

Shadow Study

1396 Guelph Line
Burlington, Ontario

21-027

03/08/22

zedd
ARCHITECTURE

This Shadow Study contemplates an 11 Storey building located at 1396 Guelph Line, Burlington, ON. This analysis compendium attests the proposed project matches all criteria required by the “Shadow Study Guidelines and Terms of Reference”. The particular aspects that relate to this site are: Private Outdoor Amenity Spaces, Public Realm, and Sidewalks. On the north and west side of the site, there are several private backyards. Across the Guelph Line, there is a public sidewalk/boulevard. The proposed masing results show a calculated SAF of 0.90 for Private Outdoor Amenity Spaces, passing the minimum requirement of 0.22. A SAF of 0.94 for Public Realm and Sidewalks is above the minimum requirement of 0.5 (Refer to Pages 40 and 41 of this report for calculations). In Conclusion, this study shows that the development meets the City of Burlington criteria.

ARCHITECTURE | DESIGN | PLANNING

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MARCH 21 900



NET SHADOW CAST ON GROUND SURFACES

NET SHADOW CAST ON ROOF SURFACES

SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

0m 125m 250m 375m 500m 625m

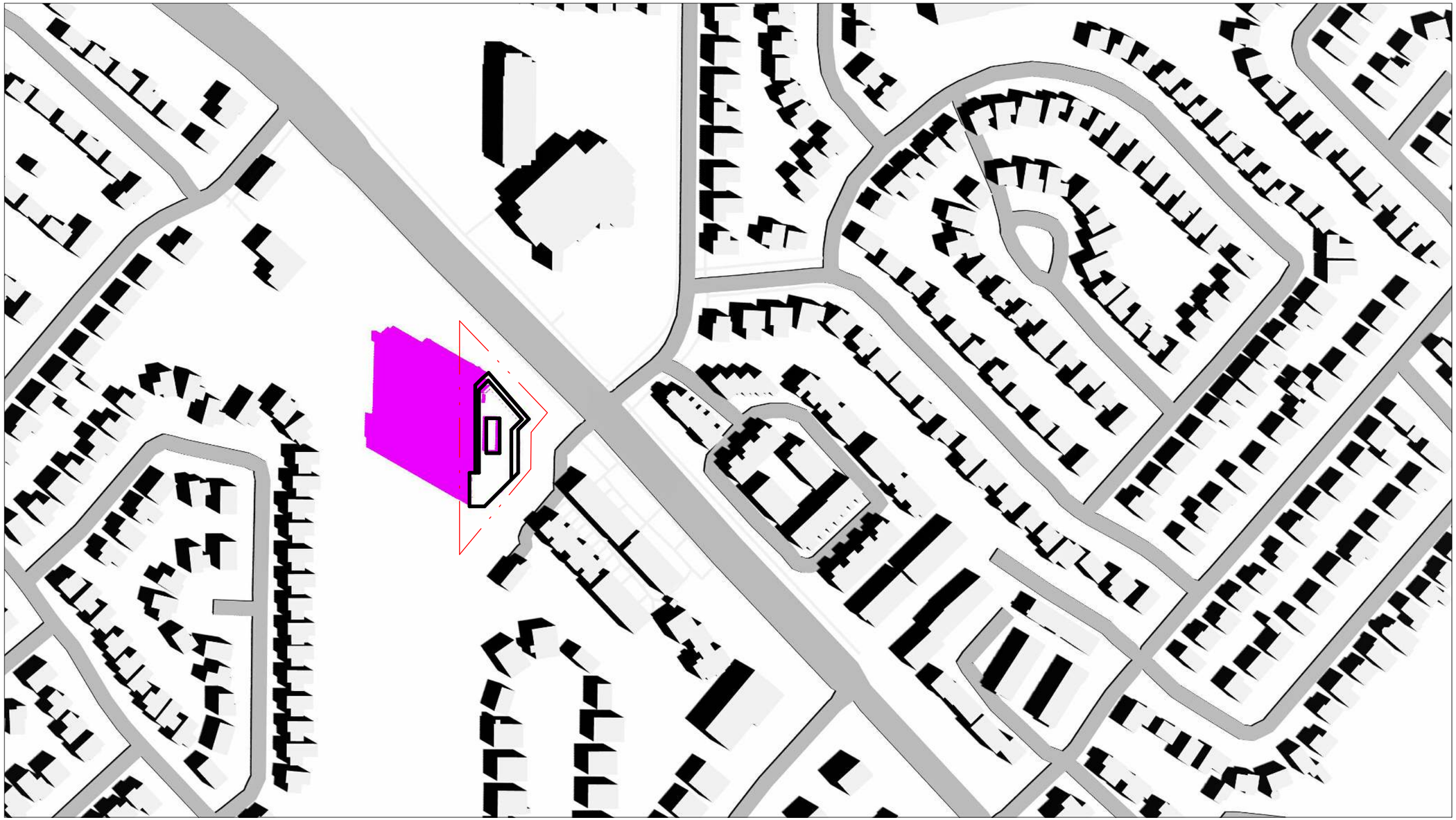
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MARCH 21 1000



NET SHADOW CAST ON GROUND SURFACES

NET SHADOW CAST ON ROOF SURFACES

SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

0m 125m 250m 375m 500m 625m

SITE BOUNDARY

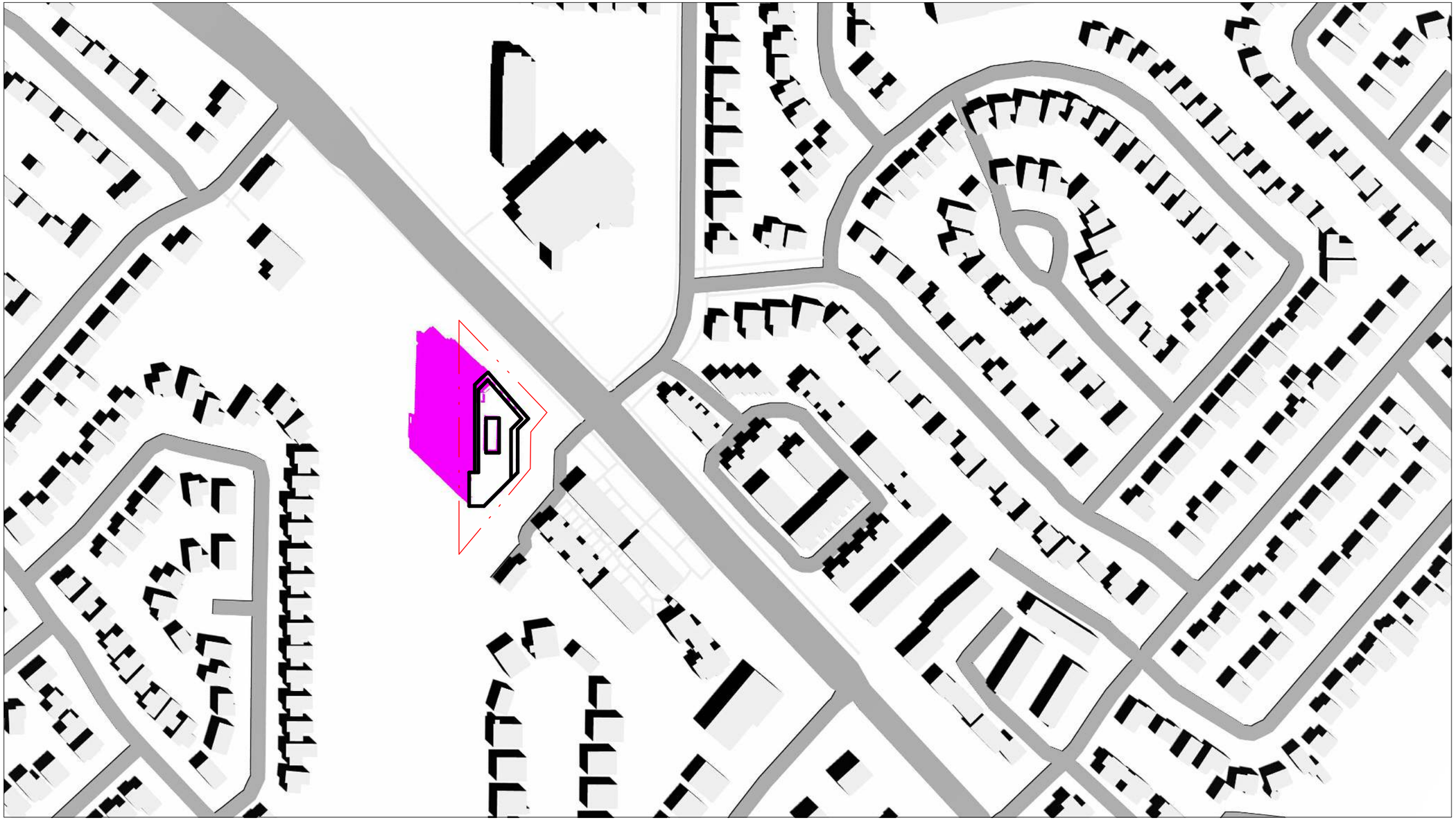
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NET SHADOW CAST ON GROUND SURFACES

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SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

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NET SHADOW CAST ON GROUND SURFACES

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SITE BOUNDARY

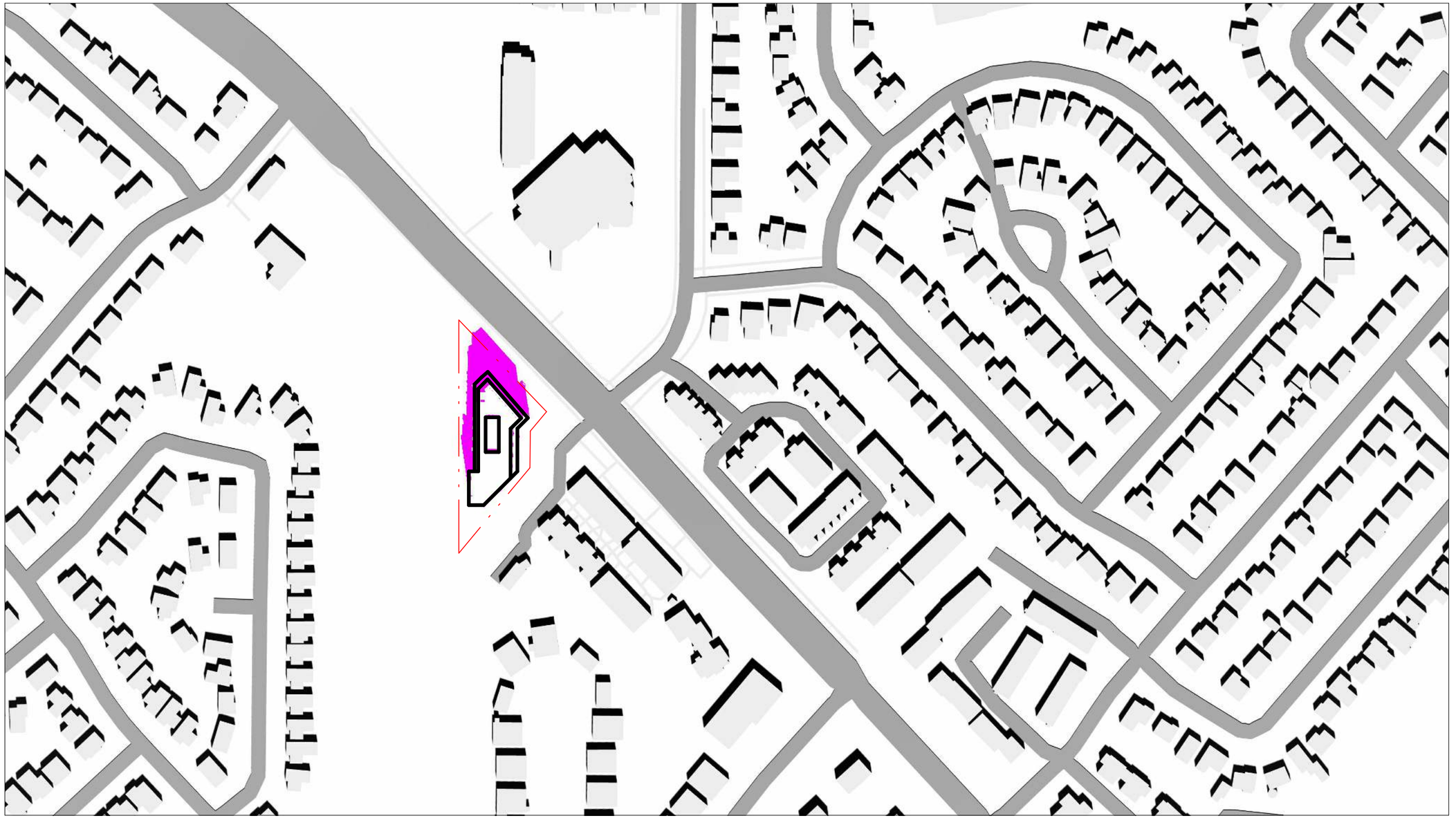
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NET SHADOW CAST ON GROUND SURFACES

