

---

**ATTACHMENT 1**  
**DESIGN REPORT –**  
**BATES SMART**

# MANDARIN CENTRE CHATSWOOD

---

CONCEPT DESIGN REPORT

18 APRIL 2018

---



---

**CLIENT**

Blue Papaya Pty Ltd

Mandarin Developments Pty Ltd

**PROJECT NUMBER**

S11596

---

**BATESSMART™****ARCHITECTURE  
INTERIOR DESIGN  
URBAN DESIGN  
STRATEGY****MELBOURNE**

1 Nicholson Street Melbourne

Victoria 3000 Australia

T +61 3 8664 6200

F +61 3 8664 6300

**SYDNEY**

243 Liverpool Street

East Sydney New South Wales

2010 Australia

T +61 2 8354 5100

F +61 2 8354 5199

**[WWW.BATESSMART.COM](http://WWW.BATESSMART.COM)**

---

**DISCLAIMER**

The Scheme (drawings documents information and materials) contained within this brochure have been prepared by Bates Smart Pty Ltd Architects solely for the purpose of providing information about potential schemes.

The materials should not be considered to be error free or to include all relevant information.

Nothing in this brochure in any way constitutes advice or a representation by Bates Smart nor does the transmission or sending of these materials create any contractual relationship.

Neither Bates Smart nor any of its officers, employees, agents or contractors, will be liable for any direct or indirect loss or damage you may suffer or incur arising directly or indirectly from the use of any materials from this brochure.

Bates Smart retains copyright and all present and future moral rights in all intellectual property in all the materials authored by it and in any works executed from these drawings and documents.

---

# 1.0 INTRODUCTION

This report describes a concept design prepared for the site at 65 Albert Avenue, Chatswood, known as the Mandarin Centre.

The concept design forms part of a Planning Proposal for submission to the Department of Planning and Environment, and describes the proposed built form envelope, floor space area, and uses envisaged for the site.

This concept design follows several earlier proposals for the site, which are summarised briefly in Appendix 2.0.

The concept design may be summarised as follows:

- / A five-storey podium containing retail and commercial uses
- / A childcare/educational facility at the rooftop level of the podium
- / A commercial tower, with a rooftop RL of 172.15
- / A residential tower, with an inclined rooftop ranging from RL 174.30 to RL 192.90
- / A basement containing a supermarket, loading areas, and six levels of basement car parking



# 2.0 SITE LOCATION & CONTEXT

The Mandarin Centre is located at 65 Albert Avenue, Chatswood. The site is rectangular in shape, with a 73m street frontage to Albert Avenue, and approximately 49m frontage to Victor Street.

Chatswood Station is approximately 100 metres north-west of the site, and Chatswood Oval is approximately 120m to the south.

The site has a public connection at the first floor to an adjacent multi-storey carpark building diagonally opposite on Albert Ave, and with an entrance towards Chatswood Station at the second floor.



Aerial photograph of the site context



# 2.1 CBD SKYLINE

The proposed development is located towards the south-eastern side of the Chatswood CBD. The tower envelopes reflect this position within the existing skyline.

The tower envelopes have been considered with respect to solar access to nearby public spaces, and no overshadowing of Chatswood Oval is proposed.



View from Chatswood Oval with indicative tower locations

# 2.2 EXISTING BUILT FORM

The existing Mandarin Centre building occupies the full extent of the site, and contains primarily retail uses.

The main pedestrian access points are located at:

- / The corner of Albert Avenue and Victor Street
- / The raised pedestrian bridge over Albert Avenue
- / The north-west corner of the site, towards Chatswood Station



Entrance from the corner of Albert Avenue and Victor Street



Eastern approach from Albert Avenue



Northern approach from Victor Street



Western corner entrance from Chatswood station approach

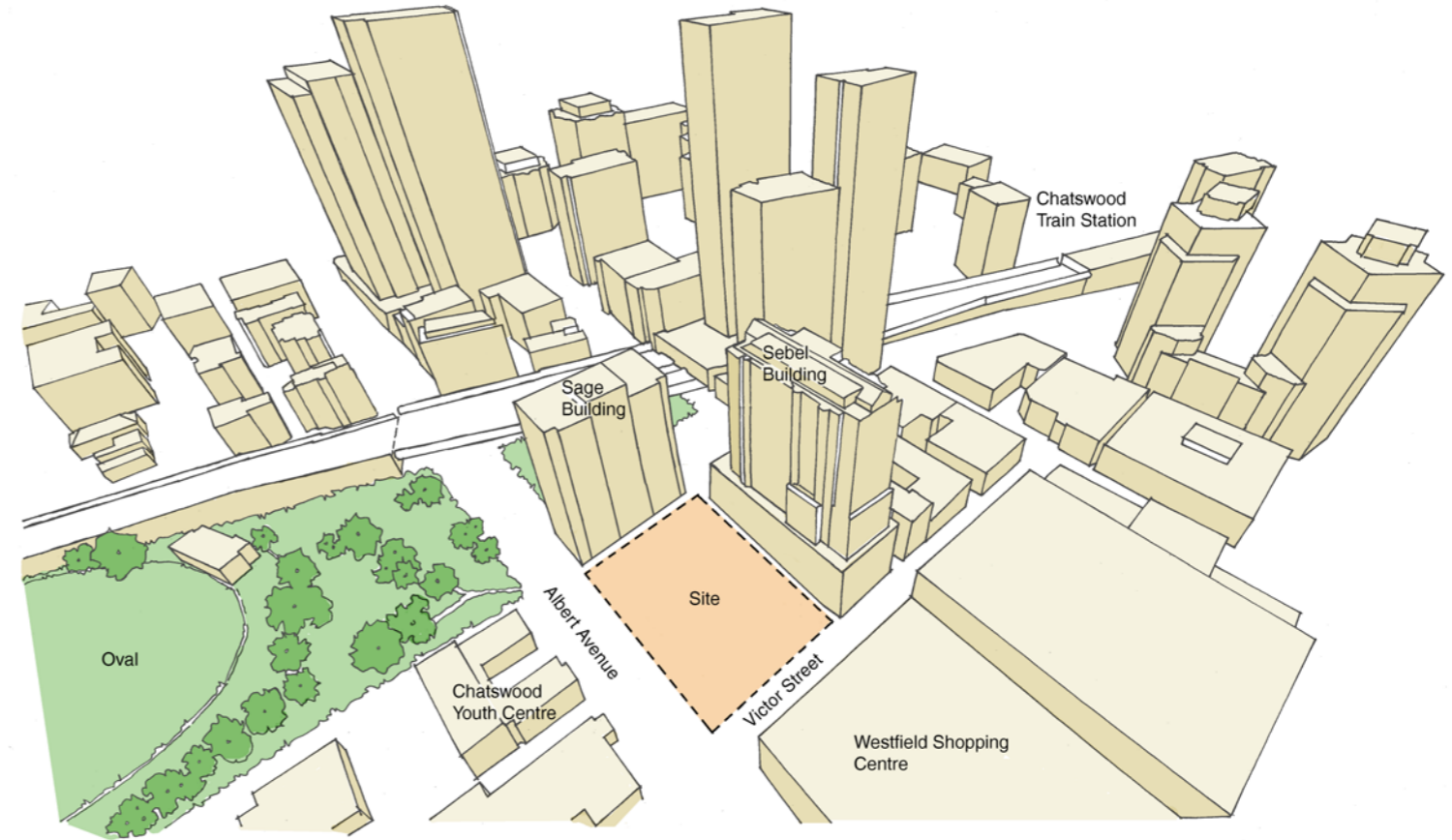


Western approach from Albert Avenue

# 3.0 SITE ANALYSIS

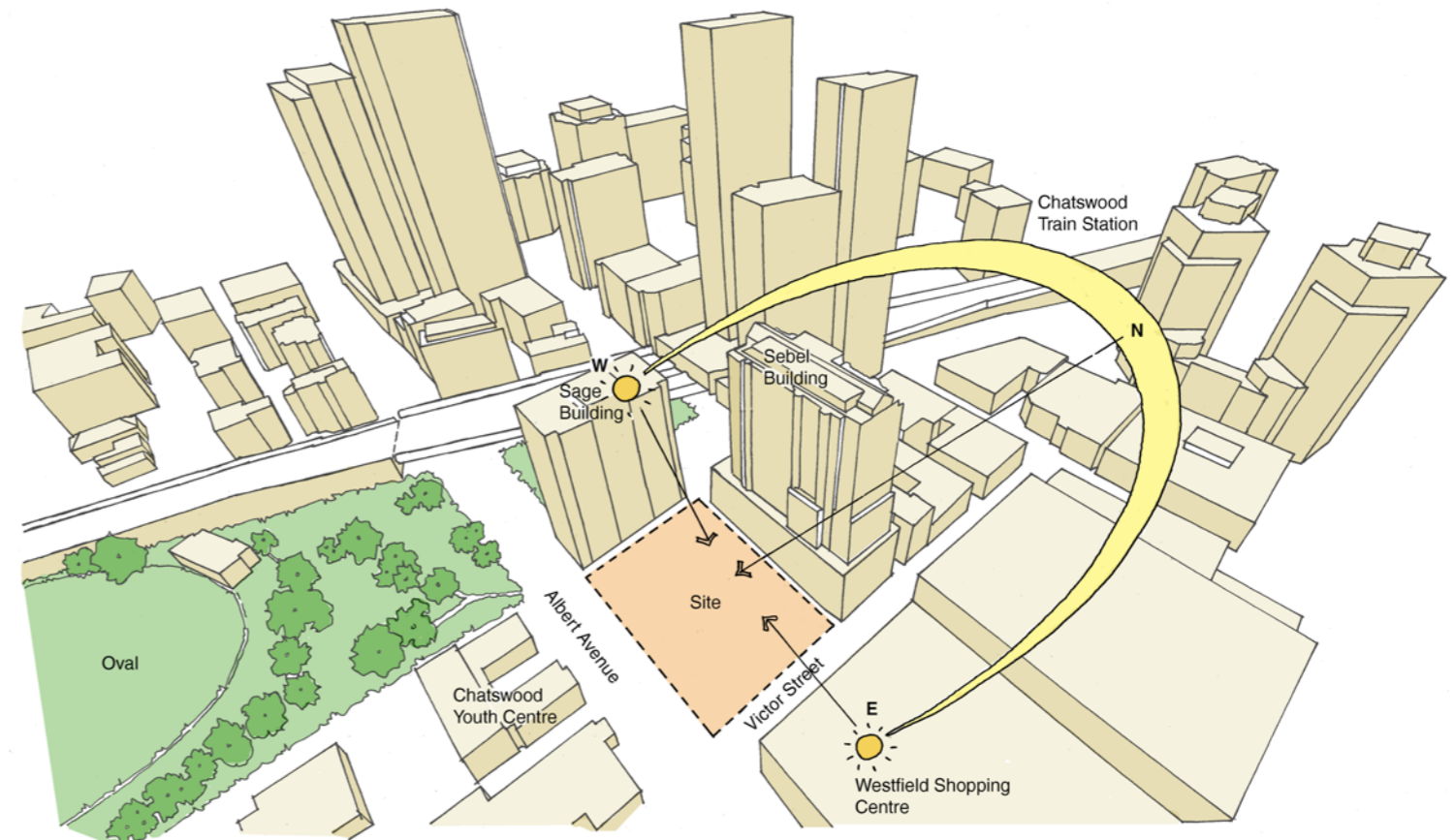
## SITE

The site is generally rectangular in shape with a 73m street frontage to Albert Avenue, and approximately 49m frontage to Victor Street. The "Sebel" building is immediately adjacent to the north of the site, and the "Sage" building is adjacent to the west.



## ORIENTATION AND SOLAR ACCESS

The site receives good solar access from the east and north-east. Solar access from the north-west and west is limited by adjacent buildings.



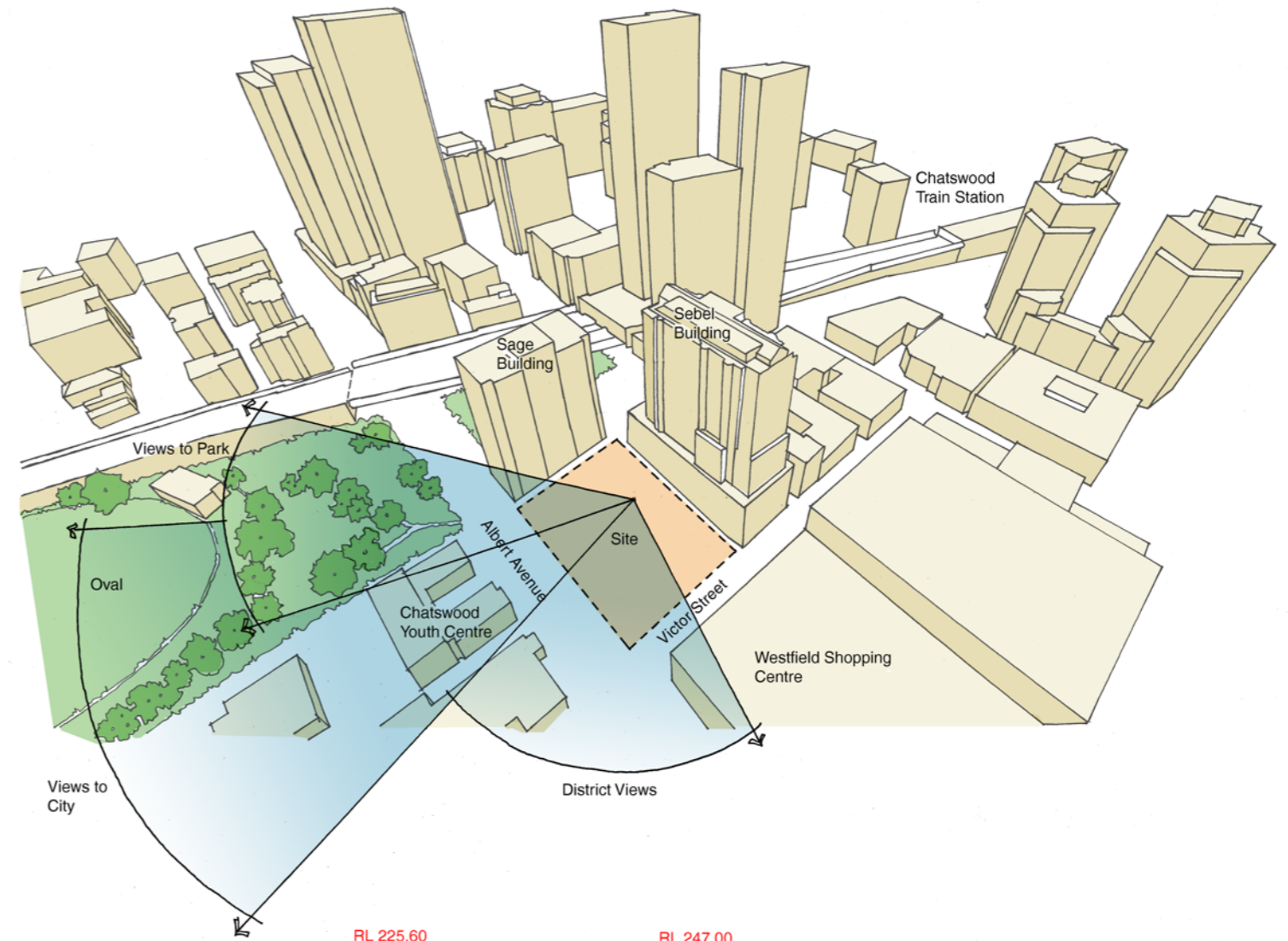


# 3.1 EXISTING SITE ATTRIBUTES

## VIEWS FROM THE SITE

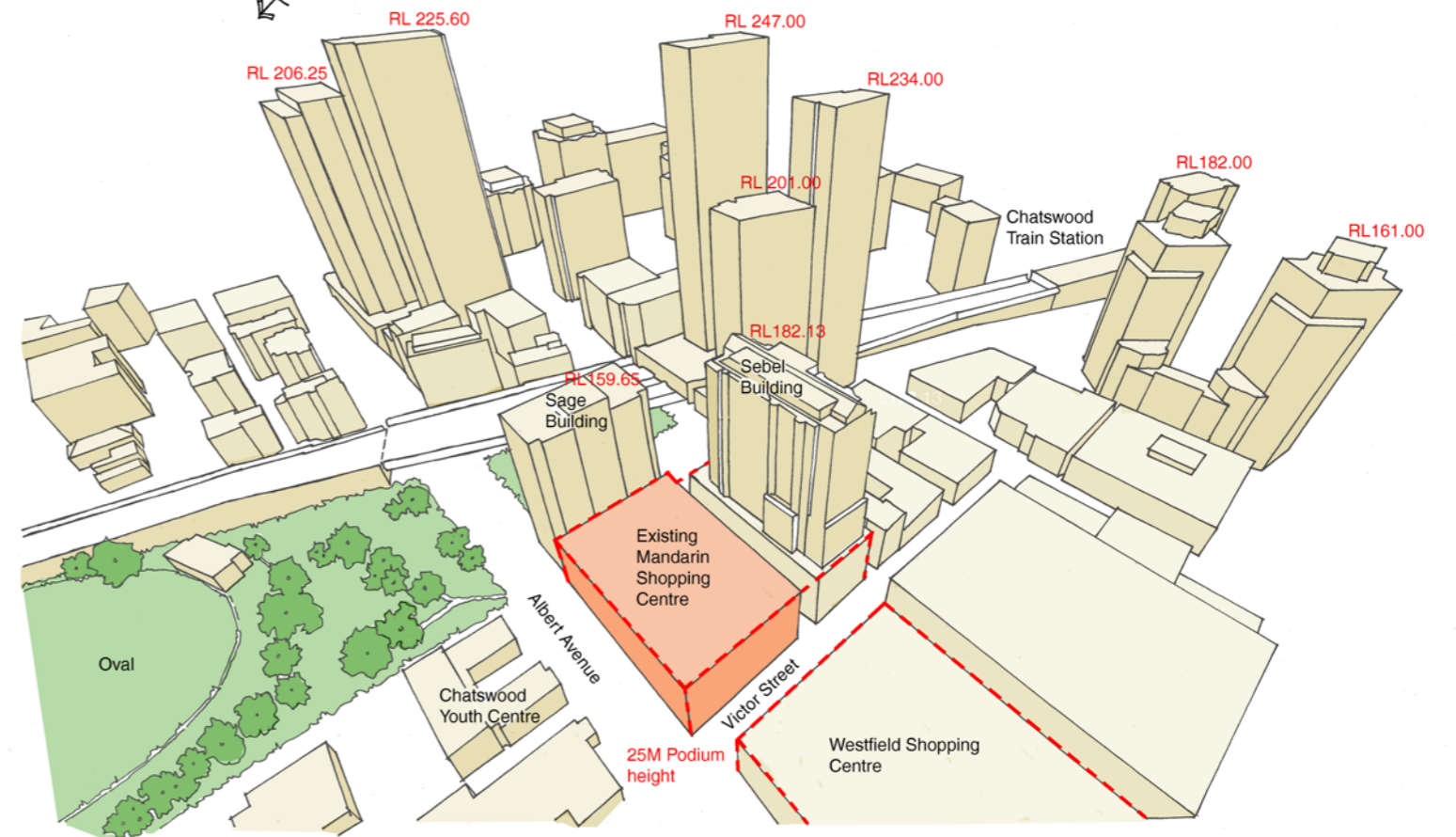
The subject site enjoys excellent views south and east of the site.

