# PLANNING PROPOSAL 2 WILSON STREET & 849-859 PACIFIC HIGHWAY CHATSWOOD | 06 NOV 2020 | REVISION A





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# INTRODUCTION

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## **PROJECT SUMMARY**

#### 1. Project Summary

PBD Architects has been engaged by Sanctuary Partners on behalf of 853 Pacific Highway Pty Ltd. to provide an Urban Design Study in support of a Planning Proposal for 2 Wilson Street & 849-859 Pacific Highway, Chatswood.

The purpose of this document is to provide analysis of the urban context, current and future planning objectives for the site and investigate the potential for what a built-form might take.

The built-form proposal has led to a building envelope which is in keeping with Willoughby Council's "Chatswood CBD Planning and Urban Design Strategy" ("Chatswood Strategy"), desired future context and ADG principles of design.

#### 2. Site location And Statistics

The site is located at 2 Wilson Street & 849-859 Pacific Highway, Chatswood. The site currently contains a number of three and four storey walk up residential flat buildings.

The area to the west is typically modest residential building construction, as is the area to the north (although this will increase under the Strategy). The area to the south increases in bulk and scale significantly, with a neighbouring 90m residential tower.

The site is approximately 400 metres walking distance from Chatswood Railway Station. It is highly accessible to nearby services and social infrastructure being the proposed northern tip of the expanded Chatswood CBD.

The broad objective of this proposal is to indicate how residential uplift can be achieved for this site in accordance with Council's "Chatswood Strategy", resulting in an increase to the maximum permissible FSR and maximum permissible building height.

LOCATION: 2 Wilson Street & 849-859 Pacific Highway, Chatswood **SITE AREA:** 3,166 m<sup>2</sup> TARGET FSR: 6:1 (1:1 Commercial & 5:1 Residential) **TARGET HEIGHT:** 90 metres



## INTRODUCTION

#### 3. Site opportunities

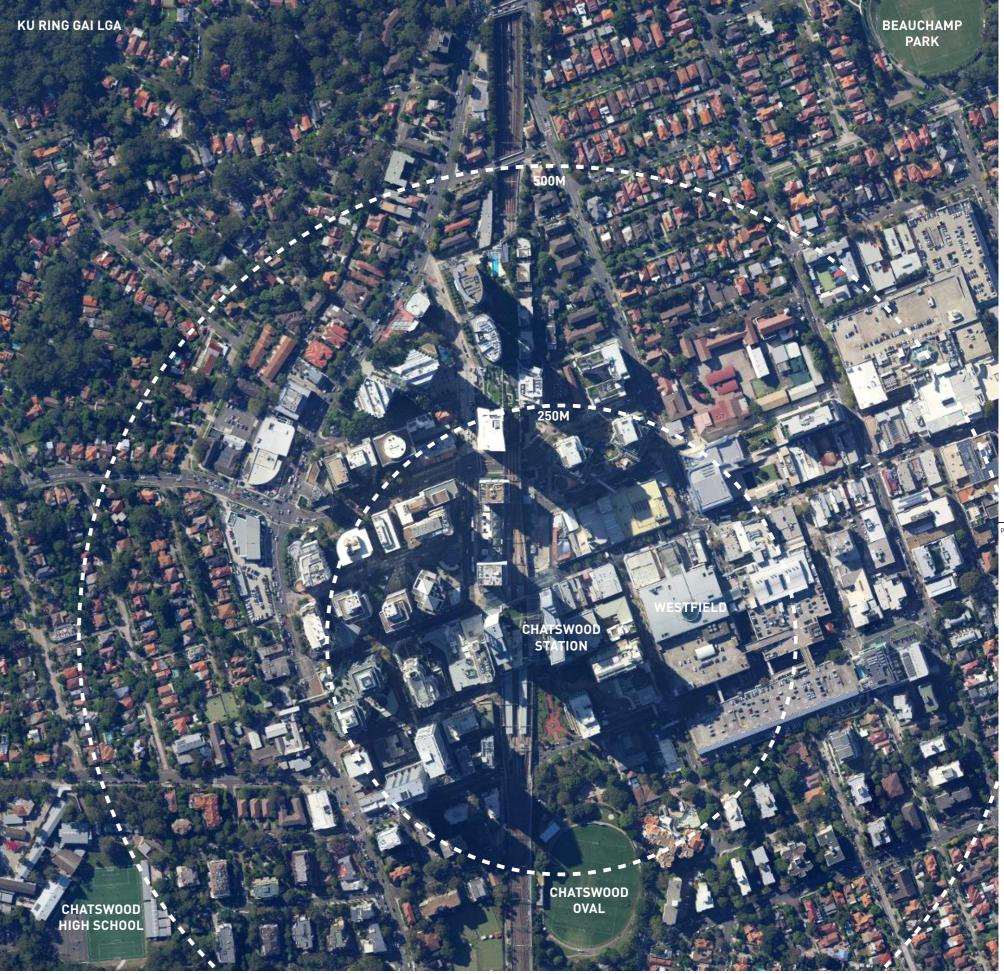
This proposal explores the opportunities and constraints of the site, including:

- The significant size of the site
- The site has three frontages Pacific Highway, Wilson Street, O'Brien • Street
- Creating a gateway development for the northern tip of the Chatswood • CBD
- Accelerating the introduction of proposed Development Standards for • the site in line with the Chatswood Strategy
- Appealing to the prominence of the site and the opportunity to provide a sound architectural solution for this highly accessible development site

#### 4. Context

The site is located at the northern tip of the Chatswood CBD with the following relationship to significant urban infrastructure:

- Immediately adjacent to the Pacific Highway
- Approximately 400m north of Chatswood Railway Station •
- Approximately 500m north of Chatswood Westfield Shopping Centre
- Approximately 700m north of Chatswood Public School •
- Approximately 900m north of Chatswood High School •
- Approximately 3km north of Royal North Shore Hospital





## INTRODUCTION

#### 5. Adjacent Sites

The site is bounded by the Pacific Highway to the west, A RailCorp light industrial site and rail line to the east, Wilson Street to the north and O'Brien Street to the south,

The diverging Pacific Highway and Railway line on the Northern fringe of the Chatswood strategic centre creates a wedge shape site structure. The most Northern site (A) fronted by a petrol station has a current lodged Planning Proposal.

The subject site is adjacent to RailCorp's light industrial facility (C) to the east.

The southern neighbouring Mirvac site comprises two high rise residential towers at 7:1 FSR and partially constructed over the rail line.



Planning Proposal Site

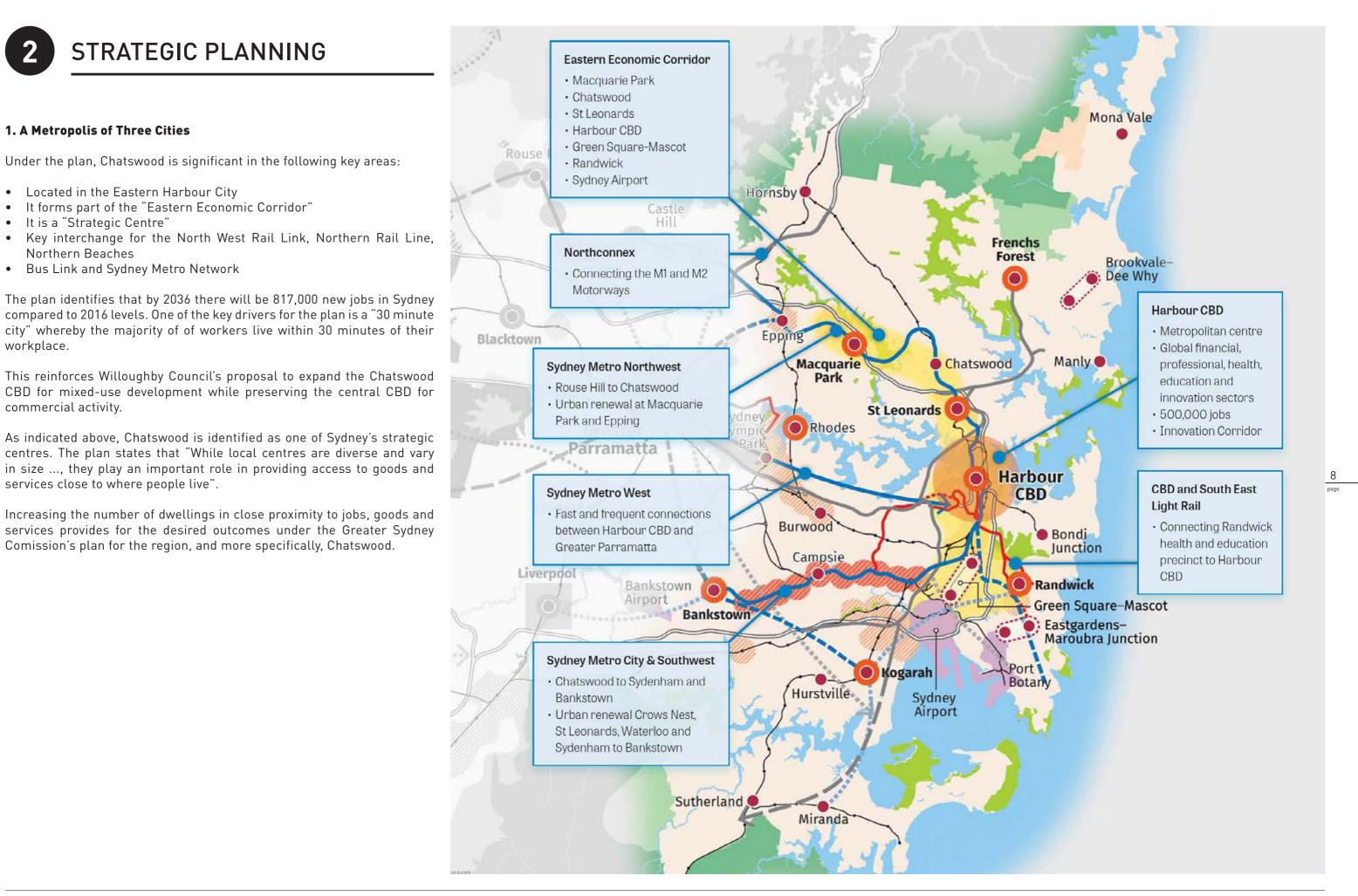
Key Neighbours





## STRATEGIC PLANNING 2





### STRATEGIC PLANNING

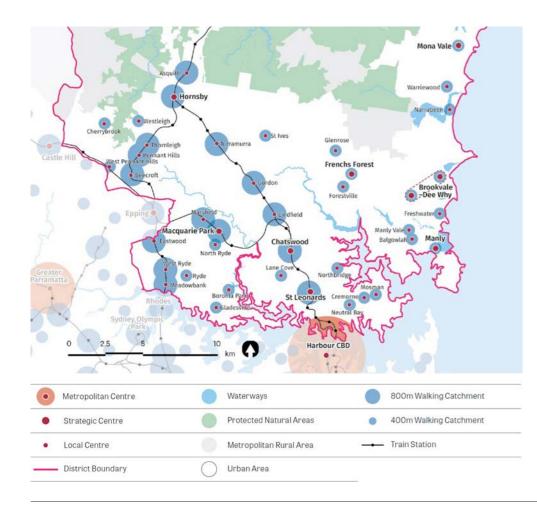
#### 2. North District Plan

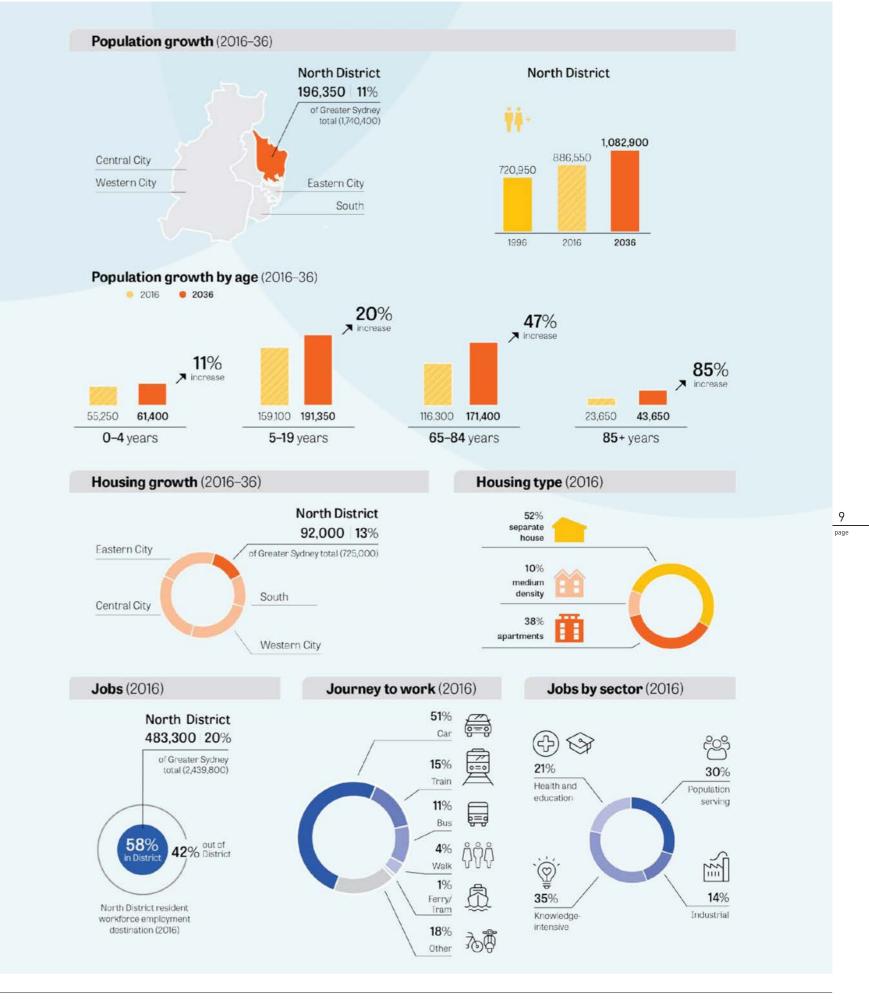
The North District Plan identifies the following key statistics for the growth of this important Sydney Region:

Additional 92,000 dwellings in the district, representing an increase of over 20% on 2016 levels Willoughby Council to deliver 1,250 additional dwellings by 2021 and increase employment from 24,700 jobs (2016) to between 31,000 and 33,000 jobs by 2036.

In addition to being a centre for employment and increased housing, Chatswood is identified as a major shopping precinct with distinct dining/ night-life and street-life characters. The plan notes that "Delivering housing within a walkable distance of strategic centres encourages nonvehicle trips, which foster healthier communities."

Furthermore, "to deliver the 20-year strategic housing target, councils should recognise opportunities for long-term housing supply associated with city-shaping transport corridors".





MASTERPLAN ANALYSIS | North district plan NTS - sizes in mm

#### 3. Chatswood CBD Planning & Urban Design Strategy (September 2020)

The revised Chatswood Strategy was fully endorsed by the Department of Planning, Infrastructure and Environment and proposes the expansion of the Chatswood CBD to the north and to the south as indicated in the figure to the right.

Apart from expanding the CBD, the key recommendations of the strategy are as follows:

• Promoting office growth and a diverse mix of uses

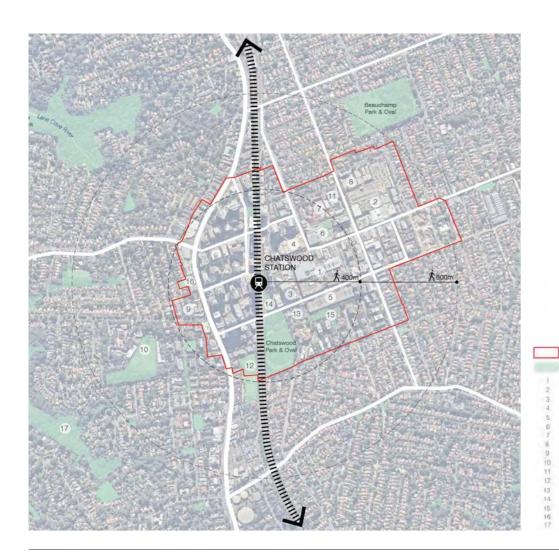
• Rezone the majority of the expanded areas for mixed-use development to encourage residential development adjacent to the commercial core

- Allow for increased maximum FSR
- Increased heights in the expanded CBD areas

• Preservation of solar access to key public spaces within the CBD

• Establish street frontage heights and setbacks to provide consistency in the urban form

• Minimum site size of 1,200m2 for residential development within the CBD



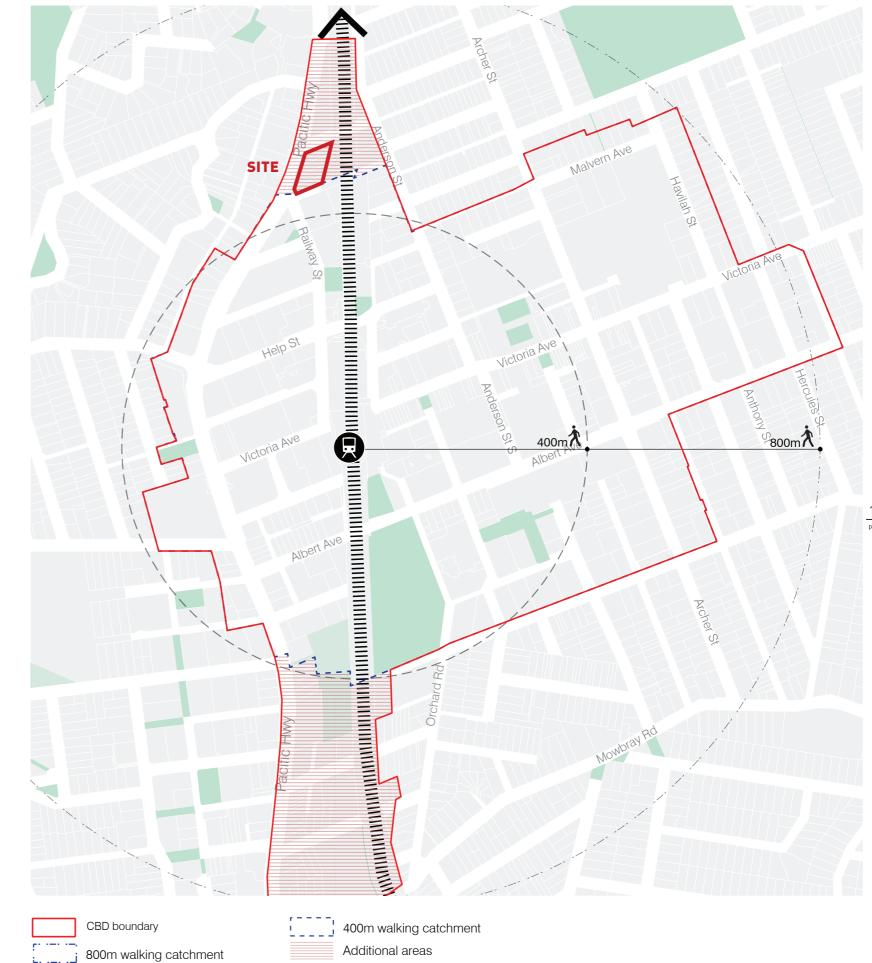
Centre boundar Open space lestfield

Chatswood Chas Mandarin Centre Lemon Grove Westfield Carpari The Concourse St Plus X College Mercy College Chatswood Public School Chatswood High School

