

ARCADIA

UNSW G25 Landscape SSDA Report

Prepared for UNSW
February 2025

We respectfully acknowledge the Traditional Custodians of the lands where we live and work. We acknowledge their unique ability to care for Country and deep spiritual connection to it. We honour Elders past, present and emerging whose knowledge and wisdom has and will ensure the continuation of cultures and traditional practices.

Rev A	Issued Nov 2024	Authorised by QL
Rev B	Issued Feb 2025	Authorised by QL

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CONSULTANT DECLARATION

PROJECT DETAILS

PROJECT NAME
Application number: SSD-74670005
Address of subject land: 8 High Street, Kensington, NSW, 2033
Lot / DP: Lot 5 DP 1264171

APPLICANT DETAILS
Applicant name: University of NSW
Applicant address: 8 High Street, Kensington, NSW 2033

REPORT DETAILS
Name of report this declaration relates: UNSW G25 Landscape SSDA Report
Report reference number: 24-1045
Report date: 21/02/2025
Company name: Arcadia Landscape Architecture Pty Ltd
Author name: Alex Longley
Author qualifications: Registered Landscape Architect
Author address: Jones Bay Wharf, Lower Deck, Suite 70 26-30 Pirrama Road, Pyrmont NSW 2009

DECLARATION BY CONSULTANT
Name: Arcadia Landscape Architecture
Registration no: #001697
Organisation registered with: AILA

Declaration

The undersigned declares that the UNSW G25 Landscape SSDA Report:

- has been prepared in accordance with the following policy, guidelines, or legislative requirements;
- contains all available information relevant to the environmental assessment of the development, activity or infrastructure to which the Landscape SSDA report relates;
- does not contain information that is false or misleading;
- identifies and addresses the relevant Planning Secretary’s environmental assessment requirements (SEARs) for the project;
- identifies and addresses the relevant statutory requirements for the project, including any relevant matters for consideration in environmental planning instruments to which the [consultant report] relates
- contains a consolidated summary of the proposed or necessary mitigation measures

Signature

Alex Longley



Date

21/02/2025

Sub Sections	Documentation	Page Reference	Response Summary
7.2	Demonstrate how the development: • ensures that public space is welcoming, attractive and accessible for all. • maximises permeability and connectivity. • maximises the amenity of public spaces in line with their intended use, such as through adequate facilities, solar access, shade and wind protection. • maximises street activation. • minimises potential vehicle, bicycle and pedestrian conflicts.	Sections - Pg. 38 - 40 Design Response Analysis - Pg. 42, 45 - 49	The design separates pedestrian and vehicle movement using green buffers and different paving materials to clearly define each space. It also prioritizes pedestrian connections from both the Library Walk axis and the Chancellery Walk axis. A variety of seating and study amenities have been added to the new G25 northern façade to activate the street and enhance both indoor and outdoor connections. Line markings are also introduced where necessary to highlight pedestrian crossings.
8.1	Assess the number, location, condition and significance of trees to be removed and retained and note any existing canopy coverage to be retained on-site.	Tree Removal & Replacement Plan - Pg. 42	The scheme takes into account the retention of the tree at the southwest corner of the site. We have worked closely with the project’s arborist to consult on the potential removal of the tree and have sought advice on selecting suitable replacement species for the new trees.
8.2	Provide a detailed site-wide landscape plan, that: • details the proposed site planting, including location, number and species of plantings, heights of trees at maturity and proposed canopy coverage (as a percentage of the site area). • provides evidence that opportunities to retain significant trees have been explored and/or informs the plan. • demonstrates how the proposed development would: - contribute to long term landscape setting in respect of the site and streetscape. - mitigate the urban heat island effect and ensure appropriate comfort levels on-site - contribute to the objective of increased urban tree canopy cover. - maximise opportunities for green infrastructure, consistent with Greener Places and having regard to any bush fire risk.	Site Interfaces - Trees on Edge - Pg. 21 Site Character - Pg. 27-28 Design Moves - Pg. 31-33 Landscape Masterplan - Pg. 35 Design Response Analysis - Pg. 42-49 Planting Palette - Pg. 51 - 54 Urban Heat Island - 41 Detail species location, number, and mature height are included in our softworks package.	The design prioritizes creating a well-connected canopy cover on both sides of Library Walk to reduce the heat island effect. Trees have been strategically placed based on wind consultant advice to improve comfort by mitigating down drafts. We have maximized green buffers along both sides of Library Walk, incorporating WSUD treatments along the northern edge to assist with collecting site drainage runoff. The plant species selected are primarily native and drought-tolerant, ensuring both sustainability and resilience.

This Landscape SSDA Report has been prepared by Arcadia on behalf of the University of New South Wales (UNSW) for construction and operation of a teaching and learning facility (the Proposal) to be known as the UNSW G25 Education Building, on land at 8 High Street, Kensington (the Site).

This report has been prepared to provide landscape conceptual intent

This report accompanies a State Significant Development Application (SSDA) that seeks approval for the construction and operation of a teaching and learning facility at the G25 site, within the Upper Campus of UNSW.

Specifically, the SSDA seeks consent for the following:

- Site preparation works including demolition of the existing at-grade car park, tree removal, and excavation works.
- Construction of an eleven (11) storey (plus roof plant) teaching and learning building with approximately 20,200m² of gross floor area. The building will comprise the following:
 - Basement including plant/services, Bike Storage, End of Trip facilities and staff amenities, ancillary service areas such as Mail and Print rooms.
 - Ground level Food and Beverage space and informal education spaces
 - Teaching and Learning spaces and workspaces for UNSW Faculties for other levels
 - (The internal fit-out will be subject to separate approval)
 - Rooftop level including landscaped outdoor terrace, multifunction space, mechanical plant and services
- Associated landscaping, replacement trees and public domain embellishment works in and around the proposed building
- Extension and augmentation of infrastructure and services as required
- New lift core in the adjacent building, H25 Botany Street Carpark and associated access improvements.

The Proposal will seek to deliver improvements including:

- Providing new, purpose built learning and teaching spaces to support the University activities and strategic goals such as the development of the Randwick Health and Education Precinct
- Delivering an enhanced ground plane connection
- Providing flexible and adaptable teaching and learning spaces
- Creating a healthy, green, and welcoming place for students, staff and visitors
- Creating an experience that is an open, permeable, and connected public realm
- Creating pedestrian priority and inclusive shared public space

For a detailed project description refer to the Environmental Impact Statement prepared by Ethos Urban.

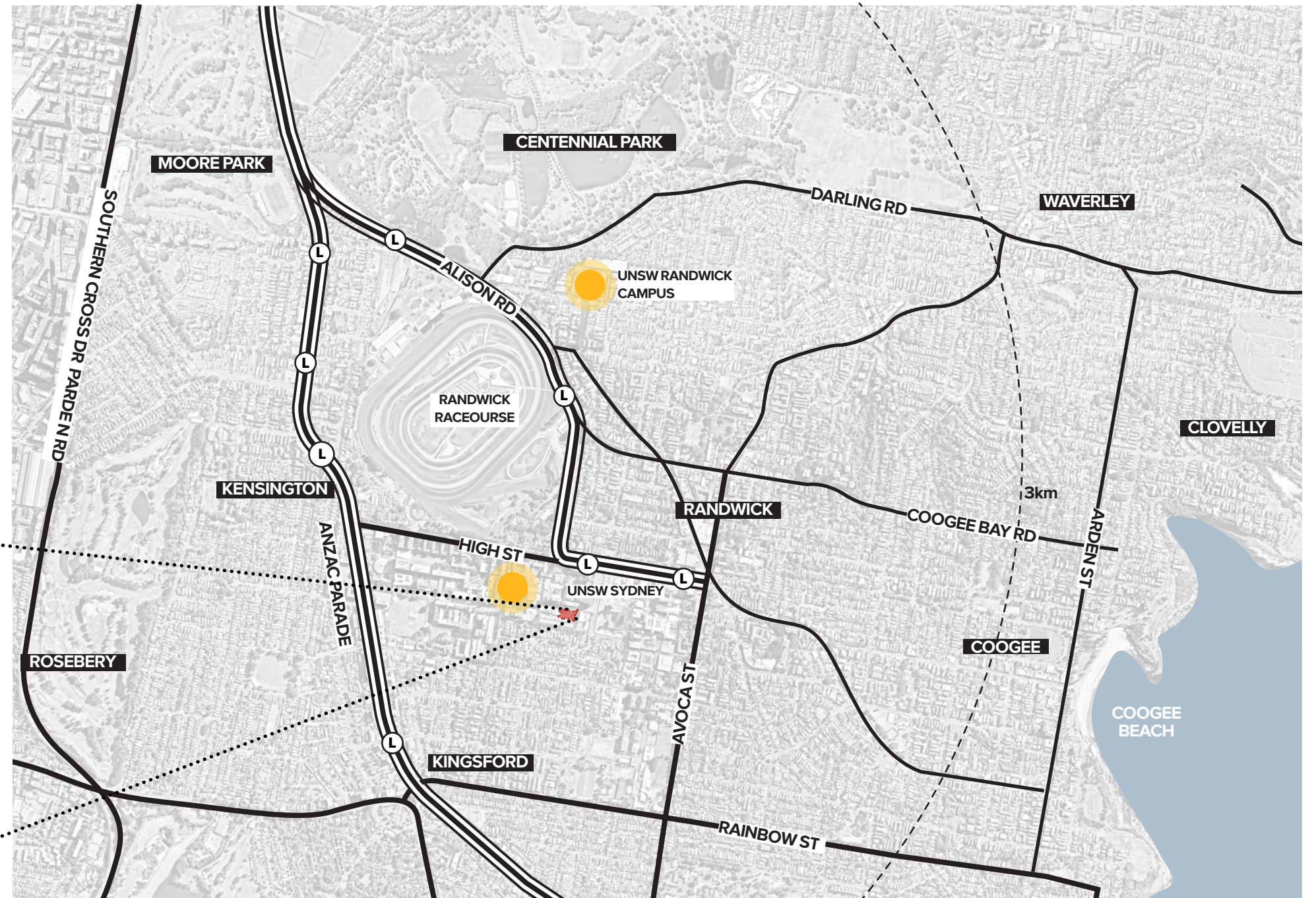


01
SITE
CONTEXT

Site Context

Regional Context

The **UNSW G25** site is located a 12 minute drive from Sydney CBD on Anzac Parade, Kensington. The project aims to develop the character of the area and existing streetscape while developing the landscape on site.



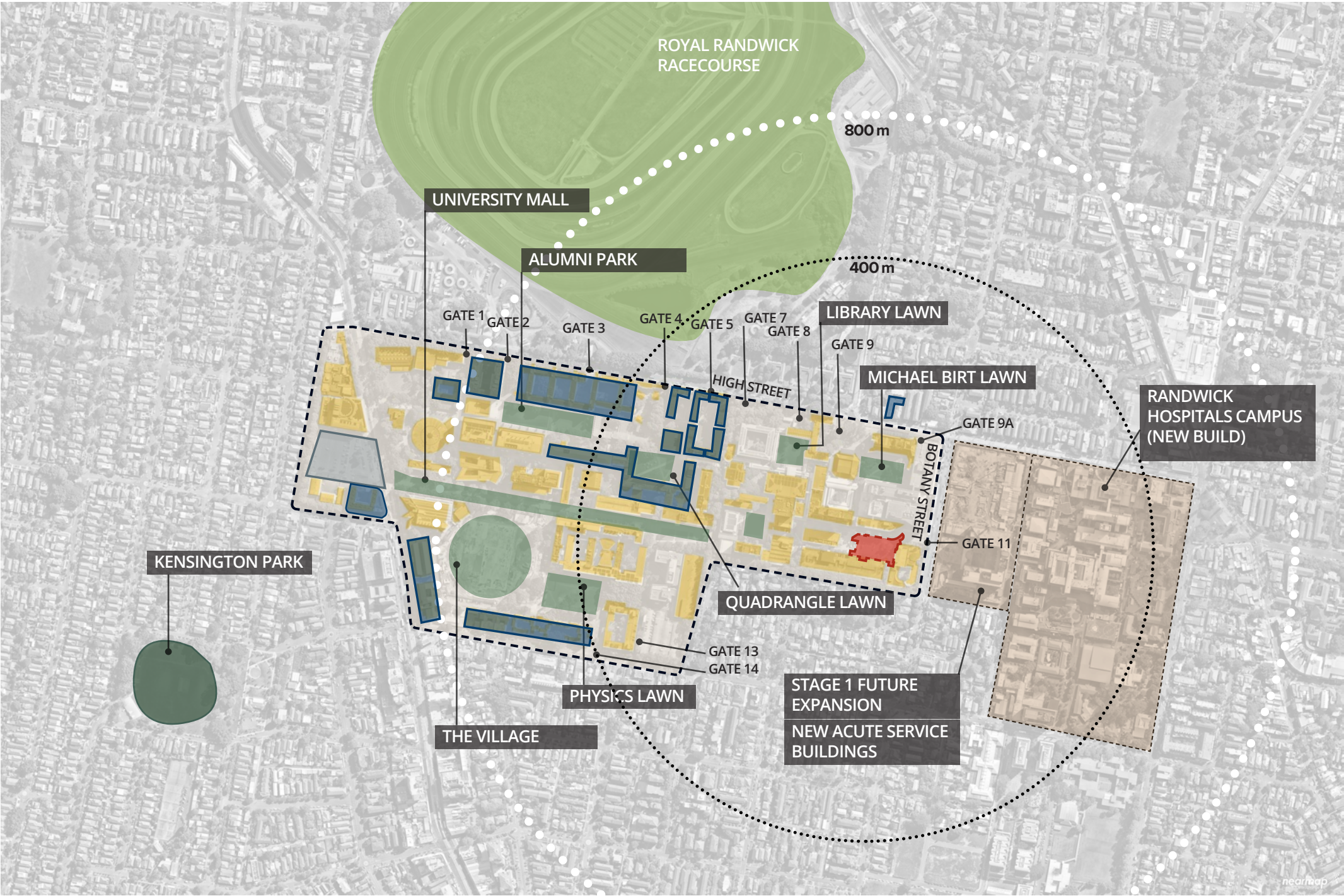
Site Context

Local Context

The site sits within walking distance of an abundance of parks and sports courts, which provide amenity and relief to the dense built fabric. The proposed G25 education building sits within distance to active and passive spaces, and plazas within the university grounds.

KEY

- SITE EXTENTS
- RANDWICK HOSPITALS CAMPUS
- UNSW CAMPUS EXTENTS
- CAR PARK - (FUTURE APPROVED STUDENT ACCOMMODATION)
- PARKLAND
- SPORT COURTS
- UNSW BUILDINGS
- STUDENT ACCOMMODATION
- UNSW GREEN SPACES



Strategic Context

Relevant Documentation

Arcadia has engaged deeply with relevant strategic documentation from both UNSW and Randwick City Council. This will ensure our design responds to all relevant policy and seamlessly blends with the design and public domain brand of the local area.

UNSW Relevant Documents



UNSW 2025 STRATEGY UPDATE, 2024



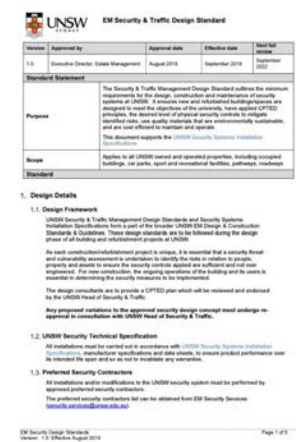
DESIGN PRINCIPLES FOR LEARNING ENVIRONMENTS, 2024



UNSW FUTURE HIGHER EDUCATION WORKSPACES, 2019



EDUCATION AND STUDENT EXPERIENCE SPACE PRINCIPLES, 2024 (DRAFT)



ESTATE MANAGEMENT SECURITY AND TRAFFIC DESIGN STANDARDS, 2019

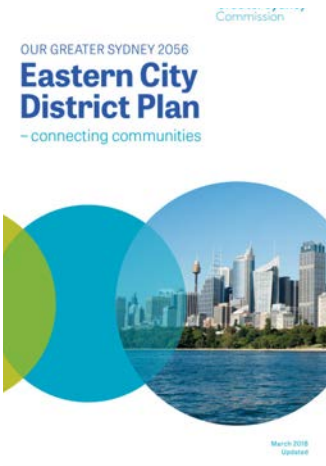


UNSW INDIGENOUS STRATEGY, 2018 - 2025

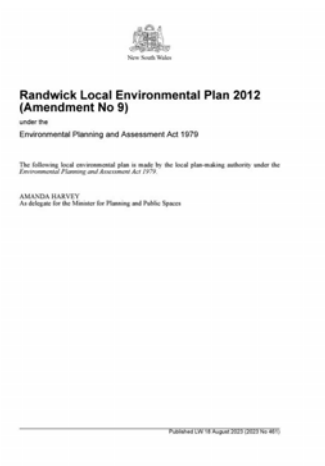


UNSW ENVIRONMENTAL SUSTAINABILITY PLAN, 2019

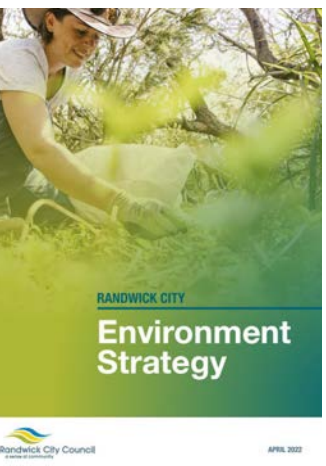
NSW Government and RCC Documents



OUR GREATER SYDNEY 2056 - EASTERN CITY DISTRICT PLAN - 2018



RANDWICK LEP, 2012



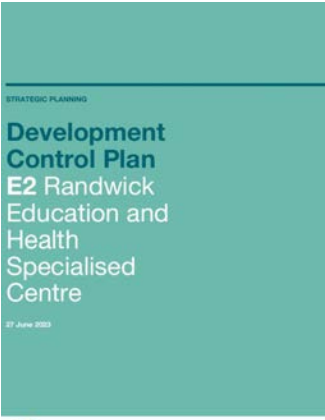
ENVIRONMENT STRATEGY, 2022



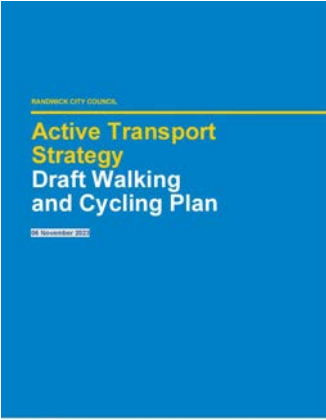
TECHNICAL GUIDELINES FOR URBAN PLANTING - DRAFT



LANDSCAPE AND BIODIVERISTY



DEVELOPMENT CONTROL PLAN - E2, 2023

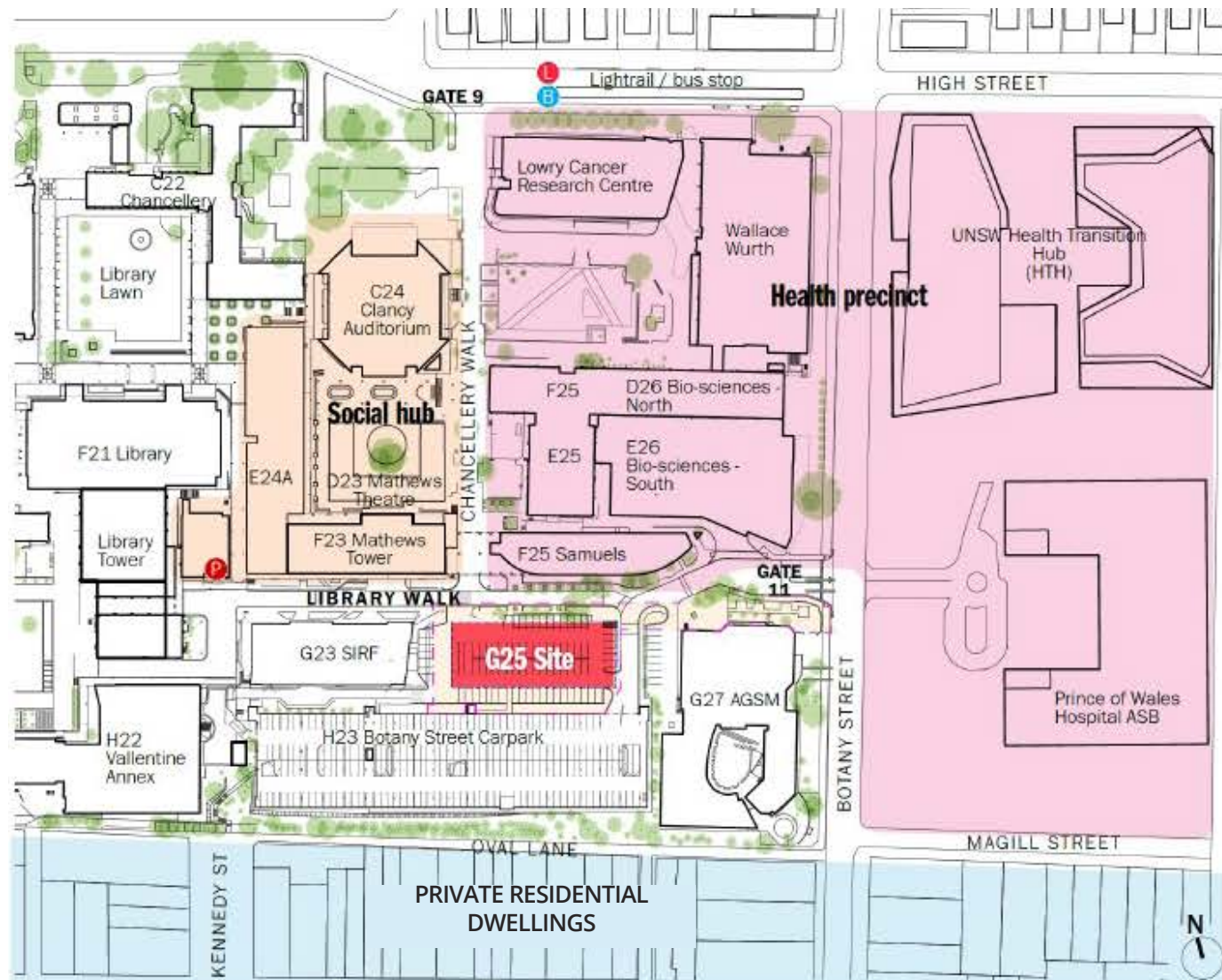


ACTIVE TRANSPORT STRATEGY, WALKING AND CYCLING PLAN, 2023

Site Context

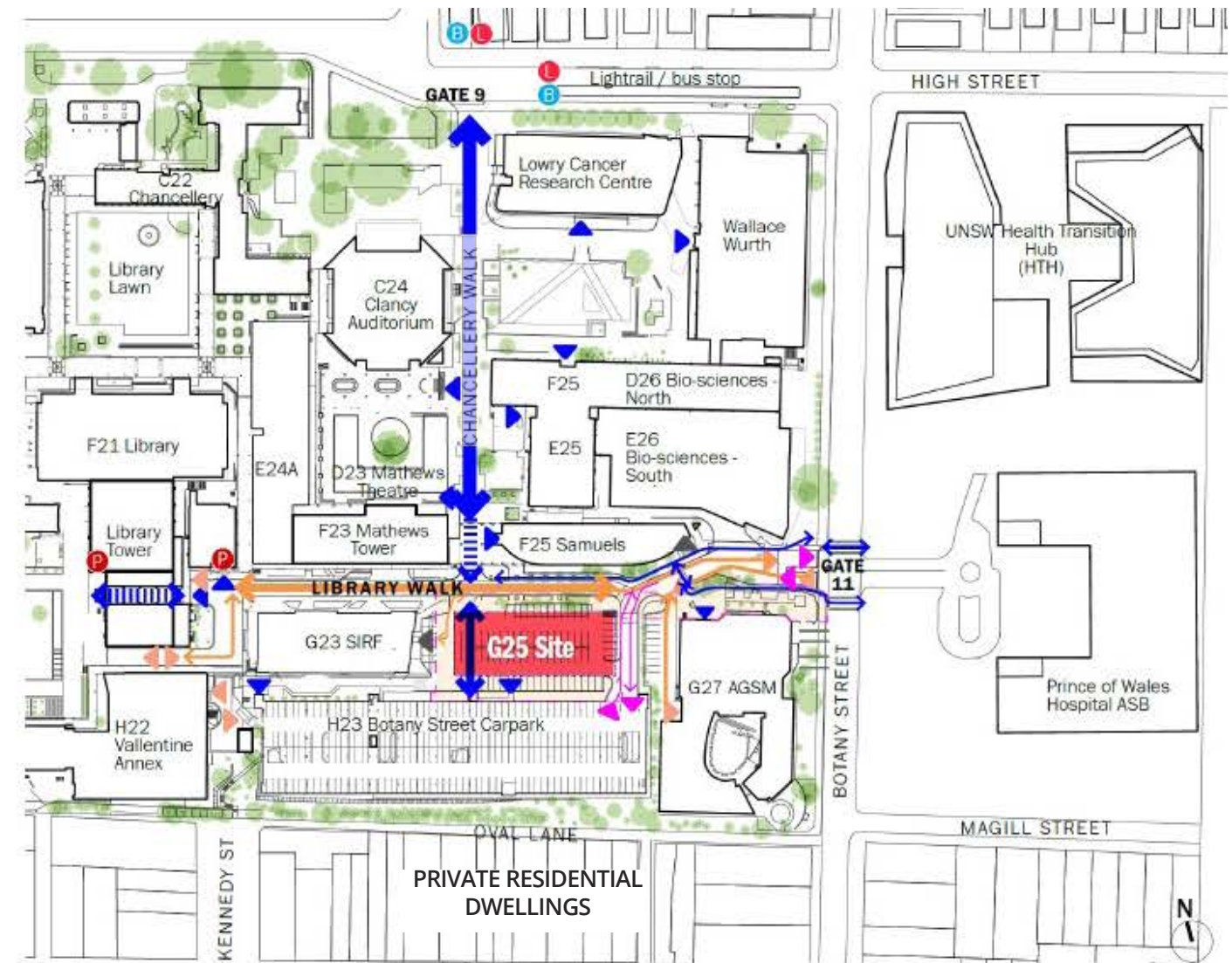
Existing Site and Access

Existing Context



- Legend
- G25 building boundary
 - G25 public domain works boundary
 - Health precinct
 - Social hub
 - Residential precinct
 - Existing post office

Existing Site Access



- Legend
- Building entrance
 - Pedestrian route
 - Pedestrian access route through building
 - Existing post office
 - Lightrail stop
 - Public vehicular access
 - Public vehicular route
 - Service vehicle route
 - Service vehicle route
 - Bus stop

FROM 1.1. UNSW, G25 PROJECT BRIEF 2.5.24 [P.7]

On Bidjigal Country

Ancient Sands and Swamps

The lands that UNSW now stands upon are the ancestral and spiritual homelands of the Bidjigal people of the Dharug (Eora) Nation. Once rolling sand dunes and swamplands, the character of the landscape is vastly different from what it was when Europeans invaded. What we now know as the suburb of Kensington were once rich wetlands filled with life. The songs of birds and frogs permeated the air, rich with the smells of the eucalyptus and paperbark trees, releasing their aromas in the heat of the day. These rich lands nourished the people, plants and animals for eons - the role of water in this place is vital, to connect with Bidjigal Country, the landscape design will work to connect to this. The ancient sandy dunes that lie beneath the surface were formed during the last ice age, approximately 11,000 years ago when the sea levels were much lower - with the coastline extending approximately 25kms further East from the shores of Coogee where it is today. Today, the hidden geological history of Bidjigal Country is found in the sandy soils and frequent floods in the swampy areas - as is seen with the subject site.

Bidjigal Country

Local archaeological evidence, including an 8,500 year old hearth, 1,500 year old stone tools and fish hooks, among others, points to continued Aboriginal occupation of these lands and symbolises a sacred spiritual connection between Bidjigal community today and their ancestors. These places, along with stories and songlines connect the local traditional custodians to Country now and forever. Aboriginal people in Sydney lived in clan groups of about 25-60 people connected to ancestors via patrilineal lineage, with spiritual rights and obligations associated to their clan estate or Country. Each clan group managed their land through a complex system of totem biodiversity associations, rites and rituals that bestowed sacred spiritual obligations to maintain the health of Country. For many years Aboriginal people in Australia have falsely been described as living a “primitive” lifestyle, which neglected to appreciate the complexity of Aboriginal customs , laws, beliefs

and approaches to land management. Aboriginal people lived in complex societies with laws, trade, farming practices and property rights. Tools found in archaeological sites point to local trade, as the materials used to make these tools are not located locally. Early colonists documented Aboriginal architecture in the area, describing both permanent shelters and temporary hut structures. When setting up camps in dunes, the Aboriginal people of the area set up tent structures most likely using bark, cabbage tree fronds and timber. The swamps of the area would have been good hunting grounds, providing fish, eel, tortoise and also materials for weaving. The scrub in the area would have been good habitat for possums, which were used for their meat and fur to make cloaks. Aboriginal people lived this way for eons, managing the land in a sustainable fashion with a complex religious-cultural system associated to the health of Country. (Irish, UNSW, 2018)

“..the lands we now know as Kensington were once rich wetlands filled with life. The songs of birds and frogs permeated the air, rich with the smells of the eucalyptus and paperbark trees, releasing their aromas in the heat of the day. These rich lands nourished the people, plants and animals for eons - the role of water in this place is vital, to connect with Bidjigal Country, the landscape design will work to connect to this..”

Colonisation and Bidjigal Country



Resisting Invasion

The coastal territory of Dharug/Eora nation is what can be considered the catalyst for Australian First Nations displacement. It is understood that the coastal Dharug people have come to be known as the Eora – which is said to be from the Dharug language word yura, meaning “the people of this place”, or “the people”.

Way of life changed drastically for the Bidjigal People upon British invasion. Outposts around Kensington were set up, with military garrisons fighting Aboriginal resistance forces to claim and establish territory under the British Empire.

By the late 1800s, many of the clan groups of coastal Sydney had been decimated by military advancement and outbreaks of small pox.

Many people were displaced during the 1800 – 1900s, and by the early twentieth century, government forces had forcibly relocated Aboriginal people to missions, with many people coming to live on the La Perouse Aboriginal mission.

