

PROJECT NAME

SEA EAGLES RESERVE

ADDRESS

6 Tully Lane, North New Brighton, Christchurch 8083

CLIENT

Christchurch City Council

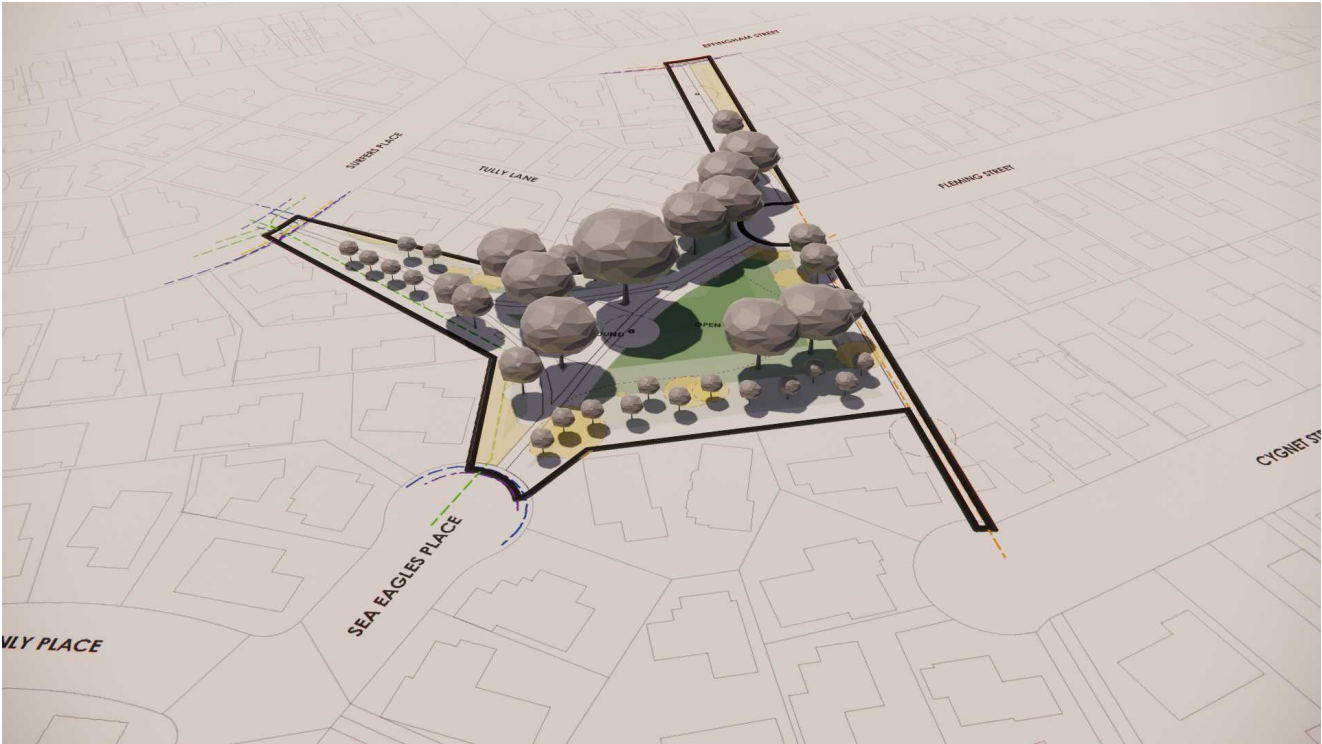
COMMUNITY PARK TREE PLANTING STUDY

Issued date

5/03/2024



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



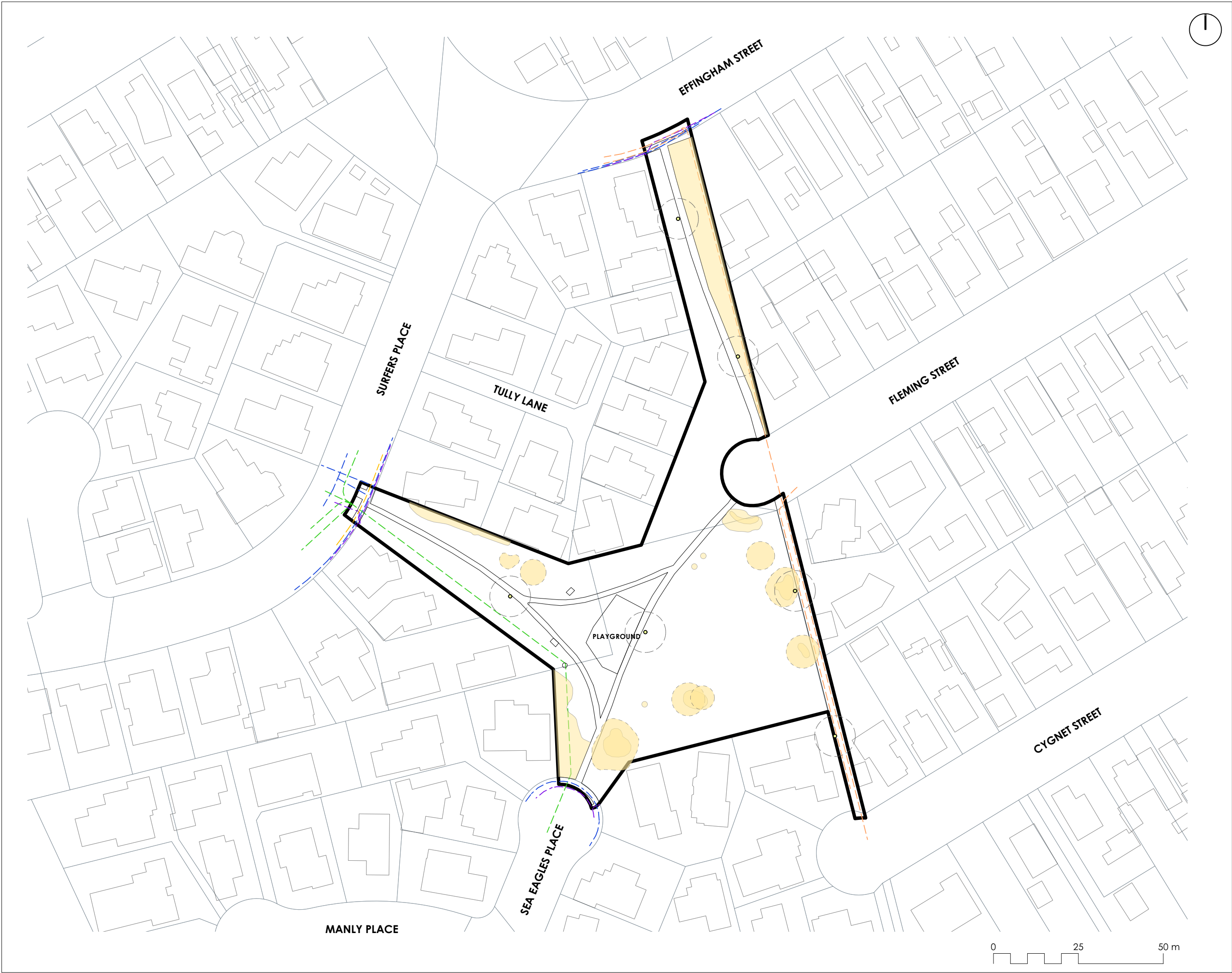
PREPARED BY



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SEA EAGLES RESERVE

Community Park Tree Planting

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SEA EAGLES RESERVE

Existing Planting

- LEGEND**
-  Existing Tree/
Vegetation
- Existing Services
-  Light
 -  Stormwater
 -  Water supply
 -  Wastewater
 -  Power (LV)
 -  Power (11kV)
 -  Enable Fibre

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A



SEA EAGLES RESERVE

Community Park Tree Planting

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SEA EAGLES RESERVE

Tree Planting Zones

LEGEND



Existing Tree/
Vegetation

Existing Services



Light

Stormwater

Water supply

Wastewater

Power (LV)

Power (11kV)

