

PROJECT NAME

LOMAX RESERVE

ADDRESS

3 Lomax Place, Islington, Christchurch 8042

CLIENT

Christchurch City Council

COMMUNITY PARK TREE PLANTING STUDY

Issued date

07.02.25



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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REFERENCE NO.

5519



Existing playground to be relocated as it does not comply with the new standard requiring a 10m distance from boundaries

6.7m

PLAYGROUND
EXISTING
PLAYGROUND

LOMAX RESERVE

Community Park Tree Planting

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Existing Planting

LEGEND

Existing Tree/
Vegetation

Existing
Mound/Contour

Existing Services

Light

Stormwater

Water supply

Wastewater

Power (LV)

Enable Fibre

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Community Park Tree Planting

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Tree Planting Zones

LEGEND

- Existing Tree/
Vegetation
- Existing
Mound/Contour
- Potential Open
Space area

Existing Services

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

Potential Tree Planting Areas

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

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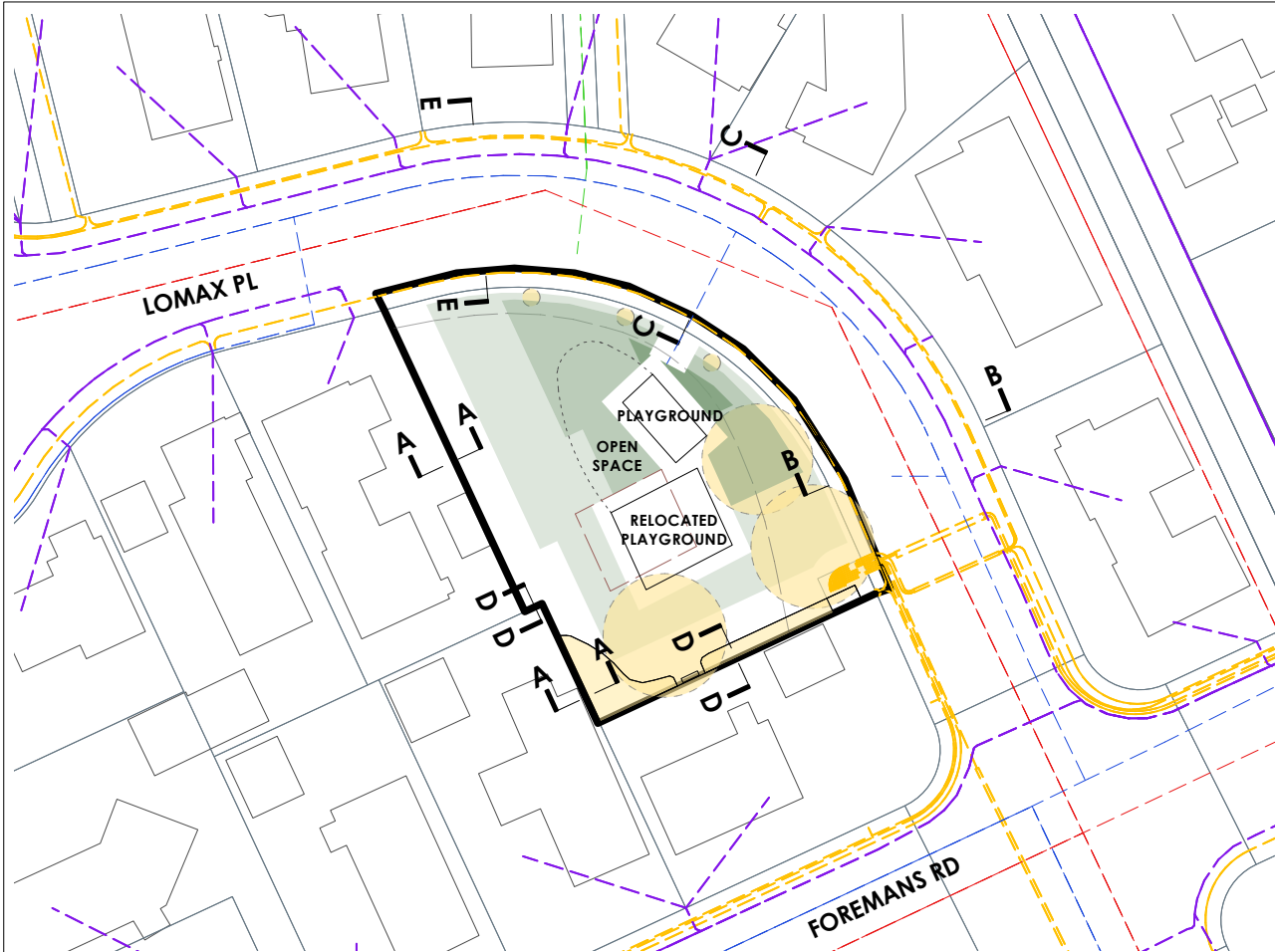


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Location Plan @ 1:750



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Tree Planting Zones -
Lot Boundary Cross Sections

