



Corrimal Precinct Landscape Design
SOUTHERN RECREATION PARK
State Significant Development Application

S18-0070 Issue M • January 2026



CORRIMAL PRECINCT LANDSCAPE DESIGN

Southern Recreation Park
State Significant Development Application

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Note: this document is preliminary unless validated.



Existing Corrimal Cokeworks Site.



We acknowledge and respect the Dharawal people as the First Nations Community of the Illawarra region. We pay our respects to Dharawal elders, past, present and emerging.



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Image on left: Existing Vegetation at Corrimal Cokeworks Site.

1.0 Introduction

1.1 Executive Summary

This Southern Recreational Park Report has been prepared by CLOUSTON Associates - a division of Beveridge Williams to accompany a State Significant Development Application (SSDA) which seeks development consent for facilitating civil works and subdivision to support a concurrent Stage 2a Built Form SSDA (SSD-83789711) and the future redevelopment of Stages 2-4 of the Corrimal Coke Works Precinct. The civil works proposed by this SSDA include the construction of the Central Park, the Southern Recreational Park, and roads, drainage and stormwater infrastructure, and paper subdivision.

This Southern Recreational Park Report has been prepared to address the requirements of SEARs (#14) – in relation to trees and landscaping.

This civil works SSDA was declared as State Significant Development (SSD) in the State Significant Development Declaration Ministerial Order (No 10) 2025 (dated 30 June 2025) at Clause 5(1) (n) in Schedule 1 (Amendment SSD Declaration Order 2025 (No 5)).

The purpose of this Report is to detail the embellishment works of the Southern Recreational Park, which are consistent with / implement the scope of works agreed for the Southern Recreational Park in the executed VPA.

Descriptor	Site Details
Proponent / Applicant	Legpro 70 Pty Ltd ATF Legpro 70 Unit Trust (Legacy)
Site Ownership	Illawarra Coke Company
SSD Reference	SSD-86131212 [SEARs issued 3 July 2025]
Project Name	Corrimal Coke Works - Stage 2-4 Early Stage (Civil) Works
Street Address	Corrimal Coke Works, 27 Railway Street, Corrimal
Country	Dharawal Country
Project Description (Relevant works for this Report in bold)	The civil works SSDA seeks development consent for the following works: • Torrens subdivision to create nine (9) new title lots (referred to as Lot 200, Lot 201, Lot 202, Lot 203, Lot 204, Lot 300, Lot 301, Lot 302, and Lot 303 in DP1313981). • Detailed civil works associated with the construction of local roads and drainage works relevant to future Stages 2-4. [Note. The detailed civil works will be enabled by the outcomes of the approved Stages 2 - 4 Bulk Earthworks DA (which includes vegetation management and creek alignment / embellishment works) (reference: DA-2023/823)]. • Construction of the Central Park (including embellishment works, lawn areas, landscaping, tree planting, equipment, and services). • Construction of the Southern Park (including embellishment works, lawn areas, landscaping, tree planting, equipment, and services). • Public domain works (landscaping, street tree planting, paving). • Reticulation of site services and infrastructure (electricity, telecommunication, water, and sewer).

1.0 Introduction

1.2 Background

The Corrimal Cokeworks operated for over 100 years and provides a visual reminder of the role that coke-making has played in the local coal and steel industries. The activity on the site was a key component in the establishment of Corrimal as a suburb and ensured the economic health of the locality as a continuous employer of local families.

The site has been assessed as possessing historical, aesthetic, social, technical, rarity and representativeness significance at a local level.

Since the closure of the Corrimal Cokeworks in 2014, the site has become a vacant and dilapidated block of land within an otherwise vibrant suburb of Wollongong. This has become an ideal opportunity to re-purpose the site for residential development while retaining references to its industrial heritage.

The proposed rezoning of the site aims to revitalise a dilapidated portion of Corrimal and is likely to benefit the local community and the Illawarra as a whole.

This development application considers the opportunities available to deliver a high-quality public domain that complements the proposed development at the Corrimal Cokeworks.

The area addressed in this application principally relates to the Southern Recreation Park.

The design presented in this application represents the most viable option in terms of encouraging community interactions and facilitating unstructured recreational activities for a range of demographics, as well as providing a transition zone between the Grey-headed Flying-fox core camp and future residential development. The site also contains significant remnant vegetation, including endangered ecological communities, areas of which are proposed to be retained as part of the development process.

The detailed design of the public domain areas will be subject to further refinement, information and documentation during the next phases of the approval process.

Image on right: Existing Corrimal Cokeworks site.



1.0 Introduction

1.3 Project History To Date

Since 2015, planning and consultation with the community has been on-going as follows:

- A rezoning proposal was lodged with Wollongong City Council in October 2017 and endorsed by Council in April 2018
- Received a Gateway Determination from the NSW Department of Planning and Environment August 2018
- Additional community consultation and planning studies have now been undertaken and resulted in changes to the original master plan.

There are different elements that will play a role in the integrated strategic planning and development measures such as heritage, ecological communities, riparian corridor and connecting into the local network.

Not only has the landscape and public realm informed the rezoning and the DCP but also the visionary workshops and community input.



Image 1.0 Preliminary artist impression of Heritage Plaza looking south-east.

A brief time-frame of planning processes that have been undertaken in the last three years is outlined below as well as items planned.

2017-2018:

- Planning Proposal lodged
- Gateway Determination
- Commence additional studies

2019:

- Ongoing consultation
- Additional studies completed
- Updated Master Plan
- DCP preparation
- Public exhibition

2020:

- Rezoning Gazettal
- Bulk earthworks and remediation

2021-2026

- Ongoing delivery of built form

2022

- Wollongong City Council release site specific Development Control Plan for the 'Former Corrimal Coke Works Site'

2023

- Pre DA package submitted to Wollongong City Council

2024

- Section 34 commenced

2025

- Civil works SSDA was declared as State Significant Development (SSD) in the State Significant Development Declaration Ministerial Order (No 10) 2025 (dated 30 June 2025) at Clause 5(1)(n) in Schedule 1 (Amendment SSD Declaration Order 2025 (No5).



Image 1.1 Preliminary artist impression of Central Park south-west.

2.0 Site Context



2.1 Regional Context

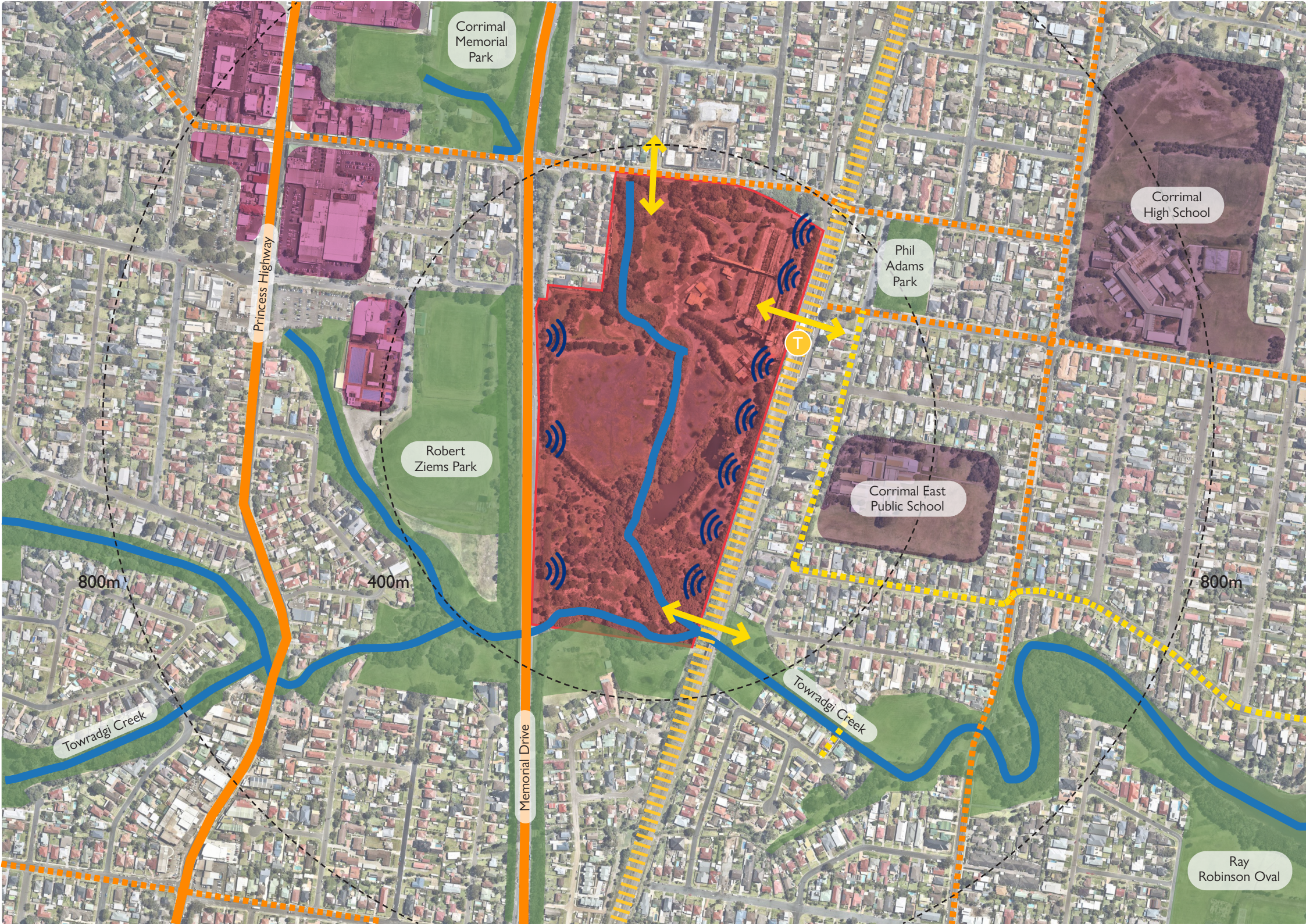
The Former Corrimal Cokeworks site is located approximately 63.5 km south of Sydney's CBD and 5.5 km north of Wollongong's CBD.

The site is very well connected in terms of road and transport. Railway Street to the north serves as a main connector to Corrimal's urban centre. While Memorial Drive to the west is a major arterial road offering connections to both Sydney and Wollongong CBD's as well as the South Coast. The same goes with Corrimal Train Station which lies directly east of the site and offers services to both Sydney and Wollongong.

LEGEND

- Former Corrimal Cokeworks - Proposed Site
- Corrimal Shopping District
- Main Roads
- Existing Footpath / Cycle Path
- Railway Line
- Creekline
- Existing Green Open Spaces
- Train Station
- Corrimal District Library and Community Centre
- Corrimal Pool
- Corrimal Public School
- Corrimal High School

2.0 Site Context



2.2 Local Context

The Former Corrimal Cokeworks site sits within a primarily residential catchment in close proximity to Corrimal's urban centre, shops and local schools.

The site also forms part of a broader open space network with Towradgi Creek to the south, as well as major local recreational assets surrounding the site's perimeter such as:

- Robert Ziems Park
- Phil Adams Park
- Corrimal Memorial Park
- Corrimal Pool
- Corrimal Library and Community Centre

LEGEND

- Former Corrimal Cokeworks - Proposed Site
- Main Roads
- Secondary Roads
- Proposed Pedestrian Links
- Bicycle Routes (Unmarked)
- Railway Line
- Train Station
- Existing Green Open Spaces
- Creekline
- Corrimal Shopping District / Library / Community Centre / Corrimal Pool
- Noise

2.0 Site Context

2.3 Planning Context

There are specific Planning requirement for the local area of Corrimal has been listed. The following objectives has been extracted from the Wollongong DCP 2009 – D19 - Former Corrimal Coke Works Site.
The design response has incorporated and carefully addressed, outlined as follow.

Overall Objectives <i>(specific to the southern recreation park)</i>		Design Response
1	Enable the development of the Site in a manner consistent with Wollongong Local Environmental Plan 2009 and the former Corrimal Coke Works Site Master Plan outlined in Section 4 of this Chapter.	The design of the Southern Park is consistent with the former Corrimal Site Coke Works Master Plan.
2	Create a high quality, safe and accessible public domain that provides a range of recreational and community benefits.	A wide range of recreational spaces have been created, including a nature based play area, amphitheatre, multipurpose fenced area, viewing and gathering spaces and community gardens.
3	Protect the Grey-headed Flying-fox camp on the Site through the conservation of Endangered Ecological Communities and native vegetation, and maintenance of a buffer between the core mapped camp area and any future development.	The shared way generally follows the 50m Flying-fox offset area and creates a separation between the existing natural vegetation and the new Southern Park.
'Southern Recreation Park' Objectives		Design Response
1	Encourage community interaction and facilitate unstructured recreational activities for a range of demographics.	A wide range of recreational spaces have been created, including a nature based play area, amphitheatre, multipurpose fenced area, viewing and gathering spaces and community gardens.
2	Provide a transition zone between the Grey-headed Flying-fox core camp and future residential development.	The 50m and 100m offset zones have been taken into account in the design.
3	Acknowledge and provide for retention and conservation of significant First Nations cultural value attachments to the creek and riparian vegetation areas in the south of the site.	Gathering spaces have been created for potential use by local First Nations communities as part of the CwC informative walk, incorporating existing vegetation.

2.0 Site Context

2.3 Planning Context

There are specific Planning requirement for the local area of Corrimal has been listed. The following objectives has been extracted from the Wollongong DCP 2009 – D19 - Former Corrimal Coke Works Site.
The design response has incorporated and carefully addressed, outlined as follow.

'Southern Recreation Park' Development Controls		Design Response
1	The Southern Park must be a minimum 0.7ha in size.	The new Southern Park is larger than 0.7ha in size.
2	Incorporate a community garden/urban farm, as generally indicated in Figure 15. Provide appropriate facilities to support the operation of a community garden, including water supply and shed for storage of equipment.	A community garden has been incorporated as part of the DCP requirements.
3	Design of this place is to provide flexibility to accommodate a designed off-leash area (fully fenced) if declared as such, excluding the 100m buffer zone from the Grey-Headed Flying-fox camp.	A multipurpose area featuring retaining walls soft landscape buffer serving as an informal barrier, has been integrated into the overall design.
4	Provide information/education signage or other acknowledgement of the First Nations community cultural value attachments to the creeklines and remnant vegetation in the southern areas of the Site, in consultation with the local First Nations community.	Gathering and learning areas have been incorporated into the design, supported by informative and educational signage that highlights the significance of these spaces in relation to CwC.
5	Provide information/education signage to facilitate community awareness and understanding of the Grey-headed Flying-fox camp located on the Site. A southern edge defining element shall be incorporated into the design (ie a fence, a pathway, or the like), to provide an adequate threshold between the park and the natural bushland, and respond to the topography of that part of the site. A viewing platform may be incorporated on the park edge.	Part of the informative signage to be positioned at the rainwater garden area.
6	The Southern Park shall receive at least four hours of continuous solar access to at least 70% of its area all year round. Solar Access Studies showing the extent of overshadowing on the Southern Recreation Park between 9am and 3pm on 21June are to accompany development applications. Note: existing trees are not subject to this clause.	A shared way creates the physical barrier and separation between natural existing vegetation and the new southern park to be maintained by Council.
7	The Southern Park shall receive at least four hours of continuous solar access to at least 70% of its area all year round. Solar Access Studies showing the extent of overshadowing on the Southern Recreation Park between 9am and 3pm on 21June are to accompany development applications. Note: existing trees are not subject to this clause.	The design of the Southern Park ensures solar access is consistent with requirements, particularly for all buildings located outside the 100m Flying-fox offset zone.
8	In accordance with Schedule 3 of the Planning Agreement Contributions, approximately 7,000 sqm of land shall be dedicated for the Southern Recreation Park, and approximately 76,000 sqm shall be dedicated as Riparian Corridor land.	Although the Riparian Corridor alone does not satisfy the 76,000m ² contribution requirement under Schedule 3, the increased area dedicated within the Southern Recreation Park at 8,050m ² , when combined with the Riparian Corridor, results in a total dedication that exceeds the required contribution

2.0 Site Context

2.3 Planning Context

Specific planning requirements have been established for the local area of Corrimal. The following objectives have been drawn from the Planning Agreement for the Former Corrimal Coke Works site.. The design response has incorporated and carefully addressed the objectives, outlined as follows.

