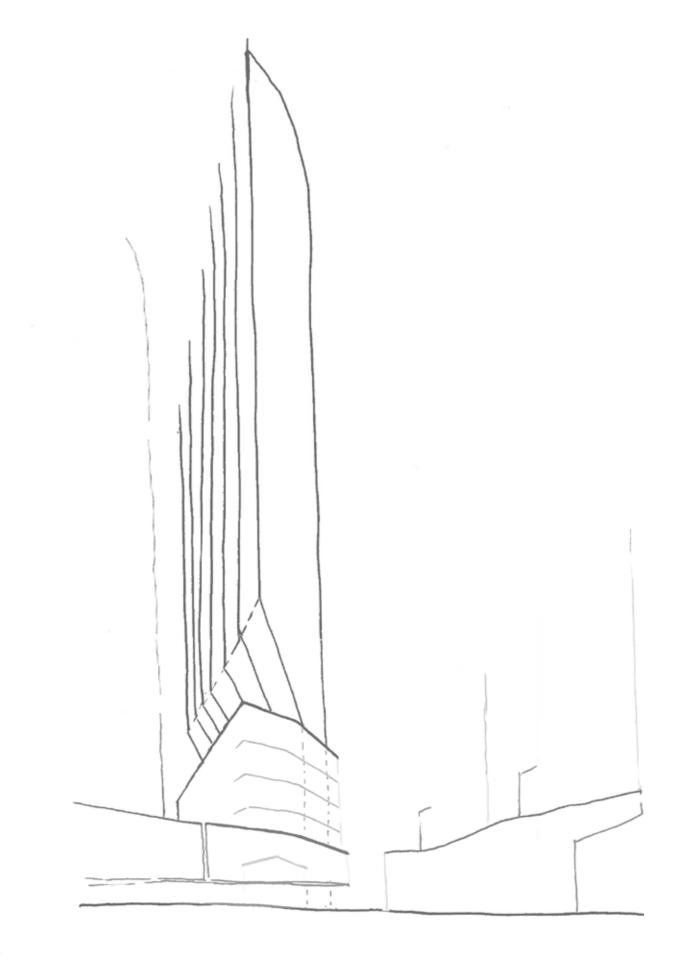
# TELSTRA EXCHANGE SITE ST LEONARDS 524-542 Pacific Highway

PLANNING PROPOSAL

PREPARED FOR GROCON 2019.09.19



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EG







aurecon

# PTW

### **TELSTRA EXCHANGE SITE**

### 524-542 PACIFIC HIGHWAY, ST LEONARDS CONCEPT DESIGN REPORT

| ARED FOR:    | GROCON          |
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## PROJECT INTRODUCTION | PTW **ST LEONARDS SITE CONTEXT**



#### DEVELOPMENT SUMMARY

The report summarises the design investigations linked to the future development of St Leonards CBD and describes a design concept for a development at 524-542 Pacific Highway, herein known as "the site".

Located along Pacific Highway to the south east of the St Leonards Forum, the site is an amalgamation of 8 allotments. The eastern portion of the site is occupied by the operating Telstra Telephone Exchange, whereas the western side at the corner of Christie Street and Pacific Highway is occupied by fragmented low scale retail and commercial buildings.

The report investigates:

- The future role of St Leonards in the wider context of Sydney
- The existing and future connectivity and uses of the site's surrounds
- Issues in association with the transformation of the St • Leonards precinct
- Constraints of the site •
- Opportunities to complete the future urban image •

The report describes:

- A response to the challenging site constraints
- A contribution to the future urban context
- An architectural concept seeking design excellence •
- A built form with superb amenity •

The report proposes a development with:

- ٠
- A commercial FSR of 4.1:1
- A total FSR of 23.2:1 ٠
- ٠ A maximum height of 195m
- ٠ 57 storeys
- 366 apartments ٠

This report has been prepared for Grocon by PTW Architects. It is to be read in conjunction with the accompanying Planning Proposal document prepared by Ethos Urban.

### PTW PROJECT INTRODUCTION A CASE FOR CHANGE



A NEW MIXED-USE CENTRE. ST LEONARDS

A CASE FOR CHANGE

Since 2014, rezoning approvals on the southern side of Pacific Highway allowing for mixed-use development of significant height and density in the immediate vicinity of the station, have permanently transformed the character and scale of development in the St Leonards precinct. Applications of increased scale on the northern side of the Highway are either already underway or soon to be submitted.

The St Leonards Centre is now destined to become one of Sydney's few genuine mixed-use precincts, with substantial offerings of Commercial and Residential coexisting in the immediate vicinity of public open space, community services, high-amenity retail and key public transport infrastructure.

Located just 50 m from St Leonards Station and 350 m from the new Crows Nest Metro Station, the Telstra Exchange site is one of few significant land holdings in Sydney to be within 400 m of two heavy rail stations. The new Metro link will substantially improve the area's already first rate access to public transport, providing a new link to key employment hubs of Macquarie Park, Barangaroo and Sydney CBD, and further reducing reliance on passenger vehicles in the area.

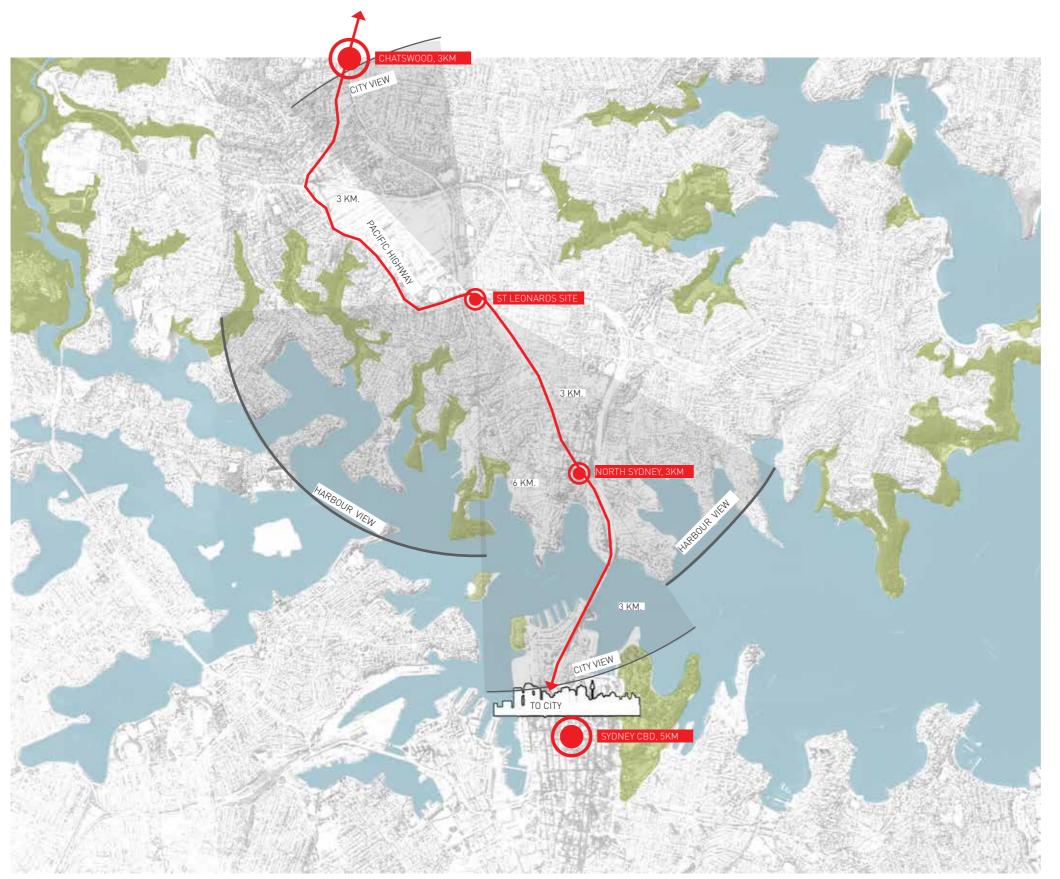
This proposal presents a unique opportunity to revitalise a significant 'gap' in the built form at a prominent gateway location and a keystone activation point for a precinct now characterised by world-class urban design. The potential for improved amenity and enhanced connectivity to surrounding development, public transport and civic spaces make the site an ideal location to create highly functional mixed-use development whilst at the same time delivering substantial public benefit for the community and the LGA.

The building's strongly articulated vertical fluting and raking geometry in elevation will create a striking sculptural form further emphasising this important corner and provide a unique urban form to fill this gap in this location. The envisioned public domain space at ground level is modelled on integrated commercial offerings with active frontage in other locations. The intention is to align with St Leonards' strategic imperative to retain its commercial core. In addition to this, the site has the opportunity to provide activation to Christie Street and Christie Lane, as well as achieving better continuity in the built form in the Centre.

# 1. Context

SYDNEY CBD

CHATSWOOD



ST LEONARDS: IN CONTEXT WITHIN THE SYDNEY METROPOLITAN AREA.

## CONTEXT | PTW **REGIONAL CONTEXT**

#### **REGIONAL CONTEXT**

The ridge of the north shore of Sydney extends from Milsons Point through to Hornsby. The Pacific Highway generally follows this ridge along its length with the journey along the highway defined by the urban centres of North Sydney, St Leonards, Chatswood and Hornsby which each of has undergone significant growth in recent years.

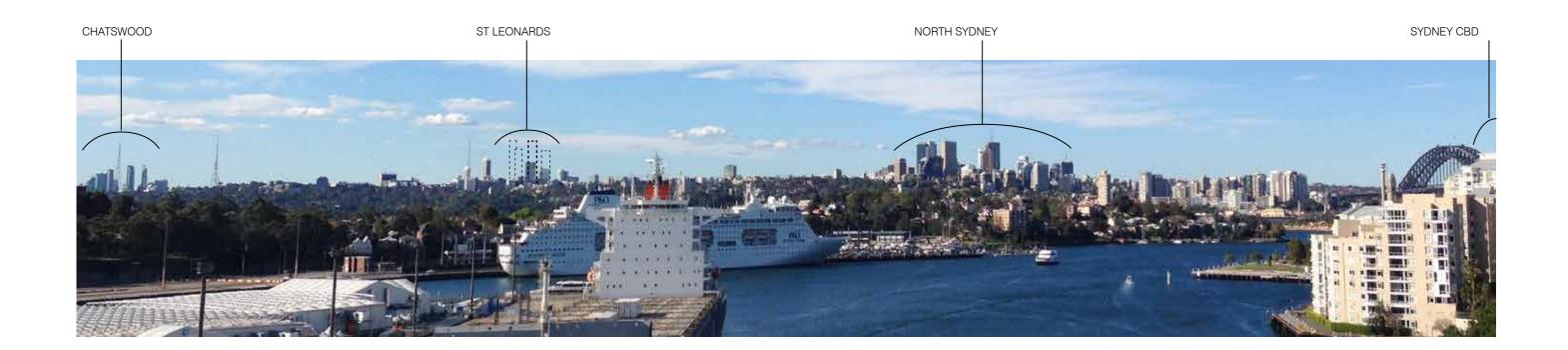
The journey by road along the highway, the sense of passing through these centres is improved when the composition of each centre; the sense of entry, focus and urban structure is clear. St Leonards currently lacks such structure however several major proposed developments will help compose the town centre building groups.

The Telstra Exchange site sits within St Leonards Specialised Centre and is near key locations within the St Leonards Centre, namely:

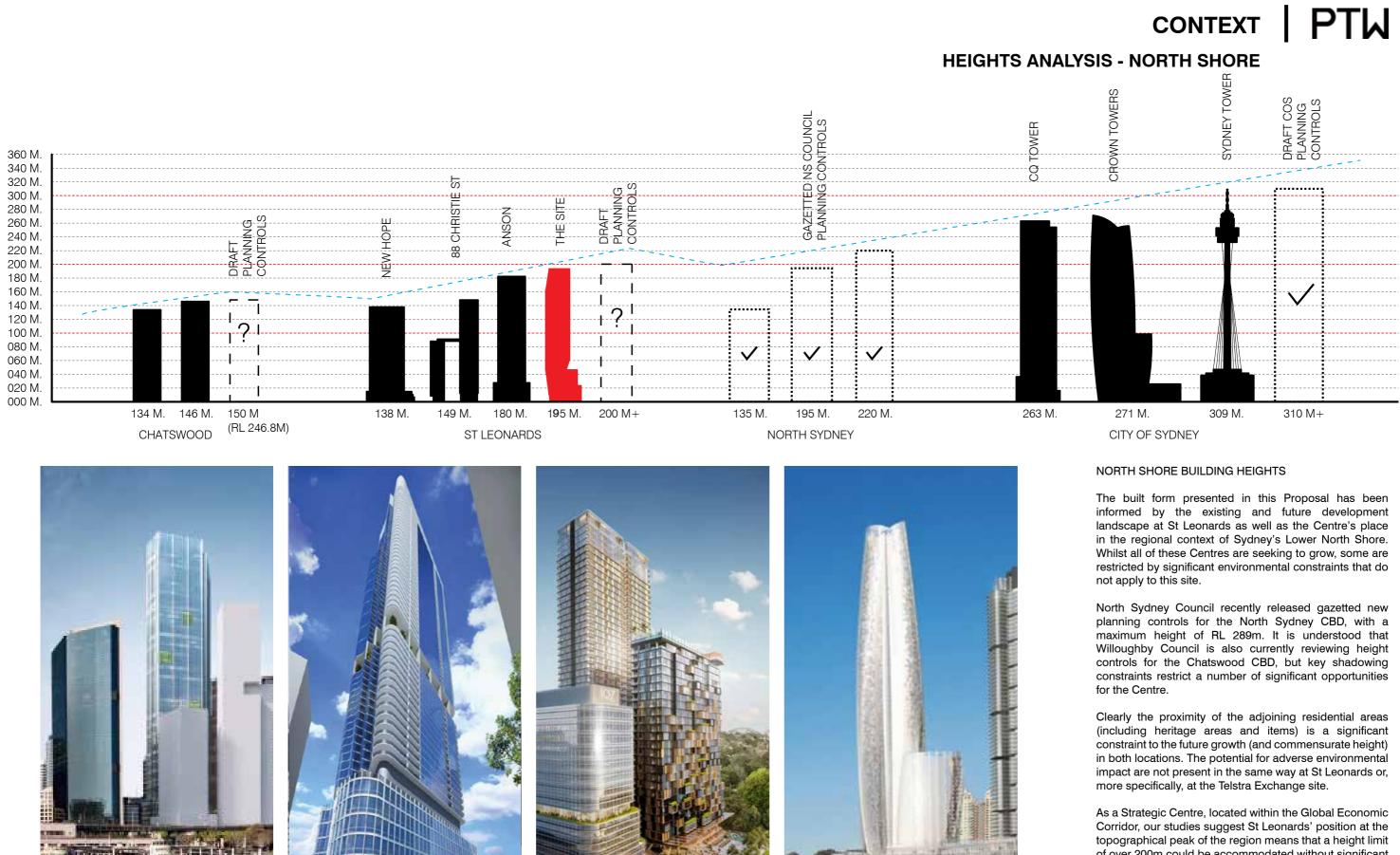
- The St Leonards Forum retail
- Royal North Shore Hospital •
- Willoughby Road / Crows Nest •
- North Sydney TAFE

## CONTEXT | PTW STRATEGIC CENTRES OF THE NORTH SHORE





#### ST LEONARDS: A KEY ELEMENT OF THE COMPOSITION OF THE NORTHERN RIDGE



CQ TOWER, SYDNEY CBD

ANSON, 617 PAC. HWY, ST LEONARDS

88 CHRISTIE ST, ST LEONARDS

CROWN TOWER, BARANGAROO

of over 200m could be accommodated without significant environmental impact.

### **REGION AND DISTRICT PLANS**

North District

City of Ryde

Hunters Hill

Ku-ring-gai

Lane Cove

North Sydney

Northern Beaches Willoughby

Eastern

City

District

Mosman

North

Central

City

District

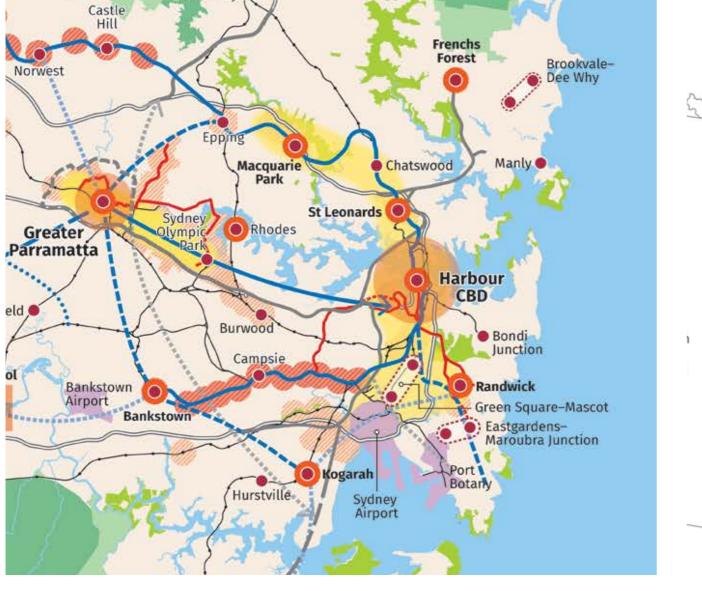
District

1 the me

South

District

Hornsby







SOURCE: GREATER SYDNEY COMISSION

# 

A PLAN FOR GROWING SYDNEY – ST LEONARDS STRATEGIC CENTRE

St Leonards is located within the Global Economic Corridor, a concentration of employment, economic activity and other uses in centres, transport gateways and industrial zoned land extending from Port Botany and Sydney Airport, through Sydney CBD, north-west through Macquarie Park, and towards Norwest, Parramatta and Sydney Olympic Park.

Under the Plan, St Leonards is identified as a Health and Education with a specific priority to:

- Work with council to retain a commercial core in St Leonards for long-term employment growth;
- Work with council to provide capacity for additional mixed-use development in St Leonards including offices, health, retail, services and housing;
- Support health-related land uses and infrastructure around Royal North Shore Hospital; and
- Work with council to investigate potential future employment and housing opportunities associated with a Sydney Rapid Transit train station at St Leonards/Crows Nest.

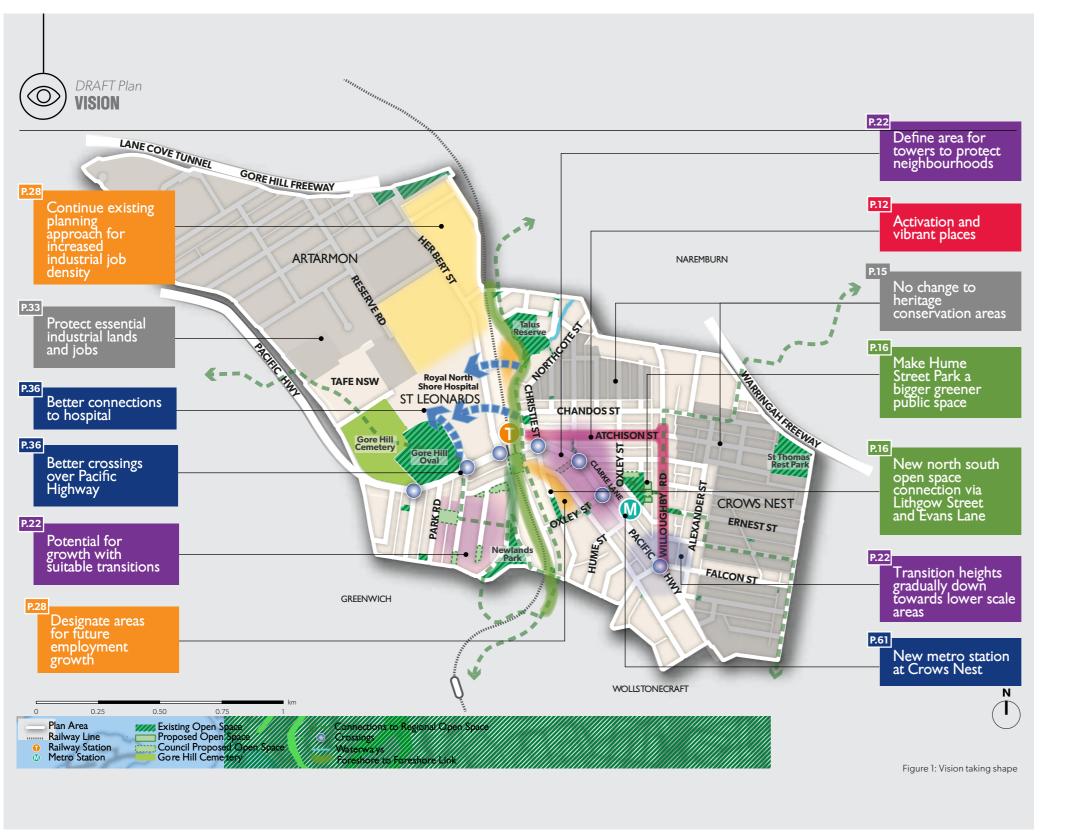
#### NORTH DISTRICT PLAN

The North District Plan is a matter for consideration in this Planning Proposal and applies to the St Leonards Centre and the subject site.

Action 34 of the District Plan is to Strengthen St Leonards through approaches that:

- Leverage the new Sydney Metro Station at Crows
   Nest to deliver additional employment capacity
- Grow jobs in the centre
- Reduce the impact of vehicle movements on pedestrian and cyclist accessibility
- Protect and enhance Willoughby Road's village character and retail/ restaurant strip
- Deliver new high quality open space, upgrade public areas, and establish collaborative place-making initiatives
- Promote synergies between the Royal North Shore Hospital and other health and education-related activities, in partnership with NSW Health
- Retain and manage the adjoining industrial zoned land for a range of urban services.

## CONTEXT | PTW DRAFT ST LEONARDS AND CROWS NEST 2036 PLAN



VISION FOR ST LEONARDS AND CROWS NEST

SOURCE: DEPARTMENT OF PLANNIG AND ENVIRONMENT

#### DRAFT ST LEONARDS AND CROWS NEST 2036 PLAN

The significance of St Leonards has been recognised by the NSW Department of Planning & Environment, who have been undertaking investigations into the future rezoning of the precinct for the past few years. This process has culminated in the release of the Draft St Leonards and Crows Nest 2036 Plan (2036 Plan), which sets a vision for the precinct and provides a framework for Council-led planning proposals to amend zoning and density controls.