The south and south-west orientation enjoys park views and distant city views whilst the east enjoys district views. The proximity of the buildings north and west of the site reduce outlook in this direction.



## EXISTING ENVELOPE

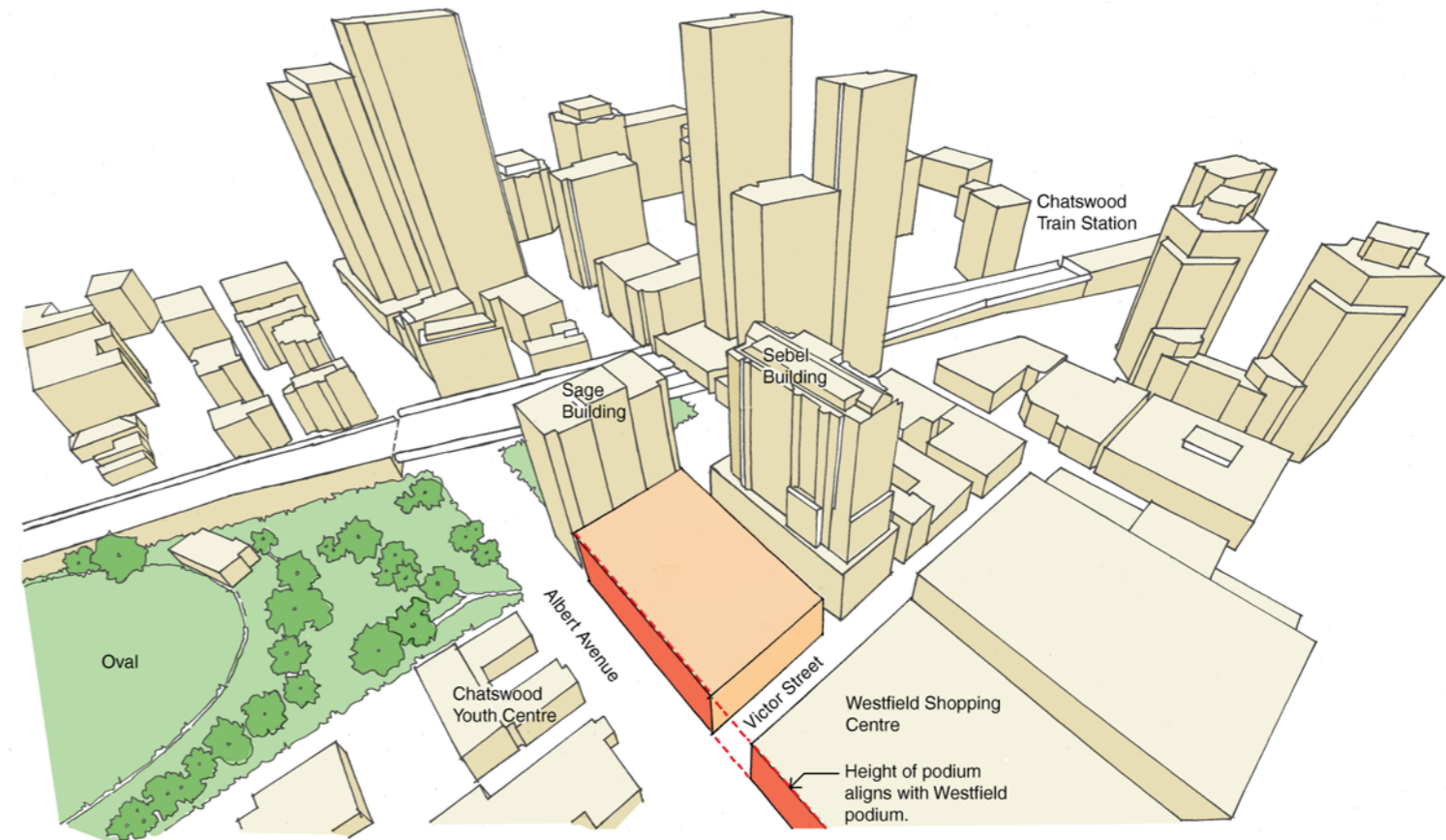
The existing Mandarin Centre building has a five-to-six storey podium with a setback at the top level. The podium height is similar to the existing Westfield shopping centre opposite on Victor Street, and the podium of the adjacent Sebel building.



# 3.2 STREETWALL ALIGNMENTS

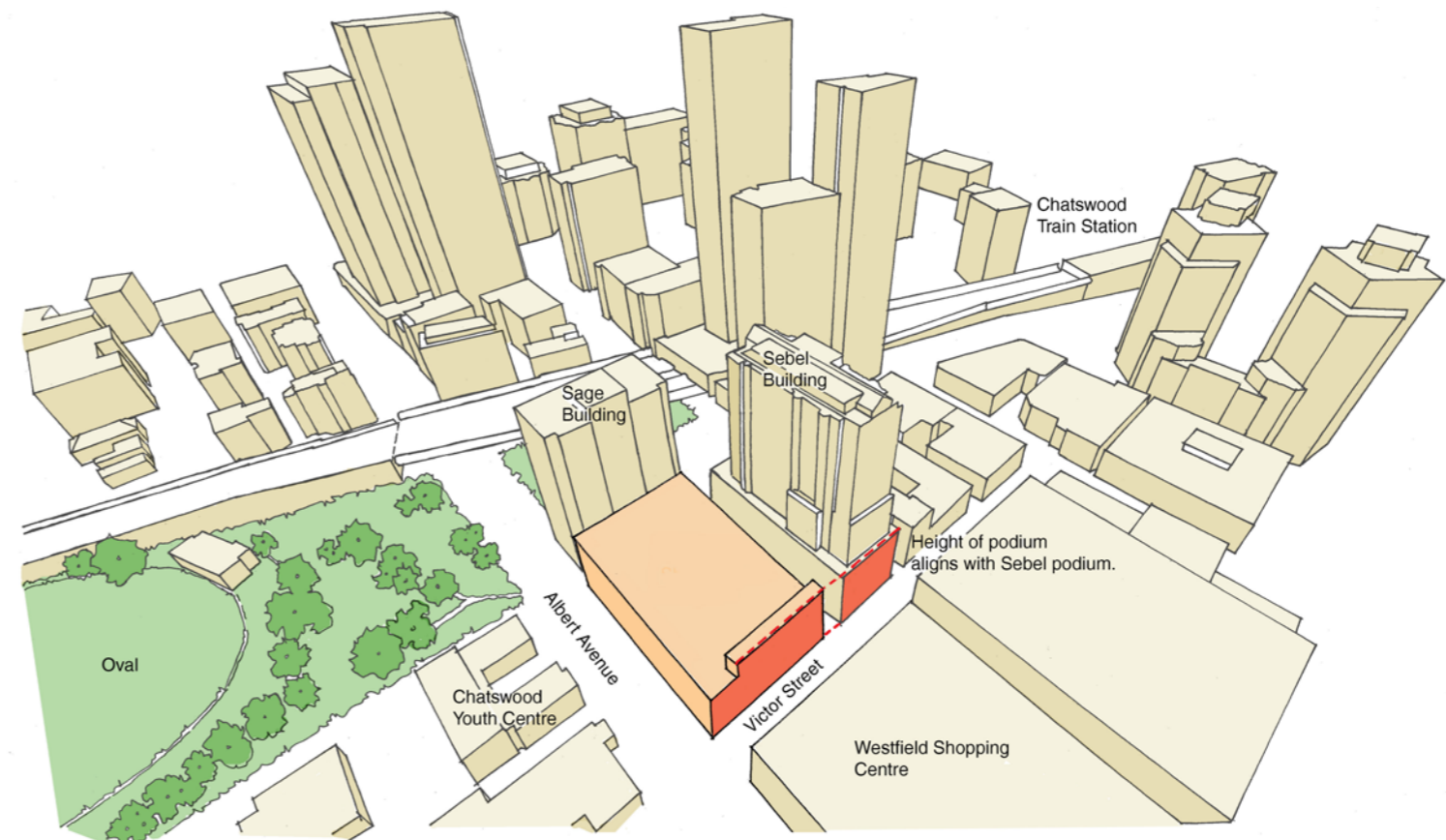
## ALBERT AVENUE PODIUM ALIGNMENT

The height of the podium is proposed to align with the adjacent Westfield podium in order to form a consistent street wall expression along Albert Avenue.



## VISTOR STREET PODIUM ALIGNMENT

On the Victor Street frontage, the height of the podium is increased to form an alignment with the adjacent Sebel building podium.

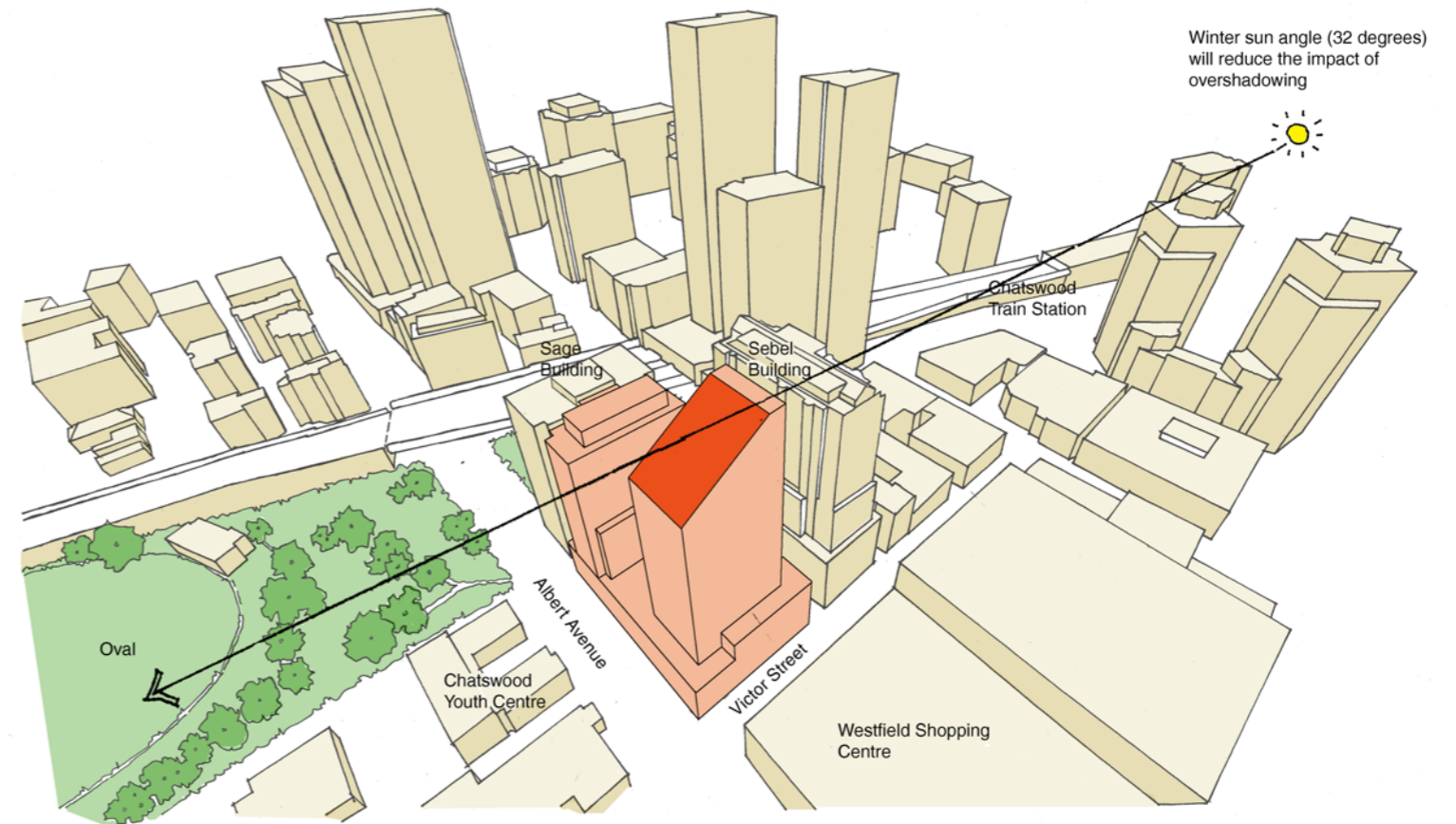


# 3.3 TOWER FORM

## WINTER SUN ANGLE

Solar access to Chatswood Oval is to be maintained at all times of the year. The proposed building envelope has been limited in height to ensure that solar access to the oval is not obstructed at midwinter, when shadows are longest.

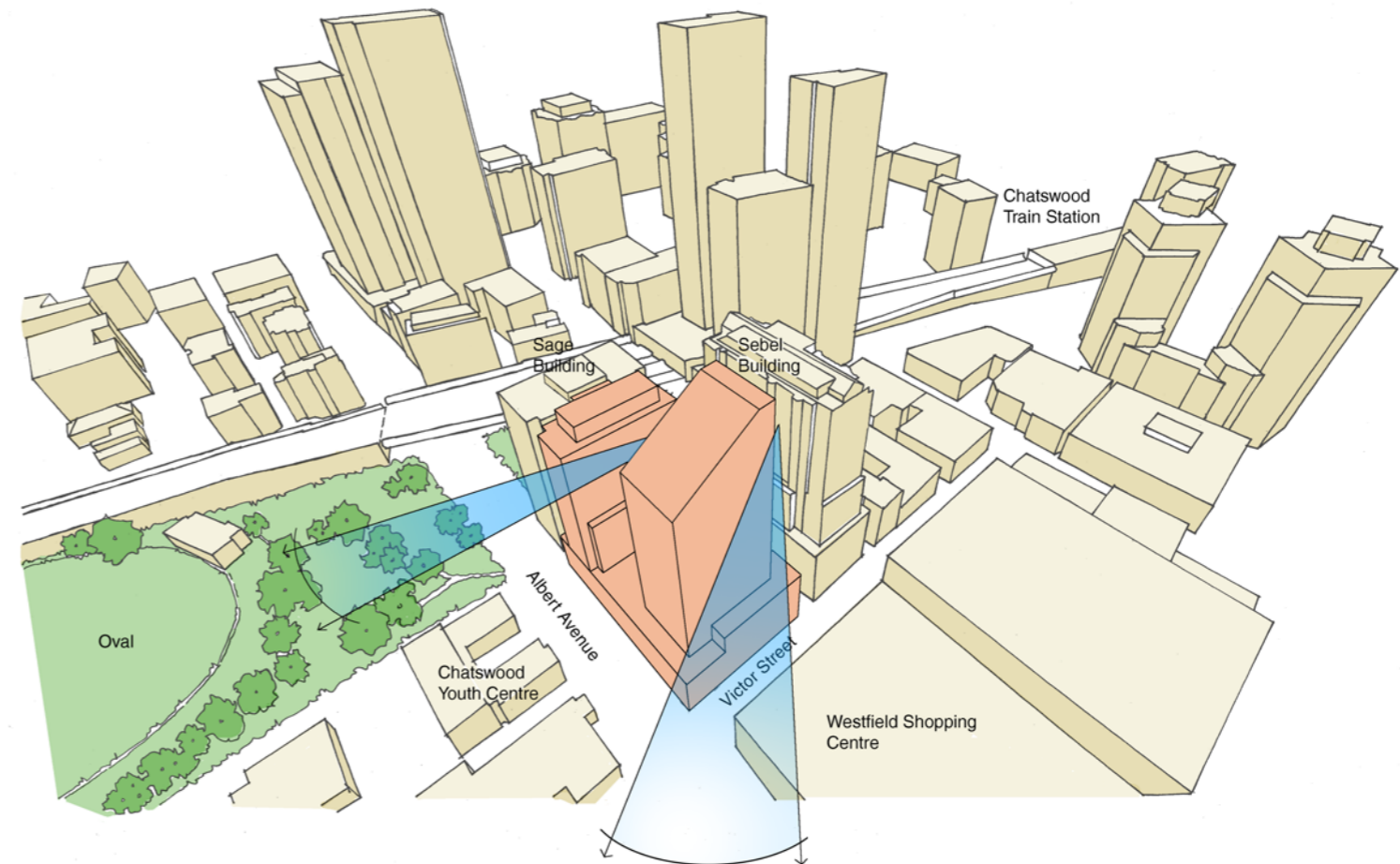
The commercial tower is proposed to have a flat roof, below the plane of shadow affecting the oval. The residential tower is proposed to have an inclined roof form determined by the winter sun angle.



## VIEWS FROM ADJACENT APARTMENTS

The two tower design allows for views through the site from the Sebel building residences.

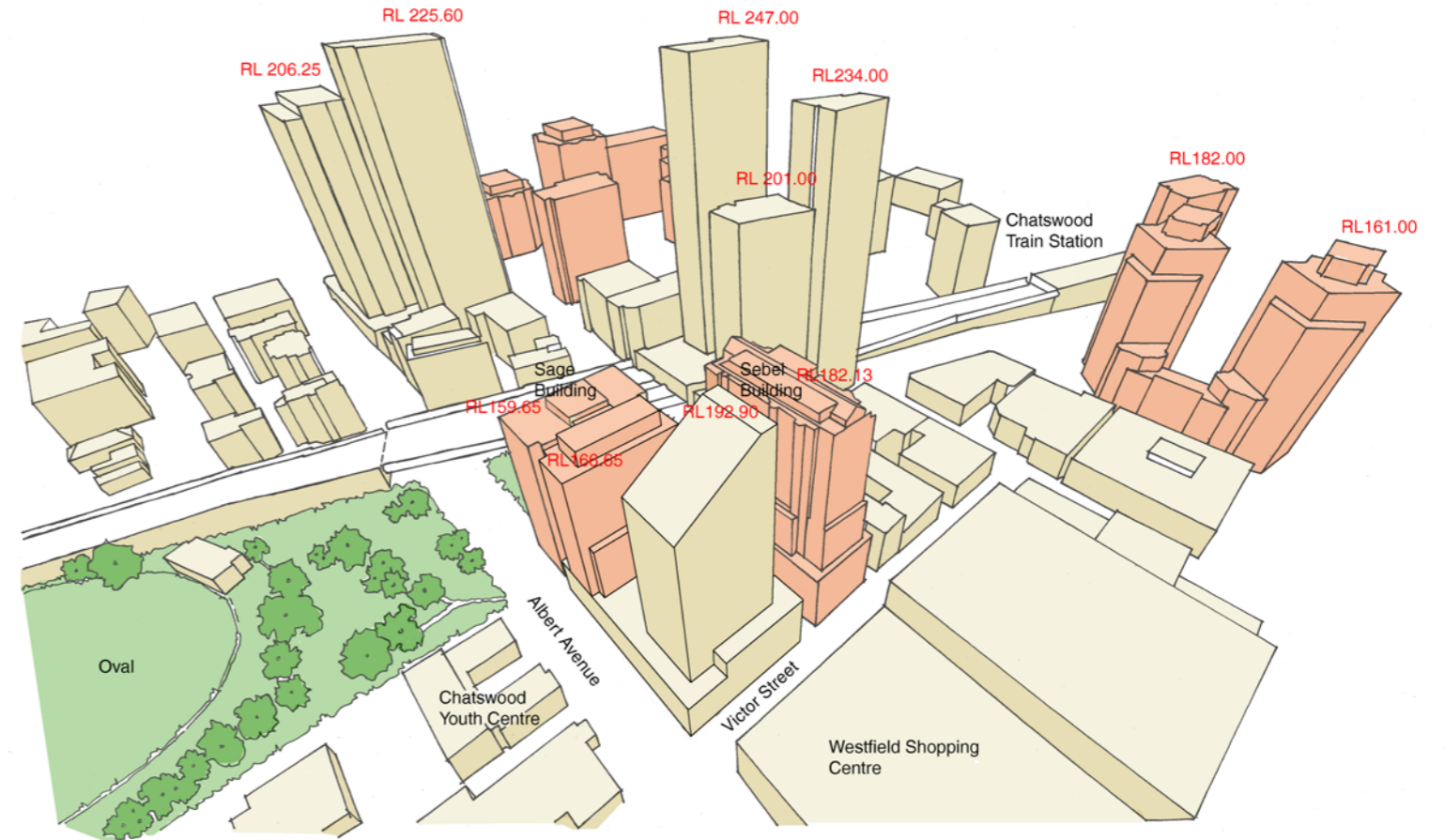
Please refer to Appendix 2 of this report (Project History) for a comparison of views available from the Sebel in other massing options for the site.



