

BONUS + ASSOCIATES

ARCHITECTURE INTERIORS URBAN DESIGN

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EXECUTIVE SUMMARY 5 **URBAN DESIGN STUDY** SITE 1 LANE COVE LEP 2009 2 21 THE VISION: URBAN DESIGN PRINCIPLES + VIEWS - OPTION A 2 27 THE VISION: URBAN DESIGN PRINCIPLES + VIEWS - PREFERRED OPTION B 3 SHADOW ANALYSIS 71 77 5 **AMENITY**

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EXECUTIVE SUMMARY



EXECUTIVE SUMMARY

This urban design study has been prepared for Epic Doncaster Pty Ltd to inform a Planning Proposal for land at 166 Epping Road Lane Cove. The land is an elevated site located on the eastern shore of the Lane Cove River, between the river and Epping Road. Adjoining land uses include Environmental Conservation, Light Industry and High Density Residential.

The principles that have informed the urban design include the following:

- **Topography**; respond to the site topography which slopes to the west from roadway to river bank and to the north from ridgeline to bridge.
- **Environmental land**; recognise the sensitive nature and proximity of national parkland, environmental conservation land and the river.
- **Land dedication**; identify opportunities to connect environmental land along the route of established walking tracks by land dedication to enhance the public domain.
- **APZ**; provide an asset protection zone to the perimeter of the site to protect buildings, property and occupants from the risk of bush fire.
- **Employment base**; retain employment land uses currently on site by provision of three levels of commercial floor space at the base of the building envelope.
- **Permeability**; erode the employment base with north/south courtyards and east/west walkways to provide a visual and physical connection to the river.
- **Street wall building**; provide a low rise street wall of residential uses to the roadway to define the street edge and shelter open spaces visually and acoustically from the roadway.
- **Tower separation**; provide residential land uses via slender towers orientated perpendicular to the roadway and river for permeability to provide view corridors and residential amenity.
- **Graduated height plane**; respond to the site topography by providing a range of building heights grading down from a maximum at the ridge to a minimum at the riverbank.
- **Amenity**; enhance residential amenity by providing access to sunlight, breezes, natural ventilation and views of the environmental context for all occupants.

Two options have been identified for further analysis.

Option A consists of an employment base of commercial uses, 3 storeys in height and highly articulated in plan, with 3 residential towers above. The residential towers have relatively small floor plates, are irregular in plan and separated from each other by 24 m in accordance with ADG 2F. The residential towers proposed are lower than the adjoining Arise apartment tower in response to the site topography. The overall tower heights proposed also graduate in height from 20, to 13 and 8 storeys respectively above the commercial base.

Option B consists of an employment base of commercial uses, 3 storeys in height and highly articulated in section, with 2 residential towers above. The residential towers have relatively larger floor plates containing a maximum of 750 sq m of GFA, are irregular in plan and separated from each other and Arise by the maximum distance possible, and more than required by ADG 2F. The residential towers proposed are lower than the adjoining Arise apartment tower in response to the site topography. The overall tower heights proposed also graduate in height from 20 to 14 storeys respectively above the commercial base.

Option B is the preferred option as option B provides:

- Superior physical and visual connection to the river and surrounding environmental lands.
- Shelter for open spaces from the roadway via a street wall building.
- Increased tower separation.
- Better resident amenity for occupants and neighbours via access to views and sunlight.

The future context of the precinct has also been considered, as suggested by the planning assessment commission (PAC) in their determination report for the mixed use development proposal 150 Epping Road Lane Cove, 14 August 2012. This planning proposal incorporates urban design principles proposed for the Stringybark Creek precinct.



AERIAL VIEW FROM SOUTH



EXECUTIVE SUMMARY

URBAN DESIGN STUDY & CONCEPT DESIGN



OPTION A

Residential		m2	Levels	Floor Plate	GFA	Commercial	Floor Plate	GFA
South Tower	L3-19	774	20	15480	12900.00	GF	3541	3363.95
Street wall building	L3-14	873	13	11349	9457.50	L1	3541	3363.95
North Tower	L3-10	724	8	5792	4826.67	L2	3541	3363.95
TOTAL				32621	27184.17		10623	10091.85
Cia-	0120	2		FSR:	2.98 :1		FSR	1.11 :1
Site	9128	m2						
							TOTAL FSR	4.08 :1

OPTION A



PREFERRED OPTION B

Residential		m2	Levels	Floor Plate	GFA		Commercial	Floor Plate	GFA
South Tower	L3-22	900	20	18000	15000.00		GF	3815	3624.25
Street wall building	L3-6	645	4	2580	2150.00		L1	3215	3054.25
North Tower	L3-16	900	14	12600	10500.00		L2	3215	3054.25
TOTAL				33180	27650.00			10245	9732.75
				FSR	3.03	:1		FSR	1.07 :1
Site	9128	m2							
								TOTAL FSR	4.10 :1
								IOTAL FSK	4.10 :1

OPTION B SCHEDULE

EXECUTIVE SUMMARY

URBAN DESIGN STUDY & CONCEPT DESIGN



URBAN DESIGN STUDY **SITE**

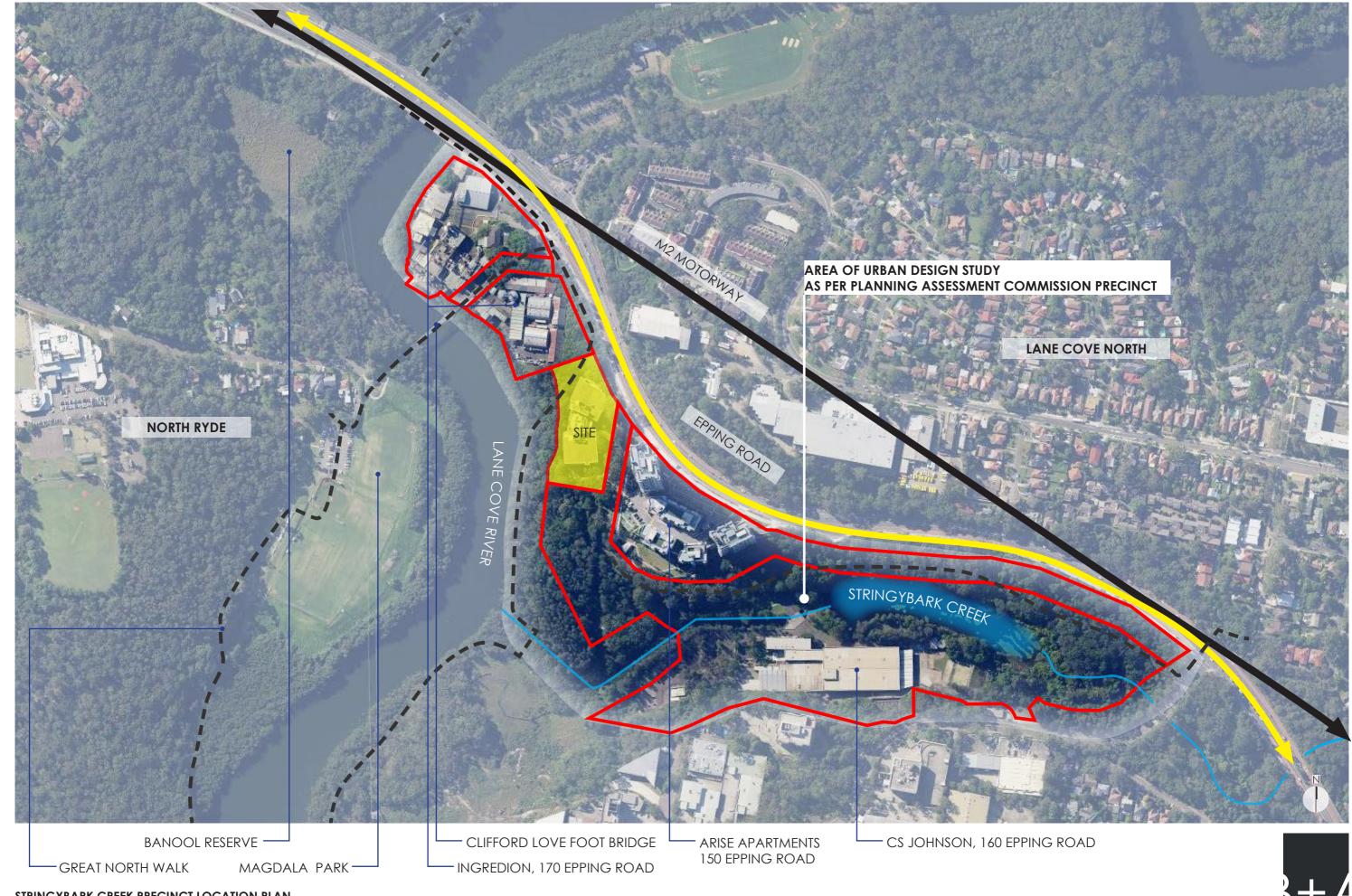




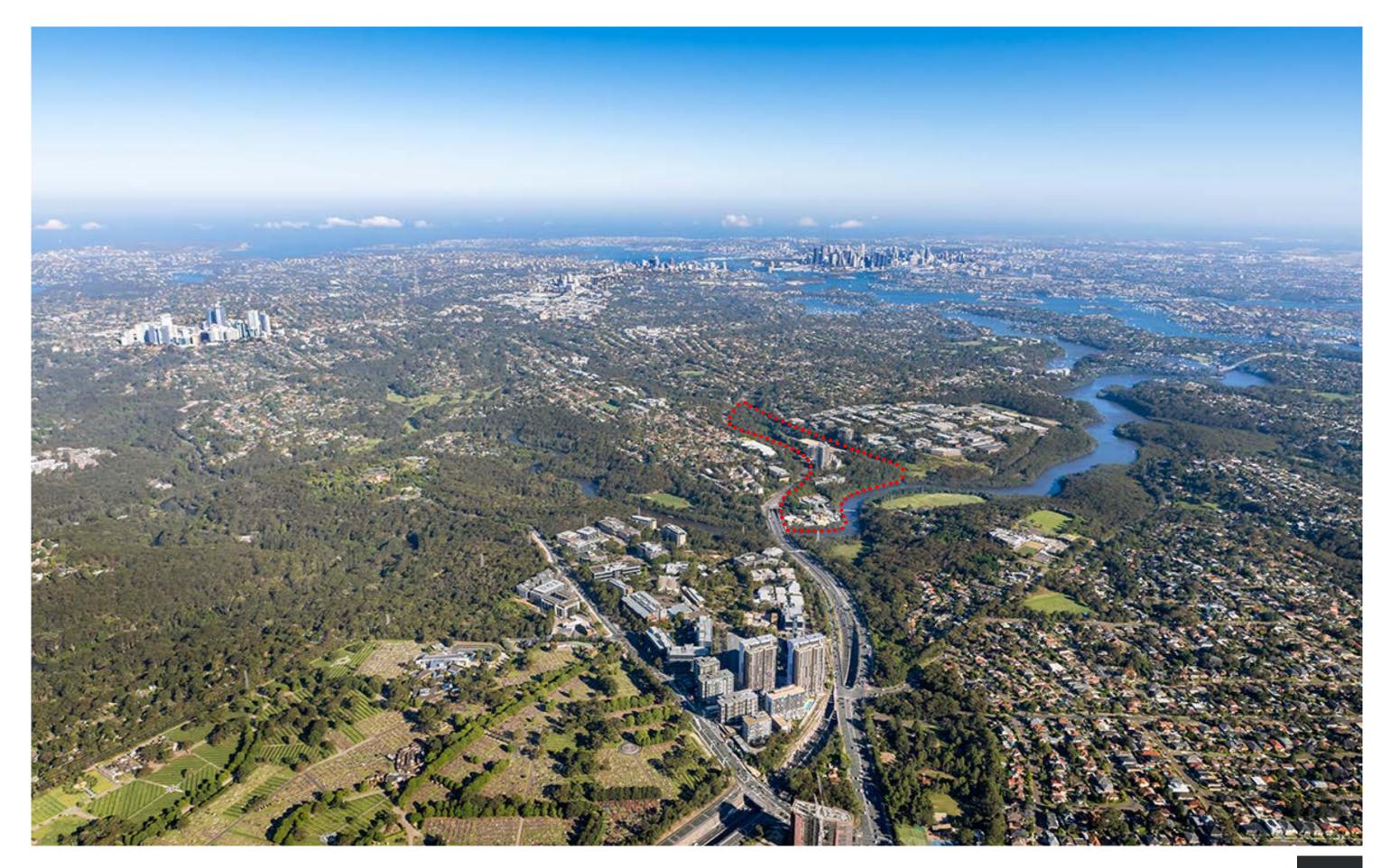


AREA OF STUDY

SITE



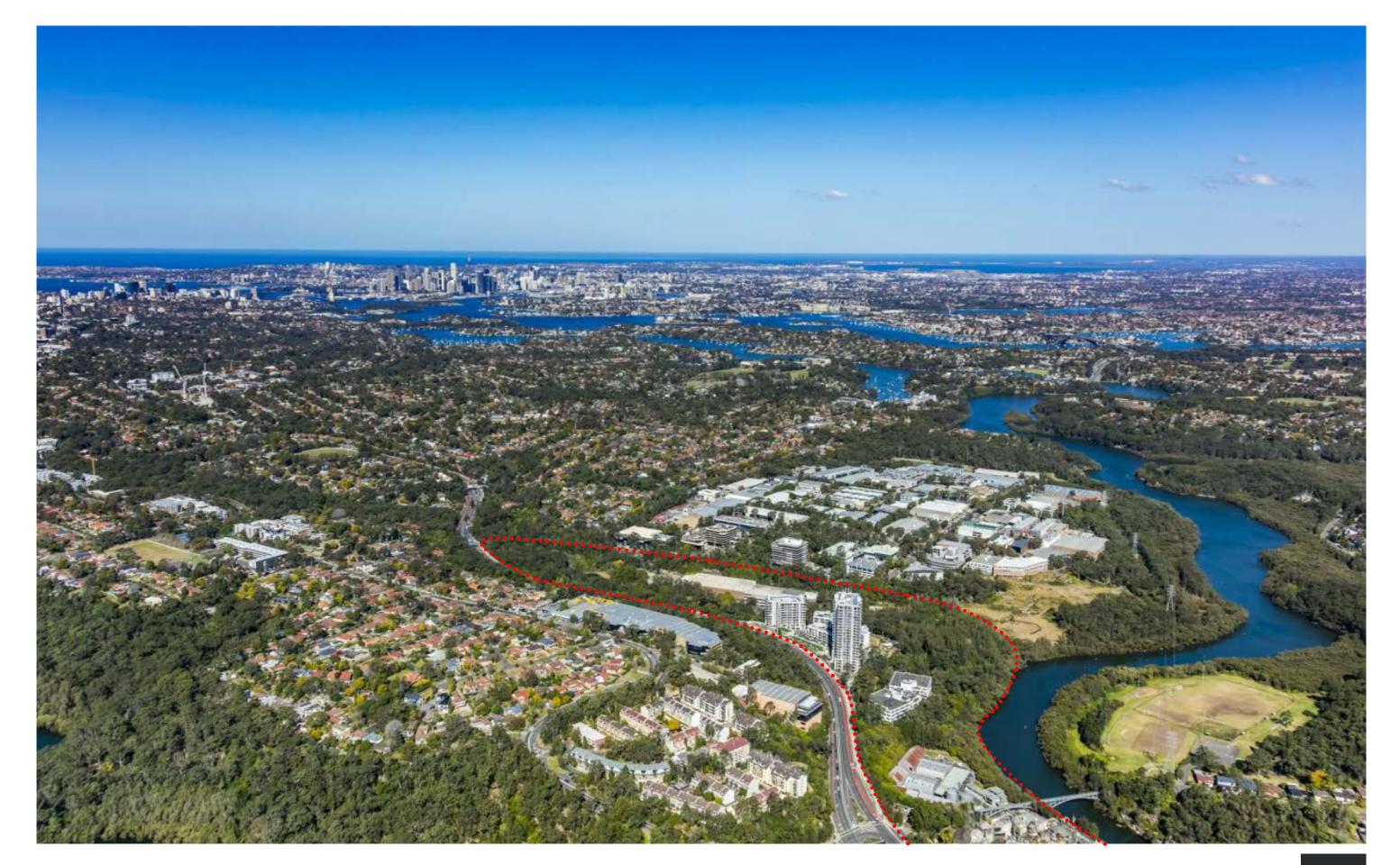
STRINGYBARK CREEK PRECINCT LOCATION PLAN SITE





