



MARCH 19, 2021

SHADOW ANALYSIS OF THE SHADOW EFFECTS OF PROPOSED AT&T ROOFTOP ENCLOSURES AT 590 2ND AVENUE ON OUTDOOR AREAS OF 588 2ND AVENUE PER SAN FRANCISCO PLANNING STANDARDS



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I. SHADOW ANALYSIS OVERVIEW & FINDINGS

This report contains an analysis conducted by Prevision Design to identify the shadow effects that would be caused by the proposed construction of a rooftop enclosure for AT&T telecommunications equipment at 590 2nd Avenue in San Francisco (“the project”) on private rear yard decks and open spaces at 588 2nd Avenue.

The analysis was conducted according to criteria and methodology typical for shadow analysis of major projects in San Francisco and based on a 3D model of the subject buildings, surrounding context and proposed project. The study includes both a graphical and quantitative analysis of the effects of the proposed project on three distinct exterior spaces at 588 2nd Avenue: The upper deck, the lower deck area, and the rear yard.

The graphical analysis (Exhibit A) show diagrams reflecting shadow conditions at one hour intervals starting one hour after sunrise to one hour prior to sunset on June 21st (summer solstice), September 20th (approx fall equinox), December 20st (winter solstice), and March 23rd (approx fall equinox). Additionally, diagrams are presented at one hour intervals starting one hour after sunrise to one hour prior to sunset as well as 15-minute intervals during affected times on October 11th and March 1st, the dates with the most net new shadow cast on 588 2nd Avenue.

For the quantitative analysis (Exhibits B-D), shadow has been measured by simulating, measuring and multiplying the area of the shadow by the amount of time the shadow is present on the open space, in units called square foot-hours (sfh). Determining the annual net new shadow load generated by a project begins with a calculation of the number of square foot-hours that would theoretically fall on a space each day from an hour after sunrise to an hour before sunset (measurements are taken at 15-minute intervals) summed over the course of a year¹, ignoring all shadow from any source. This total is referred to as the Theoretical Annual Available Sunlight (TAAS) for that space. The second step is the calculation of the baseline (or current) shading conditions, which factors in the square foot-hours of shadow cast by existing buildings and other structures on the open space. Lastly, the shadow effects including the project are calculated, with the difference between the baseline shadow condition and project shadow condition representing the net new project shadow. The amount of shadow load

¹ Data is taken every seven days between June 21st and December 20th, then mirrored to reflect the path of the sun for the other half of the year. Data for dates in between the seven day intervals is extrapolated from these results, consistent with established SF methodology.

is defined as the shadow in square foot-hours cast by the project divided by the TAAS, expressed as a percentage.

The results of the quantitative shadow analysis include for each affected area a chart showing the relative amounts of sun vs existing shadow vs project shadow, a summary sheet showing an overview of times, dates, areas and total existing and net new shadow load for each affected space.

II. REVIEW OF APPELLANT SHADOW ANALYSIS

Prevision Design was forwarded an unsigned and undated copy of a shadow analysis prepared by or for the appellant to the project (Exhibit E). We have reviewed this analysis and while portions of this study were difficult to understand, we have the following observations:

1. The study states it was prepared using solar angles from the NOAA ESRL Solar Position Calculator. This is a reputable source for such information however cross checking the specific angles used against the solar calculator output was not verified.
2. The study calculations appear to be based on hand-drawn plans and sections, as well as estimates of approximate angles of solar blockage that would be generated by the screen. The drawings are difficult to decipher and it is unclear if the solar north orientation was accurately established.
3. The analysis methodology appears to identify the bounding solar azimuth and altitude when the approximated location of the screen would fall in line with the affected decks and rear yard. This method appears to yield a reasonable approximation of the dates and times when shadow would occur based on a comparison with our study.
4. The calculation of net effect of shadow appears to track times where some amount of shadow would fall on the affected space, but in determining the amount of shadow reduction (listed as a percentage reduction), treats all areas shadow as equivalent. This conclusion is misleading, as times where at times only a small area of new shadow is present are represented as 100% shaded.

Overall, the findings with respect the approximate number of days and times when shading would occur generally follow our findings, we do find the characterization of percentage of sunlight reduction to be flawed and misleading. The standard unit for shadow analysis is the square foot hour which represents not only the duration when a shadow is cast but also its size.

EXHIBIT A: SHADOW DIAGRAMS

Diagrams reflecting shadow conditions at one hour intervals starting one hour after sunrise to one hour prior to sunset on the following dates:

June 21st (summer solstice)
September 20th (approx fall equinox)
December 20st (winter solstice)
March 23rd (approx fall equinox)

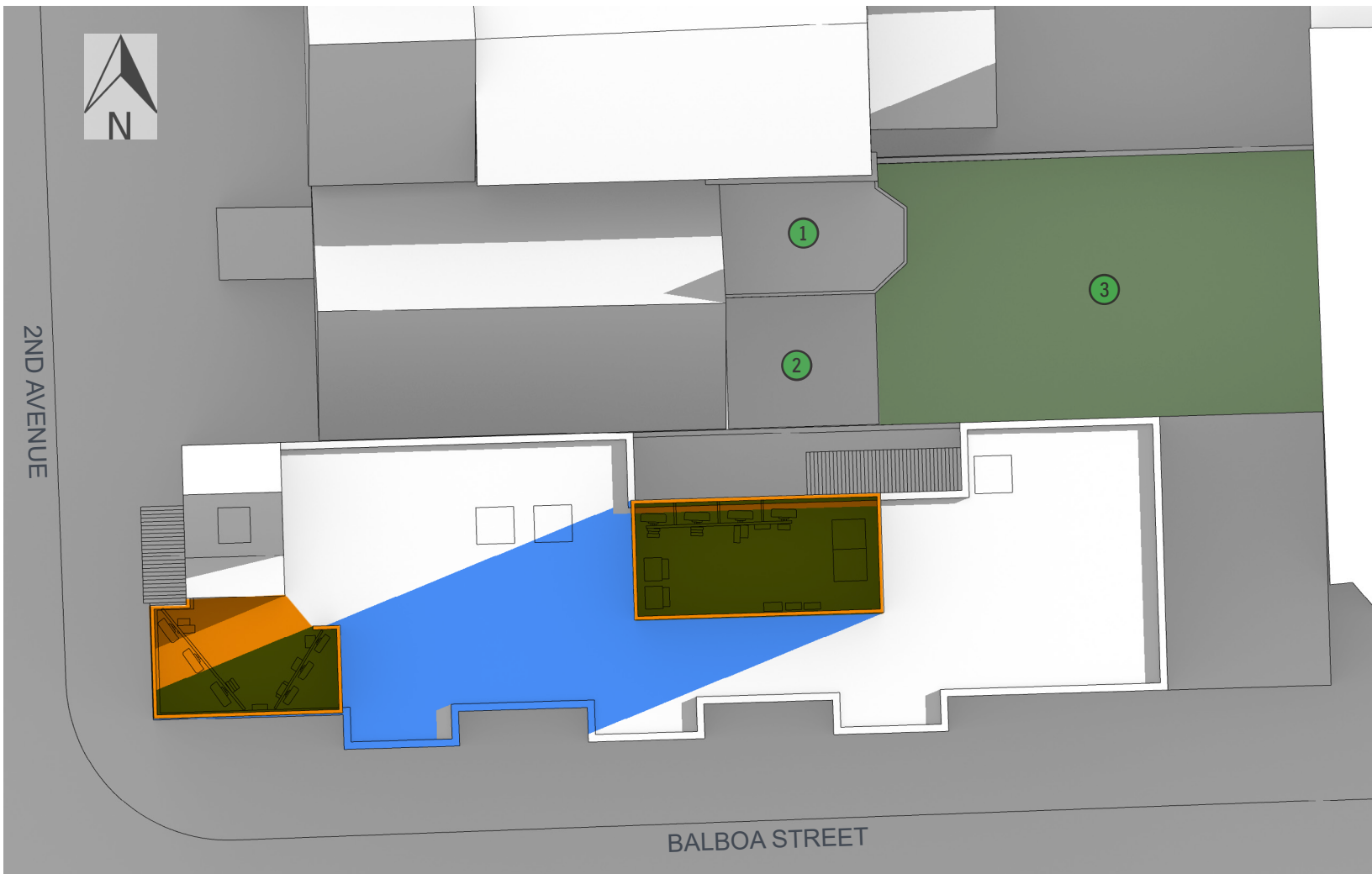
Additionally, diagrams are presented at at one hour intervals starting one hour after sunrise to one hour prior to sunset as well as 15-minute intervals during affected times on the dates with the most quantitative net new shadow cast on 588 2nd Avenue:

October 11th/March 1st

SUM-1.1

588 2ND AVENUE

Shading diagrams on the Summer Solstice



SUMMER SOLSTICE
JUNE 21

6:46 AM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

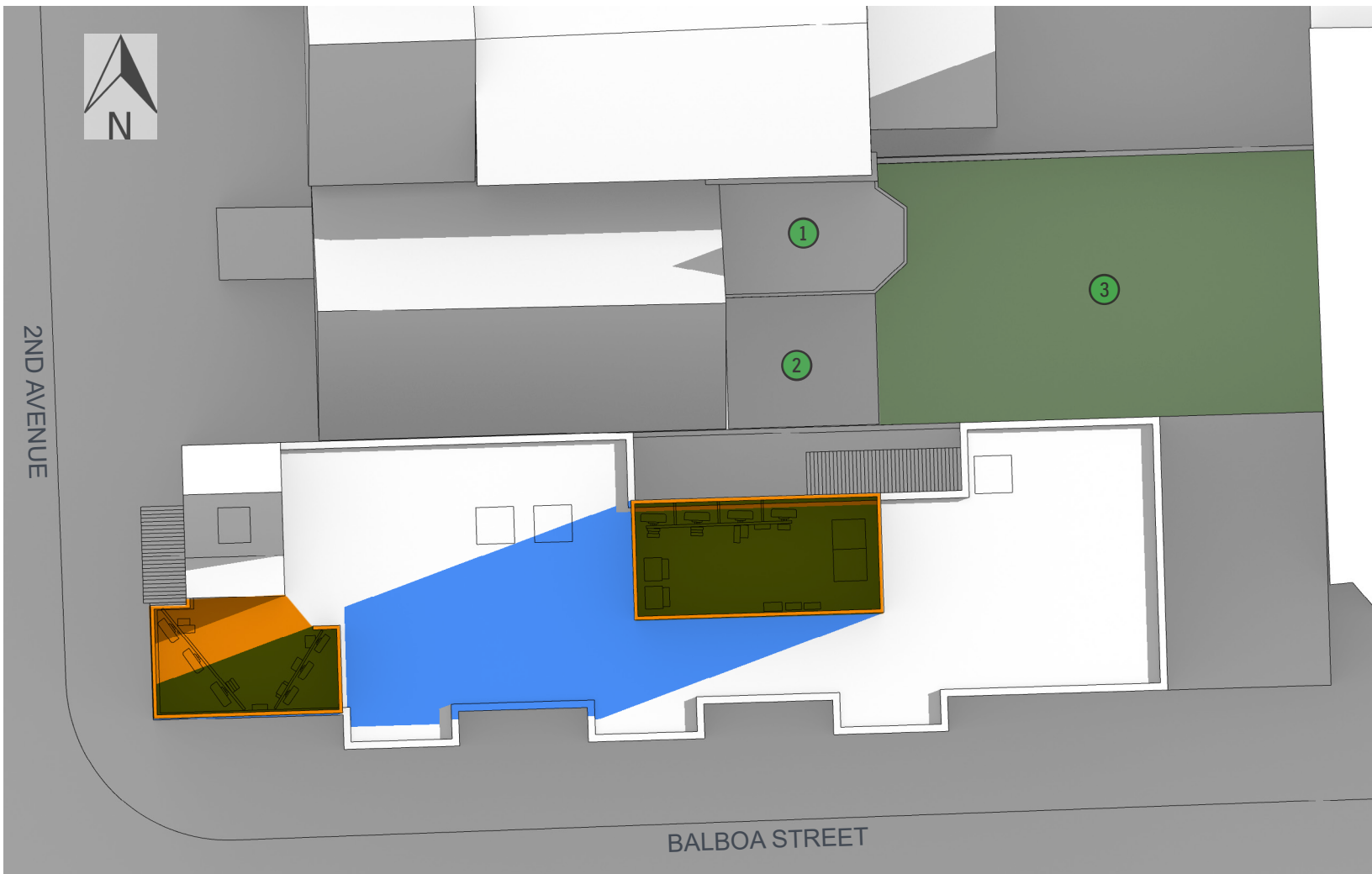
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

SUM-1.2

588 2ND AVENUE

Shading diagrams on the Summer Solstice



SUMMER SOLSTICE
JUNE 21

7:00 AM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

SUM-1.3

588 2ND AVENUE

Shading diagrams on the Summer Solstice



SUMMER SOLSTICE
JUNE 21

8:00 AM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

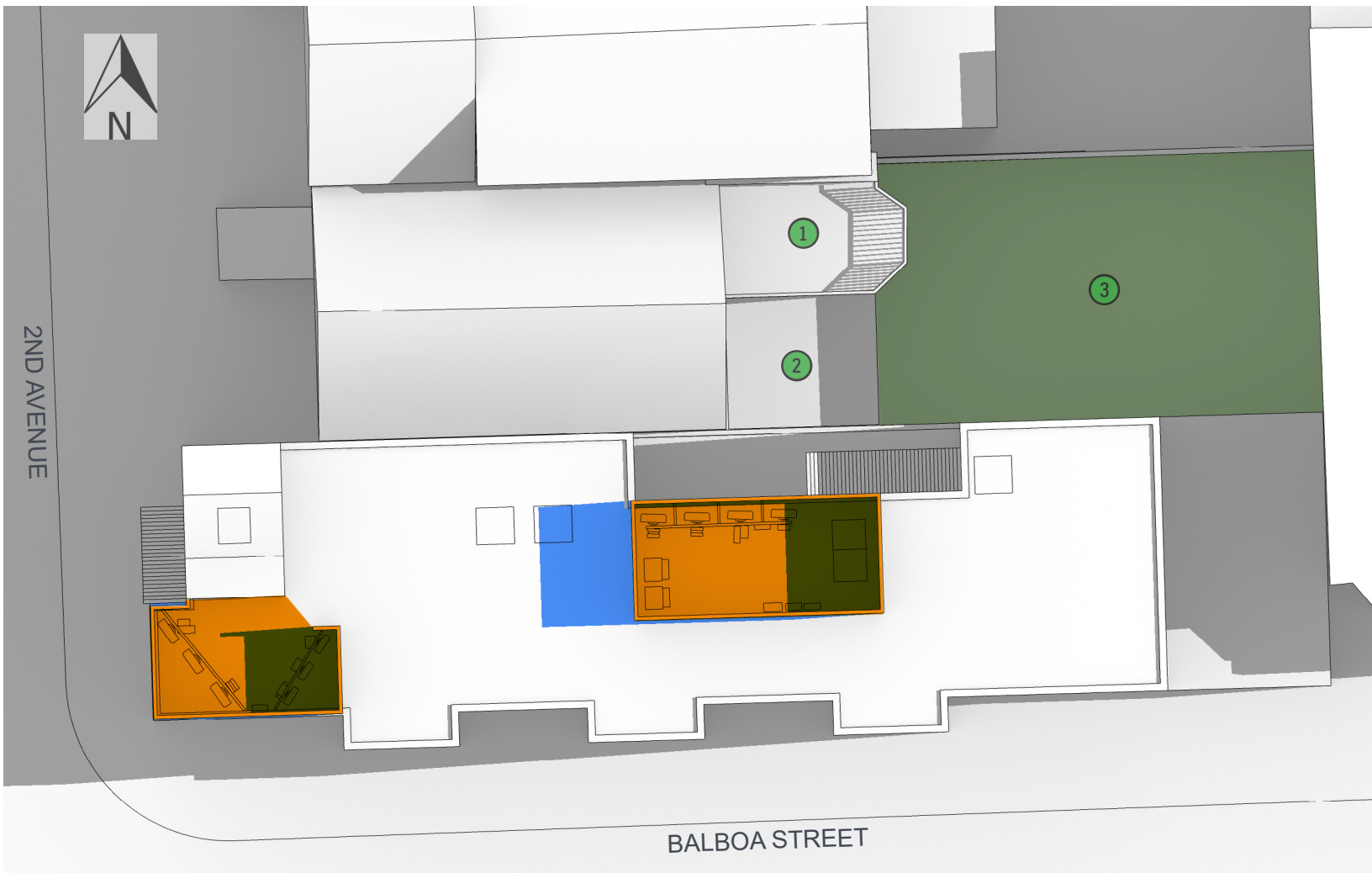
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

SUM-1.4

588 2ND AVENUE

Shading diagrams on the Summer Solstice



**SUMMER SOLSTICE
JUNE 21**

9:00 AM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

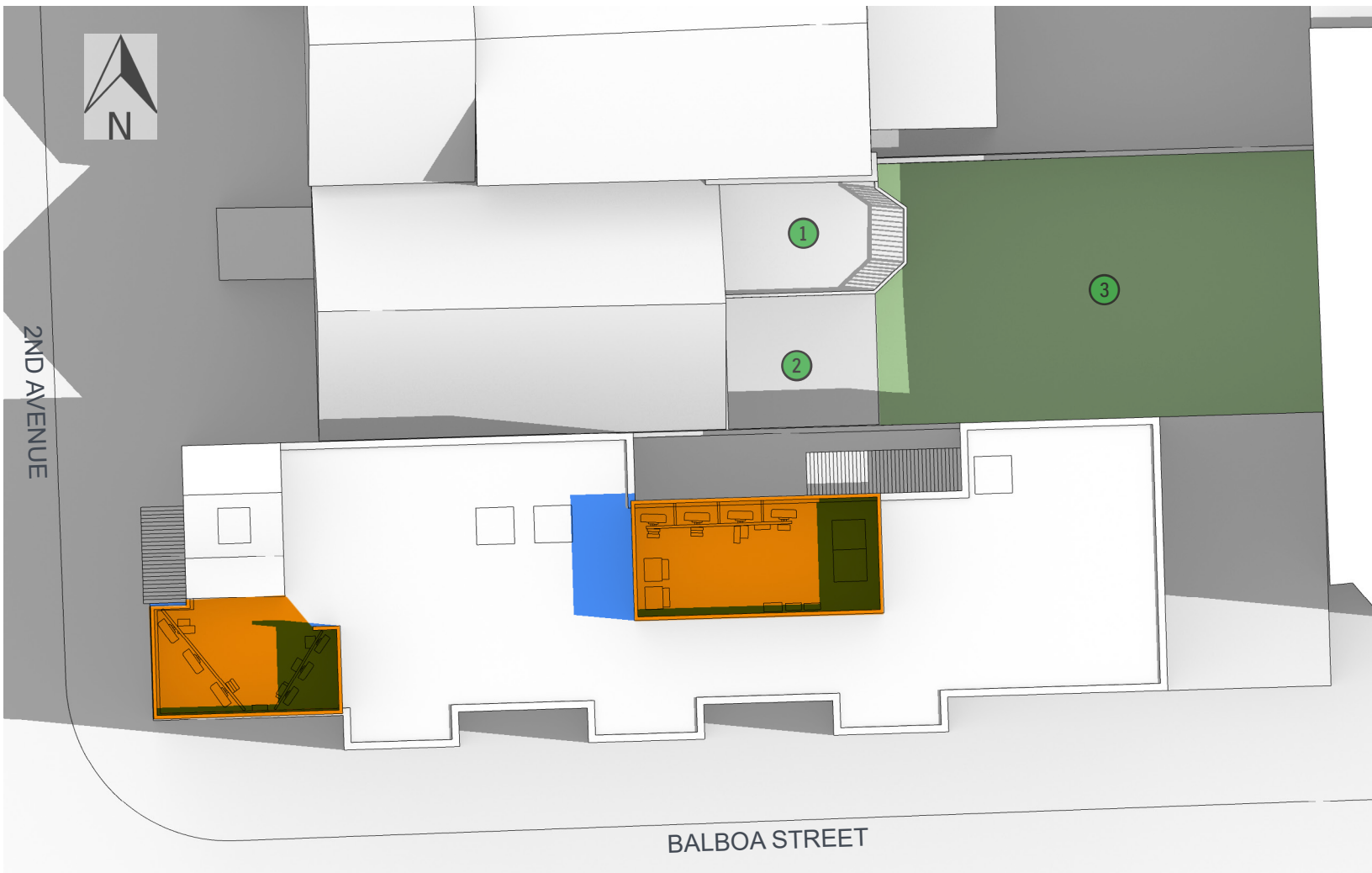
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

SUM-1.5

588 2ND AVENUE

Shading diagrams on the Summer Solstice



SUMMER SOLSTICE
JUNE 21

10:00 AM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

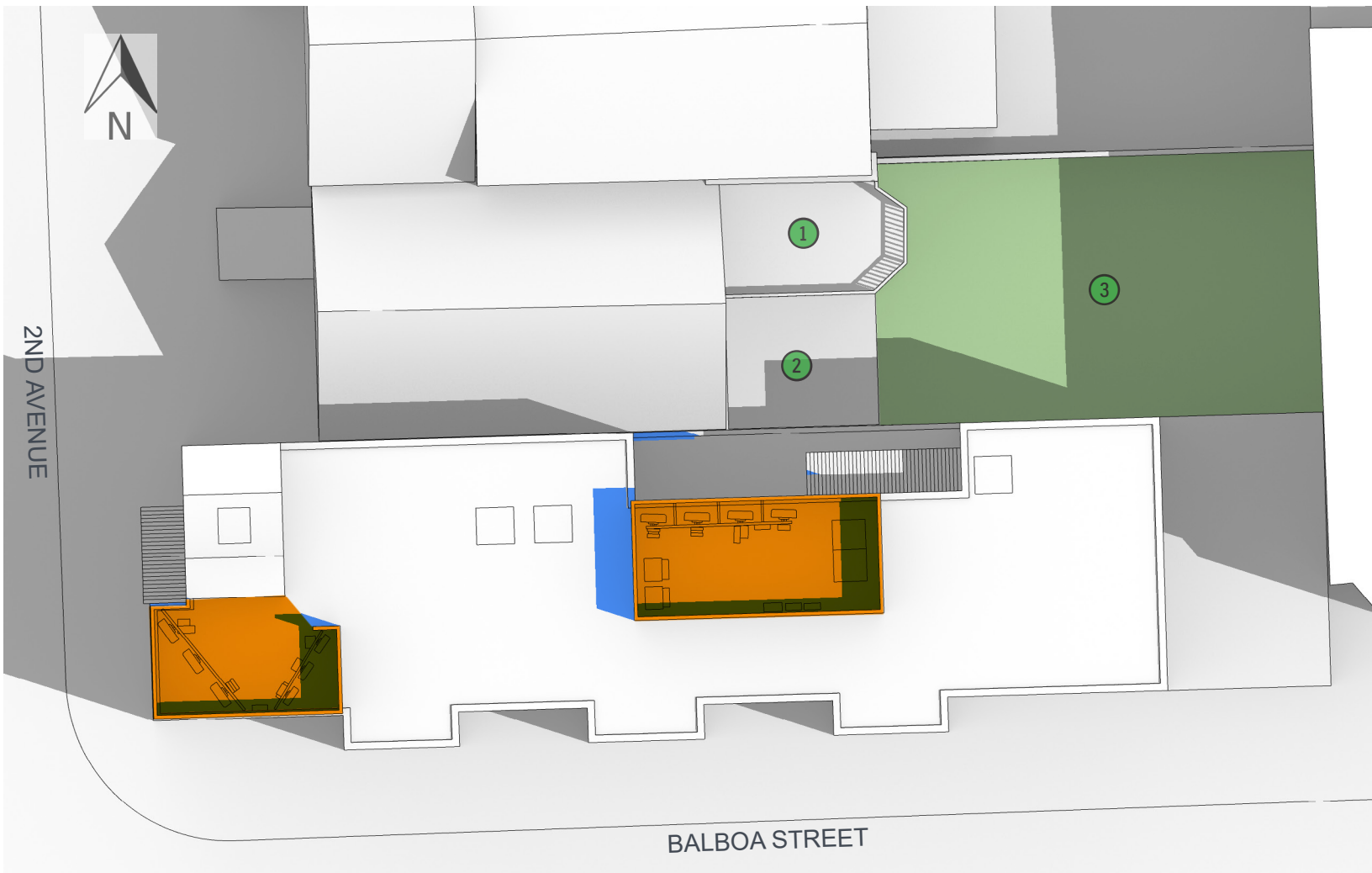
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

SUM-1.6

588 2ND AVENUE

Shading diagrams on the Summer Solstice



SUMMER SOLSTICE
JUNE 21

11:00 AM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

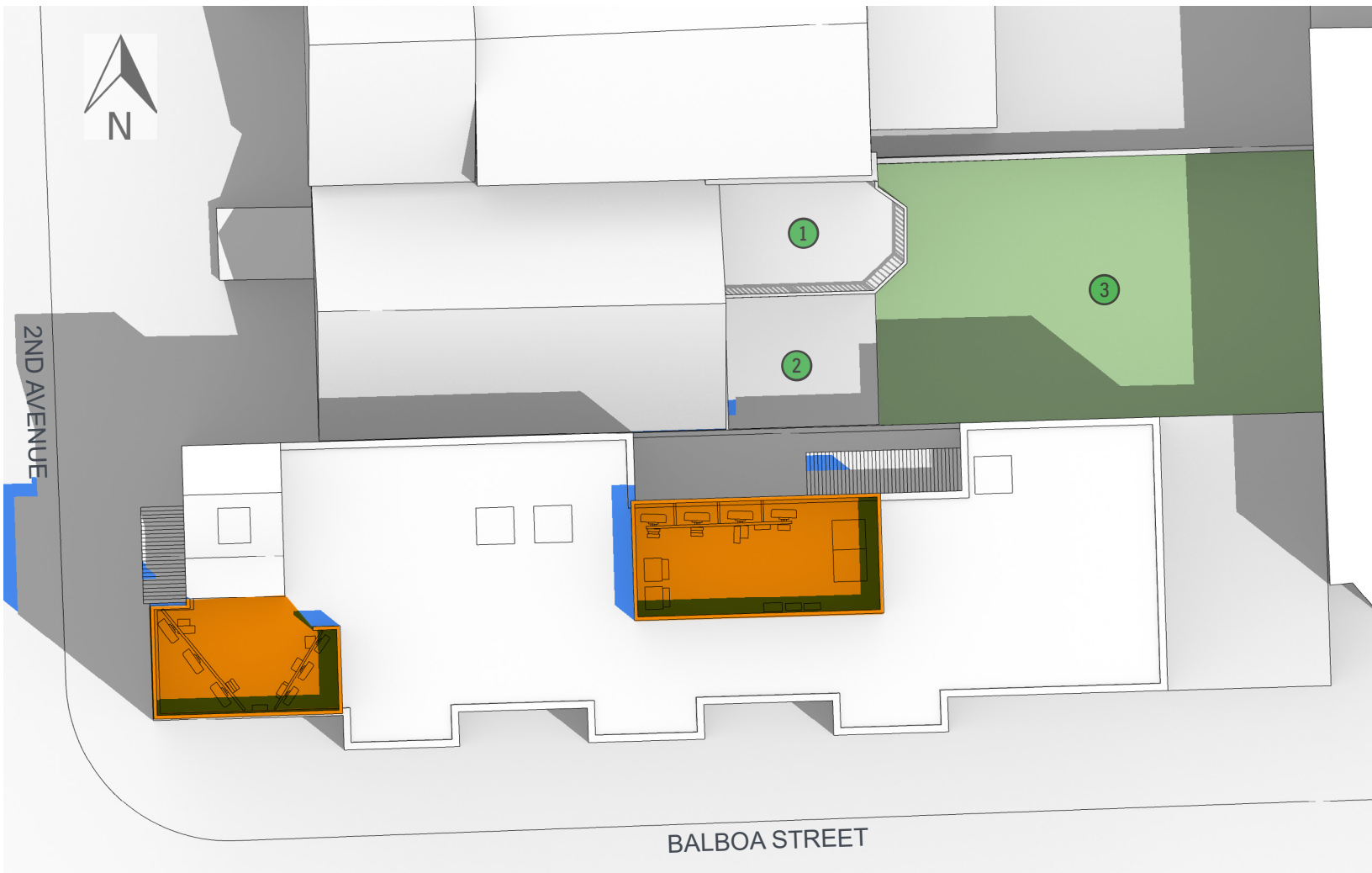
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

SUM-1.7

588 2ND AVENUE

Shading diagrams on the Summer Solstice



SUMMER SOLSTICE
JUNE 21

12:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

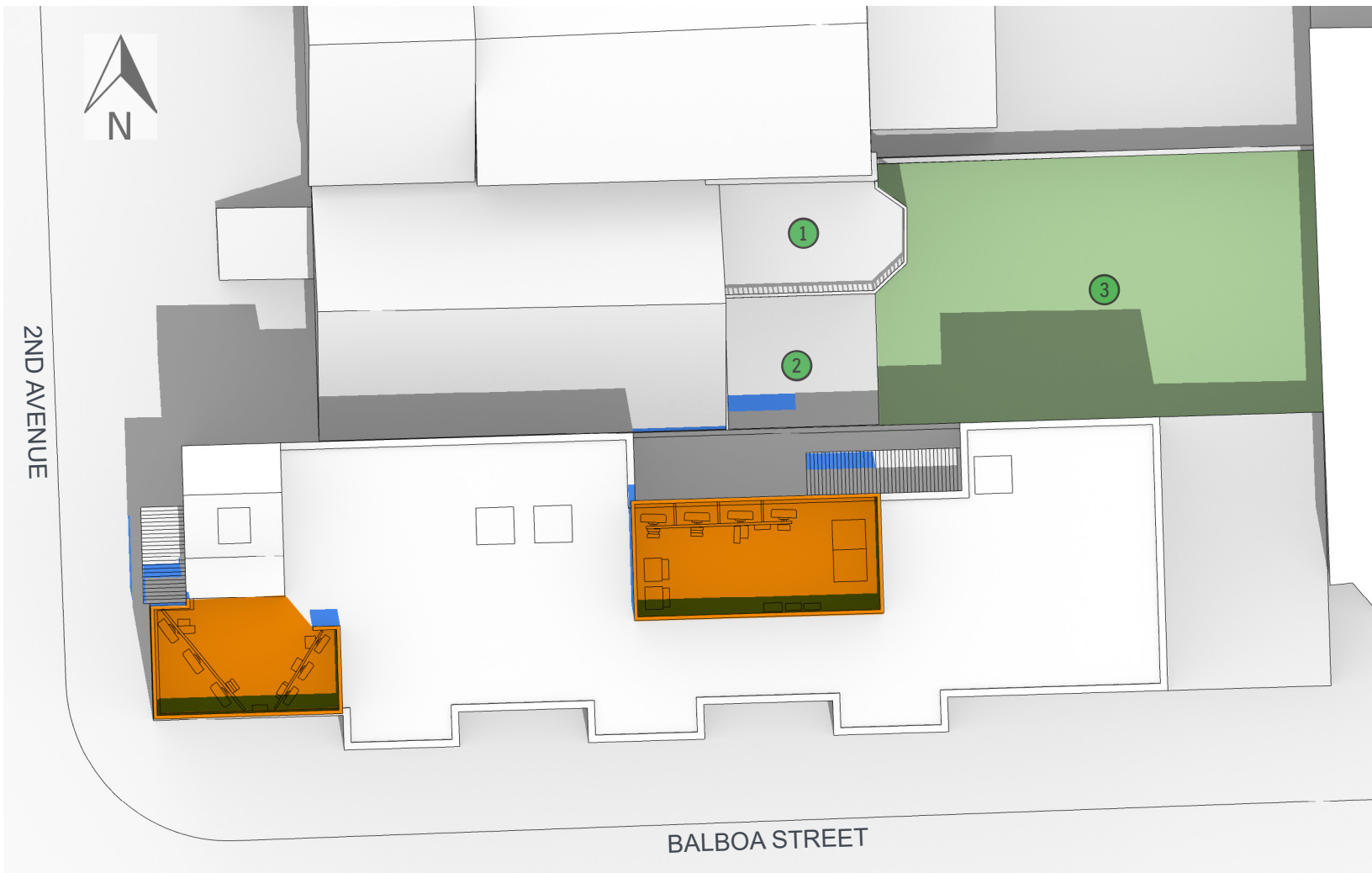
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

SUM-1.8

588 2ND AVENUE

Shading diagrams on the Summer Solstice



**SUMMER SOLSTICE
JUNE 21**

1:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

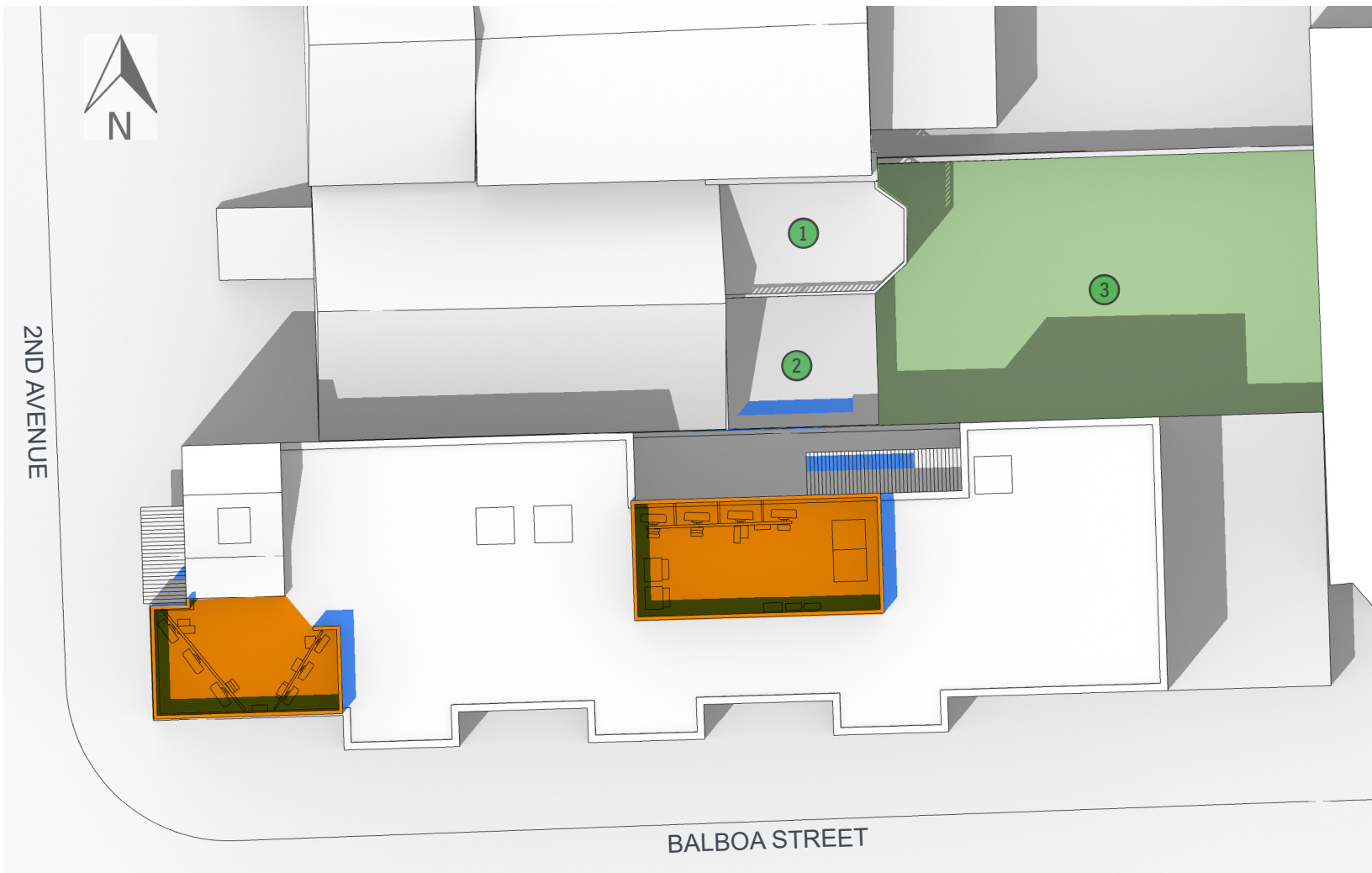
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

SUM-1.9

588 2ND AVENUE

Shading diagrams on the Summer Solstice



SUMMER SOLSTICE
JUNE 21

2:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

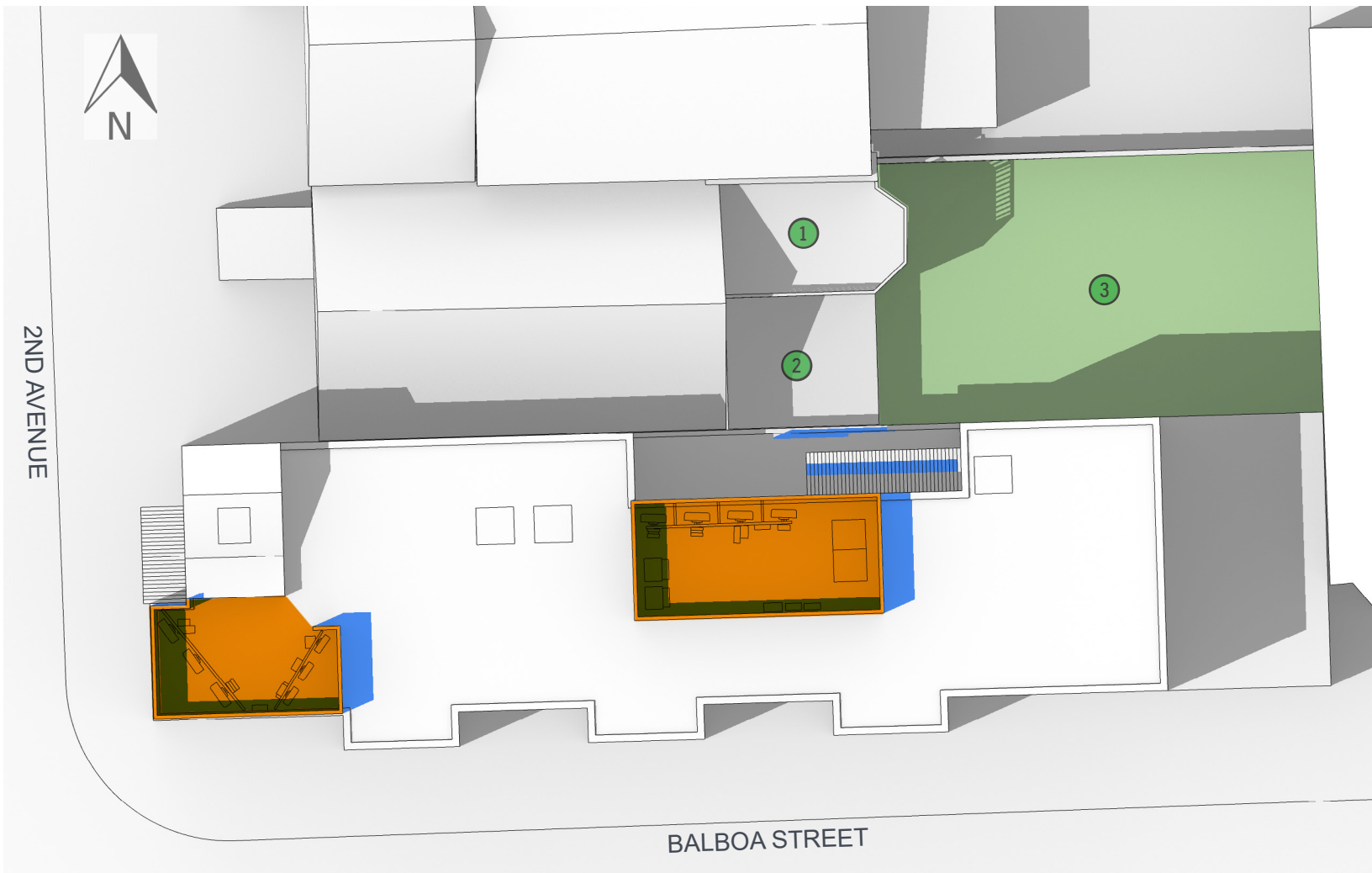
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

SUM-1.10

588 2ND AVENUE

Shading diagrams on the Summer Solstice



**SUMMER SOLSTICE
JUNE 21**

3:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

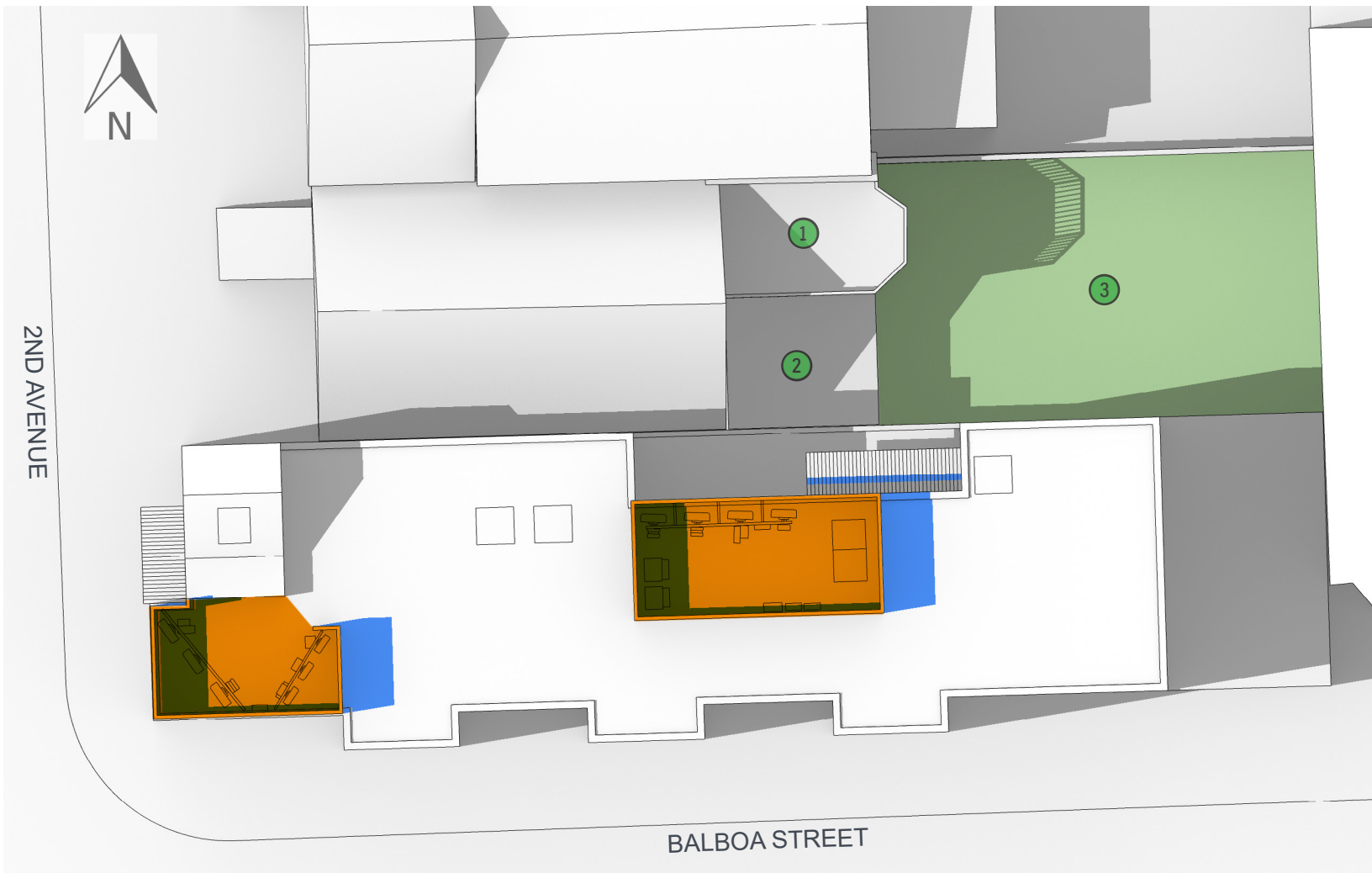
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

SUM-1.11

588 2ND AVENUE

Shading diagrams on the Summer Solstice



SUMMER SOLSTICE
JUNE 21

4:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

SUM-1.12

588 2ND AVENUE

Shading diagrams on the Summer Solstice



**SUMMER SOLSTICE
JUNE 21**

5:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

SUM-1.13

588 2ND AVENUE

Shading diagrams on the Summer Solstice



**SUMMER SOLSTICE
JUNE 21**

6:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

SUM-1.14

588 2ND AVENUE

Shading diagrams on the Summer Solstice



**SUMMER SOLSTICE
JUNE 21**

7:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

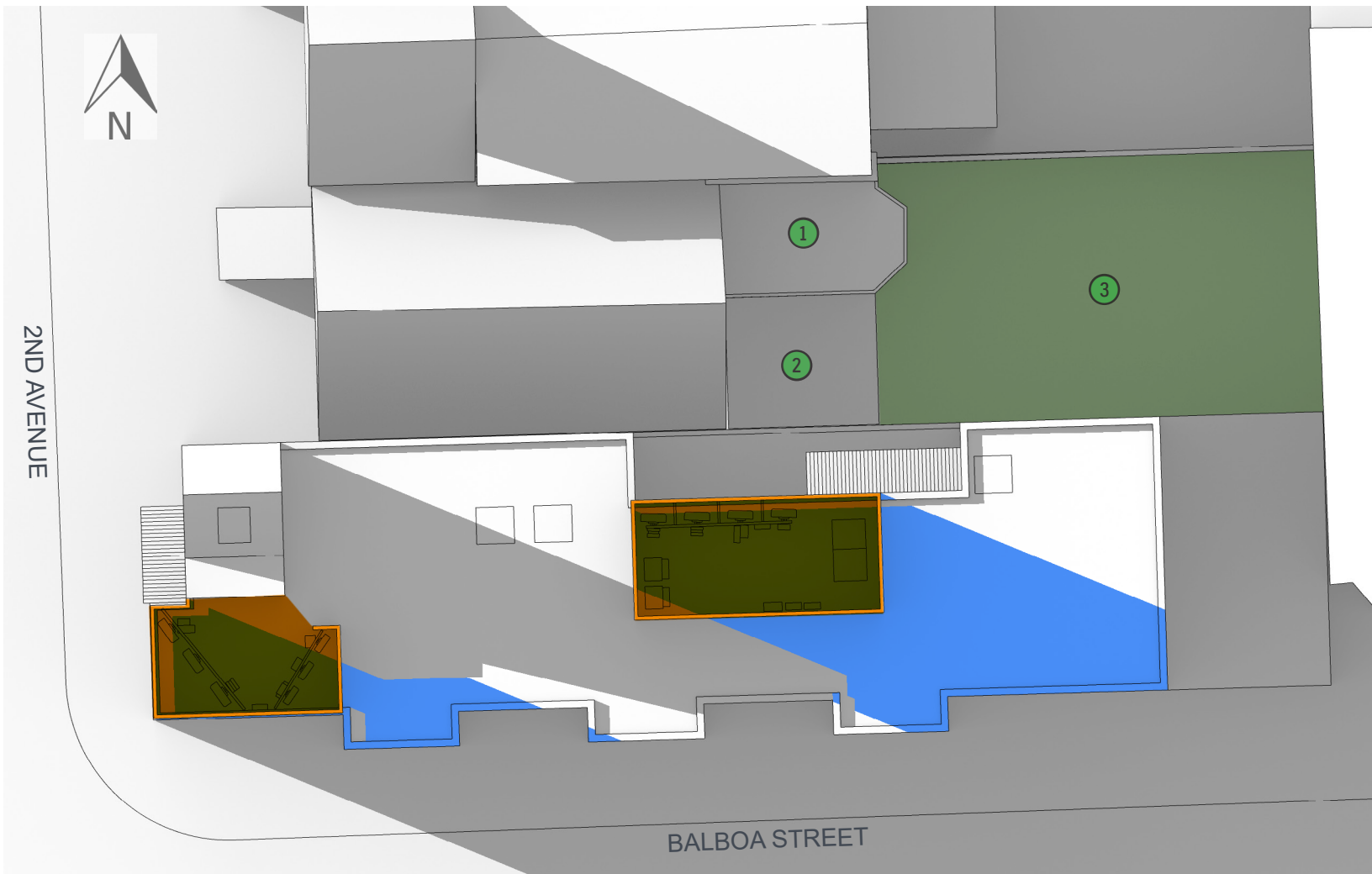
Exterior Features @ 588 2nd Avenue

- ① Upper Deck
- ② Lower Deck Area (exact configuration unclear)
- ③ Rear Yard

SUM-1.15

588 2ND AVENUE

Shading diagrams on the Summer Solstice



**SUMMER SOLSTICE
JUNE 21**

7:36 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

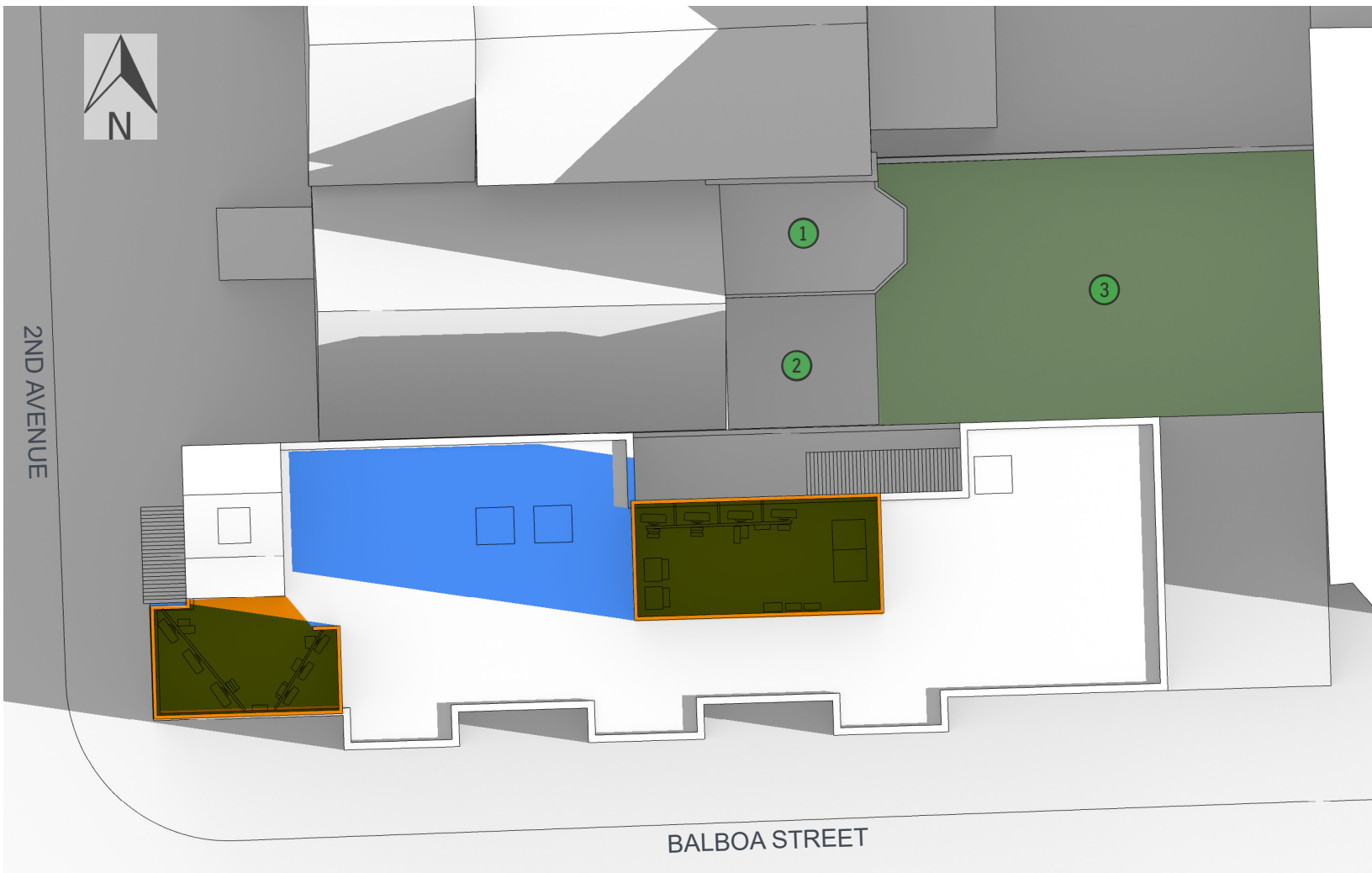
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

