

ENCOUNTER BIKEWAY FINAL CONCEPT REPORT

ALEXANDRINA COUNCIL
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Section 1

Background

The Encounter Bikeway, located on South Australia's Fleurieu Peninsula, is an on-road and off-road shared-use trail that links the coastal city of Victor Harbor and the river port town of Goolwa, via the coastal towns of Port Elliot and Middleton.

The Alexandrina Council has commissioned this concept report to explore options for the improvement of the route within the Council area, to cater for the increasing popularity of the Bikeway.

The proposed upgrade aims to elevate the profile of the Bikeway and attract visitors to the region by enhancing the Bikeway alignment and linking to key tourist destinations, while also improving safety, accessibility and amenity for users.

The region has plenty to offer visitors including a great variety of options for accommodation, fantastic food and wine, surf beaches, bushwalking and much more. The Bikeway upgrades will enhance and stimulate socio-economic development in the area.

A range of riding distances are available, making it suitable for all ages and levels of fitness. The Bikeway is suitable to be used by cyclists, walkers, skaters, rollerbladers and is wheelchair accessible.

The portion that is identified within the scope of this concept plan is approximately 21.5km in length and commences at Laffins Point in Goolwa North (intersection of Liverpool Road and Howell Street) and terminates at the Alexandrina Council boundary with Victor Harbor Council along Seagull Avenue in Chiton.



Section 2

Consultation

The existing Bikeway was reviewed, and draft concept plans were prepared for 9 sections of the Bikeway in the Alexandrina Council area. For each section a variety of upgrades were proposed including route realignment options, new off road or enhanced on road bikeways, intersection safety improvements and bridge upgrades.

Council engaged with community and stakeholders to understand the level of support for each of the upgrade options for each section of the Bikeway in the Alexandrina Council area.

The Engagement Report (Appendix A) summarises the engagement undertaken and its results.

Engagement Process

The engagement sought feedback to understand the level of community and stakeholder support for the different upgrade options in the draft Concept Plans prepared for each section of the Encounter Bikeway in the Alexandrina Council area.

The engagement was undertaken between 16 May and 13 June 22 and included:

1. Drop in sessions at which the community could drop-in, view the plans, ask questions of the design team and fill in a hard copy survey:
 - 20 May 12-3pm Goolwa Library
 - 21 May 1-4pm Chiton Rocks Surf Life Saving Club
2. Online survey on Council's Your Say Page (www.mysay.alexandrina.sa.gov.au/encounterbikeway).

The draft Concept Plans were available to view from the Council's Your Say page and were on display in the Goolwa Library from 22 May to 13 June 2022.

The engagement was also promoted through:

- Temporary signage established at key points along the Bikeway

Finalisation of Concept Designs

The Bikeway concept plans have been finalised following the community and stakeholder engagement. The updates to the plans have been based on this engagement with final proposals aligning with strong community and stakeholder feedback.

The length of the Bikeway within Alexandrina Council has been divided into 33 seperable sections, envisioned as potential packages of works to be delivered in the future. Estimates of Probable Cost are provided for each of these 33 sections.



Civil Design, Safety & Compliance

Project Wide Summary

The Encounter Bikeway project proposes significant increases to the safety and enjoyment to cyclists and pedestrians along the Encounter Bikeway. Where possible, cyclists should be completely removed from possible conflicts with vehicles. Recommendations such as boardwalks adjacent to Surfers Parade at Middleton, Basham Parade at Horseshoe Bay and Ocean Parade at Middleton Point, will successfully remove this exposure to collisions. Altering routes, such as taking the path along the shoreline at Chiton Rocks or at Freeman Lookout is also a successful example of this outcome. Where not possible to remove cyclists from roads, clear linemarking and signage must be present in order to provide all road users with the expectation that conflicts may occur, and to be aware of these. Low volume roads, containing little parking volumes and/or turnover with wider carriageways are preferred in the selection of options.

Enhanced Existing On-Road Bikeway

There exists a range of sections on the Encounter Bikeway where constraints will mean that cyclists will be required to share the road with other vehicles. In these cases, an 'enhanced' on-road bikeway is proposed. The enhanced bikeway should limit areas where the road width is not enough to accommodate for a vehicle and a cyclist. This would involve limiting parking on one side of the road or choosing roads with larger widths. Where given the opportunity, roads with lower traffic volumes should be considered. "Sharrow" linemarking should be implemented. Clear signage for vehicles, such as G9-57A 'Watch for Bicycles' signage (see below), should be present.

Recommendations:

- Select roads with wider carriageways and low volume traffic
- Limit parking
- Sharrow linemarking
- "Watch for Bicycles" signage



Carpark Crossover

Many carparks along the path have been identified as a particularly dangerous sections of the Encounter Bikeway, due to the close proximity of vehicles and cyclists. Vehicles and cyclists enter the carpark from different areas and drivers/cyclists not paying proper attention will likely cause collisions. Attempts should be made to reduce the speed of vehicles, such as utilising a raised intersection to slow both cyclists and vehicles entering and leaving the carpark (should be utilised at Surf Street) or outlining clearly with linemarking and signage who must give way when these intersections occur. Parking spaces should be properly linemarked or contain wheel stops to formalise the parking area. Separation from the carpark is

preferred either physically or using clear linemarking. Sight distances to intersections, at carparks such as Surf Street should be increased.

Recommendations:

- Separate cyclists from vehicles
- Increase sight distances through vegetation removal
- Formalise parking spaces with linemarking or wheel stops
- Slow vehicles with bumps or raised platforms



Unsafe conditions at Surf Street Middleton

Pavement Condition

There are sections of pavement throughout the path where the opportunity should be taken to re-lay the surface. Sections of path, such as between Scrymgour Road and the Holiday Park access road, or between Ocean Road and New Road already have significant crack sealing, but still have existing cracks and significant tree root damage. Aside from poor aesthetic, the range of cracking indicates that sections path should be re-layed to avoid cyclists having an uncomfortable and/or unstable ride in the near future.

Recommendations:

- Re-lay pavement in selected areas



Deteriorated surface at Port Elliot

Bikeway Grades

There is a significant constraint in sections of the path where gradient exceeds what would be considered comfortable for cyclists. This may include section on Surfers Way, Ocean Parade, Ocean Road, Investigator Carpark, and Strangways Tce. Many of these slopes are also dangerous when travelling downhill. At the Investigator Carpark, Strangways Tce, and Surfers Way, there is a risk of vehicle collisions on these downhill sections with intersections and parked vehicles present at the bottom of these slopes. The sharp left turn from Ocean Road onto the bike path may also cause collisions between hand railing and cyclists travelling at speed. The very nature of following the natural landscape makes this difficult to resolve, however where possible, these sections of road/path should be avoided.

Recommendations:

- Look for alternative routes where possible, to avoid significant slopes.



Existing steep section at Middleton Point



Steep alignment at Middleton Beach

Socio-economic Benefits Assessment

The Encounter Bikeway is a key part of the Southern Fleurieu Peninsula's recreational and tourism offer. Covering a distance of some 30km and linking the important coastal townships of Victor Harbor, Port Eliot, Middleton and Goolwa, it provides opportunities for both residents and tourists to experience the picturesque coastline and views to the hinterland, providing users with a connection to nature and opportunities to link in with other nature based recreational activities, lifestyle and tourism offerings along it's length.

Benefits to Tourism and Economy

The Fleurieu Peninsula is one of South Australia's premier destinations for local, interstate and international tourism with an estimated 3 million combined day and overnight visits per year and an estimated \$493mil in visitor spend as at December 2019. According to the South Australian Regional Visitor Strategy published by SA Tourism, the potential growth in expenditure has the potential to rise to \$643mil by the end of 2025. It is worth noting that a progress snapshot of the regions spend for the year ending December 2021 there was a total of \$663 mil in visitor spend from a total of \$3.5mil visitors. This alludes to the very real potential that the growth of the tourism market across the peninsula will substantially exceed projected targets.

Key strategic priorities relating to the Encounter Bikeway that have been identified to encourage year round visitation and increase visitor spend are focused on providing enhanced visitor experience and marketing. Specifically, the following strategies have been set;

- Enhance existing experiences with a focus on food and drink, adventure, nature and wildlife, arts and culture, wellness, coastal and aquatic themes.
- Support tourism developments which match the aspirations of their communities
- Develop appealing nature-based walking and cycling trail infrastructure.

(source: SA Tourism Regional Visitor Strategy, February 2021)

Based on this assessment of the wider region, it is clear that the Encounter Bikeway will support economic uplift driven by increased visitation that will;

- Provide opportunities for leveraging businesses aligned with the bikeway including bike hire companies, tourism operators, food and drink establishments in the vicinity of the bikeway
- Create higher demand for use of the bikeway through enhanced amenity and accessibility.

Benefits to Improving Health and Wellbeing

Launched in February 2021, the Alexandrina Strategic Plan A2040 articulates a strong vision for the community to thrive which is Livable, Green and Connected. The Encounter Bikeway has the ability to

influence all three of these key objectives through providing amenity to residents via an experiential pathway that connects places of interest and the communities that live within the City as well as to promote alternative active transport for increased health and wellbeing.

At the broad community level, it is widely known that among the main benefits of visiting natural areas are the development of community stewardship/custodianship, sense of belonging and opportunities for community connections and positive mental wellbeing outcomes. Furthermore, in South Australia social interaction is a key motivation for nearly one third of those who take part in recreation and sport, while simply being outdoors or enjoying nature is a top motivation for 14% of people.*

Research that demonstrates the value of nature for mental health should lead to the creation of resources to support well-being in nature. The design of built infrastructure can influence the experience providing a link to quiet places and off-trail sites for exploration.

In addition, there is an exciting opportunity to interpret the important pre and post-colonial history associated with various sites along the length of the trail, providing educational benefits and further enriching the unique sense of place and connection that people have with this unique coastal location.

Benefits to Promoting Physical Activity

The need to provide more opportunities for physical activity in open space emerges from the local strategic and planning framework and it is in line with some of the clearest trends in sport and recreation:**

- Australians are becoming more health conscious
- People are increasingly playing sport to get fit rather than getting fit to play sport
- People are also increasingly opting to go for a run or bike ride rather than commit to a regular organised activity.
- Health/fitness is the top motivation for people who participate in sport in South Australia (77%)
- In South Australia the top activities are recreational walking, fitness/gym, athletics including jogging and running, swimming, and cycling

However, since participation decreases with age and people aged 65 and over have the lowest participation rate, it is particularly important to plan for the needs of the area's growing older population.***

It is therefore important that the Bikeway is developed and enhanced to cater for universal access to meet the demands of an increasingly diverse population and demographic of bicycle and walking user groups.

*AusPlay Results 2017-18 (Sport Australia) <https://www.clearinghouseforsport.gov.au/research/smi/ausplay/results>

**The Future of Australian Sport (Australian Sporting Commission), and AusPlay Results 2017-18 (Sport Australia)

***Participation in Sport and Physical Recreation, Australia, 2013-14 (ABS)



Concept Plans



CP-01

Legend

- Preferred Bikeway Alignment
- Bikeway Option A
- New off-road Bikeway
- Enhanced on-road Bikeway
- Existing off-road Bikeway
- Existing on-road Bikeway route to be decommissioned
- Upgrade bridge structure
- Rail corridor
- Existing path connection
- Perspective view
- Cafe
- Car Parking
- Public Toilet

Average Daily Traffic Volumes (January 2022)

Location	Car	Heavy Vehicle	Cyclist	Pedestrian
1 Albatross (Second-Third)	84	13	4	NA
2 Albatross (Fourth-Fifth)	110	9	4	NA
3 Albatross (Butterfly-Sixth)	183	15	13	NA
4 Seagull (Second-Third)	426	59	113	NA
5 Seagull (Fifth-Fourth)	449	56	135	132
6 Seagull (Sixth-Fifth)	623	50	95	NA
7 Seagull (Sixth-New)	277	40	127	226
8 Ocean Rd (Midblock)	359	60	152	NA
9 Foreshore	NA	NA	NA	79



Chiton Rocks to Watson Gap

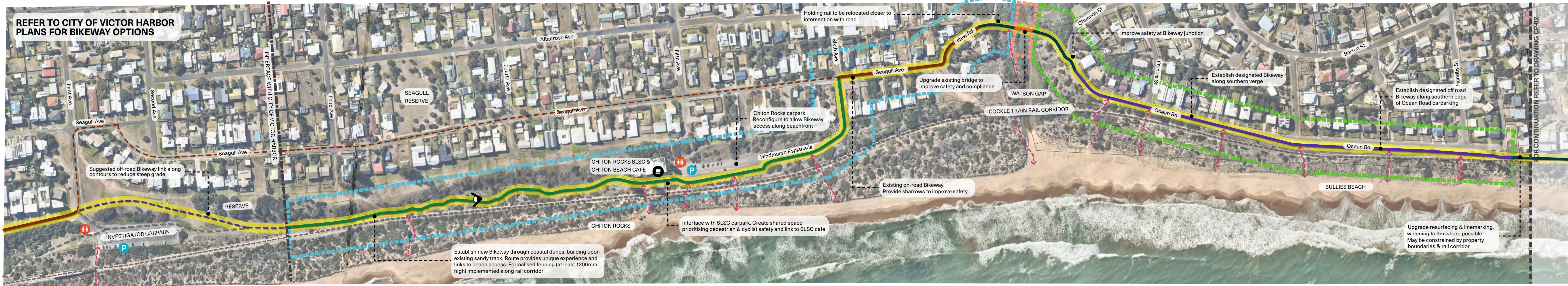
Consultation Outcome	71% in favour of Option A - new Bikeway along existing track through coastal dunes. This aligns with City of Victor Harbor Council consultation findings.
Reasons Provided	<ul style="list-style-type: none"> Concern about safety of pedestrians and cyclists on Seagull Avenue Natural extension of an existing path along the rail corridor Attracts customers to the Surf Life Saving Club Heightened experience for riders (views, coastal) Path is separated from cars improving safety
Future Considerations	<ul style="list-style-type: none"> Collaboration with City of Victor Harbor's outcomes and project delivery Interfacing with SteamRanger rail corridor, provide fencing and access to beaches. Consultation with DIT and stakeholders Potential vegetation removal; Consultation with Coast Protection Board (DEW) and Native Vegetation Council (DEW) Cultural heritage protection; Consultation with Ngarrindjeri Aboriginal Corporation (NAC) Interface with SLSC; Consultation with stakeholders Undertake geotechnical testing of the area to inform engineering design
Cost (ex. GST)	\$513,700 + GST

Watson Gap Bridge

Consultation Outcome	70% in favour of upgrading the Watson Gap Bridge.
Reasons Provided	<ul style="list-style-type: none"> Dilapidated condition, in need of renewal Narrow, overly steep gradients, difficult to navigate entry points Provide a non-slip surface and lighting
Future Considerations	<ul style="list-style-type: none"> Development approval of bridge (PlanSA)
Cost (ex. GST)	\$239,510 + GST

Watson Gap to Bullies Beach

Consultation Outcome	Evenly divided opinion on Ocean Road off-road section
Reasons Provided	<ul style="list-style-type: none"> Concerns raised for damage to vegetation. Minimal safety gains as low traffic volumes. Undesirable additional cost for little gain
Future Considerations	<ul style="list-style-type: none"> Interfacing with SteamRanger rail corridor along Ocean Rd. Consultation with DIT and stakeholders Potential vegetation removal along Ocean Rd; Consultation with Coast Protection Board (DEW) and Native Vegetation Council (DEW). Cultural heritage protection; Consultation with Ngarrindjeri Aboriginal Corporation (NAC).
Cost (ex. GST)	\$389,675 + GST



DUMP BEACH

CHITON ROCKS

BULLIES BEACH

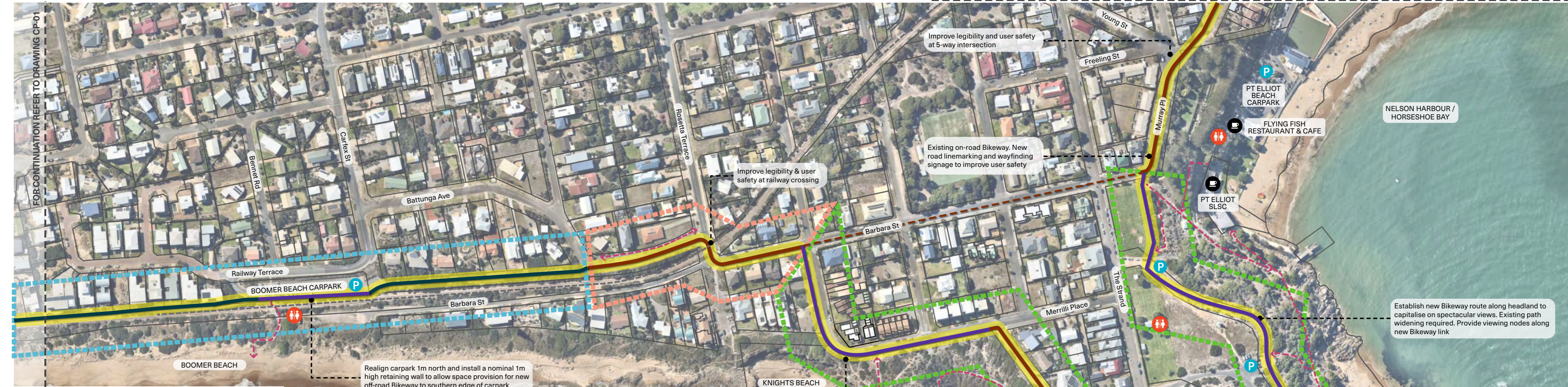
CP-02

Legend

- Preferred Bikeway Alignment
- Bikeway Option A
- New off-road Bikeway
- New / enhanced on-road Bikeway
- Existing on-road Bikeway route to be decommissioned
- Existing off-road Bikeway
- Rail corridor
- Existing path connection
- Perspective view
- Cafe
- Car Parking
- Public Toilet

Average Daily Traffic Volumes (January 2022)

Location	Car	Heavy Vehicle	Cyclist	Pedestrian
10 Murray (South End)	249	17	12	523
11 Freeling (East)	109	6	3	523
12 Young (East)	212	18	4	523
13 Murray (North End)	773	80	112	523
14 Strangways (Before Int)	982	65	46	523
15 Barbara (Merrilli-Rail)	1118	82	177	NA



Boomer Beach	
Consultation Outcome	Low number of responses mixed in with adjoining sections.
Reasons Provided	<ul style="list-style-type: none"> • Path needs resurfacing and widening • Path is close to railway tracks, fencing or realignment to be considered
Future Considerations	<ul style="list-style-type: none"> • Interfacing with SteamRanger rail corridor
Cost (ex. GST)	\$276,560 + GST

Knights Beach (Battunga Avenue and Barbara Street)	
Consultation Outcome	41% support for enhancing on-road Bikeway links.
Reasons Provided	<ul style="list-style-type: none"> • Provide additional separation between cars and cyclists
Future Considerations	<ul style="list-style-type: none"> • Interfacing with the railway crossing
Cost (ex. GST)	\$30,960 + GST

Knights Beach (Hutton Street and Merrill Place) and Port Elliot Headland	
Consultation Outcome	85% preferred Option A new link along embankment contour 60% support for new off-road Bikeway links 69% support for enhancing on-road Bikeway links.
Reasons Provided	<ul style="list-style-type: none"> • Coastal views • The boardwalk • Clear weeds and plant natives • Utilises the existing on-road bikeway and maintains existing pedestrian-only zone • Concerns of high number of cyclists clashing with pedestrians
Future Considerations	<ul style="list-style-type: none"> • Potential vegetation removal; Consultation with Coast Protection Board (DEW) and Native Vegetation Council (DEW) application • Cultural heritage protection; Consultation with Ngarrindjeri Aboriginal Corporation (NAC) and Heritage SA (DEW) • Development approval of boardwalk and shelter structures (PlanSA)
Cost (ex. GST)	\$1,161,915 + GST

HORSESHOE BAY

PORT ELLIOT HEADLAND

BOOMER BEACH / KNIGHTS BEACH

PORT ELLIOT HEADLAND



CP-03

Legend

- Preferred Bikeway Alignment
- Bikeway Option A
- New off-road Bikeway
- New / enhanced on-road Bikeway
- Existing on-road Bikeway route to be decommissioned
- Existing off-road Bikeway
- Improve intersection safety
- Rail corridor
- Existing path connection
- Perspective view
- Cafe
- Car Parking
- Public Toilet



Horseshoe Bay - Basham Parade	
Consultation Outcome	92% preferred Option A designated off-road bikeway.
Reasons Provided	<ul style="list-style-type: none"> Because it is off-road it separates vehicles and shared path users Provides good views Goes past the caravan park
Future Considerations	<ul style="list-style-type: none"> Development approval of boardwalk (PlanSA) Extensive construction
Cost (ex. GST)	\$1,991,015 + GST

Horseshoe Bay - Ratalang / Basham Beach South	
Consultation Outcome	Comments provided to widen and improve surface.
Reasons Provided	<ul style="list-style-type: none"> Trees roots encroaching into existing path creating bumps
Future Considerations	<ul style="list-style-type: none"> Adjacent vegetation clearance to widen and resurface
Cost (ex. GST)	\$168,025 + GST

Horseshoe Bay - Strangeways Terrace	
Consultation Outcome	56% support for upgrade to intersections. 40% support for proposed enhanced on-road Bikeway with 48% neutral/unsure.
Reasons Provided	<ul style="list-style-type: none"> To improve safety
Future Considerations	<ul style="list-style-type: none"> Integration with footpath network and vehicle parking requirements
Cost (ex. GST)	\$115,050 + GST





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RATALANG/ BASHAM BEACH

MIDDLETON SOUTH

Ratalang / Basham Beach

Consultation Outcome	84% supported intersection upgrades. Preference to retain the existing off-road shared-use path for Bikeway users and retain the existing compacted rubble track for pedestrians and nature. Support for additional rest spots.
Reasons Provided	<ul style="list-style-type: none"> To improve user safety The enhanced off-road Bikeway would provide options and less congestion for riders and walkers. Current unsealed path is enjoyed as a nature walking trailaway from cyclists This location is a Ngarrindjeri sacred place
Future Considerations	<ul style="list-style-type: none"> Potential vegetation removal; Consultation with Coast Protection Board (DEW) and Native Vegetation Council (DEW). Cultural heritage protection; Consultation with Ngarrindjeri Aboriginal Corporation (NAC)
Cost (ex. GST)	\$430,690 + GST

Ratalang / Basham Beach - Bridge Upgrade

Consultation Outcome	81% supported bridge upgrade.
Reasons Provided	<ul style="list-style-type: none"> Bridge in dilapidated condition, in need of renewal
Future Considerations	<ul style="list-style-type: none"> Potential vegetation removal; Consultation with Coast Protection Board (DEW) and Native Vegetation Council (DEW). Cultural heritage protection; Consultation with Ngarrindjeri Aboriginal Corporation (NAC).
Cost (ex. GST)	\$250,250 + GST

Middleton South

Consultation Outcome	Neutral responses
Reasons Provided	<ul style="list-style-type: none"> Wider path allows safer passing of cyclists and pedestrians
Future Considerations	<ul style="list-style-type: none"> None
Cost (ex. GST)	\$189,475 + GST

