

Thebarton Streetscapes Concept Design Report

Prepared for the City of West Torrens April 2015





JPE Design Studio Level 4, 19 Gilles Street Adelaide 5000 South Australia Australia

p +61 08 8406 4000 design@jpe.com.au www.jpe.com.au

ABN 97 007 776 249

contents



above: site context map showing streetscape concept project site area (yellow) within the broader Thebarton Precinct, north of West Thebarton Road/Phillip St

Context & Analysis

- 1. Project Scope and Objectives
- 2. Key Precinct Issues
- 3. Urban Design Strategies
- 4. Streetscape Photographic Assessment
- 5. Street Tree Assessment Summary
- 6. Precinct Activity Map
- 7. Streetscape Precedents
- 8. Shared Trail Standards

Key Design Principles & Character

- 9. Key Design Principles
- 10. Design Character

Streetscape Concept Designs

- 11. Holland Street Bikeway
- 12. The Meeting Place at Holland Street
- 13. Winwood Street
- 14. Stirling Street
- 15. Anderson Street

Appendices

- A. Street Tree Assessment Report
- B. Summary of Stakeholder Workshop Outcomes
- C. Holland Street Profile Testing







Context & Analysis

1.0 project scope & objectives

The Thebarton Streetscapes Design Concept project represents a significant investment by Council into the Precinct to deliver an improved street framework that recognises the changing dynamic of the Inner-West of Adelaide.

The project's objectives, defined below, demonstrate the potential of this project to be a catalyst for the precinct and set a new benchmark for streetscape design within Thebarton and the Council region in general.

- Deliver approved strategic actions identified in the Master Plan for the Precinct (Thebarton Technology Hub Master Plan, BioSA/ City of West Torrens/ JPE 2013)
- Improve the amenity and access of each street for pedestrians and cyclists, while
 recognising requirements for vehicular movement and parking in the precinct, and the
 potential for future redevelopment and changed land use within the precinct.
- Identify opportunities for WSUD, such as the establishment of rain gardens, working in conjunction with the existing stormwater infrastructure that extends along the length of Stirling and Holland Street(s).
- Identify opportunities for increased tree planting, and/or staged replacement of existing street trees where necessary.
- Identify ways to celebrate/recognise the significant heritage buildings in this site area through landscape/urban treatments
- · Identify locations for wayfinding signage
- Identify links to side streets/ other pedestrian connections.
- Consider the broader cycling network plan and the role of Holland Street in reinforcing this cycle infrastructure.
- · Integrate opportunities for street activation and community activities

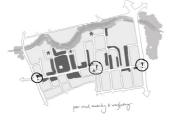












Poor visual amenity & wayfinding



A vehicle focused environment



Green Streets & Spaces

The 'greening' of streets and spaces throughout the Hub will improve the amenity of the area, making it an attractive place to work and visit, and reinforcing the Hub's connection to the River Torrens Linear Park, Bonython Park and Kings Reserve.

Green infrastructure such as increased street tree planting, understorey planting, and water sensitive urban design (WSUD) will redefine the precinct's perceived image as an industrial 'no-go zone', while increasing habitat, and encouraging recreation as an extension to the linear park trail.

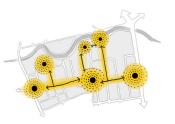
(sourced from the Thebarton Technology Hub Master Plan)



Links & Connections

The reinforcement of links and connections throughout the Hub will encourage more people to walk or cycle, increasing the visual activation and passive surveillance of the Hub's streets and open spaces.

Improvements to infrastructure and amenity along key routes, such as street trees, seating, continuous footpaths/cycle lanes and safe and accessible crossing points will help to promote a culture of walking and cycling.



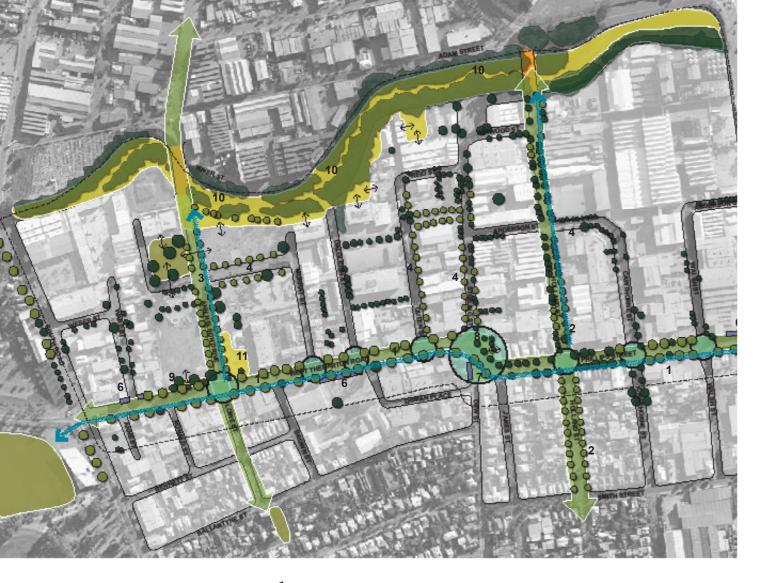
A Shared Identity

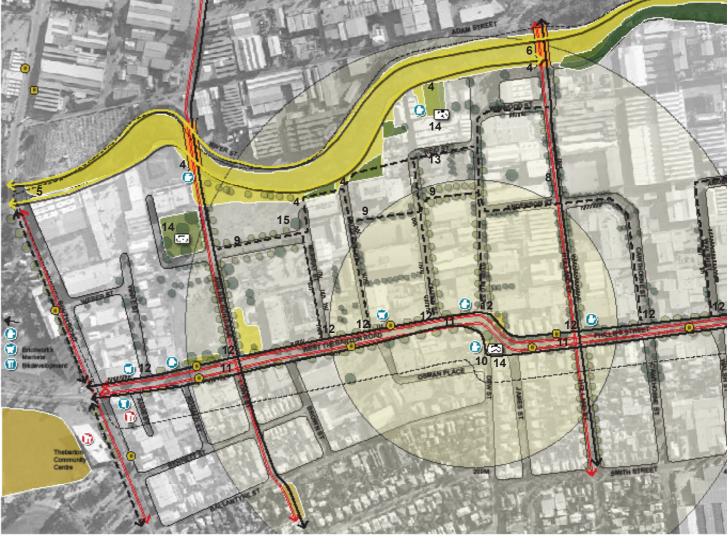
By capitalising on the prominent and historically significant built form at the Hub's major roadway entrances, the Hub's identity will be strongly presented to the broader community, interstate and international visitors.

Through the use of consistent design language, signage and planting, internal gateways within the Hub and at key institutions will further reinforce the Hub's identity.









green streets and spaces

Key Actions

- Increased tree planting and landscape along West Thebarton Road/ Phillips Street to create a 'green corridor' (at the expense of some on street car parking)
- 2. Increased tree planting and landscaping along Holland St to create a 'green corridor'
- Increased tree planting and landscaping along Ann Nelson Drive to create a 'green corridor'
- Increased street tree planting along other side streets where possible
- 5. Increased planting to road verges in the precinct
- Creation of 'green walls' (vertical landscape) along fences/walls to increase visual amenity.
- Creation of a new park area adjacent to the Olive Tree café, achieved by the closure of Dew St at Phillip St, with reconfiguration of car parking.
- Improvements to the pocket park next to the old Church Hall at Phillips St/ West Thebarton Road
- Explore short-medium term activation of the BioSA site fronting West Thebarton Road, potentially via landscaping/ street furniture/ public art/ pocket park
- Improved landscaping and maintenance along the river edge
- 11. Potential long term conversion of Thebarton Incubator surrounds to community open space

Legend

- Existing tree planting
- Proposed tree planting
- Existing Open Space
- Improved open space
- Vertical landscape opportunity

Landscape Gateway

- Greenway' Connection
- Access to open space to reinforce
- WSUD Opportunity

links and connections

Key Actions

- 1. Improvements to bicycle paths and connections
- Upgrades to the quality of the footpath along West Thebarton Road/Phillips St
- 3. Improvements to footpaths in side streets in the precinct
- 4. Improved connections to the Linear Park Trail
- 5. Continuation of the linear park trail to South Road
- 6. Restored or new bridge crossing from Holland St across the River Torrens
- Future additional pedestrian/cycle bridge connection linking the precinct to Holden Street Arts Precinct and Hindmarsh Stadium
- 8. Development of Holland street pedestrian/cycle link 9. Create improved East-West pedestrian link through
- back of site, joining to Anderson St.