Enable Fibre

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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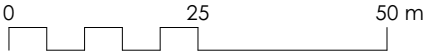
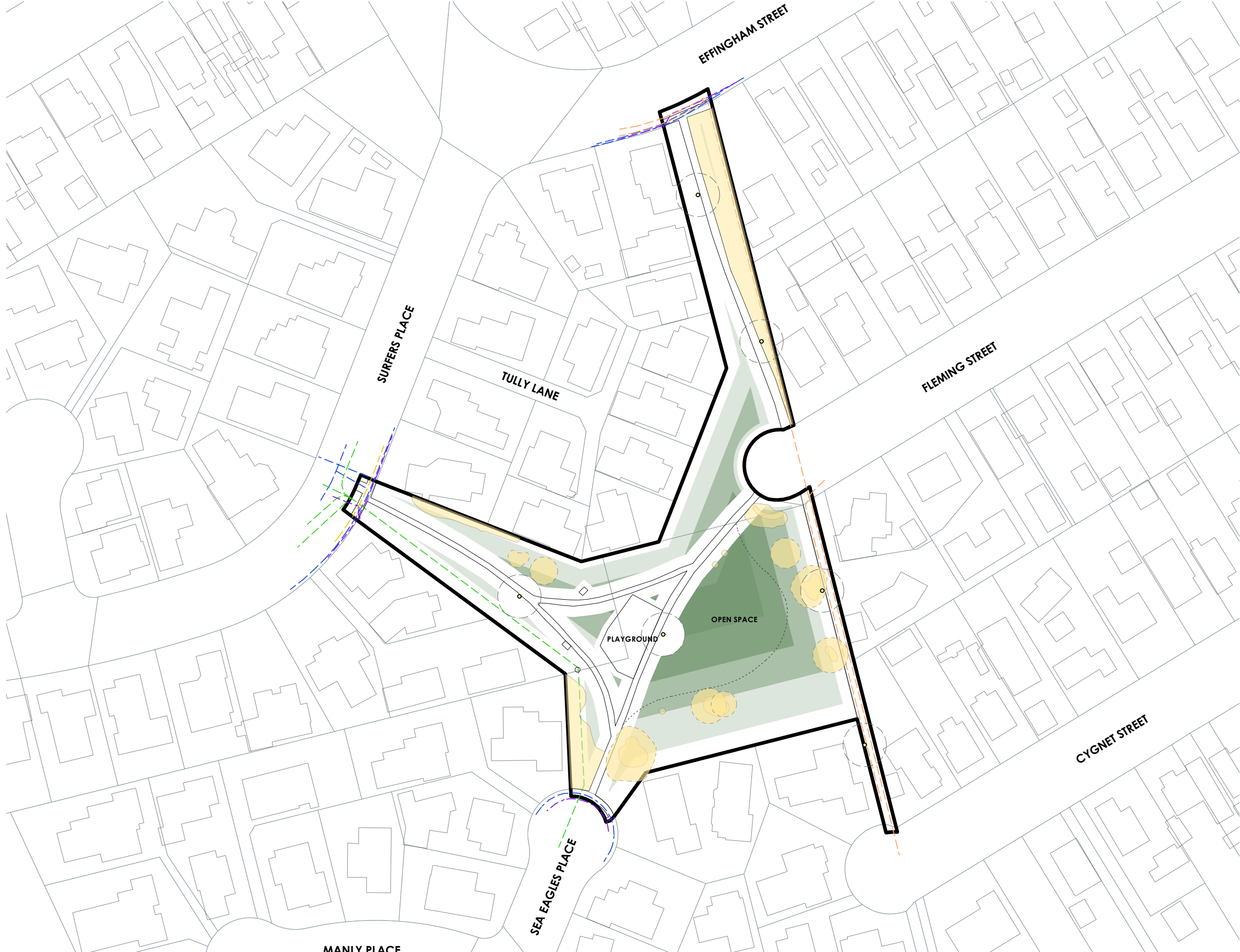
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