

PROJECT NAME

WEST WATSON PARK

ADDRESS

9 Bean Street, Hillmorton, Christchurch

CLIENT

Christchurch City Council

COMMUNITY PARK TREE PLANTING STUDY

Issued date

28/02/2023



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



PREPARED BY



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REFERENCE NO.

5323

WEST WATSON PARK


Community Park Tree Planting

ADDRESS
9 Bean Street, Hillmorton,
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WEST WATSON PARK
Existing Planting

LEGEND

-  Existing Tree/
Vegetation
-  Sports field/ Court

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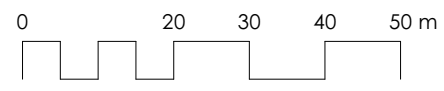
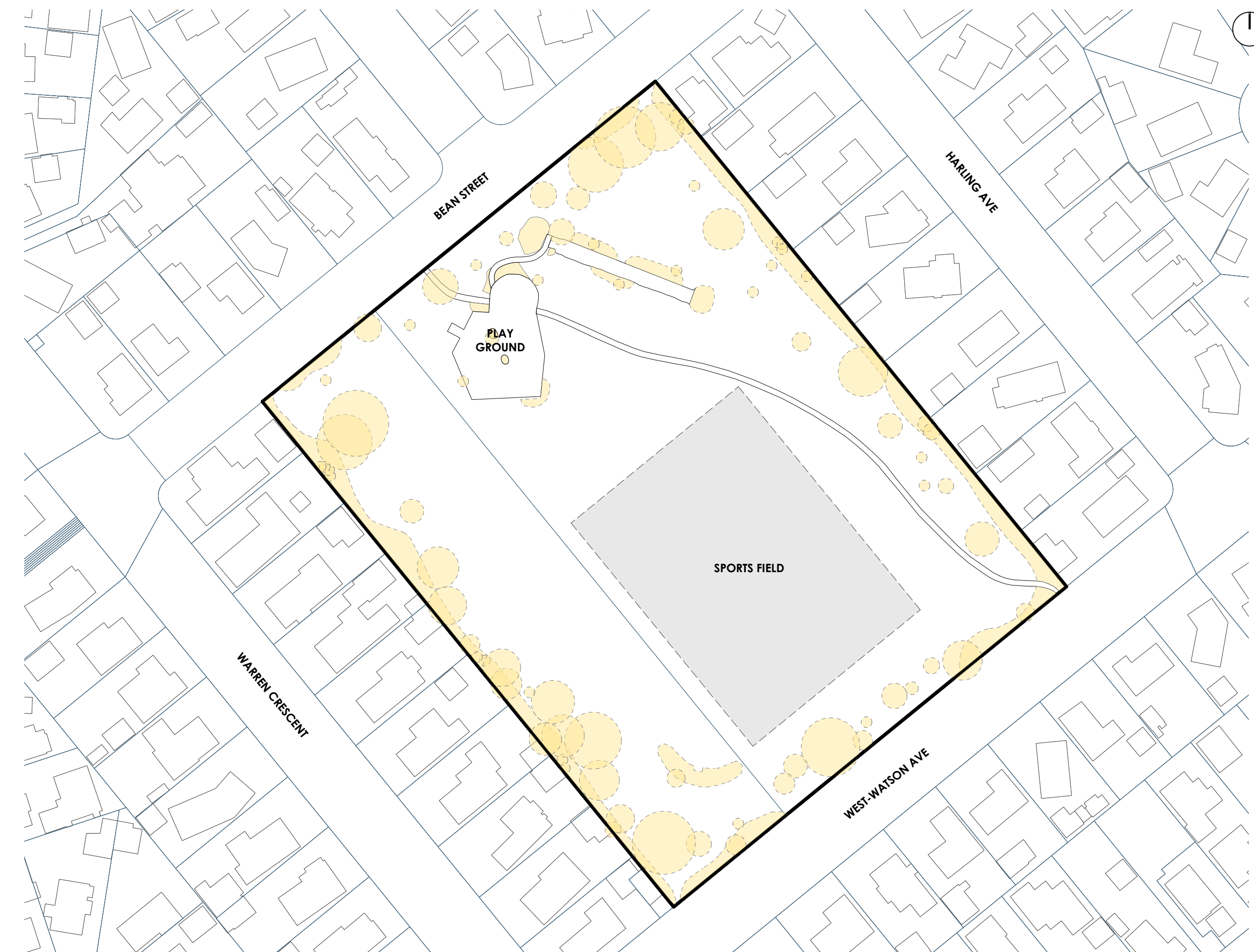