Our Lady of Dolours Chatswood Bowling Club

Currey Park Kenneth Slessor Park Chatswood Golf Club

Chatswood Youth Centre Garden of Rememberance

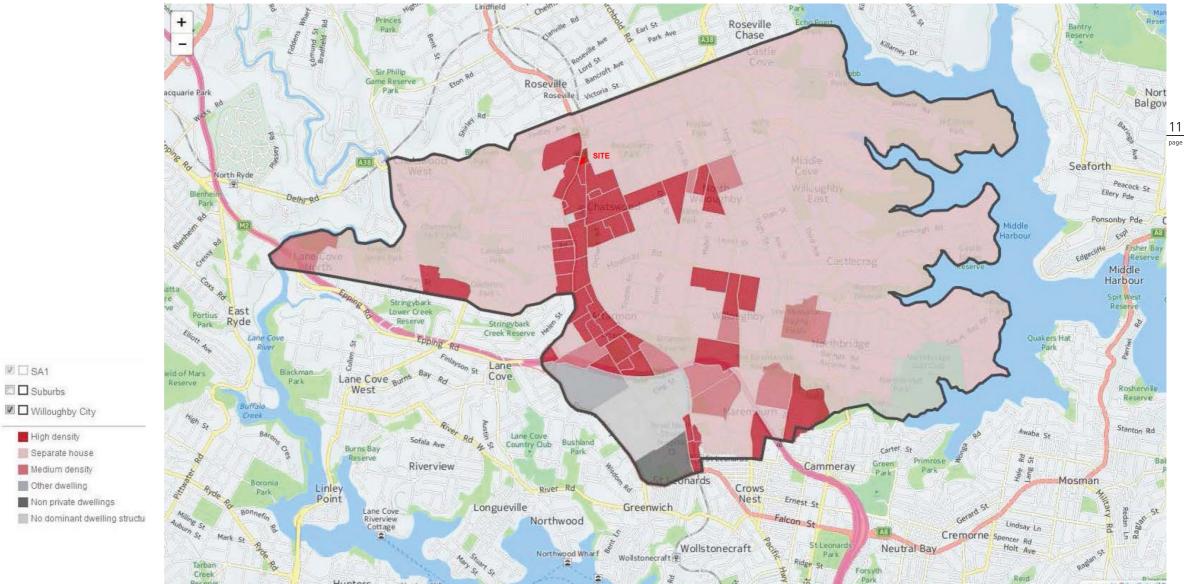


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#### 4. Willoughby Housing - Position Statement

The principles underpinning the position statement are:

- Provide sufficient and well-designed housing for the next 20 years.
- Provide for a mix of housing types to suit various community needs including affordable housing.
- Focus new housing growth in larger centres and areas of medium and high density with access to public transport to protect lower density neighbourhoods.
- Promote community health and wellbeing by locating new housing within walkable access (400m) to transport and other local services and amenities.
- Respect and promote the heritage and environmental qualities of WCC in planning for new housing.



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## PLANNING CONTROLS 3





#### **1. Existing Controls**

Under Willoughby LEP 2012, development on the site is subject to the below controls.



Figure 3.1 Zoning map (source: Willoughby LEP 2012) Zoning: S1 - R4-High Density Residential



Figure 3.2 Floor space ratio (source: Willoughby LEP 2012) Current FSR: S1 - 1.5:1

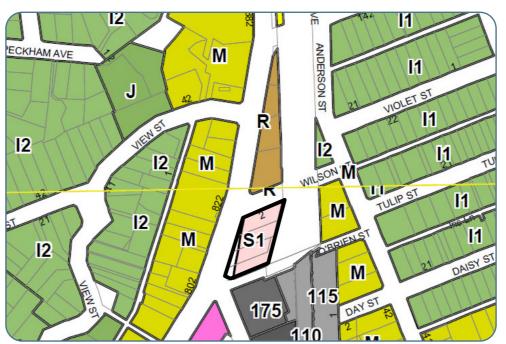


Figure 3.3 Height map (source: Willoughby LEP 2012) Current Height: S1-24m

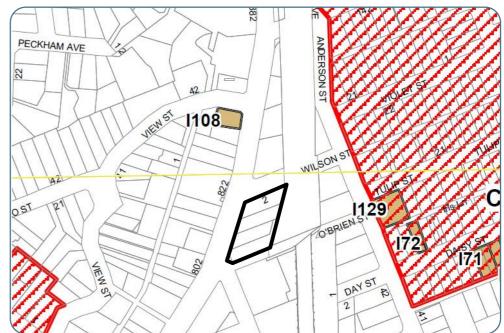


Figure 3.4 Heritage r Heritage: N/A

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Figure 3.4 Heritage map (source: Willoughby LEP 2012)

#### 2. Chatwood CBD Planning & Urban Design Strategy Proposed Controls

Under the Chatswood Strategy, development on the site is subject to the below controls.



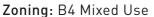
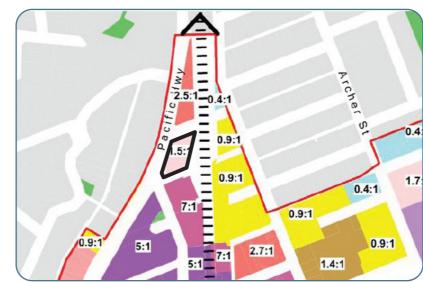


Figure 3.1.2 Zoning map (source: Chatswood CBD planning & urban design strategy 2036)



Base FSR: 1.5:1



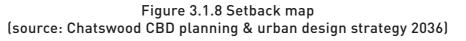


Maximum Height: 90m

Figure 3.1.6 Maximum height map (source: Chatswood CBD planning & urban design strategy 2036)



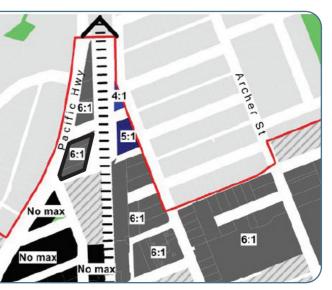
Pacific Highway & mixed use setbacks











Maximum FSR: 6.0:1

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#### Figure 3.1.4 Maximum FSR map (source: Chatswood CBD planning & urban design strategy 2036)

- Victoria Ave retail frontage
- max 7m street wall, min 6m setback
- max 24m street wall, min 6m setback
- 4-12m street wall, min 6m setback
- Mixed use frontage with commercial
- 6-14m street wall, min 3m setback
- Mixed use frontage with residential
- 3m setback to ground level, 6-14m
- street wall, min 3m setback above
- Pacific Hwy frontage min 4m setback at ground with exceptions around heritage sites max 7m street wall, min 6m setback above street wall Southern precinct min 6m setback from street to building form, no setback from podium to tower required Albert Ave south min 3m setback from street to building with intermittent wider open space, max 24m street wall. 3m setback from podium to tower form required

## SITE ANALYSIS

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#### 1. Context

#### North of the site:

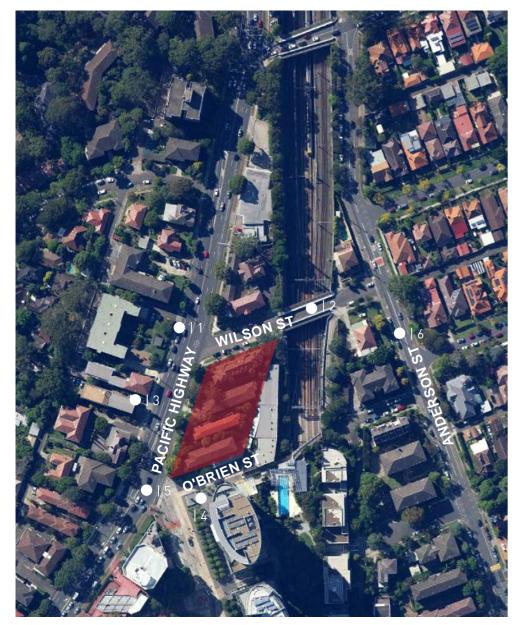
• Wilson Street

#### West of the site:

• Pacific Highway

#### South of the site:

• O'Brien Street



Context Map



● | 1. PACIFIC HIGHWAY











● | 4. O'BRIEN STREET

● | 5. O'BRIEN STREET



● | 6.ANDERSON STREET

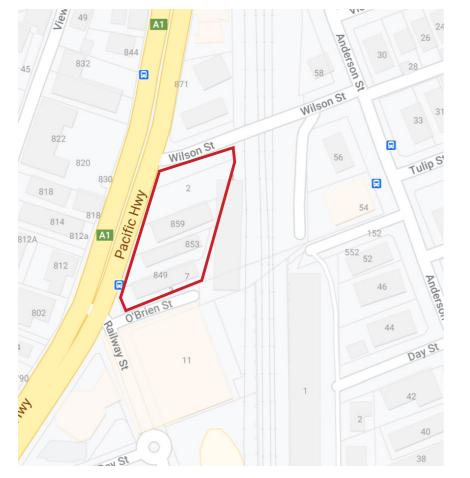
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#### 2. Transport

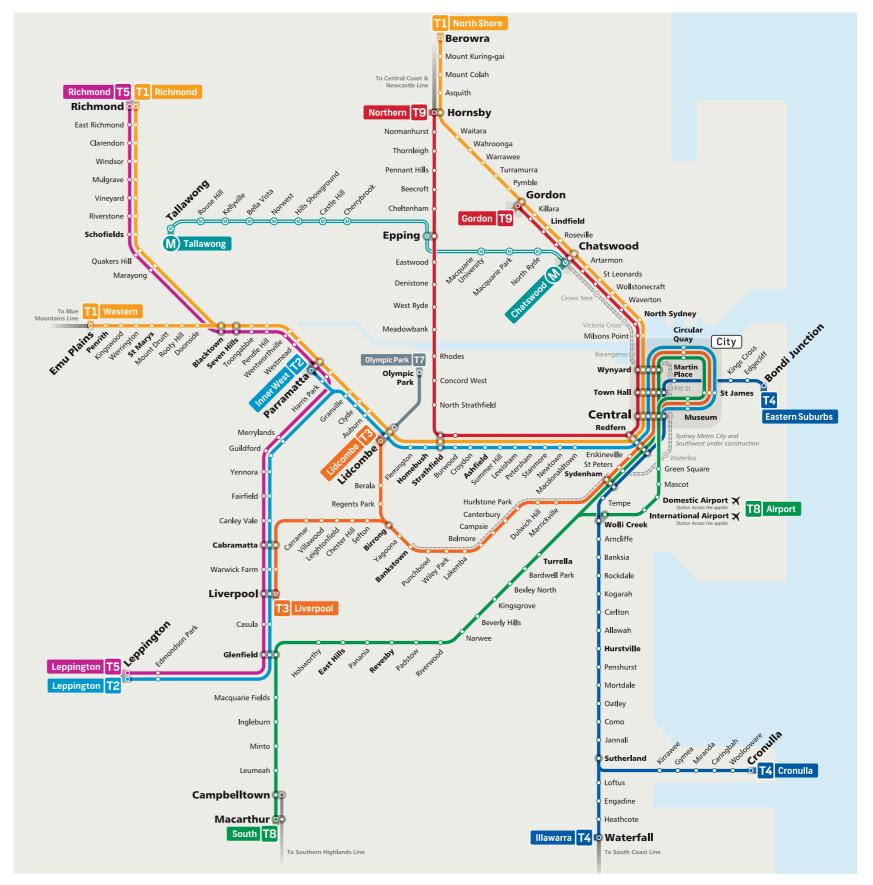
The site is ideally located to take advantage of public transport. Numerous bus stops with diverse routes are available on both sides of Pacific Highway within 100m of site.

At a distance of approximately 400m, the site is also well within the 800m walking catchment of Chatswood Railway Stations. This station is one of Sydney's primary rail network interchanges and will have increased significance into the future as the Sydney Metro network continues to roll out.



#### Bus Stop Map





**Rail Network Map** 

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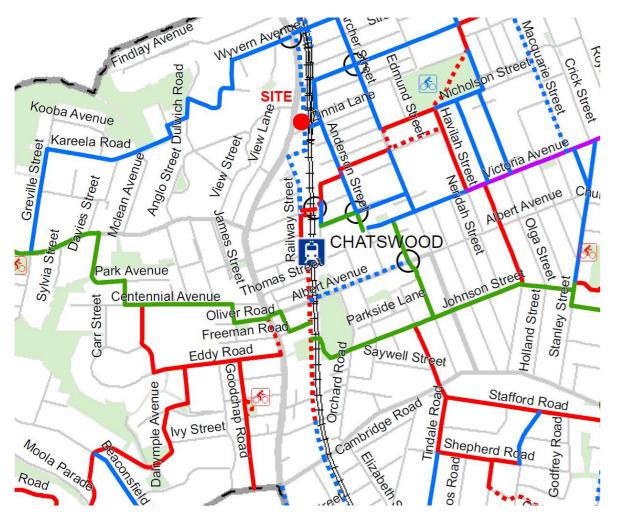


#### 3. Cycleways & Pedestrians

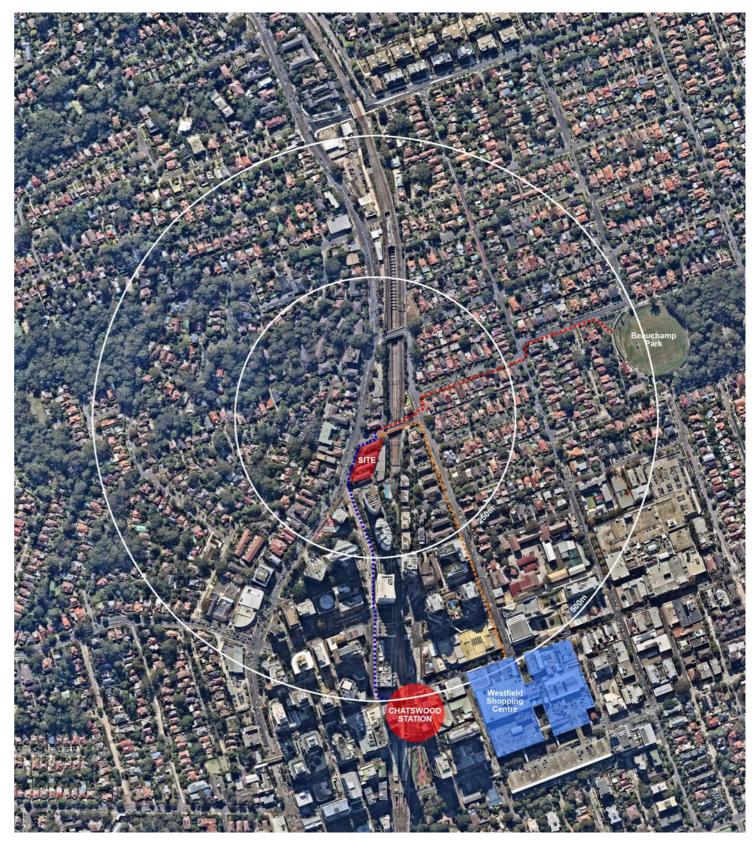
In addition to access to public transport, the site is also connected to Willoughby Council's proposed Bicycle Network (Figure 4.15). The proposed off-road link running past the site stretches along the train line. The on-road network also extends east into the low scale residential precint of Chatswood from the site at Wilson Street.

Pedestrian accessibility is assured with relatively flat footsteps along both street frontages. The footpath on Wilson Street provides a safe crossing to the south, in the direction of the station. There are very few road crossings to be negotiated on the way to the train station which is best described as gentle descent.

The site is also in good proximity to the major shopping centre area and also to Beauchamp park as evidenced in Figure 4.16.