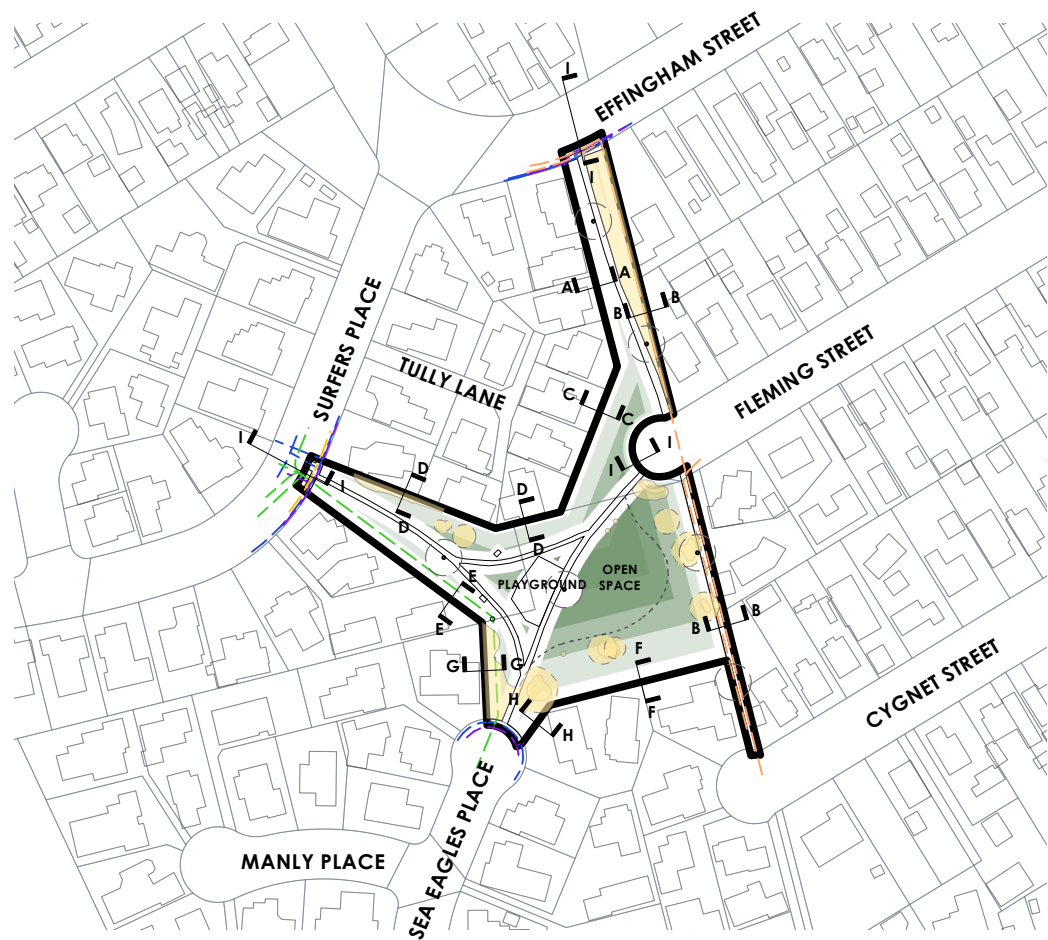
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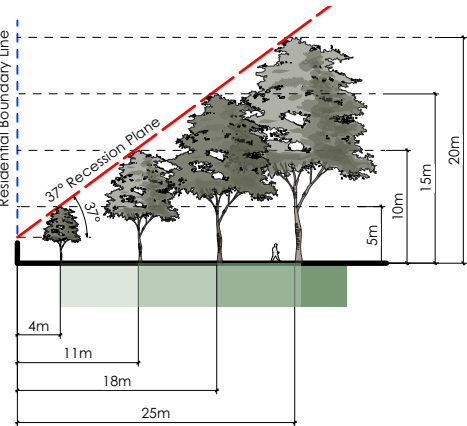
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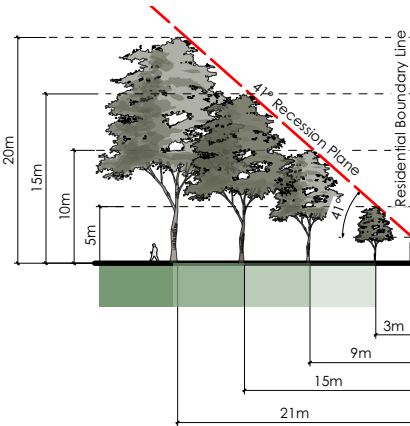




