

WERRIBEE SOUTH BEACH MASTERPLAN CONCEPT DESIGN REPORT



ACKNOWLEDGEMENT OF TRADITIONAL OWNERS

Enlocus acknowledges the Traditional Owners of the lands and waters around Werribee South, the Bunorong and Wadawurrung people of the Kulin Nations, and pays respect to their Elders - past, present and emerging - and recognises their long and continuing connection to the waters, lands, skies and everything that makes Country.

PROJECT ACKNOWLEDGEMENTS

Enlocus would like to thank and acknowledge the input and assistance of Wyndham City Council in the development of this document.

Prepared by Enlocus for



Project Number 2203

Revision	Status	Date	By	Checked	Approved
B07	CONCEPT DESIGN	25/7/22	WM	MRF	

Project Contacts:

SUE NEALE, COASTAL PLANNING & PROJECTS OFFICER, WYNDHAM CITY COUNCIL

Cover Image: Mouth of the Werribee River and You Yangs as seen from Werribee South Foreshore Reserve
Back Page Image: Coastal dunes looking out to Wyndham Harbour

CONTENTS

SITE	4
EXISTING SITE PLAN	6
SITE CONTEXT	7
EXISTING CONNECTIONS	8
PATH CONDITION	9
KEY VIEWPOINTS	10
VIEW LINES	11
DUNE OPPORTUNITIES	12
FORESHORE LAWNS	13
PARKING CATCHMENTS	14
WIND PROTECTION AND EXPOSURE	15
CONCEPT DESIGN	16
WERRIBEE SOUTH BEACH SITE PLAN	18
MASTERPLAN AREA A	19
MASTERPLAN AREA B	20
MASTERPLAN AREA C	21
DESIGN ELEMENTS FOR AREA A	22
DESIGN ELEMENTS FOR AREAS B + C	23
PRECEDENT BOARD	24
FURNITURE - LONG SEAT	26
EXISTING VEGETATION	27
PLANTING SCHEME	28
NODE 1: WETLAND DECK	30
WETLAND DECK VIEW	31
NODE 2: ORANGE BELLIED PARROT PLAYGROUND	32
PLAYGROUND VIEW	33
NODE 4A: BEACH PRECINCT - TOILETS	34
NODE 4B: BEACH PRECINCT - SHELTERS	35
NODE 4C: BEACH PRECINCT - MAIN BEACH ENTRY	36
BEACH ENTRY DECK VIEW	37
NODE 5: EAST DECK ENTRY	38
NODE 6: FISHING DECK	40
FISHING DECK VIEW	41





SITE



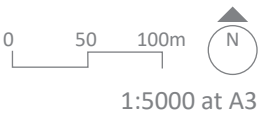
EXISTING SITE PLAN



LEGEND

EXISTING FEATURES:

TOILET		BASKETBALL COURT		SWIMMING AREA	
PLAYGROUND		CAFE			
FOOTBALL OVAL		FISHING SPOT			
SKATEPARK					





EXISTING PLAYGROUND IN HIGHLY VISIBLE POSITION ON FORESHORE



VIEW FROM THE WERRIBEE SOUTH FORESHORE RESERVE TOWARDS THE WERRIBEE RIVER AND THE YOU YANGS



CORNER OF DIGGERS ROAD AND BEACH ROAD: WHERE THE FORESHORE ENDS AND THE WETLANDS BEGIN



DUNE VEGETATION, PRIMARILY MADE UP OF COAST SALTBUSH (ATRIPLEX CINEREA), CREATES A BUFFER BETWEEN THE BEACH AND THE EXPANSIVE FORESHORE LAWNS



FAST BEACH: AN OPPORTUNITY FOR



A STEEP HEADLAND CREATES A TIGHT THOROUGHFARE ON THE EXISTING SHARED PATH



LEGEND

EXISTING 2.5M WIDE
SHARED PATH TO BE
RETAINED

EXISTING RC PATH TO BE
RETAINED

EXISTING SHARED TRAIL
TO BE WIDENED TO 2.5M



PATH CONNECTION
OPPORTUNITY

BEACH ACCESS PATH
OPPORTUNITY

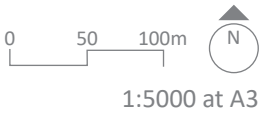


DECKING OPPORTUNITY

STAIR ACCESS
OPPORTUNITY

RAISED PEDESTRIAN
CROSSING OPPORTUNITY

DUNE PATH OPPORTUNITY





1 1 - 1.5m WIDE EXISTING PATH SECTION TO BE WIDENED TO 2.5m ON DECK SECTION



2 2.5 - 3m WIDE EXISTING PATH SECTION TO BE RETAINED



3 NEW ACCESSIBLE DECK PATH TO CONNECT PLAYGROUND TO BAY TRAIL



4 EXISTING STEEP PATH SECTION TO BE REGRADED AND REPLACED WITH 2.5m RC SECTION



5 EXISTING 2.0m WIDE SECTION TO BE REPLACED WITH 2.5m BAY TRAIL SECTION



6 EXISTING CLIFFSIDE SECTION TO BE WIDENED ONTO DECK SECTION WITH PILE FOOTINGS



LEGEND

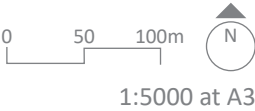
VIEWPOINT

PROPOSED VIEWPOINT

VIEW TO CBD SKYLINE

VIEW TO WERRIBEE RIVER AND YOU YANGS

KEY VIEWS TO WATER





1 VIEW TO GRAHAM'S WETLAND RESERVE



2 VIEW TO WERRIBEE RIVER



3 VIEW TO WERRIBEE RIVER



4 VIEW OVER FORESHORE DUNES



5 LONG VIEW ALONG BEACH AND DUNE



6 VIEW OVER EAST BEACH TO HARBOUR AND CBD SKYLINE



LEGEND

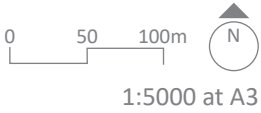
EXISTING DUNE VEGETATION

OPPORTUNITY TO STRENGTHEN DUNE

EXISTING FORMAL CONNECTION

EXISTING INFORMAL CONNECTION

PROPOSED DUNE FENCING





LEGEND

EXISTING LAWN

CONNECTION TO LAWN

SIGNIFICANT INCLINE

EXISTING GRADE



1 EMBANKMENT NEAR GRAHAM'S RESERVE



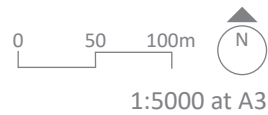
2 STEEP LAWN BETWEEN BAY TRAIL AND PLAYGROUND



3 EXISTING STORMWATER PIPE MUST BE SPANNED OVER BY FUTURE BEACH ACCESS PATH



4 STEEP EMBANKMENT OCCUPIES MUCH OF THE EASTERN LAWN





LEGEND

EXISTING CARPARK



PROPOSED OVERFLOW CARPARK



1 BOAT RAMP PARKING + SPILLOVER PARKING

EXISTING ACCESSIBLE CAR SPACE



PROPOSED ACCESSIBLE CAR SPACE



2 23 SPACES + 2 ACCESSIBLE SPACES

EXISTING OVERFLOW CARPARK



3 26 SPACES + 2 ACCESSIBLE SPACES + 6 MOTORBIKE SPACES

100m RADIUS FROM CARPARK



4 24 SPACES + 2 PROPOSED ACCESSIBLE SPACE

5 24 SPACES + 1 ACCESSIBLE SPACE

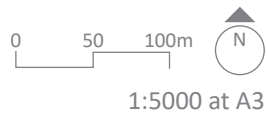
6 18 SPACES + 1 PROPOSED ACCESSIBLE SPACE