Civil Rights + Healing

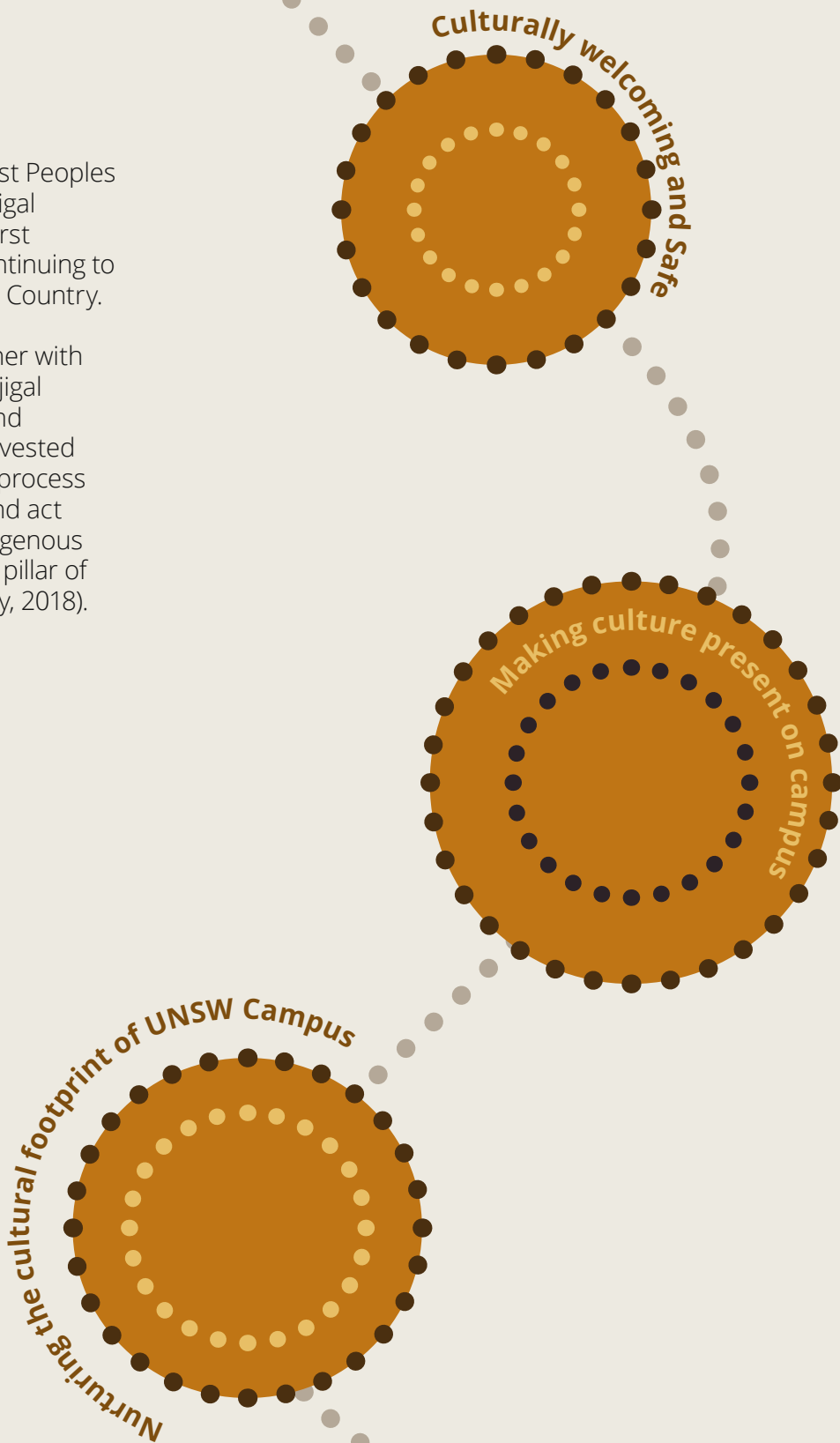
The mid 20th century saw the civil rights era, culminating to the 1967 referendum in Australia, where Aboriginal people were voted to be classed as citizens in the Constitution, rather than flora and fauna. Many civil rights protests and coordination have come together on Bidjigal Country, with Yabun Festival also being originally held on Bidjigallands.

UNSW has played an important role in the advancement of Aboriginal people, including the establishment of the first Aboriginal Legal Service in Redfern, and later the Indigenous Law Centre in Kensington. UNSW continues to play a huge role in Indigenous advancement and thinking, with the Nura Gili student centre operating as a hub of student activity and support. The university offers a range of programs targeted at Indigenous advancement and increased representation that reach across Australia, including pre-programs and winter schools.

While colonisation continues to impact First Peoples across Bidjigall Country and Australia, Bidjigal Country is home to a diverse and active First Nations community, with many people continuing to practice traditional ceremony and rites on Country.

There is opportunity to connect and partner with local Indigenous community, including Bidjigal knowledge holders, Indigenous student and staff representatives. Co-designing with invested Indigenous people will work to enrich the process of design, connect with Bidjigal Country and act upon the targets identified in UNSW’s Indigenous Strategy, namely, the Culture and Country pillar of the document. (UNSW Indigenous Strategy, 2018).

“..There is opportunity to connect and partner with ... invested Indigenous people to work to enrich the process of design, connect with Bidjigal Country and act upon the targets identified in UNSW’s Indigenous Strategy, namely, the Culture and Country pillar of the document; working to make the campus culturally welcoming and safe, increase the presence of Aboriginal culture on campus and nurture the cultural footprint of UNSW’s campus.”



Shifting Systems

Swamps to dunes to coast is how the Bidjigal people would travel. The map describes the wetlands that Sydney currently supports, as well as the wetlands that it once supported in its formation over 40,000 years ago when the coast was further out to sea – a process that would have been observed by the Sydney clans.

This relationship between salt and fresh water was very important as water is the giver of life, and its bodies swell and shrivel with volume and tides, and food abundance and materials. For these reasons there are several flows between Country that influence how people would move around Sydney. This movement of coastal Sydney clan extends from Newcastle all the way down to Wollongong where business and ceremony would take place along song lines meaning there were important locations where these would be conducted.

Centennial Park served as one of these locations and brought people all around but was also part of the local flows. The flowering of certain species such as the Black wattle would trigger a series of law that must be followed, such as when to use certain resources and when to move from swamp to coast.



Co-Designing with Bedegal Country



On First Peoples Collaboration

Building upon UNSW's Indigenous strategy, our approach is to embark on a reconciliatory process of collaborative design, working to support cultural safety, cultural identity and practice, as well as celebrate and nurture the cultural stories that are embedded in Bedegal Country.

Through a co-design process, the design team will work to develop an Indigenous design strategy to guide the development and enrich the design. This could allow us to:

- / Authentically connect to Bedegal Country
- / Give insight into the nature of Country and the ecological systems
- / Facilitate appropriate planting
- / Lend inspiration for sensorial interpretations
- / Facilitate cultural exchange
- / Provide cultural safety
- / Offer cultural education opportunities
- / Supports biophilic connections
- / Offer inspiration for bio-mimicry and regenerative design
- / Offer caring for Country opportunities
- / Respects Indigenous community as custodians and decision makers for Country
- / Amplifies the voice of Country

Co-Design Process

We envision that the codesign process will involve engaging with Yerrabingin and their Connection with Country report, and community engagement process (two sessions), including Bedegal knowledge holders, Indigenous staff and student representatives and other Indigenous organisations.

Through a series of workshops, we envision that the co-design group would identify narratives embedded in Country, express their aspirations for the development, and provide design direction to inform an Indigenous design strategy to guide the development.

The group would then be involved in the design development and project progression throughout the lifecycle of the project, from its concept inception through to the ongoing care of the project.

We envision that the strategy may look to tap into the spirit of Bedegal Country, to foster an ongoing connection between Country and those that inhabit the spaces; in turn informing a set of design principles to function as a framework for design moves.



Designing with Country

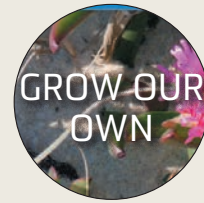
Building upon the existing policy framework of the NSWGA Draft Connection to Country document and the UNSW Indigenous Strategy; coupled with a "starting with Country approach"; the design will be informed by a healing Country ethos, informed by the water story that is so closely connected with place.

The identity of Bedegal Country will be celebrated through the design of the landscape and the built form via sensory expression and interpretation, signage, art, spatial arrangement and programming.

The design moves could be brought to life by ongoing partnerships with Indigenous community members, students and staff.



Designing with Country

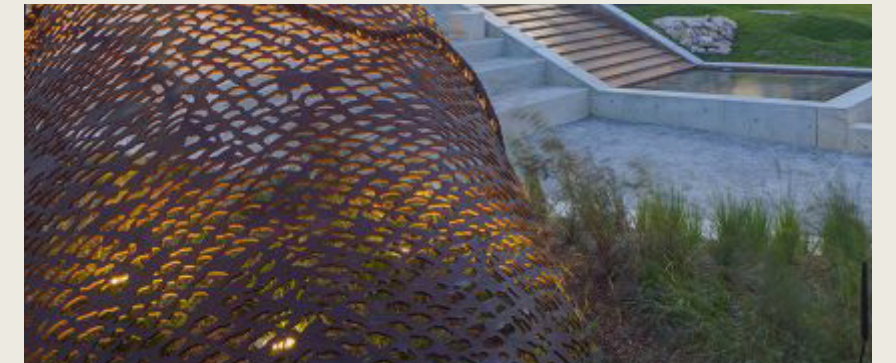


CWC PROCESS

/ Working with Yerrabingin on below principle that is established as part of CWC process.

1. CONNECTED TO BIDJIGAL KIN

- / Spaces of learning where students can connect to Country in an intimate scale with planting,
- / Planting to provide insects and birds with a place to call home or to rest on their journey
- / Expansive views on roof terrace to Mountains and Botany Bay



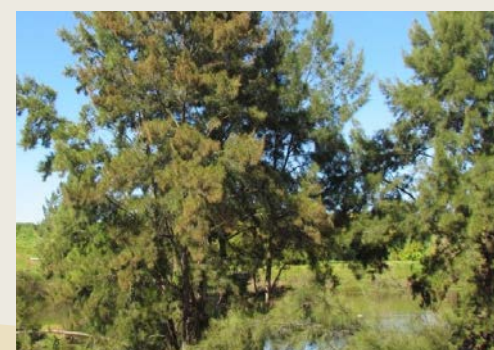
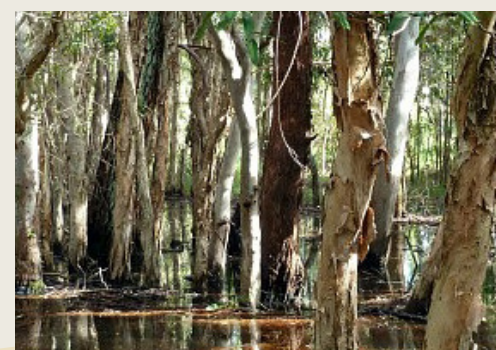
2. THE TEXTURE OF TIME

- / Planting palette that reflects seasonal qualities, such as the way blooming will trigger ecological events
- / Plant selection that blooms with at certain times of the student calendar.
- / Natural material that will evolve through time and use of colour and textural palate inspire by Country



3. WELCOME, SAFE, AND RESPECTED

- / Space that is inviting and offer dwelling
- / Good connection to the entrance of building
- / Social spaces, and allow for good connection between indoor and outdoor spaces



Site Context

History and Heritage

- **1814**
Kensington
A water- powered mill on the bank of Lachlan Stream (later developed as Todman Avenue, produced paper, cloth and later flour from 1814 - 1832.
- **1833**
Randwick Racecourse
Randwick Racecourse, Australia's longest standing racing venue, held its first horse race.
- **1920**
Masonic Temple
Masonic Hall was built and became a catapult for the community's social events.

- **1949**
University of NSW
The inner city campus site of Sydney Technical College, now called UNSW expanded to the Kensington precinct.
- **2020**
The South East Light Rail became a completed connection to Sydney's light rail network. The rail provides high frequency and capacity to Moore Park, Royal Randwick racecourse and UNSW Kensington through Anzac Parade. This rail will form part of a significant urban structure creating town centres between Kensington to Kingsford.
- **2022**
Precinct Development
The newly developed Randwick Campus opens within the bounds of the UNSW Health Precinct.

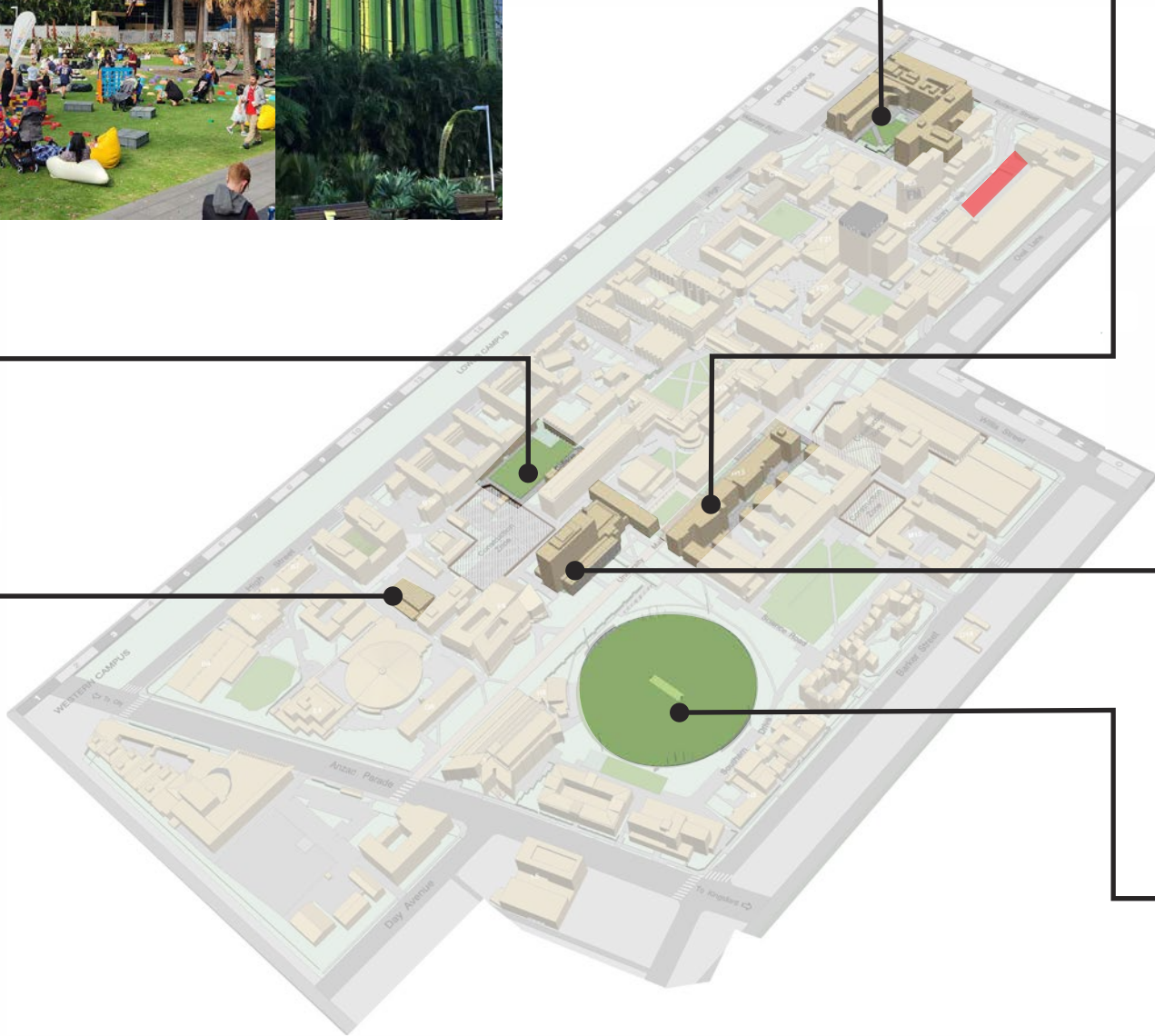
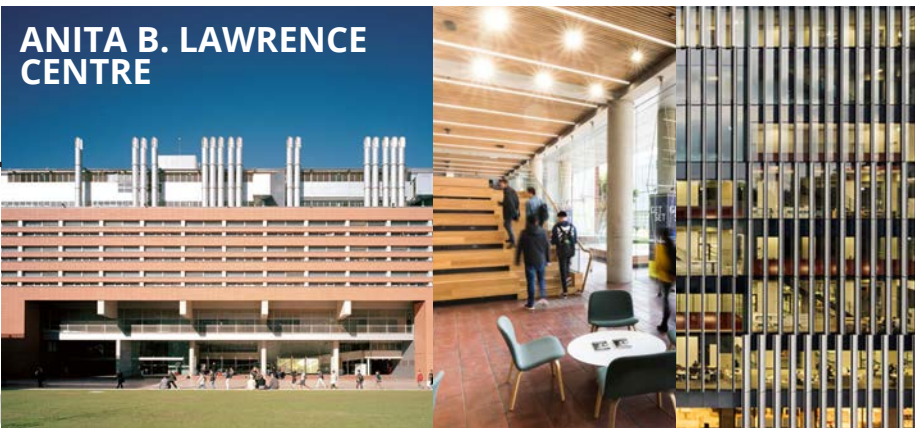
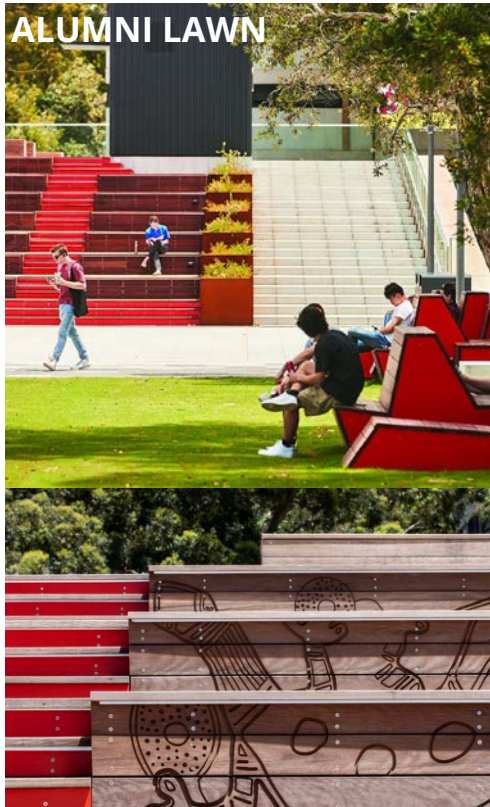




02 SITE ANALYSIS

Site Character

Campus Look and Feel - Newly Built Areas

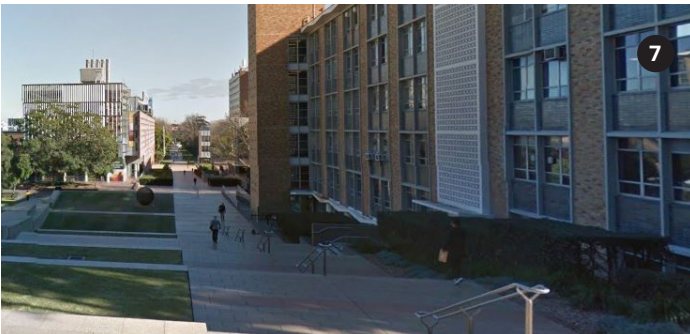
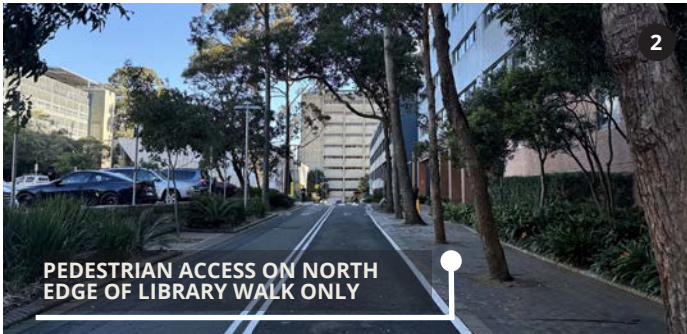


Site Character

Local Street Character - Library Walk



Streetscape



Vegetation Characteristics



Access



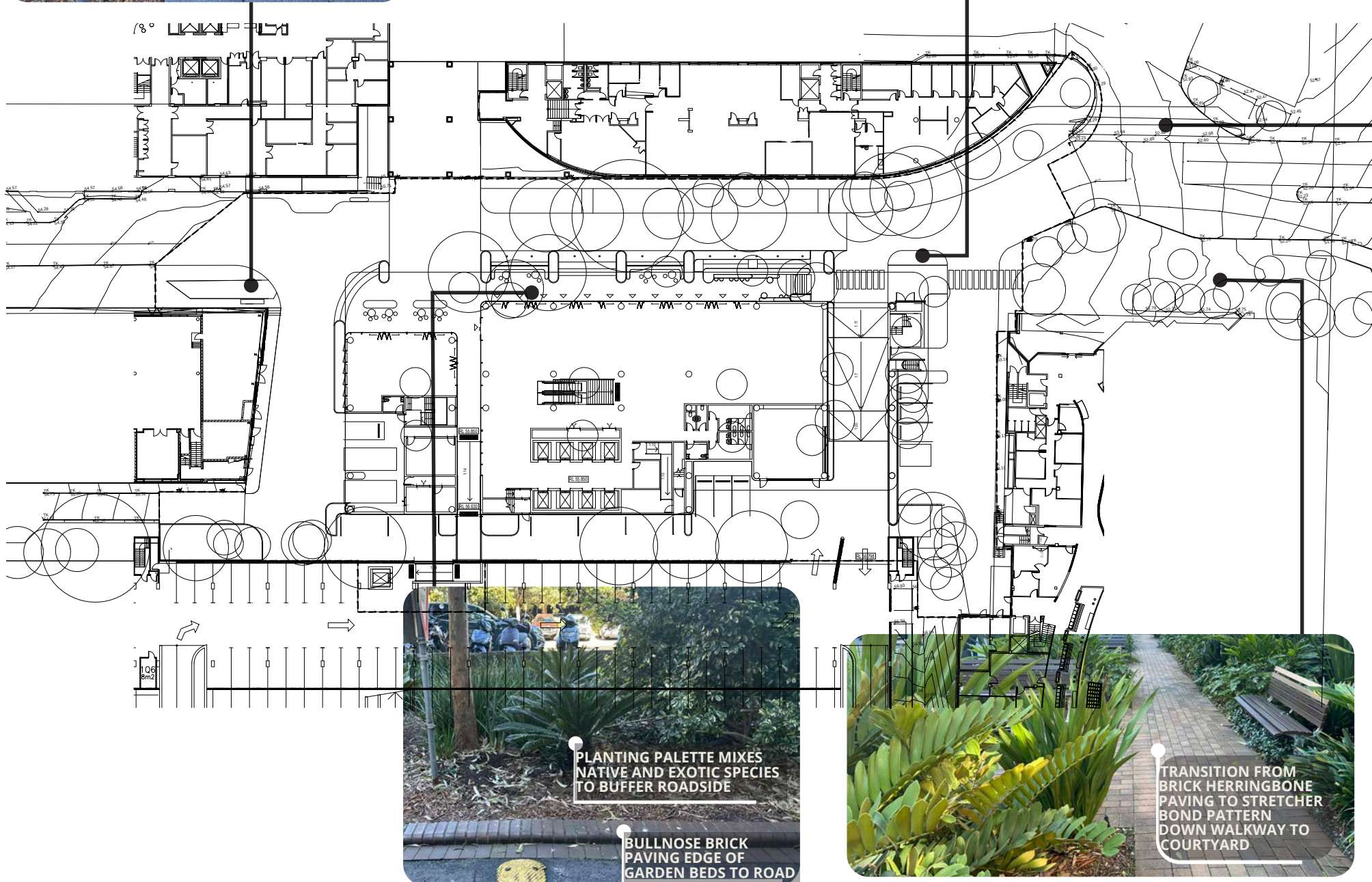
Key Insights & Opportunities

- / Dual way vehicle access
- / Pedestrian footpath
- / Potential heritage elements to be confirmed
- / Site under heavy shade from building on the northern side

Key Issues

- / Wayfinding (new and old) to be consolidated and updated to the latest wayfinding palette for the university
- / Pedestrian footpath on the north side of Library walk only

Site Interfaces - Street Front Analysis



Key Insights & Opportunities

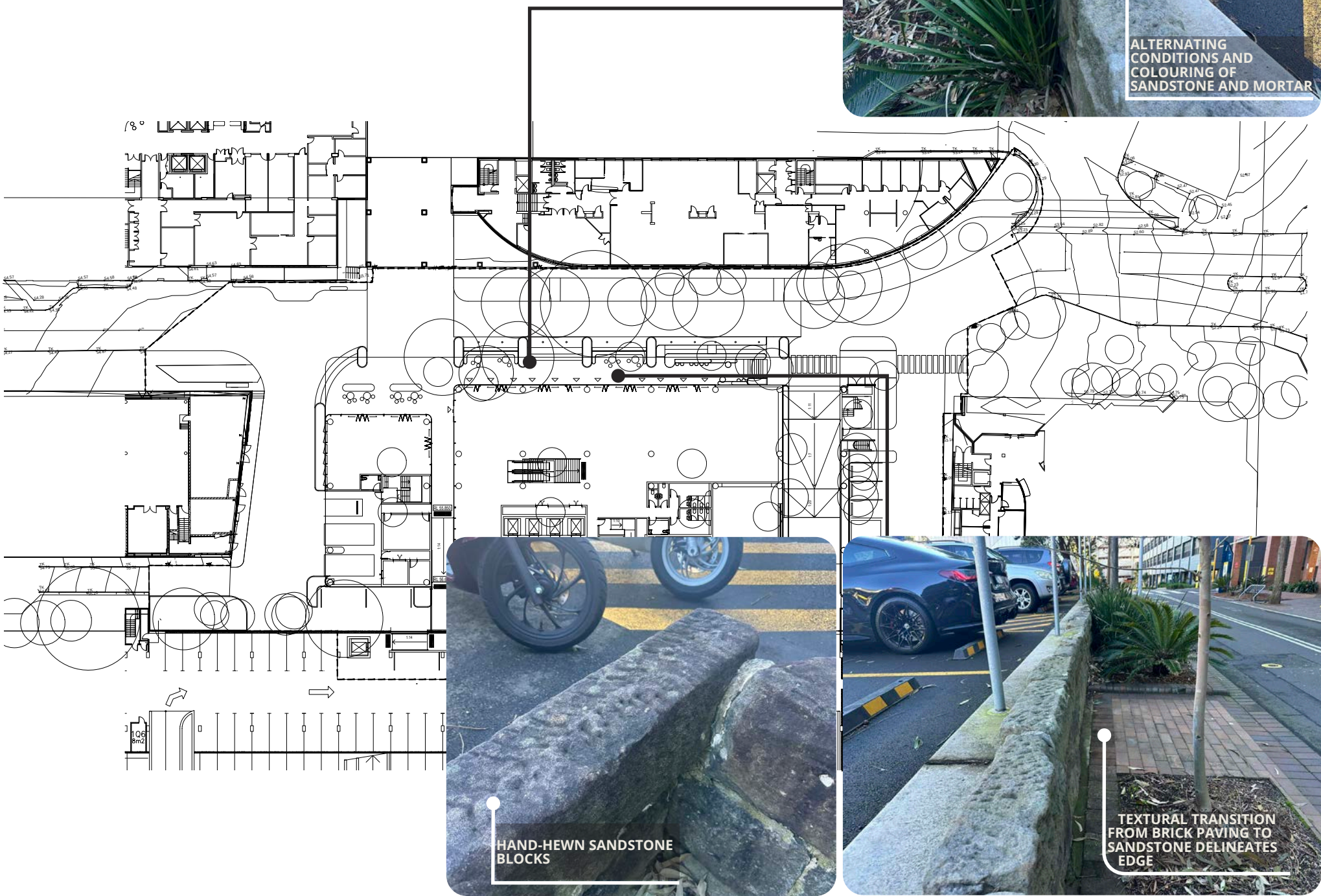
- / Paving transitions used to indicate directional/spatial journeys
- / Planting palette combines lush exotic species and native plants
- / Level changes at footpath/road interface are minimal
- / Bullnose brick paving edge along garden/road interface

Key Issues

- / Road dominated by vehicular traffic
- / Library Walk experience is too vehicle dominant and lacks clear wayfinding

Site Interfaces - Sandstone Wall

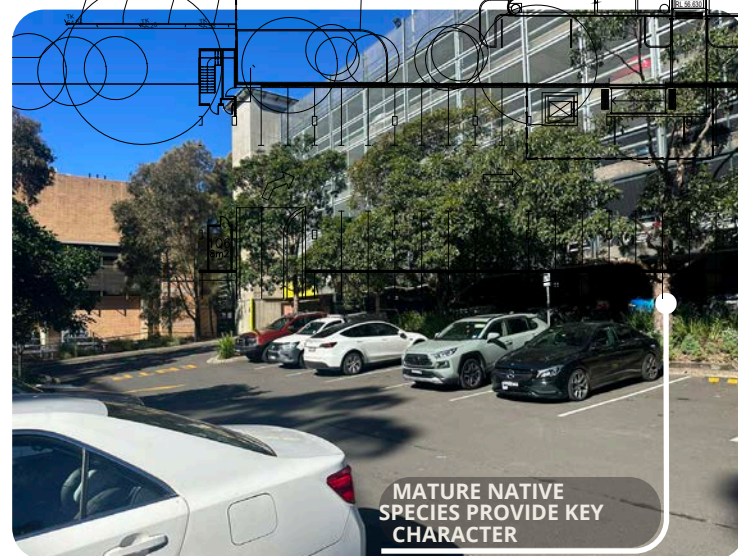
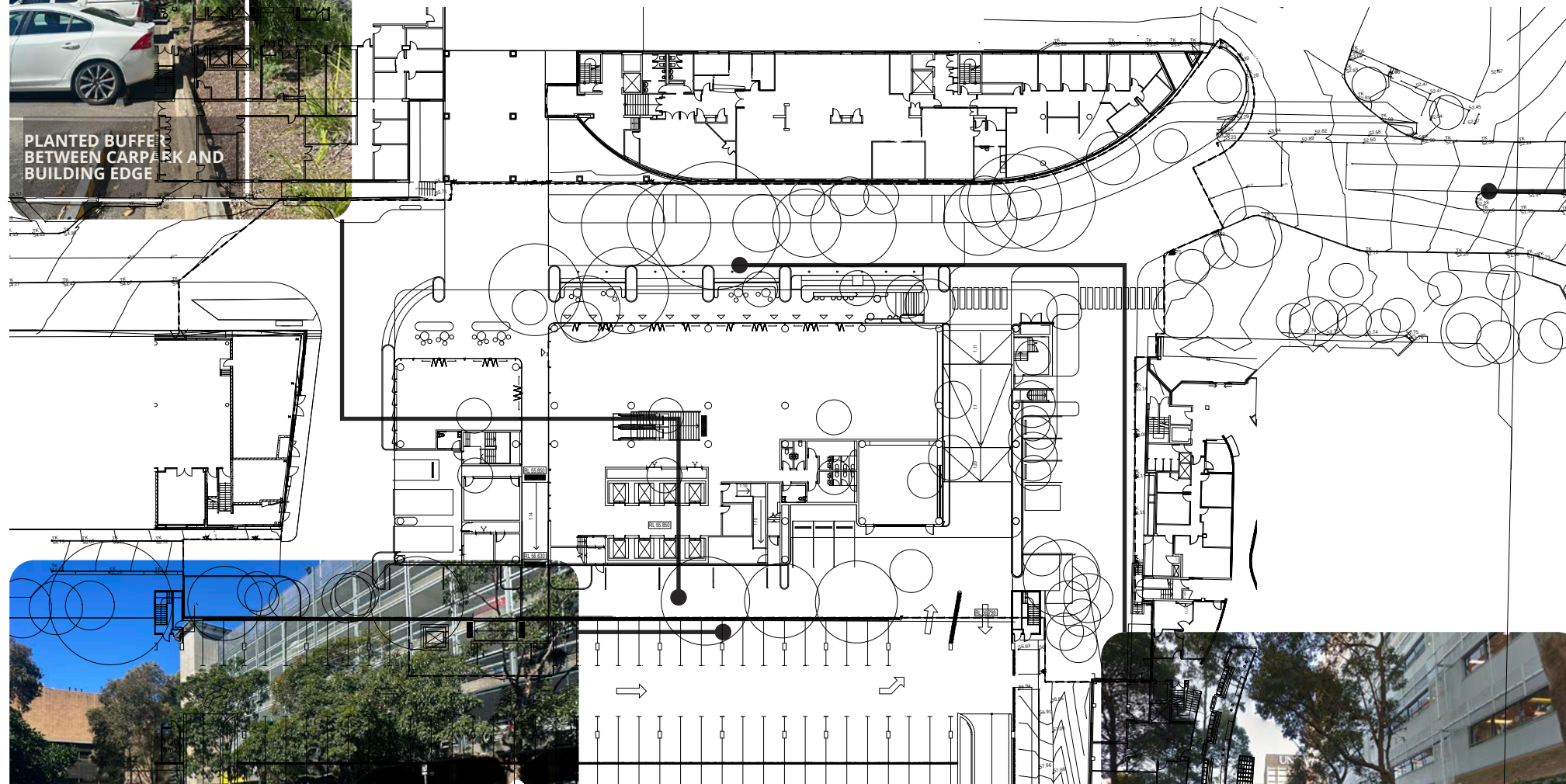
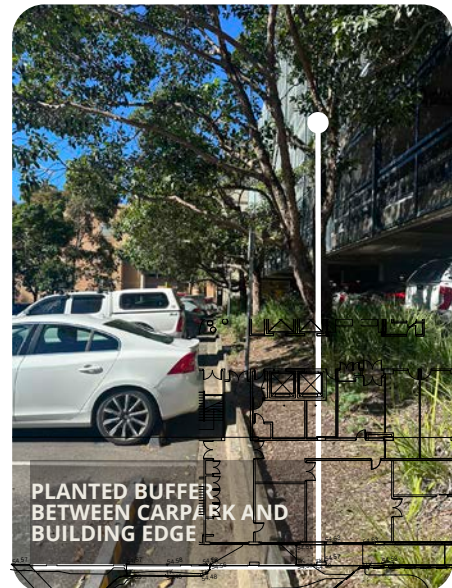
Analysis



