

PROJECT NAME

BISHOPS GREEN

ADDRESS

37 Bibiana Street, Halswell, Christchurch 8025

CLIENT

Christchurch City Council

COMMUNITY PARK TREE PLANTING STUDY

Issued date

13/12/2023



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



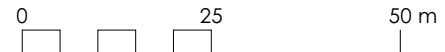
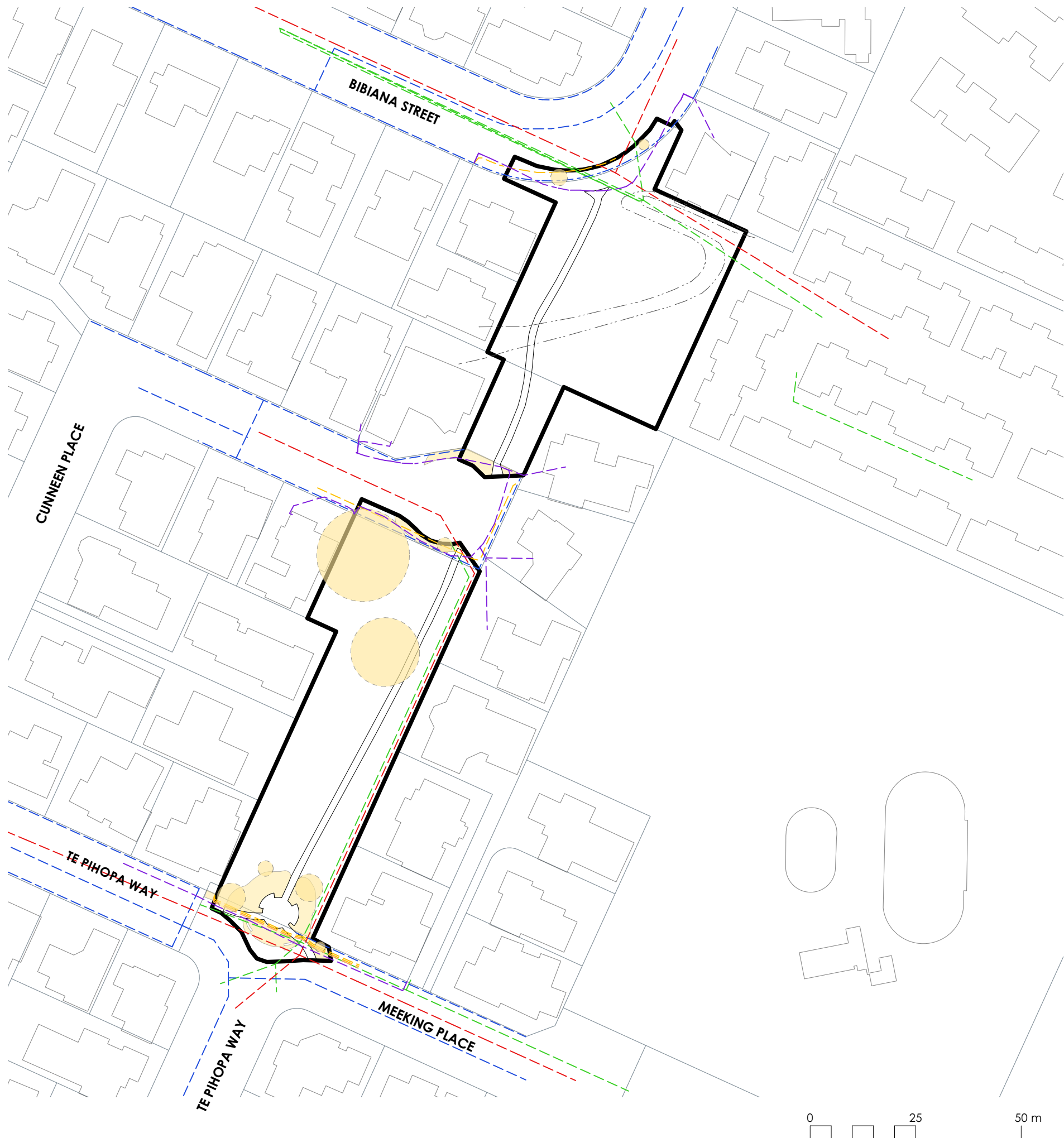
PREPARED BY



