



Urban Forest Tree Planting Craighead Reserve

PROJECT NUMBER: **BM240711** Concept Design

PROJECT ADDRESS: Northcote Road,
Papanui, Christchurch
8052

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	19.09.2025	Concept Design Draft
B	13.03.2026	Concept Design

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LEGEND

Existing Canopy Cover

Existing Lower Vegetation

Existing Pathways and Features

Existing BMX Track

Existing Playground

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

Existing Specimen Trees

Existing Canopy Cover

- 111

- 4371.88 m²

35.6%

Canopy coverage to existing site

REV DATE

A 19.09.2025

DESCRIPTION

Concept Design Draft

APR

HCo

Urban Forest Tree Planting

Craighead Reserve

Existing Site

Design HCo

Drawn SYo

Check HCo

Scale 1:400 @ A1

1:800 @ A3

Date 19.09.2025

Concept Design

DRAWING NO.

BM240711_200

REVISION

A

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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 DATE

A 19.09.2025

DESCRIPTION

Concept Design Draft

APR HCO

Urban Forest Tree Planting
Craighead Reserve

Tree Height Capacities

Design HCo

Drawn SYo

Check HCo

Scale

1:400 @ A1

1:800 @ A3

Date

19.09.2025

Concept Design

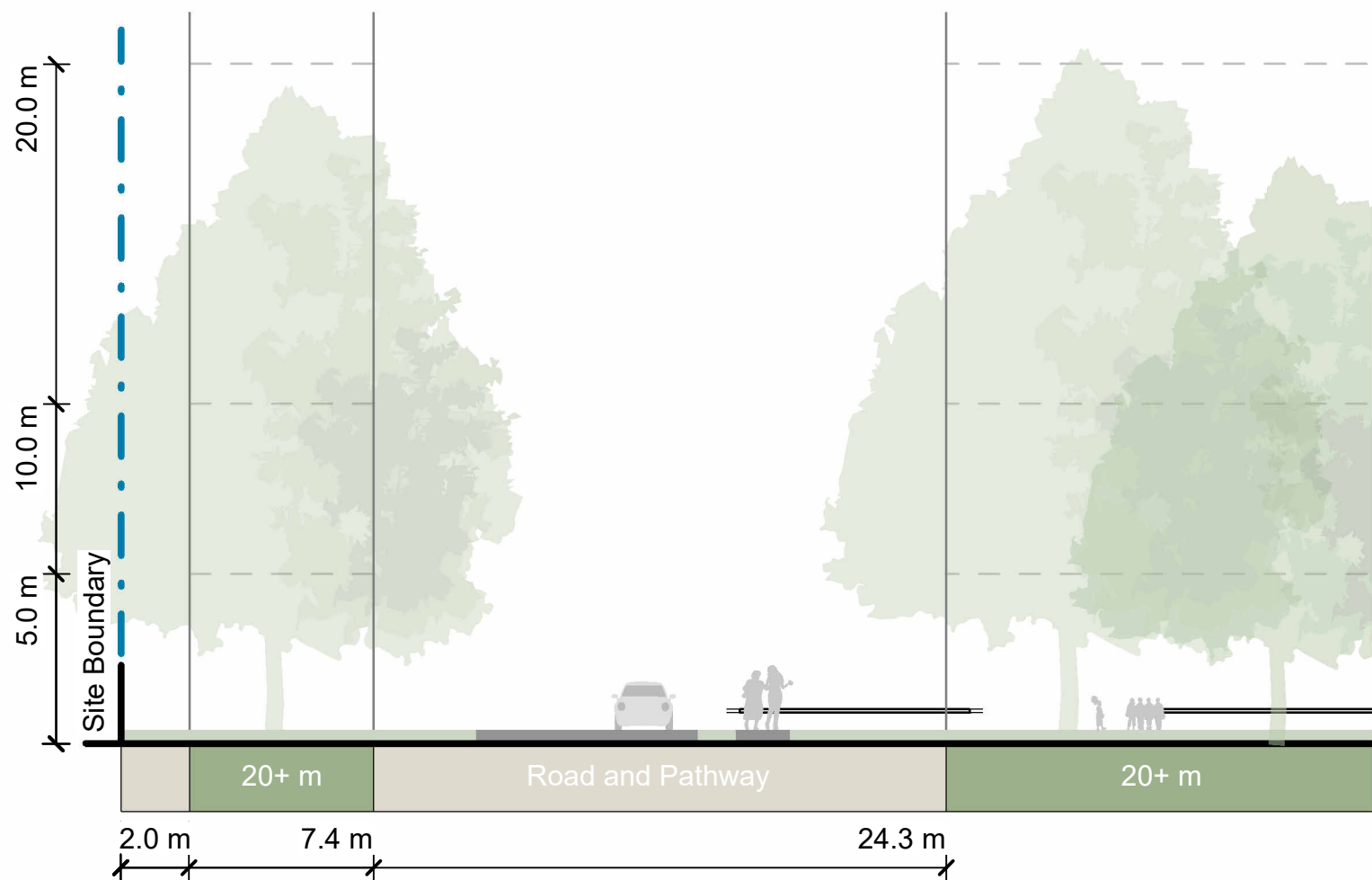
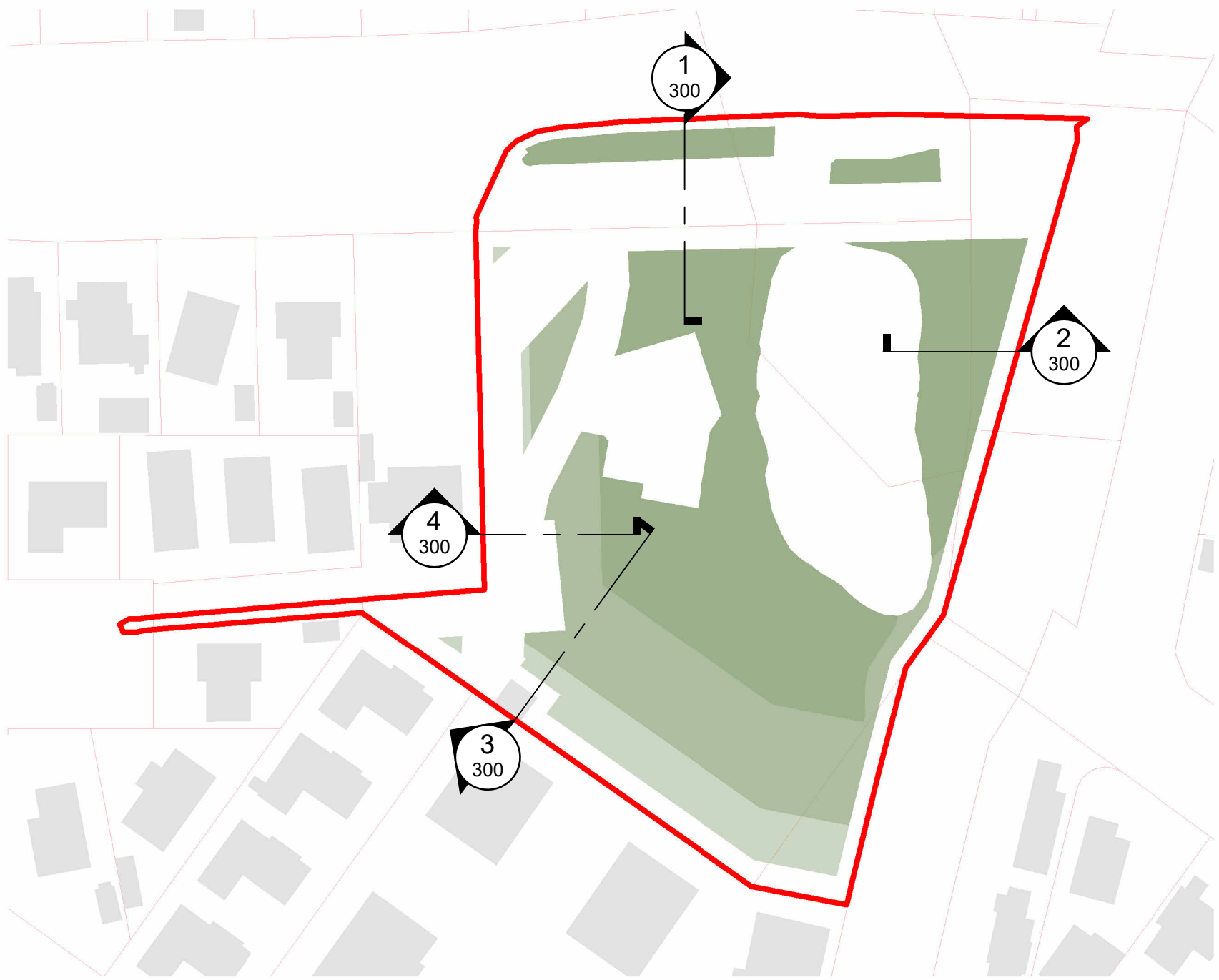
DRAWING NO.