VPA 'Southern Recreational Park' Scope of Embellishment Work		Design Response
a	Site preparation and earthworks	Please refer to Civil Engineer's package for Site preparation and earthwork information.
b	Hard works - 1.2m concrete path, paving and soft fall.	The design satisfies the requirement for hard works, including the 1.2m concrete path, paving, and soft fall areas. Refer to page 25
c	Soft works - turf zone, native grasses and shrubs (6/sqm), 25 advanced trees	Soft works requirements met: turf zones, native grasses and shrubs (6/sqm), and 25 advanced trees are included in the design. Refer to page 25
d	Furniture and fixtures - pergola, seating bollards, tactile indicators	The design includes furniture and fixtures such as a shade shelter and, ample seating walls along pathway connections have also been provided to enhance comfort and resting opportunities. Refer to page 25
e	Services - lighting, two water points, signage.	Refer to page 29-30 5.4: Indicative Lighting Design for lighting information. Refer to page 31-32, 5.5: Arrangement in Plan for water points & signage information.
f	Play Area/Equipment - nature based play area with provision of inclusive elements.	The design promotes natural play by reusing existing site materials, reinforcing the site's character while minimizing waste.
g	Community Garden - raised planting beds, one water point, storage shed.	The design incorporates a community garden featuring raised planting beds, a water point, and a storage shed. Refer to page 31, 5.5: Arrangement in Plan for water point & storage shed information.
h	Off-leash dog park - fencing and gate access.	The multipurpose area, as shown in the design, will be fenced to function as an off-leash dog park. Refer to page 25
i	Maintenance - planting establishment and maintenance for 3 years.	Refer to page 44-45, Section 12.0: Indicative Landscape Maintenance.

2.0 Site Context

2.3 Planning Context

'Grey-Headed Flying-Fox Camp' Objectives		Design Response
1	Protect the Grey-headed Flying-fox camp on Site through the conservation of Endangered Ecological Communities and native vegetation and maintenance of a buffer between the core mapped camp area and any future development.	The 50m and 100m offset zones have been taken into account in the design.
2	Ensure future residential development is located and designed to mitigate against noise and other impacts associated with the Grey-headed Flying-fox camp on Site.	Residential development falls outside the 100m Flying-fox offset zone. Dense vegetation within the Southern Park is proposed particularly along certain edge treatments to specify zone transitions.
'Grey-Headed Flying-Fox Camp' Development Controls		Design Response
1	A minimum 100 metre buffer is to be maintained between the core mapped Grey-headed Flying-fox camp and any future development.	The 50m and 100m offset zones have been taken into account in the design.
2	Buildings in the vicinity of the Grey-headed Flying-fox camp are to be designed to reduce the level of potential disturbance, including orientation of buildings, material selection and noise attenuation.	Incorporated in the Architectural package.
3	A final Camp Management Plan is to be submitted to Council for approval at the time the initial Development Application is submitted proposing earthworks associated with the realignment of the riparian corridor and/or at the time a Development Application is submitted that proposes earthworks within the 100m buffer area of the Grey-headed Flying-fox Camp. This is to ensure the protection of the Grey-headed Flying-fox camp and shall address ongoing management and protection outcomes, including (but not limited to) - - Vegetation outcomes and management within the buffer area. - Community education. - Provision of aquatic habitat within the riparian corridor. - Any proposal for supplementary habitat to support expansion of the camp away from the residential development. - Construction management measures to minimise potential disturbance to the Grey-headed Flying-fox camp.	To be viewed in conjunction with the Civil works package.
4	A Vegetation Management Plan is to be submitted to Council for approval at the time the initial Development Application is submitted proposing earthworks associated with the realignment of the riparian corridor, to achieve the ecological restoration of the entire length of the realigned corridor. Landscaping and vegetation species selection must be designed to prevent the expansion of the Grey-headed Flying-fox camp further north near future planned residential development. The Illawarra Lowlands Grassy Woodland Endangered Ecological Community in the southern part of the Site and other native plant communities are to be conserved and enhanced.	To form part of the Earthworks Stage 2-4 DA package. Suggested plant species by Ecological Aus have been incorporated. Specific fruit / flowering trees part of the bats diet have been avoided.
5	The realigned riparian corridor design is to incorporate a “belly dip” area in the south to enhance the protection of the Grey-headed Flying-fox camp.	A belly-dip area has been incorporated by the Civil works package on earthworks.

3.0 The Proposal

3.1 The Overall Master Plan

After consultant workshops and community consultations, Legacy Property and the design team developed a concept master plan for the former Corrimal Cokeworks site.

Architects DKO provided land use and built form objectives, which include:

- Provide a diverse range of building forms that respond to the differing conditions and interfaces.
- Define the main access with clear and consistent urban edges.
- Focus the tallest buildings close to Corrimal station and plaza.
- Integrate and re-use of retained structures with new development.
- Locate new retail and services close to Corrimal Station.

Landscape design was integrated into the built form and CLOUSTON Associates applied the following landscape objectives to all open spaces

- Create a new public parkland along the realigned North Corrimal Creek.
- Incorporate landscape edge vegetation to preserve key interfaces for surrounding residents.
- Retain and enhance structures associated with the former uses on the Site.
- Enhance proposed Heritage Plaza adjacent to Corrimal Station.
- Define a fine grain network of streets, lanes and pedestrian links.
- Frame internal views and vistas.
- Create a system of cycle paths that link to key destinations and connect into wider network.

The construction, embellishment, and planting of the Southern Recreation Park forms part of the Stage 2-4 Civil Works SSDA.



Image 3 Overall Master Plan

3.0 The Proposal

3.2 Landscape Design Principles and Strategy



Site Heritage and Story

Harness the drama and scale of the site's First Nations and European cultural heritage, and natural history.

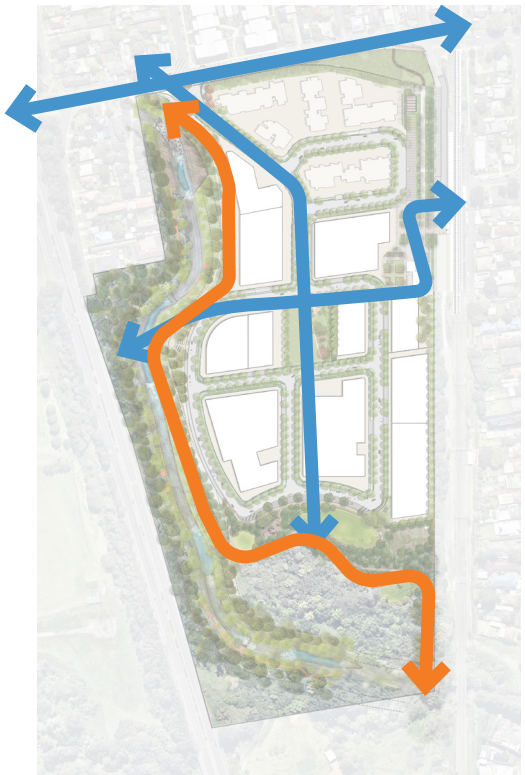
(Frost Design - United through stories Principle)



Celebrate the Creek

The creek must have recreational appeal, and become a coherent connection that forms a familiar rhythm through the site.

(Frost Design - Bringing more to life Principle)



Connect People with Places

Rather than being an island, the site should have a meaningful relationship with the surrounding neighbourhood, town centre, train station, parks, the escarpment and the coast.

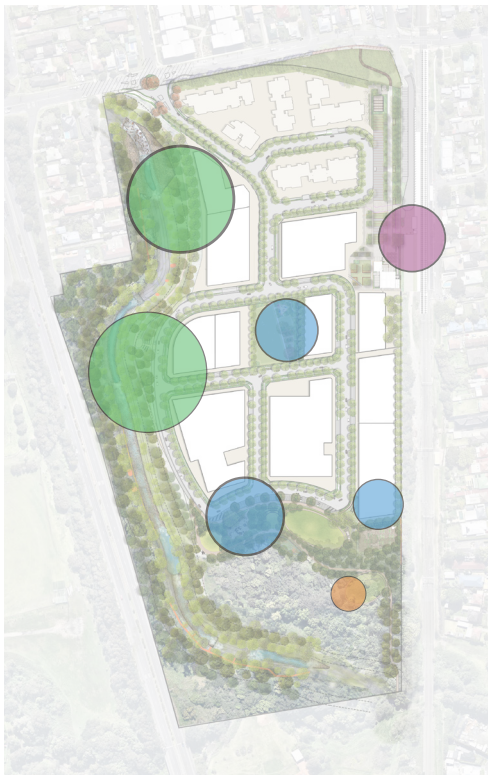
(Frost Design - Made for friendship Principle)



Create a Memorable Experience

Public spaces need multiple and varied areas for human interaction. By fostering a sense of belonging – whether it is fleeting/temporary or regular/ongoing-people establish a connection with their experience of the site.

(Frost Design - Designed for difference Principle)



Create Places to Play and Learn

Provide ongoing stewardship of the landscape to maximise amenity, presentation and preservation of the parklands for generations to come.

(Frost Design - Made for friendship Principle)

3.0 The Proposal

3.3 The Southern Recreation Park

A larger park will be sited on the southern side of the new development. With a total size of over 7.0Ha, this park includes a combination of the following elements;

- Nature play area with inclusive play elements
- Multipurpose area
- Community Gardens
- Stepped seating amphitheatre with lawn stage
- Large open lawn area
- Multi functional gathering spaces
- Shelter and seating
- Bush tucker trail

The park will provide for day-to-day passive recreational needs of the community. It will have a road edge on the northern edge with spectacular views towards the riparian corridor to the south especially the bat belly dipping area. This backdrop will be framed by the escarpment.

An open lawn area will be incorporated within this local park, with shade trees to create a relaxed picnic setting for residents and a space for children to kick a ball around.

Access pathways will connect into the southern recreational park area from the riparian pathways to the north, as well as walkways connecting towards the train station.

The following pages will illustrate a high-level strategic design response for the Southern recreational park.

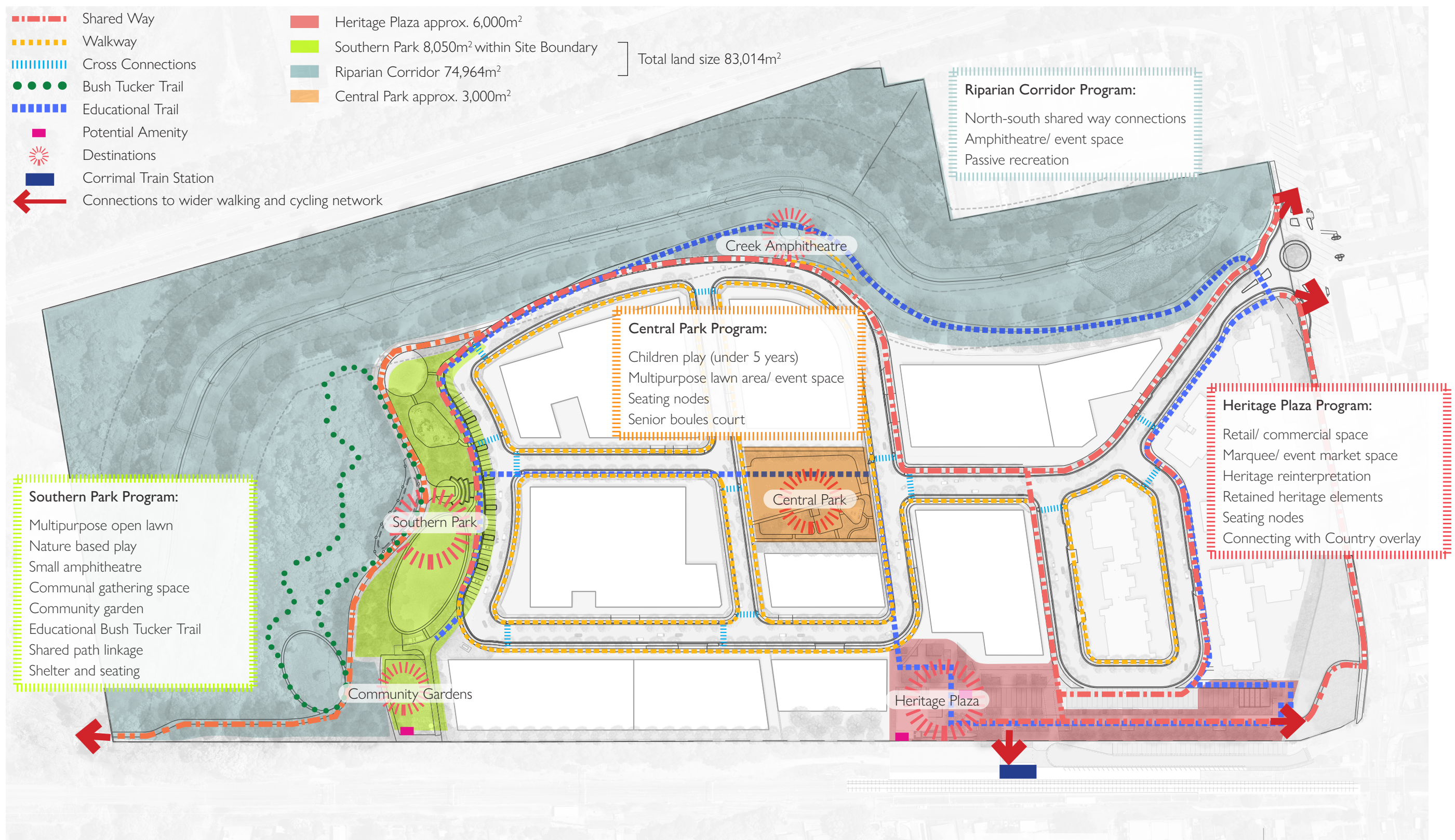
- Site Boundary
- Boundary of 'Southern Recreation Park' (8,050m²)



Preliminary artist impression of Southern Park in overall Master Plan.

