



Acknowledgement of Country

Moir Landscape Architecture would like to acknowledge the traditional custodians of the lands and waters of Australia, most notably the Worimi Nation, the traditional owners of the lands on which this project resides. We acknowledge their contribution to our community and their deep connection to the land. We pay our respects to Elders, past and present.



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Issue 05

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01

Introduction



The Brief

The aim of this project is to identify, in consultation with the local community and businesses, the key infrastructures, facilities and opportunities that they wish to experience on the site.

The consultant will provide leadership on how the project will come together to meet the following **objectives:**

- **Develop a Masterplan** for the site aimed at the provision of quality open space and recreation infrastructure offerings;
- Design and implement a **community consultation** framework;
- Specifically review and formulate recommendations regarding the future development of **public parking** and **picnic areas** for **visiting caravans, RV's** and the local community, **an accessible amenities block, multi-use trails connecting the site with Jubilee Park and Dowling Street, environmental**

improvements such as the planting of trees and the restoration of the former natural creek, as well as **interpretative opportunities** offered by the site;

- Develop solutions that are considerate of the **flooding** issues of the site;
- Work with the Project Advisory Group to advise on the **funding**, governance and management structure needed to implement the Masterplan;
- **Cost** the implementation of the Masterplan and provide funding options.

In addition, the Concept Masterplan will:

- Investigate opportunities around the integration of water sensitive urban design principles to improve drainage, drought and flood resilience.
- Ensure the design is strengthened by Crime Prevention Through Environmental Design (CPTED) and industry best practice principles;
- Establish a material palette that reflects Dungog's unique rural character, celebrates both Indigenous and European cultural heritage and ensures longevity and ease of maintenance.

“The Masterplan will provide Council and the community with information to guide the development of its tourism, hospitality and recreation offerings, with its subsequent implementation seeking to increase wellbeing and small business growth opportunities in the Shire.”

