

APPIAN WAY BANKSTOWN

VPA SCOPE OF WORKS

WALKER CORPORATION
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ISSUED FOR APPROVAL

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ASPECT Studios

‘We design
places where
people want
to be.’

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Introduction



1.1 Capability

ASPECT Studios are an award winning team of landscape architects, urban designers and living architecture specialists. We are recognized for our excellence in the design and delivery of innovative, progressive and high quality public and private landscape spaces.

ASPECT has developed a broad portfolio of public realm projects for urban settings such as streets and plazas which demonstrate our capability to deliver projects such as Appian Way. This page depicts a selection of completed ASPECT public realm projects in Sydney and Melbourne.

Steam Mill Lane is a new, pedestrianized, ‘eat-street’ laneway located near Chinatown in the southern Sydney CBD. It is the first of two laneways, and a larger series of public spaces that, together, will comprise Darling Square; a significant urban regeneration project on the site of the former Sydney Entertainment Centre and car park.

George Street is part of the Sydney South East Light Rail project. This first phase between King Street and Park Street have been completely redesigned converting two city blocks into a pedestrian oriented environment.

The Goods Line brings the vision of a more connected, sustainable and innovative Sydney one step closer to reality. It provides a connection through to the Devonshire Tunnel under Central Station and Chinatown and Darling Harbour, and taps into various cultural, educational, and media institutions along the way.

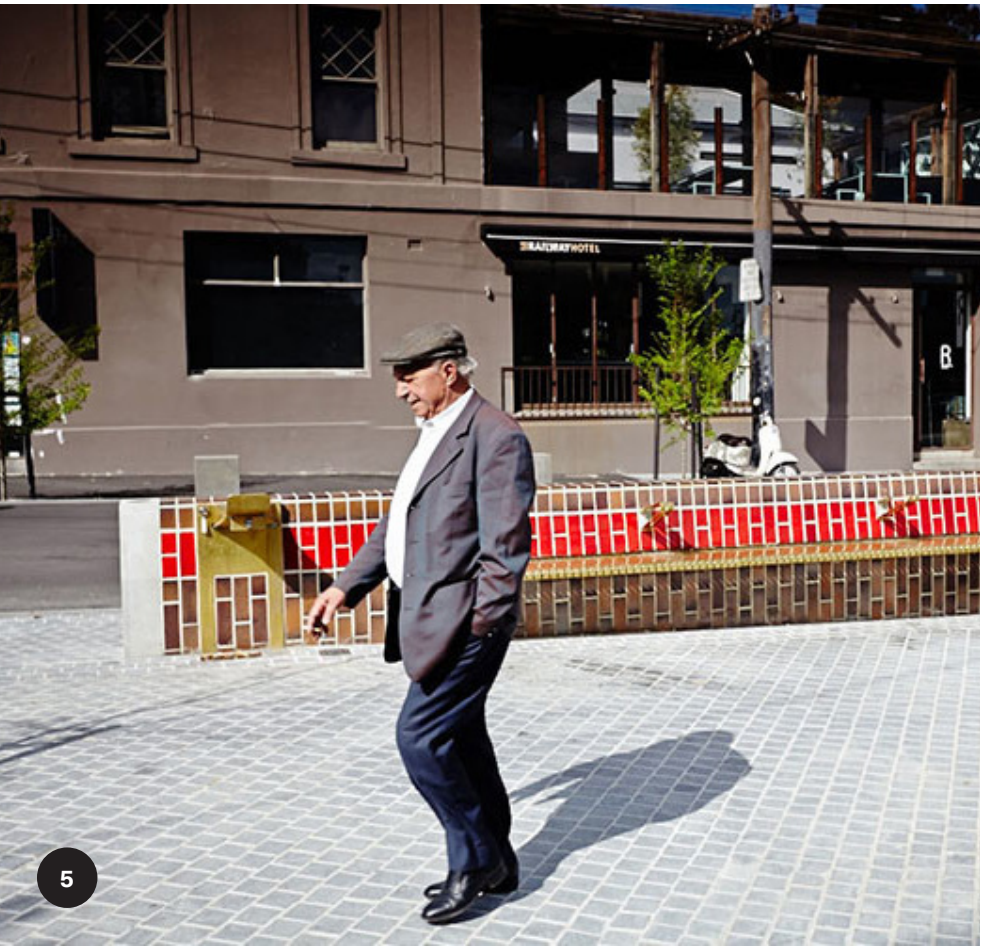
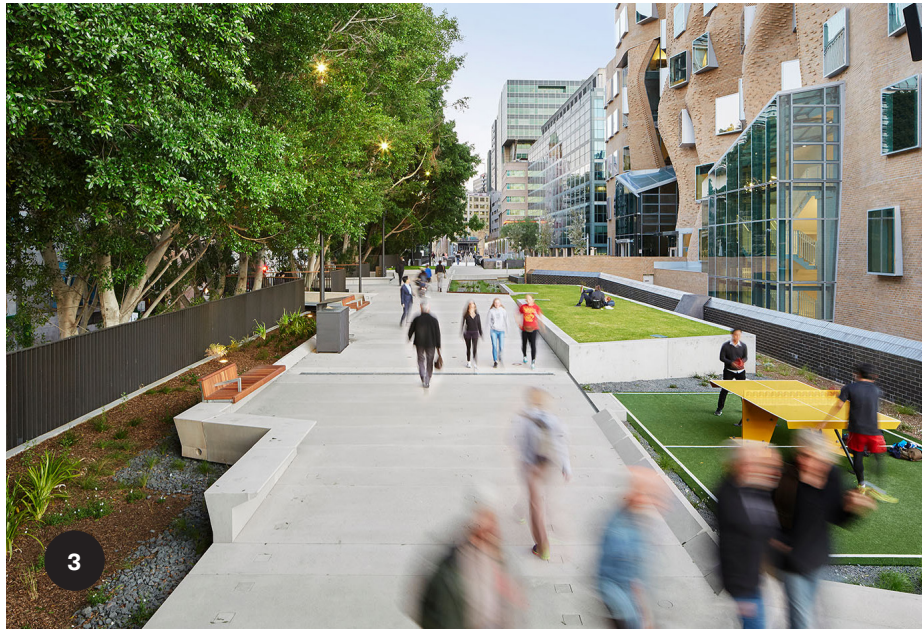
Prahran Square is a leading example of a new form of urban square. What was once street-level carpark is transformed into a multi-functional parkland integrating a multilevel underground carpark and restructuring the surrounding streetscapes into a pedestrian friendly environment.

Windsor is the creation of new public space in a highly contested urban realm of inner Melbourne. The thinking behind this project goes back nearly 8 years when it was first identified as an opportunity to reduce the road space and increase pedestrian in the Chapel Street master plan.

Our team is currently engaged on the UWS BCC Campus to deliver the surrounding public realm which allows us to now use this knowledge and understanding of the site to assist in delivery of Appian Way.

LEGEND

1	Steam Mill Lane, Sydney NSW
2	George Street, Sydney NSW
3	Goods Line, Sydney NSW
4	Prahran Square, Melbourne, VIC
5	Windsor Plaza, Melbourne, VIC

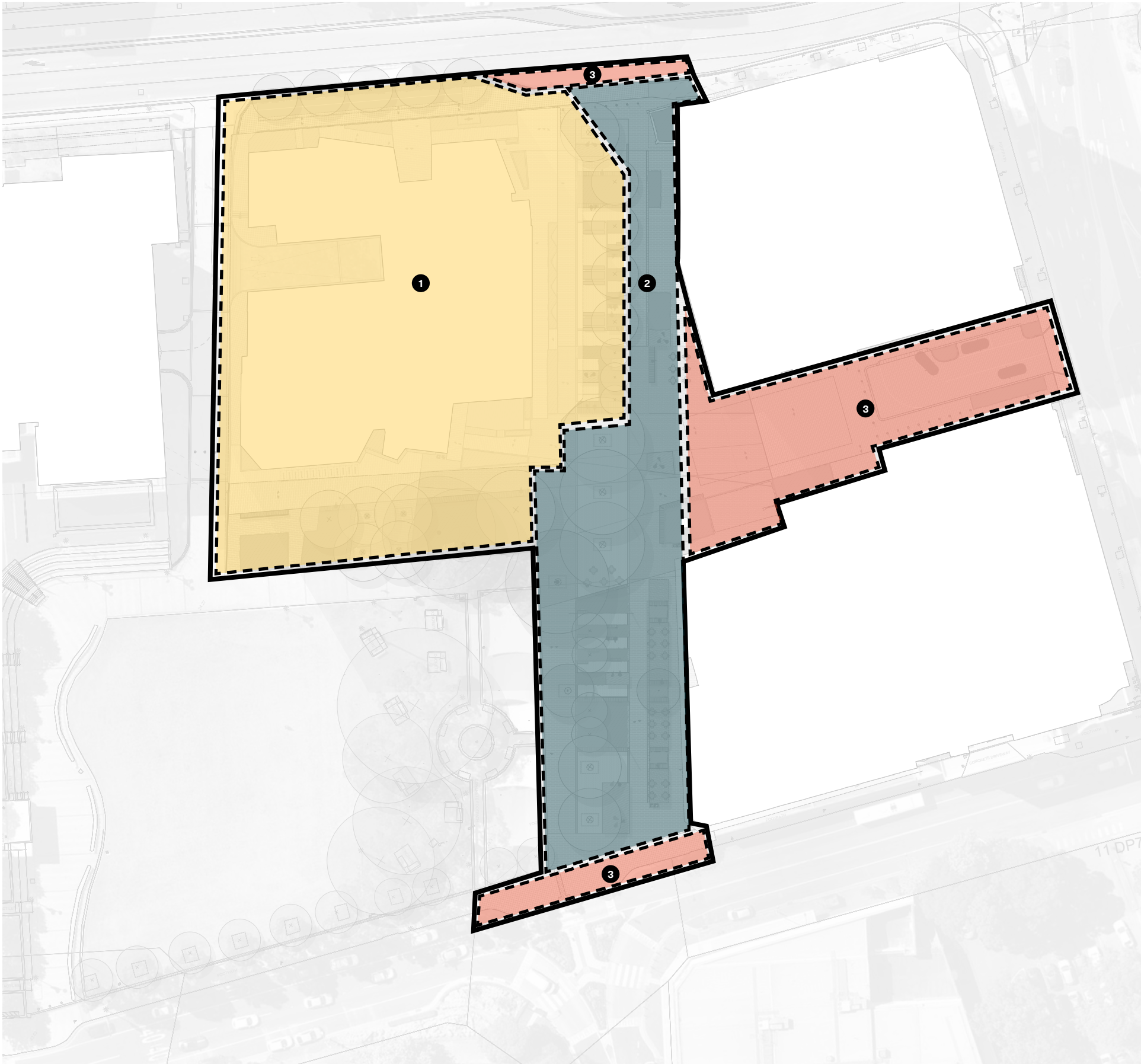


1.2 Scope of Works and Boundaries

The extent of works and boundaries that are proposed as part of the Appian Way Public Domain reference design are illustrated on the image to the right.

The area in scope have been separated into three categories for ease of reference but the extent of design and reference works consider the full site for an integrated public realm outcome. Please refer techincal drawings for a final and accurate drawing.

- 1. UWS SSDA Scope
- 2. VPA Scope of Works
- 3. Reference Design interface areas



LEGEND

1	UWS Bankstown SSDA scope fo works
2	Voluntary Planning Agreement scope of works
3	Reference Design interface areas
	Extent of Works boundary

Concept Design



The City of Sydney
Sydney, NSW, Australia

2.1 Design Intent and Principles

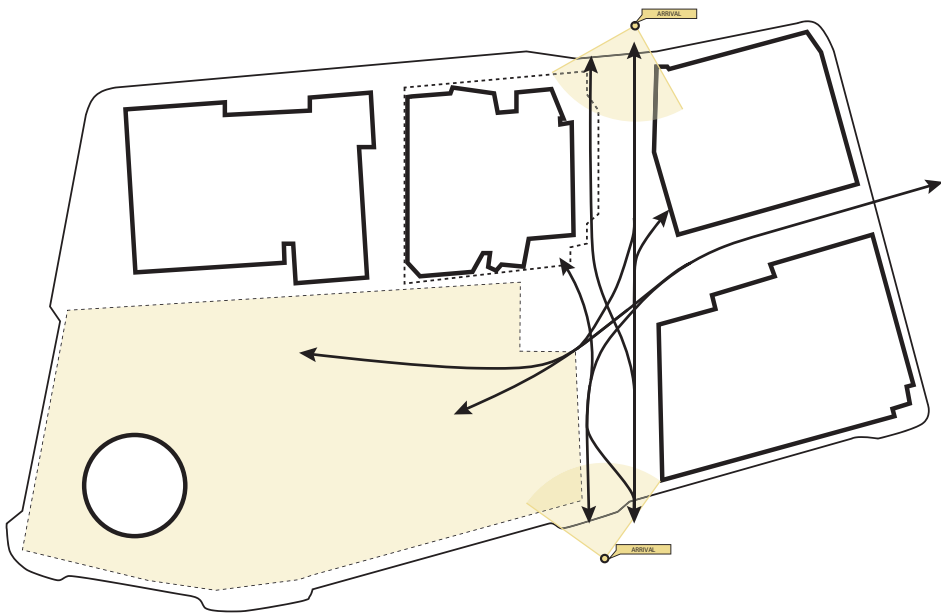
The revitalisation and upgrade of Appian Way and surrounds present a significant and catalytic opportunity to transform an existing street and car park into an accessible and green corridor. The corridor currently sits between the soon to be upgraded Bankstown Metro Station and the proposed Western Sydney University (UWS) Bankstown Campus.

The opportunity to design and deliver the northern section of Appian Way coincides with the development and construction of the UWS site. The proposed public domain extent and upgrade surrounding the UWS site was somewhat constrained and it was evident that to achieve the best outcome, the upgrade should consider the wider site. The developer for the UWS site, Walker Corporation and local government Canterbury Bankstown City Council (CBCC) have engaged us, ASPECT Studios to collaborate and to continue our work on the UWS campus upgrade, as well as extending our scope of work to include the wider public realm scope. The reference design proposal for Appian Way responds to main documents that have recently been authored by CBCC including:

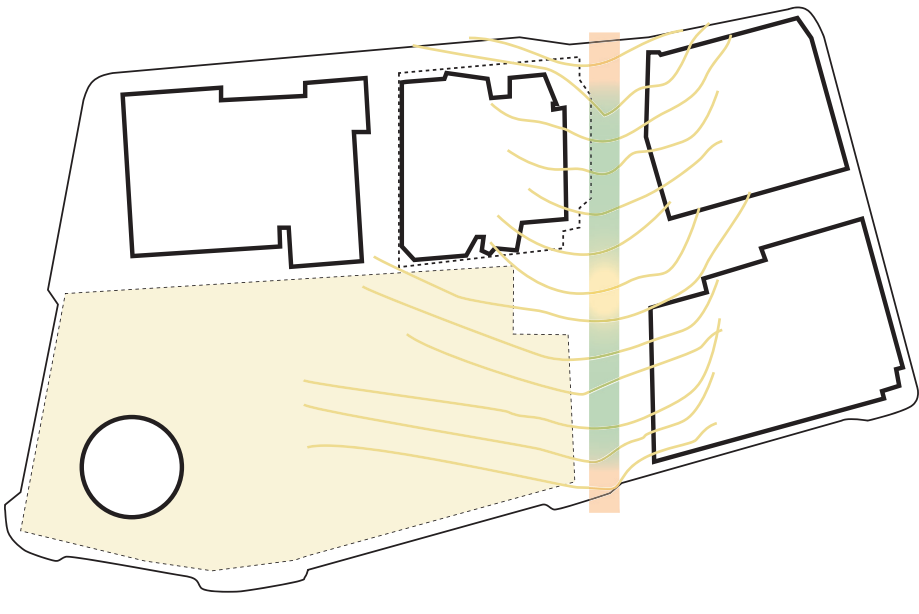
- Complete Streets 2019 (Endorsed)
- Paul Keating Park (PKP) Master Plan August 2020 (Draft)

These strategic reports set out a series of considerations, recommendations and actions for the site and seek to prioritise this work as it leverages strong links to public transport, as well as ongoing growth and development in the area. This proposal aims to build a high quality green shared street where safety and human-scaled approaches are also considered. It is the first phase in creating a strong linear gesture within the heart of Bankstown CBD, providing a strong focus on pedestrian and cycle movement, creating fun and safe places for rest and gather, and reducing urban heat. The proposal unlocks the sites potential creating premier community destination and environment where “people want to be” rather than simply passing through. The structure of the proposed design strategy involves the formation and consolidation of a series of disparate open spaces into a unified shared street and park interface, each activated through the inclusion of social infrastructure, heritage interpretation, and passive recreational facilities. The initial reference design seeks to build upon the work completed within the Complete Streets and PKP Masterplan. This proposal is guided by the following principles and objectives;

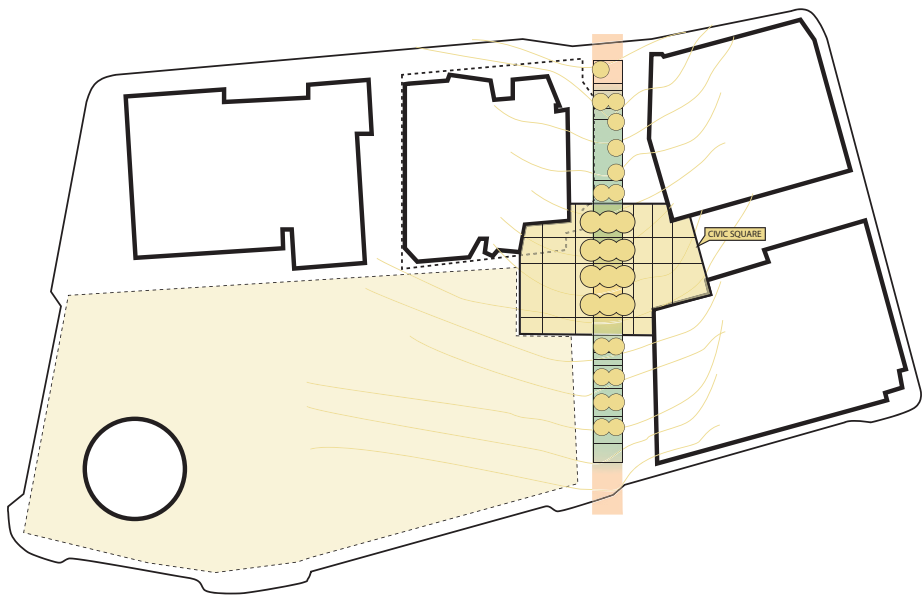
1. A Pedestrian Place - Put people first by seeking to resolve current vehicular access to ensure pedestrians and cyclists are always prioritised to ensure a safe and welcoming environment.
2. A Green and Blue spine - Create an exemplar shared street which prioritises green and blue infrastructure, as well as reflecting the history of place and the culture of the people of Bankstown.
3. A Central Civic Square - The development around Appian Way is set to change in the future with growing residential demands. Through a generous civic square which connects to open spaces, educational institutions, and work places, the space will become a focus for civic and everyday life as Bankstown grows.
4. Events Big and Small - Consider and plan for the future growth and needs of Bankstown and ensure Appian Way offers a diverse range of activities and places for both day and night.



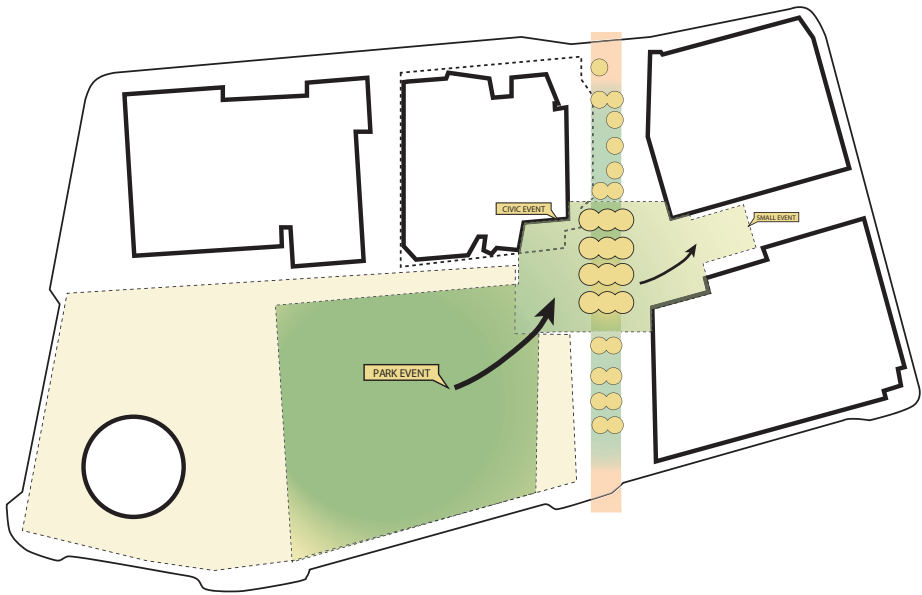
A Pedestrian Place



A Green and Blue Spine

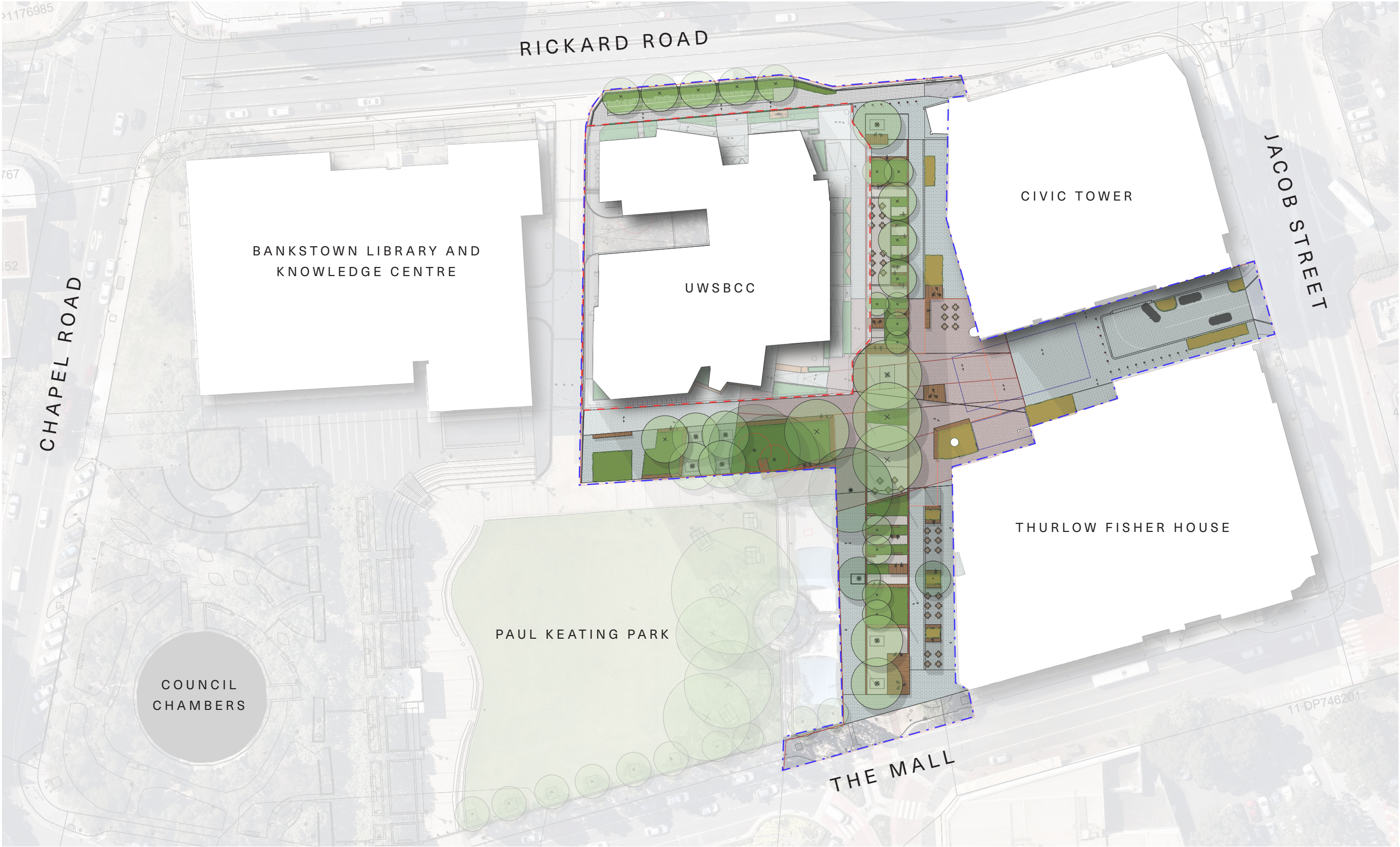


A Central Civic Square



A Place for Events - Big and Small

2.2 Reference Design Masterplan



Design Strategies



3.1 Access and Circulation

The potential closure of The Appian Way to general vehicular traffic has many positive outcomes for the public realm.

