University of Adelaide North Terrace Campus Public Realm Concept Design

Prepared for The University of Adelaide Date: 21 March 2019 Doc no.: A18033-LA-SK004 **Rev.:** P8

> **infra**Plan ASPECT Studios[™] mantirridesign



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REVI	SION STATUS			
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INTRODUCTION AND CONTEXT

The University of Adelaide has commissioned this report to articulate the design vision and proposals associated with concept plans for the public realm associated with the University's North Terrace Campus.

The scope of the study area includes the main campus bound by North Terrace to the south, Frome Road to the east, Victoria Drive to the north and Kintore Avenue to the west. It also includes concepts for the university's Nexus 10 site located on the south eastern corner of North Terrace and Pulteney Street and the School of Medicine precinct to the east of Frome Road. While the core focus of the project looks at the public realm on the campus, the surrounding context, particularly connections to the River Torrens, Riverbank Precinct, Lot Fourteen, new Botanic High School and the city have been taken into consideration.

The campus has been the subject of numerous design strategies and master plans over the past 10 years and this report seeks to elevate the core principles for the public realm that have been reinforced through these plans and which support the University's vision to create a campus that better connects to the city and surrounds. With numerous changes underway in the east end of the city, particularly with the redevelopment of the Lot Fourteen, there will be an increasing importance on creating a vibrant campus that welcomes people in the city and which adds to the vitality and culture of the east end.

The concept plan presents strategies that focus primarily on lifting the pedestrian experience of the campus, maximising space for pedestrian and bike movement, with improved greening, wayfinding and the indentification of key sites within and adjacent to the campus that promote opportunities for increased activation of the campus' external spaces and which supports the reorientation of the campus to better connect with the city and surrounds.

The process for the development of the Concept Plan included:

- Initial visioning workshop with the campus project reference group
- Review and synthesis of existing reports, in particular the FJMT Master Plan, 2016
- Site walkovers and investigations
- Workshops with key campus groups, Adelaide City Council and Renewal SA to further develop preliminary ideas and opportunities
- Preparation of a draft summary report (this report)

Campus public realm vision:

The North Terrace Campus will be an extension of the City of Adelaide, a place where students, staff and the wider public are atrracted to, allowing for social connection, for events and smaller gatherings, as a place of respite and inspiration as well as active use both day and night

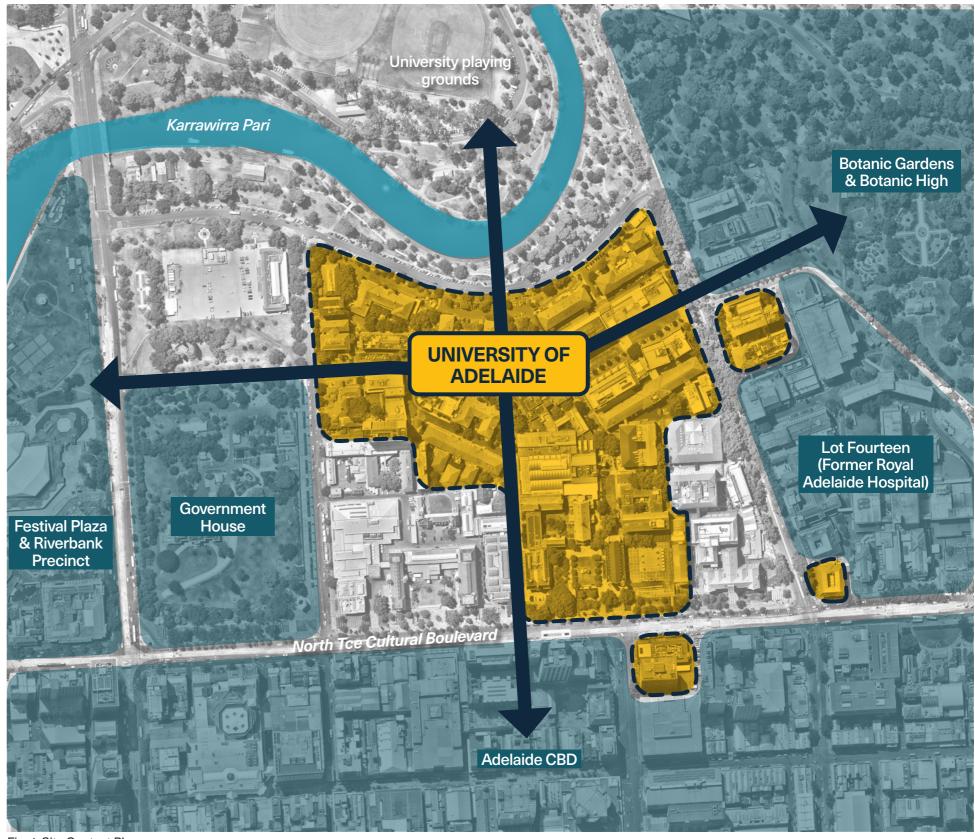


Fig. 1: Site Context Plan

DISCLAMER

 There are aspirational elements to this concept design that may not archivable or which require consultation and alignment with parties external to University of Adelaide





KEY OPPORTUNITIES

During the week beginning 18th of June the design team for the North Terrace Public Realm project attended a site walk over and a series of workshops with the client and key university departments. As an outcome of the initial workshops, we have identified the following as key design opportunities for the Campus:

01 Victoria Drive Activation

Potential for frontage activation with:

- Consolidated landscape
- Improved connections to / from riverbank
- Car parking removal
- Building entries relocation
- Multi purpose landscape spaces
- Potential development on Victoria Dr. corner
- Removal (part) of fences •
- Recreation and sports opportunities

02 Frome Road Activation

Potential for frontage activation with:

- Removal (part) of fences
- Potential development on Victoria Dr. corner
- Gardens and Lot Fourteen.

03 Western Gateway

Reinforce area adjacent to Hartley Building on Kintore Avenue as the western gateway into the Campus coming from Festival Centre precinct.

04 Hub Central Forecourt

Potential for a Hub Central forecourt where main Campus connections intersect. Improve accessibility and, at the same, reinforce escarpment as a landscape feature of the site.

05 Outdoor Campus Hub / University Square

Potential for new outdoor hub for the Campus with improved pedestrian circulation and minimised vehicle access. Opportunity to rationalise level change to create usable spaces.

06 **Colombo Plan Alumni Court Activation**

Potential for court activation with:

- Public Art
- Sports courts

07 Engineering Gardens

Opportunity for new landscape area between Engineering North and Engineering South Buildinas with:

- Car parking removal
- Improved connection from UniSA Campus edge and Maths Lawn
- Potential for an intimate and shaded garden
- Integration with potential redevelopment of • the Engineering Annexe site

08 Western Drive

Reinforce Western Drive as the main pedestrian link through the Campus with:

- Removal of car parking
- Rationalised service and emergency access
- Use of high quality landscape finishes
- Single surface paving treatment
- Potential water-sensitive urban design

09 Barr Smith Link

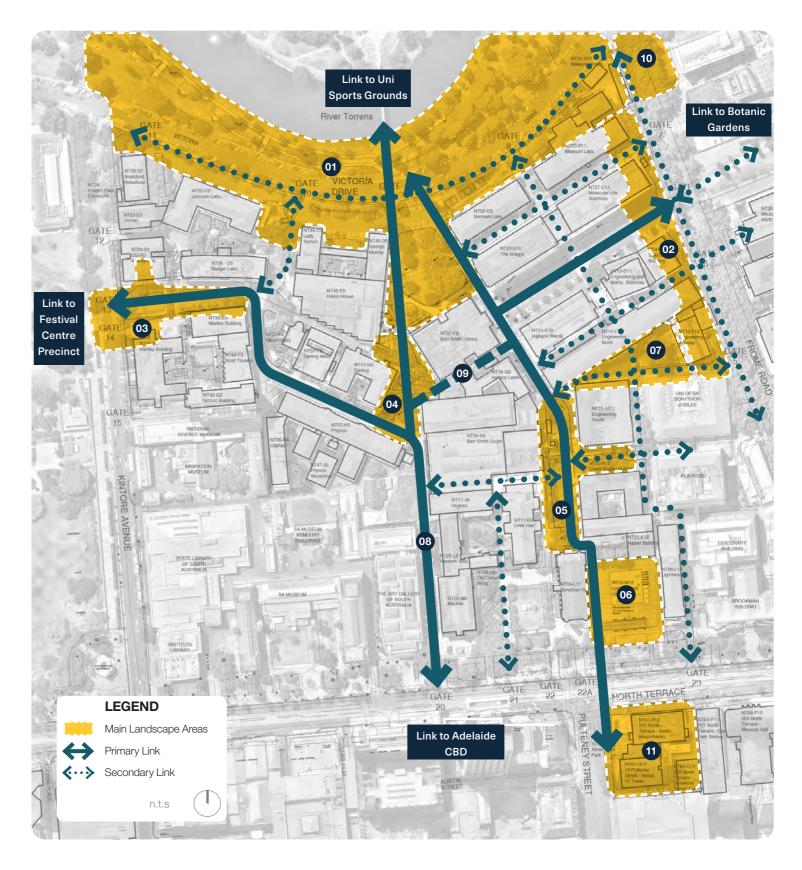
Reinforce East-West link through the Campus connecting new western gateway, through new proposed development south of Barr Smith Library and Frome St edge.

10 Botanic High Crossing

Potential to create scramble crossing to new Botanic High School and Botanic Gardens.

11 Nexus 10 Forecourt Activation

Reimagine court as city lounge or meeting place for University users with bar, cafe. Gateway to / from the CBD



- Improved connections with Botanic





DESIGN PRINCIPLES

The following overarching design principles have been refined from previous planning and design studies and adapted to reinforce the Campus vision for the public realm.