The Site

Site Area: 17 353 m² / 1.74ha
Site Perimeter: 655m
Site Elevations: 50-53m



HOOKE STREET

PROJECT SITE

LORD STREET

DOWLING STREET

BROWN STREET

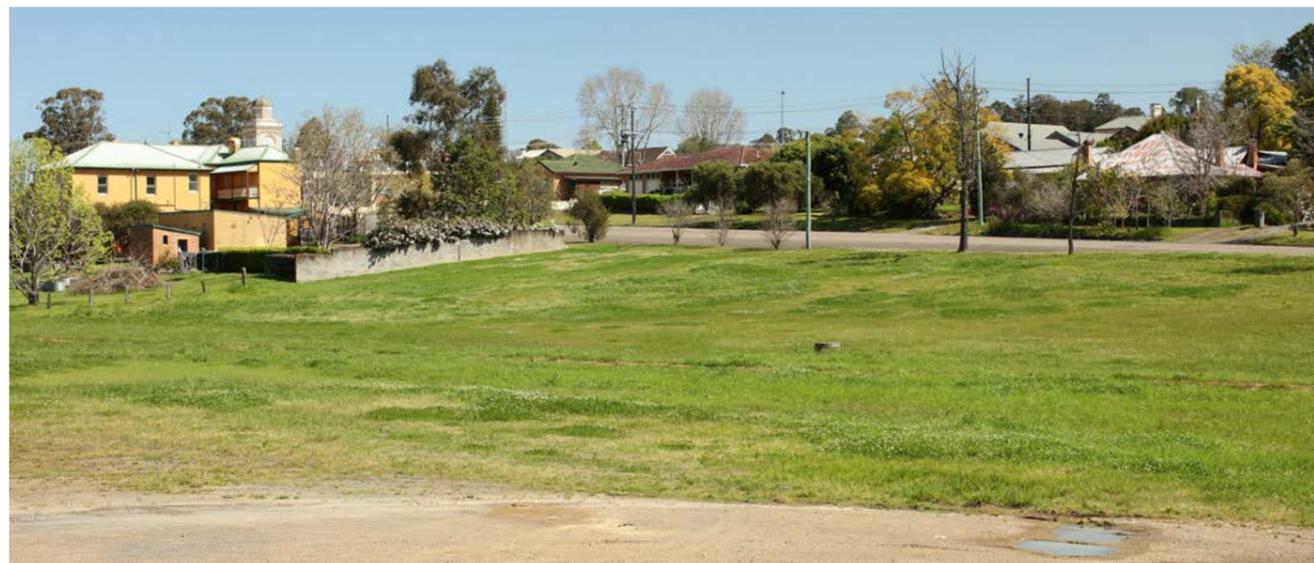
WILLIAMS RIVER

1:2000@A3



0 15 30 45 60m

Project Area Site Photos



Open Space Network



The adjacent plan seeks to communicate how the project site fits within the wider open space network of Dungog, and how it is a crucial piece of green infrastructure that can help improve connectivity of open space.

- 1 Dungog Common
- 2 Hooke Street project site
- 3 Jubilee Park
- 4 Dungog Library
- 5 Bennett Park
- 6 Dungog Showground

Hydrology Context



The adjacent plan seeks to communicate how the project site fits within the wider hydrological landscape, and how it can function as an important piece of stormwater infrastructure helping to capture and treat stormwater before it enters the adjacent Myall Creek and Williams River.

- 1 Hooke Street Master Plan project site
- 2 Myall Creek
- 3 Williams River

Hydrology Diagram



Greener Places

Greener Places (2020) by the Government Architect NSW provides a best practice framework for the design of green infrastructure in New South Wales.

The document champions designing healthier, liveable and sustainable urban environments and has been used to inform the design of the Hooke Street Masterplan.

Greener Places design principles:

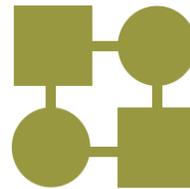
- **Integration** - combine green infrastructure with urban development and grey infrastructure
- **Connectivity** - create an interconnected network of open space
- **Multifunctionality** - deliver multiple ecosystem services simultaneously
- **Participation** - involve stakeholders in development and implementation

Using these design principles, the opposite summary explains how the Hooke Street Masterplan demonstrates best practice design of green infrastructure through integration, multifunctionality, connectivity and participation.



INTEGRATION

- Naturalisation of the existing stormwater drain combines traditional grey infrastructure with green infrastructure through the addition of plants and filtration media to treat stormwater before it enters the nearby Myall Creek and the Williams River.
- By combining hardscape areas like parking and pathways, with trees and garden beds, the longevity of council assets is increased and the many benefits of vegetated areas like cooler temperatures can be experienced by park visitors.
- Through the Master Plan's provision of basic amenities and recreational facilities, the social benefits of increased health and wellbeing are supported, and economic benefit to the town of Dungog is likely through the provision of parking, basic facilities and gathering areas, encouraging tourists to extend their stay.



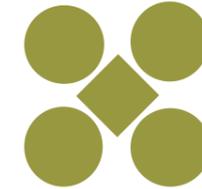
CONNECTIVITY

- The Master Plan pathways connect to Jubilee Park in the south and Dungog Common to the north-west. This improved north-south connectivity will make walking and cycling more attractive to the public.
- The Master Plan allows for pedestrian connectivity to Dowling Street via Hooke and Brown Streets. Further investigations will also be made into possible future connectivity options.
- The Master Plan provides enhanced ecological connectivity through the addition of new tree planting, garden beds and riparian planting along the proposed naturalised drainage corridor.



MULTIFUNCTIONALITY

- The Master Plan includes multifunctional open lawn areas that facilitate a range of activities such as events, picnics, exercise and play.
- Naturalisation of the existing drain will improve stormwater management, flood mitigation and waterway health, as well as provide a habitat stepping stone for local wildlife and insect populations. The corridor also enhances the beauty of the existing site, through adding new planting, materials and crossings.



PARTICIPATION

- Multiple in-person, phone and email consultation have been conducted with a range of stakeholders in order to complete the Master Plan design.
- The Master Plan contains spaces where community groups can gather, socialise and participate in a variety of projects and events.

