

PROJECT NAME

ARRAN PLAYGROUND

ADDRESS

65 Arran Crescent, Woolston, Christchurch 8062

CLIENT

Christchurch City Council

COMMUNITY PARK TREE PLANTING STUDY

Issued date

5/03/2024



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



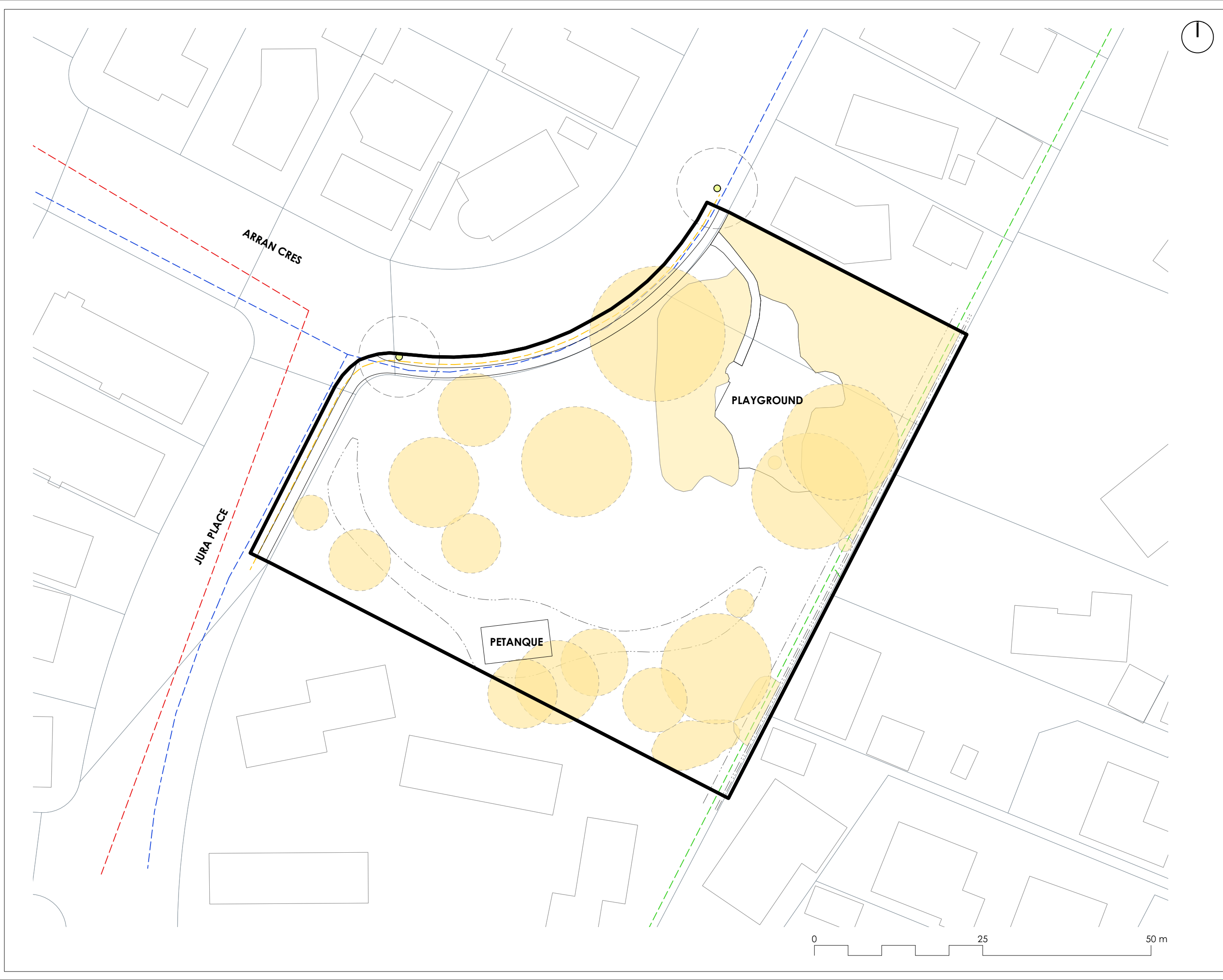
PREPARED BY



Te Uruti Building, 48 Hereford St, PO Box 2833, Christchurch 8140
Mountaineer Building, 32 Rees St, Queenstown 9300
T. 03 366 8181 E. admin@kamomارش.co.nz W. kamomارش.co.nz

