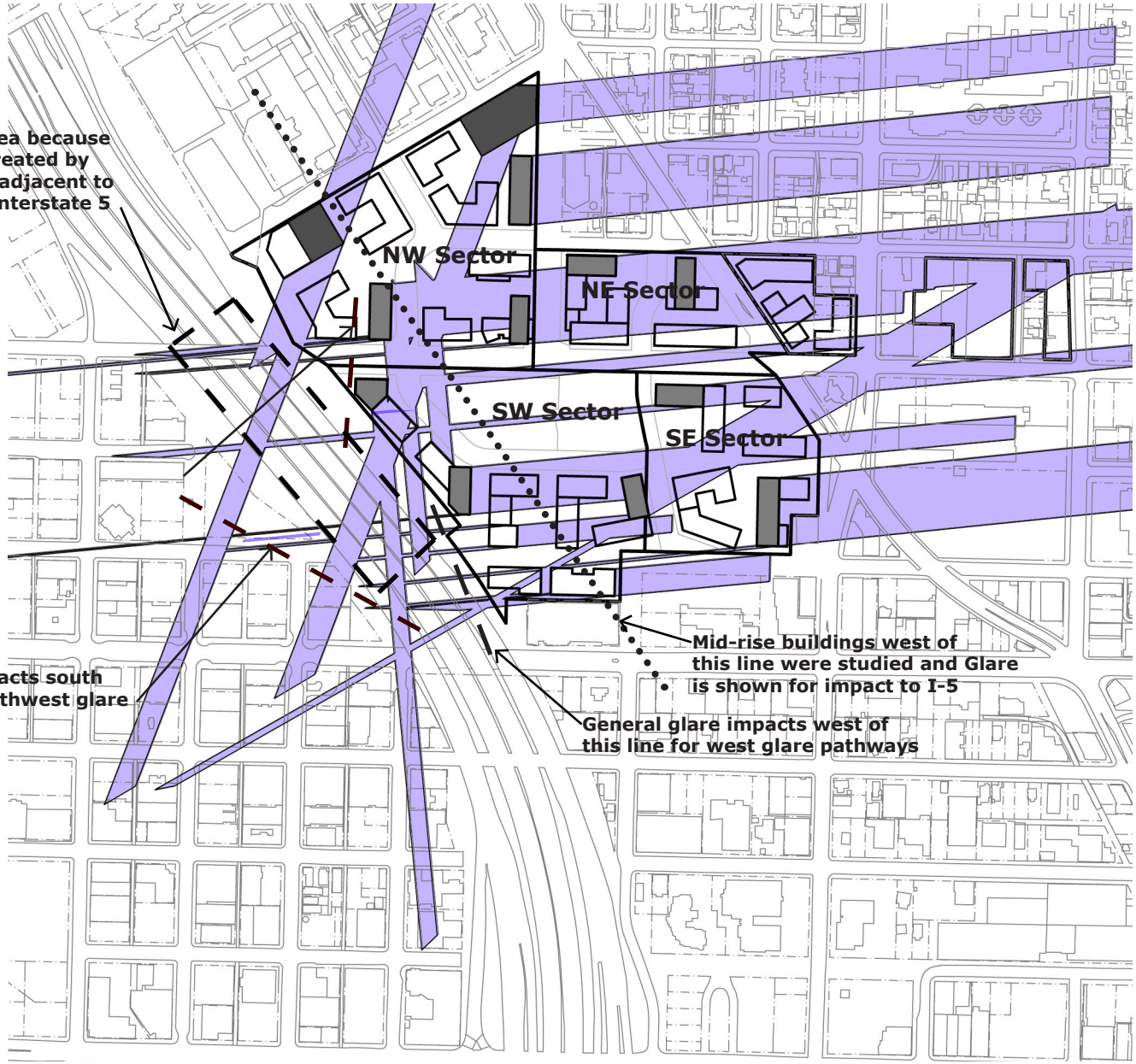
Appendix H - SHADOW and GLARE GRAPHICS



March 21 - 8 AM

Azimuth: N97.85°

Solar Elevation: 7.7°

The elevation of the sun at this time is high enough (7.7°) to impact portions of Interstate 5 to the south and west of the site even though the site and surrounding topography slopes steeply to the southwest. However due to the orientation of the buildings only very narrow glare pathways cross Interstate 5. Glare impacts to the south and west of the buildings would occur south of the line shown on the diagram for glare pathways oriented to the southwest and west of the lines shown on the diagram for glare pathways oriented to the west. All of the lanes of Interstate 5 will be shadowed from glare where a glare shadow will be created along the retaining wall adjacent to Interstate 5 as shown in the diagram. Glare shown in the diagram to the north and east of the buildings is actual glare hitting the ground plane along the entire length of the glare pathway.

Glare

High-rise Office, 240' max

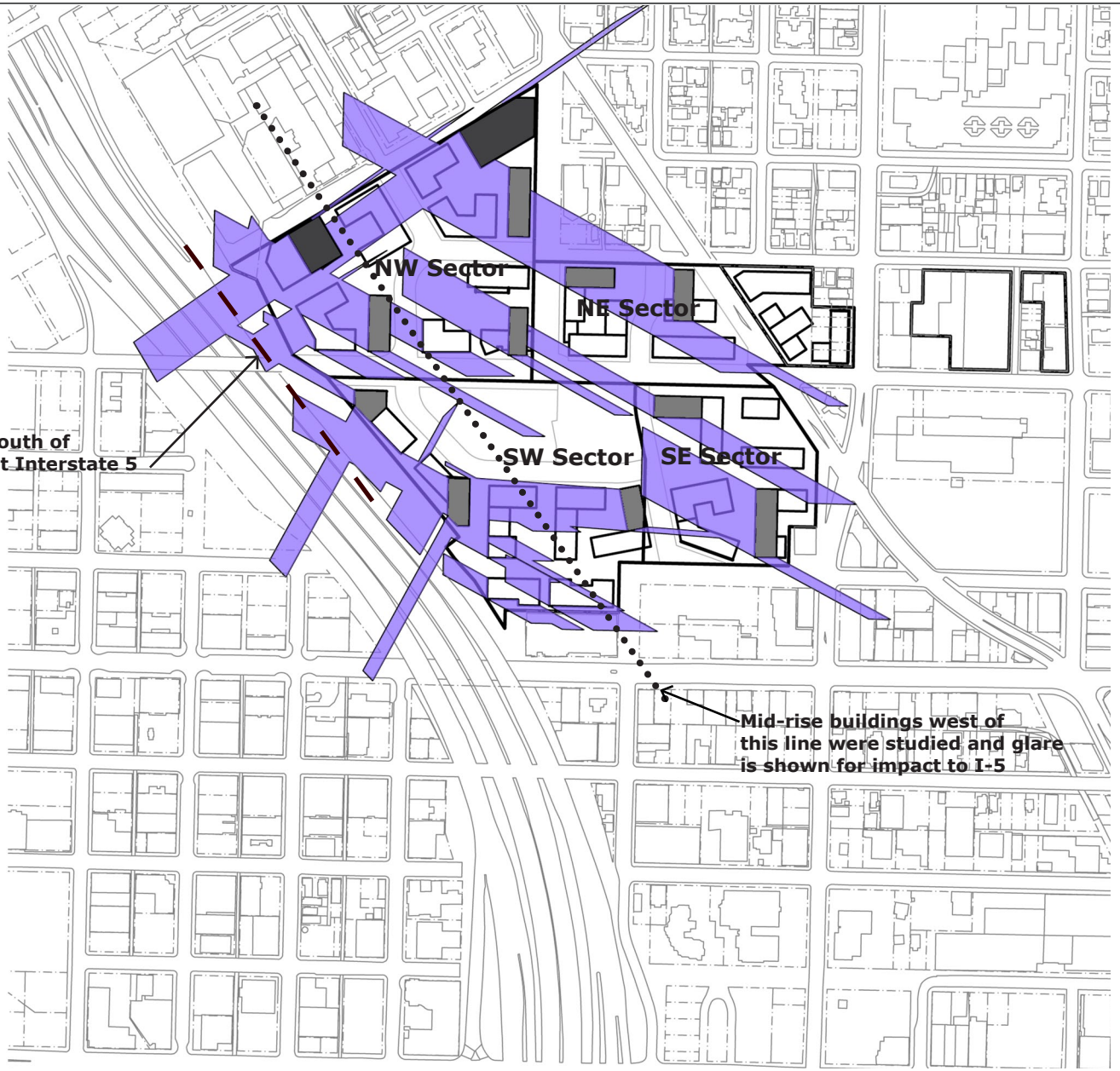
Residential Tower
240' max in Sector NE,NW,SW & SE
Except 160'max south of S Washington St in SE sector