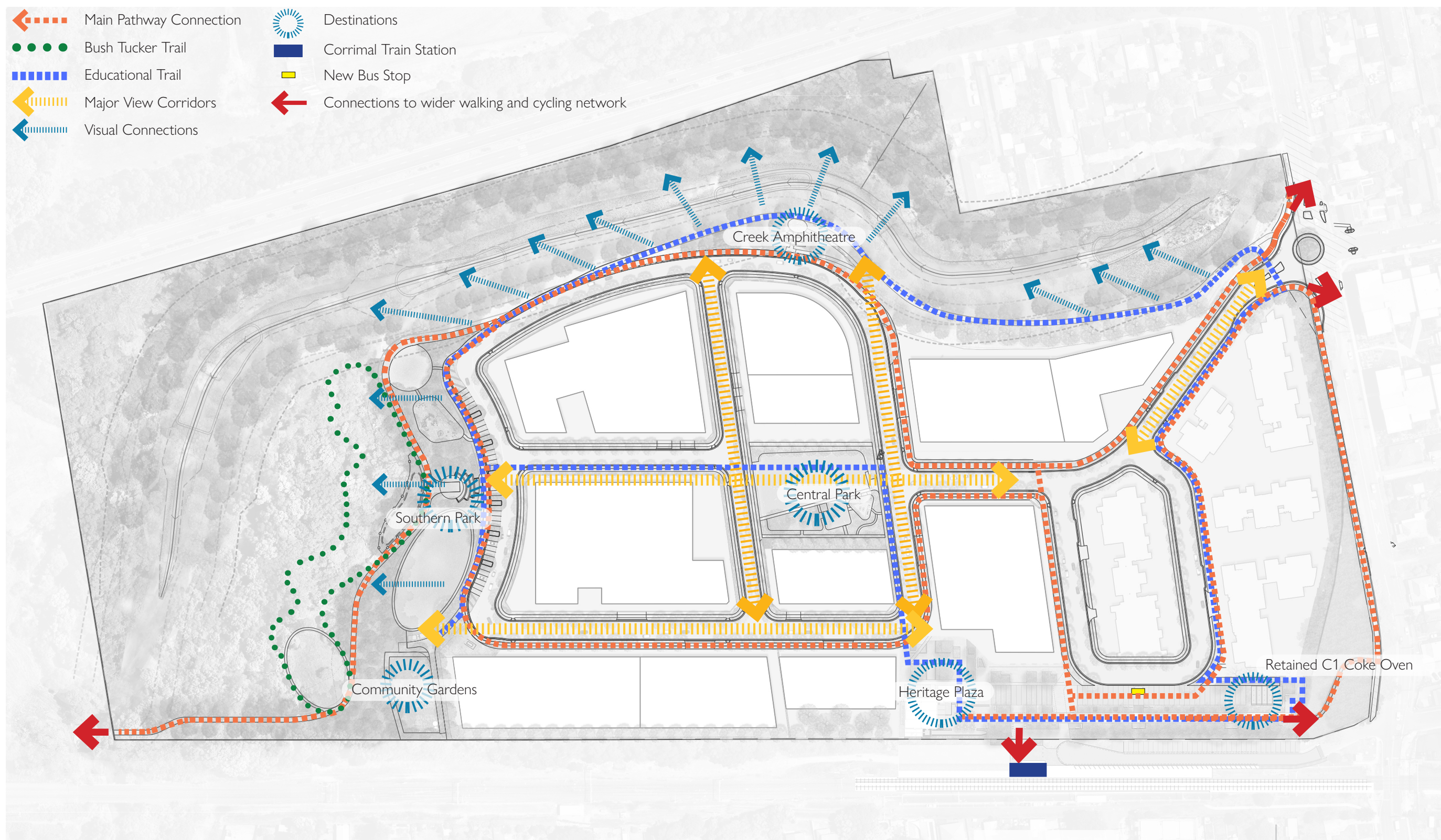
3.0 The Proposal

3.4 Character and Program



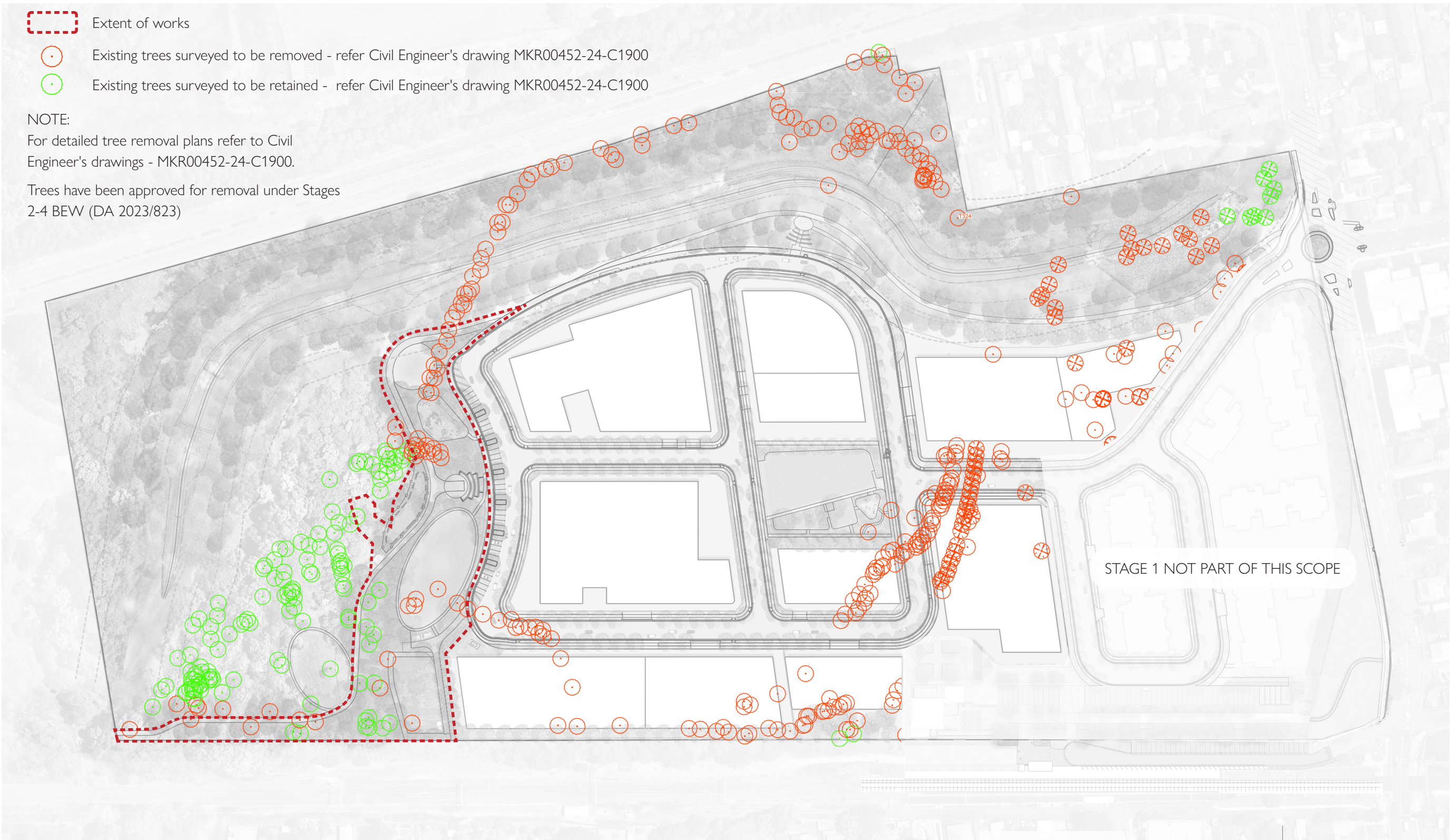
3.0 The Proposal

3.5 Connections and View Corridor



3.0 The Proposal

3.6 Existing Trees Removed and Retained



3.0 The Proposal

3.7 Connecting with Country (CwC) Opportunities

There is an opportunity to embed an understanding and sense of Country in all stages of the landscape design for this project.



3.0 The Proposal

3.8 Designing with Country

There is an opportunity to embed an understanding and sense of Country in all stages of the landscape design for this project.

To guide the design of the former Corrimal Cokeworks site, Waters Consultancy has been engaged to develop a 'Connecting with Country and Cultural Values Assessment Report'. This report identifies intangible First Nations cultural heritage values located within the site and provides a series of recommendations to protect and conserve these values.

These recommendations have informed many of the CwC opportunities identified in the project's overall landscape design (refer to previous page).

The Southern Park aims to provide deep and meaningful connections to Country, culture, and place by implementing the following design features. Please note that these design moves are subject to further exploration and refinement with the community during the design development stage:

- **Cultural trail:** The overall design includes a cultural trail that runs through the Southern Park, showcasing culturally significant plants, interpretive signage, educational activities, public art, and more. Walking tours will be available along this trail, and there are plans to collaborate with nearby schools to provide educational opportunities for students to deepen their understanding of Country.
- **Bush Tucker Trail:** The bush tucker trail will showcase culturally significant plants, connecting the community to the traditional uses of plants for food, fibre, and medicine within this Country. Additionally, it provides a space for the local First Nations community to retreat and engage in cultural practices, fostering a deeper connection to the land.
- **Culturally welcoming informal gathering spaces:** The Southern Park offers the opportunity for large gatherings or smaller, intimate gatherings of people depending on the occasion, time of day, and user preference. This gathering space is situated to the side of the park, providing a more intimate setting for the community to come together on Country within the natural setting of the development.
- **Flexible and adaptable destination spaces:** These spaces, such as the Community Garden, will be designed to be activated and used according to community needs and preferences. They will be able to accommodate community-led events, and other future uses.

- **Regenerative design approach:** The design of the Southern Park will contribute to the preservation and revitalisation of native plants, ecosystems, and material palettes specific to this Country.
- **Ongoing economic opportunities:** The design will aim to provide ongoing economic opportunities for First Nations communities and knowledge-holders through activities such as walking tours, education, landscaping works, and more.

- **Sourcing on-site and locally:** Proposing and implementing sustainable practices, including local procurement and gathering of vegetation and materials to reduce waste, carbon use through transport etc.
- **Language:** Through community involvement, the local Dharawal language and knowledge will be integrated into street names, interpretative signage and wayfinding.



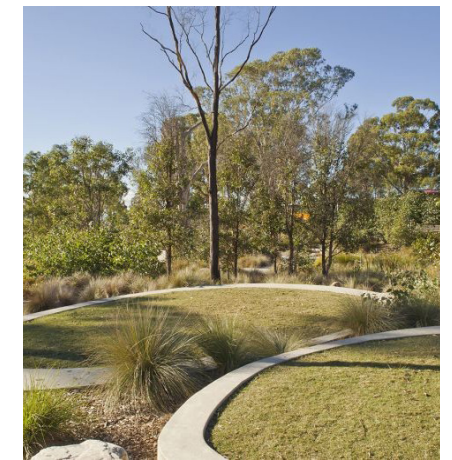
Public art opportunities.



Public art opportunities.



Public art opportunities.



Lizard Log Park.



Lizard Log Playground. Source: <https://www.archdaily.com/424319/lizard-log-mcgregorcoxall?ad_medium=gallery>

4.0 Design Principles and Strategy



Sustainability

- Protect the environment and enhance biodiversity
- Minimise impact on wildlife habitat



Integrity

- Embed Connecting with Country in the narrative line
- Reuse certain heritage elements within the parks



Functionality

- Regenerate the area with multiple spaces to support diverse programs
- Provide a casual outdoor public open space to support passive recreational activities



Connectivity

- Optimise walkability, permeability and connectivity of the site
- Strengthen the West-east linkages through the overall master plan
- Provide a down-stairs opportunity to connect with nature

5.0 Master Plan

5.1 Design Intent

Landscape Spaces

Overall Landscape Character and Function

Southern Park is envisaged as a dedicated recreation space for community enjoyment, while also providing a well-defined interface to adjacent ecologically sensitive areas. To achieve this, the park has been divided into the following spaces:

Open Lawn Area

A large open lawn area will be incorporated within the Southern Park to support unstructured recreational activities for the community - whether it's a picnic or children kicking a ball around. The flexibility of this lawn area provides residents with a communal recreational space that is local and suitable for a wide variety of functions.

Nature Based Play Area

Southern Park will feature an expansive nature-based play area. It is designed to blend with the surrounding natural landscape while offering fun features for children of all ages to enjoy. Natural play elements will be made using trees and materials salvaged from the site - specifically, existing trees logged from Stage 1 works and a number of large monster truck and construction vehicle tyres.

Community Garden

The community garden will serve as a designated space for residents to interact with one another. It will present as a space for sharing – whether through herbs, vegetables and fruits, or through garden knowledge and expertise. This space will encourage social interaction and strengthen a sense of community belonging.

Stepped Seating Amphitheatre

A stepped seating amphitheatre will be located to the west of the park's large open lawn area. It will provide overflow seating for nearby park spaces and serve as a space for the local community to gather and enjoy.

While smaller in scale than the amphitheatre situated to the north within the Riparian Corridor, it will still offer a versatile venue suitable for a range of outdoor events and activities.

Connections and Permeability

The overall design of the Southern Park is well connected, with clear access pathways that border and cut through the park. These routes offer the community multiple options to reach all destinations within the park, as well as the nearby riparian corridor, Corrimal Railway Station and the broader development. The pathway layout also promotes passive surveillance by maintaining clear sightlines throughout the park.

Lighting / Illumination

The lighting design for the Southern Park aims to minimise light pollution on

wildlife habitats. To minimise impact on the Grey-headed Flying Fox habitat zone, only designs with low illuminations will be considered within the 100m offset area. In contrast, high-illumination designs can be implemented in residential areas to ensure safety in the neighbourhood.

Heritage Interpretation

Southern Park will celebrate its heritage significance mainly through the design of a Bush Tucker Trail, dedicated gathering spaces and the preservation of vegetation along the ridgeline. The Bush Tucker Trail is planned for educational purpose, providing opportunities for learning First Nations knowledge and culture through the introduction of native plant species. Designed to maximise usages for First Nations communities, the open spaces provide potential gathering areas, while the Bush Tucker Trail enhances cultural and ecological education programs.



CwC weaving opportunity in the rain garden with specific plant species.

5.0 Master Plan

5.1 Design Intent

Planting and Materials

The design for Southern Park features a selection of plants and materials that are well integrated with the surrounding character.

Tree Retention and Removal

The area covering the Southern Park sits within the existing riparian zone of North Corrimal Creek. This is an area of extremely dense vegetation – of both exotic weed stock and native species such as Casuarinas.

The proposed works for Southern Park include the re-alignment of North Corrimal Creek and other associated works. Some of these works will require the removal of trees within or near the riparian corridor, as well as in areas designated for future open space and play spaces. In these instances, a number of new trees will be planted throughout the park to mitigate this loss and maximise tree canopy coverage.

Planting

Planting in Southern Park will be developed in collaboration with First Nations communities, prioritising First Nations knowledge to define an appropriate local character for the site. New planting schemes will reinforce the nearby bushland character and create a transition zone between the Grey-headed Flying-fox core camp and future residential development. Planting will also be used to offer high levels of amenity, encouraging community use of the park for a range of activities—whether it be picnicking, playing, gardening, or simply relaxing.

Many of the proposed plant species are locally found and recommended by Wollongong City Council's Development Control Plan 2009 (DCP), and will be further explored and refined in the Design Development stage.

