

1

BACKGROUND

2

CONTEXT & ANALYSIS

3

MASTER PLAN

4

KEY PRECINCTS

5

IMPLEMENTATION

5.1 IMPLEMENTATION OVERVIEW

5.2 POSSIBLE PROJECTS PRECINCT A

5.3 POSSIBLE PROJECTS PRECINCT B

5.4 POSSIBLE PROJECTS PRECINCT C

5.5 POSSIBLE PROJECTS PRECINCT D

5.1 Implementation Overview

In the Master Plan for Long Jetty a number of possible projects have been identified in response to the design principles.

The projects have been summarised for each precinct and the following information has been provided:

PRIORITY

The relative importance of each key proposal. These have been assessed as either low, moderate or high priority based on feedback from stakeholders, and the key principles of the Master Plan.

TIME FRAME

The overall Master Plan is a long term plan intended to be implemented over the next 10-15 years. The time within which proposals should be commenced has been assessed in response to their priority within this 10-15 year time frame.

- Short term: Within 0-2 Years
- Medium Term: Within 5- 10 Years
- Long Term: Within 15 Years

PROBABLE COST

Probable costs for the major components of the Master Plan are provided to assist Council in establishing budgets and exploring sources of funding.

The probable cost to Council have been defined by the following categories:

- High: Greater than \$1 Million
- Moderate: \$250,000 - \$1Million
- Low: Less than \$250,000

For each of the high priority projects, a detailed plan has been prepared to assist Council in the timely implementation of the project.



PRECINCT A



PRECINCT B



PRECINCT C



PRECINCT D

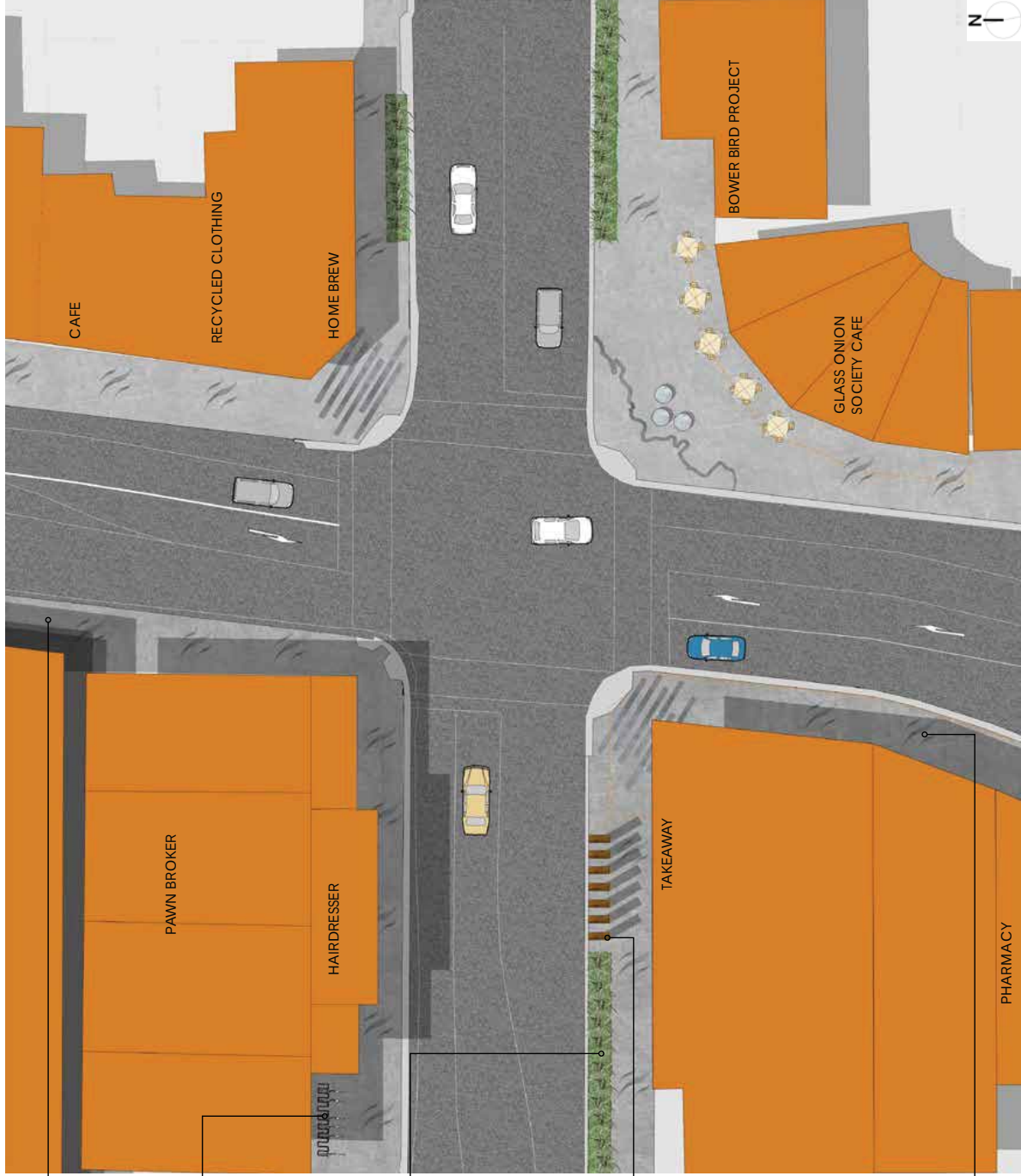
5.2 POSSIBLE PROJECTS | PRECINCT A | MAIN STREET & URBAN CORE

POSSIBLE PROJECTS*	PRIORITY			TIME FRAME			PROBABLE COST			ACTION
	HIGH	MODERATE	LOW	SHORT	MEDIUM	LONG TERM	HIGH	MODERATE	LOW	
1 Main street footpath upgrades (consistent design theme)	H	M	L	S	M	L	H	M	L	Refer to Detail Plan 1A for example
2 Rezone land between Thompson Street and Pacific Street from 2(a) to 3(a)	H	M	L	S	M	L	H	M	L	To be investigated by Council.
3 Widening of footpath in key areas to create alfresco dining areas	H	M	L	S	M	L	H	M	L	To be investigated by Council.
4 Urban planting and landscape improvements along The Entrance Road	H	M	L	S	M	L	H	M	L	To be investigated by Council.
5 Consolidation of car and bus parking on side streets (Toowoyn Bay Road, Pacific Street & Thompson Street)	H	M	L	S	M	L	H	M	L	Refer to Detail 1B for example
6 Provision of urban planting and formalisation of side streets (Toowoyn Bay Road, Pacific Street and Thompson Street)	H	M	L	S	M	L	H	M	L	To be investigated by Council.
7 Potential for privately funded restaurant / Shopping Village along foreshore at Key Iconic Site.	H	M	L	S	M	L	H	M	L	To be investigated by Council.
8 RMS road widening, street trees and underground power lines.	H	M	L	S	M	L	H	M	L	To be investigated by Council.
9 Linkage with Coast-to-Lake Walk.	H	M	L	S	M	L	H	M	L	To be investigated by Council.

