Image 130 Extract from Aspect Studio's Public Domain Design Report showing reference images for key elements





- Viewing pods to the Harbour 1_
- 2_ Local retail within seating in planting
- 3_ Green link from pyrmont into Darling Harbour
- Lawn with seating edges 4_
- Local pop-up events 5_
- 6 Green roof



Image 131 Public Domain reference images



Image 132 Public Domain

Articulation and Materiality

Uniquely Sydney

Pyrmont is a special place with a strong and unique character drawn from its rich history and distinctive topography and landscape. The facade systems and materiality should seek to ground the building in Pyrmont and the immediate waters edge landscape whilst the tower should adopt a higher degree of glazing and lightness.

The main façade (north, east and south elevations) of the residential tower is proposed to be high quality glazing with high VLT and low levels of reflectivity.

The podium levels will be organic forms or shapes with facated facades and high levels of articulation. Between these strata levels will be predominately high quality glass facades, with potential for integrated digital displays and living green walls giving the form texture and depth.



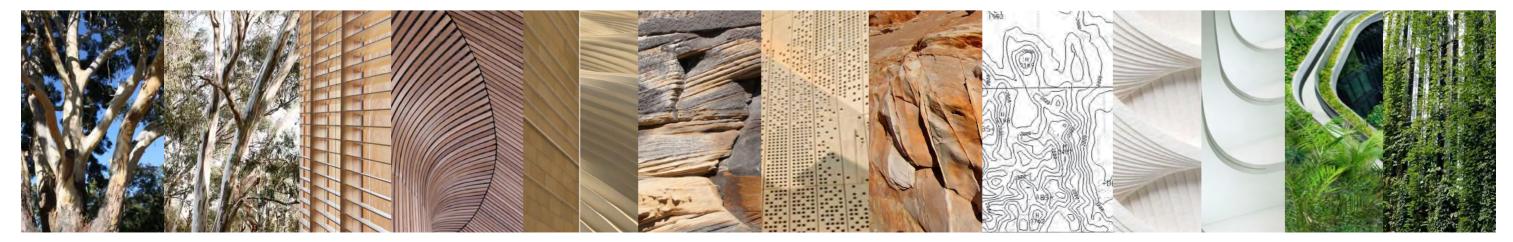


Image 133 Public Domain reference images

mirvac harbourside stage 1 da



TF1 Main Tower Facade

High performance glazing, high VLT, low reflectivity.



PF2 Podium Glazing

Clear glass via a floor-by-floor system incorporating large louvers delivering external connectivity to the retail spaces behind.

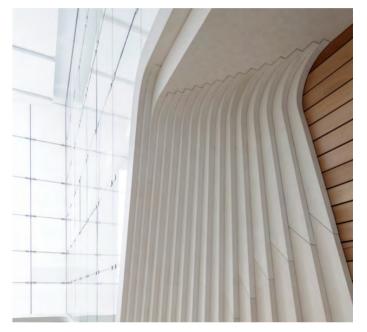


Timber

Potential timber elements to incorporated into the podium facades to provide warmth and softness.



francis-jones morehen thorp



Stone

Potential use of stone as a feature carried through the retail podium el-ements such that the facades and publicly accessible spaces are united through materiality and organic architectural expression.

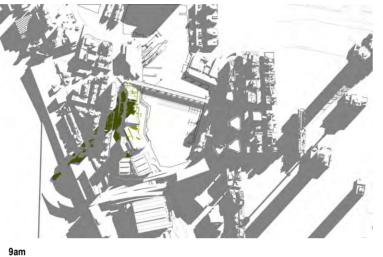
architectural design report & drawings illustrative concept design

Shadow Analysis

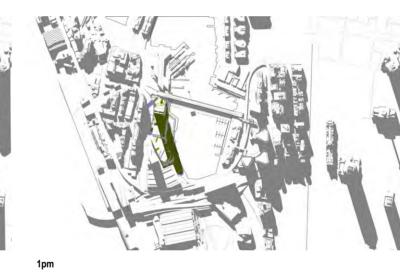
Provided is both plan and perspective shadow analysis of the envelope and Illustrative Concept scheme from 9am - 3pm for 21st June (Winter), 21st Dec (Summer) and the Equinox 21st Sept.

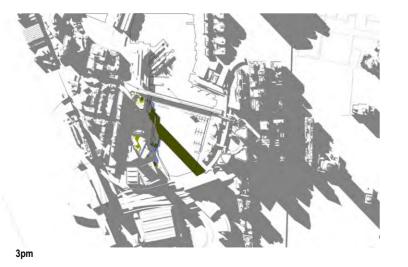
Complete drawing package is located at Appendix A - (iil)

Winter Shadow Analysis









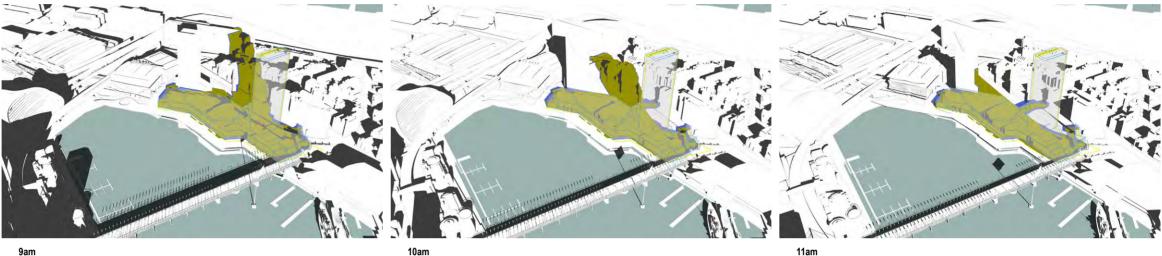
12pm

EXISTING SHADOWS (INCLUDING EXISTING HARBOURSIDE RETAIL) OVERLAPPING SHADOWS FROM BOTH THE PROPOSED ENVELOPE AND THE INDICATIVE CONCEPT SCHEME PROPOSED ENVELOPE SHADOWS

