TEAM S TUTOR: AR. SHAHIRA

SITE ANALYSIS OF TANJUNG TUAN & BLUE LAGOON

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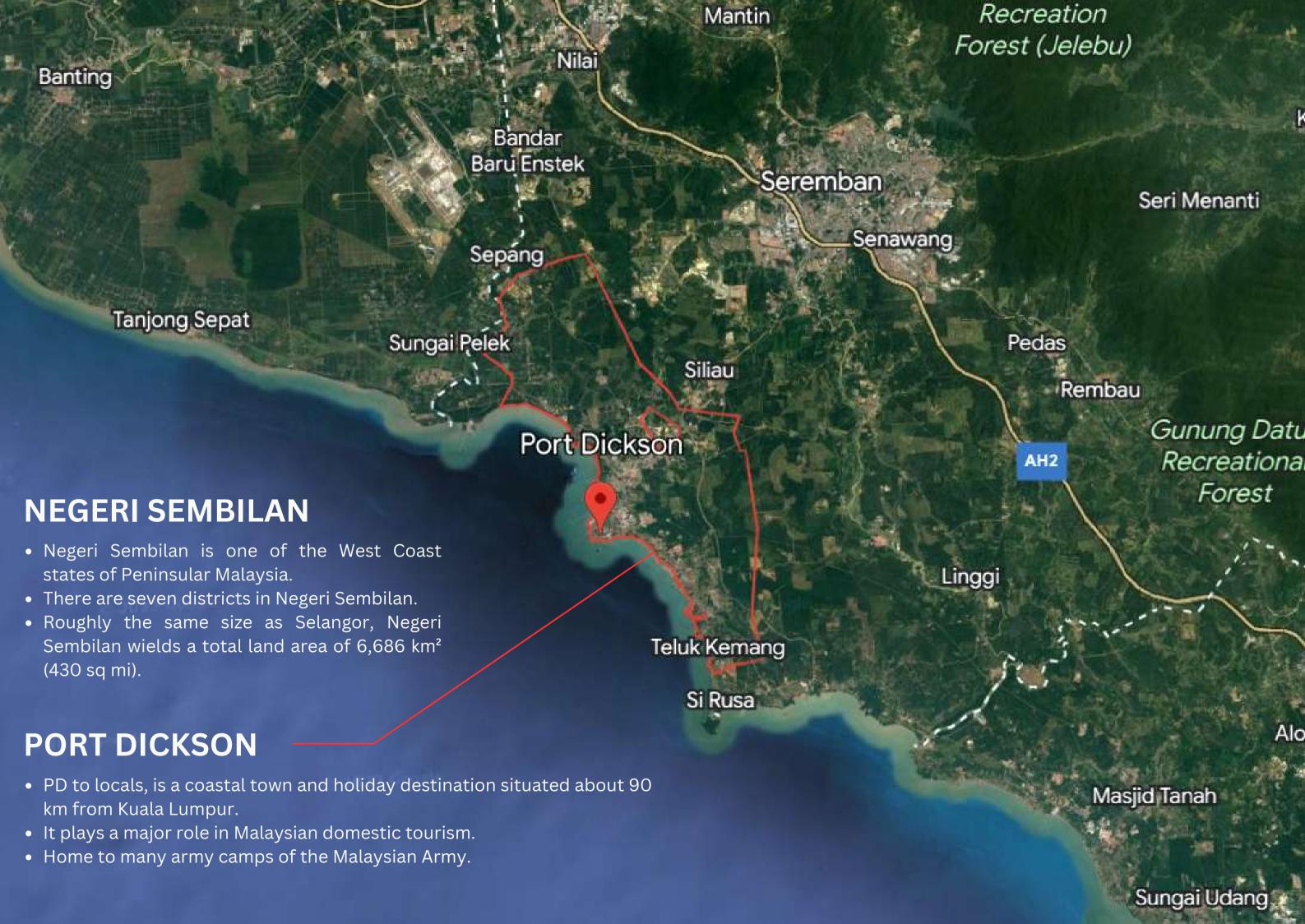
RAYAN NADIR MOHAMMED ELBADAWI 0355099

THEN JIA CHENG 0344945

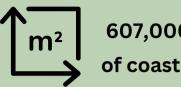


VIDEO

TASK 01



BACKGROUND INFORMATION OF TANJUNG TUAN RECREATIONAL FOREST



607,000 square metres of coastal rainforest.



Jalan Pantai, Tanjung Tuan, 71050 Melaka (exclave)



Nature reserve

Tanjung Tuan Recreational Forest

The Tanjung Tuan Recreational Forest was established in 1921, making it over 100 years old. Rumoured to be the place where Parameswara, (1344 – c. 1414), the last king of Singapura, and the founder of Malacca was buried.

The forest falls under the state of **Malacca** as it was gazetted by the Melaka state government. A section of Tanjung Tuan Recreational Forest has also been gazetted as a Wildlife and Bird Sanctuary since 1971. The lighthouse was built by the Portuguese in the 16th Century, and rebuilt by the British in the 18th century after was destroyed in battle. It contains eight curated hiking trails that provide varied hiking experiences, and is known as a fantastic destination for bird watching due to its location along the migratory bird route.



Tanjung Tuan Recreational Forest

Cape Richardo

Cape Rachado

- Is an 80-hectare nature reserve
 18km south from Port Dickson town
- This hilly cape is a gazetted wildlife sanctuary that features a historical lighthouse
- Administered by the state of Malacca
- Is also a popular bird watching spot

Significance of having the Mangrove forest:

- Protecting both the saltwater and the freshwater ecosystems they straddle.
- Minimises erosion and absorbs the effects of storm surges during extreme weather events.
- Complex root systems filter nitrates and phosphates that rivers and streams carry to the sea.

HISTORICAL TIMELINE



Tanjung Tuan was a prominent landmark for early settlers and indigenous communities in the region.



The Battle of Cape Rachado occurred just off the coast of melaka.



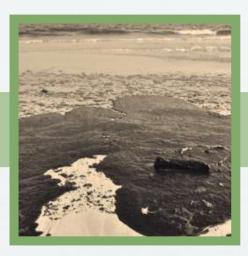
World War II: The Japanese occupied Tanjung Tuan during their occupation of Malaya, and used it as a lookout post

1941-1945



40 acres was gazetted out of the Permanent Forest Reserve status by the Melaka State Government for public purposes.

1969



The ecosystem in Tanjung Tuan is disturbed as a result of an oil spill.

2020

PAST

1606

1511



The Portuguese established the site and the lighthouse was initially built after they conquered Melaka.

1863



The iconic Cape Rachado lighthouse is rebuilt by the British to guide ships safely through the strait.



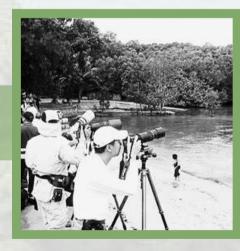
Post-Independence: Malaysia gained independence in 1957, and Tanjung Tuan was gazetted as a forest reserve.

1995



The Dutch ship Nassau was excavated from the area and is on display at Lukut Museum in Port Dickson.

PRESENT



The area has been maintained as a forest reserve, and mangrove saplings have been planted to rehabilitate the swamp ecosystem.