CP-05

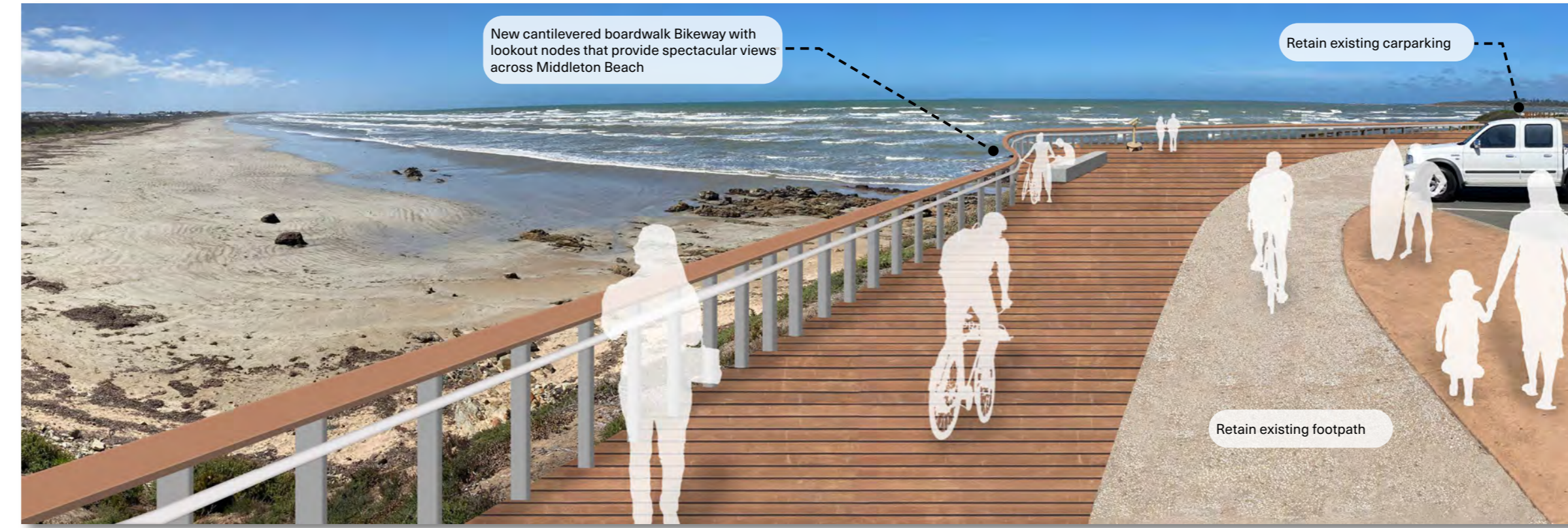
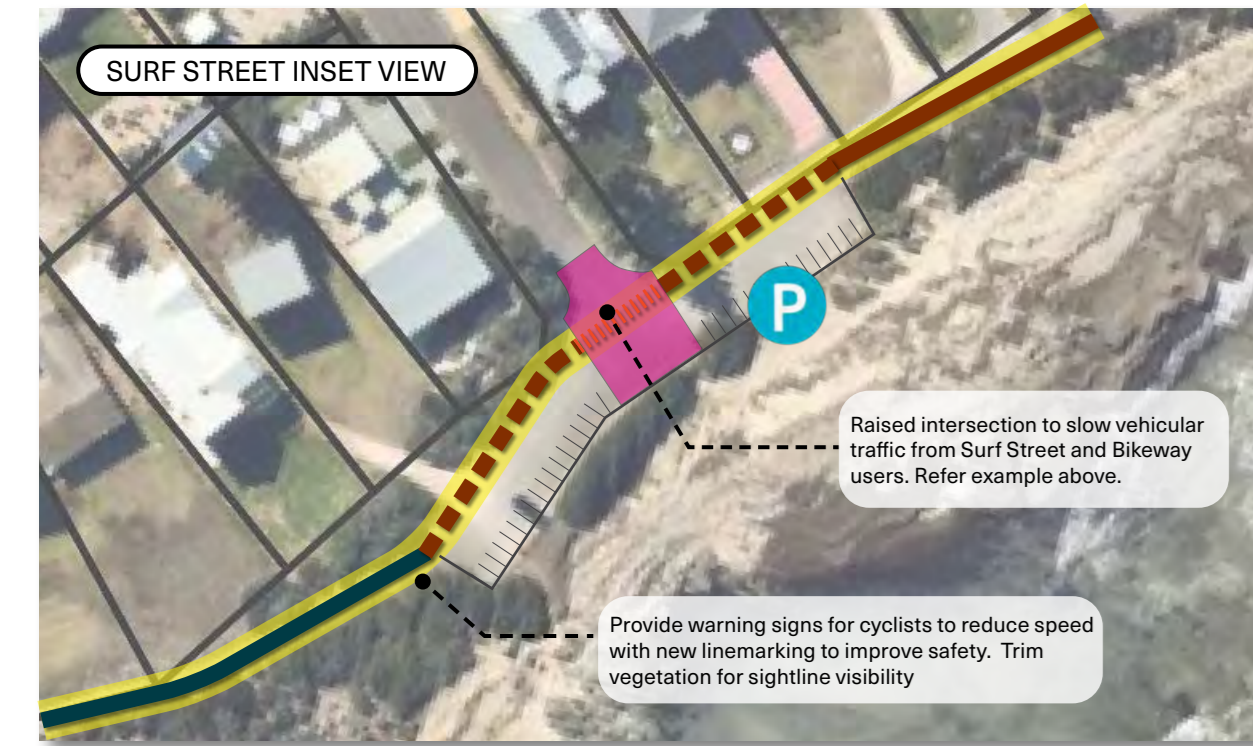
Legend

	Preferred Bikeway Alignment		Improve intersection safety
	Bikeway Option A		Rail corridor
	New off-road Bikeway		Existing path connection
	New / enhanced on-road Bikeway		Perspective view
	Existing on-road Bikeway route to be decommissioned		Cafe
	Existing off-road Bikeway		Car Parking
	Upgrade bridge structure		Public Toilet



Average Daily Traffic Volumes (January 2022)

Location	Car	Heavy Vehicle	Cyclist	Pedestrian
16 Surf (Midblock)	107	6	1	NA
17 Dover (Midblock)	574	86	62	48
18 Ocean Pde (West Carpark)	508	45	81	406
19 Esplanade (Coote-Padman)	330	29	101	NA
20 Surf (Bike Path)	283	42	184	NA



Middleton - Surf Street

Consultation Outcome	58% support for improving intersection safety
Reasons Provided	<ul style="list-style-type: none"> Improve safety by reducing the conflict of cyclists and pedestrians with cars in the carpark
Future Considerations	<ul style="list-style-type: none"> Potential vegetation removal; Consultation with Coast Protection Board (DEW) and Native Vegetation Council (DEW) Cultural heritage protection; Consultation with Ngarrindjeri Aboriginal Corporation (NAC)
Cost (ex. GST)	\$205,855 + GST

Middleton Point - Ocean Parade

Consultation Outcome	74% preferred Option A designated bikeway alignment along Ocean Parade.
Reasons Provided	<ul style="list-style-type: none"> The cantilevered section around Middleton Point providing views Bikeway stays along the coast Reduces conflict between cars and cyclists Some concern about the cost of the cantilevered boardwalk and adding additional cycle traffic to an already busy area.
Future Considerations	<ul style="list-style-type: none"> Potential vegetation removal; Consultation with Coast Protection Board (DEW) and Native Vegetation Council (DEW) Cultural heritage protection; Consultation with Ngarrindjeri Aboriginal Corporation (NAC) Development approval of boardwalk (PlanSA)
Cost (ex. GST)	\$2,359,110 + GST

Middleton - Higgins Terrace

Consultation Outcome	48% support for enhanced on-road bikeway. 35% neutral or unsure.
Reasons Provided	<ul style="list-style-type: none"> Opportunity to widen and reduce conflict between cyclists and walkers
Future Considerations	<ul style="list-style-type: none"> Integration with existing footpath network and road users
Cost (ex. GST)	\$28,240 + GST

Middleton - Mill Terrace and Esplanade

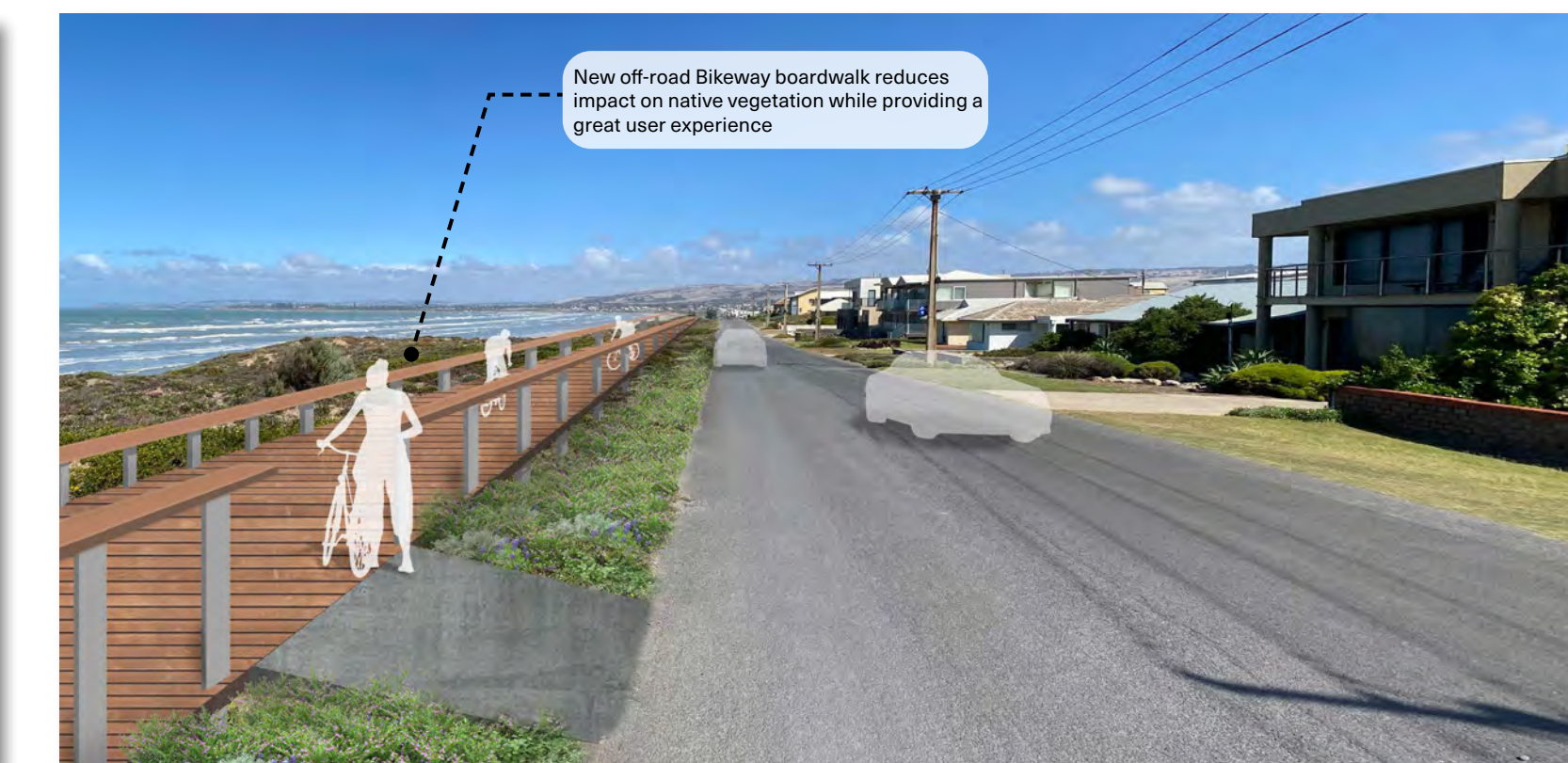
Consultation Outcome	58% support for improving intersection safety. 57% support for new off-road Bikeway sections.
Reasons Provided	<ul style="list-style-type: none"> Opportunity to widen and reduce conflict between cyclists and walkers Suggestion that roads along Mill Terrace and the Esplanade are not busy enough for there to be conflict between cyclists and cars.
Future Considerations	<ul style="list-style-type: none"> None
Cost (ex. GST)	\$416,845 + GST

Middleton - Mill Terrace Reserve Bridge

Consultation Outcome	71% support for upgrade of the bridge
Reasons Provided	<ul style="list-style-type: none"> Bridge in dilapidated condition, in need of renewal
Future Considerations	<ul style="list-style-type: none"> Development approval of boardwalk (PlanSA) Construction in/adjacent to a water course.
Cost (ex. GST)	\$207,350 + GST

Middleton Beach - Esplanade to Surfers Parade

Consultation Outcome	Majority of positive comments to widen existing paths.
Reasons Provided	<ul style="list-style-type: none"> Opportunity to widen and reduce conflict between cyclists and walkers
Future Considerations	<ul style="list-style-type: none"> None
Cost (ex. GST)	\$195,550 + GST



Average Daily Traffic Volumes (January 2022)

Location	Car	Heavy Vehicle	Cyclist	Pedestrian
21 Surfers (Miami-Rutlie)	564	78	113	NA
22 Newell (Waiki-Tahti)	474	70	124	NA
23 Kightley (Akins)	481	71	109	80
24 Reed (Midblock)	258	16	8	NA
25 Peds (Redcliff Entrance)	NA	NA	NA	51
26 Peds (Goat Track - Redcliff)	NA	NA	NA	97
27 Surfers (Day-Chapman)	1388	153	165	105



Surfers Parade

Consultation Outcome	77% support upgrade intersections. 61% support for new boardwalk along Surfers Parade.
Reasons Provided	<ul style="list-style-type: none"> Upgrades would improve user safety Concern about conflict between cyclists, walkers, cars and surfers along Surfers Parade. Suggestion to keep pedestrians and cyclists separated. Suggestions for Surfers Parade to be one way and underground powerlines to provide more space for managing bikes, pedestrians and cars. Suggestion for on-road bikeway to Miami Boulevard instead of Waiki Way. Concern about impact to the dunes with boardwalk option.
Future Considerations	<ul style="list-style-type: none"> Potential vegetation removal; Consultation with Coast Protection Board (DEW) and Native Vegetation Council (DEW) Cultural heritage protection; Consultation with Ngarrindjeri Aboriginal Corporation (NAC) Development approval of boardwalk (PlanSA) Consultation with adjacent property owners.
Cost (ex. GST)	\$3,831,580 + GST

Goolwa Beach - Waiki Way to Andrew Avenue

Consultation Outcome	49% support for enhanced on-road Bikeway 27% were neutral / unsure.
Reasons Provided	<ul style="list-style-type: none"> Improve on-road safety Fix gravel corner at Andrew Ave
Future Considerations	<ul style="list-style-type: none"> Consultation with adjacent property owners
Cost (ex. GST)	\$115,115 + GST

Goolwa Beach - Tokuremoar Reserve

Consultation Outcome	78% support upgrade of the bridge.
Reasons Provided	<ul style="list-style-type: none"> Bridge in dilapidated condition, in need of renewal
Future Considerations	<ul style="list-style-type: none"> Construction complications in a flood plain/water course Vegetation clearance for access and construction
Cost (ex. GST)	\$961,530 + GST

Goolwa Beach - Kightley Road

Consultation Outcome	68% preferred Option A upgrade existing on-road bikeway or footpath along Kightley Road.
Reasons Provided	<ul style="list-style-type: none"> Enhances use and safety of the area for pedestrians and cyclists Cost effective and least invasive of the natural landscape Cyclists still have the option of utilising the existing gravel path across the flood plain Concerns that Kightley Road can be busy and dangerous for recreational cyclists during peak periods Other options would disturb local wildlife and be intrusive to adjacent households
Future Considerations	<ul style="list-style-type: none"> None
Cost (ex. GST)	\$204,090 + GST

CP-06

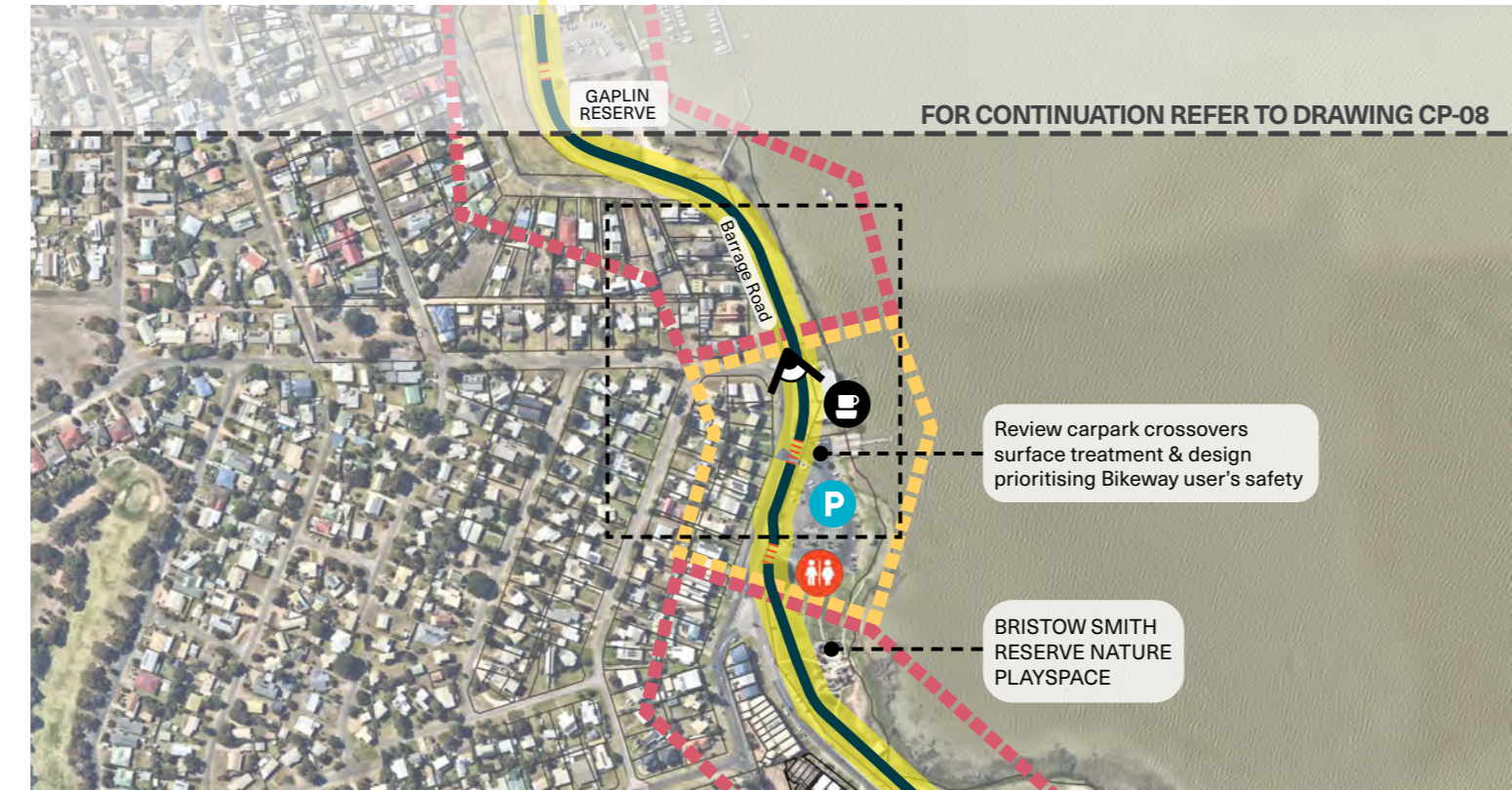
Legend

- Preferred Bikeway Alignment
- Bikeway Option A
- New off-road Bikeway (Boardwalk)
- New off-road Bikeway
- New / enhanced on-road Bikeway
- Existing off-road Bikeway
- Improve intersection safety
- Rail corridor
- ↔ Existing path connection
- Perspective view
- Cafe
- Car Parking
- Public Toilet



GENERAL NOTES:
BEACH ACCESS CARPARKS
 Resurface and/or formalise car parking. Further design development required at each distinct car parking area including the design of interface with Bikeway
SIDE STREETS
 Review junctions with adjoining streets to ensure safe access onto Bikeway

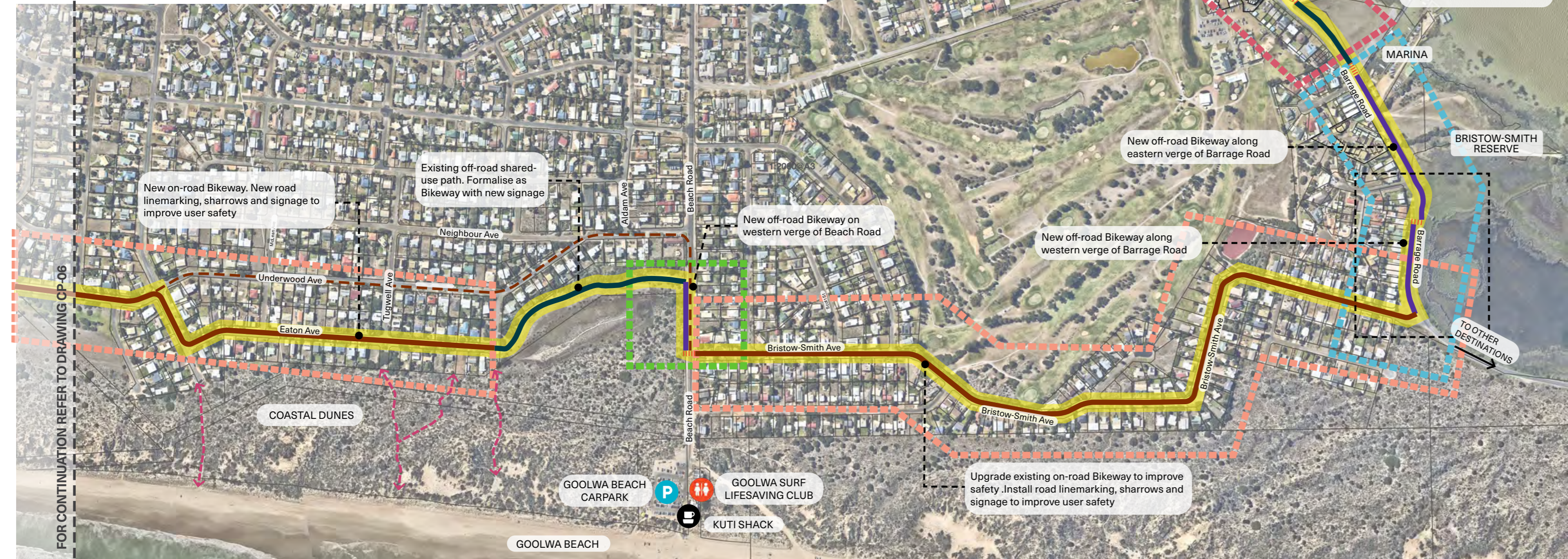
Lookout carpark. Provide new asphalt surface, formalise parking and upgrade safety barrier infrastructure. Provide new viewing node/ Bikeway rest area with spectacular views



CP-07

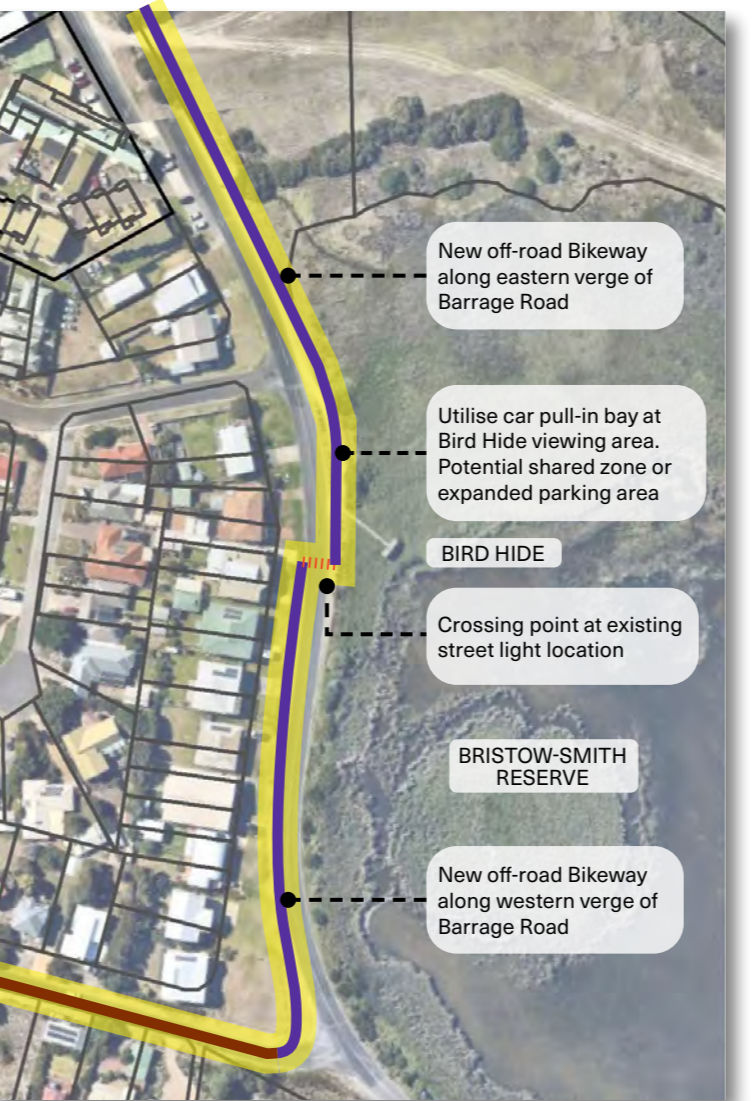
Legend

- Preferred Bikeway Alignment
- New off-road Bikeway
- New / enhanced on-road Bikeway
- Existing on-road Bikeway route to be decommissioned
- Existing off-road Bikeway
- Improve intersection safety
- ↔ Existing path connection
- Perspective view
- Cafe
- Car Parking
- Public Toilet



GOOLWA BEACH

BARRAGE ROAD



Goolwa Beach - Enhance Existing On-road Bikeway

Consultation Outcome	62% supported enhancing the existing on-road Bikeway
Reasons Provided	<ul style="list-style-type: none"> • On road nothing much to see • Traffic, gradient and sightlines not favourable • Reduce conflict with traffic.
Future Considerations	<ul style="list-style-type: none"> • Integration with road users and footpath network development
Cost (ex. GST)	\$168,740 + GST

