



NOTICE OF MEETING

Notice is hereby given that of a meeting of the **Sustainable Transport Committee** meeting will be held:

DATE: Thursday, 10 December 2015

TIME: From 6.30pm to 8.30pm

PLACE: Councillors' Room Manly Council, 1 Belgrave Street, Manly

COMMITTEE MEMBERS:

Councillors

Cllr Cathy Griffin

Manly Council (Chair)

Cllr Hugh Burns

Manly Council

Other Members

Mr Peter Hopper

Community Member

Mr Richard Green

Community Member

Mr Jonathan Gunn

Community Member

Ms Melissa Palermo

Community Member

Ms Angela Andrews

Community Member

Council Staff

Mr Ben Hubbard

Manly Council (Traffic Manager)

All other Councillors are free to attend as observers and are invited to do so and to engage in discussions, but not in voting, on any matter before the Committee.

Gordon Malesevic

Chief Operating Officer - Civic & Urban Services

Date:



AGENDA

SUSTAINABLE TRANSPORT COMMITTEE

**MEETING TO BE HELD ON THURSDAY 8 OCTOBER 2015 AT 6.30PM
COUNCILLORS ROOM, MANLY COUNCIL CHAMBERS**

- | | |
|---------------|---|
| ITEM 1 | Apologies and Leave of Absence |
| ITEM 2 | Declarations of Interest – Pecuniary
Non-Pecuniary |
| ITEM 3 | Matters arising / Item tracker |
| ITEM 4 | Safety items |
| ITEM 5 | Strategic way finding program |
| ITEM 6 | Proposed cycle parking |
| ITEM 7 | Cycle parking at Manly Wharf |
| ITEM 8 | General Businesses |
| ITEM 9 | Date of Next Meeting: 6.30pm Thursday 5 February 2016 |



MINUTES OF MEETING

SUSTAINABLE TRANSPORT ADVISORY COMMITTEE

HELD THURSDAY 8 October 2015

NOTE: All minutes are subject to confirmation at a subsequent Council or Planning and Strategy Committee meeting.

PRESENT:

Councillors

Cllr Cathy Griffin (Chair)	Manly Council
Cllr Hugh Burns	Manly Council

Other Representatives

Richard Green	Community representative
Ms Melissa Palermo	Community representative
Johnathan Gunn	Community representative

Council Staff

Ben Hubbard	Traffic & Transport Manager
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TO THE MAYOR AND COUNCILLORS OF THE COUNCIL

The **Sustainable Transport Advisory Committee** met on Thursday 8 October 2015, to consider the matters referred to it and now provides the following advice to Council.

ITEM 1	APOLOGIES AND LEAVE OF ABSENCE	ACTION
	Mayor Jean Hay, Ms Angela Andrews and Mr Peter Hopper	
ITEM 2	DECLARATION OF INTEREST	
	None	
ITEM 3	MATTERS ARISING / ITEM TRACKER	
	The item tracker was discussed. The following were matters arising:	Staff
	1. The Traffic Manager explained that options for additional cycle parking at the Wharf had been put to management. The committee asked that a report be provided on this issue to the next meeting. 2. The committee asked that the Road Safety Officer be invited to the next meeting to outline road safety campaigns for the coming year.	

	3. The committee briefly discussed the need for some improvements to the section of footpath on the east side of Manly Road between Avona Avenue and the Spit bridge. Pram ramps are required on the access road and some vegetation is in need of a trim. The Committee pleased that the footpath had been widened and installed on the east side of Manly Road and thanked Council.	ACTION
ITEM 4	SAFETY MATTERS (ITEM 06, 5/12/2013)	Staff
ITEM 5	REFUGE ISLAND AT BALGOWLAH ROAD NEAR HILL STREET, BALGOWLAH SUMMARY For Council to note the proposal to install a pedestrian refuge at Balgowlah Road east of Hill Street, Balgowlah. RECOMMENDATION The Committee recommends to the General Manager that Council consider installing a pedestrian refuge across Balgowlah Road to the east of Hill Street, Balgowlah.	
ITEM 6	PROPOSED CYCLE RACKS AT VARIOUS LOCATIONS SUMMARY For Council to note the proposal to install bicycle parking at various locations in the Manly LGA. RECOMMENDATION The Committee recommends to the General Manager that Council notes the proposal to install additional bicycle parking at a number of locations in the Manly LGA.	
ITEM 7	GREEN COLOUR TREATMENT AT COMMONWEALTH PARADE, MANLY SUMMARY For Council to consider installing a threshold for pedestrians and cyclists off Commonwealth Parade at the Manly Sea Life Sanctuary access road, Manly. RECOMMENDATION The Committee recommends to the General Manager that Council considers installing a threshold for pedestrians and cyclists off Commonwealth Parade at the Manly Sea Life Sanctuary access road, Manly.	
ITEM 8	PROPOSED PEDESTRIAN CROSSING TREATMENT AT COMMONWEALTH PARADE, MANLY SUMMARY For Council to note the proposal to install a pedestrian refuge at West Esplanade, west of Eustace Street, Manly.	