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5442



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Community Park Tree Planting

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ARRAN PLAYGROUND

Existing Planting

LEGEND

 Existing Tree/
Vegetation

 Existing
Mound/Contour

Existing Services

 Light

 Stormwater

 Water supply

 Wastewater

 Power (LV)

 Enable Fibre

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T. 03 3668 181
E. admin@kamommarsh.co.nz
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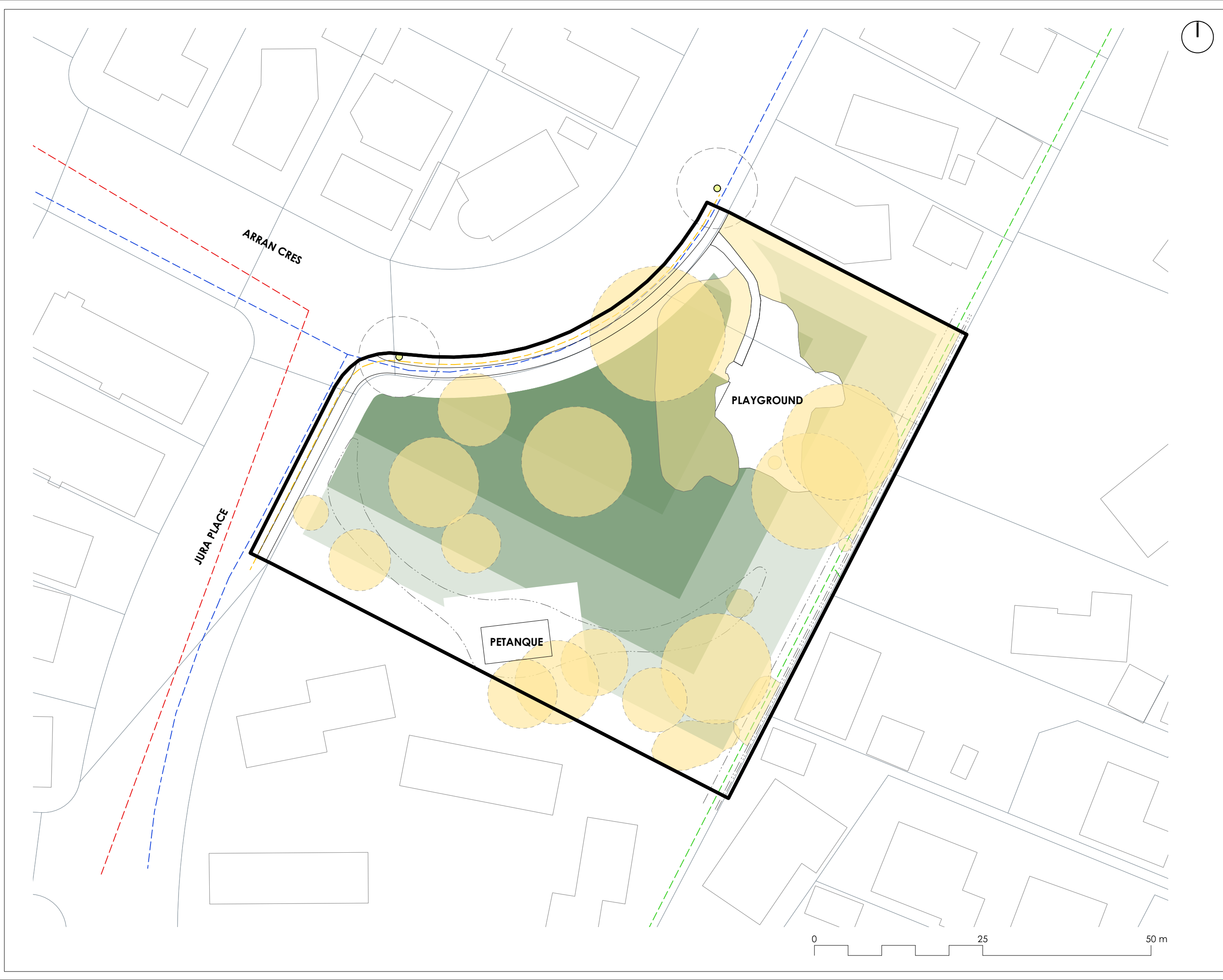
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P 01



