



Urban Forest Tree Planting Heathcote Esplanade Reserve

PROJECT NUMBER:

BM240711

Concept Design

PROJECT ADDRESS:

35 Euphrasie Drive,
Aidanfield,
Christchurch 8025

CLIENT:

Christchurch City Council

CLIENT ADDRESS:

53 Hereford Street
Christchurch Central
Christchurch 8013
New Zealand

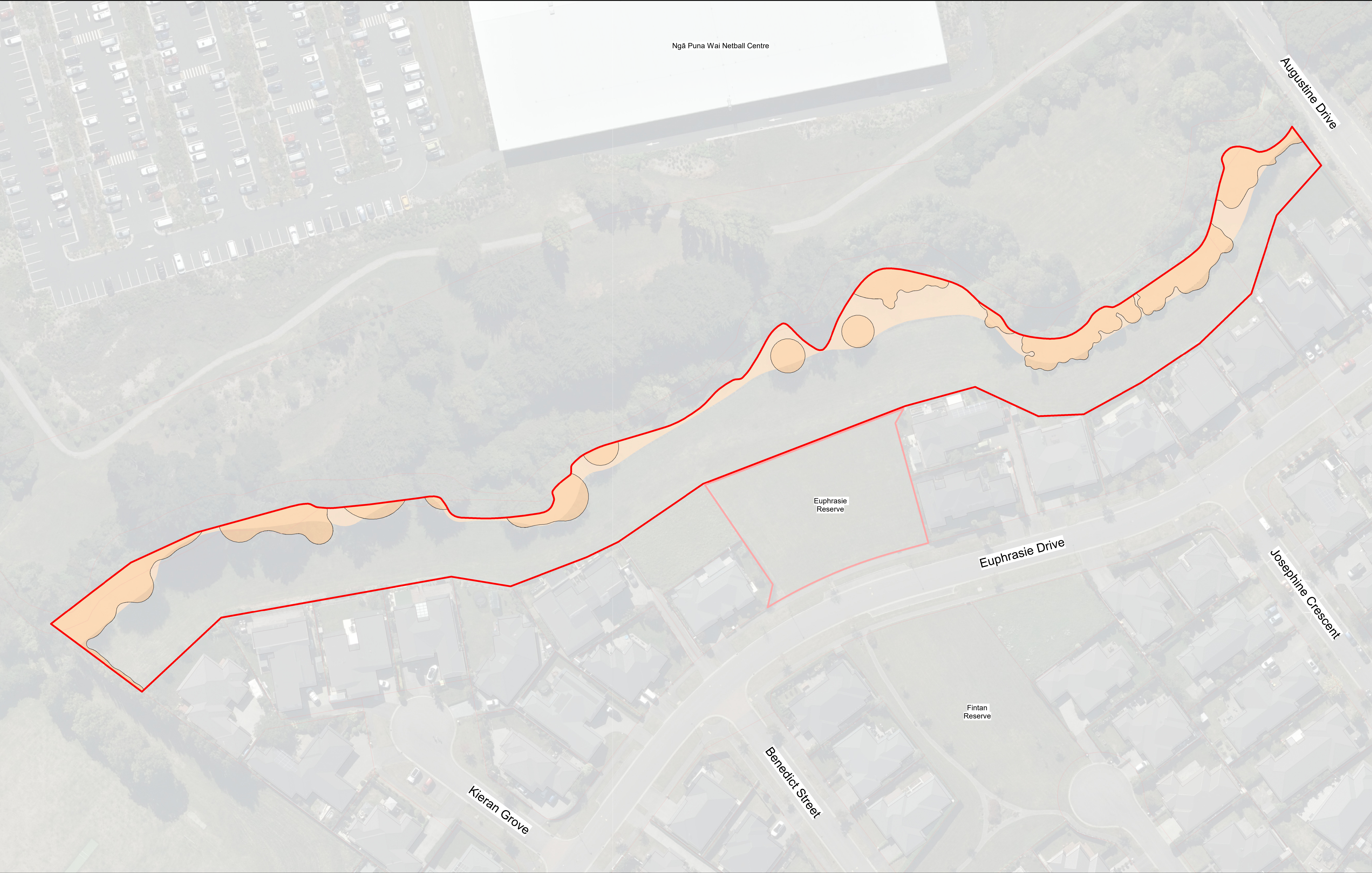


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REV	DATE	DESCRIPTION
A	12.12.2025	Concept Design Draft

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ORIGINAL IN COLOUR

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LEGEND

Existing Canopy Cover

Existing Lower Vegetation

Vegetation cover mapped based on CCC aerial photography dated September 2025, with site visit to verify existing conditions.