FALL-1.1

588 2ND AVENUE

Shading diagrams near the Fall Equinox



APPROX. FALL EQUINOX
SEPTEMBER 20

7:57 AM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

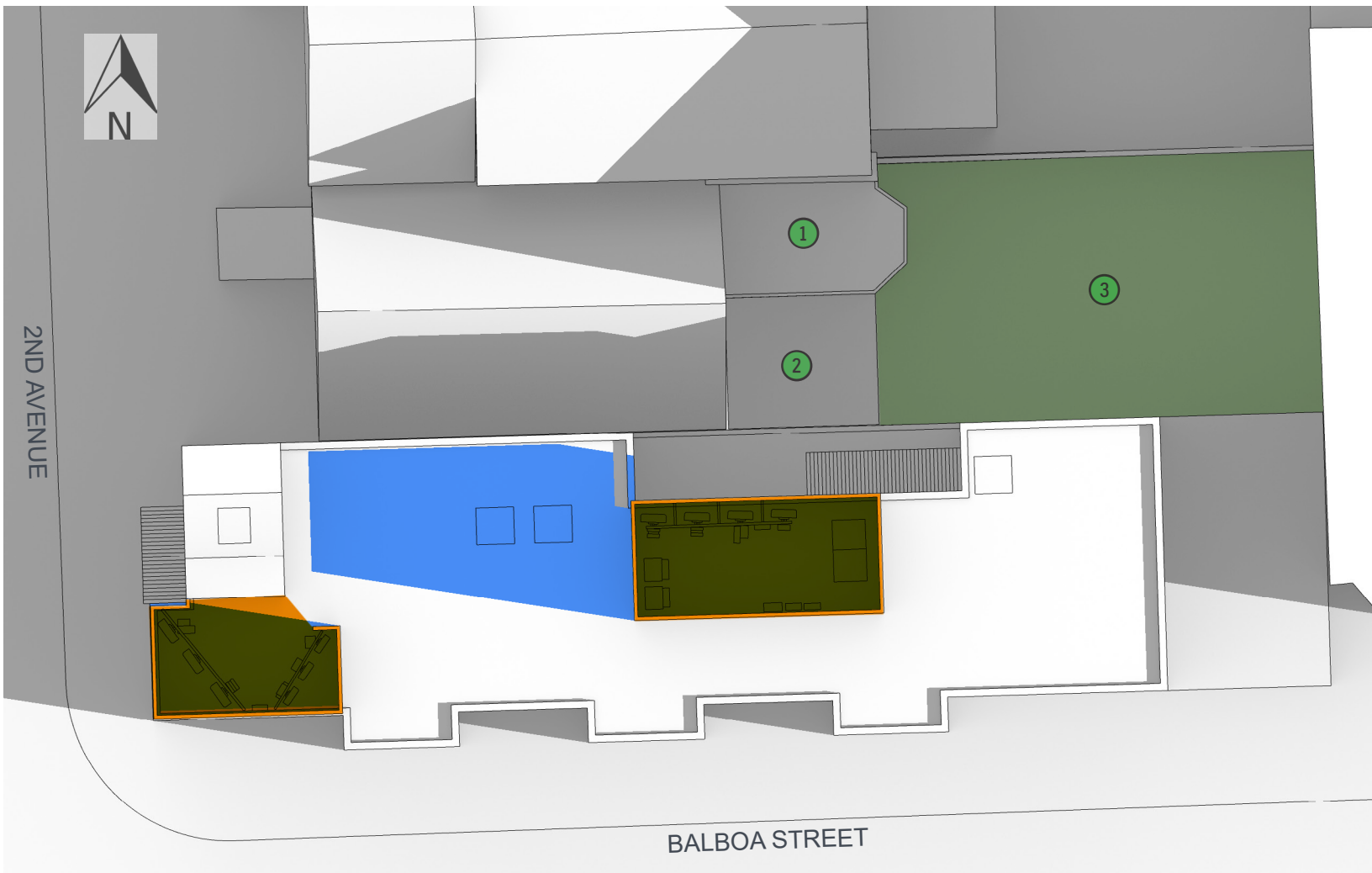
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

FALL-1.2

588 2ND AVENUE

Shading diagrams near the Fall Equinox



APPROX. FALL EQUINOX
SEPTEMBER 20

8:00 AM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

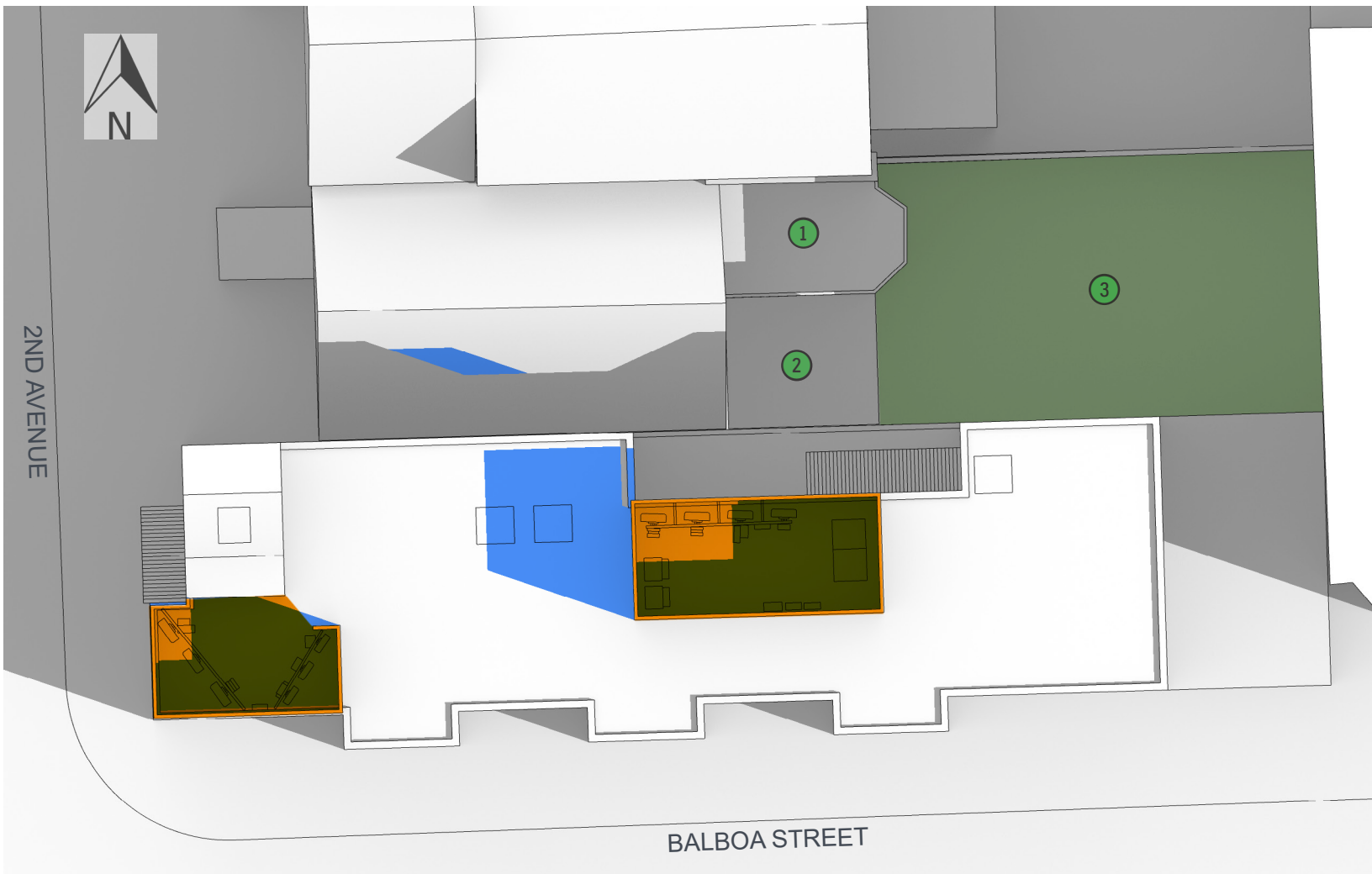
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

FALL-1.3

588 2ND AVENUE

Shading diagrams near the Fall Equinox



APPROX. FALL EQUINOX
SEPTEMBER 20

9:00 AM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

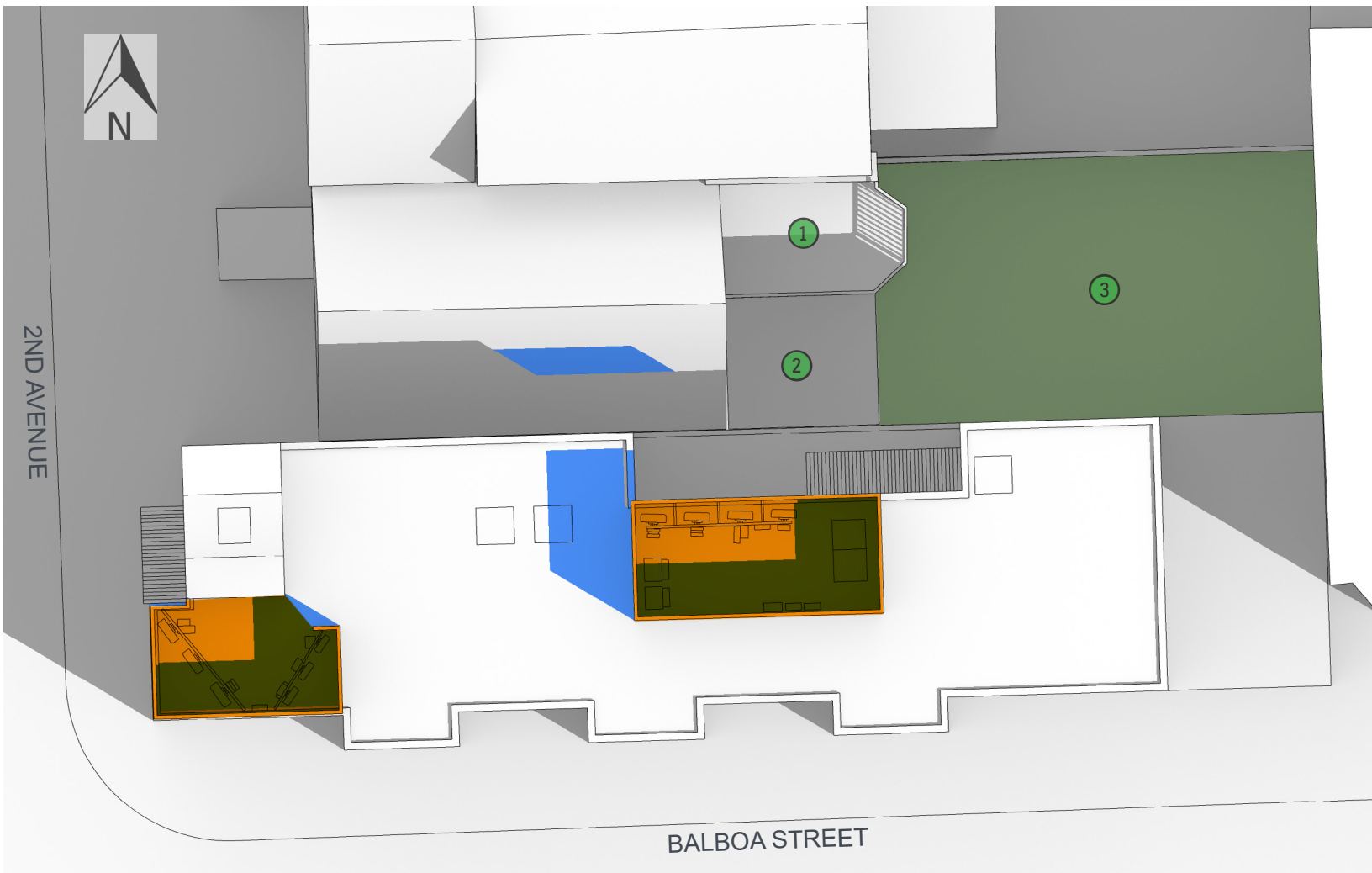
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

FALL-1.4

588 2ND AVENUE

Shading diagrams near the Fall Equinox



APPROX. FALL EQUINOX
SEPTEMBER 20

10:00 AM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

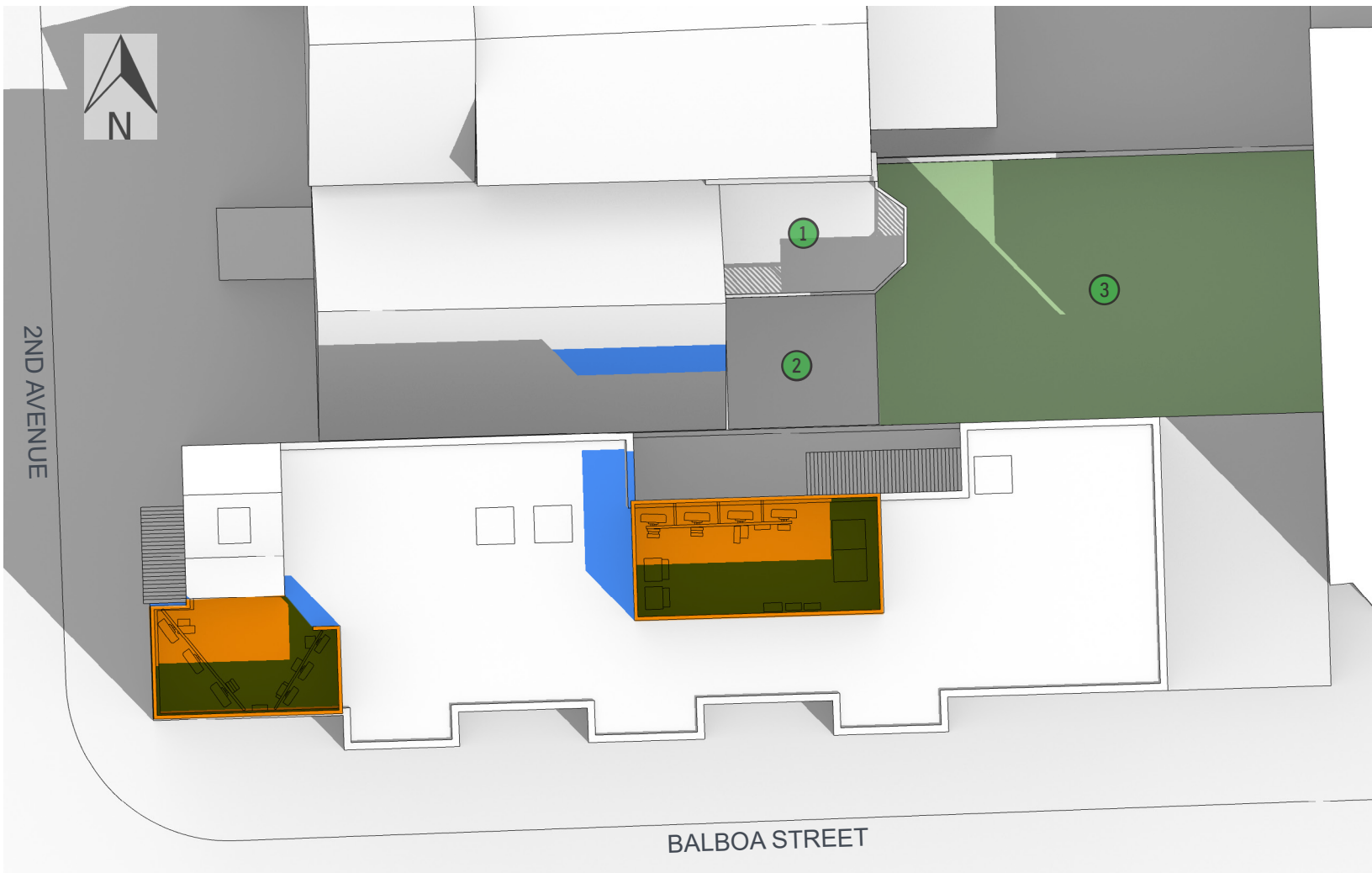
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

FALL-1.5

588 2ND AVENUE

Shading diagrams near the Fall Equinox



APPROX. FALL EQUINOX
SEPTEMBER 20

11:00 AM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

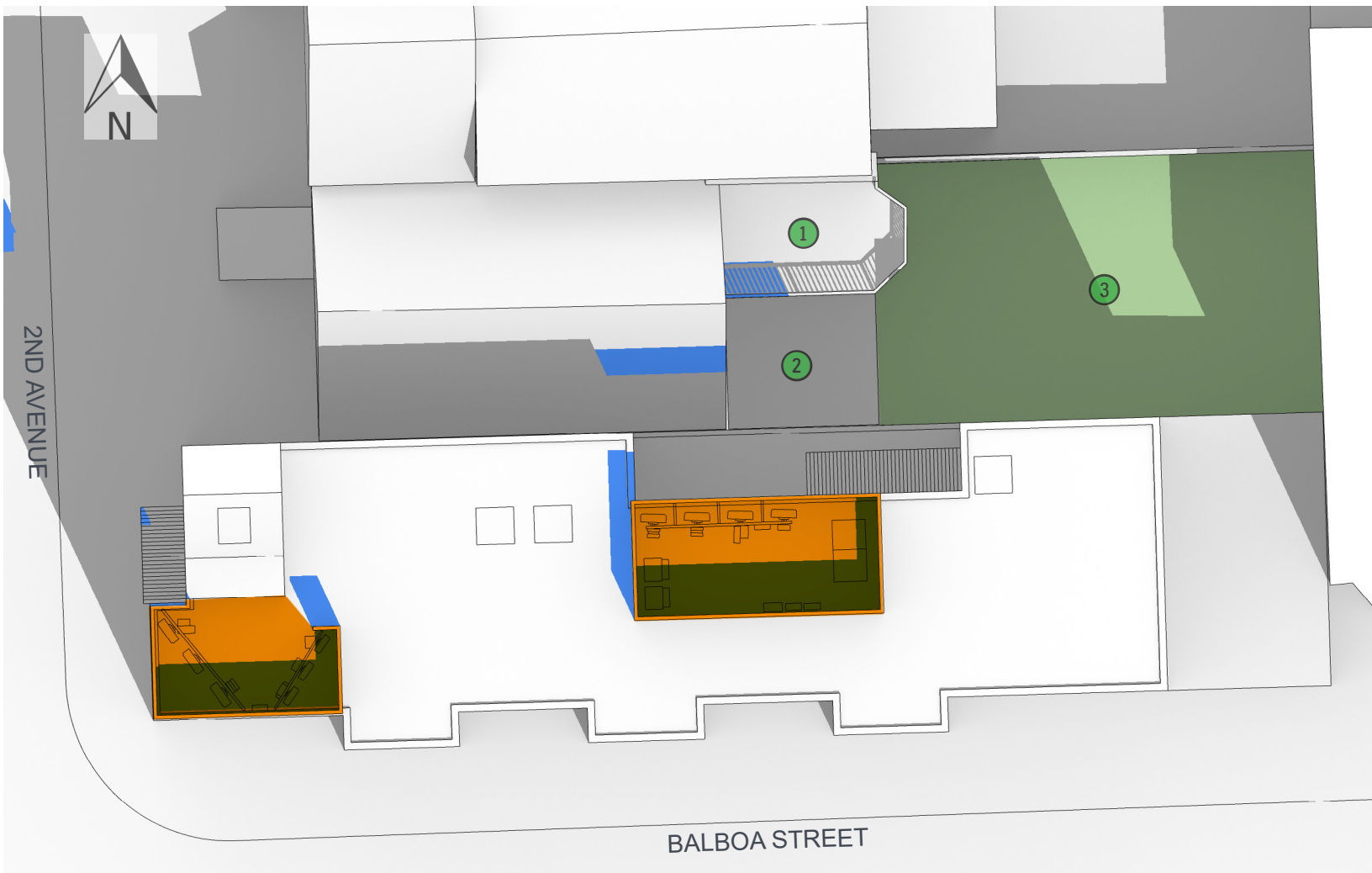
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

FALL-1.6

588 2ND AVENUE

Shading diagrams near the Fall Equinox



APPROX. FALL EQUINOX
SEPTEMBER 20

12:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

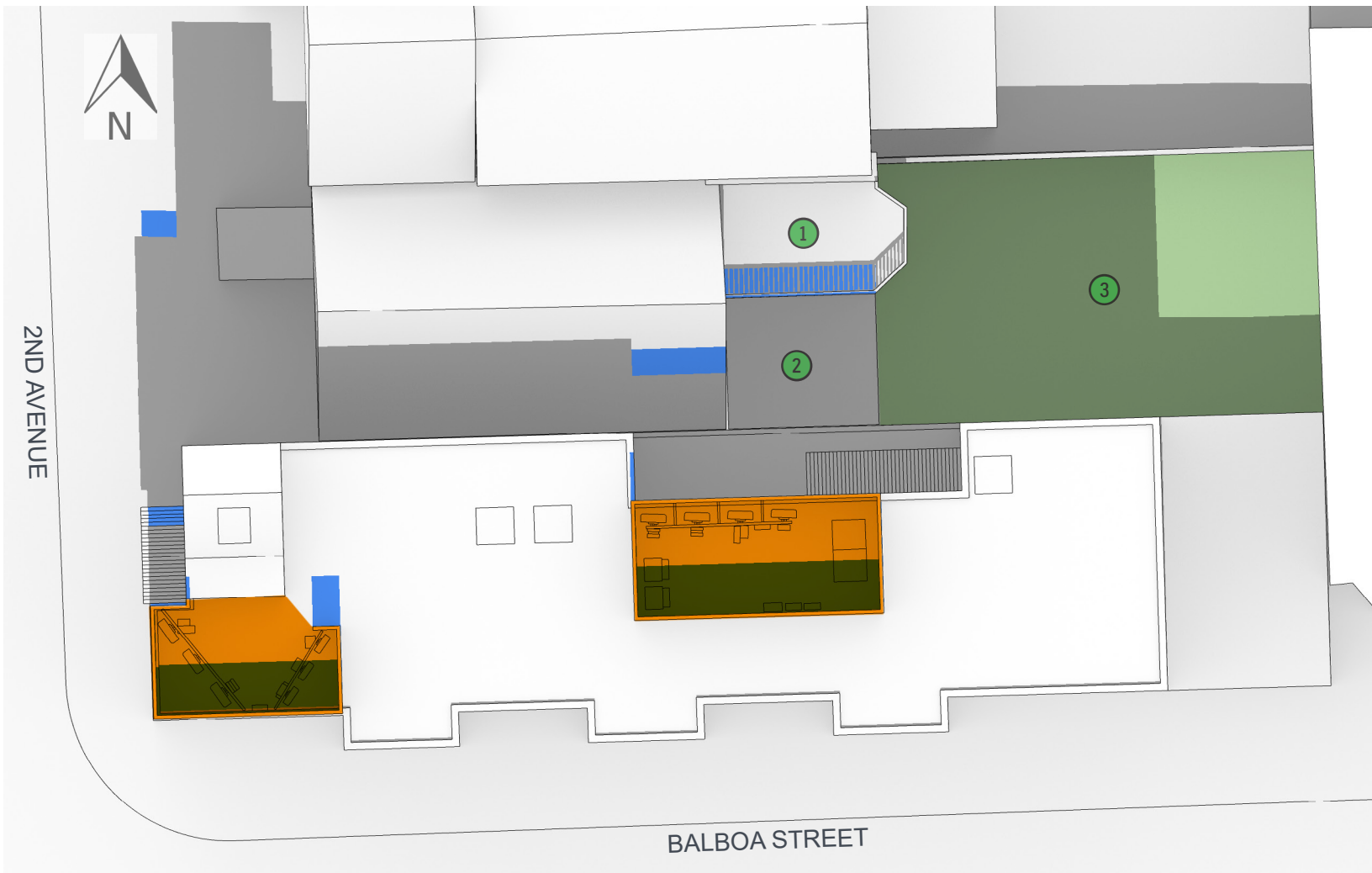
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

FALL-1.7

588 2ND AVENUE

Shading diagrams near the Fall Equinox



APPROX. FALL EQUINOX
SEPTEMBER 20

1:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

FALL-1.8

588 2ND AVENUE

Shading diagrams near the Fall Equinox



APPROX. FALL EQUINOX
SEPTEMBER 20

2:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

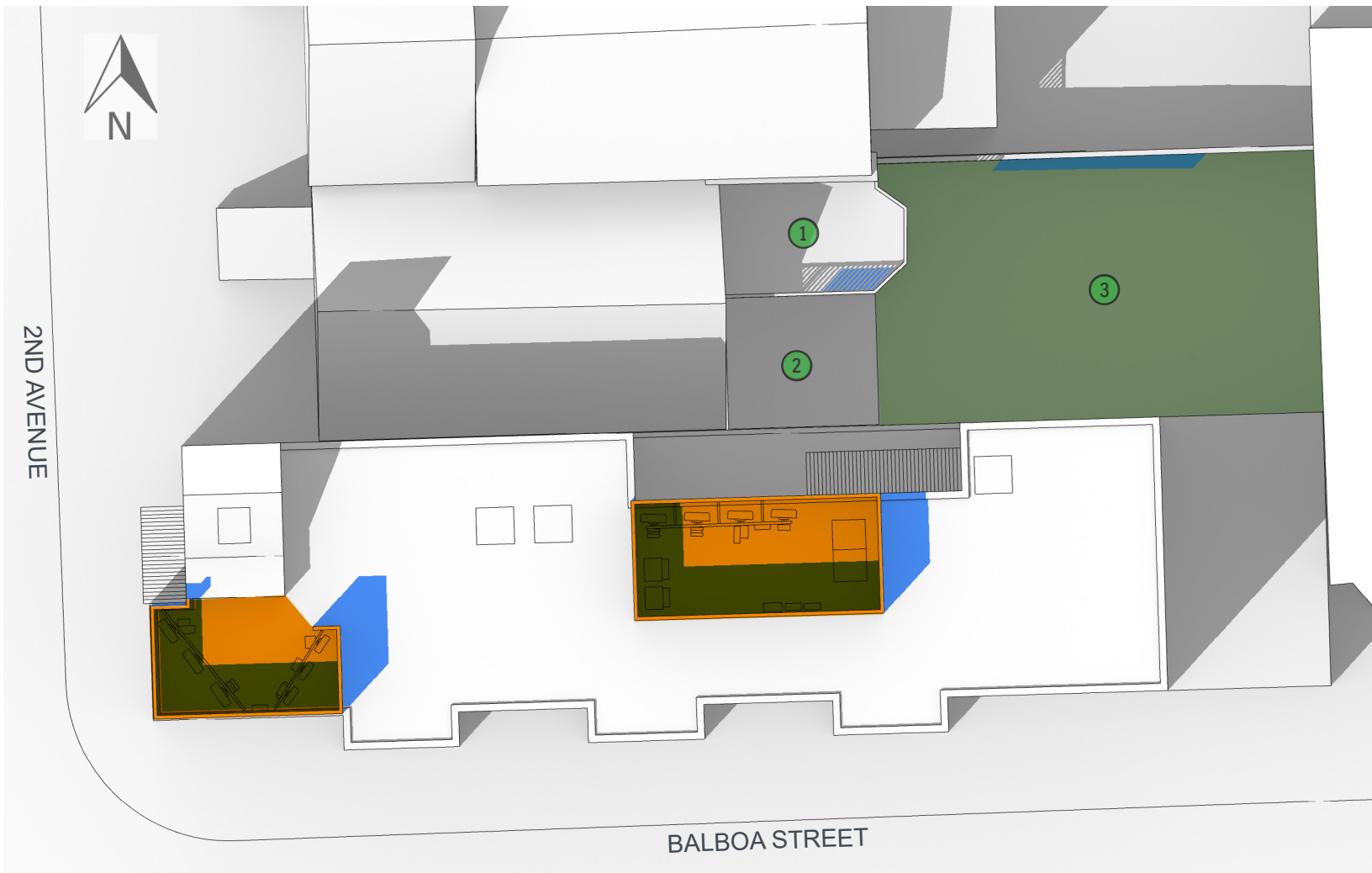
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

FALL-1.9

588 2ND AVENUE

Shading diagrams near the Fall Equinox



APPROX. FALL EQUINOX
SEPTEMBER 20

3:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

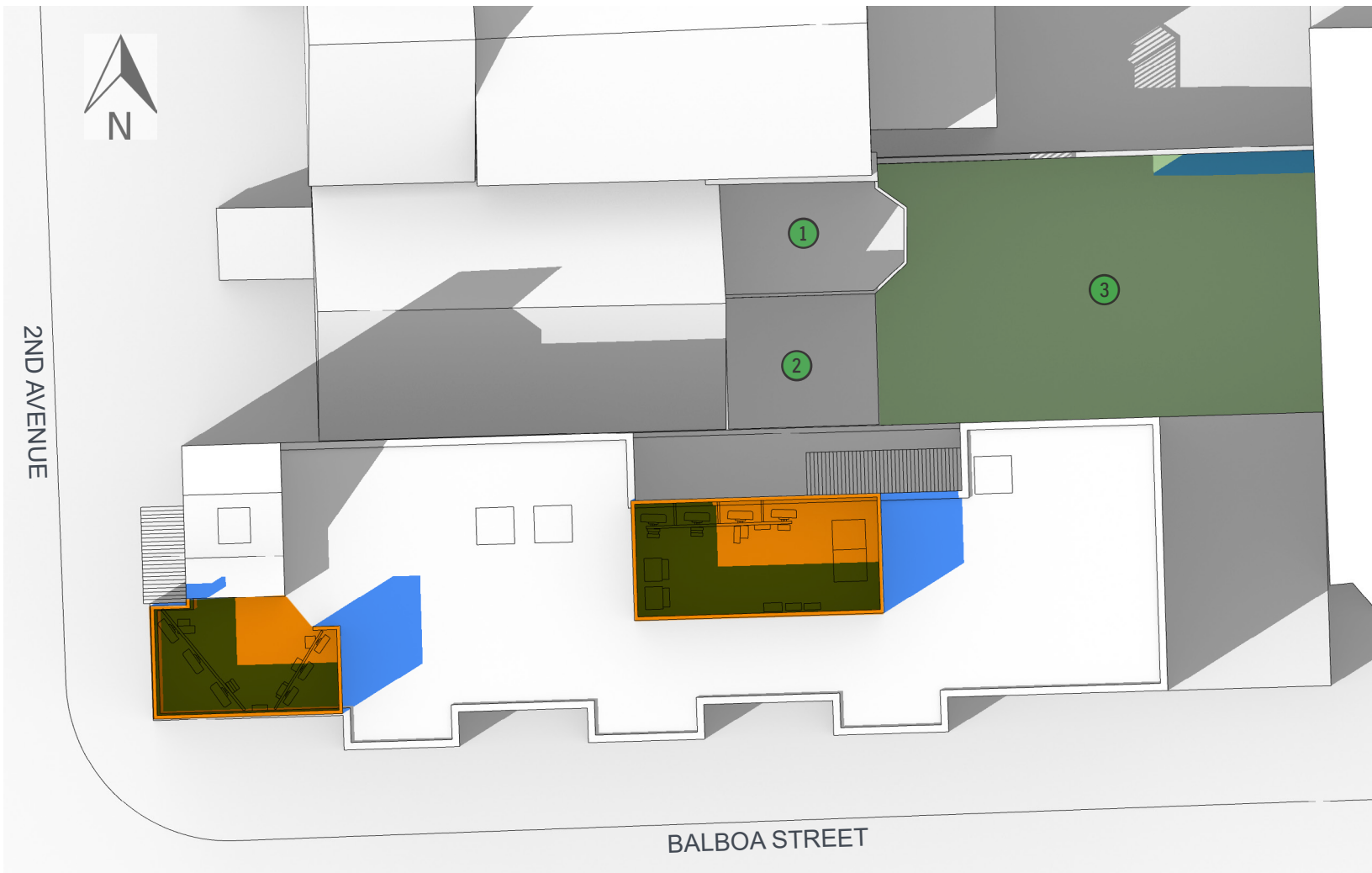
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

FALL-1.10

588 2ND AVENUE

Shading diagrams near the Fall Equinox



APPROX. FALL EQUINOX
SEPTEMBER 20

4:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

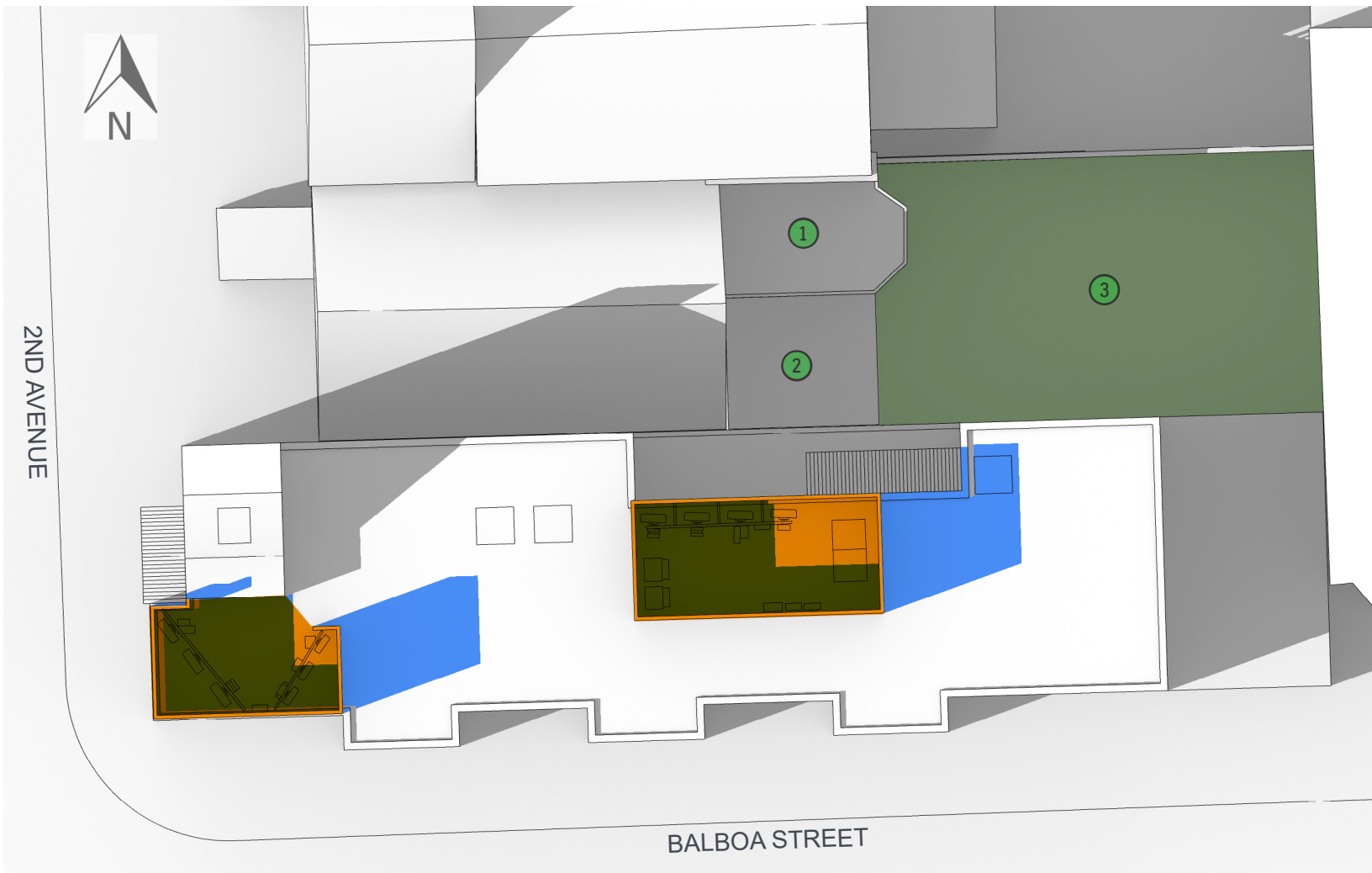
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

FALL-1.11

588 2ND AVENUE

Shading diagrams near the Fall Equinox



APPROX. FALL EQUINOX
SEPTEMBER 20

5:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

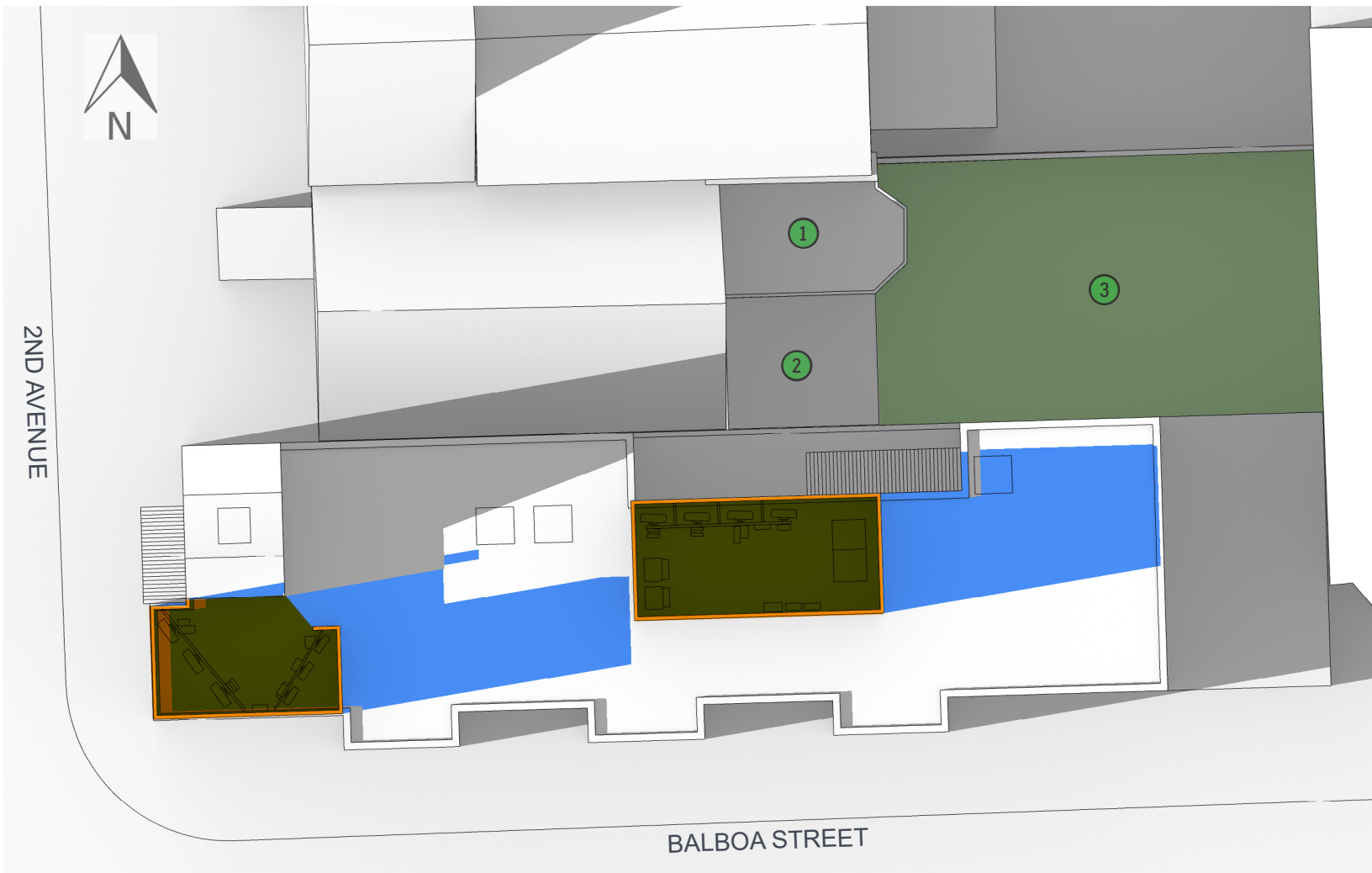
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

FALL-1.12

588 2ND AVENUE

Shading diagrams near the Fall Equinox



APPROX. FALL EQUINOX
SEPTEMBER 20

6:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

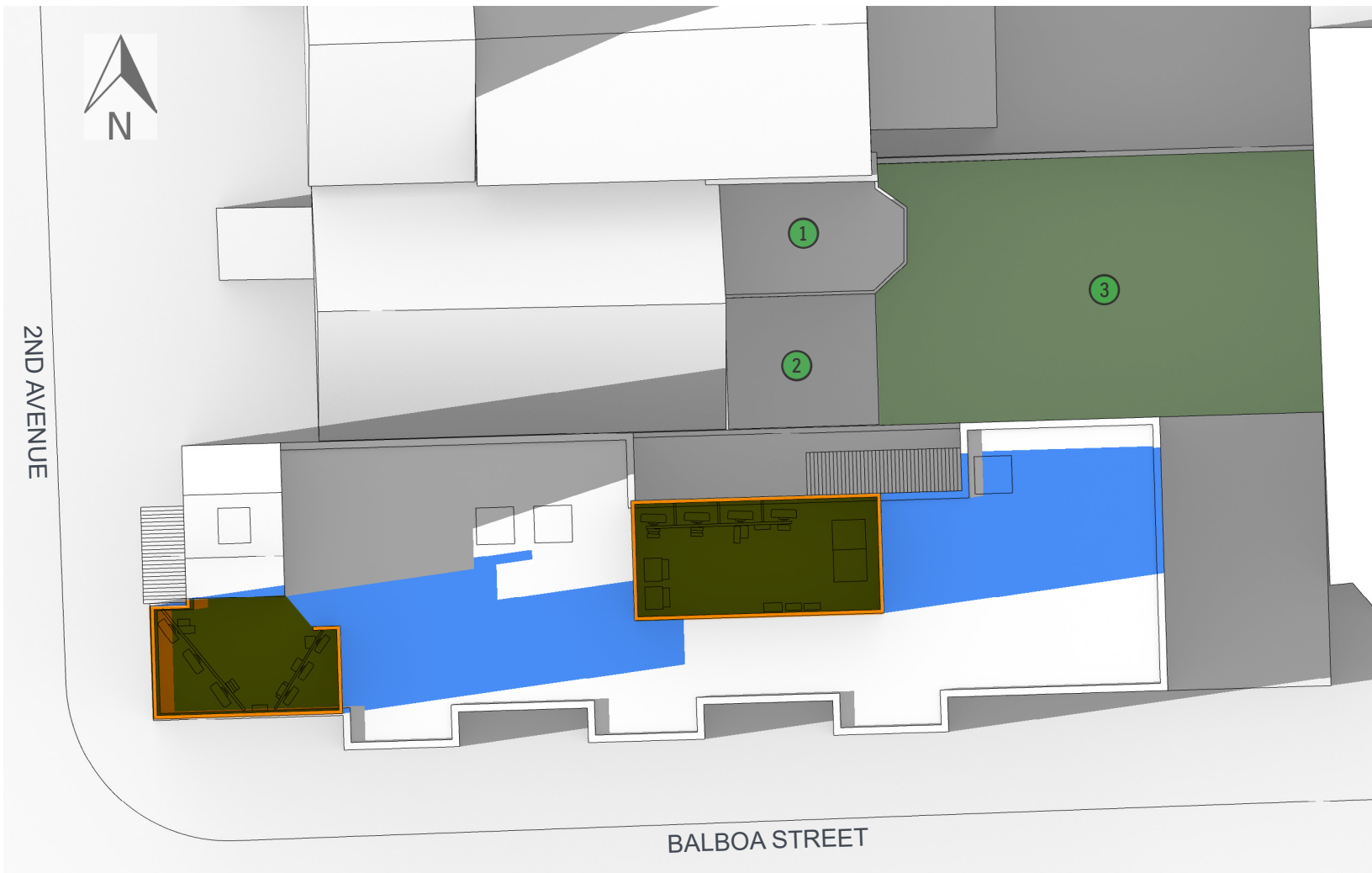
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

FALL-1.13

588 2ND AVENUE

Shading diagrams near the Fall Equinox



APPROX. FALL EQUINOX
SEPTEMBER 20

6:09 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

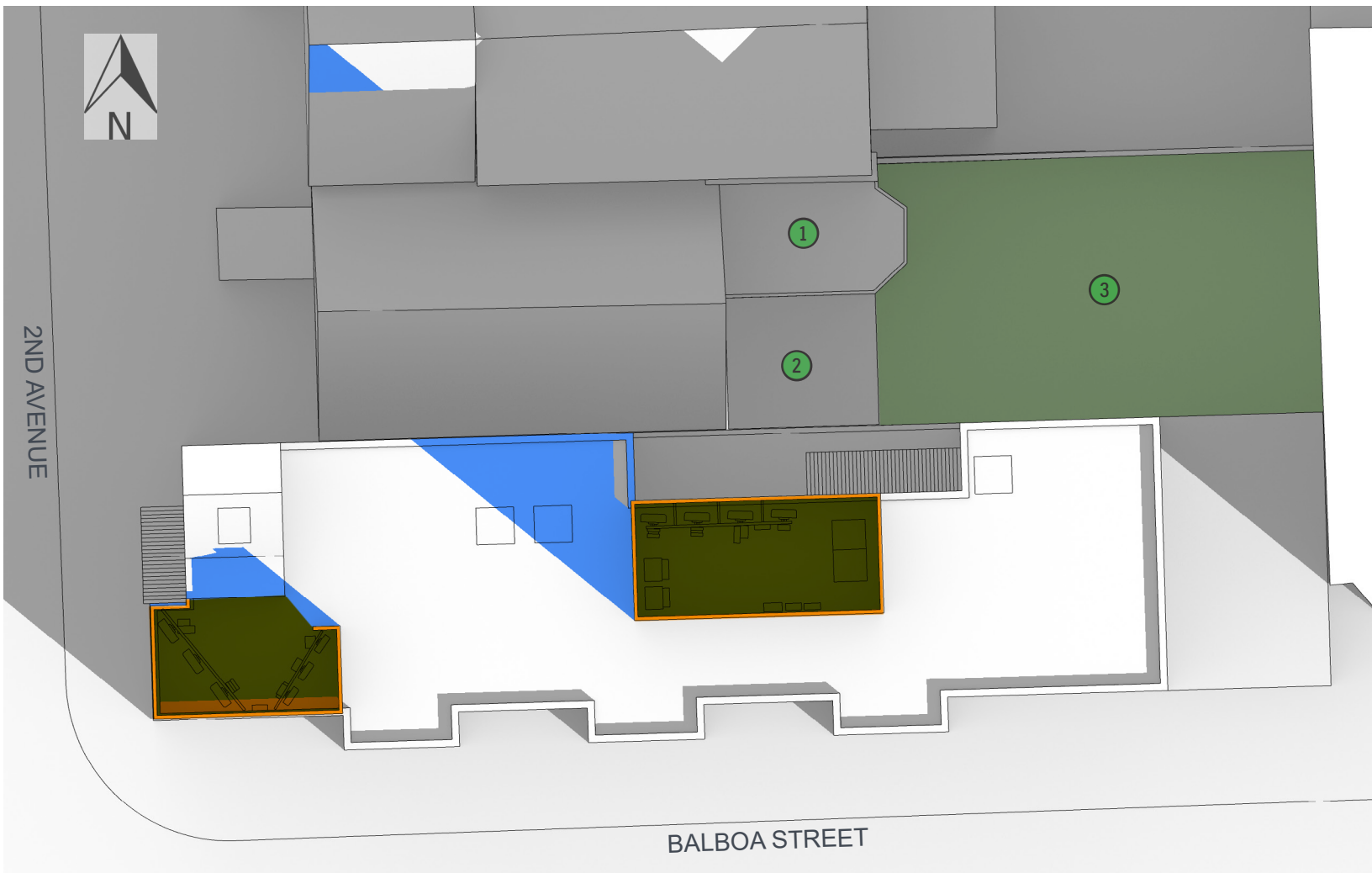
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

WIN-1.1

588 2ND AVENUE

Shading diagrams on the Winter Solstice



WINTER SOLSTICE
DECEMBER 20

8:19 AM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

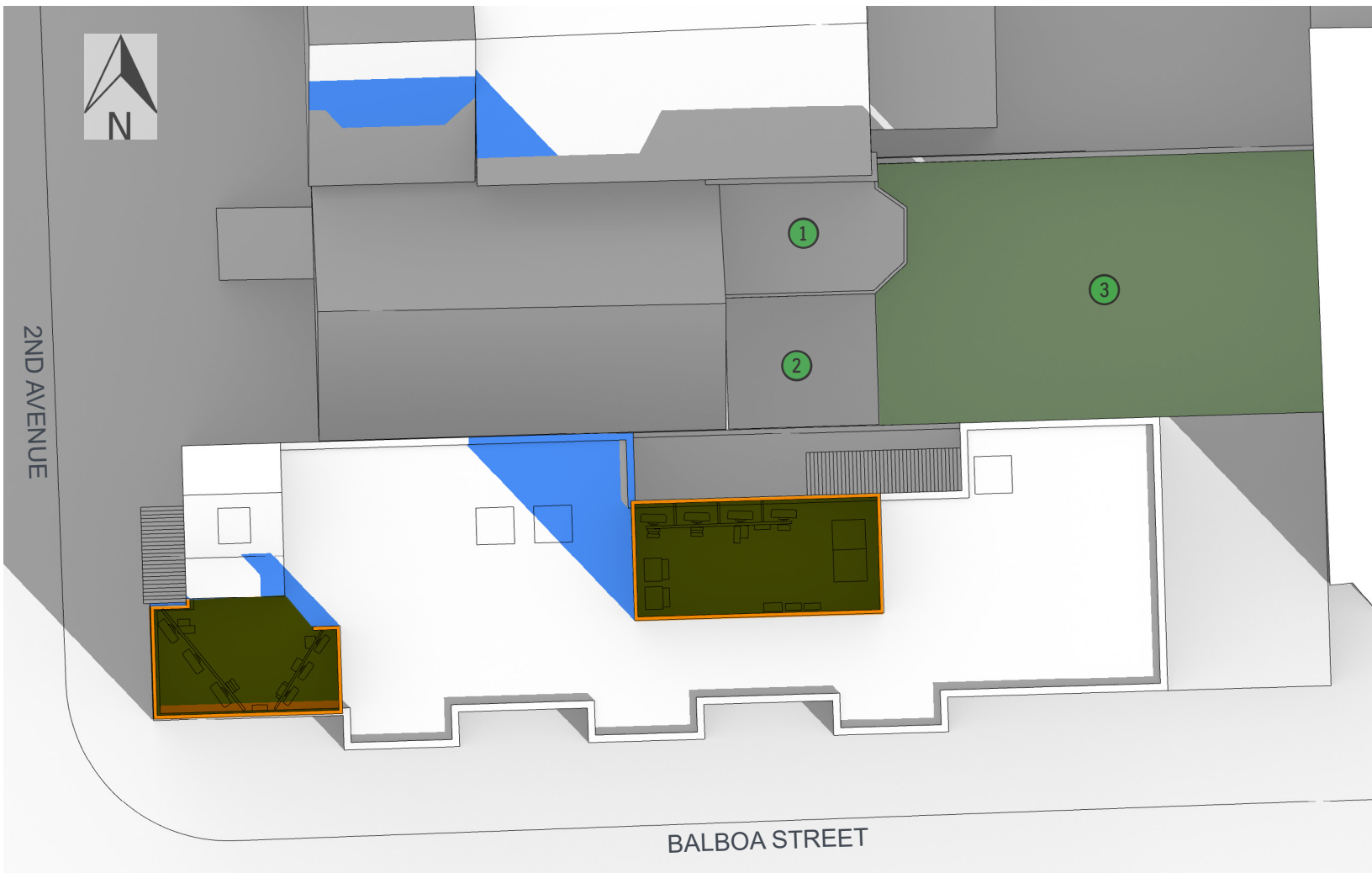
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

