



Urban Forest Tree Planting Helmore Park

PROJECT NUMBER: **BM240711** Concept Design

PROJECT ADDRESS: 29 Tower Street,
Hornby, Christchurch,
8042

CLIENT: Christchurch City Council

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

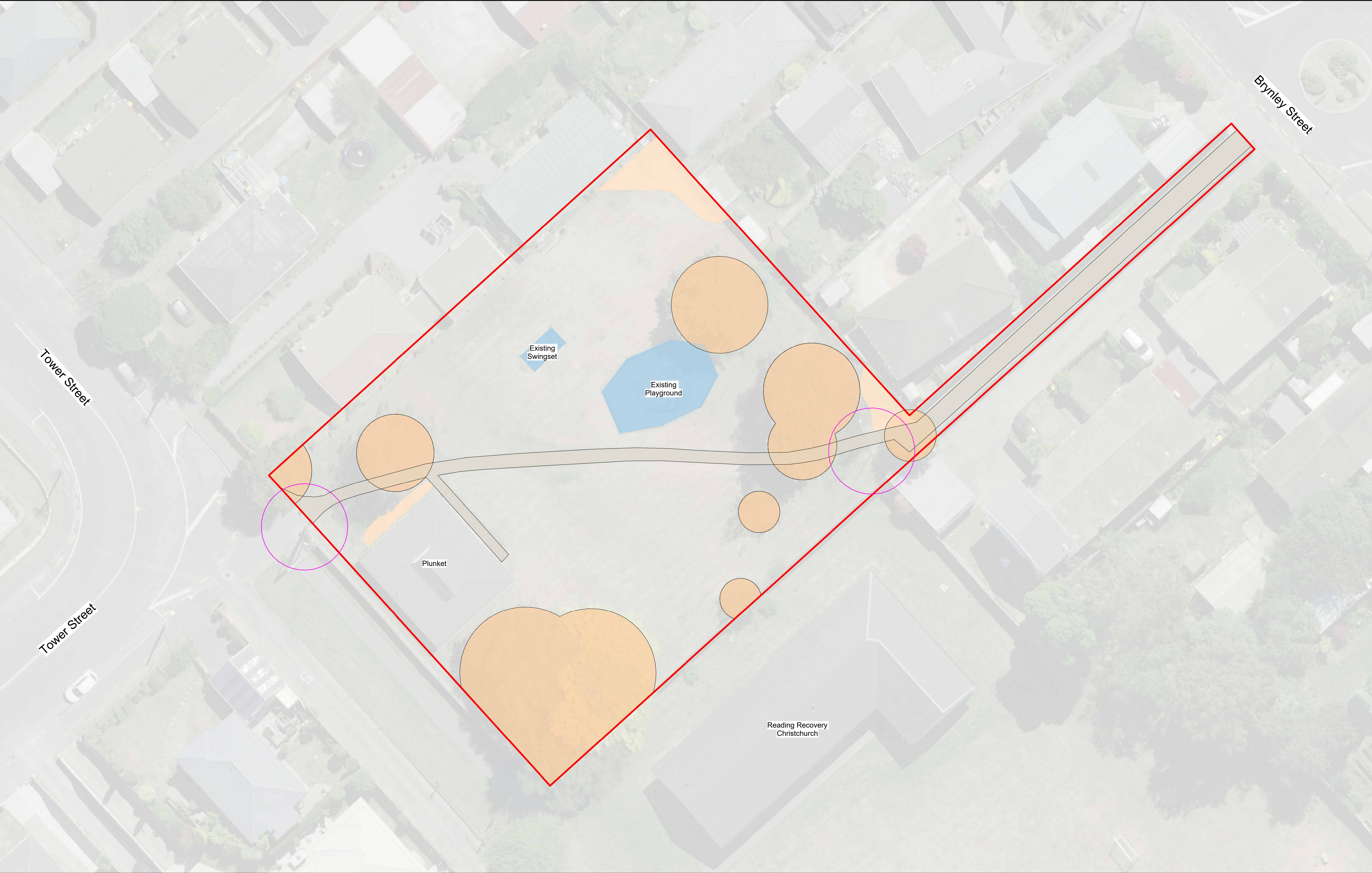


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REV	DATE	DESCRIPTION
A	12.12.2025	Concept Design Draft

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ORIGINAL IN COLOUR



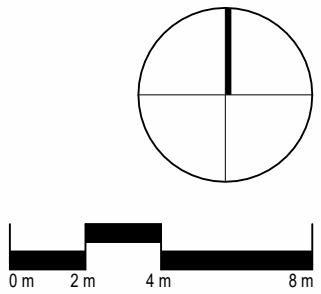
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LEGEND

- Existing Canopy Cover
- Existing Lower Vegetation
- Existing Pathways and Features
- Existing Play Area
- Lightpole Clearance

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

Existing Specimen Trees - 11
Existing Canopy Cover - 687.65 m² 22.2% Canopy coverage to existing site



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APR
HCo

Urban Forest Tree Planting
Helmore Park

Existing Site

Design	HCo	Scale	Date
Drawn	ARo	1:200 @ A1	12.12.2025
Check	HCo	1:400 @ A3	

Concept Design

DRAWING NO.	REVISION
BM240711_200	A

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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