Existing Specimen Trees - 55

Existing Canopy Cover - 1910.50 m²

19.2% Canopy coverage to existing site

REV

DATE

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DESCRIPTION

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0 m

5 m

10 m

20 m

0

90

APR

HCO

Urban Forest Tree Planting

Heathcote Esplanade Reserve

Existing Site - Heathcote Esplanade Reserve

Design

Drawn

Check

ARo

ARo

HCO

Scale

1:500 @ A1

1:1000 @ A3

Date

12.12.2025

CONCEPT DESIGN

DRAWING NO.

BM240711_200

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ORIGINAL IN COLOUR

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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

REV

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DESCRIPTION

Concept Design Draft

0 m

5 m

10 m

20 m

APR

HCO

Urban Forest Tree Planting

Heathcote Esplanade Reserve

Tree Height Capacities - Heathcote Esplanade Reserve

Design

Drawn

Check

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ARo

HCo

Scale

1:500 @ A1

1:1000 @ A3

Date

12.12.2025

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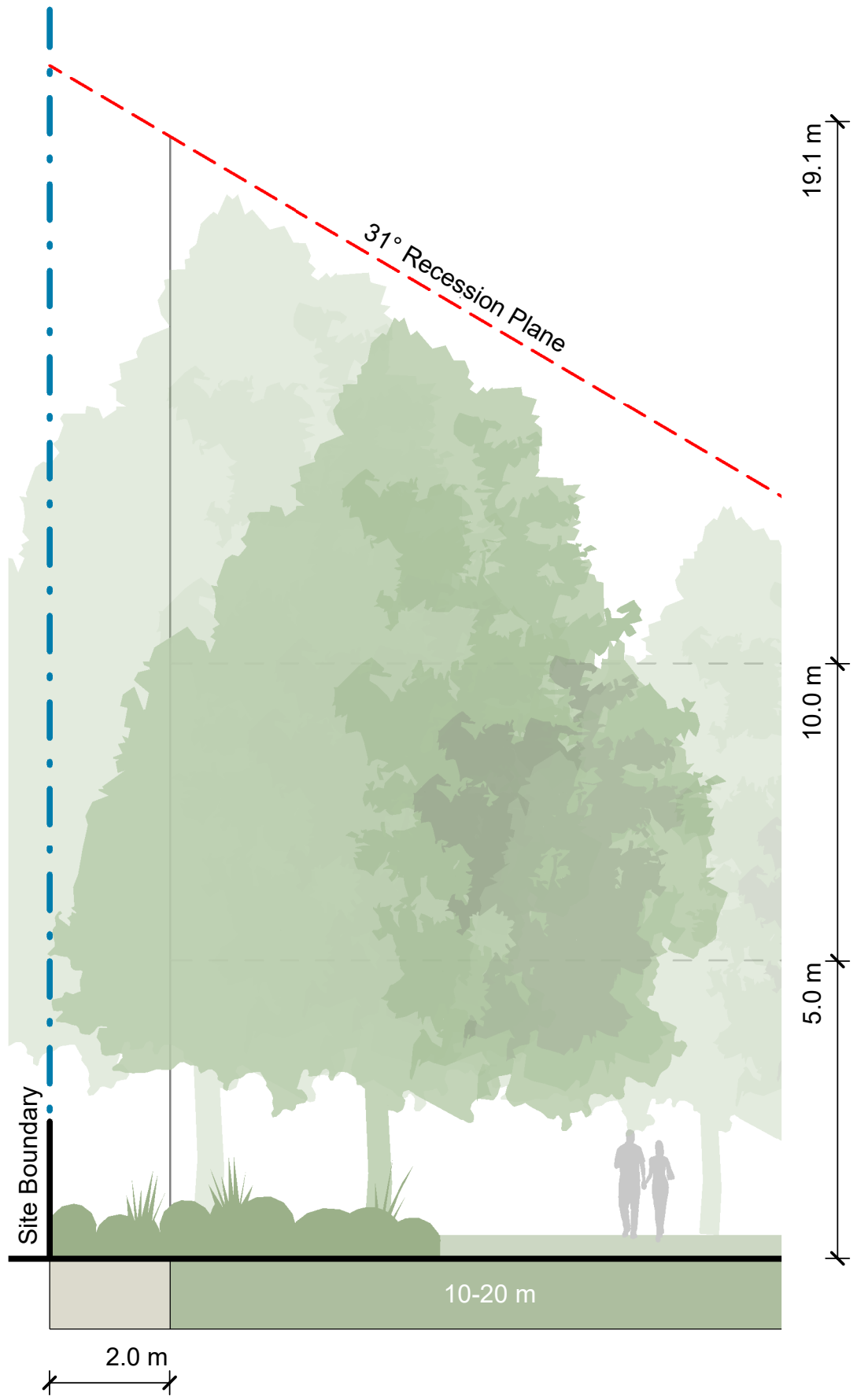
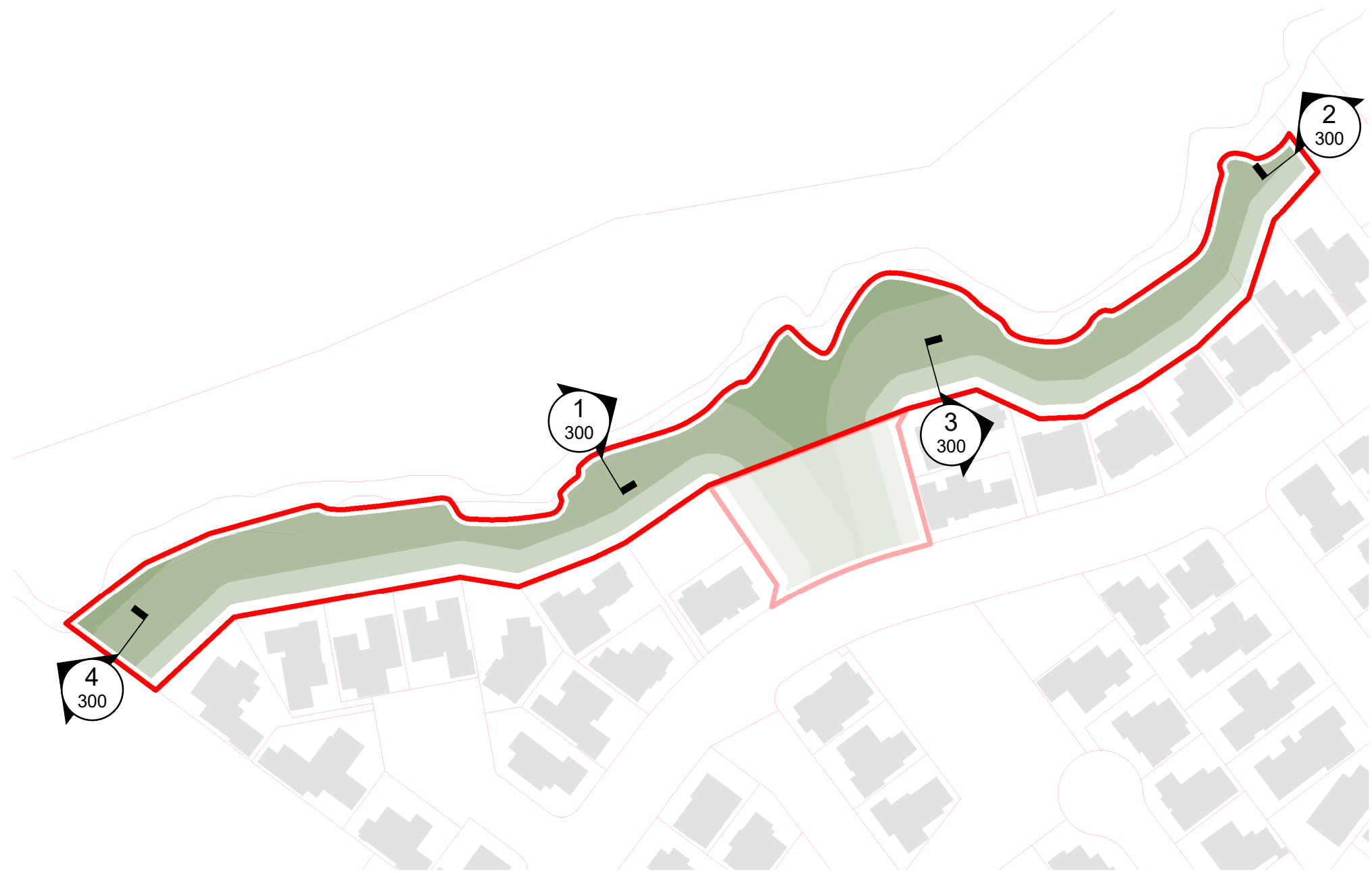
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BM240711_210