WIN-1.2

588 2ND AVENUE

Shading diagrams on the Winter Solstice



WINTER SOLSTICE
DECEMBER 20

9:00 AM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

WIN-1.3

588 2ND AVENUE

Shading diagrams on the Winter Solstice



WINTER SOLSTICE
DECEMBER 20

10:00 AM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

WIN-1.4

588 2ND AVENUE

Shading diagrams on the Winter Solstice



WINTER SOLSTICE
DECEMBER 20

11:00 AM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

WIN-1.5

588 2ND AVENUE

Shading diagrams on the Winter Solstice



WINTER SOLSTICE
DECEMBER 20

12:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

WIN-1.6

588 2ND AVENUE

Shading diagrams on the Winter Solstice



WINTER SOLSTICE
DECEMBER 20

1:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

WIN-1.7

588 2ND AVENUE

Shading diagrams on the Winter Solstice



WINTER SOLSTICE
DECEMBER 20

2:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

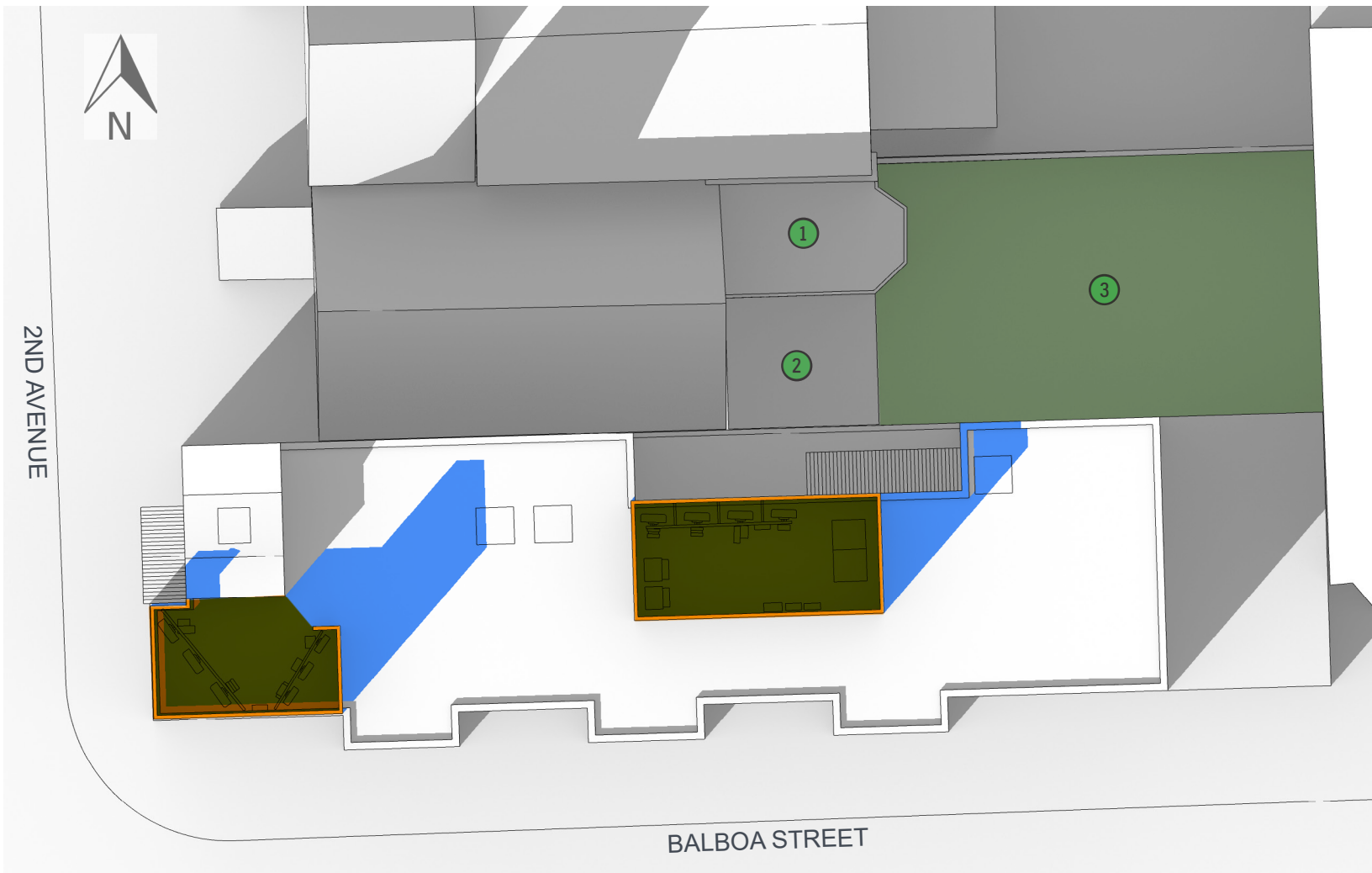
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

WIN-1.8

588 2ND AVENUE

Shading diagrams on the Winter Solstice



WINTER SOLSTICE
DECEMBER 20

3:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

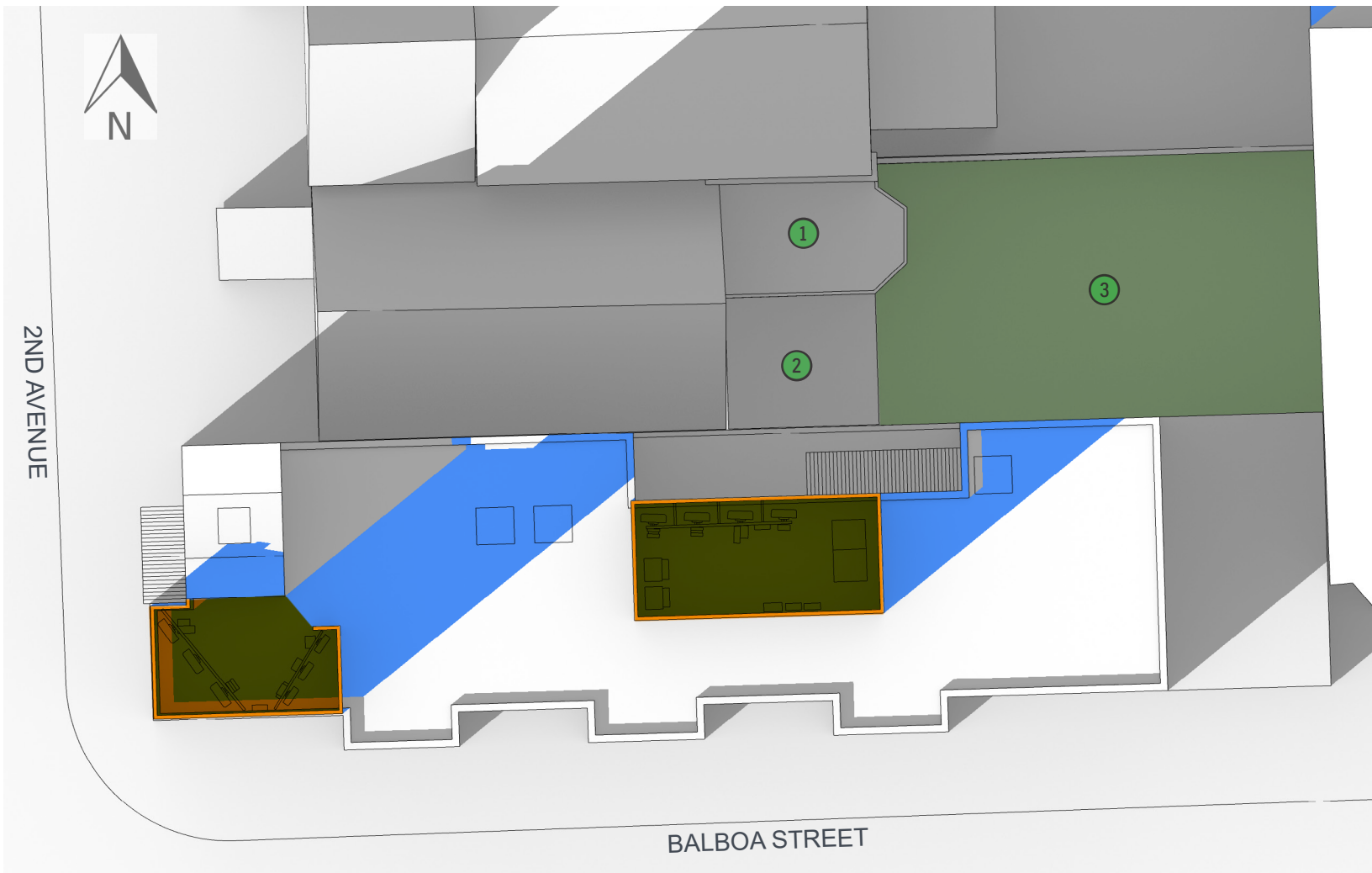
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

WIN-1.9

588 2ND AVENUE

Shading diagrams on the Winter Solstice



WINTER SOLSTICE
DECEMBER 20

3:54 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

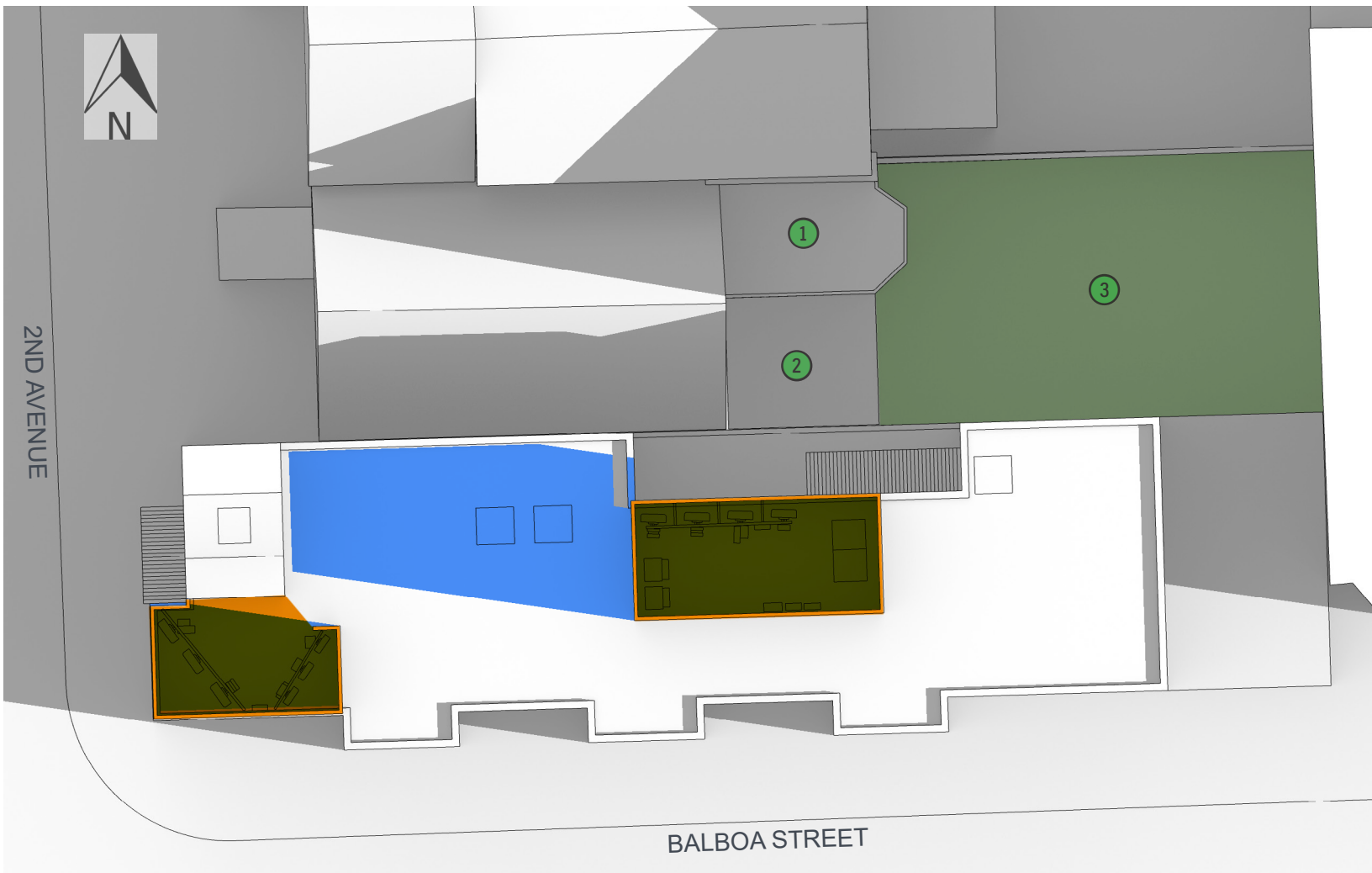
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

SPR-1.1

588 2ND AVENUE

Shading diagrams near the Spring Equinox



APPROX. SPRING EQUINOX
MARCH 23

7:57 AM

-  Proposed Rooftop Enclosures
-  Existing (current) Shadows
-  Net New Shadow from Proposed Enclosures

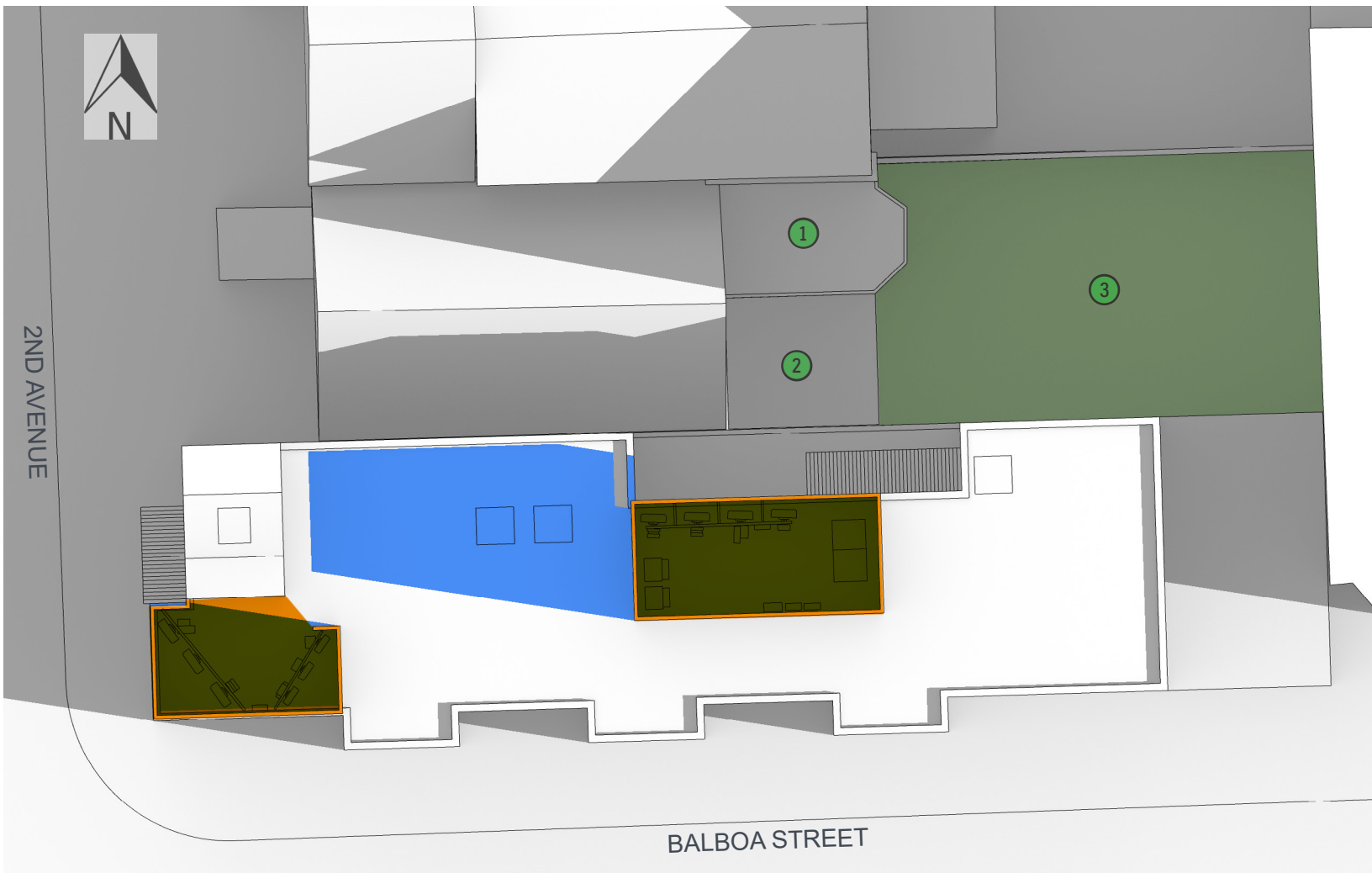
Exterior Features @ 588 2nd Avenue

-  1 Upper Deck
-  2 Lower Deck Area (exact configuration unclear)
-  3 Rear Yard

SPR-1.2

588 2ND AVENUE

Shading diagrams near the Spring Equinox



APPROX. SPRING EQUINOX
MARCH 23

8:00 AM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

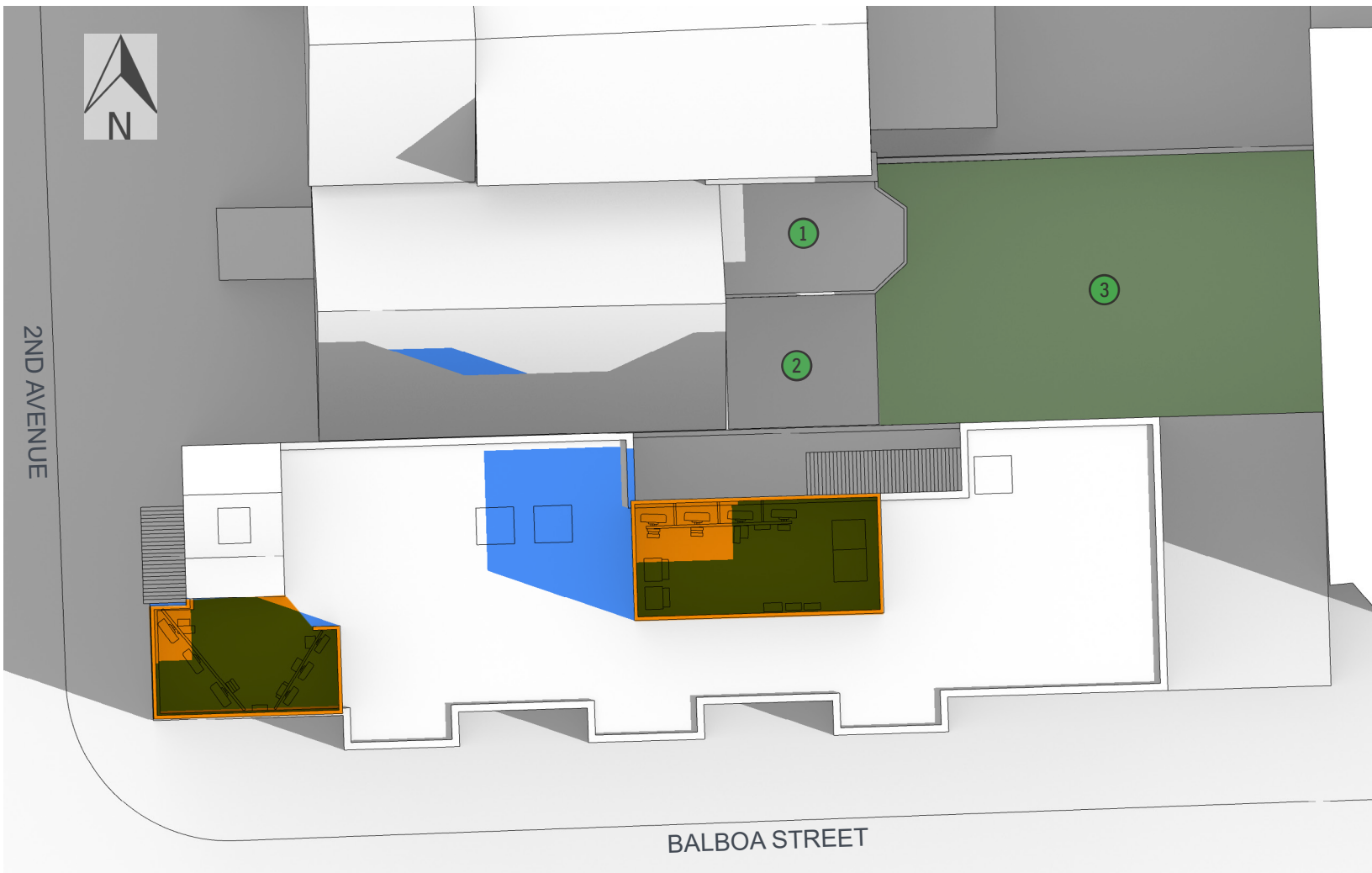
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

SPR-1.3

588 2ND AVENUE

Shading diagrams near the Spring Equinox



APPROX. SPRING EQUINOX
MARCH 23

9:00 AM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

SPR-1.4

588 2ND AVENUE

Shading diagrams near the Spring Equinox



APPROX. SPRING EQUINOX
MARCH 23

10:00 AM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

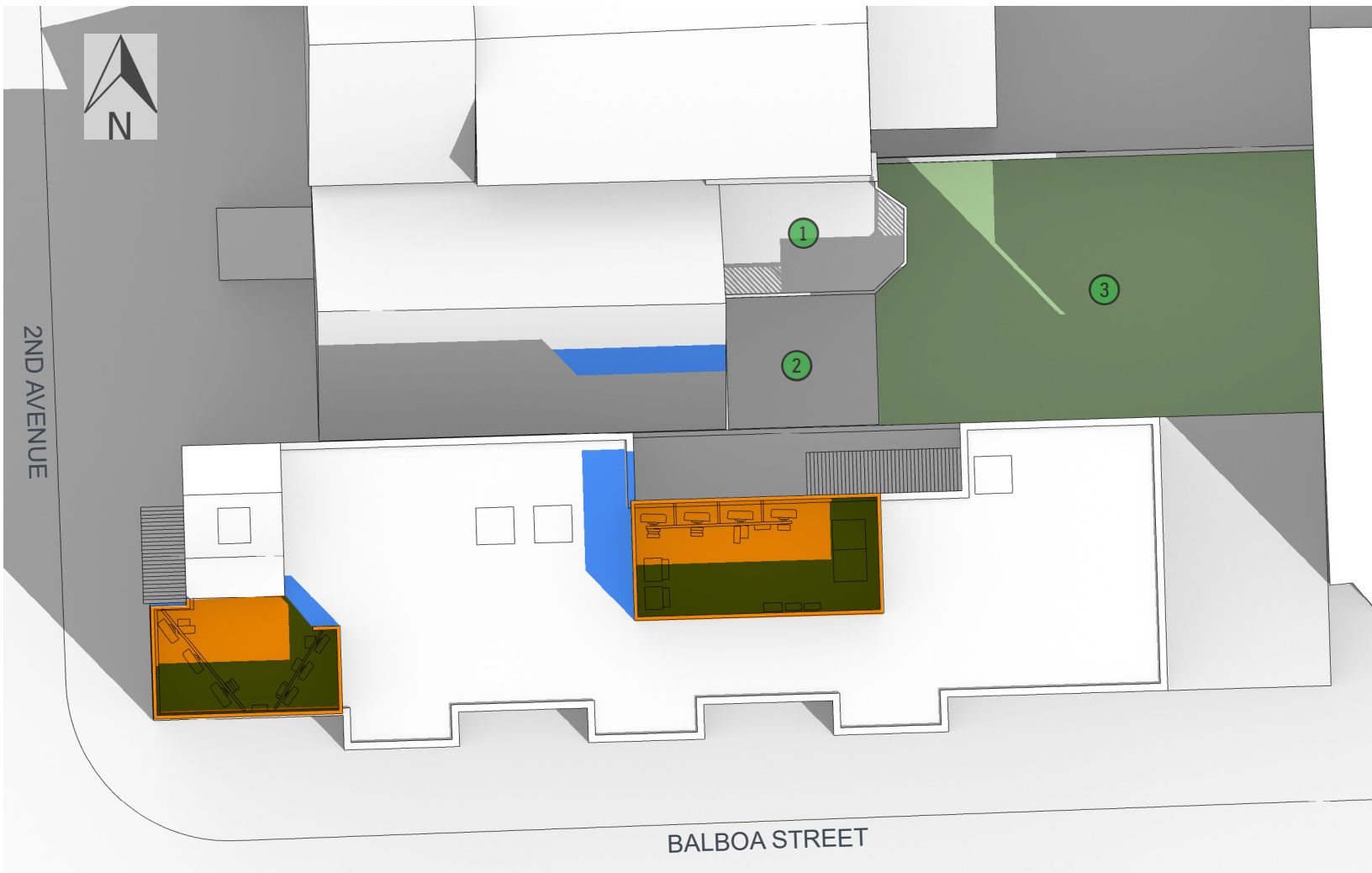
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

SPR-1.5

588 2ND AVENUE

Shading diagrams near the Spring Equinox



APPROX. SPRING EQUINOX
MARCH 23

11:00 AM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

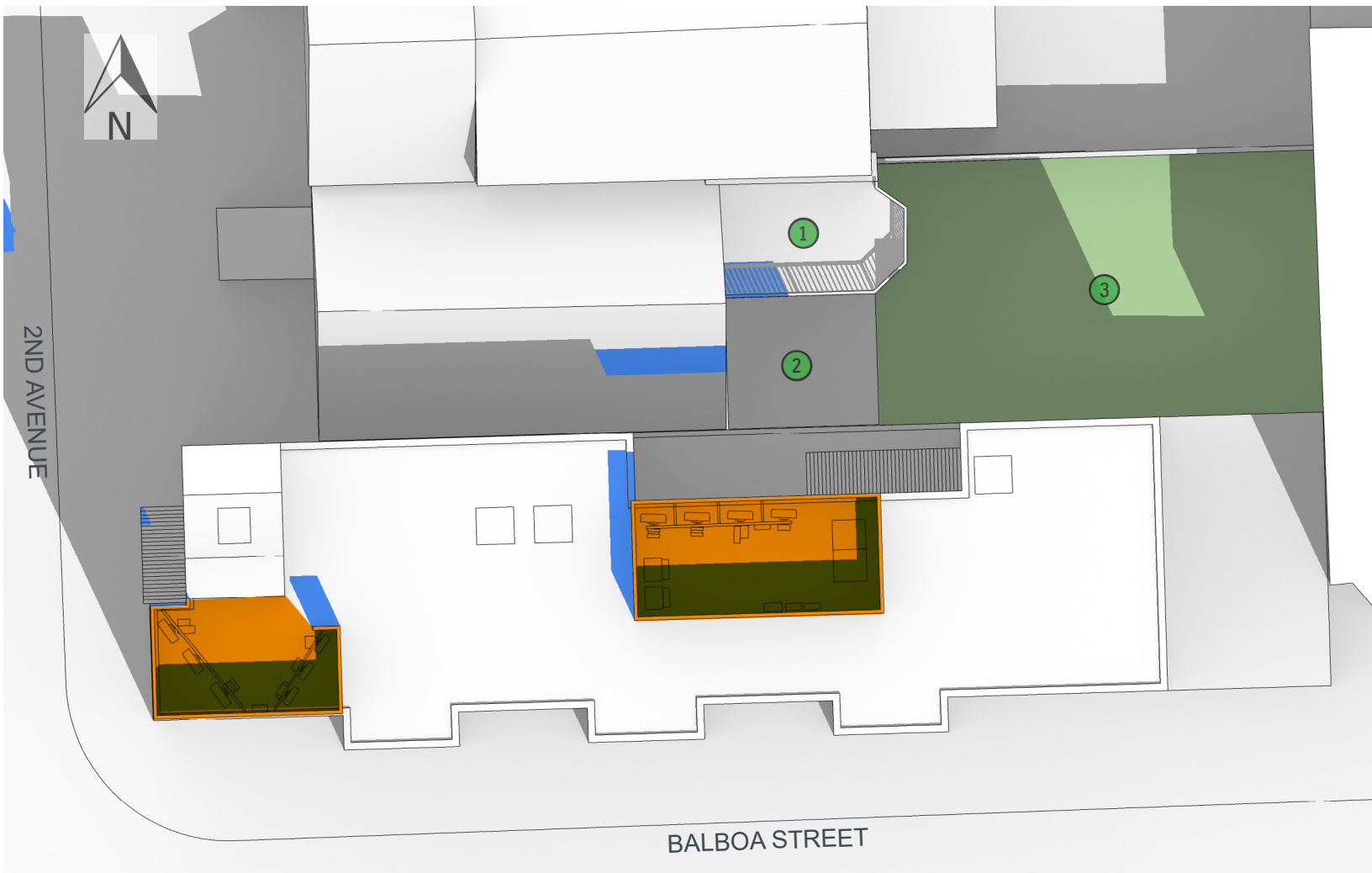
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

SPR-1.6

588 2ND AVENUE

Shading diagrams near the Spring Equinox



APPROX. SPRING EQUINOX
MARCH 23

12:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

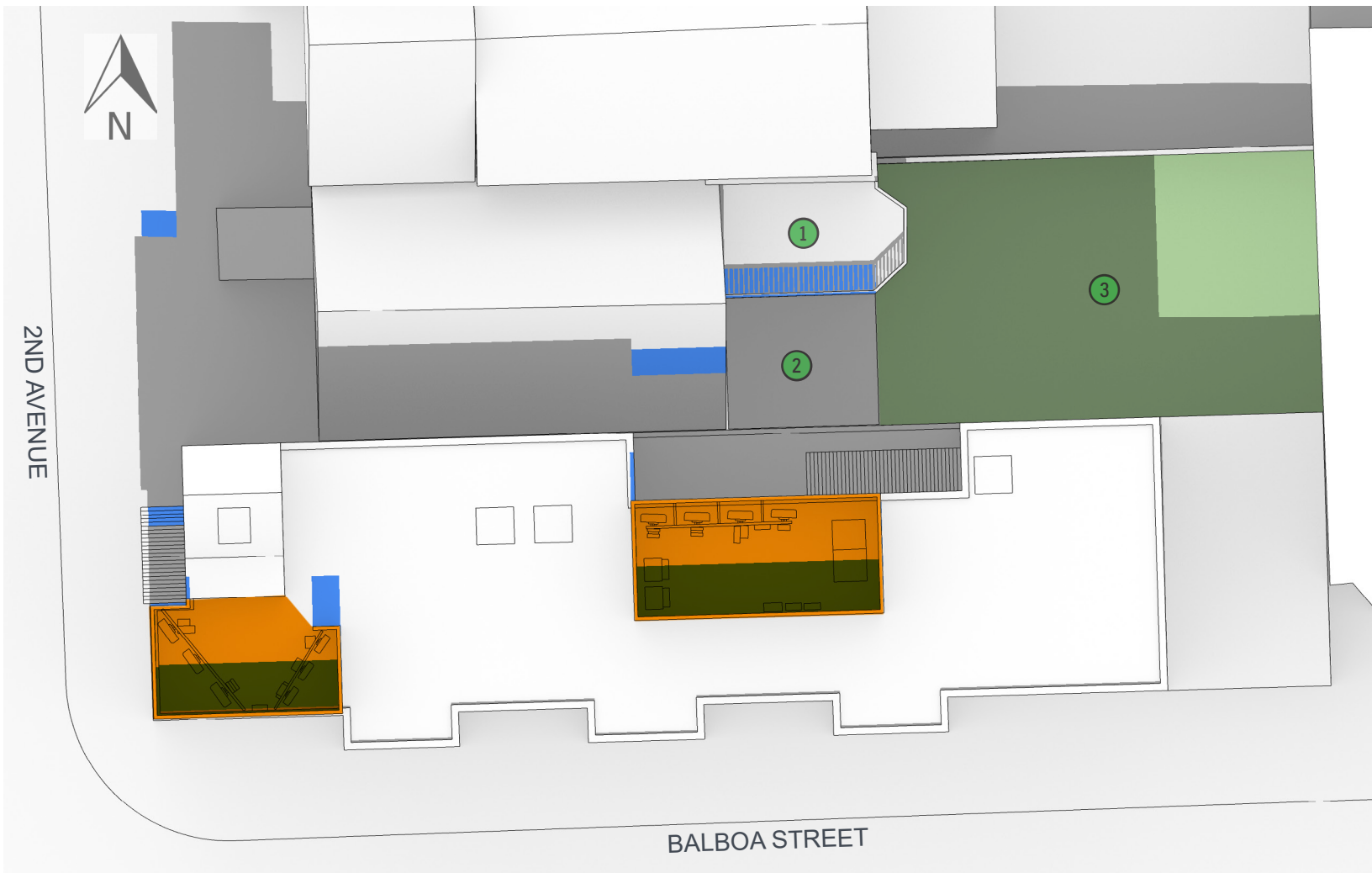
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

SPR-1.7

588 2ND AVENUE

Shading diagrams near the Spring Equinox



APPROX. SPRING EQUINOX
MARCH 23

1:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

SPR-1.8

588 2ND AVENUE

Shading diagrams near the Spring Equinox



APPROX. SPRING EQUINOX
MARCH 23

2:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

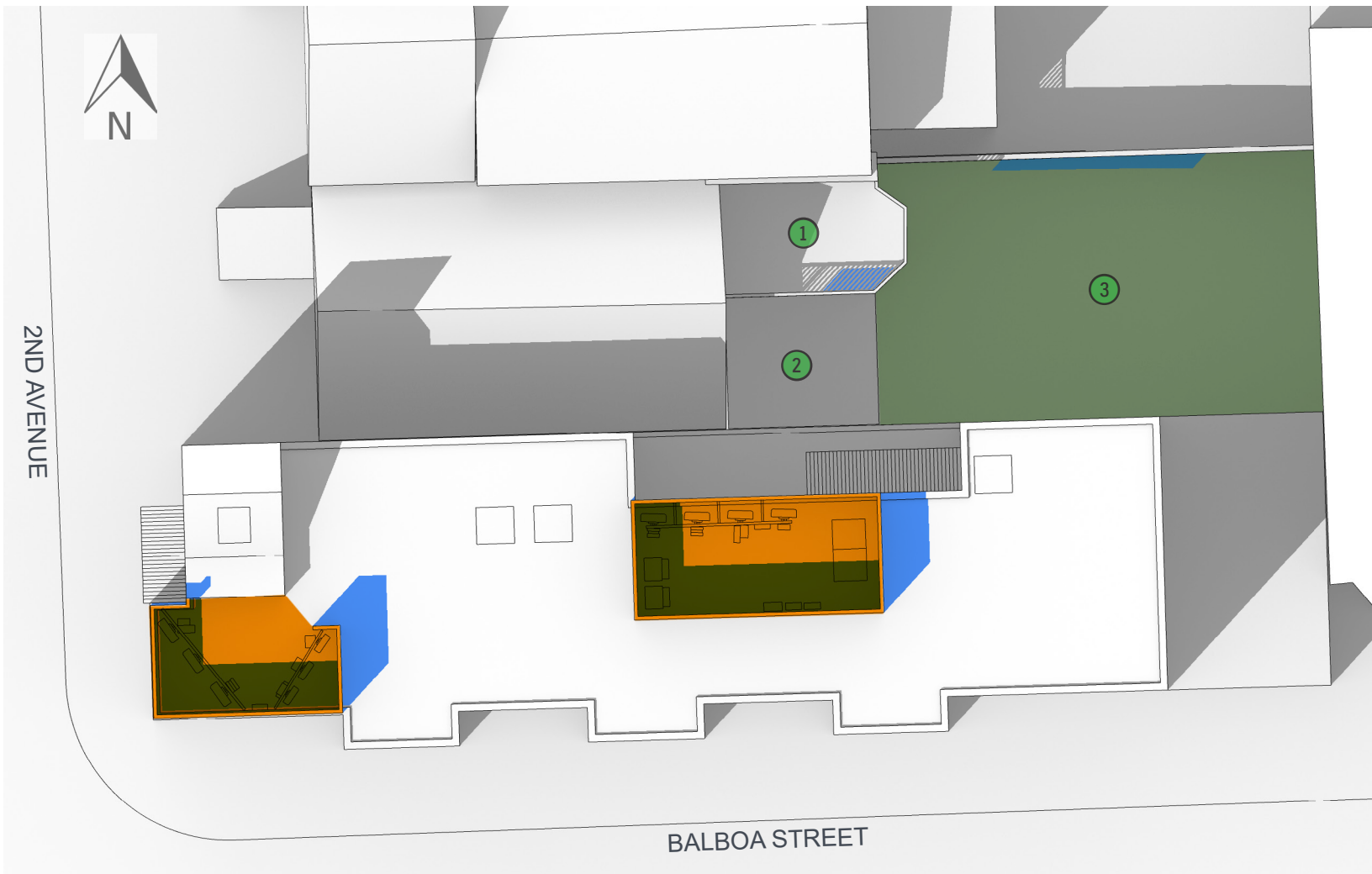
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

SPR-1.9

588 2ND AVENUE

Shading diagrams near the Spring Equinox



APPROX. SPRING EQUINOX
MARCH 23

3:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

SPR-1.10

588 2ND AVENUE

Shading diagrams near the Spring Equinox



APPROX. SPRING EQUINOX
MARCH 23

4:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

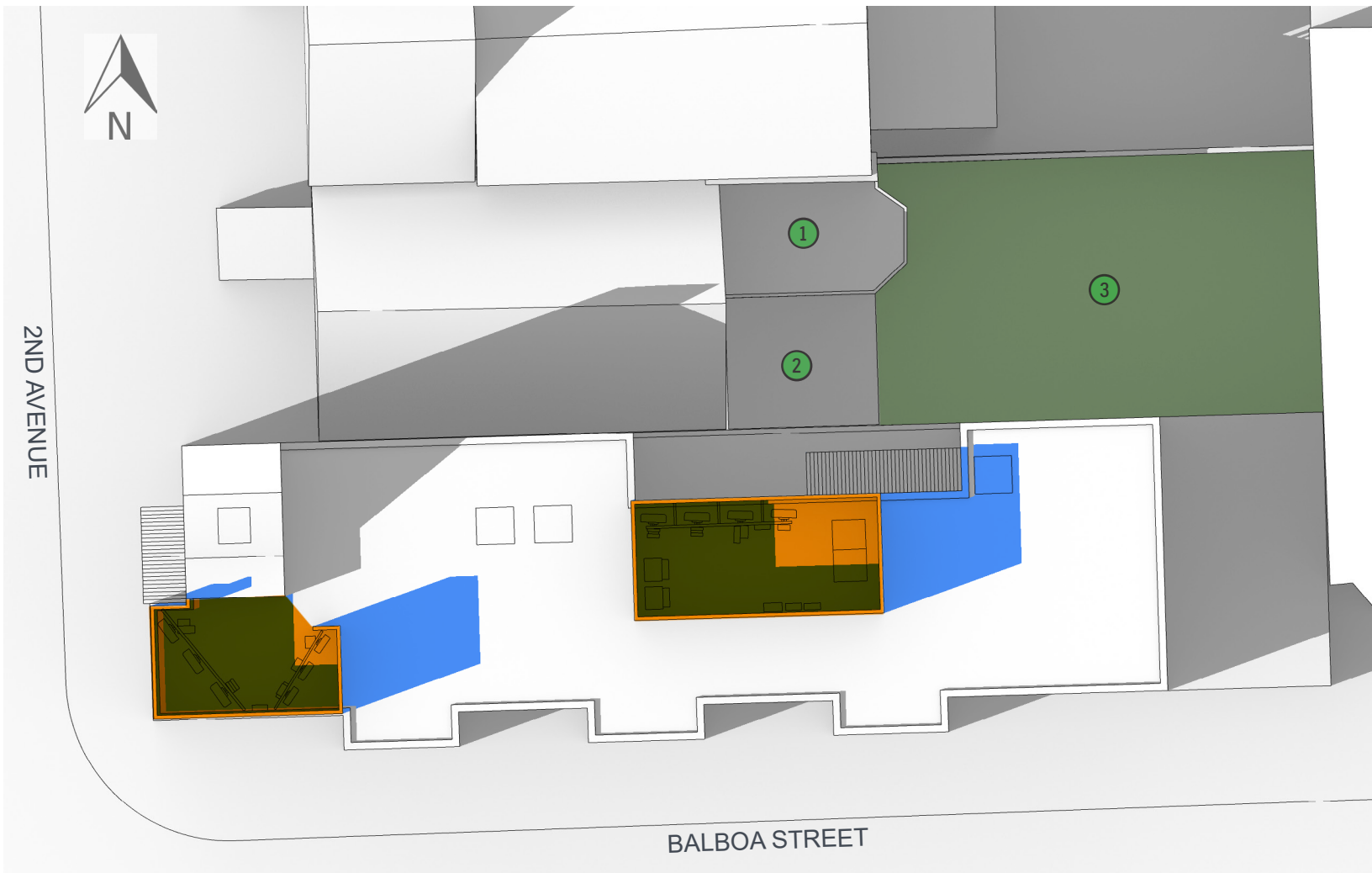
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

SPR-1.11

588 2ND AVENUE

Shading diagrams near the Spring Equinox



APPROX. SPRING EQUINOX
MARCH 23

5:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

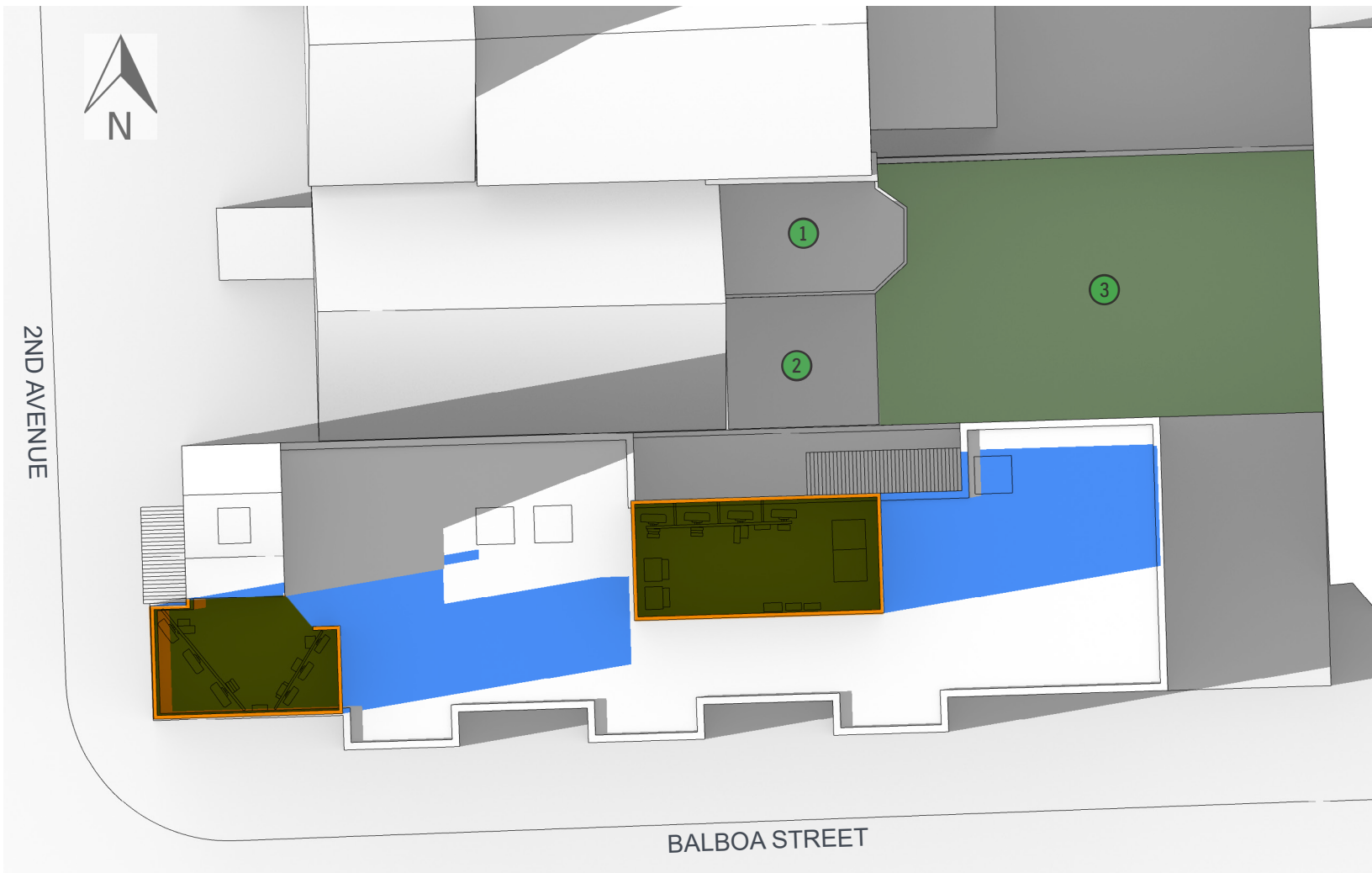
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

SPR-1.12

588 2ND AVENUE

Shading diagrams near the Spring Equinox



APPROX. SPRING EQUINOX
MARCH 23

6:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

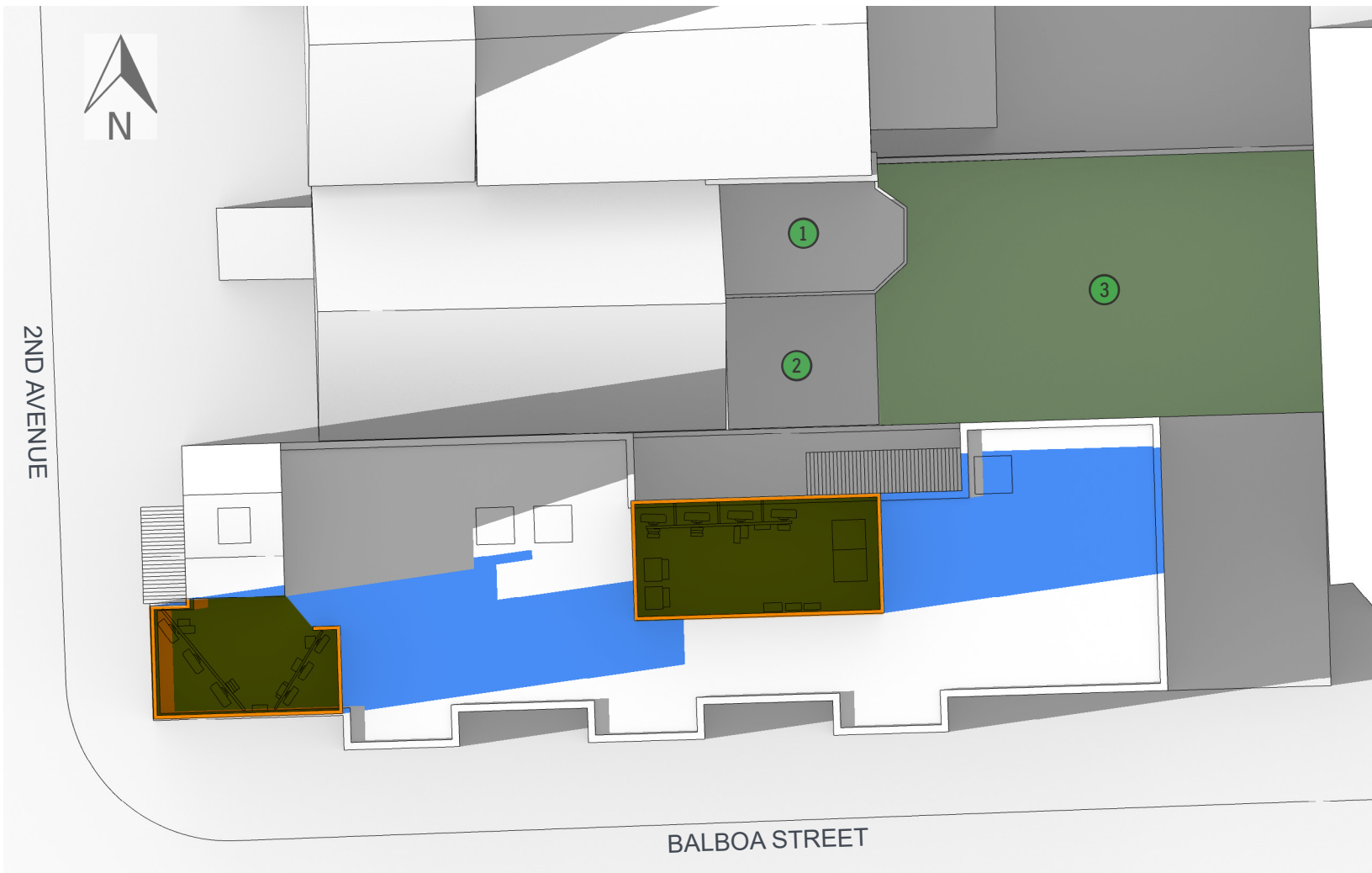
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

SPR-1.13

588 2ND AVENUE

Shading diagrams near the Spring Equinox



APPROX. SPRING EQUINOX
MARCH 23

6:09 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

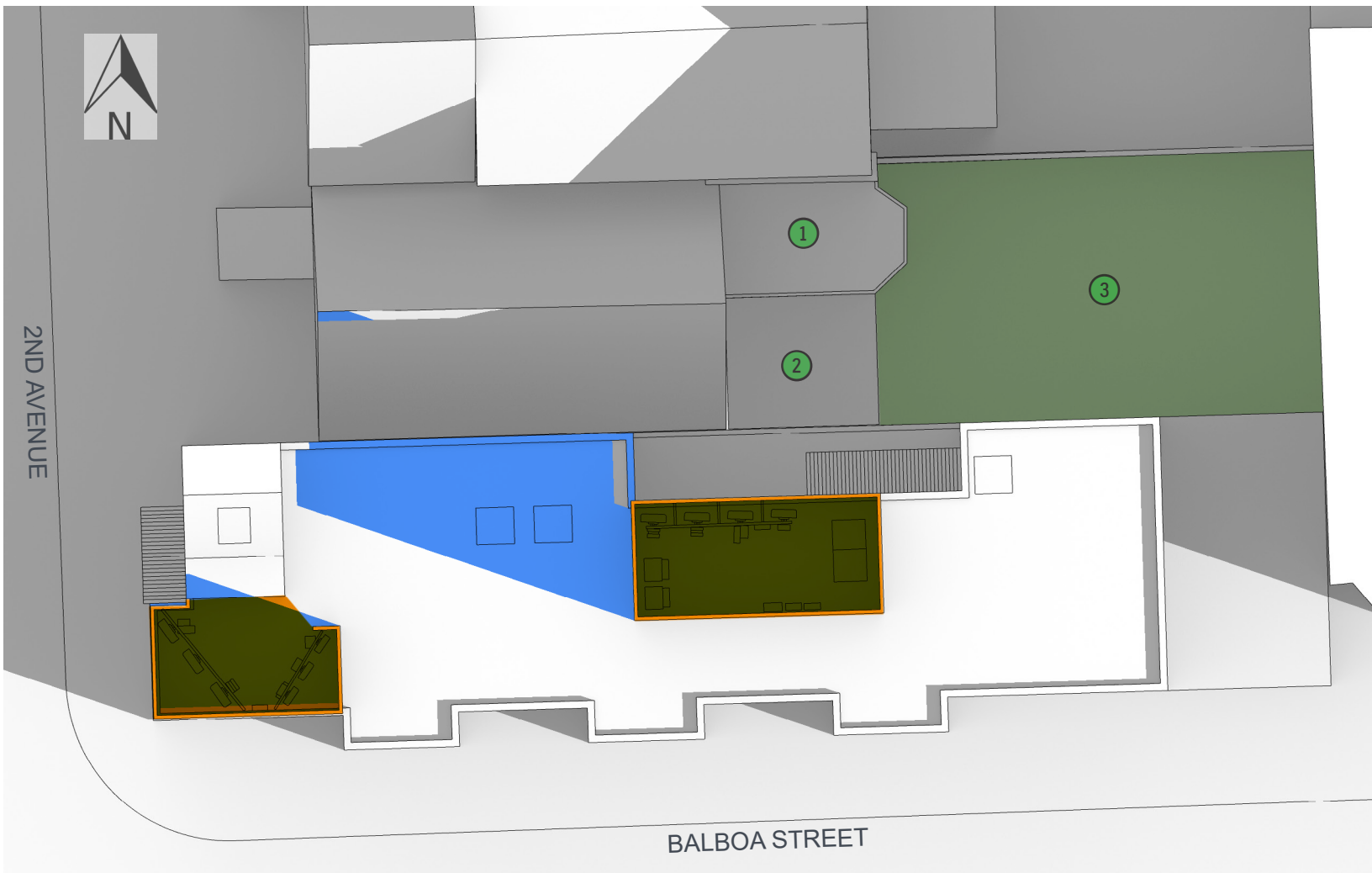
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

MAX-1.1

588 2ND AVENUE

Shadow diagrams on the Date of Maximum SFH net new shadow



**DATE OF MAXIMUM SFH NET NEW SHADOW ON UPPER DECK
OCTOBER 11 & MARCH 1**

8:16 AM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

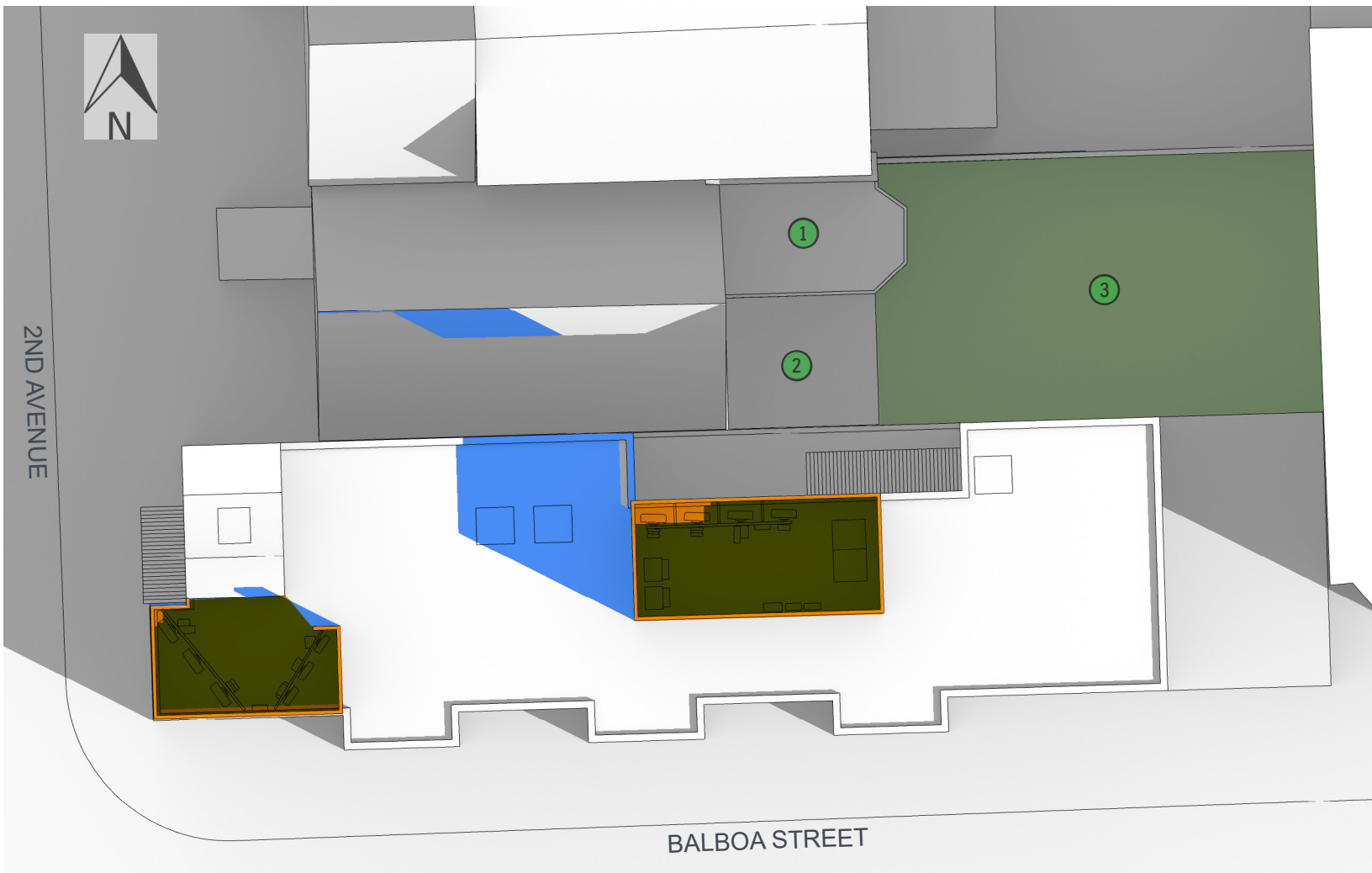
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

