

PROJECT NAME

RADLEY PARK

ADDRESS

30 Riley Crescent, Woolston, Christchurch

CLIENT

Christchurch City Council

COMMUNITY PARK TREE PLANTING STUDY

Issued date

30/05/2023



SHEET NO.	SHEET TITLE	SHEET SUBTITLE
P 00	RADLEY PARK	Community Park Tree Planting Study
P 01	RADLEY PARK	Existing Planting
P 02	RADLEY PARK	Tree Planting Zones
P 03	RADLEY PARK	Tree Planting Zones - Lot Boundary Cross Sections
P 04	RADLEY PARK	Shade Study - Winter Solstice - 8 am
P 05	RADLEY PARK	Shade Study - Winter Solstice - 10 am
P 06	RADLEY PARK	Shade Study - Winter Solstice - 12 noon
P 07	RADLEY PARK	Shade Study - Winter Solstice - 2 pm
P 08	RADLEY PARK	Shade Study - Winter Solstice - 4 pm
P 09	RADLEY PARK	Shade Study - Winter Solstice - 6 pm
P 10	RADLEY PARK	Tree Planting Plan
P 11	RADLEY PARK	Tree Planting Guidelines



PREPARED BY



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REFERENCE NO.

5323



RADLEY PARK

Community Park Tree Planting

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RADLEY PARK
Existing Planting

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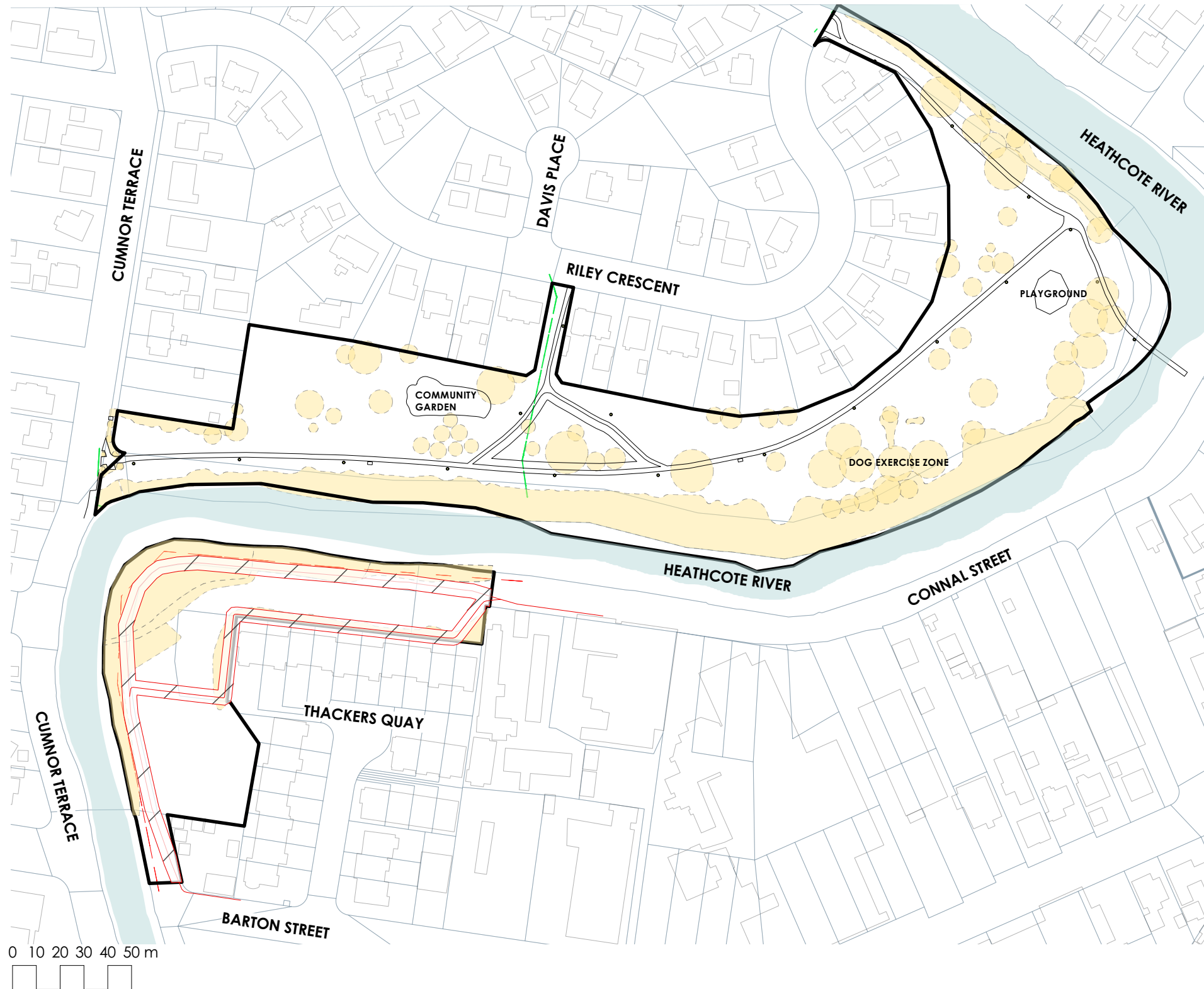
Existing Tree/
Vegetation