Goolwa Beach - Beach Road

Consultation Outcome	88% supported new off-road Bikeway
Reasons Provided	<ul style="list-style-type: none"> • Off road improves safety and low elevation is easy for kids • Location on the western side of Beach Road is much safer
Future Considerations	<ul style="list-style-type: none"> • Potential vegetation removal
Cost (ex. GST)	\$236,810 + GST

Barrage Road - Bombora On The River

Consultation Outcome	86% supported intersection upgrades
Reasons Provided	<ul style="list-style-type: none"> • Off-road Bikeway improves safety near restaurants • Very dangerous for cyclists and pedestrians crossing from parked cars to the restaurant
Future Considerations	<ul style="list-style-type: none"> • Consultation with business and property owners • Interfacing with Barrage Road
Cost (ex. GST)	\$406,690 + GST

Barrage Road South

Consultation Outcome	88% supported new off-road Bikeway Suggestion that the bikeway should be extended to Beacon 19 and the Barrages as it is a significant local heritage site of the river. Suggestion to reduce vehicle speed limit at this location, and prioritising pedestrians and cyclists.
Reasons Provided	<ul style="list-style-type: none"> • Off road improves safety and low elevation is easy for kids
Future Considerations	<ul style="list-style-type: none"> • Potential vegetation removal; Consultation with Coast Protection Board (DEW) and Native Vegetation Council (DEW) • Cultural heritage protection; Consultation with Ngarrindjeri Aboriginal Corporation (NAC) • Interfacing with Barrage Road. Consultation with DIT
Cost (ex. GST)	\$416,990 + GST

Barrage Road North (Continues CP-08)

Consultation Outcome	86% supported intersection upgrades Suggestion to improve path radius at intersection with Riverside Drive. Suggestion to provide some crossovers across Barrage Road for access and connectivity.
Reasons Provided	<ul style="list-style-type: none"> • To improve safety
Future Considerations	<ul style="list-style-type: none"> • Integration of shared path with carpark entrances
Cost (ex. GST)	\$111,970 + GST

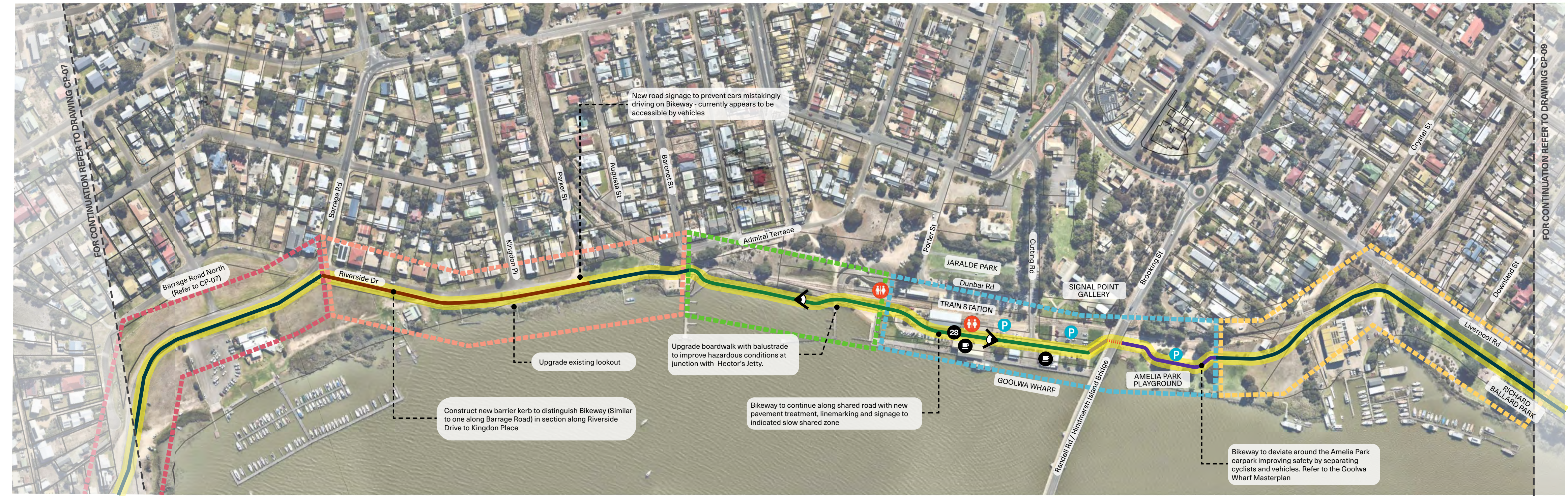
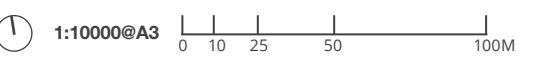
CP-08

Legend

- Preferred Bikeway Alignment
- Bikeway Option A
- New off-road Bikeway
- New / enhanced on-road Bikeway
- Existing on-road Bikeway route to be decommissioned
- Existing off-road Bikeway
- Improve intersection safety
- Rail corridor
- Existing path connection
- Perspective view
- Cafe
- Car Parking
- Public Toilet

Average Daily Traffic Volumes (January 2022)

Location	Car	Heavy Vehicle	Cyclist	Pedestrian
28 Wharf (Distillery)	471	25	42	437
29 Cutting (Midblock)	980	57	38	NA
30 Wharf (Beneath Bridge)	348	34	80	NA



Riverside Drive	
Consultation Outcome	65% support new off-road bikeway.
Reasons Provided	<ul style="list-style-type: none"> Improved user safety and reduced conflict with vehicles
Future Considerations	<ul style="list-style-type: none"> Interfacing with DIT roads & infrastructure. Consultation with DIT
Cost (ex. GST)	\$144,625 + GST

Goolwa Wharf - Boardwalk at Hector's Jetty	
Consultation Outcome	Multiple comments in favour of improving the alignment
Reasons Provided	<ul style="list-style-type: none"> There are sharp bends at the end of the pontoons connecting to Goolwa Wharf
Future Considerations	<ul style="list-style-type: none"> Development approval of boardwalk (PlanSA) Environmental Protection Agency (work over/in water)
Cost (ex. GST)	\$359,290 + GST

Goolwa Wharf	
Consultation Outcome	87% supported Option A with the Bikeway continuing along the shared road. 43% support upgrade to intersections. 65% support for the proposed off-road Bikeway at Amelia Park Playground
Reasons Provided	<ul style="list-style-type: none"> Elimination of the dangerous unpaved section through the parking lot just east of the Hindmarsh Island Bridge Safer for cyclists as Jaralde Park can get busy Brings cyclists to Wharf area Improved connectivity between boardwalk and paths A more direct route that avoids conflict with the train and steep grades New off-road Bikeway through Amelia Park removes conflict with motorists, particularly dangerous when vehicles are reversing
Future Considerations	<ul style="list-style-type: none"> Cohesion with the Goolwa Wharf Project
Cost (ex. GST)	\$514,085 + GST

Goolwa Wharf - Amelia Park Playground to Richard Ballard Park	
Consultation Outcome	Neutral responses
Reasons Provided	<ul style="list-style-type: none"> Existing shared path in good condition
Future Considerations	<ul style="list-style-type: none"> None
Cost (ex. GST)	\$37,040 + GST

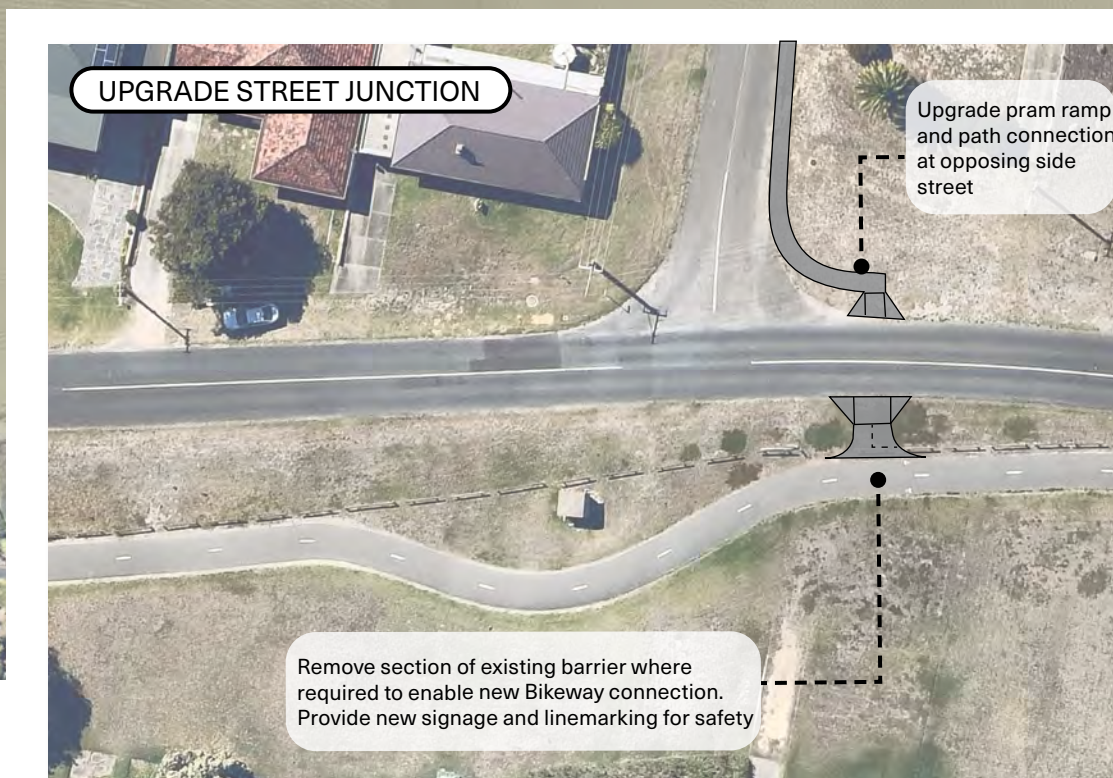
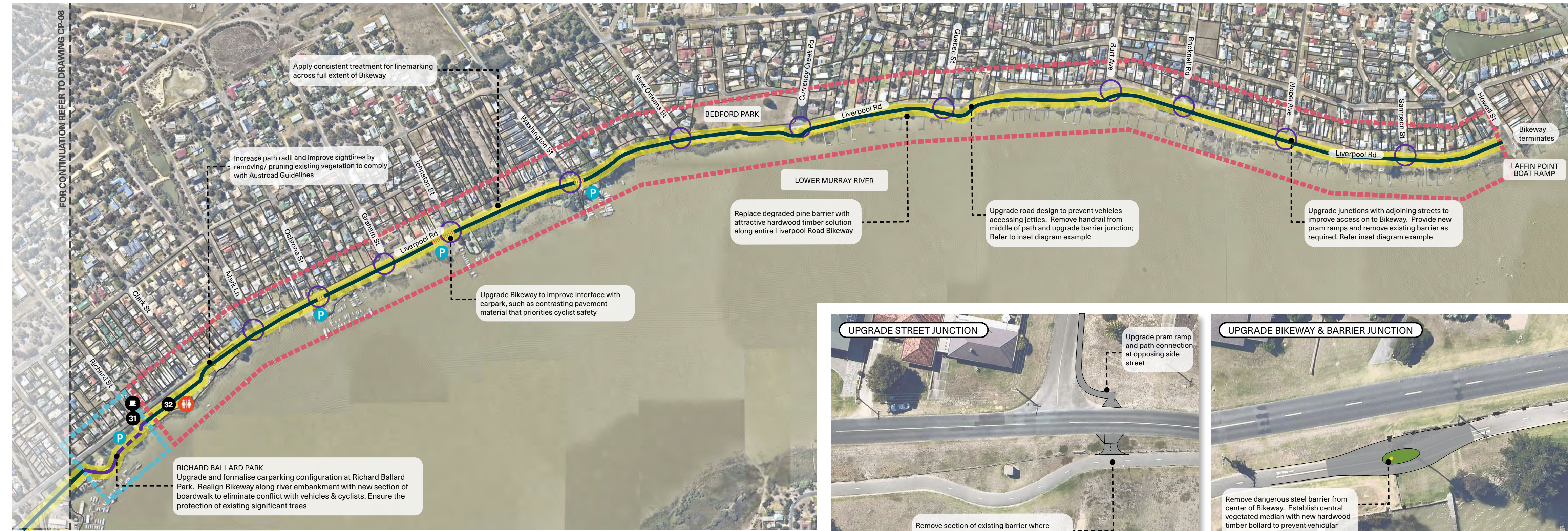
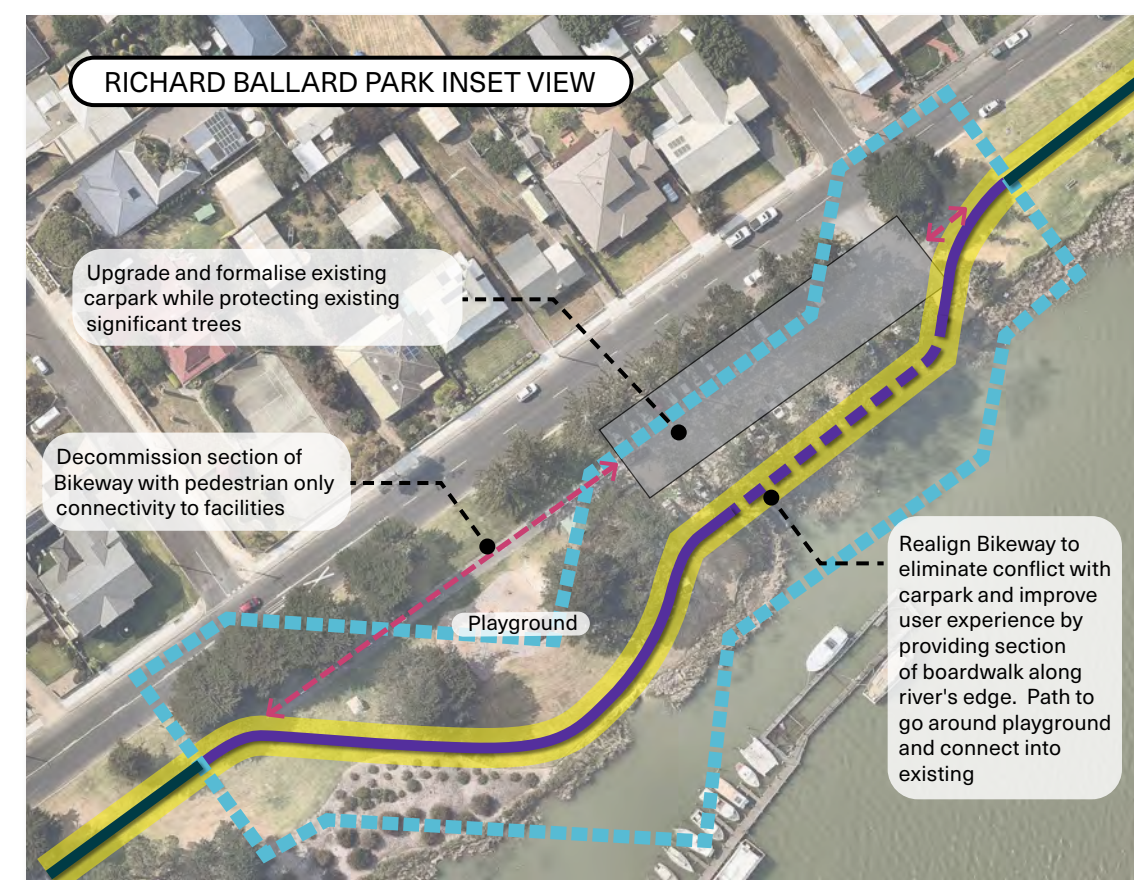
CP-09

Legend

- Preferred Bikeway Alignment
- Existing off-road Bikeway
- Improve intersection safety
- New off-road Bikeway
- New off-road Bikeway (Boardwalk)
- Upgrade junctions with adjoining streets
- Upgrade barrier junction
- Cafe
- Car Parking

Average Daily Traffic Volumes (January 2022)

Location	Car	Heavy Vehicle	Cyclist	Pedestrian
31 Richards (Carpark)	156	24	29	NA
32 Liverpool (Bike Path)	122	20	79	333



Richard Ballard Park	
Consultation Outcome	82% supported a new off-road boardwalk at Richard Ballard Park
Reasons Provided	<ul style="list-style-type: none"> Improves safety and access.
Future Considerations	<ul style="list-style-type: none"> Cultural heritage protection; Consultation with Ngarrindjeri Aboriginal Corporation (NAC) Significant Tree protection Development approval of boardwalk (PlanSA)
Cost (ex. GST)	\$511,450 + GST

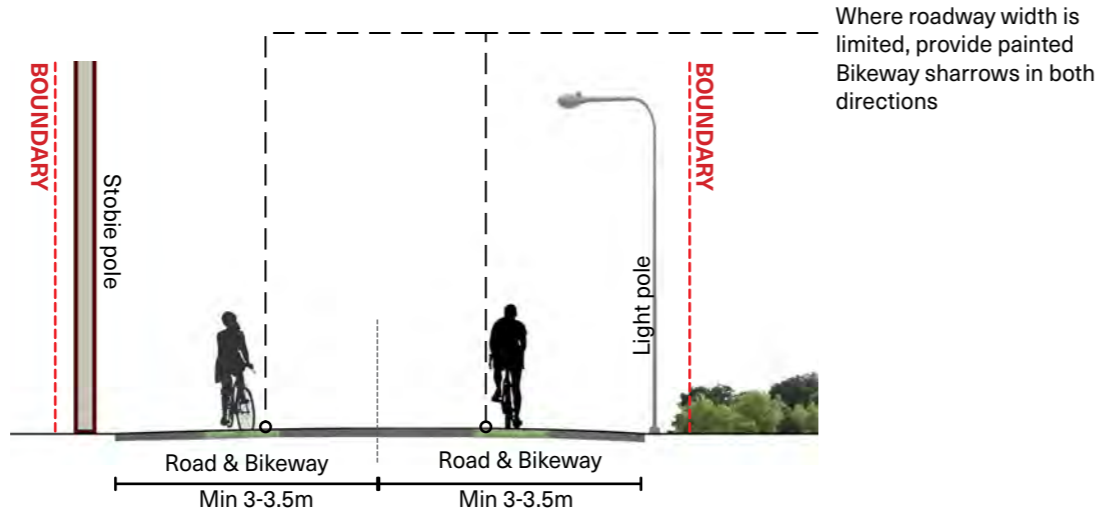
Liverpool Road	
Consultation Outcome	75% supported upgrade barriers. 81% supported upgrade street junctions. 90% supported upgrades at intersection.
Reasons Provided	<ul style="list-style-type: none"> Improves safety and access. Improve an already great section of the Bikeway
Future Considerations	<ul style="list-style-type: none"> Integration with footpath network development
Cost (ex. GST)	\$668,740 + GST

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RICHARD BALLARD PARK

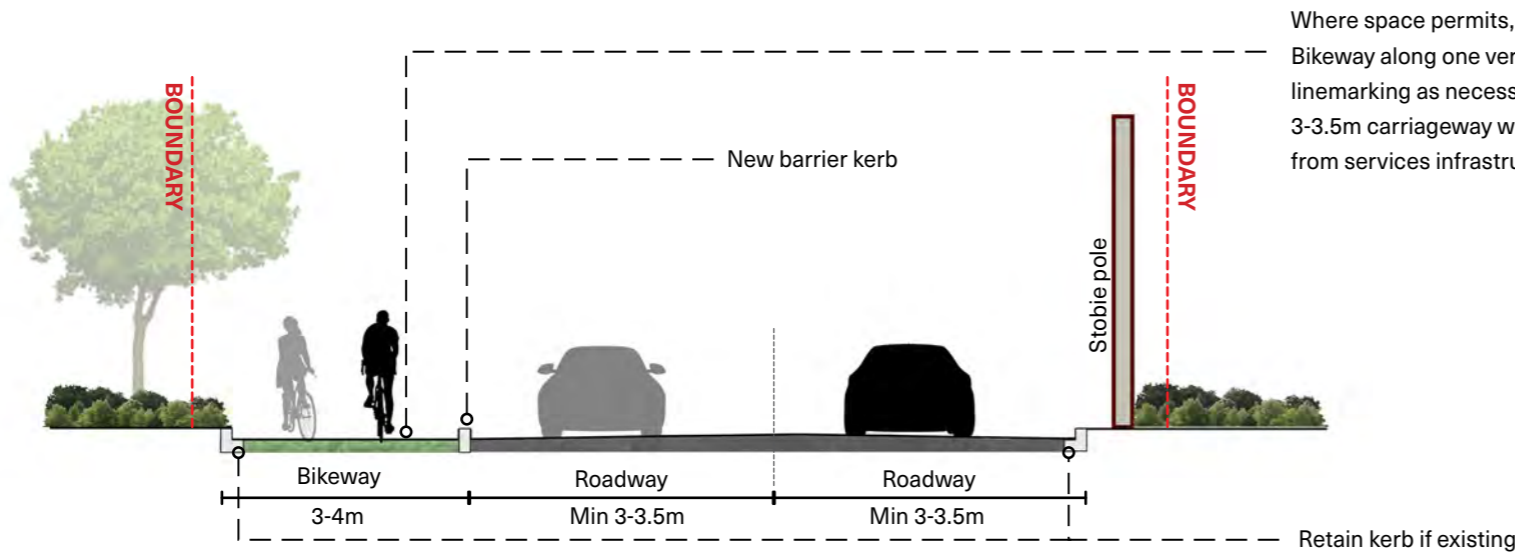
LIVERPOOL ROAD

CP-10



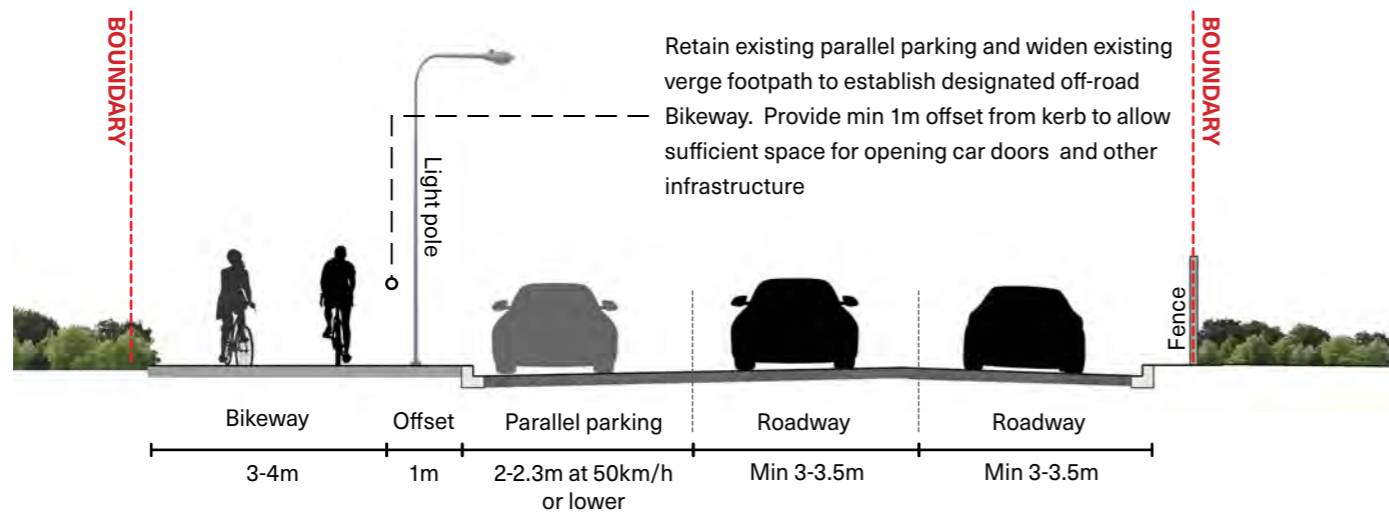
PRECEDENT ON-ROAD BIKEWAY

ENHANCED ON-ROAD BIKEWAY



PRECEDENT DESIGNATED BIKEWAY

DESIGNATED BIKEWAY



PRECEDENT OFF-ROAD BIKEWAY

OFF-ROAD BIKEWAY

Cost Estimates

The following high-level estimates of probable costs have been provided to enable future funding applications and have been separated into sections to assist with implementation planning.

Refer to the concept plans for extent of works for each separable section. Detailed breakdowns for each section are provided on the following pages.