MAX-1.2

588 2ND AVENUE

Shadow diagrams on the Date of Maximum SFH net new shadow



**DATE OF MAXIMUM SFH NET NEW SHADOW ON UPPER DECK
OCTOBER 11 & MARCH 1**

9:00 AM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

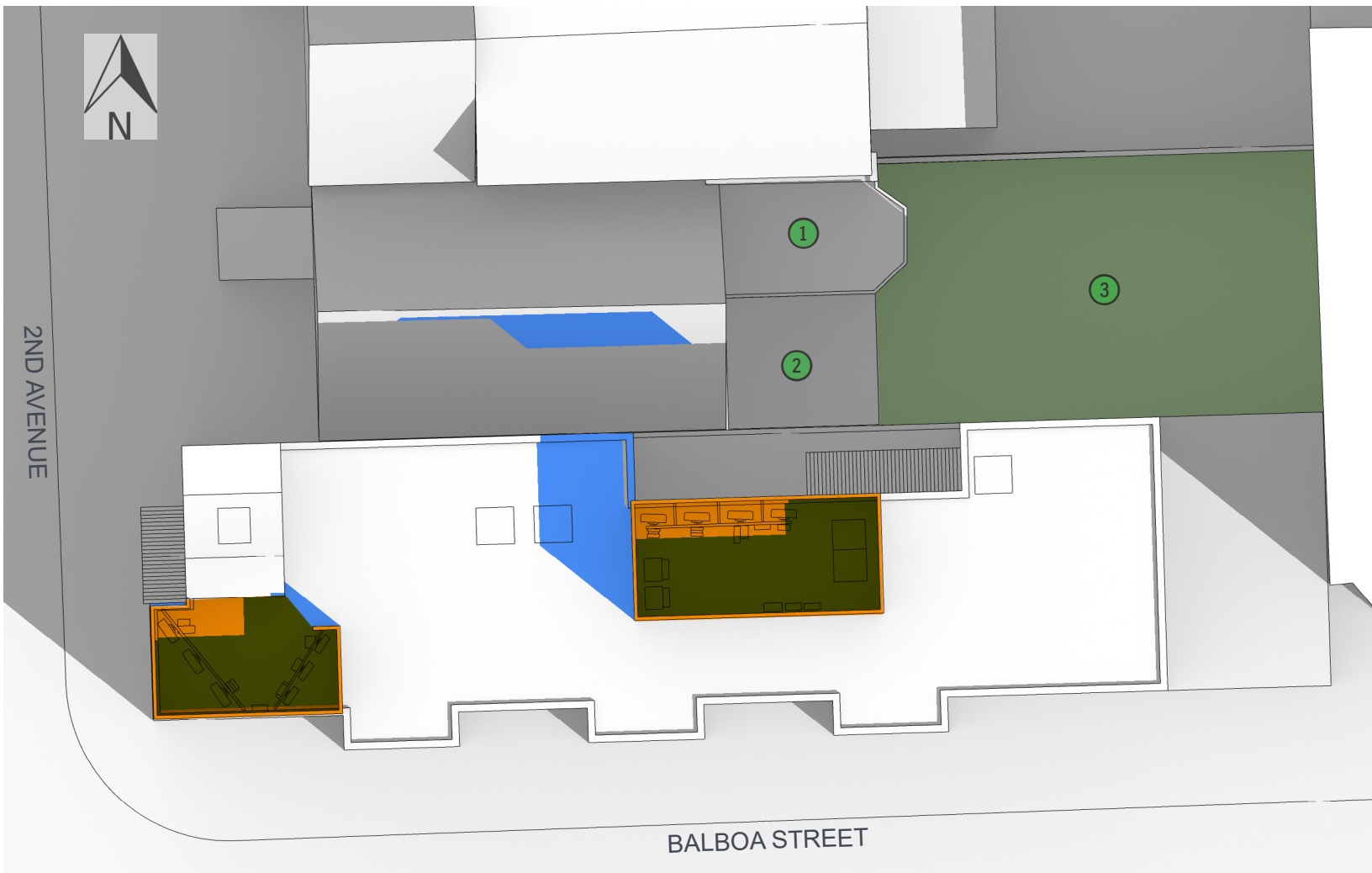
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

MAX-1.3

588 2ND AVENUE

Shadow diagrams on the Date of Maximum SFH net new shadow



**DATE OF MAXIMUM SFH NET NEW SHADOW ON UPPER DECK
OCTOBER 11 & MARCH 1**

10:00 AM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

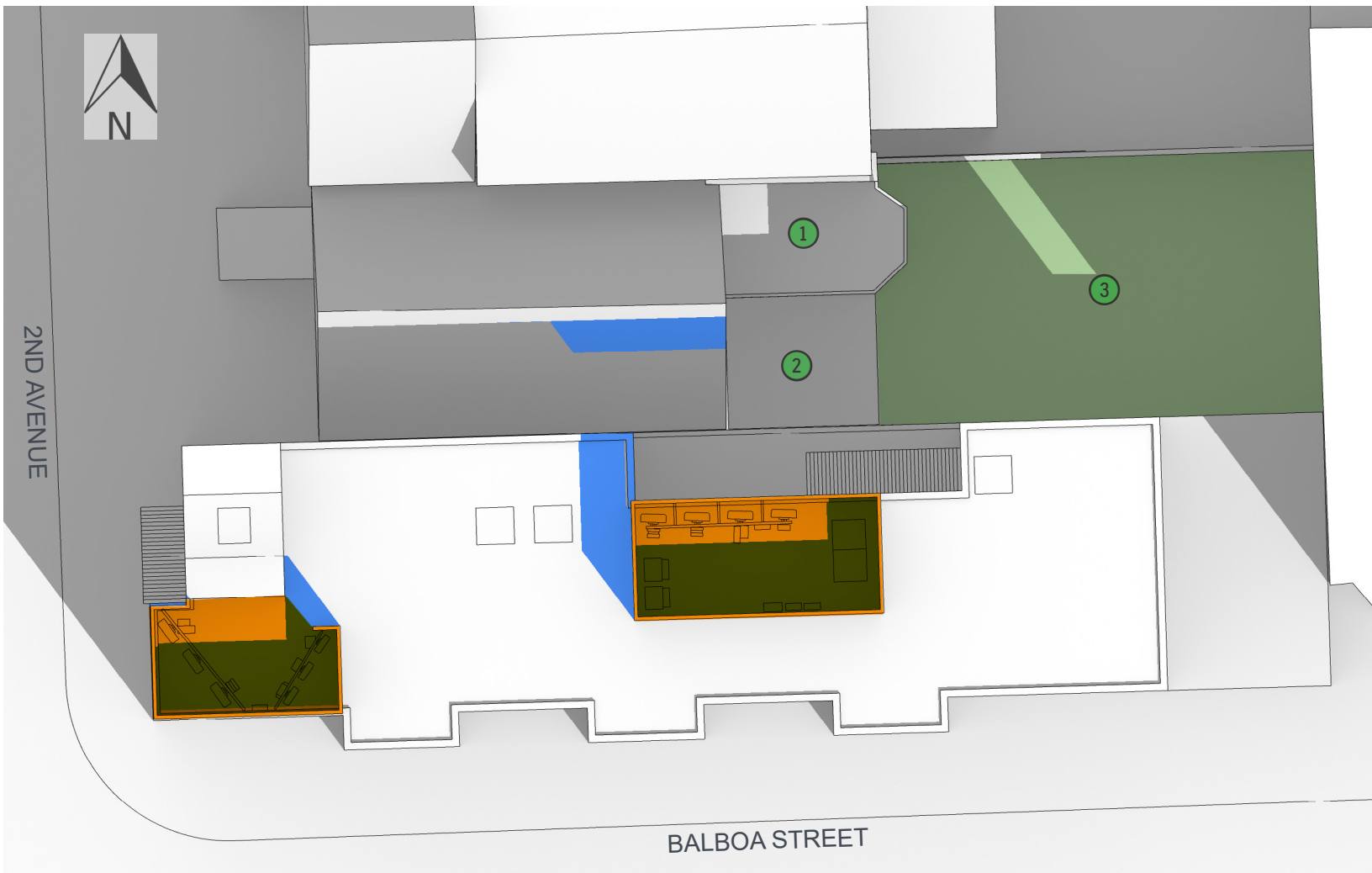
Exterior Features @ 588 2nd Avenue

- ① Upper Deck
- ② Lower Deck Area (exact configuration unclear)
- ③ Rear Yard

MAX-1.4

588 2ND AVENUE

Shadow diagrams on the Date of Maximum SFH net new shadow



**DATE OF MAXIMUM SFH NET NEW SHADOW ON UPPER DECK
OCTOBER 11 & MARCH 1**

11:00 AM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

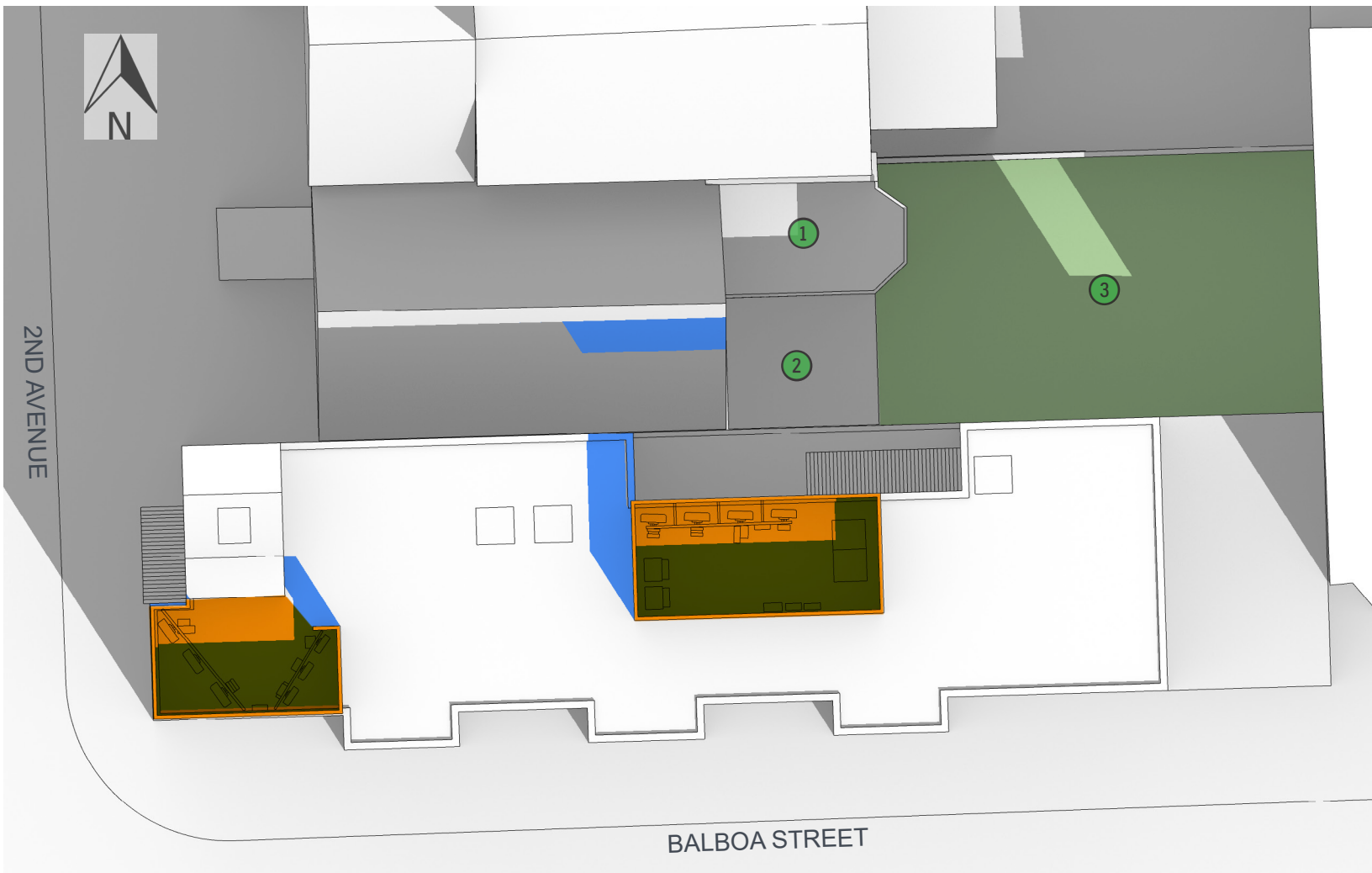
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

MAX-1.5

588 2ND AVENUE

Shadow diagrams on the Date of Maximum SFH net new shadow



**DATE OF MAXIMUM SFH NET NEW SHADOW ON UPPER DECK
OCTOBER 11 & MARCH 1**

11:15 AM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

MAX-1.6

588 2ND AVENUE

Shadow diagrams on the Date of Maximum SFH net new shadow



**DATE OF MAXIMUM SFH NET NEW SHADOW ON UPPER DECK
OCTOBER 11 & MARCH 1**

11:30 AM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

MAX-1.7

588 2ND AVENUE

Shadow diagrams on the Date of Maximum SFH net new shadow



**DATE OF MAXIMUM SFH NET NEW SHADOW ON UPPER DECK
OCTOBER 11 & MARCH 1**

11:45 AM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

Exterior Features @ 588 2nd Avenue

- ① Upper Deck
- ② Lower Deck Area (exact configuration unclear)
- ③ Rear Yard

MAX-1.8

588 2ND AVENUE

Shadow diagrams on the Date of Maximum SFH net new shadow



**DATE OF MAXIMUM SFH NET NEW SHADOW ON UPPER DECK
OCTOBER 11 & MARCH 1**

12:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

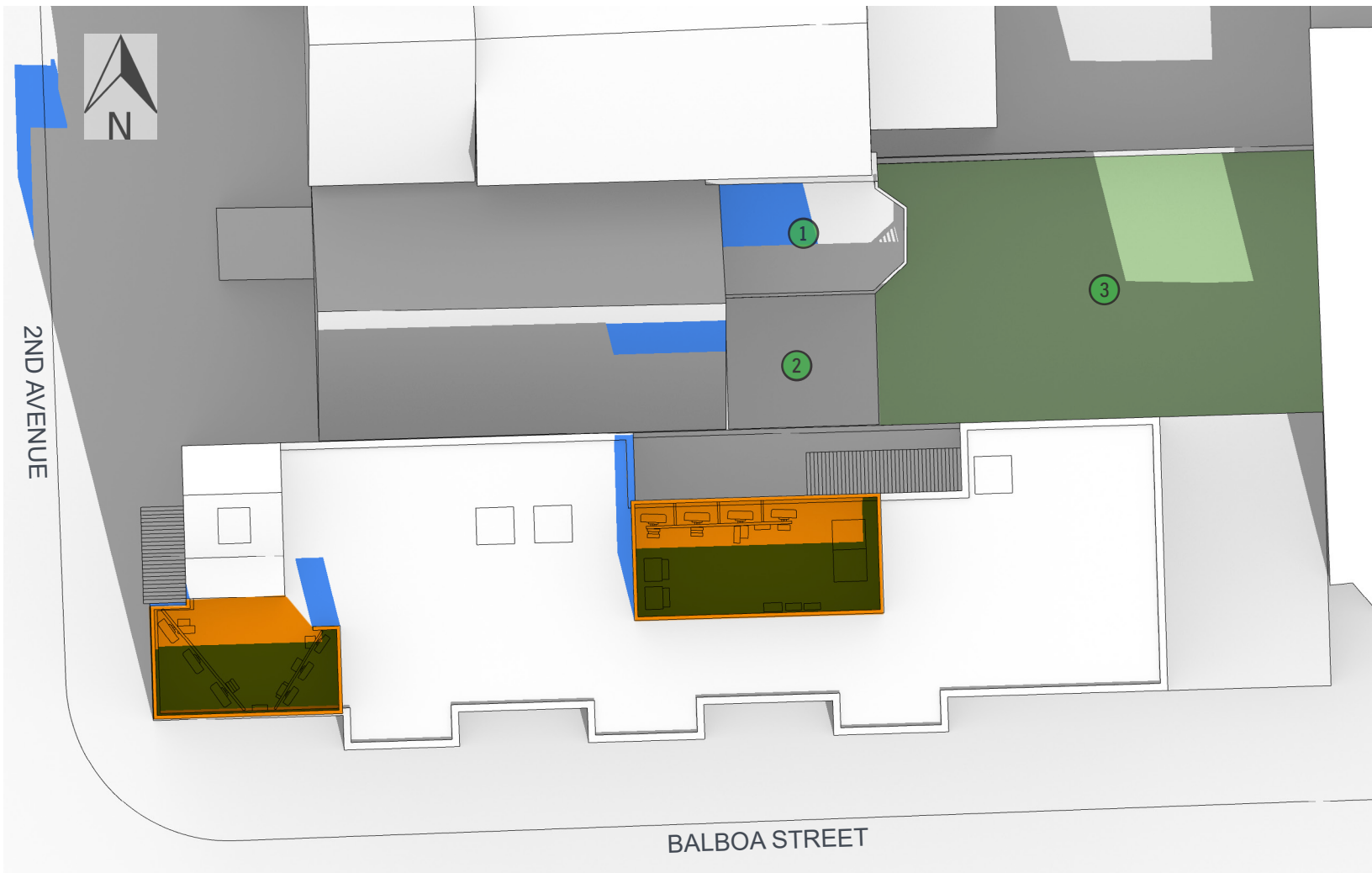
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

MAX-1.9

588 2ND AVENUE

Shadow diagrams on the Date of Maximum SFH net new shadow



**DATE OF MAXIMUM SFH NET NEW SHADOW ON UPPER DECK
OCTOBER 11 & MARCH 1**

12:15 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

MAX-1.10

588 2ND AVENUE

Shadow diagrams on the Date of Maximum SFH net new shadow



**DATE OF MAXIMUM SFH NET NEW SHADOW ON UPPER DECK
OCTOBER 11 & MARCH 1**

12:30 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

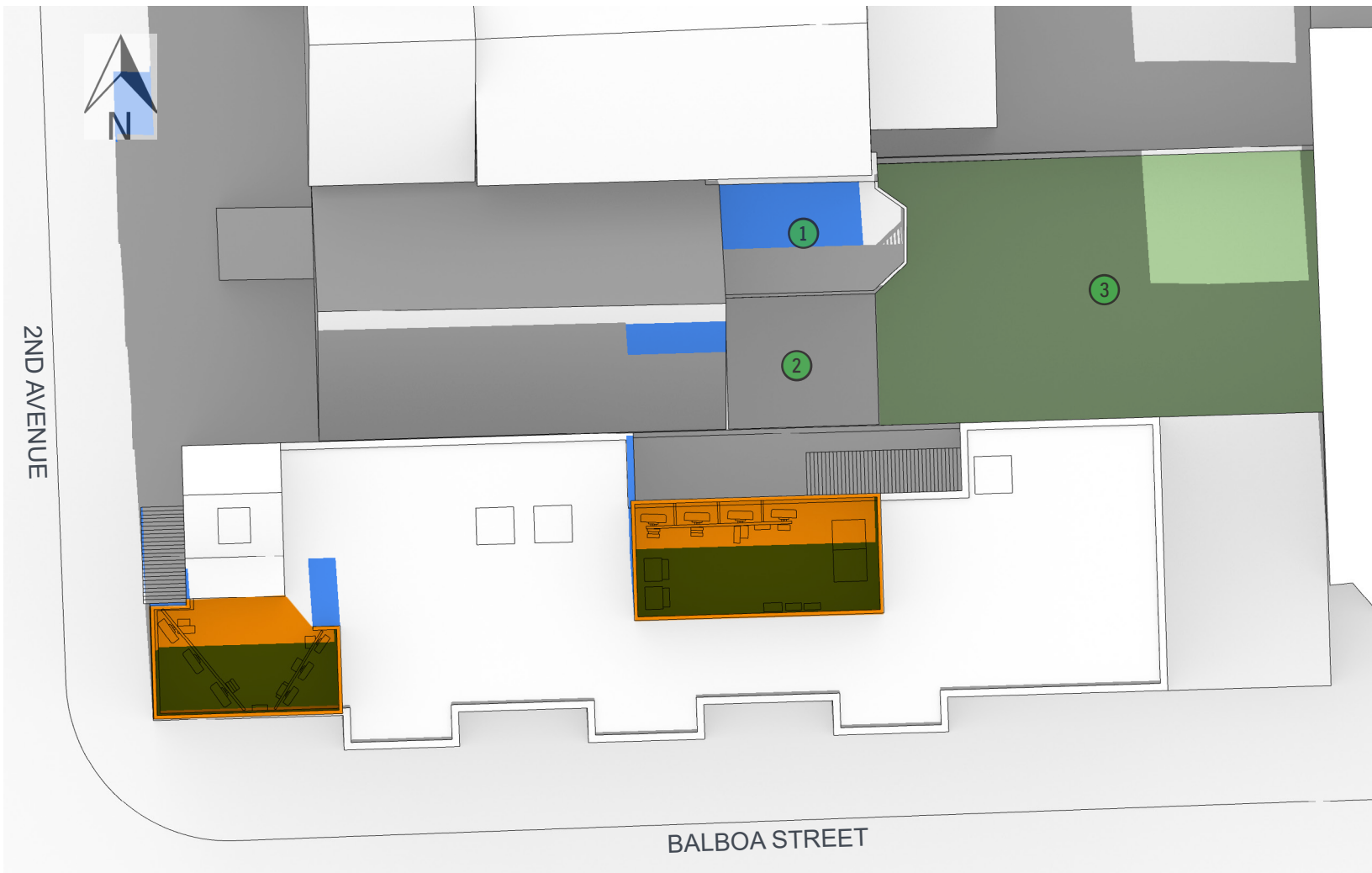
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

MAX-1.11

588 2ND AVENUE

Shadow diagrams on the Date of Maximum SFH net new shadow



**DATE OF MAXIMUM SFH NET NEW SHADOW ON UPPER DECK
OCTOBER 11 & MARCH 1**

12:45 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

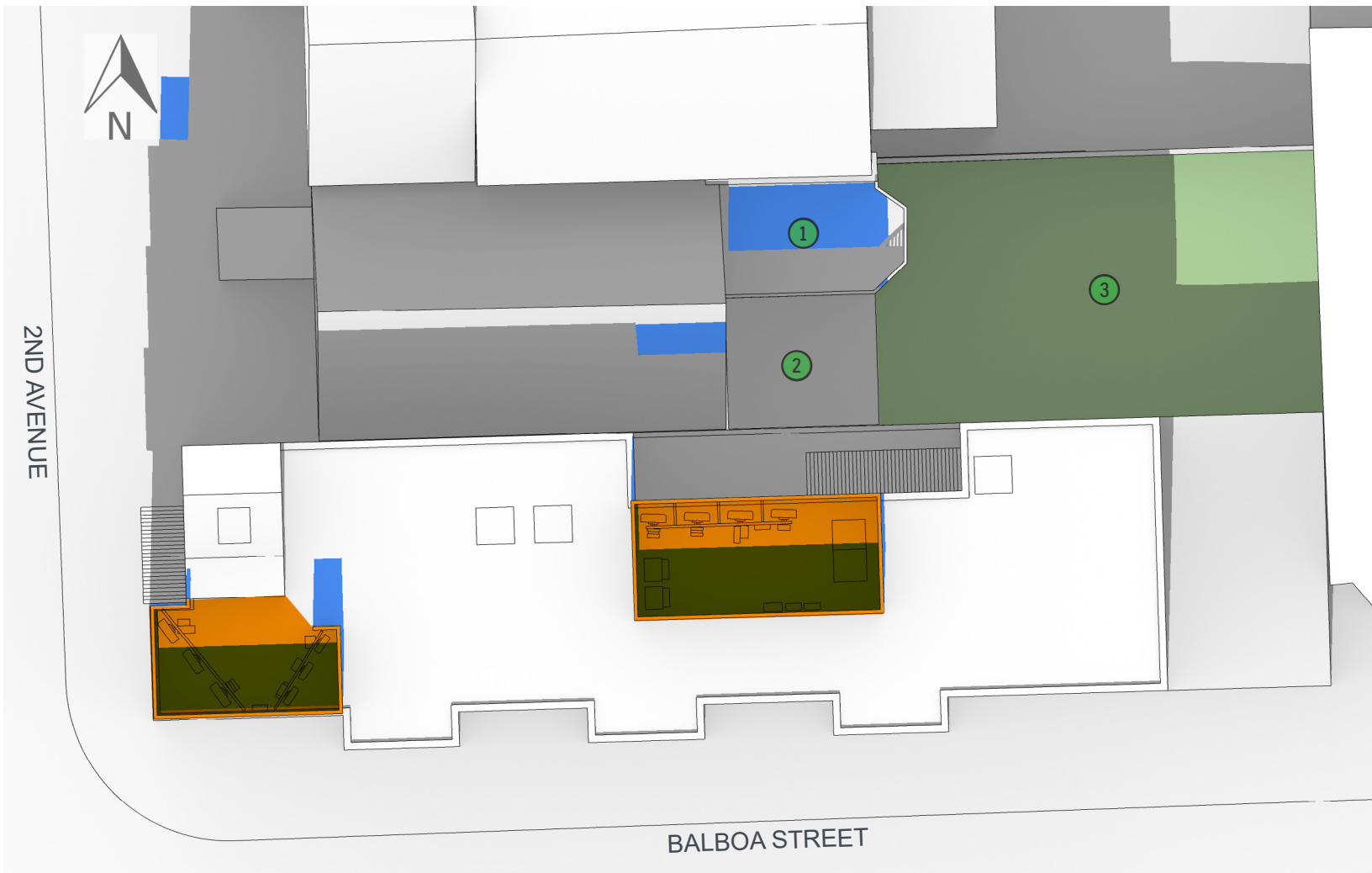
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

MAX-1.12

588 2ND AVENUE

Shadow diagrams on the Date of Maximum SFH net new shadow



**DATE OF MAXIMUM SFH NET NEW SHADOW ON UPPER DECK
OCTOBER 11 & MARCH 1**

1:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

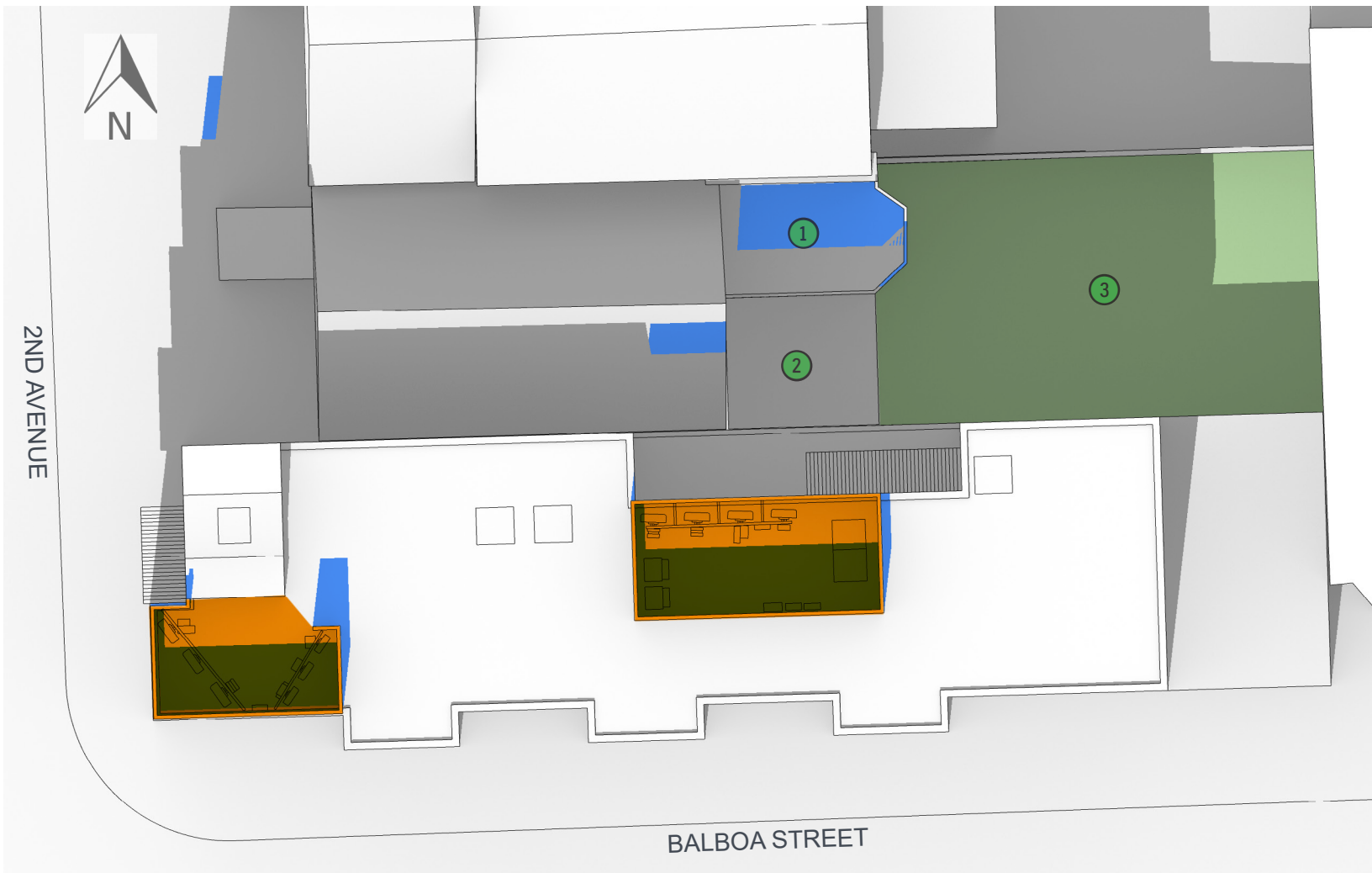
Exterior Features @ 588 2nd Avenue

- ① Upper Deck
- ② Lower Deck Area (exact configuration unclear)
- ③ Rear Yard

MAX-1.13

588 2ND AVENUE

Shadow diagrams on the Date of Maximum SFH net new shadow



**DATE OF MAXIMUM SFH NET NEW SHADOW ON UPPER DECK
OCTOBER 11 & MARCH 1**

1:15 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

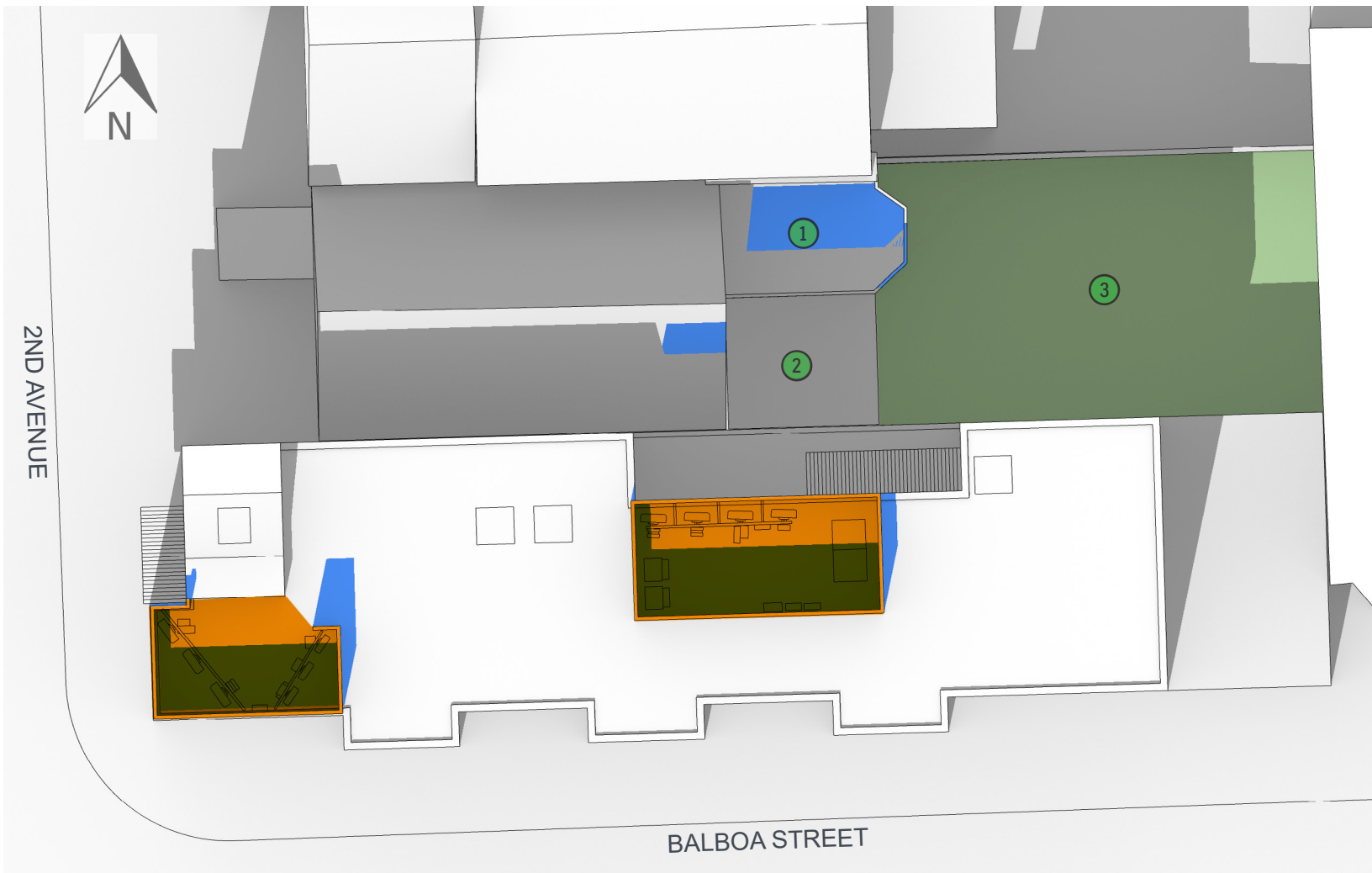
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

MAX-1.14

588 2ND AVENUE

Shadow diagrams on the Date of Maximum SFH net new shadow



**DATE OF MAXIMUM SFH NET NEW SHADOW ON UPPER DECK
OCTOBER 11 & MARCH 1**

1:30 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

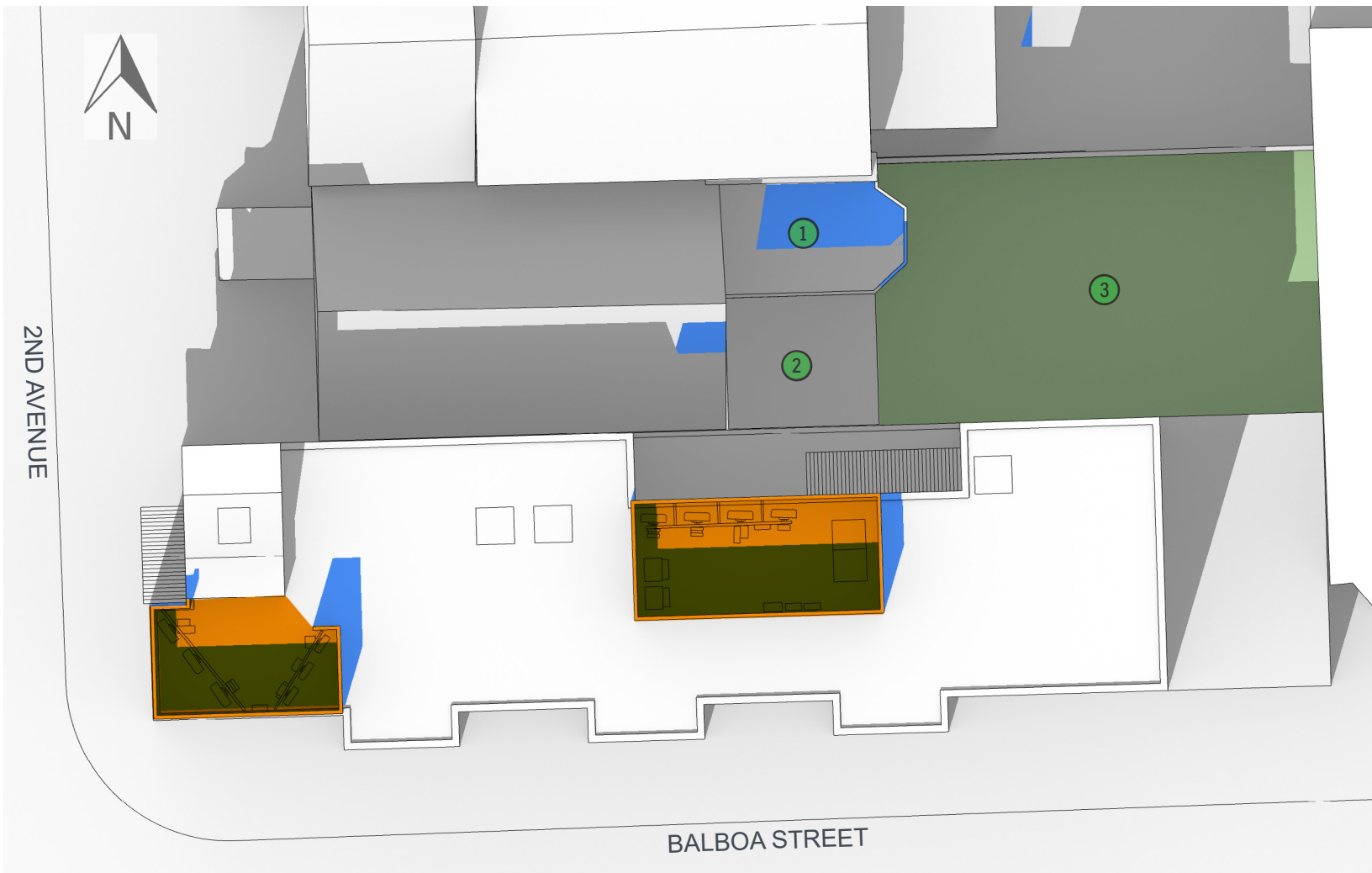
Exterior Features @ 588 2nd Avenue

- ① Upper Deck
- ② Lower Deck Area (exact configuration unclear)
- ③ Rear Yard

MAX-1.15

588 2ND AVENUE

Shadow diagrams on the Date of Maximum SFH net new shadow



**DATE OF MAXIMUM SFH NET NEW SHADOW ON UPPER DECK
OCTOBER 11 & MARCH 1**

1:45 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

MAX-1.16

588 2ND AVENUE

Shadow diagrams on the Date of Maximum SFH net new shadow



**DATE OF MAXIMUM SFH NET NEW SHADOW ON UPPER DECK
OCTOBER 11 & MARCH 1**

2:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

MAX-1.17

588 2ND AVENUE

Shadow diagrams on the Date of Maximum SFH net new shadow



**DATE OF MAXIMUM SFH NET NEW SHADOW ON UPPER DECK
OCTOBER 11 & MARCH 1**

2:15 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

MAX-1.18

588 2ND AVENUE

Shadow diagrams on the Date of Maximum SFH net new shadow



**DATE OF MAXIMUM SFH NET NEW SHADOW ON UPPER DECK
OCTOBER 11 & MARCH 1**

2:30 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

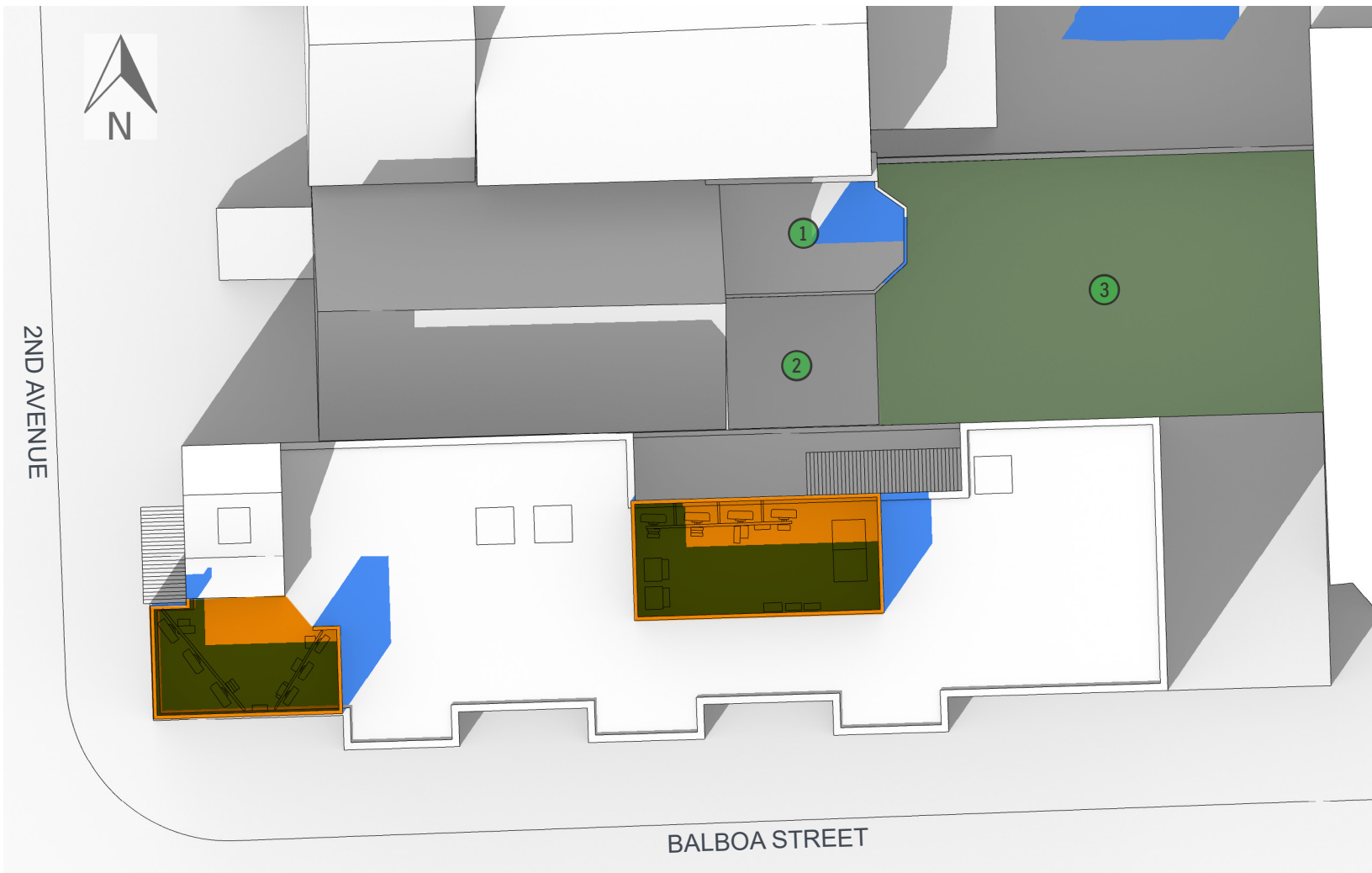
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

MAX-1.19

588 2ND AVENUE

Shadow diagrams on the Date of Maximum SFH net new shadow



**DATE OF MAXIMUM SFH NET NEW SHADOW ON UPPER DECK
OCTOBER 11 & MARCH 1**

2:45 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

MAX-1.20

588 2ND AVENUE

Shadow diagrams on the Date of Maximum SFH net new shadow



**DATE OF MAXIMUM SFH NET NEW SHADOW ON UPPER DECK
OCTOBER 11 & MARCH 1**

3:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

MAX-1.21

588 2ND AVENUE

Shadow diagrams on the Date of Maximum SFH net new shadow



**DATE OF MAXIMUM SFH NET NEW SHADOW ON UPPER DECK
OCTOBER 11 & MARCH 1**

3:15 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

Exterior Features @ 588 2nd Avenue

- ① Upper Deck
- ② Lower Deck Area (exact configuration unclear)
- ③ Rear Yard

MAX-1.22

588 2ND AVENUE

Shadow diagrams on the Date of Maximum SFH net new shadow



**DATE OF MAXIMUM SFH NET NEW SHADOW ON UPPER DECK
OCTOBER 11 & MARCH 1**

3:30 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

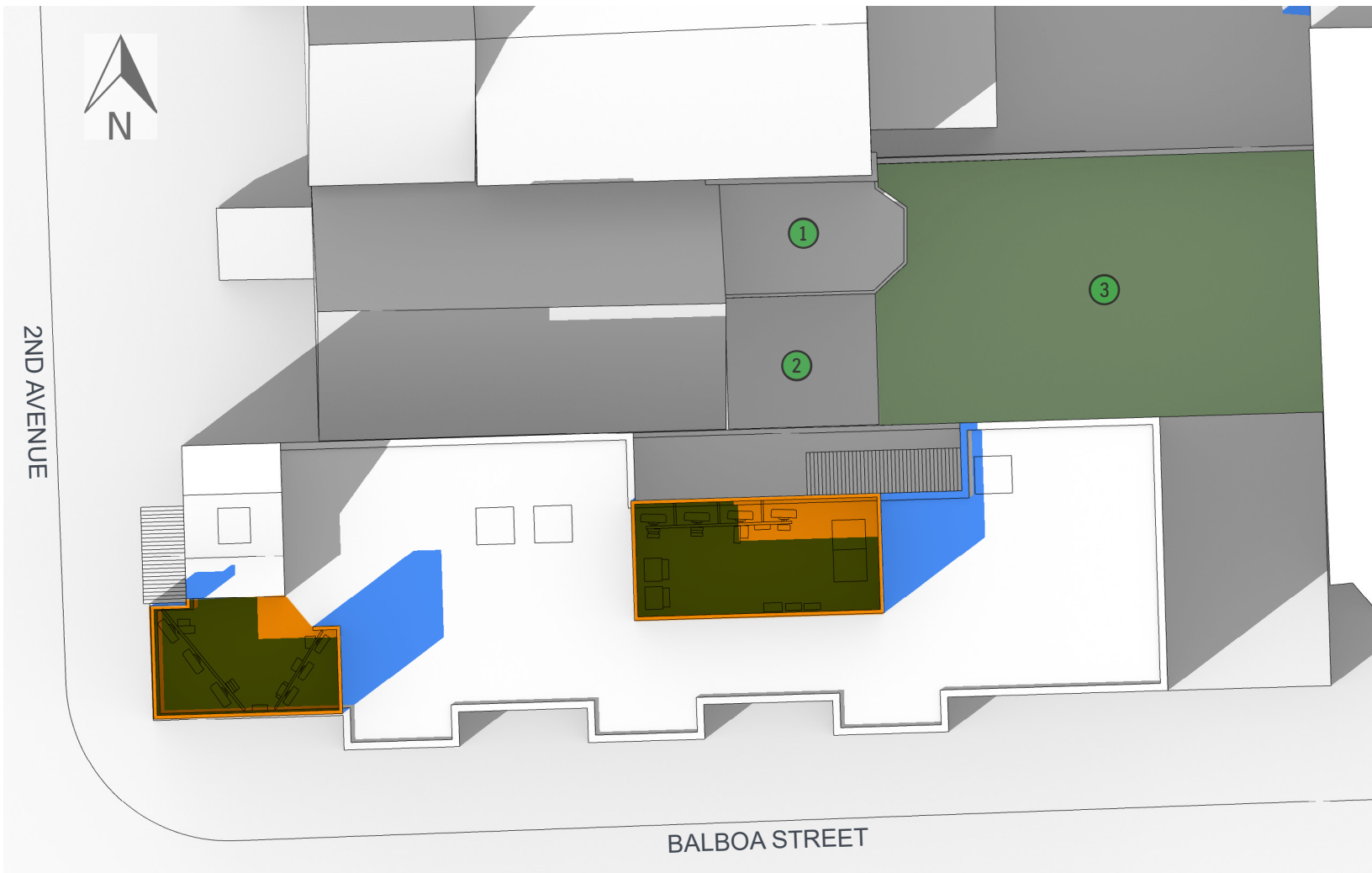
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

MAX-1.23

588 2ND AVENUE

Shadow diagrams on the Date of Maximum SFH net new shadow



**DATE OF MAXIMUM SFH NET NEW SHADOW ON UPPER DECK
OCTOBER 11 & MARCH 1**

4:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

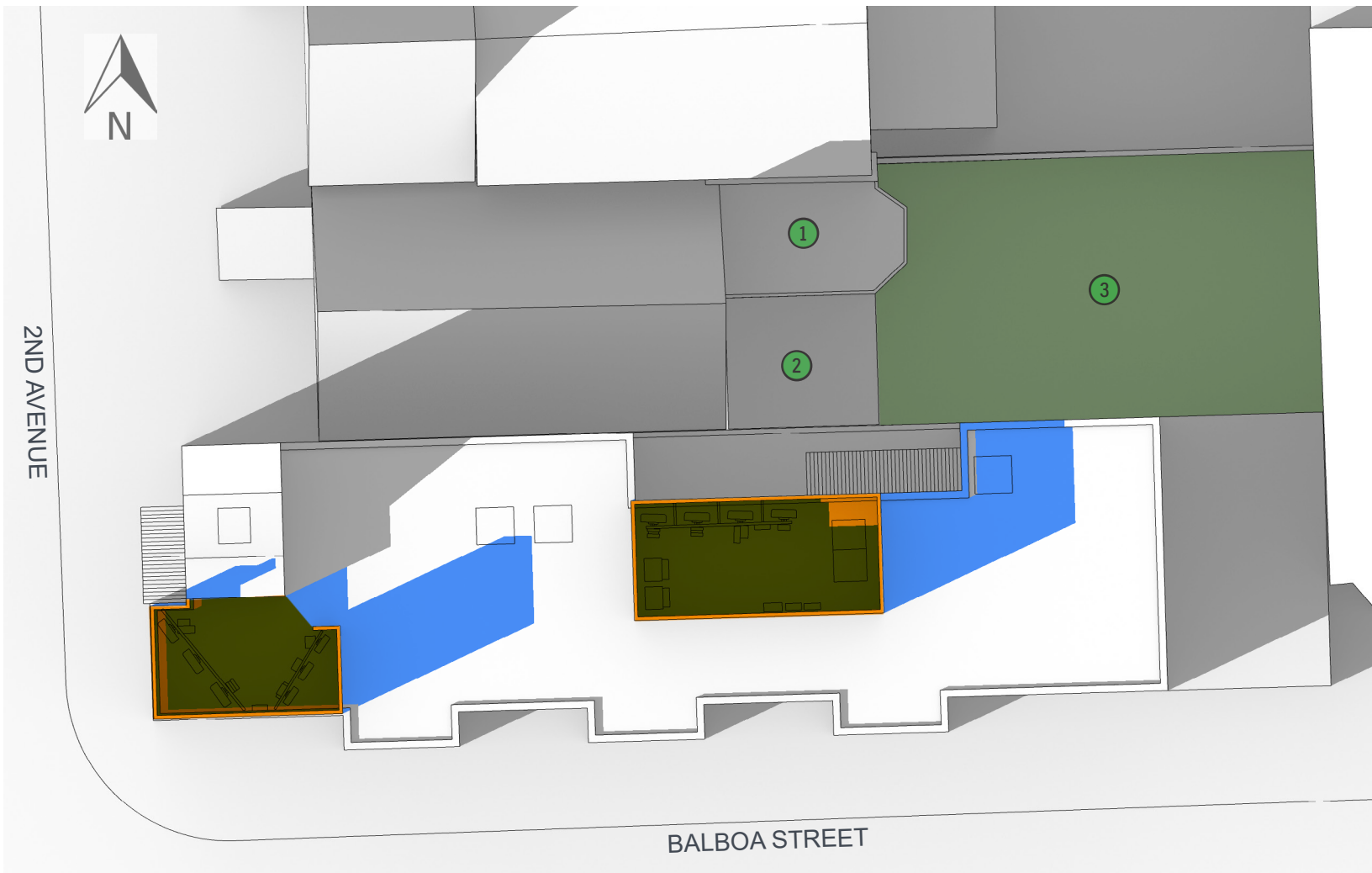
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

