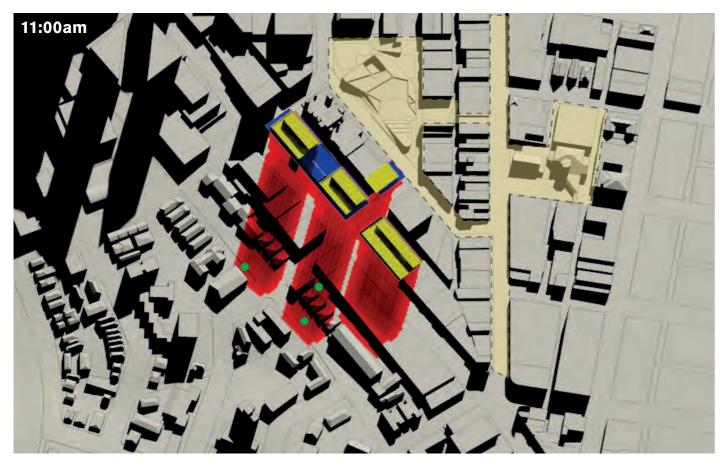
5.3 Shadow Analysis
June 11:00AM - 11:30AM

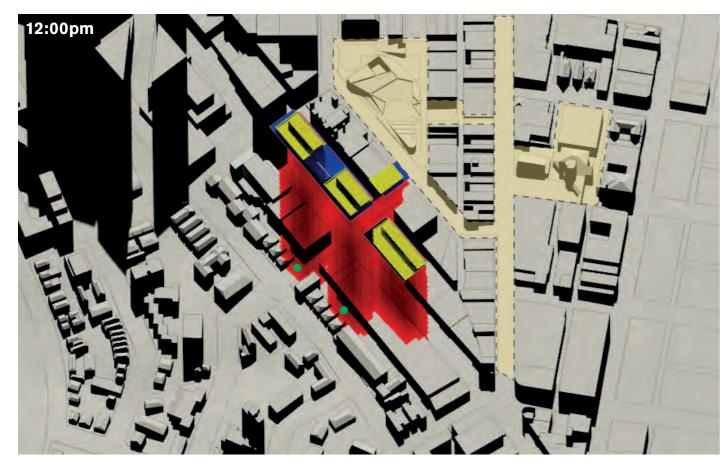




Some additional shading of private open areas occurs to the properties to the south west of the development, though none of these occasions are long enough to prevent compliance.

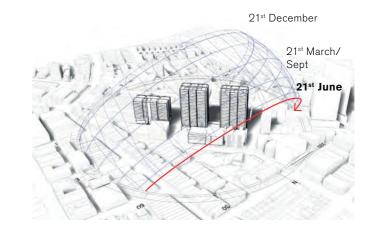
- Existing Shadows
- Proposed Buildings
- Proposed Podium
- Proposed Massing Shadow
- Key Public areas
- Overshadowing of Private Spaces
- Overshadowing of Public Spaces

5.3 Shadow Analysis
June 12:00PM - 12:30PM



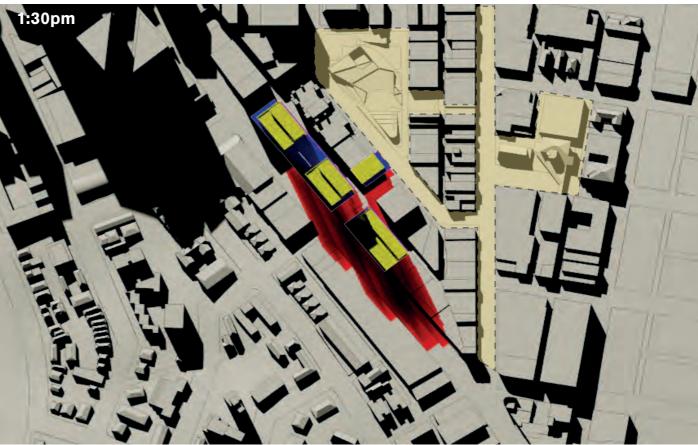


Existing Shadows
Proposed Buildings
Proposed Podium
Proposed Massing Shadow
Key Public areas
Overshadowing of Private Spaces
Overshadowing of Public Spaces