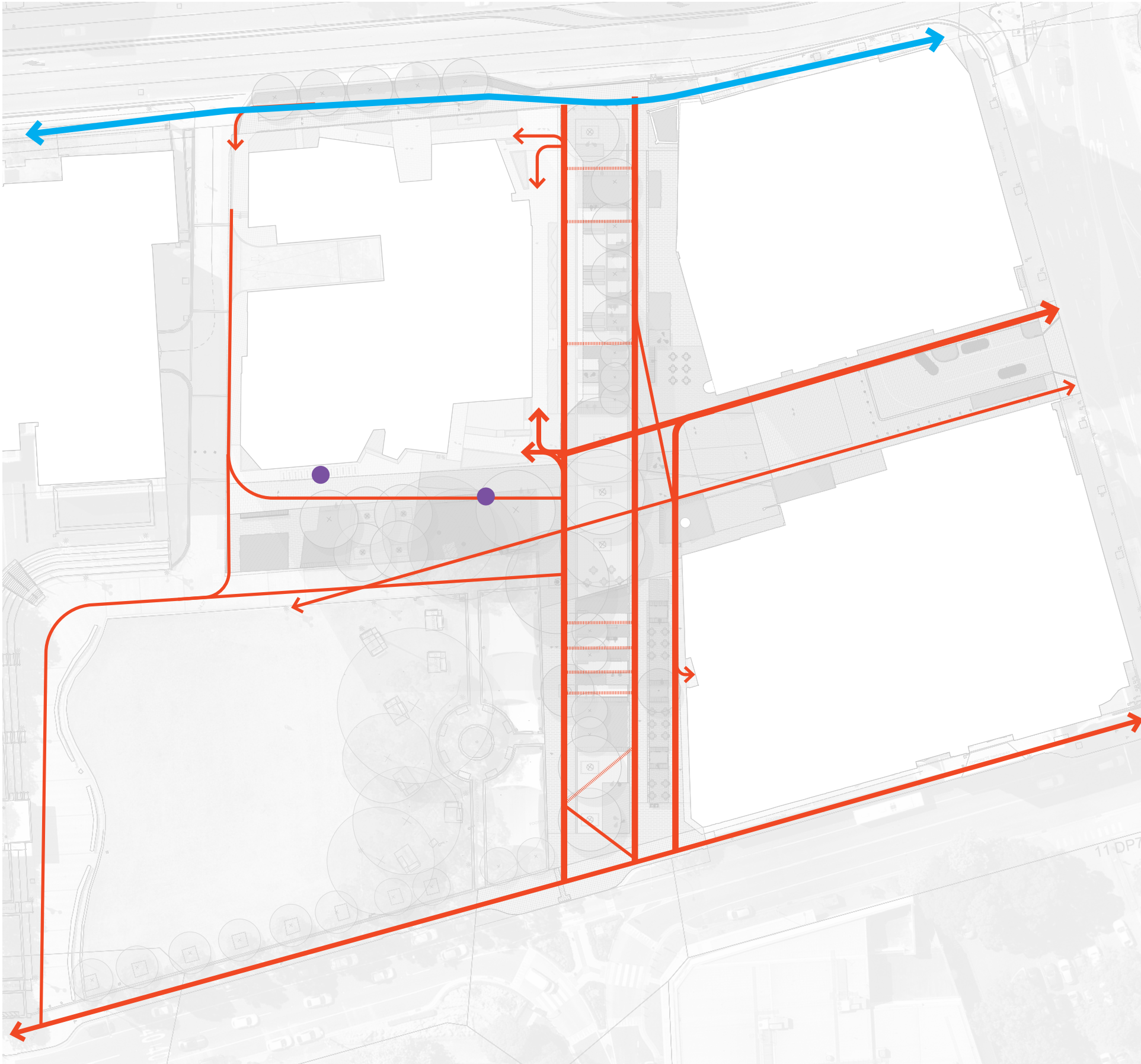
The southern portion of The Appian Way currently operates as a pedestrian only zone. The reference design, in alignment with the Complete Streets Action Plan and Paul Keating Park Masterplan proposes to limit or exclude vehicular access from Rickard Road to improve amenity and safety for the public realm. Given the pedestrian priority approach, all streets within the scope will either be only for pedestrians or shared between pedestrians and cyclists unless stated otherwise.

In summary:

- Primary pedestrian access paths are a minimum of 3000mm wide to a maximum of 6000mm wide to allow for fluctuating flows of movement of pedestrians and cyclists in one shared space
- Secondary pedestrian paths vary in width with a minimum of 2000mm wide.
- As per the complete streets action plan and in reposnse to CBCC comments a separated cycle path (2500mm wide) and 1800mm wide pedestrian path is proposed along the frontage of the WSU building that enables future connection further west and east
- All proposed paths except for the western edge of WSU are proposed to be continuable accessible paths of travel in accordance with

LEGEND

	Proposed Shared / Cycle Path
	Pedestrian and Cycle Movement (Primary)
	Pedestrian and Cycle Movement (Secondary)
	Bike Parking



3.2 Vehicular Access, Circulation, and Servicing

The potential closure of The Appian Way to general traffic has many positive outcomes for the public realm. However, existing and future access requirements need to be considered within the design to ensure the site remains accessible in emergency and operational for maintenance and large public events. The reference design does not currently resolve all access requirements but proposes three potential options of vehicular access. These three options are:

1. Utilise Civic Drive as the primary vehicular access point for the civic tower car parking and servicing , The Appian Way servicing and emergency access. Bollards would be located beyond the current car park portal and access beyond this point would be for service vehicles only and under management.
2. Utilise the proposed eastern pedestrian zone for irregular service vehicle access only. Permitted vehicle, such as substation maintenance or other local servicing vehicles would enter from Rickard Road and cross secure bollard line before heading east bound and turning east along civic drive to exit.
3. Utilise the existing service lane to the west of the proposed WSU building. Pass the existing bollard line on the lane to head east across the public domain and exit via Civic Drive. This access would be suitable for events only and is not proposed for everyday use.

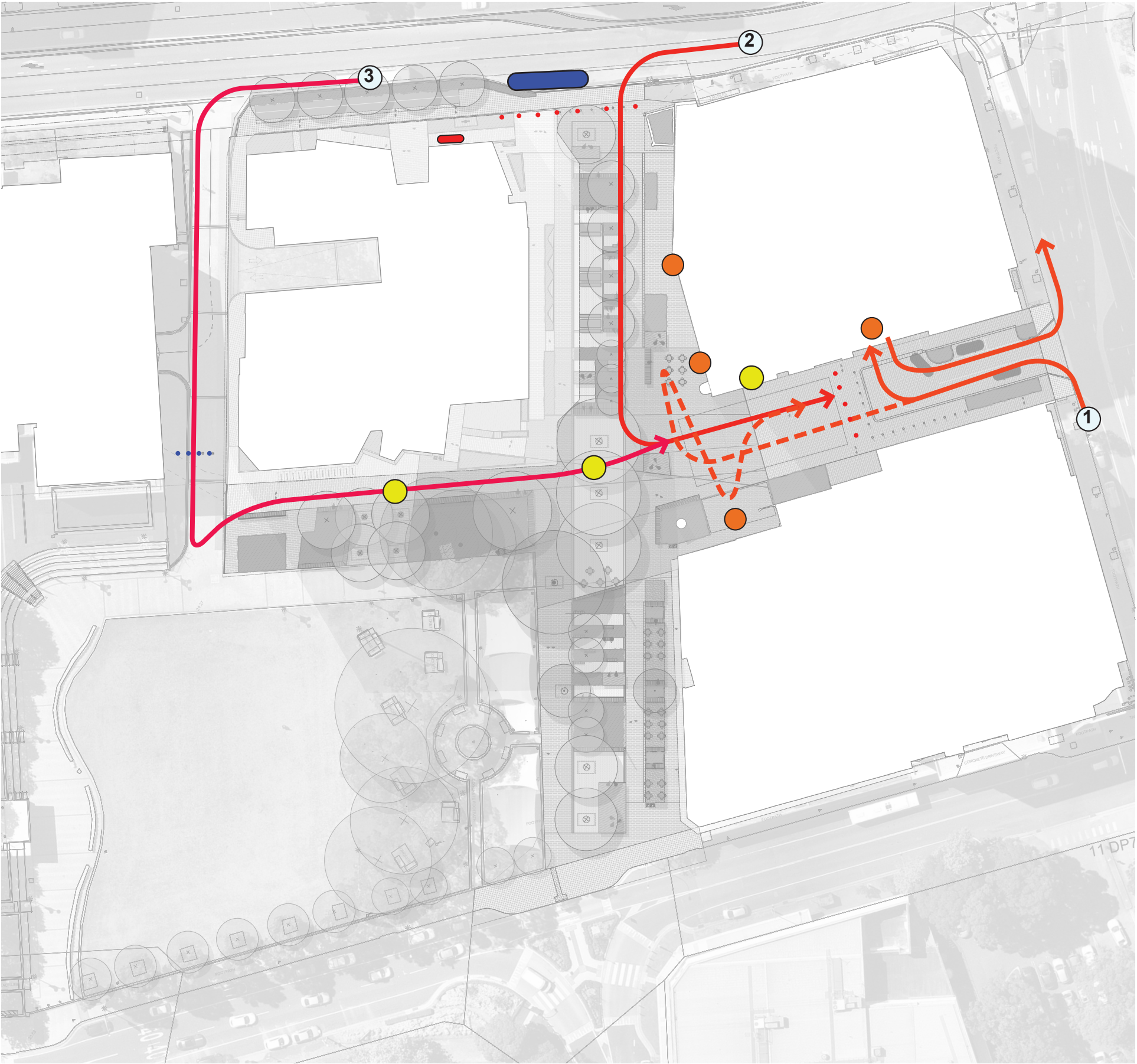
Key issues for parking, vehicular access and servicing include:

- Current garbage truck and service access to the south west corner of civic tower requires future consideration and/or relocation. CBCC has noted that remains a possibility however further resolution is required.
- Existing substation access located on the eastern edge of Civic Tower requires future consideration and updated access provision will be required.
- Existing loading dock and parking on the north west corner of Thurlow Fisher House requires future consideration and/or relocation to avoid daily movements in this area.
- Provision for a DDA parking space within 50-60m of the proposed WSU development and connected by a continuous accessible path of travel

Please refer to the appendix for a copy of the draft swept path analysis that is aligned to the above for reference only. All proposed vehicular movements and proposed access and parking requires further investigation by a traffic engineer and consultation with CBCC and local authorities.

LEGEND

	Vehicular Movement - Path 1
	Vehicular Movement - Permitted Vehicle Swept Path
	Vehicular Movement - Path 2
	Vehicular Movement - Path 3
	Existing access or Service Point
	Proposed access or Service Point
	Potential Drop off and Disabled Parking
	Proposed firebooster for WSU Campus
	Proposed removable Bollards
	Existing Bollards



3.3 Site Drainage and Flooding

The Appian Way is located in a flood zone which imposes a number of significant impacts to the public realm design. However, the reference design proposes to use these constraints and celebrate the sites continued history with water.

Two major underground storm water pipes are located beneath The Appian Way. These pipes are part of a broader storm water management system within the city of Bankstown and are currently planned for upgrade by the Council.

An existing culvert inlet is located at the Rickard Road junction allowing for peak (1:100 year events) storm water inflow and outflow during a surcharge event. The existing culvert needs to maintain its current function. At the southern end of The Appian Way a new inlet is proposed and will be constructed by the Council. The inlet will be constructed above the existing pipe network. The proposed design requires a large inlet pit and grate to be located at 300mm below the existing street levels

The reference design proposes to:

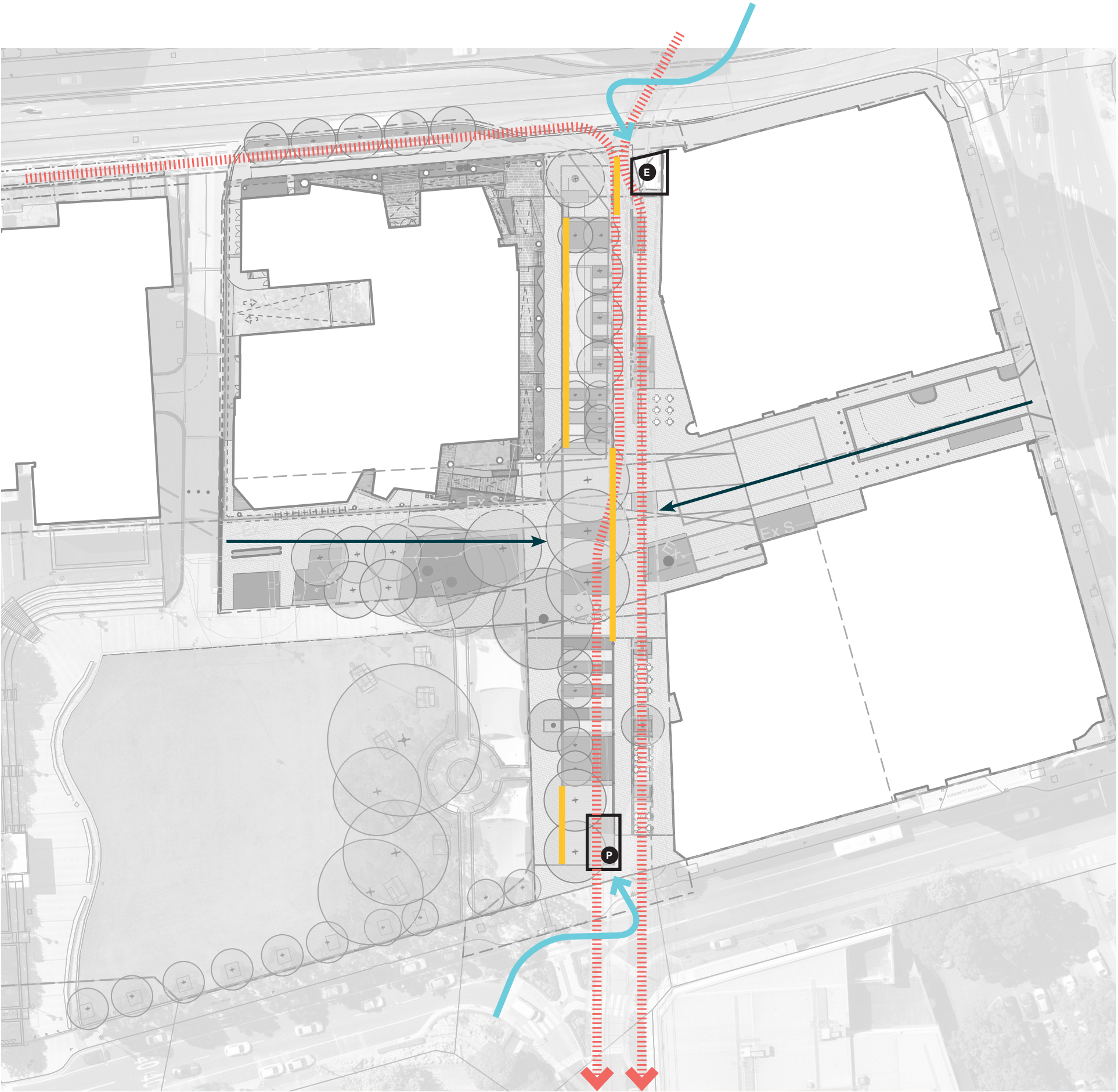
1. Screen the unsightly edges and structure for a more suitable and contemporary upgrade within the overall public domain.
2. Collect site run off during smaller storm events from the public domain surfaces and drain towards linear trench drains or brick slot drains that run down the length of The Appian Way. Length and type of drain is yet to be determined.
3. Where possible divert low flows of water into a series of rain gardens or garden beds along the length of The Appian Way that act as minor detention zones prior to conveyance.
4. Integrate a large public arrival seat above the southern inlet pit to disguise it but allow it to remain functional.

Key issues for Site Drainage and Flooding include:

- Approved consultant or council to provide updated flood modeling in relation to proposed design to ensure it is meeting requirements
- Civil and hydraulic review of extent of proposed WSUD design features to confirm suitability and acceptance

The proposed design opportunities and interventions illustrated on the following page are included as a reference only. Design subject to change.

LEGEND	
	Proposed Drainage Channel/ Trench
	Existing and Upgraded Stormwater and Culvert
	Flow Direction
	Existing Drainage Inlet
	Proposed Drainage Inlet



3.4 Site Drainage and Flooding

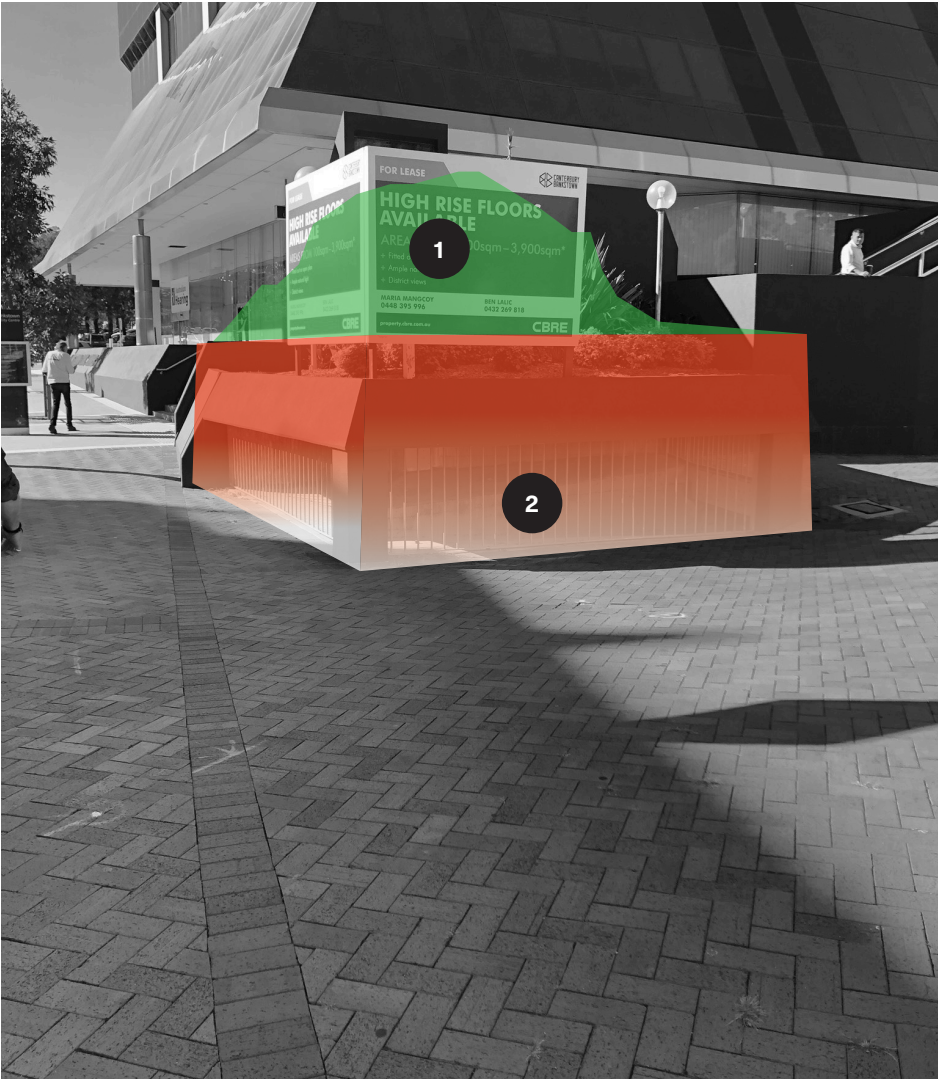


Photo of existing culvert inlet at junction with Rickard Road and Appian Way . Illustration overlay indicative of potential upgrade

LEGEND

1	Proposed revegetation on top of culvert
2	Opportunity for wayfinding, site interpretation and public art - disguise culvert with perforated steel mesh with appropriate permeability to meet drainage requirements.
3	Proposed and indicative - a large public seat to cover southern inlet grate
4	Steel drainage channel - opportunity to integrate with pavement and historical site and water narrative details into selected surfaces
5	Opportunity - Drainage channel to be integrated with rain gardens and garden beds for sustainable water use



3.5 Water Sensitive Urban Design

The Appian Way is located in a flood zone which imposes a number of significant impacts to the public realm design. However, the reference design proposes to use these constraints and celebrate the sites continued history with water. Two major underground storm water culverts are located beneath The Appian Way. These culverts are part of a broader storm water management system within the city of Bankstown and are currently planned for upgrade by the Council.

An existing culvert inlet is located at the Rickard Road junction allowing for peak (1:100 year events) storm water inflow and outflow during a surcharge event. The existing culvert needs to maintain its current function. For smaller storm events, the public domain surfaces will be drained towards two linear trench drains that run the majority of the length of The Appian Way. These drains will be connected to local pits to capture site run off. Where possible these trenches will divert low flows of water into a series of rain gardens along the length of The Appian Way.

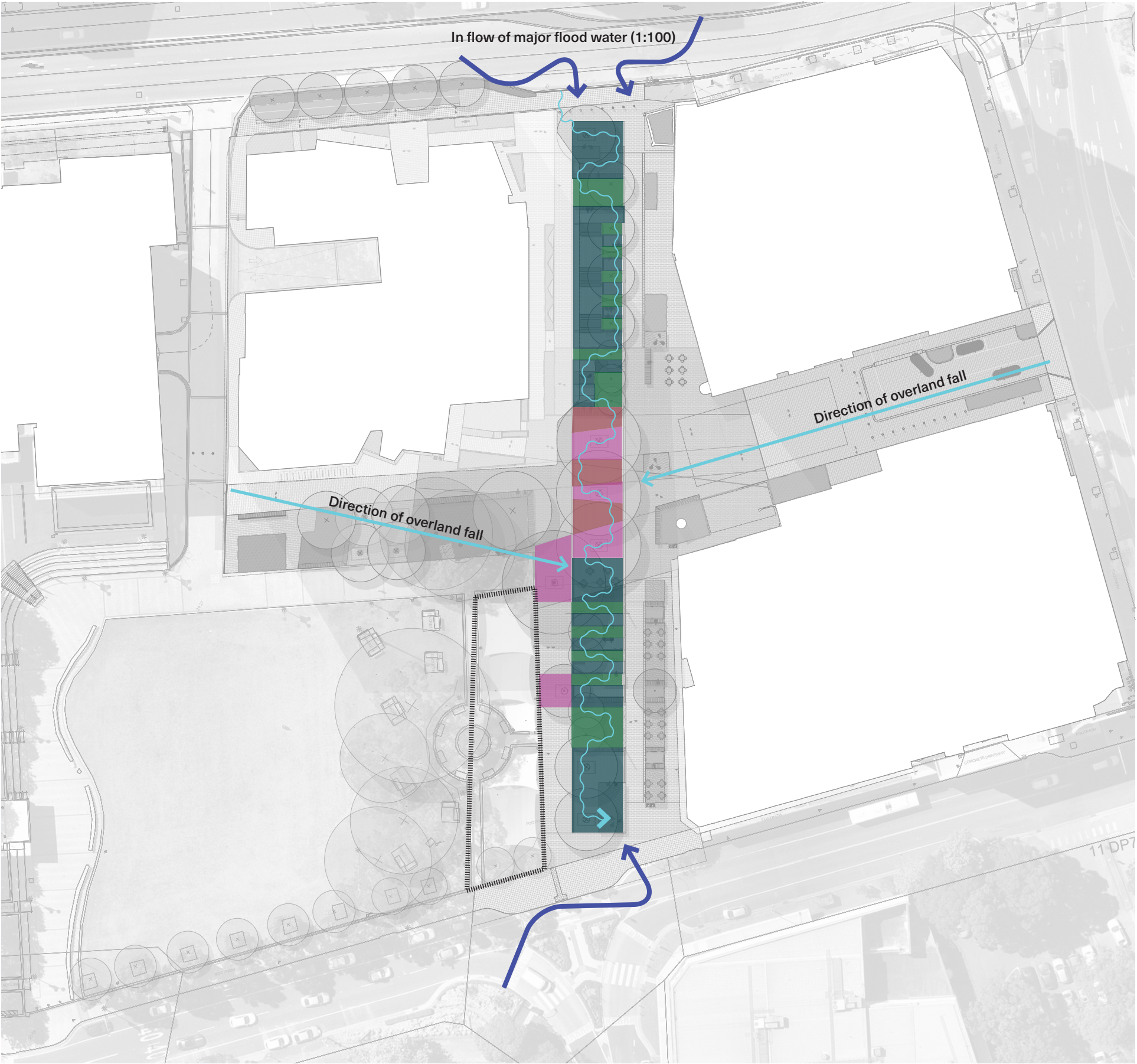
At the southern end of The Appian Way, a new inlet is proposed and will be constructed by the Council. The inlet will be constructed above the existing pipe network. The proposed design requires a large inlet pit and grate to be located at 300mm below the existing street levels. The reference design acknowledges the importance of this upgrade to the system and plans to integrate it to form a large public arrival seat.

The Paul Keating Park Master Plan (PKPMP) suggested a series of rain gardens to the left hand side of The Appian Way, where the current play area exists. The levels of this area sit predominately above The Appian Way, meaning rain gardens within this area would need to be lowered and additional drainage infrastructure would be required if The Appian Way is to drain into this area. The scope shown in this reference design has not considered this area. However, a series of raingardens are proposed along the blue green spine of The Appian Way to allow for future flexibility of this area.