FIGURE 18. PROJECT PRIORITISATION | PRECINCT A

*Refer to Figure 11 for possible project locations.
Note: Locations are indicative only.

DETAIL PLAN 1A | PRECINCT A | OPTION FOR MAIN STREET & URBAN CORE



FOOTPATH UPGRADES

Upgrade existing concrete footpath and incorporate shot blasting to assist in way finding.

BICYCLE RACK

Provide pre-fabricated or custom bicycle racks to encourage users of the foreshore to stop along the main street.

URBAN PLANTING

Potential to incorporate mass planting of native grasses in key areas to soften the hard scape and provide a division between pedestrians and vehicles.

SIGNAGE

Proposed recycled timber signage to provide a visual link to Watkins Jetty. Refer to Figure 20.

COMMUNITY ART

Opportunity to include community art in the main street.

SHOT BLASTING

Shot blast concrete pattern abstracted form of sea grass.



Signage from recycled materials



Custom bicycle racks



Shot blast concrete footpath



Custom street furniture

NOTE: This is an option only and subject to investigation.

FIGURE 19. DETAIL 1A - MAIN STREET UPGRADES - The Entrance Road

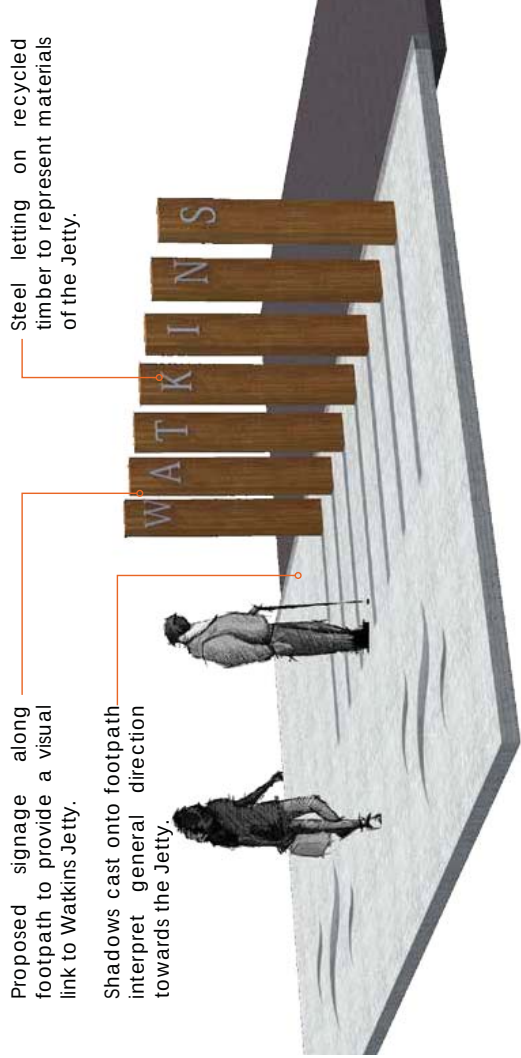


FIGURE 20. EXAMPLE OF SIGNAGE - MAIN STREET

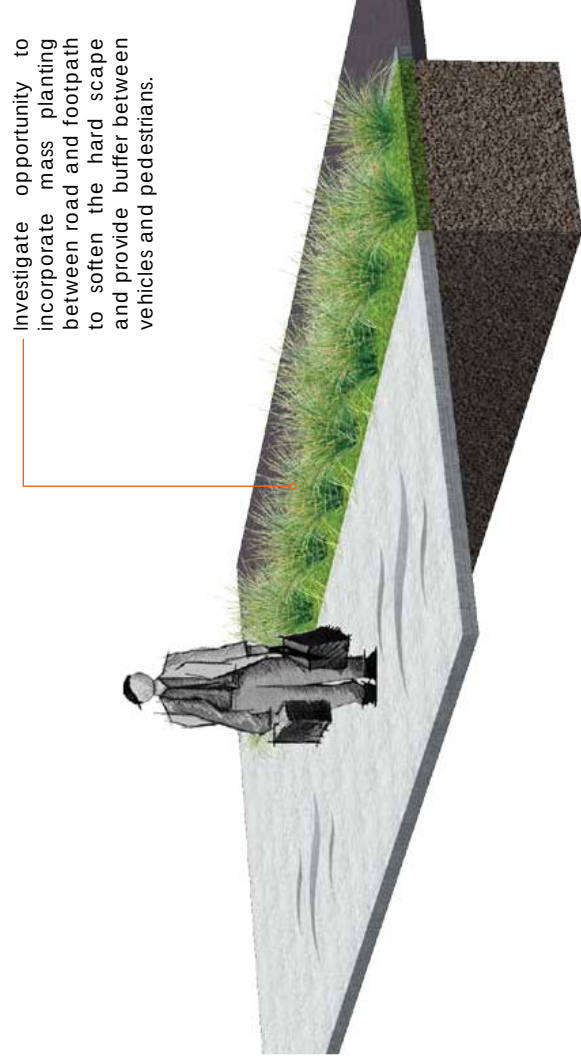


FIGURE 22. TYPICAL DETAIL - MASS PLANTING MAIN STREET

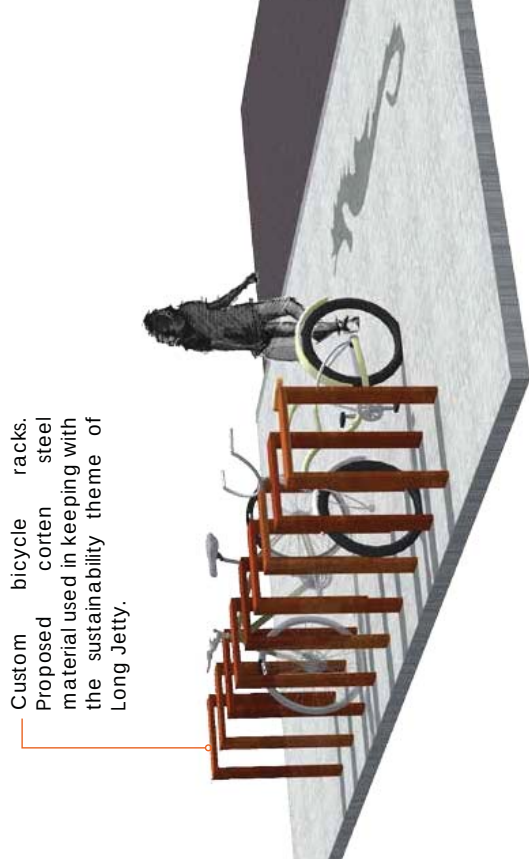


FIGURE 21. EXAMPLE OF CUSTOM BICYCLE RACK - URBAN CORE

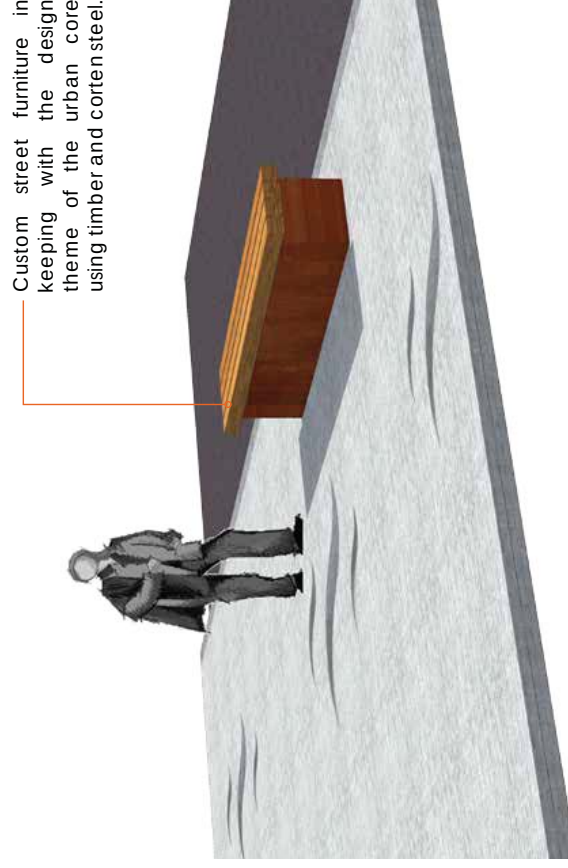


FIGURE 23. EXAMPLE OF CUSTOM STREET FURNITURE - URBAN CORE

DETAIL PLAN 1B.1 | OPTION FOR CONNECTING STREET A



Existing view along Toowoon Bay Road

TOOWOON BAY ROAD

Toowoon Bay Road is a key connection between the lake foreshore and 'Urban Core'. Toowoon Bay Road is wide and slightly sloping with wide nature strips. An existing footpath is located on the southern side of the Road. There is opportunity to provide a central median strip with street tree planting and native grasses to identify Toowoon Bay Road as a key connecting road to the foreshore reserve.

NOTE: This is an option only and subject to investigation.



Example of shrub planting in Central median.



Cupaniopsis anacardioides (Tuckeroo)



FIGURE 24. TYPICAL STREETScape DETAIL - TOOWOON BAY ROAD

- New concrete footpath / Cycleway 2500mm wide along the northern side of road.
- Native grass planting at base of street trees to assist in storm water infiltration.
- Provide new angled line markings and wheel stops along Toowoon Bay Road to improve the legibility of car parking space.
- Provide pedestrian crossing.
- Provide a central planted median strip with an under storey of native grasses to identify Toowoon Bay Road as a main connecting street to the foreshore reserve.