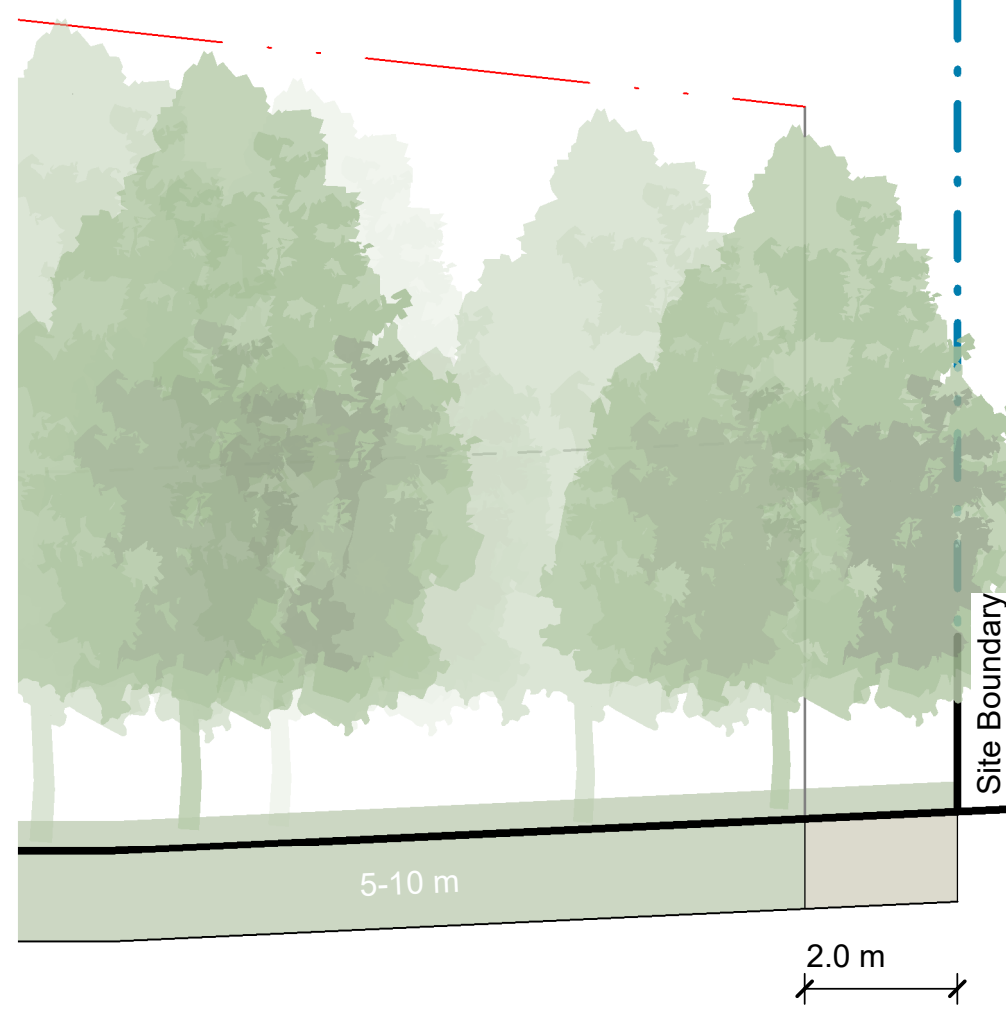
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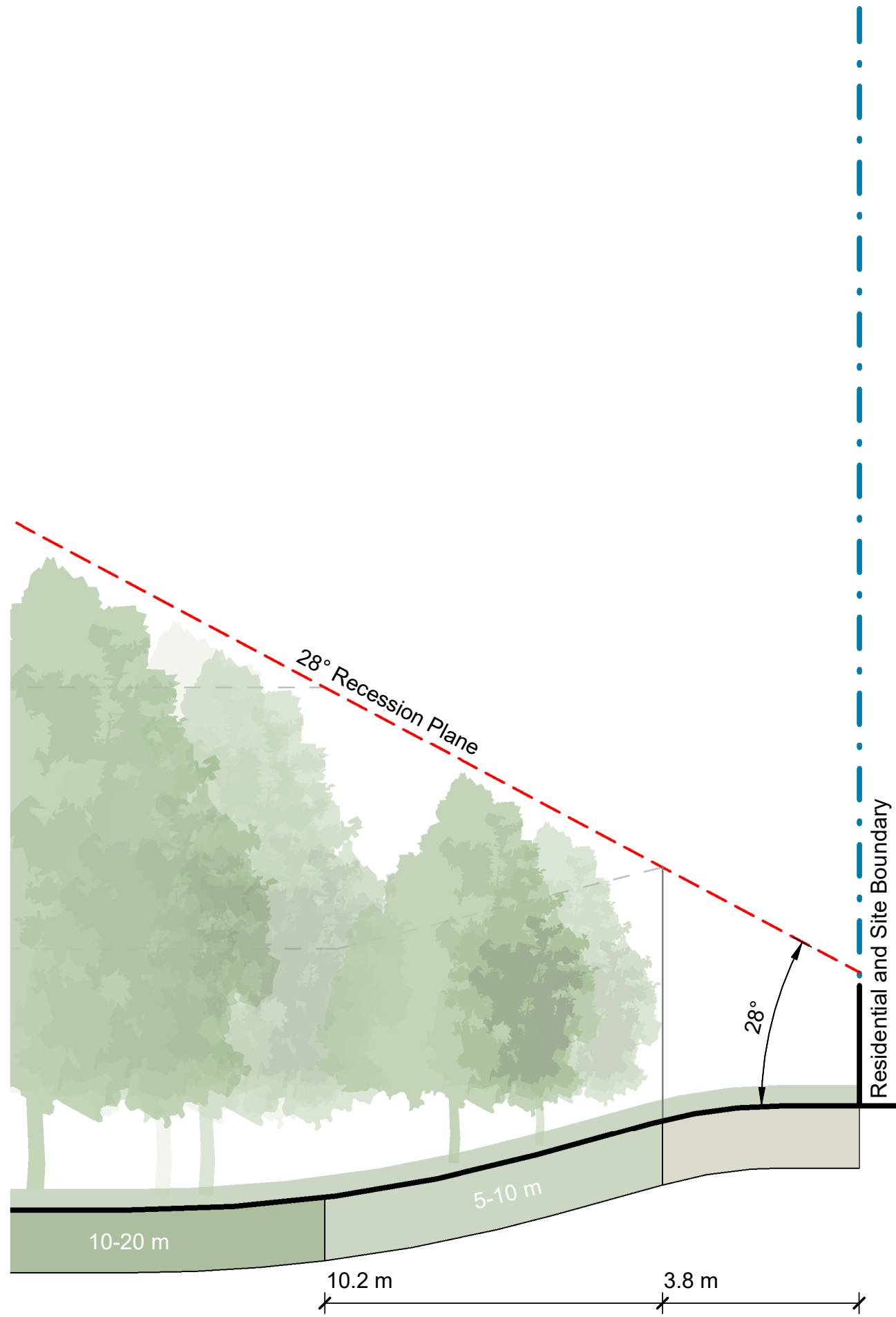