Existing Services

Stormwater

Wastewater

Light



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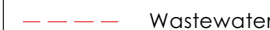
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RADLEY PARK
Tree Planting Zones

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Existing Services



Potential Tree Planting Areas



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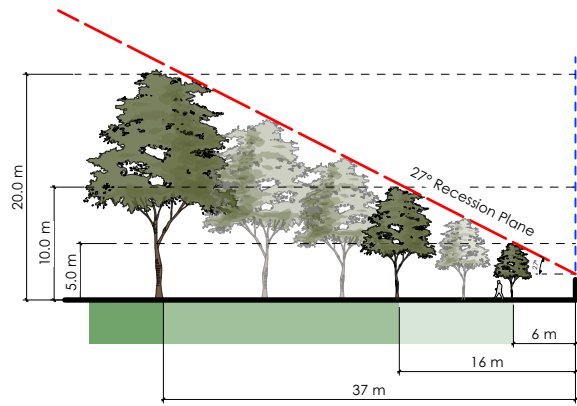
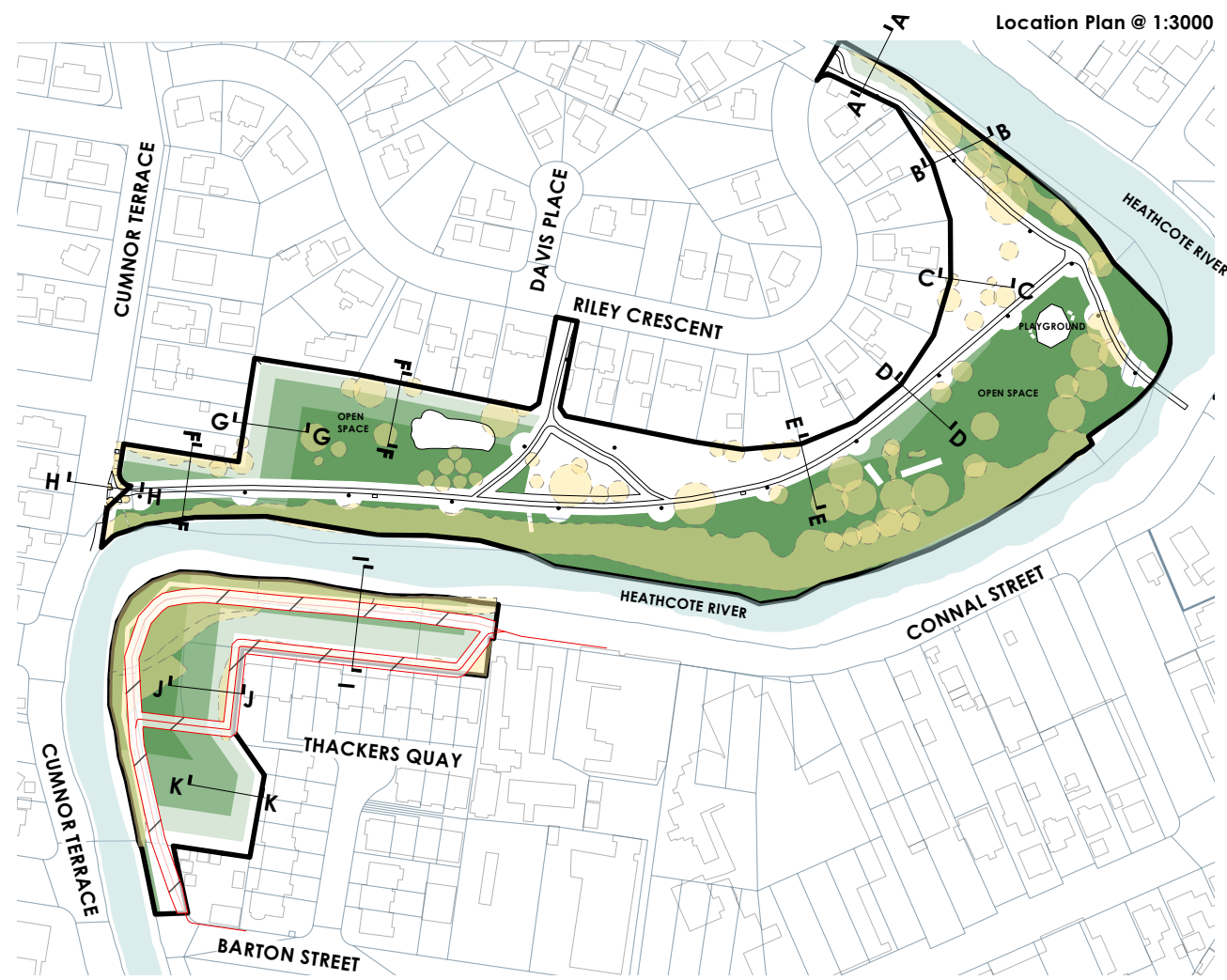
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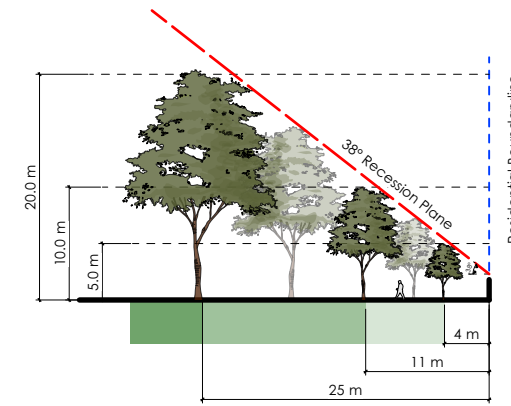
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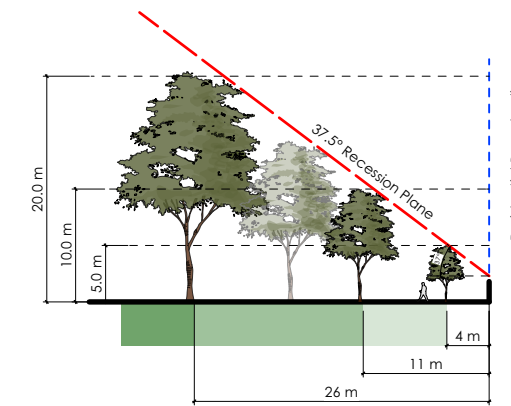
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Cross Section I-I