The reference design proposes potential options for the integration of WSUD within The Appian Way. All options require further investigation with civil and hydraulic engineers. These options are:

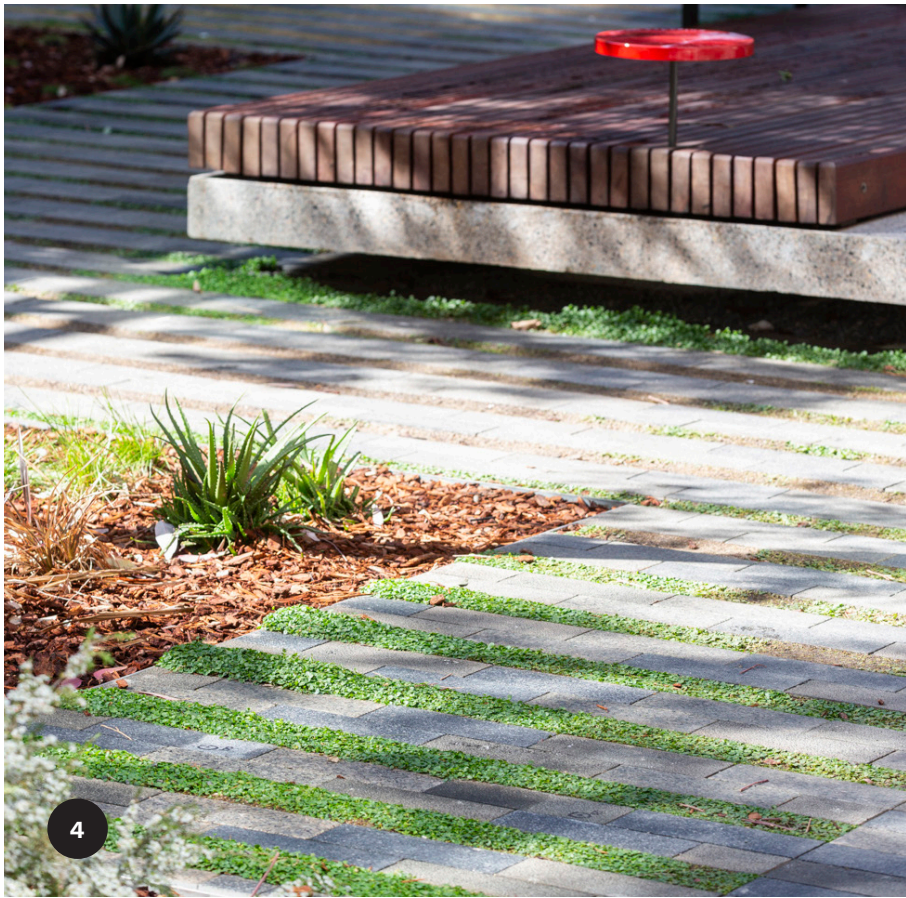
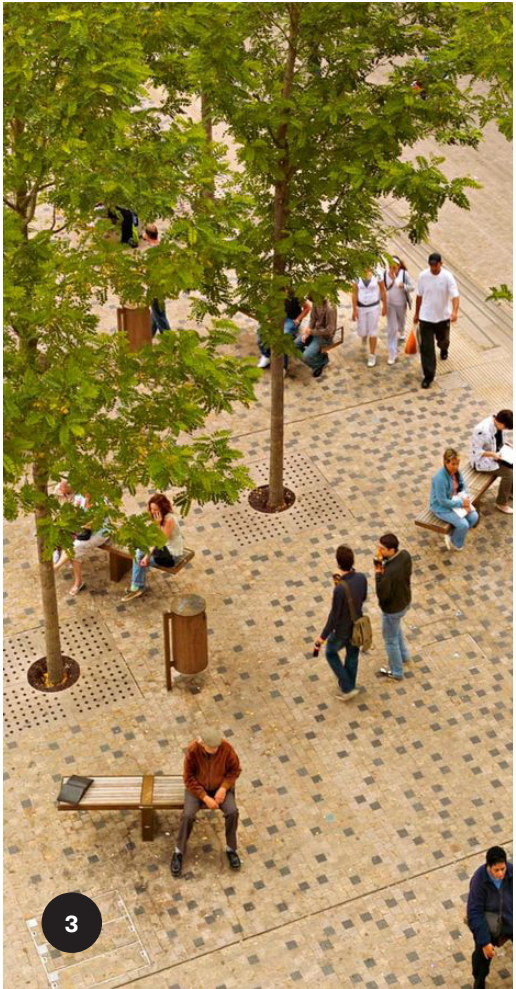
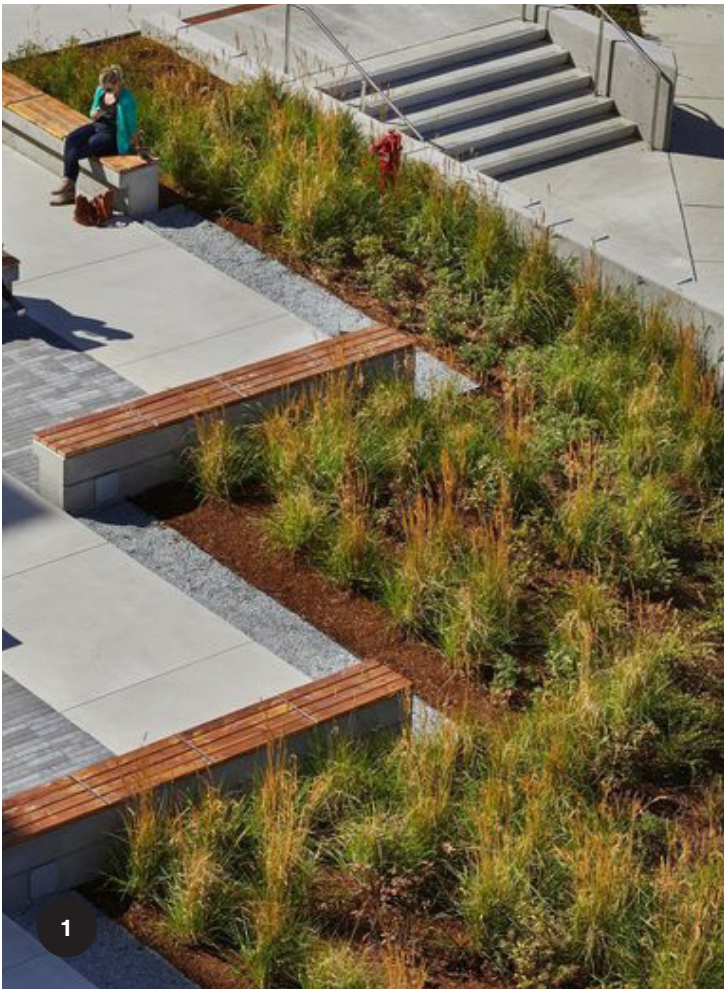
- 1. To create a dedicated “green and blue” spine down the centre of The Appian Way that enables the capture and treatment of rainwater through a series of connected rain gardens and drainage trenches before it enters the storm water system
- 2. The use of engineered permeable stone pavements and grate systems within the green and blue spine to allow for in flow of run off and aeration of tree pits
- 3. To highlight the proposed system through interpretative design and educate the community on the value of urban cooling.
- 4. To screen the unsightly edges and structure of the existing culvert for a more suitable and contemporary upgrade within the overall public domain.

LEGEND	
	Rain gardens or passively irrigated garden beds
	Engineered stone paving with permeable features
	Steel tree grates with infill stone paving and integrated aeration and inspection points
	Engineered stone pavements within the green and blue spine (vehicular grade)
	Surface water gradually conveyed to major storm water infrastructure
	Potential for future rain gardens or water treatment as per Paul Keating Park Master Plan (not in scope)



LEGEND

- | | |
|---|--|
| 1 | Rain gardens or passively irrigated garden beds |
| 2 | Engineered stone paving with permeable features |
| 3 | Paving and steel tree grates integrated with infill stone paving and integrated aeration and inspection points |
| 4 | Opportunity for porous pavement for tree growth and heat reduction |



3.6 Urban Trees and Soil Volume

The constraints of the existing and proposed culvert locations present a challenge to the establishment of large shade trees on the eastern side of the site. Trees have therefore been strategically aligned to the centre of Appian Way in order to create continuous soil volume and tree line. Within this zone, we propose to excavate down to 1000mm depth to provide necessary soil volume and deep soil to support tree growth. Where garden beds are proposed, there will be a free draining soil and where pavements are indicated, strata vaults will be used to support the pavement and allow for a continuous soil volume.

An advantage of dedicating a consolidated zone (approx 930m²) for trees down the centre Appian Way is that it allows for a more efficient use of soil, as the volume can be shared between the trees. This minimises the amount of deep soil needed for trees proposed down the centre of Appian Way and ensures that maintenance activities are consolidated. The volume of soil a tree requires varies greatly and many characteristics determine it minimum needs.

ASPECT Studios recommends the use of the Soil Volume calculator by soil scientist Elke Hage to determine optimal growing conditions for urban trees. The SVS allows tree planting scenarios to influence recommended soil volume through 5 selections. Influencing factors on tree volume include:

- Tree design size / Climate / Soil within the tree pit / Maintenance including irrigation and Design life (considering acceptability of tree stunting

Civic Drive will be a primary service vehicle route and is located over a reinforced concrete slab. As such, vegetation which creates a buffer between pedestrian activities and vehicle movements should be prioritised through raised planters given the nature of Civic Drive being built on slab. At this time, we don't have sufficient structural information to determine if trees are suitable. Therefore, we have excluded this option from the reference design in the interim.

Below is a table of indicative soil volumes proposed based on tree size. The reference design has allowed for minimum soil volumes for all trees within the current design.

Tree Size or Category	Indicative Size Range at 15-20 years (HxW)	Indicative Soil Volume (m3)
Large and Wide Tree	20-35m x 15m+	30m3
Large Tree	10-20m x 8-10m	25m3
Medium Tree	8-10m x 6-8m	20m3
Small Tree	4-8m x 6m	15m3

LEGEND

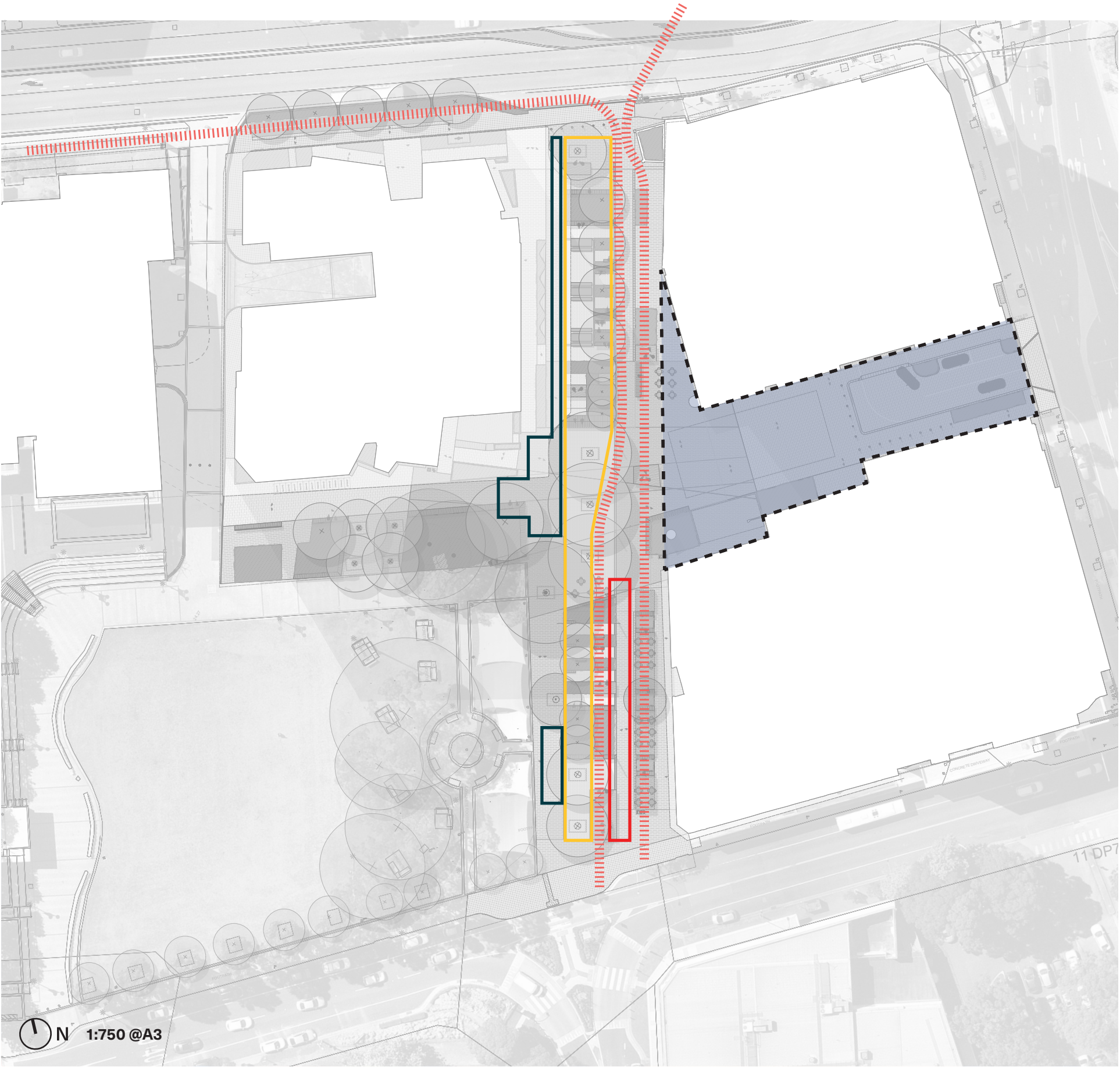
Existing and proposed culvert

Concrete slab basement below Civic Drive trees currently excluded form this area

Consolidated Centre Tree Zone

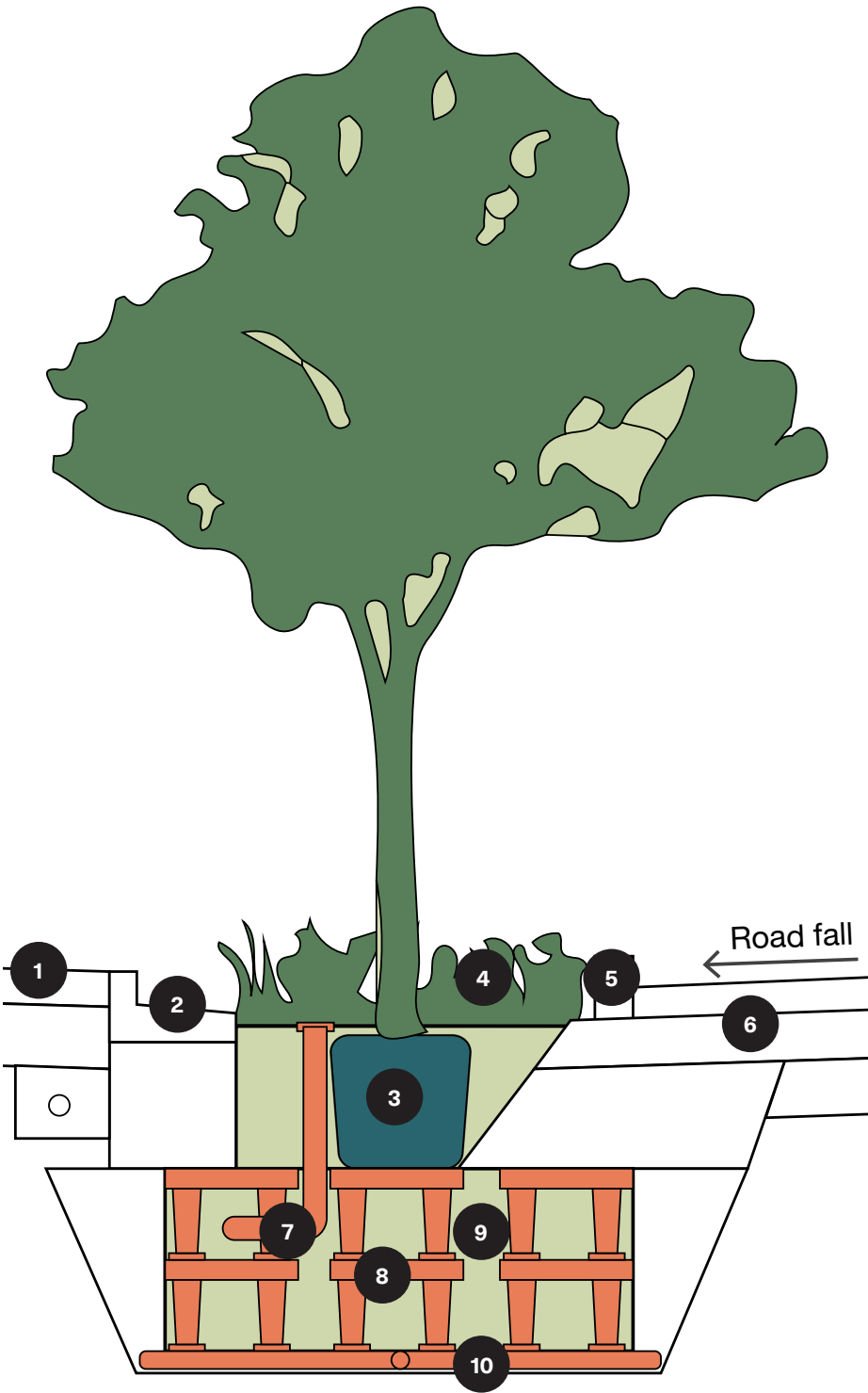
Potential for additional soil volume outside the Centre Tree Zone

Tree exclusion area due to proximity to culvert

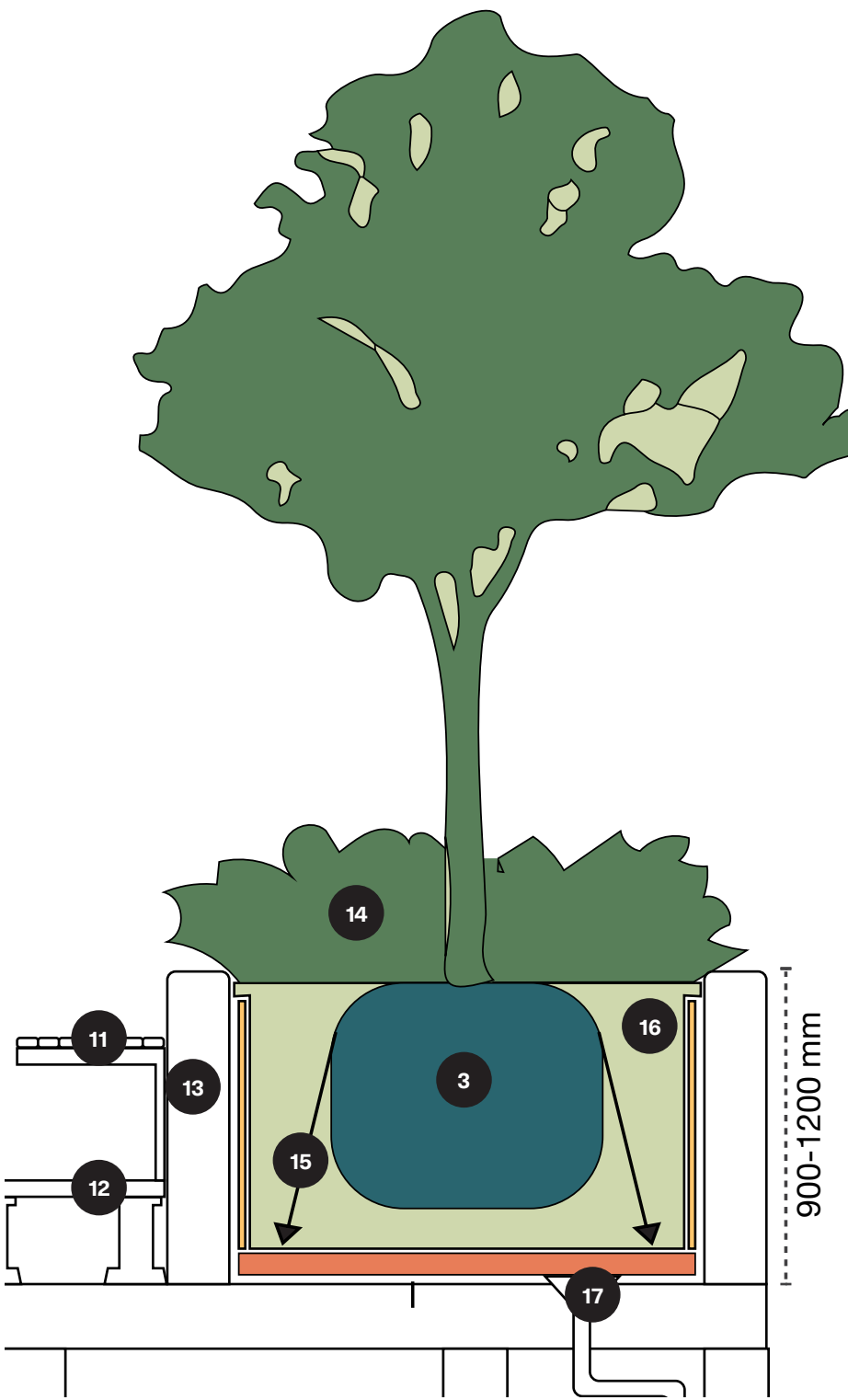


LEGEND

1	Adjacent footpath runoff
2	Modified kerb and channel directing run off to raingarden
3	Semi-advanced tree with rootball anchors
4	Raingarden
5	Kerb with cutouts
6	Road pavement runoff
7	Overflow inlet
8	Stratavaults with filter media
9	Adequate soil volume
10	Aggregate drainage layer connected to stormwater
11	Integrated seating
12	Paving/ decking on pedestals
13	Raised planter
14	Low planting
15	Tree anchors
16	Growing substrate
17	Drain point connected to irrigation storage



STRATA VAULT APPROACH



PODIUM PLANTING APPROACH

3.7 Materiality

A subtle palette of high quality light grey and warm-toned Australian granite pavers in various size formats and finishes will be used to define circulation, gathering, and social spaces across different sections of the Appian Way to create a continuous terrain for flexible movement.

The materials proposed are guided by the following objectives;

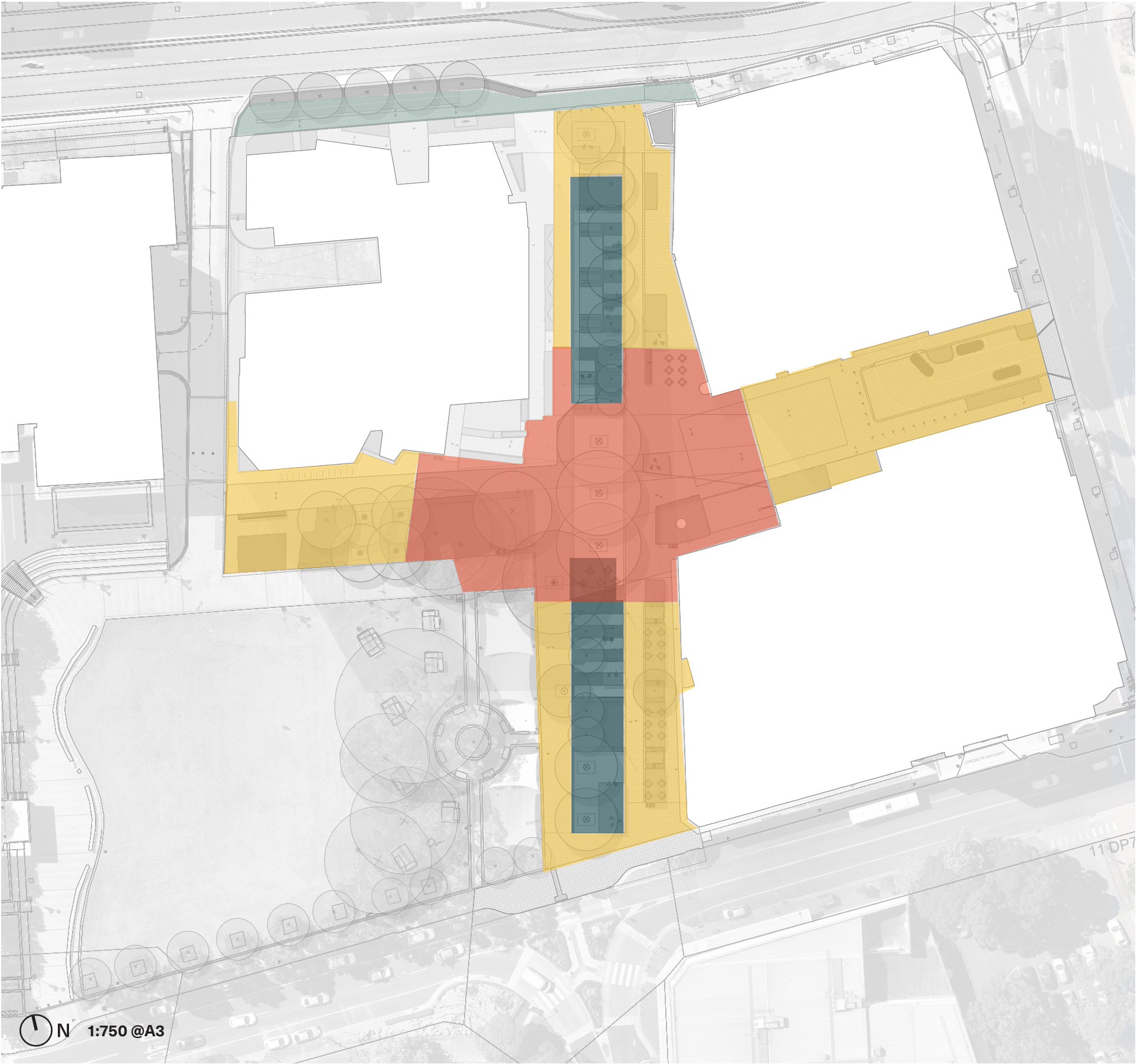
- 1. All paving (where required) are to have a suitable rigid pavement structure that supports the proposed or determined loading. We currently are allowing for vehicular grade pavement in all areas except the occupation zones as these are not proposed to have vehicular movement.
- 2. All paving will be designed to compliant grades in accordance with Australian Standards

Key issues for materiality and paving include:

- Review of current selections and their proposed future alignment with CBCC specifications and maintenance procedures.
- All paving currently located over existing culverts and basement structures will need to be confirmed as being suitable for the location before proceeding with further design. This is given the tolerance around suitable depth and loading over these structures.

