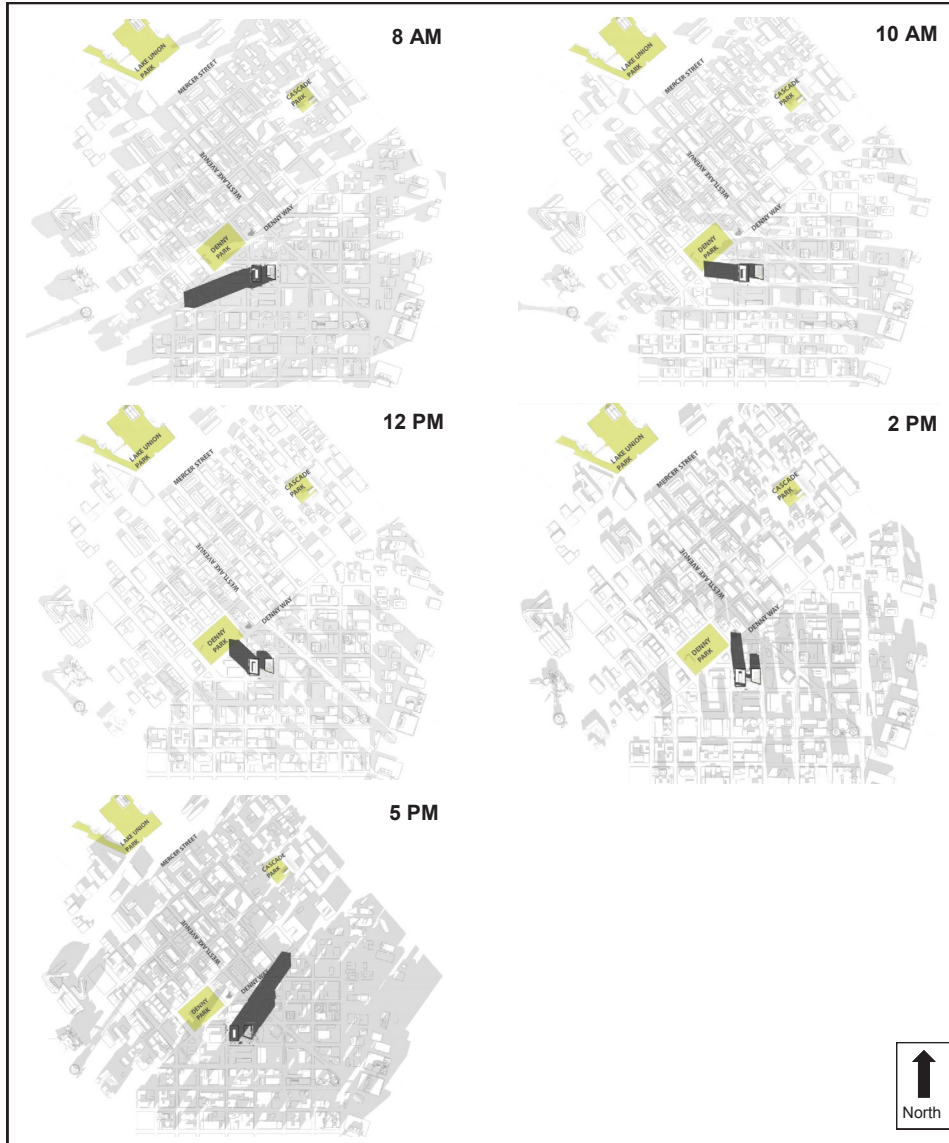


# SHADOW ANALYSIS



The petitioner looked at shadow impacts for the key dates of the solar year; the Vernal Equinox, Summer Solstice, Autumnal Equinox and the Winter Solstice, for both the Alley Vacation and No Alley Vacation alternative. For both alternatives there would be modest shading on Denny Park during the Vernal and Autumnal Equinox. No adverse shadow impacts would be expected during the Summer Solstice when highest use of the park would be expected. It should also be noted that Denny Park has nearly 100% tree canopy and therefore the park is largely shaded under existing conditions. The shadow impacts of the Alley Vacation and the No Alley Vacation alternatives are nearly identical all year.