0m2m4m6m

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Tree Height Capacities

Design HCo
Drawn ARo
Check HCo

Scale
1:200 @ A1
1:400 @ A3

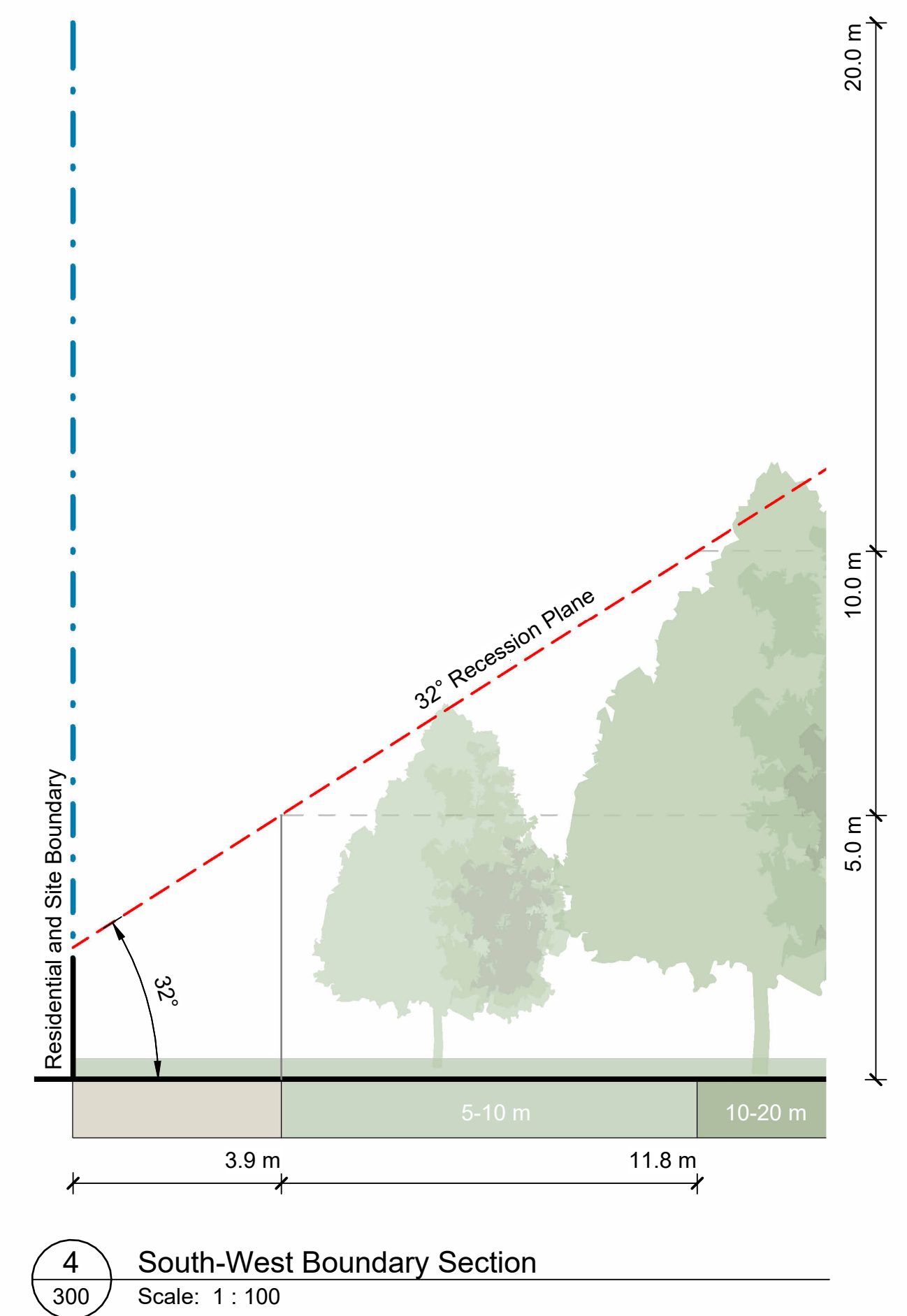
