

Burswood South Streetscape Improvement Plan MARCH, 2022







Context

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Context

Project Mandate

Place Plan (adopted by Council 2020):

- Action 3.3 Prepare and implement a Streetscape Improvement Plan for Teddington and Burswood Roads.
- Project scope expanded to all streets (2km length same as Archer St. streetscape plan).

OLUME **BURSWOOD** SOUTH PLACE PLAN



Burswood and Teddington Roads have the potential to form a major 'business' high street in the Town, but currently function mostly as a thru-traffic route. The poorquality environment, parking and traffic access issues from side streets, hinders the attraction of investment in the redevelopment of Burswood South and needs addressina.



There is a need to rejuvenate this important streetscape to attract investment in redevelopment and attract more people to Burswood South as customers and residents. The Streetscape Improvement Plan will address undergrounding power, greening and shading, creating people-friendly footpaths and spaces, parking, vehicle access from side streets and people access through to GO Edwards park.

The Plan will create a better identity for Burswood South and a better place for business and people, while managing thru traffic. The Plan will align with the Local Area Traffic Management Plan being prepared for the wider area to address ratrunning and access to Burswood Road.



Prepare and implement a Streetscape Improvement Plan for Teddington and Burswood Roads.











Project Area





Project Objectives

The objectives of the Streetscape Improvement Plan are:

- To rejuvenate and rebrand the image and character of the area as a highly desirable inner-city precinct for living and doing business.
- Provide for an attractive, safe and comfortable public realm, To ensure public investment is proportional to the re-balancing priorities towards pedestrian accessibility and experience over through and circulating vehicles.
- To ensure streets contribute to a more sustainable and resilient urban environment (eg. mitigate heat island, better stormwater management, encourage walking and cycling).
 - economic and social value of the place, within the Town's capacity to fund and an incentive to private investment.



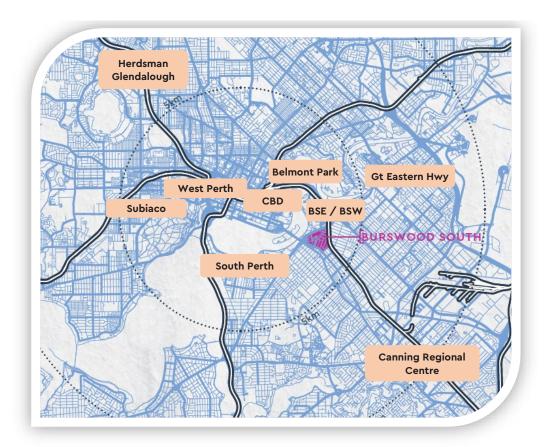


Strategic Context

The Burswood South is located within a competitive ring of existing and proposed inner city commercial areas on the doorstep of the Perth CBD. Burswood South has some advantage given proximity to the Perth airport, access to the regional road network and Welshpool-Kewdale industrial area.

While the key purpose of the streetscape plan is to rectify existing issues, provide a fit-for-purpose public realm and stimulate private investment, the streetscape plan also provides an opportunity for implementation of the Town's strategic goals (expressed through Informing Strategies):

- Urban Forest Strategy contribute to biodiversity and mitigate urban island affect through street trees and native garden beds.
- Environment Plan / Climate Emergency Plan / Stormwater Management Plan address groundwater and surface run off water quality and provide for aquifer recharge through water sensitive urban design (filtration / rain gardens).
- Economic Development Plan attract knowledge-based jobs that add to the diversity of local employment options, attract inward investment and have multiplier effects through the local economy.
- Transport Strategy create a healthy, safe, accessible and liveable place by re-dressing the balance between cars and active transit modes.





Planning Framework



- Current zone "Office/Residential".
- Current floorspace 88,000 sqm 'mixed' business, 50% size of Albany Hwy.
- Current Local Planning Policy 22:
 - heights generally 2-6 storeys
 - 6 sites @ 18 storeys
 - 2 sites @ 12 storeys
 - anticipates 2,300 residents + 3000 jobs
- commercial activation ground floor + building / parking design
- Draft Local Planning Strategy recommends a review of the planning framework (ie. update LPP22) in the medium term (3–4 years)



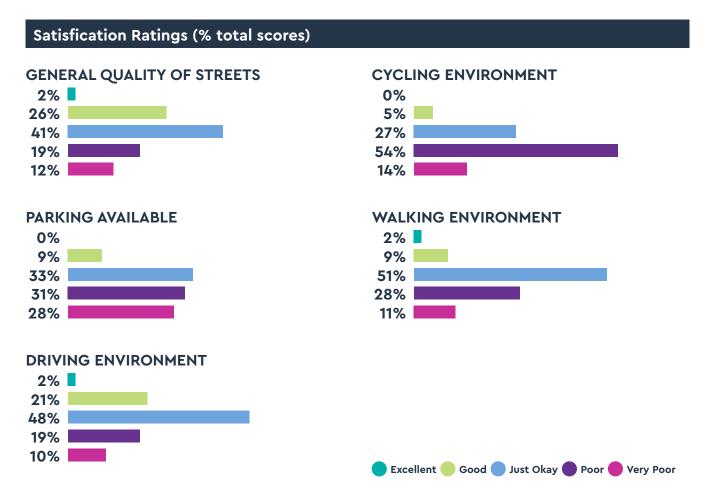
Diagram of full development as per Local Planning Policy 22



CONTEXT

Survey open in March, 2021.

450 flyers distributed to business/workers, landowners and residents + social media. 58 responses received.

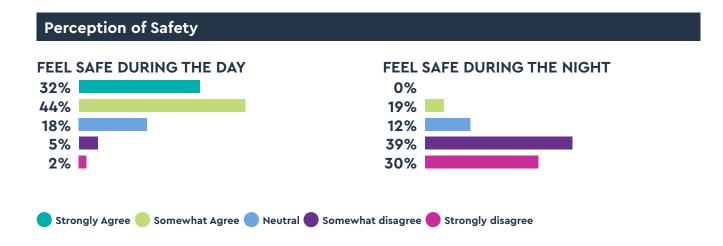


Notes

- high level of dissatisfaction with the quality of streets across the board.
- dissatisfaction with parking is not reflected parking occupancy survey (2017) which found of average occupancy of 22%, 45% in peak times
- dissatisfaction with driving environment reflected in high % of qualitative comments received about recent changes to road network (Craig St) and side street access from residential areas/rat running.
- dissatisfaction with cycling environment was not repeated in qualitative comments.
- dissatisfaction with walking environment reflected in high % of qualitative comments received about ped crossing safety, comfort/ amenity.







Notes

- 69% people feel unsafe at night.
- 24% people are neutral or disagree with feeling safe during the day, and 44% "somewhat agree". Could this be due to poor pedestrianvehicle conflicts, road access issues from side streets?





Issues / Aspirations (open ended) **Street Improvement Priorities** (set options) MORE VIBRANT STREET LIFE **AVERAGE RANK 1-10** SAFER FOOTPATHS & ROAD CROSSINGS TRAFFIC ISSUES, TRAFFIC MANAGED 28% MORE TREES FOR SHADE, SHELTER & SUSTAINABILITY PEDESTRIAN CORSSING, SAFETY & COMFORT **BETTER LIGHTING & SAFETY AT NIGHT LANDSCAPING & GREENING SLOWER TRAFFIC SPEEDS & SAFER DRIVING SPEEDING VEHICLES BETTER MAINTENANCE OF STREETS & CLEANLINESS** PARKING AVAILABILITY **UNDERGROUND POWER LINES** PARKING IMPACT ON SIGHTLINES IMPROVED AVAILABILITY OF PARKING APPEAL OF BUILDINGS MORE SPACE FOR BUSINESSES TO SPILL OUT ONTO FOOTPATHS LINKS TO GO EDWARDS **SAFER & MORE CONVENIENT FOR CYCLING** POOR MAINTENANCE, CLEANLINESS **MORE PLACES TO STOP & REST IMPROVE SAFETY AT NIGHT** HIGHEST PRIORITY LOWEST PRIORITY



I think Burswood South would be a better place if the streets...

- ... "had distinctive streetscape that included parklets with seats, shade, sculptures, bins etc, it could become an interesting boulevard for urban art."
- ... "were safer, better night lighting on Hawthorne Place."
- ... "had less traffic and more control over speeding vehicles, more parking"
- ... "had underground power. verges kept mowed and clean."
- ... "had a few cafes, and retail options, without having to go to Albany Highway or Crown, more friendly and vibrant, with more cafes and shopfronts."

- ... "were well lit up and had more activity occurring in day and night, connected to the park properly."
- ... "were treated to a higher standard with new underground power and lighting, new footpath and road pavements and street trees in the footpath area for shade and also in the middle of the roads to create an avenue effect."
- ... "were seen as an extension of Albany Hwy, rather than a passage between it and Great Eastern Hwy."

(Sample of responses)



What other street improvement are needed...

- ... "its really difficult for my kids to cross Burswood Rd with their grandparents to go to park. Burswood Rd also has a lot of blind corners due to all the parked cars. Would love more vibrancy in businesses too."
- ... "I regularly access Burswood road from Harvey street. It is a traffic nightmare, there are too many cars travelling along Burswood road, and parking can make access dangerous, and it is usually a significant wait. Many many cars use Rushton street and Harvey street as an access from Shepperton Road to Great Eastern highway, and visa versa."
- ... "need to beautify area with appropriate plants, paving fixtures etc. which increase the visual appeal. Verges in some areas in particular are an eyesore. All of this needs to be maintained regularly."
- ... "put in disabled but NOT on private property this should be a council responsibility!"
- ... "and unsafe. I wouldn't walk there at night. My street is a 10min walk to the train station and we get a lot of break ins and have had our cars stolen. I'd love more safety measures."
- ... "underground power and remove trees and replace with ones which don't make such a mess, it is a nightmare to keep business environment clean."

- ... "we need to see a big tidy up, nice landscaping & some shady trees."
- ... "median island installation along Teddington/Burswood Roads with extensive tree planting on islands to create a canopy of shade along these stretches of roads and provide crossing places for pedestrians (think Subiaco Centro Avenue). Provide a better link to the parkland area and create a reason for people to visit this park (ie cafe on the lake area). Installation of play equipment at the Hawthorne Place end of the park area as car parking is already in place. "
- ... "rezoning of commercial properties to have more cafe, brewery, restaurants. And linked to the park. Possibly pedestrianise some sections."
- ... "general tidy up of some visible buildings."
- ... "as more and more businesses move into the area, we need a lot more temporary parking for our customers/clients as well as long term parking for employees. The development of Burswood Peninsula has some similarities to Docklands Development in Melbourne. My hope is that we create a balance between inviting businesses into the area whilst keeping it attractive for families through parks, and activities."

(Sample of responses)



Site Analysis

Movement

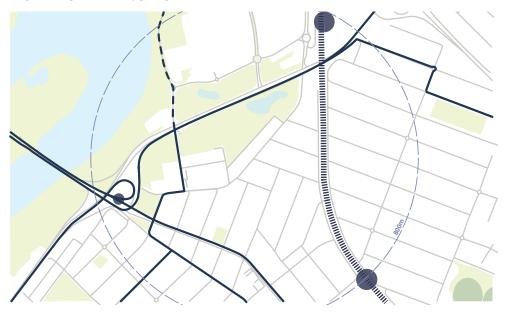


DRIVING



- Burswood Road District Distributor B. Wide vehicle carriageways.
- Functions as through-road given restrictions from Shepperton to Great Eastern Hwy and no-right turn Craig St to GEH.
- Must accommodate larger vehicles servicing businesses.
- Range of on-street parking with varying time limits.
- Council carpark on Hawthorne, under-utilised.

PUBLIC TRANSPORT



- Range of public transport modes within reasonable walking distance.
- Bus routes along Craig and Asquith Streets, Shepperton Road.



Movement



CYCLING



- Proximity to regional cycle network along Great Eastern Highway for access to Burswood Peninsula, Swan River and beyond.
- Burswood Road barrier for adjoining residential cyclists.
- No dedicated on-street bike parking facilities, likely low number end-trip facilities in older buildings.
- Constrained road space for on-road cycling lanes.

WALKING



- Footpaths on every street. No seating, except for cafes.
- Lots of driveway crossovers make footpaths unsafe and nuisance. Fair degree of cracking to edges of paths.
- No priority given to pedestrians other than 1 crossing on Burswood Road. Traffic speed and constant volume creates crossing issues.
- Lack of shade / patchy shade along all streets. Noisy.
- Network of rear laneways provide additional access although unwelcoming.