- Street tree planting and rain gardens to be incorporated every 6 car spaces to provide shade and assist in storm water infiltration.
- Shot blast pattern in concrete footpath between The Entrance Road & Foreshore Reserve. To future detail.
- Proposed street tree planting between footpath and kerb.
- Existing 1200mm concrete footpath to be made good. Proposed shot blast pattern to be incorporated into existing concrete to future detail.

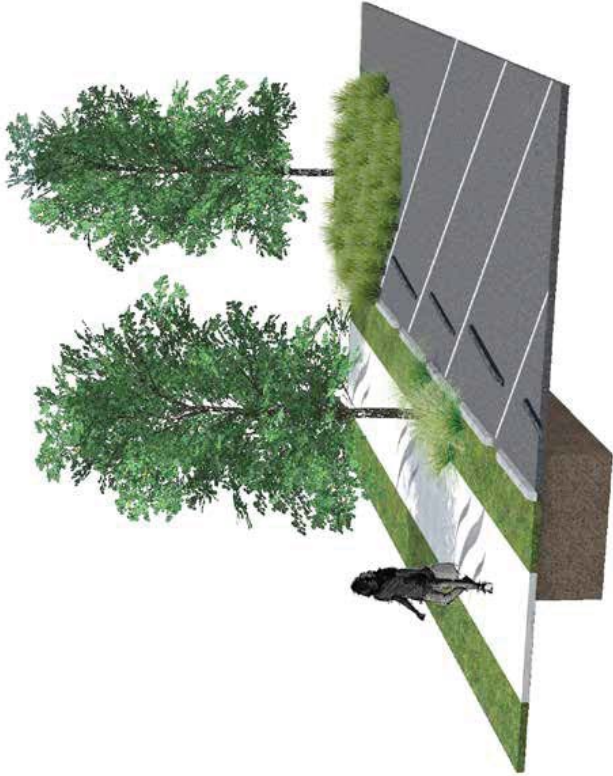


FIGURE 25. TYPICAL STREET TREE PLANTING - TOOWOON BAY ROAD

DETAIL PLAN 1B.2 | OPTION FOR CONNECTING STREET B



Existing view along Thompson Street

THOMPSON STREET

Thompson Street between The Entrance Road and Tuggerah Parade.

Proposed upgrades include:

- Upgrade existing concrete footpath
- Shot blast pavement treatment
- Provide street tree planting
- Consolidation of carparking with line marking & wheel stops.

NOTE: This is an option only and subject to investigation.



Native grass planting & open kerb



Waterhousea floribunda (Weeping Lilly Pilly)



Existing 1200mm concrete footpath to be made good. Proposed shot blast pattern to be incorporated into existing concrete to future detail.

Proposed street tree planting and rain gardens between footpath and road. Provide pedestrian crossovers between parking and footpath.

Provide new line markings and wheel stops along Thompson Street to improve the legibility of existing car parking space.

Open kerb to allow water infiltration into roadside rain gardens.

Existing 1200mm concrete footpath to be made good. Proposed shot blast pattern to be incorporated into existing concrete to future detail.



FIGURE 26. TYPICAL STREETSCAPE DETAIL - THOMPSON STREET

FIGURE 27. TYPICAL STREET TREE PLANTING - THOMPSON STREET

DETAIL PLAN 1B.3 | OPTION FOR CONNECTING STREET C



Existing view along Pacific Street

PACIFIC STREET

Pacific Street between The Entrance Road and Tuggerah Parade. A pedestrian footpath exists along the southern side of the road.

Proposed upgrades include:

- Upgrade existing concrete footpath
- Shot blast pavement treatment in designated locations
- Provide street tree planting
- Consolidation of carparking with line marking.

NOTE: This is an option only and subject to investigation.



Native grass planting & open kerb



Tristanopsis laurina 'Luscious' (Water Gum)



New concrete pedestrian footpath 1200mm wide along the northern side of road.

Proposed street tree planting and rain gardens between footpath and road. Provide pedestrian crossovers between parking and footpath.

Open kerb to allow water infiltration into roadside native grasses.

Provide new line markings for parallel parking along both sides of Pacific Street.