AERIAL PHOTOGRAPH FROM NORTH

SITE





AERIAL PHOTOGRAPH OF EPPING ROAD

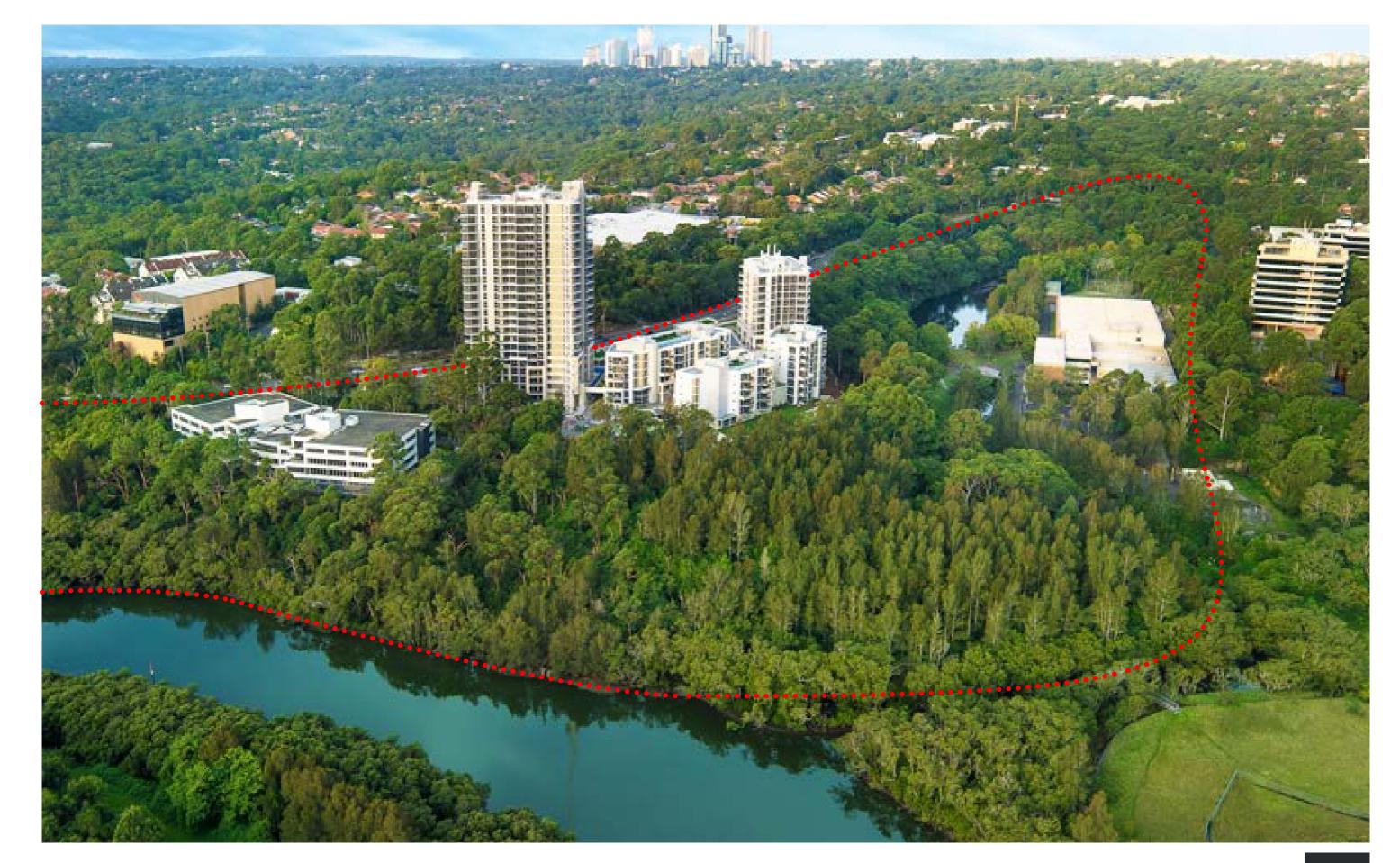
SITE





AERIAL PHOTOGRAPH OF THE INGREDION SITE

SITE





AERIAL PHOTOGRAPH FROM THE WEST

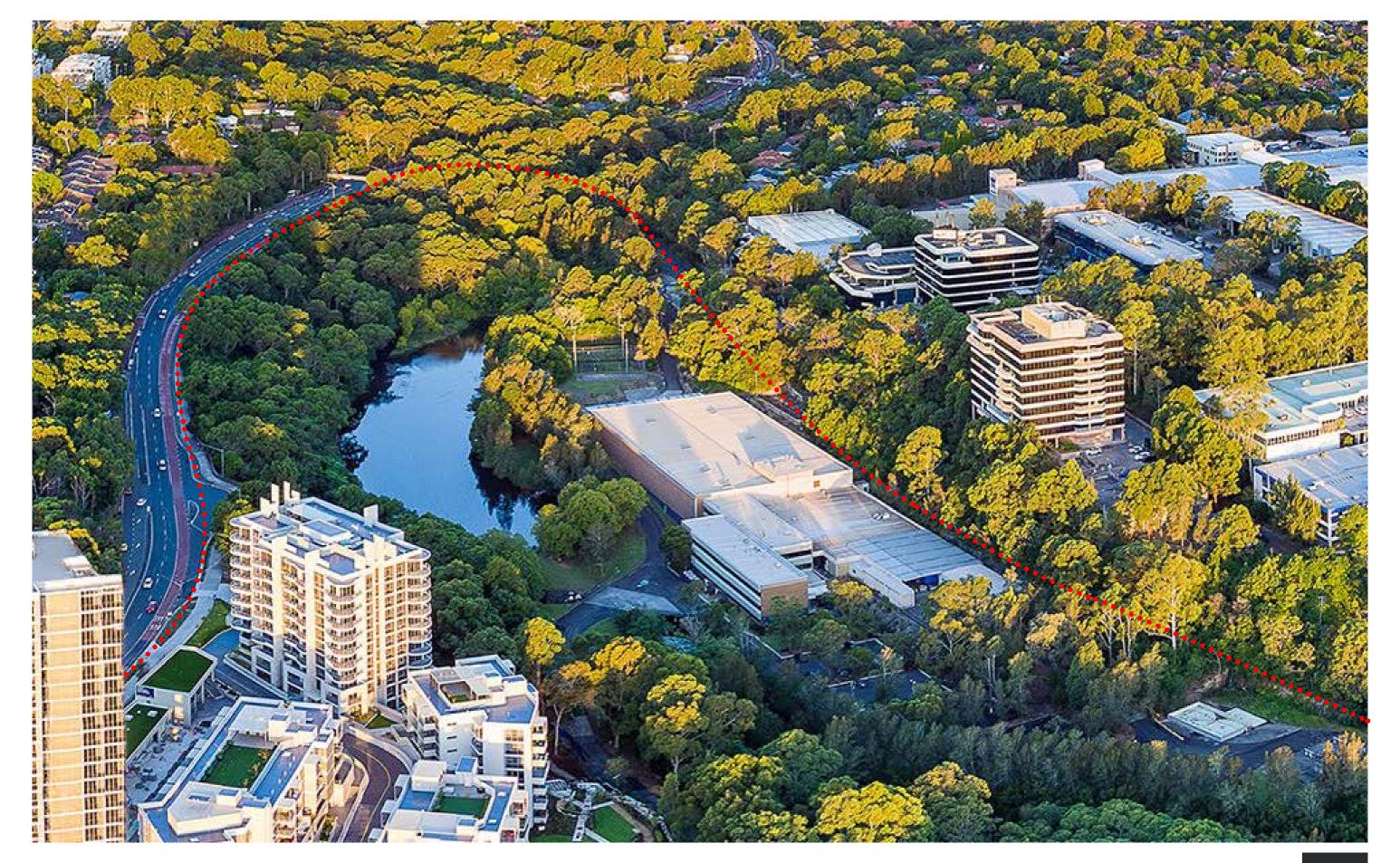
SITE





AERIAL PHOTOGRAPH OF THE MAGDALA RESERVE, THE CLIFFORD LOVE BRIDGE AND THE GREAT NORTH WALK

SITE







AERIAL PANORAMA

SITE

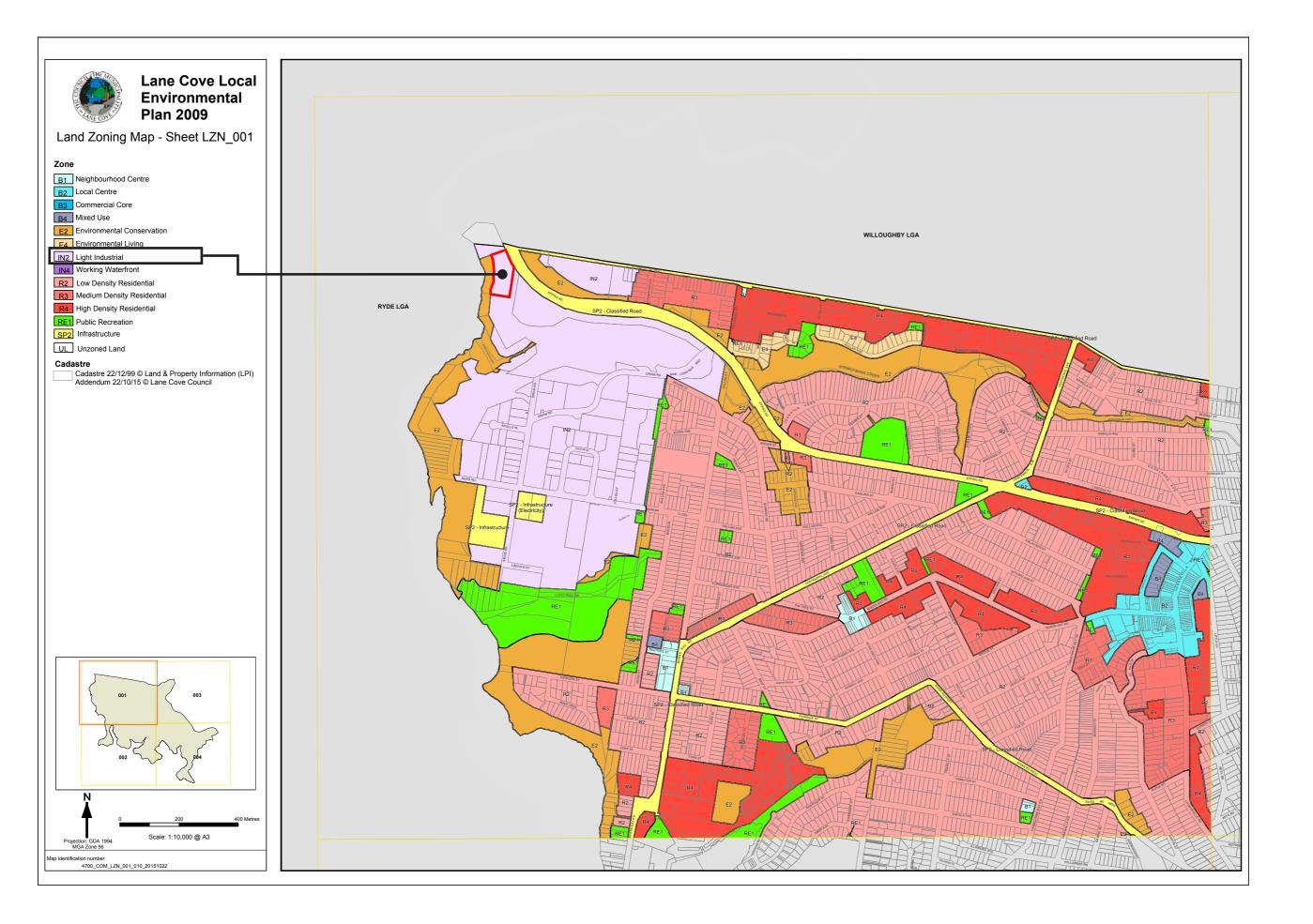


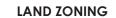
AERIAL PANORAMA

SITE

URBAN DESIGN STUDY LANE COVE LEP 2009



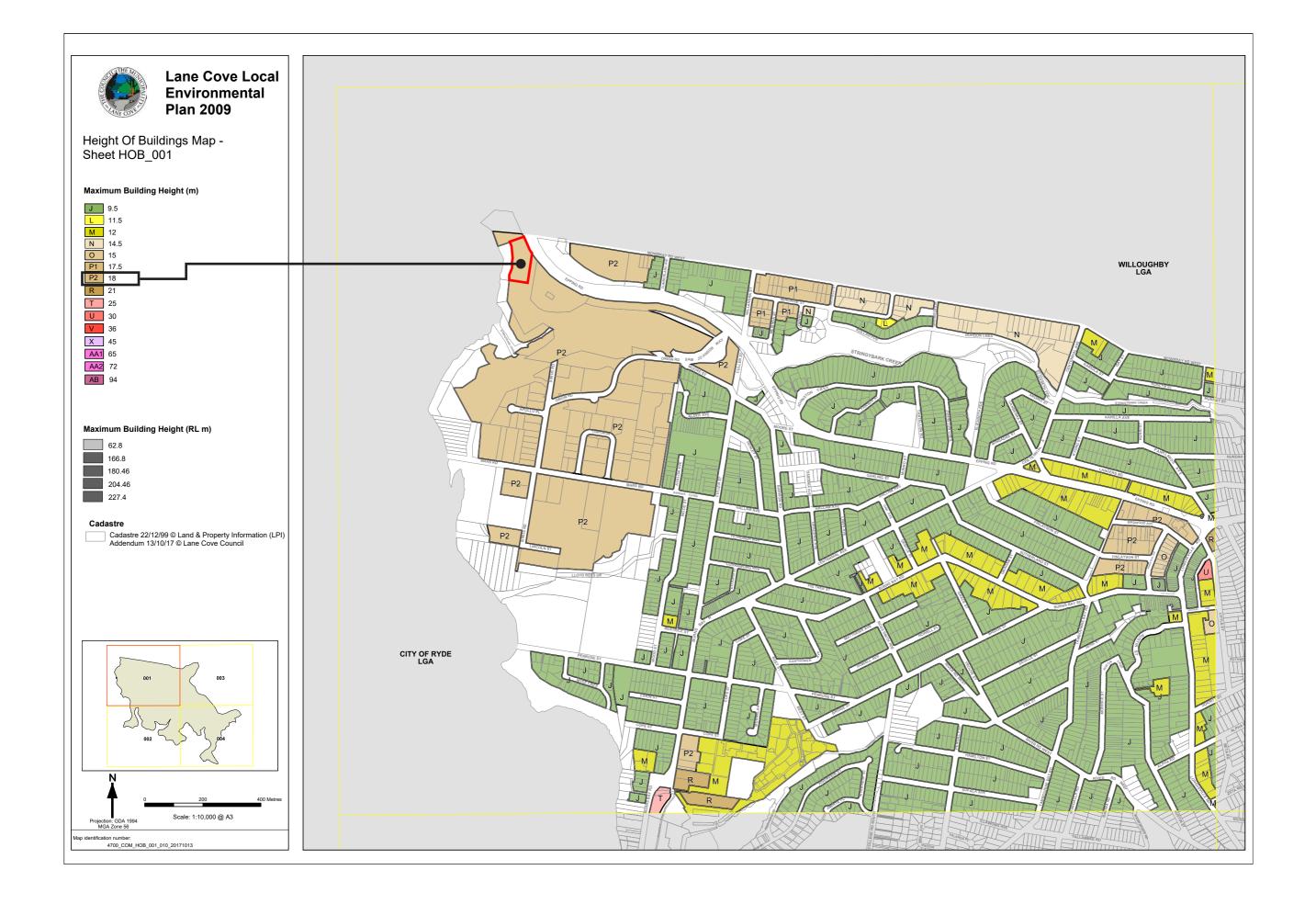




LANE COVE LEP 2009



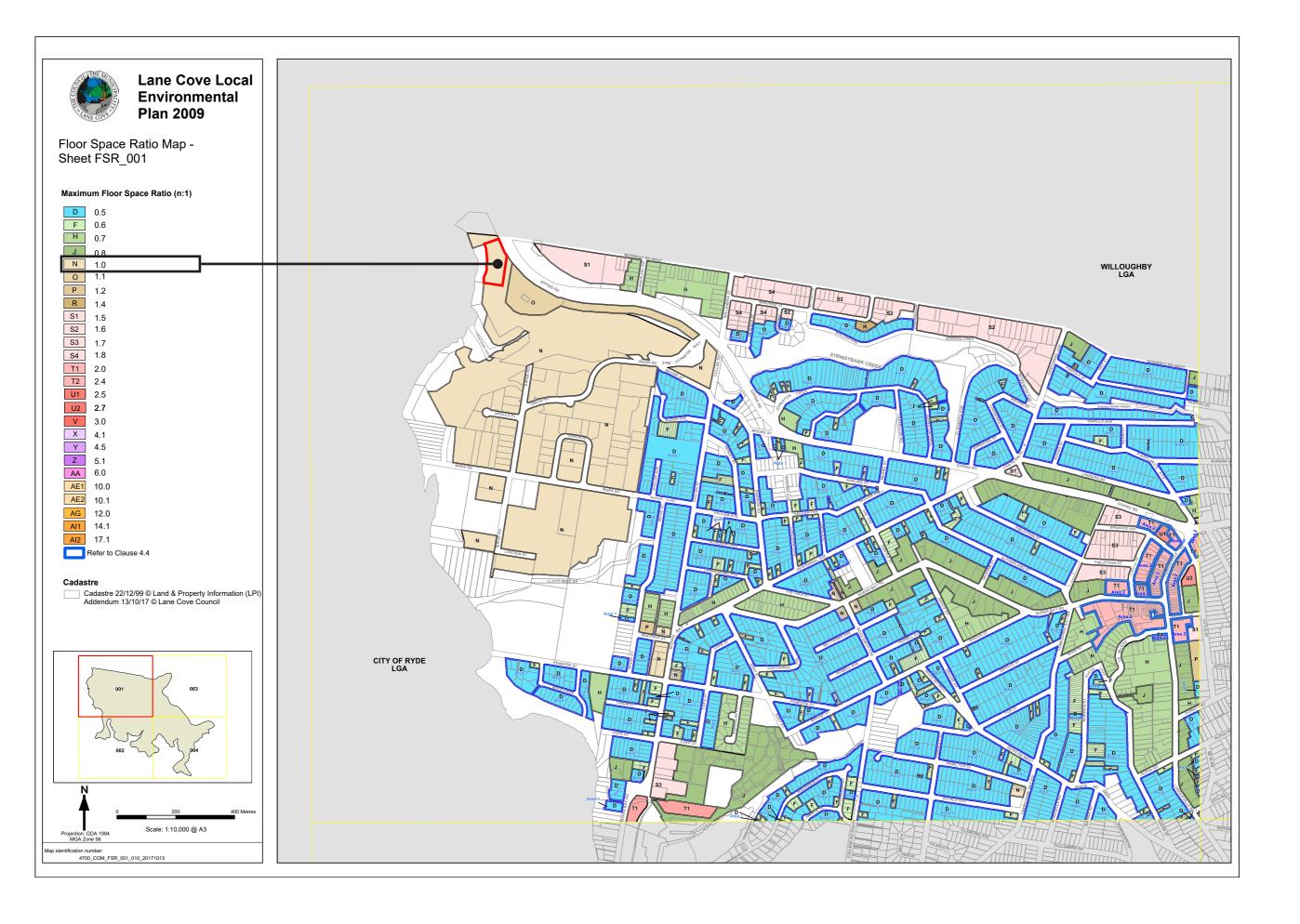
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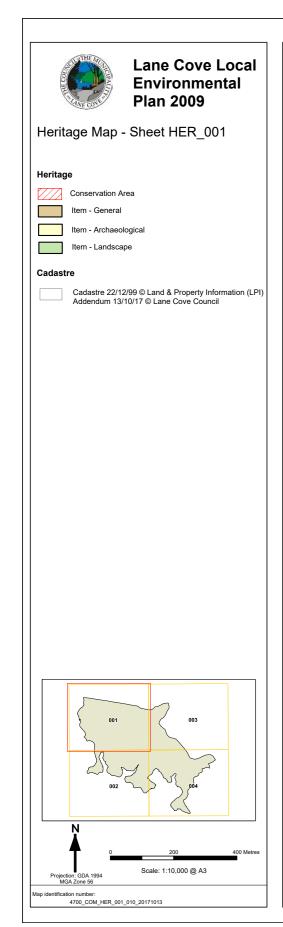
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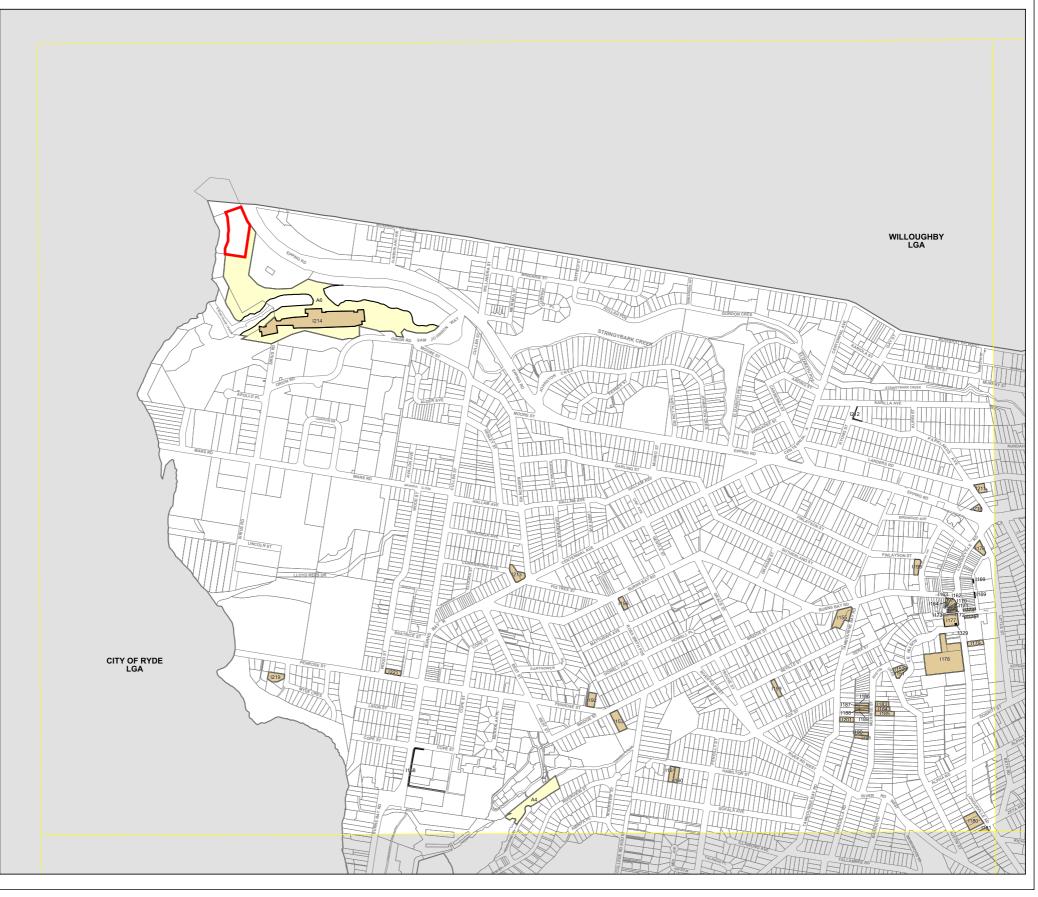
LANE COVE LEP 2009