INDICATIVE CONCEPT SCHEME SHADOWS



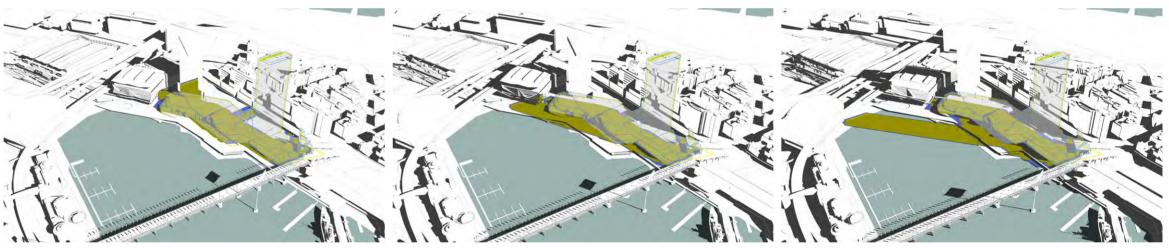




Winter Shadow Analysis

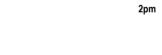
10 a

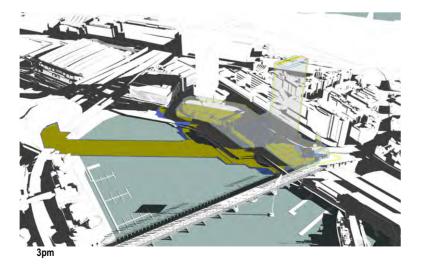
11am



12pm

1pm





EXISTING SHADOWS (INCLUDING EXISTING HARBOURSIDE RETAIL) PROPOSED ENVELOPE SHADOWS

INDICATIVE CONCEPT SCHEME SHADOWS

9am 10am

1-2

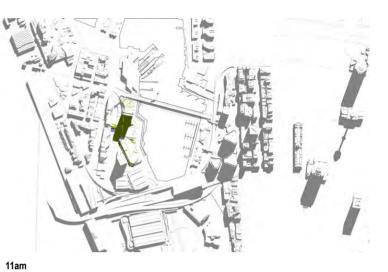


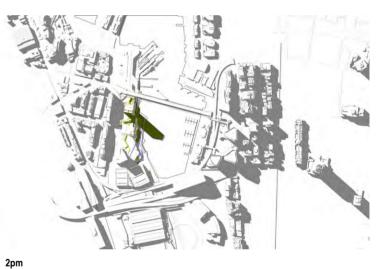
12pm

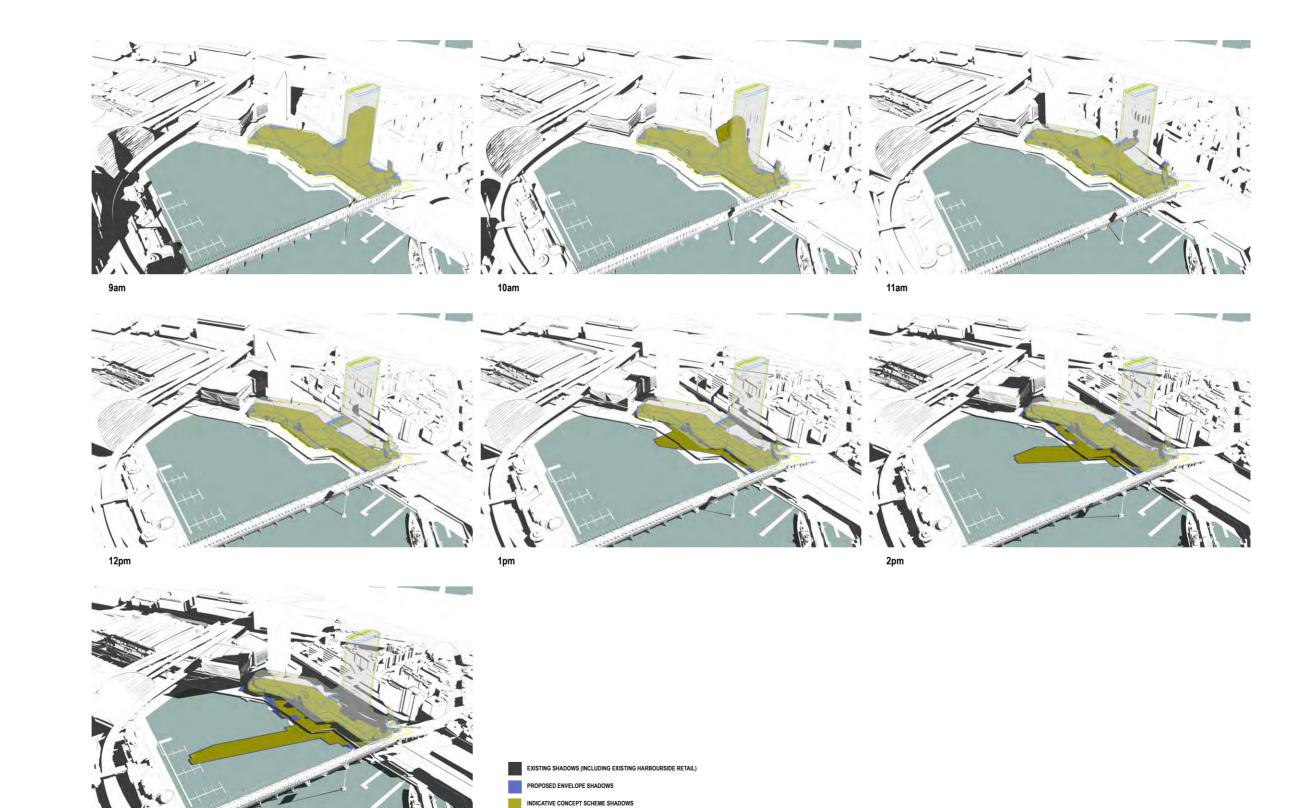


Equinox Shadow Analysis

70

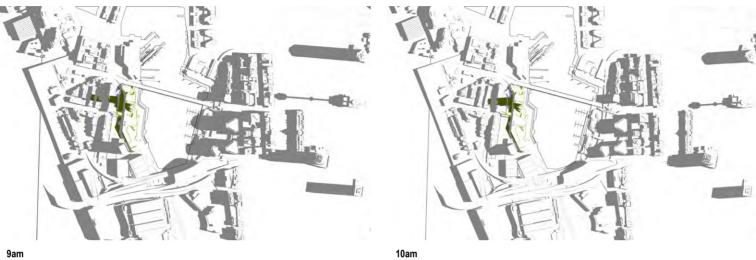


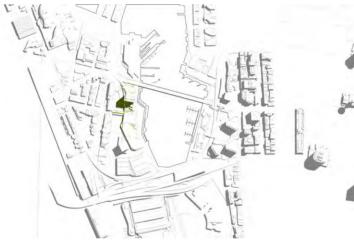




Equinox Shadow Analysis

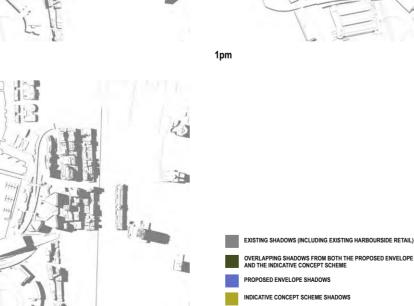
francis-jones morehen thorp





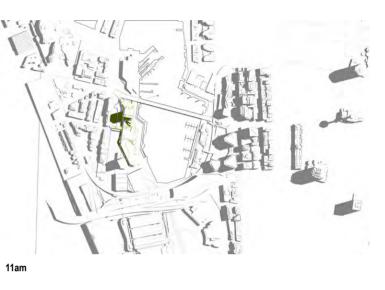
12pm

53



3pm

Summer Shadow Analysis



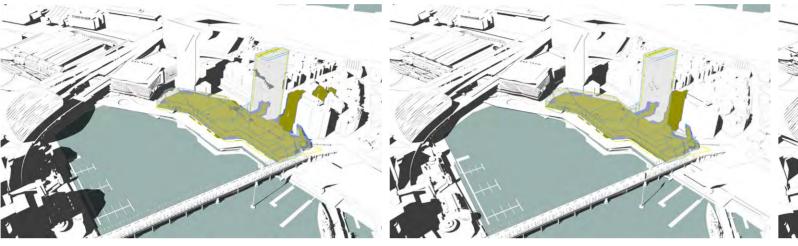


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2pm

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12pm

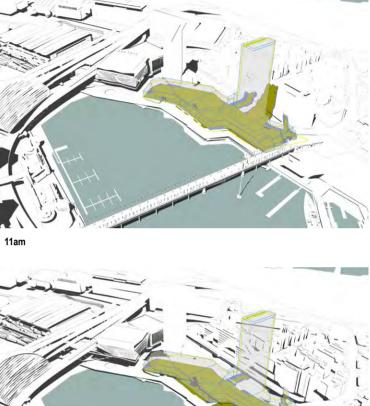
10am



EXISTING SHADOWS (INCLUDING EXISTING HARBOURSIDE RETAIL) PROPOSED ENVELOPE SHADOWS

INDICATIVE CONCEPT SCHEME SHADOWS

Summer Shadow Analysis



10.0 SEPP 65 Design Quality Principles & ADG Compliance

SEPP 65

Principle 1: Context and neighbourhood character

Good design responds and contributes to its context. Context is the key natural and built features of an area, their relationship and the character they create when combined. It also includes social, economic, health and environmental conditions. Responding to context involves identifying the desirable elements of an area's existing or future character. Well designed buildings respond to and enhance the gualities and identity of the area including the adjacent sites, streetscape and neighbourhood. Consideration of local context is important for all sites, including sites in established areas, those undergoing change or identified for change.

Principle 2: Built form and scale

Good design achieves a scale, bulk and height appropriate to the existing or desired future character of the street and surrounding buildings. Good design also achieves an appropriate built form for a site and the building's purpose in terms of building alignments, proportions, building type, articulation and the manipulation of building elements. Appropriate built form defines the public domain, contributes to the character of streetscapes and parks, including their views and vistas, and provides internal amenity and outlook.