RECOMMENDATION

The Committee recommends to the General Manager that Council notes the proposal to install a pedestrian refuge across West Esplanade, west of Eustace Street, Manly.

ITEM 9 GENERAL BUSINESSES

The following was raised as general business :

1. the STAC thanks council for constructing a pedestrian refuge on Balgowlah Road close to Golf Parade
2. The STAC seeks that a pedestrian refuge is constructed on Pittwater Road (as recommended by the Pittwater area PAMP) to assist pedestrians.
3. Richard Green asked if Council would consider undertaking an education campaign to remind drivers that pedestrians have the right of way when crossing driveways and side streets. The Traffic Manager agreed to take this issue to the Road Safety officer for consideration
4. Richard Green asked about the lighting for Lagoon Park . The Traffic Manager and Cllr Burns explained that a trial scheme was believed to be imminent.
5. Several members of the committee asked if the informal path in Lagoon Park leading from Pittwater Road along the lagoon edge could be formalised. The Traffic Manager agreed to investigate and bring back a report to a future meeting.
6. Richard Green asked about the terminus for the bus at north head and whether anything could be done to improve the current arrangement. The Traffic Manager agreed to speak with the State Transit Authority to see what could be improved.

ITEM 10 DATE OF NEXT MEETING: 6.30PM THURSDAY 10 DECEMBER 2015

Meeting opened at 6:45pm
Meeting closed at 8:30pm

ITEM 04: Matters arising / Item tracker

Table 1 provides a summary of items requiring follow up actions.

Item	Description	Action	Staff comment
5 February 2015 - Matters arising	1. Potential to install double decker cycle racks next to information centre be investigated and report returned back. 2. The committee asked that a letter be written to Transport NSW suggesting that shop front next to Aldi on the Wharf could be used for cycle parking. 3. Review of cycle signage on Marine Parade 4. That STAC members write to Transport NSW and ask for patronage figures for the next express bus services 5. Budget bids for sustainable transport be provided to the Committee		Item included in December 2015 Agenda October 2015 – Memo sent to executive providing options to increase cycle parking alongside the wharf and at the west end of East esplanade.
4. Safety matters	A utility repair on Darley Road has removed cycle lane markings and left the road surface in an unsafe condition.	Traffic team to inform Urban Services team	December 2015 – Urban Services team has been informed Urban services team has been informed.
5. Council's bicycle education program	A report be prepared for the cycle education initiatives in FY2015/16.	Road safety officer to prepare a report back to the STC	December 2015 – report / presentation on road safety and cycle / active transport campaigns to be brought to the February 2016 meeting. October 2015 – Road Safety Officer joined Council mid-August. A report will be brought to the December STAC meeting about cycle safety and cycle education programmes for the year.

Item	Description	Action	Staff comment
9. Development of a strategic directional signage system	A plan to be developed to introduce strategic cycle way finding information on main cycle routes across the LGA.	Staff to bring back report to the STC	December 2015 – Item on agenda. October 2015 – report with proposed strategic way finding for cyclists to be tabled at the December 2015 meeting.
11. Feasibility of BBC to Upper Beach Street cycle route link	Feasibility to implement a cycle route link between the Burnt Bridge Creek cycle lane and Balgowlah Heights was investigated.	Not considered feasible because of width restrictions mainly. Alternative route via Ethel Street be considered to cross Sydney Road.	December 2015 – Report will be brought back in February. October- a route signed route via Ethel Street, as suggested by the STAC is being prepared and will be reported to the December STAC.
5 December 2013 – Matters Arising	3. It was reported that the cycle rack at Honolulu Grill (North Steyne) has been removed / damaged and should be replaced.		December 2015 – Additional racks to be provided for the shopping strip in this area. Traffic Team investigating suitable locations. October – rack has been replaced
6 February - Matters arising	3. Bollard lighting Lagoon Park cycle route 4. Lighting for Burnt Bridge Creek cycleway		December – a trial LED lighting scheme will be installed in Lagoon Park in early December 2015. July 2015 – A project sheet is being prepared to install solar lights along Lagoon Park in the 2015/2016 financial year. If approved, it is proposed that one solar light is installed initially as a trial prior to installing the remaining (approximately 14) lights.