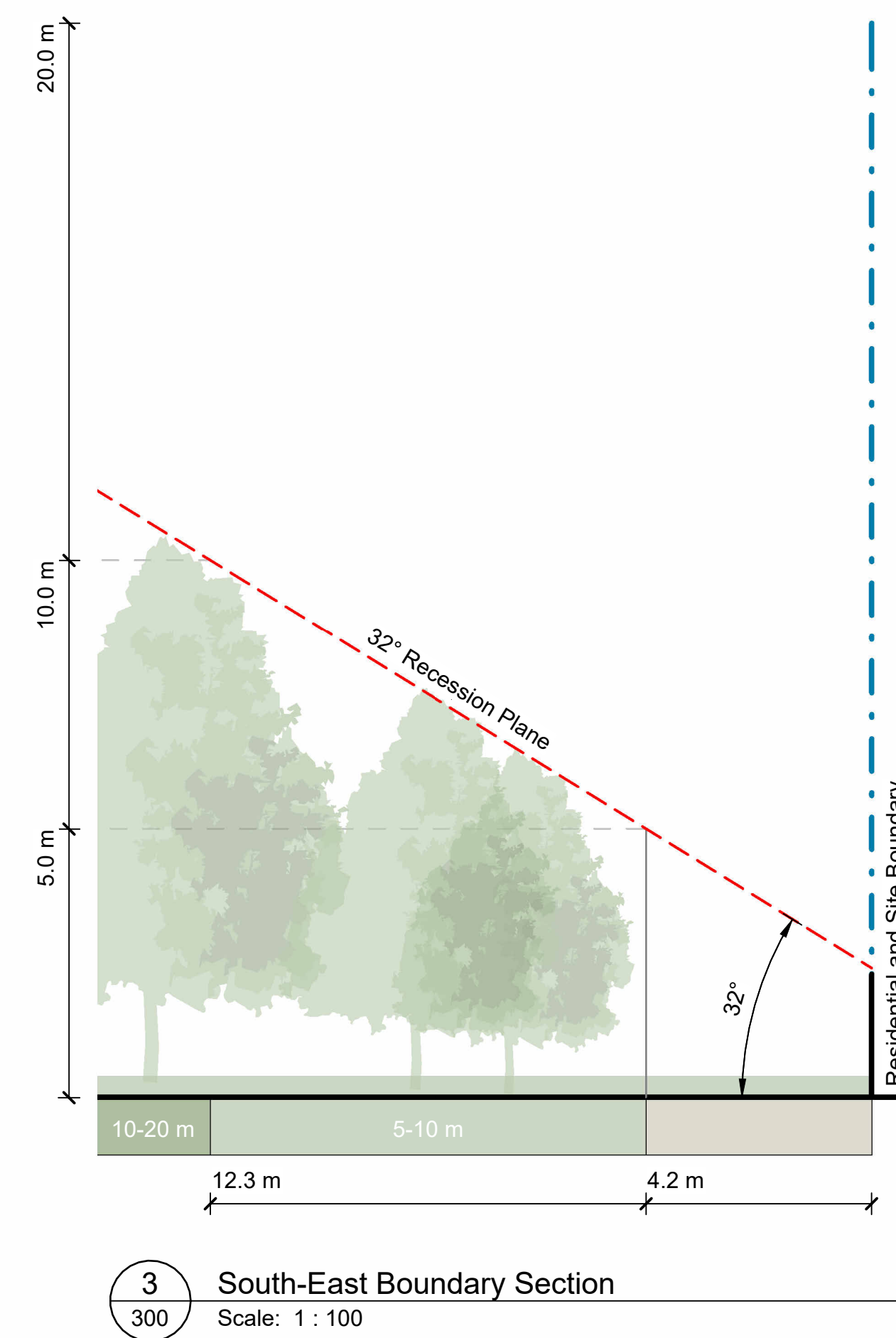
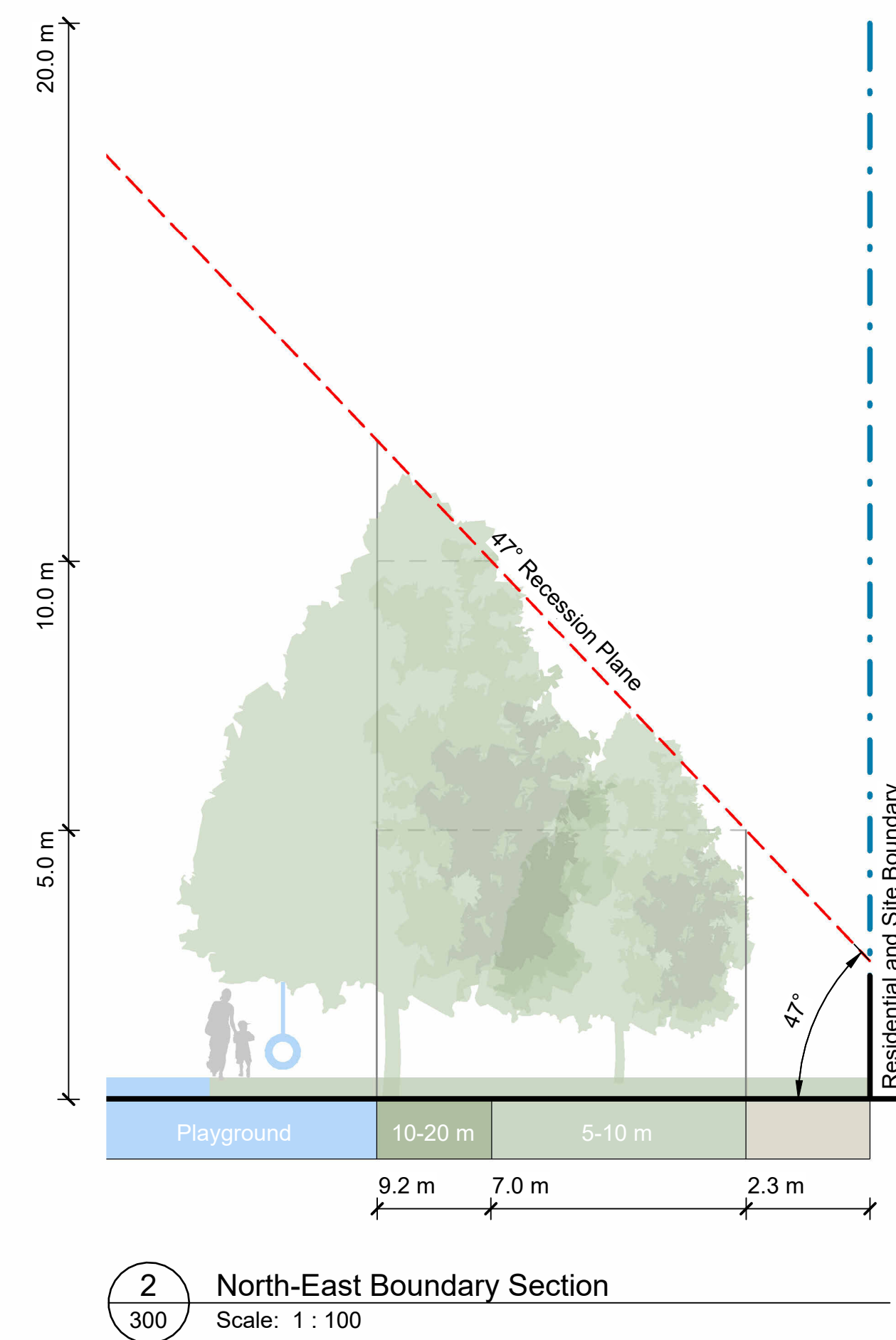
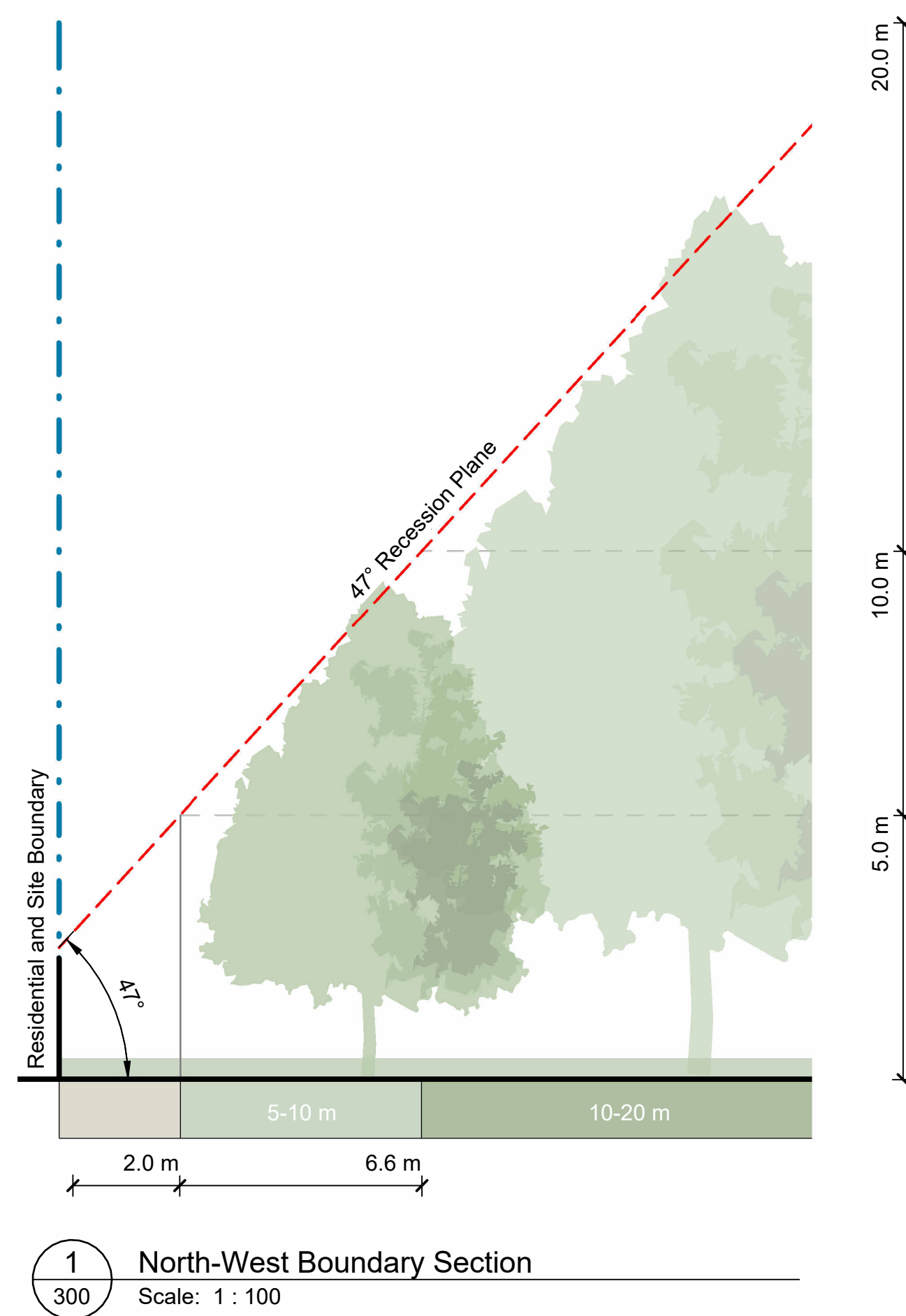
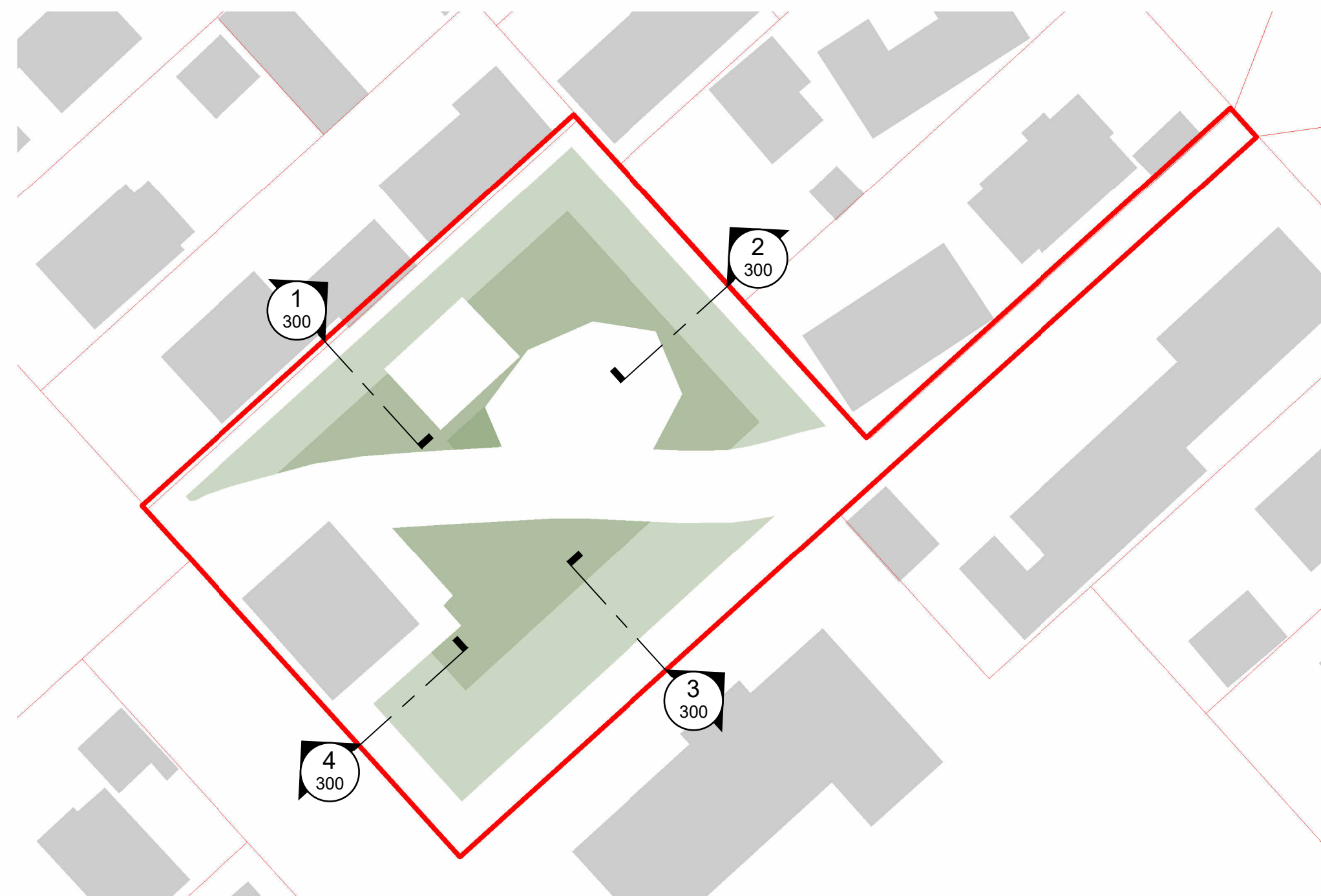
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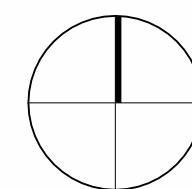
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BM240711_210