Key Insights & Opportunities

- / Paving transitions to clearly define circulation routes.
- / Materiality shift from sandstone to brick to define spatial edges.
- / Variety of clashing paving types, with a lack of coordination and consistent material palette
- / As per the Heritage Report, the sandstone wall is recent/not significant but there is still an opportunity to repurpose the material

Site Interfaces - Trees on Edge Analysis



Key Insights & Opportunities

- / Mature canopy planting adds shady character and visual screening between carpark and walkways, this should be maintained or re-established wherever possible
- / An opportunity to have stronger alignment of more rhythmic tree canopies to replace removed tree, with a more refined endemic planting palette
- / Refer to page 41 for Tree Retention/Removal Plan as informed by the Arborist Report



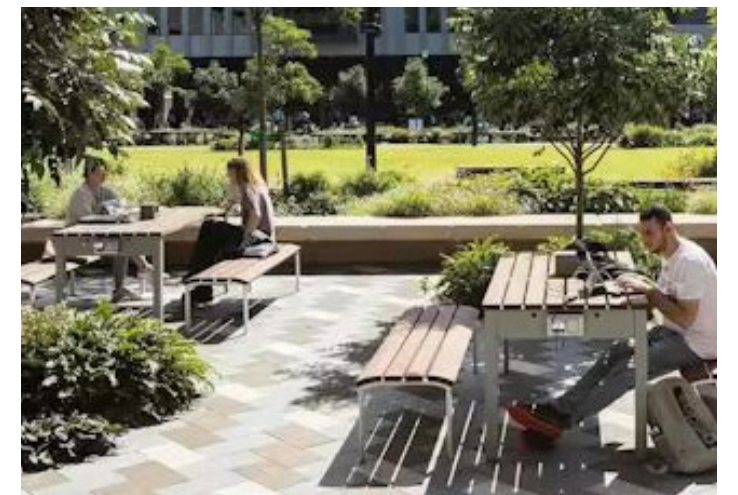
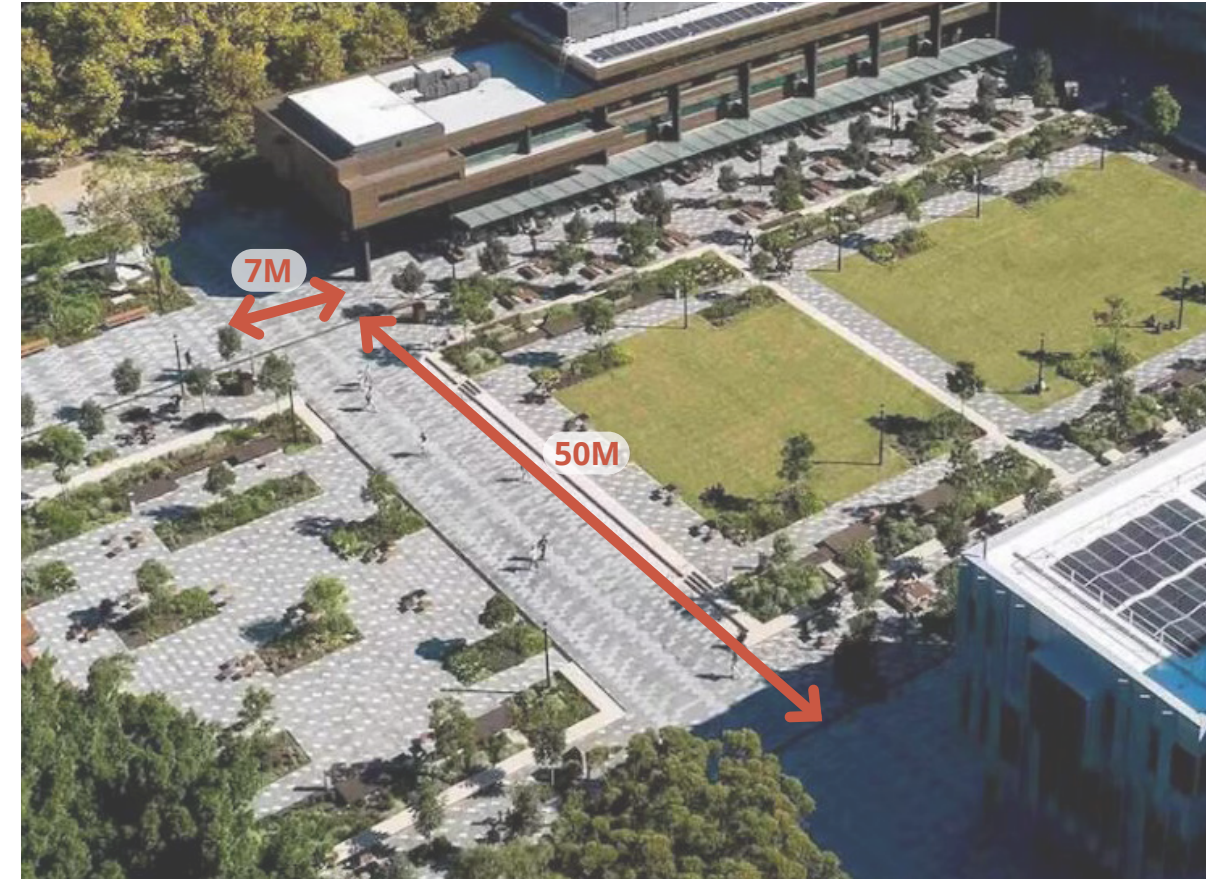
03 CASE STUDIES

Case Study

Macquarie University, Sydney

Key Insights

- / Central Lawn
- / Geometric spaces, paths and furniture
- / Multiple seating options for different sized groups and activities
- / Water feature
- / Large plaza



Case Study

ANU University Walk, Canberra

Key Insights

- / Central Lawn
- / Intersecting pedestrian pathways
- / Differing activation zones
- / Landscape interfacing with F+B



Case Study

UNSW Mall Walk, Sydney

Key Insights

- / Thematic Banding
- / Warm tone and cool grey tone colouring
- / Seating edge by open lawn
- / Linear way finding elements



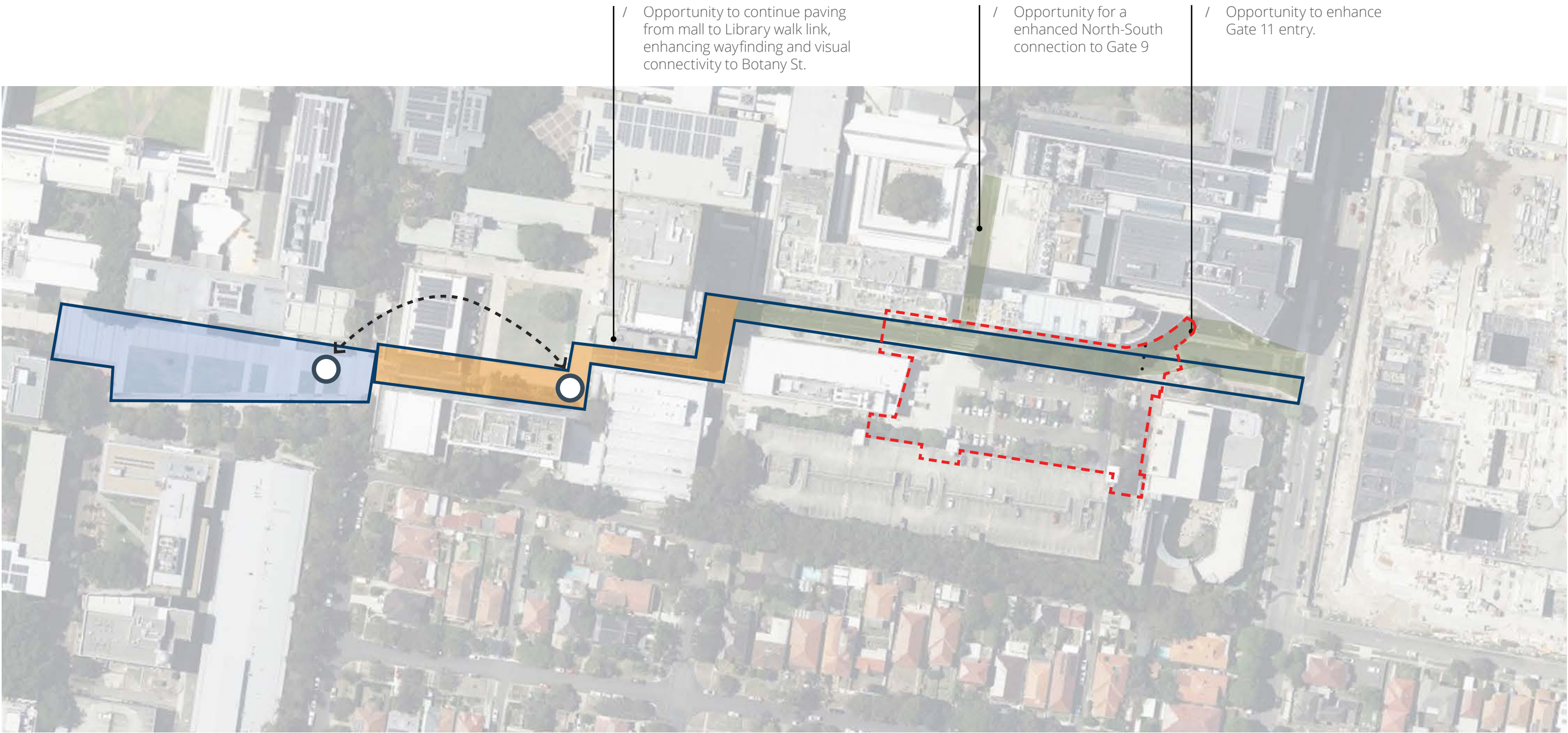
04 DESIGN VISION



Artists Impression by Architectus

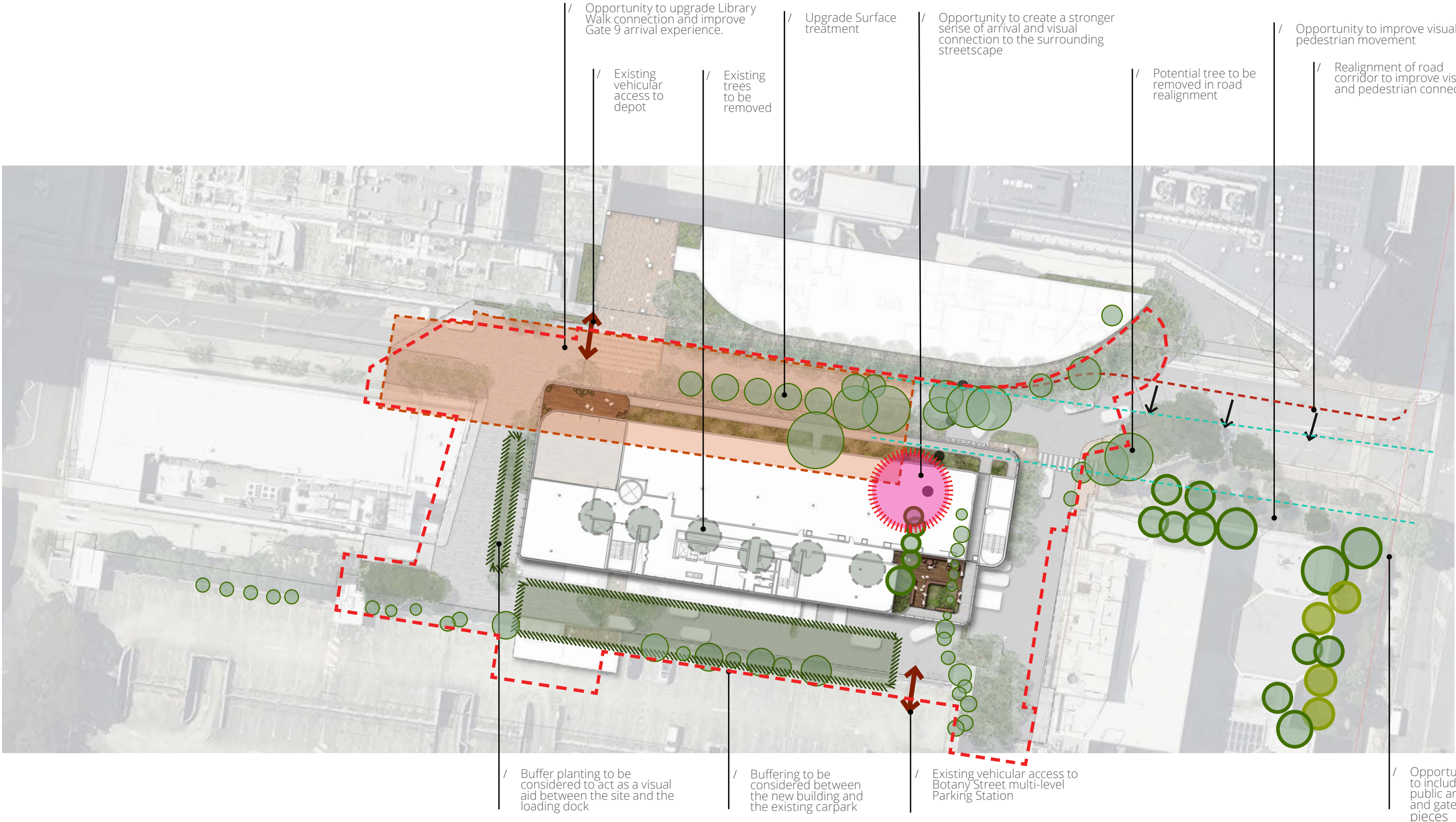
Site Character

Opportunities and Constraints



Site Character

Opportunities and Constraints



Design Principles



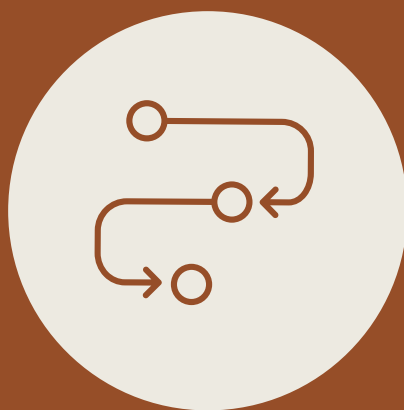
DESIGNING
WITH COUNTRY



PEOPLE FOCUSED
PLACE



PROGRAMMED
FOR LEARNING



PEDESTRIAN FIRST



GREEN
INFRASTRUCTURE

Design Moves

Designing With Country



Connecting with Country Opportunities and Actions

The design development to date for the Connecting with Country design has integrated the findings from the place analysis, Collaborative Design Workshops and Ideation Workshop into three key Connecting with Country principles:

- Connected to Bidjigal Kin
- The Texture of Time
- Welcome, Safe, and Respected.

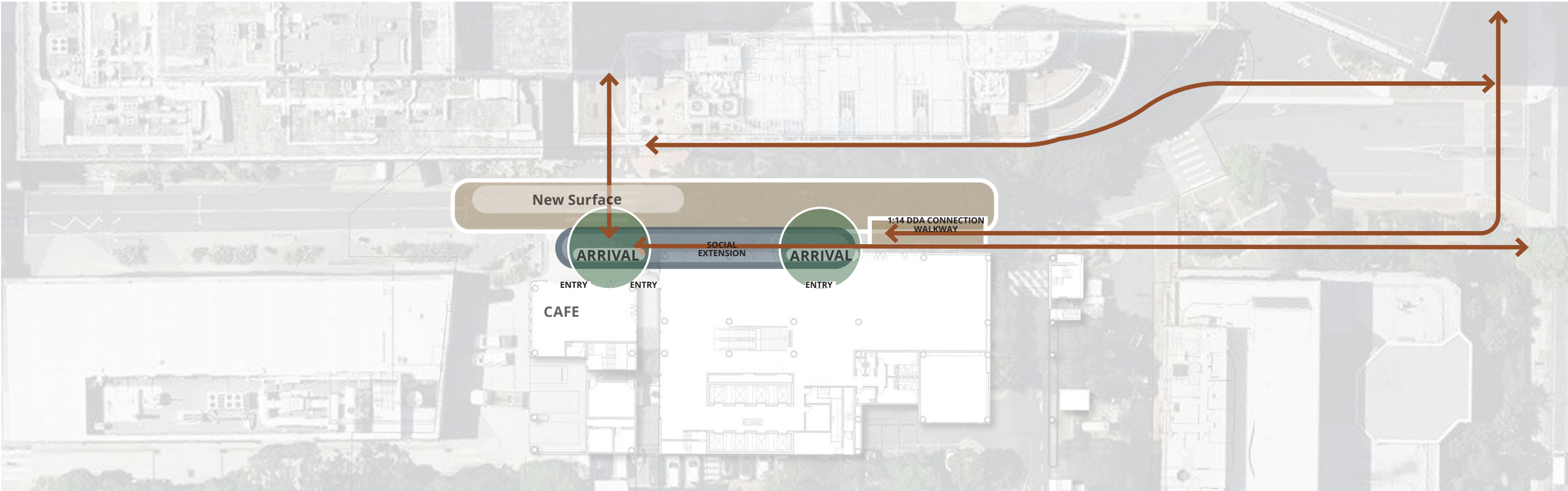
There are two associated design opportunities for each principle.

These principles and opportunities are presented in the following pages not as instructions, but rather as potential design ideas to continue developing from. Similarly, the images shown are to be considered as inspiration and not prescriptive.

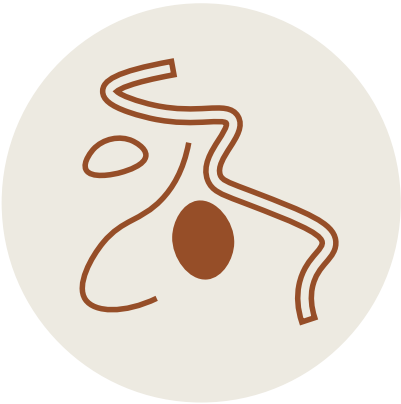


Figure.16 - The Duality of Connections: Expansive and Intimate Engagements with Bidjigal Country's Damp, Coastal Gullies.

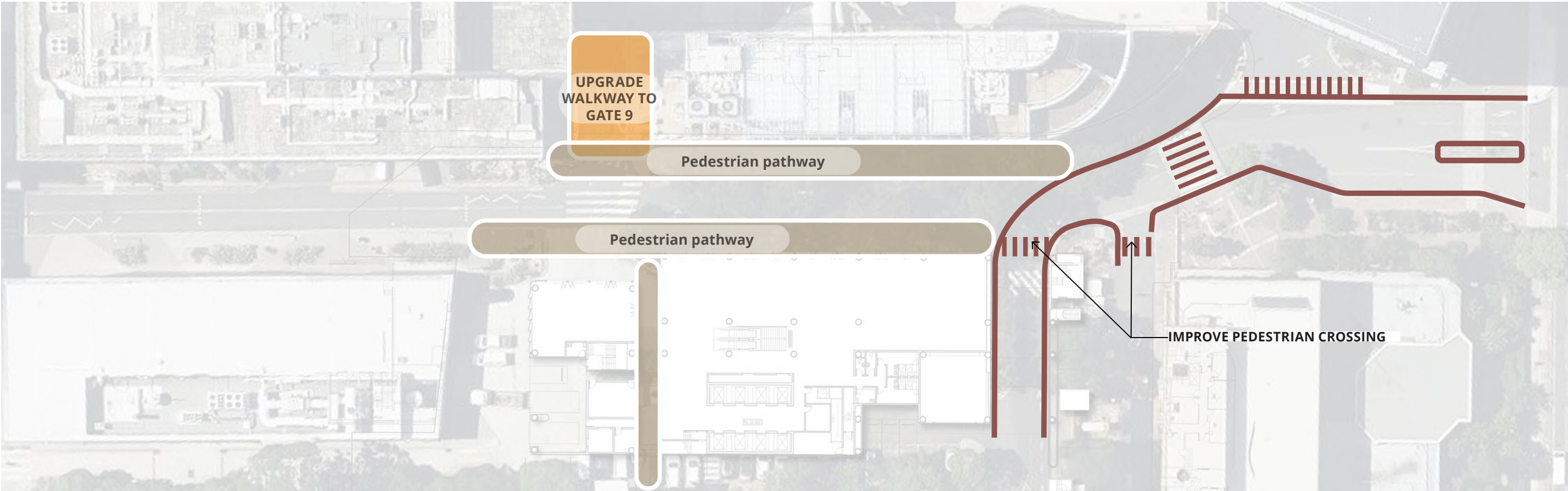
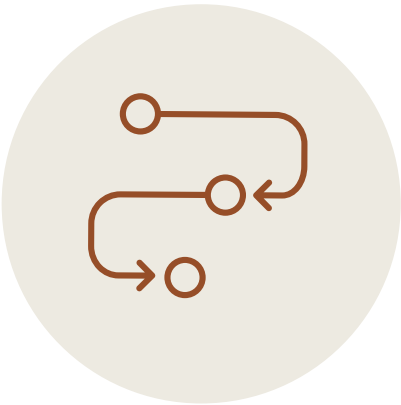
Design Moves
People Focused Place



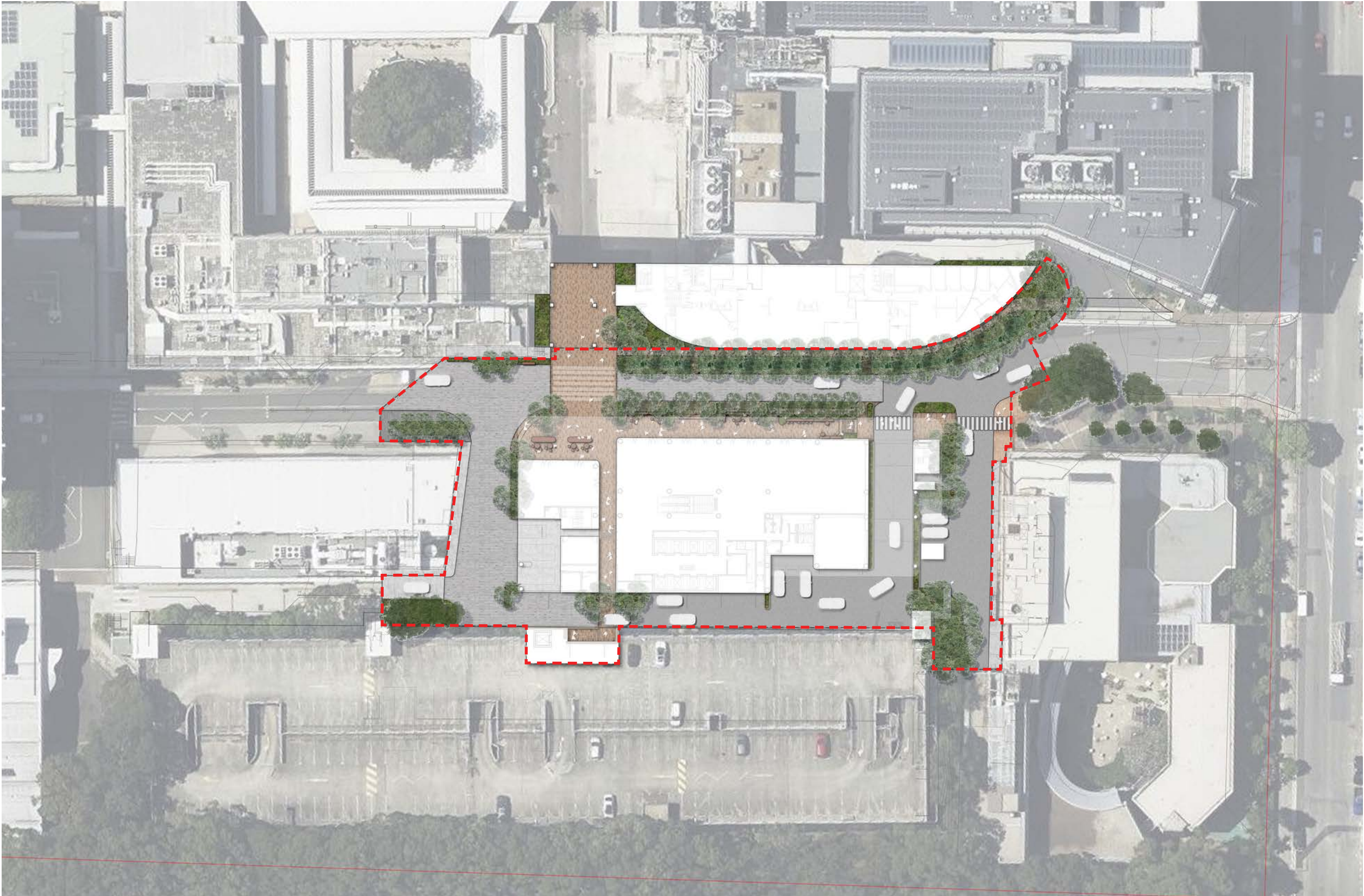
Design Moves
Programs for Learning



Design Moves
Pedestrian First

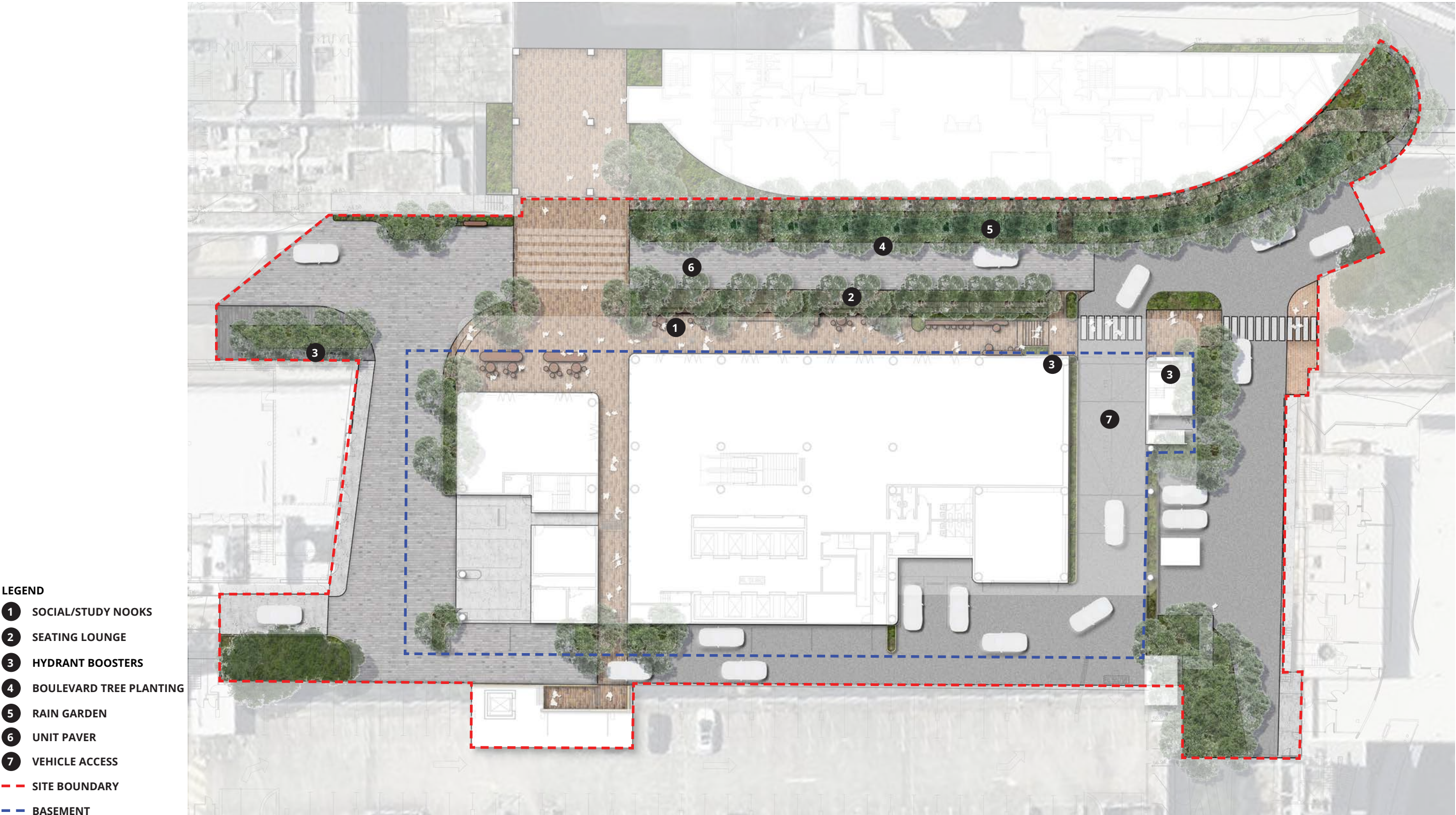


Landscape Masterplan



Landscape Masterplan

Concept Design

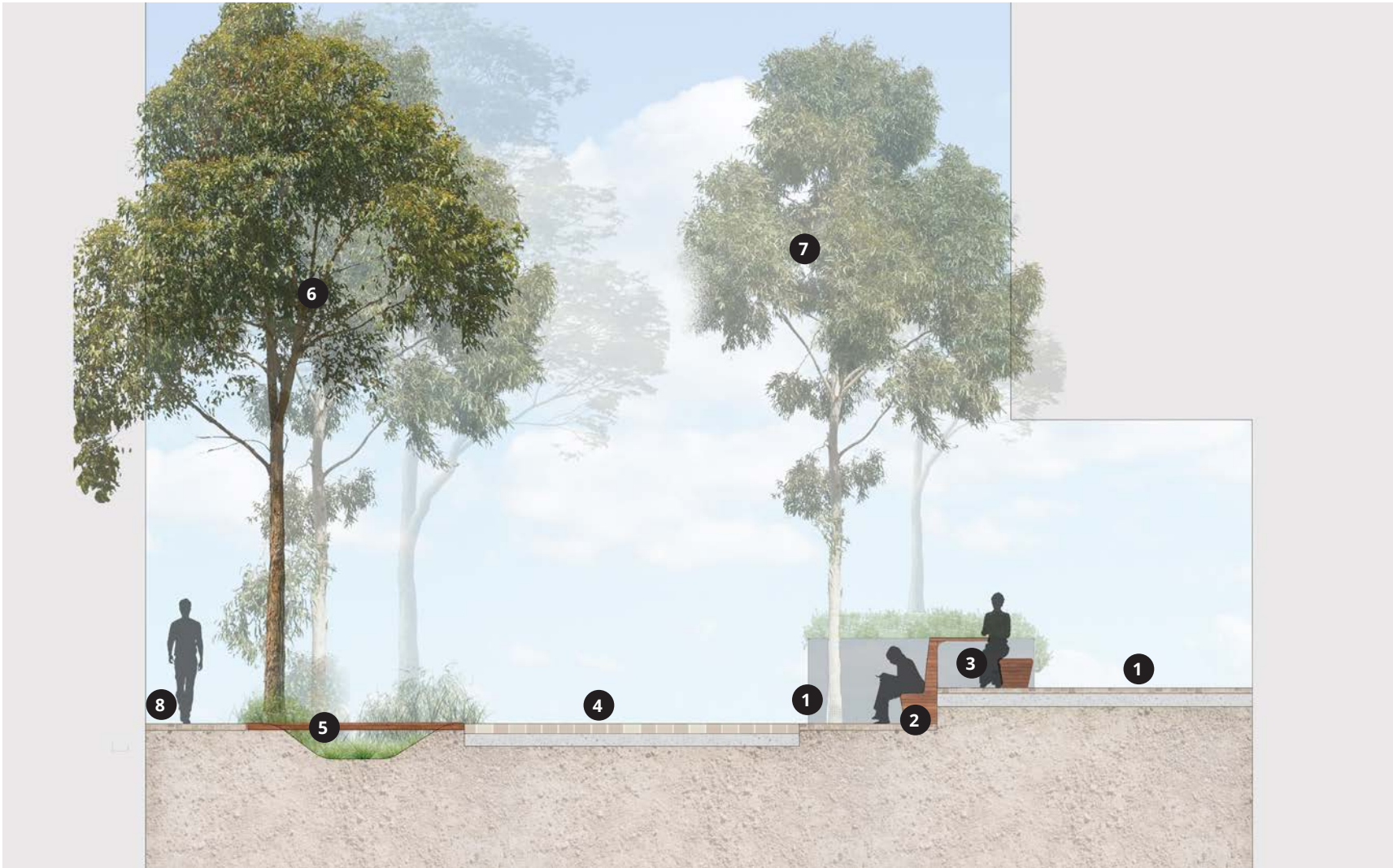


Landscape Masterplan - Trees turned off

Concept Design

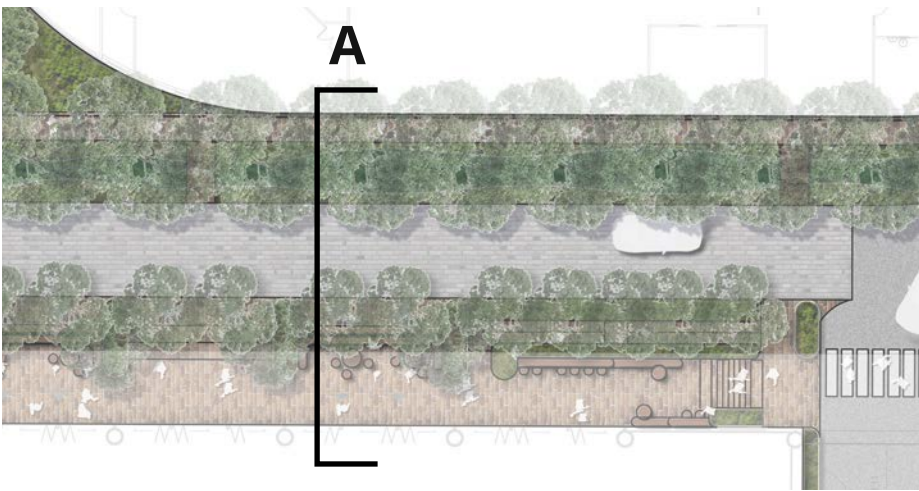


Sections



SECTION A

- LEGEND
- 1 UNIT PAVING
 - 2 SEATING LOUNGE
 - 3 SOCIAL & DINING SEATING
 - 4 ROAD (UNIT PAVING)
 - 5 RAIN GARDEN WITH BOARDWALK OVER CONNECTIONS
 - 6 WATER TOLERANT CANOPY TREES
 - 7 TREES FLUSH WITH PAVING
 - 8 PEDESTRIAN ACCESS PATH