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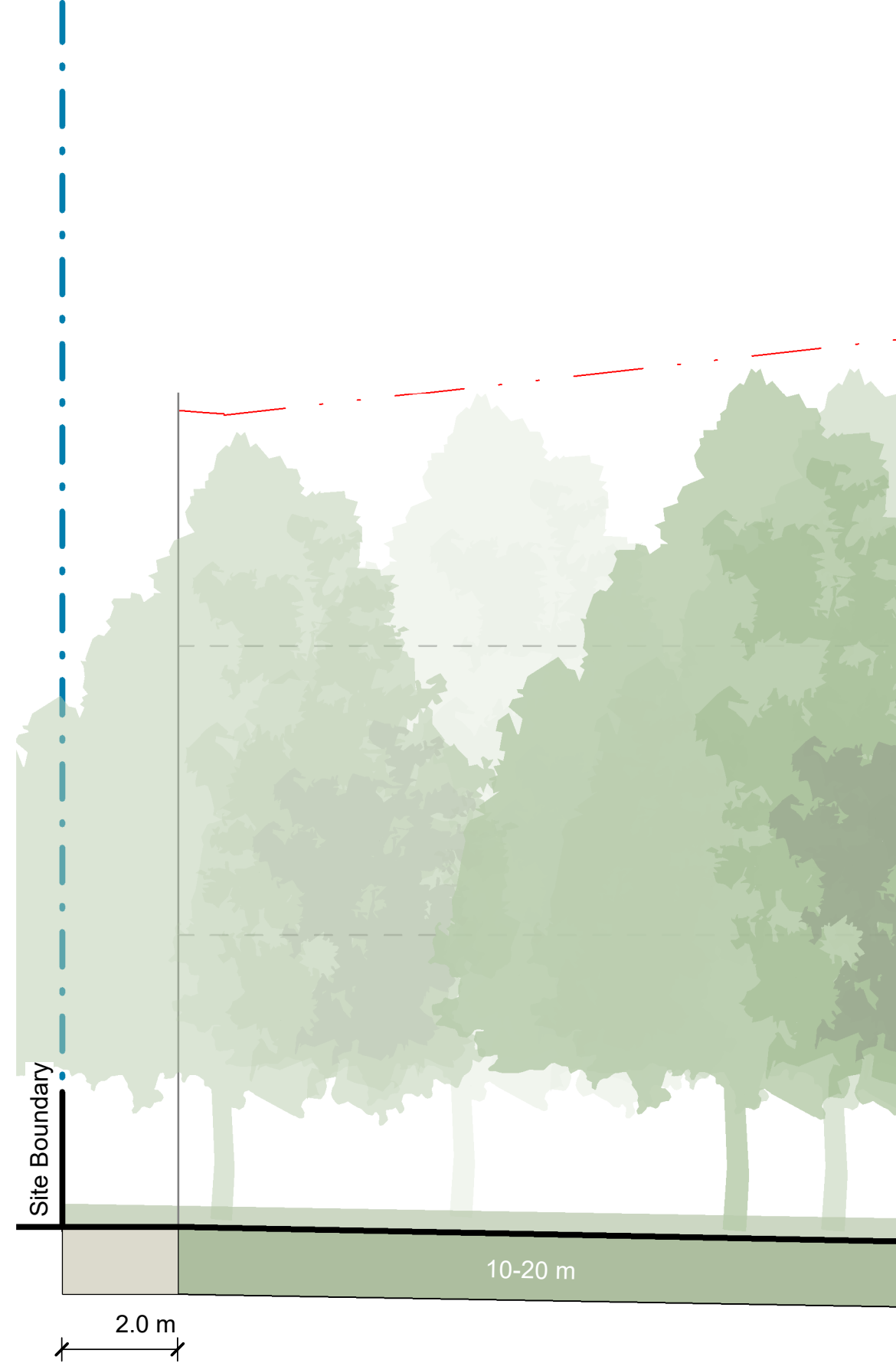
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Scale: 1 : 100