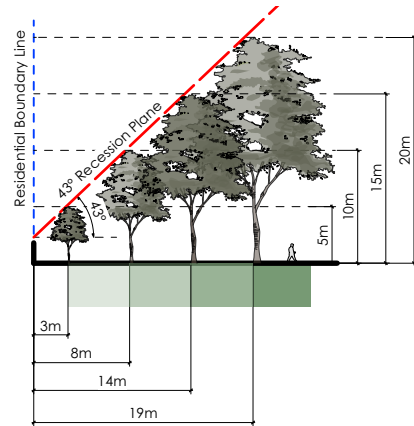
Location Plan @ 1:2500



Cross Section A-A

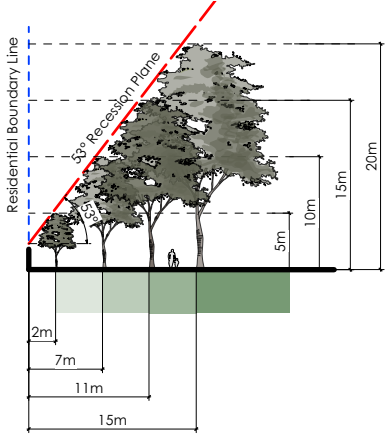


Cross Section B-B

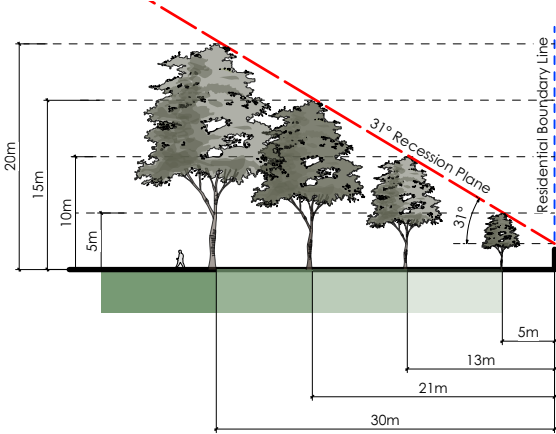


Cross Section C-C

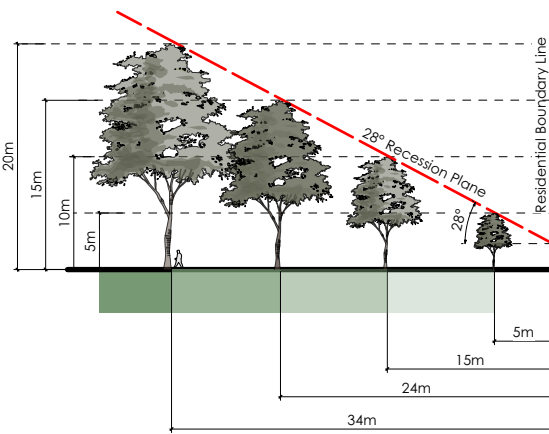
INDICATIVE CROSS SECTION THROUGH THE BOUNDARIES