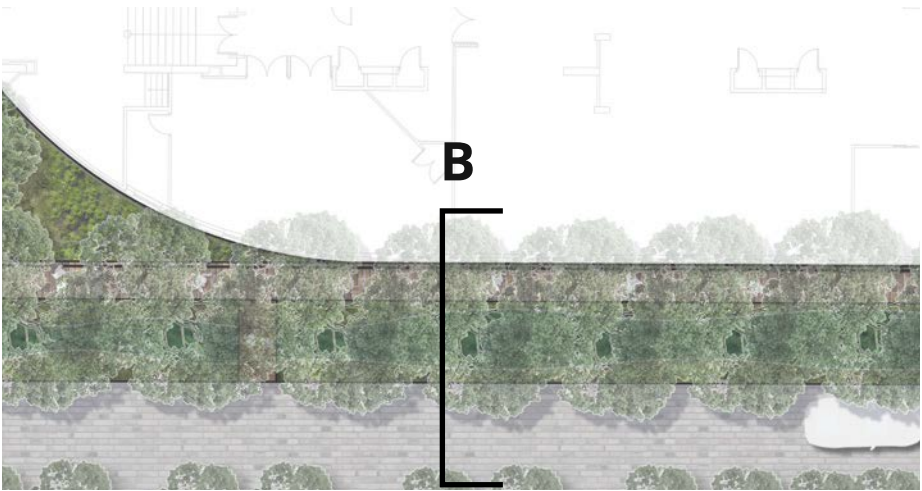
Sections

Rain Garden



SECTION B

- LEGEND
- 1 UNIT PAVING
 - 2 RAIN GARDEN & WATER SENSITIVE PLANTING
 - 3 LARGE NATIVE WATER TOLERANT TREES
 - 4 ACCESS PATH

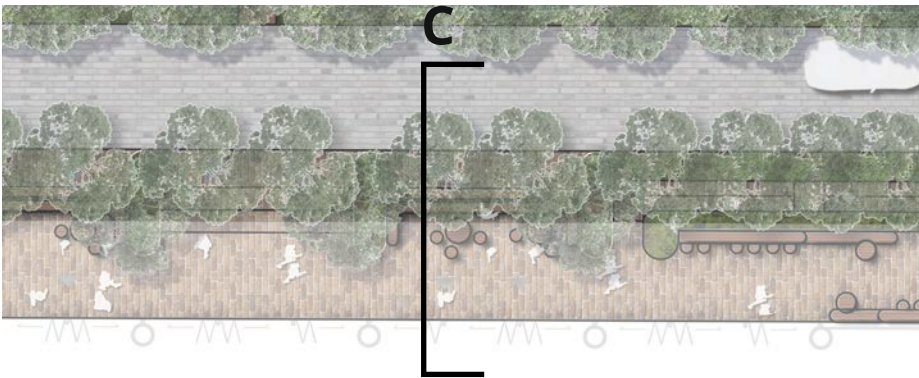


Sections

Social Spillout



SECTION C



LEGEND

- 1 UNIT PAVING
- 2 TREES IN GRATE
- 3 LOUNGE SEATING SPACES
- 4 SOCIAL & DINING SEATING

1:75 @ A3

0 0.75 1.5 3m

ARCADIA

Landscape Masterplan

Consideration on Urban Heat Island effect and Greener Places

The design focuses on creating a well-connected canopy cover on both sides of Library Walk. Trees have been strategically placed according to wind consultant advice, aiming to improve comfort by reducing down drafts.

Vegetation has been maximized in the area, with a focus on Water Sensitive Urban Design (WSUD) treatment on the north side of Library Walk. the green buffer is maximised to reduce the extent of hardscaping.

Where hardscaping is necessary, the design prioritizes natural stone as paving materials that are cooler compared to composite options, such as concrete.

Tree species such as Tuckeroo, and Lilly Pillys have been carefully chosen for their ability to provide high-quality canopy cover and shade.

LEGEND

1

NATURAL STONE MATERIAL TO HARDSCAPE

2

WELL CONNECTED CANOPY COVER

3

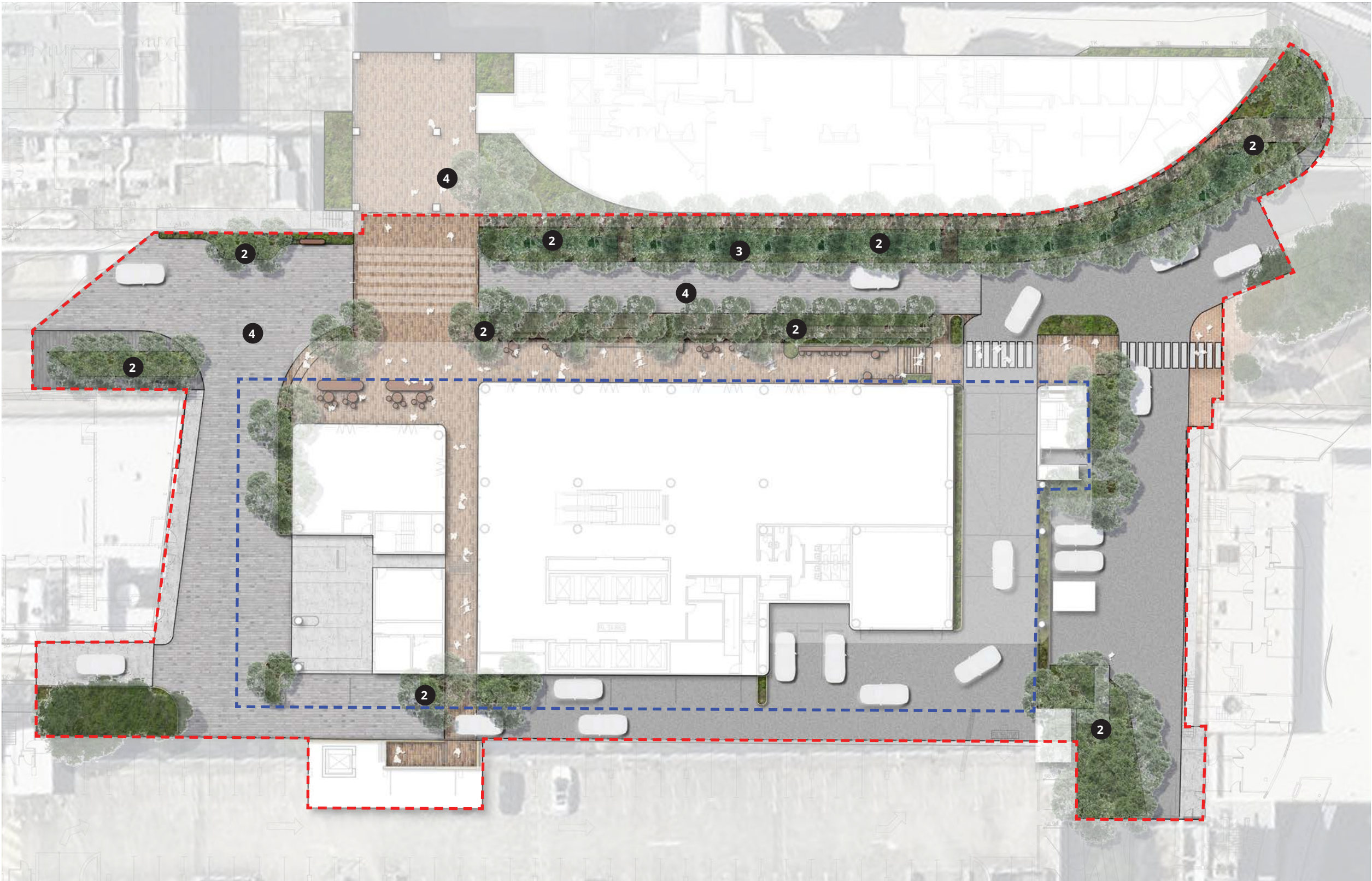
WSUD

4

NATURAL GRANITE PAVING MATERIAL

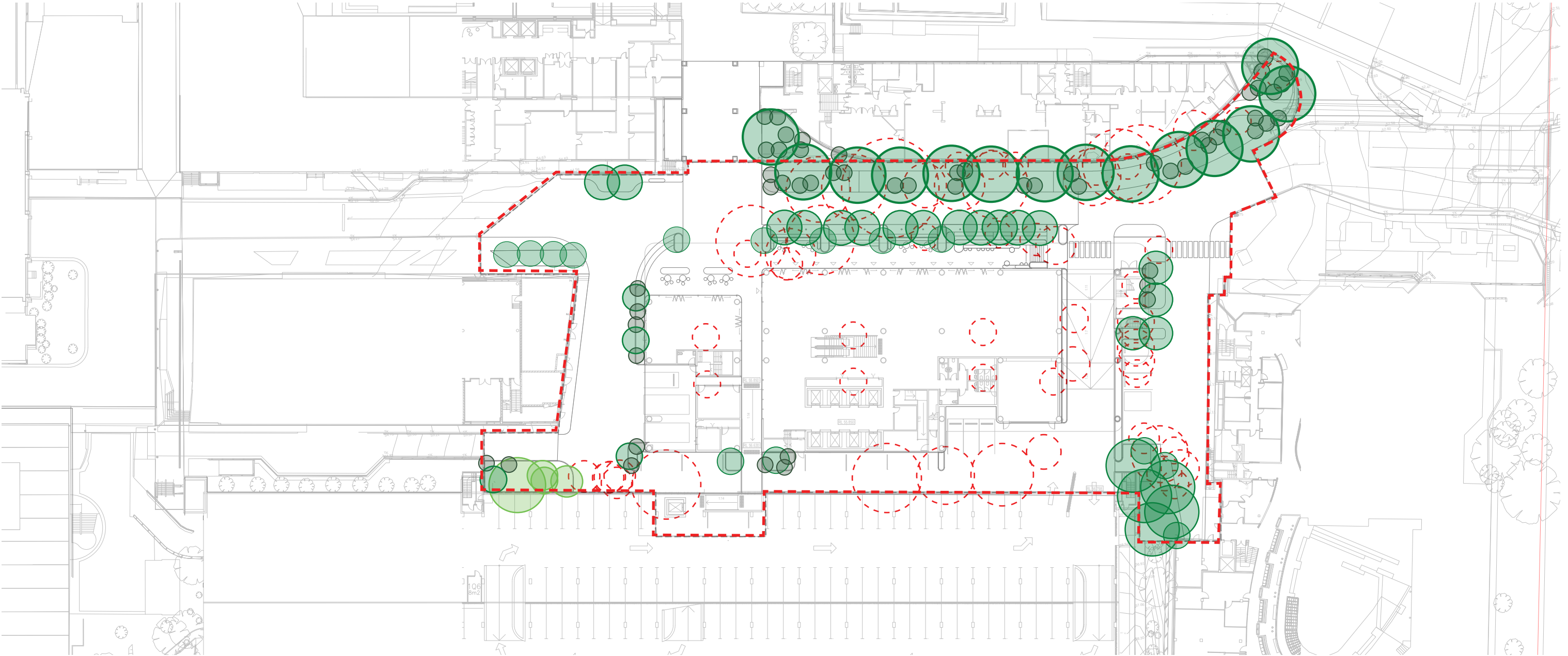
SITE BOUNDARY

BASEMENT



DESIGN RESPONSE ANALYSIS

Tree Removal and Replacement Plan



LEGEND

- TREES TO BE REMOVED
- TREES TO BE RETAINED
- PROPOSED TREES
- PROPOSED TREE FERNS
- SITE BOUNDARY

WITHIN SITE BOUNDARY:

- TREES FOR RETENTION: 4
- TREES FOR REMOVAL: 57
- PROPOSED NEW TREES + FERN TREES: 110

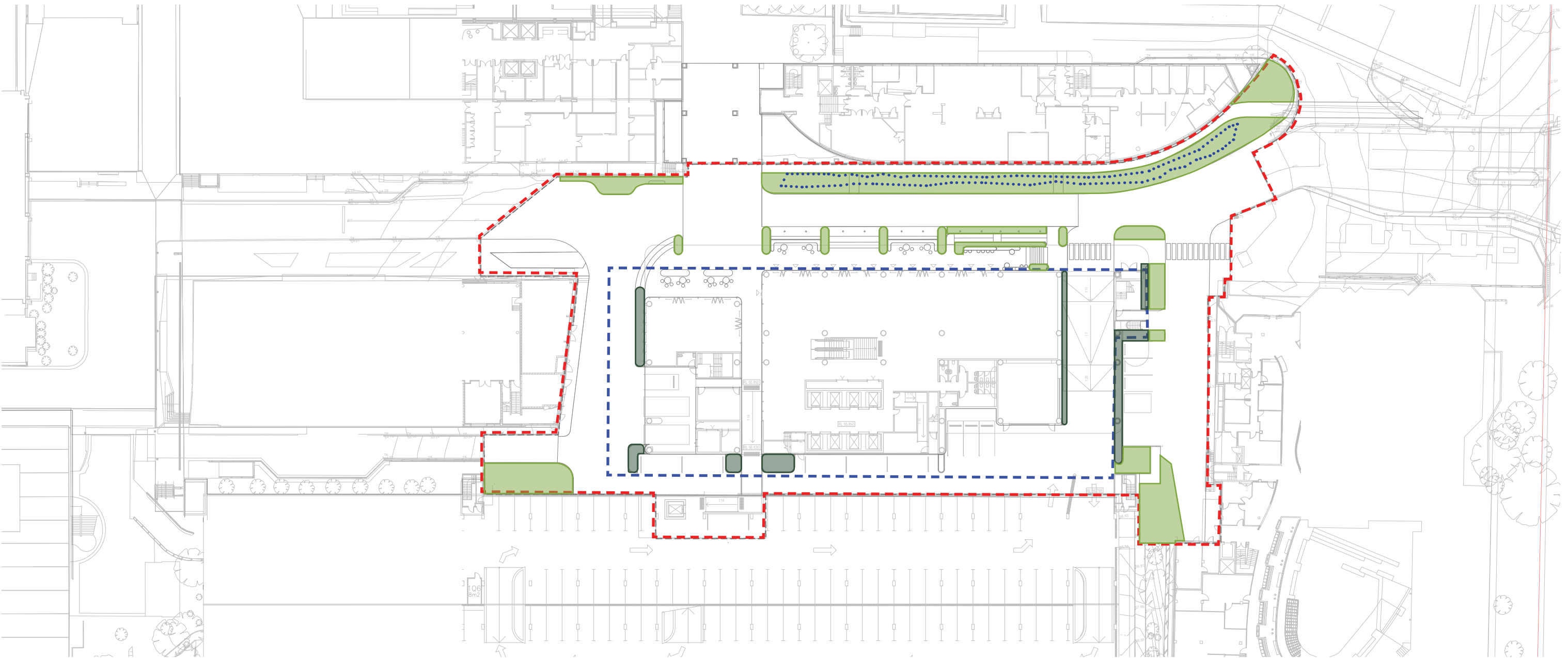
(REFER TO ARBORIST REPORT & SOFTWORKS PACK FOR DETAIL)

CANOPY COVERAGE METRICS

- TOTAL SITE AREA: 5720M2
- RETAINED CANOPY COVER: 56.5M2
- PROPOSED CANOPY COVERAGE: 1200M2
- (20.98% OF TOTAL SITE AREA)
- PROPOSED + RETAINED CANOPY COVERAGE: 1256.5M2
- (21.97% OF TOTAL SITE AREA)

DESIGN RESPONSE ANALYSIS

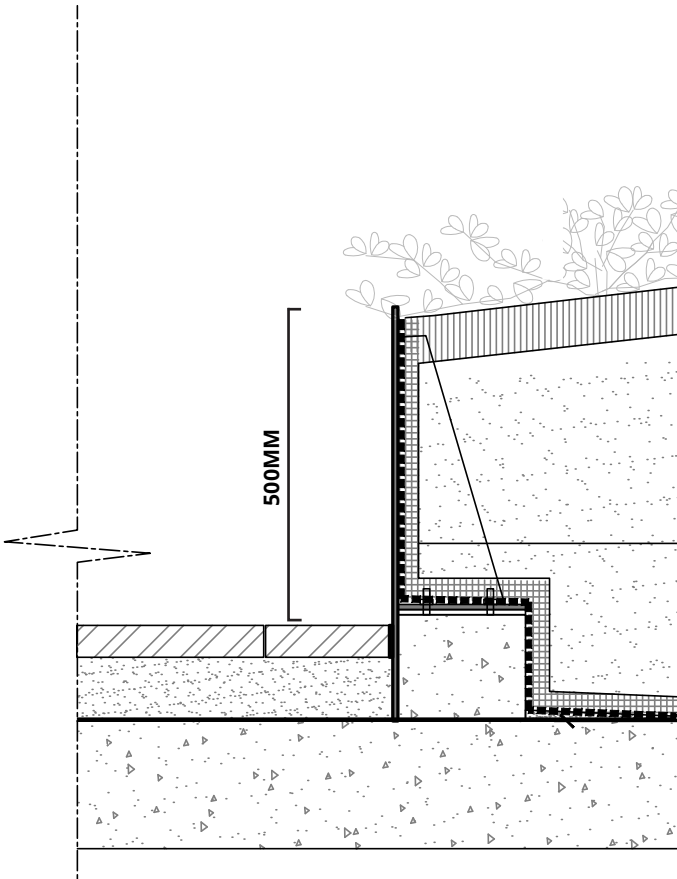
Soil Depth Plan - Ground Level



- LEGEND**
- DEEP SOIL ZONE
 - 1000MM SOIL
 - WSUD OPPORTUNITY
 - LOWER GROUND EXTENT
 - SITE BOUNDARY

DESIGN RESPONSE ANALYSIS

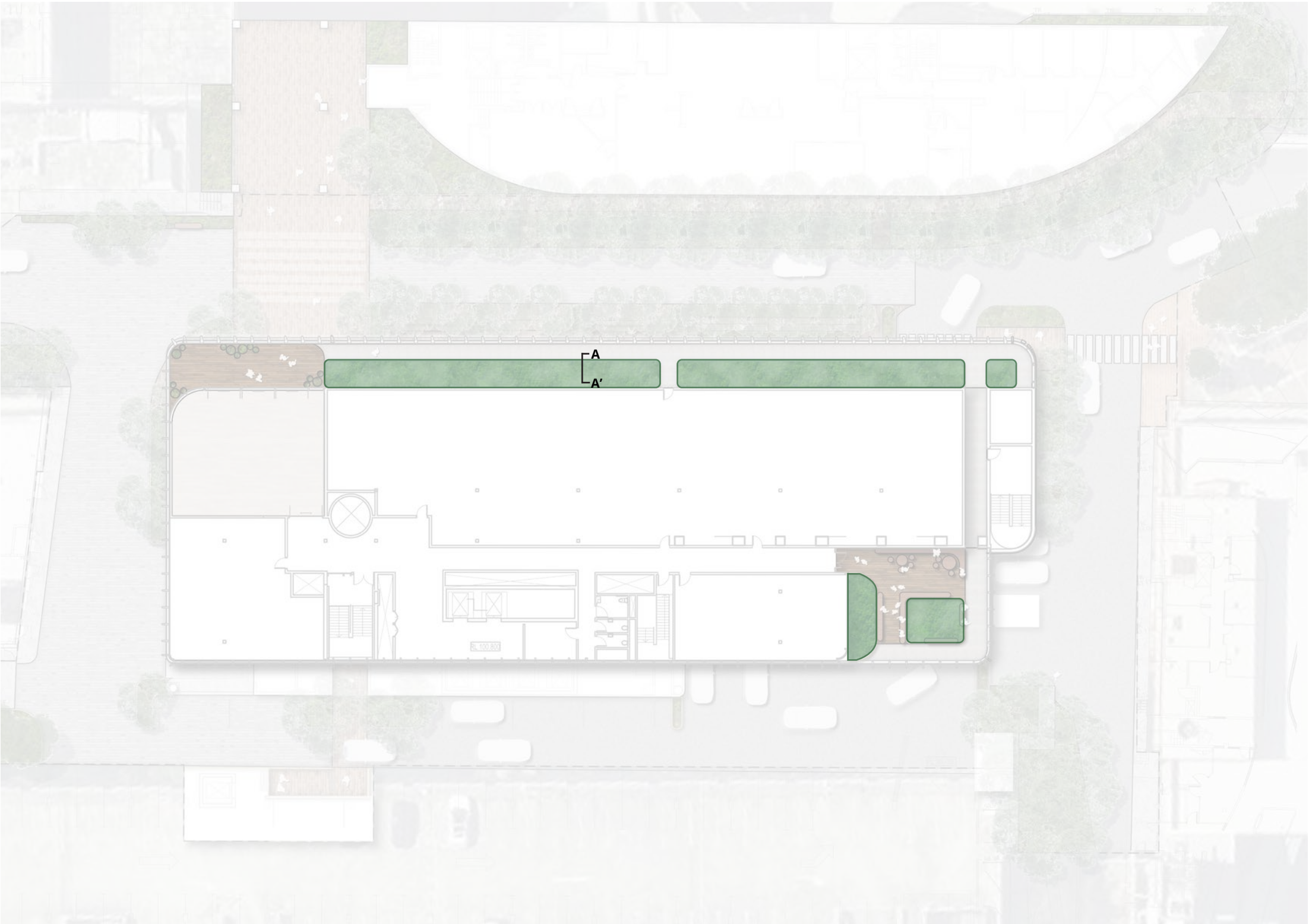
Soil Depth Plan - Roof Terrace



SECTION AA'

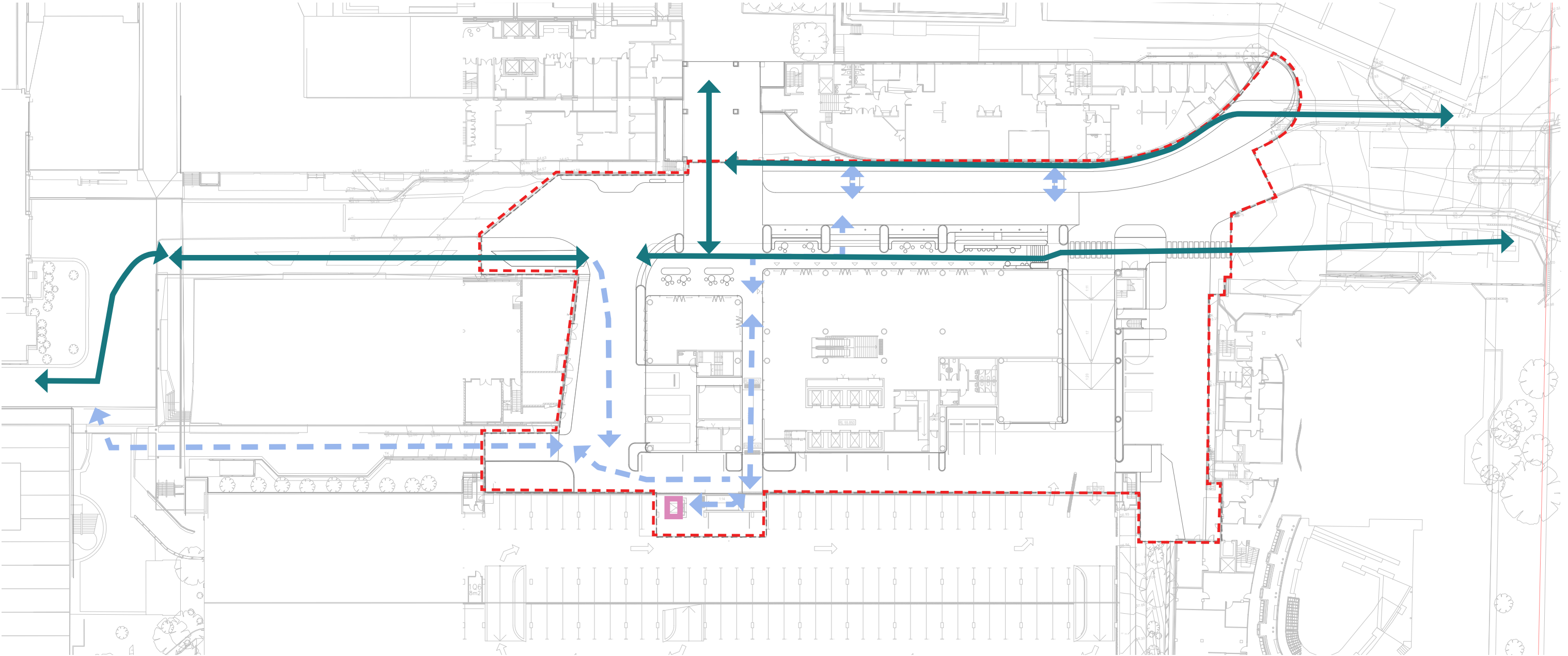
LEGEND

500MM PLANTER HEIGHT FROM FFL



DESIGN RESPONSE ANALYSIS

Pedestrian Movement

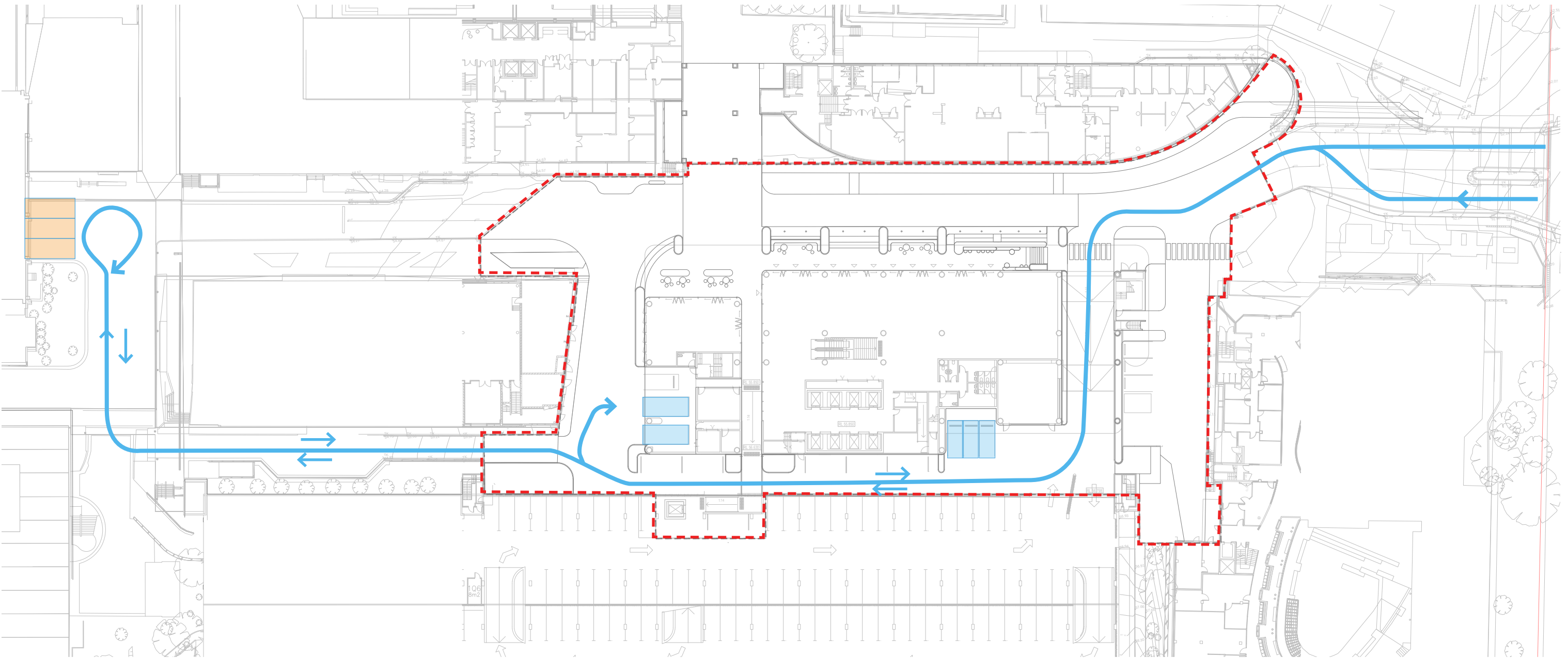


- LEGEND
- PRIMARY PEDESTRIAN ROUTE
 - SECONDARY PEDESTRIAN ROUTE
 - INDICATIVE LIFT RELOCATED

DESIGN RESPONSE ANALYSIS

Light Vehicle Movement

BI-DIRECTIONAL MOVEMENT ALONG SINGLE LANE WITH PASSING BAYS



LEGEND

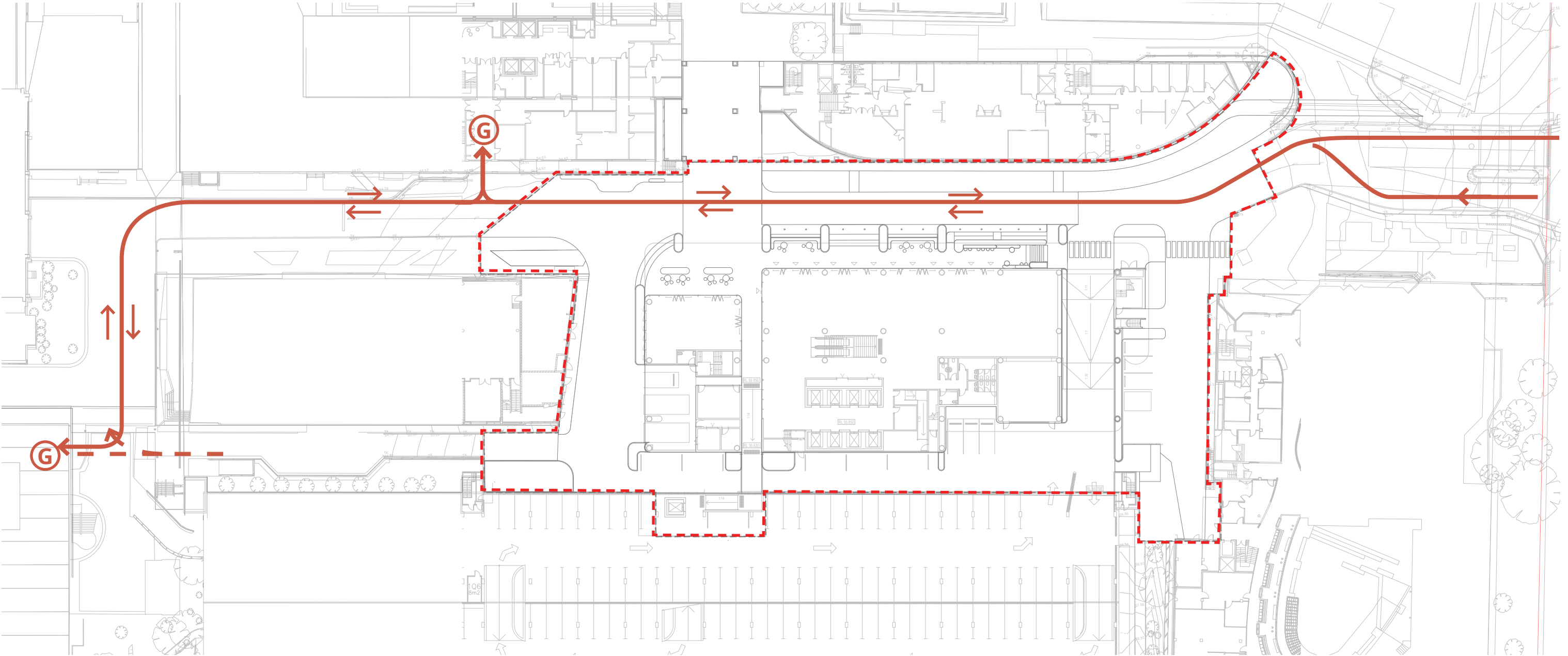
- ← LIGHT VEHICLE MOVEMENT
- PARKING SPACES
- LOADING ZONES



