

PROJECT NAME

HALIFAX RESERVE

ADDRESS

5 Halifax Lane, Bishopdale, Christchurch 8053

CLIENT

Christchurch City Council

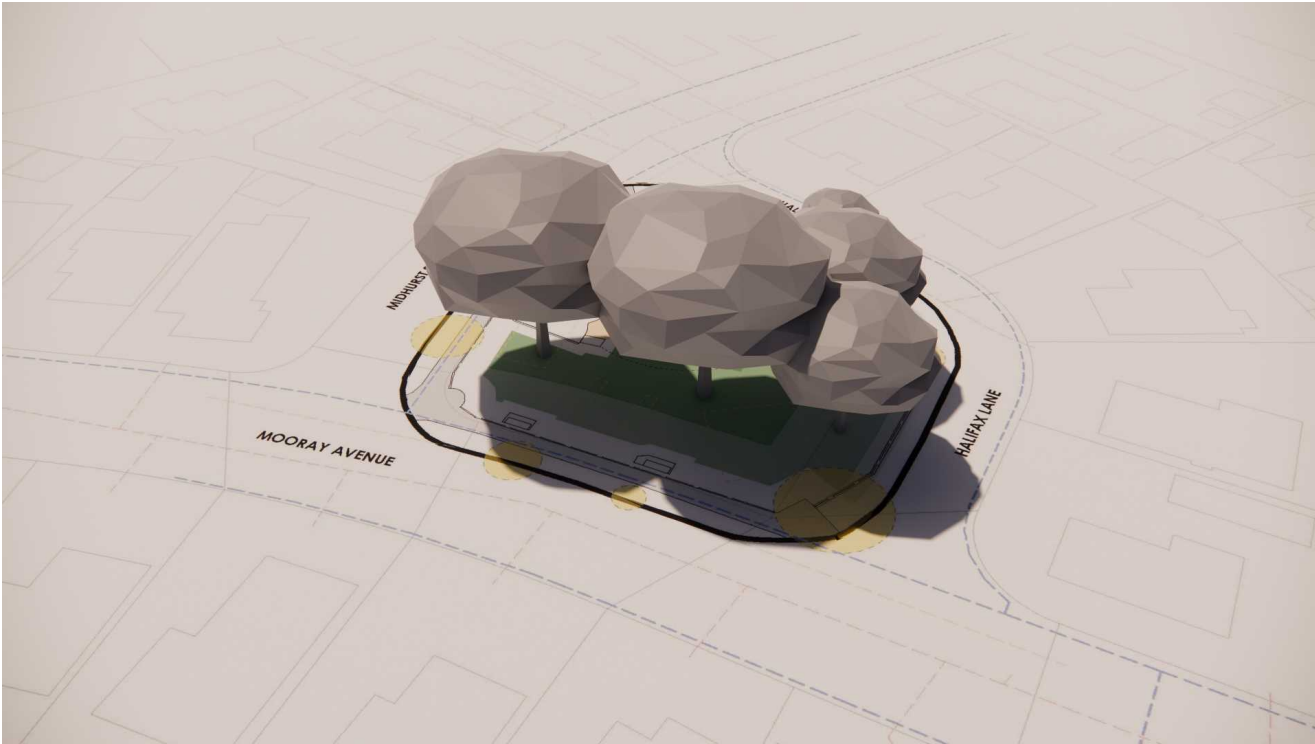
Community Park Tree Planting Study

Issued date

9/06/2025



SHEET NO.	SHEET TITLE
P 00	Community Park Tree Planting Study
P 01	Existing Planting
P 02	Tree Planting Zones
P 03	Tree Planting Zones - Lot Boundary Cross Sections
P 04	Shade Study - Winter Solstice - 8 am
P 05	Shade Study - Winter Solstice - 10 am
P 06	Shade Study - Winter Solstice - 12 noon
P 07	Shade Study - Winter Solstice - 2 pm
P 08	Shade Study - Winter Solstice - 4 pm
P 09	Shade Study - Winter Solstice - 6 pm
P 10	Shade Study - Summer Solstice - 8 am
P 11	Shade Study - Summer Solstice - 10 am
P 12	Shade Study - Summer Solstice - 12 noon
P 13	Shade Study - Summer Solstice - 2 pm
P 14	Shade Study - Summer Solstice - 4 pm
P 15	Shade Study - Summer Solstice - 6 pm
P 16	Tree Planting Plan
P 17	Tree Planting Guidelines