Materials

Southern Park has been designed with a palette of simple and robust materials, with a focus on recycled elements. This material selection aims to maintain the nearby bushland character in a contemporary context and will be further explored and refined in the Design Development stage.

Paving materials have been selected for their aesthetic value, durability, functionality, and ease of maintenance. Low Carbon Concrete will be used for the paved pathway along the creek. Trunks from removed existing trees will be re-used as natural play elements, while the site's heritage significance will be acknowledged through the reuse of salvaged bricks from the former ovens as crushed gravel. This approach to materials will minimise the environmental impact of the design and complement the existing and future character of the site.

Furniture and Fixtures

All furniture in Southern Park (i.e benches, seating, play elements, and fencing) will be selected for their durability, ergonomics and aesthetic appeal to the rest of the site.

Climate Positive Design

The overall design of Southern Park aims to minimise its carbon footprint, optimise heat mitigation, and enhance biodiversity wherever practicable.

Design considerations for the Southern Park will therefore:

- **Minimise operational and embodied carbon emissions through the re-use of existing materials.** Re-use recovered materials found from site in landscape elements wherever possible (e.g. trunks from removed existing trees, crushed bricks etc.)
- **Integrate passive irrigation to minimise traditional forms of irrigation infrastructure.** For instance, stormwater harvesting for re-use and the integration of wicking beds have been considered throughout the design.
- **Maximise soil volume.** Prioritise connected soil networks to encourage mycorrhizal associations for optimal tree and plant growth.
- **Maximise permeable surfaces and paving.** Where possible replace hard surfaces with permeable soft surfaces to increase water infiltration and minimise urban run off.



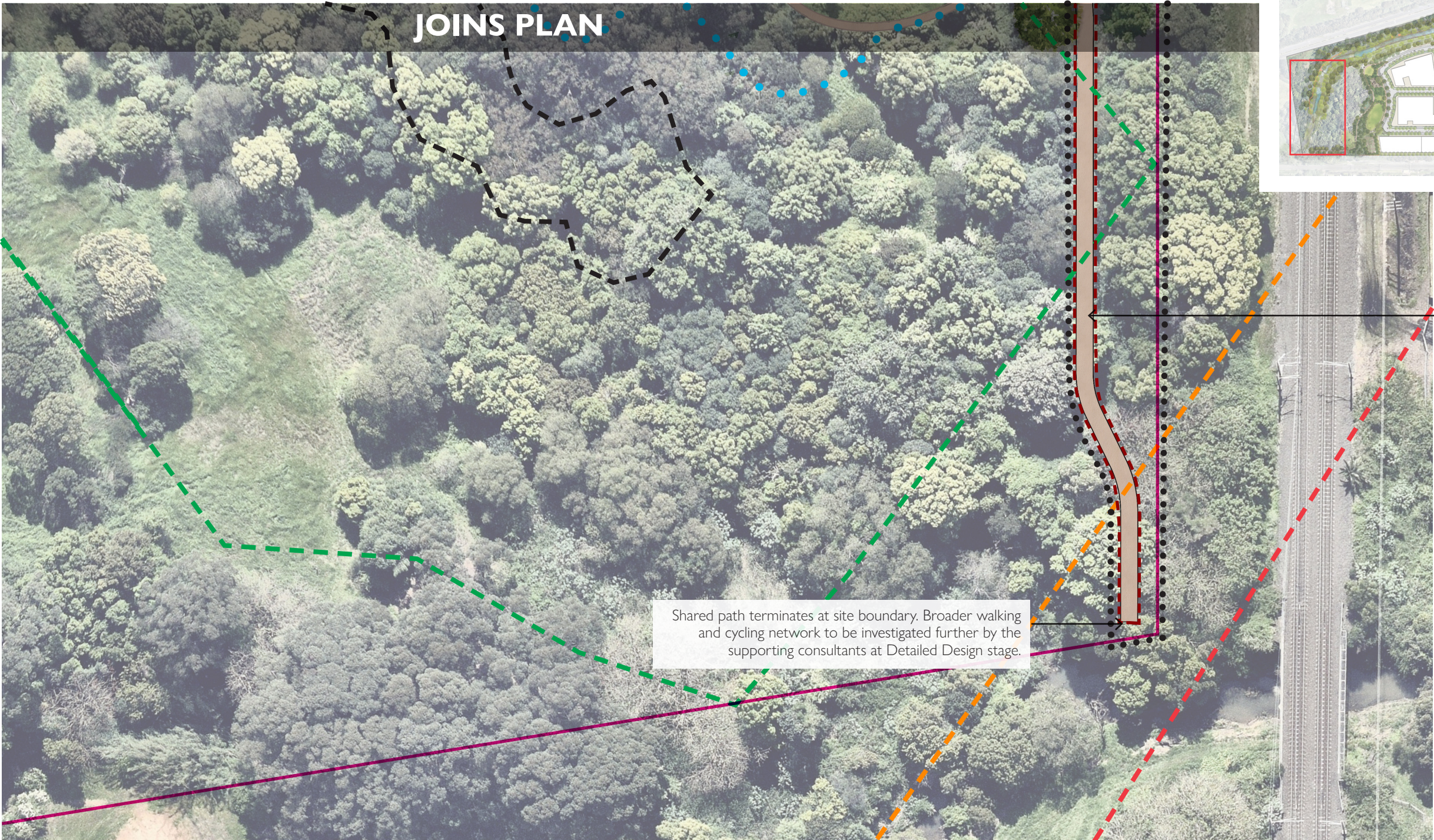
Southern Park

Proposed Design Layout



Southern Park

Proposed Design Layout



LEGEND

- ● ● ● Southern Park Boundary
- Extent of Works
- Site Boundary
- ● ● ● Bush Tucker Trail
- Core Bat Habitat Area
- 50m Bat Offset
- 75m Bat Offset
- 100m Bat Offset

Key Plan



General Note:
For Sharedway details refer to Maker drawing set MKR00452-11-STAGE 2-4 RESIDENTIAL SUBDIVISION. This is part of the Staged 2-4 civil works set.

Note: Logged trees and large monster truck / construction vehicle tyres to be re-used in the nature based play area.

CLOUSTON associates

S18-0070 • CORRIMAL PRECINCT LANDSCAPE DESIGN - SOUTHERN PARK STAGE SIGNIFICANT DEVELOPMENT APPLICATION



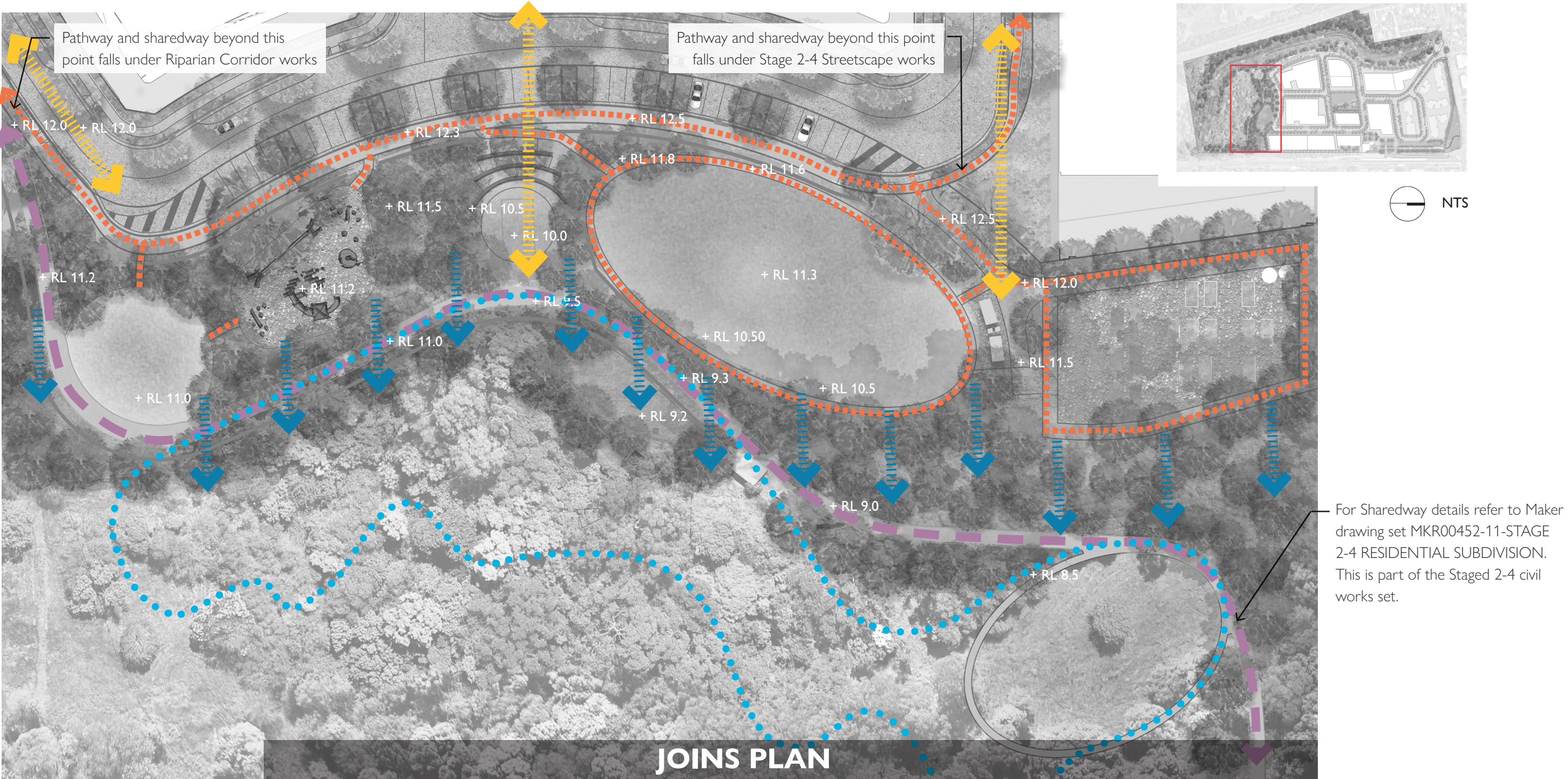
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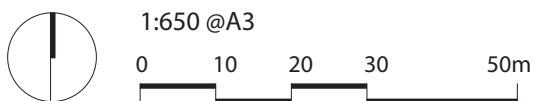
5.0 Master Plan

5.3 Proposed Circulation and View Connection



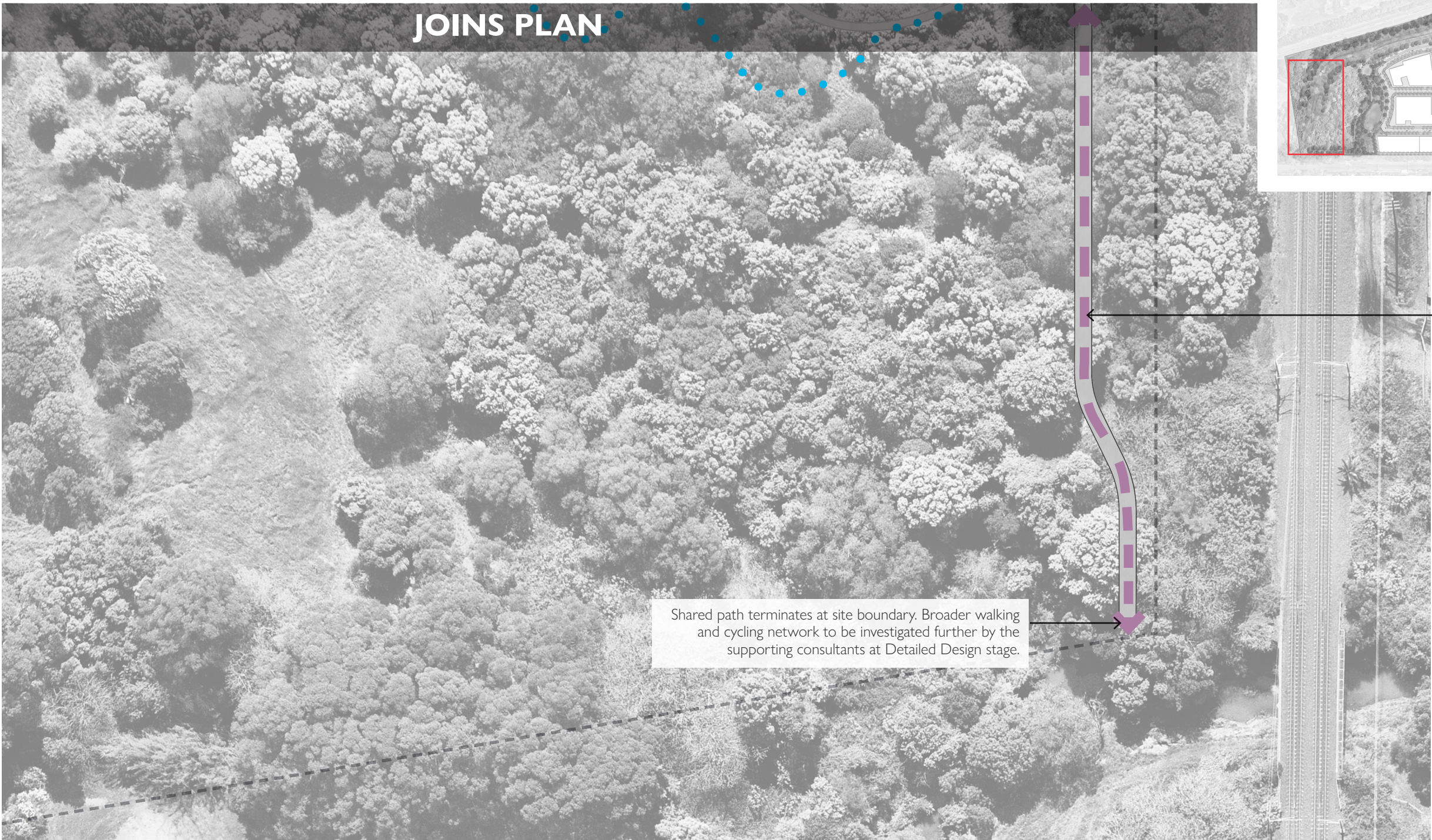
LEGEND

- Major View corridors
- Bush Tucker Trail
- Pathway Connections System
- Visual Connections
- Shared Path



Southern Park

Proposed Design Layout



Key Plan



General Note:
For Sharedway details refer to Maker drawing set MKR00452-11-STAGE 2-4 RESIDENTIAL SUBDIVISION. This is part of the Staged 2-4 civil works set.

LEGEND

- Major View corridors
- Bush Tucker Trail
- Pathway Connections System
- Visual Connections
- Site Boundary
- Shared Path



5.0 Master Plan

5.4 Indicative Lighting Design



Key Plan



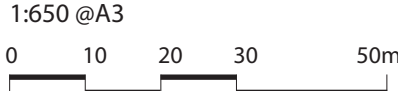
The illumination impacts from street lights on the residents of Building 2-4 will need to be investigated further by the Lighting Engineer and supporting consultants at Detailed Design stage.

Note: Lighting fixture details and specs to be confirmed in DD stage.

