

Shadow Analysis

5



This copied document is made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach copyright legislation

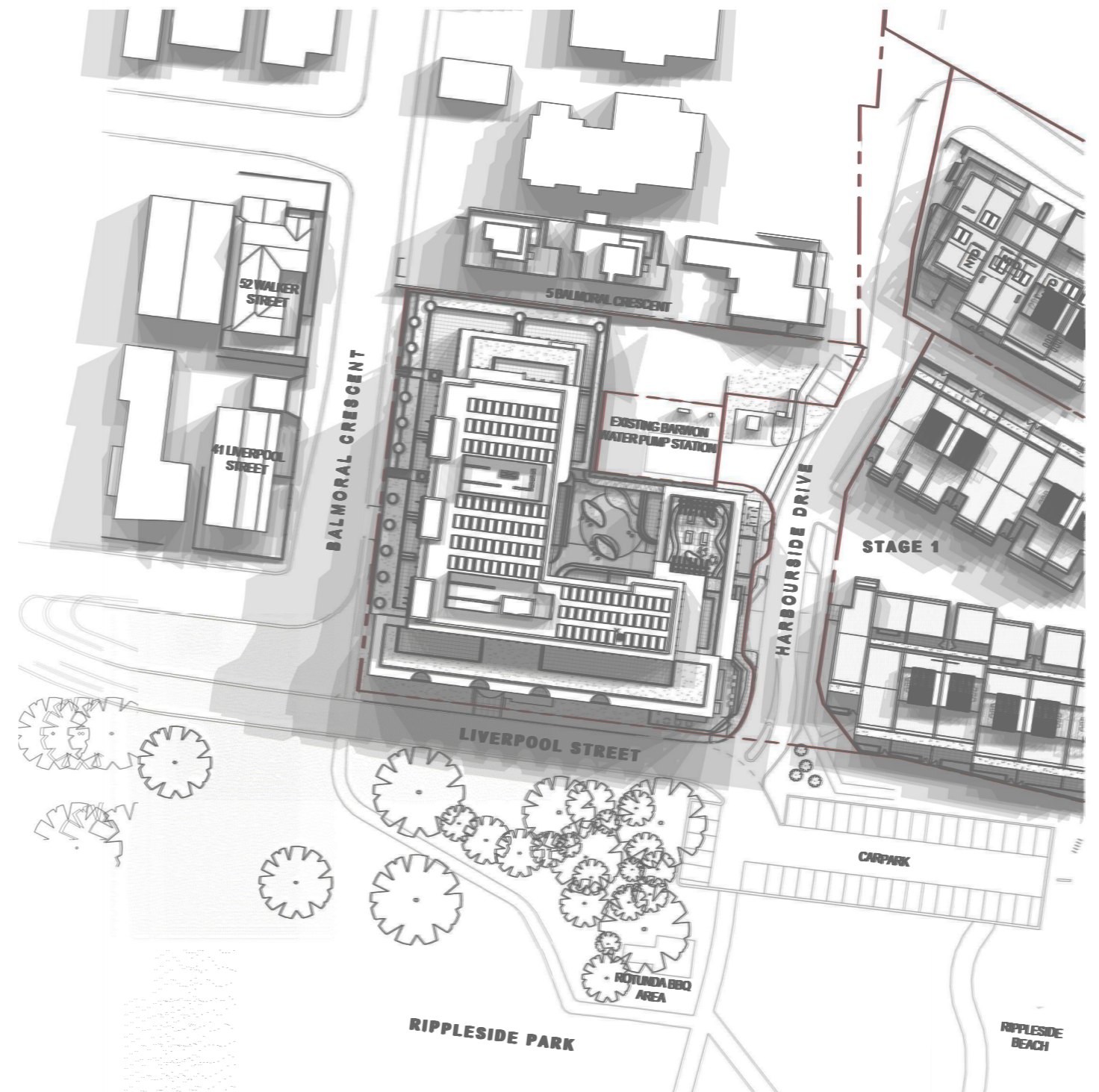
Shadow Analysis

5.1 Shadows to Open Space

An analysis of shadows cast throughout the day illustrates that the shadows only cause a minor impact on the open space to the south (Rippleside Park).

The shadow diagram opposite shows a cumulative shadow through 9am to 3pm on the Equinox. Existing trees continue to receive sunlight throughout the day.

Individual shadow diagrams are also contained within the documentation.