PREPARED BY



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Existing Planting

LEGEND



Existing Tree/
Vegetation



Existing Playground
to be removed

Existing Services



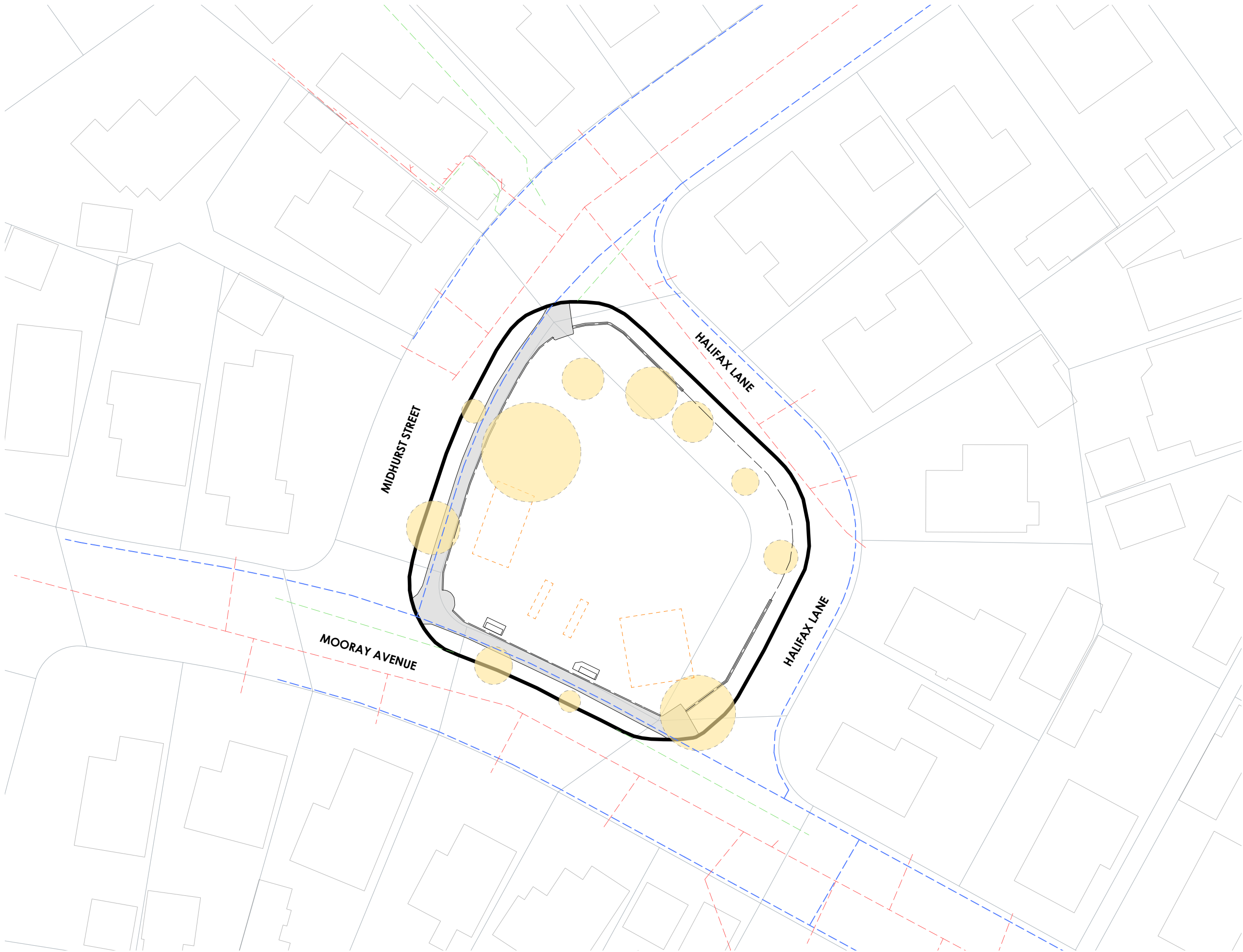
Stormwater



Water supply



Wastewater



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HALIFAX RESERVE

Community Park Tree Planting

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Tree Planting Zones

LEGEND

-  Existing Tree/
Vegetation
-  Existing Playground
to be removed
-  Potential Open
Space area
-  Proposed
Playground
-  Proposed Garden
Beds to Playground

Existing Services

-  Stormwater
-  Water supply
-  Wastewater

Potential Tree Planting Areas

-  5m - 10m
Trees Height Zone
-  10m - 15m
Trees Height Zone
-  15m - 20m
Trees Height Zone
-  20m+
Trees Height Zone