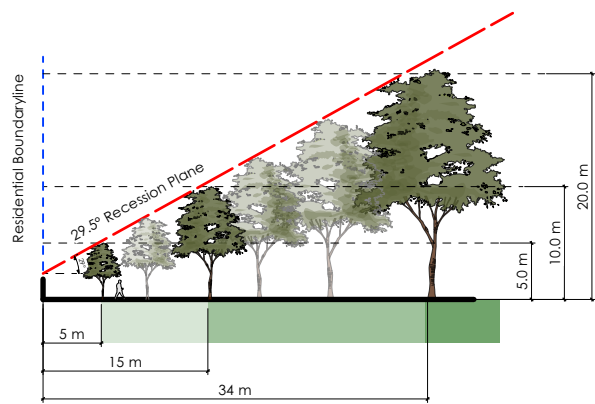


Cross Section J-J

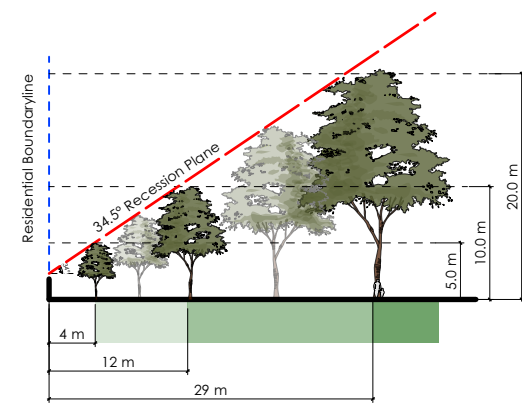


Cross Section K-K

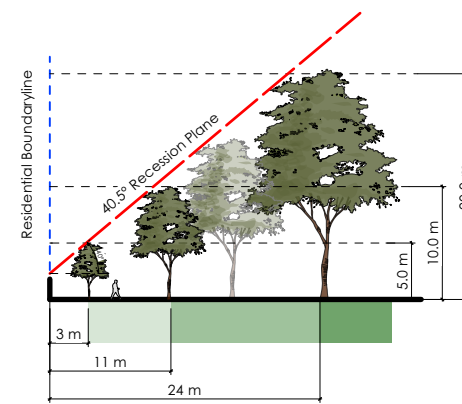
INDICATIVE CROSS SECTION THROUGH THE BOUNDARIES