7 3 SPACES + 4 MOTORBIKE SPACES

8 3 SPACES

9 3 SPACES + 1 PROPOSED ACCESSIBLE SPACE

10 15 SPACES + 1 PROPOSED ACCESSIBLE SPACE



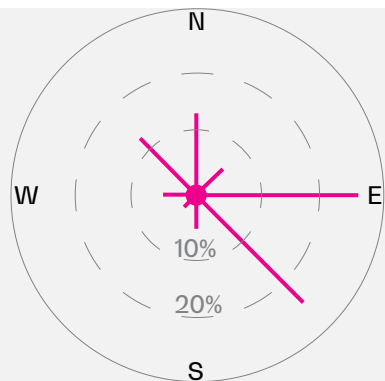


LEGEND

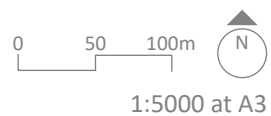
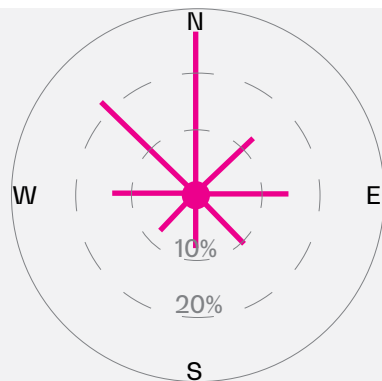
EXISTING SCREENING
VEGETATION



WINTER PREVAILING
WIND



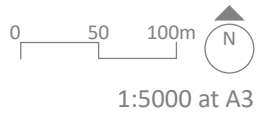
SUMMER PREVAILING
WIND





CONCEPT DESIGN





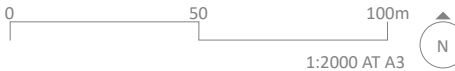
WERRIBEE SOUTH BEACH MASTERPLAN

AREA A

SCHEMATIC DESIGN

LEGEND

- N2 ACTIVITY NODE - SEE 'DESIGN ELEMENTS'
- D DRINK FOUNTAIN
- B BIKE END OF TRIP FACILITIES
- P EXISTING PARKING TO BE RETAINED
- EXISTING BUILDING TO BE RELOCATED
- EXISTING PATH TO BE DEMOLISHED
- EXISTING PARK LIGHT TO BE REPLACED WITH SOLAR LIGHTING
- EXISTING PATH LIGHT TO BE RELOCATED TO BAY TRAIL
- BENCH TO BE RETAINED OR REPLACED
- BALUSTRADE EDGE DETAIL
- PROPOSED DUNE FENCING
- PICNIC SHELTER WITH TABLE SETTINGS
- 3.0M WIDE PATH AT ACTIVITY NODE
- 1 LOOKOUT TOWARDS GRAHAM'S WETLAND RESERVE
- 2 FUTURE PATH CONNECTION TO WERRIBEE RIVER
- 3 STEPPED DOWN SEATING
- 4 PLANTED BUFFER ON ROAD EDGE
- 5 BAY TRAIL - 400M EXISTING SECTION RETAINED
- 6 FUTURE PATH CONNECTION TO BOAT RAMP AND LAUNCH PLATFORM
- 7 SEATING AREA
- 8 EXISTING TOILETS FOR FUTURE RENEWAL
- 9 PICNIC SHELTERS (INCLUDES TABLE SETTINGS)
- 10 LONG TIMBER SEAT
- 11 REFRESH PLANTING
- 12 BEACH ENTRY DECK
- 13 PLANTED PLAYGROUND BORDER
- 14 BAY TRAIL WIDENED TO 2.5M / 3.0M WHERE POSSIBLE
- 15 UPGRADED PLAYGROUND
- 16 RETAIN SAND GROOMER ACCESS
- 17 BANKSIA GROVE
- 18 REFURBISH SEATING STEPS
- 19 ELEVATED WALKWAY ACCESS TO PLAYGROUND AND LOOKOUT
- 20 NEW PATH SECTION AT SHALLOW GRADE
- 21 DEMOLISH EXISTING STEEP PATH SECTION
- 22 GRANITIC SAND DUNE PATH
- 23 FITNESS EQUIPMENT
- 24 STAIR ACCESS TO BEACH
- 25 ADDITIONAL DUNE PLANTING
- 26 DUNE PROTECTION FENCE



WERRIBEE SOUTH BOATING FACILITY UPGRADE
PROJECT AREA LED BY BETTER BOATING VICTORIA

PEAK USE SUMMER OVERFLOW PARKING AREA ON
GRASS ADJACENT TO THE OVAL AND TENNIS COURTS

WERRIBEE SOUTH BEACH MASTERPLAN

AREA B

SCHEMATIC DESIGN

LEGEND

- N2** ACTIVITY NODE - SEE 'DESIGN ELEMENTS'
- D** DRINK FOUNTAIN
- B** BIKE END OF TRIP FACILITIES
- P** EXISTING PARKING TO BE RETAINED
- EXISTING BUILDING TO BE RELOCATED
- EXISTING PATH TO BE DEMOLISHED
- EXISTING PARK LIGHT TO BE REPLACED WITH SOLAR LIGHTING
- EXISTING PATH LIGHT TO BE RELOCATED TO BAY TRAIL
- BENCH TO BE RETAINED OR REPLACED
- BALUSTRADE EDGE DETAIL
- PROPOSED DUNE FENCING
- PICNIC SHELTER WITH TABLE SETTINGS
- 3.0M WIDE PATH AT ACTIVITY NODE
- 25** ADDITIONAL DUNE PLANTING
- 26** DUNE PROTECTION FENCE
- 27** FOOD TRUCK AND PICNIC AREA
- 28** FORMALISED PARKING IN FRONT OF EXISTING COASTGUARD TOWER
- 29** MAINTAINED BEACH ACCESS
- 30** EXISTING TOILET BLOCK TO BE DEMOLISHED
- 31** FUTURE SPORTS PAVILION FOOTPRINT
- 32** TOILET AND CHANGE FACILITIES
- 33** SHELTERED SEATING
- 34** BEACH PRECINCT VISITOR AREA WITH 3 SHELTERS, PICNIC TABLES AND SHOWERS
- 35** BEACH ACCESS PATH (GRADED TO ALLOW EQUITABLE ACCESS)
- 36** DECKED DUNE WALK
- 37** DUNE PLANTING TO SCREEN STORMWATER OUTFALL
- 38** PICNIC SETTING
- 39** MAIN VISITOR BEACH ACCESS VIA BOARDWALK ENTRY AND STEPPED SEATING
- 40** BEACH ACCESS MATTING
- 41** SAND GROOMER ACCESS ROUTE MAINTAINED
- 42** LAWN EMBANKMENT
- 43** BANKSIA WOODLAND PLANTING
- 44** STAIR ACCESS WITH SEATING STEPS
- 45** TIMBER BOARDWALK BEACH ENTRY
- 46** BAY TRAIL WIDENED TO 2.5M - 3.0M WHERE POSSIBLE



JOIN LINE
REFER AREA C PLAN

JOIN LINE
REFER AREA A PLAN

PRICE RESERVE
PLAYGROUND
BASKETBALL COURT
SKATEPARK
CAFE
O'CONNORS RD
N4A
N4B
N4C
N5
BEACH RD

WERRIBEE SOUTH BEACH MASTERPLAN

AREA C

SCHEMATIC DESIGN

- LEGEND
- N2 ACTIVITY NODE - SEE 'DESIGN ELEMENTS'
 - D DRINK FOUNTAIN
 - B BIKE END OF TRIP FACILITIES
 - P EXISTING PARKING TO BE RETAINED
 - EXISTING BUILDING TO BE RELOCATED
 - EXISTING PATH TO BE DEMOLISHED
 - EXISTING PARK LIGHT TO BE REPLACED WITH SOLAR LIGHTING
 - EXISTING PATH LIGHT TO BE RELOCATED TO BAY TRAIL
 - BENCH TO BE RETAINED OR REPLACED
 - BALUSTRADE EDGE DETAIL
 - PROPOSED DUNE FENCING
 - PICNIC SHELTER WITH TABLE SETTINGS
 - 3.0M WIDE PATH AT ACTIVITY NODE
 - 46 BAY TRAIL WIDENED TO 2.5M - 3.0M WHERE POSSIBLE
 - 47 FISHING DECK OUTSTAND, SPANS OVER EXISTING REVETMENT WALL
 - 48 STEPPED DOWN SEATING DECK
 - 49 BEACH ACCESS RAMP
 - 50 BEACH ACCESS STAIRS
 - 51 RAISED DECK SECTION OVER DUNE VEGETATION
 - 52 PICNIC AREA
 - 53 RETAINED DUNE VEGETATION
 - 54 DOG BEACH
 - 55 EXTENT OF BAY TRAIL WORKS



WERRIBEE SOUTH BEACH MASTERPLAN

DESIGN ELEMENTS FOR AREA A

REFER TO AREA PLANS ON P19-21 FOR LOCATIONS

N1 WETLAND LOOKOUT DECK

NODE 1 DESIGN CONCEPT

Hardwood timber deck extends from the existing Bay Trail. At a natural high point, this provides a vantage point to look out over Graham’s Wetland Reserve, while also spanning over two existing drainage outlets which run beneath Beach Rd. Widened paths create a safe point for pedestrians and cyclists to navigate onto the Bay Trail or onto future paths leading towards the Werribee River.