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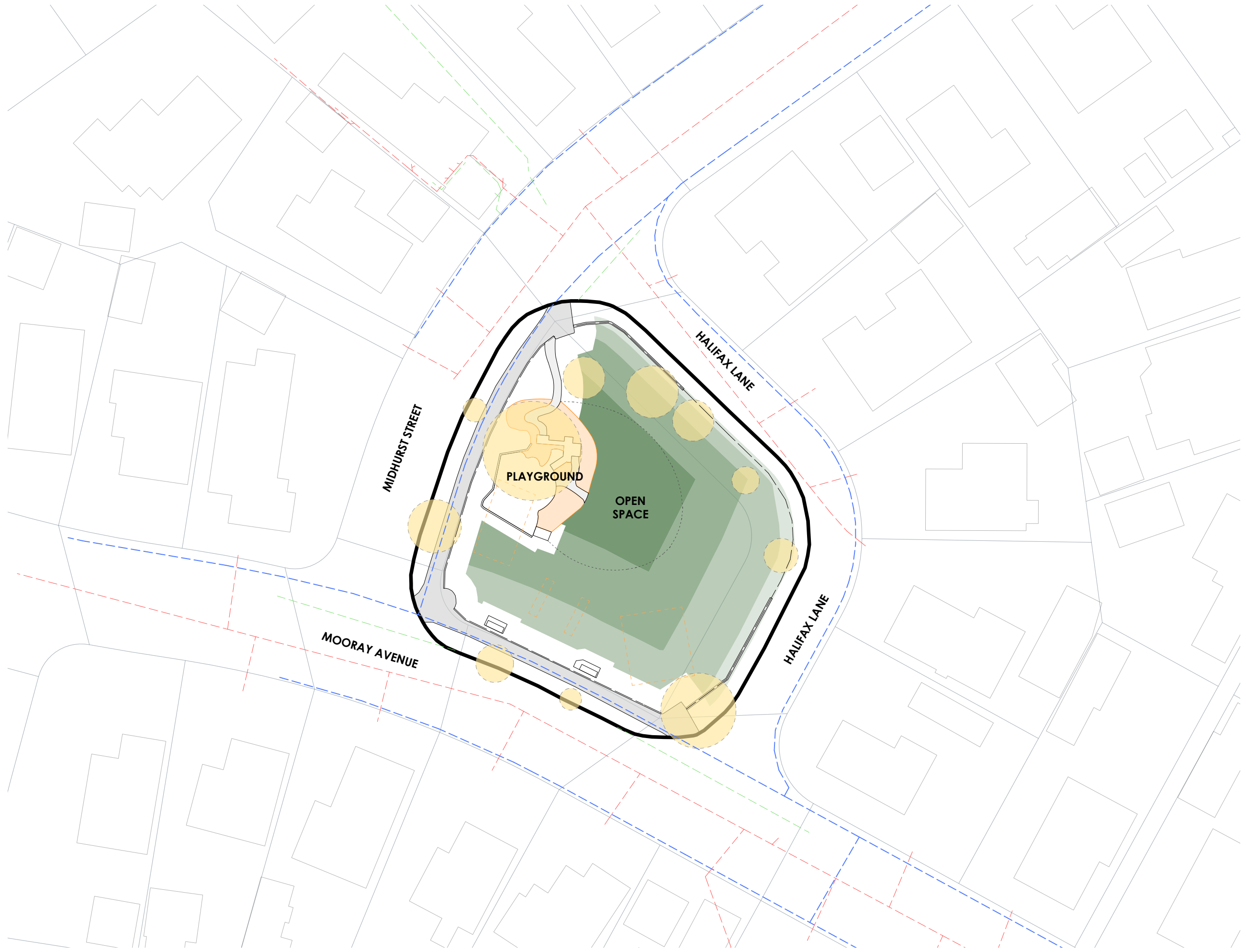
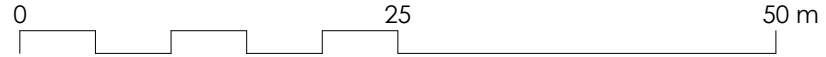