0 250' 500'

Source: CollinsWoerman, 2011

Figure H.1
Glare - March 21st: 8 AM - Preferred Alternative

Yesler Terrace
Redevelopment EIS



March 21 - 5 PM

Azimuth: N243.78°

Solar Elevation: 22.63°

The elevation of the sun at this time is quite high (22.63°) which will limit the length of the glare pathways and create glare impacts from the base of the buildings in all directions shown even considering the steep topography in some locations. Almost all the actual glare on the ground will occur as shown on the diagram except for a small portion of the northbound lanes of Interstate 5 where a glare shadow will be created along the adjacent retaining wall.

Glare

High-rise Office, 240' max

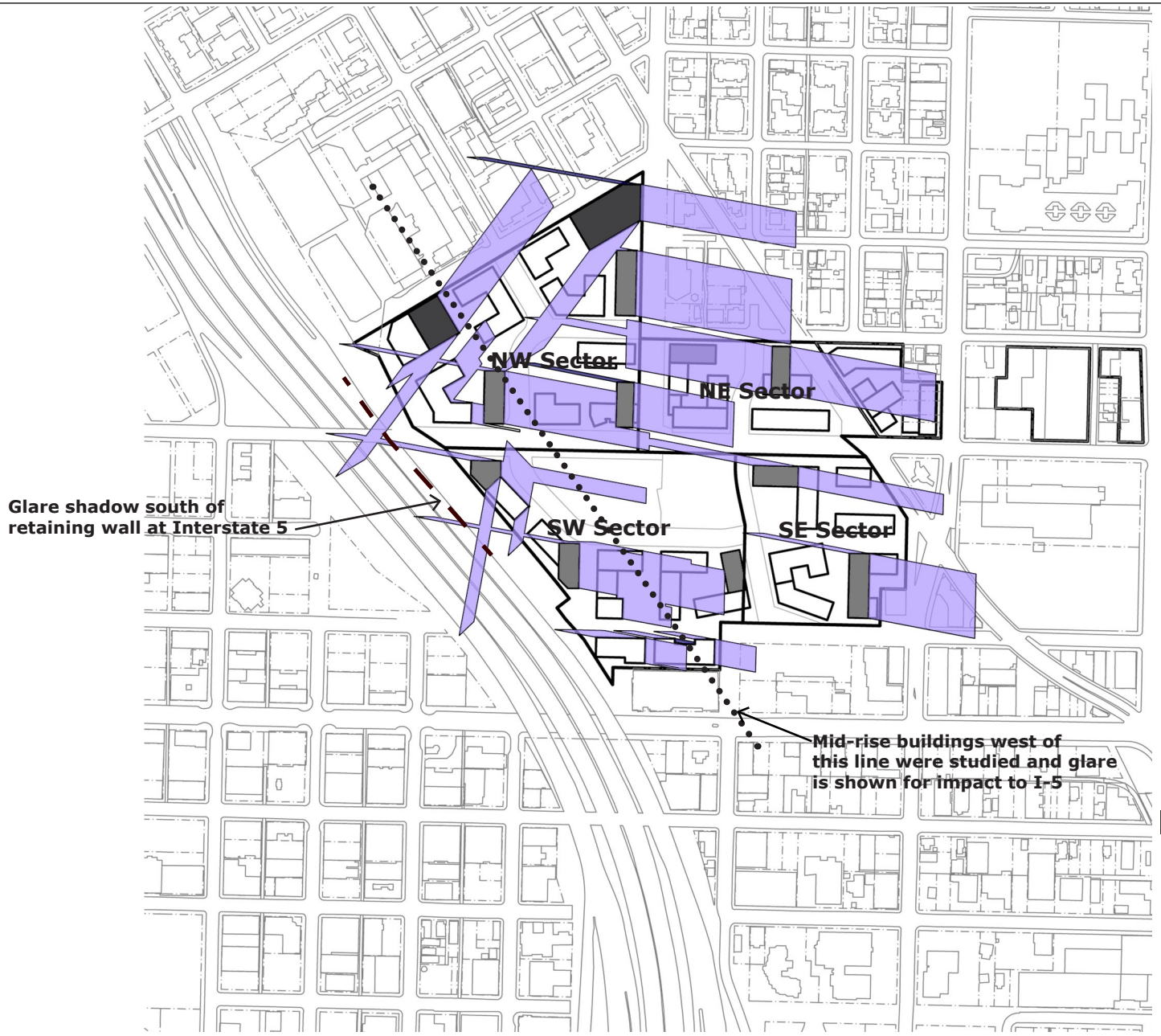
Residential Tower
240' max in Sector NE,NW,SW & SE
Except 160'max south of S Washington St in SE sector

0 250' 500'

Source: CollinsWoerman, 2011

Figure H.2
Glare - March 21st: 5 PM - Preferred Alternative

Yesler Terrace
Redevelopment EIS



June 21 - 8 AM

Azimuth: N82.08°

Solar Elevation: 25.17°

The elevation of the sun at this time is quite high (25.17°) which will limit the length of the glare pathways and create glare impacts from the base of the buildings in all directions shown even considering the steep topography in some locations. Almost all the actual glare on the ground will occur as shown on the diagram except for a small portion of the northbound lanes of Interstate 5 where a glare shadow will be created along the adjacent retaining wall.