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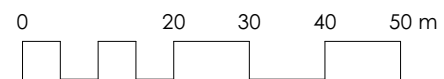
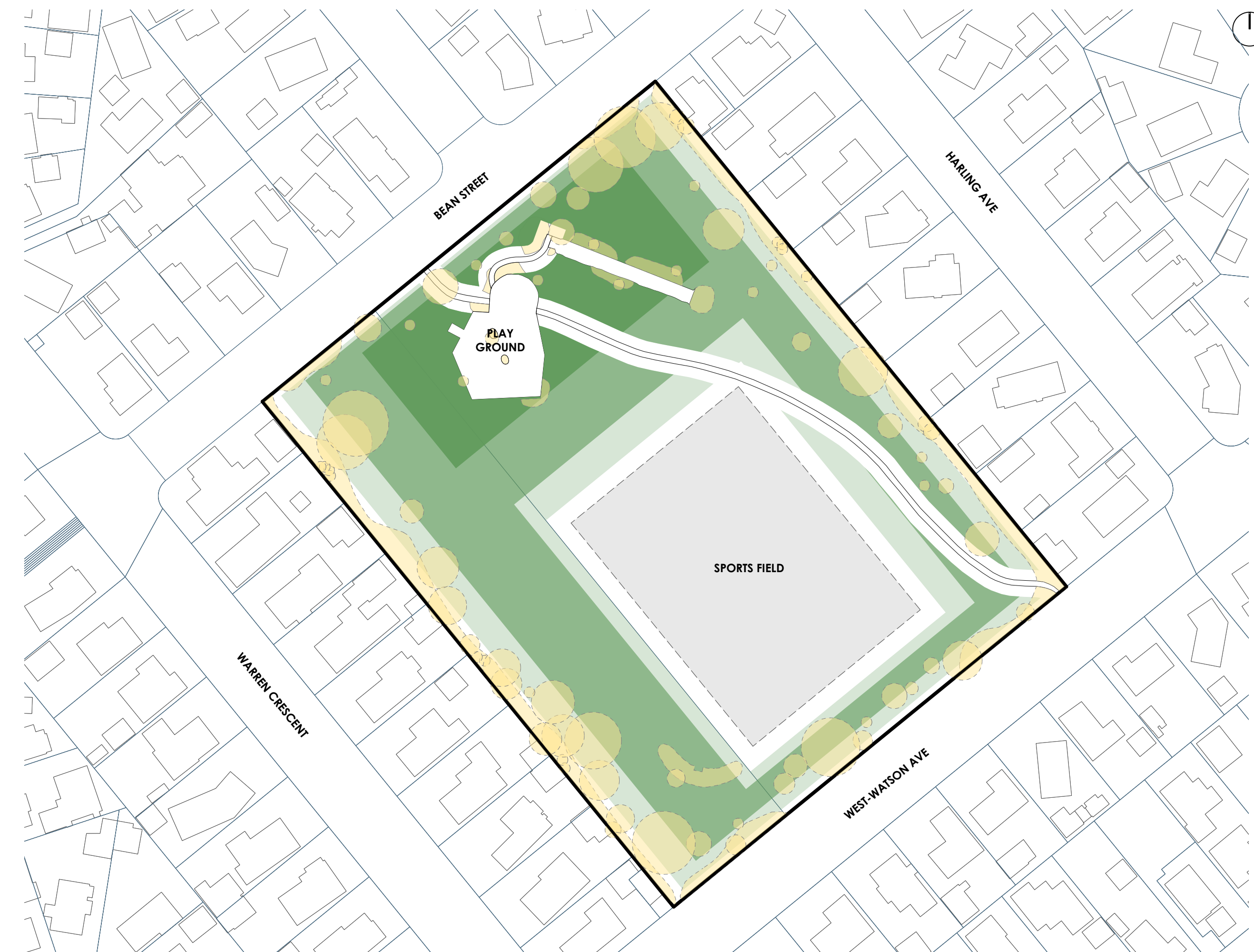
WEST WATSON PARK
Tree Planting Zones

LEGEND

-  Existing Tree/ Vegetation
-  Sports field/ Court

Potential Tree Planting Areas

-  5m - 10m Trees Height Zone
-  10m - 20m Trees Height Zone
-  20m+ Trees Height Zone