LEGEND

- Existing Tree/
Vegetation
- Existing
Mound/Contour
- Potential Open
Space area

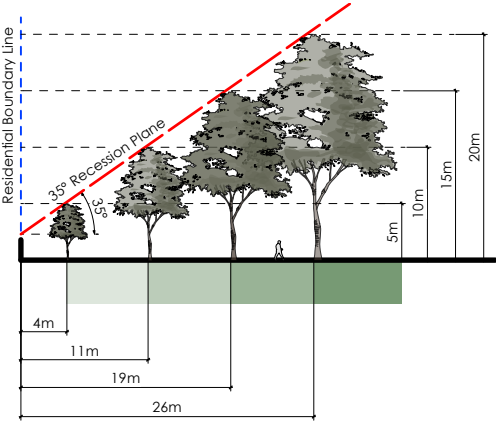
Existing Services

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

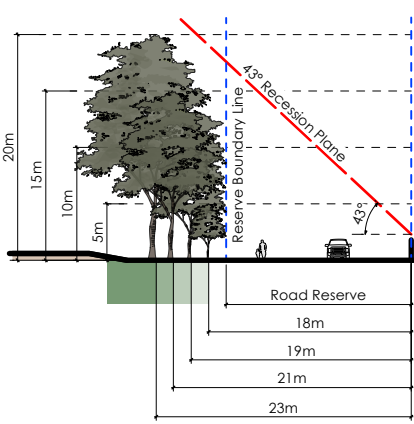
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Trees Height Zone
- 10m - 15m
Trees Height Zone
- 15m - 20m
Trees Height Zone

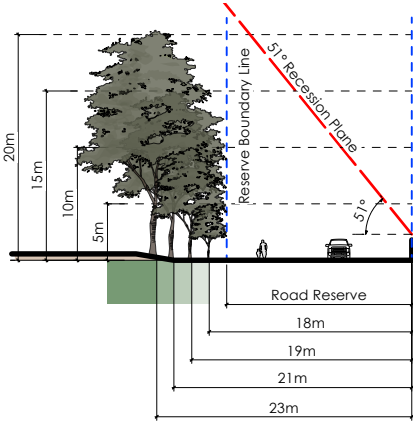
INDICATIVE CROSS SECTION THROUGH THE BOUNDARIES



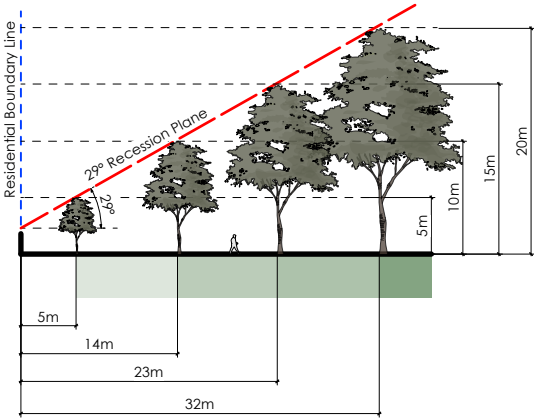
Cross Section A-A



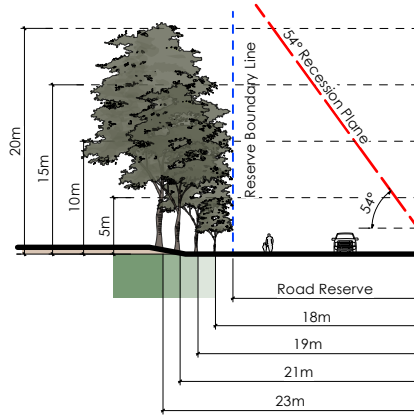
Cross Section B-B



Cross Section C-C



Cross Section D-D



Cross Section E-E

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Winter Solstice
Date: 22nd June



