April 2019

RICHMOND | Architects Ltd.

243 COLLEGE STREET
SECOND FLOOR
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COMPARATIVE SUN/SHADOW STUDY

WATERGARDEN (PHASE 4, PART 2)(RA5-43) & (PHASE 5)(RA5-42)

CITY OF MISSISSAUGA

PINNACLE INTERNATIONAL
PERFECTION • PERFORMANCE

PROJECT NO: 2017-002

SHADOW STUDY

PROPOSED CONDOMINIUM DEVELOPMENT

This shadow study illustrates the shadows cast by the proposed condominium development located at Watergarden (Phase 4, Part 2)(RA5-43) & (Phase 5)(RA5-42)
, City of Mississauga, for the dates and times shown in the City of Mississauga Standards of Shadow Study Guidelines being:
a.) March/ September 21 between 8:35 a.m. and 5:48 p.m.
b.) June 21 between 7:07 a.m. and 7:33 p.m.
c.) December 21 between 9:19 a.m. and 3:17 p.m.

Base mapping includes area that meets the following requirements:
a.) 4.0 times the building height to the north, east and west.
b.) 1.5 times the building height to the south.

Shadow drawings are based on 2D mapping/air photos showing shadows from only the proposal. Base plan originated from Google Earth Pro mapping software. Astronomical north was determined using Latitude and Longtitude coordinates and Mississauga Sun Angle data within the software used to produce the shadow study drawings (SketchUP 3D).

The Latitude coordinate is: 43°36'27.07"N
The Longitude coordinate is: 79°39'19.16"W

Time zone: Eastern
Standard Time: UT -5 hours
Daylight Time: UT -4 hours
Universal Time (UT) is Greenwich Mean Time

The design of the proposal ensures that sufficient sunlight is provided to all residential private outdoor amenity spaces, communal outdoor amenity spaces, and public realm on March 21, June 21 and September 21 in the required test times. The shadow analysis shows that public sidewalks and open spaces receive at least a total of 5 hours of sunlight per day, as per the guidelines. Further, the analysis determines that there are no shadow impacts on the public parks of the surrounding during the required test times.

In summary, the shadows cast by the proposed development will have no significant impact on its neighbors or the public realm.

Shadow study drawings and report prepared by Richmond Architects

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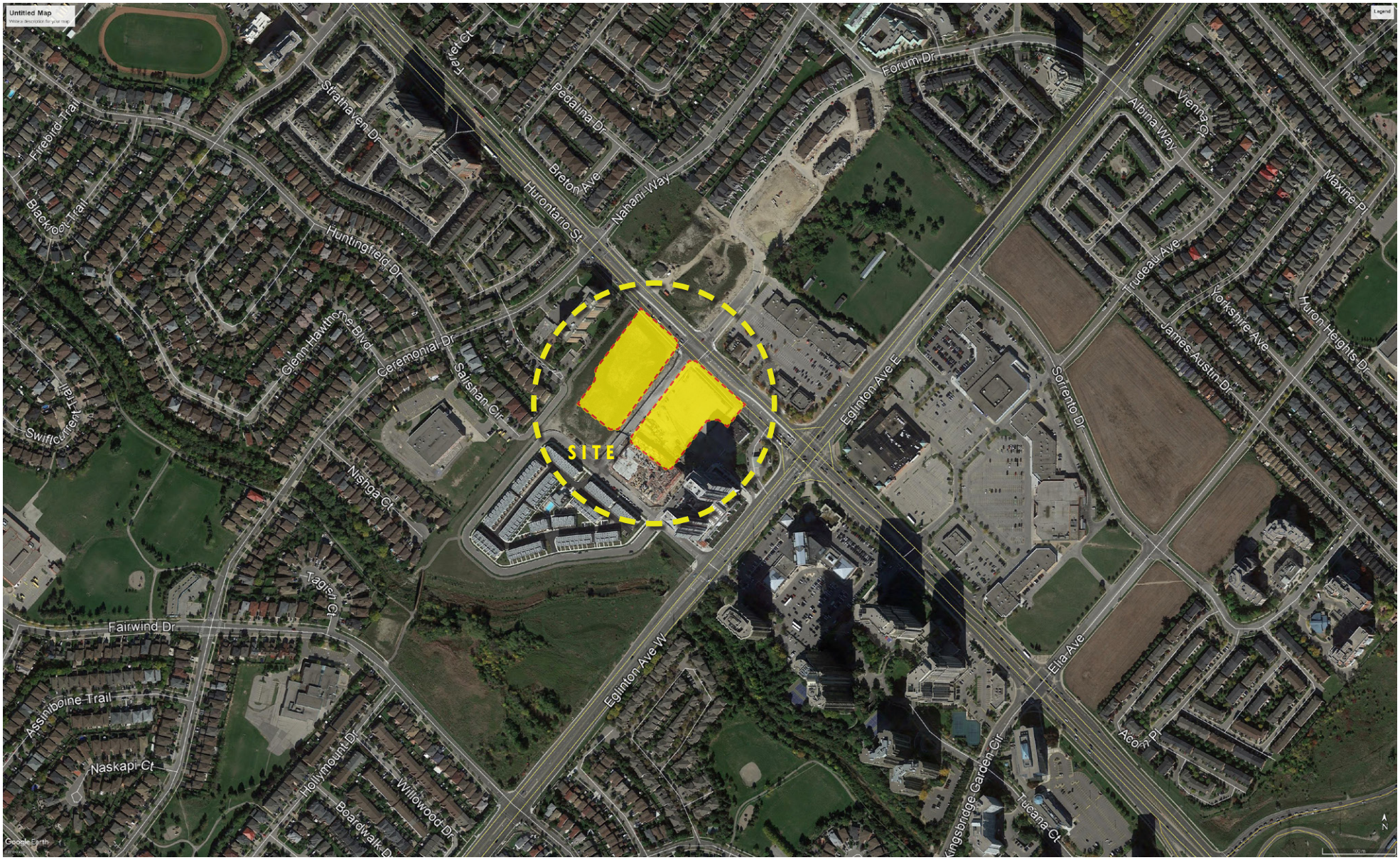

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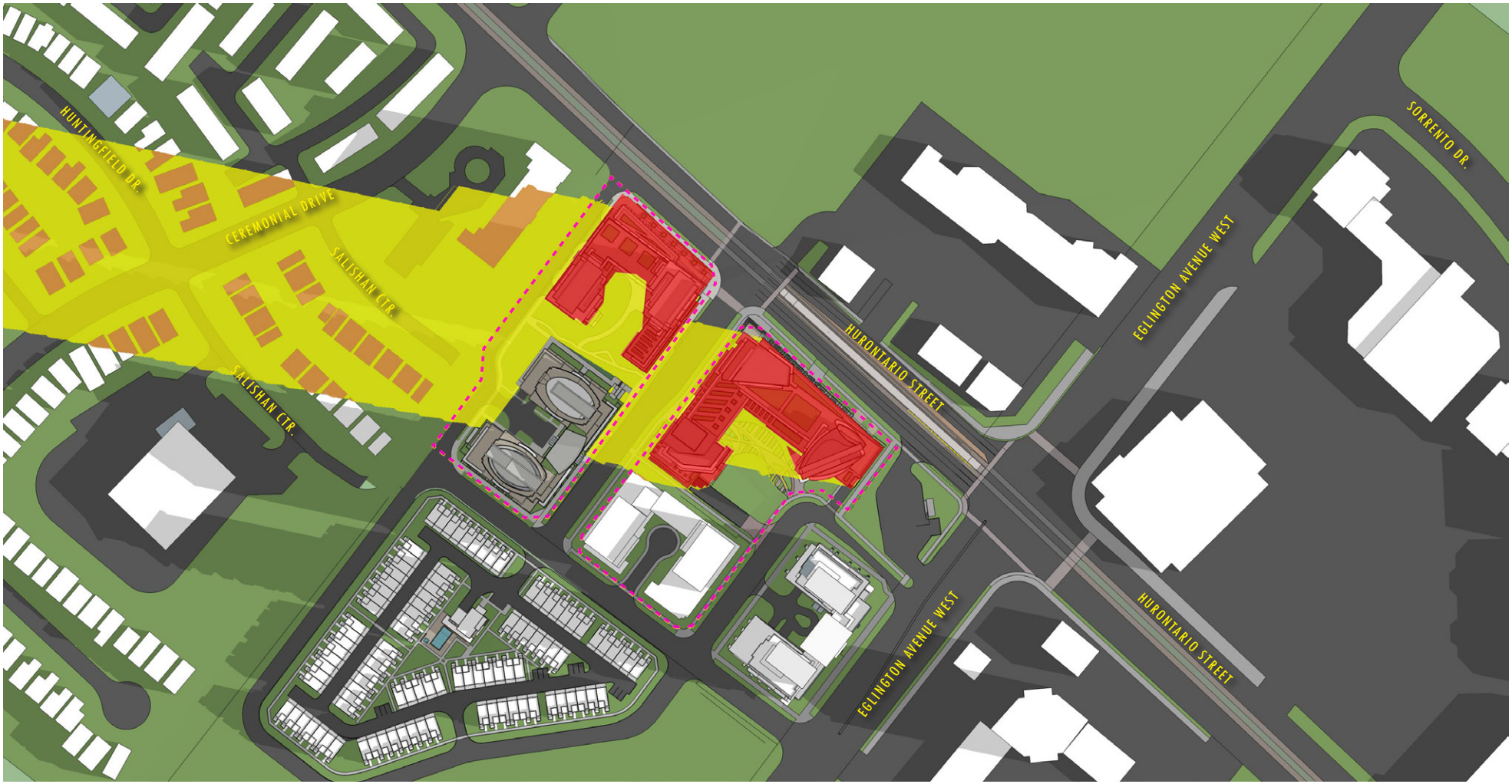
SITE LOCATION

SUN/SHADOW STUDY WATERGARDEN (PHASE 4, PART 2)(RA5-43) & (PHASE 5) (RA5-42), CITY OF MISSISSAUGA,ONTARIO



SHADOW STUDY (BASED ON PROPOSED NEW ENVELOPE)

ADDITIONAL SHADOW ON THE GROUND

ADDITIONAL SHADOW ON THE ROOFS

SITE BOUNDARY

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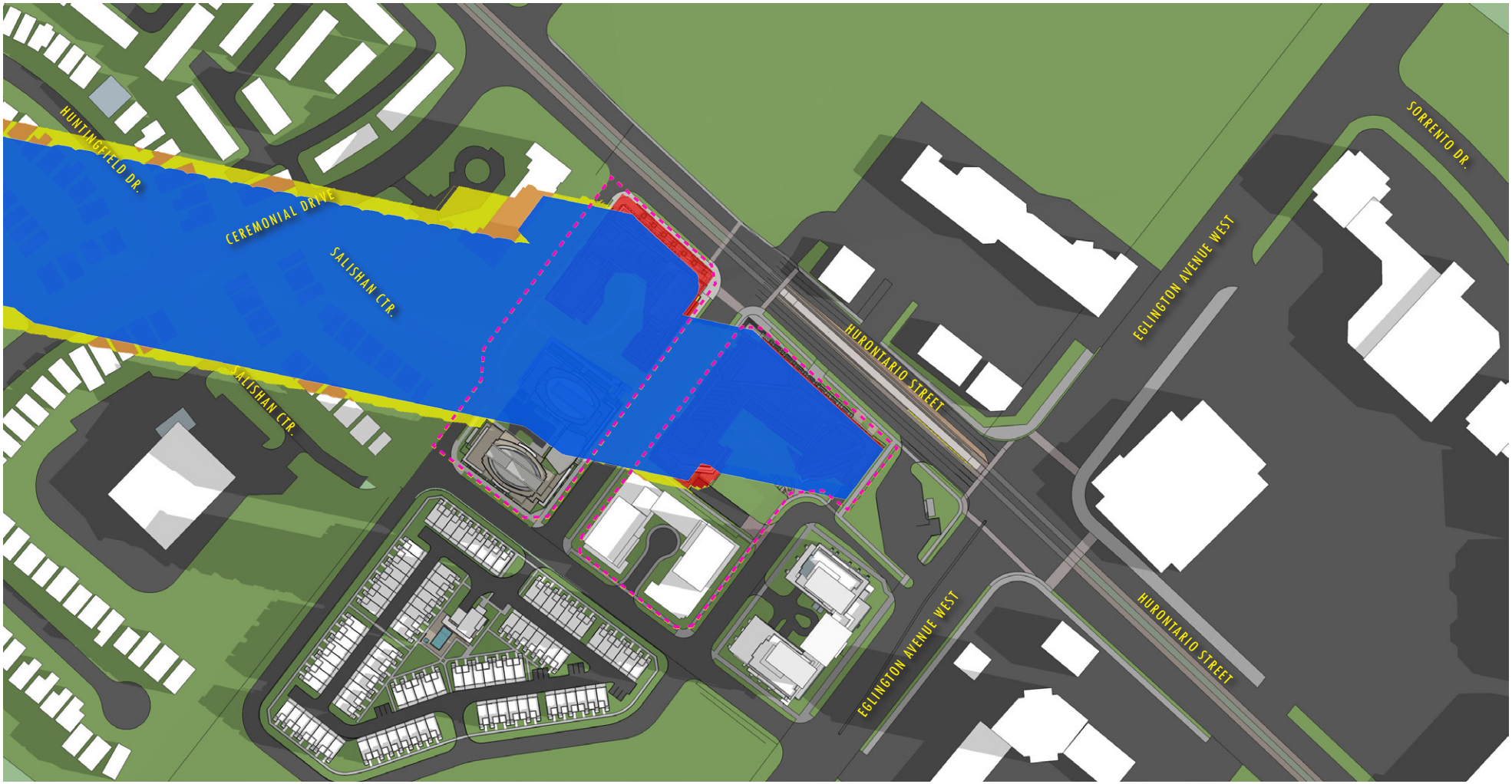

SHADOW STUDY (APPROVED ENVELOPE OVERLAID ON PROPOSED CHANGES)

- ADDITIONAL SHADOW ON THE GROUND
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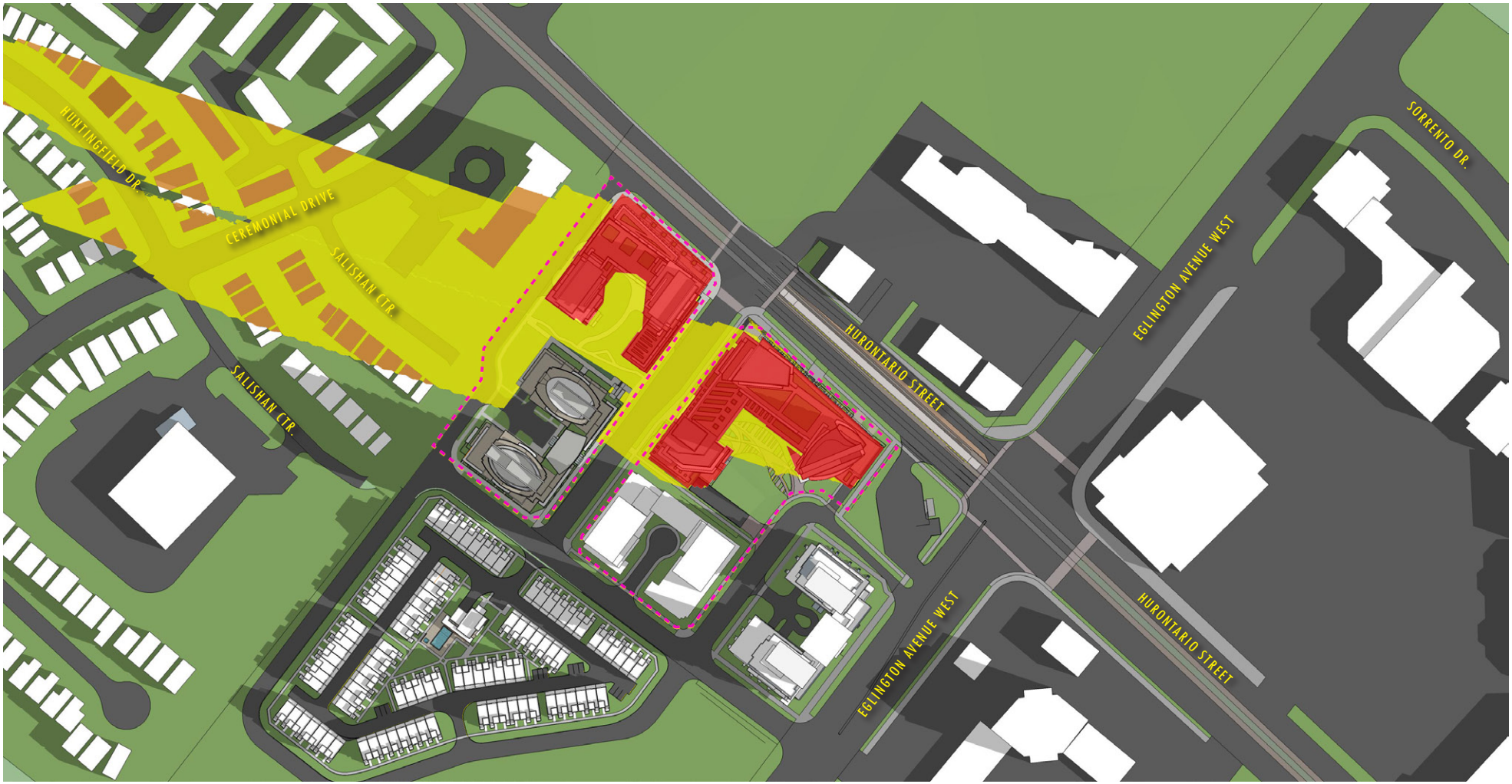