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WEST WATSON PARK




Tree Planting Zones

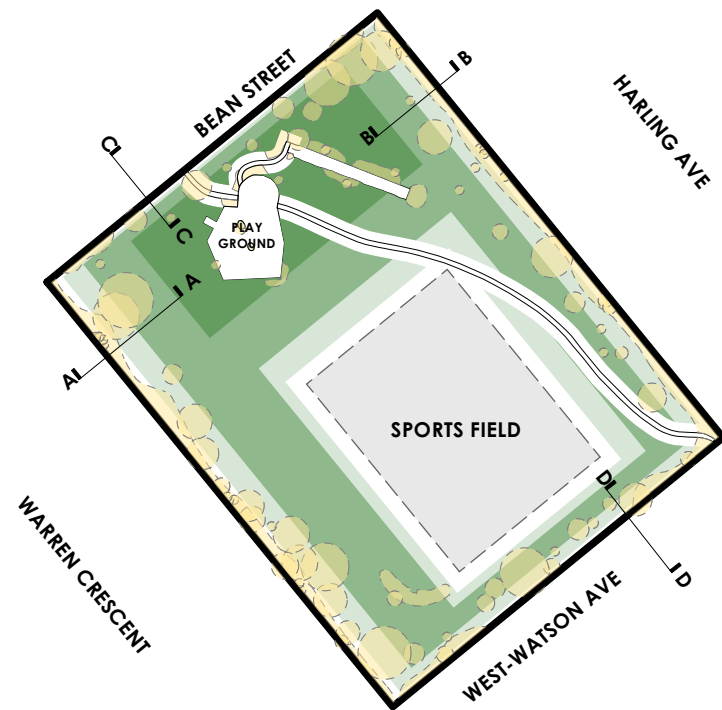
Lot Boundary Cross Sections

LEGEND

-  Existing Tree/
Vegetation
-  Sports field/ Court

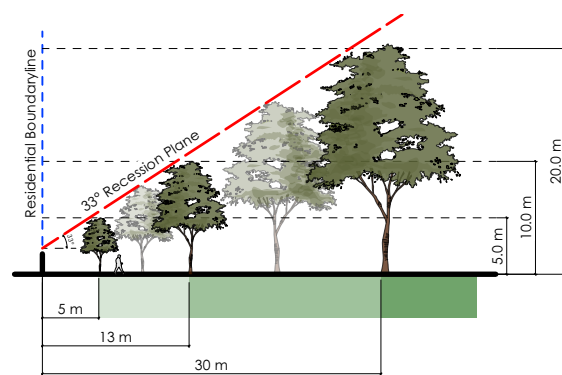
Potential Tree Planting Areas

-  5m - 10m
Trees Height Zone
-  10m - 20m
Trees Height Zone
-  20m+
Trees Height Zone

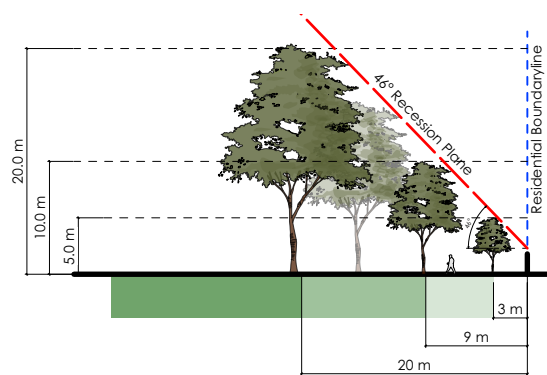


Location Plan @ 1:2000

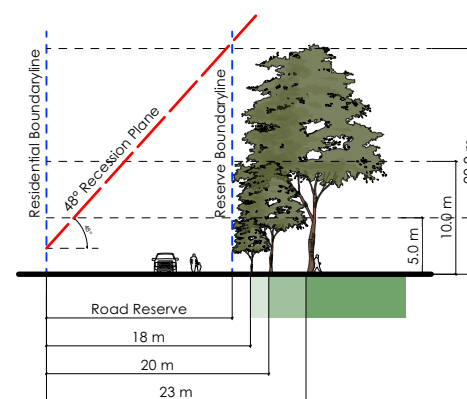
INDICATIVE CROSS SECTION THROUGH THE BOUNDARIES