BM240711_210

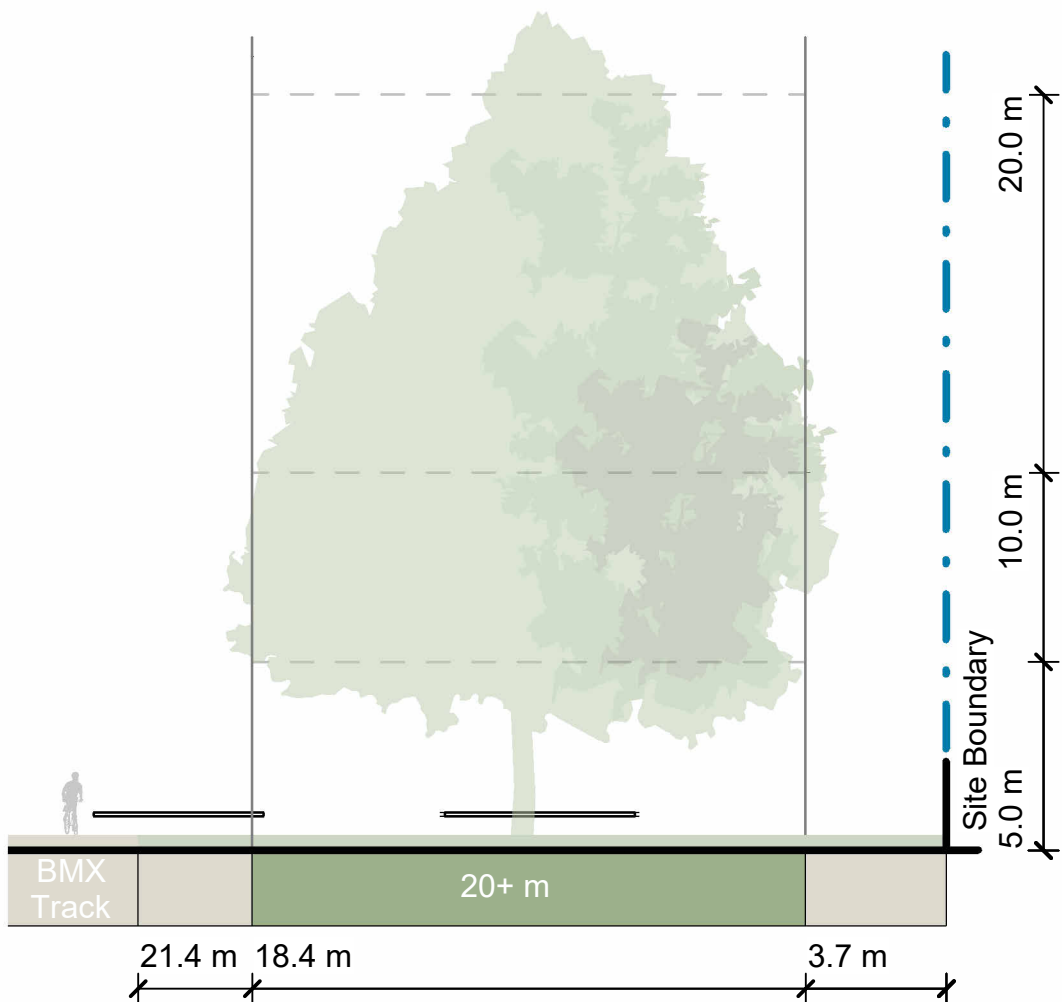
REVISION

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