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# Appendix A.4

Shadows



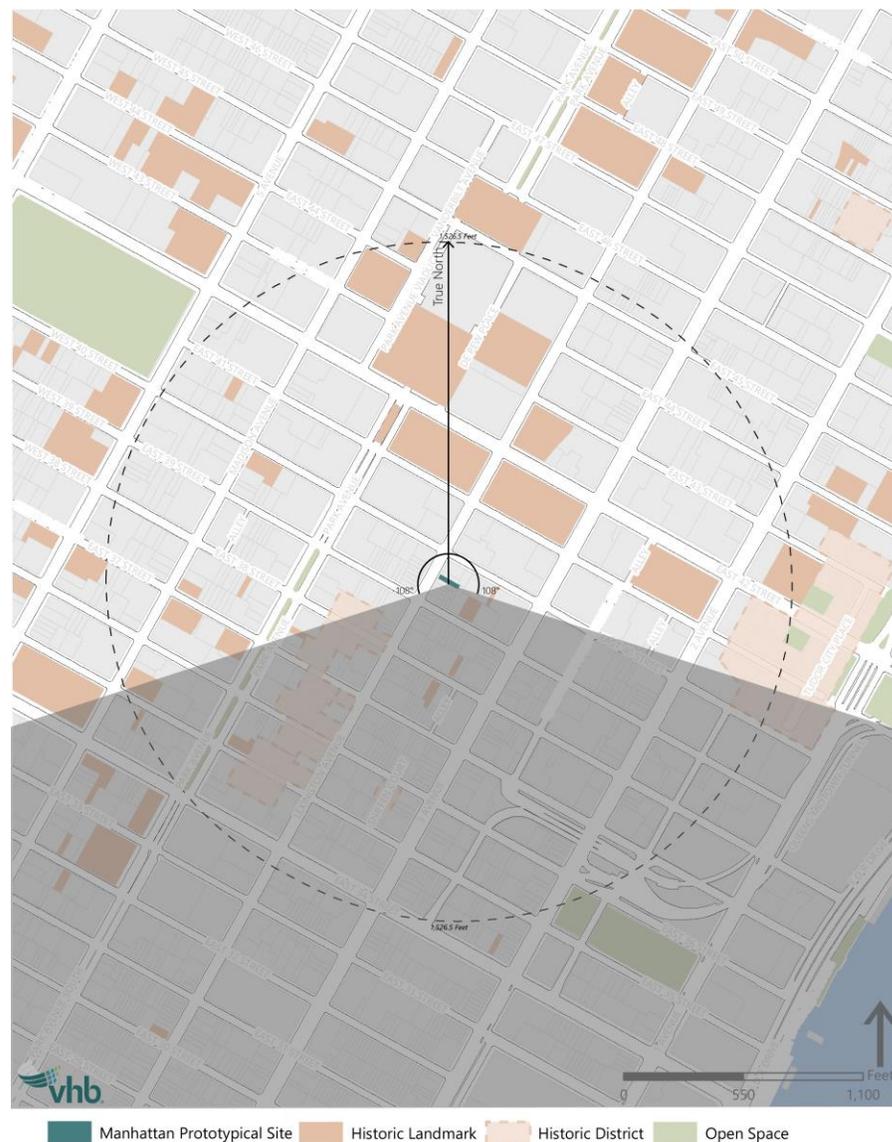
# Shadow Assessment

## Tier 1 and Tier 2 Screening Results

### Manhattan Prototypical Site

Under the With-Action condition, the prototypical site would be developed with a 355-foot-tall hotel. As depicted in **Figure A.4-1**, there are several sunlight-sensitive resources located within the shadow study area. As such, a Tier 3 screening was warranted.