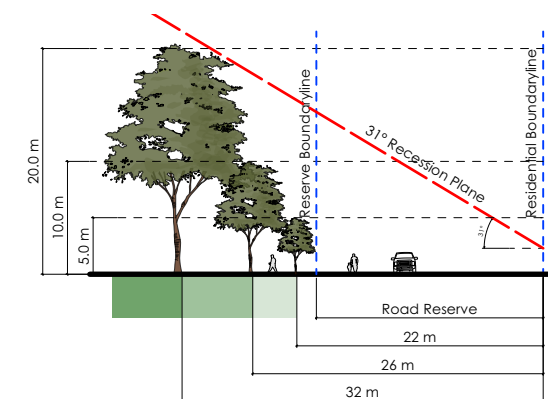
Cross Section A-A



Cross Section B-B



Cross Section C-C



Cross Section D-D

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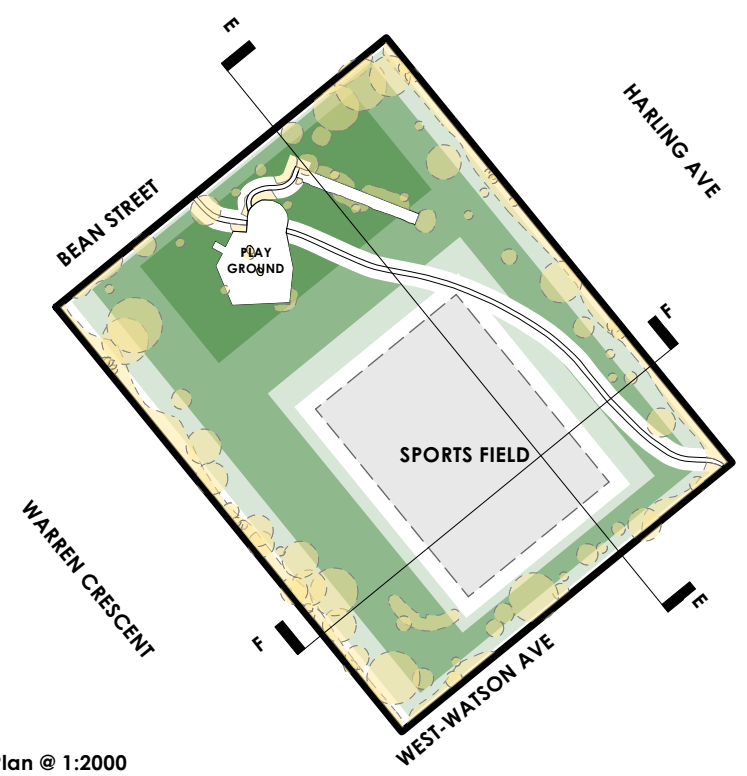
WEST WATSON PARK
 Tree Planting Zones

Sports Field Cross Sections

LEGEND

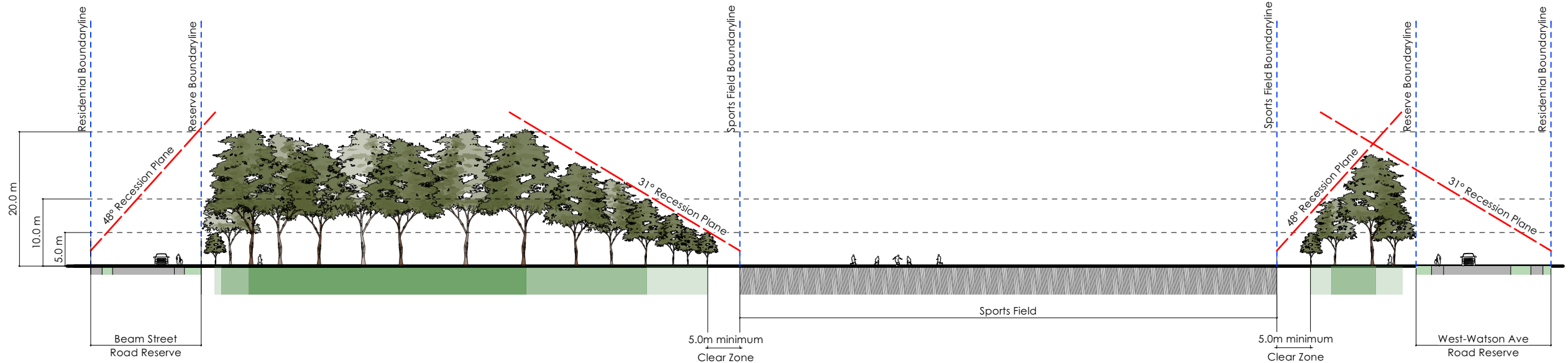
- Existing Tree/ Vegetation
- Sports field/ Court

- Potential Tree Planting Areas
- 5m - 10m Trees Height Zone
 - 10m - 20m Trees Height Zone
 - 20m+ Trees Height Zone