 10. Closure of Dew St at Phillips St/West Thebarton Rd, to create a safer footpath connection and usable park
- 11. Provision of improved signage at key pedestrian and cycle crossing locations, to alert drivers
- 12. Paving at the entrance to side streets, to promote a 'pedestrian' environment and calm traffic
- Allow 2 way traffic along Reid street to improve vehicle access around the University Campus
- Establish a free bike hire service (with multiple pickup/ return points) to allow ease of movement throughout the Hub, and to other destinations (eg RAH/ SAHMRI)
- Provide increased off street car parking capacity for local business at the end of Murray Street, utilising BioSA land.

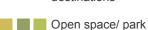
Legend

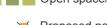
- Shared use trail (pedestrian/cycle)
- ←→ Secondary pedestrian route/ Streetscape
- <-> Cycle connection
- ♠ Proposed bicycle hub
- 200M Walking radius

1 Bus stop/ Tram stop









Proposed new/ upgraded bridge link







a shared identity

Key Actions

- 1. Explore ways to improve the identity and presence of the precinct at the main entrances (Port Road, South Road and the Holland Street Tramway Bridge)
- 2. Improve signage at each street entrance to identify destinations and key businesses
- Open views to significant heritage buildings in the
- Develop 'end points' to views along streets to the river edge to create a sense of arrival, using landscape/ tree planting/ public art
- Encourage more active building/street interface (enable views between street and building activities) to increase the sense of vibrancy and activity in the
- 6. Explore ways to integrate public art into the streetscape, linear park and open spaces

Legend

- Precinct Gateway
- Internal Precinct
- Bus stop/ Tram stop

character

Significant built form

- Future Gateway
- Cafe/ dining/ retail destinations
- <-> Sightline or significant view
- (f) Community/ entertainment • End Point' of view destinations
- Visually active frontage (current areas)
- State heritage item* Local heritage item*
- Visually active frontage (key proposed areas)

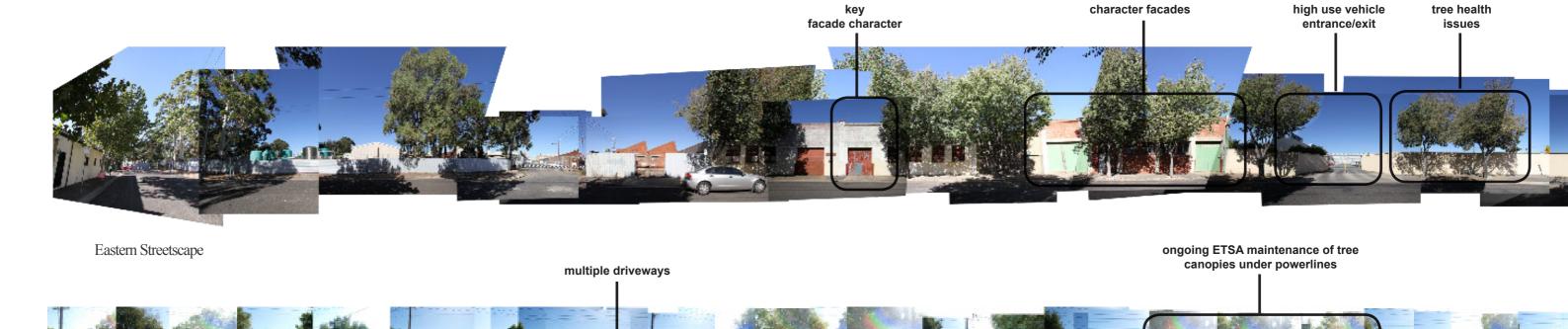
"Actions identified for priority delivery within the next 5 years include, first and foremost, the upgrade of the pedestrian and cyclist bridge connection linking Holland Street to the north side of the River Torrens, including entertainment, cafe, restaurant and retail destinations along Port Road"

Extract from Thebarton Technology Hub Master Plan Action Plan





4.0 streetscape photographic assessment



Western Streetscape

Holland Street

key issues

 industrial/ comercial use at end of street including heavy vehicle movement and driveway crossovers



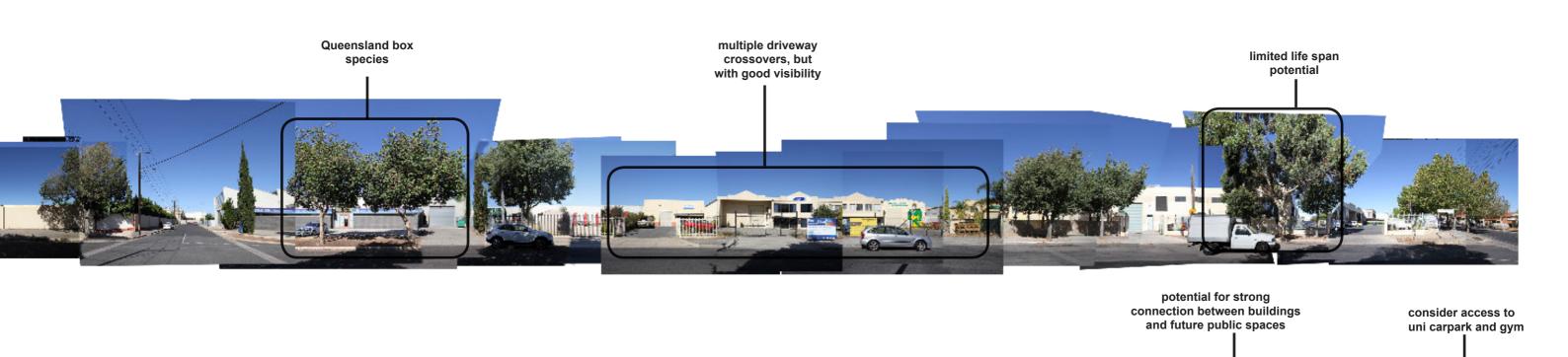
Paving and kerb damage, Holland Street



Future power line clash, Holland Street







key opportunities

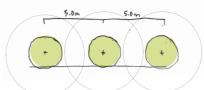
- expression of high character facades
- Street tree rejuvination including size increase to existing pits or new planting with Water Sensitive Urban Design (WSUD)



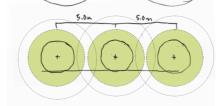


Planning for Tree Growth Over Time

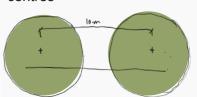
0 years: Initial street tree planting spaced at 5m centres (based on medium to large mature species)



10 years: Tree canopies start to touch as specimens mature, limiting further growth



15-20 years: Middle tree removed to enable mature growth of remaining specimens to occur at 10m centres









