

KEY:

OSD BUILDING ENVELOPE

VICTORIA CROSS STATION CSSI ENVELOPE

SHADOWS CAST BY EXISTING BUILDINGS

SHADOWS CAST BY OSD ENVELOPE

SHADOW CAST BY CSSI ENVELOPE

REDUCTION OF SHADOWS INCREASE IN SHADOWS

BRETT WHITELEY PLAZA

A.3.3 SHADOW ANALYSIS SPECIAL AREA

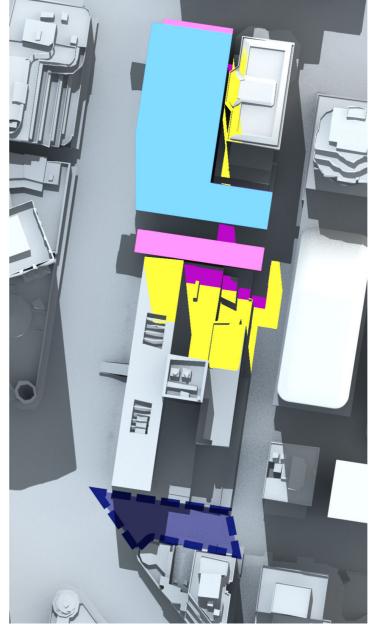
SPRING EQUINOX SEPTEMBER 22ND

BRETT WHITELEY SPECIAL AREA

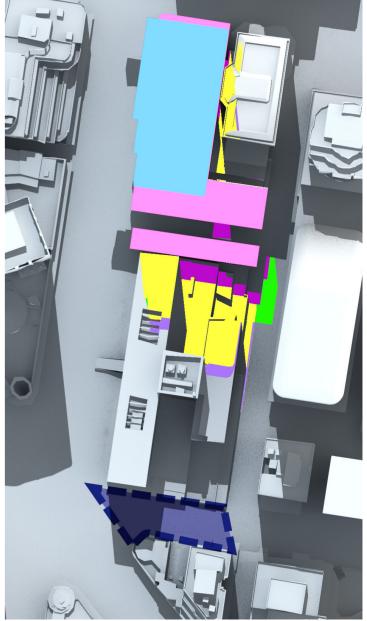
The Brett Whiteley Special Area indicated in blue is not overshadowed by either the approved OSD Concept SSD building envelope or the modified building envelope.

Clause 6.3 (2) of the North Sydney Local Environment Plan 2013 states that: "development consent must not be granted for the erection of a building on land to which the Division applies if: (a) The development would result in a net increase in overshadowing between 12 pm and 2 pm from the March Equinox to the September Equinox (inclusive) on land to which this Division applies that is within Zone RE1 Public Recreation or that is identified as 'Special Area' on the North Sydney Centre map.

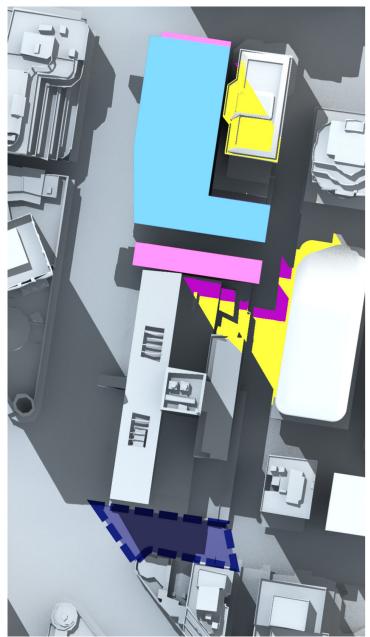




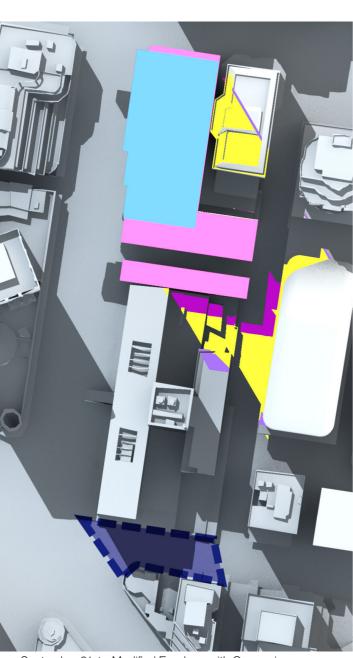
12pm September 21st - Approved Envelope



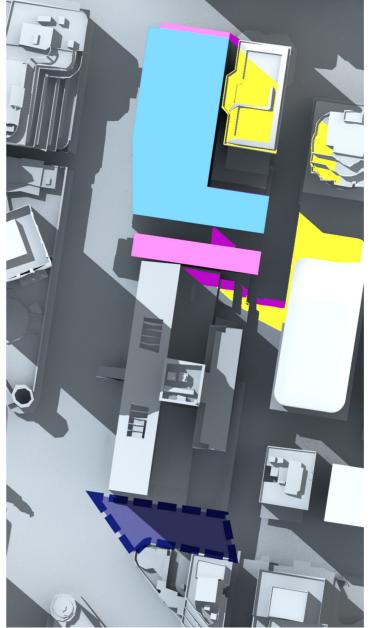
12pm September 21st - Modified Envelope with Comparison