Summary

1. Chiton Rocks to Watson Gap	13. Middleton - Surf Street	25. Barrage Road - Bombora On The River
Cost: \$513,700 + GST	Cost: \$205,855 + GST	Cost: \$406,690 + GST
2. Watson Gap Bridge	14. Middleton Point - Ocean Parade	26. Barrage Road South
Cost: \$239,510 + GST	Cost: \$2,359,110 + GST	Cost: \$416,990 + GST
3. Watson Gap to Bullies Beach	15. Middleton - Higgins Terrace	27. Barrage Road North
Cost: \$389,675 + GST	Cost: \$28,240 + GST	Cost: \$111,970 + GST
4. Boomer Beach	16. Middleton - Mill Terrace and Esplanade	28. Riverside Drive
Cost: \$276,560 + GST	Cost: \$416,845 + GST	Cost: \$144,625 + GST
5. Knights Beach - Battunga Avenue to Barbara Street)	17. Middleton - Mill Terrace Reserve Bridge	29. Goolwa Wharf - Boardwalk at Hector's Jetty
Cost: \$30,960 + GST	Cost: \$207,350 + GST	Cost: \$359,290 + GST
6. Knights Beach - Hutton Street to Merrilli Place and Port Elliot Headland	18. Middleton Beach - Esplanade to Surfers Parade	30. Goolwa Wharf
Cost: \$1,161,915 + GST	Cost: \$195,550 + GST	Cost: \$514,085 + GST
7. Horseshoe Bay - Basham Parade	19. Surfers Parade	31. Goolwa Wharf - Amelia Park Playground to Richard Ballard Park
Cost: \$1,991,015 + GST	Cost: \$3,831,580 + GST	Cost: \$37,040 + GST
8. Horseshoe Bay - Strangeways Terrace	20. Goolwa Beach - Waikiki Way to Andrew Avenue	32. Richard Ballard Park
Cost: \$115,050 + GST	Cost: \$115,115 + GST	Cost: \$511,450 + GST
9. Horseshoe Bay - Ratalang / Basham Beach South	21. Goolwa Beach - Tokuremoar Reserve	33. Liverpool Road
Cost: \$168,025 + GST	Cost: \$961,530 + GST	Cost: \$668,740 + GST
10. Ratalang / Basham Beach	22. Goolwa Beach - Kightley Road	
Cost: \$430,690 + GST	Cost: \$204,090 + GST	
11. Ratalang / Basham Beach - Bridge Upgrade	23. Goolwa Beach - Enhance Existing On-road Bikeway	Grand Total = \$17,858,520 +GST
Cost: \$250,250 + GST	Cost: \$168,740 + GST	
12. Middleton South	24. Goolwa Beach - Beach Road	
Cost: \$189,475 + GST	Cost: \$236,810 + GST	

Exclusions: Professional design; locality loading; escalation; maintenance and establishment. This opinion provides illustrative calculations and indicative costs and should not be used as a substitute for a full and final costing of the works. It is not a recommendation by Aspect Studios Pty Ltd to participate in or to abstain from the project and cannot be relied upon as a definitive statement of the total cost of the project. Aspect Studios Pty Ltd does not accept any responsibility for and expressly disclaims and excludes all liability for any use of or reliance on this opinion or any loss or damage of whatever nature (including consequential loss), howsoever incurred, which is suffered by any person acting on or refraining from acting because of anything contained in this opinion.

6.1 Cost Schedules - Chiton Rocks to Watson Gap

Chiton Rocks to Watson Gap

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$35,900.00	\$35,900.00
	SUBTOTAL				\$35,900.00
2.00	SITE DEMOLITION & PREPARATION				
	N/A				
	SUBTOTAL				\$0.00
3.00	SURFACES				
3.01	Enhanced existing off-road bikeway	46	Lin m	\$80.00	\$3,680.00
3.02	Enhanced existing on-road bikeway (Sharrows, signage upgrades)	213	Lin m	\$40.00	\$8,520.00
	SUBTOTAL				\$12,200.00
4.00	CIVIL				
	N/A				
	SUBTOTAL				\$0.00
5.00	FURNITURE & STRUCTURES				
5.01	Sundry outdoor furniture incl. bins, seats, bollards etc.	1	Item	\$15,000.00	\$15,000.00
	SUBTOTAL				\$15,000.00
6.00	PRFERRED ALIGNMENT				
	<i>Option A</i>				
6.01	New 3m wide asphalt Bikeway with linemarking, through coastal dunes	840	Lin m	\$250.00	\$210,000.00
6.02	Shared space interface with SLSC prioritising pedestrian & cyclist safety	1	Item	\$40,000.00	\$40,000.00
6.03	Fencing 1200mm high along rail line	765	Lin m	\$50.00	\$38,250.00
6.04	Reconfiguration and adjustments to existing carpark and roadway as a result of the new Bikeway (Allowance)	1	Item	\$45,000.00	\$45,000.00
	SUBTOTAL				\$333,250.00
7.00	SIGNAGE				
7.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	1100	Lin m	\$10.00	\$11,000.00
	SUBTOTAL				\$11,000.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$395,150.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$39,515.00	\$39,515.00
	Construction Contingency (Allowance) 20%	1	Item	\$79,030.00	\$79,030.00
	Subtotal including Contingencies & Preliminaries				\$513,695.00
	10% GST				\$51,369.50
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$565,064.50

6.2 Cost Schedules - Watson Gap Bridge

Watson Gap Bridge

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$20,525.00	\$20,525.00
	SUBTOTAL				\$20,525.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Demolish existing bridge. Remove debris, clear site where required (Allowance)	1	Item	\$30,000.00	\$30,000.00
2.02	Vegetation pruning to improve sightlines (Allowance)	1	Item	\$5,000.00	\$5,000.00
	SUBTOTAL				\$35,000.00
3.00	SURFACES				
	N/A				
	SUBTOTAL				\$0.00
4.00	CIVIL				
4.01	Upgrade intersection at New Rd, including relocate holding rail	1	item	\$15,000.00	\$15,000.00
	SUBTOTAL				\$15,000.00
5.00	FURNITURE & STRUCTURES				
5.01	New min 3m wide bridge structure with compliant bike barriers	25	Lin m	\$6,000.00	\$150,000.00
5.02	Sundry outdoor furniture incl. bins, seats, bollards etc.	1	Item	\$5,000.00	\$5,000.00
	SUBTOTAL				\$155,000.00
6.00	SIGNAGE				
6.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	25	Lin m	\$10.00	\$250.00
	SUBTOTAL				\$250.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$225,775.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$22,577.50	\$22,577.50
	Construction Contingency (Allowance) 20%	1	Item	\$45,155.00	\$45,155.00
	Subtotal including Contingencies & Preliminaries				\$293,507.50
	10% GST				\$29,350.75
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$322,858.25

6.3 Cost Schedules - Watson Gap to Bullies Beach

Watson Gap to Bullies Beach

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$27,250.00	\$27,250.00
	SUBTOTAL				\$27,250.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required, earth mounding (Allowance)	1	Item	\$7,500.00	\$7,500.00
2.02	Vegetation pruning to improve sightlines (Allowance)	1	Item	\$5,000.00	\$5,000.00
	SUBTOTAL				\$12,500.00
3.00	SURFACES				
3.01	Enhanced existing off-road bikeway (Sharrows, signage upgrades)	82	Lin m	\$100.00	\$8,200.00
3.02	New 3m wide asphalt designated off-road Bikeway with linemarking	600	Lin m	\$400.00	\$240,000.00
	SUBTOTAL				\$248,200.00
4.00	CIVIL				
	N/A				
	SUBTOTAL				\$0.00
5.00	FURNITURE & STRUCTURES				
5.01	Sundry outdoor furniture incl. bins, seats, bollards etc.	1	Item	\$5,000.00	\$5,000.00
	SUBTOTAL				\$5,000.00
6.00	SIGNAGE				
6.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	680	Lin m	\$10.00	\$6,800.00
	SUBTOTAL				\$6,800.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$299,750.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$29,975.00	\$29,975.00
	Construction Contingency (Allowance) 20%	1	Item	\$59,950.00	\$59,950.00
	Subtotal including Contingencies & Preliminaries				\$389,675.00
	10% GST				\$38,967.50
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$428,642.50

6.4 Cost Schedules - Boomer Beach

Boomer Beach

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$19,340.00	\$19,340.00
	SUBTOTAL				\$19,340.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required, earth mounding (Allowance)	1	Item	\$7,500.00	\$7,500.00
2.02	Vegetation pruning to improve sightlines (Allowance)	1	Item	\$5,000.00	\$5,000.00
	SUBTOTAL				\$12,500.00
3.00	SURFACES				
3.01	Resurface existing off-road bikeway (nom 2.5m wide)	460	Lin m	\$120.00	\$55,200.00
3.02	New 3m wide asphalt designated off-road Bikeway with linemarking	110	Lin m	\$400.00	\$44,000.00
	SUBTOTAL				\$99,200.00
4.00	CIVIL				
4.01	Reconfigure carpark 1m north to allow space provision for off-road bikeway to southern edge of carpark	110	Lin m	\$200.00	\$22,000.00
4.02	New nom.1m high retaining wall to Boomer Beach carpark	110	Lin m	\$400.00	\$44,000.00
	SUBTOTAL				\$66,000.00
5.00	FURNITURE & STRUCTURES				
5.01	Sundry outdoor furniture incl. bins, seats, bollards etc.	1	Item	\$10,000.00	\$10,000.00
	SUBTOTAL				\$10,000.00
6.00	SIGNAGE				
6.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	570	Lin m	\$10.00	\$5,700.00
	SUBTOTAL				\$5,700.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$212,740.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$21,274.00	\$21,274.00
	Construction Contingency (Allowance) 20%	1	Item	\$42,548.00	\$42,548.00
	Subtotal including Contingencies & Preliminaries				\$276,562.00
	10% GST				\$27,656.20
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$304,218.20

6.5 Cost Schedules - Knights Beach - Battunga Avenue to Barbara Street

Knights Beach (Battunga Avenue and Barbara Street)

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$2,165.00	\$2,165.00
	SUBTOTAL				\$2,165.00
2.00	SITE DEMOLITION & PREPARATION				
	N/A				
	SUBTOTAL				\$0.00
3.00	SURFACES				
3.01	Enhanced existing on-road bikeway	233	Lin m	\$40.00	\$9,320.00
	SUBTOTAL				\$9,320.00
4.00	CIVIL				
	N/A				
	SUBTOTAL				\$0.00
5.00	FURNITURE & STRUCTURES				
5.01	Sundry outdoor furniture incl. bins, seats, bollards etc.	1	Item	\$10,000.00	\$10,000.00
	SUBTOTAL				\$10,000.00
6.00	SIGNAGE				
6.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	233	Lin m	\$10.00	\$2,330.00
	SUBTOTAL				\$2,330.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$23,815.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$2,381.50	\$2,381.50
	Construction Contingency (Allowance) 20%	1	Item	\$4,763.00	\$4,763.00
	Subtotal including Contingencies & Preliminaries				\$30,959.50
	10% GST				\$3,095.95
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$34,055.45

6.6 Cost Schedules - Knights Beach - Hutton Street to Merrilli Place, and Port Elliot Headland

Knights Beach (Hutton Street and Merrilli Place) and Port Elliot Headland

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$81,700.00	\$81,700.00
	SUBTOTAL				\$81,700.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$20,000.00	\$20,000.00
	SUBTOTAL				\$20,000.00
3.00	SURFACES				
3.01	Upgrade and widen existing off-road bikeway incl. cutting into embankment, new lookout nodes, resurfacing and new linemarking	526	Lin m	\$250.00	\$131,500.00
3.02	New 3m wide asphalt designated off-road Bikeway with linemarking	265	Lin m	\$300.00	\$79,500.00
3.03	Enhance existing on-road bikeway safety (Sharrows, signage upgrades) (Allowance)	102	Lin m	\$40.00	\$4,080.00
	SUBTOTAL				\$215,080.00
4.00	ROADS AND CARPARKING				
4.01	Adjustments to existing carpark associated with new 3m wide offroad bikeway (Allowance)	1	Item	\$25,000.00	\$25,000.00
	SUBTOTAL				\$25,000.00
5.00	FURNITURE & STRUCTURES				
5.01	Sundry outdoor furniture incl. bins, seats, bollards etc.	1	Item	\$30,000.00	\$30,000.00
	SUBTOTAL				\$30,000.00
6.00	ALIGNMENT OPTIONS				
6.01	<i>Option A</i>				
6.01	New 3m wide boardwalk through existing coastal headland	174	Lin m	\$3,000.00	\$522,000.00
6.02	Remove existing vegetation	1	Item	\$15,000.00	\$15,000.00
6.03	Revegetation	350	m2	\$30.00	\$10,500.00
6.04	Establish new lookout node, including new shelter, furniture, feature paving & interpretive signage (Allowance)	1	Item	\$80,000.00	\$80,000.00
	SUBTOTAL				\$522,000.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$893,780.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$89,378.00	\$89,378.00
	Construction Contingency (Allowance) 20%	1	Item	\$178,756.00	\$178,756.00
	Subtotal including Contingencies & Preliminaries				\$1,161,914.00
	10% GST				\$116,191.40
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$1,278,105.40

6.7 Cost Schedules - Horseshoe Bay - Strangeways Terrace

Horseshoe Bay - Strangeways Terrace

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$7,370.00	\$7,370.00
	SUBTOTAL				\$7,370.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$5,000.00	\$5,000.00
	SUBTOTAL				\$5,000.00
3.00	SURFACES				
3.01	Enhance existing on-road bikeway safety (Sharrows, signage upgrades) (Allowance)	297	Lin m	\$40.00	\$11,880.00
	SUBTOTAL				\$11,880.00
4.00	ROADS AND CARPARKING				
4.01	Improve dangerous 5-way interseciton	1	Item	\$20,000.00	\$20,000.00
	SUBTOTAL				\$20,000.00
5.00	FURNITURE & STRUCTURES				
	N/A				
	SUBTOTAL				\$0.00
6.00	SIGNAGE				
6.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	297	Lin m	\$10.00	\$2,970.00
	SUBTOTAL				\$44,250.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$88,500.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$8,850.00	\$8,850.00
	Construction Contingency (Allowance) 20%	1	Item	\$17,700.00	\$17,700.00
	Subtotal including Contingencies & Preliminaries				\$115,050.00
	10% GST				\$11,505.00
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$126,555.00

6.8 Cost Schedules - Horseshoe Bay - Basham Parade

Horseshoe Bay - Basham Parade

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$139,000.00	\$139,000.00
	SUBTOTAL				\$139,000.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$10,000.00	\$10,000.00
	SUBTOTAL				\$10,000.00
3.00	SURFACES				
	N/A				
	SUBTOTAL				\$0.00
4.00	ROADS AND CARPARKING				
4.01	Upgrade intersection to improve safety	1	Item	\$30,000.00	\$30,000.00
4.02	Adjustments to existing carpark associated with new 3m wide offroad bikeway (Allowance)	1	Item	\$25,000.00	\$25,000.00
	SUBTOTAL				\$55,000.00
5.00	FURNITURE & STRUCTURES				
5.01	Sundry outdoor furniture incl. bins, seats, bollards etc.	1	Item	\$30,000.00	\$30,000.00
	SUBTOTAL				\$30,000.00
6.00	ALIGNMENT OPTIONS				
6.01	<i>Option A</i>				
6.01	New min 3m wide cantilevered boardwalk structure with custom balustrade, viewing and seating nodes and integration with existing stairs	250	Lin m	\$4,000.00	\$1,000,000.00
6.02	New 3m wide asphalt designated off-road Bikeway with linemarking	381	Lin m	\$300.00	\$114,300.00
6.03	Adjustments to existing road including possible rebuild of kerb and drainage upgrades	381	Lin m	\$150.00	\$57,150.00
6.04	Possible lighting upgrades associated with new boardwalk structure (Allowance)	1	Item	\$120,000.00	\$120,000.00
	SUBTOTAL				\$1,291,450.00
7.00	SIGNAGE				
7.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	610	Lin m	\$10.00	\$6,100.00
	SUBTOTAL				\$6,100.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$1,531,550.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$153,155.00	\$153,155.00
	Construction Contingency (Allowance) 20%	1	Item	\$306,310.00	\$306,310.00
	Subtotal including Contingencies & Preliminaries				\$1,991,015.00
	10% GST				\$199,101.50
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$2,190,116.50

6.9 Cost Schedules - Horseshoe Bay - Ratalang / Basham Beach South

Horseshoe Bay - Ratalang / Basham Beach South

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$11,750.00	\$11,750.00
	SUBTOTAL				\$11,750.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$15,000.00	\$15,000.00
2.02	Vegetation pruning to improve sightlines (Allowance)	1	Item	\$10,000.00	\$10,000.00
	SUBTOTAL				\$25,000.00
3.00	SURFACES				
3.01	Upgrade existing off-road bikeway, widen to 3m with resurfacing & linemarking	330	Lin m	\$240.00	\$79,200.00
	SUBTOTAL				\$79,200.00
4.00	ROADS AND CARPARKING				
4.01	Upgrade intersection to improve safety	1	Item	\$10,000.00	\$10,000.00
	SUBTOTAL				\$10,000.00
5.00	FURNITURE & STRUCTURES				
	N/A				
	SUBTOTAL				\$0.00
6.00	SIGNAGE				
6.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	330	Lin m	\$10.00	\$3,300.00
	SUBTOTAL				\$3,300.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$129,250.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$12,925.00	\$12,925.00
	Construction Contingency (Allowance) 20%	1	Item	\$25,850.00	\$25,850.00
	Subtotal including Contingencies & Preliminaries 10% GST				\$168,025.00 \$16,802.50
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$184,827.50

6.10 Cost Schedules - Ratalang / Basham Beach

Ratalang / Basham Beach

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$24,300.00	\$24,300.00
	SUBTOTAL				\$24,300.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$5,000.00	\$5,000.00
2.02	Vegetation pruning to improve sightlines (Allowance)	1	Item	\$10,000.00	\$10,000.00
	SUBTOTAL				\$15,000.00
3.00	SURFACES				
3.01	Upgrade existing off-road bikeway, widen to 3m with resurfacing & linemarking	1,600	Lin m	\$120.00	\$192,000.00
3.02	Upgrade existing rubble track	1,740	Lin m	\$40.00	\$69,600.00
	SUBTOTAL				\$192,000.00
4.00	ROADS AND CARPARKING				
4.01	Adjust Bikeway alignment at Bashams Beach carpark to improve safety	1	Item	\$15,000.00	\$15,000.00
	SUBTOTAL				\$15,000.00
5.00	FURNITURE & STRUCTURES				
5.01	Sundry outdoor furniture incl. bins, seats, bollards etc.	1	Item	\$15,000.00	\$15,000.00
5.02	New shelter structure & picnic setting	2	Item	\$35,000.00	\$70,000.00
	SUBTOTAL				\$85,000.00
6.00	SIGNAGE				
6.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	3340	Lin m	\$10.00	\$33,400.00
	SUBTOTAL				\$33,400.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$331,300.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$33,130.00	\$33,130.00
	Construction Contingency (Allowance) 20%	1	Item	\$66,260.00	\$66,260.00
	Subtotal including Contingencies & Preliminaries				\$430,690.00
	10% GST				\$43,069.00
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$473,759.00

6.11 Cost Schedules - Ratalang / Basham Beach - Upgrade Bridge

Ratalang / Basham Beach - Upgrade Bridge

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$17,500.00	\$17,500.00
	SUBTOTAL				\$17,500.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$20,000.00	\$20,000.00
2.02	Vegetation pruning to improve sightlines (Allowance)	1	Item	\$5,000.00	\$5,000.00
	SUBTOTAL				\$25,000.00
3.00	SURFACES				
3.01	N/A				
	SUBTOTAL				\$0.00
4.00	ROADS AND CARPARKING				
4.01	N/A				
	SUBTOTAL				\$0.00
5.00	FURNITURE & STRUCTURES				
5.01	New min 3m wide x 20m long bridge structure with compliant bike barriers	1	Item	\$150,000.00	\$150,000.00
	SUBTOTAL				\$150,000.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$192,500.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$19,250.00	\$19,250.00
	Construction Contingency (Allowance) 20%	1	Item	\$38,500.00	\$38,500.00
	Subtotal including Contingencies & Preliminaries				\$250,250.00
	10% GST				\$25,025.00
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$275,275.00

6.12 Cost Schedules - Middleton South

Middleton South

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$13,250.00	\$13,250.00
	SUBTOTAL				\$13,250.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$5,000.00	\$5,000.00
2.02	Vegetation pruning to improve sightlines (Allowance)	1	Item	\$5,000.00	\$5,000.00
	SUBTOTAL				\$10,000.00
3.00	SURFACES				
3.01	Upgrade existing (nom 2.5m wide) off-road bikeway, resurfacing & linemarking	370	Lin m	\$240.00	\$88,800.00
	SUBTOTAL				\$88,800.00
4.00	ROADS AND CARPARKING				
4.01	N/A				
	SUBTOTAL				\$0.00
5.00	FURNITURE & STRUCTURES				
5.01	Sundry outdoor furniture incl. bins, seats, bollards etc.	1	Item	\$30,000.00	\$30,000.00
	SUBTOTAL				\$30,000.00
6.00	SIGNAGE				
6.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	370	Lin m	\$10.00	\$3,700.00
	SUBTOTAL				\$3,700.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$145,750.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$14,575.00	\$14,575.00
	Construction Contingency (Allowance) 20%	1	Item	\$29,150.00	\$29,150.00
	Subtotal including Contingencies & Preliminaries				\$189,475.00
	10% GST				\$18,947.50
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$208,422.50

6.13 Cost Schedules - Middleton - Surf Street

Middleton - Surf Street

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item		\$0.00
	SUBTOTAL				\$0.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$5,000.00	\$5,000.00
2.02	Vegetation pruning to improve sightlines (Allowance)	1	Item	\$5,000.00	\$5,000.00
	SUBTOTAL				\$10,000.00
3.00	SURFACES				
3.01	Enhance existing on-road bikeway safety (Sharrows, signage upgrades) (Allowance)	125	Lin m	\$40.00	\$5,000.00
3.02	Upgrade existing (nom 2.5m wide) off-road bikeway, resurfacing & linemarking	110	Lin m	\$100.00	\$11,000.00
	SUBTOTAL				\$16,000.00
4.00	ROADS AND CARPARKING				
4.01	Proposed raised intersection and associated carpark upgrade works at Surf Street (Allowance)	1	Item	\$120,000.00	\$120,000.00
	SUBTOTAL				\$120,000.00
5.00	FURNITURE & STRUCTURES				
5.01	Sundry outdoor furniture incl. bins, seats, bollards etc.	1	Item	\$10,000.00	\$10,000.00
	SUBTOTAL				\$10,000.00
6.00	SIGNAGE				
6.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	235	Lin m	\$10.00	\$2,350.00
	SUBTOTAL				\$2,350.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$158,350.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$15,835.00	\$15,835.00
	Construction Contingency (Allowance) 20%	1	Item	\$31,670.00	\$31,670.00
	Subtotal including Contingencies & Preliminaries				\$205,855.00
	10% GST				\$20,585.50
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$226,440.50

6.14 Cost Schedules - Middleton Point - Ocean Parade

Middleton Point - Ocean Parade

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$165,000.00	\$165,000.00
	SUBTOTAL				\$165,000.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$30,000.00	\$30,000.00
2.02	Vegetation pruning to improve sightlines (Allowance)	1	Item	\$5,000.00	\$5,000.00
	SUBTOTAL				\$35,000.00
3.00	SURFACES				
	N/A				
	SUBTOTAL				\$0.00
4.00	ROADS AND CARPARKING				
	N/A				
	SUBTOTAL				\$0.00
5.00	FURNITURE & STRUCTURES				
5.01	Sundry outdoor furniture incl. bins, seats, bollards etc.	1	Item	\$30,000.00	\$30,000.00
	SUBTOTAL				\$30,000.00
6.00	ALIGNMENT OPTIONS				
	<i>Option A</i>				
6.01	New 3m wide asphalt off-road Bikeway with linemarking	80	Lin m	\$250.00	\$20,000.00
6.02	New min 3m wide cantilevered boardwalk structure with custom balustrade, viewing and seating nodes and integration with existing stairs	390	Lin m	\$4,000.00	\$1,560,000.00
	SUBTOTAL				\$1,580,000.00
7.00	SIGNAGE				
7.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	470	Lin m	\$10.00	\$4,700.00
	SUBTOTAL				\$4,700.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$1,814,700.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$181,470.00	\$181,470.00
	Construction Contingency (Allowance) 20%	1	Item	\$362,940.00	\$362,940.00
	Subtotal including Contingencies & Preliminaries				\$2,359,110.00
	10% GST				\$235,911.00
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$2,595,021.00