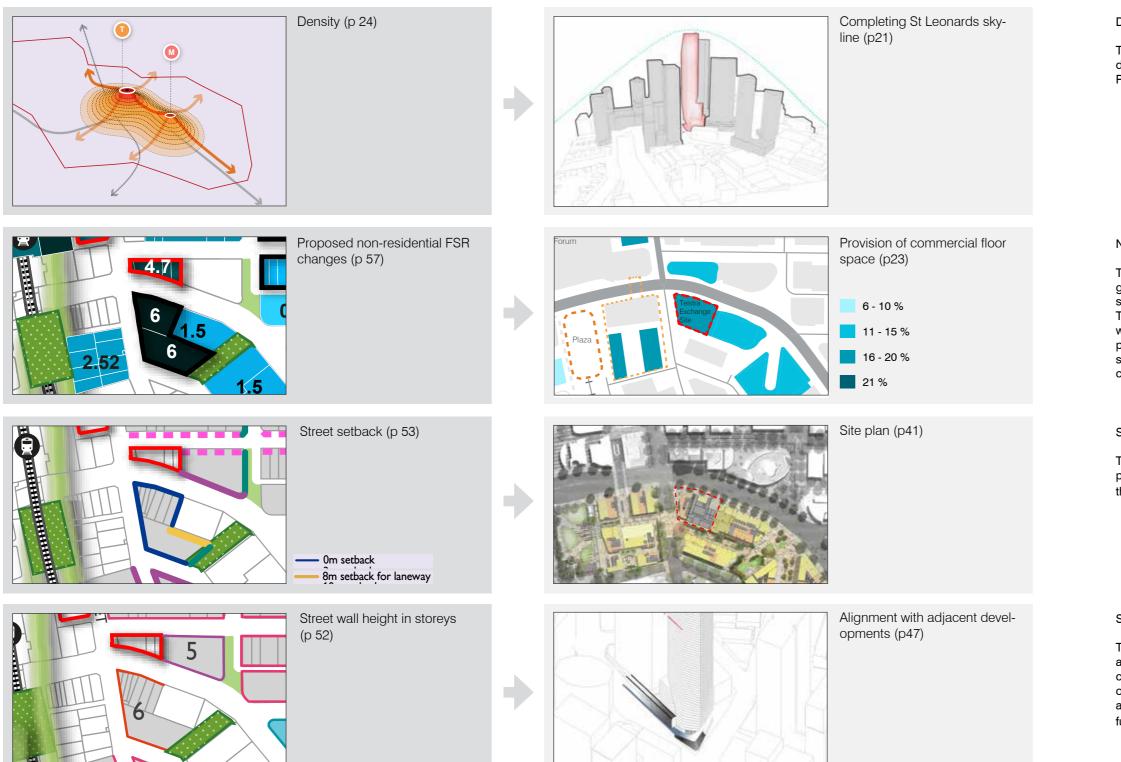
Generally, the plan envisages the following:

- New development clustered along the Pacific • Highway between the new Crows Nest Station and existing St Leonards core.
- Protection of existing heritage and heritage • conservation areas.
- Improvements to the movement network in the area, • including better walking and cycling routes.
- A high-quality built form outcome that respects and • enhances the existing local character of the area.
- Support for St Leonards and Crows Nest as an employment hub, providing 16,500 additional jobs over the next 20 years.
- A greater diversity of dwellings to cater to future ٠ residents of the area.
- Protection of existing and provision of additional open ٠ spaces for local residents to enjoy.

## CONTEXT | PTW SUMMARY OF PP RELATIVE TO HEADINGS WITHIN THE DRAFT PLAN

### DRAFT ST LEONARDS AND CROWS NEST 2036 PLAN

PLANNING PROPOSAL



**DENSITY - HEIGHT** 

The proposal for the site is consistent with the height peak described in the Draft St Leonards and Crows Nest 2036 Plan.

#### NON-RESIDENTIAL FSR CHANGES

This proposal seeks a larger quantum of employment generating floor space than other planning proposals submitted to Lane Cove council in the Precinct.

The site is restricted by the unmovable Telstra Exchange which also eliminates the possibility of below ground parking. If the volume of the Telstra Exchange and the car stacker would be converted into commercial levels the commercial FSR would exceed 6:1.

#### STREET SETBACK

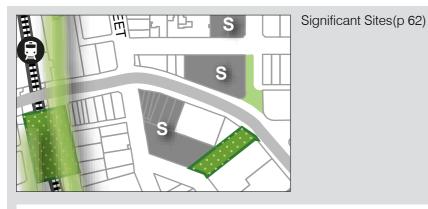
The proposal contributes to the public domain by providing larger setbacks at ground level and activating the adjacents pedestrian links with retail offerings.

#### STREET WALL HEIGHT

The proposal continues the podium alignments of the adjacent New Hope development. Towards the prominent corner of Christie St and Pacific Highway, the lower levels of the building step back in relation to the tower above and the shaped high-rise form can be appreciated in its full extent.

## CONTEXT | PTW SUMMARY OF PP RELATIVE TO HEADINGS WITHIN THE DRAFT PLAN

#### DRAFT ST LEONARDS AND CROWS NEST 2036 PLAN



Significant Sites must demonstrate consistency with the vision, area wide design principles and design criteria in this Plan (page 4, 10 & 11) and deliver exceptional design quality and contribute to the following:

- Undertake a design excellence process.
- Sustainable, walkable and liveable city.
- Meet solar height planes in this Plan (identified in figure 11 on page 26).
- Manage cumulative overshadowing impacts of significant sites in the area. Consider actions and recommendations dentified in the draft Plan.
- Respond to street character and surrounding heritage items and/ or areas when determining street wall height, awnings and ground and upper level setbacks.
- Exemplary street level activation and contribution to the public domain with ground level setbacks, plazas or similar.

Friedlander Place

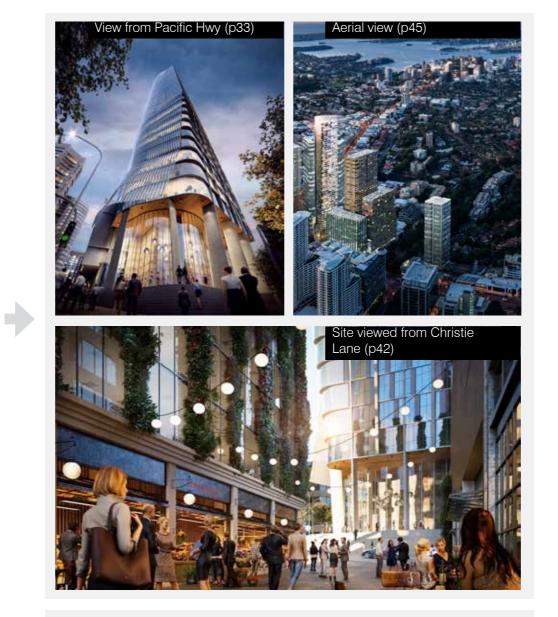
under construction

- Have a positive impact on the area's key view lines and vistas, with consideration of a visual marker of an important place.
- Slender towers (smaller floor plate) to avoid bulk.
- Make significant improvements to the public domain and local infrastructure.
- Provide gradual transitions, sensitive interfaces and an appropriate response to the scale of the street (using a combination of street wall heights, ground and upper level setbacks).
- Avoid unreasonably constraining development potential of neighbouring sites.
- Tree canopy planting or other landscaping in public spaces on site.

Street wall height in storeys (p 52)

F = Station to Station Link with Active frontage

#### PLANNING PROPOSAL





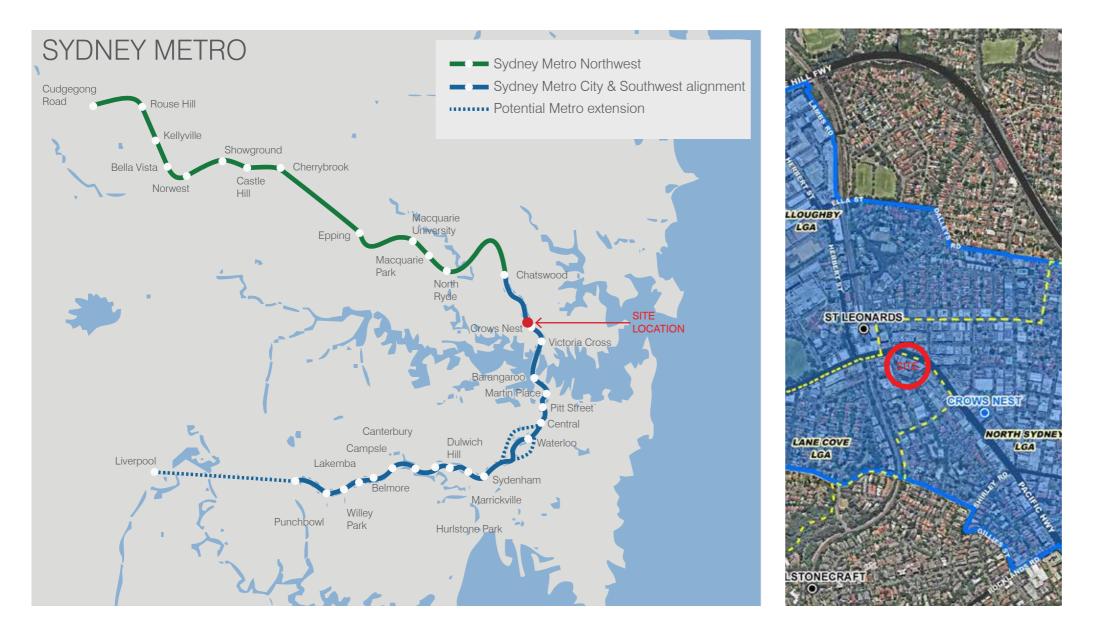
#### SIGNIFICANT SITES - DESIGN CRITERIA

The new development seeks to enhance and animate pedestrian links. Its proposed height complements the St Leonards skyline and is the result of a detailed investigation to minimise overshadowing impact on public open space in particular Newlands Park to almost 0%. Located at the prominent corner of Pacific Highway and Christie Street the new tower provides a focal point through its slender curving form and monumental foyer. It continues setbacks and podium alignments of adjacent developments and responds to the scale of each of the surrounding streets and laneways.

#### PLACE ACTIONS

The Draft Plan proposes a station to station link with active frontage along the south of the site which currently is occupied by the unmovable Telstra Exchange with its solid brick wall built to the boundary line. The proposal seeks to enhance and animate the blanc wall through facade treatment. It carefully sets back the wall on ground level in order to introduce shallow retail.

## CONTEXT | PTW SYDNEY METRO - CROWS NEST STATION





**BARANGAROO STATION** 



CROWS NEST STATION



MARTIN PLACE STATION

#### SYDNEY METRO

The Chatswood to Sydenham section of the \$11B Sydney Metro Rail Project, Sydney Metro City and Southwest Rail project, will include new metro stations at Crows Nest, Victoria Cross in North Sydney, Barangaroo, Martin Place, Pitt Street, Central and Waterloo.

The project will result in around 30 million fewer car trips annually in 2036. The new line will provide a dramatic increase in rail service capacity, a metro trip from Chatswood to Central will take just 15 minutes - 11 minutes faster than the existing suburban railway system

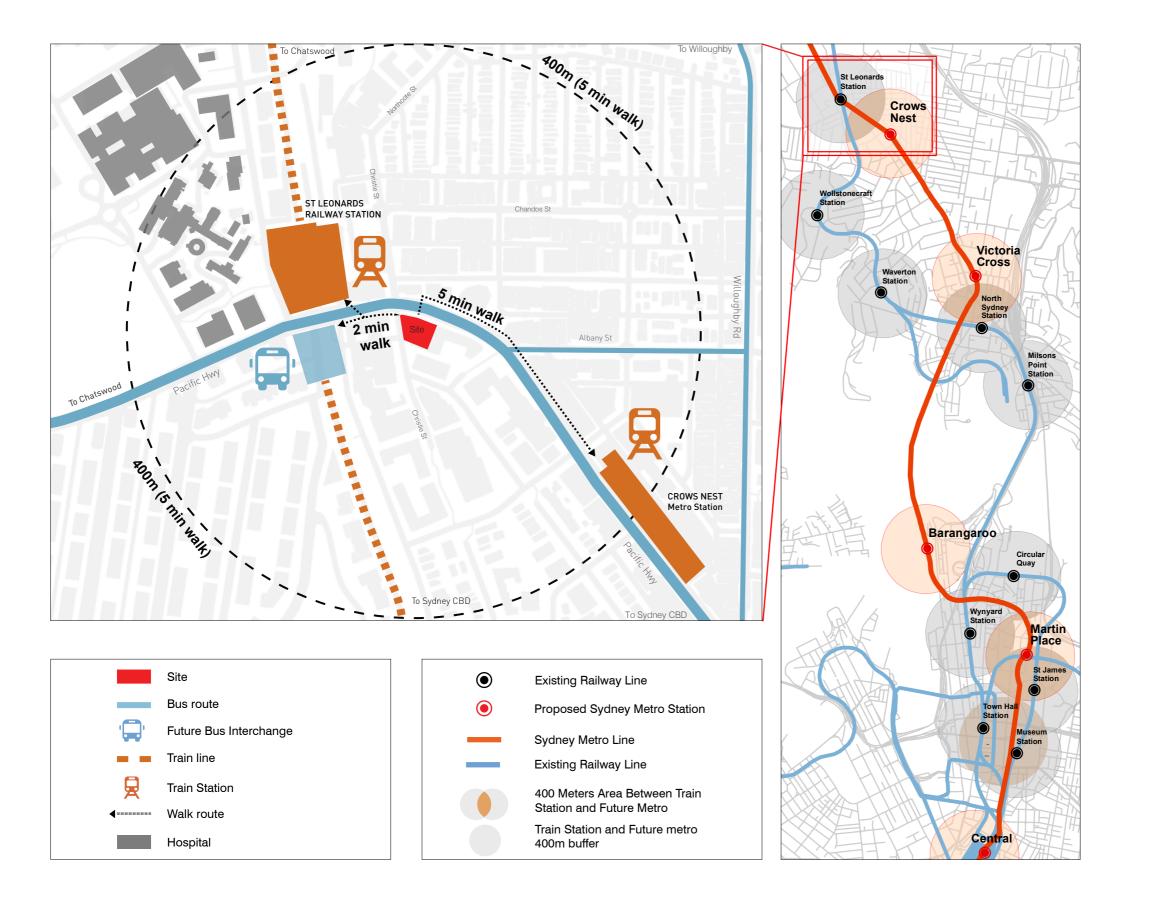
#### CROWS NEST STATION

The new Crows Nest Metro Station, located the corner of Oxley Street and Pacific Highway, is within 350 m walking distance to the site. Scheduled to be opened in 2024, as part of the 'City & Southwest' section of the project, the new Metro rail will provide 15 services per hour during peak times.

The Department of Planning & Environment recently released a rezoning proposal for Crows Nest Station, which when finalised, will facilitate a 27-storey over-station development alongside the delivery of the Crows Nest Metro Station.



## CONTEXT | PTW TRANSIT ORIENTED DEVELOPMENT



#### TRANSPORT NETWORK

Located just 50 m from St Leonards Station and 350 m from the new Crows Nest Metro Station, the site provides a unique opportunity for transit oriented development as one of few significant land holdings in Sydney to be within 400 m of two heavy rail stations.

Strong provision of existing transport infrastructure (St Leonards train station, multiple bus services and Pacific Highway - a major arterial road) provide residents with access to a significant opportunities for employment, underpinning the area's value as a highly functional mixed-use precinct. At Present, St Leonards Station provides residents with access to approximately 520,000 jobs within a 20-minute train ride.

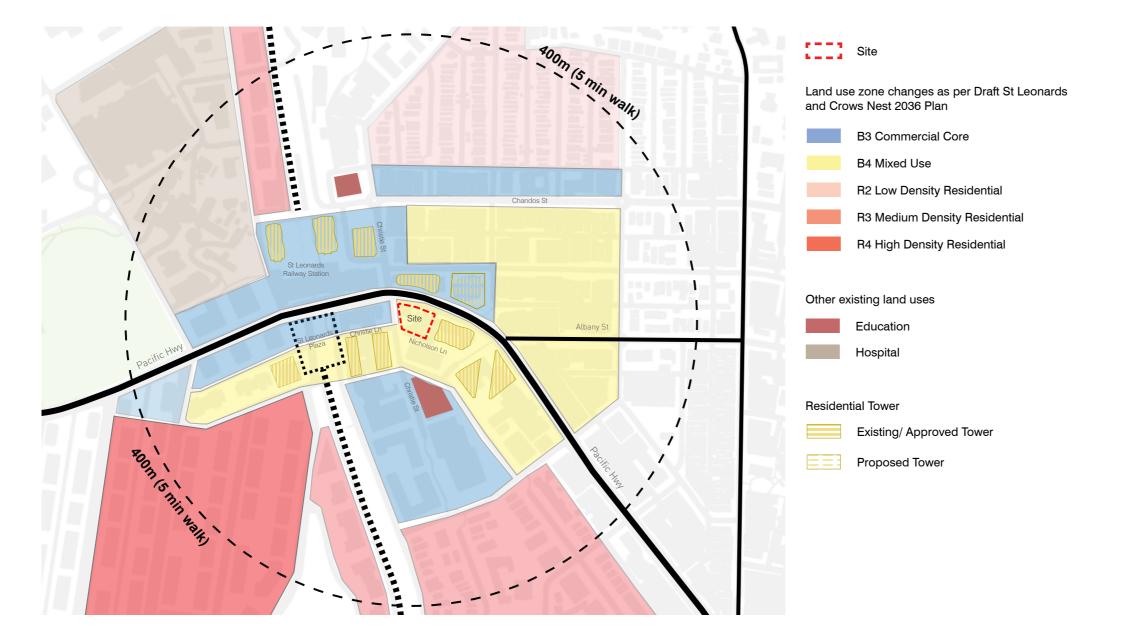
Significant investment in future public transport infrastructure in the immediate area (Crows Nest Metro Station and St Leonards Bus Interchange) will further increase access to employment with direct links to key employment hubs, including Macquarie Park, Barangaroo, and Sydney CBD.

This investment in infrastructure further highlights the strategic significance of St Leonards as a provider of high-amenity mixed-use housing choice in the immediate vicinity of both stations, particularly within DPE's walking distance guidelines for commuters.

Looking at the diagram, it is apparent that the Telstra Exchange site will be one of only a small number of sites located outside of Sydney CBD to be within the 400 m walking catchment of both an existing heavy rail line and a new Metro station.



## CONTEXT | PTW SURROUNDING LAND USES





88 CHRISTIE ST



ROYAL NORTH SHORE HOSPITAL NEW BUILDING



ST LEONARDS SQUARE, NEW HOPE

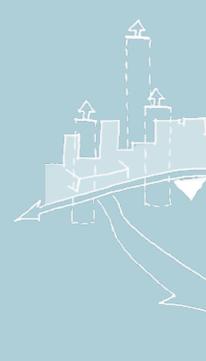
#### SURROUNDING LAND USES

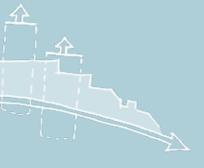
The site is adjacent to future mixed-use developments of significant height and density. Immediately north-west of the site is the St Leonards Forum, which current sits at the Centre's commercial, retail and transport hub.

Royal North Shore Hospital, north-west of St Leonards Station, is a key driver for employment in the area and will continue to thrive through its ongoing \$1 Billion redevelopment.

The core areas of activity at present are the Forum and the streets to its east, including Chandos Street. Future mixed-use developments south of Pacific Highway will increase activity in the Precinct, particularly in the vicinity of the upgraded retail offering along Christie Lane and the new St Leonards Plaza.

# 2. Transformation of Precinct







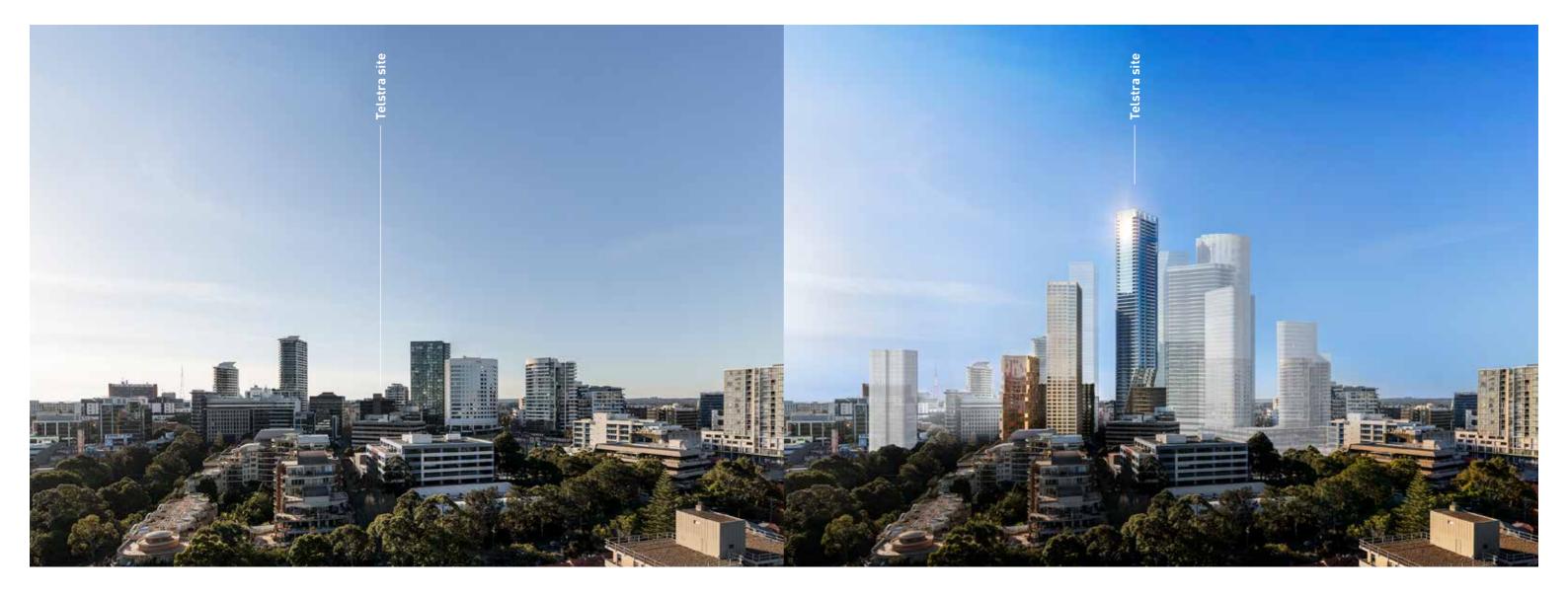
CURRENT

FUTURE

# TRANSFORMATION OF PRECINCT | PTW

ARTIST IMPRESSION OF POTENTIAL DEVELOPMENT AS PART OF 88 CHRISTIE STREET PROJECT

# TRANSFORMATION OF PRECINCT | PTW

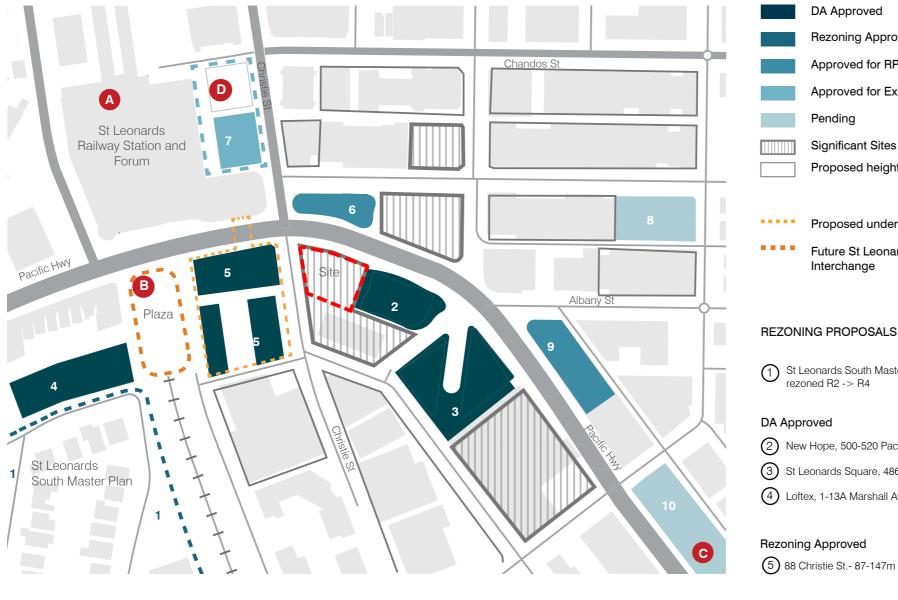


CURRENT

FUTURE

# I PTW

## **TRANSFORMATION OF PRECINCT** DEVELOPMENT OF ST LEONARDS PRECINCT



#### **KEY SITES**

D



В Bus Interchange

(C) Future Crows Nest Metro Station

100 Christie Street & Christie Street Reserve

## DA Approved **Rezoning Approved** Approved for RPA implementation Approved for Exhibition Pending Significant Sites Proposed height changes Proposed underground connection Future St Leonards Plaza / Bus Interchange **REZONING PROPOSALS** (1) St Leonards South Master Plan – rezoned R2 -> R4 (2) New Hope, 500-520 Pacific Hwy - 138m (3) St Leonards Square, 486 Pacific Hwy - 91-115m (4) Loftex, 1-13A Marshall Ave - 94m