ITEM 06 Strategic way finding program (ITEM 06, 08/10/2015)

SUMMARY

For Council to note the development of strategic way finding signs for the Manly cycle network

REPORT

Manly has an extensive and connected network of cycle routes. To enhance the user experience it is proposed to install a more coherent series of strategic cycle route 'way finding' signs.

These signs will provide direction and distance to main centres along the strategic cycle network and so reinforce the cycle network connectivity within Manly and with our neighbouring areas.

The proposed 'strategic cycle network' along with locations for strategic way finding signs is shown in Figure 1. The main centres to be signed at each location are shown in Table 1.

An indicative sign assembly is shown in Figure 2. Each sign assembly will include 'flag style' signs showing destination, distance and the cycle route logo.

RECOMMENDATION

That the General Manager note the development of an enhanced cycle route direction signs to provide strategic way finding for cyclists across the Manly LGA and improved cycle route connectivity with neighbouring councils

Table 1 – cycle network strategic way finding signs

	Location	Direction 1	Direction 2	Direction 3	Direction 4
1	Spit bridge	Manly Seaforth	City Mosman	-	-
2	Ross Street / Sydney Road	Manly Balgowlah	City Mosman	-	-
3	Kempbridge Avenue / Sydney Road	Manly Seaforth Oval Balgowlah	City Mosman	-	-
4	Burnt Bridge Creek underpass	Frenchs Forest Seaforth Oval	City Seaforth Mosman	Manly Balgowlah	-
5	Hope Street / Kitchener Street	City Seaforth	Balgowlah Balgowlah Height	Manly Manly Swim Centre	-
6	Balgowlah Road / Quark Road	City Seaforth	Manly West School	Manly Manly Swim Centre	-
7	Quark Road / Kenneth Road	Manly Warringah Mall Manly Swim Centre	City Balgowlah Manly West School	-	-
8	Kenneth Road / Addiscombe Road	Manly Manly Swim Centre	Warringah Mall	City Balgowlah Manly West School	-
9	Kenneth Road / Balgowlah Road	Manly Lagoon Park	City Balgowlah Warringah Mall Manly West School	Manly Swim Centre	-
10	Pittwater Road / Eurobin Avenue	Manly Queenscliff	Freshwater	City Balgowlah Manly Swim Centre	-
11	Steyne (near Queenscliff)	Manly Corso	City Balgowlah Lagoon Park	-	-
12	Victoria Parade / Steyne	Harbour Beach Manly Wharf	Queenscliff	-	-
13	Victoria Parade Darley Road	Ocean Beach	North Head Shelly Beach	Harbour Beach Manly Wharf	Manly CBD
14	Victoria Parade / East Esplanade	Harbour Beach Manly Wharf	Shelly Beach	Little Manly Beach	Manly CBD
15	Belgrave Street / West Esplanade / East Esplanade	North Harbour	North Head		
16	Woodland Street / White Street	Balgowlah Heights	Manly	Tanya Park North Harbour Reserve	
17	North Head archway	Manly			
18	Tanya Park	Manly North Harbour Reserve			