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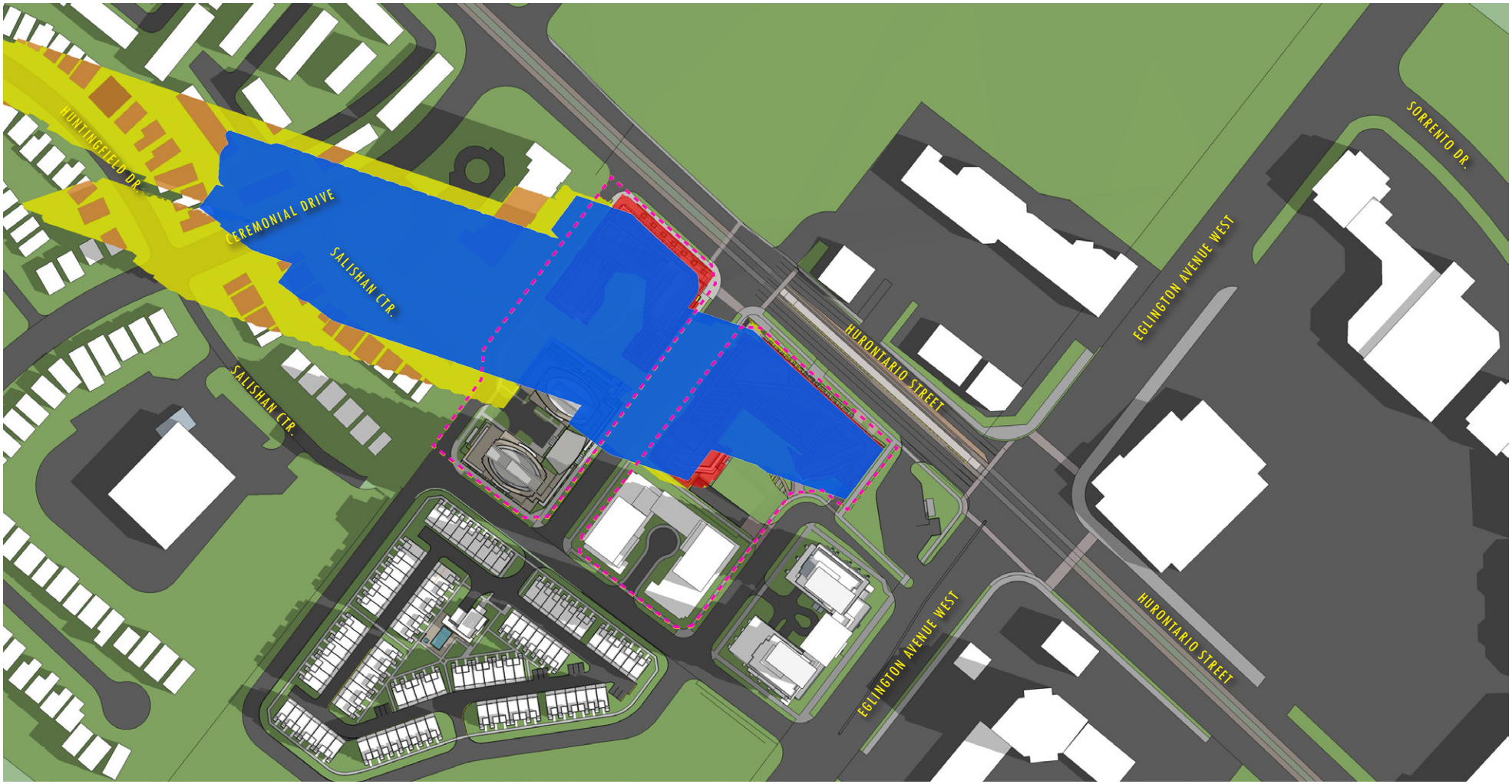

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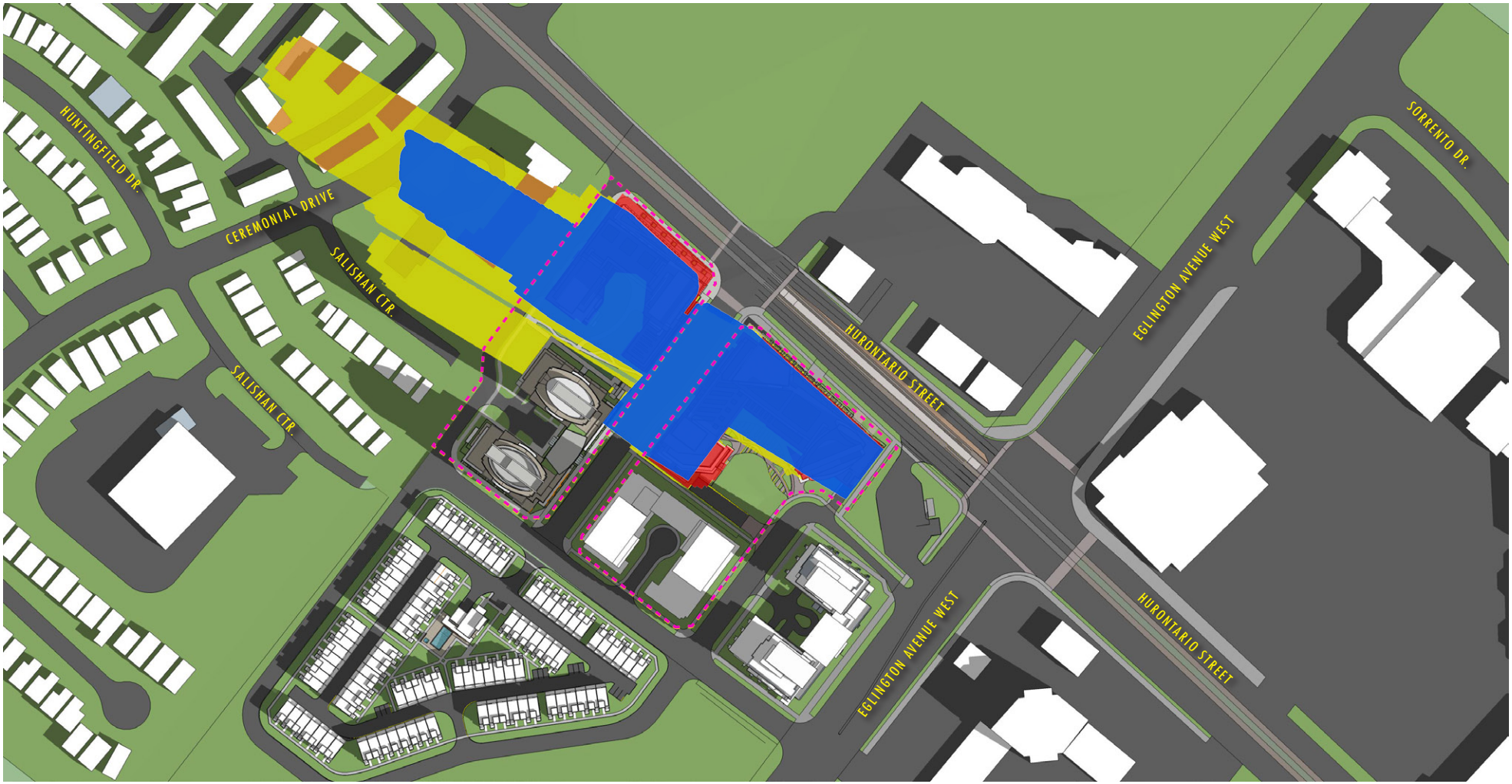

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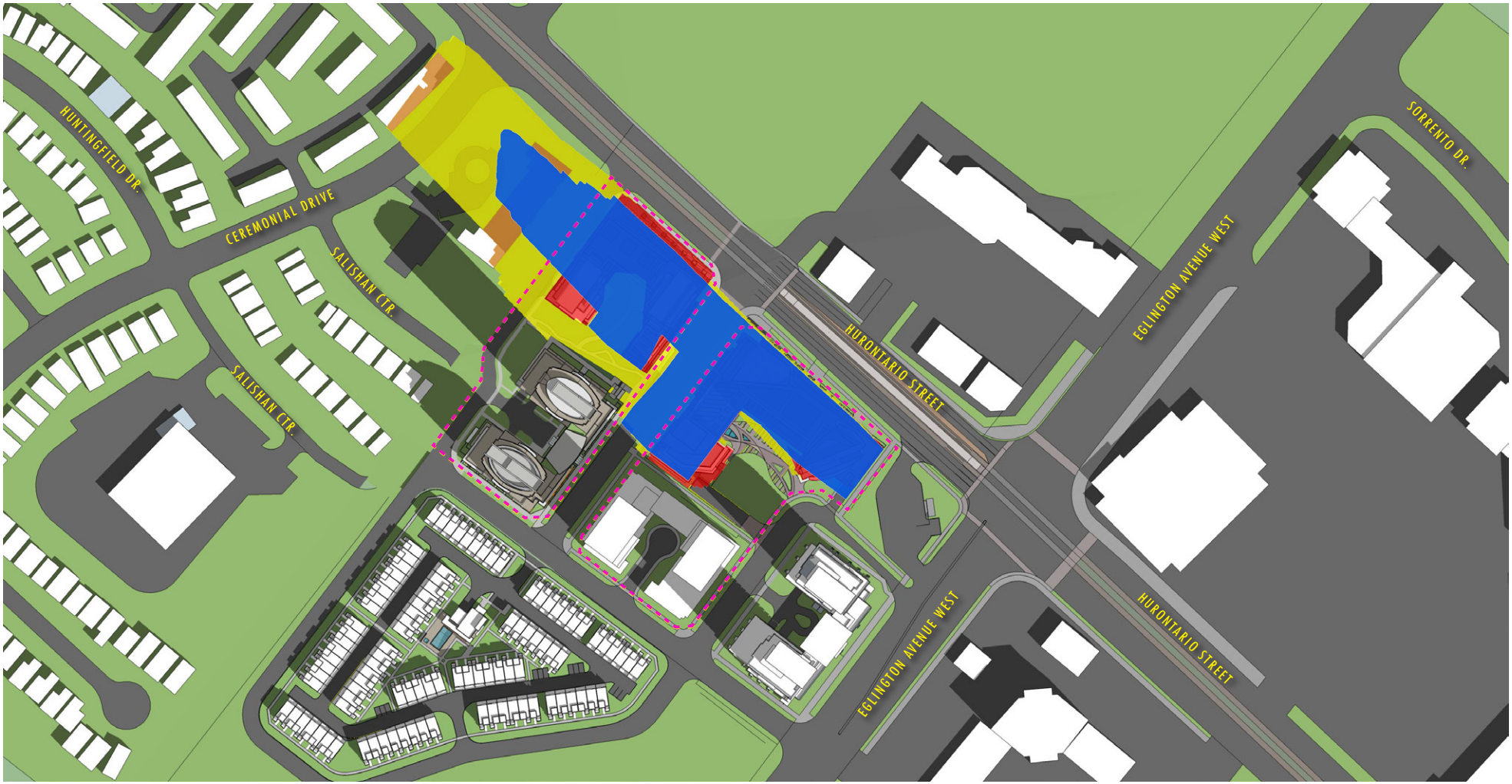

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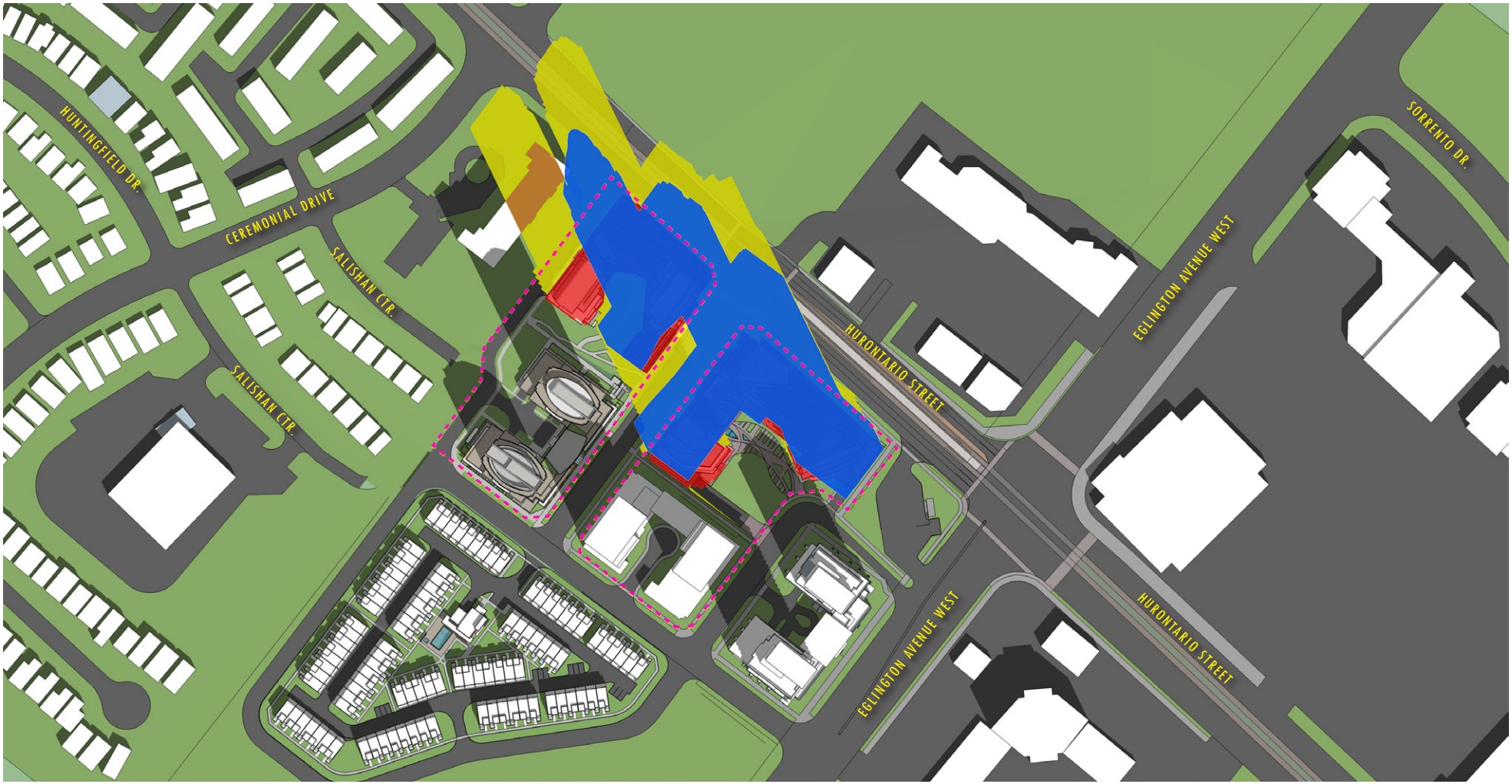

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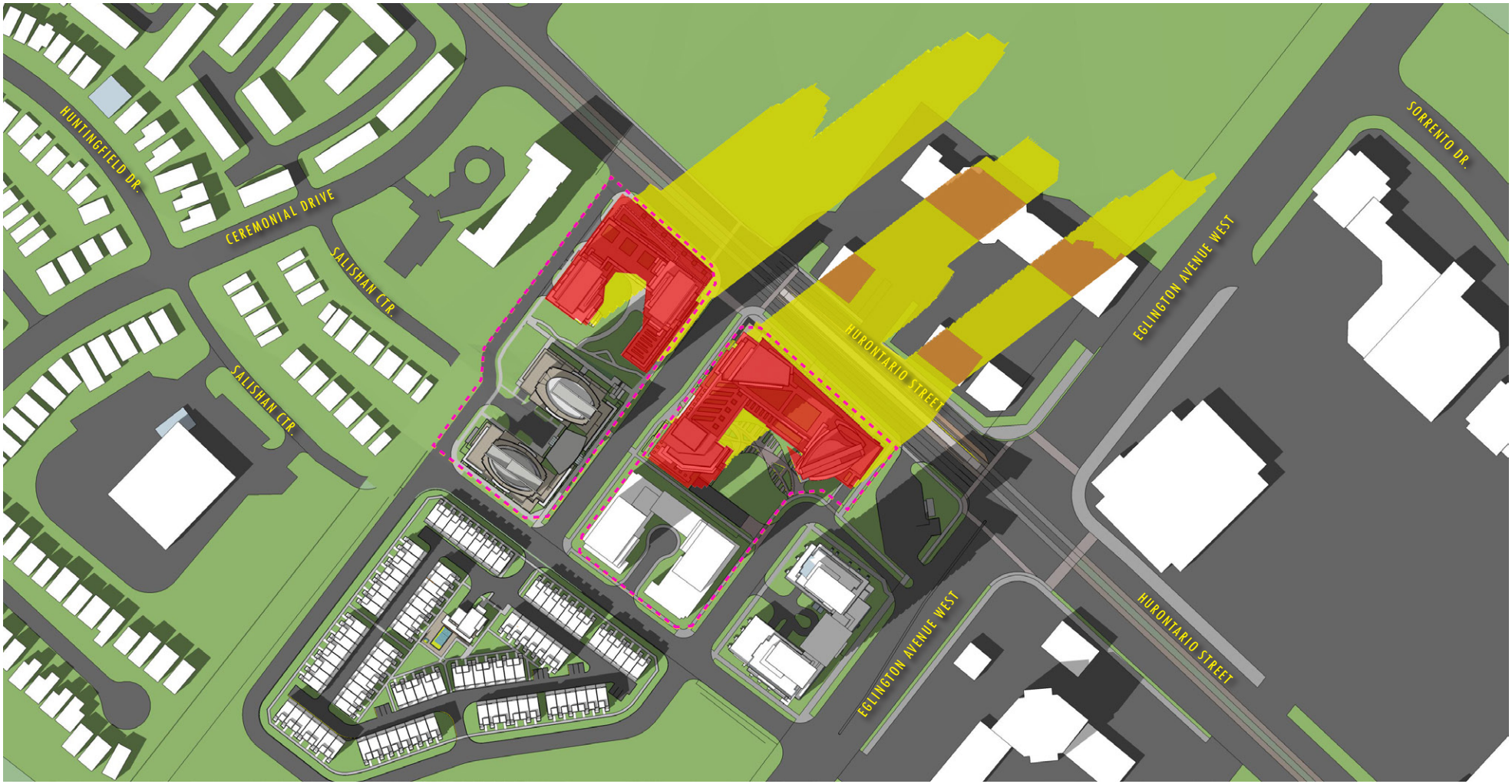

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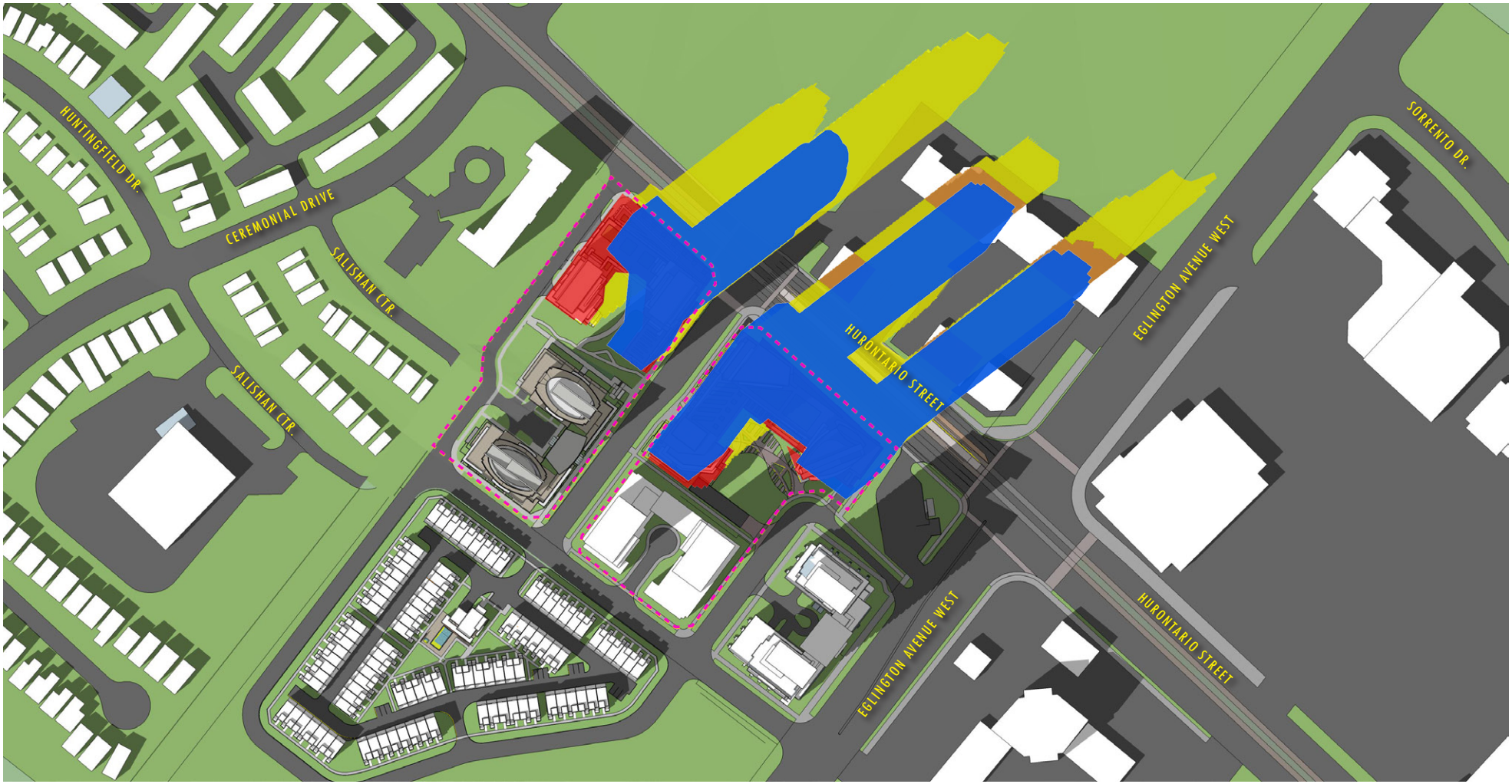

