

# WESTMEAD SOUTH

Precinct shadow diagrams





# Precinct-wide solar access - winter solstice

The diagrams adjacent describe the potential overshadowing impact at a precinct scale across the winter solstice (June 21), based on the master plan. Indicative built form has been modelled across the area, as such the diagrams represent the cumulative impact if all sites were to be developed.

Generally the master plan has a minimal impact on existing key open spaces, including MJ Bennett Reserve, Austral Avenue Reserve and Mays Hill Precinct. The area with the most overshadowing impact is Sydney Smith Park, however this does not affect the existing soccer field for most of the day and has a minor impact on the existing playground.

New open space particularly on the Metro block, Oakes Centre plaza and the proposed park at Alexandra Avenue are able to achieve good solar access throughout the day (generally north-facing). The open spaces on the Metro block achieve good solar access (at least 50% of the open space area) between 9am-2pm, the Oakes Centre plaza between 9am-1pm, and Alexandra Avenue Park between 10am-2pm.

Westmead Public School is located to the north of the precinct. There may be minor overshadowing to the existing outdoor courts within the school grounds located on Moree Avenue between approximately 9-9.30am. Part of the school buildings to the north along Grand Avenue, primarily consisting of demountables, are overshadowed at different times through the day. The other outdoor spaces within the school grounds are not impacted.

Most streets remain sunny during the day. The area with the greatest impact is at the northwest of the precinct and at the northern end of Hawkesbury Road where the highest density is proposed. Further solar analysis would be required on a site by site basis at DA stage to understand the solar impact in more detail.



9am June 21 (Winter)



10am June 21 (Winter)



11am June 21 (Winter)



12pm June 21 (Winter)



1pm June 21 (Winter)



2pm June 21 (Winter)



3pm June 21 (Winter)

- Legend
- Precinct boundary
  - Existing major open spaces
  - Proposed new open spaces
  - Westmead Public School



# Precinct-wide solar access - spring equinox

The diagrams adjacent describe potential overshadowing impact at a precinct scale across the spring equinox (September 21), based on the master plan. Indicative built form has been modelled across the area, as such the diagrams represent the cumulative impact if all sites were to be developed.

Generally, there is improved solar access to new and existing open spaces and streets due to the time of year. MJ Bennett Reserve, Austral Avenue Reserve, Sydney Smith Park and Mays Hill Precinct all receive almost full solar access between 9am and 3pm. The new open spaces on the Metro block are only minimally overshadowed from 2pm. Similarly, the potential Oakes Centre plaza receives minor overshadowing impacts after 2pm. The new Alexandra Avenue Park receives at least 50% of sun access between 11am and 2pm.

There is no additional overshadowing impact on the grounds and outdoor spaces of Westmead Public School. There is minor impact at the northern edge along Austral Avenue, predominantly to the existing landscape setback and to a small part of the demountables.

Further solar analysis would be required on a site by site basis at DA stage to understand the solar impact in more detail.



9am September 21 (Spring)



10am September 21 (Spring)



11am September 21 (Spring)



12pm September 21 (Spring)



1pm September 21 (Spring)



2pm September 21 (Spring)



3pm September 21 (Spring)

- Legend
- Precinct boundary
  - Existing major open spaces
  - Proposed new open spaces
  - Westmead Public School



# Precinct-wide solar access - summer solstice

The diagrams adjacent describe the potential overshadowing impact at a precinct scale across the summer solstice (December 21), based on the master plan. Indicative built form has been modelled across the area, as such the diagrams represent the cumulative impact if all sites were to be developed.

Generally, there is little overshadowing impact across the precinct given the time of year.

The key existing open spaces including MJ Bennett Reserve, Austral Avenue Reserve, Sydney Smith Park and Mays Hill Precinct are in full sun.

The new open spaces on the Metro block, the Oakes Centre plaza and Alexandra Avenue Park achieve good solar access (at least 50% of the open space area) throughout the day.

There is no additional overshadowing impact on Westmead Public School.

Further solar analysis would be required on a site by site basis at DA stage to understand the solar impact in more detail.



9am December 21 (Summer)



10am December 21 (Summer)



11am December 21 (Summer)



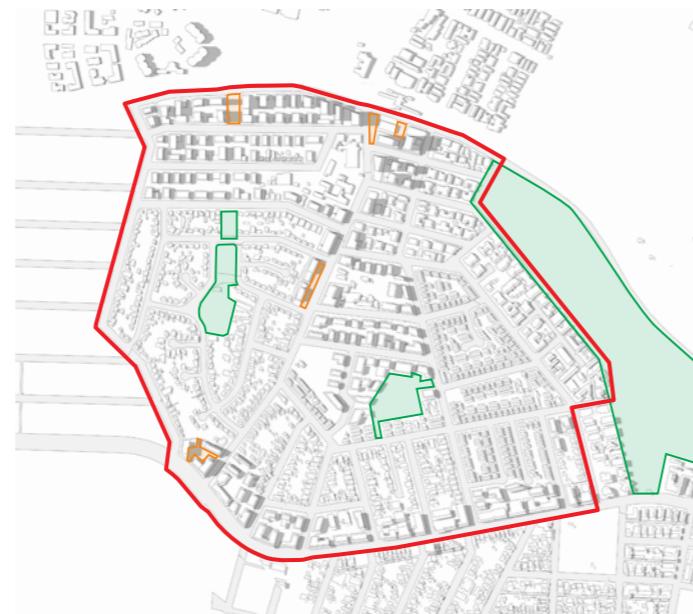
12pm December 21 (Summer)



1pm December 21 (Summer)



2pm December 21 (Summer)



3pm December 21 (Summer)

- Legend
- Precinct boundary
  - Existing major open spaces
  - Proposed new open spaces
  - Westmead Public School

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