



DRAWING SET:

- SHEET 1 - OVERVIEW PLAN
- SHEET 2 - USAGE AREA PLAN
- SHEET 3 - CHANNEL PRECINCT OVERVIEW
- SHEET 4 - NORTH CARPARK
- SHEET 5 - CENTRAL CARPARK
- SHEET 6 - CHANNEL PARKLAND CONCEPT
- SHEET 7 - CHANNEL & LOOKOUT CARPARK OVERVIEW
- SHEET 8 - CHANNEL CARPARK
- SHEET 9 - LOOKOUT CARPARK
- SHEET 10 - OCEAN BEACH PRECINCT (OVERVIEW)
- SHEET 11 - OCEAN BEACH PRECINCT (DETAIL)
- SHEET 12 - AERIAL PERSPECTIVES
- SHEET 13 - PROPOSED BYPASS ROAD LOCATION

OCEAN TO CHANNEL UPGRADES
concept plan



APRIL 2021

DRAFT
For Discussion

Prepared for the
Shire of Denmark



18 MAY 2021 - ATTACHMENT 9.1.2a

DRUM
landscape architecture



MATERIALS

1 OF 13
APRIL 2021

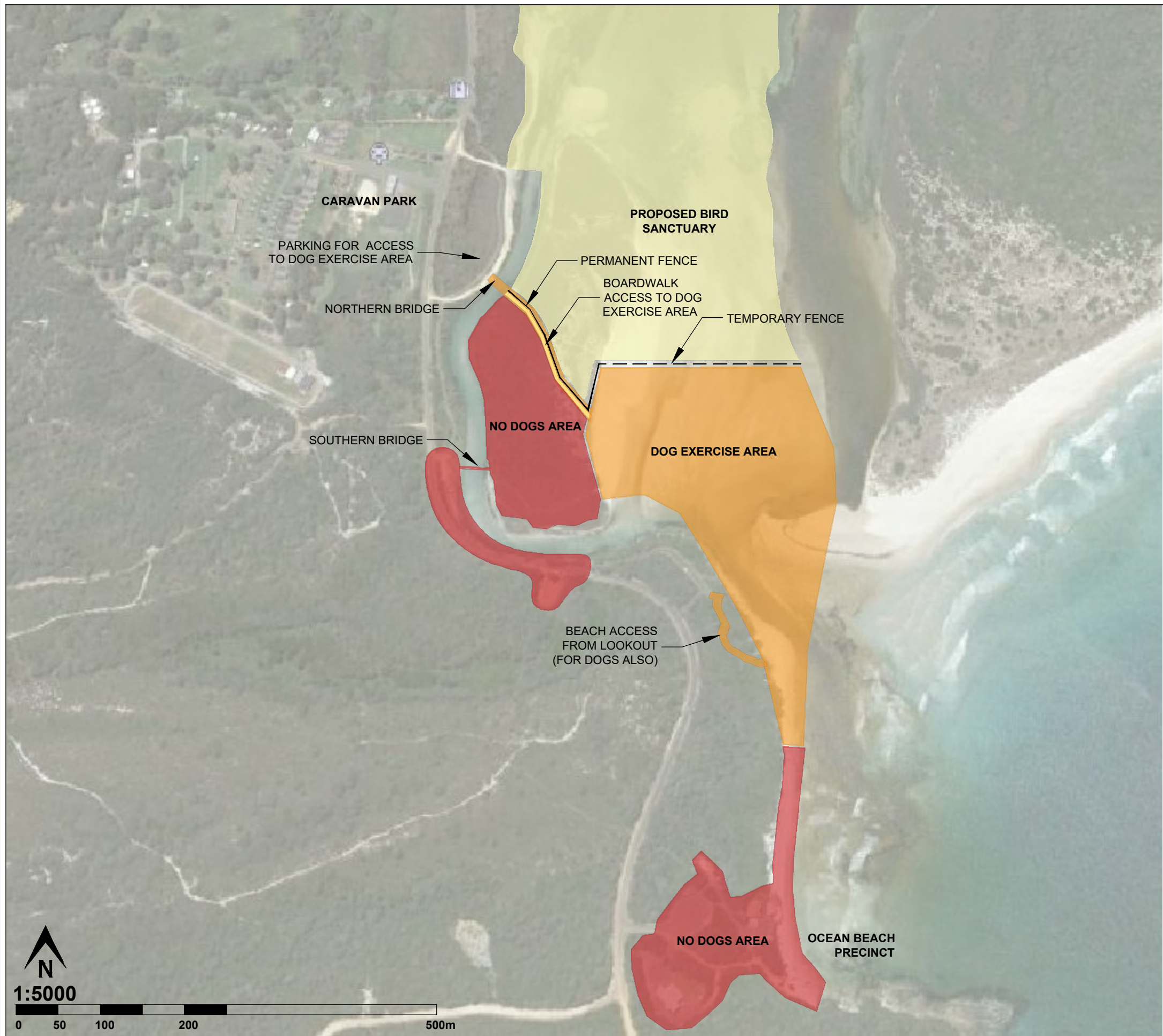
DRAFT
For Discussion

Prepared for the
Shire of Denmark