Shot blast pattern in designated locations on concrete footpath between The Entrance Road & Foreshore Reserve. To future detail.

Existing 1200mm concrete footpath to be made good. Proposed shot blast pattern to be incorporated into existing concrete to future detail.



FIGURE 28. TYPICAL STREETSCAPE DETAIL - PACIFIC STREET

FIGURE 29. TYPICAL STREET TREE PLANTING - PACIFIC STREET

5.3 POSSIBLE PROJECTS | PRECINCT B | SALTWATER CREEK RESERVE & LIONS PARK

POSSIBLE PROJECTS*	PRIORITY			TIME FRAME			PROBABLE COST			ACTION
	HIGH	MODERATE	LOW	SHORT	MEDIUM	LONG TERM	HIGH	MODERATE	LOW	
1 New boat ramp and Car park	H	M	L	S	M	L	H	M	L	Refer to Detail Plan 2A
2 Investigate Restaurant / Cafe venture	H	M	L	S	M	L	H	M	L	To be investigated by Council
3 Mobile food outlet	H	M	L	S	M	L	H	M	L	
4 Feature landscaping along southern gateway entry	H	M	L	S	M	L	H	M	L	Refer to Detail 2B
5 Kiosk / Restaurant / Estuary Management Education Centre	H	M	L	S	M	L	H	M	L	To be investigated by Council
6 Provide free Wifi access	H	M	L	S	M	L	H	M	L	To be investigated by Council
7 Possible improvements / upgrades to playground area in Lions Park	H	M	L	S	M	L	H	M	L	To be investigated by Council
8 Children's bicycle track	H	M	L	S	M	L	H	M	L	To be investigated by Council
9 Upgrade existing footbridge	H	M	L	S	M	L	H	M	L	To be investigated by Council
10 Delineate carparking at Lions Park	H	M	L	S	M	L	H	M	L	To be investigated by Council
11 Exercise equipment	H	M	L	S	M	L	H	M	L	To be investigated by Council
12 Entry sculpture	H	M	L	S	M	L	H	M	L	To be investigated by Council

*Refer to Figure 13 for possible project locations. Note: Locations are indicative only.

FIGURE 30. POSSIBLE PROJECT PRIORITISATION | PRECINCT B

DETAIL PLAN 2A | SALT WATER CREEK RESERVE



THEMING IMAGES



Estuary Education Centre / Kiosk



Landscaped carpark



Short term mobile food outlet

BOAT RAMP UPGRADE

Upgrade existing boat ramp and provide sufficient parking to encourage boat launching from Long Jetty.

CAR PARK UPGRADE

Upgrade existing car park at Saltwater Creek Reserve to provide more efficient and safe car parking adjoining park.

MOBILE FOOD OUTLET

Provide space and services for mobile food outlet to draw more users into Saltwater Creek Reserve.

OPEN LAWN AREA

Lawn area for passive activities.

ESTUARY EDUCATION CENTRE

Investigate potential for an estuary education centre with a cafe / kiosk incorporated.

FIGURE 31. DETAIL PLAN - SALTWATER CREEK RESERVE

DETAIL PLAN 2B | GATEWAY PLANTING



PROPOSED SEAHORSE SCULPTURE

Proposed seahorse sculpture (or other artwork) located near existing flag pole banners. Proposed sculpture to be surrounded by large feature sandstone and native grass planting.

PROPOSED FEATURE LANDSCAPING

Proposed planting of an avenue of large trees eg. Kauri Pine or Date Palms to define the entry to Long Jetty from the south.

Proposed mass planted bands of native grasses and decomposed granite to provide a pleasant entry to Long Jetty with minimal maintenance.

EXISTING FLAGPOLE BANNERS

Existing flag pole banners located in the central median of The Entrance Road at the entry to Long Jetty. Proposed mass planting of native grasses to compliment the flag poles.

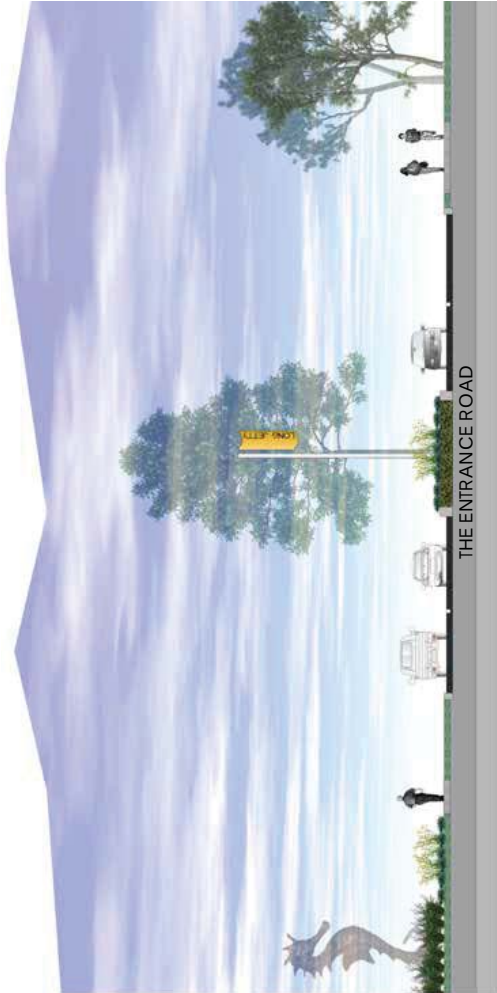


FIGURE 33. CROSS SECTION - SOUTHERN GATEWAY PLANTING (Tree species indicative only)

THEMING IMAGES



Seahorse sculpture made from recycled materials



Avenue tree planting species: Kauri Pine (Note: Option only)



Median planting examples

FIGURE 32. DETAIL PLAN - SOUTHERN GATEWAY PLANTING

5.4 POSSIBLE PROJECTS | PRECINCT C | LAKE FORESHORE & JETTIES

POSSIBLE PROJECTS*	PRIORITY			TIME FRAME			PROBABLE COST			ACTION
	HIGH	MODERATE	LOW	SHORT	MEDIUM	LONG TERM	*HIGH	MODERATE	LOW	
1	H	M	L	S	M	L	H	M	L	To be investigated by Council.
2	H	M	L	S	M	L	H	M	L	To be investigated by Council.
3	H	M	L	S	M	L	H	M	L	Refer to Detail 3A.
4	H	M	L	S	M	L	H	M	L	Refer to Detail 3B.
5	H	M	L	S	M	L	H	M	L	To be investigated by Council.
6	H	M	L	S	M	L	H	M	L	To be investigated by Council.
7	H	M	L	S	M	L	H	M	L	Refer to Detail 3C.
8	H	M	L	S	M	L	H	M	L	To be investigated by Council.
9	H	M	L	S	M	L	H	M	L	Refer to Detail 3D. Detailed design documentation to be prepared.
10	H	M	L	S	M	L	H	M	L	To be investigated by Council.
11	H	M	L	S	M	L	H	M	L	To be investigated by Council.
12	H	M	L	S	M	L	H	M	L	To be investigated by Council.
13	H	M	L	S	M	L	H	M	L	To be investigated by Council.
14	H	M	L	S	M	L	H	M	L	To be investigated by Council.