The existing shared trail is to be widened to 2.5m along the length of the Werribee South Foreshore Reserve. Where required, path is to be regraded and reinstated to allow for equitable access along the foreshore trail. Approximately 400m of the existing trail at the western extent is in good condition and sufficient width and should be retained.

1 LOOKOUT TOWARDS GRAHAM’S WETLAND RESERVE
Hardwood timber decking (class 1, F17, kiln dried spotted gum), timber balustrade, structure fixed on screw pile footings over existing embankment and spanning existing drainage outfalls.

2 FUTURE PATH CONNECTION TO WERRIBEE RIVER
Allow future connection of proposed timber deck structure to future reinforced concrete (RC) path to Weribee River through Graham’s Reserve.

3 STEPPED DOWN SEATING
450mm high hardwood timber seating steps (class 1, F17, kiln dried spotted gum)

4 PLANTED BUFFER ON ROAD EDGE
Coastal planting buffer to match feature planting along Bay Trail

5 BAY TRAIL UPGRADE
Shared path to be upgraded to 2.5m wide Bay Trail in RC with exposed aggregate mix, colour oxide and sandblasted finish. Approximately 400m length of the Bay Trail at western extent to be retained as it is in good condition and sufficient width for shared use.

6 FUTURE PATH CONNECTION
2.5m RC path connection is a future component of works of the Werribee South Boating Facility Upgrade Project

7 SEATING AREA
Proposed seating area with views to You Yangs and Werribee River Mouth

8 EXISTING TOILETS FOR FUTURE RENEWAL
Possible future expansion and renewal of toilet block

9 PICNIC SHELTERS
Two proposed skillion roof timber picnic shelters to match existing shelters along the coastal reserve.

10 TIMBER SEAT
Proposed hardwood timber seat with backrest on steel frame, to be fastened to existing timber deck.

11 REFRESH PLANTING
Refresh existing planter beds with coastal planting and two coastal Banksia tree species.

12 BEACH ACCESS DECK
Hardwood timber deck outstand (class 1, F17, kiln dried spotted gum), structure fixed on screw pile footings. Timber bench with backrest along edge

N2 PLAYGROUND UPGRADE

NODE 2 DESIGN CONCEPT

A new regional playground is proposed for the foreshore to replace the existing ageing playground. The site looks out towards the mouth of the Werribee River, which is home to significant habitat for the critically endangered Orange Bellied Parrot. The playground design encourages kids to jump into the migratory route of the parrot, flying from the breeding grounds in Tasmania’s west coast, across the sea to the winter foraging areas along Victoria’s coasts.

Play elements encourage climbing, moving and exploring for the older kids, with gathering, balance and story elements for little ones. Iconic features include a timber bird sculpture as a central play element, with smaller ‘nest’ climbing posts and bird sculptures marking the migration route to the feeding ground. A border of coastal shrubs favoured by the parrot provides a buffer against the existing road edge. Existing embankment lawn and treed area to be maintained.

13 PLANTED PLAYGROUND BORDER
Coastal planting to provide buffer at road edge of playground site.

14 BAY TRAIL WIDENED TO 2.5M
Shared path to be upgraded to 2.5m wide Bay Trail in RC with exposed aggregate mix, colour oxide and sandblasted finish.

15 PLAYGROUND
Demolish and replace existing playground. Elements to include items such as:

- Timber platform nests (custom)
- Timber bird climbing frame (custom)
- Timber bird sculpture posts 10nos. (custom)
- Animal springers
- Timber stilts
- Rope course
- Basket swing
- Double swing
- Climbing logs
- Play surface 1: 300mm deep washed sand soft-fall
- Play surface 2: Rubber wet pour soft-fall

Seating area to include:

- 3 Skillion roof timber picnic shelter to match existing shelters along the coastal reserve
- 6 picnic table sets
- Two hardwood timber benches with backrest
- Hardwood timber decking beneath sheltered seating area
- Bicycle hoops
- Drinking fountain
- Barbeque

16 RETAIN SAND GROOMER ACCESS
Existing 3.2m access route for sand groomer with lockable gate to be retained

17 BANKSIA GROVE
Banksia marginata 45L pot size planted beside existing path

18 REFURBISH EXISTING SEATING STEPS
Replace deteriorated FRP grated stairs, ensuring to finish flush with existing RC pavement. Refresh planting to edge of RC seating steps.

19 ELEVATED WALKWAY ACCESS TO PLAYGROUND AND LOOKOUT
Hardwood timber decking, timber balustrade, structure fixed on screw pile footings. Span existing dune vegetation where possible.

20 NEW PATH SECTION AT ACCESSIBLE GRADE
Replace existing 1:10 steep path section with new aligned 2.5m wide Bay Trail in RC with exposed aggregate mix, colour oxide and sandblasted finish.

21 DEMOLISH STEEP PATH SECTION
Demolish existing 1:10 steep path section and infill with coastal planting.

22 GRANITIC SAND DUNE PATH
1.5m wide path with FCR base, granitic sand topping and timber edge.

N3 FITNESS HUB

NODE 3 DESIGN CONCEPT

A coastal fitness hub that caters to users of various ages and abilities. Designed to be a welcoming stop along the Bay Trail, this facility will encourage incidental exercise by locals out on a casual walk, as well as deliberate visits for those looking for a beautiful view while they work on their cardio, strength and flexibility.

23 FITNESS HUB
Outdoor fitness equipment to include items such as:

- Sit up bench
- Assisted step
- Flex wheel and leg lift
- Double chest press
- Pull Up Station

• Rubber wet pour soft-fall base to to depth required by fitness equipment supplier’s specification.

• RC step seating at boundary.

24 STAIR ACCESS TO BEACH
RC stairs to provide direct access to beach from Bay Trail beside fitness station

25 NEW DUNE PLANTING
Planting to promote expansion of remnant dune ecologies. Thicker planting to protect foreshore edge from erosion. To be led by City of Wyndham Conservation Team.

26 DUNE PROTECTION FENCE
Wood and wire erosion control fencing to surround proposed extent of dunes, allowing sand accretion and dune migration.

WERRIBEE SOUTH BEACH MASTERPLAN

DESIGN ELEMENTS FOR AREAS B + C

REFER TO AREA PLANS ON P19-21 FOR LOCATIONS

- 25

NEW DUNE PLANTING

Planting to promote expansion of remnant dune ecologies. Thicker planting to protect foreshore edge from erosion. To be led by City of Wyndham Conservation Team.
- 26

DUNE PROTECTION FENCE

Wood and wire erosion control fencing to surround proposed extent of dunes, allowing sand accretion and dune migration.
- 27

FOOD TRUCK AND PICNIC AREA

Three picnic tables to match existing foreshore furniture palette. Three-phase power connection to allow seasonal food truck operation.
- 28

FORMALISED PARKING IN FRONT OF EXISTING COASTGUARD TOWER

Existing informal gravel parking bays to be sealed and marked.
- 29

MAINTAINED BEACH ACCESS

Existing access paths through dune vegetation to be maintained.