PRAWN ROCK CHANNEL UPGRADES concept plan - OVERVIEW

DRUM
landscape architecture



LEGEND

-  PROPOSED BIRD SANCTUARY
-  DOG EXERCISE AREA
-  NO DOGS ZONE

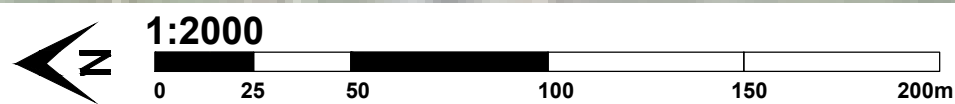
DRAFT
For Discussion

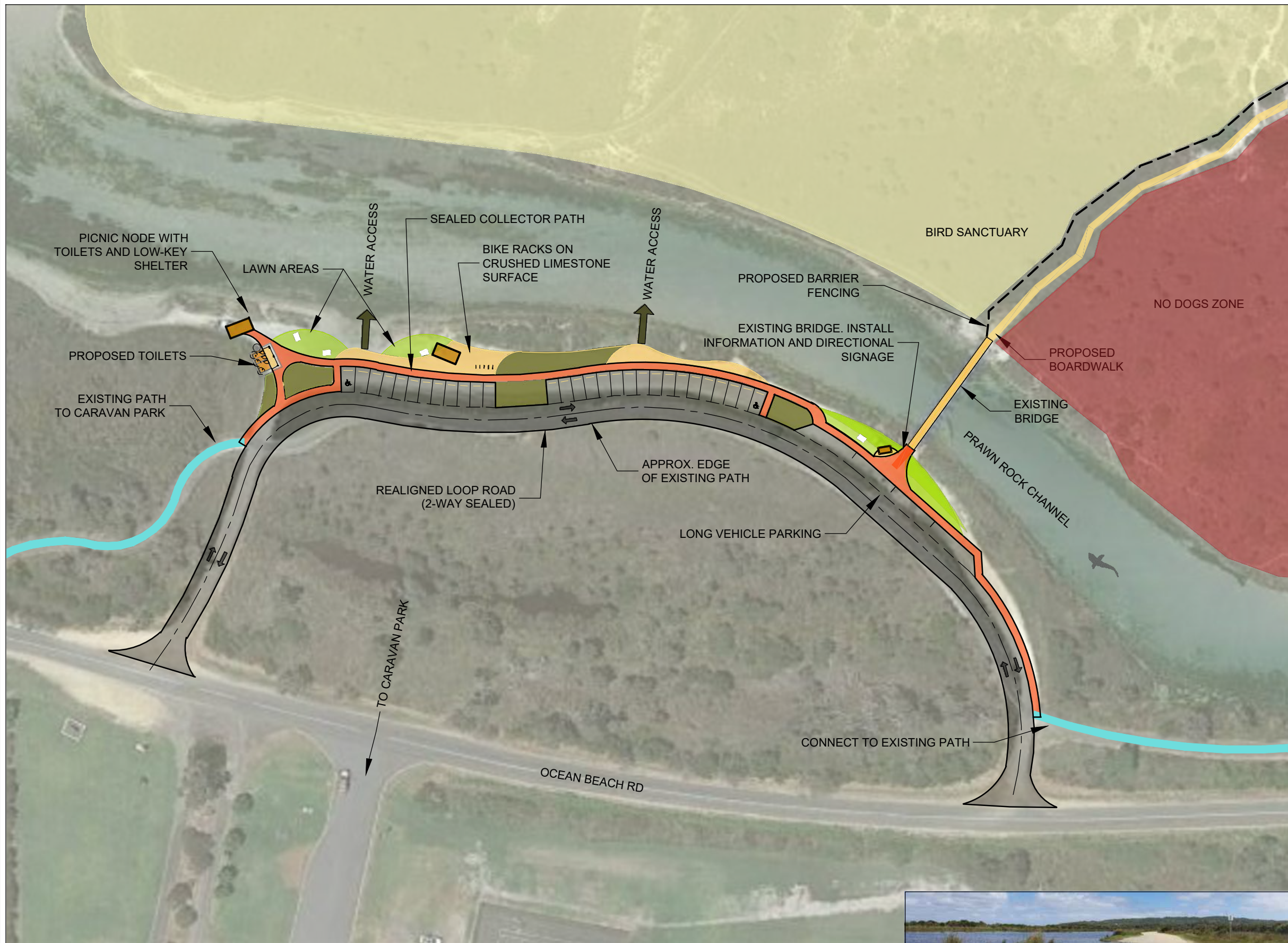
Prepared for the
Shire of Denmark



PRAWN ROCK CHANNEL UPGRADES
concept plan - USAGE AREA PLAN

DRUM
landscape architecture





4 OF 13