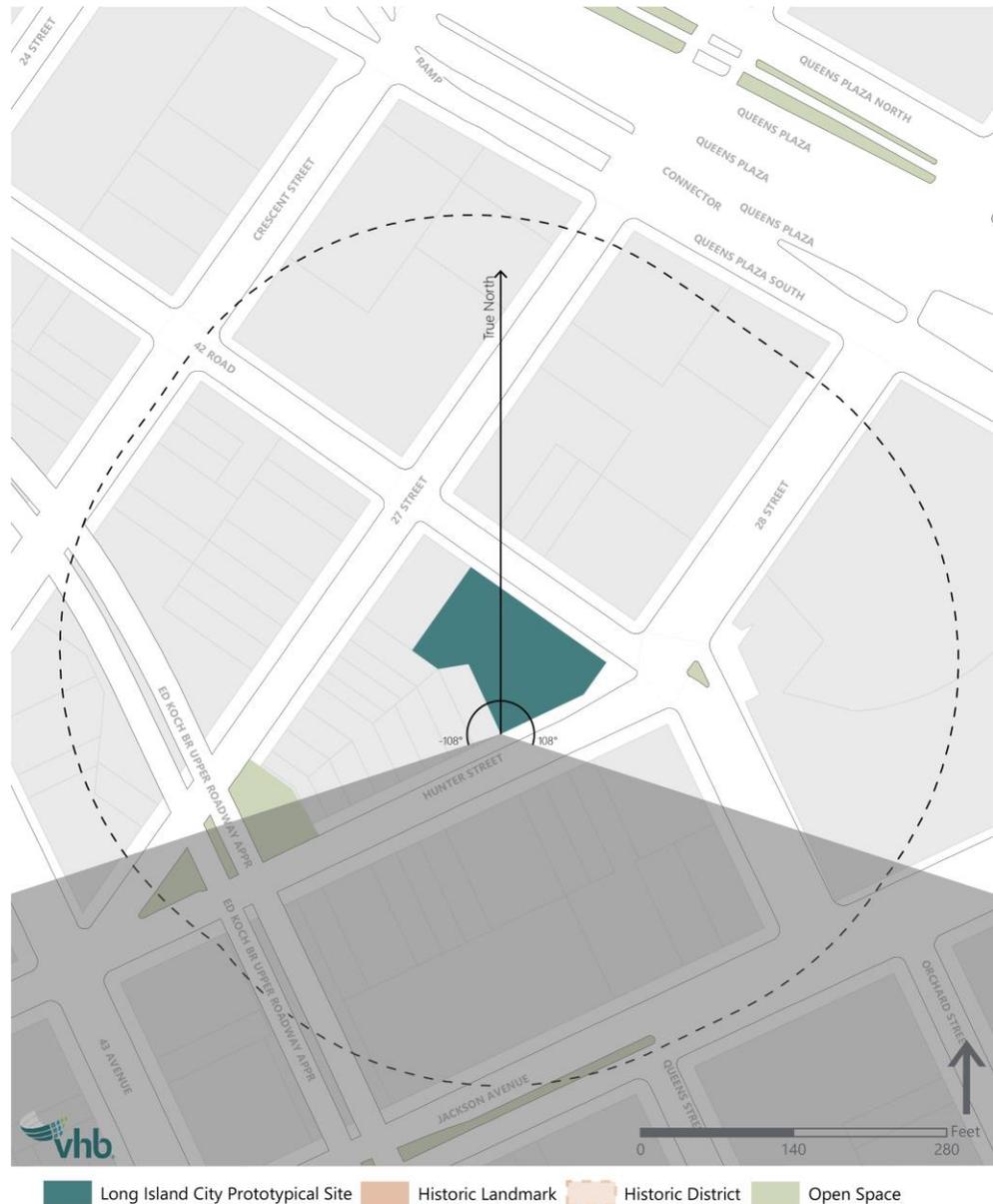
**Figure A.4-1 Tier 1 and 2 Analysis - Manhattan Prototypical Site**



### Long Island City Prototypical Site

The Proposed Action would result in the development of a 75-foot hotel at the Long Island City Prototypical Site. As shown in **Figure A.4-2**, there are two potential sunlight-sensitive resources located within the shadow study area, and portions of both open space resources are located in areas that could receive shadows cast from the prototypical site. As such, a Tier 3 screening was conducted.