#### Rezoning Approved for RPA Implementation

(6) Anson, 617-621 Pacific Hwy - 180m

9 597 Pacific Highway - 56m

#### Rezoning Approved for Exhibition

(7) 100 Christie St - 137m

#### Pending

(8) 21-35 Atchison Street - 56m

(10) Crows Nest Overstation Development

#### DEVELOPMENT OF ST LEONARDS PRECINCT

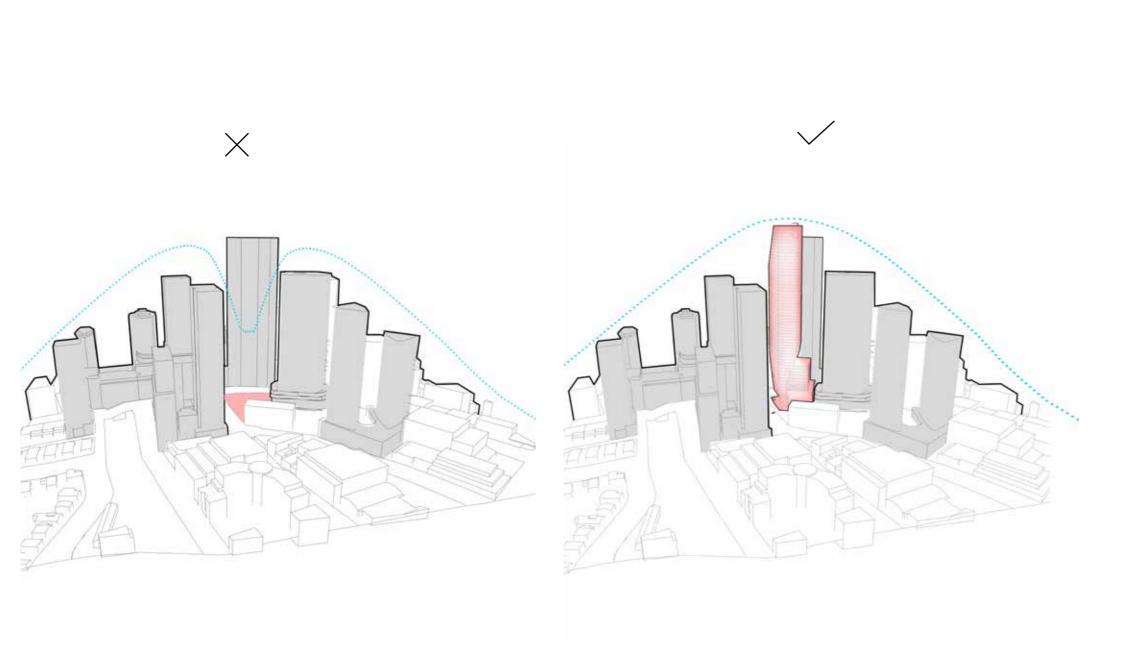
The St Leonards Centre is currently undergoing a transition from an ageing commercial precinct, to an active mixed-use area incorporating a mix of commercial and residential land uses.

This transition is being supported by current development activity, recent approvals and further planned development.

The diagram on the left documents recent rezoning approvals in the immediate vicinity of the site as well as recently lodged applications and sites identified as potential 'tall tower' sites under the Christie Street Masterplan released by North Sydney Council earlier this year.

These sites are all destined to be high rise, mixed-use developments with varying offerings of commercial floor space. The approval landscape here has transformed the character and scale of development in the precinct permanently, activating the area's "natural" centre through the provision of high-amenity connectivity to a range of land uses.

## TRANSFORMATION OF PRECINCT | PTW COMPLETING THE ST LEONARDS SKYLINE



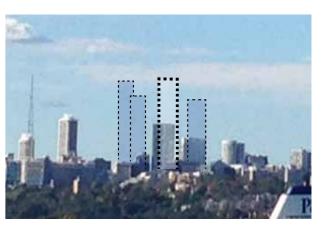
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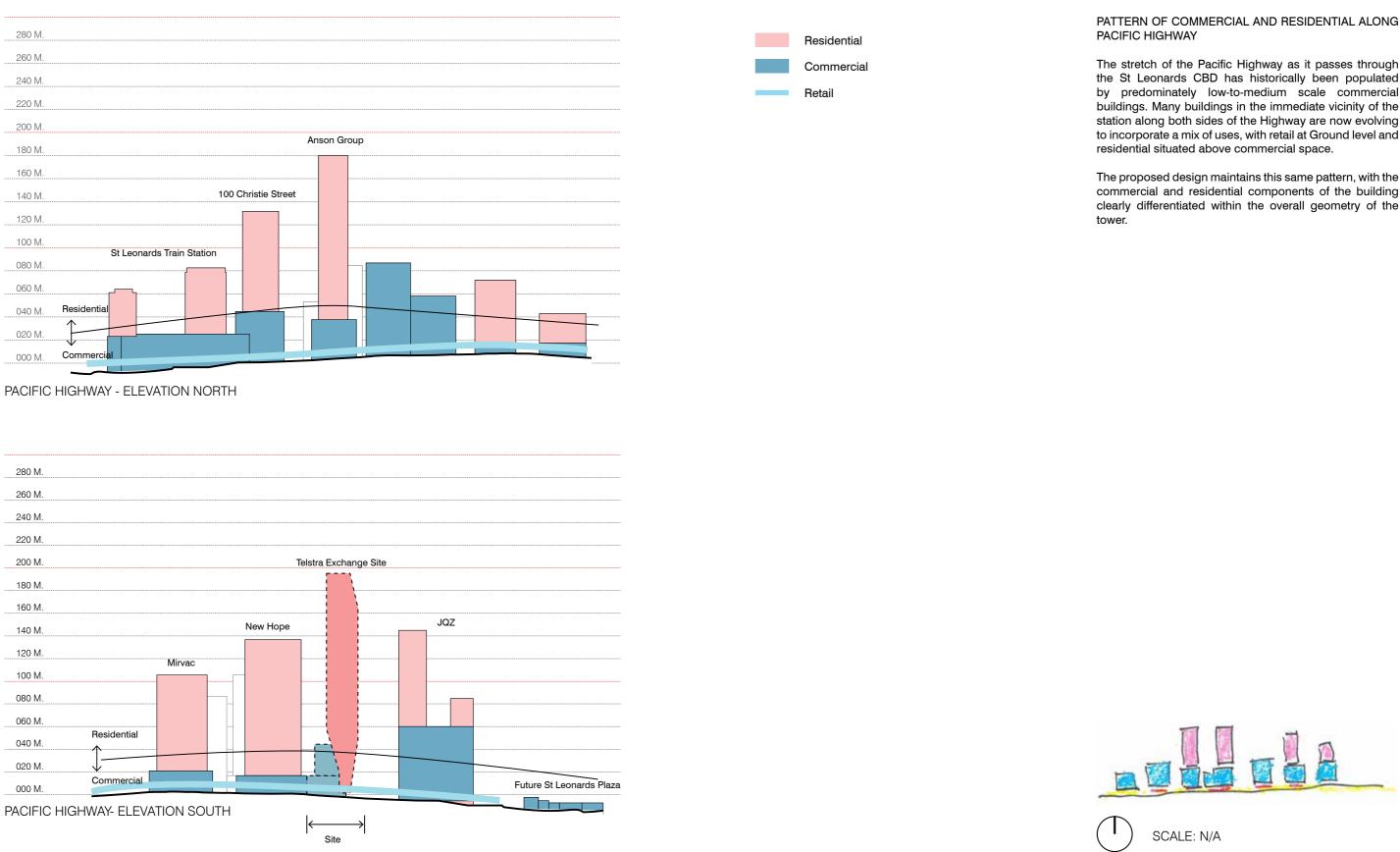
#### PROFILE OF ST LEONARDS

The St Leonards skyline has the beginnings of a 'bell' or 'pyramid' profile appropriate to the composition of the North Shore ridge, however it lacks cohesion due to significant gaps between buildings.

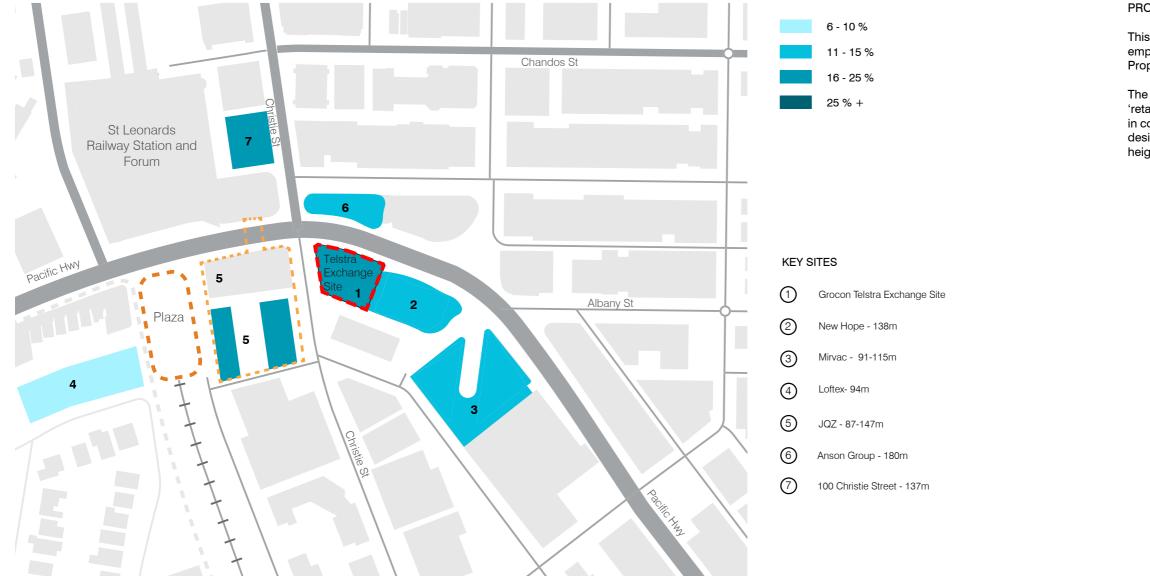
The Telstra Exchange site is centrally located within the future development context of the Centre and as such is perfectly located to accommodate a taller building form, stepping up towards the centre of the Precinct. The proposal in its scale, proportion and form will provide a focus for the St Leonards 'CBD' building group and complete the pyramid composition.



## TRANSFORMATION OF PRECINCT | PTW PATTERN OF COMMERCIAL + RESIDENTIAL ALONG PACIFIC HIGHWAY



## TRANSFORMATION OF PRECINCT | PTW **PROVISION OF COMMERCIAL FLOOR SPACE**



#### PLANNING PROPOSALS AT ST LEONARDS

|                                       | 1. Grocon Telstra<br>542 Pac Hwy | <b>2. New Hope</b><br>500-504 Pac Hwy | <b>3. Mirvac</b><br>472 - 486 Pac Hwy | 4. Loftex<br>1 Marshall Ave | 5. JQZ<br>88 Christie St * | 6. Anson Group<br>617-621 Pac Hwy | 7. Christie St<br>100 Christie St |
|---------------------------------------|----------------------------------|---------------------------------------|---------------------------------------|-----------------------------|----------------------------|-----------------------------------|-----------------------------------|
| Residential                           | 31,759                           | 41,511                                | 51,385                                | 24,721                      | 55,500                     | 21,860                            | 18,532                            |
| Commercial                            | 6,914                            | 6,357                                 | 8,263                                 | 290                         | 11,364 *                   | 3,450                             | 5,709                             |
| Total                                 | 38,756                           | 47,868                                | 59,648                                | 25,011                      | 66,864                     | 25,310                            | 24,241                            |
| No. of Commercial<br>Storeys          | 12                               | 9                                     | 4                                     | 3                           | 15                         | 5                                 | 6                                 |
| Commercial GFA as<br>a % of total GFA | 17.78%                           | 13.28%                                | 13.85%                                | 1.16%                       | 17.00%                     | 13.63%                            | 23.55%                            |
| LGA                                   | Lane Cove                        | Lane Cove                             | Lane Cove                             | Lane Cove                   | Lane Cove                  | North Sydney                      | North Sydney                      |

\* Only mixed-use building

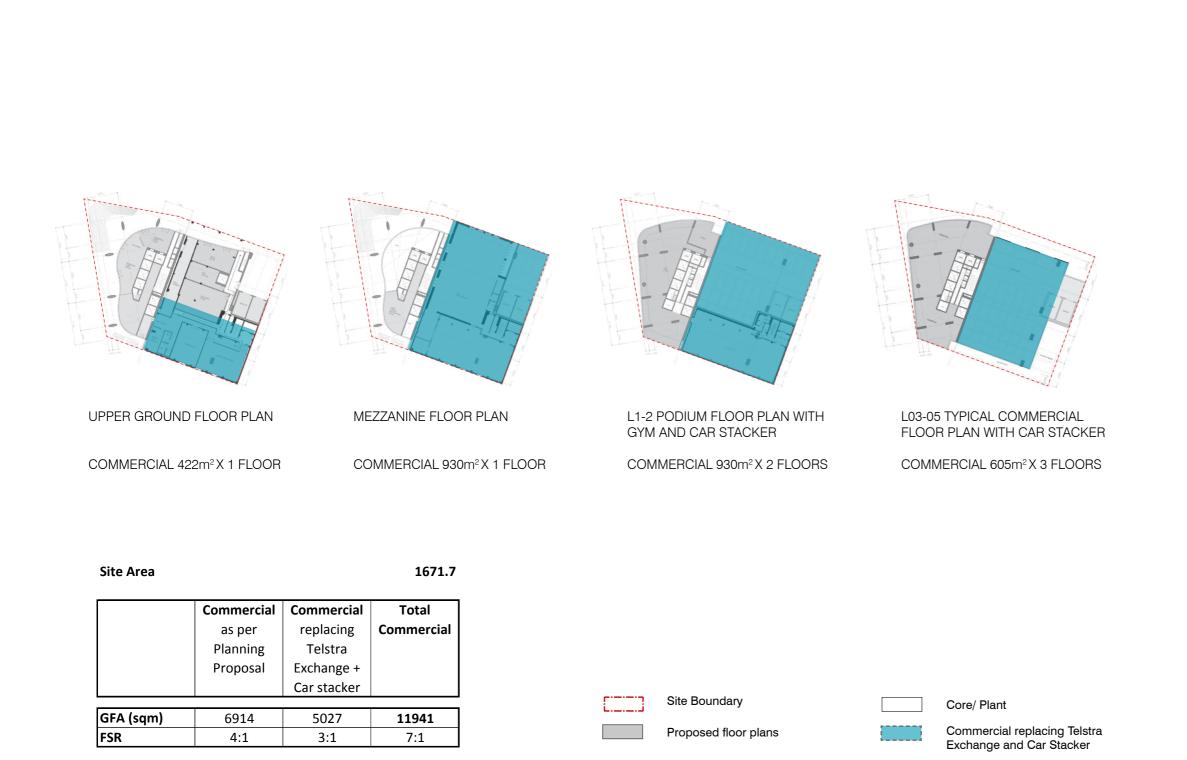
\* Including library

PROVISION OF COMMERCIAL FLOOR SPACE

This proposal seeks a significantly larger quantum of employment generating floor space than other Planning Proposals submitted to Lane Cove Council in the Precinct.

The offering here is in line with the strategic objective to 'retain a commercial core' in St Leonards. When considered in concert with current site constraints and intended urban design character for the area, it necessitates a building height in excess of 200m.

## TRANSFORMATION OF PRECINCT POTENTIAL COMMERCIAL FLOOR SPACE WITHOUT TELSTRA EXCHANGE



POTENTIAL COMNMERCIAL FLOOR SPACE WITHOUT TELSTRA EXCHANGE BUILDING

The analysis shows that without the constraints imposed by the Telstra Exchange building, additional commercial floor space equal to approximately 5,000 m2 could be provided. This would result in a total non-residential FSR of 7:1.

The development concept therefore includes space in excess of the 6:1 non-residential FSR nominated in the draft 2036 Plan, but is unable to technically achieve 6:1, due to the limitations of the GFA definition and the need for a car stacker within the podium of the building.

## TRANSFORMATION OF PRECINCT | PTW FUTURE CIVIC AND PUBLIC DOMAIN SPACES



### FUTURE CIVIC AND PUBLIC DOMAIN SPACES



ST LEONARDS SQUARE



NICHOLSON LANE



ST LEONARDS PLAZA

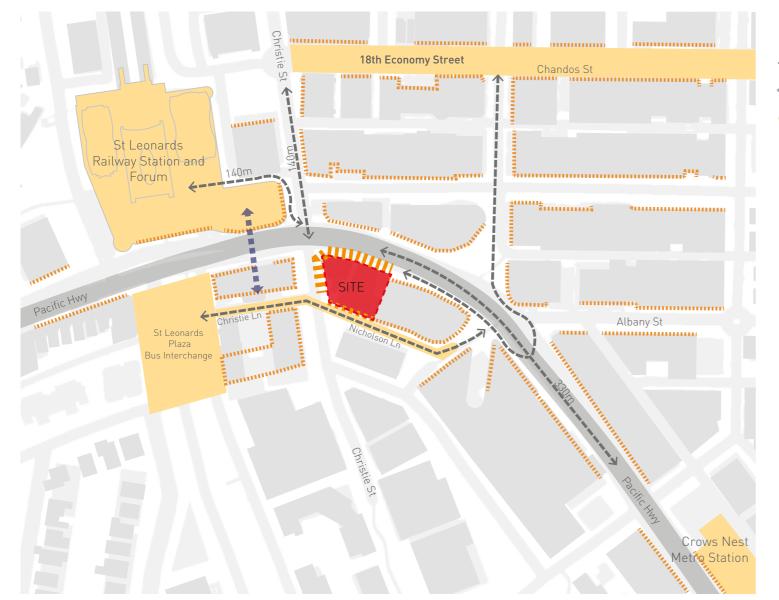
#### FUTURE CIVIC AND PUBLIC DOMAIN SPACES

The network of existing green and civic spaces in proximity to our site will be enhanced by important future public spaces such as the St Leonards Plaza and pedestrian links such Nicholson Lane.

The site occupies a 'keystone' location within the St Leonards centre, terminating the active laneway from the plaza over the railway as well as being highly visible to the Pacific Highway.

It has the potential to complete the missing public domain link between the pedestrian flow from the forum to the new network of plazas and laneways to the south of Pacific Highway and to the east of the site.

## TRANSFORMATION OF PRECINCT | PTW **FUTURE PEDESTRIAN LINKS**



|          | Existing and future main points of<br>destination |
|----------|---|
| <b>←</b> | Pedestrian connection                             |
| <■►      | Underground pedestrian connection                 |
|          | Active frontage                                   |
|          | Potential for activation                          |
|          |   |
|          |   |

FUTURE PEDESTRIAN LINKS





PACIFIC HIGHWAY NEW COMMERCIAL SPACES



ST LEONARDS BUS INTERCHANGE

#### CHRISTIE LANE

#### FUTURE PEDESTRIAN LINKS

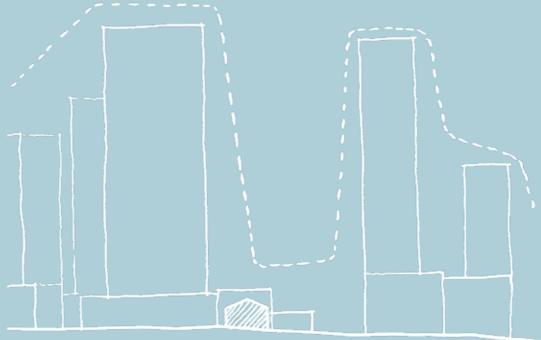
The site's surrounds will provide excellent amenity in regards to commercial and retail activity in the future.

New retail hubs such as the 18h Economy street and the activation around the new Crows Nest Station will improve the pedestrian flow. The planned developments along Pacific Highway and the St Leonards Plaza will offer ground floor activation with high pedestrian activity.

Because the site is central to future pedestrian connectivity, it will need to cater for the expected high pedestrian activity and provide space for a quality public domain.

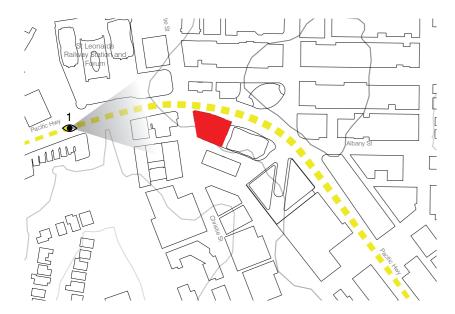
## TRANSFORMATION OF PRECINCT | PTW ST LEONARDS SUB-PRECINCT MASTER PLAN





3. Site Constraints and Opportunities

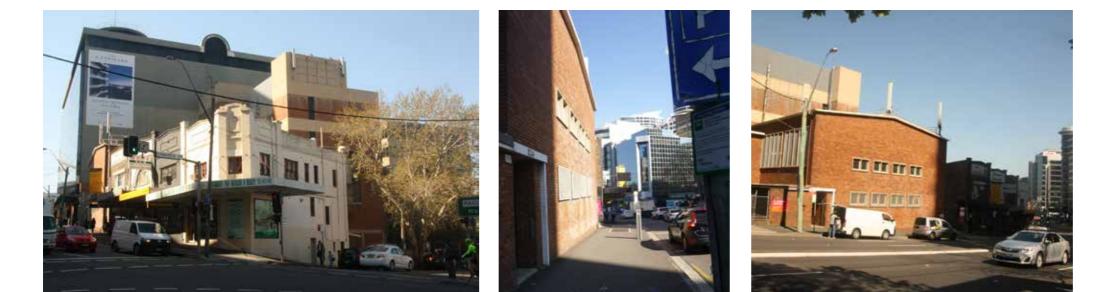
### I PTW SITE CONSTRAINTS AND OPPORTUNITIES POTENTIAL FOR URBAN RENEWAL



RIDGELINE ALONG PACIFIC HIGHWAY AND ST LEONARDS TOPOGRAPHY



1. LOW SCALE RETAIL FACING CHRISTIE STREET CORNER (PACIFIC HIGHWAY AND CHRISTIE STREET)



LOW SCALE RETAIL FACING CORNER OF PACIFIC HIGHWAY AND CHRISTIE STREET

NARROW FOOTPATH ALONG TELSTRA EXCHANGE FACADE

TELSTRA EXCHANGE STREET FRONTAGE TO PACIFIC HIGHWAY

#### RIDGELINE

The site is located on a crest, close to the topographical peak of St Leonards centre, making it a focal point when approaching from Pacific Highway. Due to the topography falling towards the harbour and the adjacent southern low scale residential areas, the site is highly visible from the south.