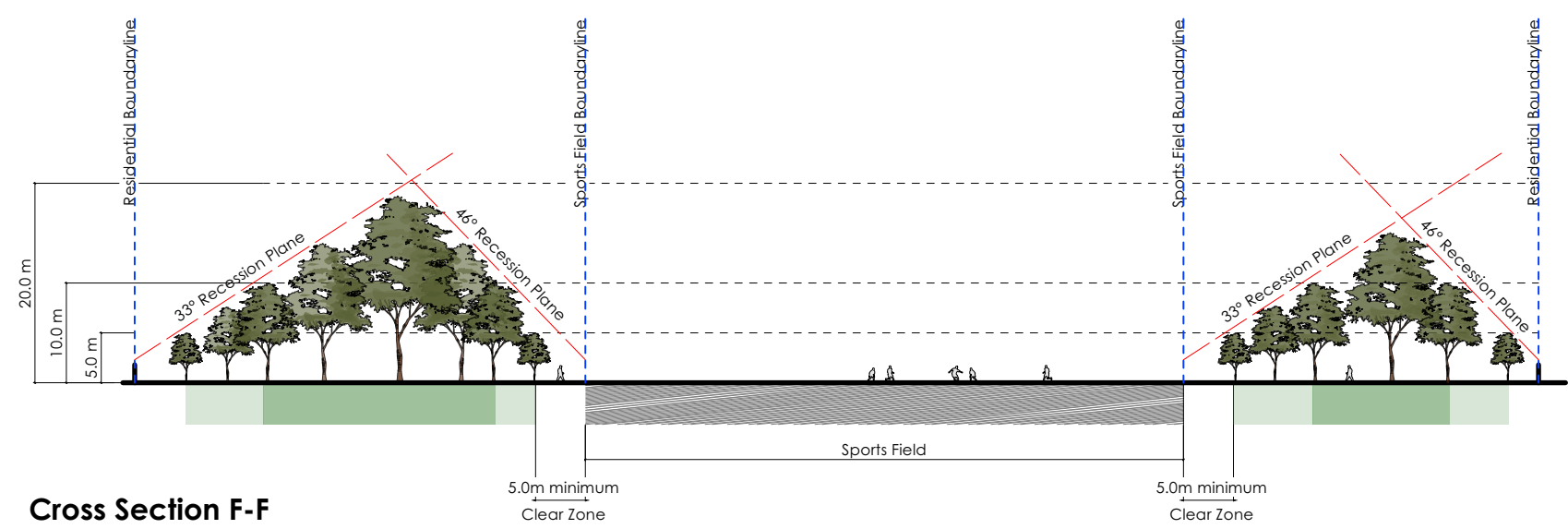


Location Plan @ 1:2000

INDICATIVE CROSS SECTION THROUGH THE SPORTS FIELD



Cross Section E-E



Cross Section F-F

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Winter Solstice

Date: 22nd June

8AM



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WEST WATSON PARK
Shade Study - Winter Solstice

8AM

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

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Winter Solstice

Date: 22nd June

10AM



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WEST WATSON PARK
Shade Study - Winter Solstice

10AM

Note:
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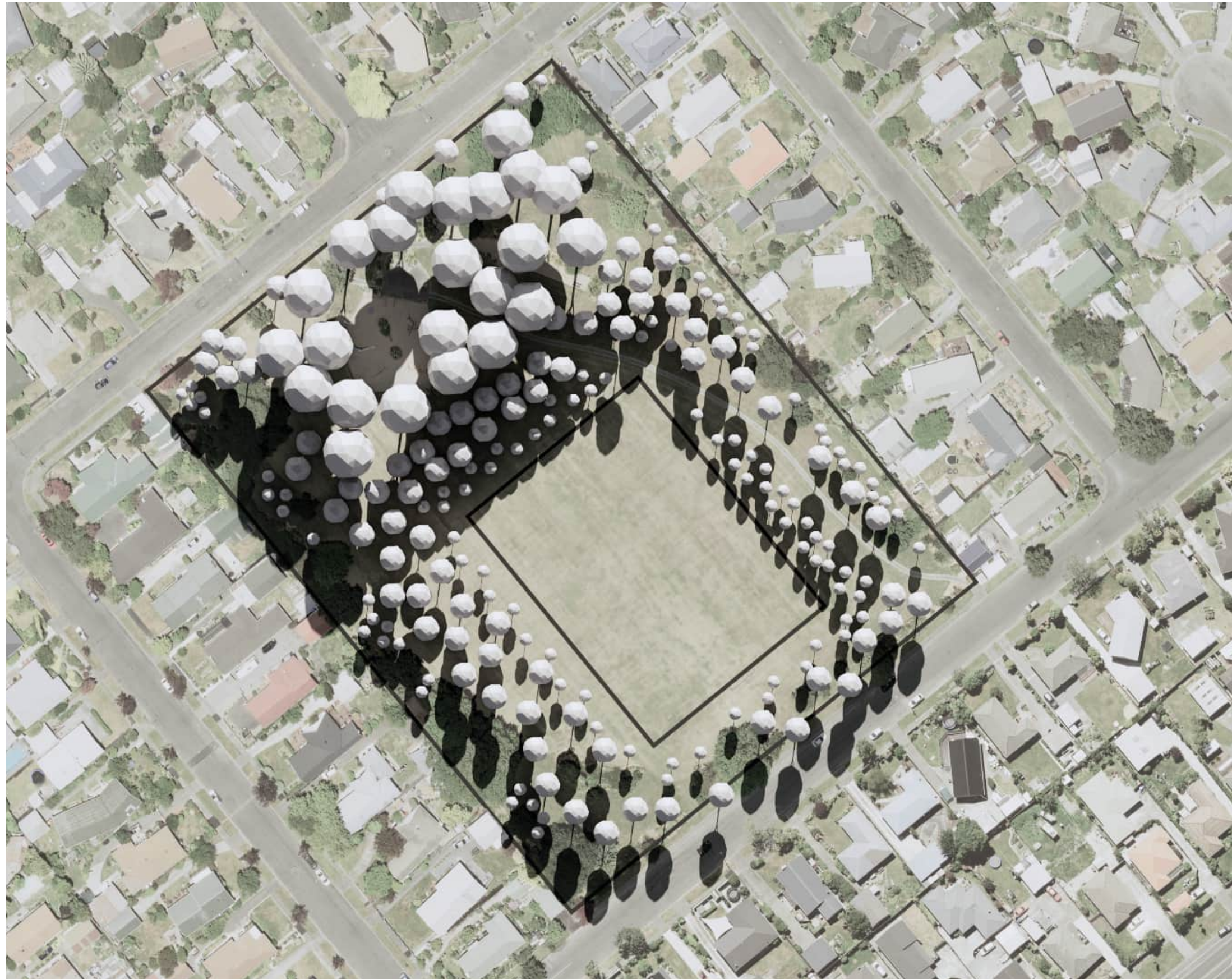
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Winter Solstice

