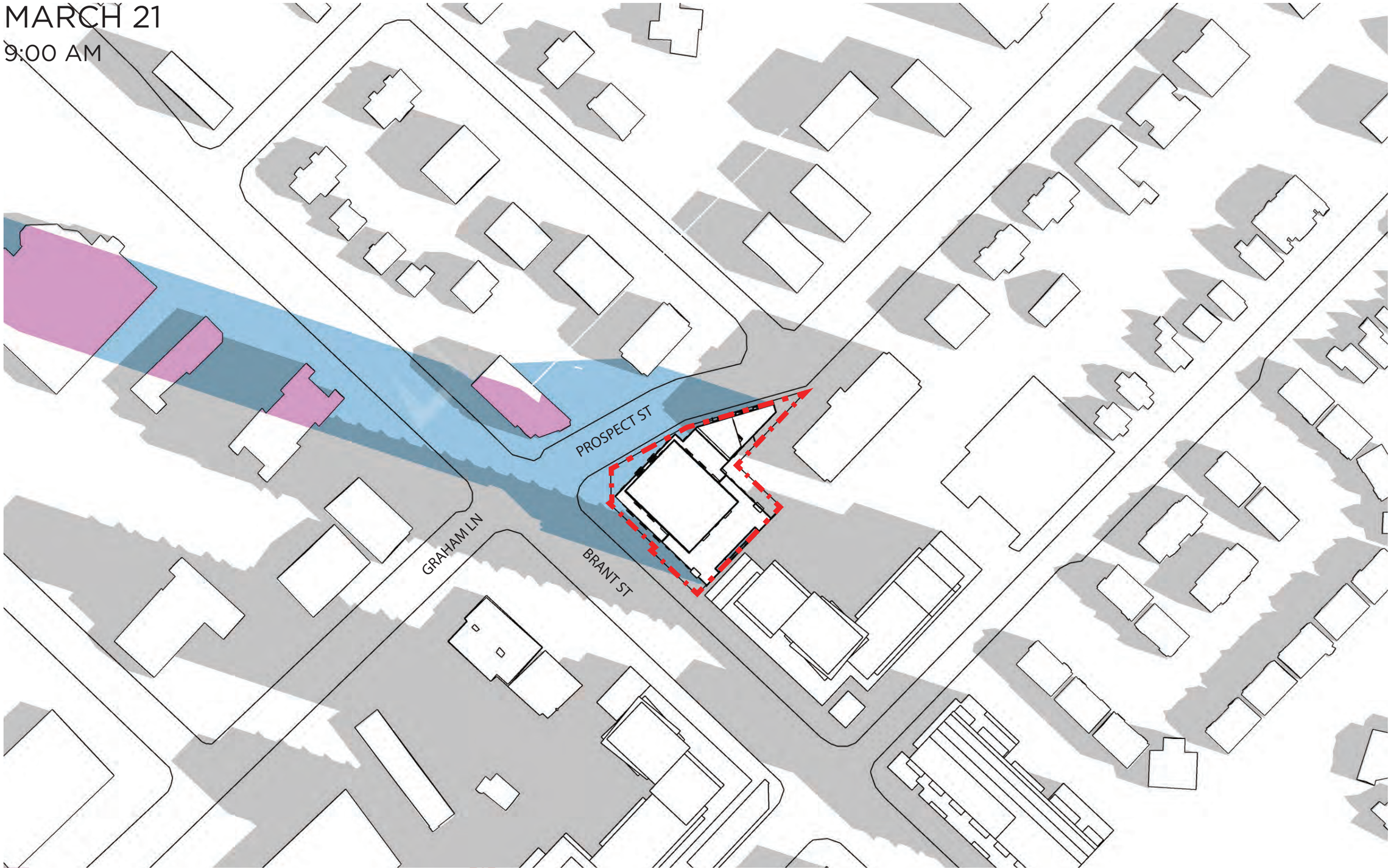
21001 - 795 BRANT

SHADOW STUDY
AUGUST 22 2022 | SCALE AS INDICATED

The proposed building at 795 Brant St, Burlington - and its resultant massing - fits all criteria with reference to the City's Shadow Impact Criteria. The specific points that relate to this site are as follows: Private Outdoor Amenity Spaces, and Public Realm and Sidewalks. There are private rear yards and rooftop patios to the South and East of the subject site, a public sidewalk/boulevard adjacent to Prospect St to the North of the site, and a public sidewalk/boulevard adjacent to Brant St to the West of the site. The proposed masing results in a calculated SAF of 0.741 for Rear Yards and 1.0 for Private Outdoor Amenity Spaces and Rooftop Patios which are well above the minimum requirement of 0.22. The proposed masing also results in a calculated SAF of 0.5 for Public Realm and Sidewalks onto Prospect St, which satisfies the requirement of 0.5. Finally, in terms of Public Realm and Sidewalks onto Brant St, the proposed massing exceeds the minimum requirement of 0.5 with a SAF of 0.635.

MARCH 21
9:00 AM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

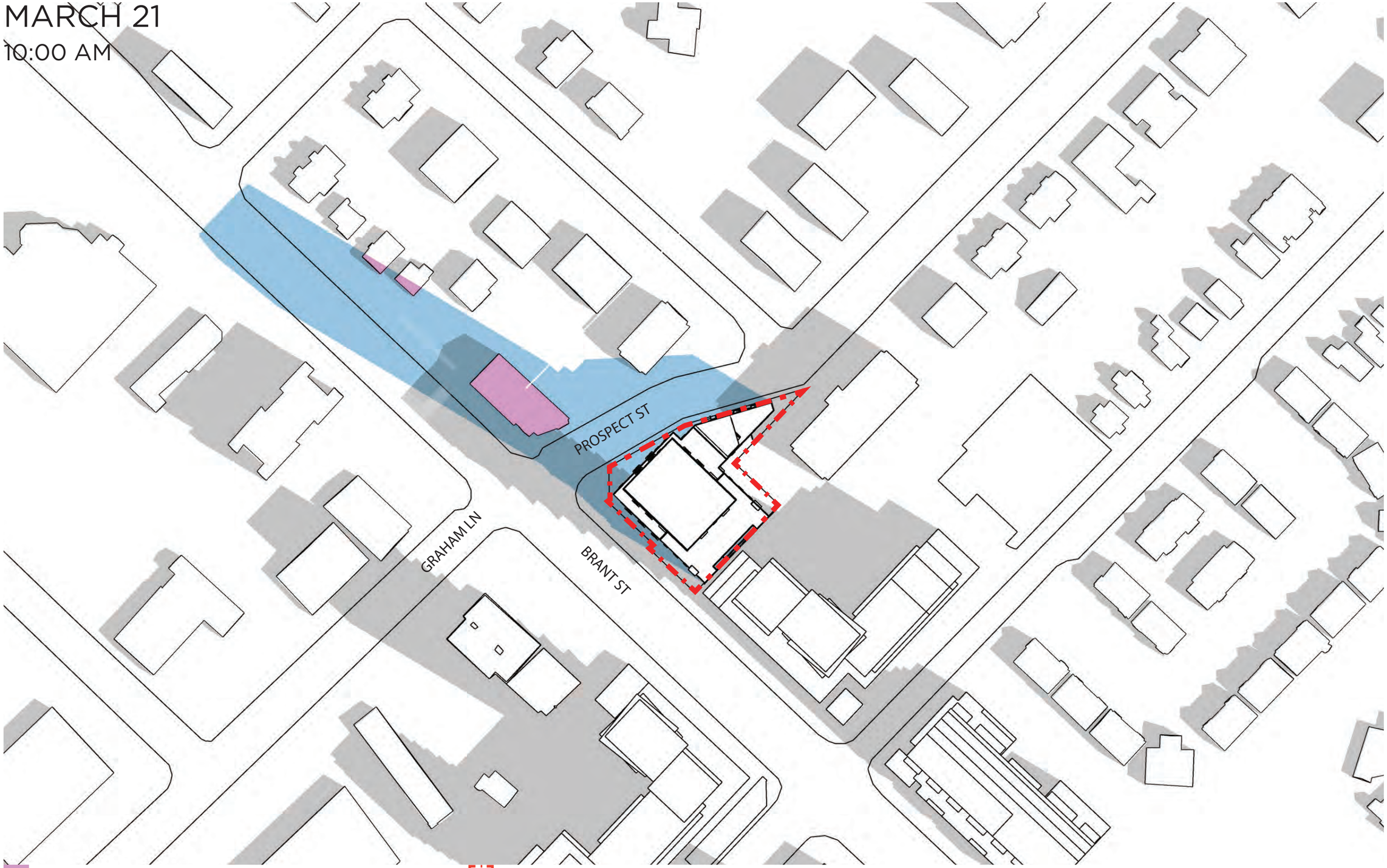
N

25 m 50 m 100 m

SCALE = 1:1650

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

MARCH 21
10:00 AM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

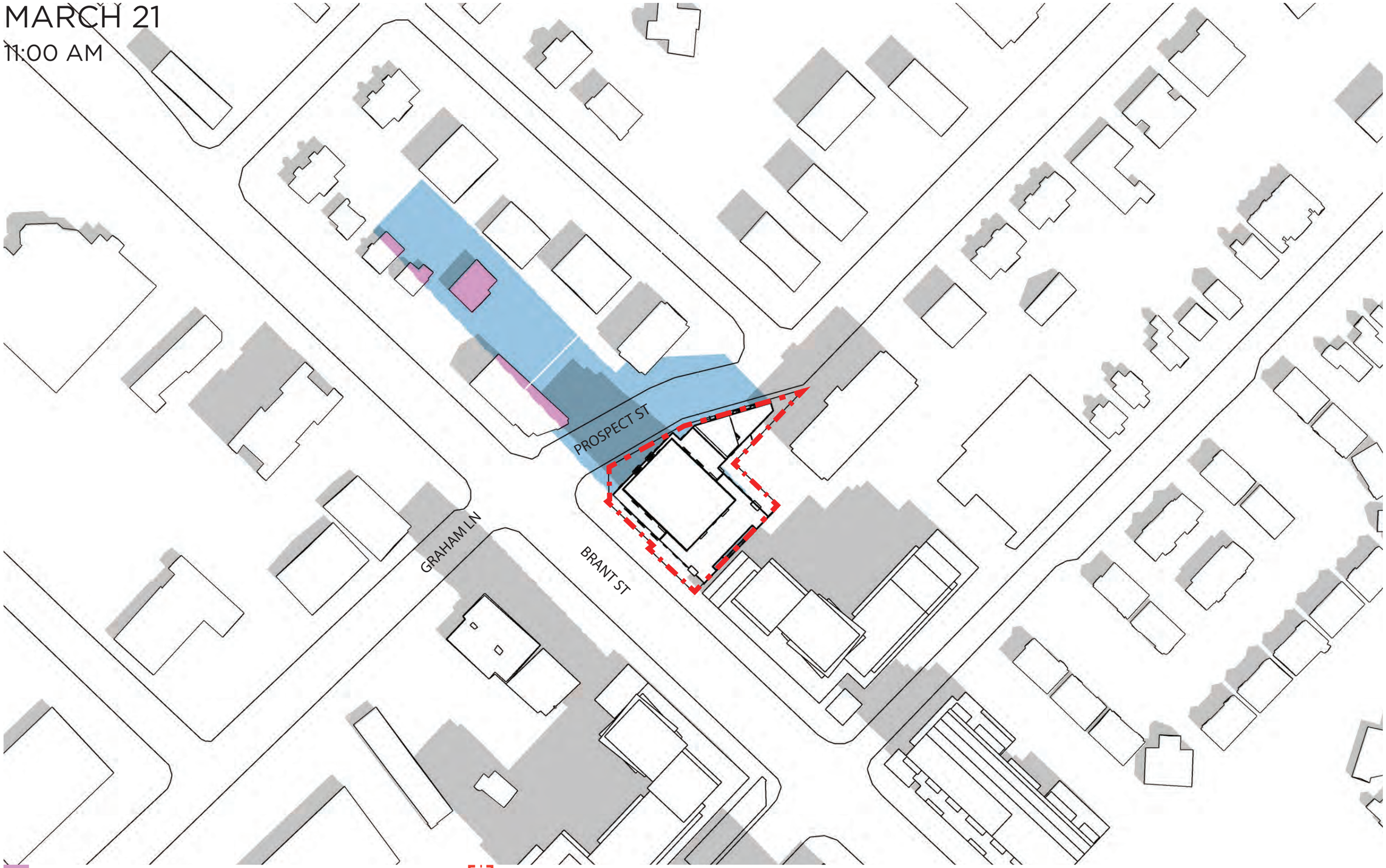
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SCALE = 1:1650

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

MARCH 21
11:00 AM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

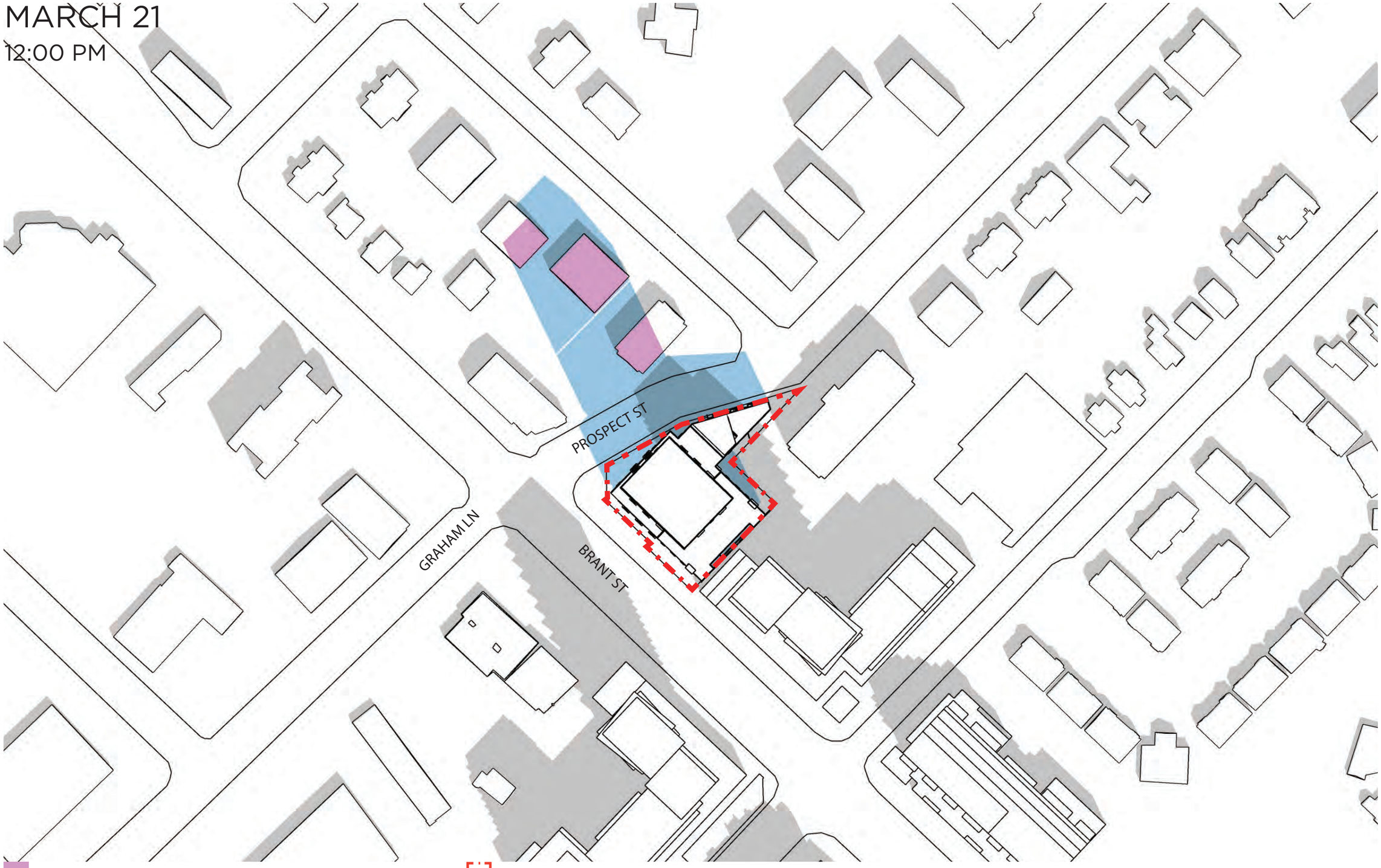
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SCALE = 1:1650

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

MARCH 21
12:00 PM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

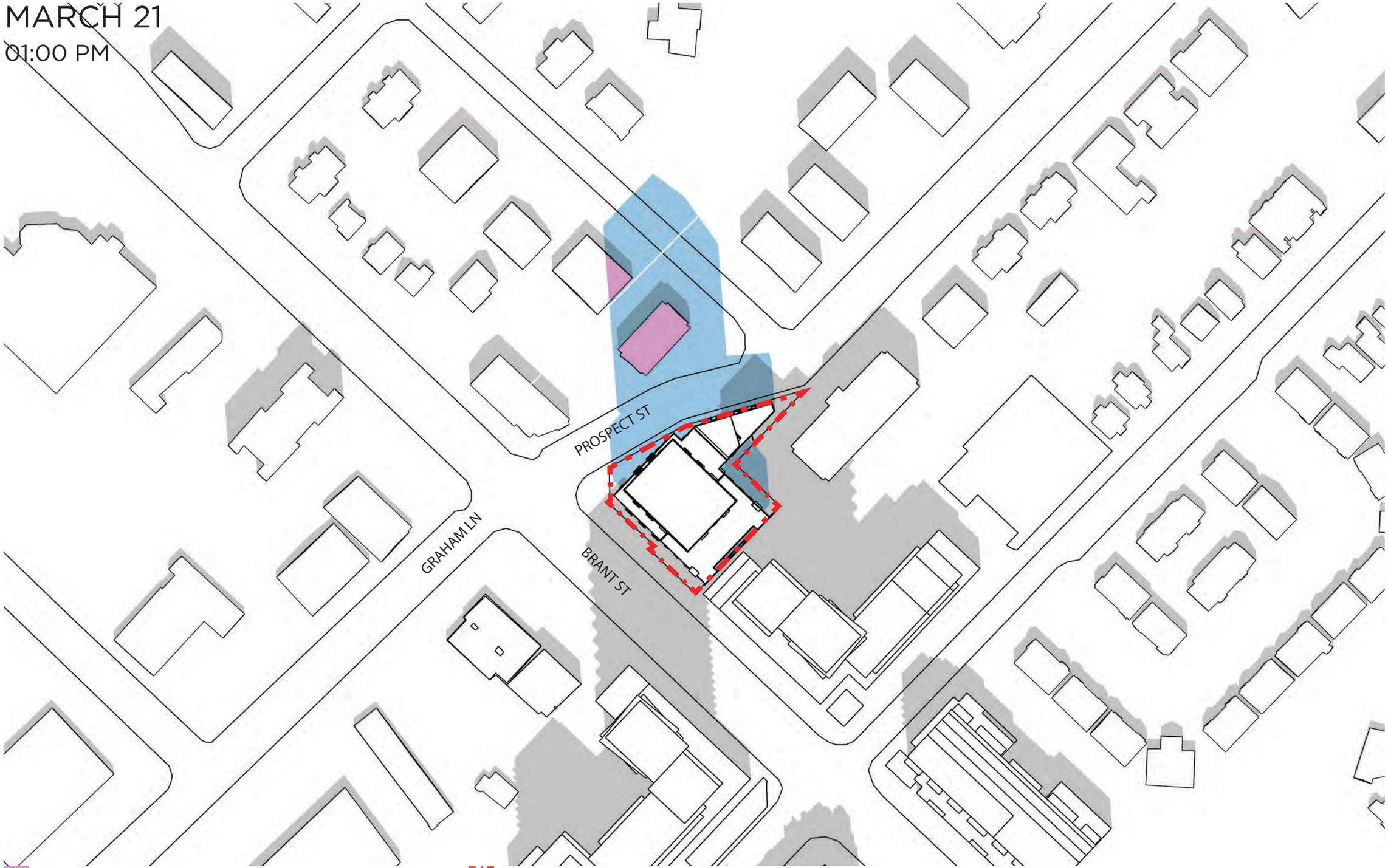
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SCALE = 1:1650