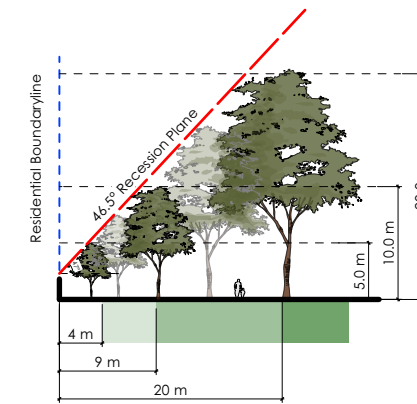
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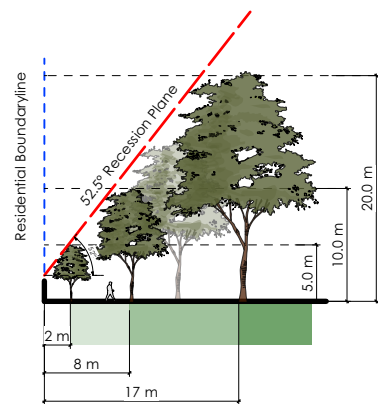
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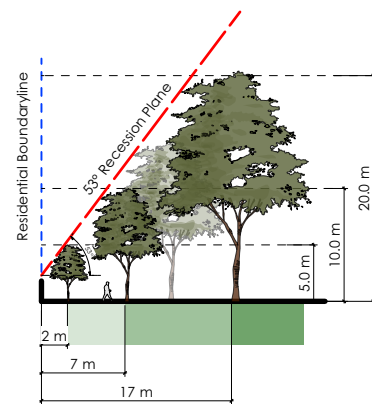
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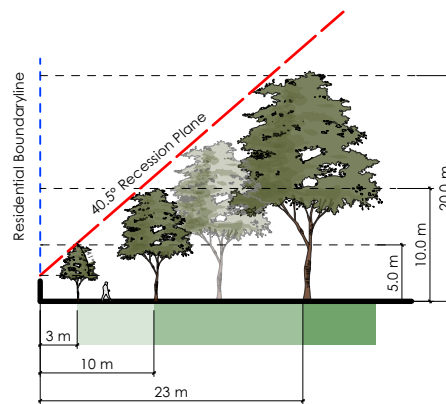
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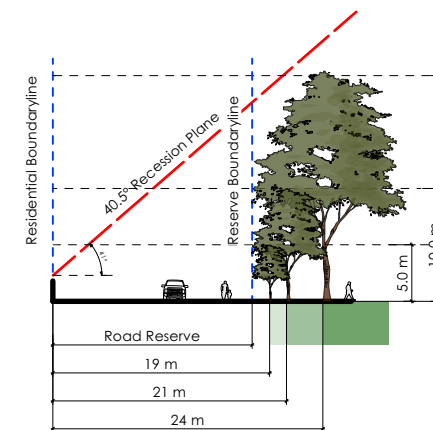
Cross Section E-E



Cross Section F-F



Cross Section G-G



Cross Section H-H

RADLEY PARK
Community Park Tree Planting

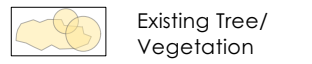
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RADLEY PARK
Tree Planting Zones

Lot Boundary Cross Sections

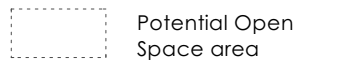
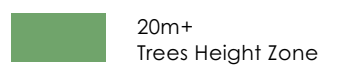
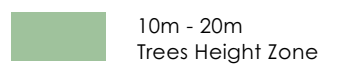
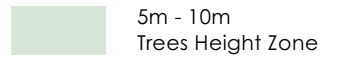
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Existing Services



Potential Tree Planting Areas



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Winter Solstice

Date: 22nd June



RADLEY PARK

Community Park Tree Planting

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30 Riley Crescent, Woolston,
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RADLEY PARK

