



Urban Forest Tree Planting Cambridge Green

PROJECT NUMBER: **BM230857** Concept Design

PROJECT ADDRESS: 345 Cambridge Terrace,
Christchurch Central City,
Christchurch 8013

CLIENT: Christchurch City Council

CLIENT ADDRESS: 53 Hereford Street
Christchurch Central
Christchurch 8013
New Zealand



Boffa Miskell Limited
Level 1
141 Cambridge Terrace
Christchurch 8013
New Zealand
Tel: +64 3 366 8891
www.boffamiskell.co.nz

REV	DATE	DESCRIPTION
A	05.12.23	For Review
B	14.12.23	Concept Design

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ORIGINAL IN COLOUR

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LEGEND

Existing Canopy Cover

Existing Lower Vegetation

Existing Pathways and Features

Existing Specimen Trees - 18

Existing Canopy Cover - 485.71 m²

17.1%

Canopy coverage to existing site

Vegetation cover mapped based on CCC aerial photography dated 17 November 2023, with site visit to verify existing conditions.

0 m

3 m

6 m

12 m

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APr

HCo

HCo

Urban Forest Tree Planting

Cambridge Green

Existing Site

Design HCo

Drawn ARo

Check GRo

Scale

1:300 @ A1

1:600 @ A3

Date

14.12.2023

CONCEPT DESIGN

DRAWING NO.

BM230857_200

REVISION

B

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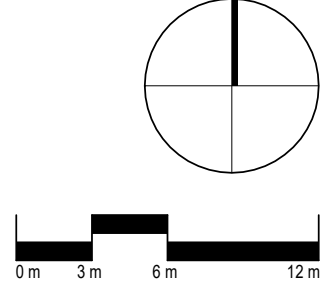
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LEGEND

- 20m+ Tree Height Area
- 10 - 20m Tree Height Area
- 5 - 10m Tree Height Area

The Tree Height Capacity model is derived from the following rules, supplied by CCC:

- No tree shall intrude through the recession plane at maturity
- No tree shall be planted closer than 3.0m from a pathway
- No tree shall be planted closer than 5.0m from a sports field and no tree canopy drip line shall extend above a sports field
- Tree spacings shall be a minimum of 5.0m apart to allow for easy lawn mowing
- Min. 2m offset for low voltage power
- Min. 3m offset for 11kv power
- Min. 5m offset for 33-66kv
- Min. of 1m offset for all other services and hard paving not mentioned above



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APr
HCo
HCo

**Urban Forest Tree Planting
Cambridge Green**

Tree Height Capacities

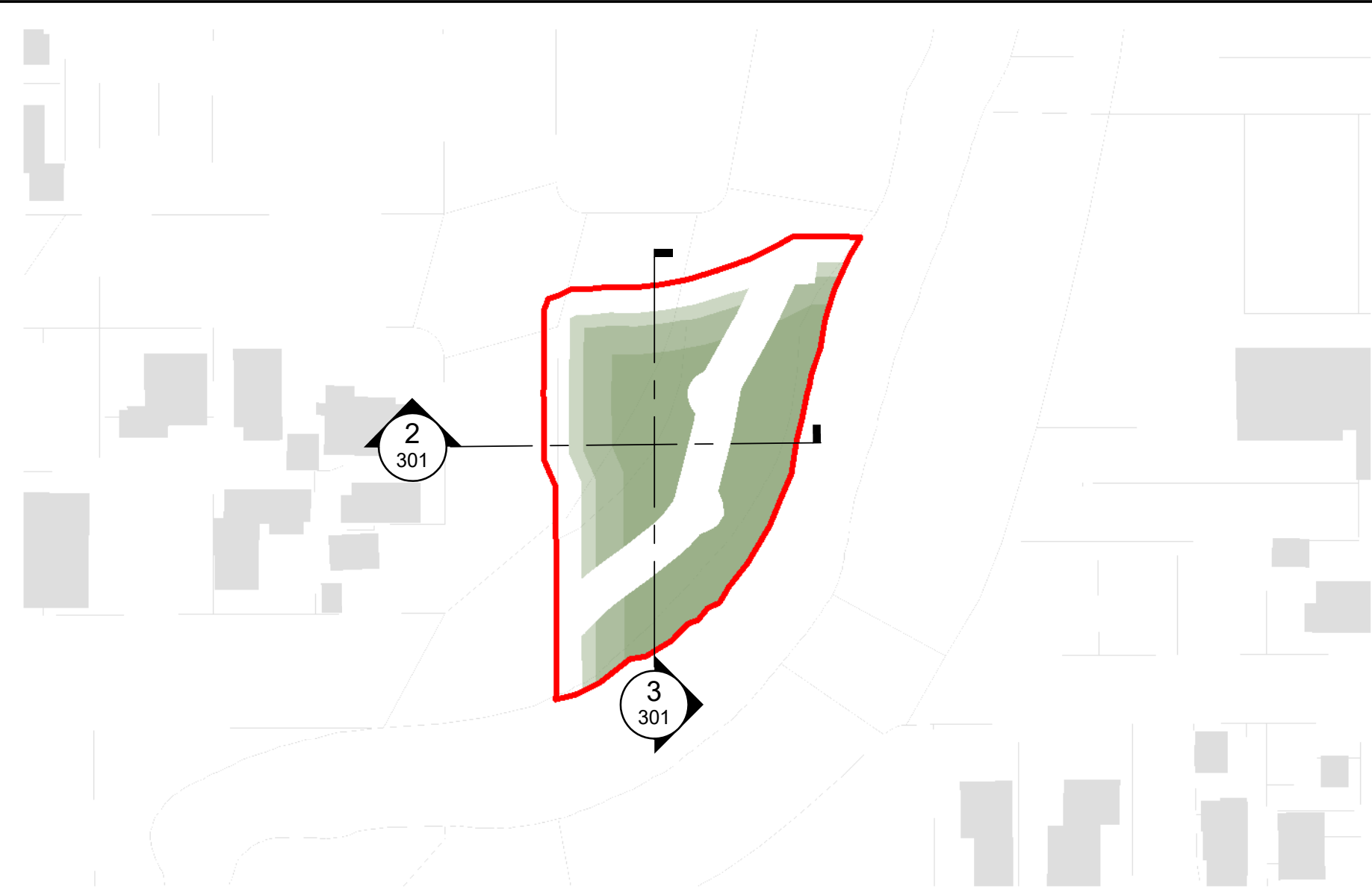
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Check	GRo	1:600 @ A3	