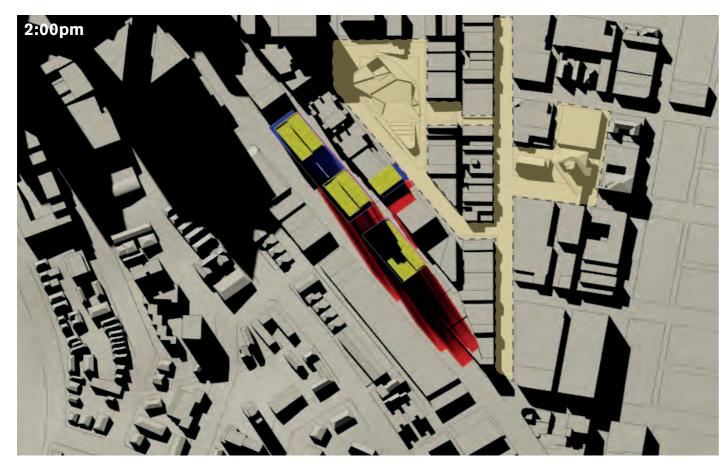
5.3 Shadow Analysis
June 1:00PM - 1:30PM





- Existing Shadows
- Proposed Buildings
- Proposed Podium
- Proposed Massing Shadow
- Key Public areas
- Overshadowing of Private Spaces
- Overshadowing of Public Spaces

5.3 Shadow Analysis
June 2:00PM - 2:30PM



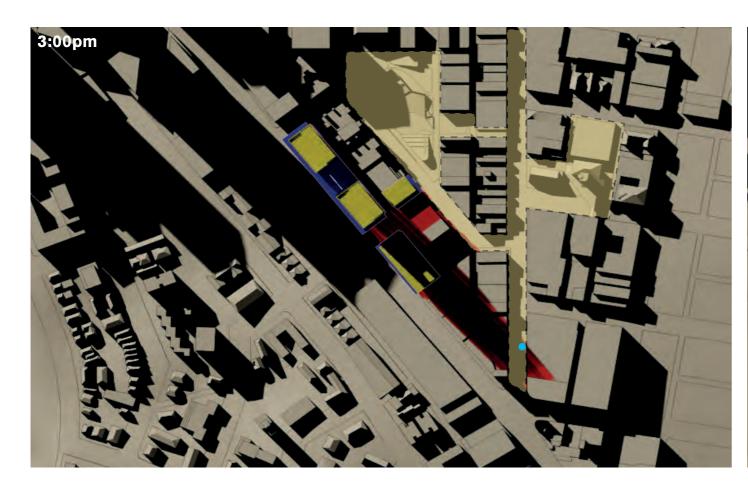


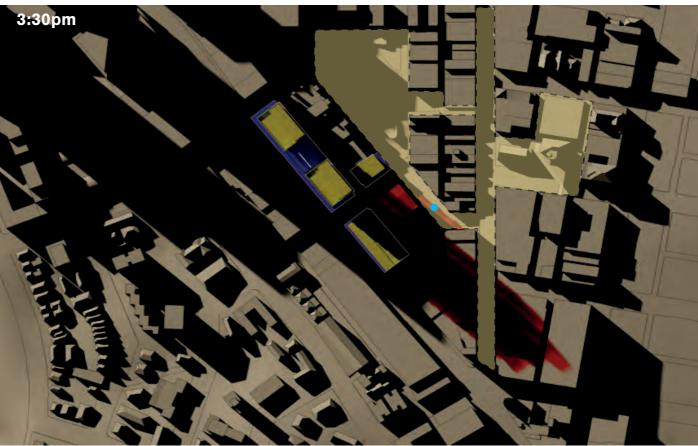
Existing Shadows
Proposed Buildings
Proposed Podium
Proposed Massing Shadow
Key Public areas
Overshadowing of Private Spaces
Overshadowing of Public Spaces