OLD PHOTOS OF PORT DICKSON



Port Dickson Railway Station



Port Dickson marketplace



Port Dickson shophouses



Port Dickson town 1960



Port Dickson office 1960



Coolies drop off point



1950-selling collectibles



Mining work,20th century



Port seafront at lowtide

THE PEOPLE OF PORT DICKSON

POPULATION: 119,300 (2015)

ECONOMY

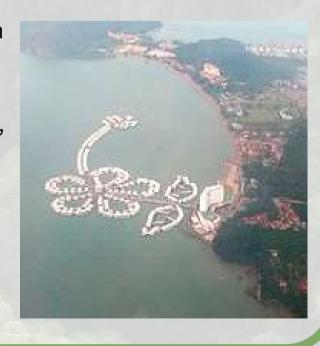


OIL AND GAS PRODUCTION

Port Dickson has two refineries which make significant contributions to the local economy

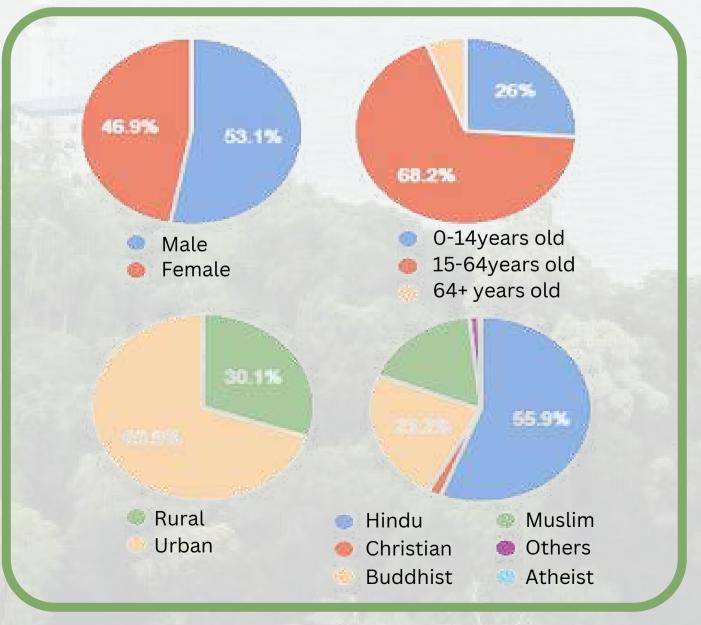
TOURISM

The 18 km (11 mi) long beach from <u>Tanjung Gemuk</u> to <u>Tanjung Tuan</u> is a holiday destination for local visitors, especially those who come from the <u>Klang Valley</u>. Over the years, many hotels and resorts were opened to capitalize on the tourist draw.





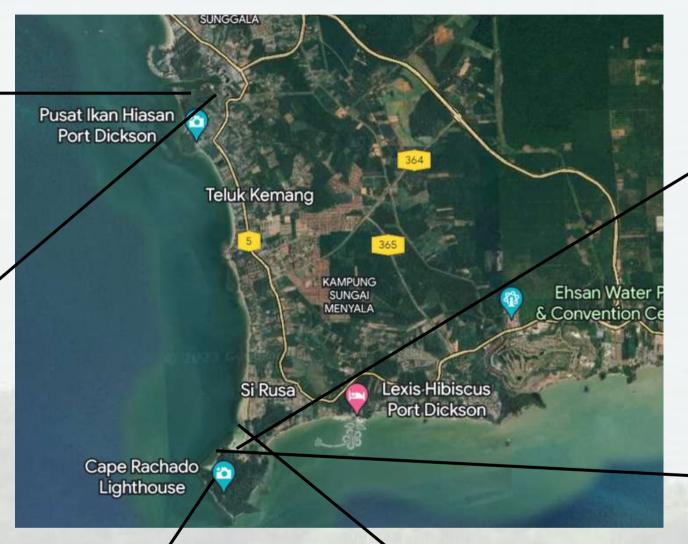
DEMOGRAPHICS



LANDMARKS OF PORT DICKSON



Army Museum



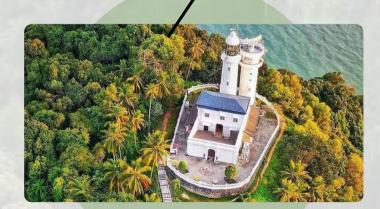
Tanjung Tuan
Recreational Forest



Wan Loong Temple



Pantai Keramat



Cape Rachado Lighthouse



Blue Lagoon Tanjung Biru

3 TYPES OF FOREST OF TANJUNG TUAN RECREATIONAL FOREST



COASTAL FOREST

Coastal Forest: Tanjung Tuan is located along the coastline, and it features a coastal forest ecosystem.

Coastal forests are characterized by a mix of trees and plants that are adapted to withstand the coastal environment, such as the sandy soils.

These forests play a vital role in protecting coastlines and providing habitat for coastal wildlifes.



HILL DIPTEROCARP FOREST

Hill Dipterocarp Forest: Tanjung Tuan is situated on a small hill, and the surrounding area likely includes hill dipterocarp forest.

Hill dipterocarp forests are common in Southeast Asia and are characterized by tall, broad-leaved trees belonging to the dipterocarp family.

These forests support a diverse range of flora and fauna and are important for watershed protection and carbon sequestration.



MANGROVE FOREST

Mangrove Forest: While not directly within Tanjung Tuan, nearby coastal areas contain mangrove forests.

Mangroves are specialized trees and shrubs that grow along tropical and subtropical coastlines.

These forests provide essential ecosystem services, such as protecting against coastal erosion, providing nursery grounds for marine life, and acting as a carbon sink.

FLORA OF TANJUNG TUAN RECREATIONAL FOREST

Situated close to Port Dickson, The 122 ha lowland forest of Tanjung Tuan is a unique coastal myrtaceous forest remnant of the west coast of peninsula Malaysia.



Chengal Tree
First class heavy hard wood construction
material in traditional malay houses



Cat's Claw Herb

Dietary supplement for various viral infections including HIV and human palimony virus.



Vanilla planifolia
Used in antioxidants, aromatherapy
flavouring and alleviates anxiety.



Used as sterilizer in operation rooms, as well as to cover meat during hunting.



Chinese White Olive
Anti-inflammatory and detoxifying
properties. used for an oil resin varnish
known as 'elemi' and for printing inks.



LianaForests with lianas grow 150%
more fruit; and have twice less the probability of dying.



Meranti Tembaga 200 year old; Different species have different colored bark. Used as local material for furnitures.



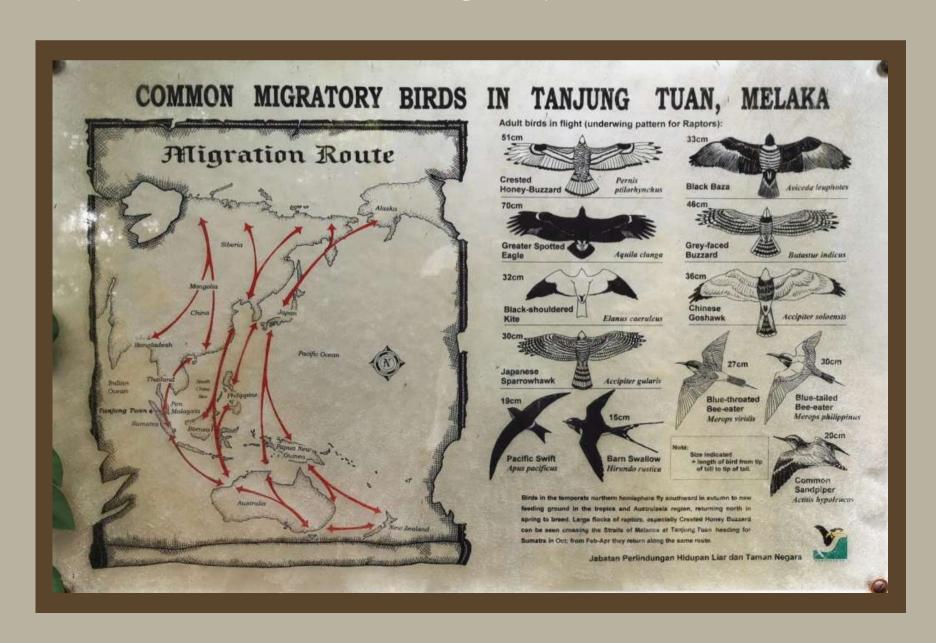
Rubber Tree
Seeds of rubber trees produce oil that can be used in soap, paints and varnishes.

MIGRATORY BIRDS OF TANJUNG TUAN RECREATIONAL FOREST

Tanjung Tuan has been designated as an IBA or Important Bird Area by international non-profit organization BirdLife International, one of 55 found around Malaysia.

The migration periods are usually from January to April, but mid-March is the peak period to spot the raptors. The best time to spot them is also around 11.00 AM to 3.00 PM.

At the Raptor Watch event, visitors can spot up to 46 species of raptors, and out of that, 25 are migrant species.