IDENTITY

City university on the river, in the Park Lands



CONNECTION

North-South, East-West connection, improved legibility, inter-connectivity, safety and activation



PUBLIC ROUTES

Define a style palette that unites the University's public routes



PUBLIC SPACES

Define a family of well connected, diverse and complementary public spaces in each precinct



UNIVERSITY SQUARE

Provide an integrated outdoor central university square to complement . Hub Central



PEOPLE FRIENDLY

Provide a comfortable and accessible campus for people of all ages and abilities



TOPOGRAPHY

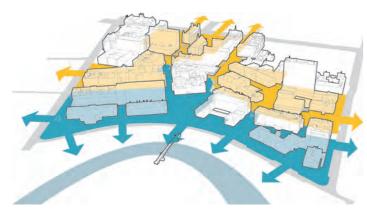
Celebrate the lie of the land, terraces, stairs, slopes, amphitheatres and belvederes

INTERFACES

Animate and activate public interfaces to enhance public routes and spaces

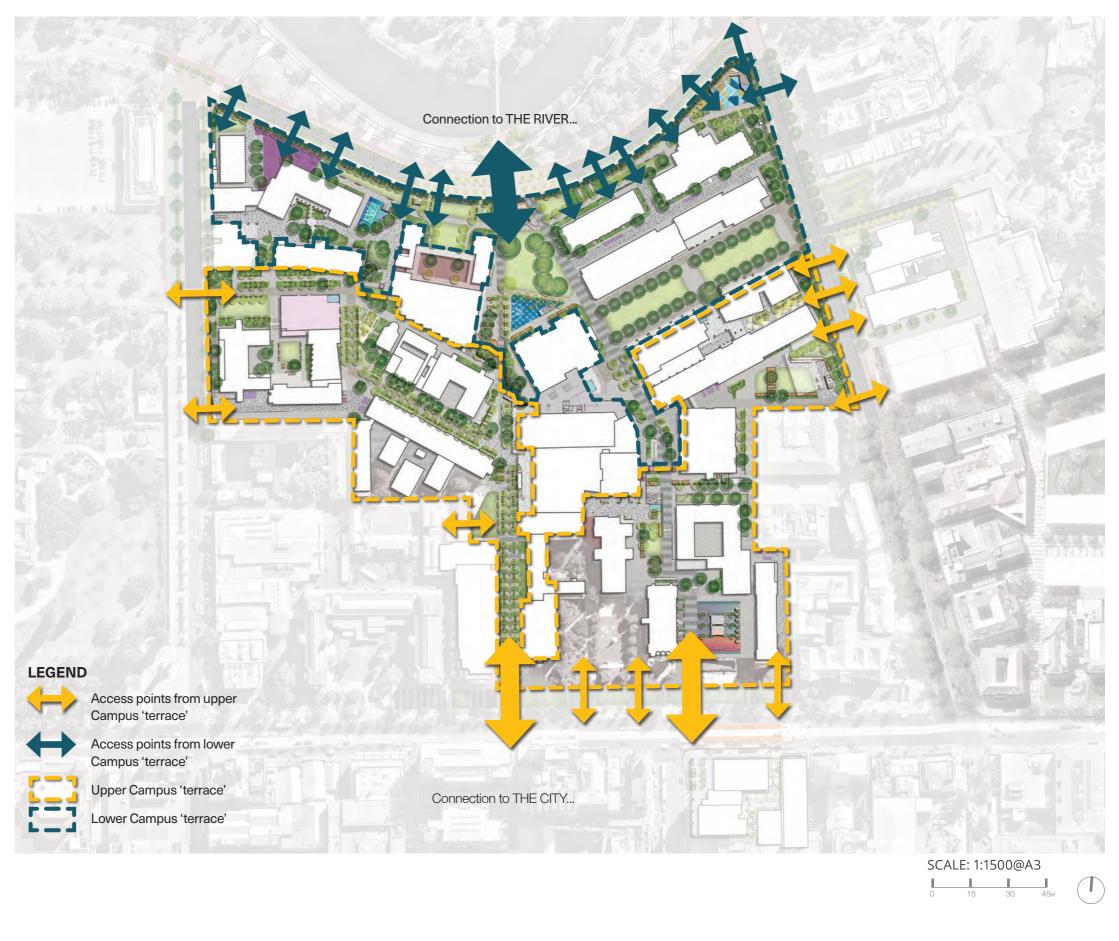






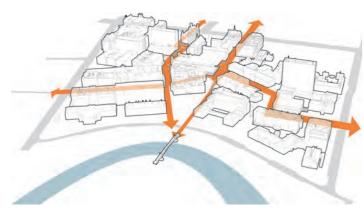
CONNECT

- Connect the Campus to the City and River
- Reinforce the 'upper' terrace link to the City and the 'lower' terrace link to the river
- Improve connects to the Festival Centre Precinct, Lot Fourteen, North Terrace cultural centre, Botanic High School, Botanic Gardens and surrounding public transport



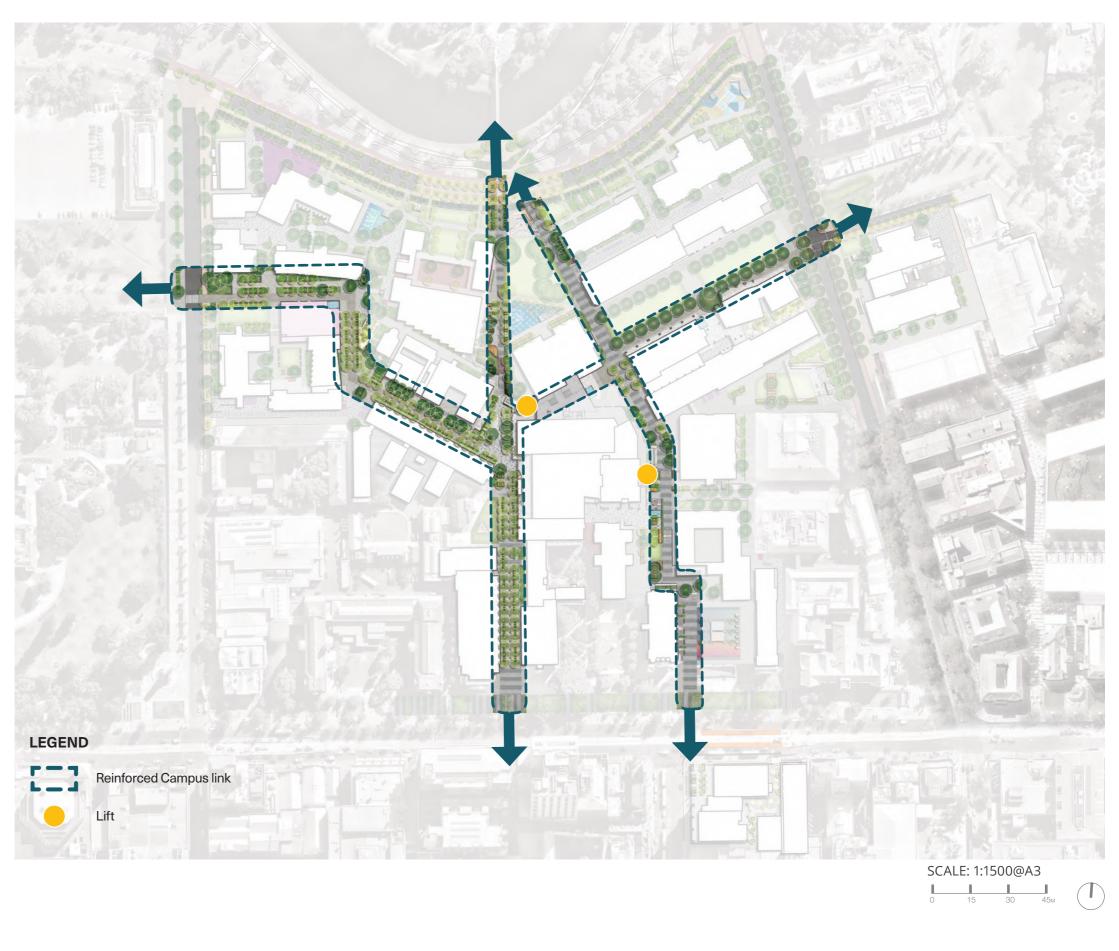






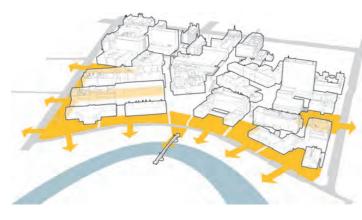
STRENGTHEN

- Reinforce the North-South City links through the Campus
- Strengthen the legibility of the important East-West links through the Campus
- Strengthen pedestrian links and invite public to walk through the Campus



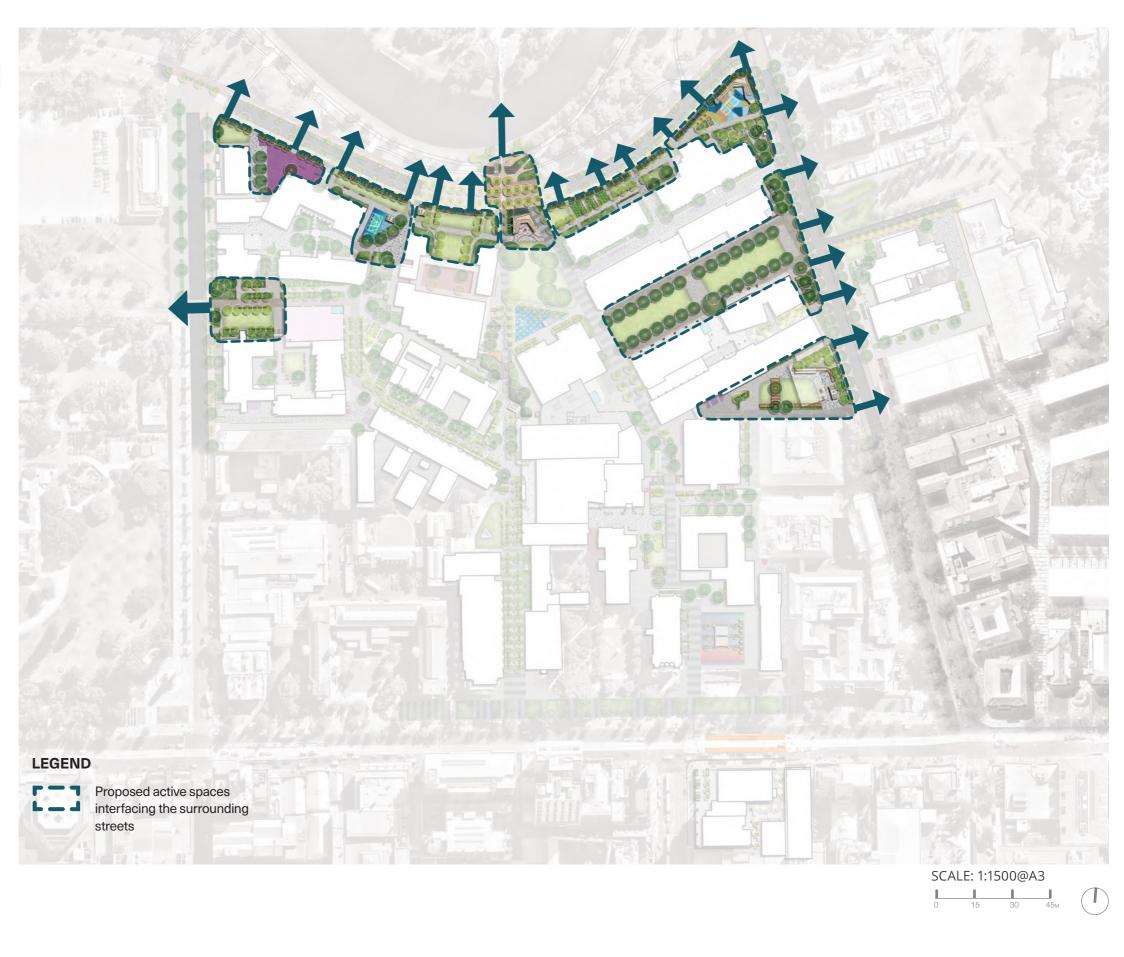






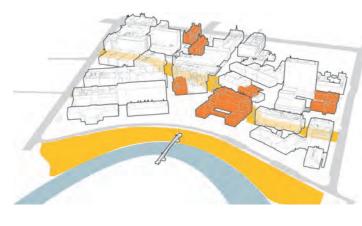
INTEGRATE

- Activate the edges of the Campus, particularly at the lower terrace level
- Develop stronger physical and visual connections to important adjacent sites including Botanic High School, Lot Fourteen, River Torrens and Festival Precinct
- Engage with neighbours and surrounds
- Invite activation into Campus grounds