N4 BEACH PRECINCT

- NODE 4 DESIGN CONCEPT

The main visitor area for beach-goers at Werribee South. The precinct will be a first stop, with a new bathroom and change facility, including accessible cubicles. A Changing Places facility will provide visitors living with disabilities a high quality facility with specialised change and bathroom facilities. The precinct will connect Price Reserve with the Werribee South Foreshore Reserve via existing raised crossing. The beach precinct will open out onto a paved plaza with sheltered picnic benches, outdoor shower facilities and bike facilities. A sealed path will allow equitable access down to Werribee South Beach’s best swimming location.
- 30

DEMOLISH EXISTING TOILET BLOCK

Demolish existing toilet block, space to be made good for interim period until possible future relocation of sports pavillion and coast guard tower.
- 31

RETAIN RAISED CROSSING

Raised crossing to be retained as main crossing point from Price Reserve and amenities to the foreshore and beach.
- 32

TOILET AND CHANGE FACILITIES

Replace existing toilet block with modern facility, including Exeloo (product model: Jupiter) with two ambulant cubicles, one accessible toilet cubicle and one Changing Places unit to provide specialised change and bathroom facilities for visitors living with a disability.
- 33

SHELTERED SEATING

Facilities to have timber skillion roof and facade to complement picnic facilities throughout the foreshore reserve.
- 34

BEACH PRECINCT VISITOR AREA

Elevated reinforced concrete (RC) plaza connecting pedestrian crossing to Bay Trail and beach path. Three timber skillion shelters to complement others in foreshore reserve, six picnic tables, four outdoor showers.
- 35

BEACH ACCESS PATH

RC path connecting beach precinct visitor area with accessible beach deck and access matting.

- 36

DECKED DUNE WALK

Hardwood timber decking section of dune path with low timber kickrail.
- 37

DUNE PLANTING TO SCREEN STORMWATER OUTFALL

Extend coastal vegetation southward to screen unsightly stormwater outfall from view. Planting to match existing dune species.
- 38

PICNIC SETTINGS

RC slab outstand from Bay Trail with picnic benches to match City of Wyndham furniture palette.
- 39

MAIN VISITOR BEACH ACCESS VIA BOARDWALK ENTRY AND STEPPED SEATING

Hardwood timber deck outstand (class 1, F17, kiln dried spotted gum), structure fixed on screw pile footings. 450mm high timber benches with backrests located along edge of decking. Deck lowers to beach level with connection point for accessible beach mat.
- 40

BEACH ACCESS MATTING

1.5m wide beach access mat for pedestrians, wheelchair users, strollers, bicycles and light all terrain vehicles. Can be rolled and stowed.
- 41

SAND GROOMER ACCESS ROUTE THROUGH DUNE

Existing 3.2m access route for sand groomer with lockable gate to be retained.

N5 EASTERN BEACH ACCESS

- NODE 5 DESIGN CONCEPT

Secondary access to the main swimming beach at Werribee South. This area is at the eastern end of the foreshore lawn, offering a hardwood beach access deck, a private seating environment, stairs to carpark as well as a Banksia woodland grove and mounded lawns for casual rest stops.
- 42

LAWN EMBANKMENT

Proposed mounded lawn extending from high points along the Bay Trail to offer panoramic viewing of the Bay
- 43

BANKSIA WOODLAND PLANTING

Proposed coastal woodland plantings of *Banksia marginata* and *Banksia integrifolia* to provide moments of shade and add habitat for bird and insect species.
- 44

STAIR ACCESS WITH SEATING STEPS

RC steps leading from Bay Trail towards beach access decking. Steps will extend wide to provide a seating environment at the lawn edge.
- 45

TIMBER BOARDWALK BEACH ENTRY

Hardwood timber deck outstand, structure fixed on screw pile footings. 450mm high timber benches with backrests located along edge of decking. Deck lowers to beach level.
- 46

BAY TRAIL WIDENED TO 2.5M

Shared path to be upgraded to 2.5m wide Bay Trail in RC with exposed aggregate mix, colour oxide and sandblasted finish.

N6 FISHING DECK

- NODE 6 DESIGN CONCEPT

The sweeping bend of Beach Rd around the steep cliff creates a tight space for the Bay Trail to reach the next beach. Local fishers use this point for its access to deep water.

To widen the Bay Trail to 2.5m, a deck is proposed to extend over the existing rock revetment wall. This widens to a platform for fishers to give them safe space off of the trail, and an access ramp down to the beach.
- 47

FISHING DECK OUTSTAND

Hardwood timber decking (class 1, F17, kiln dried spotted gum), balustrade, structure fixed on screw pile footings to span over existing stone revetment wall.
- 48

STEPPED DOWN SEATING DECK

Stepped down seating to offer unique views towards Melbourne CBD and Wyndham Harbour.
- 49

BEACH ACCESS RAMP

Timber deck ramp to connect Bay Trail to East Beach. Hardwood timber decking structure fixed on screw pile footings to span over existing dune vegetation.
- 50

BEACH ACCESS STAIRS

Hardwood timber stairs to connect Bay Trail to east beach through existing dune path.
- 51

RAISED DECK SECTION OVER DUNE VEGETATION

Timber deck to align Bay Trail away from road edge. Hardwood timber decking structure fixed on screw pile footings to span over existing dune vegetation.
- 52

PICNIC AREA

RC slab outstand from Bay Trail with picnic benches to match City of Wyndham furniture palette.
- 53

RETAINED DUNE VEGETATION

Protection of remnant dune ecologies to defend foreshore edge from erosion. To be led by City of Wyndham Conservation Team.
- 54

BAY TRAIL TERMINUS

Widened Bay Trail to meet existing shared path leading toward Wyndham Harbour.

WERRIBEE SOUTH BEACH MASTERPLAN

PRECEDENT BOARD

SCHEMATIC DESIGN

REFER TO AREA PLANS ON P19-21 FOR LOCATIONS

N1 TIMBER LOOKOUT DECK



LOOKOUT DECK EXTENSION



STEPPED TIMBER SEATING

N3 FITNESS HUB



SIT UP BENCH



ASSISTED STEP



DOUBLE CHEST PRESS



FITNESS HUB OUTSTAND



TRAINING INSTRUCTION GRAPHICS



SHARED ELEMENTS

N4 BEACH PRECINCT



CHANGING PLACES FACILITY (EXELOO)