Principle 3: Density

Good design achieves a high level of amenity for residents and each apartment, resulting in a density appropriate to the site and its context. Appropriate densities are consistent with the area's existing or projected population. Appropriate densities can be sustained by existing or proposed infrastructure, public transport, access to jobs, community facilities and the environment

Principle 4: Sustainability

Good design combines positive environmental, social and economic outcomes. Good sustainable design includes use of natural cross ventilation and sunlight for the amenity and liveability of residents and passive thermal design for ventilation, heating and cooling reducing reliance on technology and operation costs. Other elements include recycling and reuse of materials and waste, use of sustainable materials and deep soil zones for groundwater recharge and vegetation.

Principle 6: Amenity

Good design positively influences internal and external amenity for residents and neighbours. Achieving good amenity contributes to positive living environments and resident well being. Good amenity combines appropriate room dimensions and shapes, access to sunlight, natural ventilation, outlook, visual and acoustic privacy, storage, indoor and outdoor space, efficient layouts and service areas and ease of access for all age groups and degrees of mobility.

Principle 7: Safety

Good design optimises safety and security within the development and the public domain. It provides for quality public and private spaces that are clearly defined and fit for the intended purpose. Opportunities to maximise passive surveillance of public and communal areas promote safety. A positive relationship between public and private spaces is achieved through clearly defined secure access points and well lit and visible areas that are easily maintained and appropriate to the location and purpose.

Principle 8: Housing diversity and social interaction

Good design achieves a mix of apartment sizes, providing housing choice for different demographics, living needs and household budgets. Well designed apartment developments respond to social context by providing housing and facilities to suit the existing and future social mix. Good design involves practical and flexible features, including different types of communal spaces for a broad range of people and providing opportunities for social interaction among residents.