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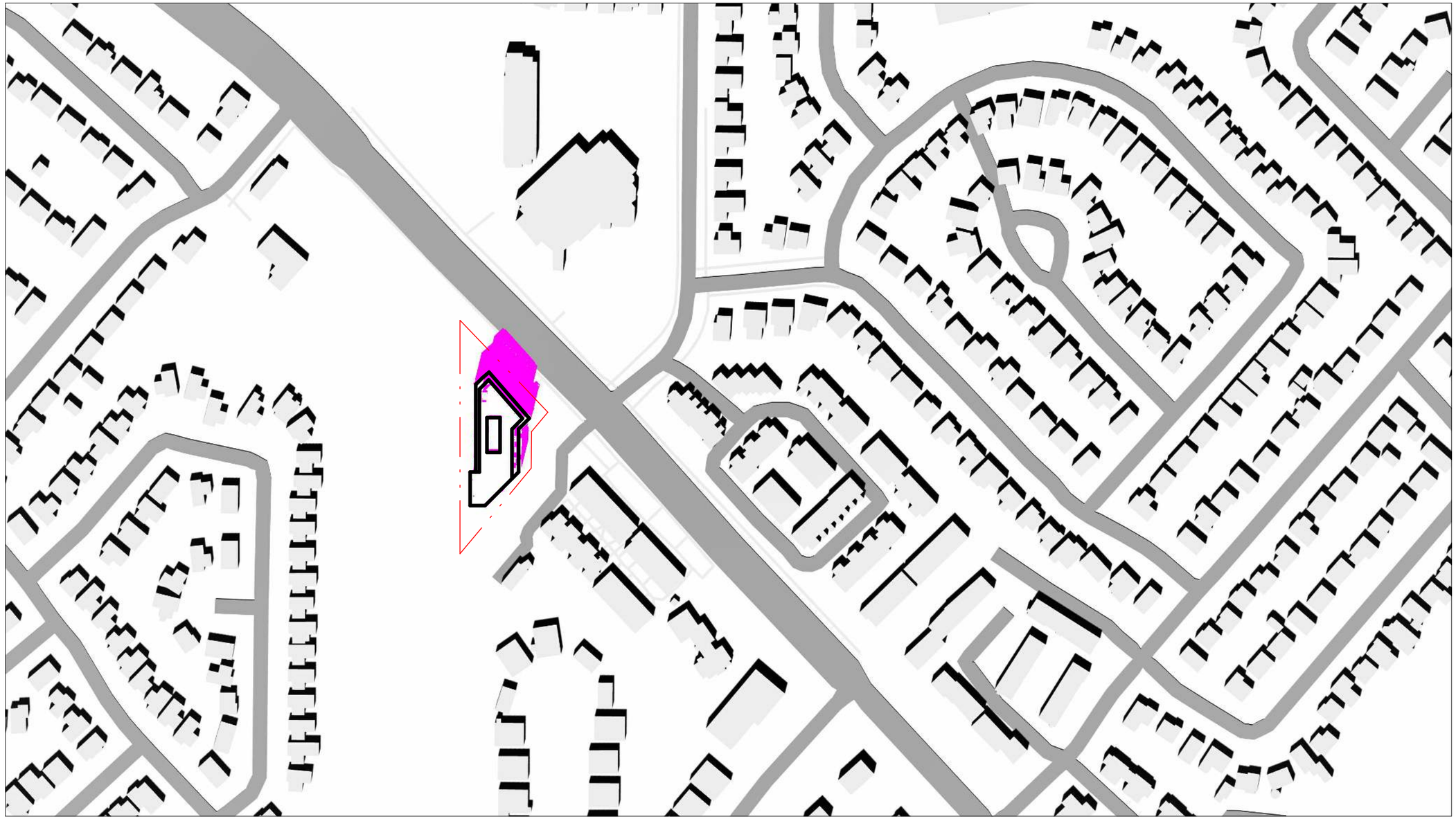
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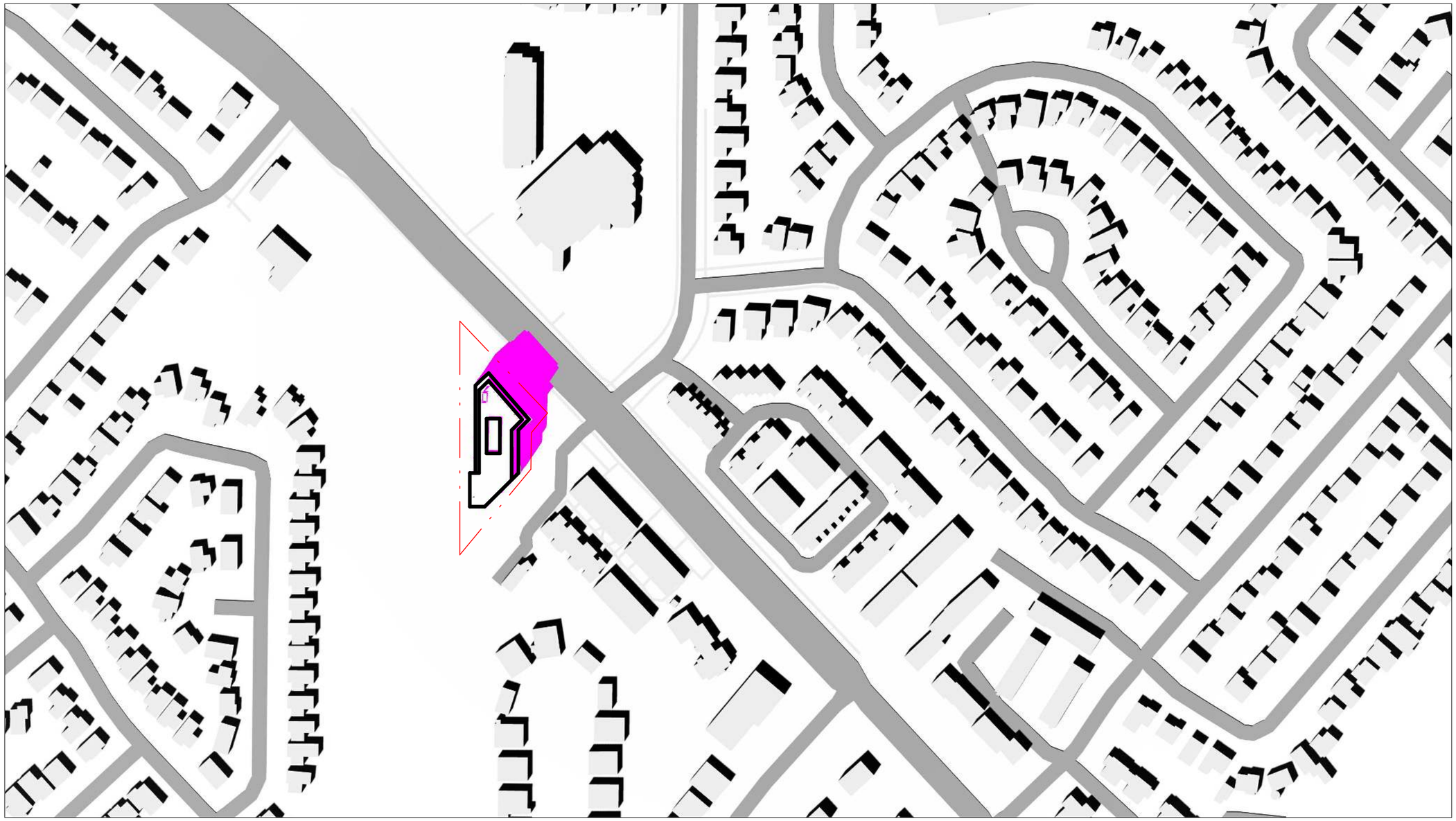
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MARCH 21 1500



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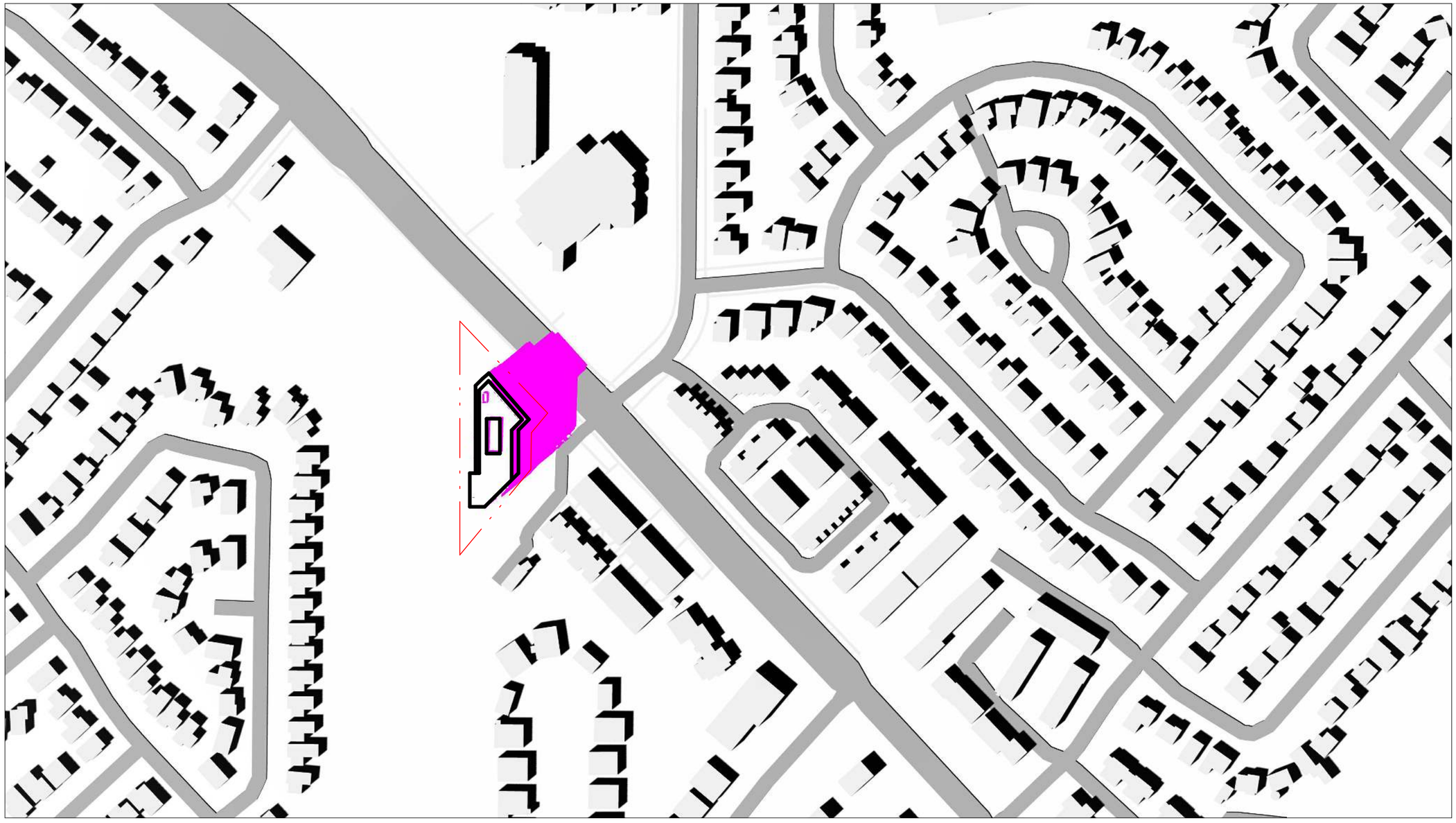
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SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

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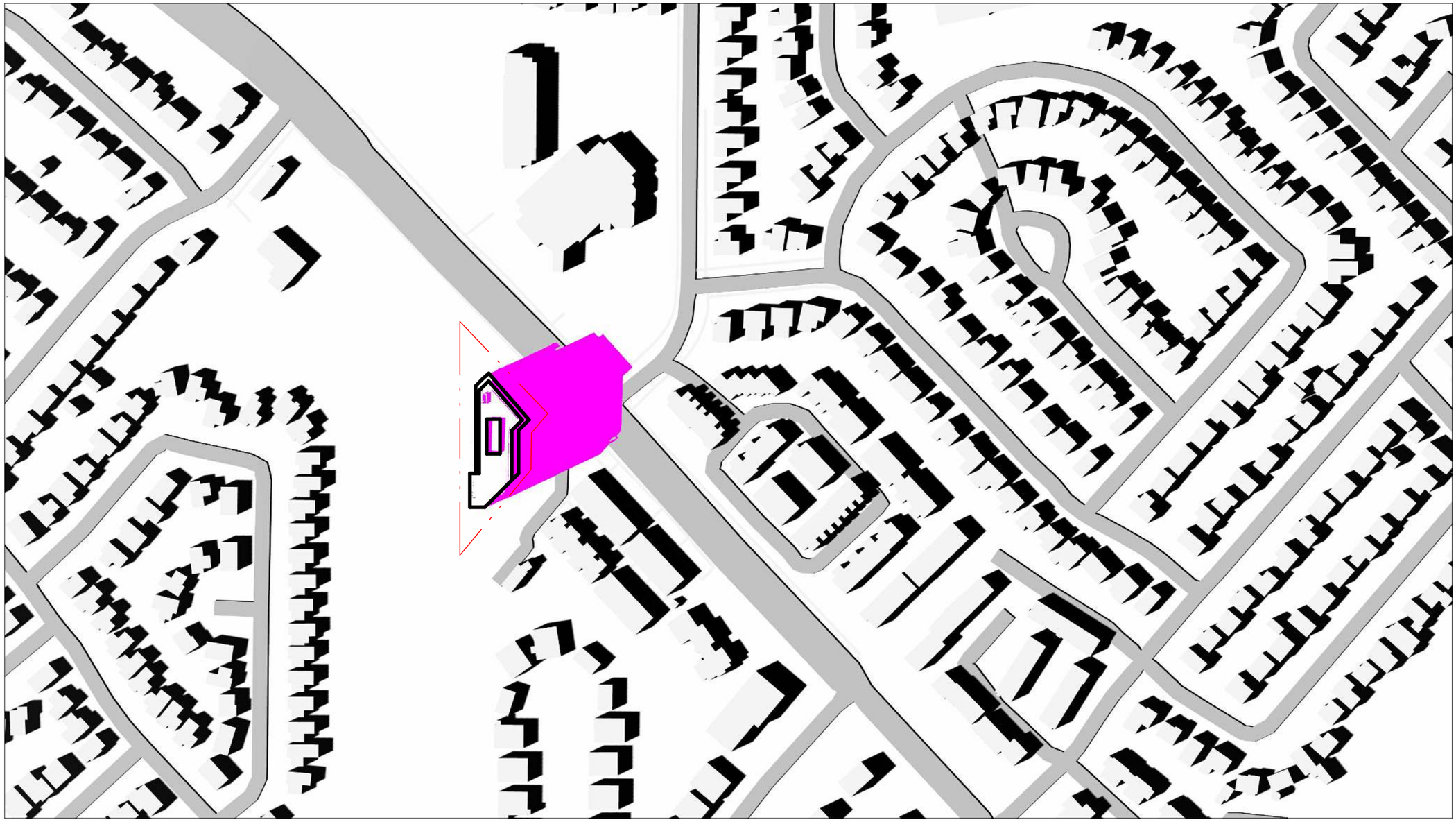
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MARCH 21 1700