APRIL 2021

DRAFT
For Discussion

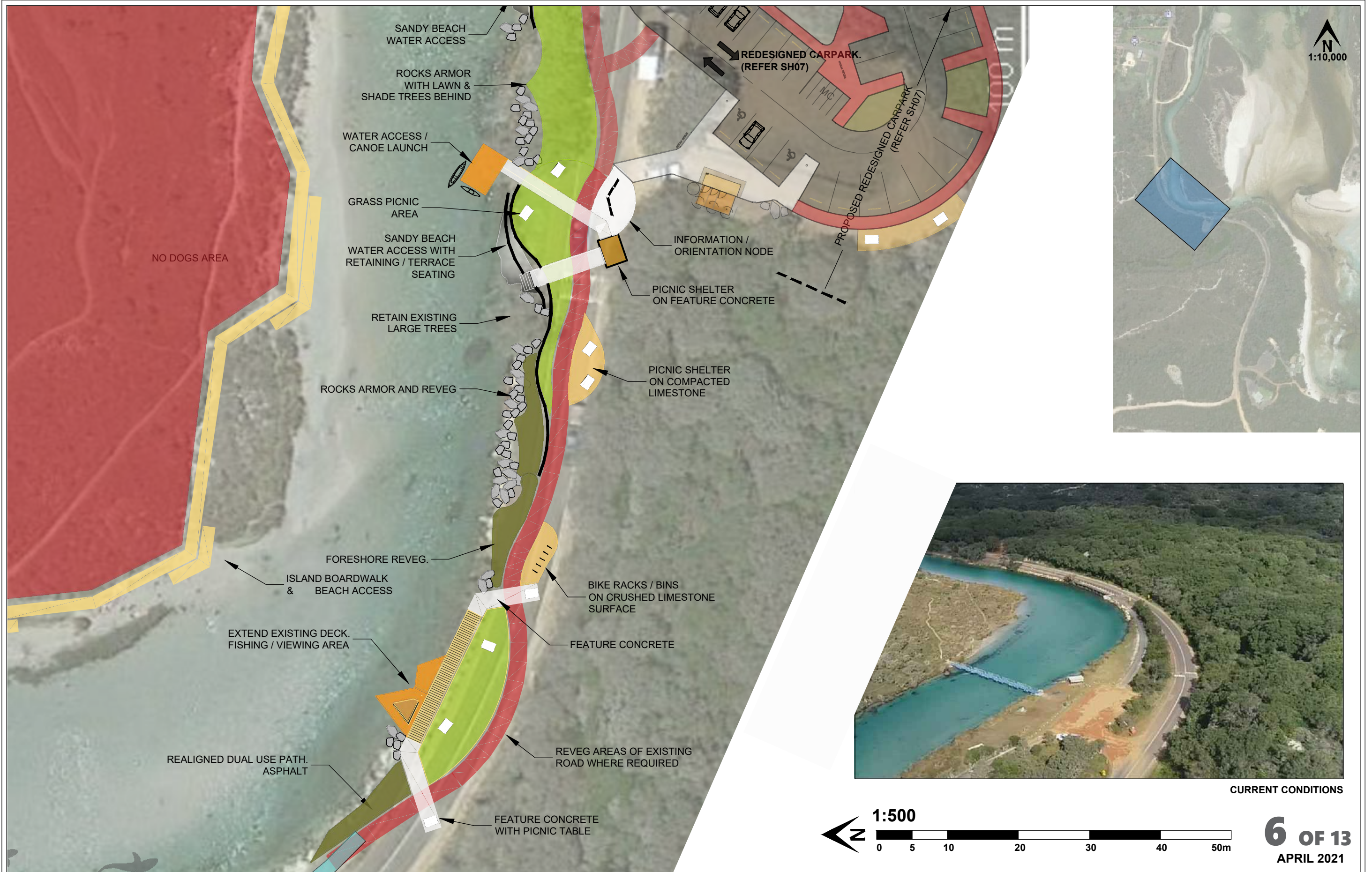


Prepared for the
Shire of Denmark

OCEAN TO CHANNEL UPGRADES

concept plan - NORTH CARPARK

DRUM
landscape architecture



DRAFT
For Discussion

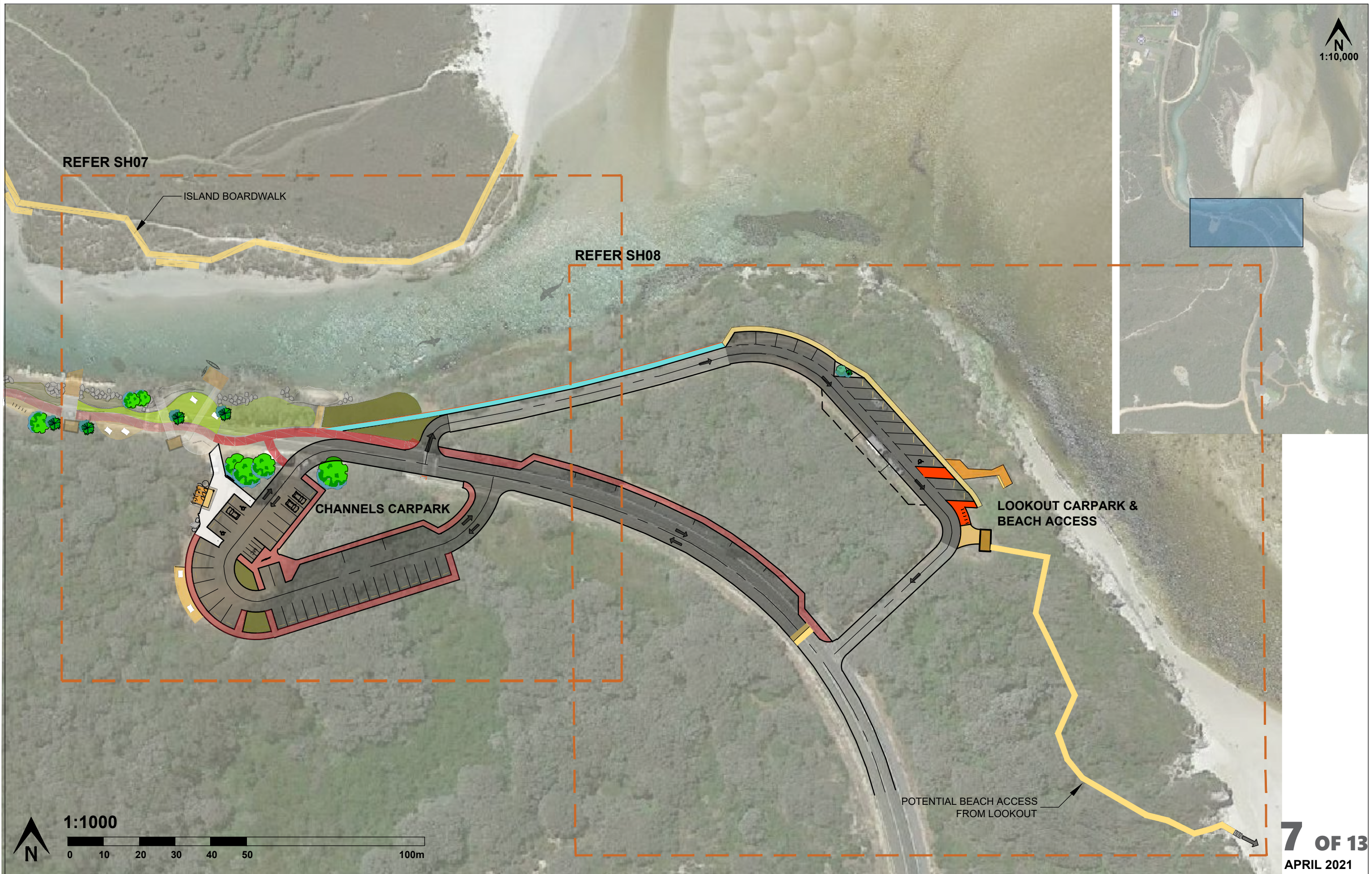
Prepared for the
Shire of Denmark



OCEAN TO CHANNEL UPGRADES **concept plan - CHANNEL PARKLAND**

DRUM
landscape architecture