8 am



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

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

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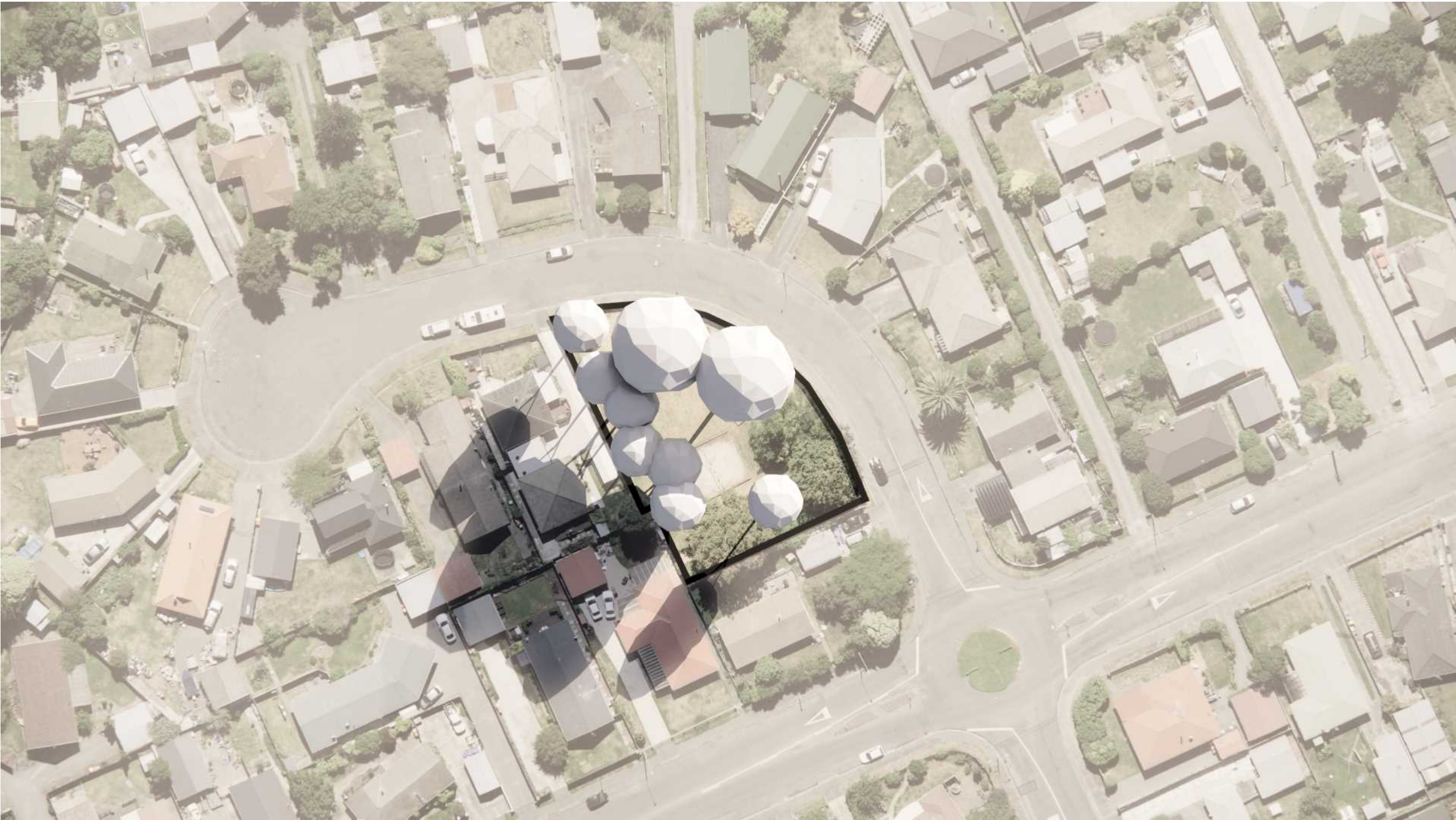
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Winter Solstice
Date: 22nd June

10 am



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10 am

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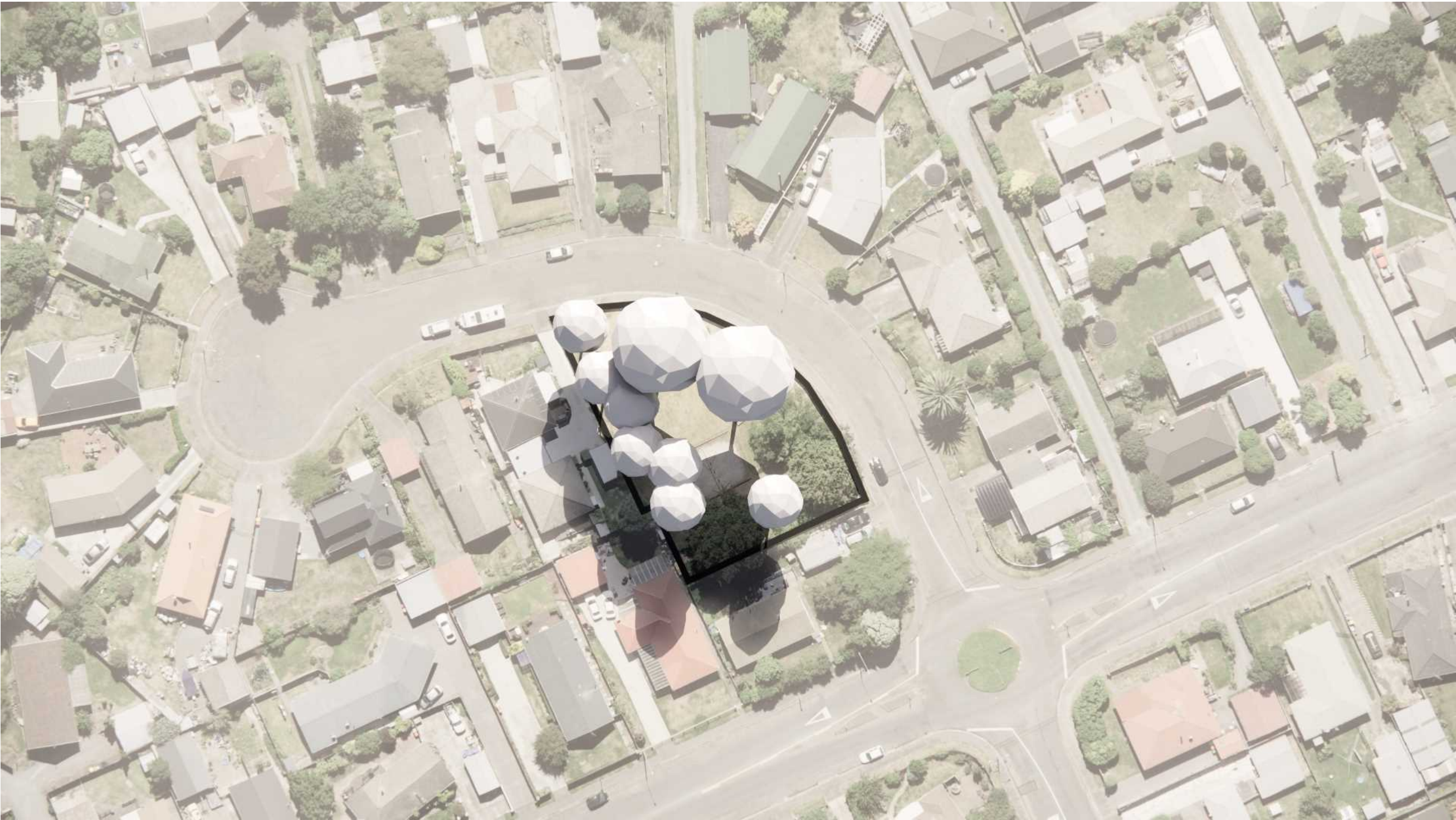
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P 05



