## THE PALMS

167 HUME HWY, GREENACRE

URBAN DESIGN REPORT
September 2021

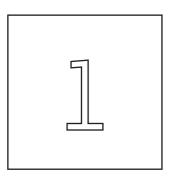


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INTRODUCTION



## PURPOSE OF REPORT

This Urban Design Report supports the planning proposal for the site at 167-183 Hume Highway, Greenacre. This report explores the opportunity for redevelopment of the site and provides a concept design which is based on detailed site analysis and which fits within the built form parameters proposed by the planning proposal. The report provides conceptual illustrations of the proposed development and how it responds to Council's strategic directions for the locality.

The vision for the site is to transform the existing ageing The Palms Hotel into a high quality mixed use development with multiple building forms, a large and prominent commercial tenancy, high amenity residential apartments, basement parking, and extensive landscaping.





















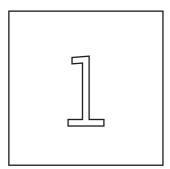


## HUME ROAD HICHWAL BENCHMARK CUT IN CONCRETE RL. 49.94 (AHD) 402 DP 631754 ROAD CARDIGAN PETER CRESCENT TENNYSON

#### LEGEND

BENCH MARK	▲
TELSTRA PIT	<b>■</b> TEL
ELECTRIC LIGHT POLE	<b>●</b> ELP
ELECTRIC LIGHT BOLLARD	<b>●</b> LB
POWER POLE	● PP
PIT WITH CONCRETE LID	□ CLID
PIT WITH METAL LID	☐ MLID
TRAFFIC LIGHT	<b>■</b> TL
ROAD TRAFFIC AUTHORITY	⊠ RTA
STORMWATER PIT	☐ SWPIT
SEWER INSPECTION POINT	O SIP
SEWER MANHOLE	○ SMH
STOP VALVE	□ SV
HYDRANT	ND HYD
WATER METER	₩ WM
GAS VALVE	⊠ GAS
RIDGE LEVEL	RL
GUTTER LEVEL	GL
AWNING LEVEL	AL
PARAPET LEVEL	PL
BALCONY LEVEL	BL
INVERT LEVEL	IL
WINDOW	W
D00R	D
HEAD/SILL	H/S
GAS (DBYD)	— с —
TELSTRA (DBYD)	— т —
WATER (DBYD)	w
SEWER (DBYD)	s
ELECTRICITY (U'GROUND) (DBYD)	— Е —
ROADS & MARITIME SERVICE (DBYD)	——RTA—
STORMWATER	sw

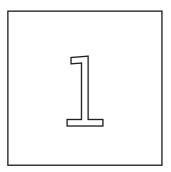
SITE SURVEY LTS Lockley



## **URBAN CONTEXT**







## SITE

This site is located at 167 Hume Highway, Greenacre. The site area is 11,114 sqm, taking into account the dedication of a portion of the site to the southern public reserve. It is located on the south side of the Hume Highway between Tennyson Road and Cardigan Road. It is bounded to the North West by an industrial/ business park precinct, a commercial building to its direct North-East and low density residential to its South-East and South-West.

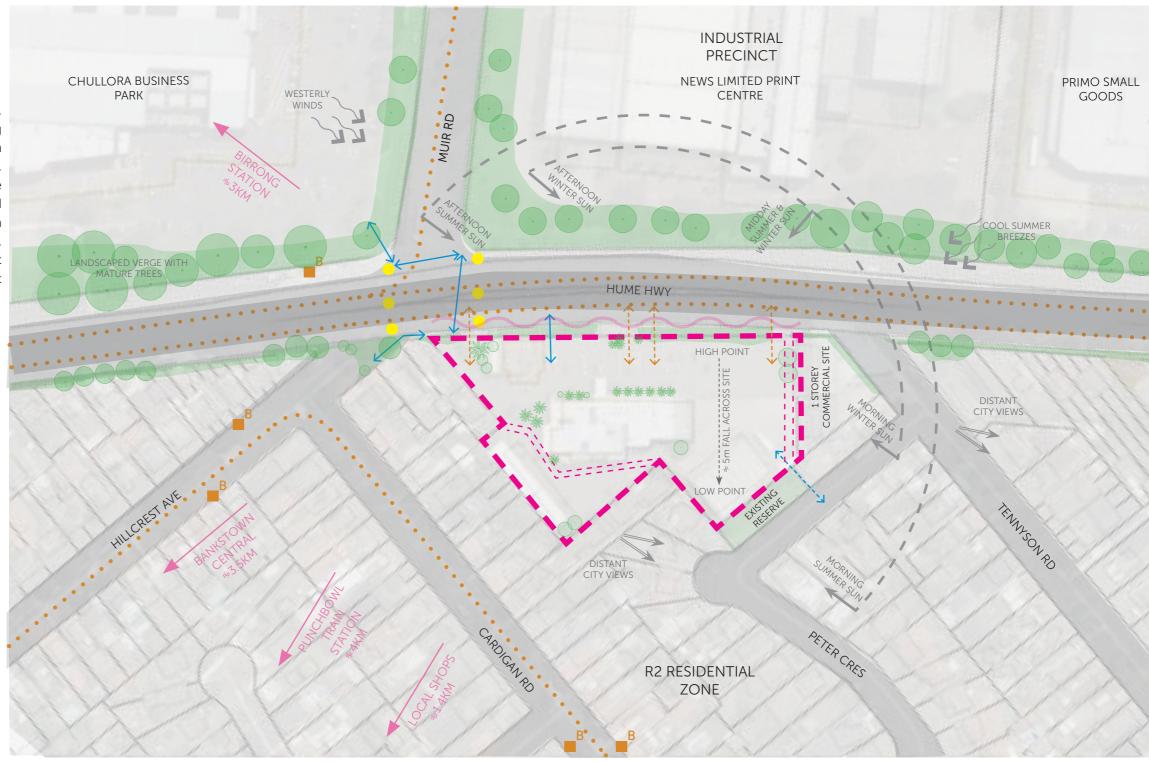
### KEY



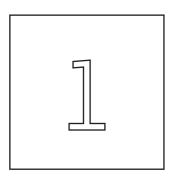
Traffic Lights

Existing Site Trees

Existing Palm Trees







## KEY PLANNING CONTROLS

#### Current controls:

The site is currently subject to the following key planning controls:

- Zone: B6 Enterprise Corridor
- Maximum FSR: 1:1
- Maximum height: Part 14m and part 11m

## LAND ZONING MAP Bankstown Local Environmental Plan 2015



#### **B1** Neighbourhood Centre B2 Local Centre **B4** Mixed Use **B5** Business Development **B6** Enterprise Corridor **B7** Business Park E1 National Park and Nature Reserves IN1 General Industrial IN2 Light Industrial R2 Low Density Residential R3 Medium Density Residential R4 High Density Residential **RE1** Public Recreation RE2 Private Recreation **RU4** Primary Production Small Lots SP1 Special Activities SP2 Infrastructure W1 Natural Waterways

KEY:

## HEIGHT OF BUILDINGS MAP Bankstown Local Environmental Plan 2015



FLOOR SPACE RATIO MAP Bankstown Local Environmental Plan 2015



#### Proposed controls:

The planning proposal seeks to change the planning controls as follows:

- Zone: No change
- Maximum FSR: 1.30:1 with minimum 0.30:1 commercial uses
- Maximum height: Part 11m, Part 17m and part 20m

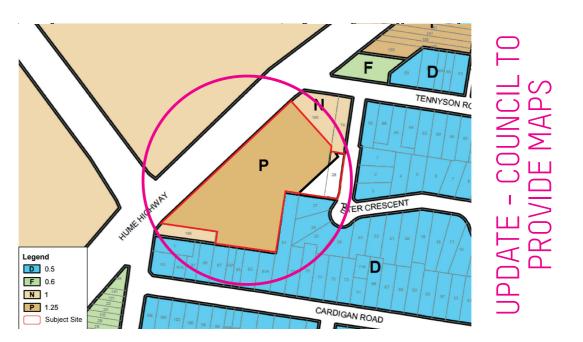
#### PROPOSED ZONING MAP



#### PROPOSED HEIGHT OF BUILDINGS MAP



#### PROPOSED FLOOR SPACE RATIO MAP

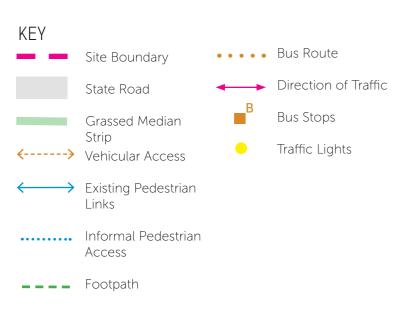


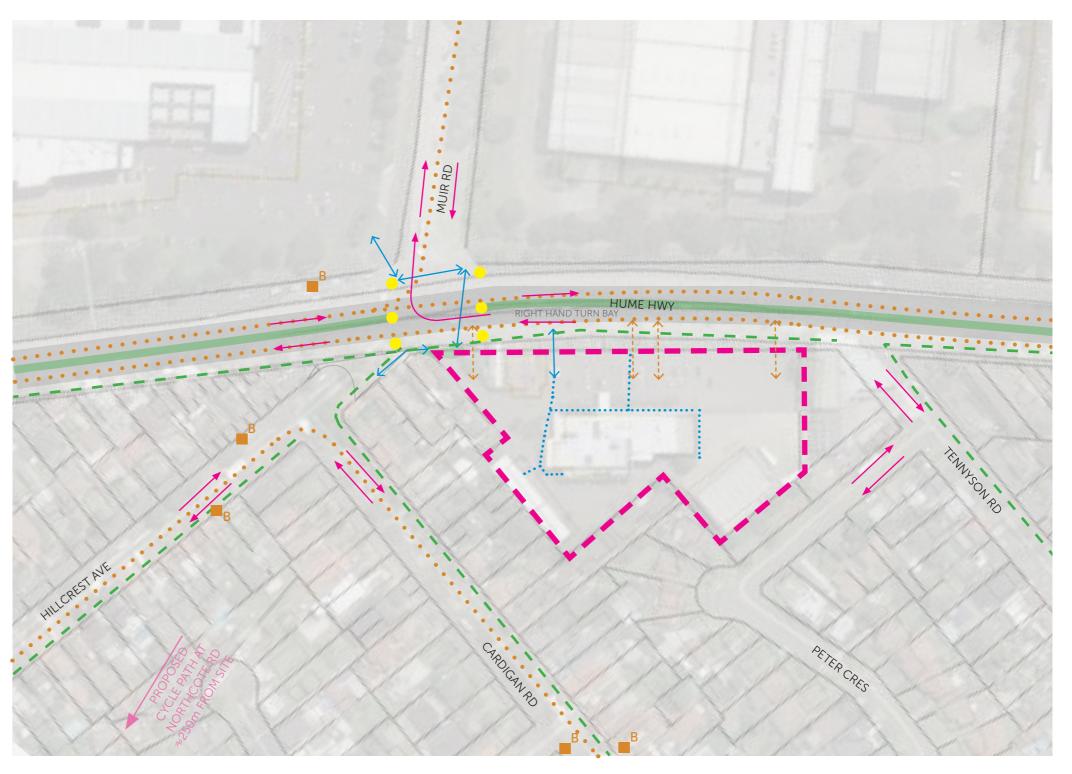
ANALYSIS



## MOVEMENT AND ACCESS

- Site is bounded to the North-West by the Hume Highway which is a state, arterial road
- Vehicular access to the site is currently via a series of 4 driveways off the Hume Highway, located at the middle of this boundary length and at each end
- Current position of southern and middle vehicular exits result in minimal distance to right hand turning bay for existing cars intending to turn right into Muir Rd
- Large area of the site comprises of on grade car parking
- One formalised pedestrian entry off the council footpath is defined to the North of the existing Yummy Restaurant. Informal pedestrian access is via the carpark entries.
- Pedestrian access through the site is currently through the expansive on-grade car parking without a formalised route.