MAX-1.24

588 2ND AVENUE

Shadow diagrams on the Date of Maximum SFH net new shadow



**DATE OF MAXIMUM SFH NET NEW SHADOW ON UPPER DECK
OCTOBER 11 & MARCH 1**

5:00 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

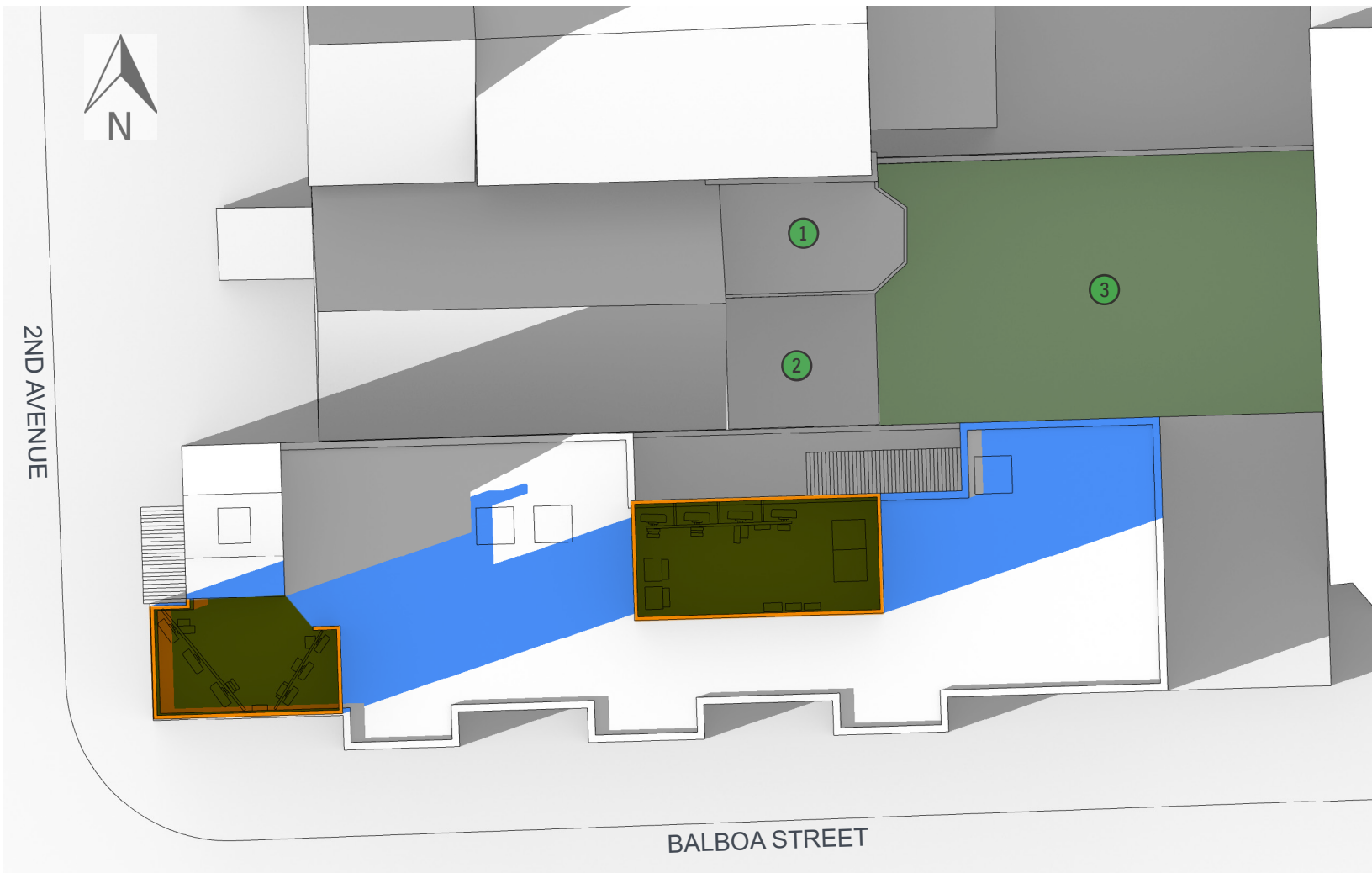
Exterior Features @ 588 2nd Avenue

- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

MAX-1.25

588 2ND AVENUE

Shadow diagrams on the Date of Maximum SFH net new shadow



**DATE OF MAXIMUM SFH NET NEW SHADOW ON UPPER DECK
OCTOBER 11 & MARCH 1**

5:37 PM

- Proposed Rooftop Enclosures
- Existing (current) Shadows
- Net New Shadow from Proposed Enclosures

Exterior Features @ 588 2nd Avenue

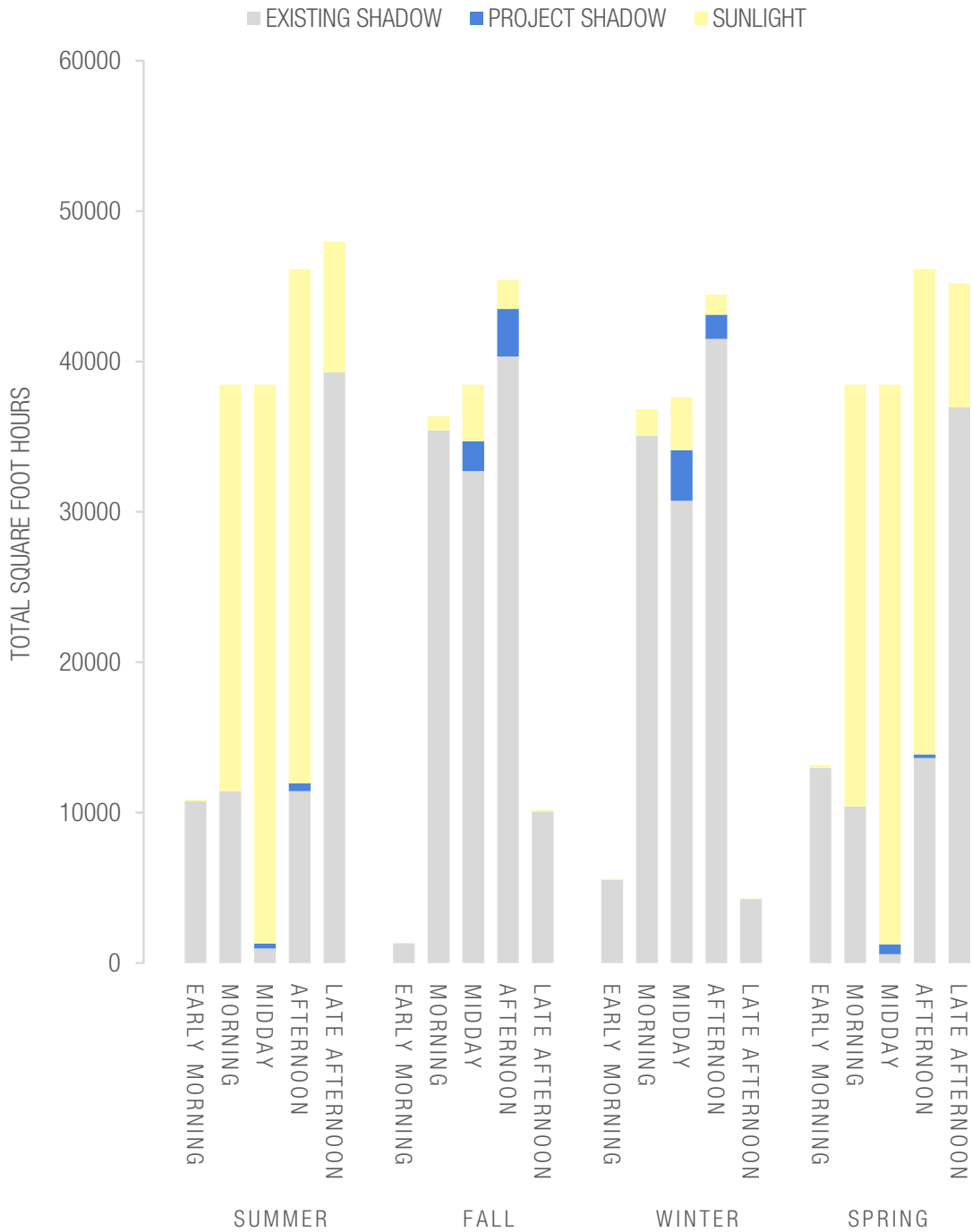
- 1 Upper Deck
- 2 Lower Deck Area (exact configuration unclear)
- 3 Rear Yard

EXHIBIT B:

QUANTITATIVE ANALYSIS OF NET NEW SHADOW EFFECTS ON UPPER DECK AREA

- Chart showing relative amounts of sunlight / existing shadow / net new project shadow
- Summary of quantitative analysis findings
- Full year analysis results

588 2ND AVENUE: UPPER DECK EXISTING/PROJECT SHADOW VS SUN CHART



THEORETICAL ANNUAL AVAILABLE SUNLIGHT (TAAS) CALCULATION	UPPER DECK
Total plan area of Upper Deck	167 sf
Total hours of annual sunlight from 1-hr after sunrise through 1-hr before sunset	3721.4 hrs
Theoretical Annual Available Sunlight (plan area x hours of annual sunlight)	622,106 sfh

EXISTING SHADOW CONDITIONS SUMMARY	UPPER DECK
Total annual existing shadow load (existing shadow sfh ÷ TAAS sfh)	61.80%
Total annual existing shadow in square-foot-hours (sfh)	384,488 sfh
Range in existing shadow area coverage throughout the year	Between 0% - 100%
Time of year / time of day most affected by existing shadow	Winter / Early Morning (before 8:00 AM)

588 2ND AVENUE NET NEW SHADOW SCENARIO SUMMARY	UPPER DECK
Annual net new project-only shadow load / total existing + project shadow load	1.91% / 63.71%
Annual net new sfh project shadow / total existing + project sfh	11,911 sfh / 396,399 sfh
Number of days annually when new shading from project would occur	Up to 110 days a year
Dates when net new shadow from project would be cast annually	2/9 - 4/4 & 9/7 - 10/31
Date(s) with most annual sfh net new project shadow (shadow load / net new sfh)	October 11 & March 1
Time of year / time of day most affected by project net new shadow overall	Winter / Midday (10:30 AM-1:00 PM)
Date(s) with largest shadow area from the project (area and time shadow occurs)	Oct 11/Mar 1 (87 sf @ 1:15 PM)
Range in project net new shadow percentage coverage (area range)	Between 0% - 52% (0 - 87 sf)
Average project net new shadow coverage on affected dates (shadow area)	20.10% (34 sf)
Date(s) with the longest duration of net new shadow (duration)	Sep 20/Mar 22 (4 hr 0 min +/- 14 min)
Range in daily project net new shadow duration (margin of error)	Between zero minutes up to 4 hr 0 min (+/- 14 min)
Average daily project net new shadow duration on affected dates	3 hr 45 min

JUNE 21

Summer solstice

Analysis hours: 6:46 AM-7:36 PM (PDT)

Analysis Time	EXISTING SHADOW ON UPPER DECK			588 2ND STREET NET NEW SHADOW ON UPPER DECK		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
6:46 AM	167.17	18.39	100.0%	0.00	0.00	0.0%
7:00 AM	167.17	38.45	100.0%	0.00	0.00	0.0%
7:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
7:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
7:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:00 AM	160.76	40.19	96.2%	0.00	0.00	0.0%
8:15 AM	100.69	25.17	60.2%	0.00	0.00	0.0%
8:30 AM	46.00	11.50	27.5%	0.00	0.00	0.0%
8:45 AM	5.29	1.32	3.2%	0.00	0.00	0.0%
9:00 AM	2.58	0.65	1.5%	0.00	0.00	0.0%
9:15 AM	0.49	0.12	0.3%	0.00	0.00	0.0%
9:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
9:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:00 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:15 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:00 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:15 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:00 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:15 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:30 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:45 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
1:00 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
1:15 PM	2.96	0.74	1.8%	0.00	0.00	0.0%
1:30 PM	9.45	2.36	5.7%	0.00	0.00	0.0%
1:45 PM	15.81	3.95	9.5%	0.00	0.00	0.0%
2:00 PM	22.38	5.59	13.4%	0.00	0.00	0.0%
2:15 PM	28.82	7.20	17.2%	0.00	0.00	0.0%
2:30 PM	35.38	8.85	21.2%	0.00	0.00	0.0%
2:45 PM	42.00	10.50	25.1%	0.00	0.00	0.0%
3:00 PM	48.58	12.15	29.1%	0.00	0.00	0.0%
3:15 PM	55.35	13.84	33.1%	0.00	0.00	0.0%
3:30 PM	61.94	15.49	37.1%	0.00	0.00	0.0%
3:45 PM	68.75	17.19	41.1%	0.00	0.00	0.0%
4:00 PM	75.21	18.80	45.0%	0.00	0.00	0.0%
4:15 PM	81.67	20.42	48.9%	0.00	0.00	0.0%
4:30 PM	87.47	21.87	52.3%	0.00	0.00	0.0%
4:45 PM	92.85	23.21	55.5%	0.00	0.00	0.0%
5:00 PM	98.92	24.73	59.2%	0.00	0.00	0.0%
5:15 PM	107.59	26.90	64.4%	0.00	0.00	0.0%
5:30 PM	118.33	29.58	70.8%	0.00	0.00	0.0%
5:45 PM	129.74	32.43	77.6%	0.00	0.00	0.0%
6:00 PM	141.91	35.48	84.9%	0.00	0.00	0.0%
6:15 PM	153.35	38.34	91.7%	0.00	0.00	0.0%
6:30 PM	162.74	40.69	97.4%	0.00	0.00	0.0%
6:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
7:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
7:15 PM	167.17	50.15	100.0%	0.00	0.00	0.0%
7:36 PM	167.17	30.09	100.0%	0.00	0.00	0.0%

JUNE 28

Mirror date: June 14

Analysis hours: 6:48 AM-7:36 PM (PDT)

Analysis Time	EXISTING SHADOW ON UPPER DECK			588 2ND STREET NET NEW SHADOW ON UPPER DECK		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
6:48 AM	167.17	16.72	100.0%	0.00	0.00	0.0%
7:00 AM	167.17	36.78	100.0%	0.00	0.00	0.0%
7:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
7:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
7:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:15 AM	108.17	27.04	64.7%	0.00	0.00	0.0%
8:30 AM	52.65	13.16	31.5%	0.00	0.00	0.0%
8:45 AM	7.77	1.94	4.6%	0.00	0.00	0.0%
9:00 AM	2.68	0.67	1.6%	0.00	0.00	0.0%
9:15 AM	0.53	0.13	0.3%	0.00	0.00	0.0%
9:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
9:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:00 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:15 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:00 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:15 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:00 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:15 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:30 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:45 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
1:00 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
1:15 PM	2.39	0.60	1.4%	0.00	0.00	0.0%
1:30 PM	8.85	2.21	5.3%	0.00	0.00	0.0%
1:45 PM	15.24	3.81	9.1%	0.00	0.00	0.0%
2:00 PM	21.81	5.45	13.0%	0.00	0.00	0.0%
2:15 PM	28.30	7.07	16.9%	0.00	0.00	0.0%
2:30 PM	34.86	8.72	20.9%	0.00	0.00	0.0%
2:45 PM	41.51	10.38	24.8%	0.00	0.00	0.0%
3:00 PM	48.13	12.03	28.8%	0.00	0.00	0.0%
3:15 PM	54.93	13.73	32.9%	0.00	0.00	0.0%
3:30 PM	61.58	15.39	36.8%	0.00	0.00	0.0%
3:45 PM	68.40	17.10	40.9%	0.00	0.00	0.0%
4:00 PM	74.92	18.73	44.8%	0.00	0.00	0.0%
4:15 PM	81.51	20.38	48.8%	0.00	0.00	0.0%
4:30 PM	87.45	21.86	52.3%	0.00	0.00	0.0%
4:45 PM	92.92	23.23	55.6%	0.00	0.00	0.0%
5:00 PM	98.69	24.67	59.0%	0.00	0.00	0.0%
5:15 PM	106.71	26.68	63.8%	0.00	0.00	0.0%
5:30 PM	117.38	29.34	70.2%	0.00	0.00	0.0%
5:45 PM	128.70	32.18	77.0%	0.00	0.00	0.0%
6:00 PM	140.81	35.20	84.2%	0.00	0.00	0.0%
6:15 PM	152.40	38.10	91.2%	0.00	0.00	0.0%
6:30 PM	162.08	40.52	97.0%	0.00	0.00	0.0%
6:45 PM	167.15	41.79	100.0%	0.00	0.00	0.0%
7:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
7:15 PM	167.17	50.15	100.0%	0.00	0.00	0.0%
7:36 PM	167.17	30.09	100.0%	0.00	0.00	0.0%

JULY 5

Mirror date: June 7
 Analysis hours: 6:52 AM-7:36 PM (PDT)

Analysis Time	EXISTING SHADOW ON UPPER DECK			588 2ND STREET NET NEW SHADOW ON UPPER DECK		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
6:52 AM	167.17	10.03	100.0%	0.00	0.00	0.0%
7:00 AM	167.17	31.76	100.0%	0.00	0.00	0.0%
7:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
7:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
7:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:15 AM	118.81	29.70	71.1%	0.00	0.00	0.0%
8:30 AM	61.70	15.43	36.9%	0.00	0.00	0.0%
8:45 AM	12.53	3.13	7.5%	0.00	0.00	0.0%
9:00 AM	2.40	0.60	1.4%	0.00	0.00	0.0%
9:15 AM	0.25	0.06	0.1%	0.00	0.00	0.0%
9:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
9:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:00 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:15 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:00 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:15 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:00 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:15 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:30 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:45 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
1:00 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
1:15 PM	1.89	0.47	1.1%	0.00	0.00	0.0%
1:30 PM	8.42	2.11	5.0%	0.00	0.00	0.0%
1:45 PM	14.86	3.72	8.9%	0.00	0.00	0.0%
2:00 PM	21.52	5.38	12.9%	0.00	0.00	0.0%
2:15 PM	28.07	7.02	16.8%	0.00	0.00	0.0%
2:30 PM	34.73	8.68	20.8%	0.00	0.00	0.0%
2:45 PM	41.46	10.36	24.8%	0.00	0.00	0.0%
3:00 PM	48.19	12.05	28.8%	0.00	0.00	0.0%
3:15 PM	55.08	13.77	33.0%	0.00	0.00	0.0%
3:30 PM	61.85	15.46	37.0%	0.00	0.00	0.0%
3:45 PM	68.85	17.21	41.2%	0.00	0.00	0.0%
4:00 PM	75.56	18.89	45.2%	0.00	0.00	0.0%
4:15 PM	82.38	20.60	49.3%	0.00	0.00	0.0%
4:30 PM	88.61	22.15	53.0%	0.00	0.00	0.0%
4:45 PM	94.24	23.56	56.4%	0.00	0.00	0.0%
5:00 PM	99.56	24.89	59.6%	0.00	0.00	0.0%
5:15 PM	106.33	26.58	63.6%	0.00	0.00	0.0%
5:30 PM	116.92	29.23	69.9%	0.00	0.00	0.0%
5:45 PM	128.08	32.02	76.6%	0.00	0.00	0.0%
6:00 PM	140.11	35.03	83.8%	0.00	0.00	0.0%
6:15 PM	151.81	37.95	90.8%	0.00	0.00	0.0%
6:30 PM	161.69	40.42	96.7%	0.00	0.00	0.0%
6:45 PM	167.04	41.76	99.9%	0.00	0.00	0.0%
7:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
7:15 PM	167.17	50.15	100.0%	0.00	0.00	0.0%
7:36 PM	167.17	30.09	100.0%	0.00	0.00	0.0%

JULY 12

Mirror date: May 31
 Analysis hours: 6:56 AM-7:33 PM (PDT)

Analysis Time	EXISTING SHADOW ON UPPER DECK			588 2ND STREET NET NEW SHADOW ON UPPER DECK		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
6:56 AM	167.17	5.01	100.0%	0.00	0.00	0.0%
7:00 AM	167.17	25.07	100.0%	0.00	0.00	0.0%
7:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
7:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
7:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:15 AM	133.10	33.27	79.6%	0.00	0.00	0.0%
8:30 AM	73.35	18.34	43.9%	0.00	0.00	0.0%
8:45 AM	20.04	5.01	12.0%	0.00	0.00	0.0%
9:00 AM	1.81	0.45	1.1%	0.00	0.00	0.0%
9:15 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
9:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
9:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:00 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:15 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:00 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:15 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:00 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:15 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:30 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:45 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
1:00 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
1:15 PM	1.47	0.37	0.9%	0.00	0.00	0.0%
1:30 PM	8.13	2.03	4.9%	0.00	0.00	0.0%
1:45 PM	14.68	3.67	8.8%	0.00	0.00	0.0%
2:00 PM	21.47	5.37	12.8%	0.00	0.00	0.0%
2:15 PM	28.14	7.03	16.8%	0.00	0.00	0.0%
2:30 PM	34.96	8.74	20.9%	0.00	0.00	0.0%
2:45 PM	41.83	10.46	25.0%	0.00	0.00	0.0%
3:00 PM	48.72	12.18	29.1%	0.00	0.00	0.0%
3:15 PM	55.82	13.95	33.4%	0.00	0.00	0.0%
3:30 PM	62.82	15.70	37.6%	0.00	0.00	0.0%
3:45 PM	70.06	17.52	41.9%	0.00	0.00	0.0%
4:00 PM	77.07	19.27	46.1%	0.00	0.00	0.0%
4:15 PM	84.26	21.06	50.4%	0.00	0.00	0.0%
4:30 PM	90.93	22.73	54.4%	0.00	0.00	0.0%
4:45 PM	96.86	24.22	57.9%	0.00	0.00	0.0%
5:00 PM	101.66	25.41	60.8%	0.00	0.00	0.0%
5:15 PM	107.68	26.92	64.4%	0.00	0.00	0.0%
5:30 PM	117.07	29.27	70.0%	0.00	0.00	0.0%
5:45 PM	128.04	32.01	76.6%	0.00	0.00	0.0%
6:00 PM	139.85	34.96	83.7%	0.00	0.00	0.0%
6:15 PM	151.70	37.93	90.7%	0.00	0.00	0.0%
6:30 PM	161.75	40.44	96.8%	0.00	0.00	0.0%
6:45 PM	167.05	41.76	99.9%	0.00	0.00	0.0%
7:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
7:15 PM	167.17	46.81	100.0%	0.00	0.00	0.0%
7:33 PM	167.17	25.07	100.0%	0.00	0.00	0.0%

JULY 19

Mirror date: May 24
 Analysis hours: 7:01 AM-7:30 PM (PDT)

Analysis Time	EXISTING SHADOW ON UPPER DECK			588 2ND STREET NET NEW SHADOW ON UPPER DECK		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:01 AM	167.17	21.73	100.0%	0.00	0.00	0.0%
7:16 AM	167.17	40.12	100.0%	0.00	0.00	0.0%
7:30 AM	167.17	40.12	100.0%	0.00	0.00	0.0%
7:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:15 AM	150.56	37.64	90.1%	0.00	0.00	0.0%
8:30 AM	87.15	21.79	52.1%	0.00	0.00	0.0%
8:45 AM	31.20	7.80	18.7%	0.00	0.00	0.0%
9:00 AM	0.78	0.19	0.5%	0.00	0.00	0.0%
9:15 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
9:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
9:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:00 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:15 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:00 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:15 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:00 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:15 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:30 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:45 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
1:00 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
1:15 PM	1.27	0.32	0.8%	0.00	0.00	0.0%
1:30 PM	8.10	2.02	4.8%	0.00	0.00	0.0%
1:45 PM	14.85	3.71	8.9%	0.00	0.00	0.0%
2:00 PM	21.78	5.45	13.0%	0.00	0.00	0.0%
2:15 PM	28.63	7.16	17.1%	0.00	0.00	0.0%
2:30 PM	35.65	8.91	21.3%	0.00	0.00	0.0%
2:45 PM	42.73	10.68	25.6%	0.00	0.00	0.0%
3:00 PM	49.85	12.46	29.8%	0.00	0.00	0.0%
3:15 PM	57.22	14.31	34.2%	0.00	0.00	0.0%
3:30 PM	64.49	16.12	38.6%	0.00	0.00	0.0%
3:45 PM	72.10	18.02	43.1%	0.00	0.00	0.0%
4:00 PM	79.52	19.88	47.6%	0.00	0.00	0.0%
4:15 PM	87.20	21.80	52.2%	0.00	0.00	0.0%
4:30 PM	94.47	23.62	56.5%	0.00	0.00	0.0%
4:45 PM	100.89	25.22	60.4%	0.00	0.00	0.0%
5:00 PM	105.72	26.43	63.2%	0.00	0.00	0.0%
5:15 PM	110.83	27.71	66.3%	0.00	0.00	0.0%
5:30 PM	118.00	29.50	70.6%	0.00	0.00	0.0%
5:45 PM	128.79	32.20	77.0%	0.00	0.00	0.0%
6:00 PM	140.32	35.08	83.9%	0.00	0.00	0.0%
6:15 PM	152.21	38.05	91.1%	0.00	0.00	0.0%
6:30 PM	162.24	40.56	97.1%	0.00	0.00	0.0%
6:45 PM	167.14	41.78	100.0%	0.00	0.00	0.0%
7:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
7:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
7:30 PM	167.17	21.73	100.0%	0.00	0.00	0.0%

JULY 26

Mirror date: May 17
 Analysis hours: 7:07 AM-7:25 PM (PDT)

Analysis Time	EXISTING SHADOW ON UPPER DECK			588 2ND STREET NET NEW SHADOW ON UPPER DECK		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:07 AM	167.17	10.03	100.0%	0.00	0.00	0.0%
7:15 AM	167.17	31.76	100.0%	0.00	0.00	0.0%
7:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
7:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:30 AM	104.16	26.04	62.3%	0.00	0.00	0.0%
8:45 AM	44.88	11.22	26.8%	0.00	0.00	0.0%
9:00 AM	1.15	0.29	0.7%	0.00	0.00	0.0%
9:15 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
9:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
9:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:00 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:15 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:00 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:15 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:00 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:15 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:30 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:45 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
1:00 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
1:15 PM	1.27	0.32	0.8%	0.00	0.00	0.0%
1:30 PM	8.24	2.06	4.9%	0.00	0.00	0.0%
1:45 PM	15.26	3.81	9.1%	0.00	0.00	0.0%
2:00 PM	22.40	5.60	13.4%	0.00	0.00	0.0%
2:15 PM	29.48	7.37	17.6%	0.00	0.00	0.0%
2:30 PM	36.74	9.19	22.0%	0.00	0.00	0.0%
2:45 PM	44.10	11.02	26.4%	0.00	0.00	0.0%
3:00 PM	51.51	12.88	30.8%	0.00	0.00	0.0%
3:15 PM	59.22	14.80	35.4%	0.00	0.00	0.0%
3:30 PM	66.93	16.73	40.0%	0.00	0.00	0.0%
3:45 PM	74.93	18.73	44.8%	0.00	0.00	0.0%
4:00 PM	82.88	20.72	49.6%	0.00	0.00	0.0%
4:15 PM	91.19	22.80	54.5%	0.00	0.00	0.0%
4:30 PM	99.24	24.81	59.4%	0.00	0.00	0.0%
4:45 PM	106.33	26.58	63.6%	0.00	0.00	0.0%
5:00 PM	111.17	27.79	66.5%	0.00	0.00	0.0%
5:15 PM	115.81	28.95	69.3%	0.00	0.00	0.0%
5:30 PM	121.02	30.26	72.4%	0.00	0.00	0.0%
5:45 PM	130.35	32.59	78.0%	0.00	0.00	0.0%
6:00 PM	141.55	35.39	84.7%	0.00	0.00	0.0%
6:15 PM	153.17	38.29	91.6%	0.00	0.00	0.0%
6:30 PM	163.03	40.76	97.5%	0.00	0.00	0.0%
6:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
7:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
7:15 PM	167.17	35.10	100.0%	0.00	0.00	0.0%
7:25 PM	167.17	15.04	100.0%	0.00	0.00	0.0%

AUGUST 2

Mirror date: May 10
 Analysis hours: 7:12 AM-7:18 PM (PDT)

Analysis Time	EXISTING SHADOW ON UPPER DECK			588 2ND STREET NET NEW SHADOW ON UPPER DECK		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:12 AM	167.17	3.34	100.0%	0.00	0.00	0.0%
7:15 AM	167.17	25.07	100.0%	0.00	0.00	0.0%
7:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
7:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:30 AM	123.76	30.94	74.0%	0.00	0.00	0.0%
8:45 AM	59.85	14.96	35.8%	0.00	0.00	0.0%
9:00 AM	9.69	2.42	5.8%	0.00	0.00	0.0%
9:15 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
9:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
9:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:00 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:15 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:00 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:15 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:00 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:15 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:30 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:45 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
1:00 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
1:15 PM	1.56	0.39	0.9%	0.00	0.00	0.0%
1:30 PM	8.83	2.21	5.3%	0.00	0.00	0.0%
1:45 PM	16.06	4.02	9.6%	0.00	0.00	0.0%
2:00 PM	23.45	5.86	14.0%	0.00	0.00	0.0%
2:15 PM	30.81	7.70	18.4%	0.00	0.00	0.0%
2:30 PM	38.36	9.59	22.9%	0.00	0.00	0.0%
2:45 PM	46.05	11.51	27.5%	0.00	0.00	0.0%
3:00 PM	53.85	13.46	32.2%	0.00	0.00	0.0%
3:15 PM	61.95	15.49	37.1%	0.00	0.00	0.0%
3:30 PM	70.13	17.53	41.9%	0.00	0.00	0.0%
3:45 PM	78.70	19.68	47.1%	0.00	0.00	0.0%
4:00 PM	87.28	21.82	52.2%	0.00	0.00	0.0%
4:15 PM	96.39	24.10	57.7%	0.00	0.00	0.0%
4:30 PM	105.38	26.35	63.0%	0.00	0.00	0.0%
4:45 PM	113.34	28.34	67.8%	0.00	0.00	0.0%
5:00 PM	118.15	29.54	70.7%	0.00	0.00	0.0%
5:15 PM	122.81	30.70	73.5%	0.00	0.00	0.0%
5:30 PM	126.75	31.69	75.8%	0.00	0.00	0.0%
5:45 PM	132.79	33.20	79.4%	0.00	0.00	0.0%
6:00 PM	143.47	35.87	85.8%	0.00	0.00	0.0%
6:15 PM	154.42	38.61	92.4%	0.00	0.00	0.0%
6:30 PM	164.06	41.01	98.1%	0.00	0.00	0.0%
6:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
7:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
7:15 PM	167.17	25.07	100.0%	0.00	0.00	0.0%
7:18 PM	167.17	5.01	100.0%	0.00	0.00	0.0%

AUGUST 9

Mirror date: May 3

Analysis hours: 7:19 AM-7:10 PM (PDT)

Analysis Time	EXISTING SHADOW ON UPPER DECK			588 2ND STREET NET NEW SHADOW ON UPPER DECK		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:19 AM	167.17	15.04	100.0%	0.00	0.00	0.0%
7:30 AM	167.17	35.10	100.0%	0.00	0.00	0.0%
7:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:30 AM	146.84	36.71	87.8%	0.00	0.00	0.0%
8:45 AM	78.61	19.65	47.0%	0.00	0.00	0.0%
9:00 AM	22.56	5.64	13.5%	0.00	0.00	0.0%
9:15 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
9:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
9:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:00 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:15 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:00 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:15 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:00 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:15 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:30 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:45 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
1:00 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
1:15 PM	2.06	0.51	1.2%	0.00	0.00	0.0%
1:30 PM	9.63	2.41	5.8%	0.00	0.00	0.0%
1:45 PM	17.19	4.30	10.3%	0.00	0.00	0.0%
2:00 PM	24.89	6.22	14.9%	0.00	0.00	0.0%
2:15 PM	32.59	8.15	19.5%	0.00	0.00	0.0%
2:30 PM	40.50	10.13	24.2%	0.00	0.00	0.0%
2:45 PM	48.56	12.14	29.0%	0.00	0.00	0.0%
3:00 PM	56.82	14.20	34.0%	0.00	0.00	0.0%
3:15 PM	65.41	16.35	39.1%	0.00	0.00	0.0%
3:30 PM	74.16	18.54	44.4%	0.00	0.00	0.0%
3:45 PM	83.38	20.85	49.9%	0.00	0.00	0.0%
4:00 PM	92.75	23.19	55.5%	0.00	0.00	0.0%
4:15 PM	102.76	25.69	61.5%	0.00	0.00	0.0%
4:30 PM	112.90	28.23	67.5%	0.00	0.00	0.0%
4:45 PM	121.89	30.47	72.9%	0.00	0.00	0.0%
5:00 PM	126.63	31.66	75.8%	0.00	0.00	0.0%
5:15 PM	131.03	32.76	78.4%	0.00	0.00	0.0%
5:30 PM	134.60	33.65	80.5%	0.00	0.00	0.0%
5:45 PM	138.27	34.57	82.7%	0.00	0.00	0.0%
6:00 PM	145.85	36.46	87.2%	0.00	0.00	0.0%
6:15 PM	155.99	39.00	93.3%	0.00	0.00	0.0%
6:30 PM	165.06	41.27	98.7%	0.00	0.00	0.0%
6:45 PM	167.17	56.84	100.0%	0.00	0.00	0.0%
7:10 PM	167.17	35.10	100.0%	0.00	0.00	0.0%

AUGUST 16

Mirror date: April 26

Analysis hours: 7:25 AM-7:02 PM (PDT)

Analysis Time	EXISTING SHADOW ON UPPER DECK			588 2ND STREET NET NEW SHADOW ON UPPER DECK		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:25 AM	167.17	6.69	100.0%	0.00	0.00	0.0%
7:30 AM	167.17	28.42	100.0%	0.00	0.00	0.0%
7:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:45 AM	99.86	24.97	59.7%	0.00	0.00	0.0%
9:00 AM	39.17	9.79	23.4%	0.00	0.00	0.0%
9:15 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
9:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
9:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:00 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:15 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:00 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:15 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:00 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:15 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:30 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:45 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
1:00 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
1:15 PM	2.89	0.72	1.7%	0.00	0.00	0.0%
1:30 PM	10.74	2.68	6.4%	0.00	0.00	0.0%
1:45 PM	18.64	4.66	11.1%	0.00	0.00	0.0%
2:00 PM	26.67	6.67	16.0%	0.00	0.00	0.0%
2:15 PM	34.75	8.69	20.8%	0.00	0.00	0.0%
2:30 PM	43.08	10.77	25.8%	0.00	0.00	0.0%
2:45 PM	51.59	12.90	30.9%	0.00	0.00	0.0%
3:00 PM	60.35	15.09	36.1%	0.00	0.00	0.0%
3:15 PM	69.49	17.37	41.6%	0.00	0.00	0.0%
3:30 PM	78.85	19.71	47.2%	0.00	0.00	0.0%
3:45 PM	88.93	22.23	53.2%	0.00	0.00	0.0%
4:00 PM	99.24	24.81	59.4%	0.00	0.00	0.0%
4:15 PM	110.38	27.59	66.0%	0.00	0.00	0.0%
4:30 PM	121.86	30.47	72.9%	0.00	0.00	0.0%
4:45 PM	131.69	32.92	78.8%	0.00	0.00	0.0%
5:00 PM	135.88	33.97	81.3%	0.00	0.00	0.0%
5:15 PM	139.83	34.96	83.6%	0.00	0.00	0.0%
5:30 PM	143.03	35.76	85.6%	0.00	0.00	0.0%
5:45 PM	145.99	36.50	87.3%	0.00	0.00	0.0%
6:00 PM	149.30	37.32	89.3%	0.00	0.00	0.0%
6:15 PM	157.93	39.48	94.5%	0.00	0.00	0.0%
6:30 PM	165.92	41.48	99.3%	0.00	0.00	0.0%
6:45 PM	167.17	45.13	100.0%	0.00	0.00	0.0%
7:02 PM	167.17	23.40	100.0%	0.00	0.00	0.0%

AUGUST 23

Mirror date: April 19

Analysis hours: 7:31 AM-6:52 PM (PDT)

Analysis Time	EXISTING SHADOW ON UPPER DECK			588 2ND STREET NET NEW SHADOW ON UPPER DECK		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:31 AM	167.17	18.39	100.0%	0.00	0.00	0.0%
7:45 AM	167.17	38.45	100.0%	0.00	0.00	0.0%
8:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:45 AM	122.17	30.54	73.1%	0.00	0.00	0.0%
9:00 AM	56.38	14.09	33.7%	0.00	0.00	0.0%
9:15 AM	5.83	1.46	3.5%	0.00	0.00	0.0%
9:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
9:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:00 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:15 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:00 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:15 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:00 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:15 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:30 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:45 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
1:00 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
1:15 PM	4.09	1.02	2.4%	0.00	0.00	0.0%
1:30 PM	12.32	3.08	7.4%	0.00	0.00	0.0%
1:45 PM	20.56	5.14	12.3%	0.00	0.00	0.0%
2:00 PM	28.96	7.24	17.3%	0.00	0.00	0.0%
2:15 PM	37.48	9.37	22.4%	0.00	0.00	0.0%
2:30 PM	46.25	11.56	27.7%	0.00	0.00	0.0%
2:45 PM	55.28	13.82	33.1%	0.00	0.00	0.0%
3:00 PM	64.60	16.15	38.6%	0.00	0.00	0.0%
3:15 PM	74.43	18.61	44.5%	0.00	0.00	0.0%
3:30 PM	84.69	21.17	50.7%	0.00	0.00	0.0%
3:45 PM	95.58	23.90	57.2%	0.00	0.00	0.0%
4:00 PM	107.01	26.75	64.0%	0.00	0.00	0.0%
4:15 PM	119.42	29.86	71.4%	0.00	0.00	0.0%
4:30 PM	132.59	33.15	79.3%	0.00	0.00	0.0%
4:45 PM	141.97	35.49	84.9%	0.00	0.00	0.0%
5:00 PM	145.56	36.39	87.1%	0.00	0.00	0.0%
5:15 PM	148.98	37.24	89.1%	0.00	0.00	0.0%
5:30 PM	151.70	37.93	90.7%	0.00	0.00	0.0%
5:45 PM	154.26	38.57	92.3%	0.00	0.00	0.0%
6:00 PM	156.40	39.10	93.6%	0.00	0.00	0.0%
6:15 PM	160.38	40.10	95.9%	0.00	0.00	0.0%
6:30 PM	166.62	41.65	99.7%	0.00	0.00	0.0%
6:45 PM	167.17	31.76	100.0%	0.00	0.00	0.0%
6:52 PM	167.17	10.03	100.0%	0.00	0.00	0.0%

AUGUST 30

Mirror date: April 12
 Analysis hours: 7:37 AM-6:42 PM (PDT)

Analysis Time	EXISTING SHADOW ON UPPER DECK			588 2ND STREET NET NEW SHADOW ON UPPER DECK		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:37 AM	167.17	10.03	100.0%	0.00	0.00	0.0%
7:45 AM	167.17	31.76	100.0%	0.00	0.00	0.0%
8:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:45 AM	147.26	36.82	88.1%	0.00	0.00	0.0%
9:00 AM	75.47	18.87	45.1%	0.00	0.00	0.0%
9:15 AM	17.28	4.32	10.3%	0.00	0.00	0.0%
9:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
9:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:00 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:15 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:30 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
10:45 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:00 AM	0.00	0.00	0.0%	0.00	0.00	0.0%
11:15 AM	0.75	0.19	0.4%	0.00	0.00	0.0%
11:30 AM	0.54	0.14	0.3%	0.00	0.00	0.0%
11:45 AM	0.63	0.16	0.4%	0.00	0.00	0.0%
12:00 PM	0.06	0.02	0.0%	0.00	0.00	0.0%
12:15 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:30 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:45 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
1:00 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
1:15 PM	5.67	1.42	3.4%	0.00	0.00	0.0%
1:30 PM	14.13	3.53	8.4%	0.00	0.00	0.0%
1:45 PM	22.74	5.69	13.6%	0.00	0.00	0.0%
2:00 PM	31.59	7.90	18.9%	0.00	0.00	0.0%
2:15 PM	40.54	10.14	24.3%	0.00	0.00	0.0%
2:30 PM	49.85	12.46	29.8%	0.00	0.00	0.0%
2:45 PM	59.41	14.85	35.5%	0.00	0.00	0.0%
3:00 PM	69.42	17.36	41.5%	0.00	0.00	0.0%
3:15 PM	79.99	20.00	47.9%	0.00	0.00	0.0%
3:30 PM	91.14	22.78	54.5%	0.00	0.00	0.0%
3:45 PM	103.08	25.77	61.7%	0.00	0.00	0.0%
4:00 PM	115.78	28.95	69.3%	0.00	0.00	0.0%
4:15 PM	129.90	32.47	77.7%	0.00	0.00	0.0%
4:30 PM	144.03	36.01	86.2%	0.00	0.00	0.0%
4:45 PM	152.22	38.05	91.1%	0.00	0.00	0.0%
5:00 PM	155.11	38.78	92.8%	0.00	0.00	0.0%
5:15 PM	157.94	39.48	94.5%	0.00	0.00	0.0%
5:30 PM	160.12	40.03	95.8%	0.00	0.00	0.0%
5:45 PM	162.14	40.53	97.0%	0.00	0.00	0.0%
6:00 PM	163.60	40.90	97.9%	0.00	0.00	0.0%
6:15 PM	164.82	41.20	98.6%	0.00	0.00	0.0%
6:30 PM	167.12	38.44	100.0%	0.00	0.00	0.0%
6:42 PM	167.17	18.39	100.0%	0.00	0.00	0.0%

SEPTEMBER 6

Mirror date: April 5
 Analysis hours: 7:44 AM-6:31 PM (PDT)

Analysis Time	EXISTING SHADOW ON UPPER DECK			588 2ND STREET NET NEW SHADOW ON UPPER DECK		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:44 AM	167.17	21.73	100.0%	0.00	0.00	0.0%
8:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:00 AM	96.58	24.14	57.8%	0.00	0.00	0.0%
9:15 AM	33.57	8.39	20.1%	0.00	0.00	0.0%
9:30 AM	3.38	0.85	2.0%	0.00	0.00	0.0%
9:45 AM	9.24	2.31	5.5%	0.00	0.00	0.0%
10:00 AM	14.26	3.56	8.5%	0.00	0.00	0.0%
10:15 AM	18.43	4.61	11.0%	0.00	0.00	0.0%
10:30 AM	18.49	4.62	11.1%	0.00	0.00	0.0%
10:45 AM	17.38	4.35	10.4%	0.00	0.00	0.0%
11:00 AM	13.86	3.47	8.3%	0.00	0.00	0.0%
11:15 AM	11.66	2.91	7.0%	0.00	0.00	0.0%
11:30 AM	7.97	1.99	4.8%	0.00	0.00	0.0%
11:45 AM	5.21	1.30	3.1%	0.00	0.00	0.0%
12:00 PM	1.75	0.44	1.0%	0.00	0.00	0.0%
12:15 PM	0.02	0.01	0.0%	0.00	0.00	0.0%
12:30 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
12:45 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
1:00 PM	0.00	0.00	0.0%	0.00	0.00	0.0%
1:15 PM	7.03	1.76	4.2%	0.00	0.00	0.0%
1:30 PM	16.17	4.04	9.7%	0.00	0.00	0.0%
1:45 PM	25.22	6.31	15.1%	0.00	0.00	0.0%
2:00 PM	34.47	8.62	20.6%	0.00	0.00	0.0%
2:15 PM	43.90	10.97	26.3%	0.00	0.00	0.0%
2:30 PM	53.69	13.42	32.1%	0.00	0.00	0.0%
2:45 PM	63.90	15.98	38.2%	0.00	0.00	0.0%
3:00 PM	74.64	18.66	44.6%	0.00	0.00	0.0%
3:15 PM	86.49	21.62	51.7%	0.00	0.00	0.0%
3:30 PM	98.93	24.73	59.2%	0.00	0.00	0.0%
3:45 PM	112.07	28.02	67.0%	0.00	0.00	0.0%
4:00 PM	125.51	31.38	75.1%	0.00	0.00	0.0%
4:15 PM	141.42	35.35	84.6%	0.00	0.00	0.0%
4:30 PM	154.95	38.74	92.7%	0.00	0.00	0.0%
4:45 PM	161.73	40.43	96.7%	0.00	0.00	0.0%
5:00 PM	163.67	40.92	97.9%	0.00	0.00	0.0%
5:15 PM	165.19	41.30	98.8%	0.00	0.00	0.0%
5:30 PM	166.08	41.52	99.3%	0.00	0.00	0.0%
5:45 PM	166.71	41.68	99.7%	0.00	0.00	0.0%
6:00 PM	167.01	41.75	99.9%	0.00	0.00	0.0%
6:15 PM	167.17	45.13	100.0%	0.00	0.00	0.0%
6:31 PM	167.17	23.40	100.0%	0.00	0.00	0.0%

SEPTEMBER 13

Mirror date: March 29
 Analysis hours: 7:50 AM-6:21 PM (PDT)

Analysis Time	EXISTING SHADOW ON UPPER DECK			588 2ND STREET NET NEW SHADOW ON UPPER DECK		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:50 AM	167.17	13.37	100.0%	0.00	0.00	0.0%
8:00 AM	167.17	35.10	100.0%	0.00	0.00	0.0%
8:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:00 AM	120.26	30.07	71.9%	0.00	0.00	0.0%
9:15 AM	60.60	15.15	36.3%	0.00	0.00	0.0%
9:30 AM	24.88	6.22	14.9%	0.00	0.00	0.0%
9:45 AM	37.69	9.42	22.5%	0.00	0.00	0.0%
10:00 AM	45.55	11.39	27.2%	0.00	0.00	0.0%
10:15 AM	51.38	12.84	30.7%	0.00	0.00	0.0%
10:30 AM	50.05	12.51	29.9%	0.00	0.00	0.0%
10:45 AM	42.76	10.69	25.6%	0.00	0.00	0.0%
11:00 AM	33.68	8.42	20.1%	0.00	0.00	0.0%
11:15 AM	26.97	6.74	16.1%	0.00	0.00	0.0%
11:30 AM	19.11	4.78	11.4%	0.00	0.00	0.0%
11:45 AM	12.77	3.19	7.6%	2.82	0.70	1.7%
12:00 PM	5.91	1.48	3.5%	5.01	1.25	3.0%
12:15 PM	1.35	0.34	0.8%	8.13	2.03	4.9%
12:30 PM	0.00	0.00	0.0%	9.23	2.31	5.5%
12:45 PM	0.00	0.00	0.0%	12.25	3.06	7.3%
1:00 PM	0.40	0.10	0.2%	12.15	3.04	7.3%
1:15 PM	9.04	2.26	5.4%	13.29	3.32	8.0%
1:30 PM	18.34	4.59	11.0%	9.97	2.49	6.0%
1:45 PM	27.74	6.94	16.6%	9.86	2.47	5.9%
2:00 PM	37.40	9.35	22.4%	6.72	1.68	4.0%
2:15 PM	47.28	11.82	28.3%	6.40	1.60	3.8%
2:30 PM	57.65	14.41	34.5%	3.38	0.85	2.0%
2:45 PM	68.39	17.10	40.9%	2.32	0.58	1.4%
3:00 PM	80.08	20.02	47.9%	0.00	0.00	0.0%
3:15 PM	95.07	23.77	56.9%	0.00	0.00	0.0%
3:30 PM	111.11	27.78	66.5%	0.00	0.00	0.0%
3:45 PM	128.53	32.13	76.9%	0.00	0.00	0.0%
4:00 PM	143.00	35.75	85.5%	0.00	0.00	0.0%
4:15 PM	155.82	38.95	93.2%	0.00	0.00	0.0%
4:30 PM	163.91	40.98	98.0%	0.00	0.00	0.0%
4:45 PM	166.89	41.72	99.8%	0.00	0.00	0.0%
5:00 PM	167.14	41.78	100.0%	0.00	0.00	0.0%
5:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
5:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
5:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
6:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
6:15 PM	167.17	30.09	100.0%	0.00	0.00	0.0%
6:21 PM	167.17	8.36	100.0%	0.00	0.00	0.0%

SEPTEMBER 20

Fall equinox (Spring equinox on March 22 similar)

Analysis hours: 7:57 AM-6:09 PM (PDT)

Analysis Time	EXISTING SHADOW ON UPPER DECK			588 2ND STREET NET NEW SHADOW ON UPPER DECK		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:57 AM	167.17	3.34	100.0%	0.00	0.00	0.0%
8:00 AM	167.17	25.07	100.0%	0.00	0.00	0.0%
8:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:00 AM	150.37	37.59	89.9%	0.00	0.00	0.0%
9:15 AM	97.79	24.45	58.5%	0.00	0.00	0.0%
9:30 AM	62.37	15.59	37.3%	0.00	0.00	0.0%
9:45 AM	70.69	17.67	42.3%	0.00	0.00	0.0%
10:00 AM	81.35	20.34	48.7%	0.00	0.00	0.0%
10:15 AM	88.50	22.13	52.9%	0.00	0.00	0.0%
10:30 AM	86.85	21.71	52.0%	0.00	0.00	0.0%
10:45 AM	72.60	18.15	43.4%	0.00	0.00	0.0%
11:00 AM	56.97	14.24	34.1%	0.00	0.00	0.0%
11:15 AM	44.77	11.19	26.8%	0.00	0.00	0.0%
11:30 AM	32.08	8.02	19.2%	1.82	0.45	1.1%
11:45 AM	21.49	5.37	12.9%	9.96	2.49	6.0%
12:00 PM	10.78	2.70	6.5%	16.80	4.20	10.0%
12:15 PM	2.88	0.72	1.7%	24.52	6.13	14.7%
12:30 PM	0.00	0.00	0.0%	29.81	7.45	17.8%
12:45 PM	0.00	0.00	0.0%	37.13	9.28	22.2%
1:00 PM	1.55	0.39	0.9%	41.26	10.31	24.7%
1:15 PM	10.83	2.71	6.5%	44.38	11.10	26.5%
1:30 PM	20.34	5.09	12.2%	39.69	9.92	23.7%
1:45 PM	29.91	7.48	17.9%	38.32	9.58	22.9%
2:00 PM	39.92	9.98	23.9%	33.47	8.37	20.0%
2:15 PM	50.04	12.51	29.9%	31.92	7.98	19.1%
2:30 PM	60.88	15.22	36.4%	27.02	6.76	16.2%
2:45 PM	72.03	18.01	43.1%	21.26	5.31	12.7%
3:00 PM	86.40	21.60	51.7%	12.64	3.16	7.6%
3:15 PM	105.07	26.27	62.9%	5.72	1.43	3.4%
3:30 PM	125.39	31.35	75.0%	0.00	0.00	0.0%
3:45 PM	146.57	36.64	87.7%	0.00	0.00	0.0%
4:00 PM	157.85	39.46	94.4%	0.00	0.00	0.0%
4:15 PM	164.85	41.21	98.6%	0.00	0.00	0.0%
4:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
4:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
5:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
5:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
5:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
5:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
6:00 PM	167.17	35.10	100.0%	0.00	0.00	0.0%
6:09 PM	167.17	13.37	100.0%	0.00	0.00	0.0%

SEPTEMBER 27

Mirror date: March 15
 Analysis hours: 8:03 AM-5:58 PM (PDT)

Analysis Time	EXISTING SHADOW ON UPPER DECK			588 2ND STREET NET NEW SHADOW ON UPPER DECK		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
8:03 AM	167.17	16.72	100.0%	0.00	0.00	0.0%
8:15 AM	167.17	36.78	100.0%	0.00	0.00	0.0%
8:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:15 AM	131.73	32.93	78.8%	0.00	0.00	0.0%
9:30 AM	106.28	26.57	63.6%	0.00	0.00	0.0%
9:45 AM	107.11	26.78	64.1%	0.00	0.00	0.0%
10:00 AM	120.76	30.19	72.2%	0.00	0.00	0.0%
10:15 AM	128.56	32.14	76.9%	0.00	0.00	0.0%
10:30 AM	125.90	31.47	75.3%	0.00	0.00	0.0%
10:45 AM	109.84	27.46	65.7%	0.00	0.00	0.0%
11:00 AM	88.88	22.22	53.2%	0.00	0.00	0.0%
11:15 AM	72.71	18.18	43.5%	0.00	0.00	0.0%
11:30 AM	54.70	13.68	32.7%	4.18	1.05	2.5%
11:45 AM	40.94	10.23	24.5%	16.05	4.01	9.6%
12:00 PM	24.78	6.19	14.8%	27.43	6.86	16.4%
12:15 PM	13.40	3.35	8.0%	38.66	9.66	23.1%
12:30 PM	6.70	1.68	4.0%	48.94	12.23	29.3%
12:45 PM	7.19	1.80	4.3%	59.92	14.98	35.8%
1:00 PM	8.29	2.07	5.0%	69.35	17.34	41.5%
1:15 PM	17.74	4.44	10.6%	74.32	18.58	44.5%
1:30 PM	24.99	6.25	15.0%	69.89	17.47	41.8%
1:45 PM	35.09	8.77	21.0%	66.34	16.59	39.7%
2:00 PM	43.37	10.84	25.9%	61.60	15.40	36.9%
2:15 PM	54.15	13.54	32.4%	57.84	14.46	34.6%
2:30 PM	63.69	15.92	38.1%	52.42	13.11	31.4%
2:45 PM	76.43	19.11	45.7%	41.84	10.46	25.0%
3:00 PM	93.38	23.35	55.9%	28.04	7.01	16.8%
3:15 PM	115.97	28.99	69.4%	13.93	3.48	8.3%
3:30 PM	140.13	35.03	83.8%	0.00	0.00	0.0%
3:45 PM	160.99	40.25	96.3%	0.00	0.00	0.0%
4:00 PM	165.23	41.31	98.8%	0.00	0.00	0.0%
4:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
4:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
4:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
5:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
5:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
5:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
5:45 PM	167.17	38.45	100.0%	0.00	0.00	0.0%
5:58 PM	167.17	18.39	100.0%	0.00	0.00	0.0%