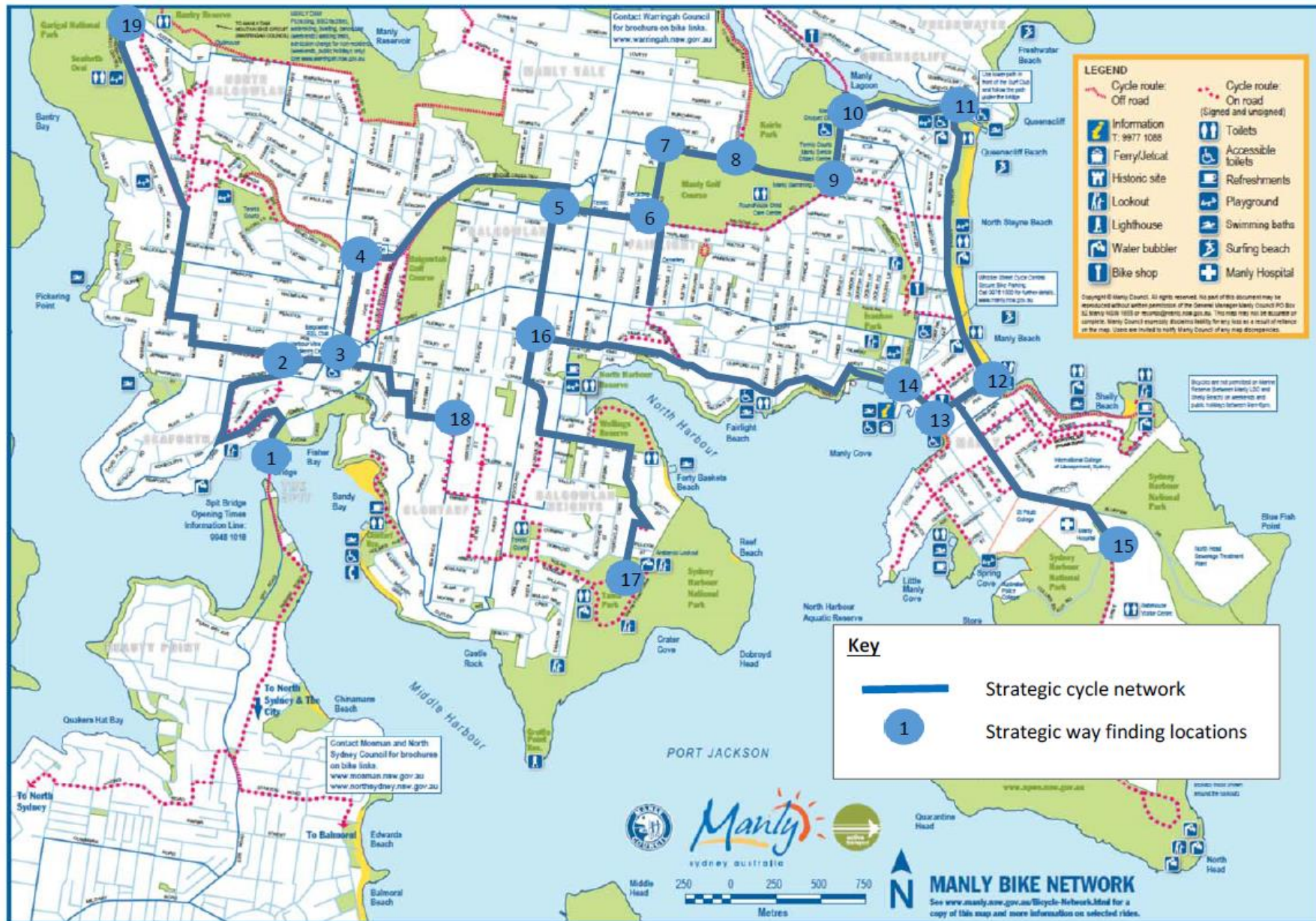


Figure 1: Proposed strategic way finding signs



Figure 2: *Example of Proposed Strategic cycle way finding sign at Spit Bridge*

ITEM 07 Proposed Cycle Parking (ITEM 07, 08/10/2015)

SUMMARY

For Council to note the proposal to install bicycle parking at various locations in the Manly LGA.

REPORT

Cycle parking has been installed at a number of locations in and outside the Manly CBD over the last couple of years. Key locations where demand was observed to exceed supply and as a result, additional parking has been installed (or planned to be installed for this financial year), include the key corridors of Pittwater and Sydney Roads and the Manly CBD. Recently installed bike parking include:

- Sydney Road corridor – approximately 25 spaces;
- Whistler Street bike cage extension – approximately 25 spaces (planned for this financial year);
- Raglan Street upgrade – approximately 50 spaces (planned for this financial year);
- Condamine St – addition of 4 U-rails (planned for this financial year);
- Keirle Park, west of Pittwater Road – addition of 5 U-rails (planned for this financial year);
- Wentworth Street, Manly – addition of two bike racks for a total of 16 bikes (planned for this financial year);
- North Steyne, Manly, along the frontage of the beach – addition of two (2) rails (planned for this financial year); and
- Whistler Street, Manly – addition of two (2) U-rails (planned for this financial year).

Planned installations for FY 2016/17

In addition to key areas such as the CBD and key corridors, bicycle parking should be considered at locations that would further encourage cycle usage, for example within recreational areas such as parks, beaches and sporting facilities and at commuter interchanges. A number of locations for bicycle racks for the FY 2016/17 are proposed as a priority (based on requests from residents or the STAC), as shown on Attachment 1:

- North Harbour Reserve, Balgowlah – addition of one bike rack for a total of eight (8) bikes;
- Bareena Park, Balgowlah Heights– addition of two (2) U-rails;
- Clontarf Reserve, Clontarf – addition of four (4) U-rails;
- East Esplanade Reserve, Manly – addition of four (4) U-rails; and
- Bower Lane (near Shelly Beach), Manly – addition of one (1) post mounted bike rail.

The Sustainable Transport Committee members are invited to comment on the proposed locations.