Southern Streetscape



Northern Streetscape

Winwood Street

key issues

- unclear and cluttered footpaths on both sides
- minimal tree amenity/shade
- poor road condition
- minimal building interface opportunities (no pedestrian exits or entrances)

key opportunities

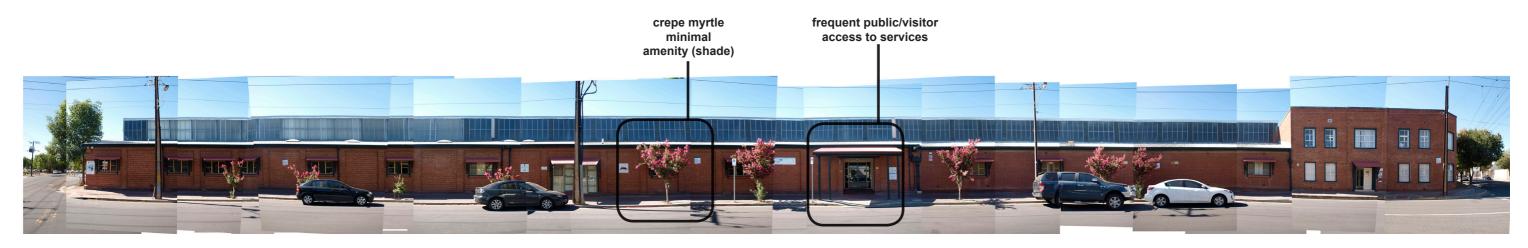
- development Winwood Street character to visually connect Holland street bridge with the uni precinct
- improved tree planting and WSUD
- define street profile as a shared use pedestrian/cycle and vehicular zone







Southern Streetscape



Northern Streetscape

Anderson Street

key issues

 inconsistent footpath along south side of street

key opportunities

 new tree planting along south edge with WSUD









Western Streetscape

Stirling Street







key issues

 lack of tree planting and shade to western streetscape

opportunities

- embrace the red brick character and connect visually to Holland and Windwood Street
- Improve tree planting to Western edge
- Improve pedestrian amenity and uni 'Gate way' character





5.0 street tree assessment summary



The following evaluation of street trees within the Thebarton precinct was undertaken by JPE, together with City of West Torrens. The objective of this evaluation was to review the character and condition of existing trees, to inform future streetscape planning.

Stirling Street

Queensland Box currently features as the predominant street tree, applied consistently along the length of the eastern streetscape until the junction of Reid and Stirling streets, whereby tree species appear to have been planted without an overarching strategy. The existing mature Queensland Box specimens along this eastern streetscape, while planted into a narrow verge, are generally healthy and highly contributory to the street character. While the absence of overhead power has enabled strong canopy form to develop, the canopy balance of several specimens has been limited by the proximity of built form (walls). No visible damage to buildings was noted at the time of inspection

Tree planting is absent along much of the western streetscape with exception to the streetscape north of Anderson Street, which features Queensland Box of varying character and small size generally. Several mature Peppercorn specimens are also present along the edge of the University car park, and assist with the screening of this area and adjacent service areas. The root activity of Queensland Box trees adjacent the Alaska Towers (local heritage) building is noted as causing building damage.









The following schedule of street trees provides a general evaluation of each specific tree, inclusive of species type, comments about its condition, and a broad review of its form (character) and health. This report does not constitute an arborist assessment.

Holland Street

Mediterranean Hackberry (Celtis) have been used as the main street tree, with several exceptions at the northern end of the street (north of Winwood Street intersection) which features London Plane trees, and at the intersection with Anderson street (east), which features Queensland Box.

Regarding the Queensland Box (5 specimens), the current health of these trees and the absence of other Queensland Box specimens in this streetscape presents a strong case for the replacement of these trees on Holland Street with Celtis species.

In general, the Celtis Species appears to be an appropriate choice, with the majority of specimens noted to be in good health, despite the poor tree pit design and extent of hard paving.

The canopy structure of the Celtis, with branches that become gradually lighter in structure, means that they respond well to pruning and can subsequently return to strong character and form. For this reason, there is justification for the retention of these tree plantings in the short-medium term, though the requirement for pruning under the power lines along the western edge (3 yearly) needs to be





Anderson Street

A brief summary of the

is provided below.

landscape (tree) character and

key species of each streetscape

The northern side of Anderson Street features consistent planting of young Crepe Myrtle specimens The low mature height of this species is appropriate given the powerlines above, however the shade provision and amenity value of this selection is limited based on their current spacing (10-15m typical) and likely mature

The southern side of the street features a row of Jacaranda specimens which are highly contributory to the street character, due in part to the absence of tree planting along the south-eastern portion of the street. The condition of these trees has been compromised due to extensive pruning over time.

A single large Fraxinus (Ash) tree features at the western extent of the street, offering high landscape value to the streetscape.





- inappropriate tree pit design and
- by Celtis species, Holland Street
- Paving damage, Holland Street Jacarandas on Anderson Street
- 'Green' street character along the
- east side of Stirling Street
 Pyrus trees at the SE end of Win-
- Plane trees at the northern end of
- Holland Street Queensland Box planting adjacent buildings in Stirling Street (east)

Tree schedule legend:







Winwood Street

The overall landscape character of Winwood street is inconsistent. with no dominant tree species. Rows of Native Frangipani and Pyrus make up the southern streetscape. While the Pvrus appear to be in good condition, the Native Frangipani specimens have been less successful in this street condition.

The northern side of the street includes a number of palms, some of which are located in the footpath zone. While seemingly out of place within the streetscape, their selection is likely due to the prevalance of Palm trees within the University campus open space.

A large Corymbia specimen and an adjacent Peppercorn tree feature at the SE corner of the car park, and provide screening value to the building and telephone tower behind.













6.0 precinct activity map







7.0 streetscape precedents













- Bank Street, Adelaide
- Leigh Street, Adelaide
- 3. New Road, Brighton UK
- 4. Bowden Development, Adelaide
- Second Street, David Baker + Partners Architects (USA)
- 6. 'Copenhagen' Style separated bikeway

8.0 shared trail standards

Om Local Access

- Constrained conditions
- 'Tidal flow'

2.5m Commuting and local access

- Regular use
- 20km/h

3.0m Commuting

- Frequent and concurrent use in both directions
- 30km/h

3.0m Recreation

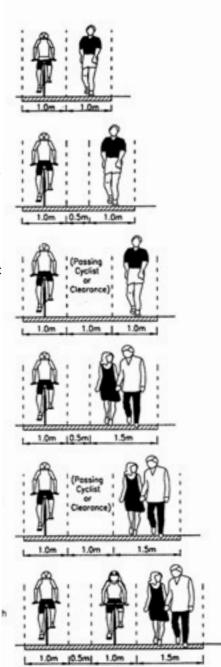
- Regular use
- 20km/h

3.5m Commuting and Recreation (concurrent)

- Frequent and concurrent use in both directions
- 30km/h

4.0m Major recreational path

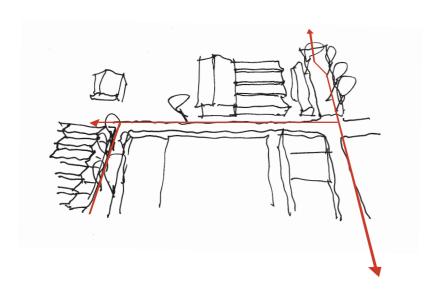
- 20km/h
- Heavy and concurrent use in both directions



source: Austroads (1999)

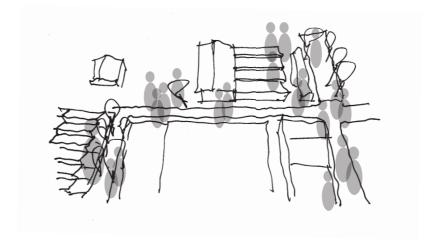
Key Design Principles & Character

9.0 key design principles



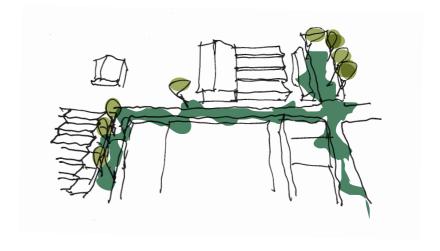
The Thin Red Line

A linear band of red bricks within the pavement acts as a linking and wayfinding element between the streets and places within the precinct. This material has been selected based on its prevalent use in industrial warehouses and buildings throughout Thebarton.



People First

Providing a streetscape for safer pedestrian and bicycle movement equates to a more inclusive streetscape environment, no longer dominated by vehicles.