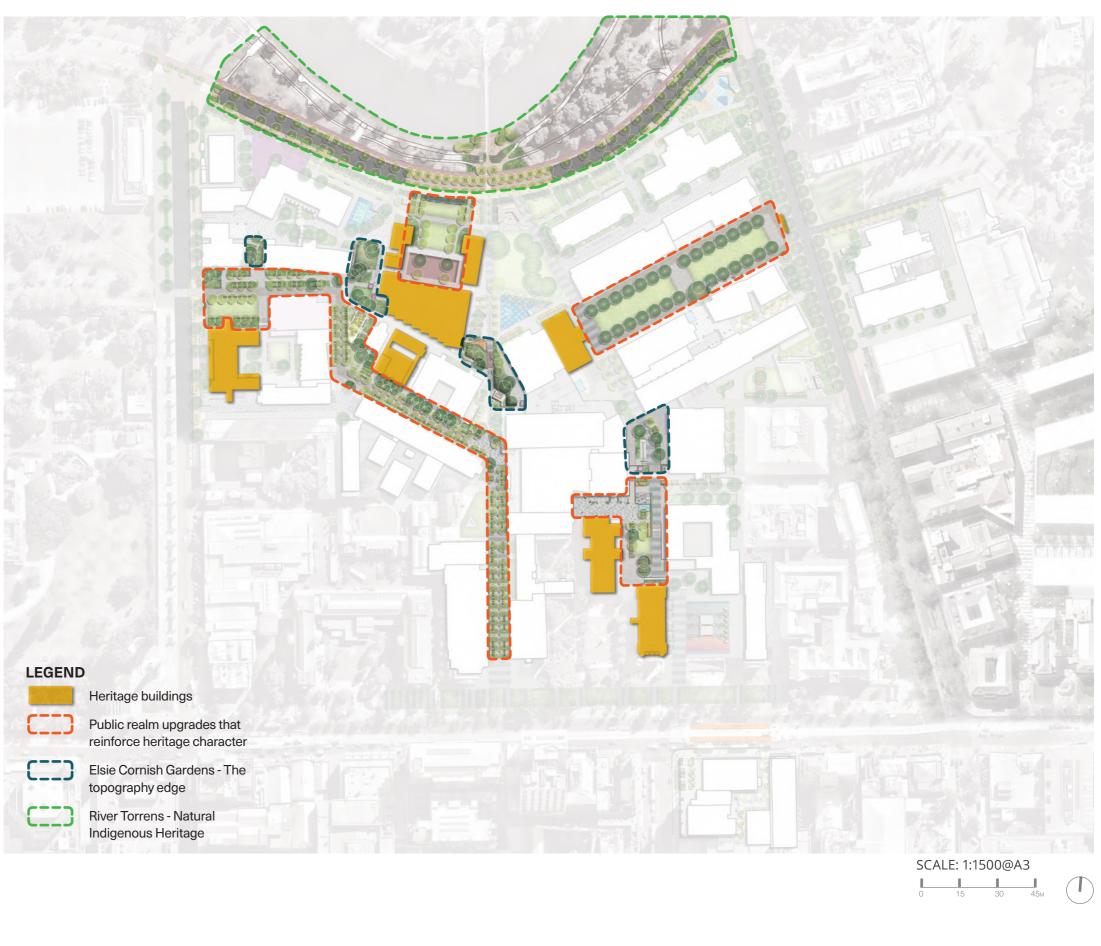






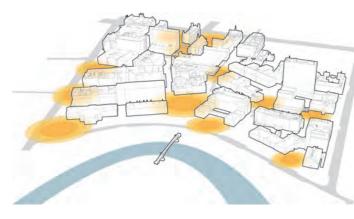
RESPECT

• Reinforce the distinct topography and cultural heritage of the Campus



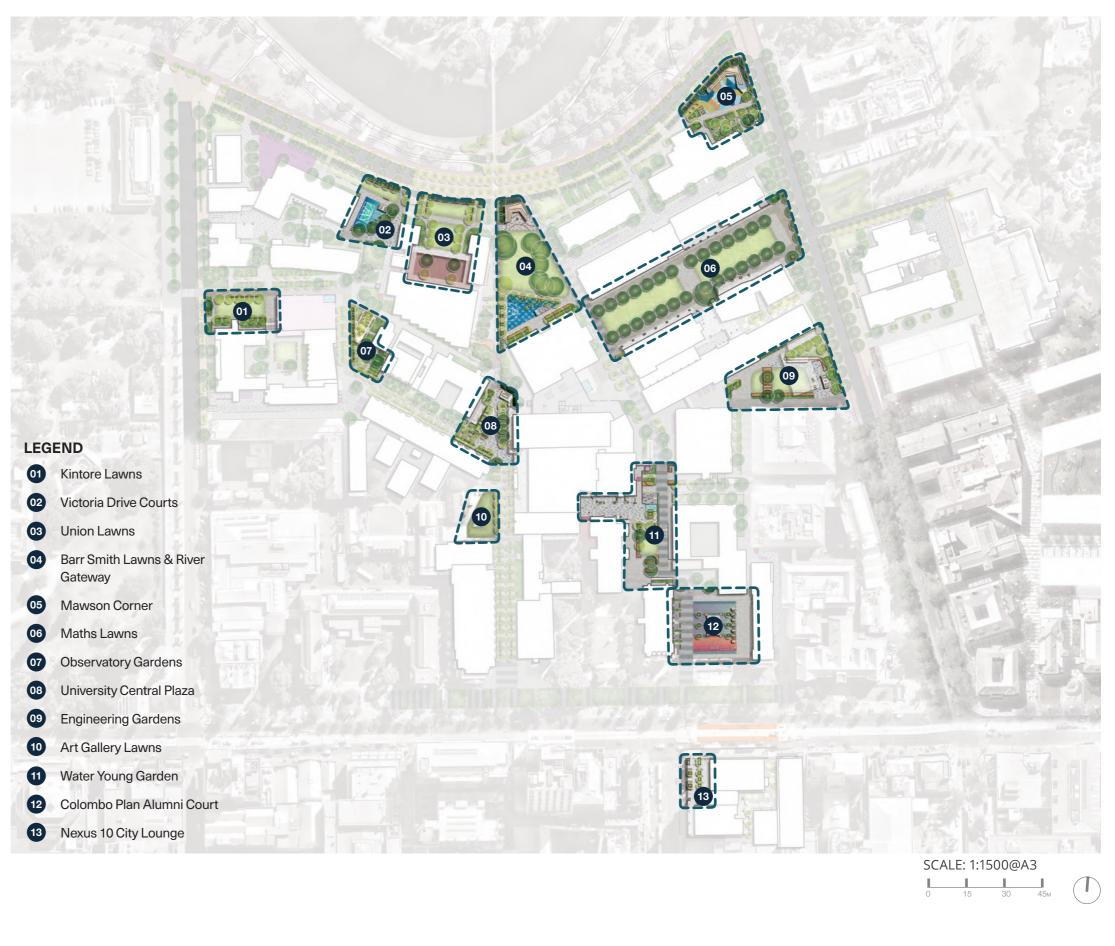






ACTIVATE

• Create distinct external hubs within the Campus that allow for day and night activation with spaces for BBQs, bookable events, sports, recreation and staff social spaces







OVERALL CONCEPT PLAN

This concept plan is a representation of the future vision for the North Terrace Campus public realm. With a focus on the wholescale pedestrianisation of the Campus, and improved connections to the City, it is to be read as a long term strategy that will require co-operation with numerous stakeholders both within and external to the University.

NOTES

* Further consultation with external stakeholders including City of Adelaide, Renewal SA, SA Health and Art Gallery is required to realise these concepts.

LEGEND

01	Barr Smith Lawns
02	Cloisters
03	Mawson Corner *
04	Maths Lawns
05	Pfitzner Court
06	Hub Central
07	Walter Young Garden
08	Colombo Plan Alumni Court
09	Kintore Lawns
10	Western Drive *
1	Engineering Gardens (long term site plan)
12	Victoria Drive Shared Zone *
13	University Central Plaza
14	Nexus 10 Outdoor Lounge

SCALE: 1:2000@A3



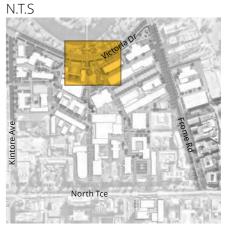


VICTORIA DRIVE EDGE CENTRAL





LOCATION PLAN



- 01 Riverbank terraced lawns *
- 02 BBQ / Shelter
- 03 Raingardens
- 04 Service Hub
- 05 Lawn area
- 06 Aboriginal learning circle
- 07 Podium seating / Stage / Canopy
- 08 Biology Research Gardens
- 09 Victoria Drive Shared Space *
- 10 Accessible car parking
- 11 Multimedia Screen / outdoor cinema

NOTES

* Further consultation with external stakeholders including City of Adelaide, Renewal SA, SA Health and Art Gallery is required to realise these concepts.





SCALE: 1:500@A3



VICTORIA DRIVE EDGE CENTRAL: ARTIST IMPRESSION









VICTORIA DRIVE EDGE CENTRAL: ARTIST IMPRESSION







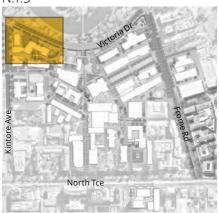


VICTORIA DRIVE EDGE WEST





LOCATION PLAN N.T.S



LEGEND

- Relocated childcare
 Childcare drop-off zone *
 Coach / Bus drop-offf zone *
 Lawn area
 Proposed building entry
 Emergency / Service lane
- 07 Multi-use hard court
- 08 Shelter / picnic table
- **09** Fitness equipment
- 10 Accessible car parking
- 11 Raingarden
- 12 Delivery zone
- 13 Potential raised crossing *

NOTES

- Soundproofing of building glazing required to accomodate adjacent hard courts.
- * Further consultation with external stakeholders including City of Adelaide, Renewal SA, SA Health and Art Gallery is required to realise these concepts.