The current low scale retail lots paired with the 2 storey frontage of the Telstra Exchange create issues with the Pacific Highway street scape and do not reflect the importance of the corner at the intersection with Christie Street.

#### GAP

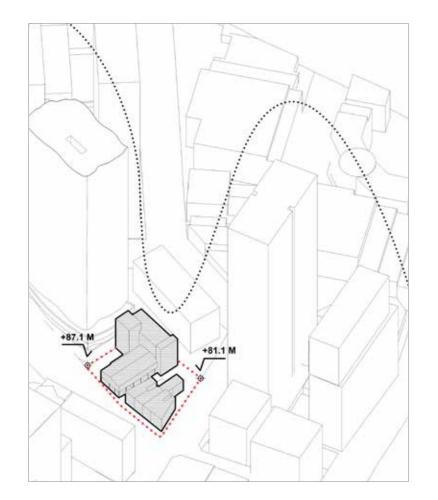
The existing buildings on the site present a visible gap in the urban landscape among the high scale future surrounding developments. They do not support the anticipated future pedestrian flow along Pacific Highway and along Christie St between Nicholson/ Christie Lane and the Forum. The facades of the retail lots and Telstra Exchange are built to the boundary along Pacific Highway and Christie St, leaving a narrow footpath and an unattractive street frontage.

The Telstra telephone exchange provides an important service to the community, but its built form restricts the future urban renewal of the precinct.

#### OPPORTUNITY

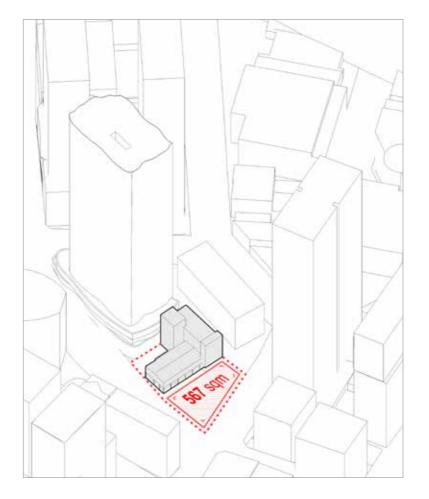
A new development for the site could fulfil the potential of the site as a gateway along Pacific Highway. Most importantly, a new development offers the opportunity to complete the pedestrian connectivity and create a quality public domain along the prominent street corner.

### | PTW SITE CONSTRAINTS AND OPPORTUNITIES SITE CONSTRAINTS



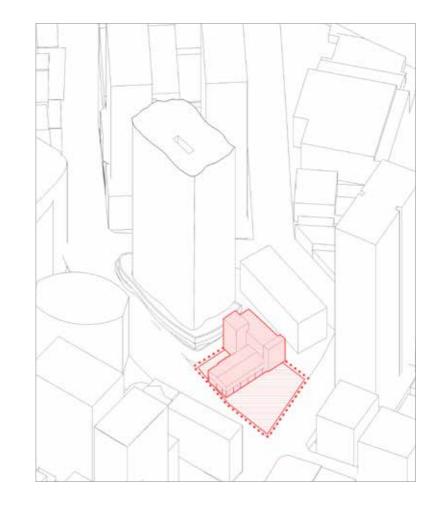
#### ISSUES OF EXISTING SITE AND BUILDINGS

- Gap among future high scale developments
- Urban design issues with low scale built form at prominent corner •
- Fragmented retail lots ٠
- 6 m fall between north-east and south-western corner of site



#### AVAILABLE SITE AREA

- •
- Immovable Telstra Exchange Building Lots adjacent to Telstra Exchange too small for viable new • development (narrow floorplate)



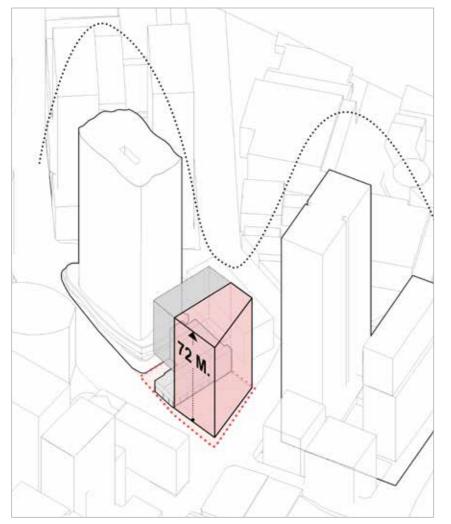
### AMALGAMATION

development

· Amalgamation of the sites provides an opportunity for viable

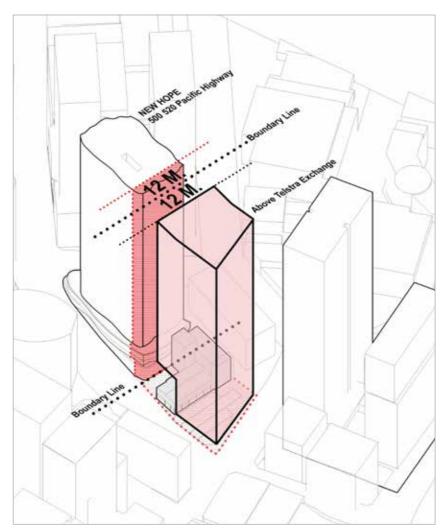
 The continuing operational presence of the Exchange necessitates significant structural provisions to enable the construction of floors above the Exchange

### PTW SITE CONSTRAINTS AND OPPORTUNITIES SITE CONSTRAINTS



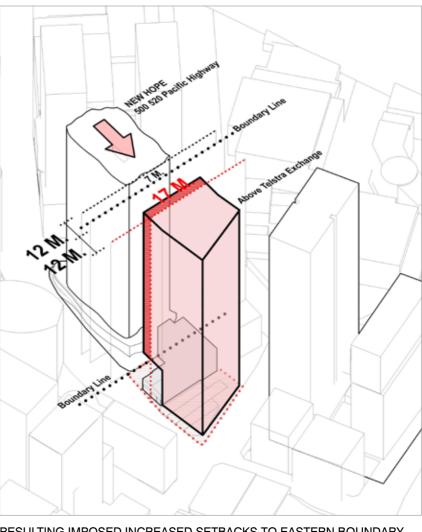
CURRENT PLANNING CONTROLS

- The structural challenge to build above the operating Exchange building comes at a considerable economic cost.
- ٠
- A height restriction of 72 m is hindering commercially viable development. A medium scale development fails to give an adequate urban response to the prominent street corner and does not relate to the increased height of • the surrounding buildings.



NON-COMPLIANCE OF ADJACENT DEVELOPMENT

- The ADG identifies building separation requirements in residential/ mixeduse areas as 12 m between habitable rooms and boundary for all storeys above L8.
- The proposed residential tower of the New Hope development provides 7 • m to the boundary - a further 5 m would be required to comply.



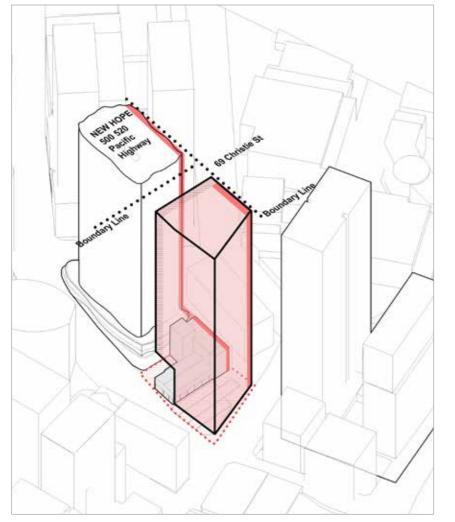
- residential floor space.

RESULTING IMPOSED INCREASED SETBACKS TO EASTERN BOUNDARY

• In order to maintain a building separation of 24 m between habitable rooms, the residential tower on the site will need to provide an additional 5m setback to the normally required 12 m.

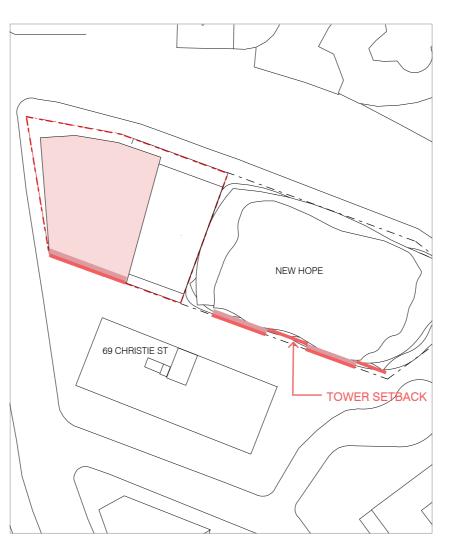
• The imposed 17 m setback reduces the residential floorplate and valuable

### | PTW SITE CONSTRAINTS AND OPPORTUNITIES SITE OPPORTUNITIES



ADAPTED SOUTH SETBACK OF ADJACENT NEW HOPE BUILDING

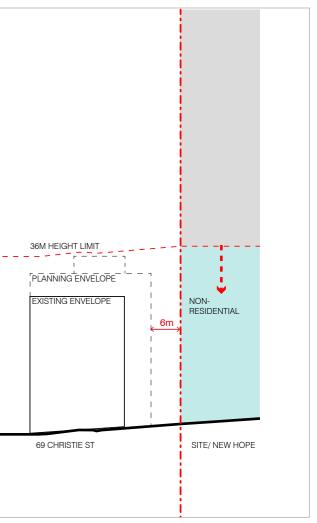
- The adjacent DA approved New Hope development provides 0-3m setback • to the southern boundary.
- The existing Telstra Exchange is built to the southern boundary line.



#### ADAPTED NEW HOPE ALIGNMENT

- At tower level the residential facade / balcony line of the New Hope development touches the southern boundary in sections.
- The proposed residential tower on the site has a very narrow frontage to ٠ the south.

- limit may be.
- current height limit.



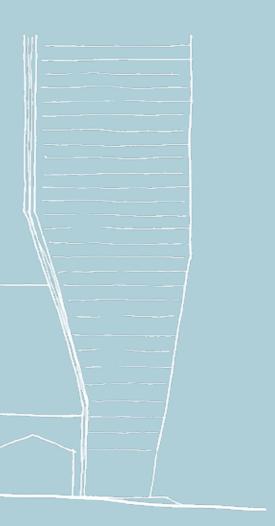
RELATIONSHIP TO 69 CHRISTIE ST - NEW HOPE'S APPROACH MIRRORED

• New Hope was approved with a nominal setback to 69 Christie Street. In

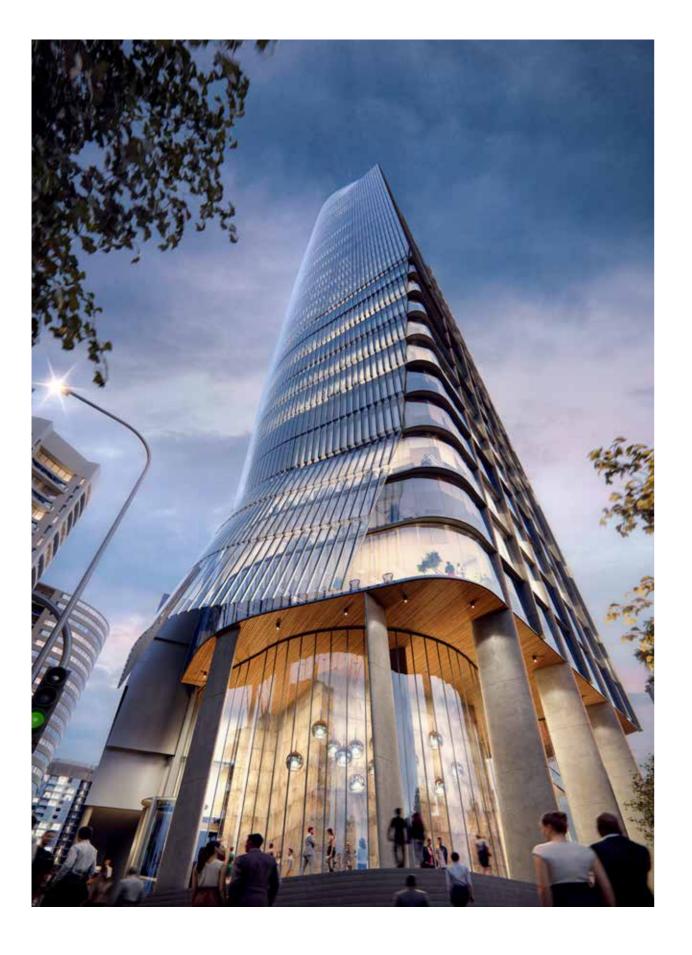
the DA the following points were described: The maximum height of 69 Christie Street is 36m, and the proposed development cannot be expected to speculate on what the future height

• Non-residential uses are provided to a height of 36m, eliminating any possible interface issues should 69 Christie Street be redeveloped to the

# 4. Design Response



## DESIGN RESPONSE | PTW



#### **DESIGN VISION**

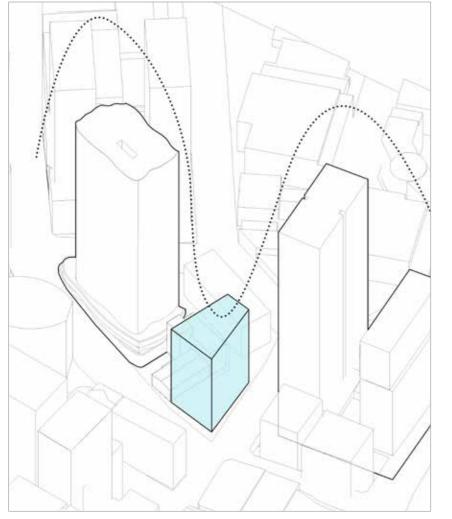
St Leonards is experiencing a period of rapid transformation with a new vision for a dynamic and wellcoordinated public domain, major investment in rail and bus infrastructure and a number of significant new mixeduse building projects, in addition to the recent expansion of North Shore Hospital.

The vision for this project is to create a building which, through the quality of its architecture and the sophistication of its integration with the public domain, will itself manifest the spirit of this important centre.

The challenges of the existing use have generated an unusual and iconic building form; tapering at the lower levels to allow structure and services to thread between the existing immovable ground level use of the site. The design will provide a focus for the town centre, elegant and sculptural in its slender curving form, distinctive when seen from a distance and rich and compelling when experienced as a pedestrian. The design proposes a monumental foyer intended to bring the colour and animation of the adjacent laneway system into the building as well as creating a dramatic space well visible from the adjacent highway.

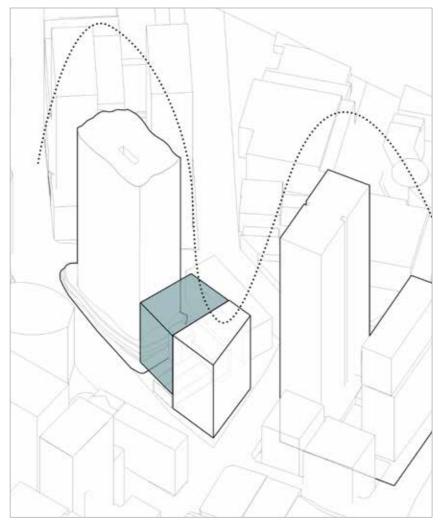
## DESIGN RESPONSE | PTW THE ROLE OF THE TELSTRA SITE IN THE ST LEONARDS URBAN FABRIC





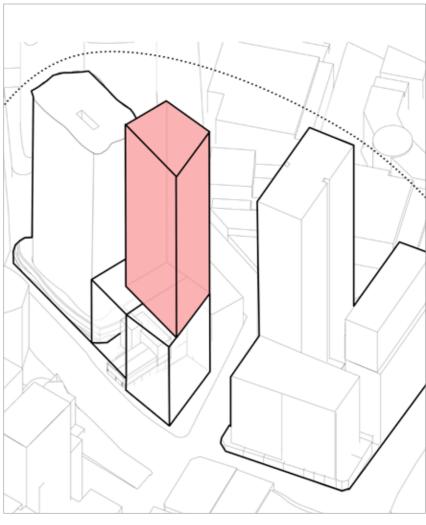
COMMERCIAL BUILDING ADJACENT TO TELSTRA EXCHANGE

• A building encompassing only the western portion of the site would not allow for viable development due to small and narrow floorplates.



COMMERCIAL FLOOR ABOVE TELSTRA EXCHANGE

• Construction above the Exchange is cost intensive.

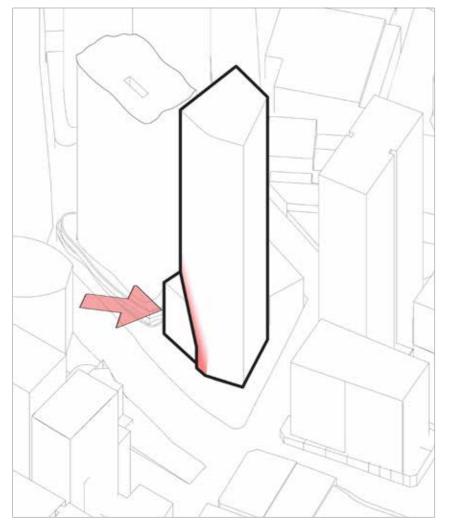


RESIDENTIAL TOWER

## DESIGN RESPONSE | PTW SITE STRATEGY

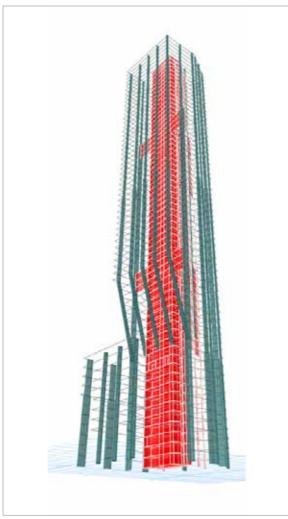
 A residential high-rise is the logical urban response and mitigates additional construction costs on lower levels.

### DESIGN RESPONSE | PTW **CONCEPT PARAMETERS**



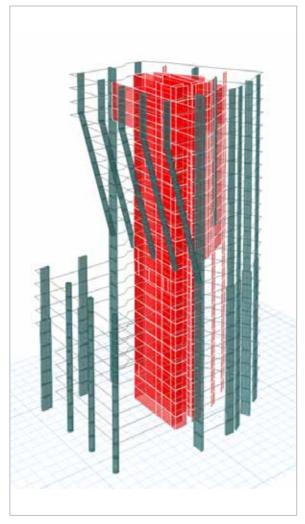
STEPPING BACK THE STRUCTURE

• The 57-storey tower is proposed to extend up to 12m over the existing Telstra Exchange building, but is not able to either impose any load onto or run any load-bearing structure through the existing building.

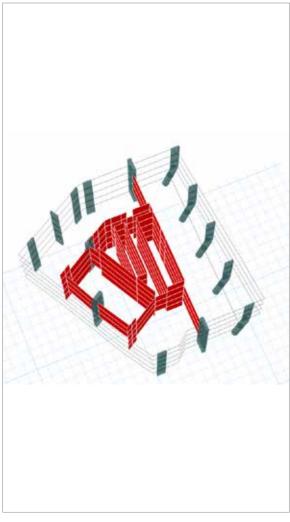


An innovative transfer solution is proposed, in which tower columns along the eastern edge of the residential floors are splayed back to the core over 12 storeys from Level 22 down to Level 10

٠

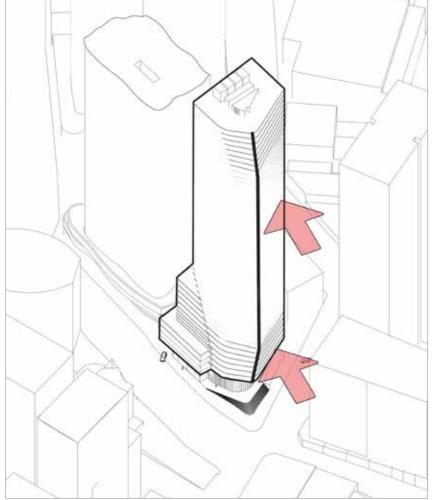


The overturning effect of the splayed tower • columns are supported by an outrigger system, which engages tower columns along the western edge of the residential floors all the way to the footings via deep outrigger walls.



• This solution has proved the most architecturally elegant and structurally efficient when compared with the other conventional load-transfer options. It eliminates the need to build a transfer system (minimum two-storeys), with over-sized transfer columns and footings next to the existing building.

## DESIGN RESPONSE | PTW **URBAN RESPONSE**



### RESHAPING CORNER

- The tapering at the lower levels emphasises the prominent street corner and creates a setback to Christie Street.
  It enables the tower columns to visibly continue down to the ground which provides the building with an uplifting, elevated expression.
  The twisted tapered top creates a distinctive built form recognizable from update.
- a distance.

COCONOUT GROVE, MIAMI - BIG

12210





NILE TOWER, CAIRO - ZAHA HADID





TRANSBAY BLIOCK 8, SAN FRANCISCO - OMA

# DESIGN RESPONSE | PTW **PUBLIC DOMAIN CREATION**



CREATING PUBLIC DOMAIN ON GROUND FLOOR

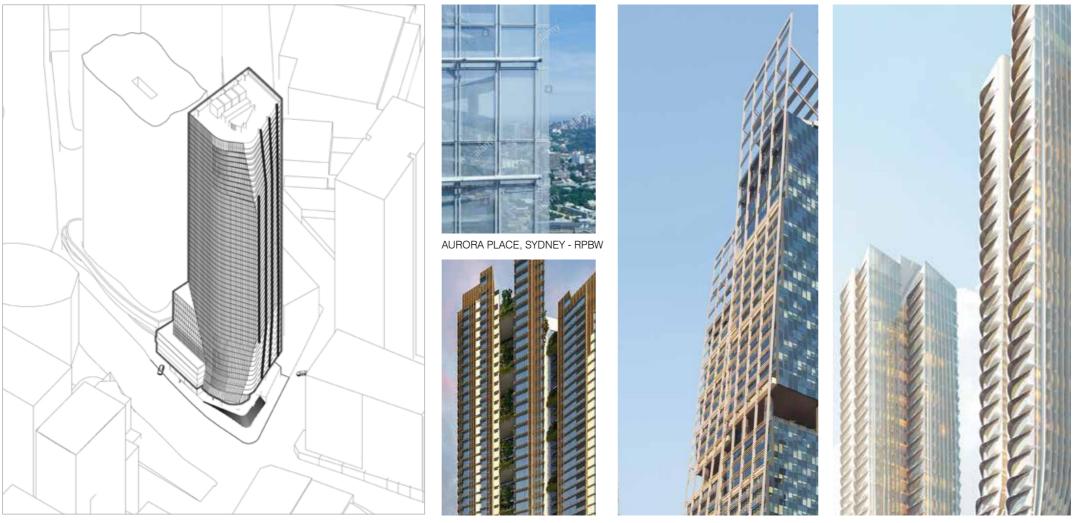
- The design proposes a grand monumental foyer intended to bring the colour and animation of the laneway into the building as well as being of a scale and expression compatible with the Pacific Highway.
- Integration with the surrounding public domain is an important consideration here, given the site's prominence as the termination point for pedestrians travelling east along the upgraded Christie Lane from St Leonards Plaza.