12 noon



Note:
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Note:
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2 pm



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Winter Solstice
Date: 22nd June

4 pm



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

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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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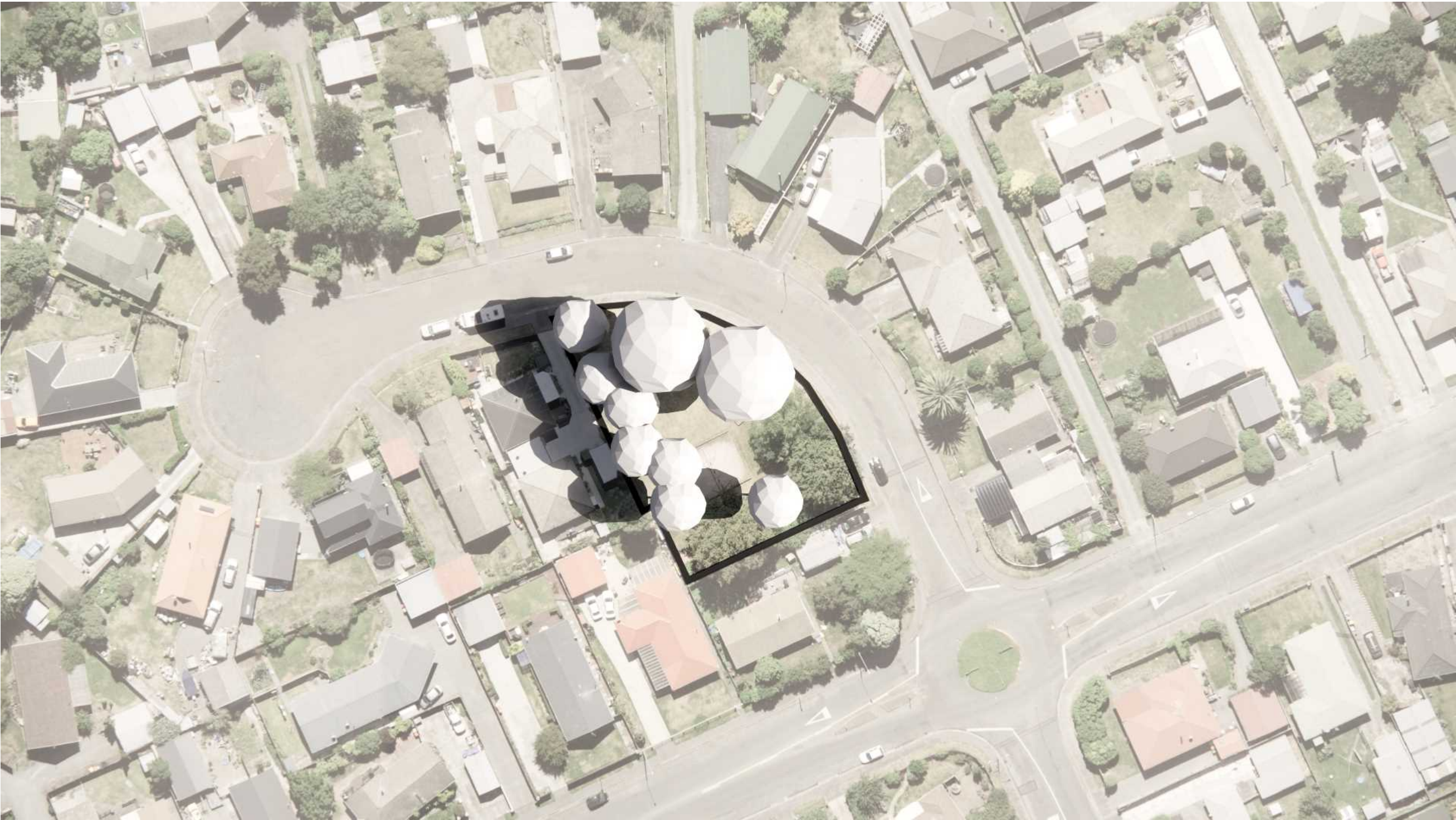
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Note:
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8 am