## PUBLIC DOMAIN AND LANDSCAPE

- North-West boundary of site along the Hume Highway forms part of the remembrance drive landscape corridor
- A grassed council verge exists along the Hume highway with intermittent, small (approximately 3m tall) trees lining the street
- A landscaped verge with mature trees stretches along the North-Western side of the Hume Highway, adjacent to the industrial precinct
- Council reserve and associated play zone sits adjacent to the eastern boundary of the site and provides opportunities for pedestrian connection to peter crescent
- The surrounding streetscape to the North-East and North-West of the site comprises of low traffic residential streets generally characterised by footpaths along one side and grassed council verges with minimal fencing along street-facing property boundaries











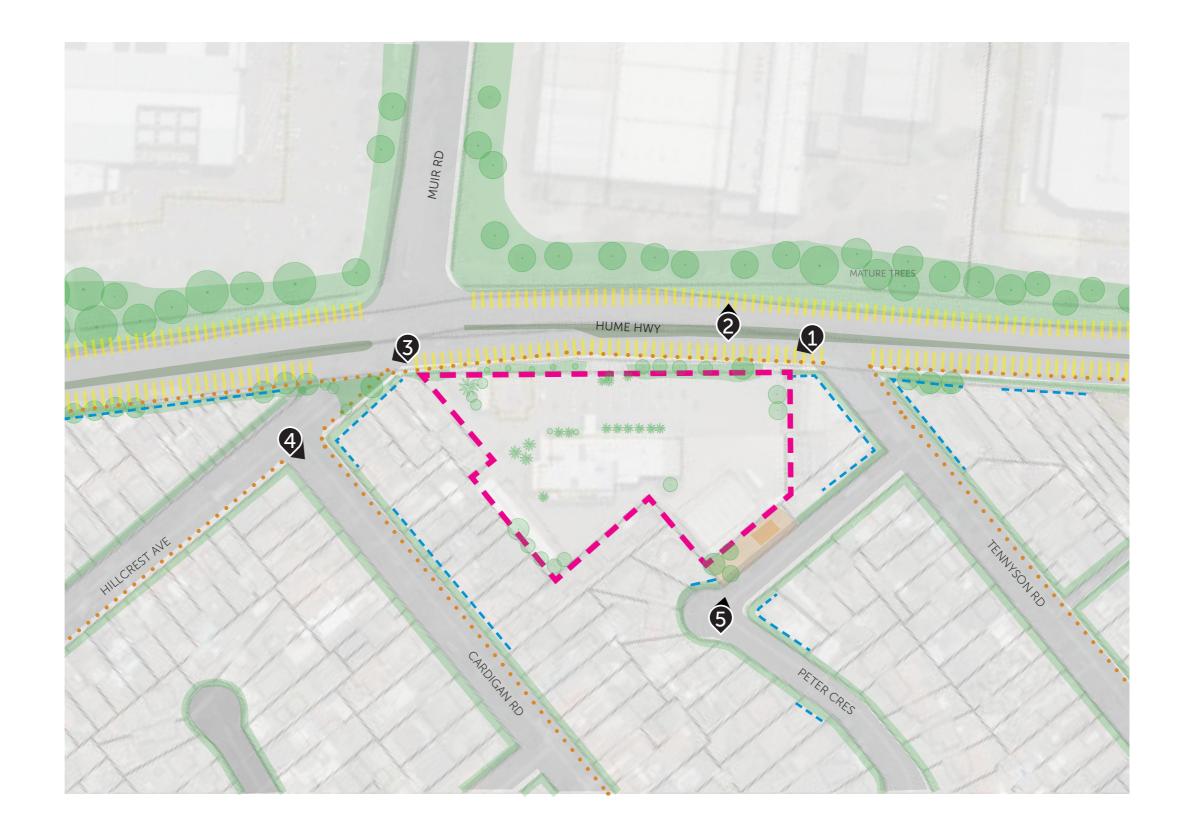


















## BUILT FORM AND LANDUSE







18 Hume Hwy, Greenacre



185 Hume Hwy, Greenacre





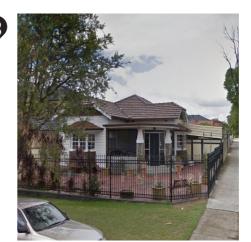
26 Hume Hwy, Greenacre



28 Peter Cres, Greenacre



161 Hume Hwy, Greenacre



106 Cardigan Rd, Greenacre









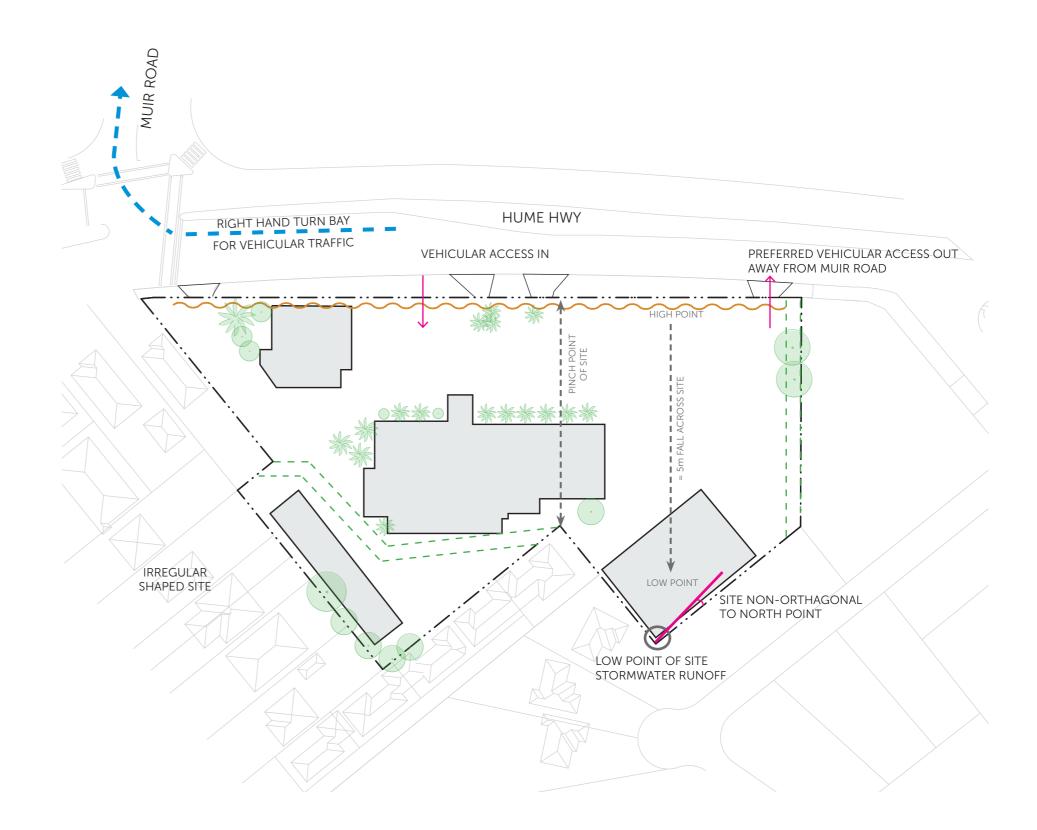
## SITE CONSTRAINTS

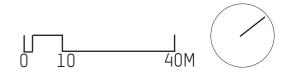
- Irregular geometry of site present separation challenges when siting the buildings
- Approximate 5m slope to south-east corner of site.
- Existing stormwater easement to NE & S of site

KEY

Acoustic attenuation to Hume Highway

Existing easement



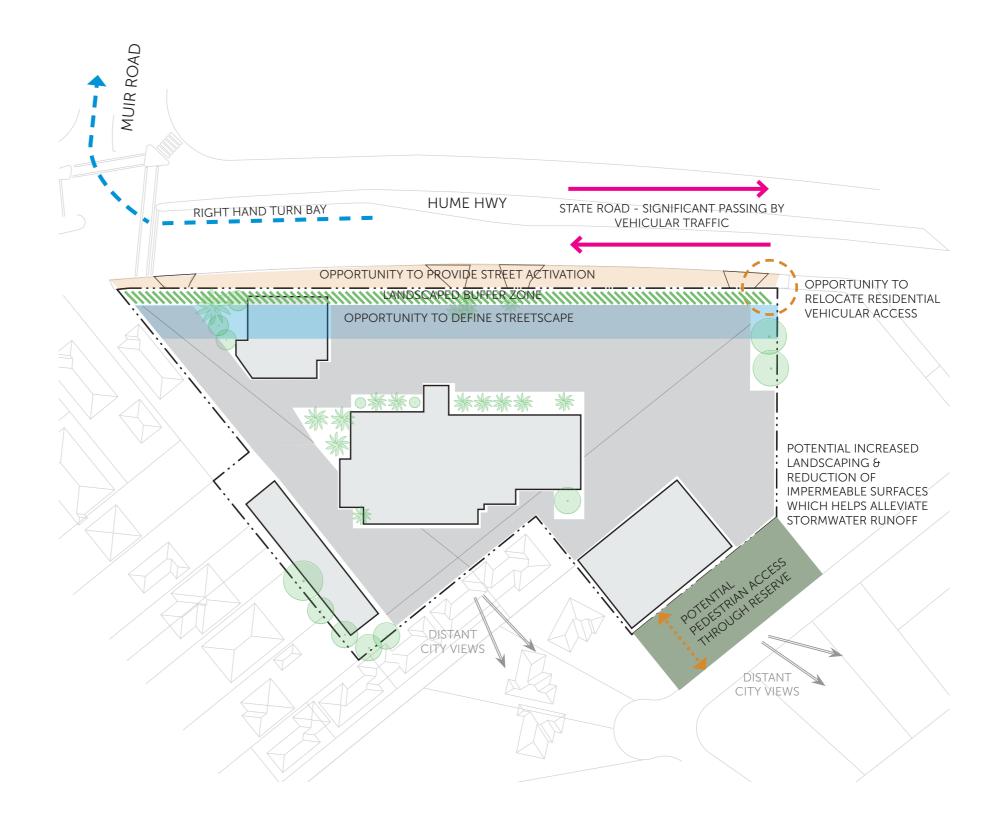


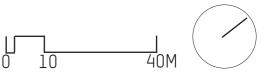


## SITE OPPORTUNITIES

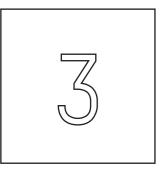
- Opportunity to define streetscape
- Opportunity to provide street activation
- Potential increased landscaping and reduction of impermeable surfaces which helps alleviate stormwater runoff.
- Opportunity to improve site stormwater system
- Opportunity to increase setbacks to southern boundaries
- Located on a state road with significant passing by traffic
- Opportunity to acoustically attenuate site from Hume Highway
- Opportunity to relocate car parking underground and increase landscaping







VISION AND DESIGN PRINCIPLES



## VISION AND DESIGN PRINCIPLES

#### **VISION**

The vision for the site is to transform the existing ageing The Palms Hotel into a high quality mixed use development with multiple building forms, a large and prominent commercial tenancy, high amenity residential apartments, basement parking, and extensive landscaping.