Concept Design

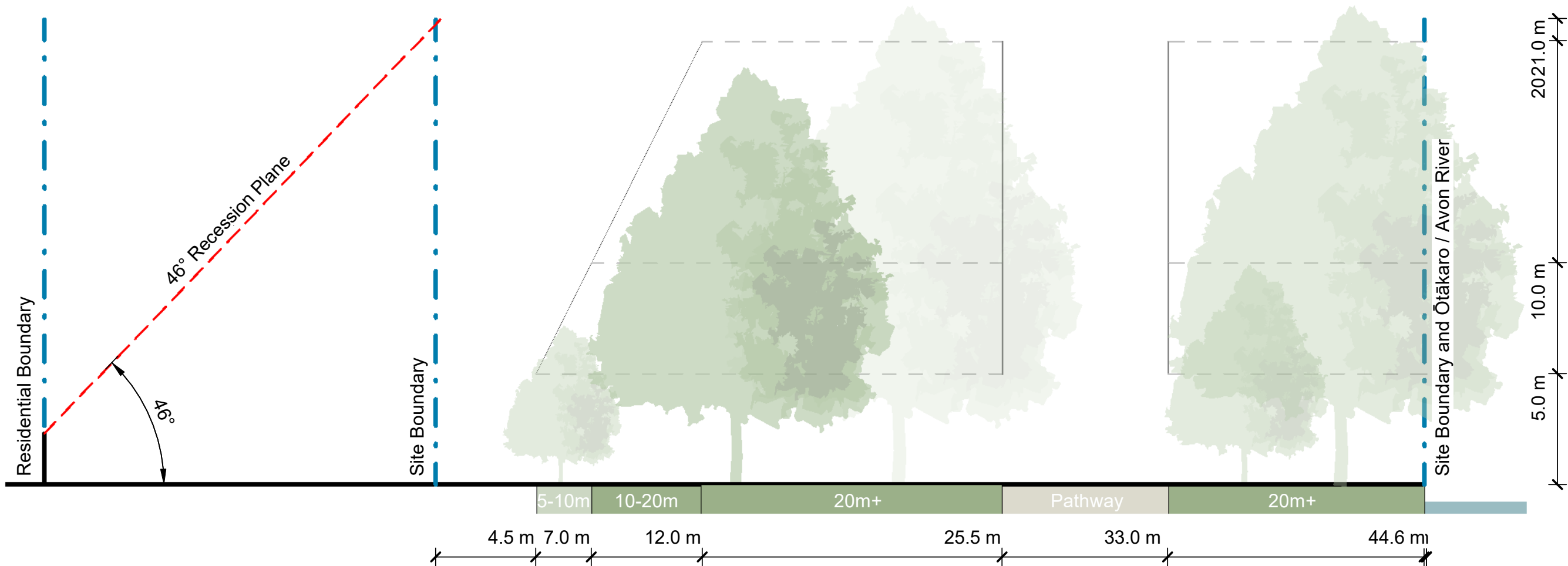
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REVISION
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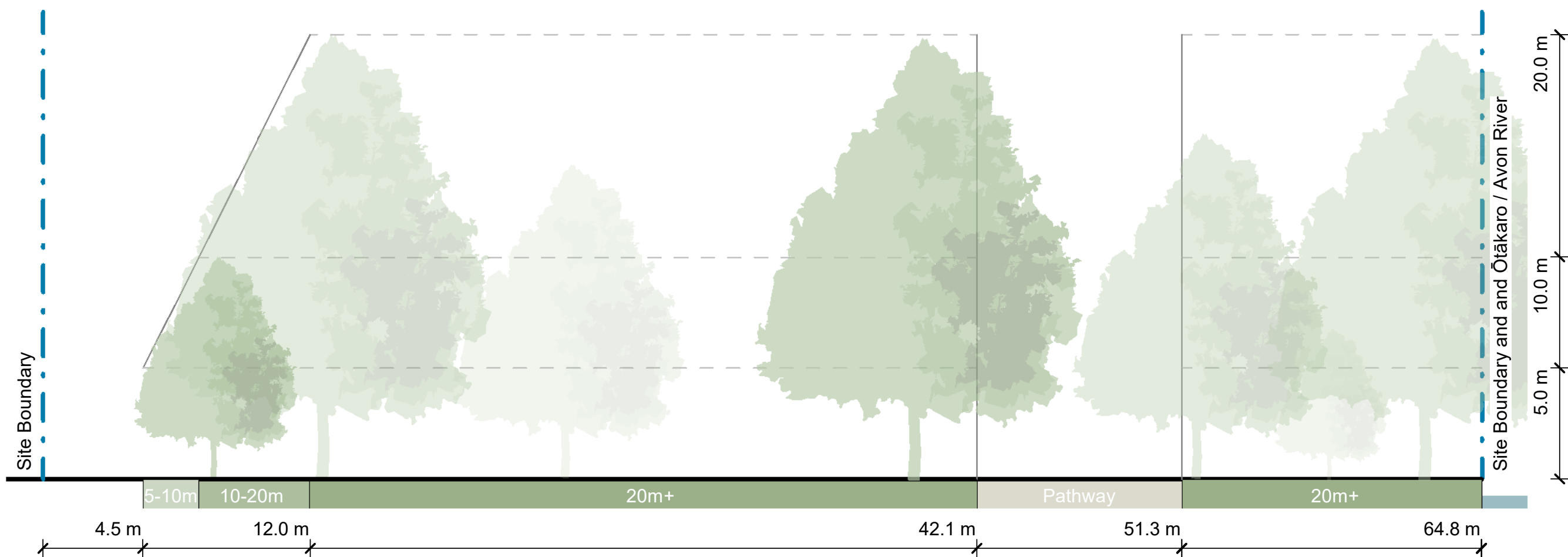
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1 Sections - Cross Section Plan
Scale: 1 : 1000

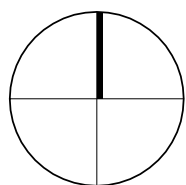


2 Cross Section 1
301
Scale: 1 : 200



3 Cross Section 2
300
Scale: 1 : 200

ORIGINAL IN COLOUR



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APr
HCo
HCo

Urban Forest Tree Planting Cambridge Green

Cross Section Studies of Potential Tree
Heights

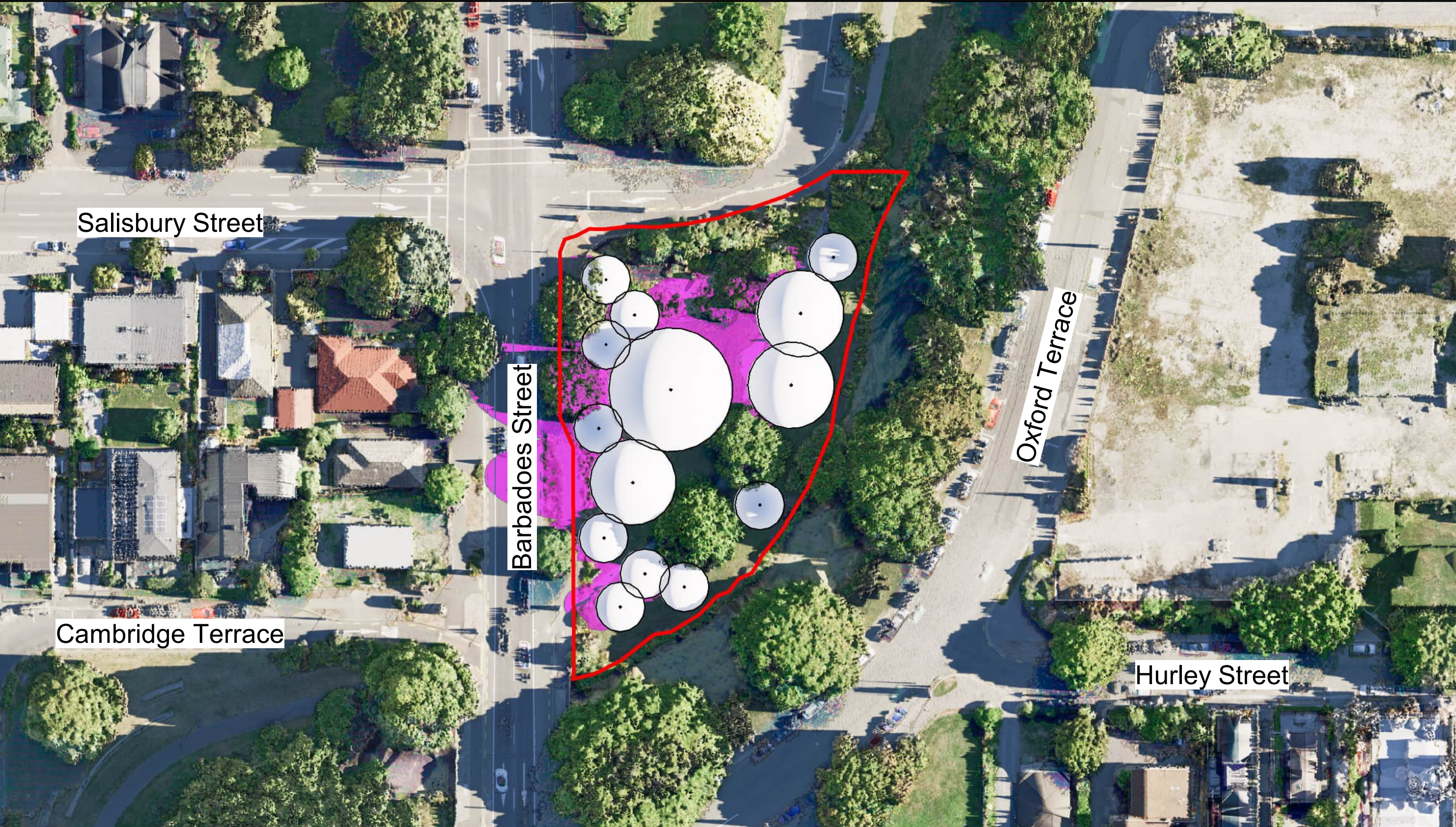
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Drawn	ARo	As Shown	14.12.2023
Check	GRo		