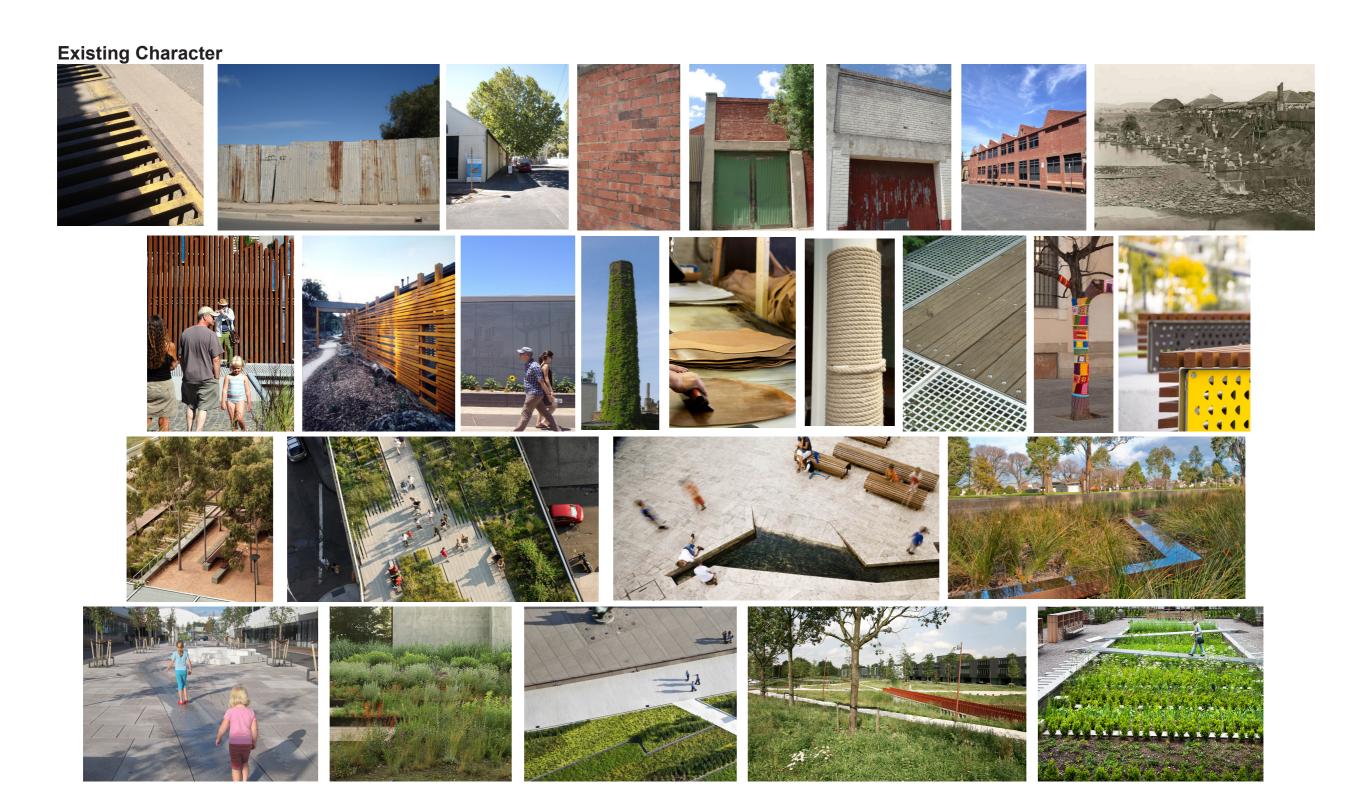


Natural Systems

The integration of WSUD within a streetscape scheme provides a subtle link to the neighbouring river, whilst also responsibly treating stormwater catchment. WSUD will be a key driver of the streetscape arrangement.





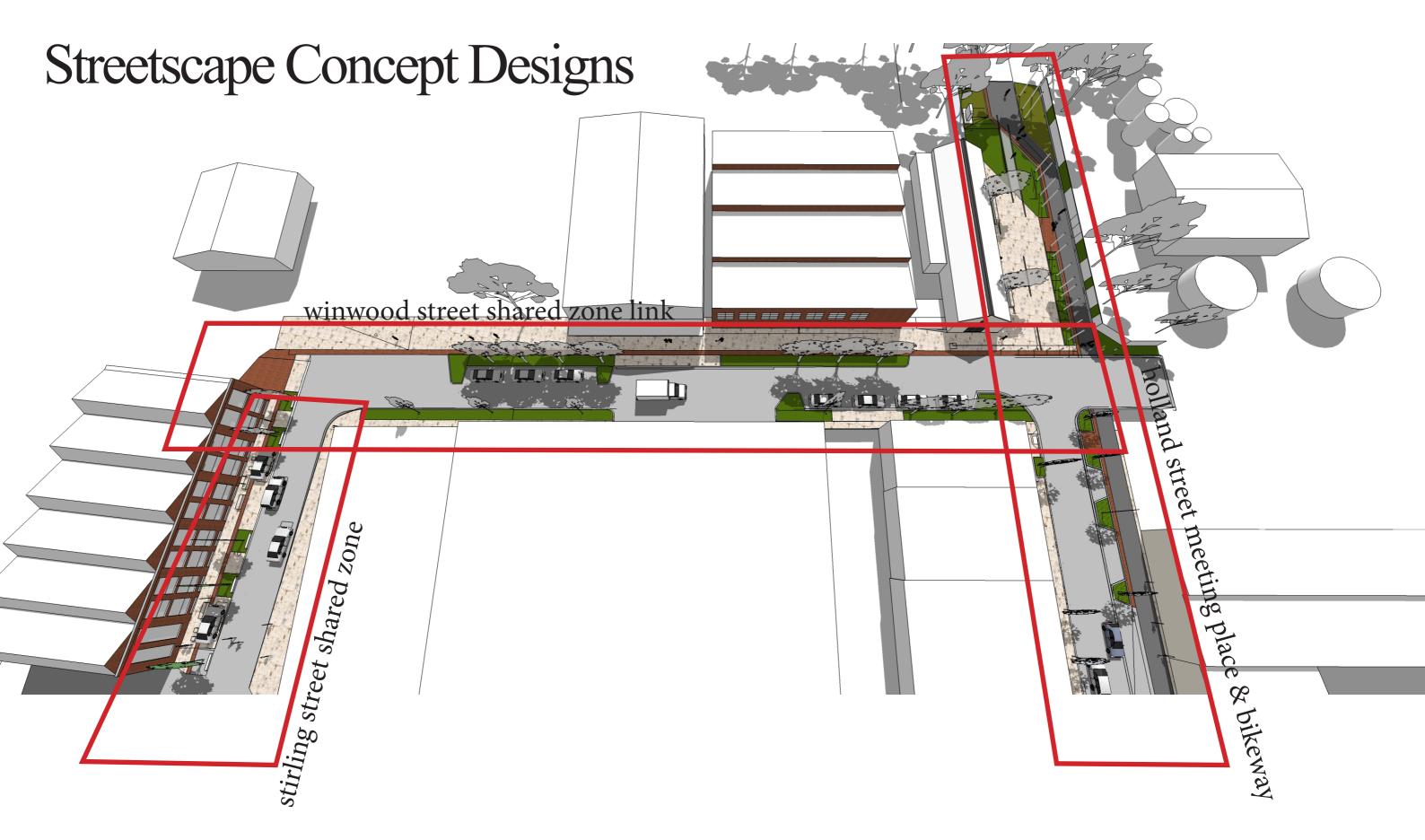


10.0 design character

celebrating industrial history and character (fellmongery, tannery, eucalyptus distillery, rope manufacture, brick making)
water sensitive urban design initiatives (water capture and reuse, connection to river torrens linear park)
place-making and community engagement (flexibility of spatial use and programming, consideration of changing land use & zoning, public art and community expression)





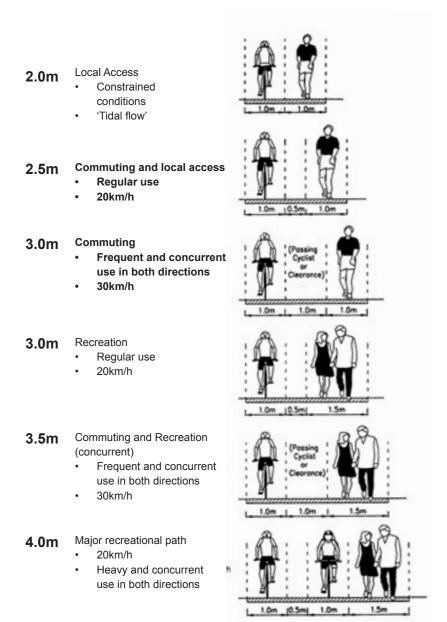






11.0 Holland Street bikeway

The bikeway to Holland street is the beginning of a bikeway link to connect the Holland Street bridge, northern Thebarton, to predominatley West Thebarton Road/Phillip Street, connecting bike commuters to an east-west link into the CBD. The following depicts a typical cross section showing 2.5m bitumen cycle track beside WSUD tree pits.