Case Studies Showing Stormwater Channel Naturalisation

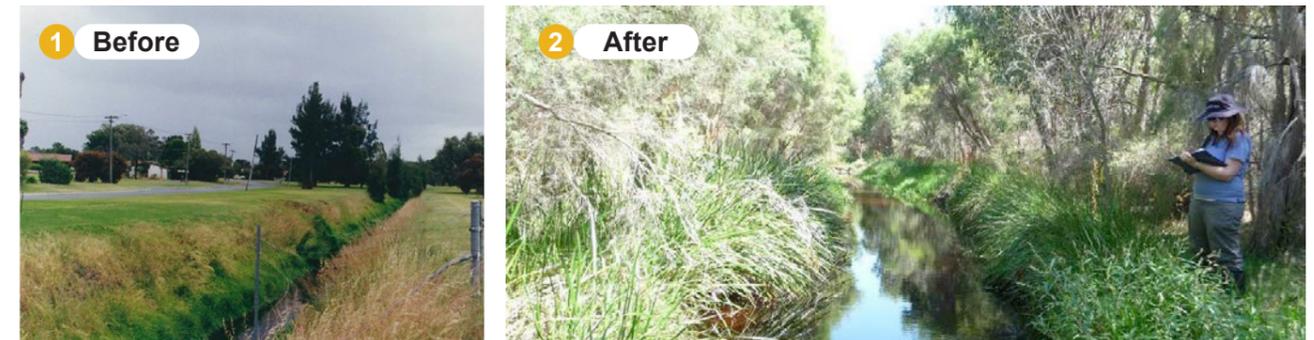
Clear Paddock Creek Restoration, Sydney



1. The existing concrete stormwater channel
2. The 'Memory Line', a living land art installation that followed the original line of the Clear Paddock Creek.
3. Three years after naturalisation.

See website: <https://www.governmentarchitect.nsw.gov.au/resources/case-studies/2017/11/restoring-the-waters-creek-restoration>

Bannister Creek, Perth



1. Bannister Creek 1998, prior to the Living Stream restoration project.
2. Bannister Creek after restoration, 2014

See website: <https://watersensitivecities.org.au/solutions/case-studies/bannister-creek-living-stream/>

Cooks River, Sydney



1. Former concrete channel along Cooks River, built in the 1930/40s.
2. Stabilised river bank, replaced with native plants, trees and sandstone.

The case studies show the transformation of grey infrastructure to green. Naturalising drainage channels can have many benefits including addressing aging infrastructure, improved ecosystem and community health, enhancing the visual character of the area, which in turn attracts more visitors to the site.

Design Principles

derived from consultation feedback



Improve Site Water Management

Past flooding events have shown the vulnerability of the site to extreme inundation. Community consultation feedback revealed a high number of people were in favour of transforming the existing site stormwater channel into a naturalised creek. This would improve the visual character of the existing site and enhance flood resilience.



Create Shade and Habitat through Planting

The importance of planting local flora, creating habitat areas and enhancing the beauty of the site was a clear preference expressed by the community. Participants felt strongly about adding shade through new tree plantings along pathways and in picnic areas.



Install Accessible Toilets and Drinking Water

The need for accessible toilets was voiced by numerous stakeholders. The facilities would provide for a range of users including locals and tourists, as well as cater for future park events.



Provide RV and Accessible Parking

RV parking areas will fulfil the need for larger parking bays close to Dowling Street shops. Accessible parking close to accessible amenities should also be integrated in to the design.



Incorporate Public Art, Event and Community Spaces

The park should be designed in a way to accommodate large scale events and markets, helping to supporting and showcasing the arts and culture of the area.