Concept Design

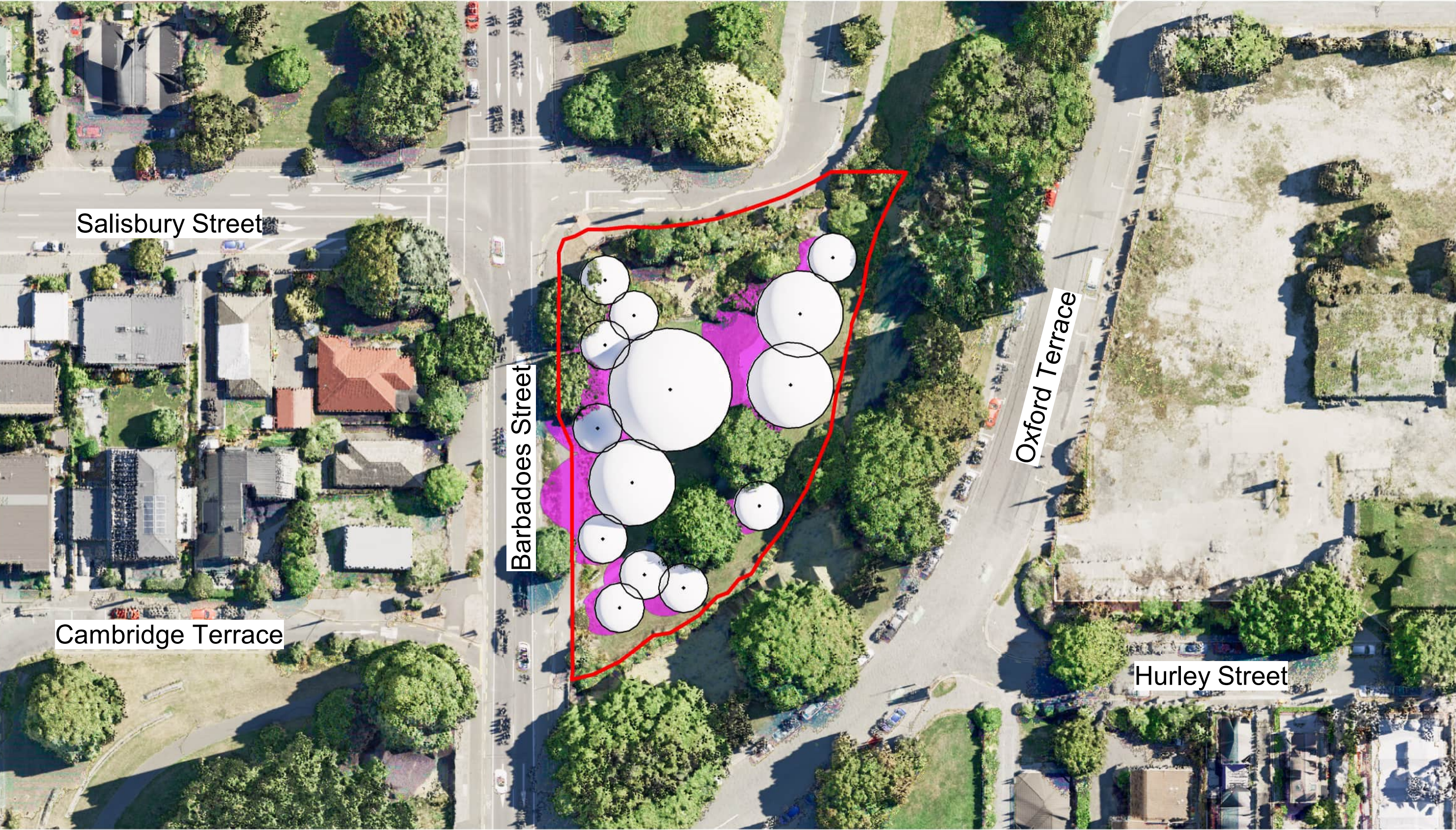
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BM230857_301	B



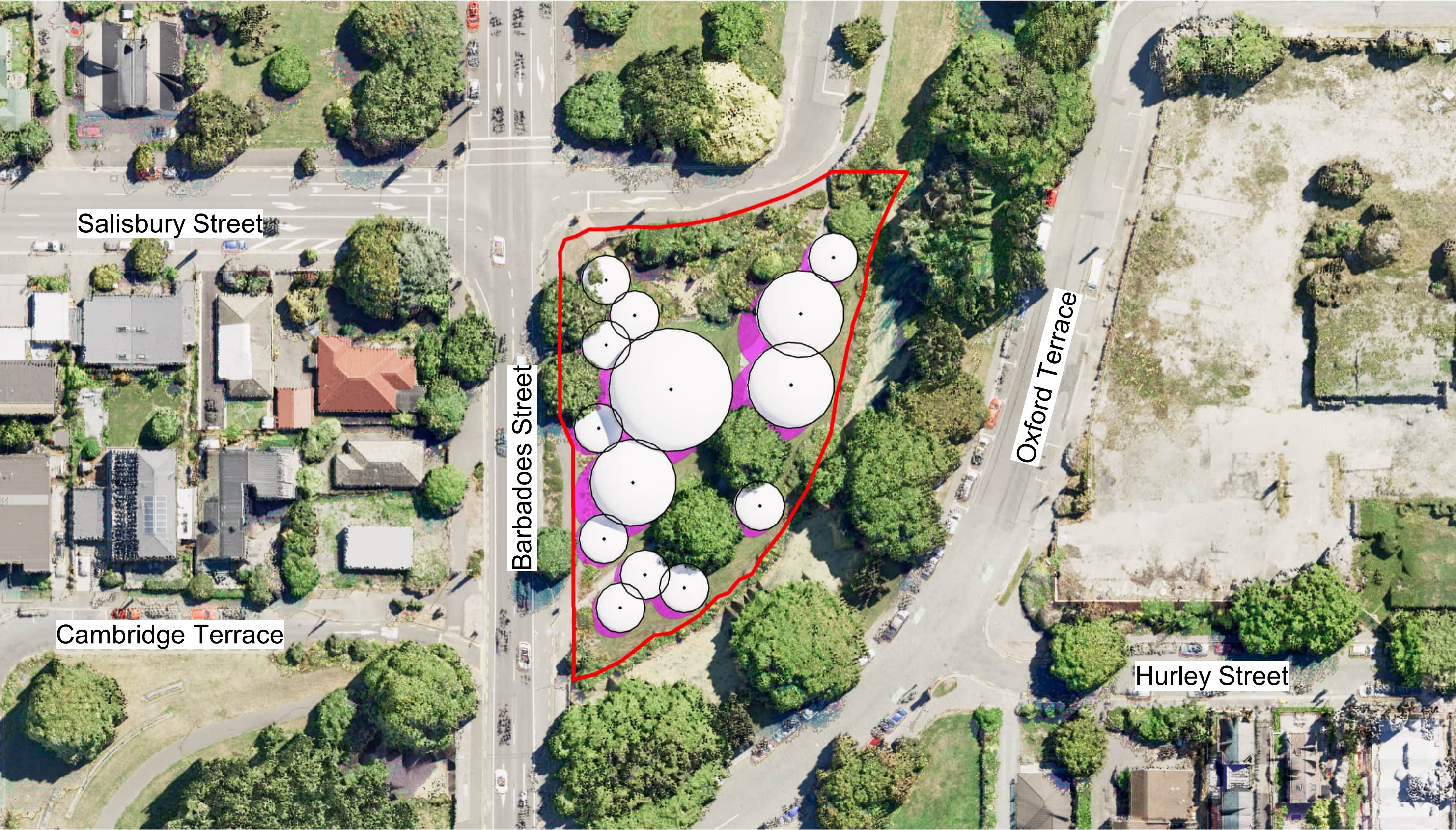
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Scale: 1 : 600