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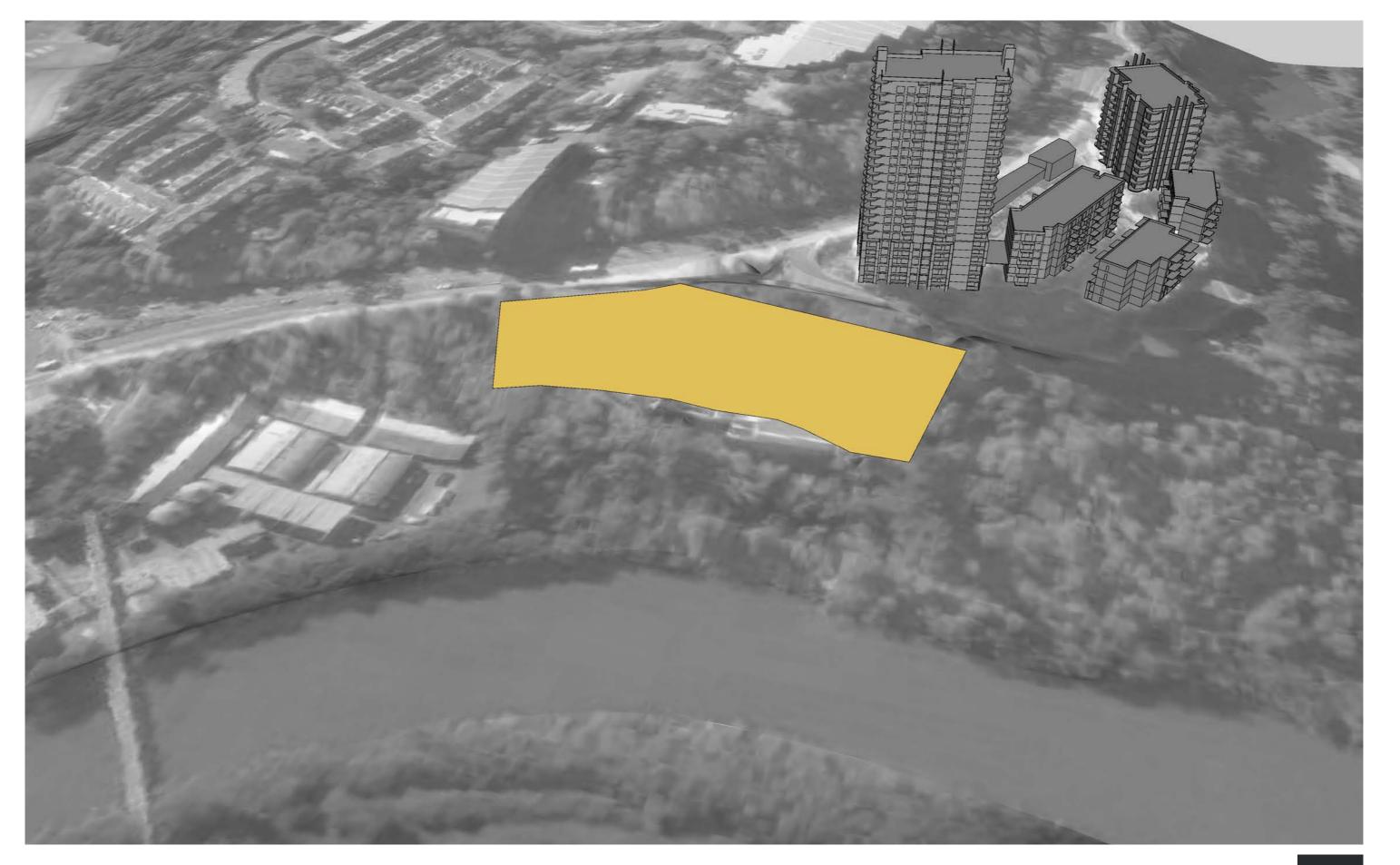
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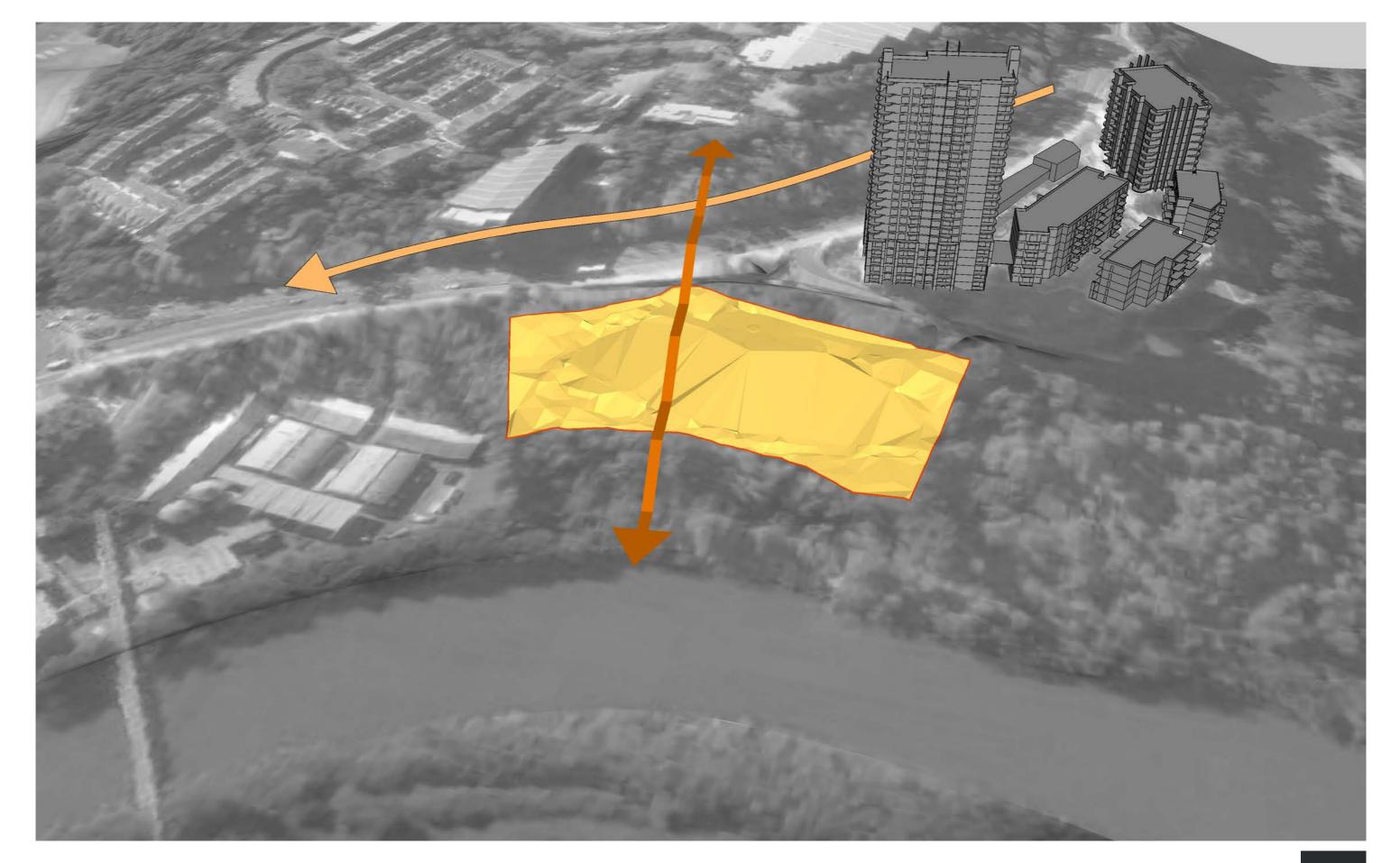
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URBAN DESIGN STUDY THE VISION: URBAN DESIGN PRINCIPLES + VIEWS - OPTION A