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EIS Addendum



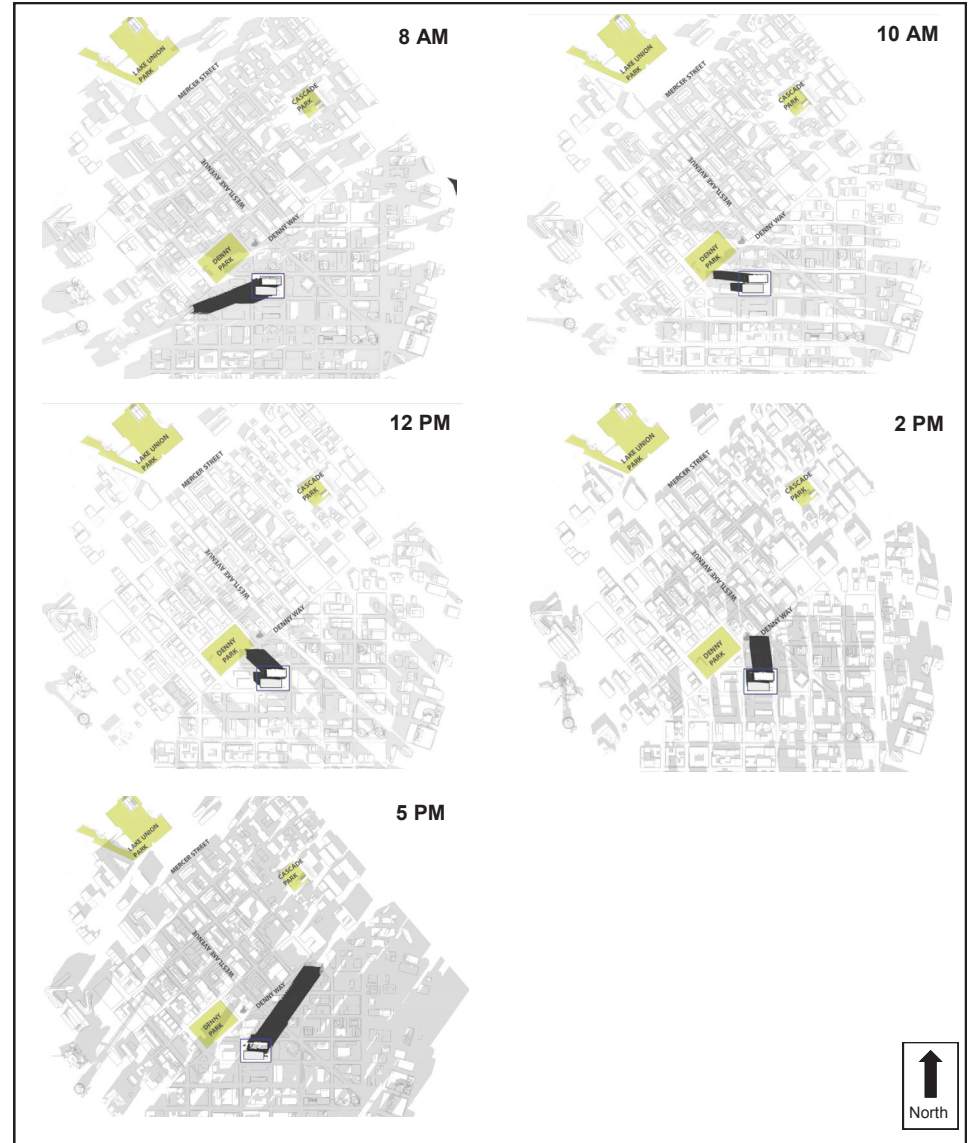
Source: Graphite Design Group, 2015



Figure 1

Vernal Equinox, March 21st—Shadows  
Alley Vacation Alternative

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Source: Graphite Design Group, 2015