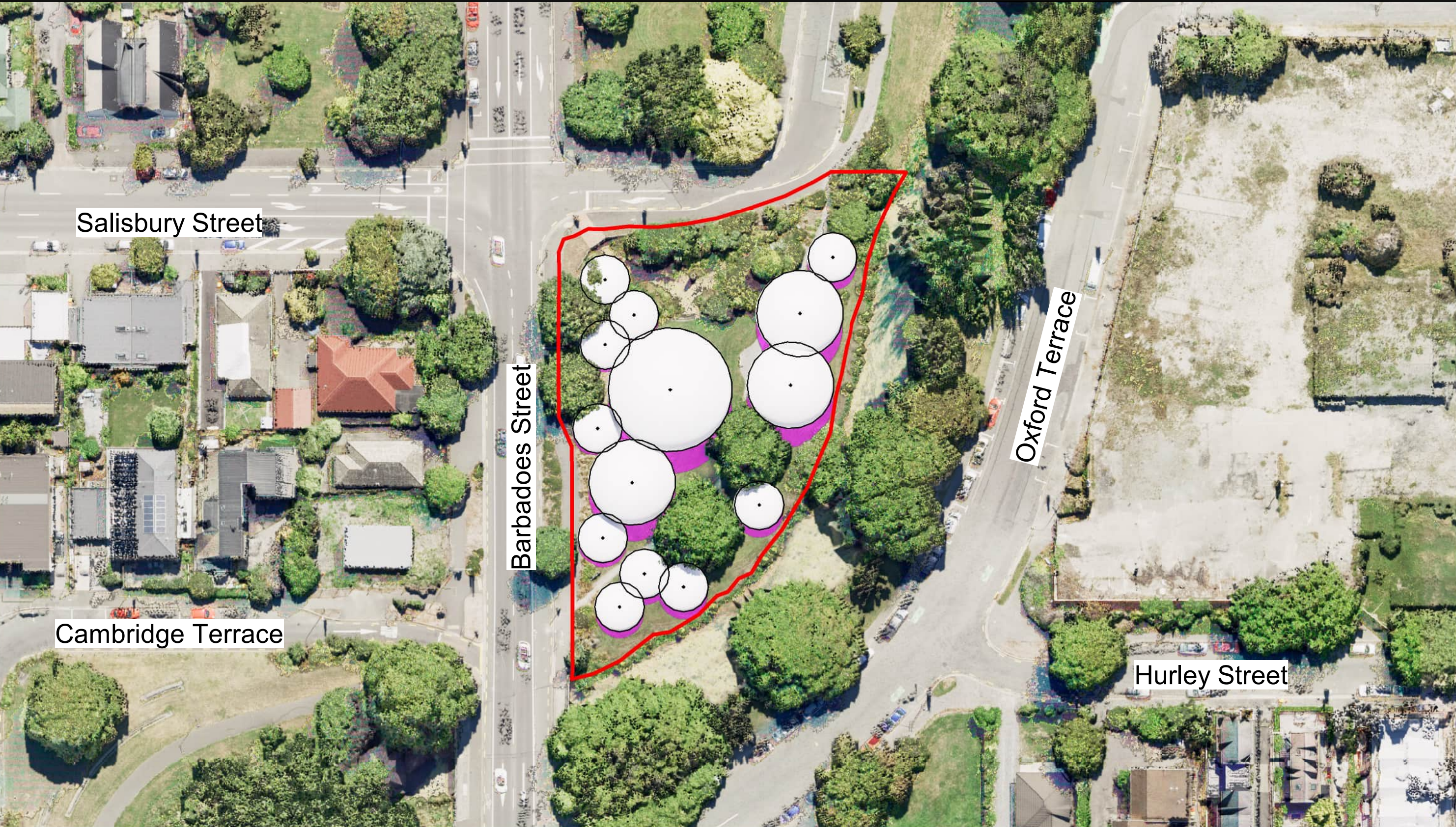
2 Summer - 9:00am
Scale: 1 : 600



3 Summer - 10:30am
Scale: 1 : 600



4 Summer - 12:00pm
Scale: 1 : 600



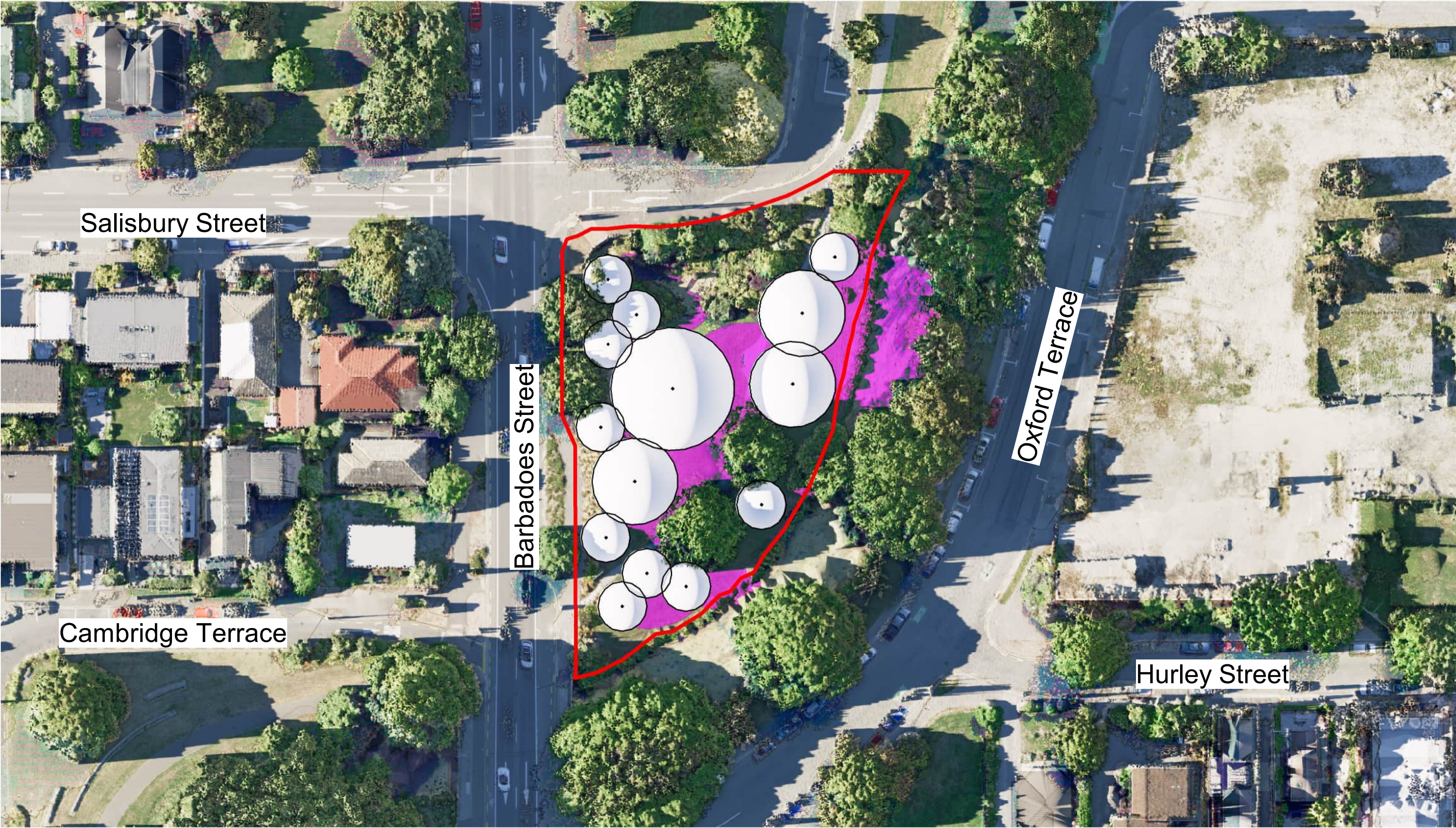
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Scale: 1 : 600



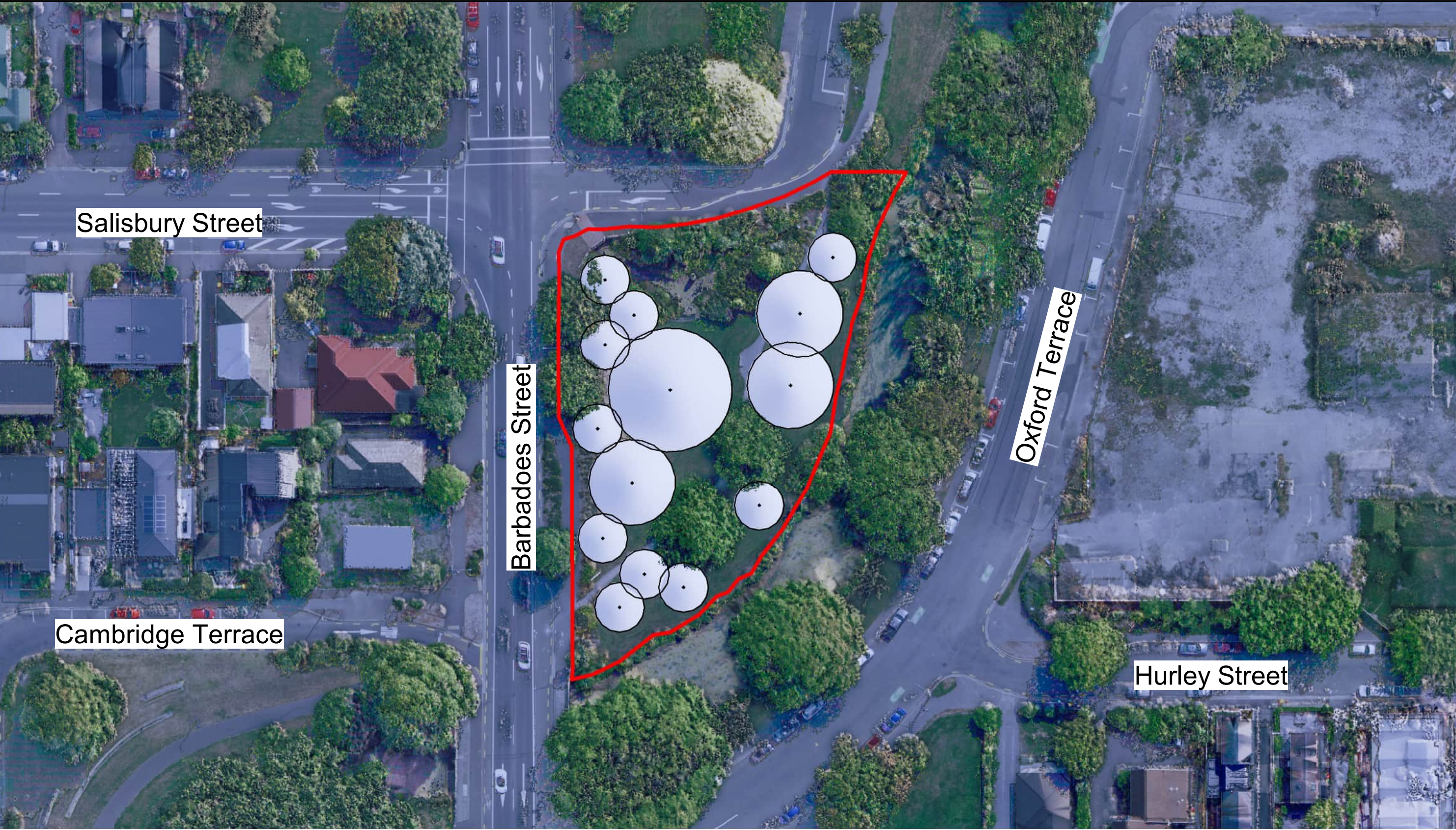
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Scale: 1 : 600