SCALE: 1:500@A3

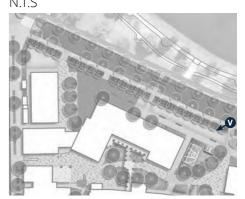
DATE 21.03.2019



VICTORIA DRIVE EDGE WEST: ARTIST IMPRESSION









VICTORIA DRIVE EDGE EAST / MAWSON CORNER



1	Lawn area
2	Raingardens
3	Fitness equipment
4	Picnic tables
5	Podium seating / Canop
6	Multi-use courts
7	Geology Gardens
8	Pontential raised scram crossing *
9	Accessible car parking
0	Retained ramp
1	Delivery zone



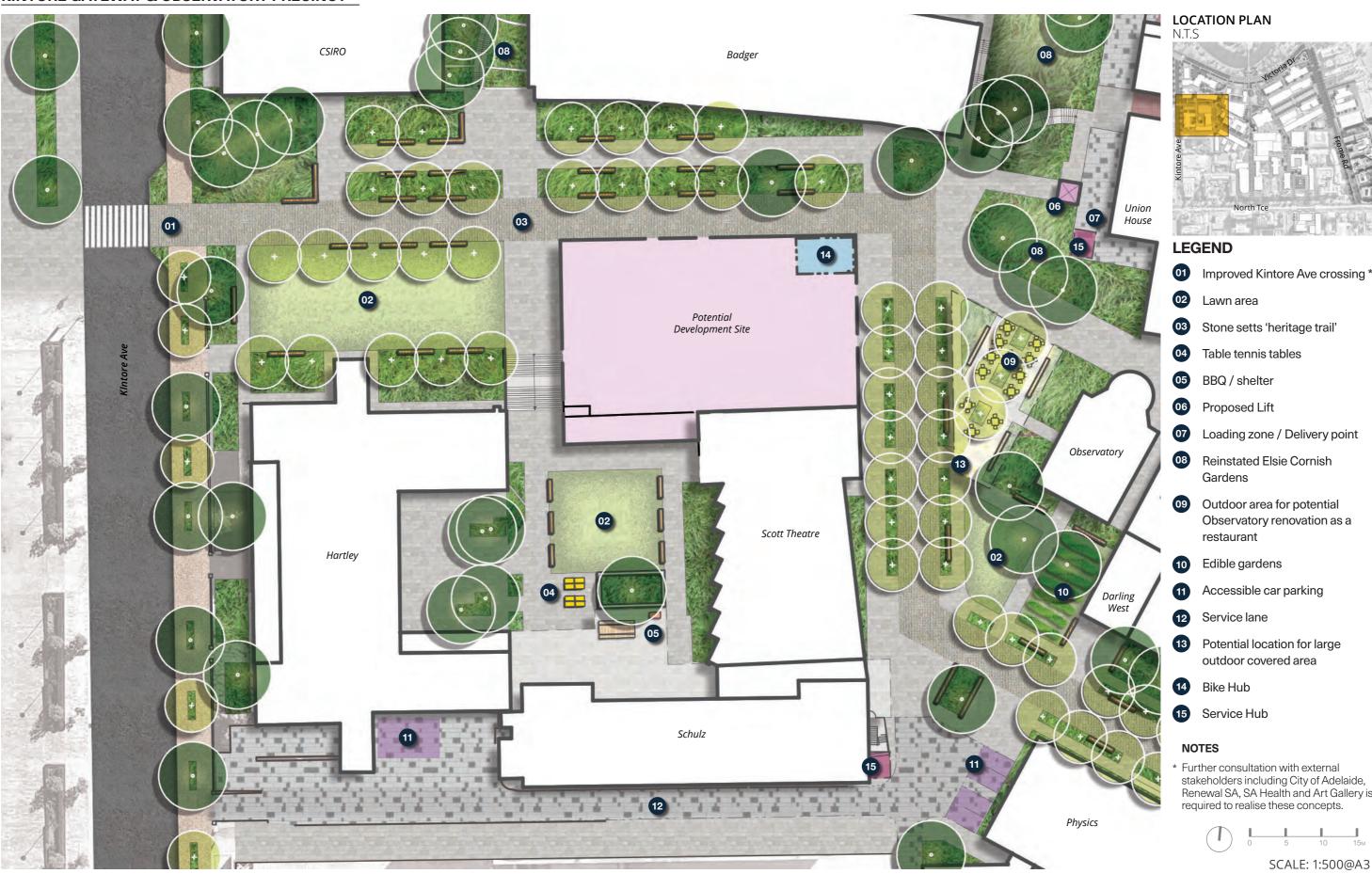
VICTORIA DRIVE EDGE EAST / MAWSON CORNER: ARTIST IMPRESSION







KINTORE GATEWAY & OBSERVATORY PRECINCT



01 Improved Kintore Ave crossing * 03 Stone setts 'heritage trail' 07 Loading zone / Delivery point 08 Reinstated Elsie Cornish Outdoor area for potential Observatory renovation as a 11 Accessible car parking 13 Potential location for large outdoor covered area Further consultation with external stakeholders including City of Adelaide, Renewal SA, SA Health and Art Gallery is required to realise these concepts.

UNIVERSITY OF ADELAIDE NORTH TERRACE CAMPUS PUBLIC REALM CONCEPT DESIGN

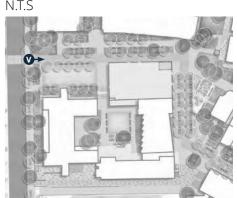
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KINTORE GATEWAY & OBSERVATORY PRECINCT: ARTIST IMPRESSION











BARR SMITH LAWNS



DATE 21.03.2019



LOCATION PLAN N.T.S



LEGEND



01	Cloisters
02	Multimedia screen / outdoor cinema
03	Barr Smith Lawns
04	High quality paving extending North Tce boulevard treatment
05	Informal multi-use court
06	Table tennis table / Badminton
07	BBQ / Shelter
08	Daybed
09	Seating steps
10	Communal table
1	Terraced gardens & seating deck
12	Existing heritage stairs
13	Reinstated Elsie Cornish gardens
14	Relocated Union House stairs
14	Bike Hub (Level 1)
15	Service Hub
NOTE	S
0	

Soundproofing of library glazing required to accomodate adjacent hard courts

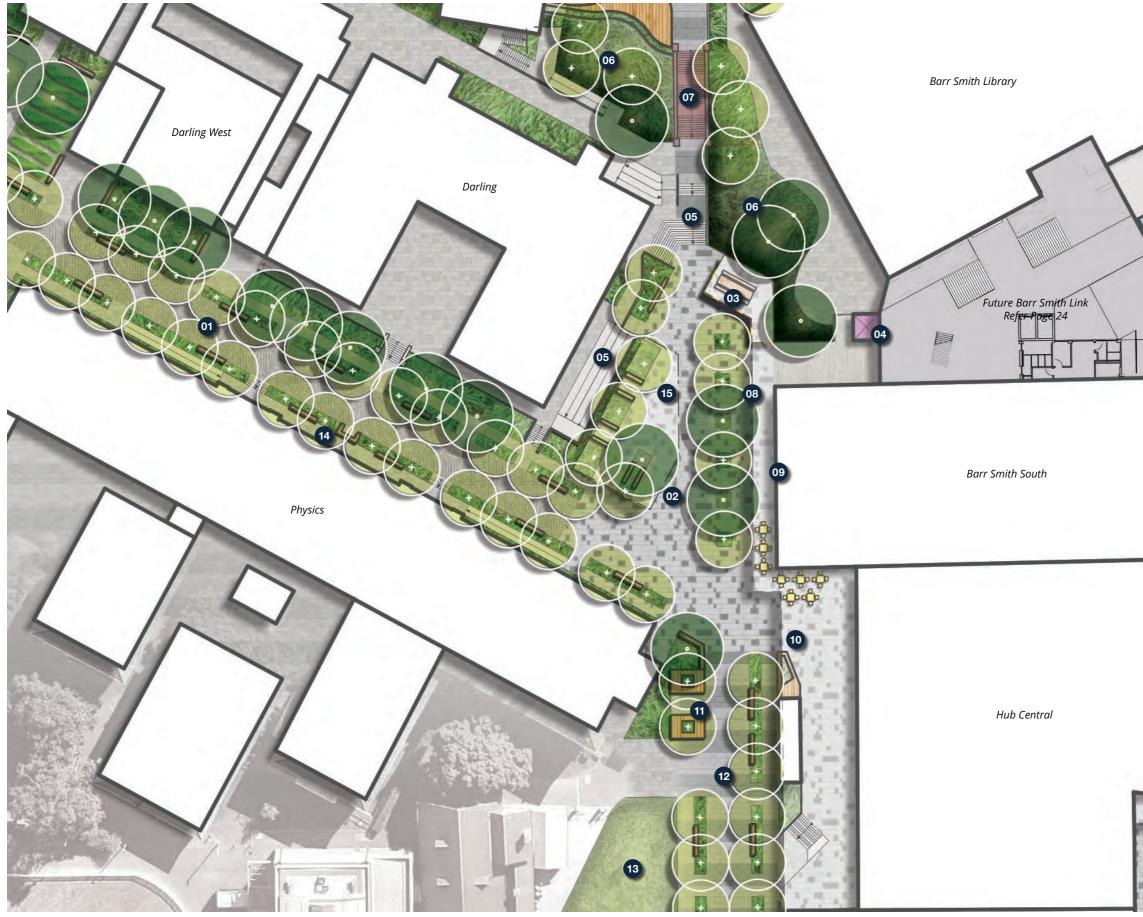


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UNIVERSITY CENTRAL PLAZA





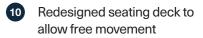


N.T.S



LEGEND Cobblestone setts 'heritage trail' University Central Plaza Communal table & shelter Proposed lift Rearranged stairs / ramp Reinstated Elsie Cornish Gardens Existing heritage stairs

- Extended plaza with shade awning
- 09 Proposed mural artwork



- 11 Seating deck
- 12 High quality paving extending North Tce boulevard treatment
- 13 Art Gallery Lawns
- 14 Raised terrace with seating & gardens
- 15 Potential location for large outdoor covered area
- 16 Bike Hub (Level 1)



SCALE: 1:500@A3

P 22

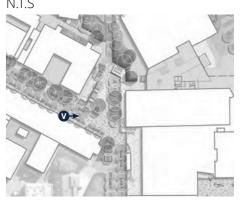
UNIVERSITY OF ADELAIDE NORTH TERRACE CAMPUS PUBLIC REALM CONCEPT DESIGN



UNIVERSITY CENTRAL PLAZA: ARTIST IMPRESSION



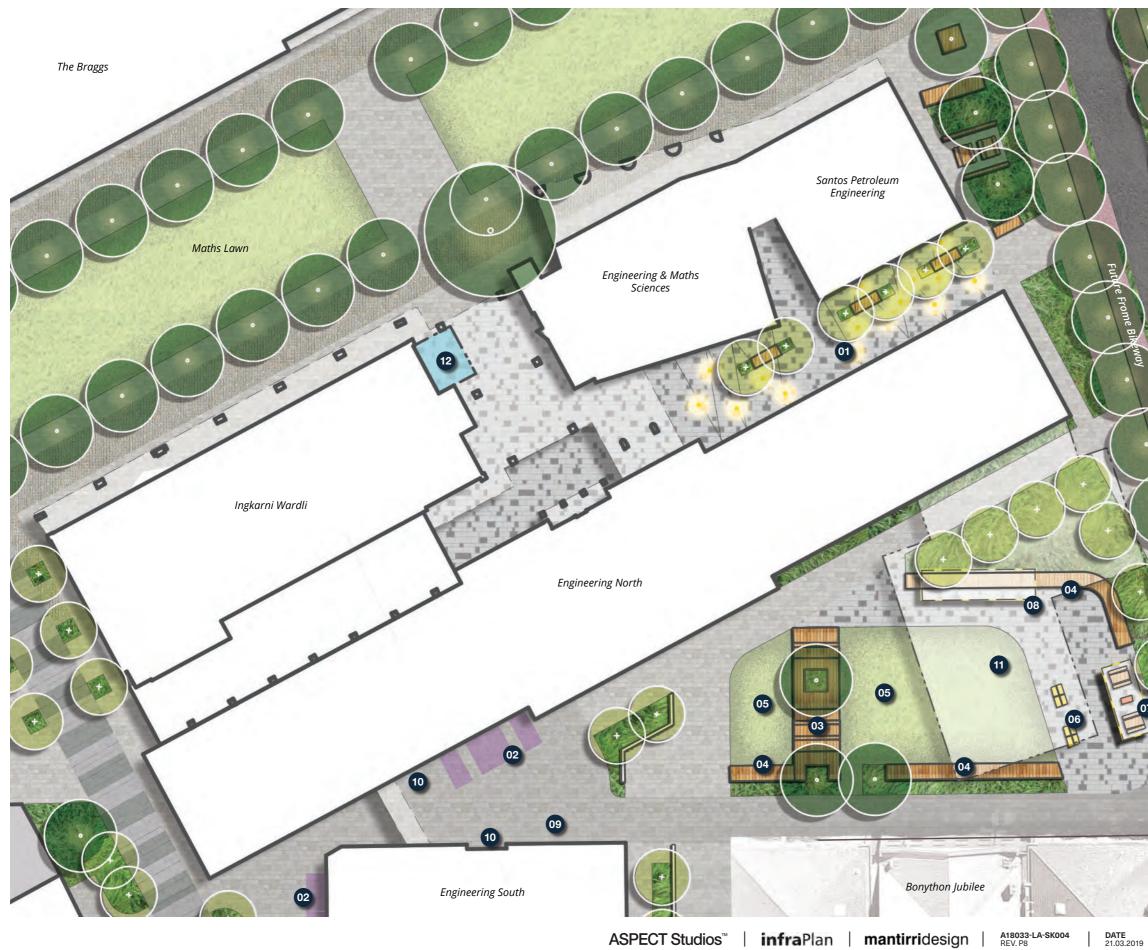






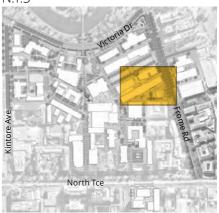


LANEWAY & ENGINEERING GARDENS (LONG TERM PLAN)