6 OF 13
APRIL 2021



DRAFT
For Discussion

Prepared for the
Shire of Denmark

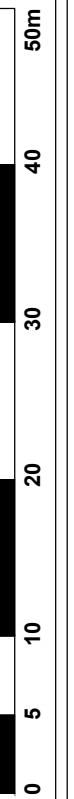


OCEAN TO CHANNEL UPGRADES

concept plan - CHANNEL & LOOKOUT CARPARK OVERVIEW

DRUM
landscape architecture

7 OF 13
APRIL 2021



DRAFT
For Discussion

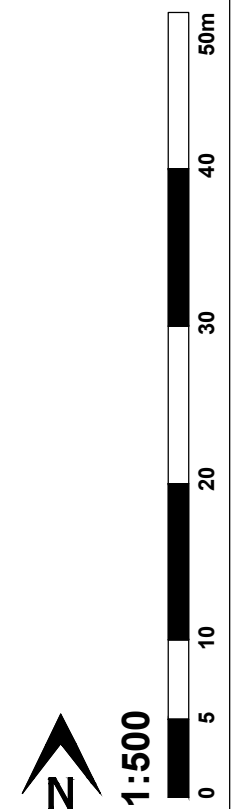
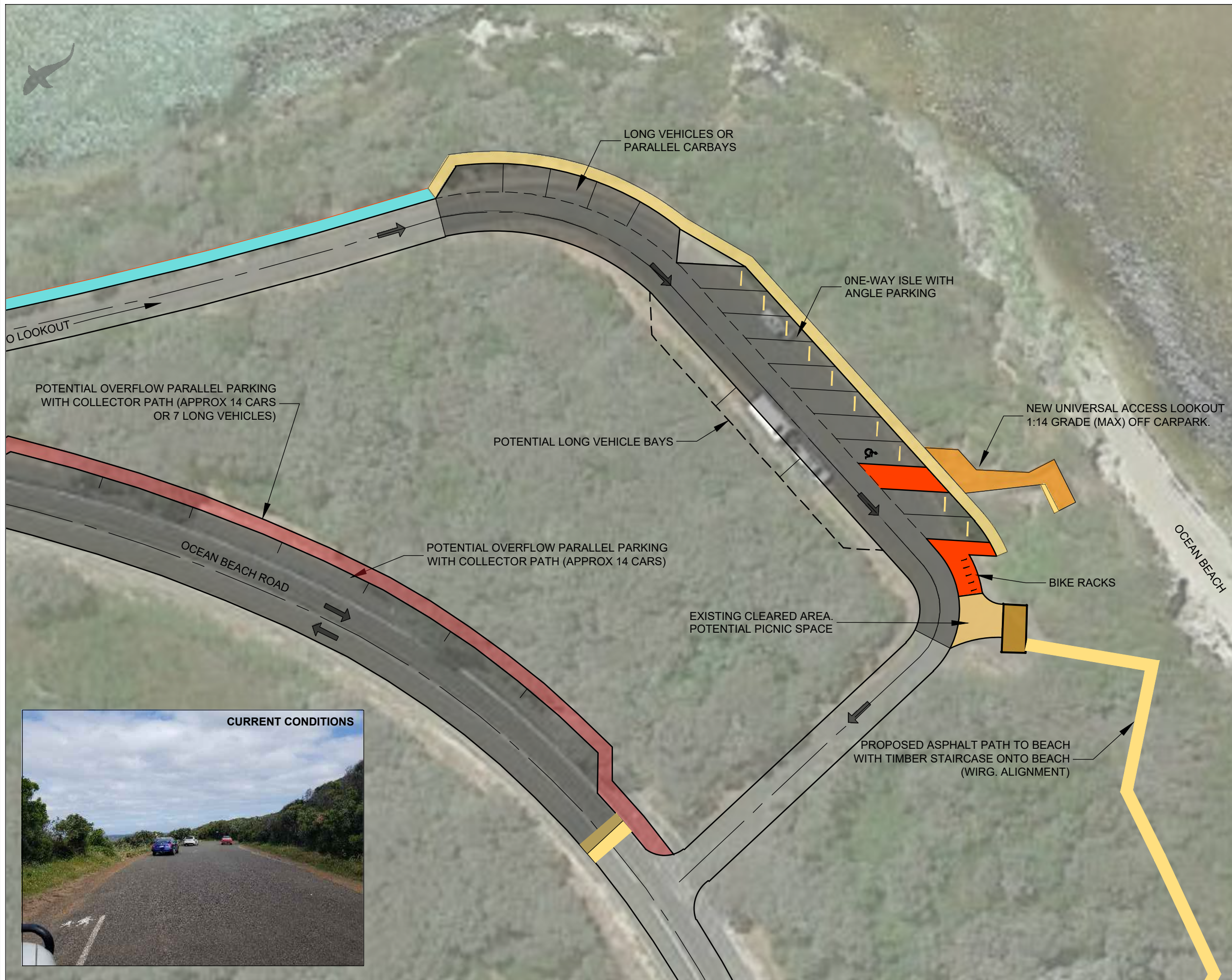
Prepared for the
Shire of Denmark