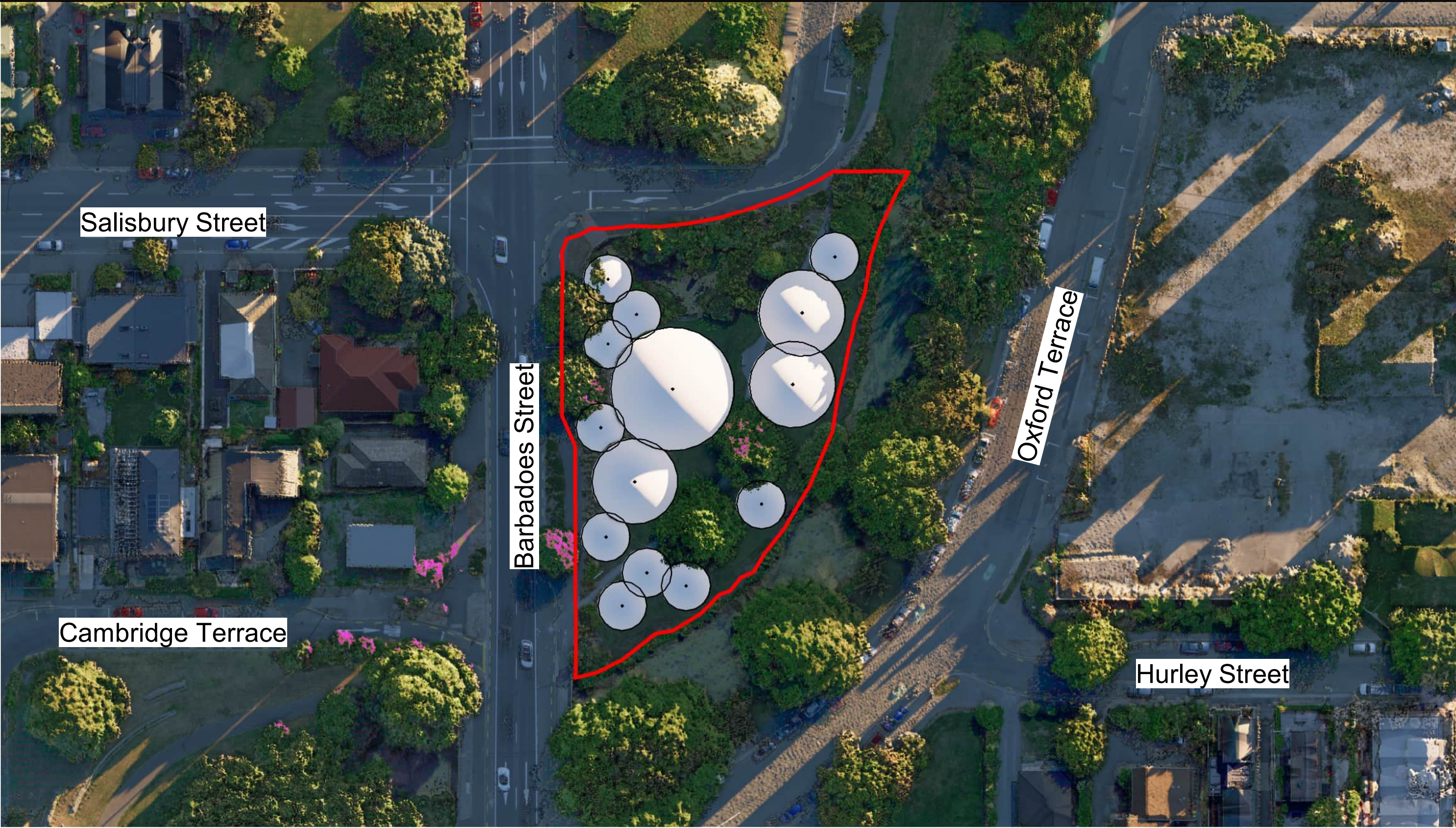
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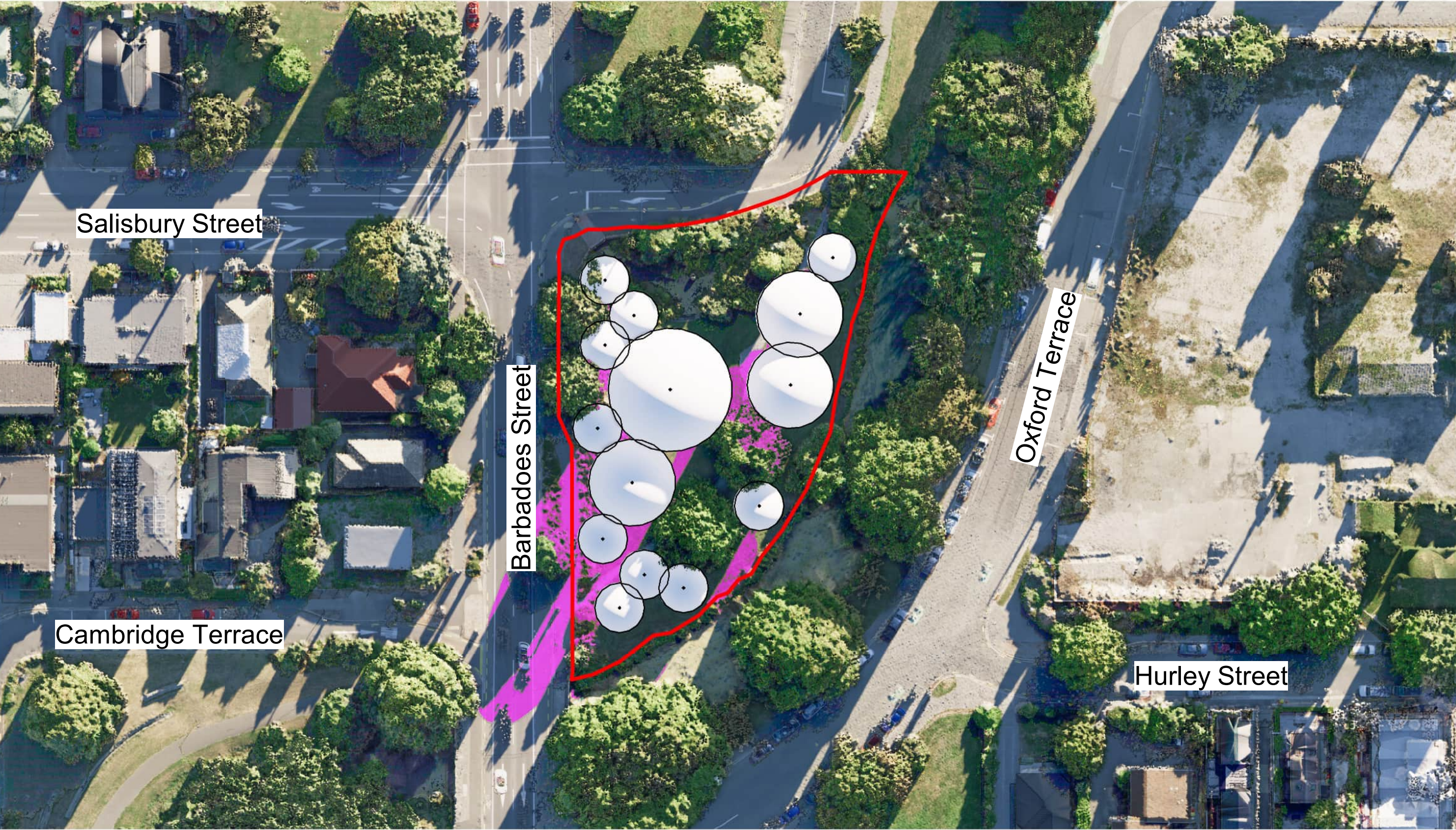
4 Summer - 6:00pm
Scale: 1 : 600