ARTICULATED SKILLION ROOF OVER FACILITIES



TIMBER SKILLION ROOF PICNIC SHELTER



STAINLESS STEEL BEACH SHOWER

N2 PLAYGROUND UPGRADE



BASKET SWING



DOUBLE SWING



TIMBER STILT PLAY ELEMENT



CUSTOM PARROT CLIMBABLE SCULPTURE



ROPE COURSE



SOFTFALL: PATTERNED RUBBER, SAND, MULCH



CUBBY SPACE



MIGRATING BIRD SCULPTURE POSTS



FORAGING AND GATHERING DISH



ENCLOSED SLIDE



BALANCE LOGS AND BOULDERS



CUSTOM 'NEST' STRUCTURES

WERRIBEE SOUTH BEACH MASTERPLAN

PRECEDENT BOARD

SCHEMATIC DESIGN

REFER TO AREA PLANS ON P19-21 FOR LOCATIONS

PATHS AND MOVEMENT



GRANITIC SAND PATH THROUGH DUNES



TIMBER BOARDWALK THROUGH DUNE



ACCESSIBLE BEACH MATTING



ELEVATED TIMBER ACCESS PATH WITH BALUSTRADE



2.5m - 3.0m WIDE BAY TRAIL



SANDBLASTED PATTERNING AT ACTIVITY NODES



SOLAR BOLLARD LIGHTING ALONG BAY TRAIL

N5 EASTERN BEACH ACCESS



TIMBER DECK BEACH ACCESS



LAWN EMBANKMENT



HONEYSUCKLE, BANKSIA MARGINATA



SEATING STEPS

FURNITURE



HARDWOOD TIMBER BENCH



PICNIC BENCHES TO MATCH FORESHORE PALETTE



OVERSIZED STEEL PIPE BALUSTRADE



STAINLESS STEEL ELECTRIC BARBEQUES

N6 FISHING DECK



FISHING DECK OUTSTAND



FISHING ROD EYELETS



TIMBER SEATING STEPS



DECK STEPS DOWN FROM PATH

PLANTING



COASTAL PLANTING



WOOD AND WIRE DUNE PROTECTION FENCING

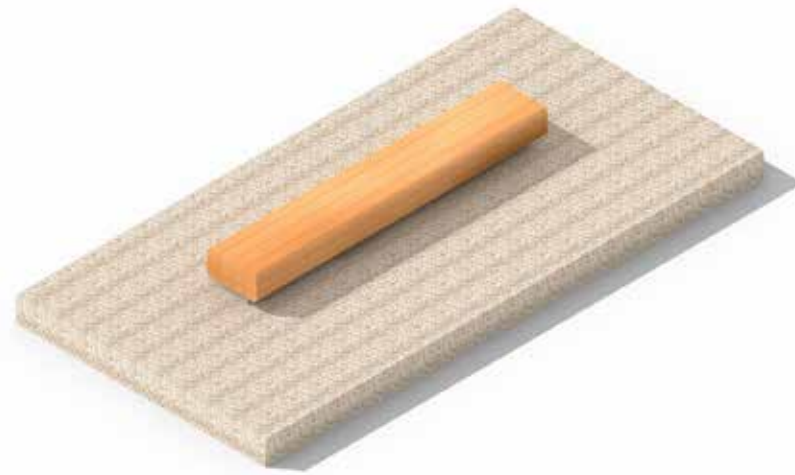
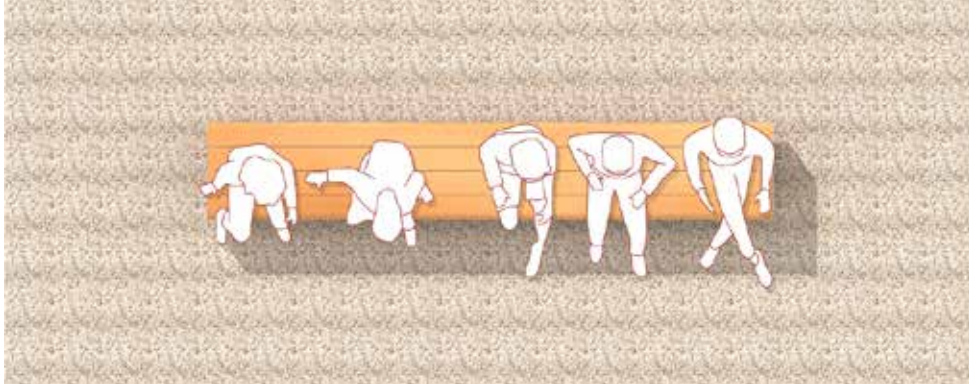


DUNE PLANTING

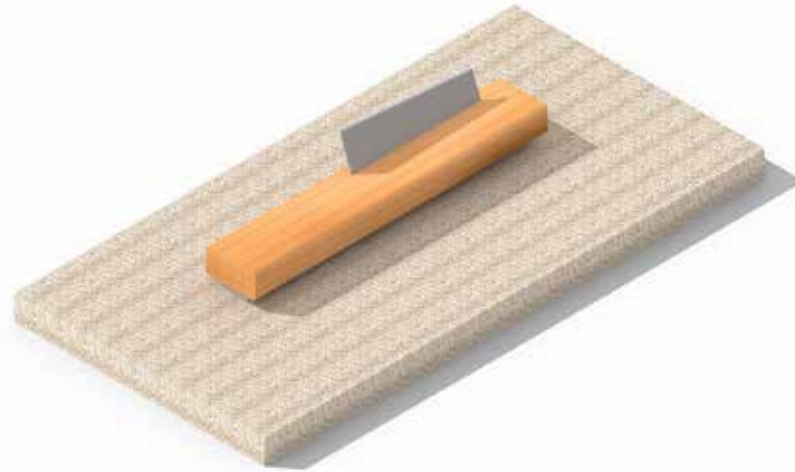
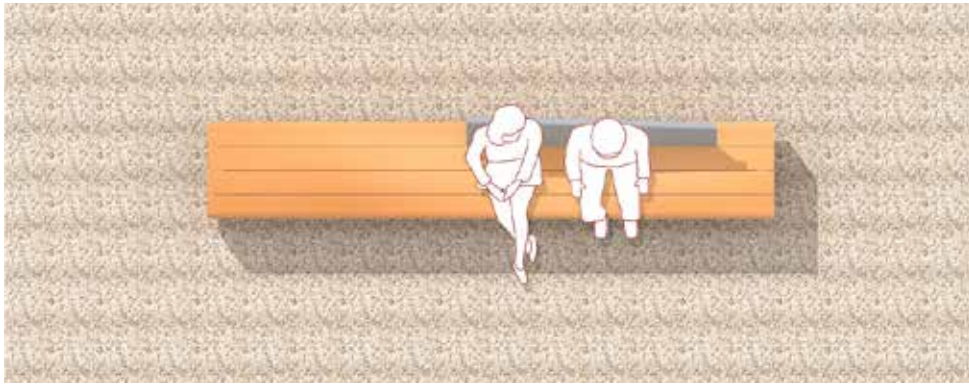


HIGH QUALITY RECREATION LAWN

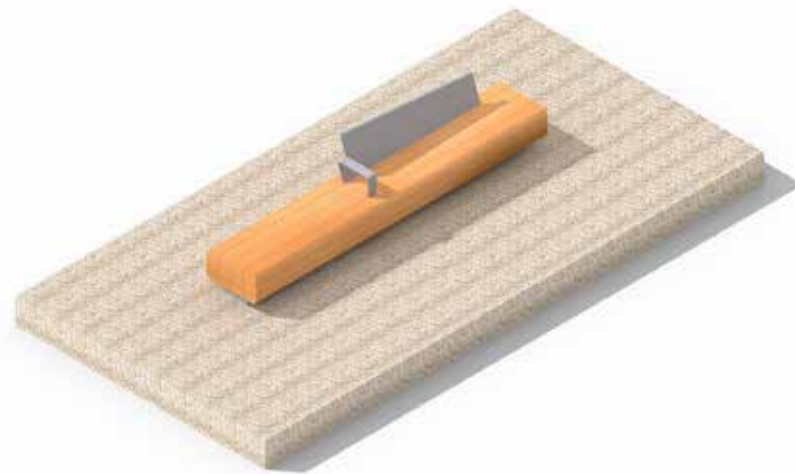
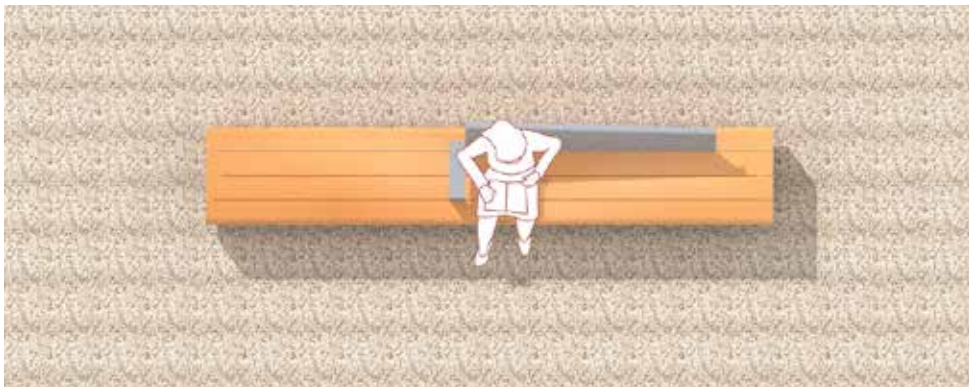
MODULE 01 - TIMBER SEAT