NET SHADOW CAST ON GROUND SURFACES

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SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

0m 125m 250m 375m 500m 625m

SITE BOUNDARY

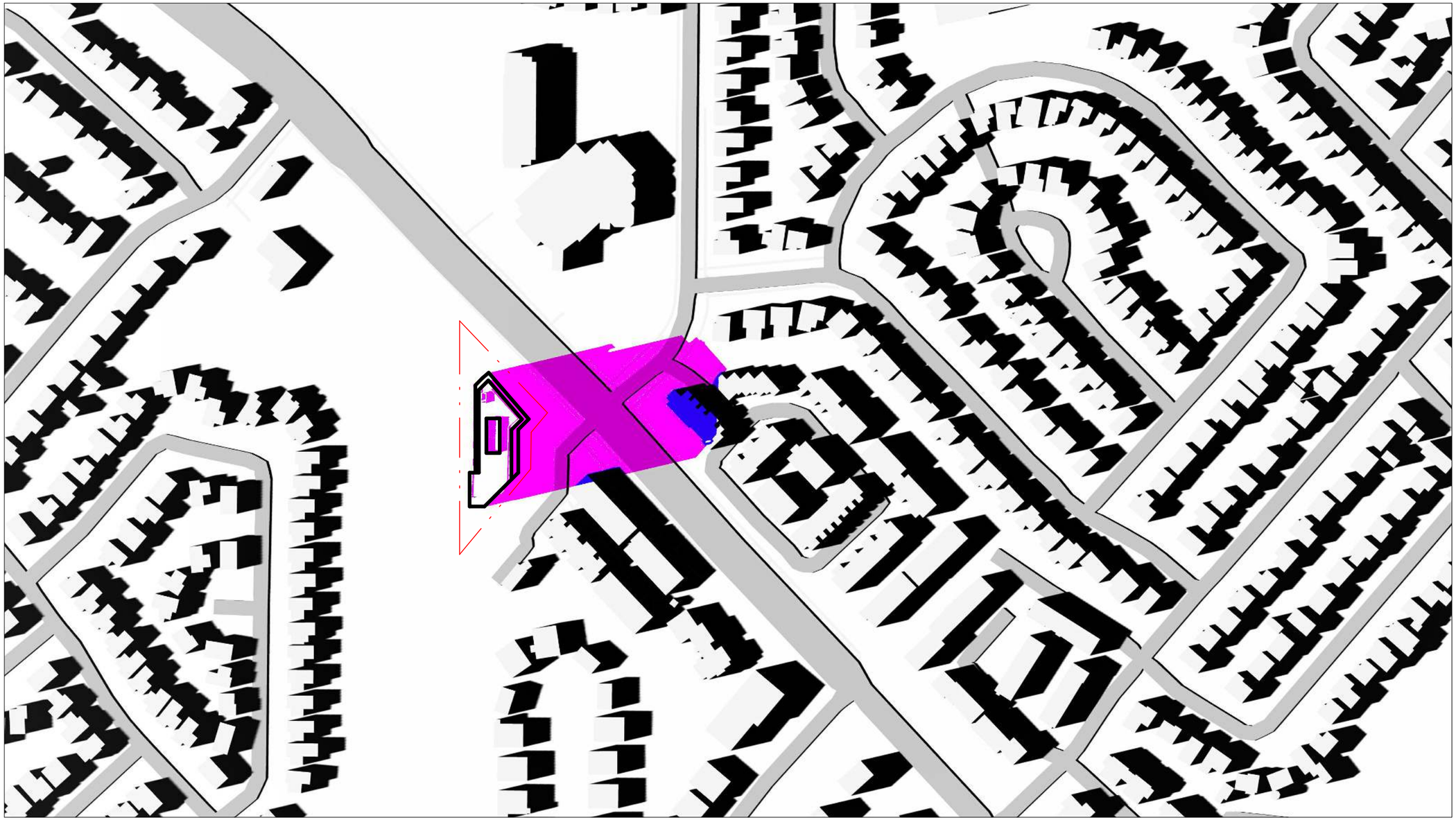
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MARCH 21 1800



NET SHADOW CAST ON GROUND SURFACES

NET SHADOW CAST ON ROOF SURFACES

SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

0m 125m 250m 375m 500m 625m

SITE BOUNDARY

Scale : 1 : 2500

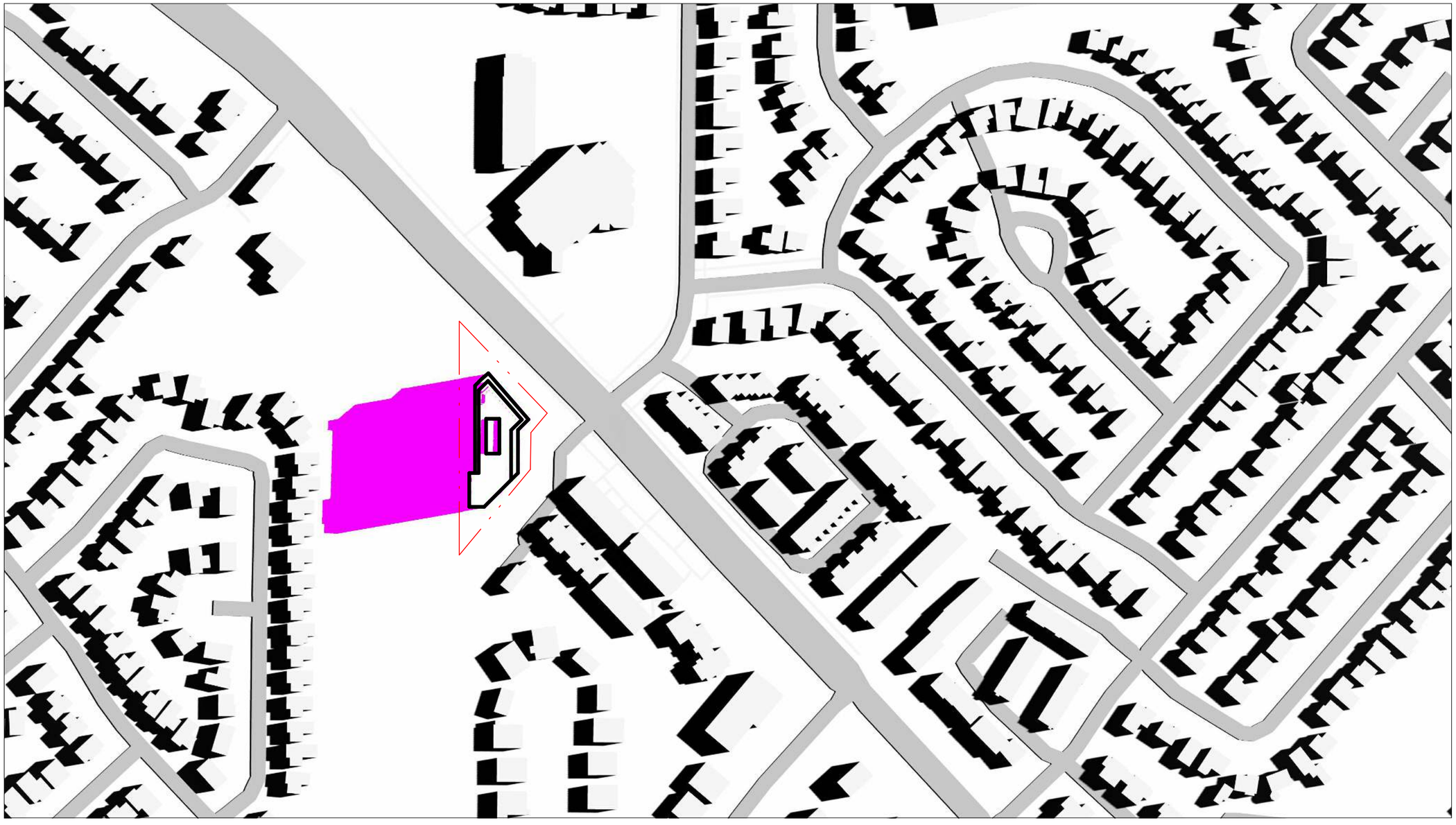
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JUNE 21 800



NET SHADOW CAST ON GROUND SURFACES

NET SHADOW CAST ON ROOF SURFACES

SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

0m 125m 250m 375m 500m 625m

SITE BOUNDARY

Scale : 1 : 2500

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JUNE 21 900



NET SHADOW CAST ON GROUND SURFACES

NET SHADOW CAST ON ROOF SURFACES

SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

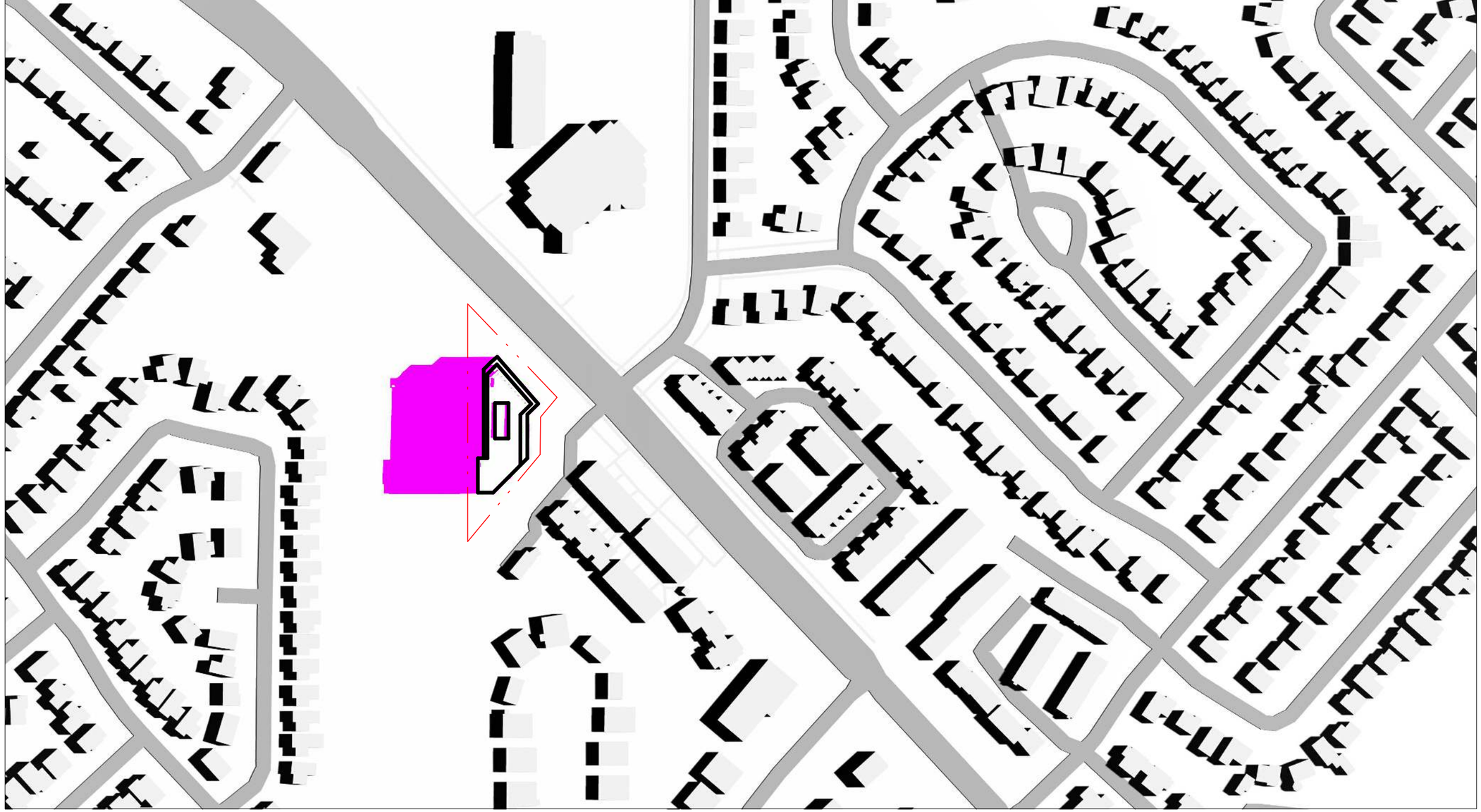
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NET SHADOW CAST ON ROOF SURFACES