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5435



BISHOPS GREEN

Community Park Tree Planting

ADDRESS
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BISHOPS GREEN
Existing Planting

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

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BISHOPS GREEN

Tree Planting Zones

LEGEND



Existing Tree/
Vegetation



Existing
Mound/Contour

Existing Services

- Stormwater
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- Wastewater
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Potential Tree Planting Areas

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

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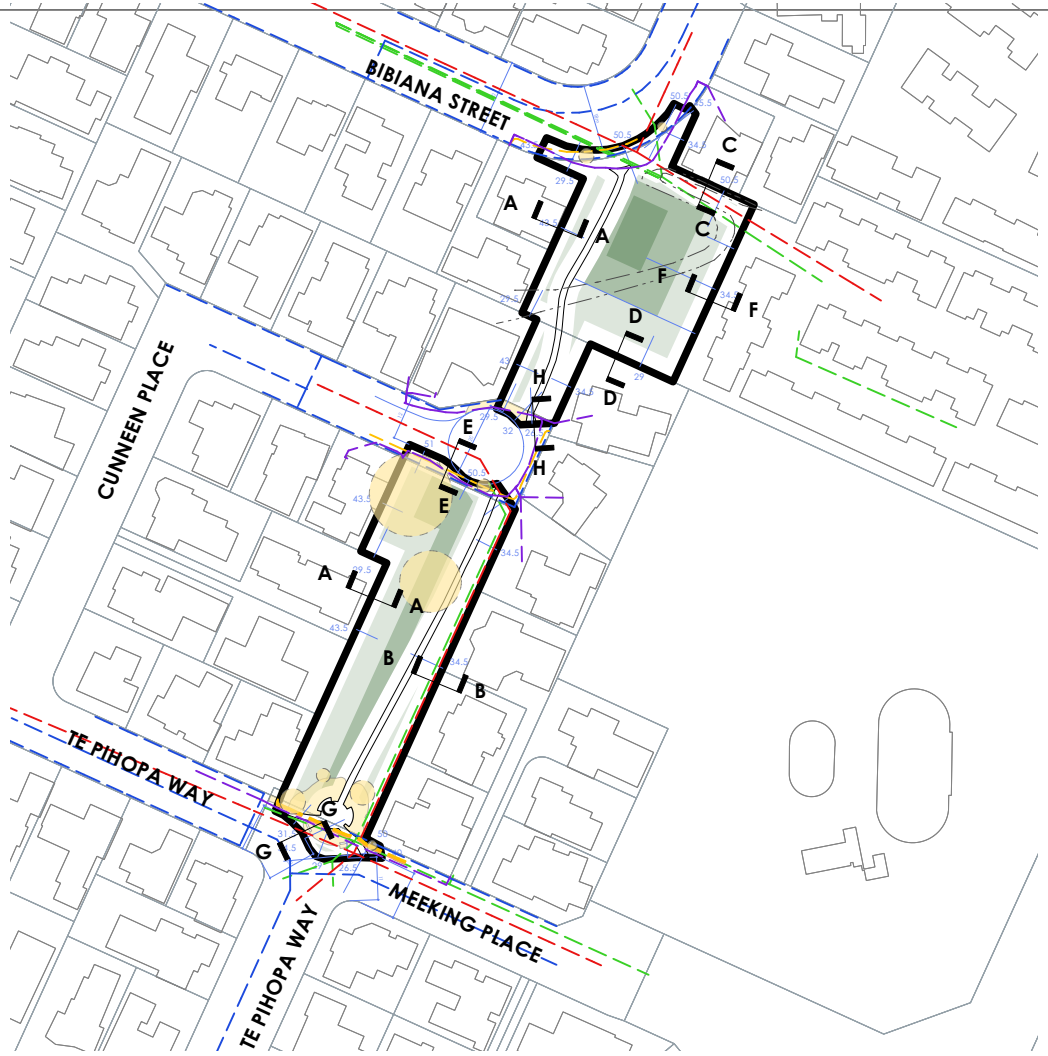