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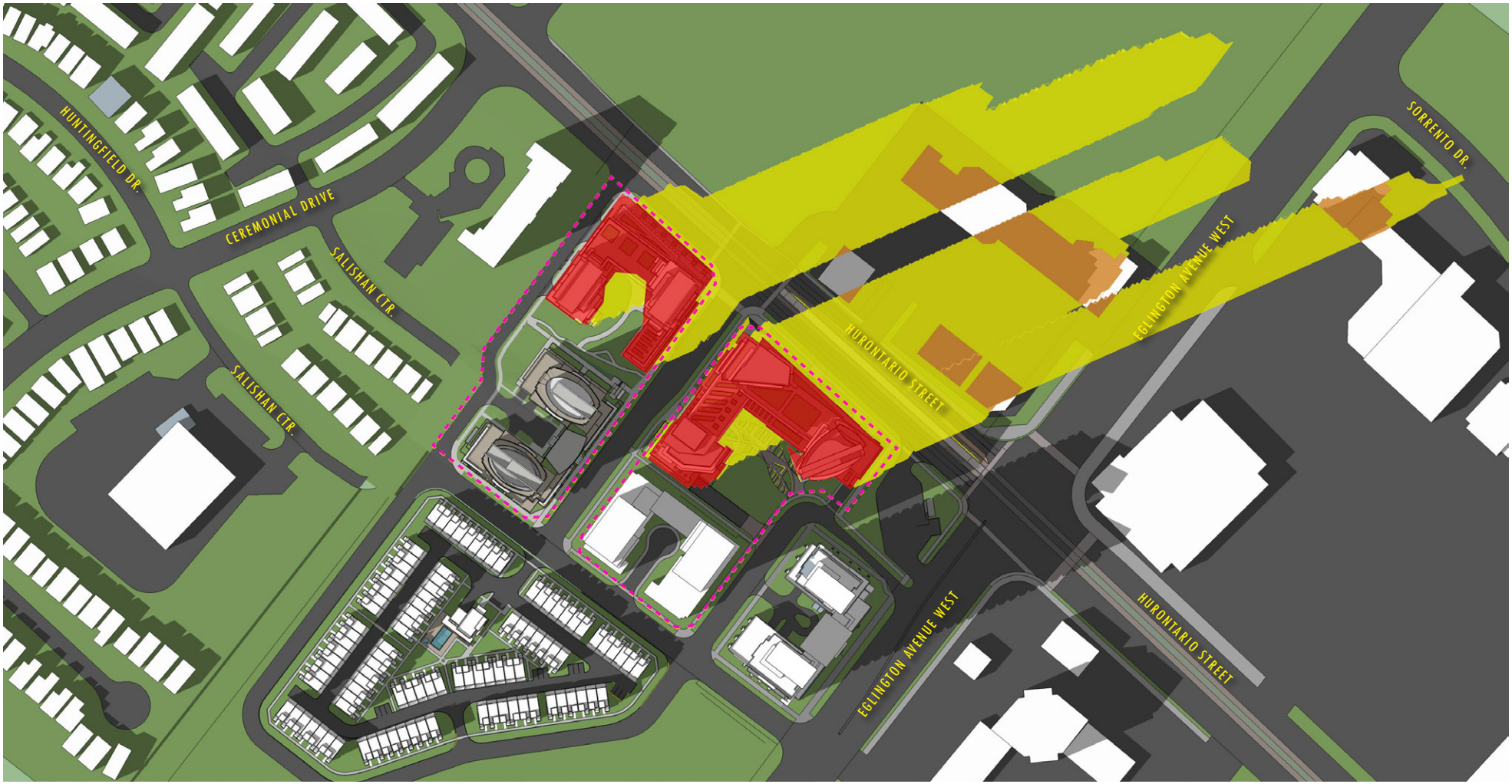

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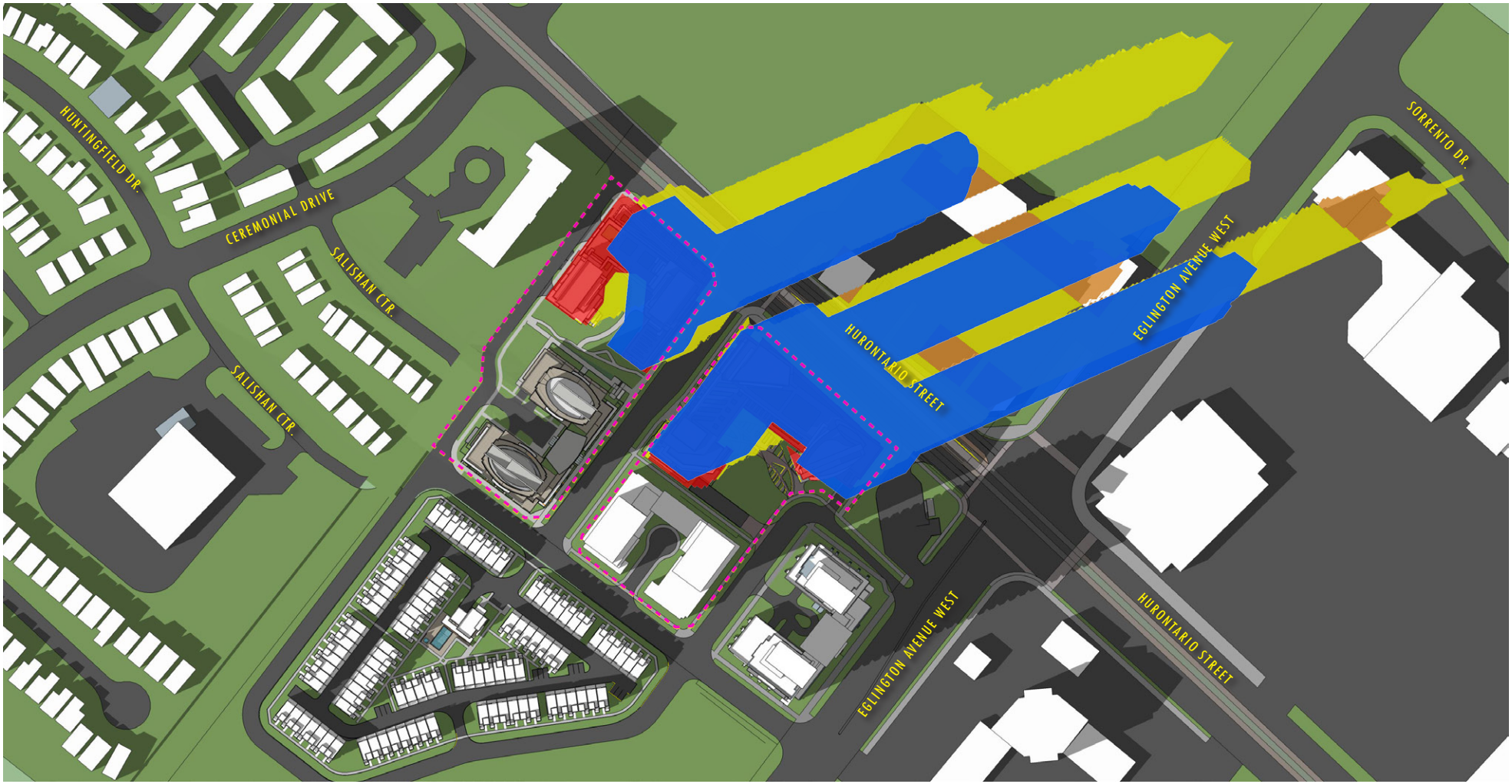

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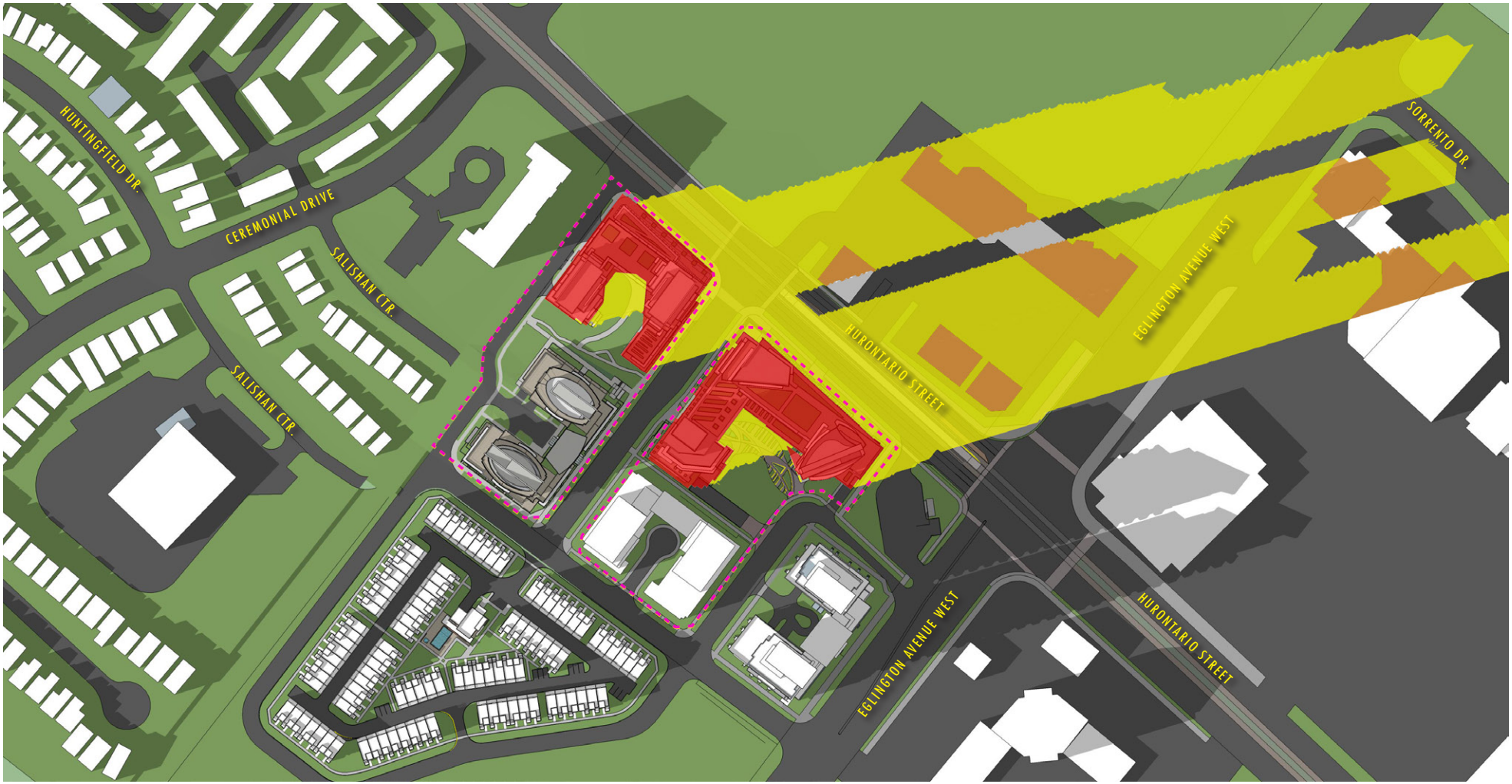

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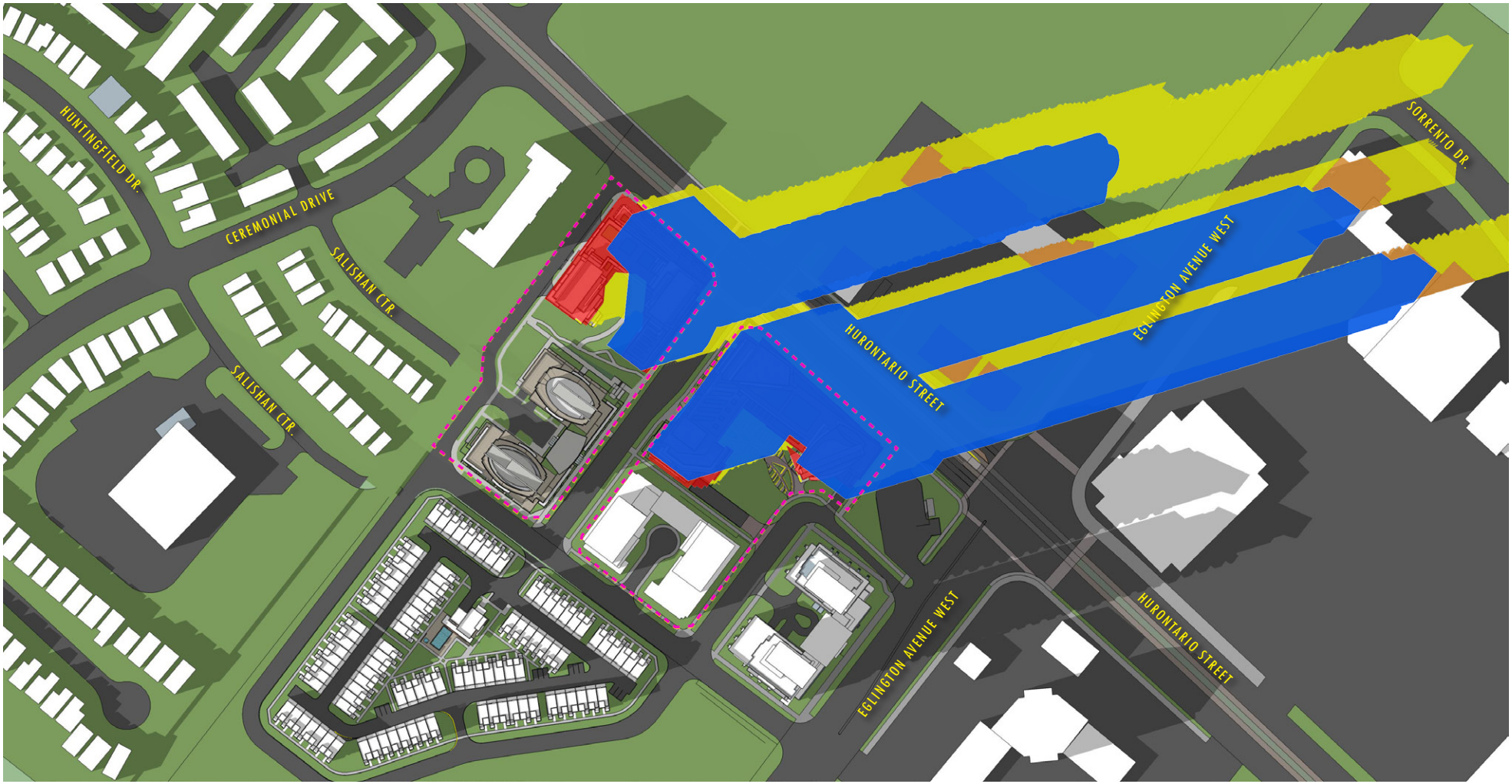

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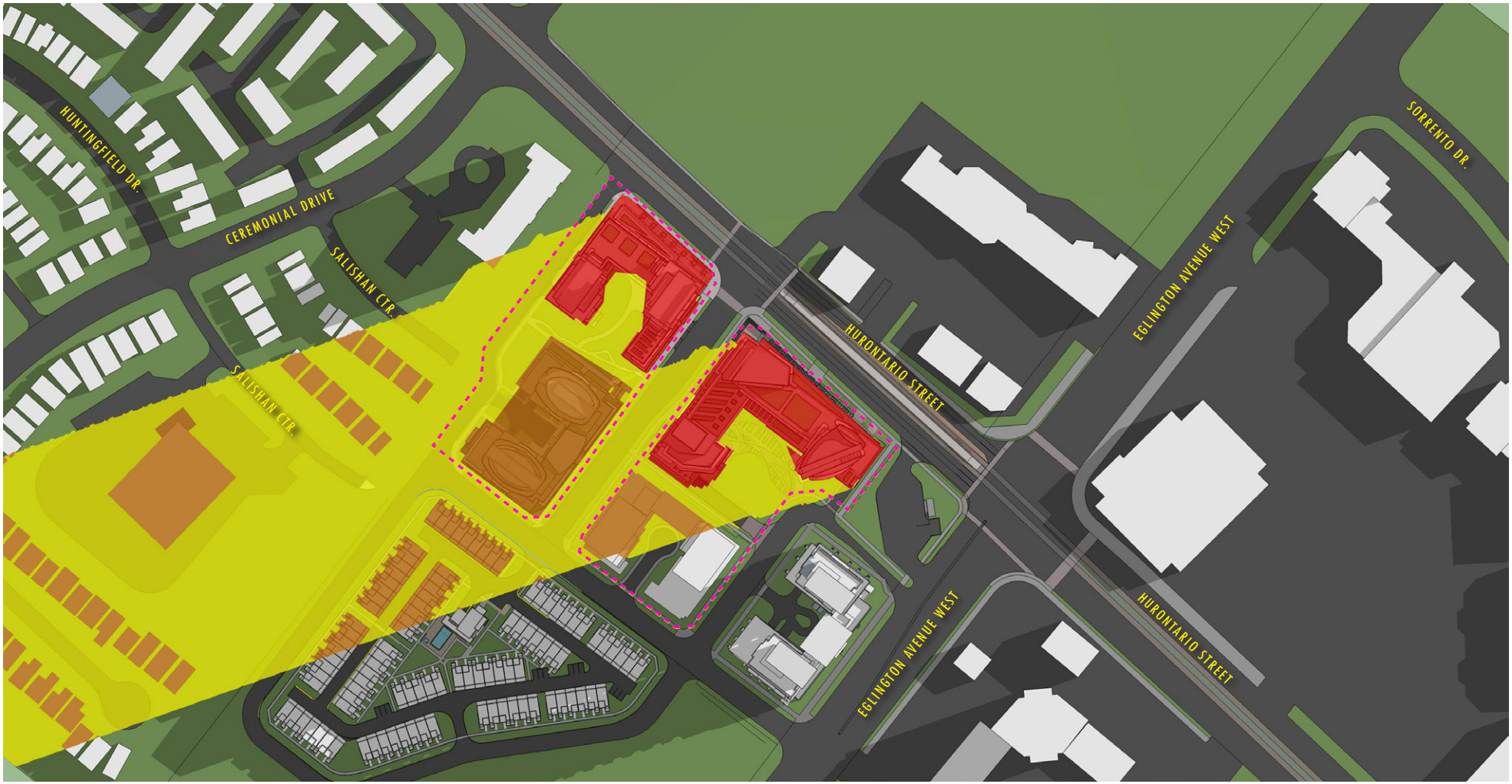