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

MARCH 21
01:00 PM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

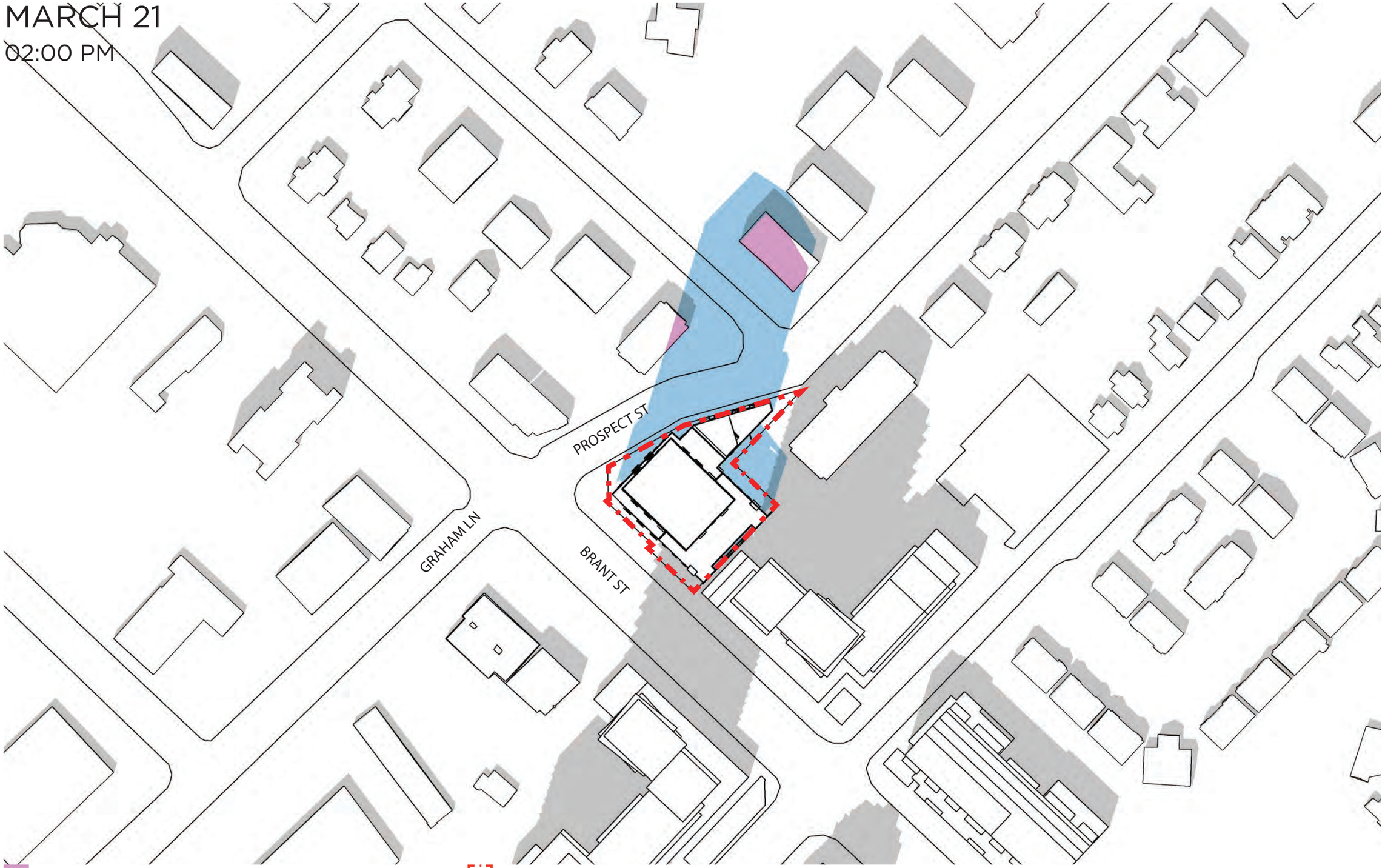
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SCALE = 1:1650

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

MARCH 21
02:00 PM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

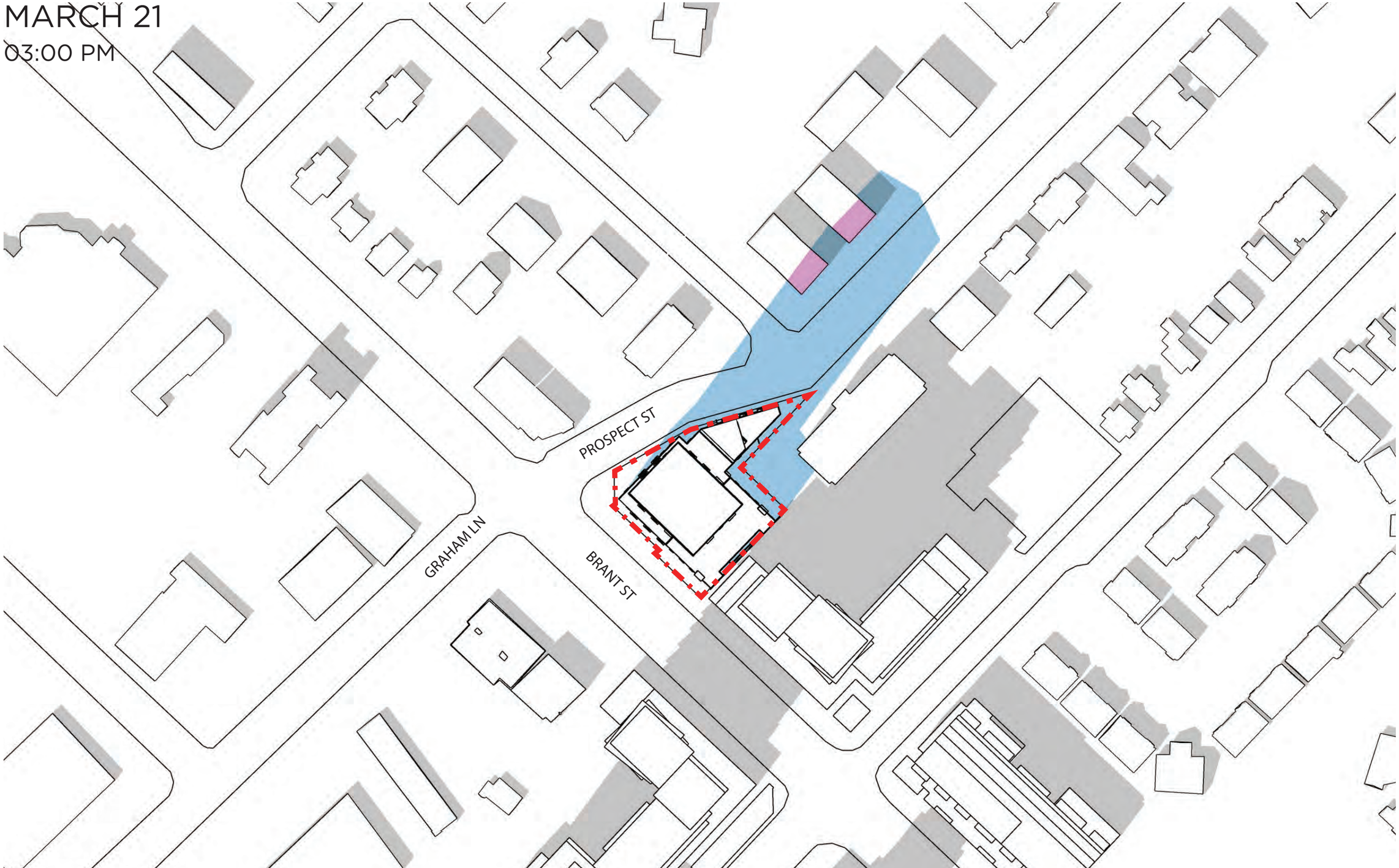
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SCALE = 1:1650

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

MARCH 21
03:00 PM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

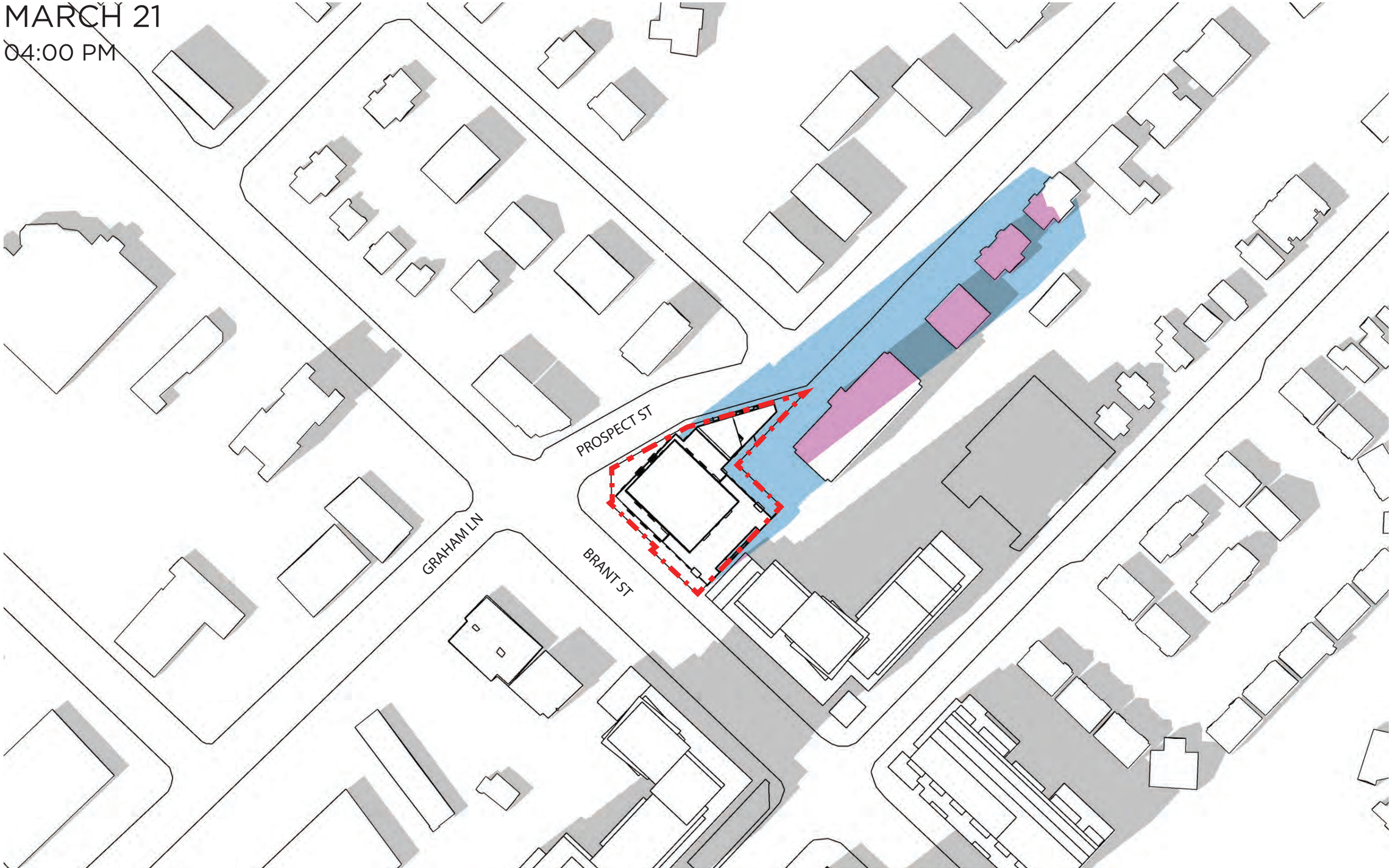
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SCALE = 1:1650

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

MARCH 21
04:00 PM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

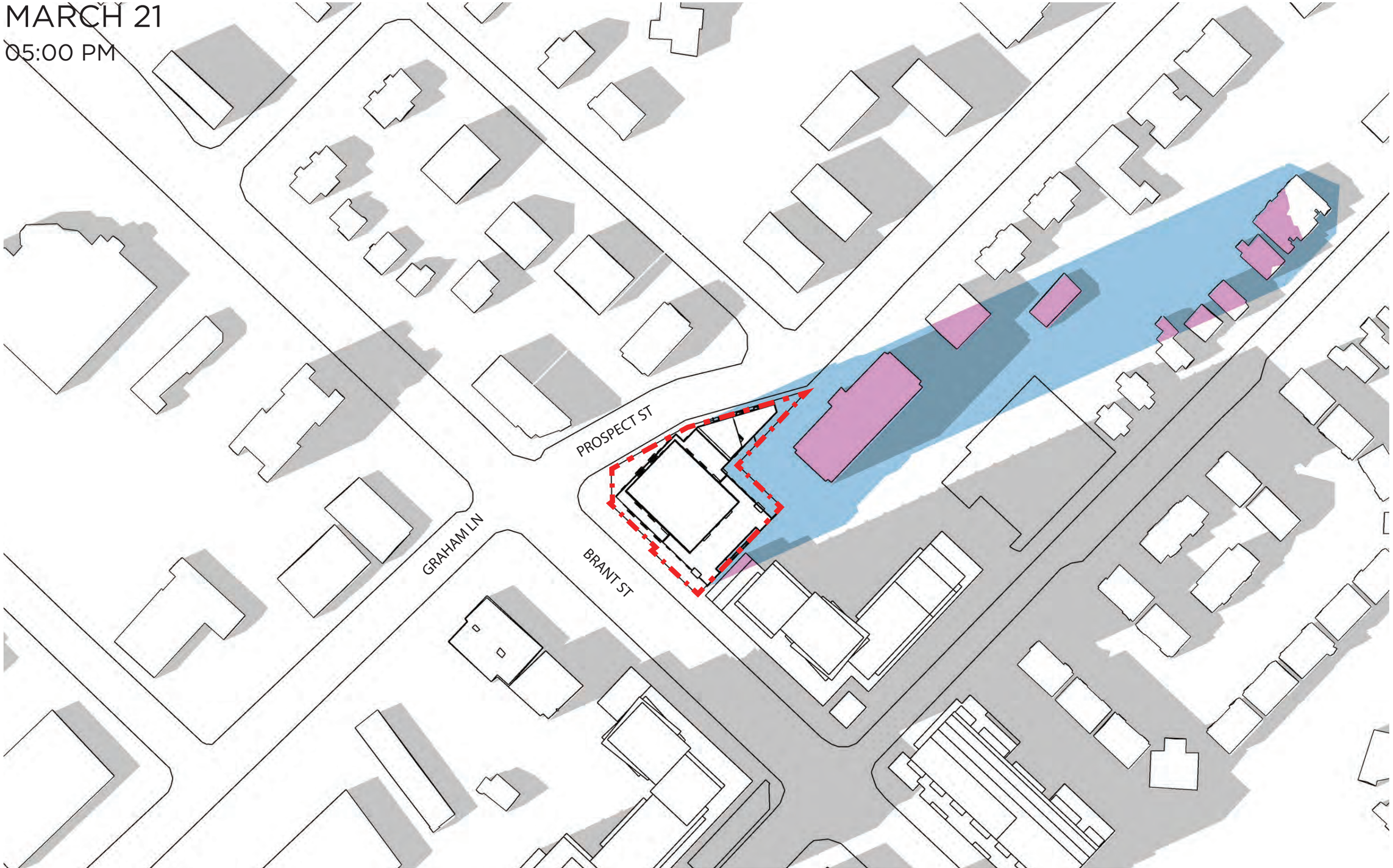
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SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

MARCH 21
05:00 PM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

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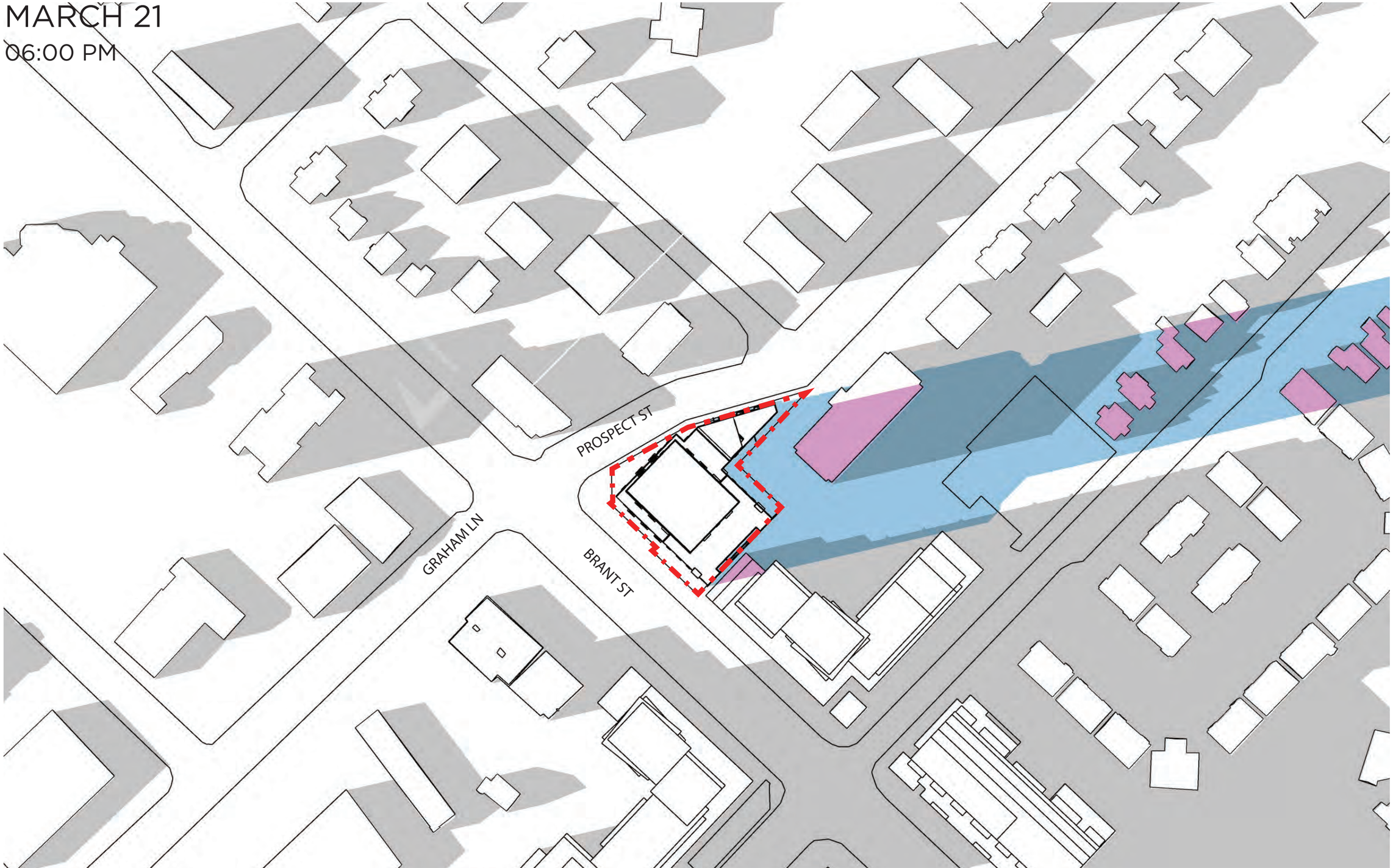
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RAW