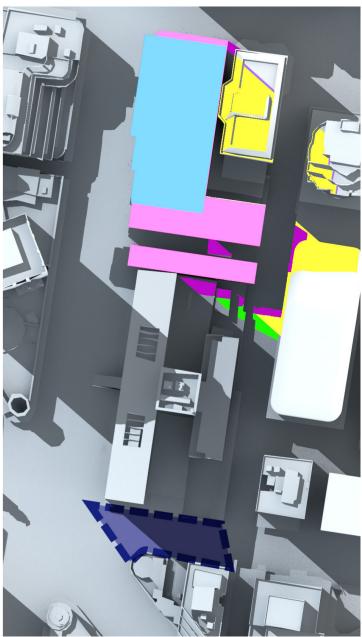
1pm September 21st - Approved Envelope



1pm September 21st - Modified Envelope with Comparison



2pm September 21st - Approved Envelope



2pm September 21st - Modified Envelope with Comparison

SHADOW ANALYSIS RESIDENTIAL AREAS

Clause 6.3 (3.) of the North Sydney Local Environment Plan 2013 (LEP 2013) states that:

The consent authority may grant development consent to a development on Land in the North Sydney Centre that would exceed the maximum height of buildings shown for the land on the Height of Buildings Map if the consent authority is satisfied that any increase in overshadowing between 9am and 3pm from the March Equinox to the September Equinox (inclusive) will not result in any private open space or window to a habitable room, located outside the North Sydney Centre receiving:

(a) if it received 2 hours or more of direct sunlight immediately before the commencement of North Sydney LEP 2013 -Less than 2 hours of sunlight, or

(b) if it received less than 2 hours of direct sunlight immediately before the commencement of North Sydney LEP 2013 less direct sunlight than it did immediately before that commencement

WINTER SOLSTICE **JUNE 21ST**

RESIDENTIAL AREAS

The adjacent diagrams demonstrate the shadow impact created by the development to the residential areas outside the North Sydney Centre. Both the approved OSD Concept SSD building envelope (Top row) and the modified building envelope have beer

There is no additional shadow created by either the approved or modified building envelope from 9am till 2.30pm. However, at 3pm it is evident that the building envelope creates a shadow on a total of 3 residential properties on Whaling Road. The diagrams in the following section explore this in more detail.

The extents of shadow caused by the modified envelope are consistent with those of the approved envelope. There are no addtional impacts to the RE1 zones.

KEY:

OSD BUILDING ENVELOPE

VICTORIA CROSS STATION CSSI

SHADOWS CAST BY EXISTING BUILDINGS

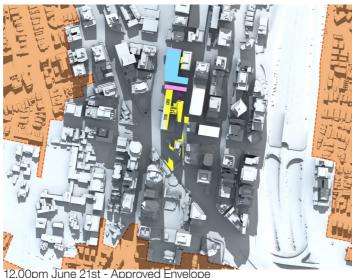
SHADOWS CAST BY OSD ENVELOPE

SHADOW CAST BY CSSI ENVELOPE

REDUCTION OF SHADOWS

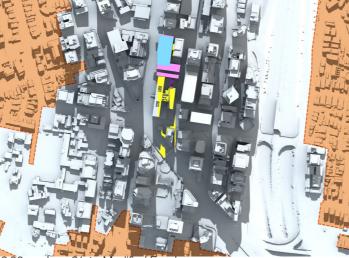
INCREASE IN SHADOWS

RE1 RESIDENTIAL AREAS









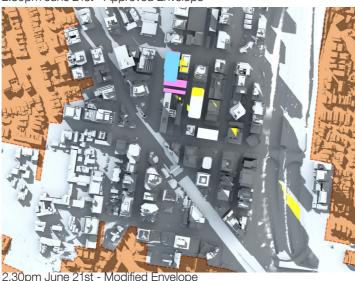




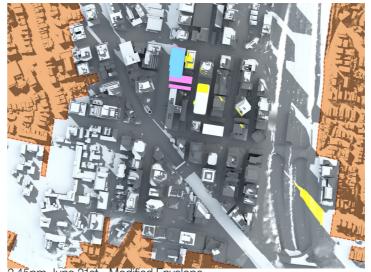
















A.5.1 SHADOW ANALYSIS RESIDENTIAL PROPERTIES

WINTER SOLSTICE **JUNE 21ST**

RESIDENTIAL PROPERTIES

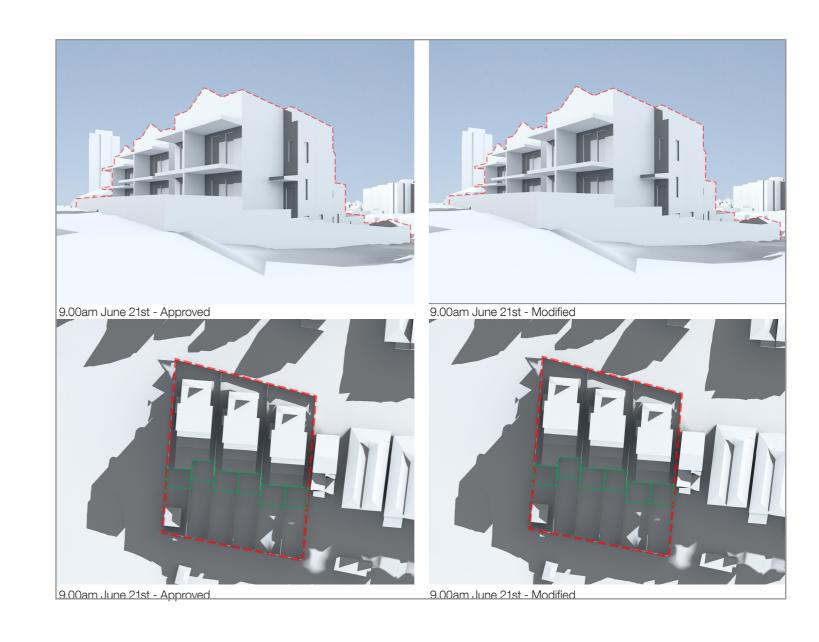
The adjacent diagrams demonstrate the shadow impact created by the both the approved OSD Concept SSD building envelope and the modified building envelope in relation to the residential properties on Whaling Road.

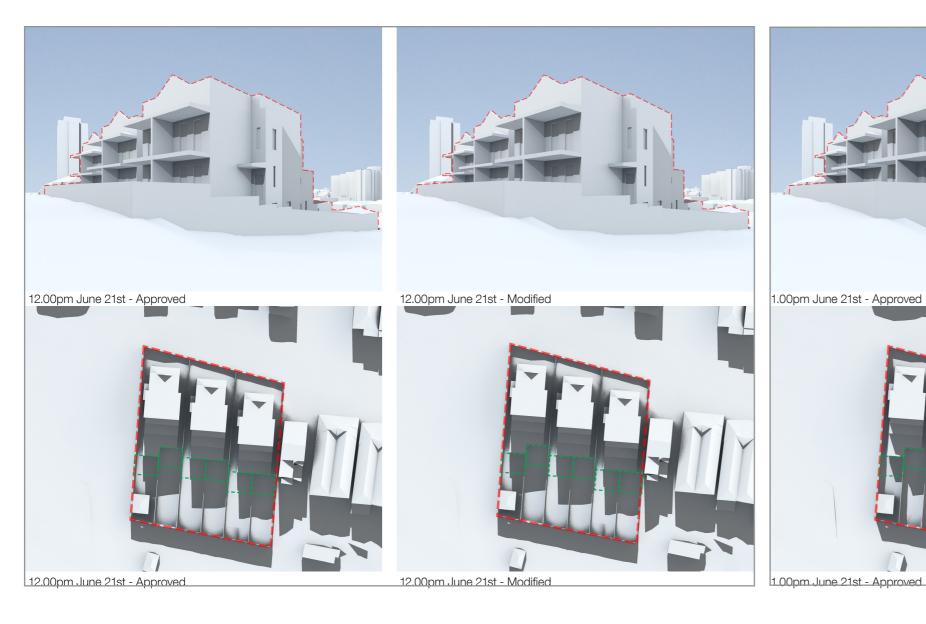
The North Sydney Centre Local Environment Plan prohibits any additional overshadowing to any window or principal private open space that currently receives less than 2 hours of direct sunlight. The diagrams show that the windows of residential properties at No's 1, 3, 5 and 11 Whaling Road receive at least 2 hours of direct sunlight between 12.30pm and 2.30pm on June 21st. The south facing private open spaces (indicated in a green dashed outline) are not affected by the shadow cast by either the approved or the modified building envelope as the shadow falls outside the area defined as the principal private open space.