SHADOW STUDY (APPROVED ENVELOPE OVERLAID ON PROPOSED CHANGES)

- ADDITIONAL SHADOW ON THE GROUND
- ADDITIONAL SHADOW ON THE ROOFS
- APPROVED MASTER PLAN SHADOW BOUNDARY

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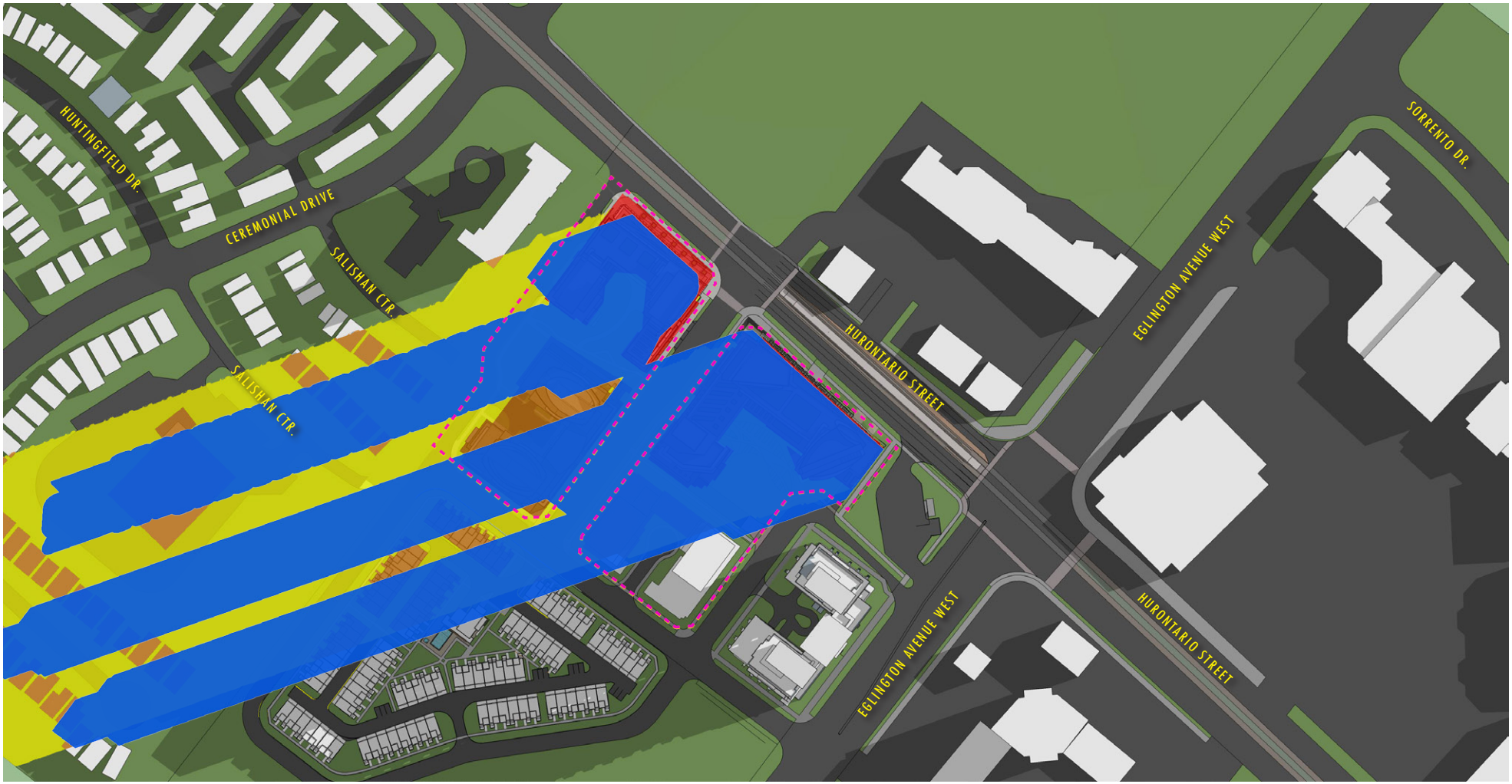

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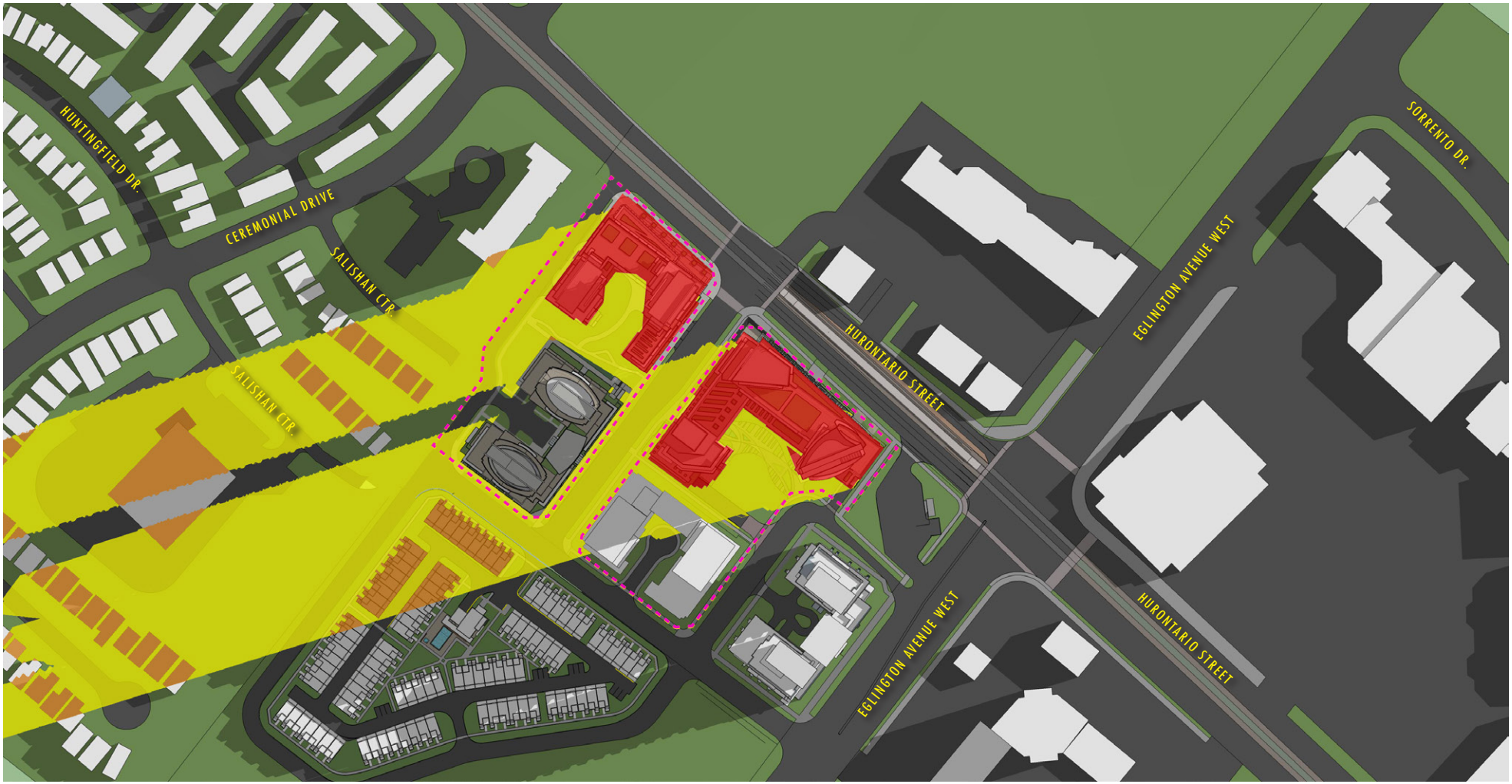

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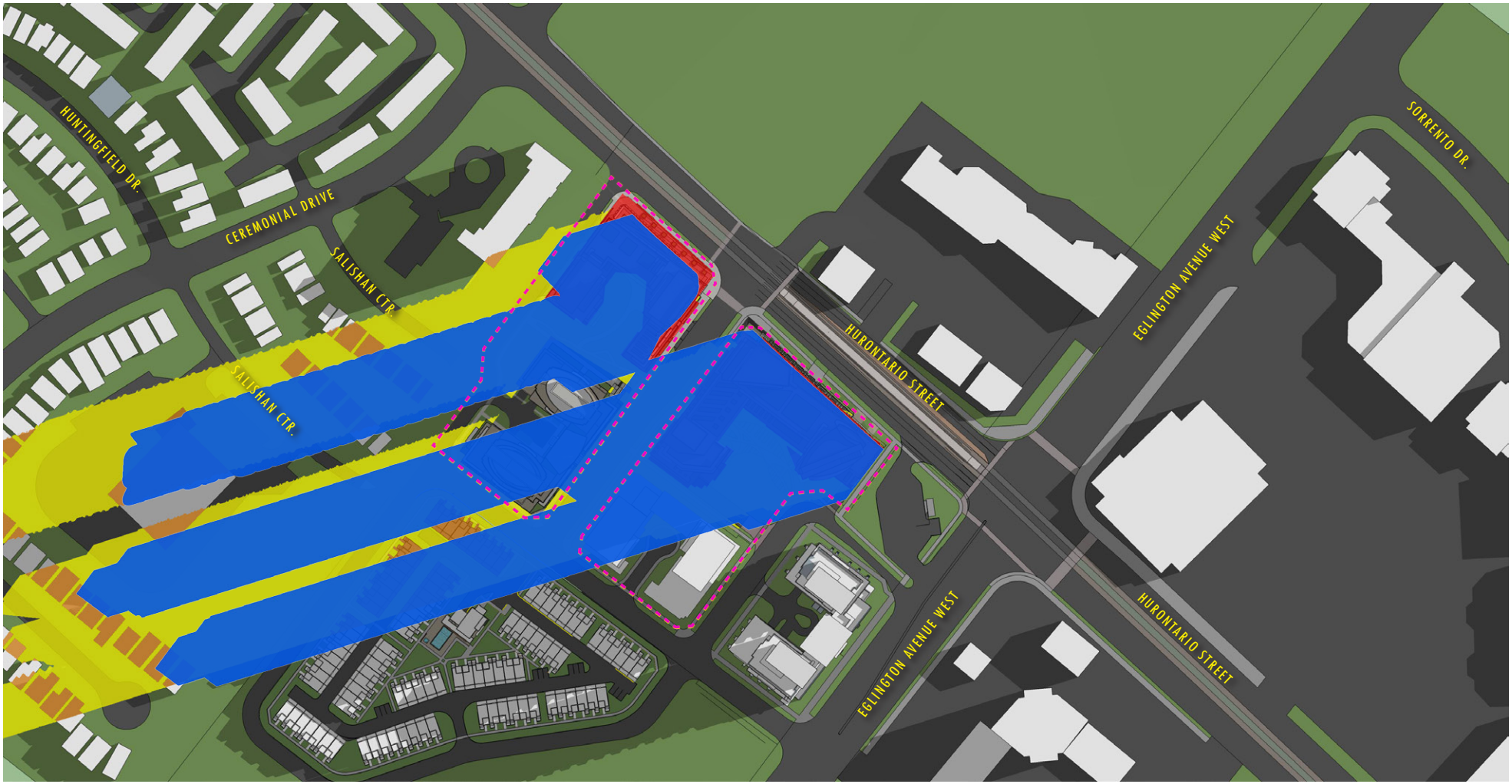

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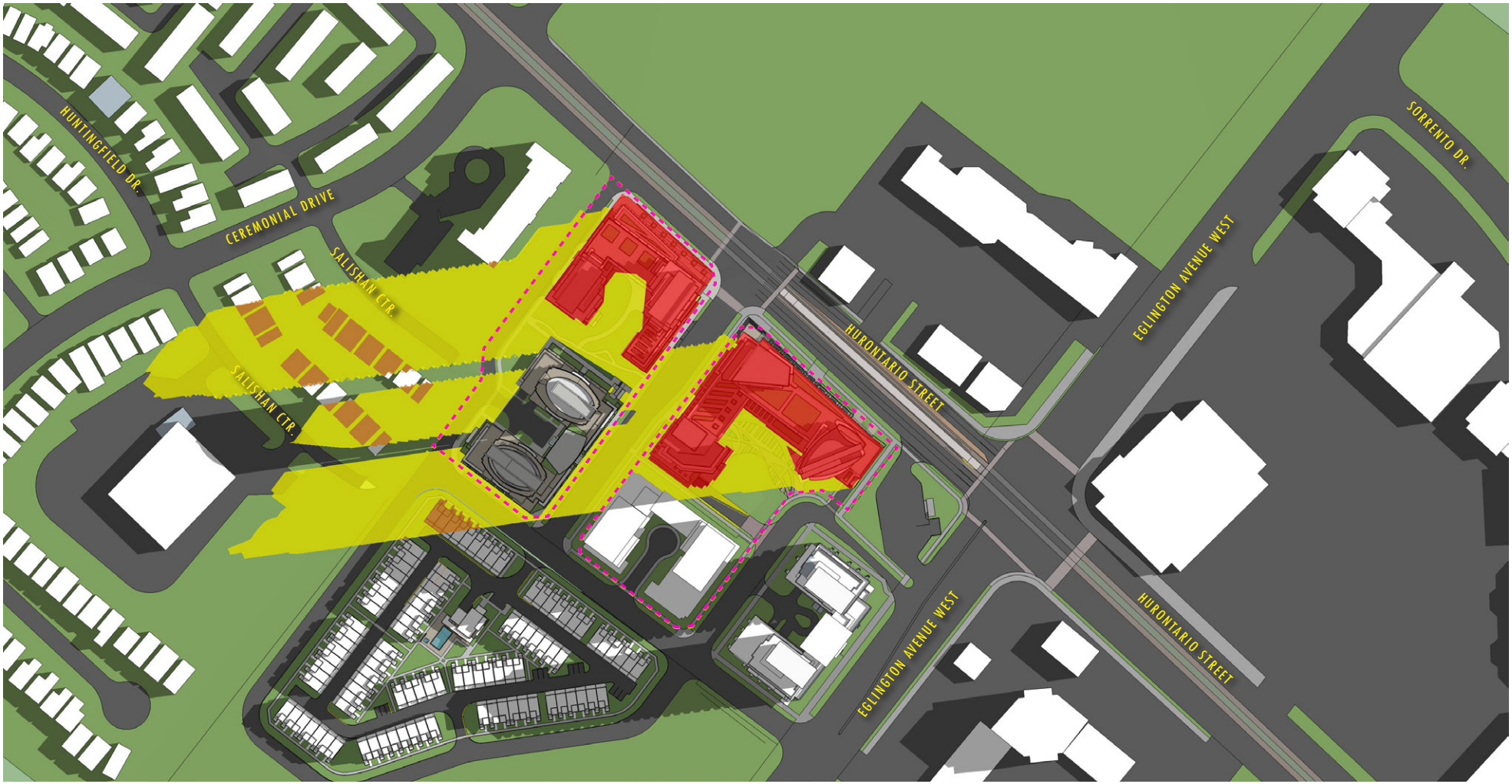

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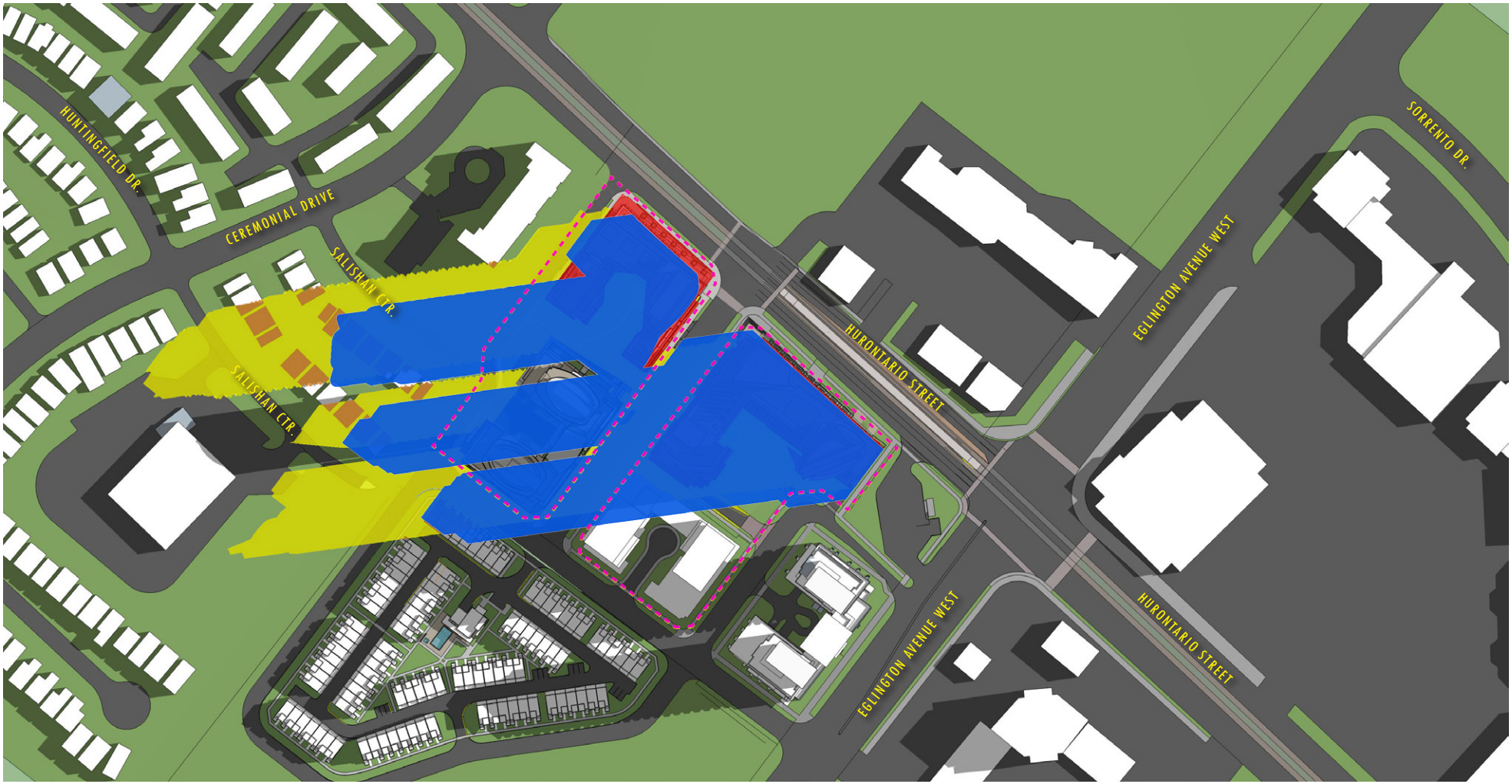