#### **DESIGN PRINCIPLES**

#### Scale

- The building scale reflects the desired future character of the site, positioned as a key site along the Hume Highway corridor
- Articulated apartment elevations along the Hume Highway and site boundaries help reduce bulk, address the street and respond to the adjacent southern massing of the R2 residential
- Top storey of the 5-storey apartment building along the Hume Highway (Building B) is recessed to reduce impact of built form and minimise the visual appearance of the building height

#### Density

- Apartment building typology provides localised density within each building, opening up greater portions of the site to landscaping opportunities and public access
- The proposed development provides a variety of dwelling types in the form of 1, 2 and 3 bedroom apartments along with dual key apartments above the GF commercial uses on the north west portion of the site along the hume highway
- Increase the built form and density of the site via the inclusion of approximately 127 apartments (Buildings A, B, C & D), along with one level plus mezzanine of hospitality uses at the south-west corner of the site (Building A) and one level of commercial uses at the ground floor of Building B, adjacent to the Hume Highway.

#### **Built Form**

- Provide a higher quality architectural outcome through a series of considered and articulated buildings.
- Articulated apartment elevations help reduce bulk, address the street and respond to the adjacent massing of the low density to the south-east and south-west of the site
- Vertical articulation, in the form of framed balconies, screens and façade detailing counterbalance the horizontally of buildings along the Hume Highway.
- An additional fifth level to the north east corner of the site to provide a visual cornerstone of the site and clearly announce the site to passing traffic.
- Building envelope articulation and landscaping contribute to the softening of the built form, aiding the transition to the surrounding lower density dwellings.

- $\bullet$  Building setback from the property boundary along the Hume Highway of 12m for the residential uses (Building B and upper levels of Building A) and 5m for the ground floor hospitality and commercial uses (Building A & B) allows for a generously proportioned streetscape whilst still providing street activation along the Hume Highway.
- The site naturally slopes no to north-west to south-east which is addressed via terraced landscaping to the rear of the southern apartment buildings

#### Landscape

- Tall vertical tree planting along the Hume Highway establishes a coherent character either side of the street, mirroring the mature planning located along the north-western verge of the Hume Highway and softening the visual appearance of the site.
- Tree planting aids screening and privacy for residential dwellings along the Hume Highway
- Proposal seeks to increase landscaping/permeable surfaces and upgrade the existing on-site stormwater system
- Proposed tree planting along the Hume Highway aids screening and visual/acoustic privacy for residential dwellings.

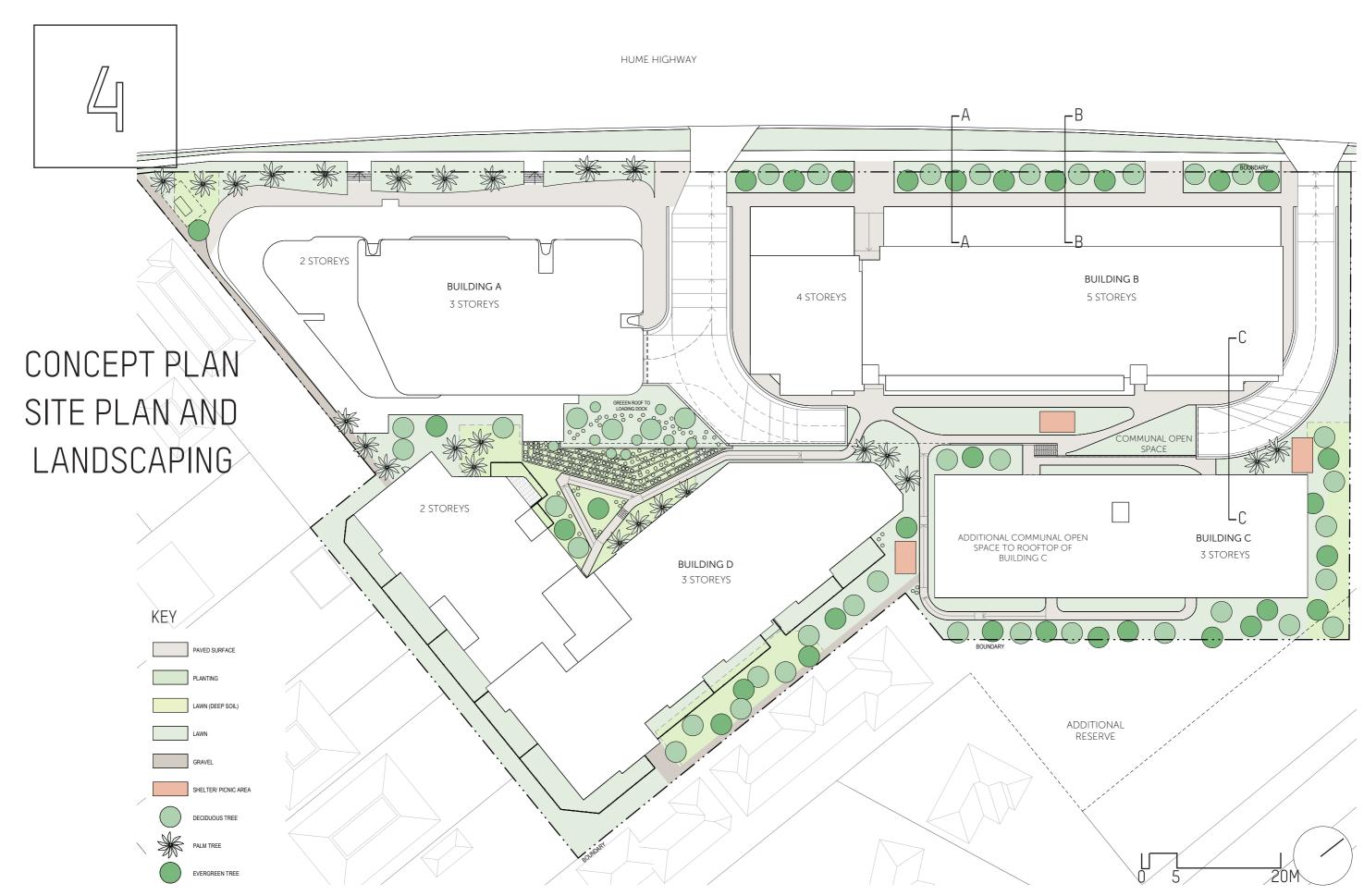
#### Security

- Vistas through the site are key in establishing public access through the site. External private spaces are delineated via landscaped buffer zones at the ground plane, protecting the private external spaces from visual intrusion but allowing visual permeability for inhabitants
- High visibility of public corridors from surrounding residential buildings ensure 'eyes on the street' and help create safe zones for the public occupants
- Street lighting will aid nighttime visibility through site

#### **Social Dimensions**

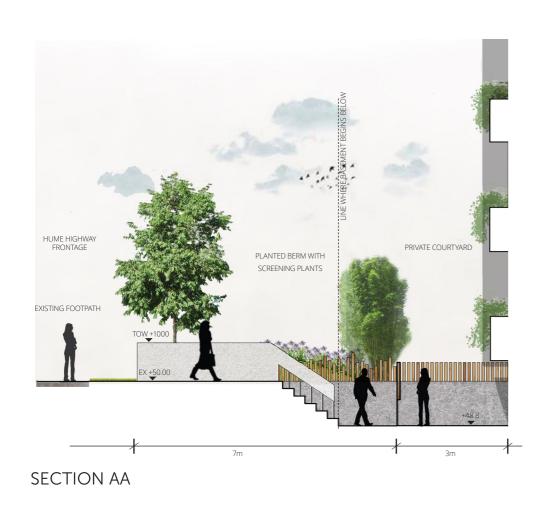
- Access through the site provides a rich and varied experience through the provision of multiple paths, constantly changing vistas and opportunities for localised recreational activities and casual interaction at the centre of the site
- Public and residents are provided opportunities to take different routes through the site to benefit from diverse experiences of the site