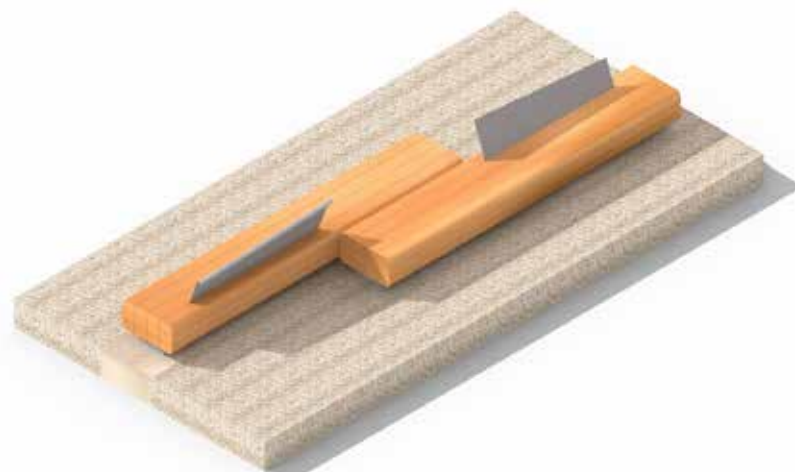
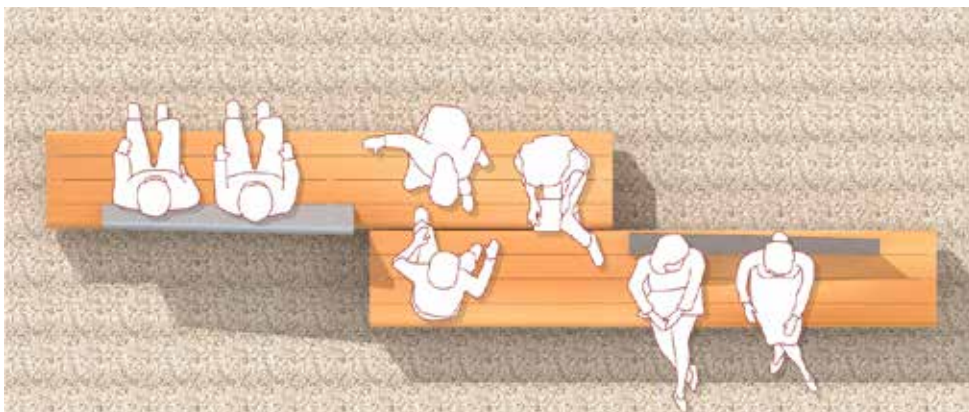
MODULE 02 - BACK REST



MODULE 03 - ARM REST, BACK REST



MODULE 04 - BACK TO BACK



THE LONG SEAT IS DESIGNED TO FIT AT REST POINTS ALONG THE LENGTH OF THE WERRIBEE SOUTH BEACH FORESHORE RESERVE.

At 4m in length, the seat is designed with groups in mind. It has room to stretch out, lay a towel when returning from the water, somewhere to perch while waiting for company or watching fishers over the bay.

Folded steel backrests and armrests can be installed to accommodate people with different strengths and abilities.

Class 1 Australian hardwood timber is chosen for its longevity and gradual silvering. The long seat will fit the character of the foreshore, matching to the jetty and the proposed decking outstands along the foreshore.



4M LONG
450MM HIGH
600MM DEEP



OPTION WITHOUT
BACKREST



FOLDED STEEL
BACKREST

EXISTING VEGETATION

TREES



INDIGENOUS TO THE AREA



PRIMARY DUNE SPECIES



KEY SPECIES - TO BE PROTECTED AND EXPANDED WITH WYNDHAM CITY COUNCIL CONSERVATION TEAM

- | | | | | |
|---|---|---|---|---|
| 1 <i>Banksia integrifolia</i> - Coastal Banksia | 2 <i>Banksia marginata</i> - Silver Banksia | 3 <i>Allocasuarina verticillata</i> - Drooping Sheoak | 4 <i>Melaleuca lanceolata</i> - Moonah | 5 <i>Araucaria heterophylla</i> - Norfolk Island Pine |
| 6 <i>Rhagodia candolleana</i> subsp. <i>candolleana</i> - Seaberry Saltbush | 7 <i>Distichlis distichophylla</i> -- Australian Salt-grass | 8 <i>Tetragonia implexicoma</i> - Bower Spinach | 9 <i>Enchylaena tomentosa</i> - Ruby Saltbush | 10 <i>Myoporum insulare</i> - Coast Boobialla |
| 11 <i>Spinifex sericeus</i> - Hairy Spinifex | 12 <i>Sarcocornia quinqueflora</i> - Beaded Samphire | 13 <i>Atriplex cinerea</i> - Coast Salt Bush | 14 <i>Salsola tragus</i> subsp. <i>pontica</i> - Coast Saltwort | |

PLANTING SCHEME

TREES



MIDSTOREY



GRASSES + GROUND COVER



PLANTING PLAN TO BE DEVELOPED WITH WYNDHAM CITY COUNCIL CONSERVATION TEAM

- | | | | |
|--|---|--|---|
| 1 <i>Banksia integrifolia</i> - Coastal Banksia | 2 <i>Allocasuarina verticillata</i> - Drooping Sheoak | 3 <i>Melaleuca lanceolata</i> - Moonah | 4 <i>Araucaria heterophylla</i> - Norfolk Island Pine |
| 5 <i>Poa poiformis</i> - Coast Tussock Grass | 6 <i>Banksia marginata</i> - Silver Banksia | 7 <i>Chamelaucium uncinatum</i> - Geraldton Wax | 8 <i>Atriplex cinerea</i> - Coast Saltbush |
| 9 <i>Westringia fruticosa</i> - Wynnabie Gem | 10 <i>Disphyma crassifolium</i> - Rounded Noonflower | 11 <i>Cryocephalum apiculatum</i> - Yellow Buttons | 12 <i>Brachyscome multifida</i> - Cut Leafed Daisy |
| 13 <i>Tetragonia implexicoma</i> - Bower Spinach | 14 <i>Carprobrotus rossii</i> - Pigface/Karkalla | | |

WERRIBEE SOUTH BEACH MASTERPLAN

N1 NODE 1: WETLAND DECK

CONCEPT DESIGN

- LEGEND
- N2 ACTIVITY NODE - SEE 'DESIGN ELEMENTS'
 - D DRINK FOUNTAIN
 - B BIKE END OF TRIP FACILITIES
 - P EXISTING PARKING TO BE RETAINED
 - EXISTING CONTOURS - 250MM INTERVALS
 - EXISTING DRAINAGE
 - EXISTING PATH TO BE DEMOLISHED
 - EXISTING PARK LIGHT TO BE REPLACED WITH SOLAR LIGHTING
 - EXISTING PATH LIGHT TO BE RELOCATED TO BAY TRAIL
 - PIPE BALUSTRADE DETAIL
 - SAFETY BALUSTRADE
 - PATTERNED PAVING INDICATES SLOW AREA/ACTIVITY NODE
 - PROPOSED TREE

- 1 EXISTING PATH CONNECTION ALONG DIGGERS ROAD
- 2 EXISTING DRAINAGE CULVERT (CONTINUES UNDER ROAD)
- 3 EXISTING DRAIN OUTLET TO BE CONVERTED TO JUNCTION PIT
- 4 FUTURE PATH CONNECTION INTO GRAHAM'S WETLAND RESERVE AND WERRIBEE RIVER
- 5 BUFFER PLANTING TO ROAD EDGE
- 6 LOOKOUT DECK, VIEWS TO WETLANDS AND WERRIBEE RIVER
- 7 REST AREA WITH SEATS AND WAYFINDING
- 8 ACCESS RAMP TO BOTTOM LEVEL
- 9 STEPPED SEATING
- 10 PROPOSED DRAINAGE OUTLET/HEADWALL (BELOW DECK)
- 11 SANDBLASTED PATTERN SHOWS SHARED USE AREA OF BAY TRAIL
- 12 EXISTING DRAIN OUTFALL (BELOW DECK)
- 13 EXISTING VEGETATION TO BE RETAINED
- 14 EXISTING DRAIN LEADING TO WERRIBEE RIVER
- 15 EXISTING GRASS EMBANKMENT
- 16 EXISTING NORFOLK ISLAND PINE TREES
- 17 EXISTING SHARED PATH - THIS 2.5M WIDE SECTION TO BE RETAINED