OCTOBER 4

Mirror date: March 8

Analysis hours: 8:09 AM-5:47 PM (PDT)

Analysis Time	EXISTING SHADOW ON UPPER DECK			588 2ND STREET NET NEW SHADOW ON UPPER DECK		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
8:09 AM	167.17	6.69	100.0%	0.00	0.00	0.0%
8:15 AM	167.17	28.42	100.0%	0.00	0.00	0.0%
8:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:15 AM	156.81	39.20	93.8%	0.00	0.00	0.0%
9:30 AM	142.96	35.74	85.5%	0.00	0.00	0.0%
9:45 AM	137.69	34.42	82.4%	0.00	0.00	0.0%
10:00 AM	155.62	38.90	93.1%	0.00	0.00	0.0%
10:15 AM	167.07	41.77	99.9%	0.00	0.00	0.0%
10:30 AM	164.69	41.17	98.5%	0.00	0.00	0.0%
10:45 AM	149.57	37.39	89.5%	0.00	0.00	0.0%
11:00 AM	126.77	31.69	75.8%	0.00	0.00	0.0%
11:15 AM	108.87	27.22	65.1%	0.00	0.00	0.0%
11:30 AM	89.53	22.38	53.6%	4.33	1.08	2.6%
11:45 AM	74.41	18.60	44.5%	17.88	4.47	10.7%
12:00 PM	57.34	14.34	34.3%	30.88	7.72	18.5%
12:15 PM	44.22	11.06	26.5%	43.65	10.91	26.1%
12:30 PM	36.30	9.07	21.7%	55.51	13.88	33.2%
12:45 PM	36.54	9.14	21.9%	67.07	16.77	40.1%
1:00 PM	37.28	9.32	22.3%	76.46	19.11	45.7%
1:15 PM	46.26	11.57	27.7%	84.36	21.09	50.5%
1:30 PM	52.29	13.07	31.3%	78.74	19.68	47.1%
1:45 PM	61.40	15.35	36.7%	74.25	18.56	44.4%
2:00 PM	68.33	17.08	40.9%	68.85	17.21	41.2%
2:15 PM	78.28	19.57	46.8%	63.97	15.99	38.3%
2:30 PM	86.51	21.63	51.8%	57.33	14.33	34.3%
2:45 PM	98.66	24.66	59.0%	44.08	11.02	26.4%
3:00 PM	114.64	28.66	68.6%	28.13	7.03	16.8%
3:15 PM	136.20	34.05	81.5%	11.00	2.75	6.6%
3:30 PM	158.54	39.64	94.8%	0.00	0.00	0.0%
3:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
4:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
4:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
4:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
4:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
5:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
5:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
5:30 PM	167.17	45.13	100.0%	0.00	0.00	0.0%
5:47 PM	167.17	23.40	100.0%	0.00	0.00	0.0%

OCTOBER 11

Mirror date: March 1

Analysis hours: 8:16 AM-5:37 PM (PDT)

Analysis Time	EXISTING SHADOW ON UPPER DECK			588 2ND STREET NET NEW SHADOW ON UPPER DECK		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
8:16 AM	167.17	20.06	100.0%	0.00	0.00	0.0%
8:30 AM	167.17	40.12	100.0%	0.00	0.00	0.0%
8:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:30 AM	163.13	40.78	97.6%	0.00	0.00	0.0%
9:45 AM	155.03	38.76	92.7%	0.00	0.00	0.0%
10:00 AM	164.46	41.11	98.4%	0.00	0.00	0.0%
10:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:45 AM	161.35	40.34	96.5%	0.00	0.00	0.0%
11:00 AM	146.99	36.75	87.9%	0.00	0.00	0.0%
11:15 AM	133.06	33.26	79.6%	0.00	0.00	0.0%
11:30 AM	117.42	29.36	70.2%	4.22	1.05	2.5%
11:45 AM	103.78	25.95	62.1%	17.96	4.49	10.7%
12:00 PM	87.81	21.95	52.5%	32.69	8.17	19.6%
12:15 PM	77.17	19.29	46.2%	46.65	11.66	27.9%
12:30 PM	70.67	17.67	42.3%	62.19	15.55	37.2%
12:45 PM	70.83	17.71	42.4%	75.72	18.93	45.3%
1:00 PM	72.05	18.01	43.1%	85.69	21.42	51.3%
1:15 PM	79.10	19.77	47.3%	87.21	21.80	52.2%
1:30 PM	83.42	20.86	49.9%	81.24	20.31	48.6%
1:45 PM	91.34	22.84	54.6%	75.18	18.80	45.0%
2:00 PM	96.91	24.23	58.0%	69.01	17.25	41.3%
2:15 PM	105.67	26.42	63.2%	61.50	15.38	36.8%
2:30 PM	112.52	28.13	67.3%	53.18	13.30	31.8%
2:45 PM	123.60	30.90	73.9%	35.72	8.93	21.4%
3:00 PM	138.16	34.54	82.6%	18.56	4.64	11.1%
3:15 PM	156.28	39.07	93.5%	5.25	1.31	3.1%
3:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
4:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
4:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
4:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
4:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
5:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
5:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
5:30 PM	167.17	31.76	100.0%	0.00	0.00	0.0%
5:37 PM	167.17	10.03	100.0%	0.00	0.00	0.0%

OCTOBER 18

Mirror date: February 22

Analysis hours: 8:22 AM-5:27 PM (PDT)

Analysis Time	EXISTING SHADOW ON UPPER DECK			588 2ND STREET NET NEW SHADOW ON UPPER DECK		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
8:22 AM	167.17	10.03	100.0%	0.00	0.00	0.0%
8:30 AM	167.17	30.09	100.0%	0.00	0.00	0.0%
8:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:45 AM	165.69	41.42	99.1%	0.00	0.00	0.0%
10:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:45 AM	165.97	41.49	99.3%	0.00	0.00	0.0%
11:00 AM	158.93	39.73	95.1%	0.00	0.00	0.0%
11:15 AM	150.91	37.73	90.3%	0.00	0.00	0.0%
11:30 AM	140.28	35.07	83.9%	3.50	0.88	2.1%
11:45 AM	131.11	32.78	78.4%	11.59	2.90	6.9%
12:00 PM	119.13	29.78	71.3%	21.19	5.30	12.7%
12:15 PM	112.47	28.12	67.3%	30.04	7.51	18.0%
12:30 PM	107.08	26.77	64.1%	40.92	10.23	24.5%
12:45 PM	107.13	26.78	64.1%	49.40	12.35	29.5%
1:00 PM	107.57	26.89	64.3%	56.94	14.24	34.1%
1:15 PM	112.83	28.21	67.5%	54.33	13.58	32.5%
1:30 PM	115.44	28.86	69.1%	51.73	12.93	30.9%
1:45 PM	121.82	30.45	72.9%	45.35	11.34	27.1%
2:00 PM	125.81	31.45	75.3%	41.35	10.34	24.7%
2:15 PM	132.98	33.24	79.5%	34.19	8.55	20.5%
2:30 PM	138.17	34.54	82.7%	28.88	7.22	17.3%
2:45 PM	147.53	36.88	88.3%	17.35	4.34	10.4%
3:00 PM	157.82	39.45	94.4%	7.01	1.75	4.2%
3:15 PM	166.72	41.68	99.7%	0.00	0.00	0.0%
3:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
4:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
4:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
4:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
4:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
5:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
5:15 PM	167.17	36.78	100.0%	0.00	0.00	0.0%
5:27 PM	167.17	16.72	100.0%	0.00	0.00	0.0%

OCTOBER 25

Mirror date: February 15
 Analysis hours: 7:30 AM-4:18 PM (PST)

Analysis Time	EXISTING SHADOW ON UPPER DECK			588 2ND STREET NET NEW SHADOW ON UPPER DECK		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:30 AM	167.17	21.73	100.0%	0.00	0.00	0.0%
7:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:30 AM	163.17	40.79	97.6%	0.00	0.00	0.0%
10:45 AM	159.18	39.80	95.2%	2.90	0.73	1.7%
11:00 AM	151.72	37.93	90.8%	7.31	1.83	4.4%
11:15 AM	149.16	37.29	89.2%	10.97	2.74	6.6%
11:30 AM	144.55	36.14	86.5%	17.01	4.25	10.2%
11:45 AM	144.48	36.12	86.4%	20.43	5.11	12.2%
12:00 PM	143.25	35.81	85.7%	23.92	5.98	14.3%
12:15 PM	146.53	36.63	87.7%	20.63	5.16	12.3%
12:30 PM	147.28	36.82	88.1%	19.88	4.97	11.9%
12:45 PM	151.64	37.91	90.7%	15.53	3.88	9.3%
1:00 PM	153.70	38.43	91.9%	13.47	3.37	8.1%
1:15 PM	158.40	39.60	94.8%	8.77	2.19	5.2%
1:30 PM	161.05	40.26	96.3%	6.12	1.53	3.7%
1:45 PM	165.47	41.37	99.0%	1.70	0.43	1.0%
2:00 PM	167.11	41.78	100.0%	0.00	0.00	0.0%
2:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
4:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
4:15 PM	167.17	25.07	100.0%	0.00	0.00	0.0%
4:18 PM	167.17	5.01	100.0%	0.00	0.00	0.0%

NOVEMBER 1

Mirror date: February 8
 Analysis hours: 7:36 AM-4:10 PM (PST)

Analysis Time	EXISTING SHADOW ON UPPER DECK			588 2ND STREET NET NEW SHADOW ON UPPER DECK		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:36 AM	167.17	11.70	100.0%	0.00	0.00	0.0%
7:45 AM	167.17	31.76	100.0%	0.00	0.00	0.0%
8:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
4:00 PM	167.17	35.10	100.0%	0.00	0.00	0.0%
4:10 PM	167.17	15.04	100.0%	0.00	0.00	0.0%

NOVEMBER 8

Mirror date: February 1
 Analysis hours: 7:43 AM-4:03 PM (PST)

Analysis Time	EXISTING SHADOW ON UPPER DECK			588 2ND STREET NET NEW SHADOW ON UPPER DECK		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:43 AM	167.17	1.67	100.0%	0.00	0.00	0.0%
7:45 AM	167.17	21.73	100.0%	0.00	0.00	0.0%
8:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
4:00 PM	167.17	25.07	100.0%	0.00	0.00	0.0%
4:03 PM	167.17	5.01	100.0%	0.00	0.00	0.0%

NOVEMBER 15

Mirror date: January 25
 Analysis hours: 7:51 AM-3:57 PM (PST)

Analysis Time	EXISTING SHADOW ON UPPER DECK			588 2ND STREET NET NEW SHADOW ON UPPER DECK		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:51 AM	167.17	13.37	100.0%	0.00	0.00	0.0%
8:00 AM	167.17	33.43	100.0%	0.00	0.00	0.0%
8:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:45 PM	167.17	38.45	100.0%	0.00	0.00	0.0%
3:57 PM	167.17	18.39	100.0%	0.00	0.00	0.0%

NOVEMBER 22

Mirror date: January 18
 Analysis hours: 7:57 AM-3:54 PM (PST)

Analysis Time	EXISTING SHADOW ON UPPER DECK			588 2ND STREET NET NEW SHADOW ON UPPER DECK		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:57 AM	167.17	3.34	100.0%	0.00	0.00	0.0%
8:00 AM	167.17	25.07	100.0%	0.00	0.00	0.0%
8:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:45 PM	167.17	33.43	100.0%	0.00	0.00	0.0%
3:54 PM	167.17	13.37	100.0%	0.00	0.00	0.0%

NOVEMBER 29

Mirror date: January 11
 Analysis hours: 8:04 AM-3:51 PM (PST)

Analysis Time	EXISTING SHADOW ON UPPER DECK			588 2ND STREET NET NEW SHADOW ON UPPER DECK		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
8:04 AM	167.17	15.04	100.0%	0.00	0.00	0.0%
8:15 AM	167.17	35.10	100.0%	0.00	0.00	0.0%
8:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:45 PM	167.17	30.09	100.0%	0.00	0.00	0.0%
3:51 PM	167.17	8.36	100.0%	0.00	0.00	0.0%

DECEMBER 6

Mirror date: January 4
 Analysis hours: 8:10 AM-3:51 PM (PST)

Analysis Time	EXISTING SHADOW ON UPPER DECK			588 2ND STREET NET NEW SHADOW ON UPPER DECK		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
8:10 AM	167.17	6.69	100.0%	0.00	0.00	0.0%
8:15 AM	167.17	28.42	100.0%	0.00	0.00	0.0%
8:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:45 PM	167.17	28.42	100.0%	0.00	0.00	0.0%
3:51 PM	167.17	8.36	100.0%	0.00	0.00	0.0%

DECEMBER 13

Mirror date: December 28

Analysis hours: 8:15 AM-3:52 PM (PST)

Analysis Time	EXISTING SHADOW ON UPPER DECK			588 2ND STREET NET NEW SHADOW ON UPPER DECK		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
8:15 AM	167.17	20.06	100.0%	0.00	0.00	0.0%
8:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
8:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:45 PM	167.17	30.09	100.0%	0.00	0.00	0.0%
3:52 PM	167.17	10.03	100.0%	0.00	0.00	0.0%

DECEMBER 20

Winter solstice (December 21 similar)

Analysis hours: 8:19 AM-3:54 PM (PST)

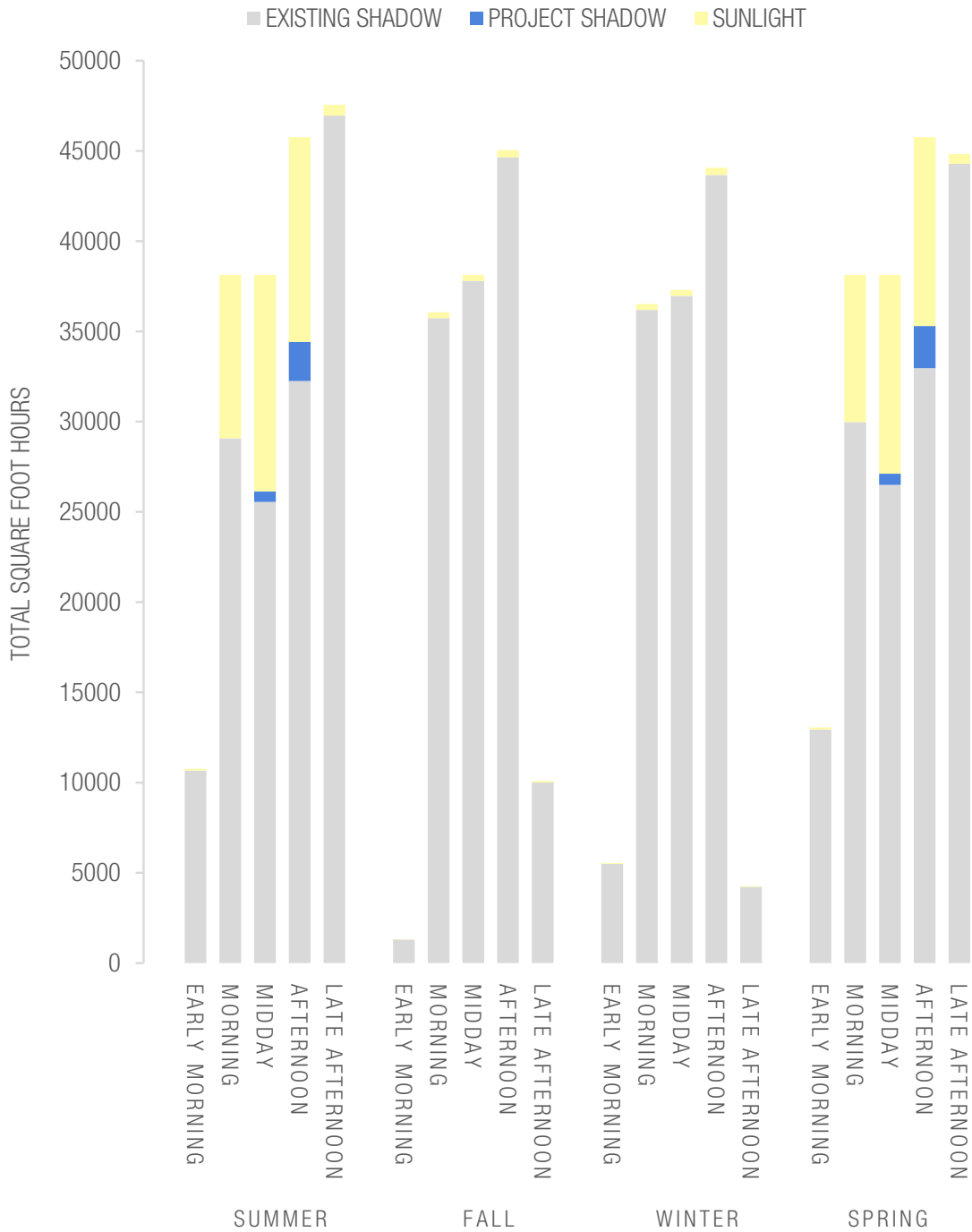
Analysis Time	EXISTING SHADOW ON UPPER DECK			588 2ND STREET NET NEW SHADOW ON UPPER DECK		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
8:19 AM	167.17	13.37	100.0%	0.00	0.00	0.0%
8:30 AM	167.17	35.10	100.0%	0.00	0.00	0.0%
8:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
9:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
10:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:00 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:15 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:30 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
11:45 AM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
12:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
1:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
2:45 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:00 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:15 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:30 PM	167.17	41.79	100.0%	0.00	0.00	0.0%
3:45 PM	167.17	35.10	100.0%	0.00	0.00	0.0%
3:54 PM	167.17	13.37	100.0%	0.00	0.00	0.0%

EXHIBIT C:

QUANTITATIVE ANALYSIS OF NET NEW SHADOW EFFECTS ON LOWER DECK AREA (FAMILY ROOM DECK)

- Chart showing relative amounts of sunlight / existing shadow / net new project shadow
- Summary of quantitative analysis findings
- Full year analysis results

588 2ND STREET: LOWER DECK AREA EXISTING/PROJECT SHADOW VS SUN CHART



THEORETICAL ANNUAL AVAILABLE SUNLIGHT (TAAS) CALCULATION	LOWER DECK AREA
Total plan area of Lower Deck Area	166 sf
Total hours of annual sunlight from 1-hr after sunrise through 1-hr before sunset	3721.4 hrs
Theoretical Annual Available Sunlight (plan area x hours of annual sunlight)	616,971 sfh

EXISTING SHADOW CONDITIONS SUMMARY	LOWER DECK AREA
Total annual existing shadow load (existing shadow sfh ÷ TAAS sfh)	88.75%
Total annual existing shadow in square-foot-hours (sfh)	547,582 sfh
Range in existing shadow area coverage throughout the year	Between 5% - 100%
Time of year / time of day most affected by existing shadow	Winter / Early Morning (before 8:00 AM)

588 2ND STREET NET NEW SHADOW SCENARIO SUMMARY	LOWER DECK AREA
Annual net new project-only shadow load / total existing + project shadow load	0.92% / 89.67%
Annual net new sfh project shadow / total existing + project sfh	5,704 sfh / 553,286 sfh
Number of days annually when new shading from project would occur	Up to 153 days a year
Dates when net new shadow from project would be cast annually	April 6 - September 5
Date(s) with most annual sfh net new project shadow (shadow load / net new sfh)	August 23 & April 19
Time of year / time of day most affected by project net new shadow overall	Spring / Afternoon (1:00-4:00 PM)
Date(s) with largest shadow area from the project (area and time shadow occurs)	Aug 23/Apr 19 (36 sf @ 1:15 PM)
Range in project net new shadow percentage coverage (area range)	Between 0% - 22% (0 - 36 sf)
Average project net new shadow coverage on affected dates (shadow area)	8.93% (15 sf)
Date(s) with the longest duration of net new shadow (duration)	Aug 2/May 10 (3 hr 30 min +/- 14 min)
Range in daily project net new shadow duration (margin of error)	Between zero minutes up to 3 hr 30 min (+/- 14 min)
Average daily project net new shadow duration on affected dates	2 hr 37 min

JUNE 21

Summer solstice

Analysis hours: 6:46 AM-7:36 PM (PDT)

Analysis Time	EXISTING SHADOW ON LOWER DECK AREA			588 2ND STREET NET NEW SHADOW ON LOWER DECK AREA		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
6:46 AM	165.79	18.24	100.0%	0.00	0.00	0.0%
7:00 AM	165.79	38.13	100.0%	0.00	0.00	0.0%
7:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
7:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
7:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:45 AM	132.05	33.01	79.6%	0.00	0.00	0.0%
9:00 AM	68.22	17.05	41.1%	0.00	0.00	0.0%
9:15 AM	8.59	2.15	5.2%	0.00	0.00	0.0%
9:30 AM	15.46	3.86	9.3%	0.00	0.00	0.0%
9:45 AM	32.64	8.16	19.7%	0.00	0.00	0.0%
10:00 AM	47.04	11.76	28.4%	0.00	0.00	0.0%
10:15 AM	60.08	15.02	36.2%	0.00	0.00	0.0%
10:30 AM	69.40	17.35	41.9%	0.00	0.00	0.0%
10:45 AM	75.30	18.82	45.4%	0.00	0.00	0.0%
11:00 AM	72.11	18.03	43.5%	0.00	0.00	0.0%
11:15 AM	68.86	17.22	41.5%	0.00	0.00	0.0%
11:30 AM	62.24	15.56	37.5%	0.00	0.00	0.0%
11:45 AM	56.30	14.07	34.0%	0.00	0.00	0.0%
12:00 PM	47.78	11.95	28.8%	0.00	0.00	0.0%
12:15 PM	42.29	10.57	25.5%	0.00	0.00	0.0%
12:30 PM	41.98	10.49	25.3%	0.00	0.00	0.0%
12:45 PM	43.39	10.85	26.2%	1.50	0.38	0.9%
1:00 PM	42.33	10.58	25.5%	0.00	0.00	0.0%
1:15 PM	44.92	11.23	27.1%	1.65	0.41	1.0%
1:30 PM	51.47	12.87	31.0%	0.00	0.00	0.0%
1:45 PM	59.69	14.92	36.0%	0.00	0.00	0.0%
2:00 PM	66.58	16.64	40.2%	0.00	0.00	0.0%
2:15 PM	74.77	18.69	45.1%	0.00	0.00	0.0%
2:30 PM	82.42	20.60	49.7%	0.00	0.00	0.0%
2:45 PM	91.16	22.79	55.0%	0.00	0.00	0.0%
3:00 PM	101.45	25.36	61.2%	0.00	0.00	0.0%
3:15 PM	116.03	29.01	70.0%	0.00	0.00	0.0%
3:30 PM	131.21	32.80	79.1%	0.00	0.00	0.0%
3:45 PM	147.05	36.76	88.7%	0.00	0.00	0.0%
4:00 PM	155.15	38.79	93.6%	0.00	0.00	0.0%
4:15 PM	159.27	39.82	96.1%	0.00	0.00	0.0%
4:30 PM	161.53	40.38	97.4%	0.00	0.00	0.0%
4:45 PM	163.03	40.76	98.3%	0.00	0.00	0.0%
5:00 PM	165.67	41.42	99.9%	0.00	0.00	0.0%
5:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
7:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
7:15 PM	165.79	49.74	100.0%	0.00	0.00	0.0%
7:36 PM	165.79	29.84	100.0%	0.00	0.00	0.0%

JUNE 28

Mirror date: June 14
 Analysis hours: 6:48 AM-7:36 PM (PDT)

Analysis Time	EXISTING SHADOW ON LOWER DECK AREA			588 2ND STREET NET NEW SHADOW ON LOWER DECK AREA		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
6:48 AM	165.79	16.58	100.0%	0.00	0.00	0.0%
7:00 AM	165.79	36.47	100.0%	0.00	0.00	0.0%
7:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
7:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
7:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:45 AM	140.49	35.12	84.7%	0.00	0.00	0.0%
9:00 AM	75.90	18.97	45.8%	0.00	0.00	0.0%
9:15 AM	15.47	3.87	9.3%	0.00	0.00	0.0%
9:30 AM	15.17	3.79	9.2%	0.00	0.00	0.0%
9:45 AM	32.50	8.13	19.6%	0.00	0.00	0.0%
10:00 AM	47.14	11.78	28.4%	0.00	0.00	0.0%
10:15 AM	60.44	15.11	36.5%	0.00	0.00	0.0%
10:30 AM	69.89	17.47	42.2%	0.00	0.00	0.0%
10:45 AM	76.94	19.24	46.4%	0.00	0.00	0.0%
11:00 AM	73.76	18.44	44.5%	0.00	0.00	0.0%
11:15 AM	70.52	17.63	42.5%	0.00	0.00	0.0%
11:30 AM	63.86	15.97	38.5%	0.00	0.00	0.0%
11:45 AM	57.87	14.47	34.9%	0.00	0.00	0.0%
12:00 PM	49.27	12.32	29.7%	0.00	0.00	0.0%
12:15 PM	42.72	10.68	25.8%	0.00	0.00	0.0%
12:30 PM	42.42	10.60	25.6%	0.00	0.00	0.0%
12:45 PM	43.87	10.97	26.5%	2.14	0.53	1.3%
1:00 PM	42.84	10.71	25.8%	0.00	0.00	0.0%
1:15 PM	44.66	11.16	26.9%	2.70	0.68	1.6%
1:30 PM	51.15	12.79	30.8%	0.00	0.00	0.0%
1:45 PM	59.40	14.85	35.8%	0.00	0.00	0.0%
2:00 PM	66.28	16.57	40.0%	0.00	0.00	0.0%
2:15 PM	74.38	18.59	44.9%	0.00	0.00	0.0%
2:30 PM	81.99	20.50	49.5%	0.00	0.00	0.0%
2:45 PM	90.66	22.66	54.7%	0.00	0.00	0.0%
3:00 PM	100.54	25.14	60.6%	0.00	0.00	0.0%
3:15 PM	114.86	28.72	69.3%	0.00	0.00	0.0%
3:30 PM	130.10	32.53	78.5%	0.00	0.00	0.0%
3:45 PM	146.08	36.52	88.1%	0.00	0.00	0.0%
4:00 PM	155.03	38.76	93.5%	0.00	0.00	0.0%
4:15 PM	159.26	39.81	96.1%	0.00	0.00	0.0%
4:30 PM	161.63	40.41	97.5%	0.00	0.00	0.0%
4:45 PM	162.90	40.72	98.3%	0.00	0.00	0.0%
5:00 PM	165.56	41.39	99.9%	0.00	0.00	0.0%
5:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
7:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
7:15 PM	165.79	49.74	100.0%	0.00	0.00	0.0%
7:36 PM	165.79	29.84	100.0%	0.00	0.00	0.0%

JULY 5

Mirror date: June 7
 Analysis hours: 6:52 AM-7:36 PM (PDT)

Analysis Time	EXISTING SHADOW ON LOWER DECK AREA			588 2ND STREET NET NEW SHADOW ON LOWER DECK AREA		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
6:52 AM	165.79	9.95	100.0%	0.00	0.00	0.0%
7:00 AM	165.79	31.50	100.0%	0.00	0.00	0.0%
7:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
7:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
7:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:45 AM	152.43	38.11	91.9%	0.00	0.00	0.0%
9:00 AM	86.28	21.57	52.0%	0.00	0.00	0.0%
9:15 AM	25.15	6.29	15.2%	0.00	0.00	0.0%
9:30 AM	17.99	4.50	10.8%	0.00	0.00	0.0%
9:45 AM	35.61	8.90	21.5%	0.00	0.00	0.0%
10:00 AM	50.50	12.63	30.5%	0.00	0.00	0.0%
10:15 AM	64.07	16.02	38.6%	0.00	0.00	0.0%
10:30 AM	73.60	18.40	44.4%	0.00	0.00	0.0%
10:45 AM	81.88	20.47	49.4%	0.00	0.00	0.0%
11:00 AM	78.31	19.58	47.2%	0.00	0.00	0.0%
11:15 AM	74.62	18.65	45.0%	0.00	0.00	0.0%
11:30 AM	67.55	16.89	40.7%	0.00	0.00	0.0%
11:45 AM	61.17	15.29	36.9%	0.00	0.00	0.0%
12:00 PM	52.20	13.05	31.5%	0.00	0.00	0.0%
12:15 PM	44.23	11.06	26.7%	1.35	0.34	0.8%
12:30 PM	43.97	10.99	26.5%	1.64	0.41	1.0%
12:45 PM	45.40	11.35	27.4%	4.22	1.06	2.5%
1:00 PM	44.41	11.10	26.8%	3.46	0.86	2.1%
1:15 PM	45.66	11.41	27.5%	5.81	1.45	3.5%
1:30 PM	51.99	13.00	31.4%	2.61	0.65	1.6%
1:45 PM	60.15	15.04	36.3%	3.06	0.76	1.8%
2:00 PM	66.88	16.72	40.3%	0.00	0.00	0.0%
2:15 PM	74.92	18.73	45.2%	0.00	0.00	0.0%
2:30 PM	82.35	20.59	49.7%	0.00	0.00	0.0%
2:45 PM	90.86	22.72	54.8%	0.00	0.00	0.0%
3:00 PM	100.51	25.13	60.6%	0.00	0.00	0.0%
3:15 PM	114.76	28.69	69.2%	0.00	0.00	0.0%
3:30 PM	130.12	32.53	78.5%	0.00	0.00	0.0%
3:45 PM	146.22	36.55	88.2%	0.00	0.00	0.0%
4:00 PM	155.69	38.92	93.9%	0.00	0.00	0.0%
4:15 PM	159.92	39.98	96.5%	0.00	0.00	0.0%
4:30 PM	162.28	40.57	97.9%	0.00	0.00	0.0%
4:45 PM	163.61	40.90	98.7%	0.00	0.00	0.0%
5:00 PM	165.40	41.35	99.8%	0.00	0.00	0.0%
5:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
7:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
7:15 PM	165.79	49.74	100.0%	0.00	0.00	0.0%
7:36 PM	165.79	29.84	100.0%	0.00	0.00	0.0%

JULY 12

Mirror date: May 31
 Analysis hours: 6:56 AM-7:33 PM (PDT)

Analysis Time	EXISTING SHADOW ON LOWER DECK AREA			588 2ND STREET NET NEW SHADOW ON LOWER DECK AREA		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
6:56 AM	165.79	4.97	100.0%	0.00	0.00	0.0%
7:00 AM	165.79	24.87	100.0%	0.00	0.00	0.0%
7:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
7:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
7:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:00 AM	99.61	24.90	60.1%	0.00	0.00	0.0%
9:15 AM	41.90	10.47	25.3%	0.00	0.00	0.0%
9:30 AM	23.92	5.98	14.4%	0.00	0.00	0.0%
9:45 AM	41.94	10.49	25.3%	0.00	0.00	0.0%
10:00 AM	57.17	14.29	34.5%	0.00	0.00	0.0%
10:15 AM	71.02	17.76	42.8%	0.00	0.00	0.0%
10:30 AM	80.56	20.14	48.6%	0.00	0.00	0.0%
10:45 AM	90.15	22.54	54.4%	0.00	0.00	0.0%
11:00 AM	85.85	21.46	51.8%	0.00	0.00	0.0%
11:15 AM	81.39	20.35	49.1%	0.00	0.00	0.0%
11:30 AM	73.50	18.38	44.3%	0.00	0.00	0.0%
11:45 AM	66.41	16.60	40.1%	0.00	0.00	0.0%
12:00 PM	56.60	14.15	34.1%	0.00	0.00	0.0%
12:15 PM	47.87	11.97	28.9%	3.22	0.81	1.9%
12:30 PM	46.59	11.65	28.1%	4.37	1.09	2.6%
12:45 PM	47.97	11.99	28.9%	7.73	1.93	4.7%
1:00 PM	47.05	11.76	28.4%	7.91	1.98	4.8%
1:15 PM	47.91	11.98	28.9%	11.00	2.75	6.6%
1:30 PM	53.97	13.49	32.6%	7.69	1.92	4.6%
1:45 PM	61.92	15.48	37.3%	7.91	1.98	4.8%
2:00 PM	68.56	17.14	41.4%	3.92	0.98	2.4%
2:15 PM	76.42	19.11	46.1%	3.04	0.76	1.8%
2:30 PM	83.72	20.93	50.5%	0.00	0.00	0.0%
2:45 PM	92.06	23.01	55.5%	0.00	0.00	0.0%
3:00 PM	101.42	25.35	61.2%	0.00	0.00	0.0%
3:15 PM	115.60	28.90	69.7%	0.00	0.00	0.0%
3:30 PM	131.17	32.79	79.1%	0.00	0.00	0.0%
3:45 PM	147.58	36.90	89.0%	0.00	0.00	0.0%
4:00 PM	157.12	39.28	94.8%	0.00	0.00	0.0%
4:15 PM	161.17	40.29	97.2%	0.00	0.00	0.0%
4:30 PM	163.38	40.84	98.5%	0.00	0.00	0.0%
4:45 PM	164.61	41.15	99.3%	0.00	0.00	0.0%
5:00 PM	165.20	41.30	99.6%	0.00	0.00	0.0%
5:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
7:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
7:15 PM	165.79	46.42	100.0%	0.00	0.00	0.0%
7:33 PM	165.79	24.87	100.0%	0.00	0.00	0.0%

JULY 19

Mirror date: May 24
 Analysis hours: 7:01 AM-7:30 PM (PDT)

Analysis Time	EXISTING SHADOW ON LOWER DECK AREA			588 2ND STREET NET NEW SHADOW ON LOWER DECK AREA		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:01 AM	165.79	21.55	100.0%	0.00	0.00	0.0%
7:16 AM	165.79	39.79	100.0%	0.00	0.00	0.0%
7:30 AM	165.79	39.79	100.0%	0.00	0.00	0.0%
7:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:00 AM	115.16	28.79	69.5%	0.00	0.00	0.0%
9:15 AM	62.01	15.50	37.4%	0.00	0.00	0.0%
9:30 AM	33.08	8.27	20.0%	0.00	0.00	0.0%
9:45 AM	51.63	12.91	31.1%	0.00	0.00	0.0%
10:00 AM	67.26	16.81	40.6%	0.00	0.00	0.0%
10:15 AM	81.46	20.36	49.1%	0.00	0.00	0.0%
10:30 AM	90.95	22.74	54.9%	0.00	0.00	0.0%
10:45 AM	100.33	25.08	60.5%	0.00	0.00	0.0%
11:00 AM	96.58	24.14	58.3%	0.00	0.00	0.0%
11:15 AM	90.81	22.70	54.8%	0.00	0.00	0.0%
11:30 AM	81.63	20.41	49.2%	0.00	0.00	0.0%
11:45 AM	73.38	18.34	44.3%	0.00	0.00	0.0%
12:00 PM	62.52	15.63	37.7%	2.25	0.56	1.4%
12:15 PM	52.73	13.18	31.8%	5.79	1.45	3.5%
12:30 PM	50.28	12.57	30.3%	8.22	2.05	5.0%
12:45 PM	51.63	12.91	31.1%	12.71	3.18	7.7%
1:00 PM	50.74	12.68	30.6%	14.07	3.52	8.5%
1:15 PM	51.54	12.89	31.1%	18.16	4.54	11.0%
1:30 PM	57.11	14.28	34.4%	14.72	3.68	8.9%
1:45 PM	64.91	16.23	39.2%	14.40	3.60	8.7%
2:00 PM	71.33	17.83	43.0%	10.25	2.56	6.2%
2:15 PM	78.98	19.74	47.6%	9.06	2.26	5.5%
2:30 PM	86.01	21.50	51.9%	4.82	1.20	2.9%
2:45 PM	94.12	23.53	56.8%	2.47	0.62	1.5%
3:00 PM	103.42	25.85	62.4%	0.00	0.00	0.0%
3:15 PM	117.72	29.43	71.0%	0.00	0.00	0.0%
3:30 PM	133.71	33.43	80.6%	0.00	0.00	0.0%
3:45 PM	150.50	37.63	90.8%	0.00	0.00	0.0%
4:00 PM	159.10	39.78	96.0%	0.00	0.00	0.0%
4:15 PM	162.82	40.70	98.2%	0.00	0.00	0.0%
4:30 PM	164.60	41.15	99.3%	0.00	0.00	0.0%
4:45 PM	165.45	41.36	99.8%	0.00	0.00	0.0%
5:00 PM	165.66	41.41	99.9%	0.00	0.00	0.0%
5:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
7:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
7:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
7:30 PM	165.79	21.55	100.0%	0.00	0.00	0.0%

JULY 26

Mirror date: May 17

Analysis hours: 7:07 AM-7:25 PM (PDT)

Analysis Time	EXISTING SHADOW ON LOWER DECK AREA			588 2ND STREET NET NEW SHADOW ON LOWER DECK AREA		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:07 AM	165.79	9.95	100.0%	0.00	0.00	0.0%
7:15 AM	165.79	31.50	100.0%	0.00	0.00	0.0%
7:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
7:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:00 AM	136.45	34.11	82.3%	0.00	0.00	0.0%
9:15 AM	84.40	21.10	50.9%	0.00	0.00	0.0%
9:30 AM	51.67	12.92	31.2%	0.00	0.00	0.0%
9:45 AM	64.44	16.11	38.9%	0.00	0.00	0.0%
10:00 AM	80.60	20.15	48.6%	0.00	0.00	0.0%
10:15 AM	95.23	23.81	57.4%	0.00	0.00	0.0%
10:30 AM	104.65	26.16	63.1%	0.00	0.00	0.0%
10:45 AM	113.74	28.43	68.6%	0.00	0.00	0.0%
11:00 AM	110.66	27.66	66.7%	0.00	0.00	0.0%
11:15 AM	103.07	25.77	62.2%	0.00	0.00	0.0%
11:30 AM	92.14	23.03	55.6%	0.00	0.00	0.0%
11:45 AM	82.33	20.58	49.7%	0.00	0.00	0.0%
12:00 PM	69.97	17.49	42.2%	4.03	1.01	2.4%
12:15 PM	58.72	14.68	35.4%	9.34	2.34	5.6%
12:30 PM	55.06	13.76	33.2%	13.25	3.31	8.0%
12:45 PM	57.10	14.27	34.4%	18.57	4.64	11.2%
1:00 PM	55.45	13.86	33.4%	22.05	5.51	13.3%
1:15 PM	56.85	14.21	34.3%	26.79	6.70	16.2%
1:30 PM	61.44	15.36	37.1%	23.65	5.91	14.3%
1:45 PM	68.99	17.25	41.6%	22.72	5.68	13.7%
2:00 PM	75.14	18.78	45.3%	18.17	4.54	11.0%
2:15 PM	82.53	20.63	49.8%	16.41	4.10	9.9%
2:30 PM	89.28	22.32	53.8%	11.81	2.95	7.1%
2:45 PM	97.13	24.28	58.6%	8.70	2.18	5.2%
3:00 PM	106.45	26.61	64.2%	3.43	0.86	2.1%
3:15 PM	121.06	30.26	73.0%	0.00	0.00	0.0%
3:30 PM	137.49	34.37	82.9%	0.00	0.00	0.0%
3:45 PM	154.97	38.74	93.5%	0.00	0.00	0.0%
4:00 PM	161.47	40.37	97.4%	0.00	0.00	0.0%
4:15 PM	164.40	41.10	99.2%	0.00	0.00	0.0%
4:30 PM	165.60	41.40	99.9%	0.00	0.00	0.0%
4:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
7:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
7:15 PM	165.79	34.82	100.0%	0.00	0.00	0.0%
7:25 PM	165.79	14.92	100.0%	0.00	0.00	0.0%

AUGUST 2

Mirror date: May 10
 Analysis hours: 7:12 AM-7:18 PM (PDT)

Analysis Time	EXISTING SHADOW ON LOWER DECK AREA			588 2ND STREET NET NEW SHADOW ON LOWER DECK AREA		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:12 AM	165.79	3.32	100.0%	0.00	0.00	0.0%
7:15 AM	165.79	24.87	100.0%	0.00	0.00	0.0%
7:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
7:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:00 AM	157.88	39.47	95.2%	0.00	0.00	0.0%
9:15 AM	107.02	26.76	64.6%	0.00	0.00	0.0%
9:30 AM	76.10	19.02	45.9%	0.00	0.00	0.0%
9:45 AM	80.40	20.10	48.5%	0.00	0.00	0.0%
10:00 AM	97.26	24.32	58.7%	0.00	0.00	0.0%
10:15 AM	112.47	28.12	67.8%	0.00	0.00	0.0%
10:30 AM	121.90	30.47	73.5%	0.00	0.00	0.0%
10:45 AM	130.57	32.64	78.8%	0.00	0.00	0.0%
11:00 AM	128.15	32.04	77.3%	0.00	0.00	0.0%
11:15 AM	118.18	29.55	71.3%	0.00	0.00	0.0%
11:30 AM	105.83	26.46	63.8%	0.00	0.00	0.0%
11:45 AM	96.20	24.05	58.0%	0.00	0.00	0.0%
12:00 PM	83.21	20.80	50.2%	5.21	1.30	3.1%
12:15 PM	73.42	18.36	44.3%	10.44	2.61	6.3%
12:30 PM	68.54	17.14	41.3%	15.17	3.79	9.2%
12:45 PM	71.44	17.86	43.1%	20.44	5.11	12.3%
1:00 PM	69.32	17.33	41.8%	24.87	6.22	15.0%
1:15 PM	71.05	17.76	42.9%	29.51	7.38	17.8%
1:30 PM	73.91	18.48	44.6%	27.42	6.86	16.5%
1:45 PM	81.00	20.25	48.9%	25.82	6.45	15.6%
2:00 PM	84.10	21.02	50.7%	23.45	5.86	14.1%
2:15 PM	90.50	22.63	54.6%	21.67	5.42	13.1%
2:30 PM	94.10	23.53	56.8%	19.35	4.84	11.7%
2:45 PM	101.13	25.28	61.0%	16.09	4.02	9.7%
3:00 PM	110.73	27.68	66.8%	8.67	2.17	5.2%
3:15 PM	125.94	31.49	76.0%	3.65	0.91	2.2%
3:30 PM	143.12	35.78	86.3%	0.00	0.00	0.0%
3:45 PM	159.65	39.91	96.3%	0.00	0.00	0.0%
4:00 PM	163.77	40.94	98.8%	0.00	0.00	0.0%
4:15 PM	165.60	41.40	99.9%	0.00	0.00	0.0%
4:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
7:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
7:15 PM	165.79	24.87	100.0%	0.00	0.00	0.0%
7:18 PM	165.79	4.97	100.0%	0.00	0.00	0.0%

AUGUST 9

Mirror date: May 3

Analysis hours: 7:19 AM-7:10 PM (PDT)

Analysis Time	EXISTING SHADOW ON LOWER DECK AREA			588 2ND STREET NET NEW SHADOW ON LOWER DECK AREA		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:19 AM	165.79	14.92	100.0%	0.00	0.00	0.0%
7:30 AM	165.79	34.82	100.0%	0.00	0.00	0.0%
7:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:15 AM	128.44	32.11	77.5%	0.00	0.00	0.0%
9:30 AM	100.89	25.22	60.9%	0.00	0.00	0.0%
9:45 AM	99.05	24.76	59.7%	0.00	0.00	0.0%
10:00 AM	117.10	29.27	70.6%	0.00	0.00	0.0%
10:15 AM	132.98	33.24	80.2%	0.00	0.00	0.0%
10:30 AM	142.53	35.63	86.0%	0.00	0.00	0.0%
10:45 AM	150.57	37.64	90.8%	0.00	0.00	0.0%
11:00 AM	149.56	37.39	90.2%	0.00	0.00	0.0%
11:15 AM	139.03	34.76	83.9%	0.00	0.00	0.0%
11:30 AM	125.74	31.43	75.8%	0.00	0.00	0.0%
11:45 AM	114.40	28.60	69.0%	0.00	0.00	0.0%
12:00 PM	100.99	25.25	60.9%	5.46	1.36	3.3%
12:15 PM	90.89	22.72	54.8%	11.40	2.85	6.9%
12:30 PM	85.81	21.45	51.8%	16.81	4.20	10.1%
12:45 PM	88.45	22.11	53.4%	22.65	5.66	13.7%
1:00 PM	86.31	21.58	52.1%	27.72	6.93	16.7%
1:15 PM	87.86	21.97	53.0%	32.58	8.15	19.7%
1:30 PM	90.19	22.55	54.4%	30.09	7.52	18.1%
1:45 PM	96.24	24.06	58.1%	28.10	7.03	17.0%
2:00 PM	98.51	24.63	59.4%	25.46	6.36	15.4%
2:15 PM	103.97	25.99	62.7%	23.37	5.84	14.1%
2:30 PM	106.76	26.69	64.4%	20.76	5.19	12.5%
2:45 PM	112.24	28.06	67.7%	17.72	4.43	10.7%
3:00 PM	119.05	29.76	71.8%	11.68	2.92	7.0%
3:15 PM	133.27	33.32	80.4%	5.90	1.47	3.6%
3:30 PM	150.46	37.61	90.8%	0.00	0.00	0.0%
3:45 PM	162.88	40.72	98.2%	0.00	0.00	0.0%
4:00 PM	165.42	41.36	99.8%	0.00	0.00	0.0%
4:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:45 PM	165.79	56.37	100.0%	0.00	0.00	0.0%
7:10 PM	165.79	34.82	100.0%	0.00	0.00	0.0%

AUGUST 16

Mirror date: April 26
 Analysis hours: 7:25 AM-7:02 PM (PDT)

Analysis Time	EXISTING SHADOW ON LOWER DECK AREA			588 2ND STREET NET NEW SHADOW ON LOWER DECK AREA		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:25 AM	165.79	6.63	100.0%	0.00	0.00	0.0%
7:30 AM	165.79	28.18	100.0%	0.00	0.00	0.0%
7:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:15 AM	147.14	36.78	88.8%	0.00	0.00	0.0%
9:30 AM	124.69	31.17	75.2%	0.00	0.00	0.0%
9:45 AM	120.03	30.01	72.4%	0.00	0.00	0.0%
10:00 AM	139.58	34.89	84.2%	0.00	0.00	0.0%
10:15 AM	156.47	39.12	94.4%	0.00	0.00	0.0%
10:30 AM	165.56	41.39	99.9%	0.00	0.00	0.0%
10:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:00 AM	163.25	40.81	98.5%	0.00	0.00	0.0%
11:15 AM	149.61	37.40	90.2%	0.00	0.00	0.0%
11:30 AM	137.44	34.36	82.9%	0.00	0.00	0.0%
11:45 AM	127.90	31.98	77.1%	0.00	0.00	0.0%
12:00 PM	117.35	29.34	70.8%	5.85	1.46	3.5%
12:15 PM	109.94	27.48	66.3%	12.58	3.15	7.6%
12:30 PM	105.58	26.39	63.7%	18.83	4.71	11.4%
12:45 PM	107.93	26.98	65.1%	25.44	6.36	15.3%
1:00 PM	105.74	26.43	63.8%	31.24	7.81	18.8%
1:15 PM	107.46	26.86	64.8%	36.01	9.00	21.7%
1:30 PM	108.74	27.19	65.6%	32.97	8.24	19.9%
1:45 PM	113.47	28.37	68.4%	30.61	7.65	18.5%
2:00 PM	114.72	28.68	69.2%	27.58	6.90	16.6%
2:15 PM	119.02	29.76	71.8%	25.06	6.26	15.1%
2:30 PM	120.78	30.20	72.9%	22.10	5.53	13.3%
2:45 PM	125.20	31.30	75.5%	18.38	4.60	11.1%
3:00 PM	131.06	32.77	79.1%	11.49	2.87	6.9%
3:15 PM	144.25	36.06	87.0%	4.77	1.19	2.9%
3:30 PM	160.08	40.02	96.6%	0.00	0.00	0.0%
3:45 PM	165.19	41.30	99.6%	0.00	0.00	0.0%
4:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:45 PM	165.79	44.76	100.0%	0.00	0.00	0.0%
7:02 PM	165.79	23.21	100.0%	0.00	0.00	0.0%

AUGUST 23

Mirror date: April 19
 Analysis hours: 7:31 AM-6:52 PM (PDT)

Analysis Time	EXISTING SHADOW ON LOWER DECK AREA			588 2ND STREET NET NEW SHADOW ON LOWER DECK AREA		
	Shadow Area (sf)	Area/Time (sfn)	Coverage	Shadow Area (sf)	Area/Time (sfn)	Coverage
7:31 AM	165.79	18.24	100.0%	0.00	0.00	0.0%
7:45 AM	165.79	38.13	100.0%	0.00	0.00	0.0%
8:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:15 AM	160.37	40.09	96.7%	0.00	0.00	0.0%
9:30 AM	145.71	36.43	87.9%	0.00	0.00	0.0%
9:45 AM	145.65	36.41	87.8%	0.00	0.00	0.0%
10:00 AM	158.31	39.58	95.5%	0.00	0.00	0.0%
10:15 AM	165.30	41.32	99.7%	0.00	0.00	0.0%
10:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:00 AM	165.35	41.34	99.7%	0.00	0.00	0.0%
11:15 AM	156.29	39.07	94.3%	0.00	0.00	0.0%
11:30 AM	148.19	37.05	89.4%	0.00	0.00	0.0%
11:45 AM	142.42	35.61	85.9%	0.00	0.00	0.0%
12:00 PM	135.31	33.83	81.6%	6.33	1.58	3.8%
12:15 PM	131.24	32.81	79.2%	12.97	3.24	7.8%
12:30 PM	127.96	31.99	77.2%	20.17	5.04	12.2%
12:45 PM	130.00	32.50	78.4%	25.60	6.40	15.4%
1:00 PM	127.70	31.93	77.0%	33.83	8.46	20.4%
1:15 PM	129.51	32.38	78.1%	36.28	9.07	21.9%
1:30 PM	129.32	32.33	78.0%	35.95	8.99	21.7%
1:45 PM	132.55	33.14	79.9%	33.12	8.28	20.0%
2:00 PM	132.48	33.12	79.9%	29.60	7.40	17.9%
2:15 PM	135.38	33.84	81.7%	26.59	6.65	16.0%
2:30 PM	135.91	33.98	82.0%	23.12	5.78	13.9%
2:45 PM	138.94	34.74	83.8%	18.49	4.62	11.2%
3:00 PM	143.89	35.97	86.8%	10.51	2.63	6.3%
3:15 PM	154.67	38.67	93.3%	2.87	0.72	1.7%
3:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:45 PM	165.79	31.50	100.0%	0.00	0.00	0.0%
6:52 PM	165.79	9.95	100.0%	0.00	0.00	0.0%

AUGUST 30

Mirror date: April 12
 Analysis hours: 7:37 AM-6:42 PM (PDT)

Analysis Time	EXISTING SHADOW ON LOWER DECK AREA			588 2ND STREET NET NEW SHADOW ON LOWER DECK AREA		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:37 AM	165.79	9.95	100.0%	0.00	0.00	0.0%
7:45 AM	165.79	31.50	100.0%	0.00	0.00	0.0%
8:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:30 AM	162.28	40.57	97.9%	0.00	0.00	0.0%
9:45 AM	162.13	40.53	97.8%	0.00	0.00	0.0%
10:00 AM	164.91	41.23	99.5%	0.00	0.00	0.0%
10:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:15 AM	162.56	40.64	98.1%	0.00	0.00	0.0%
11:30 AM	159.38	39.85	96.1%	0.00	0.00	0.0%
11:45 AM	158.12	39.53	95.4%	0.00	0.00	0.0%
12:00 PM	155.13	38.78	93.6%	2.89	0.72	1.7%
12:15 PM	155.01	38.75	93.5%	4.49	1.12	2.7%
12:30 PM	152.75	38.19	92.1%	7.44	1.86	4.5%
12:45 PM	154.49	38.62	93.2%	8.42	2.11	5.1%
1:00 PM	152.06	38.01	91.7%	12.58	3.14	7.6%
1:15 PM	153.40	38.35	92.5%	12.40	3.10	7.5%
1:30 PM	151.58	37.89	91.4%	14.22	3.55	8.6%
1:45 PM	153.07	38.27	92.3%	12.72	3.18	7.7%
2:00 PM	151.47	37.87	91.4%	14.33	3.58	8.6%
2:15 PM	152.65	38.16	92.1%	13.15	3.29	7.9%
2:30 PM	151.63	37.91	91.5%	14.16	3.54	8.5%
2:45 PM	152.99	38.25	92.3%	12.13	3.03	7.3%
3:00 PM	156.07	39.02	94.1%	7.49	1.87	4.5%
3:15 PM	162.40	40.60	98.0%	1.03	0.26	0.6%
3:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:30 PM	165.79	38.13	100.0%	0.00	0.00	0.0%
6:42 PM	165.79	18.24	100.0%	0.00	0.00	0.0%