Cater for Local Youth

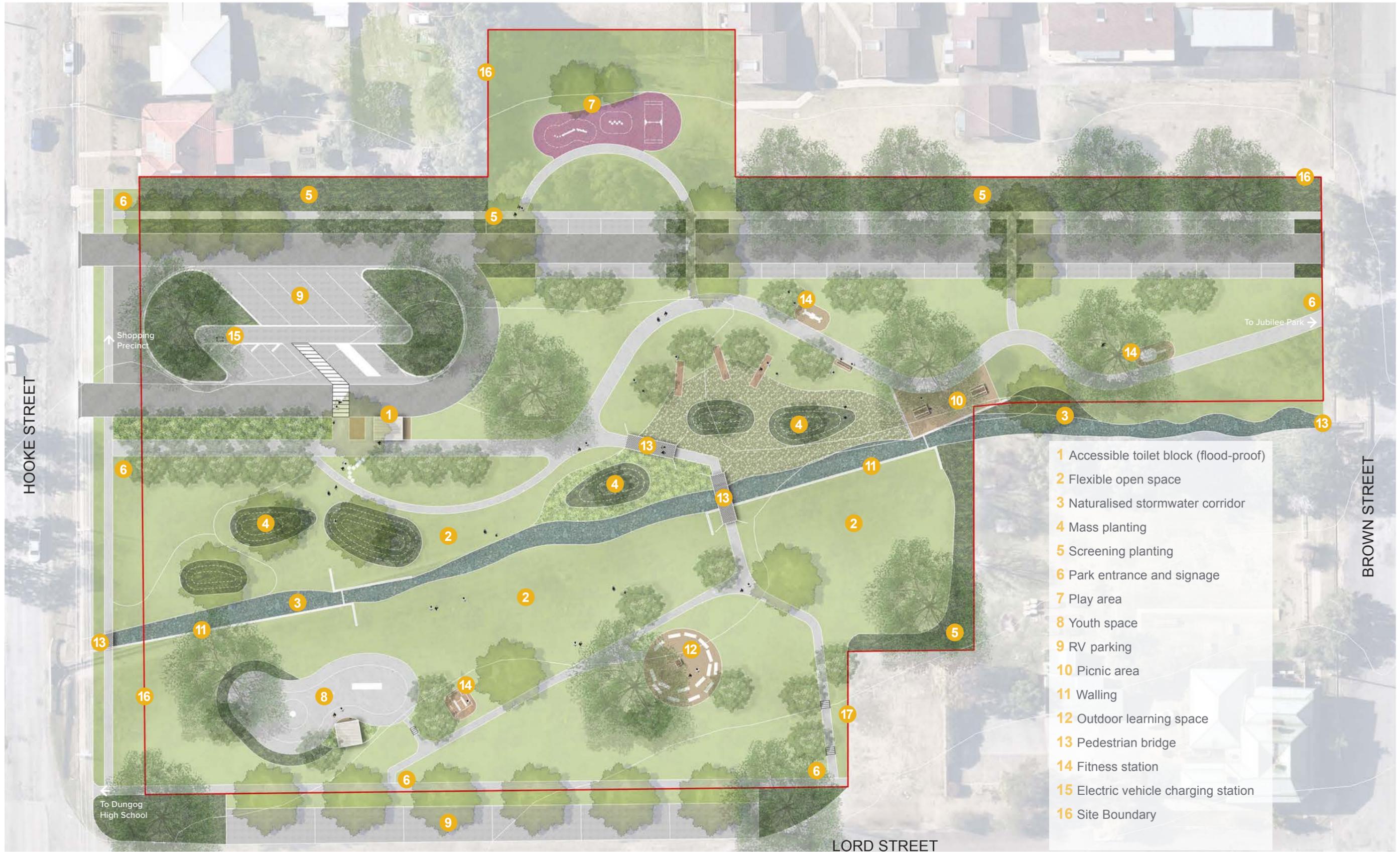
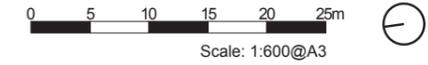
The park is an opportunity to cater for young children with nature play and play equipment. The youth will have opportunity to exercise, socialise and feel part of the community with an open space.