1 BLIGHT STREET, SYDNEY - ARCHITECTUS



1 BLIGHT STREET, SYDNEY - ARCHITECTUS

### DESIGN RESPONSE | PTW **FACADE PARAMETERS**



A SCULPTURED FORM CREATING A GATEWAY

- The site represents a unique opportunity to revitalise the built form at a prominent gateway location and a keystone activation point for the precinct.
- The building design with its strongly articulated vertical fluting and curved north face (that follows the curve of the corner of the highway) and raking geometry in elevation will create a striking sculptural form further emphasising this important corner.
- 443 QUEEN STREET, BRISBANE - ARCHITECTUS

BEACH ROAD TOWERS, SINGAPORE -FOSTER AND PARTNERS

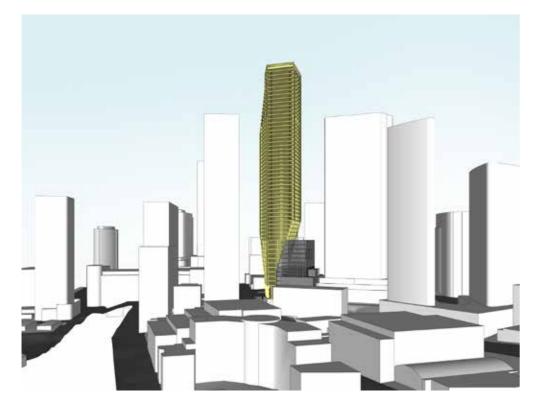
GROVE TOWERS, MUMBAI - 3XN

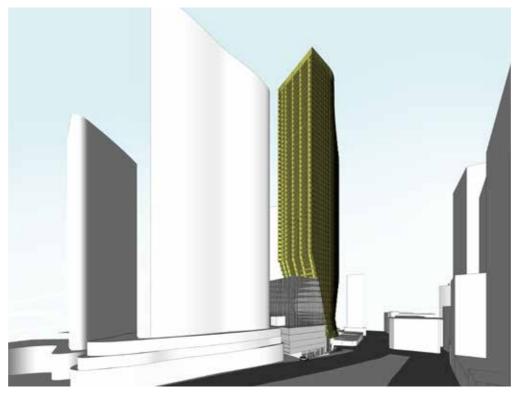


AURORA PLACE, SYDNEY - RPBW

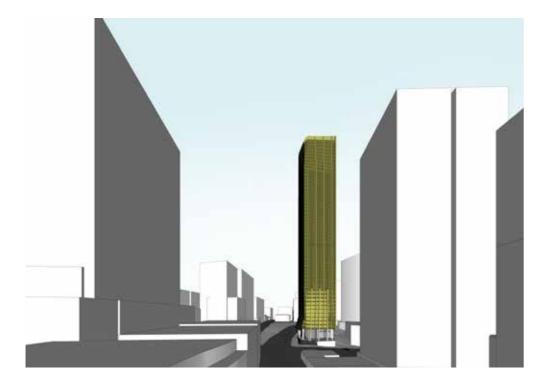


DIAGRAM OF BUILDING FORM



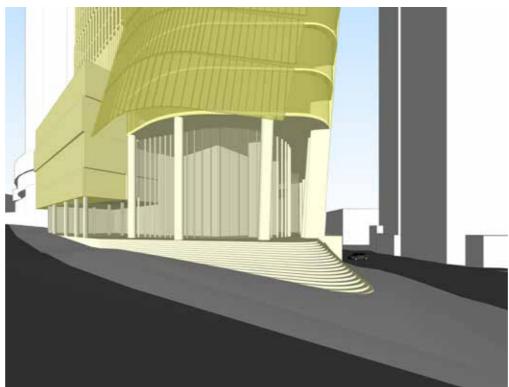


VIEW FROM THE SOUTH



VIEW FROM THE WEST ALONG PACIFIC HIGHWAY

VIEW FROM THE NORTH-EAST ALONG PACIFIC HIGHWAY



VIEW FROM THE CORNER CHRISTIE ST WITH PACIFIC HIGHWAY

### DESIGN RESPONSE | PTW **CONTEXTUAL IMAGES**

### THE BUILDING IN ITS CONTEXT

The building has been carefully designed and located on its site to respect and maintain the amenity of its neighbours whilst its curved and tapering form to respond to the bend of the Pacific Highway and the technical challenges of its site.

Its location at this important bend in the Pacific Highway and its pared composition with the tall tower proposed opposite to the north will create a gateway to the St Leonards CBD.

The towers elegant form and tapering shape will ensure that it will be perceived as an iconic landmark.

### DESIGN RESPONSE | PTW **VISION FOR PUBLIC DOMAIN**



ARTIST IMPRESSION OF POTENTIAL DEVELOPMENT AS PART OF 88 CHRISTIE STREET PROJECT

#### VISION FOR PUBLIC DOMAIN

The public domain in this area between the new St Leonards Plaza and Friedlander Place will be linked through the new developments and the active laneway system. Christie and Nicholson Lanes provide the eastwest connections between the major sites of this precinct. These lanes must encourage activity, must extend the vitality of the new plaza and most importantly create a new southern frontage to the sites along the Highway.

The proposed design for the site incorporates active frontages to the Highway, to Christie Street and most significantly to Nicholson Lane.

Our preliminary discussions with the Department of Planning also identifies the importance of adjacent sites continuing the animated frontages to Nicholson Lane. We have included in our proposal a vision for an integrated built form public domain and are confident that the site will play its part in this important area.

## DESIGN RESPONSE | PTW SITE PLAN VISION



POSSIBLE GROUND LEVEL USES OF ADJACENT SITES TO ACTIVATE NICHOLSON LANE

## DESIGN RESPONSE | PTW **VIEW 2 - CHRISTIE LANE**



ARTIST IMPRESSION OF POTENTIAL DEVELOPMENT AS PART OF 88 CHRISTIE STREET PROJECT

## DESIGN RESPONSE | PTW **VIEW 2 - NICHOLSON LANE**

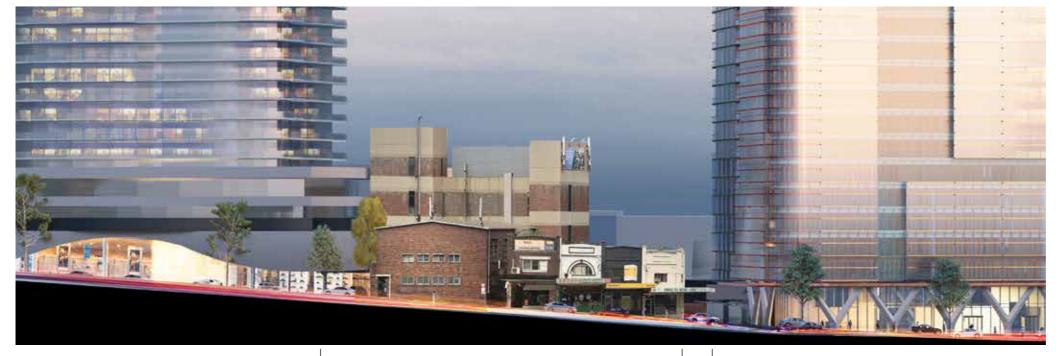


ARTIST IMPRESSION OF POTENTIAL DEVELOPMENT AS PART OF 88 CHRISTIE STREET PROJECT

5. Importance of Developing the Telstra Site

# IMPORTANCE OF DEVELOPING TELSTRA EXCHANGE SITE PTW THE IMPACT OF NOT DEVELOPING TELSTRA SITE

### UNDEVELOPED TELSTRA SITE



NEW HOPE DEVELOPMENT

UNDEVELOPED TELSTRA SITE

JQZ DEVELOPMENT

### DEVELOPED TELSTRA SITE



# IMPORTANCE OF DEVELOPING TELSTRA EXCHANGE SITE PTW

THE IMPACT OF NOT DEVELOPING TELSTRA SITE - TELSTRA EXCHANGE BUILDING





VIEW WEST FROM PACIFIC HIGHWAY

VIEW SOUTH FROM PACIFIC HIGHWAY



VIEW WEST DOWN PACIFIC HIGHWAY

VIEW EAST DOWN PACIFIC HIGHWAY

VIEW EAST FROM CHRISTIE STREET

# IMPORTANCE OF DEVELOPING TELSTRA EXCHANGE SITE PTW

THE IMPACT OF NOT DEVELOPING TELSTRA SITE - INCOMPLETE URBAN 'SPINE'



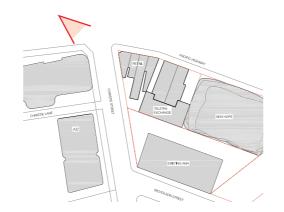
POSSIBLE GROUND LEVEL USES OF ADJACENT SITES TO ACTIVATE NICHOLSON LANE

# | PTW

### IMPORTANCE OF DEVELOPING TELSTRA SITE A CONTINOUS ANIMATED PUBLIC DOMAIN ALONG THE PACIFIC HIGHWAY

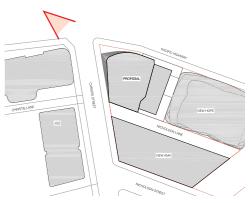
UNDEVELOPED TELSTRA SITE

ARTIST IMPRESSION OF POTENTIAL DEVELOPMENT AS PART OF 88 CHRISTIE STREET PROJECT



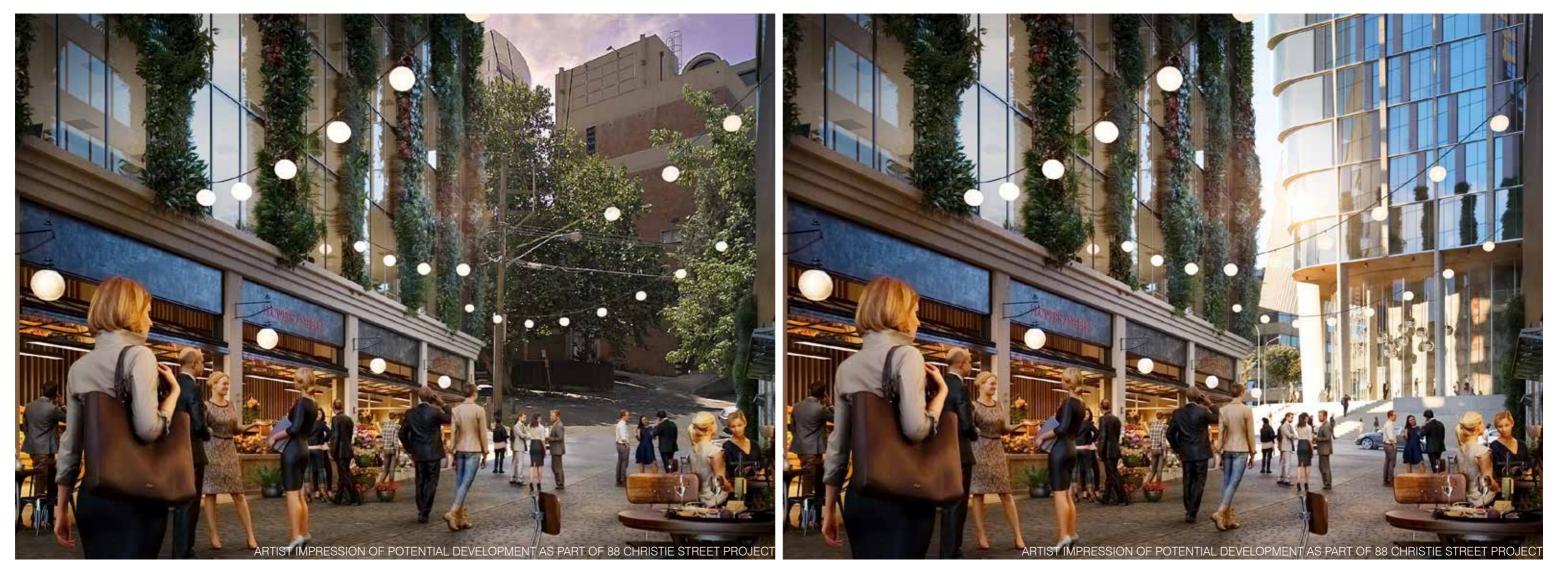
DEVELOPED TELSTRA SITE



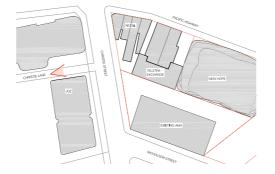


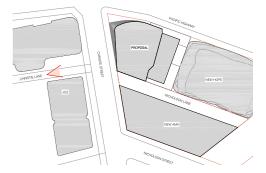
### | PTW IMPORTANCE OF DEVELOPING TELSTRA SITE AN ACTIVATED LANEWAY PRECINCT

UNDEVELOPED TELSTRA SITE



DEVELOPED TELSTRA SITE





### | PTW IMPORTANCE OF DEVELOPING TELSTRA SITE

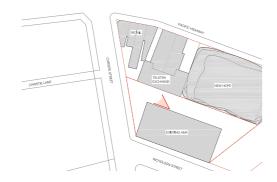
# SIGNIFICANT IMPROVEMENT TO QUALITY OF LANEWAY SYSTEM

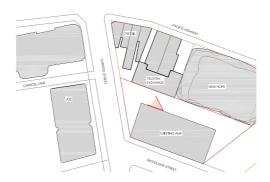
UNDEVELOPED TELSTRA SITE EXISTING AMA BUILDING

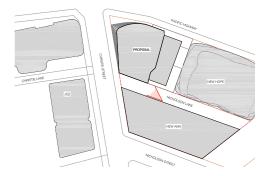
UNDEVELOPED TELSTRA SITE EXISTING AMA BUILDING NEW 88 CHRISTIE STREET DEVELOPMENT

DEVELOPED TELSTRA SITE NEW 88 CHRISTIE STREET DEVELOPMENT DEVELOPED AMA BUILDING









# 6. Amenity

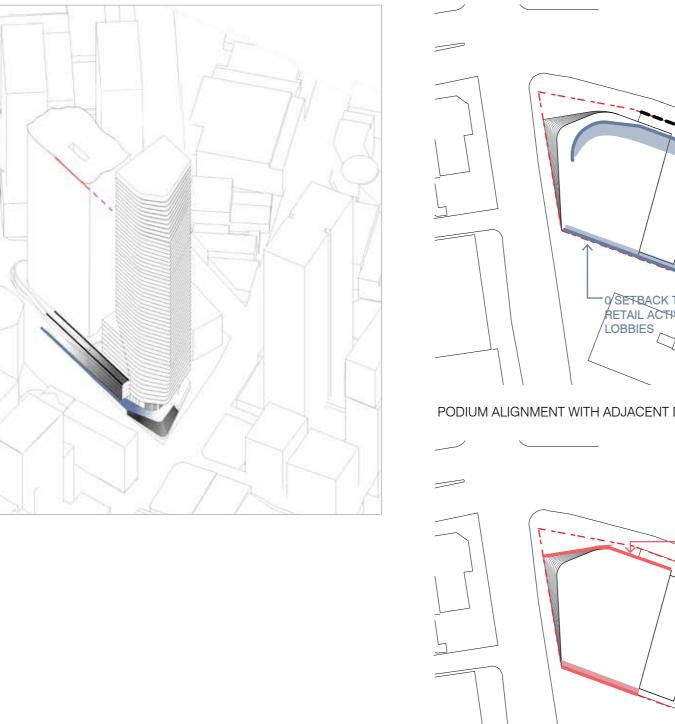


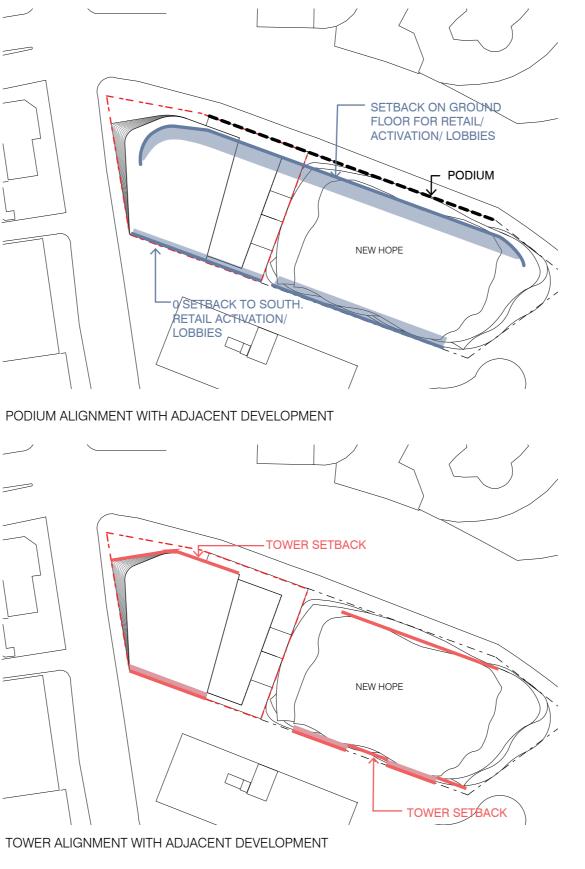






# ALIGNMENTS WITH ADJACENT DEVELOPMENT





#### SUMMARY SEPP 65 COMPLIANCE

The proposed scheme has been designed giving consideration to future compliance with the requirements of the NSW Apartment Design Guide. Beyond the consideration of planning controls, this proposal also identifies future streetscapes and positively contributes to them.

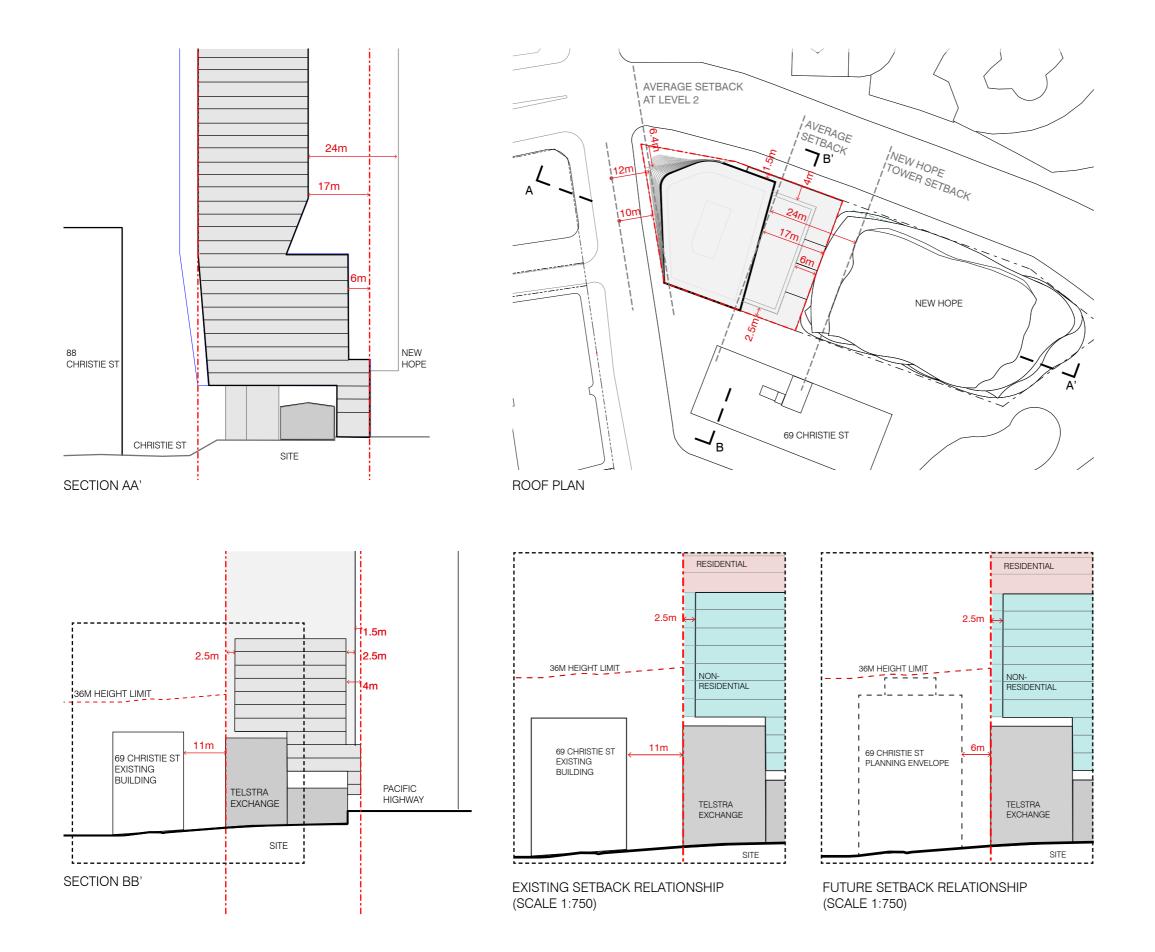
#### ALIGNMENTS WITH ADJACENT DEVELOPMENT

Our proposal continues the retail frontage and podium alignments of the adjacent New Hope development along Pacific Highway, enriching the pedestrian link between the new Metro Station and the St Leonards Forum. An 18 m high street edge, built to the boundary with a set back ground floor, creates an extended covered footpath. The strategy for the activated ground floor incorporates the Telstra building. Its facade will be modified and set back at ground level.

Along Nicholson Lane the existing solid brick wall of the Telstra Exchange will be opened up to allow for retail frontage.

Towards the prominent corner of Christie St and Pacific Highway, the lower levels of the building step back in relation to the tower above and the shaped high-rise form can be appreciated in its full extent.

The residential tower on the site maintains similar setbacks to Pacific Highway and Nicholson Lane as the adjacent New Hope development. It continues the principle of alignments with adjacent future development.