- ● ● ● Bush Tucker Trail
- ▲ Bollard Lights - BL
- Spot & Spike Lights - SS
- Park Light Poles - PL
- Street Lights Single - SL to ensure no illumination impacts on surrounding residential lots
- Ground/Wall Strip Lighting - GS

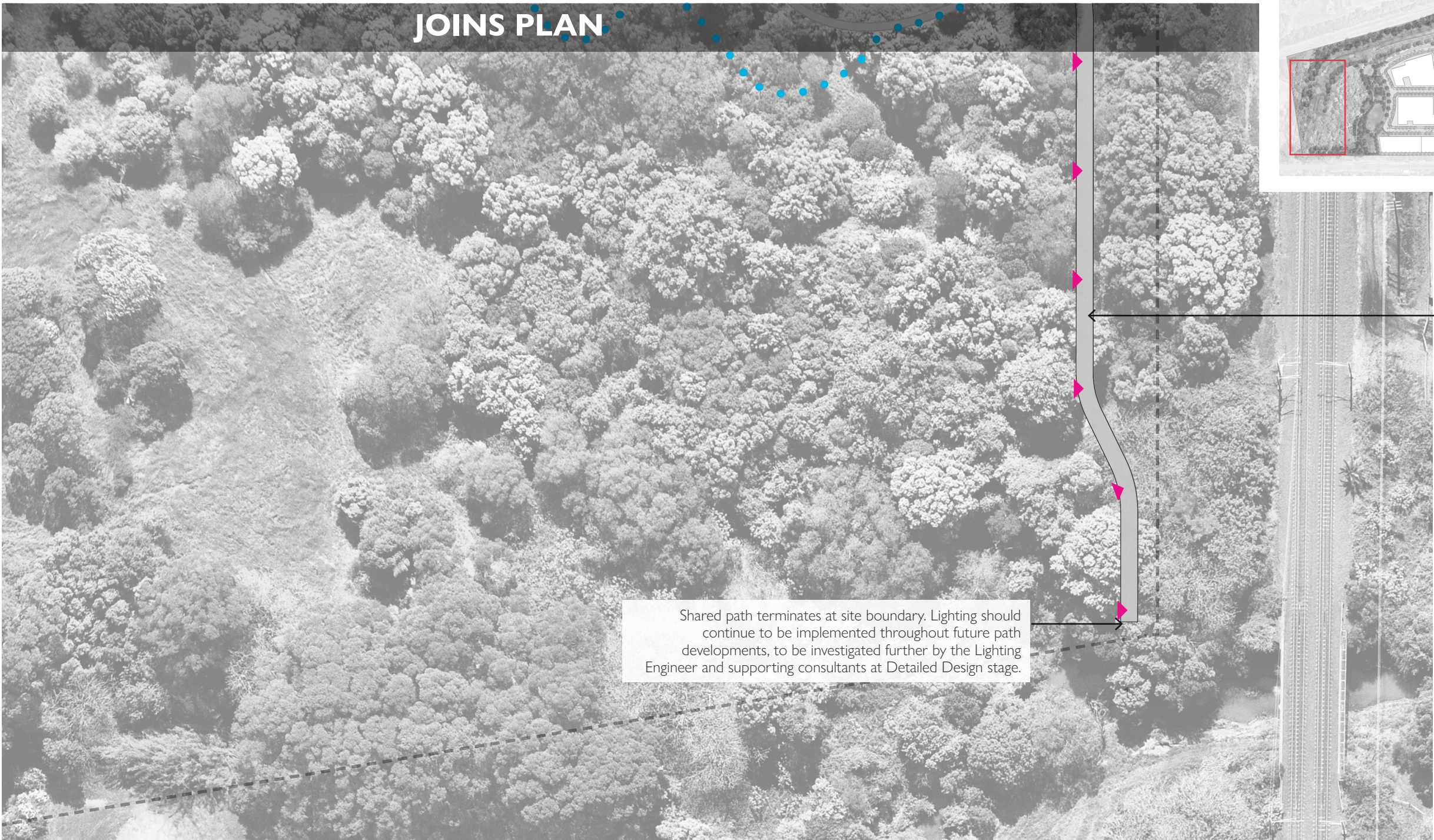
LEGEND

- | | | | | | |
|-----------------------|---------------------------------|--|--------------------------------|---|--------------------------------------|
| 1 Seating and Shelter | 3 On Street Car Parking Spaces | 5 Seating Wall | 7 Nature Based Play Area | 9 Vehicular Access to Community Gardens | 11 Native Low Shrubs and Grass |
| 2 Multipurpose Area | 4 Community Gardens/ Urban Farm | 6 Amphitheatre Stage & Maintenance Bay | 8 Multipurpose Gathering Space | 10 Potential CwC Gathering Space | 12 Natural Rain Garden/ Weaving Node |

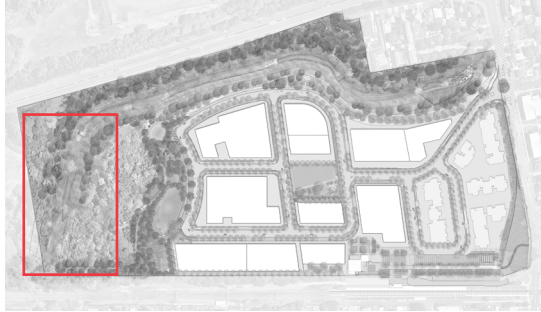


Southern Park

5.4 Indicative Lighting Design



Key Plan



General Note:
For Sharedway details refer to Maker drawing set MKR00452-11-STAGE 2-4 RESIDENTIAL SUBDIVISION. This is part of the Staged 2-4 civil works set.

Lighting fixture details and specs to be confirmed in DD stage

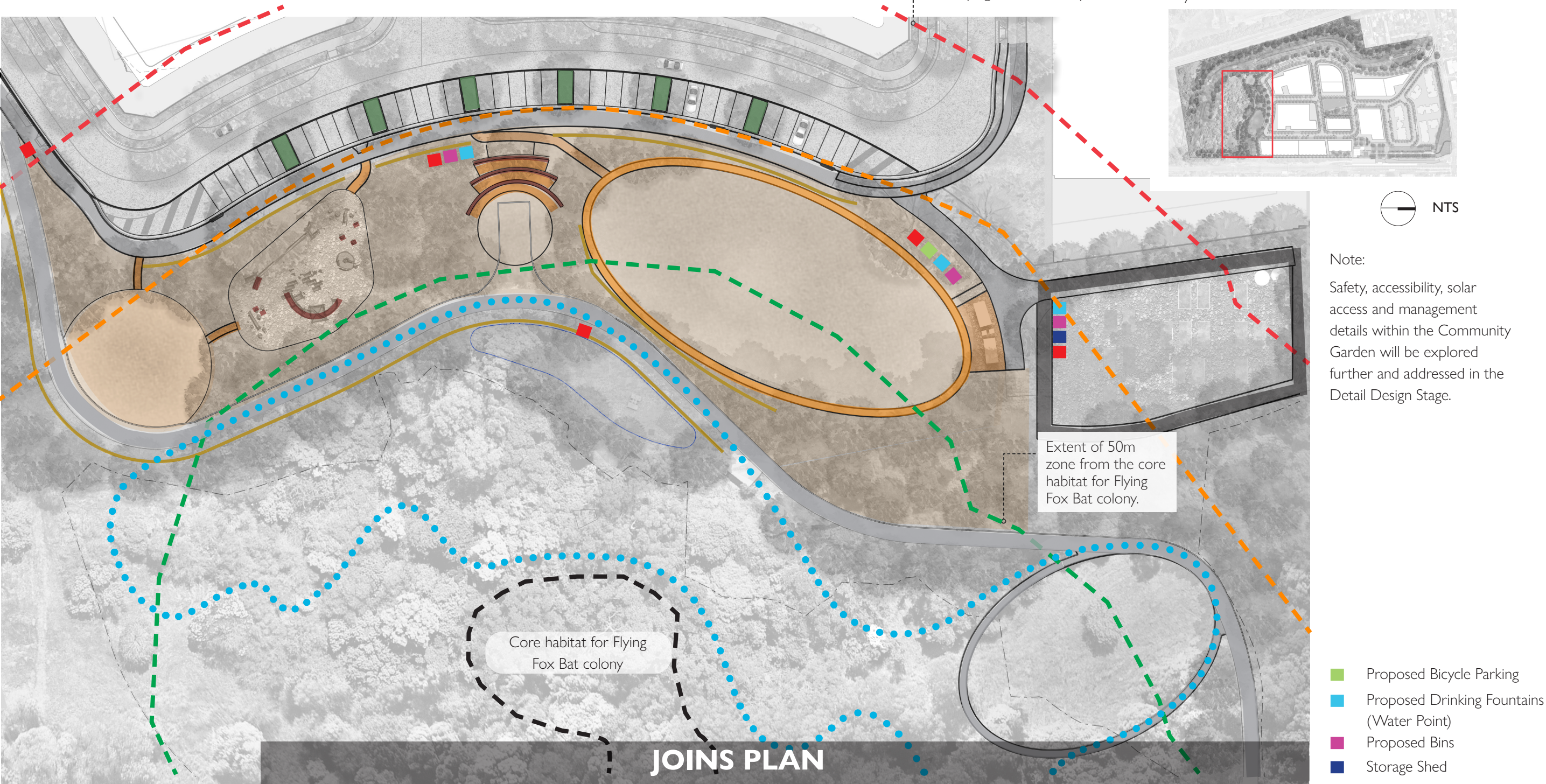
LEGEND

- | | | | | | |
|-----------------------|---------------------------------|--|--------------------------------|---|--------------------------------------|
| 1 Seating and Shelter | 3 On Street Car Parking Spaces | 5 Seating Wall | 7 Nature Based Play Area | 9 Vehicular Access to Community Gardens | 11 Native Low Shrubs and Grass |
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- ● ● ● Bush Tucker Trail
- ▲ Bollard Lights - BL
- Spot & Spike Lights - SS
- Landscape Post Top Light - PL
- Street Lights Single - SL to ensure no illumination impacts on surrounding residential lots
- Ground/Wall Strip Lighting - GS

5.0 Master Plan

5.5 Arrangement in Plan

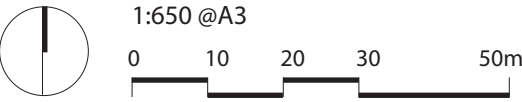


LEGEND

- | | | | | |
|--|--|-----------|---|-----------------------|
| Exposed Aggregate Concrete Dark (Paving Type 1) | Re-use Existing Material (Paving type 2) | Tree Pit | Retaining wall Refer Civil Engineers drawings | Core Bat Habitat Area |
| Exposed Aggregate Concrete Light (Paving Type 1) | Permeable paving (Paving Type 3) | Deep Soil | | 50m Bat Offset |
| | | | | 75m Bat Offset |
| | | | | 100m Bat Offset |

CLOUSTON associates

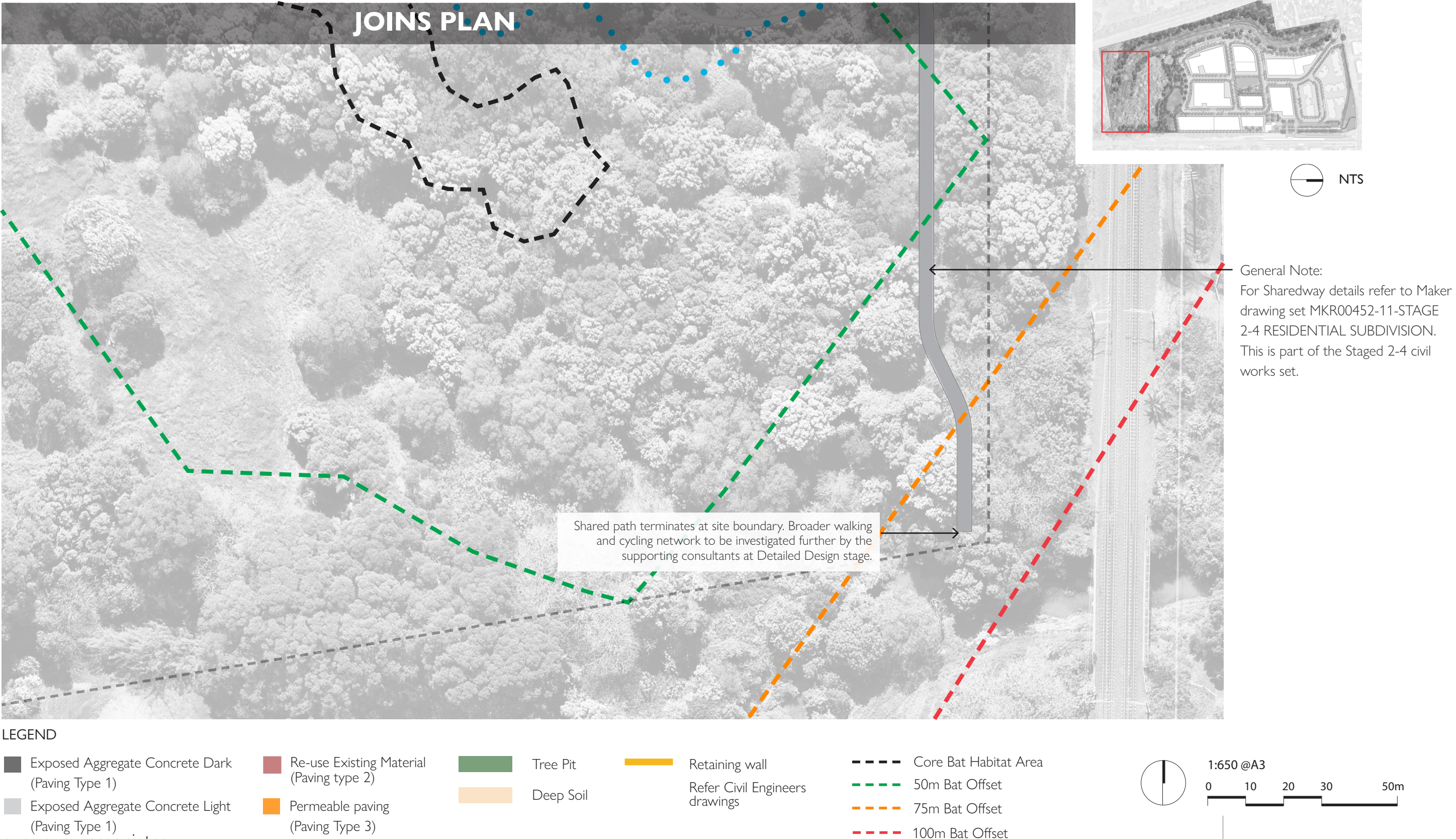
S18-0070 • CORRIMAL PRECINCT LANDSCAPE DESIGN - SOUTHERN PARK STAGE SIGNIFICANT DEVELOPMENT APPLICATION