Date: 22nd June

12 NOON



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WEST WATSON PARK
Shade Study - Winter Solstice

12NOON

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Winter Solstice

Date: 22nd June

2PM



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WEST WATSON PARK

Shade Study - Winter Solstice

2PM

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Winter Solstice

Date: 22nd June

4PM



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WEST WATSON PARK
Shade Study - Winter Solstice

4PM

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Winter Solstice

Date: 22nd June

6PM



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WEST WATSON PARK
Shade Study - Winter Solstice

6PM

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WEST WATSON PARK

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WEST WATSON PARK
Indicative Tree Planting Plan

LEGEND

-  Existing Tree/ Vegetation
-  Sports field/ Court

Potential Tree Planting Areas

-  5m - 10m Trees Height Zone
-  10m - 20m Trees Height Zone
-  20m+ Trees Height Zone

PLANT SCHEDULE - EST WATSON PARK

ID	Qty	Botanical Name	Common Name
TREE HEIGHT 5-10M			
Ac.b.	5	Acer buergerianum	Trident Maple
Ar. s.	10	Aristotelia serrata	Wineberry/Makamako
Ch.v.	3	Chionanthus virginicus	Fringe Tree
Co.ro.	3	Coprosma robusta	Karamu
Fr.s.	13	Fraxinus sieboldiana	Siebold Ash
Gr.lu.	7	Griselinia lucida	Puka/Broadleaf
My.a.	5	Myrsine australis	Red Matipo
My.l.	5	Myoporum laetum	Ngaio
Pi.t.	7	Pittosporum tenuifolium	Kohuhu
Pr.c.N.	8	Prunus cerasifera 'Nigra'	Flowering Plum
Pr.y.	9	Prunus yedoensis	Flowering Cherry
Ps.co	9	Pseudowintera colorata	Mountain hotopito
Py.c.A.	8	Pyrus calleryana 'Aristocrat'	Ornamental Pear
So.mi.	11	Sorbus microphylla	Small Leaf Rowan
TREE HEIGHT 11-15M			
Al.i.	8	Alnus incana	Grey Alder
Ca.be.	7	Carpinus betulus	European Hornbeam
Pl.r.	14	Plagianthus regius	Ribbonwood / Manatu
TREE HEIGHT 16-20M			
Al.e.	5	Alectryon excelsus	NZ oak/titoki
Co.a.	6	Cordyline australis	Cabbage tree / Ti Kouka
El.d.	1	Elaeocarpus dentatus	Hinau
Ho.a.	6	Hoheria angustifolia	Narrow leafed lacebark / Houhere
Li.f.	3	Liquidambar formosana	Formosan Gum
Pi.eu.	3	Pittosporum eugenioides	Lemonwood / Tarata
So.m.	5	Sophora microphylla	Kowhai
TREE HEIGHT 20M+			
Fr.or.	2	Fraxinus ornus	Manna Ash
Pl.ac.	1	Platanus x acerifolia	London Plane
Po.t.	4	Podocarpus totara	Totara