### PTM AMENITY **SETBACKS**

#### SETBACKS

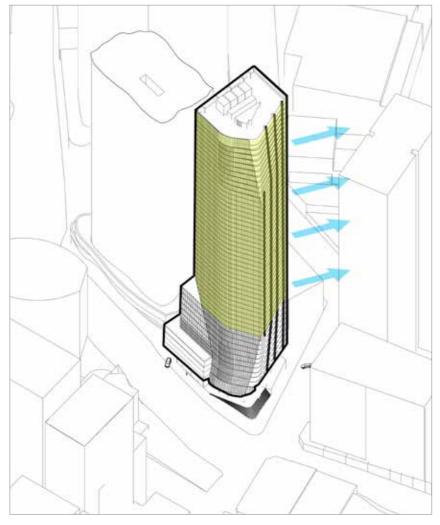
Building separation as required by the ADG can be achieved.

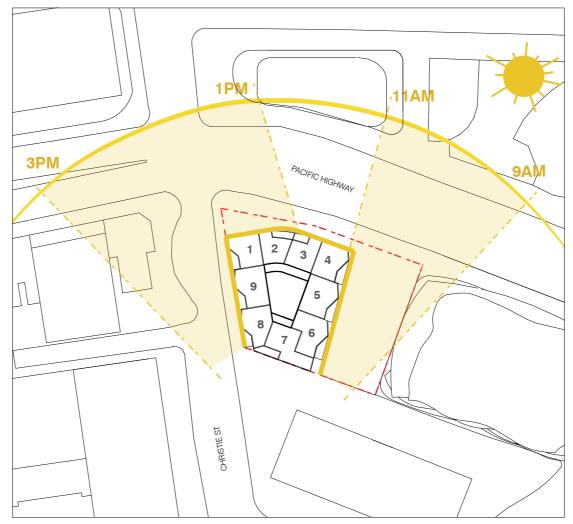
The residential tower is set back 24 m from the New Hope Development as per ADG requirements. The distance is not shared equally between our site and the neighbouring site due to the reduced setback (only 7 m) provided by the New Hope development.

The setback towards Christie Street is guided by the objective to enlarge the street's public domain. Hence the average distance to the boundary is greatest at the lower levels. The site is opposite to the 50m high commercial component of 88 Christie Street. Its roof has a similar RL to the lowest residential levels on the site. This will provide the apartments facing Christie Street with great amenity and sufficient privacy.

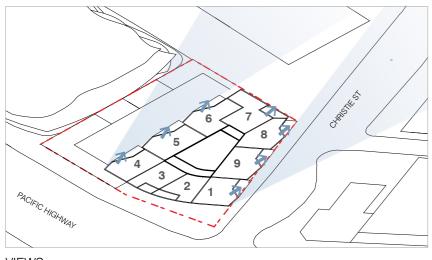
It is proposed to mirror the approach taken by New Hope by providing a zero setback to 69 Christie Street, and providing non-residential uses above the current maximum height of 69 Christie Street (36 metres).

# SOLAR ACCESS AND VIEWS





SOLAR ACCESS AND VIEWS



VIEWS

SOLAR ACCESS

#### SOLAR ACCESS

Excellent solar access is achieved due to the north, east and west orientation of all apartments within the residential tower. The building shape has been adjusted to allow for a minimum of 2 hours direct sunlight to living rooms and private open spaces between 9 am and 3 pm in midwinter for the majority of apartments. In order to reduce the impact of any future developments on solar performance of the residential tower the number of north facing units has been maximised.

#### VIEWS

7 out of 9 apartments per floor offer excellent views to the harbour. The shape of the floorplate and its fluted east and west facade, create ideal apartment layouts, with balconies and living rooms orientated towards the most desirable views.

#### VISUAL IMPACT

The slender building form and 24 m separation to the New Hope development ensure that key view corridors to the Harbour and CBD are maintained for surrounding developments.

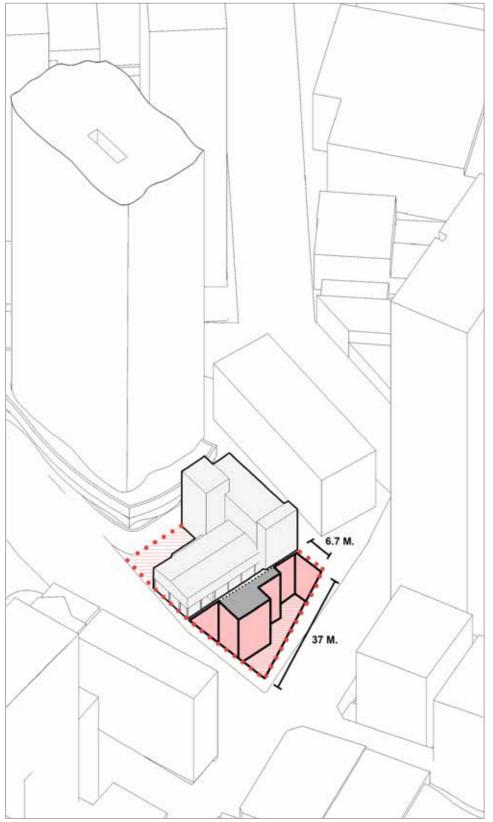
#### CROSS VENTILATION

As all of the residential apartments are located above level 9, the directive to achieve 60% cross ventilation set out in the natural ventilation design criteria is not applicable at this site.

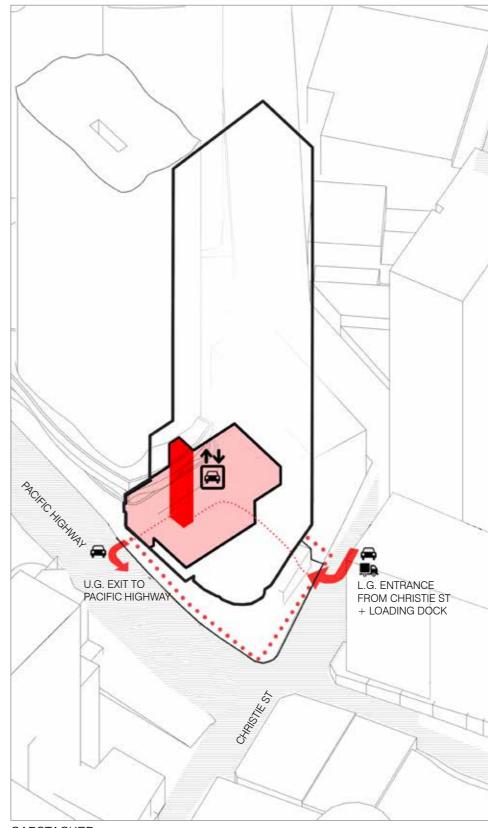
#### COMMUNAL SPACE

The scheme offers a range of quality communal areas for its residents:

- Lounge and roof terrace with pool on level 52 •
- Residential amenities on levels 53 and 11 •



POTENTIAL BASEMENT EXCAVATION



CARSTACKER

### **TECHNICAL CONSIDERATIONS**

#### INSUFFICIENT SPACE FOR BASEMENT PARKING

Parking cannot be accommodated below ground due to the following constraints:

- The continuing operational presence of the Telstra Exchange and the associated network of cabling means that basement excavation is not possible in any form underneath the building.
- The core will need to be located next to the Exchange • which further reduces free widths of the basement.
- The remaining space is too narrow and small to • include a car ramp and offers too little area to make any other parking systems below ground viable.

#### PARKING STRATEGY FOR SITE

In response to this, the scheme proposes to provide parking for the residents in the form of an automated carstacker located above the Telstra Exchange.

The cars enter via Christie Street and exit a level above on Pacific Highway without causing additional issues for the existing traffic. The entrance on Christie Street also functions as a loading dock.

The impact of the carstacker lift for the adjacent eastern development is low as it is located next to the staircase tower of the Telstra Exchange not exceeding its height.

The facade of the carstacker has been carefully designed in consideration of the prominent street frontage to Pacific Highway, using quality screening elements such as louvres to create a soft transition to the commercial facade above.



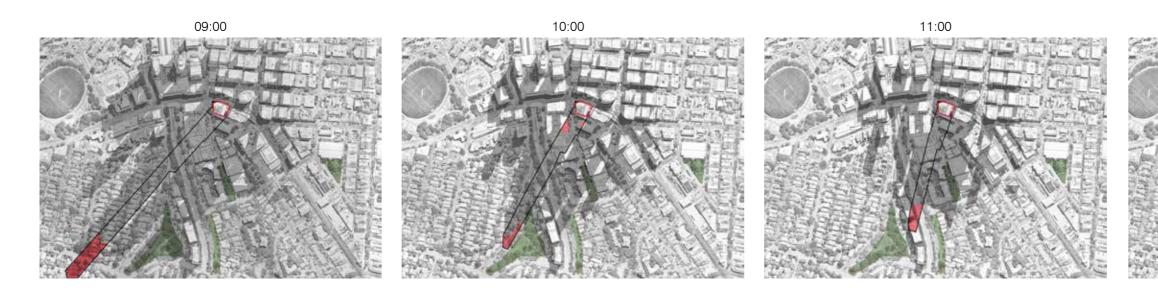
### **TECHNICAL CONSIDERATIONS**

#### CORE DESIGN OPTIMISED FOR HIGH RISE

The core design has been carefully developed considering the structural challenges of the site and the limited space next to the Telstra Exchange.

A lift consultant has been engaged to ensure optimal service to all residential apartments and commercial floors:

- Two lifts and a goods lift service the commercial areas with the possibility of a reception lobby on each floor towards Pacific Highway.
- Four conventional residential passenger lifts enable a • fast service to all levels.

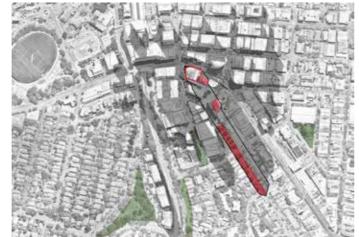


13:00

14:00

15:00







### SHADOW STUDIES

12:00





New Shadow

Special Open Areas



# SHADOW STUDIES | PTW

### SHADOW IMPACT - NEWLANDS PARK



SITE BOUNDARIES



PROPOSAL SITE

NEWLANDS PARK

### **SHADOW IMPACT - NEWLANDS PARK**

21ST JUNE 10:30 AM - EXISTING SHADOW



21ST JUNE 10:45 AM - EXISTING SHADOW



21ST JUNE 10:30 AM - PROPOSED SHADOW



21ST JUNE 10:45 AM - PROPOSED SHADOW



# SHADOW STUDIES | PTW

\*NO ADD SHADOW ON OPEN AREA CURRENTLY RECEIVING SUNLIGHT

\*EXISTING SHADOW IS INCLUDING SHADOWS BY EXISTING APPROVALS



NEWLANDS PARK

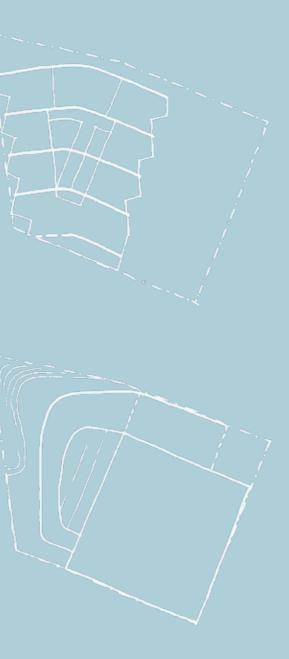


NEWLANDS PARK OPEN SPACE RECEIVING DIRECT SUN LIGHT

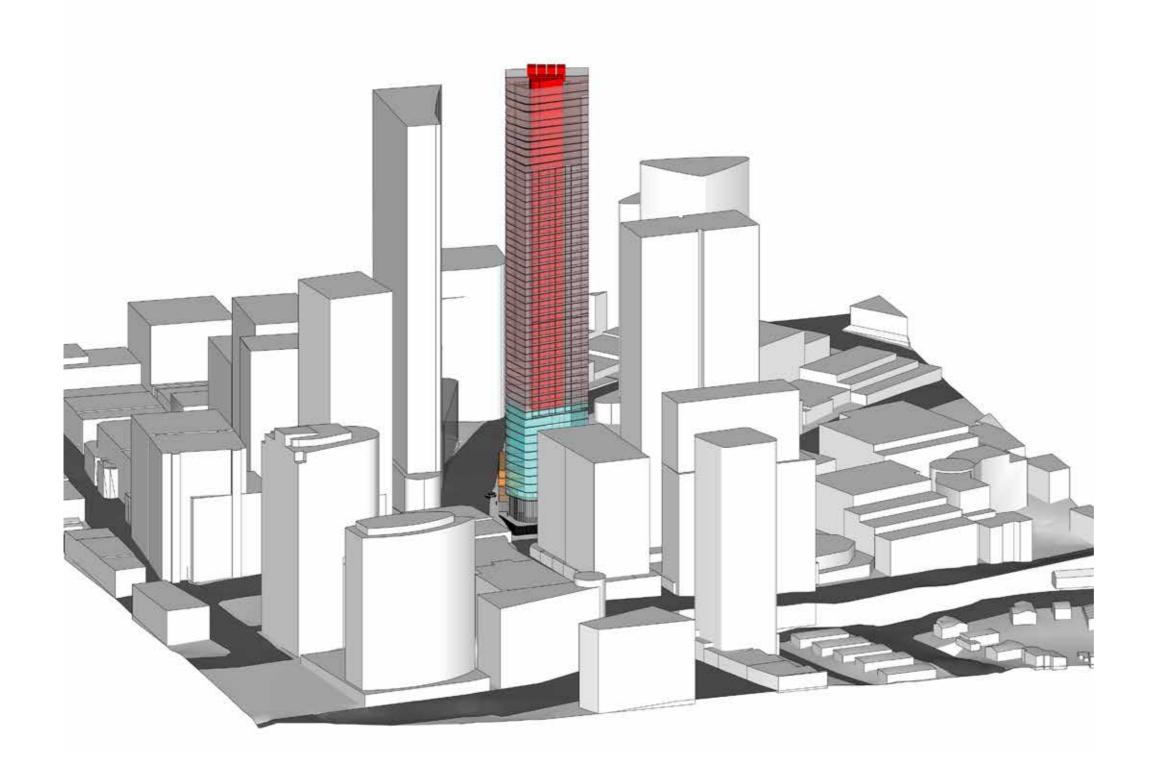


NEW SHADOW CAST BY PROPOSAL ONTO TREE CANOPIES

# 7. Architectural Drawings



## ARCHITECTURAL DRAWINGS | PTW SITE ANALYSIS - GFA CALCULATIONS



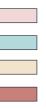
#### Site Area (sqm)

1671.7 194.80

Building height with plant/ lift overrun (m)

Resi Telstra Total Comm\* No. Floors 57 12 45 5 GFA 83.0 38756.0 6914.0 31759.0 FSR 4.1 19.0 23.2 Apartment No. 366 Unit Mix: 30% 1bed, 65% 2bed, 5% 3bed

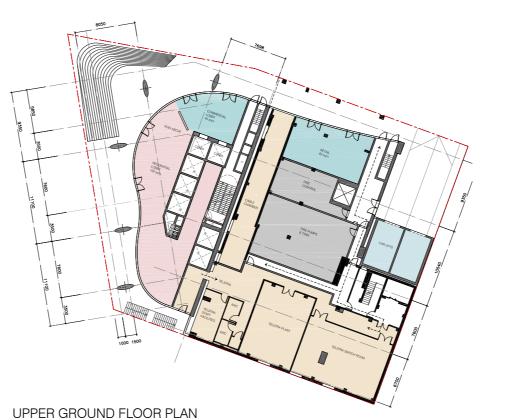
\* measured from lower ground floor



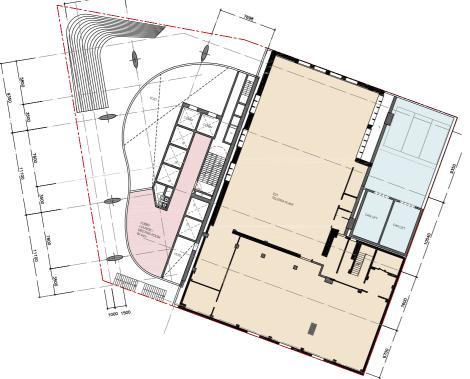
Residential Apartments/ Lounge Commercial/ Retail/ Gym/ Childcare Telstra Exchange Core

### ARCHITECTURAL DRAWINGS | PTW **TYPICAL FLOOR PLATES**

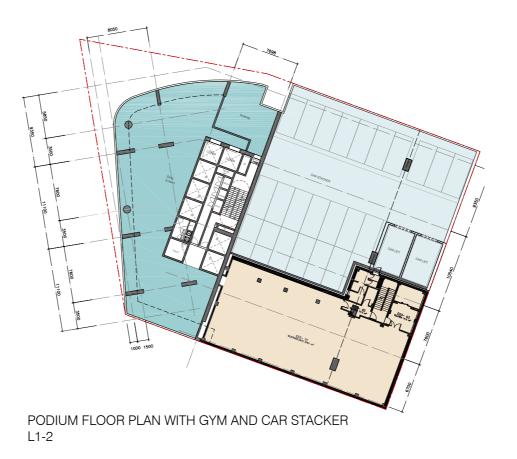




UG



MEZZANINE FLOOR PLAN



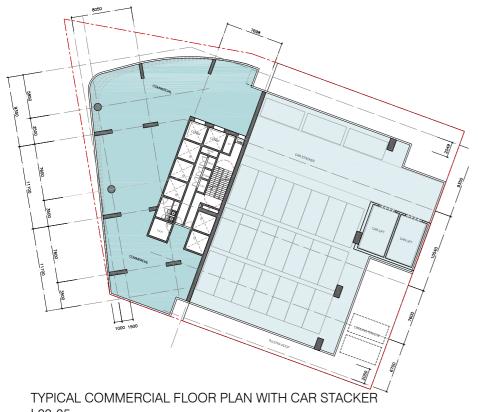
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Site Boundary

Residential Amenities/ Lounge Communal Roof Terrace/ Pool Residential Apartments/ Lobby Childcare (Indoor) Childcare (Outdoor) Commercial/ Retail Gym Carstacker Telstra Exchange Core/ Plant



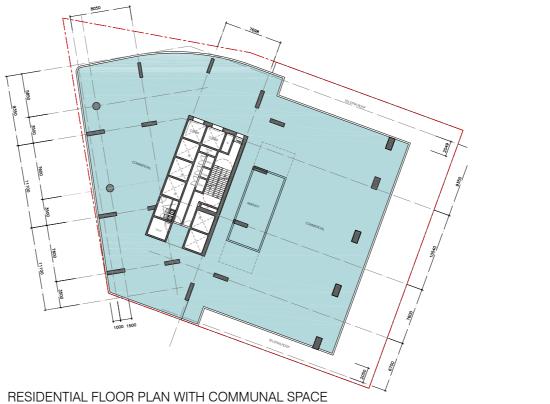
### ARCHITECTURAL DRAWINGS | PTW **TYPICAL FLOOR PLATES**



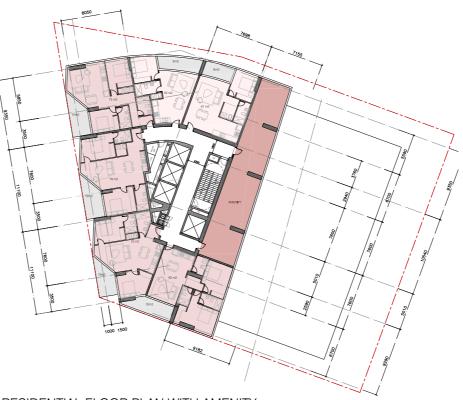




CHILDCARE FLOOR PLAN L10



L06-09



RESIDENTIAL FLOOR PLAN WITH AMENITY L11

Site Boundary

Residential Amenities/ Lounge Communal Roof Terrace/ Pool Residential Apartments/ Lobby Childcare (Indoor) Childcare (Outdoor) Commercial/ Retail Gym Carstacker Telstra Exchange Core/ Plant



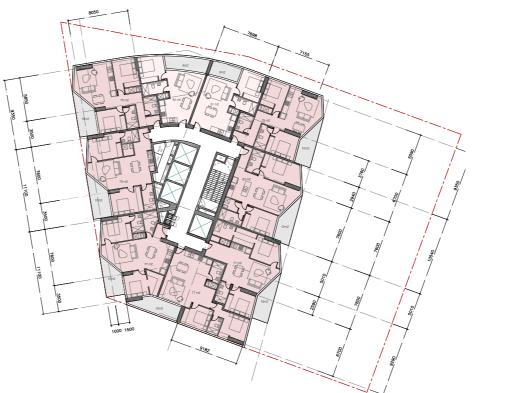
### ARCHITECTURAL DRAWINGS | PTW **TYPICAL FLOOR PLATES**



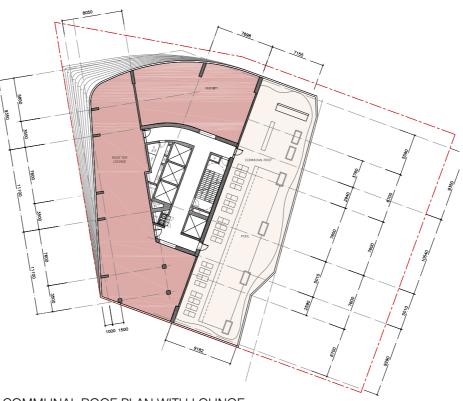
L13



RESIDENTIAL FLOOR PLAN L52



TYPICAL RESIDENTIAL FLOOR PLAN L16-44



COMMUNAL ROOF PLAN WITH LOUNGE L54

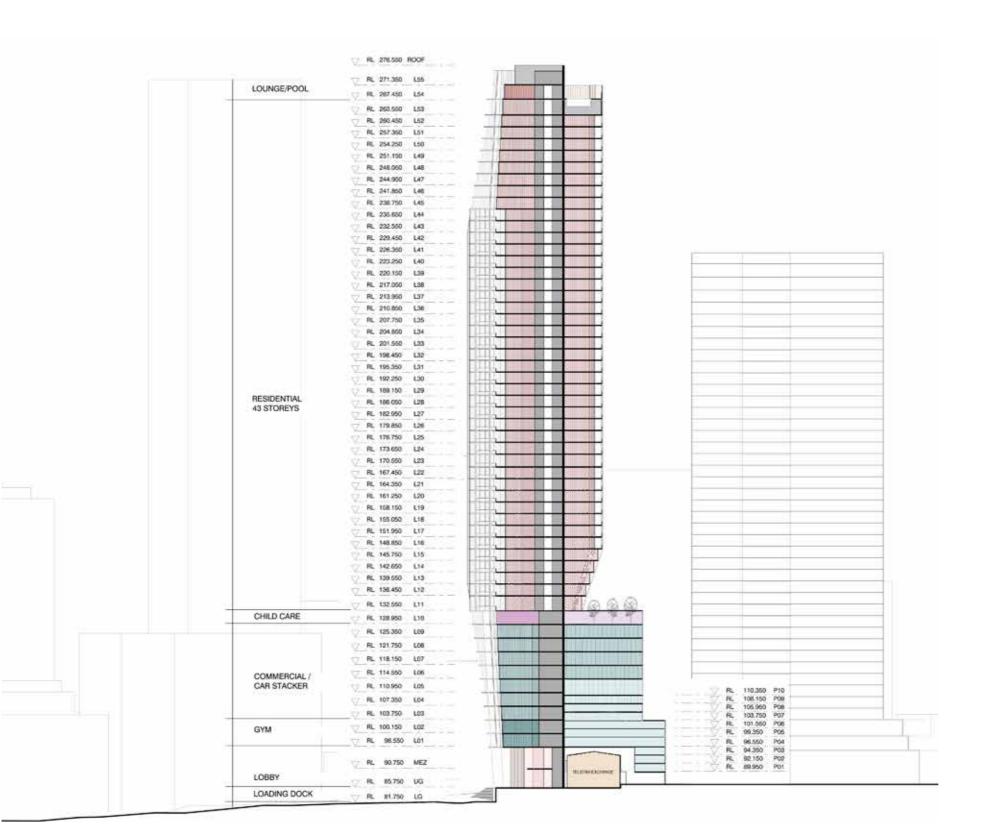
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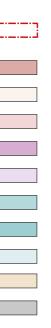
Site Boundary