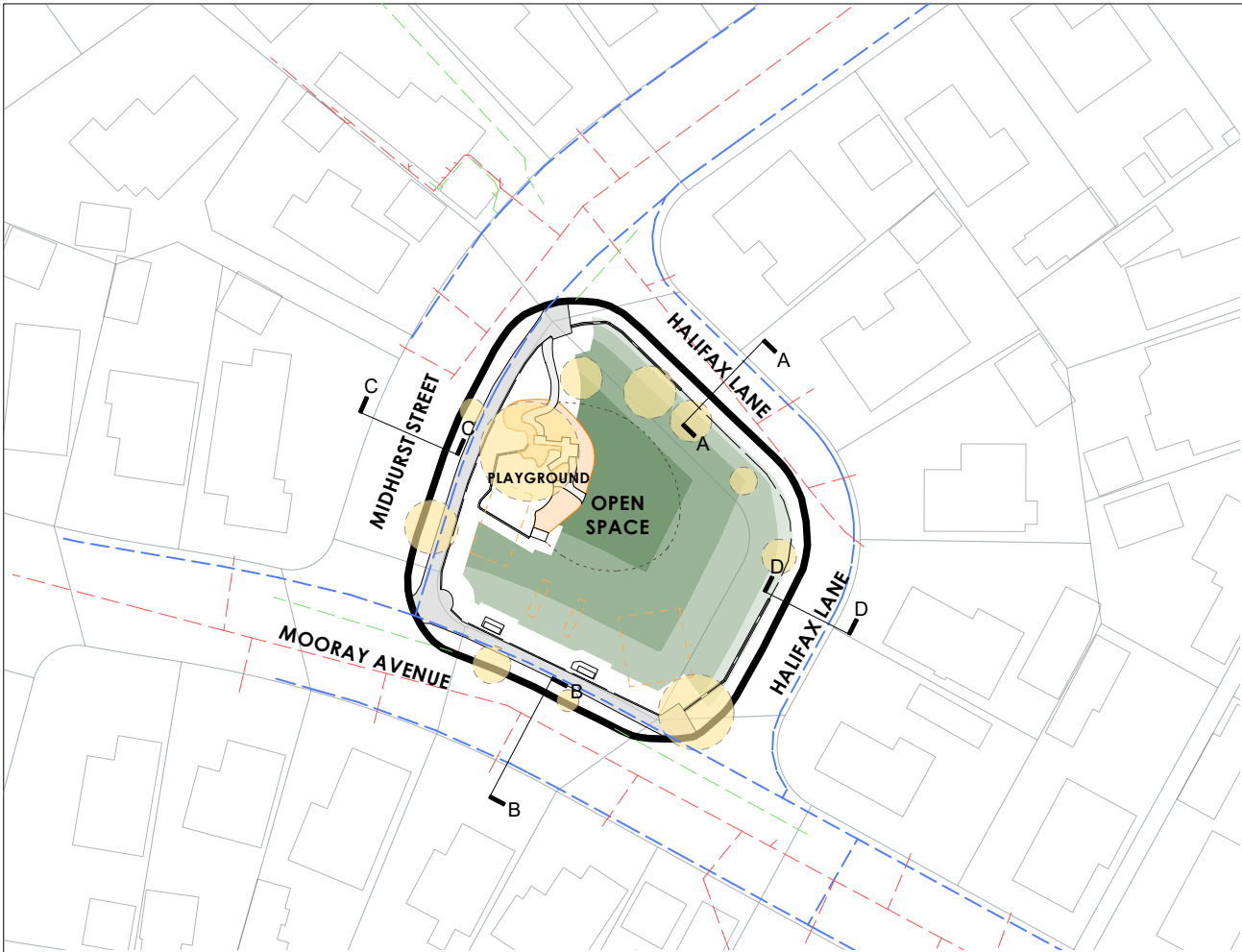
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Location Plan @ 1:1000



HALIFAX RESERVE

Community Park Tree Planting

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Tree Planting Zones - Lot Boundary Cross Sections

LEGEND

- Existing Tree/
Vegetation
- Existing Playground
to be removed
- Potential Open
Space area
- Proposed
Playground
- Proposed Garden
Beds to Playground

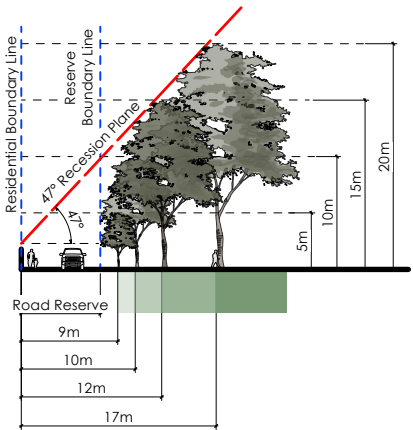
Existing Services

- Stormwater
- Water supply
- Wastewater

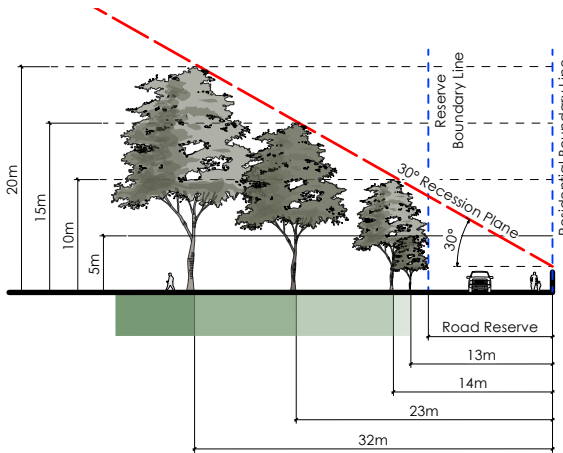
Potential Tree Planting Areas

- 5m - 10m
Trees Height Zone
- 10m - 15m
Trees Height Zone
- 15m - 20m
Trees Height Zone
- 20m+
Trees Height Zone

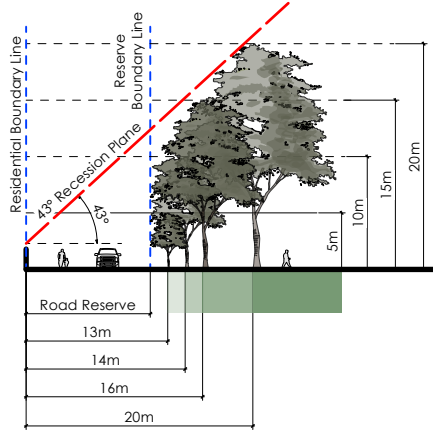
INDICATIVE CROSS SECTION THROUGH THE BOUNDARIES