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

MARCH 21
06:00 PM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

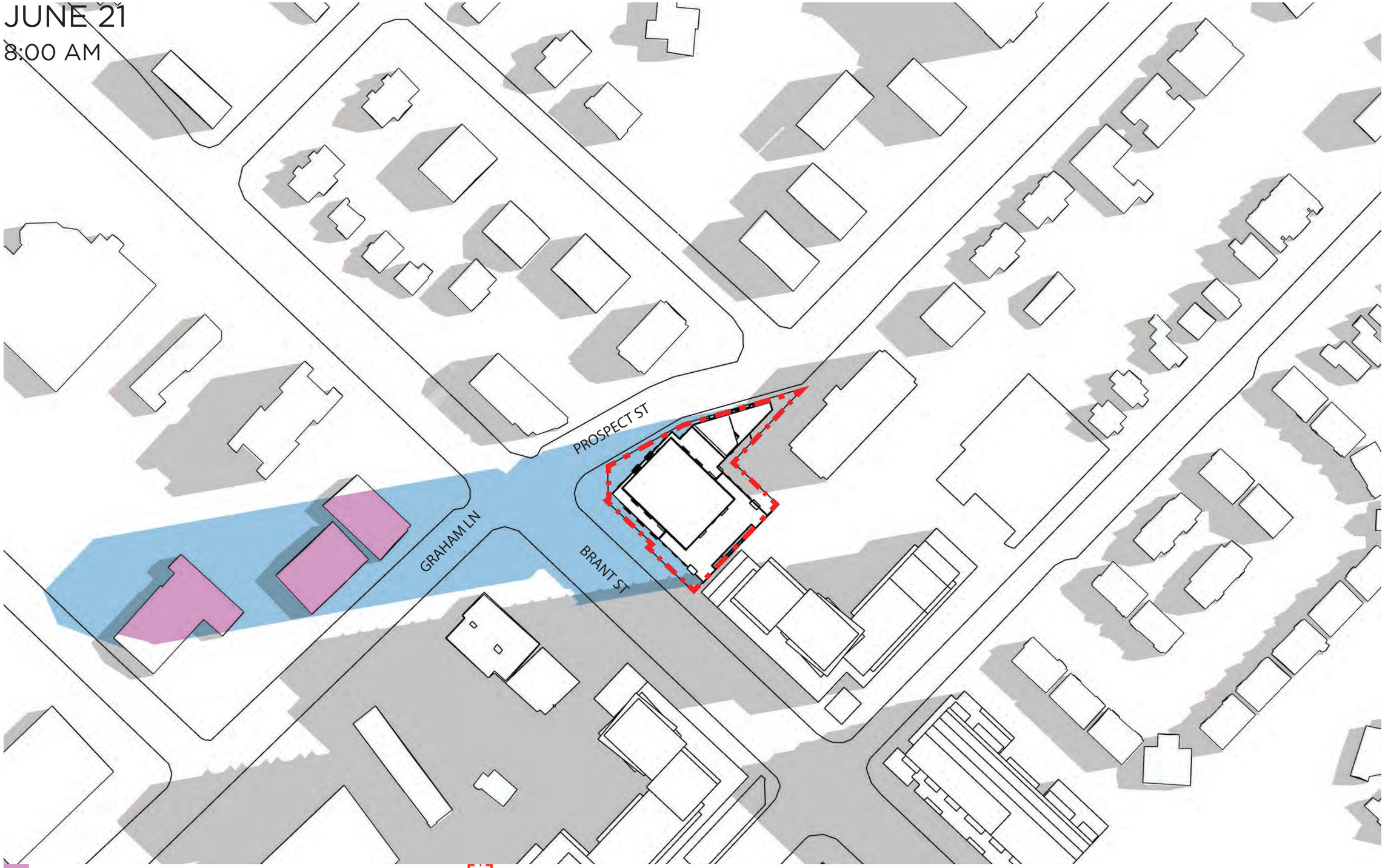
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25 m 50 m 100 m

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SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

JUNE 21
8:00 AM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

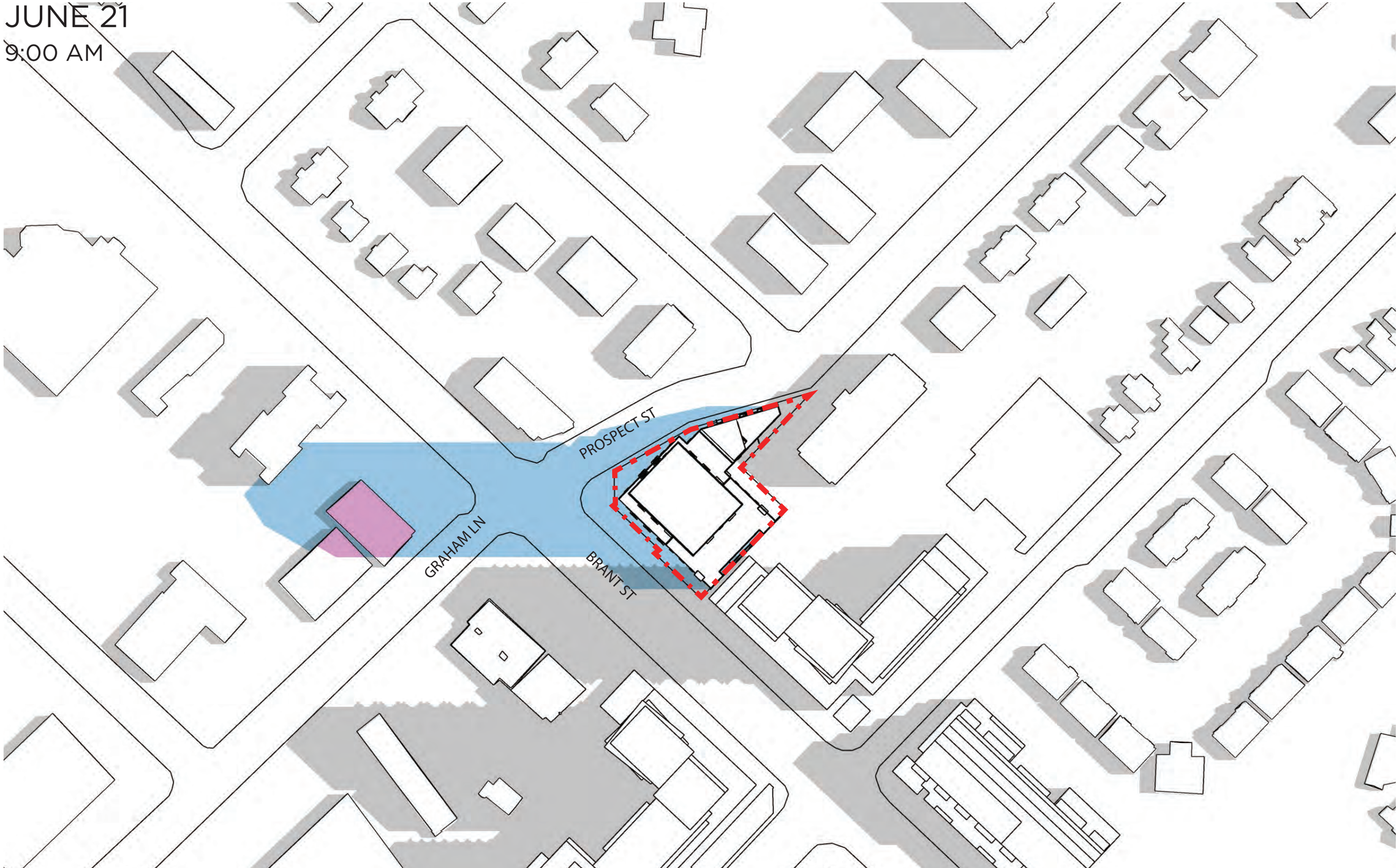
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25 m 50 m 100 m

SCALE = 1:1650

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

JUNE 21
9:00 AM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

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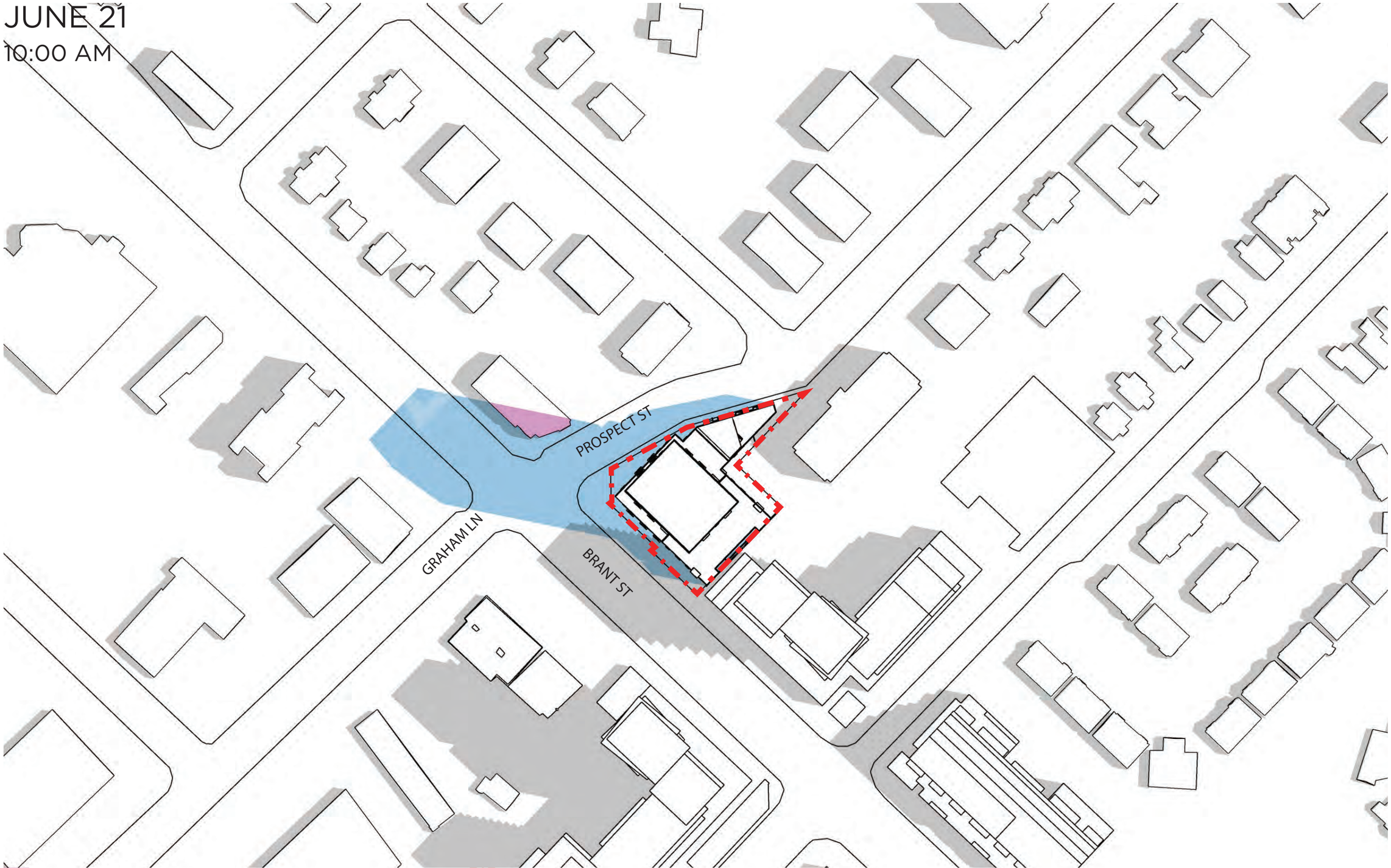
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RAW

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

JUNE 21
10:00 AM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

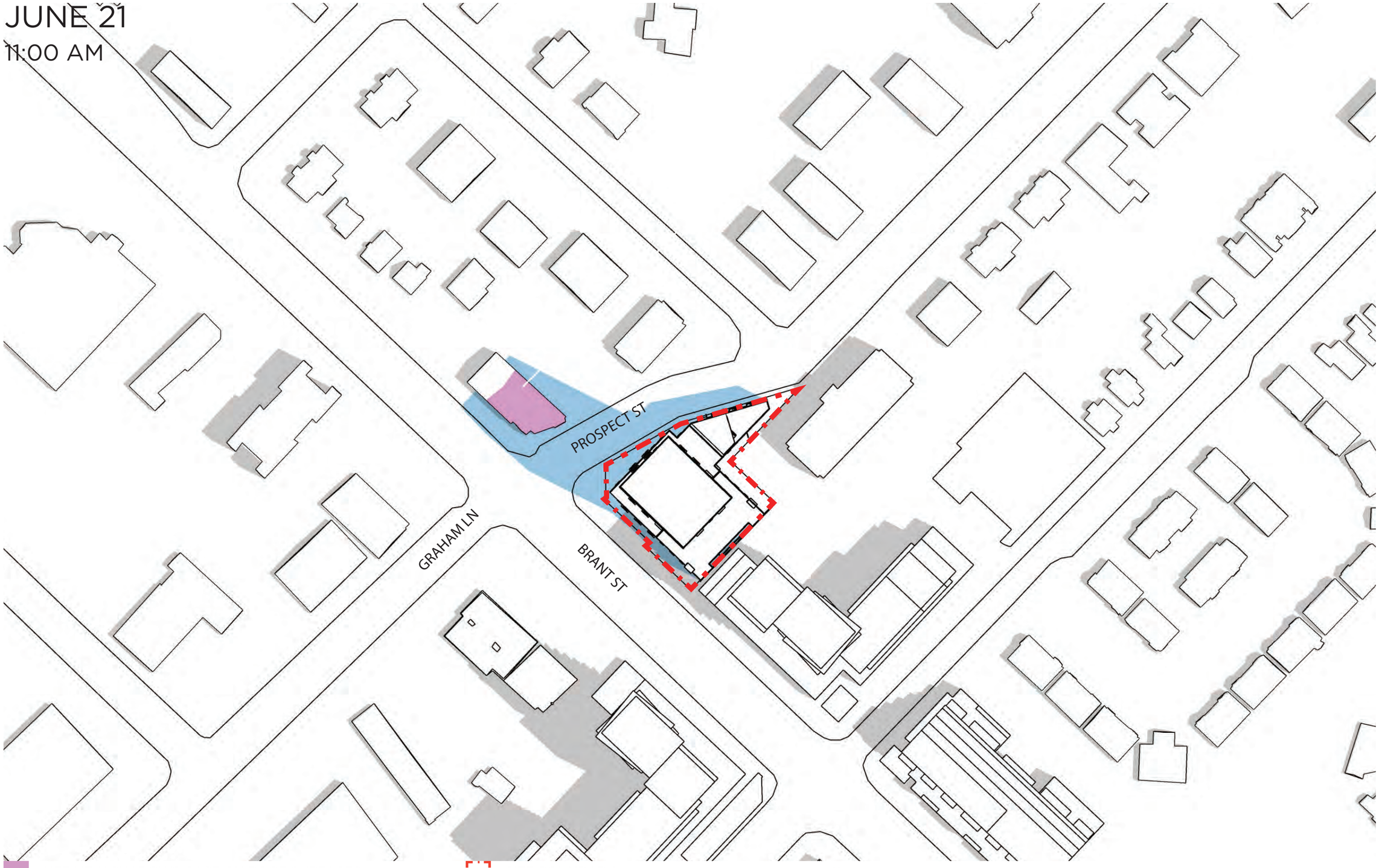
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SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

JUNE 21
11:00 AM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

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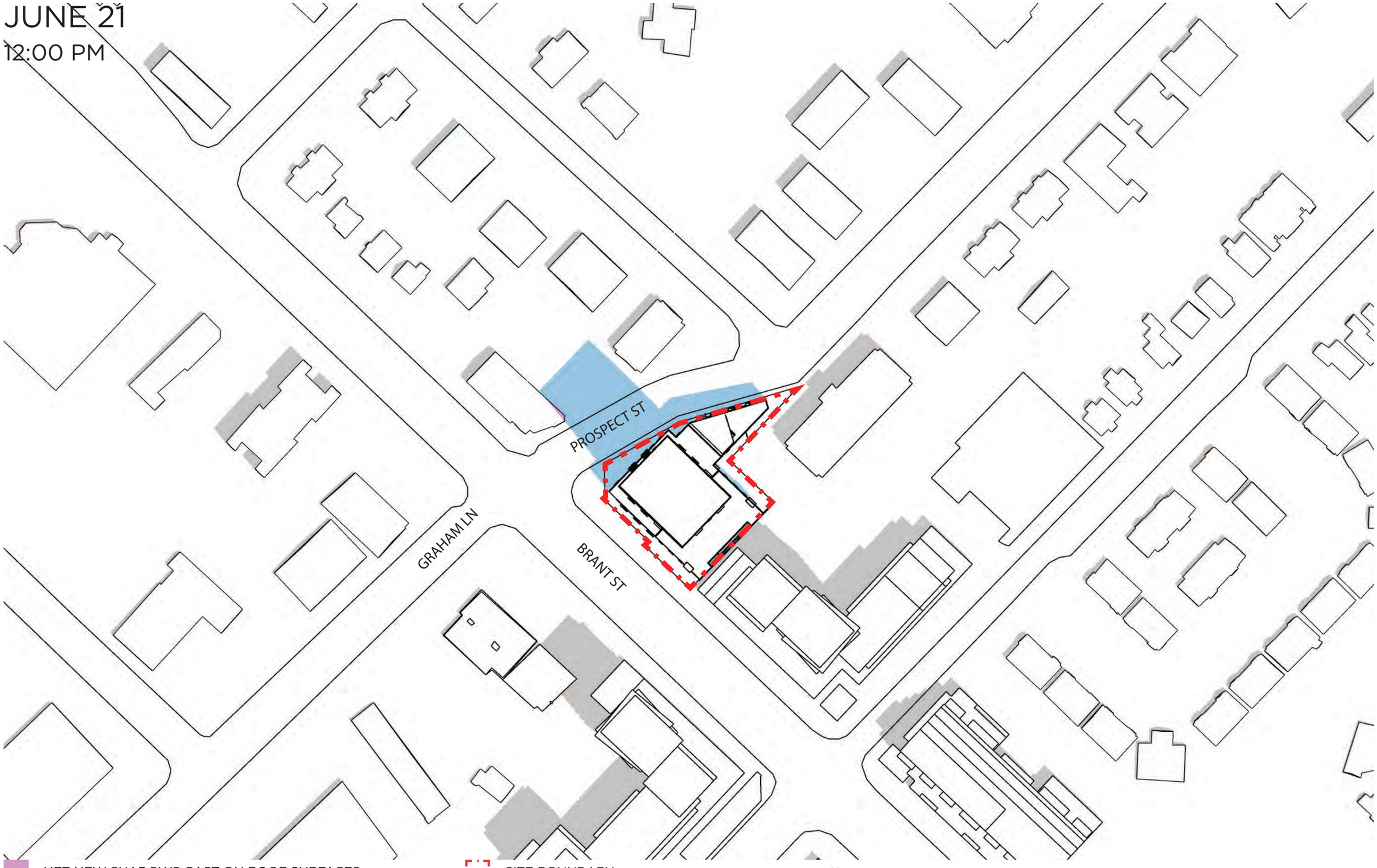
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RAW

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

JUNE 21
12:00 PM



NET NEW SHADOWS CAST ON ROOF SURFACES
NET NEW SHADOWS CAST ON GROUND SURFACES
SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY
OPEN SPACE