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Community Park Tree Planting

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ARRAN PLAYGROUND
Tree Planting Zones

LEGEND

- Existing Tree/
Vegetation
- Existing
Mound/Contour

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
- 20m+
Trees Height Zone

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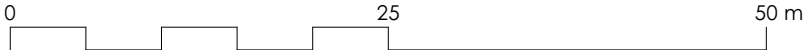
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P 02



Winter Solstice
Date: 22nd June

8 am



ARRAN PLAYGROUND

Community Park Tree Planting

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ARRAN PLAYGROUND

Shade Study - Winter Solstice

8 am

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

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Winter Solstice
Date: 22nd June

10 am



ARRAN PLAYGROUND

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ARRAN PLAYGROUND

Shade Study - Winter Solstice

10 am

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Winter Solstice
Date: 22nd June

12 noon



ARRAN PLAYGROUND

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ARRAN PLAYGROUND

Shade Study - Winter Solstice

12 noon

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Winter Solstice
Date: 22nd June

2 pm



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ARRAN PLAYGROUND
Shade Study - Winter Solstice

2 pm

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4 pm



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ARRAN PLAYGROUND
Shade Study - Winter Solstice

4 pm

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Winter Solstice
Date: 22nd June

6 pm



ARRAN PLAYGROUND

Community Park Tree Planting

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ARRAN PLAYGROUND

Shade Study - Winter Solstice

6 pm

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8 am



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ARRAN PLAYGROUND
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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ARRAN PLAYGROUND
Shade Study - Summer Solstice

12 noon

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4 pm



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ARRAN PLAYGROUND
Shade Study - Summer Solstice

4 pm

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6 pm



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ARRAN PLAYGROUND
Shade Study - Summer Solstice
6 pm