Willoughby Proposed Cycleways Map (Source: Willoughby Council)



Significant pedestrian routes from the site

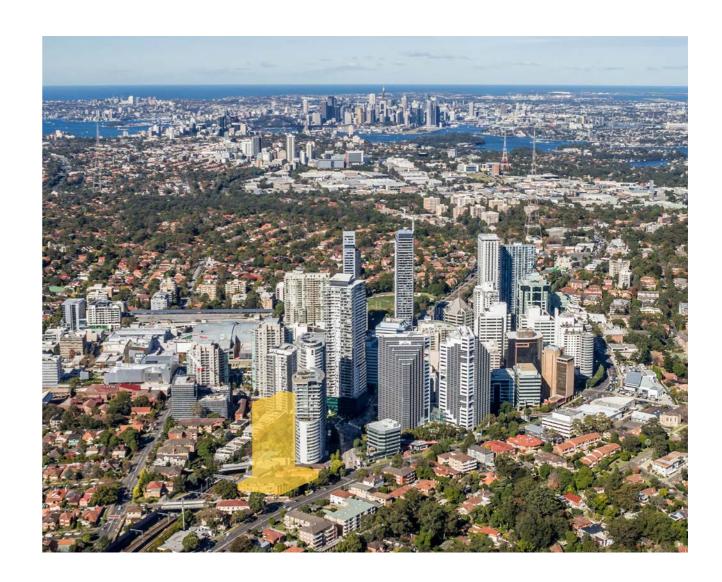


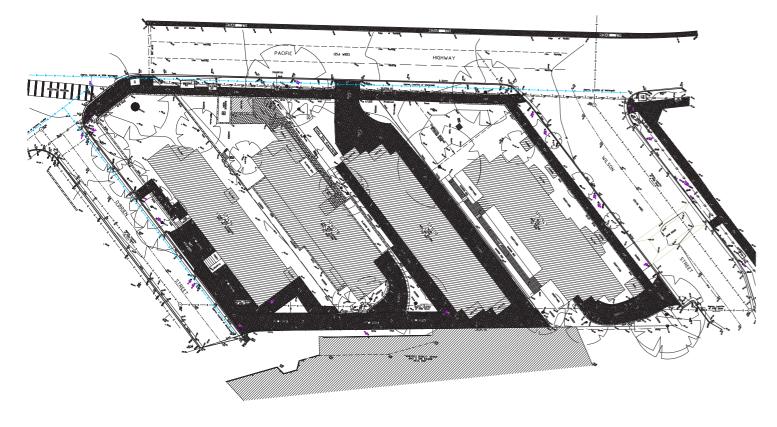
#### 4. Topography

The site is located in an area of Chatswood that is slightly elevated above the CBD core levels, but typical footpath grades are below 1:14.The existing site generally falls from north to the south. There is 1.98m fall to the south along the Pacific Highway frontage, and 1.46m fall to the west along the O'Brien Street frontage.

#### 5. Solar Access & Impacts

The sub-division pattern of this part of Chatswood results in good solar "sharing". By vitue of the lots to the north and south being almost directly aligned towards the north means that, even with tall buildings on each lot, each site receives good solar access in the early morning and the later afternoon. With the presence of the railway line to the east and the wide Pacific Highway to the west, there are no structures in these areas contributing to overshadowing. This is likley to persist into the future even with changes to the planning controls consistent with Council's CBD Strategy. Given the location of the site with 3 street frontages in close proximity to the railway, there is no significant overshadowing of this site or adjacent sites.







#### 6. Traffic and Access

The site is bounded by the Pacific Highway, O'Brien Street and Wilson Street. Vehicular access to the sites currently consists of 1 driveway off Wilson Street, 1 driveway off Pacific Highway and 1 shared driveway off O'Brien street. Given the intensity of the traffic on the Pacific Highway in this area, it is anticipated that vehicular access will be restricted to Wilson Street and O'Brien Street avoiding queuing impacts on the Pacific Highway. The exisiting driveway off Pacific Highway will be removed as part of the proposal, which will have a material beneficial impact to Pacific Highway.

In any future Development Proposal, the queing distance from any driveway(s) back to the Pacific Highway will need to be considered. In principal it is anticipated that driveway entrances will be located along O'Brien Street and Wilson Street. The wider area is serviced by Pacific Highway, a major highway that links to greater Sydney providing residents and workers with easy access to Chatswood and the subject site.

Movement within the precinct prioritises vehicular access with limited permeability for pedestrians. The subject site is well connected to the road network and is in close proximity to Lane Cove Tunnel which connects to Sydney CBD and Hills District to the northwest.

Basement access into surrounding buildings are from local roads, and lanes wherever possible.



Pacific Highway & O'Brien Street intersection

#### Key

Project Boundary
 Primary Roads
 Secondary Roads



#### 7. Views To and From Site

The site is in an enviable location for views. Given its location at the proposed northern tip of the CBD expansion area, the site is likley to command views to the north, east and west. Whilst the site to the north may one day be developed, the slender built form requirement would ensure views would still be retained to the north-east and north-west, with impressive view lines to Manly and the Blue Mountains. Views to the south will be obstructed to the distance, however south-easterly view lines to the city and Chatswood CBD are highly desirable. In addition to having commanding views from the site, the landmark location for the site lends itself to providing a key marker for the northern tip of the Chatswood CBD. The building will announce the arrival at Chatswood to drivers heading south along the Pacific Highway.





#### 8. Future Context

In analysing the future potential of the subject site we must inevitably consider both the existing character and scale of development in the area along with the likely future scale of the context as well.

The area to the south east of the subject site is within the 'core' of the centre, which will be major retail and office uses. These areas are part of the Council wide growth projections outlined in Chatswood Strategy.

The site to the north, a planning proposal has been submitted in line with the Chatswood Strategy.

The site to the east, currently sits a 2 storey light industrial building. This adjoining RailCorp site is taken into consideration due to the proximity to subject site. Even though this site is not identified in the Chatswood Strategy, the Built-Form Concept section of this study will include demonstrations of the future viability of this site.





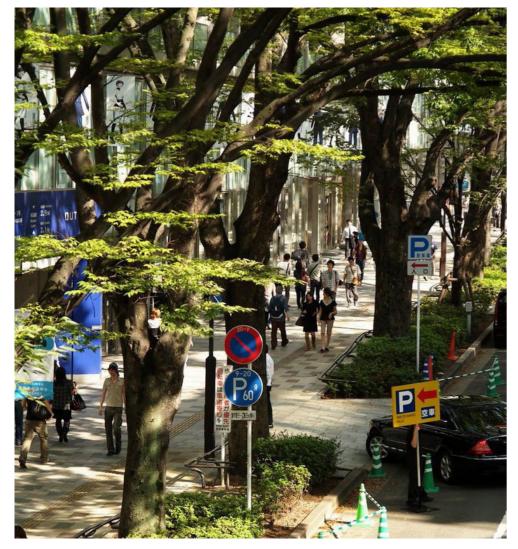
## BUILT FORM CONCEPT 5



5

#### 1. Setback Analysis - "Chatswood CBD Urban Design Strategy 2036"

In this section of the Urban Design Study, we will be investigating the potential outcome for the subject site. This investigation will be based principally on adopting the proposed development controls outlined in Willoughby Council's "Chatswood CBD Planning & Urban Design Strategy 2036". This will not only include controls of FSR and Height but will also include the more detailed controls for setbacks included in the Chatswood Strategy. We recognise that the strategy is not only aiming to provide for the future growth of the area by dictating the overall scale, it also aims to provide a consistent urban profile that is more human in scale and provides a specific relationship to street level. The diagram to the right shows the strategy's proposal for setbacks along the eastern side of the Pacific Highway.



'CHATSWOOD CBD STRATEGY 2036' - Proposed streetscape character

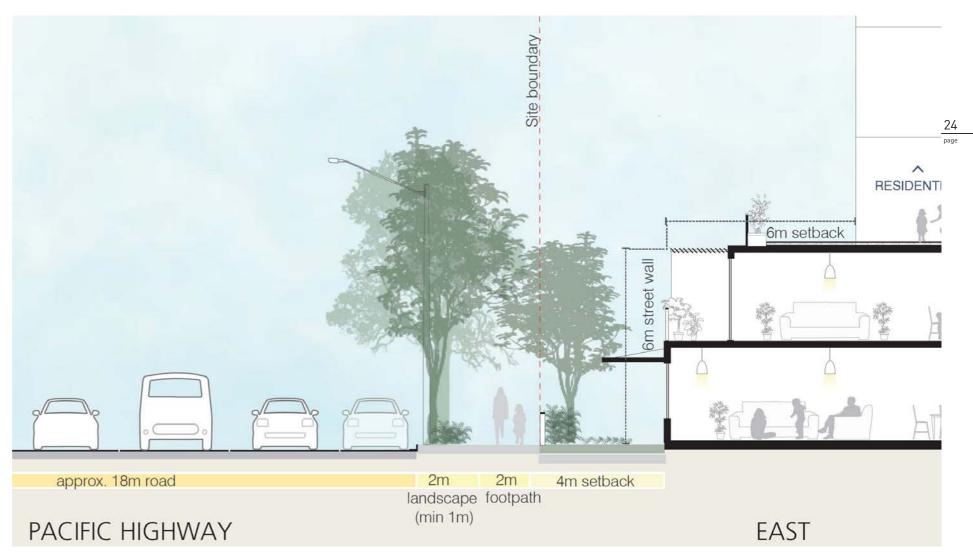


Figure 2.2.4 'CHATSWOOD CBD STRATEGY 2036' - Green setback

#### 1. Setback Analysis - RailCorp site current condition

Detailed analysis has been provided on the potential to redevelop Railcorp site as part of this urban design report.

The existing zoning on RailCorp's site is SP2 Infrastructure, and the objectives of this zoning is to provide for infrastructure and related uses that won't detract from the provision of that infrastructure. This site is not identified in the Chatswood Strategy.

The existing structure is a two storey light industrial facility with a 13m frontage to O'Brien Street as the primary entrance. The site area is c.1,595m2 and is not isolated by the subject Planning Proposal. Given the current structure is ancillary, compatible and does not detract from the provision of infrastructure, it is reasonable to assume the continued use and operation for the foreseeable long term future.









#### 1. Setback Analysis - RailCorp site analysis

Following detailed site analysis the key considerations are:

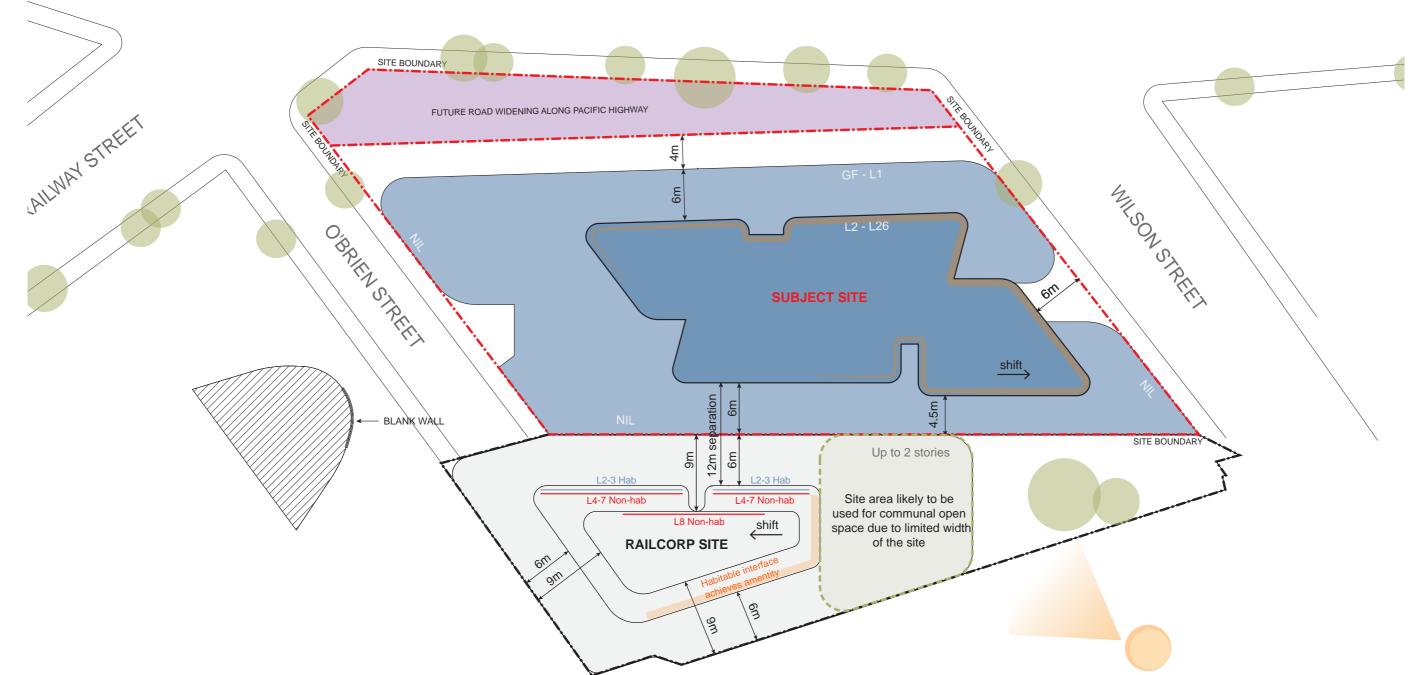
- Solar access and amenity
- Proximity to the rail line
- Limited street frontage and access
- Potential rezoning and change of use
- Irregular lot shape that continually tapers north
- ADG guidelines
- Willoughby Council's proposed Bicycle Network

Key principles and outcomes were established to maximise any future potential built form (this would involve changing the existing light industrial land use and possibly require rezoning):

- Any future built form will be orientated north and east to achieve solar access and amenity
- Achieves compliance with SEPP 65 and ADG guidelines that may permit up to 9 storeys (subject to feasibility testing and zoning compliance)
- A possible 2 storey podium boundary to boundary (however this would restrict any future public pedestrian/bike access through the site from • O'Brien Street to Wilson Street and would need concession to build hard up against the rail line)
- Excluding Willoughby Council's proposed Bicycle Network

#### PACIFIC HIGHWAY

- or feasibly as a commercial
- ٠



Future built form utilizes the northern and eastern aspect to achieve solar access and amenity

Positioning the bulk upper built form towards the south - given the northern half of site is too narrow to develop compliantly as residential

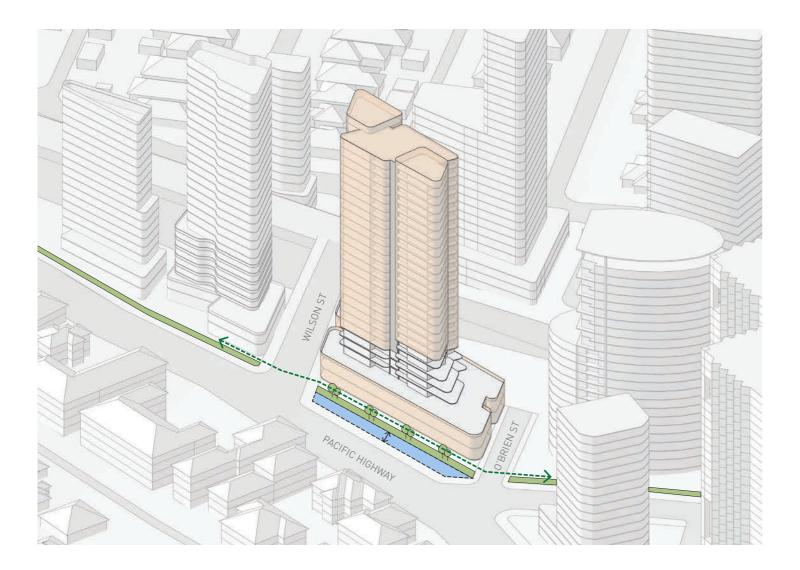
Ability to provide good solar access to the podium level

Ability to provide for communal open space to the north

Potential to provide a high quality public space on the northern end of the site and provide access off O'Brien Street

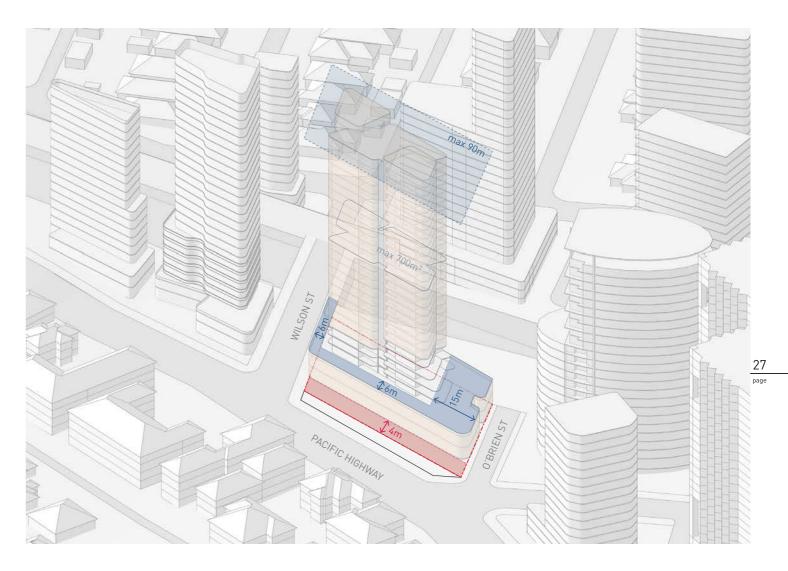






#### Urban Design Streetscape

- 2 storey podium with tower element above
- Road widen zone provided
- 4m setback along Pacific Highway (based on new future road widened street alignment)
- Streetscape improvements along Pacific Highway will beautify the street and increase safety for local residents as well as enhancing connections to the Chatswood CBD

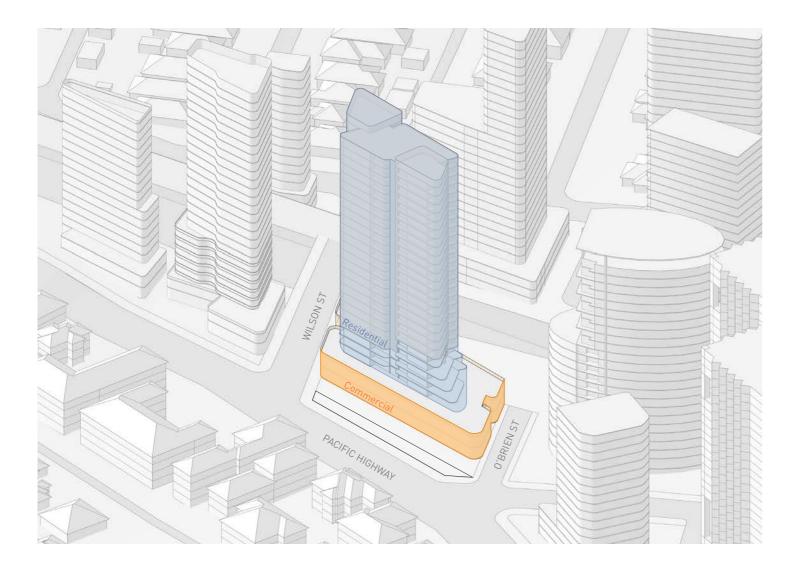


#### Setback and height limit

- Podium: 4m setback along Pacific Highway, 2 storey street wall presentation • Tower: 10m setback from boundary along Pacific Highway, 6m setback from boundary along Wilson Street, 15 m setback from boundary along O'Brien Street, 4.5m-6m setback along rear boundary (adjoining Railcorp site)
- 90m height limit
- Maximum 700m<sup>2</sup> GFA / Plate (proposal 636m<sup>2</sup>)