Principle 9: Aesthetics

Good design achieves a built form that has good proportions and a balanced composition of elements, reflecting the internal layout and structure. Good design uses a variety of materials, colours and textures. The visual appearance of a well designed apartment development responds to the existing or future local context, particularly desirable elements and repetitions of the streetscape.

Principle 5: Landscape

Good design recognises that together landscape and buildings operate as an integrated and sustainable system, resulting in attractive developments with good amenity. A positive image and contextual fit of well designed developments is achieved by contributing to the landscape character of the streetscape and neighbourhood. Good landscape design enhances the development's environmental performance by retaining positive natural features which contribute to the local context, coordinating water and soil management, solar access, micro-climate, tree canopy, habitat values and preserving green networks. Good landscape design optimises usability, privacy and opportunities for social interaction, equitable access, respect for neighbours' amenity and provides for practical establishment and long term management.

	Apartment Design Guide Ana					
lause Number		Objective	Design Criteria			fjmt Studio Commentary
PART 03 - SITI	IG THE DEVELOPMENT					
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		3B-1	Building types and layouts res development	pond to the streetscape and site wh	nile optimising solar access within the	 Refer to the Streetscape section of the report The Apartments are located to optimise solar to the significant public domain elements.
	Orientation	3B-2	Overshadowing of neighbouri	ng properties is minimised during m	id winter	• The building forms and orientation have been
	Public Domain Interface	3C-1	Transition between private and	d public domain is achieved without	compromising safety and security	The Stage 1 SSDA concept proposals have a developed proposal can achieve this requirem
		3C-2	Amenity of the public domain	is retained and enhanced		 All apartments are provided with private oper the setback levels. The lowest residential lev good visual and acoustic separation.
	Communal and Public Open Space	3D-1	opportunities for landscaping1. Communal open space I2. Developments achieve a	has a minimum area equal to 25% o a minimum of 50% direct sunlight to		 Their is opportunity for generous residential a scheme drawings. These facilities can have a
		3D-2	Communal open space is desi attractive and inviting	igned to allow for a range of activitie	es, respond to site conditions and be	 Their is opportunity for generous residential a scheme drawings. These facilities can have a
		3D-3	Communal open space is des	igned to maximise safety		 Passive surveillance of space and CPTED produced development and can be enhanced with CCT
		3 D- 4	Public open space, where prov	vided, is responsive to the existing p	attern and uses of the neighbourhood	 The Stage 1 SSDA concept proposals have a developed proposal can achieve this requirem
	Deep Soil Zone	3E-1	improve residential amenity ar	on the site that allow for and suppo nd promote management of water an he following minimum requirements:	The Stage 1 SSDA concept proposals have a developed proposal can achieve this requirer.	
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	Site Amenity - Visual Privacy	3F-1	reasonable levels of external a	etween buildings on the same site sh	 All building separation distances comply with additional visual privacy by providing operable 	
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pen space in the form of balconies and larger terraces on level is 30.5m above the waterfront public domain proving

I amenities on Level 5 as indicated on the illustrative e access to an external landscaped terrace.

I amenities on Level 5 as indicated on the illustrative e access to an external landscaped terrace.

principles have been considered throughout the CTV coverage of the public domain and lobby areas.

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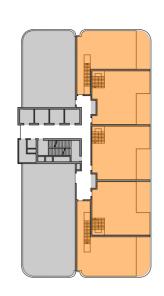
ith the criteria. The proposed scheme has opportunity for ble screening to the glazed facade.

nieve this requirement.

e greater public domain.



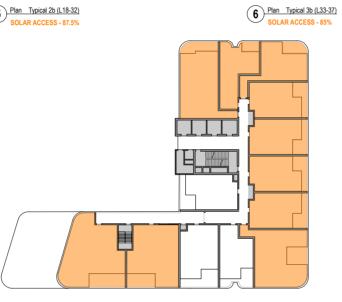


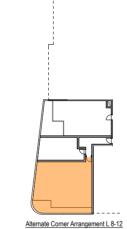


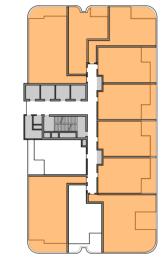
Residential Amenity

Solar Access :

5 Plan Typical 2b (L18-32) SOLAR ACCESS - 87.5%

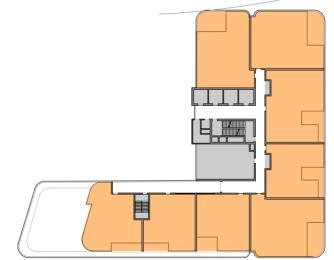






8 Plan Pent SOLAR ACCESS - 100%

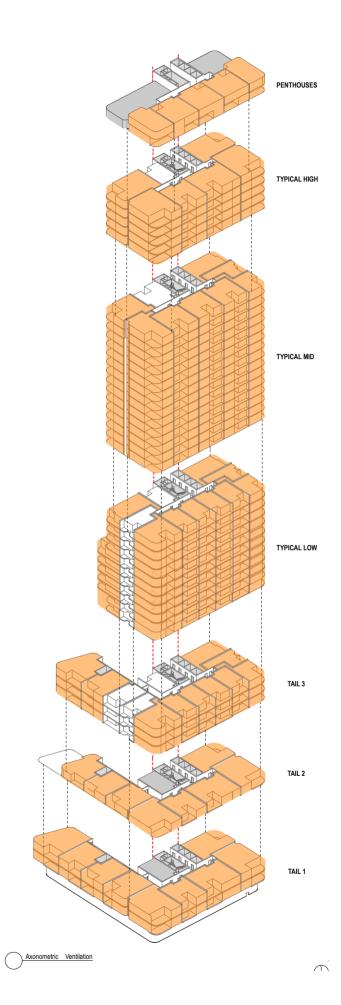
4 Plan Typical 1B (L7-17) SOLAR ACCESS - 71%