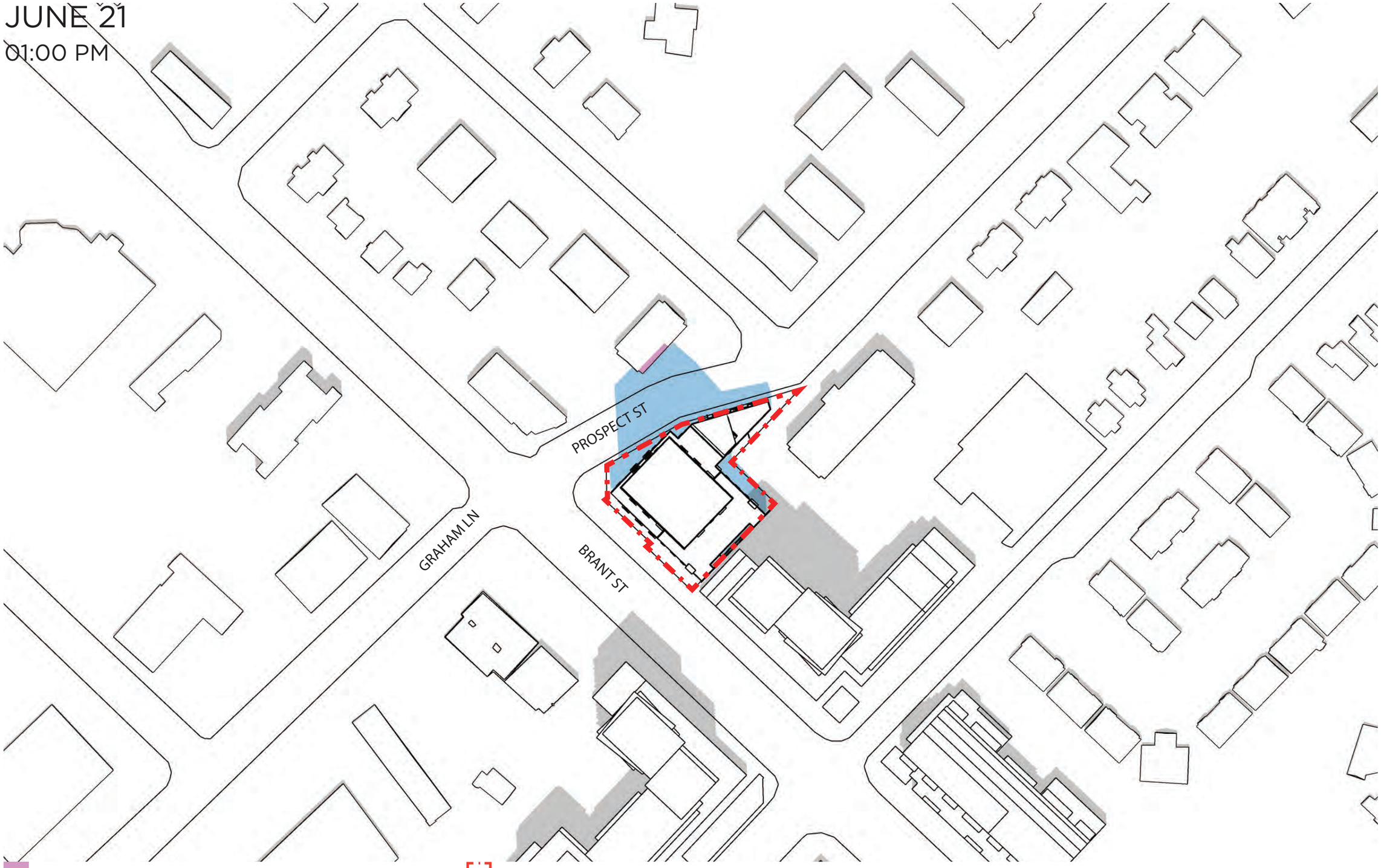
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SCALE = 1:1650

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

JUNE 21
01:00 PM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

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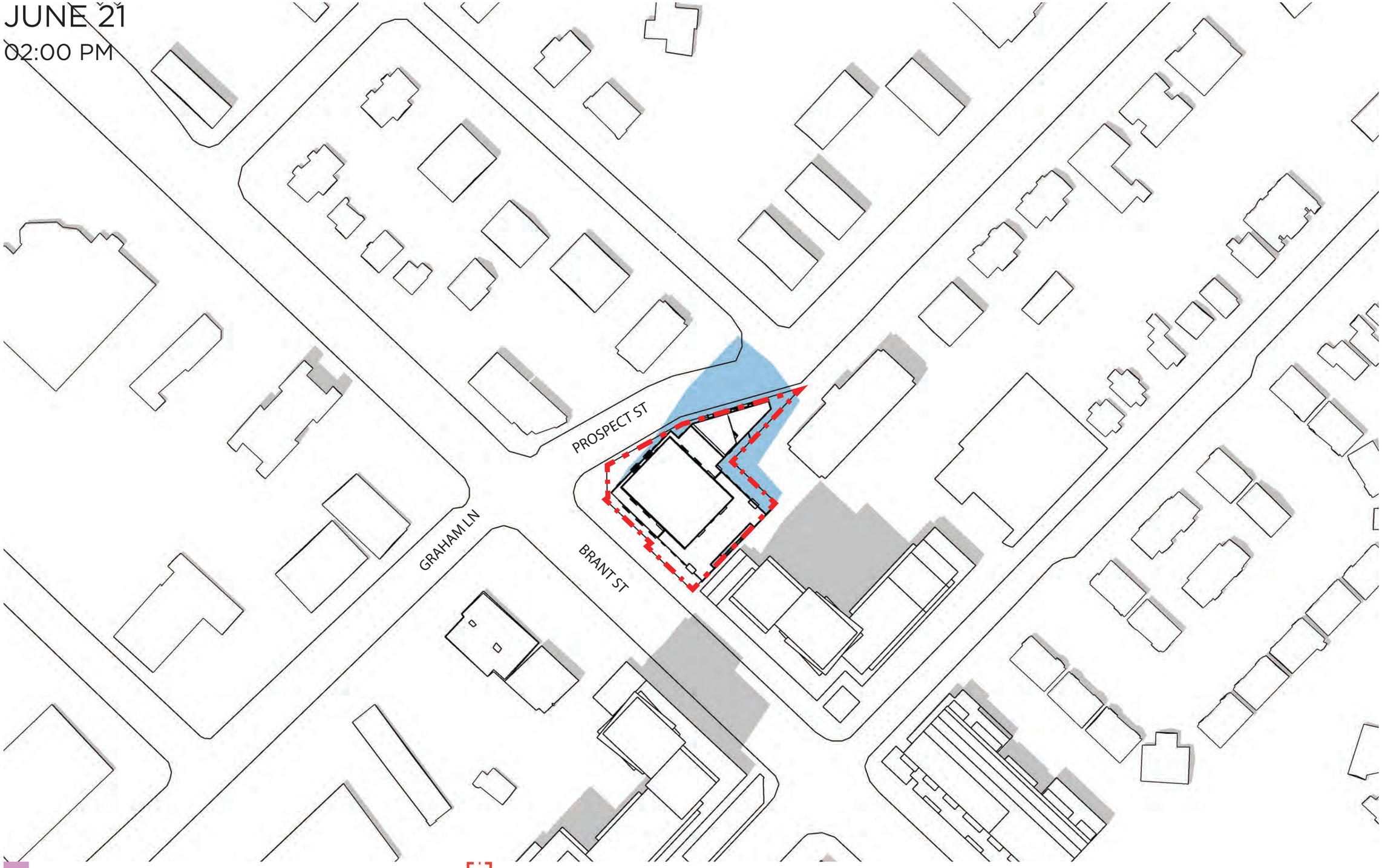
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RAW

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

JUNE 21
02:00 PM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

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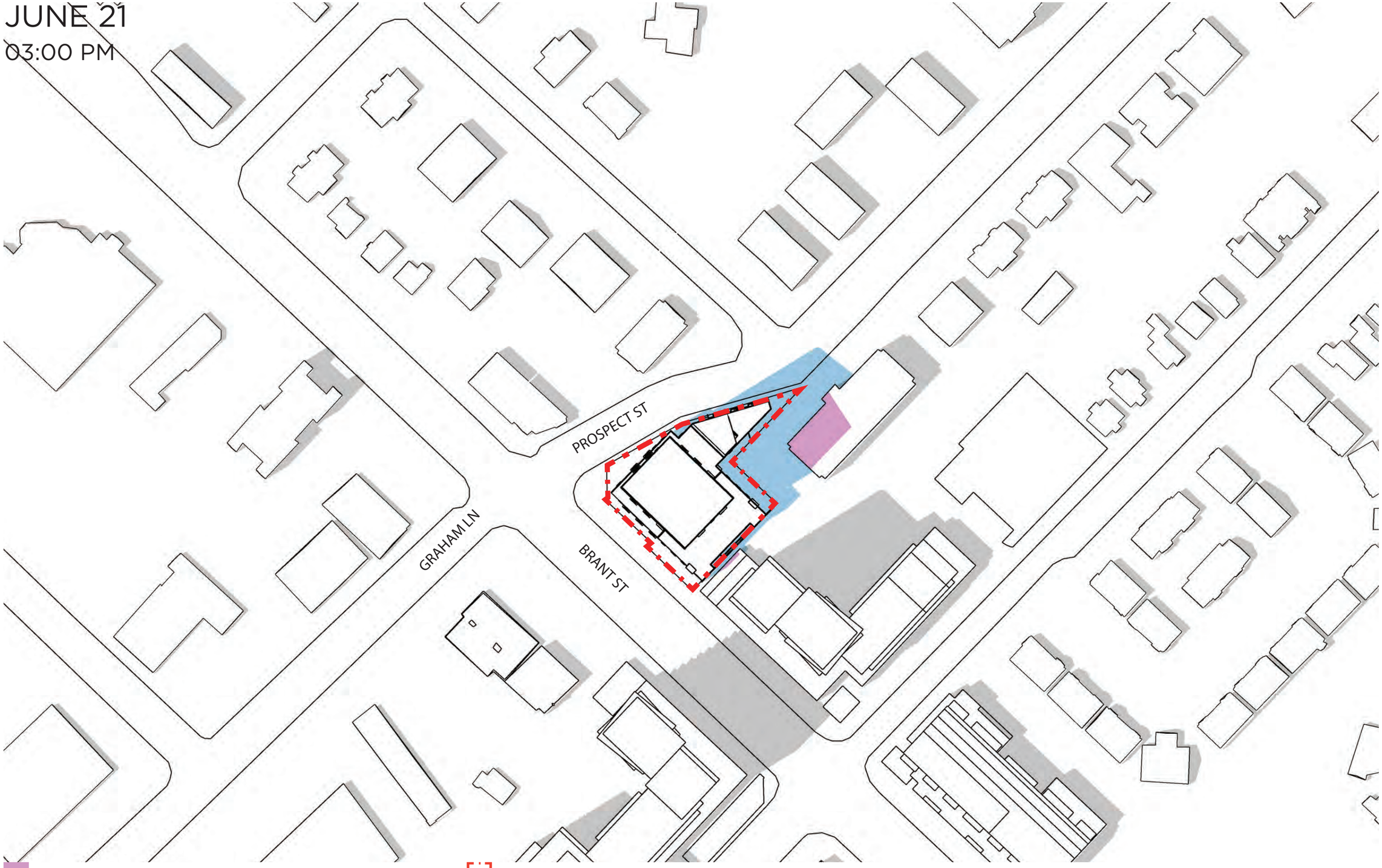
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SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

JUNE 21
03:00 PM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

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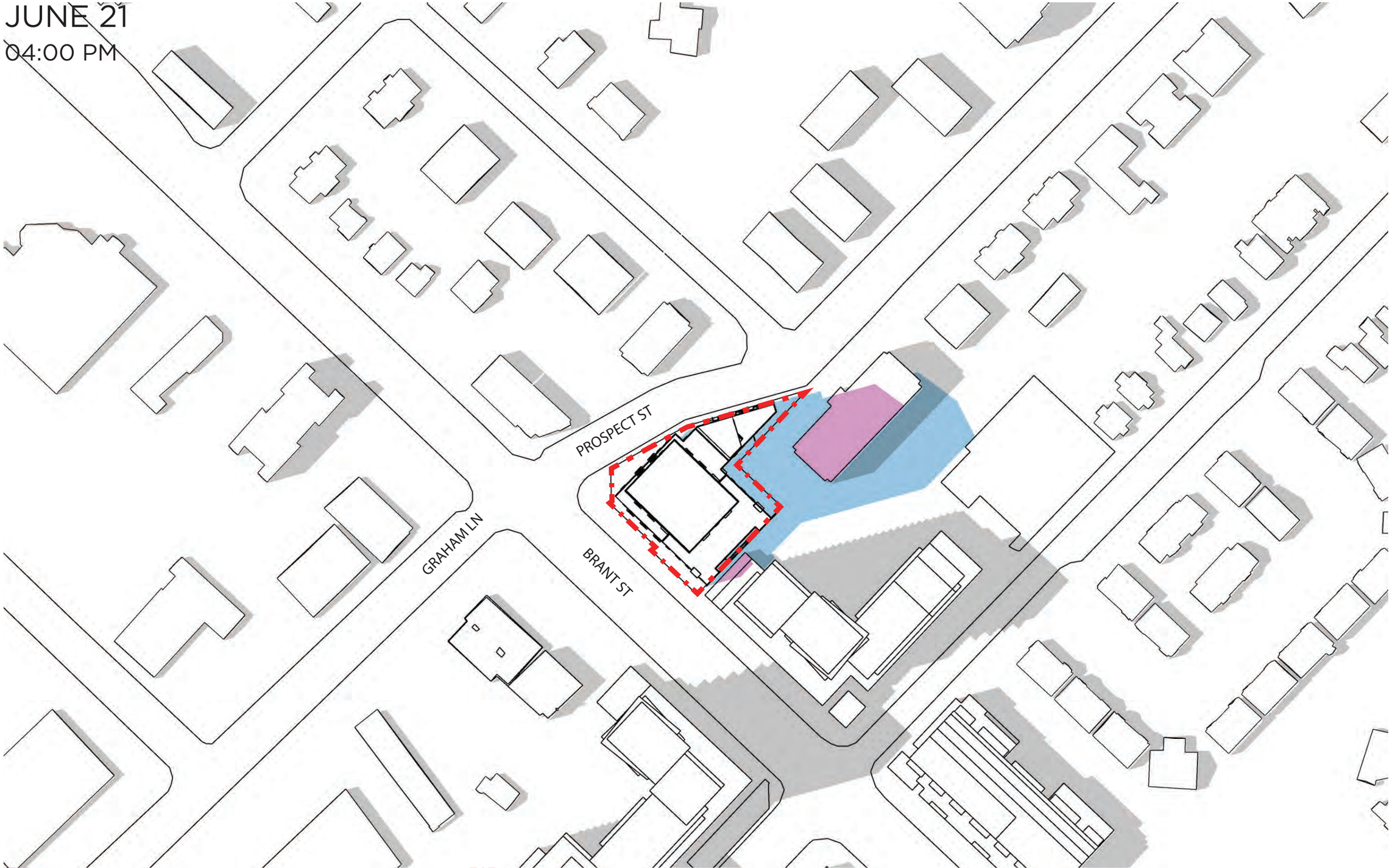
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SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

JUNE 21
04:00 PM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

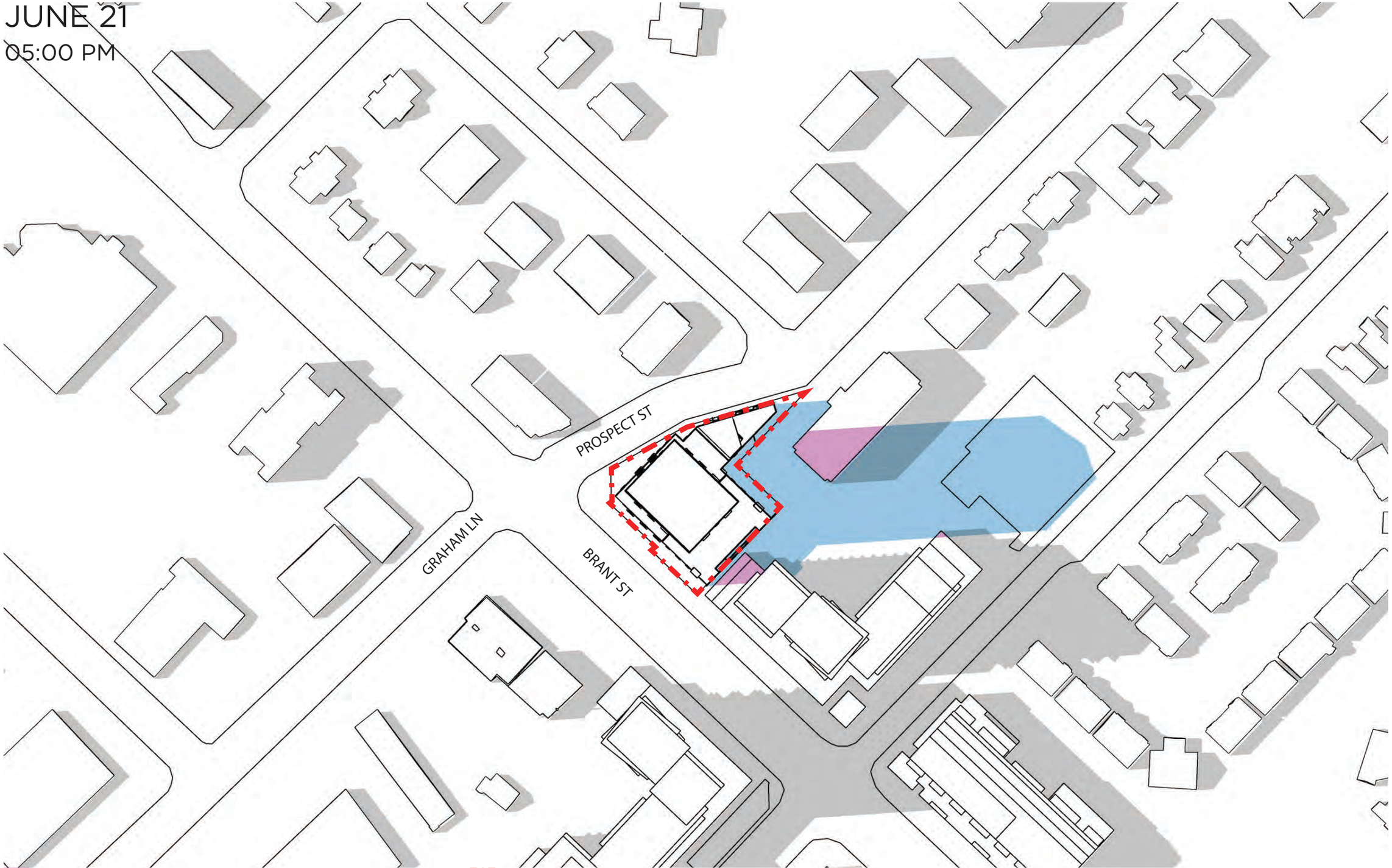
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SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