# 3.4 SURROUNDING HEIGHT CONTEXT

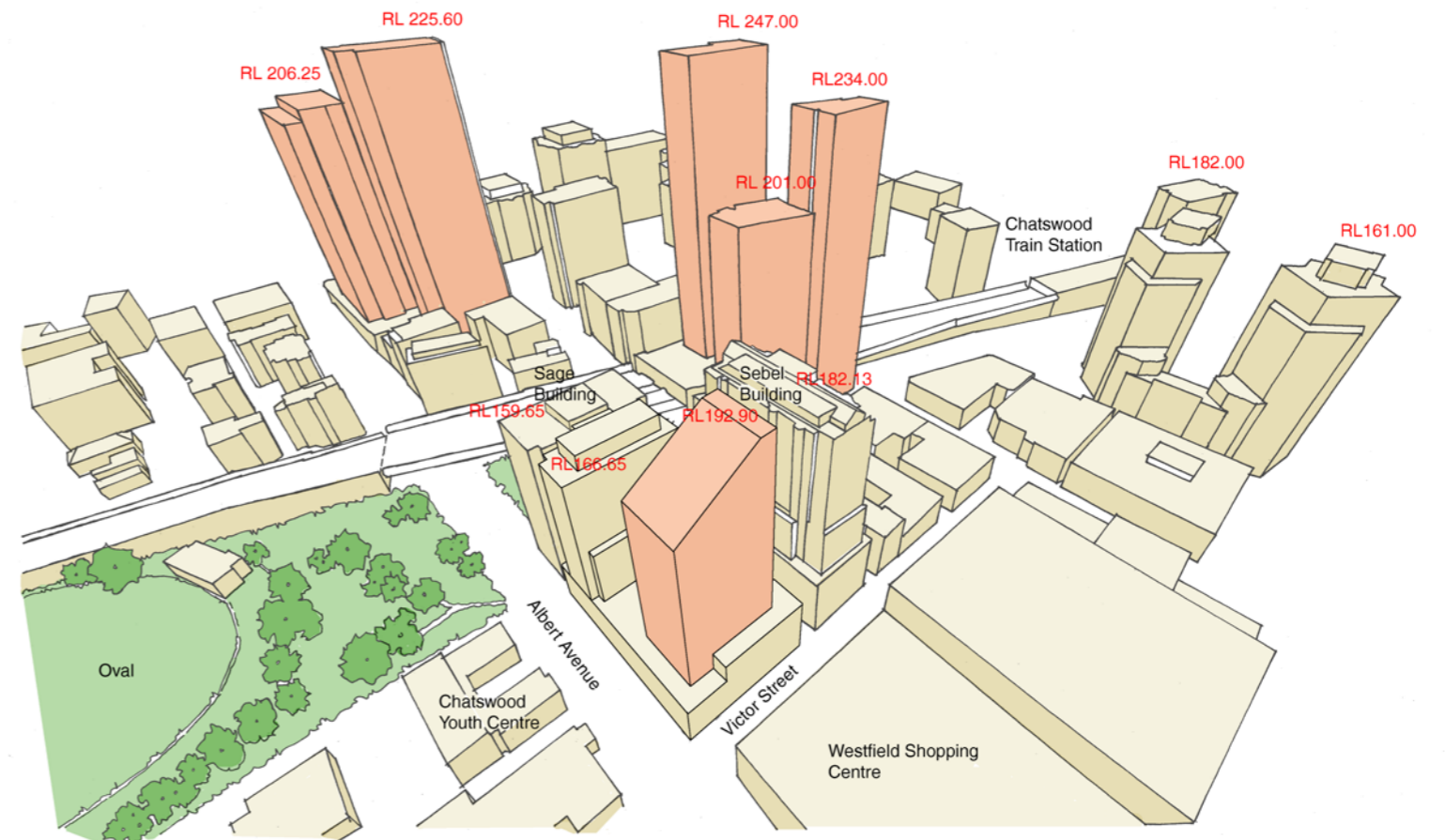
### HEIGHTS UP TO RL 185

Nearby buildings with a mid-scale height, similar to the proposed commercial tower, are shown highlighted in red



### HEIGHTS ABOVE RL 185

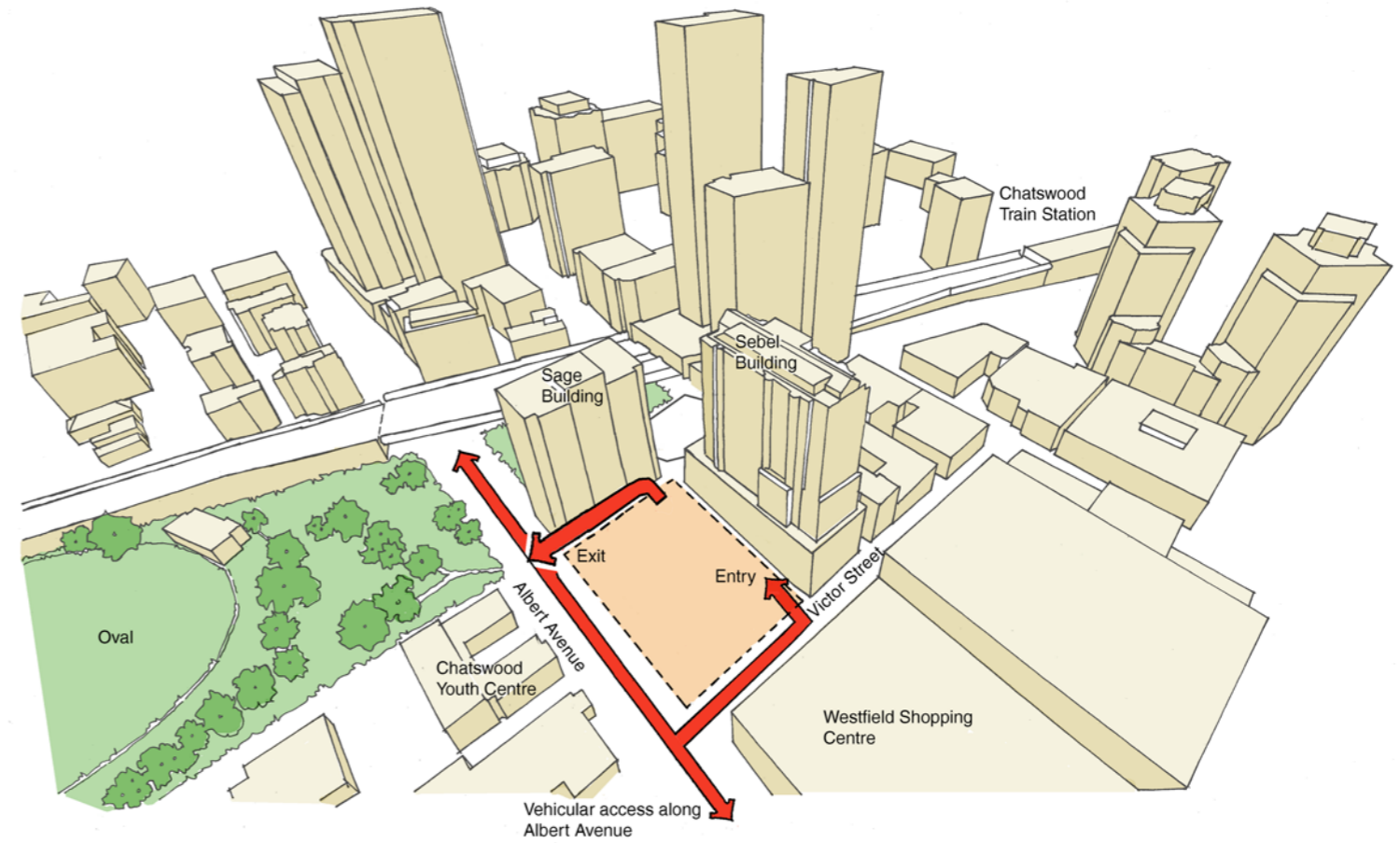
Nearby buildings with tower height above RL 185, similar to the proposed residential tower, are shown highlighted in red



# 4.0 SITE ACCESS ANALYSIS

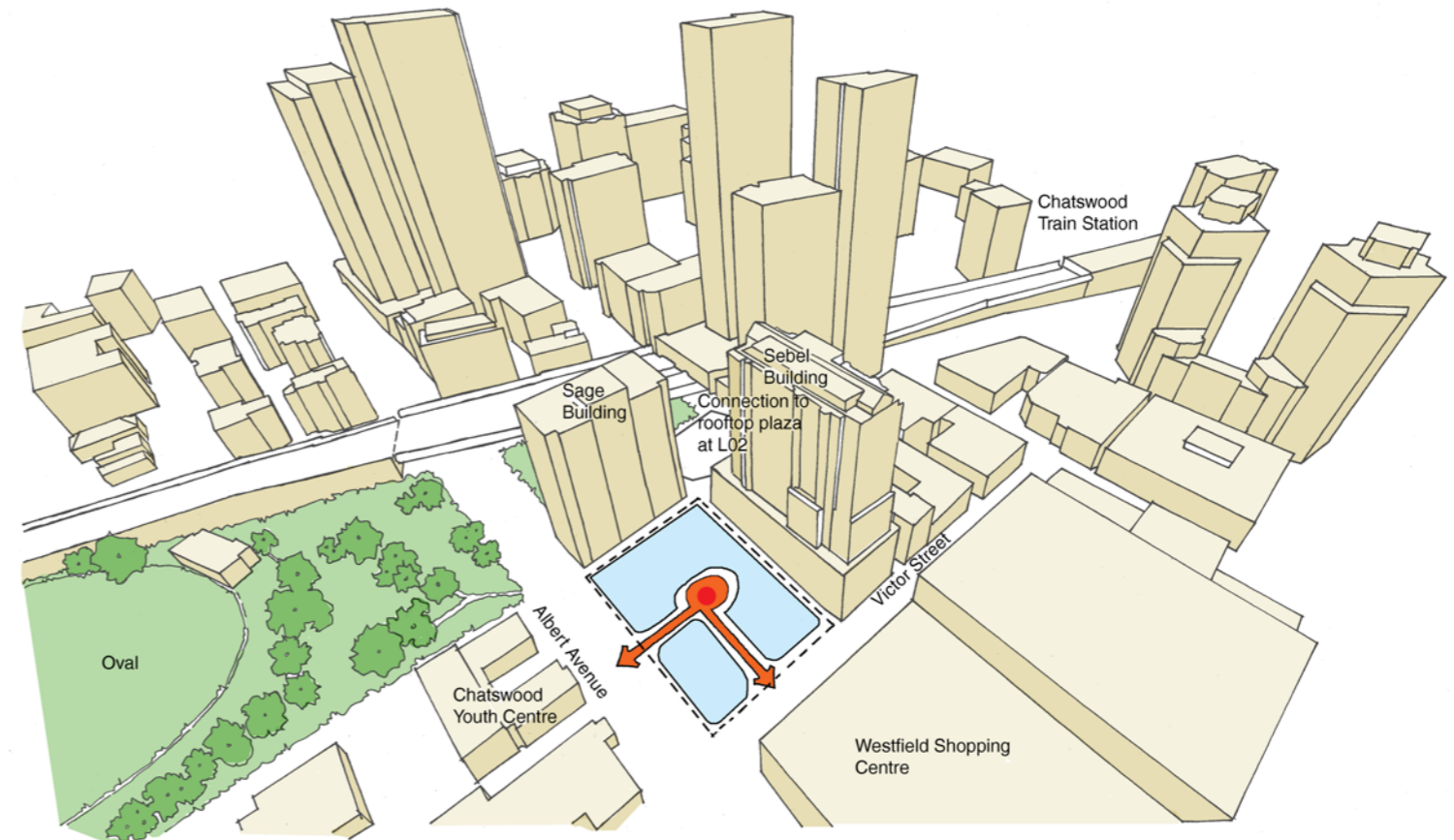
## VEHICLE ACCESS

Basement parking is accessed via an entry point off Victor Street and an exit point from the opposite side of the site, between the Sebel building and the western site boundary.



## PEDESTRIAN ACCESS

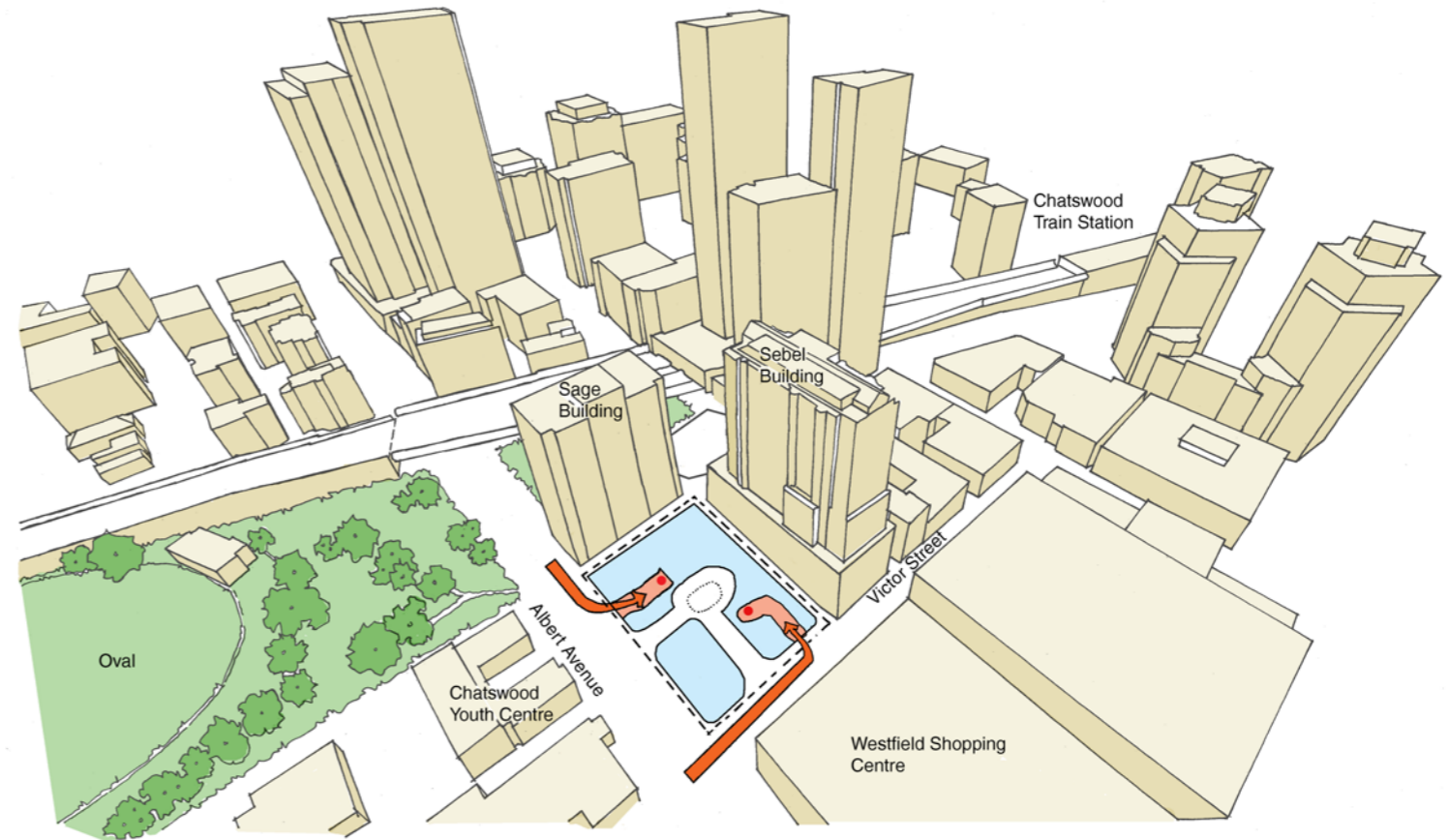
Generous circulation on ground level, flanked in retail, invites the public into the building and offers through-site connection. The Victor Street entry addresses pedestrians from the Westfield shopping entrance/exit on that street, and the Albert Avenue entry is centrally located on the building's frontage.



# 4.1 PEDESTRIAN ACCESS

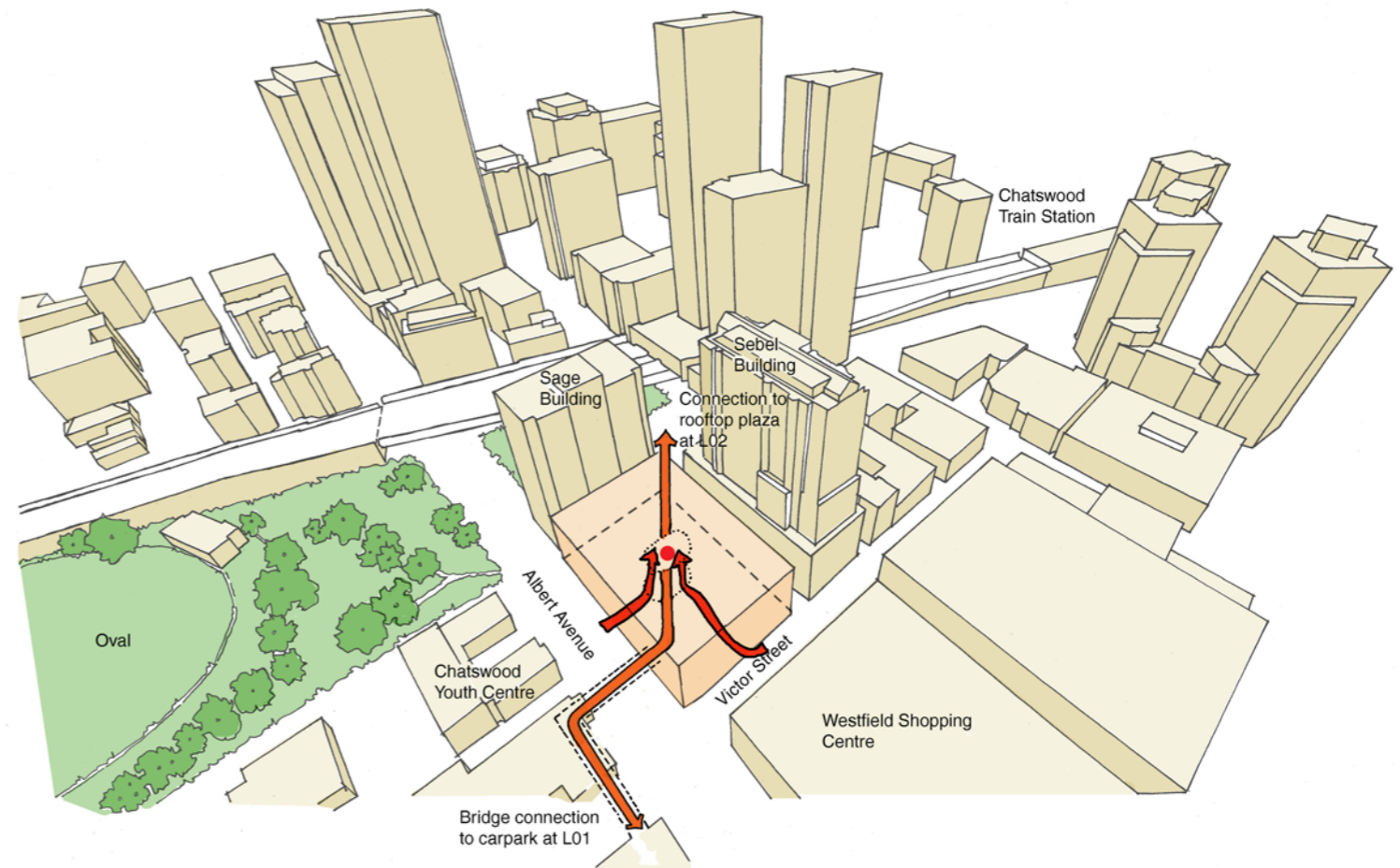
## RESIDENTIAL ACCESS

Access to the commercial and residential towers above the retail centre is accessed via private lobbies on each street frontage.