Holland Street Bikeway Proposed Typical Street Profile

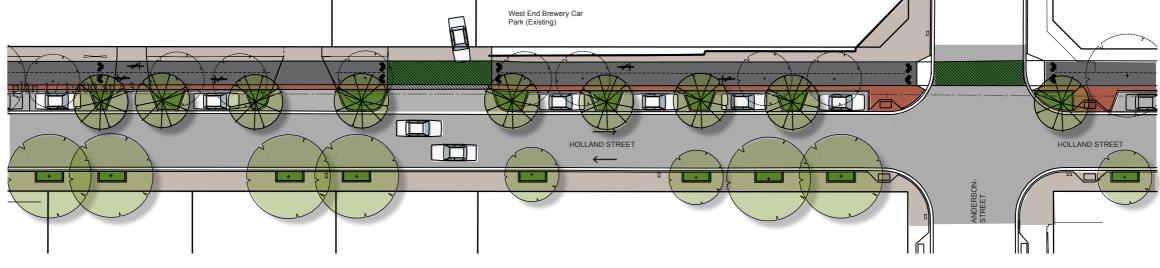
- western footpath: paving upgrade and improvements to tree pits/landscape extent. Upstand kerb condition retained.
- 2. 6.2m carriageway
- 3. 2.1m parking zone with roll over kerb or WSUD tree pit with upstand kerb
- 4. 0.5m transition (door swing) zone in contrasting material (red brick)
- 5. 2.5m bitumen cycle and pedestrian path
- 6. eastern footpath to building edge (width varies according to built form setback)

source: Austroads (1999)











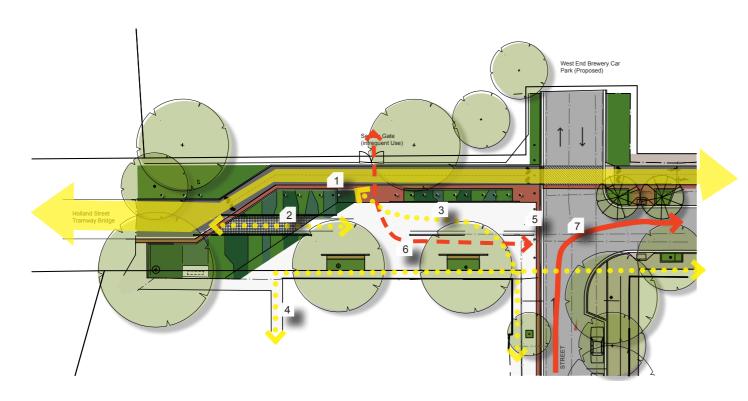






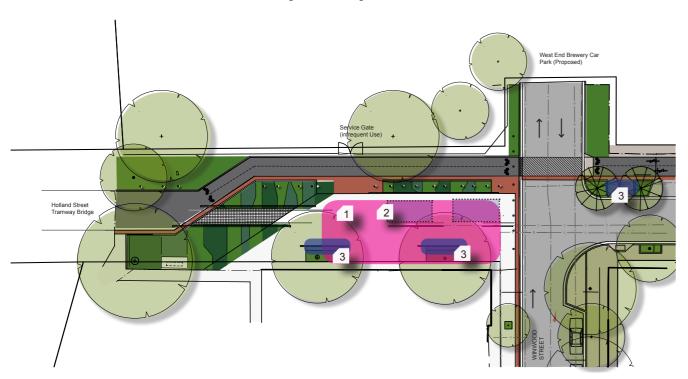






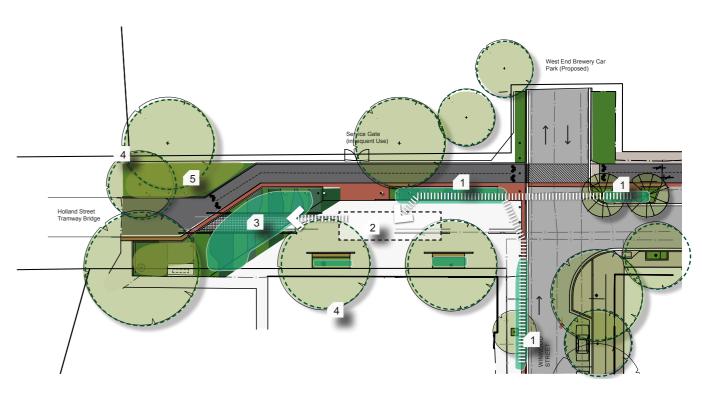


- 1. Cycle & Pedestrian trail (2.5m width)
- 2. Swale crossing pedestrian link
- 3. Plaza link between trail and Winwood St
- 4. Footpath link to University Gym
- Flush/ spoon drain transition with bollards to increase ease of cycle and vehicle access to plaza area
- 6. Occasional large vehicle access to brewery storage area
- 7. Turning zone for larger vehicles from Winwood Street



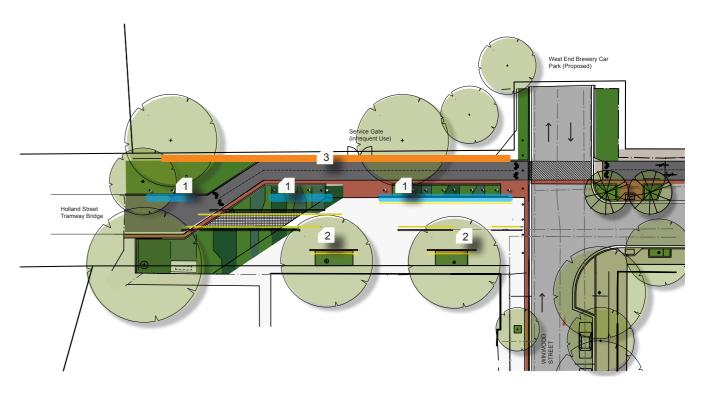
Spatial Planning

- Flexible plaza space for events and gathering separated from bikeway
- 2. Zone for food trucks/ markets
- 3. Fixed seating positions for daily use



Landscape Systems

- 1. Water run-off from paved/ road surfaces is captured in an interconnected system of landscape beds, and filtered by vegetation
- 2. Filtered run-off is directed to underground water tank within plaza
- 3. Any overflow water from the storage facility is directed into a landscape swale
- 4. Existing trees retained
- 5. Revegetation to River Torrens edge