5.3 Shadow Analysis

June 3:00PM - 3:30PM

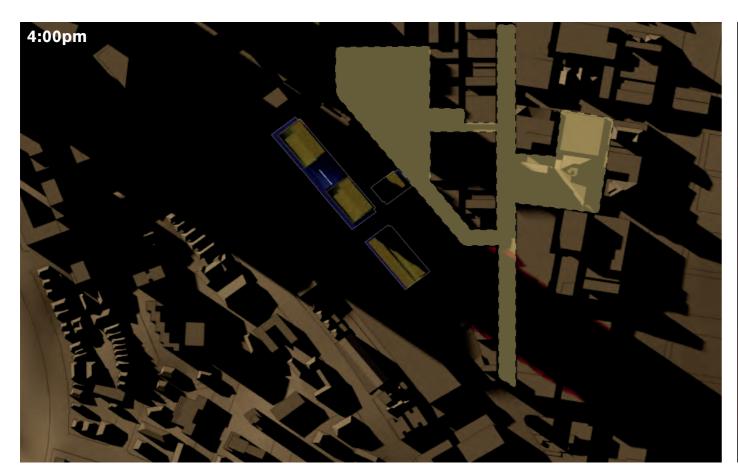




Some additional shading of the southern end of Willoughby road occurs after 3pm, though this is minor as much of the road is shaded by existing buildings

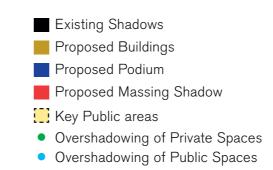
- Existing Shadows
- Proposed Buildings
- Proposed Podium
- Proposed Massing Shadow
- Key Public areas
- Overshadowing of Private Spaces
- Overshadowing of Public Spaces

5.3 Shadow Analysis
June 4:00PM -4:30PM





At 4:00pm the sun has set





5.3 Shadow Analysis
June 5:00PM



- Existing Shadows
- Proposed Buildings
- Proposed Podium
- Proposed Massing Shadow
- Key Public areas
- Overshadowing of Private Spaces
- Overshadowing of Public Spaces

5.0 SEPP 65 Analysis (Blank page)



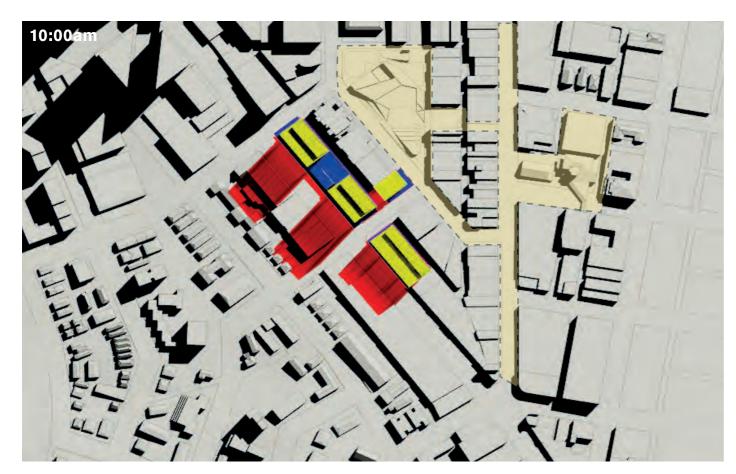
5.3 Shadow Analysis September 9:00AM - 9:30AM





- Existing Shadows
- Proposed Buildings
- Proposed Podium
- Proposed Massing Shadow
- Key Public areas
- Overshadowing of Private Spaces
- Overshadowing of Public Spaces

5.3 Shadow Analysis September 10:00AM - 10:30AM







Overshadowing of Public Spaces



5.3 Shadow Analysis September 11:00AM - 11:00AM

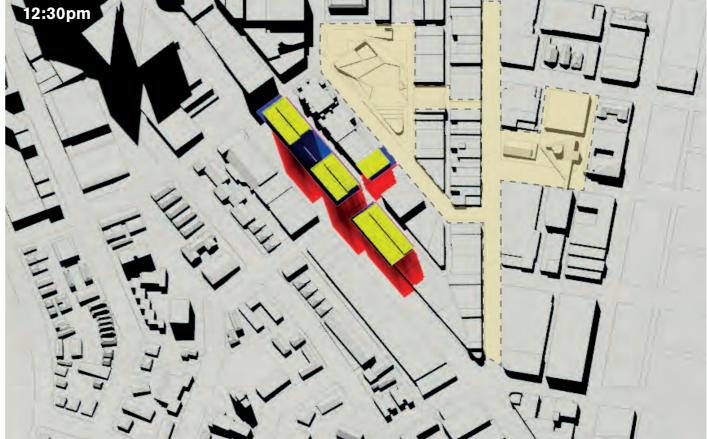




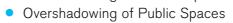
- Existing Shadows
- Proposed Buildings
- Proposed Podium
- Proposed Massing Shadow
- Key Public areas
- Overshadowing of Private Spaces
- Overshadowing of Public Spaces

