

SHADOW ANALYSIS

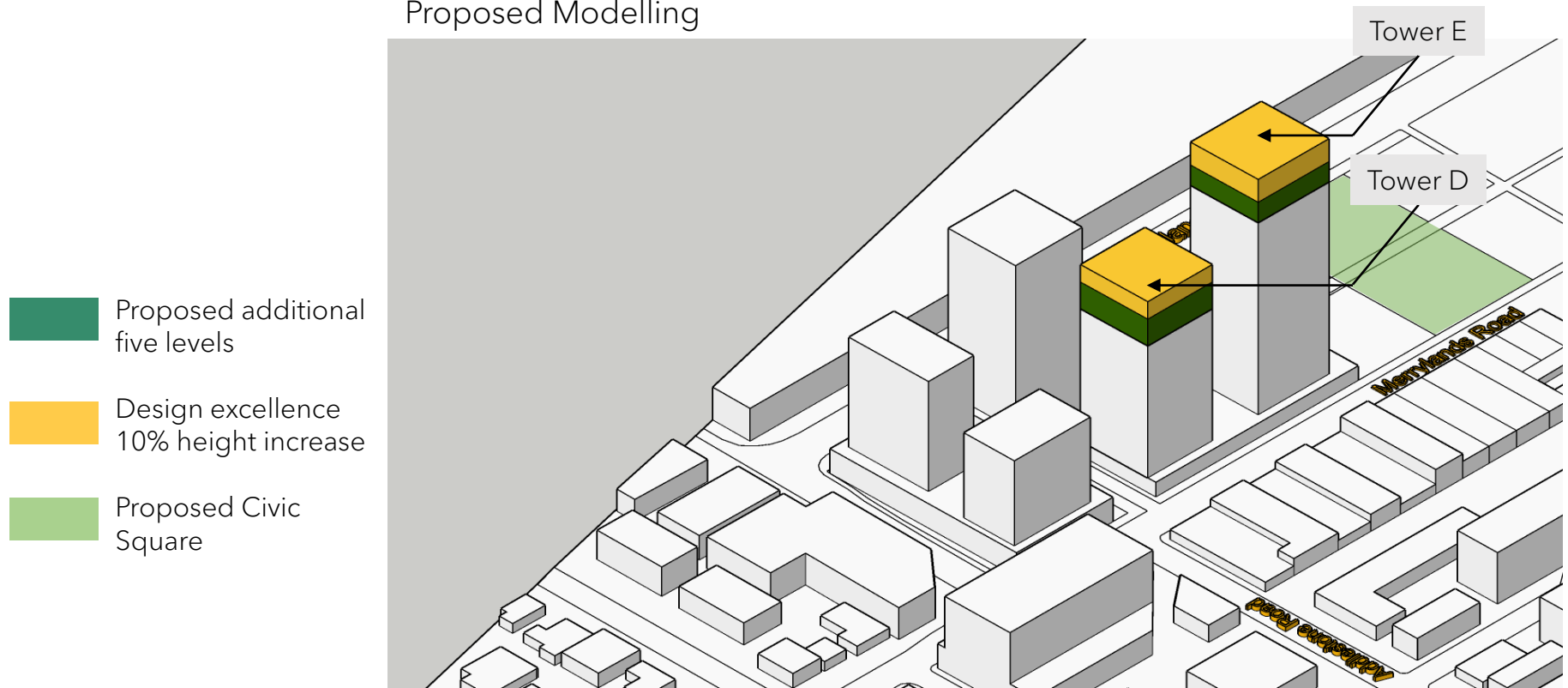
233-259 Merrylands Road & 54-59 McFarlane Street, Merrylands

Assumptions

- Setbacks from the 233-259 Merrylands Road & 54-59 McFarlane Street, Merrylands development application has been used in this shadow model.
- As outlined in the Cumberland DCP, a .5 metre road widening has been included along Merrylands Road.
- Lift shafts identified in the Development Application have been excluded from the shadow model.
- Single storey detached houses have a height of 4 metres.
- Residential apartments buildings have a ceiling height of 3 metres.
- Both Council and Merrylands RSL have an averaged building height of 4m.

Proposed Massing Model

Proposed Modelling



Shadow Analysis

Overshadow Diagram December 21 - 9am (Summer Solstice)



Shadow Analysis

Overshadow Diagram December 21 - 10am (Summer Solstice)



Shadow Analysis

Overshadow Diagram December 21 - 11am (Summer Solstice)



Shadow Analysis

Overshadow Diagram December 21 - 12pm (Summer Solstice)



Shadow Analysis

Overshadow Diagram December 21 - 1pm (Summer Solstice)



Shadow Analysis

Overshadow Diagram December 21 - 2pm (Summer Solstice)





Shadow Analysis

Overshadow Diagram December 21 - 3pm (Summer Solstice)



Shadow Analysis

Overshadow Diagram March 21 - 9am (Equinox)

