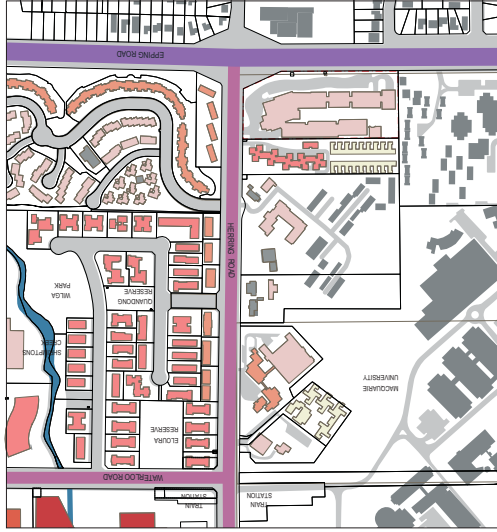


Macquarie Park Corridor DCP

Figure B3.2: Built form - DCP diagram

- Herring Road is designated a Taller Development Spine with 8 storey buildings proposed for future developments.
- The secondary significant building is proposed to be orientated north-south along Herring Road.



Existing Context

Figure B3.1: Built form - existing context diagram

- Buildings along the northern side of Epping Road and the western side of Herring Road do not help to spatially define these roads. Buildings are typically setback from the street and are 1-3 storeys in scale. The orientation of the existing buildings varies. Morling College and Dunmore Lang College are aligned with the Macquarie University grid that is rotated 45 degrees from the street.
- The spatial relationship of buildings to the street does not contribute to the identity or legibility of Macquarie Park Corridor.

- A built form strategy in the Macquarie Park Corridor DCP seeks to enhance the urban hierarchy of Epping Road through the location of taller buildings at key intersections. These taller buildings act as landmarks signifying the entry to the Macquarie Park Corridor.
- The Concept Plan site located at the corner of Epping Road and Herring Road is one of the key sites identified to accommodate a taller building.
- The section below (Figure B3.3) shows the future character of taller buildings marking key intersections along Epping Road.
- The Concept Plan locates the taller building along Epping Road orientated east-west. This location and orientation reduces the visual impact of the taller building.

Built Form Structure along Epping Road

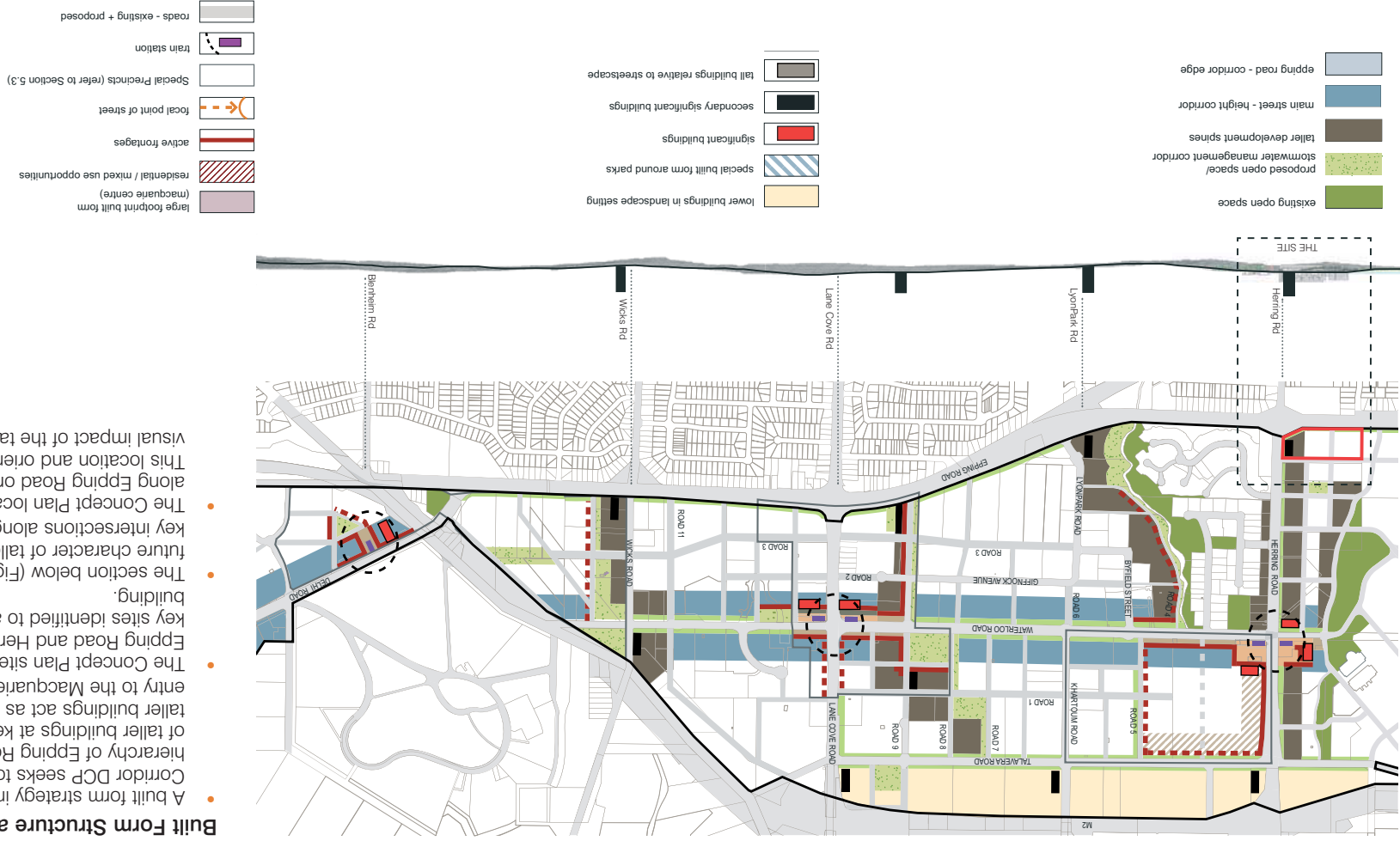


Figure B3.3: Built form structure and section along Epping Road

- Built Form Structure along Herring Road**
- The Macquarie Park DCP height plane of 8 storeys is shown in red.
 - 128 Herring Road development proposal (shown in green) is seeking approval for 12-15 storey buildings. Macquarie University (shown in blue) Concept Plans are permitted a building height of 108m. Both developments are exceeding the 8 storey height proposed in the Macquarie Park DCP.
 - It is envisaged that the land owned by Housing NSW opposite The Site will also redevelop in the future. In the diagram below, the Concept Plan site is outlined in yellow and shows how the proposed building heights are compatible with the future context of Herring Road.