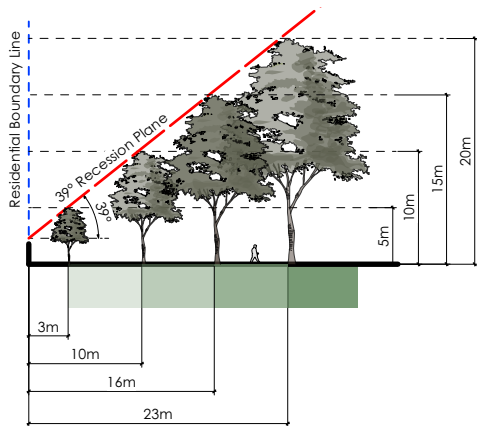
Cross Section D-D



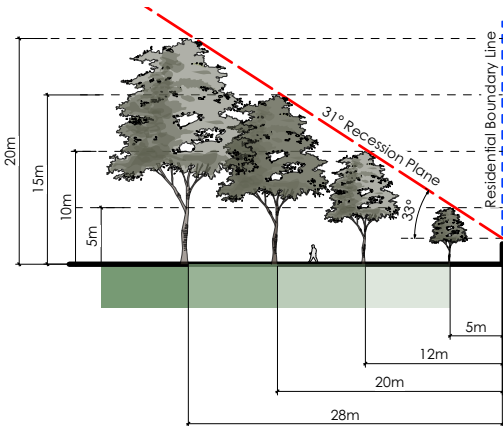
Cross Section E-E



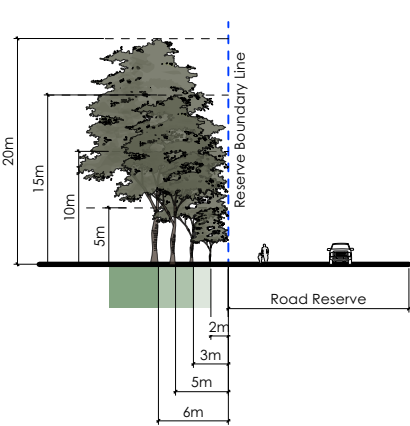
Cross Section F-F



Cross Section G-G



Cross Section H-H



Cross Section I-I



SEA EAGLES RESERVE

Community Park Tree Planting

ADDRESS
6 Tully Lane, North New
Brighton, Christchurch 8083

CLIENT
Christchurch City Council

SEA EAGLES RESERVE

Tree Planting Zones

Lot Boundary Cross Sections

LEGEND



Existing Services

- Light
- Stormwater
- Water supply
- Wastewater
- Power (LV)
- Power (11kV)
- Enable Fibre

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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P 03



Note:
Trees in the model are shown at 10m, 15m, 20m, 25m height

8 am



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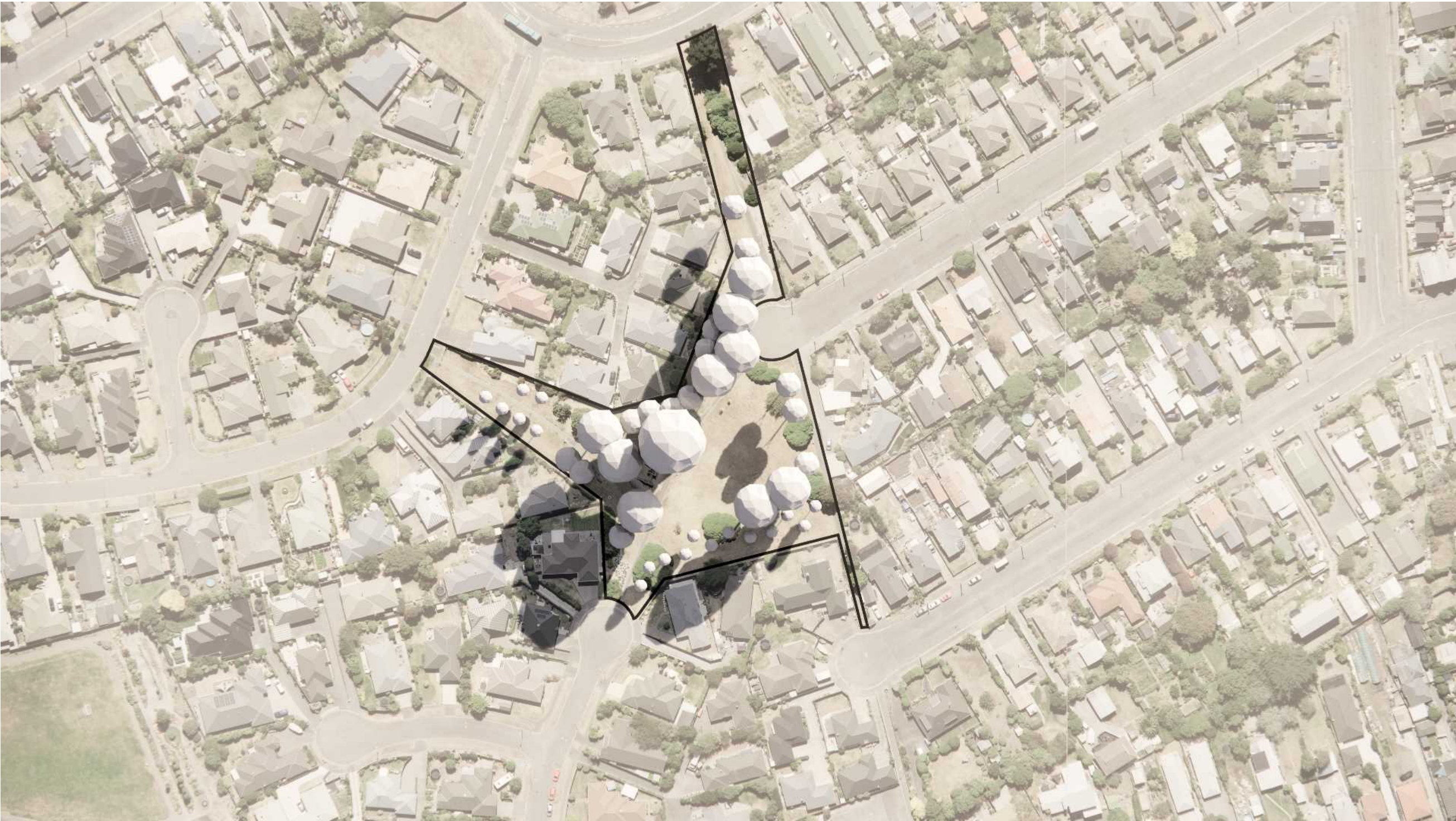
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Winter Solstice
Date: 22nd June