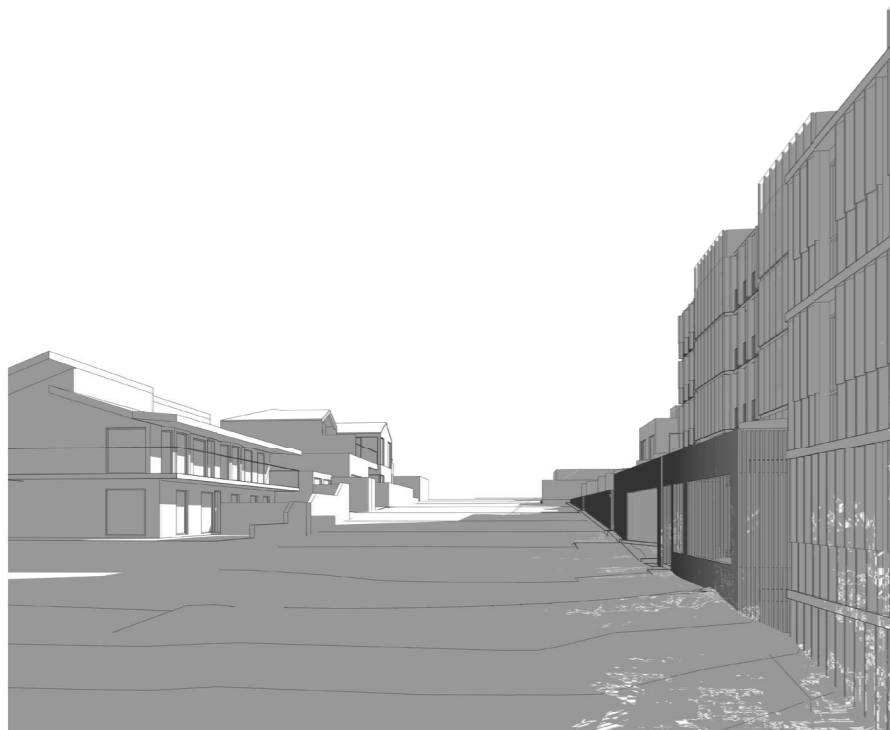


Shadow Analysis

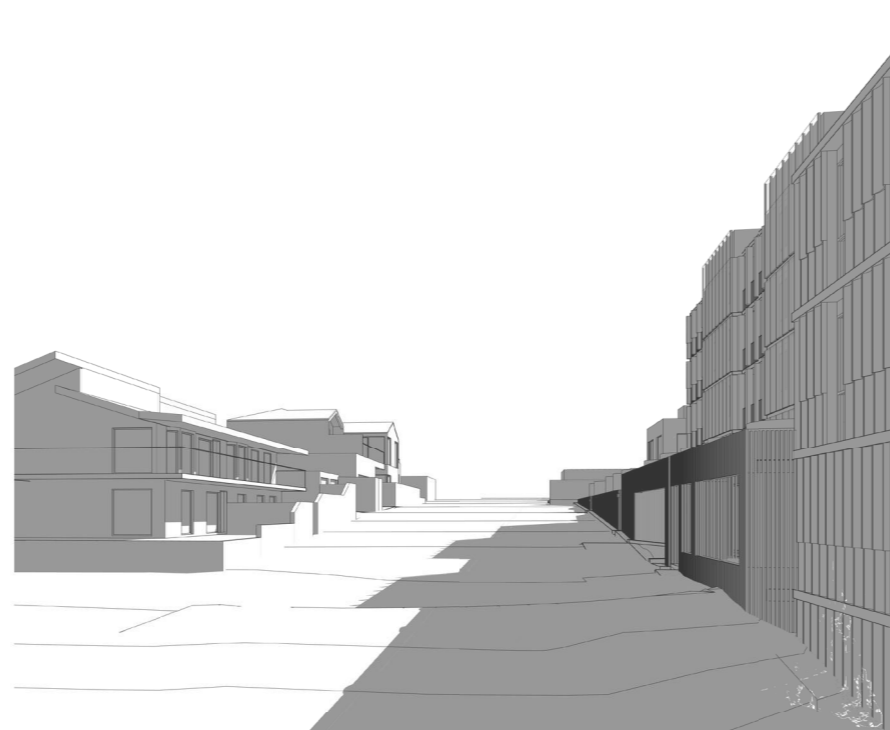
This copied document is made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Environment Act 1987. The document must not be used for any purpose which may breach copyright legislation