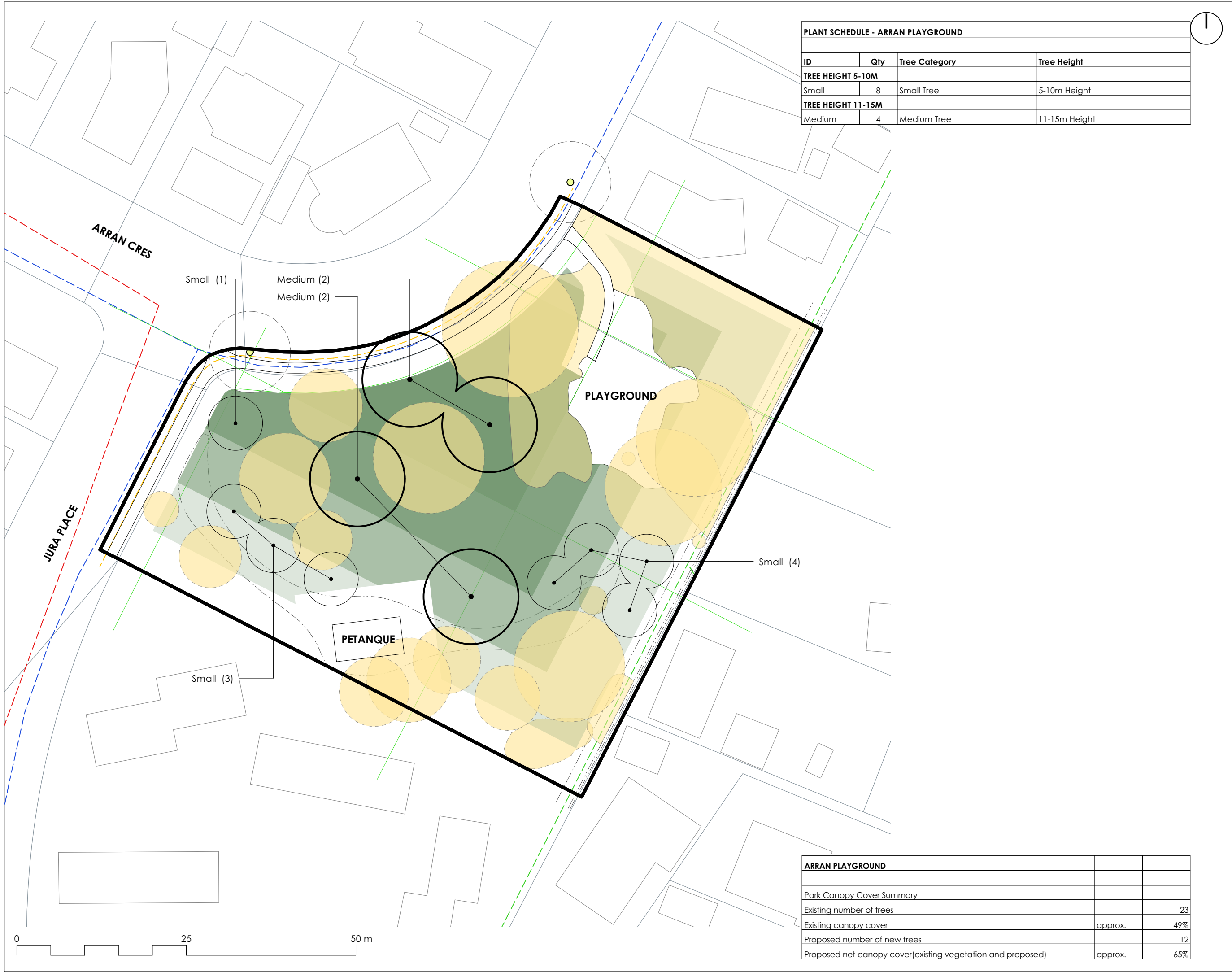
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PLANT SCHEDULE - ARRAN PLAYGROUND			
ID	Qty	Tree Category	Tree Height
TREE HEIGHT 5-10M			
Small	8	Small Tree	5-10m Height
TREE HEIGHT 11-15M			
Medium	4	Medium Tree	11-15m Height

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ARRAN PLAYGROUND
Tree Planting Plan

LEGEND

-  Existing Tree/
Vegetation
-  Existing
Mound/Contour

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
-  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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ARRAN PLAYGROUND		
Park Canopy Cover Summary		
Existing number of trees		23
Existing canopy cover	approx.	49%
Proposed number of new trees		12
Proposed net canopy cover(existing vegetation and proposed)	approx.	65%