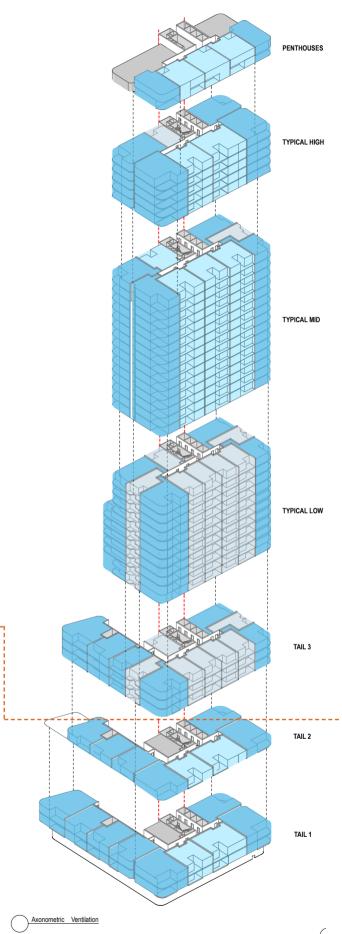
1 Plan Tail 1 (L1-2) SOLAR ACCESS- 100%

3 Plan Tail 3 (L4-6) SOLAR ACCESS - 77%

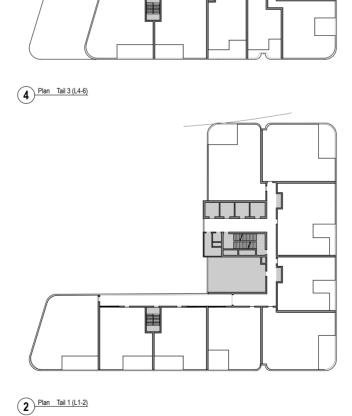
2 Plan Tail 2 (L3) SOLAR ACCESS - 100%

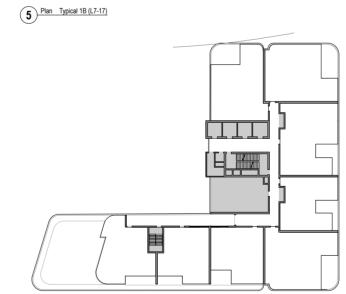






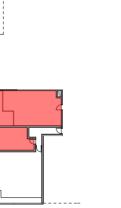






Alternate Corner Arrangement L 8-12

3 Plan Tail 2 (L3)



8 Plan Pent



Residential Amenity

South facing:

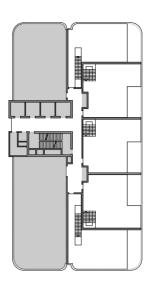
ADG compliance - sections

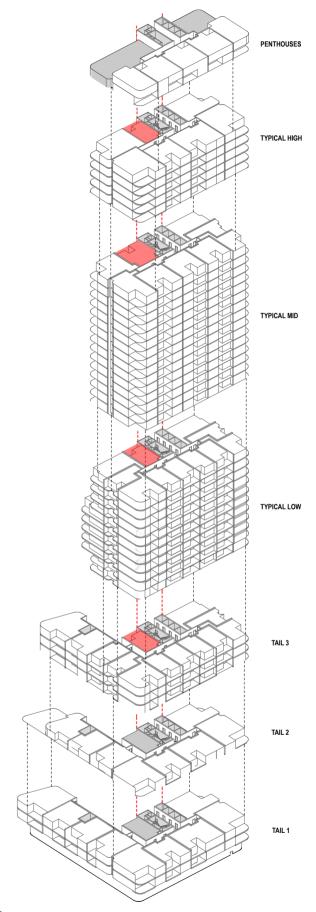


6 Plan Typical 2b (L18-32)



7 Plan Typical 3b (L33-37)





Axonometric South Facing

Ē

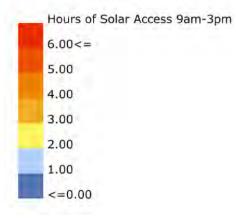
Solar analysis to 50 Murray Street

This study reviews the impact of the proposal upon the direct solar access to the east (city side) of 50 Murray Street at mid winter. The analysis adopts the solar access benchmark Provisions of Sydney DCP 2012, Section 4.1.3.1 Solar Access, ie:

- Development sites and neighbouring dwellings are to achieve a minimum of 2 hours direct sunlight between 9am and 3pm on 21 June onto at least 1sqm of living room windows and at least 50% of the minimum amount of private open space.

- New development must not create any additional overshadowing where solar access is less than two hours between 9am and 3pm on 21 June. This control does not apply to windows on a side boundary or windows only separated from a side boundary or passageway.

The following study checks if 2 hours direct sunlight between 9am and 3pm at mid winter is currently achieved across the east (city side) of 50 Murray Street. The analysis also considers how the Harboursdie proposals impact upon the results. Specialist software (Grasshopper for Rhino with specialist plug-ins) has been used to determine hours of direct sunlight across the facades. The analysis has been undertaken based on the SSDA Stage 1 envelope, ie: not the illustrative scheme form.