6.15 Cost Schedules - Middleton - Higgins Terrace

Middleton - Higgins Terrace

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$1,975.00	\$1,975.00
	SUBTOTAL				\$1,975.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$5,000.00	\$5,000.00
2.02	Vegetation pruning to improve sightlines (Allowance)	1	Item	\$5,000.00	\$5,000.00
	SUBTOTAL				\$10,000.00
3.00	SURFACES				
3.01	Enhance existing on-road bikeway safety (Sharrows, signage upgrades) (Allowance)	195	Lin m	\$40.00	\$7,800.00
	SUBTOTAL				\$7,800.00
4.00	ROADS AND CARPARKING				
	N/A				
	SUBTOTAL				\$0.00
5.00	FURNITURE & STRUCTURES				
5.01	N/A				
	SUBTOTAL				\$0.00
7.00	SIGNAGE				
7.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	195	Lin m	\$10.00	\$1,950.00
	SUBTOTAL				\$1,950.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$21,725.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$2,172.50	\$2,172.50
	Construction Contingency (Allowance) 20%	1	Item	\$4,345.00	\$4,345.00
	Subtotal including Contingencies & Preliminaries				\$28,242.50
	10% GST				\$2,824.25
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$31,066.75

6.16 Cost Schedules - Middleton - Mill Terrace and Esplanade

Middleton - Mill Terrace and Esplanade

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$29,150.00	\$29,150.00
	SUBTOTAL				\$29,150.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$10,000.00	\$10,000.00
2.02	Vegetation pruning to improve sightlines (Allowance)	1	Item	\$5,000.00	\$5,000.00
	SUBTOTAL				\$15,000.00
3.00	SURFACES				
3.01	New 3m wide asphalt designated off-road Bikeway with linemarking	650	Lin m	\$250.00	\$162,500.00
	SUBTOTAL				\$162,500.00
4.00	ROADS AND CARPARKING				
4.01	Adjustments to existing road including possible rebuild of kerb, pram ramps and drainage upgrades etc	450	Lin m	\$150.00	\$67,500.00
4.02	Improve intersection safety at carpark crossovers (Allowance)	2	Item	\$15,000.00	\$30,000.00
	SUBTOTAL				\$97,500.00
5.00	FURNITURE & STRUCTURES				
5.01	Sundry outdoor furniture incl. bins, seats, bollards etc.	1	Item	\$10,000.00	\$10,000.00
	SUBTOTAL				\$10,000.00
7.00	SIGNAGE				
7.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	650	Lin m	\$10.00	\$6,500.00
	SUBTOTAL				\$6,500.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$320,650.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$32,065.00	\$32,065.00
	Construction Contingency (Allowance) 20%	1	Item	\$64,130.00	\$64,130.00
	Subtotal including Contingencies & Preliminaries				\$416,845.00
	10% GST				\$41,684.50
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$458,529.50

6.17 Cost Schedules - Mill Terrace Reserve Bridge

Middleton - Mill Terrace Reserve Bridge

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$14,500.00	\$14,500.00
	SUBTOTAL				\$14,500.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$20,000.00	\$20,000.00
2.02	Vegetation pruning to improve sightlines (Allowance)	1	Item	\$5,000.00	\$5,000.00
	SUBTOTAL				\$25,000.00
3.00	SURFACES				
	N/A				
	SUBTOTAL				\$0.00
4.00	ROADS AND CARPARKING				
	N/A				
	SUBTOTAL				\$0.00
5.00	FURNITURE & STRUCTURES				
5.01	New min 3m wide x 15m long bridge structure with compliant bike barriers	1	Item	\$120,000.00	\$120,000.00
	SUBTOTAL				\$120,000.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$159,500.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$15,950.00	\$15,950.00
	Construction Contingency (Allowance) 20%	1	Item	\$31,900.00	\$31,900.00
	Subtotal including Contingencies & Preliminaries				\$207,350.00
	10% GST				\$20,735.00
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$228,085.00

6.18 Cost Schedules - Middleton Beach - Esplanade to Surfers Parade

Middleton Beach - Esplanade to Surfers Parade

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$13,675.00	\$13,675.00
	SUBTOTAL				\$13,675.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$5,000.00	\$5,000.00
2.02	Vegetation pruning to improve sightlines (Allowance)	1	Item	\$5,000.00	\$5,000.00
	SUBTOTAL				\$10,000.00
3.00	SURFACES				
3.01	Upgrade existing off-road bikeway, resurfacing & linemarking	347	Lin m	\$240.00	\$83,280.00
	SUBTOTAL				\$83,280.00
4.00	ROADS AND CARPARKING				
	N/A				
	SUBTOTAL				\$0.00
5.00	FURNITURE & STRUCTURES				
5.01	Sundry outdoor furniture incl. bins, seats, bollards etc.	1	Item	\$5,000.00	\$5,000.00
5.02	New shelter structure & picnic setting	1	Item	\$35,000.00	\$35,000.00
	SUBTOTAL				\$40,000.00
6.00	SIGNAGE				
6.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	347	Lin m	\$10.00	\$3,470.00
	SUBTOTAL				\$3,470.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$150,425.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$15,042.50	\$15,042.50
	Construction Contingency (Allowance) 20%	1	Item	\$30,085.00	\$30,085.00
	Subtotal including Contingencies & Preliminaries				\$195,552.50
	10% GST				\$19,555.25
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$215,107.75

6.19 Cost Schedules - Surfers Parade

Surfers Parade

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$267,940.00	\$267,940.00
	SUBTOTAL				\$267,940.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$25,000.00	\$25,000.00
2.02	Vegetation pruning to improve sightlines (Allowance)	1	Item	\$10,000.00	\$10,000.00
	SUBTOTAL				\$35,000.00
3.00	SURFACES				
3.01	New 3m wide asphalt designated off-road Bikeway with linemarking	195	Lin m	\$250.00	\$48,750.00
3.02	New 1.5m wide rubble footpath along carpark interface	23	Lin m	\$60.00	\$1,380.00
3.03	Revegetation (Allowance)	5,800	m2	\$30.00	\$174,000.00
	SUBTOTAL				\$224,130.00
4.00	ROADS AND CARPARKING				
4.01	Adjustments to existing road including possible rebuild of kerb, pram ramps and drainage upgrades etc	390	Lin m	\$150.00	\$58,500.00
4.02	Improve intersection safety at carpark crossovers (Allowance)	10	Item	\$15,000.00	\$150,000.00
4.03	Opportunity to resurface / formalise car parking (Allowance)	1	Item	\$30,000.00	\$30,000.00
	SUBTOTAL				\$208,500.00
5.00	FURNITURE & STRUCTURES				
5.01	New min 3m wide boardwalk structure with custom balustrade, viewing and seating nodes and integration with existing stairs	1396	Lin m	\$1,500.00	\$2,094,000.00
5.02	Sundry outdoor furniture incl. bins, seats, bollards etc.	1	Item	\$30,000.00	\$30,000.00
5.03	New shelter structure & picnic setting	2	Item	\$35,000.00	\$70,000.00
	SUBTOTAL				\$2,194,000.00
6.00	SIGNAGE				
6.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	1780	Lin m	\$10.00	\$17,800.00
	SUBTOTAL				\$17,800.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$2,947,370.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$294,737.00	\$294,737.00
	Construction Contingency (Allowance) 20%	1	Item	\$589,474.00	\$589,474.00
	Subtotal including Contingencies & Preliminaries				\$3,831,581.00
	10% GST				\$383,158.10
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$4,214,739.10

6.20 Cost Schedules - Goolwa Beach - Waikiki Way to Andrew Avenue

Goolwa Beach - Waikiki Way to Andrew Avenue

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$8,050.00	\$8,050.00
	SUBTOTAL				\$8,050.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$5,000.00	\$5,000.00
2.02	Vegetation pruning to improve sightlines (Allowance)	1	Item	\$5,000.00	\$5,000.00
	SUBTOTAL				\$10,000.00
3.00	SURFACES				
3.01	Enhance existing on-road bikeway safety (Sharrows, signage upgrades) (Allowance)	610	Lin m	\$40.00	\$24,400.00
	SUBTOTAL				\$24,400.00
4.00	ROADS AND CARPARKING				
4.01	Upgrade intersection at Andrew Ave to improve user safety	1	Item	\$30,000.00	\$30,000.00
	SUBTOTAL				\$30,000.00
5.00	FURNITURE & STRUCTURES				
5.01	Sundry outdoor furniture incl. bins, seats, bollards etc.	1	Item	\$10,000.00	\$10,000.00
	SUBTOTAL				\$10,000.00
6.00	SIGNAGE				
6.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	610	Lin m	\$10.00	\$6,100.00
	SUBTOTAL				\$6,100.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$88,550.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$8,855.00	\$8,855.00
	Construction Contingency (Allowance) 20%	1	Item	\$17,710.00	\$17,710.00
	Subtotal including Contingencies & Preliminaries				\$115,115.00
	10% GST				\$11,511.50
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$126,626.50

6.21 Cost Schedules - Goolwa Beach - Tokuremoar Reserve

Goolwa Beach - Tokuremoar Reserve

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$67,240.00	\$67,240.00
	SUBTOTAL				\$67,240.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$50,000.00	\$50,000.00
2.02	Vegetation pruning to improve sightlines (Allowance)	1	Item	\$20,000.00	\$20,000.00
	SUBTOTAL				\$70,000.00
3.00	SURFACES				
3.01	Enhance existing off-road bikeway - new linemarking, compliance etc (Allowance)	1,715	Lin m	\$40.00	\$68,600.00
	SUBTOTAL				\$68,600.00
4.00	ROADS AND CARPARKING				
4.01	N/A				
	SUBTOTAL				\$0.00
5.00	FURNITURE & STRUCTURES				
5.01	Replace boardwalk with new min 3m wide boardwalk structure with compliant bike barriers	165	Lin m	\$3,000.00	\$495,000.00
5.02	Sundry outdoor furniture incl. bins, seats, bollards etc.	1	Item	\$20,000.00	\$20,000.00
	SUBTOTAL				\$515,000.00
6.00	SIGNAGE				
6.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	1880	Lin m	\$10.00	\$18,800.00
	SUBTOTAL				\$18,800.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$739,640.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$73,964.00	\$73,964.00
	Construction Contingency (Allowance) 20%	1	Item	\$147,928.00	\$147,928.00
	Subtotal including Contingencies & Preliminaries				\$961,532.00
	10% GST				\$96,153.20
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$1,057,685.20

6.22 Cost Schedules - Goolwa Beach - Kightley Road

Goolwa Beach - Kightley Road

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$14,270.00	\$14,270.00
	SUBTOTAL				\$14,270.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$5,000.00	\$5,000.00
2.02	Vegetation pruning to improve sightlines (Allowance)	1	Item	\$2,000.00	\$2,000.00
	SUBTOTAL				\$7,000.00
3.00	SURFACES				
	N/A				
	SUBTOTAL				\$0.00
4.00	ROADS AND CARPARKING				
	N/A				
	SUBTOTAL				\$0.00
5.00	FURNITURE & STRUCTURES				
	N/A				
	SUBTOTAL				\$0.00
6.00	ALIGNMENT OPTIONS				
	<i>Option A</i>				
6.01	Widen existing footpath to establish new 3m wide off-road bikeway, upgrade driveway crossovers	377	Lin m	\$350.00	\$131,950.00
	SUBTOTAL				\$131,950.00
7.00	SIGNAGE				
7.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	377	Lin m	\$10.00	\$3,770.00
	SUBTOTAL				\$3,770.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$156,990.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$15,699.00	\$15,699.00
	Construction Contingency (Allowance) 20%	1	Item	\$31,398.00	\$31,398.00
	Subtotal including Contingencies & Preliminaries				\$204,087.00
	10% GST				\$20,408.70
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$224,495.70

6.23 Cost Schedules - Goolwa Beach - Enhance Existing On-road Bikeway

Goolwa Beach - Enhance Existing On-road Bikeway

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$11,800.00	\$11,800.00
	SUBTOTAL				\$11,800.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$5,000.00	\$5,000.00
2.02	Vegetation pruning to improve sightlines (Allowance)	1	Item	\$2,000.00	\$2,000.00
	SUBTOTAL				\$7,000.00
3.00	SURFACES				
3.01	Enhance existing on-road bikeway safety (Sharrows, signage upgrades) (Allowance)	2,220	Lin m	\$40.00	\$88,800.00
	SUBTOTAL				\$88,800.00
4.00	ROADS AND CARPARKING				
	N/A				
	SUBTOTAL				\$0.00
5.00	FURNITURE & STRUCTURES				
	N/A				
	SUBTOTAL				\$0.00
6.00	SIGNAGE				
6.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	2220	Lin m	\$10.00	\$22,200.00
	SUBTOTAL				\$22,200.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$129,800.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$12,980.00	\$12,980.00
	Construction Contingency (Allowance) 20%	1	Item	\$25,960.00	\$25,960.00
	Subtotal including Contingencies & Preliminaries				\$168,740.00
	10% GST				\$16,874.00
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$185,614.00

6.24 Cost Schedules - Goolwa Beach - Beach Road

Goolwa Beach - Beach Road

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$16,560.00	\$16,560.00
	SUBTOTAL				\$16,560.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$5,000.00	\$5,000.00
2.02	Vegetation pruning to improve sightlines (Allowance)	1	Item	\$2,000.00	\$2,000.00
	SUBTOTAL				\$7,000.00
3.00	SURFACES				
3.01	New 3m wide asphalt designated off-road Bikeway with linemarking	110	Lin m	\$250.00	\$27,500.00
	SUBTOTAL				\$27,500.00
4.00	ROADS AND CARPARKING				
4.01	Install new Bikeway crossing including refuge on Beach Road	1	Item	\$30,000.00	\$30,000.00
4.02	Upgrade lighting at Beach Road crossing (Allowance)	1	Item	\$100,000.00	\$100,000.00
	SUBTOTAL				\$130,000.00
5.00	FURNITURE & STRUCTURES				
	N/A				
	SUBTOTAL				\$0.00
6.00	SIGNAGE				
6.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	110	Lin m	\$10.00	\$1,100.00
	SUBTOTAL				\$1,100.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$182,160.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$18,216.00	\$18,216.00
	Construction Contingency (Allowance) 20%	1	Item	\$36,432.00	\$36,432.00
	Subtotal including Contingencies & Preliminaries				\$236,808.00
	10% GST				\$23,680.80
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$260,488.80

6.25 Cost Schedules - Barrage Road South

Barrage Road South

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$29,160.00	\$29,160.00
	SUBTOTAL				\$29,160.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$15,000.00	\$15,000.00
2.02	Vegetation pruning to improve sightlines (Allowance)	1	Item	\$15,000.00	\$15,000.00
	SUBTOTAL				\$30,000.00
3.00	SURFACES				
3.01	New 3m wide asphalt designated off-road Bikeway with linemarking	410	Lin m	\$250.00	\$102,500.00
	SUBTOTAL				\$102,500.00
4.00	ROADS AND CARPARKING				
4.01	Install new Bikeway crossing including refuge on Barrage Road	1	Item	\$30,000.00	\$30,000.00
4.02	Improve intersection safety at carpark crossovers (Allowance)	1	Item	\$10,000.00	\$10,000.00
4.03	Upgrade lighting at Barrage Road crossing (Allowance)	1	Item	\$100,000.00	\$100,000.00
	SUBTOTAL				\$140,000.00
5.00	FURNITURE & STRUCTURES				
5.01	Sundry outdoor furniture incl. bins, seats, bollards etc.	1	Item	\$15,000.00	\$15,000.00
	SUBTOTAL				\$15,000.00
6.00	SIGNAGE				
6.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	410	Lin m	\$10.00	\$4,100.00
	SUBTOTAL				\$4,100.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$320,760.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$32,076.00	\$32,076.00
	Construction Contingency (Allowance) 20%	1	Item	\$64,152.00	\$64,152.00
	Subtotal including Contingencies & Preliminaries				\$416,988.00
	10% GST				\$41,698.80
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$458,686.80

6.26 Cost Schedules - Barrage Road North

Barrage Road North

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$7,830.00	\$7,830.00
	SUBTOTAL				\$7,830.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$5,000.00	\$5,000.00
2.02	Vegetation pruning to improve sightlines (Allowance)	1	Item	\$5,000.00	\$5,000.00
	SUBTOTAL				\$10,000.00
3.00	SURFACES				
3.01	Enhance existing off-road bikeway - new linemarking, compliance etc (Allowance)	866	Lin m	\$40.00	\$34,640.00
	SUBTOTAL				\$34,640.00
4.00	ROADS AND CARPARKING				
4.01	Improve intersection safety at carpark crossovers (Allowance)	1	Item	\$10,000.00	\$10,000.00
	SUBTOTAL				\$10,000.00
5.00	FURNITURE & STRUCTURES				
5.01	Sundry outdoor furniture incl. bins, seats, bollards etc.	1	Item	\$15,000.00	\$15,000.00
	SUBTOTAL				\$15,000.00
6.00	SIGNAGE				
6.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	866	Lin m	\$10.00	\$8,660.00
	SUBTOTAL				\$8,660.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$86,130.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$8,613.00	\$8,613.00
	Construction Contingency (Allowance) 20%	1	Item	\$17,226.00	\$17,226.00
	Subtotal including Contingencies & Preliminaries				\$111,969.00
	10% GST				\$11,196.90
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$123,165.90

6.27 Cost Schedules - Barage Road - Bombora On The River

Barrage Road - Bombora On The River

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$28,440.00	\$28,440.00
	SUBTOTAL				\$28,440.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$30,000.00	\$30,000.00
	SUBTOTAL				\$30,000.00
3.00	SURFACES				
3.01	Enhance existing off-road bikeway - new linemarking, compliance etc (Allowance)	140	Lin m	\$40.00	\$5,600.00
	SUBTOTAL				\$5,600.00
4.00	ROADS AND CARPARKING				
4.01	Reconfigure interface with Bombora café and adjacent parking area, including Bikeway widening, carpark alignment adjustments, new 1.5m wide footpath, new balustrade, bike racks etc. Note: Upgrade to Barrage Road alignment excluded and by others (Subject to detailed design and consultation with DIT)	1	Item	\$150,000.00	\$150,000.00
4.02	Bump rail to provide edge protection to steep grasses batter	20	Lin m	\$100.00	\$2,000.00
4.03	Improve safety at driveway crossovers, intersections and Bikeway road crossing	2	No.	\$40,000.00	\$80,000.00
	SUBTOTAL				\$232,000.00
5.00	FURNITURE & STRUCTURES				
5.01	Sundry outdoor furniture incl. bins, seats, bollards etc.	1	Item	\$15,000.00	\$15,000.00
	SUBTOTAL				\$15,000.00
6.00	SIGNAGE				
6.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	180	Lin m	\$10.00	\$1,800.00
	SUBTOTAL				\$1,800.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$312,840.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$31,284.00	\$31,284.00
	Construction Contingency (Allowance) 20%	1	Item	\$62,568.00	\$62,568.00
	Subtotal including Contingencies & Preliminaries				\$406,692.00
	10% GST				\$40,669.20
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$447,361.20

6.28 Cost Schedules - Riverside Drive

Riverside Drive

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item		\$0.00
	SUBTOTAL				\$0.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$10,000.00	\$10,000.00
	SUBTOTAL				\$10,000.00
3.00	SURFACES				
3.01	Enhance existing off-road bikeway - new linemarking, compliance etc (Allowance)	125	Lin m	\$40.00	\$5,000.00
3.02	Enhance existing on-road bikeway safety (Sharrows, signage upgrades) (Allowance)	250	Lin m	\$40.00	\$10,000.00
	SUBTOTAL				\$15,000.00
4.00	ROADS AND CARPARKING				
4.01	New kerb barrier to edge of Bikeway along Riverside Drive	250	Lin m	\$150.00	\$37,500.00
	SUBTOTAL				\$37,500.00
5.00	FURNITURE & STRUCTURES				
5.01	Sundry outdoor furniture incl. bins, seats, bollards etc.	1	Item	\$15,000.00	\$15,000.00
5.02	Upgrade existing lookout on Riverside Dr	1	Item	\$30,000.00	\$30,000.00
	SUBTOTAL				\$45,000.00
6.00	SIGNAGE				
6.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	375	Lin m	\$10.00	\$3,750.00
	SUBTOTAL				\$3,750.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$111,250.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$11,125.00	\$11,125.00
	Construction Contingency (Allowance) 20%	1	Item	\$22,250.00	\$22,250.00
	Subtotal including Contingencies & Preliminaries				\$144,625.00
	10% GST				\$14,462.50
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$159,087.50

6.29 Cost Schedules - Goolwa Wharf - Boardwalk at Hector's Jetty

Goolwa Wharf - Boardwalk at Hector's Jetty

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$25,125.00	\$25,125.00
	SUBTOTAL				\$25,125.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$7,500.00	\$7,500.00
2.02	Vegetation pruning to improve sightlines (Allowance)	1	Item	\$5,000.00	\$5,000.00
	SUBTOTAL				\$12,500.00
3.00	SURFACES				
	N/A				
	SUBTOTAL				\$0.00
4.00	ROADS AND CARPARKING				
4.01	Rehabilitation / potential rock revetment works associated with new boardwalk alignment at beach	1	Item	\$40,000.00	\$40,000.00
	SUBTOTAL				\$40,000.00
5.00	FURNITURE & STRUCTURES				
5.01	Sundry outdoor furniture incl. bins, seats, bollards etc.	1	Item	\$10,000.00	\$10,000.00
	SUBTOTAL				\$10,000.00
6.00	ALIGNMENT OPTIONS				
6.01	<i>Option A</i>				
6.01	Replace boardwalk with new min 3m wide boardwalk structure with compliant bike barriers	185	Lin m	\$1,000.00	\$185,000.00
	SUBTOTAL				\$185,000.00
6.00	SIGNAGE				
6.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	375	Lin m	\$10.00	\$3,750.00
	SUBTOTAL				\$3,750.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$276,375.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$27,637.50	\$27,637.50
	Construction Contingency (Allowance) 20%	1	Item	\$55,275.00	\$55,275.00
	Subtotal including Contingencies & Preliminaries				\$359,287.50
	10% GST				\$35,928.75
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$395,216.25

6.30 Cost Schedules - Goolwa Wharf

Goolwa Wharf

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$35,950.00	\$35,950.00
	SUBTOTAL				\$35,950.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$25,000.00	\$25,000.00
	SUBTOTAL				\$25,000.00
3.00	SURFACES				
3.01	New 3m wide asphalt designated off-road Bikeway with linemarking	136	Lin m	\$250.00	\$34,000.00
	SUBTOTAL				\$34,000.00
4.00	ROADS AND CARPARKING				
4.01	Improve safety at Brooking St crossover	1	Item	\$25,000.00	\$25,000.00
	SUBTOTAL				\$25,000.00
5.00	FURNITURE & STRUCTURES				
5.01	Sundry outdoor furniture incl. bins, seats, bollards etc.	1	Item	\$20,000.00	\$20,000.00
	SUBTOTAL				\$20,000.00
6.00	ALIGNMENT OPTIONS				
	<i>Option A</i>				
6.01	Establish new shared zone with possible paved roadway (nom 5m wide) upgrade with linemarking and signage	210	Lin m	\$1,200.00	\$252,000.00
	SUBTOTAL				\$252,000.00
7.00	SIGNAGE				
7.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	350	Lin m	\$10.00	\$3,500.00
	SUBTOTAL				\$3,500.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$395,450.00
	Design Cost: Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$39,545.00	\$39,545.00
	Construction Contingency (Allowance) 20%	1	Item	\$79,090.00	\$79,090.00
	Subtotal including Contingencies & Preliminaries 10% GST				\$514,085.00 \$51,408.50
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$565,493.50

6.31 Cost Schedules - Goolwa Wharf - Amelia Park Playground to Richard Ballard

Goolwa Wharf - Amelia Park Playground to Richard Ballard Park

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$2,590.00	\$2,590.00
	SUBTOTAL				\$2,590.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$5,000.00	\$5,000.00
2.02	Vegetation pruning to improve sightlines (Allowance)	1	Item	\$2,000.00	\$2,000.00
	SUBTOTAL				\$7,000.00
3.00	SURFACES				
3.01	Enhance existing off-road bikeway - new linemarking, compliance etc (Allowance)	278	Lin m	\$40.00	\$11,120.00
	SUBTOTAL				\$11,120.00
4.00	ROADS AND CARPARKING				
	N/A				
	SUBTOTAL				\$0.00
5.00	FURNITURE & STRUCTURES				
5.01	Sundry outdoor furniture incl. bins, seats, bollards etc.	1	Item	\$5,000.00	\$5,000.00
	SUBTOTAL				\$5,000.00
6.00	SIGNAGE				
6.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	278	Lin m	\$10.00	\$2,780.00
	SUBTOTAL				\$2,780.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$28,490.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$2,849.00	\$2,849.00
	Construction Contingency (Allowance) 20%	1	Item	\$5,698.00	\$5,698.00
	Subtotal including Contingencies & Preliminaries				\$37,037.00
	10% GST				\$3,703.70
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$40,740.70