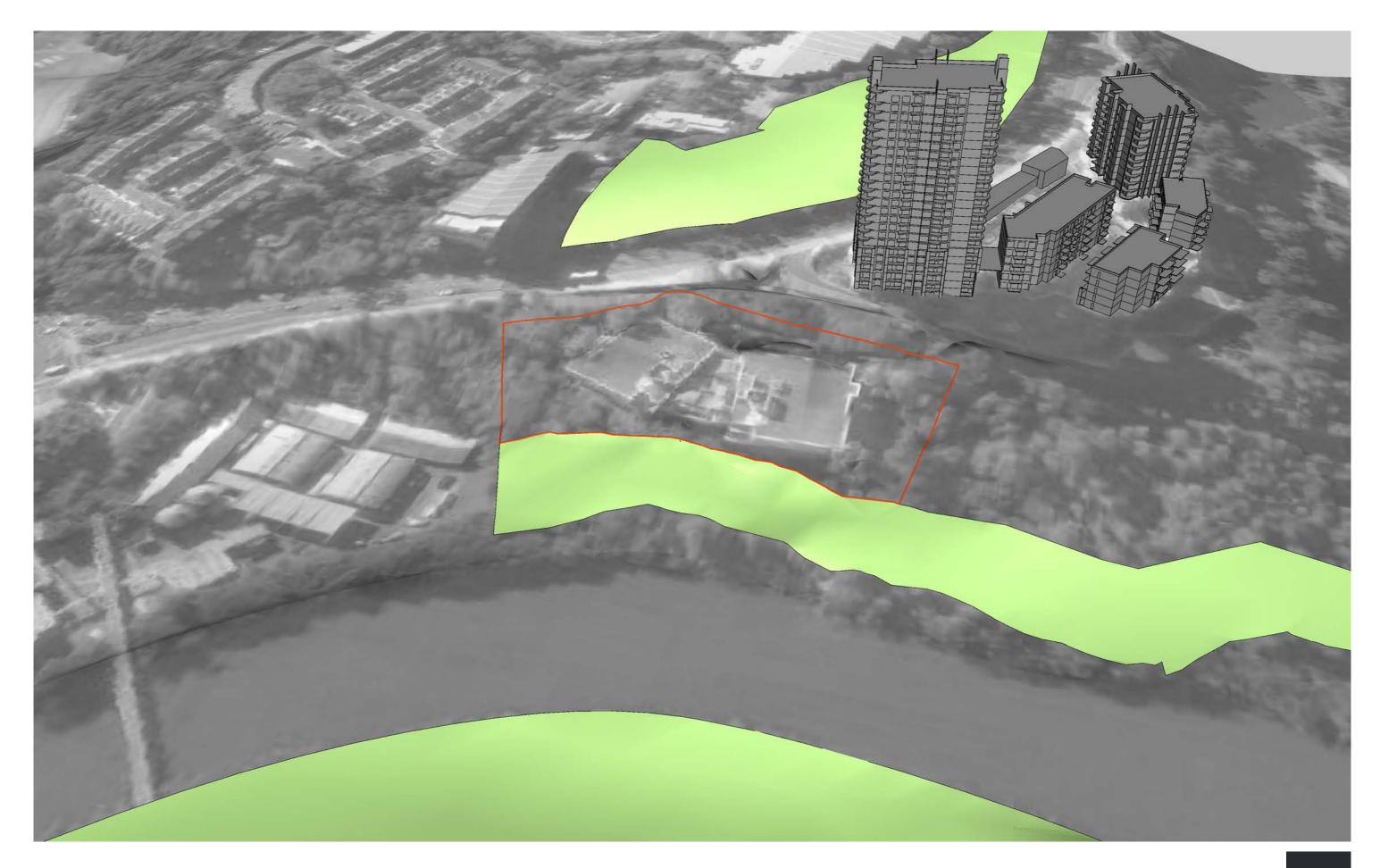




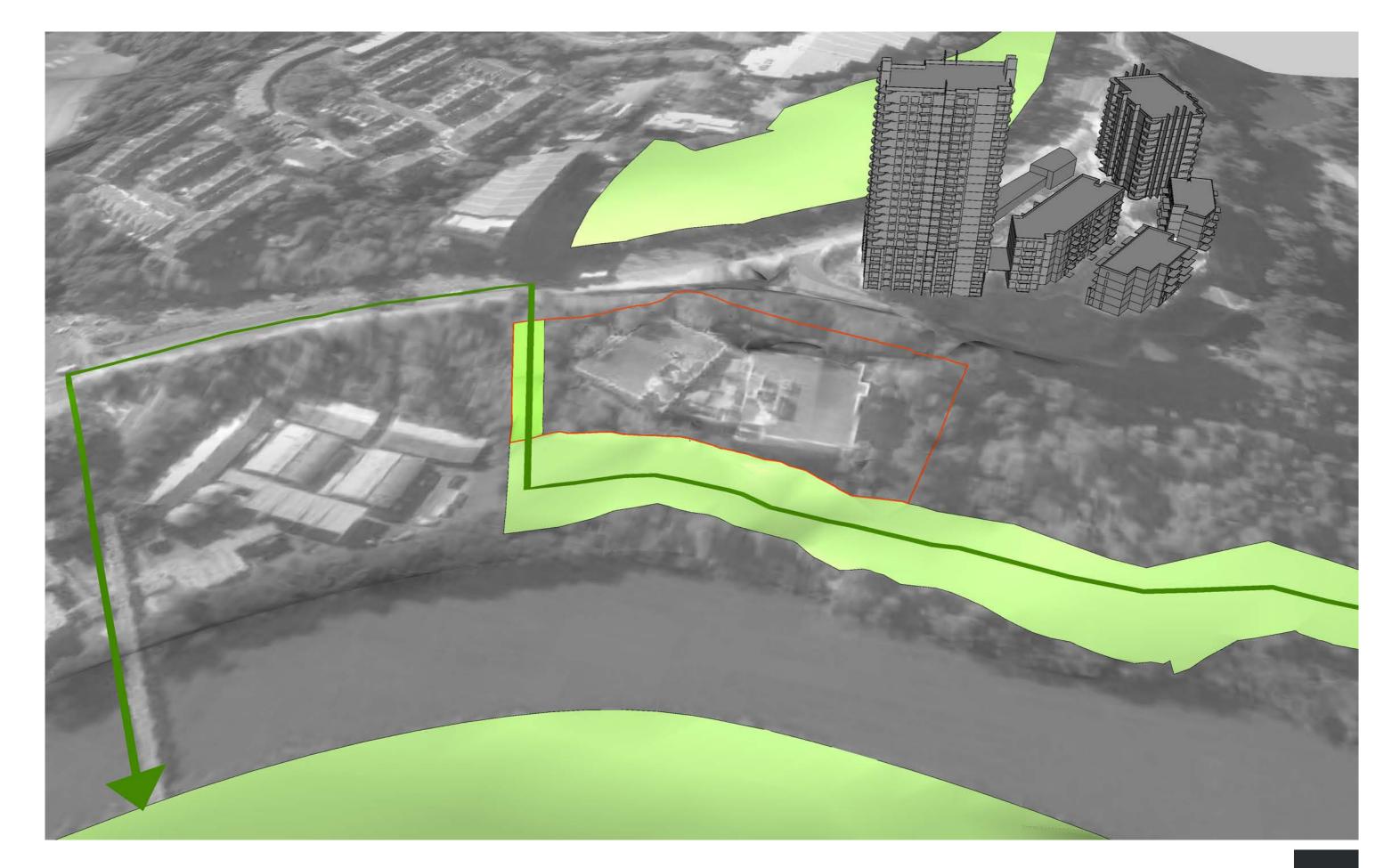




TOPOGRAPHY



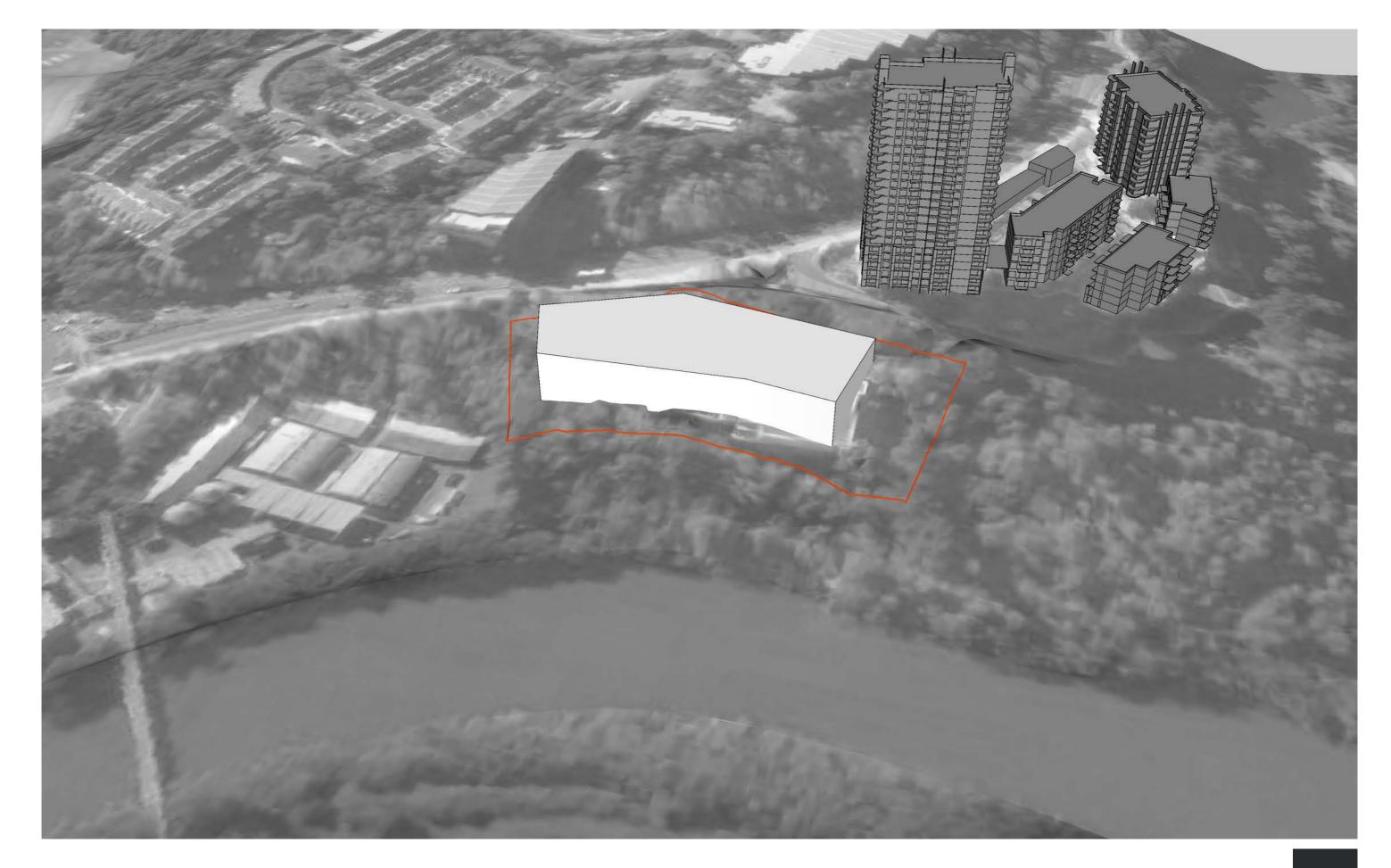




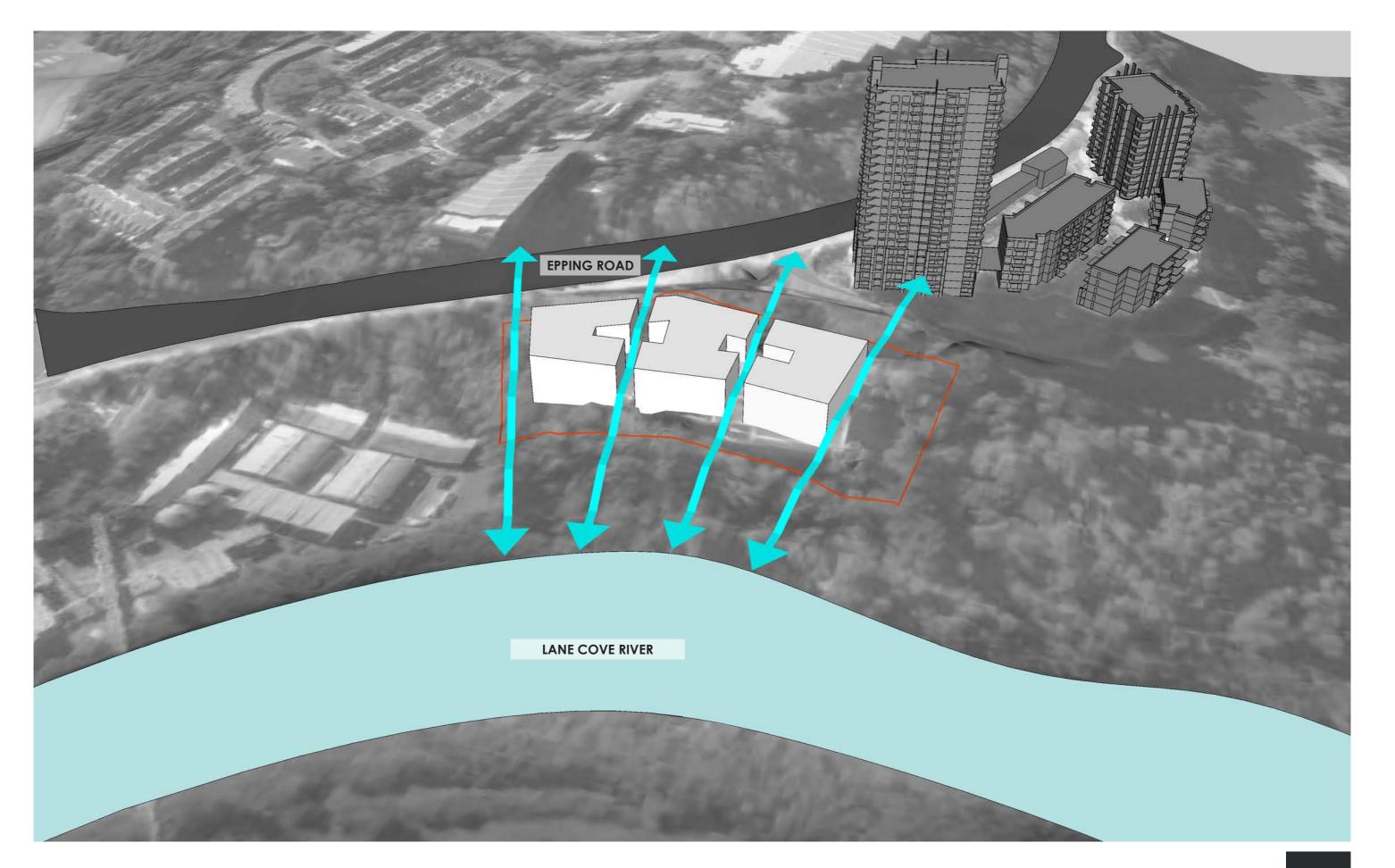






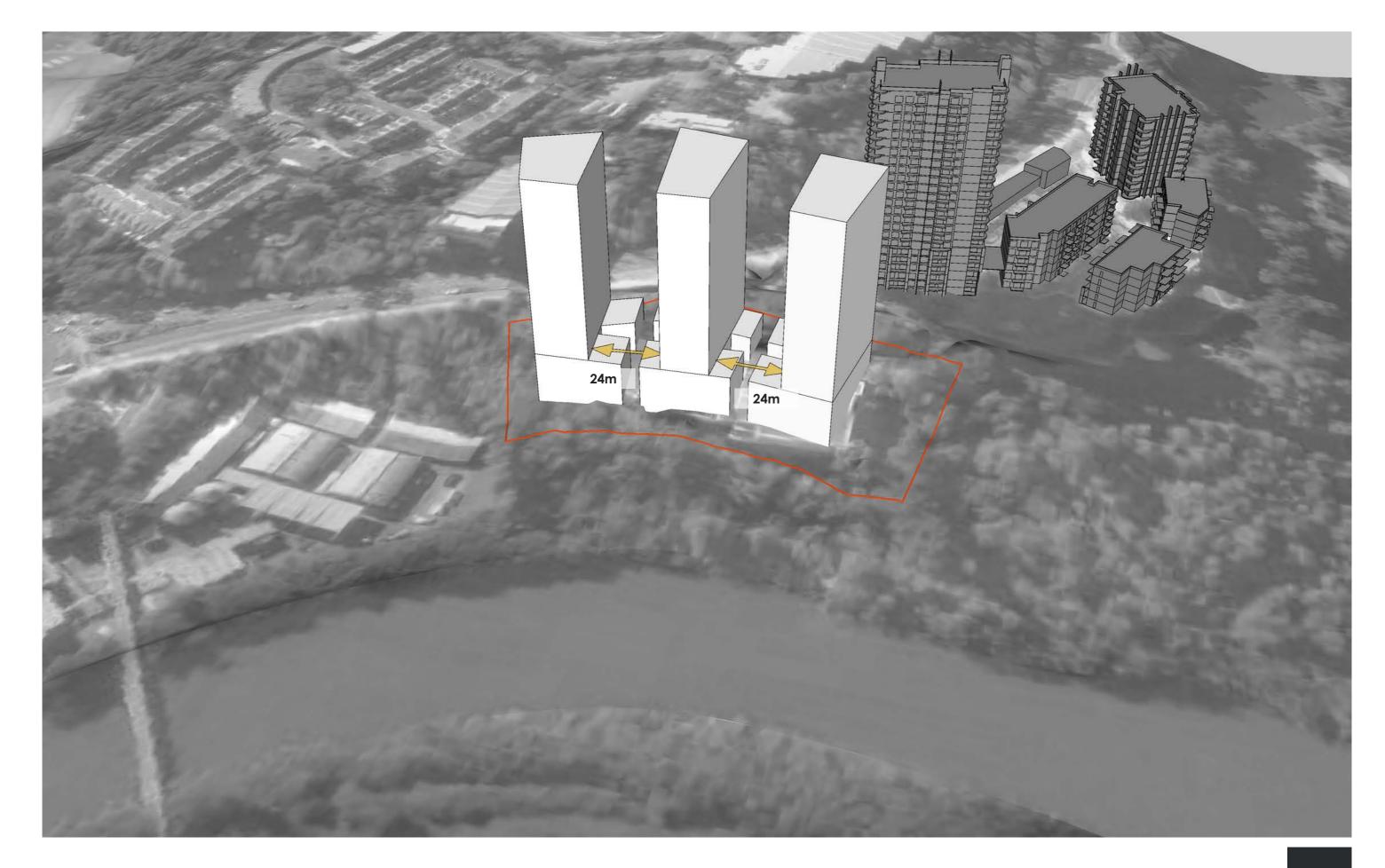






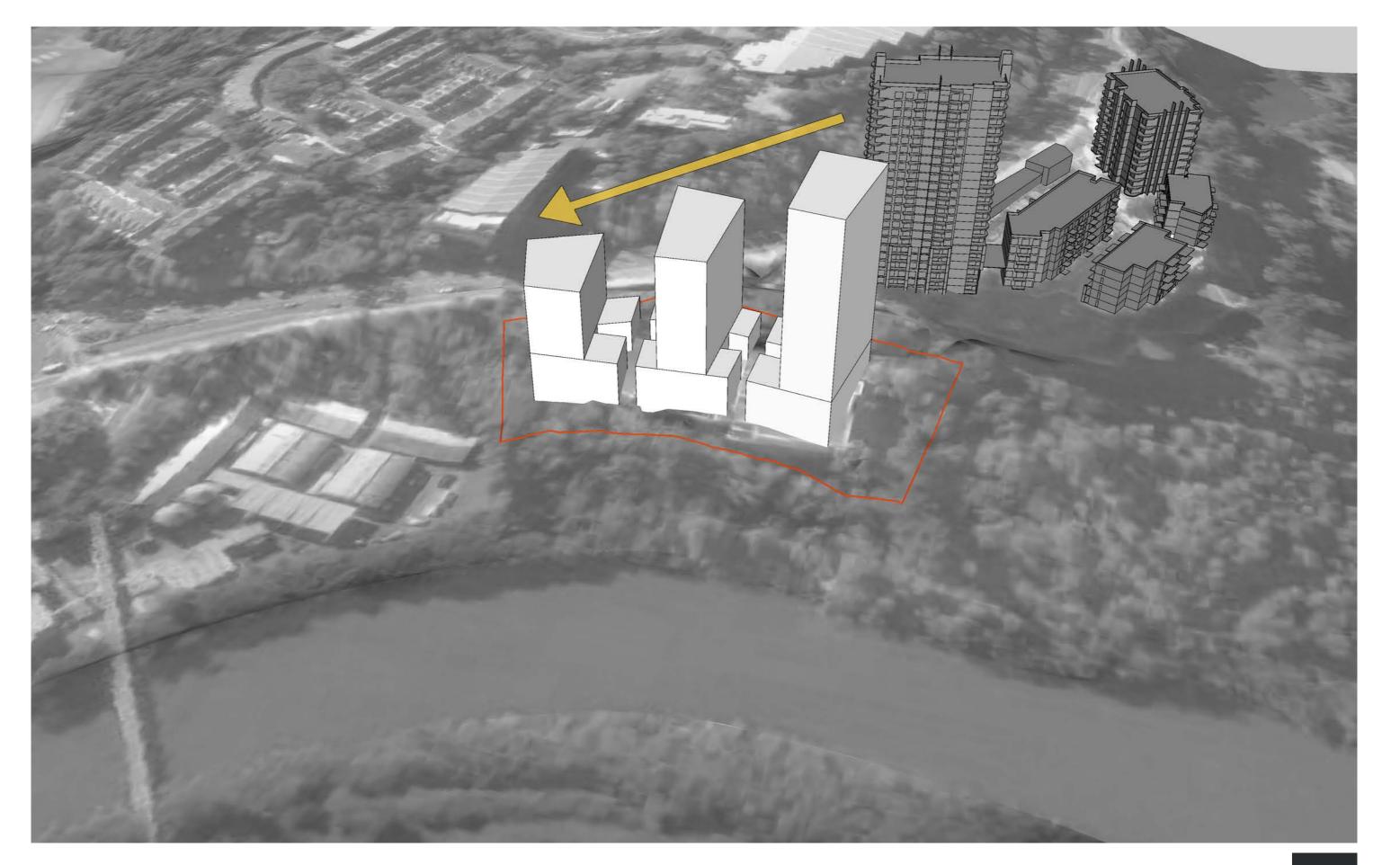




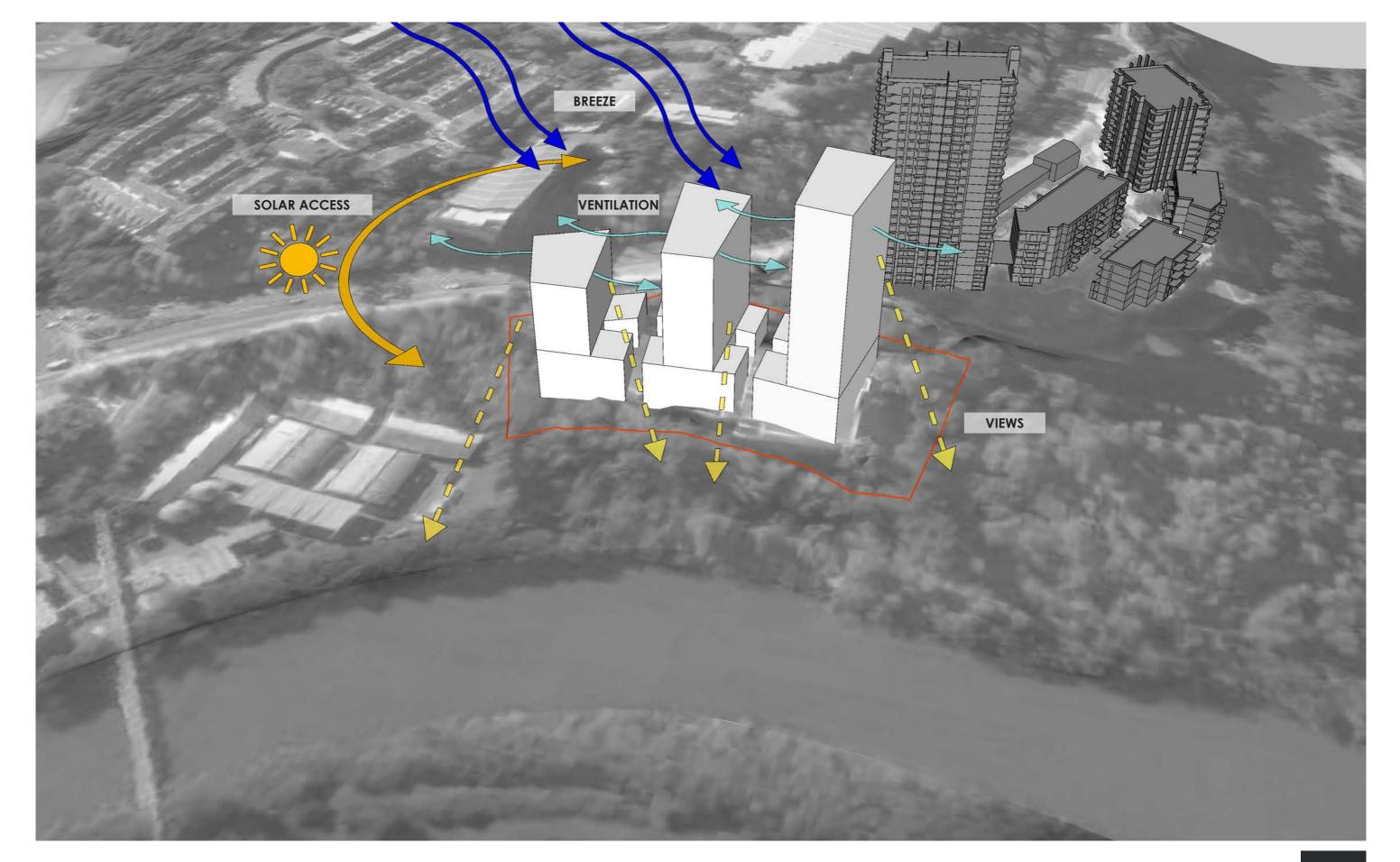




TOWER SEPARATION









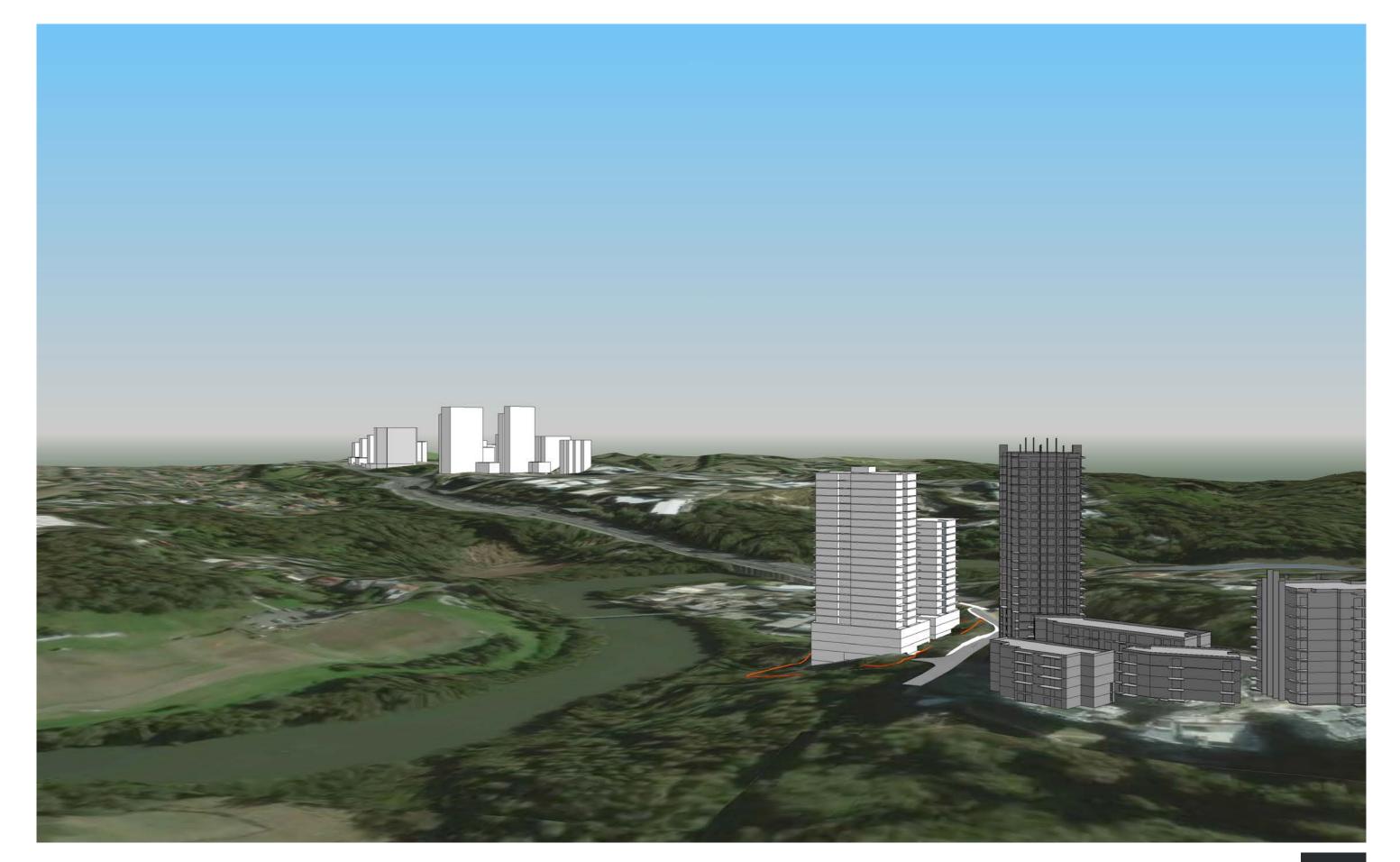
AMENITY

THE VISION: URBAN DESIGN PRINCIPLES - OPTION A





THE VISION: URBAN DESIGN PRINCIPLES - OPTION A





VIEWS - OPTION A





EASTERN VIEW FROM EPPING ROAD

VIEWS - OPTION A

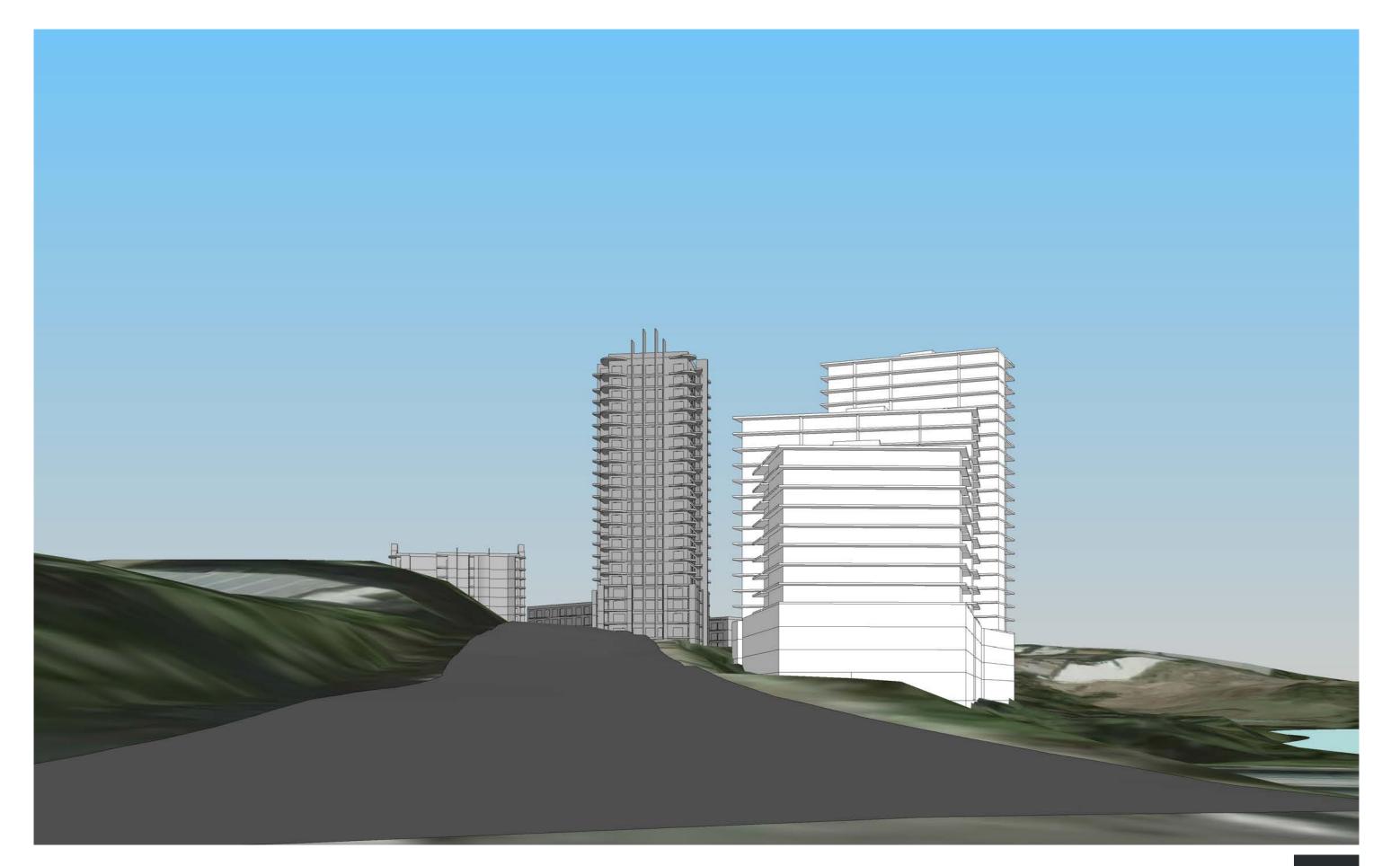