Figure B3.4: Built form structure along Herring Road

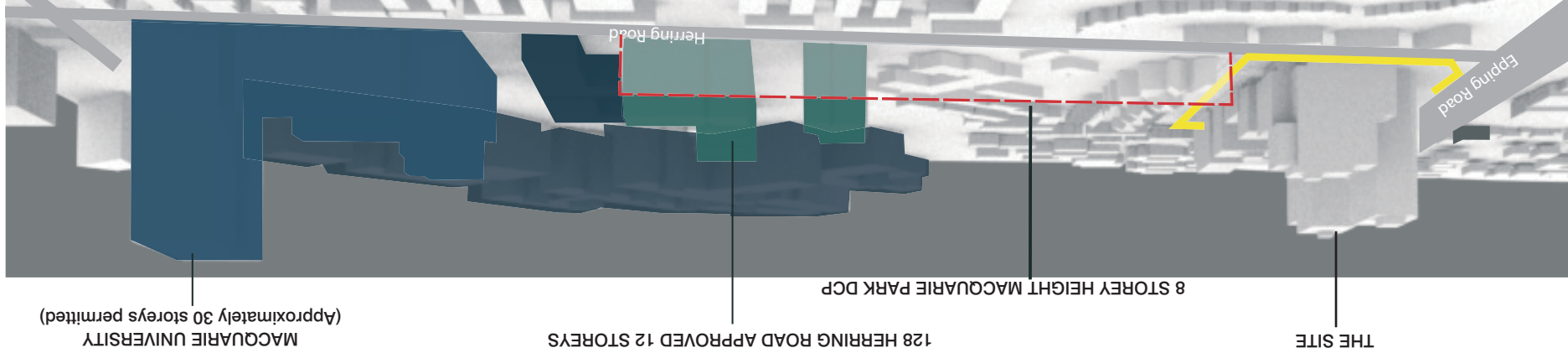


Figure B3.5: Future height context along Herring Road

MACQUARIE UNIVERSITY CONCEPT PLAN

APPROVED LIPMAN CONCEPT PLAN

8 STOREY HEIGHT MACQUARIE PARK DCP

POSSIBLE HEIGHT UNDER DRAFT RYDE LEP
2008 AMENDMENT 1

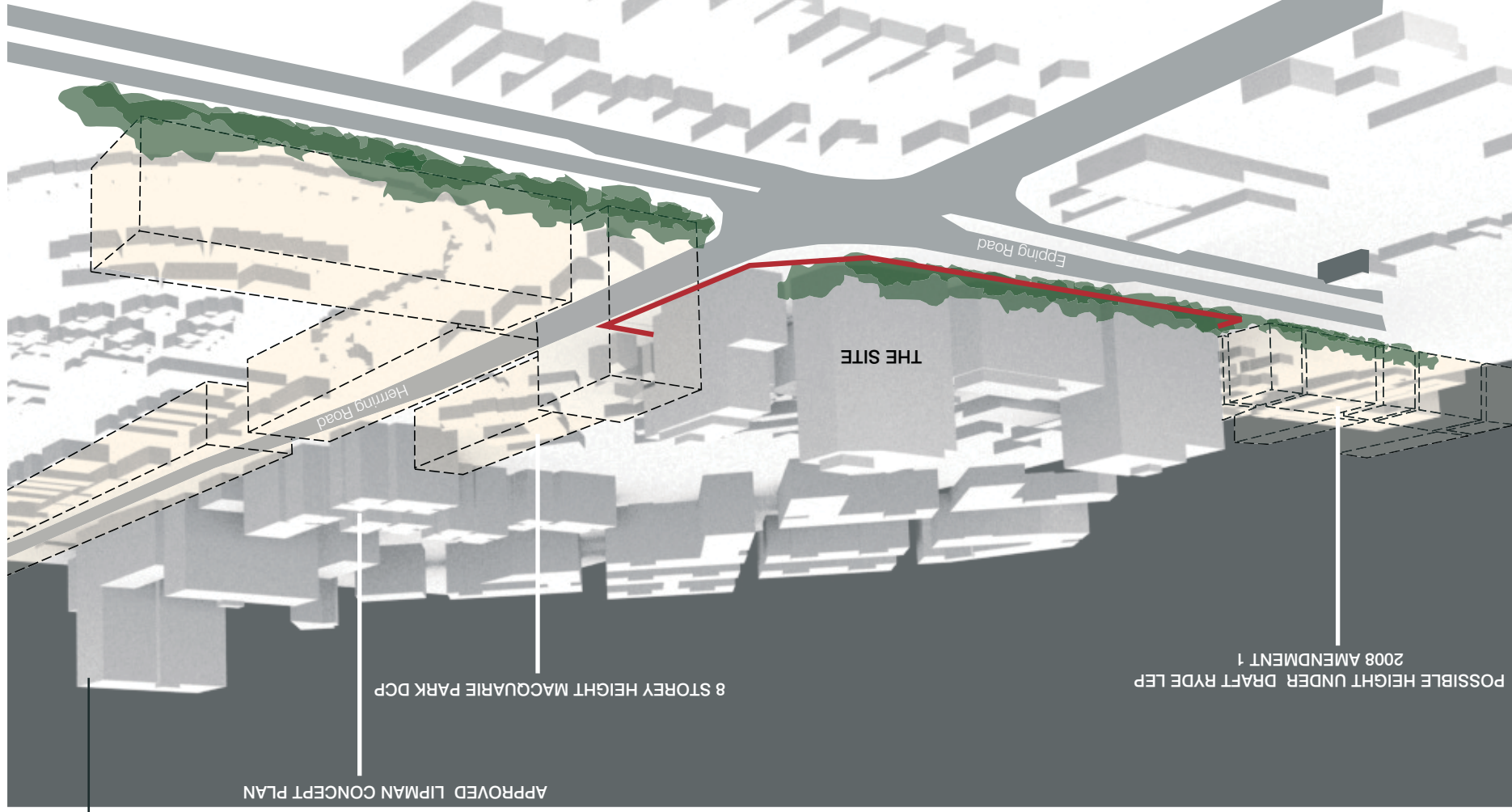


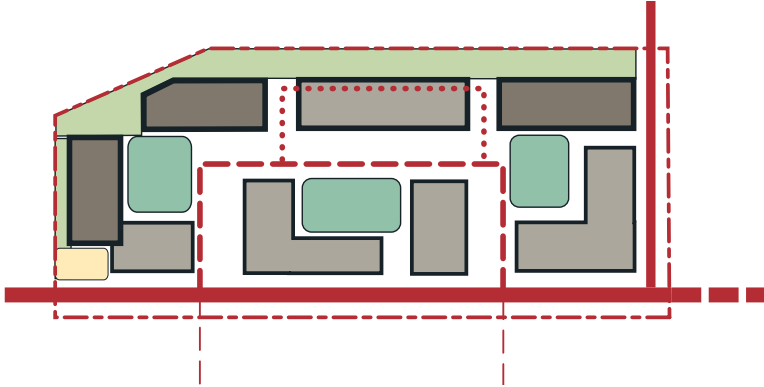
Figure B3.6: Future height context surrounding the site



Landmark

- Orientate the landmark building east-west along Epping Road to create a slender landmark building on approach from Epping Road.
- Modulate building heights to reduce the overall mass and bulk of the development along Epping Road.
- Use facade composition to articulate the building forms providing visual interest.