REVISION
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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.



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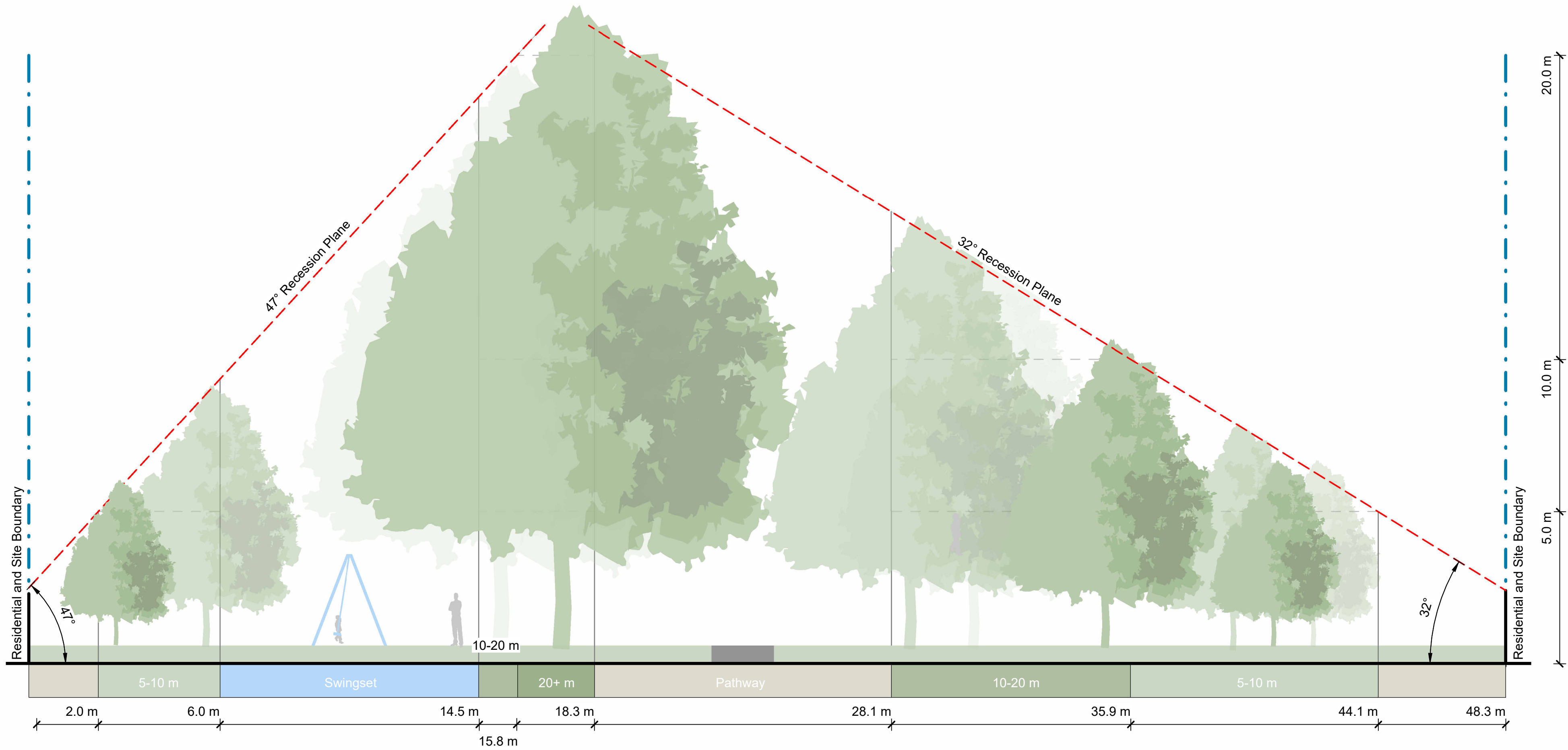
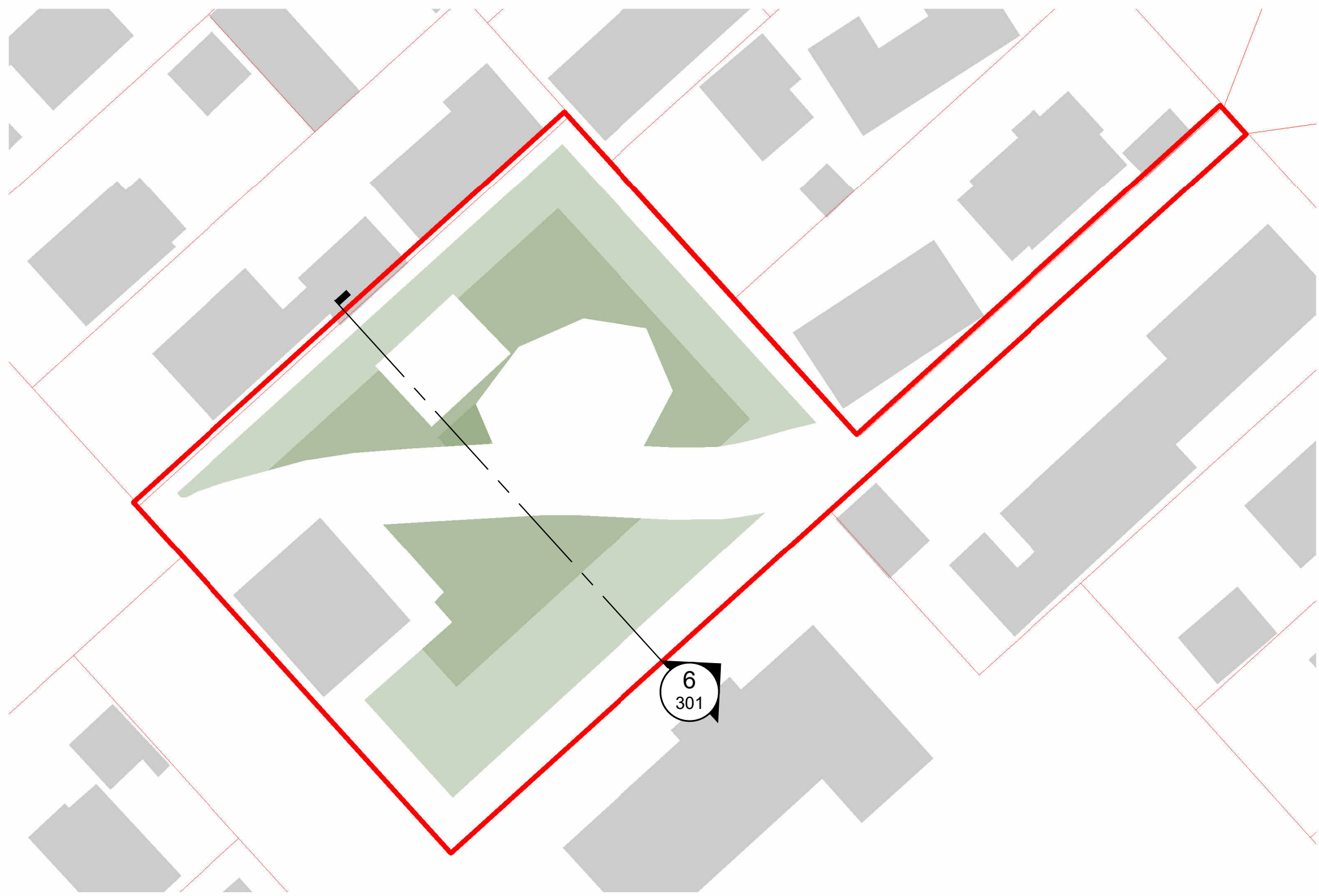
Cross Section Studies of Potential Tree Heights