5.3 Shadow Analysis September 12:00PM - 12:00PM





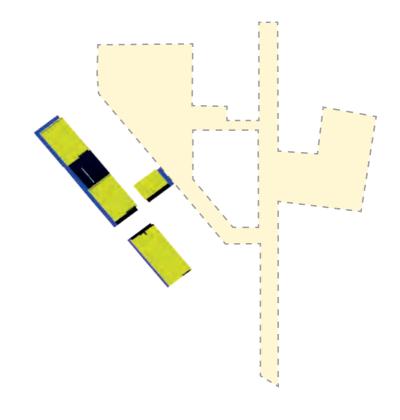






5.3 Shadow Analysis September 1:00PM - 1:30PM





- Existing Shadows
- Proposed Buildings
- Proposed Podium
- Proposed Massing Shadow
- Key Public areas
- Overshadowing of Private Spaces
- Overshadowing of Public Spaces

5.3 Shadow Analysis September 2:00PM - 2:30PM





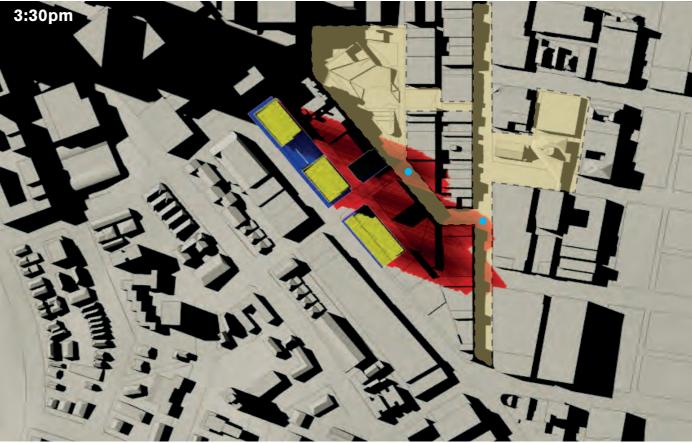


Overshadowing of Public Spaces



5.3 Shadow Analysis September 3:00PM - 3:30PM



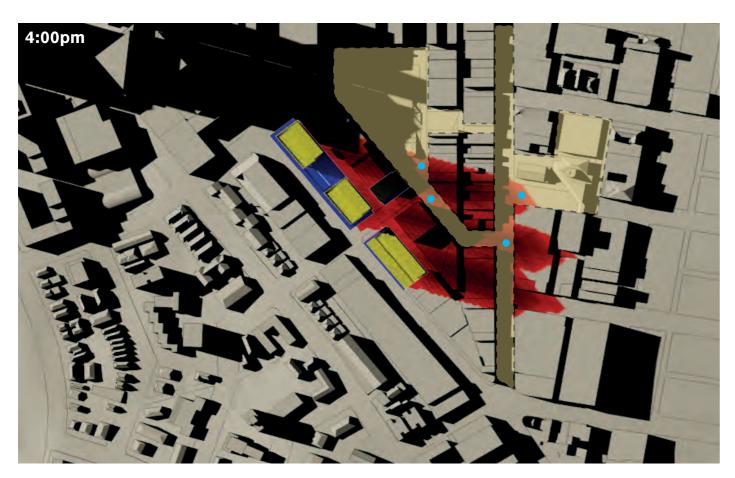


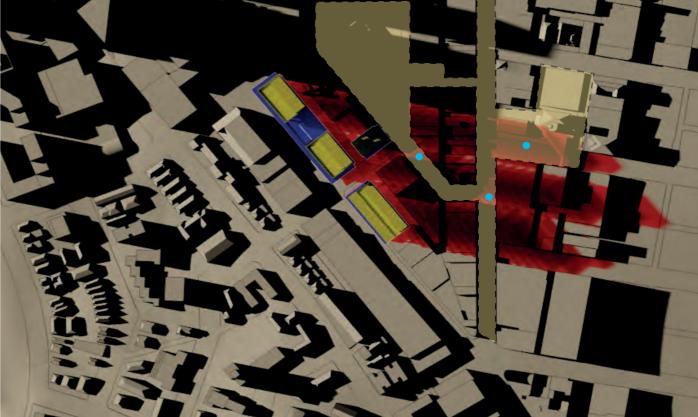
Some additional shading of the southern portion of Clarke Street occures from 3:00 pm.