JUNE 21
05:00 PM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

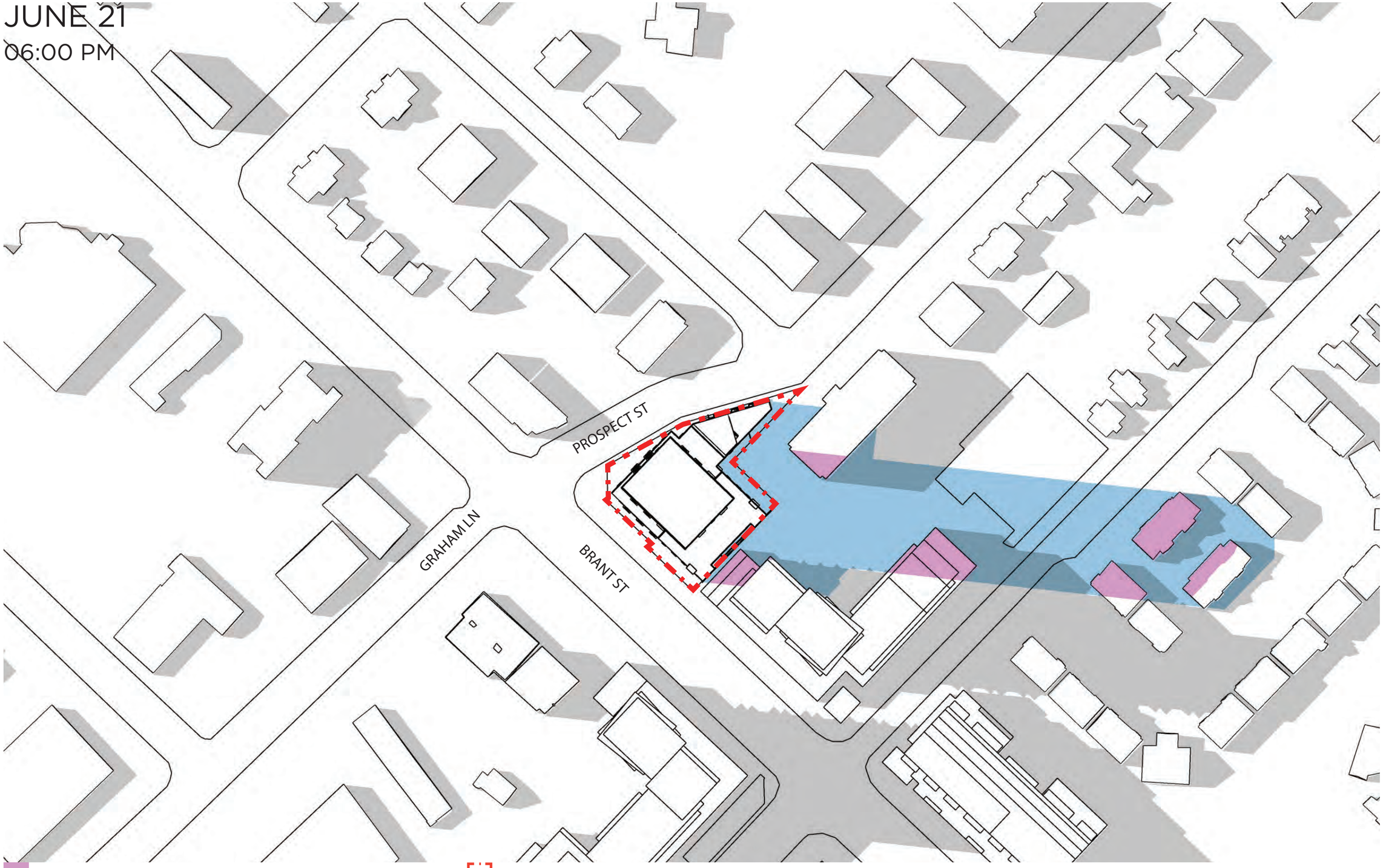
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SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

JUNE 21
06:00 PM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

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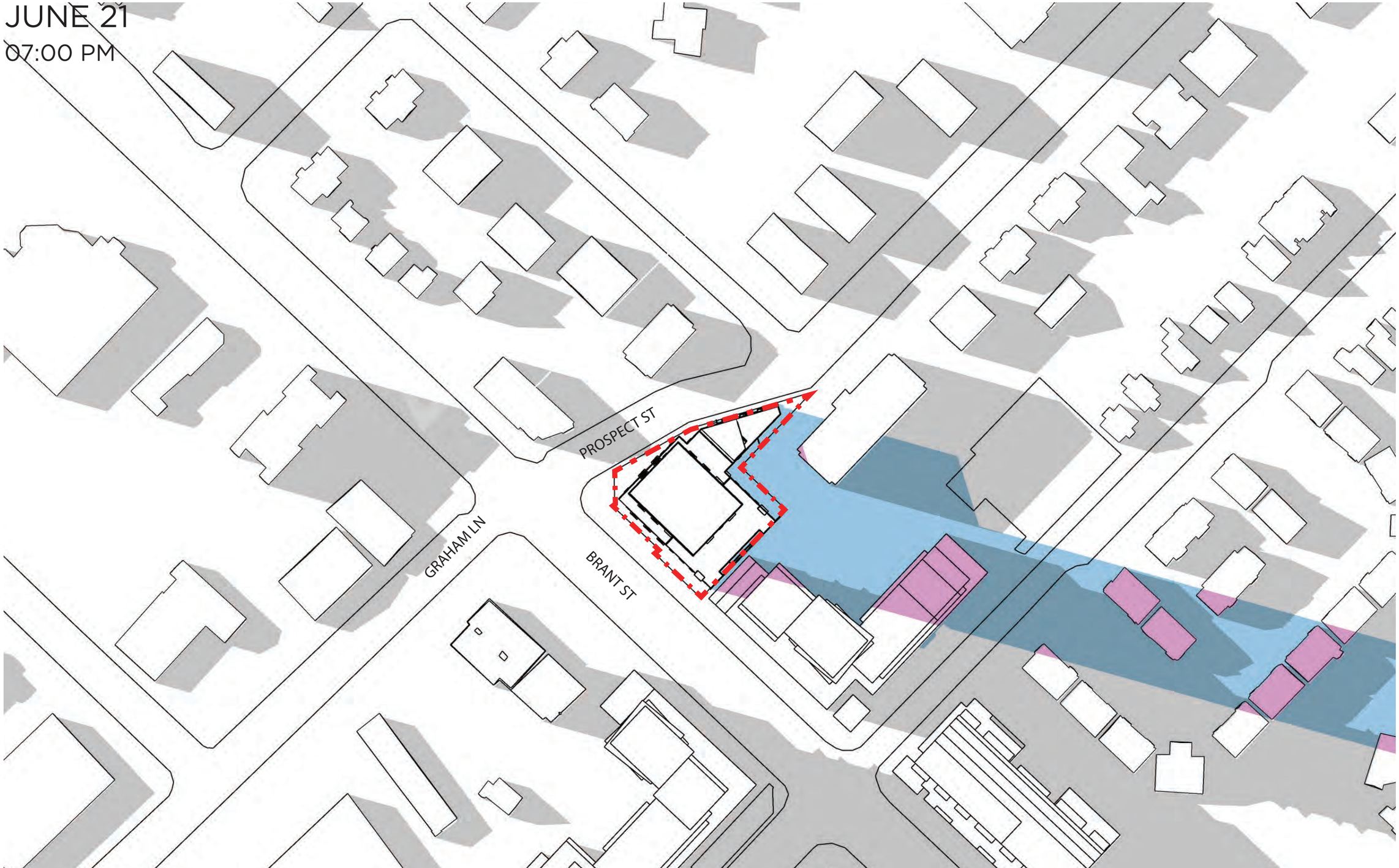
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RAW

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

JUNE 21
07:00 PM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

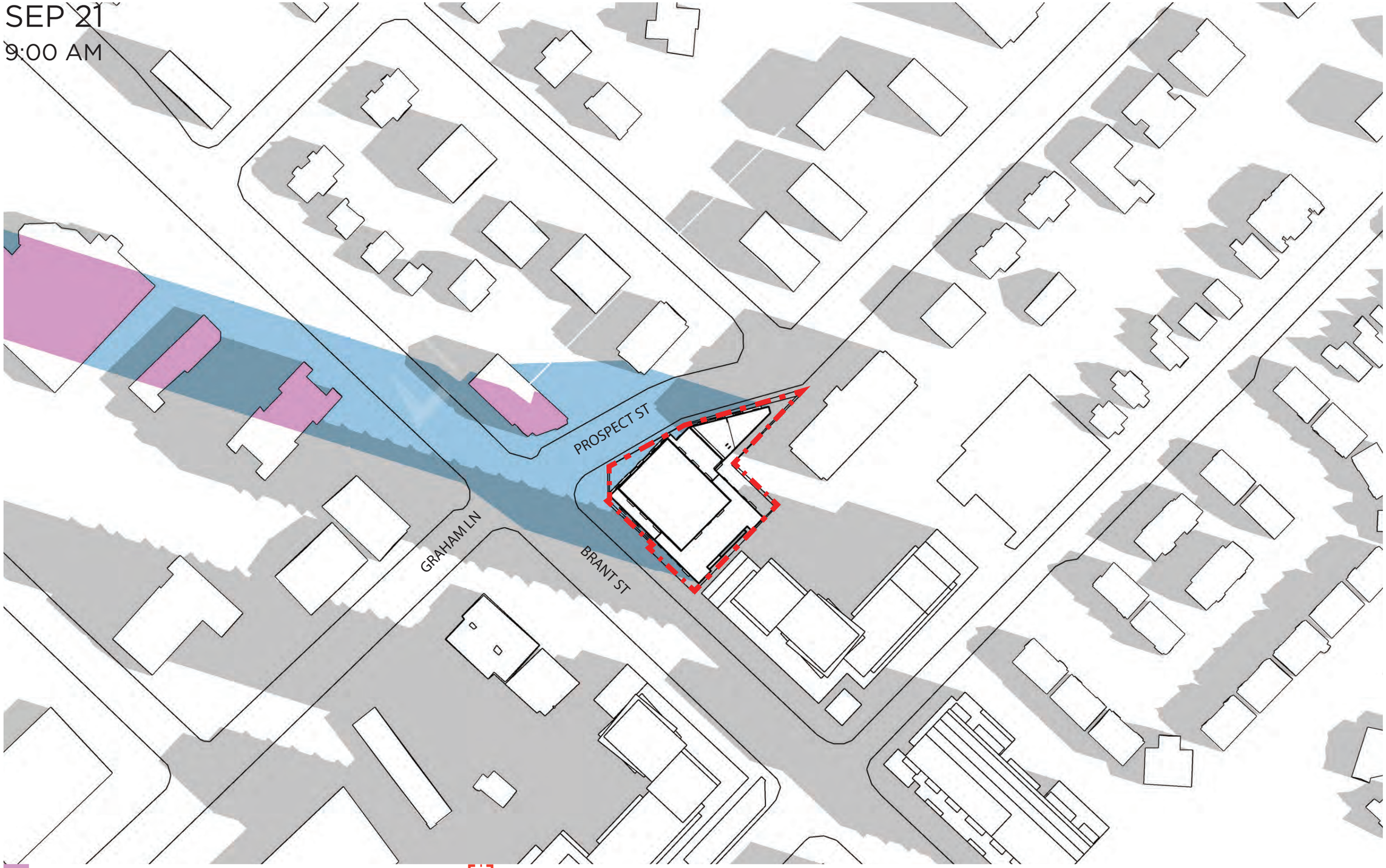
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SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

SEP 21
9:00 AM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

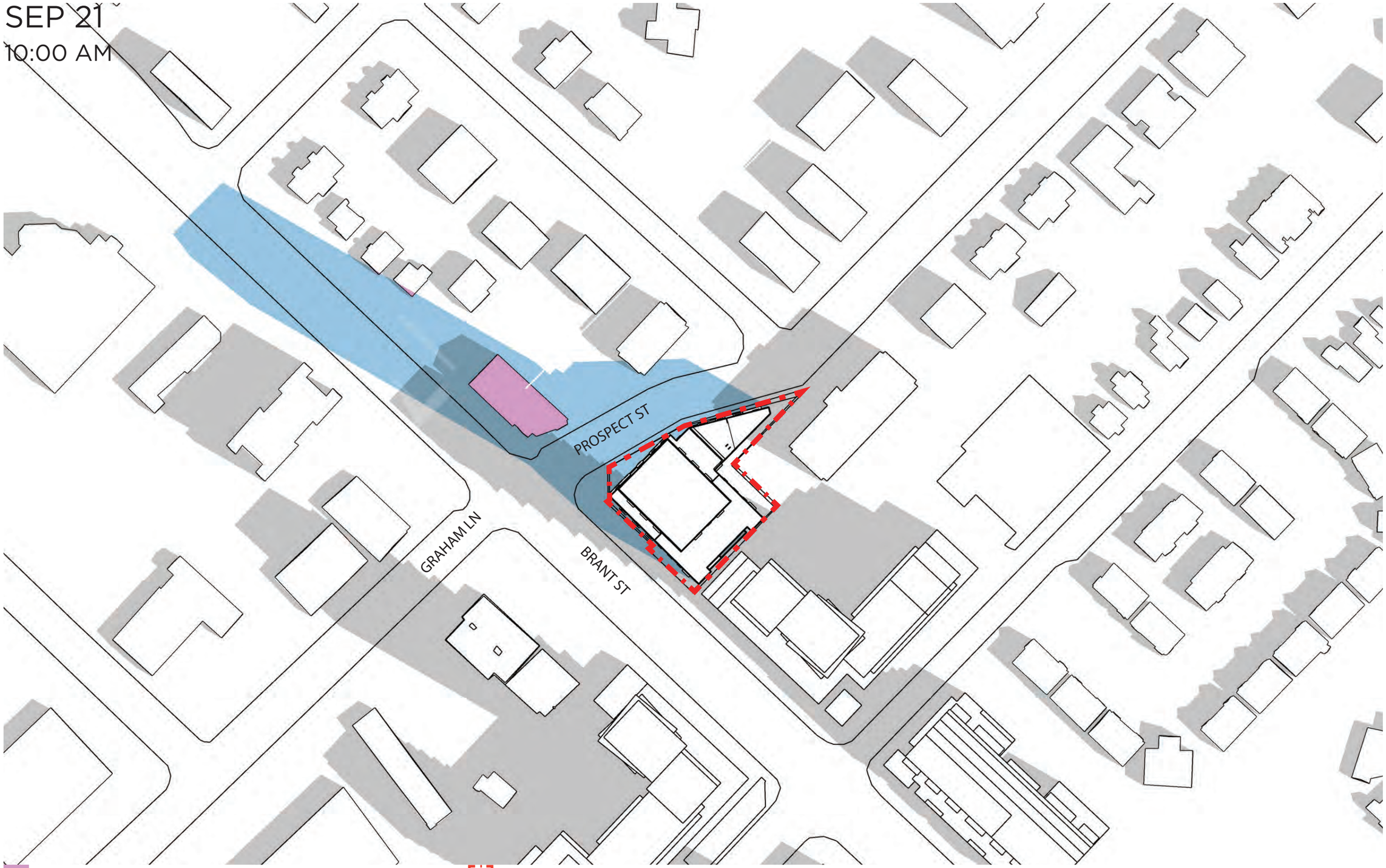
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SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

SEP 21
10:00 AM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

N

25 m 50 m 100 m

SCALE = 1:1650

RAW

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

SEP 21
11:00 AM

PROSPECT ST
GRAHAM LN
BRANT ST

NET NEW SHADOWS CAST ON ROOF SURFACES
NET NEW SHADOWS CAST ON GROUND SURFACES
SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY
OPEN SPACE

N

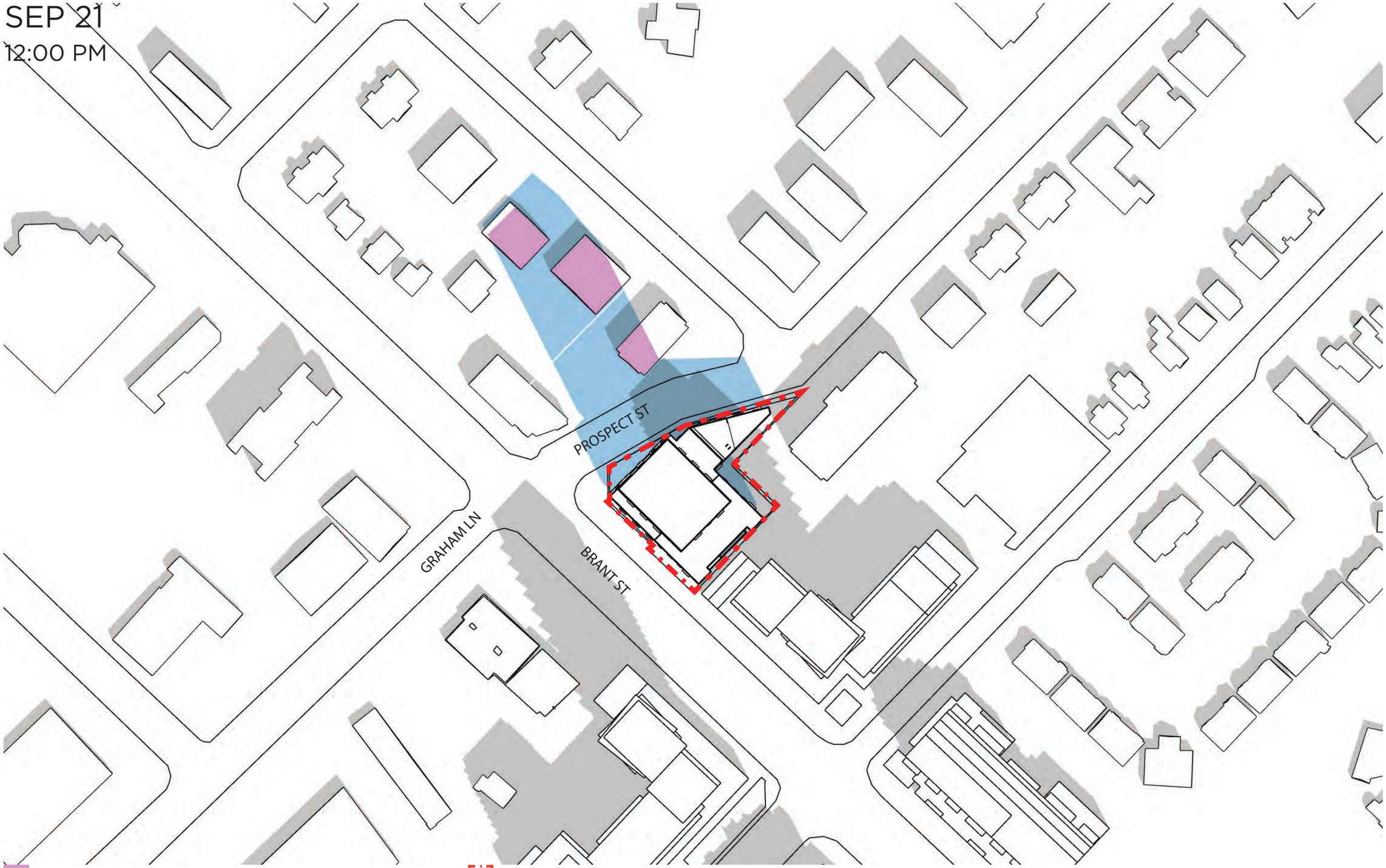
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SCALE = 1:1650