**Figure A.4-2 Tier 1 and Tier 2 Analysis – Long Island City Prototypical Site**

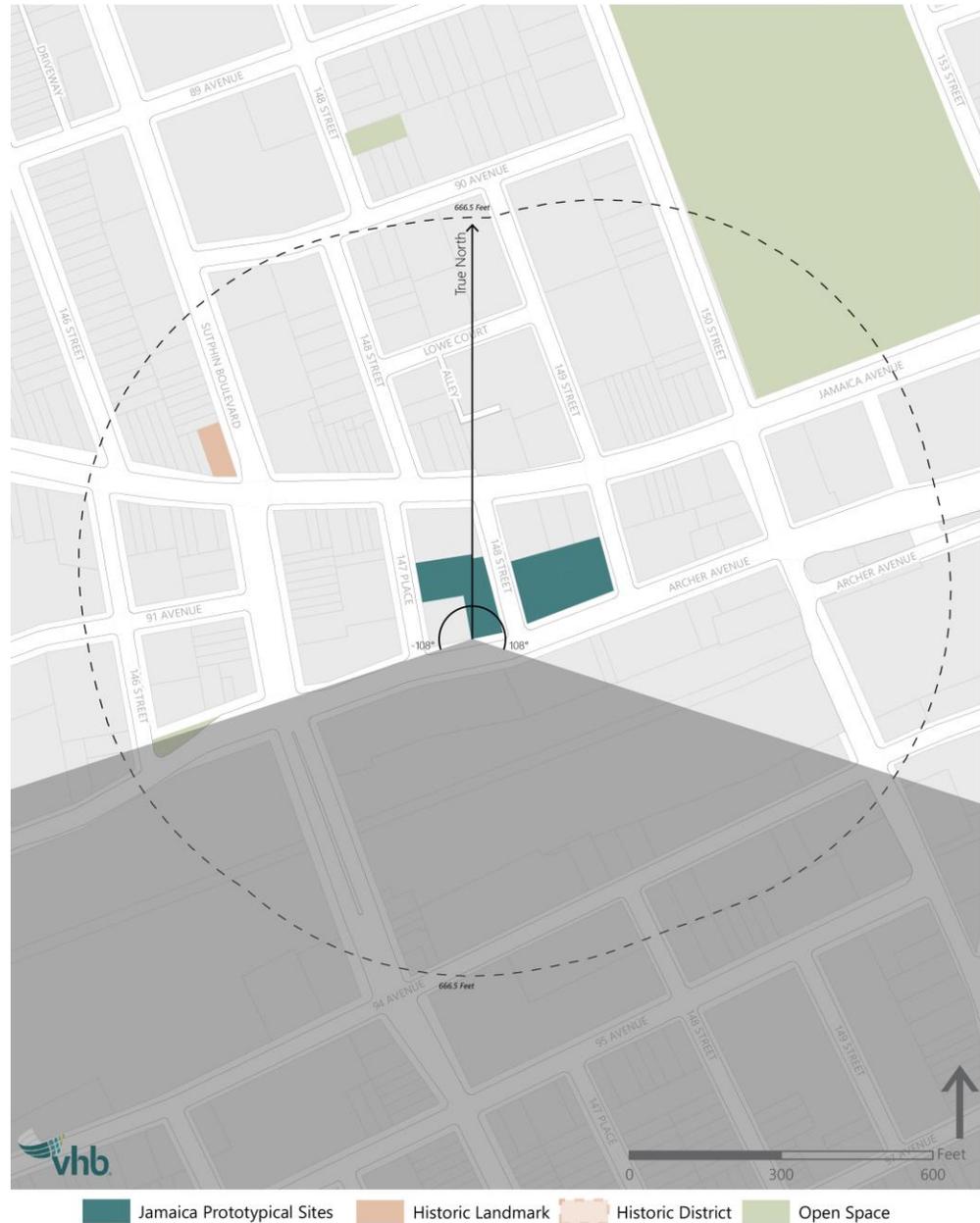


### Jamaica Prototypical Site

The With-Action condition would result in the development of three hotels at the Jamaica Prototypical Sites with heights of 125 to 155 feet. There are three sunlight-

sensitive resources located within the potential shadow sweep that could receive shadows from the prototypical sites (**Figure A.4-3**). Therefore, further analysis was needed.