## PUBLIC THROUGH-SITE CONNECTIONS

Visually connected vertical circulation offers through-site connection between the public carpark access on level one and the elevated paza access to Chatswood Station at level two.

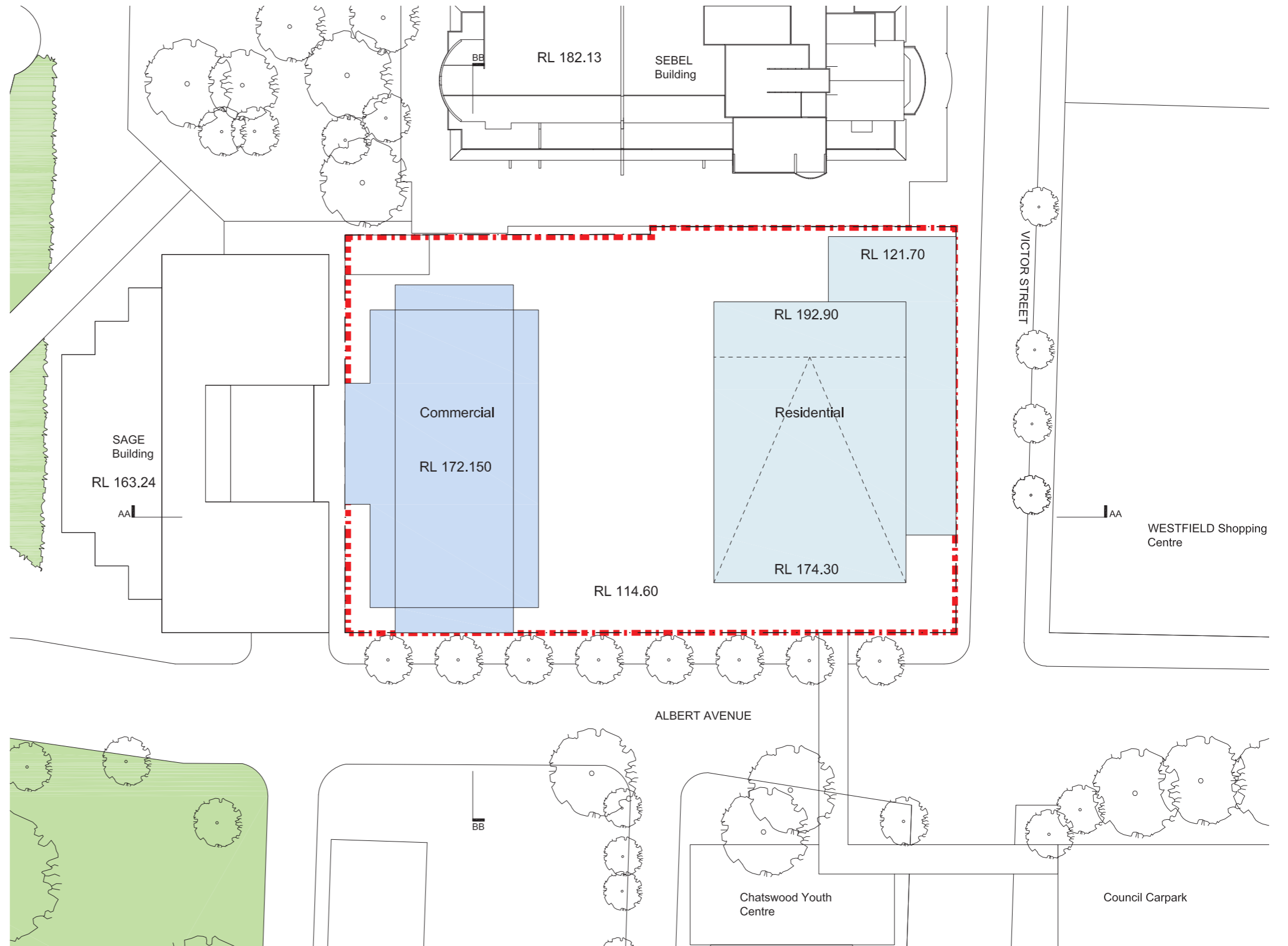


# 5.0 CONCEPT DESIGN

*The design strategy is derived from our detailed understanding of the context, study of desire lines and a vision for place making.*

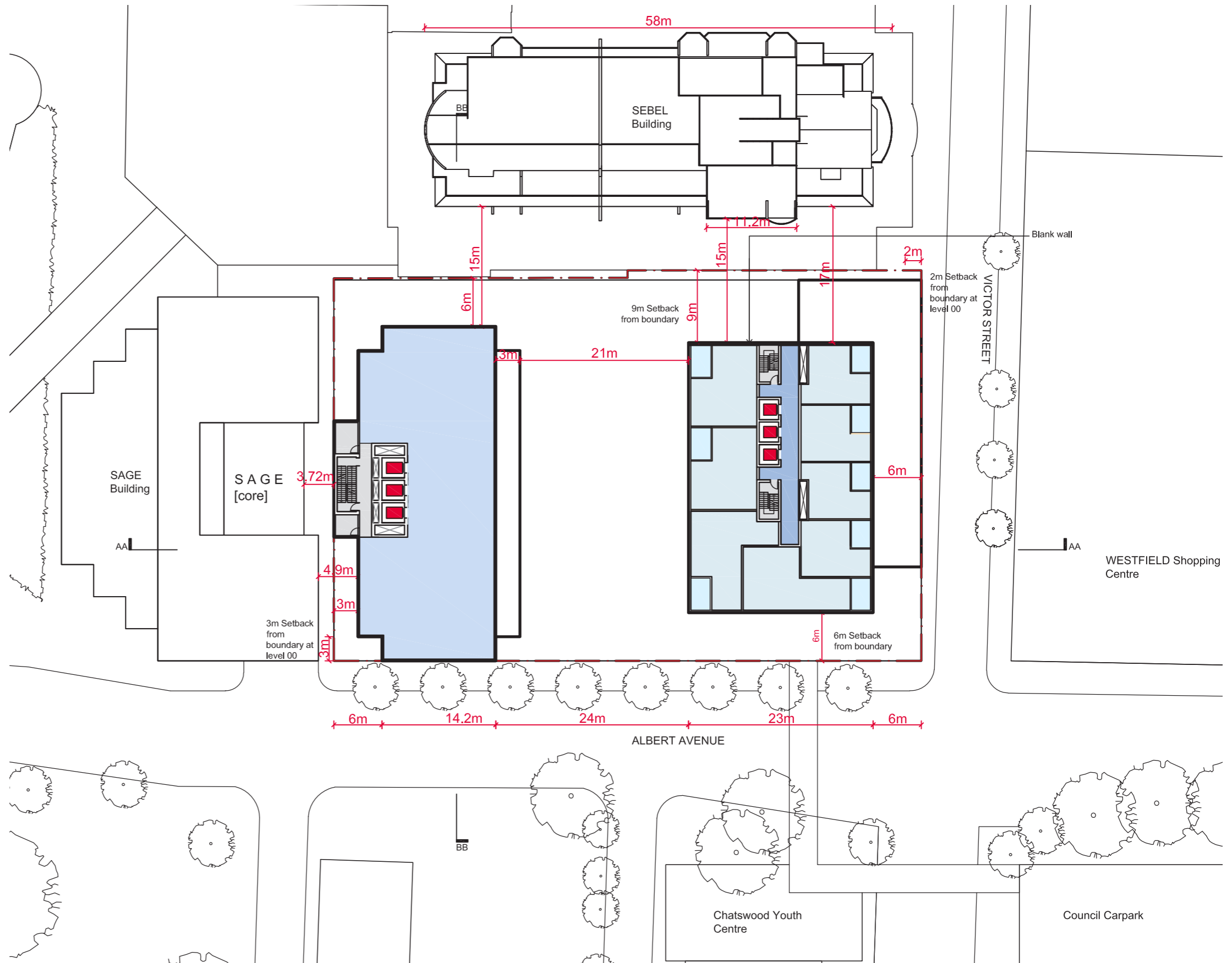


# 5.1 SITE PLAN & BUILDING HEIGHTS





# 5.2 TYPICAL LEVEL SETBACKS

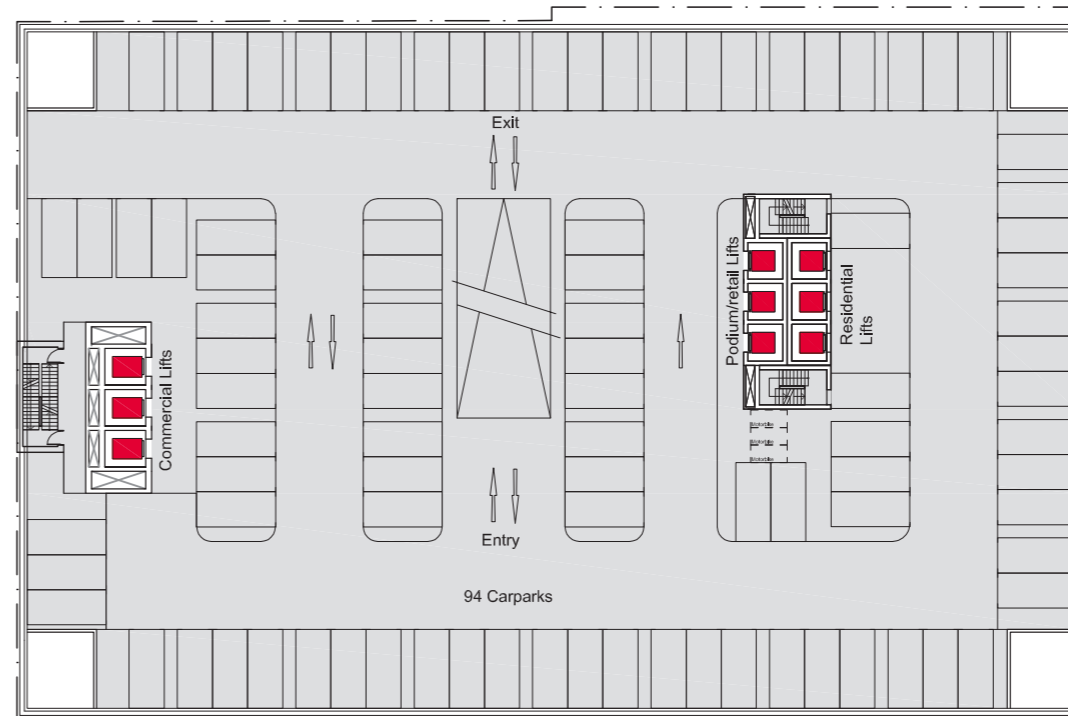


# 6.0 PLANS

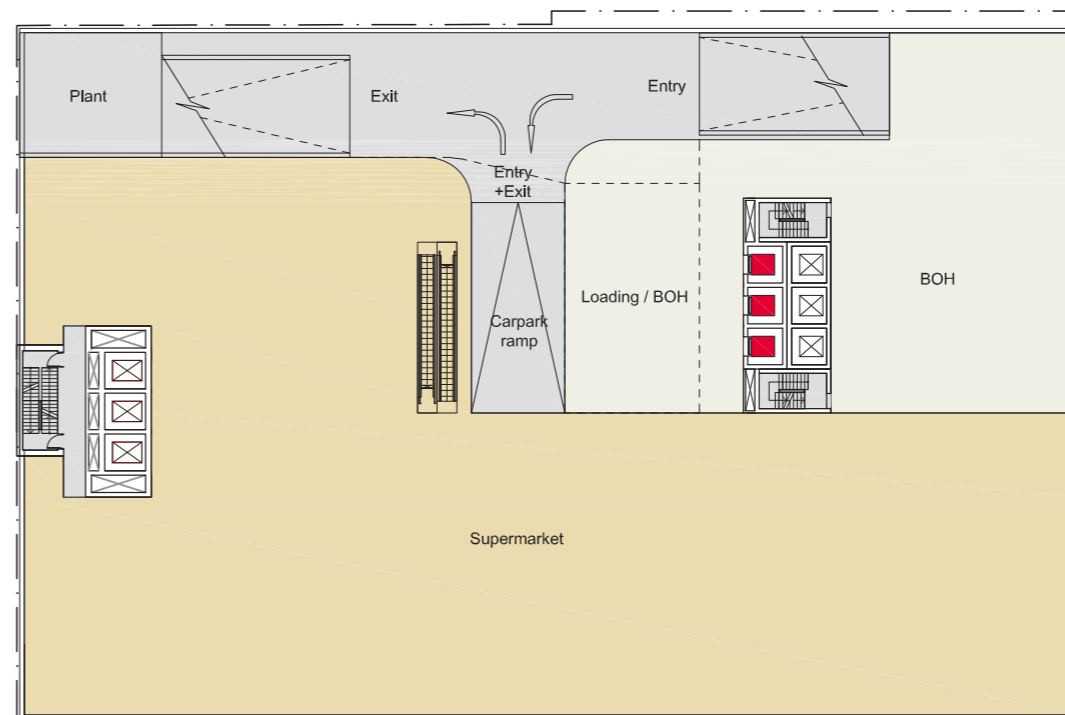
*Pedestrian connectivity, retail activation, and coherent built form outcomes are key factors driving the concept design*