OCEAN TO CHANNEL UPGRADES

concept plan - CHANNEL CARPARK

DRUM
landscape architecture



OCEAN TO CHANNEL UPGRADES concept plan - LOOKOUT CARPARK & BEACH ACCESS



CURRENT CONDITIONS



N
1:1000
0 10 20 30 40 50 100m
10 OF 13
APRIL 2021

DRAFT
For Discussion

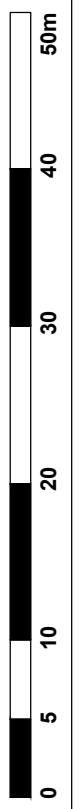


Prepared for the
Shire of Denmark

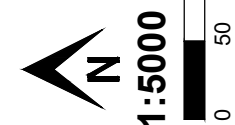
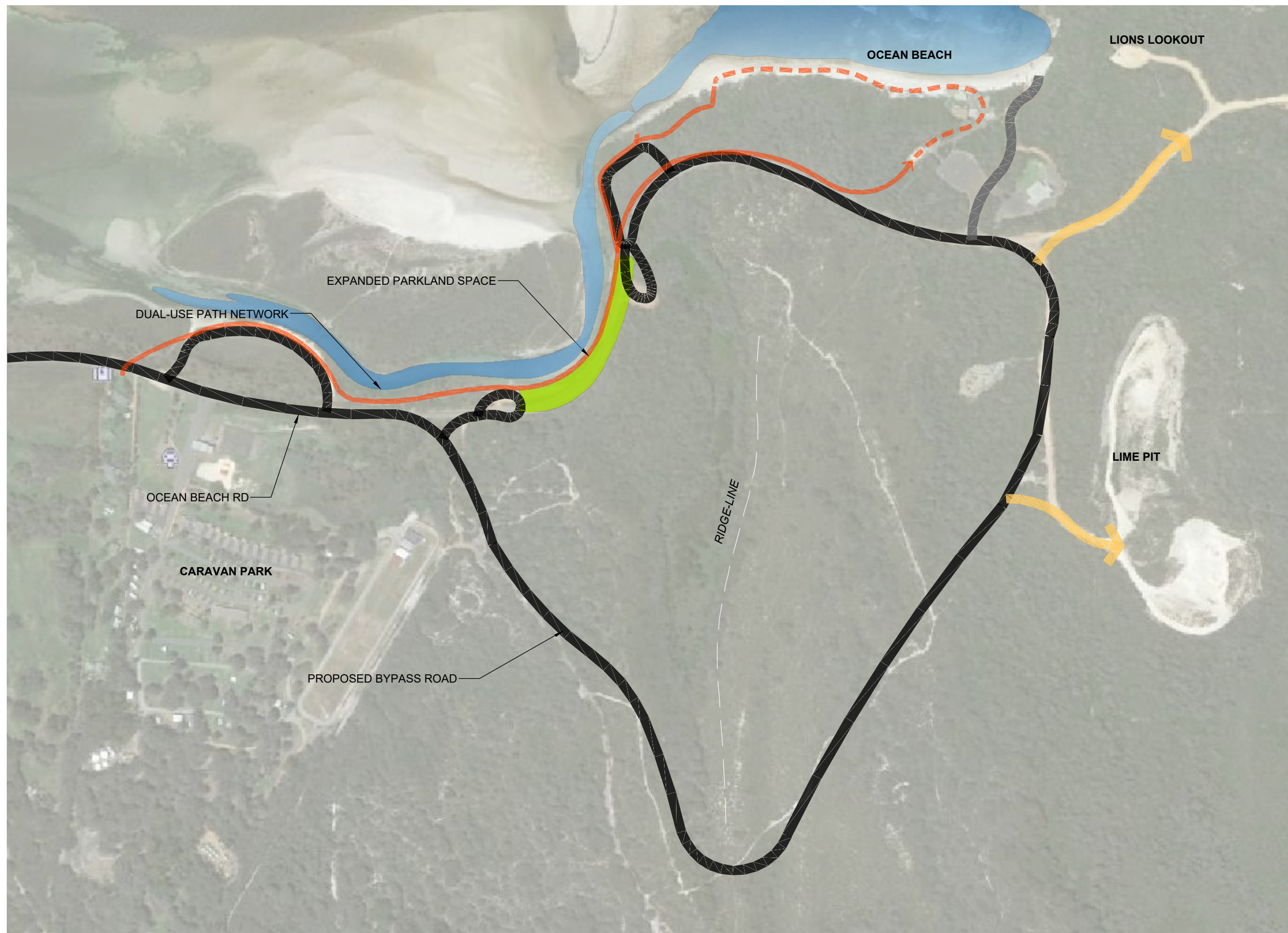
OCEAN TO CHANNEL UPGRADES

concept plan - OCEAN BEACH PRECINCT (OVERVIEW)

DRUM
landscape architecture







13 OF 13
APRIL 2021

DRAFT
For Discussion

Prepared for the
Shire of Denmark



OCEAN TO CHANNEL UPGRADES

concept plan - BYPASS ROAD CONCEPT

DRUM
landscape architecture

Attachment 9.1.2b - Consultation Plan for Ocean to Channel Detailed Design

1 Level of Engagement Public Participation Goals

1.1 Inform

Provide the public with balanced and objective information to assist them in understanding.

1.2 Consult

Obtain public feedback.

1.3 Involve

Work directly with the public to ensure public concerns and aspirations are understood and considered.

1.4 Collaborate

Partner with the public in each aspect of the decision including the development of alternatives and the identification of the preferred solution.

1.5 Empower

Place final decision making in the hands of the public.

2 Key Concepts and Proposed Engagement Level

The below presents each of the key concepts and proposed engagement level for each stakeholder. Once a project becomes funded, a detailed plan will be developed providing more timeframe and additional detail on each of the consultation methods associated with the level of engagement.