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Location Plan @ 1:2000



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Tree Planting Zones

Lot Boundary Cross Sections

LEGEND

- Existing Tree/
Vegetation
- Existing
Mound/Contour

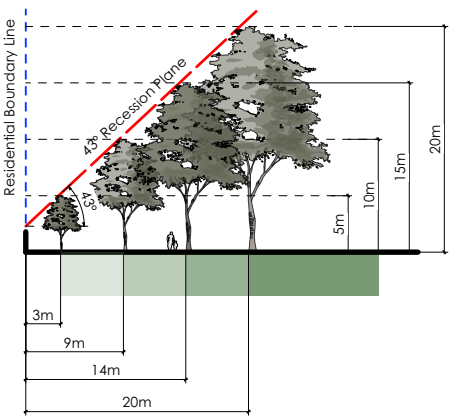
Existing Services

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

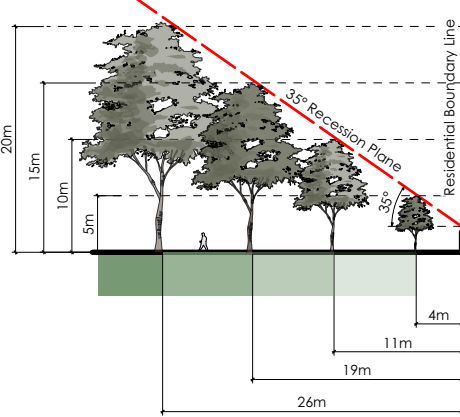
Potential Tree Planting Areas

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

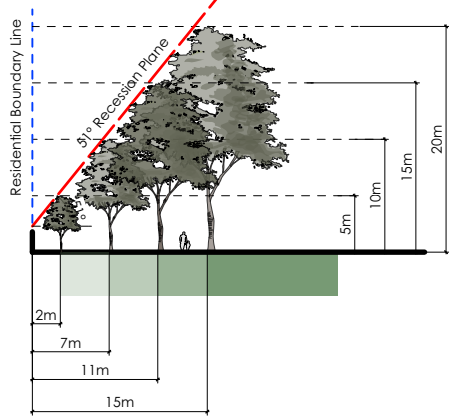
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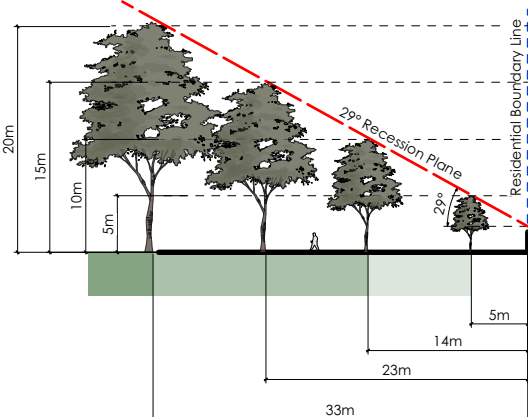
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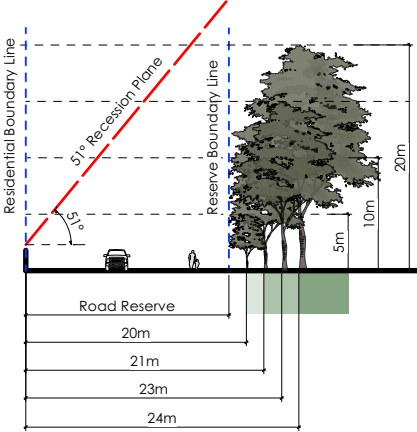
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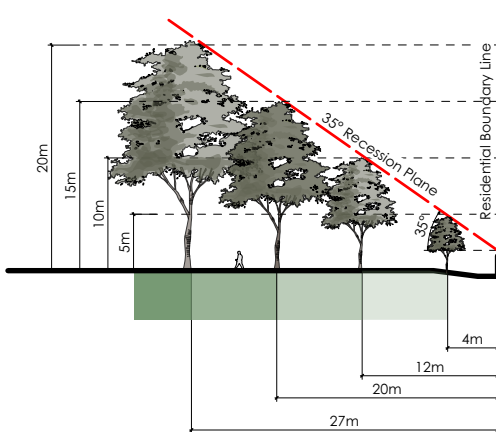
Cross Section C-C