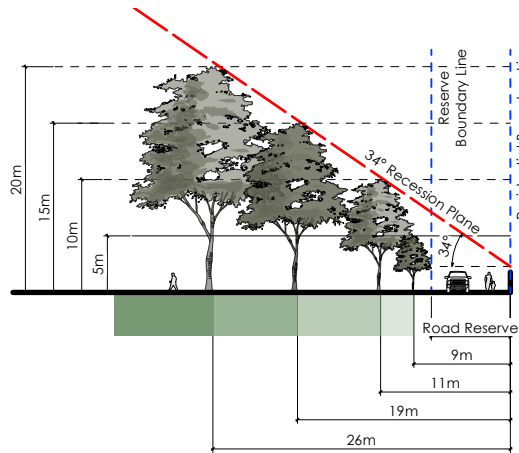
Cross Section A-A



Cross Section B-B



Cross Section C-C



Cross Section D-D

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Winter Solstice
Date: 22nd June

8 am



HALIFAX RESERVE

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**Shade Study - Winter Solstice -
8 am**

Note:
Trees in the model are shown
at 10m, 15m, 20m height

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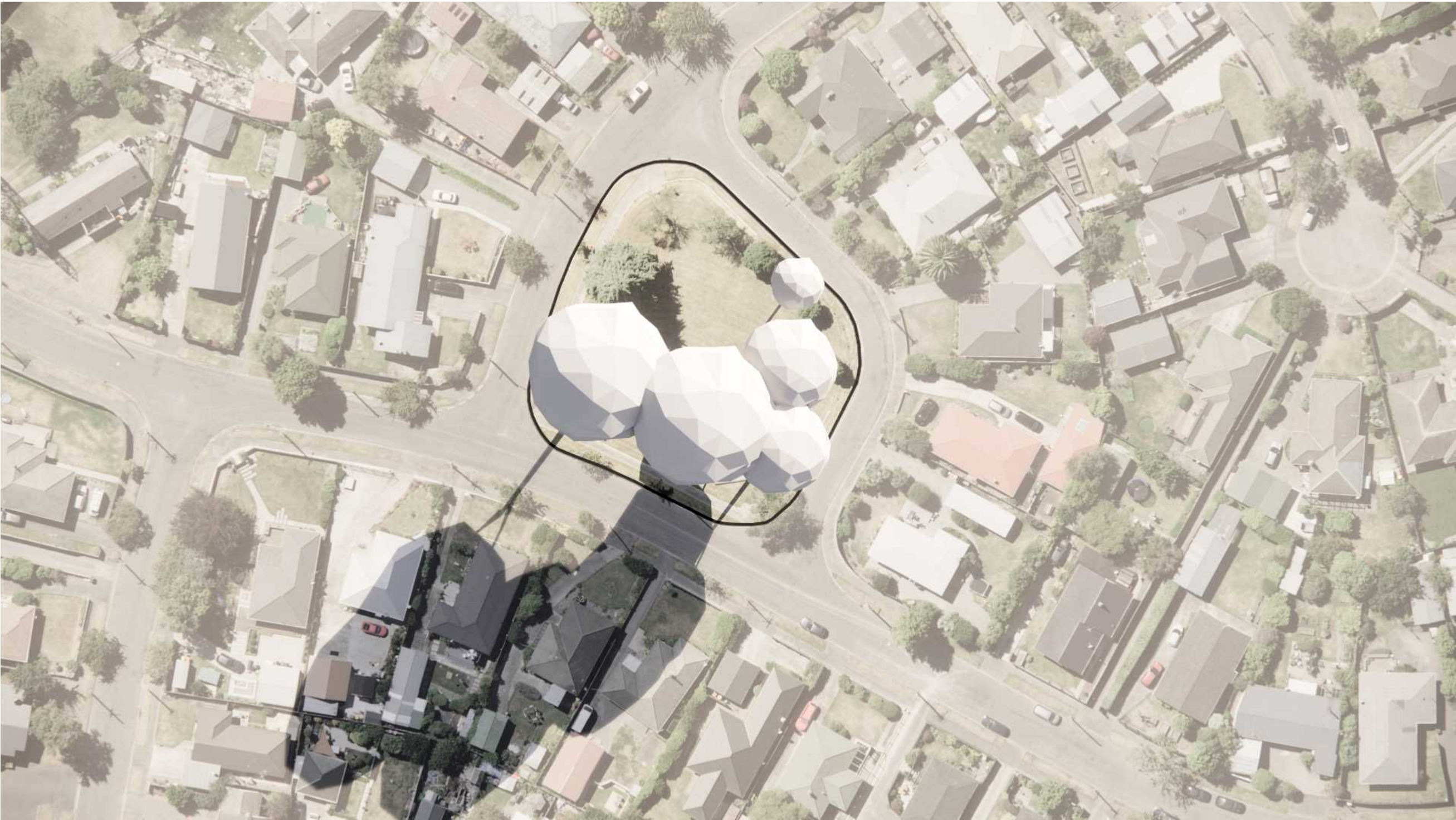
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Winter Solstice
Date: 22nd June

10 am



HALIFAX RESERVE

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Shade Study - Winter Solstice -
10 am

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Winter Solstice
Date: 22nd June