MIGRATORY BIRDS OF TA

OF TANJUNG TUAN RECREATIONAL FOREST



Asian Glossy Starling



Asian Paradise-flycatcher



Banded Kingfisher



Black-naped oriole



Blue-throated Bee-eater



Changeable Hawk Eagle



Coppersmith Barbet



Orange-headed Thrush



Greater Flameback



CONCLUSION

The presence of the three different types of forests should be amplified in the discovery centre.

A designated place for overnight stay (rooms) should be provided for birdwatchers.

TANJUNG TUAN RECREATIONAL FOREST

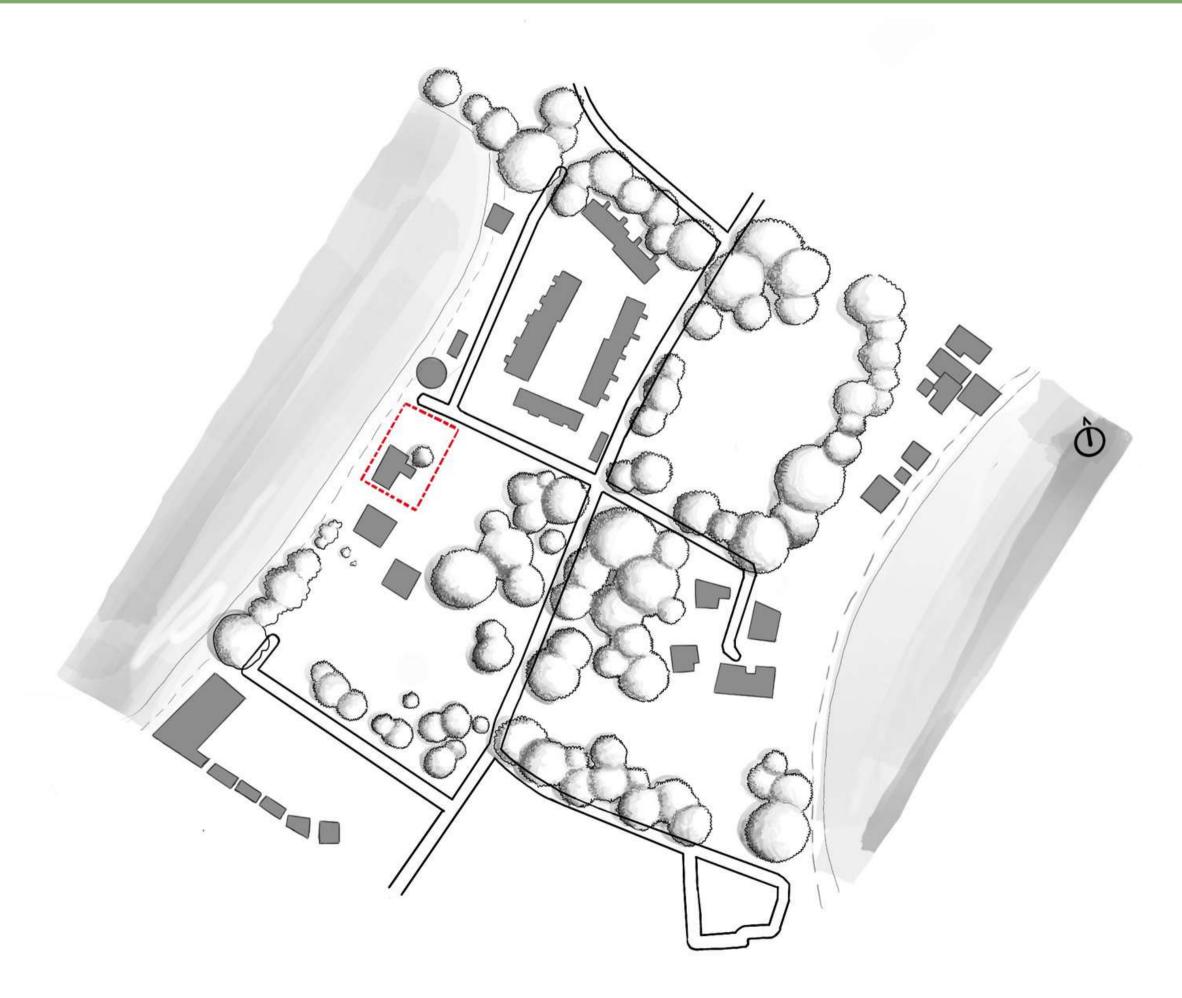
An open space, preferably elevated, to allow for birdwatching activities from the discovery centre without the need to hike throughout the forest.

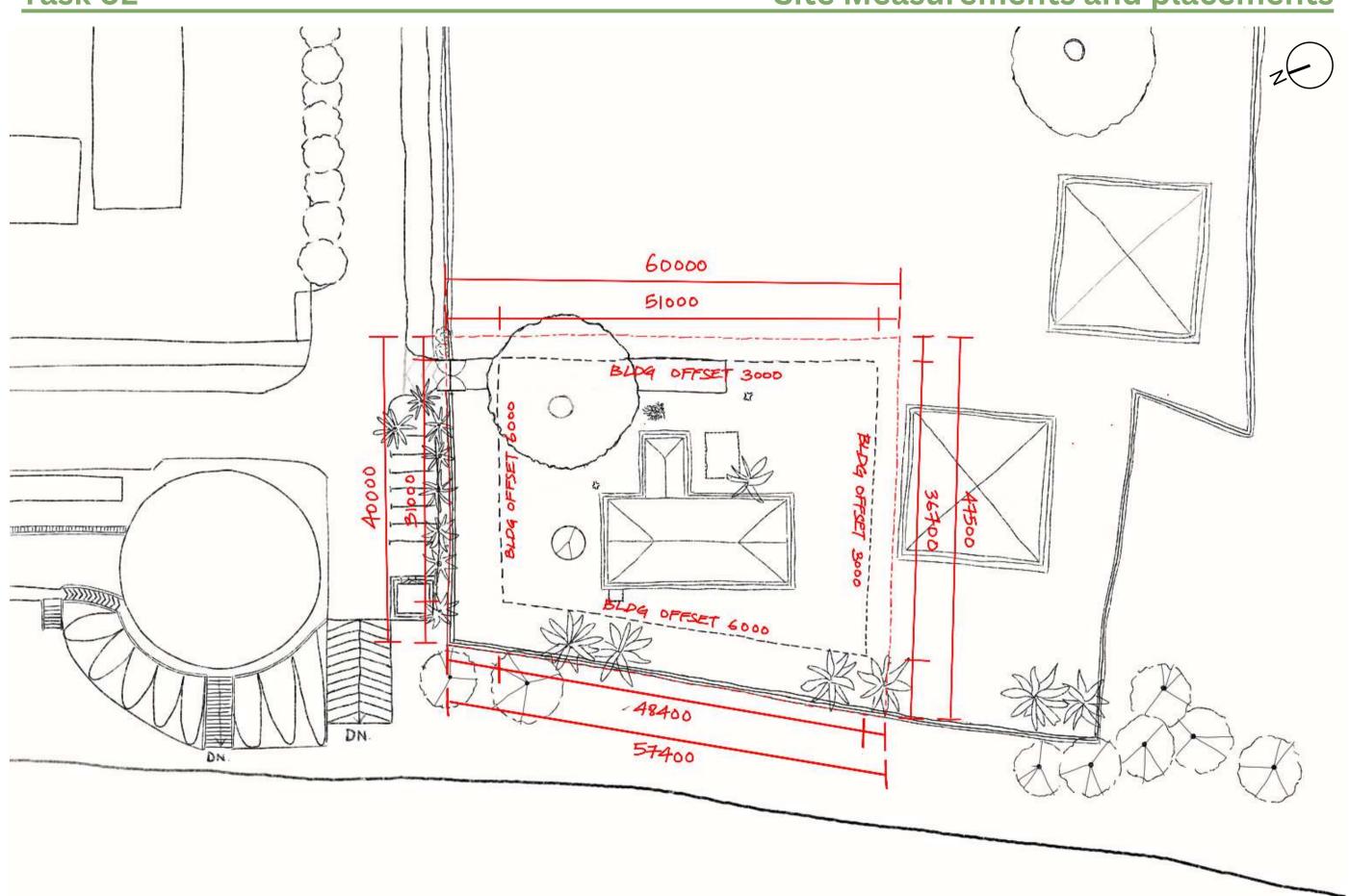
The discovery centre could consist of different routes that lead the user into different experiences inspired by the eight routes in the forest.