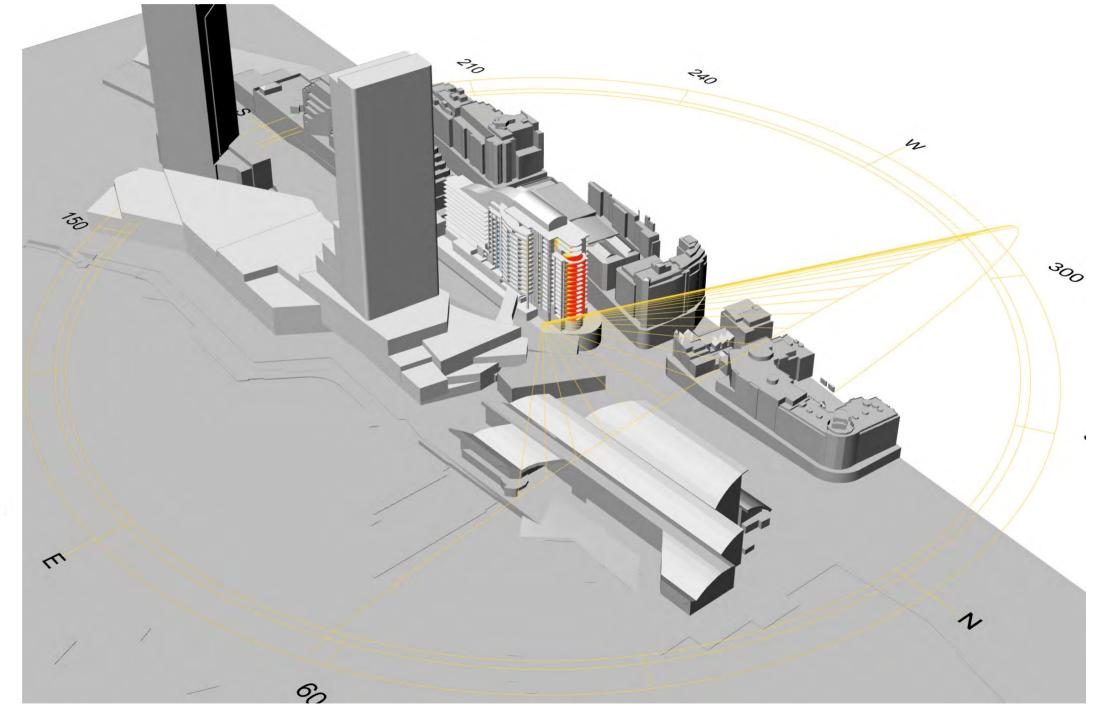


Image 134 Solar analysis methodology and legend - radial line in yellow indicate sun path between 9.00am and 3.00pm.

Mid Winter:

Solar analysis to 50 Murray Street

Results indicate that the existing building does not currently achieve 2 hours of direct sunlight to all living rooms and balconies between 9am and 3pm as highlighted in blue. This is predominately due to the large balcony overhangs and siting of the building. (image: 135). The north facing balconies (as highlighted in red) clearly achieve good direct solar access as expected.

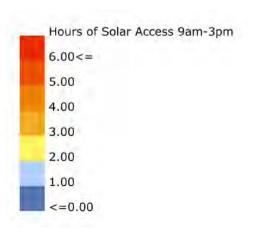
For the 21st of June the Harbourside proposal has nil impact upon the solar access of the living rooms and balconies of 50 Murray Street due to the angle of the sun from 9am-3pm shown on the drawings below. (image: 136)



Image 135 Solar analysis of 50 Murray Street: Existing 21 June



Image 136 Solar analysis of 50 Murray Street: Proposed 21 June



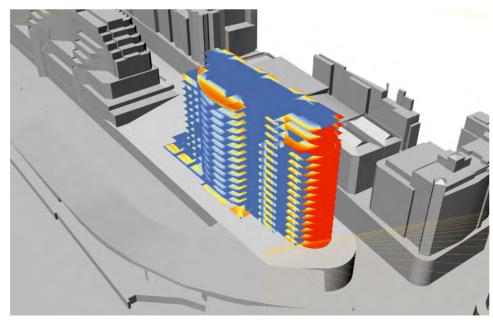


Image 137 Solar analysis of 50 Murray Street: Existing with floorplates only for clarity 21 June

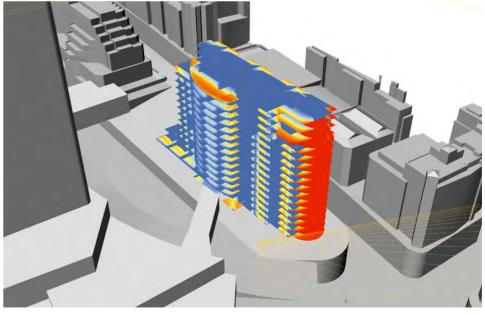


Image 138 Solar analysis of 50 Murray Street: Proposed with floorplates only for clarity 21 June

Mid summer:

Solar analysis to 50 Murray Street

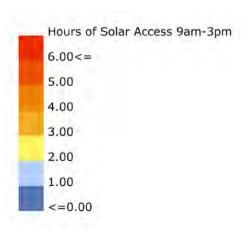
While the provisions of Sydney DCP 2012, Section 4.1.3.1 So-lar Access do not require analysis for the mid summer condition, this modelling has been undertaken and is included at right for information.

As illustrated on the images to the right, the proposal has minimal solar impact to 50 Murray Street between 9.00am and 3.00pm. Impact is limited to the balconies to the south of 50 Murray Street with the edges of these balconies maintaining 2 hours of direct solar access.



Image 141 Solar analysis of 50 Murray Street: Existing 21 Dec





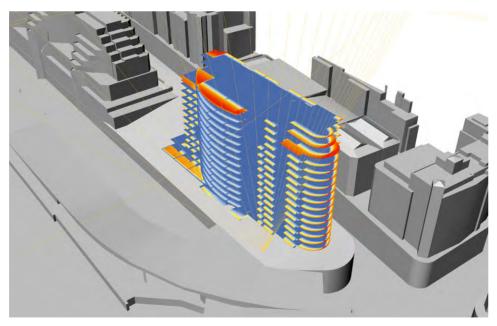


Image 139 Solar analysis of 50 Murray Street: Existing with floorplates only for clarity 21 Dec

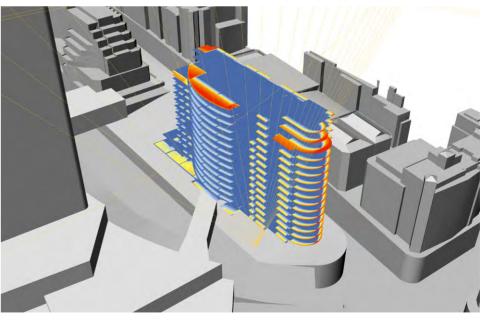


Image 140 Solar analysis of 50 Murray Street: Proposed with floorplates only for clarity 21 Dec