10 am



SEA EAGLES RESERVE

Community Park Tree Planting

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SEA EAGLES RESERVE
Shade Study - Winter Solstice

10 am

Note:
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Winter Solstice
Date: 22nd June

12 noon



SEA EAGLES RESERVE

Community Park Tree Planting

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SEA EAGLES RESERVE

Shade Study - Winter Solstice

12 noon

Note:
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2 pm



Note:
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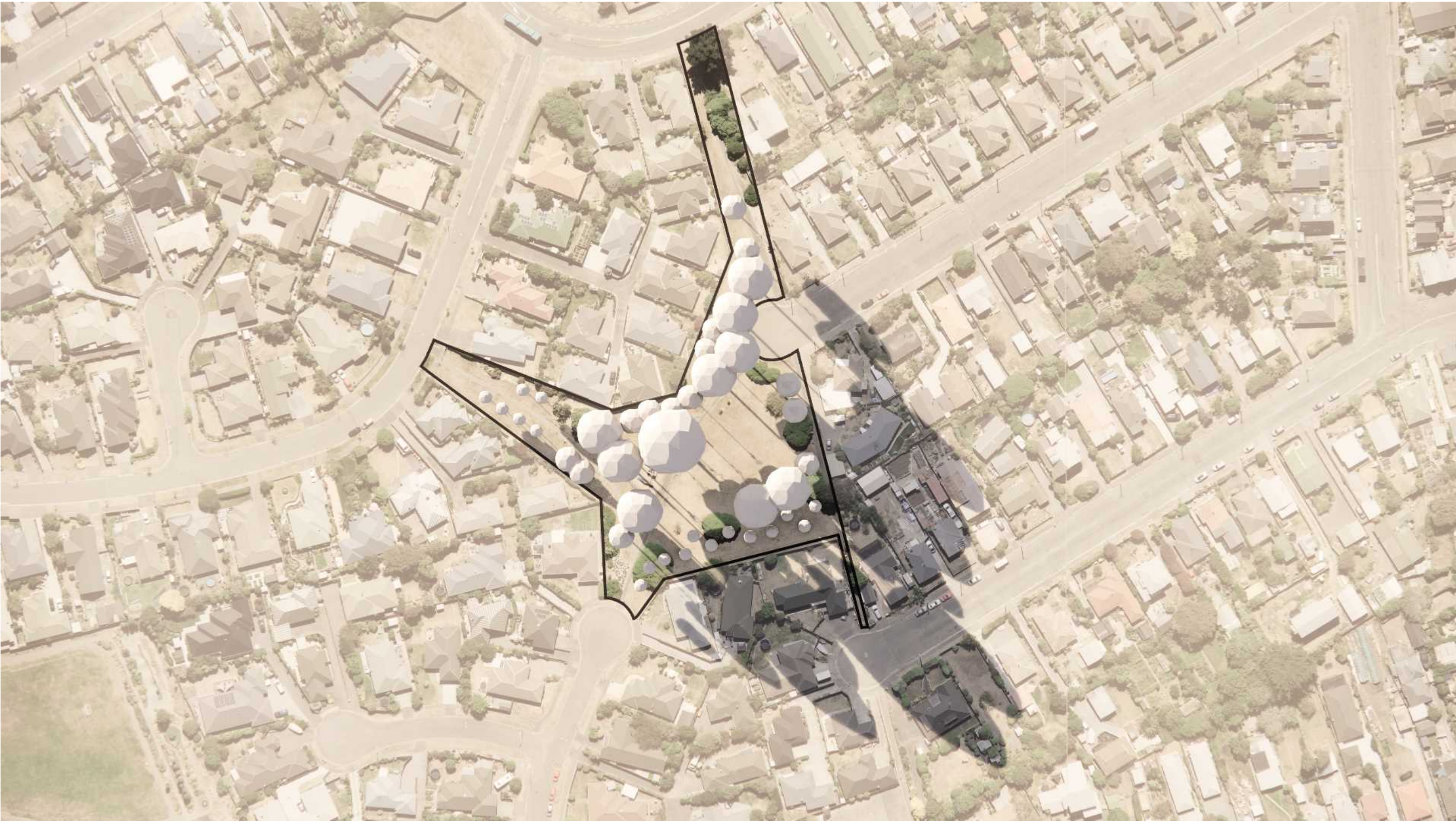
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Winter Solstice
Date: 22nd June

4 pm



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SEA EAGLES RESERVE

Shade Study - Winter Solstice

4 pm

Note:
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Winter Solstice
Date: 22nd June