Glare

High-rise Office, 240' max

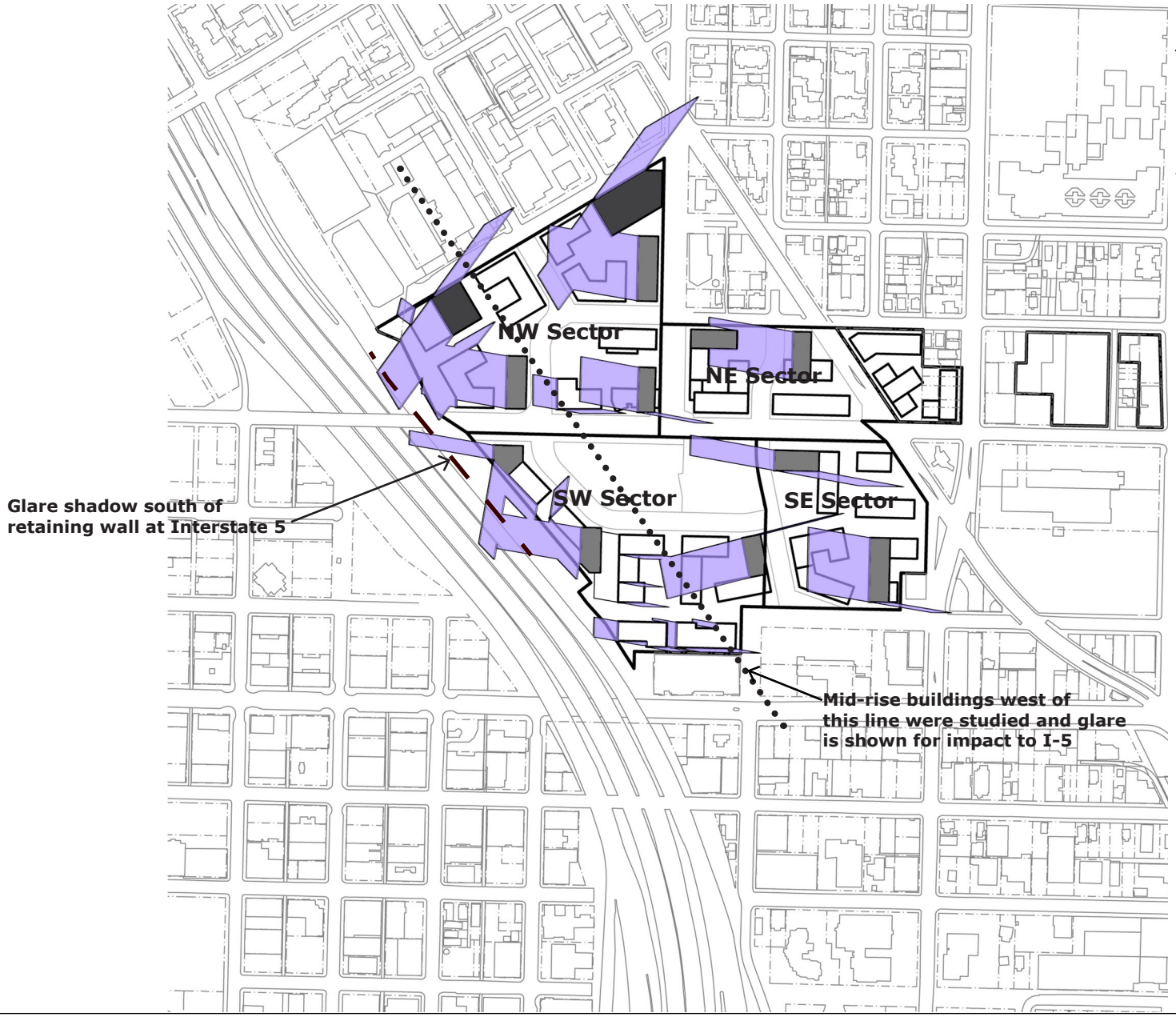
Residential Tower
240' max in Sector NE,NW,SW & SE
Except 160'max south of S Washington St in SE sector

0 250' 500'

Source: CollinsWoerman, 2011

Figure H.3
Glare - June 21st: 8 AM - Preferred Alternative

Yesler Terrace
Redevelopment EIS



June 21 - 5 PM

Azimuth: N262.71°

Solar Elevation: 38.97°

The elevation of the sun at this time is the highest of all times studied (38.97°) which will limit the length of the glare pathways and create glare impacts from the base of the buildings in all directions shown even considering the steep topography in some locations. Almost all the actual glare on the ground will occur as shown on the diagram except for a very small portion of the eastern most northbound lane of Interstate 5 where a glare shadow will be created along the adjacent retaining wall.

Glare

High-rise Office, 240' max

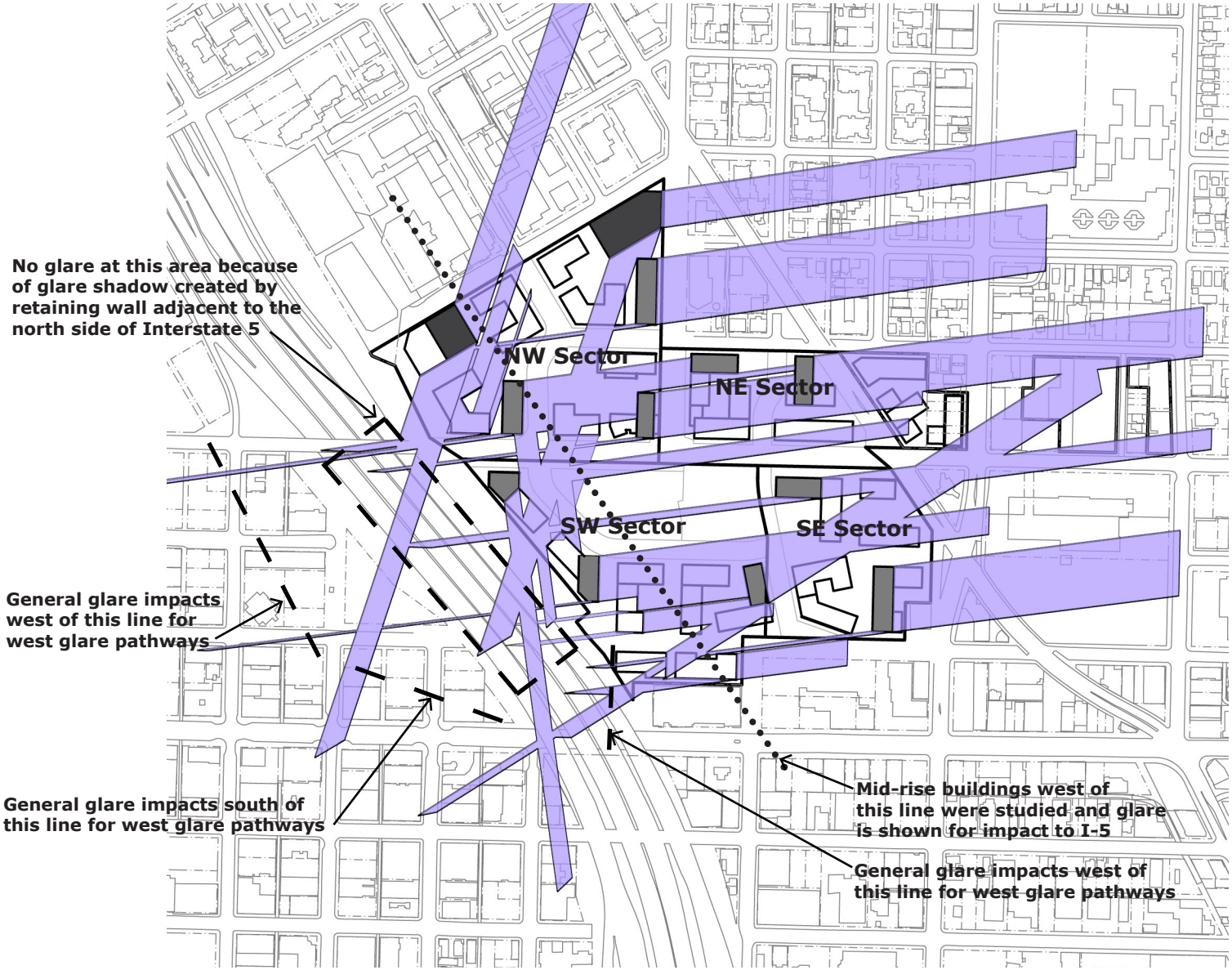
Residential Tower
240' max in Sector NE,NW,SW & SE
Except 160'max south of S Washington St in SE sector

0 250' 500'

Source: CollinsWoerman, 2011

Figure H.4
Glare - June 21st: 5 PM - Preferred Alternative

Yesler Terrace
Redevelopment EIS



September 21 - 8 AM

Azimuth: N100.35°

Solar Elevation: 10.18°

The elevation of the sun at this time is high enough (10.18°) to impact portions of Interstate 5 to the south and west of the site even though the site and surrounding topography slopes steeply to the southwest. Glare impacts will be similar to March 21 at 8 AM but will be slightly more impactful due to the higher elevation of the sun. Glare impacts to the south and west of the buildings would occur south of the line shown on the diagram for glare pathways oriented to the southwest and west of the lines shown on the diagram for glare pathways oriented to the west. For the west and southwest oriented glare, a glare shadow will be created along the retaining wall adjacent to Interstate 5 and protect all of the Interstate 5 lanes from glare where shown. Glare shown in the diagram to the north and east of the buildings is actual glare hitting the ground plane along the entire length of the glare pathway.

