



Urban Forest Tree Planting Kahuku Park

PROJECT NUMBER:	BM240711	Concept Design
PROJECT ADDRESS:	142 The Runway, Wigram, Christchurch 8042	
CLIENT:	Christchurch City Council	
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REV	DATE	DESCRIPTION
A	17.01.2025	Concept Design

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LEGEND

Existing Canopy Cover

Existing Lower Vegetation

Existing Pathways and Features

Existing Playspace

Vegetation cover mapped based on CCC aerial photography dated 18 January 2024, with site visit to verify existing conditions.

Existing Specimen Trees - 29

Existing Canopy Cover - 109.63 m²

5.5% Canopy coverage to existing site

0m2m4m6m

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APrHCo

Urban Forest Tree Planting
Kahuku Park

Existing Site

DesignHCo

DrawnARo

CheckGRO

Scale1:200 @ A1
1:400 @ A3

Date17.01.2025

CONCEPT DESIGN

DRAWING NO. BM240711_200

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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

0m

2m

4m

6m

REV DATE

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Kahuku Park

Tree Height Capacities

Design

HCo

Scale

1:200 @ A1

Date

17.01.2025

Drawn

ARo

Check

GRo

1:400 @ A3

CONCEPT DESIGN

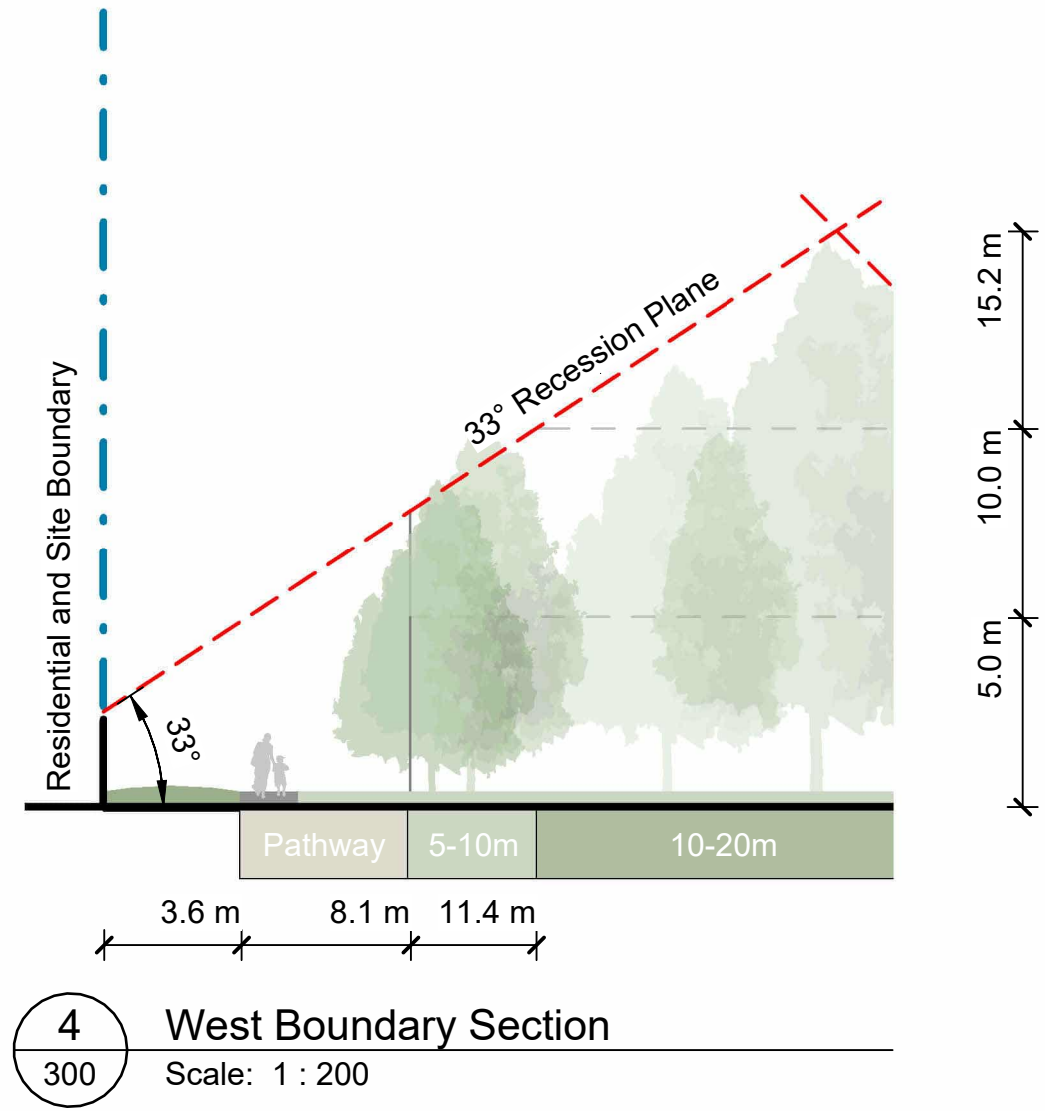
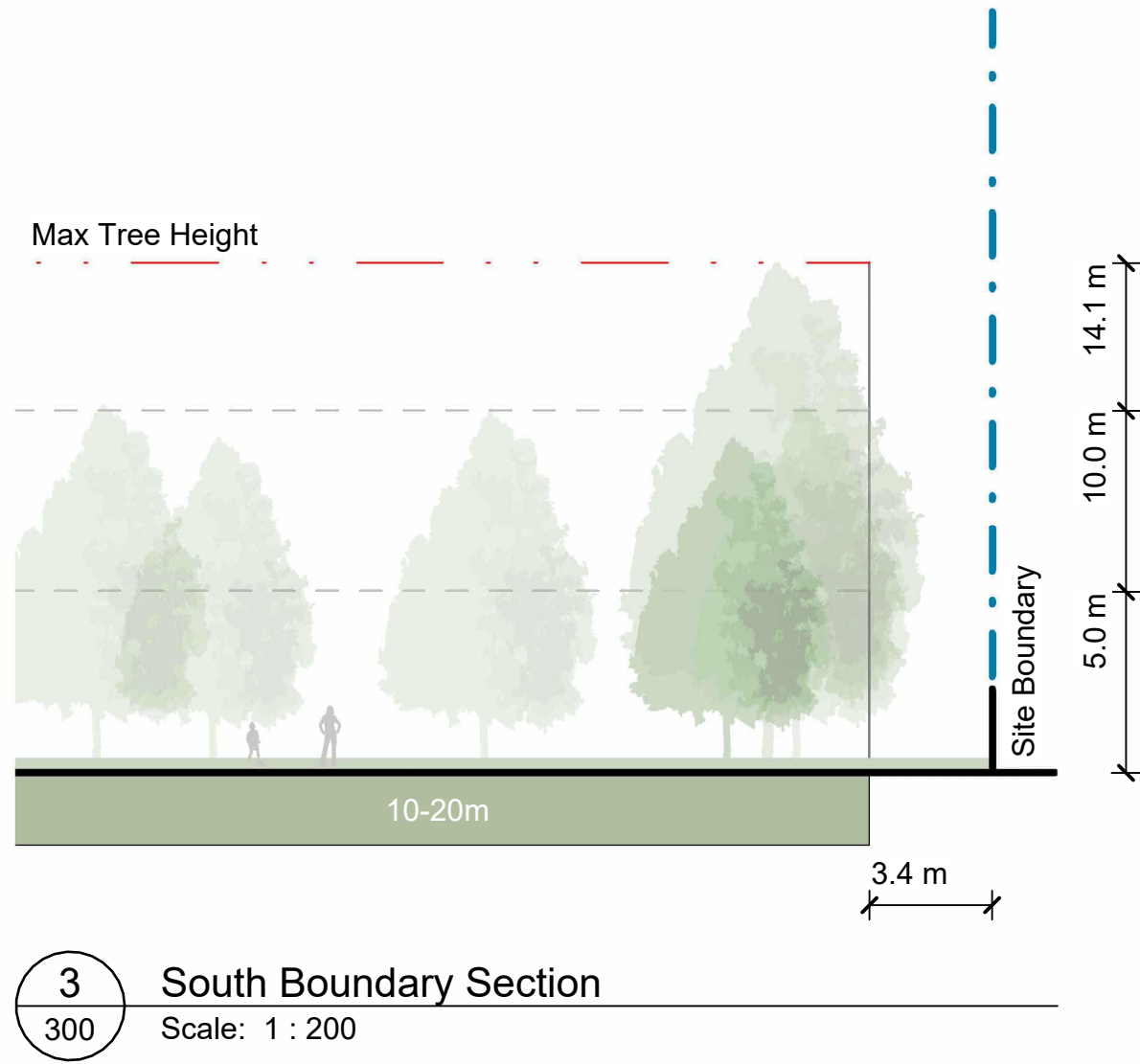
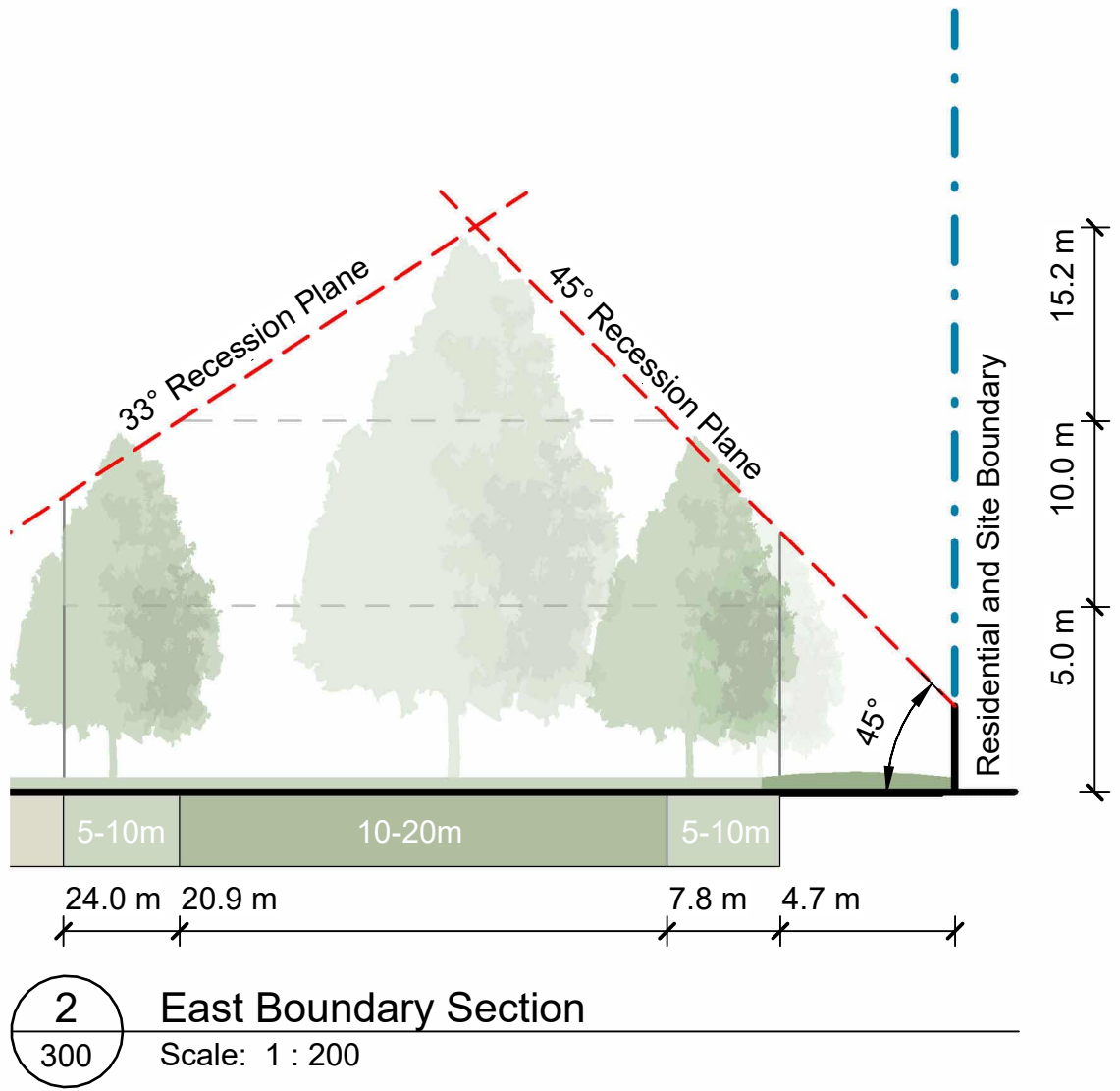
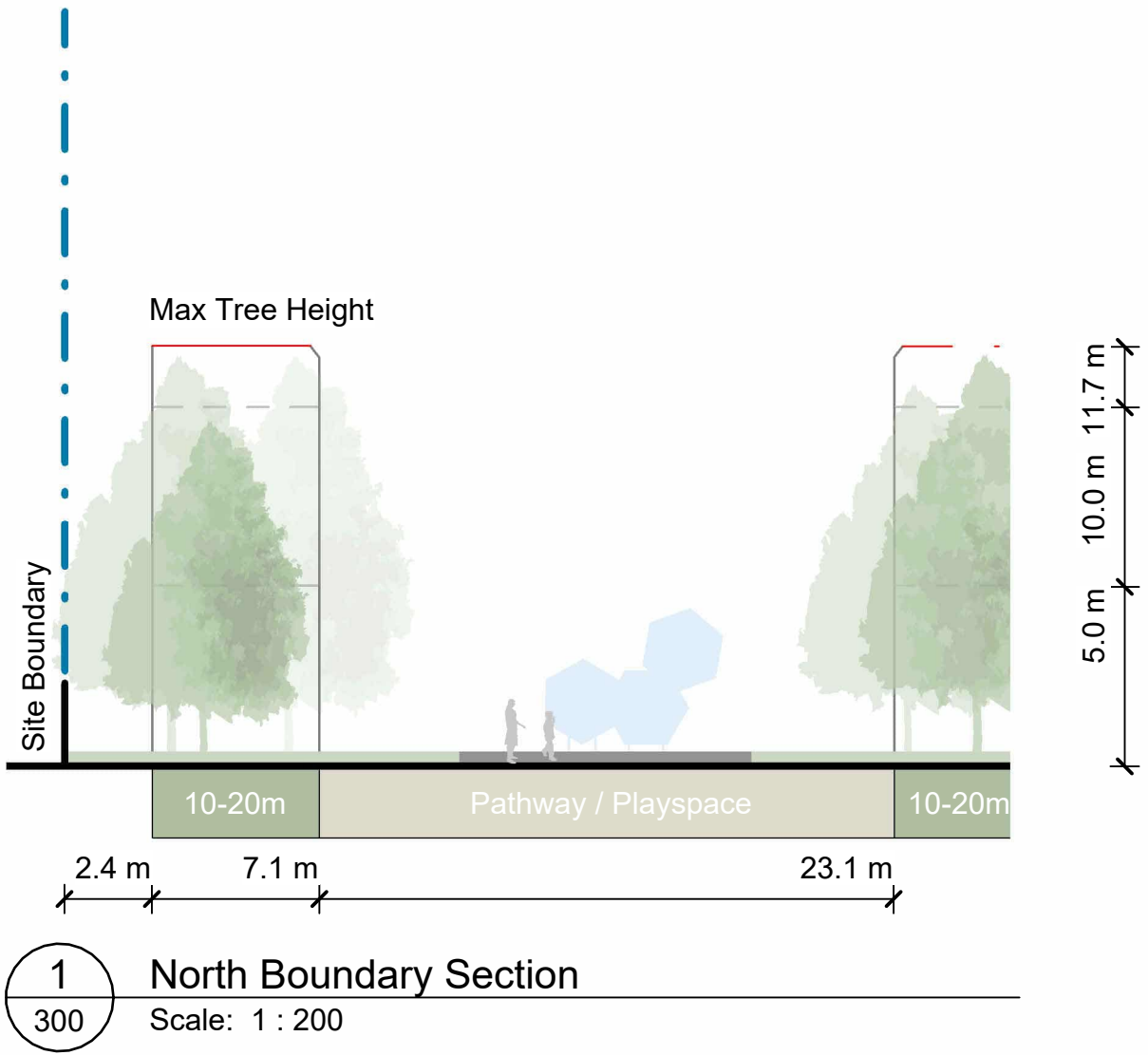
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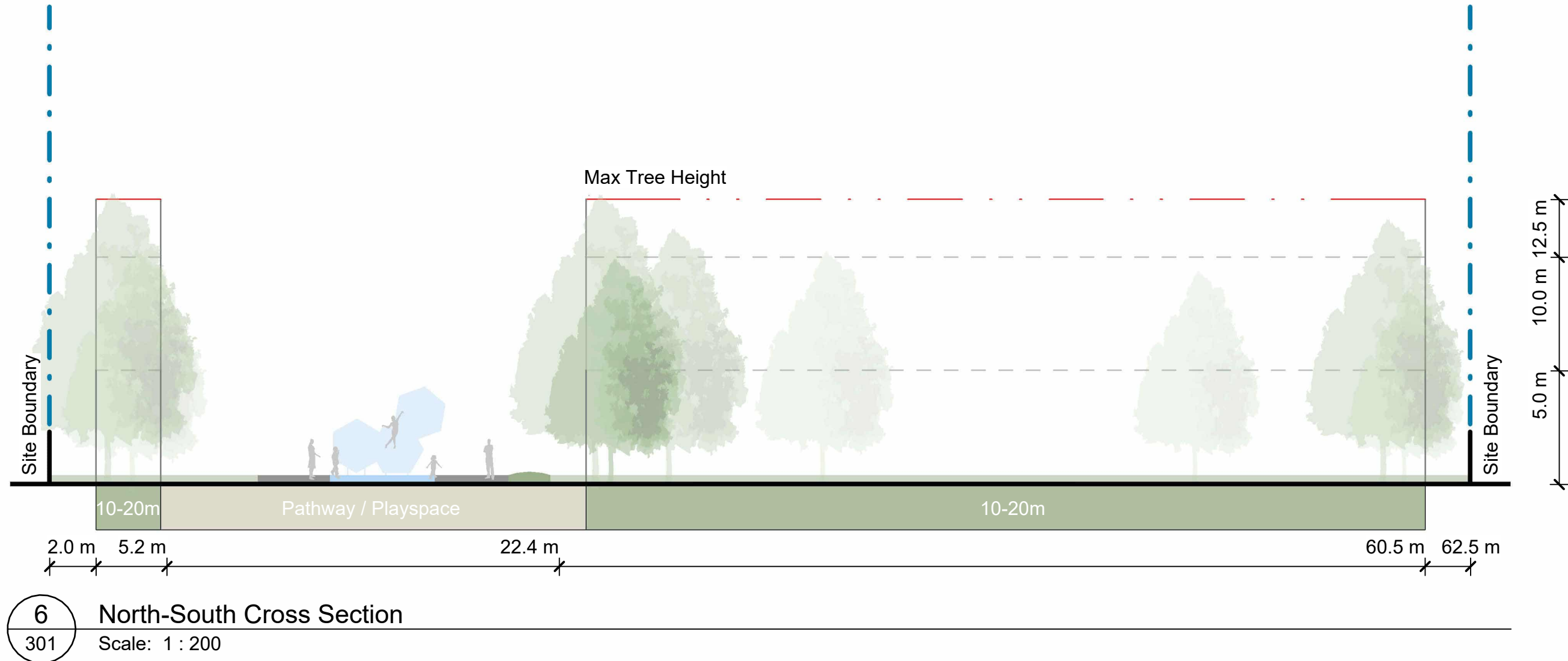
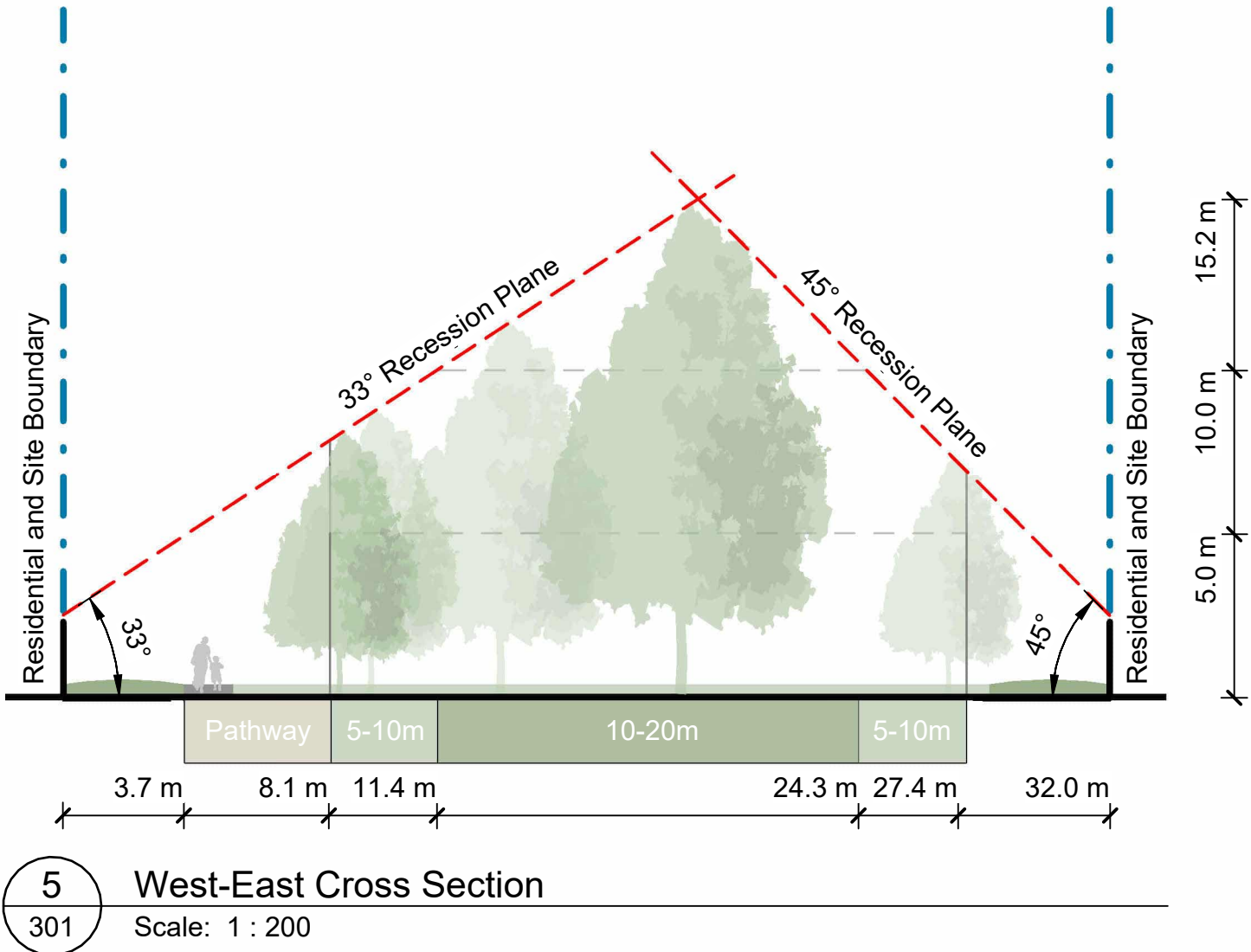
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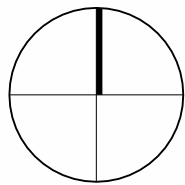