6 pm



SEA EAGLES RESERVE

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SEA EAGLES RESERVE

Shade Study - Winter Solstice

6 pm

Note:
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8 am



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10 am



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SEA EAGLES RESERVE

Community Park Tree Planting

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SEA EAGLES RESERVE

Shade Study - Summer Solstice

12 noon

Note:
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Summer Solstice
Date: 22nd December

2 pm



SEA EAGLES RESERVE

Community Park Tree Planting

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SEA EAGLES RESERVE

Shade Study - Summer Solstice

2 pm

Note:
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6 pm



Note:
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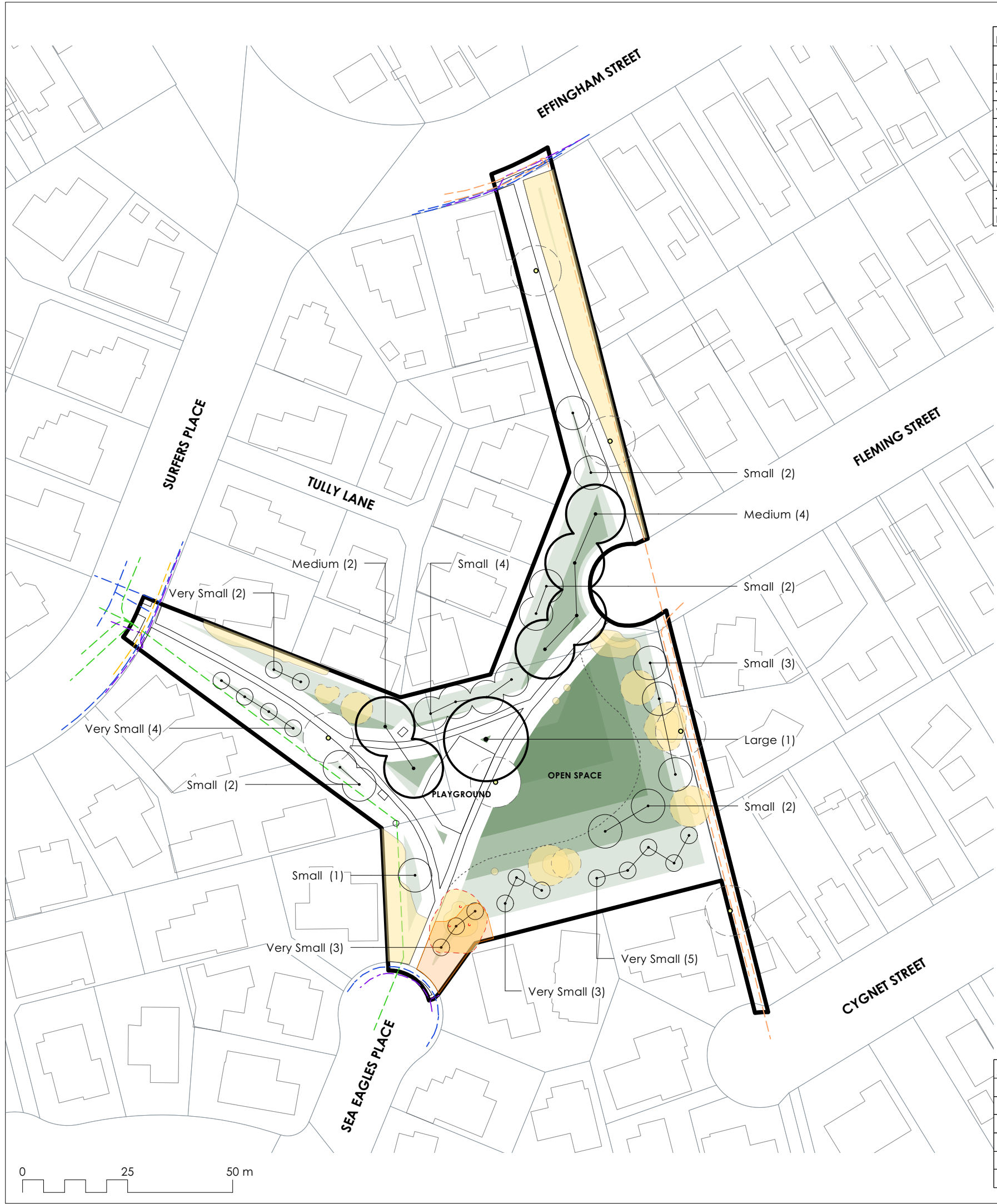


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PLANT SCHEDULE - SEA EAGLES RESERVE			
ID	Qty	Tree Category	Tree Height
TREE HEIGHT 5M			
Very Small	17	Very Small Tree	5m Height
TREE HEIGHT 5-10M			
Small	16	Small Tree	5-10m Height
TREE HEIGHT 11-15M			
Medium	6	Medium Tree	11-15m Height
TREE HEIGHT 16-20M			
Large	1	Large Tree	16-20m Height

SEA EAGLES RESERVE

Community Park Tree Planting

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SEA EAGLES RESERVE
Tree Planting Plan

LEGEND

Existing Tree/ Vegetation

Existing Services

- Light
- Stormwater
- Water supply
- Wastewater
- Power (LV)
- Power (11kV)
- Enable Fibre

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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A

Existing Ngaio tree to be replaced with a tree with a clear trunk (or to have lower limbs pruned) so that sight lines are retained.