2 East Boundary Section - Heathcote
Scale: 1 : 100



3 South Boundary Section - Heathcote
Scale: 1 : 100



4 West Boundary Section - Heathcote
Scale: 1 : 100

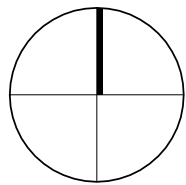
ORIGINAL IN COLOUR



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Note:

Sections identify maximum acceptable proposed tree height and density.
Existing vegetation not shown.
Refer Planting Plans for proposed tree locations.



REV	DATE	DESCRIPTION
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Urban Forest Tree Planting
Heathcote Esplanade
Reserve

Cross Section Studies of Potential Tree
Heights - Heathcote Esplanade Reserve

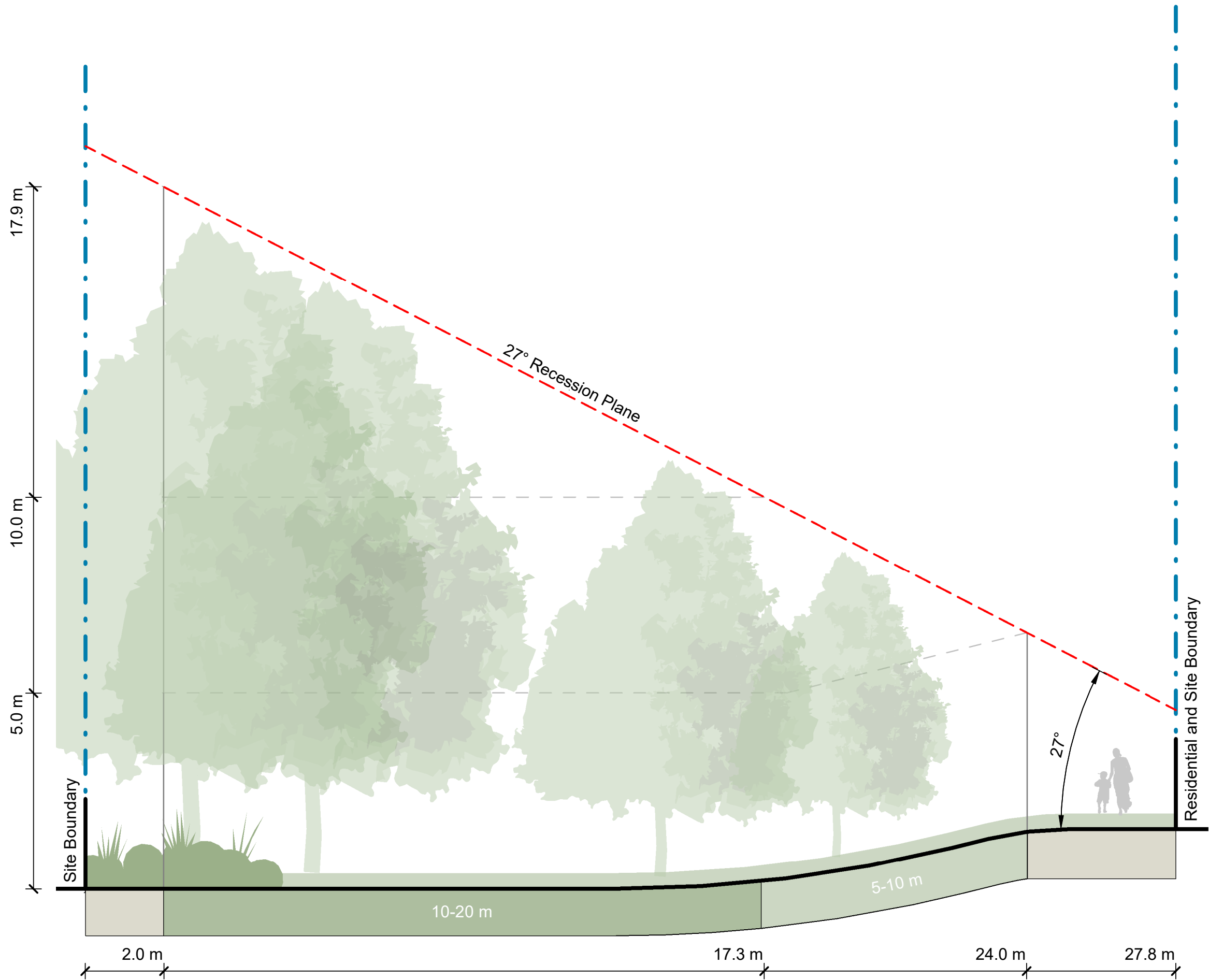
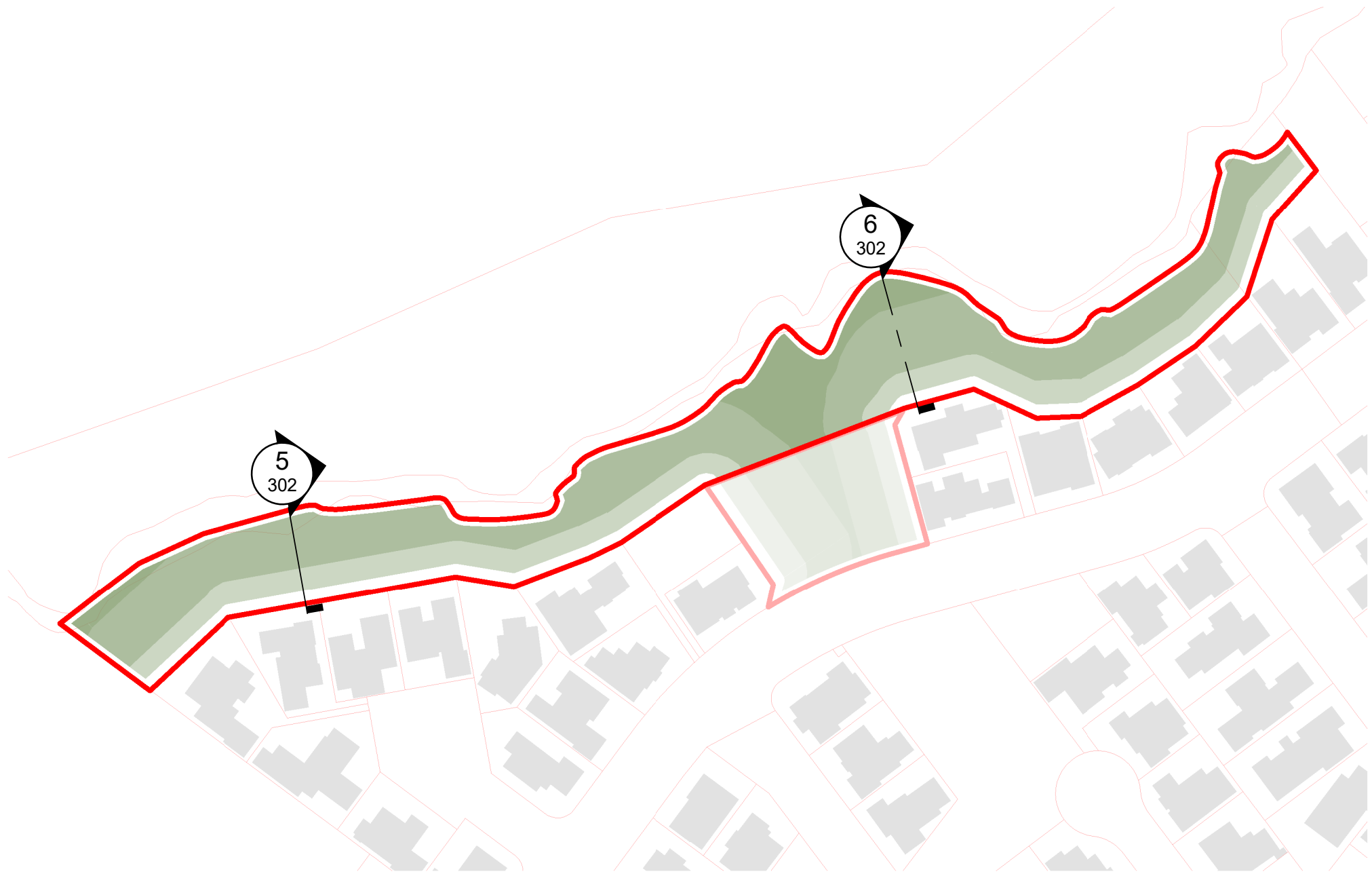
Design	ARo	Scale	Date
Drawn	ARo	As Shown	12.12.2025
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Concept Design

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BM240711_300

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5 North-South Cross Section 1 - Heathcote
Scale: 1 : 100

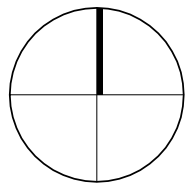


6 North-South Cross Section 2 - Heathcote
Scale: 1 : 100

ORIGINAL IN COLOUR



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Urban Forest Tree Planting Heathcote Esplanade Reserve

Cross Section Studies of Potential Tree
Heights - Heathcote Esplanade Reserve

Design	ARo	Scale	Date
Drawn	ARo	As Shown	12.12.2025
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BM240711_302	A



ORIGINAL IN COLOUR

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Existing Canopy Cover - 1910.50 m² 19.2% Canopy coverage to existing site