Residential Amenities/ Lounge Communal Roof Terrace/ Pool Residential Apartments/ Lobby Childcare (Indoor) Childcare (Outdoor) Commercial/ Retail Gym Carstacker Telstra Exchange Core/ Plant



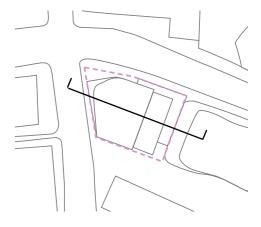
### PTW ARCHITECTURAL DRAWINGS SECTION

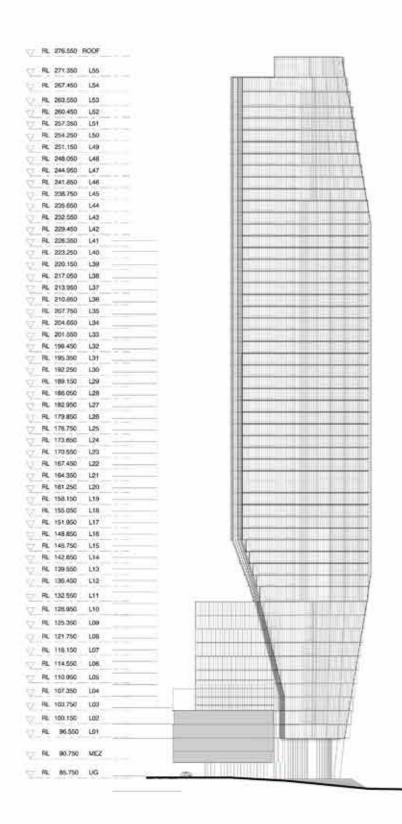


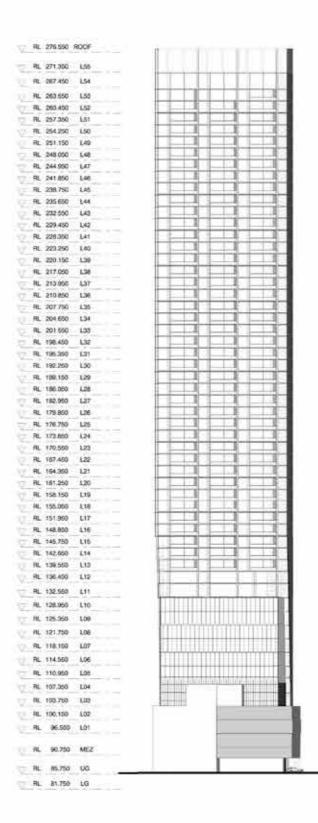


Site Boundary

**Residential Amenities/ Lounge** Communal Roof Terrace/ Pool Residential Apartments/ Lobby Childcare (Indoor) Childcare (Outdoor) Commercial/ Retail Gym Carstacker Telstra Exchange Core/ Plant





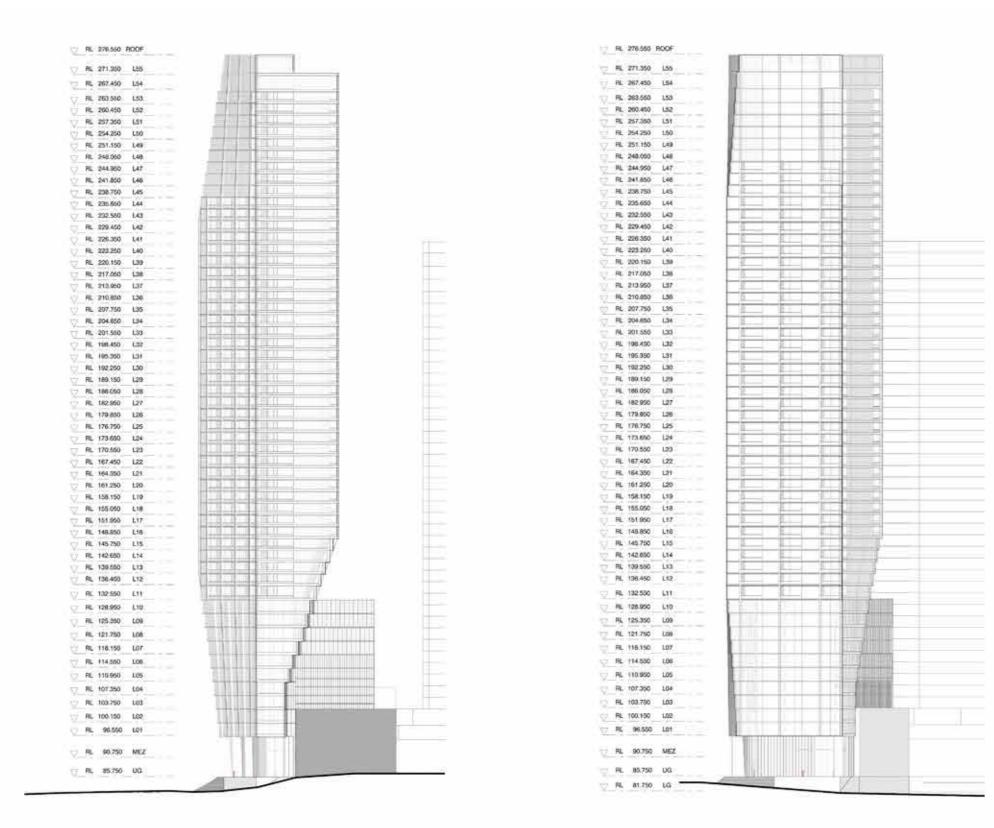


#### NORTH ELEVATION - PACIFIC HIGHWAY

#### EAST ELEVATION - BOUNDARY LINE

### **ARCHITECTURAL DRAWINGS ELEVATIONS**





### SOUTH ELEVATION - PUBLIC LINK

### WEST ELEVATION - CHRISTIE STREET

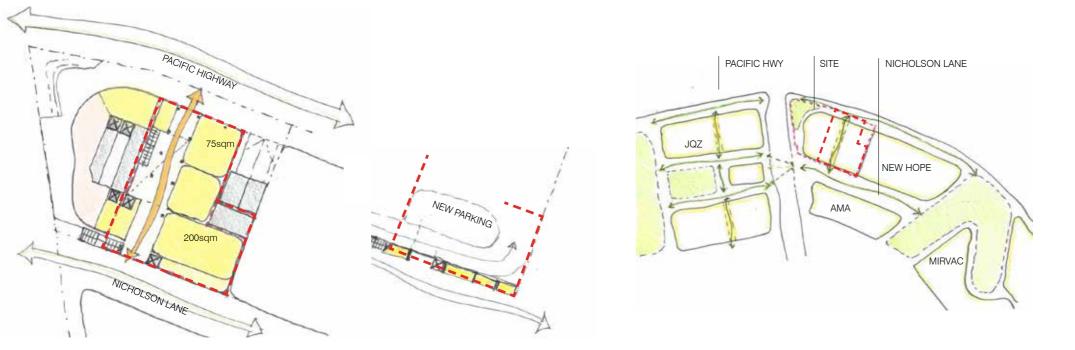
### ARCHITECTURAL DRAWINGS | PTW **ELEVATIONS**



# 8. Reuse of the Telstra Exchange

### I PTW **REUSE OF THE TELSTRA EXCHANGE**

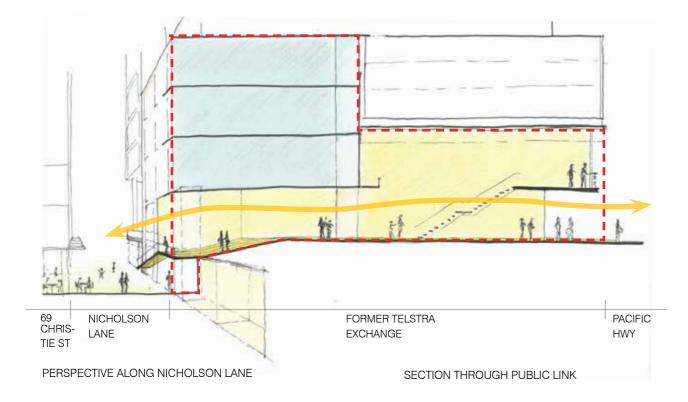
### **ADAPTIVE REUSE/ REFURBISHMENT**



UPPER GROUND FLOOR

LOWER GROUND





### REUSE OF THE TELSTRA EXCHANGE

Despite Telstra identifying the St Leonards Exchange as 'critical infrastructure', the project team have analysed how the Telstra Exchange could be adapted to accommodate a range of uses that would contribute to the activity and character of the surrounding areas without major intervention to the building fabric. In the unlikely event Telstra no longer require the exchange, the redevelopment of the site, the subject of a Planning Proposal, would not prohibit the Telstra Exchange from being re-used and adapted in the future. The building facades could be opened up to allow access points and in turn improved amenity and connectivity between the Pacific Highway and Christie Lane frontages. As a significant increase to the ground level frontages to both Christie Lane and the Pacific Highway it would be a welcome addition to the public domain of the immediate area and would contribute to the emerging activated laneway system already contained within the 88 Christie St development. The future activation of the Telstra Exchange would further accentuate the benefits that renewal of this site can provide to the new public domain and connections within this emerging precinct of the wider Strategic Centre.

The Telstra Exchange has great potential to accommodate a range of alternative uses that will benefit from the locality and activity of the surroundings. The building could remain self contained using existing vertical servicing and with some modifications of the existing facade could allow spaces with daylight access.

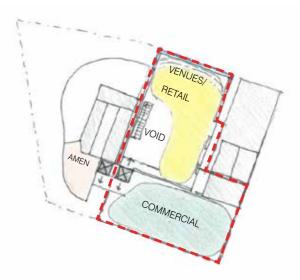
The Telstra Exchange in its existing form obstructs the pedestrian flow and activation along Pacific Highway and Nicholson Lane. The reuse of the Telstra Exchange would open up fantastic opportunities to create a more permeable site inviting pedestrian movement through the building and enabling more retail engagement and activation.

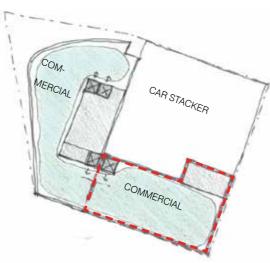
| - | OUTLINE EXISTING TELSTRA<br>EXCHANGE |
|---|--------------------------------------|
|   | RETAIL/ LOBBIES                      |

COMMERCIAL

### I PTW REUSE OF THE TELSTRA EXCHANGE

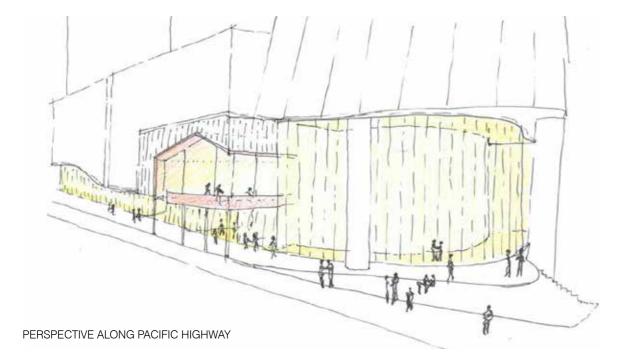
### **ADAPTIVE REUSE/ REFURBISHMENT**





MEZZANINE LEVEL

Commercial levels 1-3











A public link at street level through the former Telstra Exchange with retail, cafes and lobbies on either side would contribute to the complex public domain network of St Leonards centre. It also connects retail activity along Pacific Highway and Nicholson Lane. The change in level between the 2 streets can be addressed by stairs and a lift which can be incorporated in the south façade of the Telstra Exchange building.

Original features such as shape, brick and roof structures could be maintained. This original urban fabric within an area dominated by new developments can significantly contribute to the street scape.

The pitched roof section of the Telstra Exchange building on the 1st floor could be used for retail uses or as an event space. A void to the public link on ground floor enables visual connections and a celebrated double height space. The glazed façade to Pacific Highway promotes openness, transparency and animation.

The space within the Telstra Exchange building with its potential access to daylight and link to the surrounding public domain would be well suited to a variety of commercial use.

Uses such as:

- Small footprint retail uses

- Traditional/ flexible commercial floorplate

- Possible food/ beverage or cafe venues

All this would benefit from the character of the existing building and its surrounding activities.

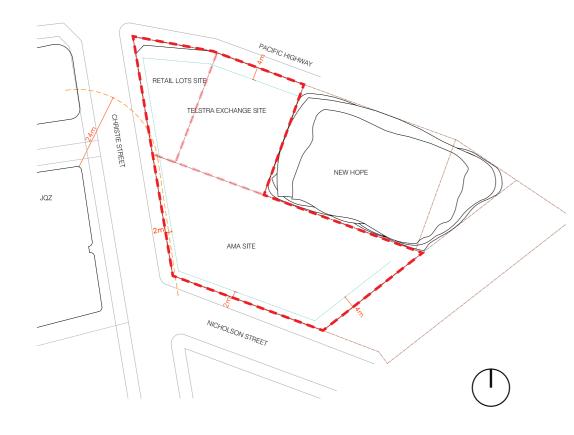
| <br>OUTLINE EXISTING TELSTRA<br>EXCHANGE |
|--|
| RETAIL/ LOBBIES                          |
| COMMERCIAL                               |

| RESIDENTIAL |
|-------------|
|             |

# 9. Site Amalgamation Study

### APPLICABLE DEVELOPMENT CONTROLS TO AMA SITE AND TELSTRA EXCHANGE SITE

### SITE PLAN



### APPLICABLE DEVELOPMENT CONTROLS

| LCLEP 2009                            | 524 – 542 Pacific Highway (Telstra<br>Exchange site) | AMA site           |
|---------------------------------------|--|--------------------|
| Clause 2.2 –<br>Land Use Zone         | B3 Commercial Core                                   | B3 Commercial Core |
| Clause 4.3 –<br>Height of<br>Building | 72 metres  | • 36 metres        |
| Clause 4.4 –<br>Floor Space<br>Ratio  | • 17.1:1   | • 10.1:1           |

| LCDCP 2010                               | Control   |
|--|---|
| Street frontage height/<br>podium height | 18 metres   |
| Tower separation                         | 12 metres (minimum)   |
| Tower footprint                          | 1,500m <sup>2</sup>   |
| Tower setback                            | <ul> <li>Pacific Highway: 0 -18m (flexible)</li> <li>Christie Street: 6m</li> <li>Nicholson Street: 6m and 18m (flexible)</li> <li>To Friedlander Place/ Albany Street: 6m</li> </ul> |
| Maximum tower frontage width             | 36m   |
| Colonnade                                | To Pacific Highway: 4m depth from building edge, 2 storey height  |

# PTW

### LCDCP AND REASONABLE CONCESSIONS

Setbacks:

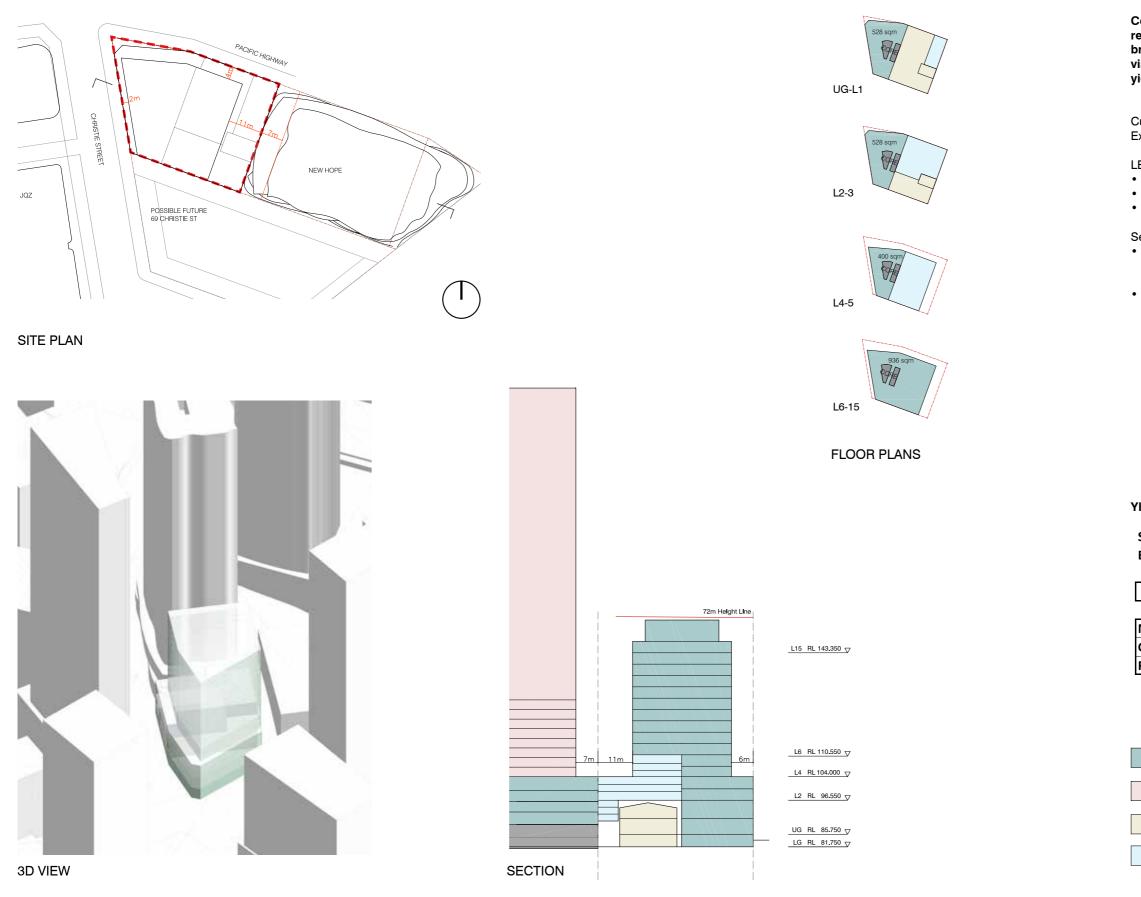
- Podium built to boundary.
- Colonnade to Pacific Highway: 4m depth from ٠ building edge, 2 storeys high.
- 18m podium height.
- 2m setback above street frontage to Christie Street and Nicholson Street (ADG requirement of 12m to centre of street is applied instead of 6m setback as per DCP).
- 4m setback above street frontage to Pacific Highway • to continue New Hope setback.
- 4m setback above street frontage to Friedlander ٠ Place to continue New Hope setback.

SITE BOUNDARY

SETBACK ABOVE STREET FRONTAGE

## TELSTRA EXCHANGE SITE - PERMISSABLE DEVELOPMENT UNDER CURRENT CONTROLS NOT FEASIBLE PTW

### **YIELD ANALYSIS ON TELSTRA EXCHANGE SITE**



Construction above the Telstra Exchange and the required car stacker are cost intensive. A building bridging the Telstra Exchange would not allow for viable development due high costs and a relatively low yield.

Current controls & reasonable concessions for Telstra Exchange site:

LEP:

- Zoning = B3 Commercial Core •
- Max height = 72m height
- FSR = 17.1:1 •

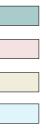
Separation to adjacent sites:

- 11m setback above street frontage to New Hope boundary to provide 18m separation to New Hope residences.
- Om setback to AMA site

#### YIELD ANALYSIS

| Site Area (sqm<br>Building heigh | 1671.7<br>72.00 |      |       |
|----------------------------------|-----------------|------|-------|
|                                  | Comm            | Resi | Total |
| No. Floors                       | 16              | 0    | 16    |

| No. Floors | 16      | 0   | 16      |
|------------|---------|-----|---------|
| GFA (sqm)  | 12272.0 | 0.0 | 12272.0 |
| FSR (n:1)  | 7.3     | 0.0 | 7.3     |



COMMERCIAL, NON-RESIDENTIAL

RESIDENTIAL

TELSTRA EXCHANGE

## RETAIL LOTS SITE - PERMISSABLE DEVELOPMENT UNDER CURRENT CONTROLS NOT FEASIBLE PTW

Basement

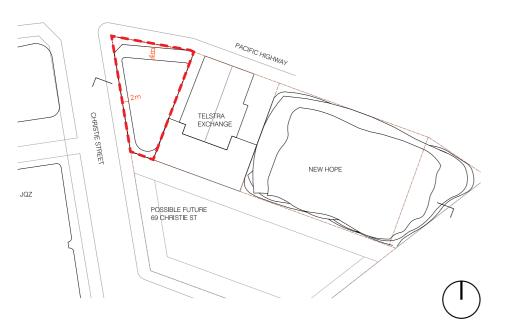
UG-L3

L4-15

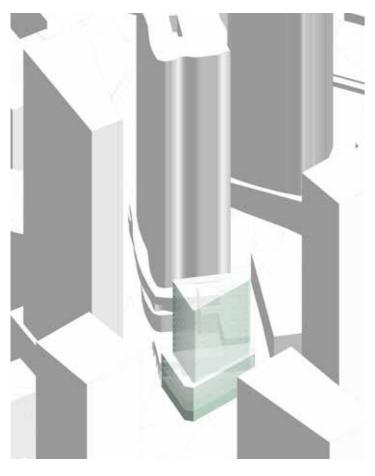
424 san

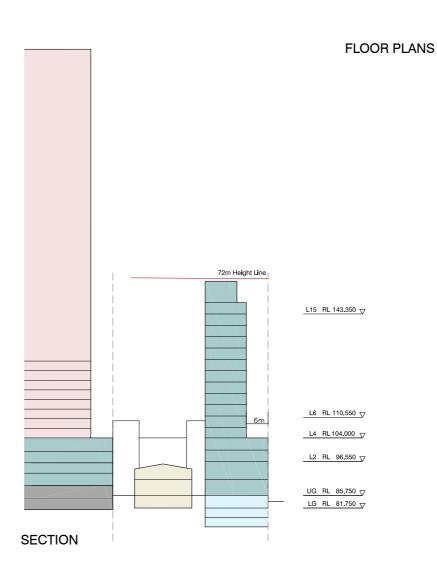
296 sqm

### **YIELD ANALYSIS ON RETAIL LOTS SITE**









#### A building encompassing only the western portion of the site would not allow for viable development due to small and narrow floorplates.