Design	HCo	Scale	Date
Drawn	ARo	As Shown	12.12.2025

Concept Design

DRAWING NO. BM240711_300

REVISION A

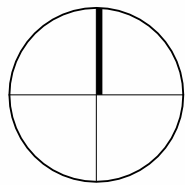


6 North-West to South-East Cross Section
301 Scale: 1 : 100

ORIGINAL IN COLOUR



Note:
Sections identify maximum acceptable proposed tree height and density.
Existing vegetation not shown.
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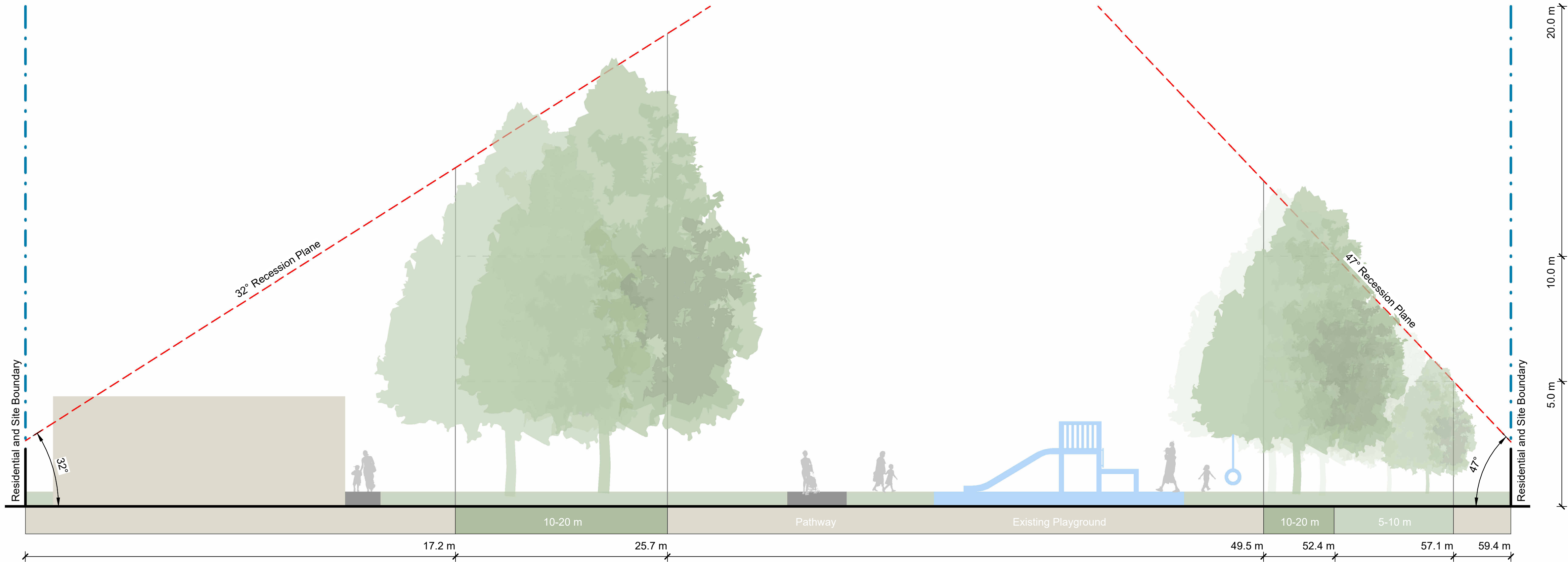
Urban Forest Tree Planting Helmore Park