LOCATION PLAN N.T.S



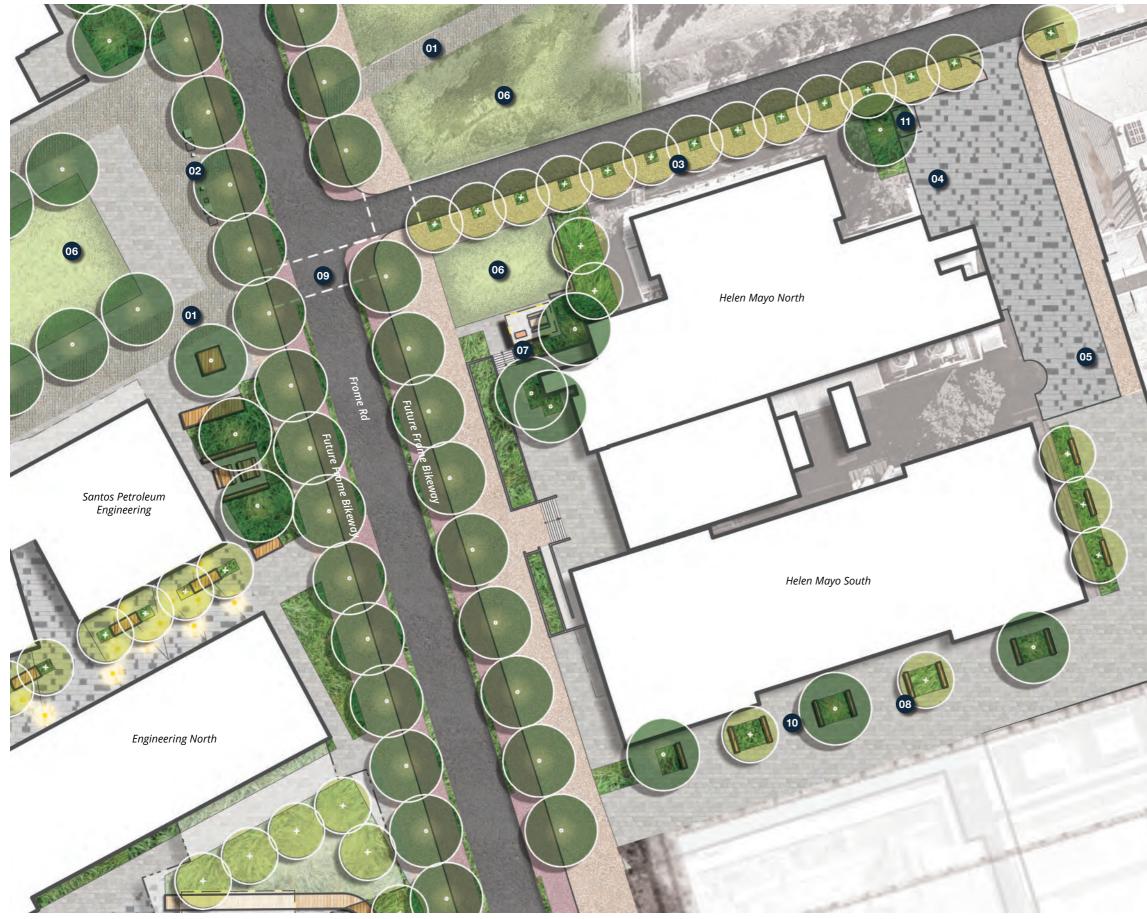
LEC	GEND
01	Engineering Laneway with catenary lighting and seating
02	Accessible car parking Seating
03	deck
04	Daybed
05	Lawn area
06	Table tennis table
07	BBQ / Shelter / Communal table
08	Canopy
09	Pedestrian priority service lane
10	Delivery zone
1	Potential future removal of Engineering Annexe (long term plan)
12	Bike Hub



SCALE: 1:500@A3



HELEN MAYO PRECINCT & BOTANIC GARDENS INTERFACE

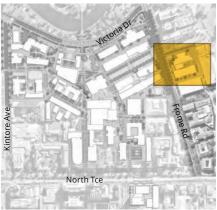




Lot Fourteen Car Park



N.T.S



LEGEND

01	Stone setts 'Heritage Trail' *
02	Relocated Mitchell Gates on Barr Smith Axis
03	Footpath to Lot Fourteen car park *
04	Rationalised loading zone
05	Accessible car parking
06	Lawn area *
07	BBQ / Shelter / Communal table
08	Tree planting with seating
09	Improved pedestrian crossing *
10	Delivery zone
11	Service Hub

NOTES

* Further consultation with external stakeholders including City of Adelaide, Renewal SA, SA Health and Art Gallery is required to realise these concepts.



SCALE: 1:500@A3





HELEN MAYO PRECINCT & BOTANIC GARDENS INTERFACE: ARTIST IMPRESSION









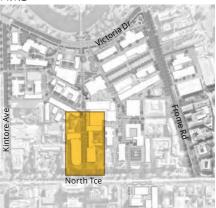


WESTERN DRIVE





LOCATION PLAN





LEGEND

- 01 Art Gallery Lawn *
- 02 Seating deck
- 03 Garden with integrated artwork and seating *
- 04 High quality paving extending North Tce boulevard treatment *

NOTES

* Further consultation with external stakeholders including City of Adelaide, Renewal SA, SA Health and Art Gallery is required to realise these concepts.



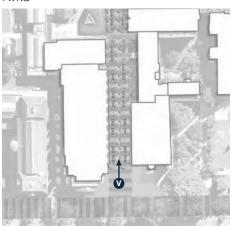




WESTERN DRIVE: ARTIST IMPRESSION







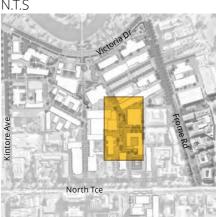




WALTER YOUNG GARDEN



LOCATION PLAN



LEGEND

01 High quality paving extending North Tce boulevard treatment 02 Rearranged stairs and ramp 03 Existing lift 04 Communal table 05 BBQ / Shelter / Communal table 06 Seating steps 07 Daybed 08 Lawn area 09 Seating deck 10 Rationalised loading area 11 Accessible car parking

12 Bike Hub (On Level 3 integrated with potential plaza redevelopment)



13 Service Hub (Level 1)



SCALE: 1:500@A3

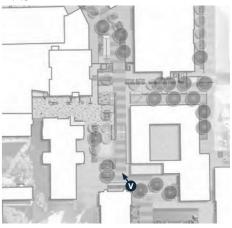




WATER YOUNG GARDEN: ARTIST IMPRESSION







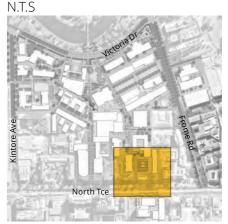




COLOMBO PLAN ALUMNI COURT



LOCATION PLAN N.T.S



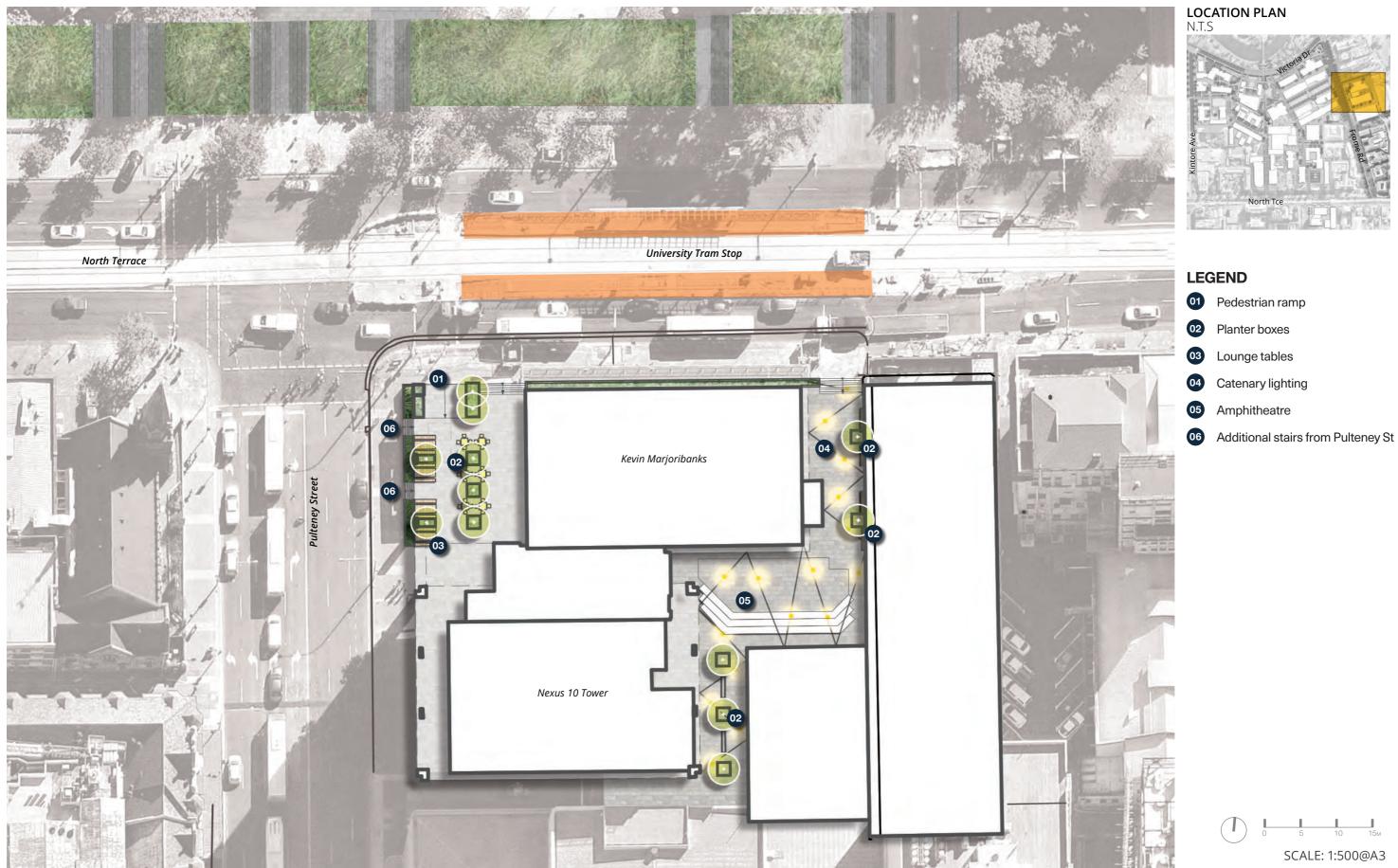
LEGEND

- 01 Widened stairs
- 02 Lightweight shade sail
- 03 Planter box with seating
- 04 Paving super graphic
- 05 High quality paving extending North Tce boulevard treatment
- **06** Existing umbrellas and tables





NEXUS 10 PRECINCT



|--|



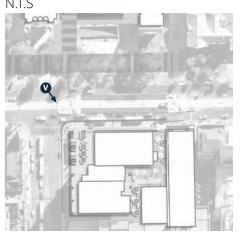


NEXUS 10 PRECINCT: ARTIST IMPRESSION





LOCATION PLAN N.T.S







Pedestrian Movement

A hierarchy of major and minor walkways are proposed that provide direct east-west and north-south access through the campus.