Proposed Canopy Coverage - 5620.31 m² 56.5% Proposed canopy coverage

Total Canopy Coverage - 7530.81 m² 75.5% Total canopy coverage

LEGEND

Existing Canopy Cover

Existing Lower Vegetation

PLANTING SCHEDULE

Qty	Type	Tree Height
2	Large Tree	Tree Height 15-20m
21	Medium Tree	Tree Height 10-15m
35	Small Tree	Tree Height 5-10m
55	Existing Trees	

0m 5m 10m 20m

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Urban Forest Tree Planting
Heathcote Esplanade Reserve

Planting Plan - Heathcote Esplanade Reserve

Design ARO Scale 1:500 @ A1 Date 12.12.2025

Drawn ARO 1:1000 @ A3

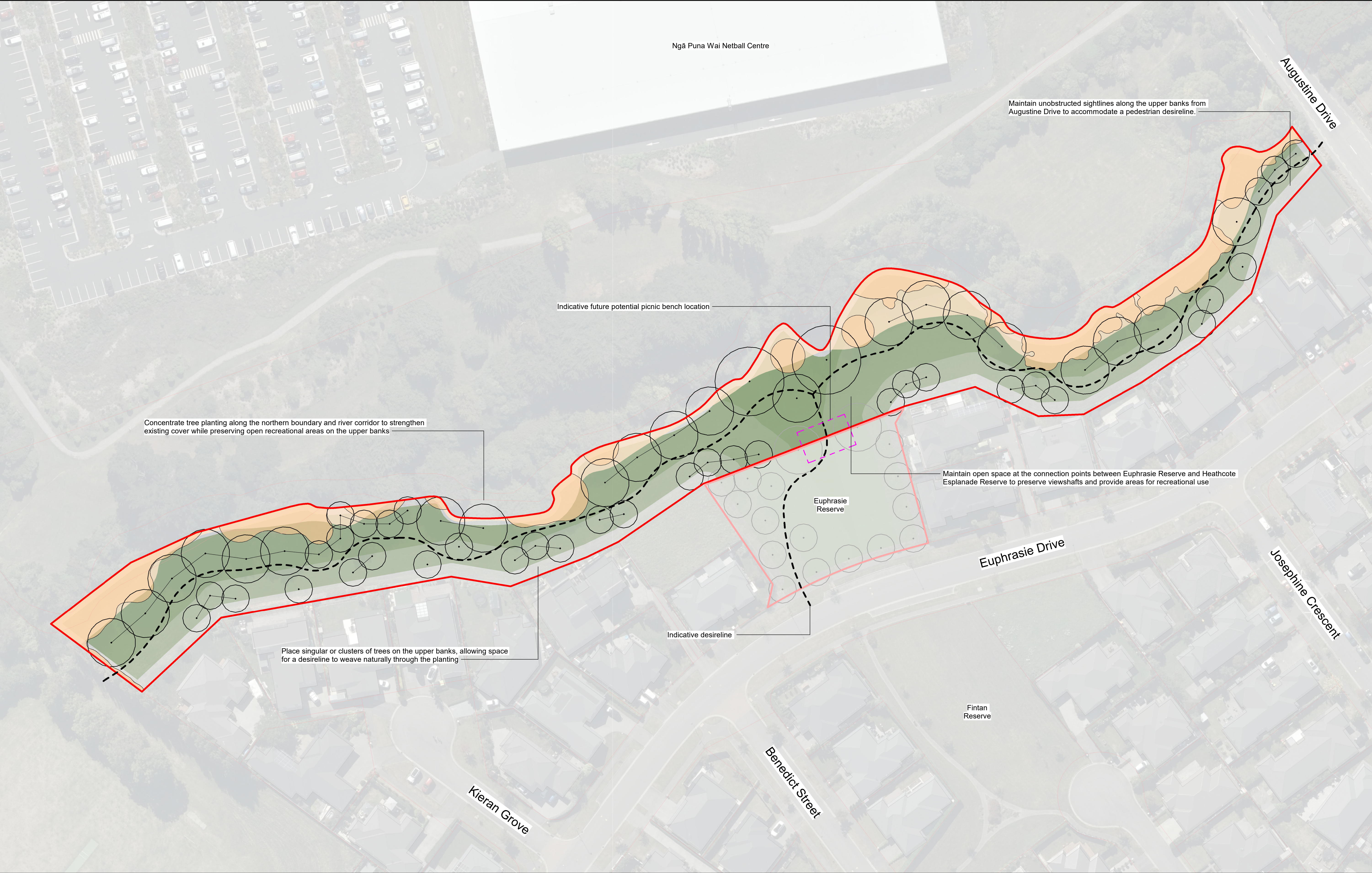
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ORIGINAL IN COLOUR

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Heathcote Esplanade Reserve

Planting Plan - Heathcote Esplanade Reserve

Design ARo Scale 1:500 @ A1 Date 12.12.2025

Drawn ARo 1:1000 @ A3

Check HCo

CONCEPT DESIGN

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