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EASTERN VIEW FROM EPPING ROAD

VIEWS - OPTION A

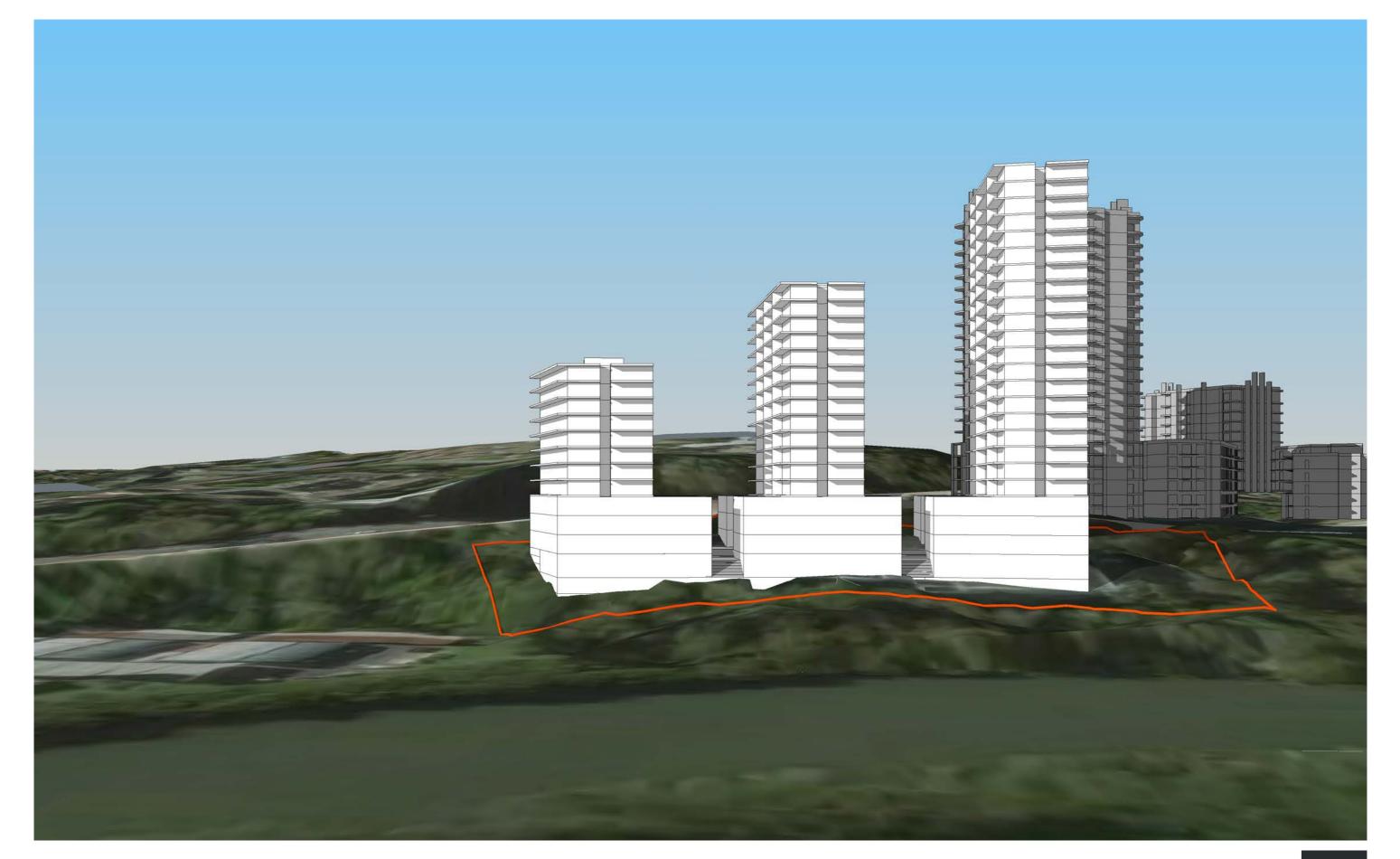




NORTHERN VIEW FROM EPPING ROAD

VIEWS - OPTION A

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VIEW FROM MAGDALA PARK

VIEWS - OPTION A





SOUTHERN VIEW FROM THE LANE COVE RIVER

VIEWS - OPTION A





NORTHERN VIEW TOWARDS THE LANE COVE RIVER

VIEWS - OPTION A

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VIEW FROM THE CLIFFORD LOVE FOOTBRIDGE

VIEWS - OPTION A

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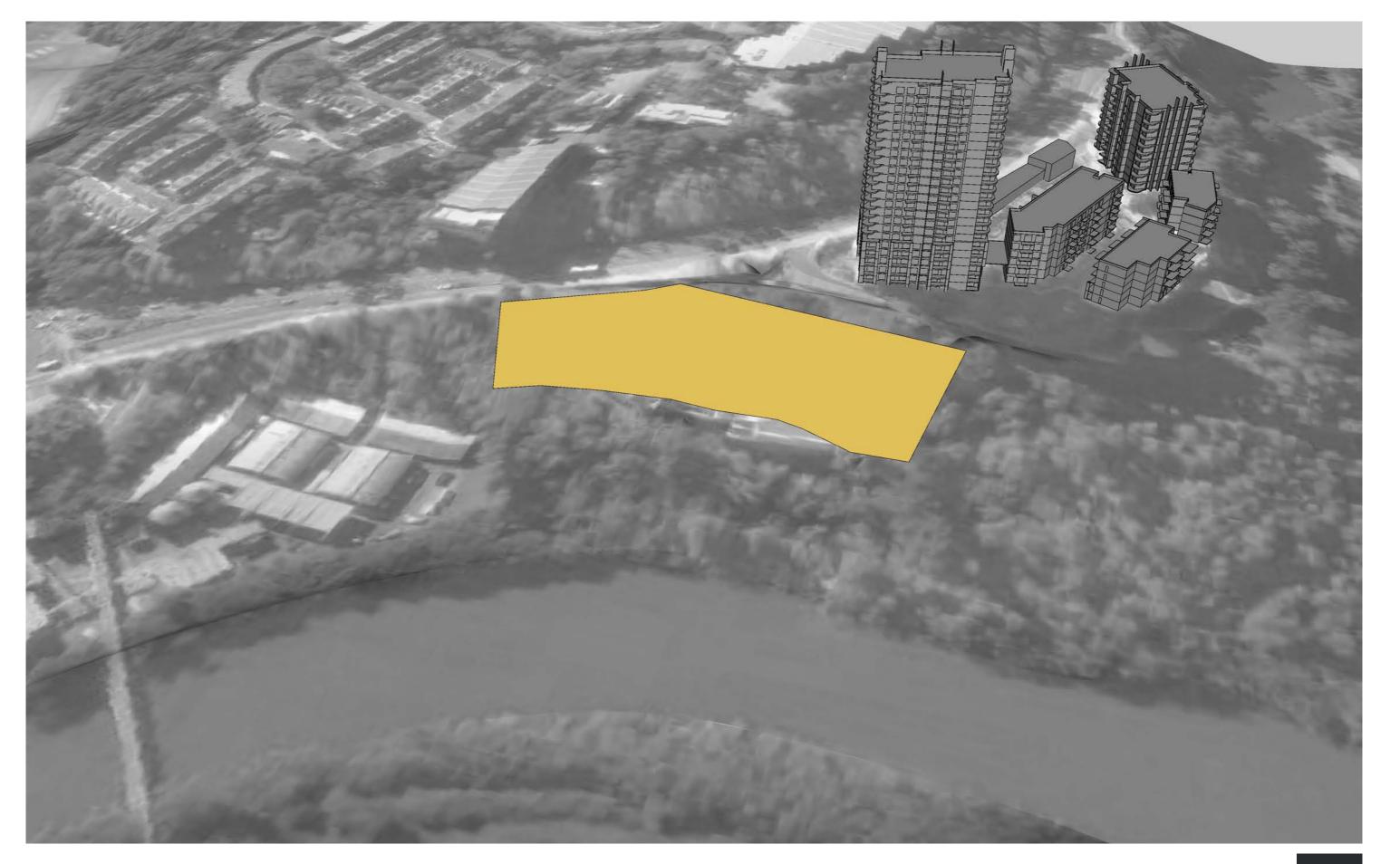