12 noon



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**Shade Study - Winter Solstice -
12 noon**

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Winter Solstice
Date: 22nd June

2 pm



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Shade Study - Winter Solstice -
2 pm

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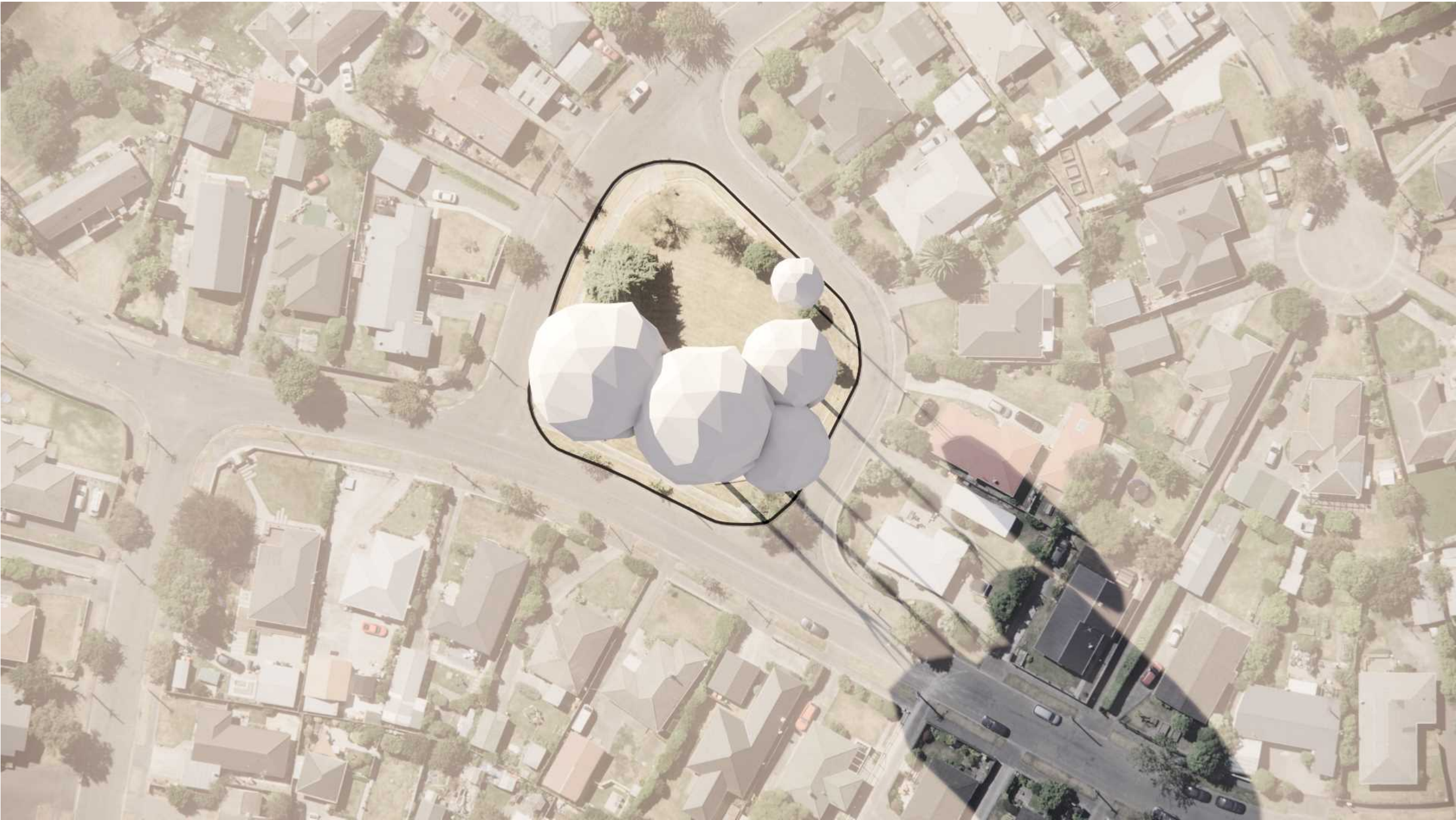
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4 pm



**Shade Study - Winter Solstice -
4 pm**

Note:
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Winter Solstice
Date: 22nd June

6 pm



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**Shade Study - Winter Solstice -
6 pm**

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8 am



**Shade Study - Summer Solstice -
8 am**

Note:
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10 am



Shade Study - Summer Solstice - 10 am

Note:
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12 noon



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Shade Study - Summer Solstice -
12 noon

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2 pm



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Shade Study - Summer Solstice -
2 pm

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Summer Solstice
Date: 22nd December



4 pm



HALIFAX RESERVE

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Shade Study - Summer Solstice -
4 pm