Night Audit

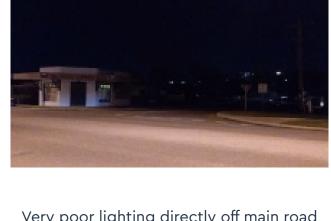


Low lighting levels, concentrated in sections, 4 lights not working



Burswood Rd reasonable, some businesses add to lighting and sense of activity





Very poor lighting directly off main road



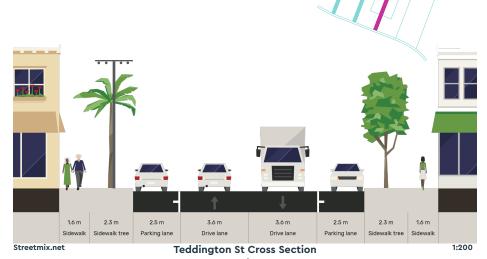


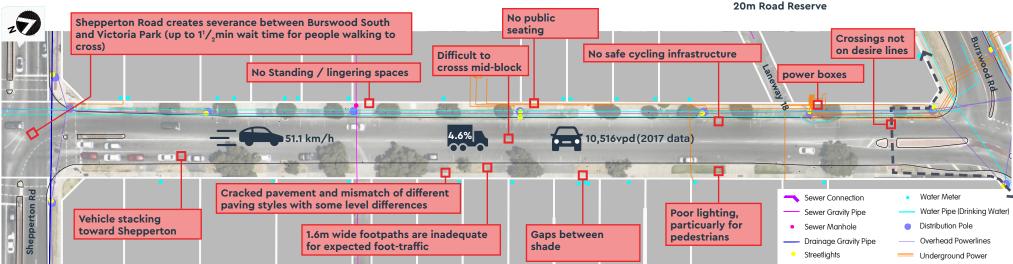




Teddington Road

- No major interruptions to footpaths for
- **Eclectic mix of uses**
- Potential gateway / connection to Albany Hwy to the south-west.
- Separation of pedestrians from moving

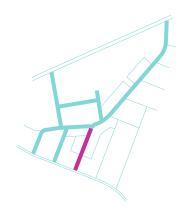


























Burswood Road (East of Teddington A)

No separation for people

to fast moving traffic

Positives

- **Eclectic mix of uses**
- New Mixed-Use building (development investment)
- Existing frontages enclose street, including older buildings - setbacks are

in comfort and without risk

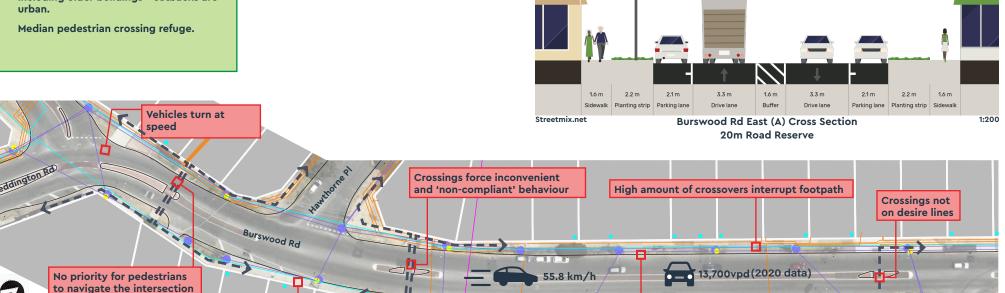
Water Meter

Distribution Pole

Underground Power

Water Pipe (Drinking Water)

Overhead Powerlines



Large expanses of street with

no trees or shade



Sewer Connection

Sewer Manhole

— Drainage Gravity Pipe Streetlights

Sewer Gravity Pipe





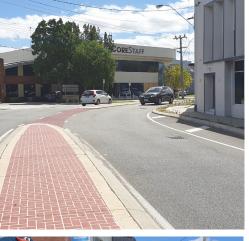






















Burswood Road (East of Teddington B)

Positives

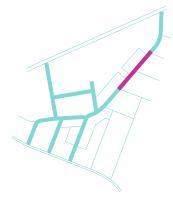
- **Existing connections to Go Edwards Park** through laneways.
- Landmark 'attractors' on corners to side streets (cafe and school).
- Median pedestrian crossing refuge.



20m Road Reserve

Large expanses of street with no trees or shade vast areas uninterrupted Large kerb radii on local side hardscape areas (12.4m) streets encourages speeding 00 13,700vpd (2020 data) 52.3 km/h Burswood Rd School No awnings on zero Speeding in lot line buildings crossing not on desire lines school zone























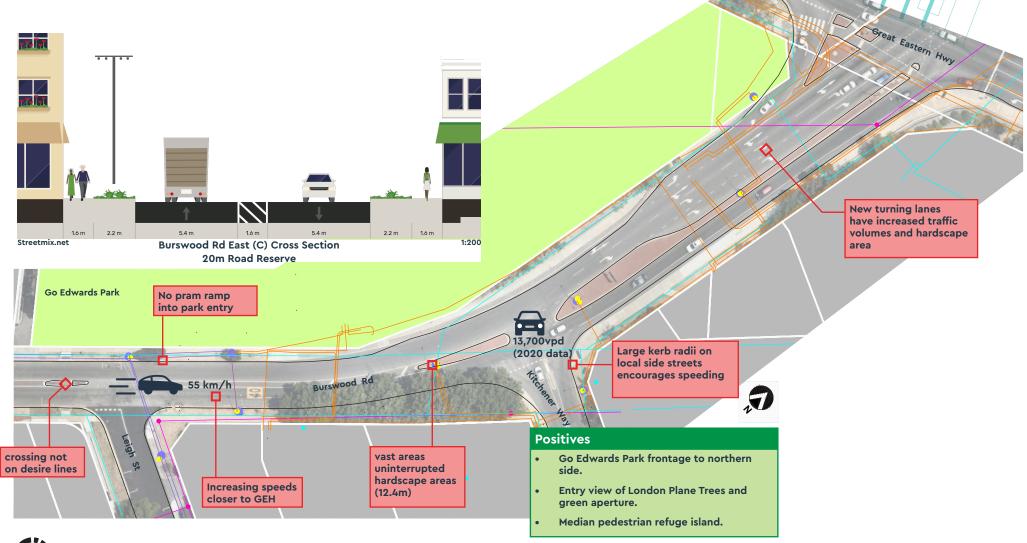






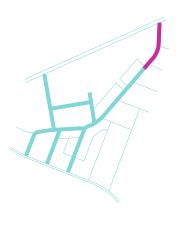


Burswood Road (East of Teddington C)



















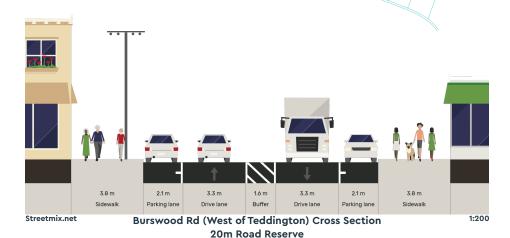




Burswood Road (West of Teddington)

Positives

- Low traffic volumes and noise levels.
- Bus movements only for special events.
- larger landholdings with opportunity for redevelopment.



No pram ramps or clear crossing point

A6.8 km/h

Burswood Rd

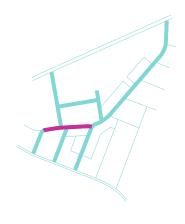
Large expanses of street with no trees / shade

No verge landscaping

















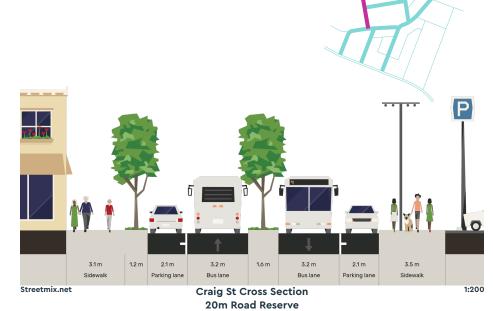


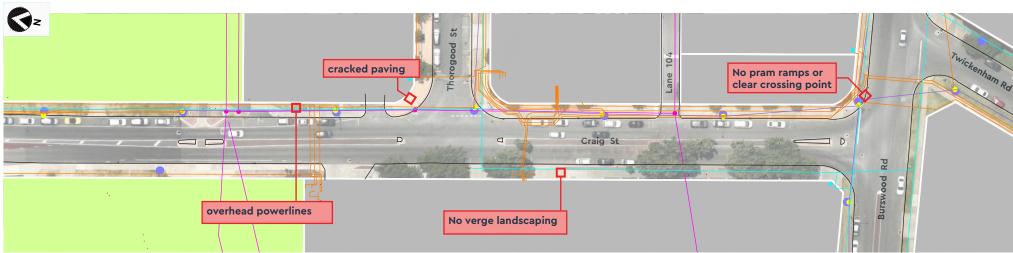




Craig Street

- Good median street tree planting
- Signalised intersection crossing over Great Eastern Highway towards River.
- **Bus Route.**
- **Connections to Principal Shared Path** network.
- Generous foot / shared path on eastern side.

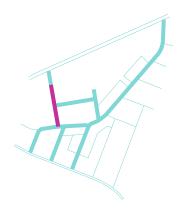




















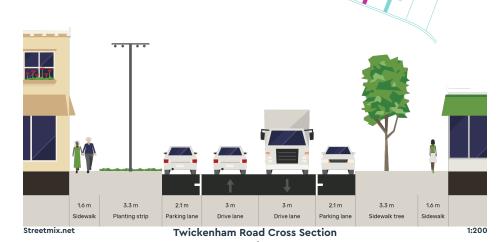






Twickenham Road

- Low traffic volumes and low road noise.
- Generous verges for tree planting.
- Eclectic mix of built form.

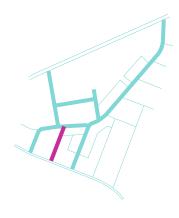














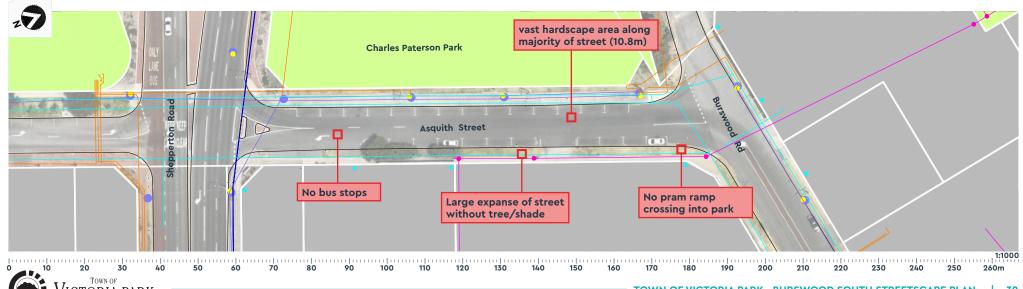




Asquith Street

- Park frontage
- Shared path on park side
- Generous verge for street tree planting
- **Bus route**

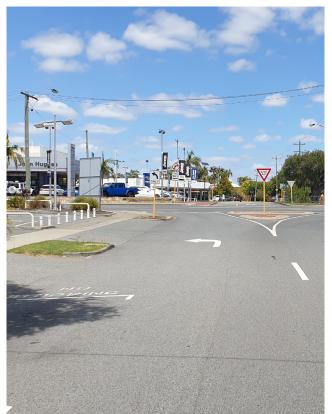
















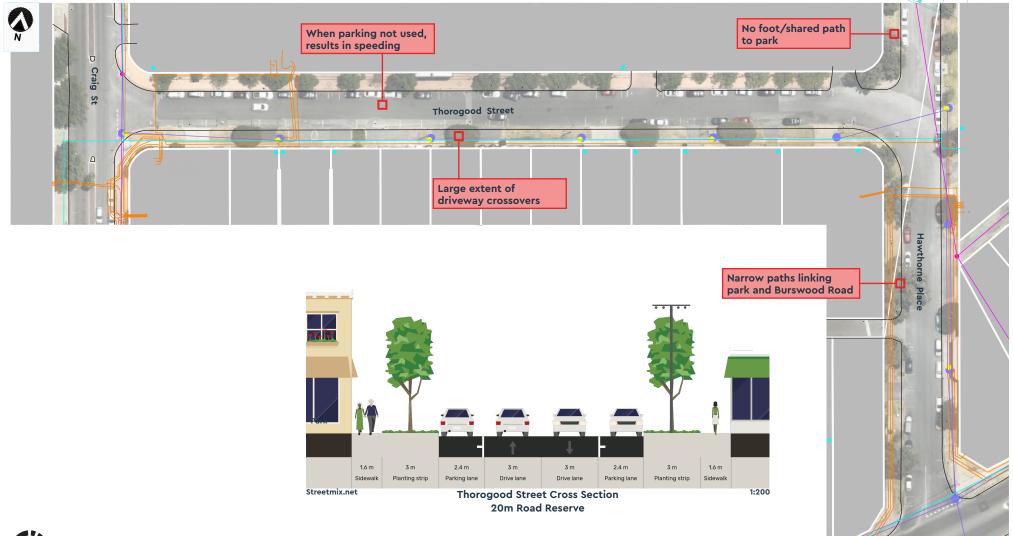




Thorogood and Hawthorne

- Continuous row of good street trees / shade on one side
- Pedestrian scale light and paving on the same side
- Large public car park
- Access to the park.

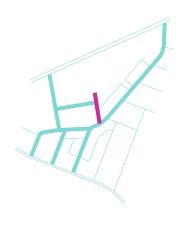




















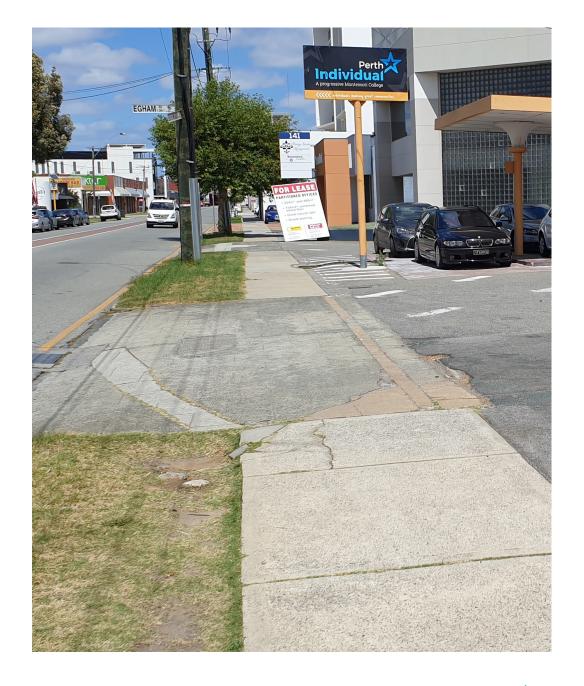






Common / Key Issues

- 1. Lacking greenery and shade
- 2. Poor footpaths and crossings
- 3. Poor cycling opportunities
- 4. Speeding vehicles on Burswood and Teddington Roads
- 5. No identifiable heart or sense of place
- 6. Streetscape quality does not match strategic significance of the place





Issues and Opportunities (Summary)

Movement		Place		
l:	sues	Opportunities	Issues	Opportunities
•	Through traffic (no right-turn from Shepperton to Great Eastern Hwy, and Craig to GEH) causes higher volumes on Burswood-Teddington. High proportion of larger/service vehicles need to accommodate in road carriageway widths and turning. Limited space in road carriageway for dedicated on-road cycle lane.	 Introduce traffic calming on Burswood-Teddington to lower traffic speeds, improve pedestrian crossing safety, lower road noise, improve side street vehicle access. Improve quality and width of footpaths. Extend kerbs at side street intersections to decrease vehicle turning speeds, improve pedestrian priority along main street. Introduce obvious pedestrian crossing points to channel pedestrians and moderate driver behaviour and awareness. Reduce vehicle speed to improve on-street cycling. 	 Space within the existing road reserve to accommodate multiple features eg. wide footpaths, trees in verge, central median. No identifiable central heart. 	 Explore special places or focal points, places to hang-out, public seating for workers and visitors. Increase street trees and shade for better walking environment and sustainability. Improve verges and introduce garden beds for street appeal. Improve lighting / explore underground power. Proximity to CBD and sub-regional significance. Introduce rain gardens for water sensitive urban design (WSUD) especially given proximity.