DESIGN RESPONSE ANALYSIS

Garbage Vehicle Movement

BI-DIRECTIONAL MOVEMENT THROUGH 4.5M WIDE PEDESTRIAN PLAZA WITH
CONTROLLED VEHICULAR ACCESS



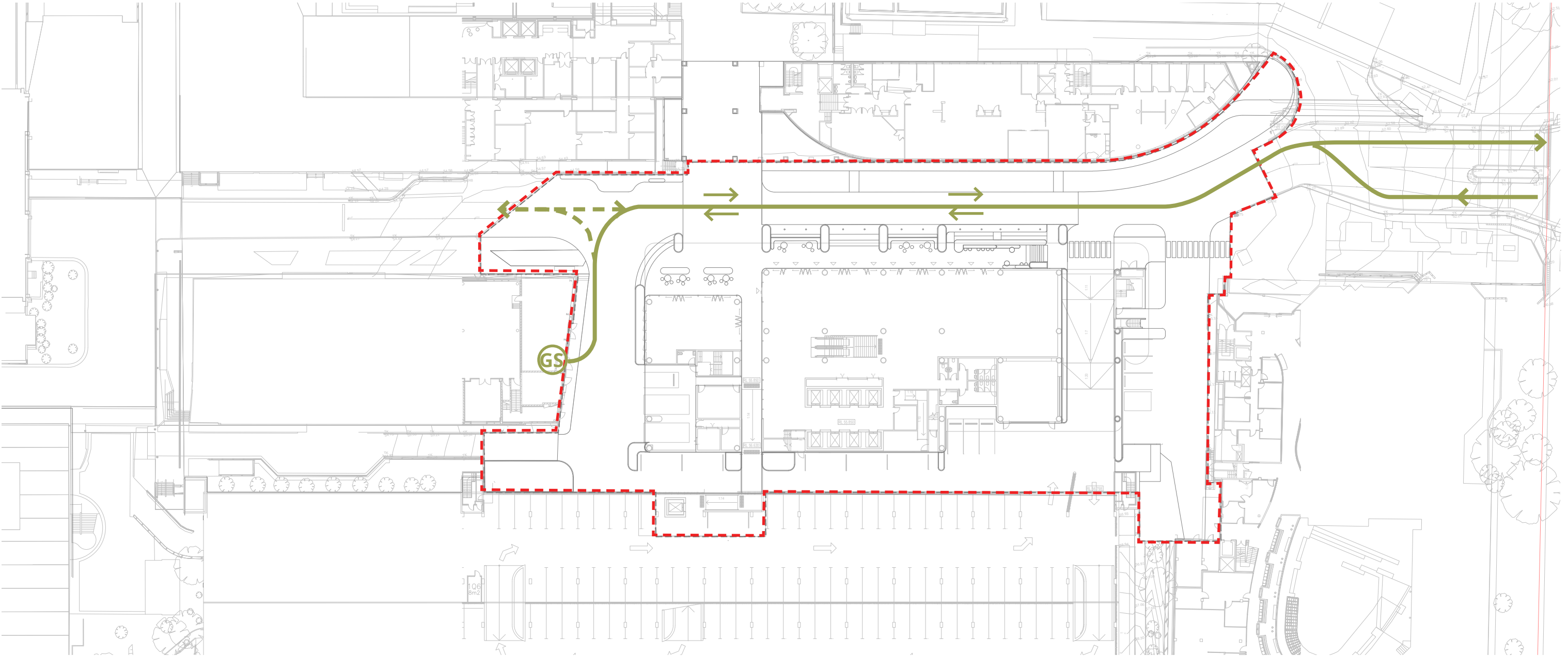
LEGEND

← GARBAGE VEHICLE MOVEMENT

DESIGN RESPONSE ANALYSIS

Gas Vehicle Movement

BI-DIRECTIONAL MOVEMENT THROUGH 4.5M WIDE PEDESTRIAN PLAZA WITH
CONTROLLED VEHICULAR ACCESS

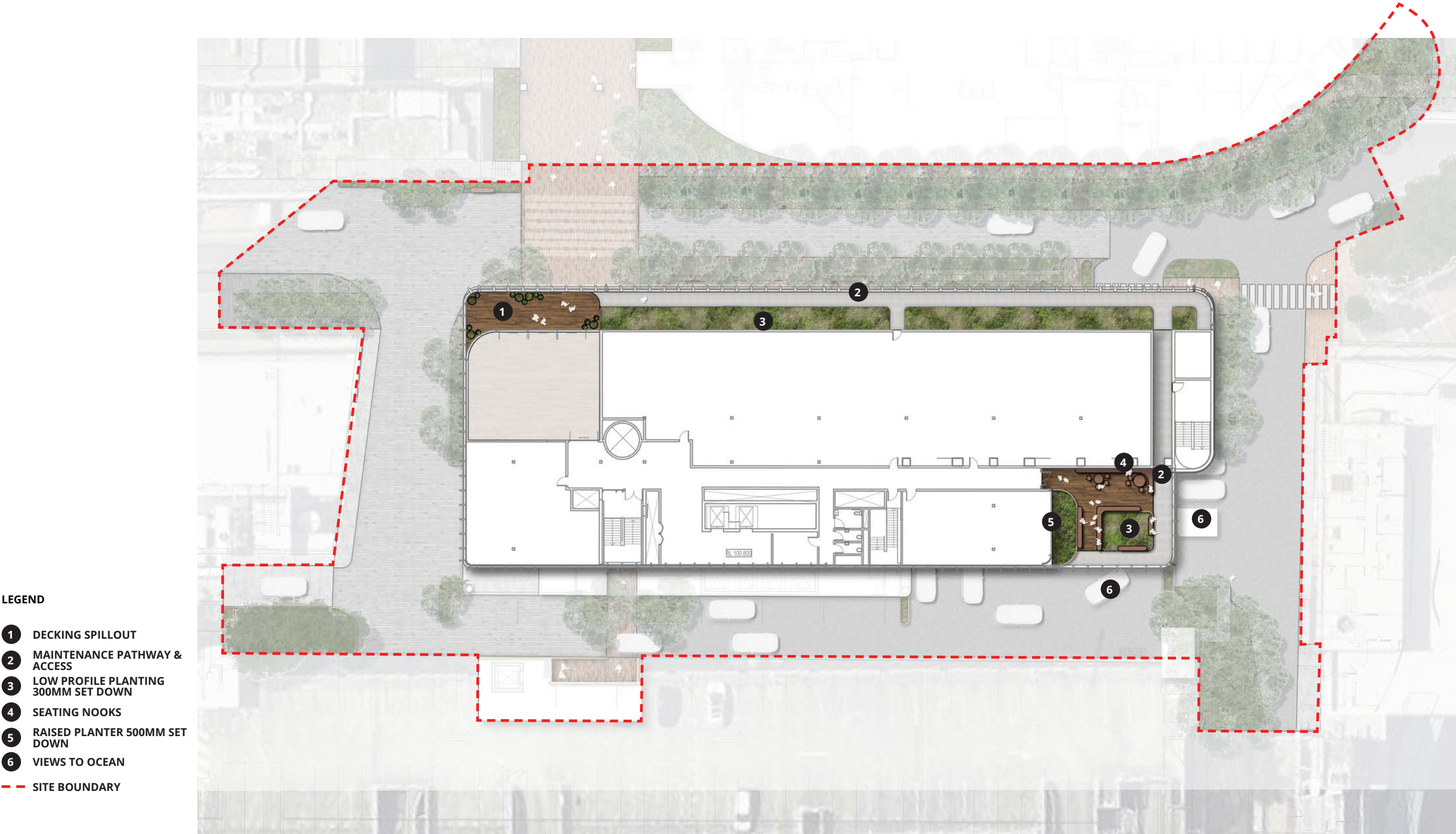


LEGEND

← GAS VEHICLE MOVEMENT

Landscape Masterplan

Rooftop



PLANTING PALETTE

Trees



Flindersia australis



Waterhousia floribunda



Cupaniopsis anacardioides



Elaeocarpus reticulatus



Cyathea australis



Cyathea cooperi



Dicksonia antarctica



Todea barbara

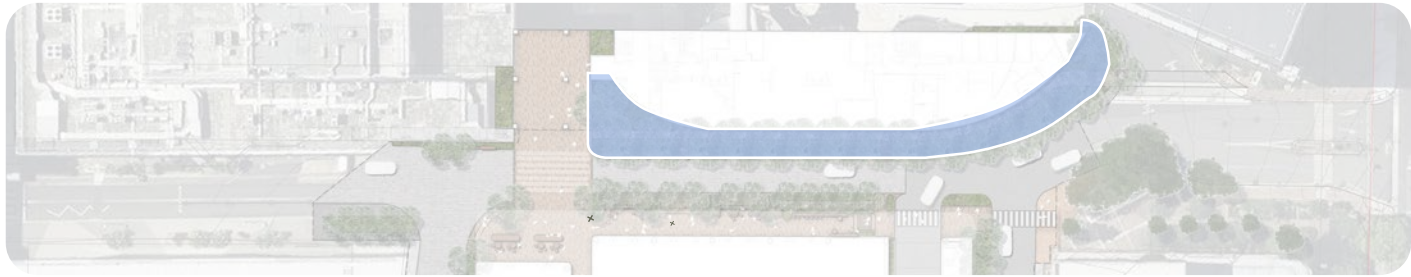


Syzygium paniculatum



PLANTING PALETTE

Water Sensitive Urban Design (WSUD)



Edge/Batters



Dianella caerulea



Lomandra longifolia 'Lime Tuff'



Pennisetum alopecuroides



Lomandra filiformis



Poa affinis



Microlaena stipoides



Poa sieberiana



Imperta cylindrica



Dianella tasmanica



Themeda australis



Dianella revoluta



Lomandra longifolia

Basin/Emergents



Baumea juncea



Phragmites australis



Gahnia clarkei



Juncus krausii



Juncus usitatis



Ficinia nodosa



Carex fascicularis



Gahnia sieberiana



Schoenoplectus validus



Baumea articulata



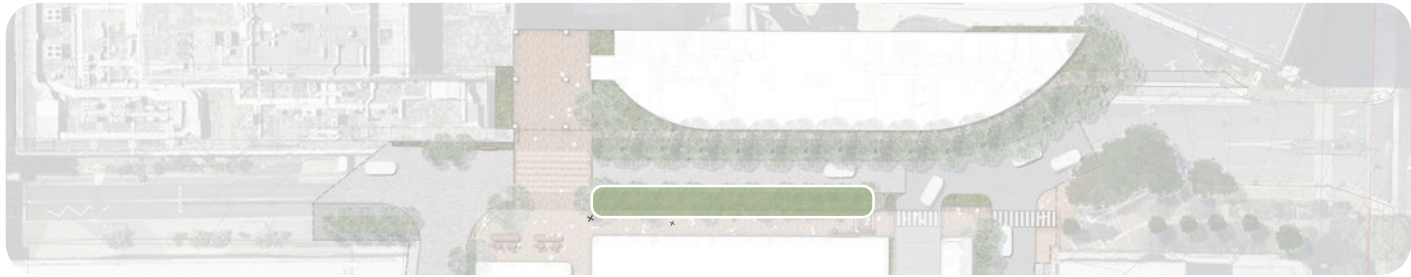
Carex appressa



Poa labillardieri

PLANTING PALETTE

Gully Planting



Ferns



Adiantum aethiopicum



Asplenium australasicum



Blechnum cartilagineum



Doodia aspera



Microsorium diversifolium

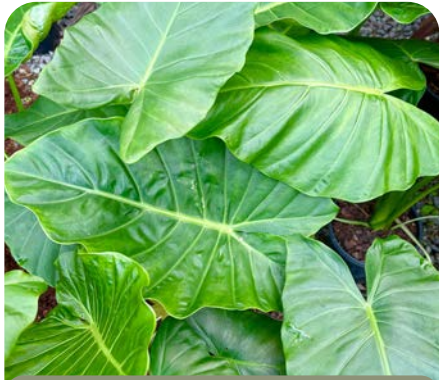


Pteris tremula

Shrubs & Accents



Cordyline stricta



Alocasia brisbanensis



Melaleuca thymifolia



Crowea saligna



Grevillea speciosa



Xanthorrhoea resinosa

Grasses



Crinum pedunculatum



Dianella caerulea



Gahnia clarkei



Lomandra filiformis



Lomandra longifolia 'Lime Tuff'



Ficinia nodosa

Groundcovers



Dichondra repens



Plectranthus parviflorus



Viola hederacea



Billardiera scandens



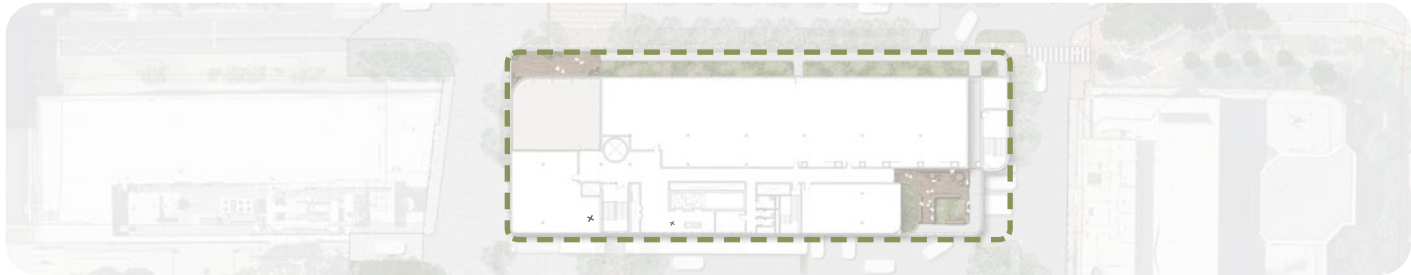
Hardenbergia violacea



Hibbertia scandens

PLANTING PALETTE

Roof Terrace



Grasses



Dianella caerulea



Gahnia clarkei



Lomandra filiformis



Lomandra longifolia 'Lime Tuff'



Poa sieberiana



Poa affinis

Groundcovers



Dichondra repens



Plectranthus parviflorus



Viola hederacea



Billardiera scandens

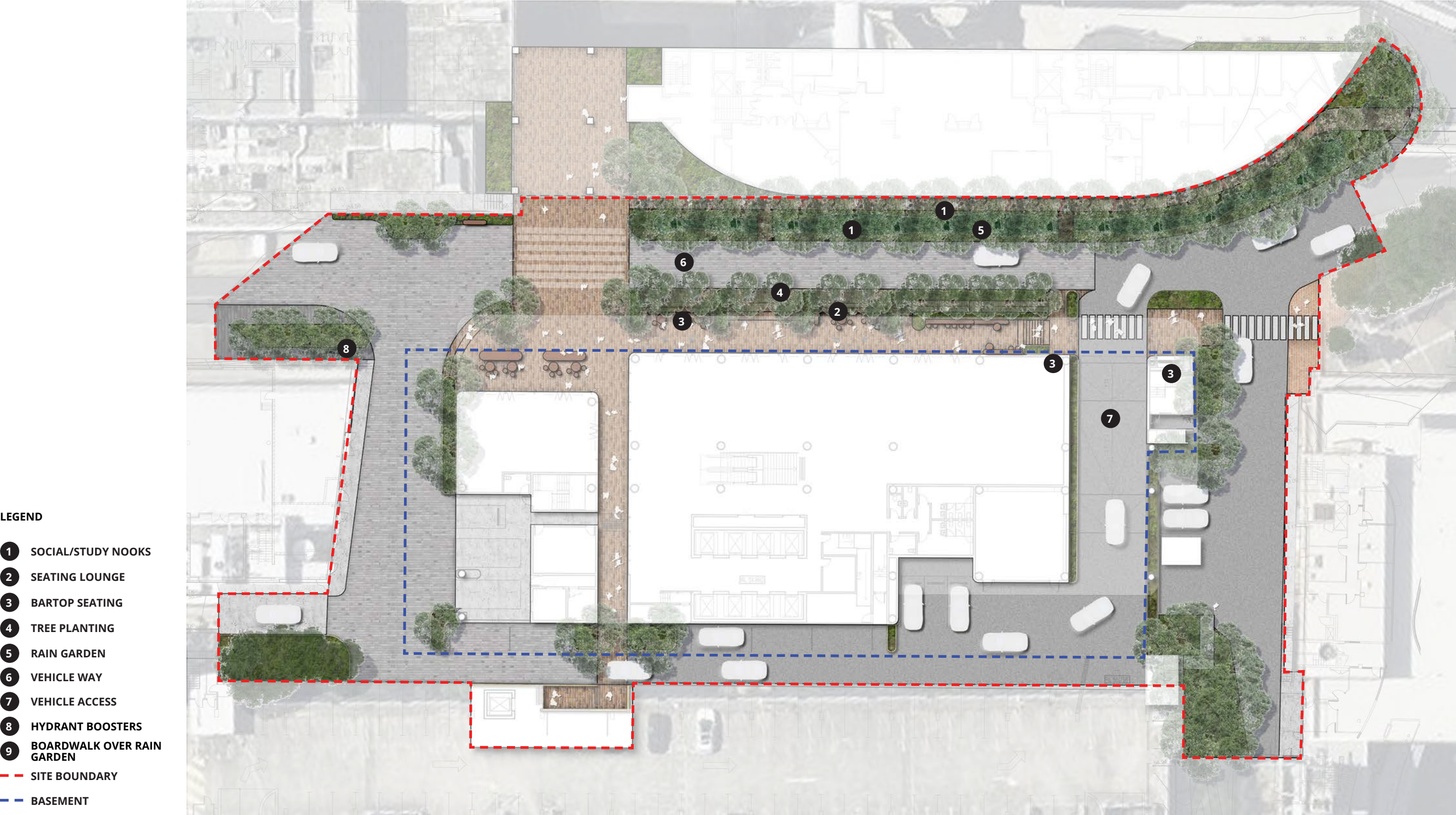
05 SDRP 2 RESPONSE



Artists Impression by Architectus

Landscape Masterplan

Landscape Design for SDRP 2 Response



Landscape Masterplan

SDRP 2 Response

CONNECTING WITH COUNTRY
2. Further progress the design response to best reflect the outcomes from engagement with the First Nations Community

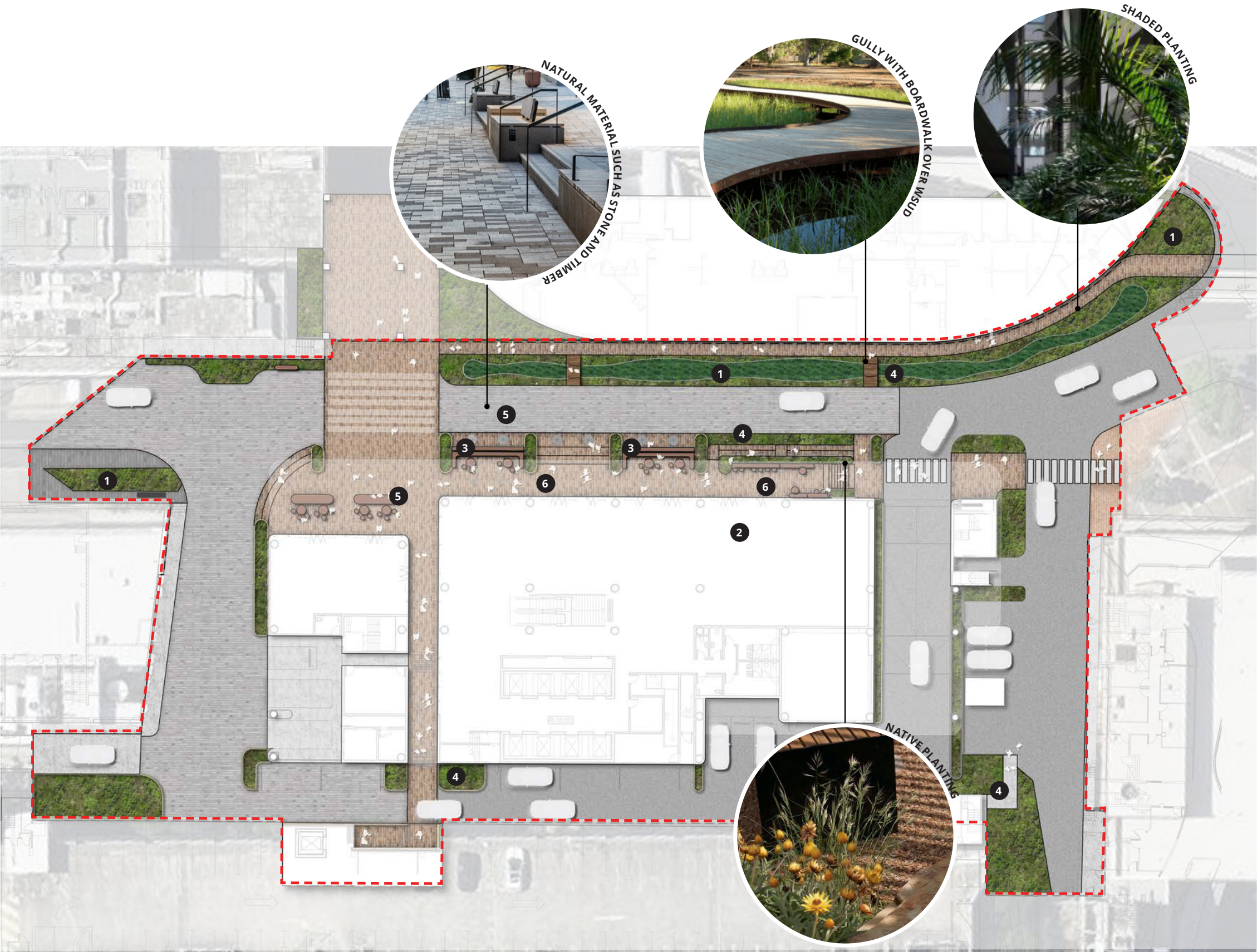
Response:
The landscape concept scheme has further considered the alignment with the outcomes of the CWC principles established in Yerrabingin’s CWC report. The following principles have been acknowledged and incorporated into our design process:

Connection to Bidjigal Kin: Considered vegetation to attract insects and bird life on the rooftop.

The Texture of Time: Allowed for appropriate planting in shaded areas and seasonal change and incorporated natural materials where possible that will gracefully age over the lifespan of the project.

A Welcome, Safe, and Respected Environment: Dedicated footpaths with clear way-finding and well protected spaces for study.

- LEGEND**
- 1 GULLY-LIKE VEGETATION
 - 2 PLANTING ON ROOF ATTRACT INSECT AND BIRD
 - 3 TIMBER MATERIALITY
 - 4 PLANTING TO SUITE SHADED ENVIRONMENT
 - 5 GRANITE AND NATURAL MATERIAL
 - 6 WELCOMING SPACE THAT’S OPEN AND SAFE



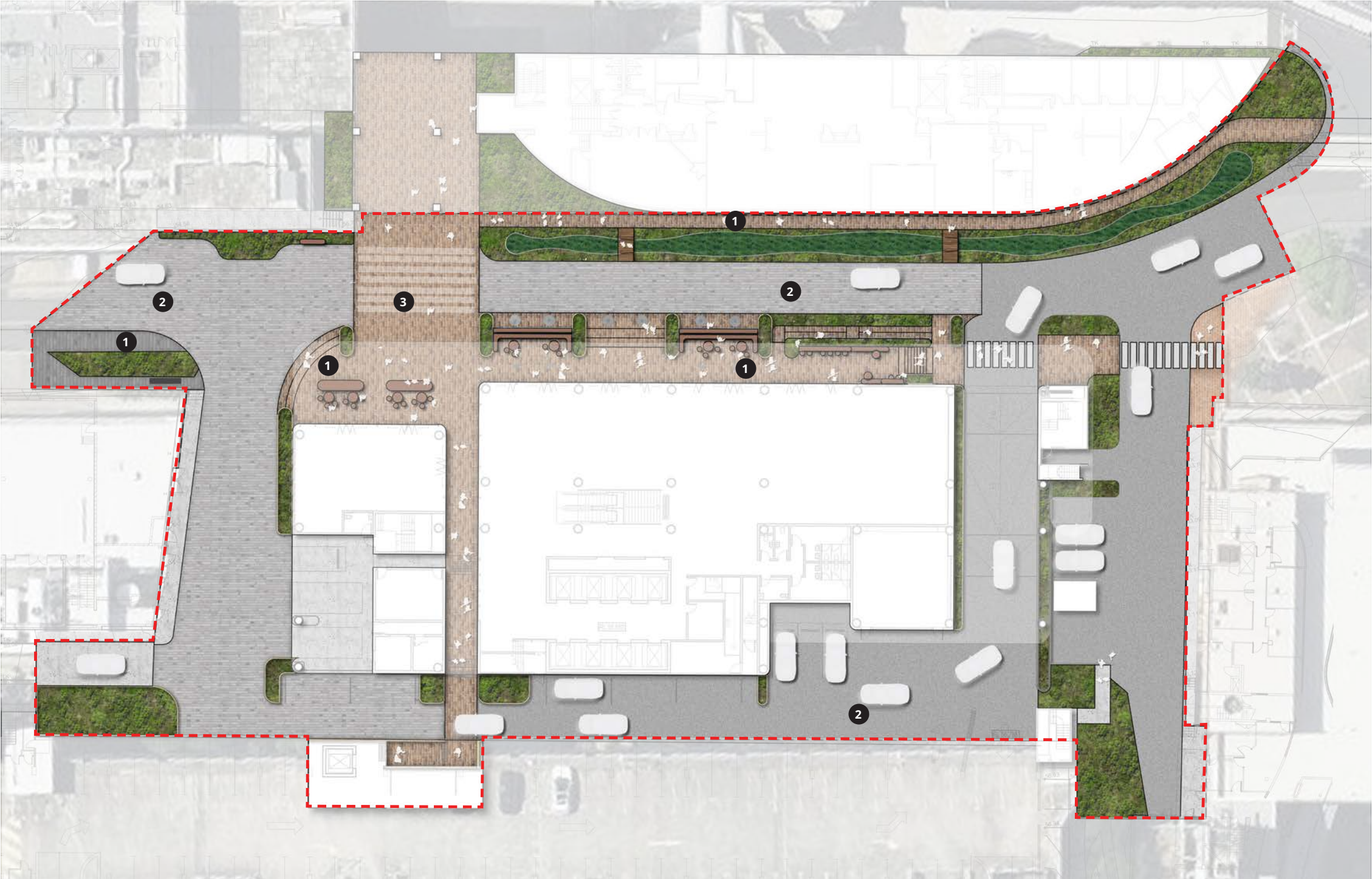
Landscape Masterplan

SDRP 2 Response

SITE STRATEGY AND LANDSCAPE

4.a Pursue opportunities to consolidate the separated pathway and planned shared roadway through providing consistent materiality.

Response:
The landscape scheme has been revised with an additional separated pedestrian walkway to the North of Library Walk, making the Library Walk roadway dedicated as a vehicle pathway. This revision has created a clear delineation between pedestrian and vehicle movements. At key crossing points, such as the connection to Chancellery Walk, distinct markings (e.g., different paving materials, colours, or elevated pedestrian crossings) have been considered.



LEGEND

- 1 PEDESTRIAN WALKWAYS
- 2 VEHICLE WAY OF TRAVEL
- 3 PEDESTRIAN PRIORITISED CROSSING



Landscape Masterplan

SDRP 2 Response

SITE STRATEGY AND LANDSCAPE
4.b Increase permeability across the street and provide more opportunities for landscape.

Response:
The landscape scheme increases the planting area along both sides of Library Walk/Road, focusing on connecting canopy trees and native understory planting. WSUD treatment will assist with water detention and promote biodiversity. Breaks between plantings are considered for north-south cross connections and the position of the breaks are well aligned with the pedestrian desire lines created by the new G25 building interface.