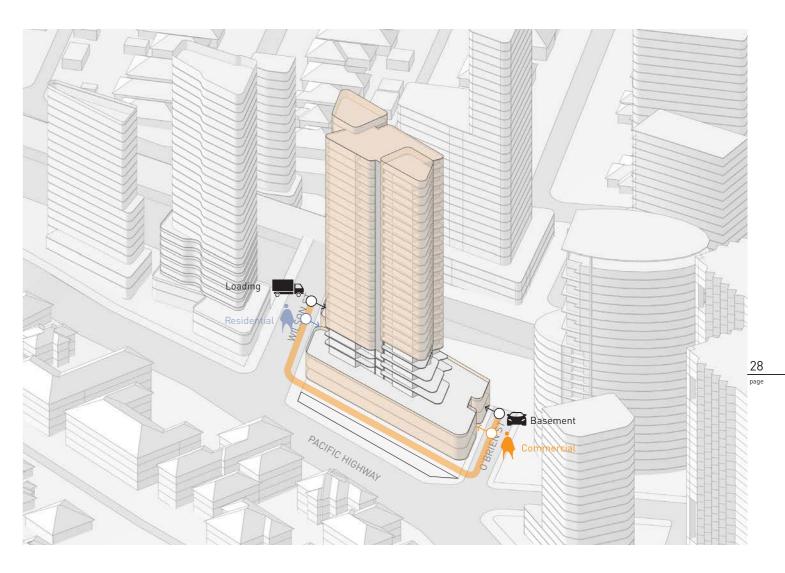






#### Zoning

- 2 storey podium: Commercial
- Tower: Residential

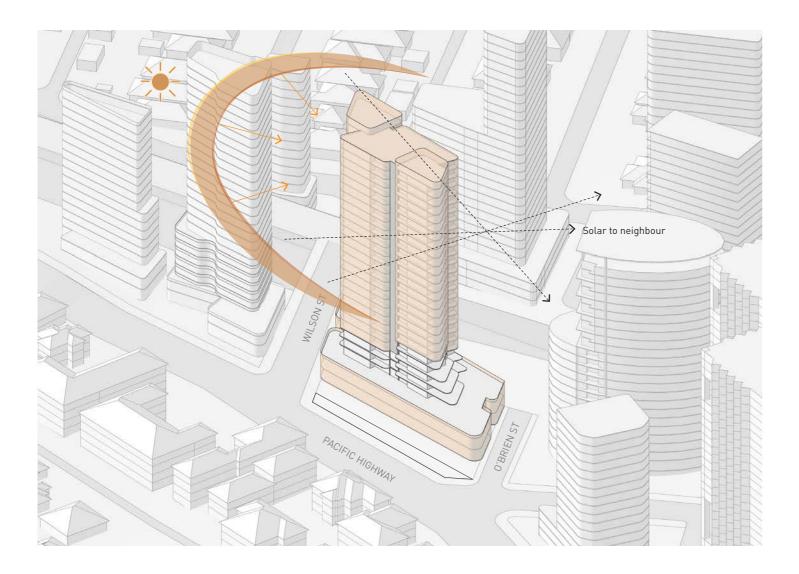


#### Site access

- Primary Vehicular entry points located at the end of Wilson St and O'Brien St, minimising traffic queuing on the Pacific Highway that fronts the subject site.
- Pedestrian access points are separatly located at each end of the site for easy way-finding. Wilson Street for residential access, and O'Brien Street for commerical access.

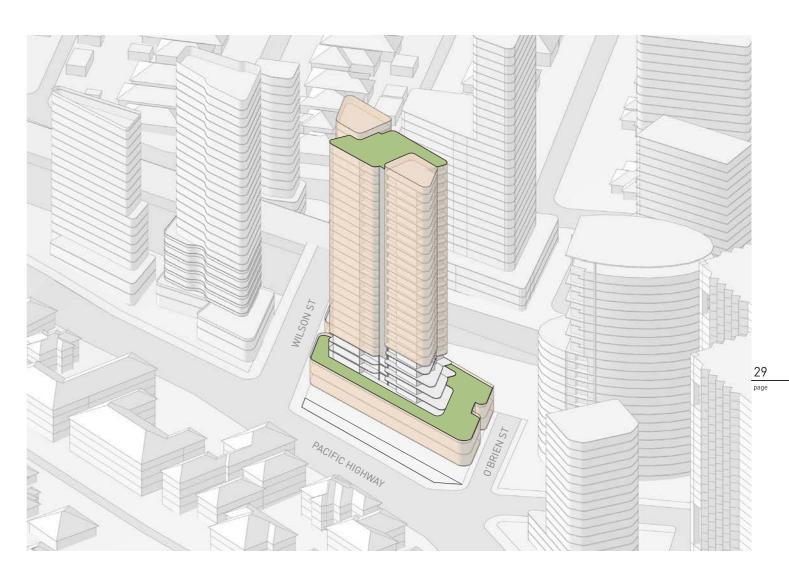






#### Solar access

Units mostly oriented toward North and West for solar compliance. The slender tower form ensures solar penetration to neighbouring dwellings. The proposed development will not diminish the amenity of surrounding context.



#### Landscape

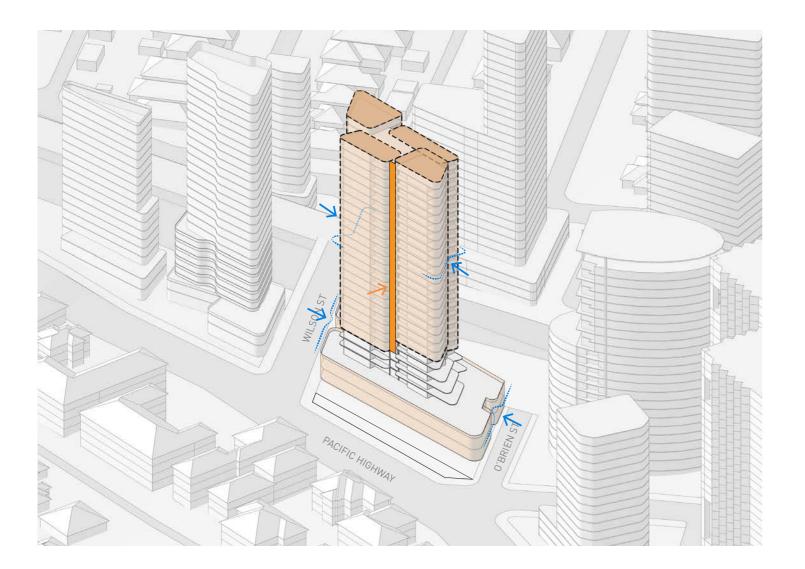
Landscaped area are located on podium level and roof level for below reasons:

- Elevated views
- Buffered noise from Pacific Highway
- Better solar access







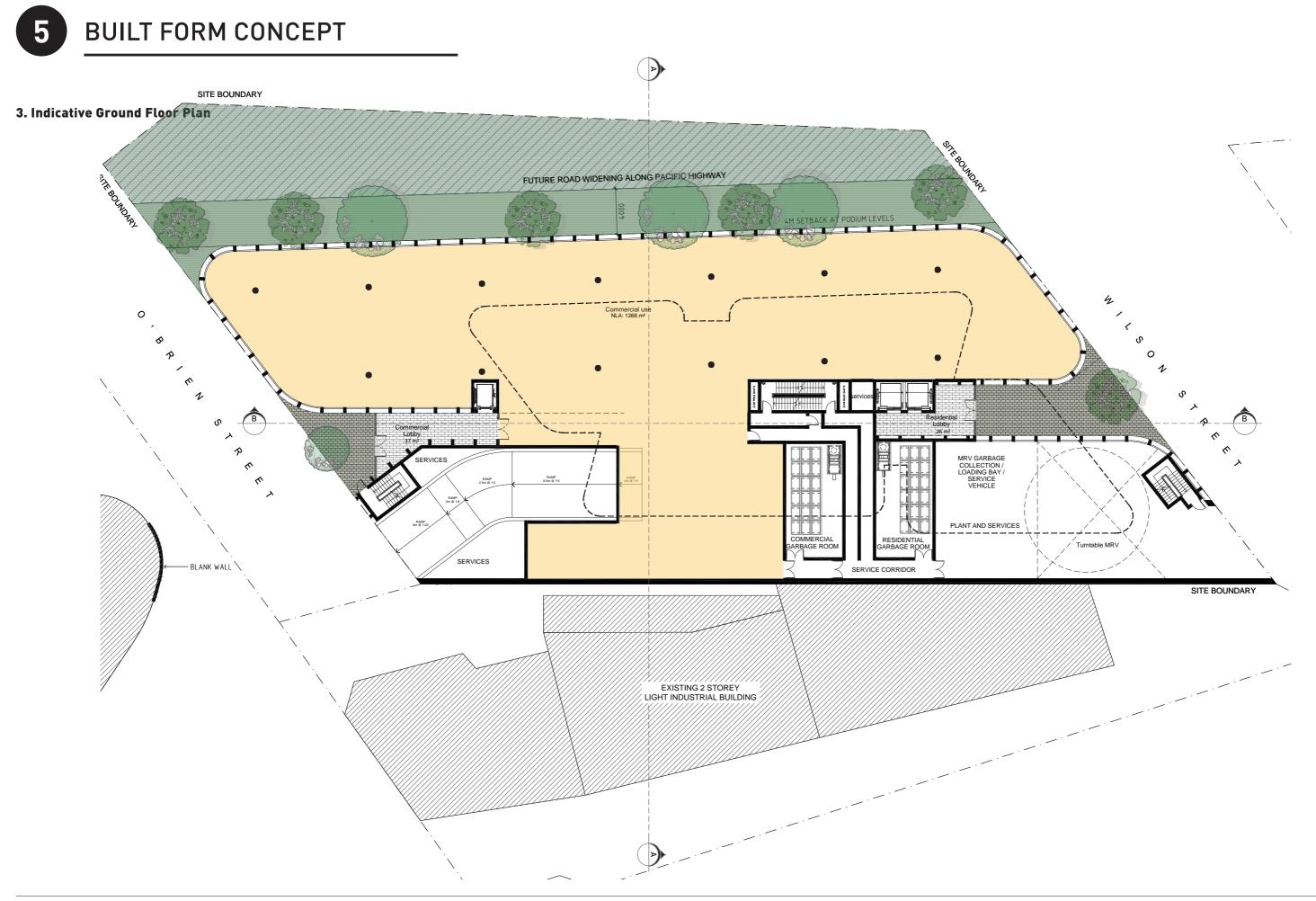


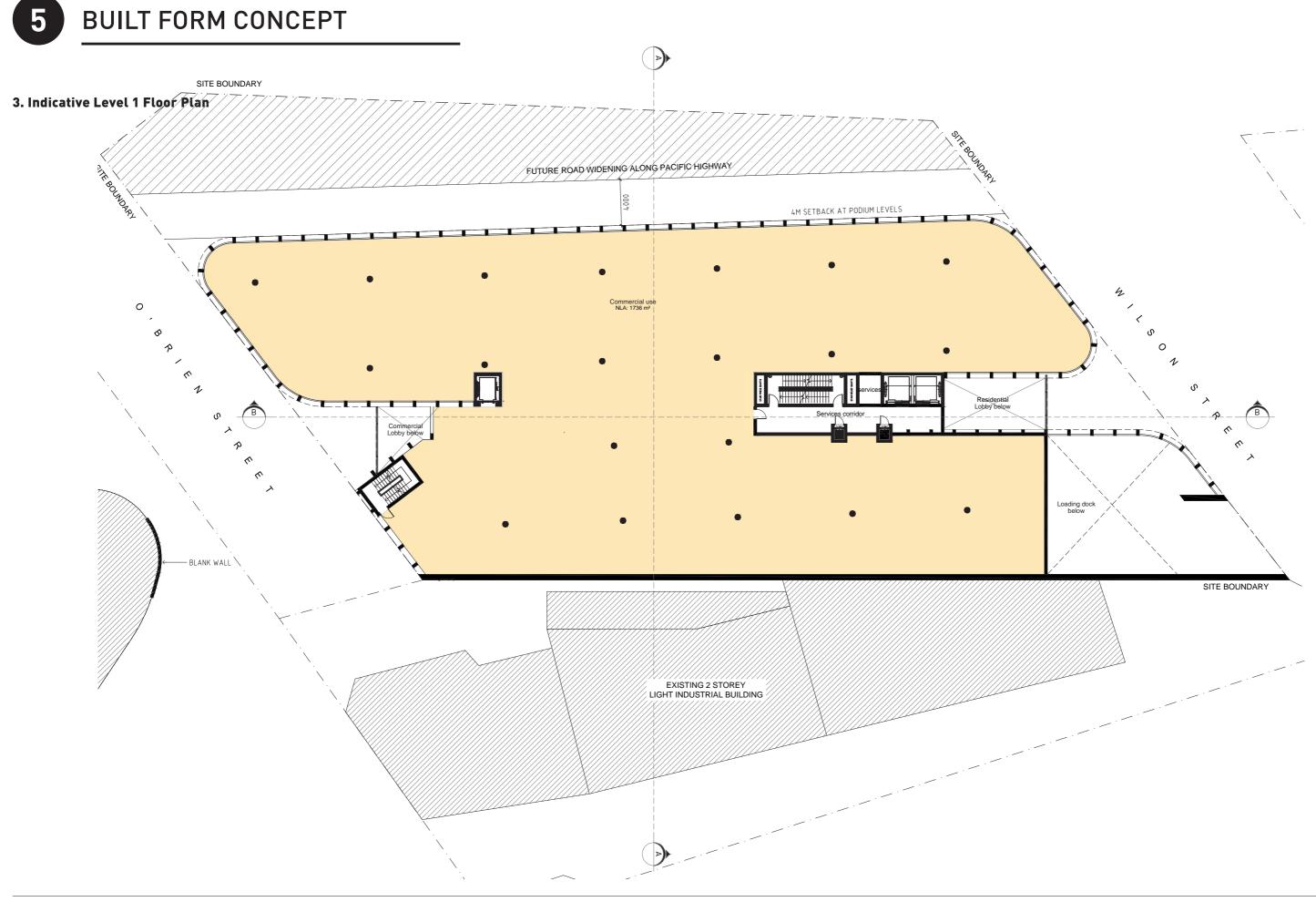
#### Architectural articulation

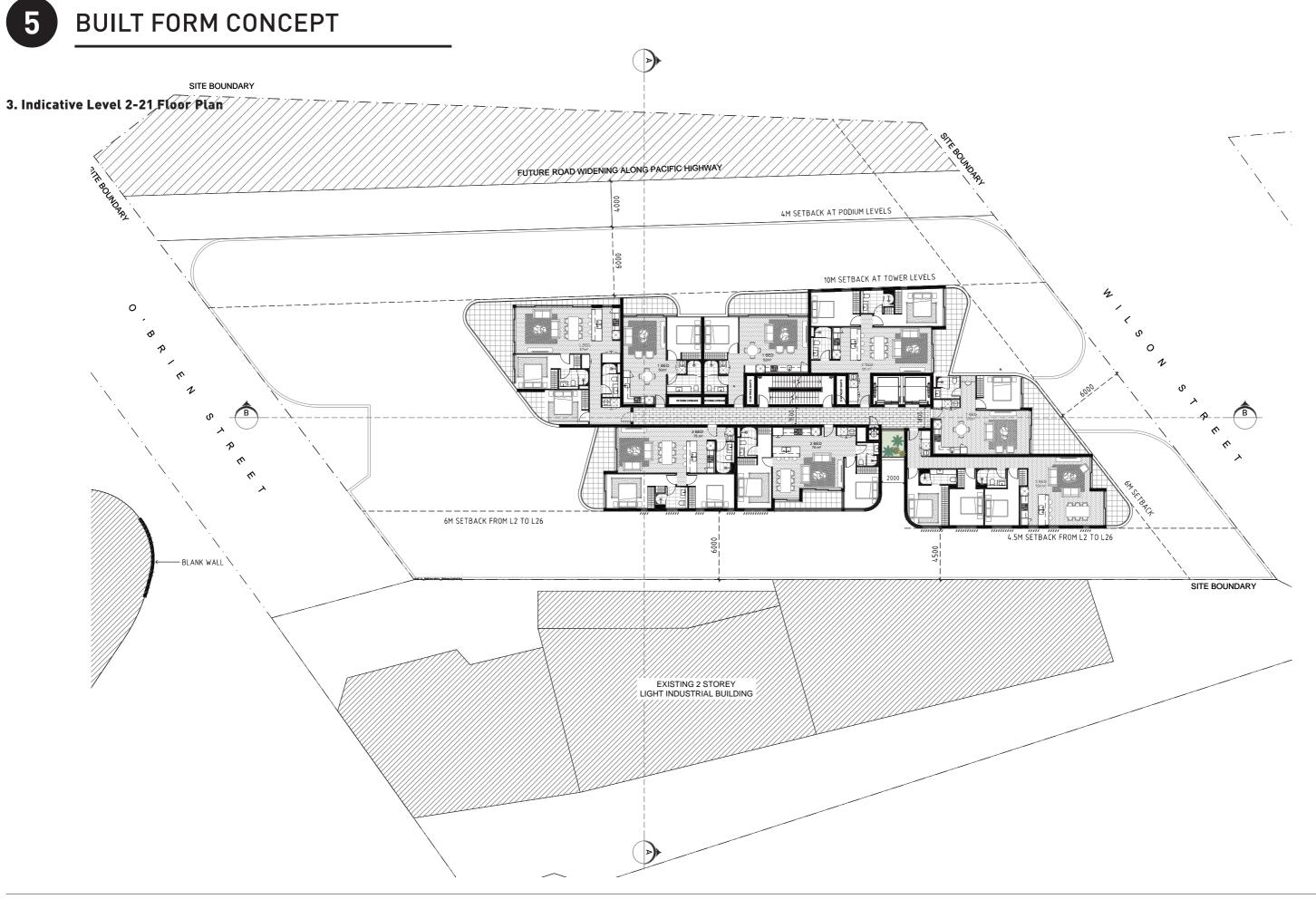
- Slender tower form
- Sharp corners to accentuate the slender tower form
- Articulated entry points by indentation
- Form break-up using indentation along Pacific Highway