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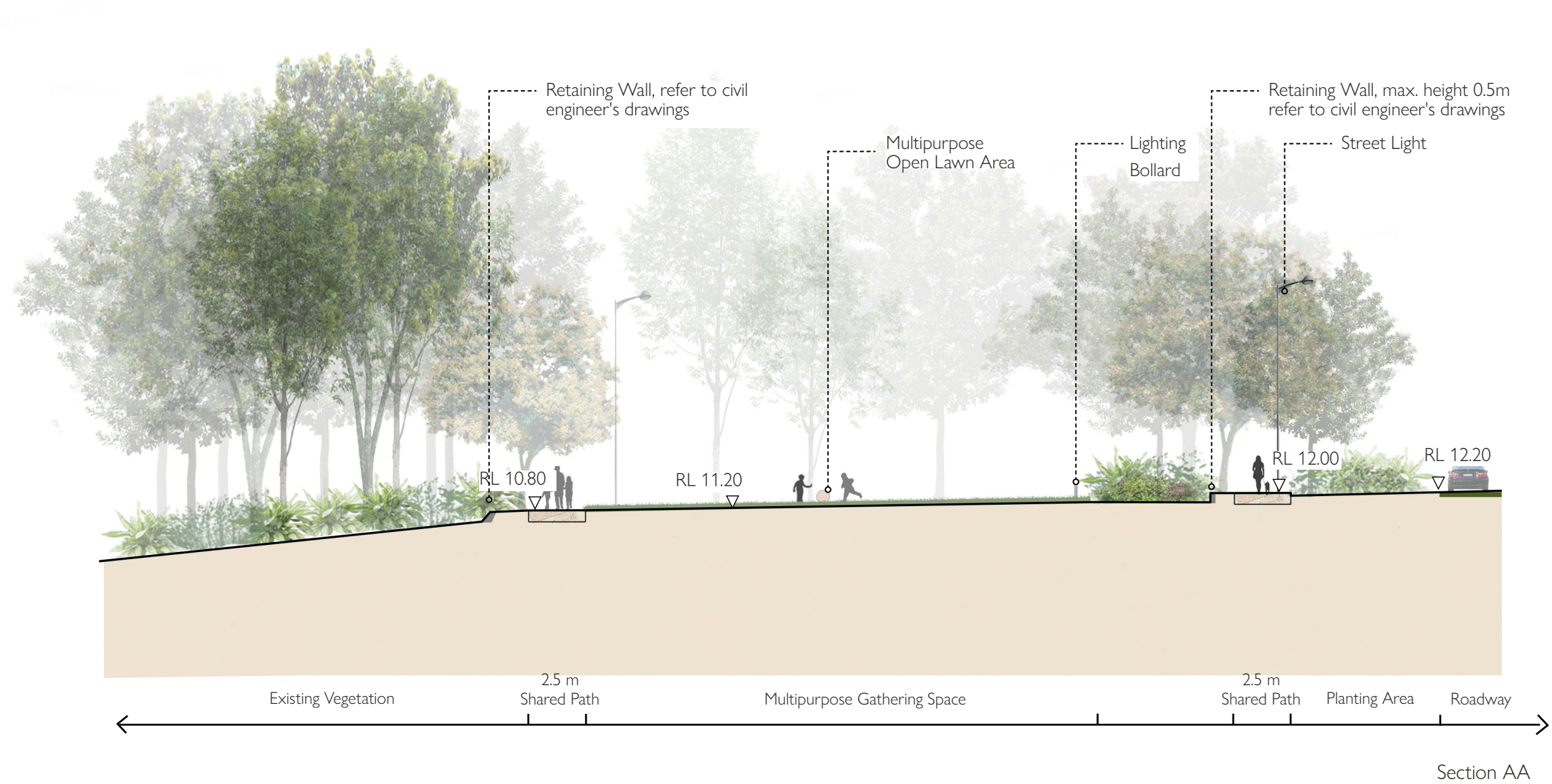
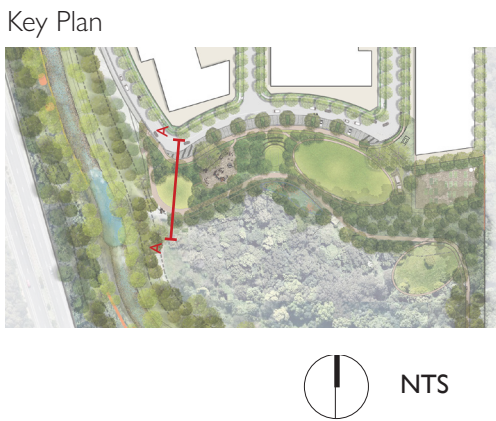
5.0 Master Plan

5.5 Arrangement in Plan



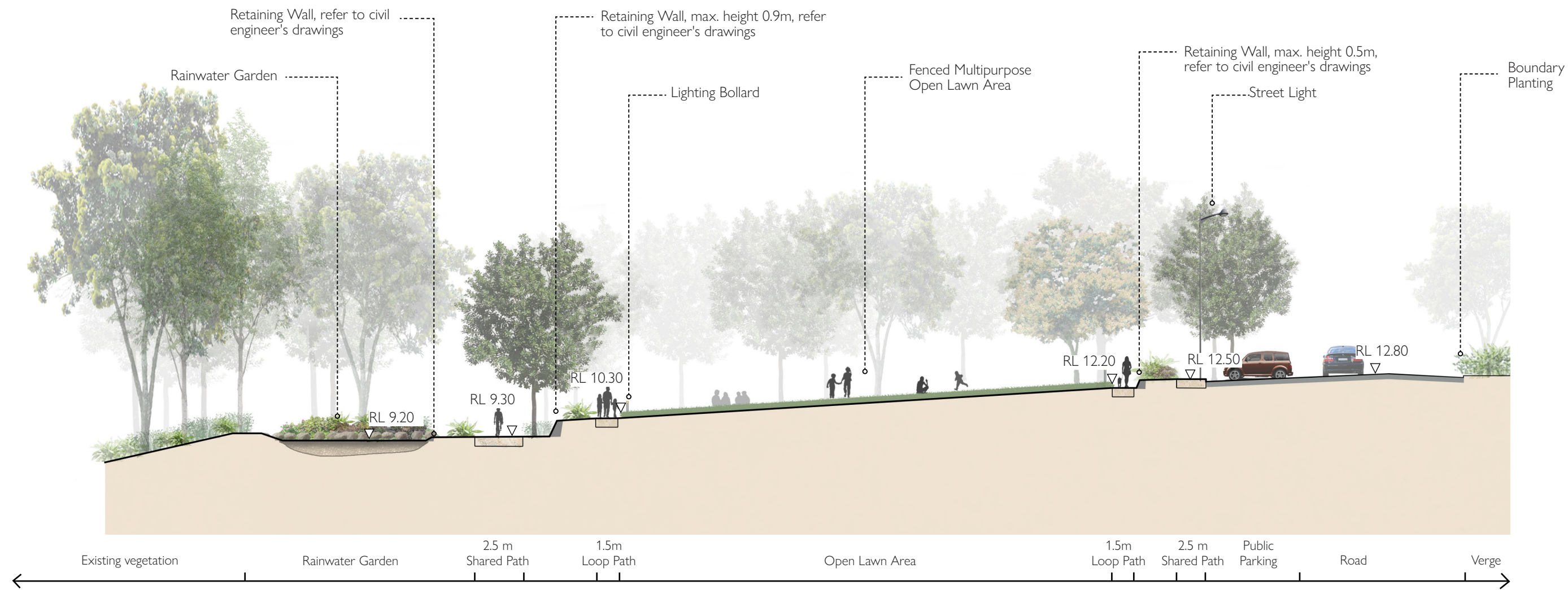
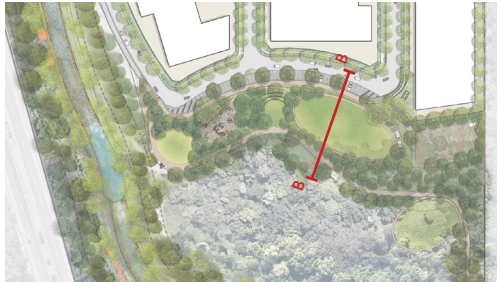
CLOUSTON associates

6.0 Sections



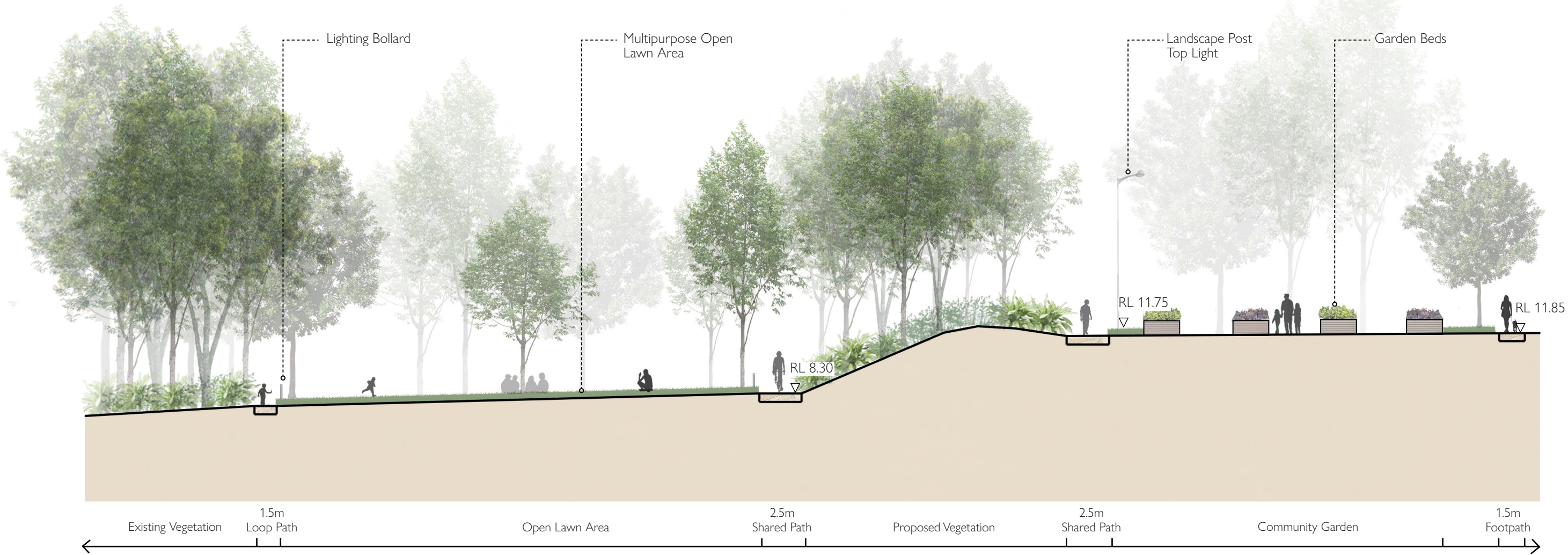
6.0 Sections

Key Plan



Section BB

6.0 Sections



Section CC

7.0 Green Infrastructure and Climate Positive Design

7.1 Landscape Approach



Passive Irrigation and Wicking Beds

All of the landscape areas a re-designed to maximise the use of passive irrigation. This:

- Captures small storm water events to top up soil moisture reservoirs.
- Captures water from air conditioning condensate to use for plants.
- Wicking beds are sand storage reservoirs at the bottom of the soil profile.



Maximum Soil Volume

Good soil is the foundation of tree planting. For trees to thrive and grow to maximum canopy, Chapter E6 of the DCP stipulates that “the area of the deep soil zone, especially around existing trees” should be maximised to “provide sufficient root depth” (Chapter E6 of DCP - Page 8, Section 5.3). This means:

- Tree planting beds of approximately 600-800mm deep plus 200mm sand wicking bed storage.
- Strata cells in streetscapes to support paving.



Maximising Permeable Surfaces and Paving

Where possible we have sought to replace hard surfaces with permeable soft surfaces. Chapter B1 of Wollongong’s DCP highlights the importance of this in allowing to increase “water infiltration and minimise urban run-off” (Chapter B1 of DCP - Page 7, Section 4.5.1).

This has been done by reducing the extent of pavements and enlarging the areas of garden beds,

- This maximises the area for capture and storage of water in the soil profile.
- Reduces hard surfaces that can absorb heat during the day.



Re-Use of Existing Materials

All of the landscape areas have been designed to include existing elements and materials found from the site. By re-using these materials waste is reduced and the site’s existing character is reinforced.

The Southern Park will re-use the following existing materials..

- Trunks of existing trees which have been removed on site (used as part of nature play).
- Crushed brick (used as gravel).

8.0 Character



Open lawn area



Open gathering space



Informal active play



Community garden



Shelter and seating



Nature based play

9.0 Planting

9.1 Planting Character



Backhousia myrtifolia
(Grey myrtle)



Alphitonia excelsa
(Red Ash)



Ficus macrophylla
(Moreton Bay Fig)



Fraxinus pennsylvanica 'Urbanite'
(Urbanite Ash)



Acmena smithii
(Common Lilly Pilly)



Streblus brunonianus
(Whalebone Tree)



Celtis paniculata
(Native Celtis)



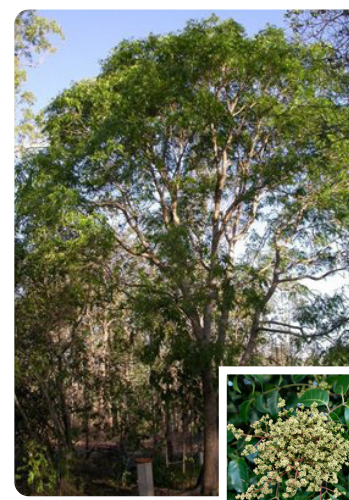
Syzygium leuhamii
(Weeping Lilly Pilly)



Ficus obliqua
(Small Leaf Fig)



Guioa semiglaucous
(Guioa)



Euroschinus falcatus
(Blush Cudgerie)

Note: Tree species and planting will be further developed with local First Nations communities.