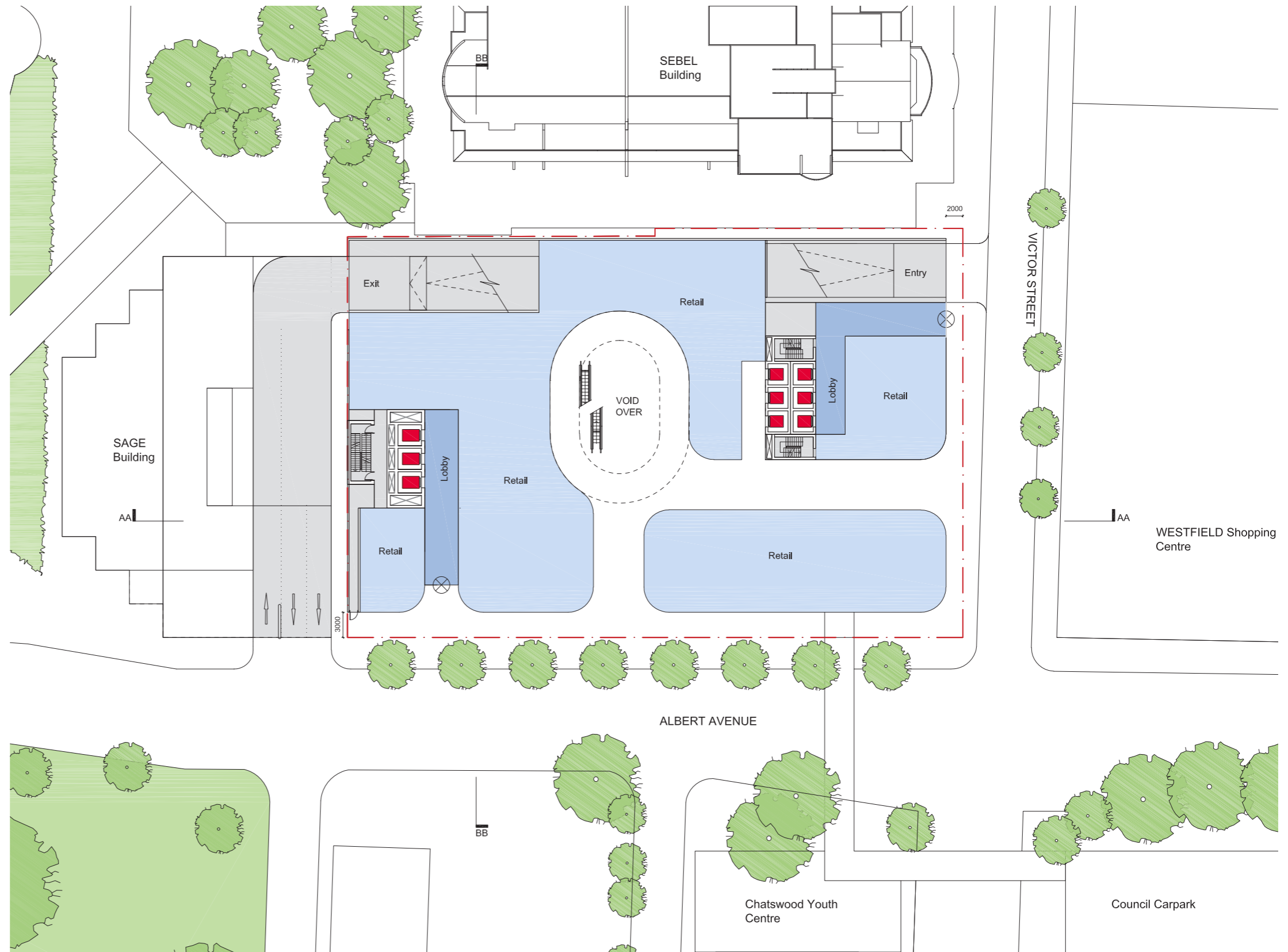
# 6.1 TYPICAL LOWER BASEMENT LEVEL



# 6.2 BASEMENT LEVEL 1



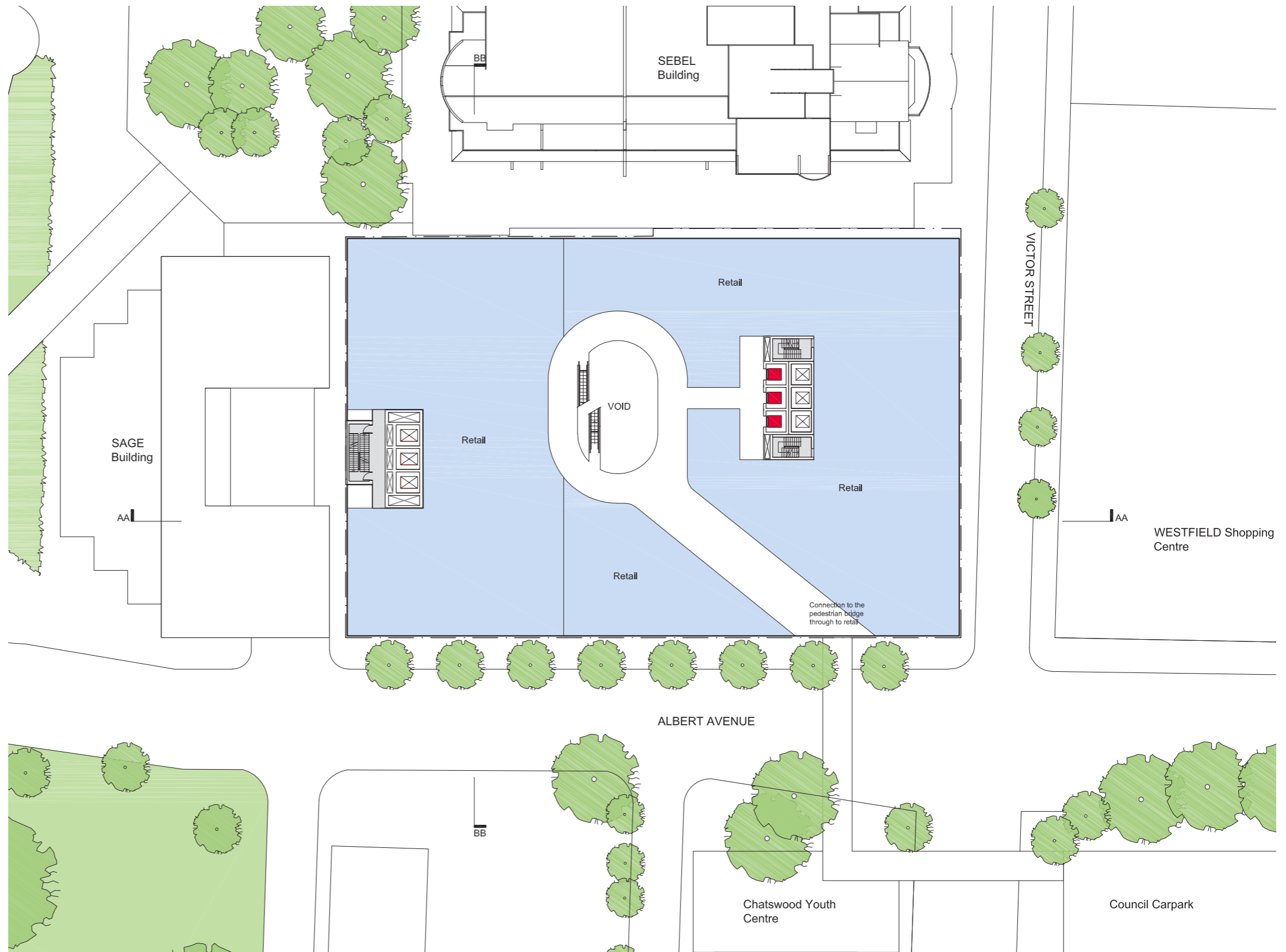
# 6.3 GROUND FLOOR



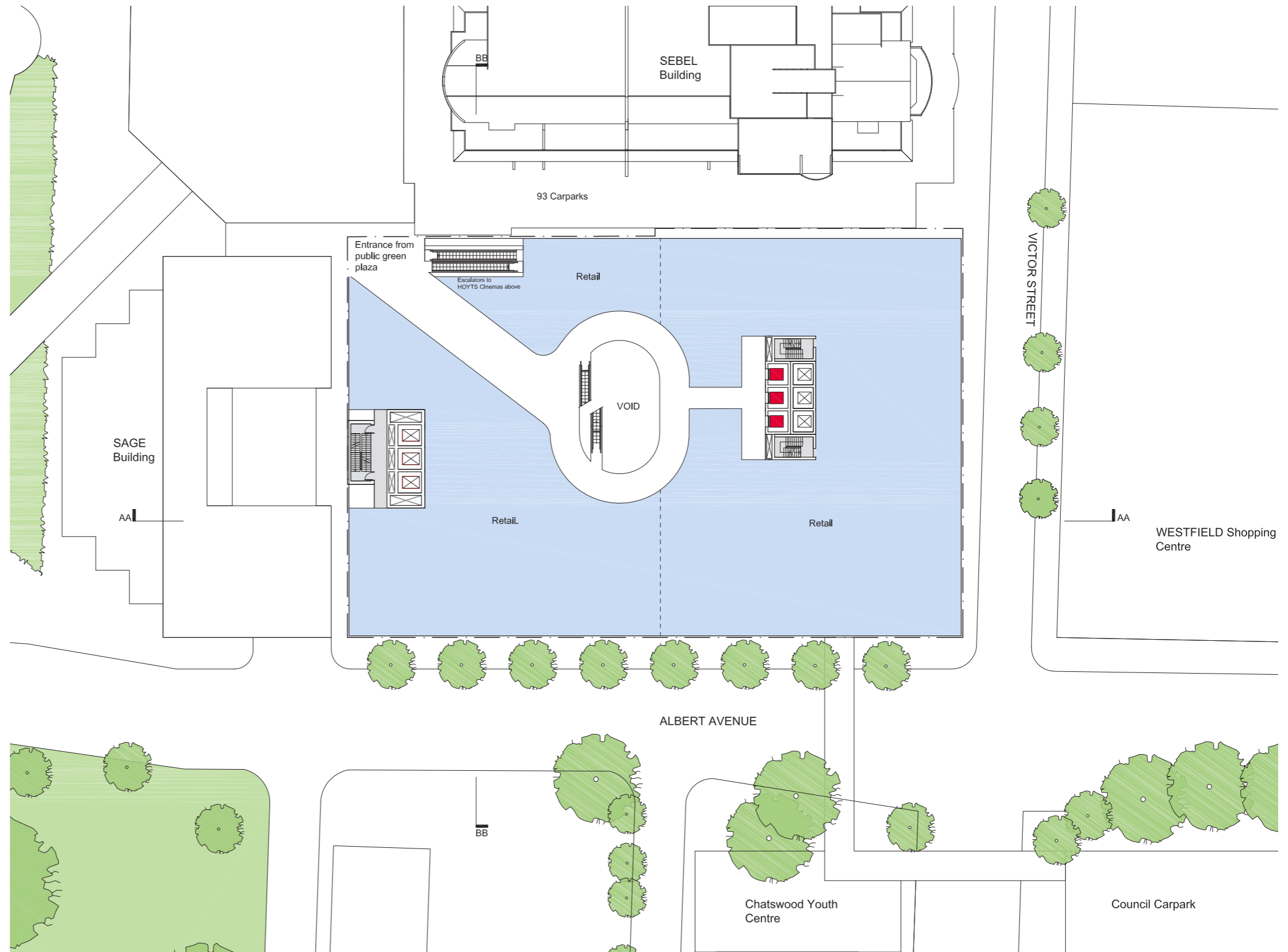
*Generous circulation areas on ground level, flanked with retail, invites the public into the building and offers through-site connectivity towards Chatswood Station*



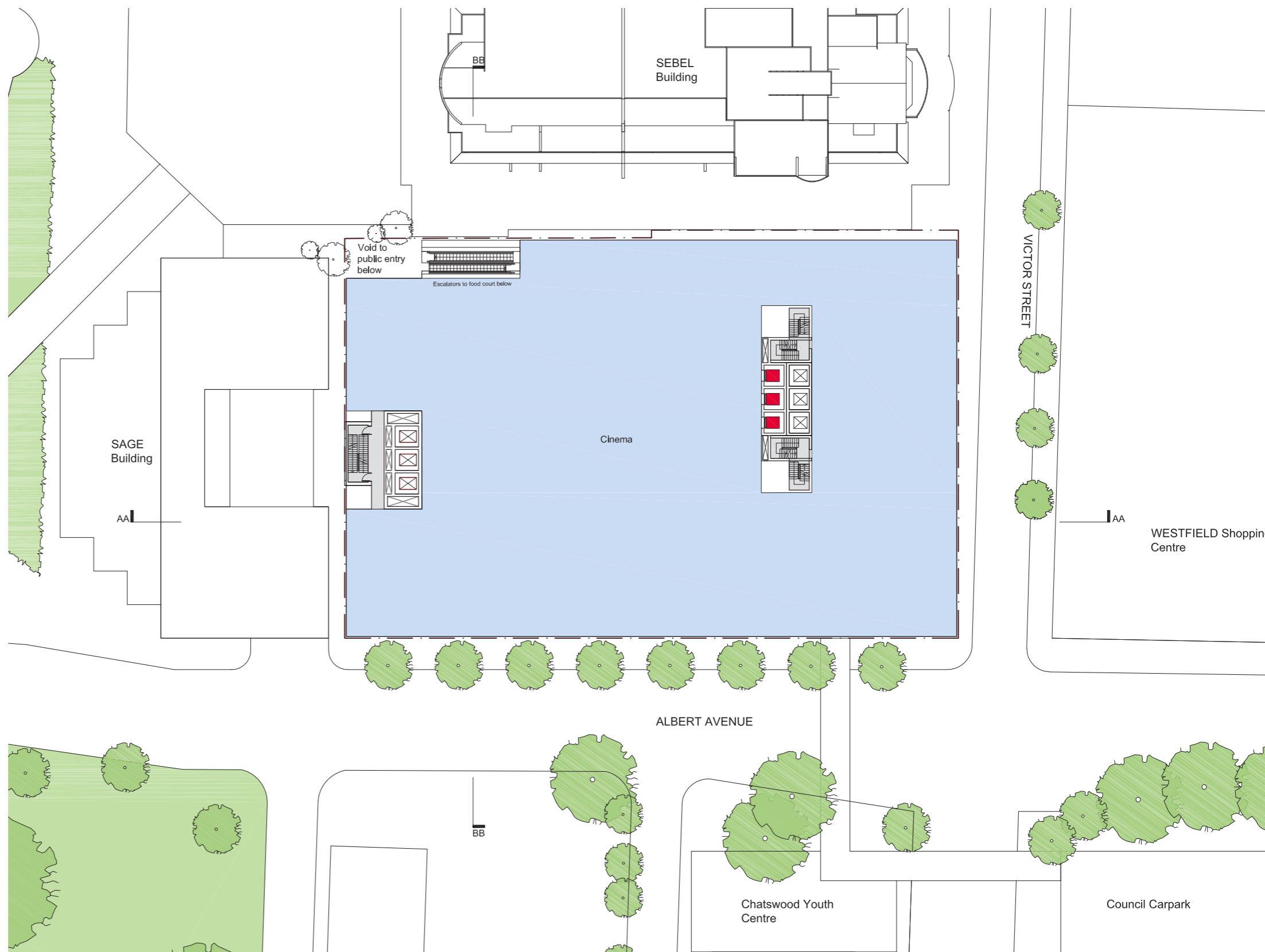
# 6.4 PODIUM LEVEL 1



# 6.5 PODIUM LEVEL 2

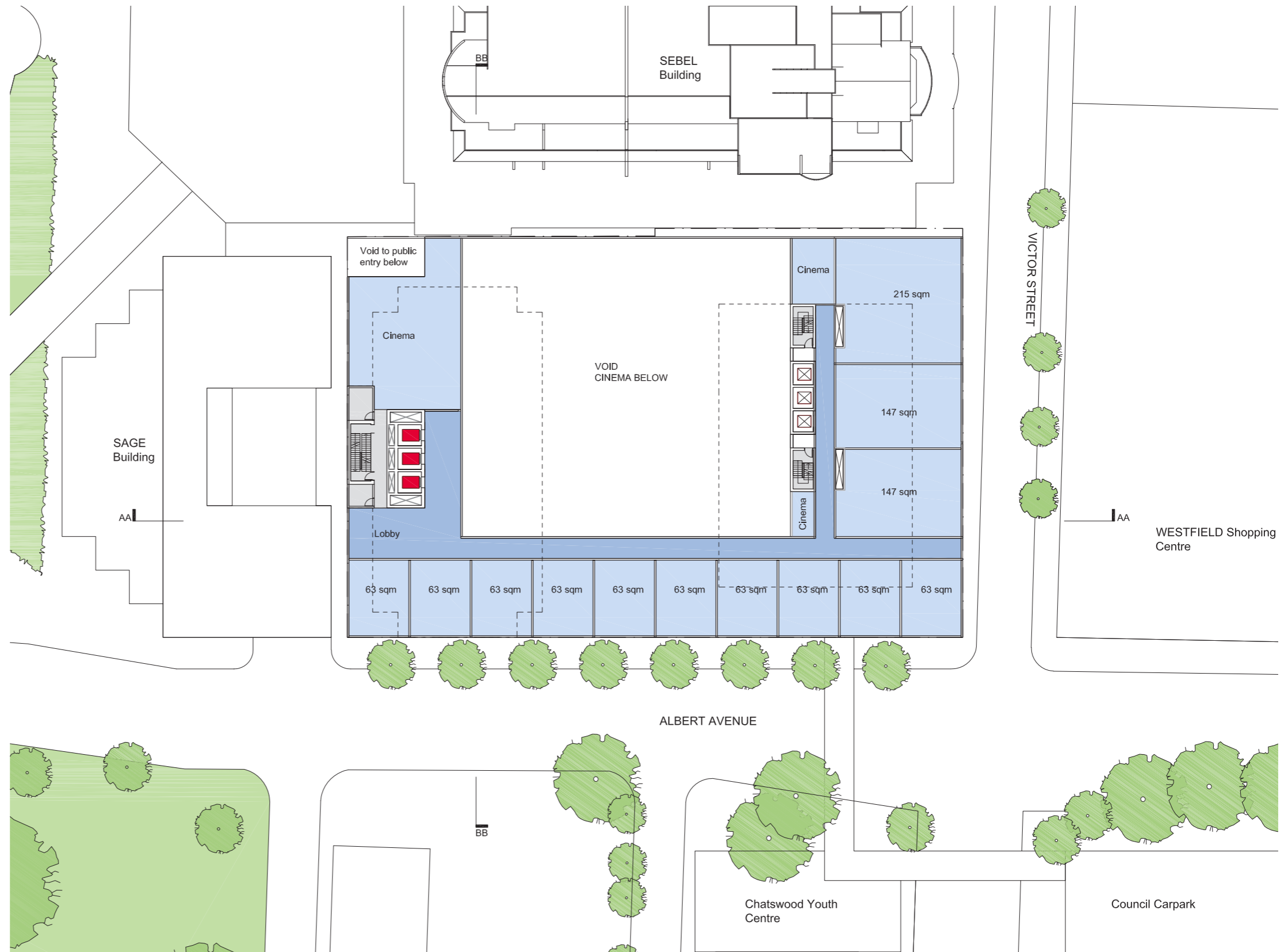


# 6.6 PODIUM LEVEL 3





# 6.7 PODIUM LEVEL 4



# 6.8 PODIUM LEVEL 5

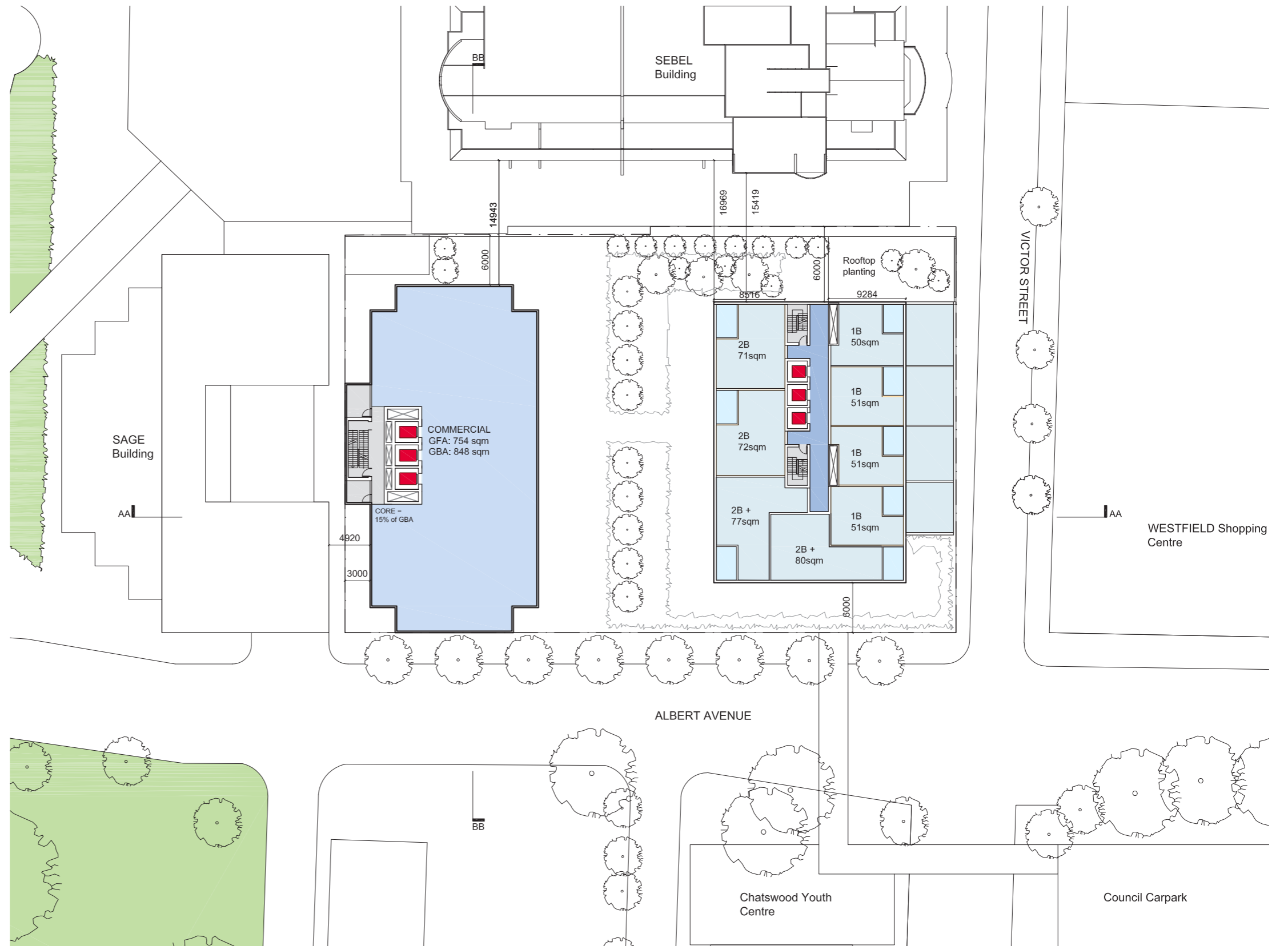
*A mix of uses occupy the podium rooftop, including floorspace allocated to a childcare or educational facility. Planted screening is proposed to separate each usage type.*