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

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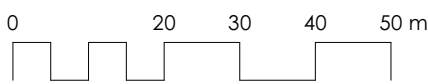
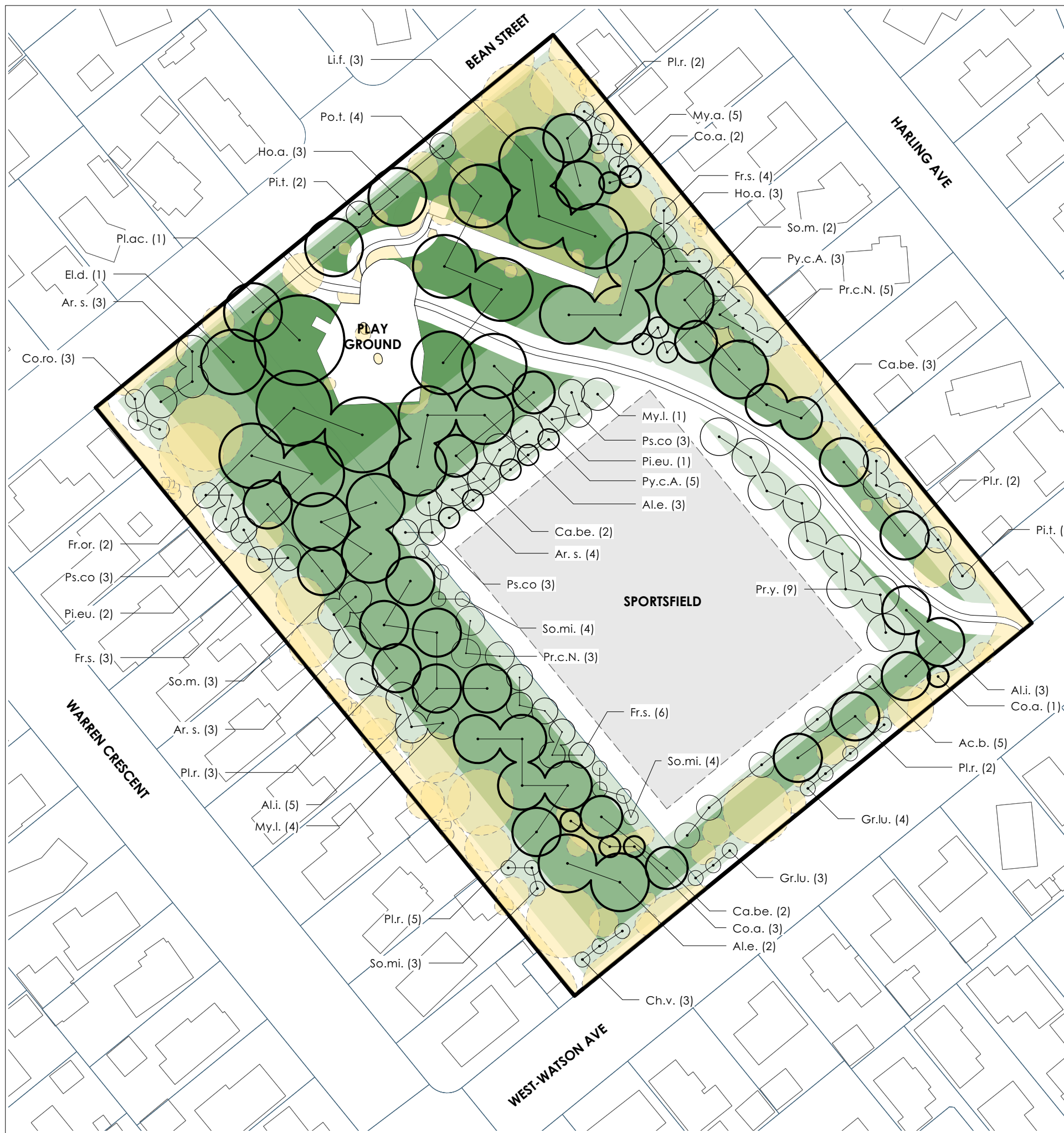
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WEST WATSON PARK	
Park Canopy Cover Summary	
Existing number of trees	77
Existing canopy cover	approx. 20%
Proposed number of new trees	168
Proposed net canopy cover (existing vegetation and proposed)	approx. 61%