Some additional shading of Willoughby Road occures from 3:30 pm.

- Existing Shadows
- Proposed Buildings
- Proposed Podium
- Proposed Massing Shadow
- Key Public areas
- Overshadowing of Private Spaces
- Overshadowing of Public Spaces

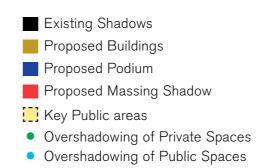
5.3 Shadow Analysis September 4:00PM -4:30PM





Some additional shading of Willoughby Road in the afternoon, however this area is already mostly Some additional shading of Willoughby Road and Ernest Place in the afternoon, though none of these overshadowed by the existing buildings.

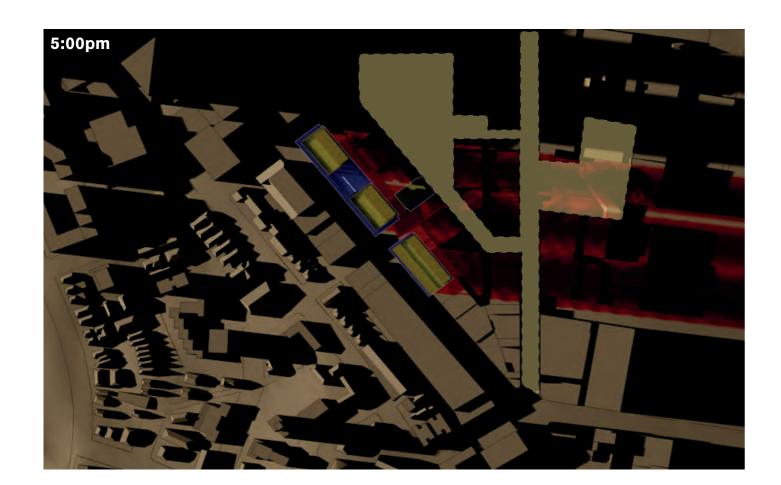
occasions are long enough to affect compliance.



4:30pm



5.3 Shadow Analysis September 5:00PM



- Existing Shadows
- Proposed Buildings
- Proposed Podium
- Proposed Massing Shadow
- Key Public areas
- Overshadowing of Private Spaces
- Overshadowing of Public Spaces

5.0 SEPP 65 Analysis (Blank page)



5.3 Shadow Analysis
December 9:00AM - 9:30AM



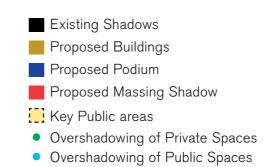


- Existing Shadows
- Proposed Buildings
- Proposed Podium
- Proposed Massing Shadow
- Key Public areas
- Overshadowing of Private Spaces
- Overshadowing of Public Spaces

5.3 Shadow Analysis
December 10:30AM - 10:30AM











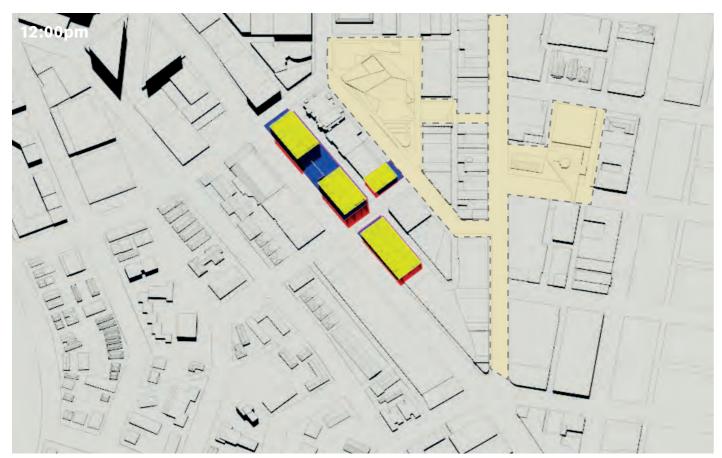
5.3 Shadow Analysis
December 11:00AM - 11:30AM