VIEW FROM MAGDALA PARK

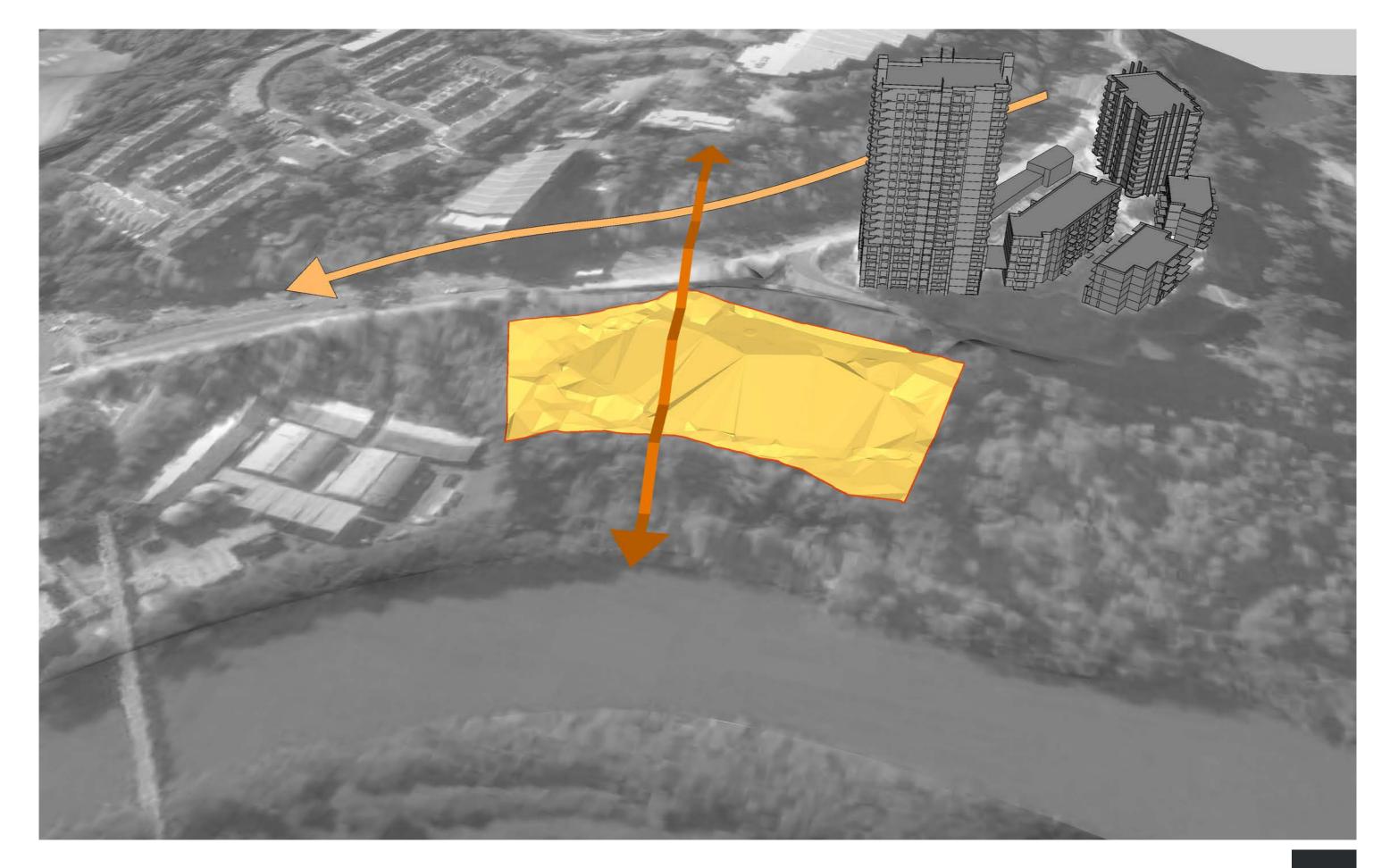
VIEWS - OPTION A

URBAN DESIGN STUDY THE VISION: URBAN DESIGN PRINCIPLES + VIEWS - PREFERRED OPTION B

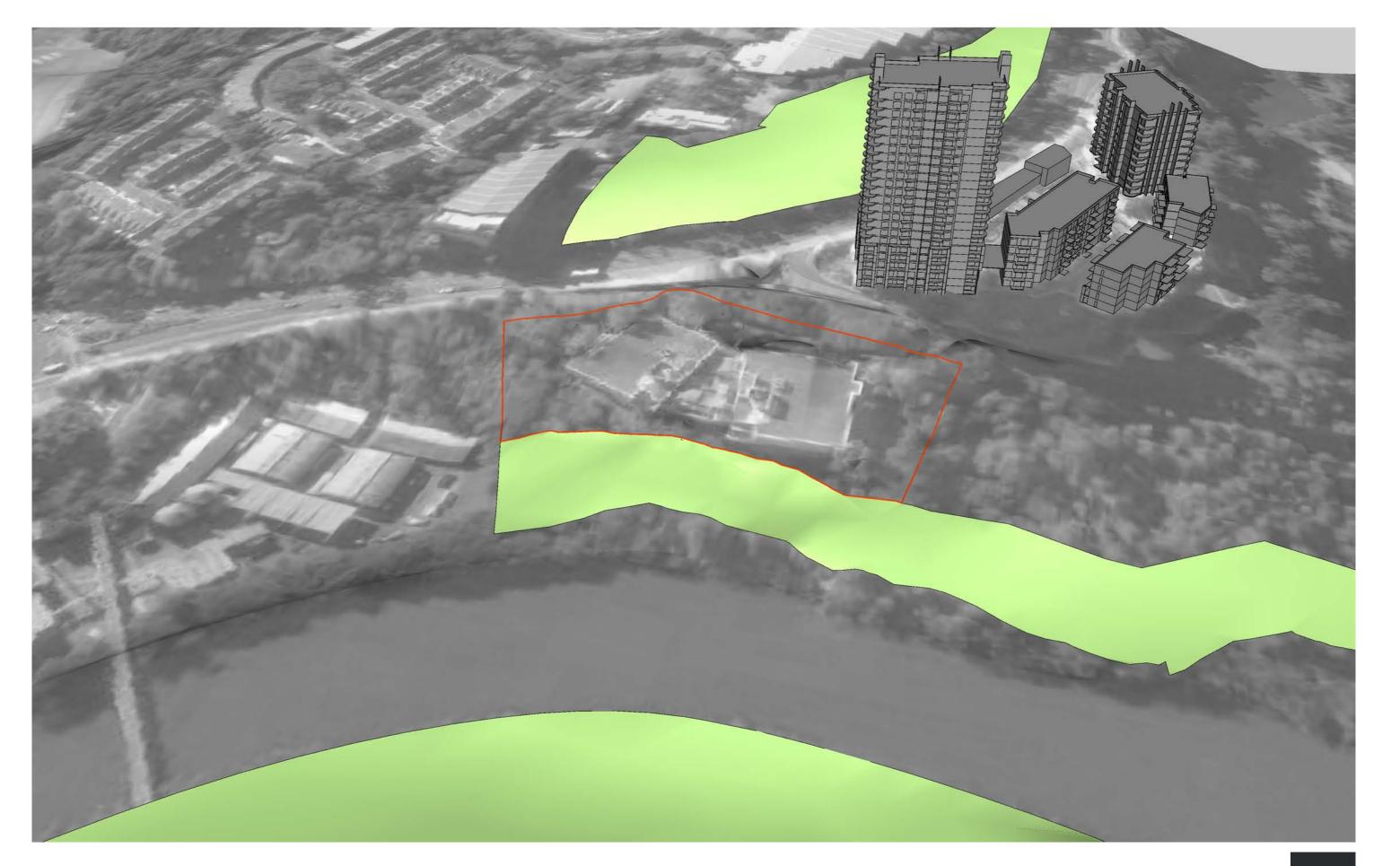






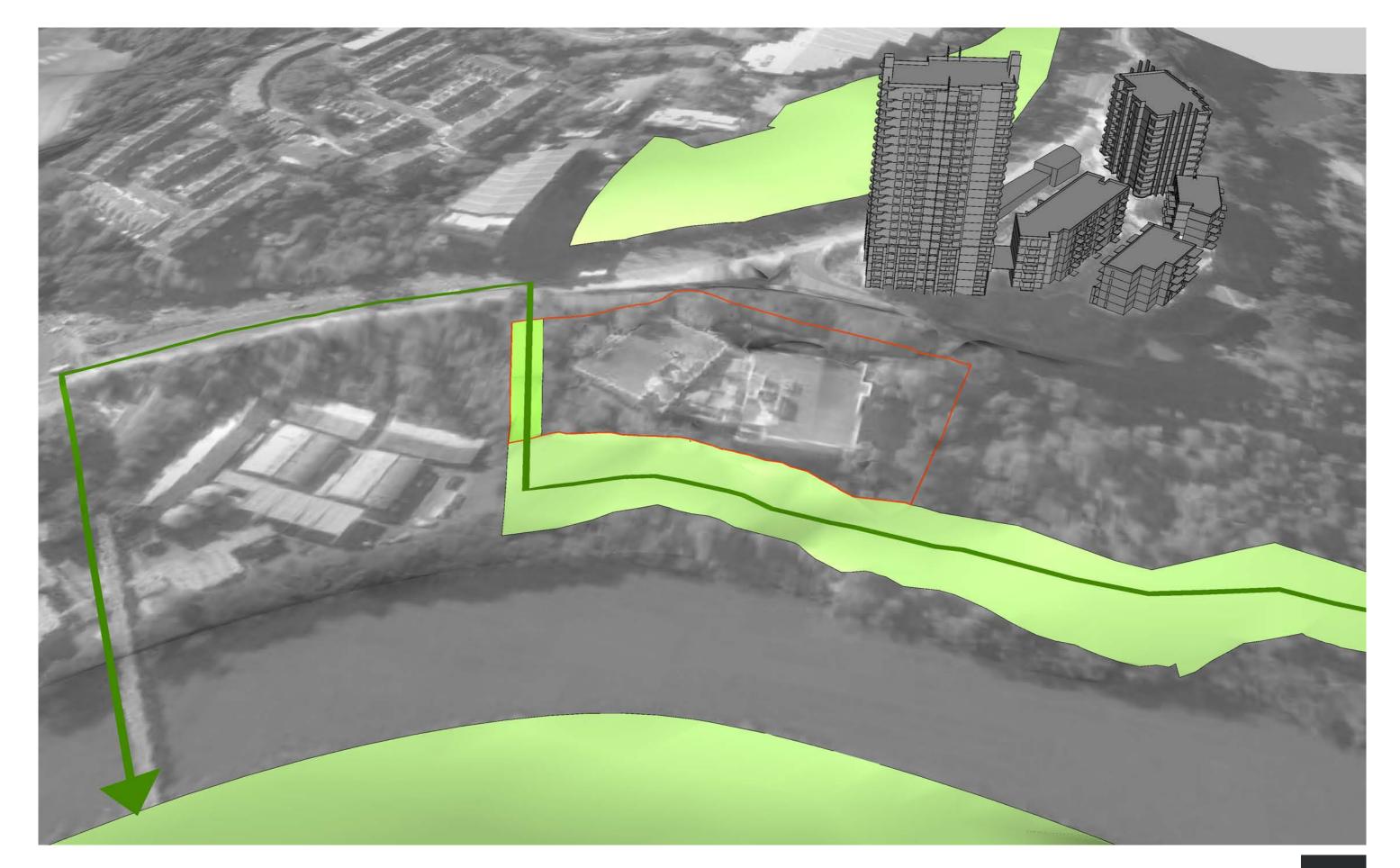












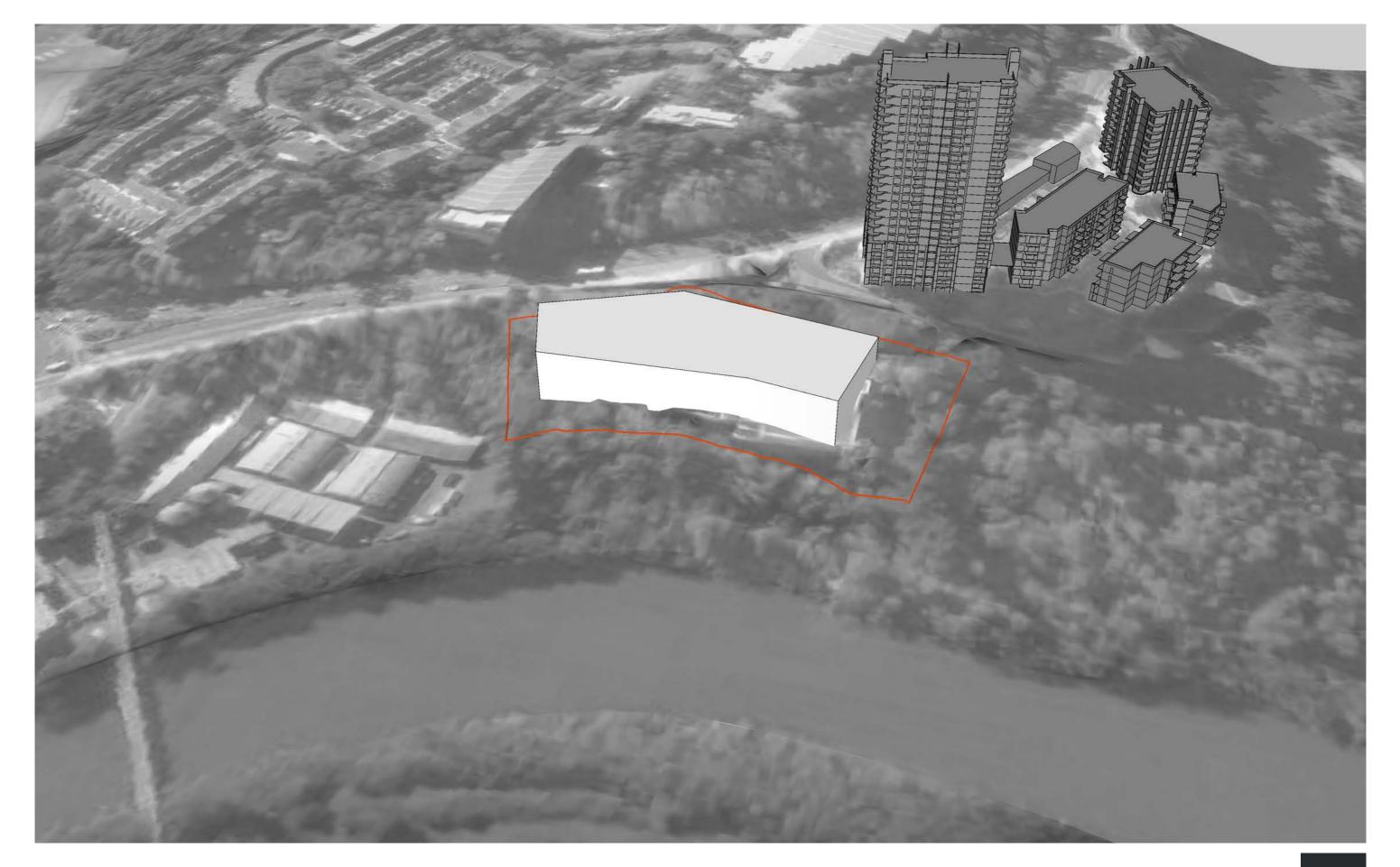




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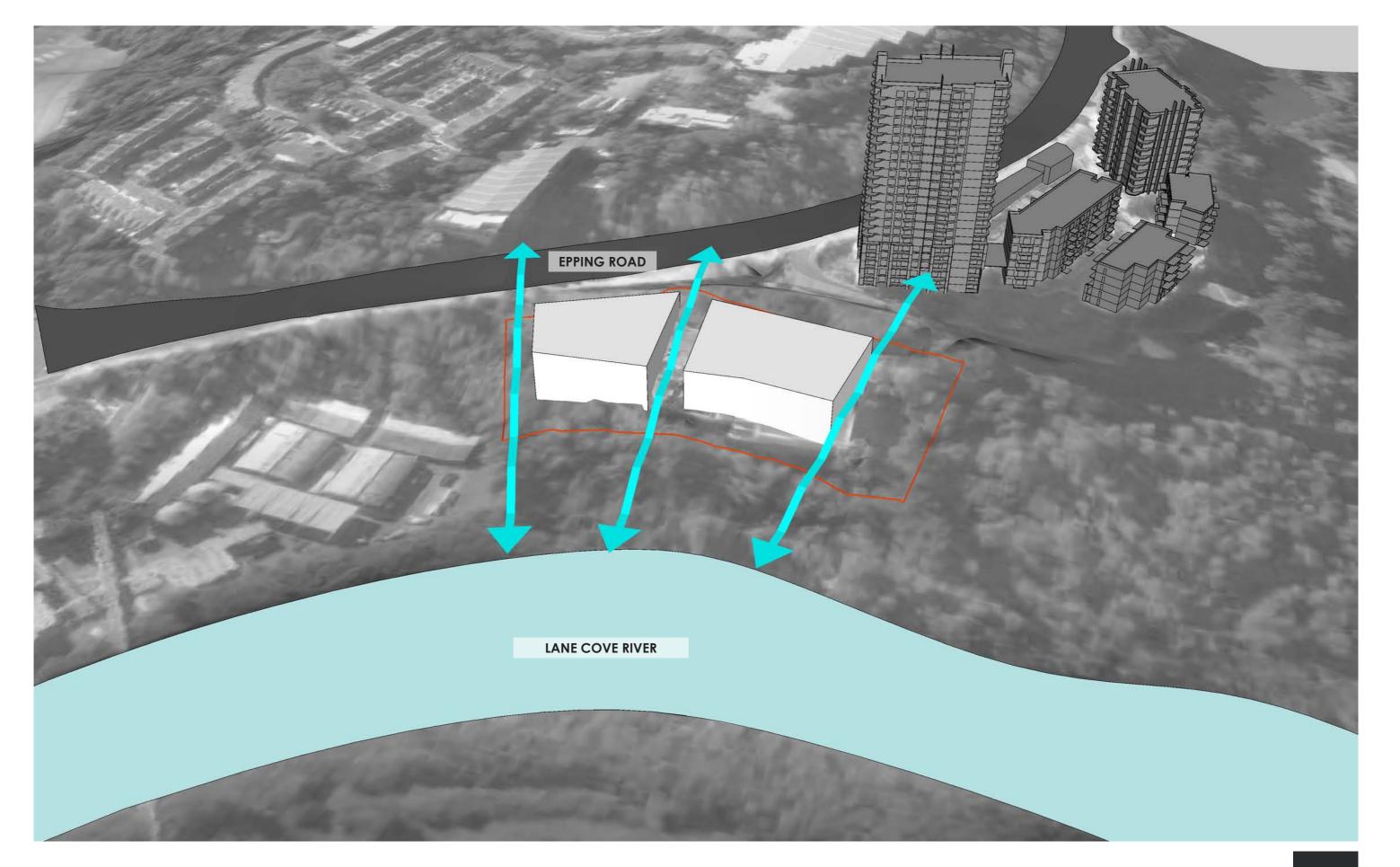