Figure B3.7: View approach from Epping Road west

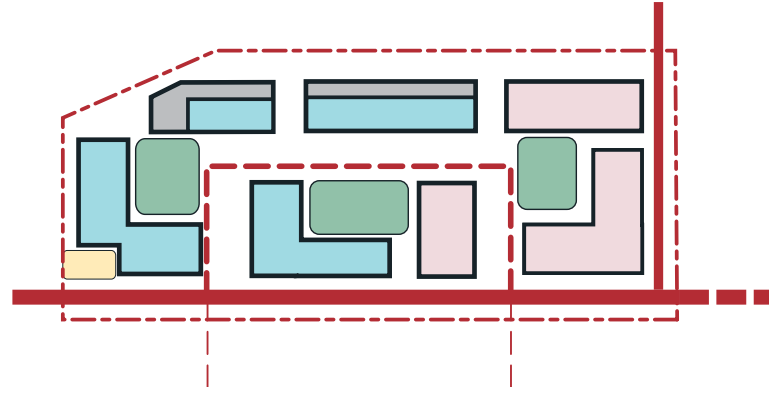


Built Form Strategy

- Locate lower buildings in the northern part of the site to optimise solar access to open space and taller buildings to the south.
- Modulate building heights to reduce the appearance of a wall of buildings.
- Shape the profile of the buildings this will form a skyline and increase visual access to the sky creating a perception of space.

Figure B3.8: Built form strategy diagram

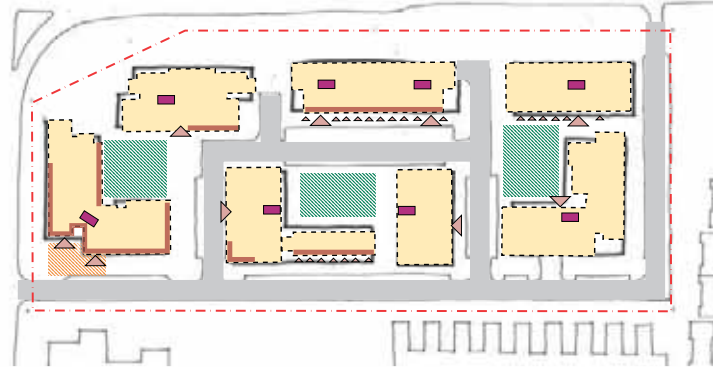
Uses + Mix of Apartments-



- Contribute to the mix use zoning by providing:
 - Convenience store
 - Soho's
 - Residential
- Locate commercial and retail uses along Herring Road and the new local road to activate streets.
- Ensure a housing choice by providing a mix of apartments:
 - 50% - 1B maximum
 - 40% - 2B minimum
 - 10% - 3B minimum

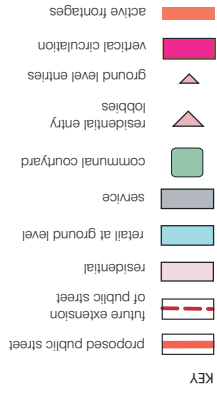
Figure B3.9: Uses and mix of apartments

Address + Frontage

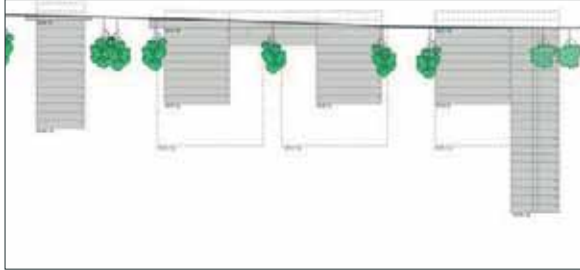
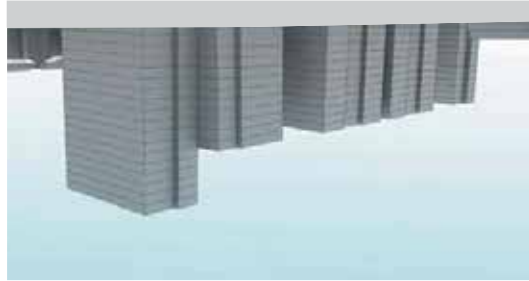
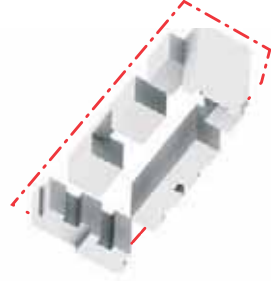


- Activate streets with ground level entry lobbies, retail and commercial uses.
- Ensure all buildings have a street address.
- Provide individual entries to ground level SoHo's.

Figure B3.10: Address and frontage

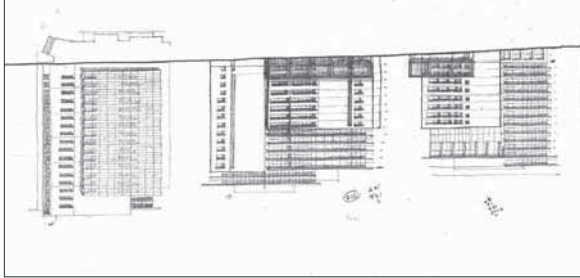
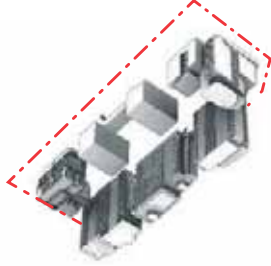


Form + Mass: Building heights along Epping Road 'stepping down' away from the landmark building.