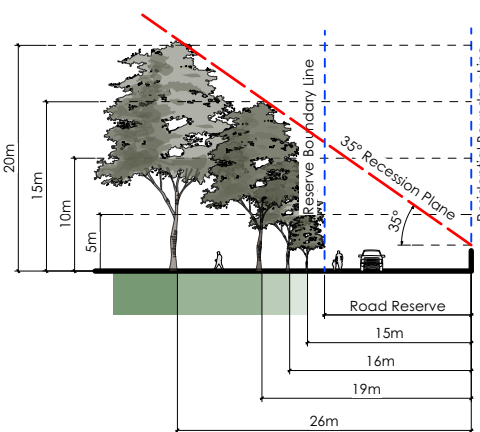
Cross Section D-D



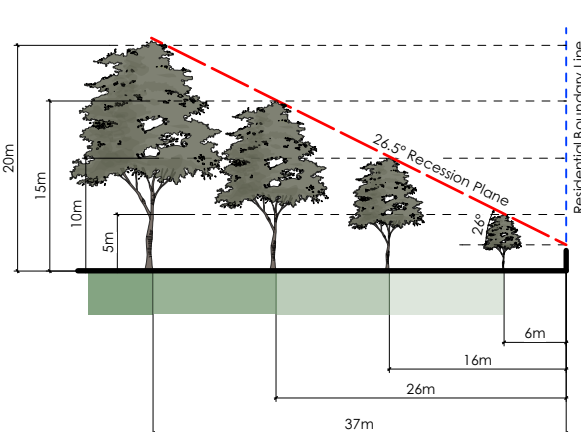
Cross Section E-E



Cross Section F-F



Cross Section G-G



Cross Section H-H

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BISHOPS GREEN

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BISHOPS GREEN

Shade Study - Winter Solstice

8 am

Note:
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10 am



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12 noon



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Shade Study - Winter Solstice

12 noon

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2 pm



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Shade Study - Winter Solstice