SEPTEMBER 6

Mirror date: April 5
 Analysis hours: 7:44 AM-6:31 PM (PDT)

Analysis Time	EXISTING SHADOW ON LOWER DECK AREA			588 2ND STREET NET NEW SHADOW ON LOWER DECK AREA		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:44 AM	165.79	21.55	100.0%	0.00	0.00	0.0%
8:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:00 PM	165.12	41.28	99.6%	0.00	0.00	0.0%
3:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:15 PM	165.79	44.76	100.0%	0.00	0.00	0.0%
6:31 PM	165.79	23.21	100.0%	0.00	0.00	0.0%

SEPTEMBER 13

Mirror date: March 29
 Analysis hours: 7:50 AM-6:21 PM (PDT)

Analysis Time	EXISTING SHADOW ON LOWER DECK AREA			588 2ND STREET NET NEW SHADOW ON LOWER DECK AREA		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:50 AM	165.79	13.26	100.0%	0.00	0.00	0.0%
8:00 AM	165.79	34.82	100.0%	0.00	0.00	0.0%
8:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:15 PM	165.79	29.84	100.0%	0.00	0.00	0.0%
6:21 PM	165.79	8.29	100.0%	0.00	0.00	0.0%

SEPTEMBER 20

Fall equinox (Spring equinox on March 22 similar)

Analysis hours: 7:57 AM-6:09 PM (PDT)

Analysis Time	EXISTING SHADOW ON LOWER DECK AREA			588 2ND STREET NET NEW SHADOW ON LOWER DECK AREA		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:57 AM	165.79	3.32	100.0%	0.00	0.00	0.0%
8:00 AM	165.79	24.87	100.0%	0.00	0.00	0.0%
8:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
6:00 PM	165.79	34.82	100.0%	0.00	0.00	0.0%
6:09 PM	165.79	13.26	100.0%	0.00	0.00	0.0%

SEPTEMBER 27

Mirror date: March 15
 Analysis hours: 8:03 AM-5:58 PM (PDT)

Analysis Time	EXISTING SHADOW ON LOWER DECK AREA			588 2ND STREET NET NEW SHADOW ON LOWER DECK AREA		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
8:03 AM	165.79	16.58	100.0%	0.00	0.00	0.0%
8:15 AM	165.79	36.47	100.0%	0.00	0.00	0.0%
8:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:45 PM	165.79	38.13	100.0%	0.00	0.00	0.0%
5:58 PM	165.79	18.24	100.0%	0.00	0.00	0.0%

OCTOBER 4

Mirror date: March 8
 Analysis hours: 8:09 AM-5:47 PM (PDT)

Analysis Time	EXISTING SHADOW ON LOWER DECK AREA			588 2ND STREET NET NEW SHADOW ON LOWER DECK AREA		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
8:09 AM	165.79	6.63	100.0%	0.00	0.00	0.0%
8:15 AM	165.79	28.18	100.0%	0.00	0.00	0.0%
8:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:30 PM	165.79	44.76	100.0%	0.00	0.00	0.0%
5:47 PM	165.79	23.21	100.0%	0.00	0.00	0.0%

OCTOBER 11

Mirror date: March 1
 Analysis hours: 8:16 AM-5:37 PM (PDT)

Analysis Time	EXISTING SHADOW ON LOWER DECK AREA			588 2ND STREET NET NEW SHADOW ON LOWER DECK AREA		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
8:16 AM	165.79	19.89	100.0%	0.00	0.00	0.0%
8:30 AM	165.79	39.79	100.0%	0.00	0.00	0.0%
8:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:30 PM	165.79	31.50	100.0%	0.00	0.00	0.0%
5:37 PM	165.79	9.95	100.0%	0.00	0.00	0.0%

OCTOBER 18

Mirror date: February 22
 Analysis hours: 8:22 AM-5:27 PM (PDT)

Analysis Time	EXISTING SHADOW ON LOWER DECK AREA			588 2ND STREET NET NEW SHADOW ON LOWER DECK AREA		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
8:22 AM	165.79	9.95	100.0%	0.00	0.00	0.0%
8:30 AM	165.79	29.84	100.0%	0.00	0.00	0.0%
8:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
5:15 PM	165.79	36.47	100.0%	0.00	0.00	0.0%
5:27 PM	165.79	16.58	100.0%	0.00	0.00	0.0%

OCTOBER 25

Mirror date: February 15
 Analysis hours: 7:30 AM-4:18 PM (PST)

Analysis Time	EXISTING SHADOW ON LOWER DECK AREA			588 2ND STREET NET NEW SHADOW ON LOWER DECK AREA		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:30 AM	165.79	21.55	100.0%	0.00	0.00	0.0%
7:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:15 PM	165.79	24.87	100.0%	0.00	0.00	0.0%
4:18 PM	165.79	4.97	100.0%	0.00	0.00	0.0%

NOVEMBER 1

Mirror date: February 8
 Analysis hours: 7:36 AM-4:10 PM (PST)

Analysis Time	EXISTING SHADOW ON LOWER DECK AREA			588 2ND STREET NET NEW SHADOW ON LOWER DECK AREA		
	Shadow Area (sf)	Area/Time (sfn)	Coverage	Shadow Area (sf)	Area/Time (sfn)	Coverage
7:36 AM	165.79	11.61	100.0%	0.00	0.00	0.0%
7:45 AM	165.79	31.50	100.0%	0.00	0.00	0.0%
8:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:00 PM	165.79	34.82	100.0%	0.00	0.00	0.0%
4:10 PM	165.79	14.92	100.0%	0.00	0.00	0.0%

NOVEMBER 8

Mirror date: February 1
 Analysis hours: 7:43 AM-4:03 PM (PST)

Analysis Time	EXISTING SHADOW ON LOWER DECK AREA			588 2ND STREET NET NEW SHADOW ON LOWER DECK AREA		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:43 AM	165.79	1.66	100.0%	0.00	0.00	0.0%
7:45 AM	165.79	21.55	100.0%	0.00	0.00	0.0%
8:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
4:00 PM	165.79	24.87	100.0%	0.00	0.00	0.0%
4:03 PM	165.79	4.97	100.0%	0.00	0.00	0.0%

NOVEMBER 15

Mirror date: January 25
 Analysis hours: 7:51 AM-3:57 PM (PST)

Analysis Time	EXISTING SHADOW ON LOWER DECK AREA			588 2ND STREET NET NEW SHADOW ON LOWER DECK AREA		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:51 AM	165.79	13.26	100.0%	0.00	0.00	0.0%
8:00 AM	165.79	33.16	100.0%	0.00	0.00	0.0%
8:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:45 PM	165.79	38.13	100.0%	0.00	0.00	0.0%
3:57 PM	165.79	18.24	100.0%	0.00	0.00	0.0%

NOVEMBER 22

Mirror date: January 18
 Analysis hours: 7:57 AM-3:54 PM (PST)

Analysis Time	EXISTING SHADOW ON LOWER DECK AREA			588 2ND STREET NET NEW SHADOW ON LOWER DECK AREA		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:57 AM	165.79	3.32	100.0%	0.00	0.00	0.0%
8:00 AM	165.79	24.87	100.0%	0.00	0.00	0.0%
8:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:45 PM	165.79	33.16	100.0%	0.00	0.00	0.0%
3:54 PM	165.79	13.26	100.0%	0.00	0.00	0.0%

NOVEMBER 29

Mirror date: January 11
 Analysis hours: 8:04 AM-3:51 PM (PST)

Analysis Time	EXISTING SHADOW ON LOWER DECK AREA			588 2ND STREET NET NEW SHADOW ON LOWER DECK AREA		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
8:04 AM	165.79	14.92	100.0%	0.00	0.00	0.0%
8:15 AM	165.79	34.82	100.0%	0.00	0.00	0.0%
8:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:45 PM	165.79	29.84	100.0%	0.00	0.00	0.0%
3:51 PM	165.79	8.29	100.0%	0.00	0.00	0.0%

DECEMBER 6

Mirror date: January 4
 Analysis hours: 8:10 AM-3:51 PM (PST)

Analysis Time	EXISTING SHADOW ON LOWER DECK AREA			588 2ND STREET NET NEW SHADOW ON LOWER DECK AREA		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
8:10 AM	165.79	6.63	100.0%	0.00	0.00	0.0%
8:15 AM	165.79	28.18	100.0%	0.00	0.00	0.0%
8:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:45 PM	165.79	28.18	100.0%	0.00	0.00	0.0%
3:51 PM	165.79	8.29	100.0%	0.00	0.00	0.0%

DECEMBER 13

Mirror date: December 28

Analysis hours: 8:15 AM-3:52 PM (PST)

Analysis Time	EXISTING SHADOW ON LOWER DECK AREA			588 2ND STREET NET NEW SHADOW ON LOWER DECK AREA		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
8:15 AM	165.79	19.89	100.0%	0.00	0.00	0.0%
8:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
8:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:45 PM	165.79	29.84	100.0%	0.00	0.00	0.0%
3:52 PM	165.79	9.95	100.0%	0.00	0.00	0.0%

DECEMBER 20

Winter solstice (December 21 similar)

Analysis hours: 8:19 AM-3:54 PM (PST)

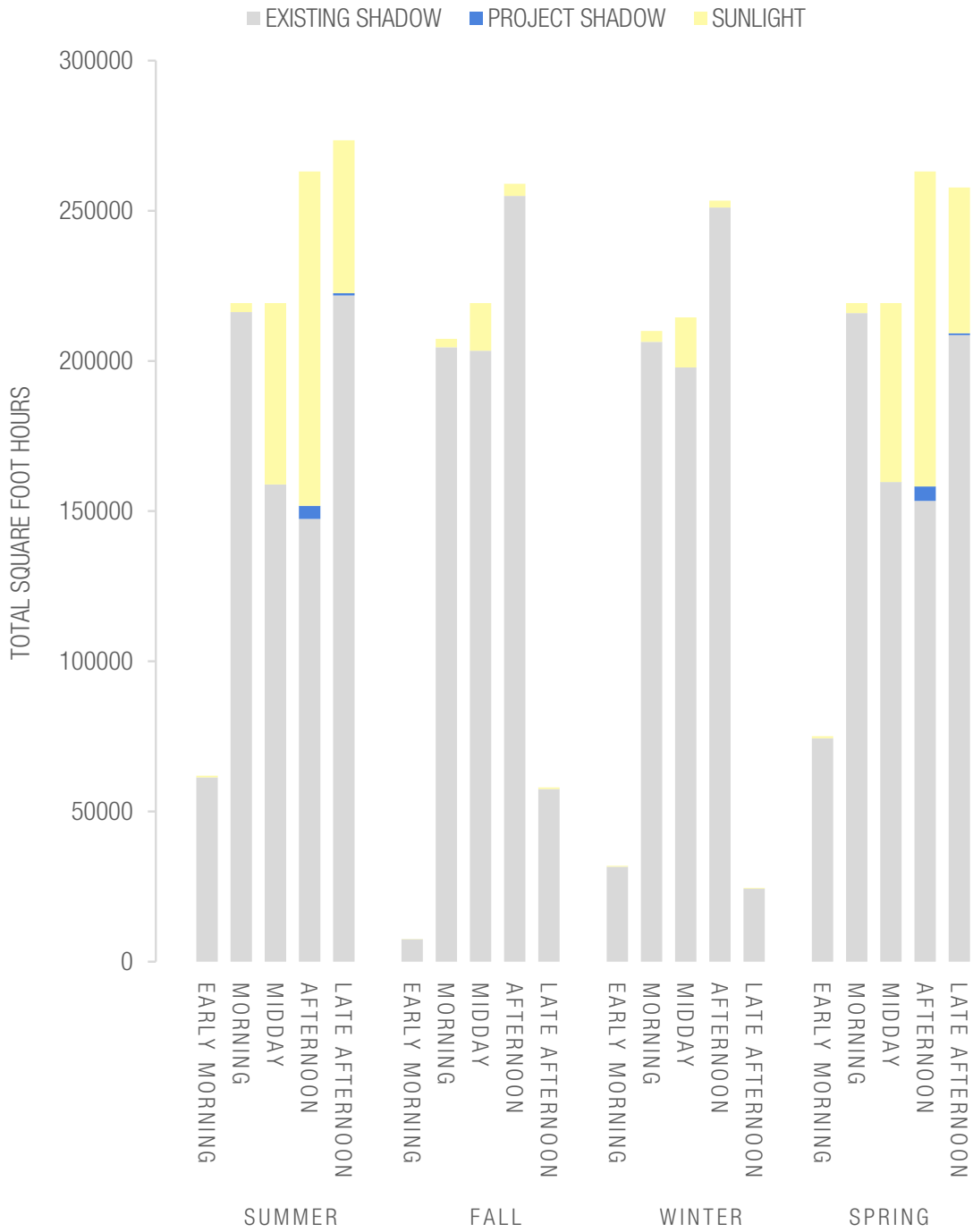
Analysis Time	EXISTING SHADOW ON LOWER DECK AREA			588 2ND STREET NET NEW SHADOW ON LOWER DECK AREA		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
8:19 AM	165.79	13.26	100.0%	0.00	0.00	0.0%
8:30 AM	165.79	34.82	100.0%	0.00	0.00	0.0%
8:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
9:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
10:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:00 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:15 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:30 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
11:45 AM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
12:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
1:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
2:45 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:00 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:15 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:30 PM	165.79	41.45	100.0%	0.00	0.00	0.0%
3:45 PM	165.79	34.82	100.0%	0.00	0.00	0.0%
3:54 PM	165.79	13.26	100.0%	0.00	0.00	0.0%

EXHIBIT D:

QUANTITATIVE ANALYSIS OF NET NEW SHADOW EFFECTS ON REAR YARD AREA

- Chart showing relative amounts of sunlight / existing shadow / net new project shadow
- Summary of quantitative analysis findings
- Full year analysis results

588 2ND STREET: REAR YARD EXISTING/PROJECT SHADOW VS SUN CHART



THEORETICAL ANNUAL AVAILABLE SUNLIGHT (TAAS) CALCULATION	REAR YARD
Total plan area of Rear Yard	0.02 acres (953 sf)
Total hours of annual sunlight from 1-hr after sunrise through 1-hr before sunset	3721.4 hrs
Theoretical Annual Available Sunlight (plan area x hours of annual sunlight)	3,547,462 sfh

EXISTING SHADOW CONDITIONS SUMMARY	REAR YARD
Total annual existing shadow load (existing shadow sfh ÷ TAAS sfh)	85.96%
Total annual existing shadow in square-foot-hours (sfh)	3,049,351 sfh
Range in existing shadow area coverage throughout the year	Between 30% - 100%
Time of year / time of day most affected by existing shadow	Summer / Early Morning (before 8:00 AM)

588 2ND STREET NET NEW SHADOW SCENARIO SUMMARY	REAR YARD
Annual net new project-only shadow load / total existing + project shadow load	0.30% / 86.26%
Annual net new sfh project shadow / total existing + project sfh	10,670 sfh / 3,060,022 sfh
Number of days annually when new shading from project would occur	Up to 180 days a year
Dates when net new shadow from project would be cast annually	3/16 - 6/13 & 6/29 - 9/26
Date(s) with most annual sfh net new project shadow (shadow load / net new sfh)	September 13 & March 29
Time of year / time of day most affected by project net new shadow overall	Spring / Afternoon (1:00-4:00 PM)
Date(s) with largest shadow area from the project (area and time shadow occurs)	Sep 13/Mar 29 (81 sf @ 3:15 PM)
Range in project net new shadow percentage coverage (area range)	Between 0% - 9% (0 - 81 sf)
Average project net new shadow coverage on affected dates (shadow area)	2.79% (27 sf)
Date(s) with the longest duration of net new shadow (duration)	Aug 23/Apr 19 (3 hr 30 min +/- 14 min)
Range in daily project net new shadow duration (margin of error)	Between zero minutes up to 3 hr 30 min (+/- 14 min)
Average daily project net new shadow duration on affected dates	2 hr 29 min

JUNE 21

Summer solstice

Analysis hours: 6:46 AM-7:36 PM (PDT)

Analysis Time	EXISTING SHADOW ON REAR YARD			588 2ND STREET NET NEW SHADOW ON REAR YARD		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
6:46 AM	953.26	104.86	100.0%	0.00	0.00	0.0%
7:00 AM	953.26	219.25	100.0%	0.00	0.00	0.0%
7:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
7:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
7:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:00 AM	919.88	229.97	96.5%	0.00	0.00	0.0%
10:15 AM	843.09	210.77	88.4%	0.00	0.00	0.0%
10:30 AM	774.67	193.67	81.3%	0.00	0.00	0.0%
10:45 AM	717.71	179.43	75.3%	0.00	0.00	0.0%
11:00 AM	666.02	166.51	69.9%	0.00	0.00	0.0%
11:15 AM	620.17	155.04	65.1%	0.00	0.00	0.0%
11:30 AM	573.83	143.46	60.2%	0.00	0.00	0.0%
11:45 AM	534.05	133.51	56.0%	0.00	0.00	0.0%
12:00 PM	490.83	122.71	51.5%	0.00	0.00	0.0%
12:15 PM	455.94	113.98	47.8%	0.00	0.00	0.0%
12:30 PM	409.10	102.28	42.9%	0.00	0.00	0.0%
12:45 PM	363.94	90.99	38.2%	0.00	0.00	0.0%
1:00 PM	307.15	76.79	32.2%	0.00	0.00	0.0%
1:15 PM	288.80	72.20	30.3%	0.00	0.00	0.0%
1:30 PM	298.56	74.64	31.3%	0.00	0.00	0.0%
1:45 PM	319.62	79.90	33.5%	0.00	0.00	0.0%
2:00 PM	326.42	81.60	34.2%	0.00	0.00	0.0%
2:15 PM	343.65	85.91	36.0%	0.00	0.00	0.0%
2:30 PM	352.24	88.06	37.0%	0.00	0.00	0.0%
2:45 PM	363.97	90.99	38.2%	0.00	0.00	0.0%
3:00 PM	355.78	88.94	37.3%	0.00	0.00	0.0%
3:15 PM	354.22	88.56	37.2%	0.00	0.00	0.0%
3:30 PM	348.80	87.20	36.6%	0.00	0.00	0.0%
3:45 PM	347.63	86.91	36.5%	0.00	0.00	0.0%
4:00 PM	352.69	88.17	37.0%	0.00	0.00	0.0%
4:15 PM	367.48	91.87	38.5%	0.00	0.00	0.0%
4:30 PM	387.71	96.93	40.7%	0.00	0.00	0.0%
4:45 PM	423.17	105.79	44.4%	0.00	0.00	0.0%
5:00 PM	515.56	128.89	54.1%	0.00	0.00	0.0%
5:15 PM	621.81	155.45	65.2%	0.00	0.00	0.0%
5:30 PM	740.04	185.01	77.6%	0.00	0.00	0.0%
5:45 PM	840.17	210.04	88.1%	0.00	0.00	0.0%
6:00 PM	917.90	229.48	96.3%	0.00	0.00	0.0%
6:15 PM	944.35	236.09	99.1%	0.00	0.00	0.0%
6:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
6:45 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
7:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
7:15 PM	953.26	285.98	100.0%	0.00	0.00	0.0%
7:36 PM	953.26	171.59	100.0%	0.00	0.00	0.0%

JUNE 28

Mirror date: June 14
 Analysis hours: 6:48 AM-7:36 PM (PDT)

Analysis Time	EXISTING SHADOW ON REAR YARD			588 2ND STREET NET NEW SHADOW ON REAR YARD		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
6:48 AM	953.26	95.33	100.0%	0.00	0.00	0.0%
7:00 AM	953.26	209.72	100.0%	0.00	0.00	0.0%
7:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
7:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
7:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:00 AM	927.42	231.85	97.3%	0.00	0.00	0.0%
10:15 AM	852.69	213.17	89.4%	0.00	0.00	0.0%
10:30 AM	783.22	195.80	82.2%	0.00	0.00	0.0%
10:45 AM	725.38	181.35	76.1%	0.00	0.00	0.0%
11:00 AM	673.40	168.35	70.6%	0.00	0.00	0.0%
11:15 AM	627.23	156.81	65.8%	0.00	0.00	0.0%
11:30 AM	580.81	145.20	60.9%	0.00	0.00	0.0%
11:45 AM	540.92	135.23	56.7%	0.00	0.00	0.0%
12:00 PM	497.66	124.41	52.2%	0.00	0.00	0.0%
12:15 PM	462.81	115.70	48.6%	0.00	0.00	0.0%
12:30 PM	417.28	104.32	43.8%	0.00	0.00	0.0%
12:45 PM	372.08	93.02	39.0%	0.00	0.00	0.0%
1:00 PM	315.40	78.85	33.1%	0.00	0.00	0.0%
1:15 PM	289.94	72.48	30.4%	0.00	0.00	0.0%
1:30 PM	299.91	74.98	31.5%	0.00	0.00	0.0%
1:45 PM	321.42	80.36	33.7%	0.00	0.00	0.0%
2:00 PM	328.41	82.10	34.5%	0.00	0.00	0.0%
2:15 PM	345.49	86.37	36.2%	0.00	0.00	0.0%
2:30 PM	354.11	88.53	37.1%	0.00	0.00	0.0%
2:45 PM	367.63	91.91	38.6%	0.00	0.00	0.0%
3:00 PM	359.38	89.84	37.7%	0.00	0.00	0.0%
3:15 PM	357.72	89.43	37.5%	0.00	0.00	0.0%
3:30 PM	352.08	88.02	36.9%	0.00	0.00	0.0%
3:45 PM	350.42	87.61	36.8%	0.00	0.00	0.0%
4:00 PM	354.47	88.62	37.2%	0.00	0.00	0.0%
4:15 PM	369.05	92.26	38.7%	0.00	0.00	0.0%
4:30 PM	387.76	96.94	40.7%	0.00	0.00	0.0%
4:45 PM	421.51	105.38	44.2%	0.00	0.00	0.0%
5:00 PM	504.71	126.18	52.9%	0.00	0.00	0.0%
5:15 PM	610.41	152.60	64.0%	0.00	0.00	0.0%
5:30 PM	728.89	182.22	76.5%	0.00	0.00	0.0%
5:45 PM	831.58	207.89	87.2%	0.00	0.00	0.0%
6:00 PM	915.29	228.82	96.0%	0.00	0.00	0.0%
6:15 PM	943.04	235.76	98.9%	0.00	0.00	0.0%
6:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
6:45 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
7:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
7:15 PM	953.26	285.98	100.0%	0.00	0.00	0.0%
7:36 PM	953.26	171.59	100.0%	0.00	0.00	0.0%

JULY 5

Mirror date: June 7
 Analysis hours: 6:52 AM-7:36 PM (PDT)

Analysis Time	EXISTING SHADOW ON REAR YARD			588 2ND STREET NET NEW SHADOW ON REAR YARD		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
6:52 AM	953.26	57.20	100.0%	0.00	0.00	0.0%
7:00 AM	953.26	181.12	100.0%	0.00	0.00	0.0%
7:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
7:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
7:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:00 AM	937.06	234.26	98.3%	0.00	0.00	0.0%
10:15 AM	866.15	216.54	90.9%	0.00	0.00	0.0%
10:30 AM	795.85	198.96	83.5%	0.00	0.00	0.0%
10:45 AM	737.33	184.33	77.3%	0.00	0.00	0.0%
11:00 AM	685.35	171.34	71.9%	0.00	0.00	0.0%
11:15 AM	639.39	159.85	67.1%	0.00	0.00	0.0%
11:30 AM	592.90	148.23	62.2%	0.00	0.00	0.0%
11:45 AM	553.18	138.30	58.0%	0.00	0.00	0.0%
12:00 PM	510.29	127.57	53.5%	0.00	0.00	0.0%
12:15 PM	475.56	118.89	49.9%	0.00	0.00	0.0%
12:30 PM	431.58	107.90	45.3%	0.00	0.00	0.0%
12:45 PM	386.17	96.54	40.5%	0.00	0.00	0.0%
1:00 PM	329.71	82.43	34.6%	0.00	0.00	0.0%
1:15 PM	298.20	74.55	31.3%	0.00	0.00	0.0%
1:30 PM	308.62	77.15	32.4%	0.00	0.00	0.0%
1:45 PM	330.10	82.52	34.6%	1.21	0.30	0.1%
2:00 PM	337.44	84.36	35.4%	0.00	0.00	0.0%
2:15 PM	355.38	88.84	37.3%	0.00	0.00	0.0%
2:30 PM	363.74	90.93	38.2%	0.00	0.00	0.0%
2:45 PM	378.45	94.61	39.7%	0.00	0.00	0.0%
3:00 PM	369.80	92.45	38.8%	0.00	0.00	0.0%
3:15 PM	367.90	91.98	38.6%	0.00	0.00	0.0%
3:30 PM	362.05	90.51	38.0%	0.00	0.00	0.0%
3:45 PM	360.35	90.09	37.8%	0.00	0.00	0.0%
4:00 PM	363.41	90.85	38.1%	0.00	0.00	0.0%
4:15 PM	377.53	94.38	39.6%	0.00	0.00	0.0%
4:30 PM	396.51	99.13	41.6%	0.00	0.00	0.0%
4:45 PM	427.50	106.88	44.8%	0.00	0.00	0.0%
5:00 PM	495.49	123.87	52.0%	0.00	0.00	0.0%
5:15 PM	599.76	149.94	62.9%	0.00	0.00	0.0%
5:30 PM	719.73	179.93	75.5%	0.00	0.00	0.0%
5:45 PM	825.77	206.44	86.6%	0.00	0.00	0.0%
6:00 PM	915.59	228.90	96.0%	0.00	0.00	0.0%
6:15 PM	943.64	235.91	99.0%	0.00	0.00	0.0%
6:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
6:45 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
7:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
7:15 PM	953.26	285.98	100.0%	0.00	0.00	0.0%
7:36 PM	953.26	171.59	100.0%	0.00	0.00	0.0%

JULY 12

Mirror date: May 31
 Analysis hours: 6:56 AM-7:33 PM (PDT)

Analysis Time	EXISTING SHADOW ON REAR YARD			588 2ND STREET NET NEW SHADOW ON REAR YARD		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
6:56 AM	953.26	28.60	100.0%	0.00	0.00	0.0%
7:00 AM	953.26	142.99	100.0%	0.00	0.00	0.0%
7:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
7:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
7:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:00 AM	947.52	236.88	99.4%	0.00	0.00	0.0%
10:15 AM	882.95	220.74	92.6%	0.00	0.00	0.0%
10:30 AM	812.08	203.02	85.2%	0.00	0.00	0.0%
10:45 AM	753.13	188.28	79.0%	0.00	0.00	0.0%
11:00 AM	701.44	175.36	73.6%	0.00	0.00	0.0%
11:15 AM	656.06	164.01	68.8%	0.00	0.00	0.0%
11:30 AM	610.15	152.54	64.0%	0.00	0.00	0.0%
11:45 AM	570.63	142.66	59.9%	0.00	0.00	0.0%
12:00 PM	528.39	132.10	55.4%	0.00	0.00	0.0%
12:15 PM	494.01	123.50	51.8%	0.00	0.00	0.0%
12:30 PM	452.05	113.01	47.4%	0.00	0.00	0.0%
12:45 PM	406.16	101.54	42.6%	0.00	0.00	0.0%
1:00 PM	349.60	87.40	36.7%	0.00	0.00	0.0%
1:15 PM	313.23	78.31	32.9%	0.00	0.00	0.0%
1:30 PM	323.91	80.98	34.0%	1.51	0.38	0.2%
1:45 PM	345.78	86.44	36.3%	3.01	0.75	0.3%
2:00 PM	354.14	88.53	37.2%	2.38	0.60	0.2%
2:15 PM	372.25	93.06	39.1%	2.58	0.64	0.3%
2:30 PM	380.47	95.12	39.9%	0.00	0.00	0.0%
2:45 PM	395.94	98.99	41.5%	0.00	0.00	0.0%
3:00 PM	386.72	96.68	40.6%	0.00	0.00	0.0%
3:15 PM	384.74	96.18	40.4%	0.00	0.00	0.0%
3:30 PM	378.40	94.60	39.7%	0.00	0.00	0.0%
3:45 PM	375.83	93.96	39.4%	0.00	0.00	0.0%
4:00 PM	378.63	94.66	39.7%	0.00	0.00	0.0%
4:15 PM	393.48	98.37	41.3%	0.00	0.00	0.0%
4:30 PM	412.15	103.04	43.2%	0.00	0.00	0.0%
4:45 PM	440.49	110.12	46.2%	0.00	0.00	0.0%
5:00 PM	485.75	121.44	51.0%	0.00	0.00	0.0%
5:15 PM	590.82	147.70	62.0%	0.00	0.00	0.0%
5:30 PM	711.86	177.97	74.7%	0.00	0.00	0.0%
5:45 PM	822.67	205.67	86.3%	0.00	0.00	0.0%
6:00 PM	917.49	229.37	96.2%	0.00	0.00	0.0%
6:15 PM	945.99	236.50	99.2%	0.00	0.00	0.0%
6:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
6:45 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
7:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
7:15 PM	953.26	266.91	100.0%	0.00	0.00	0.0%
7:33 PM	953.26	142.99	100.0%	0.00	0.00	0.0%

JULY 19

Mirror date: May 24

Analysis hours: 7:01 AM-7:30 PM (PDT)

Analysis Time	EXISTING SHADOW ON REAR YARD			588 2ND STREET NET NEW SHADOW ON REAR YARD		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:01 AM	953.26	123.92	100.0%	0.00	0.00	0.0%
7:16 AM	953.26	228.78	100.0%	0.00	0.00	0.0%
7:30 AM	953.26	228.78	100.0%	0.00	0.00	0.0%
7:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:15 AM	901.35	225.34	94.6%	0.00	0.00	0.0%
10:30 AM	830.31	207.58	87.1%	0.00	0.00	0.0%
10:45 AM	771.48	192.87	80.9%	0.00	0.00	0.0%
11:00 AM	720.53	180.13	75.6%	0.00	0.00	0.0%
11:15 AM	676.31	169.08	70.9%	0.00	0.00	0.0%
11:30 AM	631.22	157.80	66.2%	0.00	0.00	0.0%
11:45 AM	592.44	148.11	62.1%	0.00	0.00	0.0%
12:00 PM	551.21	137.80	57.8%	0.00	0.00	0.0%
12:15 PM	517.63	129.41	54.3%	0.00	0.00	0.0%
12:30 PM	477.59	119.40	50.1%	0.00	0.00	0.0%
12:45 PM	431.29	107.82	45.2%	0.00	0.00	0.0%
1:00 PM	374.56	93.64	39.3%	0.00	0.00	0.0%
1:15 PM	335.38	83.84	35.2%	0.00	0.00	0.0%
1:30 PM	346.53	86.63	36.4%	2.82	0.70	0.3%
1:45 PM	368.69	92.17	38.7%	5.58	1.40	0.6%
2:00 PM	377.86	94.47	39.6%	6.33	1.58	0.7%
2:15 PM	396.63	99.16	41.6%	7.82	1.95	0.8%
2:30 PM	404.89	101.22	42.5%	5.40	1.35	0.6%
2:45 PM	420.15	105.04	44.1%	3.63	0.91	0.4%
3:00 PM	410.01	102.50	43.0%	0.00	0.00	0.0%
3:15 PM	407.84	101.96	42.8%	0.00	0.00	0.0%
3:30 PM	400.00	100.00	42.0%	0.00	0.00	0.0%
3:45 PM	397.49	99.37	41.7%	0.00	0.00	0.0%
4:00 PM	400.92	100.23	42.1%	0.00	0.00	0.0%
4:15 PM	416.29	104.07	43.7%	0.00	0.00	0.0%
4:30 PM	436.66	109.16	45.8%	0.00	0.00	0.0%
4:45 PM	465.31	116.33	48.8%	0.00	0.00	0.0%
5:00 PM	503.13	125.78	52.8%	0.00	0.00	0.0%
5:15 PM	583.96	145.99	61.3%	0.00	0.00	0.0%
5:30 PM	706.06	176.51	74.1%	0.00	0.00	0.0%
5:45 PM	824.42	206.10	86.5%	0.00	0.00	0.0%
6:00 PM	922.19	230.55	96.7%	0.00	0.00	0.0%
6:15 PM	949.65	237.41	99.6%	0.00	0.00	0.0%
6:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
6:45 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
7:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
7:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
7:30 PM	953.26	123.92	100.0%	0.00	0.00	0.0%

JULY 26

Mirror date: May 17
 Analysis hours: 7:07 AM-7:25 PM (PDT)

Analysis Time	EXISTING SHADOW ON REAR YARD			588 2ND STREET NET NEW SHADOW ON REAR YARD		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:07 AM	953.26	57.20	100.0%	0.00	0.00	0.0%
7:15 AM	953.26	181.12	100.0%	0.00	0.00	0.0%
7:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
7:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:15 AM	921.15	230.29	96.6%	0.00	0.00	0.0%
10:30 AM	850.51	212.63	89.2%	0.00	0.00	0.0%
10:45 AM	792.25	198.06	83.1%	0.00	0.00	0.0%
11:00 AM	742.46	185.61	77.9%	0.00	0.00	0.0%
11:15 AM	699.94	174.98	73.4%	0.00	0.00	0.0%
11:30 AM	656.17	164.04	68.8%	0.00	0.00	0.0%
11:45 AM	618.53	154.63	64.9%	0.00	0.00	0.0%
12:00 PM	578.40	144.60	60.7%	0.00	0.00	0.0%
12:15 PM	545.56	136.39	57.2%	0.00	0.00	0.0%
12:30 PM	506.88	126.72	53.2%	0.00	0.00	0.0%
12:45 PM	461.60	115.40	48.4%	0.00	0.00	0.0%
1:00 PM	404.44	101.11	42.4%	0.00	0.00	0.0%
1:15 PM	364.47	91.12	38.2%	0.00	0.00	0.0%
1:30 PM	376.00	94.00	39.4%	4.58	1.14	0.5%
1:45 PM	398.46	99.61	41.8%	8.99	2.25	0.9%
2:00 PM	408.64	102.16	42.9%	11.44	2.86	1.2%
2:15 PM	428.35	107.09	44.9%	14.67	3.67	1.5%
2:30 PM	436.52	109.13	45.8%	13.97	3.49	1.5%
2:45 PM	450.88	112.72	47.3%	12.96	3.24	1.4%
3:00 PM	439.41	109.85	46.1%	7.96	1.99	0.8%
3:15 PM	436.87	109.22	45.8%	4.15	1.04	0.4%
3:30 PM	427.42	106.86	44.8%	0.00	0.00	0.0%
3:45 PM	423.47	105.87	44.4%	0.00	0.00	0.0%
4:00 PM	428.72	107.18	45.0%	0.00	0.00	0.0%
4:15 PM	445.26	111.32	46.7%	0.00	0.00	0.0%
4:30 PM	467.62	116.90	49.1%	0.00	0.00	0.0%
4:45 PM	499.56	124.89	52.4%	0.00	0.00	0.0%
5:00 PM	535.60	133.90	56.2%	0.00	0.00	0.0%
5:15 PM	588.13	147.03	61.7%	0.00	0.00	0.0%
5:30 PM	702.67	175.67	73.7%	0.00	0.00	0.0%
5:45 PM	831.57	207.89	87.2%	0.00	0.00	0.0%
6:00 PM	926.74	231.69	97.2%	0.00	0.00	0.0%
6:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
6:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
6:45 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
7:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
7:15 PM	953.26	200.18	100.0%	0.00	0.00	0.0%
7:25 PM	953.26	85.79	100.0%	0.00	0.00	0.0%

AUGUST 2

Mirror date: May 10
 Analysis hours: 7:12 AM-7:18 PM (PDT)

Analysis Time	EXISTING SHADOW ON REAR YARD			588 2ND STREET NET NEW SHADOW ON REAR YARD		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:12 AM	953.26	19.07	100.0%	0.00	0.00	0.0%
7:15 AM	953.26	142.99	100.0%	0.00	0.00	0.0%
7:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
7:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:15 AM	934.98	233.74	98.1%	0.00	0.00	0.0%
10:30 AM	870.80	217.70	91.3%	0.00	0.00	0.0%
10:45 AM	813.88	203.47	85.4%	0.00	0.00	0.0%
11:00 AM	765.72	191.43	80.3%	0.00	0.00	0.0%
11:15 AM	724.90	181.23	76.0%	0.00	0.00	0.0%
11:30 AM	682.62	170.65	71.6%	0.00	0.00	0.0%
11:45 AM	646.13	161.53	67.8%	0.00	0.00	0.0%
12:00 PM	607.62	151.90	63.7%	0.00	0.00	0.0%
12:15 PM	575.65	143.91	60.4%	0.00	0.00	0.0%
12:30 PM	538.73	134.68	56.5%	0.00	0.00	0.0%
12:45 PM	497.34	124.34	52.2%	0.00	0.00	0.0%
1:00 PM	441.50	110.38	46.3%	0.00	0.00	0.0%
1:15 PM	404.86	101.22	42.5%	0.00	0.00	0.0%
1:30 PM	417.12	104.28	43.8%	5.51	1.38	0.6%
1:45 PM	440.78	110.20	46.2%	10.67	2.67	1.1%
2:00 PM	450.40	112.60	47.2%	15.42	3.85	1.6%
2:15 PM	470.98	117.74	49.4%	20.22	5.05	2.1%
2:30 PM	477.95	119.49	50.1%	24.23	6.06	2.5%
2:45 PM	487.13	121.78	51.1%	25.16	6.29	2.6%
3:00 PM	475.05	118.76	49.8%	20.91	5.23	2.2%
3:15 PM	470.47	117.62	49.4%	17.92	4.48	1.9%
3:30 PM	459.54	114.89	48.2%	10.53	2.63	1.1%
3:45 PM	455.97	113.99	47.8%	3.26	0.81	0.3%
4:00 PM	463.04	115.76	48.6%	0.00	0.00	0.0%
4:15 PM	481.50	120.38	50.5%	0.00	0.00	0.0%
4:30 PM	506.35	126.59	53.1%	0.00	0.00	0.0%
4:45 PM	541.23	135.31	56.8%	0.00	0.00	0.0%
5:00 PM	581.92	145.48	61.0%	0.00	0.00	0.0%
5:15 PM	631.60	157.90	66.3%	0.00	0.00	0.0%
5:30 PM	707.70	176.93	74.2%	0.00	0.00	0.0%
5:45 PM	844.77	211.19	88.6%	0.00	0.00	0.0%
6:00 PM	932.47	233.12	97.8%	0.00	0.00	0.0%
6:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
6:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
6:45 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
7:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
7:15 PM	953.26	142.99	100.0%	0.00	0.00	0.0%
7:18 PM	953.26	28.60	100.0%	0.00	0.00	0.0%

AUGUST 9

Mirror date: May 3

Analysis hours: 7:19 AM-7:10 PM (PDT)

Analysis Time	EXISTING SHADOW ON REAR YARD			588 2ND STREET NET NEW SHADOW ON REAR YARD		
	Shadow Area (sf)	Area/Time (sfn)	Coverage	Shadow Area (sf)	Area/Time (sfn)	Coverage
7:19 AM	953.26	85.79	100.0%	0.00	0.00	0.0%
7:30 AM	953.26	200.18	100.0%	0.00	0.00	0.0%
7:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:15 AM	945.89	236.47	99.2%	0.00	0.00	0.0%
10:30 AM	890.90	222.72	93.5%	0.00	0.00	0.0%
10:45 AM	836.31	209.08	87.7%	0.00	0.00	0.0%
11:00 AM	789.07	197.27	82.8%	0.00	0.00	0.0%
11:15 AM	748.94	187.24	78.6%	0.00	0.00	0.0%
11:30 AM	709.11	177.28	74.4%	0.00	0.00	0.0%
11:45 AM	674.56	168.64	70.8%	0.00	0.00	0.0%
12:00 PM	637.99	159.50	66.9%	0.00	0.00	0.0%
12:15 PM	608.10	152.03	63.8%	0.00	0.00	0.0%
12:30 PM	573.21	143.30	60.1%	0.00	0.00	0.0%
12:45 PM	537.26	134.31	56.4%	0.00	0.00	0.0%
1:00 PM	483.74	120.94	50.7%	0.00	0.00	0.0%
1:15 PM	452.87	113.22	47.5%	0.00	0.00	0.0%
1:30 PM	467.23	116.81	49.0%	6.66	1.66	0.7%
1:45 PM	492.26	123.07	51.6%	12.47	3.12	1.3%
2:00 PM	504.16	126.04	52.9%	17.89	4.47	1.9%
2:15 PM	526.65	131.66	55.2%	23.51	5.88	2.5%
2:30 PM	536.13	134.03	56.2%	28.30	7.07	3.0%
2:45 PM	538.20	134.55	56.5%	31.41	7.85	3.3%
3:00 PM	520.92	130.23	54.6%	31.93	7.98	3.3%
3:15 PM	511.74	127.94	53.7%	32.95	8.24	3.5%
3:30 PM	496.23	124.06	52.1%	28.84	7.21	3.0%
3:45 PM	495.61	123.90	52.0%	19.47	4.87	2.0%
4:00 PM	503.30	125.82	52.8%	8.09	2.02	0.8%
4:15 PM	524.48	131.12	55.0%	1.10	0.27	0.1%
4:30 PM	551.43	137.86	57.8%	0.00	0.00	0.0%
4:45 PM	590.50	147.63	61.9%	0.00	0.00	0.0%
5:00 PM	636.73	159.18	66.8%	0.00	0.00	0.0%
5:15 PM	695.06	173.76	72.9%	0.00	0.00	0.0%
5:30 PM	764.14	191.03	80.2%	0.00	0.00	0.0%
5:45 PM	854.97	213.74	89.7%	0.00	0.00	0.0%
6:00 PM	938.99	234.75	98.5%	0.00	0.00	0.0%
6:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
6:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
6:45 PM	953.26	324.11	100.0%	0.00	0.00	0.0%
7:10 PM	953.26	200.18	100.0%	0.00	0.00	0.0%

AUGUST 16

Mirror date: April 26
 Analysis hours: 7:25 AM-7:02 PM (PDT)

Analysis Time	EXISTING SHADOW ON REAR YARD			588 2ND STREET NET NEW SHADOW ON REAR YARD		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:25 AM	953.26	38.13	100.0%	0.00	0.00	0.0%
7:30 AM	953.26	162.05	100.0%	0.00	0.00	0.0%
7:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:15 AM	952.60	238.15	99.9%	0.00	0.00	0.0%
10:30 AM	910.61	227.65	95.5%	0.00	0.00	0.0%
10:45 AM	858.22	214.55	90.0%	0.00	0.00	0.0%
11:00 AM	811.83	202.96	85.2%	0.00	0.00	0.0%
11:15 AM	773.16	193.29	81.1%	0.00	0.00	0.0%
11:30 AM	737.03	184.26	77.3%	0.00	0.00	0.0%
11:45 AM	705.58	176.40	74.0%	0.00	0.00	0.0%
12:00 PM	671.73	167.93	70.5%	0.00	0.00	0.0%
12:15 PM	644.50	161.13	67.6%	0.00	0.00	0.0%
12:30 PM	611.99	153.00	64.2%	0.00	0.00	0.0%
12:45 PM	582.67	145.67	61.1%	0.00	0.00	0.0%
1:00 PM	531.95	132.99	55.8%	0.00	0.00	0.0%
1:15 PM	508.99	127.25	53.4%	0.00	0.00	0.0%
1:30 PM	525.66	131.41	55.1%	7.16	1.79	0.8%
1:45 PM	552.55	138.14	58.0%	14.35	3.59	1.5%
2:00 PM	567.09	141.77	59.5%	20.88	5.22	2.2%
2:15 PM	592.18	148.05	62.1%	27.40	6.85	2.9%
2:30 PM	604.53	151.13	63.4%	33.28	8.32	3.5%
2:45 PM	598.06	149.51	62.7%	37.89	9.47	4.0%
3:00 PM	579.03	144.76	60.7%	39.42	9.86	4.1%
3:15 PM	568.24	142.06	59.6%	41.28	10.32	4.3%
3:30 PM	548.35	137.09	57.5%	39.26	9.82	4.1%
3:45 PM	548.34	137.09	57.5%	33.42	8.36	3.5%
4:00 PM	550.77	137.69	57.8%	25.70	6.43	2.7%
4:15 PM	572.96	143.24	60.1%	14.40	3.60	1.5%
4:30 PM	603.06	150.76	63.3%	3.69	0.92	0.4%
4:45 PM	646.15	161.54	67.8%	0.00	0.00	0.0%
5:00 PM	699.08	174.77	73.3%	0.00	0.00	0.0%
5:15 PM	770.23	192.56	80.8%	0.00	0.00	0.0%
5:30 PM	845.65	211.41	88.7%	0.00	0.00	0.0%
5:45 PM	892.56	223.14	93.6%	0.00	0.00	0.0%
6:00 PM	939.49	234.87	98.6%	0.00	0.00	0.0%
6:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
6:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
6:45 PM	953.26	257.38	100.0%	0.00	0.00	0.0%
7:02 PM	953.26	133.46	100.0%	0.00	0.00	0.0%

AUGUST 23

Mirror date: April 19

Analysis hours: 7:31 AM-6:52 PM (PDT)

Analysis Time	EXISTING SHADOW ON REAR YARD			588 2ND STREET NET NEW SHADOW ON REAR YARD		
	Shadow Area (sf)	Area/Time (sfn)	Coverage	Shadow Area (sf)	Area/Time (sfn)	Coverage
7:31 AM	953.26	104.86	100.0%	0.00	0.00	0.0%
7:45 AM	953.26	219.25	100.0%	0.00	0.00	0.0%
8:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:30 AM	927.39	231.85	97.3%	0.00	0.00	0.0%
10:45 AM	877.18	219.30	92.0%	0.00	0.00	0.0%
11:00 AM	832.69	208.17	87.4%	0.00	0.00	0.0%
11:15 AM	798.12	199.53	83.7%	0.00	0.00	0.0%
11:30 AM	766.34	191.59	80.4%	0.00	0.00	0.0%
11:45 AM	738.44	184.61	77.5%	0.00	0.00	0.0%
12:00 PM	708.18	177.05	74.3%	0.00	0.00	0.0%
12:15 PM	684.07	171.02	71.8%	0.00	0.00	0.0%
12:30 PM	654.50	163.63	68.7%	0.00	0.00	0.0%
12:45 PM	631.47	157.87	66.2%	0.00	0.00	0.0%
1:00 PM	583.43	145.86	61.2%	0.00	0.00	0.0%
1:15 PM	572.57	143.14	60.1%	0.00	0.00	0.0%
1:30 PM	592.74	148.19	62.2%	4.82	1.20	0.5%
1:45 PM	622.62	155.65	65.3%	13.78	3.45	1.4%
2:00 PM	640.03	160.01	67.1%	23.18	5.80	2.4%
2:15 PM	668.35	167.09	70.1%	31.63	7.91	3.3%
2:30 PM	678.44	169.61	71.2%	39.19	9.80	4.1%
2:45 PM	665.53	166.38	69.8%	45.25	11.31	4.7%
3:00 PM	643.49	160.87	67.5%	48.37	12.09	5.1%
3:15 PM	631.34	157.84	66.2%	51.17	12.79	5.4%
3:30 PM	611.90	152.97	64.2%	47.39	11.85	5.0%
3:45 PM	615.16	153.79	64.5%	41.34	10.34	4.3%
4:00 PM	617.55	154.39	64.8%	33.63	8.41	3.5%
4:15 PM	636.42	159.10	66.8%	26.20	6.55	2.7%
4:30 PM	663.84	165.96	69.6%	16.93	4.23	1.8%
4:45 PM	711.55	177.89	74.6%	5.99	1.50	0.6%
5:00 PM	773.90	193.48	81.2%	0.00	0.00	0.0%
5:15 PM	847.09	211.77	88.9%	0.00	0.00	0.0%
5:30 PM	914.30	228.57	95.9%	0.00	0.00	0.0%
5:45 PM	939.19	234.80	98.5%	0.00	0.00	0.0%
6:00 PM	945.77	236.44	99.2%	0.00	0.00	0.0%
6:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
6:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
6:45 PM	953.26	181.12	100.0%	0.00	0.00	0.0%
6:52 PM	953.26	57.20	100.0%	0.00	0.00	0.0%

AUGUST 30

Mirror date: April 12
 Analysis hours: 7:37 AM-6:42 PM (PDT)

Analysis Time	EXISTING SHADOW ON REAR YARD			588 2ND STREET NET NEW SHADOW ON REAR YARD		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:37 AM	953.26	57.20	100.0%	0.00	0.00	0.0%
7:45 AM	953.26	181.12	100.0%	0.00	0.00	0.0%
8:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:30 AM	940.68	235.17	98.7%	0.00	0.00	0.0%
10:45 AM	893.60	223.40	93.7%	0.00	0.00	0.0%
11:00 AM	853.79	213.45	89.6%	0.00	0.00	0.0%
11:15 AM	826.02	206.51	86.7%	0.00	0.00	0.0%
11:30 AM	799.49	199.87	83.9%	0.00	0.00	0.0%
11:45 AM	776.41	194.10	81.4%	0.00	0.00	0.0%
12:00 PM	749.75	187.44	78.7%	0.00	0.00	0.0%
12:15 PM	729.38	182.35	76.5%	0.00	0.00	0.0%
12:30 PM	702.85	175.71	73.7%	0.00	0.00	0.0%
12:45 PM	682.80	170.70	71.6%	0.00	0.00	0.0%
1:00 PM	636.64	159.16	66.8%	0.00	0.00	0.0%
1:15 PM	640.47	160.12	67.2%	0.00	0.00	0.0%
1:30 PM	665.55	166.39	69.8%	5.09	1.27	0.5%
1:45 PM	700.15	175.04	73.4%	14.53	3.63	1.5%
2:00 PM	722.92	180.73	75.8%	24.42	6.11	2.6%
2:15 PM	755.81	188.95	79.3%	34.38	8.60	3.6%
2:30 PM	755.31	188.83	79.2%	44.54	11.14	4.7%
2:45 PM	740.46	185.11	77.7%	53.42	13.36	5.6%
3:00 PM	715.06	178.76	75.0%	59.14	14.78	6.2%
3:15 PM	700.84	175.21	73.5%	61.92	15.48	6.5%
3:30 PM	683.09	170.77	71.7%	56.84	14.21	6.0%
3:45 PM	683.39	170.85	71.7%	51.19	12.80	5.4%
4:00 PM	690.01	172.50	72.4%	43.76	10.94	4.6%
4:15 PM	711.54	177.89	74.6%	36.17	9.04	3.8%
4:30 PM	740.95	185.24	77.7%	23.83	5.96	2.5%
4:45 PM	793.08	198.27	83.2%	8.14	2.03	0.9%
5:00 PM	864.22	216.05	90.7%	0.00	0.00	0.0%
5:15 PM	918.41	229.60	96.3%	0.00	0.00	0.0%
5:30 PM	952.25	238.06	99.9%	0.00	0.00	0.0%
5:45 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
6:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
6:15 PM	951.09	237.77	99.8%	0.00	0.00	0.0%
6:30 PM	953.26	219.25	100.0%	0.00	0.00	0.0%
6:42 PM	953.26	104.86	100.0%	0.00	0.00	0.0%

SEPTEMBER 6

Mirror date: April 5
 Analysis hours: 7:44 AM-6:31 PM (PDT)