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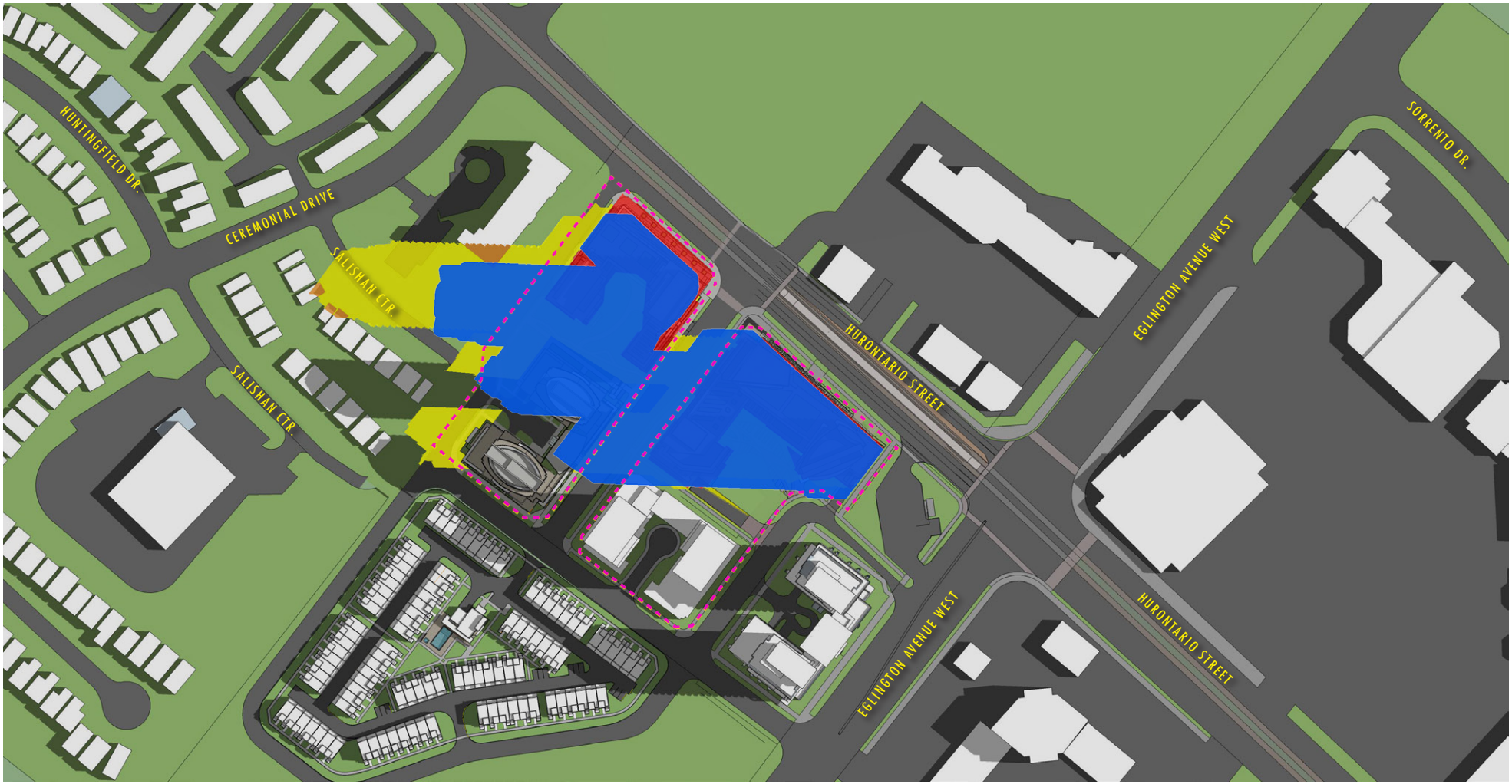

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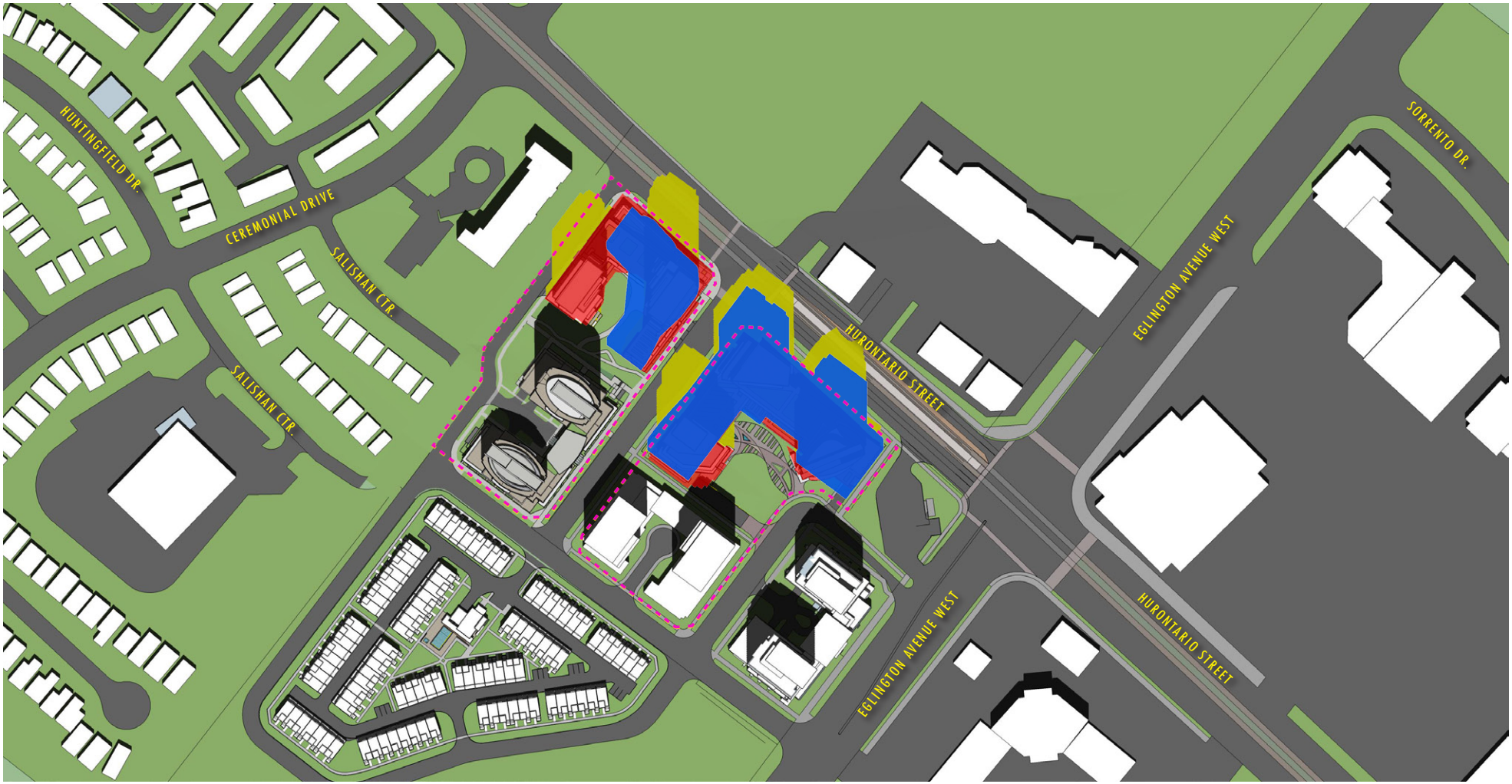

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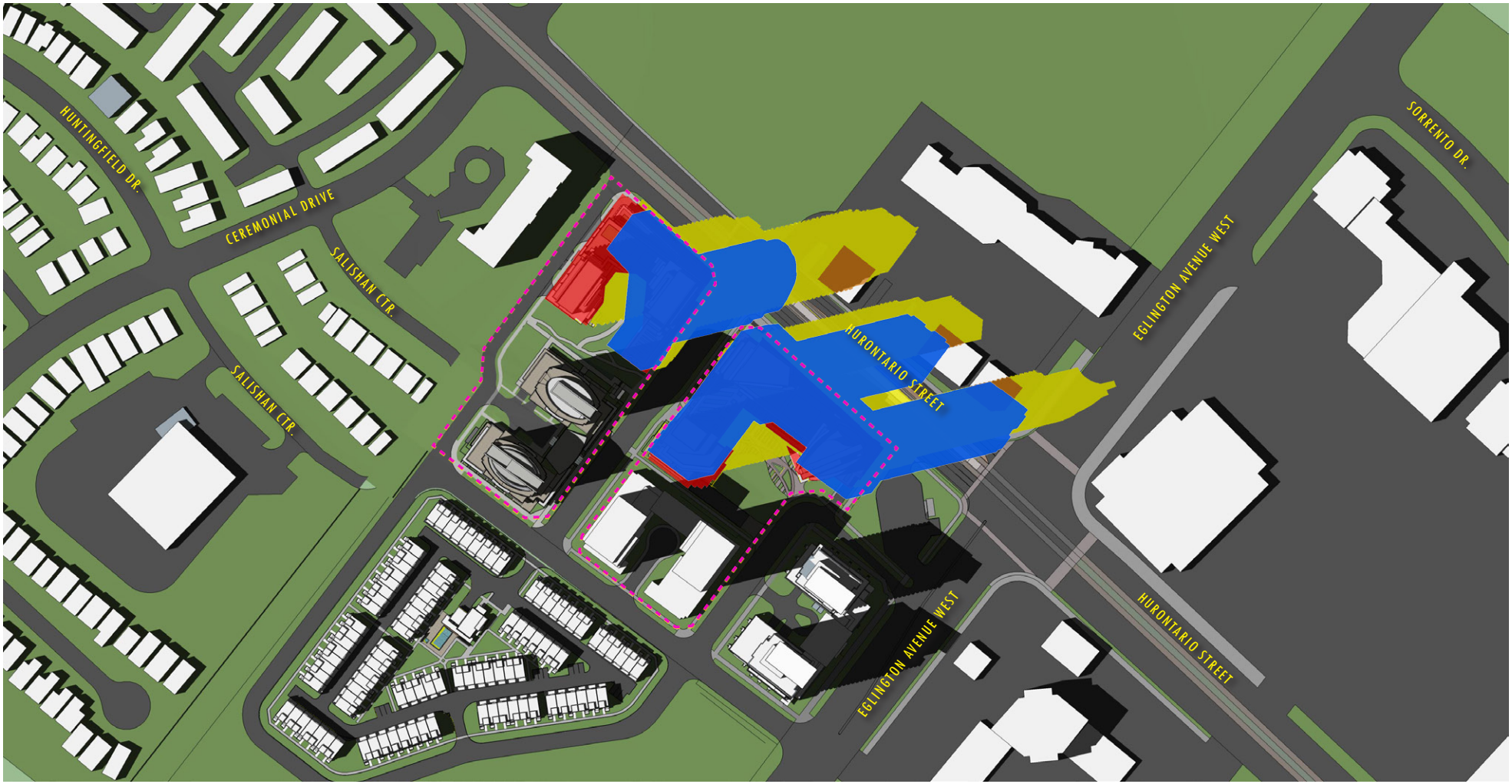

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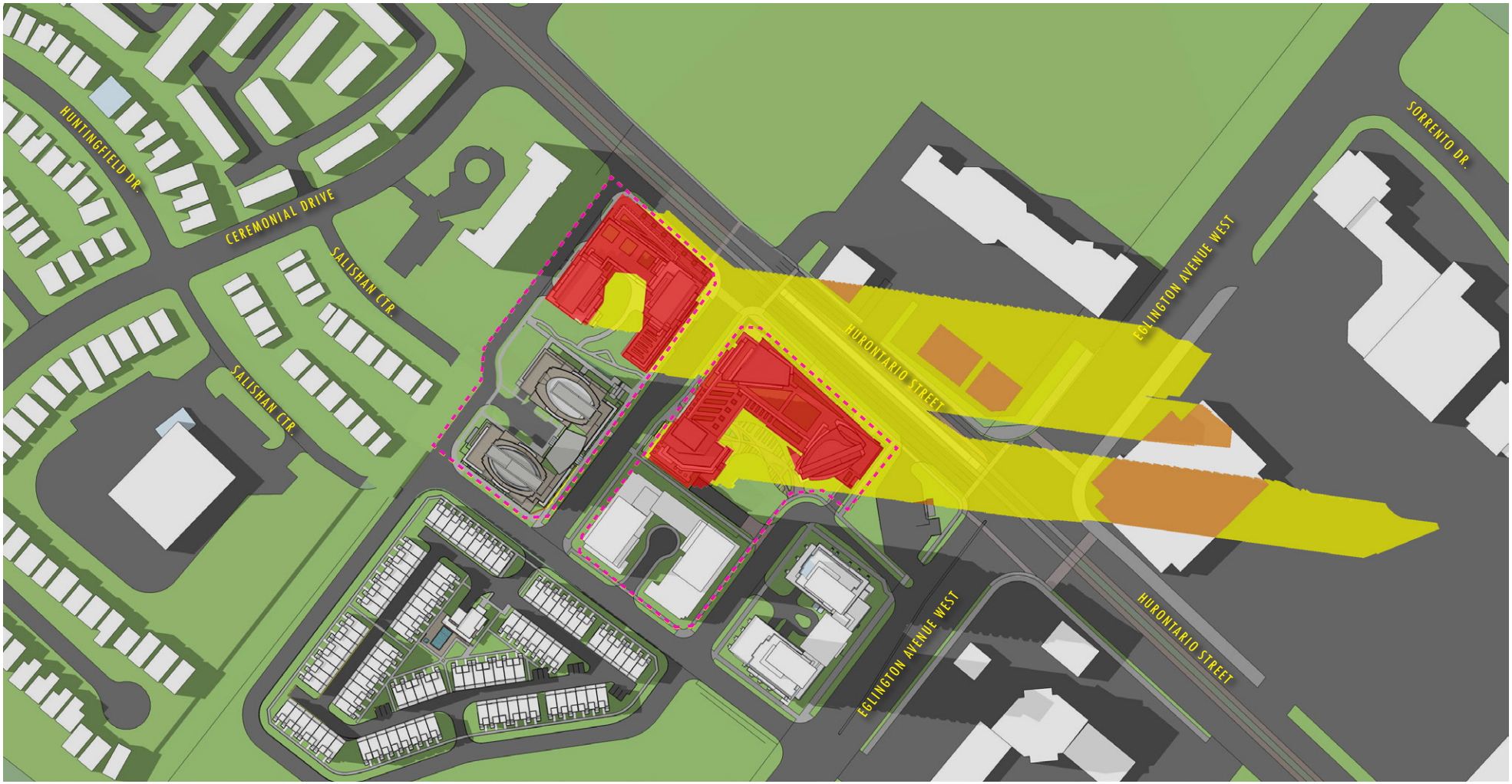

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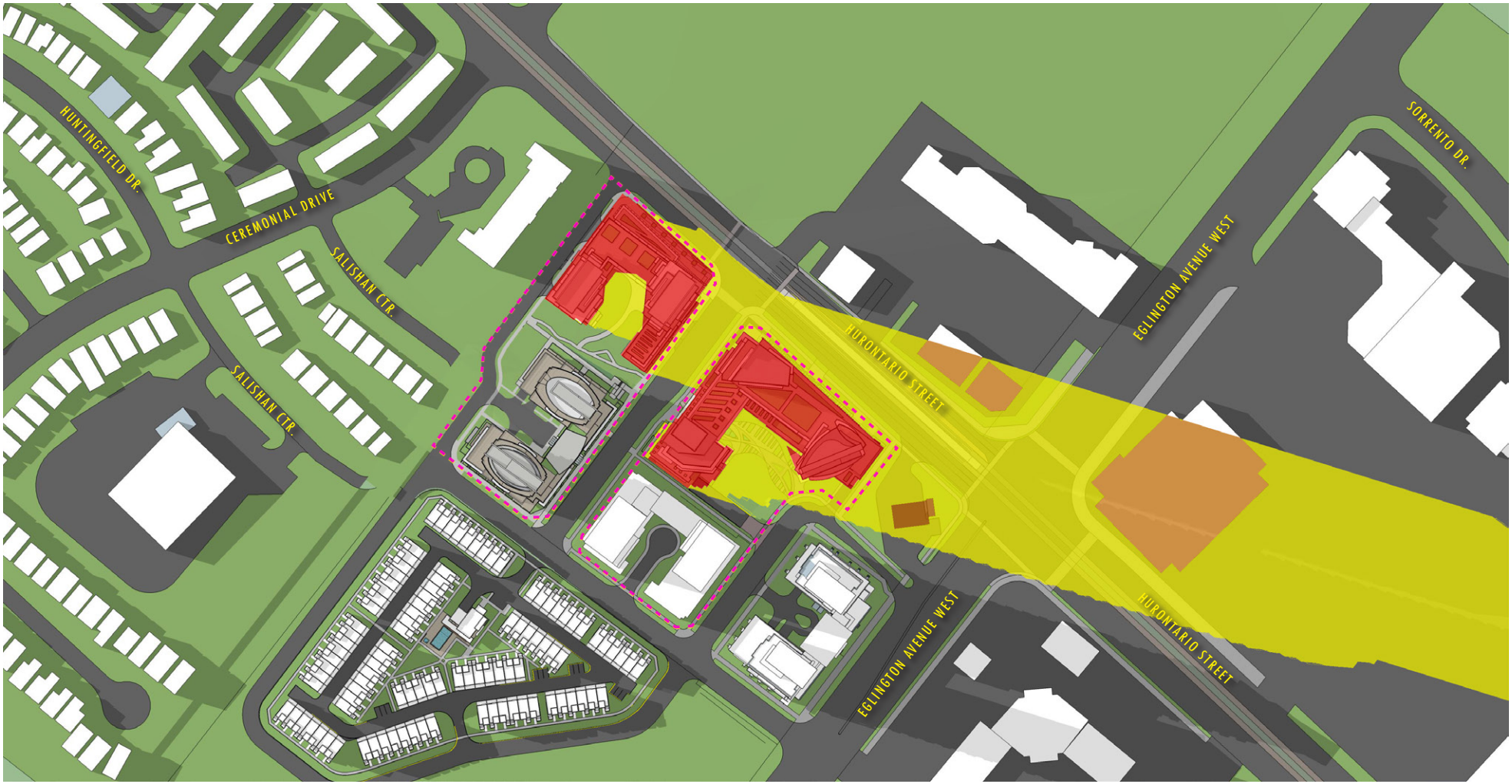