FIGURE 34. POSSIBLE PROJECT PRIORITISATION | PRECINCT C *Refer to Figure 15 for possible project locations. Note: Locations are indicative only.

PRECINCT C | LAKE FORESHORE & JETTIES



DETAIL 3A | JETTY EMBELLISHMENTS

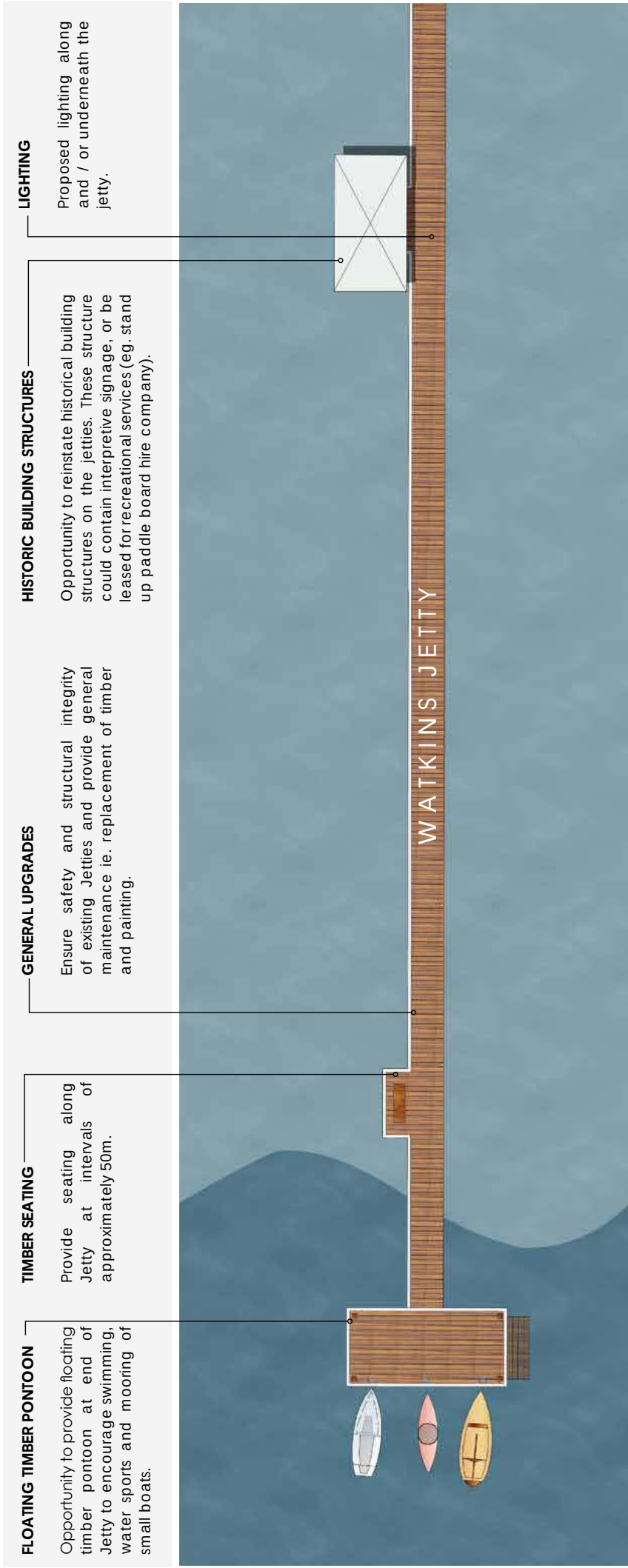
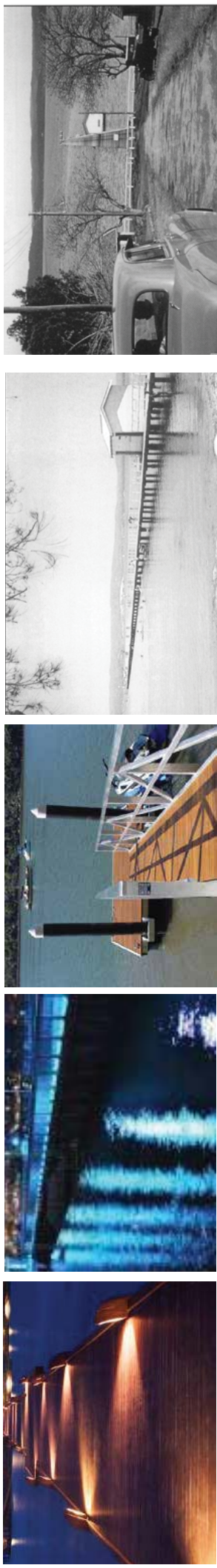


FIGURE 36. TYPICAL DETAIL - PROPOSED JETTY UPGRADES



Moir Landscape Architecture

DETAIL 3B | WATKINS JETTY NODE



LANDSCAPED SWALES

Existing Casuarinas trees to be removed and replaced with native grasses. Refer to Detail 3D.

WATER PLAY AREA

Proposed water play area to educate users about the estuary management issues surrounding Tuggerah Lake. Play elements including water spouts, use recycled water. Formalised concrete play areas runs into an indicative creek line to interpret the journey of water through the catchment into Tuggerah Lake. Informative signage and games to be incorporated into the play area to suit a wide range of age groups.

EXISTING STRUCTURES

Existing structures to be retained and incorporated into the water play area to allow for surveillance.

TUGGERAH PARADE

Improve car parking along Tuggerah Parade to support proposed water playground.

SIGNAGE

Proposed signage to provide link to The Entrance Road. Refer to Detail 3C.



FIGURE 37. DETAIL PLAN - WATER PLAY AREA - WATKINS JETTY

DETAIL 3C | OPTION FOR FORESHORE SIGNAGE

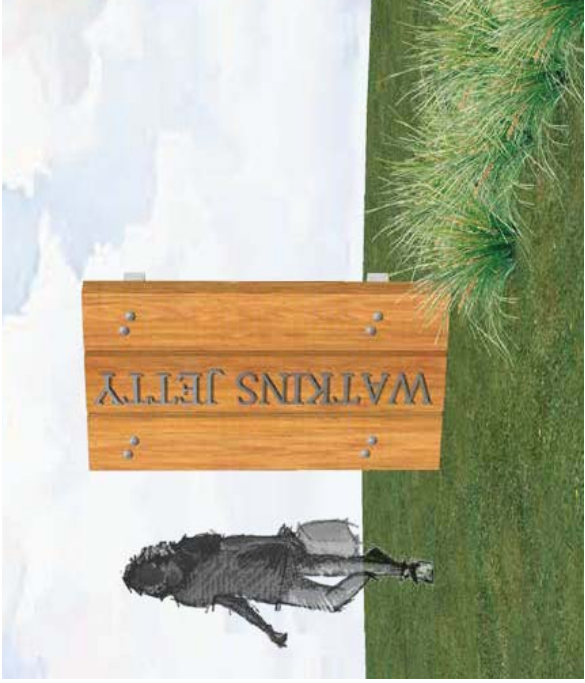


FRONT OF SIGNAGE

Front of signage to face the foreshore cycleway providing information at each jetty. Signs are to provide a history of the jetties and their use in the 1800's and 1900's.