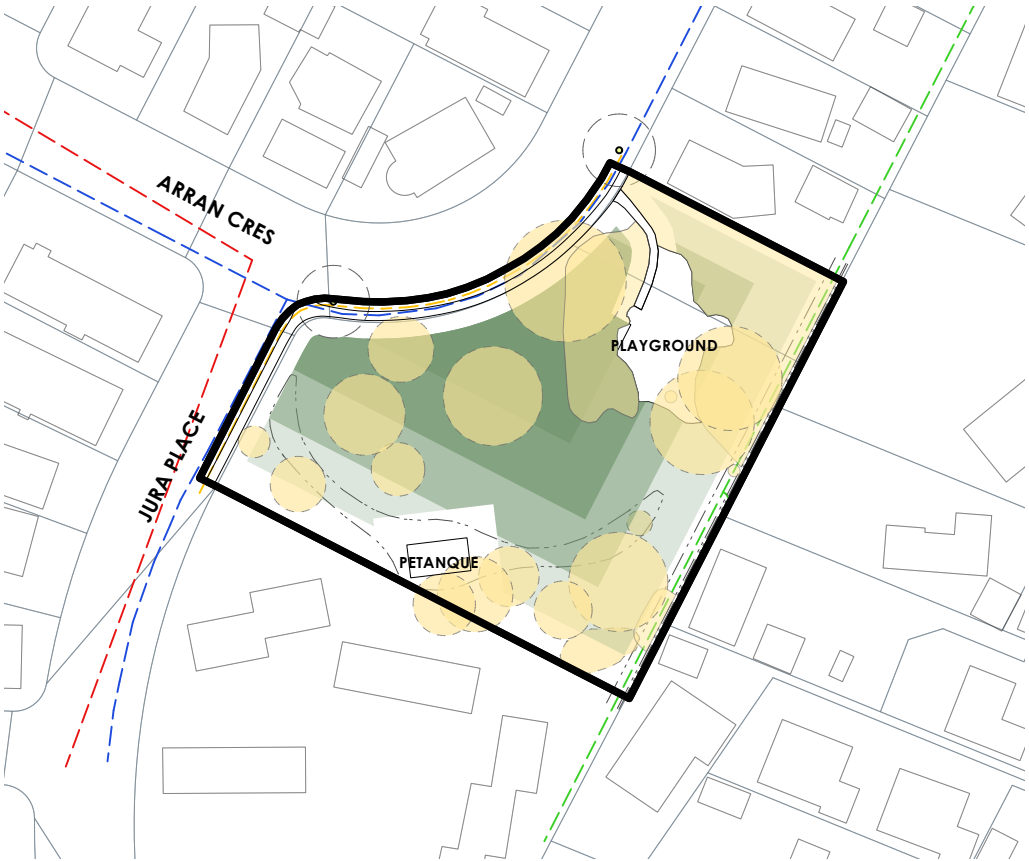
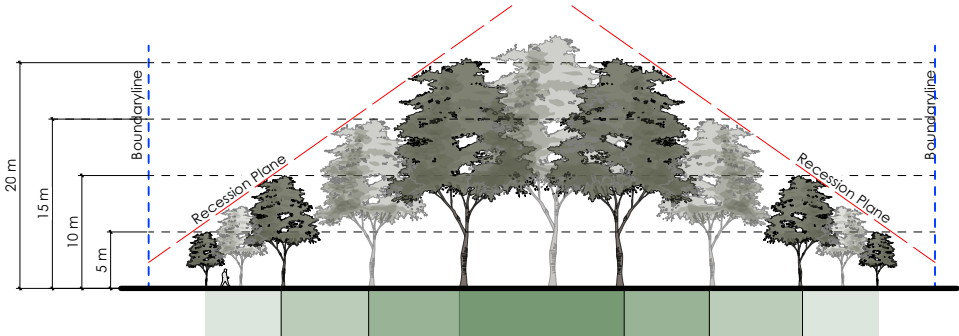
Guideline Summary

- 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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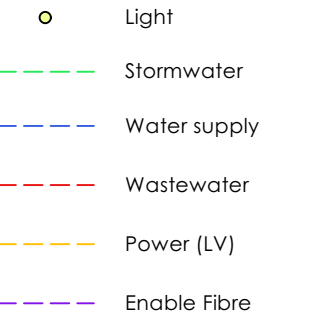
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Tree Planting Guidelines

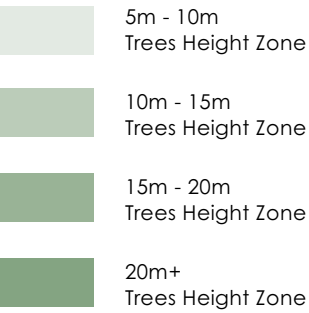
LEGEND



Existing Services



Potential Tree Planting Areas



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