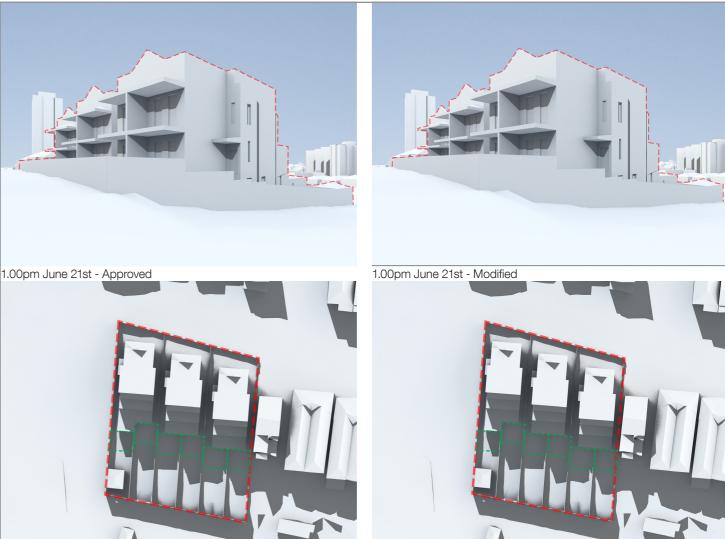


Residential Property at No.1 Whaling Road - The shows the residential property at No.1 Whaling Road. Directly to the west is Alfred Park. Considerable overshadowing is caused by the mature trees that surround the park. We have not taken these into consideration but they would have an impact on the solar access to the property at 1 Whaling Road.

KEY: EXISTING SHADOW SHADOWS CAST BY OSD ENVELOPE PRINCIPAL PRIVATE OPEN SPACE (INFORMED BY NORTH SYDNEY DCP 2013)

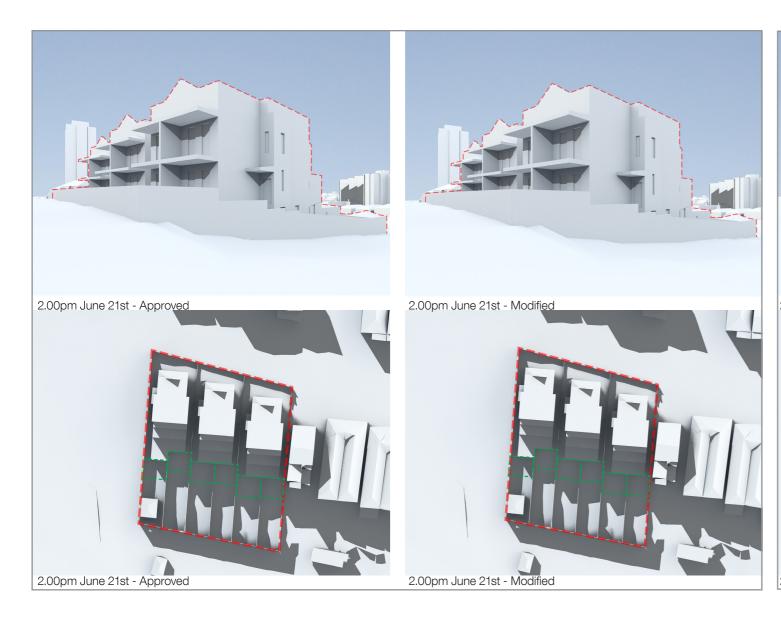


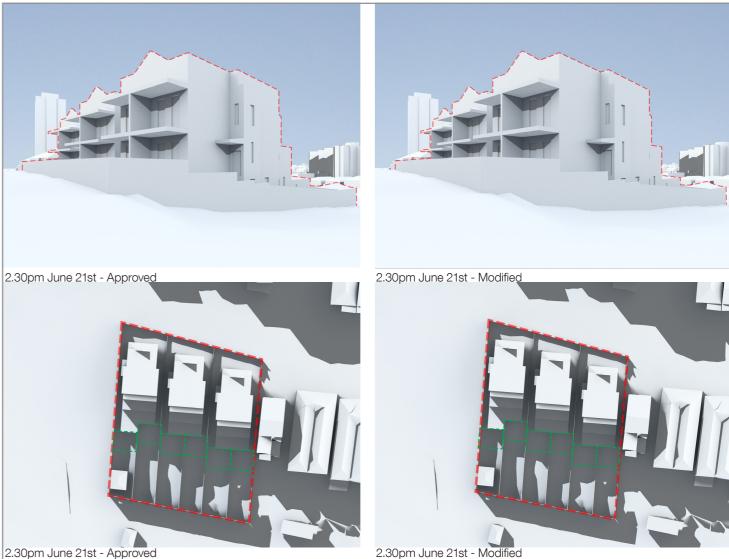




1.00pm June 21st - Modified

SHADOW ANALYSIS RESIDENTIAL PROPERTIES





KEY:

EXISTING SHADOW

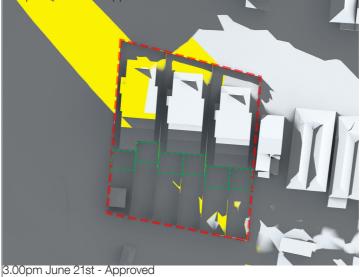
SHADOWS CAST BY OSD ENVELOPE

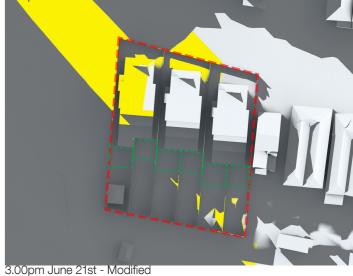
PRINCIPAL PRIVATE OPEN SPACE (INFORMED BY NORTH SYDNEY DCP 2013)











2:45PM IMPACT

2.45pm June 21st - Approved

The impact to the Whaling Road Terraces is the same when comparing the approved and modified envelopes.

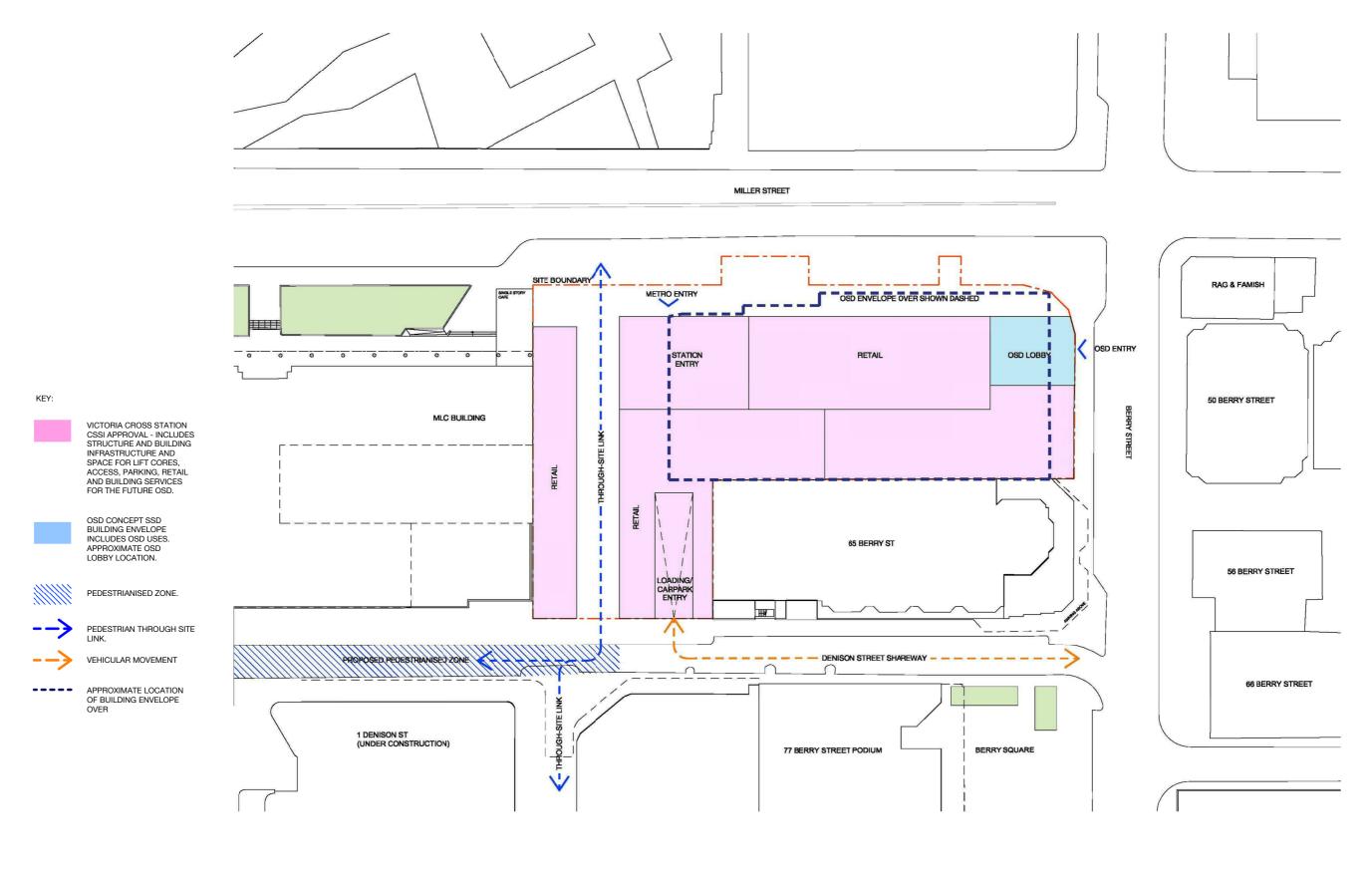
3PM IMPACT

The impact to the Whaling Road Terraces is the same when comparing the approved and modified envelopes.

2.45pm June 21st - Modified







FOR INFORMATION

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TFNSW Victoria Cross OSD Building Envelope Indicative Ground Floor

A01.001

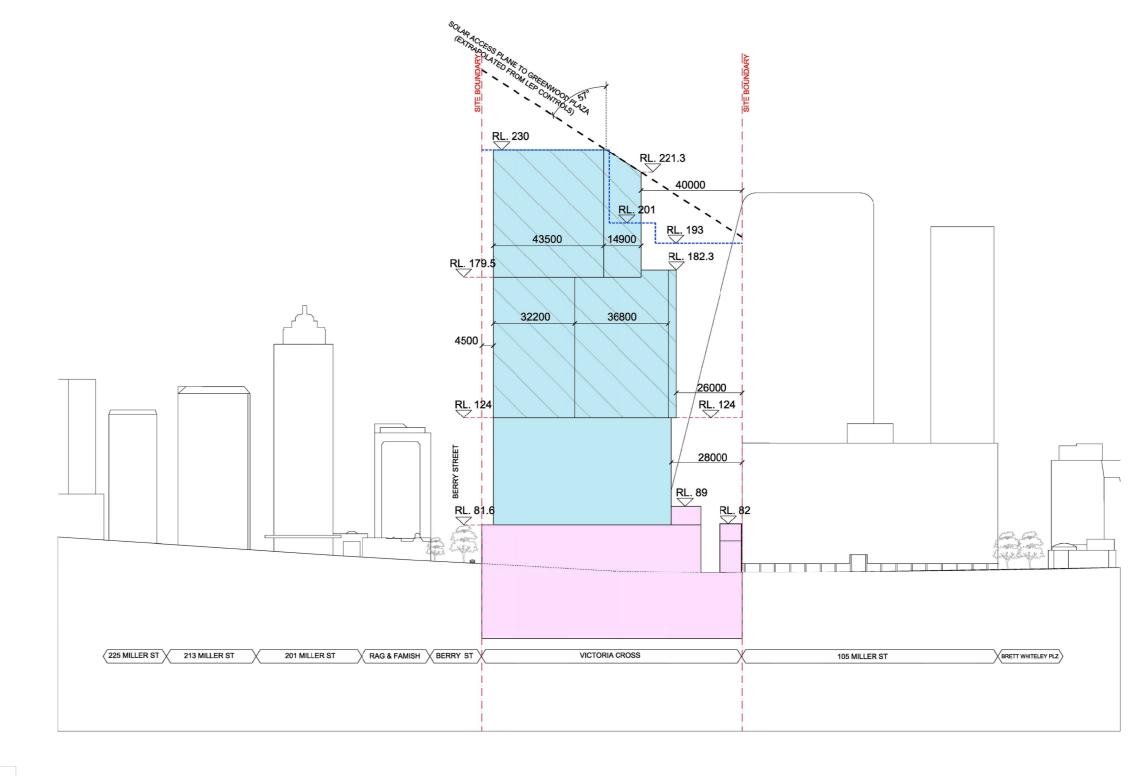
Scale	Not to scale	@ A0		
Drawn	Author	Checked	Checker	
Project no.	12188			
Status	S4.55 Modification			
Plot Date	5/07/2019 12:42:59 PM			
Plot File				

7

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BATESSMART



Note: A 500mm flexible zone is presumed on the Northern elevation of the building envelope, and a 250mm flexible zone is presumed on the Southern elevation of the building envelope, to allow for non-habitable architectural detailing and expression

MAXIMUM BUILDING HEIGHT (NORTH SYDNEY LOCAL ENVIRONMENT PLAN 2013)

VICTORIA CROSS STATION CSSI APPROVAL - INCLUDES STRUCTURE AND BUILDING

INFRASTRUCTURE AND SPACE FOR LIFT CORES, ACCESS, PARKING, RETAIL AND BUILDING SERVICES

FOR THE FUTURE OSD.