Glare

High-rise Office, 240' max

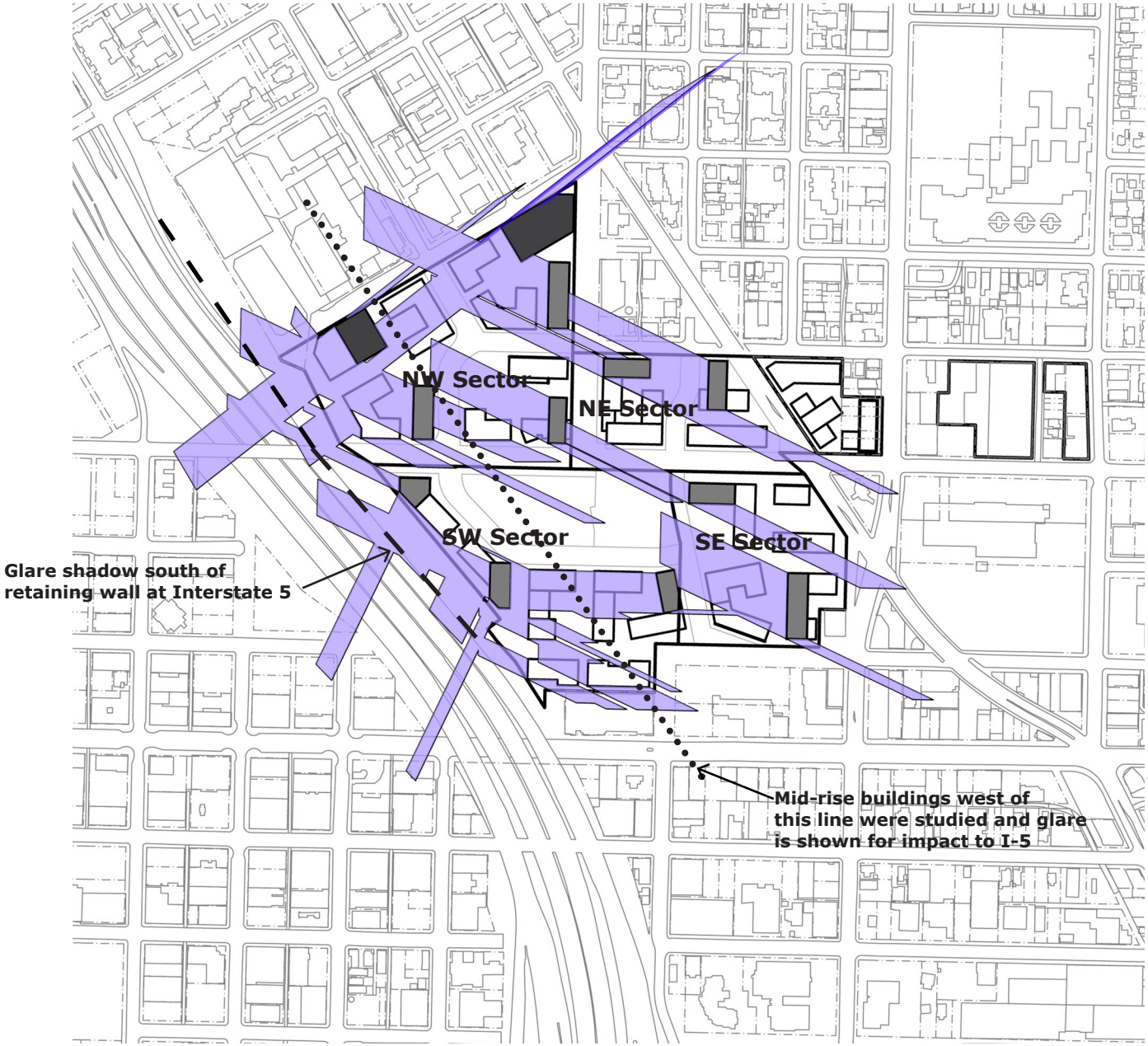
Residential Tower
240' max in Sector NE,NW,SW & SE
Except 160'max south of S Washington St in SE sector

0 250' 500'

Source: CollinsWoerman, 2011

Figure H.5
Glare - September 21st: 8 AM - Preferred Alternative

Yesler Terrace
Redevelopment EIS



September 21 - 5 PM

Azimuth: N246.73°

Solar Elevation: 20.43°

The elevation of the sun at this time is quite high (20.43°) which will limit the length of the length of the glare pathways and create glare impacts from the base of the buildings in all directions shown even considering the steep topography in some locations. Almost all the actual glare on the ground will occur as shown on the diagram except for a small portion of the northbound lanes of Interstate 5 where a glare shadow will be created along the adjacent retaining wall.

Glare

High-rise Office, 240' max

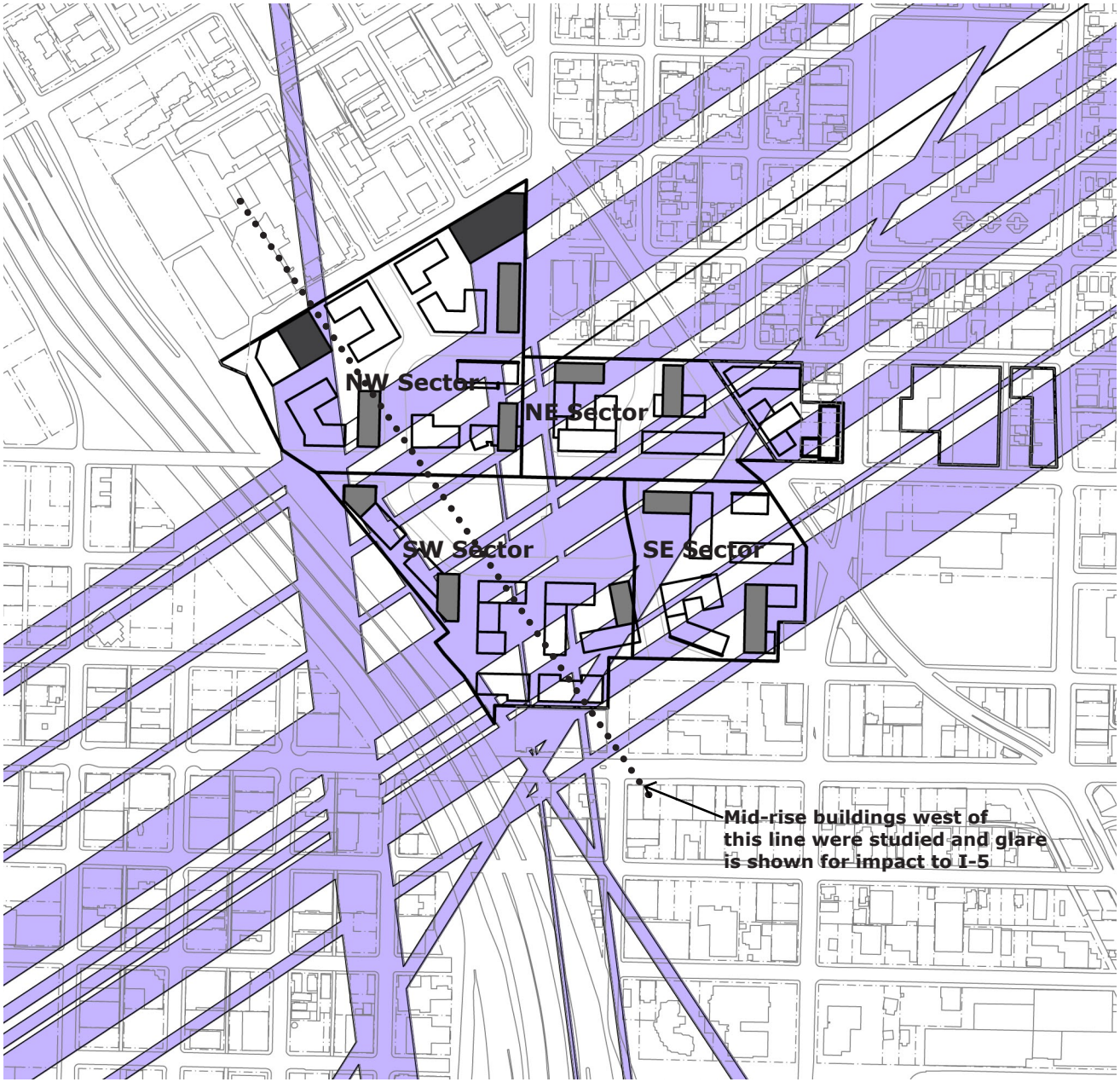
Residential Tower
240' max in Sector NE,NW,SW & SE
Except 160'max south of S Washington St in SE sector

0 250' 500'

Source: CollinsWoerman, 2011

Figure H.6
Glare - September 21st: 5 PM - Preferred Alternative

Yesler Terrace
Redevelopment EIS



December 21 - 8 AM

Azimuth: N126°

Solar Elevation: 0.39°

The elevation of the sun at this time is very low (.39°) and the topography of the site, as well as the general area surrounding the site, slopes steeply downward to the southwest toward the Duwamish river valley. These two factors cause glare impacts to south and southwest of the site to be minimal since any glare from buildings in these directions would fall 1-3 miles from the site and not align or cross Interstate 5 where they hit the ground. Glare shown in the diagram orientated to the south and southwest of the buildings represents only glare pathways as any actual glare would be above the ground plane in these locations. Glare shown in the diagram to the north and northeast of the buildings is actual glare hitting the ground plane since the topography is sloping upward to the north.