Image 142 Solar analysis of 50 Murray Street: Proposed 21 Dec

Appendices

A - Architectural

i) Envelope

ii) Illustrative Concept Plan

iii) Shadow Studies

iv) Compliance

mirvac harbourside stage 1 da

Appendix A - Architectural

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STAGE 1 DA HARBOURSIDE

STAMP PLANS

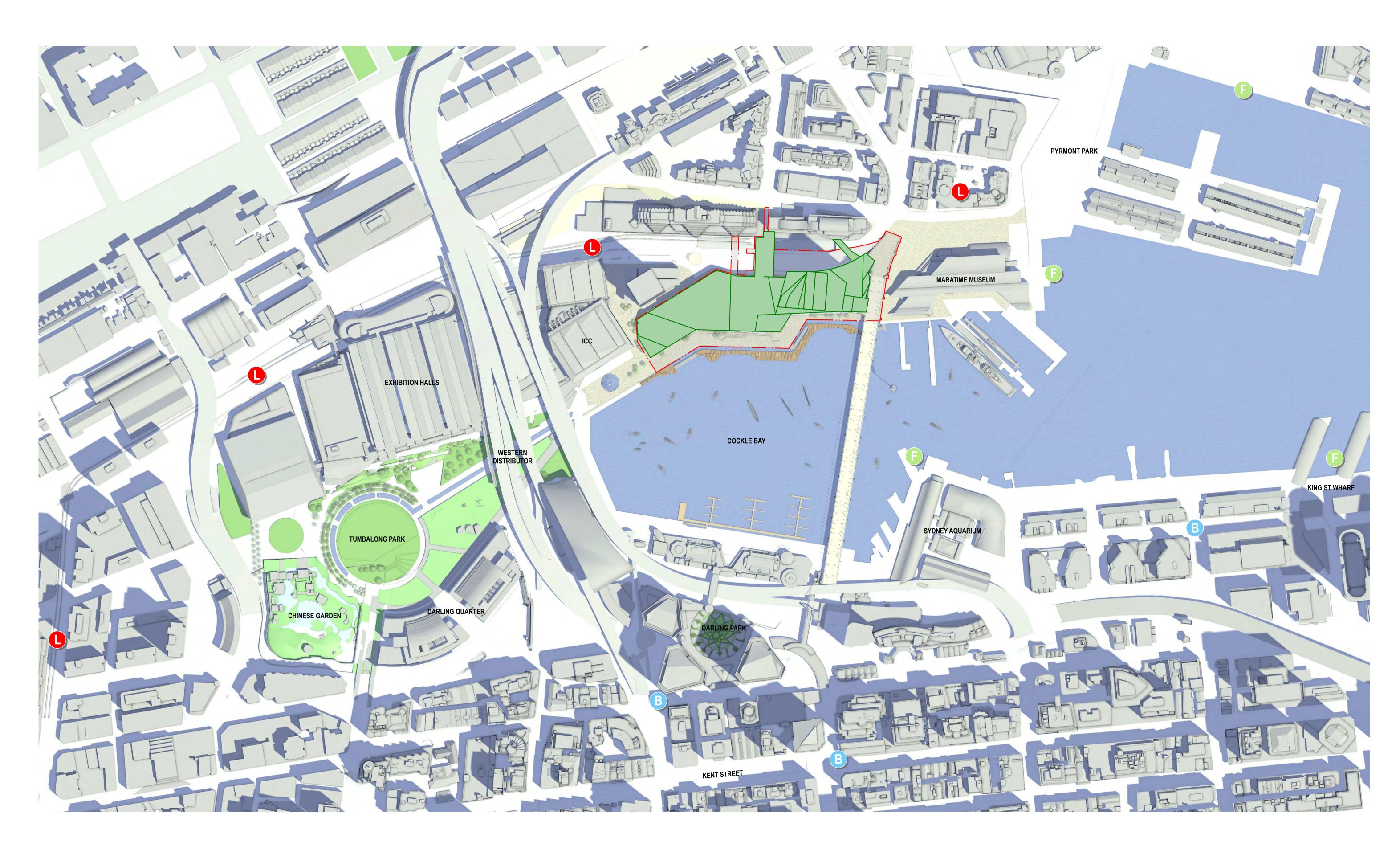
SSDA1-000 Cover Page.pdf
SSDA1-001 Location Plan.pdf
SSDA1-002 Context Plan.pdf
SSDA1-003 Site Analysis.pdf
SSDA1-004 Existing Site Plan.pdf
SSDA1-100 Envelope Plan - Podium.pdf
SSDA1-101 Envelope Plan - Tower.pdf
SSDA1-102 Envelope Plan - Basement.pdf
SSDA1-103 Envelope East Elevation.pdf
SSDA1-104 Envelope West Elevation.pdf
SSDA1-105 Envelope Cross Sections.pdf
SSDA1-200 Demolition Plan - Existing Harbourside &