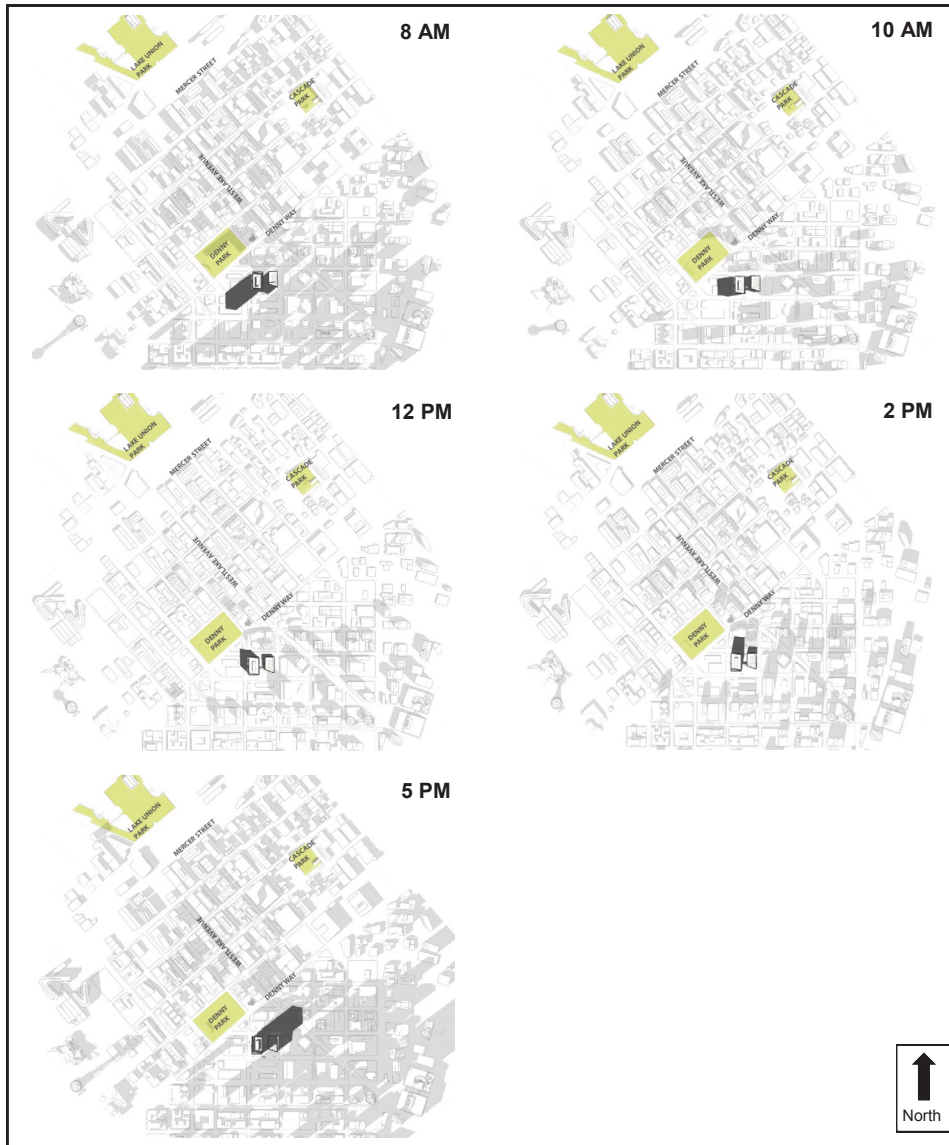


Figure 5

Vernal Equinox, March 21st—Shadows  
No Alley Vacation Alternative



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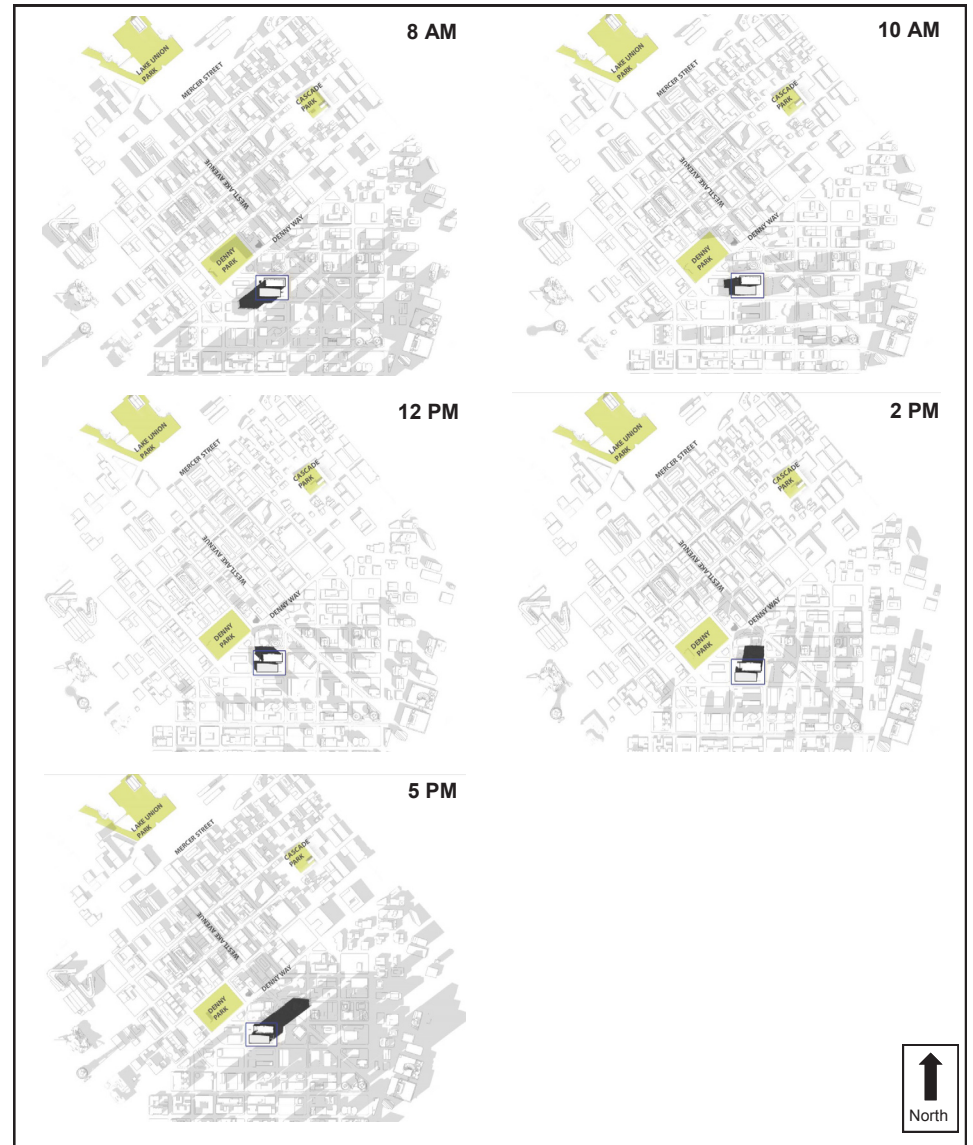
Source: Graphite Design Group, 2015



**Figure 2**

Summer Solstice, June 21st—Shadows  