- LEGEND**
- 1 TREE GRATE FOR BETTER ACCESS
 - 2 RAISED PLANTER
 - 3 FLUSH PLANTING
 - 4 PROVIDE INFORMAL CONNECTION

Landscape Masterplan

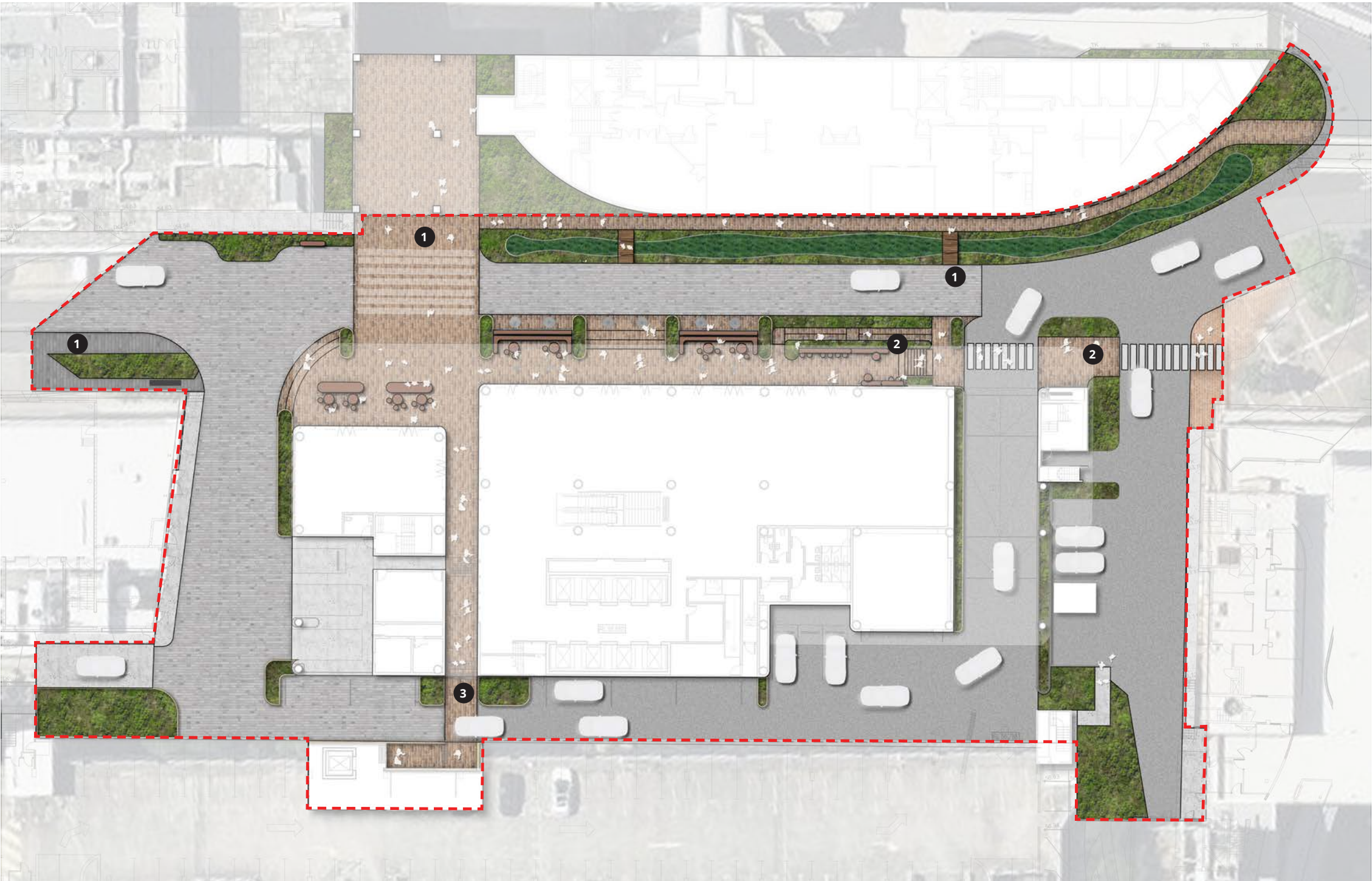
SDRP 2 Response

SITE STRATEGY AND LANDSCAPE

4.d Ensure planned upgrade to Library Walk is integrated with the wider Campus design strategy and way-finding network. Demonstrate that planned works connect to adjoining spaces, particularly Chancellery Walk beneath the Gordon and Jacqueline Samuels Building (F25) and around the SIRF Building (G23).

Response:

The landscape scheme has been revised to make the centre of Library Walk a dedicated roadway, allowing for integration with the existing roadways. There is now a clear delineation between vehicle and pedestrian movement. The materials have been chosen to provide a seamless transition between the new roads and the existing roadways they will connect to. We have retained pedestrian priority across from Chancellery Walk to facilitate safe pedestrian movement both north and south. Furthermore, we have added a dedicated pedestrian footpath along the north edge of Library Walk, while enriching the space with greenery and canopy trees along the footpaths to create a more cohesive and welcoming environment.



LEGEND

- 1 PAVING CONNECTING TO CHANCELLERY WALK
- 2 CLEAR DIRECT ACCESS TO GATE 11
- 3 CLEAR PAVING CONTINUITY TO CARPARK LIFT



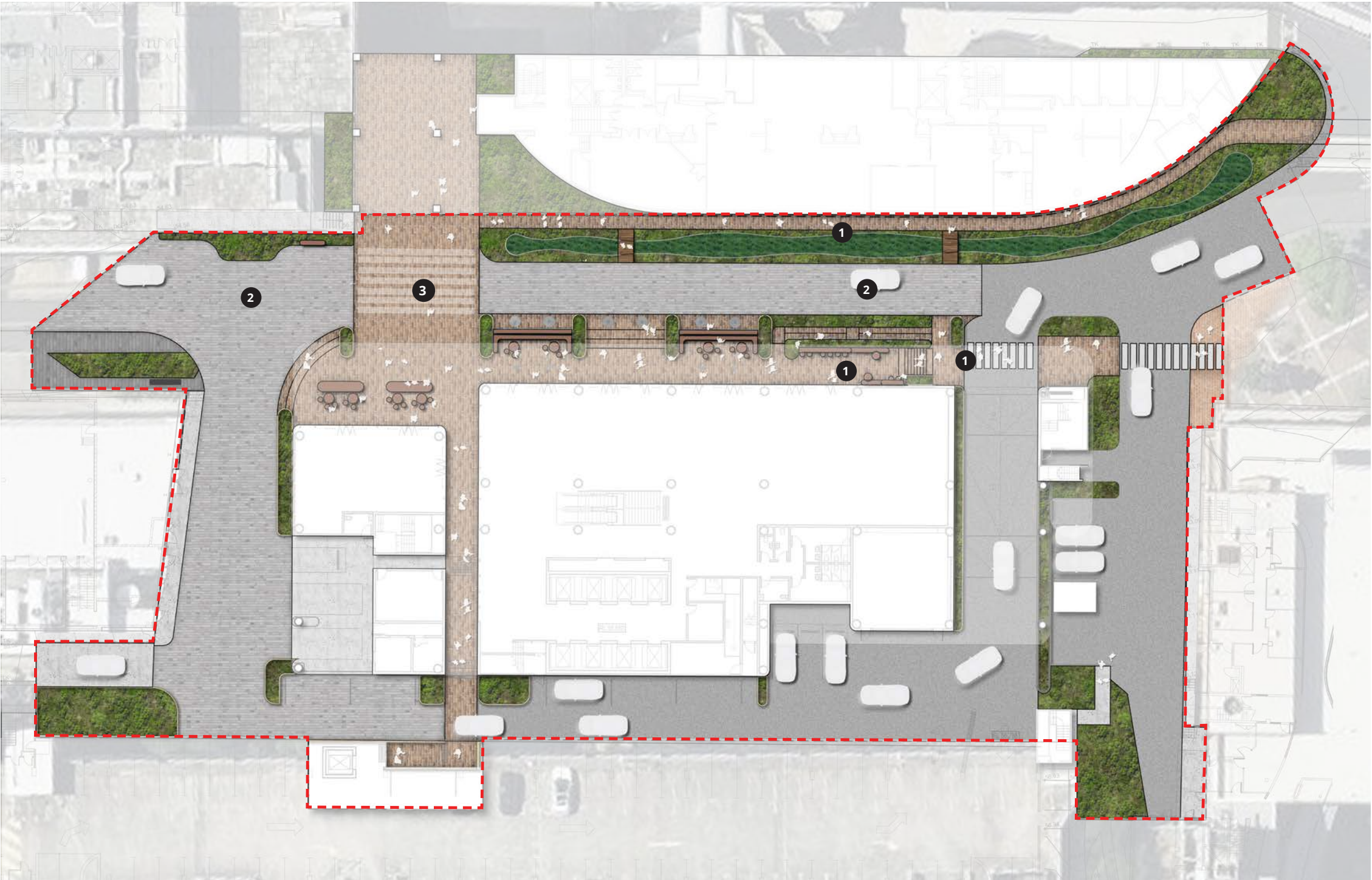
Landscape Masterplan

SDRP 2 Response

SITE STRATEGY AND LANDSCAPE

4.e Pursue opportunities to reduce vehicle movements along Library Walk. Prioritise pedestrians to deliver a legible, safe and slow traffic environment that enhances pedestrian amenity.

Response:
The revised landscape scheme now separates pedestrian and vehicle flow by providing distinct pathways along both sides of Library Walk/Road, making it easier for users to navigate the area with dedicated footpaths. Additionally, a clear material change demarcates the different modes of travel, highlighting key crossing points. The northern footpath is well separated by a WSUD treatment, and the southern footpath is slightly elevated from the vehicle pathway.



LEGEND

- 1 DIRECT PEDESTRIAN FLOW CLOSE TO BUILDING EDGE
- 2 CLEAR VEHICLE PATHWAY MATERIAL FOR LEGIBILITY
- 3 PEDESTRIAN CROSSING

Landscape Masterplan

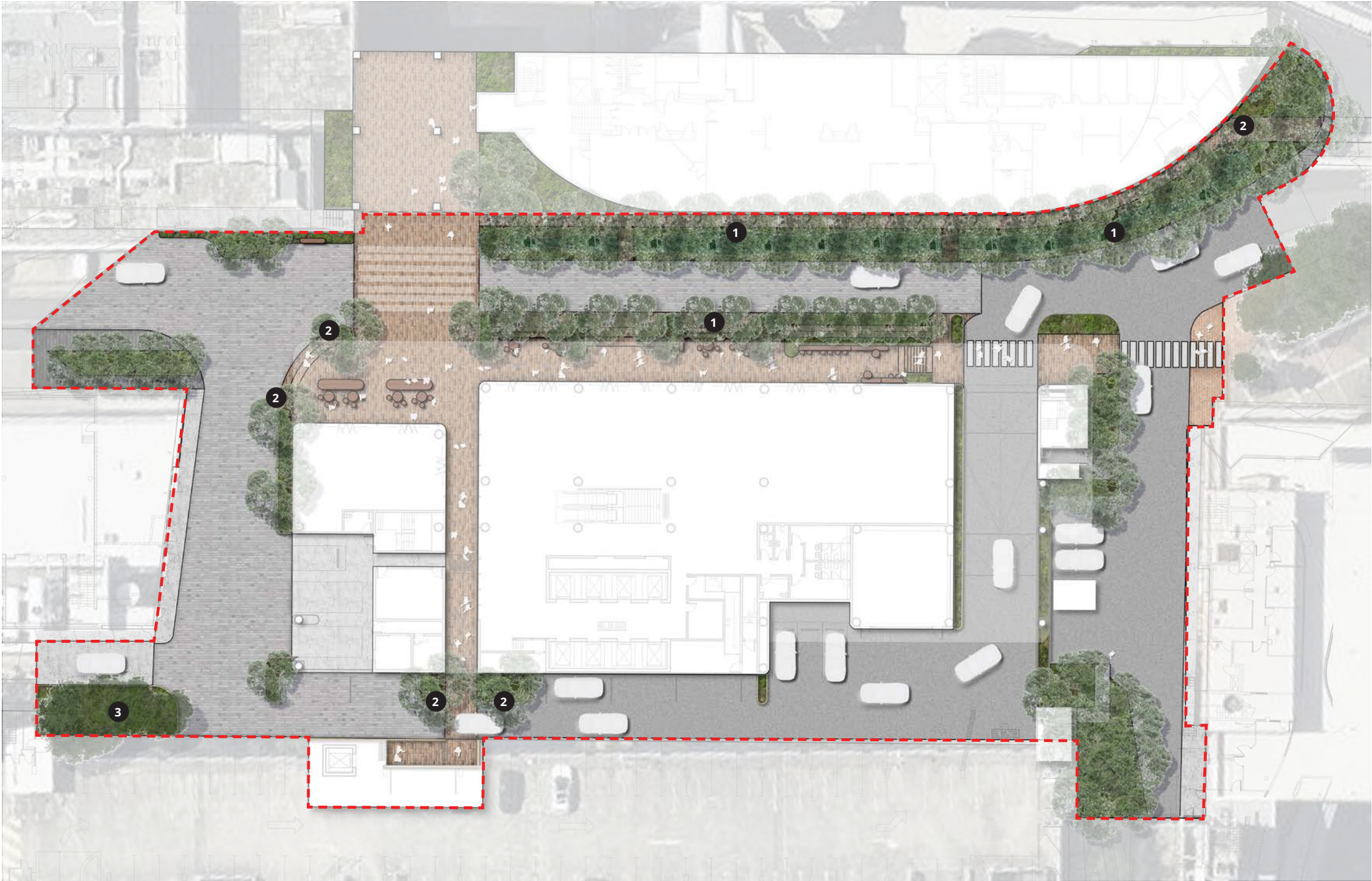
SDRP 2 Response

SITE STRATEGY AND LANDSCAPE

5. Reconsider the plan to remove all established trees along Library Walk, particularly the large trees along the north-west verge which are to be replaced with landscaping of a comparable scale.
6. Any proposal for tree removal should include an arborist report and demonstration that the trees are to be replaced with species of an equivalent size within the project area.

Response:

The revised landscape scheme considers the retention of the tree on the southwest corner of our site. New trees along Library Walk/Road have been carefully positioned to enhance canopy connectivity. The planting palette has been coordinated with arborist to ensure the new trees match the size and scale of those removed, using equivalent species to maintain the aesthetic and ecological benefits. Additionally, the current scheme incorporates input from our wind consultant, such as the addition of two trees on the southern side of the G25 building to help mitigate down-drafts. Additional trees are also proposed the north-west corner of our site to assist with westerly winds.



- LEGEND**
- 1 NEW TREE PROPOSED TO CREATE A STRONG CONNECTED CANOPY EXPERIENCE
 - 2 NEW TREE POSITION TO HELP WITH WIND MITIGATION
 - 3 EXISTING TREE RETAINED



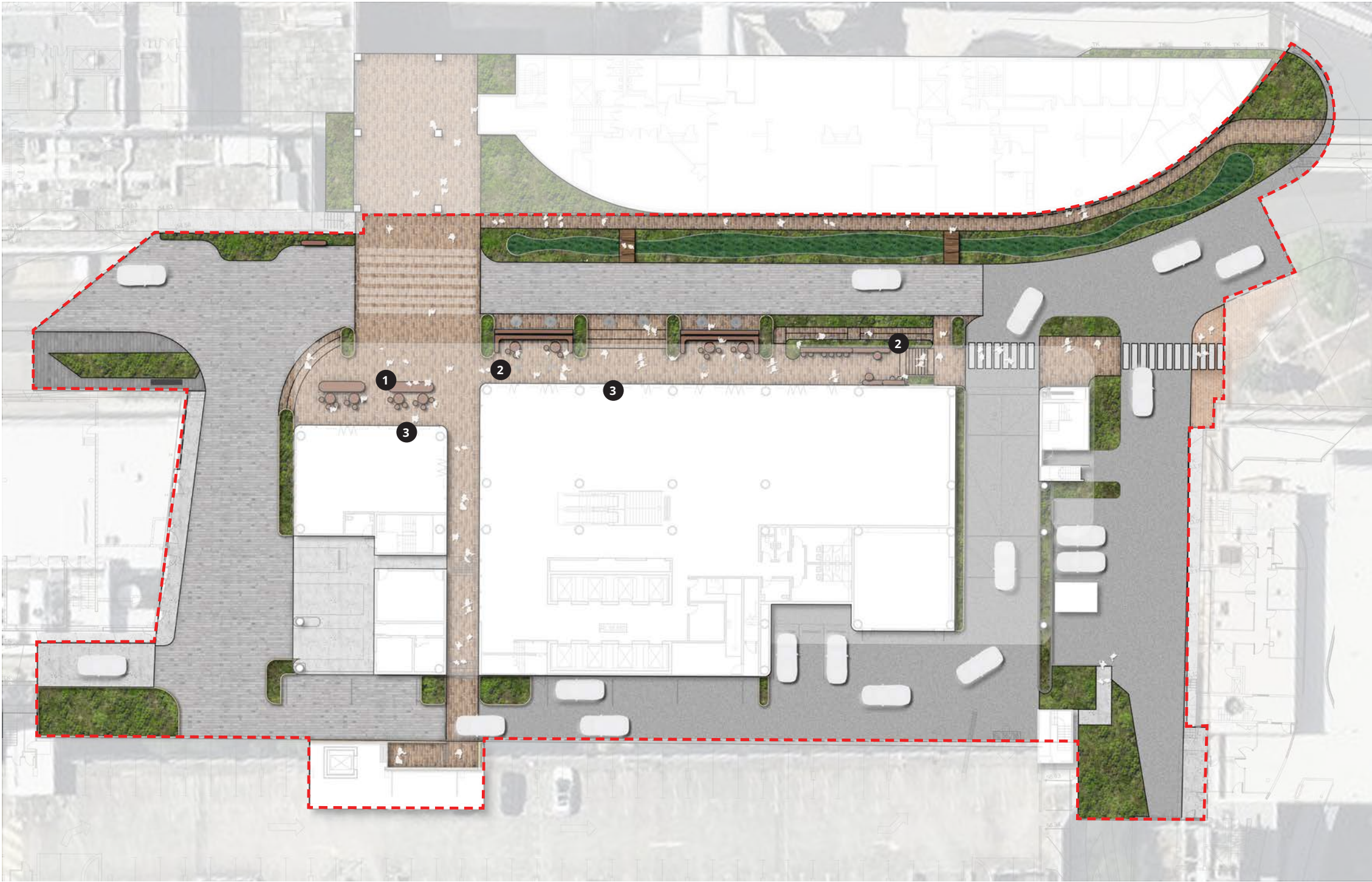
Landscape Masterplan

SDRP 2 Response

SITE STRATEGY AND LANDSCAPE

7.a Continue to develop the strategy for the public open space on north-west corner of the building. Consider: How this space can best function for students throughout the day, without the need to patronise the adjoining cafe.

Response:
The revised landscape scheme offers a larger, more generous under-croft area on the north-west corner of our new G25 building, improving the overall flow of space and providing a strong arrival experience. In addition, the expanded space creates a more flexible, multifunctional plaza that can be used for various purposes, enhancing the building's adaptability and creating a welcoming environment that can be tailored to different needs and events, without solely relying on cafe patronage.



LEGEND

- 1 FLEXIBLE FLAT SPACE FOR ACTIVATION
- 2 ACTIVATING SPACES WITH FURNITURES
- 3 OPERABLE FACADE FOR CONNECTED EXTERNAL / INTERNAL SPACES

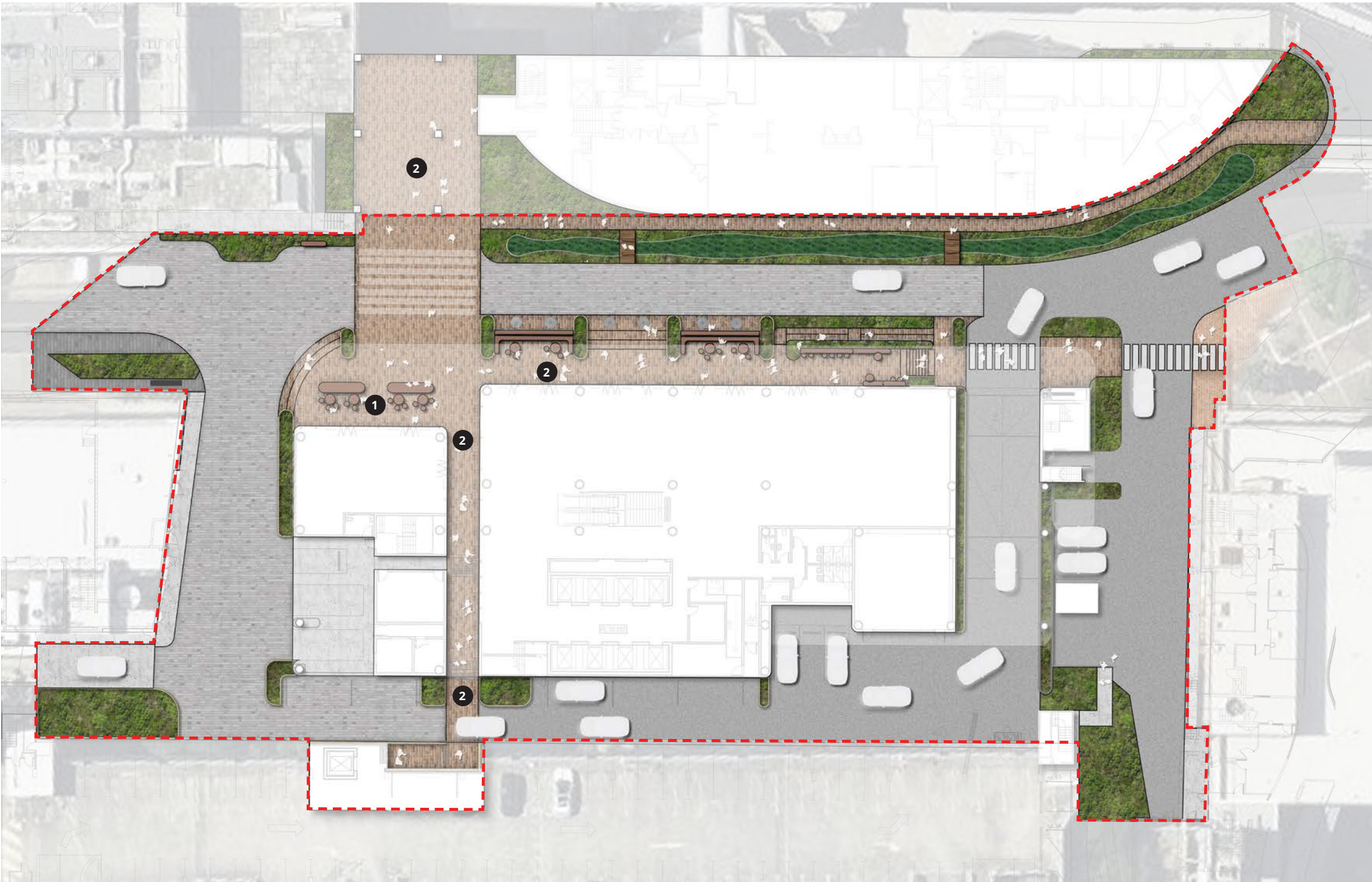


Landscape Masterplan

SDRP 2 Response

SITE STRATEGY AND LANDSCAPE
10.a Combining the arcade with the adjoining north-south shared street to make one continuous public realm.

Response:
The revised landscape scheme now brings the same materiality of the Chancellery Walk pedestrian connection into the north-south arcade and offers clear pedestrian movement and crossings all the way south, connecting to the carpark lift core. A unified material palette helps extend the feeling of public pedestrian priority spaces where needed, especially where pedestrian flow crosses vehicle movements.



- LEGEND**
- 1 FLEXIBLE SPACE
 - 2 CONNECTED SPACES

Landscape Masterplan

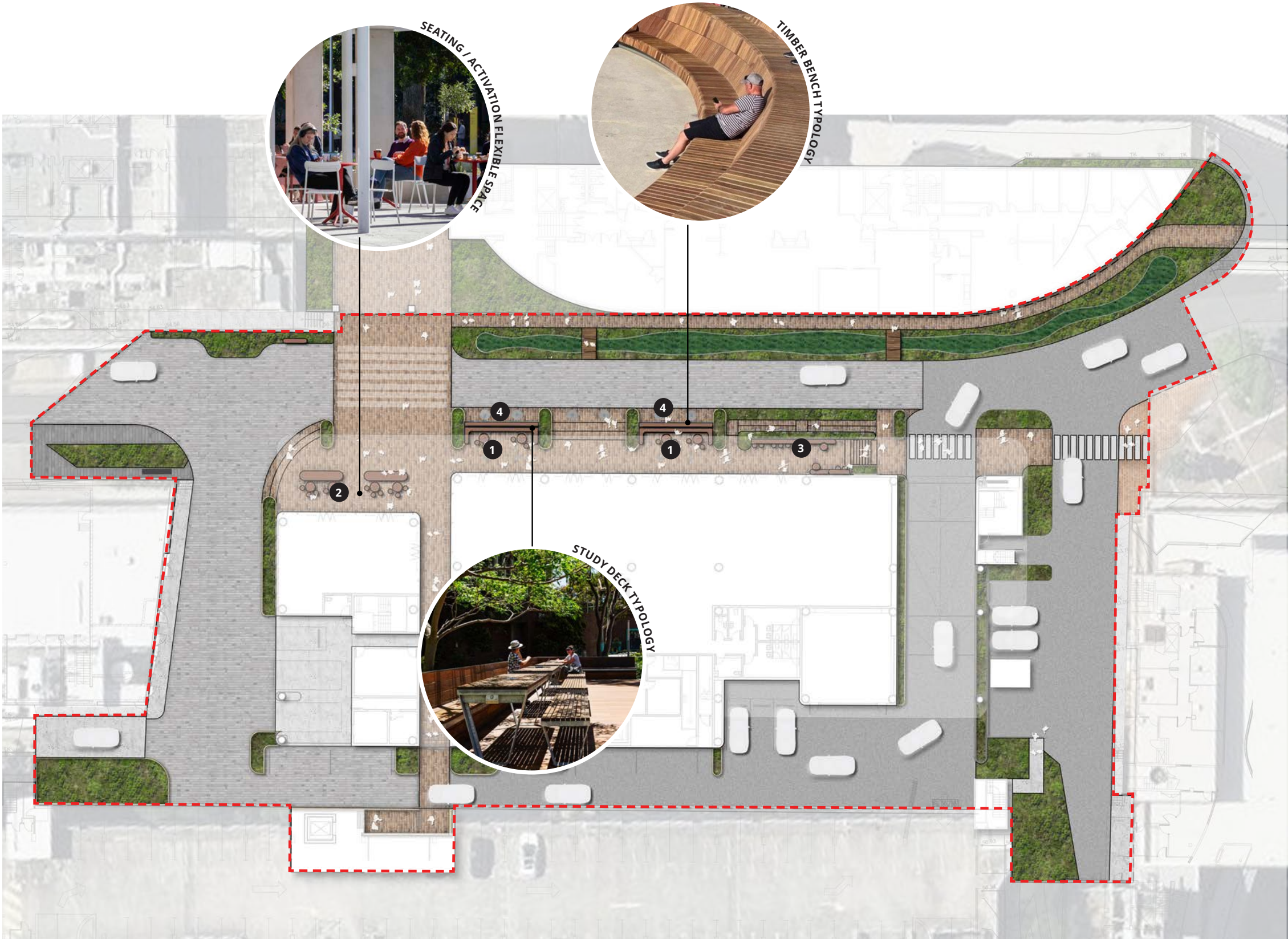
SDRP 2 response

SITE STRATEGY AND LANDSCAPE

10.d Programming the space with study nooks, break-out spaces, activities and so forth to ensure the space is activated and desirable.

Response:

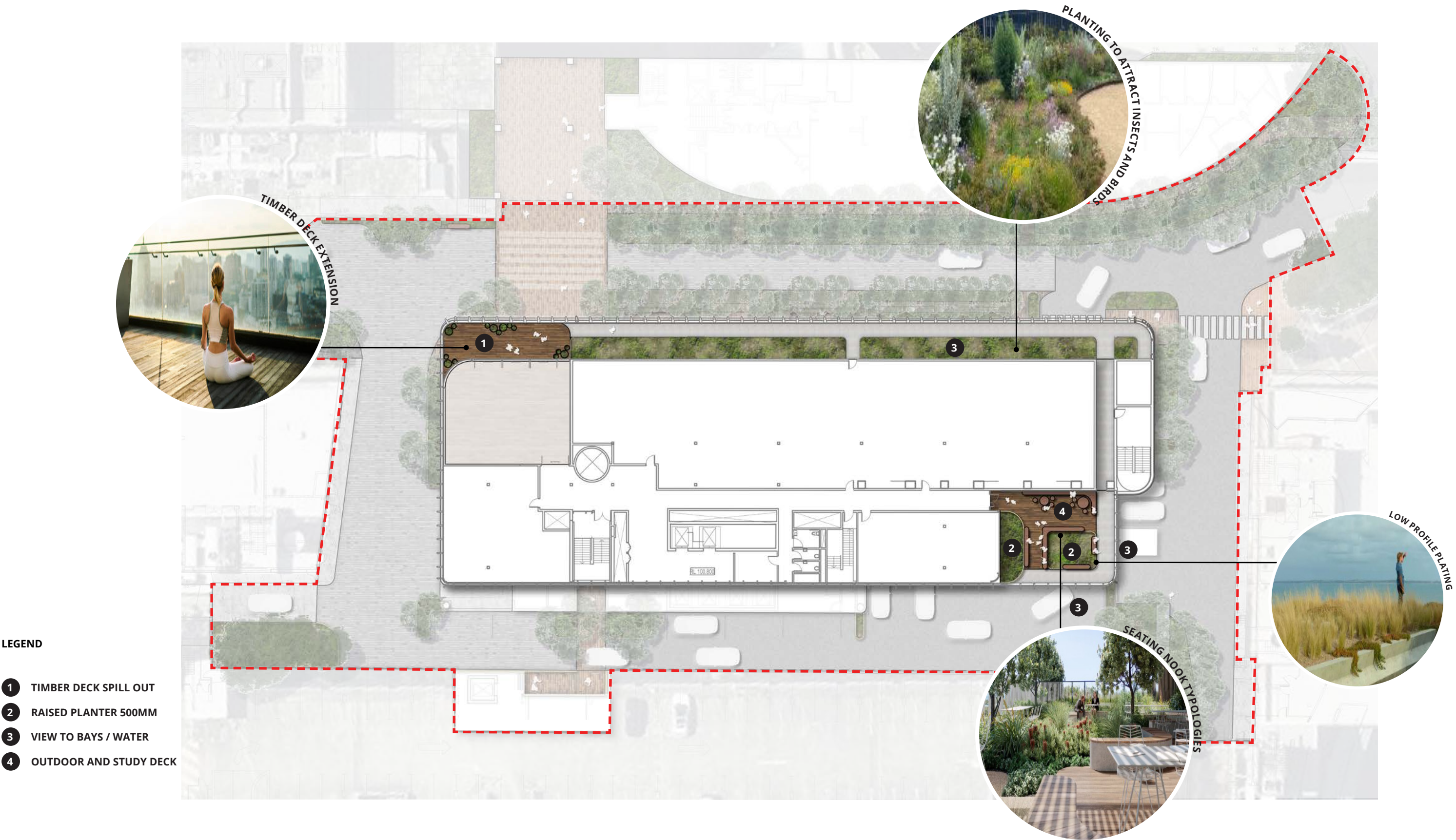
The revised landscape scheme focuses on creating varied study spaces closer to the northern facade of G25, promoting a seamless indoor and outdoor study opportunities. Different modes of study and social collaboration scenarios have been considered, such as formal study desks, individual workbenches, or more social seating areas. the revised scheme also removed the study pods on the northern side of Library Walk to make the space more dedicated to non-human kin, prioritizing safe pedestrian movement and ecological outcomes.