Elements to signify the historical aspect of the forest's rich history (lighthouse, reserve status, war invasions).

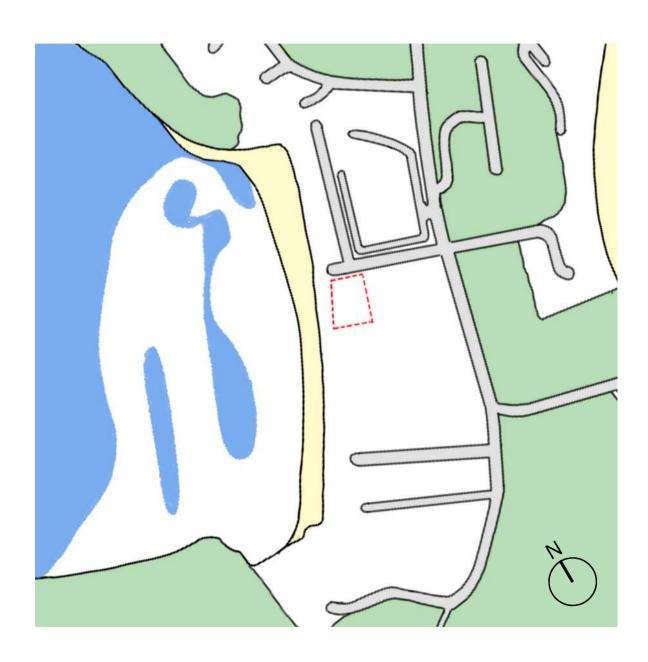
Discovery centre should make use of repurposed chengal wood for the construction process as it is native to the forest and its sturdiness, durability and resistance to termite attacks and fungal infestation.