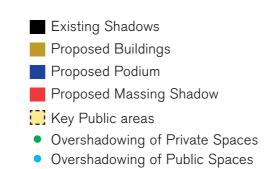


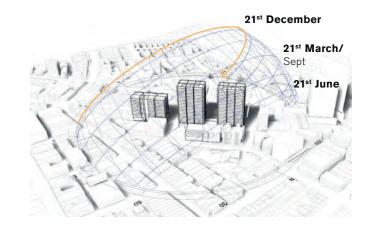
- Existing Shadows
- Proposed Buildings
- Proposed Podium
- Proposed Massing Shadow
- Key Public areas
- Overshadowing of Private Spaces
- Overshadowing of Public Spaces

5.3 Shadow Analysis
December 12:00PM - 12:30PM











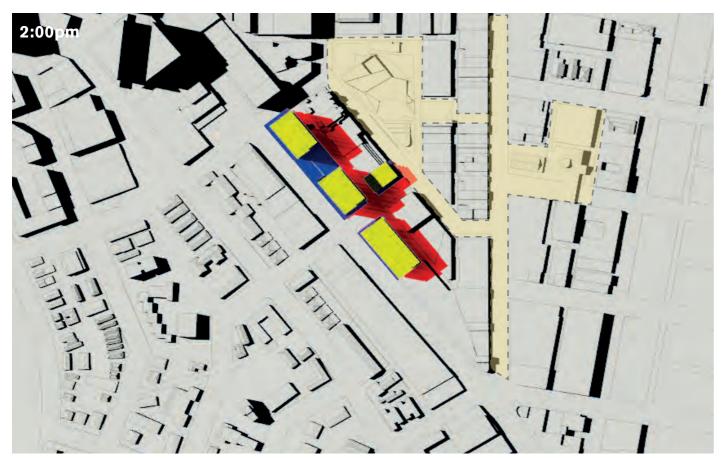
5.3 Shadow Analysis
December 1:00PM - 1:30PM



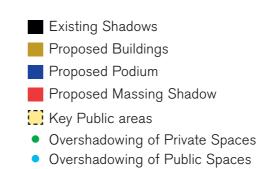


- Existing Shadows
- Proposed Buildings
- Proposed Podium
- Proposed Massing Shadow
- Key Public areas
- Overshadowing of Private Spaces
- Overshadowing of Public Spaces

5.3 Shadow Analysis
December 2:00PM - 2:30PM









5.3 Shadow Analysis
December 3:00PM - 3:30PM



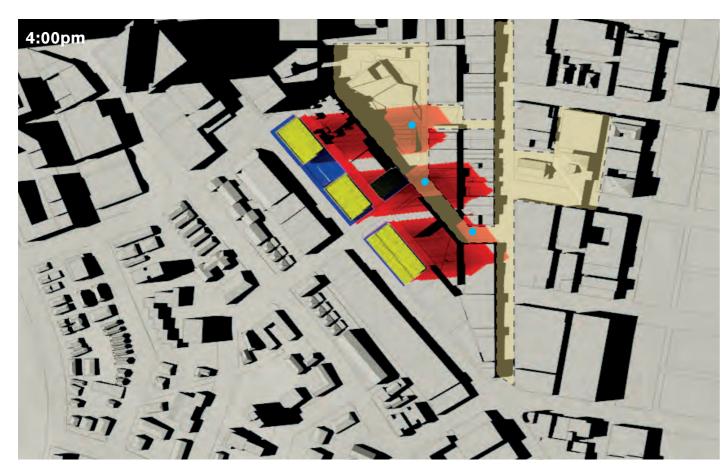


Some additional shading of the southern portion of Clarke Street occures from 3:00 pm.

Some additional shading of Willoughby Road occures from 3:30 pm.