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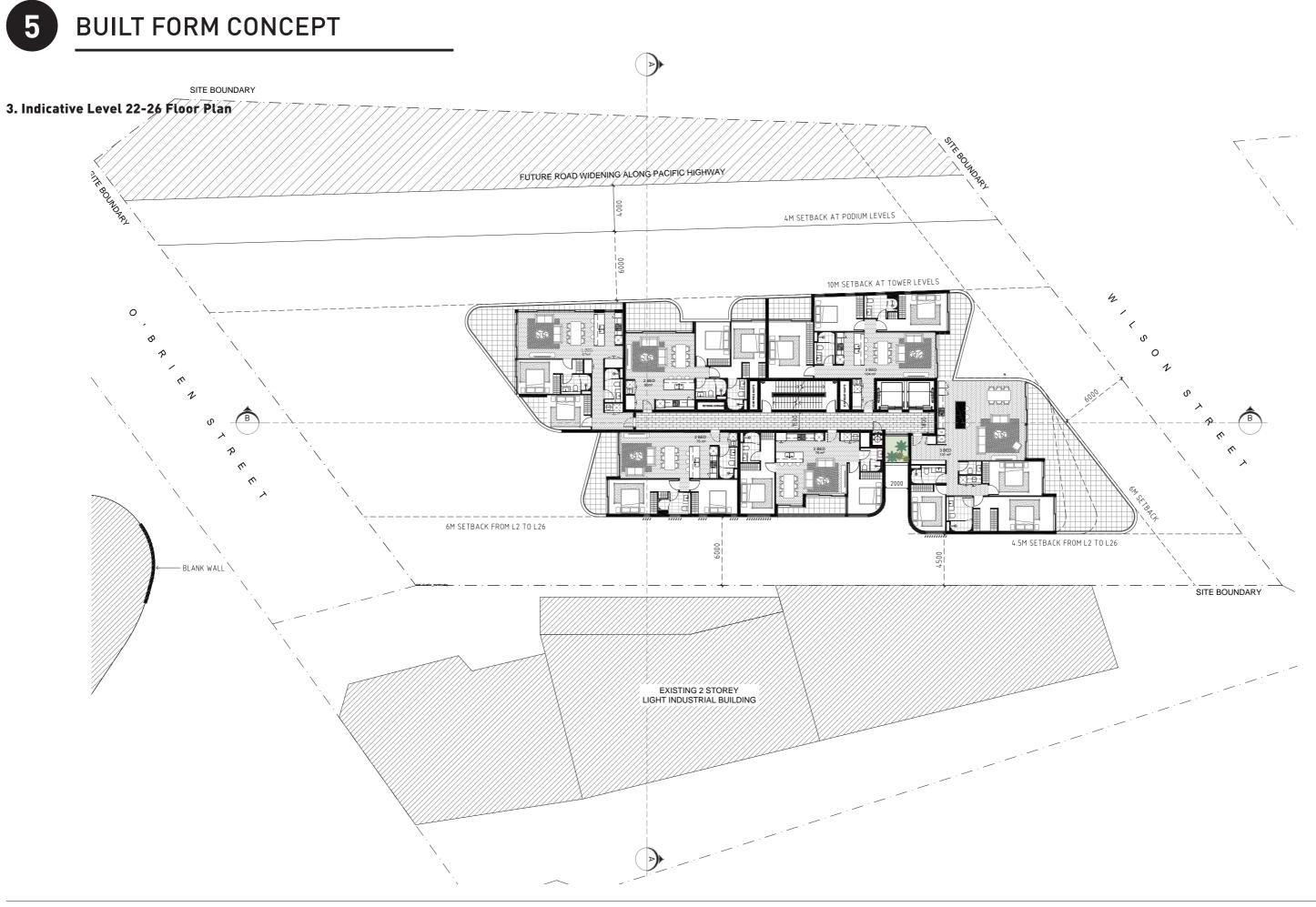




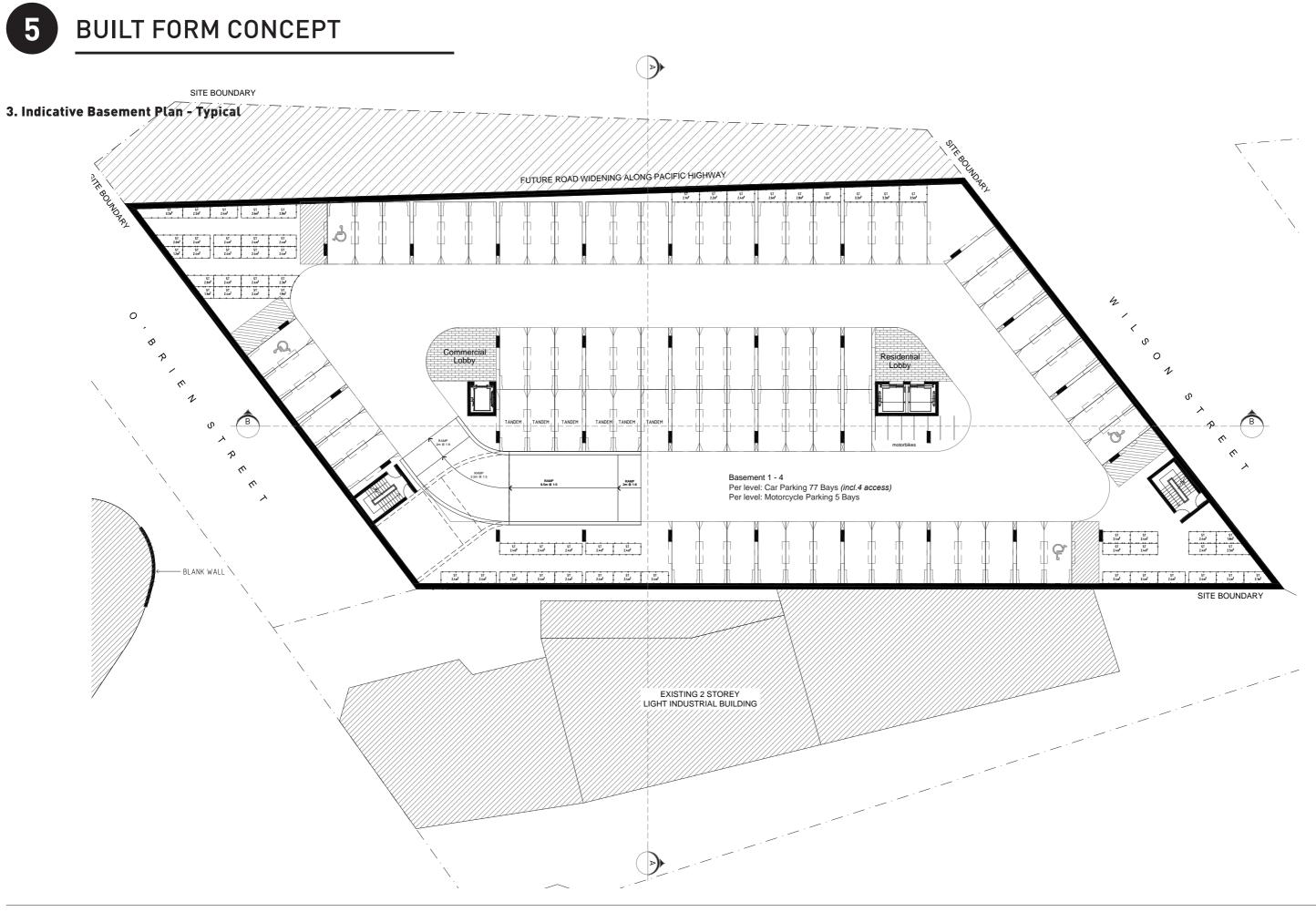


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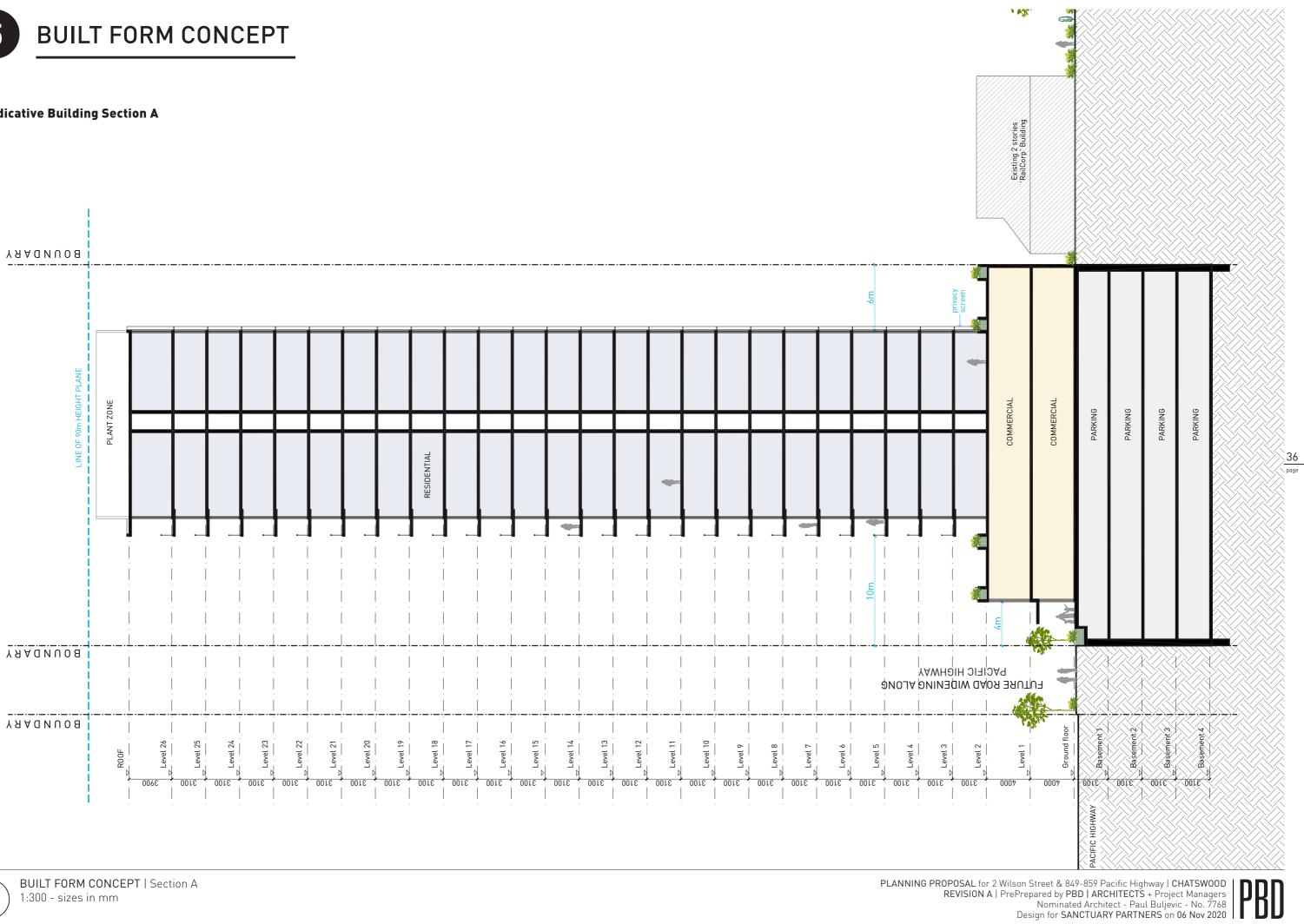
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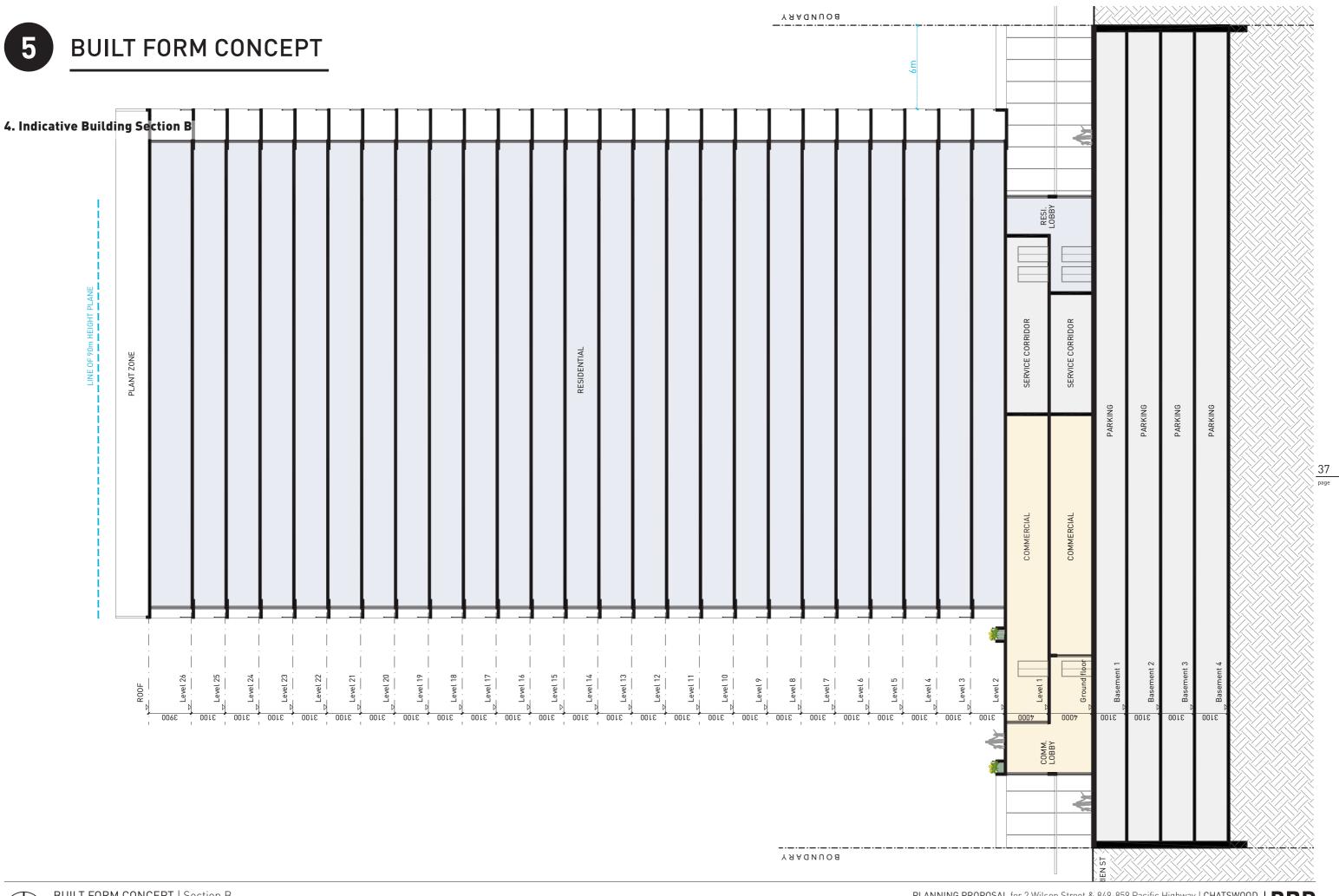
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#### 4. Indicative Building Section A









**BUILT FORM CONCEPT** 

#### 5. Indicative Podium Section & Analysis

Through the development of the indicative proposal, PBD Architects have analysed the quantitative and qualitative aspects of the proposed Street Wall cross-section as identified in Section 5.1 above. We agree that a consistent Street Wall should be identified for use through the various sites discussed in this proposal, however, we believe that the height of the Street Wall should be modified for the following reasons:

• The ground floor storey should be a taller storey to allow for an appropriate scale to be used for the commercial frontages. i.e. increase from 3m to 4m floor to floor.

• To achieve the desired 1:1 GFA for commercial development, there is inevitably a need for a second storey of commercial space. This space should be included as part of the street wall envelope and not be setback to the upper level alignments. This will promote the engagement of the commercial space with the street. It is worth noting that the first floor floorplate is in excess of 1,700m2 in order to achieve compliance.

• Podium level setbacks should allow for roof gardens which should then be bounded by solid construction to retain the necessary soil/growing medium.

The net result of the above, is that the street wall should be approximately 9m in height rather than the 6-7m height shown in the CBD strategy. We expect the CBD Strategy section is limited in detail due to the wide scope of the study. In the detail of developing an appropriate wholistic response for mixed-use proposals we believe the taller street wall will be the more appropriate response.

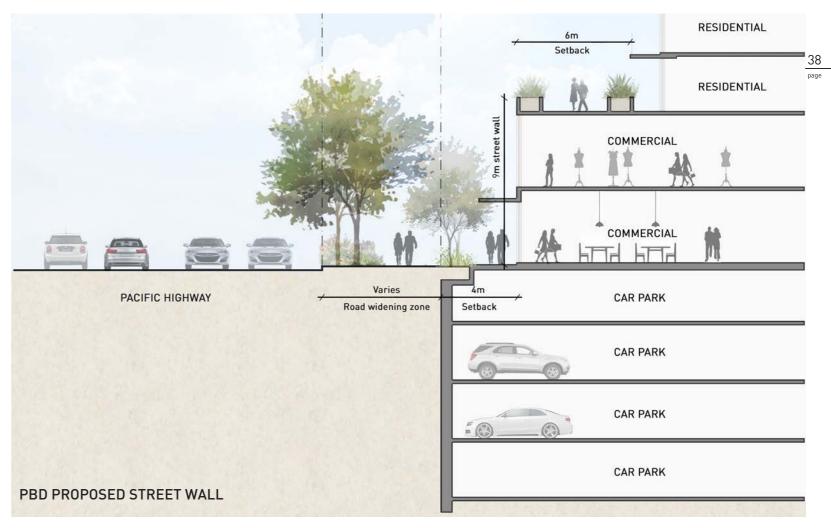
We propose that the prescribed street wall and setback regime be amended to an appropriate scale that promotes landscaped podiums and promotes high-quality commercial spaces to be included for the Ground Floor and First Floor levels.