Information about the indigenous history of Long Jetty, and estuary management could be incorporated on the signs.

NOTE: This is an option only and is subject to Council's branding strategy.



REAR OF SIGNAGE

Rear of signage to face Tuggerah Parade to identify each Jetty.

Large steel lettering on the rear of the signage and the use of recycled materials including timber, corten steel and large bolts to interpret to the jetties.

FIGURE 38. PROPOSED SIGNAGE CONCEPT - FRONT VIEW



FIGURE 39. PROPOSED SIGNAGE CONCEPT - REAR VIEW

DETAIL 3D | LANDSCAPED SWALES

BACKGROUND NOTES:

Due to the highly developed nature of Long Jetty catchment, sediments, nutrients and litter pollute the Lake. There are limited opportunities to provide wetlands or bio-retention areas which are the types of treatment required for the removal of nutrients.

There is an opportunity to treat the storm water catchments along the Lake Foreshore Reserve. Existing Casuarina trees located along drainage lines along the Lake Foreshore Reserve were planted as part of the Lakes Improvement Program in the early 1990s. These Casuarinas tend to have a very invasive nature and generally do not assist in the removal of nutrients and pollutants in the stormwater.

RECOMMENDATIONS:

- Remove existing trees to improve solar access, maintenance access and amenity.
- Provide rock lining and native grasses along drainage channels to assist in the removal of nutrients from the stormwater.
- Gross Pollutant Traps be installed at the following Streets to catch litter and some sediment before it reaches the Lake.

1. Lake Street
2. Venice Street
3. Gladston Avenue
4. Surf Street
5. Elsiemer Street
6. Thompson Street
7. Pacific Street



FIGURE 40. TYPICAL LANDSCAPED SWALE



Existing Casuarina Trees along Foreshore Reserve



Limited ground covers where Casuarinas dominate drainage channels.



Example of Gross Pollutant Trap

5.5 POSSIBLE PROJECTS | PRECINCT D | SOUTHERN PRECINCT

POSSIBLE PROJECTS*	PRIORITY			TIME FRAME			PROBABLE COST			ACTION
	HIGH	MODERATE	LOW	SHORT	MEDIUM	LONG TERM	* HIGH	MODERATE	LOW	
1 Provide urban planting and landscaping along The Entrance Road to unify southern precinct.	H	M	L	S	M	L	H	M	L	Refer to Detail 4A.
2 Investigate options to improve carparking along side streets.	H	M	L	S	M	L	H	M	L	To be investigated by Council.
3 Define southern gateway through built form.	H	M	L	S	M	L	H	M	L	To be investigated by Council.
4 Street tree planting along side streets (Lake Road and Minto Avenue)	H	M	L	S	M	L	H	M	L	To be investigated by Council.
5 Promote hub for Information Technology industries supported by the newly installed NBN.	H	M	L	S	M	L	H	M	L	To be investigated by Council.
6 Consolidate advertising and other signage to reduce visual clutter.	H	M	L	S	M	L	H	M	L	To be investigated by Council.
7 Formalise road treatment along side streets.	H	M	L	S	M	L	H	M	L	To be investigated by Council.

FIGURE 41. POSSIBLE PROJECT PRIORITISATION | PRECINCT D

*Refer to Figure 17 for possible project locations.
Note: Locations are indicative only.

DETAIL 4A | DETAIL PLAN - SOUTHERN PRECINCT



FIGURE 42. TYPICAL DETAIL - SOUTHERN PRECINCT

SIDE STREET CAR PARKING

New line markings on Side Streets (Minto Avenue and Lake Street) and signage to identify car parking spaces.

STREET TREE PLANTING

Investigate the potential to incorporate street tree planting along Lake Road and Minto Avenue to encourage pedestrian access to lake foreshore.

ROAD BLISTER UPGRADES

Proposed planting and pavement to provide safe pedestrian access across Lake Street.

STREET TREE PLANTING

Investigate the potential to incorporate street tree planting along The Entrance Road.

NATIONAL BROADBAND NETWORK

Installation of NBN due for completion end of 2013.

URBAN LANDSCAPING

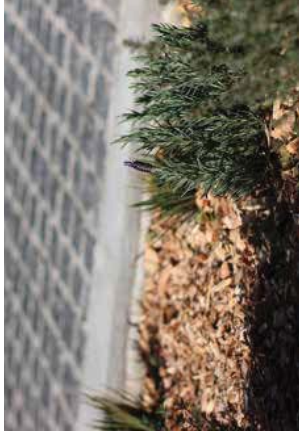
Provide landscaping to compliment existing streetscape improvement works (Concrete bollards and flag pole banners) on corner of McLachlan Avenue.



Urban landscaping



Street tree planting - Local Roads



Road blister planting

APPENDIX A COMMUNITY CONSULTATION

A.1 Long Jetty Community Consultation Survey Results

Appendix A. Long Jetty Community Consultation Survey Results

LONG JETTY IMPROVEMENT MASTERPLAN Snapshot of Survey Results  A Survey was undertaken by Council to obtain preliminary community input into the Long Jetty Improvement Masterplan. The Survey was publicised and available on-line through Council's Consultation Hub. It was also available on-paper at various locations throughout December 2012 and January 2013. The response was very good with 73 surveys submitted by the closing date. A snapshot of the results is provided below:	
Key Attributes	1 Nearly half of all respondents thought the Lakeside Location was the most important Key Attribute of Long Jetty. 2 Over 70% of respondents rated Parks and Facilities in the top 3 Key Attributes. 3 The most popular additional Key Attribute identified by respondents was that Long Jetty is Close to Beaches.
Key Challenges	4 Half of all respondents thought that Congestion was the most important Key Challenge in Long Jetty. 5 40% of respondents rated Vandalism and Employment in the top 3 Key Challenges. 6 The most popular additional Key Challenge identified by respondents was that the Long Jetty streetscape looks generally Run-Down and Poorly Maintained.
Key Words	7 37% of respondents associated Community with Long Jetty. 8 25% of respondents associated Diversity with Long Jetty. 9 The most popular additional Key Words respondents associated with Long Jetty were Run-Down and Neglected but also that it has the potential to be Vibrant and Unique.
Key Opportunities	10 71% of respondents identified the Parkland Foreshore Precinct as a Key Opportunity for Long Jetty. 11 67% of respondents identified Retail Development as a Key Opportunity for Long Jetty. 12 Half of respondents identified Tourism as an Opportunity for Long Jetty. 13 The most popular additional Opportunity for Long Jetty identified by respondents was to Clean up the Lake and Improve the Foreshore.
Newly Installed Streetscape Improvements	14 There was generally a mix of responses about the Newly Installed Streetscape Improvements. 15 Some respondents thought it made an improvement and liked the Vibrant Colours and Flag Poles. 16 Some respondents thought it didn't make an improvement and disliked the White Bollards. 17 Some respondents hadn't noticed any improvements.
Other Comments	18 There was generally a mix of other comments by respondents. 19 A lot of comments related to Traffic and also to Roads and Verges and their maintenance and repair. 20 A lot of comments focussed on the General Appearance of Long Jetty. 21 There were comments both positive and negative on the Prevalence of Second Hand Shops.