- Existing Shadows
- Proposed Buildings
- Proposed Podium
- Proposed Massing Shadow
- Key Public areas
- Overshadowing of Private Spaces
- Overshadowing of Public Spaces

5.3 Shadow Analysis
December 4:00PM - 4:30PM





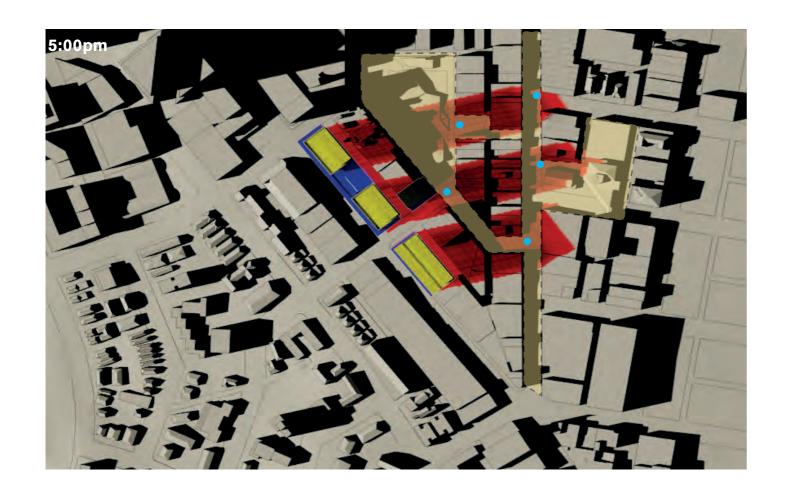


- Overshadowing of Private Spaces
- Overshadowing of Public Spaces





5.3 Shadow Analysis December 5:00PM



- Existing Shadows
- Proposed Buildings
- Proposed Podium
- Proposed Massing Shadow
- Key Public areas
- Overshadowing of Private Spaces
- Overshadowing of Public Spaces



Existing Scenario | Plan View Proposed Scenario | Plan View

Diffused Public Domain Luminosity

A diffused public domain luminosity analysis has been carried out to assess the impact of the proposed development on the daylight available at the surrounding public spaces. The following roads have been assessed:

- 1. Pacific Highway;
- 2. Clarke Lane
- 3. Clarke Street;
- 4. Oxley Street;
- 5. Hume Street.

The analysis has been carried out for the baseline and the proposed scenario, the model includes all existing buildings and in the correct orientation and geolocation. The simulation has been carried out considering a diffused sky with specialist modelling software.

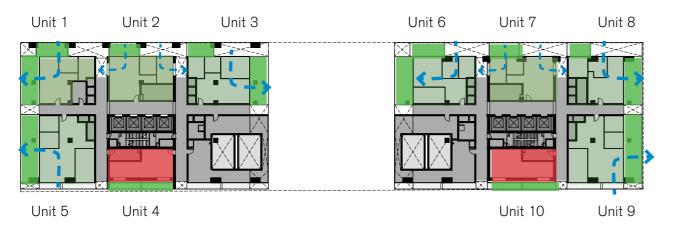
The results indicate that the proposed development will reduce the luminosity available to the surrounding streets.

Clarke Lane will be the most impacted due to its size and the proximity between the proposed and the existing buildings. Pacific Highway, Clarke Street, Oxley Street and Hume Street will be affected at a lesser degree.





5.5 Natural Ventilation Analysis



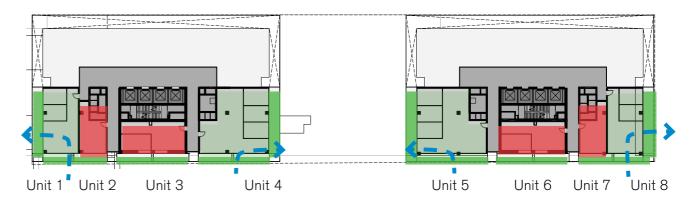
Floor Plan-Level 06 - 10 Units



Floor Plan-Level 07/08 - 14 Units



Floor Plan-Level 09-25 - 16 Units



Floor Plan-Level 26 - 8 Units



NWRLSRT-MET-SCN-AT-REP-000011 | P02

- 4B-3 The number of apartments with natural cross ventialtion is maximised to create a comfortable indoor environment for residents.
- 1a. ≥60% of apartments are naturally cross ventilated in the first nine storeys of the buildings; and 67% of the apartments at floors 6-9 have operable windows on double aspects and are therefore cross ventilated.
- 1b. Aparments at ten storeys or greater are deemed to be crossed ventilated only if any enclosure of the balconies at these levels allows adequate natural ventilation and cannot be fully enclosed.

 All apartments have balconies which allow adequate natural ventilation.

Crossed ventilated apartments

- Path of cross ventilation

Balconies

Single-aspect apartments

65 IVIETROIN

5.0 SEPP 65 Analysis (Blank Page)