The comparison of the Strategy's proposed street wall section and PBD's proposed street wall section, on the right, clearly shows that the proposed geometry produces a desireable outcome with a landscaped podium above good quality commercial floors.



## PACIFIC HIGHWAY

landscape footpath (min 1m)



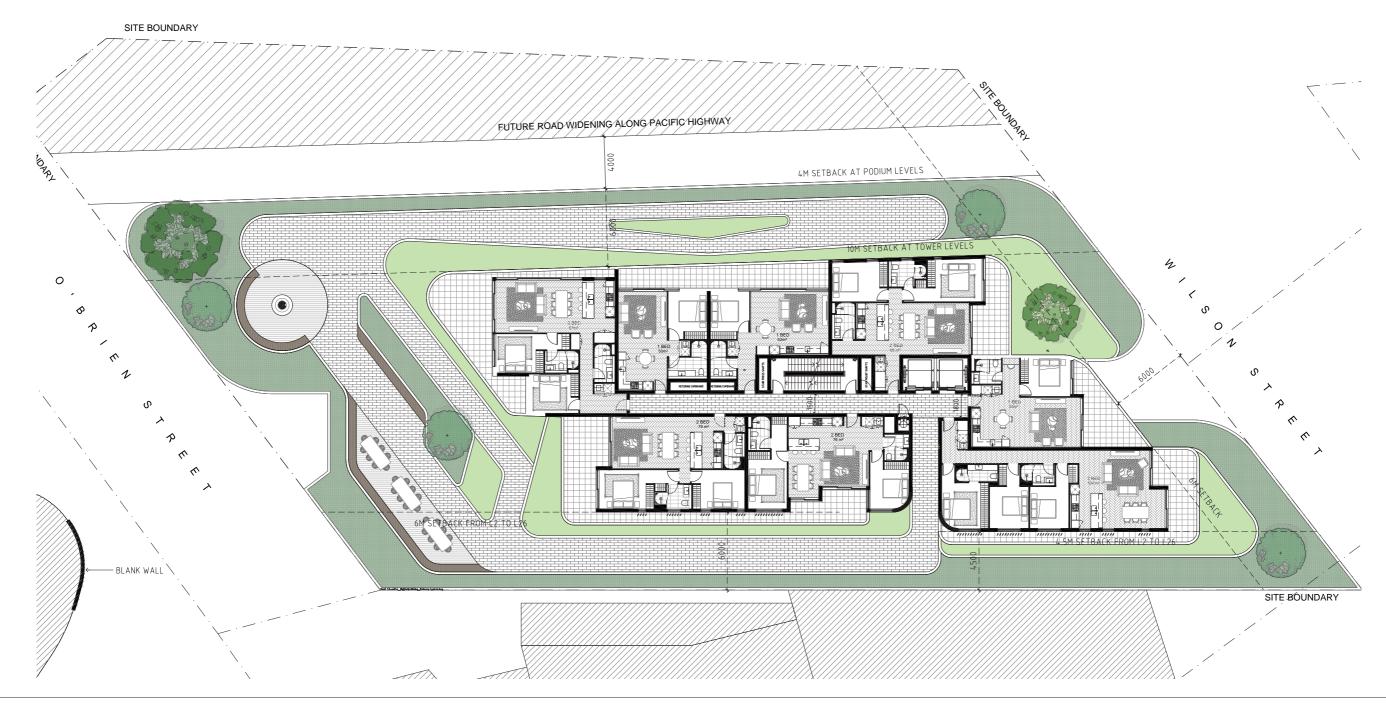
EAST

#### 6. Landscape Concept Plan

As per concept plan below, the Proposal includes a number of key • Landscaped communal open space with passive and active areas to landscape features as follows:

- Landscape buffering from surrounding site conditions to ensure increased amenity to inhabitants of the proposal
- Greenery along the built-form to contribute to improved bio diversity in city landscapes. Furthermore, this will improve the desired future green character of Chatswood centre.
- stimulate community activity and interaction between inhabitants. More active functions are located closer to pacific highway and receive the northern sunlight. Passive areas more recessed on the communal deck.
- Passive surveillance and security for and by its residents.

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PLANNING PROPOSAL for 2 Wilson Street & 849-859 Pacific Highway | CHATSWOOD REVISION A | PrePrepared by PBD | ARCHITECTS + Project Managers Nominated Architect - Paul Buljevic - No. 7768 Design for SANCTUARY PARTNERS on 06 Nov 2020



## **BUILT FORM CONCEPT**

## 7. Built Form Statistics

The following provides details of the built-form proposal in terms of critical statistics for Apartment Mix, GFA/FSR, Height and so on.

Total Site Area	3,166 m²
Proposed FSR commercial	1 : 1
Proposed GFA commercial	3,166 m²
Proposed FSR residential	5 : 1
Proposed GFA residential	15,830 m²
Proposed FSR total	6 : 1
Proposed GFA total	18,996 m²

CARPARKING RAT	ES

	Commercial	Visitors			
Unit Types	1 Bed	2 Bed	3 Bed	NLA	
Parking Rates	1	1	1.25	1 per 110m2	1 per 4
Sub total	60	100	30	3002	190
Proposed	60	100	37.5	27.3	47.5

Res	Visitors	Retail	Total
198	48	27	272

		RL	1B	2B	<b>x</b> 3B	Units	Solar	Cross Vent	NLA	GFA	NSA	GFA	CARS
	<u>.                                    </u>			25						Commercial		Residential	
	Roof Level 26				0		,	N L A			550	(0)	
	Level 25			4	2 2	6	4	NA NA			552 552	606 606	
	Level 24			4	2	6	4	NA			552	606	
	Level 23			4	2	6	4	NA			552	606	
	Level 22 Level 21		2	4	2	6	4	NA			552	606	
	Level 20		3	4	1	8	6	NA NA			584 584	636 636	
	Level 19		3	4	1	8	6	NA			584	636	
	Level 18		3	4	1	8	6	NA			584	636	
	Level 17		3	4	1	8	6	NA			584	636	
	Level 16 Level 15		3	4	1	8	6	NA NA			584 584	636 636	
	Level 14		3	4	1	8	6	NA			584	636	
S	Level 13		3	4	1	8	6	NA			584	636	
E E	Level 12		3	4	1	8	6	NA			584	636	
LEVELS twoical level	Level 11 Level 10		3	4	1 1	8	6	NA NA			584 584	636 636	
<sup>2</sup>	Level 9		3	4	1	8	6	NA			584	636	
	Level 8		3	4	1	8	6	5			584	636	
	Level 7		3	4	1	8	6	5			584	636	
	Level 6		3	4	1	8	6	5			584	636	
	Level 5 Level 4		3	4	1	8	6	5 5			584 584	636 636	
	Level 3		3	4	1	8	6	5			584	636	
	Level 2		3	4	1	8	6	5			584	636	
	Level 1 Ground Floor								1736 1266	1779 1387		80	
	Basement 1												77
	Basement 2 Basement 3												77 77
	Basement 4												41
	Subtotal		60	100	30		140	35					272
	Unit Mix		32%	53%	16%								
	Total Apartments					190							
	Solar						74%						
	Cross Vent							63%					
	NLA Total								3002				
	GFA Total commercial								efficiency 95%	3166			
	NSA Total										14440		
	GFA Total residential										efficiency 91%	15830	
	GFA Total												18996

40 page

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# SOLAR ANALYSIS 6



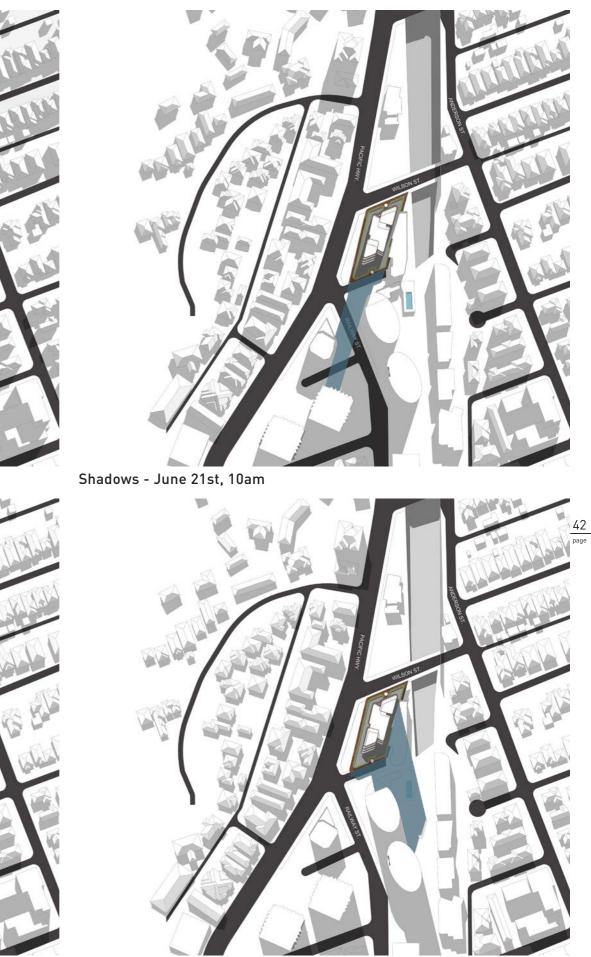


## 1. Shadow Diagrams - Existing Context

These shadow diagrams show the hourly intervals for the subject building within the existing context. Please refer to the following diagrams in section 6.2 for the shadows relative to a potential future context based on the Chatswood CBD Expansion Strategy.



Shadows - June 21st, 9am



Shadows - June 21st, 11am

Shadows - June 21st, 12pm

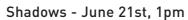




## 1. Shadow Diagrams - Existing Context

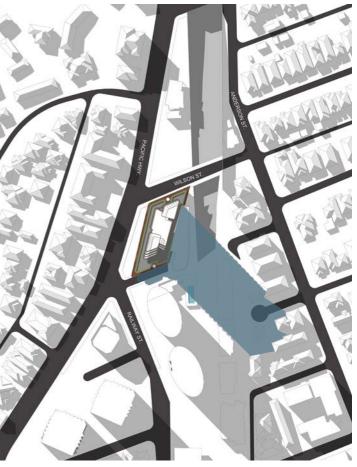
These shadow diagrams show the hourly intervals for the subject building within the existing context. Please refer to the following diagrams in section 6.2 for the shadows relative to a potential future context based on the Chatswood CBD Expansion Strategy.







Shadows - June 21st, 3pm



Shadows - June 21st, 2pm

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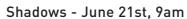


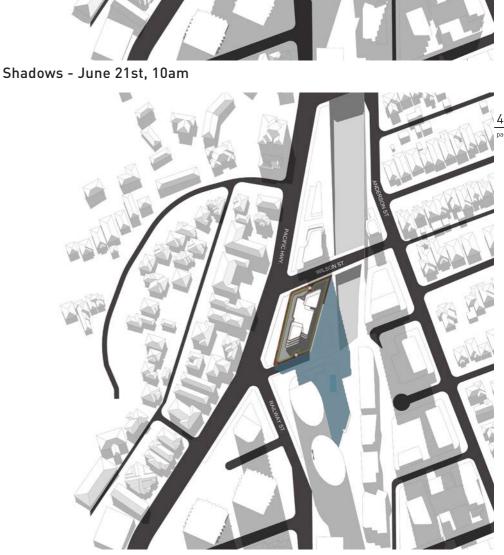


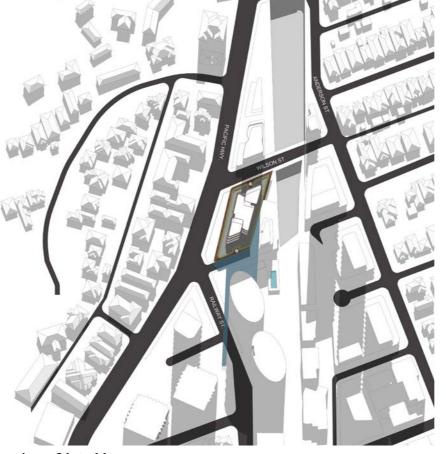
## 2. Shadow Diagrams - Future Context

These shadow diagrams show the hourly intervals for the subject building within the anticipated future context based on the Chatswood CBD Expansion Strategy. Please refer to the previous diagrams in section 6.1 for the shadows relative to the existing context.



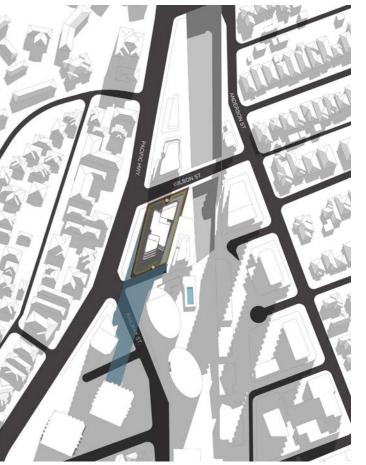












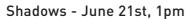




## 2. Shadow Diagrams - Future Context

These shadow diagrams show the hourly intervals for the subject building within the anticipated future context based on the Chatswood CBD Expansion Strategy. Please refer to the previous diagrams in section 6.1 for the shadows relative to the existing context.







Shadows - June 21st, 3pm



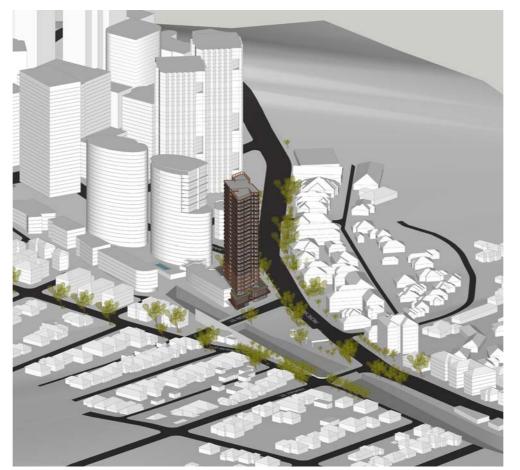
Shadows - June 21st, 2pm



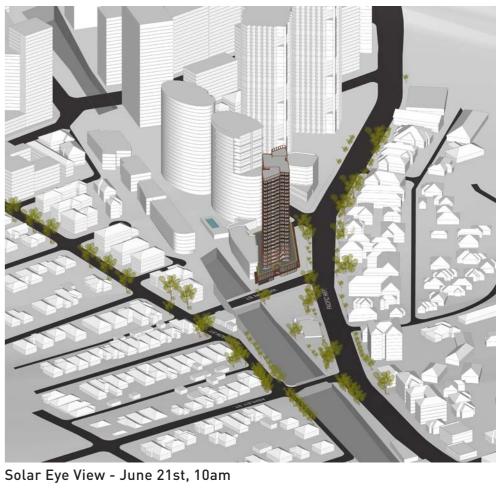


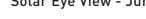
## 3. Solar Eye Views - Existing Context

These solar eye views show the hourly intervals for the subject building within the existing context. Please refer to the following diagrams in section 6.4 for the shadows relative to a potential future context based on the Chatswood CBD Expansion Strategy.



Solar Eye View - June 21st, 9am







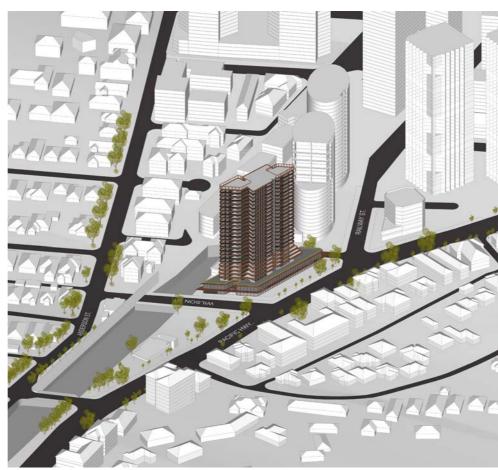
Solar Eye View - June 21st, 11am

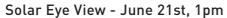




## 3. Solar Eye Views - Existing Context

These solar eye views show the hourly intervals for the subject building within the existing context. Please refer to the following diagrams in section 6.4 for the shadows relative to a potential future context based on the Chatswood CBD Expansion Strategy.







Solar Eye View - June 21st, 3pm



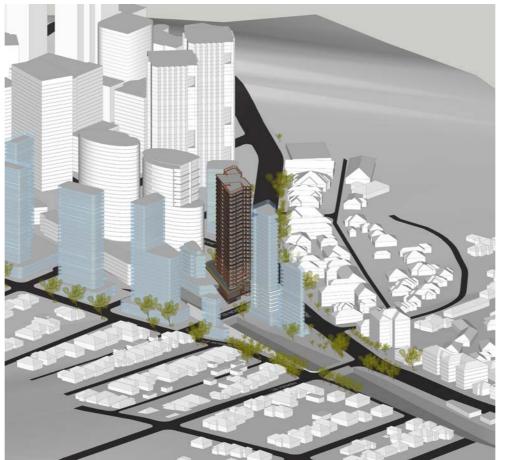
Solar Eye View - June 21st, 2pm





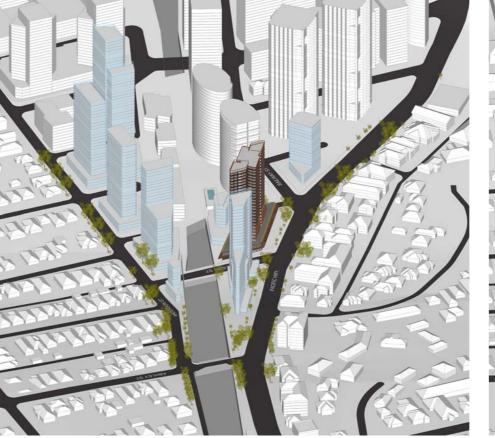
## 4. Solar Eye Views - Future Context

These solar eye views show the hourly intervals for the subject building within the anticipated future context based on the Chatswood CBD Expansion Strategy. Please refer to the previous diagrams in section 6.3 for the shadows relative to the existing context.