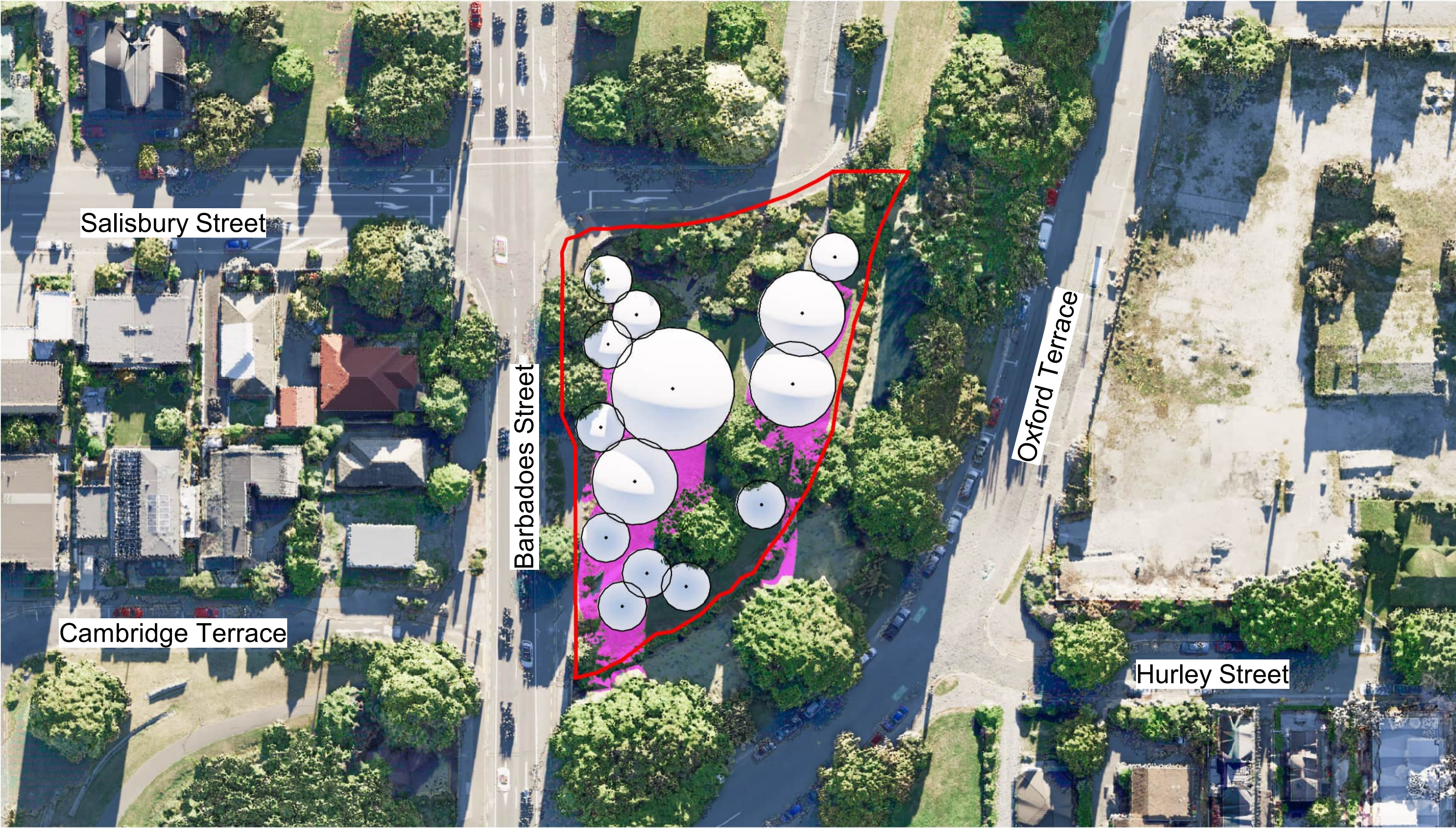
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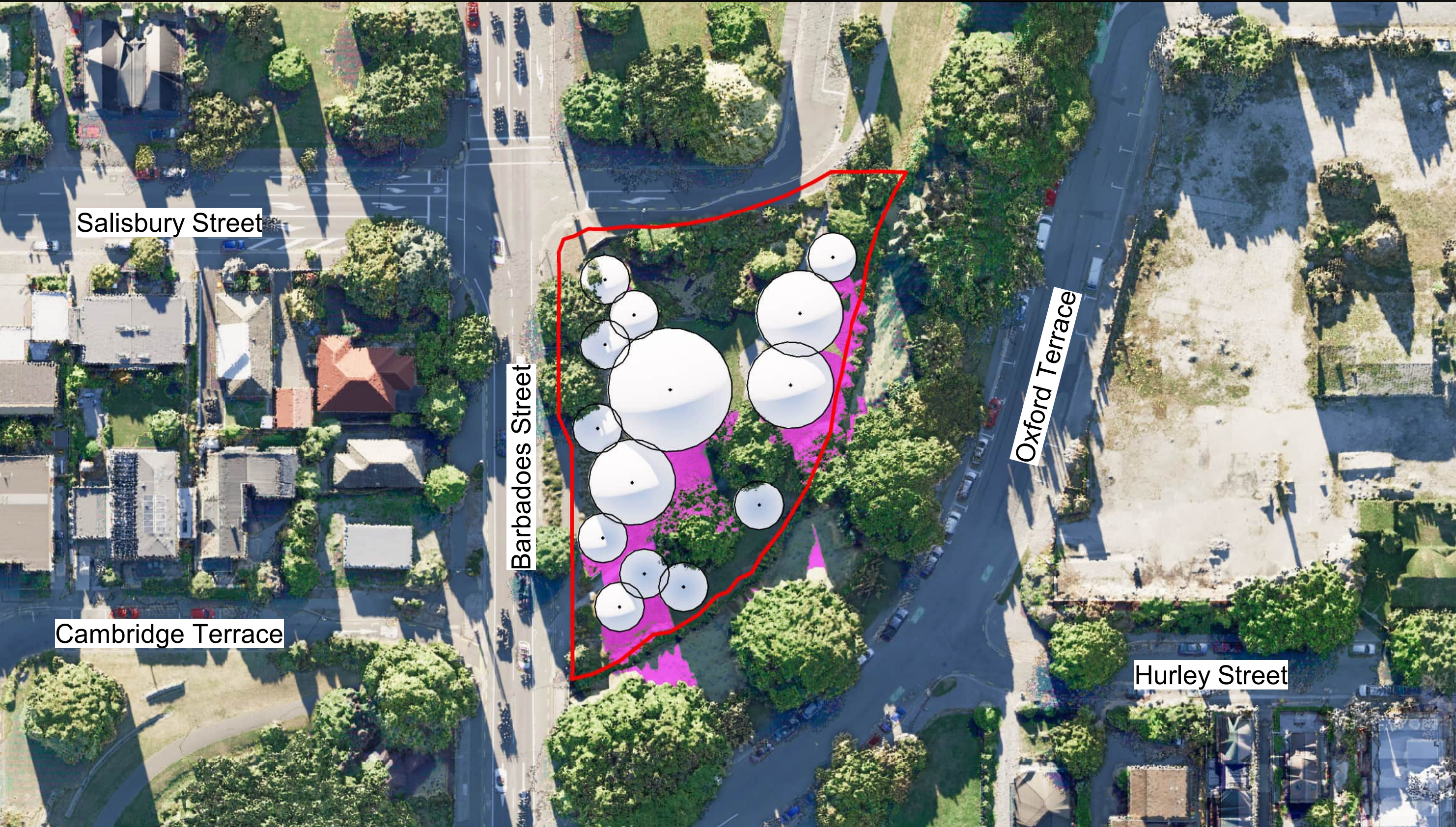
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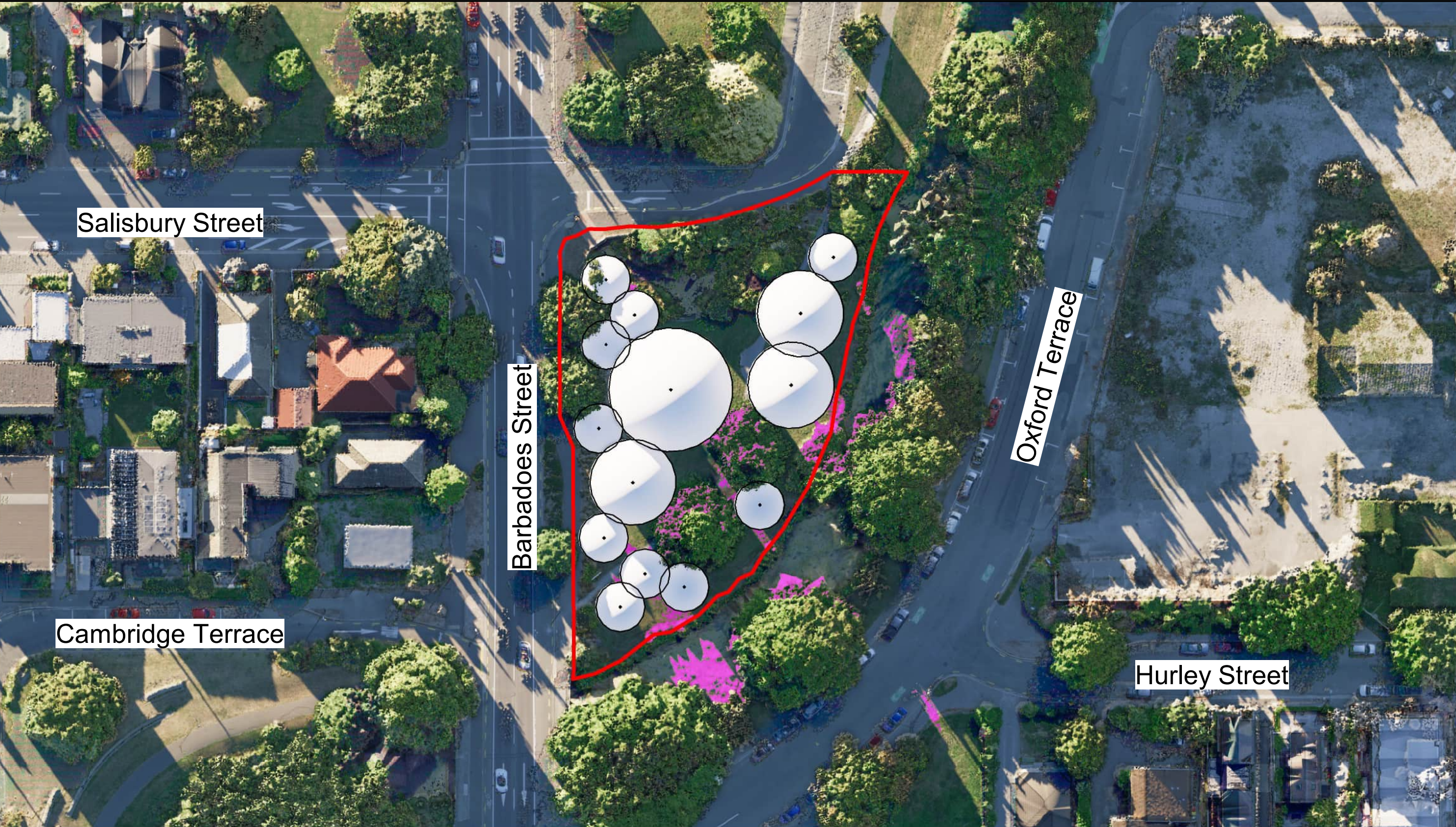
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4 Winter - 12:00pm
Scale: 1 : 600