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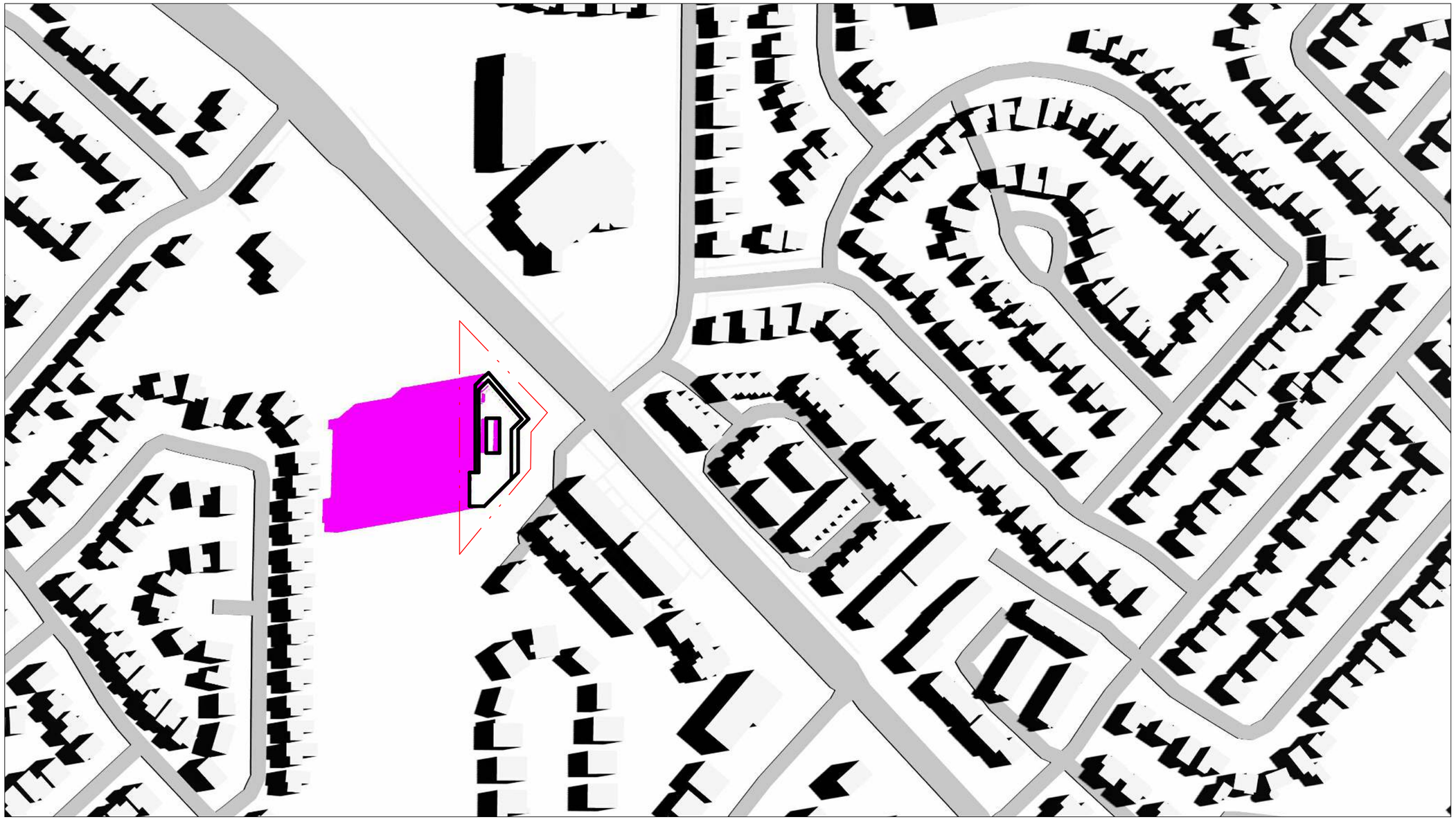
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JUNE 21 1100



NET SHADOW CAST ON GROUND SURFACES

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SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

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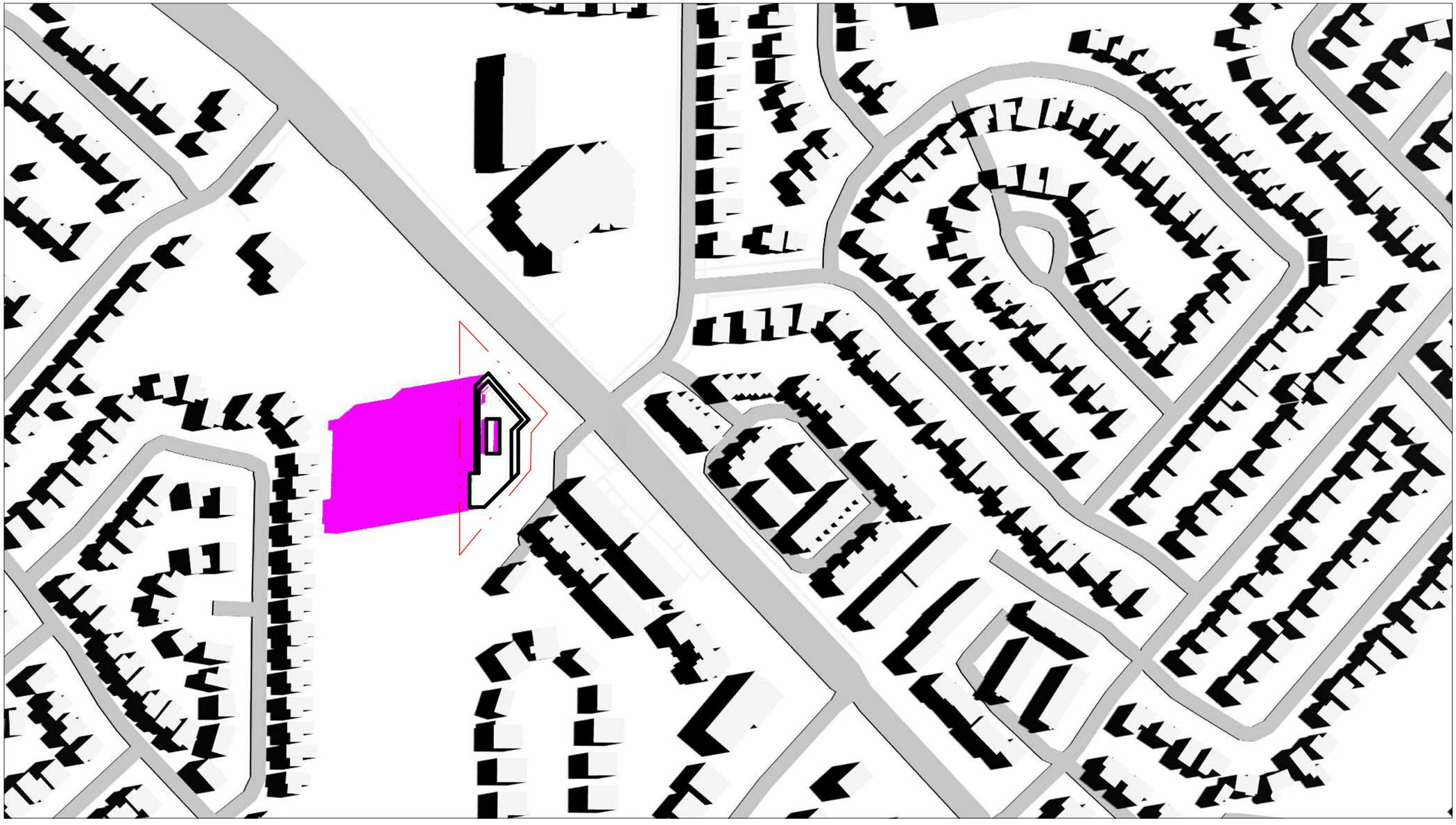
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NET SHADOW CAST ON GROUND SURFACES

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SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

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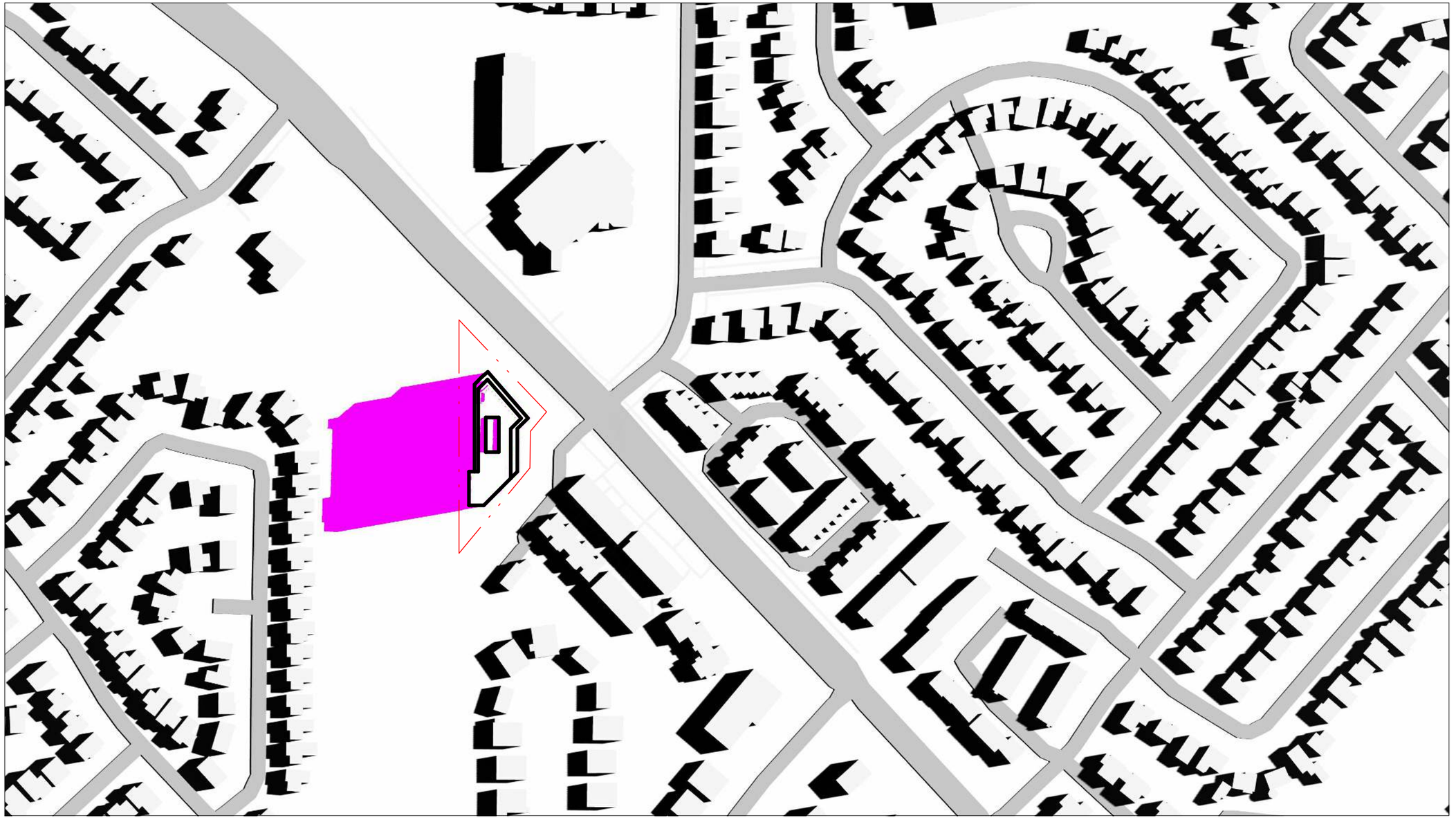
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JUNE 21 1300



NET SHADOW CAST ON GROUND SURFACES

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SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