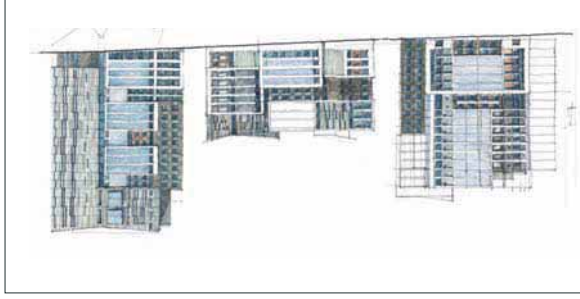
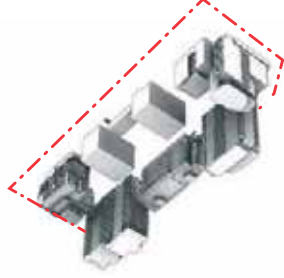
- Pros**
- Tallest building is the landmark building of 21 storeys.
 - Building height step down to adjacent site to the west.
 - 21 storeys was considered unacceptable by City of Ryde.
- Cons**

Form + Mass: Taller buildings to the south, lower buildings to the north



- Pros**
- Optimised solar access to open space and apartments
 - Appearance of a 'wall' of buildings along Epping Road.
- Cons**

Form + Mass: Modulated skyline



- Pros**
- Better solar access and cross ventilation to apartments
 - Reduced bulk and mass of buildings along Epping Road
 - Taller building located adjacent to neighbouring site to the west.
- Cons**

Figure B3.13: Design process

Locating the taller buildings on Epping Road achieves several outcomes:

- It reinforces the strong edge condition of Epping Road as the southern edge of Macquarie Park Corridor
- It protects sun access to sites south of the development
- It allows the lower buildings on the proposed public road to visually mitigate the scale of the Epping Road buildings.

The aesthetics of the development derive from the desire to 'deformalise' the usual rigid and repetitive arrangement in multi-residential development. That is the same apartment type or plan is stacked one above the other to maximise efficiencies in the services and structure. This however can create a repetitive vertical 'zipper' like effect in the facade. To counter this, and to 'individualise' each of the buildings a series of frames and valences are utilised to create buildings within buildings. Further, these elements deflect at slight angles from the orthogonal base building to shift the visual geometry from the formal and rigid to the relaxed and less formal.

To the Epping Road elevation, these frames and valence elements are designed to work as a counter to the building mass. The upper parts of the buildings have been further 'eroded' by the use of panelised or modular facade element, these appear lighter, less weighty because of their texture, broken colour palette and modular construction. Further in some cases these elements are curvilinear to form a strong contrast to the orthogonal base building and enhance the informal geometry of the facades. Colours for the buildings will be drawn from a eucalypt/bushland palette appropriate for the location.



Figure B3.14: Facade development - Epping Road

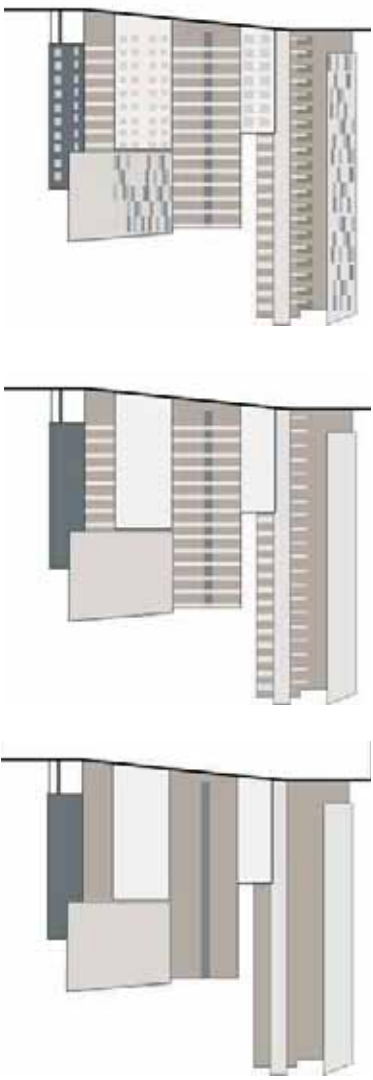


Figure B3.15: Facade development - Herring Road



Figure B3.16: Precedents for facade treatments

CONTROLS B4

Built Form Controls

Development Footprint + Deep Soil Area

Objectives

- To retain existing mature trees along Epping Road.
- To contribute to stormwater management and reduce runoff.
- To provide deep soil zones consistent with Macquarie Park Corridor DCP.

Controls

Deep soil areas are to:

- Have minimum dimension of 10m.
- Be a minimum of 25% of the landscape area.
- Be free of any above or below ground structures.

For detailed areas refer to Appendix 2.