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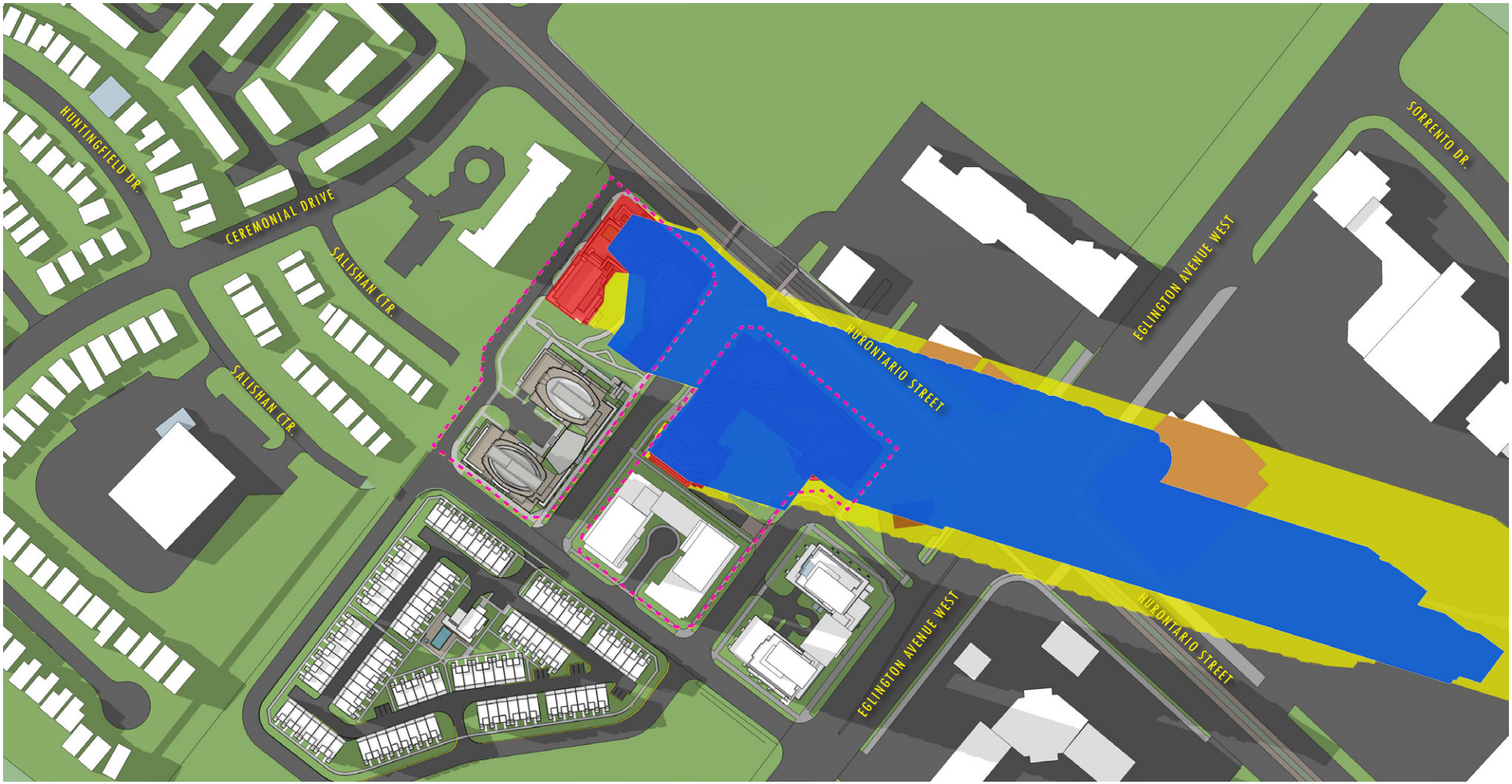

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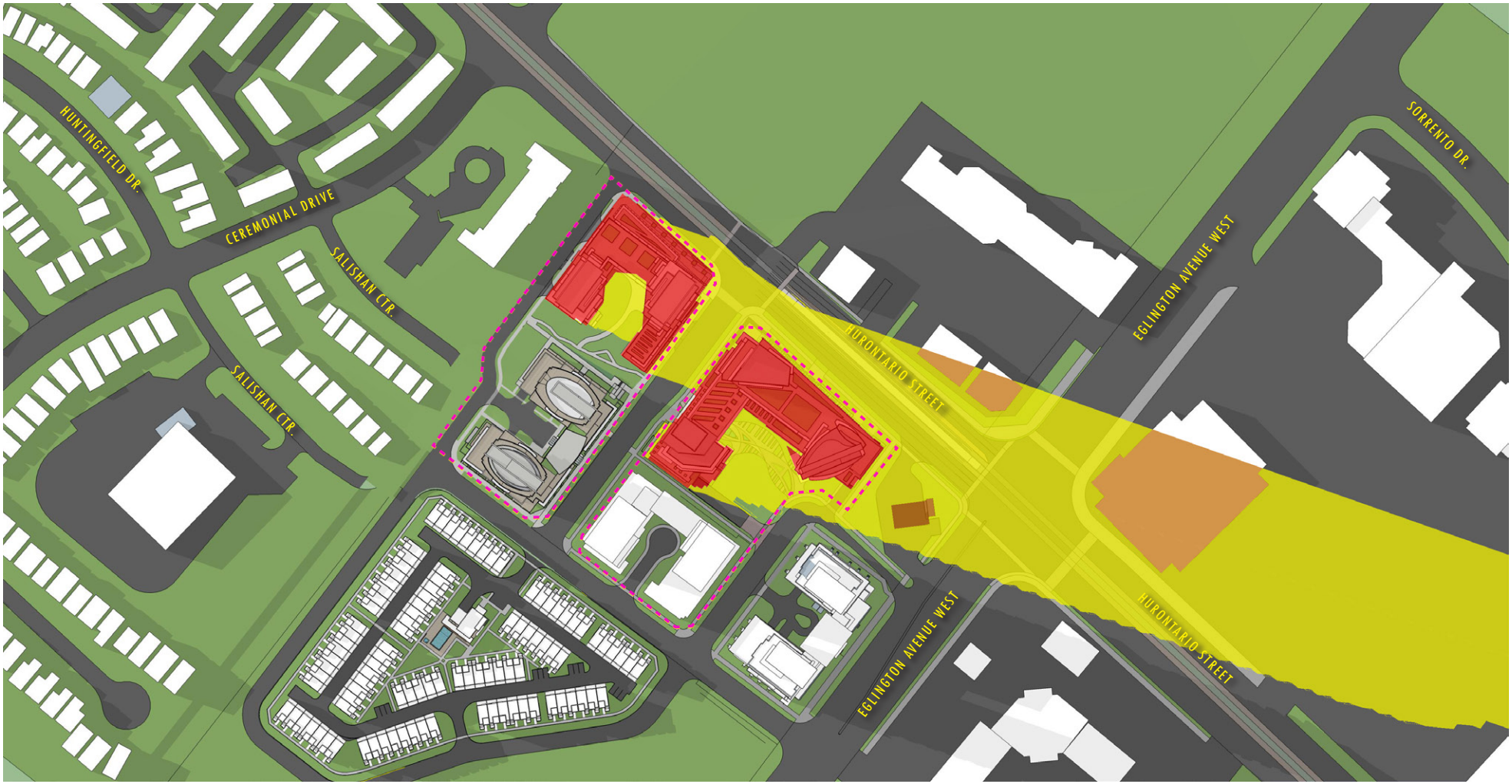
SUN/SHADOW STUDY WATERGARDEN (PHASE 4, PART 2)(RA5-43) & (PHASE 5) (RA5-42), CITY OF MISSISSAUGA,ONTARIO



SHADOW STUDY (BASED ON PROPOSED NEW ENVELOPE)

ADDITIONAL SHADOW ON THE GROUND

ADDITIONAL SHADOW ON THE ROOFS

SITE BOUNDARY

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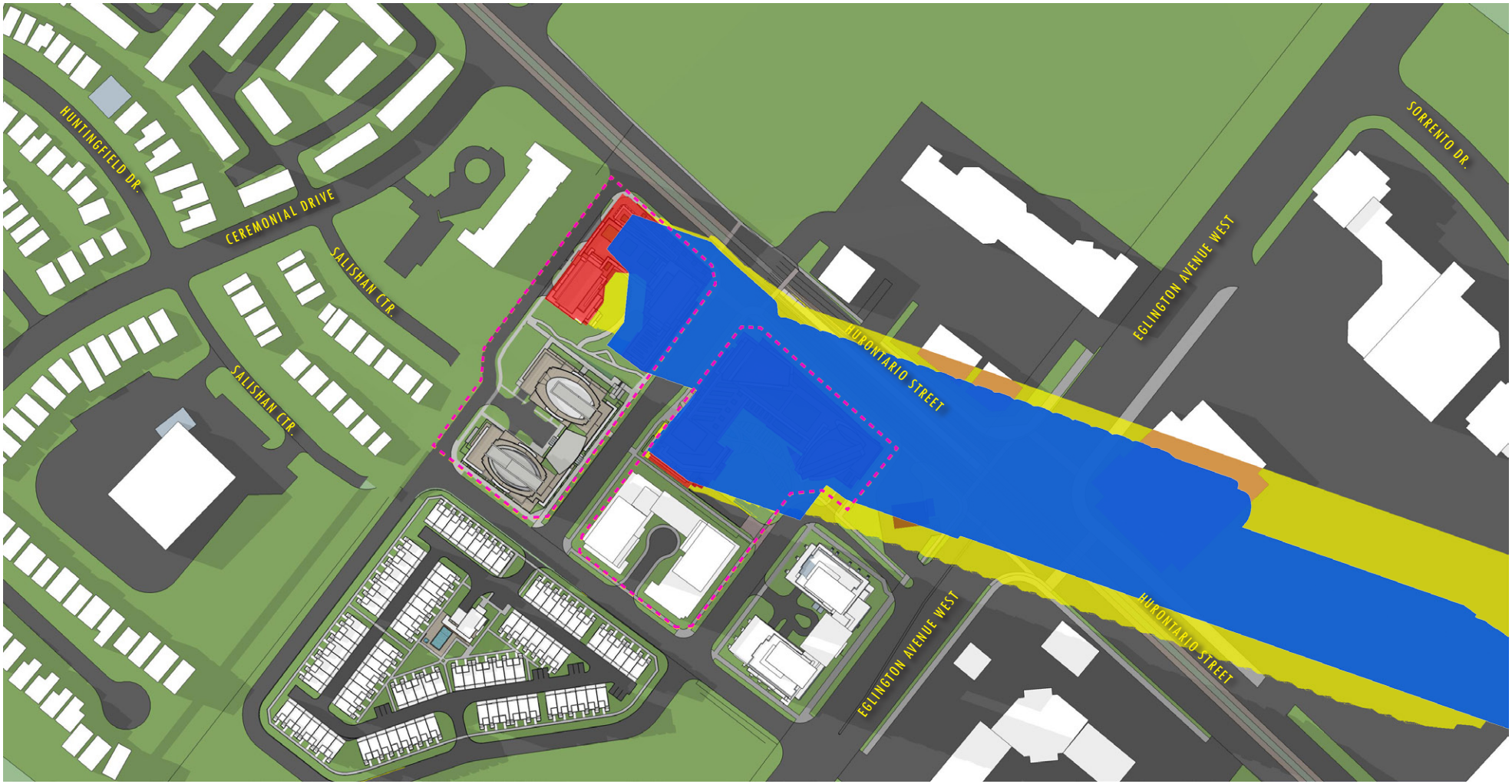
SUN/SHADOW STUDY WATERGARDEN (PHASE 4, PART 2)(RA5-43) & (PHASE 5) (RA5-42), CITY OF MISSISSAUGA,ONTARIO



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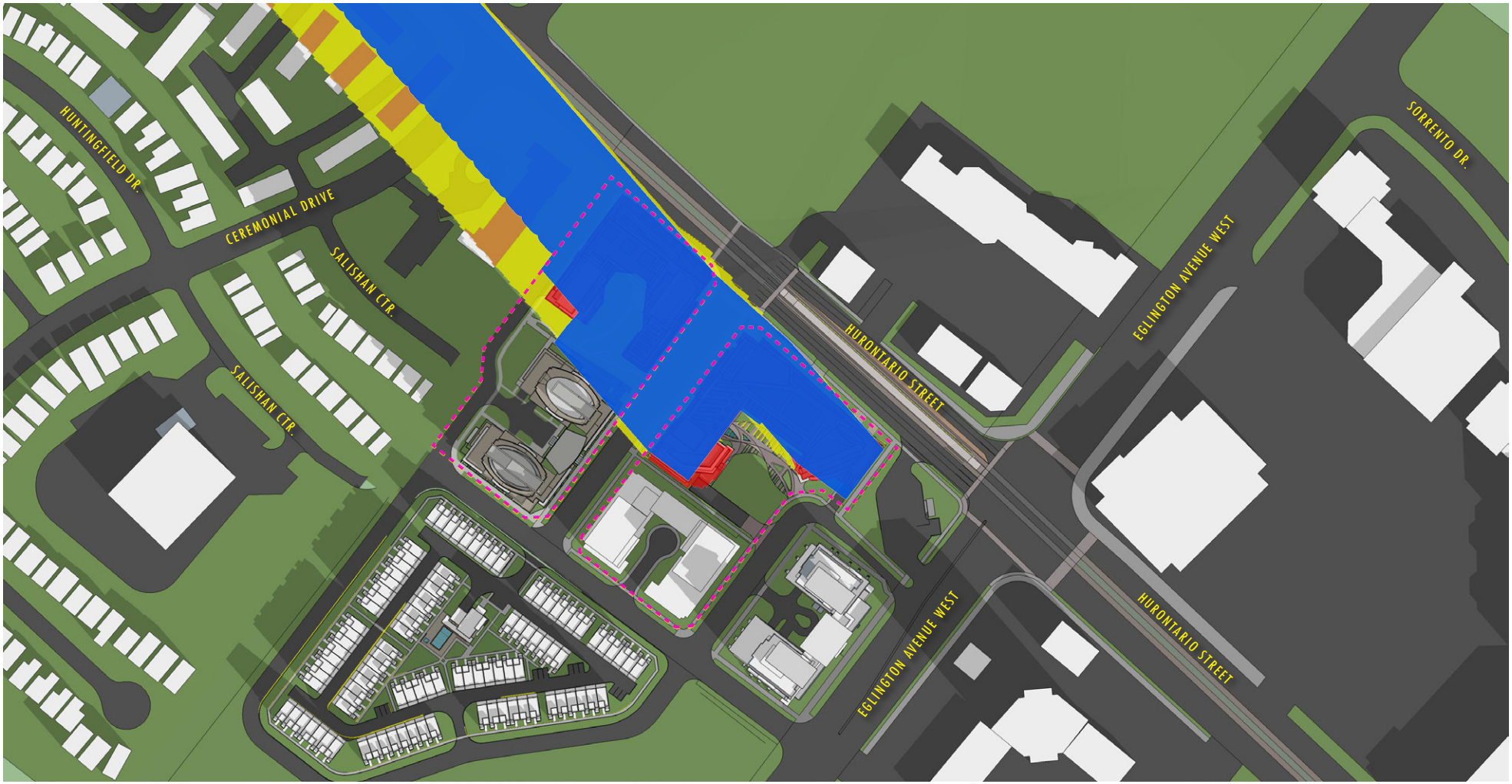

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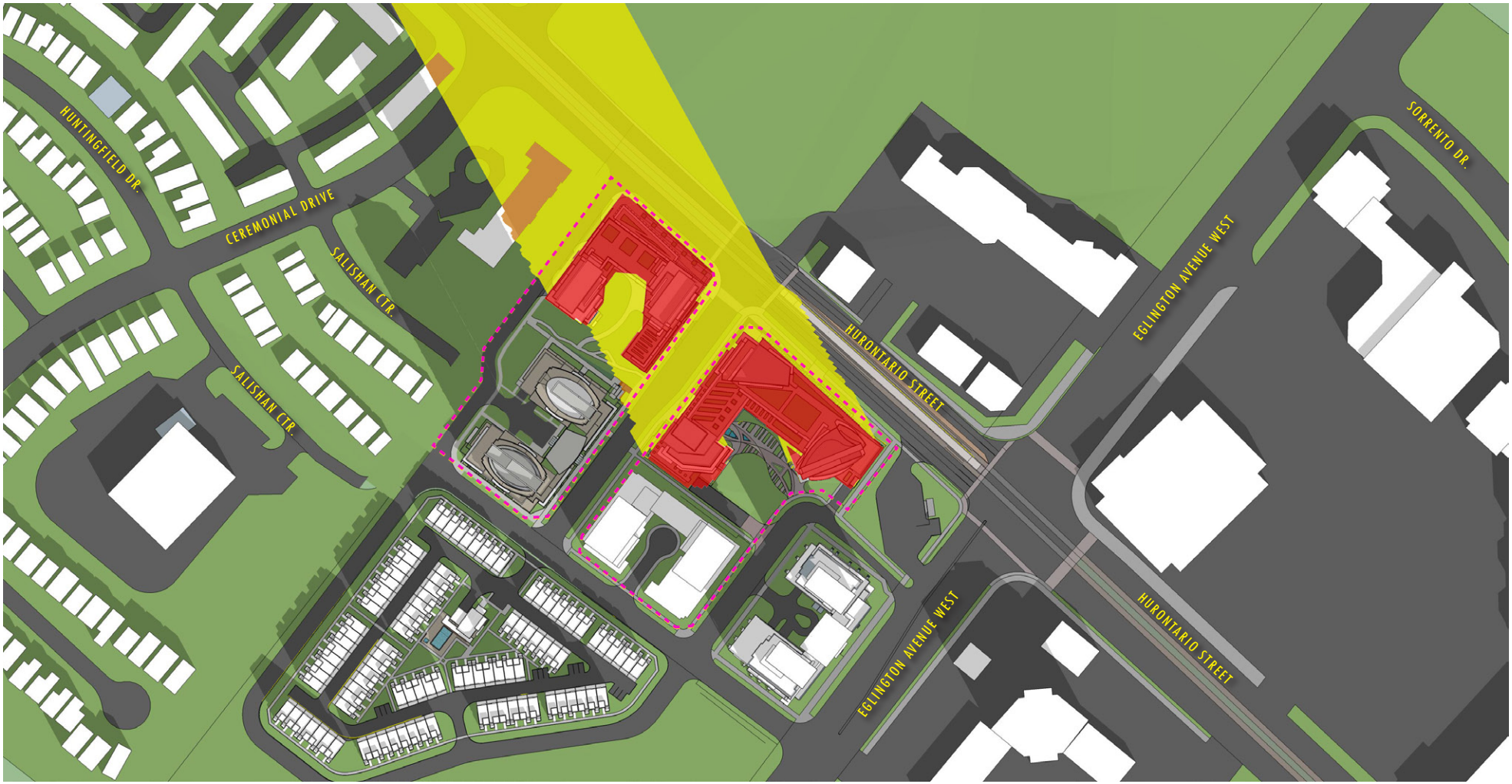