02

Master Plan and Detailed Areas

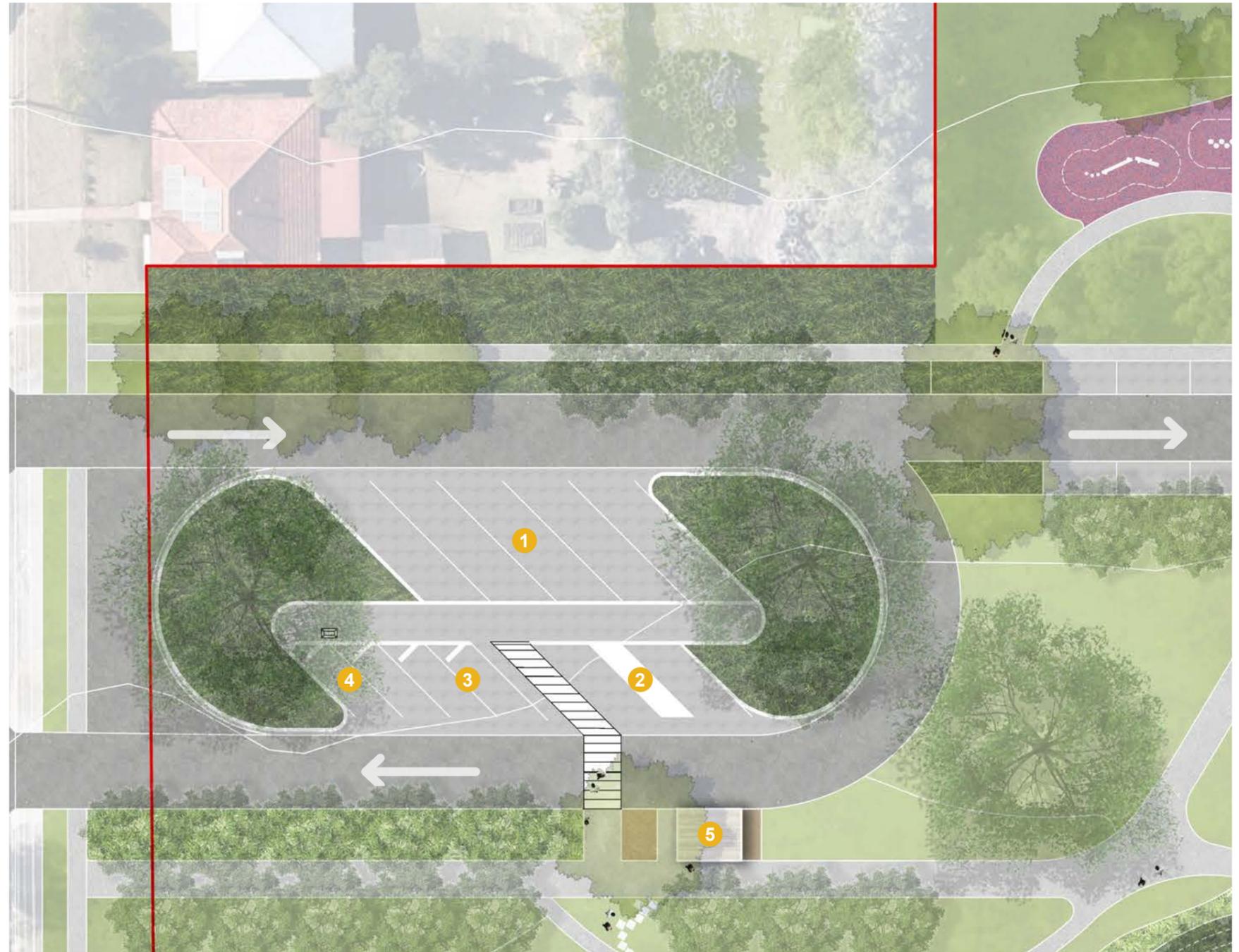
Master Plan



- 1 Accessible toilet block (flood-proof)
- 2 Flexible open space
- 3 Naturalised stormwater corridor
- 4 Mass planting
- 5 Screening planting
- 6 Park entrance and signage
- 7 Play area
- 8 Youth space
- 9 RV parking
- 10 Picnic area
- 11 Walling
- 12 Outdoor learning space
- 13 Pedestrian bridge
- 14 Fitness station
- 15 Electric vehicle charging station
- 16 Site Boundary