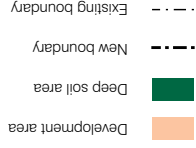
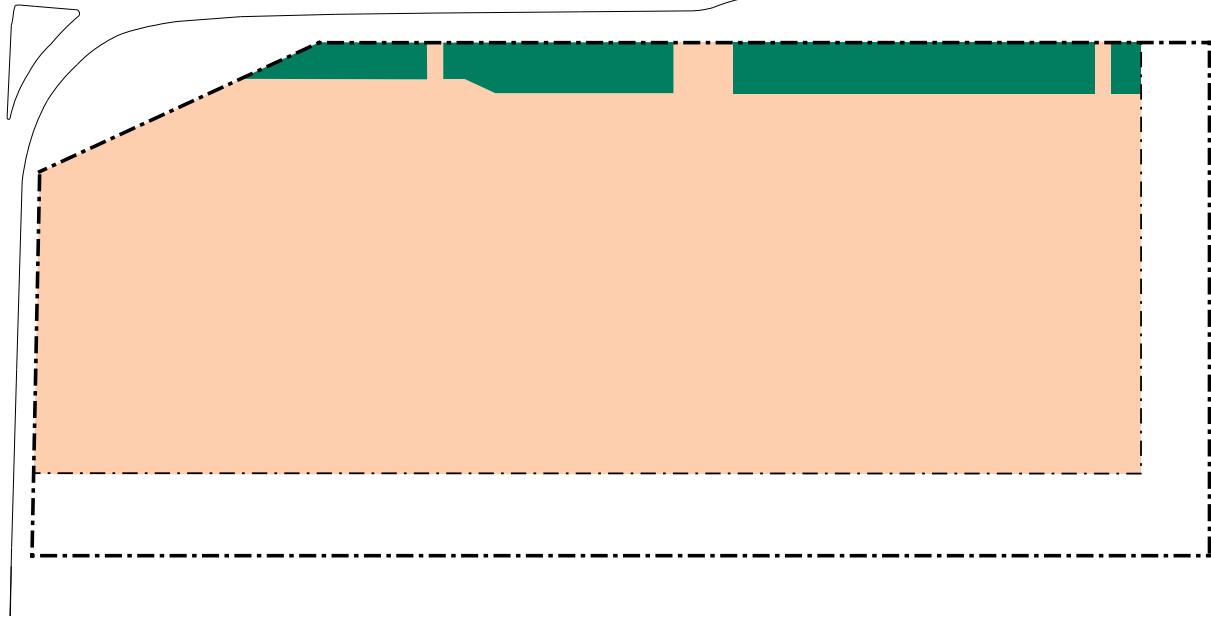
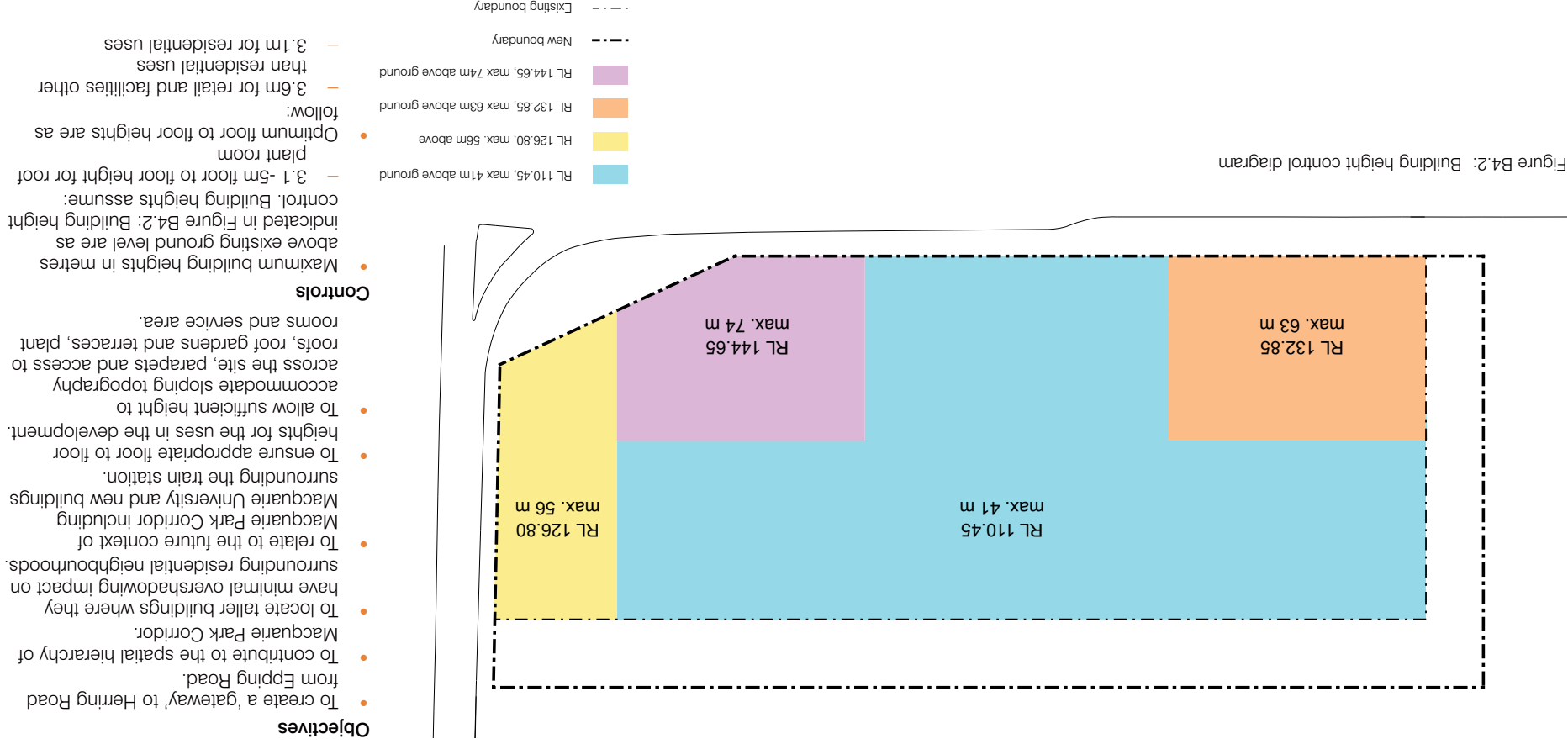