Cross Section Studies of Potential Tree
Heights

Design	HCo	Scale	Date
Drawn	ARo	As Shown	12.12.2025
Check	HCo		

Concept Design

DRAWING NO.	REVISION
BM240711_301	A

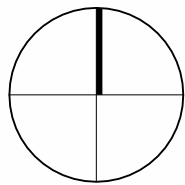


1
302 South-West to North-East Cross Section
Scale: 1 : 100

ORIGINAL IN COLOUR



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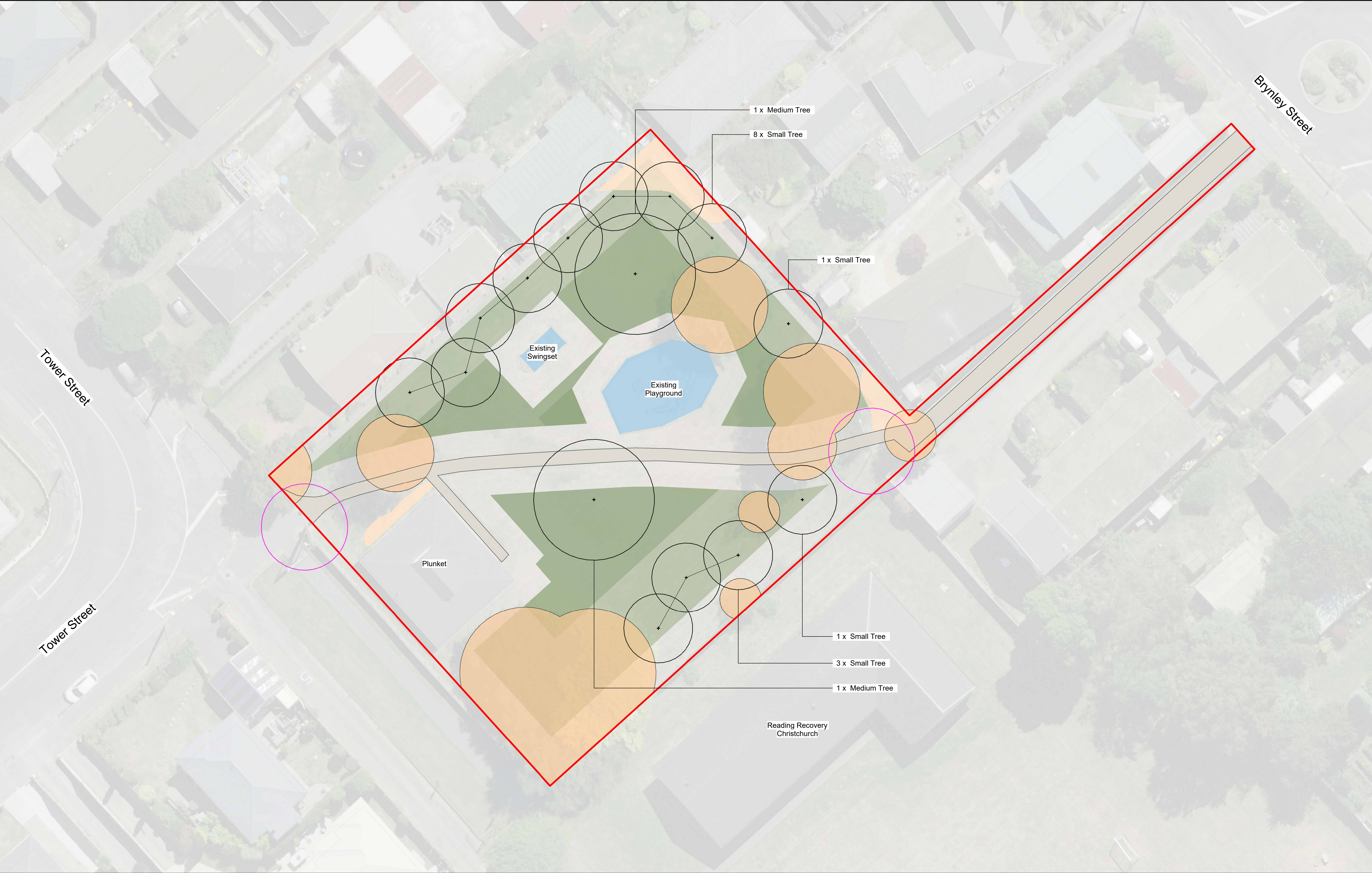
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**Urban Forest Tree Planting
Helmore Park**