-  Proposed additional five levels
-  Design excellence 10% height increase



Shadow Analysis

Overshadow Diagram March 21 - 10am (Equinox)



Shadow Analysis

Overshadow Diagram March 21 - 11am (Equinox)

- Proposed additional five levels
- Design excellence 10% height increase



Shadow Analysis

Overshadow Diagram March 21 - 12pm (Equinox)



Shadow Analysis

Overshadow Diagram March 21 - 1pm (Equinox)



Shadow Analysis

Overshadow Diagram March 21 - 2pm (Equinox)



Shadow Analysis

Overshadow Diagram March 21 - 3pm (Equinox)



Shadow Analysis

Overshadow Diagram June 21 - 9am (Winter Solstice)



Shadow Analysis

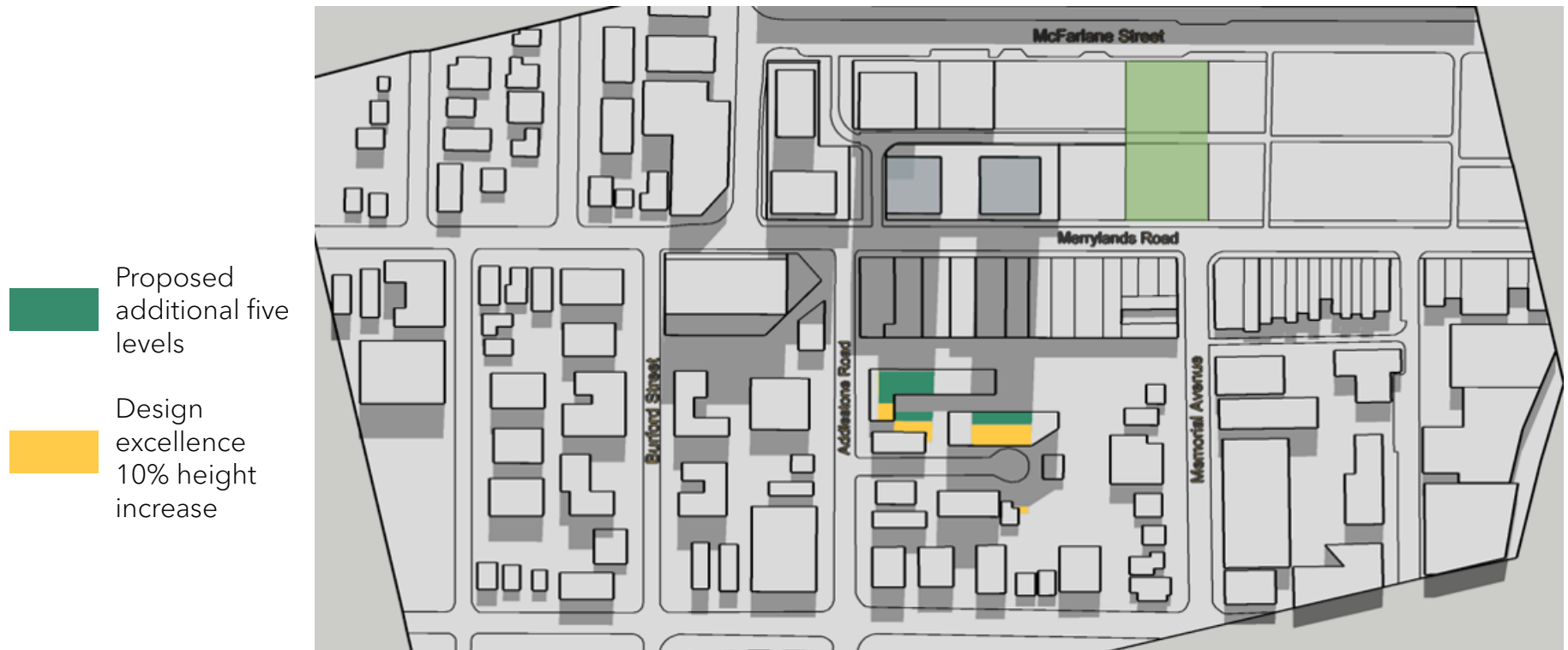
Overshadow Diagram June 21 - 10am (Winter Solstice)

- Proposed additional five levels
- Design excellence 10% height increase



Shadow Analysis

Overshadow Diagram June 21 - 11am (Winter Solstice)





Shadow Analysis

Overshadow Diagram June 21 - 12pm (Winter Solstice)



Shadow Analysis

Overshadow Diagram June 21 - 1pm (Winter Solstice)

-  Proposed additional five levels
-  Design excellence 10% height increase



Shadow Analysis

Overshadow Diagram June 21 - 2pm (Winter Solstice)



Shadow Analysis

Overshadow Diagram June 21 - 3pm (Winter Solstice)

- Proposed additional five levels
- Design excellence 10% height increase