Figure B4.1: Development footprint and deep soil area diagram



B4 CONTROLS

Built Form Controls Building Height



CONTROLS B4

Built Form Controls
Building Height

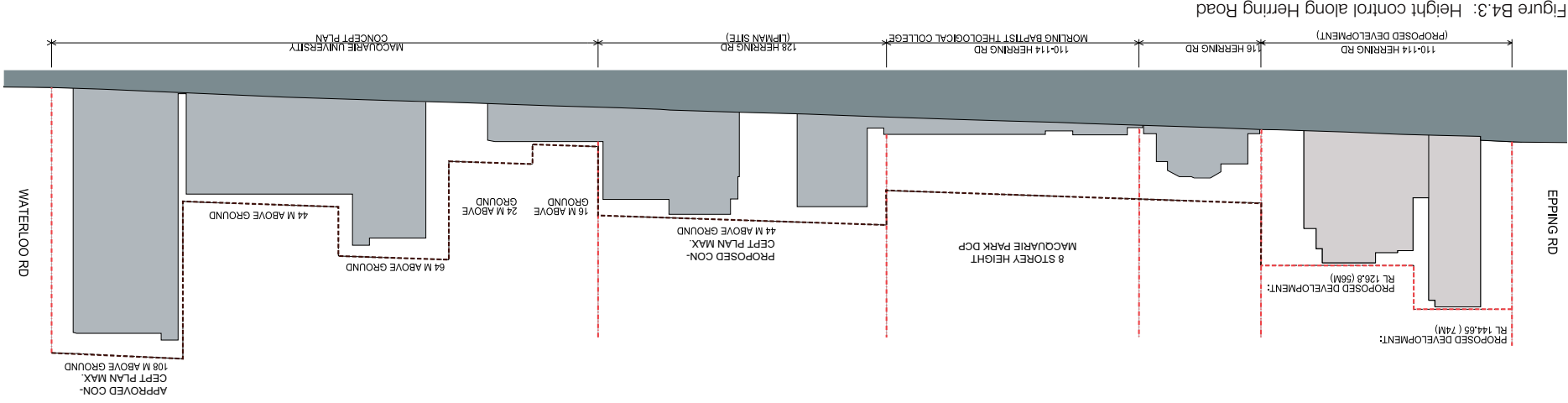


Figure B4.3: Height control along Herring Road

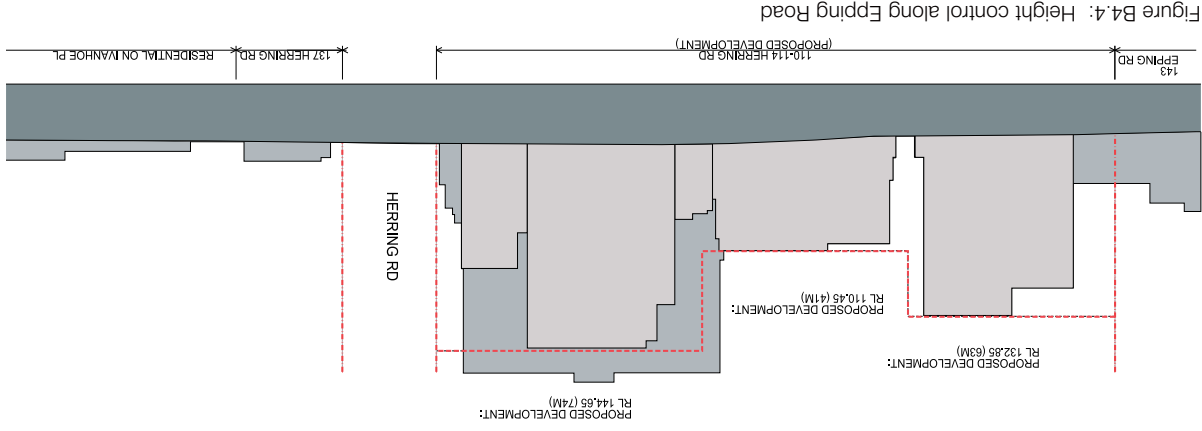
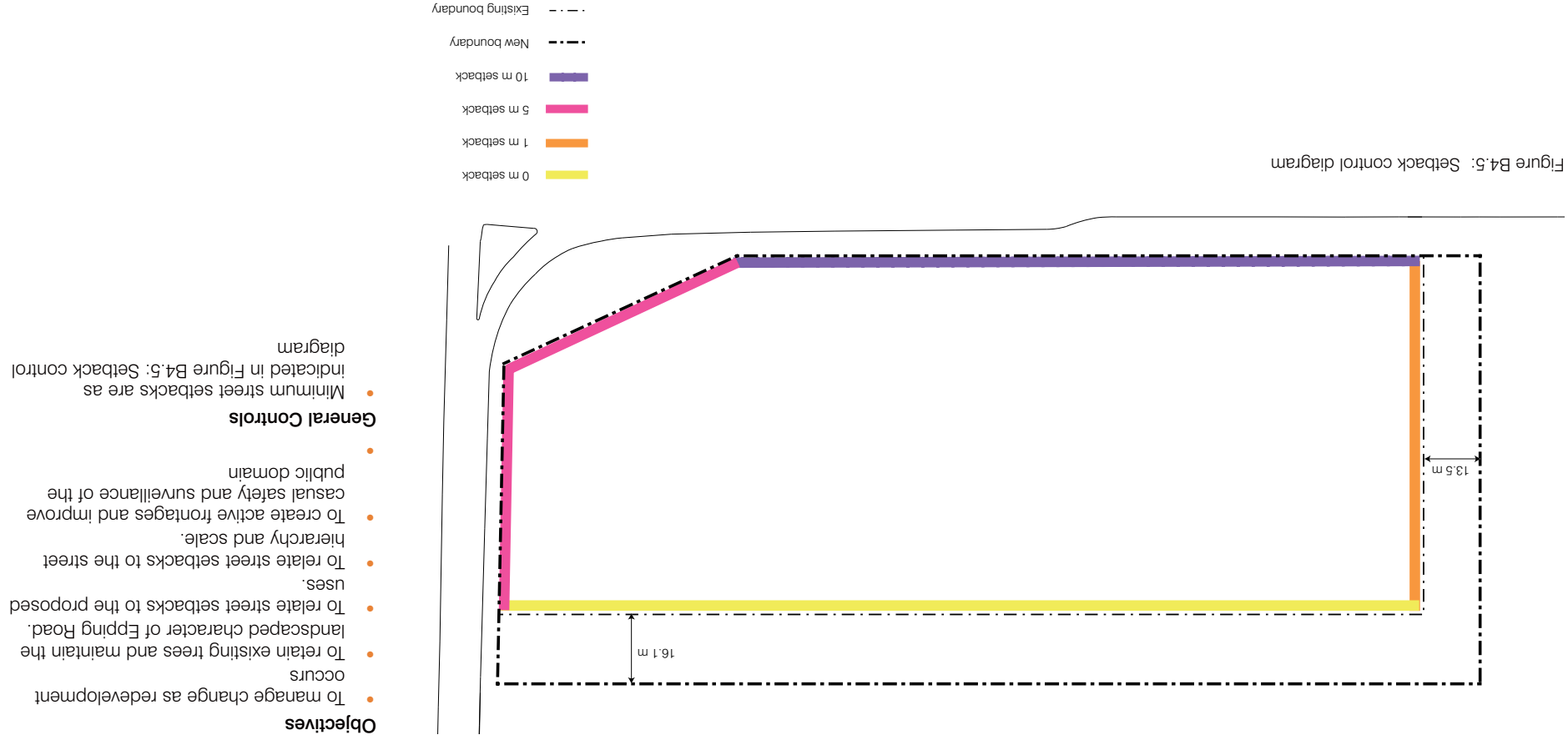


Figure B4.4: Height control along Epping Road

Built Form Controls
Building Setback



CONTROLS B4

Built Form Controls

Building Separation

Objectives

- To ensure high quality residential amenity within the development.
- To optimise solar access to apartments and communal open space.
- To create views to the sky from the communal and public domain.
- To enhance the spatial legibility of the development

Controls

- Minimum building separations are as shown in Figure B4.6 Building separation diagram
- Sunlight access, visual and acoustic privacy will be achieved through the use of privacy screens, orientation and location of openings and architectural solutions where building separations depart from the recommended separations between buildings in the Residential Flat Design Code.