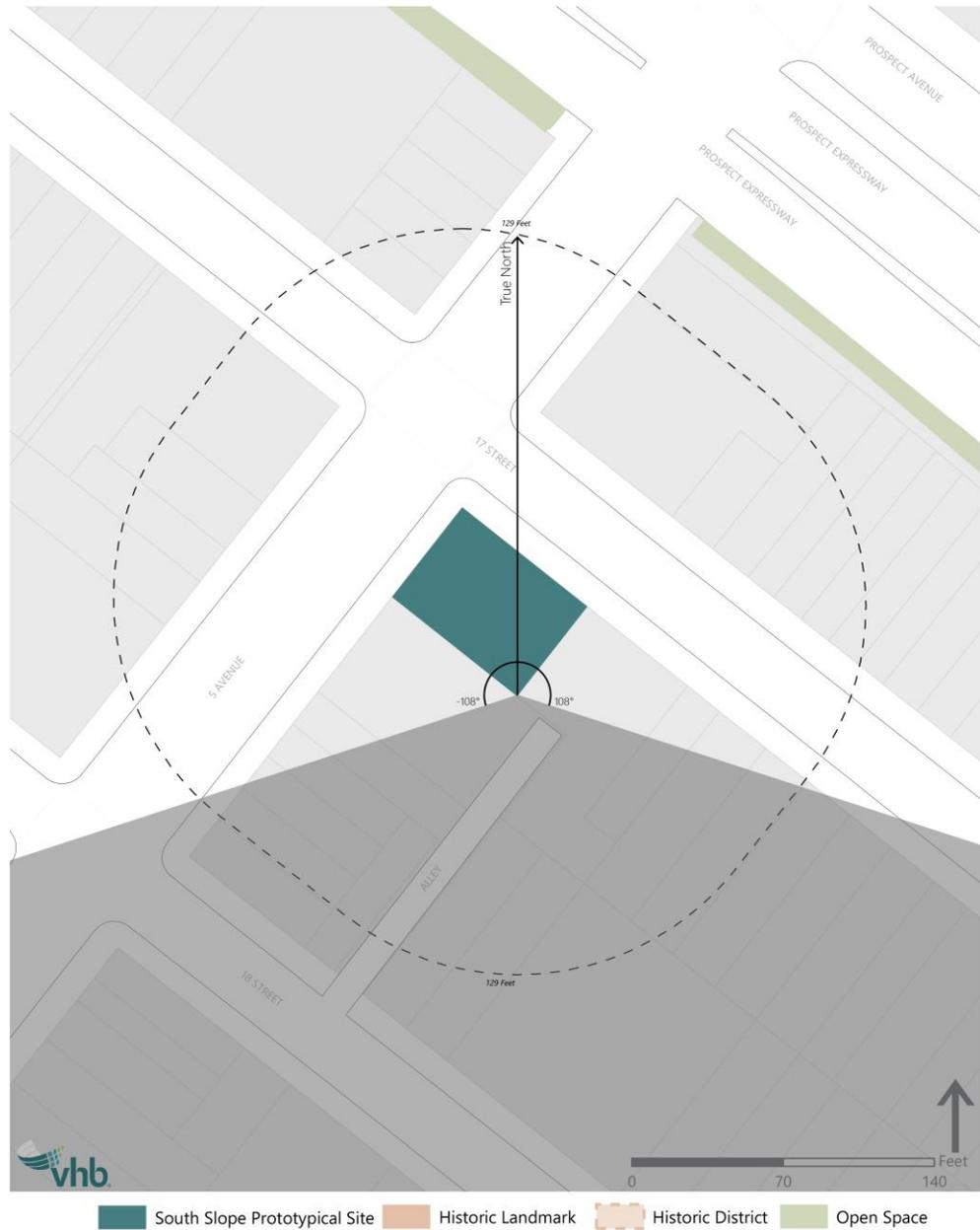
**Figure A.4-3 Tier 1 and 2 Analysis – Jamaica Prototypical Site**



### South Slope Prototypical Site

As stated previously, the Proposed Action would result in the development of a 30-foot hotel at the South Slope site. In addition, there are no sunlight-sensitive resources located within the shadow sweep (Figure 4). Therefore, shadows cast from the prototypical site would not result in adverse impacts to sunlight-sensitive resources and no further analysis was warranted.