Alley Vacation Alternative

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Source: Graphite Design Group, 2015



**Figure 6**

Summer Solstice, June 21st—Shadows  
No Alley Vacation Alternative

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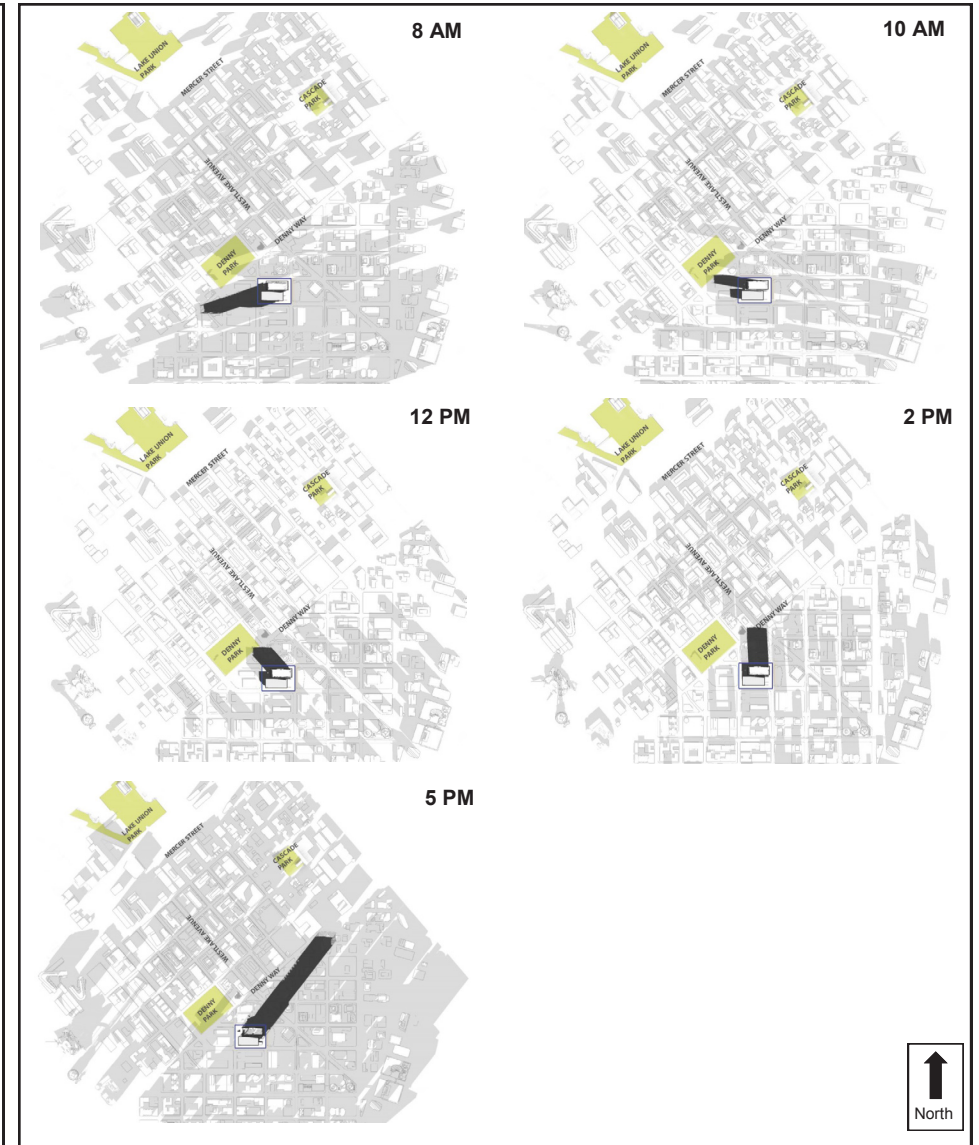
Source: Graphite Design Group, 2015