TASK 02



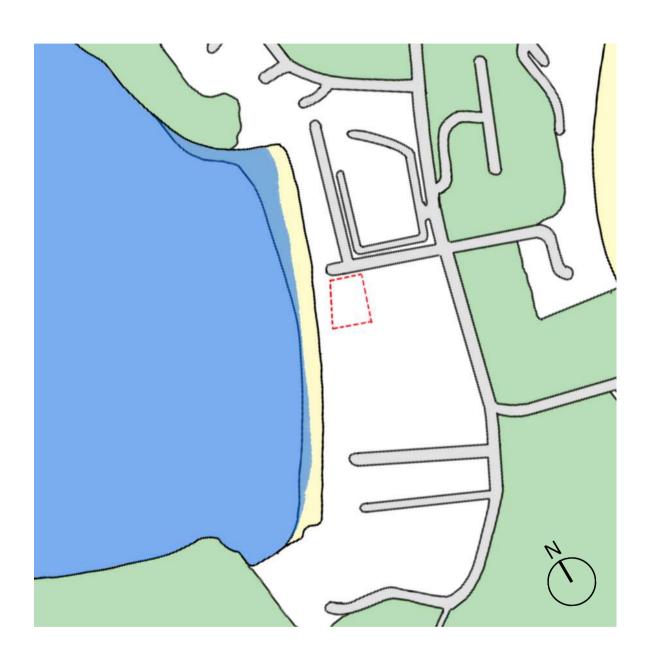


Low tide



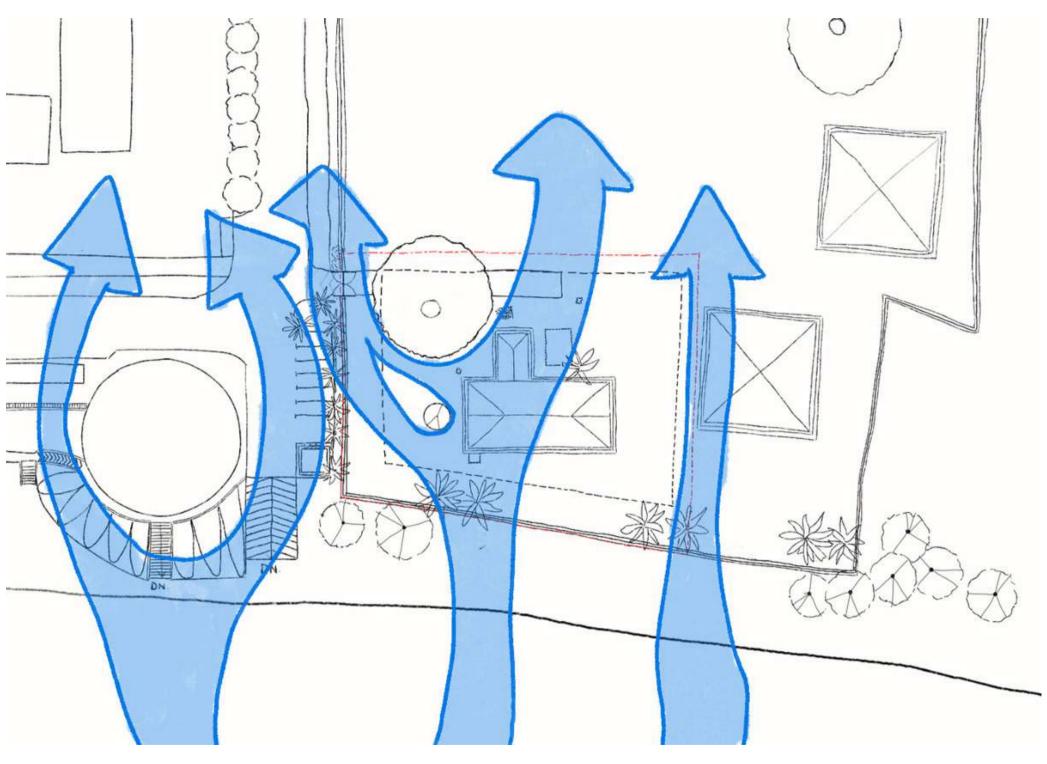
Land to sea distance: ~200m

High tide

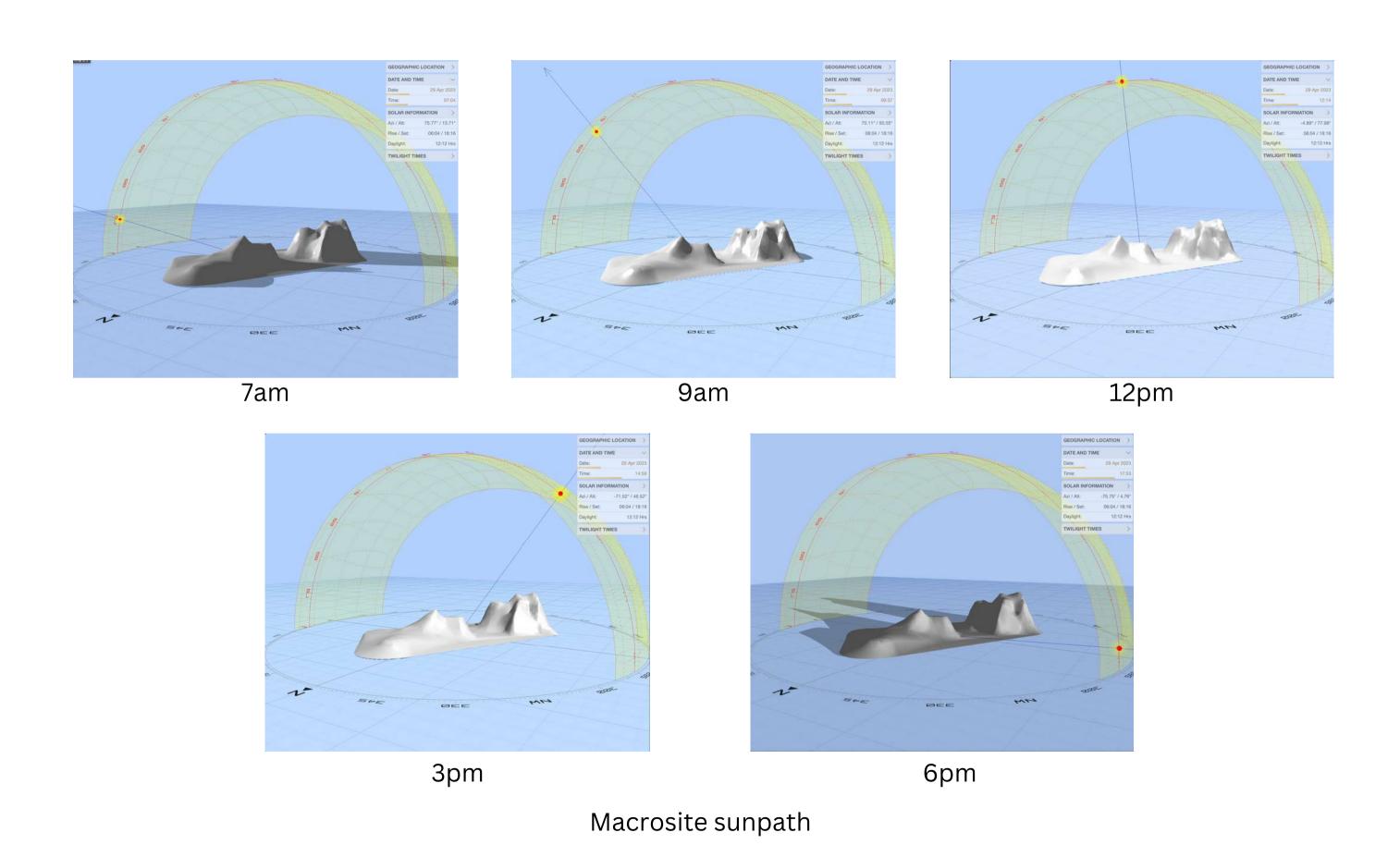


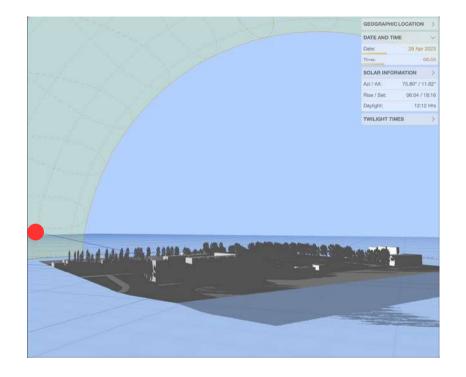
Land to sea distance: ~10m

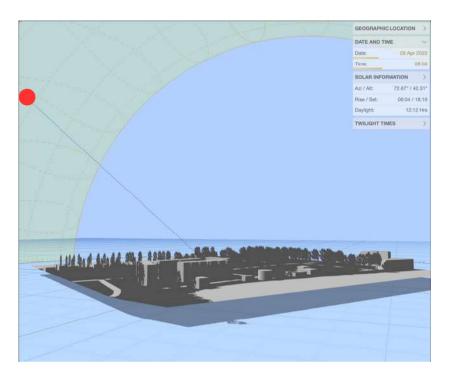


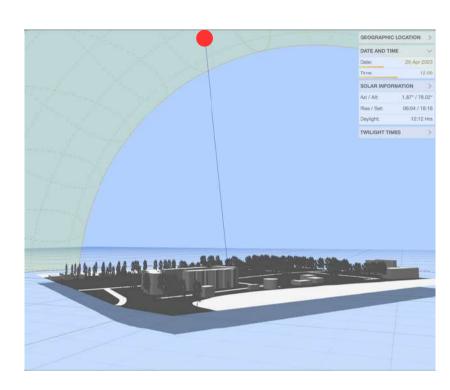


Wind direction (April)