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JUNE 21 1400



NET SHADOW CAST ON GROUND SURFACES

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SITE BOUNDARY

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JUNE 21 1600



NET SHADOW CAST ON GROUND SURFACES

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JUNE 21 1700



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JUNE 21 1800



NET SHADOW CAST ON GROUND SURFACES

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SEPTEMBER 21 900



NET SHADOW CAST ON GROUND SURFACES

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0m 125m 250m 375m 500m 625m

Scale : 1 : 2500

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SEPTEMBER 21 1000



NET SHADOW CAST ON GROUND SURFACES

NET SHADOW CAST ON ROOF SURFACES

SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

0m 125m 250m 375m 500m 625m

SITE BOUNDARY

Scale : 1 : 2500

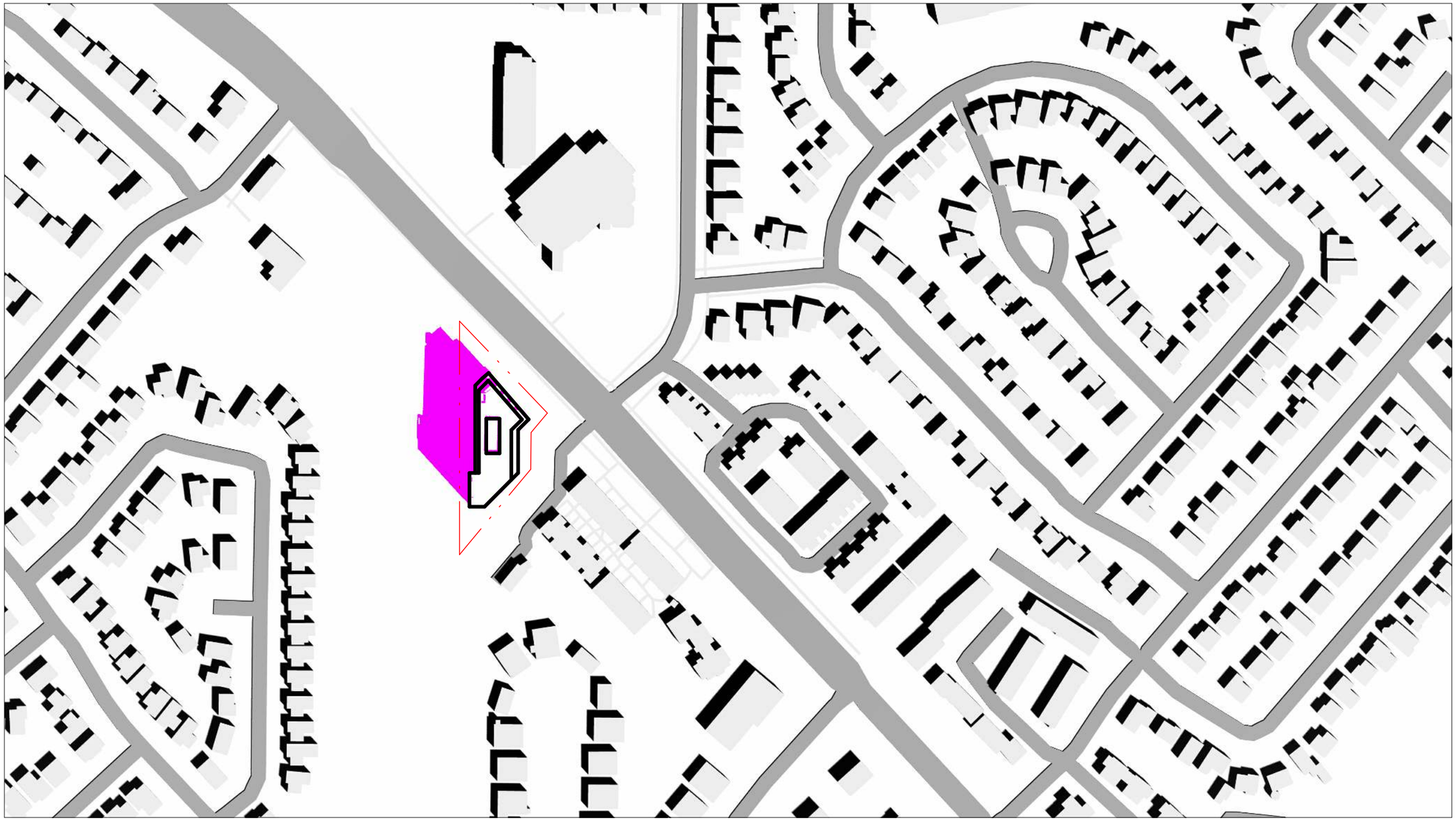
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SEPTEMBER 21 1100



NET SHADOW CAST ON GROUND SURFACES

NET SHADOW CAST ON ROOF SURFACES

SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

0m 125m 250m 375m 500m 625m

SITE BOUNDARY

Scale : 1 : 2500

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SEPTEMBER 21 1200



NET SHADOW CAST ON GROUND SURFACES

NET SHADOW CAST ON ROOF SURFACES

SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

0m 125m 250m 375m 500m 625m

Scale : 1 : 2500

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SEPTEMBER 21 1300



NET SHADOW CAST ON GROUND SURFACES

NET SHADOW CAST ON ROOF SURFACES

SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

0m 125m 250m 375m 500m 625m

SITE BOUNDARY

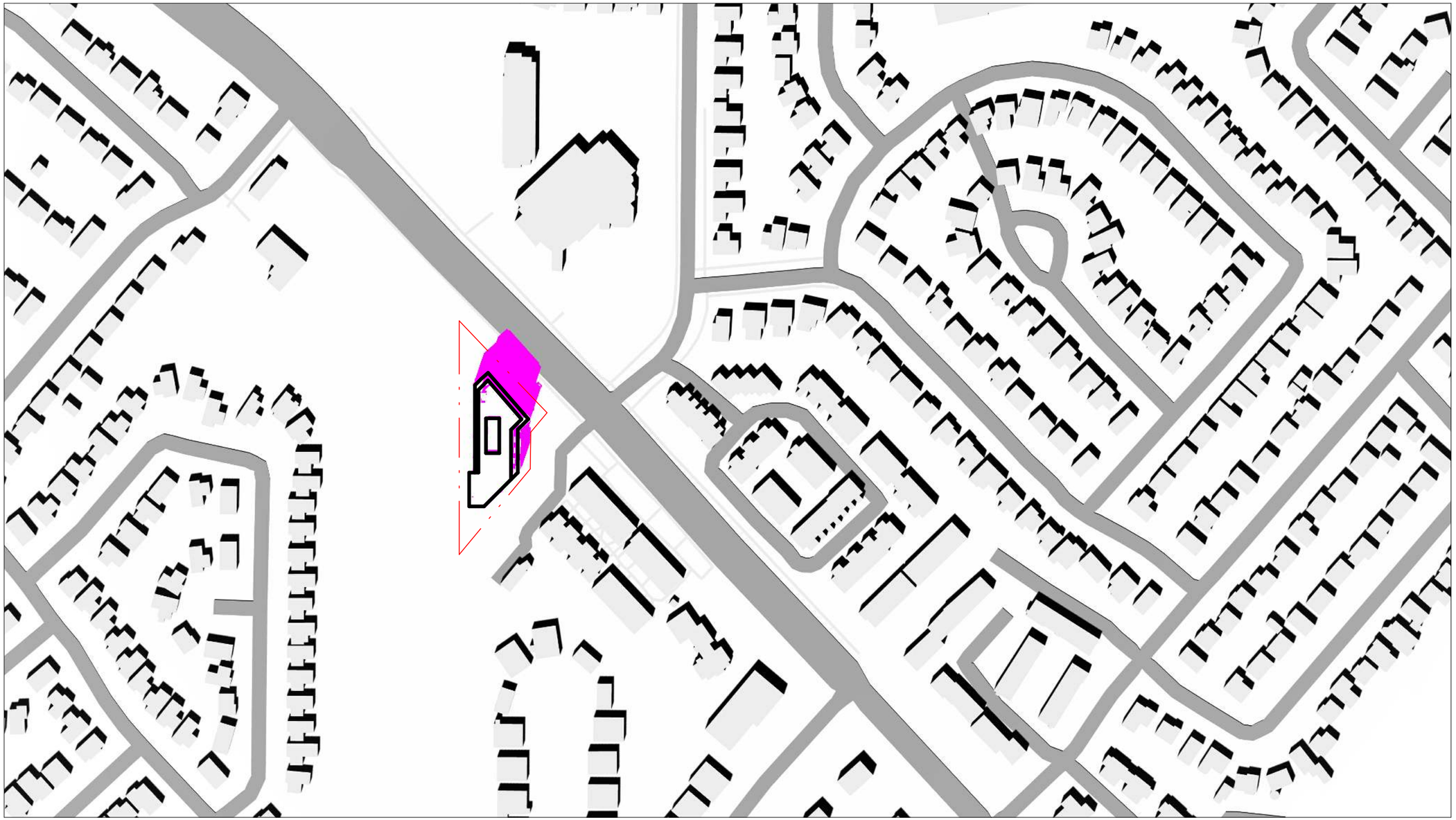
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NET SHADOW CAST ON GROUND SURFACES

NET SHADOW CAST ON ROOF SURFACES

SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

0m 125m 250m 375m 500m 625m

SITE BOUNDARY

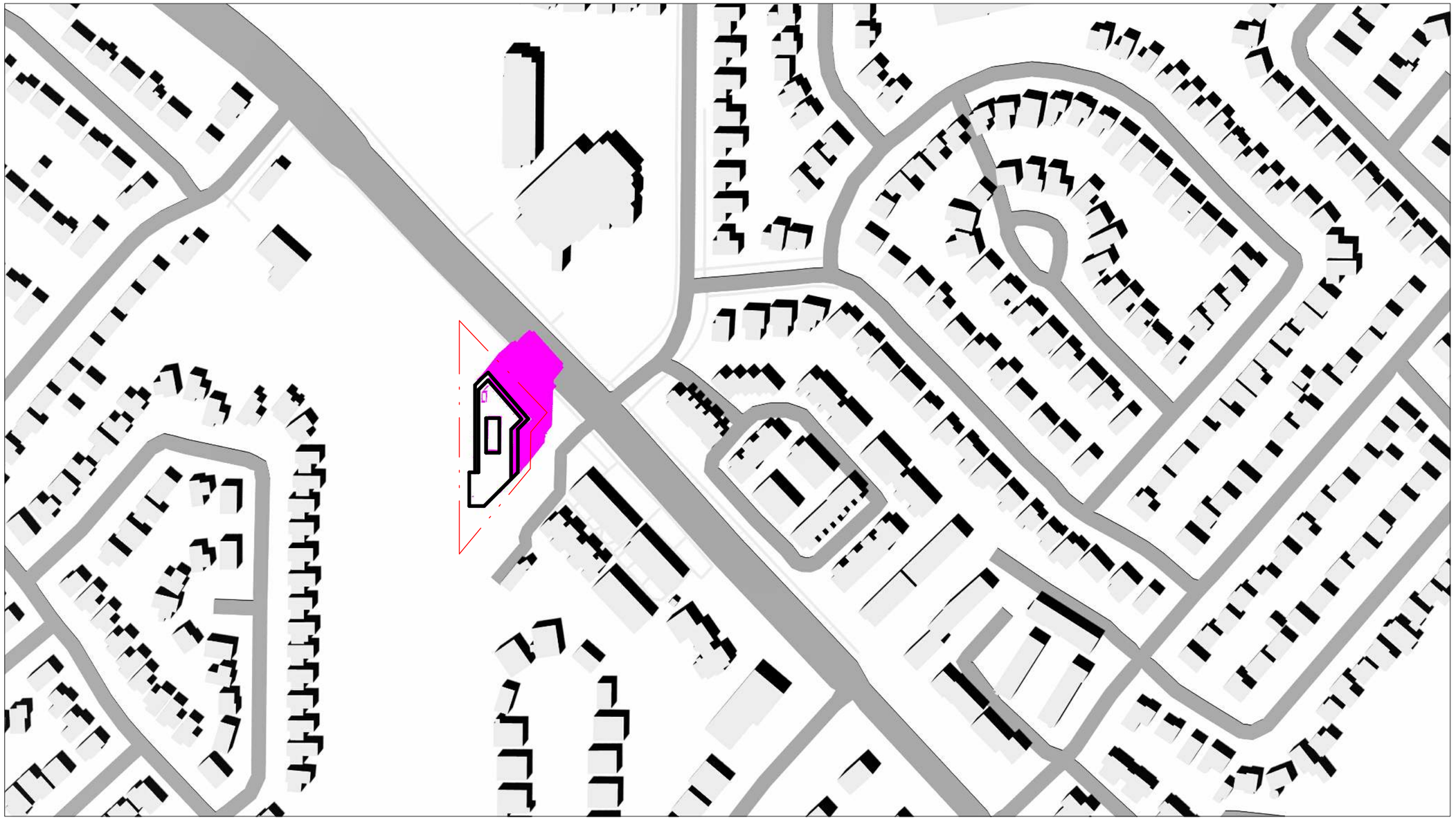
Scale : 1 : 2500

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SEPTEMBER 21 1500



NET SHADOW CAST ON GROUND SURFACES

NET SHADOW CAST ON ROOF SURFACES

SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

0m 125m 250m 375m 500m 625m

Scale : 1 : 2500

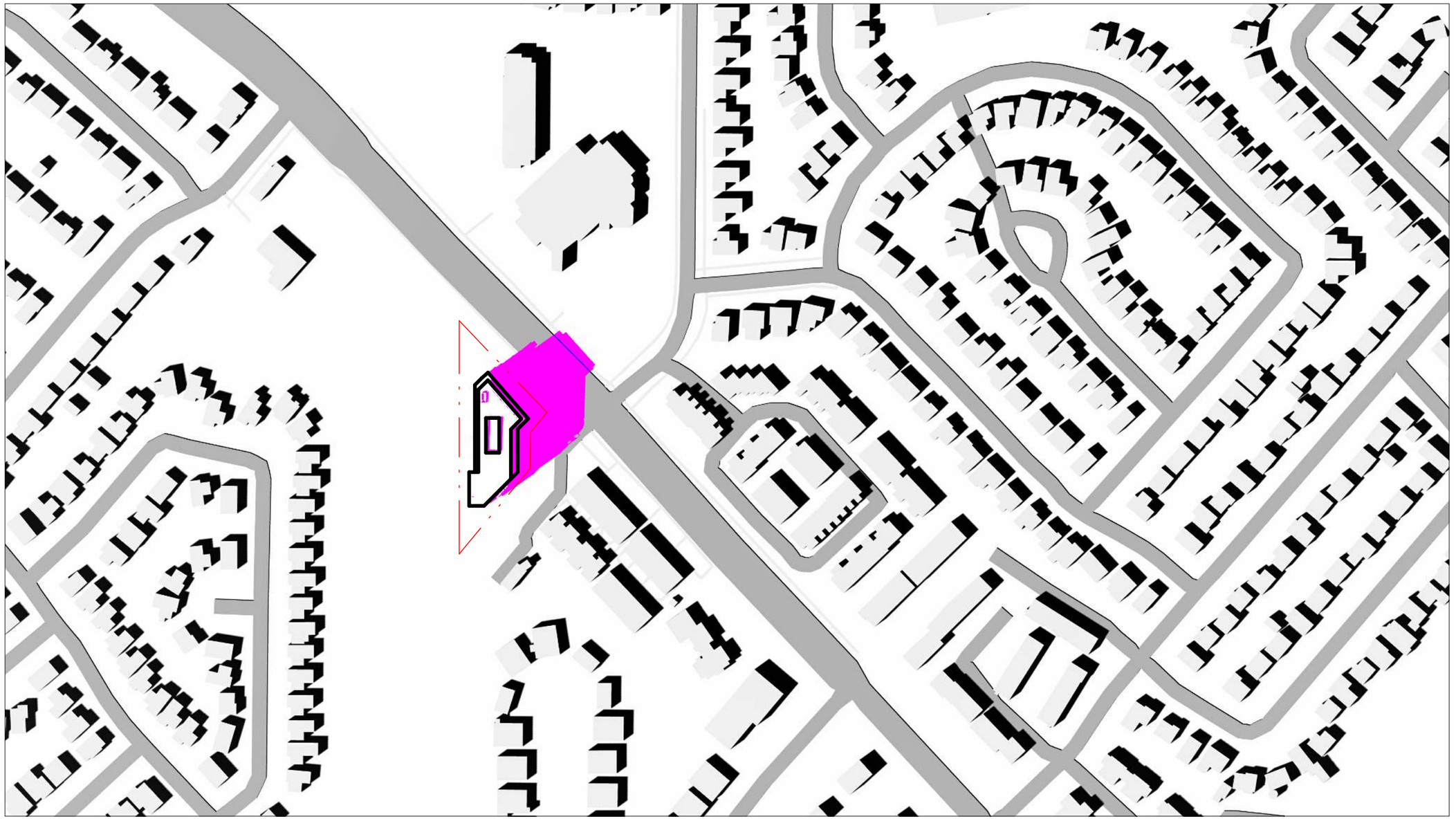
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SEPTEMBER 21 1600