Glare

High-rise Office, 240' max

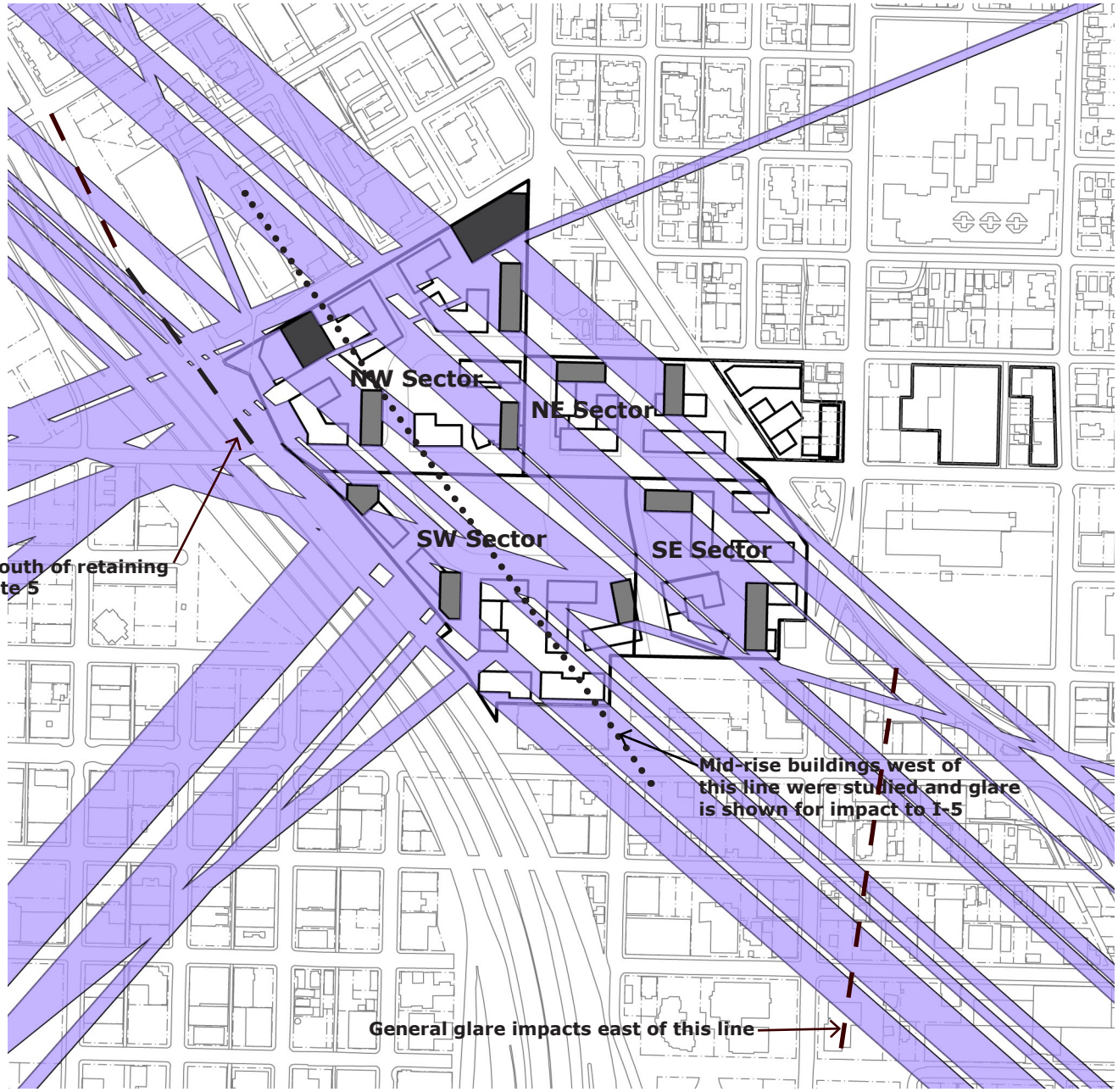
Residential Tower
240' max in Sector NE,NW,SW & SE
Except 160'max south of S Washington St in SE sector

0 250' 500'

Source: CollinsWoerman, 2011

Figure H.7
Glare - December 21st: 8 AM - Preferred Alternative

Yesler Terrace
Redevelopment EIS



December 21 - 4 PM

Azimuth: N231.2°

Solar Elevation: 2.18°

The elevation of the sun at this time is relatively low (2.18°) and the topography of the site, as well as the general area surrounding the site, slopes steeply downward to the southwest toward the Duwamish river valley. These two factors cause glare impacts to southeast of the buildings on the site to start at approximately a line east of 12th Avenue South and continuing well beyond the area shown. Glare shown in the diagram orientated to the southwest of the buildings represents only glare pathways as any actual glare would be above the ground plane in these locations because of the surrounding site topography. Glare shown in the diagram to the northwest and northeast of the buildings is actual glare hitting the ground plane since the topography is typically higher to the north, except for a glare shadow falling on the north bound lanes of Interstate 5 which is cast by the retaining wall adjacent to Interstate 5.