Shade Study - Winter Solstice

8 am

8 am



Note:
Trees in the model are shown
at 5m, 10m, 20m height

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REVISION A

Winter Solstice

Date: 22nd June

10 am



RADLEY PARK

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RADLEY PARK

Shade Study - Winter Solstice

10 am

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Winter Solstice

Date: 22nd June

12 noon



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RADLEY PARK
Shade Study - Winter Solstice

12 noon

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Winter Solstice

Date: 22nd June

2 pm



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RADLEY PARK

Shade Study - Winter Solstice

2 pm

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Winter Solstice

Date: 22nd June

4 pm



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RADLEY PARK
Shade Study - Winter Solstice
4 pm

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Winter Solstice

Date: 22nd June

6 pm



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RADLEY PARK

Shade Study - Winter Solstice

6 pm

Note:
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RADLEY PARK

Community Park Tree Planting

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RADLEY PARK
Tree Planting Plan

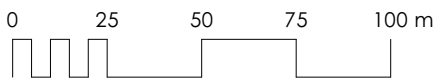
LEGEND



Existing Services



Potential Tree Planting Areas



PLANT SCHEDULE - RADLEY PARK

ID	Qty	Botanical Name	Common Name
TREE HEIGHT 5-10M			
Ar. s.	15	Aristotelia serrata	Wineberry/Makamako
Co.ro.	22	Coprosma robusta	Karamu
Gr.lu.	5	Griselinia lucida	Puka/Broadleaf
Ho.l.	13	Hoheria lyallii	Mountain Lacebark
My.l.	35	Myoporum laetum	Ngaio
Ol.p.	3	Olearia paniculata	Golden Akeake
Pi.t.	10	Pittosporum tenuifolium	Kohuhu
Pr.y.	10	Prunus yedoensis	Flowering Cherry
Ps.f.	6	Pseudopanax ferox	Fierce Lancewood
TREE HEIGHT 11-15M			
Pl.r.	10	Plagianthus regius	Ribbonwood / Manatu
Ti.c.	6	Tilia cordata	Small-leaved/Linden Lime
TREE HEIGHT 16-20M			
Ho.a.	7	Hoheria angustifolia	Narrow leafed lacebark / Houhere
Pi.eu.	3	Pittosporum eugenioides	Lemonwood / Tarata
So.m.	18	Sophora microphylla	Kowhai
TREE HEIGHT 20M+			
Ca.S.	1	Castanea sativa	Sweet Chestnut
Li.t.	1	Liriodendron tulipifera	Tulip Tree
Po.t.	32	Podocarpus totara	Totara
Ti.p.	2	Tilia platyphyllos	Large-leaved Linden

Note:
Contractor to confirm service and irrigation locations using on site service locators prior to commencing work.