Opportunities and Constraints



Links to Regional Bike Path



Local Streets - trees and paths



High Street tree-lined boulevard, high quality people environment, reinforce links to Albany Hwy and Burswood Peninsula



Improve access from side streets, create tranquil seating areas etc



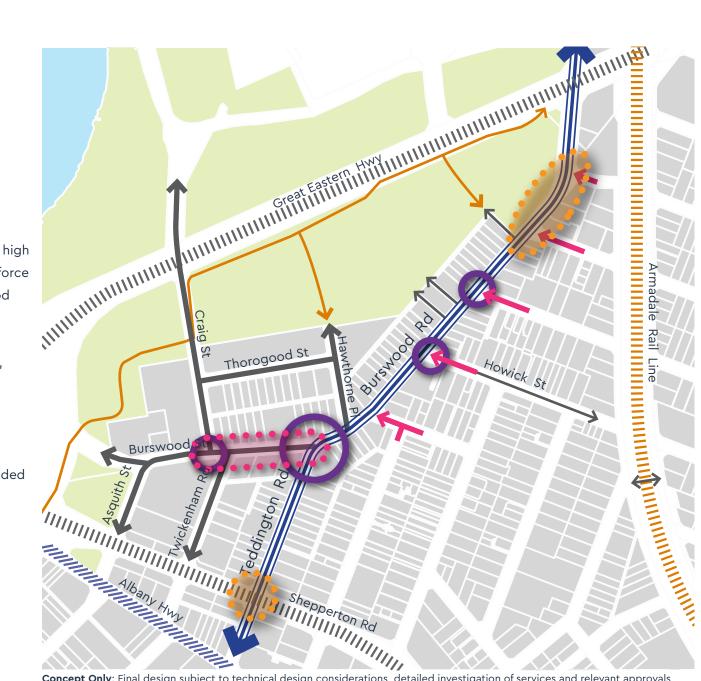
Reinforce gateways



Focal Points / Dwell Places / Shaded Seating

Major Focal Point / Central Hub

Potential Mini Main Street (longer-term)



Concept Only: Final design subject to technical design considerations, detailed investigation of services and relevant approvals



Streetscape Design

Key Moves





Slow Traffic





Safer Footpaths & Crossings



















Movement Types



1. Business High Street (Vibrant Street)



2. Future Mini Main Street (Street for People)



3. Bus Avenue (Local Street - Major)



4. Local Street



5. Shared Lane



6. Walking & Cycling Connections



Place Types



1. Hub



2. Green Gateway



3. Micro Plaza



4. Micro Green



5. Green Break



Place Design Framework

DESIGN

Legend

Movement Types

1. Business High Street (Vibrant Street)

2. Future Mini Main Street (Street for People)

3. Local Street (Bus Avenue)

4. Local Streets



5. Shared Lane



Cycling



New/Improved Cycling

Place Types



1. Hub



2. Green Gateway



3. Micro Plaza



4. Micro Green



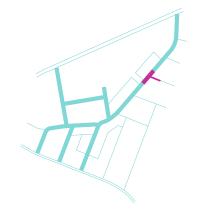
5. Green Break





Business High St & Micro Plaza

Opposite is visualization depicting all Key Moves of the Streetscape Improvement Plan in the one location. It illustrates the vision for Burswood Road (east of Teddington) to be transformed over time into a Business High Street (Vibrant Street), consisting of a 'string of pearls' or distinct people places. In this image, a play and learn Micro Plaza that wraps around the corner of Egham Road adjacent to the existing activity node of Perth Individual School.



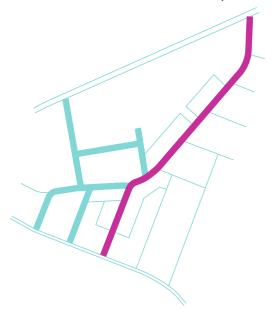






Movement Type 1 Business High Street (Vibrant Street)

Create a highly desirable business address with exposure to passing traffic, with a high amenity and pleasant boulevard of street trees and shaded footpaths.



Streetscape Elements

Location Teddington Rd and Burswood Rd (East) Total Reserve Width 20m Design Speed 40km/hr Travel Lanes Asphalt Parking Parallel both sides flush with verge/footpath Median Canopy trees shrubs flush kerb existing driveway access Landscape Strip Canopy trees shrubs existing driveway crossovers retention of paperbarks eastern side of Teddington Rd. Investigate retention and additional canopy tree planting on western side WSUD Options Rain gardens and permeable paving Paths 2.5m shared path both sides Narrower path widths may be required for tree retention on Teddington Rd Street Furniture Pedestrian scale street lights occasional public seating drinking fountains bike racks Other 2 x Mid block crossings	ou coucape Iromento			
Travel Lanes Asphalt Parking Parallel both sides flush with verge/footpath Median Canopy trees shrubs flush kerb existing driveway access Landscape Strip Canopy trees shrubs existing driveway crossovers retention of paperbarks eastern side of Teddington Rd. Investigate retention and additional canopy tree planting on western side WSUD Options Rain gardens and permeable paving Paths 2.5m shared path both sides Narrower path widths may be required for tree retention on Teddington Rd Street Furniture Pedestrian scale street lights occasional public seating drinking fountains bike racks	Location	Teddington Rd and Burswood Rd (East)		
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Parking Parallel both sides flush with verge/footpath Median Canopy trees shrubs flush kerb existing driveway access Landscape Strip Canopy trees shrubs existing driveway crossovers retention of paperbarks eastern side of Teddington Rd. Investigate retention and additional canopy tree planting on western side WSUD Options Rain gardens and permeable paving Paths 2.5m shared path both sides Narrower path widths may be required for tree retention on Teddington Rd Street Furniture Pedestrian scale street lights occasional public seating drinking fountains bike racks	Design Speed	40km/hr		
Median Canopy trees shrubs flush kerb existing driveway access Landscape Strip Canopy trees shrubs existing driveway crossovers retention of paperbarks eastern side of Teddington Rd. Investigate retention and additional canopy tree planting on western side WSUD Options Rain gardens and permeable paving Paths 2.5m shared path both sides Narrower path widths may be required for tree retention on Teddington Rd Street Furniture Pedestrian scale street lights occasional public seating drinking fountains bike racks	Travel Lanes	Asphalt		
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seating drinking fountains bike racks	Paths	widths may be required for tree retention on		
Other 2 x Mid block crossings	Street Furniture			
	Other	2 x Mid block crossings		

Key Moves

Slow Traffic

- 1. Minimise travel lane widths
- 2. On street parking
- 3. Street tree enclosure

Green and Shade the Street

- 4. Underground powerlines
- 5. 3 x rows of canopy trees
- 6. Shrub planting

Safer Footpaths and Crossings

- 7. Widen path by 1m both sides
- 8. Fix uneven surfaces
- 9. Mid block crossings & traffic calming. Widen median

Create Distinct People Places

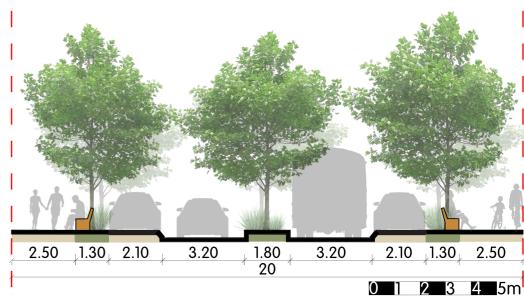
- 10. Urbane Business High Street
- 11. Pause points

Promote Vibrancy and Identity

- 12. Provide a desirable address
- 13. Future additional people spaces - transition away from driveways to rear access
- 14. Continous tree canopy

Strengthen Walking & Cycling Connections

- 15. Shared paths for local movement
- 16. Median refuge for crossing
- ★ Opportunity for occasional parklet to complement adjoining cafe/retail







Movement Type 2 Future Mini Main Street (Street for People)

A longer-term proposal for a slow traffic, low noise shared space suitable for alfresco cafes, to service future residents and workers.



Streetscape Elements

Location	Burswood Rd (West) between Teddington Rd and Burswood Rd (East)		
Total Reserve Width	20m		
Design Speed	40km/hr		
Travel Lanes	Feature treatment		
Parking	Parallel both sides flush kerb		
Median	Remove existing median and widen path space		
Landscape Strip	Canopy trees between existing driveway crossovers with base shrub planting		
WSUD Options	Rain gardens and permeable paving		
Paths	Flexible and generous path space both sides (up to 6.7m)		
Street Furniture	Pedestrian scale street lights generous public seating bike racks drinking fountains		
Other	Public Art potential to introduce horizontal deflections to further slow cars, including 1 way pinch points		

Key Moves

Slow Traffic

- 1. Minimise travel lane widths
- 2. Friction from on street parking
- 3. Street tree enclosure

Green and Shade the Street

- 4. Underground powerlines
- 5. Maximise canopy tree cover
- 6. Shrub planting

Safer Footpaths and Crossings

- 7. Widen path space by 0.8m both sides
- 8. Flush surface for regular universally accessible crossing
- 9. Transition away from driveways to rear access

Create Distinct People Places

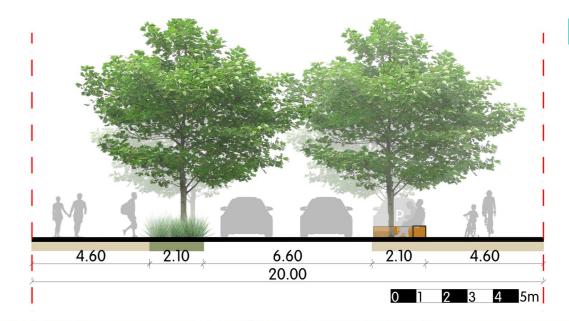
- 10. Urbane Business High Street
- 11. Pause points and parklets
- 12. Future alfresco opportunities (north facing)

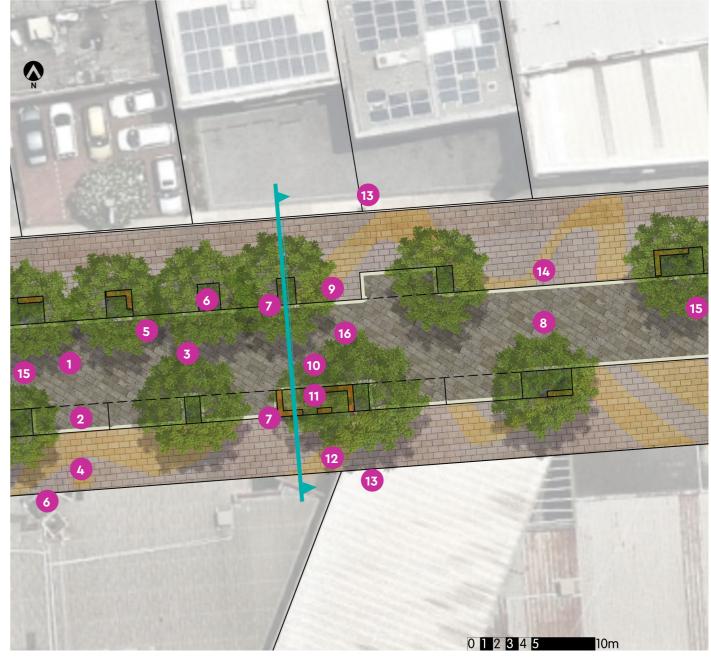
Promote Vibrancy and Identity

- 13. Promote active edges day and night through redevelopment
- 14. Future additional people spaces - transition away from driveways to rear access
- 15. Hub and Green Gateway Place Types at either end to strengthen identity

Strengthen Walking & Cycling Connections

- 16. Space for unobstructed movement
- 17. Safe cycling on street

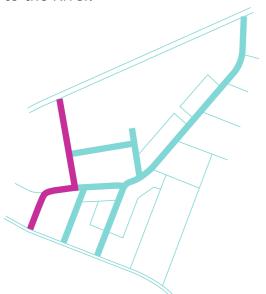






Movement Type 3 Local Street (Bus Avenue)

Extend the current design of Craig Street to Asquith St and west end of Burswood Rd. Create strong green link through street trees to the River.