Proposed garden bed.

SEA EAGLES RESERVE		
Park Canopy Cover Summary		
Existing number of trees		14
Existing canopy cover	approx.	28%
Proposed number of new trees		40
Proposed net canopy cover(existing vegetation and proposed)	approx.	45%

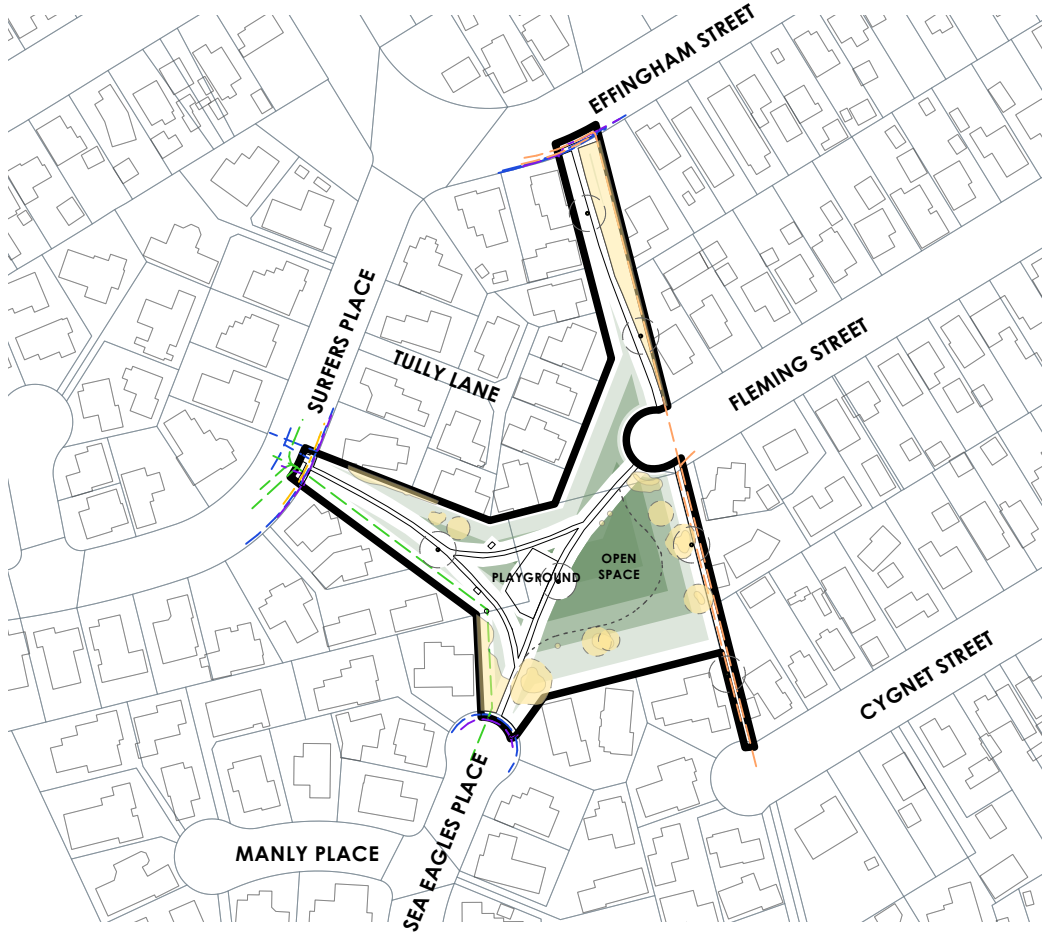
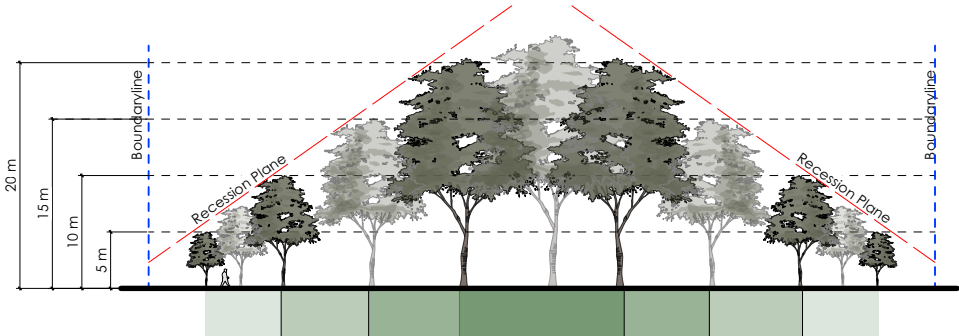
Guideline Summary

- 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. 1.5m offset for all other services and hard paving not mentioned above.

Typical tree planting pattern



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SEA EAGLES RESERVE
Tree Planting Guidelines

LEGEND



Existing Services

- Light
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- Water supply
- Wastewater
- Power (LV)
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Potential Tree Planting Areas

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- 20m+ Trees Height Zone

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