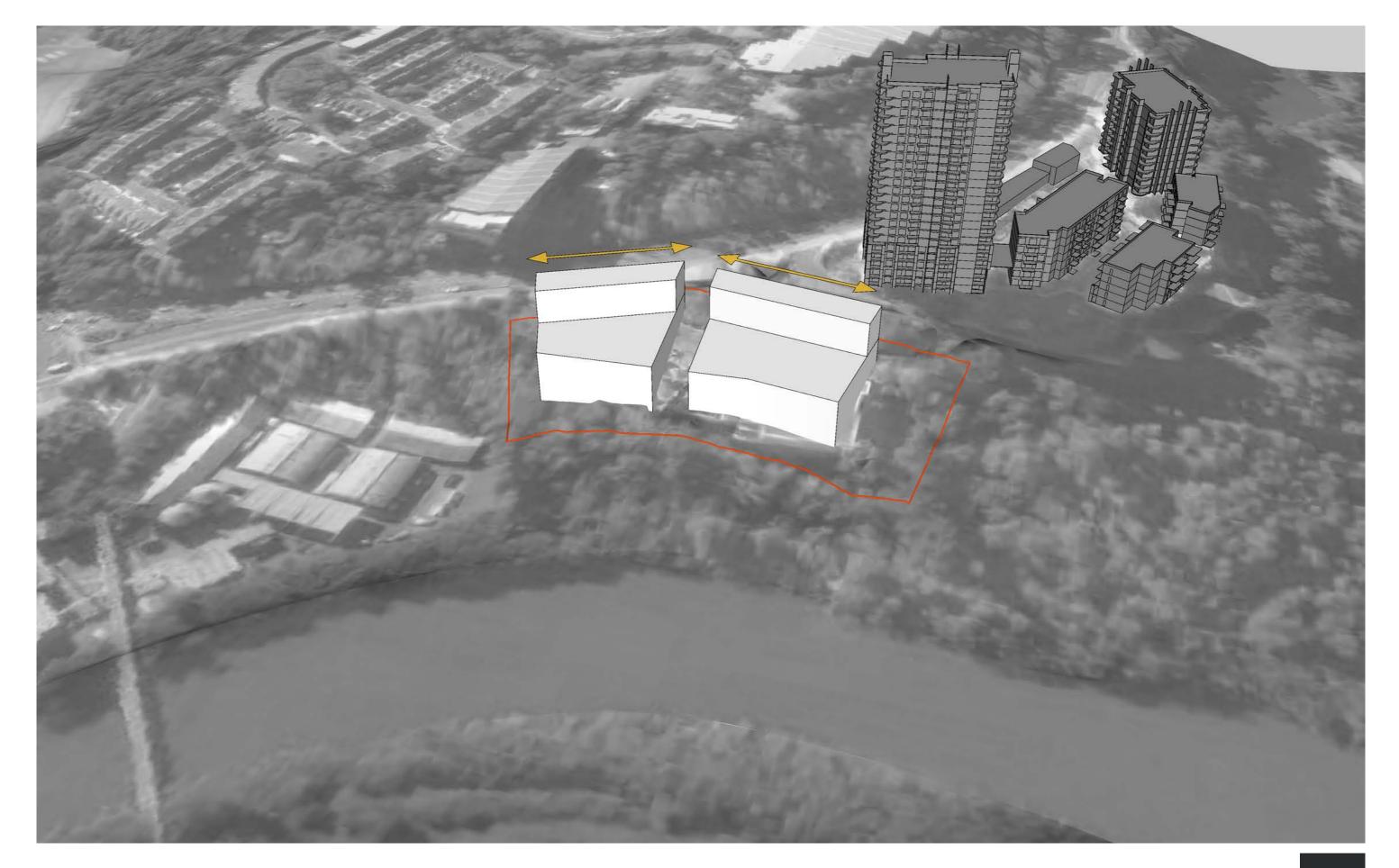






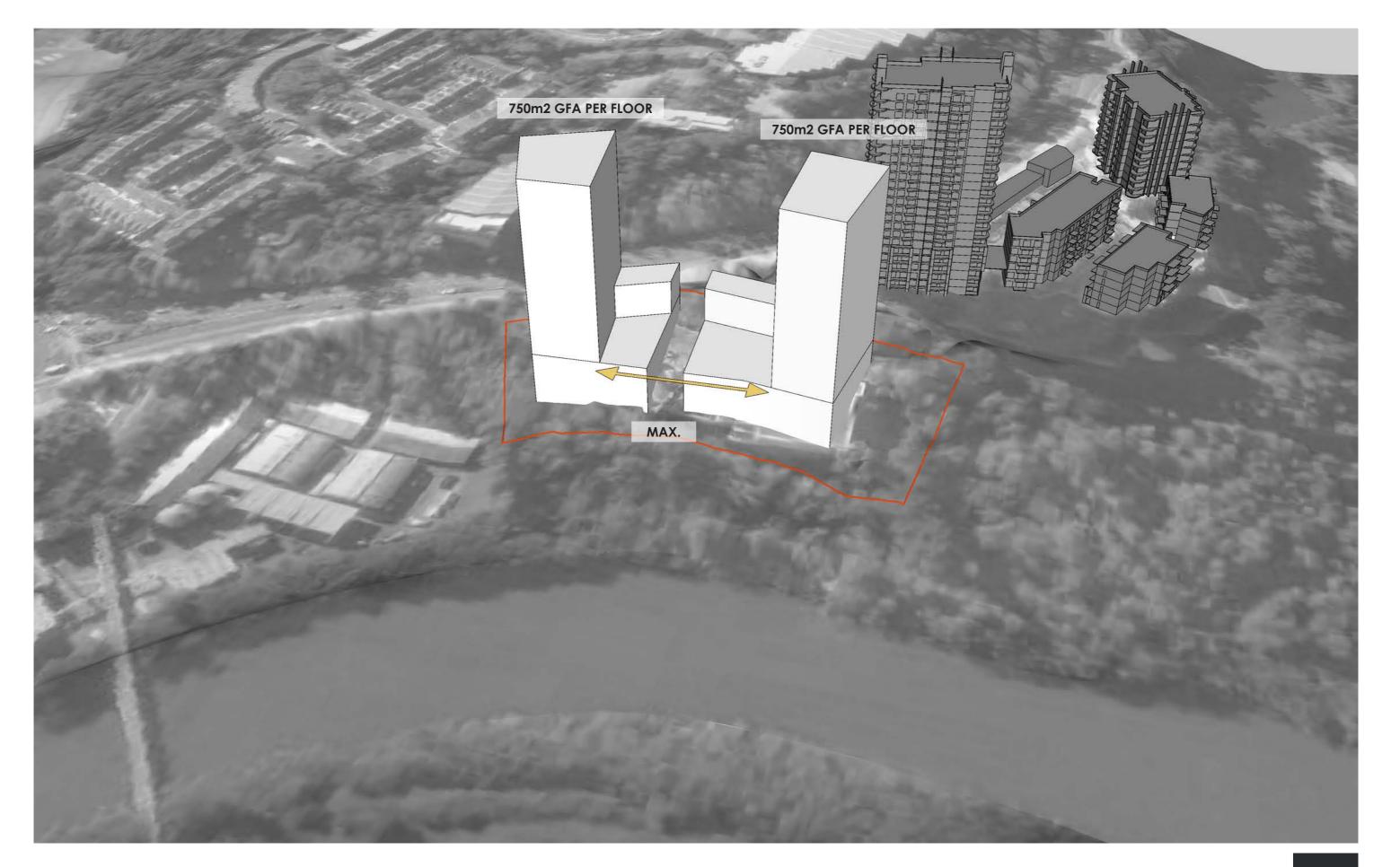






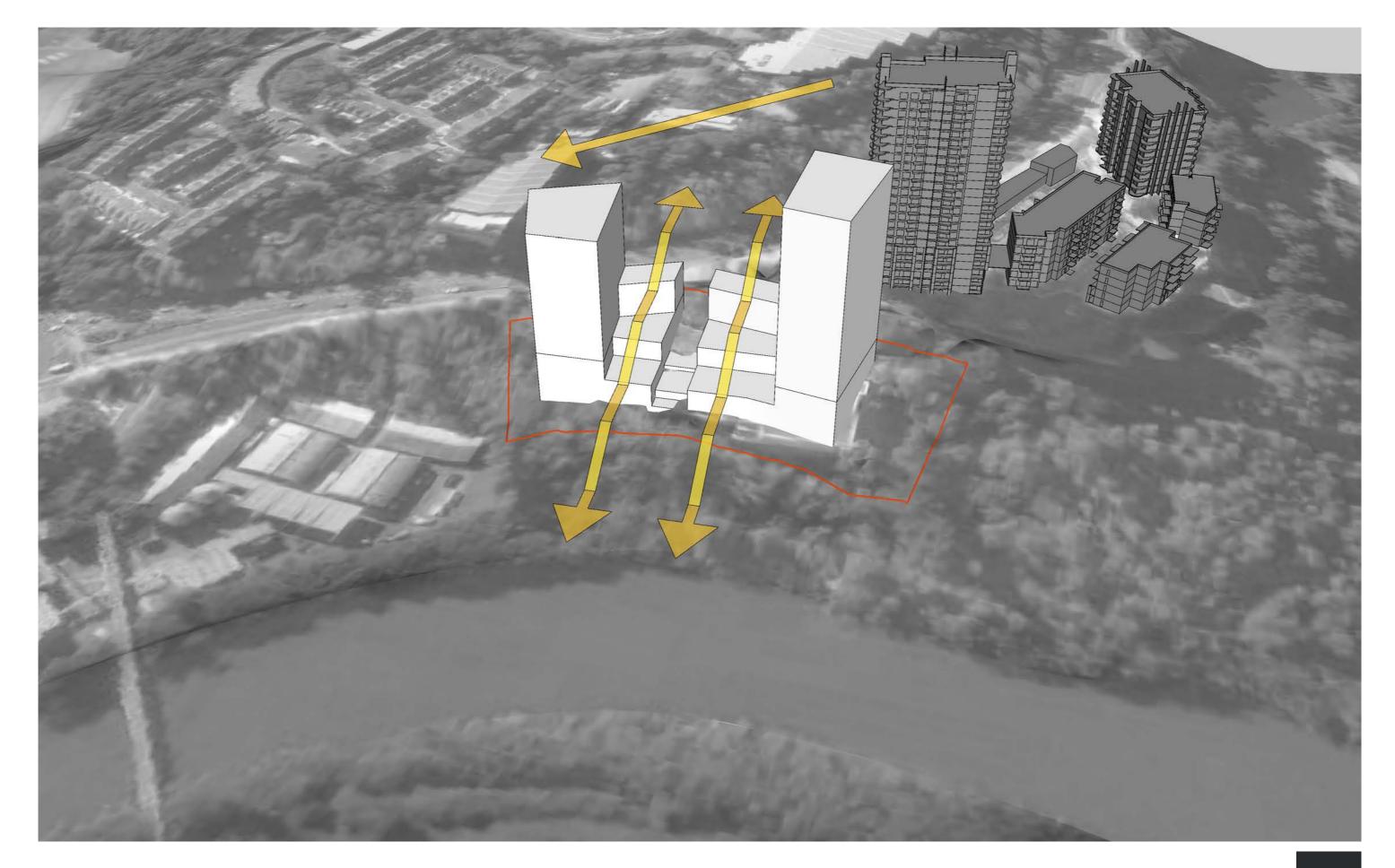


STREET WALL BUILDING



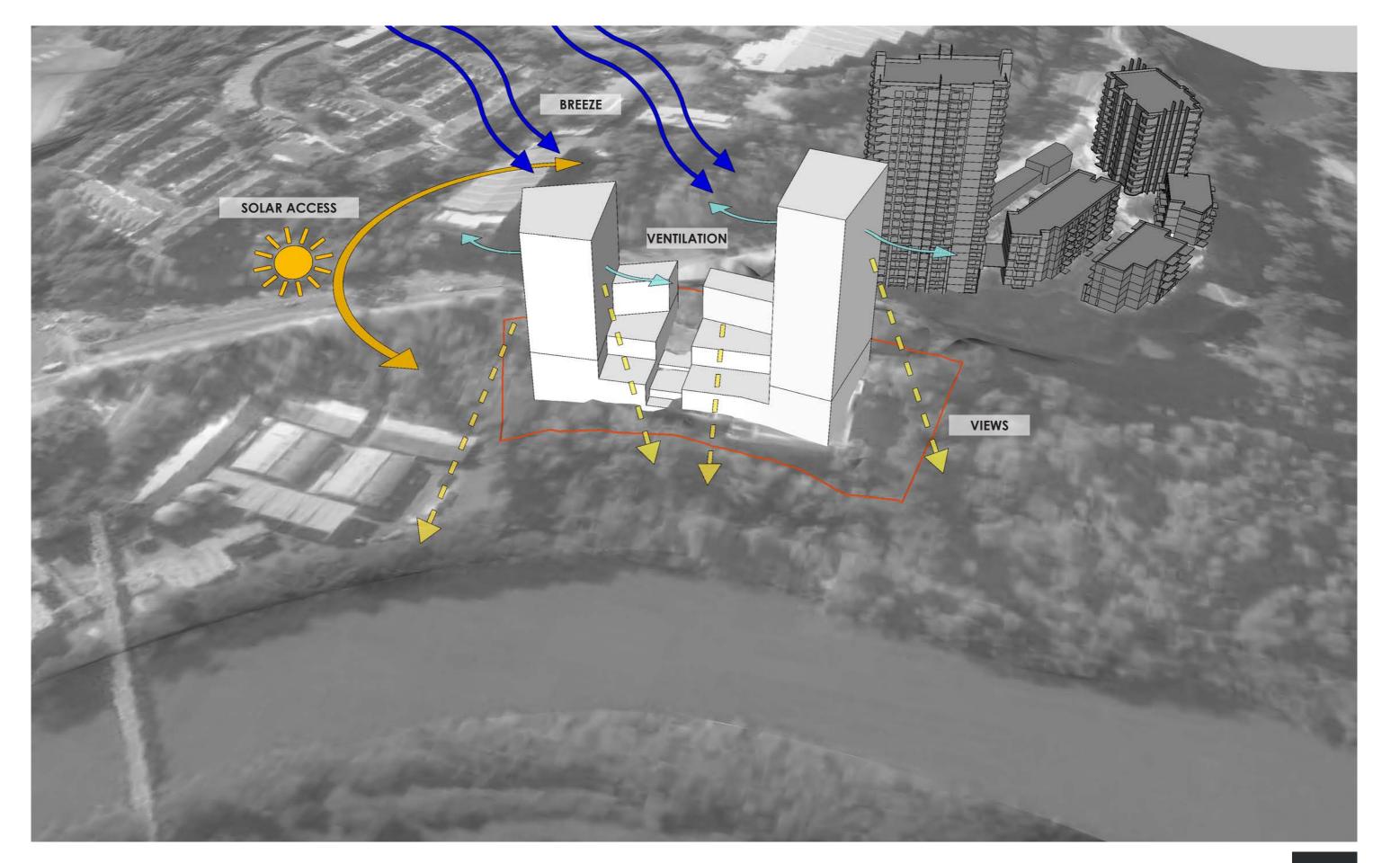








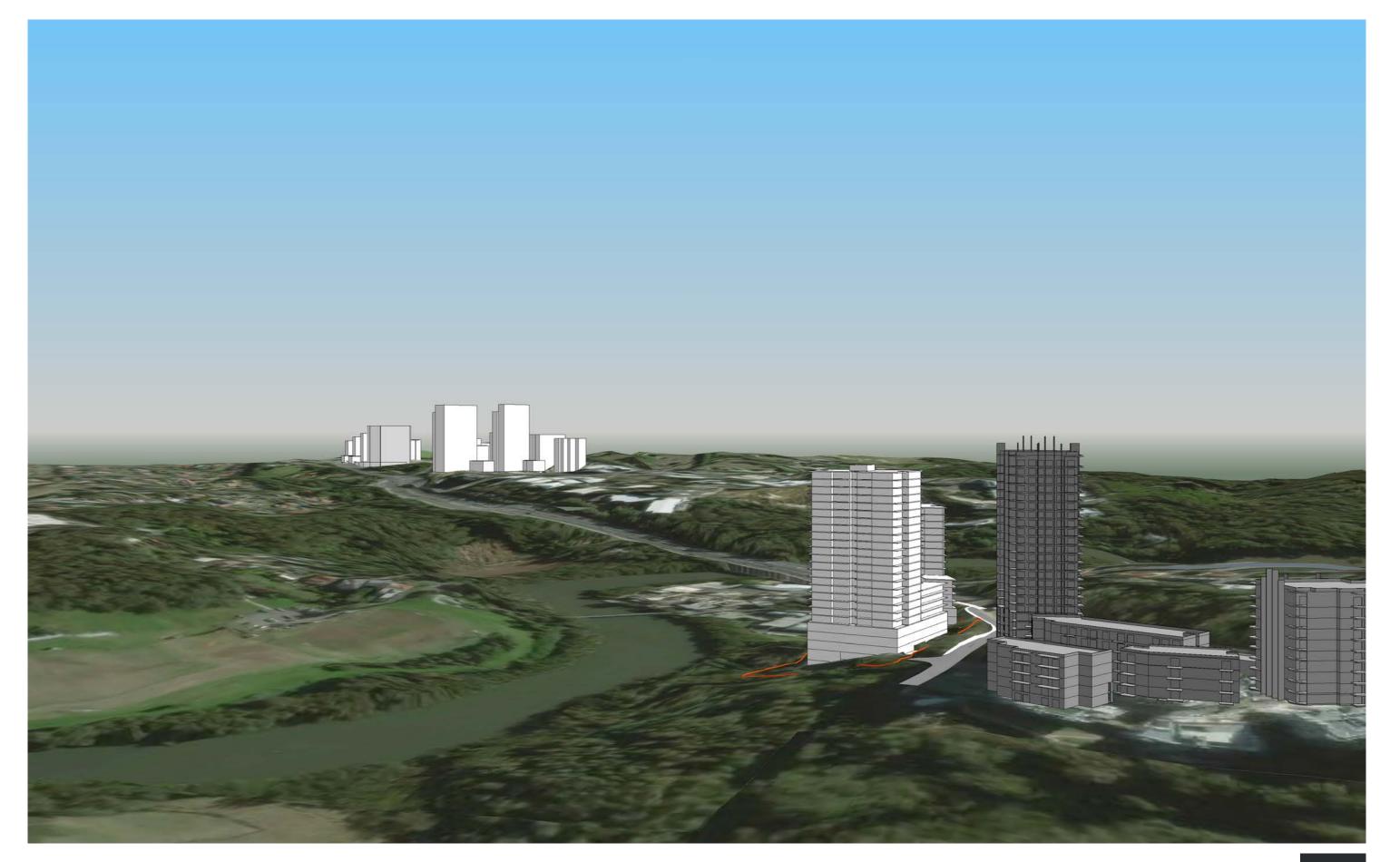
GRADUATED HEIGHT PLANE















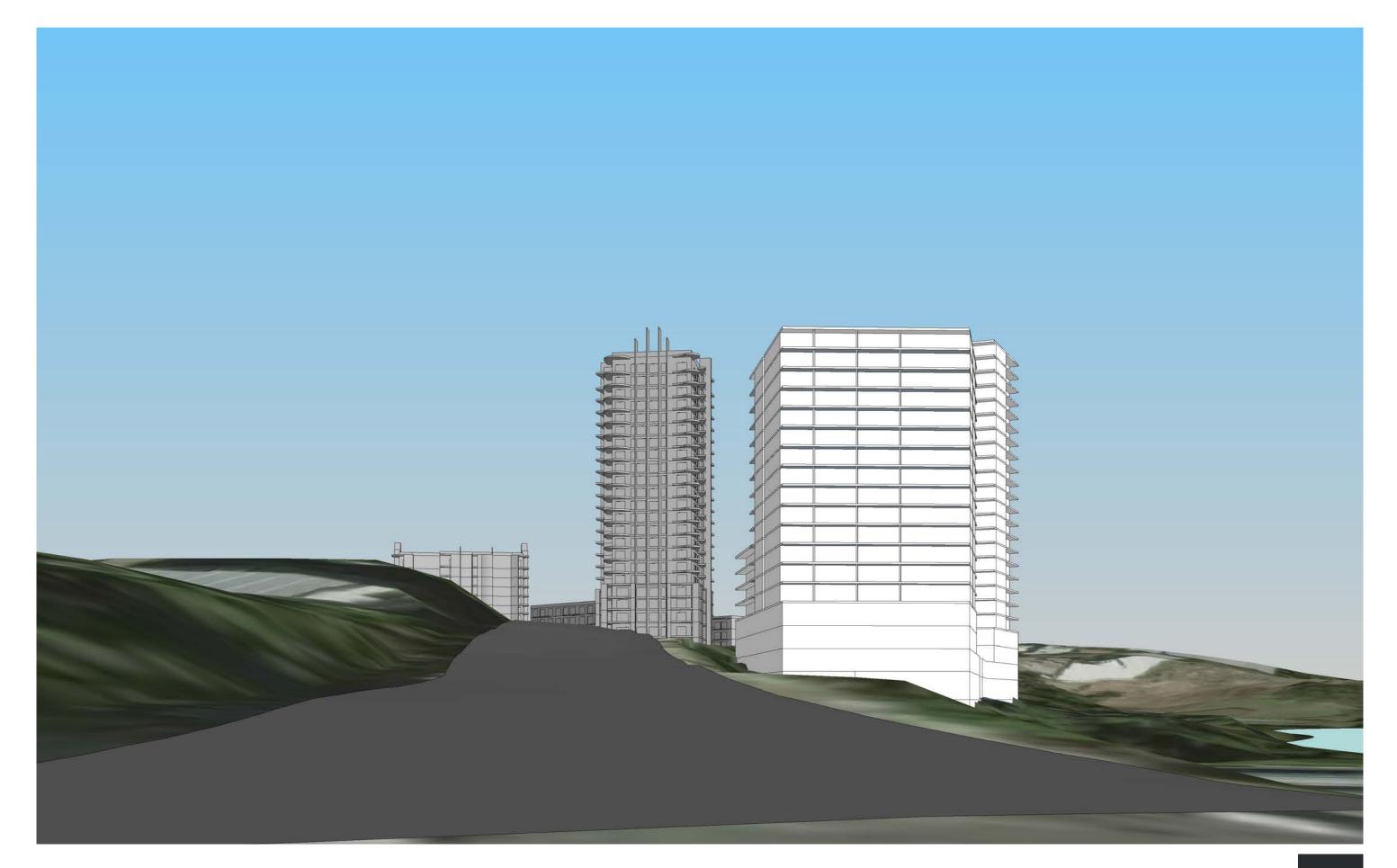


EASTERN VIEW FROM EPPING ROAD





EASTERN VIEW FROM EPPING ROAD





NORTHERN VIEW FROM EPPING ROAD









NORTHERN VIEW TOWARDS THE LANE COVE RIVER









URBAN DESIGN STUDY SHADOW ANALYSIS





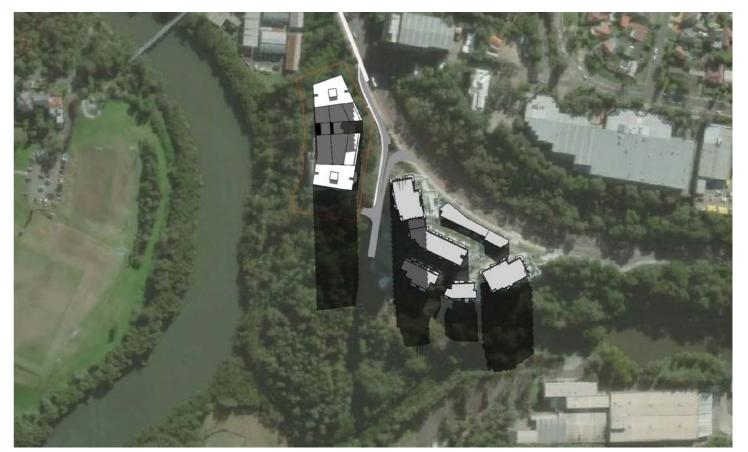
9AM - 21. JUNE



11AM - 21. JUNE



10AM - 21. JUNE



12PM - 21. JUNE



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SHADOW DIAGRAMS 21. JUNE - PREFERRED OPTION B SHADOW ANALYSIS

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1PM - 21. JUNE



3PM - 21. JUNE



2PM - 21. JUNE



4PM - 21. JUNE



SHADOW DIAGRAMS 21. JUNE - PREFERRED OPTION B SHADOW ANALYSIS



9AM - 21. JUNE



11AM - 21. JUNE 12PM - 2



10AM - 21. JUNE



12PM - 21. JUNE



OVERSHADOWING OF ARISE 21. JUNE - PREFERRED OPTION BSHADOW ANALYSIS



1PM - 21. JUNE