Streetscape Elements

Location	Craig St, Asquith St, and Burswood Rd (West) between Twickenham St and Asquith St		
Total Reserve Width	20m		
Design Speed	40km/hr		
Travel Lanes	Asphalt		
Parking	Parallel both sides except for bus stops upright kerb		
Median	Canopy trees shrubs flush kerb existing driveway access NA for Asquith St		
Landscape Strip	Canopy trees shrubs at base existing driveway crossovers		
WSUD Options	NA		
Paths	1.5m min footpath one side and 2.5m min shared path other side		
Street Furniture	Pedestrian scale street lights some public seating bus stops at existing locations + nib*		
Other	Asquith St – add trees in between parking bays on the park side (every 2 spaces) + mid block crossing offering improved park access (refer to Business High Street)		

Strengthen Walking & Cycling

11. Shared paths for local movement, particularly river foreshore

Key Moves

Slow Traffic

- 1. Minimise travel lane widths
- 2. Friction from on street parking
- 3. Street tree enclosure

Green and Shade the Street

- 4. Underground powerlines
- 5. Continuous canopy cover (3 rows)
- 6. Shrub planting at base of trees

Safer Footpaths and Crossings

- 7. Tree buffer between traffic and pedestrians
- 8. Additional median trees to protect pedestrians crossing

Create Distinct People Places

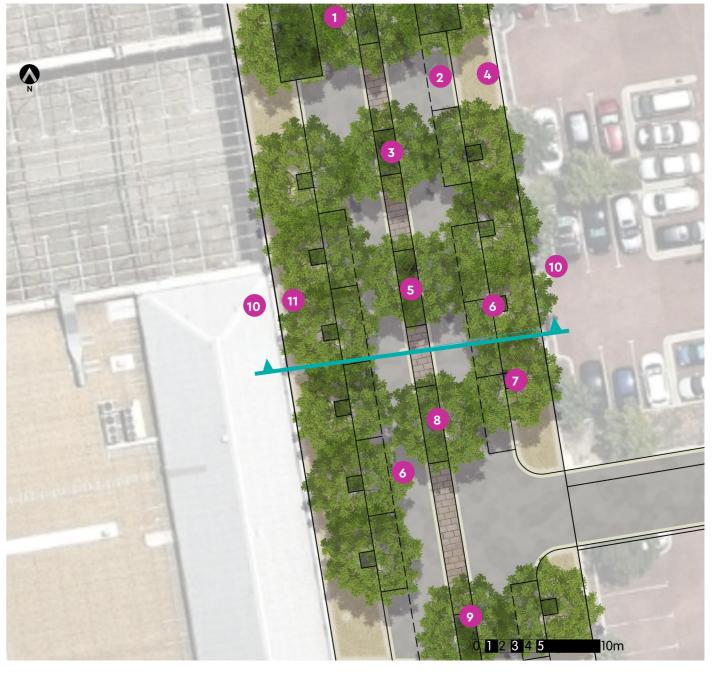
9. Green avenue link between different parts of GO Edwards Park and river forsehore

Promote Vibrancy and Identity

10. Increased amenity to promote redevelopment

Connections

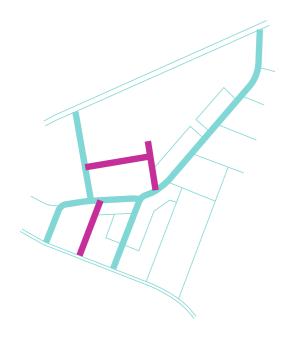






Movement Type 4 Local Streets

Create pleasant and shaded local places for workers, customers and future residents.



Streetscape Elements

Location	Twickenham St, Asquith St, Thorogood St and Hawthorne St (key link to GO Edwards Park)		
Total Reserve Width	20m		
Design Speed	40km/hr		
Travel Lanes	Asphalt		
Parking	Parallel both sides upright kerb		
Median	NA		
Landscape Strip	Canopy trees shrubs existing driveway crossovers		
WSUD Options	NA		
Paths	1.6m footpath both sides 2.5m shared path one side on Hawthorne Pl		
Street Furniture	Pedestrian scale street lights occasional public seating		
Other	1 x Mid block crossings		

Key Moves

Slow Traffic

- 1. Retain existing travel lane widths
- 2. Retain friction from on street parking
- 3. Street tree enclosure

Green and Shade the Street

- 4. Underground powerlines
- 5. Maximise canopy cover
- 6. Shrub planting in existing verges
- 7. Mid block greening

Safer Footpaths and Crossings

- 8. Mid block crossings
- 9. Fix uneven surfaces

Create Distinct People Places

- 10. Low key, people-friendly local street
- 11. Pause points

Promote Vibrancy and Identity

12. Enhance identity through greenery

Strengthen Walking & Cycling Connections

- 13. Shared paths for local movement
- 14. Median refuge for crossing

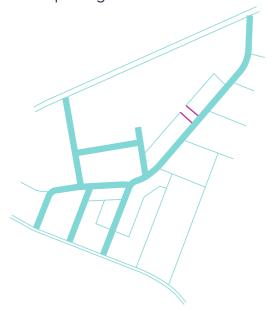






Movement Type 5 Shared Laneway

Create safe and well lit links to GO Edwards Park, encouraging adjacent buildings to activate the laneway through side openings.



Streetscape Elements

Location	Lane 59 and 59a			
Total Reserve Width	5m			
Design Speed	10km/hr			
Travel Lanes	Feature treatment flush kerb			
Parking	NA			
Median	NA			
Landscape Strip	Staggered planter boxes			
WSUD Options	NA			
Paths	Shared pedestrian, cyclists and vehicle movement			
Street Furniture	Suspended feature lighting			
Other				

Key Moves

Slow Traffic

- 1. Horizontal deflections
- 2. Yielding to oncoming traffic
- 3. Minimise travel lane (3m)

Green and Shade the Street

- 4. Shrubs in planter boxes
- 5. Abutting built form for shade

Safer Footpaths and Crossings

- 6. Slow traffic
- 7. Maintain sight lines above greenery

Create Distinct People Places

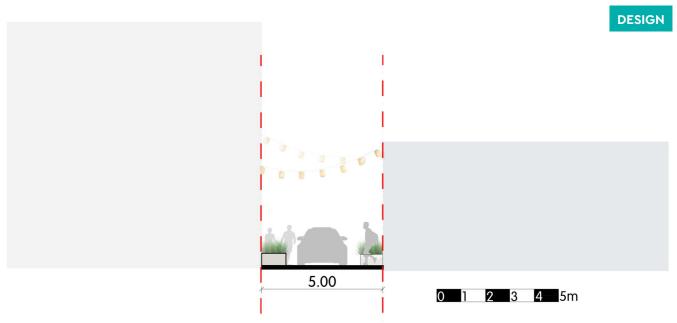
8. Urbane people friendly lane day and night

Promote Vibrancy and Identity

- 9. Greenery and feature lighting
- 10. Mural artworks on adjoining walls

Strengthen Walking & Cycling Connections

- 11. Pedestrian and cyclist connection between park, Business High Street, school and housing to east
- ★ Place-making opportunity kids space, mural etc.

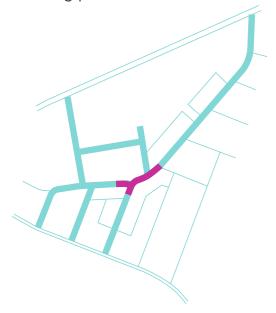






Place Type 1 Hub

Create a distinctive and unifying heart for Burswood South with additional space for people, slower traffic and safer pedestrian crossing points.



Streetscape Elements

Location	Cnr Burswood Rd and Teddington Rd		
Total Reserve Width	20-25m		
Design Speed	20km/hr		
Intersection Treatment	Raised flush intersection all sides		
Travel Lanes	Feature treatment flush kerb		
Parking	Nil		
Median	Nil		
Landscape Strip	Canopy and feature trees shrubs existing driveway crossovers		
WSUD Options	Rain gardens and permeable paving		
Paths	Shared space 2.5m min pedestrian thoroughfare clearance		
Street Furniture	significant public seating bike racks drinking fountains		
Other	Public Art		

Key Moves

Slow Traffic

- 1. Minimise travel lane widths
- 2. Tighten corner radius
- 3. Tighten kerb radii

Green and Shade the Street

- 4. Underground powerlines
- 5. Mass tree planting
- 6. Shrub planting

Safer Footpaths and Crossings

- 7. Channelise pedestrians to cross at safe locations
- 8. Slow traffic to 20km/hr
- 9. Maintain clear sight lines

Create Distinct People Places

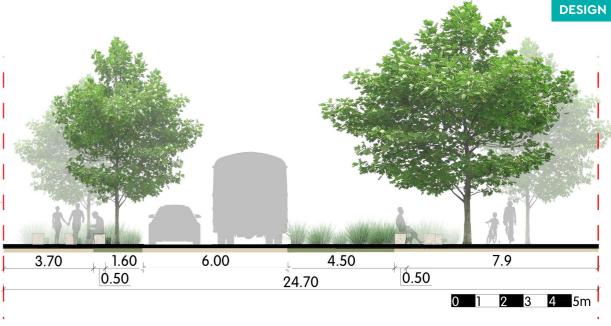
- 10. Highest order people priority
- 11. Pause points | alfresco | socialising | meeting place

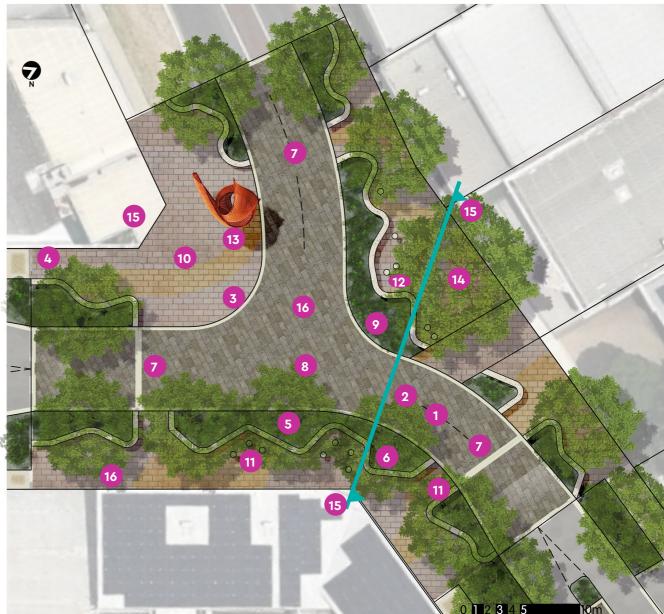
Promote Vibrancy and Identity

- 12. Highly identifiable central Hub
- 13. Public art on key view-line (south-west down Teddington)
- 14. Feature tree on on key view-line (north up Teddington)
- 15. Active edge built form and land use opportunities

Strengthen Walking & Cycling Connections

16. Slow speed / dismount shared cycling environent

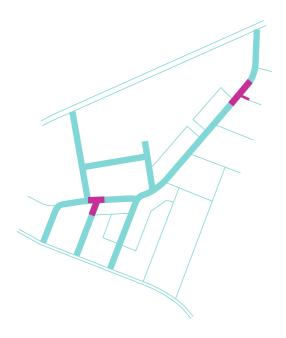






Place Type 2 **Green Gateway**

Create memorable green gateways that extend the amenity from surrounding parklands into the precinct.



Streetscape Elements

Location	Cnr Burswood Rd (East) and Leigh St Cnr Burswood Rd (West), Craig St and Twickenham St		
Total Reserve Width	20m		
Design Speed	30km/hr		
Intersection Treatment	Raised crossing on side street		
Travel Lanes	Asphalt upright kerb		
Parking	Nil		
Median	Nil		
Landscape Strip	Mass canopy tree and shrub planting		
WSUD Options	Rain gardens and permeable paving		
Paths	2.5m shared path both sides of Burswood Rd and one side of Leigh St		
Street Furniture	Pedestrian scale street lights public seating		
Other	Gateway to GO Edwards Park direct pedestrian and cyclist paths		

Key Moves

Slow Traffic

- 1. Minimise travel lane widths and
- 2. Horizontal deflection
- 3. Street tree enclosure

Green and Shade the Street

- 4. Underground powerlines
- 5. Dense canopy tree planting
- 6. Widen landscape strip by 2m+ both sides for mass Shrub planting

Safer Footpaths and Crossings

- 7. Widen path by 1m both sides
- 8. Fix uneven surfaces
- 9. Maintain laneway access

Create Distinct People Places

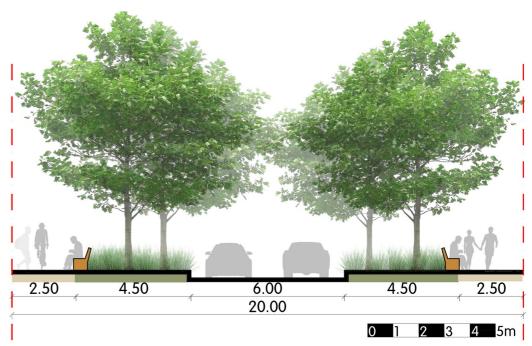
- 10. Memorable Green gateway into precinct
- 11. Pause points

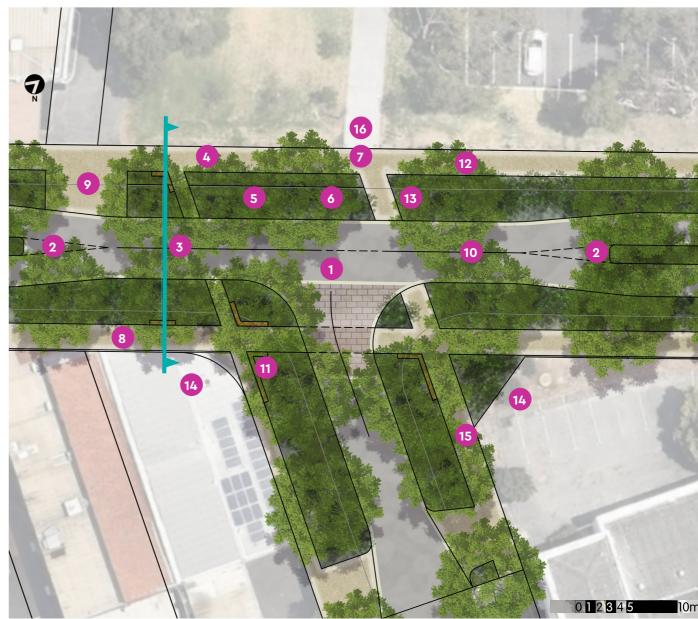
Promote Vibrancy and Identity

- 12. Create feeling of moving through though a park
- 13. Public art / wayfinding to highlight park entry
- 14. Provide a desirable address

Strengthen Walking & Cycling Connections

- 15. Shared paths for local movement
- 16. Key link to park network, river foreshore and City







Place Type 3 Micro Plaza

Create raised platforms along Burswood Road to slow traffic, improve side street vehicle access and create safe pedestrian crossing points.