NET SHADOW CAST ON GROUND SURFACES

NET SHADOW CAST ON ROOF SURFACES

SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

0m 125m 250m 375m 500m 625m

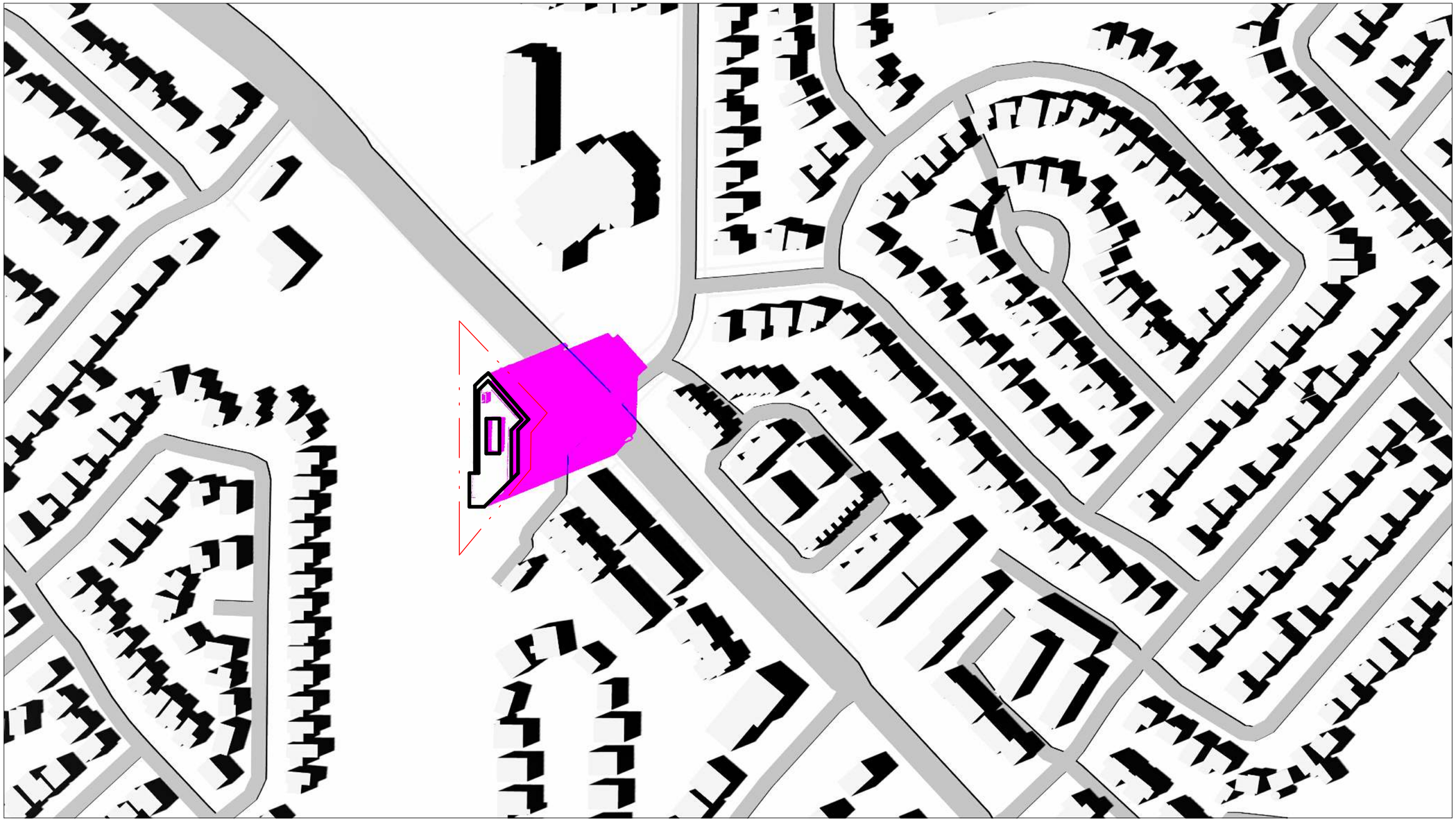
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SEPTEMBER 21 1700



NET SHADOW CAST ON GROUND SURFACES

NET SHADOW CAST ON ROOF SURFACES

SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

0m 125m 250m 375m 500m 625m

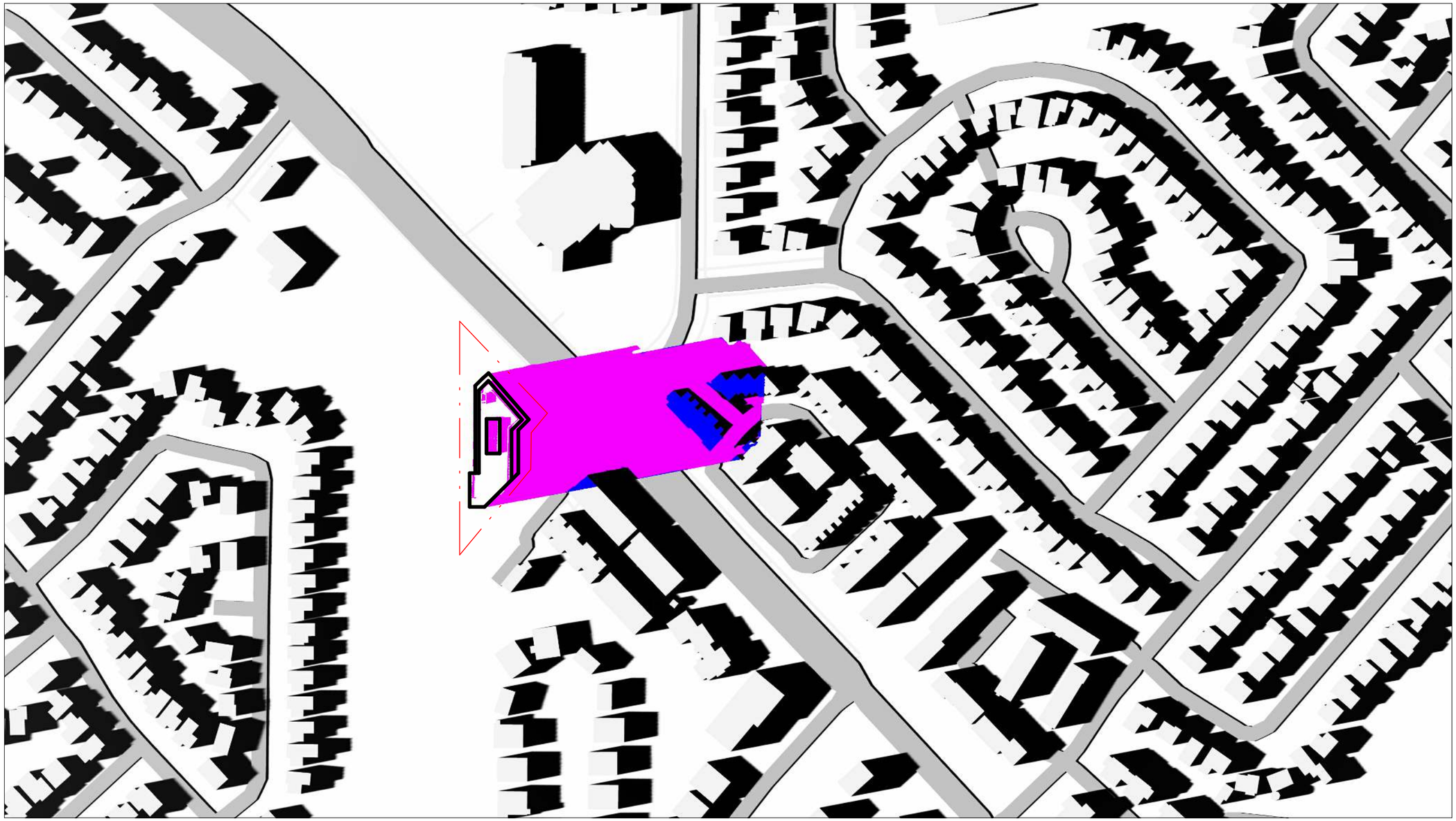
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SEPTEMBER 21 1800