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A	17.01.2025	Concept Design

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Urban Forest Tree Planting
Kahuku Park

Cross Section Studies of Potential Tree
Heights

Design	HCo	Scale	Date
Drawn	ARo	As Shown	17.01.2025
Check	GRo		

Concept Design

DRAWING NO.
BM240711_301

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1 Summer - 7:30am
Scale: 1 : 1000



2 Summer - 9:00am
Scale: 1 : 1000



3 Summer - 10:30am
Scale: 1 : 1000



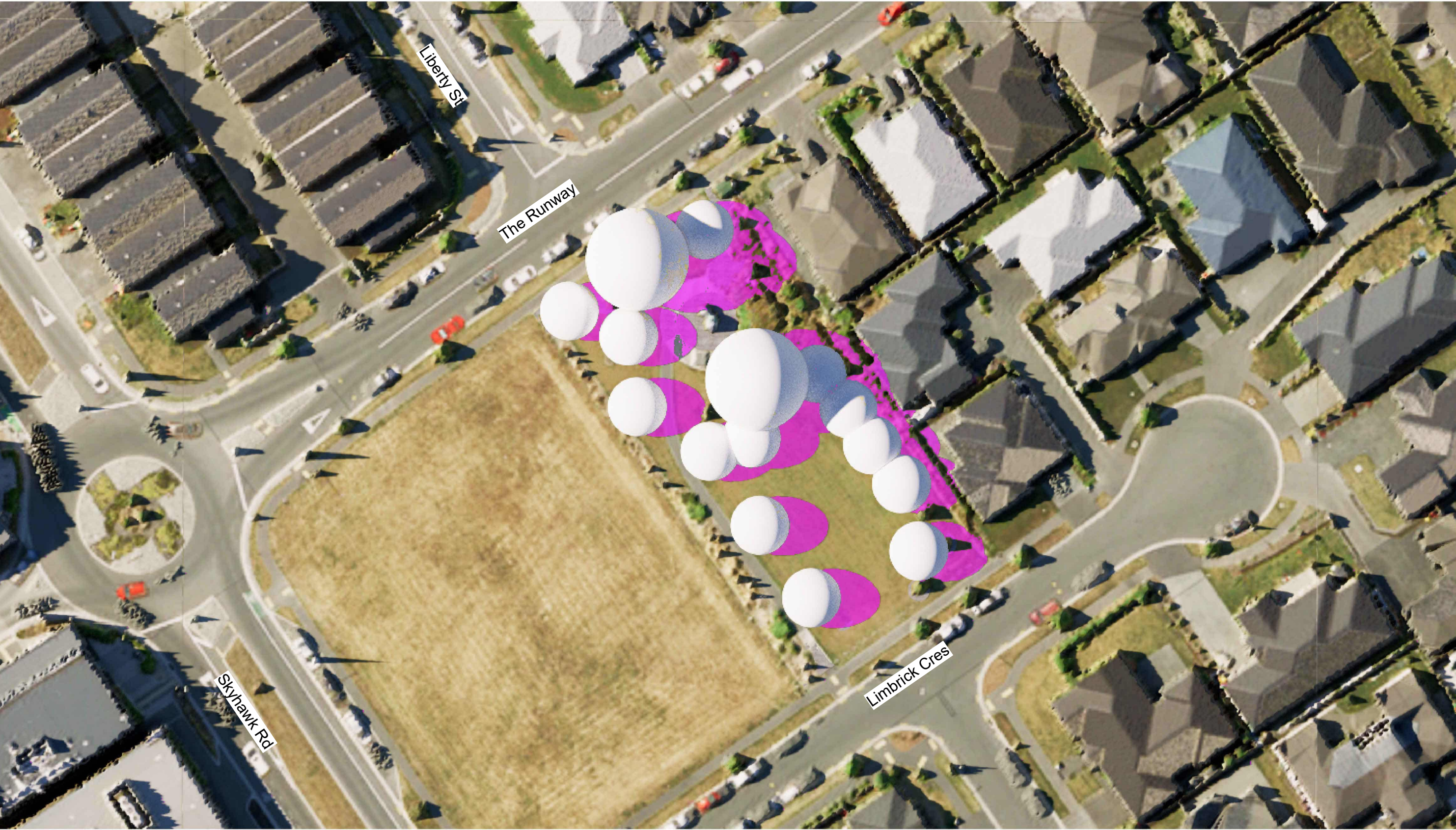
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Scale: 1 : 1000



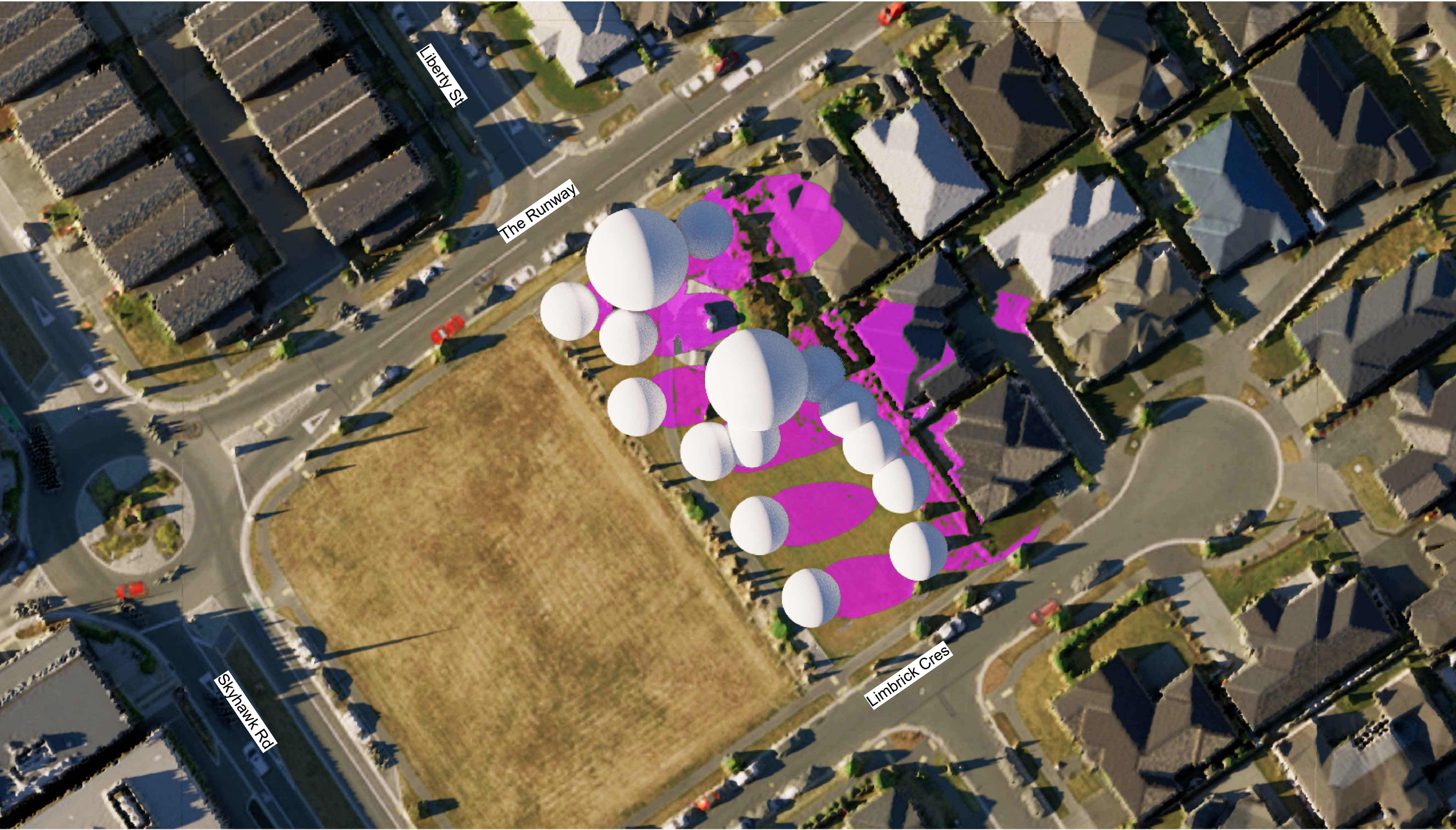
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Scale: 1 : 1000