Glare

High-rise Office, 240' max

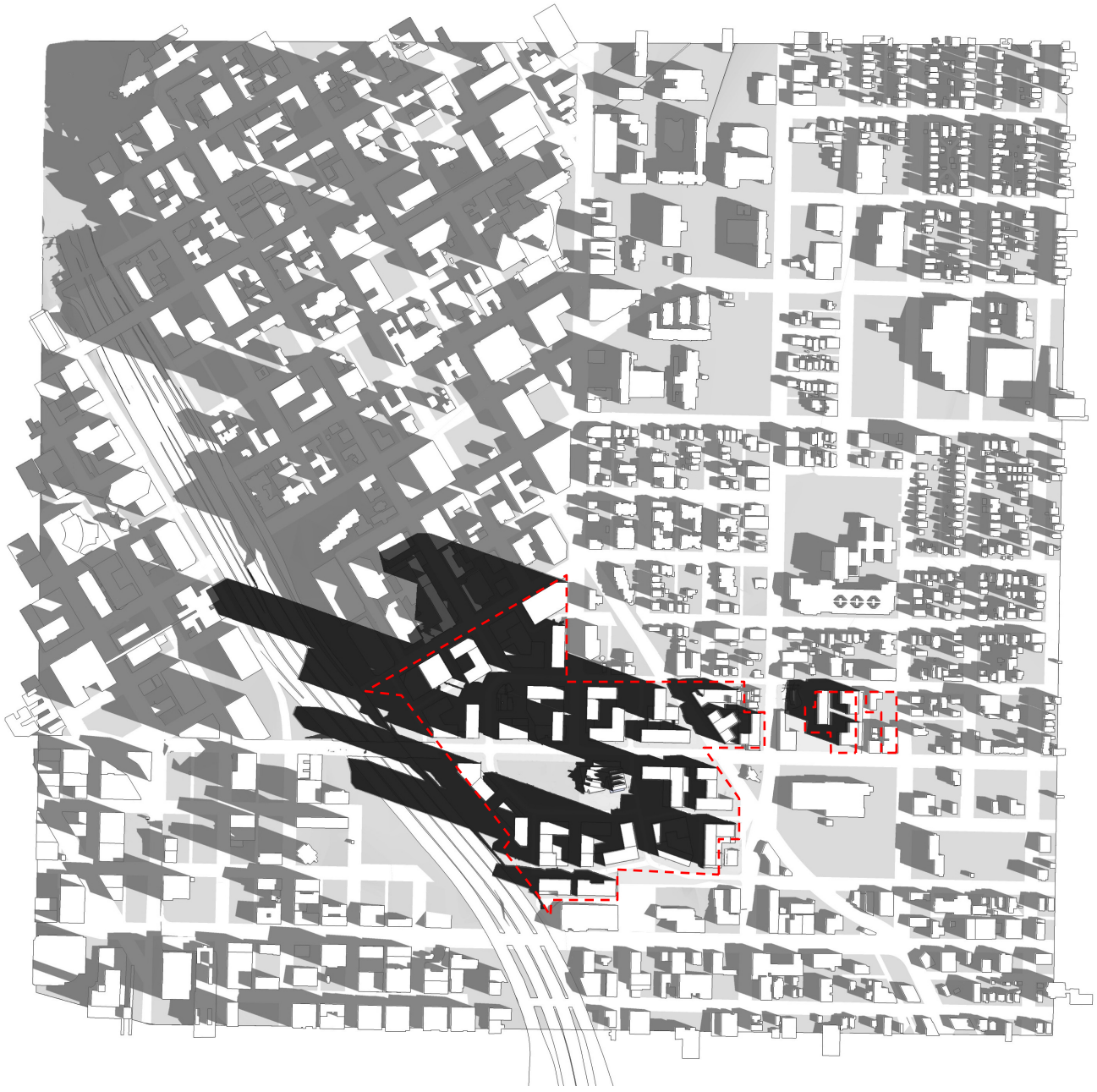
Residential Tower
240' max in Sector NE,NW,SW & SE
Except 160'max south of S Washington St in SE sector

0 250' 500'