3PM - 21. JUNE



2PM - 21. JUNE



4PM - 21. JUNE



OVERSHADOWING OF ARISE 21. JUNE - PREFERRED OPTION B SHADOW ANALYSIS

URBAN DESIGN STUDY **AMENITY**





9AM - 21. JUNE



11AM - 21. JUNE



10AM - 21. JUNE



12PM - 21. JUNE



SOLAR & DAYLIGHT ACCESS - PREFERRED OPTION B **AMENITY**



1PM - 21. JUNE



3PM - 21. JUNE 4PM - 21. JUNE



2PM - 21. JUNE



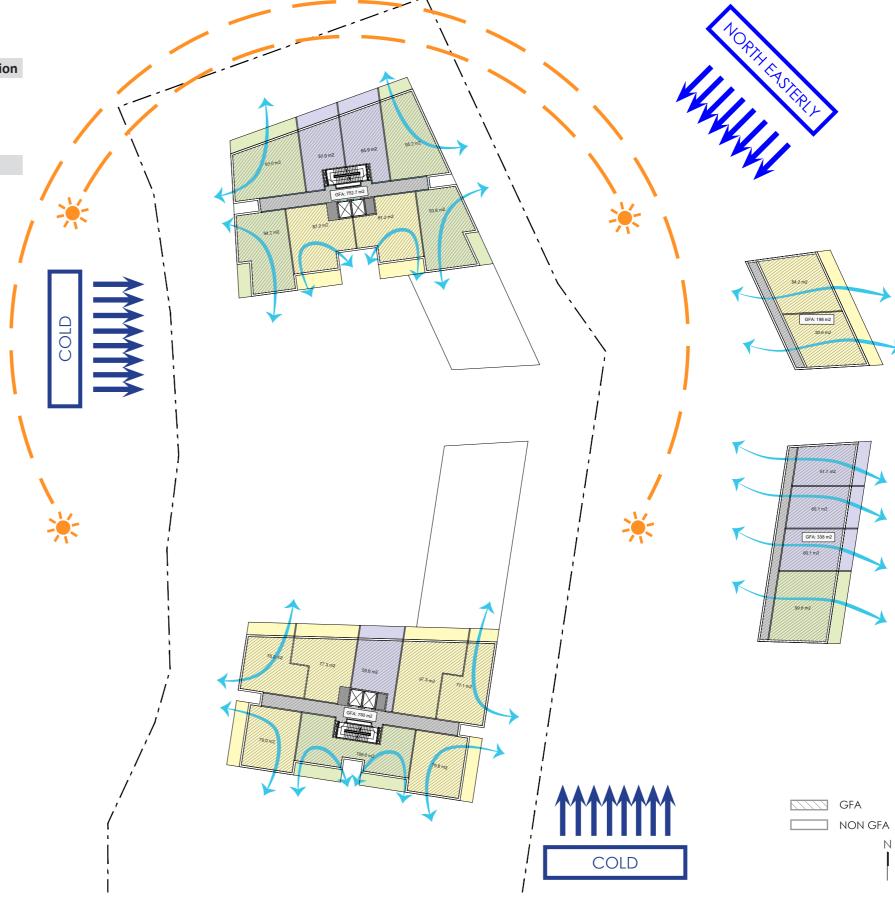
SOLAR & DAYLIGHT ACCESS - PREFERRED OPTION B

AMENITY

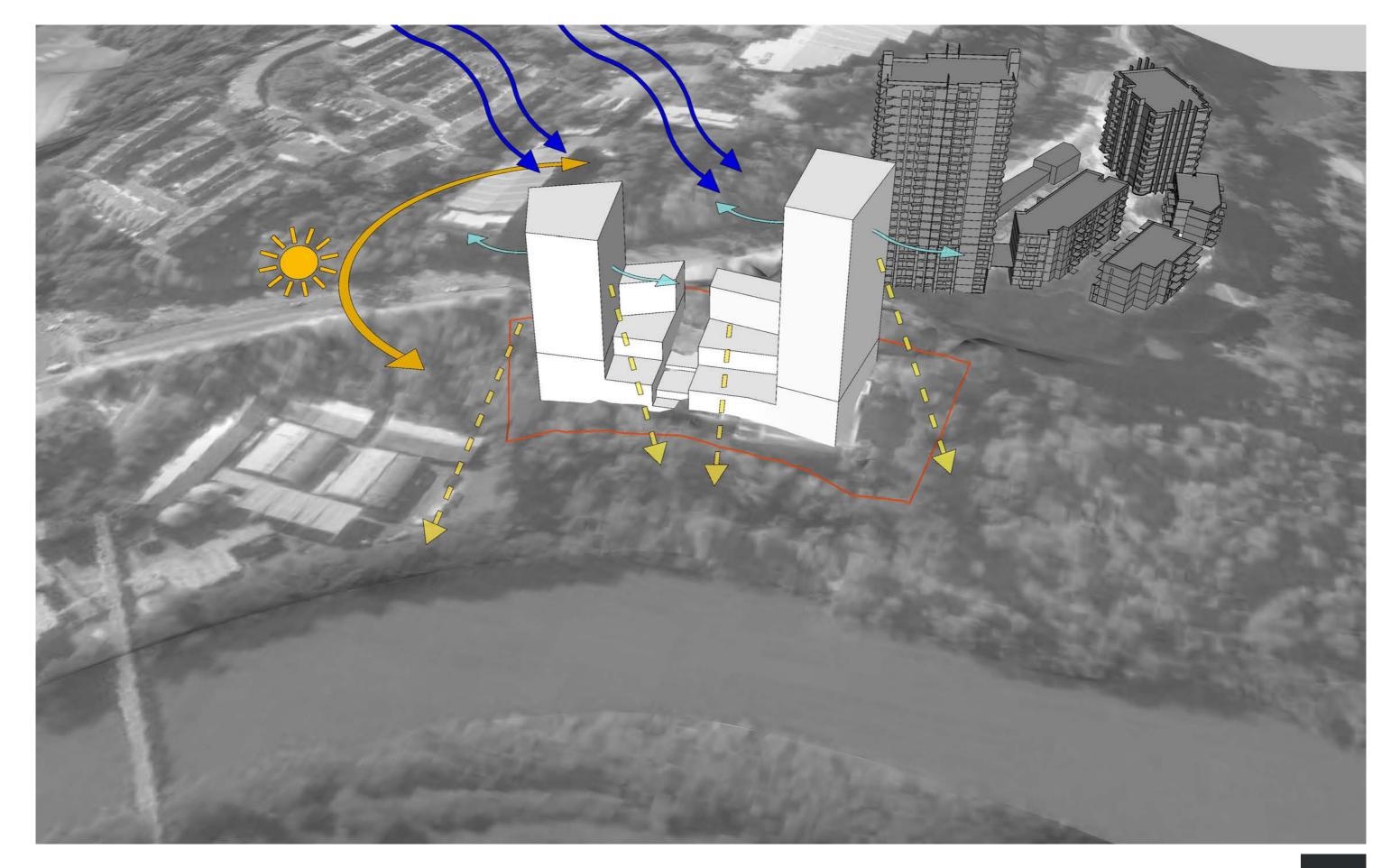
79

ADG 4A-1, 3B-3	Apartments	No sunlight	> 2 hours	Ventilation
South Tower	160	20	140	120
Street wall building	24		24	24
North Tower	112	28	84	84
Total	296	44	248	228
		14.86%	84%	77%

^{* 4} tower top floor apartments can get sunlight through roof lights







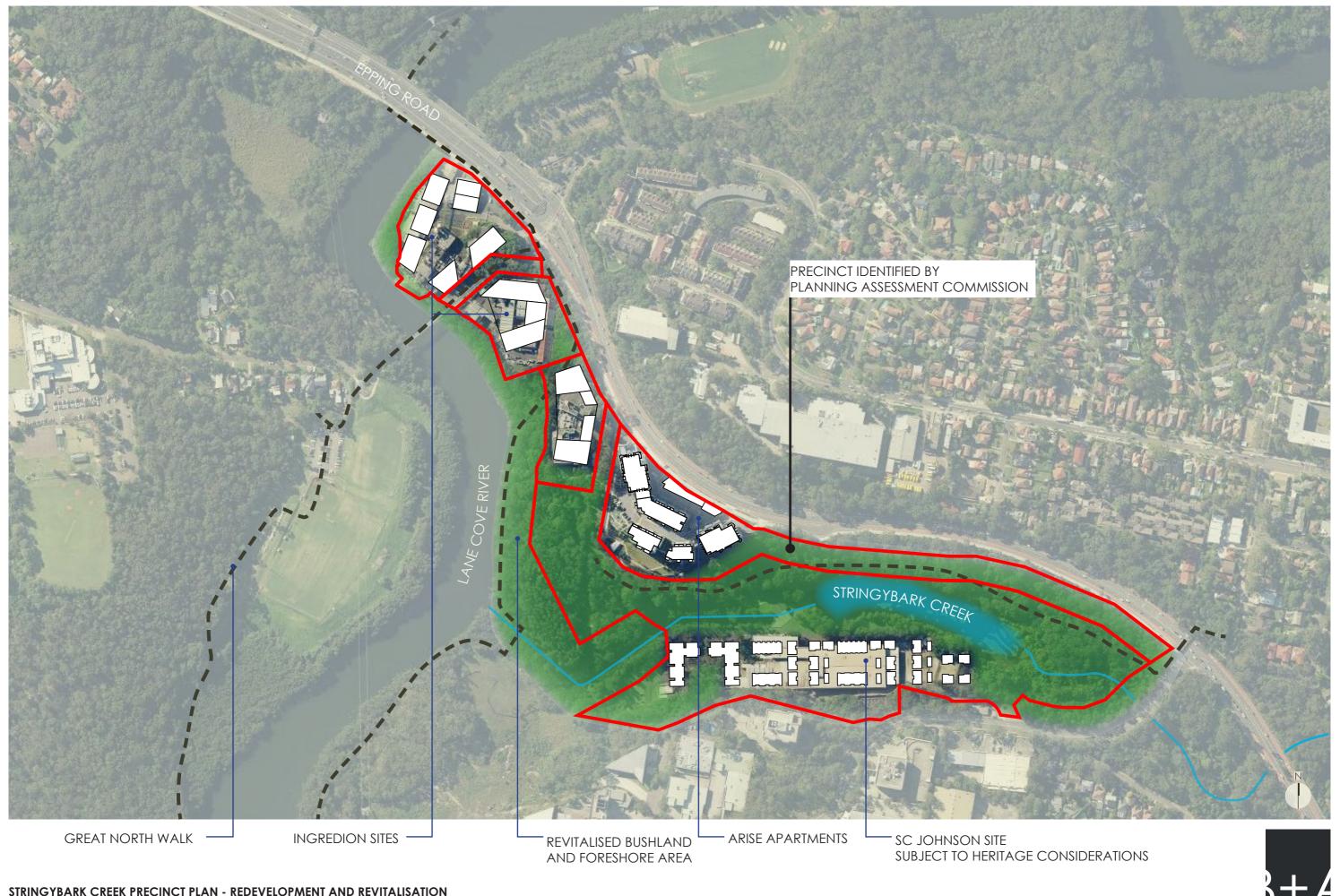


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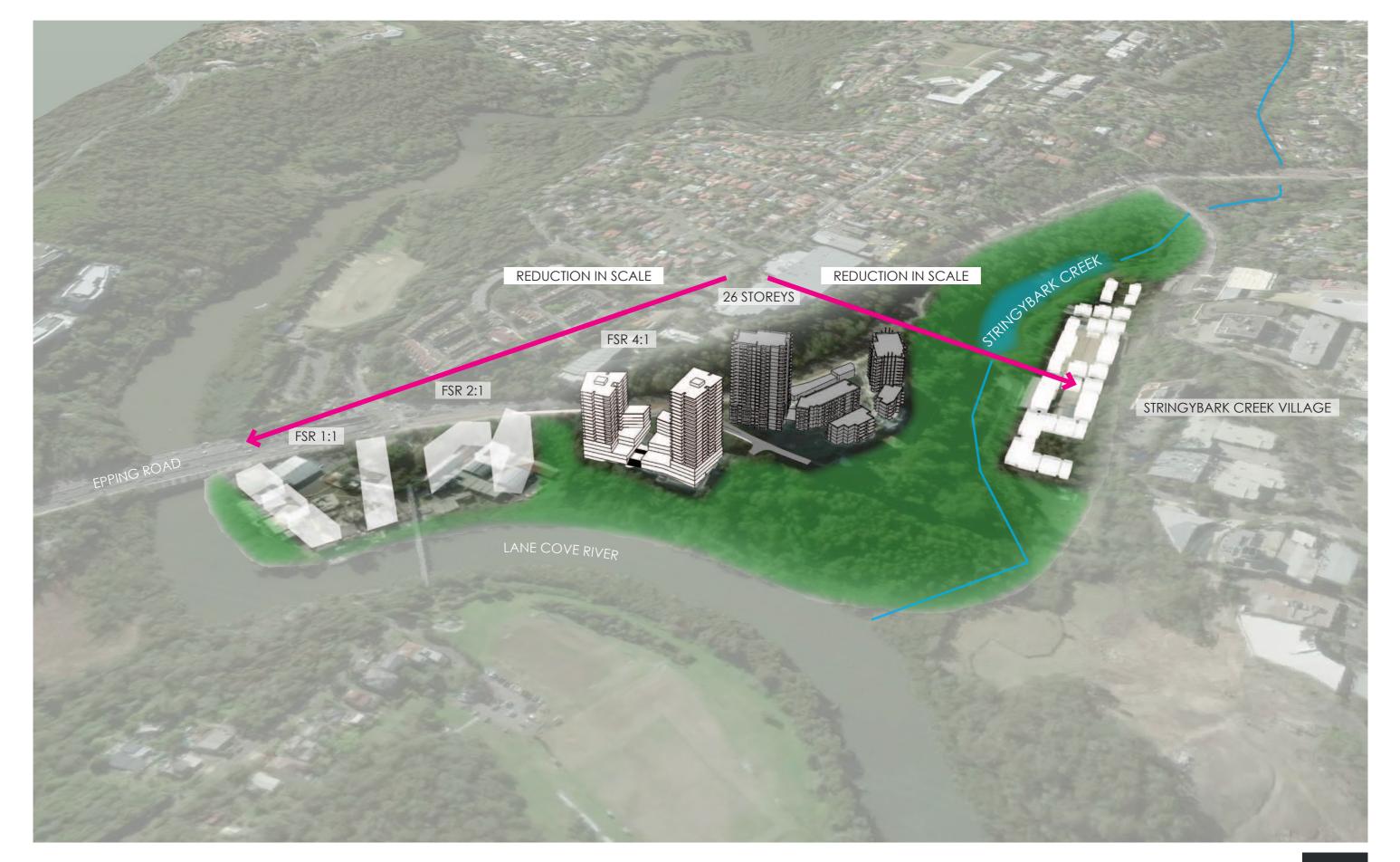
AMENITY

URBAN DESIGN STUDY **FUTURE CONTEXT**





STRINGYBARK CREEK PRECINCT PLAN - REDEVELOPMENT AND REVITALISATIONFUTURE CONTEXT





STRINGYBARK CREEK PRECINCT SCALE PRINCIPLES - AERIAL VIEW FROM SOUTH

FUTURE CONTEXT