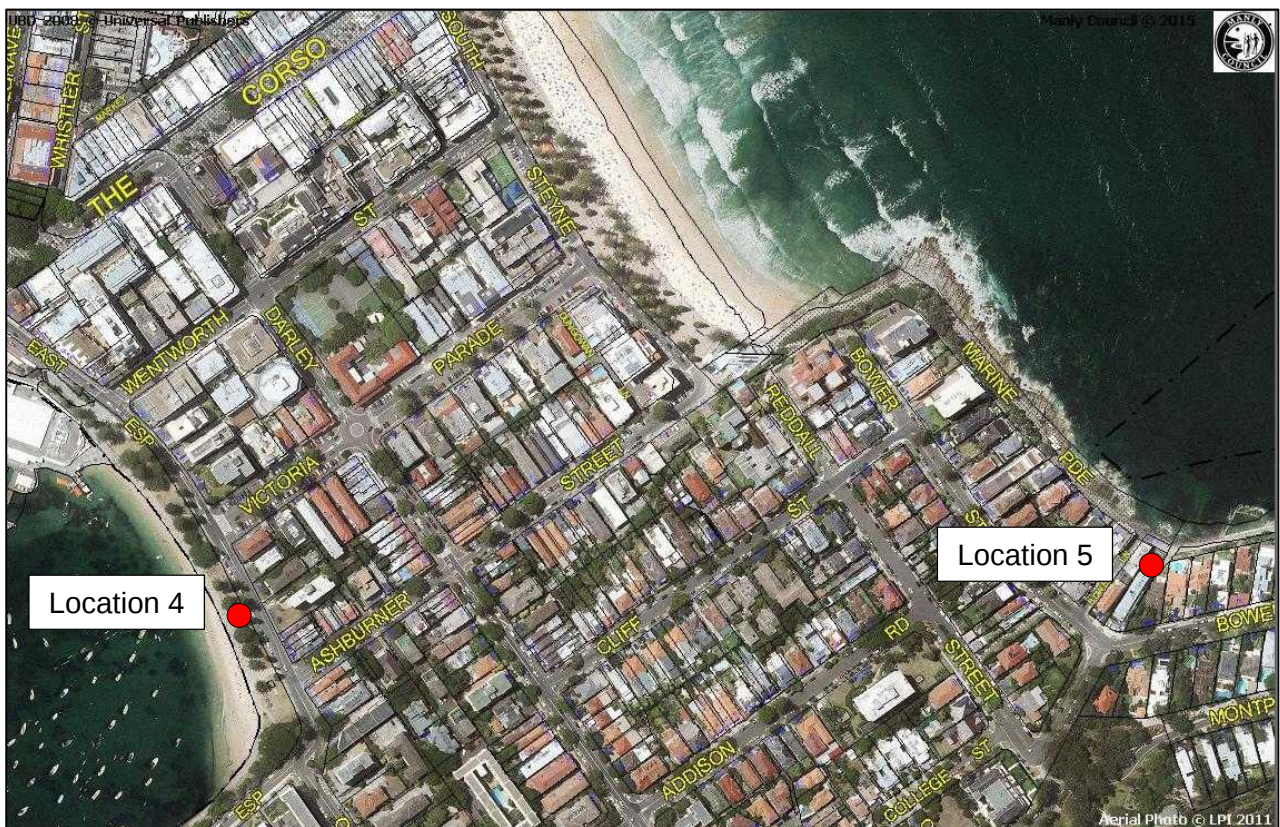
RECOMMENDATION

That Council notes the proposal to install additional bicycle parking at a number of locations in the Manly LGA.

Attachment 1 – Proposed installation of bicycle parking spaces at various locations in the Manly LGA



Figure 1: Proposed locations for bicycle parking



Figures 2: Proposed locations for bicycle parking

Location 1: North Harbour Reserve, Balgowlah



Figure 1: North Harbour Reserve – Installation of one (1) bike rack for eight (8) spaces

Location 2: Clontarf Reserve, Clontarf



Figure 2: Clontarf Reserve – Installation of four (4) U-rails

Location 3: Bareena Park, Balgowlah Heights



Figure 3: Bareena Park – Installation of two (2) U-rails

Location 4: East Esplanade Reserve



Figure 4: East Esplanade Reserve – Installation of four (4) U-rails

Location 5: Bower Lane (Shelly Beach), Manly



Figure 5: Bower Lane (Shelly Beach) – Installation of one (1) post mounted bike rail

ITEM 08 Cycle parking at Manly Wharf (ITEM 08, 08/10/2015)

SUMMARY

For Council to note the ongoing work to provide additional cycle parking at the Manly Wharf

REPORT

Cycle parking is, arguably, the most important aspect of cycle infrastructure. A lack of suitable cycle parking acts as a barrier to cycle participation or creates issues with cycles parked in inappropriate and often unsafe locations.