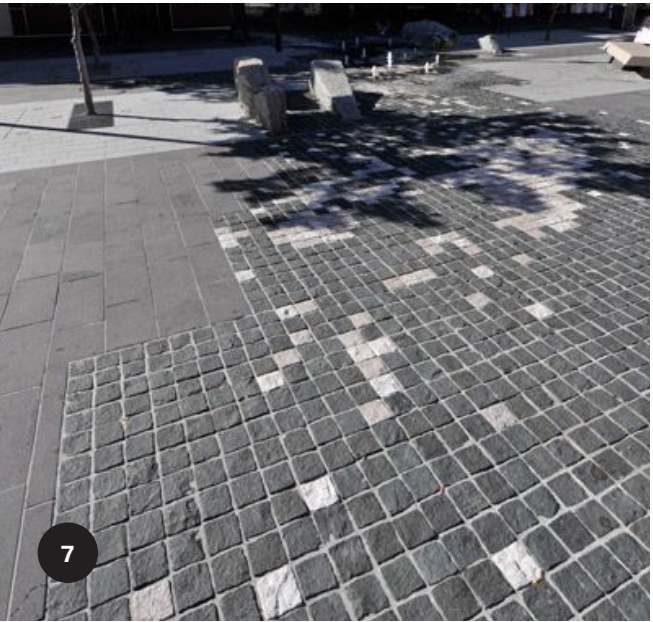
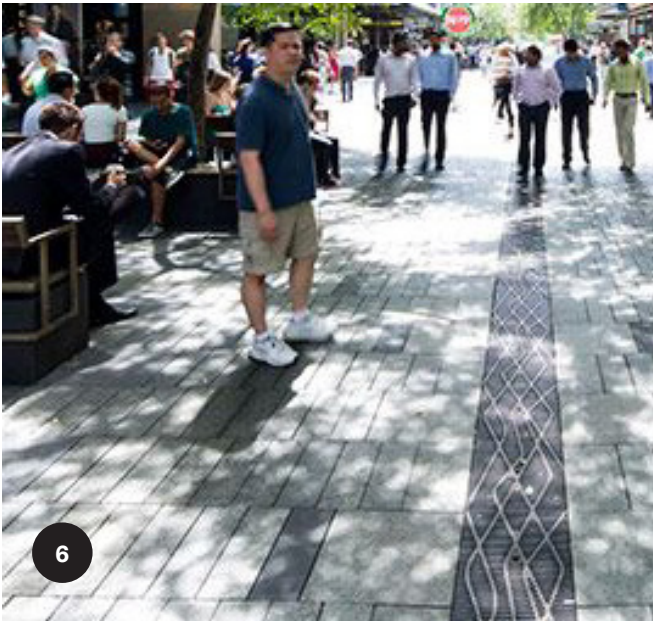
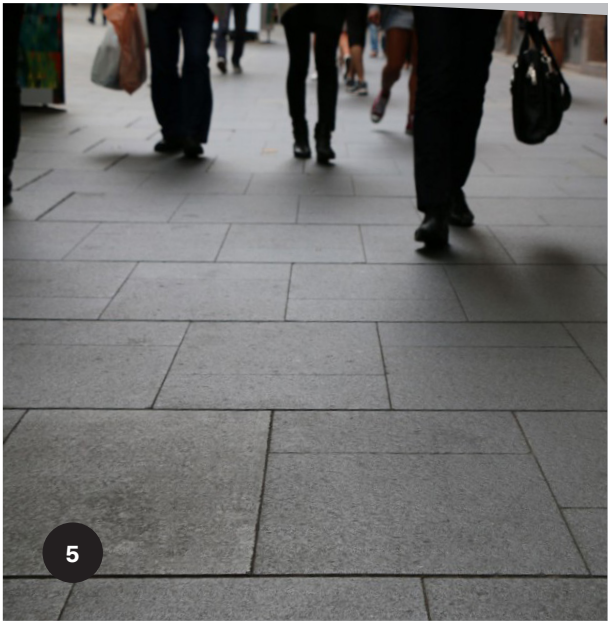
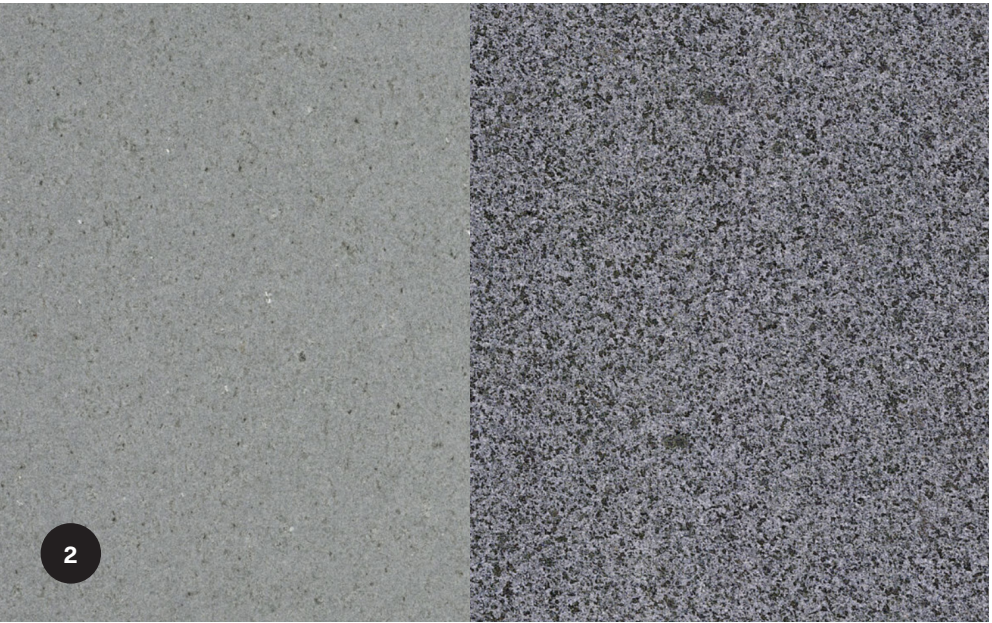
LEGEND

	Large format custom stone pattern for primary circulation zones (Vehicular Grade)
	Medium format custom stone pattern for Civic Square zone (Vehicular Grade)
	Small format custom stone pattern for social zones (Pedestrian Grade/ Permeable)
	Pavements to match CBCC standard details



LEGEND

1	Annalyce gold granite
2	Sesame green/ grey granite
3	Noodle finish
4	Flamed finish
5	Large format paving pattern example
6	Medium format paving pattern example
7	Small format paving pattern example



3.8 Technology and Smart City Initiatives

Smart lighting and furniture are proposed through the central spine of Appian Way to add safety and usability features for a more responsive public realm. The reference design currently proposes:

- 1. Smart lighting (smart poles) to provide required lighting, speakers and sound effects, power and charging outlets, water points, wifi access, CCTV and environmental sensors in one clutter free pole.
- 2. Solar bins - CBCC have noted that the use of solar powered bins are being used in other areas of the city. We have proposed two bins in high frequency pedestrian areas to limit the need for maintenance vehicles and persons to regularly access these bins
- 3. Selected individual and group furniture elements are supported with power outlets and LED lighting to enable short and long term uses throughout the day and night

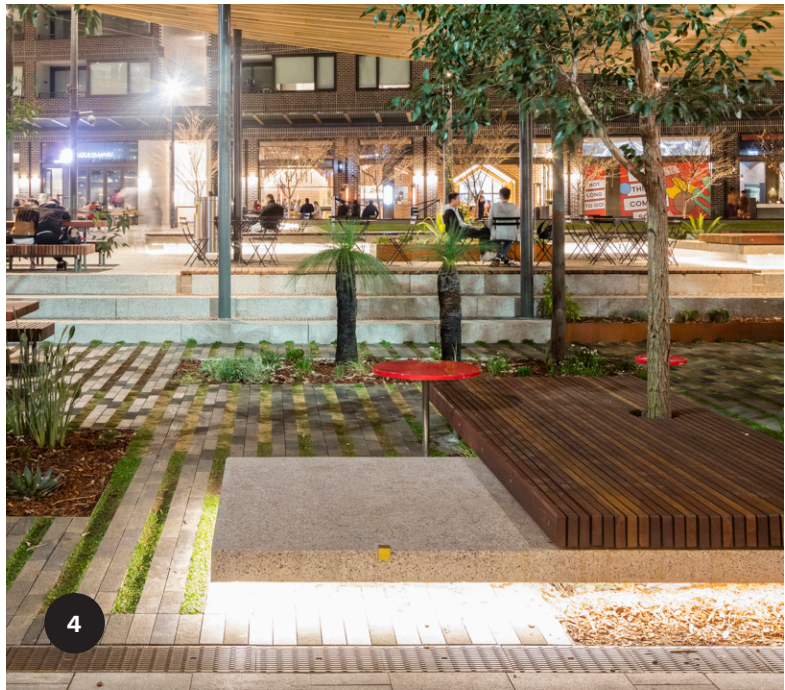
LEGEND

	LED under bench lighting and power supply within central spine
	Opportunity for temporary commercial space, coffee carts, and events power supply
	Future opportunity for feature overhead lighting
	Hess Smart Pole Lighting or similar - number of poles and spacing for light distribution TBC
	Self compacting solar panel smart bins



LEGEND

1	Hess Smart Pole
2	Hess Smart Pole - integrated signage
3	Hess Smart Pole - with integrated power and water features
4	Bench lighting
5	Solar powered smart bins

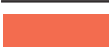


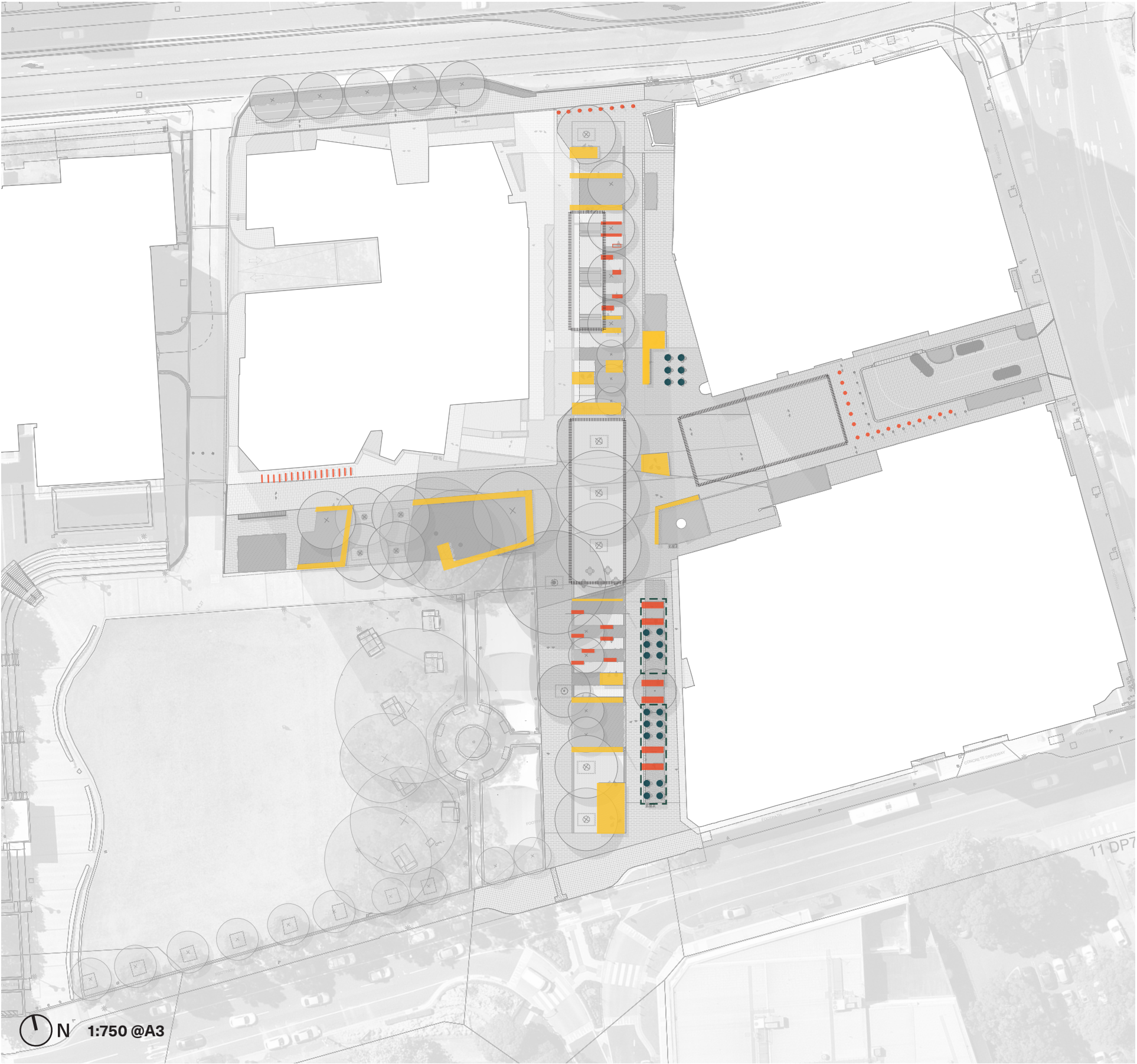
3.9 Furniture

High quality custom and proprietary outdoor furniture is proposed throughout the central spine of Appian Way for a human responsive public realm. The reference design currently proposes:

- 1. Custom fixed furniture that invites people to activate the central green and blue spine between retail tenancies and the park. Designed as a “family of objects”, the series of furniture will provide individual and group seating facing in multiple directions and at various heights to encourage various types of occupation. Selected elements will have compliant back and arm rests, strip lighting, and two phase power built in.
- 2. A standard furniture range which is aligned to CBCC street furniture along The Appian Way where more typical furniture arrangements are suitable

LEGEND

	High quality timber and concrete bench seating - all various sizes and configurations
	Proprietary timber and steel bench seating with armrests and backrests
	Proprietary cafe seating by others
	Bike hoops
	Impact resistant bollards at 1.8m CTRS
	Opportunity for overhead shade structure
	Proposed flexible use and event zone



LEGEND

1	Indicative shade structure
2	Proprietary outdoor dining furniture - suggest design guidelines implemented for The Appian Way
3	Custom and proprietary outdoor furniture proposed
4	Individual and group seating
5	Bike hoops in accordance to CBCC standards



3.10 Trees and Planting

The tree and planting palette is to be considered a reference only. The design has currently focused on ensuring adequate species variation, mature size, quantity and suitable pot size is addressed at this time. Further tree and plant selection will occur during concept development. Large natives are placed at the north-eastern corner of Paul Keating park to mark and provide shade for the Appian Way and Civic Drive intersection, which forms the central plaza of the site. Transitioning from this point, a series of medium and small sized trees are curated along movement corridors and over gathering spaces, providing shade and serving as a buffer between pedestrian and vehicular movements. The reference design currently proposes:

1. Three categories of trees : large, medium, and small. The palette features varying sized trees through out and uses large ornamental natives and smaller exotic deciduous species where suitable.
2. All trees have been specified at a minimum of 200L pot size. Trees larger than 200L and up to 1000L will need to be selected in advance from advanced tree growers during design development
3. Planting, which will be predominately native needs to be robust and layered in a public domain environment. As such we have proposed a minimum rate of planting to be 9 plants per m² to allow for a layering of groundcovers, grasses and accent shrubs throughout the green and blue spine.

Key issues for trees and planting include:

- Engagement with Sydney Water regarding tree planting in proximity to drainage assets including approval of trees shown on Rickard Road .
- Selection and procurement of advanced trees and contract grown stock.
- Shade and canopy cover study to be prepared for design development to ensure canopy cover provided aligns with CBCC’s urban canopy cover projections.

LEGEND

	Retained tree
	Proposed large tree
	Proposed medium sized tree
	Proposed small tree



Botanic Name	Common Name	Size (HxW)	Origin	Minimum installation Size
Large Trees >15m (h)				
<i>Corymbia citriodora</i>	Lemon-scented Gum	20-35m x 12-18m	Native	200L
<i>Corymbia maculata</i>	Spotted Gum	25-40m x 8-10m	Native	200L
<i>Eucalyptus crebra</i>	Narrow-leaved Ironbark	30m x 0.7m	Native	200L
Medium Trees 8m - 15m (h)				
<i>Brachychiton populneum</i>	Kurrajong	10 x 8m	Native	200L
<i>Liriodendron tulipifera</i>	Tulip tree	12-15m x 8-10m	Exotic	200L
<i>Fraxinus excelsior</i> 'Aurea'	Golden Ash	14m x 10m	Exotic	200L
Small Trees <8m (h)				
<i>Lagerstromia indica</i>	Crepe Myrtle	8m - 5-10m	Exotic	200L
<i>Corymbia ficifolia</i>	Scarlet-flowered Gum	6-8m x 6-8m	Native	200L

Large Trees (>12m)



Corymbia citriodora (Lemon-Scented Gum)

Corymbia maculata (Spotted Gum)

Eucalyptus crebra (Narrow-leaved Ironbark)

Medium Trees (8m -15m)



Brachychiton populneum (Kurrajong)

Liriodendron tulipifera (Tulip tree)

Sapium sebiferum (Chinese Tallowood)

Small Tree (<8m)



Lagerstroemia indica (Crepe Myrtle)

Corymbia ficifolia (Scarlet-flowered Gum)

Botanic Name	Common Name	Size (HxW)	Origin	Installation Size
Ground Cover				
<i>Chrysocphalum apiculatum</i>	Common Everlasting	0.3-0.9m x0.1-0.3m	Native	150mm
<i>Helichrysum petiolare</i>	Liquorice Plant	0.75m x 1.25m	Native	150mm
<i>Patersonia occidentalis</i>	Native Iris	0.3-0.45m x 0.45m	Native	150mm
Rain Garden				
<i>Carex testacea</i>	Orange Sedge	0.3-0.6m x 0.3x0.6m	Native	150mm
<i>Ficinia nodosa</i>	Knobby Club-Rush	0.5-1.5m x 0.6-2m	Native	150mm
<i>Dianella longlifolia</i>	Matted Flax Lily	0.3-0.9m x 1m	Native	150mm
Accent Planting				
<i>Anigozanthos sp</i>	Kangaroo Paw	0.75 - 1m x 0.75m	Native	150mm
<i>Banksia spinulosa 'Birthday Candles'</i>	Hairpin Banksia	0.4-0.5m x 1-1.5m	Native	150mm
<i>Leucaphyta brownii</i>	Cushion Bush	1m x 2m	Native	150mm

Ground Cover

A dense cluster of small yellow flowers on thin, silvery-grey stems.

A large, bushy plant with many small, white, star-shaped flowers.

A clump of tall, thin, reddish-brown stems with small, purple, bell-shaped flowers.

Chrysocphalum apiculatum (Common Everlasting)

Helichrysum petiolare (Liquorice Plant)

Patersonia occidentalis (Native Iris)

Rain Garden

A clump of tall, thin, orange-brown grass-like plants.

A clump of tall, thin, green plants with small, brown, knobby flower heads.

A clump of tall, thin, green plants with small, purple, bell-shaped flowers.

Carex testacea (Orange Sedge)

Ficinia nodosa (Knobby Club-rush)

Dianella longlifolia (Matted Flax Lily)

Accent Planting

A close-up of a plant with long, narrow, green leaves and small, red, tubular flowers.

A clump of a plant with many small, brown, knobby flower heads.

A clump of a plant with many small, white, star-shaped flowers.

Eremophila decipiens (narrow-leaved fuchsia bush)

Banksia spinulosa 'Birthday Candles' (Hairpin Banksia)

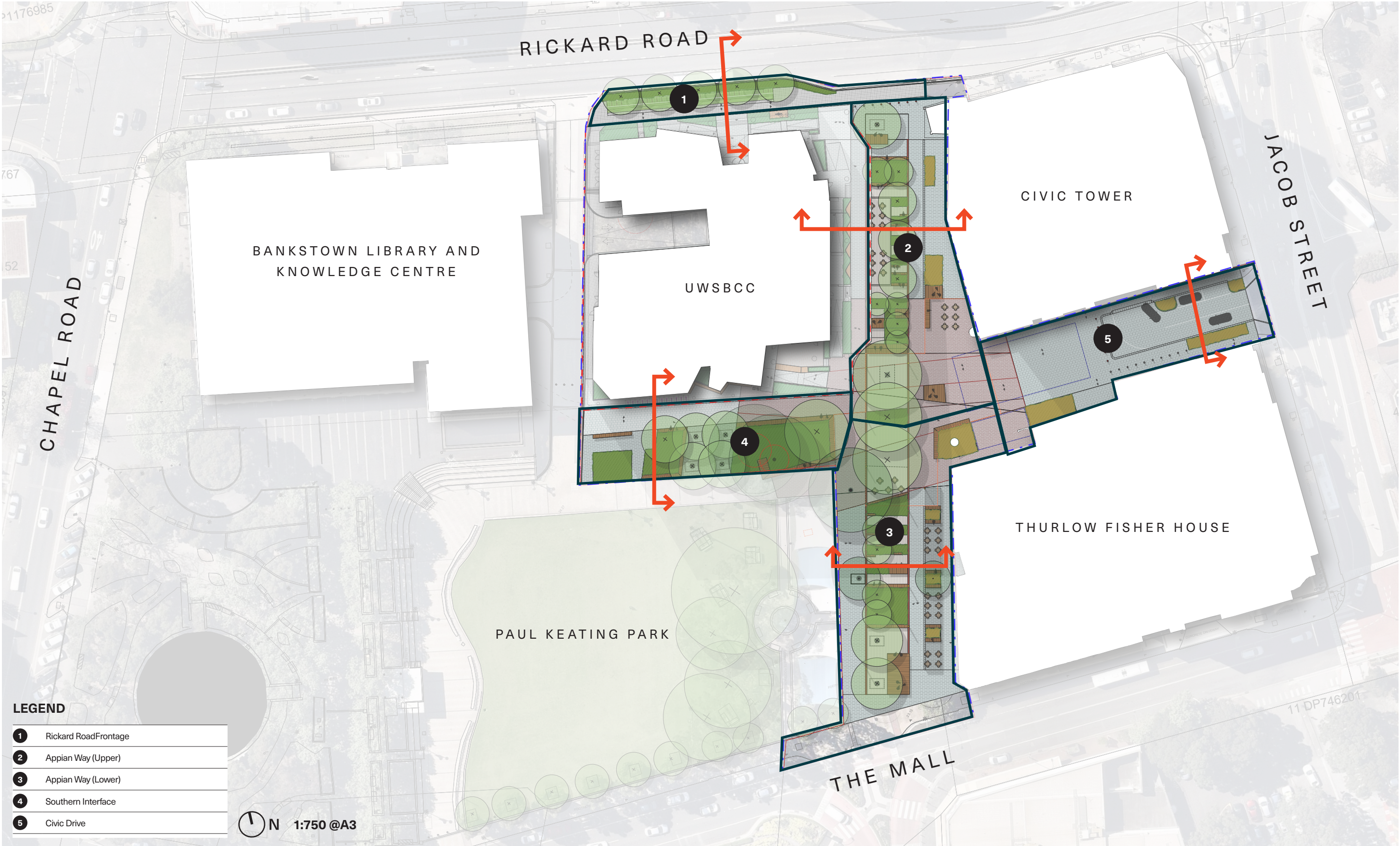
Leucaphyta brownii (Cushion bush)

Public Spaces



The Clouds
Sydney NSW Australia

4.1 Public Spaces Overview

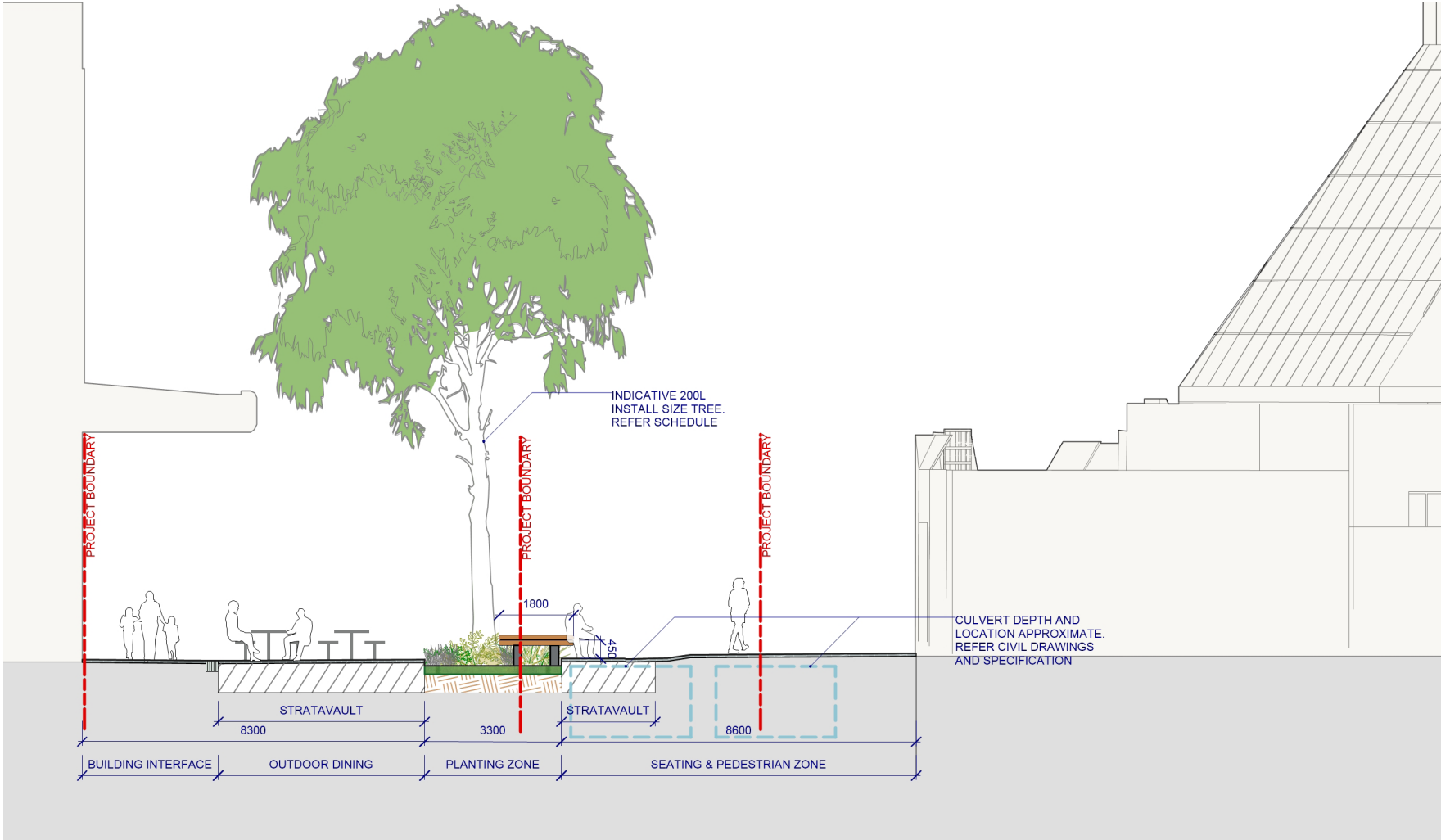


4.2 Appian Way (Upper)

LEGEND

- 1 Northern Entry Plaza
- 2 Outdoor fixed furniture zone
- 3 Casual seating and gathering spaces with bands raingarden and tree planting
- 4 Flexible paved area to provide opportunity for activation
- 5 Opportunity for future Food and Beverage activity