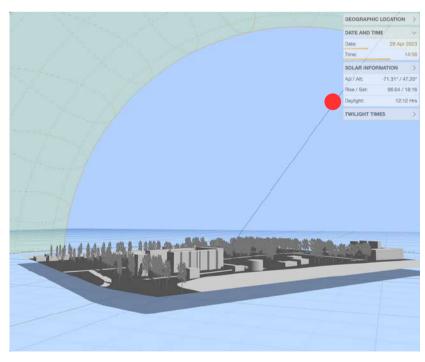


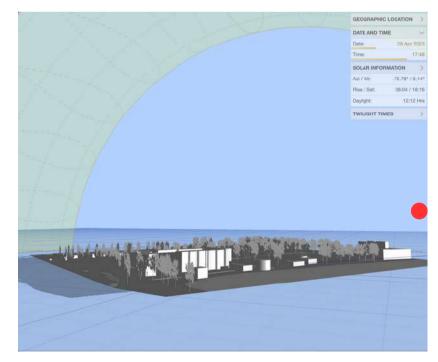






7am 9am 12pm

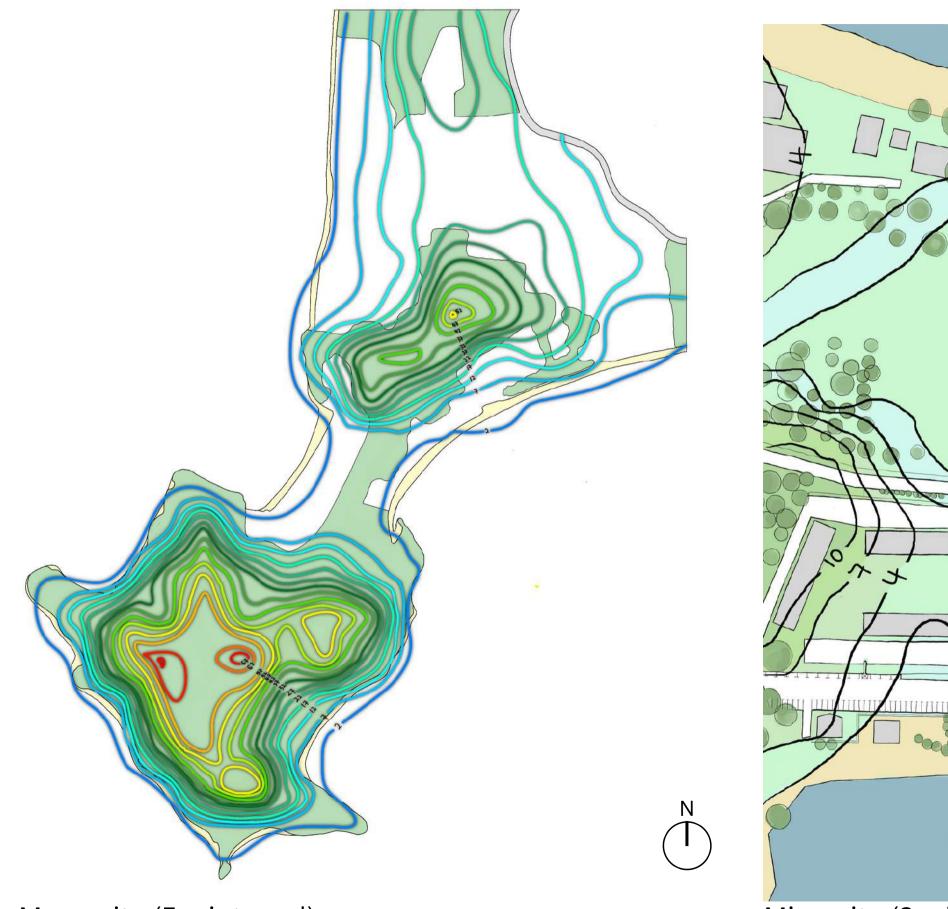


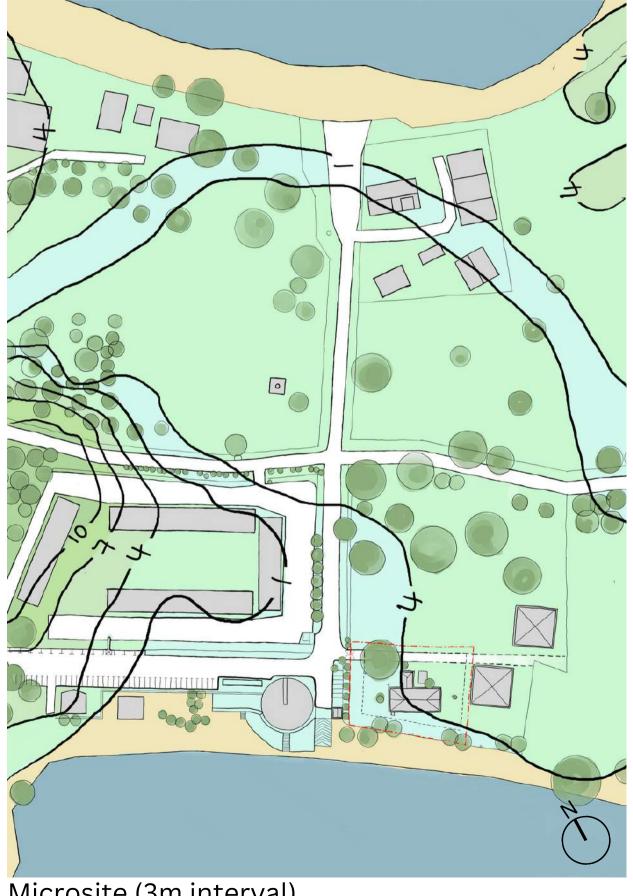


3pm 6pm

Microsite sunpath

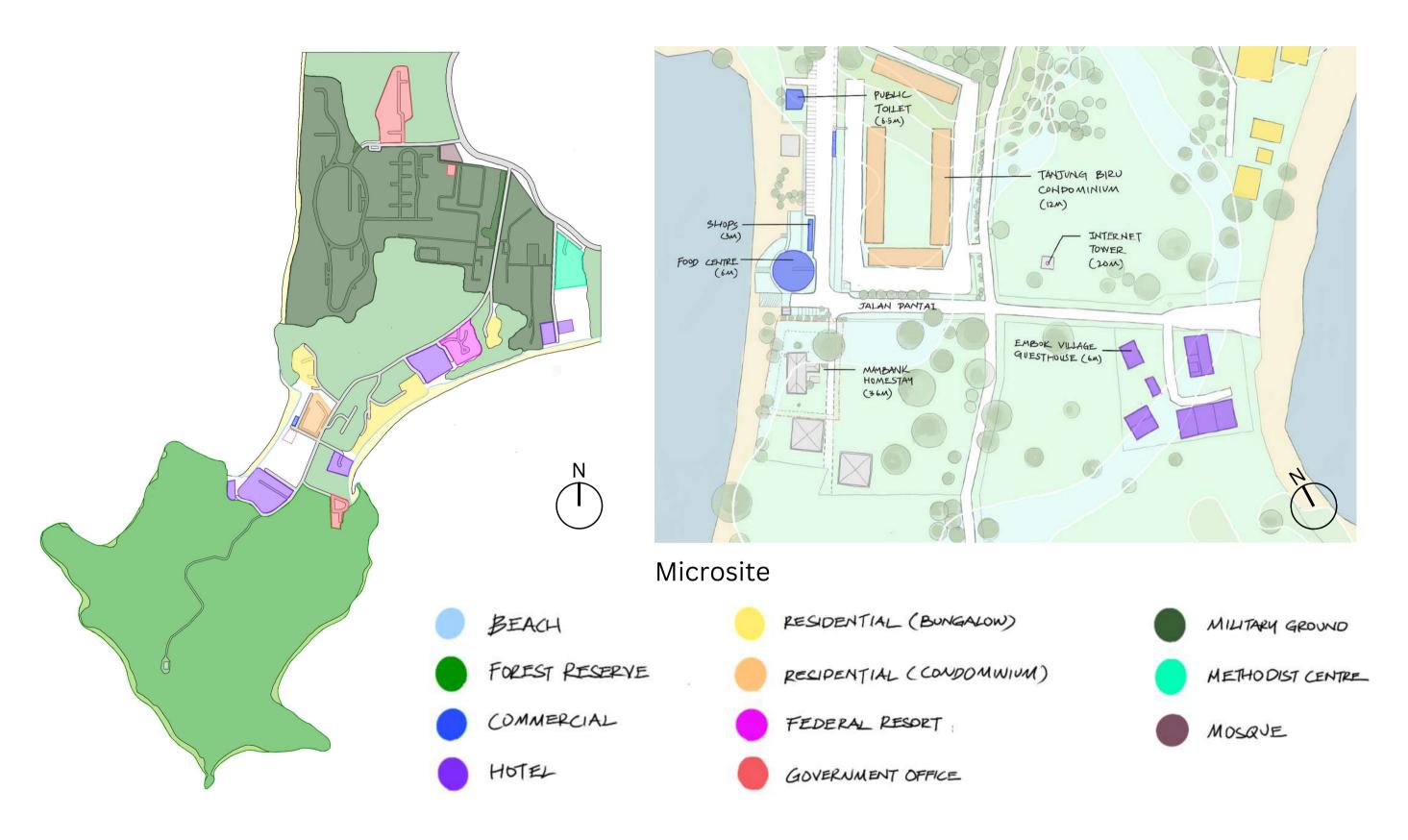
Task 02 **Site contours**





Microsite (3m interval)

Macrosite (5m interval)