Analysis Time	EXISTING SHADOW ON REAR YARD			588 2ND STREET NET NEW SHADOW ON REAR YARD		
	Shadow Area (sf)	Area/Time (sfn)	Coverage	Shadow Area (sf)	Area/Time (sfn)	Coverage
7:44 AM	953.26	123.92	100.0%	0.00	0.00	0.0%
8:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:30 AM	947.17	236.79	99.4%	0.00	0.00	0.0%
10:45 AM	908.48	227.12	95.3%	0.00	0.00	0.0%
11:00 AM	874.97	218.74	91.8%	0.00	0.00	0.0%
11:15 AM	858.39	214.60	90.0%	0.00	0.00	0.0%
11:30 AM	833.97	208.49	87.5%	0.00	0.00	0.0%
11:45 AM	811.97	202.99	85.2%	0.00	0.00	0.0%
12:00 PM	788.83	197.21	82.8%	0.00	0.00	0.0%
12:15 PM	768.30	192.07	80.6%	0.00	0.00	0.0%
12:30 PM	746.57	186.64	78.3%	0.00	0.00	0.0%
12:45 PM	724.19	181.05	76.0%	0.00	0.00	0.0%
1:00 PM	687.22	171.80	72.1%	0.00	0.00	0.0%
1:15 PM	707.23	176.81	74.2%	0.00	0.00	0.0%
1:30 PM	743.16	185.79	78.0%	6.18	1.55	0.6%
1:45 PM	782.92	195.73	82.1%	16.01	4.00	1.7%
2:00 PM	814.47	203.62	85.4%	26.47	6.62	2.8%
2:15 PM	853.40	213.35	89.5%	36.95	9.24	3.9%
2:30 PM	838.87	209.72	88.0%	47.84	11.96	5.0%
2:45 PM	822.96	205.74	86.3%	58.17	14.54	6.1%
3:00 PM	795.13	198.78	83.4%	67.03	16.76	7.0%
3:15 PM	777.77	194.44	81.6%	73.71	18.43	7.7%
3:30 PM	757.72	189.43	79.5%	67.63	16.91	7.1%
3:45 PM	755.79	188.95	79.3%	62.21	15.55	6.5%
4:00 PM	766.16	191.54	80.4%	53.74	13.44	5.6%
4:15 PM	793.58	198.39	83.2%	39.05	9.76	4.1%
4:30 PM	826.90	206.73	86.7%	18.78	4.70	2.0%
4:45 PM	879.02	219.76	92.2%	1.69	0.42	0.2%
5:00 PM	915.76	228.94	96.1%	0.00	0.00	0.0%
5:15 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
5:30 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
5:45 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
6:00 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
6:15 PM	953.26	257.38	100.0%	0.00	0.00	0.0%
6:31 PM	953.26	133.46	100.0%	0.00	0.00	0.0%

SEPTEMBER 13

Mirror date: March 29
 Analysis hours: 7:50 AM-6:21 PM (PDT)

Analysis Time	EXISTING SHADOW ON REAR YARD			588 2ND STREET NET NEW SHADOW ON REAR YARD		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:50 AM	953.26	76.26	100.0%	0.00	0.00	0.0%
8:00 AM	953.26	200.18	100.0%	0.00	0.00	0.0%
8:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:30 AM	950.03	237.51	99.7%	0.00	0.00	0.0%
10:45 AM	921.87	230.47	96.7%	0.00	0.00	0.0%
11:00 AM	901.47	225.37	94.6%	0.00	0.00	0.0%
11:15 AM	879.56	219.89	92.3%	0.00	0.00	0.0%
11:30 AM	852.78	213.20	89.5%	0.00	0.00	0.0%
11:45 AM	828.55	207.14	86.9%	0.00	0.00	0.0%
12:00 PM	803.67	200.92	84.3%	0.00	0.00	0.0%
12:15 PM	781.58	195.40	82.0%	0.00	0.00	0.0%
12:30 PM	758.40	189.60	79.6%	0.00	0.00	0.0%
12:45 PM	734.02	183.51	77.0%	0.00	0.00	0.0%
1:00 PM	703.18	175.80	73.8%	0.00	0.00	0.0%
1:15 PM	742.26	185.57	77.9%	0.00	0.00	0.0%
1:30 PM	782.94	195.73	82.1%	6.26	1.57	0.7%
1:45 PM	827.49	206.87	86.8%	14.72	3.68	1.5%
2:00 PM	869.17	217.29	91.2%	26.03	6.51	2.7%
2:15 PM	907.83	226.96	95.2%	36.24	9.06	3.8%
2:30 PM	895.13	223.78	93.9%	51.49	12.87	5.4%
2:45 PM	885.96	221.49	92.9%	62.84	15.71	6.6%
3:00 PM	868.43	217.11	91.1%	72.68	18.17	7.6%
3:15 PM	855.63	213.91	89.8%	81.09	20.27	8.5%
3:30 PM	835.89	208.97	87.7%	79.98	19.99	8.4%
3:45 PM	835.09	208.77	87.6%	73.17	18.29	7.7%
4:00 PM	847.24	211.81	88.9%	55.63	13.91	5.8%
4:15 PM	876.49	219.12	91.9%	32.46	8.11	3.4%
4:30 PM	910.40	227.60	95.5%	7.56	1.89	0.8%
4:45 PM	943.78	235.95	99.0%	0.00	0.00	0.0%
5:00 PM	948.01	237.00	99.4%	0.00	0.00	0.0%
5:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
5:30 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
5:45 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
6:00 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
6:15 PM	953.25	171.59	100.0%	0.00	0.00	0.0%
6:21 PM	953.25	47.66	100.0%	0.00	0.00	0.0%

SEPTEMBER 20

Fall equinox (Spring equinox on March 22 similar)

Analysis hours: 7:57 AM-6:09 PM (PDT)

Analysis Time	EXISTING SHADOW ON REAR YARD			588 2ND STREET NET NEW SHADOW ON REAR YARD		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:57 AM	953.26	19.07	100.0%	0.00	0.00	0.0%
8:00 AM	953.26	142.99	100.0%	0.00	0.00	0.0%
8:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:30 AM	952.57	238.14	99.9%	0.00	0.00	0.0%
10:45 AM	937.07	234.27	98.3%	0.00	0.00	0.0%
11:00 AM	919.85	229.96	96.5%	0.00	0.00	0.0%
11:15 AM	891.86	222.97	93.6%	0.00	0.00	0.0%
11:30 AM	865.22	216.31	90.8%	0.00	0.00	0.0%
11:45 AM	839.99	210.00	88.1%	0.00	0.00	0.0%
12:00 PM	815.05	203.76	85.5%	0.00	0.00	0.0%
12:15 PM	791.97	197.99	83.1%	0.00	0.00	0.0%
12:30 PM	768.49	192.12	80.6%	0.00	0.00	0.0%
12:45 PM	746.86	186.72	78.3%	0.00	0.00	0.0%
1:00 PM	731.76	182.94	76.8%	0.00	0.00	0.0%
1:15 PM	779.60	194.90	81.8%	0.00	0.00	0.0%
1:30 PM	825.32	206.33	86.6%	0.00	0.00	0.0%
1:45 PM	874.90	218.73	91.8%	0.00	0.00	0.0%
2:00 PM	921.66	230.41	96.7%	3.89	0.97	0.4%
2:15 PM	947.28	236.82	99.4%	5.12	1.28	0.5%
2:30 PM	941.76	235.44	98.8%	11.10	2.78	1.2%
2:45 PM	940.47	235.12	98.7%	12.79	3.20	1.3%
3:00 PM	932.50	233.13	97.8%	20.76	5.19	2.2%
3:15 PM	929.42	232.36	97.5%	23.83	5.96	2.5%
3:30 PM	919.32	229.83	96.4%	33.37	8.34	3.5%
3:45 PM	920.56	230.14	96.6%	31.74	7.93	3.3%
4:00 PM	923.85	230.96	96.9%	27.10	6.77	2.8%
4:15 PM	935.68	233.92	98.2%	14.10	3.53	1.5%
4:30 PM	951.16	237.79	99.8%	0.00	0.00	0.0%
4:45 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
5:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
5:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
5:30 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
5:45 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
6:00 PM	953.26	200.18	100.0%	0.00	0.00	0.0%
6:09 PM	953.25	76.26	100.0%	0.00	0.00	0.0%

SEPTEMBER 27

Mirror date: March 15
 Analysis hours: 8:03 AM-5:58 PM (PDT)

Analysis Time	EXISTING SHADOW ON REAR YARD			588 2ND STREET NET NEW SHADOW ON REAR YARD		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
8:03 AM	953.26	95.33	100.0%	0.00	0.00	0.0%
8:15 AM	953.26	209.72	100.0%	0.00	0.00	0.0%
8:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:45 AM	949.19	237.30	99.6%	0.00	0.00	0.0%
11:00 AM	923.01	230.75	96.8%	0.00	0.00	0.0%
11:15 AM	896.68	224.17	94.1%	0.00	0.00	0.0%
11:30 AM	871.78	217.94	91.5%	0.00	0.00	0.0%
11:45 AM	847.51	211.88	88.9%	0.00	0.00	0.0%
12:00 PM	823.58	205.90	86.4%	0.00	0.00	0.0%
12:15 PM	800.88	200.22	84.0%	0.00	0.00	0.0%
12:30 PM	777.99	194.50	81.6%	0.00	0.00	0.0%
12:45 PM	755.94	188.99	79.3%	0.00	0.00	0.0%
1:00 PM	756.49	189.12	79.4%	0.00	0.00	0.0%
1:15 PM	802.08	200.52	84.1%	0.00	0.00	0.0%
1:30 PM	847.56	211.89	88.9%	0.00	0.00	0.0%
1:45 PM	896.18	224.05	94.0%	0.00	0.00	0.0%
2:00 PM	945.72	236.43	99.2%	0.00	0.00	0.0%
2:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
2:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
2:45 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:30 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
3:45 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
4:00 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
4:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
4:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
4:45 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
5:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
5:15 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
5:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
5:45 PM	953.25	219.25	100.0%	0.00	0.00	0.0%
5:58 PM	953.26	104.86	100.0%	0.00	0.00	0.0%

OCTOBER 4

Mirror date: March 8

Analysis hours: 8:09 AM-5:47 PM (PDT)

Analysis Time	EXISTING SHADOW ON REAR YARD			588 2ND STREET NET NEW SHADOW ON REAR YARD		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
8:09 AM	953.26	38.13	100.0%	0.00	0.00	0.0%
8:15 AM	953.26	162.05	100.0%	0.00	0.00	0.0%
8:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:45 AM	939.56	234.89	98.6%	0.00	0.00	0.0%
11:00 AM	917.25	229.31	96.2%	0.00	0.00	0.0%
11:15 AM	894.55	223.64	93.8%	0.00	0.00	0.0%
11:30 AM	873.03	218.26	91.6%	0.00	0.00	0.0%
11:45 AM	851.17	212.79	89.3%	0.00	0.00	0.0%
12:00 PM	829.40	207.35	87.0%	0.00	0.00	0.0%
12:15 PM	808.54	202.14	84.8%	0.00	0.00	0.0%
12:30 PM	787.38	196.85	82.6%	0.00	0.00	0.0%
12:45 PM	768.35	192.09	80.6%	0.00	0.00	0.0%
1:00 PM	771.97	192.99	81.0%	0.00	0.00	0.0%
1:15 PM	819.64	204.91	86.0%	0.00	0.00	0.0%
1:30 PM	867.19	216.80	91.0%	0.00	0.00	0.0%
1:45 PM	914.35	228.59	95.9%	0.00	0.00	0.0%
2:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
2:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
2:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
2:45 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:15 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
3:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:45 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
4:00 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
4:15 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
4:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
4:45 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
5:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
5:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
5:30 PM	953.25	257.38	100.0%	0.00	0.00	0.0%
5:47 PM	953.26	133.46	100.0%	0.00	0.00	0.0%

OCTOBER 11

Mirror date: March 1
 Analysis hours: 8:16 AM-5:37 PM (PDT)

Analysis Time	EXISTING SHADOW ON REAR YARD			588 2ND STREET NET NEW SHADOW ON REAR YARD		
	Shadow Area (sf)	Area/Time (sfn)	Coverage	Shadow Area (sf)	Area/Time (sfn)	Coverage
8:16 AM	953.26	114.39	100.0%	0.00	0.00	0.0%
8:30 AM	953.26	228.78	100.0%	0.00	0.00	0.0%
8:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:30 AM	949.40	237.35	99.6%	0.00	0.00	0.0%
10:45 AM	929.90	232.47	97.5%	0.00	0.00	0.0%
11:00 AM	911.11	227.78	95.6%	0.00	0.00	0.0%
11:15 AM	891.95	222.99	93.6%	0.00	0.00	0.0%
11:30 AM	872.79	218.20	91.6%	0.00	0.00	0.0%
11:45 AM	853.74	213.44	89.6%	0.00	0.00	0.0%
12:00 PM	834.50	208.63	87.5%	0.00	0.00	0.0%
12:15 PM	816.15	204.04	85.6%	0.00	0.00	0.0%
12:30 PM	797.36	199.34	83.6%	0.00	0.00	0.0%
12:45 PM	779.90	194.98	81.8%	0.00	0.00	0.0%
1:00 PM	797.87	199.47	83.7%	0.00	0.00	0.0%
1:15 PM	841.22	210.31	88.2%	0.00	0.00	0.0%
1:30 PM	884.47	221.12	92.8%	0.00	0.00	0.0%
1:45 PM	929.35	232.34	97.5%	0.00	0.00	0.0%
2:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
2:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
2:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
2:45 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:00 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
3:15 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
3:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:45 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
4:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
4:15 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
4:30 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
4:45 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
5:00 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
5:15 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
5:30 PM	953.25	181.12	100.0%	0.00	0.00	0.0%
5:37 PM	953.25	57.20	100.0%	0.00	0.00	0.0%

OCTOBER 18

Mirror date: February 22
 Analysis hours: 8:22 AM-5:27 PM (PDT)

Analysis Time	EXISTING SHADOW ON REAR YARD			588 2ND STREET NET NEW SHADOW ON REAR YARD		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
8:22 AM	953.26	57.20	100.0%	0.00	0.00	0.0%
8:30 AM	953.26	171.59	100.0%	0.00	0.00	0.0%
8:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:30 AM	941.34	235.34	98.7%	0.00	0.00	0.0%
10:45 AM	925.35	231.34	97.1%	0.00	0.00	0.0%
11:00 AM	909.42	227.35	95.4%	0.00	0.00	0.0%
11:15 AM	892.88	223.22	93.7%	0.00	0.00	0.0%
11:30 AM	876.03	219.01	91.9%	0.00	0.00	0.0%
11:45 AM	859.46	214.86	90.2%	0.00	0.00	0.0%
12:00 PM	842.29	210.57	88.4%	0.00	0.00	0.0%
12:15 PM	826.33	206.58	86.7%	0.00	0.00	0.0%
12:30 PM	809.56	202.39	84.9%	0.00	0.00	0.0%
12:45 PM	794.51	198.63	83.3%	0.00	0.00	0.0%
1:00 PM	817.94	204.49	85.8%	0.00	0.00	0.0%
1:15 PM	858.05	214.51	90.0%	0.00	0.00	0.0%
1:30 PM	898.15	224.54	94.2%	0.00	0.00	0.0%
1:45 PM	939.44	234.86	98.5%	0.00	0.00	0.0%
2:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
2:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
2:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
2:45 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
3:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:45 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
4:00 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
4:15 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
4:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
4:45 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
5:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
5:15 PM	953.25	209.72	100.0%	0.00	0.00	0.0%
5:27 PM	953.26	95.33	100.0%	0.00	0.00	0.0%

OCTOBER 25

Mirror date: February 15
 Analysis hours: 7:30 AM-4:18 PM (PST)

Analysis Time	EXISTING SHADOW ON REAR YARD			588 2ND STREET NET NEW SHADOW ON REAR YARD		
	Shadow Area (sf)	Area/Time (sfn)	Coverage	Shadow Area (sf)	Area/Time (sfn)	Coverage
7:30 AM	953.26	123.92	100.0%	0.00	0.00	0.0%
7:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:15 AM	949.53	237.38	99.6%	0.00	0.00	0.0%
9:30 AM	937.90	234.47	98.4%	0.00	0.00	0.0%
9:45 AM	924.78	231.20	97.0%	0.00	0.00	0.0%
10:00 AM	911.15	227.79	95.6%	0.00	0.00	0.0%
10:15 AM	897.15	224.29	94.1%	0.00	0.00	0.0%
10:30 AM	882.40	220.60	92.6%	0.00	0.00	0.0%
10:45 AM	867.83	216.96	91.0%	0.00	0.00	0.0%
11:00 AM	852.57	213.14	89.4%	0.00	0.00	0.0%
11:15 AM	838.71	209.68	88.0%	0.00	0.00	0.0%
11:30 AM	823.92	205.98	86.4%	0.00	0.00	0.0%
11:45 AM	811.01	202.75	85.1%	0.00	0.00	0.0%
12:00 PM	835.92	208.98	87.7%	0.00	0.00	0.0%
12:15 PM	871.72	217.93	91.4%	0.00	0.00	0.0%
12:30 PM	907.34	226.84	95.2%	0.00	0.00	0.0%
12:45 PM	943.62	235.90	99.0%	0.00	0.00	0.0%
1:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
1:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
1:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
1:45 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
2:00 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
2:30 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:45 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:00 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
3:15 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
3:30 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
3:45 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
4:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
4:15 PM	953.25	142.99	100.0%	0.00	0.00	0.0%
4:18 PM	953.26	28.60	100.0%	0.00	0.00	0.0%

NOVEMBER 1

Mirror date: February 8
 Analysis hours: 7:36 AM-4:10 PM (PST)

Analysis Time	EXISTING SHADOW ON REAR YARD			588 2ND STREET NET NEW SHADOW ON REAR YARD		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:36 AM	953.26	66.73	100.0%	0.00	0.00	0.0%
7:45 AM	953.26	181.12	100.0%	0.00	0.00	0.0%
8:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:15 AM	947.62	236.90	99.4%	0.00	0.00	0.0%
9:30 AM	938.48	234.62	98.4%	0.00	0.00	0.0%
9:45 AM	928.03	232.01	97.4%	0.00	0.00	0.0%
10:00 AM	916.19	229.05	96.1%	0.00	0.00	0.0%
10:15 AM	904.39	226.10	94.9%	0.00	0.00	0.0%
10:30 AM	891.10	222.77	93.5%	0.00	0.00	0.0%
10:45 AM	878.41	219.60	92.1%	0.00	0.00	0.0%
11:00 AM	864.73	216.18	90.7%	0.00	0.00	0.0%
11:15 AM	852.72	213.18	89.5%	0.00	0.00	0.0%
11:30 AM	839.60	209.90	88.1%	0.00	0.00	0.0%
11:45 AM	828.60	207.15	86.9%	0.00	0.00	0.0%
12:00 PM	851.61	212.90	89.3%	0.00	0.00	0.0%
12:15 PM	882.28	220.57	92.6%	0.00	0.00	0.0%
12:30 PM	912.74	228.19	95.7%	0.00	0.00	0.0%
12:45 PM	943.72	235.93	99.0%	0.00	0.00	0.0%
1:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
1:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
1:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
1:45 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:00 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:15 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:30 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:45 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:00 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
3:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:45 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
4:00 PM	953.26	200.18	100.0%	0.00	0.00	0.0%
4:10 PM	953.26	85.79	100.0%	0.00	0.00	0.0%

NOVEMBER 8

Mirror date: February 1
 Analysis hours: 7:43 AM-4:03 PM (PST)

Analysis Time	EXISTING SHADOW ON REAR YARD			588 2ND STREET NET NEW SHADOW ON REAR YARD		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:43 AM	953.26	9.53	100.0%	0.00	0.00	0.0%
7:45 AM	953.26	123.92	100.0%	0.00	0.00	0.0%
8:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:00 AM	952.96	238.24	100.0%	0.00	0.00	0.0%
9:15 AM	949.11	237.28	99.6%	0.00	0.00	0.0%
9:30 AM	942.01	235.50	98.8%	0.00	0.00	0.0%
9:45 AM	933.72	233.43	97.9%	0.00	0.00	0.0%
10:00 AM	923.72	230.93	96.9%	0.00	0.00	0.0%
10:15 AM	913.36	228.34	95.8%	0.00	0.00	0.0%
10:30 AM	901.69	225.42	94.6%	0.00	0.00	0.0%
10:45 AM	890.56	222.64	93.4%	0.00	0.00	0.0%
11:00 AM	878.22	219.55	92.1%	0.00	0.00	0.0%
11:15 AM	867.78	216.94	91.0%	0.00	0.00	0.0%
11:30 AM	856.17	214.04	89.8%	0.00	0.00	0.0%
11:45 AM	846.72	211.68	88.8%	0.00	0.00	0.0%
12:00 PM	865.91	216.48	90.8%	0.00	0.00	0.0%
12:15 PM	891.72	222.93	93.5%	0.00	0.00	0.0%
12:30 PM	917.10	229.27	96.2%	0.00	0.00	0.0%
12:45 PM	943.10	235.77	98.9%	0.00	0.00	0.0%
1:00 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
1:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
1:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
1:45 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:00 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:15 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:30 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:45 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
3:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:15 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
3:30 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
3:45 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
4:00 PM	953.25	142.99	100.0%	0.00	0.00	0.0%
4:03 PM	953.25	28.60	100.0%	0.00	0.00	0.0%

NOVEMBER 15

Mirror date: January 25
 Analysis hours: 7:51 AM-3:57 PM (PST)

Analysis Time	EXISTING SHADOW ON REAR YARD			588 2ND STREET NET NEW SHADOW ON REAR YARD		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:51 AM	953.26	76.26	100.0%	0.00	0.00	0.0%
8:00 AM	953.26	190.65	100.0%	0.00	0.00	0.0%
8:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:15 AM	953.09	238.27	100.0%	0.00	0.00	0.0%
9:30 AM	947.73	236.93	99.4%	0.00	0.00	0.0%
9:45 AM	941.28	235.32	98.7%	0.00	0.00	0.0%
10:00 AM	932.37	233.09	97.8%	0.00	0.00	0.0%
10:15 AM	923.92	230.98	96.9%	0.00	0.00	0.0%
10:30 AM	913.07	228.27	95.8%	0.00	0.00	0.0%
10:45 AM	903.46	225.86	94.8%	0.00	0.00	0.0%
11:00 AM	892.23	223.06	93.6%	0.00	0.00	0.0%
11:15 AM	883.17	220.79	92.6%	0.00	0.00	0.0%
11:30 AM	872.69	218.17	91.5%	0.00	0.00	0.0%
11:45 AM	864.77	216.19	90.7%	0.00	0.00	0.0%
12:00 PM	878.81	219.70	92.2%	0.00	0.00	0.0%
12:15 PM	900.23	225.06	94.4%	0.00	0.00	0.0%
12:30 PM	921.06	230.26	96.6%	0.00	0.00	0.0%
12:45 PM	942.61	235.65	98.9%	0.00	0.00	0.0%
1:00 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
1:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
1:30 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
1:45 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:00 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:15 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
2:45 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:15 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
3:30 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
3:45 PM	953.25	219.25	100.0%	0.00	0.00	0.0%
3:57 PM	953.25	104.86	100.0%	0.00	0.00	0.0%

NOVEMBER 22

Mirror date: January 18
 Analysis hours: 7:57 AM-3:54 PM (PST)

Analysis Time	EXISTING SHADOW ON REAR YARD			588 2ND STREET NET NEW SHADOW ON REAR YARD		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
7:57 AM	953.26	19.07	100.0%	0.00	0.00	0.0%
8:00 AM	953.26	142.99	100.0%	0.00	0.00	0.0%
8:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:45 AM	949.44	237.36	99.6%	0.00	0.00	0.0%
10:00 AM	941.87	235.47	98.8%	0.00	0.00	0.0%
10:15 AM	934.43	233.61	98.0%	0.00	0.00	0.0%
10:30 AM	924.92	231.23	97.0%	0.00	0.00	0.0%
10:45 AM	916.31	229.08	96.1%	0.00	0.00	0.0%
11:00 AM	905.96	226.49	95.0%	0.00	0.00	0.0%
11:15 AM	897.89	224.47	94.2%	0.00	0.00	0.0%
11:30 AM	888.38	222.10	93.2%	0.00	0.00	0.0%
11:45 AM	881.74	220.43	92.5%	0.00	0.00	0.0%
12:00 PM	890.36	222.59	93.4%	0.00	0.00	0.0%
12:15 PM	907.80	226.95	95.2%	0.00	0.00	0.0%
12:30 PM	924.53	231.13	97.0%	0.00	0.00	0.0%
12:45 PM	942.21	235.55	98.8%	0.00	0.00	0.0%
1:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
1:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
1:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
1:45 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
2:15 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
2:45 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:30 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
3:45 PM	953.25	190.65	100.0%	0.00	0.00	0.0%
3:54 PM	953.25	76.26	100.0%	0.00	0.00	0.0%

NOVEMBER 29

Mirror date: January 11
 Analysis hours: 8:04 AM-3:51 PM (PST)

Analysis Time	EXISTING SHADOW ON REAR YARD			588 2ND STREET NET NEW SHADOW ON REAR YARD		
	Shadow Area (sf)	Area/Time (sfn)	Coverage	Shadow Area (sf)	Area/Time (sfn)	Coverage
8:04 AM	953.26	85.79	100.0%	0.00	0.00	0.0%
8:15 AM	953.26	200.18	100.0%	0.00	0.00	0.0%
8:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:00 AM	951.31	237.83	99.8%	0.00	0.00	0.0%
10:15 AM	944.38	236.10	99.1%	0.00	0.00	0.0%
10:30 AM	935.83	233.96	98.2%	0.00	0.00	0.0%
10:45 AM	928.06	232.01	97.4%	0.00	0.00	0.0%
11:00 AM	918.38	229.60	96.3%	0.00	0.00	0.0%
11:15 AM	911.08	227.77	95.6%	0.00	0.00	0.0%
11:30 AM	902.27	225.57	94.7%	0.00	0.00	0.0%
11:45 AM	896.71	224.18	94.1%	0.00	0.00	0.0%
12:00 PM	898.44	224.61	94.2%	0.00	0.00	0.0%
12:15 PM	913.53	228.38	95.8%	0.00	0.00	0.0%
12:30 PM	927.57	231.89	97.3%	0.00	0.00	0.0%
12:45 PM	942.04	235.51	98.8%	0.00	0.00	0.0%
1:00 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
1:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
1:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
1:45 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
2:00 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:15 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
2:45 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
3:00 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
3:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:30 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
3:45 PM	953.26	171.59	100.0%	0.00	0.00	0.0%
3:51 PM	953.25	47.66	100.0%	0.00	0.00	0.0%

DECEMBER 6

Mirror date: January 4

Analysis hours: 8:10 AM-3:51 PM (PST)

Analysis Time	EXISTING SHADOW ON REAR YARD			588 2ND STREET NET NEW SHADOW ON REAR YARD		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
8:10 AM	953.26	38.13	100.0%	0.00	0.00	0.0%
8:15 AM	953.26	162.05	100.0%	0.00	0.00	0.0%
8:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:15 AM	952.85	238.21	100.0%	0.00	0.00	0.0%
10:30 AM	944.83	236.21	99.1%	0.00	0.00	0.0%
10:45 AM	937.86	234.47	98.4%	0.00	0.00	0.0%
11:00 AM	928.72	232.18	97.4%	0.00	0.00	0.0%
11:15 AM	921.94	230.48	96.7%	0.00	0.00	0.0%
11:30 AM	913.44	228.36	95.8%	0.00	0.00	0.0%
11:45 AM	908.15	227.04	95.3%	0.00	0.00	0.0%
12:00 PM	908.23	227.06	95.3%	0.00	0.00	0.0%
12:15 PM	919.51	229.88	96.5%	0.00	0.00	0.0%
12:30 PM	930.01	232.50	97.6%	0.00	0.00	0.0%
12:45 PM	941.94	235.49	98.8%	0.00	0.00	0.0%
1:00 PM	952.70	238.18	99.9%	0.00	0.00	0.0%
1:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
1:30 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
1:45 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
2:00 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:15 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:30 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:45 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
3:00 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
3:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:45 PM	953.25	162.05	100.0%	0.00	0.00	0.0%
3:51 PM	953.25	47.66	100.0%	0.00	0.00	0.0%

DECEMBER 13

Mirror date: December 28

Analysis hours: 8:15 AM-3:52 PM (PST)

Analysis Time	EXISTING SHADOW ON REAR YARD			588 2ND STREET NET NEW SHADOW ON REAR YARD		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
8:15 AM	953.26	114.39	100.0%	0.00	0.00	0.0%
8:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
8:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:30 AM	951.39	237.85	99.8%	0.00	0.00	0.0%
10:45 AM	944.84	236.21	99.1%	0.00	0.00	0.0%
11:00 AM	936.12	234.03	98.2%	0.00	0.00	0.0%
11:15 AM	929.51	232.38	97.5%	0.00	0.00	0.0%
11:30 AM	921.38	230.35	96.7%	0.00	0.00	0.0%
11:45 AM	916.34	229.09	96.1%	0.00	0.00	0.0%
12:00 PM	912.72	228.18	95.7%	0.00	0.00	0.0%
12:15 PM	922.17	230.54	96.7%	0.00	0.00	0.0%
12:30 PM	931.06	232.77	97.7%	0.00	0.00	0.0%
12:45 PM	941.59	235.40	98.8%	0.00	0.00	0.0%
1:00 PM	950.91	237.73	99.8%	0.00	0.00	0.0%
1:15 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
1:30 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
1:45 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:00 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:15 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:30 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:45 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
3:00 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
3:15 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
3:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:45 PM	953.25	171.59	100.0%	0.00	0.00	0.0%
3:52 PM	953.25	57.20	100.0%	0.00	0.00	0.0%

DECEMBER 20

Winter solstice (December 21 similar)

Analysis hours: 8:19 AM-3:54 PM (PST)

Analysis Time	EXISTING SHADOW ON REAR YARD			588 2ND STREET NET NEW SHADOW ON REAR YARD		
	Shadow Area (sf)	Area/Time (sfh)	Coverage	Shadow Area (sf)	Area/Time (sfh)	Coverage
8:19 AM	953.26	76.26	100.0%	0.00	0.00	0.0%
8:30 AM	953.26	200.18	100.0%	0.00	0.00	0.0%
8:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:30 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
9:45 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:00 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:15 AM	953.26	238.31	100.0%	0.00	0.00	0.0%
10:30 AM	953.25	238.31	100.0%	0.00	0.00	0.0%
10:45 AM	948.60	237.15	99.5%	0.00	0.00	0.0%
11:00 AM	939.91	234.98	98.6%	0.00	0.00	0.0%
11:15 AM	933.50	233.38	97.9%	0.00	0.00	0.0%
11:30 AM	925.41	231.35	97.1%	0.00	0.00	0.0%
11:45 AM	920.20	230.05	96.5%	0.00	0.00	0.0%
12:00 PM	913.77	228.44	95.9%	0.00	0.00	0.0%
12:15 PM	922.37	230.59	96.8%	0.00	0.00	0.0%
12:30 PM	930.32	232.58	97.6%	0.00	0.00	0.0%
12:45 PM	940.31	235.08	98.6%	0.00	0.00	0.0%
1:00 PM	949.13	237.28	99.6%	0.00	0.00	0.0%
1:15 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
1:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
1:45 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:00 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:15 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:30 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
2:45 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:00 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:15 PM	953.25	238.31	100.0%	0.00	0.00	0.0%
3:30 PM	953.26	238.31	100.0%	0.00	0.00	0.0%
3:45 PM	953.26	200.18	100.0%	0.00	0.00	0.0%
3:54 PM	953.25	76.26	100.0%	0.00	0.00	0.0%

EXHIBIT E: APPELLANT SHADOW STUDY

Summary of Azimuths and angles between 588 2nd Ave and 590 2nd Ave derived from drawings

Web site used to find Azimuth and Declination of Sun every minute of every day when sun is obstructed by screen

<https://www.esrl.noaa.gov/gmd/grad/solcalc/azel.html>

Azimuths based on 2nd avenue bearing 170d	Azimuth	minimum elevation
SE corner of 41' roof to SE corner of lightwell	126	
SE corner of E building to NW corner of garden	132	
SE corner of 41' roof and NE corner of 41' roof at lightwell	134	
SE corner of E building and NE corner of 41' roof of 590 2nd Ave	140	
SE corner of 41' roof and NE corner of kitchen deck	140	
SE corner of lightwell (41' h) to SW corner of garden	156	
NS building line	170	
SW corner of lightwell (41' h) to E edge of sunroom (21' h)	215	
SW corner of lightwell (41' h) to SE corner of lightwell (12' h)	245	

morning sun across 12' high deck east end of 590 2nd Avd	140-170	25
not affected by any screens		
morning sun across 41' high roof east of lightwell	140-170	59
not affected by any screens		
morning sun on deck off family room without screen	110-170	60
morning sun on deck off family room with screen	110-170	63
afternoon sun on deck off family room without screen	160-215	60
afternoon sun on deck off family room with screen	160-215	63
afternoon sun across lightwell on garden without screen	175-230	54
afternoon sun across lightwell on garden with screen	175-230	58
morning sun on 3rd flr deck (21') without screen across lightwell	126-170	35-50
morning sun on 3rd flr deck (21') with screen across lightwell	139-170	40-55

when the sun is 160 to 180, the east screen is between the sun and a point 25' north of property line and 9 feet west of property line
 the angle between the roof and north edge of our backyard is 59 degrees, will increase to 62 degrees with screen
[the angle between roof at lightwell setback and north edge of 588 is 52d](#)
 the angle between the roof at lightwell and floor of lightwell at east end is about 45d
 the angle between sun and north endge of our yard is 45%, azimuth between 128 and 187

Date	time	Azimuth	Elevation	140-170	az 128-245
2/1/2020	8	124	124	5 no	
	9	134	134	14 no	
	10	147	147	22 no	
	11	161	161	27 no	
	12	176	176	29 no	
	13	192	192	28	
	14	206	206	24	
	15	220	220	18	
	16	231	231	9	
	17	240	240	0	
	8	118	118	7	
	9	129	129	17	
	10	142	142	26	
	11	156	156	32 no sun	
12	173	173	35		
13	191	191	35		
14	207	207	31		

3/1/2020

15	221	24	
16	233	15	
17	244	5	
8	111	14	
9	122	25	
10	136	34	loose sun on upper deck with screen

4/1/2020

11	153	41	
12	172	45	
13	193	44	
14	212	40	
15	228	32	
16	241	22	
17	252	12	
18	261	0	
7	93	12	
8	103	24	
9	114	35	
10	129	45	
11	149	53	
12	174	57	Garden will lose afternoon sun with screen
13	201	56	Garden will lose afternoon sun with screen
14	223	49	

5/1/2020

15	240	40	
16	252	29	
17	263	18	
18	272	6	
7	86	20	
8	95	32	
9	106	43	
10	120	54	
11	142	63	sun
12	176	68	
13	211	65	
14	236	56	
15	252	46	
16	263	34	
17	273	22	
18	281	11	
7	79	23	
8	88	35	
9	98	47	
10	110	56	
11	132	69	

6/1/2020

10	110	56	
11	132	69	

7/1/2020

12	173	74
13	220	71
14	245	61
15	260	50
16	270	38
17	279	26
18	287	15
7	78	23
8	86	34
9	95	46
10	108	58
11	128	68 sun
12	168	75
13	217	72
14	245	63
15	260	52
16	270	40
17	279	28
18	287	16

FAMILY ROOM DECK SHADING Calculations

Shading of 588 2nd Ave Family room decks and back yard by the cell antennas on 590

all times are PST, no adjustmet for daylight savings time

Double the calculated times to include time between summer solstice and Dec 31

January 1 to June 20 (summer solstice)

Radio screen between family room deck and sun from azimuth (compass direction) 110-215 (90 is east and 180 is south)

From east to west sextant measurements at various locations on deck range from 63-52 at 4 feet above deck.

Based on my drawing of a north-south elevation section, I estimate the screen will raise these angles about 5 degrees.

Results below show shadowing between April 17 and August 15, for a total of 128 days, the screen will shade the family room deck between 10:30am and 1pm

During that time frame the sun shines an average 67 minutes a day during that time, ranging from 20 minutes when sun is low to 149 minutes when the sun is higher

The screen will eliminate sun on 34 days when the sun is lower

The shadowing will decrease sunlight from 143 hours to 86 hours, a reduction of 40%

date	Elev at Az 110	and 12:11	Elev at Az 215	time at Az 110	minutes between Az 110-215	start time El 63	Az reach 68	back down to 68	end time El 63 or Az 215	time shaded by screen El 63-68	Time bet		REDUCT ION %
											Az 110-215 not shaded by have screen	Total time it would have shined	
4/11/2020	37.0	60.9	8:53	13:25	272 does not	does not	does not	does not	12:40	#VALUE!	0	#VALUE!	0%
4/12/2020	37.4	61.3	8:54	13:24	270 does not	does not	does not	does not	12:49	#VALUE!	0	#VALUE!	0%
4/13/2020	37.9	61.7	8:55	13:23	268 does not	does not	does not	does not	12:54	#VALUE!	0	#VALUE!	0%
4/14/2020	38.6	62.0	8:57	13:22	265 does not	does not	does not	does not	12:58	#VALUE!	0	#VALUE!	0%
4/15/2020	38.8	62.4	8:57	13:21	264 does not	does not	does not	does not	13:02	#VALUE!	0	#VALUE!	0%
4/16/2020	39.5	62.7	8:59	13:20	261 does not	does not	does not	does not	13:05	#VALUE!	0	#VALUE!	0%
4/17/2020	40.1	63.1	9:01	13:19	258	175	11:59	does not	12:19	20	0	20	100%
4/18/2020	40.6	63.4	9:02	13:18	256	168	11:47	does not	12:31	44	0	44	100%
4/19/2020	41.2	63.8	9:04	13:18	254	164	11:40	does not	12:38	58	0	58	100%
4/20/2020	41.8	64.1	9:06	13:17	251	161	11:34	does not	12:43	69	0	69	100%
4/21/2020	42.3	64.5	9:07	13:16	249	161	11:30	does not	12:47	77	0	77	100%
4/22/2020	42.7	64.8	9:08	13:15	247	161	11:26	does not	12:50	84	0	84	100%
4/23/2020	43.4	65.1	9:10	13:14	244	161	11:21	does not	12:54	93	0	93	100%
4/24/2020	43.8	65.5	9:11	13:13	242	161	11:17	does not	12:57	100	0	100	100%
4/25/2020	44.2	65.8	9:12	13:12	240	150	11:14	does not	13:01	107	0	107	100%
4/26/2020	44.8	66.1	9:14	13:11	237	150	11:11	does not	13:02	111	0	111	100%

4/27/2020	45.2	66.4	9:15	13:11	236		11:08	does not	does not	13:03	115	0	115	100%
4/28/2020	45.6	66.7	9:16	13:10	234	146	11:06	does not	does not	13:04	118	0	118	100%
4/29/2020	46.2	67.0	9:18	13:09	231		11:03	does not	does not	13:05	122	0	122	100%
4/30/2020	46.6	67.3	9:19	13:08	229		11:00	does not	does not	13:06	126	0	126	100%
5/1/2020	47.2	67.6	9:21	13:08	227	141	10:58	does not	does not	13:07	129	0	129	100%
5/2/2020	47.6	67.9	9:22	13:07	225	140	10:56	does not	does not	13:06	130	0	130	100%
5/3/2020	48.0	68.2	9:23	13:06	223		10:54	11:52	12:21	13:06	103	29	132	78%
5/4/2020	48.6	68.5	9:25	13:05	220		10:52	11:46	12:27	13:05	92	41	133	69%
5/5/2020	49.1	68.8	9:27	13:04	217	136	10:50	11:40	12:33	13:04	81	53	134	60%
5/6/2020	49.5	69.1	9:28	13:04	216		10:49	11:37	12:36	13:04	76	59	135	56%
5/7/2020	49.9	69.3	9:29	13:03	214		10:47	11:33	12:39	13:03	70	66	136	51%
5/8/2020	50.3	69.6	9:30	13:02	212		10:46	11:29	12:43	13:02	62	74	136	46%
5/9/2020	50.8	69.9	9:32	13:02	210	133	10:44	11:26	12:46	13:02	58	80	138	42%
5/10/2020	51.2	70.1	9:33	13:01	208	132	10:43	11:23	12:49	13:01	52	86	138	38%
5/11/2020	51.5	70.4	9:34	13:00	206		10:42	11:20	12:52	13:00	46	92	138	33%
5/12/2020	52.0	70.6	9:36	13:00	204		10:41	11:18	12:54	13:00	43	96	139	31%
5/13/2020	52.4	70.9	9:37	12:59	202		10:40	11:16	12:56	12:59	39	100	139	28%
5/14/2020	52.7	71.1	9:38	12:59	201		10:39	11:14	12:58	12:59	36	104	140	26%
5/15/2020	53.0		9:39	12:58	199		10:38	11:12	12:58	13:00	36	106	142	25%
5/16/2020	53.5		9:41	12:58	197		10:37	11:11	12:58	12:58	34	107	141	24%
5/17/2020	53.9	71.8	9:42	12:57	195		10:36	11:09	12:57	12:57	33	108	141	23%
5/18/2020	54.2		9:43	12:57	194		10:35	11:08	12:57	12:57	33	109	142	23%
5/19/2020	54.5		9:44	12:56	192		10:34	11:07	12:56	12:56	33	109	142	23%
5/20/2020	54.8	72.4	9:45	12:56	191	124	10:32	11:06	12:56	12:56	34	110	144	24%
5/21/2020	55.1		9:46	12:56	190	123	10:31	11:04	12:56	12:56	33	112	145	23%
5/22/2020	55.2		9:46	12:55	189		10:30	11:03	12:55	12:55	33	112	145	23%
5/23/2020	55.8		9:49	12:55	186		10:30	11:02	12:55	12:55	32	113	145	22%
5/24/2020	56.1		9:50	12:54	184		10:29	11:01	12:54	12:54	32	113	145	22%
5/25/2020	56.4	73.4	9:51	12:54	183	121	10:28	11:00	12:54	12:54	32	114	146	22%
5/26/2020	56.6		9:52	12:54	182		10:28	11:00	12:54	12:54	32	114	146	22%
5/27/2020	56.9		9:53	12:54	181		10:27	10:59	12:54	12:54	32	115	147	22%
5/28/2020	57.2		9:54	12:54	180		10:27	10:59	12:54	12:54	32	115	147	22%
5/29/2020	57.4		9:55	12:53	178		10:26	10:58	12:53	12:53	32	115	147	22%

5/30/2020	57.7	74.2		9:56	12:53	177		10:26	10:57	12:53	12:53	31	116	147	21%
5/31/2020	57.9			9:57	12:53	176	118	10:25	10:56	12:53	12:53	31	117	148	21%
6/1/2020	58.1		71.6	9:58	12:53	175		10:25	10:56	12:53	12:53	31	117	148	21%
6/2/2020	58.4			9:59	12:53	174		10:25	10:55	12:53	12:53	30	118	148	20%
6/3/2020	58.6			10:00	12:53	173		10:25	10:55	12:53	12:53	30	118	148	20%
6/4/2020				10:01	12:53	172		10:24	10:55	12:53	12:53	31	118	149	21%
6/5/2020				10:02	12:52	170		10:24	10:54	12:52	12:52	30	118	148	20%
6/6/2020				10:02	12:52	170		10:24	10:54	12:52	12:52	30	118	148	20%
6/7/2020				10:03	12:52	169		10:24	10:54	12:52	12:52	30	118	148	20%
6/8/2020				10:04	12:52	168		10:23	10:53	12:52	12:52	30	119	149	20%
6/9/2020				10:04	12:52	168		10:23	10:53	12:52	12:52	30	119	149	20%
6/10/2020	59.7	75.3	72.7	10:05	12:52	167	115	10:23	10:53	12:52	12:52	30	119	149	20%
6/11/2020				10:05	12:52	167		10:23	10:53	12:52	12:52	30	119	149	20%
6/12/2020				10:06	12:52	166		10:23	10:53	12:52	12:52	30	119	149	20%
6/13/2020				10:07	12:52	165		10:23	10:53	12:52	12:52	30	119	149	20%
6/14/2020				10:07	12:52	165		10:23	10:53	12:52	12:52	30	119	149	20%
6/15/2020	60.2		72.9	10:08	12:52	164		10:24	10:53	12:52	12:52	29	119	148	20%
6/16/2020				10:08	12:53	165		10:24	10:53	12:53	12:53	29	120	149	19%
6/17/2020				10:08	12:53	165		10:24	10:53	12:53	12:53	29	120	149	19%
6/18/2020				10:09	12:53	164		10:24	10:53	12:53	12:53	29	120	149	19%
6/19/2020				10:09	12:53	164		10:24	10:53	12:53	12:53	29	120	149	19%
6/20/2020	60.4	75.7	73.1	10:10	12:53	163		10:24	10:53	12:53	12:53	29	120	149	19%
												3412	5162	8574	
												57	86	143	40%

UPPER DECK calculations when sun over south building stairwell

The screen will affect the upper deck between azimuth 140 and 215 AFTER WHICH TIME IT PASSES BEHIND OUR HOUSE
 I used my sextant to measure the angle between 4' above the deck (eye while sitting) to roof line in that direction
 Depending on location on the deck, Angle to roof in direction of screen ranges from 29-42 earlier in the day and 27-40 later in the day
 Decided to use an average of 35 degrees for calculations
 Based on my drawing of a north-south elevation section, I estimate the screen will raise these angles about 5 degrees.
 Based on the following calculations, between 2/1/20 and 3/8/20, 38 days,
 The screen will obstruct the sun for 60 out of 123 hours, an average of 94 minutes (49%) during that time
 This will be duplicated approximately between October 1 and November 10

date	LAN Elev bet		Elev at Az 215	time at Az		minutes between Az 140-215	Az at El 35 El 35 does not reach Az 35	start time El 35	later of AZ140 or El 35	Az reach El 40	Az back down to 40	end time El 35 or Az215	time shaded by screen El 35-40	Time bet Az 140-215 not shaded by screen	Total time it would have shined	% REDUCTION	
	Elev at Az 140	12:20 and 215		140	215												
1/31/2020																	
2/1/2020	25.0		27.7	9:53	14:31	278	171	11:53	11:53	does not	does not	12:41	48	0	48	100%	
2/2/2020							171	11:52	11:52	does not	does not	12:55	63	0	63		
2/3/2020								11:45	11:45	does not	does not	13:02	77	0	77		
2/4/2020	25.8			9:55	14:30		167	11:38	11:38	does not	does not	13:09	91	0	91		
2/5/2020										does not	does not		101	0	101		
2/6/2020										does not	does not		111	0	111		
2/7/2020										does not	does not		121	0	121		
2/8/2020										does not	does not		131	0	131		
2/9/2020										does not	does not		141	0	141		
2/10/2020				10:00	14:27			11:09	11:09	does not	does not	13:40	151	0	151		
2/11/2020										does not	does not		158	0	158		
2/12/2020										does not	does not		165	0	165		
2/13/2020										does not	does not		173	0	173		
2/14/2020										does not	does not		180	0	180		
2/15/2020										does not	does not		188	0	188		
2/16/2020	30.3			10:05	14:22	257	150	10:46	10:46	does not	does not	14:01	195	0	195	100%	
2/17/2020				10:06	14:21	255	149	10:43	10:43		12:01	12:47	14:04	155	46	201	77%
2/18/2020				10:07	14:20	253	148	10:40	10:40		11:50	12:57	14:07	140	67	207	68%
2/19/2020				10:08	14:19	251	147	10:37	10:37		11:41	13:05	14:10	129	84	213	61%
2/20/2020				10:09	14:18	249	147	10:34	10:34		11:35	13:12	14:13	122	97	219	56%
2/21/2020				10:09	14:17	248	146	10:32	10:32		11:28	13:19	14:16	113	111	224	50%
2/22/2020				10:10	14:16	246	145	10:28	10:28		11:21	13:24	14:18	107	123	230	47%
2/23/2020				10:11	14:15	244	144	10:25	10:25		11:18	13:29	14:16	100	131	231	43%
2/24/2020				10:12	14:14	242	143	10:23	10:23		11:13	13:34	14:15	91	141	232	39%
2/25/2020	34.2	43.2	36.5	10:13	14:14	241	142	10:20	10:20		11:09	13:39	14:14	84	150	234	36%
2/26/2020	34.6			10:13	14:13	240	142	10:16	10:16		11:04	13:41	14:13	80	157	237	34%
2/27/2020	35.0	33.9	37.3	10:14	14:12	238	141	10:14	10:14		10:59	13:45	14:12	72	166	238	30%
2/28/2020	35.5		37.8	10:15	14:11	236	139	10:11	10:15		10:55	13:49	14:11	62	174	236	26%
2/29/2020	35.9			10:15	14:10	235	138	10:08	10:15		10:51	13:52	14:10	54	181	235	23%
3/1/2020	36.3	45.1	38.6	10:16	14:09	233	137	10:06	10:16		10:48	13:56	14:09	45	188	233	19%
3/2/2020				10:16	14:08	232	136	10:04	10:16		10:45	13:59	14:08	38	194	232	16%
3/3/2020				10:17	14:07	230	135	10:01	10:17		10:41	14:02	14:07	29	201	230	13%
3/4/2020				10:18	14:06	228	134	9:58	10:18		10:38	14:05	14:06	21	207	228	9%
3/5/2020				10:18	14:05	227	133	9:58	10:18		10:37	14:07	14:05	19	210	229	8%
3/6/2020	38.6	47	40.8	10:20	14:04	224	133	9:54	10:20		10:32	14:10	14:04	12	218	230	5%
3/7/2020				10:20	14:03	223	132	9:51	10:20		10:28	14:13	14:03	8	225	233	3%
3/8/2020				10:21	14:02	221	132	9:49	10:21		10:25	14:16	14:02	4	231	235	2%
3/9/2020				10:20	14:01	221	131	9:47	10:20		10:22	14:19	14:01	2	237	239	1%
3/10/2020	40.0	48.6	42.5	10:19	14:00	221	130	9:44	10:19		10:19	14:21	14:00	0	242	242	0%
													3581	3781	7362	49%	minutes
													60	63	123		hours

GARDEN SHADING

afternoon sun across lightwell on garden without screen, starting at north edge of garden
afternoon sun across lightwell on garden with screen
Az far NE corner of yard elevation per elevation drawing from yard to roof at screen is 24d rising to 28d with screen
Az NW corner of yard elevation per elevation drawing from yard to roof at screen is 44 d rising to 48d with screen

Azimuth
175-230
175-230

these times are when the screen will completely obstruct sun from the garden, but without screen the garden has some sun, amount increasing as elevation increases

For 69 days before and after the winter solstice the screen will cast a shadow into the garden for a total of 138 days in the winter

At the solstice, when the sun is over or behind the screen, the direct sun is reduced by 50% from 2 hours to one hour a day

The amount of reduction gradually decreases to 0 over the 69 days.

A total of 45 hours lost or 25% of the total hours the sun is shining during this time now

this loss at the back of the garden.

The closer to the house the greater the effect of the screen

Table with columns: date, Elev at Az 175, Elev at Az 230, minutes between Az 175-230, time at Az 175, Time El < 44 and Az > 175, time El < 48 and Az > 175, Time El > 48 back to Az < 230 and Az > 175, Time El > 48 back to El 44 Az < 230 and Az > 175, Time El > 48 back to El 44 Az < 230 and Az > 175, Time above E24 and below El 48, Total time, % REDUCTION, Az at El 24, Az back down to 24, later of Az 230 or El 24, end time El 24 or Az230, time shaded by screen El 35-40, Total time it would have been shaded by screen, % REDUCTION.

on this date the sun never rises to 54 elevation

As the garden approaches the house towards the west, it gradually loses midday sun until the sun is higher in the sky near the west end of the backyard it is closer to the houses so it only gets sun when the sun is much higher from 44-48 degrees about 5 feet from the sunroom the sunroom obstructs the view of the west end of the lightwell and future screen
At this point, the sun must be 44 degrees high, or 48 if the screen is installed
Between Feb 28 and April 5 (38 days) and between Sept 3 and October 11 (38 days) the screen will reduce direct sun on this part of the garden
Direct sunlight will be reduced from 146 hours to 94 hours a reduction of 35%
This averages 42 minutes a day reduction during this time
For 20 days the direct sunlight will be reduced from an average on 1 hour to zero hours

Table with columns: date, Elev at Az 175, Elev at Az 230, minutes between Az 175-230, time at Az 175, Time El < 44 and Az > 175, time El < 48 and Az > 175, Time El > 48 back to Az < 230 and Az > 175, Time El > 48 back to El 44 Az < 230 and Az > 175, Time El > 48 back to El 44 Az < 230 and Az > 175, Time above E44 and below El 48, Total time, % REDUCTION.

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3/25/2020	12.04	12.04	12.04	12.04	13:53	14:23	14:33	109	30	139	22%
3/26/2020	12.04	12.04	12.04	12.04	13:56	14:25	14:31	112	29	141	21%
3/27/2020	12.03	12.03	12.03	12.03	13:58	14:27	14:30	115	29	144	20%
3/28/2020	12.03	12.03	12.03	12.03	14:00	14:20	14:28	117	29	146	20%
3/29/2020	12.03	12.03	12.03	12.03	14:03	14:27	14:27	120	24	144	17%
3/29/2020	12.03	12.03	12.03	12.03	14:04	14:26	14:26	121	22	143	15%
3/30/2020	12.03	12.03	12.03	12.03	14:05	14:25	14:25	122	20	142	14%
3/31/2020	12.03	12.03	12.03	12.03	14:07	14:24	14:24	124	17	141	12%
4/1/2020	12.02	12.02	12.02	12.02	14:09	14:23	14:23	127	14	141	10%
4/2/2020	12.02	12.02	12.02	12.02	14:11	14:21	14:21	129	10	139	7%
4/3/2020	12.02	12.02	12.02	12.02	14:12	14:20	14:20	130	8	138	6%
4/4/2020	12.02	12.02	12.02	12.02	14:14	14:18	14:18	132	4	136	3%
4/5/2020	12.02	12.02	12.02	12.02	14:16	14:17	14:17	134	1	135	1%
4/6/2020	12.01	12.01	12.01	12.01	12:01	12:01	14:15	0	0	0	NDIV/GI
								2840	1546	4386	
								47	26	73	35%

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