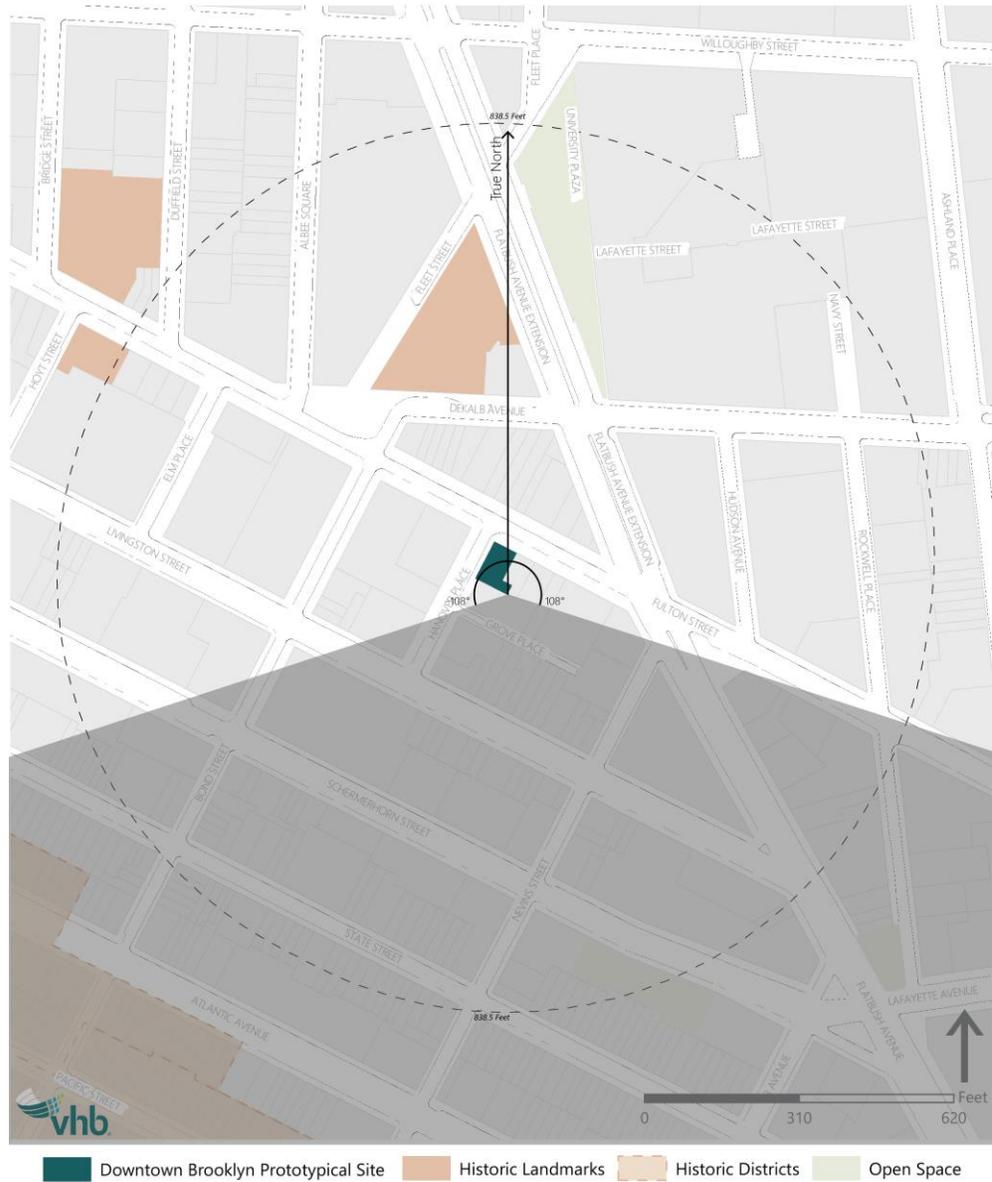
**Figure A.4-4 Tier and Tier 2 Analysis – South Slope Prototypical Site**



**Downtown Brooklyn Prototypical Site**

Under the With-Action condition, the prototypical site would be improved with a 195-foot-tall hotel. There are three sunlight-sensitive resources completely or partially located within the shadow screening radius that could receive shadows from the prototypical site (**Figure A.4-5**). As such, a Tier 3 analysis was warranted.