Streetscape Elements

Location	Cnr Burswood Rd (East) and Howick St Cnr Burswood Rd (East) and Egham Rd		
Total Reserve Width	20m		
Design Speed	30km/hr		
Intersection Treatment	Raised flush surface on both streets		
Travel Lanes	Feature treatment flush kerbs		
Parking	Nil		
Median	Canopy trees shrubs flush kerb Existing driveway access		
Landscape Strip	Canopy trees shrubs Existing driveway crossovers Flexible Micro Plaza adjacent to existing school and cafe. Detailed design in consultation with these user groups		
WSUD Options	Rain gardens and permeable paving		
Paths	2.5m shared path		
Street Furniture	Public seating bike racks pedestrian scale street lights		
Other	Public art		

Key Moves

Slow Traffic

- 1. Minimise travel lane widths and kerb radii
- 2. Vertical deflection
- 3. Street tree enclosure

Green and Shade the Street

- 4. Underground powerlines
- 5. Dense canopy trees
- 6. Shrub planting

Safer Footpaths and Crossings

- 7. Slow vehicles
- 8. Transition away from front driveway access
- 9. Widen median refuge

Create Distinct People Places

10. Linger node around existing active uses

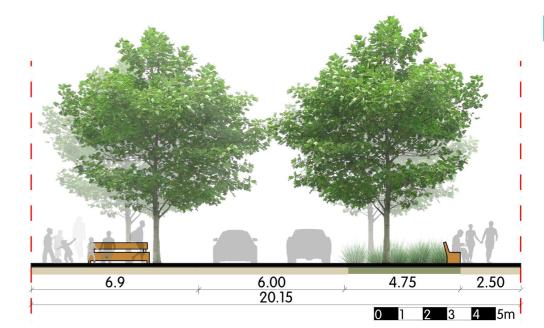
Promote Vibrancy and Identity

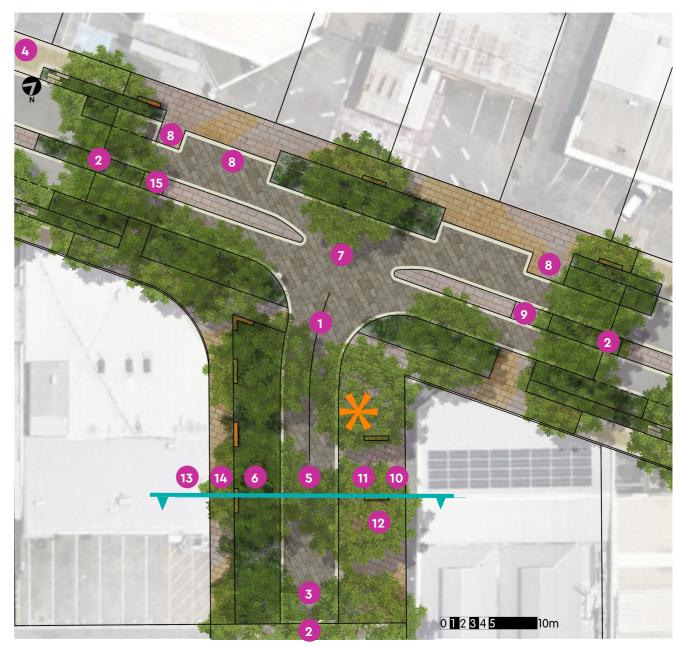
- 11. Intergenerational play and learning space
- 12. Seating for pick-up and drop off
- 13. Mural opportunity

Strengthen Walking & Cycling Connections

- 14. Shared paths for local movement
- 15. Median refuge for crossing

★ Place-making opportunity – kids space, mural etc.

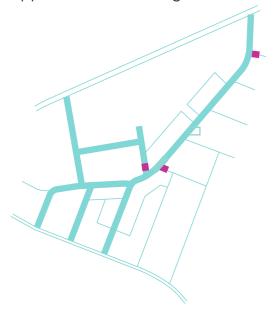






Place Type 4 **Micro Green**

Create tranquil pockets of green relief, with continuous, raised footpath crossings on side streets parallel to Burswood Road, and opportunities for rain gardens.



Streetscape Elements

Location	Cnr Hawthorne and Burswood Rd (East) Cnr Benporath and Burswood Rd (East) Cnr Kitchener Way and Burswood Rd (East)		
Total Reserve Width	20-26m		
Design Speed	30km/hr		
Intersection Treatment	Raised flush path across side street		
Travel Lanes	Asphalt upright kerb		
Parking	Nil		
Median	NA		
Landscape Strip	Canopy trees shrubs existing driveway crossovers		
WSUD Options	Rain gardens and permeable paving		
Paths	2.5m shared path one side of the street		
Street Furniture	Pedestrian scale street lights occasional bench seating bike racks		

Key Moves

Slow Traffic

- 1. Minimise travel lane widths
- 2. Vertical deflection
- 3. Street tree enclosure

Green and Shade the Street

- 4. Underground powerlines
- 5. Dense canopy trees
- 6. Widen landscape strip (by 2-7m) for mass shrub planting

Safer Footpaths and Crossings

- 7. Slow turning vehicles
- 8. Maintain sight lines
- 9. Transition away from driveway

Create Distinct People Places

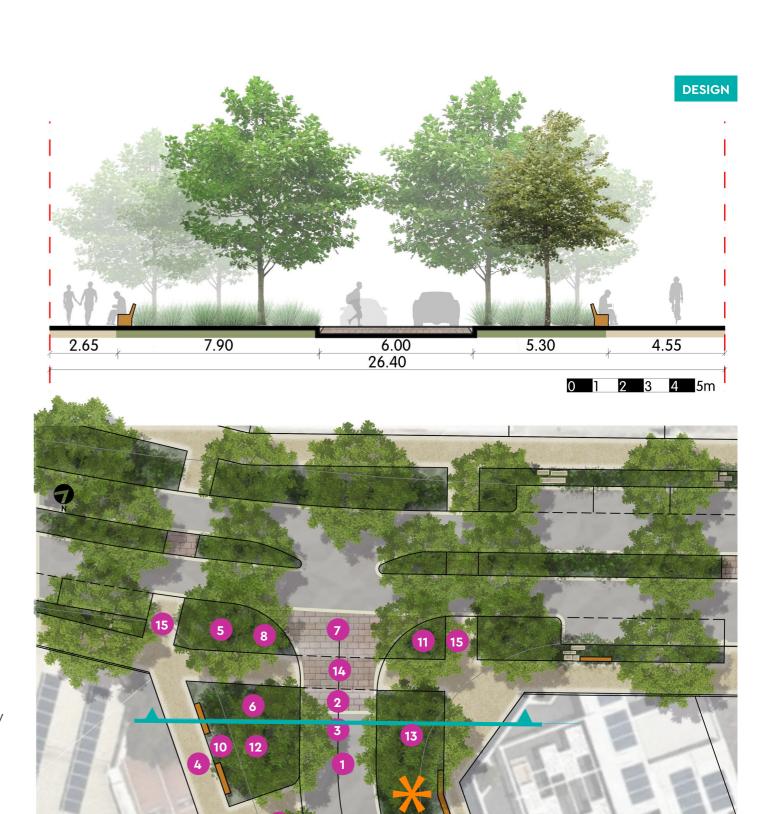
10. Passive pause point

Promote Vibrancy and Identity

- 11. Green relief on Burswood Rd (East)
- 12. Amenity to promote adjacent redevelopment (wider verge)

Strengthen Walking & Cycling Connections

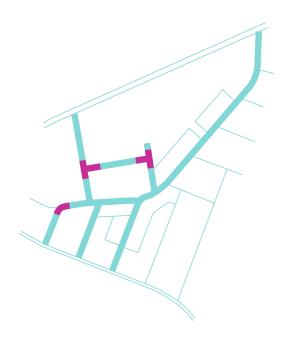
- 13. Shared paths for local movement
- 14. Flush surface crossing
- 15. Crossings on desire lines
- ★ Place-making opportunity





Place Type 5 **Green Break**

Green relief within the local street network, improved pedestrian access and opportunities for rain gardens.



Streetscape Elements

Location	Cnr Asquith St and Burswood Rd (West) Cnr Craig St and Thorogood St Cnr Thorogood St and Hawthorne Pl		
Total Reserve Width	20-26m		
Design Speed	40km/hr		
Intersection Treatment	Kerb extensions		
Travel Lanes	Asphalt upright kerb		
Parking	Nil		
Median	NA		
Landscape Strip	Canopy trees shrubs existing driveway crossovers		
WSUD Options	Rain gardens and permeable paving		
Paths	2.5m shared path one side of the street min		
Street Furniture	Pedestrian scale street lights occasional bench seating		

Key Moves

Slow Traffic

- 1. Minimise travel lane widths
- 2. Street tree enclosure
- 3. Reduce kerb radii

Green the Street

- 4. Underground powerlines
- 5. Widen landscape strip by 2m for shrub planting and breathing space for canopy trees

Safer Footpaths and Crossings

- 6. Slow vehicles
- 7. Maintain sight lines
- 8. Transition away from front driveway access

Create Distinct People Places

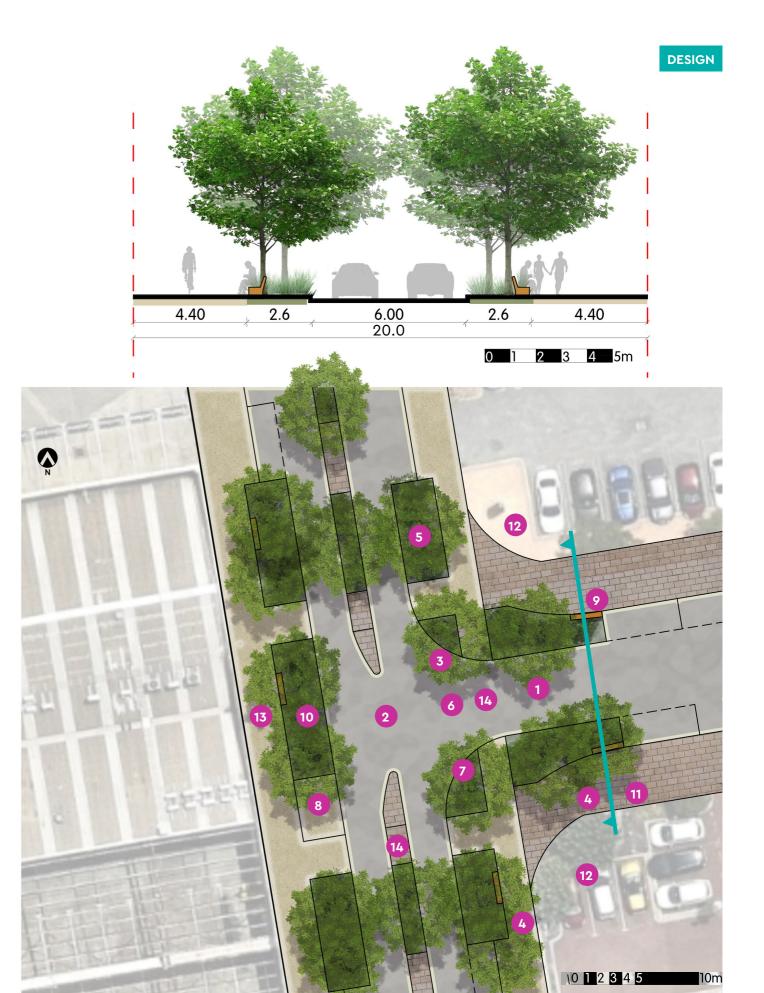
9. Low key local pause points

Promote Vibrancy and Identity

- 10. Green relief within local street
- 11. Mirror existing quality paving and street trees on Thorogood
- 12. Promote redevelopment on important corner sites

Strengthen Walking & Cycling

- 13. Improve key connection to river
- 14. Reduce crossing distance





Design Inspiration - Movement Types (MT)



MEDIANS & TREES - MT1

FLUSH LEVEL PARKING - MT1

CROSSINGS - MT1

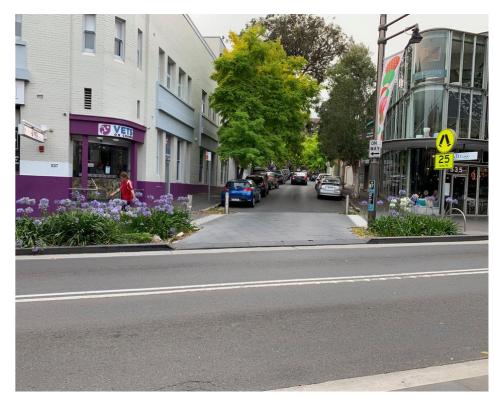














Design Inspiration - Movement Types (MT)

WSUD- MT1









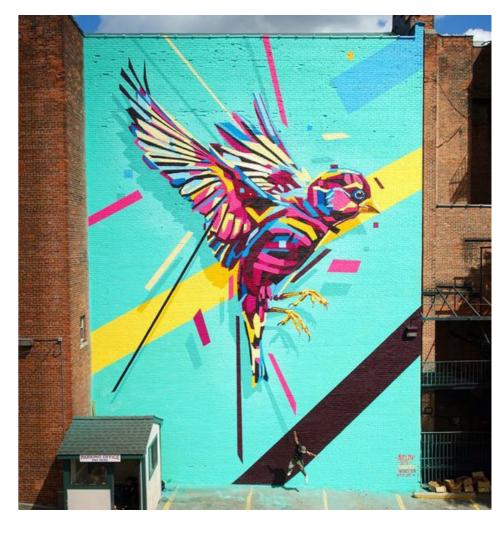
SHARED STREET - MT2







LANEWAY - MT5







Design Inspiration - Place Types (PT)



PLAZA GREENING - PT1

PLAY & ALFRESCO - PT3

GREEN BREAKS - PT5















Implementation

IMPLEMENTATION

Implementation

The Place Design Framework defines street types and place types which provide the strategic basis for the revitalisation of the Burswood South mixed-use precinct. The Place Design Framework recommends an extensive set of interventions across many different parts of the streetscape, which range in size, complexity and cost. The plan does not recommend any specific staging at this point in time, as implementation requires further detailed design and feasibility assessment, understanding the priority and timing for underground power, and consideration of long-term funding strategies.