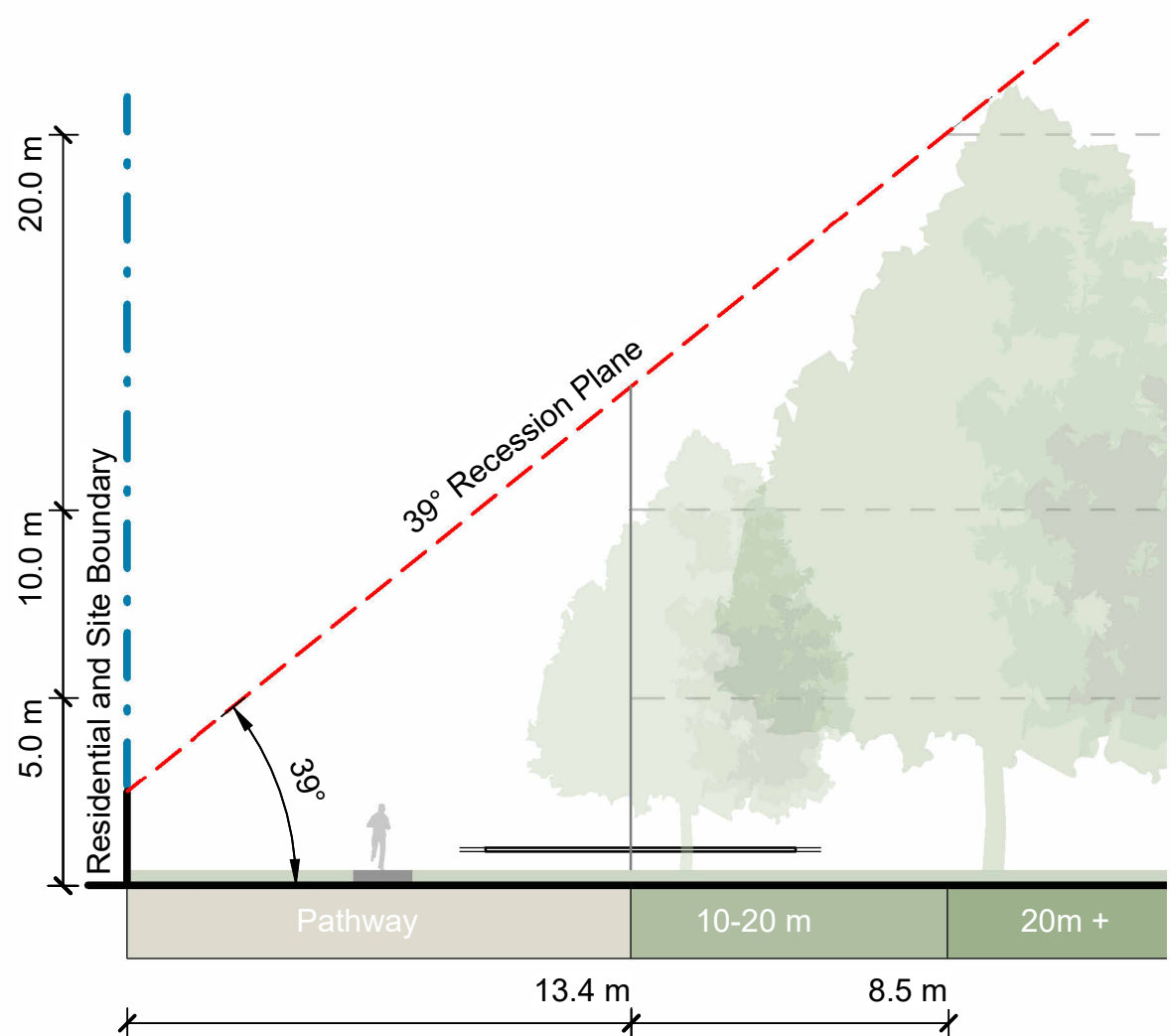
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Scale: 1 : 200