# 6.9 PODIUM LEVEL 6



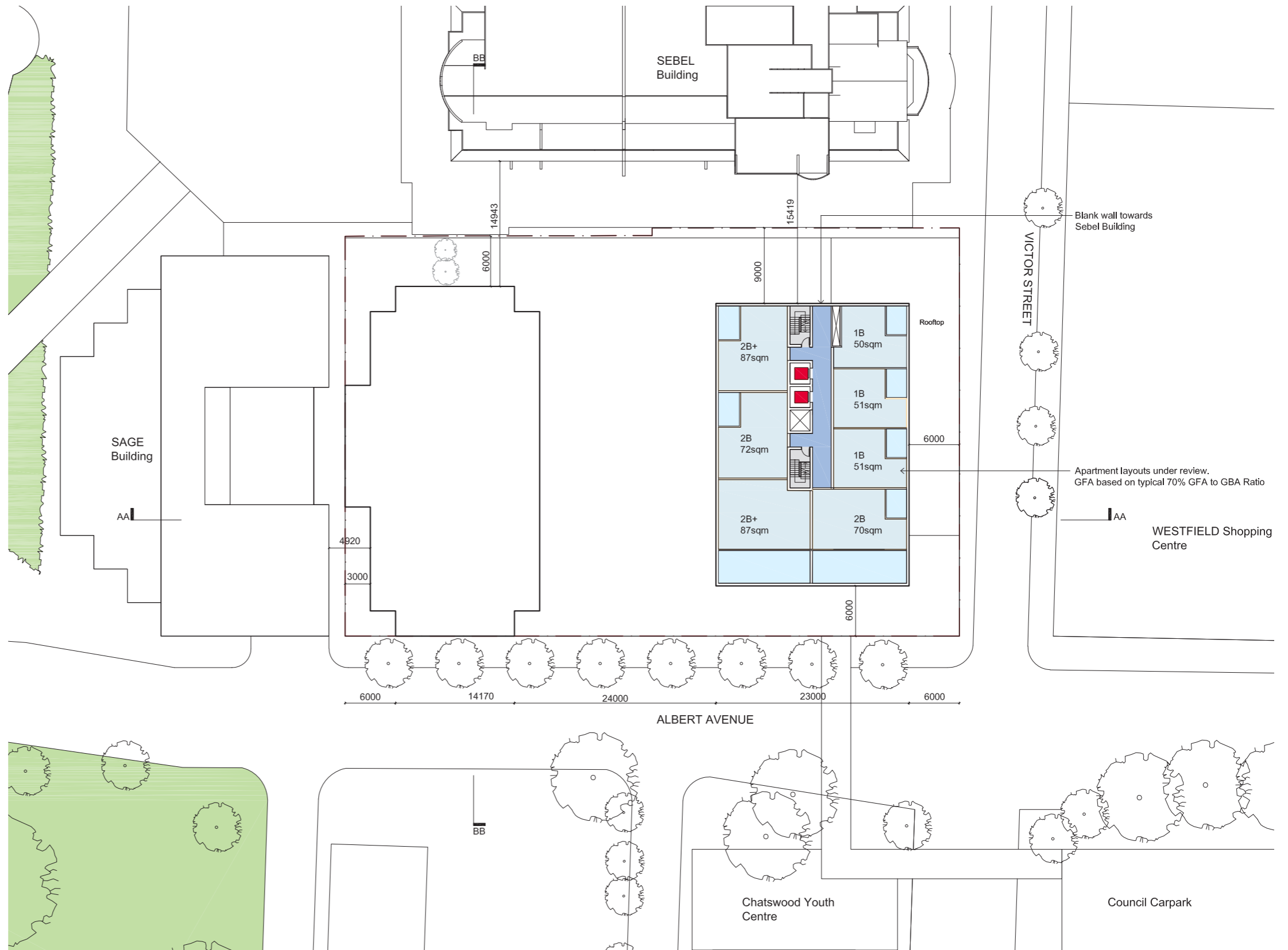
# 6.10 TYPICAL LEVELS 7-10



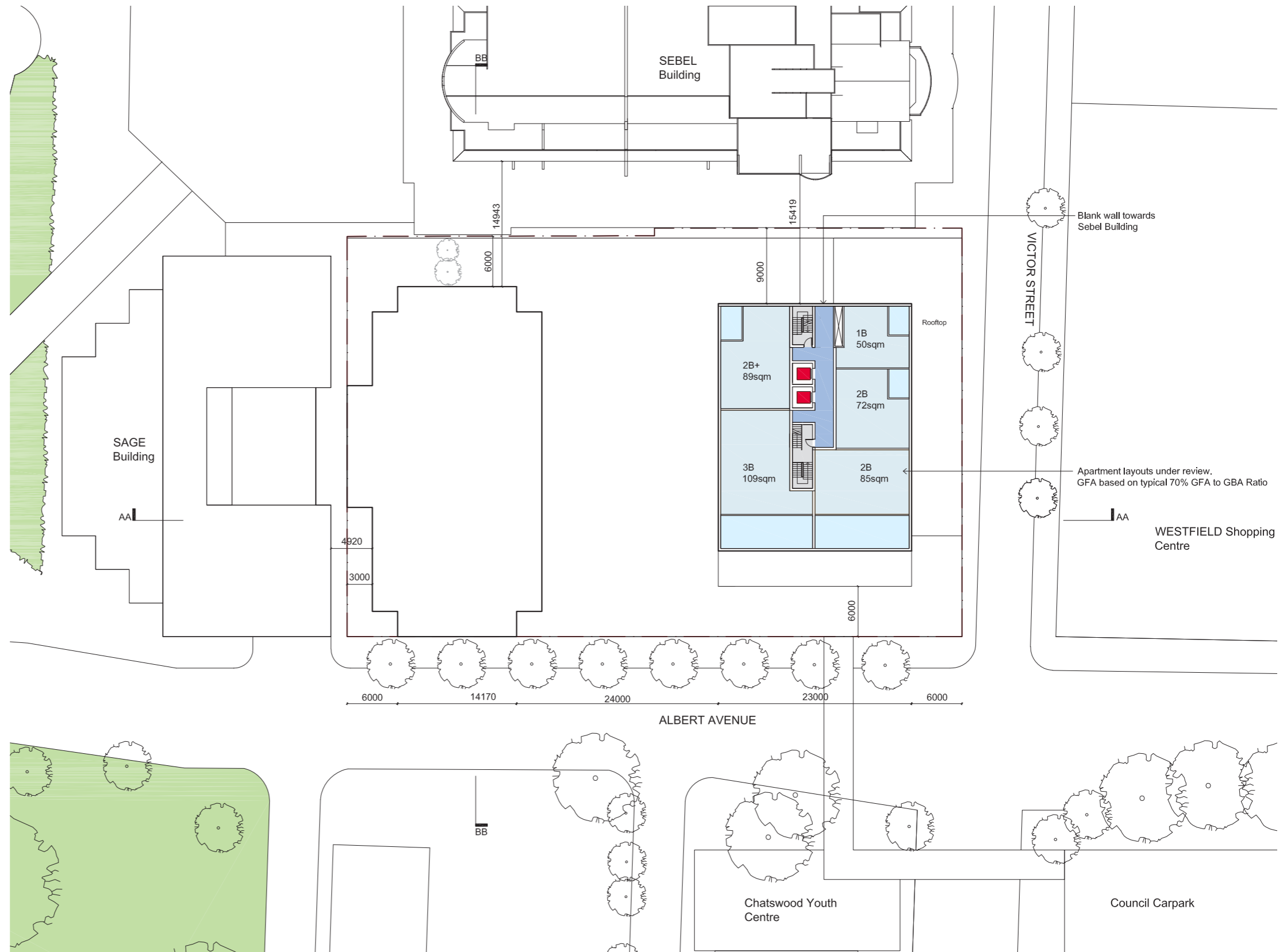
# 6.11 TYPICAL LEVELS 11-18



# 6.12 LEVEL 24



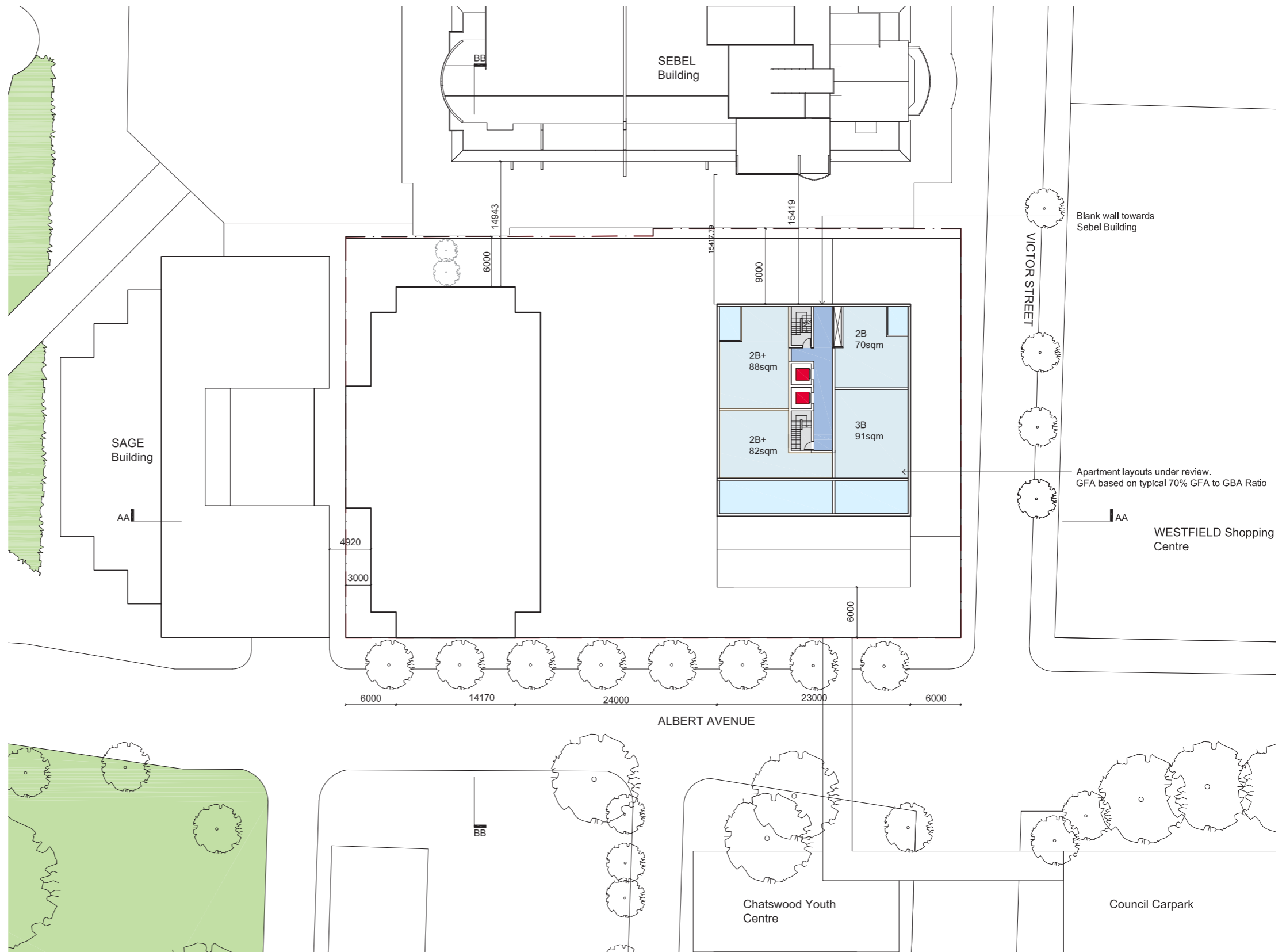
# 6.13 LEVEL 25



*The uppermost residential levels step back from the southern edge to improve solar access to adjacent public spaces*

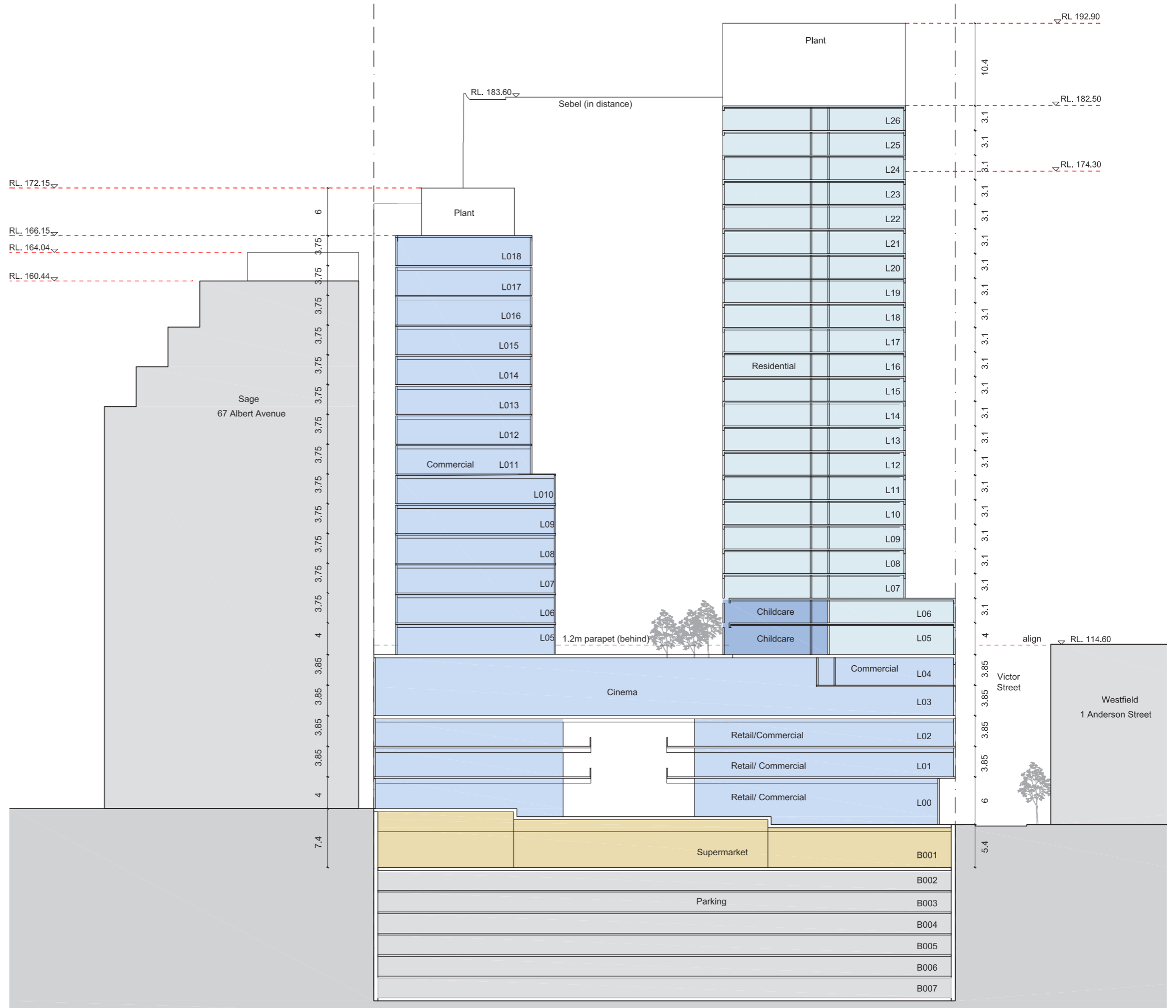


# 6.14 LEVEL 26

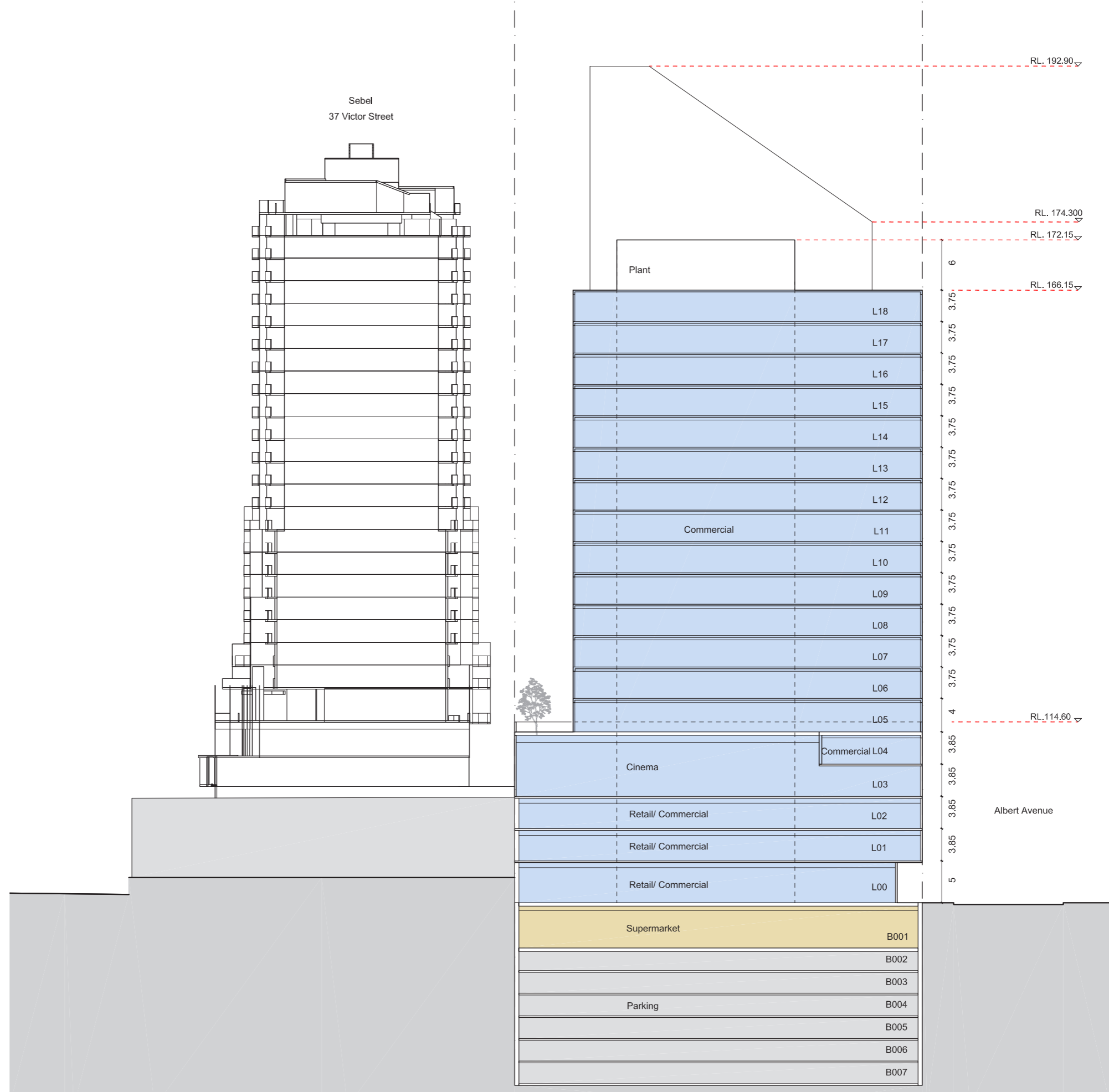




# 7.1 SECTION AA



# 7.2 SECTION BB



# 8.0 APARTMENT AMENITY

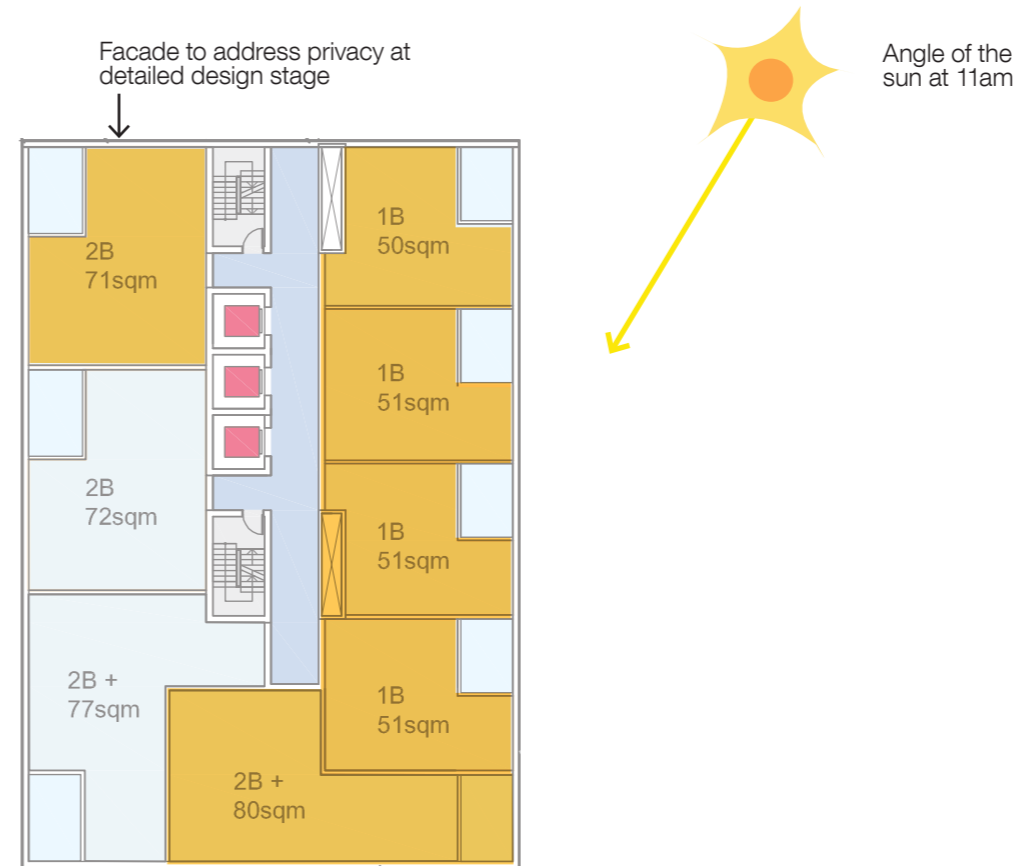
### SOLAR ACCESS

3D solar studies indicate that the concept design will achieve compliance with the ADG solar access provisions, i.e. 70% of apartments receive two hours of direct sunlight to living areas at June 21 between 9am and 3pm.