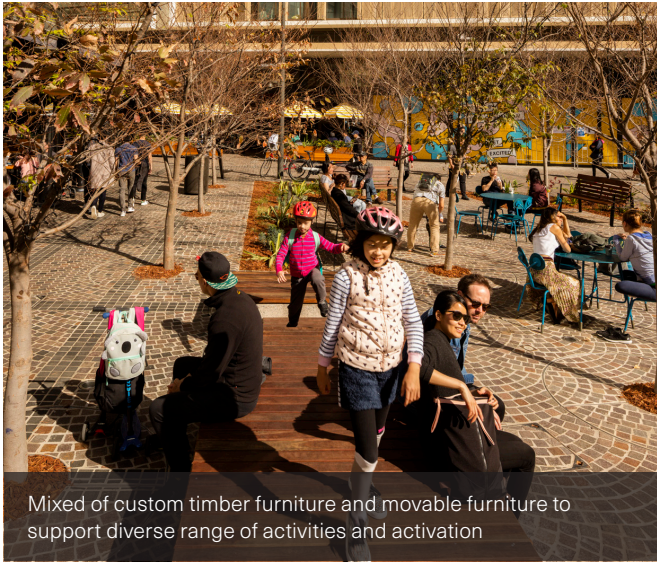
1:150 Section - Appian Way (Upper)



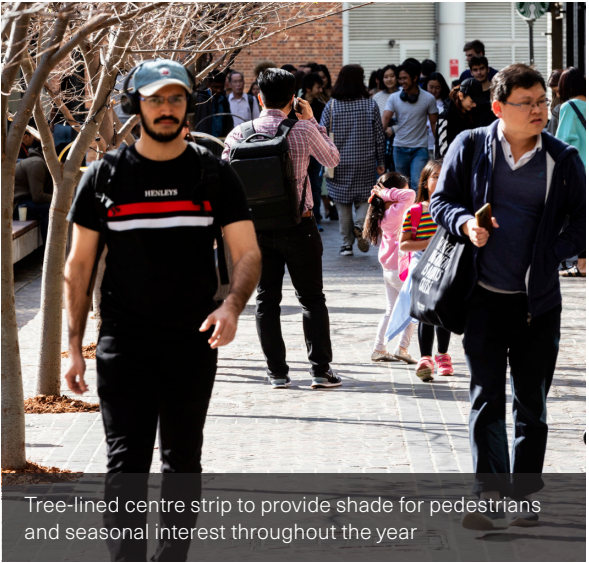
Fixed furniture elements to allow for casual outdoor dining



Strategically placed raingardens to facilitate WSUD approach and to soften the public space



Mixed of custom timber furniture and movable furniture to support diverse range of activities and activation



Tree-lined centre strip to provide shade for pedestrians and seasonal interest throughout the year



View looking south



View looking south-west

4.3 Appian Way (Lower)

LEGEND

1

Flexible gathering/ event space with movable furniture

2

Central gathering space with custom timber seating

3

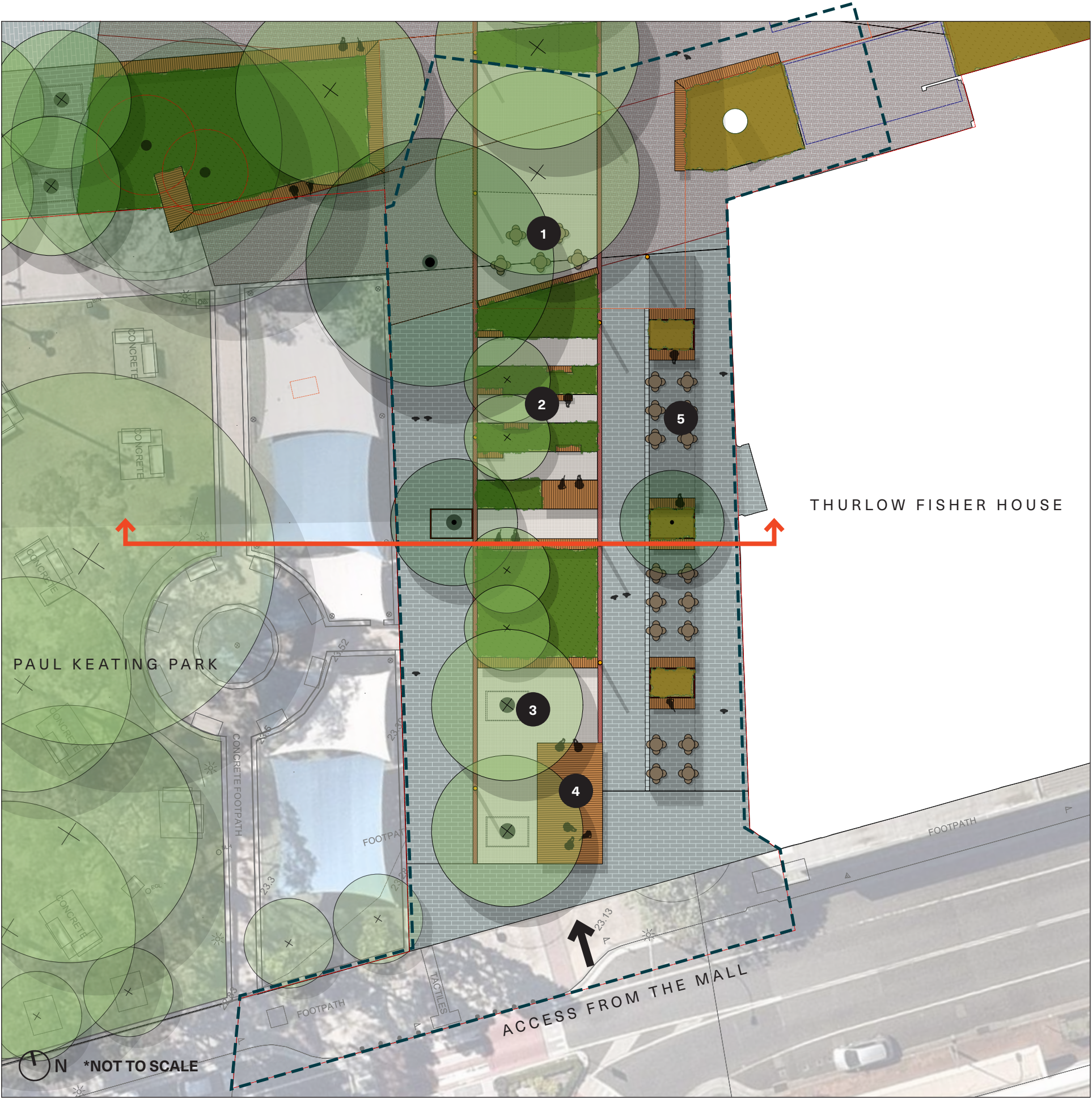
Southern Entry Plaza

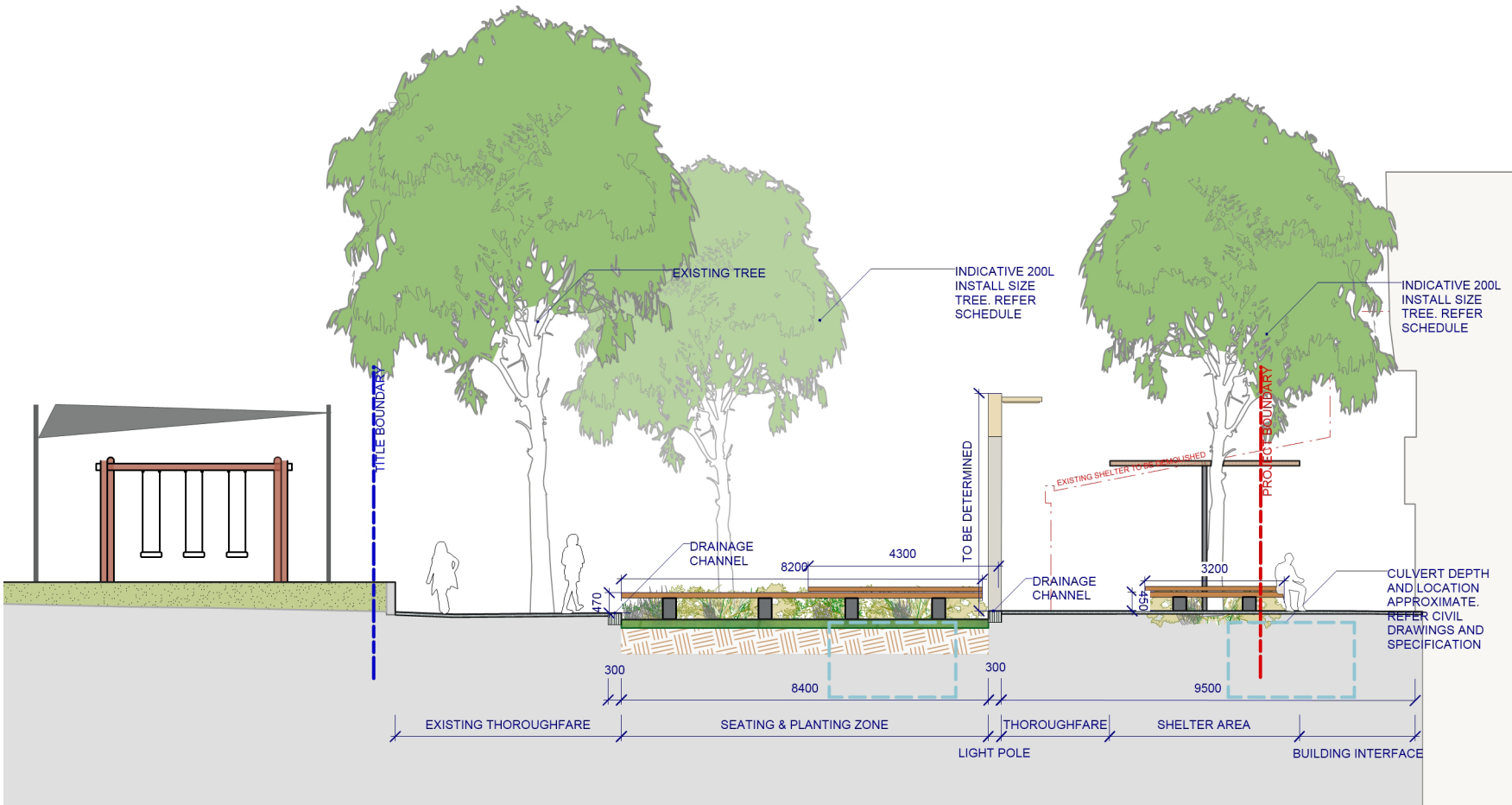
4

Timber platform over stormwater inlet to allow for appropriation and casual gathering

5

Outdoor dining area with movable furniture from vendors

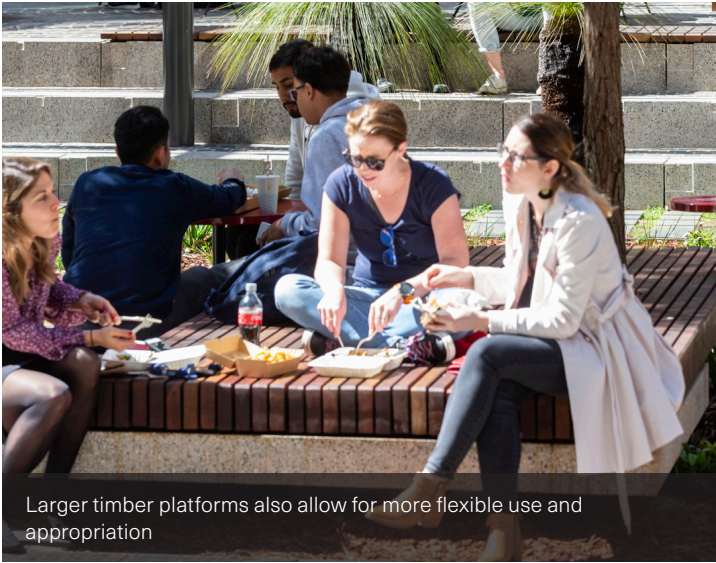




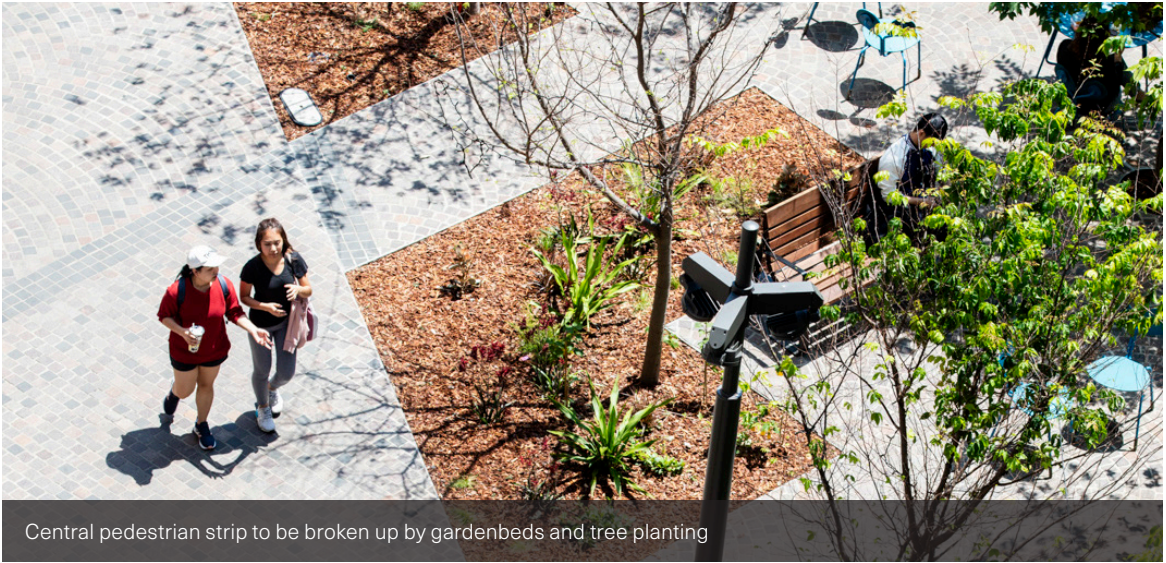
1:150 Section - Appian Way (Lower)



Custom timber furniture with embedded lighting to ensure a safe and welcoming space



Larger timber platforms also allow for more flexible use and appropriation



Central pedestrian strip to be broken up by gardenbeds and tree planting

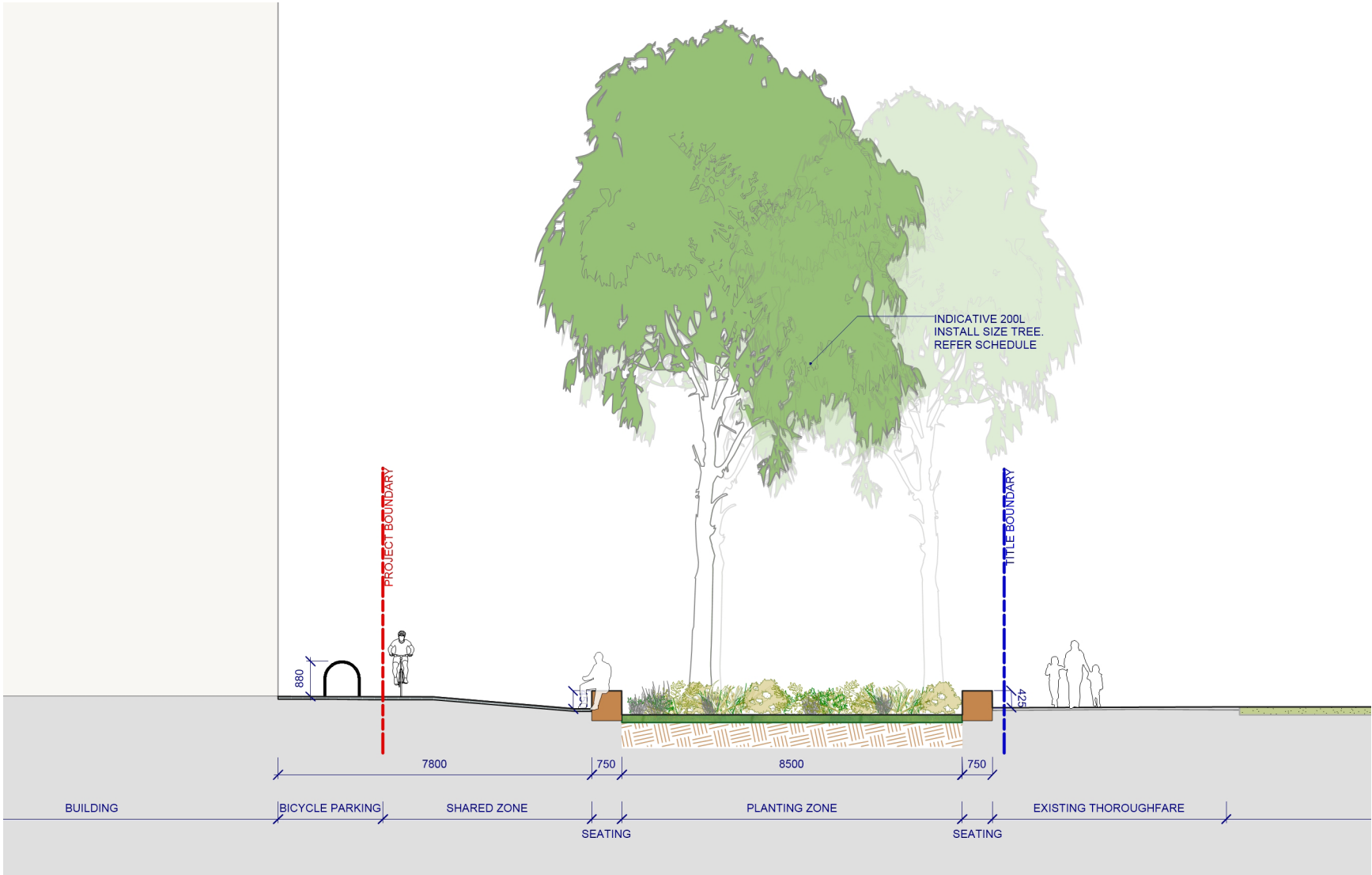


4.4 Southern Interface

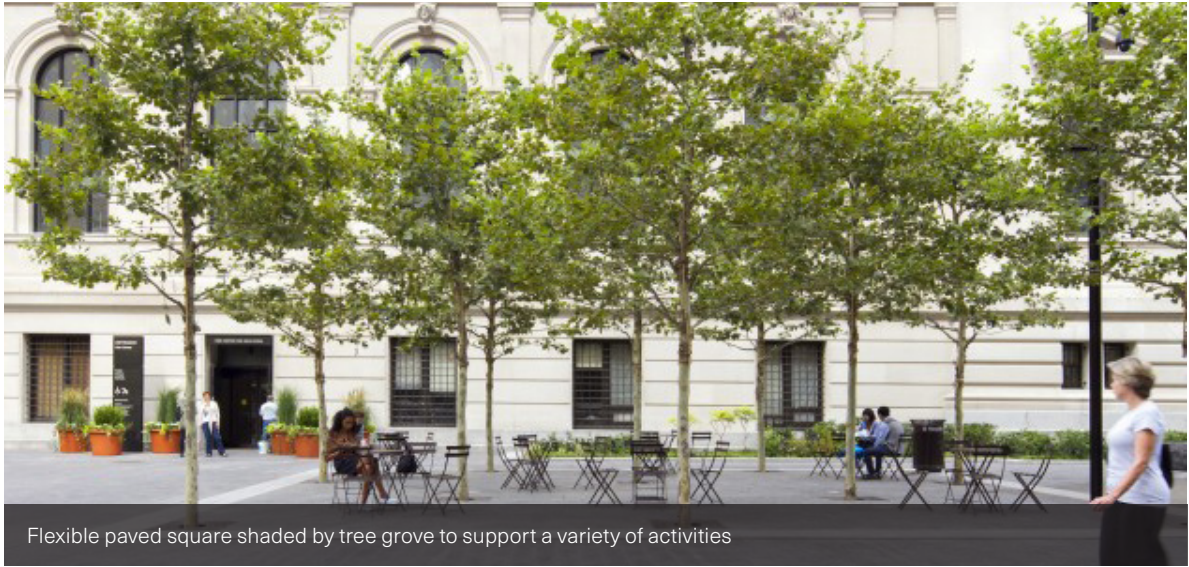
LEGEND

- 1 Exotic deciduous trees to provide shelter and foliage interest throughout seasonal change
- 2 Custom timber bench
- 3 Existing pedestrian walkway





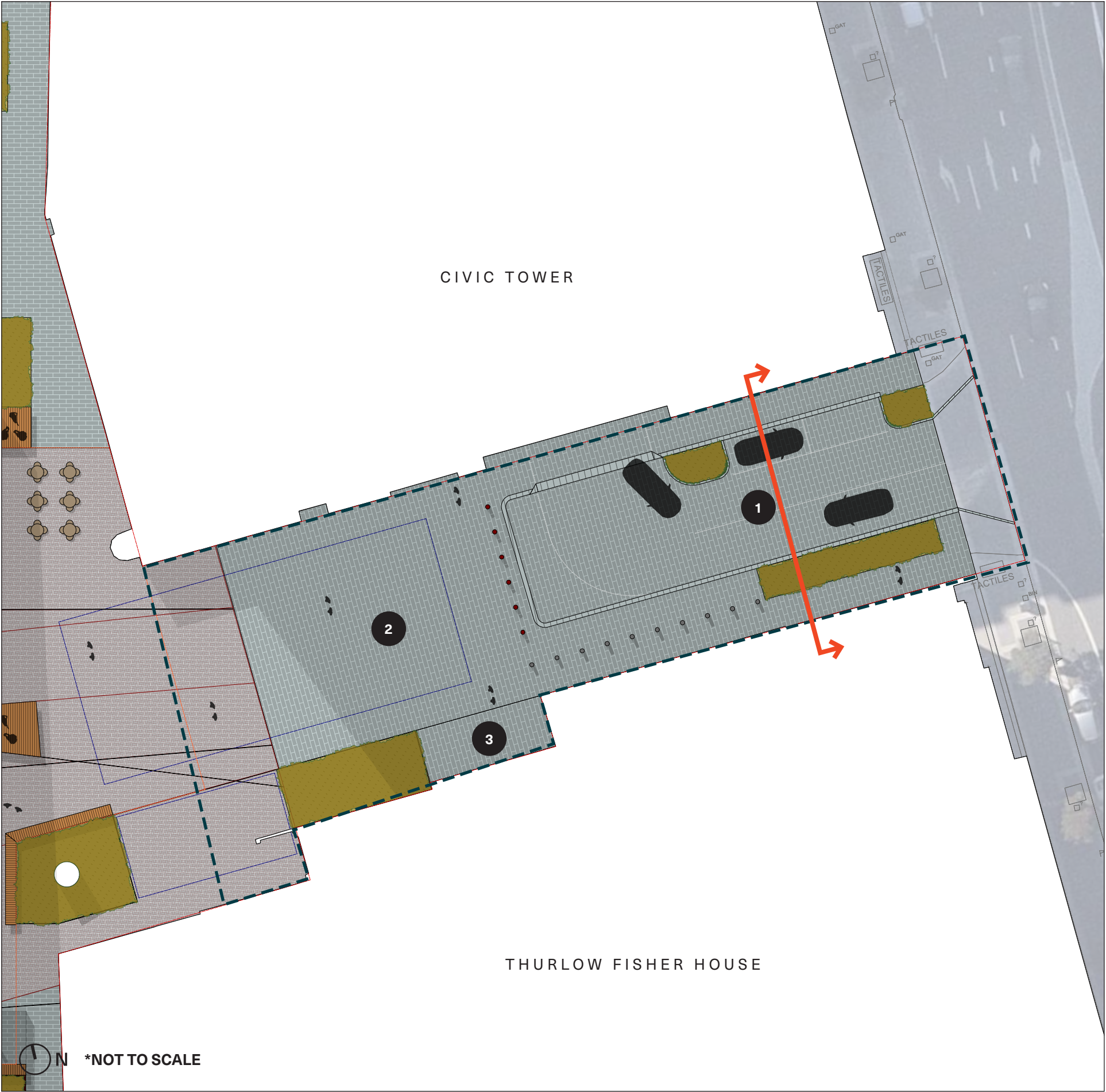
1:150 Section - Southern Interface

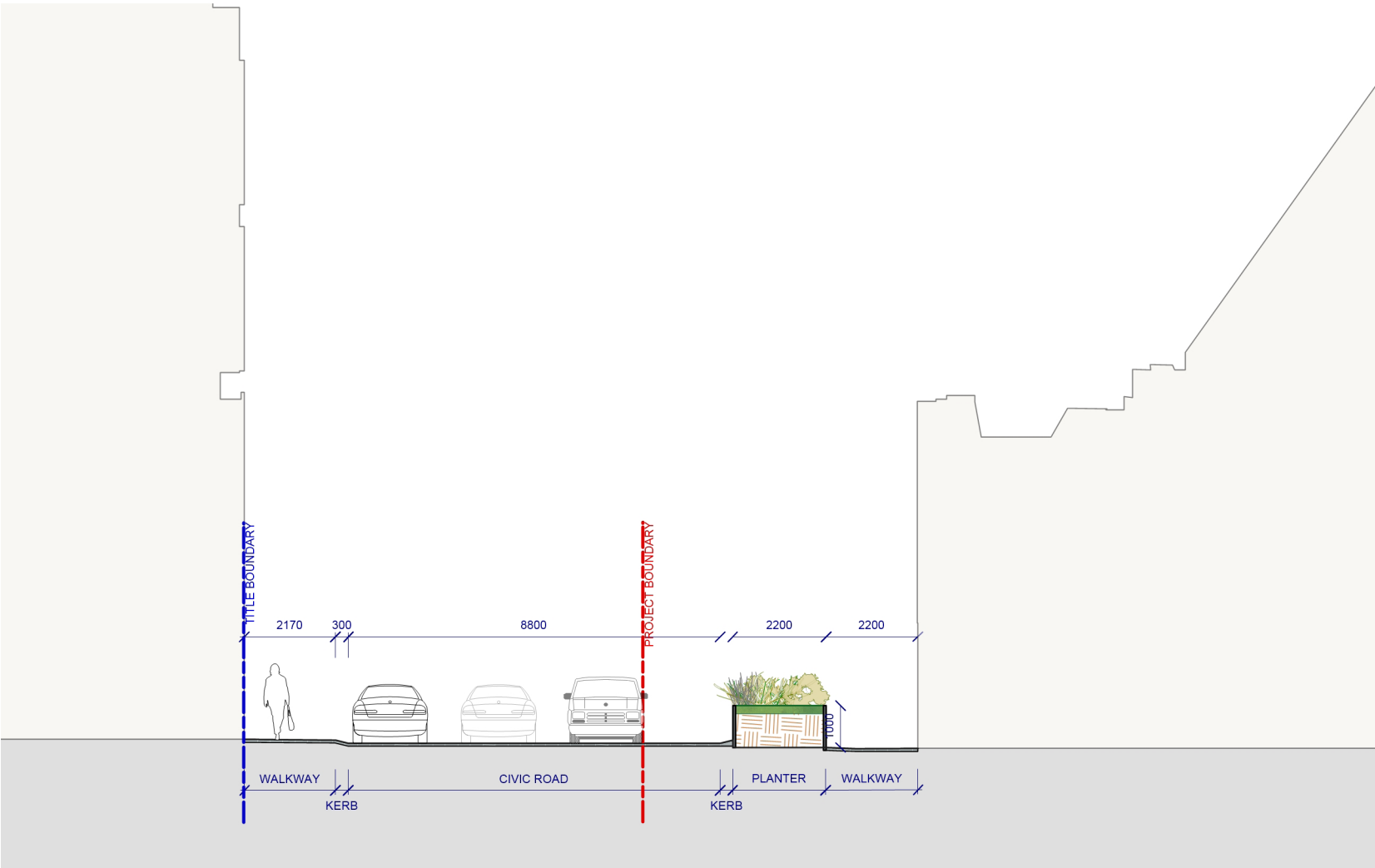


4.5 Civic Drive

LEGEND

- 1 Vehicle circulation and access into the Civic Tower
- 2 Pedestrian walkway and square
- 3 Loading dock to Thurlow Fisher House