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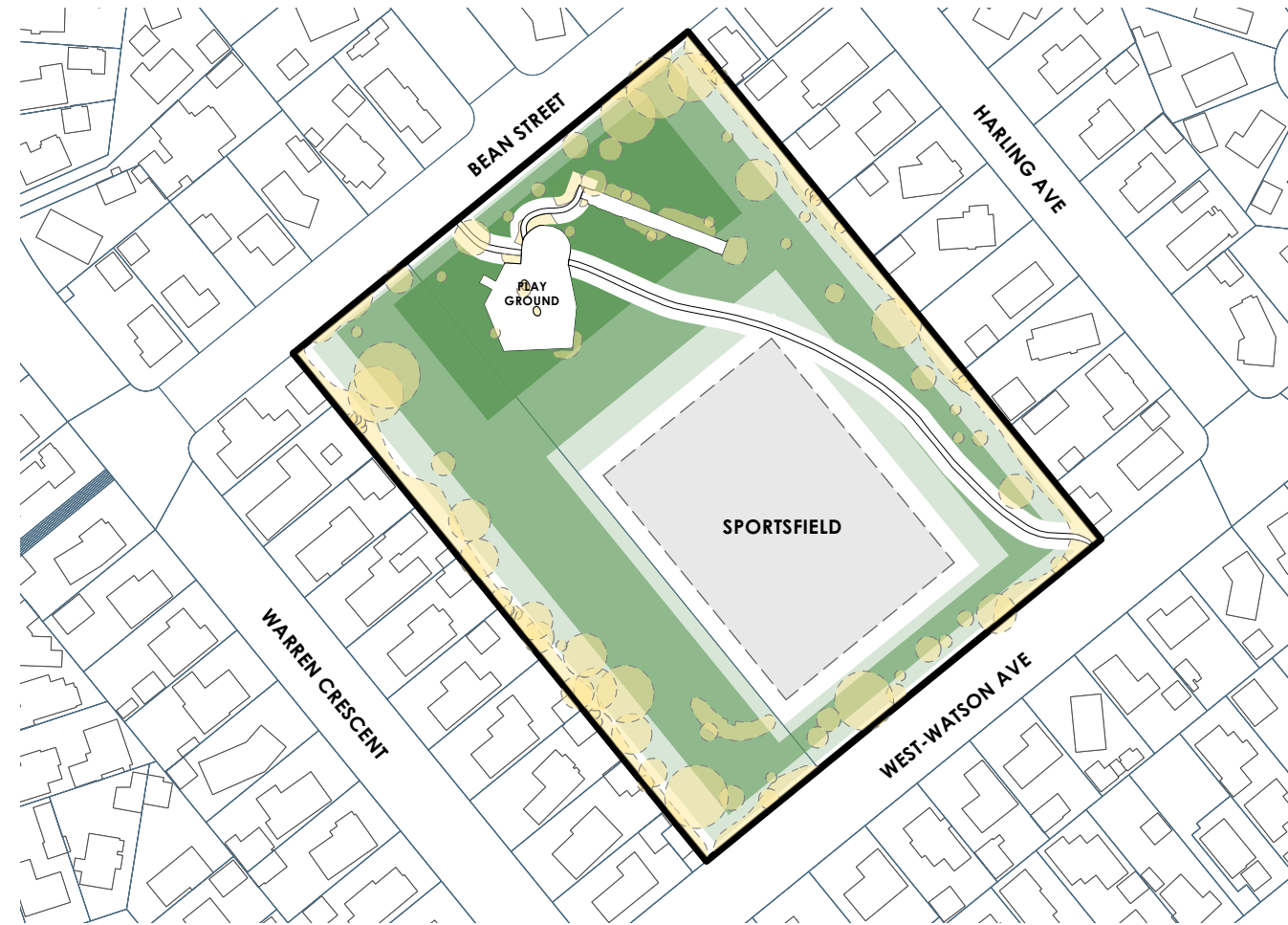
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Tree Planting Guidelines

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Potential Tree Planting Areas

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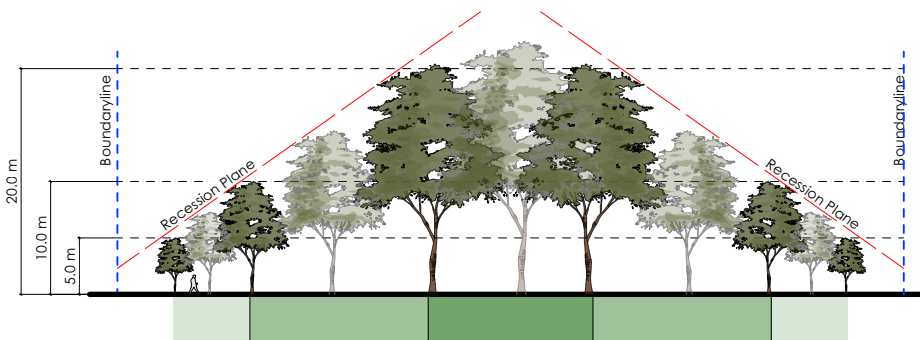
Guideline Summary

- 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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