RAW

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

SEP 21
12:00 PM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

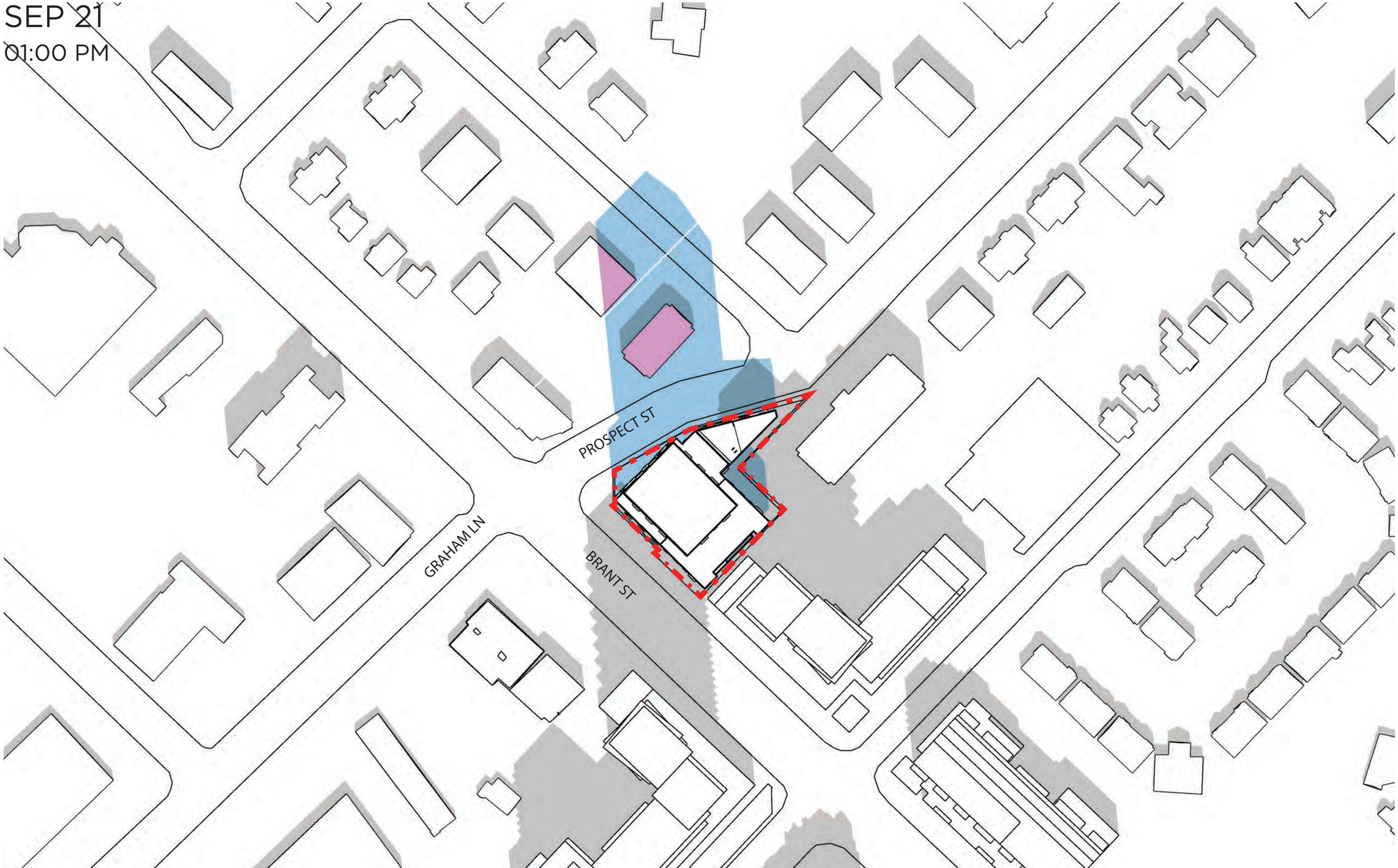
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SCALE = 1:1650

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

SEP 21
01:00 PM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

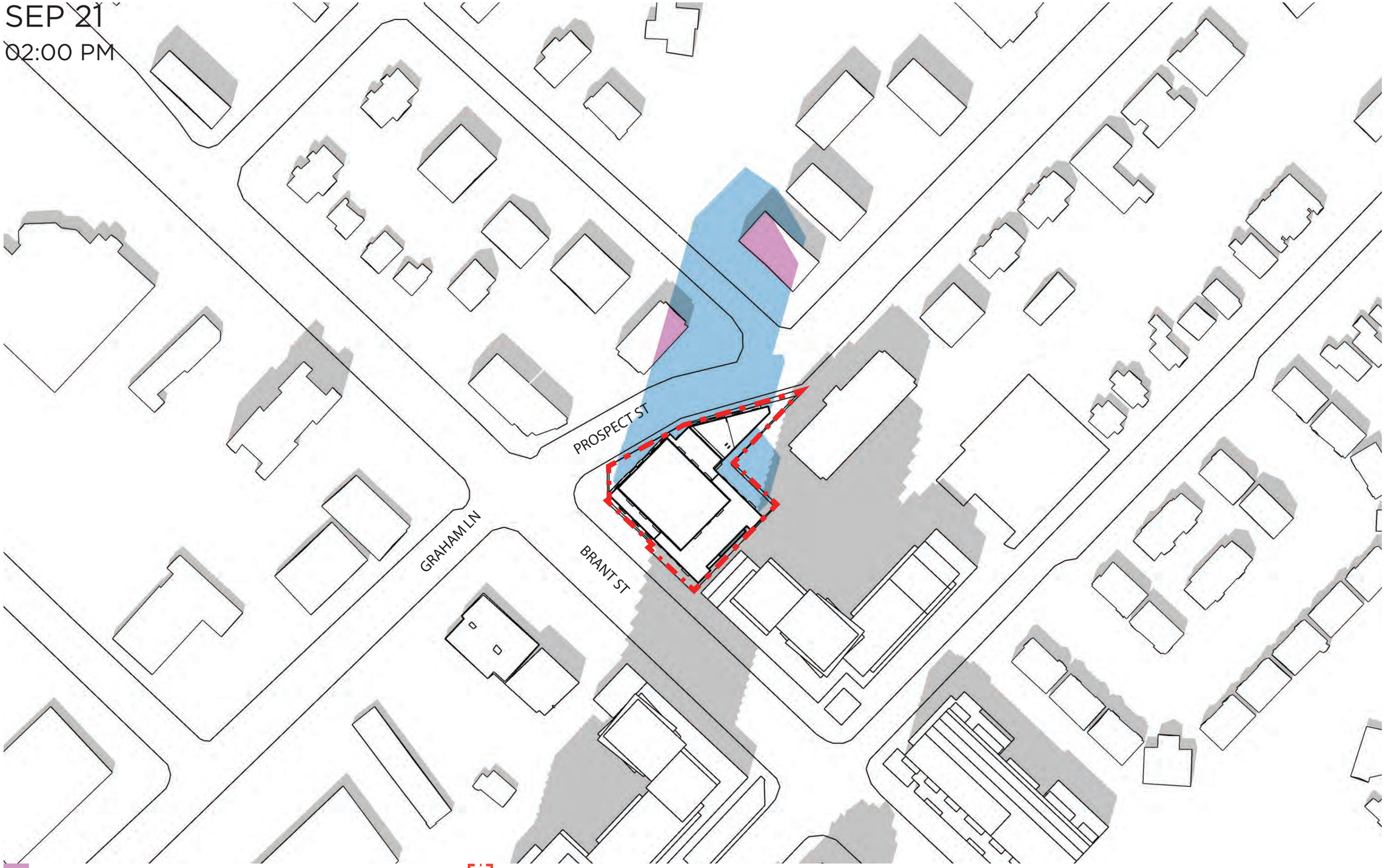
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25 m 50 m 100 m

SCALE = 1:1650

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

SEP 21
02:00 PM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

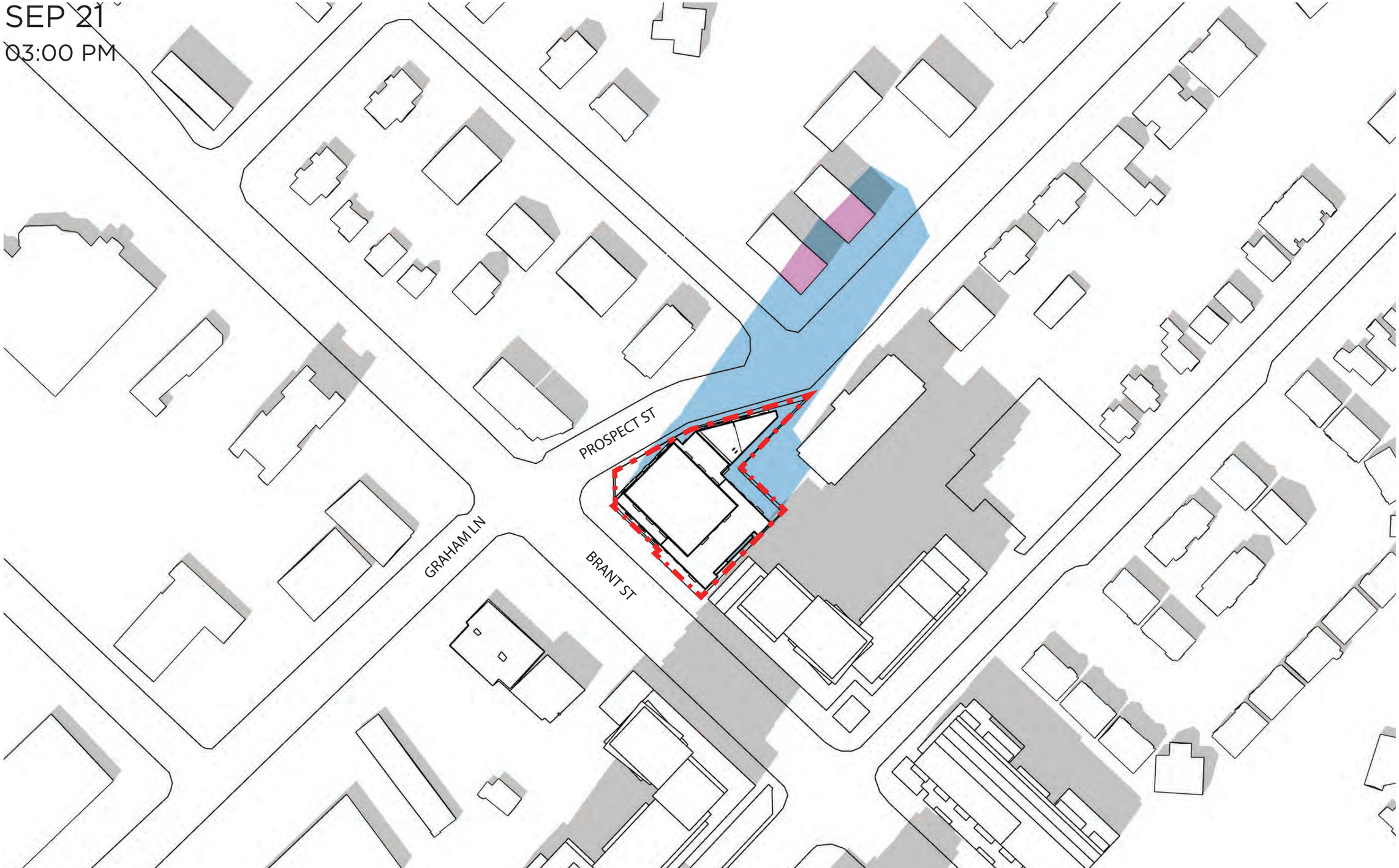
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25 m 50 m 100 m

SCALE = 1:1650

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

SEP 21
03:00 PM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

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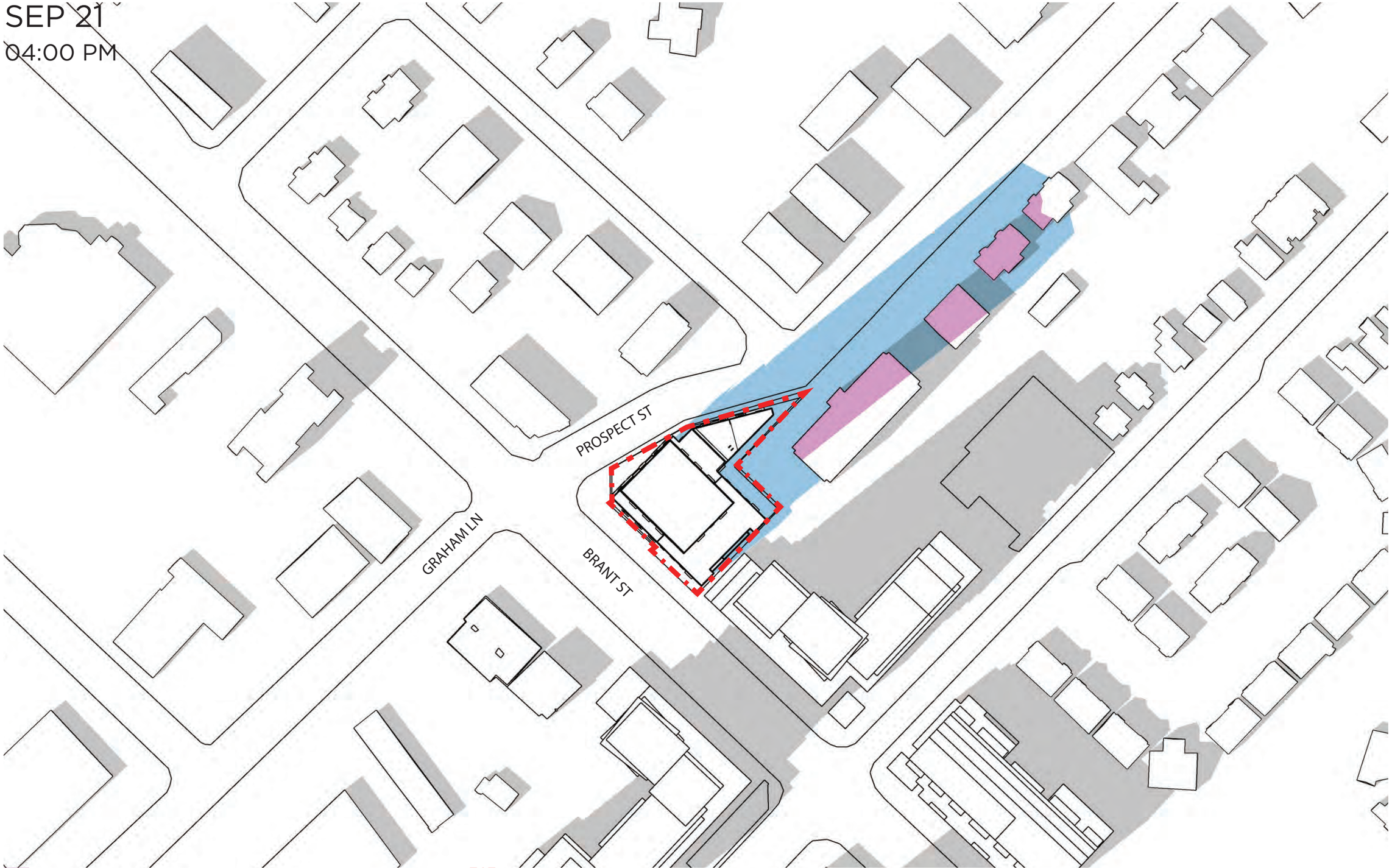
25 m 50 m 100 m

SCALE = 1:1650

RAW

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

SEP 21
04:00 PM



NET NEW SHADOWS CAST ON ROOF SURFACES
NET NEW SHADOWS CAST ON GROUND SURFACES
SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES
SITE BOUNDARY
OPEN SPACE

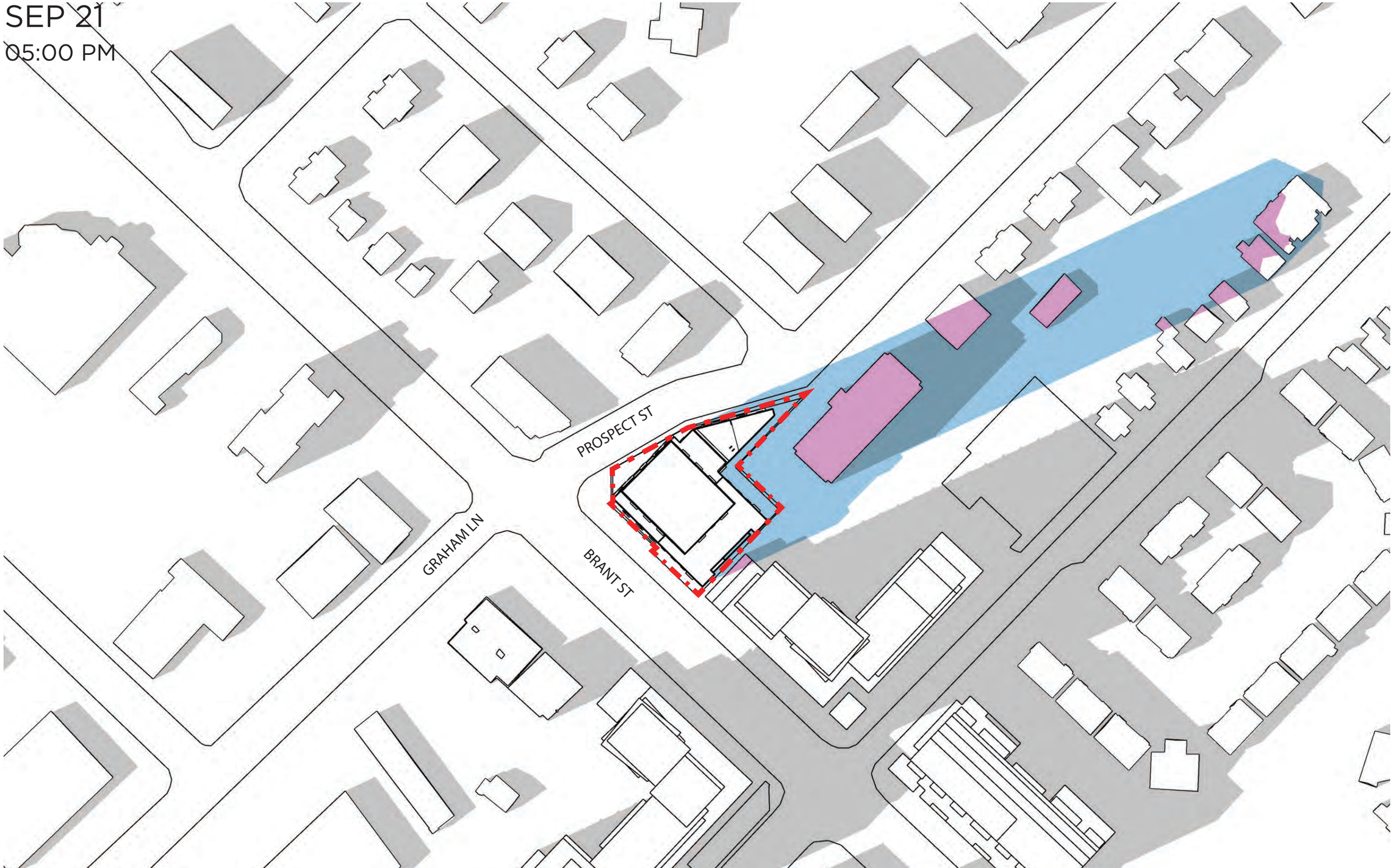
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SCALE = 1:1650