1:150 Section - Civic Drive



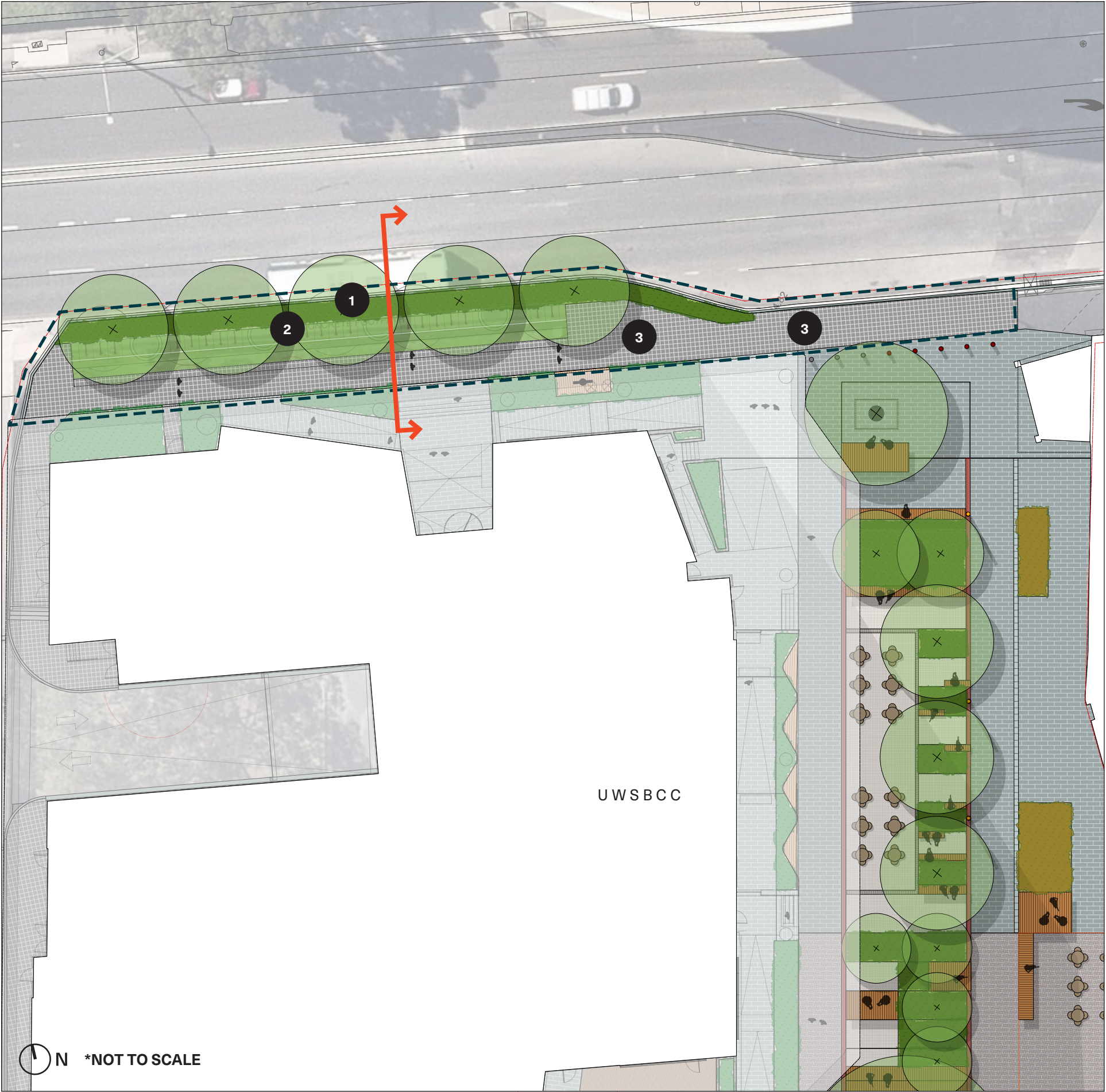
Removable bollard

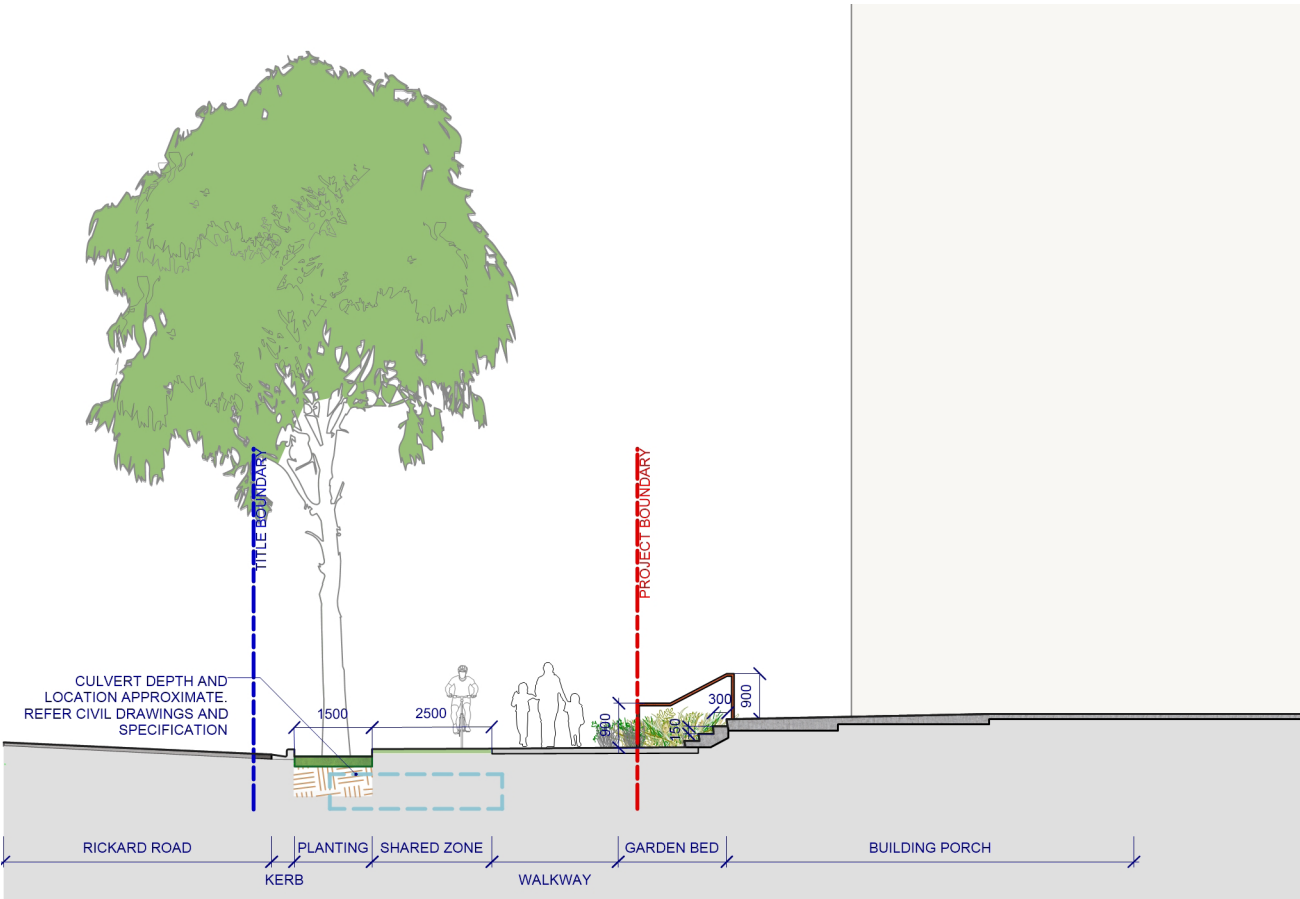


4.6 Rickard Road Frontage

LEGEND

- 1 Vegetated buffer between Rickard Road and pedestrian footpath
- 2 Proposed two way cycle lane
- 3 Merging of dedicated cycle lane and pedestrian footpath
- 4 Shared-user path for cyclists and pedestrians





1:150 Section - Rickard Road Frontage



Dedicated cycle lane with vegetated buffer to the road

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WSU BANKSTOWN CITY CAMPUS

VPA SCOPE OF WORKS - REFERENCE DESIGN FOR THE APPIAN WAY

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1 SITE AERIAL (Source: Nearmap.com)
NTS

DRAWING REGISTER

SHEET NUMBER	SHEET NAME	REV	DATE
LA-1001	COVER SHEET, DRAWING REGISTER & LOCATION PLAN	A	27.11.20
LA-1002	OVERALL LANDSCAPE LEGEND	A	27.11.20
LA-1101	SCOPE PLAN	A	27.11.20
LA-1102	EXISTING CONDITIONS & DEMOLITION PLAN	A	27.11.20
LA-1103	EXISTING & PROPOSED SERVICES & INFRASTRUCTURE PLAN	A	27.11.20
LA-1201	GENERAL ARRANGEMENT PLAN	A	27.11.20
LA-1202	GENERAL ARRANGEMENT PLAN - THE APPIAN WAY NORTH	A	27.11.20
LA-1203	GENERAL ARRANGEMENT PLAN - THE APPIAN WAY SOUTH	A	27.11.20
LA-1204	GENERAL ARRANGEMENT PLAN - CIVIC DRIVE	A	27.11.20
LA-1601	TREE PLANTING PLAN	A	27.11.20
LA-1701	LANDSCAPE SECTIONS - SHEET 1	A	27.11.20
LA-1702	LANDSCAPE SECTIONS - SHEET 2	A	27.11.20
LA-1703	LANDSCAPE SECTIONS - SHEET 3	A	27.11.20
LA-1704	LANDSCAPE SECTIONS - SHEET 4	A	27.11.20
LA-1705	LANDSCAPE SECTIONS - SHEET 5	A	27.11.20

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DRAWING
COVER SHEET, DRAWING REGISTER & LOCATION PLAN

DRAWING NO. **LA-1001** **REVISION** **A**

OVERALL LEGEND

GENERAL EXTENTS

- EXTENT OF WORKS
- TITLE BOUNDARY

PAVEMENTS & SURFACES

- PV01A LARGE FORMAT UNIT PAVING ON STRUCTURE
- PV01B LARGE FORMAT UNIT PAVING ON GRADE
- PV02 FEATURE EDGE UNIT PAVING ON STRUCTURE
- PV03 SMALL FORMAT PAVING ON GRADE
- PV04 MEDIUM FEATURE STONE UNIT PAVING ON GRADE
- PV05 CITY OF CANTERBURY BANKSTOWN STANDARD PAVING
- PV06 BICYCLE PATH GRAPHIC
- WSU STONE PAVING (NOT IN SCOPE)
- TIMBER DECKING (NOT IN SCOPE)

WALL, EDGES & KERBS

- ED01 FEATURE DELINEATION KERB / SPOON DRAIN
- LE01 ALUMINIUM EDGE

STAIRS

- ST01 STAIRS

STRUCTURES

- LS01 BESPOKE SHADE STRUCTURE
- LS02 CATENARY LIGHTING STRUCTURE
- LS03 PERFORATED FEATURE SCREEN

FURNITURE & FIXTURES

- BE01 BENCH - TIMBER WITH CONCRETE BASE
- SE01 SEAT WITH ARMREST - TIMBER WITH CONCRETE BASE
- SE02 PLATFORM - TIMBER WITH CONCRETE BASE
- TA01 DOUBLE WIDTH TABLE WITH BENCHES
- TA02 LOOSE CAFÉ TABLES AND CHAIRS
- BR01 BIKE HOOP
- BN01 SMART OUTDOOR LITTER BIN
- LP01 SMART POLE
- LP02 LIGHT POLE
- BD01 BOLLARD | FIXED
- BD02 BOLLARD | REMOVABLE
- TC01 TACTILE GROUND SURFACE INDICATORS
- SG01 FEATURE TRENCH GRATE
- TG01 TREE GRATE

SOFTSCAPE & PLANTING

- PROPOSED TREE
- EXISTING TREE
- GB01A STANDARD GARDEN BED
- GB01B DEEP GARDEN BED
- WSU GARDEN BED NOT IN SCOPE

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OVERALL LANDSCAPE LEGEND

DRAWING NO.

LA-1002

REVISION

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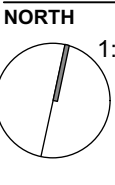
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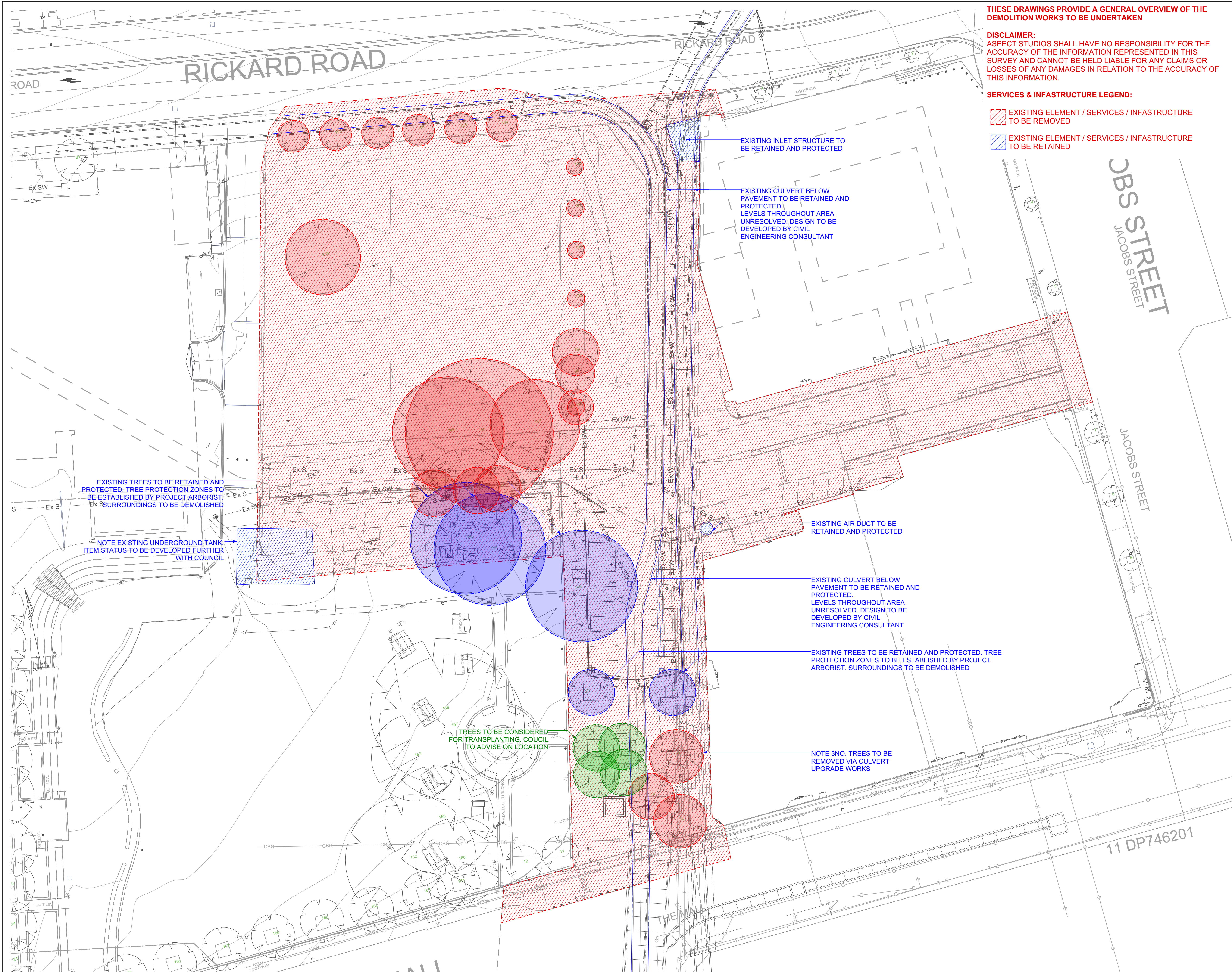
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DEMOLITION PLAN

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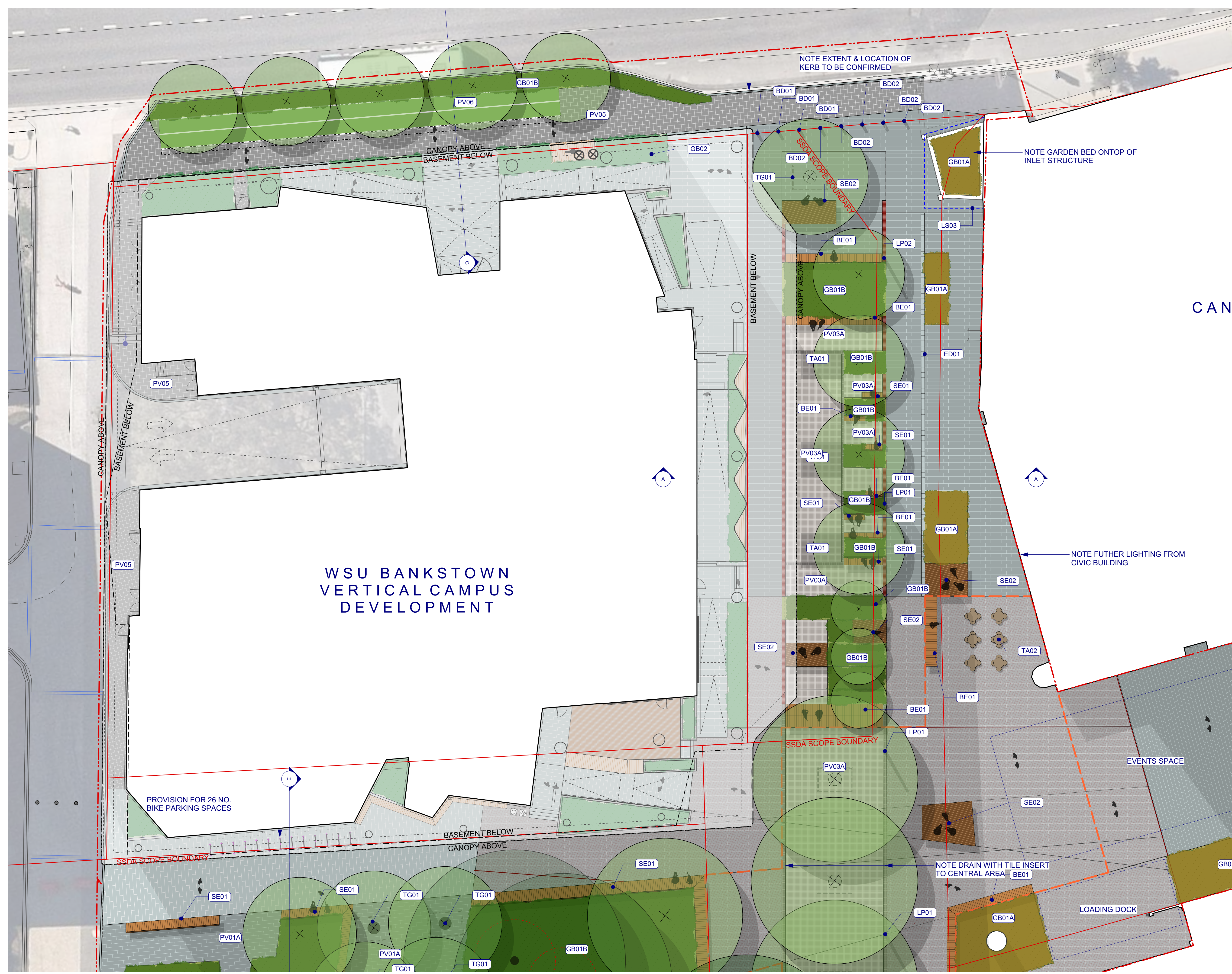
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GENERAL ARRANGEMENT PLAN -
THE APPLAN WAY NORTH

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NORTH
1:150 @ A1 | 1:300 @ A3

SCALE A1 | **SCALE A3**

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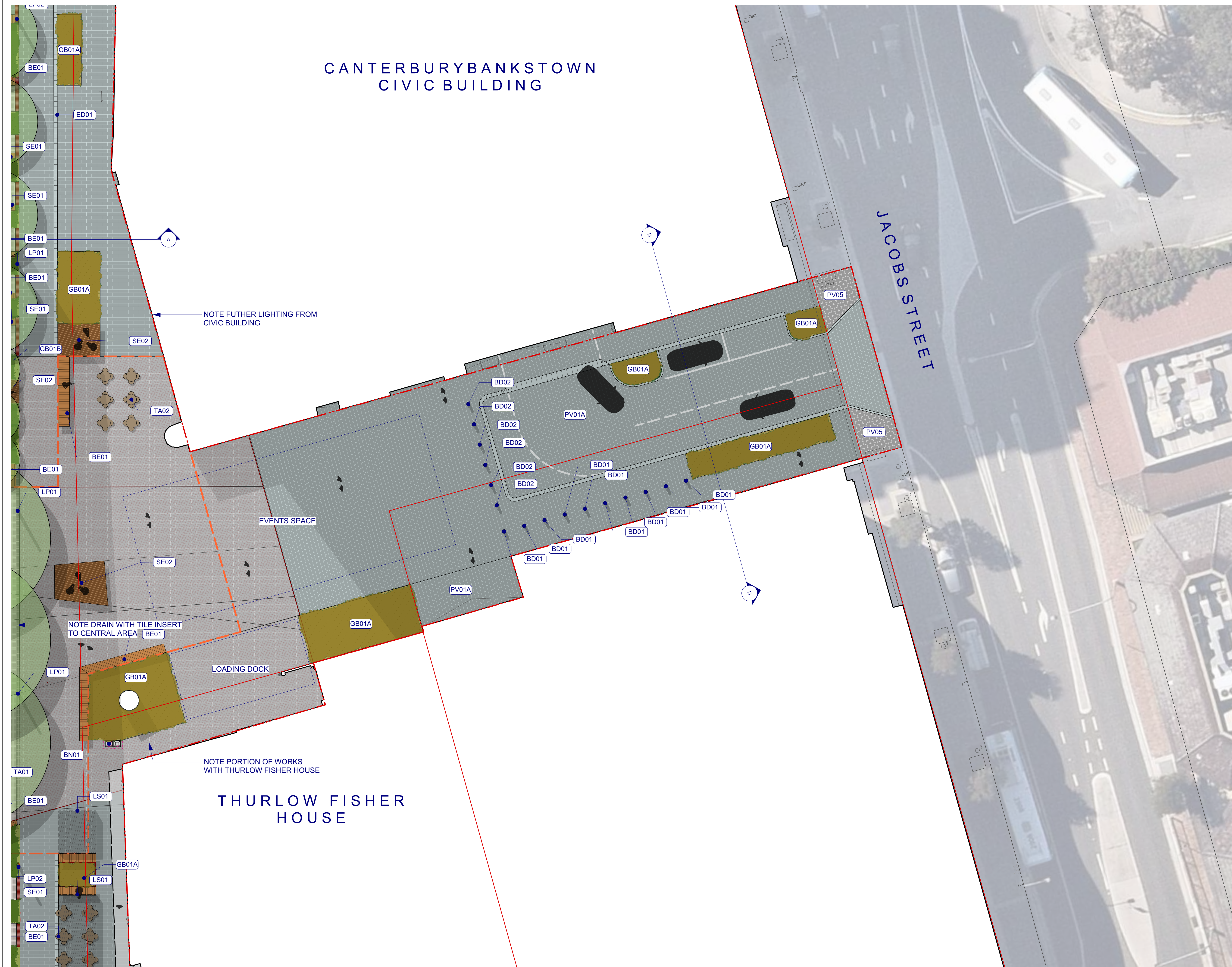
STATUS
PRELIMINARY