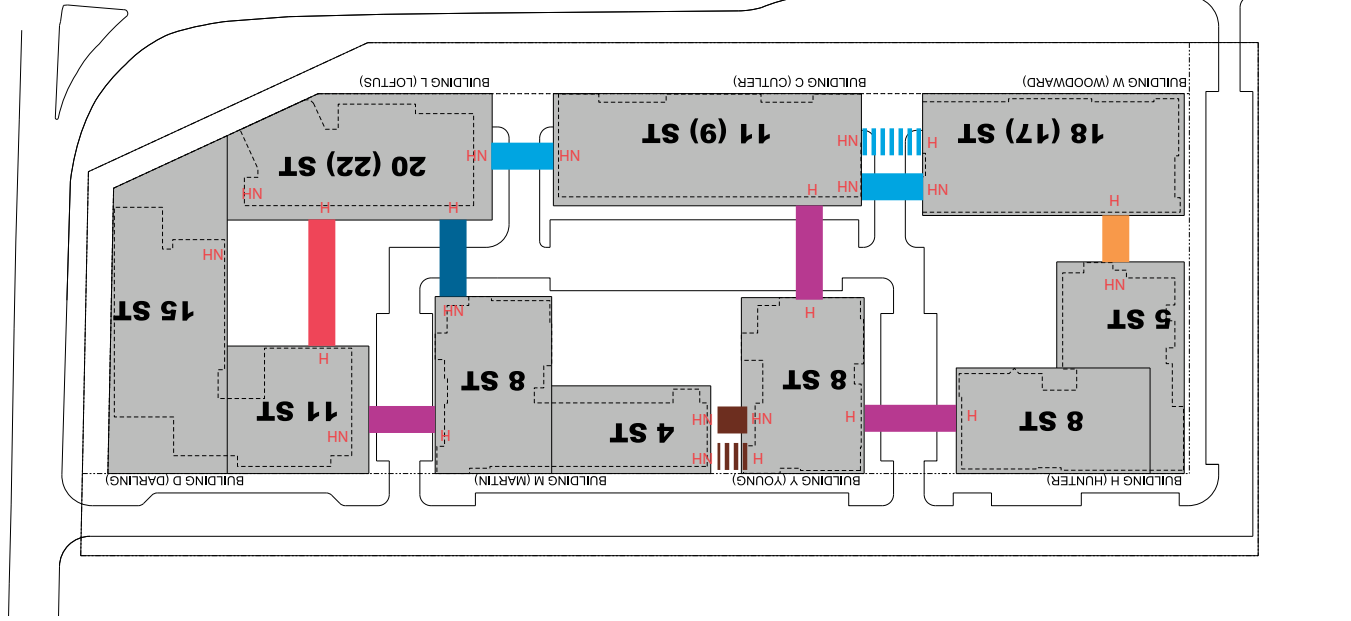


Figure B4.6: Building separation diagram

The following complies with recommended RFDG:

min. 6 m bldg separation complies habitable to non-habitable	min. 24 m bldg separation complies habitable to habitable
min. 9 m bldg separation complies habitable to habitable	min. 18 m bldg separation complies habitable to habitable
min. 12 m bldg separation complies non-habitable to nonhabitable	min. 13 m bldg separation complies habitable to non-habitable
min. 13 m bldg separation complies non-habitable to nonhabitable	min. 18 m bldg separation complies habitable to non-habitable
min. 18 m bldg separation complies habitable to non-habitable	min. 24 m bldg separation complies habitable to habitable
min. 24 m bldg separation complies habitable to habitable	

Less than recommended in RFDG, but will demonstrate daylight access, urban form, visual and acoustic privacy has been satisfactorily achieved:

less than 9m bldg separation for habitable to non-habitable	habitable / non-habitable area
(1-8ST) less than 13m bldg separation for habitable to non-habitable	indicative line of external wall
(1-8ST) less than 18m bldg separation for habitable to non-habitable	building envelope

- Stage 1 includes the following:
- Publicly dedicated road and internal roads and associated landscape and Water Sensitive Urban Design measures.
- Communal open space and swimming pool.
- 310 apartments in four residential buildings: Buildings W, H, Y and C.
- Parking:
 - Residents parking for 669 cars
 - Visitor parking for 105 cars
 - Retail parking for 8 cars

STAGE 1	
Development Summary	
1 BR	: 161 units
2 BR	: 119 units
3 BR	: 30 units
310 units	
Proposed Parking Provided in Stage 1	
On-street parking	: 67 carparks
Basement 1	: 262 carparks
Basement 2	: 312 carparks
Basement 3	: 141 carparks
782 carparks	