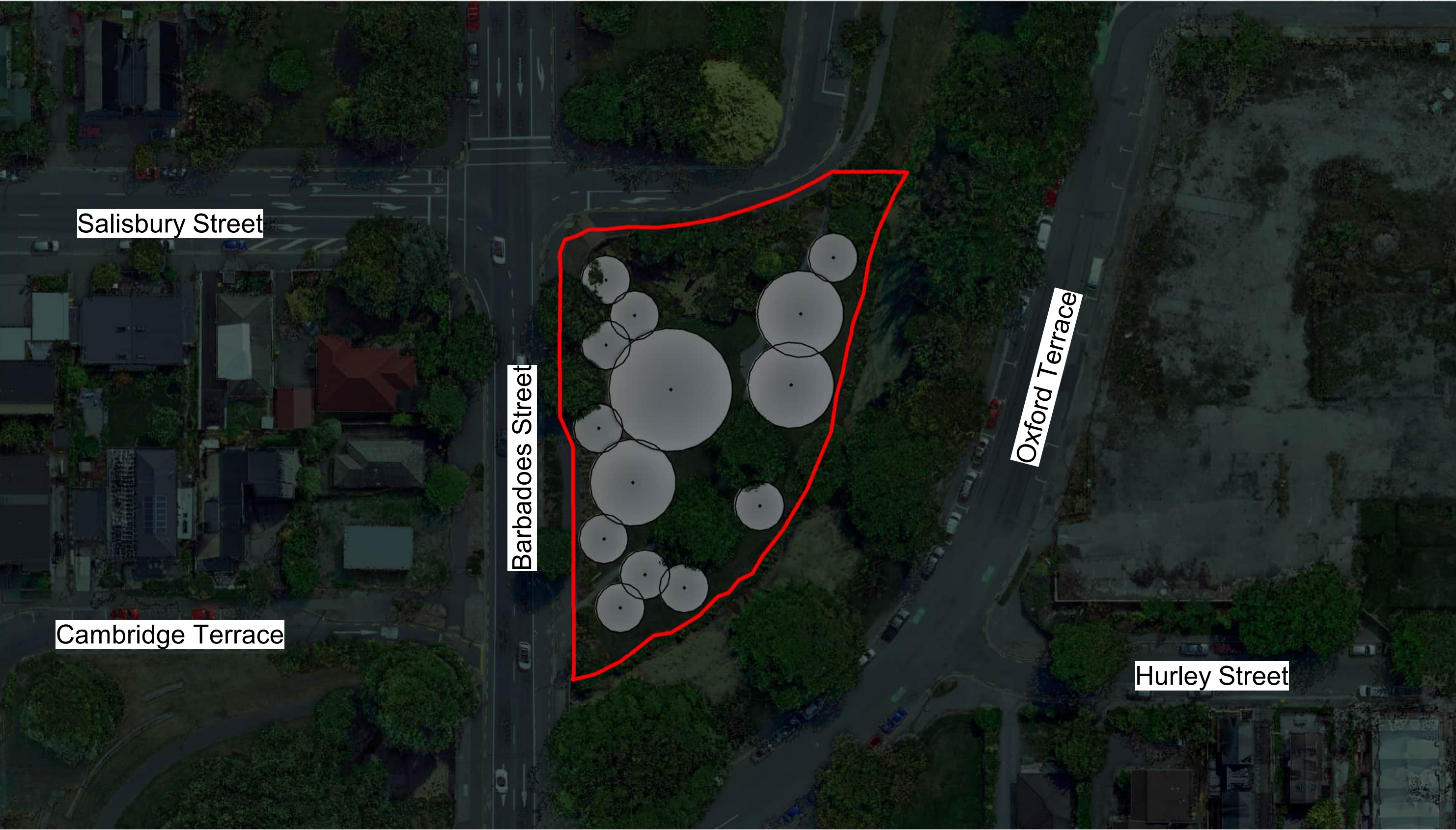
1 Winter - 1:30pm
Scale: 1 : 600



2 Winter - 3:00pm
Scale: 1 : 600



3 Winter - 4:30pm
Scale: 1 : 600



4 Winter - 6:00pm
Scale: 1 : 600



ORIGINAL IN COLOUR

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Existing Canopy Cover - 485.71 m² 17.1% Canopy coverage to existing site

Proposed Canopy Coverage - 1278.63 m² 45.1% Proposed canopy coverage

Total Canopy Coverage - 1764.34 m² 62.2% Total canopy coverage

PLANTING SCHEDULE

Qty	Type	Tree Height
1	Large Tree	Tree Height 15-20m
3	Medium Tree	Tree Height 10-15m
10	Small Tree	Tree Height 5-10m