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DRAWING
GENERAL ARRANGEMENT PLAN -
THE APPIAN WAY SOUTH

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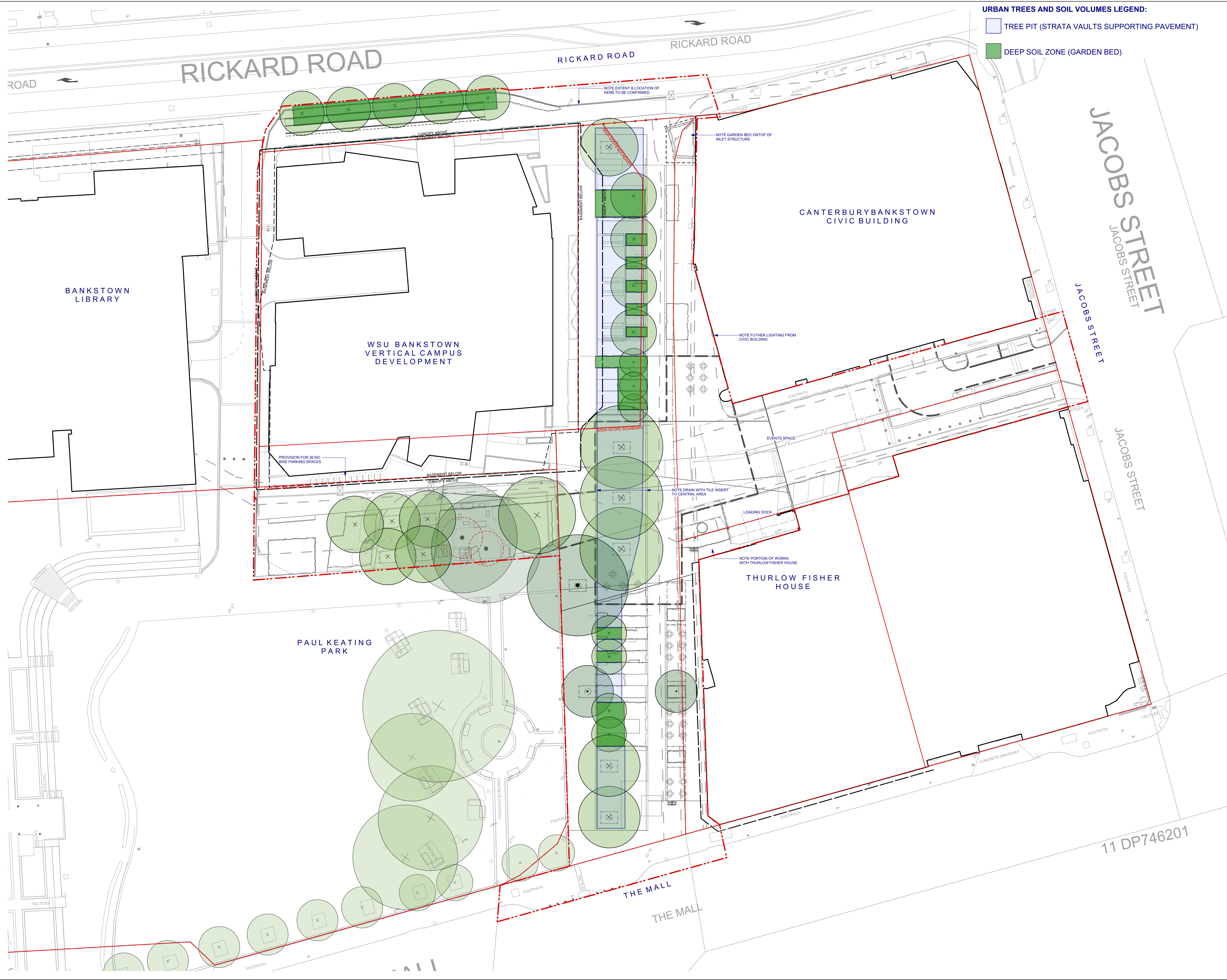
walker
NORTH SCALE A1 | SCALE A3
1:150 @ A1 | 1:300 @ A3
DRAWN BC
CHECKED TF
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STATUS
PRELIMINARY

NOT FOR CONSTRUCTION

DRAWING
GENERAL ARRANGEMENT PLAN -
CIVIC DRIVE

DRAWING NO. LA-1204
REVISION A



- URBAN TREES AND SOIL VOLUMES LEGEND:
- TREE PIT (STRATA VAULTS SUPPORTING PAVEMENT)
 - DEEP SOIL ZONE (GARDEN BED)

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PROJECT
THE APPIAN WAY REFERENCE DESIGN
BANKSTOWN 2200 NSW

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walker

NORTH
SCALE A1 | SCALE A3
1:300 @ A1 | 1:600 @ A3

DRAWN
BC

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TF

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STATUS
PRELIMINARY

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DRAWING
TREE PLANTING PLAN

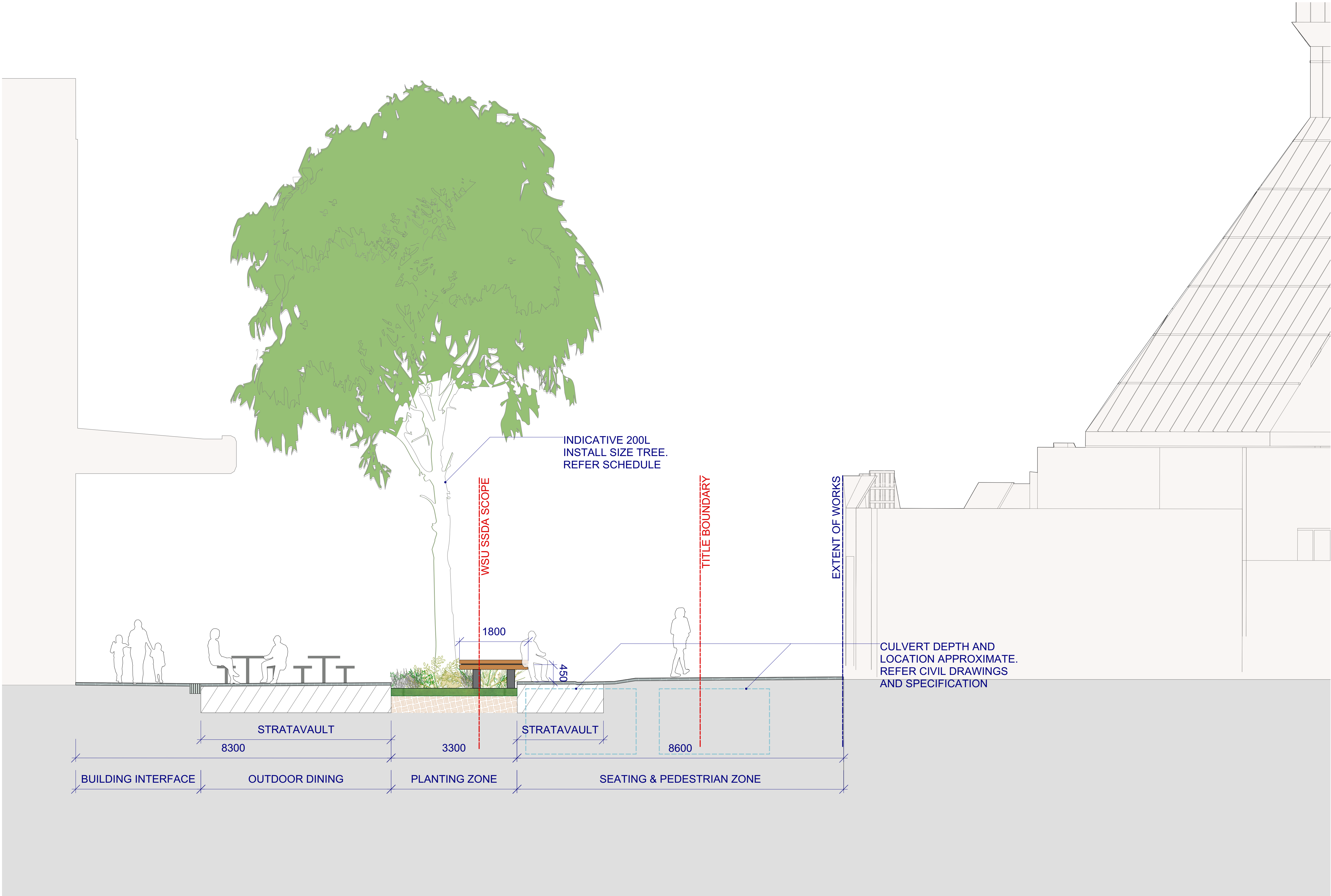
DRAWING NO.
LA-1601

REVISION
A

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NORTH SCALE A1 | SCALE A3 AS SHOWN DRAWN BC CHECKED TF

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STATUS PRELIMINARY

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DRAWING LANDSCAPE SECTIONS - SHEET 1

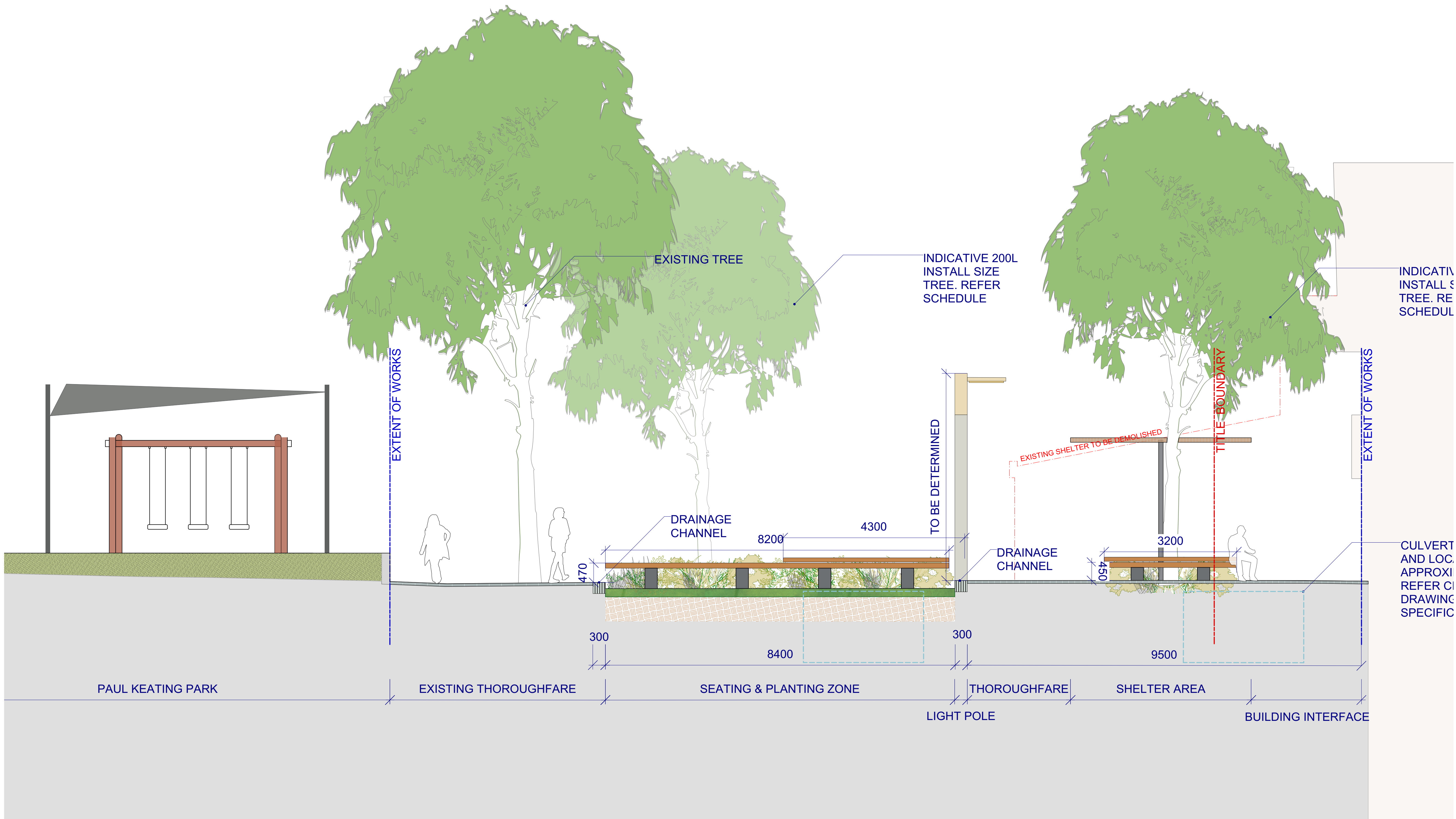
DRAWING NO. LA-1701 REVISION A

1 SECTION A-A: THE APPLAN WAY NORTH
1:50 @ A1 | 1:100 @ A3

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DRAWING
LANDSCAPE SECTIONS - SHEET 2

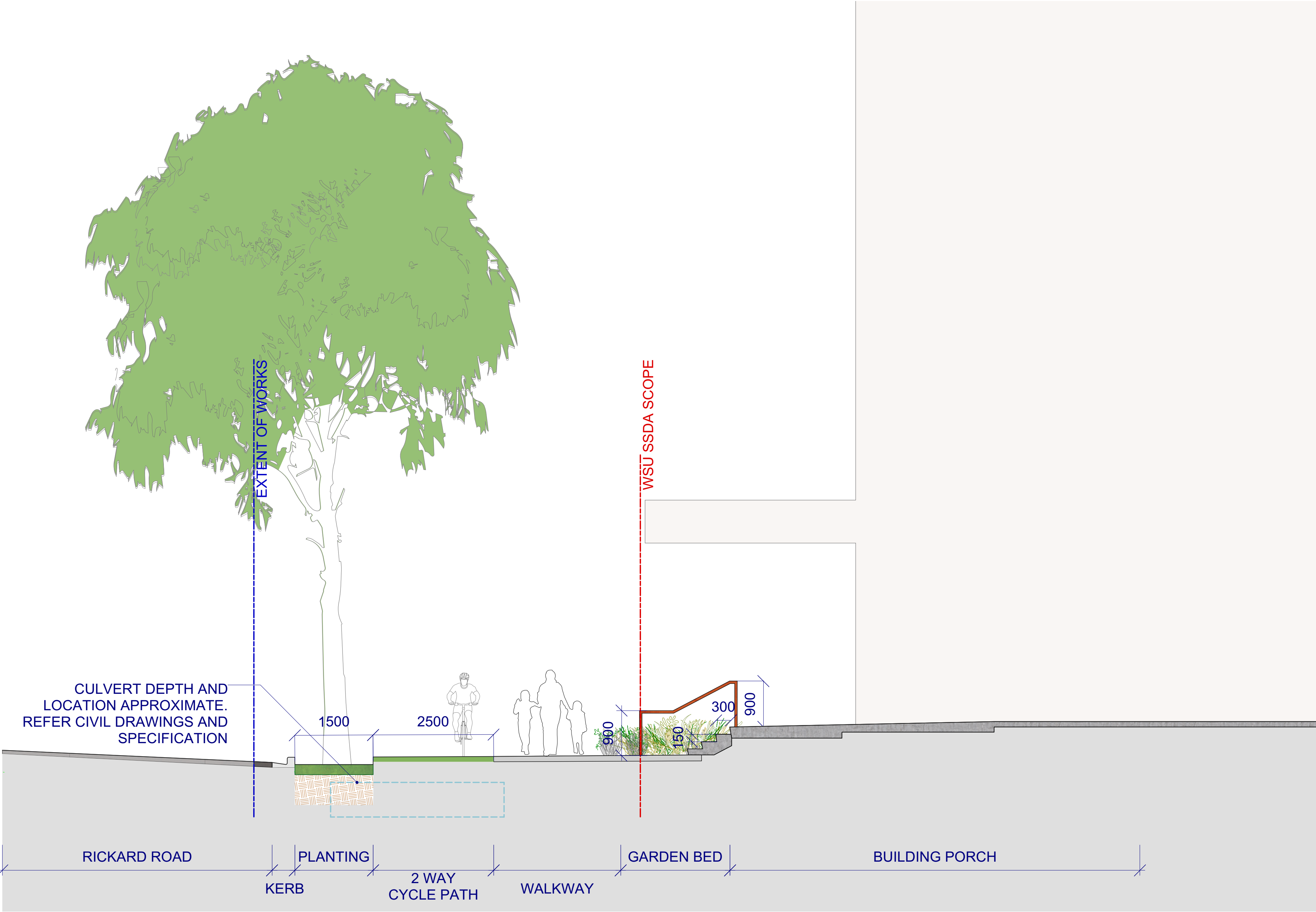
REVISION

DRAWING NO. **LA-1702** REVISION **A**

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1 SECTION C-C: RICKARD ROAD
NTS

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NORTH SCALE A1 SCALE A3
AS SHOWN DRAWN BC CHECKED TF

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STATUS
PRELIMINARY

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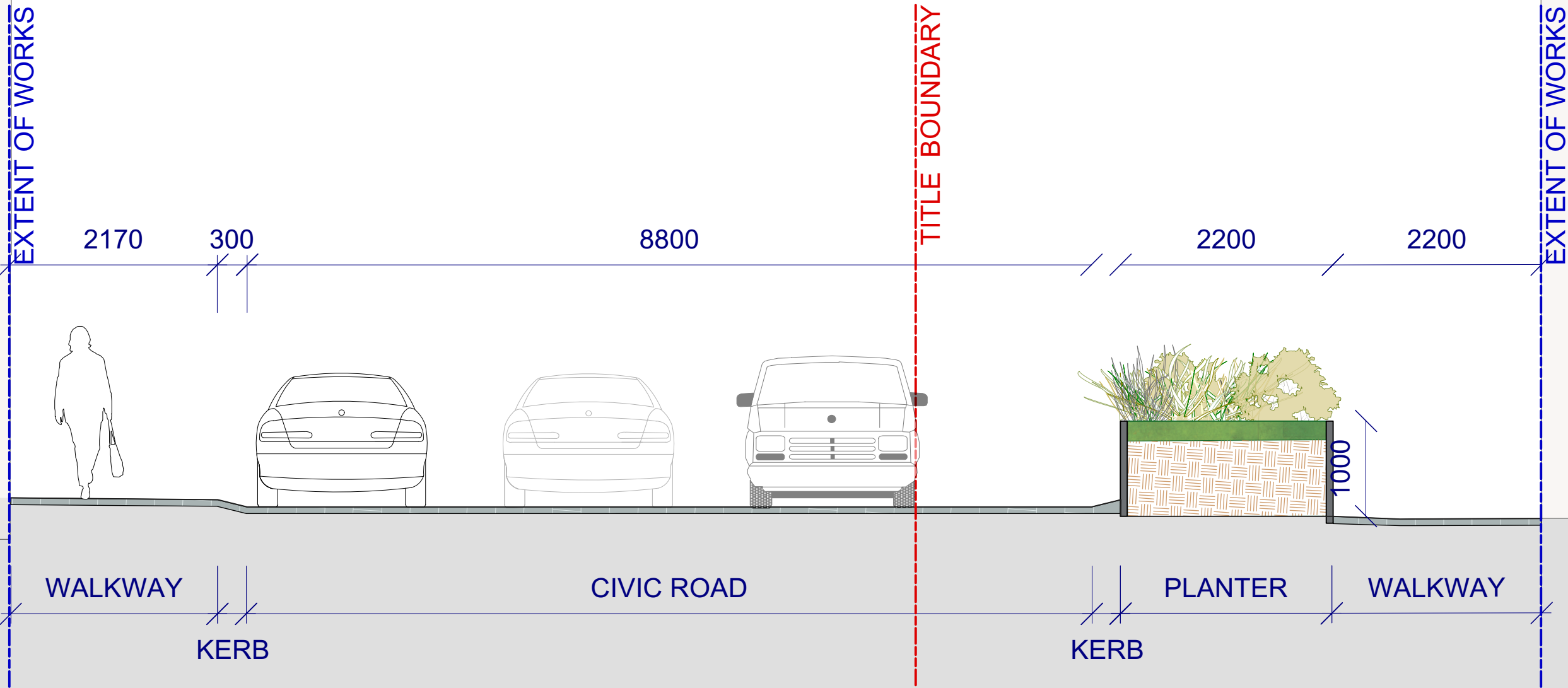
DRAWING
LANDSCAPE SECTIONS - SHEET 3

DRAWING NO. LA-1703 REVISION A

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1 SECTION D-D: CIVIC DRIVE
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AS SHOWN DRAWN BC CHECKED TF

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STATUS
PRELIMINARY

NOT FOR CONSTRUCTION

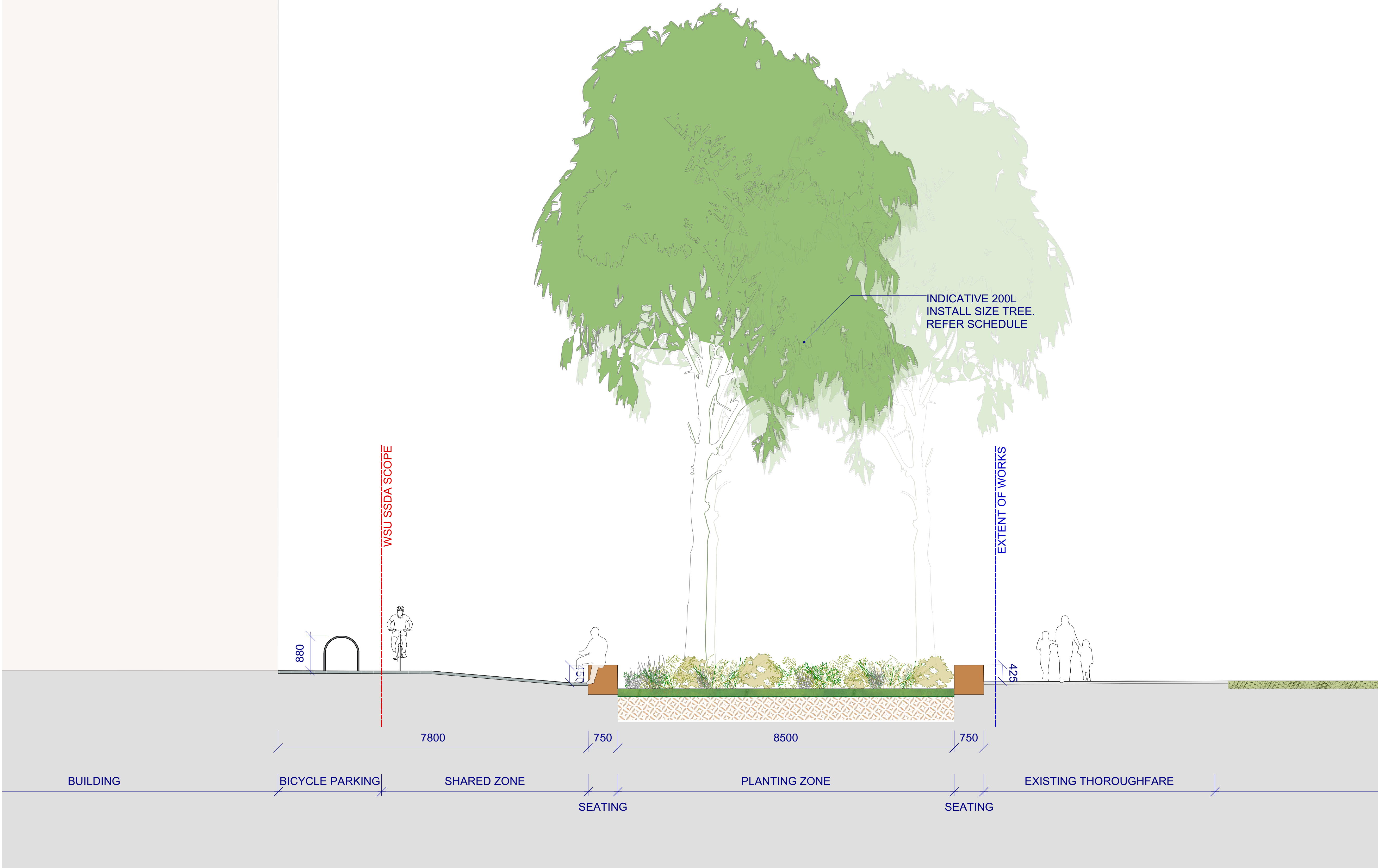
DRAWING
LANDSCAPE SECTIONS - SHEET 4

DRAWING NO. LA-1704 REVISION A

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NORTH **SCALE A1** **SCALE A3** **DRAWN** **CHECKED**
AS SHOWN **BC** **TF**
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STATUS
PRELIMINARY

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DRAWING
LANDSCAPE SECTIONS - SHEET 5