2 East Boundary Section
Scale: 1 : 200



3 South Boundary Section
Scale: 1 : 200



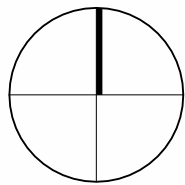
4 West Boundary Section
Scale: 1 : 200

ORIGINAL IN COLOUR



Note:

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



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APR
HCo

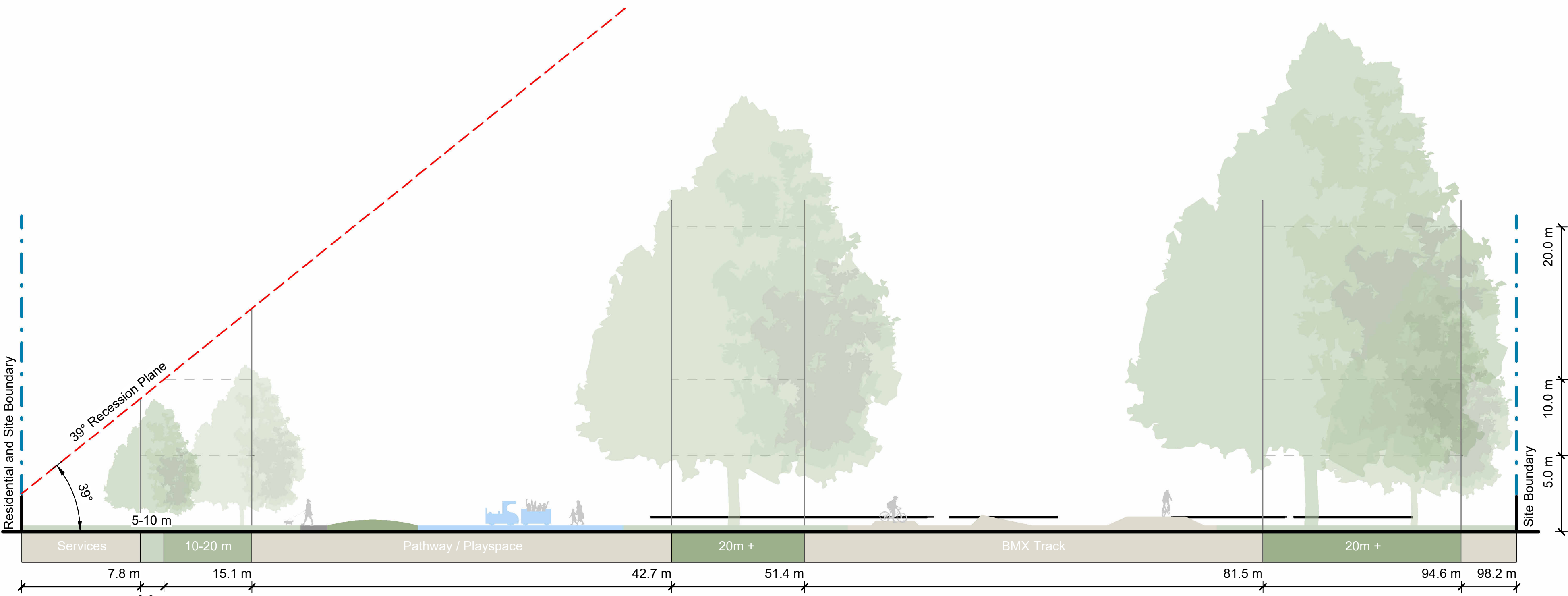
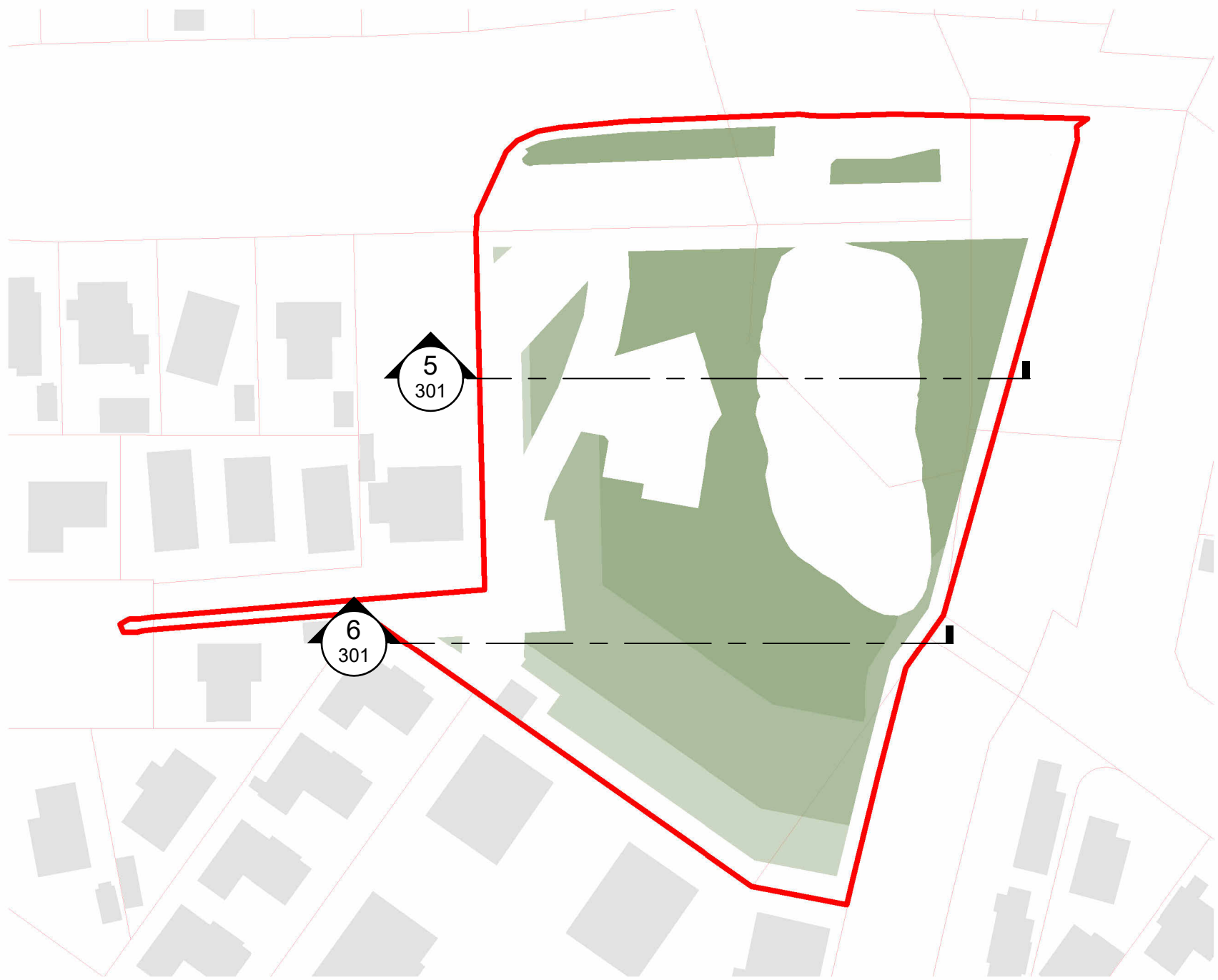
Urban Forest Tree Planting
Craighead Reserve