01. Detail Plan: Parking and Accessible Toilets

- 1 5 off-street RV parking spaces have been provided, and a further 6 are located on Lord Street. The parking bays are softened with shade trees and planting.
- 2 Two accessible parking spaces are positioned close to the proposed accessible rest room accessed via the pedestrian crossing.
- 3 Two standard parking spaces.
- 4 Two electric vehicle (EV) spaces with one charging point. If the need for more EV chargers are required in the future the standard parks can be converted.
- 5 Accessible rest room designed to withstand flooding is proposed close to the car park for convenience of servicing and clear visibility.



Reference imagery of parking and accessible toilets



02. Detail Plan: Events, Gathering and Public Art

- 1 Large flexible open space that can accommodate outdoor events including market stalls.
- 2 Connection to Brown Street.
- 3 Pop-up event space. This provides an intimate area with shade and turf to relax and enjoy the ambience of the events and gatherings.
- 4 Accessible 2.5m-wide pathway that provides primary pedestrian route and service/event vehicle access. There is an opportunity for the primary pathway to be lined with public art or temporary installations.
- 5 Exercise equipment along the primary pathway to create an extension to the existing equipment in Jubilee Park, or facilitate the relocation of these items.
- 6 Internal one-way car circulation and parking bays

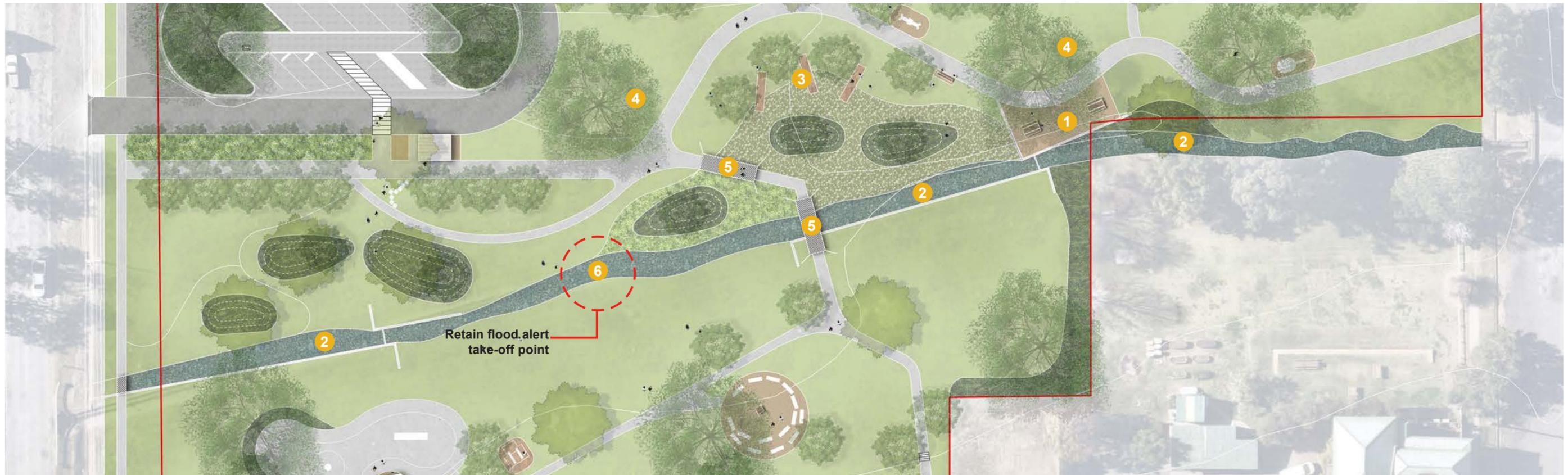


Reference Imagery: Events, Gathering and Public Art



03. Detail Plan: Water Management & Green Amenity

- 1 Shaded picnic area.
- 2 Naturalisation of the existing stormwater channel. The revitalisation of the creek is designed to have appeal and functionality in times of inundation and drought.
- 3 Cantilevered seating and gathering spaces.
- 4 Large native trees to provide shade amenity to open lawn, and habitat for endemic fauna species.
- 5 Pedestrian bridges over naturalised stormwater channel.
- 6 Retention of flood take-off point.