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

SEP 21
05:00 PM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

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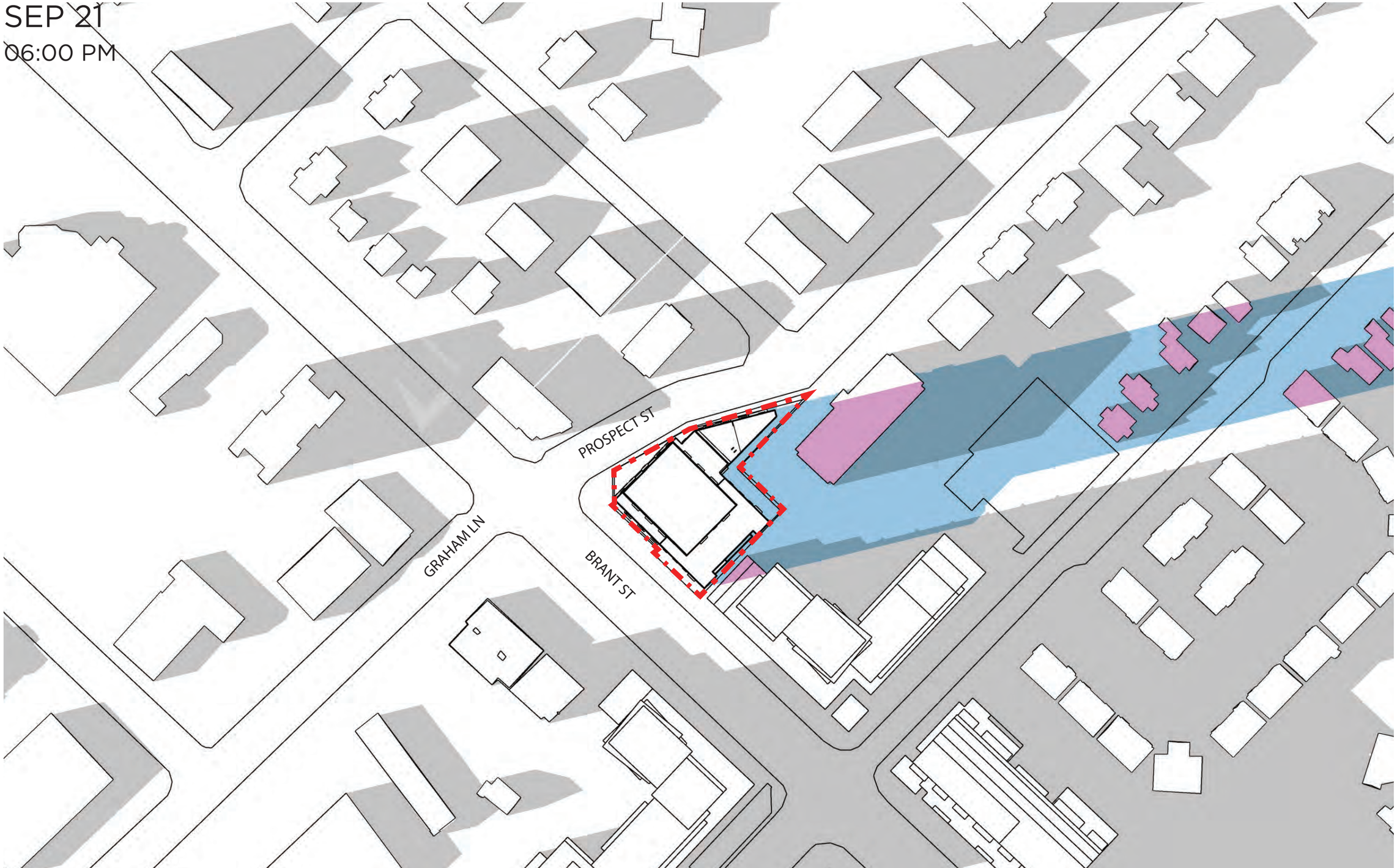
25 m 50 m 100 m

SCALE = 1:1650

RAW

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

SEP 21
06:00 PM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

N

25 m 50 m 100 m

SCALE = 1:1650

RAW

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

DEC 21
11:00 AM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

N

25 m 50 m 100 m

SCALE = 1:1650

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

DEC 21
12:00 PM

PROSPECT ST
GRAHAM LN
BRANT ST

NET NEW SHADOWS CAST ON ROOF SURFACES
NET NEW SHADOWS CAST ON GROUND SURFACES
SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES
SITE BOUNDARY
OPEN SPACE

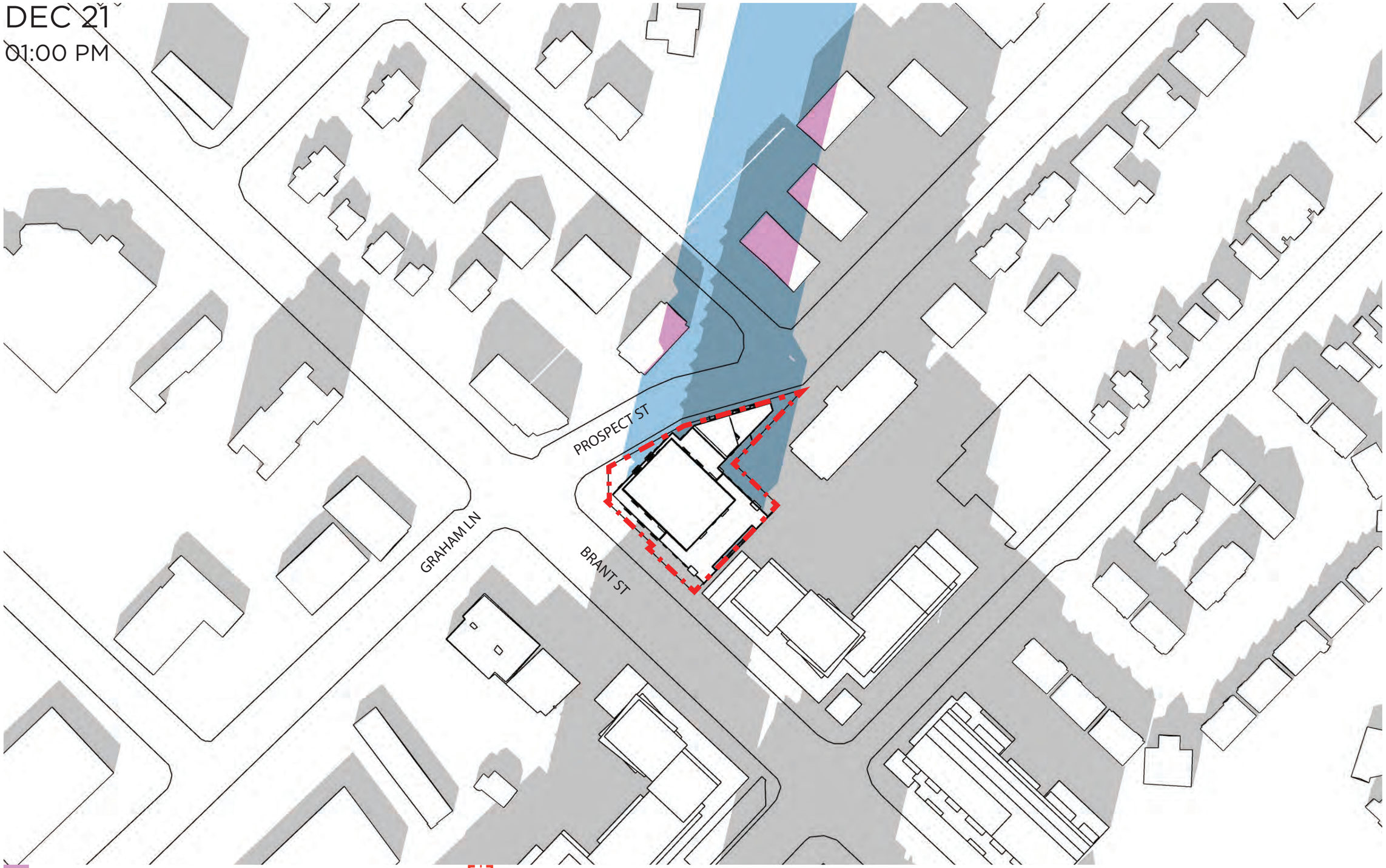
N

25 m 50 m 100 m

SCALE = 1:1650

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

DEC 21
01:00 PM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

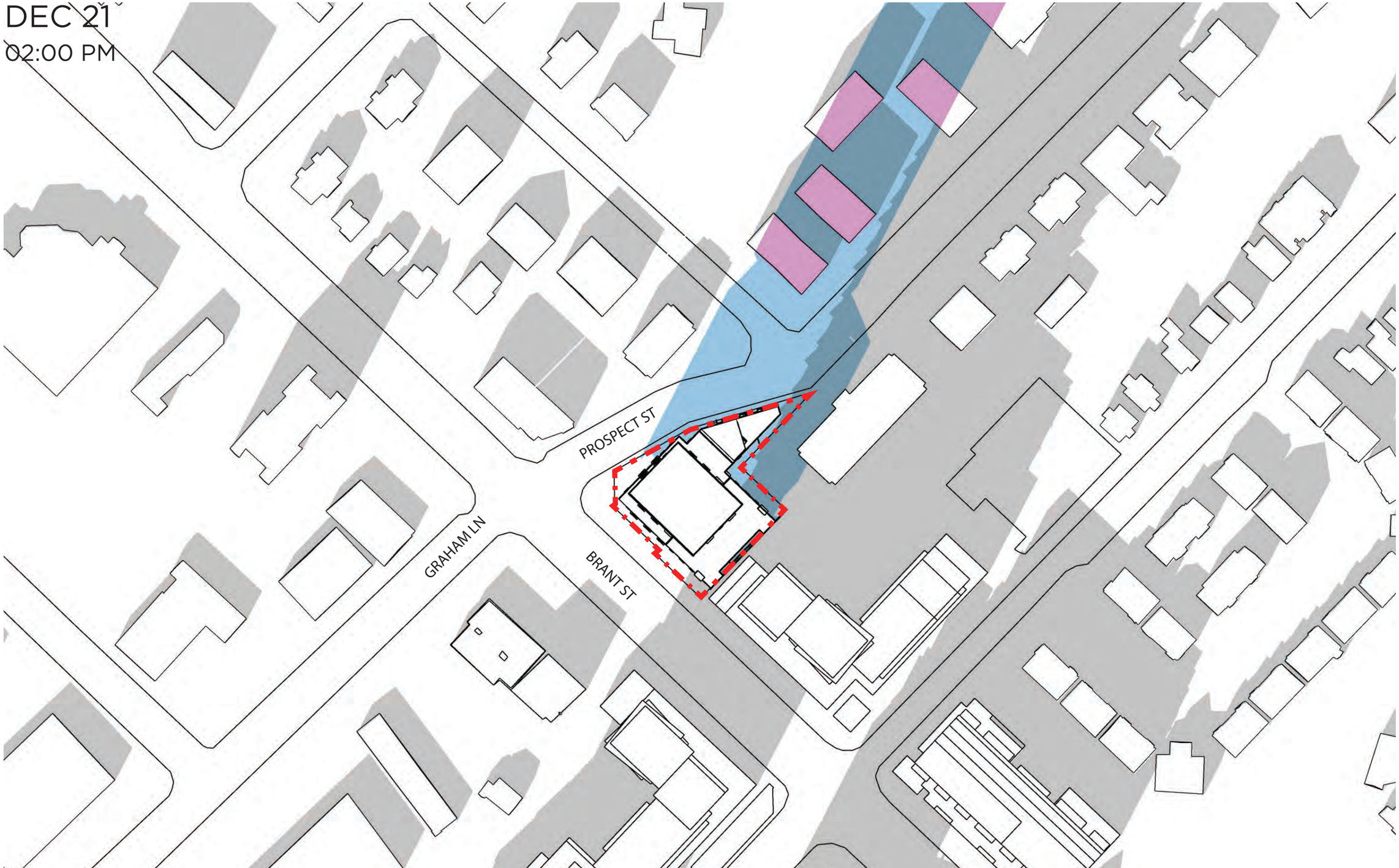
N

25 m 50 m 100 m

SCALE = 1:1650

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

DEC 21
02:00 PM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

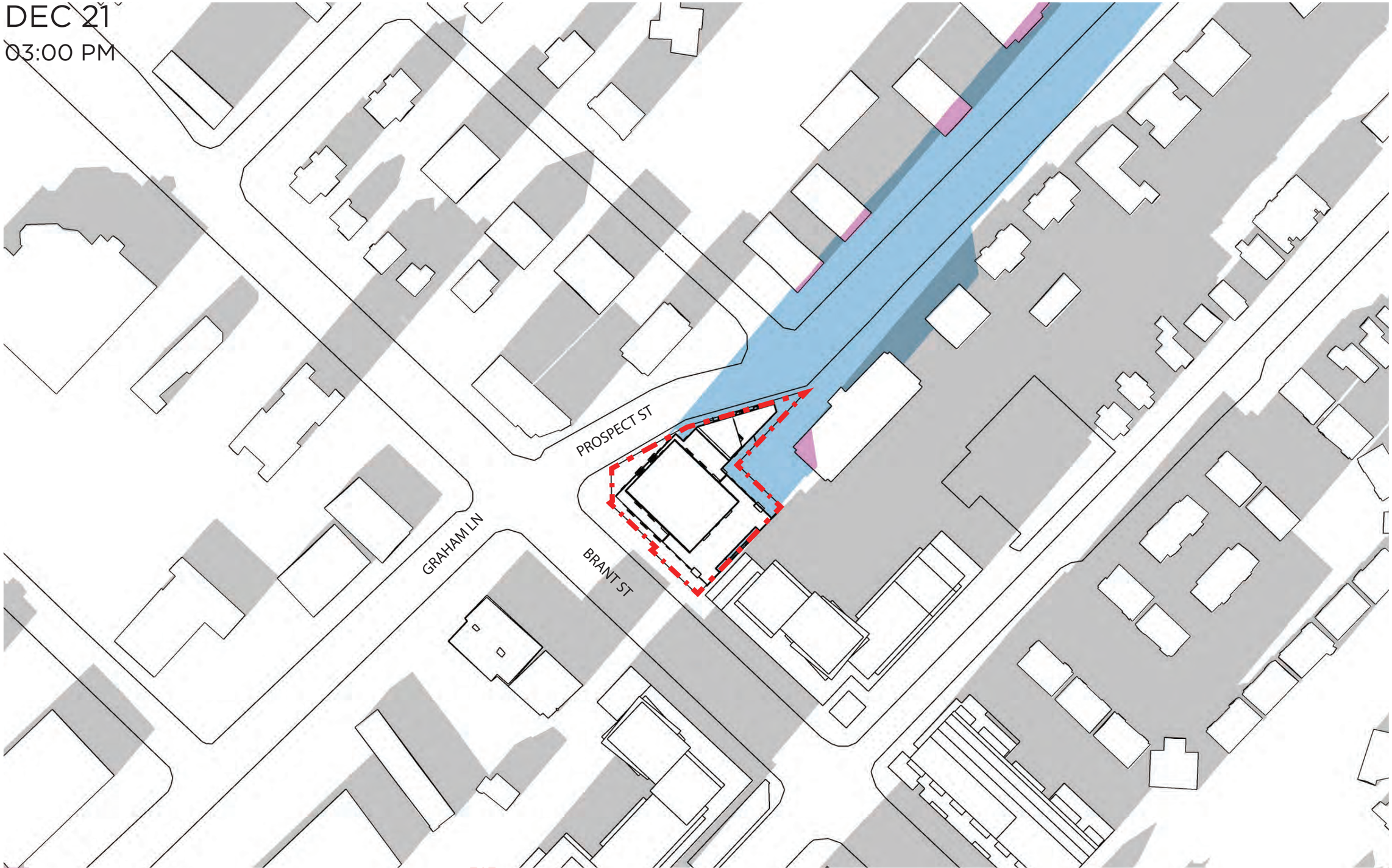
N

25 m 50 m 100 m

SCALE = 1:1650

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

DEC 21
03:00 PM



NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

OPEN SPACE

N

25 m 50 m 100 m

SCALE = 1:1650

RAW

SHADOW STUDY
21001 - 795 BRANT
AUGUST 22, 2022

SUN ACCESS FACTOR CALCULATIONS

PRIVATE OUTDOOR AMENITY AREA - RESIDENTIAL REAR YARD

1. Total area of adjacent residential amenity (A_T) = 2330m²
2. Areas exposed to sunshine at each hourly test time ($AS_{(test)}$).

09:00 ($AS_{(test-09:00)}$) = 1,133 m²
10:00 ($AS_{(test-10:00)}$) = 1,643 m²
11:00 ($AS_{(test-11:00)}$) = 1,882 m²
12:00 ($AS_{(test-12:00)}$) = 1,982 m²
13:00 ($AS_{(test-13:00)}$) = 2,026 m²
14:00 ($AS_{(test-14:00)}$) = 2,153 m²
15:00 ($AS_{(test-15:00)}$) = 2,224 m²
16:00 ($AS_{(test-16:00)}$) = 1,871 m²
17:00 ($AS_{(test-17:00)}$) = 481 m²
18:00 ($AS_{(test-18:00)}$) = 1,421 m²

Number of test times = 10

3. The averages for the nine one-hour intervals ($AS_{(interval)}$):

09:00-10:00 ($AS_{(interval-09:00-10:00)}$) = (1,133 m² + 1,643 m²) ÷ 2 = 1388 m²
10:00-11:00 ($AS_{(interval-10:00-11:00)}$) = (1,643 m² + 1,882 m²) ÷ 2 = 1762.5 m²
11:00-12:00 ($AS_{(interval-11:00-12:00)}$) = (1,882 m² + 1,982 m²) ÷ 2 = 1932m²
12:00-13:00 ($AS_{(interval-12:00-13:00)}$) = (1,982 m² + 2,026 m²) ÷ 2 = 2004 m²
13:00-14:00 ($AS_{(interval-13:00-14:00)}$) = (2,026 m² + 2,153 m²) ÷ 2 = 2089.5 m²
14:00-15:00 ($AS_{(interval-14:00-15:00)}$) = (2,153 m² + 2,224 m²) ÷ 2 = 2188.5 m²
15:00-16:00 ($AS_{(interval-15:00-16:00)}$) = (2,224 m² + 1,871 m²) ÷ 2 = 2047.5 m²
16:00-17:00 ($AS_{(interval-16:00-17:00)}$) = (1,871 m² + 481 m²) ÷ 2 = 1176 m²
17:00-18:00 ($AS_{(interval-11:00-12:00)}$) = (481 m² + 1,421 m²) ÷ 2 = 951 m²

Number of test intervals = 9

Sum of ($AS_{(interval)}$) = 15539 m²

4. The overall average area in sunshine ($AS_{(average)}$) = [sum of ($AS_{(interval)}$)] ÷ [# of intervals]

= 15539 m² ÷ 9

= 1726.6 m²

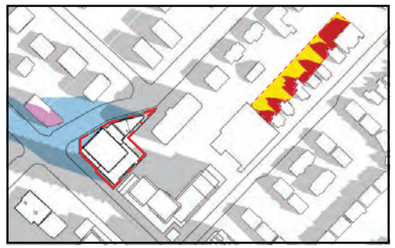
5. SAF = ($AS_{(average)}$) ÷ A_T

= 1726.6 m² ÷ 2330 m²

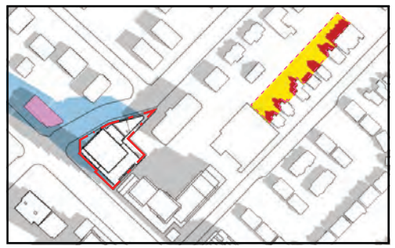
= 0.741 m²

0.741 is greater than 0.22. Therefore, the SAF meets the criteria.