CONCEPT

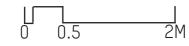




# CONCEPT PLAN LANDSCAPING



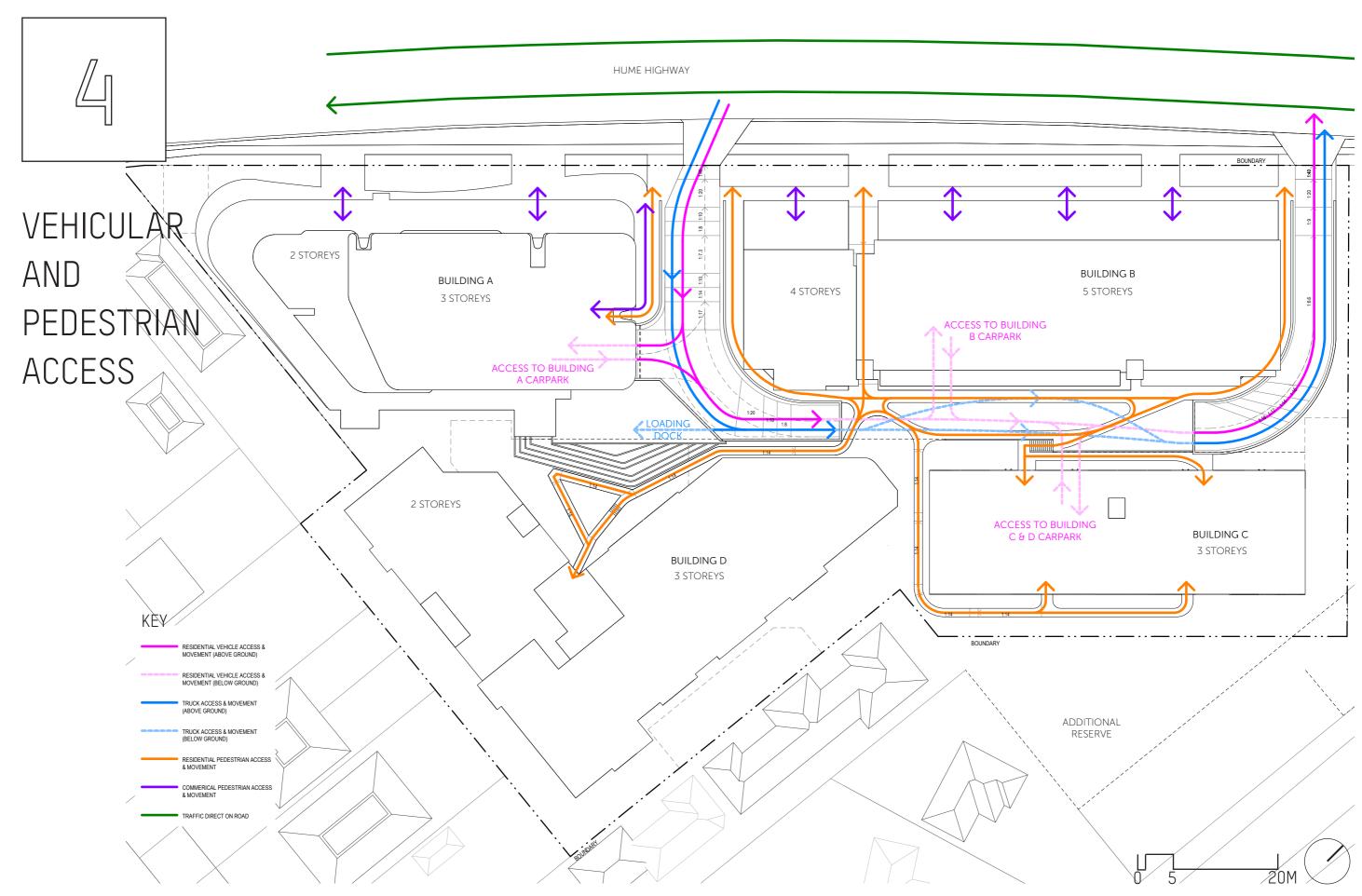






SECTION CC







## **BUILT FORM**

#### DEVELOPMENT SUMMARY

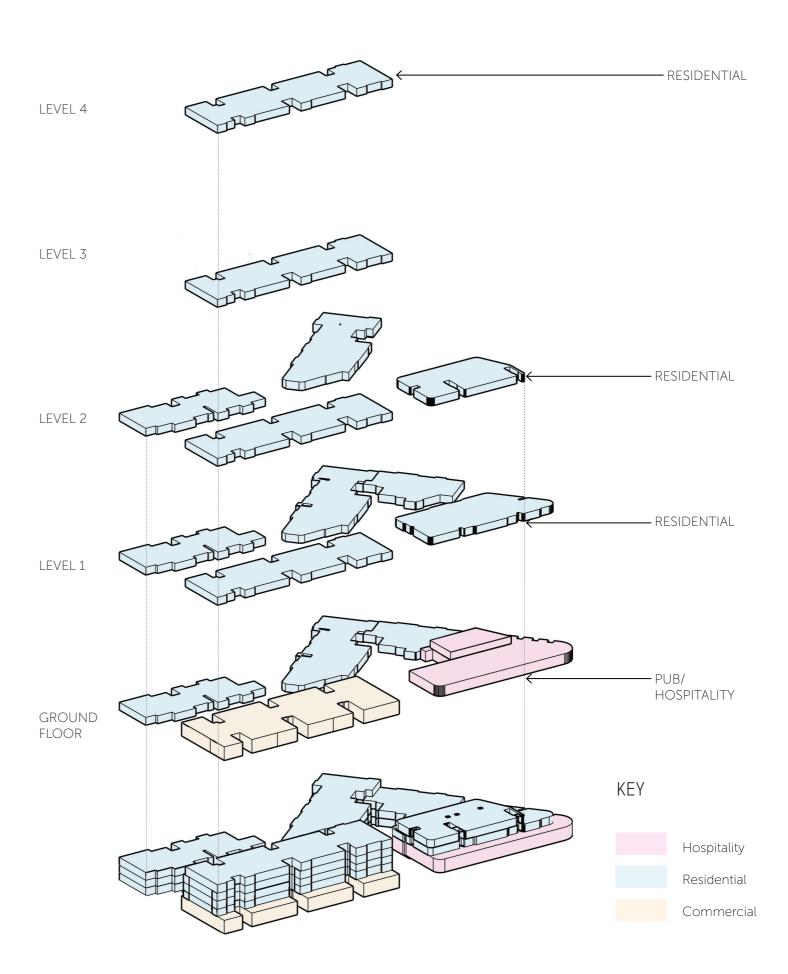
Apartments	
Total No. of Apartments	127

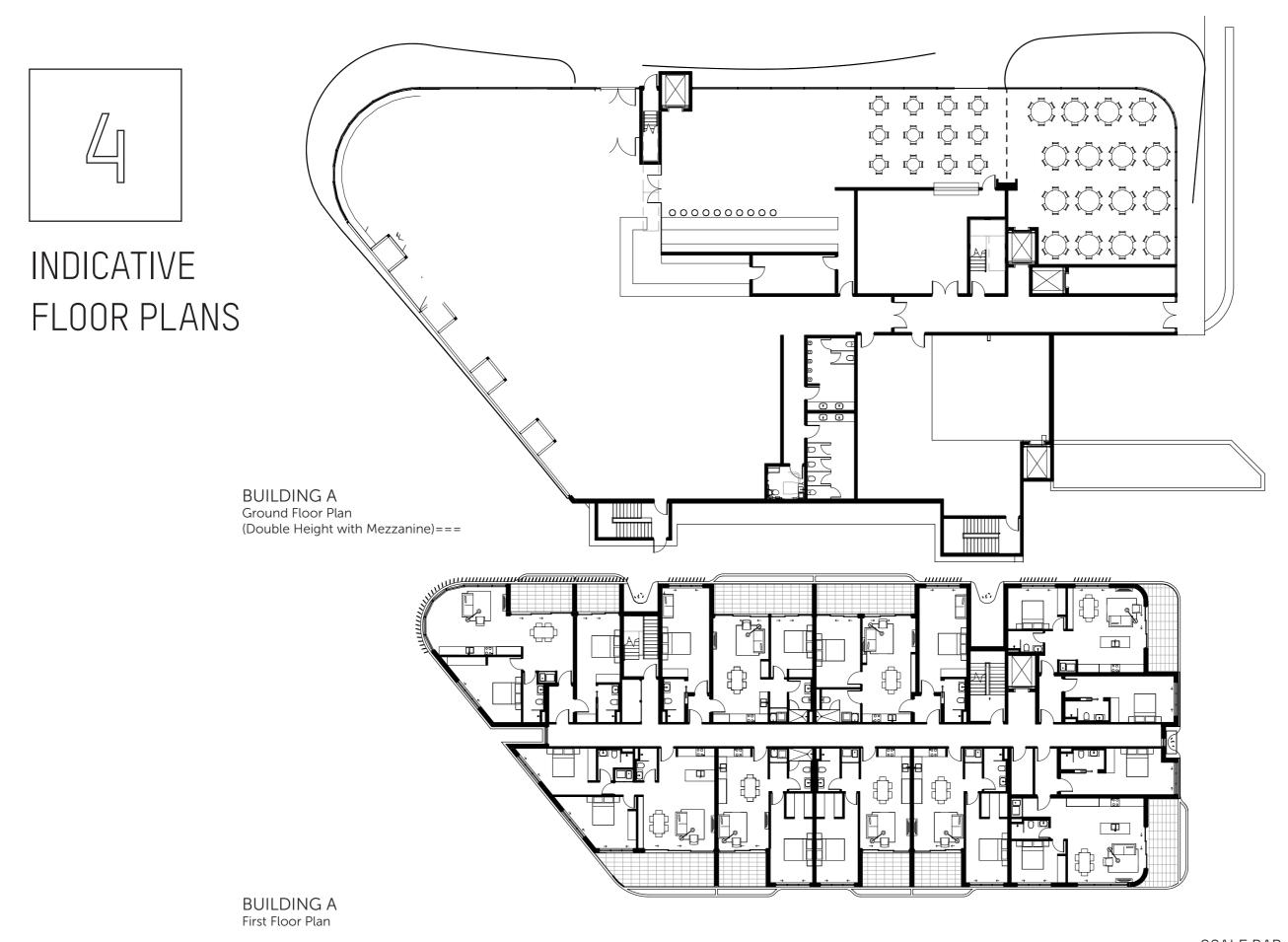
UNIT MIX (Building A)		
1 bed	6	37.50%
2 bed / 2 bed dual key	10	62.50%
Total	16	

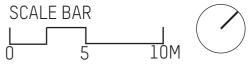
UNIT MIX (Building B, C & D)		
1 bed	20	18.02%
2 bed	83	74.77%
3 bed	8	7.21%
Total	111	

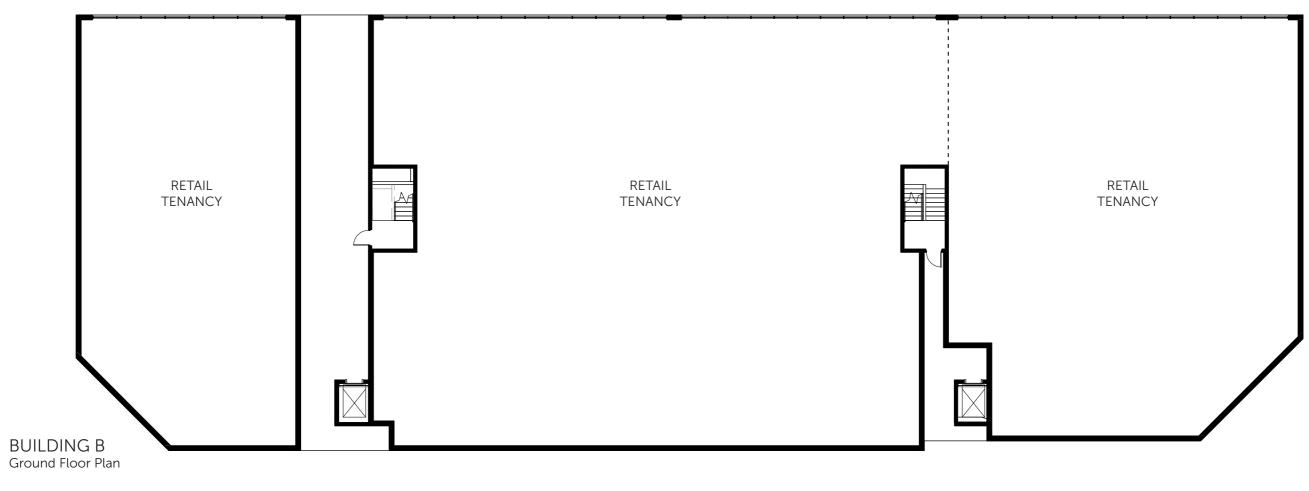
Carparking				
	DCP	Proposed	Visitor	
Total Residential Parking	150	150		25
Total Residential Parking incl. Visitor	175	175		