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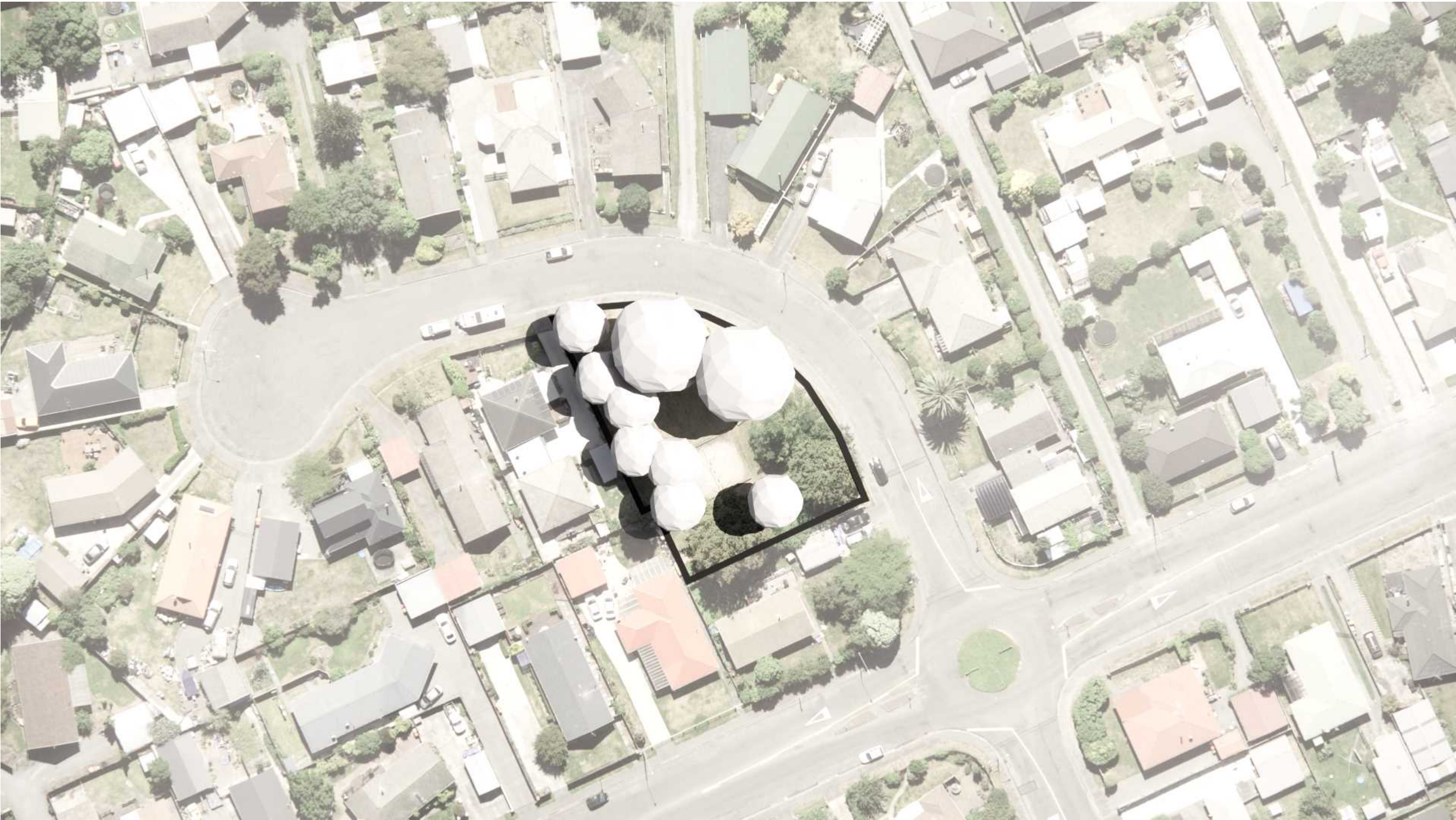
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Note:
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10 am