Cross Section Studies of Potential Tree
Heights

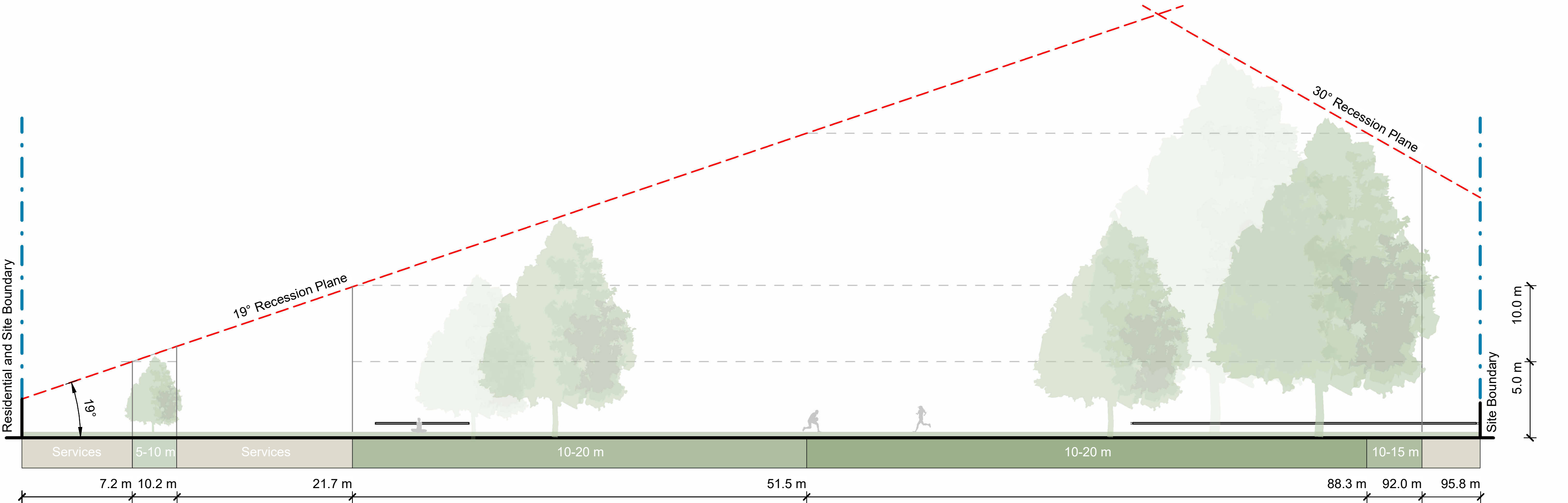
Design	HCo	Scale	Date
Drawn	SYo	As Shown	19.09.2025
Check	HCo		

Concept Design

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BM240711_300	A



5 West-East Cross Section 1
Scale: 1 : 200



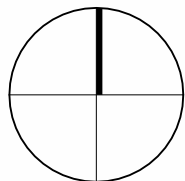
6 West-East Cross Section 2
Scale: 1 : 200

ORIGINAL IN COLOUR



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Note:
Sections identify maximum acceptable proposed tree height and density.
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Craighead Reserve**