2.1 Bird Sanctuary

Stakeholder Group	Level of Engagement	Why
Denmark Bird Group	Collaborate	Major Stakeholder and will require two-way input into the design for it to be successful.
Department Water and Environmental Regulation	Collaborate	May be required to provide approval
Department of Transport	Collaborate	May be required to provide approval
Wilson Inlet Restoration Group	Involve	Key Stakeholder and will require two-way input into the design
Denmark Environment Centre	Involve	Concerns and aspirations need to be considered in high regard

Commercial Fisherman	Involve	Concerns and aspirations need to be considered in high regard
Boating & Angling Club	Consult	Key Community Group
Wider Community	Inform	Input has resulted in the endorsed concept of a bird sanctuary. The community needs to be informed of the progress and associated details as the project progresses.

Note: A Council item will be required for final approval of a bird sanctuary.

2.2 Road Realignment

Stakeholder Group	Level of Engagement	Why
Denmark Environment Centre	Collaborate	Major Stakeholder required to be involved in planning and design
South Coast Bushcare Services/Denmark Weed Action Group	Collaborate	Major Stakeholder required to be involved in planning and design
Department of Planning Lands & Heritage – Aboriginal Heritage	Involve	Key Stakeholder will require on site representation during excavation works and approvals if required.
Biodiverse Solutions	Consult	Lead Consultant for Flora & Fauna studies
Denmark Surf Lifesaving Club	Consult	Stakeholder for potential road connection with Ocean Beach Road and the entrance to the Ocean Beach Precinct to ensure the user groups are involved and considered.
Boating & Angling Club	Consult	Stakeholder for potential road connection with Ocean Beach Road and the entrance to the Ocean Beach Precinct to ensure the user groups are involved and considered.
Ocean Beach Caravan Park	Consult	Stakeholder for potential road connection with Ocean Beach Road and the entrance to the Ocean Beach Precinct to ensure the user groups are involved and considered.
Wider Community	Inform	Input has resulted in the endorsed concept. The community needs to be informed of the progress and

		associated details as the project progresses.
--	--	---

Note: Council resolution will be required for land administration matters associated with the creation of a road reserve.

2.3 Prawn Rock Channel Development Areas

Stakeholder Group	Level of Engagement	Why
Denmark Environment Centre	Collaborate	Major Stakeholder required to be involved in planning and design
South Coast Bushcare Services/Denmark Weed Action Group	Collaborate	Major Stakeholder required to be involved in planning and design
Department of Planning Lands & Heritage – Aboriginal Heritage	Involve	Key Stakeholder will require on site representation during excavation works and approvals if required.
Wilson Inlet Restoration Group	Involve	Key Stakeholder will involve two way input into the design
Wilson Inlet Catchment Committee	Consult	Key Stakeholder will involve two way input into the design
Biodiverse Solutions	Consult	Lead Consultant for Flora & Fauna studies
Denmark Surf Lifesaving Club	Consult	Key Stakeholder as a user group of the area
Ocean Beach Caravan Park	Consult	Stakeholder for potential road connection with parking and flow of traffic with business.
Wider Community	Inform	Input has resulted in the endorsed concept. The community needs to be informed of the progress and associated details as the project progresses.

Note: Council will be updated at each stage of the design process.

2.4 Ocean Beach Precinct Development

Stakeholder Group	Level of Engagement	Why
Denmark Surf Lifesaving Club	Collaborate	Major Stakeholder will involve two way input into the design
Denmark Environment Centre	Involve	Key Stakeholder will involve two way input into the design
South Coast Bushcare Services/Denmark Weed Action Group	Involve	Key Stakeholder will involve two way input into the design
Biodiverse Solutions	Involve	Lead Consultant for Flora & Fauna studies

Boating and Angling Club	Involve	Key Stakeholder will involve two way input into the design
Department of Planning Lands & Heritage – Aboriginal Heritage	Consult	May be required to provide approvals.
Wider Community	Inform	Input has resulted in the endorsed concept. The community needs to be informed of the progress and associated details as the project progresses.

Note: Council will be updated at each stage of the design process.

Ocean to Channel Recreation Precinct

You told us...

What you love

Family friendly
Views to the Turbines
Walking Dog
Close access from carpark
Birdlife
Blue channel
Natural / beauty
Swimming
Bridges
Aquatic life – prawns, fish, crabs
Calm waters
Recreation
Picnics
Meeting place
Access bridges
Safe for children
Recreation with family and dog
Walk trails, flowers in spring
Park bench, views and tourist spot at the lookout