Solar Eye View - June 21st, 9am





Solar Eye View - June 21st, 11am

Solar Eye View - June 21st, 12pm

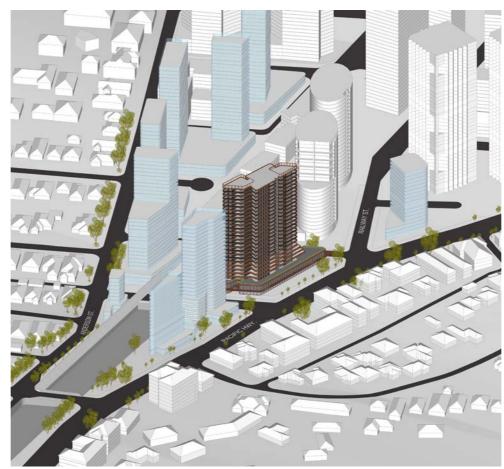


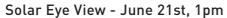




## 4. Solar Eye Views - Future Context

These solar eye views show the hourly intervals for the subject building within the anticipated future context based on the Chatswood CBD Expansion Strategy. Please refer to the previous diagrams in section 6.3 for the shadows relative to the existing context.







Solar Eye View - June 21st, 3pm



Solar Eye View - June 21st, 2pm







## 1. 3D Views - Existing Context

The following images provide an impression of the proposed built-form in the existing context.



South direction street view from Pacific Highway



North direction street view from Pacific Highway



North direction street view from Railway Street

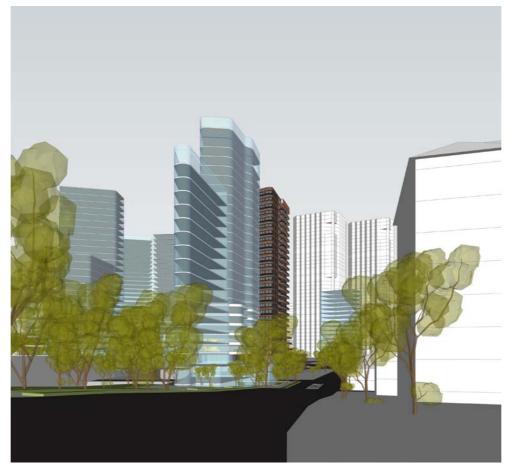






## 2. 3D Views - Future Context

The following images provide an impression of the proposed built-form in the anticipated future context.



South direction street view from Pacific Highway





North direction street view from Railway Street



North direction street view from Pacific Highway





3. Photomontages





## **COMPLIANCES & CONTROLS** 8





## 1. SEPP 65 / ADG Compliance Checklist

OBJECTIVE	D	ESIGN CRITERIA	PROPOSED	COMMENT
Part 3 - Siting	the Development			
3A Site Analysis		decisions have been based on opportunities and nd the relationship to the surrounding context	Complies	Built-form considers neighbouring context with adequate setbacks where required.
3B Orientation	Objective 3B-1 Building types and layouts respond within the development	to the street and site while optimizing solar access	Complies	The orientation of the built-form maximizes solar access.
	<b>Objective 3B-2</b> Overshadowing of neighbouring pro	operties is minimized during mid-winter	Complies	Building position relative to neighbours minimises solar impacts
3C Public Domain Interface	Objective 3C-1	blic domain is achieved without compromising safety	Complies	Apartments are secure from the street and are accessed through a central lobby.
	<b>Objective 3C-2</b> Amenity of the public domain is ret	ained and enhanced	Complies	Provides a consistent urban profile proposed 'Chatswood CBD Urban Design Strategy 2036'.
3D Communal and Public Open Space	Objective 3D-1 And adequate area of communal open space is provided to enhance residential amenity and to provide opportunities for landscaping	<ol> <li>Communal open space has a minimum area equal to 25% of the site</li> <li>Developments achieve a minimum of 50% direct sunlight to the principal usable part of the communal open space for a minimum of 2 hours between 9am and 3pm on 21<sup>st</sup> June (mid- winter)</li> </ol>	Complies Complies	Required – 791.5 sqm, Proposed L2 communal open space 1300 sqm. Residential communal area is locate on unobstructed Podium terrace achieving more than 2 hours direct sun light.
	<b>Objective 3D-2</b> Communal open space is designed to conditions and be attractive and inv	to allow for a range of activities, respond to site viting	Complies	The principal Communal Open Spac on the podium provides a variety of outdoor areas with different orientations. There is the potential for a BBQ are associated seating, a gym, outdoor
				pool and planting on the northern, western and southern sides.

OBJECTIVE	DI	PROPOSED					
	<b>Objective 3D-3</b> Communal open space is designed t	o maximize safety				Complies	Residenti private a Only tena
	<b>Objective 3D-4</b> Public open space, where provided, neighbourhood	is responsive to the	e existing patte	ern and us	ses of the	Complies	Ground f connectio street set corridor, Strategy.
3E Deep Soil Zone	<b>Objective 3E-1</b> Deep soil zone provides areas on	Deep soil zones a requirements:	re to meet the	following	; minimum		1 meter landsc The developme
	the site that allow for and support healthy plant and tree growth. They improve residential amenity and promote management of water and air quality	Site Area	Min. Dimensions -	(% of th area)	oil Zone ne site		of the Chatswo 3,166m <sup>2</sup> . As a p anticipated to I commercial and proposal. Road zone. The prop communal and response.
		650m <sup>2</sup> - 1500m <sup>2</sup> Greater than 1500m <sup>2</sup>	3m 6m	7% 7% 7%		Satisfactory	SEPP ADG stipu may not be pos and building tyj ground level (e high density and coverage or noi proposal does n stormwater ma forms of plantii
		Greater than 1500m <sup>2</sup> with significant tree cover	6m	7%			provides for 20 provided on str Chatswood CBI residential FSR makes it not po
3F Visual Privacy	<b>Objective 3F-1</b> Adequate building separation distances are shared equitably between neighbouring sites, to achieve reasonable levels of	Separation between windows and balconies is provided to ensure visual privacy is achieved. Minimum required separation distances from buildings to the side and rear boundaries are as follows:					The site i propertie south and property is current
	external and internal visual privacy. Note: Separation distances	Building Height Up to 12m (4 storeys)	Habitable	conies	Non- habitable rooms 3m	Complies	of a low s the existi of develo neighbou
	between buildings on the same site should combine required building separations depending on the type of room.	Up to 25m (5-8 storeys)	9r	n	4.5m		equitable The dista residenti
		Over to 25m (9+ storeys)	- 12	m	6m		property as docum report.

## COMMENT

ntial communal open space is and accessed via lift or stairs. nants have access to this area. I floor landscaping provides a tion with the landscaped setback to the Pacific Highway , consistent with the CBD

scape strip.

ment site is within the proposed northern precinct wood CBD expansion area and has a site area of a proposed B4 zone site, deep soil areas are to be limited as the delivery of appropriate and public interfaces are significant aspects of the ad widening zone has been provided for deep soil roposal balances public open space, landscaped nd private areas to provide an appropriate

tipulates that achieving the deep soil design criteria possible on some sites including where the location typology have limited or no space for deep soil at (e.g. central business district, constrained sites, areas, or in centres) and where there is 100% site non-residential uses at ground floor level Where a es not achieve deep soil requirements, acceptable management should be achieved and alternative nting provided such as on structures. The proposal 20% landscaped area in accordance with the DCP structures. The site is located within the CBD, in a density urban environment and a 1:1 non-SR is required to the two storey podium which possible to achieve a 7% deep soil zone.

is separated from other ies by roads to the north, ind west. The only adjoining ty is to the east. This property ently a light industrial building scale. The proposal considers sting and potential future scale lopment on the eastern ouring site and provides for ole separation

tance between the proposed tial tower and the adjoining ty are consistent with the ADG mented elsewhere in this

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OBJECTIVE		DESIGN CRITERIA	PROPOSED				
		<b>Objective 3F-2</b> Site and building design elements increase privacy without compromising access to light and air and balance outlook and views from habitable rooms and private open space.					
3G Pedestrian Access and Entries	<b>Objective 3G-1</b> Building entries and pedestrian a	ccess connects to and addresses the public domain	Complies	Pedestria street fro public op also availa for those			
	<b>Objective 3G-2</b> Access, entries and pathways are	accessible and easy to identify	Complies	A strong i and breal street ent			
	<b>Objective 3G-3</b> Large sites provide pedestrian lin	Complies	The site is and it is w frontages would be				
3H Vehicle Access	<b>Objective 3H-1</b> Vehicle access points are designed between pedestrians and vehicle	Complies	The vehic located in minimises movemen building. movemen is unaffec car park a visibility. minimal i				
3J Bicycle and Car Parking	Objective 3J-1 Car parking is provided based on proximity to public transport in metropolitan Sydney and centres in regional areas	<ul> <li>For development in the following locations:</li> <li>On sites that are within 800m of a railway station or light rail stop in the Sydney Metropolitan Area; or</li> <li>On land zoned, and sites within 400m of land zoned, B3 Commercial Core, B4 Mixed Use of equivalent in a nominated regional centre</li> <li>The minimum car parking requirement for residents and visitors is set out in the Guide to Traffic Generating Developments, or the car parking requirement prescribed by the relevant council, whichever is less. The car parking needs for a development must be</li> </ul>	Complies	272 space provided spaces, ar			

## COMMENT

articulations, balconies and ping are multi-purposed in ng separation and privacy, nhancing living environments. ian entry is from the primary ontage and connected to the pen space. Secure access is ilable via the basement levels e arriving by car.

g indentation in tower façade ak on podium levels indicates ntrances.

is not an excessively long site, well serviced by three street es. Additional pedestrian link e unnecessary.

icle access point has been in a discrete location that es impacts on existing traffic ent and is integrated with the . The dominant pedestrian ent along the Pacific Highway ected and the entrances to the and loading dock have good . The vehicle entries have impact on streetscapes.

ces required and 272 ed = 198 residential, 48 visitor and 27 Commercial spaces.

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OBJECTIVE		DESIGN CRITERIA	PROPOSED	
		provided off street.		
	<b>Objective 3J-2</b> Parking and facilities are provide	d for other modes of transport	Complies	Bicycle rae motorcyc
	<b>Objective 3J-3</b> Car park design and access is safe	e and secure	Complies	Secure ba access to
	<b>Objective 3J-4</b> Visual and environmental impact	s of underground car parking are minimised	Complies	The vehic impact on
	<b>Objective 3J-5</b> Visual and environmental impact	s of on-grade car parking are minimised	Complies	No on-gra
	<b>Objective 3J-6</b> Visual and environmental impact	s of above ground enclosed parking are minimised	Complies	No above
Part 4 – Desig	ning the Building			·
4AObjective 4A-1Solar and DaylightTo optimise the apartments rec to habitable roc windows and pro-	Objective 4A-1 To optimise the number of apartments receiving sunlight to habitable rooms, primary windows and private open space.	<ol> <li>Living rooms and private open spaces of at least 70% of apartments in a building receive a minimum of 2 hours of direct sunlight between 9am and 3pm at mid-winter in the Sydney Metropolitan Area and in the Newcastle and Wollongong local government areas</li> </ol>	Complies	<ol> <li>1. 140/190 Receive at to living ro space.</li> <li>2. N/A</li> </ol>
		<ol> <li>In all other areas, living rooms and private open spaces of at least 70% of apartments in a building receive a minimum of 3 hours direct sunlight between 9am and 3pm at mid-winter</li> </ol>	N/A	<b>3.</b> 0/190 ap Solar acces eastern ap
		<ol> <li>A maximum of 15% of apartments in a building receive no direct sunlight between 9am and 3pm mid winter.</li> </ol>	Complies	balconies s prevent iss requireme
	<b>Objective 4A-2</b> Daylight access is maximized whe	ere sunlight is limited	Complies	Full height maximize d
	<b>Objective 4A-3</b> Design incorporates shading and	Complies	Typically b below prov DA scheme devices to facades in	
4B	Objective 4B-1	wantilatad	Complies	
Natural Ventilation	All habitable rooms are naturally <b>Objective 4B-2</b> The layout and design of single a	Complies	Very few si Single aspe	

## COMMENT

racks and lockers and cle parking are to be provided pasement car park with lift all residential levels. icle entries have minimal on streetscapes.

rade parking provided

ve ground parking provided

90 apartments = 74% at least min 2hr direct sunlight rooms and private open

apartments = 0% ess to bedrooms of southapartments. Living areas and separated from train line to ssues with Sydney Trains' nents.

ht balcony windows/ doors to daylight access.

balconies overhang balconies oviding good solar control. A ne may include screening o eastern and western n particular.

single aspect apartments. pect apartments are proposed



OBJECTIVE		DESIGN CRITER	IA	PROPOSED	
					to have wid open plan l "dead air" a
	<b>Objective 4B-3</b> The number of apartments with natural cross ventilation is maximized to create a comfortable indoor environment for residents	<ol> <li>At least 60% ventilated in Apartments a to be cross ve balconies at t ventilation ar</li> <li>Overall depth apartment do</li> </ol>	Complies N/A	35/56 apart (first nine s No cross-ov	
4C Ceiling Heights	<b>Objective 4C-1</b> Ceiling height achieves sufficient natural ventilation and daylight access	line to glass li Measured from fini level, minimum ceil Minimum ceiling he buildings Habitable Rooms		Ceiling heig consistent recommend - 2.7 ha - 2.4 no 3100 mm f	
		Non-Habitable For 2 Storey Apartments	<ul><li>2.4m</li><li>2.7m for main living area floor</li><li>2.4m for second floor, where its area does not exceed 50% of the apartment area</li></ul>	Complies	assuming 2 flooring an Services to habitable s
		Attic Spaces If located in mixed use areas	<ul><li>1.8m at edge of room with a 30 degree minimum ceiling slope</li><li>3.3m for ground and first floor to promote future flexibility</li></ul>	-	heights in l
	<b>Objective 4C-2</b> Ceiling height increases the sense proportioned rooms	Complies	Habitable r adjacent to spaces whe Bulkheads a possible an spaces of n prevent un heights.		
	<b>Objective 4C-3</b> Ceiling heights contribute to the flexibility of building use over the life of the building				Provided m height at gr flexibility in occupancy

## COMMENT

vide living areas and shallow living areas to minimise zones. artments = 63% stories) over apartments

eights proposed are t with ADG ndations: nabitable non-habitable floor to floor provided 200mm thick slab, 30mm for and 110 for ceiling – 2700.

to be maintained in nonspaces to maximise ceiling n habitable areas.

rooms are located directly to openings and private open here ceiling is maximized. s are minimised where and services occupy ceiling non-habitable rooms to innecessary reduced ceiling

more than 4m of ceiling ground floor to allow in future conversion of y use.

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**COMPLIANCES & CONTROLS** 

## 1. SEPP 65 / ADG Compliance Checklist (Continued)

OBJECTIVE		DESIGN CRITERIA				
4D Apartment Size and	<b>Objective 4D-1</b> The layout of rooms within an		<ol> <li>Apartments are required to have the following minimum internal areas:</li> </ol>			
Layout	apartment is functional, well organised and provides a high	Apartment Type	Minimum Internal Area			
	standard of amenity	Studio	35m <sup>2</sup>			
		1 bedroom	50m <sup>2</sup>	Complies	All apartm	
		2 bedroom	70m <sup>2</sup>		internal ar	
		3 bedroom	90m <sup>2</sup>			
		Additional bathro area by 5m <sup>2</sup> each. A fourth bedroon	ernal areas include only one bathroom. ooms increase the minimum internal n and further additional bedrooms mum internal area by 12m <sup>2</sup> each			
		2. Every ha external not less	bitable room must have a window in an wall with a total minimum glass area of than 10% of the floor area of the room. and air may not be borrowed from		All habitab glass area room.	
	<b>Objective 4D-2</b> Environmental performance of the apartment is maximised		e room depths are limited to a m of 2.5 x the ceiling height	Complies	All habitab 2.5x the ce	
		and kitch	plan layouts (where the living, dining nen are combined) the maximum e room depth is 8m from a window	Complies	Window to plan living The maxim cabinetry i	
	<b>Objective 4D-3</b> Apartment layouts are designed to accommodate a variety of household activities	10m2 a	bedrooms have a minimum area of nd other bedrooms 9m2 (excluding be space)	Complies	Master be 10m2 and minimum	

## COMMENT

ments comply with minimum areas

able room have a minimum a of 10% of the floor area of the

able room depths are less than ceiling height

to kitchen dimension in open ng ranges between 4m to 6m. imum depth to the face of tall is 8m

edrooms are all in excess of d all other bedrooms are 9m2





OBJECTIVE		DESIGN CRIT	ERIA		PROPOSED					
	and needs		oms have a minimum dim cluding wardrobe space)	ension of	Complies	All bedroo width/leng				
		rooms	rooms or combined living have a minimum width c 3.6m for studio and 1 beo apartments 4m for 2 & 3 bedroom ap	f: droom	Complies	Living spac apartment 4.0m Living spac apartment 3.6m				
		apartm	dth of cross-over or cross nents are at least 4m inte deep narrow apartment la	rnally to	N/A	No cross-o				
4E Private Open Space	<b>Objective 4E-1</b> Apartments provide		tments are required to hates as follows:	ave primary						
and Balconies	appropriately sized private open space and balconies to enhance residential amenity	appropriately sized private open space and balconies to	Dwelling Type	Minimum Area	Minimum Depth	Complies	All balconi			
				Studio Apartments	4m <sup>2</sup>	-		comply wit or 2.4m as		
		1 Bedroom	8m <sup>2</sup>	2m		minimum				
						Apartments 2 Bedroom	10m <sup>2</sup>	2m	-	
		Apartments			_					
		3+ Bedroom Apartments	12m <sup>2</sup>	2.4m						
	Apprinting to the balcony depth to be counted as contributing to the balcony area is 1m         2. For apartments at ground level or on a podium or similar structure, a private open space is provided instead of a balcony. It must have a minimum area of 15m2 and a minimum depth of 3m					Areas have minimum 2				
	<b>Objective 4E-2</b> Primary private open space and for residents	balconies are appro	nce liveability	Complies	Private ope adjacent to allow for n ventilation					
	<b>Objective 4E-3</b> Private open space and balcony design is integrated into and contributes to the overall architectural form and detail of the building					Balconies a integrated facades				

## COMMENT

ooms have minimum ngth of 3m aces to all 2 & 3 bedroom nts have minimum width of

aces to all 1 bedroom nts have minimum width of

-over apartments

nies in this development with the minimum depth of 2m as applicable and relevant areas.

ve been calculated with 1m widths

pen spaces are directly to living spaces, orientated to maximized solar access and on

and private open spaces are ed with the building form and

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OBJECTIVE	VE DESIGN CRITERIA PROPOS		
	<b>Objective 4E-4</b> Private open space and balcony design maximises safety	Complies	Apartme maintain

4F Common Circulation	<b>Objective 4F-1</b> Common circulation spaces		um number of apartments off a core on a single level is eight	Complies	Two lifts w apartment
and Spaces	achieve good amenity and properly service the number of apartments	2. For building	s of 10 storeys and over, the number of apartments sharing a	Satisfactory	A total nur averaging
	<b>Objective 4F-2</b> Common circulation spaces pron residents	note safety and provid	e for social interaction between	Complies	Centralized interaction doing so.
4G Storage	<b>Objective 4G-1</b> Adequate, well designed	-	e in kitchens, bathrooms and wing storage is provided:		All apartm
	storage is provided in each	Dwelling Type	Storage Size Volume		required f
	apartment	Studio apartments	4m <sup>2</sup>	_	Additional
		1 bedroom	6m <sup>2</sup>	Complies	the basem
		apartments		complies	
		2 bedroom	8m <sup>2</sup>		
		apartments			
		3+ bedroom	10m <sup>2</sup>		
		apartments			The future
			equired storage is to be located		
		within the apartmen	t	Complies	
	<b>Objective 4G-2</b> Additional storage is convenientl apartments	y located, accessible a	nd nominated for individual	Complies	Additional directly ac
4H	Objective 4H-1				Where pos
Acoustic Privacy	Noise transfer is minimised through the siting of buildings and building layout			Complies	balconies a
				complies	located to
	Objective 4H-2	•			Appropria
	Noise impacts are mitigated wi		n layout and acoustic treatments	Complian	undertake
				Complies	been made floor to flo
					methodolo
					methodold

## COMMENT

nents balconies will be detailed to in safety for children and adults

will be provided for a max. of 8 nts on a single level. umber of apartments of 190 g 95 apartments per lift.

ed lift lobby encourages social on and provides amenity for

ments provide the storage for each apartment. al storage will be provided in ment

re DA will address this in detail.

al storage where provided is accessed on basement levels.

ossible planting, circulation, and non-habitable rooms are o buffer external noise sources.

iate acoustic measures will be ken at DA stage. Provisions have de for wall thicknesses and loor heights for construction ology.