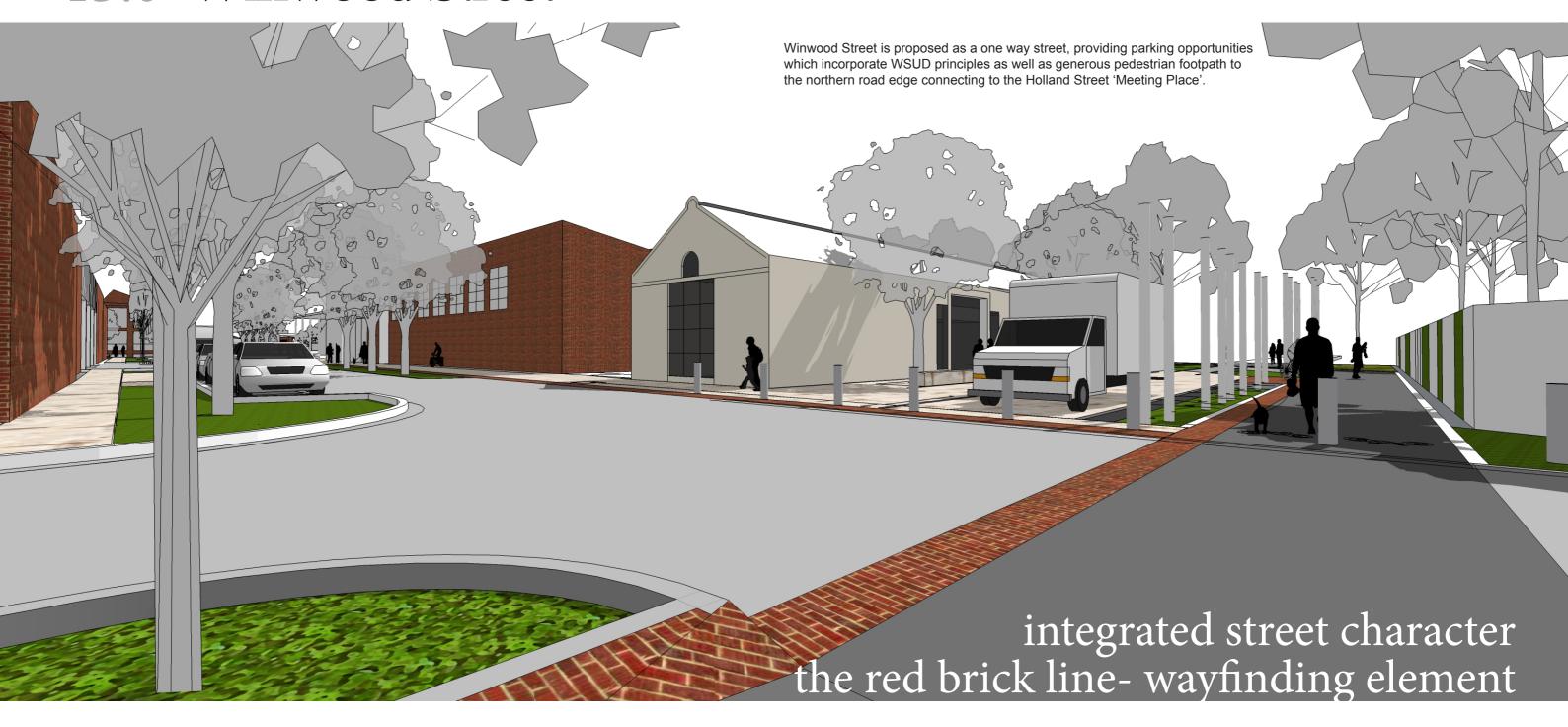
Community Interaction & Engagement

- Sculptural posts to reflect industrial past and future community aspirations. (community art opportunity). Nightime uplighting of posts to create visible vertical element at all hours.
- 2. Tramline steel profile with inset LED strip lighting for animation of the space at night
- 3. Urban Gallery edge



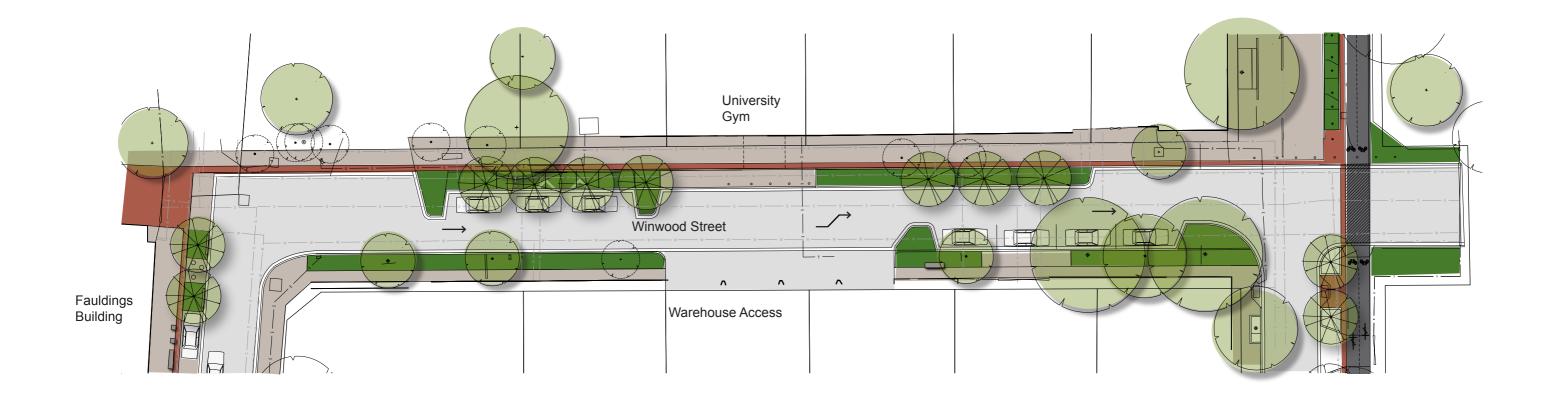


13.0 Winwood Street









WSUD and water capture kerb-less shared use street design improved street amenity









celebration of architectural heritage kerb-less shared use space- pedestrian priority arrival to university precinct



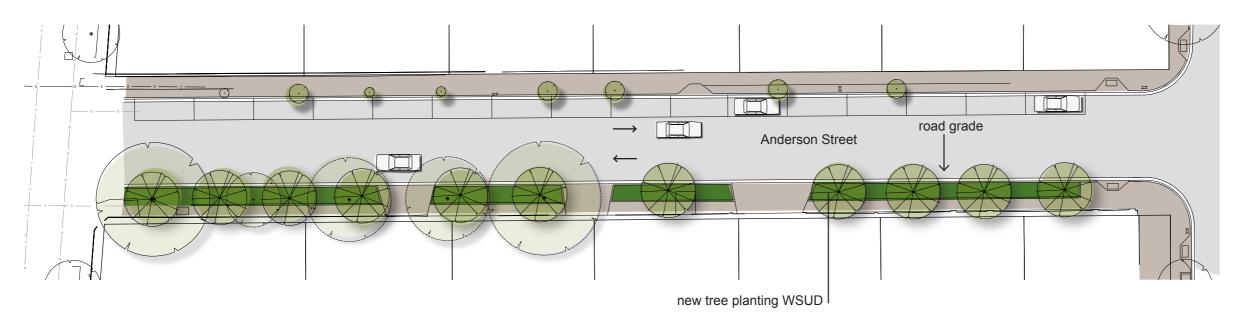








15.0 Anderson Street















Appendices

- A. Summary of Stakeholder Workshop Outcomes B. Street Tree Assessment Report





Appendix A: Summary of Stakeholder Consultation Outcomes

stakeholder workshop 1 (April 2014)

Attending Organisations: City of West Torrens, University of Adelaide, JPE Design Studio. Apologies from Bio Innovation SA and Lion (West End Brewery)

- Explore 2-way and 1-way vehicular options for Holland and Winwood Streets, while considering the long term flexibility/ land use and vehicular movement
- Explore improved connections/ amenity and safety from Holland Street to University Facilities including the Gym and Cafe, via Winwood Street and the car park behind the gym.
- Convert the end of Holland Street (North of the Winwood St intersection) into a shared use zone for community use and WSUD, while maintaining access to the brewery service yard.
- Explore potential for a shared use zone adjacent the Fauldings Building.
- Investigate opportunities with Bike SA
- Confirm vehicular movements to/from brewery carparks (4 shifts daily)
- Undertake further assessment of existing trees with Council's horticulturalist
- Consider existing conditions, including service access to Reid Street, visitor parking requirments along Anderson Street/Stirling Street, and impact of street tree root systems on building infrastructure

bike SA meeting (June 2014)