- LEGEND**
- 1 STUDY SEATING
 - 2 FLEXIBLE SEATING ZONE
 - 3 INFORMAL LINEAR SEATING
 - 4 TIMBER BENCH SEATING WITH BACKREST

Landscape Masterplan

Concept Design - SDRP 2 response



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UNSW G25 EDUCATION BUILDING

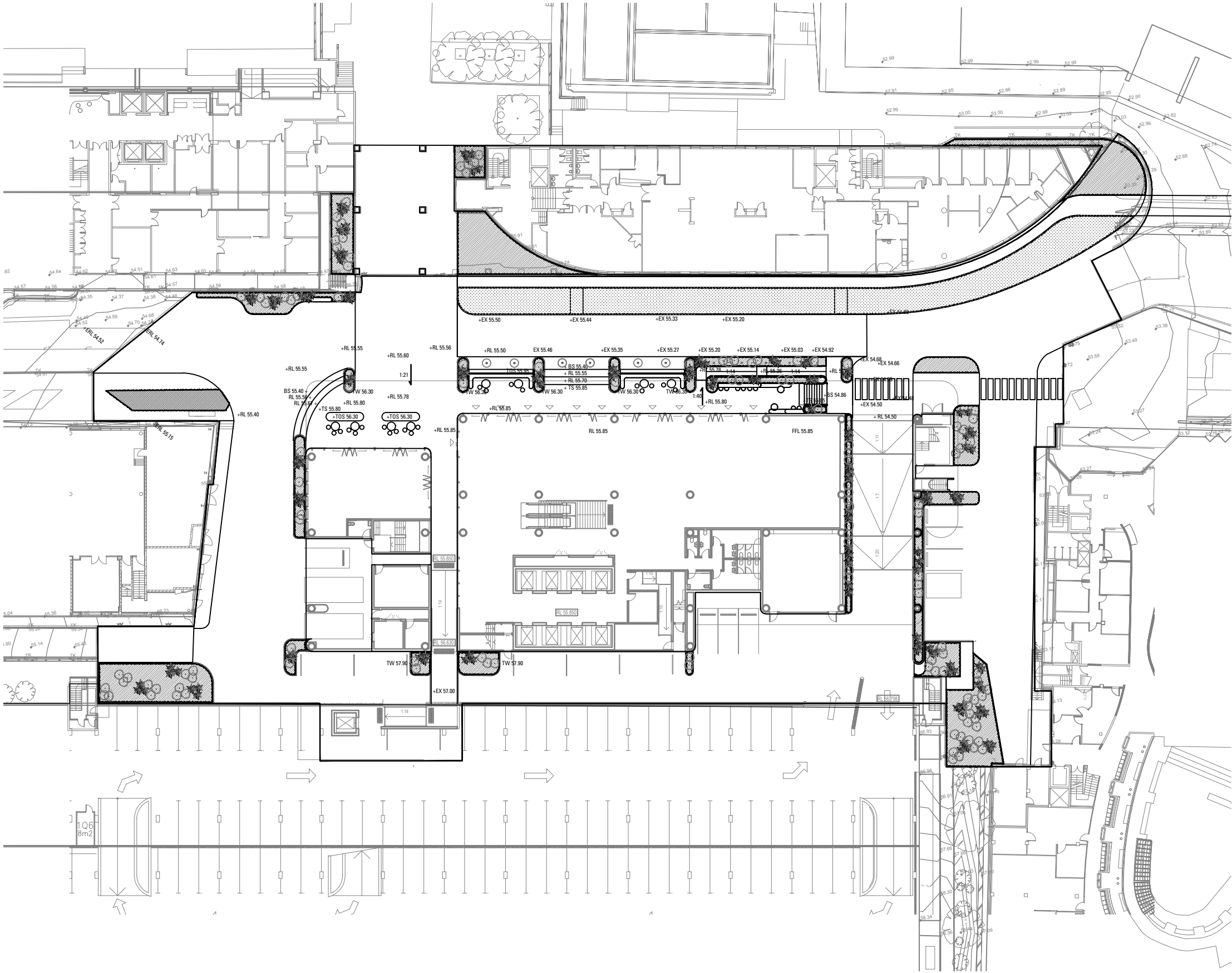
KENSINGTON, NSW

DRAWING SCHEDULE

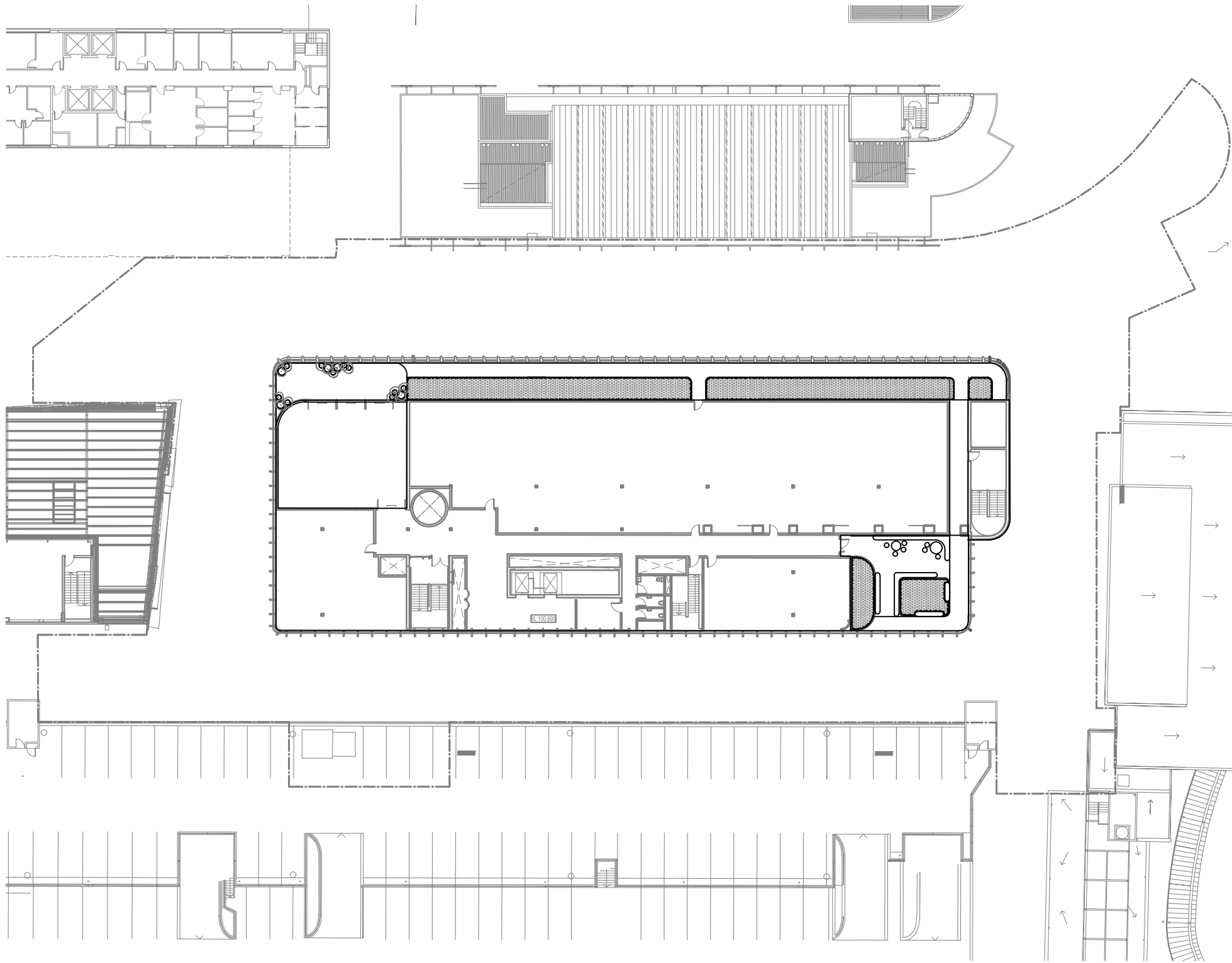
DRAWING NO.	DRAWING TITLE
000	COVER SHEET
101	LANDSCAPE MASTERPLAN
400	PLANTING SCHEDULE
401	SOFTWORKS PLAN GROUND FLOOR - SHEET 1
402	SOFTWORKS PLAN GROUND FLOOR - SHEET 2
403	SOFTWORKS PLAN GROUND FLOOR - SHEET 3
404	SOFTWORKS PLAN GROUND FLOOR - SHEET 4
405	SOFTWORKS PLAN ROOFTOP - SHEET 5
406	SOFTWORKS PLAN ROOFTOP - SHEET 6
600	LANDSCAPE DETAILS
700	LANDSCAPE SPECIFICATION

KEY PLAN

GROUND FLOOR
1:500 @ A1



ROOFTOP
1:500 @ A1



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DRAFT

C	SSDA	JS	QL	21.02.25	
B	SSDA DRAFT	JS	QL	17.02.25	
A	SSDA DRAFT	JS/CR	QL	10.02.25	
Issue	Revision	Description	Drawn	Check	Date

Not for Construction

Project

UNSW G25

SSDA DRAFT

Client
UNSW



Drawing No.	Drawing Name
L-000	COVER SHEET

Job No.	24-1045
Issue	C
Scale	



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ARCADIA

24-1045 - UNSW G25 EDUCATION BUILDING

CODE	BOTANIC NAME	COMMON NAME	MATURE SIZE (h x w) (m)	PROPOSED POT SIZE	DENSITY	QUANTITY
GROUND FLOOR						
TREES, PALMS & TREE FERNS						
Can	<i>Cupaniopsis anacardioides</i>	Tuckeroo	5-8 x 5-10	200L	AS SHOWN	17
Cau	<i>Cyathea australis</i>	Rough Tree Fern	4-10 x 2-4	200L	AS SHOWN	13
Cco	<i>Cyathea cooperi</i>	Lacy Tree Fern	5 x 3	200L	AS SHOWN	19
Dan	<i>Dicksonia antarctica</i>	Tree Fern	6 x 3	200L	AS SHOWN	8
Ere	<i>Elaeocarpus reticulatus</i>	Blueberry Ash	9 x 4	200L	AS SHOWN	7
Fau	<i>Flindersia australis</i>	Crow's Ash	8-12 x 5-7	200L	AS SHOWN	11
Spa	<i>Syzygium paniculatum</i>	Lilly Pilly	15 x 10	200L	AS SHOWN	5
Tba	<i>Todea barbara</i>	King Fern	3 x 2	200L	AS SHOWN	16
Wfl	<i>Waterhousia floribunda</i>	Weeping Lilly Pilly	10 x 8	200L	AS SHOWN	17
FERNS						
Aau	<i>Asplenium australasicum</i>	Birds Nest Fern	1.5 x 1.5	300mm	AS SHOWN	44
Bca	<i>Blechnum cartilagineum</i>	Gristle Fern	1 x 1	300mm	AS SHOWN	44
Bgs	<i>Blechnum gibbum</i> 'Silver Lady'	Silver Lady	1.2 x 1	300mm	AS SHOWN	44
SHADE SHRUBS						
Abr	<i>Alocasia brisbanensis</i>	Elephants Ear	1.5 x 2	400mm	AS SHOWN	24
Acr	<i>Alpinia caerulea</i> 'Redback'	Native Ginger	2 x 1	300mm	AS SHOWN	24
Anu	<i>Alpinia nutans</i>	Dwarf Cardamon	1.5 x 1	300mm	AS SHOWN	24
Cst	<i>Cordyline stricta</i>	Narrow Leaf Palm Lily	4 x 2	300mm	AS SHOWN	24
Cpe	<i>Crinum pedunculatum</i>	Swamp Lily	3 x 3	300mm	AS SHOWN	24
MATRIX 1: WATER SENSITIVE URBAN DESIGN					TOTAL:	270M2
Bar	<i>Baumea articulata</i>	Jointed Rush	1.5 x 1	200mm	6/m2	85
Cap	<i>Carex appressa</i>	Tall Sedge	1 x 1	200mm	6/m2	85
Dca	<i>Dianella caerulea</i>	Blue Flax Lily	1 x 1	200mm	6/m2	85
Dre	<i>Dianella revoluta</i>	Blueberry Lily	0.6 x 0.8	200mm	6/m2	85
Dta	<i>Dianella tasmanica</i>	Tasmanian Flax Lily	0.8 x 0.8	200mm	6/m2	85
Fno	<i>Ficinia nodosa</i>	Knobby Club Rush	1 x 0.5	200mm	6/m2	85
Gcl	<i>Gahnia clarkei</i>	Tall Saw Sedge	2 x 1.5	200mm	3/m2	43
Gsi	<i>Gahnia sieberiana</i>	Red Fruit Saw Sedge	2 x 2.5	200mm	3/m2	43
Icy	<i>Imperata cylindrica</i>	Cogon Grass	0.5 x 0.5	200mm	6/m2	85
Jkr	<i>Juncus kraussii</i>	Salt Marsh Rush	0.8 x 1	200mm	6/m2	85
Lfi	<i>Lomandra filiformis</i>	Wattle Mat Rush	0.5 x 0.3	200mm	6/m2	85
Llo	<i>Lomandra longifolia</i>	Spiny Head Mat Rush	1.2 x 1	200mm	6/m2	85
Lli	<i>Lomandra longifolia</i> 'Lime Tuff'	Mat Rush	0.6 x 0.6	200mm	6/m2	85
Mst	<i>Microlaena stipoides</i>	Weeping Grass	0.3 x 0.3	200mm	6/m2	85
Pal	<i>Pennisetum alopecuroides</i> 'Pennstripe'	Swamp Foxtail Grass	0.5 x 0.8	200mm	6/m2	85
Paf	<i>Poa affinis</i>	Poa	1 x 1	200mm	6/m2	85
Pla	<i>Poa labillardieri</i> 'Eskdale'	Tussock Grass	1 x 0.5	200mm	6/m2	85
Psi	<i>Poa sieberiana</i>	Blue Tussock Grass	1 x 0.6	200mm	6/m2	85
Tau	<i>Themeda australis</i>	Kangaroo Grass	1.2 x 0.5	200mm	6/m2	85
MATRIX 2: GULLY PLANTING					TOTAL:	520
Aae	<i>Adiantum aethiopicum</i>	Maidenhair Fern	0.3 x 0.3	200mm	6/m2	208
Bsc	<i>Billardiera scandens</i>	Apple Berry	1.5 x 3	200mm	6/m2	208
Dca	<i>Dianella caerulea</i>	Blue Flax Lily	1 x 1	200mm	6/m2	208
Dre	<i>Dichondra repens</i>	Kidney Weed	0.3 x 5	200mm	6/m2	208
Das	<i>Doodia aspera</i>	Prickly Rasp Fern	0.4 x 0.6	300mm	6/m2	208
Fno	<i>Ficinia nodosa</i>	Knobby Club Rush	1 x 0.5	200mm	6/m2	208
Gcl	<i>Gahnia clarkei</i>	Tall Saw Sedge	2 x 1.5	200mm	3/m2	104
Hvi	<i>Hardenbergia violacea</i>	Native Sarsaparilla	5 x 3	200mm	6/m2	208
Hsc	<i>Hibbertia scandens</i>	Guinea Flower	3 x 5	200mm	6/m2	208
Lfi	<i>Lomandra filiformis</i>	Wattle Mat Rush	0.5 x 0.3	200mm	6/m2	208
Lli	<i>Lomandra longifolia</i> 'Lime Tuff'	Mat Rush	0.6 x 0.6	200mm	6/m2	208
Mdi	<i>Microsorium diversifolium</i>	Kangaroo Fern	0.3 x 0.5	200mm	6/m2	208
Ppa	<i>Plectranthus parviflorus</i>	Spur Flower	0.5 x 0.4	200mm	6/m2	208
Ptr	<i>Pteris tremula</i>	Tender Brakefern	2 x 1.5	200mm	6/m2	208
Vhe	<i>Viola hederacea</i>	Native Violet	0.2 x 1	200mm	6/m2	208
ROOFTOP						
SHADE SHRUBS						
Csa	<i>Crovea saligna</i> 'Rosy Glow'	Crovea	1 x 1	300mm	AS SHOWN	8
Mth	<i>Melaleuca thymifolia</i>	Honey Myrtle	1.2 x 2	300mm	AS SHOWN	7
MATRIX 3: ROOFTOP GRASSES & GROUNDCOVERS					TOTAL	175
Bsc	<i>Billardiera scandens</i>	Apple Berry	1.5 x 3	200mm	6/m2	105
Dca	<i>Dianella caerulea</i>	Blue Flax Lily	1 x 1	200mm	6/m2	105
Dre	<i>Dichondra repens</i>	Kidney Weed	0.3 x 5	200mm	6/m2	105
Gcl	<i>Gahnia clarkei</i>	Tall Saw Sedge	2 x 1.5	200mm	3/m2	53
Lfi	<i>Lomandra filiformis</i>	Wattle Mat Rush	0.5 x 0.3	200mm	6/m2	105
Lli	<i>Lomandra longifolia</i> 'Lime Tuff'	Mat Rush	0.6 x 0.6	200mm	6/m2	105
Ppa	<i>Plectranthus parviflorus</i>	Spur Flower	0.5 x 0.4	200mm	6/m2	105
Paf	<i>Poa affinis</i>	Poa	1 x 1	200mm	6/m2	105
Psi	<i>Poa sieberiana</i>	Blue Tussock Grass	1 x 0.6	200mm	6/m2	105
Vhe	<i>Viola hederacea</i>	Native Violet	0.2 x 1	200mm	6/m2	105

DRAFT

C	SSDA	JS	QL	21.02.25	
B	SSDA DRAFT	JS	QL	17.02.25	
A	SSDA DRAFT	JS/CR	QL	10.02.25	
Issue	Revision	Description	Drawn	Check	Date

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L-400 PLANT SCHEDULE

Job No. 24-1045
Issue C
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SOFTWARES LEGEND

TREE PLANTING

- CUPANIOPSIS ANACARDIOIDES
- CYATHEA AUSTRALIS
- CYATHEA COOPERI
- DICKSONIA ANTARCTICA
- ELAEOCARPUS RETICULATUS
- FLINDERSIA AUSTRALIS
- SYZYGIVM PANICULATUS
- TODEA BARBARA
- WATERHUSIA FLORIBUNDA

SHRUBS

- FERNS
- SHRUBS

MATRICES

- MATRIX 1: WATER SENSITIVE URBAN DESIGN
- MATRIX 2: GULLY PLANTING
- MATRIX 3: ROOFTOP GRASSES & GROUNDCOVERS
- EXISTING PLANTING TO BE RETAINED & MAKE GOOD

DRAFT

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Drawing No.

L-401

Drawing Name

SOFTWARES PLAN
GROUND FLOOR - SHEET 1

Job No.

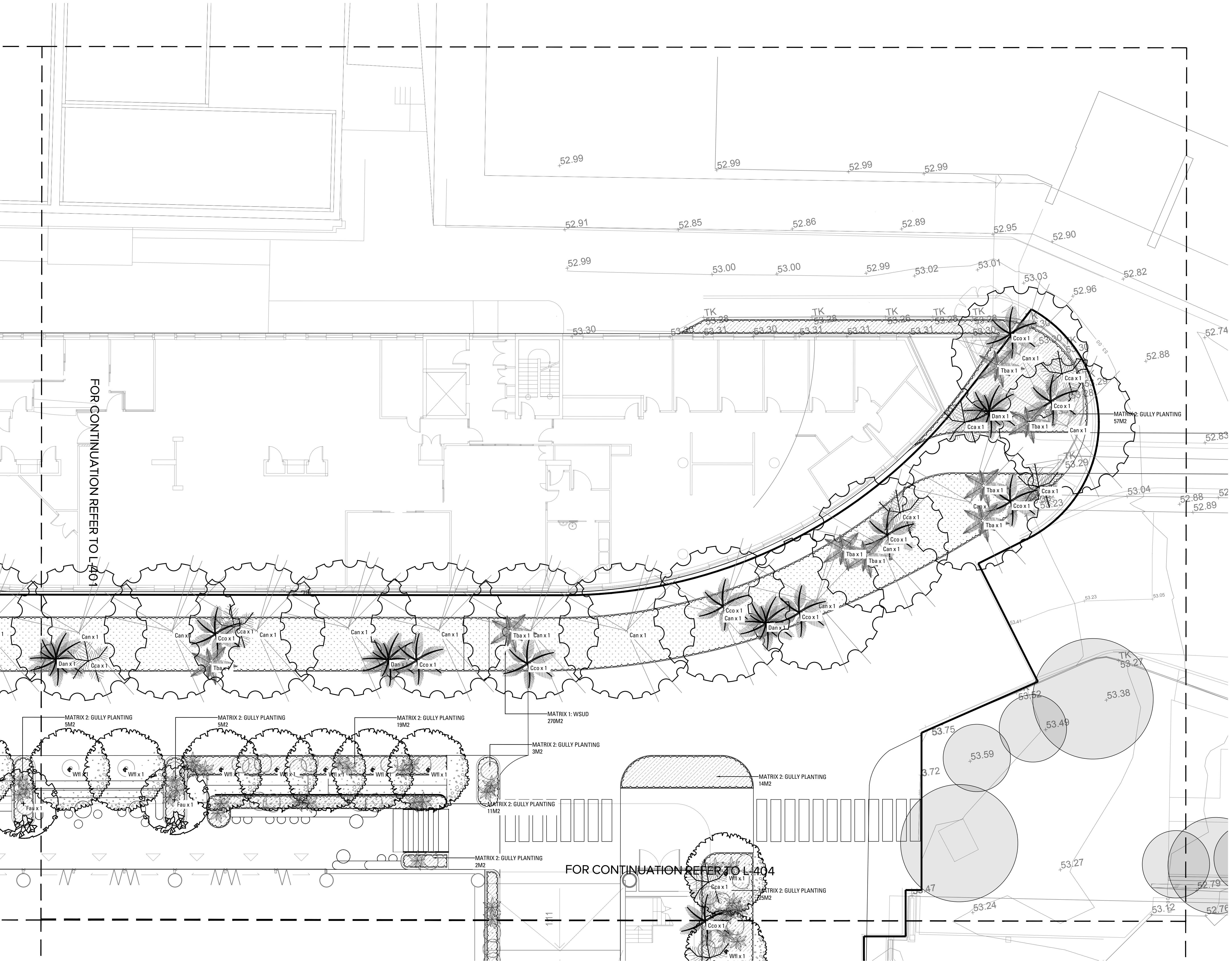
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FOR CONTINUATION REFER TO L-404

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- SOFTWORKS LEGEND**
- TREE PLANTING**
- CUPANIOPSIS ANACARDIOIDES
 - CYATHEA AUSTRALIS
 - CYATHEA COOPERI
 - DICKSONIA ANTARCTICA
 - ELAEOCARPUS RETICULATUS
 - FLINDERSIA AUSTRALIS
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DRAFT

C	SSDA	JS	QL	21.02.25
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A	SSDA DRAFT	JS/CR	QL	10.02.25
Issue	Revision Description	Drawn	Check	Date

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SSDA DRAFT

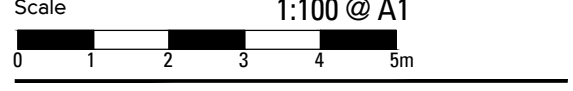
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Drawing No. L-402 Drawing Name SOFTWORKS PLAN GROUND FLOOR - SHEET 2

Job No. 24-1045 Issue C

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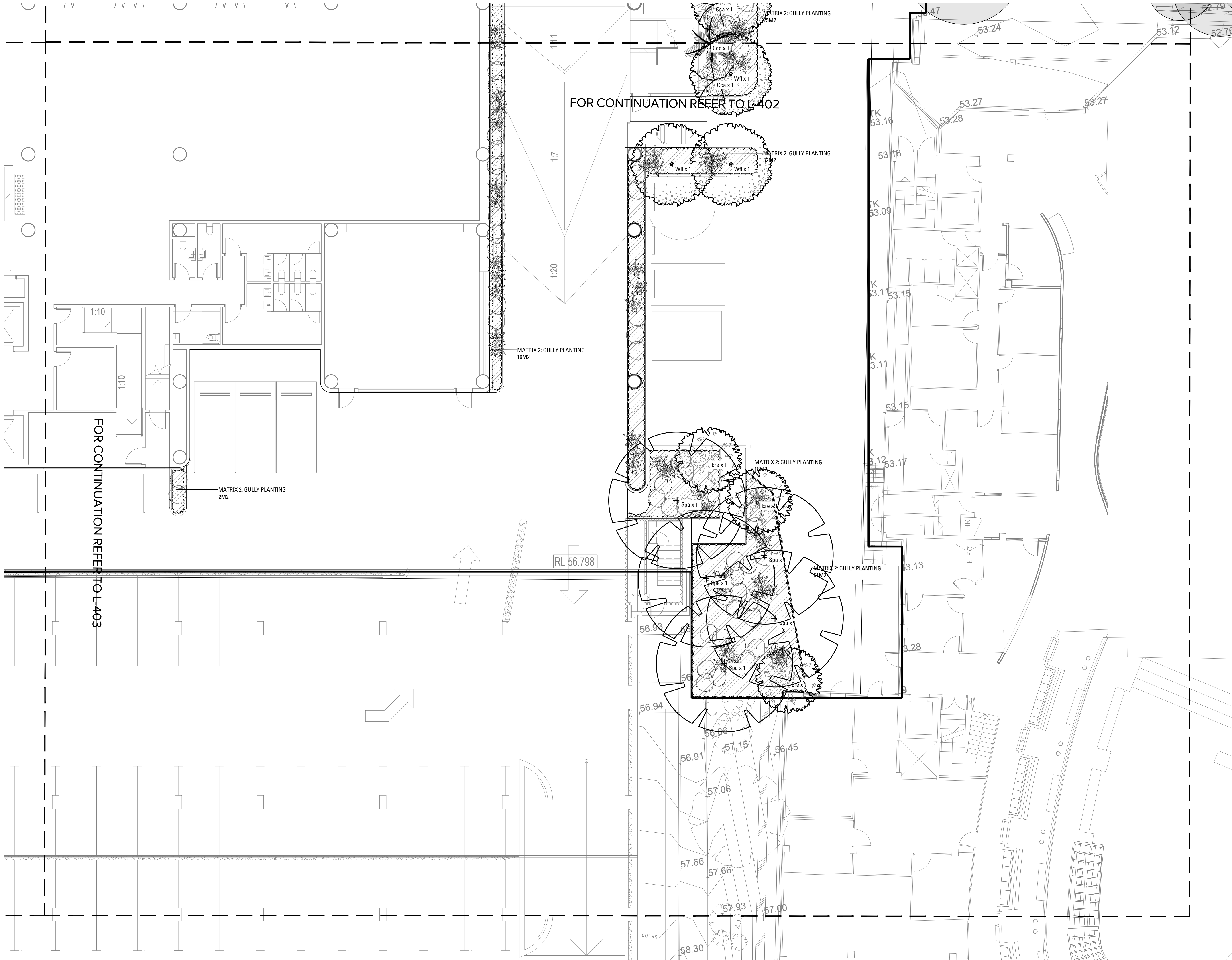


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SOFTWORKS LEGEND

TREE PLANTING

- CUPANIOPSIS ANACARDIOIDES
- CYATHEA AUSTRALIS
- CYATHEA COOPERI
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Drawing No. Drawing Name

L-404 SOFTWORKS PLAN
GROUND FLOOR - SHEET 4

Job No. 24-1045

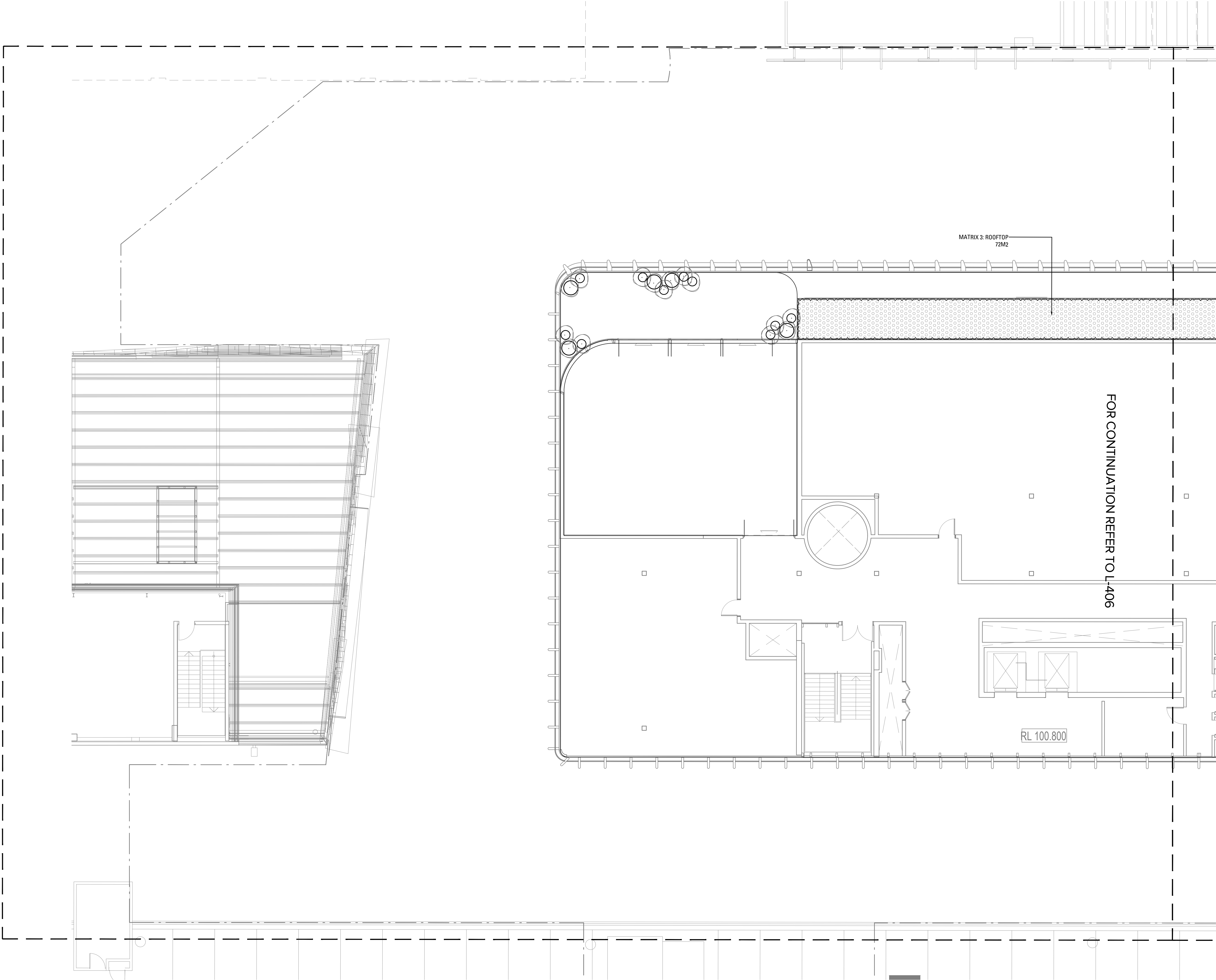
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TREE PLANTING

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SHRUBS

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- SHRUBS

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C	SSDA	JS	QL	21.02.25
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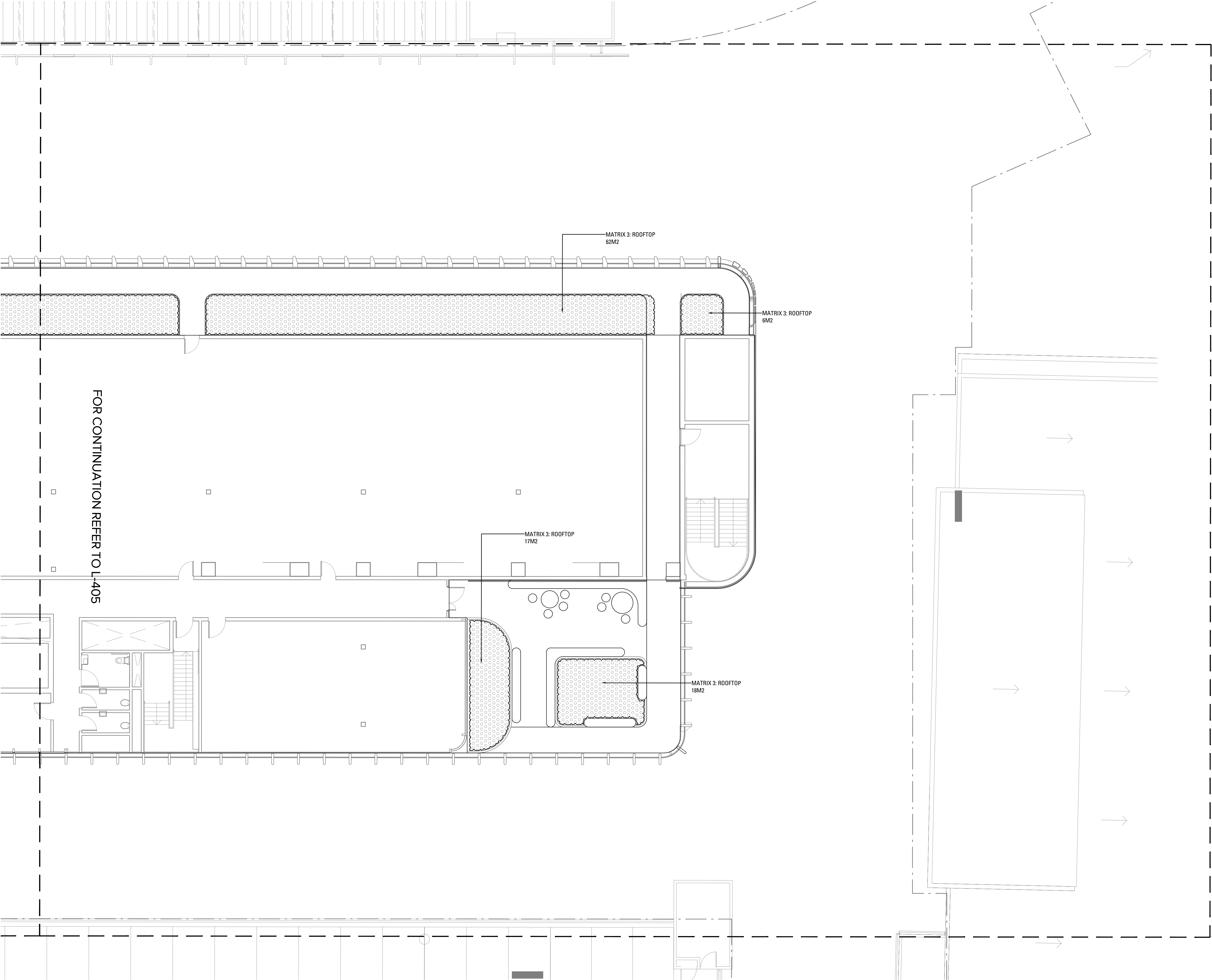


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L-405 SOFTWORKS PLAN
ROOFTOP - SHEET 5

Job No. 24-1045
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SOFTWORKS LEGEND

TREE PLANTING

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- TODEA BARBARA
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SHRUBS

- FERNS
- SHRUBS

MATRICES

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Drawing No.