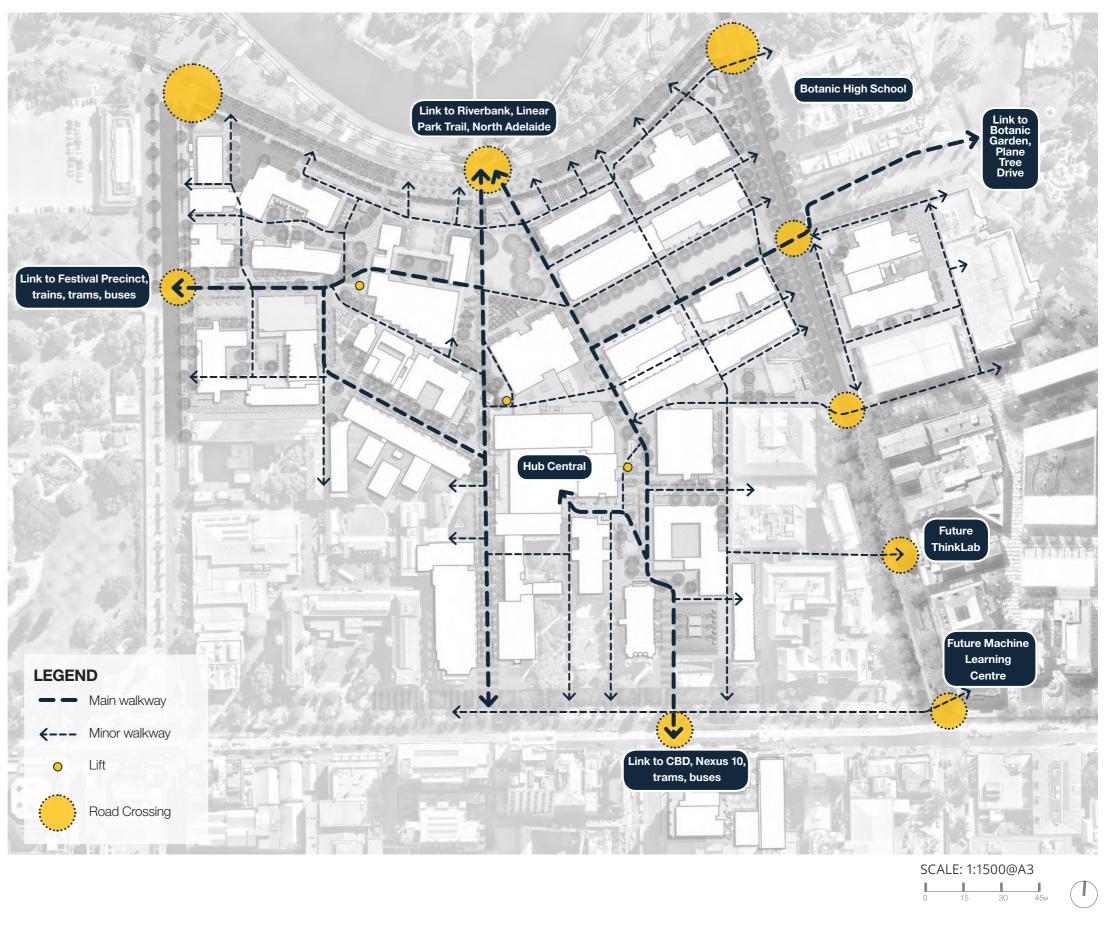
The alignment of these routes respond to pedestrian desire lines, provide direct and practical connections, and are separated from vehicle circulation routes where possible.

Pedestrian activity through the campus via Frome Road and Kintore Avenue will significantly increase as a result of the future Botanic High School and future University buildings (and other development) at the former Royal Adelaide Hospital site.

Gate 13 (Kintore Avenue) provides a direct link through the campus to these future developments from various public transport stops (train, tram, bus). In addition, the proposed upgrade of the Path of Honour between Kintore Avenue and King William Road, will attract more users to this access point. To strengthen this link, we have recommended a new passenger lift and upgraded stairs to be installed on the western side of Union House to provide access from the Path of Honour to the lower level of the campus and further to Botanic High.

Pedestrians crossing Frome Road will significantly increase at the junction of Victoria Drive (to Botanic High), as well as opposite the medical buildings and the relocation of the ThincLab to the eastern side of Frome Road.

The new tram stop on North Terrace will result in an increase in pedestrian access from North Terrace.







Cycle Movement

Key cycling routes are identified to provide east-west and north-south access and are supported with wheeling ramps (and/or lifts) at stair locations.

Where cycleways and walkways coincide, there will be sufficient width and appropriate alignment to minimise any potential conflict between pedestrians and cyclists.

Cyclist facilities surrounding the campus are good and includes the Linear Park Trail and the future Frome Bikeway, both separated from traffic. In addition, onroad bicycle lanes are provided on Kintore Avenue, and footpath cycling is facilitated with wide footpaths on Kintore Avenue and North Terrace.

A proposed BikeHub (showers, lockers and secure parking) in the new building that will replace the Horace Lamb Building will provide additional secure bicycle parks and other end-of-trip facilities.

Secure bicycle parking is provided at the buildings that have showers (Lady Symon, Badger and Hub Central) and other bicycle parking is provided by a set of rails at each building. Space will be created for these by the removal of car parks. A survey of students needs would help locate and identify the numbers of parks required.

A private bicycle rental company may also be encouraged to provide bicycles and bicycle parking pods on the campus.





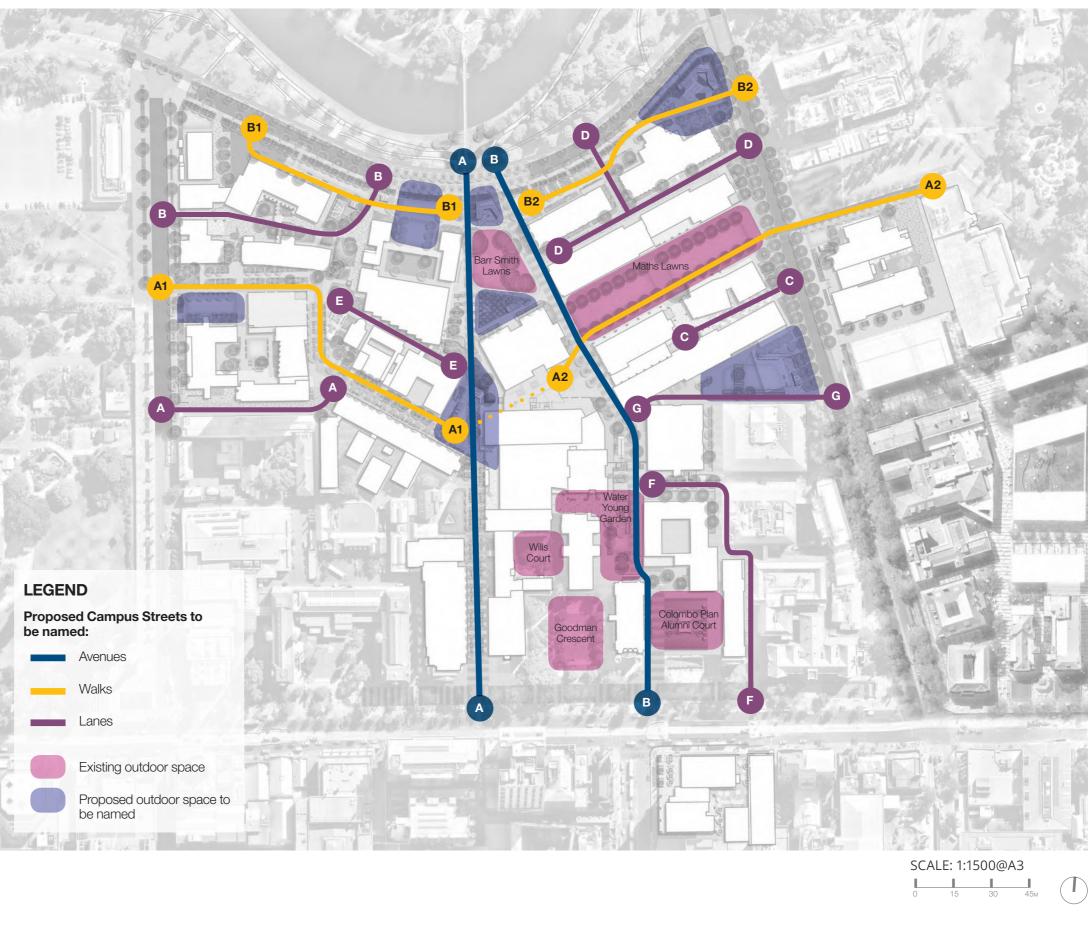


Wayfinding & Branding

The proposal of a network of Campus 'streets' to provide opportunities to improve legibility of the public realm. This network can potentially be divided into 3 categories (avenues, walks and lanes) to create a hierarchy of Campus streets and mirror the way people navigate in cities. This potential city-like grid can improve navigation within the Campus by providing decision making points and wayfinding signage location at street intersections.

This network of Campus streets also creates an opportunity to honour past students and staff with street names and outdoor spaces, also in a city-like system.

One entrance point in each side of the Campus would also receive Kaurna names in acknowledgement to the traditional owners of the land.