NET SHADOW CAST ON GROUND SURFACES

NET SHADOW CAST ON ROOF SURFACES

SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

0m 125m 250m 375m 500m 625m

SITE BOUNDARY

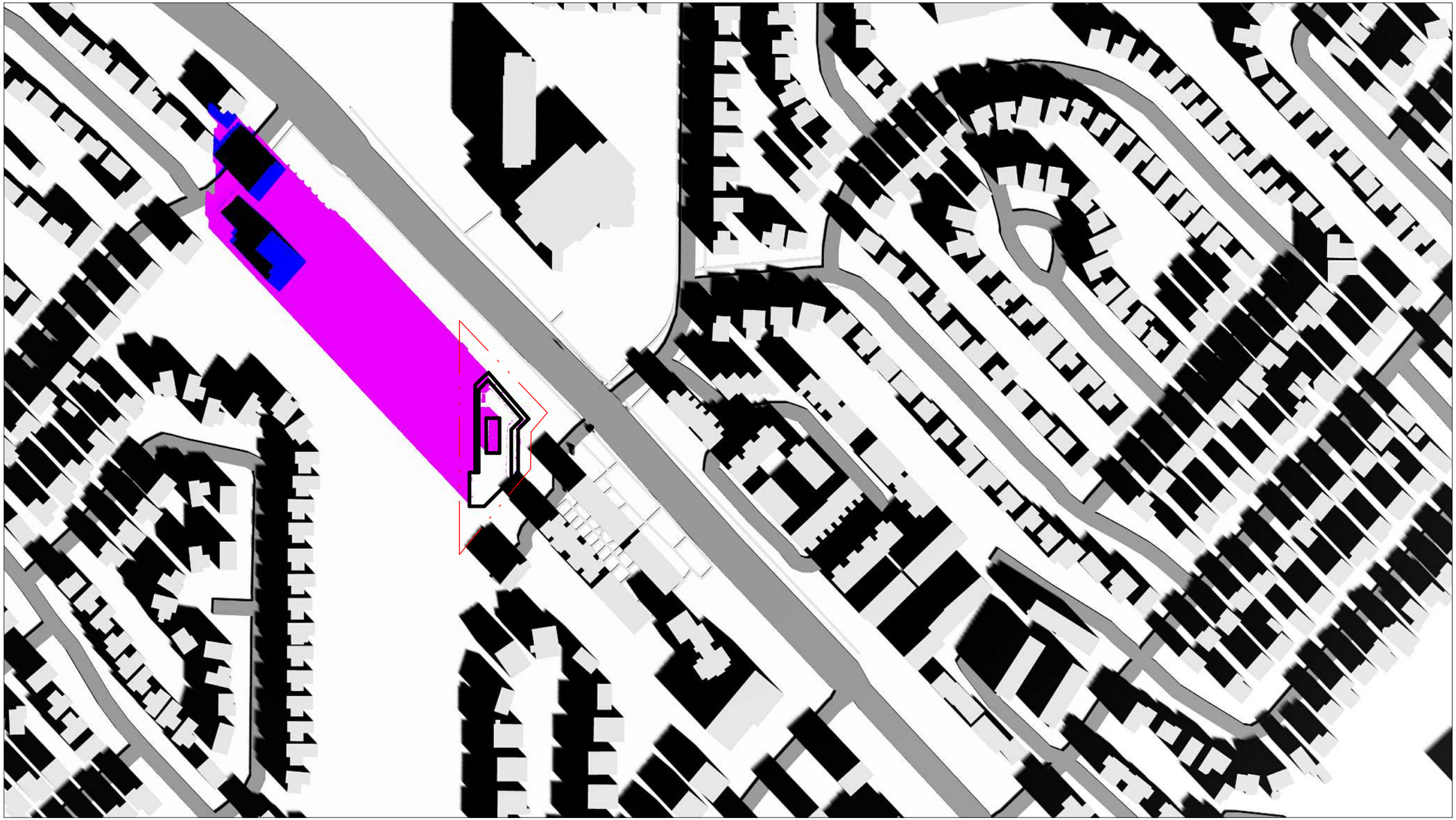
Scale : 1 : 2500

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DECEMBER 21 1000



NET SHADOW CAST ON GROUND SURFACES

NET SHADOW CAST ON ROOF SURFACES

SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

0m 125m 250m 375m 500m 625m

Scale : 1 : 2500

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DECEMBER 21 1100



NET SHADOW CAST ON GROUND SURFACES

NET SHADOW CAST ON ROOF SURFACES

SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

0m 125m 250m 375m 500m 625m

SITE BOUNDARY

Scale : 1 : 2500

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DECEMBER 21 1200



NET SHADOW CAST ON GROUND SURFACES

NET SHADOW CAST ON ROOF SURFACES

SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

0m 125m 250m 375m 500m 625m

Scale : 1 : 2500

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DECEMBER 21 1300



NET SHADOW CAST ON GROUND SURFACES

NET SHADOW CAST ON ROOF SURFACES

SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

0m 125m 250m 375m 500m 625m

Scale : 1 : 2500

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DECEMBER 21 1400



NET SHADOW CAST ON GROUND SURFACES

NET SHADOW CAST ON ROOF SURFACES

SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

0m 125m 250m 375m 500m 625m

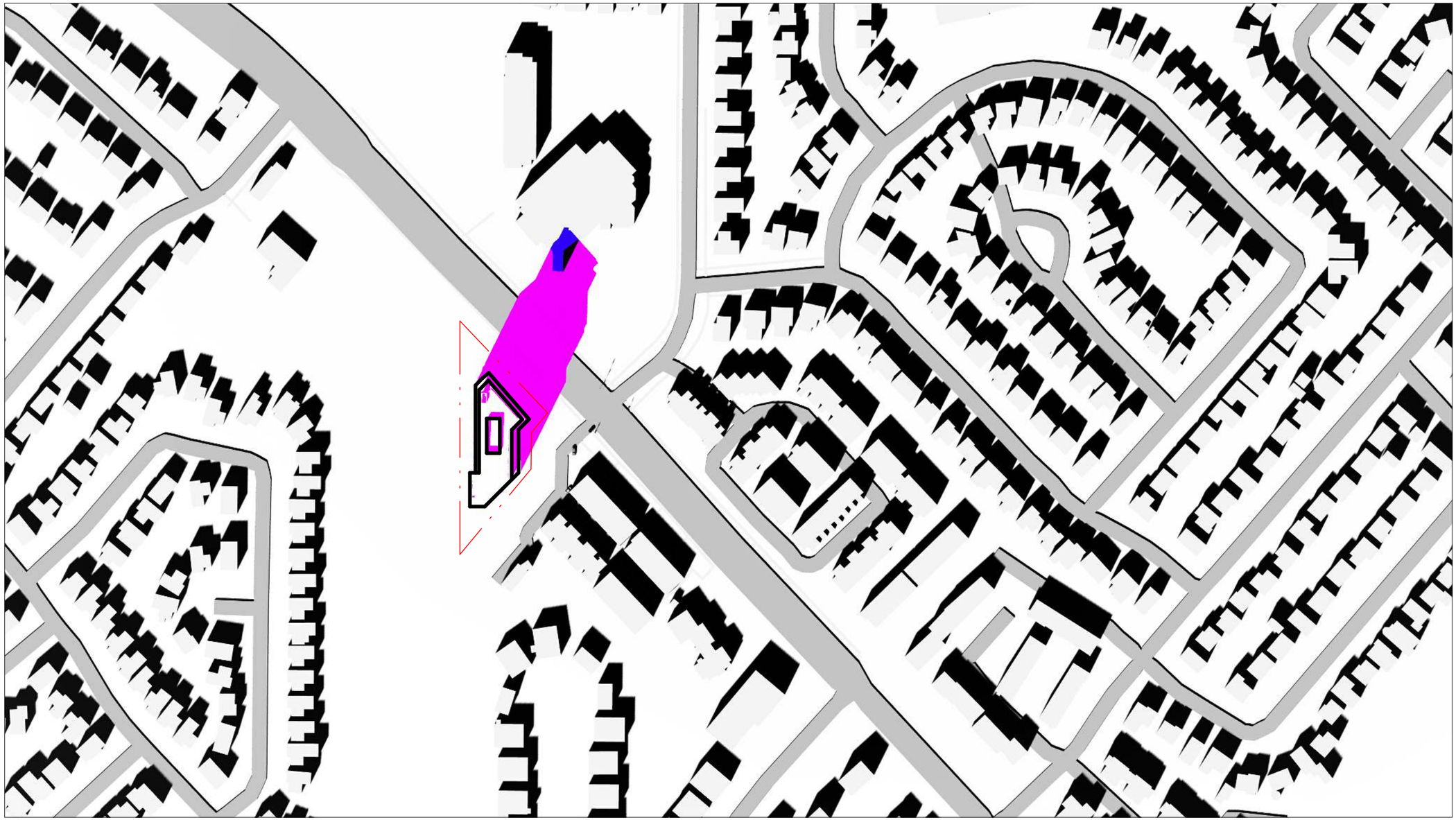
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DECEMBER 21 1500



NET SHADOW CAST ON GROUND SURFACES

NET SHADOW CAST ON ROOF SURFACES

SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

0m 125m 250m 375m 500m 625m

SITE BOUNDARY

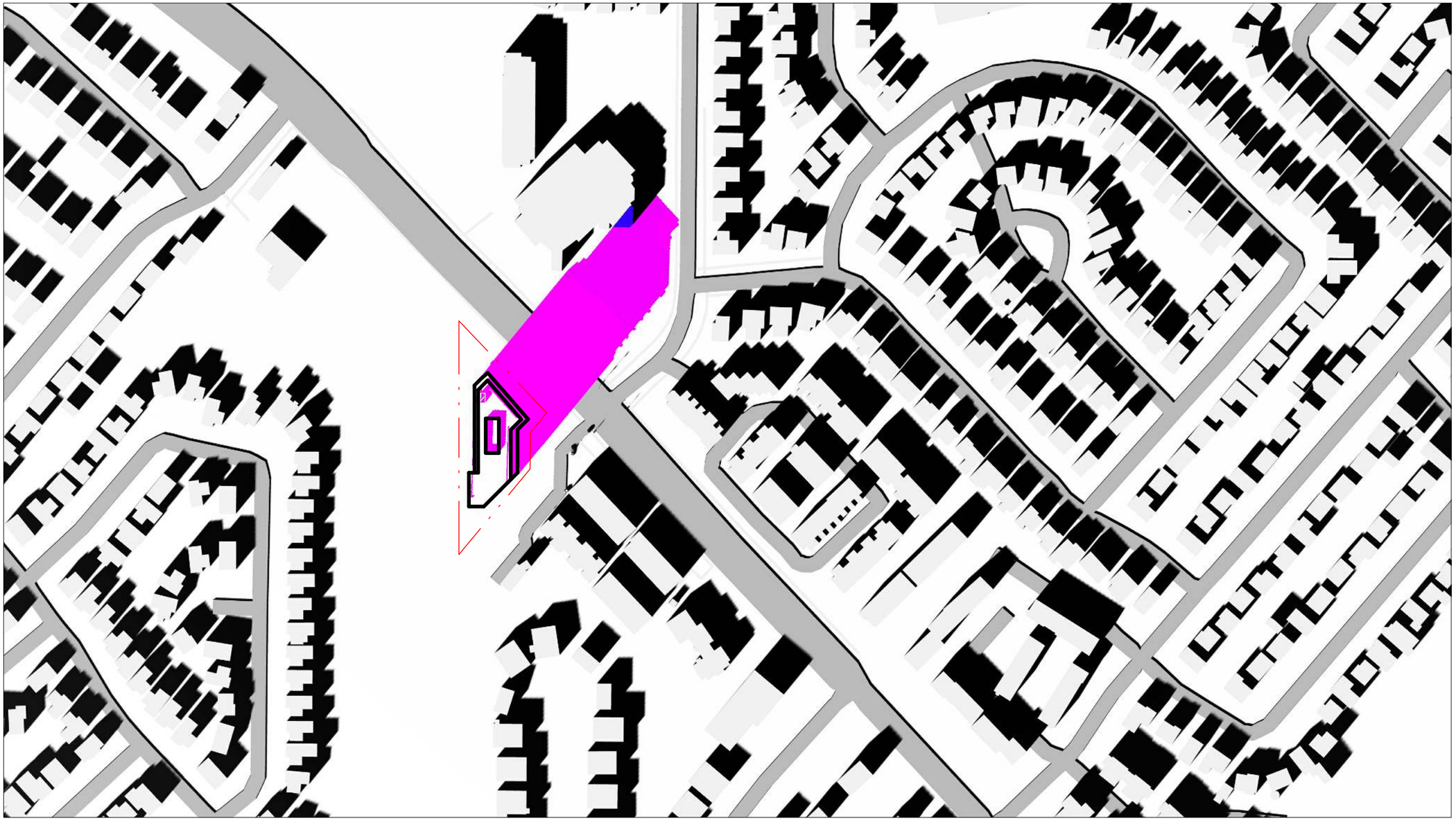
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DECEMBER 21 1600



NET SHADOW CAST ON GROUND SURFACES

NET SHADOW CAST ON ROOF SURFACES

SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

0m 125m 250m 375m 500m 625m

Scale : 1 : 2500

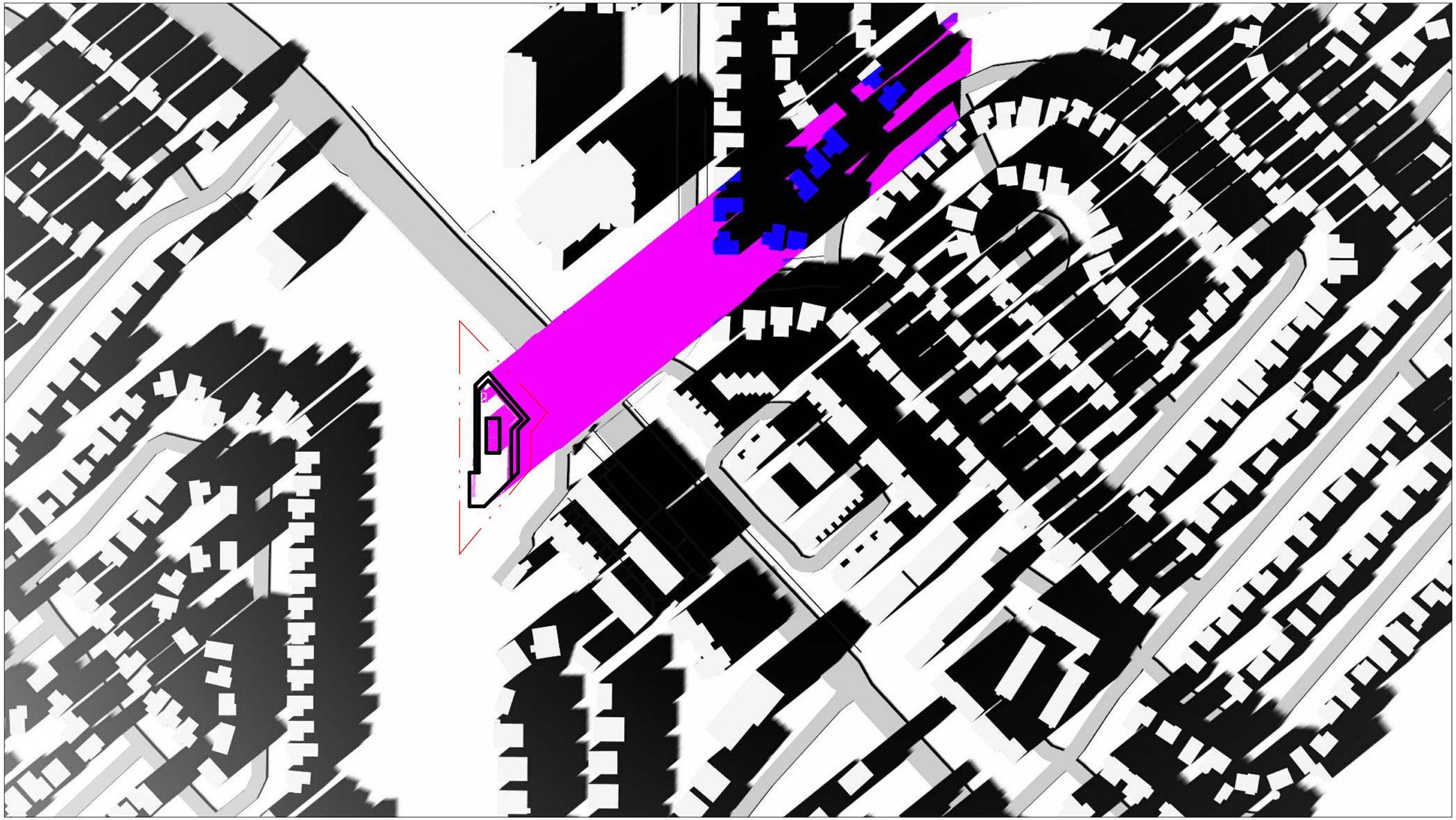
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DECEMBER 21 1700



NET SHADOW CAST ON GROUND SURFACES

NET SHADOW CAST ON ROOF SURFACES

SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES

SITE BOUNDARY

0m 125m 250m 375m 500m 625m

Scale : 1 : 2500

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1. TOTAL AREA OF ADJACENT RESIDENTIAL AMENITY (A_T) = 3143 m²

2. AREAS EXPOSED TO SUNSHINE AT EACH HOURLY TEST TIME ($AS_{(TEST)}$).

09:00 ($AS_{(TEST-09:00)}$) = 1091 m²
10:00 ($AS_{(TEST-10:00)}$) = 2985 m²
11:00 ($AS_{(TEST-10:00)}$) = 3071 m²
12:00 ($AS_{(TEST-10:00)}$) = 3082 m²
13:00 ($AS_{(TEST-10:00)}$) = 3067 m²
14:00 ($AS_{(TEST-10:00)}$) = 3037 m²
15:00 ($AS_{(TEST-10:00)}$) = 3011 m²
16:00 ($AS_{(TEST-10:00)}$) = 2923 m²
17:00 ($AS_{(TEST-10:00)}$) = 2740 m²
18:00 ($AS_{(TEST-10:00)}$) = 2416 m²