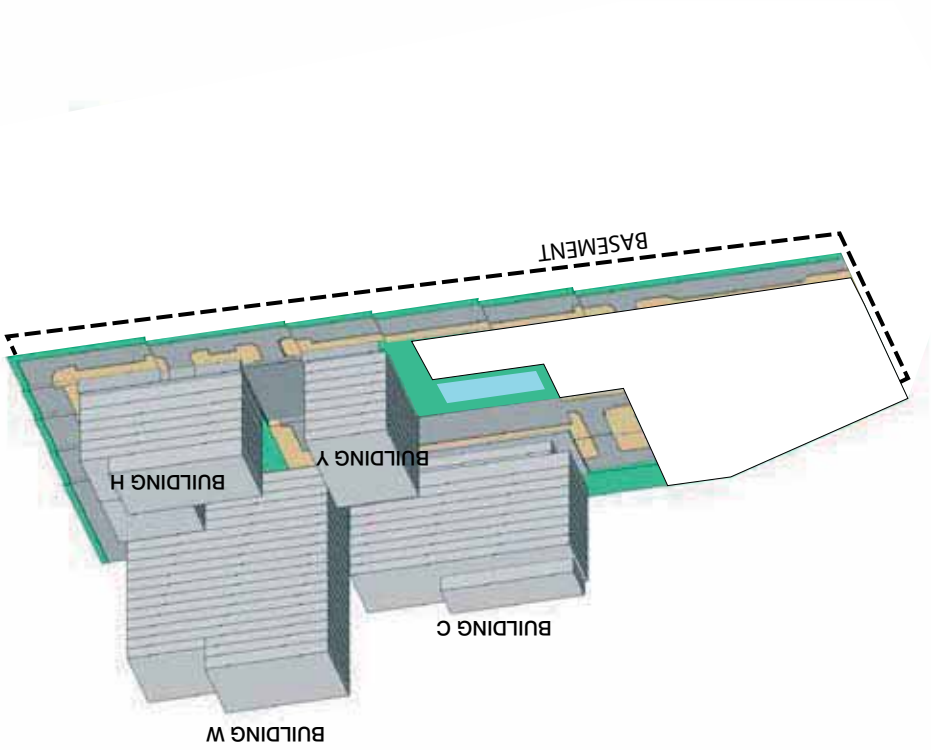


Figure B5.1: Stage 1

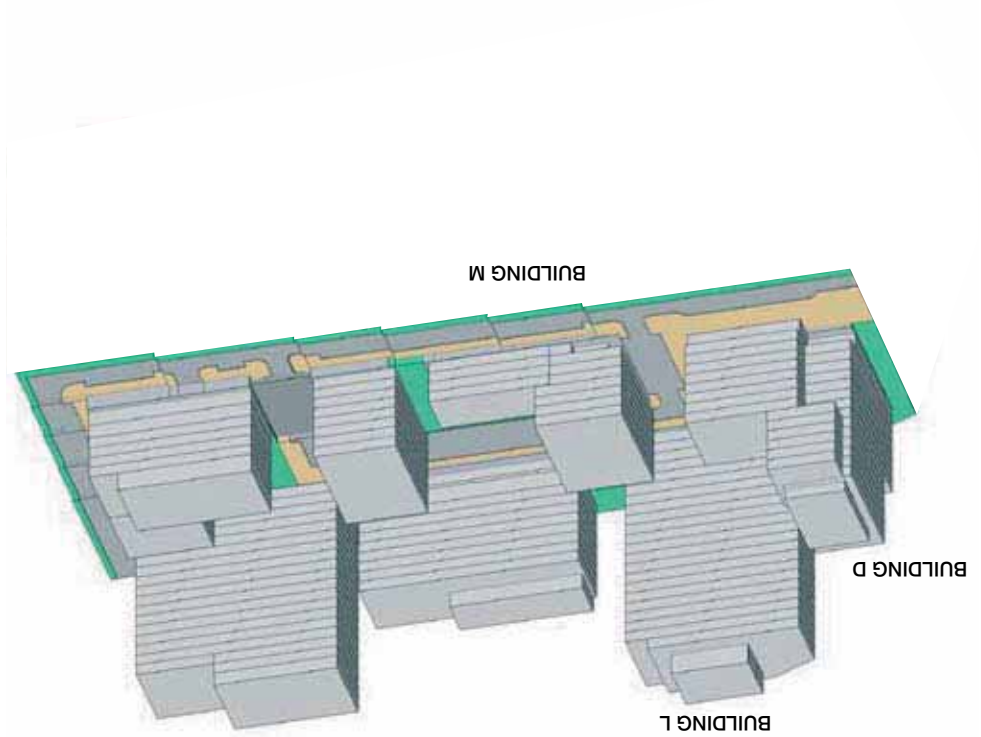


Figure B5.2: Stage 2

- Stage 2 includes the following:
- Communal open space
 - 316 apartments in three residential and mixed use buildings: Buildings L, M and D
 - 752 m² of commercial/retail space
 - Parking:
 - Retail parking for 8 cars

STAGE 2

Development Summary

1 BR	: 181 units
2 BR	: 122 units
3 BR	: 13 units
<hr/>	
316 units	

Proposed Parking Provided in Stage 2

On-street parking : 8 carparks
all basement car parking will be provided in stage 1

Total proposed parking provided for Stage 1 & Stage 2

Total Proposed Carparking	
782 (stage 1) + 8 (stage 2)	: 790 carparks

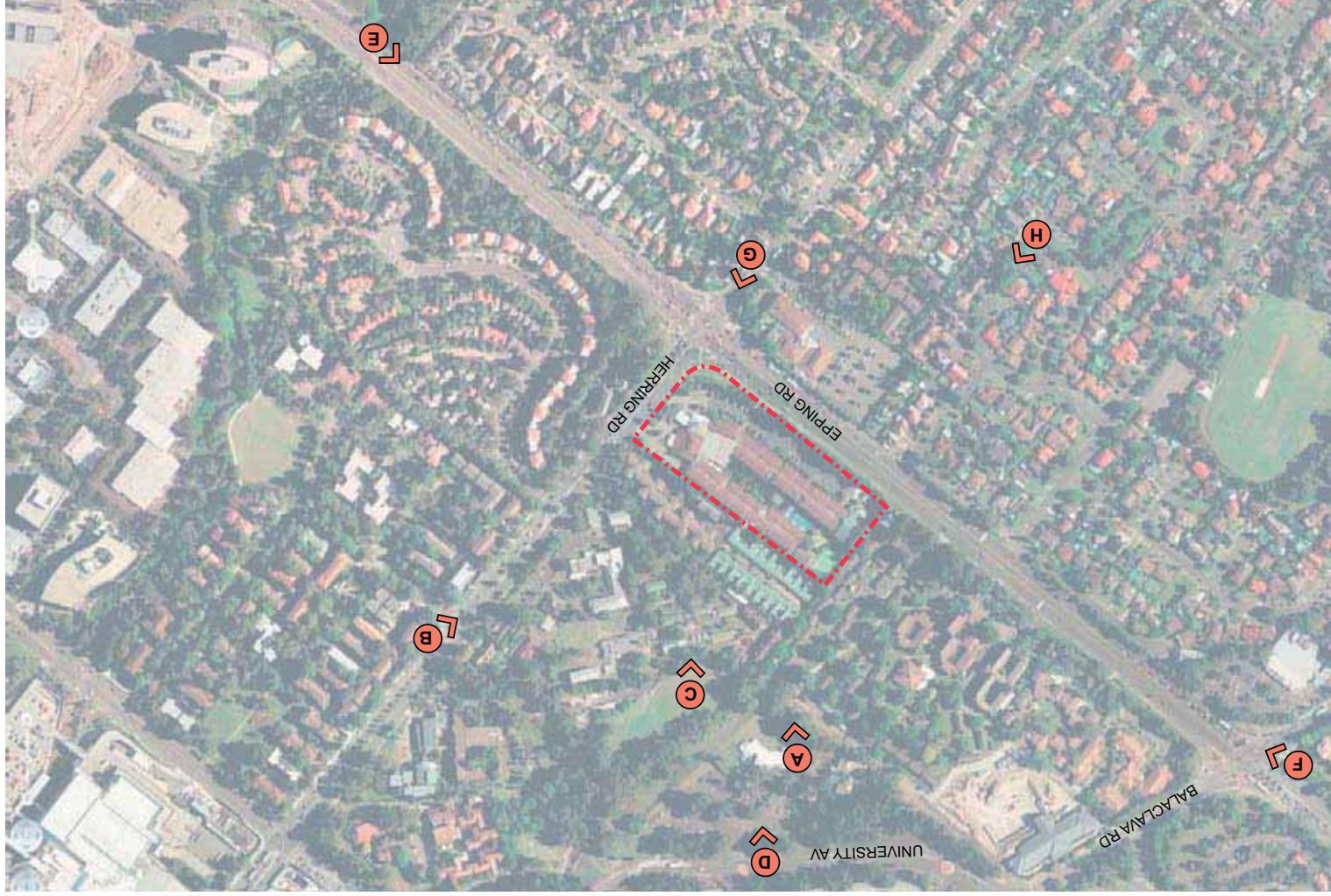


Figure B6.1: Key Views



Figure B6.3: Key View B - View from Herring Road



Figure B6.2: Key View A - View from Macquarie University



Figure B6.5: Key View D - View from University Avenue, Macquarie University



Figure B6.4: Key View C - View from Macquarie University sports ground



Figure B6.6: Key View E - View from Epping Road



Figure B6.7: Key View F - View from corner of Epping Road and Balaclava Road



Figure B6.8: Key View G - View from Herring Road South

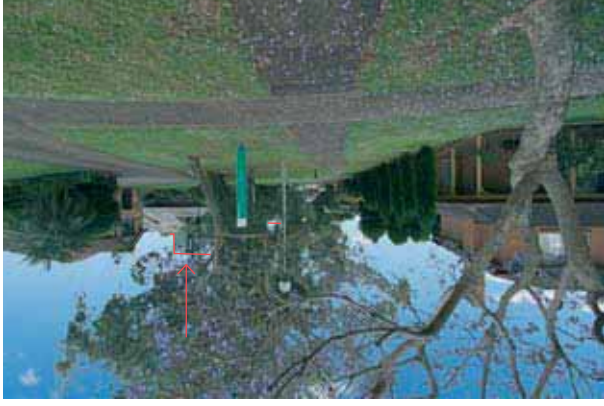


Figure B6.9: Key View H - View from Liberty Park