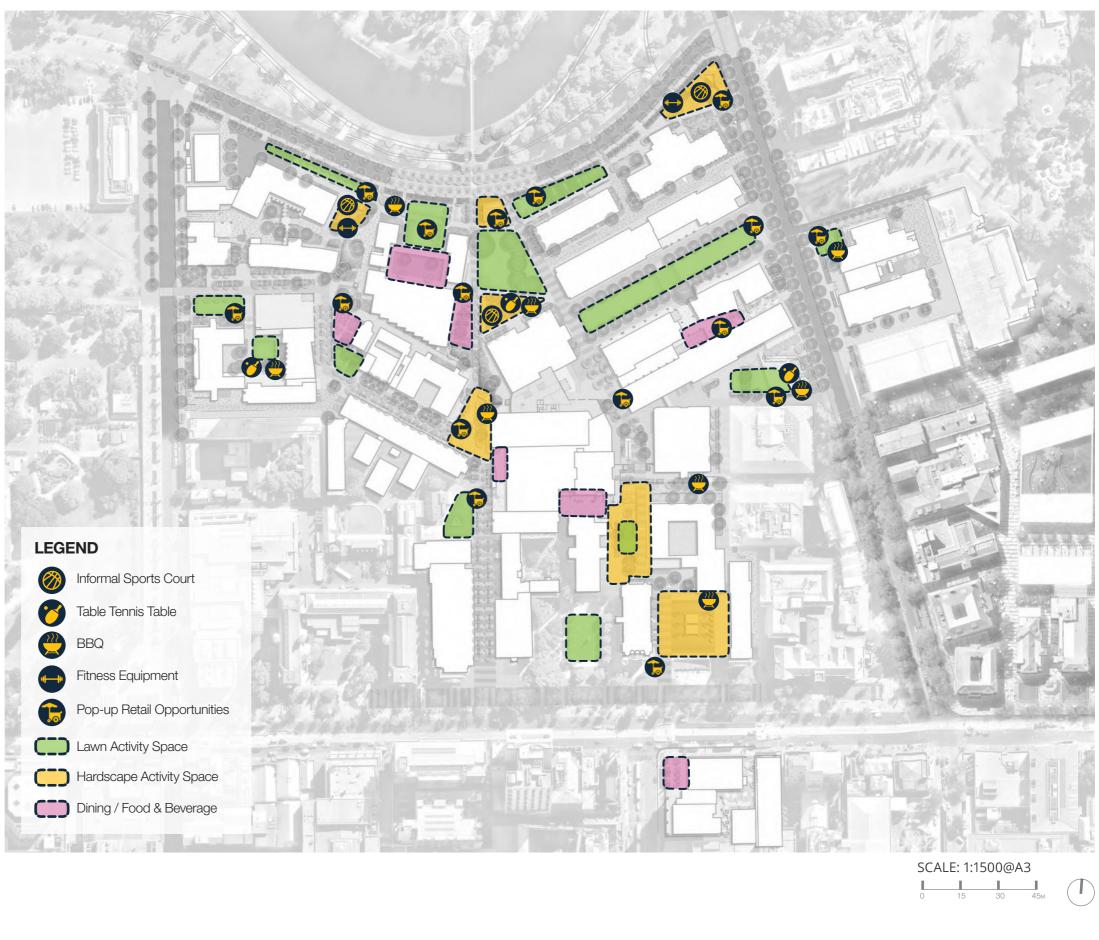






Activation

To achieve the desired activation of the Campus, a series of outdoor spaces and infrastructure are to be provided throughout the Campus. Lawn and hard paving areas allow for a range of social activities and the provision of connection points for pop-up retails allow for easy set-up of events. Proposed infrastructure such as informal sports courts, table tennis tables, fitness equipments can improve activation of the Campus by encouraging users to stay longer without the need for programmed events. Small fixed BBQs and picnic settings would also be provided to cater for small student events without the need for temporary infrastructure to be assembled for every occasion.



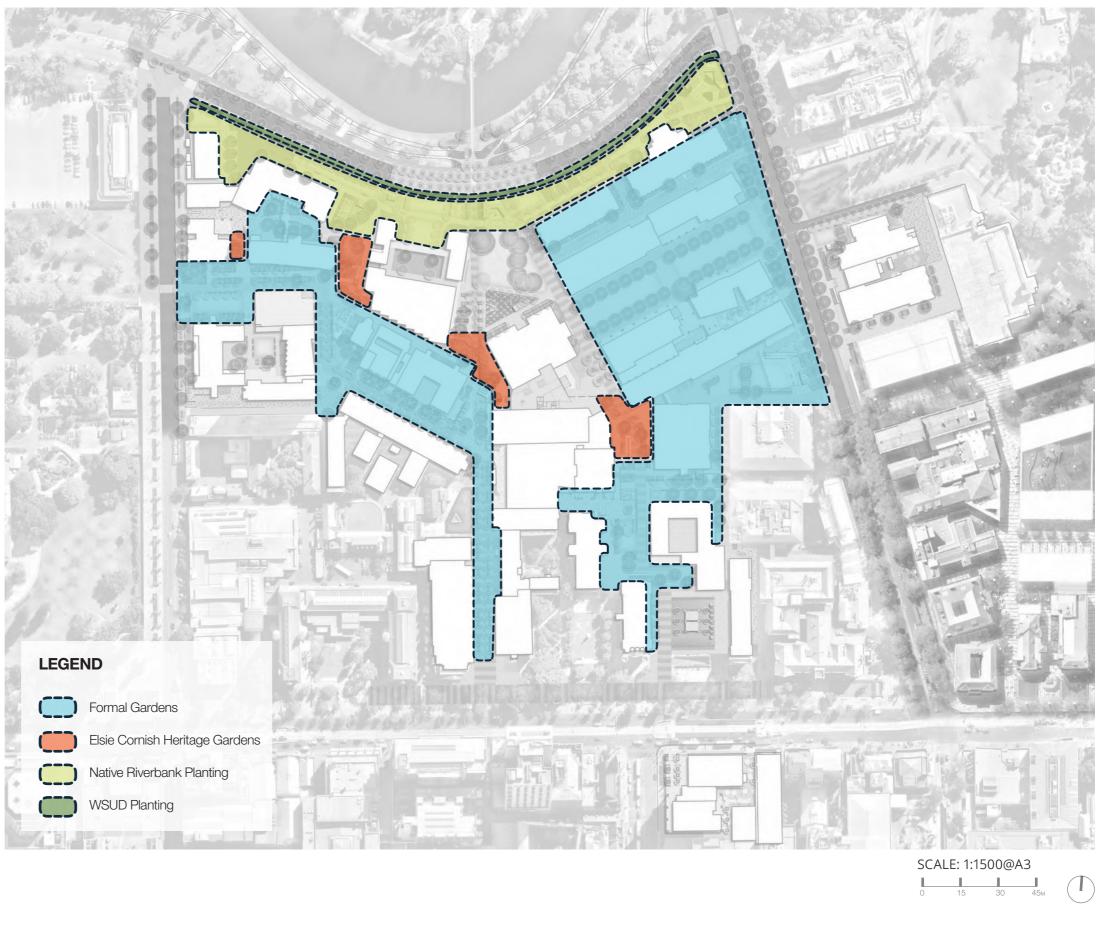




Planting Character

The proposed planting character emphasises the desire to connect the Campus to its surroundings. The planting character along Victoria Drive would follow the adjacent native riverbank planting while areas along Kintore Avenue, Frome Road and North Terrace would follow the formal gardens character.

The landscape areas along the remaining visible 'escarpment' would have succulent gardens as per the original Elsie Cornish heritage gardens.







Indigenous Culture Interpretation

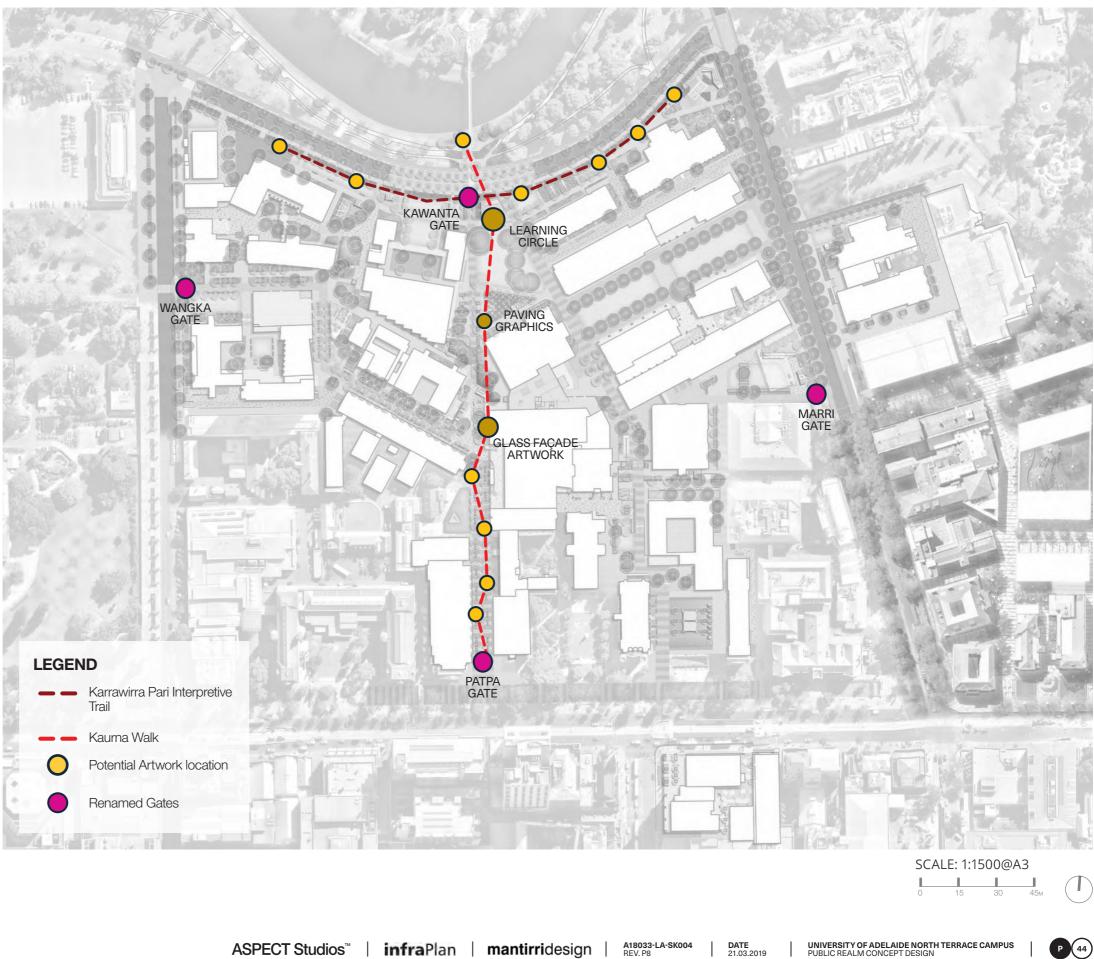
The concept design for the Campus public realm provide a great opportunity to incorporate information about Kaurna culture.

Key aspects of their culture and their interaction to the Campus site and river would be displayed in cultural markers, wayfinding signage and artwork around the Campus.

A learning circle, proposed in front of the Barr Smith Lawn, would become a ceremonial and knowledge sharing space.

Arranging these elements to create 'walks' through the Campus would encourage people to explore the public realm of the Campus and, at the same time, provide information about the Kaurna people.