5.2 Shadows to Adjacent Properties

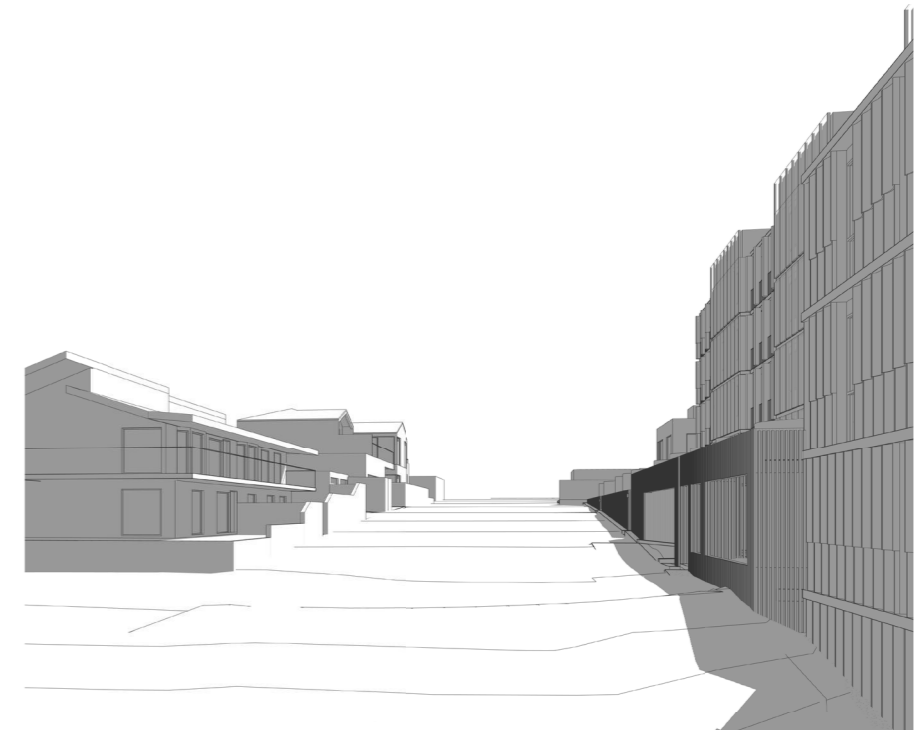
The 3 dimensional shadow diagrams opposite shows the shadows cast to the west of the site. The diagrams reveal that shadows fall to the front fence line of the adjacent property at 41 Liverpool Street. All shadows are off the adjacent property before 10am.



1 BALMORAL CRESCENT 3D VIEW - EQUINOX 9AM
SCALE



2 BALMORAL CRESCENT 3D VIEW - EQUINOX 10AM
SCALE



3 BALMORAL CRESCENT 3D VIEW - EQUINOX 11AM
SCALE

Shadow Analysis

The diagrams below show shadows from built form at the winter solstice, the darkest day of the year.

Proposed Scheme - Winter Solstice

5.3 Context shadow diagram - 9am



5.4 Context shadow diagram - 10am



5.5 Context shadow diagram - 11am



5.6 Context shadow diagram - 12pm



Shadow Analysis

The diagrams below show shadows from built form at the winter solstice, the darkest day of the year.

Proposed Scheme - Winter Solstice

5.7 Context shadow diagram - 1pm



5.8 Context shadow diagram - 2pm



5.9 Context shadow diagram - 3pm



Shadow Analysis

The diagrams below show shadows from built form at the winter solstice, the darkest day of the year.

Previously Approved (Building H) - Winter Solstice

5.10 Context shadow diagram - 9am



5.11 Context shadow diagram - 10am



5.12 Context shadow diagram - 11am



5.13 Context shadow diagram - 12pm



Shadow Analysis

The diagrams below show shadows from built form at the winter solstice, the darkest day of the year.

Previously Approved (Building H) - Winter Solstice

5.14 Context shadow diagram - 1pm



5.15 Context shadow diagram - 2pm



5.16 Context shadow diagram - 3pm



Shadow Analysis

Legend:

- Shadows cast by submitted scheme
- Shadows cast by previous scheme (Building H)