NUMBER OF TEST TIMES = 10

3. THE AVERAGES FOR THE NINE ONE-HOUR INTERVALS ($AS_{(INTERVAL)}$):

09:00-10:00 ($AS_{(interval-09:00-10:00)}$) = (1091 m² + 2985 m²) ÷ 2 = 2038.0 m²
10:00-11:00 ($AS_{(interval-10:00-11:00)}$) = (2985 m² + 3071 m²) ÷ 2 = 3028.0 m²
11:00-12:00 ($AS_{(interval-11:00-12:00)}$) = (3071 m² + 3082 m²) ÷ 2 = 3076.5 m²
12:00-13:00 ($AS_{(interval-12:00-13:00)}$) = (3082 m² + 3067 m²) ÷ 2 = 3074.5 m²
13:00-14:00 ($AS_{(interval-13:00-14:00)}$) = (3067 m² + 3037 m²) ÷ 2 = 3052.0 m²
14:00-15:00 ($AS_{(interval-14:00-15:00)}$) = (3037 m² + 3011 m²) ÷ 2 = 3024.0 m²
15:00-16:00 ($AS_{(interval-15:00-16:00)}$) = (3011 m² + 2923 m²) ÷ 2 = 2967.0 m²
16:00-17:00 ($AS_{(interval-16:00-17:00)}$) = (2923 m² + 2740 m²) ÷ 2 = 2831.5 m²
17:00-18:00 ($AS_{(interval-17:00-18:00)}$) = (2740 m² + 2416 m²) ÷ 2 = 2578.0 m²

NUMBER OF TEST INTERVALS = 9

SUM OF ($AS_{(INTERVAL)}$) = 25670 m²

4. THE OVERALL AVERAGE AREA IN SUNSHINE ($AS_{(AVERAGE)}$) = [SUM OF ($AS_{(INTERVAL)}$)] ÷ [# OF INTERVALS]

= 25,670.00 m² ÷ 9
= 2,852.22 m²

5. SAF = ($AS_{(AVERAGE)}$) ÷ A_T

= 2,852.22 m² ÷ 3143 m²

=0.90 m²

RESULTS

0.90 IS GREATER THAN 0.22. THEREFORE, THE SAF MEETS THE CRITERIA.

Scale : 1 : 10000

MARCH 21 900



AREA EXPOSED TO SUNSHINE ($AS_{(test)}$):1091 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS 2051 m²

MARCH 21 1000



AREA EXPOSED TO SUNSHINE ($AS_{(test)}$):2985 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS 158 m²

MARCH 21 1100



AREA EXPOSED TO SUNSHINE ($AS_{(test)}$):3071 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS 72 m²

MARCH 21 1200



AREA EXPOSED TO SUNSHINE ($AS_{(test)}$):3082 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS 60 m²

MARCH 21 1300



AREA EXPOSED TO SUNSHINE ($AS_{(test)}$):3067 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS 76 m²

MARCH 21 1400



AREA EXPOSED TO SUNSHINE ($AS_{(test)}$):3037 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS 99 m²

MARCH 21 1500



AREA EXPOSED TO SUNSHINE ($AS_{(test)}$):3011 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS 119 m²

MARCH 21 1600



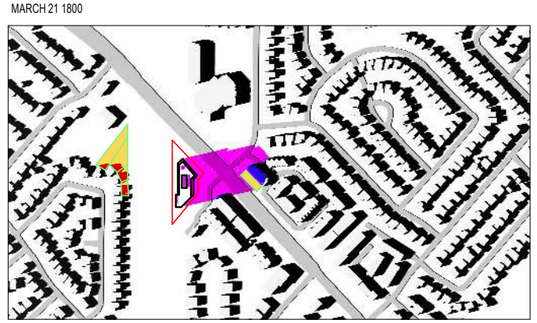
AREA EXPOSED TO SUNSHINE ($AS_{(test)}$):2923 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS 213 m²

MARCH 21 1700



AREA EXPOSED TO SUNSHINE ($AS_{(test)}$):2740 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS 397 m²

MARCH 21 1800



AREA EXPOSED TO SUNSHINE ($AS_{(test)}$):2416 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS 723 m²

NET SHADOW CAST ON GROUND SURFACES
NET SHADOW CAST ON ROOF SURFACES
SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES
ADJACENT RESIDENTIAL AMENITY SPACE
SITE BOUNDARY

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1. TOTAL AREA OF ADJACENT RESIDENTIAL AMENITY (A_T) = 5242 m²

2. AREAS EXPOSED TO SUNSHINE AT EACH HOURLY TEST TIME ($AS_{(TEST)}$).

09:00 ($AS_{(TEST-09:00)}$) = 4772m²
10:00 ($AS_{(TEST-10:00)}$) = 5139m²
11:00 ($AS_{(TEST-10:00)}$) = 5216m²
12:00 ($AS_{(TEST-10:00)}$) = 5233m²
13:00 ($AS_{(TEST-10:00)}$) = 5240m²
14:00 ($AS_{(TEST-10:00)}$) = 5242m²
15:00 ($AS_{(TEST-10:00)}$) = 4992m²
16:00 ($AS_{(TEST-10:00)}$) = 4547m²
17:00 ($AS_{(TEST-10:00)}$) = 4159m²
18:00 ($AS_{(TEST-10:00)}$) = 4445m²

NUMBER OF TEST TIMES = 10

3. THE AVERAGES FOR THE NINE ONE-HOUR INTERVALS ($AS_{(INTERVAL)}$):

09:00-10:00 ($AS_{(interval-09:00-10:00)}$) = (4772m² + 5139m²) ÷ 2 = 4955.5 m²
10:00-11:00 ($AS_{(interval-10:00-11:00)}$) = (5139m² + 5216m²) ÷ 2 = 5177.5 m²
11:00-12:00 ($AS_{(interval-11:00-12:00)}$) = (5216m² + 5233m²) ÷ 2 = 5224.5 m²
12:00-13:00 ($AS_{(interval-12:00-13:00)}$) = (5233m² + 5240m²) ÷ 2 = 5236.5 m²
13:00-14:00 ($AS_{(interval-13:00-14:00)}$) = (5240m² + 5242m²) ÷ 2 = 5241.0 m²
14:00-15:00 ($AS_{(interval-14:00-15:00)}$) = (5242m² + 4992m²) ÷ 2 = 5117.0 m²
15:00-16:00 ($AS_{(interval-15:00-16:00)}$) = (4992m² + 4547m²) ÷ 2 = 4769.5 m²
16:00-17:00 ($AS_{(interval-16:00-17:00)}$) = (4547m² + 4159m²) ÷ 2 = 4353.0 m²
17:00-18:00 ($AS_{(interval-17:00-18:00)}$) = (4159m² + 4445m²) ÷ 2 = 4302.0 m²

NUMBER OF TEST INTERVALS = 9

SUM OF ($AS_{(INTERVAL)}$) = 44,376.5 m²

4. THE OVERALL AVERAGE AREA IN SUNSHINE ($AS_{(AVERAGE)}$) = [SUM OF ($AS_{(INTERVAL)}$)] ÷ [# OF INTERVALS]

= 44,599.0 m² ÷ 9
= 4,930.72 m²

5. SAF = ($AS_{(AVERAGE)}$) ÷ A_T

= 4,930.72 m² ÷ **5242** m²

=0.94 m²

RESULTS

0.94 IS GREATER THAN 0.50. THEREFORE, THE SAF MEETS THE CRITERIA.

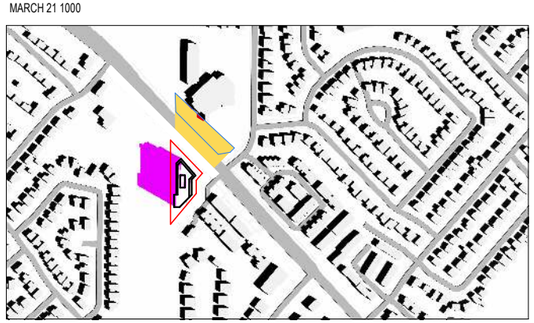
Scale : 1 : 10000

MARCH 21 900



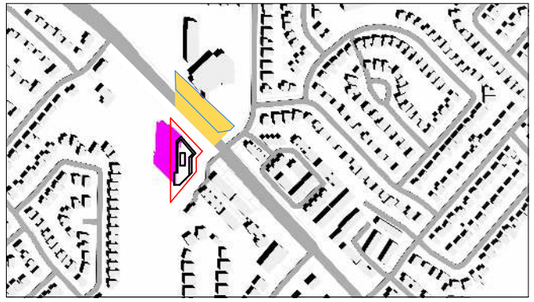
AREA EXPOSED TO SUNSHINE ($AS_{(test)}$):4772 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS) 470 m²

MARCH 21 1000



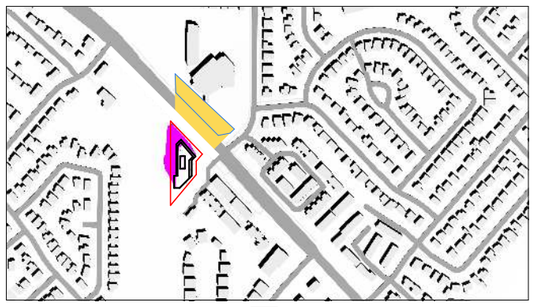
AREA EXPOSED TO SUNSHINE ($AS_{(test)}$):5139 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS) 102 m²

MARCH 21 1100



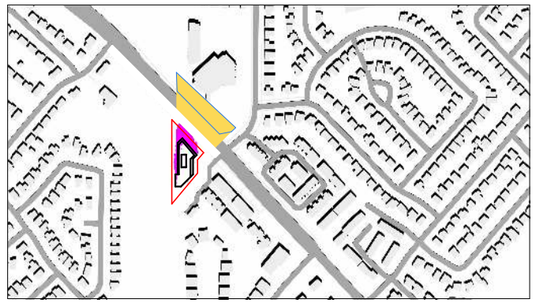
AREA EXPOSED TO SUNSHINE ($AS_{(test)}$):5216 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS) 25 m²

MARCH 21 1200



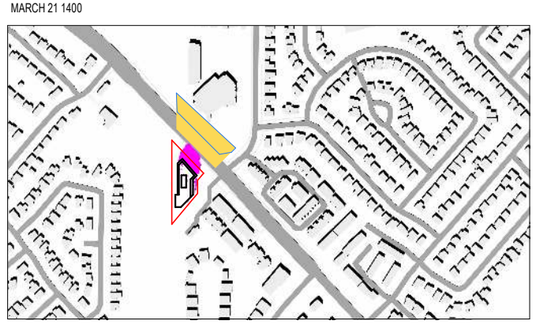
AREA EXPOSED TO SUNSHINE ($AS_{(test)}$):5233 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS) 9 m²

MARCH 21 1300



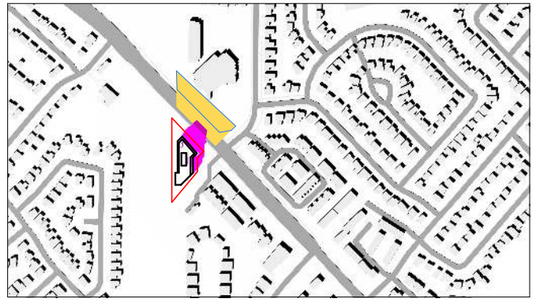
AREA EXPOSED TO SUNSHINE ($AS_{(test)}$):5240 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS) 2 m²

MARCH 21 1400



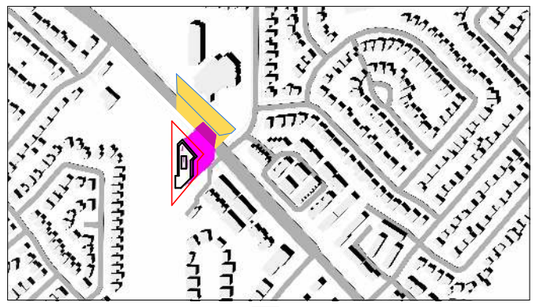
AREA EXPOSED TO SUNSHINE ($AS_{(test)}$):5242 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS) 0 m²

MARCH 21 1500



AREA EXPOSED TO SUNSHINE ($AS_{(test)}$):4992 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS) 0 m²

MARCH 21 1600



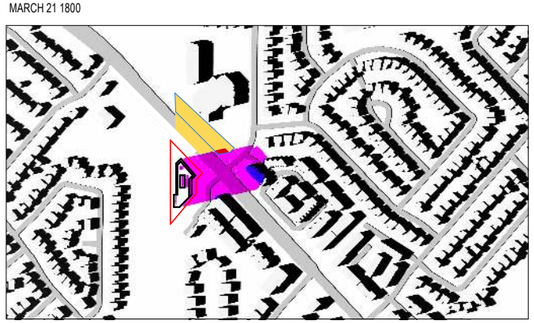
AREA EXPOSED TO SUNSHINE ($AS_{(test)}$):4547 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS) 0 m²

MARCH 21 1700



AREA EXPOSED TO SUNSHINE ($AS_{(test)}$):4159 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS) 278 m²

MARCH 21 1800



AREA EXPOSED TO SUNSHINE ($AS_{(test)}$):4445 m²
AREA IN SHADOW (INCLUDING EXISTING AND PROPOSED SHADOWS) 138 m²

NET SHADOW CAST ON GROUND SURFACES
NET SHADOW CAST ON ROOF SURFACES
SHADOW CAST BY EXISTING BUILDINGS ON ALL SURFACES
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