6.32 Cost Schedules - Richard Ballard Park

Richard Ballard Park

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$26,675.00	\$26,675.00
	SUBTOTAL				\$26,675.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$20,000.00	\$20,000.00
2.02	Vegetation pruning to improve sightlines (Allowance)	1	Item	\$15,000.00	\$15,000.00
	SUBTOTAL				\$35,000.00
3.00	SURFACES				
3.01	New 3m wide asphalt designated off-road Bikeway with linemarking	120	Lin m	\$250.00	\$30,000.00
	SUBTOTAL				\$30,000.00
4.00	ROADS AND CARPARKING				
4.01	Upgrade and formalise existing carpark	1200	m2	\$100.00	\$120,000.00
	SUBTOTAL				\$120,000.00
5.00	FURNITURE & STRUCTURES				
5.01	New min 3m wide boardwalk structure with compliant bike barrier	60	lin m	\$3,000.00	\$180,000.00
	SUBTOTAL				\$180,000.00
6.00	SIGNAGE				
6.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	175	Lin m	\$10.00	\$1,750.00
	SUBTOTAL				\$1,750.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$393,425.00
	Design Cost; Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$39,342.50	\$39,342.50
	Construction Contingency (Allowance) 20%	1	Item	\$78,685.00	\$78,685.00
	Subtotal including Contingencies & Preliminaries				\$511,452.50
	10% GST				\$51,145.25
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$562,597.75

6.33 Cost Schedules - Liverpool Road

Liverpool Road

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.00	PRELIMINARIES				
1.01	Establishment, insurances etc (Allowance 10%)	1	Item	\$46,765.00	\$46,765.00
	SUBTOTAL				\$46,765.00
2.00	SITE DEMOLITION & PREPARATION				
2.01	Remove debris, clear site where required (Allowance)	1	Item	\$15,000.00	\$15,000.00
2.02	Remove existing pine barrier on Liverpool Rd	1	Item	\$20,000.00	\$20,000.00
2.03	Vegetation pruning to improve sightlines (Allowance)	1	Item	\$15,000.00	\$15,000.00
	SUBTOTAL				\$50,000.00
3.00	SURFACES				
3.01	Enhance existing off-road bikeway safety (Sharrows, signage upgrades) (Allowance)	2,855	Lin m	\$20.00	\$57,100.00
	SUBTOTAL				\$57,100.00
4.00	ROADS AND CARPARKING				
4.01	Upgrade bikeway and barrier junctions including realignment of bikeway lanes with new linemarking, hardwood timber bollards, vegetated median	2	No.	\$25,000.00	\$50,000.00
4.02	Improve safety at driveway crossovers and intersections	3	No.	\$10,000.00	\$30,000.00
4.03	Improve access to Bikeway at junctions with adjoining streets (Allowance)	12	No.	\$7,000.00	\$84,000.00
	SUBTOTAL				\$164,000.00
5.00	FURNITURE & STRUCTURES				
5.01	Sundry outdoor furniture incl. bins, seats, bollards etc.	1	Item	\$30,000.00	\$30,000.00
5.02	New hardwood timber barrier for full length of Liverpool Road	2760	lin m	\$50.00	\$138,000.00
	SUBTOTAL				\$168,000.00
6.00	SIGNAGE				
6.01	Upgrade wayfinding and consolidate regulatory signage (Allowance)	2855	Lin m	\$10.00	\$28,550.00
	SUBTOTAL				\$28,550.00
	SUBTOTAL OF LANDSCAPE AND EXTERNAL WORKS (not inc. GST)				\$514,415.00
	Design Cost: Architectural, engineering, public consultation, DA's, etc (Allowance) 10%	1	Item	\$51,441.50	\$51,441.50
	Construction Contingency (Allowance) 20%	1	Item	\$102,883.00	\$102,883.00
	Subtotal including Contingencies & Preliminaries				\$668,739.50
	10% GST				\$66,873.95
	LANDSCAPE AND EXTERNAL WORKS TOTAL including GST				\$735,613.45

Appendix A - Engagement Report

Alexandrina Council
22ADL-0078
4 August 2022

Encounter Bikeway

PART A: Engagement Report

Encounter Bikeway

4 August 2022

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In association with ASPECT Studios

Prepared for Alexandrina Council

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URPS Ref 22ADL-0078

Document history and status

Revision	Date	Author	Reviewed	Details
V1	15/07/22	Z. Hambour	T. Slattery	Draft for client review
V2	03/08/22	Z. Hambour	J. Clay	With updates
V3	04/08/22	Z. Hambour		

We acknowledge the Kaurna People as the Traditional Custodians of the land on which we work and pay respect to their Elders past, present and emerging.

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SNAPSHOT Alexandrina Encounter Bikeway Engagement

16 May and 13 June 22, 2022 - Draft Concept Plans to improve the safety, amenity and user experience along nine sections of the Bikeway



2 Community Drop-in Sessions attended by 25 people



210 Online and hard copy survey responses

Bikeway sections with most responses: Dump Beach/Chiton Rocks/Bullies Beach (119); Surfers Parade/Goolwa Beach (91)

Feedback on proposed route options

Bikeway sections with options proposed	Most supported route option (% support plus somewhat support)	Why did people choose this option?
Dump Beach/Chiton Rocks/ Bullies Beach	71% Option A - Establish new bikeway through coastal dunes	Natural extension of the path along the rail line; attracts customers to the Surf Live Saving Club; good experience for riders (views, coastal); like separation from cars
Boomer Beach/Port Elliot Headland/ Horseshoe Bay	85% Option A - New link along embankment contour	Coastal views; the boardwalk; clear weeds and plant natives; utilises the existing on-road bikeway and maintains existing pedestrian-only zone
Horseshoe Bay/ Bashams Beach	92% Option A – designated of-road bikeway	Because it is off-road, provides good views and goes past the caravan park.
Middleton/Ocean Parade	74% Option A - Proposed designated bikeway alignment along Ocean Parade.	The cantilevered section around Middleton Point providing views; bikeway stays along the coast; reduces conflict between cars and cyclists
Surfers Parade/ Goolwa Beach	68% Option A - Upgrade existing on-road bikeway or footpath along Kightley Road	Enhances use and safety of the area for pedestrians and cyclists; cost effective and least invasive of the natural landscape; cyclists still have the option of utilising the existing gravel path across the flood plain
Barrage Road/ Riverside Drive/ Goolwa Wharf/ Amelia Park/ Richard Ballard Park	87% Option A - Trail continues along shared road	Elimination of the dangerous unpaved section through the parking lot just east of the Hindmarsh Island Bridge; safer for cyclists as Jaralde Park can get busy; brings cyclists to Wharf area; improved connectivity between boardwalk and paths

Other key themes of feedback



- Proposed bridge and intersection upgrades were well supported
- Divided views on the proposed on and off road enhancements
- Concern about safety of pedestrians and cyclists on Seagull Avenue. Suggestions to remove stobie poles
- Concern about conflict between cyclists, walkers, cars and surfers along Surfers Parade. Suggestions for one way
- Concerns that Kightley Road Goolwa can be busy and dangerous for recreational cyclists during peak periods
- Desire to keep front path at Ratalang beach for walkers
- Preference for paths being off-road to reduce interaction with cars versus some desiring on-road to minimise cost
- Managing shared use path conflicts (eg. pedestrians versus cyclists)
- Protecting dunes and natural values
- Providing a good experience for cyclists (eg. views, natural areas)
- Managing gradients and sight lines
- Consider hazards from coastal erosion and inundation

Comparison to City of Victor Harbor bikeway engagement

In November 2021, City of Victor Harbor consulted on three options for realigning the bikeway up to the Alexandrina Council boarder.

69% of respondents to the Victor Harbor survey support route options within City of Victor Harbor that align to Alexandrina Council's most supported option, Option A -Establish new bikeway through coastal dunes.

Why we engaged

The Encounter Bikeway is an on-road and shared trail that links the four coastal towns of the City of Victor Harbor and the Riverport Town of Goolwa, via the coastal towns of Port Elliot and Middleton. The total distance of The Bikeway is 30km.

Alexandrina Council is planning for upgrades to the 21.5 km of the Bikeway in its Council area to improve safety, amenity and user experience. This includes the Bikeway between Laffins Point in Goolwa North (intersection of Liverpool Road and Howell Street) and the Alexandrina Council boundary with Victor Harbor Council along Seagull Avenue in Chiton.

The existing Bikeway was reviewed, and draft concept plans were prepared for 9 sections of the Bikeway in the Alexandrina Council area. For each section a variety of upgrades were proposed including route realignment options, new off road or enhanced on road bikeways, intersection safety improvements and bridge upgrades.

Council engaged with community and stakeholders to understand the level of support for each of the upgrade options for each section of the Bikeway in the Alexandrina Council area. This report summarises the engagement undertaken and its results.

This report (Part A) is supplemented by Part B - verbatim comments from the consultation survey (a separate document).

How we engaged

The engagement sought feedback to understand the level of community and stakeholder support for the different upgrade options in the draft Concept Plans prepared for each section of the Encounter Bikeway in the Alexandrina Council area.

The engagement was undertaken between 16 May and 13 June 22 and included:

1. **Drop in sessions** at which the community could drop-in, view the plans, ask questions of the design team and fill in a hard copy survey:
 - 20 May 12-3pm Goolwa Library
 - 21 May 1-4pm Chiton Rocks Surf Life Saving Club
2. **Online survey** on Council's Your Say Page (www.mysay.alexandrina.sa.gov.au/encounterbikeway)
A copy of the survey questions is provided in Appendix A.

The draft Concept Plans were available to view from the Council's My Say page and were on display in the Goolwa Library from 22 May to 13 June 2022.

The engagement was promoted through:

- Temporary signage established at key points along the Bikeway
- Advertisement
- Advertisement in the Victor Times newspaper
- Council's website
- A presentation to Middleton Town and Foreshore Association
- Emails to known resident groups and local cycling club.

What we heard

25 people attended the drop-in sessions. 210 survey responses were received these include a combination of mainly online survey responses as well as some hard copy survey responses.

The following sections summarise the results of the survey. Verbatim comments are provided in Part C to this report (separate document).

About you

Most survey respondents were Alexandrina Council ratepayers (67%) and Alexandrina residents (47%). Only 2% were Alexandrina businesses. Most respondents were aged between 55 and 74 years. (Figure 1)

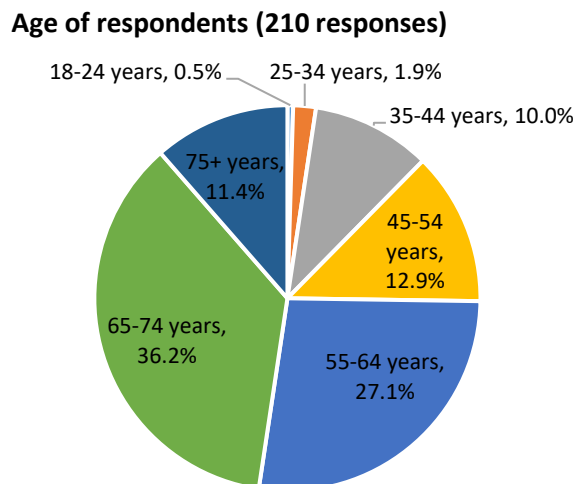
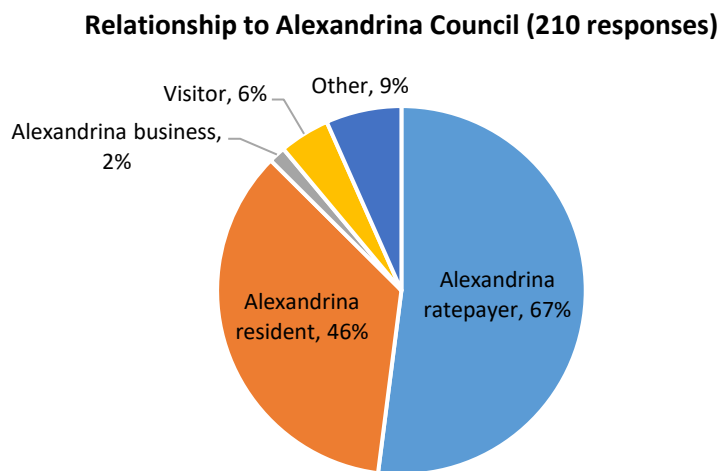
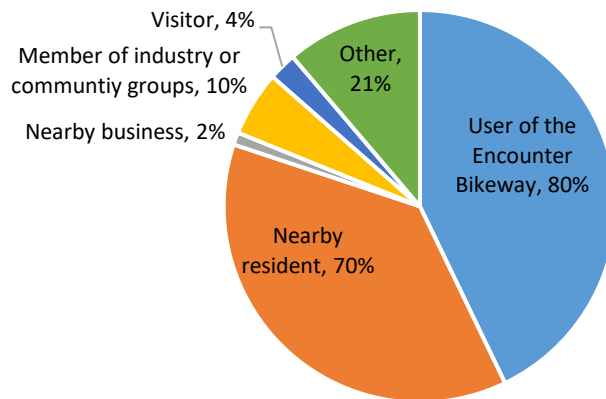


Figure 1- Relationship to Alexandrina Council and age of survey respondents

80% of respondents were users of the Encounter Bikeway and 70% were residents near the Bikeway. Respondents use the Bikeway for a variety of reasons with for fitness (76%), enjoying nature and the scenery (75%) and family or social outings (61%) being the most popular reasons for use. (Figure 2)

Relationship to Encounter Bikeway (210 responses)



How do you use Encounter Bikeway? (160 responses)

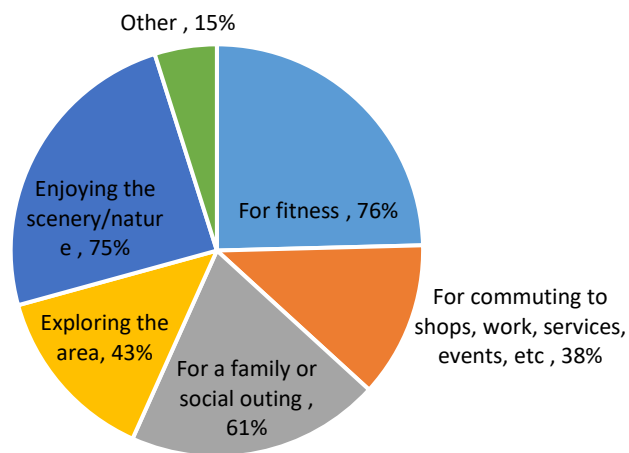


Figure 2 – Relation to and use of Encounter Bikeway by survey respondents

Feedback on proposed plans

The following pages display the level of support received for the different sections of the bikeway.

Survey respondents could choose which sections to provide feedback on. Table 1 shows the number of surveys responses received on each section. Dump Beach/Chiton Rocks/Bullies Beach (Plan CP-01) received the highest number of responses (119) and Richard Ballard Park/Liverpool Road (Plan CP-09) the least (48).

Section	# of responses
Dump Beach/Chiton Rocks/Bullies Beach (Plan CP-01)	119
Boomer Beach/Port Elliot Headland/Horseshoe Bay (Plan CP-02)	72
Horseshoe Bay/Bashams Beach (Plan CP-03)	97 (See note below)
Ratalang/Bashman Beach (Plan CP-04)	70
Middleton/Ocean Parade (Plan CP-05)	75
Surfers Parade/Goolwa Beach (Plan CP-06)	91
Goolwa Beach (Plan CP-07)	56
Barrage Road/Riverside Drive/Goolwa Wharf/Amelia Park/Richard Ballard Park (Plan CP-08)	60
Richard Ballard Park/Liverpool Road (Plan CP-09)	48

Table 1 - Number of responses for each section of the Encounter Bikeway

*Note. There was a malfunction in the extraction of data from the online survey for the 72 responses made online for the Horseshoe Bay/Bashams Beach (Plan CP-03). The quantitative results of which route options respondents prefer was unable to be downloaded. Only the verbatim comments were able to be downloaded. 25 hard copy surveys were completed.

Dump Beach/Chiton Rocks/Bullies Beach (Plan CP-01)

119 responses were received for Dump Beach/Chiton Rocks/Bullies Beach (Plan CP-01). Figure 3 displays the results for this section.

Option A (establish new bikeway through coastal dunes), was the most highly supported of the proposed realignment options (ie of Options A through to D) with a combined 71% of respondents either supporting (63%) or somewhat supporting (8%) Option A. Reasons for supporting Option A included:

- It's a natural extension of the path along the rail line
- It will assist the Surf Live Saving Club by attracting customers
- It provides a good experience for riders (views, coastal environment)
- A preference for an off road bikeway separated from cars

Those that did not support Option A (23%) were concerned with cost, environmental impact, safety and lack of views of running a path through the dunes. These respondents would either prefer to see Option B through the reserve where the coastal views are the best, or to see the money spent on Seagull Ave (Option C) where there are existing road safety issues that could be resolved at the same time as constructing the bikeway and making the street one way. Those with concerns about Seagull Avenue in its present state would like the safety issues addressed regardless of where the bikeway goes.

Reasons for not supporting the other options included:

- Option B impacts on the privacy and ocean views of residents on Seagull Avenue whose properties back onto the reserve (however, some other respondents argued that these homes are all holiday homes and the views from Option B would be "spectacular")
- Concern of conflict between cars and cyclists (Seagull Avenue Option C is already hazardous)
- Removing stobie poles is too expensive
- The on-road options don't provide a good view or rider experience.

Comparison to City of Victor Harbor bikeway engagement

In November 2021, City of Victor Harbor consulted on three options for realigning the bikeway up to the Alexandrina Council boarder.

Option 1 Road Reserves (139 responses) Connects to Alexandrina Option A (coastal dunes)

Option 2 Rail Corridor (177 responses) Connects to Alexandrina Option A (coastal dunes)

Option 3 On Road (139 responses) Connects to Alexandrina Council to Option C (Seagull Ave.)

69% of respondents to the Victor Harbor survey support route options within City of Victor Harbor that align to Alexandrina Council Option A Coastal Dunes. Support for these options was due to obtaining the best possible experience through access to views, separation from traffic and ease of connection from Hindmarsh Road to the Council boundary with Alexandrina.

For the proposed upgrades, most supported the upgrade to the bridge (70% combined support and somewhat support). Comments were made to provide a non-slip surface and to provide lighting.

The level of support for the proposed on and off road bikeways was less clear. Around half of combined respondents either support or somewhat support the off road bikeway and around 40% do not support or strongly do not support the enhanced on-road bikeway. Around a quarter to a third of respondents were unsure about the off-road and on-road bikeways.

Reasons for not supporting or being unsure of the on-road and off road bikeways included wanting to leave bikeway on-road where it won't damage the environment and requires less expenditure for construction, versus people wanting off-road bikeways for safety. Comments were also made about improving these bikeways in the vicinity of Watson's Gap, such as:

- Addressing the uphill gradient and sight lines at Watsons Gap/Ocean Road
- Running the bikeway from Sixth Avenue along the train line (road corridor) to Watson's Gap
- Including a bench at t Channon Street after bridge at the Gap.

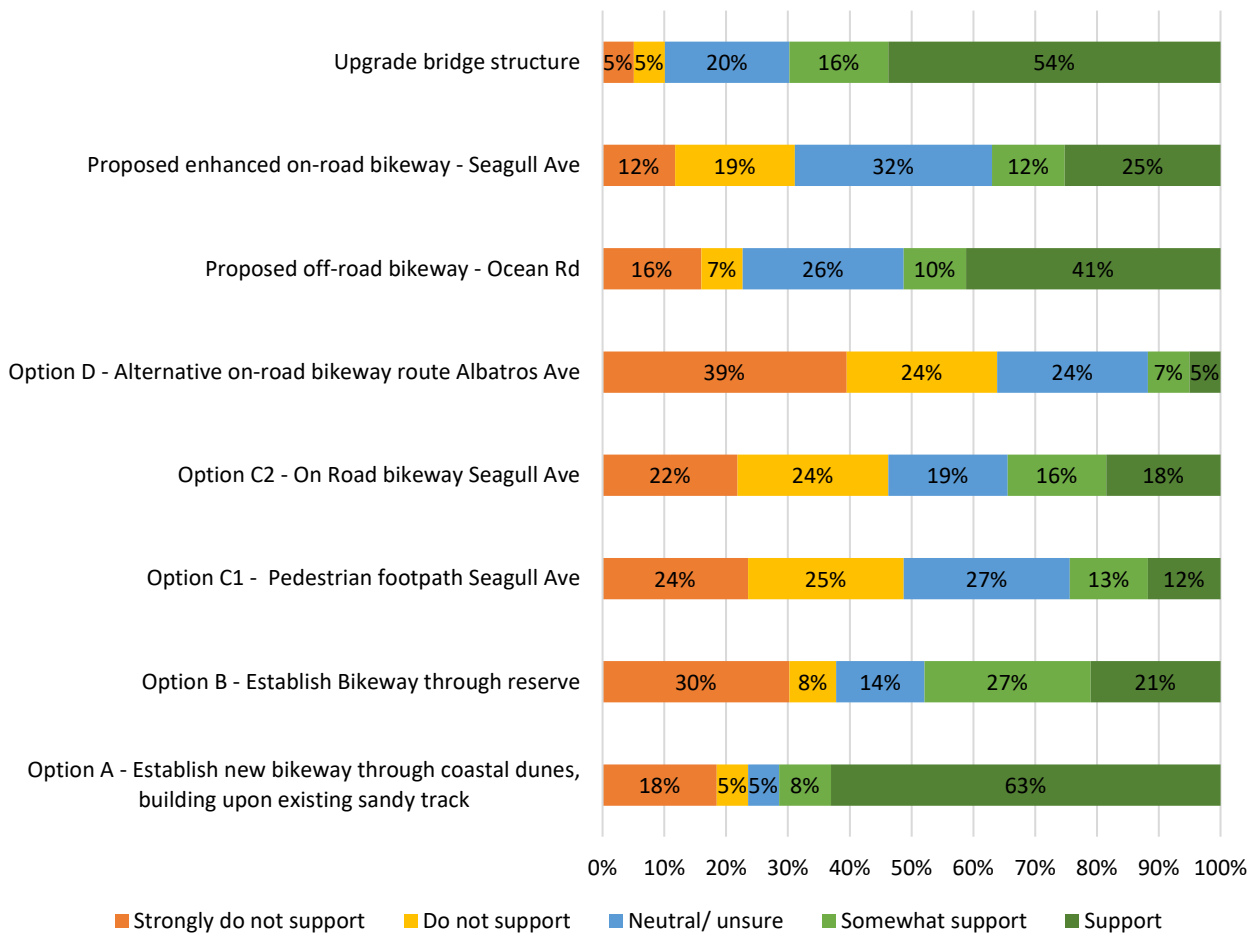


Figure 3 - Level of support for proposed upgrades to Dump Beach/Chiton Rocks/Bullies Beach (Plan CP-01; 119 responses)

Boomer Beach/Knights Beach/Port Elliot Headland/Horseshoe Bay (Plan CP-02)

72 responses were received for Boomer Beach/Port Elliot Headland/Horseshoe Bay (Plan CP-02). Figure 4 displays the results for this section.

Option A (New link along embankment contour) was by far the most highly supported of the proposed realignment options (ie of Options A or B) with a combined 85% of respondents either supporting (79%) or somewhat supporting (6%) Option A. Reasons for supporting Option A included:

- Utilises the coastal views
- The boardwalk upgrade
- Clearance of exotic pest plants – opportunity to consider a revegetation/restoration project
- Utilising the existing on-road bikeway and maintenance of existing pedestrian-only zone
- Reasons for not supporting the other Option B (Utilise existing track, heritage stairs and

Landing) included

- Requirement to dismount at Centenary Steps is not safe, inclusive and accessible

There was less overwhelming support for the off-road and on-road bike options.

60% of combined respondents either support (43%) or somewhat support (17%) the off road bikeway and around a quarter were neutral or unsure. 41% of combined respondents either support (28%) or somewhat support (13%) the on road bikeway and 38% were neutral or unsure.