2 pm

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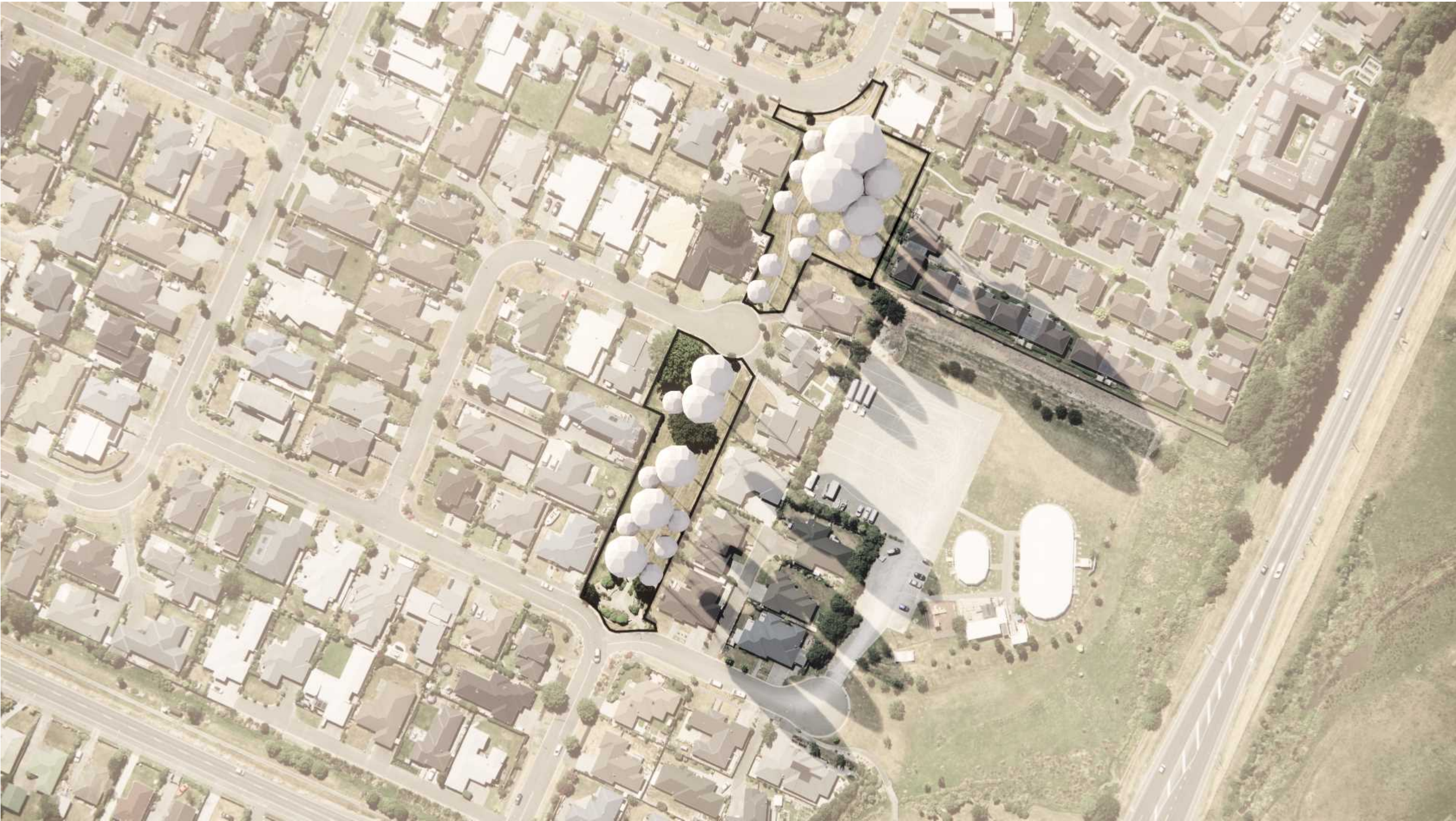
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4 pm



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Shade Study - Winter Solstice

4 pm

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Shade Study - Winter Solstice

6 pm

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8 am



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Shade Study - Summer Solstice

8 am

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10 am



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Shade Study - Summer Solstice

10 am

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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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4 pm



Note:
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6 pm



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Shade Study - Summer Solstice

6 pm

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PLANT SCHEDULE - BISHOPS GREEN			
ID	Qty	Tree Category	Tree Height
TREE HEIGHT 5-10M			
Small	15	Small Tree	5-10m Height
TREE HEIGHT 11-15M			
Medium	7	Medium Tree	11-15m Height
TREE HEIGHT 16-20M			
Large	2	Large Tree	16-20m Height

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BISHOPS GREEN

Tree Planting Plan

LEGEND

Existing Tree/
Vegetation

Existing
Mound/Contour

Existing Services

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

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

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BISHOPS GREEN		
Park Canopy Cover Summary		
Existing number of trees		9
Existing canopy cover	approx.	17%
Proposed number of new trees		24
Proposed net canopy cover(existing vegetation and proposed)	approx.	55%