APPENDIX B STAKEHOLDER WORKSHOP MINUTES

- B.1 Stakeholder Meeting 2 (Workshop 1) Notes
- B.2 Stakeholder Meeting 3 (Workshop 2) Notes
- B.3 Stakeholder Meeting 4 (Workshop 3) Notes

Appendix B.1. Long Jetty Stakeholder Meeting 2: 11th March 2013

Workshop Notes

General comments:

- Lake and town are currently separated.
- Currently streets look messy / shabby - need to clean up.
- Need to look at current connections between pedestrian and cycleways.
- Look at ideas such as 'Renew Newcastle'.
- Focus on a revitalizing one key area to drive political funding and support.

Commercial Precinct:

- The Entrance Road between Toowoona Bay Road and Elsie Meir Street was generally identified as the 'Main Street'.
- Toowoona Bay Road was identified as a key opportunity to link the existing commercial precinct to the Lake front. Reasons given were the width of the road and proximity to the lake, and location at start of commercial precinct.
- Cable underground power lines along The Entrance Road in the commercial precinct to reduce visual clutter in the main street.
- Opportunity to provide gallery space for local artists.

Parks & Foreshore:

- Provide an area along the foreshore for swimming.
- Examples were given of towns with successful foreshore areas: River Walk in Townsville, River Walk in Noosa, Port Macquarie.
- The stakeholders considered Saltwater Creek Reserve and Lions Park to be an important feature of the town.
- Lions Park entry gates require enhancement.
- Opportunity to draw visitors to Long Jetty through Markets at Salt Water Creek Reserve and along the foreshore.
- - Examples: Batemans Bay & Avoca Beach Markets
- Slow traffic along Tuggerah Parade.
- Provide exercise equipment along the foreshore.
- Needs to be a draw card between Saltwater Creek Reserve and Toowoona Bay Road to link the two areas together.

Theming:

- Significance of Long Jetty being between the Beach & Lake.
- Sustainability / recycling 'embrace bohemian theme'.
- Highlight the historical assets.
- Significance of photography in the area.

Streetscape:

- Opportunity to provide street trees on local roads between The Entrance Road and Tuggerah Lake.
- Agreement that there was currently not enough 'green' and too much concrete / hard surfaces.
- Planting in central median strip - Wyong Road is an example.
- Wide side streets provide an opportunity to incorporate planting and street trees.
- Clean footpath.
- Close down areas of parking on the main road and extend pavement to provide alfresco dining areas.
- Provide footpaths between The Entrance Road and Tuggerah Lake as a priority.

Signage:

- Signage to identify visitors they are entering Long Jetty.
- Opportunities to include signage on the existing cycleway to connect Saltwater Creek Reserve to the commercial precinct.
- General consensus that there should be consistency in signage.
- People liked the existing coast to lake signage.
- More signage to identify where parking is.
- Large areas of paving provide opportunities for alfresco dining.
- Large volume of people on cycleway creates an opportunity to direct visitors up to the commercial precinct through signage.
- 5 Lands Walk - example of successful signage.
- Use signage to let people know distance to beach, the entrance etc.

Lake:

- Lead people towards Tuggerah Lake.
- Consider removing sea grass in one location to provide a clean swimming area.
- Embellish existing Jetties with lighting.
- Currently cannot tie boats up to Jetties.
- Issues with weed at Paddle Boat Hire.

Businesses:

- Provide a tourist kiosk (ice-cream stand, coffee etc.) close to the Parks, this could link into another business such as a restaurant overlooking the lake.
- Provide space for local artists.
- Pop up cafes along foreshore.
- Diverse range of 'quirky' and 'interesting' businesses to be showcased.
- Long Jetty needs an anchor business such as a supermarket to draw people to the area.

Appendix B.2. Long Jetty Stakeholder Meeting 3: 8th April 2013

Workshop Notes

Presentation: Tuggerah Lakes Estuary

Presented by David Ryan (Wyong Shire Council)

- Projects: Regenerating Salt Marsh around Lake.
 - Trying to get natural vegetation around foreshore however expensive, so focus is now on preserving existing.
 - Action plan also includes fixing boat ramps, cycleways etc.
 - Tuggerah Lakes Catchment - Lagoon System with a large catchment area.
 - A lot of run off from valleys feeding basins.
 - Lots of sediment from agricultural lands.
 - Storm water run off from urban areas includes rubbish and nutrients.
 - Only 1% ocean exchange from The Entrance channel.
 - Lake area is 80km², catchment area is 800km².
 - What goes in the lake stays in the lake.
 - Near shoreline the storm water is high in sediment.
 - The amount of sea grass hasn't increased since the 1960s, just the location is closer to the shore.
 - The problem is the high level of nutrients, little or no mixing of water.
 - Long Jetty area has the most nitrates from storm water run off in the whole catchment area.
 - Solutions: Council is increasing wrack collection, replacing gross pollutant traps, community education, reduce clippings from entering storm water.
 - Some residents are maintaining salt marsh and as a result species are reappearing.
- Presentation: Long Jetty Master Plan
- Presented by David Moir (Moir Landscape Architecture)
- Hubs have been identified to better utilise money by focusing on certain areas rather than diffuse money over whole Study Area.
 - Hubs include: Southern Gateway, Foreshore Reserve, Long Jetty Village Centre and Connecting Roads.
 - Long Jetty Theme - connections with the lake, natural themes, photography, natural materials, timber (referencing jetties).

Workshop Minutes:

- Opportunity to incorporate information centre to educate public about Estuary Management similar to Terrigal Marine Centre.
- Opportunity for commercial development between lake and The Entrance Road to draw people down to the lake. Watkins Jetty and Foreshore to connect to The Entrance Road.