9.0 Planting

9.2 Planting Schedule

TREE SPECIES

Key	Species	Common Name	Mature Height	Mature Spread	Pot Size	Spacing
BP	<i>Brachychiton populneus</i>	Kurrajong	10m	5m	75lt	As shown
FM	<i>Ficus macrophylla</i>	Moreton Bay Fig	30m	35m	75lt	As shown
LI	<i>Lagerstroemia indica</i> 'Tuscarora'	Crepe Myrtle	8m	4m	75lt	As shown
ML	<i>Melaleuca linariifolia</i>	Snow-in-summer	10m	4m	75lt	As shown
SP	<i>Syzygium paniculatum</i>	Magenta Lilly Pilly	10m	5m	75lt	As shown
TL	<i>Tristaniopsis laurina</i> 'Luscious'	Dwarf Water Gum	12m	5m	75lt	As shown

PLANTING MIX 1 - BOUNDARY BUFFER (Planting Density: 6 plants/sqm)

Key	Species	Common Name	Mature Height	Mature Spread	Pot Size	Spacing
Dia lit	<i>Dianella caerulea</i> 'Little Jess'	Dianella Little Jess	0.4m	0.4m	140mm	1
Dic rep	<i>Dichondra repens</i>	Kidney Weed	0.3m	1m	140mm	1
Gre spe	<i>Grevillea speciosa</i>	Red Spider-flower	2m	2m	140mm	0.1
Lir gig	<i>Liriope gigantea</i> 'evergreen giant'	Turf Lily	0.6m	0.6m	140mm	1.5
Mel cla	<i>Melaleuca</i> 'Claret Tops'	Honey Myrtle	1.2m	1m	140mm	0.5
Wes fru	<i>Westringia fruticosa</i>	Coastal Rosemary	2m	4m	140mm	0.25

PLANTING MIX 2 - PLAYGROUND (Planting Density: 6 plants/sqm)

Key	Species	Common Name	Mature Height	Mature Spread	Pot Size	Spacing / m2
Alt den	<i>Alternanthera dentata</i>	Little Ruby	0.9m	0.9m	140mm	0.5
Asp ela	<i>Aspidistra elatior</i>	Cast Iron Plant	0.7m	0.7m	140mm	0.25
Asp fla	<i>Asplenium nidus</i>	Bird's Nest Fern	1.2m	0.9m	140mm	0.25
Cor alb	<i>Correa alba</i>	White Correa	1m	1m	140mm	0.25
Dia lit	<i>Dianella caerulea</i> 'Little Jess'	Dianella Little Jess	0.4m	0.4m	140mm	0.75
Lir gig	<i>Liriope gigantea</i> 'evergreen giant'	Turf Lily	0.6m	0.6m	140mm	0.75
Myo par	<i>Myoporum parvifolium</i>	Creeping Boobialla	0.3m	1m	140mm	0.5

PLANTING MIX 3 - FEATURE PLANTING (Planting Density: 6 plants/sqm)

Key	Species	Common Name	Mature Height	Mature Spread	Pot Size	Spacing / m2
Alt den	<i>Alternanthera dentata</i>	Little Ruby	0.9m	0.9m	140mm	0.25
Asp fla	<i>Asplenium nidus</i>	Bird's Nest Fern	1.2m	0.9m	140mm	0.5
Bra ang	<i>Brachyscome angustifolia</i>	Grass Daisy	0.15m	1m	140mm	0.5
Chr api	<i>Chrysocephalum apiculatum</i>	Yellow Buttons	0.3m	0.5m	140mm	1.5
Cri ped	<i>Crinum pedunculatum</i>	Swamp Lily	2m	2m	140mm	0.1
Vio hed	<i>Viola hederacea</i>	Native Violet	0.1m	1m	140mm	0.75
Xan res	<i>Xanthorrhoea resinosa</i>	Grass Tree	2m	2m	140mm	0.1

PLANTING MIX 4 - SCREENING (Planting Density: 6 plants/sqm)

Key	Species	Common Name	Mature Height	Mature Spread	Pot Size	Spacing / m2
AS	<i>Acmena smithii</i>	Lilly Pilly	5m	3m	75lt	0.25
Lom lon	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush	1m	0.6m	140mm	4
SP	<i>Syzygium paniculatum</i>	Magenta Lilly Pilly	10m	5m	75lt	0.25

9.0 Planting

9.3 Bush Tucker Trail Planting Schedule

BOTANICAL NAME	COMMON NAME	HEIGHT x WIDTH (M)	INDIGENOUS SIGNIFICANCE	EDIBLE QUALITY	WILDLIFE ATTRACTION	NOTES
<i>Acrotriche serrulata</i>	Honey Pots	0.6 x 1	The nectar was sucked from directly flowers or they were soaked in water to make a sweet drink.	Flower nectar.	Applicable subject to monitoring	CwC
<i>Alpinia caerulea</i>	Native Ginger	3 x 1	The plant has fragrant white flowers, followed by blue berries that have a fresh, juicy, lemon-ginger flavour, and can be eaten straight from the plan, discarding the seed. The seeds can be dried and ground and used as a spice. At the base of the plant are the tips of the underground stem, appearing between November and April. The shoots have a gingery flavour and are great in stir fries. The roots can also be used in cooking. The leaves can be used to wrap food for cooking.	Berries, underground stem, leaves.	Applicable subject to monitoring	CwC
<i>Apium prostratum</i>	Sea Celery	0.4 x 0.3	This plant adds salty notes to any dish, carrying hints of 'ocean' in its unique flavour. Use it as a garnish, finely chopped or in sprigs, to flavour soups, salads, and chicken and seafood dishes. Stems may be enjoyed fresh, or blanched to temper the strong flavours.	Leaves and stems.	Applicable	CwC
<i>Arthropodium fimbriatus</i>	Chocolate Lily	0.5 x 0.3	The Chocolate Lily's edible tubers usually grow to around 3.5cm in length, around 15cm below the surface. Raw tubers are slightly sweet and best eaten when young, as they become bitter over time. Like other varieties of tuber vegetables, they're are delicious just lightly roasted with a bit of salt of butter. The fragrant flowers are also edible, and may be added to salads or used as decorative toppings for cakes, biscuits and tarts.	Tubers	Applicable	CwC
<i>Arthropodium milleflorum</i>	Pale Vanilla-Lily	1.3 x 0.3	The non-starchy crisp tubers were eaten either raw or cooked.	Tubers	Recommended	CwC
<i>Arthropodium minus</i>	Small Vanilla-Lily	0.3 x 0.1	Edible root (cooked) Rather watery with a slightly sweet or bitter flavour. Plants produce about 4-5 tubers	Tubers	Applicable	CwC
<i>Astroloma humifusum</i>	Cranberry Heath	0.5 x 1.5	The edible berries can be used to make jams and preserves with a sweet flavour.	Berries	Applicable subject to monitoring	CwC
<i>Atriplex nummularia</i>	Old Man Saltbush	3 x 5	Saltbush is a fast-growing shrub commonly used today as a livestock grazing plant. However, both the seeds and leaves are viable bush tucker either in flour or as a dried herb on meats. The leaves are salty in flavour and rich in protein, antioxidants and minerals.	Leaves	Applicable	CwC
<i>Backhousia myrtifolia</i>	Cinnamon Myrtle	5 x 2	Leaves best harvested when young and tender (light green). Used in curries, stews and rice dishes (anywhere that cinnamon is usually used). The leaves make a calming medicinal tea, good for heartburn, colic and digestion. Leaves should be rubbed or crushed.	Leaves	Applicable subject to monitoring	CwC
<i>Burchardia umbellata</i>	Milkmaids	0.65 x 0.2	The potato-like tubers and roots were eaten either raw or cooked, having a textured flesh with a starchy flavour. Plants can be propagated from seeds	Tubers	Applicable subject to monitoring	CwC
<i>Correa alba</i>	White Correa	1.5 x 1.5	Cape Barren Tea, has been enjoyed by indigenous and non-indigenous Australians for tens of thousands of years. The sealers in the Bass Straits used it when their supplies of English tea ran out. Its taste has been compared to jasmine tea. White Correa is also a habitat plant of the Eastern Spinebill bird.	Leaves	Applicable subject to monitoring	CwC
<i>Darwinia fascicularis</i>	Sydney Darwinia	1.5 x 1	Edible leaves, bubblegum flavour	Leaves	Applicable subject to monitoring	CwC
<i>Dianella revoluta</i>	Blue Flax-Lily	0.9 x 0.5	Dianella has sweet purple berries, Aboriginal people consumed these during the summer months. The strappy leaves were also suitable for weaving for the production of nets, bags and other materials. The plant was also used as a snake whistle. It could be blown into the hollow ends to create vibrations and sound to lure snakes out of hiding which then were hunted for food.	Berries	Applicable subject to monitoring	CwC
<i>Dichondra repens</i>	Kidney Carpet	Groundcover		Leaves	Recommended	CwC
<i>Disphyma crassifolium 'karkalla'</i>	Rounded Noon Flower	0.3 x 2	The fruit of the Karkalla grows to about the size of a grape, and turns a deep red when ripe. To enjoy them fresh, just hold one end and suck out the sweet pulp, or eat it whole — salty skin and all. Cooked, they may be used in jams, jellies and cakes, or paired with seafood in savoury dishes. The leaves can be eaten raw or cooked like a vegetables, as well as used like aloe vera to remedy stings, burns and skin irritations. Karkalla extracts have been shown to possess significant antioxidant, antiplatelet and anti-inflammatory activity.	Leaves	Applicable subject to monitoring	CwC
<i>Lomandra longifolia</i>	Mat Rush	1 x 1.2	The leaves were woven into bags, baskets and mats while the leaf base, containing starch and water, was chewed to avoid dehydration. Edible flowers could be soaked to extract the nectar and are said to have a taste like green fresh peas. The seeds would be ground for use in damper.		Applicable	CwC

Note: Planting species to be updated with the consultation of a CwC representative / local knowledge keeper.



10.0 Materials

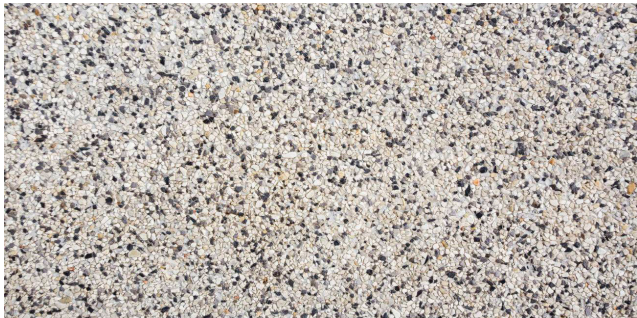
A simple palette of materials have been selected to compose a welcoming public open space. Recycled materials from the local area are carefully considered and re-utilised. Permeable surface is promoted to respond to the climate positive design.

Existing on-site materials and recycled resources will be carefully considered and maximised in use. Additional options will be further explored in the Detail Development stage.

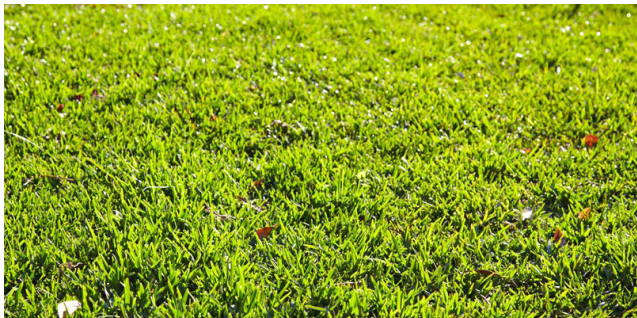
Paving / Ground Plane / Seating Walls



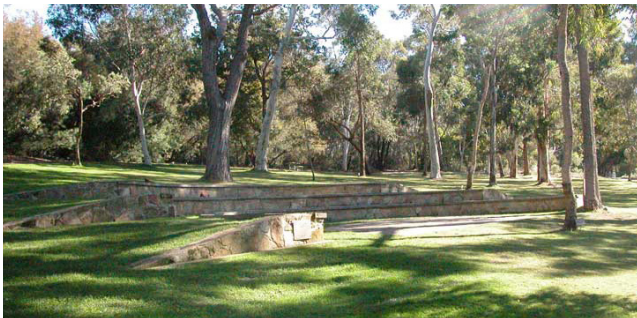
Exposed Aggregate Concrete dark (Paving Type 1)



Exposed Aggregate Concrete light (Paving Type 1)



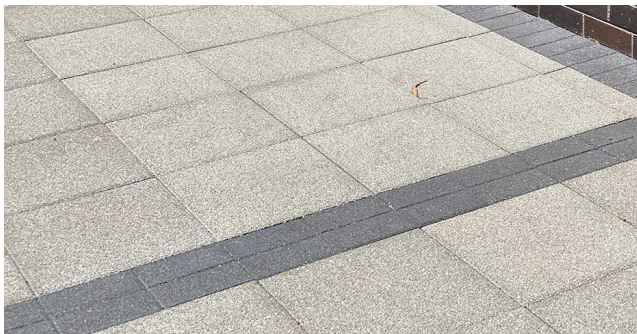
Turf Lawn



Seating Wall for Small Amphitheatre (500mm H 500mm W)



Recycled Crushed Materials for Paving (Paving Type 4)



HydroSTON Permeable Paving (Paving Type 3)



Recycled Timber Logs for Nature Based Play Area



Recycled Stone Logs for Seating Opportunities



Concrete Seating Wall / Seating Bollard with Timber Slat 450mm H * 400mm W



First Nations art work (from local community) where possible for CwC gathering space and educational trail interactions

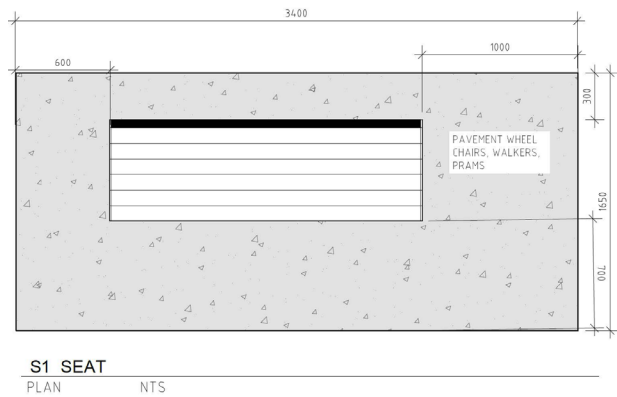


Pergola

10.0 Materials

West Dapto Open Space Technical Manual

Seating Options



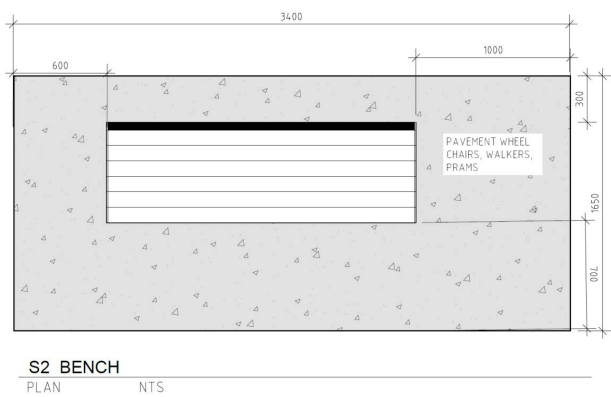
S1 - Seat

SPECIFICATION:

- Model: Gossi Park 'Parkway Seat' © or approved equal with armrests with skate guards.
- Frame: Die Cast legs: Powder Coated in standard Dulux colour range (Citi Pearl)
- Batten: Clear anodised aluminium planks, cast aluminium frame.
- Leg type: flange leg surface mounted
- Size: 1800mm long

INSTALLATION:

- Concrete base slab. 3.4m x 1.65m



S2 - Bench

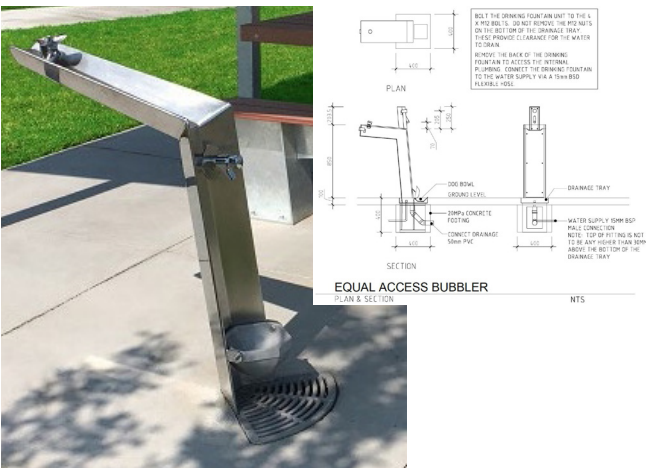
SPECIFICATION:

- Model: Gossi Park 'Boulevard Bench' © or approved equal fitted with skate guards.
- Frame: Die Cast legs, Powder Coated in standard Dulux colour range (Citi Pearl).
- Batten: Clear anodised aluminium planks, cast aluminium frame, cast aluminium frame.
- Leg type: flange leg surface mounted.
- Size: 1800mm length.