### NATURAL VENTILATION

Balcony positions, along with operable windows incorporated into the facade, will facilitate the provision of natural cross ventilation for all apartments.

At least 60% of apartments are required to be naturally cross ventilated.



### Typical Plan

Apartments highlighted in dark orange receive two hours of direct sunlight to living areas in mid winter

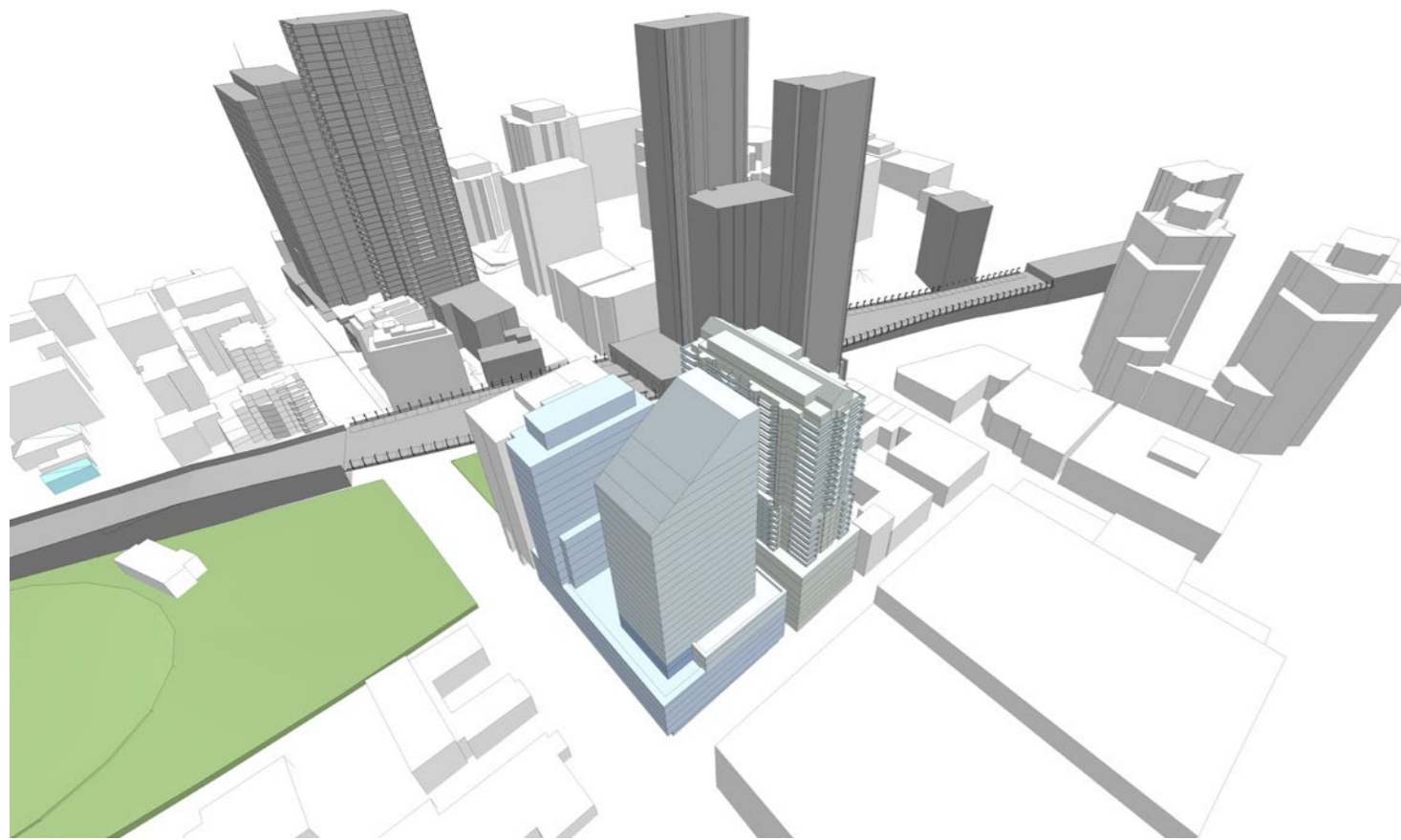


# 10.0 PERSPECTIVE VIEWS

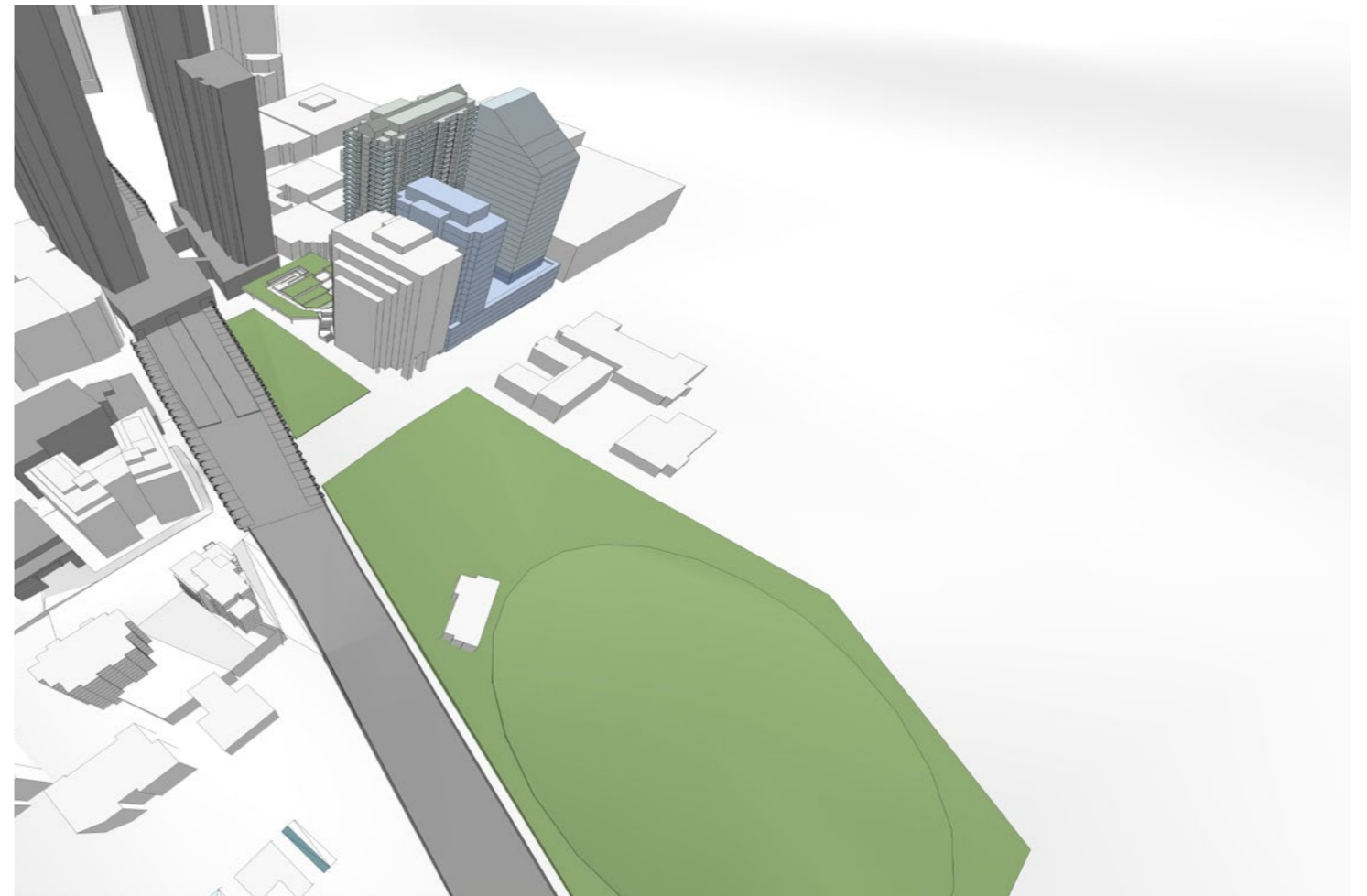
*The residential and commercial tower forms are envisaged to express individual identities within a unified whole.*