- Enhance areas where space exists eg. Corner cafe - Glass Onion Society.
- Laneways at rear of shops to improve parking and access for shop owners.
- Need to look at projects in short, medium and long term.
- Improve and extend cycleways to provide better connections between the lake and beach.
- Existing coast to lake walk to include a section which runs through the 'Long Jetty Village Centre'
- Utilise permeable materials to reduce run off into the lake.
- Opportunity to allow lake front business opportunities and Watkins Jetty and Saltwater Creek Reserve.
- Provide a key focus area for wrack removal and cleaning the lake. This could be done at Saltwater creek reserve or Watkins Jetty.
- Existing BMX track may need new signage.
- Opportunity for bicycle hire and bike racks to encourage cyclists in the area.
- Pacific Street identified as easiest route to access the Lake with prams and bicycles as it is flat.
- Opportunity to provide Wifi internet access at Saltwater Creek Reserve to encourage use.
- Opportunity to enhance existing jetty with lighting and sculptural elements. Provide visual cues to areas from the town.
- Sculptural contests and competitions ie. sculptures by the sea.

Appendix B.3. Long Jetty Stakeholder Meeting 4: 14th May 2013

Workshop Notes

Attendees:

Wyong Shire Council (WSC):
Gary Hamer, Tania Halbert, Paul Bowditch

Moir Landscape Architecture (MLA):
David Moir, Phill Walbank, Ashley Rathgen

Gary Hamer (WSC)

- June 2008- Council resolution for the Long Jetty Master Plan to incorporate a commercial operation with education aspects.

David Moir (MLA) Presentation

Purpose of this workshop is to prioritise the proposed projects and suggest any additional projects Study Area has been divided into four key precincts these include:

A: Main Street & Urban Core

'Village Centre' shopping strip along The Entrance Road and connecting streets to the Lake (Pacific Street, Toowoan Bay Road, Thomson Street).

B: Saltwater Creek Reserve & Lions Park

Includes the two parks and section of road at the southern entry to Long Jetty.

C: Lake Foreshore & Jetties

The foreshore reserve associated with Tuggerah Lake and associated jetties (Parrys Jetty, Watkins Jetty and Long Jetty).

D: Southern Precinct

The commercial precinct at the southern end of Long Jetty.

Discussion / Feedback:

A: MAIN STREET AND URBAN CORE

Discussion:

- Development in Key Iconic Site needs to have a point of difference to other town centres
- General agreement there should be a village focus on development ie. smallscale supermarket

- and speciality stores
- Street upgrades to include a hierarchy of materials, and be pram, wheelchair and bicycle friendly
- Upgrade of old theatre complex into a community space to build on the existing attractions in Long Jetty

High Priority Projects

- Rezone land between Pacific Street & Thompson Street from 2 (a) to 3 (a)
- Street trees and landscape improvements
- Main street footpath upgrades
- Consolidation of car and bus parking on side streets (ie. Thompson St, Pacific St & Toowoan Bay Road)
- Urban planting and landscape improvements

Moderate Priority Projects

- Possible upgrade of old theatre complex (Key Iconic Site) into entertainment / community space
- Focal point at northern entry to Long Jetty
- Restaurant / Shopping Village / Education Centre

Long-term Projects

- Footpath widening in key areas to provide alfresco dining areas
- RMS road widening, street trees and under grounding of powerlines along The Entrance Road

Additional projects identified:

- - Bicycle parking at The Entrance Road

B: SALTWATER CREEK RESERVE

Discussion:

- Opportunity to incorporate a Marine Information Centre, commercial food outlet and toilets all in one building - would require detailed design resolution
- Boat ramp improvements would require dredging
- Opportunity to incorporate services for market stalls etc. into car park upgrade works
- Provide space for a temporary food outlet in the near future - down the track a permanent food outlet could be incorporated into Saltwater Creek Reserve

High Priority Projects

- Boat Ramp and associated parking
- Car Park associated with Saltwater Creek Reserve to be upgraded
- Free WiFi access at Saltwater Creek Reserve

- Mobile food outlet at Saltwater Creek reserve

Moderate Priority Projects

- Feature landscaping along southern gateway
- Marine Information Centre & permanent commercial food outlet

Long-term Projects

- Expansion of playground area

Additional projects identified:

- Community gardens
- Fenced off dog off leash area

C: LAKE FORESHORE AND JETTIES

Discussion:

- Existing bicycle track needs to be upgraded in some areas
- General consensus the existing jetties should be embellished with lighting, bench seating, areas for boats to pull up at jetties, platform to provide access for boats and swimmers.
- Cycleway is underwater when flooding occurs

High Priority Projects

- Embellish existing jetties
- Links between foreshore and commercial precinct
- Storm water pollution traps to catch rubbish - open up drains and landscape

Moderate Priority Projects

- New public park, food outlet and water play area at Watkins Jetty
- Landmark tree planting to identify Long Jetty
- Selective tree removal to provide open space and assist in improving safety and connectivity
- Walkway upgrades in low lying areas
- Upgrades to Tuggerah Parade

Long-term Projects

- Introduce vertical elements to provide a visual marker
- Event space along cycleway for linear festivals

Additional projects identified:

- Signage
- Exercise equipment along cycleway

- Promoting cycleway through events & festivals iconic to Long Jetty

D: SOUTHERN PRECINCT

Discussion:

- Minto and Lake Streets provide level access between The Entrance Road and the Lake (for southern end of Long Jetty).
- Opportunity to recognise buildings at the southern gateway as significant

High Priority Projects

- Provide a unifying element to define this as a precinct (ie. landscaping)

Moderate Priority Projects

- Promote area as a hub for IT industries
- Provide kerb and guttering in side streets
- Improve parking in side streets
- Review advertising and other signage in precinct and consolidate where possible.

Appendix B.4. Long Jetty Stakeholder Meeting 5: 23rd September 2013

Workshop Notes

Attendees:

Wyong Shire Council (WSC):
Gary Hamer, Tania Halbert

Moir Landscape Architecture (MLA):
David Moir, Ashley Rathgen

3 Key Stakeholders attended the Stakeholder Meeting.

- Public exhibition of Draft Master Plan was from 7th of August until 4th of September.
- The exhibition included material located at Libraries, WSC Website, Consultation Hub and Council Chambers.
- A total of 12 submissions were received and most were positive.
- A presentation of the Master Plan was presented to the The Entrance Peninsula Community Precinct. Their minutes endorsed the proposed lifestyle improvements in the Long Jetty Master Plan and look forward to its early implementation.
- This was the last workshop undertaken.
- Master Plan was well received by stakeholder and they are keen for progression from Master Plan to implementation.

Possible Projects from Public Exhibition:

- Fenced dog areas in Long Jetty.
- Community Art.
- Community festivals.
- Youth facilities e.g. skate ramp.
- Electronic display - Local information including: things to do in Long Jetty, weather and time and advertising for businesses.
- Bike track.
- Security sponsored by council and businesses to patrol Long Jetty at night.
- Signs on new bin enclosures to educate the public that what doesn't go in the bin end up in the lake.
- No off leash areas near cycleways.
- Notice for works on jetties.
- Xmas tree in Saltwater Creek Park.

Council is currently initiating the first projects of the implementation plan.

These projects include:

- Jetty upgrades
- Footbridge replacement
- New kerb ramps and bin hutches
- Wifi in Saltwater Creek Reserve