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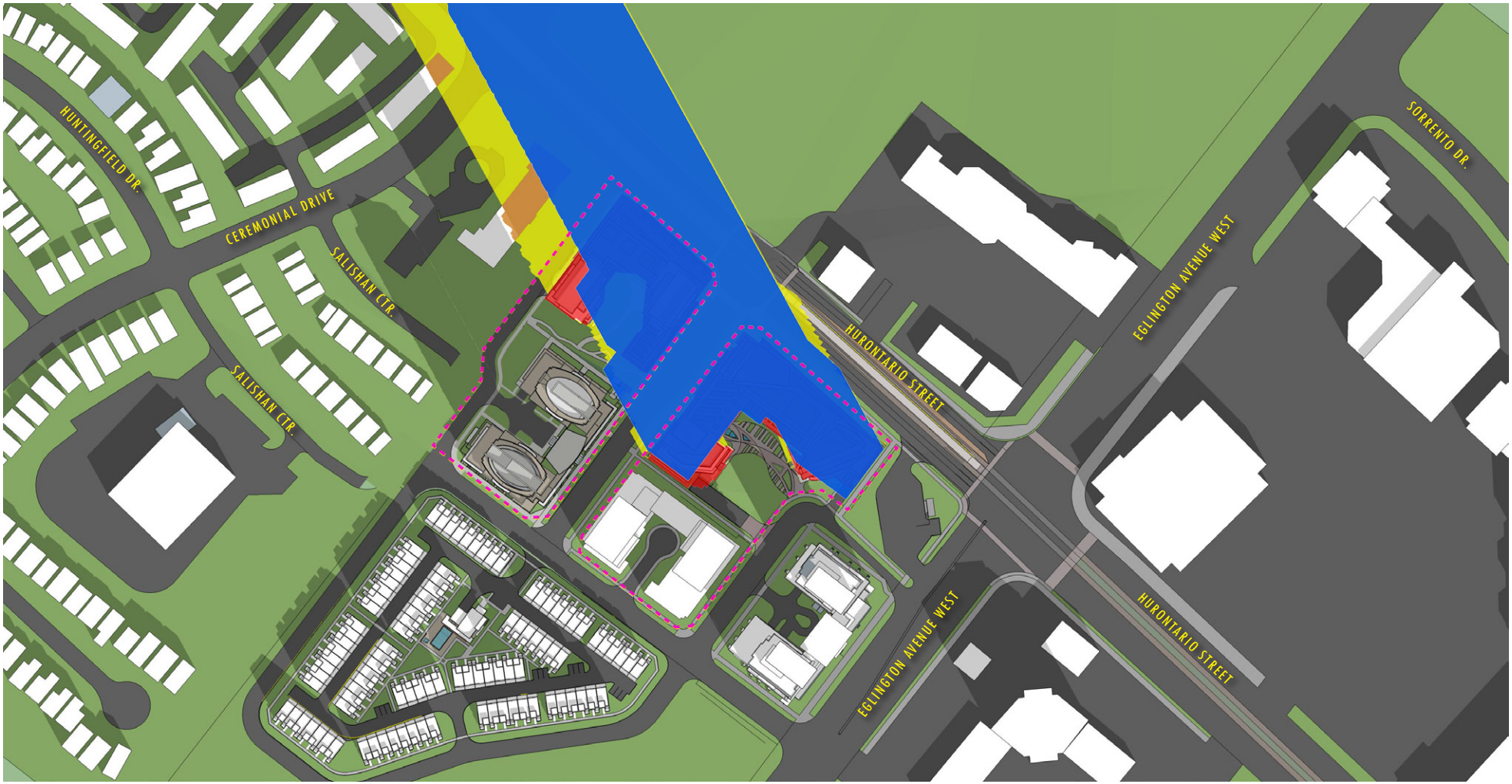

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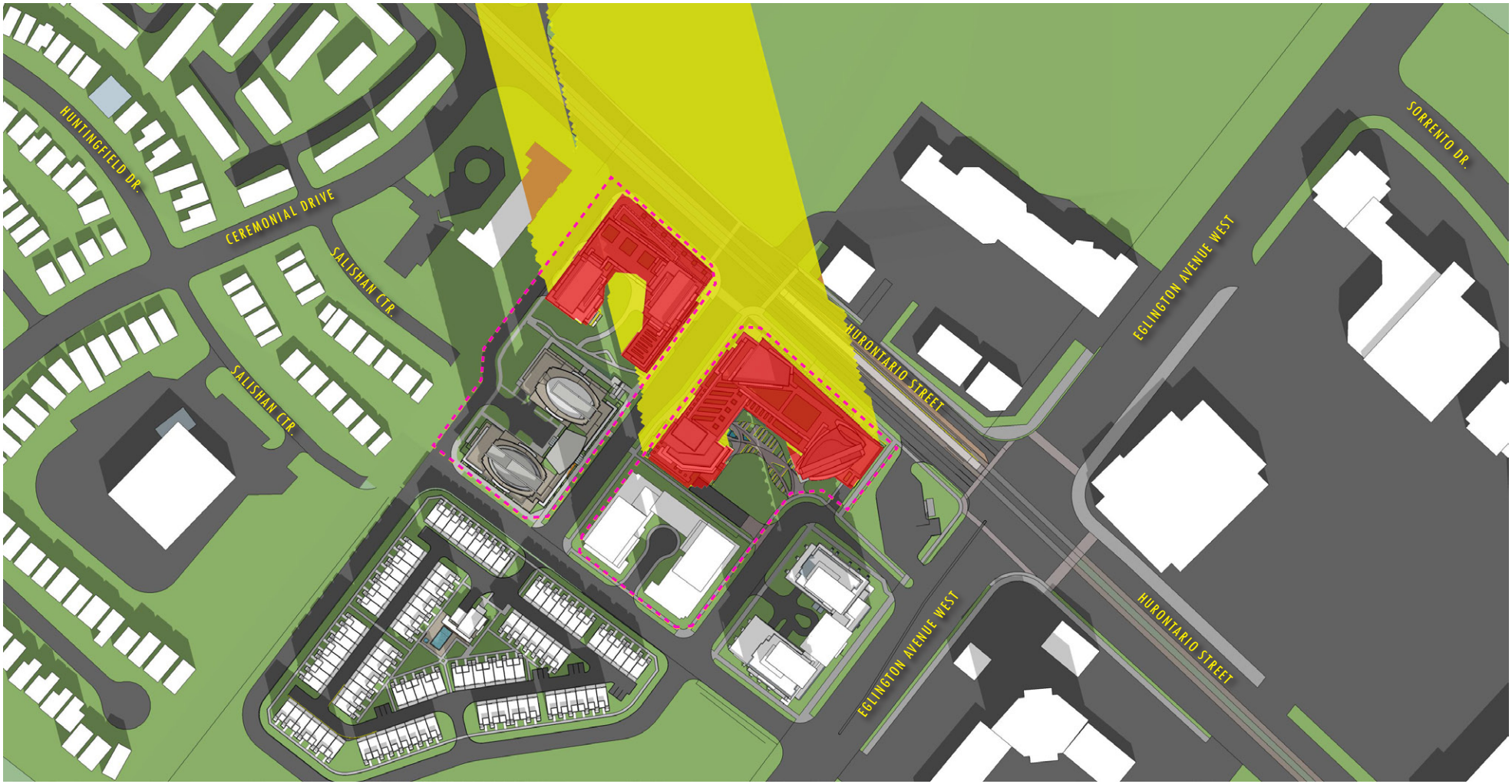

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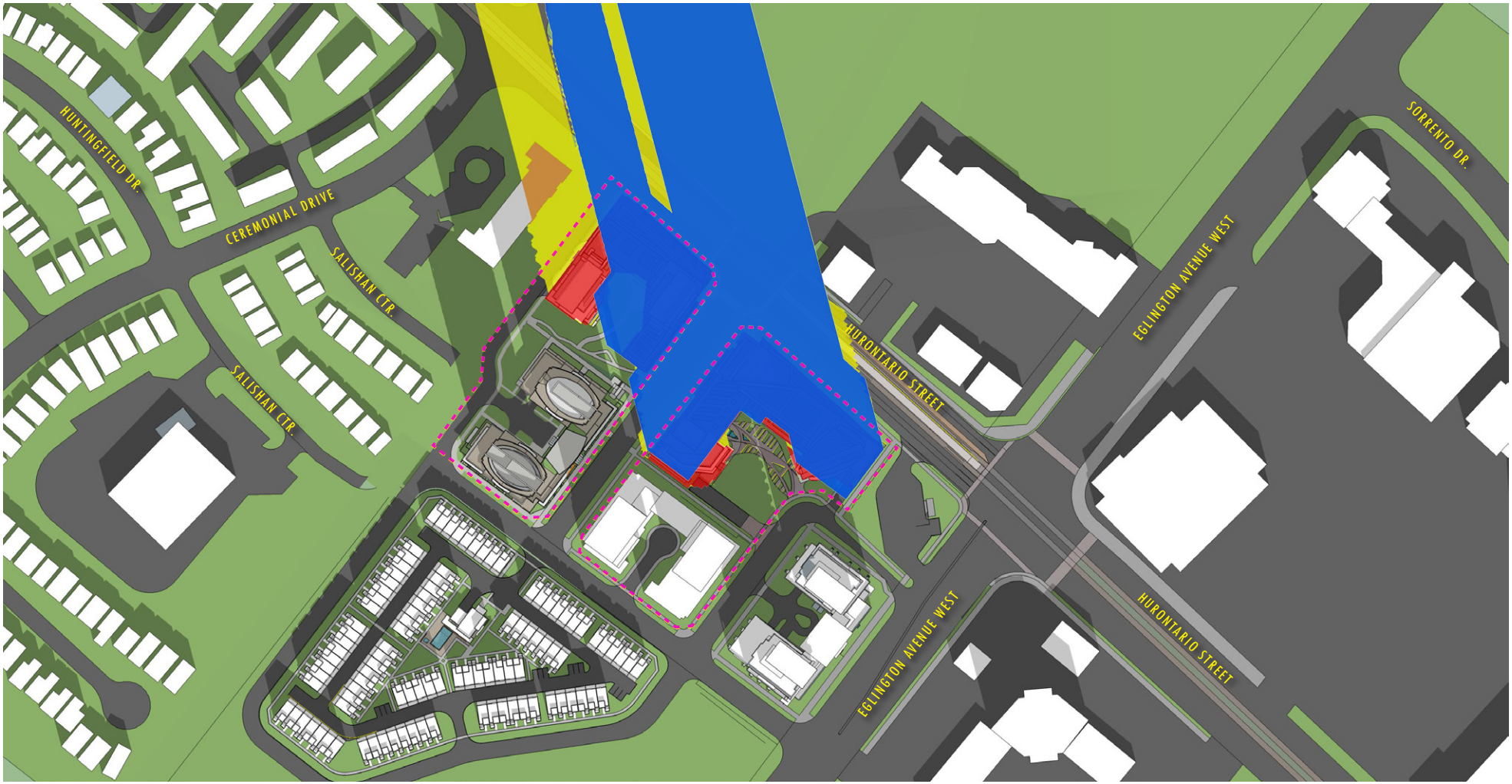

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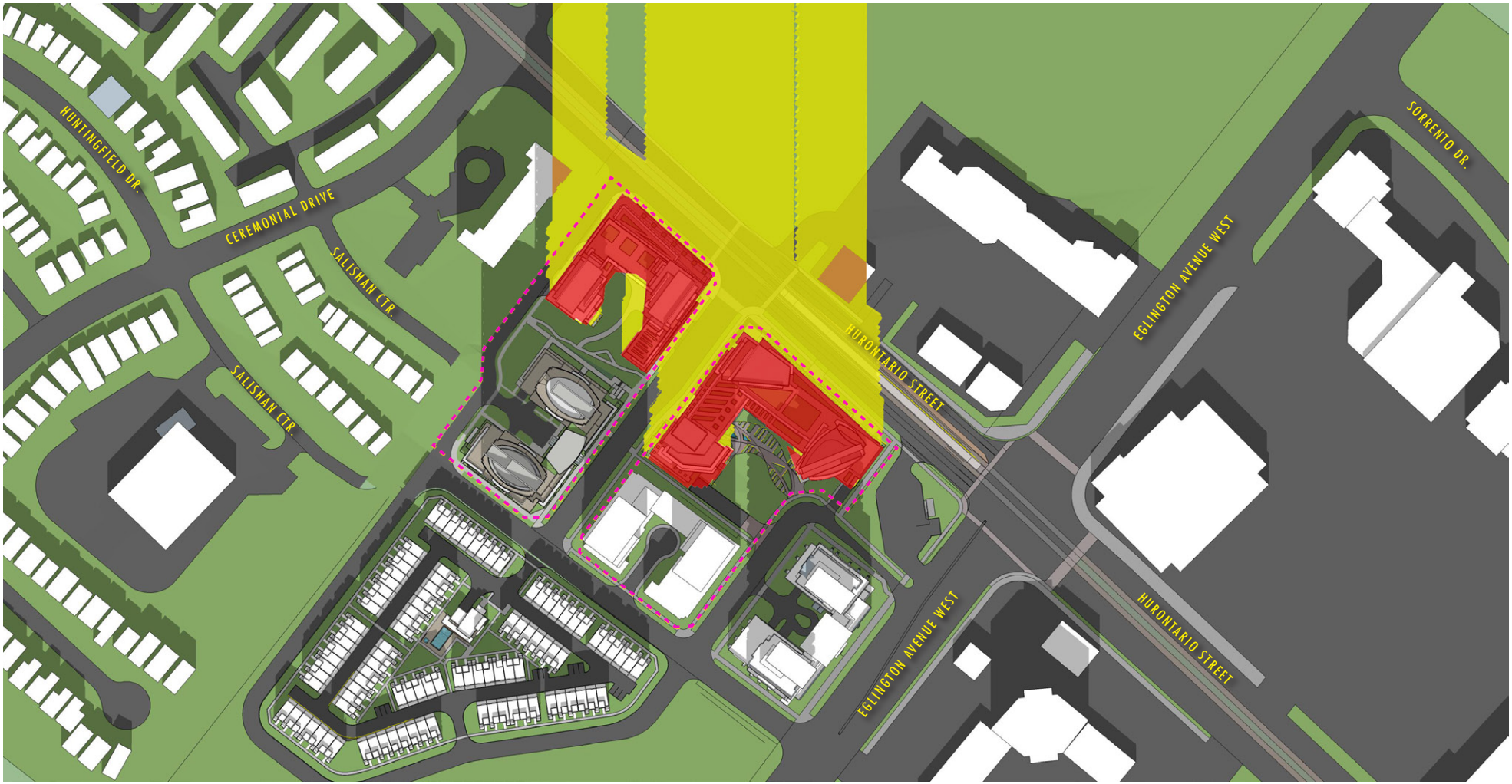

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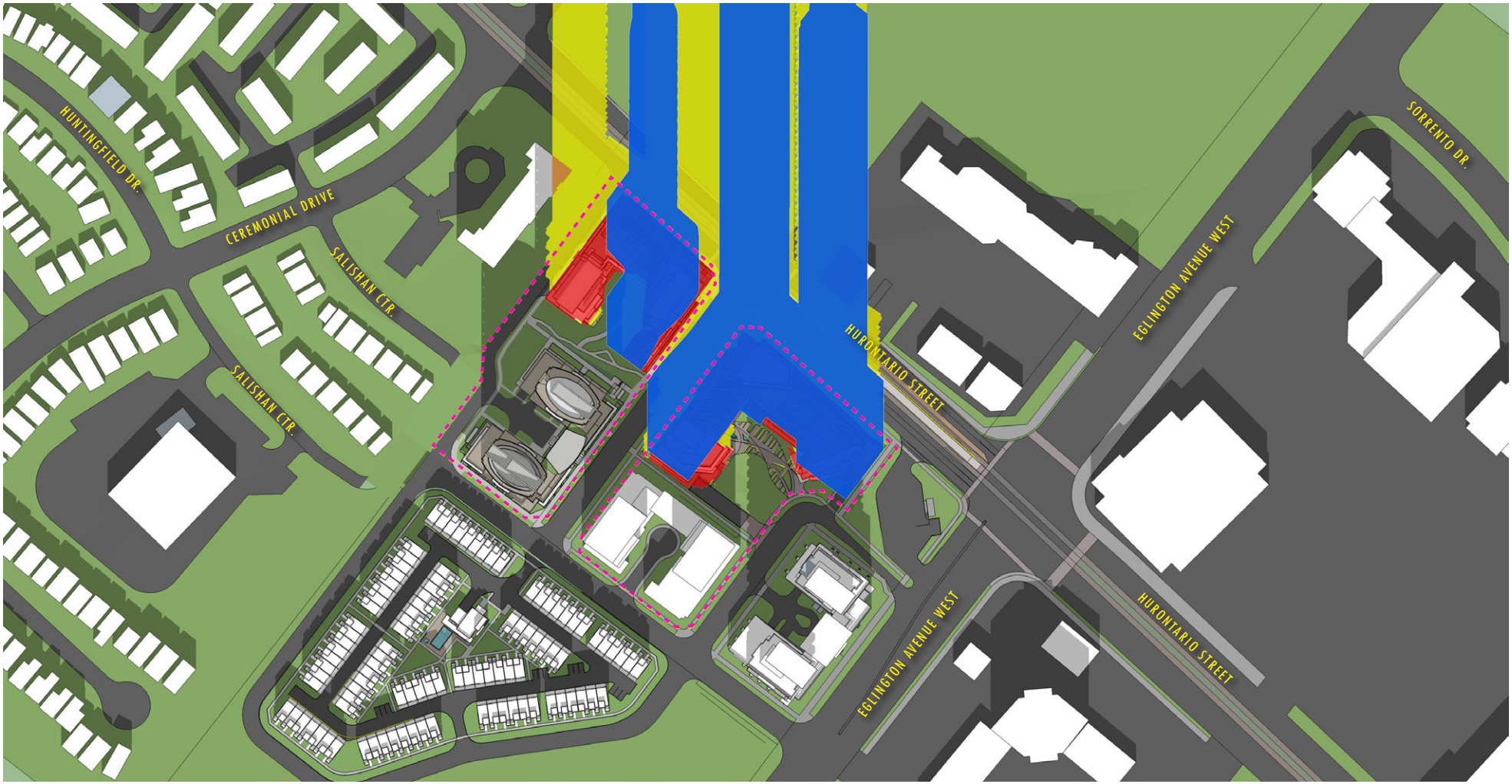

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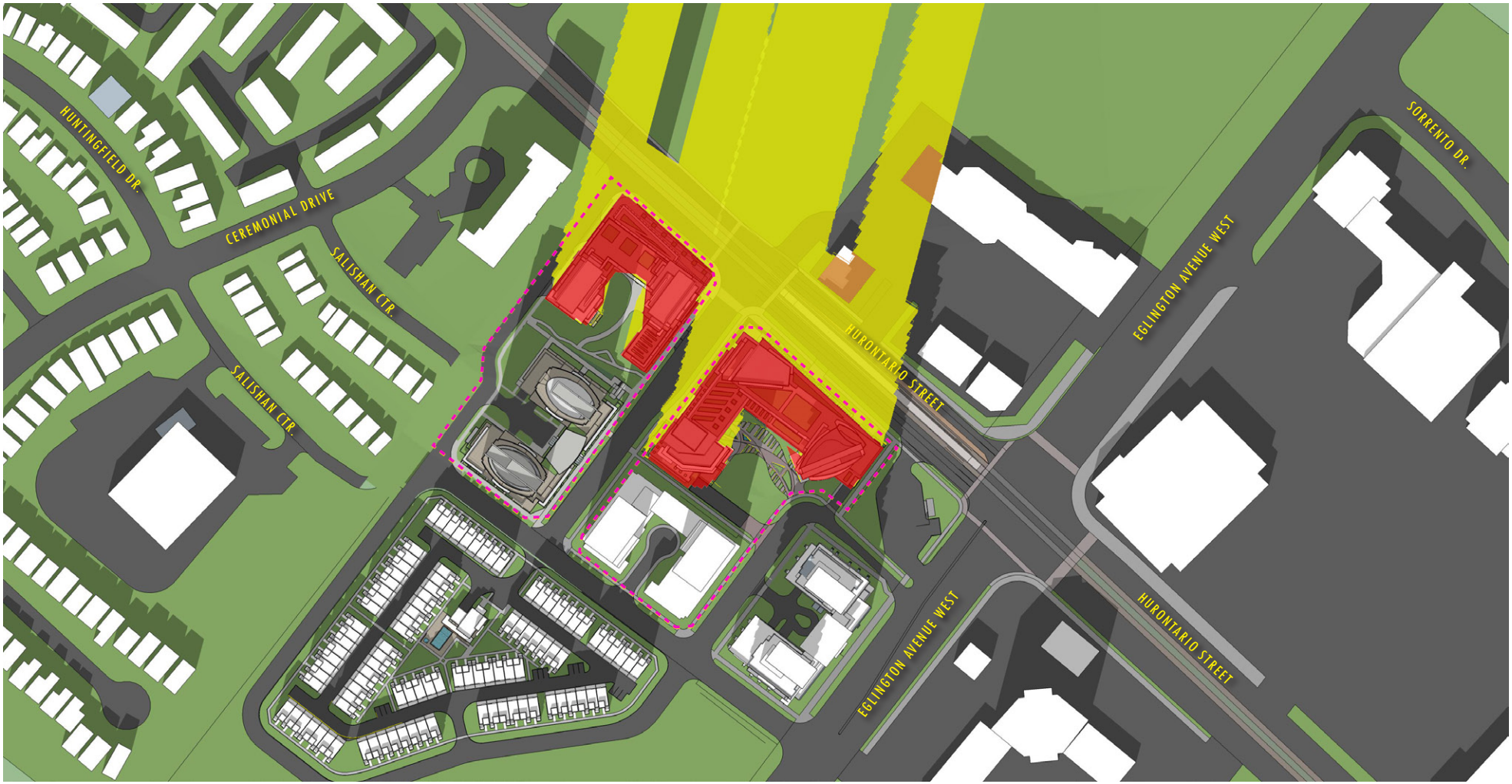