N2

WERRIBEE SOUTH BEACH MASTERPLAN

NODE 2: ORANGE BELLIED PARROT PLAYGROUND

CONCEPT DESIGN

LEGEND	
N2	ACTIVITY NODE - SEE 'DESIGN ELEMENTS'
D	DRINK FOUNTAIN
B	BIKE END OF TRIP FACILITIES
P	EXISTING PARKING TO BE RETAINED
	EXISTING CONTOURS - 250MM INTERVALS
	EXISTING DRAINAGE
	EXISTING PATH TO BE DEMOLISHED
	EXISTING PARK LIGHT TO BE REPLACED WITH SOLAR LIGHTING
	EXISTING PATH LIGHT TO BE RELOCATED TO BAY TRAIL
	PIPE BALUSTRADE DETAIL
	SAFETY BALUSTRADE
	PATTERNED PAVING INDICATES SLOW AREA/ACTIVITY NODE
	SOFT-FALL RUBBER
	SOFT-FALL SAND
	PROPOSED TREE

- EXISTING CAR PARK RETAINED, INCLUDING 2 ACCESSIBLE SPACES
- TRAMPOLINE AND SANDPIT AREA
- PLANTING BUFFER AT PLAYGROUND EDGE
- FEATURE PLAY ELEMENT - ORANGE BELLIED PARROT CLIMBER (2 CUSTOM UNITS)
- YOUNG CHILDREN'S NATURE EXPLORATION AREA WITH SENSORY PLANTING, FORAGING AND GATHERING TABLE
- SEATING WALL
- EXISTING TOPPLED MOONAH TREE RETAINED
- 'NESTING HOLLOW' CLIMBING TOWERS WITH ROPE BRIDGE, SLIDES, LADDERS, BARS AND OTHER PLAY ELEMENTS
- SWINGS - 1 BASKET SWING, 1 TODDLER SWING AND 1 STANDARD SWING
- LOG CLIMBERS AT EDGE OF SOFTFALL MULCH
- MIGRATING BIRD SCULPTURES
- BANKSIA GROVE
- REST AREA - DECKED WITH SEATING, DRINKING FOUNTAIN, BBQ, 6 PICNIC SETTINGS AND 3 SHELTERS
- EXISTING SAND GROOMER ACCESS GATE RETAINED
- RAISED PATH CONNECTION TO BAY TRAIL VIA BOARDWALK OVER VEGETATION
- EXISTING STEPPED SEATING AND 'BOY' SCULPTURE RETAINED
- EXISTING PATH CONNECTION RETAINED AND REFURBISHED AS REQUIRED

N2

WERRIBEE SOUTH BEACH MASTERPLAN NODE 2: ORANGE BELLED PARROT PLAYGROUND





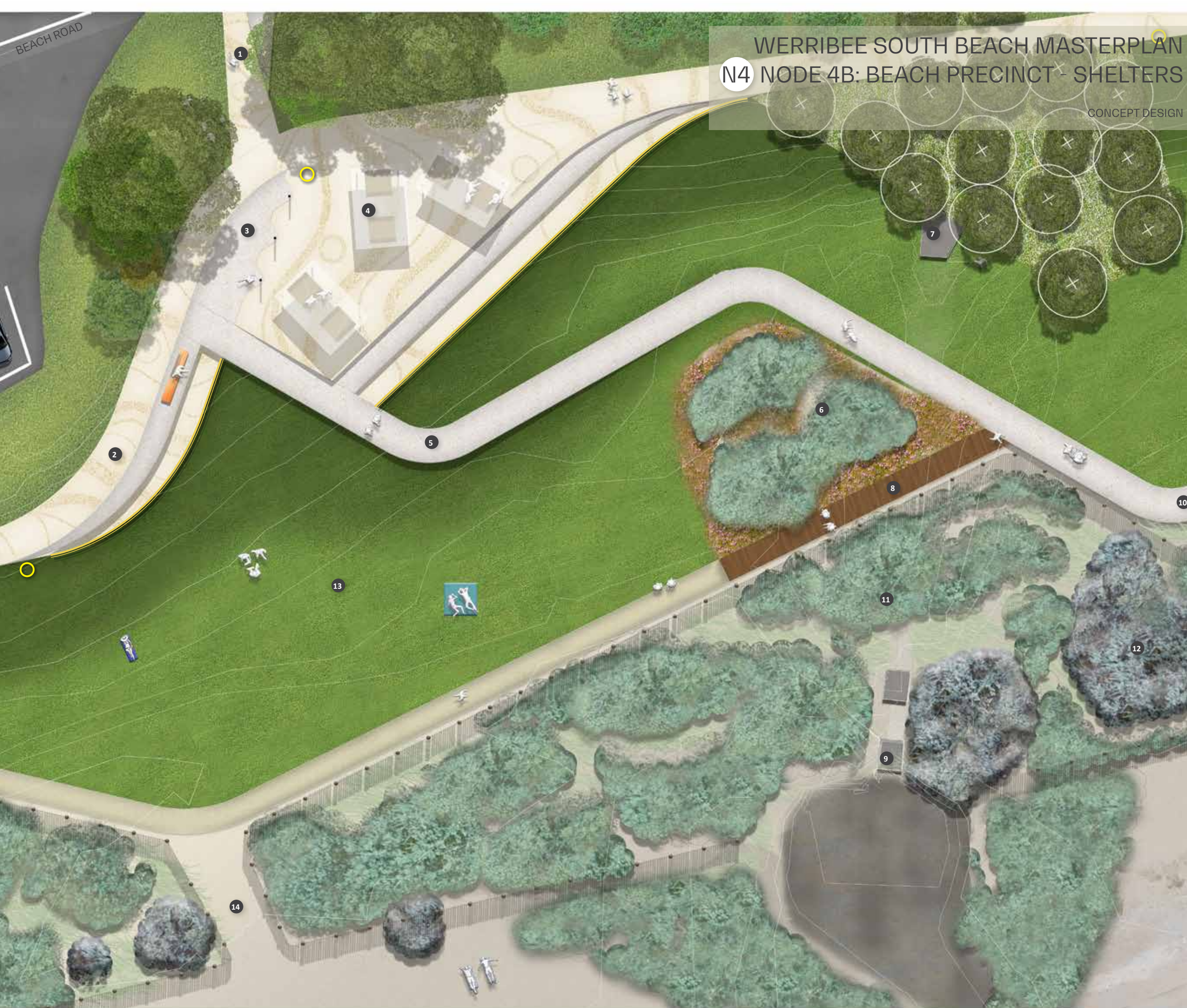
WERRIBEE SOUTH BEACH MASTERPLAN

N4 NODE 4A: BEACH PRECINCT - TOILETS

CONCEPT DESIGN

- LEGEND
- N2 ACTIVITY NODE - SEE 'DESIGN ELEMENTS'
 - D DRINK FOUNTAIN
 - B BIKE END OF TRIP FACILITIES
 - P EXISTING PARKING TO BE RETAINED
 - EXISTING CONTOURS - 250MM INTERVALS
 - EXISTING DRAINAGE
 - EXISTING PATH TO BE DEMOLISHED
 - EXISTING PARK LIGHT TO BE REPLACED WITH SOLAR LIGHTING
 - EXISTING PATH LIGHT TO BE RELOCATED TO BAY TRAIL
 - PIPE BALUSTRADE DETAIL
 - SAFETY BALUSTRADE
 - PATTERNED PAVING INDICATES SLOW AREA/ACTIVITY NODE
 - PROPOSED TREE

- 1 EXISTING PRICE RESERVE FOOTBALL OVAL
- 2 EXISTING PEAK USE OVERFLOW PARKING
- 3 FOOTPRINT OF FUTURE SPORTS AND COMMUNITY PAVILION
- 4 EXISTING TOILETS TO BE DEMOLISHED
- 5 FORMALISED PARKING
- 6 END-OF-TRIP BICYCLE FACILITIES
- 7 TOILET FACILITIES - 2X AMBULANT CUBICLES, 1X ACCESSIBLE CUBICLE
- 8 'CHANGING PLACES' ACCESSIBLE CHANGE ROOM AND BATHROOM FACILITY
- 9 PICNIC SETTING
- 10 ARTICULATED SKILLION ROOF SHELTER
- 11 EXISTING TREES AND VEGETATION RETAINED
- 12 PLANTING TO BUFFER ROAD EDGE
- 13 EXISTING SKATEPARK
- 14 EXISTING BASKETBALL FREE THROW COURT
- 15 PATH WIDENED TO 3.0M TO CAFE
- 16 EXISTING PARKING