5.17 Shadow Diagrams - 22 Sept

9am



10am



11am



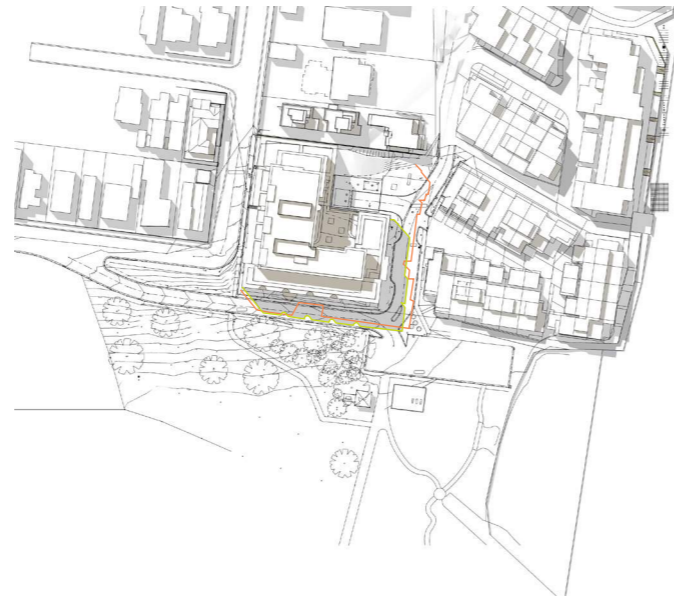
12pm



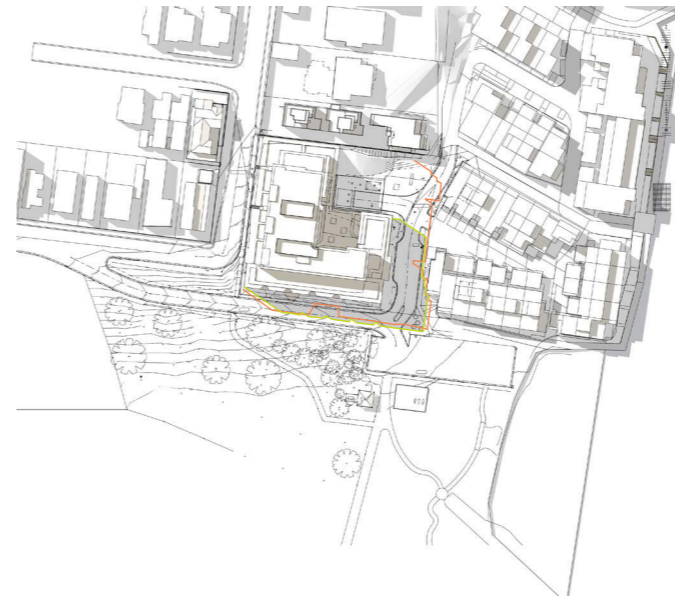
1pm



2pm



3pm



Shadow Analysis

Legend:

— Shadows cast by proposed scheme

5.18 Shadow Diagrams - 22 June (Proposed scheme)

9am



Areas:
Submitted scheme: 5,673m²
Amended scheme: 5,362m²
5% reduction

10am



Areas:
Submitted scheme: 2,777m²
Amended scheme: 2,502m²
10% reduction

11am



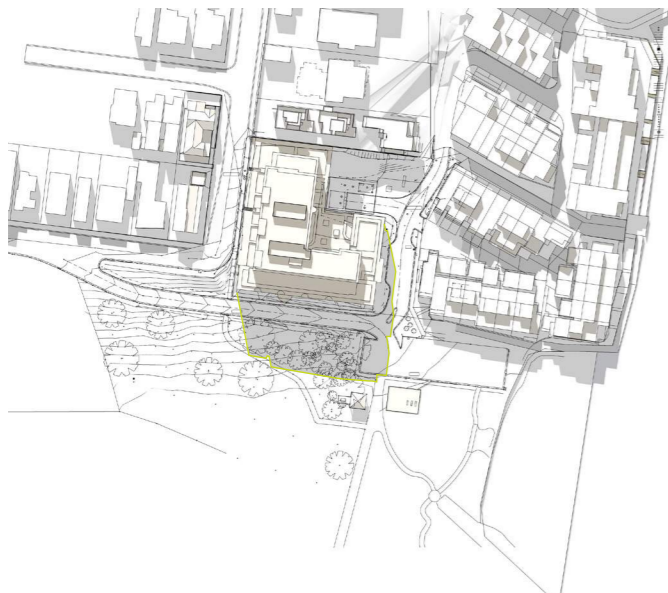
Areas:
Submitted scheme: 1,908m²
Amended scheme: 1,605m²
16% reduction

12noon



Areas:
Submitted scheme: 1,562m²
Amended scheme: 1,261m²
19% reduction

1pm



Areas:
Submitted scheme: 1,401m²
Amended scheme: 1,091m²
22% reduction

2pm



Areas:
Submitted scheme: 1,376m²
Amended scheme: 1,053m²
23% reduction

3pm



Areas:
Submitted scheme: 1,656m²
Amended scheme: 1,244m²
25% reduction

Shadow Analysis

5.19 Shadow Diagrams - 22 December (Proposed scheme)

9am



10am



11am



12pm



1pm



2pm



3pm