INSTALLATION:

- Concrete base slab. 3.4m x 1.65m

Bubbler



BU3 - Equal Access Bubbler

SPECIFICATION:

- 'Aquafil drinking fountain, bottle refill station with dog drinking bowl' by Civiq © or approved equal. Conforms to the Australian disabled access standard.
- Materials: marine grade 316 stainless steel
- Features: bottle filling tap and dog bowl.

INSTALLATION:

- In area of high activity in association with shelter and nodes of park furniture.

BR - Bike Rack

SPECIFICATION:

- Single Hoop Bike Rail AS Urban © or approved equal.
- Material: 50mm dia polished 316 stainless steel
- Fixing: 316 Stainless steel M8 chemical Anchor. Surface mounted spaced at 1200mm centres in accordance with AS2890.3 Part 3 Bicycle Parking Facilities unless otherwise directed by WCC.

INSTALLATION:

- Surface mount on concrete base slab.
- Three grouped together.

B4 - Sandstone Log

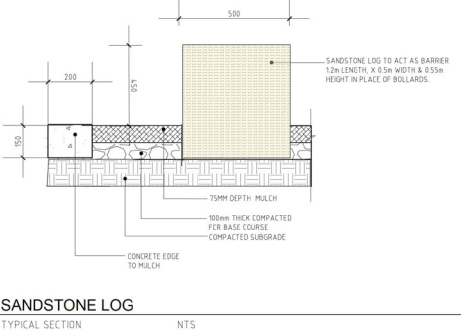
SPECIFICATION:

- Quarry sawn sandstone 'log' shapes.
- Dimensions: approximately 550mm high and 1200mm long
- Material: sandstone 'logs' by Bundanoon Sandstone © or approved equal.
- Finish: 2 sides diamond sawn, 4 sides quarry sawn, grey in colour. 500mm x 550mm x 1200mm

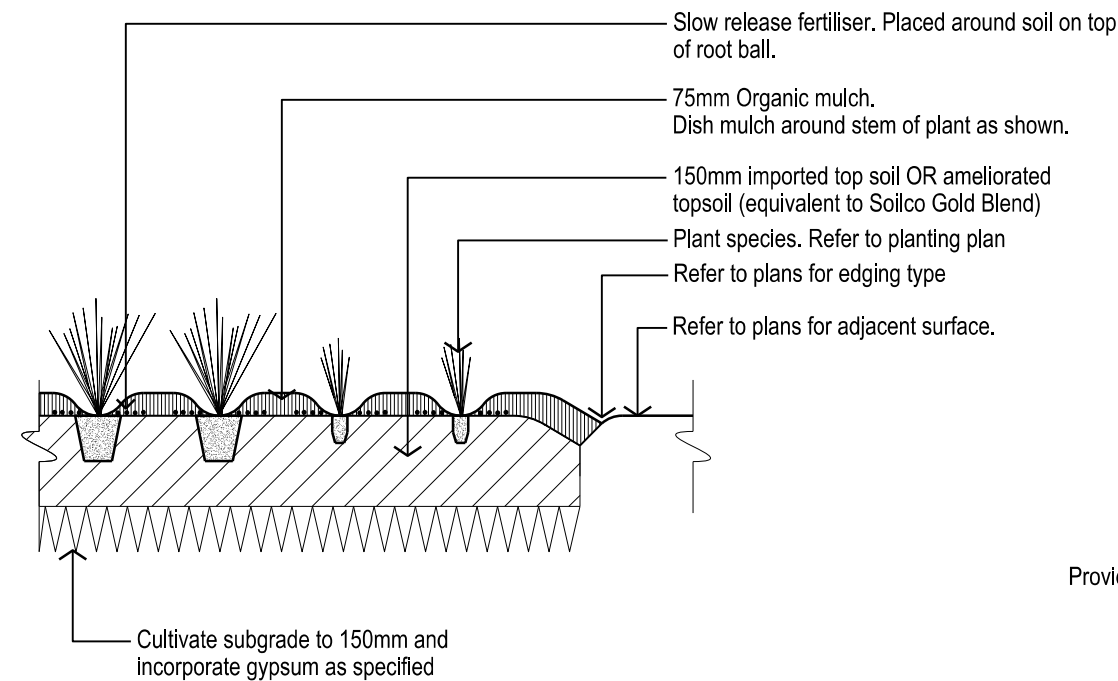
INSTALLATION:

- Surface mount on concrete base slab.
- Three grouped together.

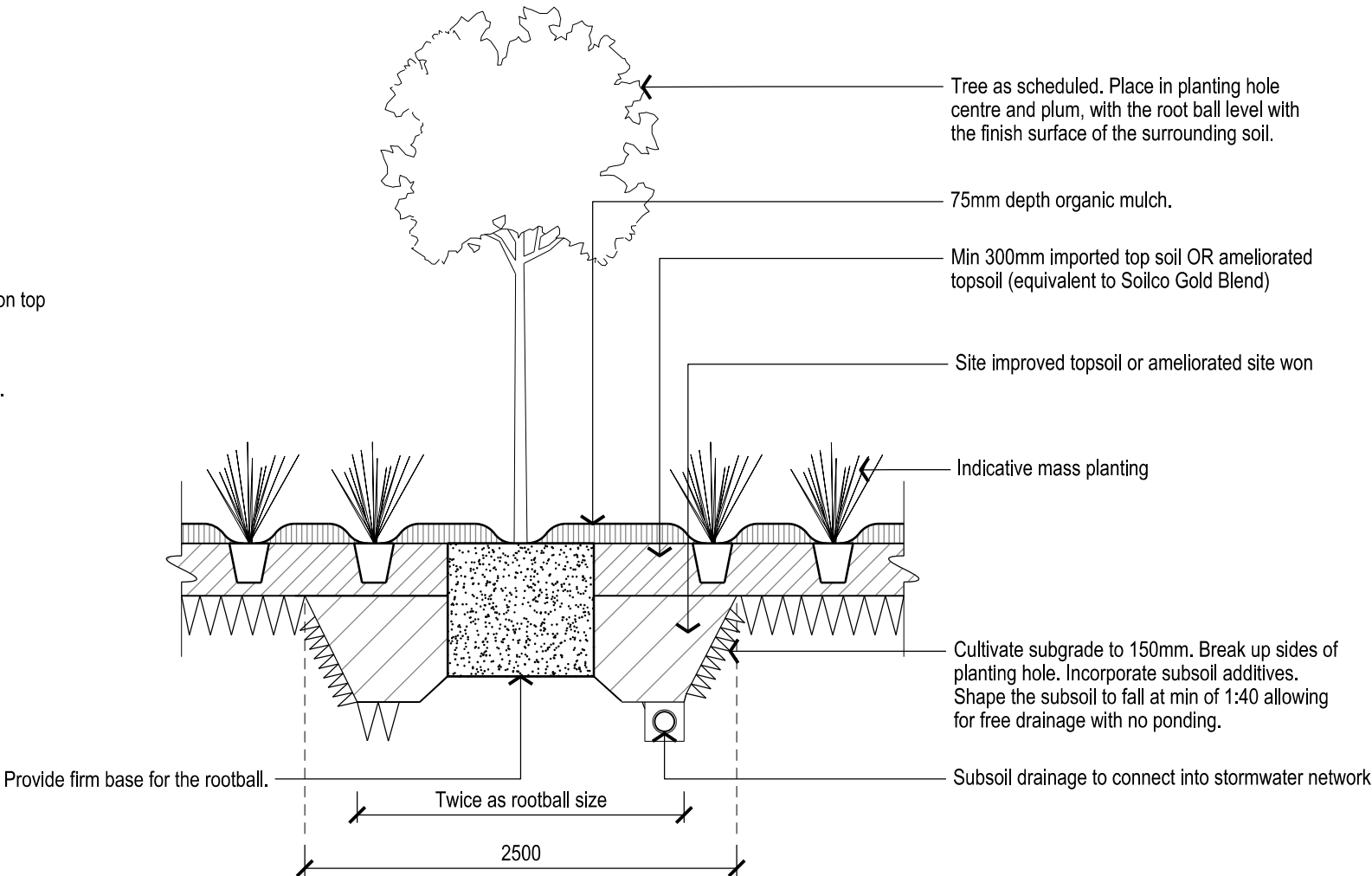
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11.0 Typical Details



MASS PLANTING TYPE 1 TYPICAL DETAIL
SCALE - 1:25 @ A3



TREE PLANTING IN MASS PLANTING TYPICAL DETAIL
SCALE - 1:25 @ A3

12.0 Indicative Landscape Maintenance

The Following is a list of landscape maintenance activities proposed for the landscape areas within the development. Maintenance activities are based on the NATSPEC landscape specification.

Maintenance - Planting establishment and maintenance period is 3 years.

1.0 GENERAL

Summary of maintenance responsibilities:

- Watering of lawn, garden bed areas, pots.
- Weeding of lawn, garden bed areas, and pavement.
- Supply and spreading of fertiliser to lawn, garden bed areas and pots.
- Supply and installation of mulch to existing garden bed areas and pots.
- Pruning, trimming and tree surgery.
- Pest and disease control of lawn, shrubs and trees.
- Mowing and edge trimming to all lawn areas including collection and removal of clippings.
- Replacement of dead or failed plants.
- Maintenance of irrigation systems.
- Removal of rubbish and debris in garden areas.
- Keeping of a log book.
- Monthly reports.
- Maintenance procedures: To accepted horticultural and arboricultural practice.

2.0 WEEDING

Weeds: Unwanted broadleaf plants and grasses considered invasive to the locality.

Program:

- Lawns: Quarterly and as determined by the relationship of the general lawn condition and weed growth.
- Trees and Shrubs: As required for planted, paved and mulched areas to be weed free when observed at bi-weekly intervals.

Method:

- Clear and keep clear vigorous ground covers 200 mm from the base of any shrub or tree:
- Small Areas: By hand.
- Large Areas: Proprietary herbicides.
- Herbicide Application: Avoid windy days or if rain is likely to follow within 12 hours.

3.0 PEST AND DISEASE CONTROL

The landscape contractor is responsible for the control of any pest or disease which may affect the lawn and garden bed areas. Actions:

- Identify the problem.
- Execute the correct treatment until the problem has been eliminated.
- Apply hazardous material out of normal working hours.
- Protect staff and public.

4.0 LAWN

Mowing and Trimming:

- Height: Consistent with the growth habit of the grass variety and maintained at 25 mm to 40 mm throughout the year.
- Program: Weekly during the mowing season, November to March, and at bi-weekly intervals during April to October. Do not mow under wet conditions.
- Raking: Once every month before mowing, during the mowing season, with a flexible rake. On alternate mowings, adopt a north-south and east-west pattern.
- Edges: At the same time as mowing, trim lawn edges to plant beds, pathways, base of trees and other obstacles. Ensure trees and shrubs are not damaged.

Fertilising:

- Apply lawn fertiliser as required to maintain healthy grass cover.

5.0 TREES AND SHRUBS

Pruning and Trimming:

- General: Prune to reflect the natural growth flowering and regrowth habit of the individual species.
- Shrubs: Prune after flowering.
- Program: Spring and Summer and on a spot basis as required.

Hedge Trimming:

- Schedule trimming at times which will maintain the character and design of hedges. Allow up to three times per season.

Tip Pruning:

- Do not remove buds before the flowering season in those plants that have terminal flowers.
- Purpose: To encourage development of new shoots during the active growing season.
- Method: The removal of the top 25 mm or growing tip of each branch.

Radical Pruning:

- Purpose: To maintain a hedge or formal shape or when a particular problem, growth habit, damage, or disease requires branch removal.
- Clear and keep clear vigorous groundcovers 200mm from the base of any shrub or tree.
- Use only tools fit for purpose.

Trees, Prune to:

- Eliminate diseased or damaged growth, avoid inter-branch contact and thin out crowns in a natural manner.
- Maintain sight lines to signs and lights.
- Maintain visibility for personal security.

12.0 Indicative Landscape Maintenance

Tree Branch Removal:

- To AS 4373.
- Give notice and engage a suitably qualified 'arborist'.

Plant Replacements

- General: Replace all evergreen plants that have died or lost 50% of their normal foliage cover.

Provide replacement plants as follows:

- Of the same species and variety and of the closest commercially available size.
- Of uniformly high quality stock equal to the best commercially available.
- Representative of optimum growth for the species as restricted by the container size.
- With a balanced root system in relation to the size of the plant and conducive to successful transpiration.
- Inspect the root conditions of plants by knocking plants from their containers.
- Without signs of having been stressed at any stage during their development due to inadequate watering, excessive shade/sunlight, suffered physical damage or have restricted habit due to growth in nursery rows.
- Healthy, well grown, hardened off specimens of good shape and free from pests and disease.
- Well rooted and without any indication of having been restricted (pot bound) or damaged at any time.
- Been grown in their final containers for not less than twelve (12) weeks.

Watering:

- Planting: Water as required to maintain growth rates free of stress.
- Turfing: Water to maintain moisture to this depth.

6.0 MULCHING

- Clean up: Remove all mulching materials off lawn or paved areas and maintain a clean and tidy appearance when viewed on a weekly basis.
- Depth: Maintain a minimum depth of:
 - 75 mm for organic mulch.
 - 50 mm for gravel mulch.
- Top up: Areas of excessive wear.
- Appearance: Maintain to keep clean and tidy with no soil disturbance evident on the surface of the mulch.

7.0 INCIDENTAL WORKS

Supplementary Works:

General: Execute the following:

- Removal of rubbish arising from maintenance work.
- Removal of leaf litter fortnightly during leaf fall.
- Wash paving on completion of herbicide application.

Paving:

Slip resistance tests:

- Test to AS 4663 annually.
- Notify deviation from the design value.
- Rectify the surface and re-test as required to comply with the design value.

Furniture, Signage, Barriers and Play Equipment:

- Scope: All fixed and movable features noted in the record drawings.
- Furniture and pots:
- Move and relocate as required for maintenance of the area.
- Repair or replace items damaged by the maintenance contract staff.

- Signage: Maintain sight line visibility.
- Play Equipment: Inspect on a regular basis and inform building manager of any faults.

Drains:

- General: Inspect and clean all drainage structures and pit covers and ensure that they are in proper working order.
- Frequency: As required so that all overflow drains are cleared when observed at fortnightly intervals.

8.0 IRRIGATION

Irrigation system program: To suit the following:

- The precipitation requirements of the individual zones/stations with regard to types of plants.
- The infiltration rate of the soil/medium and associated physical factors seasons, evaporation, exposure, topography, local authority restrictions.
- An allowance for adjustment or shut down during and after periods prolonged heavy rains.
- To co-ordinate water supply and to confirm watering regime against federal and state government legislation and restrictions at the time.

Equipment maintenance:

- Check all components for proper operation.
- Repair or replace damaged component with equivalent parts.
- Flush any dirt or foreign matter from the system and clear all blockages.

Operation:

- Ensure by adjustment or replacement of components, that the overall operation of the system is efficient and operational.

Supervision:

- Prevent excessive use of water.



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