2 Summer - 3:00pm
Scale: 1 : 1000



3 Summer - 4:30pm
Scale: 1 : 1000



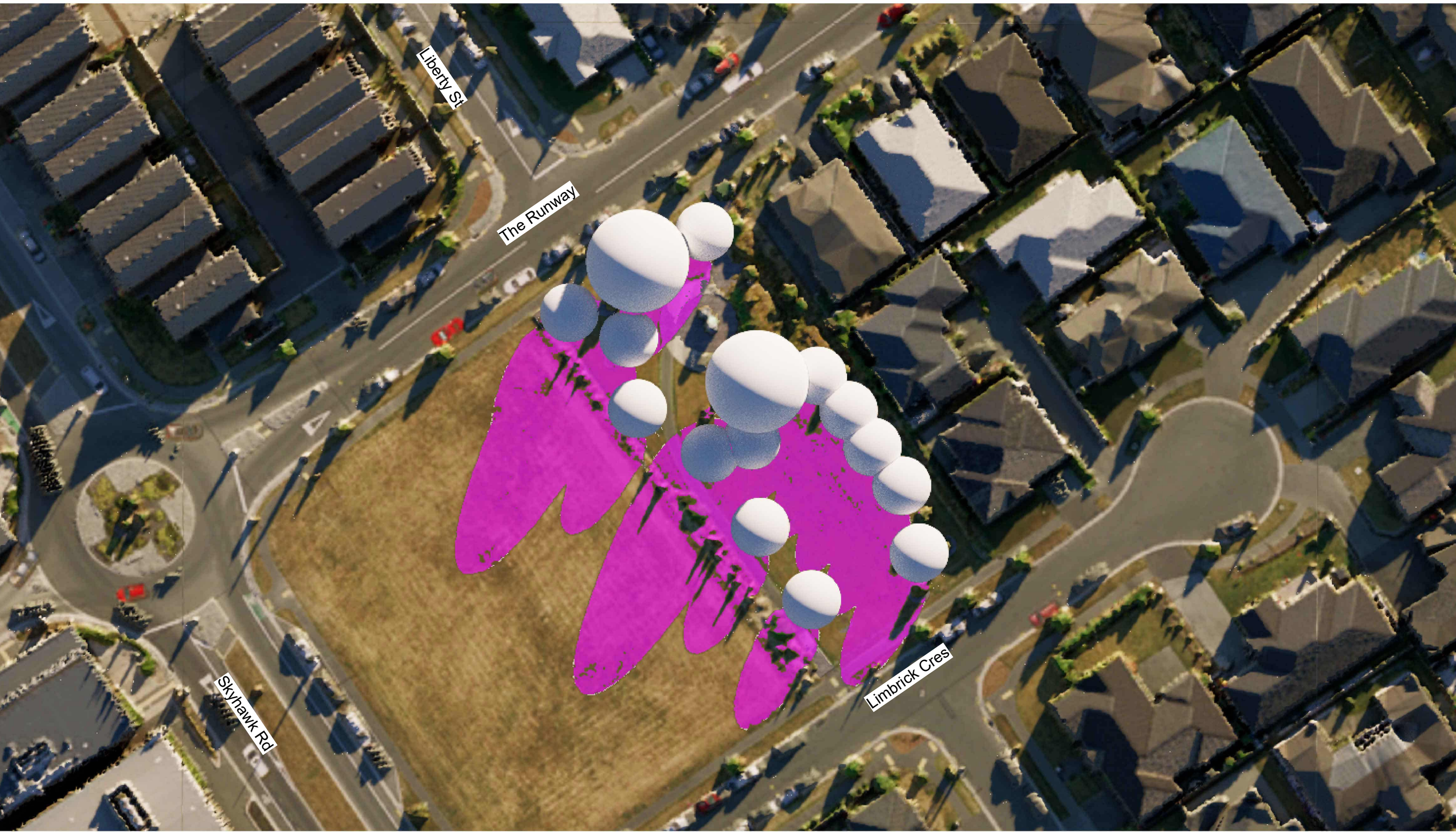
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Scale: 1 : 1000