There is flexibility to deliver the plan as a series of projects over the next 10 years through a combination of:

- Existing programs of the Town eg. street tree planting.
- Planned upgrade of existing assets eg. renewal of footpaths or road surfaces.
- Creation of new assets (eg. rain gardens, pedestrian crossings).

How Businesses, Landowners and Residents Can Assist

Local businesses and resident can also play a role in revitalising the area by upgrading building frontages, replacing poor signage or applying for a Town of Victoria Park Place Grant for improving public spaces outside businesses, for example constructing a parklet (see victoriapark.wa.gov. au/Business/Grow-your-business/Vic-parklets and victoriapark.wa.gov.au/Around-town/Community-development/Vic-Park-Funding-Program/Placegrants).



The following actions are required to implement the Streetscape Improvement Plan following adoption by the Council:

IMPLEMENTATION

		Responsibility	Timeframe	Resources (Estimated)
1	Underground Power Feasibility Continue investigating the feasibility of undergrounding power with Western Power. Present proposed costs and funding options to the Council for consideration.	Infrastructure Operations, Place Planning, Project Management Office	Ongoing	Subject to a future budget request
2	 Funding Strategy / Long Term Financial Plan Prepare a funding strategy to inform: Allocation of funds in the Town's Long-Term Financial Plan, 4 year capital works plan and annual budgets to implement the streetscape plans in stages over a 10-year period. Consideration of contributions from landowners. Assess eligibility for Black Spot funding. Ongoing monitoring of external grant opportunities from State and Federal Government to contribute to funding. Any opportunities to advocate for external funds from State and Federal Governments. Alignment with the draft Transport Strategy (2021) recommendation for creation of a Parking Benefit District that would reinvest parking revenues into place improvements. Present the Funding Strategy to the Council for consideration and adoption prior to commencement of the detailed design phase. 	Place Planning, Finance, Project Management Office	By end 2022	Staff



	Responsibility	Timeframe	Resources (Estimated
Design Development / Detailed Design + Staging Plan Following Council adoption of the Final Streetscape Improvement Plan, progress to Design Development / Detailed Design phase, carrying out further investigations and preparing detailed plans including (but not limited to):	Project Management Office, Place Planning	2022-2023	\$345,000 Subject to budgeting for 2022–2023
Detailed utility services survey.			
• Carry out further transport analysis to assess volumes, gaps and capacity, the re-distribution effect, and whether its desirable to further investigate any other network improvements, and refine concepts.			
 Consider any implications arising from the Town's Drainage Asset Assessment. 			
 Investigate the sensitivity of existing paperbark trees on Teddington Road in relation to underground power tunnelling. 			
 Investigate the ability to plant trees under powerlines ahead of any potential undergrounding power tunnelling. 			
• Engage with PTA regarding future bus routes, lane widths, priority right turn from Asquith to Burswood and bus stop nibs.			
 Investigate the potential for smart street infrastructure. 			
 Investigate the potential for school pickup/drop off on Burswood Rd, east of Egham Road. 			
• Investigate potential for design refinement to maximise Black Spot funding if eligible.			
 Installation of signage to direct cyclists to the regional bike network. 			
Refer detailed design to the Town's Access and Inclusion group for feedback.			
Prepare a Staging Plan for implementation over a 10-year period (or thereabouts) – note that staging will be influenced by multiple factors including (but not limited to):			
 Progressing the feasibility of underground power. 			
 More immediate priorities such as improving pedestrian crossings. 			
 Availability of funds through the Long-Term Financial Plan and other external sources (eg. grants and/ or landowner contributions). 			
• Optimal management of traffic during works to minimise disruption to businesses and residents.			
Apply to Main Roads for a reduction in signage speed on Burswood-Teddington Roads from 50km/hr to 40km/hr at an appropriate stage of design (as per Main Roads advice).			



		Responsibility	Timeframe	Resources (Estimated)
4	Prepare detailed designs for one micro-piazza in the event that State and/or Federal government funding becomes available.	Project Management Office, Infrastructure Operations	2022-2023	\$60,000 Subject to budgeting for 2022-2023
5	Urban Forest - Street Tree Program Prioritise the planting of street trees in secondary streets in the shorter-term - Twickenham, Craig, Burswood (west), Thorogood and Hawthorne Streets. Submit a project proposal form to the Urban Forest Strategy Implementation Working Group for consideration.	Infrastructure Operations	2022-2023	Within existing Urban Forest programs (Leafy Streets).
6	Parking Occupancy Review Consider any recommendations of the regular parking occupancy survey and review being conducted for the Burswood South area.	Parking	2022	Within existing Parking program.
7	Public Art Theme Develop a place-specific public art theme to create a strong and cohesive sense of place and identity through consistency or connection between individual public art pieces. For example, the theme could reflect Aboriginal culture and/or stories associated with the Swan River and surrounds. The theme will guide the delivery of public art under the Streetscape Plan and potentially public art delivered through private redevelopment as per the Town's Local Planning Policy 29 Public Art Private Developer Contribution.	Community (Events Arts and Funding), Place Planning	2022–2023 2023–2024	\$5,000 Subject to future budgets
8	Right of Ways Ensure the transfer of ownership of ROWs from deceased estates to the Town as per the recommendations of the Town's Local Planning Strategy, through the future update of the Rights-of-Way Plan.	Property and Leasing, Place Planning	2024-2025	n/a
9	Business Frontages and Signage Provide information to businesses about the benefits of consolidating signage and improving business frontages to add to the attractiveness of the area.	Place Planning	2022-2023	n/a
10	Place Grants Encourage businesses to apply for Place Grants for parklets and other improvements to public spaces outside their properties that align with the streetscape design concepts.	Place Planning	Ongoing	Within existing Vic Park Community Funding Program.
11	Place Activation Fund and deliver small-scale place activation projects (eg. parklet, temporary landscaping, murals) to improve the place prior to construction of the streetscape plan.	Place Planning	2022-2023 2023-2024	\$25,000 Subject to budgeting for 2022–2023
12	Community Safety Funding Encourage businesses to apply for funding from the Town to implement community safety initiatives such as CCTV.	Place Planning	Ongoing	Within existing Vic Park Community Funding Program.



Appendix

BURSWOOD SOUTH STREETSCAPE PLAN PRELIMINARY COST SCENARIOS 14 July 2021

Introduction and Disclaimer

The following costs represent an Opinion of Probable Costs for high level Preliminary Concepts only. They should be read in conjunction with the design concepts and materials palette.

They provide a guide to potential costs associated with the design and materials for each Place Type. They are for reference only and will vary subject to further detailed investigations and design stages. These costs should NOT be read in lieu of a cost plan or Bill of Quantities prepared by a Quantity Surveyor. All nominated quantities, dimensions, areas, rates, inclusions and costs should be verified by a certified Quantity Surveyor. They are not guaranteed by the Consultant Team.

Summary of Cost Scenarios

		Cost Scenarios	
	Low	Medium	High
Place Type 1 - Central Hub	\$320,000	\$450,000	\$680,000
Place Type 2 - Green Gateway	\$410,000	\$550,000	\$560,000
Place Type 3 - Micro-Plaza (Egham St)	\$430,000	\$580,000	\$840,000
Place Type 3 - Micro-Plaza (Howick St)	\$320,000	\$440,000	\$700,000
Place Type 4 - Micro-Green (Kitchener Av)	\$210,000	\$250,000	\$270,000
Place Type 4 - Micro-Green (Benporath)	\$340,000	\$460,000	\$500,000
Place Type 4 - Micro-Green (Hawthorne)	\$270,000	\$340,000	\$410,000
Business High Street - remainder of Burswood-			
Teddington in between Place Types.	\$2,770,000	\$3,130,000	\$4,730,000
	\$5,070,000	\$6,200,000	\$8,690,000

Please note the following concepts have not been fully costed:

- Bus Avenue / Local Streets (Asquith, Twickenham, Thorogood, Burswood West end)- however, if planted with street trees in verges only as an interim measure, then @\$503 per tree (with watering) cost is around \$50,000 under the existing UFS program budget.
- Green Breaks (Asquith, Thorogood, Hawthorne) estimated between \$25k-\$50k approx. per intersection.
- Mini Main Street considered a long-term proposal.
- Green Gateway Burswood Rd West (cnr Craig/Twickenham)- considered a longer-term proposal.
- Shared Laneways.

Cost Scenario - Assumptions

	Low Specification	Medium Specification	High Specification
Hardscape / Furniture	Ashphalt Feature + Sreetbond rate of \$120/sqm including:	Ashphalt Feature + Sreetbond rate of \$170/sqm including:	\$200/sqm including: • \$150/sqm for Urban Stone Paving
	 av \$90/sqm for Concrete Path \$115/sqm for Feature Ashphalt + Streetbond at raised platform \$20/sqm Furniture allowance. Does not include resurfacing exiting driveways to match footpath. 	 \$135/sqm for Exposed Aggregate Concrete. \$35/sqm Furniture allowance. Raised pedestrian crossing - interlocking trafficable pavers. Area includes Existing Driveways resurfaced to match footpath areas 	 \$50/sqm Furniture allowance. Raised pedestrian crossing - interlocking trafficable pavers. Area includes Driveways Existing, to be resurfaced to match footpath areas (Urban Stone Pavers). On Street Parking areas are to be permeable paving, rate includes sub-base prep. Includes provision for resurfacing all existing asphalt areas within
Soft Landscape / Trees	Garden beds and irrigation, does not include rain gardens. Approx. 1 tree for every 8-10m, 100L.	(exposed aggregate concrete). Rain gardens (WDUD) and irrigation for all Place Types, does not include allowance for rain gardens in all other areas. Structural soils for all Place Types only, to support tree root growth under hardscape areas (road and paving) (calc at 30% of all softscape areas, 1m depth.) Approx. 1 tree for every 8-10m, 200L. One mature tree transplant.	the Precinct. Rain gardens (WDUD) and irrigation for the entire project area. Structural soils for all areas, to support tree root growth under hardscape areas (road and paving) (calc at 30% of all softscape areas, 1m depth.). Option to replace structural soils with Tree Cells to support tree root growth and to ensure the soil volume can remain aerated and prevents soil compaction (has not been costed). Approx. 1 tree for every 8-10m, 200L. Four mature tree transplants.
Artworks	n/a	Three artworks.	Six artworks.
Street lighting	Every 60m, price excludes luminaries.	Same a low cost scenario.	Additional feature Gobo Lighting in Place Types 1 & 3, at 4 units per intersection. Option - Smart poles (Multipoles) are can be substituted for itemised street lighting. Multipoles include provision for CCTV, Wifi, sensors and other smart technologies and cost \$12,000 per unit. Provision of Multipoles for the entire precinct would cost approximately \$570,000.
Demolition	Area includes Landscape Existing and excludes Asphalt Existing, Asphalt Feature and Driveways Existing.	Same a low cost scenario.	Same a low cost scenario.
Earthworks	Area includes Sub-Base Prep for existing verge area and new paved areas including imported fill, compaction, etc. and excludes Asphalt Existing, Asphalt Feature and Driveways Existing.	Same a low cost scenario.	Same a low cost scenario.
Hydraulics	Includes and allowance for strip drains where required, modifications to stormwater inlets.	Same a low cost scenario.	Same a low cost scenario.

Traffic management costs are estimated at 5% of the total cost but costs may vary based on different staging approaches.

PLACE TYPE 1 - HUB (intersection of Teddington-Burswood Roads)

LOW COST SCENARIO (BASE CASE)

Traffic Management

Margin Contingency

Description of Works	Quantity	Unit	Ave Rate	Total
Description of Works	Quantity	Onit	Ave nate	TOTAL
Demolition	822	sqm	40.00	32,882
Earthworks / Sub-base Preparation	822	sqm	25.00	20,551
Hard Landscaping - Street Bond Asphalt + Furniture	641	sqm	135.00	86,476
Road Surface - Asphalt (single colour - red)	495	sqm	50.00	24,768
Soft Landscaping - Garden Bed incl. irrigation	181	sqm	90.00	16,334
Trees - 100L	13	per tree	350.00	4,550
Electrical Services	641	sqm	40.00	25,623
Street Lighting - CW0255 (Std Galvanised - 6.5m)	3	per light	700.00	2,100
Hydraulic Services	641	sqm	75.00	48,042
				260,000
Preliminaries	12%	percentag	е	30,000

5% percentage 4% percentage

5% percentage

MEDIUM COST HIGH COST

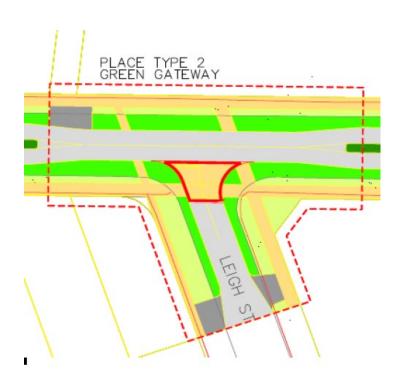
otal	Description of Works	Quantity	Unit	Ave Rate	Total	Description of Works	Quantity	Unit	Ave Rate	Total
otai						Demolition	1317	sqm	40.00	52,696
1	Demolition	82	2 sqm	40.00	32,882	Earthworks / Sub-base Preparation	1317	sqm	25.00	32,935
32,882	Earthworks / Sub-base Preparation	82	2 sqm	25.00	20,551	Hard Landscaping - Urban Stone Paving + High Spec				
20,551	Hard Landscaping - Exposed Aggregate Insitu Conc. +					Furniture	641	sqm	200.00	128,113
86,476	Medium Spec Furniture	64	1 sqm	170.00	108,896	Road Surface - Interlocking Pavers (trafficable)		sqm	140.00	,
,	Road Surface - Asphalt with Street Bond	49	5 sqm	115.00	56,966	Permeable Paving - Parking areas (Incl. sub-base)		sqm	180.00	
24,768	Soft Landscaping - Rain Garden incl. irrigation	18	1 sqm	150.00	27,224	Soft Landscaping - Rain Garden incl. irrigation		sqm	150.00	· · · · · · · · · · · · · · · ·
16,334	Structural Soils (30% of all garden areas - 1m deep)	5	4 m3	120.00	6,534	Structural Soils (30% of all garden areas - 1m deep)	54	m3	120.00	
4,550	Trees - 200L	1	3 per tree	600.00		Trees - 200L		per tree	600.00	· · · · · · · · · · · · · · · · · · ·
25,623	Mature Tree Transplant		1 per tree	10,000.00	10,000	Mature Tree Transplant		per tree	10,000.00	
2,100	Electrical Services		1 sqm	40.00		Electrical Services		sqm	40.00	· · · · · · · · · · · · · · · · · · ·
	Street Lighting - CW0110 (Powder coated - 6.5m)		3 per light	930.00	i	Street Lighting - CW0174 (Powdercoated deco - 6.5m) Feature Lighting - Gobo lighting		per light	1,400.00	
48,042	Artwork Allowance		1 per unit	10,000.00	10,000	Artwork Allowance		per light	25,000.00 10,000.00	,
260,000	Hydraulic Services	64	1 sqm	75.00		Hydraulic Services		per unit sqm	75.00	
30,000	,				360,000	riyuradiic Services	041	sqiii	75.00	540,000
10,000	Preliminaries	129	% percentag	e	40,000	Preliminaries	12%	percentage	<u> </u>	60,000
10,000	Traffic Management	59	% percentag	e	20,000	Traffic Management		percentage		30,000
10,000	Margin	49	% percentag	e	10,000	Margin	4%	percentage	e	20,000
	Contingency	59	% percentag	e	20,000	Contingency	5%	percentage	е	30,000
320,000					450,000					680,000