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12 noon



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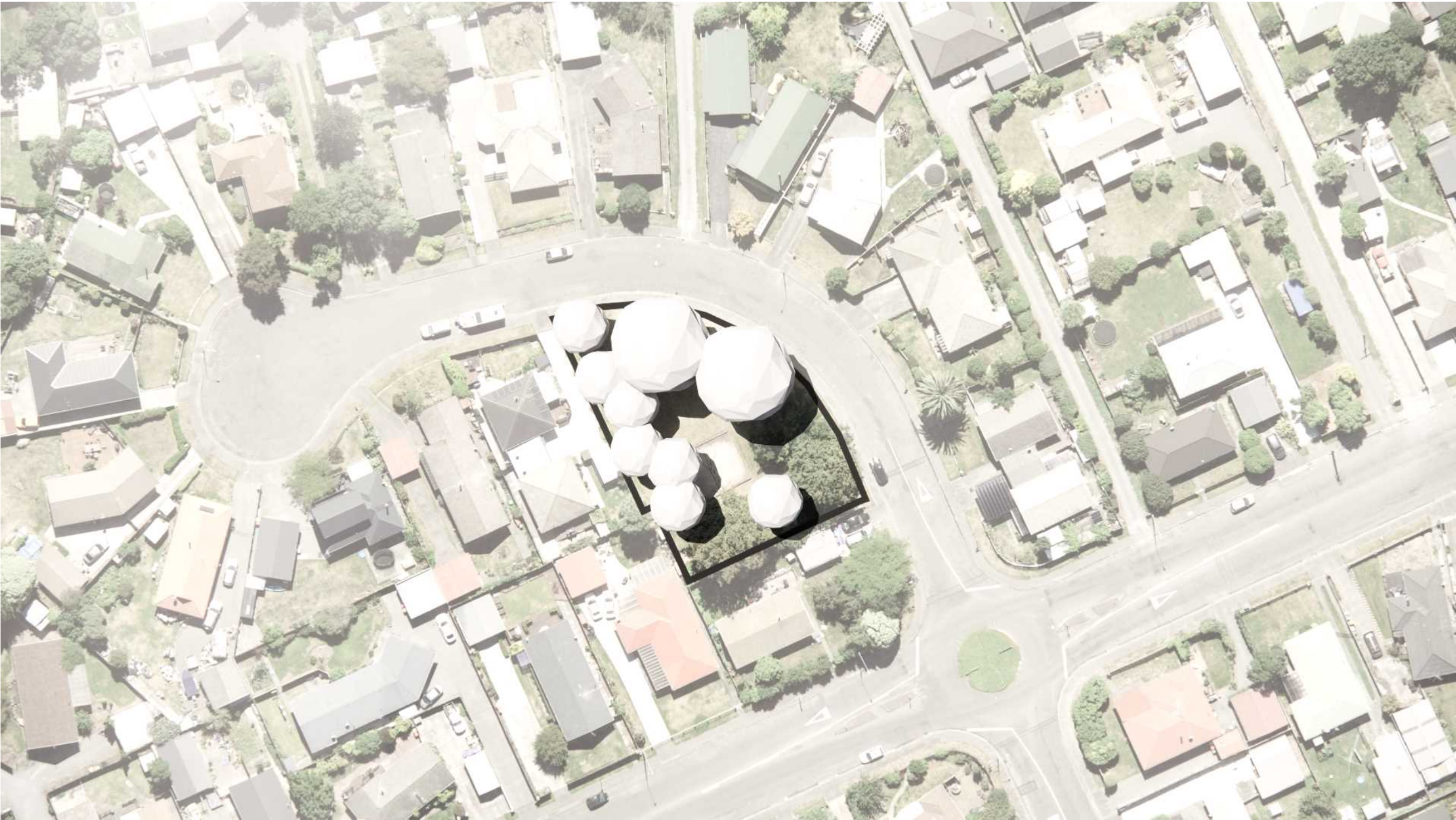
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Note:
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2 pm



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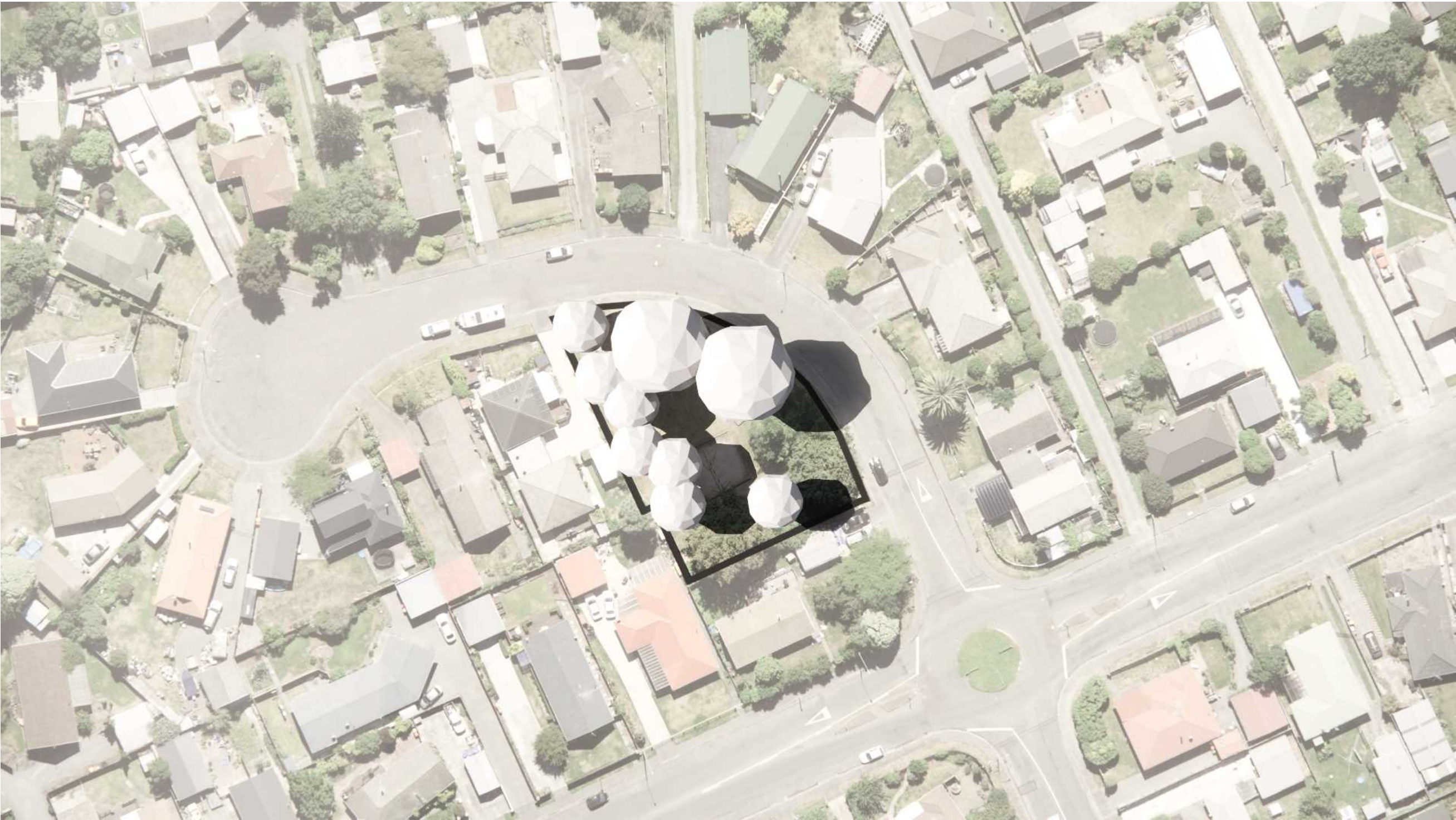
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4 pm