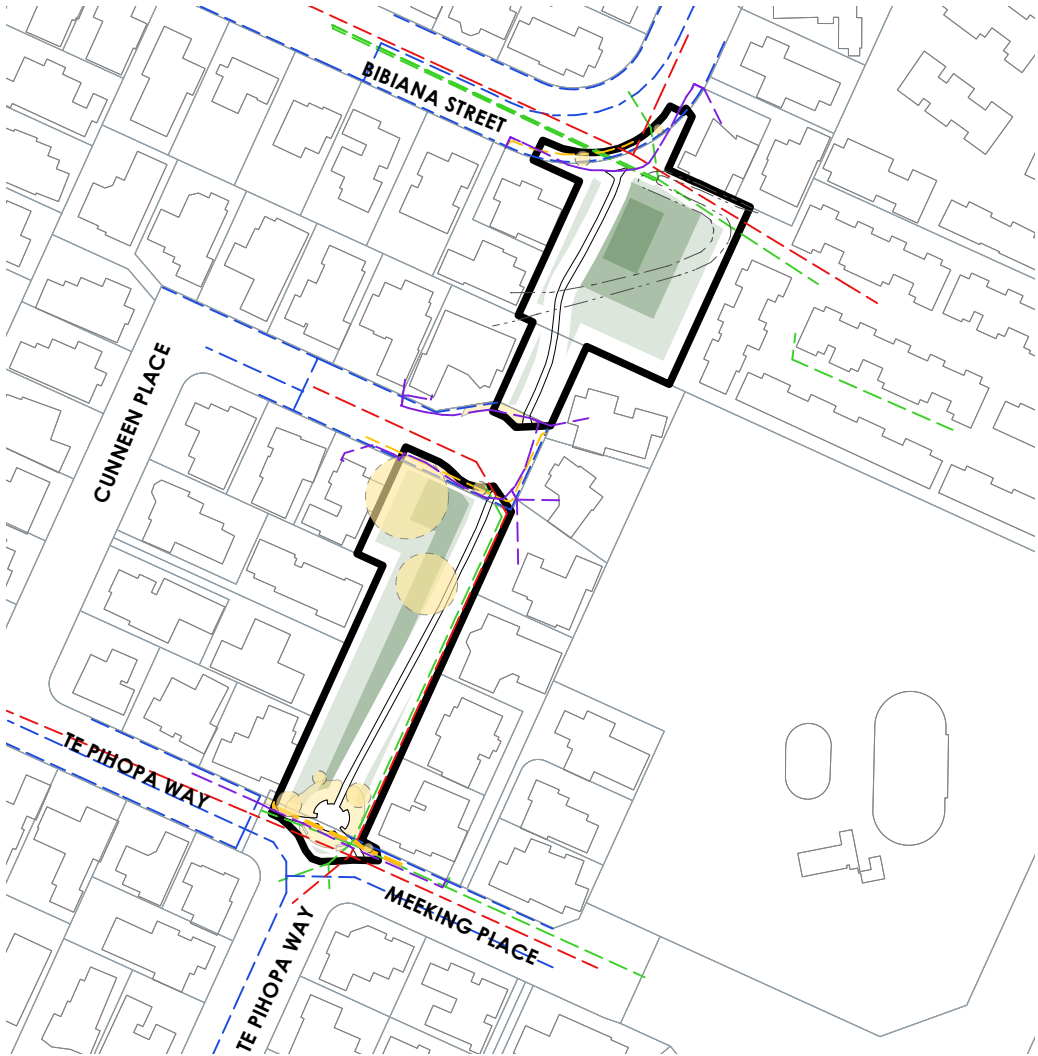
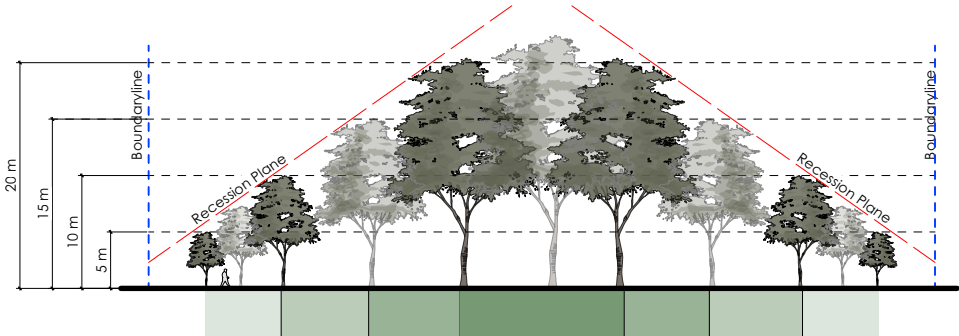
Guideline Summary

- 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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