Figure 3

Autumnal Equinox, September 21st—Shadows  
Alley Vacation Alternative

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Source: Graphite Design Group, 2015

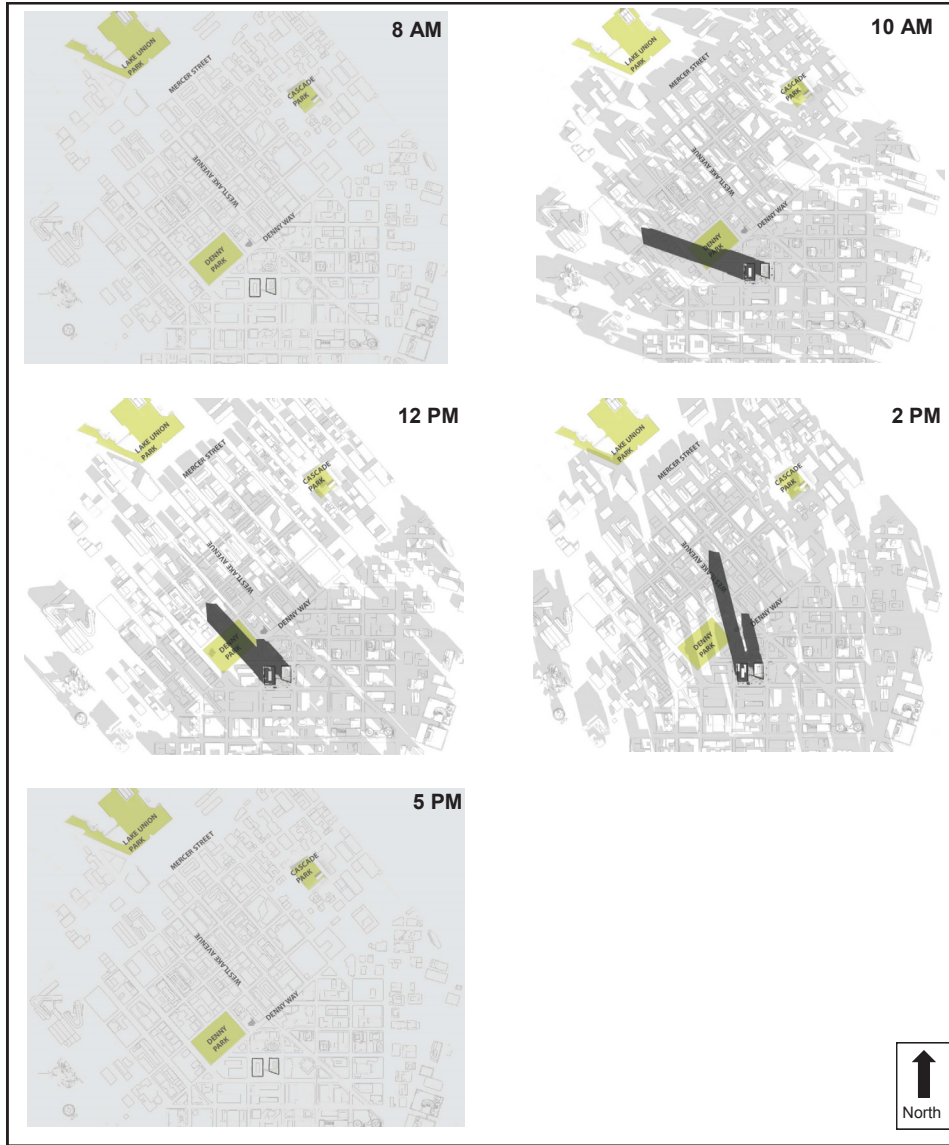


Figure 7

Autumnal Equinox, September 21st—Shadows  
No Alley Vacation Alternative