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OBJECTIVE	DESIGN CRITERIA	PROPOSED	
4J Noise and Pollution	<b>Objective 4J-1</b> In noisy or hostile environments the impacts of external noise and pollution are minimised through the careful siting and layout of buildings	Complies	Habitable from exter through ba Façade dev further im impacts fro
	<b>Objective 4J-2</b> Appropriate noise shielding or attenuation techniques for the building design, construction and choice of materials are used to mitigate noise transmission	Complies	Solid balus and landsc diffusing n
4K Apartment Mix	<b>Objective 4K-1</b> A range of apartment types and sizes is provided to cater for different household types now and into the future	Complies	A mix of 1, spread ove
	<b>Objective 4K-2</b> The apartment mix is distributed to suitable locations within the building	Complies	A mix of 1, spread ove
4L Ground Floor Apartments	<b>Objective 4L-1</b> Street frontage activity is maximised where ground floor apartments are located	N/A	No ground
- <b>-</b>	<b>Objective 4L-2</b> Design of ground floor apartments delivers amenity and safety for residents	N/A	No ground
4M Facades	<b>Objective 4M-1</b> Building facades provide visual interest along the street while respecting the character of the local area	Complies	The facade designed w podium wi street wall future desi the Chatsw
	Objective 4M-2 Building functions are expressed by the facade	Complies	
4N Roof Design	Objective 4N-1 Roof treatments are integrated into the building design and positively respond to the street	Complies	
	<b>Objective 4N-2</b> Opportunities to use roof space for residential accommodation and open space are maximised	Complies	The top flo utilised for spaces with elements.

## COMMENT

e rooms are generally setback ernal noise of Pacific Highway & balconies and landscaping. levices will be employed to mprove acoustics and minimise from the rail corridor. ustrades on balconies, screens scaping are provided to assist in noise transmission.

1, 2 and 3 bedroom apartments ver the residential floors

1, 2 and 3 bedroom apartments ver the residential floors

nd floor apartments.

nd floor apartments.

des have been carefully with a mix of materials. The will be clearly defined and alls created consistent with the esired character identified in swood CBD expansion strategy.

floor of the building will be or private or communal open vith integrated landscape

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OBJECTIVE	DESIGN CRITERIA	PROPOSED	
	Objective 4N-3 Roof design incorporates sustainability features	Complies	Landscape level areas
40 Landscape Design	Objective 4O-1 Landscape design is viable and sustainable	Complies	Landscapi provides s contribute Selection trees will maintenar
	Objective 4O-2 Landscape design contributes to the streetscape and amenity	Complies	Landscapi the propo to the roo Public Ope space area landscape
4P Planting on Structures	Objective 4P-1 Appropriate soil profiles are provided	Complies	To future I
	<b>Objective 4P-2</b> Plant growth is optimised with appropriate selection and maintenance	Complies	To future
	<b>Objective 4P-3</b> Planting on structures contributes to the quality and amenity of communal and public open spaces	Complies	Communa have exter
4Q Universal Design	<b>Objective 4Q-1</b> Universal design features are included in apartment design to promote flexible housing for all community members	Complies	To future I
	<b>Objective 4Q-2</b> A variety of apartments with adaptable designs are provided	Complies	To future I
	<b>Objective 4Q-3</b> Apartment layouts are flexible and accommodate a range of lifestyle needs	Complies	All apartm allowing fl
4R Adaptive Reuse	<b>Objective 4R-1</b> New additions to existing buildings are contemporary and complementary and enhance an area's identity and sense of place	N/A	New deve

## COMMENT

be areas introduced to roof as.

bing and native plant selection shading and privacy and tes to the local climate. of native and low water usage I reduce water usage and ance.

bing has been integrated into osal from Ground level through of level.

pen space and Communal Open eas will have integrated e components.

DA/CC details

DA/CC details

hal areas on the podium will ensive planting.

e DA/CC details

e DA/CC details

ments have open plan living flexibility in the use.

elopment

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OBJECTIVE	DESIGN CRITERIA	PROPOSED	
	<b>Objective 4R-2</b> Adapted buildings provide residential amenity while not precluding future adaptive reuse	N/A	New deve
4S Mixed Use	<b>Objective 4S-1</b> Mixed use developments are provided in appropriate locations and provide active street frontages that encourage pedestrian movement	Complies	The propo to streets space.
	<b>Objective 4S-2</b> Residential levels of the building are integrated within the development, and safety and amenity is maximised for residents	Complies	
4T Awnings and Signage	<b>Objective 4T-1</b> Awnings are well located and complement and integrate with the building design	Complies	Podium de protection with the o
	Objective 4T-2 Signage responds to the context and desired streetscape character	Complies	To future
4U Energy Efficiency	Objective 4U-1 Development incorporates passive environmental design	Complies	Adequate ventilation
	<b>Objective 4U-2</b> Development incorporates passive solar design to optimise heat storage in winter and reduce heat transfer in summer	Complies	To future
	<b>Objective 4U-3</b> Adequate natural ventilation minimises the need for mechanical ventilation	Complies	Apartmen depths, ce promote a
4V Water Management and Conservation	Objective 4V-1 Potable water use is minimised	Complies	Water red usage land
	Objective 4V-2 Urban storm-water is treated on site before being discharged to receiving waters	Complies	To future
	Objective 4V-3 Flood management systems are integrated into site design	Complies	To future
4W Waste Management	<b>Objective 4W-1</b> Waste storage facilities are designed to minimise impacts on the streetscape, building entry and amenity of residents	Complies	Waste sto loading do streetscap
	Objective 4W-2	Complies	To future

## COMMENT

elopment

osal includes active frontages and the proposed public open

design and awnings provide on/cover and are integrated overall building expression. e DA/CC details

e solar access and crosson to all habitable rooms.

e DA/CC details

ents designed with appropriate ceiling heights and planning to airflow and natural ventilation.

ducing fixtures and low water ndscaping implemented

DA/CC details

DA/CC details

orage is located adjacent to the lock and does not affect the ape.

## e DA/CC details

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OBJECTIVE		DESIGN CRITERIA	PROPOSED	
		Domestic waste is minimised by providing safe and convenient source separation and recycling		

	4X Building Maintenance	<b>Objective 4X-1</b> Building design detail provides protection from weathering	Complies	Materials p hard weari Building de protections
		<b>Objective 4X-2</b> Systems and access enable ease of maintenance	Complies	Generally, can be dire units, inter facilities.
		<b>Objective 4X-3</b> Material selection reduces on-going maintenance costs	Complies	Materials p hard weari Building de protections

## COMMENT

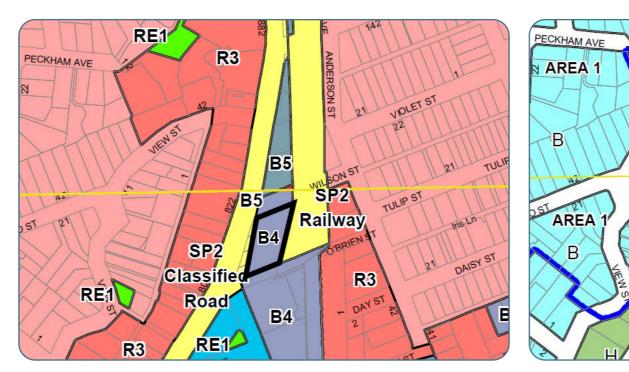
proposed will be robust and ring to minimise maintenance. detailing will provide ns to openings.

v, maintenance of the building rectly accessed via individual ernal lobbies or back of house

proposed will be robust and ring to minimise maintenance. detailing will provide ns to openings.

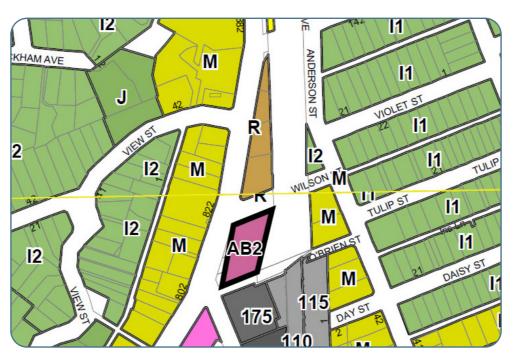


## 2. Proposed LEP Controls

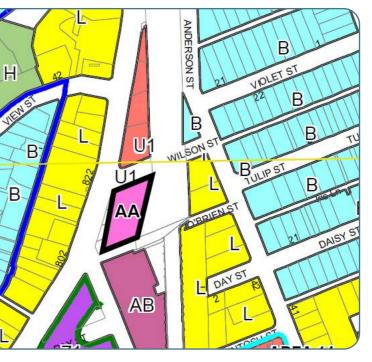


Proposed LEP Zoning map Zoning: B4 - Mixed use



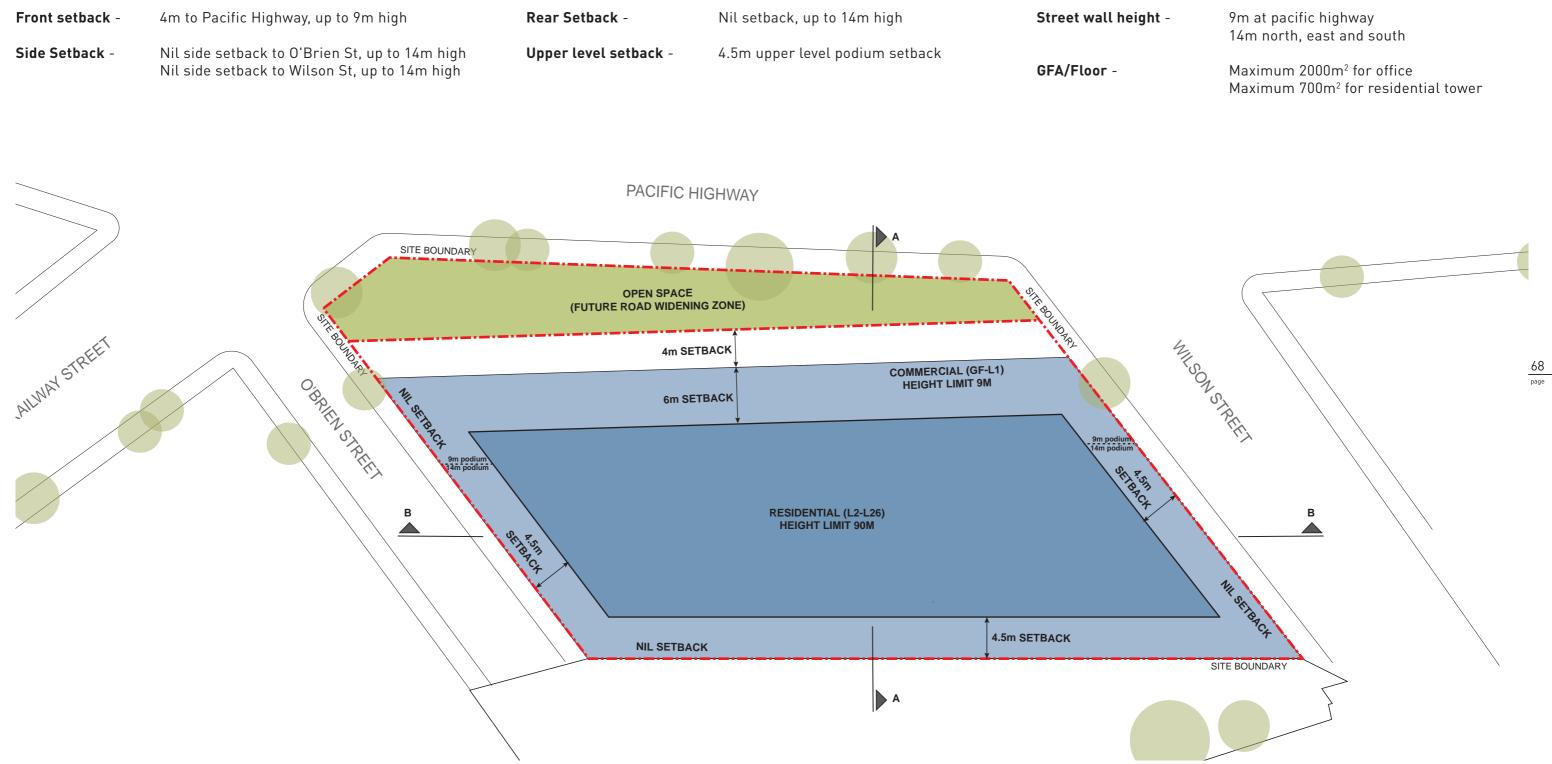


Proposed LEP height map Height: AB2 - 90m



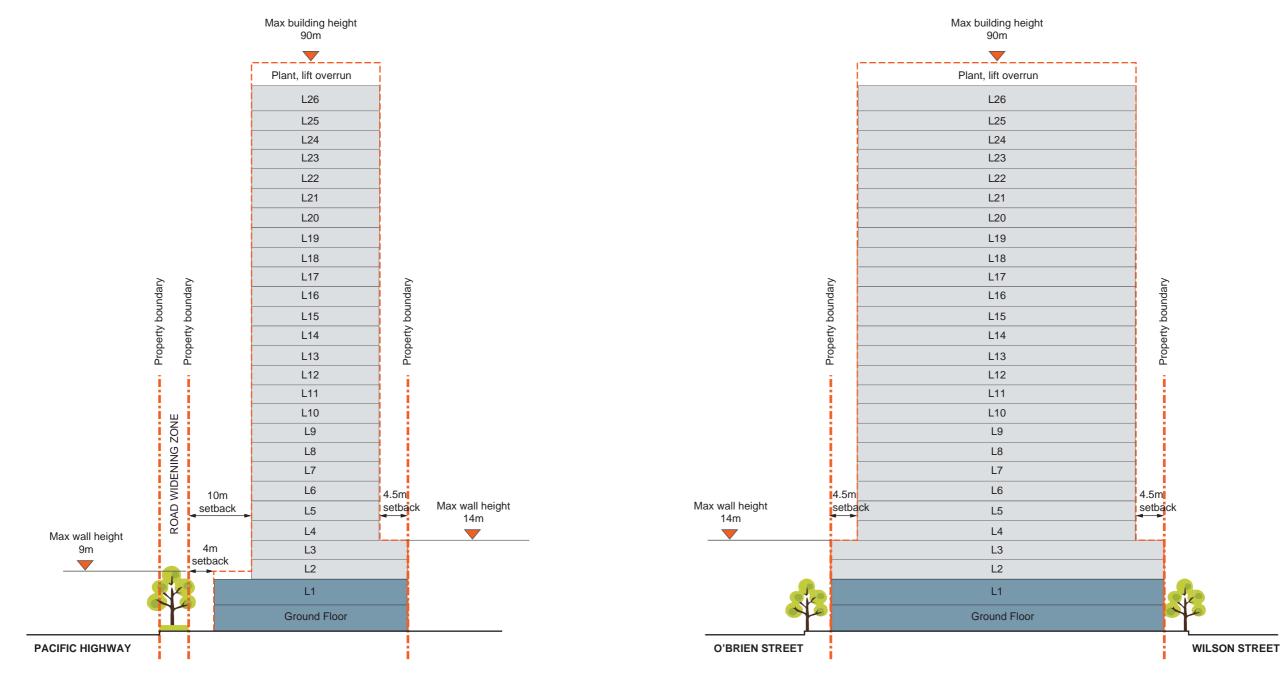
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#### **3. Proposed DCP Controls**





#### **3. Proposed DCP Controls**



Proposed DCP section A

Proposed DCP section B



# **PBD** | ARCHITECTS

Level 2 / 52 Albion Street Surry Hills NSW 2010 Australia

+61 2 9698 8140 info@pbdarchitects.com.au pbdarchitects.com.au

PBD Architects & Project managers Pty Ltd ABN 36 147 035 550

Paul Buljevic ARB #7768

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