Cross Section Studies of Potential Tree
Heights

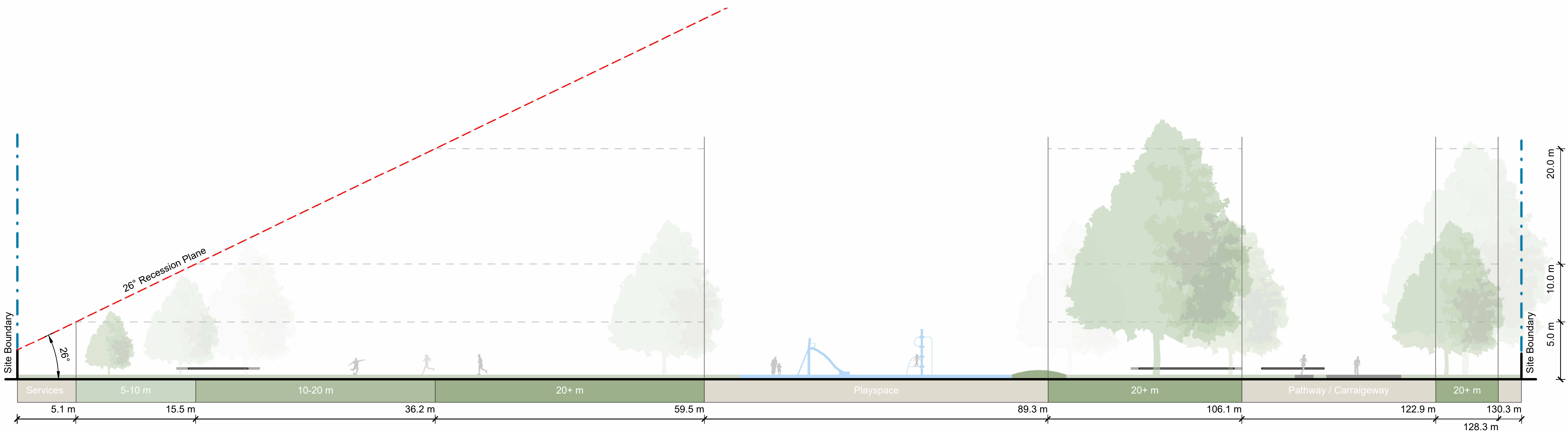
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Drawn	SYo	As Shown	19.09.2025
Check	HCo		

Concept Design

DRAWING NO.
BM240711_301

REVISION
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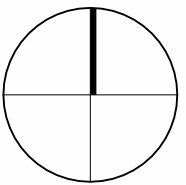


ORIGINAL IN COLOUR



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Note:
Sections identify maximum acceptable proposed tree height and density.
Existing vegetation not shown.
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APr
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**Urban Forest Tree Planting
Craighead Reserve**

Cross Section Studies of Potential Tree
Heights

Design	HCo	Scale	Date
Drawn	SYo	As Shown	19.09.2025
Check	HCo		

Concept Design

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BM240711_302	A

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ORIGINAL IN COLOUR

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Existing Canopy Cover - 4371.88 m² 35.6% Canopy coverage to existing site

Proposed Canopy Coverage - 3543.72 m² 28.9% Proposed canopy coverage

Total Canopy Coverage - 7915.60m² 64.5%

Total canopy coverage

PLANTING SCHEDULE

Qty	Type	Tree Height
4	Large Tree	Tree Height 15-20m
8	Medium Tree	Tree Height 10-15m
21	Small Tree	Tree Height 5-10m
111	Existing Trees	

0m 4m 8m 16m

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HCO
HCO

Urban Forest Tree Planting
Craighhead Reserve

Planting Plan

Design ARO
Drawn SYO
Check HCO

Scale
1:400 @ A1
1:800 @ A3

Date
19.09.2025

REVISION

CONCEPT DESIGN

DRAWING NO.
BM240711_500

B

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ORIGINAL IN COLOUR

Boffa Miskell

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Existing Canopy Cover	-	4371.88 m ²	35.6%	Canopy coverage to existing site
Proposed Canopy Coverage	-	3543.72 m ²	28.9%	Proposed canopy coverage
Total Canopy Coverage	-	8386.84m²	68.3%	Total canopy coverage

PLANTING SCHEDULE

Qty	Type	Tree Height
4	Large Tree	Tree Height 15-20m
8	Medium Tree	Tree Height 10-15m
21	Small Tree	Tree Height 5-10m
111	Existing Trees	

0m4m8m16m

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Craighead Reserve

Planting Plan

Design

HCO

Scale

1:400 @ A1

Date

19.09.2025

Drawn

SYO

1:800 @ A3

Check

HCO

Concept Design

DRAWING NO.

BM240711_510

REVISION

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