1 : 100

Sheet title

General Arrangement Plan
Ground Floor Plan

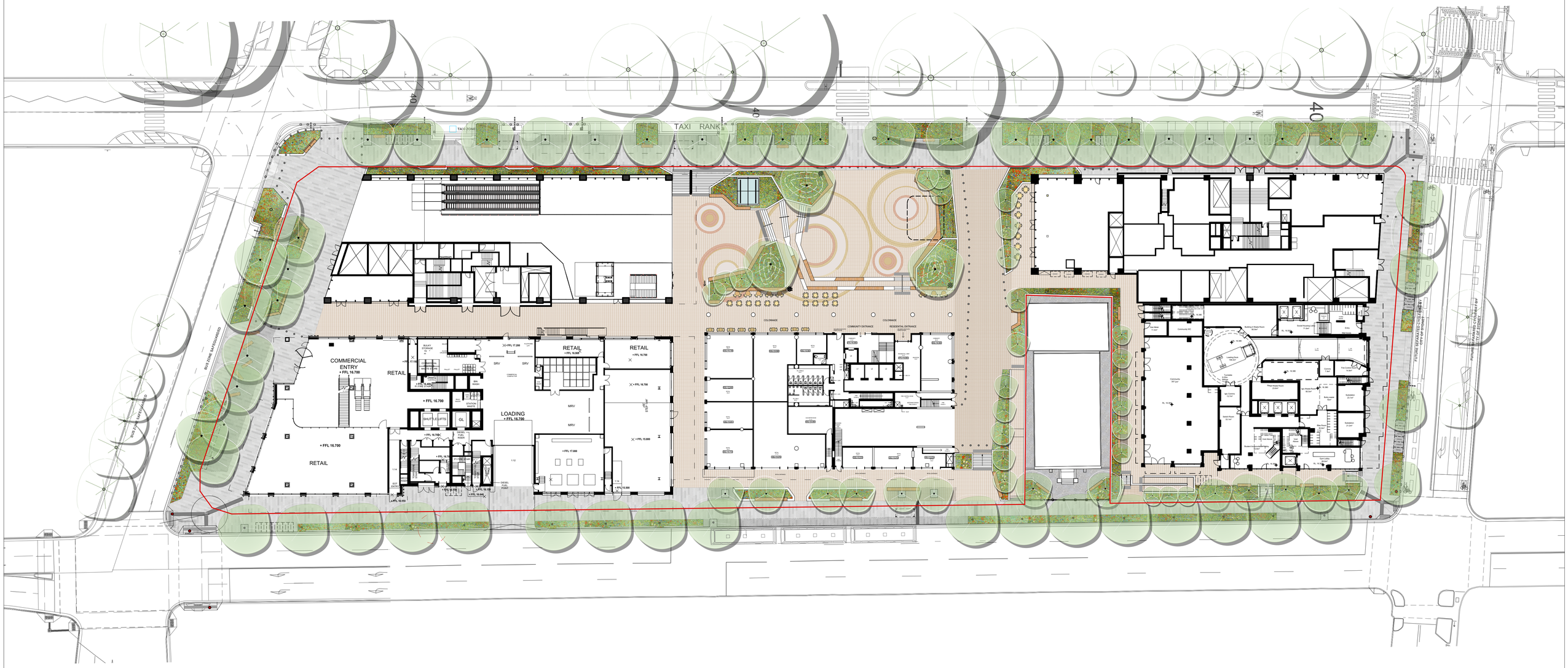
Status

Sheet number: WMQ-BLD3-BSA-AR-DRG-DA100

Revision: F

Date generated 15/06/2020 5:52:13 PM BIM 360://Sydney Metro - Waterloo Station/WMQ-BLD3-BSA-AR-MDL-0101-RVT-R20.rvt

Appendix 15 – Proposed site configuration



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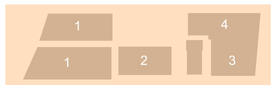
NORTH

KEY PLAN



REV	DATE	AMENDMENTS
01	03/07/20	DRAFT DA ISSUE

STATUS
DEVELOPMENT APPLICATION

ARCHITECT

CLIENT
sydney METRO
JOHN HOLLAND
mirvac

PROJECT
WATERLOO METRO QUARTER
PRECINCT PLAN

DRAWING
PUBLIC DOMAIN MASTERPLAN
GROUND FLOOR

DRAWN	CHECKED	SCALE @ A1
JT/CK	SB | KL	1:100

DRAWING NO.	REVISION
WMQ-PBDN-ASP-LS-DRG-DA-100	1