Attending Organisations: Bike SA, JPE Design Studio

stakeholder workshop 2 (July 2014)

Attending Organisations: City of West Torrens, University of Adelaide, Bio Innovation SA, JPE Design Studio. Apologies from Lion (West End Brewery)

- Ensure that the design maintains strong links/references back to the Master Plan for the broader precinct.
- Review design concept of the
 Meeting Place at Holland Street, with
 consideration to an increase in the area
 of hard (Plaza) space for functions,
 and access to/from the tramway
 bridge. While recognising security
 requirements, explore opportunities
 for better connection (amenity and
 function) between the plaza space
 and the University carpark, to facilitate
 potential use of this car park during
 events, and pedestrian/cycle flow
 between these two spaces. (eg,
 removable/retractable fencing)
- Diversity of seating (including benches with backs/ arms) to be included in the design specification of the precinct generally.
- Review the intersection of Holland/ Winwood Street with consideration to SRV turning paths.
- Ensure tree selection provides summer shade for pedestrians along each streetscape (esp. Holland Street)
- Explore opportunities for lighting and wayfinding throughout the precinct

University of Adelaide meeting (July 2014)

Attending Organisations: University of Adelaide, JPE Design Studio.

- Strong support for the shared use approach within the University Precinct
- Ensure flexibility of road function along Winwood Street and the top end of Stirling Street, in light of future development potential within the north section of the University Campus (ie. car park and building areas north of Winwood Street). Preference for 2 way traffic, with 'shared use' profile.







Appendix B: Street Tree Assessment Report

The following evaluation of street trees within the Thebarton precinct was undertaken by JPE, together with City of West Torrens. The objective of this evaluation was to review the character and condition of existing trees, to inform future streetscape planning.

has enabled strong canopy form

to develop, the canopy balance

of several specimens has been

limited by the proximity of built

Tree planting is absent along

features Queensland Box of

varying character and small

as causing building damage.

much of the western streetscape,

form (walls). No visible damage to

buildings was noted at the time of

Stirling Street

street trees provides a general evaluation of each specific tree, inclusive of species type, arborist assessment.

The following schedule of

comments about its condition and a broad review of its form (character) and health. This report does not constitute an

Holland Street

Queensland Box currently Mediterranean Hackberry (Celtis) have been used as the features as the predominant street tree, applied consistently main street tree, with several along the length of the eastern exceptions at the northern end streetscape until the junction of the street (north of Winwood of Reid and Stirling streets. Street intersection) which features London Plane trees, and at whereby tree species appear to have been planted without the intersection with Anderson an overarching strategy. The street (east) which features existing mature Queensland Box Queensland Box specimens along this eastern streetscape, while planted into Regarding the Queensland Box a narrow verge, are generally (5 specimens), the current health healthy and highly contributory of these trees and the absence of to the street character. While other Queensland Box specimens the absence of overhead power in this streetscape presents a

> with Celtis species. In general, the Celtis Species appears to be an appropriate choice, with the majority of specimens noted to be in good health, despite the poor tree pit design and extent of hard paving.

strong case for the replacement

of these trees on Holland Street

with exception to the streetscape north of Anderson Street, which The canopy structure of the Celtis, with branches that become gradually lighter in structure, size generally. Several mature means that they respond well to Peppercorn specimens are also pruning and can subsequently present along the edge of the return to strong character and University car park, and assist form. For this reason, there is with the screening of this area justification for the retention and adjacent service areas. The of these tree plantings in the root activity of Queensland Box short-medium term, though the trees adjacent the Alaska Towers requirement for pruning under the (local heritage) building is noted power lines along the western edge (3 yearly) needs to be









A brief summary of the landscape (tree) character and key species of each streetscape is provided below.

Tree schedule legend:

✓ Good

Average

X Poor

Anderson Street

The northern side of Anderson Street features consistent planting of young Crepe Myrtle specimens The low mature height of this species is appropriate given the powerlines above, however the shade provision and amenity value of this selection is limited based on their current spacing (10-15m typical) and likely mature

The southern side of the street features a row of Jacaranda specimens which are highly contributory to the street character, due in part to the absence of tree planting along the south-eastern portion of the street. The condition of these trees has been compromised due to extensive pruning over time.

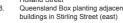
A single large Fraxinus (Ash) tree features at the western extent of the street, offering high landscape value to the streetscape.







- east side of Stirling Street
 Pyrus trees at the SE end of Win-
- Holland Street



Winwood Street

The overall landscape character of Winwood street is inconsistent with no dominant tree species. Rows of Native Frangipani and Pyrus make up the southern streetscape. While the Pyrus appear to be in good condition, the Native Frangipani specimens have been less successful in this street condition

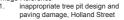
The northern side of the street includes a number of palms, some of which are located in the footpath zone. While seemingly out of place within the streetscape, their selection is likely due to the prevalance of Palm trees within the University campus open space.

A large Corymbia specimen and an adjacent Peppercorn tree feature at the SE corner of the car park, and provide screening value to the building and telephone tower behind.









- Consistent street character created by Celtis species, Holland Street Paving damage, Holland Street Jacarandas on Anderson Street
- 'Green' street character along the
- wood Street. Plane trees at the northern end of





	Species	Cond	lition	Council
Species		health	form	Comments
1	Lophostemon <i>confertus</i> Queensland Box	/ lieatti	✓	Planted in narrow verge width
2	Lophostemon <i>confertus</i> Queensland Box	/	✓	Planted in narrow verge width
3	Lophostemon <i>confertus</i> Queensland Box	/	/	Planted in narrow verge width
4	Lophostemon <i>confertus</i> Queensland Box	/	/	Planted in narrow verge width. Balanced canopy growth not possible due to proximity of building.
5	Lophostemon <i>confertus</i> Queensland Box	/	✓	Planted in narrow verge width
6	Lophostemon <i>confertus</i> Queensland Box	/	_	balanced canopy growth not possible due to proximity of building. narrow verge.
7	Lophostemon <i>confertus</i> Queensland Box	/	_	balanced canopy growth not possible due to proximity of building. narrow verge.
8	Lophostemon <i>confertus</i> Queensland Box	/	_	balanced canopy growth not possible due to proximity of building. narrow verge.
9	Lophostemon <i>confertus</i> Queensland Box	/	_	balanced canopy growth not possible due to proximity of building. narrow verge.
10	Lophostemon <i>confertus</i> Queensland Box	/	_	balanced canopy growth not possible due to proximity of building. narrow verge.
11	Lophostemon <i>confertus</i> Queensland Box	/	_	balanced canopy growth not possible due to proximity of building. narrow verge.
12	Lophostemon <i>confertus</i> Queensland Box	/	✓	Planted in narrow verge. Future powerlines clash
13	Lophostemon <i>confertus</i> Queensland Box	/	_	balanced canopy growth not possible due to proximity of building. narrow verge.
14	Lophostemon <i>confertus</i> Queensland Box	-	×	stunted growth. Obstructed by Peppercorn
15	Lophostemon <i>confertus</i> Queensland Box	-	×	stunted growth. Obstructed by Peppercorn
16	Schinus <i>molle</i> Peppercorn tree	/	✓	Typical species within University car park. Screening value to car park
17	Schinus <i>molle</i> Peppercorn tree	/	✓	Typical species within University car park. Screening value to car park
18	Lophostemon <i>confertus</i> Queensland Box	✓	✓	Narrow verge, paving damage
19	Lophostemon <i>confertus</i> Queensland Box	_	✓	Narrow verge, paving damage. Crown die back.
20	Lophostemon <i>confertus</i> Queensland Box	_	×	Poorly pruned under powerlines. Causing buildin damage
21	Lophostemon <i>confertus</i> Queensland Box		×	Poorly pruned under powerlines.
22	Hynemosporum <i>flavum</i> Native Frangipani		_	Average character. Some crown die-back.
23	Corymbia <i>citriodora</i> Lemon Scented Gum	/	✓	Potential removal flagged by University
24	Callistemon species Bottlebrush		×	Low character.
25	Schinus <i>molle</i> Peppercorn tree		_	Very close to building, but no visible structural damage being caused. Screening value.