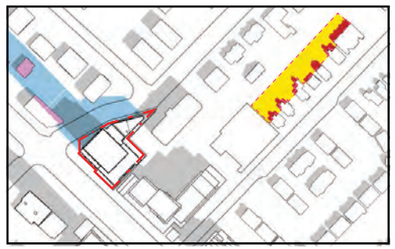
MARCH 21



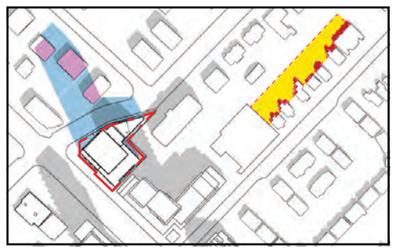
09:00 AM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 2,330 m²
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 1,133 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 1,200 m²



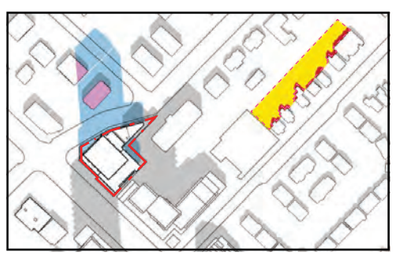
10:00 AM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 2,330 m²
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 1,643 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 680 m²



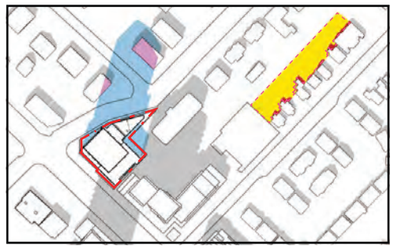
11:00 AM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 2,330 m²
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 1,882 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 436 m²



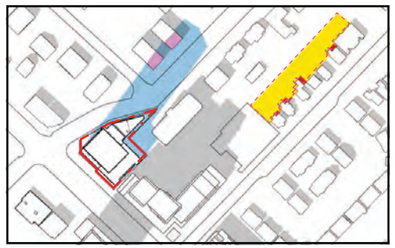
12:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 2,330 m²
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 1,982 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 345 m²



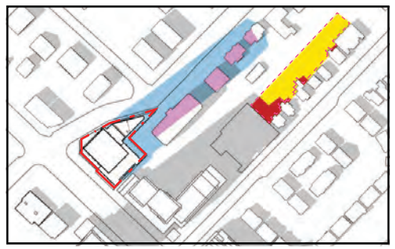
01:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 2,330 m²
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 2,026 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 303 m²



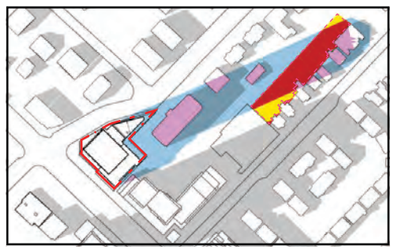
02:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 2,330 m²
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 2,153 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 179 m²



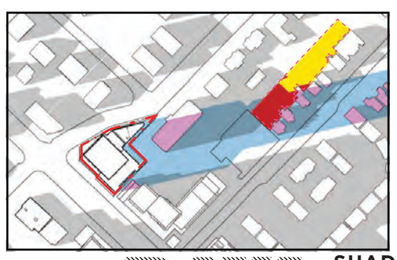
03:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 2,330 m²
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 2,224 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 98 m²



04:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 2,330 m²
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 1,871 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 458 m²



05:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 2,330 m²
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 481 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 1,859 m²



06:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 2,330 m²
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 1,421 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 918 m²

NET NEW SHADOWS CAST ON ROOF SURFACES
NET NEW SHADOWS CAST ON GROUND SURFACES
SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY
PRIVATE OUTDOOR AMENITY AREA

RAW

SHADOW STUDY
21001 - 795 BRANT
BURLINGTON, ON
AUGUST 22, 2022

SUN ACCESS FACTOR CALCULATIONS

PRIVATE OUTDOOR AMENITY AREA - ROOFTOP PATIO

1. Total area of adjacent residential amenity (A_T) = 451.1 m^2
2. Areas exposed to sunshine at each hourly test time ($AS_{(test)}$).

09:00 ($AS_{(test\text{-}09:00)}$) = 451.1 m^2

10:00 ($AS_{(test\text{-}10:00)}$) = 451.1 m^2

11:00 ($AS_{(test\text{-}11:00)}$) = 451.1 m^2

12:00 ($AS_{(test\text{-}12:00)}$) = 451.1 m^2

13:00 ($AS_{(test\text{-}13:00)}$) = 451.1 m^2

14:00 ($AS_{(test\text{-}14:00)}$) = 451.1 m^2

15:00 ($AS_{(test\text{-}15:00)}$) = 451.1 m^2

16:00 ($AS_{(test\text{-}16:00)}$) = 451.1 m^2

17:00 ($AS_{(test\text{-}17:00)}$) = 451.1 m^2

18:00 ($AS_{(test\text{-}18:00)}$) = 451.1 m^2

Number of test times = 10

3. The averages for the nine one-hour intervals ($AS_{(interval)}$):

09:00-10:00 ($AS_{(interval\text{-}09:00\text{-}10:00)}$) = (451.1 m^2 + 451.1 m^2) ÷ 2 = 902.2 m^2

10:00-11:00 ($AS_{(interval\text{-}10:00\text{-}11:00)}$) = (451.1 m^2 + 451.1 m^2) ÷ 2 = 902.2 m^2

11:00-12:00 ($AS_{(interval\text{-}11:00\text{-}12:00)}$) = (451.1 m^2 + 451.1 m^2) ÷ 2 = 902.2 m^2

12:00-13:00 ($AS_{(interval\text{-}12:00\text{-}13:00)}$) = (451.1 m^2 + 451.1 m^2) ÷ 2 = 902.2 m^2

13:00-14:00 ($AS_{(interval\text{-}13:00\text{-}14:00)}$) = (451.1 m^2 + 451.1 m^2) ÷ 2 = 902.2 m^2

14:00-15:00 ($AS_{(interval\text{-}14:00\text{-}15:00)}$) = (451.1 m^2 + 451.1 m^2) ÷ 2 = 902.2 m^2

15:00-16:00 ($AS_{(interval\text{-}15:00\text{-}16:00)}$) = (451.1 m^2 + 451.1 m^2) ÷ 2 = 902.2 m^2

16:00-17:00 ($AS_{(interval\text{-}16:00\text{-}17:00)}$) = (451.1 m^2 + 451.1 m^2) ÷ 2 = 902.2 m^2

17:00-18:00 ($AS_{(interval\text{-}11:00\text{-}12:00)}$) = (451.1 m^2 + 451.1 m^2) ÷ 2 = 902.2 m^2

Number of test intervals = 9

Sum of ($AS_{(interval)}$) = 8119.8 m^2

4. The overall average area in sunshine ($AS_{(average)}$) = [sum of ($AS_{(interval)}$)] ÷ [# of intervals]

= 8119.8 m^2 ÷ 9

= 902.2 m^2

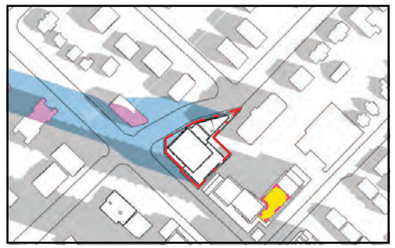
5. SAF = ($AS_{(average)}$) ÷ A_T

= 902.2 m^2 ÷ 902.2 m^2

= 1 m^2

1 is greater than 0.22. Therefore, the SAF meets the criteria.

MARCH 21



09:00 AM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 451.1 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 451.1
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 0 m^2



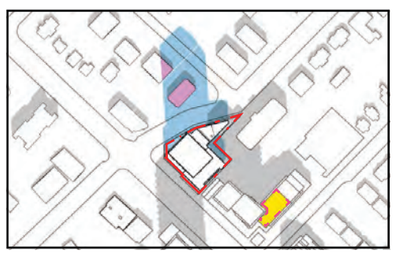
10:00 AM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 451.1 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 451.1
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 0 m^2



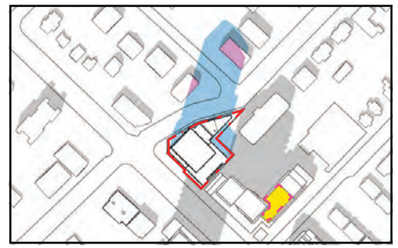
11:00 AM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 451.1 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 451.1
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 0 m^2



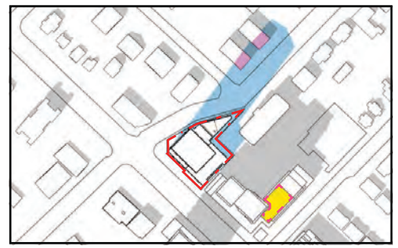
12:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 451.1 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 451.1
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 0 m^2



01:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 451.1 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 451.1
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 0 m^2



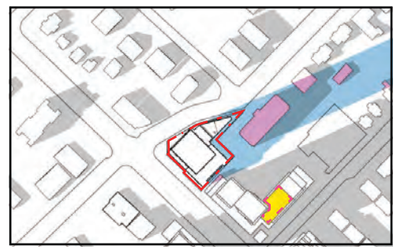
02:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 451.1 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 451.1
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 0 m^2



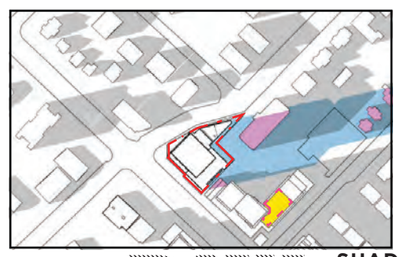
03:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 451.1 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 451.1
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 0 m^2



04:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 451.1 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 451.1
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 0 m^2



05:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 451.1 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 451.1
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 0 m^2



06:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 451.1 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 451.1
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 0 m^2

NET NEW SHADOWS CAST ON ROOF SURFACES

NET NEW SHADOWS CAST ON GROUND SURFACES

SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

PRIVATE OUTDOOR AMENITY AREA

RAW

SHADOW STUDY
21001 - 795 BRANT
BURLINGTON, ON
AUGUST 22, 2022

SUN ACCESS FACTOR CALCULATIONS

PUBLIC REALMS AND SIDEWALKS - Projected onto Prospect St

1. Total area of adjacent residential amenity (A_T) = 1,800 m^2
2. Areas exposed to sunshine at each hourly test time ($AS_{(test)}$).

09:00 ($AS_{(test\text{-}09:00)}$) = 313 m^2
10:00 ($AS_{(test\text{-}10:00)}$) = 483 m^2
11:00 ($AS_{(test\text{-}11:00)}$) = 495 m^2
12:00 ($AS_{(test\text{-}12:00)}$) = 577 m^2
13:00 ($AS_{(test\text{-}13:00)}$) = 524 m^2
14:00 ($AS_{(test\text{-}14:00)}$) = 665 m^2
15:00 ($AS_{(test\text{-}15:00)}$) = 1,391 m^2
16:00 ($AS_{(test\text{-}16:00)}$) = 1,665 m^2
17:00 ($AS_{(test\text{-}17:00)}$) = 1,594 m^2
18:00 ($AS_{(test\text{-}18:00)}$) = 1,120 m^2

Number of test times = 10

3. The averages for the nine one-hour intervals ($AS_{(interval)}$):

09:00-10:00 ($AS_{(interval\text{-}09:00\text{-}10:00)}$) = (313 m^2 + 483 m^2) ÷ 2 = 398 m^2
10:00-11:00 ($AS_{(interval\text{-}10:00\text{-}11:00)}$) = (483 m^2 + 495 m^2) ÷ 2 = 489 m^2
11:00-12:00 ($AS_{(interval\text{-}11:00\text{-}12:00)}$) = (495 m^2 + 577 m^2) ÷ 2 = 536 m^2
12:00-13:00 ($AS_{(interval\text{-}12:00\text{-}13:00)}$) = (577 m^2 + 524 m^2) ÷ 2 = 550.5 m^2
13:00-14:00 ($AS_{(interval\text{-}13:00\text{-}14:00)}$) = (524 m^2 + 665 m^2) ÷ 2 = 594.5 m^2
14:00-15:00 ($AS_{(interval\text{-}14:00\text{-}15:00)}$) = (665 m^2 + 1,391 m^2) ÷ 2 = 1,028 m^2
15:00-16:00 ($AS_{(interval\text{-}15:00\text{-}16:00)}$) = (1,391 m^2 + 1,665 m^2) ÷ 2 = 1,528 m^2
16:00-17:00 ($AS_{(interval\text{-}16:00\text{-}17:00)}$) = (1,665 m^2 + 1,594 m^2) ÷ 2 = 1,629.5 m^2
17:00-18:00 ($AS_{(interval\text{-}11:00\text{-}12:00)}$) = (1,594 m^2 + 1,120 m^2) ÷ 2 = 1,357 m^2

Number of test intervals = 9

Sum of ($AS_{(interval)}$) = 8110.5 m^2

4. The overall average area in sunshine ($AS_{(average)}$) = [sum of ($AS_{(interval)}$)] ÷ [# of intervals]

= 8106.5 m^2 ÷ 9

= 901 m^2

5. SAF = ($AS_{(average)}$) ÷ A_T

= 901 m^2 ÷ 1,800 m^2

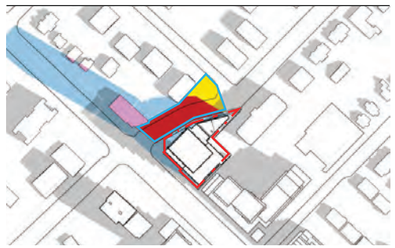
=0.5 m^2

0.5 is equal to 0.5. Therefore, the SAF meets the criteria.

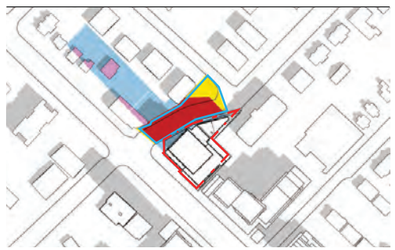
MARCH 21



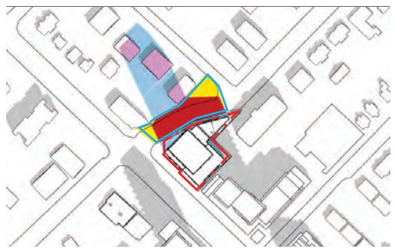
09:00 AM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 2,046 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 984 m^2
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 1063 m^2



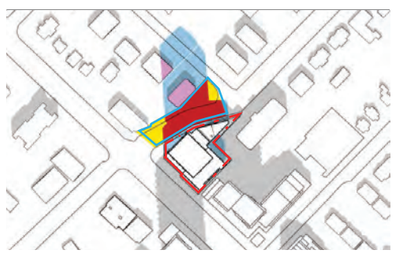
10:00 AM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 2,046 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 1,699 m^2
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 347 m^2



11:00 AM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 2,046 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 1,356 m^2
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 691 m^2



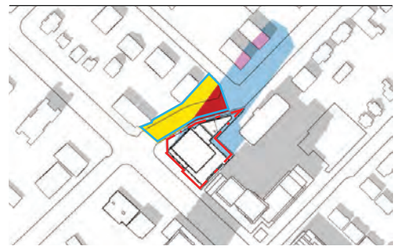
12:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 2,046 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 539 m^2
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 1,507 m^2



01:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 2,046 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 790 m^2
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 1,257 m^2



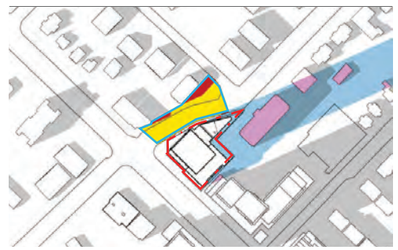
02:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 2,046 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 1,515 m^2
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 530 m^2



03:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 2,046 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 1,722 m^2
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 311 m^2



04:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 2,046 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 1,619 m^2
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 426 m^2



05:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 2,046 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 1,387 m^2
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 658 m^2



06:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 2,046 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 1,144 m^2
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 904 m^2

NET NEW SHADOWS CAST ON ROOF SURFACES
NET NEW SHADOWS CAST ON GROUND SURFACES
SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES
SITE BOUNDARY
PUBLIC REALM AND SIDEWALK

RAW

SHADOW STUDY
21001 - 795 BRANT
BURLINGTON, ON
AUGUST 22, 2022

SUN ACCESS FACTOR CALCULATIONS

PUBLIC REALMS AND SIDEWALKS - Projected onto Brant St

1. Total area of adjacent residential amenity (A_T) = 2,046 m^2
2. Areas exposed to sunshine at each hourly test time ($AS_{(test)}$).

09:00 ($AS_{(test-09:00)}$) = 984 m^2
10:00 ($AS_{(test-10:00)}$) = 1,699 m^2
11:00 ($AS_{(test-11:00)}$) = 1,356 m^2
12:00 ($AS_{(test-12:00)}$) = 539 m^2
13:00 ($AS_{(test-13:00)}$) = 790 m^2
14:00 ($AS_{(test-14:00)}$) = 1,515 m^2
15:00 ($AS_{(test-15:00)}$) = 1,722 m^2
16:00 ($AS_{(test-16:00)}$) = 1,619 m^2
17:00 ($AS_{(test-17:00)}$) = 1,387 m^2
18:00 ($AS_{(test-18:00)}$) = 1,144 m^2

Number of test times = 10

3. The averages for the nine one-hour intervals ($AS_{(interval)}$):

09:00-10:00 ($AS_{(interval-09:00-10:00)}$) = (984 m^2 + 1,699 m^2) ÷ 2 = 1,341.5 m^2
10:00-11:00 ($AS_{(interval-10:00-11:00)}$) = (1,699 m^2 + 1,356 m^2) ÷ 2 = 1,527.5 m^2
11:00-12:00 ($AS_{(interval-11:00-12:00)}$) = (1,356 m^2 + 539 m^2) ÷ 2 = 947.5 m^2
12:00-13:00 ($AS_{(interval-12:00-13:00)}$) = (539 m^2 + 790 m^2) ÷ 2 = 664.5 m^2
13:00-14:00 ($AS_{(interval-13:00-14:00)}$) = (790 m^2 + 1,515 m^2) ÷ 2 = 1,152.5 m^2
14:00-15:00 ($AS_{(interval-14:00-15:00)}$) = (1,515 m^2 + 1,722 m^2) ÷ 2 = 1,618.5 m^2
15:00-16:00 ($AS_{(interval-15:00-16:00)}$) = (1,722 m^2 + 1,619 m^2) ÷ 2 = 1,670.5 m^2
16:00-17:00 ($AS_{(interval-16:00-17:00)}$) = (1,619 m^2 + 1,387 m^2) ÷ 2 = 1,503 m^2
17:00-18:00 ($AS_{(interval-11:00-12:00)}$) = (1,387 m^2 + 1,144 m^2) ÷ 2 = 1,265.5 m^2

Number of test intervals = 9

Sum of ($AS_{(interval)}$) = 11,691 m^2

4. The overall average area in sunshine ($AS_{(average)}$) = [sum of ($AS_{(interval)}$)] ÷ [# of intervals]

= 11,691 m^2 ÷ 9

= 1,299 m^2

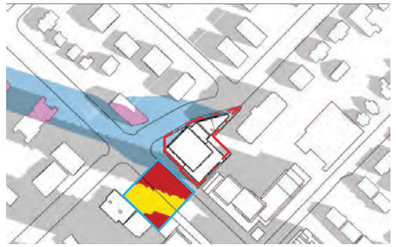
5. SAF = ($AS_{(average)}$) ÷ A_T

= 1,299 m^2 ÷ 2,046 m^2

=0.635 m^2

0.635 is greater than 0.5. Therefore, the SAF meets the criteria.

MARCH 21



09:00 AM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 1,800 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 313 m^2
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 1,596 m^2



10:00 AM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 1,800 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 483 m^2
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 1,432 m^2



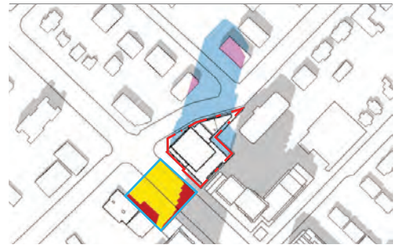
11:00 AM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 1,800 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 495 m^2
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 1,418 m^2



12:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 1,800 m^{22}
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 577 m^2
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 1,331 m^2



01:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 1,800 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 524 m^2
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 1,393 m^2



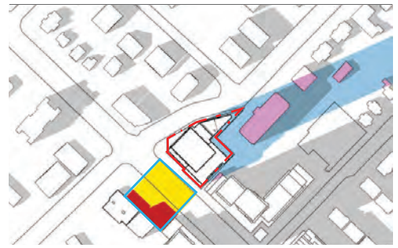
02:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 1,800 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 665 m^2
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 1247 m^2



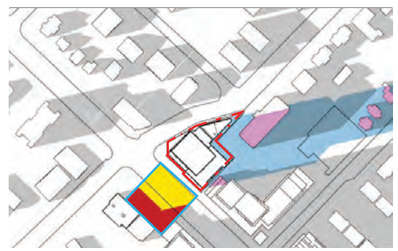
03:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 1,800 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 1,391 m^2
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 520 m^2



04:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 1,800 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 1,665 m^2
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 243 m^2



05:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 1,800 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 1,594 m^2
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 312 m^2



06:00 PM
ADJACENT RESIDENTIAL AMENITY SPACE
TOTAL AREA: 1,800 m^2
AREA EXPOSED TO SUNSHINE
($AS_{(test)}$): 1,120 m^2
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS): 787 m^2

NET NEW SHADOWS CAST ON ROOF SURFACES
NET NEW SHADOWS CAST ON GROUND SURFACES
SHADOWS CAST BY EXISTING BUILDINGS ON ALL SURFACES
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