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6 pm



**Shade Study - Summer Solstice -
6 pm**

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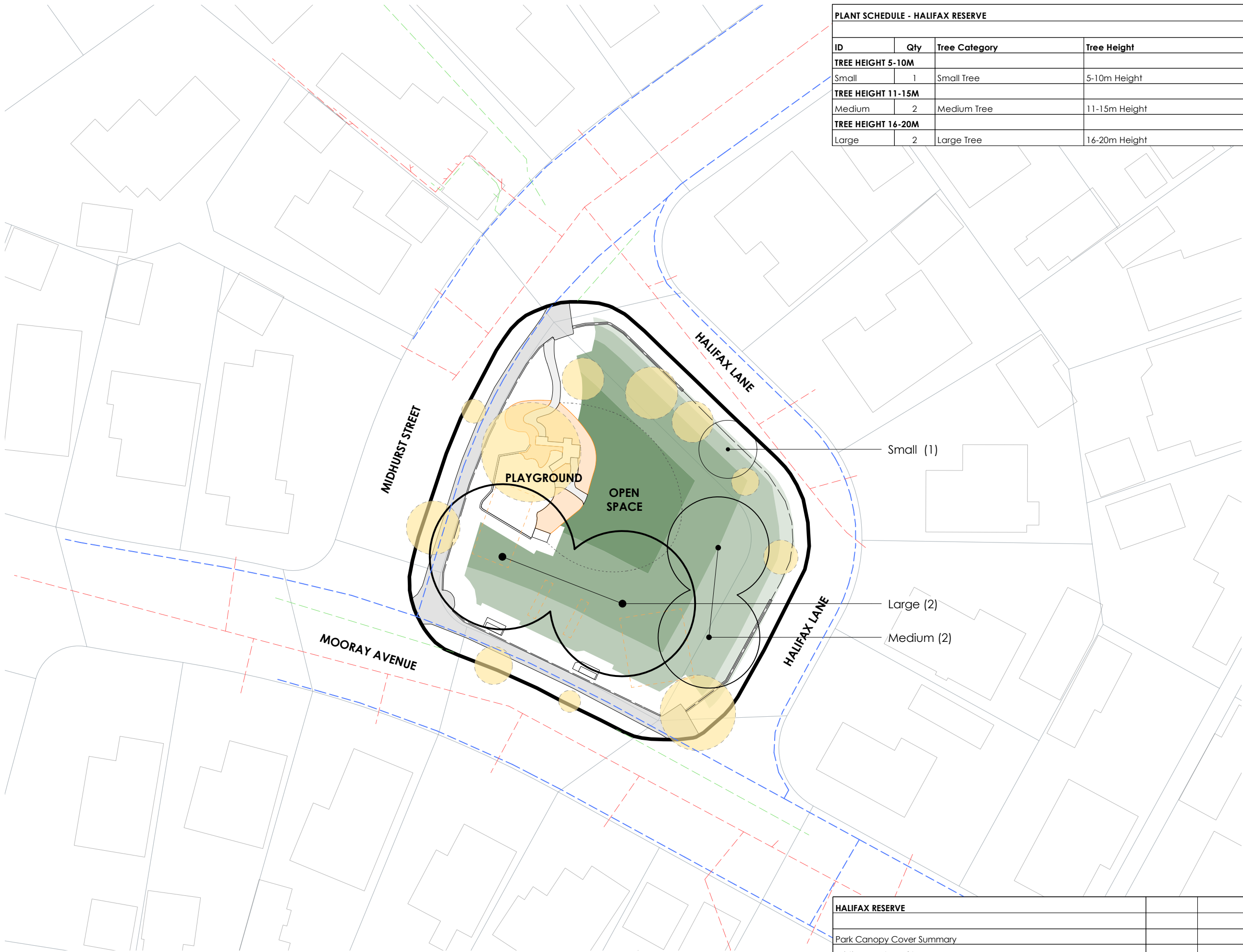


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PLANT SCHEDULE - HALIFAX RESERVE			
ID	Qty	Tree Category	Tree Height
TREE HEIGHT 5-10M			
Small	1	Small Tree	5-10m Height
TREE HEIGHT 11-15M			
Medium	2	Medium Tree	11-15m Height
TREE HEIGHT 16-20M			
Large	2	Large Tree	16-20m Height

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Tree Planting Plan

LEGEND

- Existing Tree/ Vegetation
- Existing Playground to be removed
- Potential Open Space area
- Proposed Playground
- Proposed Garden Beds to Playground

Existing Services

- Stormwater
- Water supply
- Wastewater

Potential Tree Planting Areas

- 5m - 10m Trees Height Zone
- 10m - 15m Trees Height Zone
- 15m - 20m Trees Height Zone
- 20m+ Trees Height Zone

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

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HALIFAX RESERVE		
Park Canopy Cover Summary		
Existing number of trees		11
Existing canopy cover	approx.	17%
Proposed number of new trees		5
Proposed net canopy cover(existing vegetation and proposed)	approx.	56%