1 Winter - 7:30am
Scale: 1 : 1000



2 Winter - 9:00am
Scale: 1 : 1000



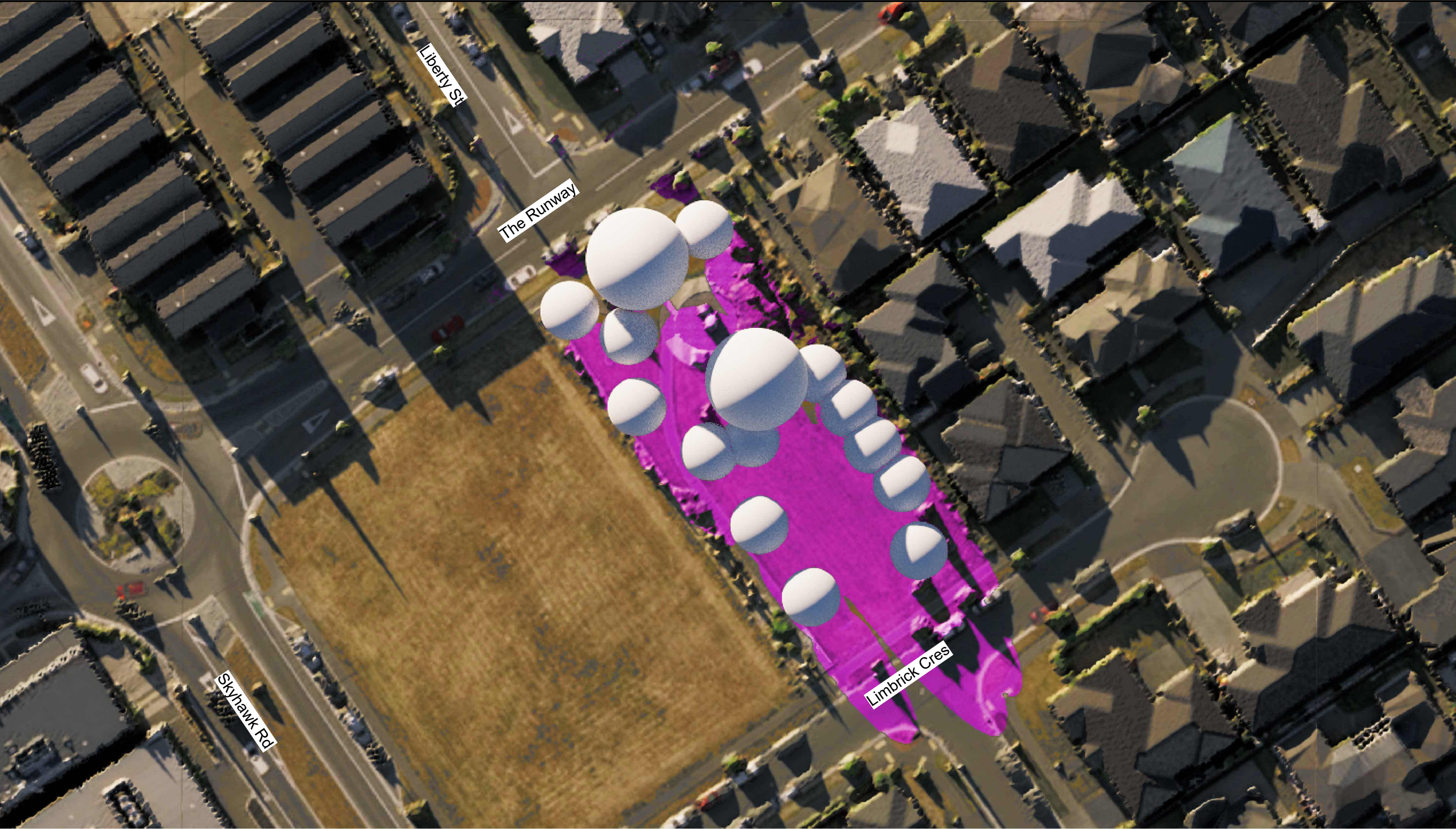
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4 Winter - 12:00pm
Scale: 1 : 1000



1 Winter - 1:30pm
Scale: 1 : 1000



2 Winter - 3:00pm
Scale: 1 : 1000



3 Winter - 4:30pm
Scale: 1 : 1000



4 Winter - 6:00pm
Scale: 1 : 1000

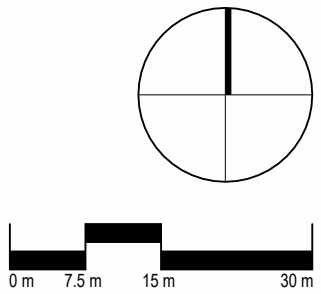
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LEGEND

- Proposed Shading
- Existing Shading



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HCo

Urban Forest Tree Planting
Kahuku Park

Shading Study - Winter - Afternoon

Design	HCo	Scale	Date
Drawn	ARo	1:750 @ A1	17.01.2025
Check	GRo	1:1500 @ A3	

Concept Design	
DRAWING NO.	REVISION
BM240711_403	A

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Existing Canopy Cover	-	109.63 m ²	5.5%	Canopy coverage to existing site
Proposed Canopy Coverage	-	961.33 m ²	48.2%	Proposed canopy coverage
Total Canopy Coverage	-	1070.96m²	53.7%	Total canopy coverage

Qty	Type	Tree Height
2	Medium Tree	Tree Height 10-15m
13	Small Tree	Tree Height 5-10m
29	Existing Trees	

0m 2m 4m 6m

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**Urban Forest Tree Planting
Kahuku Park**

Planting Plan

Design	HCo	Scale	Date
Drawn	ARo	1:200 @ A1	17.01.2025
Check	GRo	1:400 @ A3	

Concept Design

DRAWING NO.

BM240711_500

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