LEGEND

- N2 ACTIVITY NODE - SEE 'DESIGN ELEMENTS'
- D DRINK FOUNTAIN
- B BIKE END OF TRIP FACILITIES
- P EXISTING PARKING TO BE RETAINED
- EXISTING CONTOURS - 250MM INTERVALS
- EXISTING DRAINAGE
- EXISTING PATH TO BE DEMOLISHED
- EXISTING PARK LIGHT TO BE REPLACED WITH SOLAR LIGHTING
- EXISTING PATH LIGHT TO BE RELOCATED TO BAY TRAIL
- PIPE BALUSTRADE DETAIL
- SAFETY BALUSTRADE
- PATTERNED PAVING INDICATES SLOW AREA/ACTIVITY NODE
- PROPOSED DUNE FENCE
- PROPOSED TREE

- 1 ACCESS TO CROSSING OVER BEACH ROAD
- 2 FEATURE PATTERN IN CONCRETE BAY TRAIL DEFINES ACTIVITY NODE
- 3 BEACH SHOWERS
- 4 3 SHELTERS WITH PICNIC SETTINGS
- 5 ALL-ACCESS PATH TO BEACH
- 6 EXTENDED DUNE PLANTING
- 7 EXISTING DRAINAGE OUTLET, CONTINUES BENEATH LAWN
- 8 DECKED SECTION TO SPAN DRAINAGE PIPE
- 9 DRAINAGE OUTLET WITH NEW DUNE PLANTING TO SCREEN VIEWS
- 10 PATH CONTINUES TO BEACH ENTRY DECK
- 11 NEW DUNE PLANTING
- 12 EXISTING DUNE PLANTING
- 13 EXISTING LAWN MAINTAINED
- 14 EXISTING INFORMAL BEACH ACCESS POINTS MAINTAINED AT REGULAR INTERVALS

WERRIBEE SOUTH BEACH MASTERPLAN

N4 NODE 4C: BEACH PRECINCT - MAIN BEACH DECK

CONCEPT DESIGN

LEGEND

N2

ACTIVITY NODE - SEE 'DESIGN ELEMENTS'

D

DRINK FOUNTAIN

B

BIKE END OF TRIP FACILITIES

P

EXISTING PARKING TO BE RETAINED

EXISTING CONTOURS - 250MM INTERVALS

EXISTING DRAINAGE

EXISTING PATH TO BE DEMOLISHED

EXISTING PARK LIGHT TO BE REPLACED WITH SOLAR LIGHTING

EXISTING PATH LIGHT TO BE RELOCATED TO BAY TRAIL

PIPE BALUSTRADE DETAIL

SAFETY BALUSTRADE

PATTERNED PAVING INDICATES SLOW AREA/ACTIVITY NODE

DUNE FENCE

PROPOSED TREE

- 1

EXISTING LAWN AND EMBANKMENT MAINTAINED
- 2

ACCESS ROUTE FOR BEACH MAINTENANCE VEHICLES
- 3

ACCESS PATH TO BEACH PRECINCT, PARKING AND ACCESSIBLE TOILETS (1:40 GRADE)
- 4

DUNE PATH IN GRANITIC SAND, FOLLOWS BACK OF DUNE VEGETATION
- 5

INFORMAL BEACH ACCESS POINT, ALLOWING SAND GROOMER ACCESS
- 6

HARDWOOD DECK FOR BEACH ACCESS
- 7

EXISTING DUNE VEGETATION
- 8

ADDITIONAL DUNE PLANTING
- 9

FOLDED TIMBER EDGE CREATES RECLINING SEAT
- 10

ACCESS RAMP BETWEEN DECK AND BEACH
- 11

BEACH ACCESS MAT
- 12

BEACH ACCESS MAT STORAGE UNDER DECK



WERRIBEE SOUTH BEACH MASTERPLAN
N5 NODE 5: BEACH BOOKEND DECK

CONCEPT DESIGN

- LEGEND
- N2 ACTIVITY NODE - SEE 'DESIGN ELEMENTS'
 - D DRINK FOUNTAIN
 - B BIKE END OF TRIP FACILITIES
 - P EXISTING PARKING TO BE RETAINED
 - EXISTING CONTOURS - 250MM INTERVALS
 - EXISTING DRAINAGE
 - EXISTING PATH TO BE DEMOLISHED
 - EXISTING PARK LIGHT TO BE REPLACED WITH SOLAR LIGHTING
 - EXISTING PATH LIGHT TO BE RELOCATED TO BAY TRAIL
 - PIPE BALUSTRADE DETAIL
 - SAFETY BALUSTRADE
 - PATTERNED PAVING INDICATES SLOW AREA/ ACTIVITY NODE
 - PROPOSED DUNE FENCE
 - PROPOSED TREE

- 1 2.5M WIDE BAY TRAIL MAINTAINED. WIDENED TO 3.0M WIDE WHERE POSSIBLE
- 2 LAWN EMBANKMENT EXTENDED
- 3 EXISTING LAWN MAINTAINED
- 4 1.8M WIDE DUNE PATH IN GRANITIC SAND
- 5 EXISTING DUNE VEGETATION
- 6 ADDITIONAL DUNE PLANTING
- 7 BEACH ACCESS STAIRS
- 8 SEATING STEPS
- 9 BEACH ACCESS DECK
- 10 FOLDED TIMBER EDGE CREATES RECLINING SEAT

WHY PUT FENCES AROUND THE DUNES?

“DUNES ACT AS **NATURAL BUFFERS** BY PROTECTING THE LAND FROM WIND AND WAVE ACTION AND HENCE ARE IMPORTANT COMPONENTS OF COASTLINE RESILIENCE TO EROSION. THIS WILL BE INCREASINGLY IMPORTANT AS THE IMPACTS OF CLIMATE CHANGE TAKE EFFECT...

HUMAN-INDUCED DISTURBANCE AND DEGRADATION OF COASTAL VEGETATION COMPOUNDS THE VULNERABILITY OF THE DUNES AND COASTAL AREAS TO EROSION ON WERRIBEE SOUTH COASTLINE.”

WERRIBEE SOUTH BEACH MASTERPLAN

N6 NODE 6: FISHING DECK

SCHEMATIC DESIGN

LEGEND

N2

ACTIVITY NODE - SEE 'DESIGN ELEMENTS'

D

DRINK FOUNTAIN

B

BIKE END OF TRIP FACILITIES

P

EXISTING PARKING TO BE RETAINED

EXISTING CONTOURS - 250MM INTERVALS

EXISTING DRAINAGE

EXISTING PATH TO BE DEMOLISHED

EXISTING PARK LIGHT TO BE REPLACED WITH SOLAR LIGHTING

EXISTING PATH LIGHT TO BE RELOCATED TO BAY TRAIL

PIPE BALUSTRADE DETAIL

SAFETY BALUSTRADE

PATTERNED PAVING INDICATES SLOW AREA/ACTIVITY NODE

PROPOSED DUNE FENCE

HIGH TIDE LINE (2022 AVG)

PROPOSED TREE

- 1

BAY TRAIL SECTION WIDENED TO 2.5 - 3.0M WHERE POSSIBLE
- 2

FEATURE PATTERN IN CONCRETE BAY TRAIL DEFINES ACTIVITY NODE
- 3

EXISTING ROCK REVETMENT WALL
- 4

EXISTING SALT BUSH PLANTING ON TOP EDGE OF REVETMENT WALL RETAINED
- 5

EXISTING SAFETY BARRIER
- 6

EXISTING MOTORBIKE PARKING X6
- 7

EXISTING PARKING X3
- 8

GARDEN BED ROAD BUFFER
- 9

LONG TIMBER SEAT WITH BACKREST, ARMREST
- 10

FISHING DECK
- 11

STEPPED TIMBER SEATING
- 12

ACCESS STAIRS WITH HANDRAIL



en.



GROUND FLOOR,
151 ST GEORGES ROAD
FITZROY NORTH
VICTORIA 3068

+61 3 9482 2202
ADMIN@ENLOCUS.COM
WWW.ENLOCUS.COM