Cross Section Studies of Potential Tree
Heights

Design	HCo	Scale	Date
Drawn	ARo	As Shown	12.12.2025
Check	HCo		

Concept Design

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BM240711_302	A



ORIGINAL IN COLOUR

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Existing Canopy Cover - 687.65 m² 22.2% Canopy coverage to existing site

Proposed Canopy Coverage - 961.33 m² 31.1% Proposed canopy coverage

Total Canopy Coverage - 1,648.98 m² 53.3% Total canopy coverage

PLANTING SCHEDULE		
Qty	Type	Tree Height
2	Medium Tree	Tree Height 10-15m
13	Small Tree	Tree Height 5-10m
11	Existing Trees	

0m 2m 4m 6m

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Urban Forest Tree Planting
Helmore Park

Planting Plan

Design HCo

Drawn ARO

Check HCo

Scale 1:200 @ A1

1:400 @ A3

Date 12.12.2025

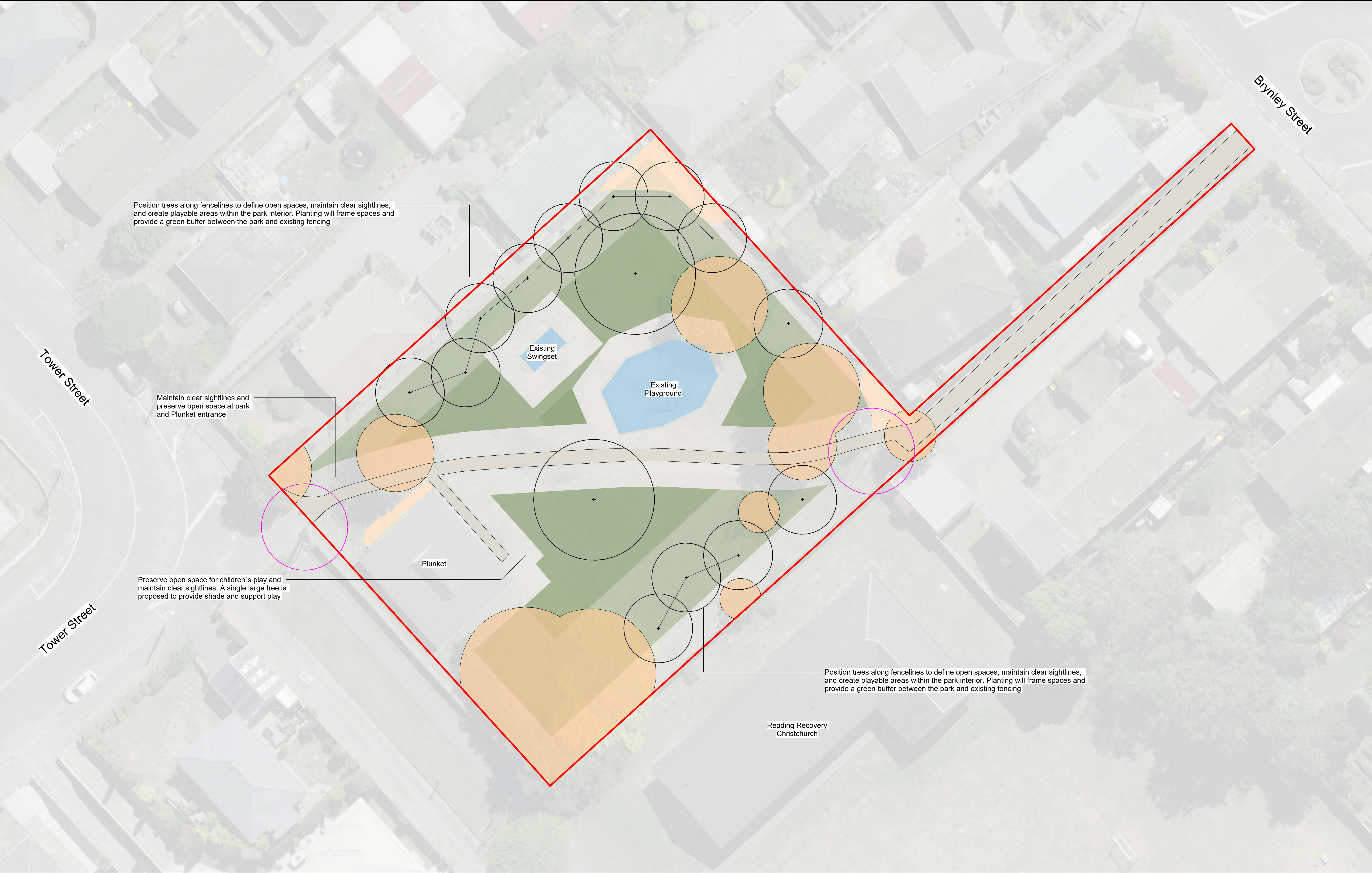
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ORIGINAL IN COLOUR

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Existing Canopy Cover - 687.65 m²
Proposed Canopy Coverage - 961.33 m²
Total Canopy Coverage - 1,648.98 m²

22.2%
31.1%
53.3%

Canopy coverage to existing site
Proposed canopy coverage
Total canopy coverage

PLANTING SCHEDULE		
Qty	Type	Tree Height
2	Medium Tree	Tree Height 10-15m
13	Small Tree	Tree Height 5-10m
11	Existing Trees	

0m2m4m6m

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APR

HCo

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Helmore Park

Planting Plan

Design HCo
Drawn ARo
Check HCo

Scale
1:200 @ A1
1:400 @ A3

Date
12.12.2025

Concept Design

DRAWING NO.

BM240711_510

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