Manly Wharf is the end point for a large number of cycle trips for both city bound and cyclists heading to the city.

Demand for cycle parking at the wharf has continued to grow and there is now a need for an increased number of spaces.

Current provision

The cycle parking provision at the wharf has increased significantly over the past 5 years by the introduction of high density cycle parking racks. There are currently 166 cycle parking spaces on the east side of the wharf (refer to Figure 1).

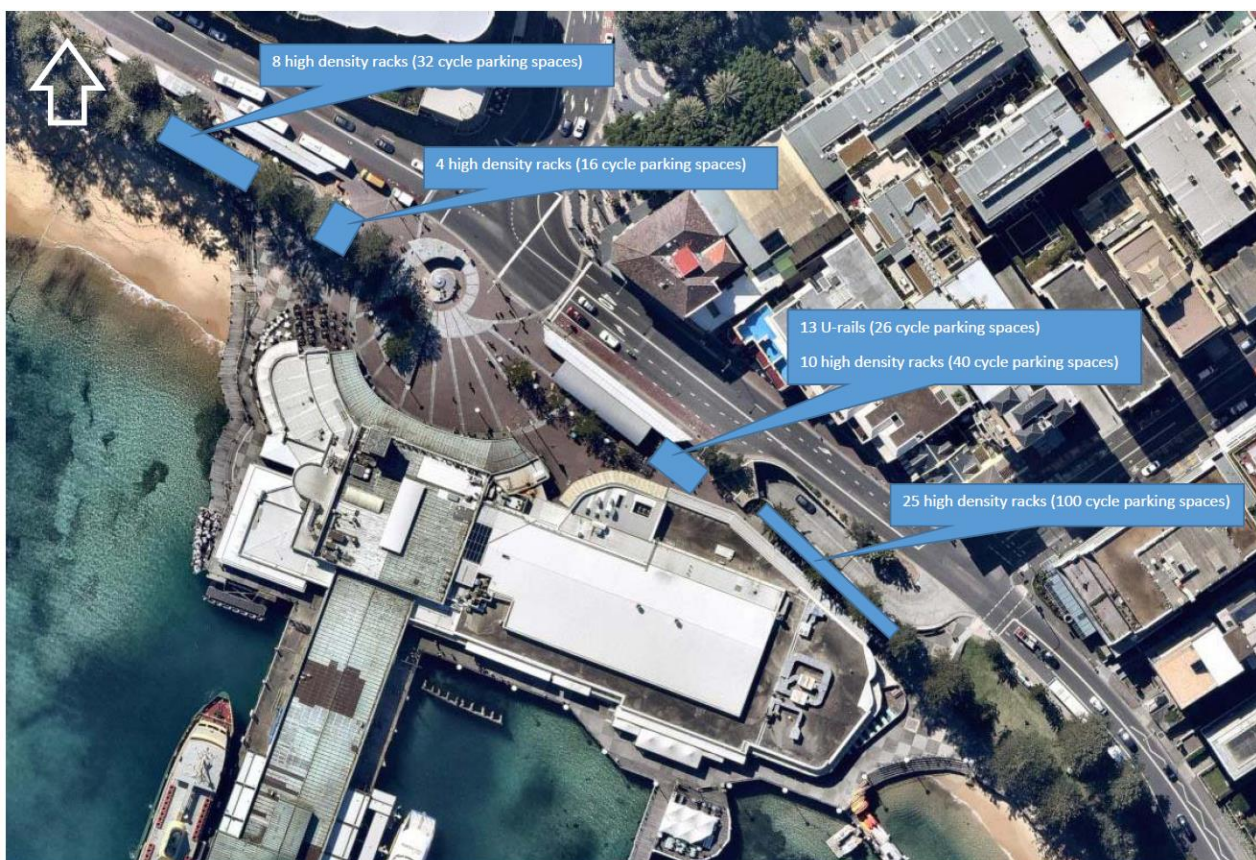


Figure 1 - Existing Cycle parking Provision at Manly Wharf

Monitoring of cycle parking at the wharf shows that the high density racks function well. However, the demand for parking is now close to exceeding the available supply, particularly during the summer months.

To continue to encourage cycle growth, and capitalise on the health and social benefits this mode affords will require a large increase in cycle parking at the wharf in the next few years.

PROPOSAL FOR INCREASING CYCLE PARKING

This report proposes two options to reconfigure the existing cycle parking alongside Manly Wharf hotel to provide a greater number of spaces. It also proposes a new cycle parking station to be located in the grass area at the end of East Esplanade (refer to Figure 2 showing location for cycle rack upgrade, proposed new cycle station site).