Drawing Name

L-406

SOFTWORKS PLAN
ROOFTOP - SHEET 6

Job No.

24-1045

Issue

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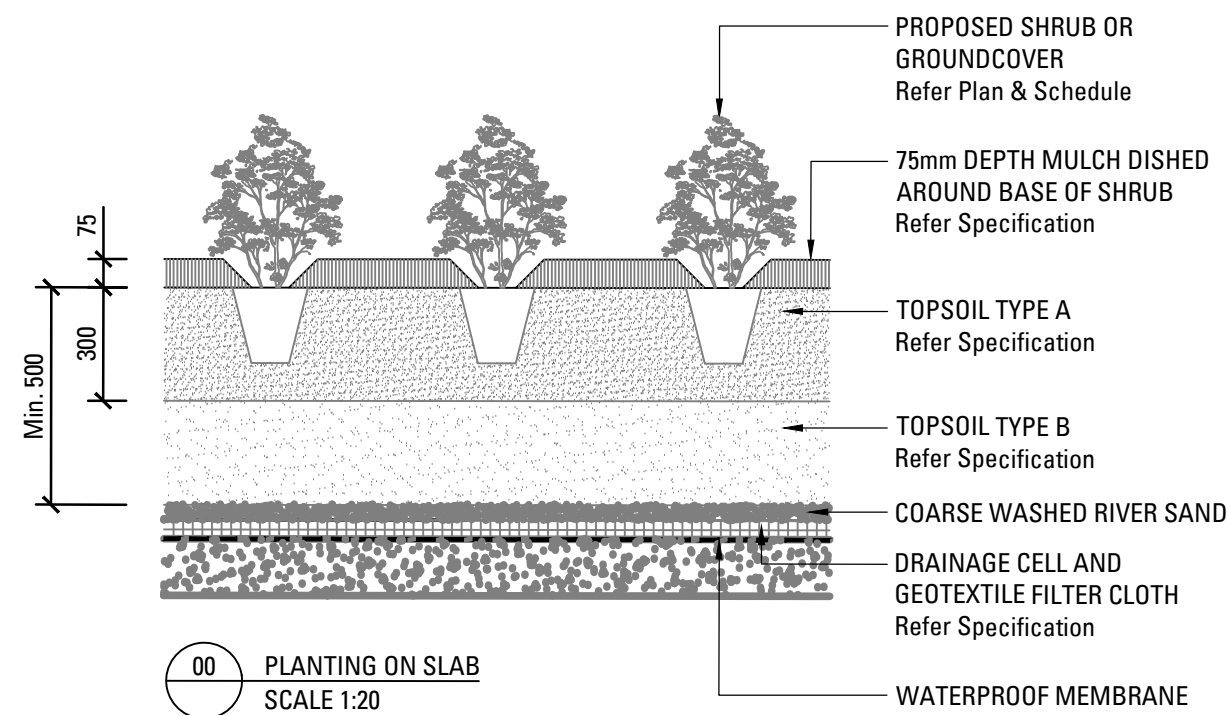
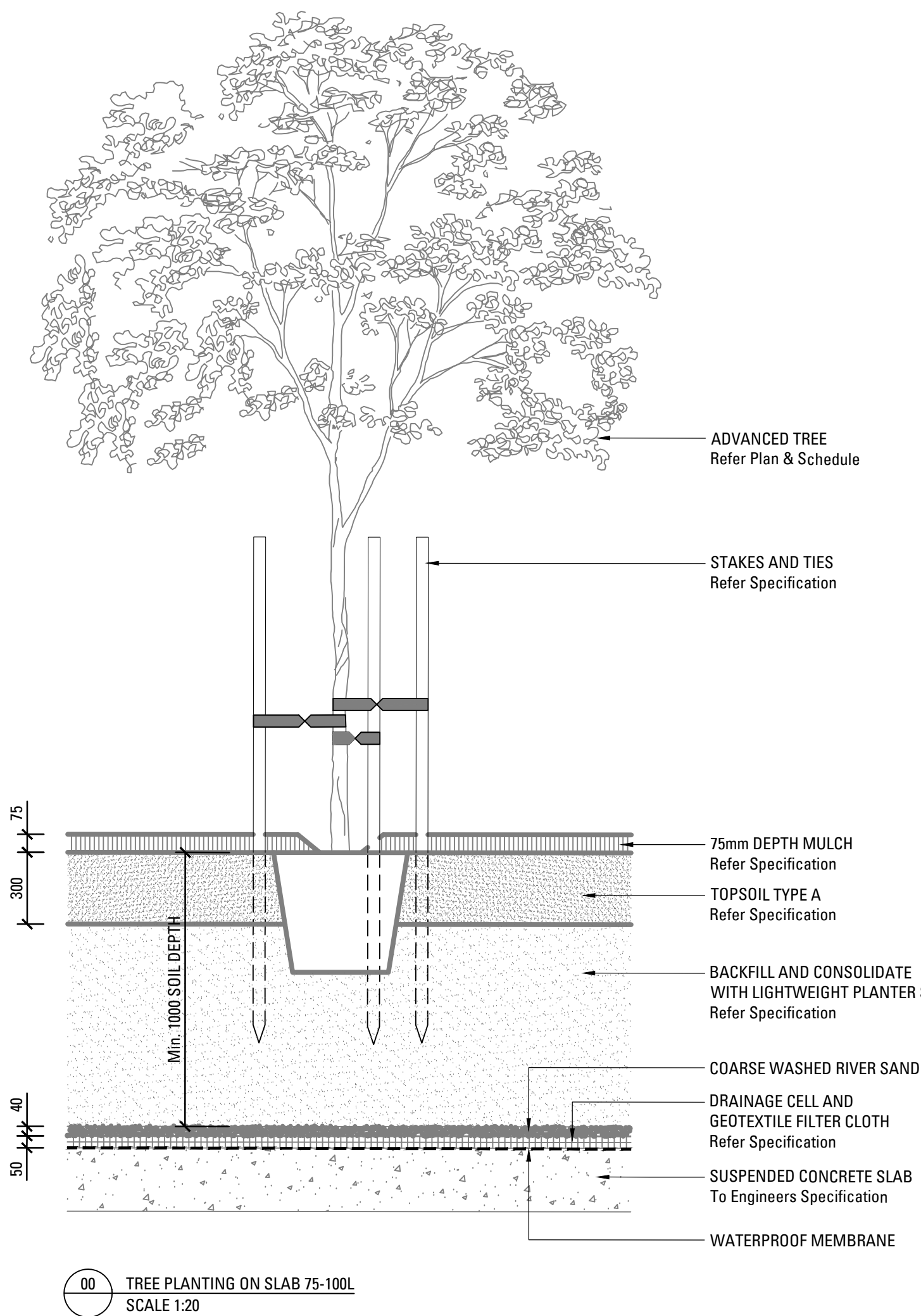
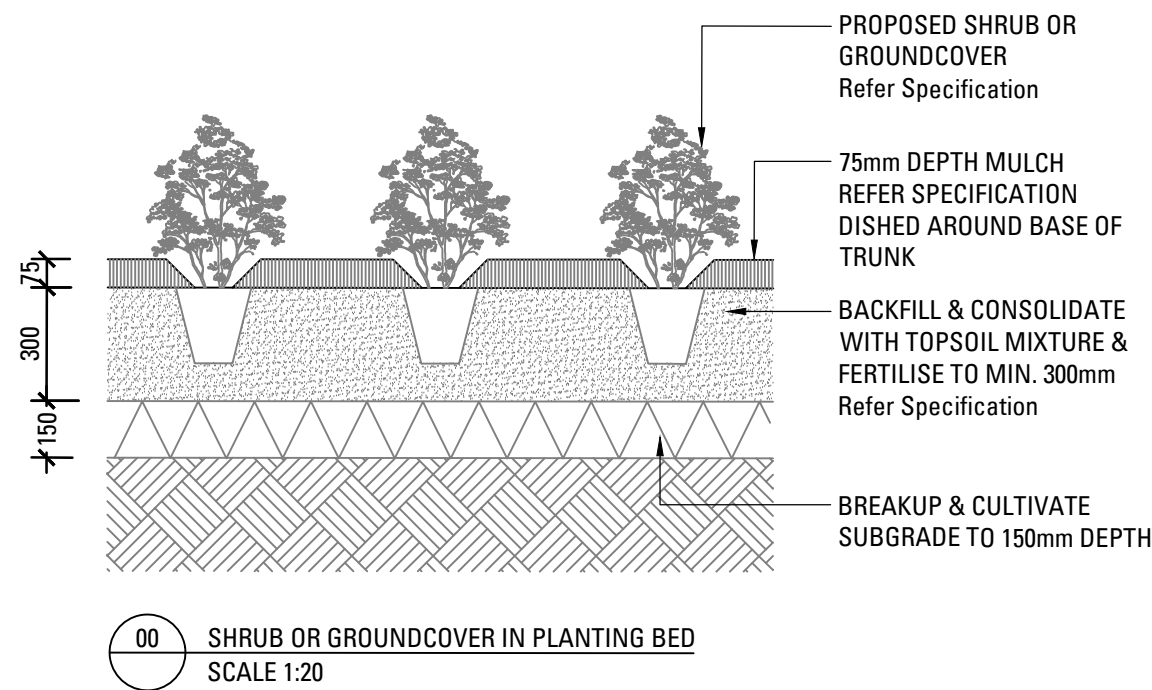
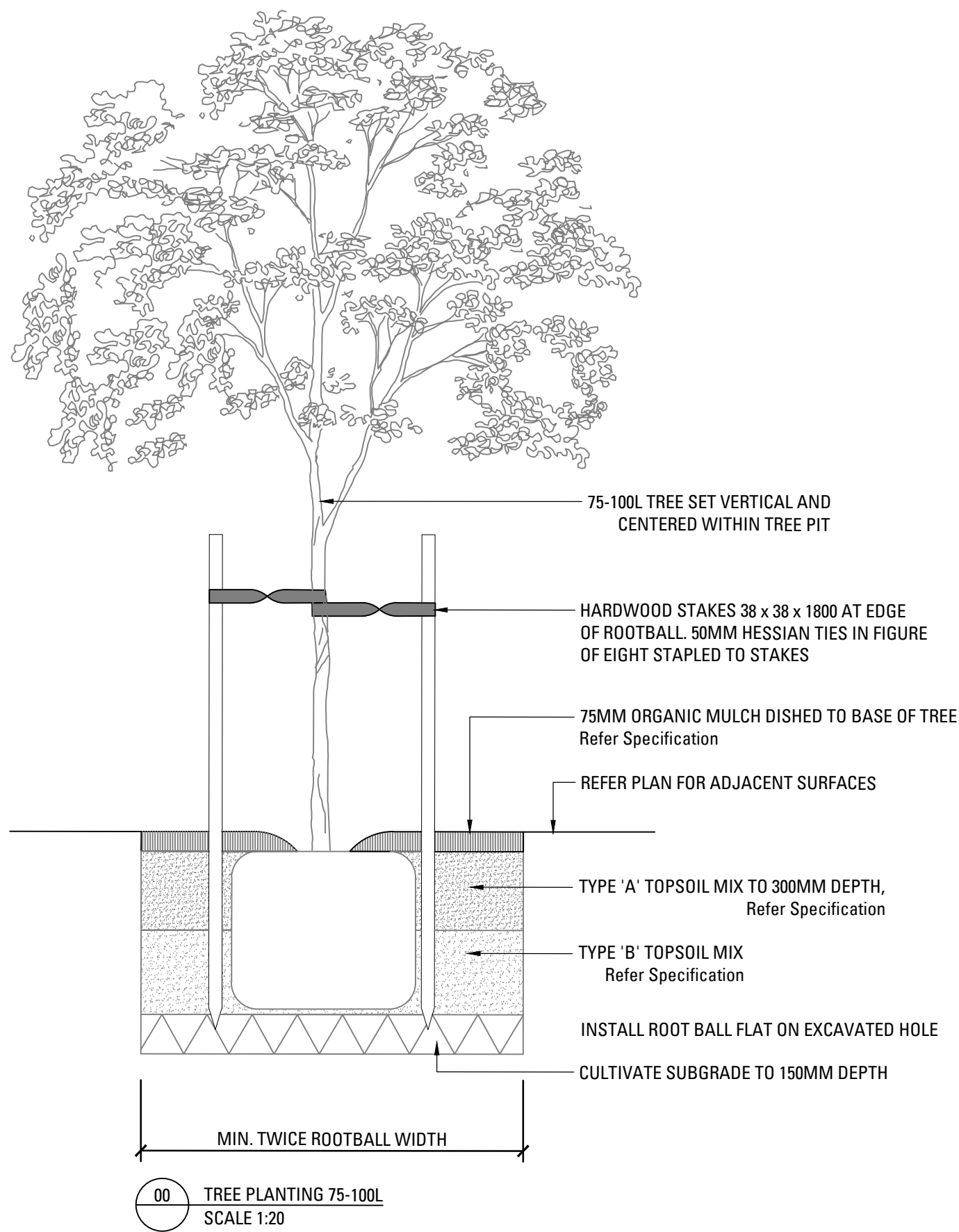
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Drawing No. Drawing Name
L-600 LANDSCAPE DETAILS

Job No. 24-1045
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LANDSCAPE SPECIFICATION NOTES

SERVICES

BEFORE LANDSCAPE WORK IS COMMENCED THE LANDSCAPE CONTRACTOR IS TO ESTABLISH THE POSITION OF ALL SERVICE LINES AND ENSURE TREE PLANTING IS CARRIED OUT AT LEAST 3 METRES AWAY FROM THESE SERVICES. SERVICE LIDS, VENTS AND HYDRANTS SHALL BE LEFT EXPOSED AND NOT COVERED BY ANY LANDSCAPE FINISHES (TURFING, PAVING, GARDEN BEDS ETC.) FINISH ADJOINING SURFACES FLUSH WITH PIT LIDS.

ABORIST MANAGEMENT OF TREE PROTECTION

A QUALIFIED AND APPROVED ABORIST IS TO BE CONTRACTED TO UNDERTAKE OR MANAGE THE INSTALLATION OF PROTECTIVE FENCING, AND TO UNDERTAKE SUCH MEASURES AS HE DEEMS APPROPRIATE TO PRESERVE THE SUBJECT TREES TO BE RETAINED. THE ARBORIST IS TO BE RETAINED FOR THE ENTIRE CONTRACT PERIOD TO UNDERTAKE ONGOING MANAGEMENT AND REVIEW OF THE TREES.

DRAINAGE CELL AND FILTER FABRIC

FOR ON-SLAB AREAS INSTALL AN APPROVED 'DRAINAGE CELL' PRODUCT TO COMPREHENSIVELY COVER THE BOTTOM OF ALL PLANTERS. OVER DRAINAGE CELL TO ON-SLAB AREAS, A POLYFELT GEOTEXTILE LINING (AS SUPPLIED BY 'POLYFELT TS' OR APPROVED EQUIVALENT) IS TO BE INSTALLED TO COVER THE BOTTOM OF ALL PLANTERS, TURNED UP 300MM AND TAPED TO THE PLANTER SIDES TO ENSURE SOIL MIX DOES NOT ESCAPE INTO DRAINAGE OUTLETS/HOLES. INSTALL MIN. 50MM COARSE RIVER SAND OVER ALL GEOTEXTILE LINING PRIOR TO INSTALLATION OF SOIL MIX.

PLANTING MIXTURE

SHALL BE HOMOGENOUS BLEND OF SOIL AND ADDITIVES IN THE FOLLOWING PROPORTIONS:
EXISTING SITE SOIL IF SUITABLE OR
IMPORTED TOPSOIL 50%
COMPOST 30%
D/W SAND 20%
SOIL TESTING OF EXISTING SITE SOIL IS TO BE UNDERTAKEN TO ASSESS SUITABILITY OF USE AS PLANTING TOPSOIL AND COMPLIANCE WITH AUSTRALIAN STANDARDS.

MULCH APPLICATION

PLACE MULCH TO THE REQUIRED DEPTH, (REFER TO DRAWINGS) CLEAR OF PLANT STEMS, AND RAKE TO AN EVEN SURFACE FINISHING 25MM BELOW ADJOINING LEVELS. ENSURE MULCH IS WATERED IN AND TAMPED DOWN DURING INSTALLATION.

MULCH TYPE

PINE BARK: FROM MATURE TREES, GRADED IN SIZE FROM 15MM TO 30MM, FREE FROM WOOD SLIVERS. DARK BROWN IN COLOUR AND TEXTURE.

COMPOST

SHALL BE WELL ROTTED VEGETATIVE MATERIAL OR ANIMAL MANURE, OR OTHER APPROVED MATERIAL, FREE FROM HARMFUL CHEMICALS, GRASS AND WEED GROWTH AND WITH NEUTRAL PH. PROVIDE A CERTIFICATE OF PROOF OF PH UPON REQUEST.

PLANT MATERIAL

ALL PLANTS SUPPLIED ARE TO CONFORM WITH THOSE SPECIES LISTED IN THE PLANT SCHEDULE ON THE DRAWINGS. GENERALLY PLANTS SHALL BE VIGOROUS, WELL ESTABLISHED, HARDENED OFF, OF GOOD FORM CONSISTENT WITH SPECIES OR VARIETY, NOT SOFT OR FORCED, FREE FROM DISEASE OR INSECT PESTS WITH LARGE HEALTHY ROOT SYSTEMS AND NO EVIDENCE OF HAVING BEEN RESTRICTED OR DAMAGED. TREES SHALL HAVE A LEADING SHOOT. IMMEDIATELY REJECT DRIED OUT, DAMAGED OR UNHEALTHY PLANT MATERIAL BEFORE PLANTING. ALL STOCK IS TO BE CONTAINER GROWN FOR A MINIMUM OF SIX (6) MONTHS PRIOR TO DELIVERY TO SITE

FERTILISER MASS PLANTING AREAS:

FERTILISER SHALL BE 'NUTRICOTE' OR APPROVED EQUIVALENT IN GRANULE FORM INTENDED FOR SLOW RELEASE OF PLANT NUTRIENTS OVER A PERIOD OF APPROXIMATELY NINE MONTHS. THOROUGHLY MIX FERTILISER WITH PLANTING MIXTURE AT THE RECOMMENDED RATE, PRIOR TO INSTALLING PLANTS.

STAKING AND TYING

STAKES SHALL BE STRAIGHT HARDWOOD, FREE FROM KNOTS AND TWISTS, POINTED AT ONE END AND SIZED ACCORDING TO SIZE OF PLANTS TO BE STAKED.
A. 5-15 LITRE SIZE PLANT 1X(1200X25X25MM)
B. 35-75 LITRE SIZE PLANT 2X(1500X38X38MM)
C. 100-GREATER THAN 200LITRE 3X(1800X50X50MM)
TIES SHALL BE 50MM WIDE HESSIAN WEBBING OR APPROVED EQUIVALENT NAILED OR STAPLED TO STAKE. DRIVE STAKES A MINIMUM ONE THIRD OF THEIR LENGTH, AVOIDING DAMAGE TO THE ROOT SYSTEM, ON THE WINDWARD SIDE OF THE PLANT.

IRRIGATION SYSTEM

SUPPLY AN AUTOMATIC WATERING SYSTEM USING 'TORO IRRIGATION SYSTEM' OR SIMILAR APPROVED, WITH MICRO-JET SPRINKLER HEADS AND LOW DENSITY, RUBBER MODIFIED POLYPROPYLENE RETICULATION, TO INCLUDE FILTERS, BENDS JUNCTIONS, ENDS AND OTHER ANCILLARY EQUIPMENT. THE LANDSCAPER SHALL NOMINATE HIS SOURCE OF SUPPLY FOR THE WATERING SYSTEM AND OBTAIN APPROVAL FROM THE SUPERINTENDENT BEFORE PLACING ORDERS FOR EQUIPMENT OR SUPPLY.

A SCHEMATIC PLAN OF THE PROPOSED IRRIGATION SYSTEM IS TO BE PREPARED BY THE CONTRACTOR, SHOWING SOLENOIDS, PIPE DIAMETERS, AND ALL NOZZLE AND TRICKLE ATTACHMENT TYPES (INCLUDING SPRAY/HEAD ANGLE), FOR REVIEW BY THE SUPERINTENDENT PRIOR TO INSTALLATION

THE CONTRACTOR IS TO LIASE WITH THE HYDRAULIC ENGINEER AND COUNCIL AS NECESSARY, TO ENSURE THE THE IRRIGATION SYSTEM CONFORMS WITH ALL THE COUNCIL AND WATER BOARD CODES AND REQUIREMENTS.

PROVIDE AN AUTOMATIC CONTROLLER THAT PROVIDES FOR TWO WEEK SCHEDULING AND HOURLY MULTI-CYCLE OPERATION. THE CONTROLLER SHALL MANUAL OVERRIDE. PROGRAMMING SHALL BE UNDERTAKEN BY THE CONTRACTOR WHO SHALL ADVISE ON THE OPERATION OF THE SYSTEM.

PROVISION OF SECURE HOUSING FOR THE AUTOMATIC IRRIGATION CONTROLLER TO BE LOCATED IN ASSOCIATION WITH THE LANDSCAPE CONTRACTOR AND LOCATION CONFIRMED BY THE SUPERINTENDENT. WIRING TO CONNECT REMOTE SOLENOID LOCATIONS IS TO BE PROVIDED. THE CONTROLLER SHALL BE LOCATED IN A DRY PLACE, PROTECTED FROM THE WEATHER, AND ALL CABLE CONNECTIONS SHALL BE MADE WITH WATERPROOF CONNECTORS.

WATER SUPPLY POINTS TO BE SUPPLIED BY BUILDER.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE AND GUARANTEE SATISFACTORY OPERATION OF THE IRRIGATION SYSTEM.

AFTER THE SYSTEM HAS BEEN INSTALLED TO THE SATISFACTION OF THE SUPERINTENDENT, THE INSTALLATION SHALL BE TESTED UNDER KNOWN WORKING CONDITIONS. ACCEPTANCE OF THE INSTALLED PLANT AND EQUIPMENT SHALL BE SUBJECT TO THESE BEING SATISFACTORY.

TREATED PINE TIMBER EDGING

TIMBER EDGE: 100 X 25MM CCA TREATED RADIATA PINE TIMBER STAKES: 50 X 50 X 500MM CCA TREATED RADIATA PINE-SHARPENED AT ONE END. INSTALL IN LOCATIONS SHOWN ON THE DRAWINGS FLUSH TO FINISHED SURFACE LEVELS.

LANDSCAPE MAINTENANCE PROGRAM

MAINTENANCE SHALL MEAN THE CARE AND MAINTENANCE OF THE LANDSCAPE WORKS BY ACCEPTED HORTICULTURAL PRACTICE AS RECTIFYING ANY DEFECTS THAT BECOME APPARENT IN THE LANDSCAPE WORKS UNDER NORMAL USE. THIS SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, WATERING, MOWING, FERTILISING, RESEEDING, RETURFING, WEEDING, PEST AND DISEASE CONTROL, STAKING AND TYING, REPLANTING, CULTIVATION, PRUNING, AERATING, RENOVATING, TOP DRESSING, MAINTAINING THE SITE IN A NEAT AND TIDY CONDITION AS FOLLOWS:-

GENERAL

THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE LANDSCAPE WORKS FOR THE TERM OF THE MAINTENANCE (OR PLANT ESTABLISHMENT) PERIOD TO THE SATISFACTION OF THE COUNCIL. THE LANDSCAPE CONTRACTOR SHALL ATTEND TO THE SITE ON A WEEKLY BASIS. THE MAINTENANCE PERIOD SHALL COMMENCE AT PRACTICAL COMPLETION AND CONTINUE FOR A PERIOD OF TWENTY SIX (26) WEEKS.

WATERING

GRASS, TREES AND GARDEN AREAS SHALL BE WATERED REGULARLY SO AS TO ENSURE CONTINUOUS HEALTHY GROWTH.

RUBBISH REMOVAL

DURING THE TERM OF THE MAINTENANCE PERIOD THE LANDSCAPE CONTRACTOR SHALL REMOVE RUBBISH THAT MAY OCCUR AND REOCCUR THROUGHOUT THE MAINTENANCE PERIOD. THIS WORK SHALL BE CARRIED OUT REGULARLY SO THAT AT WEEKLY INTERVALS THE AREA MAY BE OBSERVED IN A COMPLETELY CLEAN AND TIDY CONDITION.

REPLACEMENTS

THE LANDSCAPE CONTRACTOR SHALL REPLACE ALL PLANTS THAT ARE MISSING, UNHEALTHY OR DEAD AT THE LANDSCAPE CONTRACTOR'S COST. REPLACEMENTS SHALL BE OF THE SAME SIZE, QUALITY AND SPECIES AS THE PLANT THAT HAS FAILED UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT. REPLACEMENTS SHALL BE MADE ON A CONTINUING BASIS NOT EXCEEDING TWO (2) WEEKS AFTER THE PLANT HAS DIED OR IS SEEN TO BE MISSING.

STAKES AND TIES

THE LANDSCAPE CONTRACTOR SHALL REPLACE OR ADJUST PLANT STAKES, AND TREE GUARDS AS NECESSARY OR AS DIRECTED BY THE LANDSCAPE ARCHITECT. REMOVE STAKES AND TIES AT THE END OF THE MAINTENANCE PERIOD IF SO DIRECTED.

PRUNING

TREES AND SHRUBS SHALL BE PRUNED AS DIRECTED BY THE LANDSCAPE ARCHITECT. PRUNING WILL BE DIRECTED AT THE MAINTENANCE OF THE DENSE FOLIAGE OR MISCELLANEOUS PRUNING AND BENEFICIAL TO THE CONDITION OF THE PLANTS. ANY DAMAGED GROWTH SHALL BE PRUNED. ALL PRUNED MATERIAL SHALL BE REMOVED FROM THE SITE.

MULCHED SURFACES

ALL MULCHED SURFACES SHALL BE MAINTAINED IN A CLEAN AND TIDY CONDITION AND BE REINSTATED IF NECESSARY TO ENSURE THAT A DEPTH OF 75MM IS MAINTAINED. ENSURE MULCH IS KEPT CLEAR OF PLANT STEMS AT ALL TIMES.

PEST AND DISEASED CONTROL

THE LANDSCAPE CONTRACTOR SHALL SPRAY AGAINST INSECT AND FUNGUS INFESTATION WITH ALL SPRAYING TO BE CARRIED OUT IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS. REPORT ALL INSTANCES OF PESTS AND DISEASES (IMMEDIATELY THAT THEY ARE DETECTED) TO THE LANDSCAPE ARCHITECT.

WEED ERADICATION

ERADICATE WEEDS BY ENVIRONMENTALLY ACCEPTABLE METHODS USING A NON-RESIDUAL GLYPHOSATE HERBICIDE (EG. 'ROUNDUP') IN ANY OF ITS REGISTERED FORMULAE, AT THE RECOMMENDED MAXIMUM RATE. REGULARLY REMOVE BY HAND, WEED GROWTH THAT MAY OCCUR OR RECUR THROUGHOUT GRASSED, PLANTED AND MULCHED AREAS. REMOVE WEED GROWTH FROM AN AREA 750MM DIAMETER AROUND THE BASE OF TREES IN GRASSED AREAS. CONTINUE ERADICATION THROUGHOUT THE COURSE OF THE WORKS AND DURING THE MAINTENANCE PERIOD.

SOIL SUBSIDENCE

ANY SOIL SUBSIDENCE OR EROSION WHICH MAY OCCUR AFTER THE SOIL FILLING AND PREPARATION OPERATIONS SHALL BE MADE GOOD BY THE LANDSCAPE CONTRACTOR AT NO COST TO THE CLIENT.

DRAFT

C	SSDA	JS	QL	21.02.25
B	SSDA DRAFT	JS	QL	17.02.25
A	SSDA DRAFT	JS/CR	QL	10.02.25
Issue	Revision	Description	Drawn	Check Date

Not for Construction

Project

UNSW G25

SSDA DRAFT

Client
UNSW



Drawing No.	Drawing Name
L-700	LANDSCAPE SPECIFICATION

Job No.	24-1045
Issue	C
Scale	

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