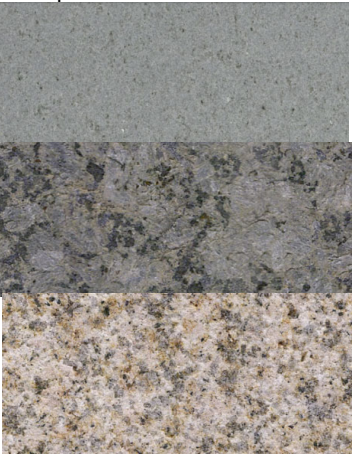
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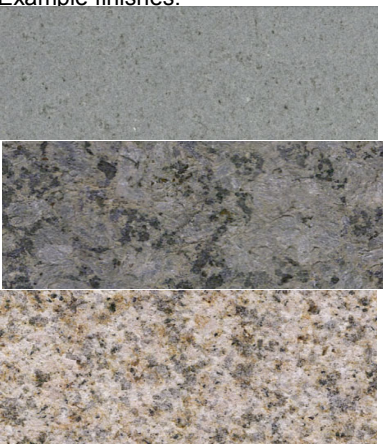
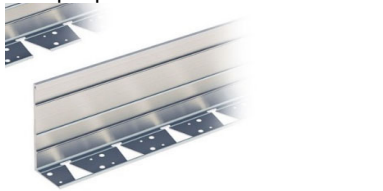
1 SECTION E-E: SOUTH WSU / PAUL KEATING PARK INTERFACE
NTS

Doc No: M18056-LS-1001

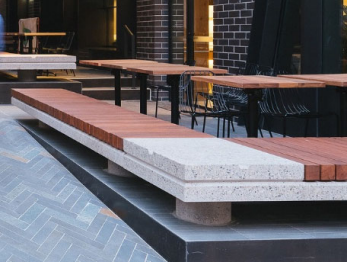
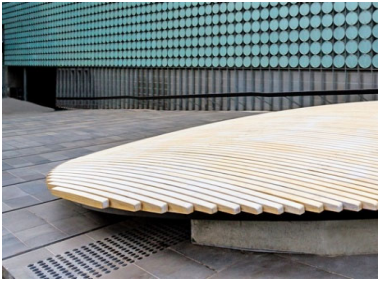
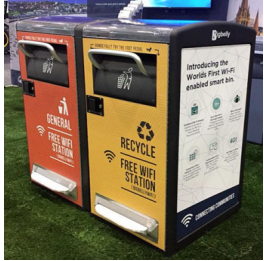
Date: 27.11.2020

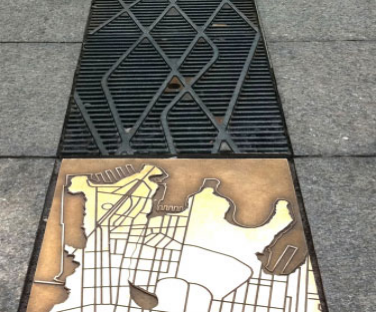
Revision: A ISSUED FOR INFORMATION

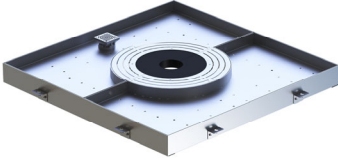
CODE		DESCRIPTION	SPECIFICATION	IMAGE
PAVEMENTS & SURFACES				
PV01A		LARGE FORMAT UNIT PAVING ON STRUCTURE	* Materials: Granite Unit Paving on structure * Work size: 600 x 300 x 60 mm thick (Nom. thickness TBC by Structural Engineer) * Colour: Single Paving colour; eg 'Ash Grey' * Example finish: Sandblasted or exfoliated * Pattern: 1/3 Stretcherbond * Loading: Vehicle / Pedestrian grade TBC * Stone sealer: Dulux Surfaceshield HD-H. Test sample to be applied for review prior to application. * Slip Resistance Classification: Slip Resistance: P4 or R11 * All stair nosings shall be: Slip Resistance: P4 * Paving Joints: 5 mm grouted, Colour to match adjacent paving * Bedding: Mortar bed / adhesive on paving slab over basement structure TBC. Refer Structural Engineering Documentation	Example finish: 
PV01B		LARGE FORMAT UNIT PAVING ON GRADE	* Materials: Granite Paving on grade * Work size: 600 x 300 x 60 mm thick (Nom. thickness TBC by Civil Engineer) * Colour: Single Paving colour; eg 'Ash Grey' * Example finish: Sandblasted or exfoliated * Pattern: 1/3 Stretcherbond * Loading: Vehicle / Pedestrian grade TBC * Stone sealer: Dulux Surfaceshield HD-H. Test sample to be applied for review prior to application. * Slip Resistance Classification: Slip Resistance: P4 or R11 * All stair nosings shall be: Slip Resistance: P4 * Paving Joints: 5 mm grouted, Colour to match adjacent paving * Bedding type: Mortar bed over paving slab TBC. Refer Civil Engineering Documentation	Example finish: 
PV02		FEATURE EDGE UNIT PAVING ON STRUCTURE	* Materials: Granite sett feature edge paving * Work size: 600 x 300 x 60 mm thick (Nom. thickness TBC by Structural Engineer) * Colour: Single Paving colour differing to PV01; eg 'Annalyce Gold' * Example finish: Sandblasted or exfoliated * Loading: Vehicle / Pedestrian grade TBC * Stone sealer: Dulux Surfaceshield HD-H. Test sample to be applied for review prior to application. * Slip Resistance Classification: Slip Resistance: P4 or R11 * All stair nosings shall be: Slip Resistance: P4 * Paving Joints: 5 mm grouted, Colour to match adjacent paving * Bedding: Mortar bed / adhesive on paving slab over basement structure TBC. Refer Structural Engineering Documentation	Example finish: 
PV03		SMALL FORMAT PAVING ON GRADE	* Materials: Varying Stone Granite Unit Paving on grade * Work sizes: Varying (refer below) x 60 mm thick (Nom. thickness TBC by Civil Engineer) - Example sizes and stone colours below: - A: 150 x 450 'Annalyce Gold' - B: 150 x 450 'Sesame Green' - C: 150 x 450 'Honey Jasper' - D: 225 x 450 'Sesame Green' - E: 450 x 450 'Annalyce Gold' - F: 600 x 450 'Sesame Green' - G: 600 x 450 'Honey Jasper' * Colour: 'Sesame Green', 'Annalyce Gold', & 'Honey Jasper' * Example finish: Sandblasted or exfoliated * Loading: Vehicle / Pedestrian grade TBC * Stone sealer: Dulux Surfaceshield HD-H. Test sample to be applied for review prior to application. * Slip Resistance Classification: Slip Resistance: P4 or R11 * All stair nosings shall be: Slip Resistance: P4 * Paving Joints: 5 mm grouted, Colour to match adjacent paving * Bedding type: Mortar bed over paving slab TBC. Refer Civil Engineering Documentation	Example finishes: 

CODE		DESCRIPTION	SPECIFICATION	IMAGE
PV04		MEDIUM FEATURE STONE UNIT PAVING ON GRADE	* Materials: Varying Stone Granite Unit Paving on grade * Work sizes: Varying (refer below) x 60 mm thick (Nom. thickness TBC by Civil Engineer) - A: 600 x 450 'Annalyce Gold' - B: 600 x 450 'Sesame Green' - C: 600 x 450 'Honey Jasper' * Colour: Warm palette; eg 'Sesame Green', 'Annalyce Gold', & 'Honey Jasper' * Example finish: Sandblasted or exfoliated * Loading: Vehicle / Pedestrian grade TBC * Stone sealer: Dulux Surfaceshield HD-H. Test sample to be applied for review prior to application. * Allowance for permeable feature (ie brickslot drainage to allow for drainage). * Slip Resistance Classification: Slip Resistance: P4 or R11 * All stair nosings shall be: Slip Resistance: P4 * Paving Joints: 5 mm grouted, Colour to match adjacent paving * Bedding type: Mortar bed over paving slab TBC. Refer Civil Engineering Documentation	Example finishes:  
PV05		CoCB STANDARD PAVING ON GRADE	* REFER TO CITY OF CANTERBURY BANKSTOWN COUNCIL STANDARD DRAWINGS S-021 * Note: No exterior band in tight pathway widths (less than 2000 mm clearance)	Example finish: 
PV06		BICYCLE PATH GRAPHIC	* Description: Painted Bicycle path graphic * Allow: Linemarking / Painted symbols to CanterburyBankstown Council Standards / Austroads Standards	Example: 
LANDSCAPE WALLS. EDGES & KERBS				
KB01		FEATURE DELINEATION KERB / SPOON DRAIN	* Description: Granite Unit Paving on grade in spoon drain profile * Work size: 600 x 300 x 60 mm thick (Nom. thickness TBC by Civil Engineer) * Colour: Single Paving colour to contrast with PV01; eg 'Annalyce Gold' * Profile: Spoon drain * Loading classification: Vehicle grade. Refer Civil Engineering Documentation * Stone sealer: Dulux Surfaceshield HD-H. Test sample to be applied for review prior to application. * Surface Example finish: Refer Type/Material above. * Slip resistance classification: P4 to walkways and shallower, P5 to all ramps * Bedding type: Mortar bed over paving slab TBC. Refer Civil Engineering Documentation * Testing: Slip Resistance of unit with top surface finish	Example: 
LE01		ALUMINIUM EDGE	* Description: Straight Aluminium edges * Dimension: 4mm thick x 150 mm deep * Material: Aluminium * Product: Cirtex 'Aluexcel' AE150 or similar * Product Code: AE150 (Rigid Product) * Fixings: Fixed to concrete paving slab. To manufacturer's requirements * Example finish: Mill	Example product: 
STAIRS & RAMPS				
ST01		STAIRS	* Description: Reinforced in situ concrete stairs with unit pavers * Type/Material: To match adjacent paving * Unit paver work size (mm): TBC. 60 depth * Loading classification: Pedestrian grade * Type/Material: To match adjacent paving * Laying Patten: To match adjacent paving * Colour: To match adjacent paving * Grout colour: To match adjacent paving * Stone sealer: To match adjacent paving * Surface Example finish: To match adjacent paving * Nosing: 60 mm wide x 10 mm thick contrasting colour stone inlay. Allow for sufficient contrast to Luminance Test Classifications as per AS 1428.1 * Slip resistance classification: P5 * Bedding type: Mortar bed. Refer Structural Engineering Documentation * Sample: Provide 2 tread prototype laid in situ with grouted joints for review	No Image

CODE		DESCRIPTION	SPECIFICATION	IMAGE
LANDSCAPE STRUCTURES				
LS01		BESPOKE SHADE STRUCTURE	* Description: Bespoke shading structure. * Type/Material: Australian kiln-dried hardwood timber shading structure. * Allowance: fully weather proof with roof structure (ie twin wall polycarbonate) * Allowance: spouting/gutters/internal downpipes connected to legal point of discharge. * Dimensions: Refer drawings * Footings: Refer Structural Documentation * Structure: Powdercoated steel SHS. To be confirmed with Structural Engineer * Fixing: Tamper proof stainless steel countersunk square drive screws * Timber size (width x thickness, mm): 180 x 180 * Timber Species : Spotted Gum (or approved alternative) * Timber grade: Class 1 * Timber surface finish and profile: Pencil round. Sawn and dressed to remove splinters. * Timber source: FSC Approved and Certified Source * Timber end joints: Mitre where abutting adjacent battens * Timber preservative treatment: Water based oil for exterior timber impregnated Cutex, apply as per suppliers recommendations * Sample: "Shop Drawings to be prepared and approved by Landscape Architect prior to fabrication. 1no. prototype unit" * Allowance: Allowance for lighting within shelters * Sample: * 1no unit for spacers, 1m length for cable and mesh.	Example Shade Structure: 
LS02		CATENARY LIGHTING STRUCTURE	* Description: Bespoke catenary lighting structure * Product: XSM LED Catenary Luminaires * Allowance: Allowance for bespoke design XSM LED Catenary fixtures * Allowance: Allowance for design and constructed misting feature	Example lighting feature: 
LS03		PERFORATED FEATURE SCREEN	* Description: Laser cut perforated feature screen to inlet structure * Allowance: Allowance for bespoke laser cut screen design, percentage of opening to be developed with Civil Engineer. * Material: To be developed * Dimensions: Refer drawings * Footings: Refer Structural Documentation	Example screen: 

CODE		DESCRIPTION	SPECIFICATION	IMAGE
LANDSCAPE FIXTURES				
BE01		BENCH - TIMBER WITH CONCRETE BASE	* Description: Feature bespoke timber benches on precast concrete base * Overall Dimensions 470 typical height, lenght varies * Base Type/Material: Precast coloured concrete * Base Reinforcement : Refer Structural Engineering Documentation * Base Concrete strength: Refer Structural Engineering Documentation * Base Concrete colour: Allowance for 'abilox' colourant at a dose of 8.3% * Base Aggregates (mm): 7 – 10, Mix of varying local crushed nature stone or similar approved alternative * Base Primary Example finish: Steel float * Base Supplementary Example finish: Heavily exposed aggregates * Base Profile: 20mm rounded edge to all exposed edges * Frame Type/Material: Stainless steel, grade 304. Linish finish * Batten size (width x thickness, mm): 150 x 30 * Batten Species : Spotted Gum (or approved alternative) * Batten grade: Class 1 * Batten surface finish and profile: Pencil round. Sawn and dressed to remove splinters. * Batten source: FSC Approved and Certified Source * Batten preservative treatment: Water based oil for exterior timber impregnated Cutek, apply as per suppliers recommendations * Batten spacing (mm): 6 * Footing: Refer Stuctural Engineering Documentation * GPO: Allowance for 2no 2-phase power outlets per linear meter	Example: 
SE01		SEAT WITH ARMREST - TIMBER WITH CONCRETE BASE	* Description: Feature bespoke timber seat with backrest on precast concrete base * Overall Dimensions 470 typical height, lenght varies * Frame Material: 304 Stainless steel * Frame Example finish: Linished no. 4 * Frame Fixings: Countersunk * Frame Type/Material: Stainless steel, grade 304. Linish finish * Batten size (width x thickness, mm): 150 x 30 * Batten Species : Spotted Gum (or approved alternative) * Batten grade: Class 1 * Batten surface finish and profile: Pencil round. Sawn and dressed to remove splinters. * Batten source: FSC Approved and Certified Source * Batten preservative treatment: Water based oil for exterior timber impregnated Cutek, apply as per suppliers recommendations * Batten spacing (mm): 6 * Allowance: Allow 1no. Armrests per 1m/lin * Footing: Refer Stuctural Engineering Documentation * GPO: Allowance for 2no 2-phase power outlets per linear meter	Example (NOTE SE01 WITH BACK AND ARMRESTS): 
SE01		PLATFORM - TIMBER WITH CONCRETE BASE	* Description: Feature bespoke timber platform on steel frame base * Overall Dimensions 470 typical height, lenght varies * Frame Material: 304 Stainless steel * Frame Example finish: Linished no. 4 * Frame Fixings: Countersunk * Batten size (width x thickness, mm): 150 x 30 * Batten Species : Spotted Gum (or approved alternative) * Batten grade: Class 1 * Batten surface finish and profile: Pencil round. Sawn and dressed to remove splinters. * Batten source: FSC Approved and Certified Source * Batten preservative treatment: Water based oil for exterior timber impregnated Cutek, apply as per suppliers recommendations * Batten spacing (mm): 6 * Footing: Refer Stuctural Engineering Documentation	Example: 
TA01		DOUBLE WIDTH TABLE WITH BENCHES	* Description: Feature bespoke double width steel table with benches * Material: Powdercoated mild steel * Colour: Allowance for custom powdercoat Colours scheme. * Fixings: Countersunk. * GPO: Allowance for 2no 2-phase power outlets per linear meter * Base plate: Refer to Structural Engineers Documentation. * Base plate dimension: Refer to Structural Engineers Documentation. * Submissions: Shop drawings to be issued for approval	Example: 
TA02		LOOSE CAFÉ TABLES AND CHAIRS	* Description: Loose Steel Cafe setting * Allow: 4 no. chairs per table * Material: Powdercoated mild steel * Fixings: Countersunk. * Note: Some numbers by vendors, some quantity by council for events. Numbers TBC	Example Product: 
BR01		BIKE HOOP	*Description Bicycle semi hoop * Nominated Product: Street Furniture Australia 'BST03' * Material: 304 Stainless steel * Example finish: Linished no. 4 * Fixings Subsurface mounting 3 x 12mm Dia. Dynabolts	Example Product: 
BN01		SMART OUTDOOR LITTER BIN	* Description: Self compacting solar panel smart bins * Note: Solar powered bin to Canterbury Bankstown specification. * Allowance: Custom graphic panels	Example Product: 

CODE		DESCRIPTION	SPECIFICATION	IMAGE
LP01		SMART POLE	* Description: Smart pole with LED fitting with integrated GPO and misc outlets. * Product: HESS Smart pole or approved equivalent * Allowance: Custom powdercoated colour * Allowance: Recessed fixing below adjacent surface or cover to bolts.	Example Product: 
LP02		LIGHT POLE	* Description: Light pole with LED fitting. * Product: HESS light pole or approved equivalent * Allowance: Shape to be similar to HESS smart pole * Allowance: Custom powdercoated colour * Allowance: Recessed fixing below adjacent surface or cover to bolts.	Example Product: 
BD01		BOLLARD FIXED	* Description: Fixed Bollard * Dimensions: Refer to Furniture Schedule * Material: Stainless steel * Base plate: Refer to Structural Engineers Documentation. * Base plate dimension: Refer to Structural Engineers Documentation. * Allowance for lighting * Submissions: Shop drawings to be issued for approval	Example Product: 
BD01		BOLLARD REMOVABLE	* Description: Removable Bollard * Material: Stainless steel * Estimated impact protection: SSP 150RB not impact tested; SSP 150RC not impact tested. TBC * Type 1: Removable Key lock, auto closing cover. * Allowance for lighting * Submissions: Shop drawings to be issued for approval	Example Product: 
TC01		TACTILE GROUND SURFACE INDICATORS	* Type: Stainless Steel Individual Buttons with polymer insert. * Dimensions: 35 mm dia. x 4.5 mm high approx.; conforming with AS 1428 * Material: Discrete Composite TGSI - 316 marine grade solid stainless steel surround with heavy duty coloured polymer centre. Colour TBC * Slip Resistance & Luminance Test Classifications: Wet Pendulum Test Mean BPN: 51W(MEDIUM*); Oil-Wet Ramp Test 29.7 Degrees R12(M); Luminance Value Mean Wet Value 3.20; Mean Dry Value 4.01; CSIRO Test Results available on request. * Luminance Contrast Requirement: Discrete Stainless Steel Tactiles require a 60% luminance contrast with that of its surrounding substrates to achieve compliance with AS 14528.4.1 Design for access and mobility. DDA consultant to review and approve supplier sample. * Compliance: AS/NZ 4586:1999 Slip Resistance Classification; AS/NZ 1428.4.1:2009 Section 2:2.3.2 Design requirements * Installation: To be in accordance with Australian Standards, DDA requirements and in accordance with the manufacturer's requirements. * Note: - Preferences are indicative only and subject to approval by DDA consultant and Campus Design Quality and Planning. - All TGSIs to use stainless steel fixing plugs. - Contractor to confirm substrate and underside conditions allow for installation. - Confirm slip resistance rating and luminous values comply with current standards.	Example Product: 
SD01		FEATURE SLOT / STRIP DRAIN	* Description: Stainless steel heelguard trench grate * Type/Material: Feature bronze trench grate cover * Allow: 300 mm width Bespoke pattern	Example Product: 

CODE		DESCRIPTION	SPECIFICATION	IMAGE
TG01		FEATURE TREE GRATE	* Description: Custom sized Galvanised steel framed tree grate with paving infill * Dimensions: Custom * Loading Characteristic: Class C equivalent * Opening: 1000 mm DIA. * Frame: Galvanised steel * Nominated Product: Citygreen 'Invisi Grate' * Inner Decorative Plate: Citygreen Inner decorative plate. * Inner Decorative Plate material: Galvanised * Inner Decorative Plate slip resistance: P4 or R11 * Tree Guard: Nominated Product: Citygreen 'GLBEL18560-1' 'Bellview'. Approx. Dimensions: 1850 (h) x 600 (base dia.) x 800 (top dia.) mm. * Note: To be reviewed and structurally certified "fit-for-purpose" prior to fabrication. * Note: Shop Drawings to be prepared and approved by Landscape Architect prior to fabrication. * Sample: Photograph of proposed unit prior to Purchase.	Example Product & Intent:  
SOFTSCAPE				
GB01A		STANDARD GARDEN BED ON GROUND	* Description: Planting on Ground * Plant Species Selection: Refer to Design Report * Build up required: Refer to Details * Minimum Topsoil Depth: 600 mm * Tree Anchor: NA * Planting allowance: 9 plants/m2 * Sub-surface Drainage Design: Refer to Civil Engineers Drawings and Specification * Allowance for all garden beds to be irrigated	No Image
GB01B		DEEP GARDEN BED ON GROUND	* Description: Planting on Ground * Plant Species Selection: Refer to Design Report * Build up required: Refer to Details * Minimum Topsoil Depth: 1000 mm * Tree Anchor: NA * Planting allowance: 9 plants/m2 * Sub-surface Drainage Design: Refer to Civil Engineers Drawings and Specification * Allowance for all garden beds to be irrigated	No Image
TR01		LARGE TREE ON GROUND	* Description: Large Tree on ground * Allow: 300 L / 3.5 m high install size, noted feature trees in Central Zone to be ex. in-ground stock or 1000 L * Tree species Selection: Refer to Design Report * Build up required under structure: 2 no layers of LB01 * Topsoil Depth in deep soil: min. 1000 mm depth * Soil Profile: LS-02, refer below and technical specification * Landscape build up: LB-01, refer Below * Tree Anchor: TA-01, refer Below * Sub-surface Drainage Design: Refer to Hydraulics Engineer Engineers Drawings and Specification * Irrigation: Refer Irrigation Consultants Documentation	No Image
TR02		MEDIUM TREE ON STRUCTURE	* Description: Medium Tree on structure * Allow: 200 L / 3 m high install size * Tree species Selection: Refer to Design Report * Build up required under structure: 2 no layers of LB01 * Topsoil Depth in deep soil: min. 1000 mm depth * Soil Profile: LS-02, refer below and technical specification * Landscape build up: LB-01, refer Below * Tree Anchor: TA-01, refer Below * Sub-surface Drainage Design: Refer to Hydraulics Engineer Engineers Drawings and Specification * Irrigation: Refer Irrigation Consultants Documentation	No Image

CODE		DESCRIPTION	SPECIFICATION	IMAGE
LANDSCAPE BUILD UP				
LB01		LANDSCAPE BUILD UP (UNDER PAVEMENT)	* Type: LANDSCAPE BUILD UP TYPE 1 * Description: Load bearing structure with soil holding capacity * Materials: - Stratavault 600 mm x 600 mm 100% recycled polymers - Filter fabric - Hydrophilic non-woven geotextile as per supplier recommendations - Drainage cell 20 mm Flo-Cell® drainage cell or approved equivalent - Waterproofing layer. Refer to architects. * Example finish: Surface over varies refer to pavements and surfaces plans and details * Hold Points: Adhere to HOLD POINTS as specified. * Submissions: - 1 Unit sample - Set out min. 2m2 area.	Stratavault products: 
SOIL PROFILES				
LB02		SOIL FOR IRRIGATED GARDEN BEDS AND TREE PLANTING	* Topsoil Type: Engineered growing media. Refer Technical Specification. * Topsoil depth: Varies, refer drawings. * Structural soil support: Stratavaults * Sub-soil: Structural foam void former, depth as required to achieve finished levels. Refer Civil Engineer's drawings. * Geofabric: Bidim A14. Refer Landscape Technical Specification. * Structural slab and waterproofing: Refer to Structural Drawings * Testing: Provide compliance certificates as specified. * Hold Points: Adhere to HOLD POINTS as specified. * Submissions: - Sample: 1 Litre bag - Testing: Provide compliance certificates as specified.	Soil profile with engineered structural supports: 
TA01		TREE ANCHORING	* Type: Fytogreen Root Ball Kit - 3 Leg Deadman System * Product Code: Trees 2.5 - 4.5m - FRF1DMM; Tree 4.5 - 7.5m - FRF2DMM * Rootball Securing: Fyto-Mat	Example Product: 

CODE		DESCRIPTION	SPECIFICATION	IMAGE
COORDINATION ITEMS				
-		INFILL PIT LIDS	* Allowance: Pit lids to be infill type filled with same paving as adjacent. * Allowance: Pits to be orientated with paving pattern. * Laying Pattern: Design layout and paving types to be confirmed (contractor to assume pattern will match adjacent) * Nominated Product: Ductile iron Rhinocast® recessed cover with stainless steel decorative edge or approved equivalent. * Loading note: Refer to Civil documentation on grade / Structural documentation on structure. * Sample: 1no unit with pavers installed. * Submissions: - 1 Unit sample	No image
-		TRENCH GRATES	* Description: Stainless steel heelguard trench grates * Nominated Product: ACO or similar approved * Loading note: Refer to Civil documentation on grade / Structural documentation on structure. * Slip resistance: P4 rating * Surface grate: 6mm Heelguard * Width: refer to Civil / Hydraulic Documentation. * Sample: 1m length with end cap	No image
-		BRICK SLOT GRATES	* Description: Brickslot grates * Nominated Product: ACO or similar approved * Loading note: Refer to Civil documentation on grade / Structural documentation on structure. * Slip resistance: P4 rating * Opening: Max 6mm * Width: refer to Civil / Hydraulic Documentation. * Sample: 1m length with end cap	No image
-		POINT DRAINS	* Description: Stainless steel heelguard point drains * Nominated Product: ACO or similar approved * Loading note: Refer to Structural documentation on structure. * Slip resistance: P4 rating * Surface grate: 6mm Heelguard * Width: Refer to Hydraulic Documentation. * Sample: 1no. unit	No image
-		SERVICE CABINETS	* Description: Steel weatherproof custom cabinet * Allowance: 3 phase power for events, lockable hardware. * Example finish: Allow for powdercoated finish.	No image
OTHER ITEMS TO BE CONFIRMED:				
PUBLIC ART / HERITAGE / ACTIVATION OVERLAY				
IRRIGATION (DESIGN AND CONTRACT)				
[M18056-LS-1001 SELECTIONS REPORT END				