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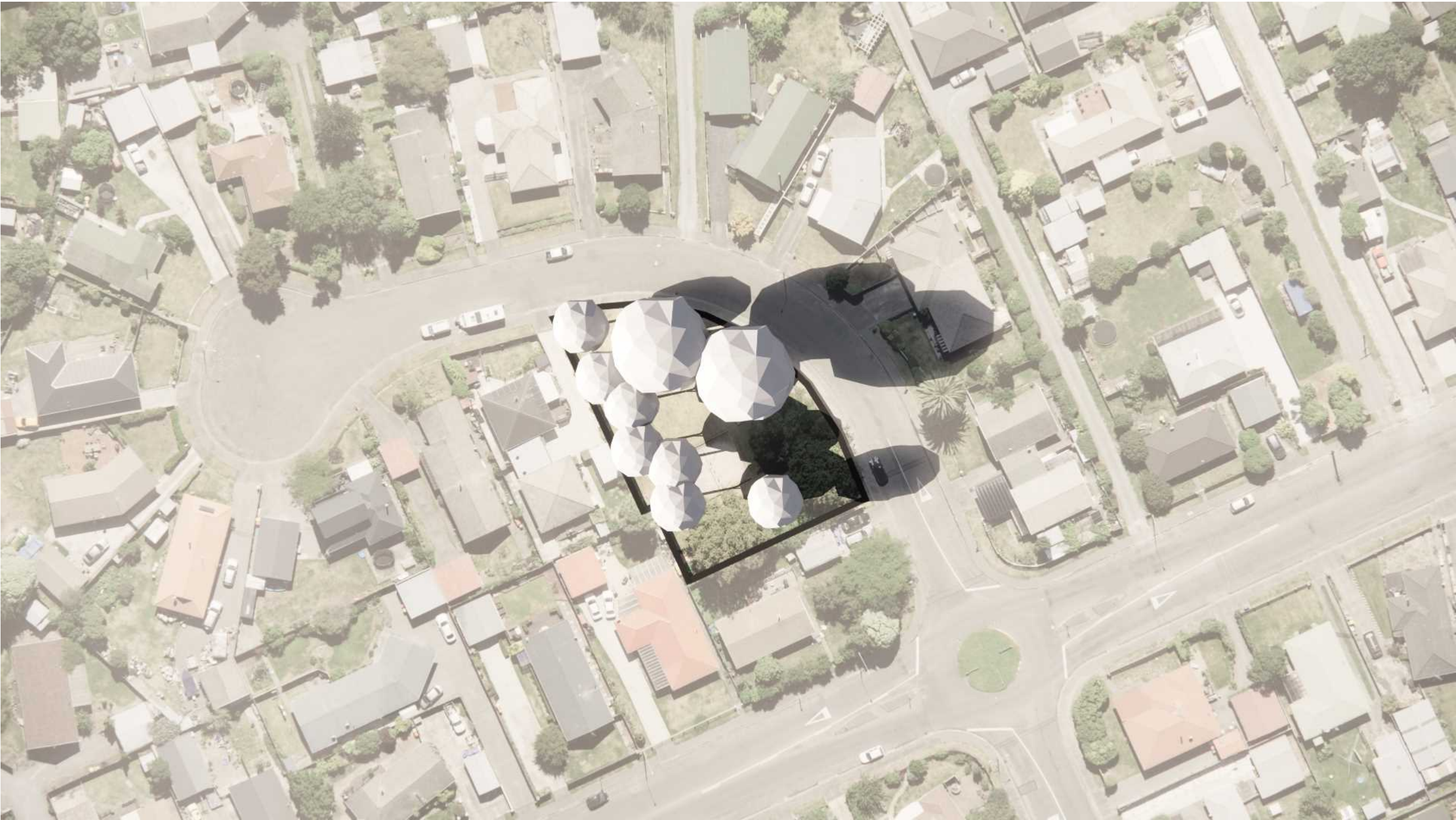
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Note:
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6 pm



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PLANT SCHEDULE - LOMAX RESERVE			
ID	Qty	Tree Category	Tree Height
TREE HEIGHT 5-10M			
Small	7	Small Tree	5-10m Height
TREE HEIGHT 11-15M			
Medium	2	Medium Tree	11-15m Height

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Tree Planting Plan

LEGEND

Existing Tree/
Vegetation

Existing
Mound/Contour

Potential Open
Space area

Existing Services

Light

Stormwater

Water supply

Wastewater

Power (LV)

Enable Fibre

Potential Tree Planting Areas

5m - 10m
Trees Height Zone

10m - 15m
Trees Height Zone

15m - 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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LOMAX RESERVE		
Park Canopy Cover Summary		
Existing number of trees		6
Existing canopy cover	approx.	26%
Proposed number of new trees		9
Proposed net canopy cover(existing vegetation and proposed)	approx.	71%