It's also proposed that 4 campus gates would be renamed with Kaurna words for North (Kawanta), South (Patpa), East (Marri) and West (Wangka)





Indigenous Culture Interpretation





Smoking Ceremony Preperation Platform



Learning Circle Event

Learning Circle





DuraTherm Asphalt Graphic







Acid-Etched Glass Artwork



Acid-Etched Glass Artwork



Timber in Kaurna engraving pattern

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DATE 21.03.2019

Pavement Graphics

DuraTherm Asphalt Graphic



Glass Facade Artwork

Decorative Coloured Glass Film



Cultural Walk

Natural Timber Poles with engraving





Steel Kaurna Cultural Marker

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infraPlan mantirridesign

Electronic Kiosk

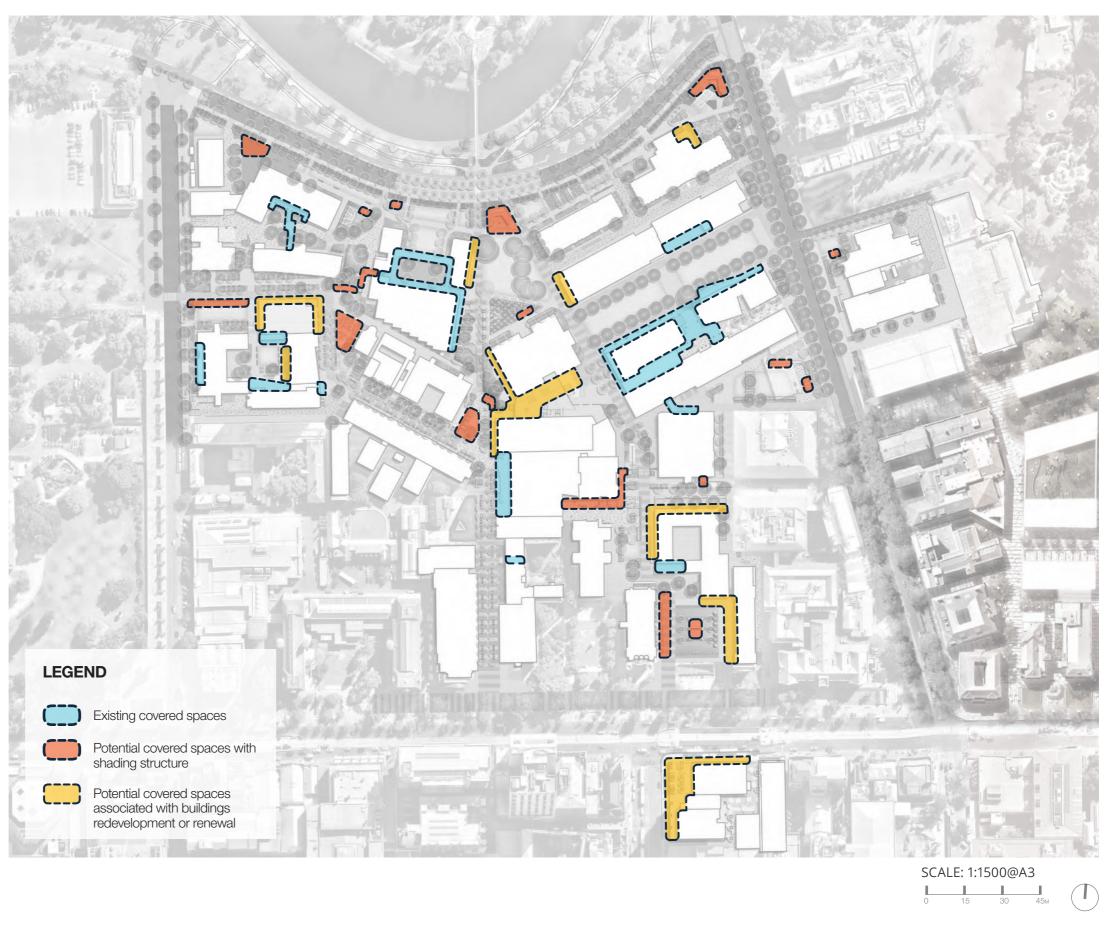






Outdoor Weather Protection

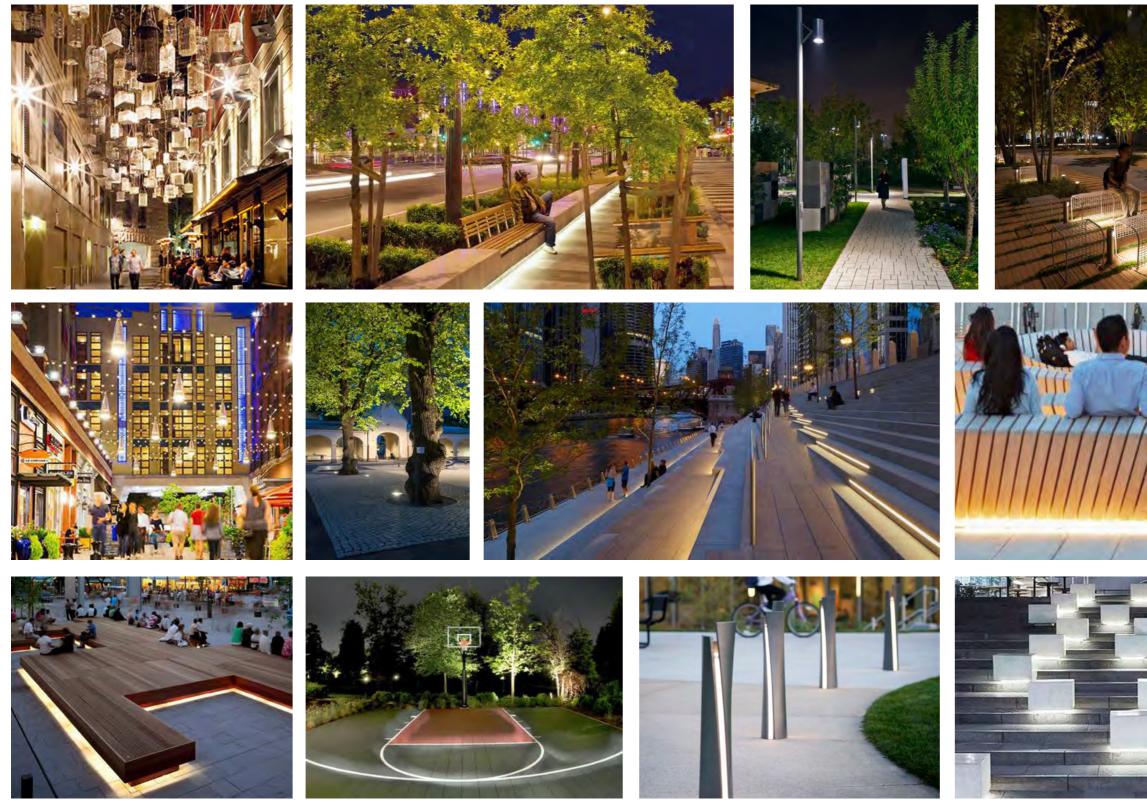
In order to improve activation of the Campus, it's important to provide outdoor spaces that can be used all year long. Existing covered spaces are generally at building entries. In addition to these locations, potential canopy structures and covered walkways related to future building developments can provide a more consistent sequence of weather protected spaces and encourage the use of the Campus public realm throughout the year.







LIGHTING









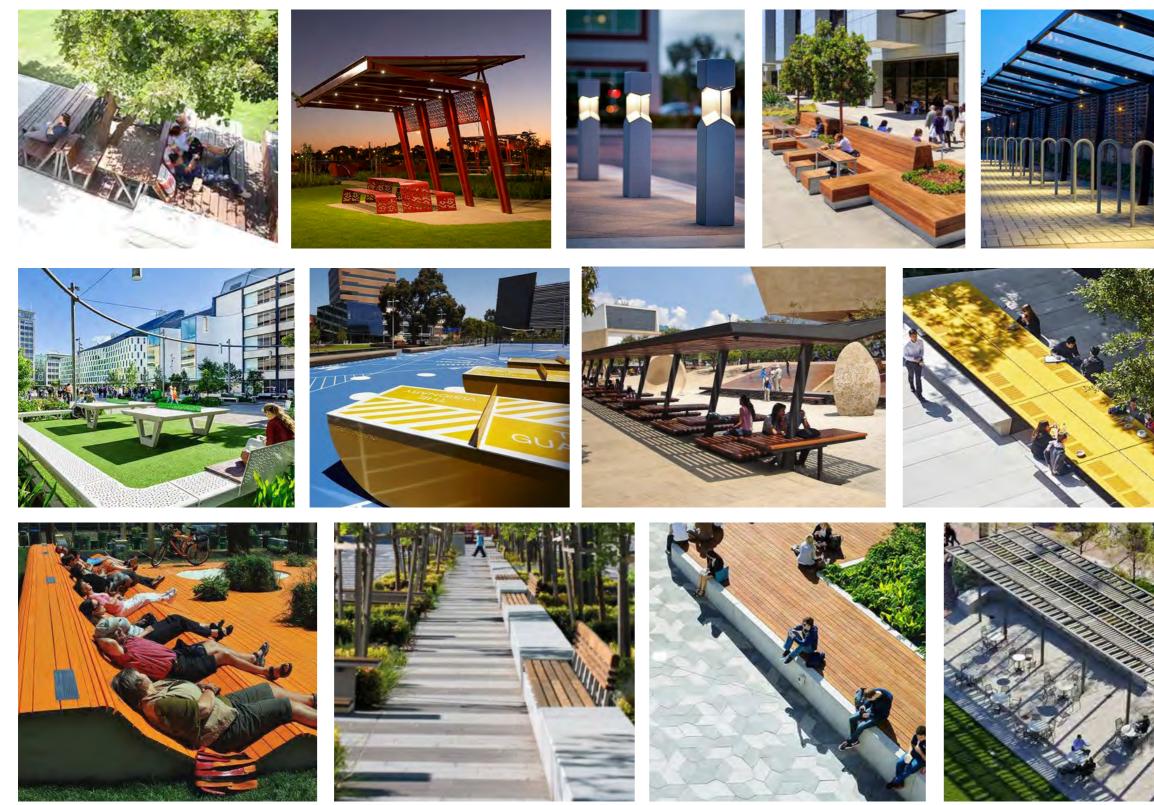
NOTES

• Feature lighting integrated with furniture and urban elements as an additional to general lighting to ensure safety of public spaces around the Campus at night.





FURNITURE & STRUCTURES









NOTES

 Placement and selection of furniture such as benches, walls, planters and bollards to help mitigate vehicleramming risks, specially at the edges of the Campus.





PUBLIC ART









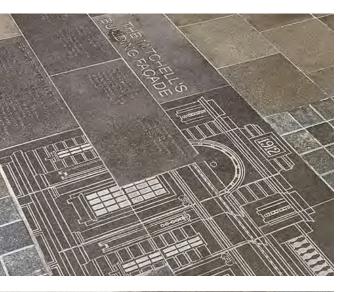
















UNIVERSITY OF ADELAIDE NORTH TERRACE CAMPUS PUBLIC REALM CONCEPT DESIGN

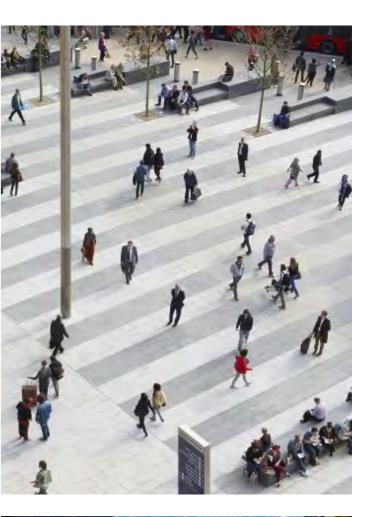




PAVING













03 URBAN ELEMENTS & DESIGN PALETTE

PLANTING

Formal Gardens



Elsie Cornish Gardens







Informal / Indigenous Planting (Riverbank)



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DATE 21.03.2019

WSUD Raingardens



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