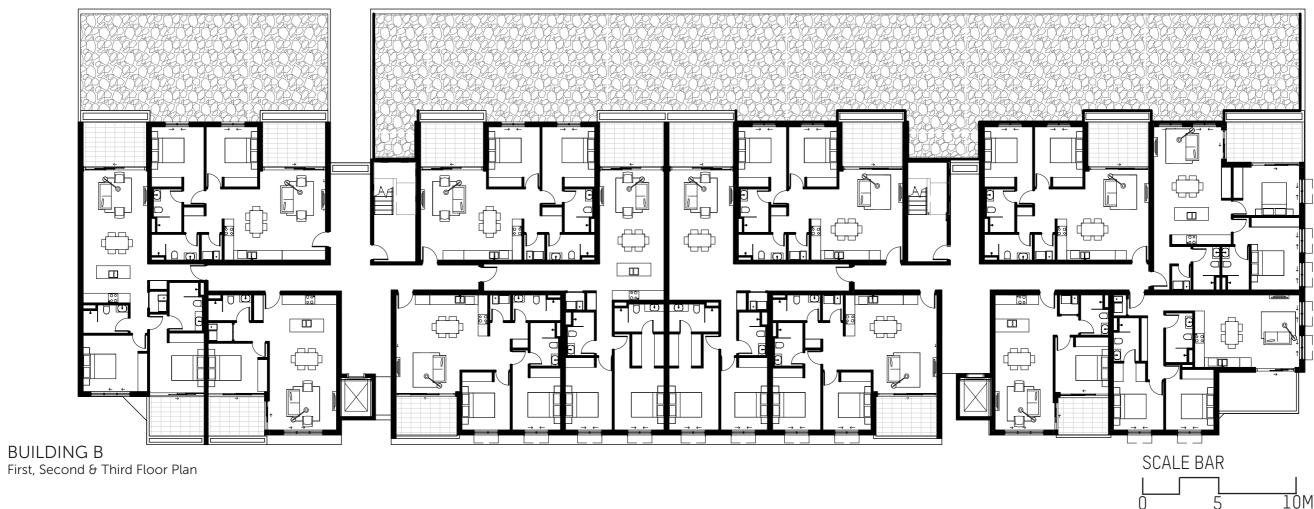
Area Compliance Table		
Area (sq.m)		
Site	11,744	
Proposed Maximum FSR 1.3:1	15,267	
Minimum Commercial FSR 0.3:1	3,523	
Compliance of Proposal	YES	





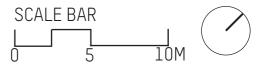


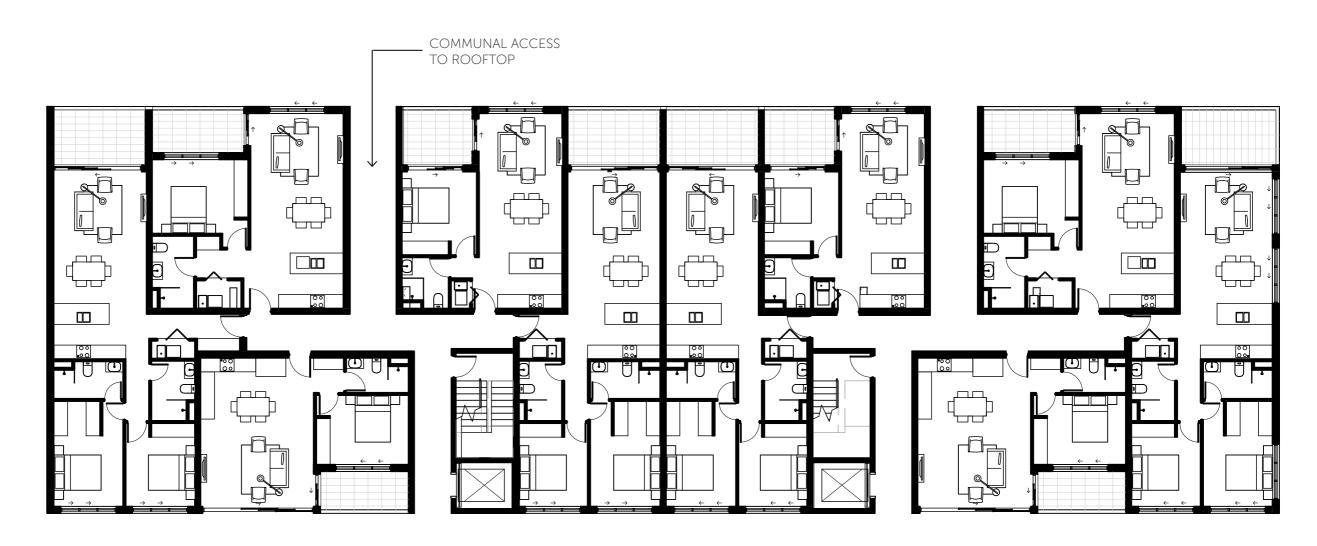






BUILDING B Fourth Floor Plan

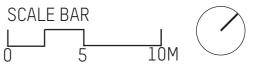




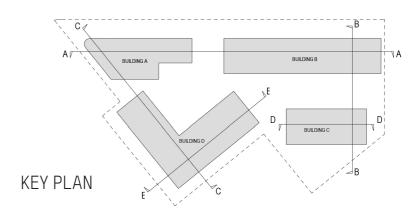
BUILDING C Typical Floor Plan



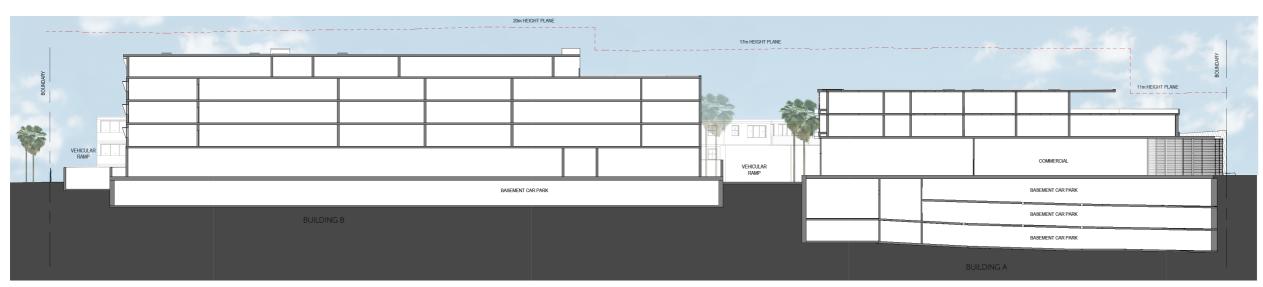




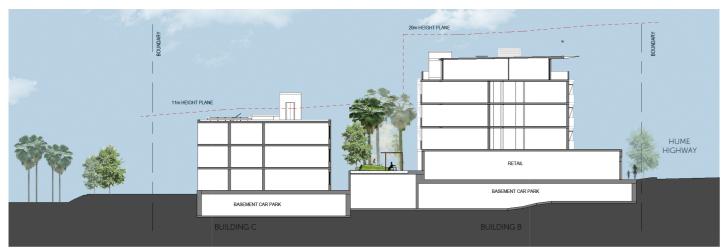




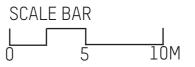
## INDICATIVE BUILDING SECTIONS

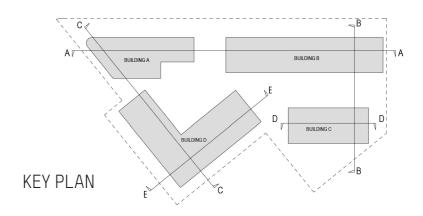


SECTION AA



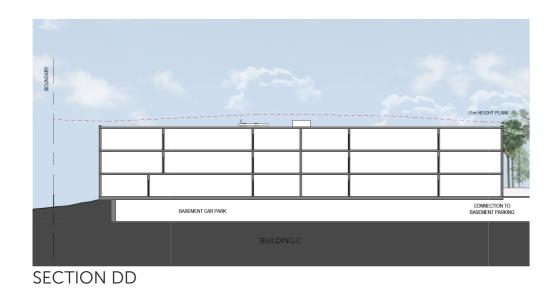
SECTION BB







SECTION CC

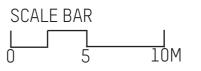


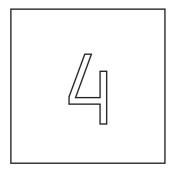
SCREENED
MECHNOLI PLANT

BASEMENT CAR PARK

BUILDING D

SECTION EE





# BUILT FORM MASSING



LOOKING SOUTH-EAST FROM THE HUME HIGHWAY



LOOKING NORTH-EAST FROM THE HUME HIGHWAY

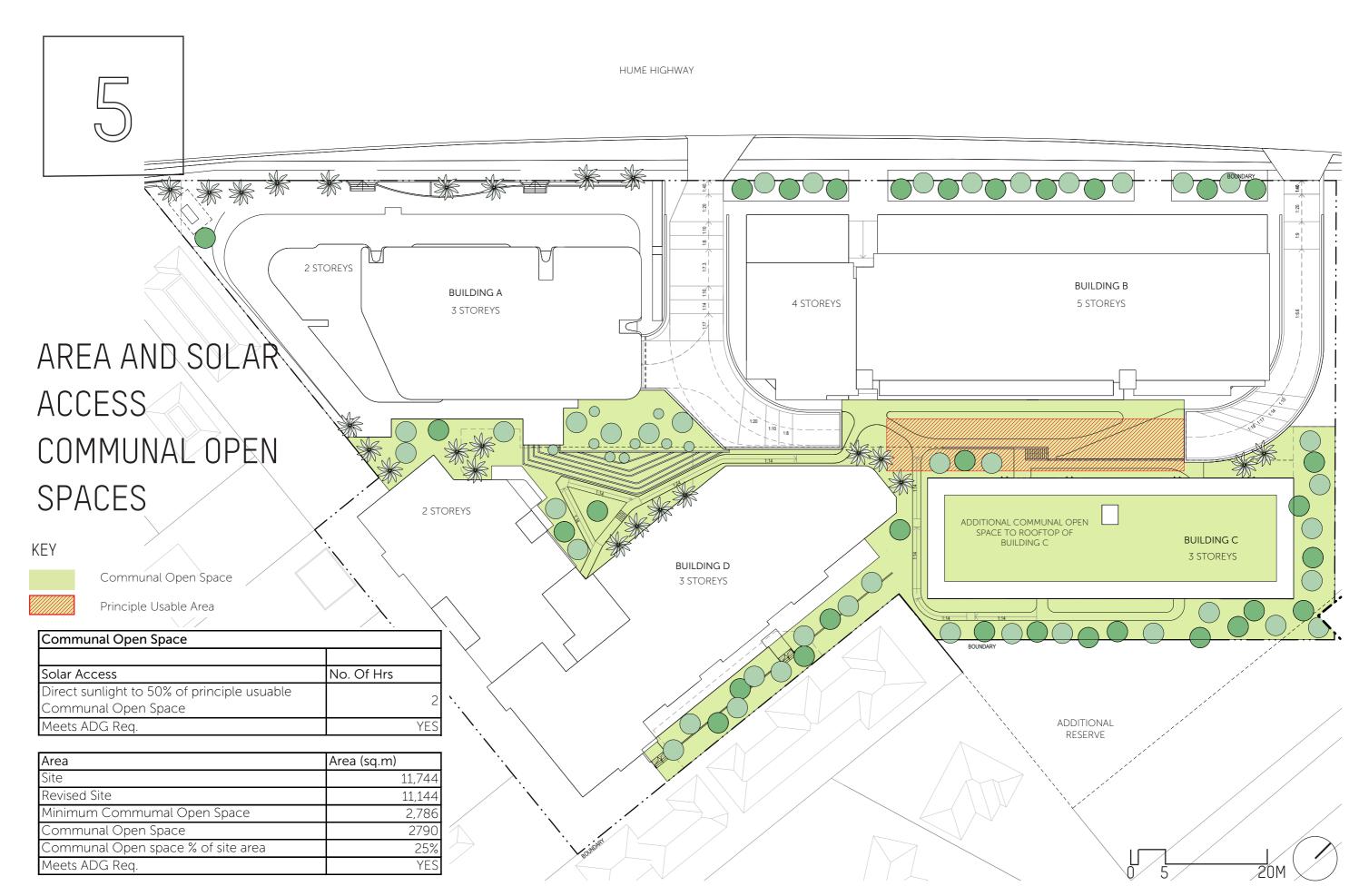


LOOKING NORTH-EAST FROM THE HUME HIGHWAY



LOOKING SOUTH-EAST FROM THE HUME HIGHWAY

SEPP 65 / ADG COMPLIANCE





Building A

Building C

Total Apartments

Meets ADG Req.