Macrosite

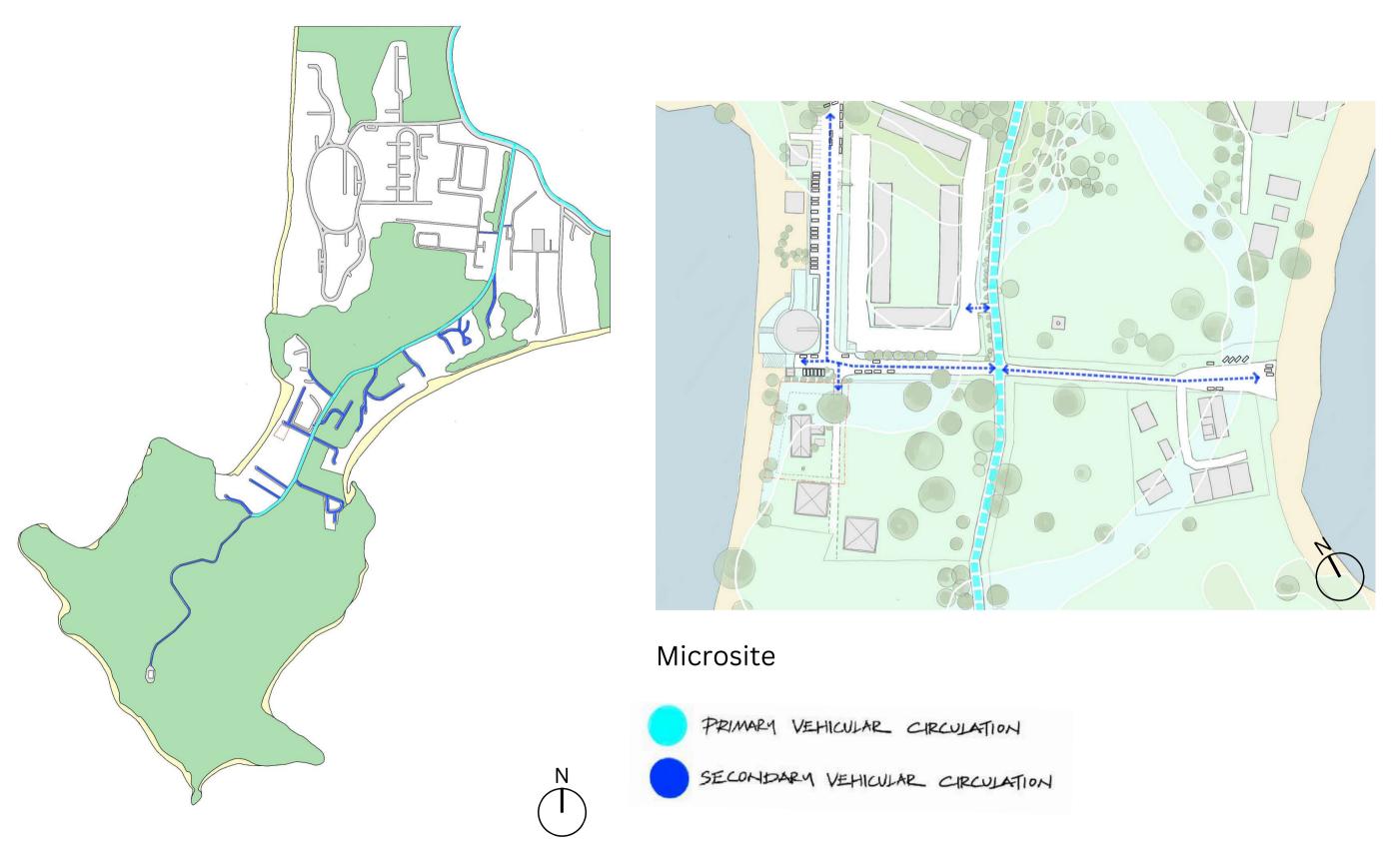
Task 02 Adjacent Street

Jalan Pantai

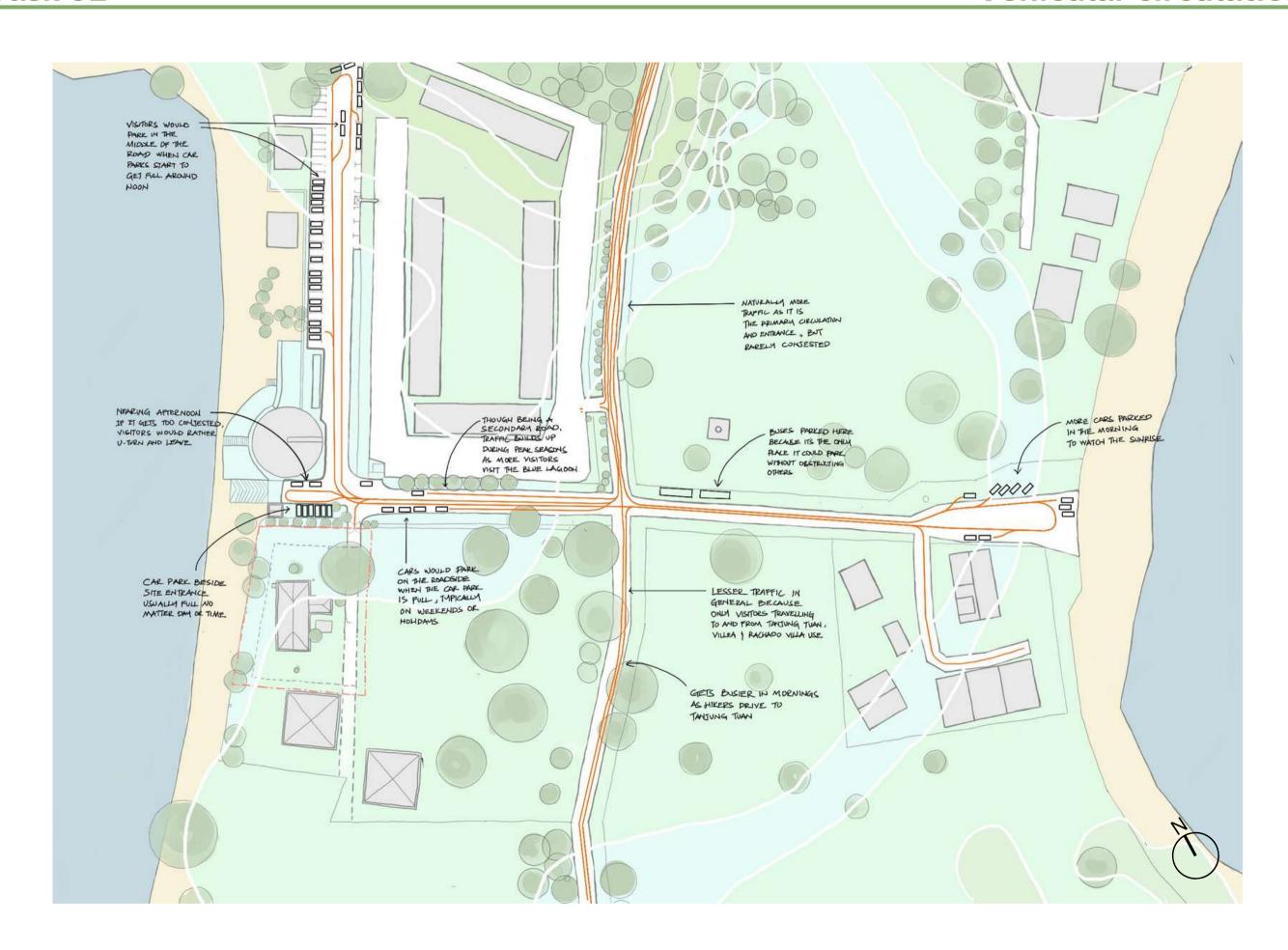








Macrosite

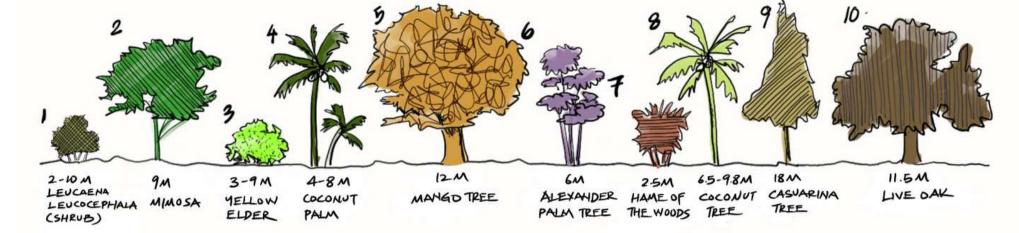




Vegetation Heights



Leucaena Leucocephala