Figure 2 - Proposed cycle parking

There is a demand for cycle parking at the east end of the wharf. This can be observed by the number of cycles chained to the wharf railings (refer to Photo 1).



Photo 1 - Cycles parked alongside railings



Photo 2 - Location for East Esplanade Cycle Parking Station

To address this demand a section of the grass area at the end of East Esplanade could be converted into a cycle parking station. This could be achieved by installing concrete slab on which high density cycle racks could be installed (refer to Photo 2 – Location for East Esplanade Cycle parking Station).

An area approximately 16m by 66m could provide for up to a **100 cycle parking spaces**. A budget cost of \$36,000 has been estimated for the provision of this facility (as shown in Table 1).

Table 1 - Budget cost estimate East Esplanade parking station

Description	Unit	Quantity	Rate	Cost
Concrete slab + sub base	m ²	16 x 6 = 96	\$ 105	10,800
Racks (supplied and installed)	number	25 racks (4 spaces per rack)	\$ 990	25,000
Turf repairs	m ²	15.6 x 1 = 15.6	\$20	300
Total				\$ 36,100

Proposal 2 – Reconfiguration of Manly Wharf Hotel cycle parking

Reconfiguring the space alongside the Manly Wharf Hotel (refer to Photo 3 and Figure 2) could provide up to 160 cycle parking spaces (currently 100 spaces are provided). Two options have been considered:

- **Option 1- Double decker racks:** This option would require the removal and concreting of the garden bed and the installation of double decker cycle racks alongside the existing wall (refer to attached sketch plan 1). This option could provide 160 cycle parking spaces at an approximate cost of \$110,000.
- **Option 2 - Reconfigured existing racks:** This option would require the removal and concreting of the existing garden bed and the removal and reinstallation of the existing high density racks plus the installation of new high density racks in blocks perpendicular to the wall (refer to attached sketch plan 2). This option could provide 148 cycle parking spaces at an approximate cost of \$25,000.

Option 1 – Double decker cycle racks

Double decker cycle racks can provide an efficient use of land and provide a good facility for commuter cyclists. There are very few providers of double decker racks in Australia.

Double decker racks are also usually recommended at site where cyclists can be assisted to park.

A company that has produced this style of rack is Leda Security and their publicity material provides dimensions for an 8 space double deck cycle parking rack that measures 1.6m in length and 2.1m in width. This type of cycle rack system needs a clear area of approximately 4m in width and 3m in height to allow space for the upper deck cycle parking to be used (refer Figure 3 manufacturer's details).



Photo 3 – Existing cycle parking alongside Manly Wharf Hotel

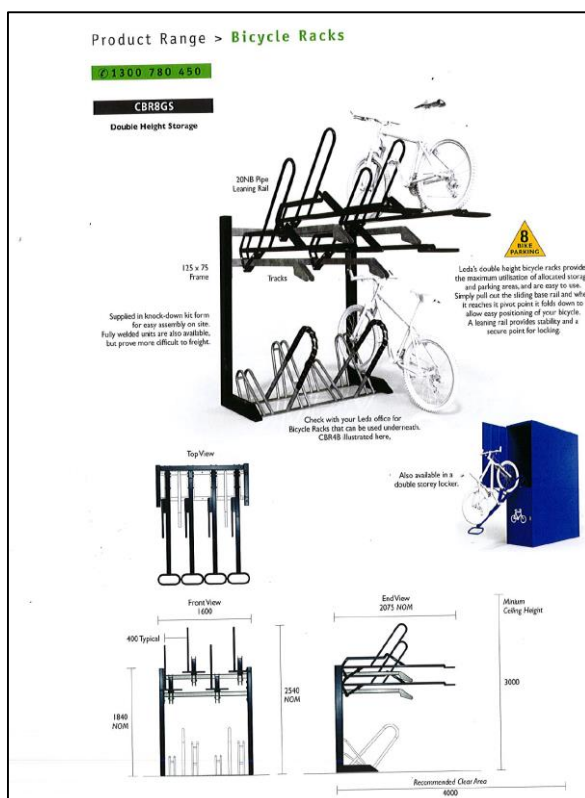


Figure 3 – Double decker cycle rack unit

The height clearance needed for a double decker cycle parking units would require some pruning of lower branches of the Norfolk Island pine trees located alongside Manly Wharf Hotel as branches are currently at a height of approximately 1.8m from the ground.

Leda Security has informed council that double decker cycle parking has not proven to be popular in Australia and they currently do not manufacture this style of rack.