Reference Imagery: Creek Restoration and Gathering Areas



Reference Imagery: Play and Youth Areas



Planting

Plantings of various native flora species will champion the biodiversity and sense of place within the park

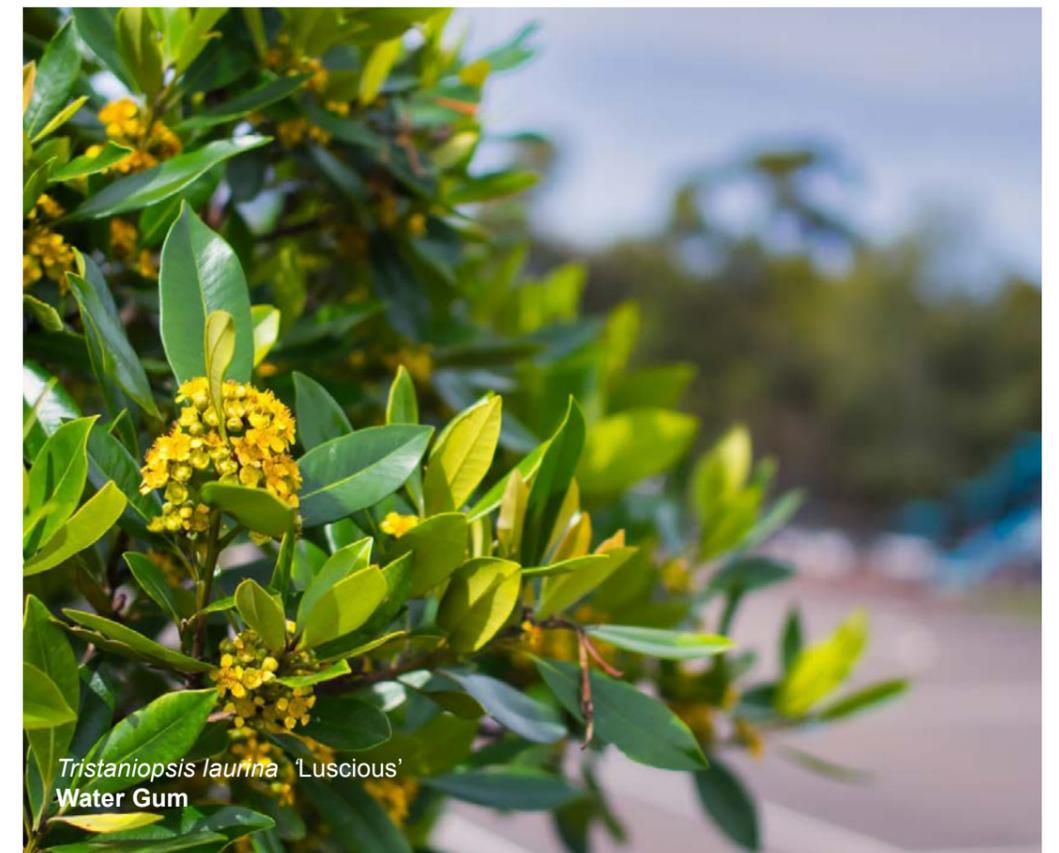
Dungog's endemic plants are suited to the region's weather and soils. Local plant species also offer educational opportunities and support habitat creation.

Including a diverse range of local plant species brings colour and interest to the park.

We recommend a successional approach to removing the existing tree species that are considered weeds. This will allow for new habitat and shade trees to be established.