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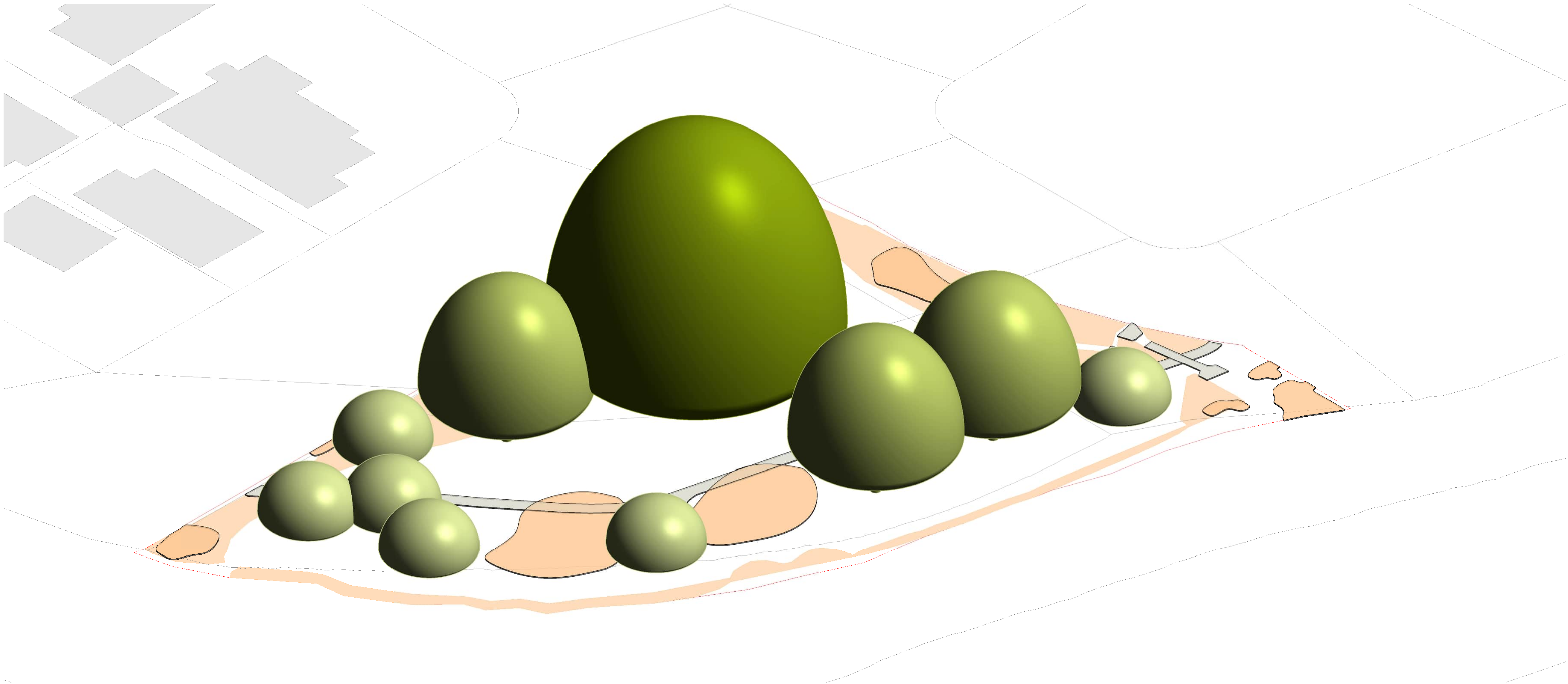
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REVISION

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SMALL TREES
2.1 TCO₂e
31%



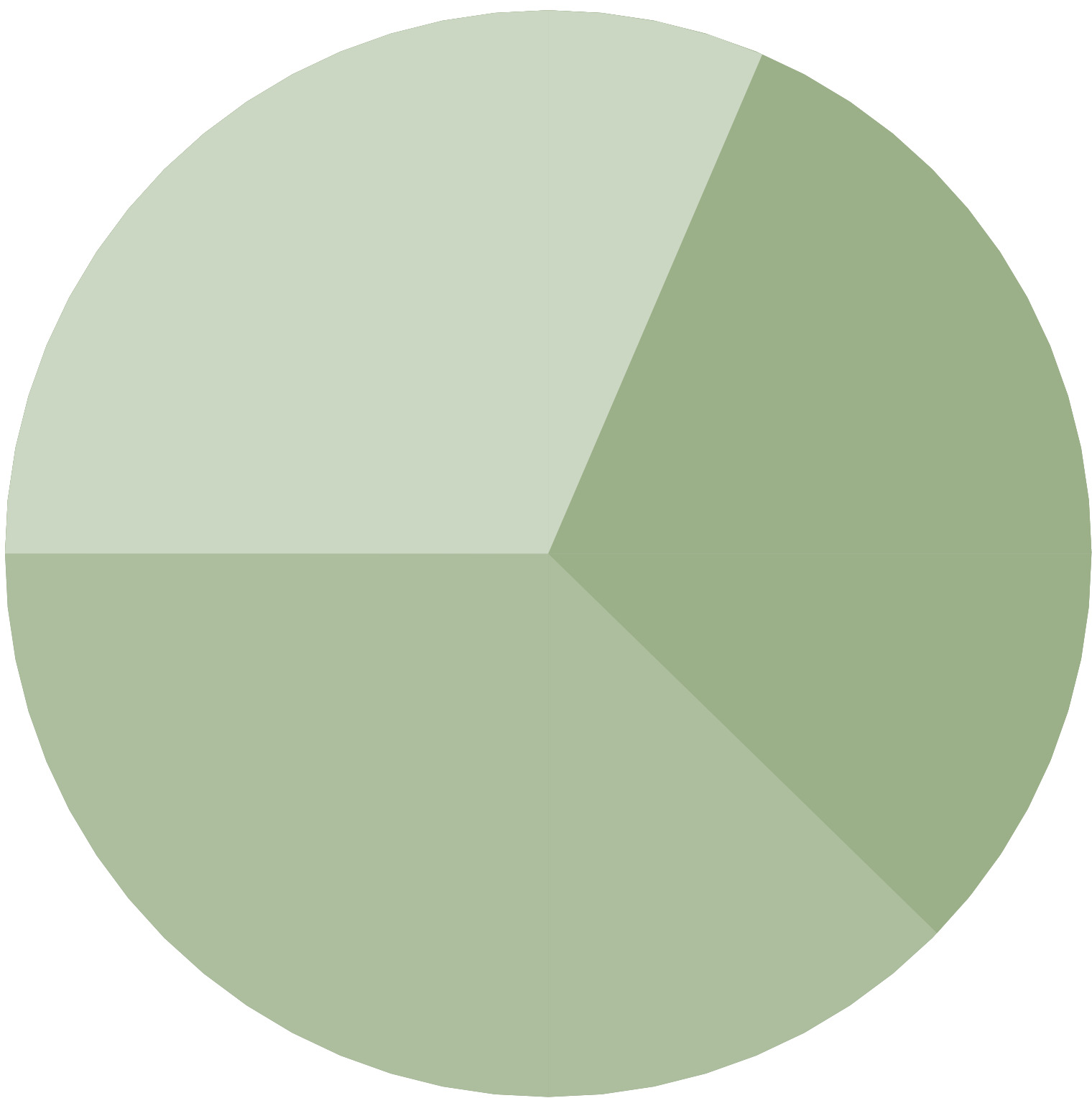
MEDIUM TREES
2.5 TCO₂e
38%



LARGE TREES
2.0 TCO₂e
31%



VERY LARGE TREES
0.0 TCO₂e
0%



THE BOFFA MISKELL ROUGH ORDER OF CARBON ESTIMATION TOOL (BOFFA ROCET) IS INTENDED FOR EARLY GUIDANCE AT THE CONCEPTUAL STAGES OF PROJECTS. IT IS NOT INTENDED TO PROVIDE DETAILED AUDITS / GLOBAL WARMING POTENTIAL DECLARATIONS.

WHILE THE BEST EFFORTS HAVE BEEN MADE TO ENSURE THE QUALITY OF ELEMENTAL AND MATERIAL CARBON RATES - THESE HAVE BEEN DRAWN FROM A VARIETY OF SOURCES (SEE THE BOFFA ROCKET INVENTORY) AND ARE GENERAL AS OPPOSED TO SPECIFIC.



7
Tonnes CO₂e Net
Sequestered after
50 years



That's the equivalent
of skipping

22



Car journeys along the
length of New Zealand