Source: CollinsWoerman, 2011

Figure H.8
Glare - December 21st: 4 PM - Preferred Alternative

Yesler Terrace
Redevelopment EIS



Site Boundary

Source: CollinsWoerman, 2011

Figure H.9
Preferred Alternative Shadow Studies
March 21st, 9AM

Yesler Terrace
Redevelopment EIS

Site Boundary

Source: CollinsWoerman, 2011

Figure H.10
Preferred Alternative Shadow Studies
March 21st, 12PM

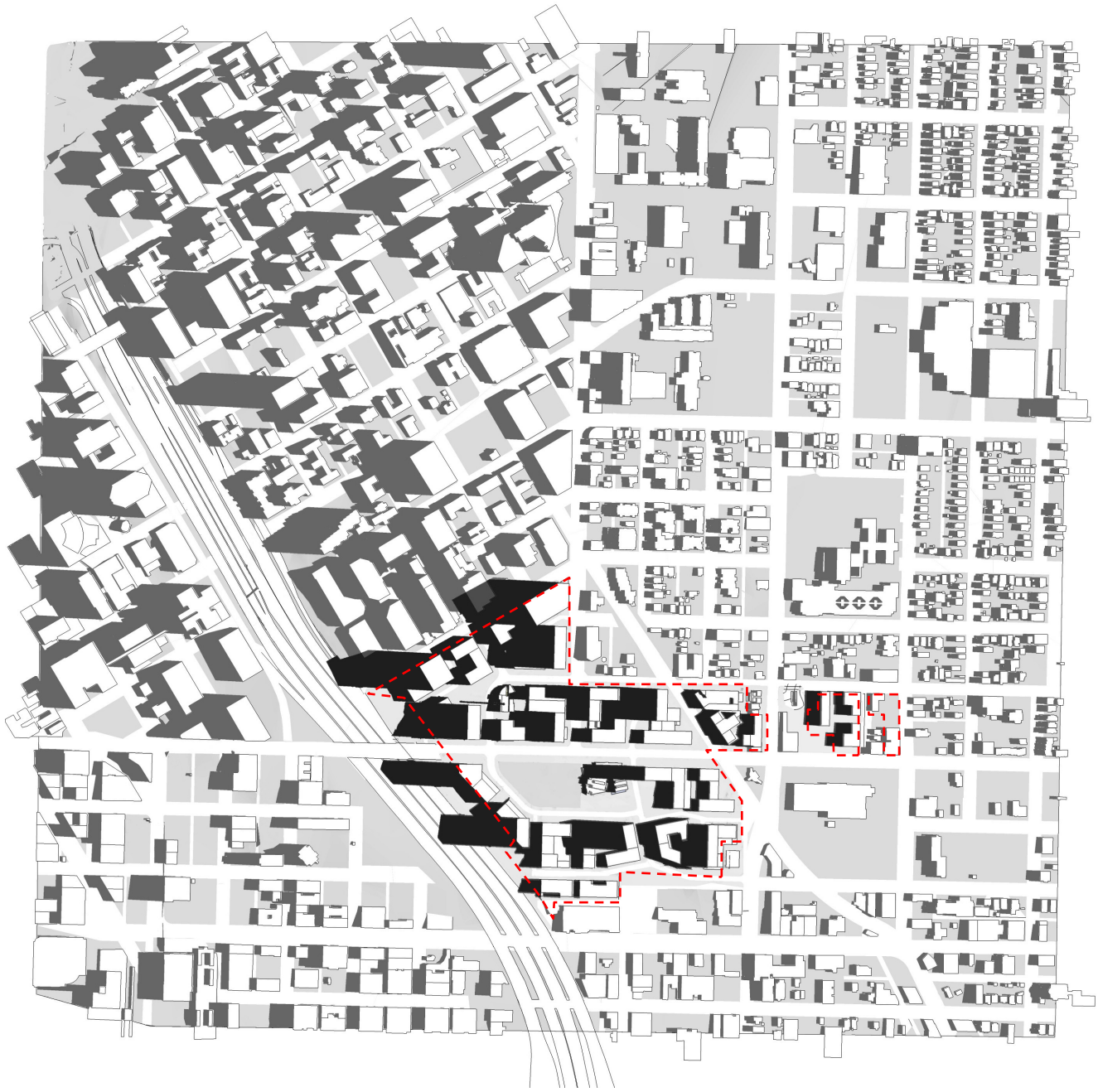
Yesler Terrace
Redevelopment EIS

Site Boundary

Source: CollinsWoerman, 2011

Figure H.11
Preferred Alternative Shadow Studies
March 21st, 5PM

Yesler Terrace
Redevelopment EIS



Site Boundary

Source: CollinsWoerman, 2011

Figure H.12
Preferred Alternative Shadow Studies
June 21st, 9AM

Yesler Terrace
Redevelopment EIS

Site Boundary

Source: CollinsWoerman, 2011

Figure H.13
Preferred Alternative Shadow Studies
June 21st, 12PM

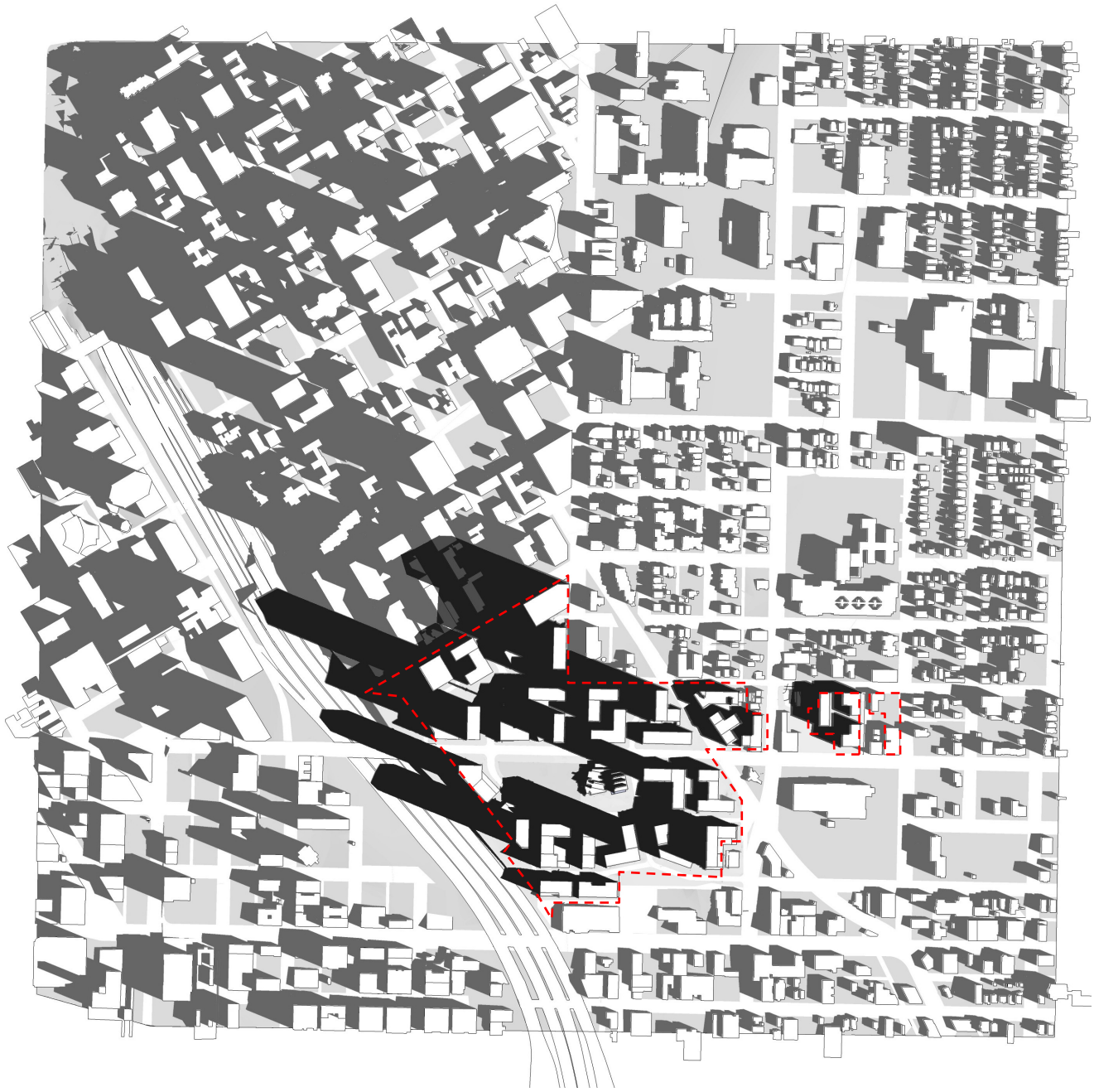
Yesler Terrace
Redevelopment EIS

Site Boundary

Source: CollinsWoerman, 2011

Figure H.14
Preferred Alternative Shadow Studies
June 21st, 5PM