PLACE TYPE 2 - GREEN GATEWAY (Great Eastern Hwy end / intersection of Leigh St)

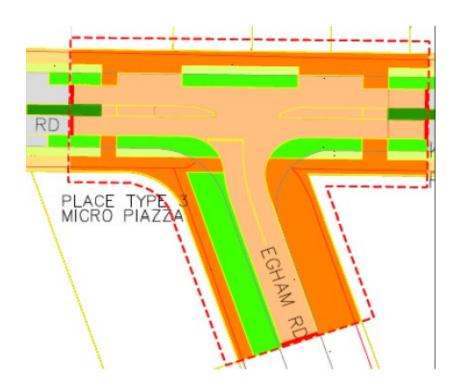
LOW COST MEDIUM HIGH

Description of Works	Quantity Unit	Ave Rate Tot	tal	Description of Works	Quantity Unit	Ave Rate T	otal	Description of Works Demolition	1,184 sqm	40.00	otal F 47,349
				Demolition	1184 sgm	40.00	47,349	Earthworks / Sub-base Preparation	1,184 sqm	25.00	29,593
Demolition	1,096 sgm	40.00	43,842	Earthworks / Sub-base Preparation	1184 sqm	25.00	29,593	Hard Landscaping - Urban Stone Paving + High Spec	500	200.00	
Earthworks / Sub-base Preparation	1,096 sgm	25.00	27,401	Hard Landscaping - Exposed Aggregate Insitu Conc. +				Furniture	500 sqm	200.00	99,941
Hard Landscaping - Concrete Paths + Furniture	500 sam	120.00	59,964	Medium Spec Furniture	500 sqm	170.00	84,949	Road Surface - Interlocking Pavers (trafficable)	71 sqm	140.00	9,970
. •			35,504	Road Surface - Interlocking Pavers (trafficable)	71 sqm	140.00	9,970	Permeable Paving - Parking areas (Incl. sub-base)	0 sqm	180.00	
Road Surface - Asphalt Existing	528 sqm	0.00	-	Soft Landscaping - Rain Garden incl. irrigation	613 sqm	150.00	91,922	Soft Landscaping - Rain Garden incl. irrigation	340 sqm	150.00	50,937
Soft Landscaping - Garden Beds incl. irrigation	613 sqm	90.00	55,153	Structural Soils (30% of all garden areas - 1m deep)	184 m3	120.00	26,473	Structural Soils (30% of all garden areas - 1m deep)	102 m3	120.00	12,225
Trees - 100L	20 per tree	350.00	7,000	Trees - 200L	20 per tree	600.00	12,000	Trees - 200L	20 per tree	600.00	12,000
Electrical Services	1,096 sgm	40.00	43,842	Mature Tree Transplant	0 per tree	10,000.00		Mature Tree Transplant	0 per tree	10,000.00	-
	, ,			Electrical Services	1184 sqm	40.00	47,349	Electrical Services	1,184 sqm	40.00	47,349
Street Lighting - CW0255 (Std Galvanised - 6.5m)	3 per light	700.00	2,100	Street Lighting - CW0110 (Powder coated - 6.5m)	3 per light	930.00	2,790	Street Lighting - CW0174 (Powdercoated deco - 6.5m)	3 per light	1,400.00	4,200
Hydraulic Services	1,096 sqm	75.00	82,204	Artwork Allowance	0 per unit	10,000.00		Artwork Allowance	0 per unit	10,000.00	- \
			320,000	Hydraulic Services	1184 sqm	75.00	88,780	Hydraulic Services	1,184 sqm	75.00	88,780
Preliminaries	12% percentage	e	40,000	,			440,000				400,000
Traffic Management	5% percentage	e	20,000	\ Preliminaries	12% percentage	е	50,000	Preliminaries	12% percentage		50,000
Margin	4% percentage		10,000	Traffic Management	5% percentage	e	20,000	Traffic Management	5% percentage		20,000
•				Margin	4% percentage	e	20,000	Margin	4% percentage		20,000
Contingency	5% percentage	, _	20,000	Contingency	5% percentage	е	20,000	Contingency	5% percentage		20.000
		L	410,000		, ,	Г	550,000				
		·				_					560,00



PLACE TYPE 3 - MICRO-PLAZA (intersection of Egham Street and Burswood Rd)

LOW				MEDIUM				HIGH			
								Description of Works	Quantity Unit	Ave Rate	Total P
				Description of Works	Quantity Unit	Ave Rate T	otal	Demolition	1,700 sqm	40.00	68,014
Description of Works	Quantity Unit	Ave Rate Tot	al	F				Earthworks / Sub-base Preparation	1,700 sqm	25.00	42,509
				Demolition	999 sqm	40.00	39,965	Hard Landscaping - Urban Stone Paving + High Spec			
Demolition	999 sqm	40.00	39,965	Earthworks / Sub-base Preparation	999 sqm	25.00	24,978	Furniture	605 sqm	200.00	120,905
Earthworks / Sub-base Preparation	999 sqm	25.00	24,978	Hard Landscaping - Exposed Aggregate Insitu Conc. +				Road Surface - Interlocking Pavers (trafficable)	701 sqm	140.00	98,172
•				Medium Spec Furniture	605 sqm	170.00	102,770	Permeable Paving - Parking areas (Incl. sub-base)	0 sqm	180.00	- 📮
Hard Landscaping - Street Bond Asphalt + Furniture	605 sqm	135.00	81,611	Road Surface - Asphalt with Street Bond	701 sqm	115.00	80,641	Soft Landscaping - Rain Garden incl. irrigation	395 sqm	150.00	59,190
Road Surface - Asphalt (single colour - red)	701 sqm	50.00	35,061	Soft Landscaping - Rain Garden incl. irrigation	395 sqm	150.00	59,190	Structural Soils (30% of all garden areas - 1m deep)	118 m3	120.00	14,206
Soft Landscaping - Garden Bed incl. irrigation	395 sqm	90.00	35,514	Structural Soils (30% of all garden areas - 1m deep)	118 m3	120.00	17,047	Trees - 200L	20 per tree	600.00	12,000
Trees - 100L	20 per tree	350.00	7,000	Trees - 200L	20 per tree	600.00	12,000	Mature Tree Transplant	2 per tree	10,000.00	20,000
Electrical Services	999 sgm	40.00	39,965	Mature Tree Transplant	0 per tree	10,000.00	-	Electrical Services	999 sqm	40.00	39,965
Street Lighting - CW0255 (Std Galvanised - 6.5m)	3 per light	700.00	2,100	Electrical Services	999 sqm	40.00	39,965	Street Lighting - CW0174 (Powdercoated deco - 6.5m)	3 per light	1,400.00	4,200
,				Street Lighting - CW0110 (Powder coated - 6.5m)	3 per light	930.00	2,790	Feature Lighting - Gobo lighting	4 per light	25,000.00	100,000
Hydraulic Services	999 sqm	75.00	74,934	Artwork Allowance	1 per unit	10,000.00	10,000	Artwork Allowance	2 per unit	10,000.00	20,000
			340,000	Hydraulic Services	999 sqm	75.00	74,934	Hydraulic Services	999 sqm	75.00	74,934
Preliminaries	12% percentag	e	40,000				460,000				670,000
Traffic Management	5% percentag	e	20,000	Preliminaries	12% percentag		60,000	Preliminaries	12% percentag	•	80,000
Margin	4% percentag	e	10,000	Traffic Management	5% percentag		20,000	Traffic Management	5% percentag	•	30,000
Contingency	5% percentag		20,000	Margin	4% percentag		20,000	Margin	4% percentag	•	30,000
Contingency	5% percentag	· _		Contingency	5% percentag	е	20,000	Contingency	5% percentag	,e	30,000
			430,000			L	580,000			L	840,000



PLACE TYPE 3 - MICRO-PLAZA (intersection of Howick Street and Burswood Rd)

LOW MEDIUM

Description of Works	Quantity	Unit	Ave Rate	Total	-1
Demolition	745	sqm	40.00	29,79	4
Earthworks / Sub-base Preparation	745	sqm	25.00	18,62	1
Hard Landscaping - Street Bond Asphalt + Furniture	472	sqm	135.00	63,78	
Road Surface - Asphalt (single colour - red)	560	sqm	50.00	27,99	0
Soft Landscaping - Garden Bed incl. irrigation	272	sqm	90.00	24,51	2
Trees - 100L	15	per tree	350.00	5,25	0
Electrical Services	745	sqm	40.00	29,79	
Street Lighting - CW0255 (Std Galvanised - 6.5m)	3	per light	700.00	2,10	0
Hydraulic Services	745	sqm	75.00	55,86	
				260,00	
Preliminaries	12%	percentage	9	30,00	
Traffic Management	5%	percentage	e	10,00	0
Margin	4%	percentage	9	10,00	0 _
Contingency	5%	percentage	e	10,00	0
				320,00	

MEDIUM				
Description of Works	Quantity	Unit	Ave Rate	Total
Demolition	745	sqm	40.00	29,794
Earthworks / Sub-base Preparation	745	sqm	25.00	18,621
Hard Landscaping - Exposed Aggregate Insitu Conc. +				
Medium Spec Furniture	472	sqm	170.00	80,323
Road Surface - Asphalt with Street Bond	560	sqm	115.00	64,378
Soft Landscaping - Rain Garden incl. irrigation	272	sqm	150.00	40,854
Structural Soils (30% of all garden areas - 1m deep)	82	m3	120.00	11,766
Trees - 200L	15	per tree	600.00	9,000
Mature Tree Transplant	0	per tree	10,000.00	-
Electrical Services	745	sqm	40.00	29,794
Street Lighting - CW0110 (Powder coated - 6.5m)	3	per light	930.00	2,790
Artwork Allowance	1	per unit	10,000.00	10,000
Hydraulic Services	745	sqm	75.00	55,864
				350,000
Preliminaries	12%	percentage	•	40,000
Traffic Management	5%	percentage	•	20,000
Margin	4%	percentage	•	10,000
Contingency	5%	percentage		20,000
				440,000

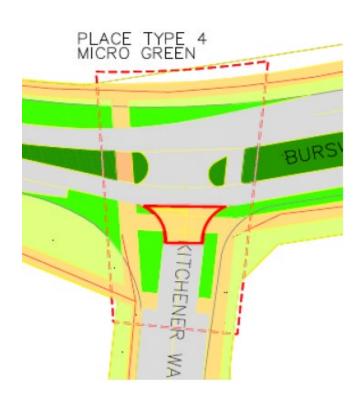
	111011					
	Description of Works	Quantity	Unit	Ave Rate	Total	F
		1,305	sqm	40.00	52,186	
	Earthworks / Sub-base Preparation	1,305	sqm	25.00	32,616	
н	Hard Landscaping - Urban Stone Paving + High Spec					
	Furniture	472	sqm	200.00	94,498	٠
	Road Surface - Interlocking Pavers (trafficable)	560	sqm	140.00	78,373	+
	Permeable Paving - Parking areas (Incl. sub-base)	0	sqm	180.00	-	
	Soft Landscaping - Rain Garden incl. irrigation	272	sqm	150.00	40,854	Ī
	Structural Soils (30% of all garden areas - 1m deep)	82	m3	120.00	9,805	
	Trees - 200L	15	per tree	600.00	9,000	
	Mature Tree Transplant	2	per tree	10,000.00	20,000	
	Electrical Services	745	sqm	40.00	29,794	
	Street Lighting - CW0174 (Powdercoated deco - 6.5m)	3	per light	1,400.00	4,200	
	Feature Lighting - Gobo lighting	4	per light	25,000.00	100,000	_
-	Artwork Allowance	2	per unit	10,000.00	20,000	_
	Hydraulic Services	745	sqm	75.00	55,864	
					550,000	
	Preliminaries	12%	percentage		70,000	
	Traffic Management	5%	percentage		30,000	
	Margin	4%	percentage		20,000	
7	Contingency	5%	percentage		30,000	
J					700,000	



PLACE TYPE 4 - MICRO-GREEN (intersection of Kitchener Street and Burswood Rd)

LOW	MEDIUM				HIGHT
	Description of Works Quantity	Unit	Ave Rate	Total	Description of Works