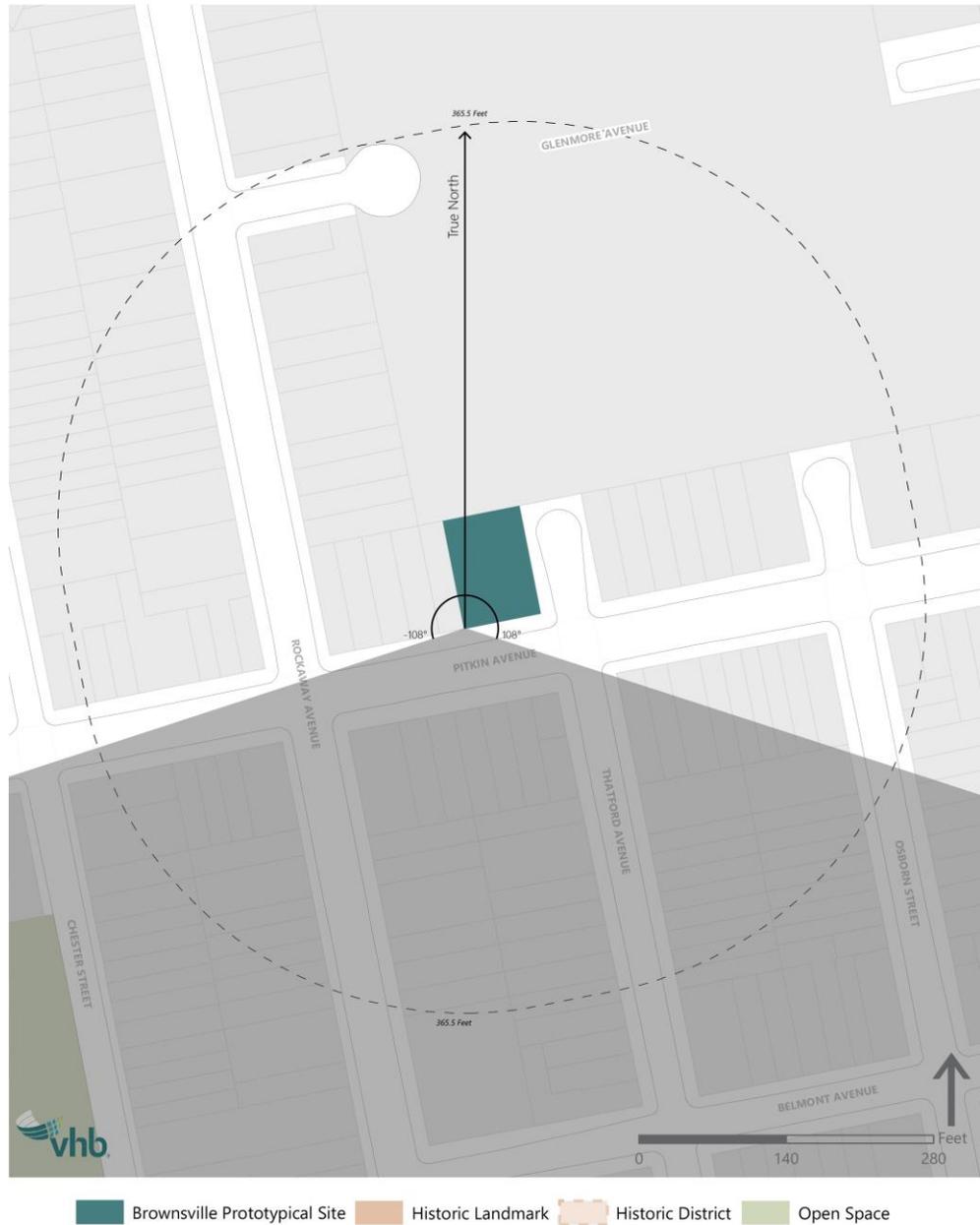
**Figure A.4-5 Tier 1 and Tier 2 Analysis – Downtown Brooklyn Prototypical Site**



**Brownsville Prototypical Site**

As described previously, there would be an 85-foot-tall hotel developed at the prototypical site in the With-Action condition. There are no sunlight-sensitive resources located within the shadow screening radius (**Figure A.4-6**). Shadows cast from the prototypical site would not result in adverse impacts to any sunlight-sensitive resources and, therefore, a Tier 3 analysis was not conducted.

**Figure A.4-6 Tier 1 and Tier 2 Analysis – Brownsville Prototypical Site**



### **Williamsburg Prototypical Site**

The Proposed Action would result in the development of a 55-foot-tall hotel at the Williamsburg Prototypical Site. As displayed in **Figure A.4-7**, there are no sunlight-sensitive resources located within the shadow screening radius. Shadows cast from the prototypical site would not result in adverse impacts and, as such, no further analysis was warranted.

**Figure A.4-7 Tier 1 and Tier 2 Analysis – Williamsburg Prototypical Site**