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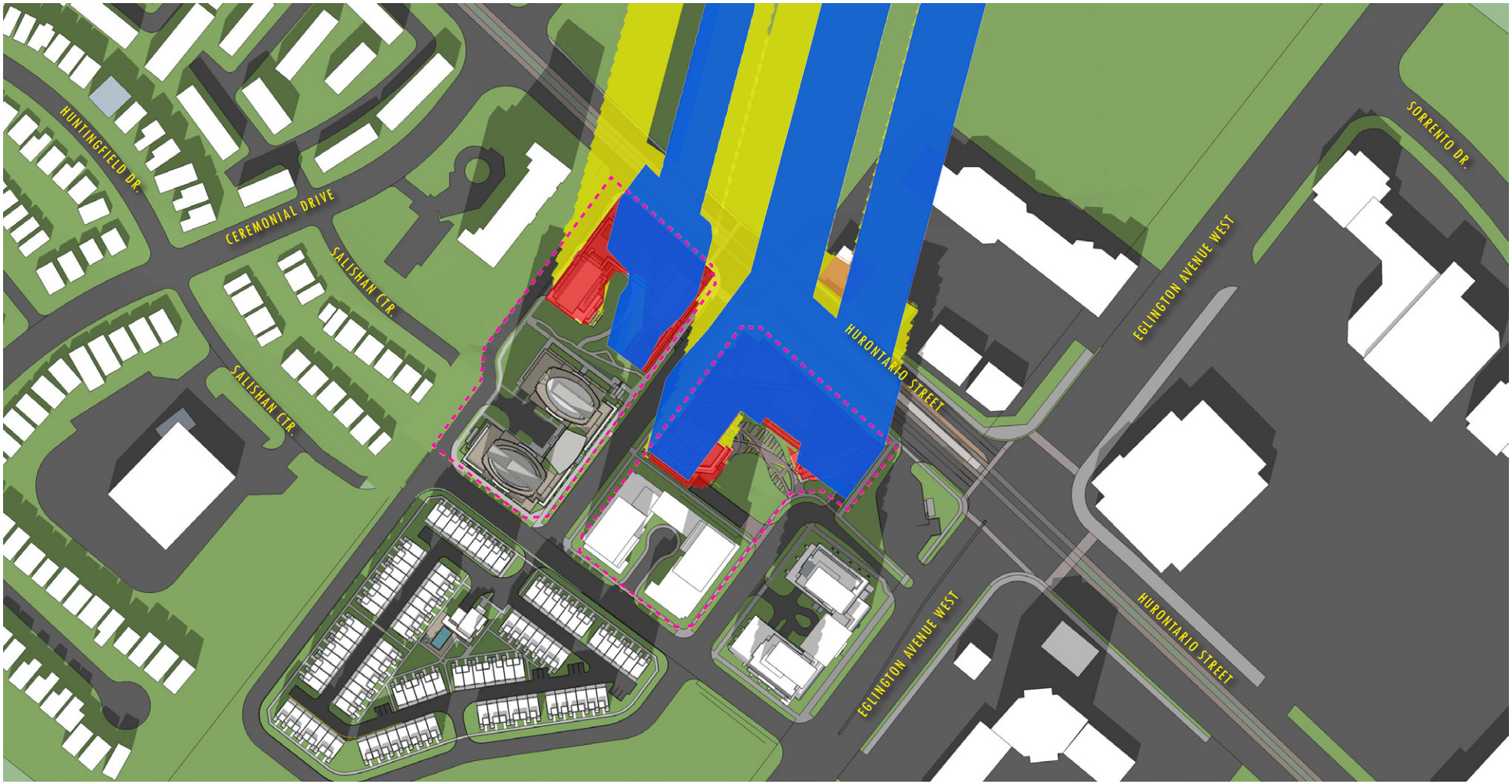

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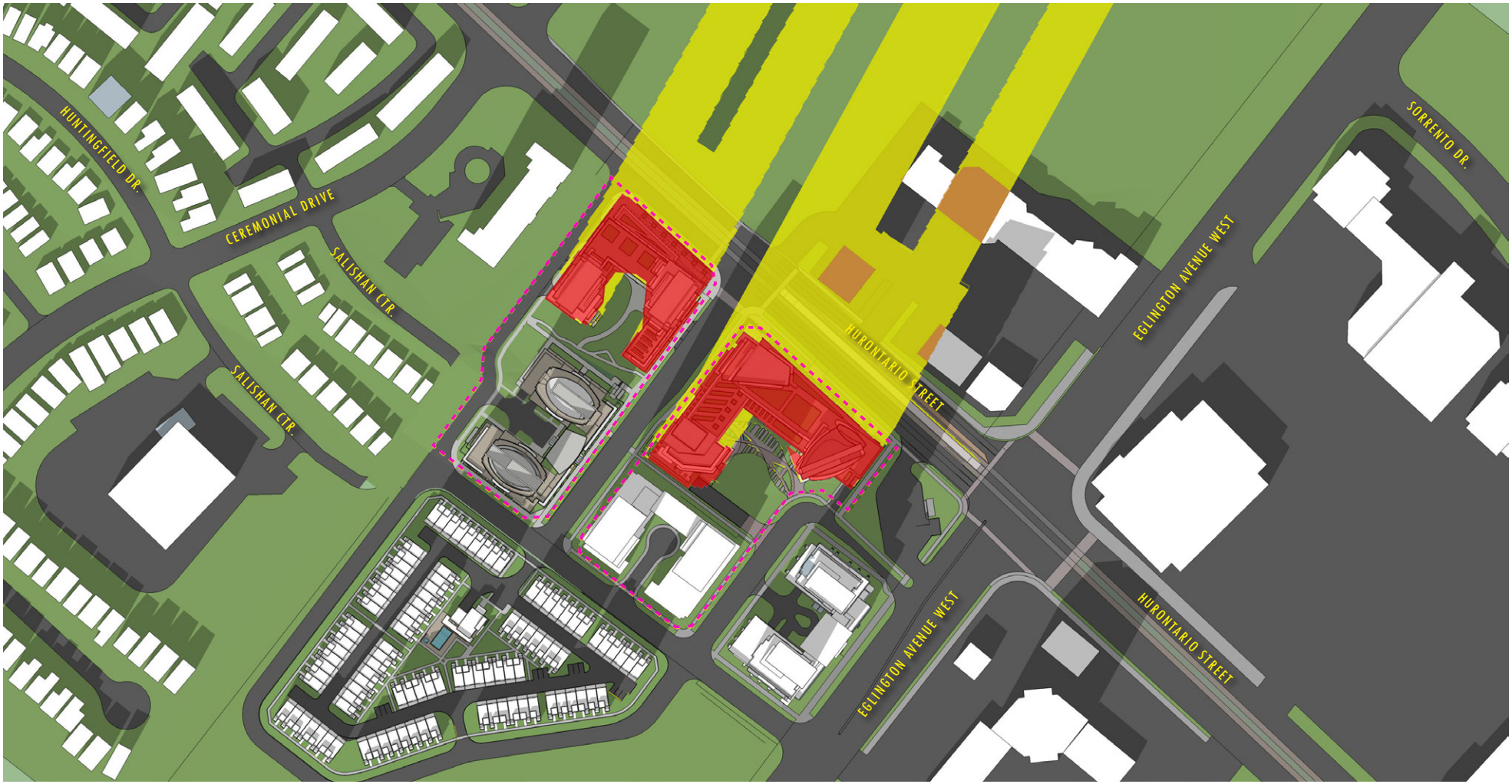

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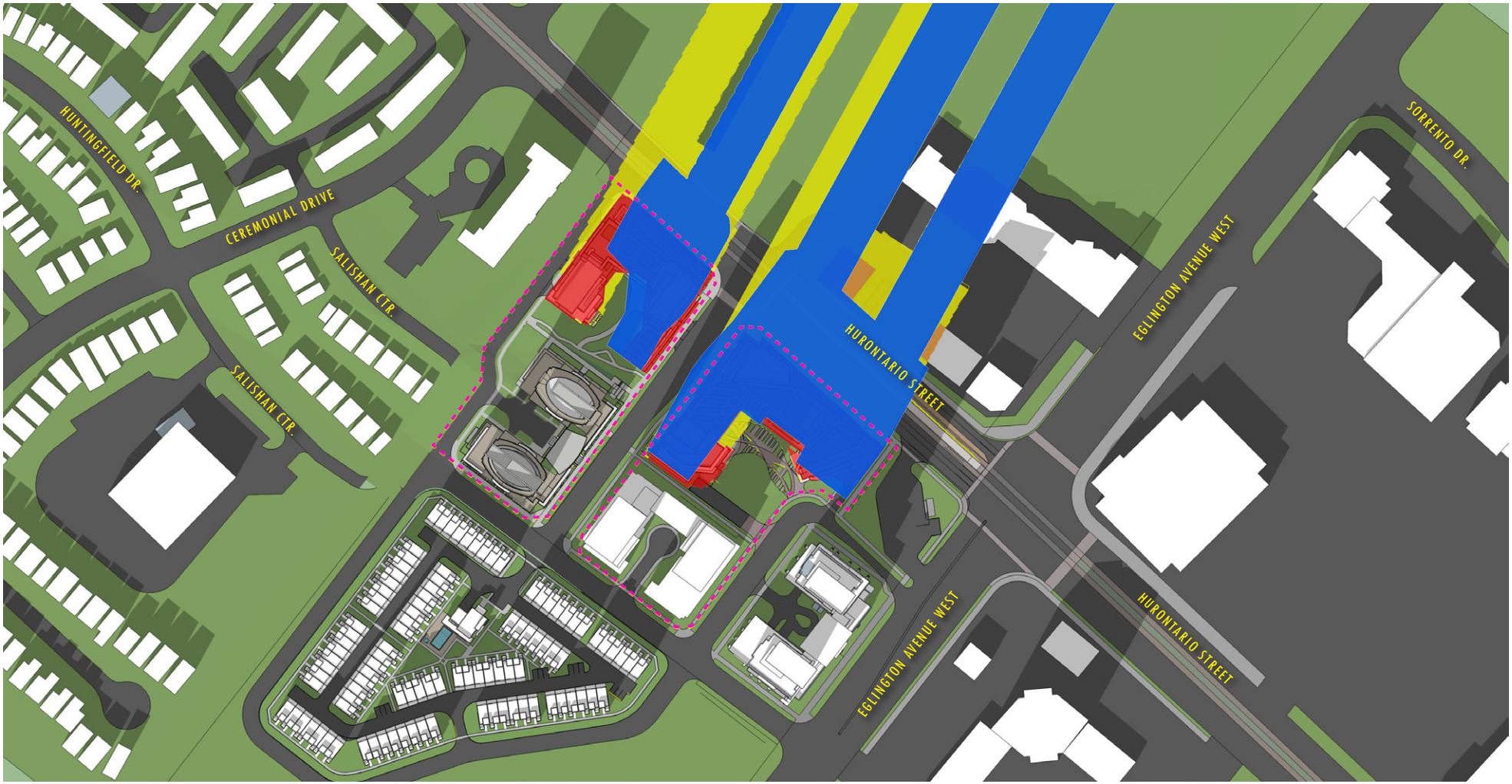

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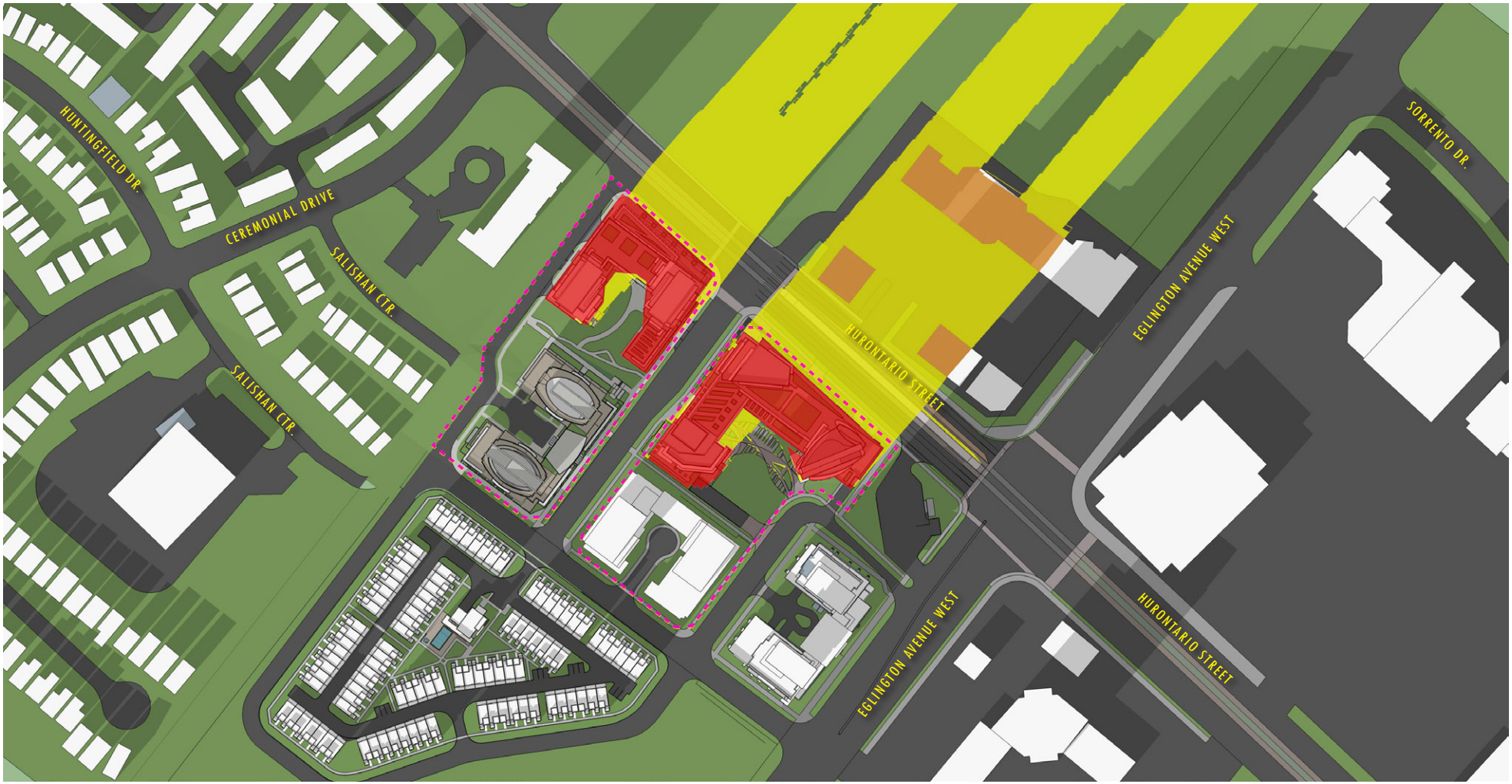

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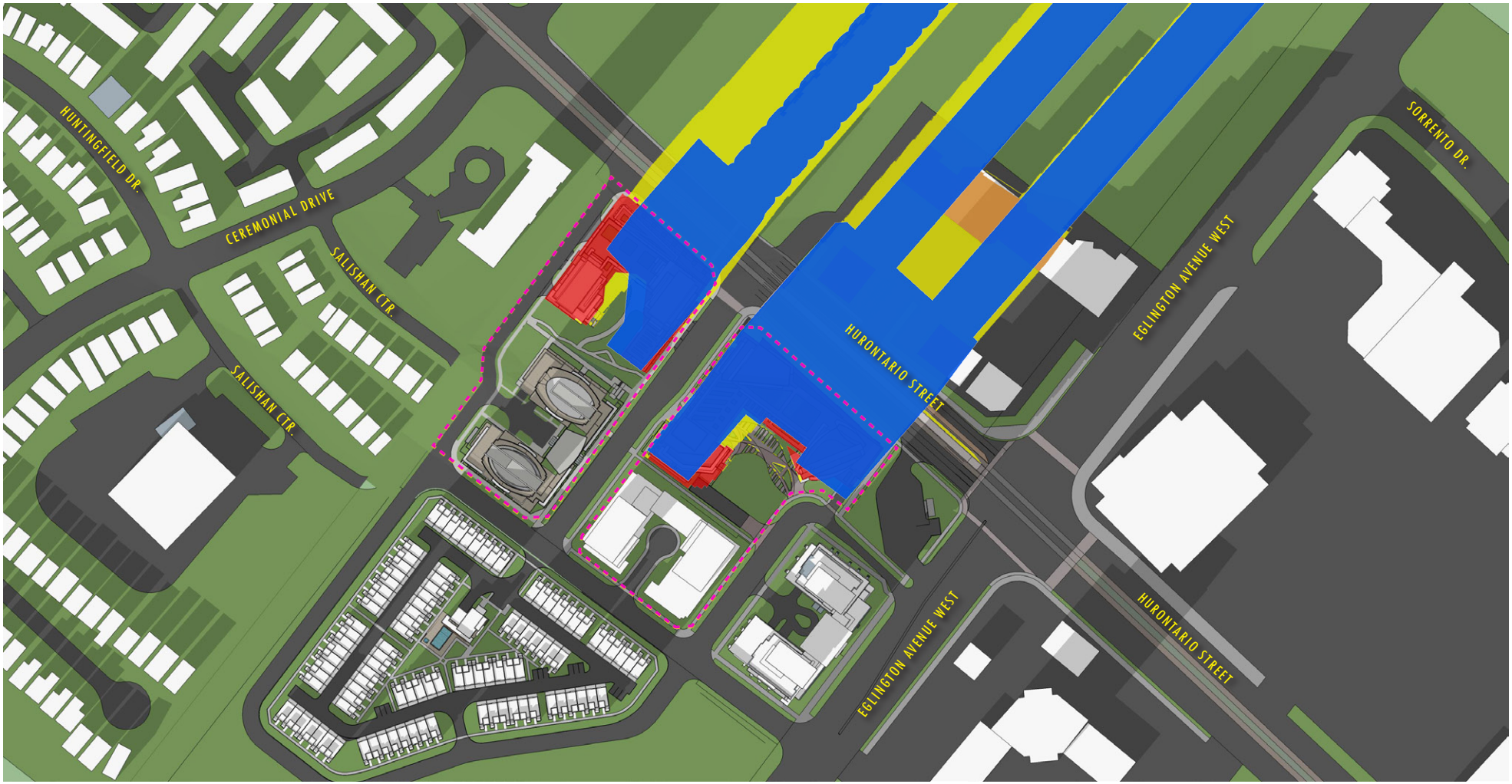

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