Waterhousea floribunda
Weeping Lilly Pilly

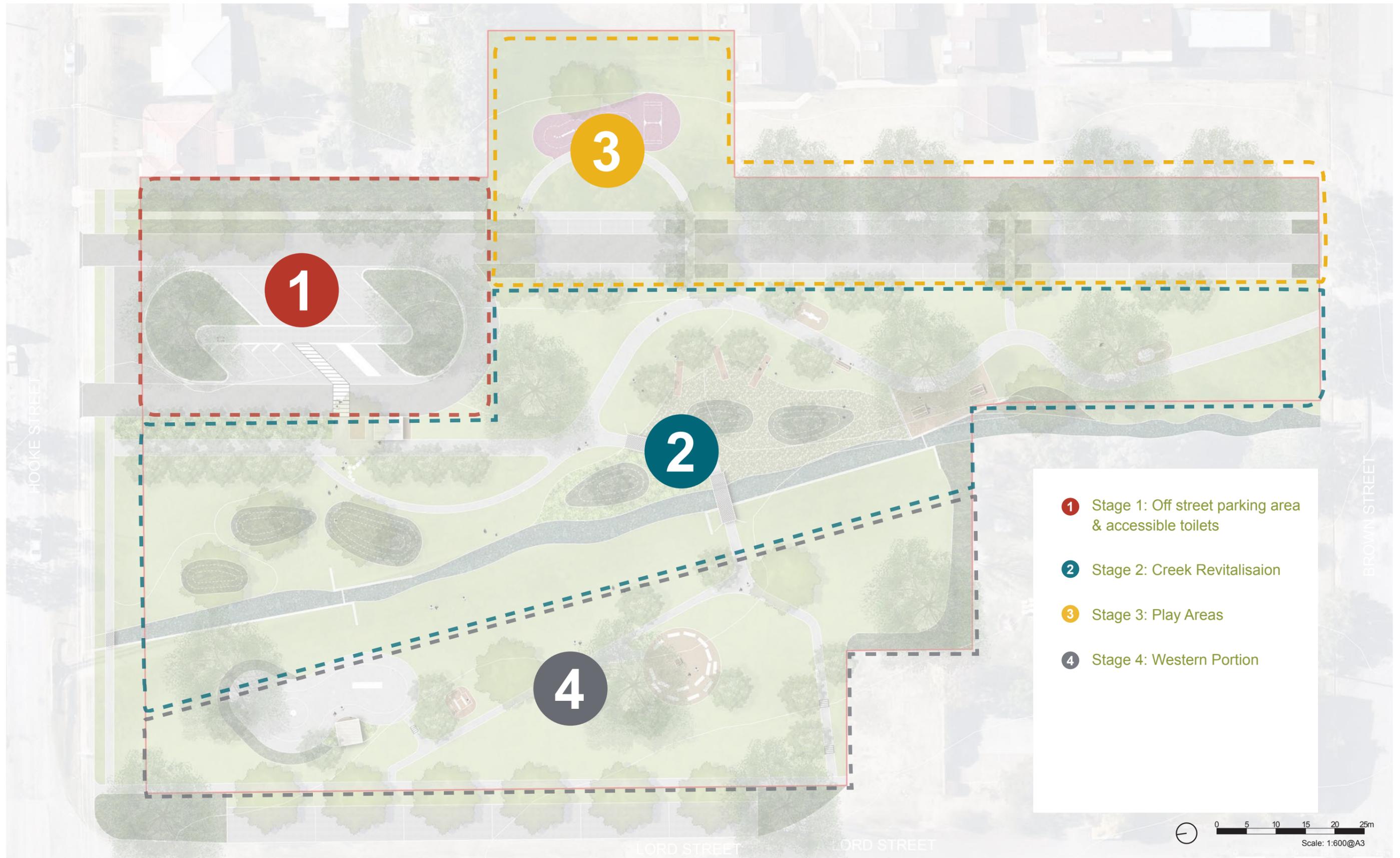


Tristaniopsis laurina 'Luscious'
Water Gum

Endemic Species



Proposed Staging Diagram





03

Next Steps

Next Steps

- Present Master Plan to Council for endorsement.

Recommendations

We highly recommend these be done going forward to allow for detailed design stages:

- Site Survey
- Flood Risk Assessment Report and modelling
- Geotechnical Report to assist with structural requirements for structures.