Current controls & reasonable concessions for Retail lots site:

LEP:

- Zoning = B3 Commercial Core
- Max height = 72m height •
- FSR = 17.1:1 ٠

Separation to adjacent sites:

- 11m setback above street frontage to New Hope boundary to provide 18m separation to New Hope residences.
- Om setback to AMA site

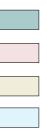
### YIELD ANALYSIS

| Site Area (sqm)<br>Building height with plant/ lift overrun |        |      | 567.2<br>72.00 |
|---|--------|------|----------------|
|   | Comm   | Resi | Total          |
| No. Floors  | 16     | 0    | 16             |
| GFA (sqm)   | 5248.0 | 0.0  | 5248.0         |

9.3

9.3

0.0



FSR (n:1)

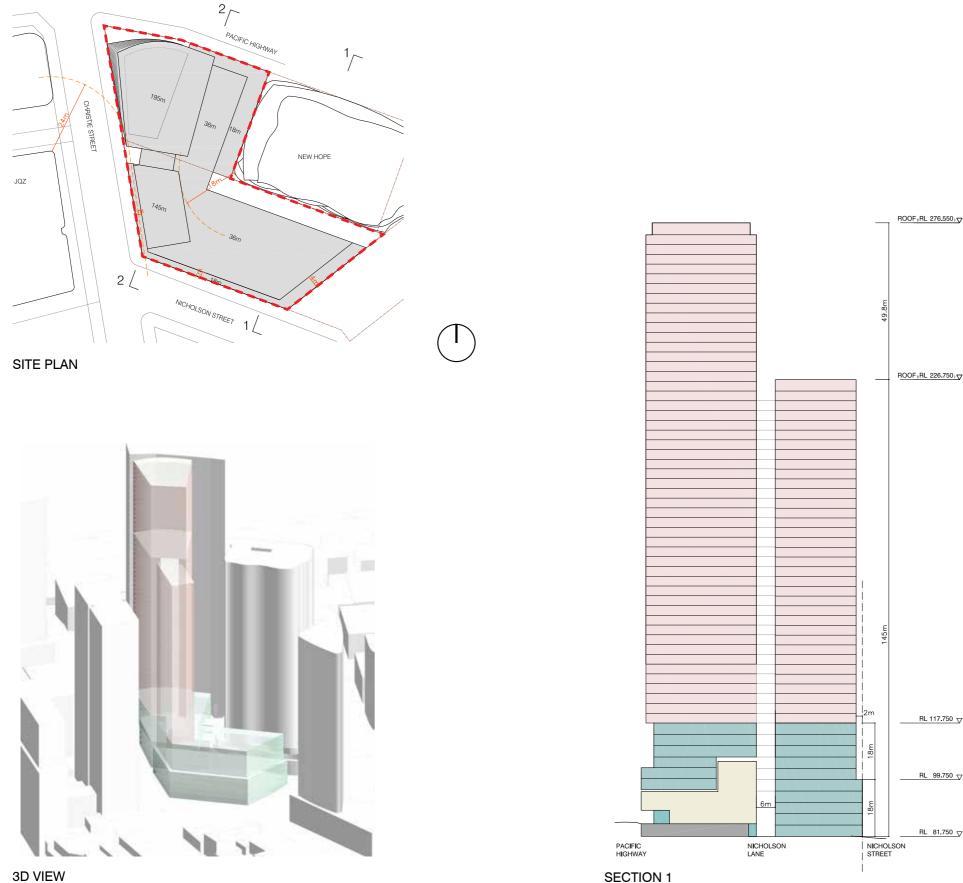
COMMERCIAL, NON-RESIDENTIAL

RESIDENTIAL

TELSTRA EXCHANGE

### AMALGAMATED TELSTRA EXCHANGE, RETAIL LOTS AND AMA SITE - DEVELOPABILI

### AMALGAMATED DEVELOPMENT UNDER FUTURE POTENTIAL CONTROLS



# ΡΤΜ

Amalgamation would result in a worse urban design outcome than if the AMA site were developed as an standalone site or left as-is.

Amalgamation of the Telstra exchange, retail lots, and AMA sites would result in:

- the loss of an open-to-sky public domain link from Christie Lane (to the west) to Friedlander Place (to the east)
- undesirable bulk and scale outcomes, including a lengthy street wall to Christie Street
- potential cumulative overshadowing issues due to size of building
- challenges with ADG compliance, particularly in • relation to cross-ventilation, number of apartments per lift, and number of apartments per circulation core

While amalgamation of the AMA site would allow for the renewal of the AMA building, much of the benefit could be achieved through retaining and reskinning the existing building

Future potential controls and reasonable concessions for AMA site:

- Max height = similar to New Hope and JQZ
- Zoning = Mixed Use
- FSR > 10.1:1

Separation to adjacent sites:

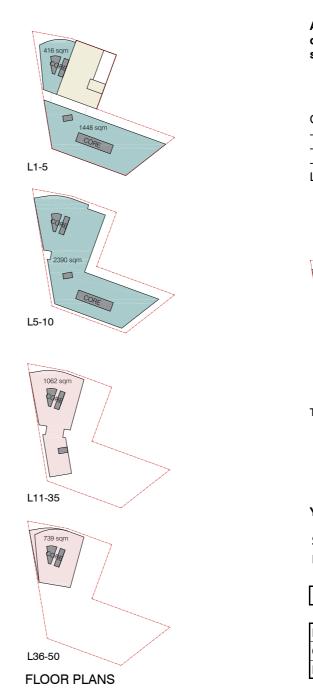
- 17m setback above street frontage to New Hope boundary to provide 24m separation to New Hope residences.
- 6m separation

| COMMERCIAL,<br>NON-RESIDENTIAL |
|--------------------------------|
| RESIDENTIAL                    |
| TELSTRA EXCHANGE               |
| CARSTACKER                     |

### AMALGAMATED TELSTRA EXCHANGE, RETAIL LOTS AND AMA SITE - DEVELOPABILITY

### AMALGAMATED DEVELOPMENT UNDER FUTURE POTENTIAL CONTROLS

|  | Individual development of Telstra and AMA sites   | Amalgamated sites  |
|--|---|--|
| Public domain linkages                           | $\checkmark$  | X  |
|  | Capable of delivering public domain linkage<br>between Christie Lane and Friedlander<br>Place                       | Would lose potential for open-to-sky link  |
| Bulk, scale and building length                  | $\checkmark$  | Х  |
|  | Facilitates slender building envelopes on<br>both sites, providing increased sky view and<br>reduced bulk and scale | Would result in an overly long and bulky building presenting to Christie Street                                      |
| ADG compliance                                   | $\checkmark$  | Х  |
|  | Teltra site capable of meeting key ADG provisions   | Challenges with ADG compliance due to<br>floor plate size  |
| Overshadowing and impact on adjoining properties | $\checkmark$  | Х  |
|  | Minimal increase in cumulative overshad-<br>owing   | Potential for increased overshadowing due to bulk and length of building   |
| Renewal of AMA building                          | x   | $\checkmark$   |
|  | Would not facilitate renewal of AMA building,<br>but would not reduce development potential<br>of AMA site          | Could facilitate renewal of AMA building,<br>but would result in a number of undesirable<br>outcomes for St Leonards |



Amalgamation would result in a worse urban design outcome than if the AMA site were developed as an standalone site or left as-is.

CONCERNS WITH AMALGAMATION OF SITES: - impact on neighbours - council's concern regarding bulk and scale

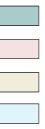
- reducing quality of public domain (covered Nicholson Lane)

TYPICAL RESIDENTIAL FLOOR PLAN

### YIELD ANALYSIS

| Site Area (sqm)<br>Building height v | 4001<br>195.00 |  |  |
|--------------------------------------|----------------|--|--|
|                                      | Total          |  |  |
|                                      |                |  |  |

| No. Floors | 9       | 40      | 49      |
|------------|---------|---------|---------|
| GFA (sqm)  | 19240.0 | 37653.0 | 56893.0 |
| FSR (n:1)  | 4.8     | 9.4     | 14.2    |



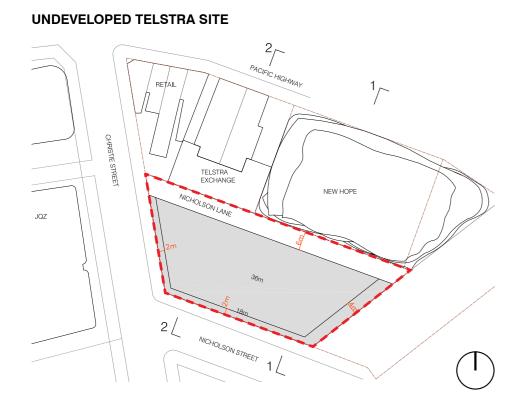
COMMERCIAL, NON-RESIDENTIAL

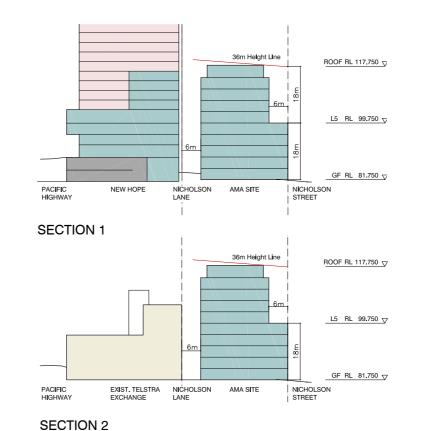
RESIDENTIAL

TELSTRA EXCHANGE

## AMA SITE - DEVELOPABILITY AND IMPACT OF PROPOSED DEVELOPMENT ON TELSTRA EXCHANGE SITE | PTW

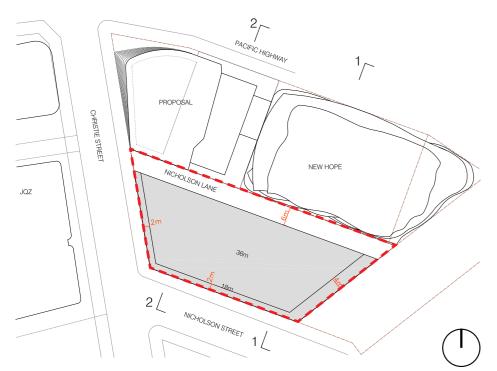
### PERMISSABLE DEVELOPMENT ON AMA SITE UNDER CURRENT CONTROLS

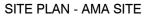


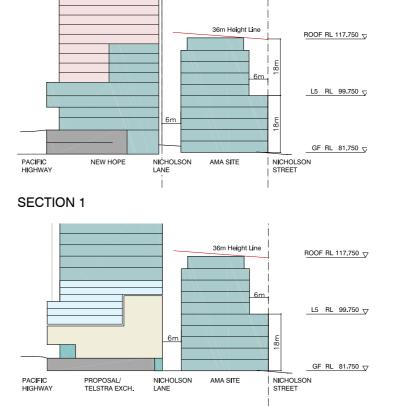


SITE PLAN - AMA SITE

### **DEVELOPED TELSTRA SITE**







AMA site capable of being developed as a commercial building to the current height limit.

The proposed development of the Telstra exchange site would replicate the boundary condition already set by the approved (and under construction) New Hope building, which would negate any interface issues between the two sites.

Current controls & reasonable concessions for AMA site:

LEP:

- Zoning = B3 Commercial Core •
- Max height = 36m height ٠
- FSR = 10.1:1 •

Separation to adjacent sites:

• 6m setback to northern boundary.

COMMERCIAL, NON-RESIDENTIAL

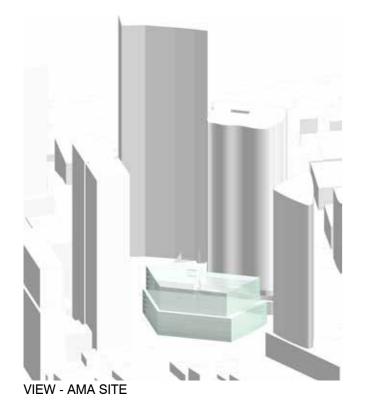
RESIDENTIAL

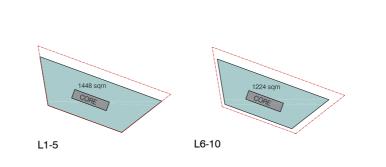
TELSTRA EXCHANGE

## AMA SITE - DEVELOPABILITY AND IMPACT OF PROPOSED DEVELOPMENT ON TELSTRA EXCHANGE SITE PTW

### PERMISSABLE DEVELOPMENT ON AMA SITE UNDER CURRENT CONTROLS

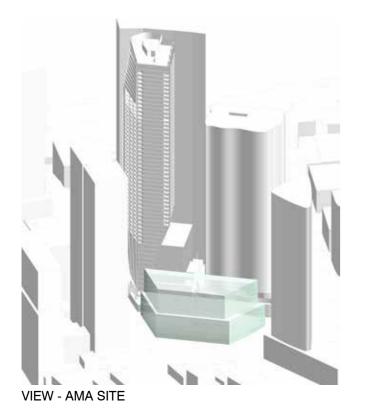
### UNDEVELOPED TELSTRA SITE

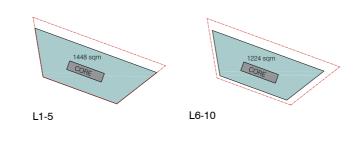




FLOOR PLANS - AMA SITE

**DEVELOPED TELSTRA SITE** 





FLOOR PLANS - AMA SITE

The proposed development on the Telstra exchange site has no impact on the development potential of the AMA site under current controls.

### YIELD ANALYSIS

| Site Area (sqm)<br>Building height with plant/ lift overrun |         |      | 2330<br>36.00 |
|---|---------|------|---------------|
|   | Comm    | Resi | Total         |
| No. Floors  | 10      | 0    | 10            |
| GFA (sqm)   | 13360.0 | 0.0  | 13360.0       |

5.7

0.0

5.7

| COM<br>NON- |
|-------------|
| RESI        |
| TELS        |
| CARS        |
|             |

FSR (n:1)

MERCIAL, I-RESIDENTIAL

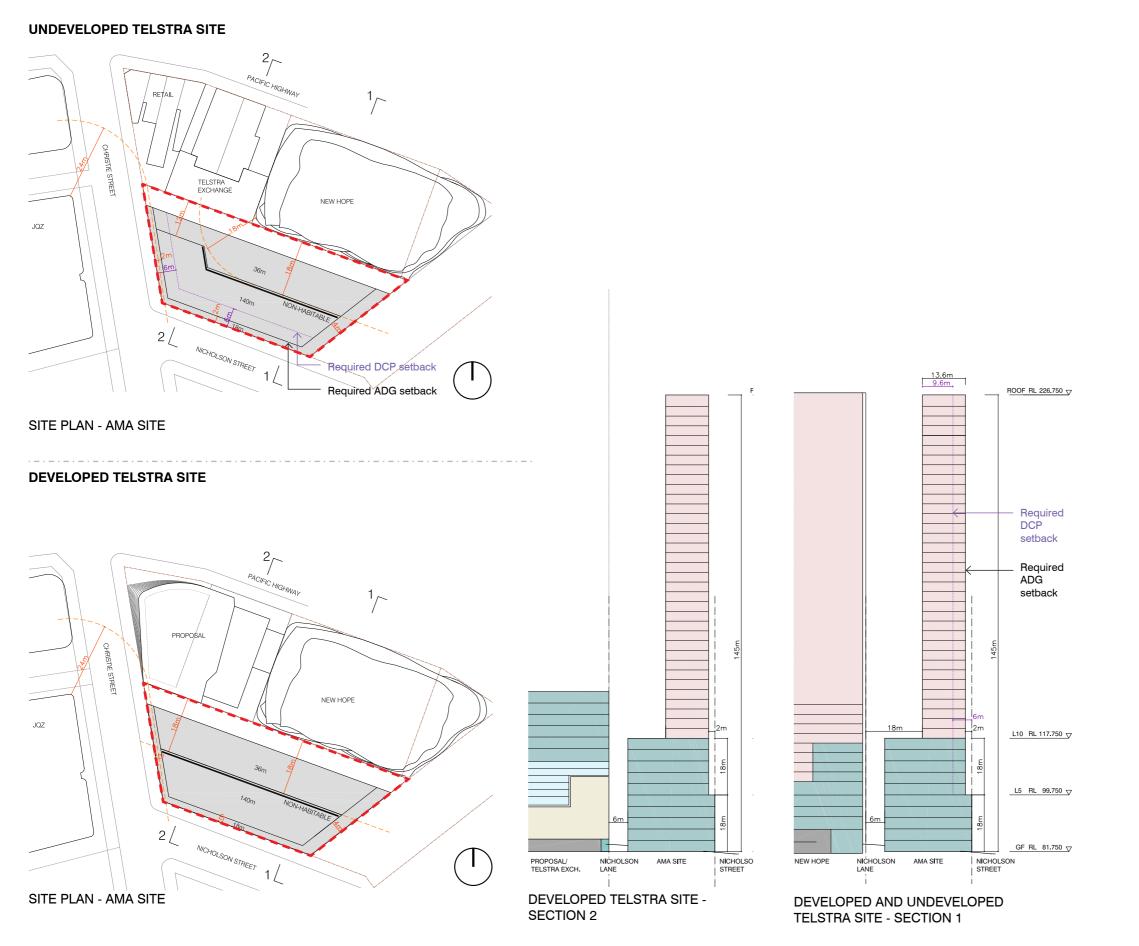
IDENTIAL

STRA EXCHANGE

STACKER

### PTW AMA SITE - DEVELOPABILITY AND IMPACT OF PROPOSED DEVELOPMENT ON TELSTRA EXCHANGE SITE

FUTURE DEVELOPMENT SCENARIO - MIXED USE, INCREASED HEIGHT



Development of the Telstra exchange site would have very little impact on the potential envelope of the AMA site and would not affect the overall viability of any future development potential on the AMA site.

Residential development on the AMA site is heavily constrained by the approved (and under construction) New Hope building.

Visual privacy issues caused by New Hope would necessitate a south-facing development on the AMA site, which would preclude ADG solar access compliance.

AMA site envelope largely dictated by approved (and under construction) New Hope development

Future potential controls and reasonable concessions for AMA site:

- Max height = similar to New Hope and JQZ •
- Zoning = mixed Use •
- FSR > 10.1:1

Separation to adjacent sites:

- 6m setback to northern boundary. ٠
- ٠ 18m setback to residential towers along the northern boundary

#### CONCERNS WITH DEVELOPMENT SCENARIO - MIXED USE INCREASED HEIGHT

- Inefficient floorplate

- cannot achieve required solar access

- "tunnel" between New Hope and AMA development

| 1 |
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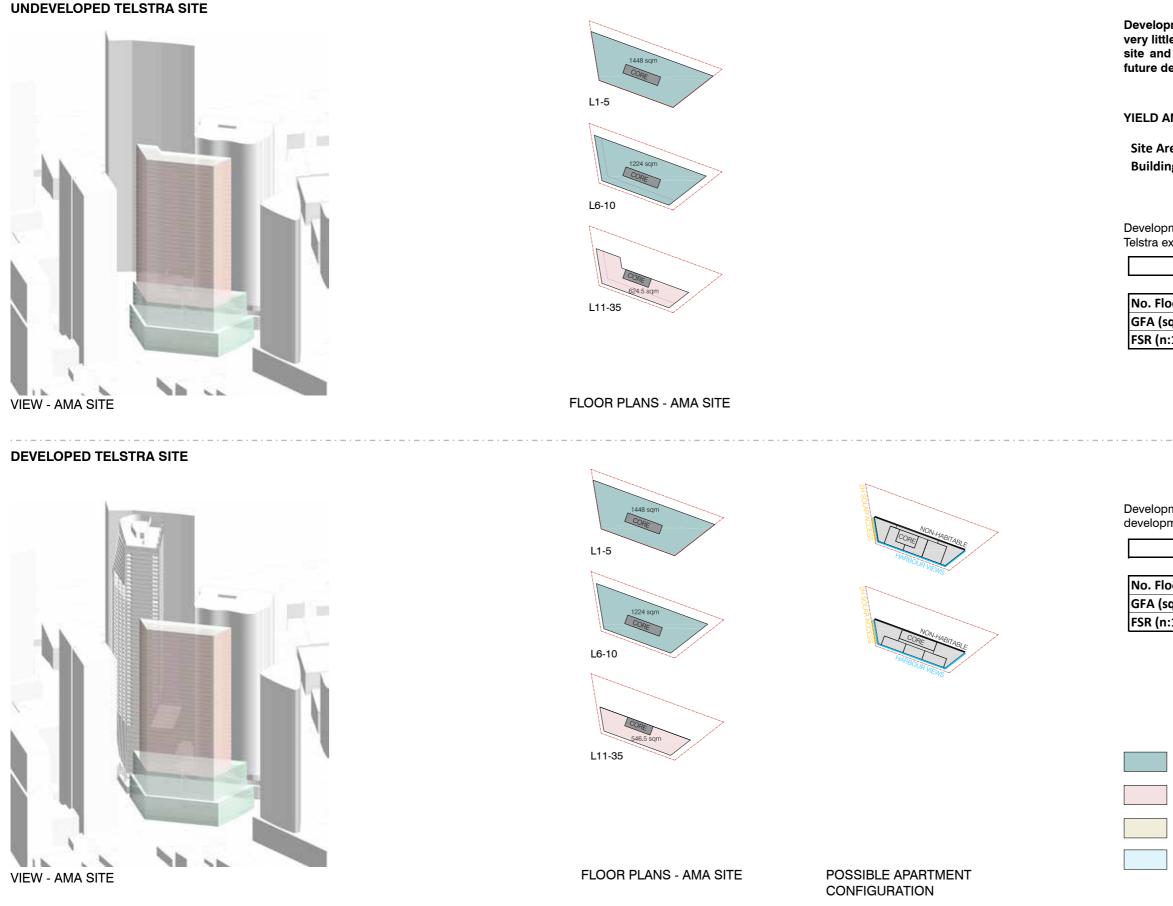
COMMERCIAL, NON-RESIDENTIAL

RESIDENTIAL

TELSTRA EXCHANGE

# AMA SITE - DEVELOPABILITY AND IMPACT OF PROPOSED DEVELOPMENT ON TELSTRA EXCHANGE SITE | PTW

### **FUTURE DEVELOPMENT SCENARIO - MIXED USE, INCREASED HEIGHT**



Development of the Telstra exchange site would have very little impact on the potential envelope of the AMA site and would not affect the overall viability of any future development potential on the AMA site.

### YIELD ANALYSIS

| Site Area (sqm)                          | 2330   |
|--|--------|
| Building height with plant/ lift overrun | 145.00 |

Development potential on AMA site with Undeveloped Telstra exchange site

|            | Comm    | Resi    | Total   |
|------------|---------|---------|---------|
|            |         |         |         |
| No. Floors | 10      | 25      | 35      |
| GFA (sqm)  | 13360.0 | 15592.5 | 28952.5 |
| FSR (n:1)  | 5.7     | 6.7     | 12.4    |

Development potential on AMA site with proposed development on Telstra exchange site

|            | Comm    | Resi    | Total   |
|------------|---------|---------|---------|
|            |         |         |         |
| No. Floors | 10      | 25      | 35      |
| GFA (sqm)  | 13360.0 | 13667.5 | 27027.5 |
| FSR (n:1)  | 5.7     | 5.9     | 11.6    |

COMMERCIAL, NON-RESIDENTIAL

RESIDENTIAL

TELSTRA EXCHANGE