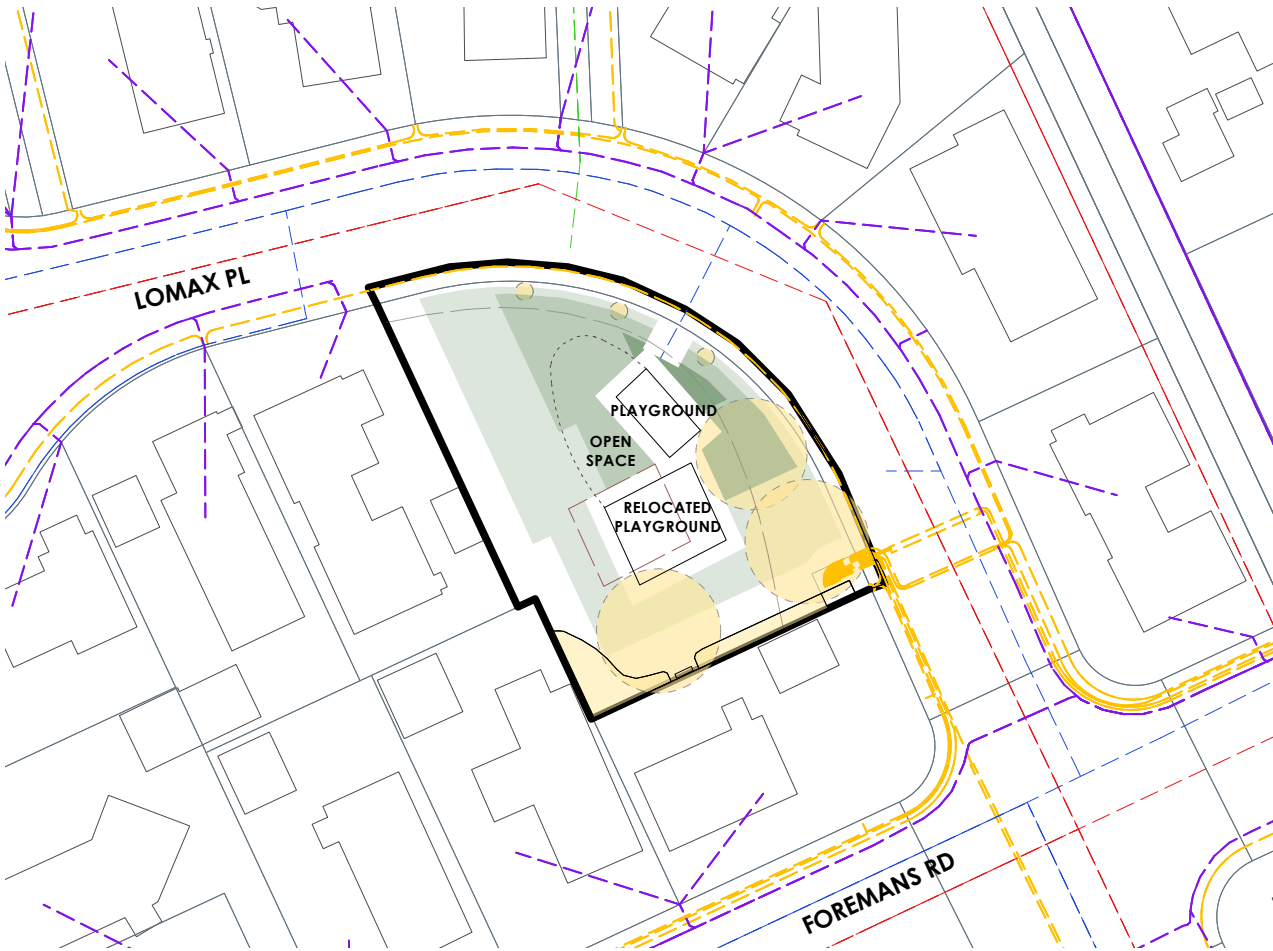
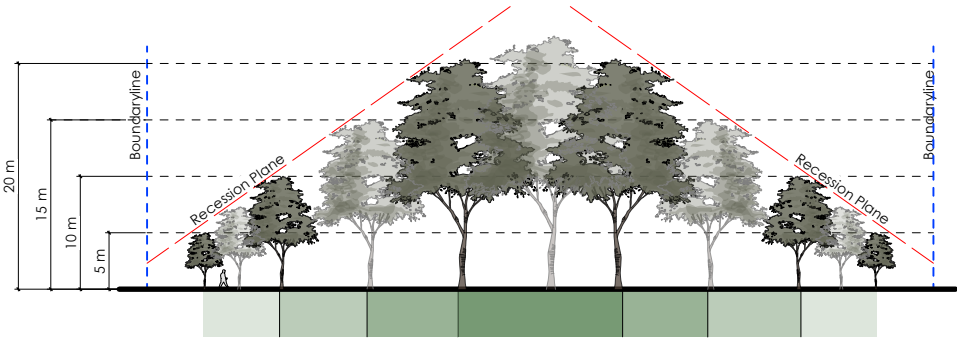
Guideline Summary

- 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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- Existing Mound/Contour
- Potential Open Space area

Existing Services

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

Potential Tree Planting Areas

- 5m - 10m Trees Height Zone
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