OSD CONCEPT SSD BUILDING ENVELOPE INCLUDES OSD USES.

ARTICULATION ZONE -0-4.5M WIDE.

FOR INFORMATION

Check all dimensions and site conditions prior to commencement of any work, the purchase or ordering of any materials, fittings, plant, services or equipment and the preparation of shop drawings and or the fabrication of any components.

KEY:

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7 05.07.19 ISSUE FOR \$4.55 MODIFICATION 6 2.05.19 ISSUE FOR \$4.55 ISSUE FOR \$5.05 ISSUE FOR \$5 TFNSW

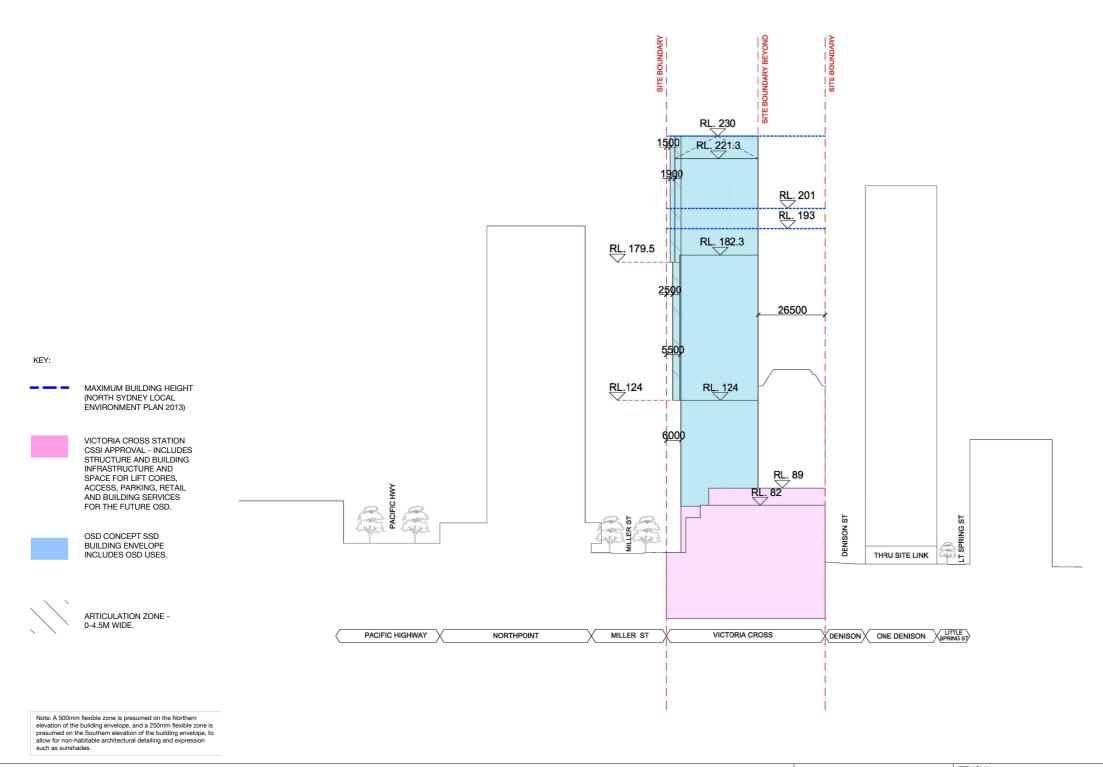
Victoria Cross OSD Building Envelope Miller Street Elevation Scale Not to scale @ A0 Melbourne 1 Nicholson Street
Melbourne VIC 3000 Australia
To 38664 6200 F 03 8664 6300

Not to scale @ A0 Melbourne VIC 3000 Australia
T 03 8664 6200 F 03 8664 6300
T 02 8354 5100 F 02 8354 5199 Project no. 12188 Status S4.55 Modification Plot Date 5/07/2019 12:46:11 PM
Plot File Drawing no.

email mel@batessmart.com.au email syd@batessmart.com.au http://www.batessmart.com.au http://www.batessmart.com.au

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7 05.07.19 ISSUE FOR 94.55 MODIFICATION 6 2.05.19 ISSUE FOR 94.55 MODIFICATION 15 ISSUE FOR 95.0A 2 16.04.18 ISSUE FOR SSDA 1 2.02.01 IS ISSUE FOR SSDA 1 2.02.01 IS ISSUE FOR SSDA 1 2.02.01 IS ISSUE FOR SSDA Plevision Date Description JWC MLS JWC MLS