Illustrative Scheme

SSDA1-300 Indicative Plan Only - B2.pdf
SSDA1-301 Indicative Plan Only - B1.pdf
SSDA1-302 Indicative Plan Only - Ground Floor Reta
SSDA1-304 Indicative Plan Only - Level 1 Retail.pdf
SSDA1-305 Indicative Plan Only - Level 2 Retail.pdf
SSDA1-306 Indicative Plan Only - Level 3 Retail.pdf
SSDA1-307 Indicative Plan Only - Level 4 Retail.pdf
SSDA1-308 Indicative Plan Only - Level 5 Communal
SSDA1-310 Indicative Plan Only - Typical Tail 1 (L1 &
SSDA1-311 Indicative Plan Only - Typical Tail 2 (L3).p
SSDA1-312 Indicative Plan Only - Typical Tail 3 (L4-6
SSDA1-313 Indicative Plan Only - Typical 1B + Tail (L
SSDA1-314 Indicative Plan Only - Typical 1B (L7, L13
SSDA1-315 Indicative Plan Only - Typical 2B (L18-32
SSDA1-316 Indicative Plan Only - Typical 3B (L33-37
SSDA1-317 Indicative Plan Only - Penthouse (L38).pd
SSDA1-318 Indicative Plan Only - Penthouse (L38 Me
SSDA1-319 Indicative Plan Only - Roof Plan.pdf
SSDA1-320 Indicative Elevation Only - East.pdf
SSDA1-321 Indicative Elevation Only - West.pdf
SSDA1-322 Indicative Plan Only - Section (23.1).pdf
SSDA1-400 Shadow Analysis - Winter Solstice - 21st
SSDA1-401 Shadow Analysis - Winter Solstice - 21st
SSDA1-402 Shadow Analysis - Winter Solstice - 21st
SSDA1-403 Shadow Analysis - Winter Solstice - 21st
SSDA1-404 Shadow Analysis - Equinox - 21st of Sep
SSDA1-405 Shadow Analysis - Equinox - 21st of Sep
SSDA1-406 Shadow Analysis - Equinox - 21st of Sep
SSDA1-407 Shadow Analysis - Equinox - 21st of Sep
SSDA1-408 Shadow Analysis - Summer - 21st Dec 9-
SSDA1-409 Shadow Analysis - Summer - 21st Dec 17
SSDA1-410 Shadow Analysis - Summer - 21st Dec 1-
SSDA1-411 Shadow Analysis - Summer - 21st Dec 3p
SSDA1-420 Shadow Analysis - Perspective - Winter S
SSDA1-421 Shadow Analysis - Perspective - Equinox
SSDA1-422 Shadow Analysis - Perspective - Summe
SSDA1-500 Amenity Diagrams - Solar Access.pdf
SSDA1-501 Amenity Diagrams - Natural Ventilation.pd
SSDA1-502 Amenity Diagrams - South Facing.pdf

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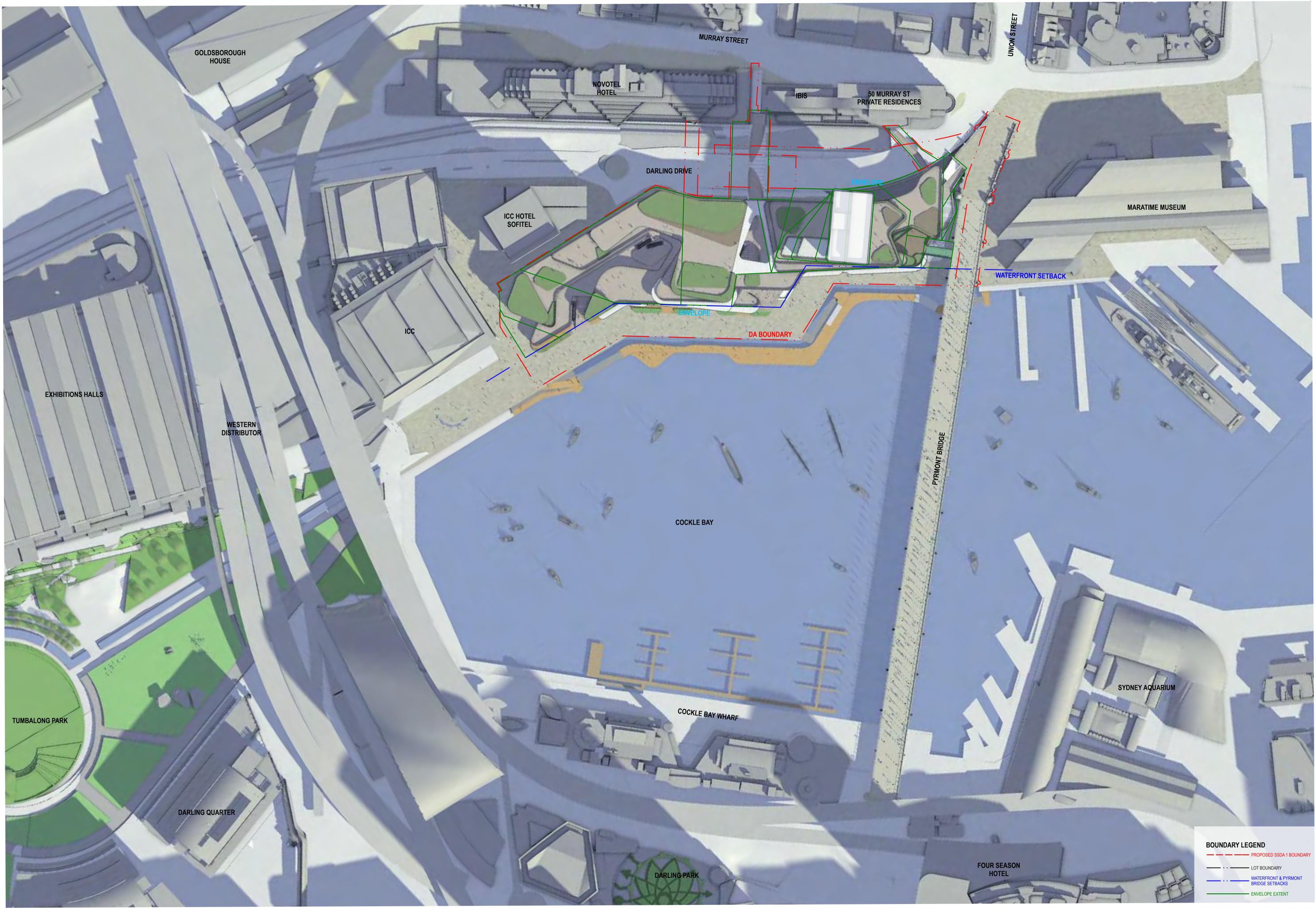


BOUNDARY LEGEND



WATERFRONT & PYRMONT BRIDGE SETBACKS ------ ENVELOPE EXTENT

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