Apts with 2hrs or more solar access Apts with less than 2hrs solar access % of apts with 2h of solar access

## SOLAR ACCESS RESIDENTIAL

The diagram shows that the proposal provides adequate solar access, exceeding the minimum of 70% of units as outlined in the apartment design guide. This has been achieved through the strategic placement of living area and balcony locations to maximise access to natural sunlight.

Total Apartments	16
Apts with 2hrs or more solar access	9
Apts with less than 2hrs solar access	7
% of apts with 2h of solar access	56%
Meets ADG Req.	NO
Building B	No. Of Apts
Total Apartments	44
Apts with 2hrs or more solar access	31
Apts with less than 2hrs solar access	13
1	
% of apts with 2h of solar access	70%

No. Of Apts

No. Of Apts

30 21

70%

YES

Building D

Total Apartments

Apts with 2hrs or more solar access

Apts with less than 2hrs solar access	9
% of apts with 2h of solar access	76%
Meets ADG Req.	YES
SUMMARY	No. Of Apts
Total Apartments within development	127
Total Apartments with 2hrs or more solar	
access	89
% of apts with 2h of solar access	70%
Meets ADG Req.	YES

No. Of Apts

28



BOUNDARY





BOUNDA

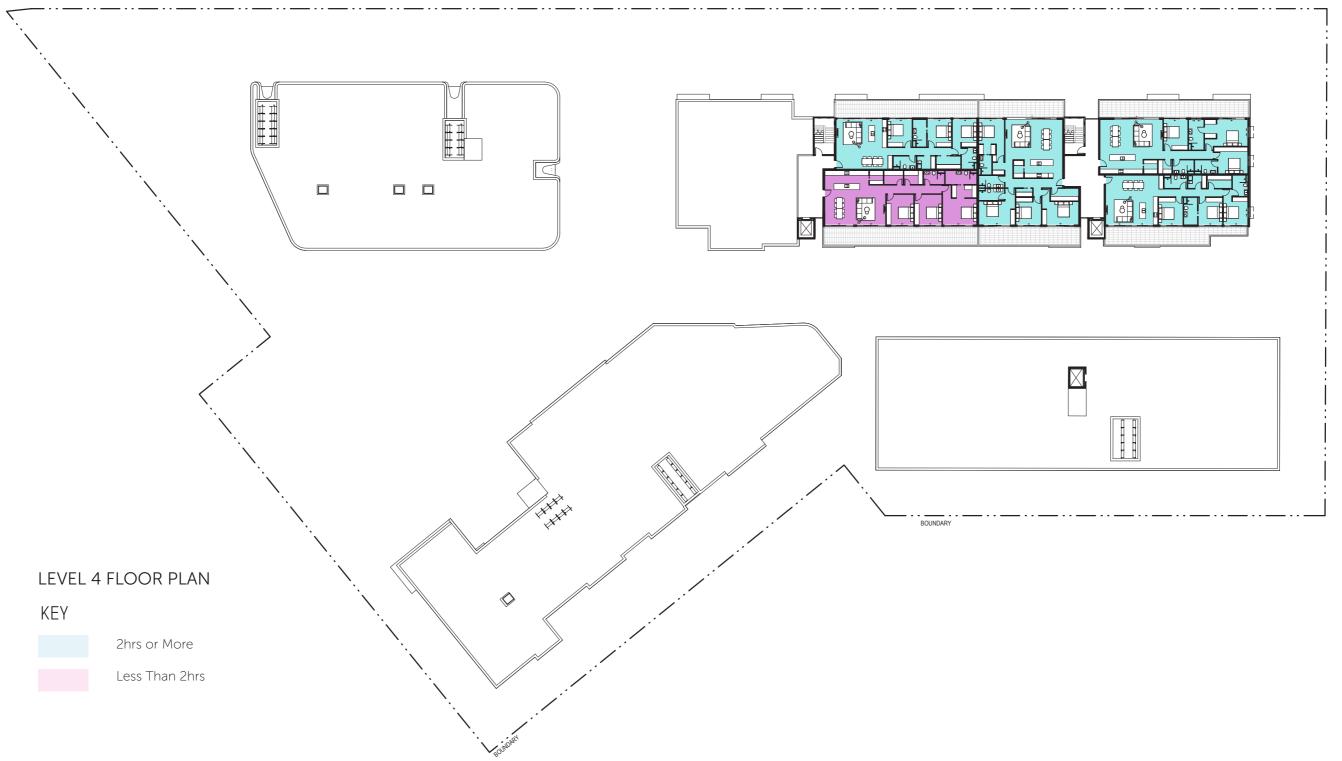








BOUNDARY

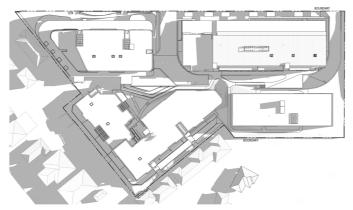


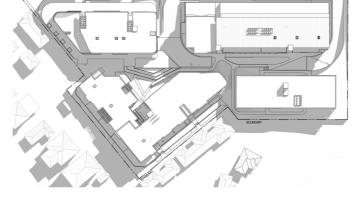


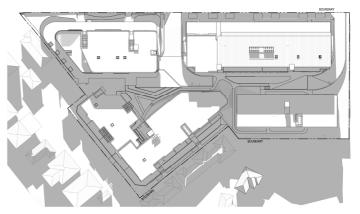
# SOLAR ACCESS WITHIN DEVELOPMENT SHADOW DIAGRAMS

The proposal seeks to maximise solar access to the apartments. This has been achieved by building separation and orientation. The majority of the apartments to the South-Eastern portion of the site North and allowing South-Eastern portion of the site face North and allowing for dual aspect apartments along the Hume Highway where the built form runs parallel to the boundary echoing the existing site conditions.

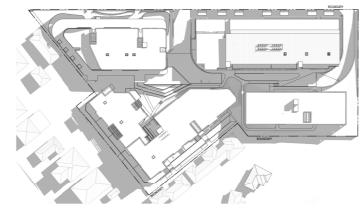
of apartments achieve 2hrs of sun on June 21, in compliance with SEPP 65.



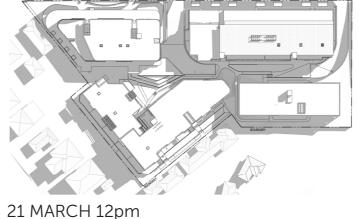


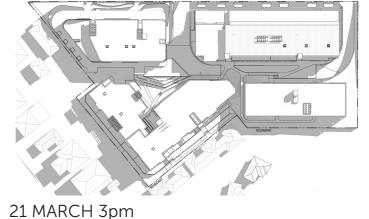


21 JUNE 9am 21 JUNE 12pm 21 JUNE 3pm

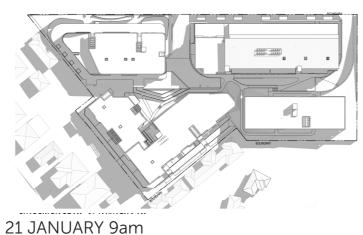


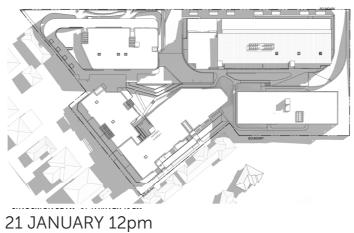
21 MARCH 9am

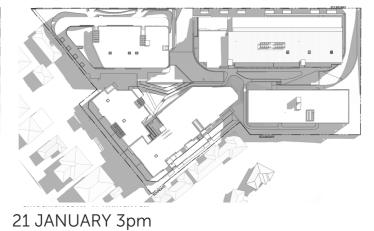




Despite awkward site geometry and orientation, 70%









# SOLAR ACCESS NEIGHBORING PROPERTIES SHADOW DIAGRAMS

The proposal seeks to minimize the impact of overshadowing to the neighbouring properties. This has been achieved by increased setbacks of 9m at the South-Eastern section of the site and with the articulation of the built form at the sites most southern edge. The proposal ensures that the principal, usable open space to adjoining properties maintains solar access at the winter solstice (June 21) for at least 2hrs.

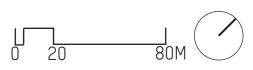








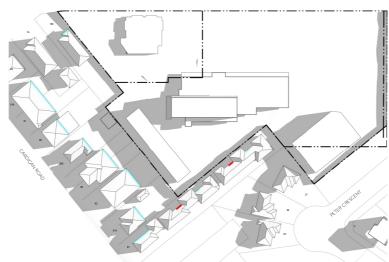




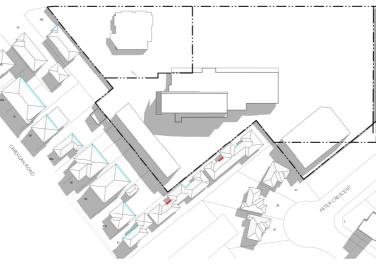


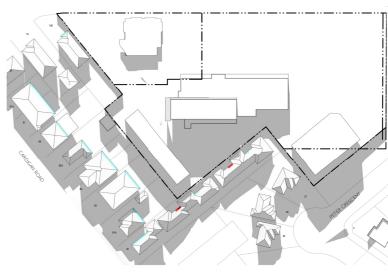
# SOLAR ACCESS FOR NEIGHBORING PROPERTIES SHADOW DIAGRAMS

The proposal seeks to minimise the impact of overshadowing to the neighbouring properties. This has been achieved by increased setbacks of 9m at the South-Eastern section of the site and with the articulation of the built form at the sites most southern edge. The proposal ensures that living spaces to adjoining properties maintains solar access at the winter solstice (June 21) for at least 2 hrs.