What needs work

Installation of Toilets
Access to the eastern end of Ocean Beach from Prawn Rock area – stairway access
Provide better access for all, and improve Prawn Rock Lookout - walkway to lookout
Development of the island area, improved trails, grassed areas (family picnic spaces), shaded areas, seats, shelters, boardwalks
Increase & improve parking areas and access, designated pedestrian crossing, traffic calming devices and improved visibility
Improved safety in regards to traffic, heavy haulage and families recreating at Prawn Rock – proposed bypass road, Ocean Beach made one way and reduced to 20 km/h.
Drinking water stations, secure areas for bikes
Outside grassed terracing at Ocean beach
Improved access for mobility impaired to the beach, accessible trails
BBQ's
Educational / informative signage
Beach access to the off-lead area, wider footpaths, review bird nesting fenced areas
Revise, maintain off leash dog areas
Outdoor handwashing areas
Access for fishing, larger fishing jetty
Channel areas mow goat track between bridges, mow, tidy up around Ocean Beach side of channel

Your ideas

Toilets
Walk through Lions Lookout, stairs down from Lions lookout, extension of footpath from Ocean Beach to the lookout adjacent to lookout road
Alternative dog beach access
Tidal flats secured for bird nesting, Bird sanctuary, protect breeding areas
Slow down traffic, footpath and cycleway
Road realignment away from prawn rock channel precinct
Connect to WOW trail
Green water - all year round green water swimming, dredging all year opening of inlet
Trails from the bridges could be expanded
Timber 'natural' looking bridges, bridges you can kayak under
Boardwalk to allow all year access to sand flats
Additional parking
Shaded well maintained areas, seats, shelters, boardwalks, rope swing
Boat ramp, Ocean pool

Surf Live Saving Building

What you would like to see:

Community amenity, public café/restaurant, open on weekends and holidays, change rooms, showers, toilets, water points, interpretative signage information, space for food vans, grassed terraced seating, shared use tables and chairs, protection from wind, mobile coverage, rainwater tanks, large entertainment area, music venue, smaller meeting / training rooms, accessibility, gym



Proposed Ocean Beach Recreation Precinct Summary of flora, vegetation, and fauna survey

In October 2020, a Reconnaissance level flora (plants) and vegetation survey and a Basic level fauna (animal) survey was undertaken within the proposed Ocean Beach Recreation Precinct area by Bio Diverse Solutions. This is a brief summary of the key findings of the survey:

Vegetation, Threatened and Rare Flora and Ecological Communities

The aim of this survey was to provide information on any threatened or rare plant species and threatened ecological communities which might be present in the proposed Precinct area. The vegetation types were also recorded and mapped, as well as the general condition of the vegetation.

The survey recorded 6 vegetation types, and a total of 128 plant species, 28 of these being introduced (weed) species. Condition of vegetation ranged from 'Good' to 'Excellent' throughout the site, the majority in 'Very Good' or 'Excellent' condition. The two weed species of most concern recorded were Arum Lily and Sydney Golden Wattle. 89 individuals of the Priority 4 species *Banksia sessilis* var. *cordata* were recorded at several locations within the proposed Precinct area, all within 350m of Ocean Beach. 'Priority 4' means that this species is rare, near threatened or in need of monitoring.

Before the survey, the 'Subtropical and Temperate Coastal Saltmarsh' Threatened Ecological Community was identified as possibly being present on Prawn Channel Island, which was reinforced during the survey. A Threatened/Priority Ecological Community is protected by State and Federal legislation, and should any works, formalisation of paths etc be planned on the island a more detailed scientific survey will be needed to formally confirm the presence of this Threatened Ecological Community before proceeding further.

Fauna survey

The aim of this survey was to record and map habitat for animals (fauna) within the proposed Precinct area, to gauge the likelihood of threatened or rare fauna species using the area or particular vegetation types, recording any rare or threatened fauna encountered and also compiling a general list of fauna encountered during the survey.

The survey recorded 43 fauna species in total, of these 34 were birds, 3 were mammals, 1 was an amphibian and 5 were reptiles.

Rare or threatened bird species recorded during the survey included Endangered Baudin's and Carnaby's Black Cockatoos which are likely feeding in the area, as well



as numerous species of shorebirds including the Vulnerable Hooded Plover at the mouth of the Wilson Inlet in the vicinity of Prawn Channel Island.

Peppermint forest within the proposed Precinct area is providing habitat for small mammal species such as Southern Brown Bandicoot (Quenda, a Priority 4 species), and many diggings and small tunnels (runnels) were observed. Two dreys constructed by the Critically Endangered Western Ringtail Possum (Ngwayir) were observed in peppermint forest near Ocean Beach, providing strong evidence that this vegetation is providing feeding and/or breeding habitat.

Suitable habitat for the Threatened *Mains Assassin* spider was also identified in coastal heath and peppermint forest vegetation within the proposed Precinct area, and would require a more thorough survey to confirm the presence or absence of this species.

Need more information or explainers? Here are some links:

- [Conservation Codes for Western Australian Flora and Fauna](#)
- [Detailed information on the Subtropical and Temperate Coastal Saltmarsh Threatened Ecological Community](#)
- [Main's Assassin Spider](#)
- [Western Ringtail Possum \(Ngwayir\)](#)