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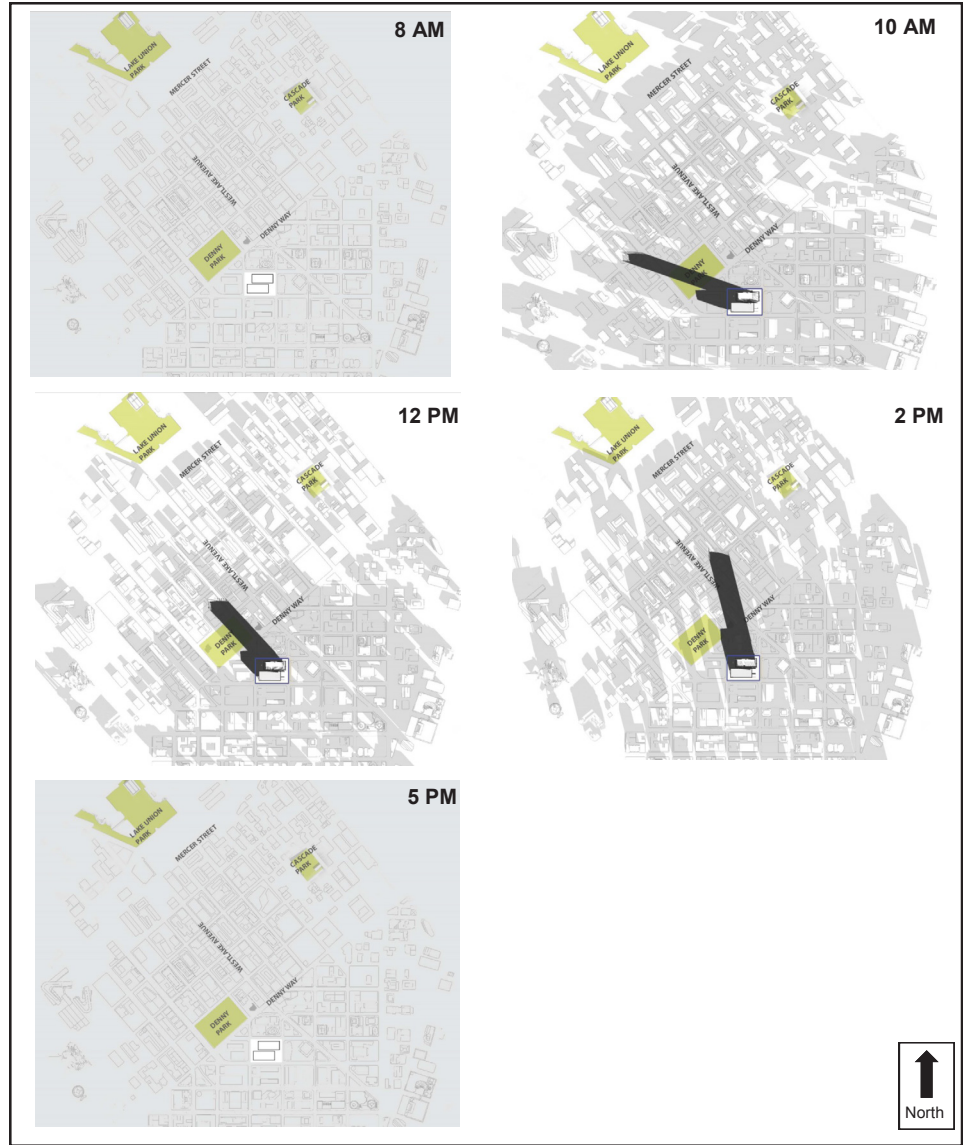
Source: Graphite Design Group, 2015



**Figure 4**

Winter Solstice, December 21st—Shadows  
Alley Vacation Alternative

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Source: Graphite Design Group, 2015



**Figure 8**

Winter Solstice, December 21st—Shadows  
No Alley Vacation Alternative