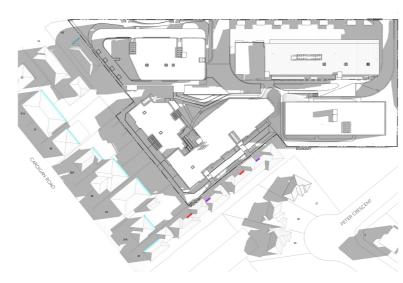




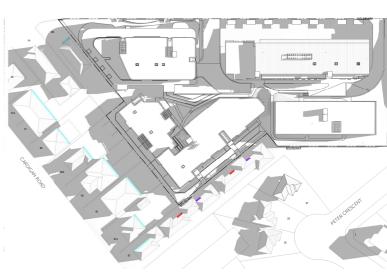
21 JUNE 9am Existing Conditions

21 JUNE 12pm Existing Conditions

21 JUNE 3pm Existing Conditions







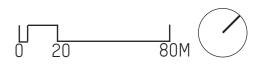
21 JUNE 9am New Development

21 JUNE 12pm New Development

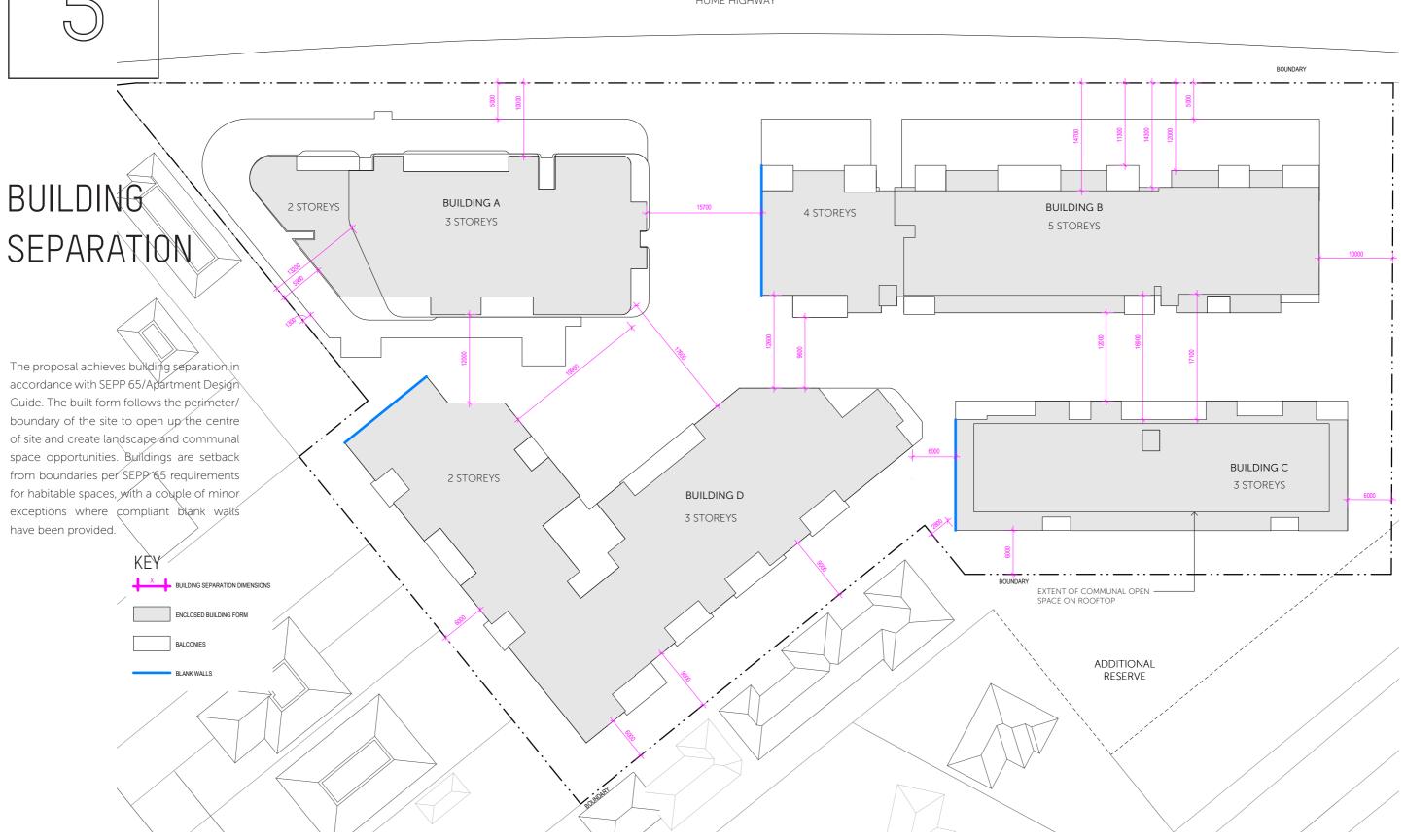
21 JUNE 3pm New Development

KEY

Living spaces with at least 2hrs solar access (between 9AM and 3PM on the 21st of June)\*



HUME HIGHWAY





## **CROSS VENTILATION**

The diagram shows that the proposal provides predominantly dual aspect units exceeding the minimum of 60% of the total units within the entire development as outlined in the apartment design guide. This has been achieved by the inclusion of cross through and corner apartments along with open corridors and large centralized voids at entry points.

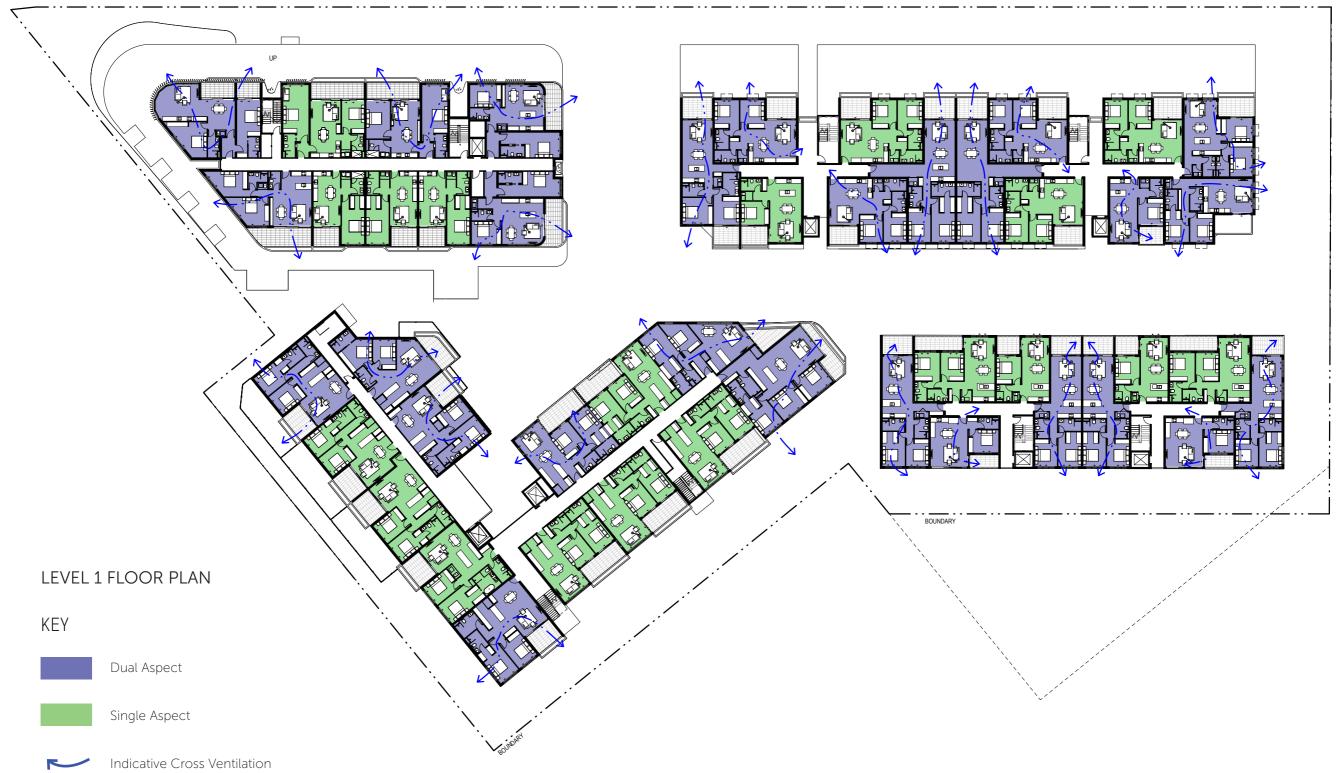
Building A	No. Of Apts
Total Apartments	16
Apts with dual aspect	12
Apts with single aspect	4
% of apts with dual aspect cross ventilation	75%
Meets ADG Req.	YES
Building B	No. Of Apts
Total Apartments	44
Apts with dual aspect	32
Apts with single aspect	12
% of apts with dual aspect cross ventilation	73%
Meets ADG Req.	YES
Building C	No. Of Apts
Total Apartments	30
Apts with dual aspect	18
Apts with single aspect	12
% of apts with dual aspect cross ventilation	60%
Meets ADG Req.	YES

Building D	No. Of Apts
Total Apartments	37
Apts with dual aspect	19
Apts with single aspect	18
% of apts with dual aspect cross ventilation	51%
Meets ADG Req.	NO
SUMMARY	No. Of Apts
Total Apartments within development	127
Total Apartments with dual aspect cross	
ventilation	81
% of apts with dual aspect cross ventilation	64%
Meets ADG Req.	YES

BOUNDAR'