Reasons for not supporting or being unsure of the on-road bikeway included:

- Bike paths are significant traffic generators and are not appropriate for the relaxed contemplative walking and lookout areas

Reasons for supporting the off-road bikeway included:

- Opportunity for great views
- Removes the risk between cyclists and vehicles

Reasons for not supporting or being unsure of the off-road bikeway included:

- Off-road bikeway would be difficult to implement due to the nature of the terrain
- The alignment is close to the Steamranger railway causing safety concerns

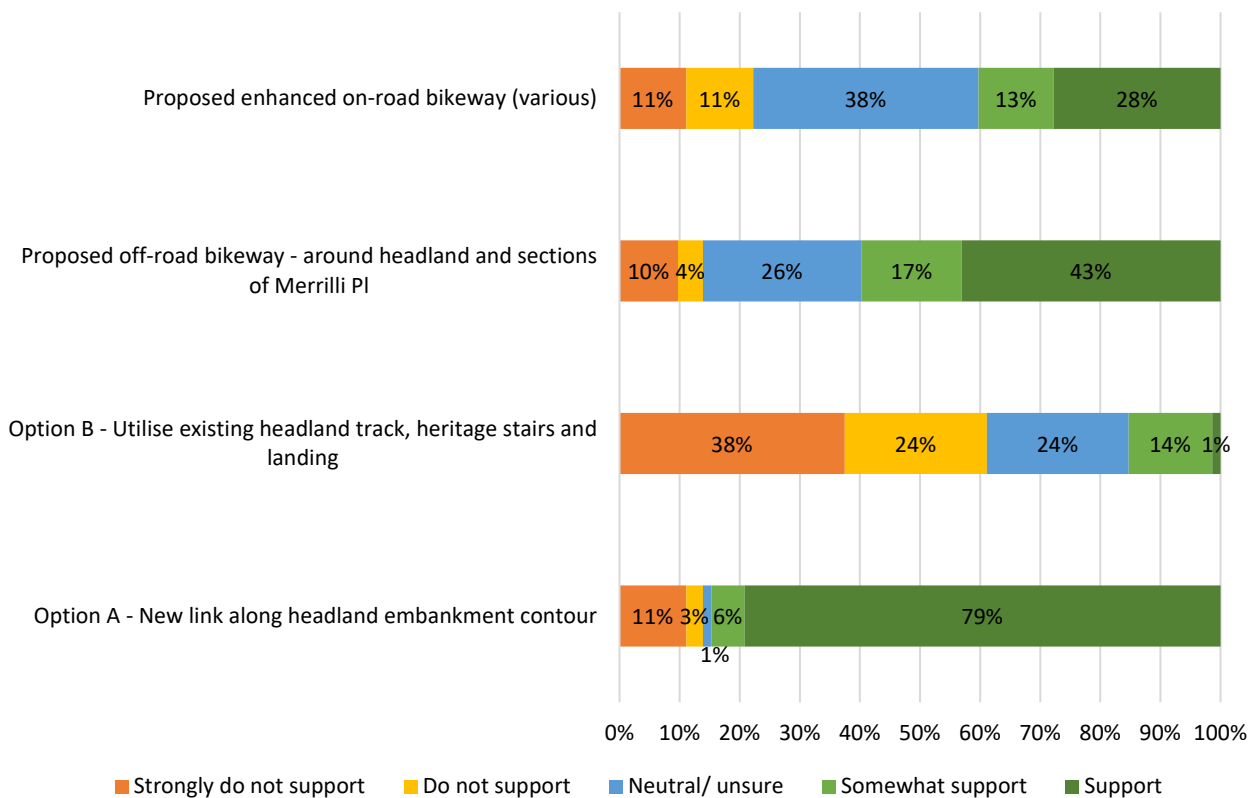


Figure 4 - Level of support for proposed upgrades to Boomer Beach/Port Elliot Headland/Horseshoe Bay (Plan CP-02; 72 responses)

Horseshoe Bay/Bashams Beach (Plan CP-03)

There was a malfunction in the extraction of data from the online survey for the 72 responses made online for the Horseshoe Bay/Bashams Beach (Plan CP-03). The quantitative results of route options respondents prefer were unable to be downloaded (verbatim comments were able to be downloaded). Instead, the 25 hard copy surveys completed have been used to provide quantitative results. Results are presented in Figure 5.

Option A (designated off-road bikeway) was by far the most highly supported of the proposed realignment options (ie of Options A or B) with a combined 92% of the 25 respondents either supporting (88%) or somewhat supporting (4%) Option A. Reasons for supporting Option A included it is:

- off road
- Maximises views
- Goes past the caravan park.

Other comments received included:

- Concerns that the proposed boardwalk will create conflict between pedestrians and cyclists and that it may get slippery. Once person suggested it be pedestrian only.
- Suggestions to resurface the bikeway between chicken run car park/Middleton and Horseshoe Bay
- Suggestions to remove tree roots/resurface path between Scrymgour Road and the caravan park entry road
- Option A is expensive to build and maintain
- To ensure paths are wide (e.g. 3m)
- To not damage the natural environment
- Improve signage including “watch for cyclist” at Strangways Terrace/Basham Parade
- To install safe crossing points (eg. zebra or wombat crossings)
- To establish a more scenic path along the foreshore (eg. Commodore Reserve)

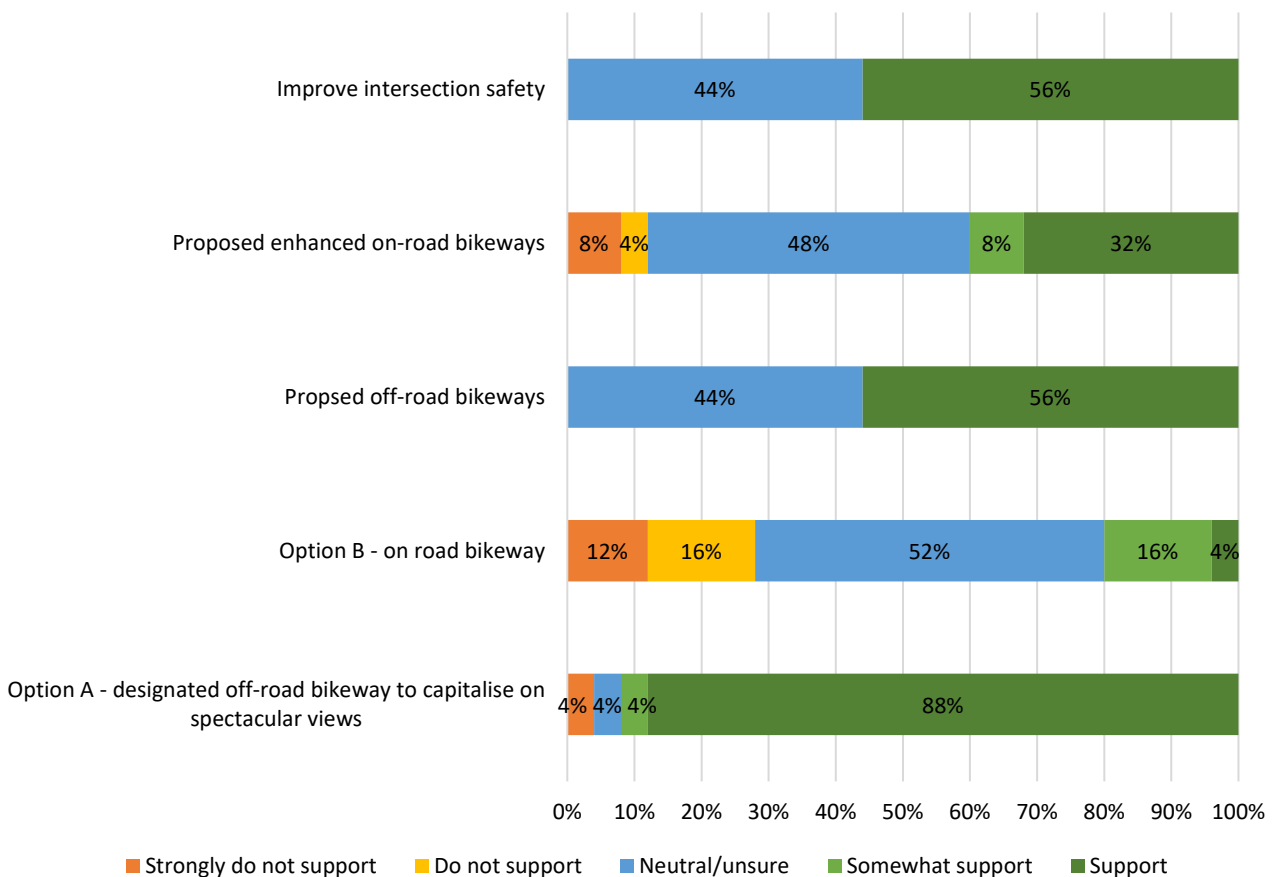


Figure 5 - Level of support for proposed upgrades to Horseshoe Bay/Bashams Beach (Plan CP-03; 25 responses hard copy survey forms only)

Ratalang/Bashman Beach (Plan CP-04)

70 responses were received for Ratalang/Bashman Beach (Plan CP-04). Figure 6 displays the results for this section.

There was strong support for both improving intersection safety and upgrading the bridge. 84% of combined respondents either support (77%) or somewhat support (7%) improving intersection safety. 81% of combined respondents either support (74%) or somewhat support (7%) the bridge upgrade.

Reasons for supporting intersection safety included:

- Opportunity to put line marking at the Basham Road crossover for motorists to give way to crossing cyclists
- Opportunity to improve sightlines (blind entry) at car park (vegetation pruning or path realignment)
- Opportunity to warn walkers and cyclists reaching a road

Reasons for supporting upgrading the bridge included:

- Opportunity to remove nails on the bridge and use a recycled environmentally friendly non-slip product on the surface.

There was an error in the wording of the off/on-road bikeways in the survey. They should have been labelled “proposed enhanced off road bikeway” and “existing off-road bikeway”. As such the quantitative results in the bottom two bars of Figure 5 cannot be confidently interpreted for these elements. However, the comments received do seem to indicate a preference for the existing off-road bikeway and for leaving the proposed/enhanced bikeway (the one closer to the ocean) as it is – to not seal it.

Reasons for supporting the existing off-road bikeway included:

- Current unsealed path is enjoyed as a nature walking trail
- The current dirt track provides a safe path for pedestrians and children away from cyclists
- Like the existing dirt track

Reasons for not supporting the proposed/enhanced off-road bikeway (closer to the beach) included:

- Impacts vegetation and dunes
- Sealing the track is not suitable for walkers and runners
- Keep it a quiet natural path in which to experience nature
- This location is a Ngarrindjeri sacred place
- Like being able to use both path options as they are

Comments did acknowledge the conflict of bikes and pedestrians sharing paths. One person suggested that the enhanced off-road route would provide options and less congestion for riders and walkers. Others suggested keeping the front path (ie that proposed to enhanced) as just for walkers and having signage as such, or suggested better promotion that cyclists need to share paths with walkers. One person suggested that the whole bikeway shouldn't be called a bikeway but should be referred to as a pathway for all users.

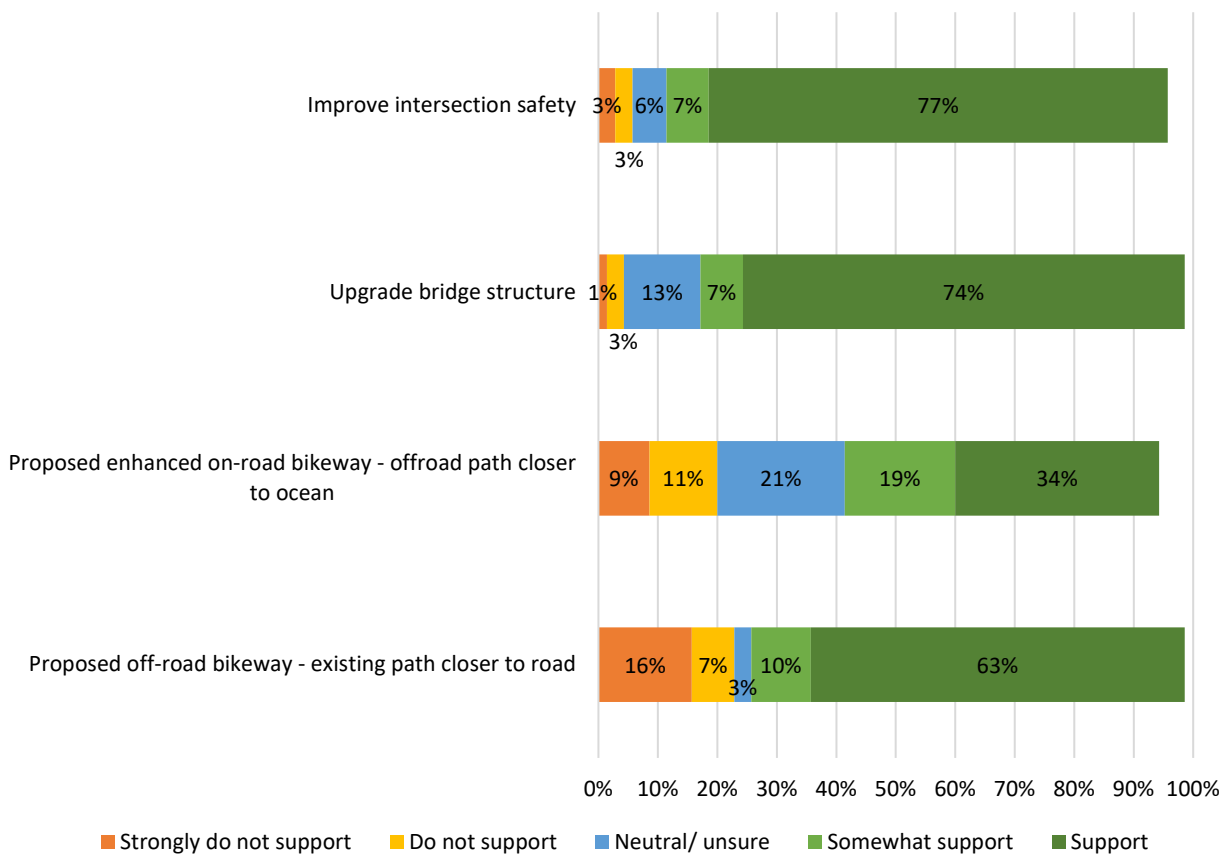


Figure 6 - Level of support for proposed upgrades to Ratalang/Bashman Beach (Plan CP-04; 70 responses)

NOTE: There was an error in the survey. It should have read “proposed enhanced off-road bikeway” and “existing off-road bikeway” as such the bottom two bars of the graph cannot be confidently interpreted

Middleton/Ocean Parade (Plan CP-05)

75 responses were received for Middleton/Ocean Parade (Plan CP-05). Figure 7 displays the results for this section.

Option A (Proposed designated bikeway alignment along Ocean Parade) was the most highly supported of the proposed realignment options (ie of Options A through to C) with a combined 74% of respondents either supporting (69%) or somewhat supporting (5%) Option A. Reasons for supporting Option A included:

- The cantilevered section around Middleton Point providing views
- The bikeway stays along the coast.
- Improves conflict between cars and cyclists improving safety, particularly:
 - At the east end of Ocean Parade.
 - Along the coast

Some did not support option A due to the cost of the cantilevered boardwalk and adding additional cycle traffic to the already busy area.

Reasons for not supporting or being unsure/neutral of the other options included:

- Gradient is very steep where the existing bikeway accesses Ocean Parade
- Missed opportunity for sea views at the Middleton Point carpark
- Conflict with traffic especially on busy days

For the proposed upgrades, most supported the upgrade to the bridge (71% combined support and somewhat support). However, the level of support for the proposed on and off-road bikeways and improving intersection safety was more divided.

Reasons for supporting these upgrades included:

- Opportunity to widen and reduce conflict between cyclists and walkers.
- Improve conflict of entering cycling traffic at Surf Street and Ocean Parade

Reasons for not supporting or being unsure of these upgrades included:

- Roads along Mill Terrace and the Esplanade are not busy enough for there to be conflict between cyclists and cars

Some respondents felt that the locations of the proposed picnic areas are in the wrong place as car parking is not nearby and is not accessible for families.

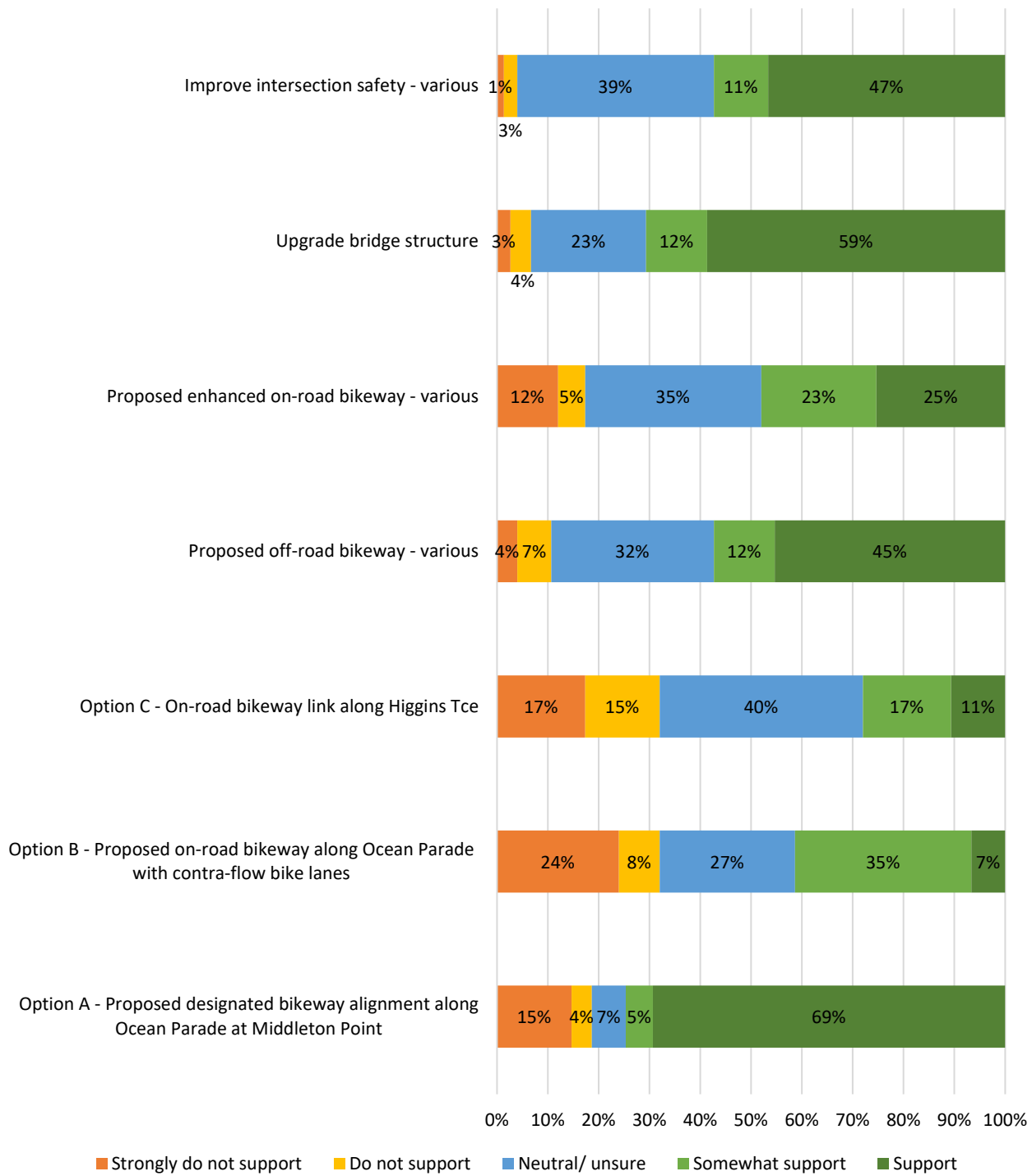


Figure 7 - Level of support for proposed upgrades to Middleton/Ocean Parade (Plan CP-05; 75 responses)

Surfers Parade/Goolwa Beach (Plan CP-06)

91 responses were received for Surfers Parade/Goolwa Beach (Plan CP-06). Figure 8 displays the results for this section.

Option A (Upgrade existing on-road bikeway or footpath along Kightley Road) was the most supported of the proposed realignment options (ie of Options A through to C) with a combined 68% of respondents either supporting (46%) or somewhat supporting (22%) Option A. Support for the other options was very divided.

Reasons for supporting Option A included:

- Enhances use and safety of the area for pedestrians and cyclists
- Cost effective and least invasive of the natural landscape
- Cyclists still have the option of utilising the existing gravel path across the flood plain

Some noted that Kightley Road can be busy and dangerous for recreational cyclists during peak periods.

Reasons for not supporting or being unsure/neutral of the other options included:

- The elevated boardwalk is not necessary
- Reed Place can be subject to pooling where there is heavy rain
- Disturbance to local wildlife
- Intrusive to households adjacent the bikeway i.e. intrusion of privacy
- Lack of seaviews

There was good support for both improving intersection safety and upgrading the bridge. 77% of combined respondents either support (62%) or somewhat support (15%) improving intersection safety. 78% of combined respondents either support (64%) or somewhat support (14%) the bridge upgrade.

Reasons for supporting improving intersection safety and upgrading the bridge included:

- Remove nails on bridge structure and use a recycled environmentally friendly non-slip surface product on the surface

Support for the on-road, off-road and off-road board walk upgrades was more divided. However, of these upgrades the board walk received the most combined support (61% of respondents either support or somewhat support). Key reasons for responses to these upgrades included:

- Need to consider conflict between surfers, cars and cyclists on Surfers parade, especially during peak periods. Give them separate spaces. Some suggested cyclists on the ocean side of car parks, others the reverse.
- Suggestion to separate walkers from cyclists versus keeping them together
- Boardwalk enhances use and safety if it is reserved for pedestrians versus concern that the boardwalk will obstruct views or be slippery or impact too greatly on the dunes. One suggested the boardwalk could be "lowered" to still enable views

- Shift on-road bikeway to Miami Boulevard instead of Waikiki Way
- Avoid on road pathways as much as possible
- Avoid damaging dunes and the natural environment
- Suggestions to make Surfers Parade one-way and underground powerlines to provide more space for managing bikes, pedestrians and cars
- Consider give way signage at car park crossovers to prevent collisions especially during peak periods and zebra crossings at intersections
- Ensure wide enough pathways (eg 3m)
- Upgrade boardwalk/bridge in Tokuremoar Reserve. Its slippery, has nails sticking up, has poor alignment and flooding is an issue.

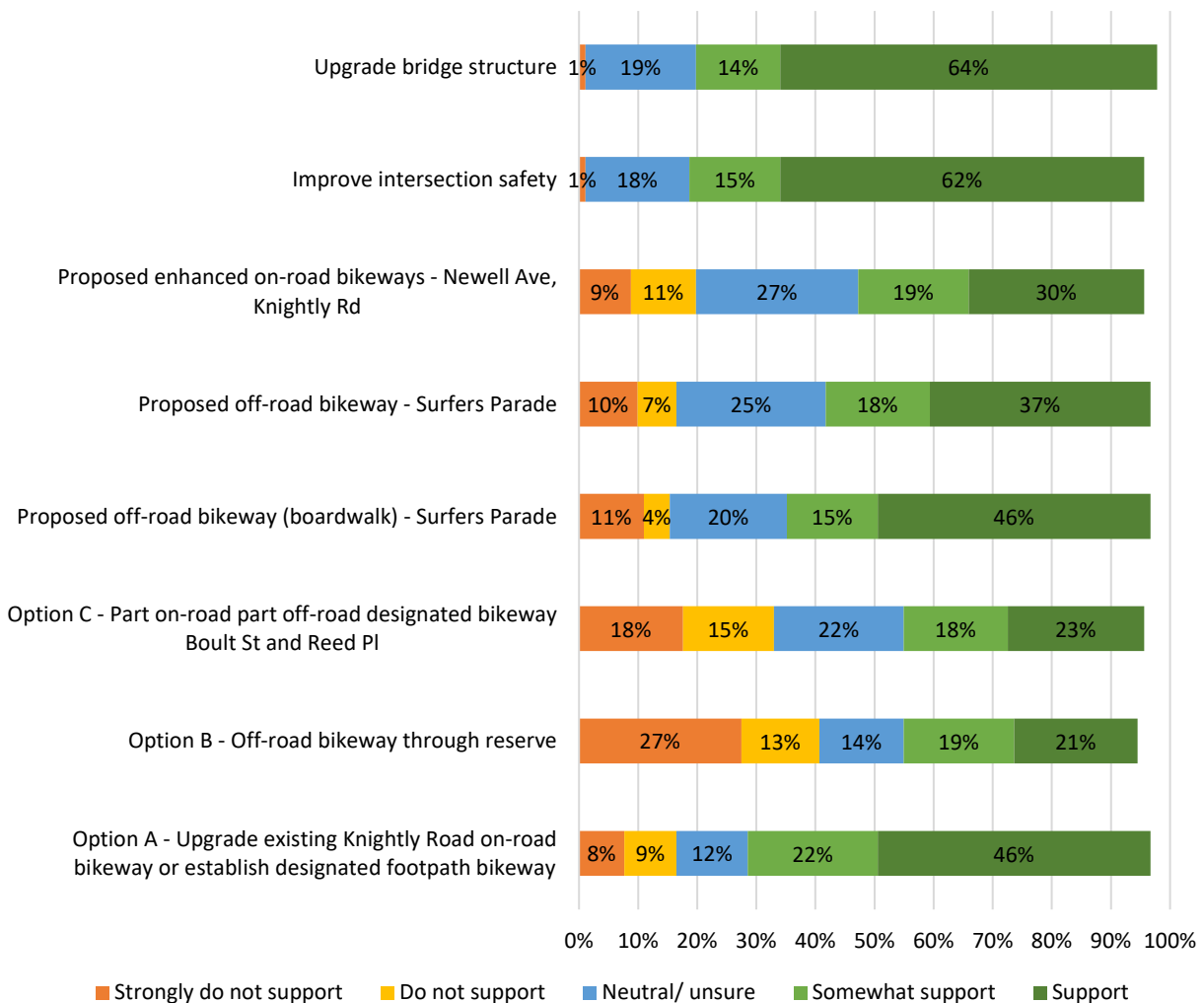


Figure 8 - Level of support for proposed upgrades to Surfers Parade/Goolwa Beach (Plan CP-06; 91 responses)

Goolwa Beach (Plan CP-07)

56 responses were received for Goolwa Beach (Plan CP-07). Figure 9 displays the results for this section.