				Description of Works	Quantity Unit	Ave Rate T	otal	Description of Works	Quantity Unit	Ave Rate T	otal I
				•				Demolition	523 sqm	40.00	20,930
Description of Works	Quantity Unit	Ave Rate Tota	ı	F Demolition	523 sqm	40.00	20,930	Earthworks / Sub-base Preparation	523 sqm	25.00	13,081
				Earthworks / Sub-base Preparation	523 sqm	25.00	13,081	Hard Landscaping - Urban Stone Paving + High Spec			
Demolition	523 sqm	40.00	20,930	Hard Landscaping - Exposed Aggregate Insitu Conc. +				Furniture	216 sqm	200.00	43,224
Earthworks / Sub-base Preparation	523 sqm	25.00	13,081	Medium Spec Furniture	216 sqm	170.00	36,741	Road Surface - Interlocking Pavers (trafficable)	53 sqm	140.00	7,451
Hard Landscaping - Concrete Paths + Furniture	216 sgm	120.00	25,935	Road Surface - Interlocking Pavers (trafficable)	53 sqm	140.00	7,451	Permeable Paving - Parking areas (Incl. sub-base)	0 sqm	180.00	- 1
Road Surface - Raised Concrete Crossing	53 sqm	200.00	10,644	Soft Landscaping - Rain Garden incl. irrigation	254 sqm	150.00	38,087	Soft Landscaping - Rain Garden incl. irrigation	254 sqm	150.00	38,087
Soft Landscaping - Garden Beds (incl. irrigation)	254 sgm	90.00	22,852	Structural Soils (30% of all garden areas - 1m deep)	76 m3	120.00	10,969	Structural Soils (30% of all garden areas - 1m deep)	76 m3	120.00	9,141
				Trees - 200L	15 per tree	600.00	9,000	Trees - 200L	15 per tree	600.00	9,000
Trees - 100L	15 per tree	350.00	5,250	Mature Tree Transplant	0 per tree	10000.00	-	Mature Tree Transplant	0 per tree	10,000.00	-
Electrical Services	523 sqm	40.00	20,930	Electrical Services	523 sqm	40.00	20,930	Electrical Services	523 sqm	40.00	20,930
Street Lighting - CW0255 (Std Galvanised - 6.5m)	3 per light	700.00	2,100	Street Lighting - CW0110 (Powder coated - 6.5m)	3 per light	930.00	2,790	Street Lighting - CW0174 (Powdercoated deco - 6.5m)	3 per light	1,400.00	4,200
Hydraulic Services	523 sqm	75.00	39,244	Artwork Allowance	0 per unit	10000.00	-	Artwork Allowance	0 per unit	10,000.00	-
			160,000	Hydraulic Services	523 sqm	75.00	39,244	Hydraulic Services	523 sqm	75.00	39,244
Preliminaries	12% percentage	e	20,000				200,000				210,000
Traffic Management	5% percentag		10,000	Preliminaries	12% percentage		20,000	Preliminaries	12% percentage	à	30,000
Margin	4% percentag		10,000	Traffic Management	5% percentage		10,000	Traffic Management	5% percentage	à	10,000
_				Margin	4% percentage		10,000	Margin	4% percentage	a	10,000
Contingency	5% percentag		10,000	Contingency	5% percentage		10,000	Contingency	5% percentage	a	10,000
			210,000				250,000				270,000



PLACE TYPE 4 - MICRO-GREEN (intersection of Benporath Street and Burswood Rd)

LOW MEDIUM HIGHT

Description of Works	Quantity	Unit	Ave Rate	Total	Description of World Demolition
Demolition Earthworks / Sub-base Preparation Hard Landscaping - Concrete Paths + Furniture Road Surface - Concrete Raised Crossing Soft Landscaping - Garden Beds (incl. irrigation) Trees - 100L Electrical Services Street Lighting - CW0255 (Std Galvanised - 6.5m) Hydraulic Services	956 394 53 508 17 956 3	sqm sqm sqm sqm sqm per tree sqm per light sqm	40.00 25.00 120.00 200.00 90.00 350.00 40.00 75.00	23,888 47,322 10,599 45,736 5,950 38,221 2,100	Earthworks / Sub-b Hard Landscaping - Medium Spec Furni Road Surface - Inte Soft Landscaping - I Structural Soils (30' Trees - 200L Mature Tree Trans Electrical Services Street Lighting - CV Artwork Allowance
Preliminaries Traffic Management Margin Contingency	5% 4%	percentage percentage percentage percentage	e e	280,000 30,000 10,000 10,000 10,000 340,000	Hydraulic Services Preliminaries Traffic Managemer Margin Contingency

	Description of Works
21	Demolition Earthworks / Sub-base Preparation
38	Hard Landscaping - Exposed Aggregate Insitu Conc. + Medium Spec Furniture
99	Road Surface - Interlocking Pavers (trafficable) Soft Landscaping - Rain Garden incl. irrigation
36 50 21	Structural Soils (30% of all garden areas - 1m depth) Trees - 200L Mature Tree Transplant
00 54	Electrical Services Street Lighting - CW0110 (Powder coated - 6.5m)
)0 00	Artwork Allowance Hydraulic Services
00	Preliminaries Traffic Management
00	Margin Contingency
, ,	

		Description of Works	Quantity	Unit	Ave Rate	Total	F
te	Total	Demolition	1,056	sqm	40.00	42,223	
	Total	Earthworks / Sub-base Preparation	1,056	sqm	25.00	26,390	
40.00	39,703	Hard Landscaping - Urban Stone Paving + High Spec					
25.00	24,815	Furniture	431	sqm	200.00	86,281	٠
		Road Surface - Interlocking Pavers (trafficable)	53	sqm	140.00	7,419	ı
70.00	73,339	Permeable Paving - Parking areas (Incl. sub-base)	63	sqm	180.00	11,340	
40.00	7,419	Soft Landscaping - Rain Garden incl. irrigation	508	sqm	150.00	76,227	
50.00	135,379	Structural Soils (30% of all garden areas - 1m deep)	152	m3	120.00	18,295	7
20.00	38,989	Trees - 200L	17	per tree	600.00	10,200	
00.00	10,200	Mature Tree Transplant	0	per tree	10,000.00	-	
00.00	-	Electrical Services	993	sqm	40.00	39,703	
40.00		Street Lighting - CW0174 (Powdercoated deco - 6.5m)	3	per light	1,400.00	4,200	
30.00	2,790	Artwork Allowance	0	per unit	10,000.00	-	
00.00		Hydraulic Services	993	sqm	75.00	74,444	
75.00				•		400,000	
	450,000	Preliminaries	12%	percentage		50,000	
	50,000	Traffic Management		percentage		20,000	
	20,000	Margin		percentage		20,000	
	20,000	-Cantingency		percentage		20,000	_
		,	370	p =		\$500,0	^
\$	460,000					3300,00	,,

40.00

25.00

170.00

150.00

120.00

600.00

40.00

930.00 10000.00

75.00

10000.00

993 sqm

993 sqm

431 sqm

53 sqm

903 sqm

271 m3

993 sqm

993 sqm

17 per tree

0 per tree

3 per light

0 per unit

12% percentage

5% percentage

4% percentage 5% percentage

00,000



PLACE TYPE 4 - MICRO-GREEN (intersection of Hawthorne and Burswood Rd)

LOW				MEDIUM				HIGH			
5				Description of Works	Quantity Unit	Ave Rate	Total	Description of Works	Quantity Unit	Ave Rate	Total
Description of Works	Quantity Unit	Ave Rate Tot	ai	Demolition	758 sqm	40.00	30,317	Demolition	885 sqm	40.00	35,407
				Earthworks / Sub-base Preparation	758 sqm	25.00	18,948	Earthworks / Sub-base Preparation	885 sqm	25.00	22,129
Demolition	703 sqm	40.00	28,103	Hard Landscaping - Exposed Aggregate Insitu Conc. +				Hard Landscaping - Urban Stone Paving + High Spec			/
Earthworks / Sub-base Preparation	703 sqm	25.00	17,564	Medium Spec Furniture	427 sqm	170.00	72,581	Furniture	427 sqm	200.00	85,389
Hard Landscaping - Concrete Paths + Furniture	322 sqm	120.00	38,693	Road Surface - Interlocking Pavers (trafficable)	67 sqm	140.00	9,436	Road Surface - Interlocking Pavers (trafficable)	67 sqm	140.00	9,436
Road Surface - Concrete Raised Crossing	67 sqm	200.00	13,480	Road Surface - Feature Asphalt (Single Colour)	49 sqm	50.00	2,458	Permeable Paving - Parking areas (Incl. sub-base)	78.1 sqm	180.00	14,058
Road Surface - Asphalt Feature	49 sgm	50.00	2,458	Soft Landscaping - Rain Garden incl. irrigation	264 sqm	150.00		Soft Landscaping - Rain Garden incl. irrigation	264 sqm	150.00	39,536
Soft Landscaping - Garden Beds (incl. irrigation)	264 sgm	90.00	23,721	Structural Soils (30% of all garden areas - 1m deep)	79 m3	120.00		Structural Soils (30% of all garden areas - 1m deep)	79 m3	120.00	11,386
Trees - 100L	15 per tree	350.00	5,250	Trees - 200L	15 per tree	600.00		Trees - 200L	15 per tree	600.00	9,000
Electrical Services	703 sqm	40.00	28,103	Mature Tree Transplant	0 per tree	10000.00		Mature Tree Transplant	0 per tree	10,000.00	-]
				Electrical Services	758 sqm	40.00	,	Electrical Services	807 sqm	40.00	32,283
Street Lighting - CW0255 (Std Galvanised - 6.5m)	3 per light	700.00	2,100	Street Lighting - CW0110 (Powder coated - 6.5m)	3 per light	930.00	,	Street Lighting - CW0174 (Powdercoated deco - 6.5m)	3 per light	1,400.00	4,200
Hydraulic Services	703 sqm	75.00	52,693	Artwork Allowance	0 per unit	10000.00		Artwork Allowance	0 per unit	10,000.00	- 7
			210,000	Hydraulic Services	758 sqm	75.00		Hydraulic Services	807 sqm	75.00	60,531
Preliminaries	12% percentag	e	30,000		420/		280,000				320,000
Traffic Management	5% percentag	e	10,000	Preliminaries	12% percentage		30,000	Preliminaries	12% percentag		40,000
Margin	4% percentag	e	10,000	Traffic Management	5% percentage		10,000	Traffic Management	5% percentag		20,000
Contingency	5% percentag	e	10,000	Margin	4% percentage		10,000 10,000	Margin	4% percentag		10,000
			270,000	Contingency	5% percentage	e	10,000	Contingency	5% percentag	e _	20,000

340,000

410,000



Burswood-Teddington Business High Street - All other sections in between Place Type treatments.

LOW MEDIUM

Description of Works		Quantity	Unit	Ave Rate	Total	1
- 100						H
Demolition		7,505	sqm	40.00	300,191	ļ.
Earthworks / Sub-base Preparation	hworks / Sub-base Preparation				187,619	
Hard Landscaping - Concrete Paths	3,291	sqm	120.00	394,946		
Road Surface - Asphalt Feature (sin	549	sqm	50.00	27,448		
Soft Landscaping - Garden Beds (in	3,665	sqm	90.00	329,814		
Trees - 100L	211	per tree	350.00	73,850		
Electrical Services	7,505	sqm	40.00	300,191		
Street Lighting - CW0255 (Std Galva	Lighting - CW0255 (Std Galvanised - 6.5m)		per light	700.00	18,900	
Hydraulic Services		7,505	sqm	75.00	300,191 187,619 394,946 27,448 329,814 73,850 300,191 18,900	
					2,200,000	
Preliminaries		12%	percentag	ge	260,000	
Traffic Management		5%	percentage		110,000	
Margin		4%	percentag	90,000		
Contingency		5%	percentage		110,000	Π
					2,770,000	

Description of Works	Quantity	Unit	Ave Rate	Total
Demolition	7,466	sqm	40.00	298,647
Earthworks / Sub-base Preparation	7,466	sqm	25.00	186,654
Hard Landscaping - Exposed Aggregate Insitu Conc. +				
Medium Spec Furniture	3,802	sqm	170.00	646,269
Road Surface - Feature Asphalt (Single Colour)	549	sqm	50.00	27,448
Soft Landscaping - Garden Bed incl. irrigation	3,665	sqm	90.00	329,814
Structural Soils (30% of all garden areas - 1m deep)	0	m3	120.00	-
Trees - 200L	211	per tree	600.00	126,600
Mature Tree Transplant	0	per tree	10000.00	-
Electrical Services	7,466	sqm	40.00	298,647
Street Lighting - CW0255 (Std Galvanised - 6.5m)	27	per light	700.00	18,900
Artwork Allowance	0	per unit	10000.00	-
Hydraulic Services	7,466	sqm	75.00	559,963
				2,490,000
Preliminaries	12%	percentage		300,000
Traffic Management	5%	percentag	percentage	
Margin	4%	percentag	percentage	
Contingency	5%	percentag	e	120,000
				3,130,000

HIGH

ALL OTHER AREAS

ALL OTHER AREAS					
Description of Works	Quantity	Unit	Ave Rate	Total	P
Demolition	8,998	sqm	40.00	359,900	
Earthworks / Sub-base Preparation	8,998	sqm	25.00	224,938	
Hard Landscaping - Urban Stone Paving + High Spec					
Furniture	3,802	sqm	200.00	760,317	
Road Surface - Single Colour Asphalt resurface for					
Entire Precinct	8,677	sqm	50.00	433,837	
Permeable Paving - Parking areas (incl. sub-base)	982	sqm	180.00	176,828	
Soft Landscaping - Rain Garden (incl. irrigation)	3,665	sqm	150.00	549,690	
Structural Soils (30% of all garden areas - 1m deep)	1,099	m3	120.00	158,311	
Trees - 200L	211	per tree	600.00	126,600	
Mature Tree Transplant	0	per tree	10,000.00	-	
Electrical Services	8,015	sqm	40.00	320,605	
Street Lighting - CW0174 (Powdercoated deco - 6.5m)	27	per light	1,400.00	37,800	
Artwork Allowance	0	per unit	10,000.00	-	
Hydraulic Services	8,015	sqm	75.00	601,135	
				3,750,000	
Preliminaries	12%	percentage	•	450,000	
Traffic Management	5%	percentage	•	190,000	
Margin	4%	percentage	•	150,000	
Contingency	5%	percentage)	190,000	
				4,730,000]