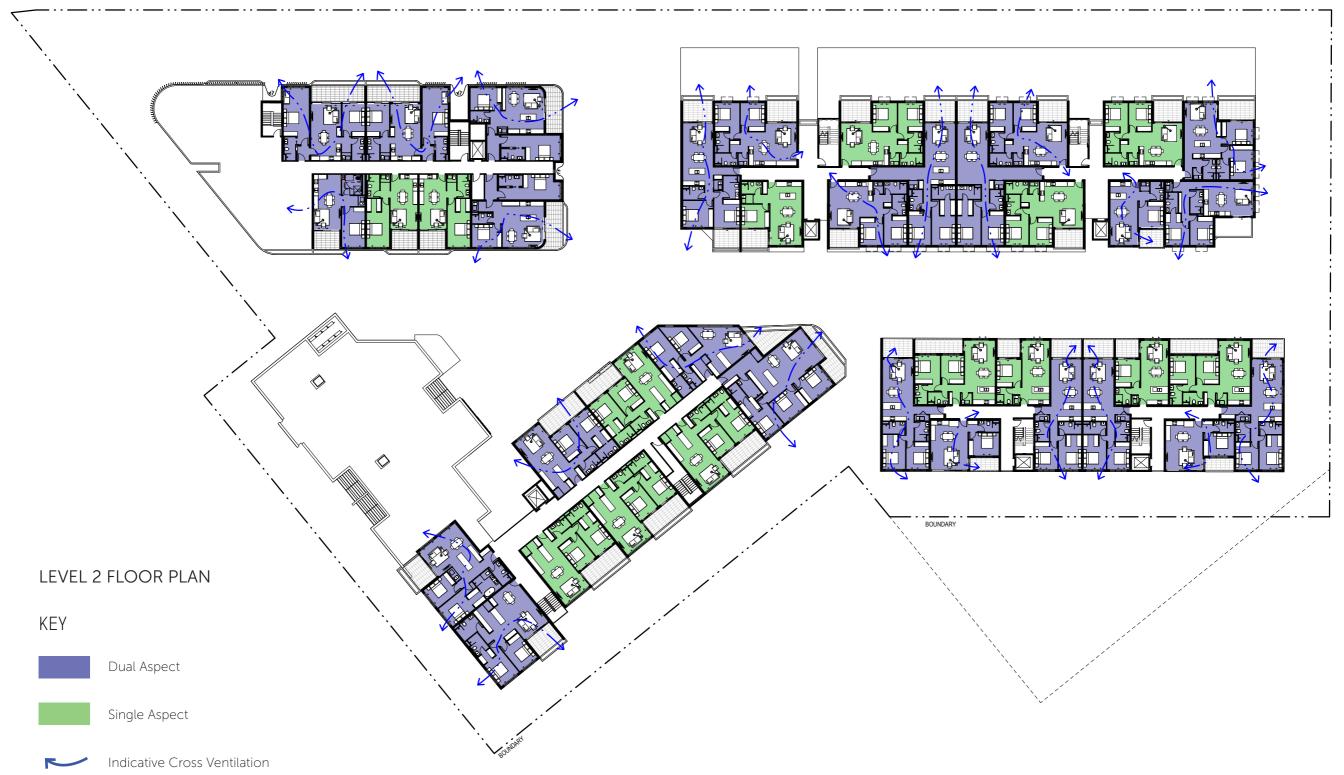








BOUNDARY

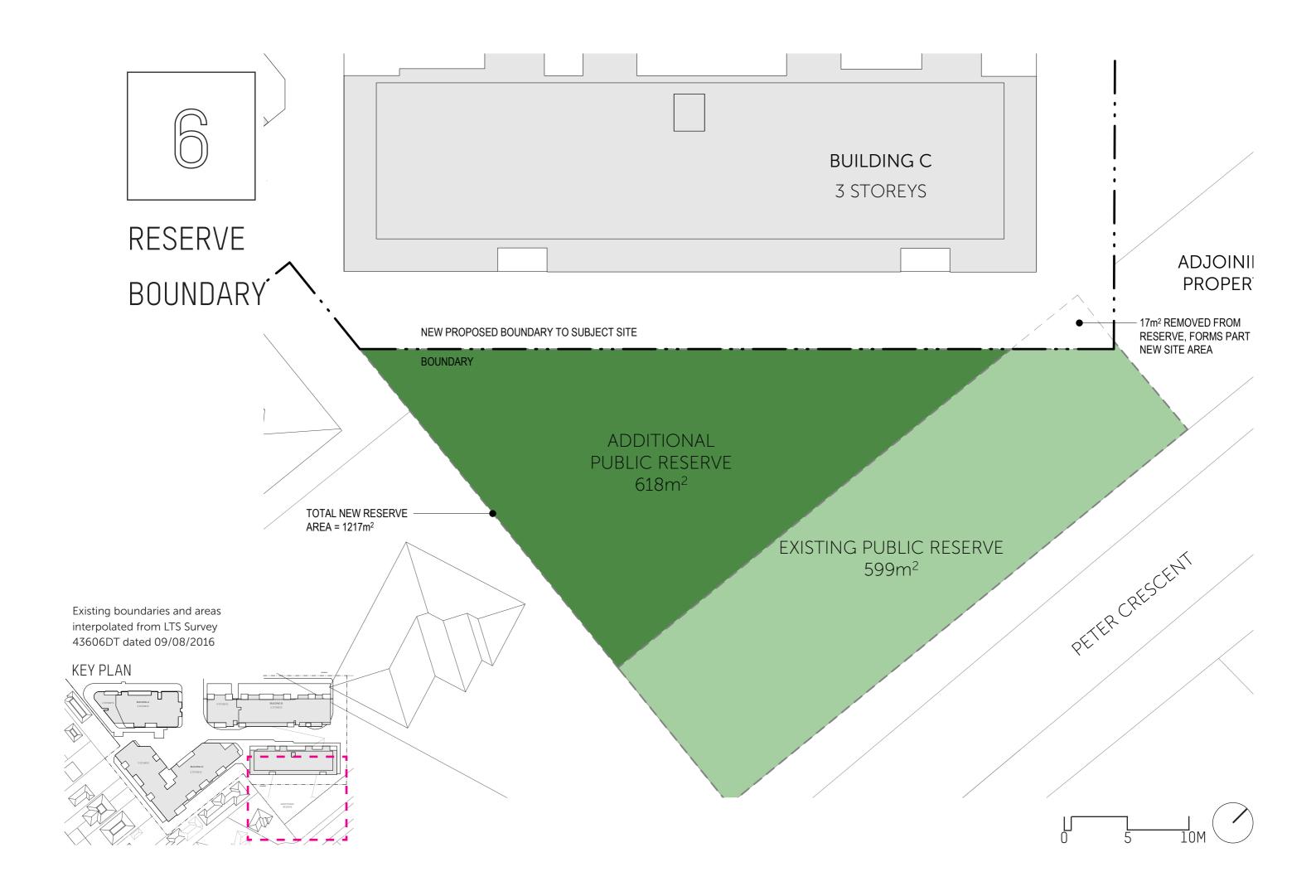


BOUNDARY LEVEL 3 FLOOR PLAN KEY Dual Aspect Single Aspect Indicative Cross Ventilation



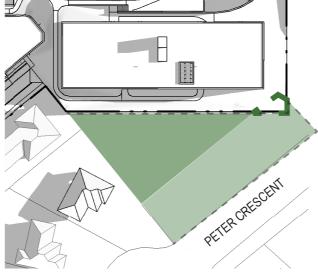
LEVEL 4 FLOOR PLAN KEY Dual Aspect Single Aspect Indicative Cross Ventilation

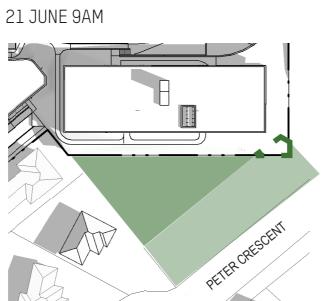
PUBLIC RESERVE



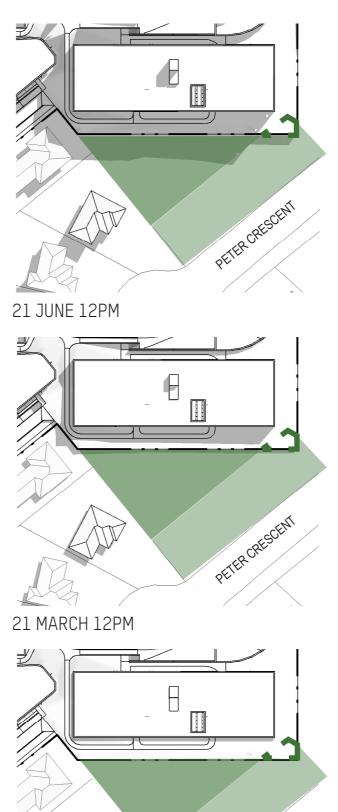


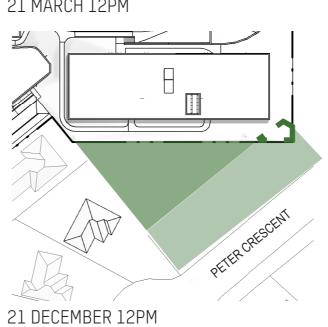
# RESERVE SHADOW DIAGRAMS

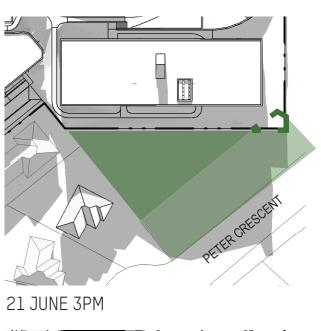


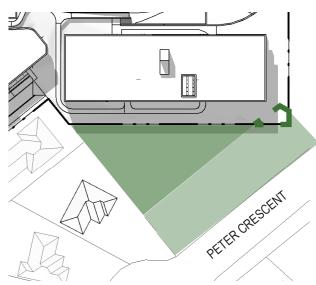


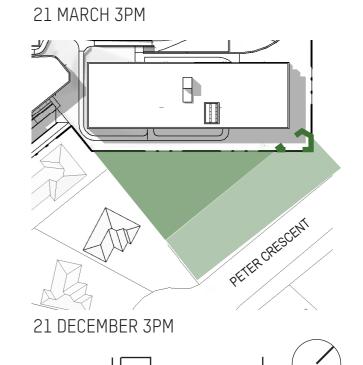














RECOMMENDATIONS



## RECOMMENDATIONS

This report has presented a concept design for a high quality mixed use development which aligns with the site's planning proposal. The design responds sensitively to site constraints, contributes positively to the streetscape and locality, and demonstrates excellent amenity for residents, generally complying with key ADG design criteria relating to communal open space, private open space, overshadowing, solar access, building separation and natural cross ventilation. Therefore, it is recommended that the planning proposal be supported from an urban design perspective.

### Key Features:

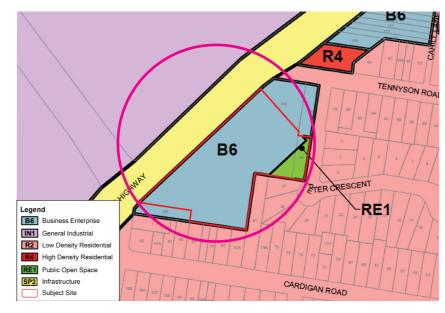
- A total maximum 15,267 sq.m of GFA across the site representing an FSR of 1.30:1 (based on an area of 11744 sq.m). Site area has been revised to provide an additional area of approximately 329sqm to the public reserve.
- A minimum of 23.08% of commercial GFA or 0.3:1 of the total 1.3:1 FSR
- A maximum building height of 20m at the north-east corner of the site setback 12m from the Hume Highway boundary to add visual interest and announce the site. A 17m height allowance to the north-west of the site setback 12m from the Hume Highway boundary. 11m elsewhere on the site
- A 12m setback for residential uses and 5m setback for commercial uses along the Hume Highway

### Proposed controls:

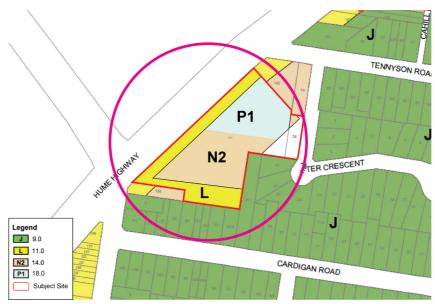
The planning proposal seeks to change the planning controls as follows:

- Zone: No change
- Maximum FSR: 1.30:1 & minimum 0.30:1 for commercial uses (based on an area of 11,744 sq.m)
- Maximum height: Part 11m, Part 17m and part 20m

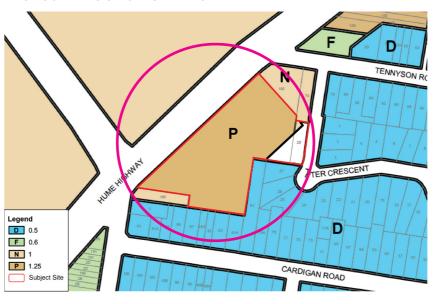
### PROPOSED ZONING MAP



### PROPOSED HEIGHT OF BUILDINGS MAP



### PROPOSED FLOOR SPACE RATIO MAP



# UPDATE - COUNCIL TO

# PDATE - COUNCIL TO PROVIDE MAPS

# squillace

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Squillace are Architects and Interiors Designers.

We create design driven responses across a range of project types, including single dwellings, medium and high density residential, hospitality, commercial and adaptive re-use.

Our approach focuses on the holistic practice of architecture, incorporating a dynamic design aesthetic with a fundamental understanding of commercial realities.

We see opportunities in challenges and deliver architectural solutions that improve peoples lives, enhance communities and contribute to the fabric of our society.

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