Winwood Street					
Species		Condition		Council	
		health	form	Comments	
1	Palm species	/	✓	located in footpath area	
2	Date Palm	/	/		
3	Palm species	/	✓	located in footpath area. Could be relocated.	
4	Palm species	✓	/	located in footpath area. Could be relocated.	
5	Palm species	/	/	located in footpath area. Could be relocated.	
6	Corymbia <i>citriodora</i> Lemon scented gum	/	_	Leaning habit. Pruning of limbs overhanging HV power lines required. Screening value to tower	
7	Schinus <i>molle</i> Peppercorn tree	/	_	screening value to building/ tower. Some pruning required where branches rub/clash with tree 6	
8	Hynemosporum <i>flavum</i> Native Frangipani	/	✓	clash with LV powerlines	
9	Hynemosporum <i>flavum</i> Native Frangipani	/	-	clash with LV powerlines	
10	Hynemosporum <i>flavum</i> Native Frangipani	×	×	unstable root structure/soil at base, strong leaning habit. Suggest removal.	
11	Palm species	/	✓	isolated, limited contribution to street character.	
12	Palm species	/	/	isolated, limited contribution to street character.	
13	Fraxinus excelsior Golden Ash	/	/	Good specimen, but poorly located. Canopy/form not suitable for streetscape	
14	Hynemosporum <i>flavum</i> Native Frangipani	/	/		
15	Pyrus <i>calleryana</i> 'Bradford'	/	/	minor powerline clash	
16	Pyrus <i>calleryana</i> 'Bradford'	/	✓	minor powerline clash	
17	Pyrus <i>calleryana</i> 'Bradford'	/	✓	minor powerline clash	

Anderson Street						
Species		Condition		Council		
		health	form	Comments		
1	Fraxinus species	_	-	High contribution to street character, despite extensive pruning over its lifespan.		
2	Jacaranda mimosifolia	×	-	A strong group of character trees within the streetscape, but are at the end of their lifespan		
3	Jacaranda mimosifolia	×	-	and have been deformed over the years through extensive pruning. Replacement recommended to achieve long term legacy, potentially with same		
4	Jacaranda mimosifolia	×	-	species.		
5	Jacaranda mimosifolia	×	-			
6	Lagerstroemia species Crepe myrtle	/	/	note: 8 specimens total. consistent health/form. low height tree will not clash with powerlines above.		





	land Street			
Species		Cond	dition form	Council Comments
1	Corymbia <i>citriodora</i> Lemon scented gum	✓ /	<u>√</u>	young specimen
2	Eucalpytus species	/	/	Within brewery site. Potential limb shear risk. Some prun ing recommended.
3	Platanus x acerifolia London Plane	/	/	minimum building impact visible. root pruning and barrie to building edge highly recommended
4	Mahogany gum Eucalyptus <i>botryoides</i>	/	/	Within Brewery land. character tree.
5	Platanus x acerifolia London Plane	/	/	root damage to building/path. root pruning and barrier to building edge highly recommended
6	Eucalyptus species	/	_	Within Brewery land. reasonable character
7	Eucalyptus species (Ironbark)	/	✓	Within Brewery land. reasonable character
8	Celtis <i>australis</i> Mediterranean Hackberry	/	/	
9	Celtis <i>australis</i> Mediterranean Hackberry	×	×	poor condition. extensive crown die-back.
10	Celtis <i>australis</i> Mediterranean Hackberry	/	/	root damage to concrete insitu paving
11	Celtis <i>australis</i> Mediterranean Hackberry	/	/	root damage to concrete insitu paving
12	Celtis <i>australis</i> Mediterranean Hackberry	/	/	root damage to concrete insitu paving
13	Celtis <i>australis</i> Mediterranean Hackberry	/	/	root damage to concrete insitu paving
14	Celtis <i>australis</i> Mediterranean Hackberry	/	/	
15	Celtis <i>australis</i> Mediterranean Hackberry	/	/	
16	Celtis <i>australis</i> Mediterranean Hackberry	/	/	
17	Celtis <i>australis</i> Mediterranean Hackberry	/	/	
18	Celtis <i>australis</i> Mediterranean Hackberry	_	/	split branch (truck damage) to be removed
19	Celtis <i>australis</i> Mediterranean Hackberry	/	/	
20	Celtis <i>australis</i> Mediterranean Hackberry	/	✓	
21	Celtis <i>australis</i> Mediterranean Hackberry	_	_	average condition. crown die-back and extensive fruiting due to stress. adjacent large ETSA pit.
22	Celtis <i>australis</i> Mediterranean Hackberry	_	_	average condition. crown die-back and extensive fruiting due to stress.
23	Celtis <i>australis</i> Mediterranean Hackberry	✓	/	
24	Celtis <i>australis</i> Mediterranean Hackberry	_	_	average condition. crown die-back
25	Celtis <i>australis</i> Mediterranean Hackberry	/	✓	
26	Celtis <i>australis</i> Mediterranean Hackberry	/	/	
27	Celtis <i>australis</i> Mediterranean Hackberry		_	extensive die-back in crown, but would likely return to fu health if conditions improved

Holland Street					
	Species		lition form	Council Comments	
28	Celtis <i>australis</i> Mediterranean Hackberry	-	/	some crown die back.	
29	Lophostemon confertus Queensland Box	×	_	Could be replaced with Celtis to reinforce street character	
30	Lophostemon confertus Queensland Box	-	_	Could be replaced with Celtis to reinforce street character	
31	Celtis <i>australis</i> Mediterranean Hackberry	-	_	Could be replaced with Celtis to reinforce street character	
32	Lophostemon confertus Queensland Box	-	-	Could be replaced with Celtis to reinforce street character	
33	Lophostemon confertus Queensland Box	-	-	Could be replaced with Celtis to reinforce street character	
34	Lophostemon confertus Queensland Box	/	-	Could be replaced with Celtis to reinforce street character	
35	Celtis <i>australis</i> Mediterranean Hackberry	/	/		
36	Celtis <i>australis</i> Mediterranean Hackberry	/	/		
37	Celtis <i>australis</i> Mediterranean Hackberry	/	/		
38	Celtis <i>australis</i> Mediterranean Hackberry	/	/	paving impacted by root growth at base	
39	Celtis <i>australis</i> Mediterranean Hackberry	/	/		
40	Celtis <i>australis</i> Mediterranean Hackberry	/	/		
41	Celtis <i>australis</i> Mediterranean Hackberry	/	/		
42	Celtis <i>australis</i> Mediterranean Hackberry	/	/		
43	Celtis <i>australis</i> Mediterranean Hackberry	/	/	paving impacted by root growth at base	
44	Celtis <i>australis</i> Mediterranean Hackberry	/	/		
45	Celtis <i>australis</i> Mediterranean Hackberry	/	/		
46	Celtis <i>australis</i> Mediterranean Hackberry	/	/		
47	Celtis <i>australis</i> Mediterranean Hackberry	/	/	Young specimen, planted to replace Blue Gum.	
48	Eucalyptus <i>leucoxylon</i> South Australian Blue Gum	/	/	High character tree. Very mature, towards mid to end of streetscape life.	
49	Celtis <i>australis</i> Mediterranean Hackberry	/	/	Young specimen, planted to replace Blue Gum.	
50	Callistemon species	/	/	In-consistent with main street tree character (Celtis)	
51	Celtis <i>australis</i> Mediterranean Hackberry	/	/		
52	Celtis <i>australis</i> Mediterranean Hackberry	/	/		
53	Celtis <i>australis</i> Mediterranean Hackberry	/	/		