Yesler Terrace
Redevelopment EIS



Site Boundary

Source: CollinsWoerman, 2011

Figure H.15
Preferred Alternative Shadow Studies
September 21st, 9AM

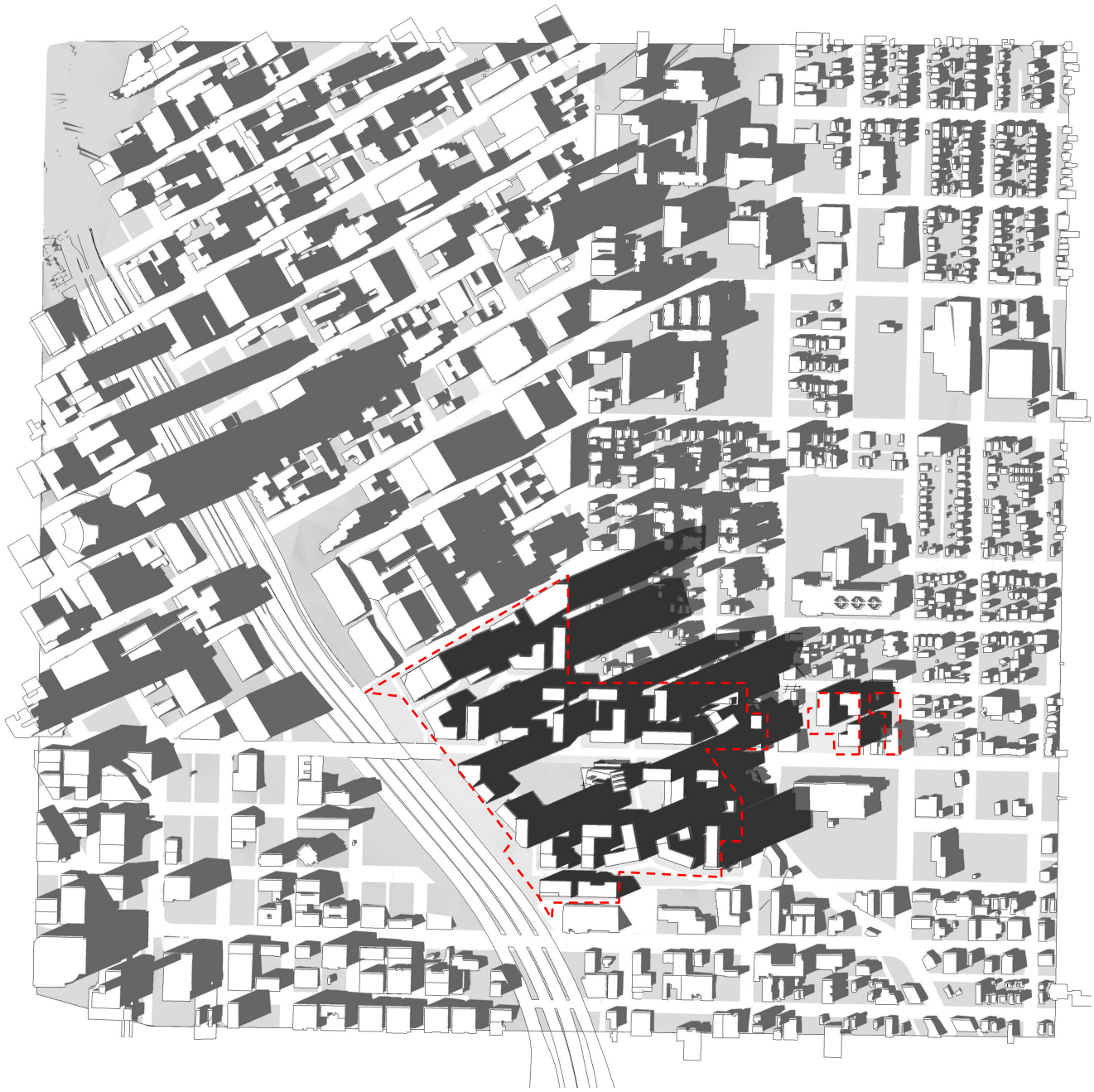
Yesler Terrace
Redevelopment EIS

Site Boundary

Source: CollinsWoerman, 2011

Figure H.16
Preferred Alternative Shadow Studies
September 21st, 12PM

Yesler Terrace
Redevelopment EIS

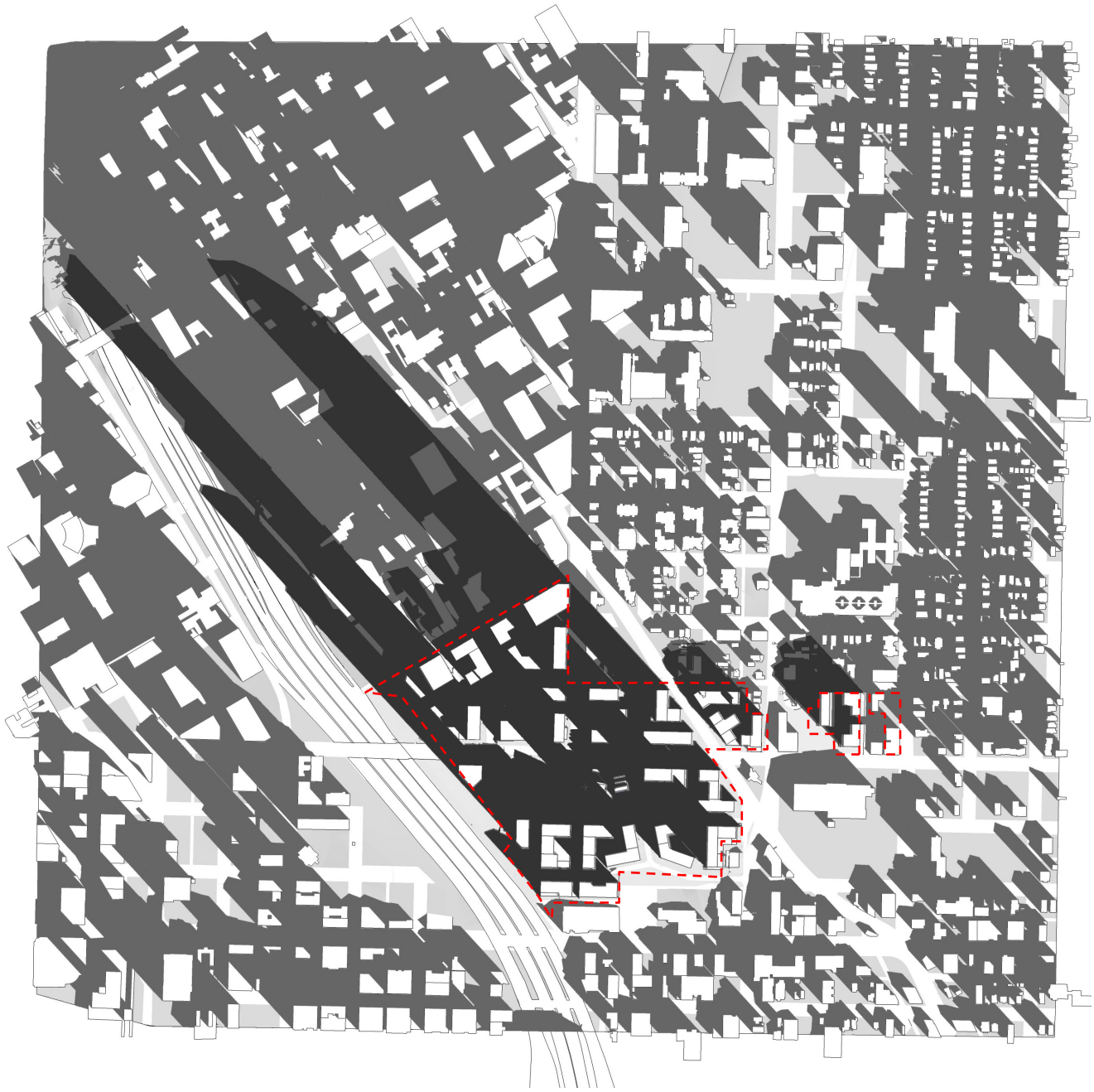


Site Boundary

Source: CollinsWoerman, 2011

Figure H.17
Preferred Alternative Shadow Studies
September 21st, 5PM

Yesler Terrace
Redevelopment EIS



Site Boundary

Source: CollinsWoerman, 2011

Figure H.18
Preferred Alternative Shadow Studies
December 21st, 9AM

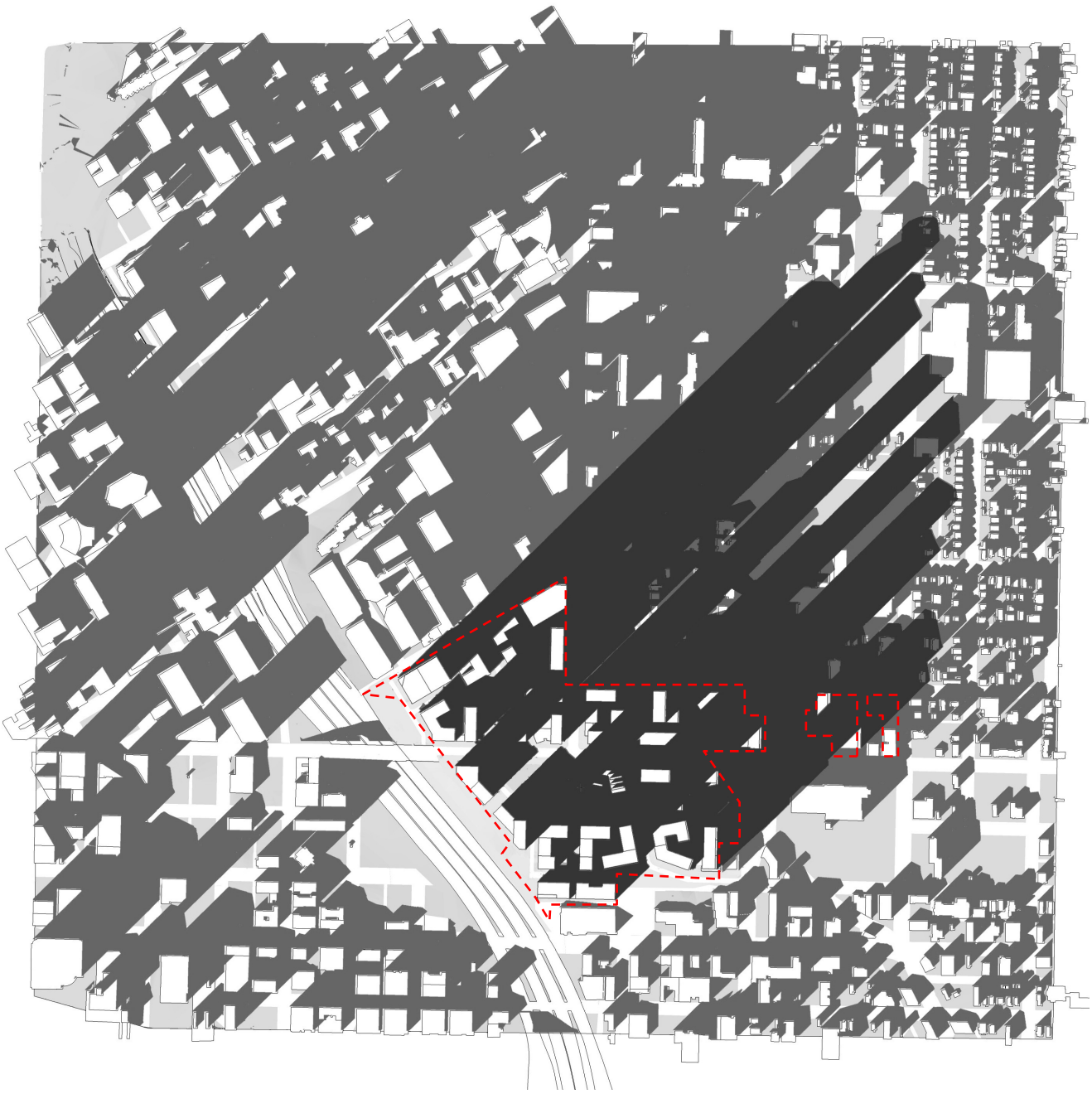
Yesler Terrace
Redevelopment EIS

Site Boundary

Source: CollinsWoerman, 2011

Figure H.19
Preferred Alternative Shadow Studies
December 21st, 12PM

Yesler Terrace
Redevelopment EIS



Site Boundary

Source: CollinsWoerman, 2011

Figure H.20
Preferred Alternative Shadow Studies
December 21st, 3:30PM

Yesler Terrace
Redevelopment EIS