# 10.1 AERIAL VIEWS

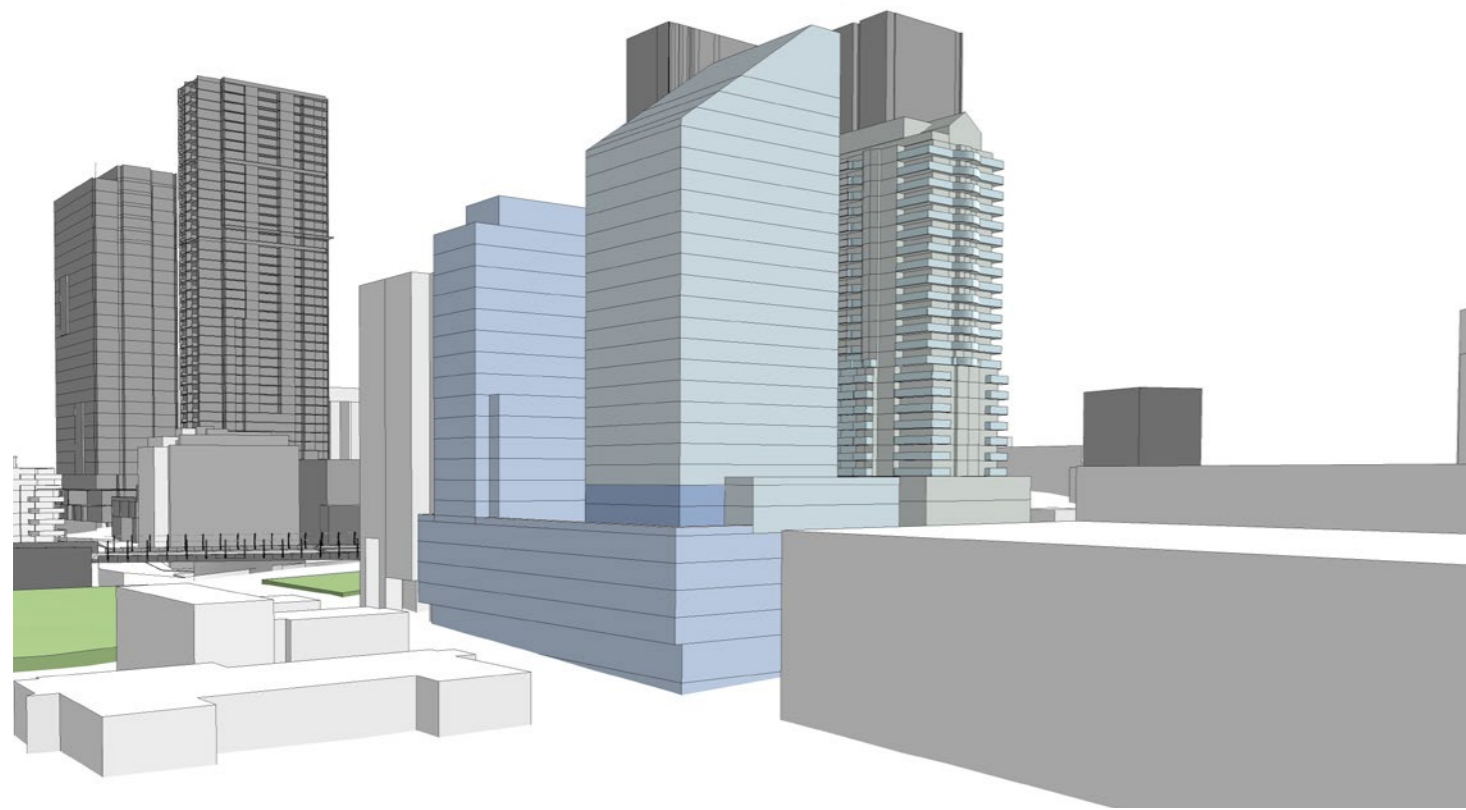


AERIAL VIEW FROM SOUTH-EAST

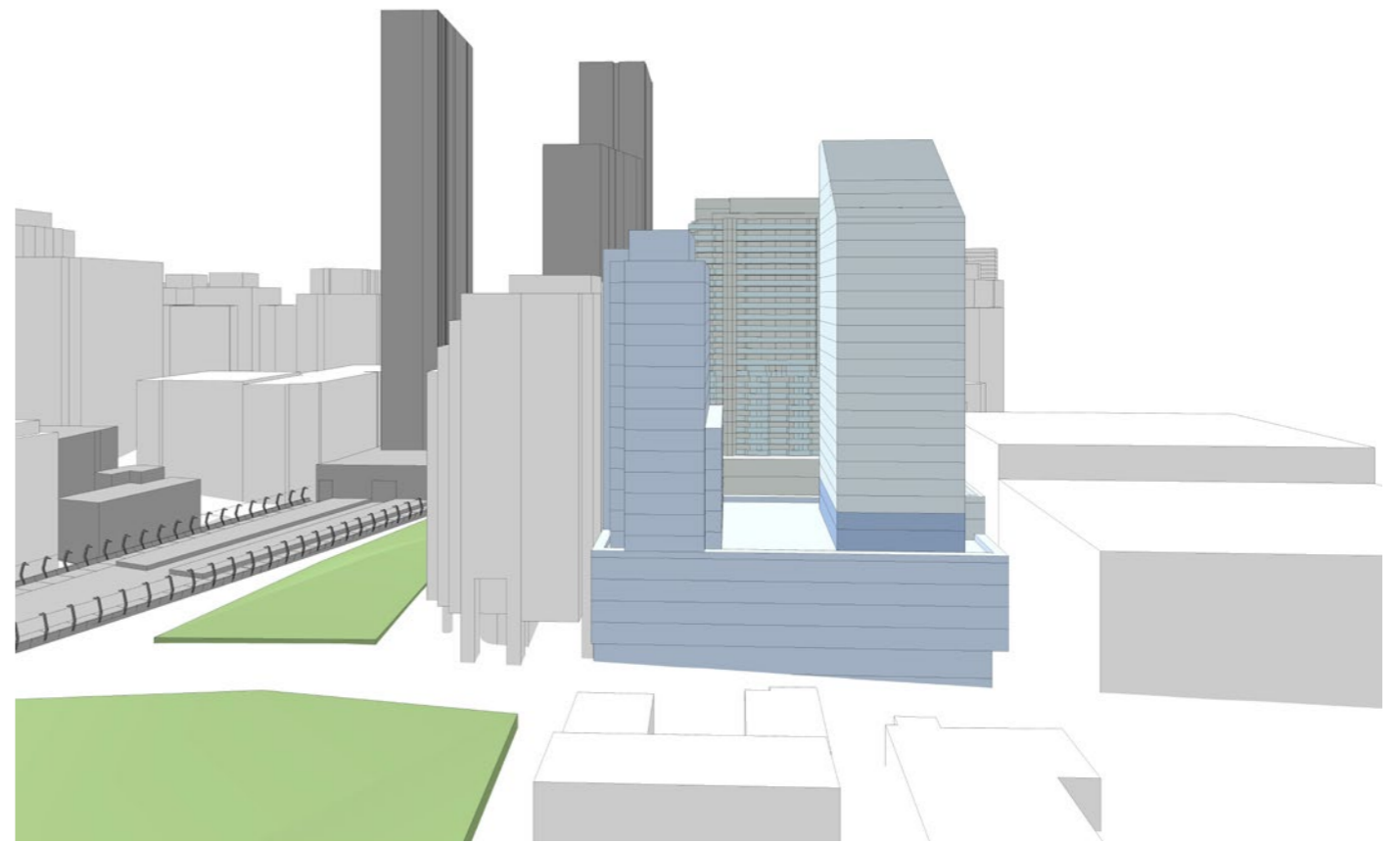


AERIAL VIEW FROM SOUTH-WEST

# 10.2 ELEVATED VIEWS

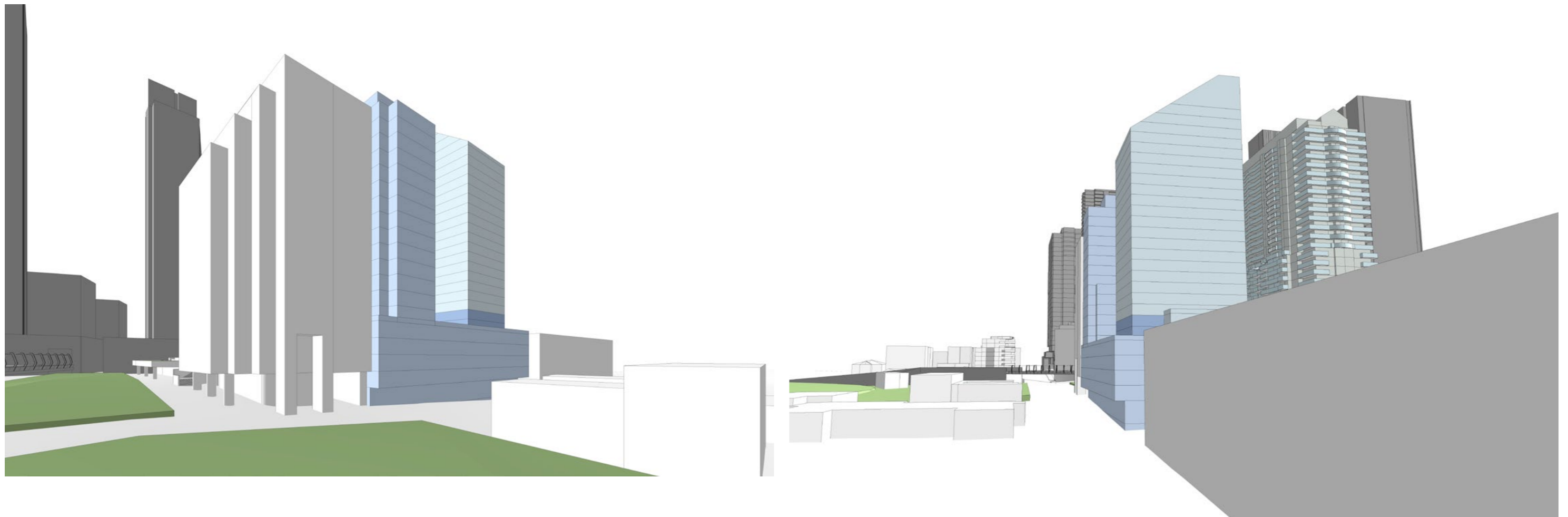


ELEVATED VIEW FROM EAST



ELEVATED VIEW FROM SOUTH

# 10.3 VIEWS FROM SURROUNDINGS

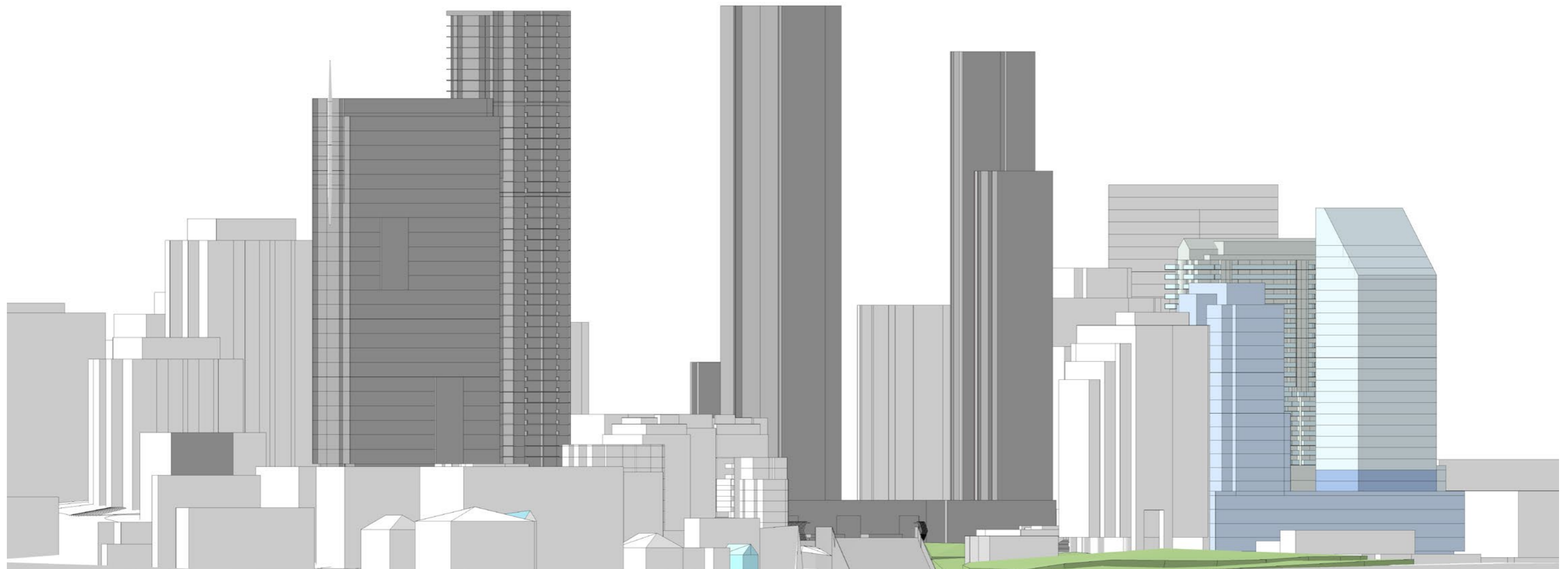


VIEW FROM CHATSWOOD PARK

VIEW WEST ALONG ALBERT AVENUE



# 10.4 SKYLINE



SKYLINE FROM SOUTH

# 11.0 APPENDICES



# APPENDIX 1.0 SHADOW STUDIES

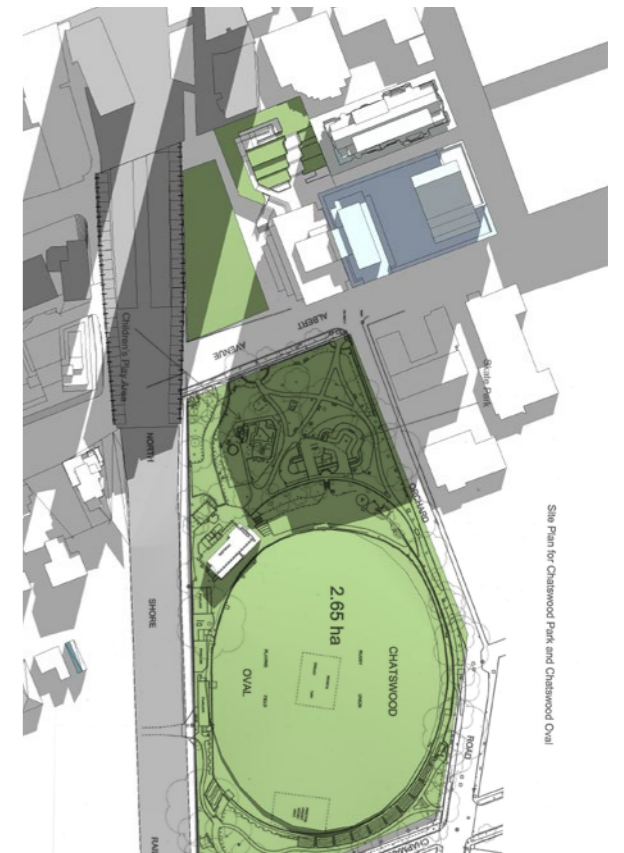
WINTER SOLSTICE - JUNE 21



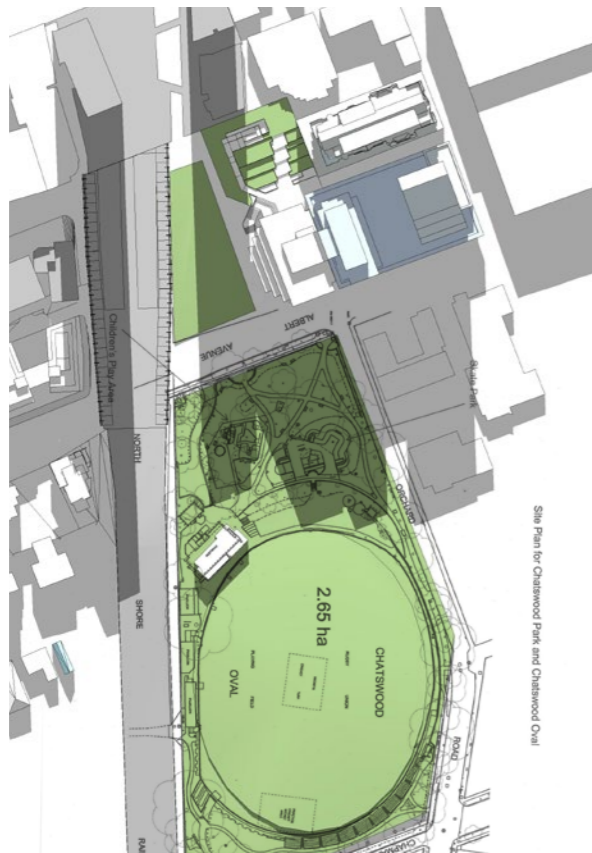
9AM



10AM



11AM



NOON



1PM

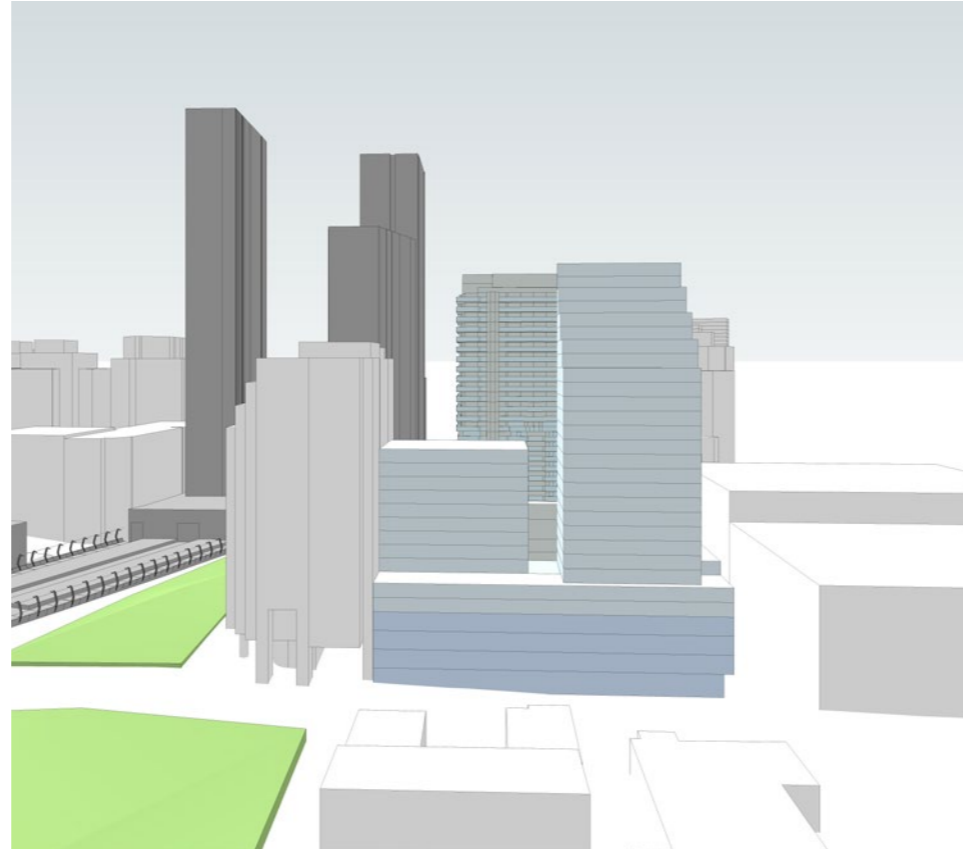


2PM

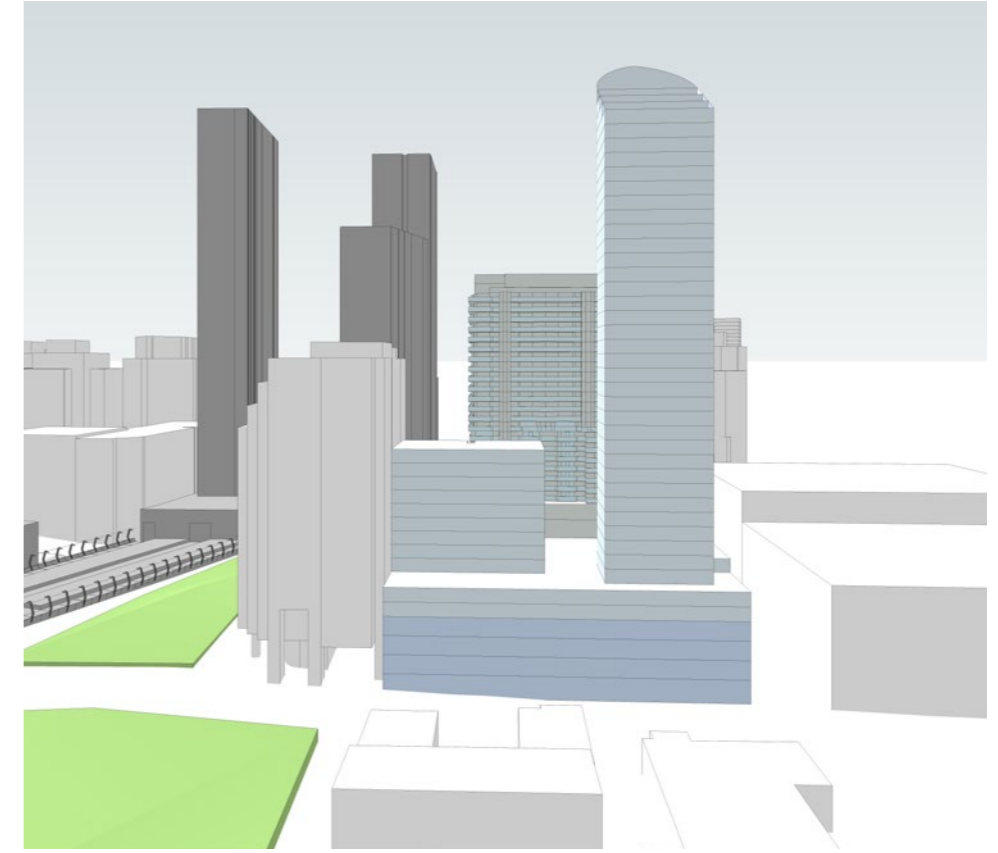


3PM

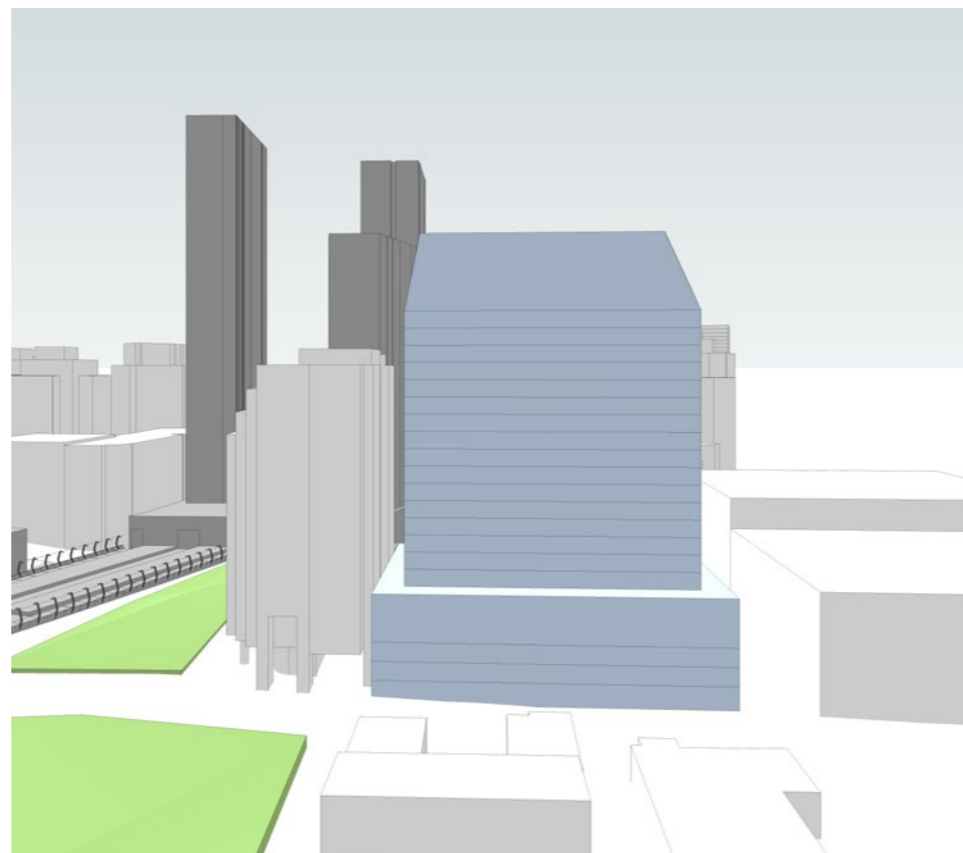
# APPENDIX 2.0 PROJECT HISTORY



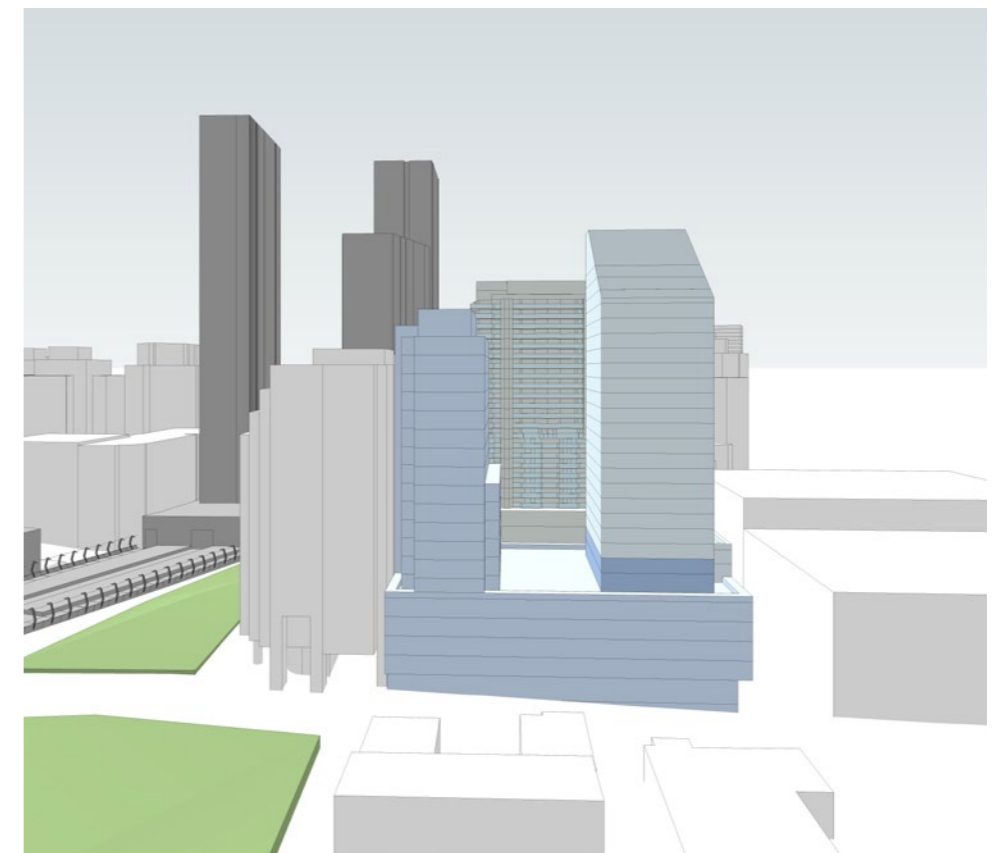
2014 - GATEWAY PROPOSAL



2016 - PLANNING PROPOSAL



2017 - CONCEPT DESIGN UNDER DRAFT CBD STRATEGY



2018 - DRAFT CONCEPT DESIGN