Assuming a manufacturer can be found producing a unit of similar dimensions, this style of cycle rack system could provide 160 cycle parking spaces (the current racks provide 100 spaces).

Double decker racks are used extensively across the UK at railway stations and appear to function without maintenance or health and safety issues.

Table 2 provides a cost estimate to provide 160 cycle parking spaces undercover and to widen the paved area alongside the Manly Wharf Hotel by removing the existing garden beds.

Table 2 - Budget cost estimate double decker cycle parking alongside Manly Wharf Hotel

Description	Unit	Quantity	Rate	Cost
Concrete slab + sub base	m ²	36m x 1.7m = 61m ²	\$ 105	6,400
Racks (supplied and installed)	number	20	\$4,500*	90,000
Roof to racks	m	36m x 2.2m = 79m ²	\$ 150	12,000
Total				\$108,400

* Indicative price provided by supplier. However, price would be dependent on finding a supplier who is manufacturing this type of unit.

Option 2 – Reconfigure existing cycle racks

By removing the existing garden bed to the north of Manly Wharf Hotel concourse and installing 3 cycle racks perpendicular to the wall / pathway 148 cycle parking spaces in high density cycle racks could be provided without impinging on the current pathway width (refer to attached sketch plan 2).

Table 3 provides a cost estimate for removing the garden bed and reconfiguring the cycle racks alongside the Manly Wharf Hotel.

Table 3 - Budget cost estimate double decker cycle parking alongside Manly Wharf Hotel

Description	Unit	Quantity	Rate	Cost
Concrete slab + sub base	m ²	36m x 1.7m = 61m ²	\$ 105	6,400
Racks (supplied and installed)	number	12	\$ 990	12,000
Reinstall existing racks	m	25	\$ 200	5,000
Total				\$24,400

Conclusions

1. Additional cycle parking will be required at Manly Wharf within the next few years to meet growing demand for cycling. Cycle parking is essential infrastructure for promoting cycling as a sustainable alternative to car use.
2. Two (2) proposals for increasing cycle parking at the wharf are suggested in this report:

- Proposal 1 - A new East Esplanade cycle parking station using a portion of a less used grassed area at the western end of East Esplanade. An area of approximately 7m by 16m could provide parking for up to 100 bicycles on high density cycle racks.
- Proposal 2 - Reconfiguring the existing cycle parking alongside Manly Wharf Hotel to provide up to 160 cycle parking spaces in double decker cycle parking racks (option 1) or 148 cycle parking spaces in rearranged high density cycle racks (option 2). Both of these options would not impact on the width of footway currently available. However, both these options would require the removal and concreting of the garden bed adjacent to the wharf carpark entry ramp wall.

3. The cost to implement various combinations of proposals 1 and 2 are presented in Table 4 below:

Table 4 - Cost and number of cycle parking spaces summary

Proposal	Total Additional Spaces	Total Cost
Proposal 1: 100 spaces at western end of East Esplanade.	100	\$ 36,100
Proposal 2 option 1: Replace existing high density cycle racks with double decker cycle racks.	60	\$108,400
Proposal 2 option 2: Reconfigure existing high density racks to provide 12 additional racks.	48	\$24,400
Proposal 1 and Proposal 2 with option 1: (assumes existing racks reused for proposal 1).	160	\$124,500
Proposal 1 and Proposal 2 with option 2: Build a new cycle station at the end of East Esplanade and reconfigure existing racks alongside Manly Wharf Hotel.	148	\$60,500

RECOMMENDATION

It is recommended that the General Manager note the need for upgrading cycle parking at the wharf and seek funding from the state Active Transport Fund for improved facilities at this key travel interchange for the Northern Beaches.

ITEM 09 *Cycle Parking - Australian Standards (ITEM 09, 08/10/2015)*

SUMMARY

For Council to note the release of an Australian Standard on cycle parking.

REPORT

Australian Standards has recently released the national standard for cycle parking AS 2890.3: 2015 – *Parking Facilities Part 3: Bicycle parking*. This standard complements the existing Australian Standards for vehicle parking.

The new cycle parking standard provides advice and directions for cycle parking, including:

- Dimension requirements for cycle rack, cycle parking rails and lockers
- Dimension requirements for various cycle types such as children's bikes, tandem cycles, cargo bikes and recumbents
- Dimensions for cycle lockers and cages
- Cycle parking on footways
- Cycle parking in parking spaces
- Vertical cycle parking
- Radial cycle parking
- Multi-tier cycle racking system

It may be of interest to the committee that the standard advises that Multi-tier racking systems are best used at staffed bicycle parking stations.

RECOMMENDATION

The General Manager notes that there is a new Australian Standard for Cycle Parking