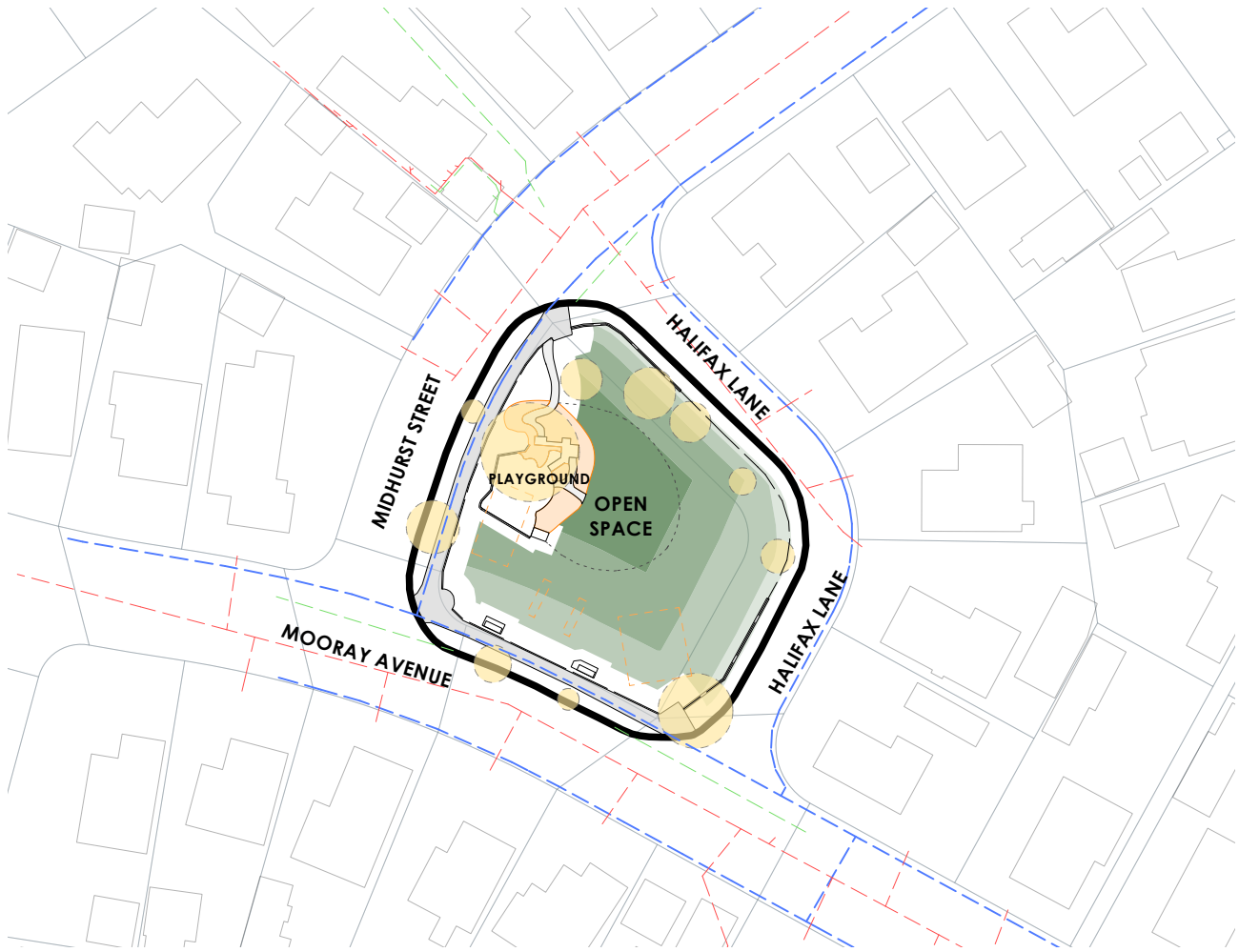
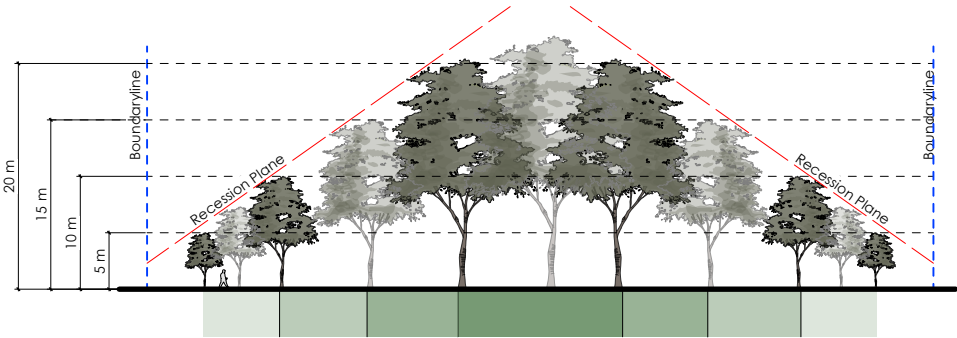
Guideline Summary

- 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. 2.0m offset for low voltage power
- Min. 3.0m offset for 11kv power
- Min. 5.0m offset for 33-66kv
- Min. 2.0m offset for all other services not mentioned above.
- Min. 1.5m offset for all hard paving not mentioned above.

Typical tree planting pattern



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