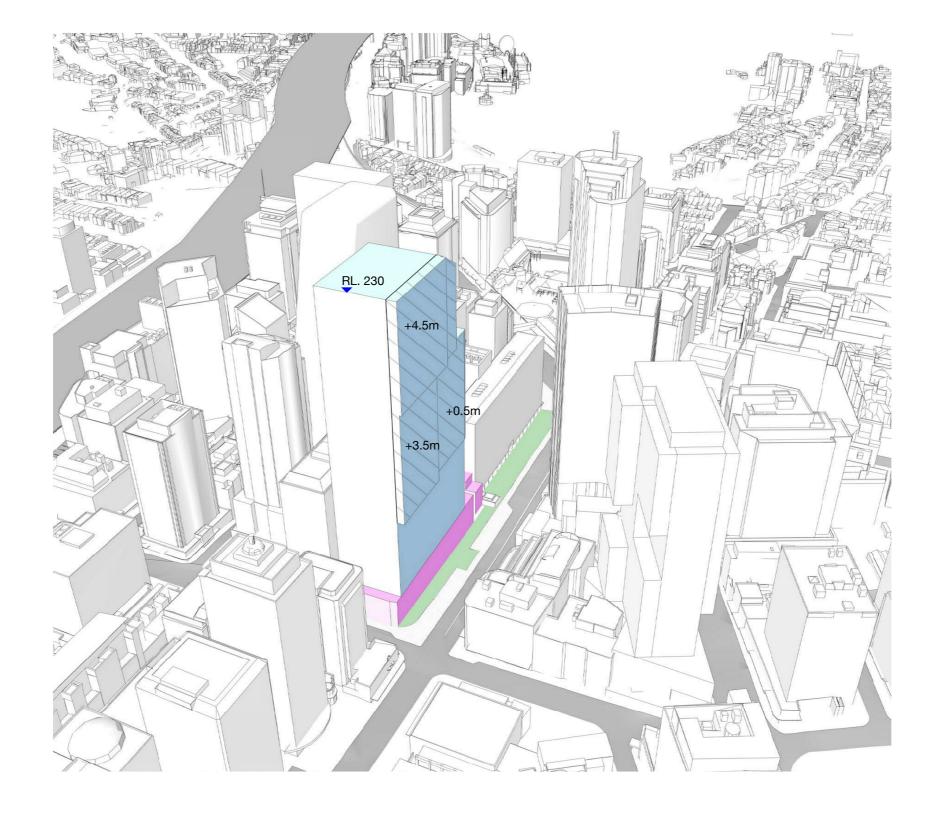
Victoria Cross OSD Building Envelope East West Section

Status S4.55 Modification Plot Date 5/07/2019 12:46:57 PM Plot File

A01.003

Scale Not to scale @ A0 Melbourne 1 Nicholson Street Melbourne Vic 3000 Australia Surry Hills NSW 2010 Australia Surry Hills NSW 2010 Australia Surry Hills NSW 2010 Australia To 2864 6200 F 0 3864 6300 F 0 3864 6 email mel@batessmart.com.au http://www.batessmart.com.au http://www.batessmart.com.au

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KEY:



OSD CONCEPT SSD BUILDING ENVELOPE INCLUDES OSD USES.



Note: A 500mm flexible zone is presumed on the Northern elevation of the building envelope, and a 250mm flexible zone is presumed on the Southern elevation of the building envelope, to allow for non-habitable architectural detailing and expression such as sunshades.

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FOR INFORMATION

JWC MLS JWC MLS JWC MLS

Victoria Cross OSD Building Envelope North West Axonometric

TFNSW

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Drawn Author Checked Checker Project no. 12188
Status S4.55 Modification Plot Date 5/07/2019 12:49:20 PM Plot File

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A01.004

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KEY:



VICTORIA CROSS STATION CSSI APPROVAL - INCLUDES STRUCTURE AND BUILDING INFRASTRUCTURE AND SPACE FOR LIFT CORES, ACCESS, PARKING, RETAIL AND BUILDING SERVICES FOR THE FUTURE OSD



OSD CONCEPT SSD BUILDING ENVELOPE INCLUDES OSD USES.



ARTICULATION ZONE -0-4.5M WIDE

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FOR INFORMATION

JWC MLS JWC MLS

TFNSW Victoria Cross OSD Building Envelope South West Axonometric

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Drawn Author Checked Checker
Project no. 12188

Status S4.55 Modification

Melbourne 1 Nicholson Street Melbourne ViC 3000 Australia T 03 8664 6200 F 03 8694 F 0 Project no. 12188
Status S4.55 Modification
Plot Date 5/07/2019 12:38:11 PM Plot File A01.005 7

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