Proposed upgrades to improve intersection safety and the off-road bikeway were both well supported with over 80% of combined respondents wither supporting or somewhat supporting the upgrades.

Reasons for supporting these upgrades included:

- Off-road track improves safety near restaurants
- Keeping the bikeway close to coast line keeps the elevation of the bikeway to a minimum, this is helpful for casual users and children
- Location on the western side of Beach Road is much safer

Support for the on-road bikeway upgrade was more divided. Although a combined 62% of respondents support or somewhat support the upgrade, the remaining approximately 40% of respondents were split between not supporting it or being neutral/unsure.

Reasons for not supporting the on-road bikeway or being neutral/unsure included:

- Nothing memorable along the on-road paths
- Conflicts along Bristow Smith Avenue including traffic, steep gradients and blind corners.

There was a view that the bikeway should be extended to Beacon 19 and the Barrages as it is a significant local heritage site of the river. The proposed off-road bikeway on the western verge of Beach Road would need to consider the Heritage Agreement which applies to the Goolwa Dunes to minimise damage to native vegetation.

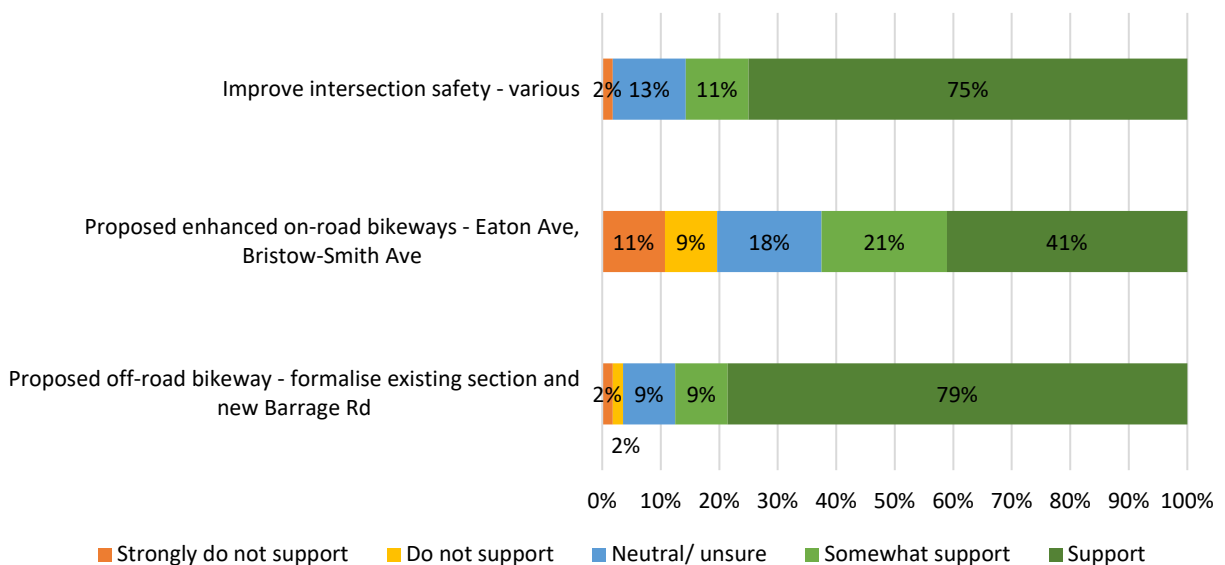


Figure 9 - Level of support for proposed upgrades to Goolwa Beach (Plan CP-07; 56 responses)

Barrage Road/Riverside Drive/Goolwa Wharf/Amelia Park/Richard Ballard Park (Plan CP-08)

60 responses were received for Barrage Road/Riverside Drive/Goolwa Wharf/Amelia Park/Richard Ballard Park (Plan CP-08). Figure 10 displays the results for this section.

Option A (Trail continues along shared road) route realignment received significantly stronger support than Option B. A combined 87% of respondents either supporting (82%) or somewhat supporting (5%) Option A. Reasons for supporting Option A included:

- Elimination of the dangerous unpaved section through the parking lot just east of the Hindmarsh Island Bridge
- Safer for cyclists particularly as Jaralde Park can get quite busy
- Makes sense to bring cyclists into the Wharf area
- Improved connectivity between boardwalk and adjoining paths at both ends

Reasons for not supporting or being unsure/neutral of Option B included:

- It is not the most direct route
- Not appropriate with the interface with the train and steep gradient

There was good support for both improving intersection safety and the off-road bikeway. 70% of combined respondents either support (57%) or somewhat support (13%) improving intersection safety. 65% of combined respondents either support (52%) or somewhat support (13%) the off-road bikeway.

Reasons for supporting improving intersection safety included the opportunity to straighten out the sharp bends.

There was less support for the on-road bikeway with more respondents combined being neutral/unsure or not supportive than those being supportive or somewhat supportive.

Reasons for supporting the off-road bikeway included the bikeway through Amelia Park removes conflict with motorists, particularly dangerous when vehicles are reversing.

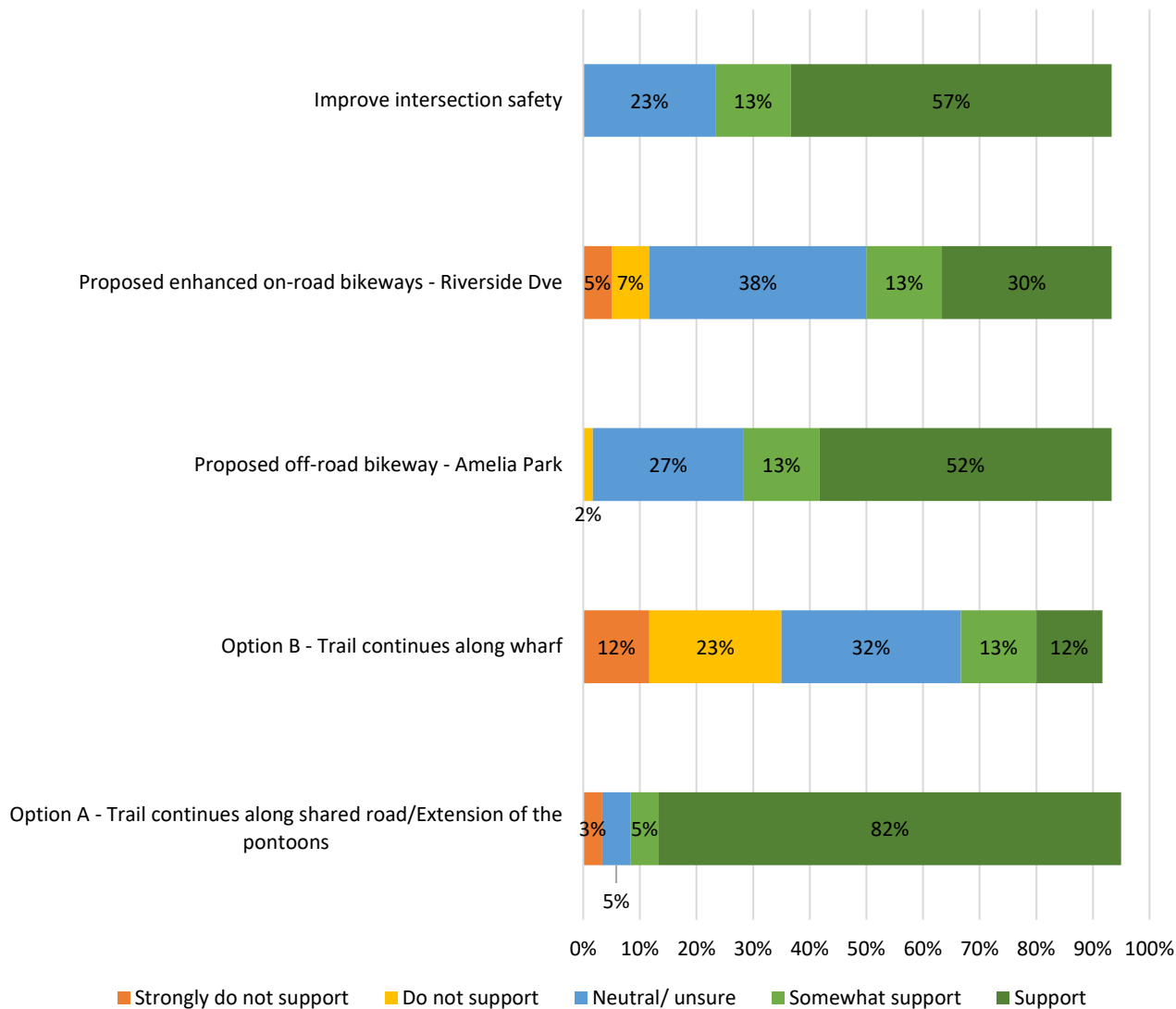


Figure 10 - Level of support for proposed upgrades to Barrage Road/Riverside Drive/Goolwa Wharf/Amelia Park/Richard Ballard Park (Plan CP-08; 60 responses)

Richard Ballard Park/Liverpool Road (Plan CP-09)

48 responses were received for Richard Ballard Park/Liverpool Road (Plan CP-09). Figure 11 displays the results for this section.

There was strong support for all upgrades in this section. All these upgrades were either supported or somewhat supported by more than 75% of combined respondents. Reasons for supporting these upgrades included:

- Improves safety and access
- Upgrades improve an already great section of the bikeway

Reasons for not supporting these upgrades included:

- The central vegetated median with new hardwood timber bollard ae hazardous for cyclists
- Safety concerns where the bikeway crosses through car parking areas.
- Upgrades such as replacing the pine barrier are unnecessary and expensive.

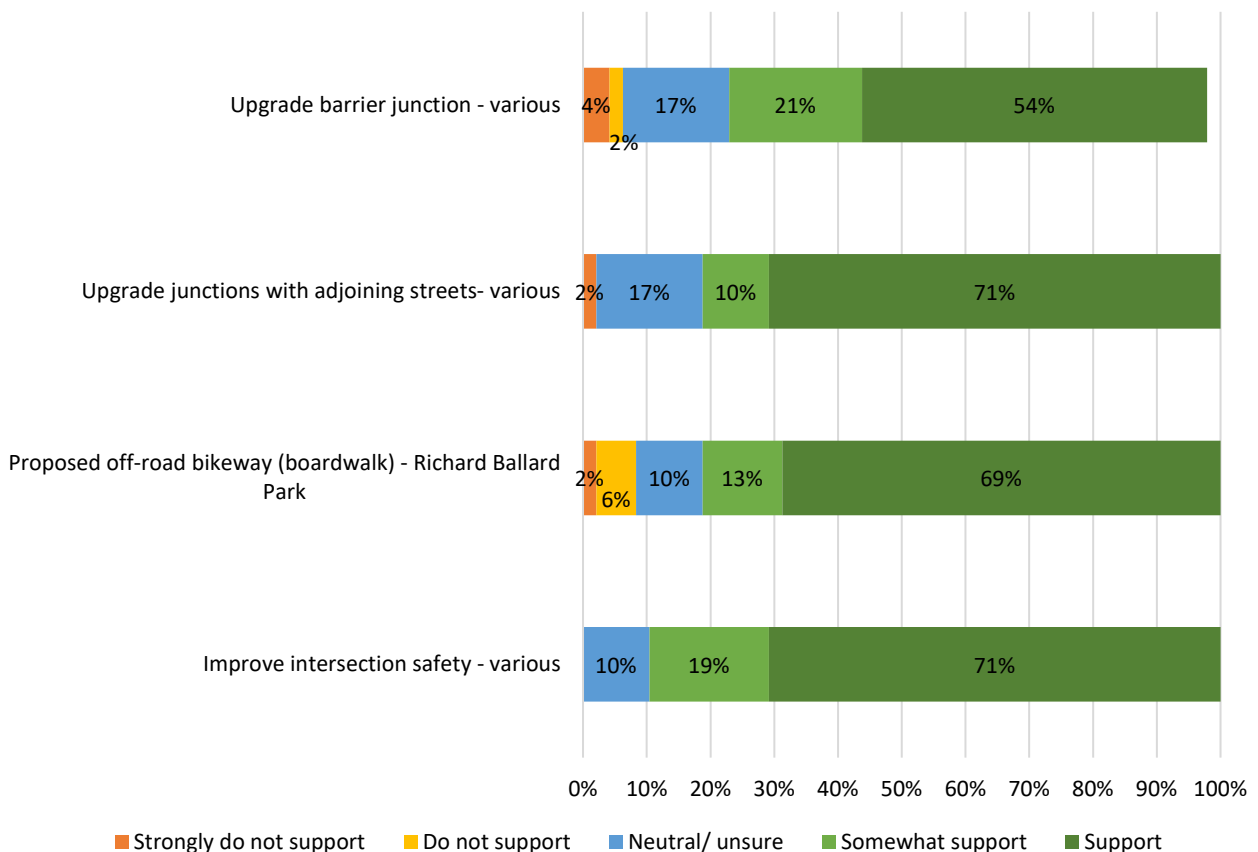


Figure 11 - Level of support for proposed upgrades to Richard Ballard Park/Liverpool Road (Plan CP-09; 48 responses)

Appendix A – Survey questions

Encounter Bikeway

Alexandrina Council has prepared draft concept plans for proposed upgrades to the Encounter Bikeway to improve safety, amenity and user experience.

The draft concept plans are divided into 9 sections of the Bikeway and can be viewed from Council's My Say Alexandrina website at www.mysay.alexandrina.sa.gov.au/encounterbikeway. Each section includes a variety of proposed upgrades including route realignment options, new off road or enhanced on road bikeways, intersection safety improvements and bridge upgrades.

You need to have viewed the draft concept plans prior to completing this survey.

The following survey will ask for your feedback on the 9 sections of the Bikeway. You can provide feedback on as many or as few of the sections as you wish by skipping to the next section.

Have your say by completing this survey by 5pm Sunday 5 June 2022.

Feedback received will be considered and the upgrade plans will then be finalised.

Thank you for providing your feedback.

ABOUT YOU

1. Please provide your name and email address if you wish to be kept informed about this project (OPTIONAL)

Name:

Organisation (if applicable):

Email:

2. How old are you? (COMPULSORY)

- <10
- 11-20
- 21-30
- 31-40
- 41-50
- 51-60
- 61-70
- 71-80
- 80+

3. What is your relationship to the Encounter Bikeway? (tick all that apply): (COMPULSORY)

- User of the Encounter Bikeway
- Nearby resident

- Nearby business
- Member of industry or community group
- Rate payer
- Visitor
- Other (please specify)

4. How do you use the Encounter Bikeway? (tick all that apply): (COMPULSORY)

- For fitness
- For commuting to shops, work, services, events, ou etc
- For a family or social outing
- Exploring the area
- Enjoying the scenery/nature
- Other (please specify)

YOUR FEEDBACK

5. Do you want to provide feedback on the DUMP BEACH/CHITON ROACKS/BULLIES BEACH (Plan CP-01) section of the Bikeway?

- Yes
- No (survey jumps to next section)

6. How strongly do you support each of the bikeway realignment options and upgrades for this section?

	Support	Somewhat support	Do not support	Neutral /Unsure
Option A (preferred) Establish new bikeway through coastal dunes , building upon existing sandy track. Route provides unique experience and links to beach access. Formalised fencing (at least 1200mm high) must be implemented along rail corridor				
Option B Establish Bikeway through reserve , capitalising on unique, spectacular views across region. Privacy concerns by adjacent residents. Minimise removal of existing vegetation				
Option C Existing on-road bikeway. Street becomes very busy during peak periods with many vehicles, pedestrians &				

cyclists using narrow street creating high probability for conflict. Existing stobie poles limit opportunity to establish designated bikeway. Install sharrows for improved safety, or underground powerlines to create designated bikeway				
Option D Alternative on-road bikeway route. Conditions similar to existing alignment & without any opportunities for enhanced user experience				
Proposed off-road bikeway				
Proposed enhanced on-road bikeway				
Upgrade bridge structure				

7. If you would like to comment on any of the options, or have indicated that you do not support some please help us to improve the plans by commenting below (optional)

8. Do you have any other feedback for how the user experience and safety could be improved in the DUMP BEACH/CHITON ROCKS/BULLIES BEACH (Plan CP-01) section of the Bikeway? (optional)

9. Do you want to provide feedback on the BOOMER BEACH /KNIGHT BEACH / PORT ELLIOT HEADLAND / HORSESHOE BAY (Plan CP-02) section of the Bikeway?

- Yes
- No (Survey jumps to next section)

10. How strongly do you support each of the bikeway realignment options for this section?

	Support	Somewhat support	Do not support	Neutral /Unsure
Option A (preferred) New link along embankment contour . Some vegetation removal required, although much of existing is exotic plant				

species. Opportunity to establish new lookout node with spectacular southern views				
Option B Utilise existing track, heritage stairs and landing . This option would require cyclist dismount to navigate stairs, and reconfiguring of kerb at carparking f Provide designated off-road bikeway or path widening				
Proposed off-road bikeway				
Proposed enhanced on-road bikeway				

11. If you would like to comment on any of the options, or have indicated that you do not support some please help us to improve the plans by commenting below (optional)

12. Do you have any other feedback for how the user experience and safety could be improved in the BOOMER BEACH /KNIGHT BEACH / PORT ELLIOT HEADLAND / HORSESHOE BAY (Plan CP-02) section of the Bikeway? (optional)

13. Do you want to provide feedback on the HORSESHOE BAY / BASHAMS BEACH (Plan CP-03) section of the Bikeway?

- Yes
- No (survey jumps to next section)

14. How strongly do you support each of the bikeway realignment options for this section?

	Support	Somewhat support	Do not support	Neutral /Unsure
Option A (preferred) Retain existing parallel parking along southern verge. Proposed designated off-road bikeway to capitalise on spectacular views and links to tourist destinations.				

Potential for new cantilevered boardwalk with viewing areas and seating				
Option B Potential for on-road bikeway, however precinct gets extremely busy during peak periods with high risk of conflict between vehicles and cyclists				
Proposed off-road bikeways				
Proposed enhanced on-road bikeway				
Improve intersection safety				

15. If you would like to comment on any of the options, or have indicated that you do not support some please help us to improve the plans by commenting below (optional)

16. Do you have any other feedback for how the user experience and safety could be improved in the HORSESHOE BAY / BASHAMS BEACH (Plan CP-03) section of the Bikeway? (optional)

17. Do you want to provide feedback on the RATALANG / BASHAM BEACH (plan CP-04) section of the Bikeway?

- Yes
- No (survey jumps to next section)

18. How strongly do you support the proposed upgrades for this section?

	Support	Somewhat support	Do not support	Neutral /Unsure
Proposed off-road bikeways				
Proposed enhanced on-road bikeway				
Upgrade bridge structure				
Improve intersection safety				

19. If you would like to comment on proposed off-road bikeway, or have indicated that you do not support it please help us to improve the plans by commenting below (optional)

20. Do you have any other feedback for how the user experience and safety could be improved in the RATALANG / BASHAM BEACH (plan CP-04) section of the Bikeway? (optional)

21. Do you want to provide feedback on the MIDDLETON / SURFERS PARADE (plan CP-05) section of the Bikeway?

- Yes
- No (survey jumps to next section)

22. How strongly do you support each of the bikeway realignment options and upgrades for this section?

	Support	Somewhat support	Do not support	Neutral /Unsure
Bikeway option A (preferred) Proposed designated bikeway alignment along Ocean Parade. Precinct is extremely busy during peak summer periods & events, with existing footpath becoming congested of potential conflict with pedestrians & vehicles. Increase width of existing path with potential new cantilevered boardwalk where necessary				
Bikeway option B Proposed on-road bikeway with contra-flow bikelanes space permitting				
Bikeway option C On-road bikeway link along Higgins Terrace				
Proposed off-road bikeways				
Proposed enhanced on-road bikeways				
Upgrade bridge structure				

Improve intersection safety				
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23. If you would like to comment on any of the options, or have indicated that you do not support some please help us to improve the plans by commenting below (optional)

24. Do you have any other feedback for how the user experience and safety could be improved in the MIDDLETON / SURFERS PARADE (plan CP-05) section of the Bikeway? (optional)

25. Do you want to provide feedback on the SURFERS PARADE / GOOLWA BEACH (plan CP-06) section of the Bikeway?

- Yes
- No (survey jumps to next section)

26. How strongly do you support each of the bikeway realignment options and upgrades for this section?

	Support	Somewhat support	Do not support	Neutral /Unsure
Bikeway option A (preferred) Upgrade existing on-road bikeway or establish designated bikeway by widening footpath to improve safety				
Bikeway option B Off-road bikeway through reserve. Note: Area subject to flooding and safety/privacy concerns from residents				
Bikeway option C Part on-road part off-road designated bikeway would require crossing flood plain and bikeway grade would actually be steeper than existing route				
Proposed off-road bikeway (Boardwalk)				
Proposed off-road bikeway				
Proposed enhanced on-road bikeways				

Improve intersection safety				
Upgrade bridge structure				

27. If you would like to comment on any of the options or upgrades, or have indicated that you do not support some please help us to improve the plans by commenting below (optional)

28. Do you have any other feedback for how the user experience and safety could be improved in the SURFERS PARADE / GOOLWA BEACH (plan CP-06) section of the Bikeway? (optional)

29. Do you want to provide feedback on the GOOLWA BEACH (plan CP-07) section of the Bikeway?

- Yes
- No (survey jumps to next section)

30. How strongly do you support each of the bikeway realignment options and upgrades for this section?

	Support	Somewhat support	Do not support	Neutral /Unsure
Proposed off-road bikeway				
Proposed enhanced on-road bikeways				
Improve intersection safety				

31. If you would like to comment on any of the upgrades, or have indicated that you do not support some please help us to improve the plans by commenting below (optional)

32. Do you have any other feedback for how the user experience and safety could be improved in the GOOLWA BEACH (plan CP-07) section of the Bikeway? (optional)

33. Do you want to provide feedback on the BARRAGE ROAD / RIVERSIDE DRIVE / GOOLWA WHARF / AMELIA PARK / RICHARD BALLARD PARK (plan CP-08) section of the Bikeway?

- Yes
- No (survey jumps to next section)

34. How strongly do you support each of the bikeway realignment options and upgrades for this section?

	Support	Somewhat support	Do not support	Neutral /Unsure
Bikeway option A (preferred) Trail continues along shared road with potential new pavement treatment and line-marking and signage to indicated slow shared zone				
Bikeway option B Trail continues along wharf; Possible conflict with other users, and surface issues with existing heritage wharf consisting of timber sleepers with significant gaps - a hazard to cyclist				
Bikeway option C Existing alignment				
Proposed off-road bikeway				
Proposed enhanced on-road bikeways				
Improve intersection safety				

35. If you would like to comment on any of the options or upgrades, or have indicated that you do not support some please help us to improve the plans by commenting below (optional)

36. Do you have any other feedback for how the user experience and safety could be improved in the BARRAGE ROAD / RIVERSIDE DRIVE / GOOLWA WHARF / AMELIA PARK / RICHARD BALLARD PARK (plan CP-08) section of the Bikeway? (optional)

37. Do you want to provide feedback on the RICHARD BALLARD PARK / LIVERPOOL ROAD (plan CP-09) section of the Bikeway?

- Yes
- No (survey jumps to next section)

38. How strongly do you support each of the bikeway realignment options and upgrades for this section?

	Support	Somewhat support	Do not support	Neutral /Unsure
Improve intersection safety				
Proposed off-road bikeway (Boardwalk)				
Upgrade junctions with adjoining streets				
Upgrade barrier junction				

39. If you would like to comment on any of the upgrades, or have indicated that you do not support some please help us to improve the plans by commenting below (optional)

40. Do you have any other feedback for how the user experience and safety could be improved in the RICHARD BALLARD PARK / LIVERPOOL ROAD (plan CP-09) section of the Bikeway? (optional)

41. Do you have any other comments on the draft concept plans for the Encounter Bikeway?

Free text comment box

SHAPING
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COMMUNITIES



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