DRAFT

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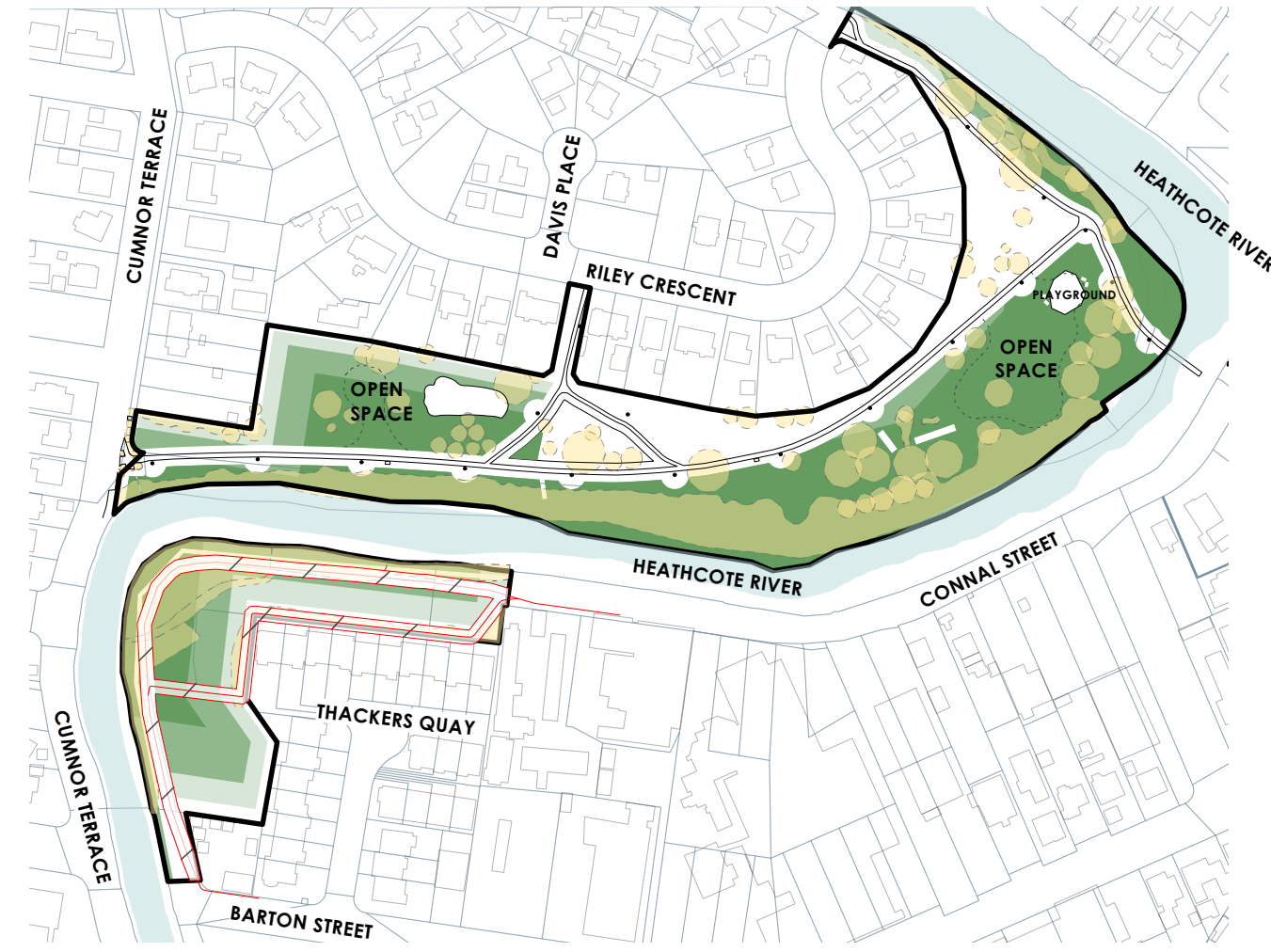
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RADLEY PARK		
Park Canopy Cover Summary		
Existing number of trees		73
Existing canopy cover	approx.	37%
Proposed number of new trees		213
Proposed net canopy cover (existing vegetation and proposed)	approx.	68%



LEGEND

- Existing Tree/Vegetation (Yellow circles)
- Existing Services
 - Stormwater (Green dashed line)
 - Wastewater (Red dashed line)
 - Light (Yellow circle)
- Potential Tree Planting Areas
 - 5m - 10m Trees Height Zone (Lightest green)
 - 10m - 20m Trees Height Zone (Medium green)
 - 20m+ Trees Height Zone (Darkest green)
 - Potential Open Space area (Dashed line)

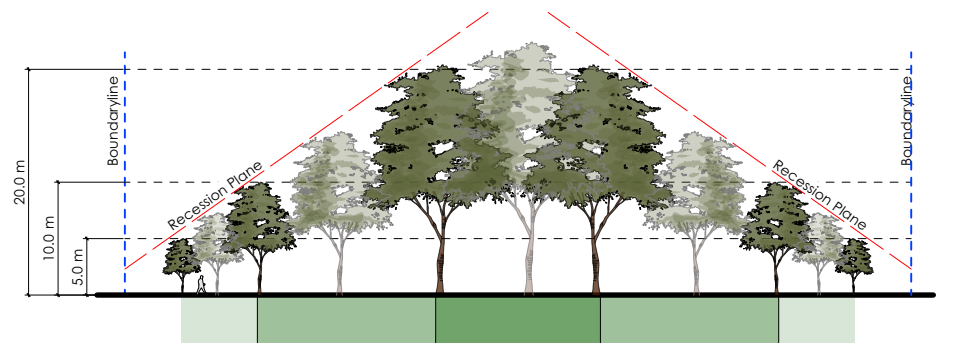
Guideline Summary

- Tree planting to Special Character Parks will continue the established theme.
- Trees will be positioned appropriately to allow for debris management.
- Tree species shall be well suited to the local conditions.
- Planting along waterways will be predominantly native species.
- CCC will aim for 40-60% of new tree plantings as natives.

Tree Setbacks & Spacings

- No tree shall intrude through the recession plane.
- 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. 1m offset for all other services and hard paving not mentioned above.

Typical tree planting pattern



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