ALEXANDER PLAM TREE



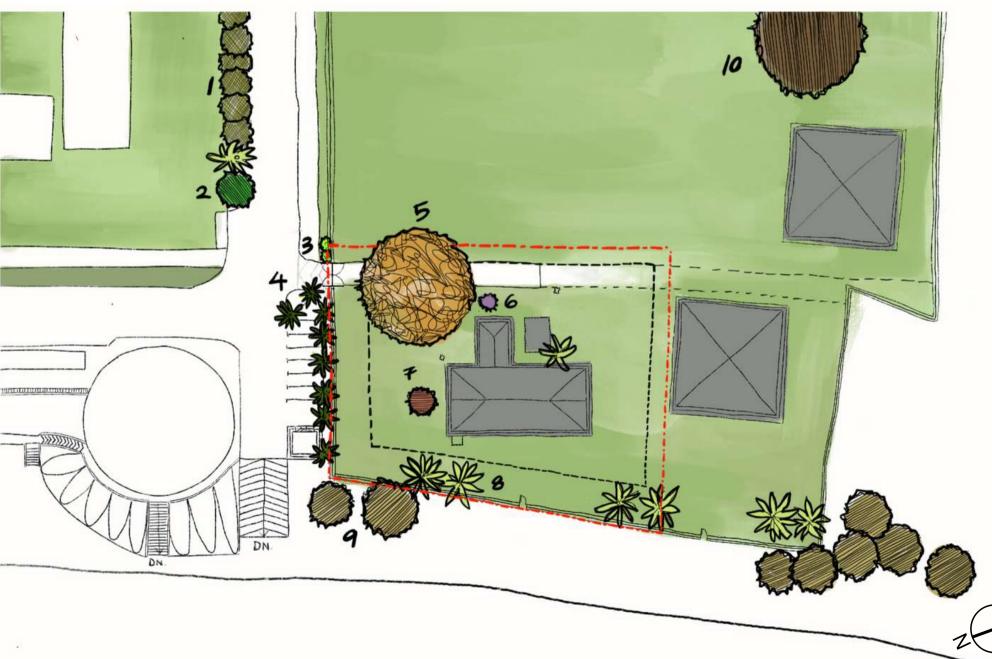




Mango Tree



Scale: NTS



Flame of the Woods



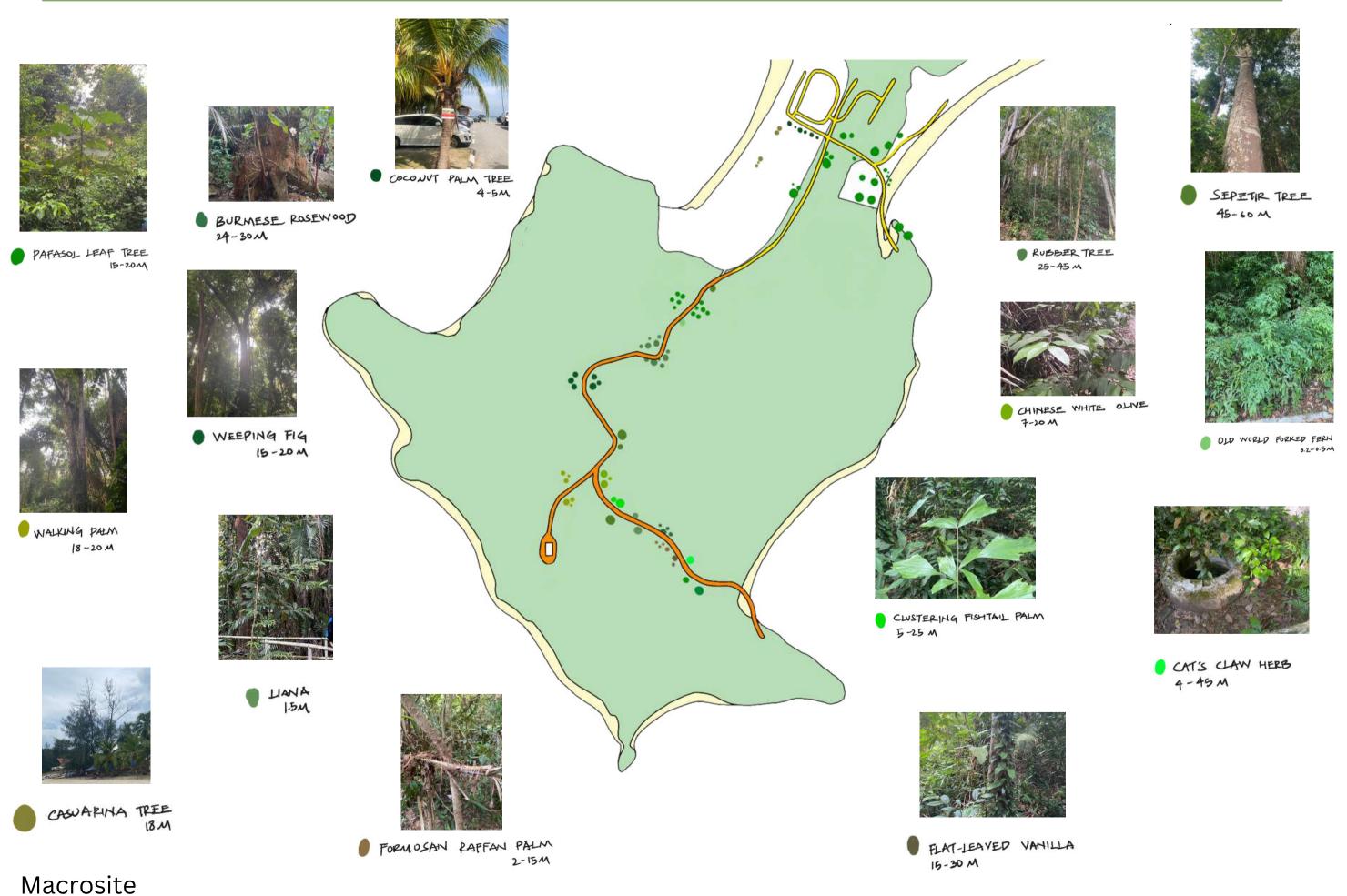
Coconut Tree



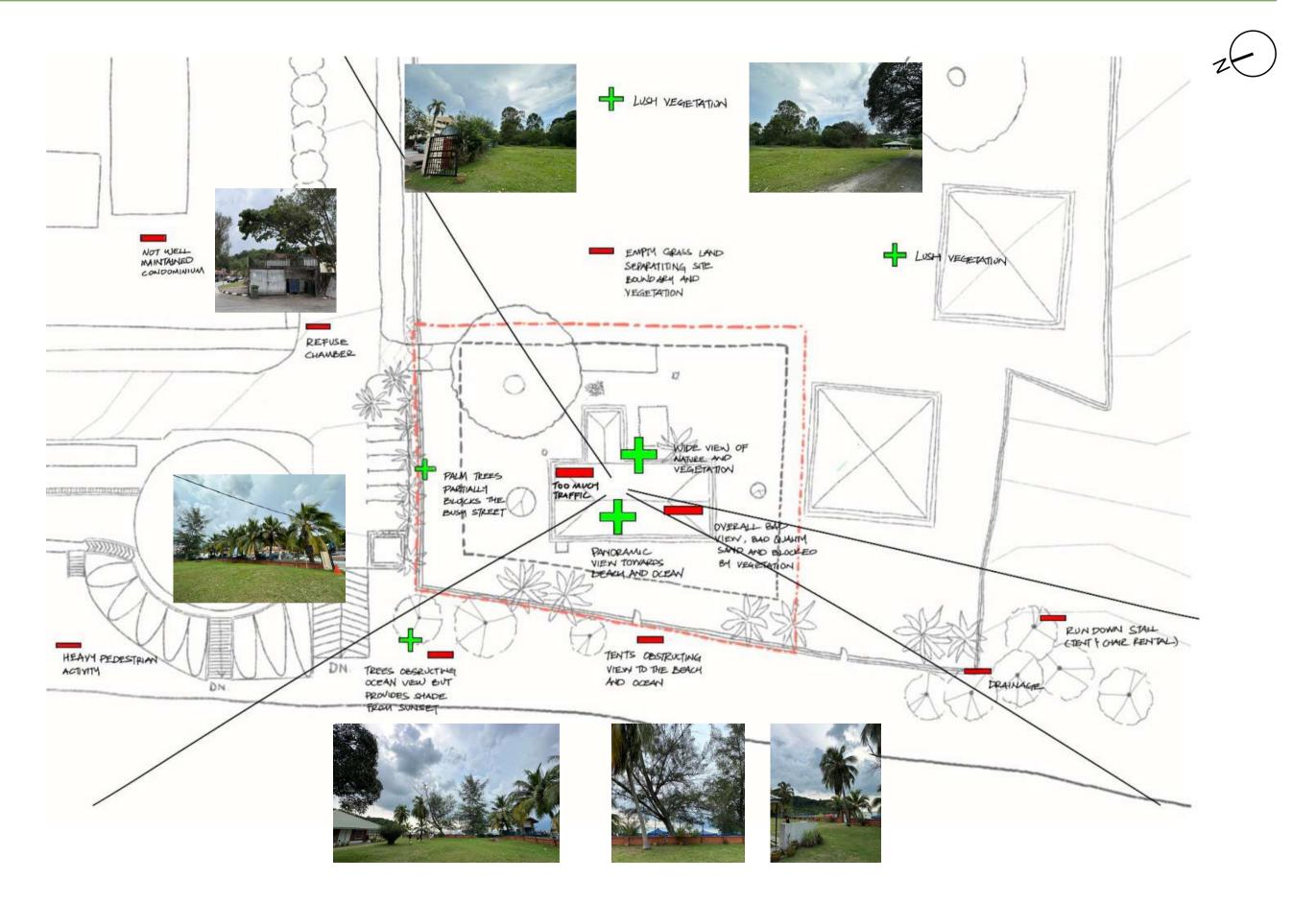
Casuarina Tree

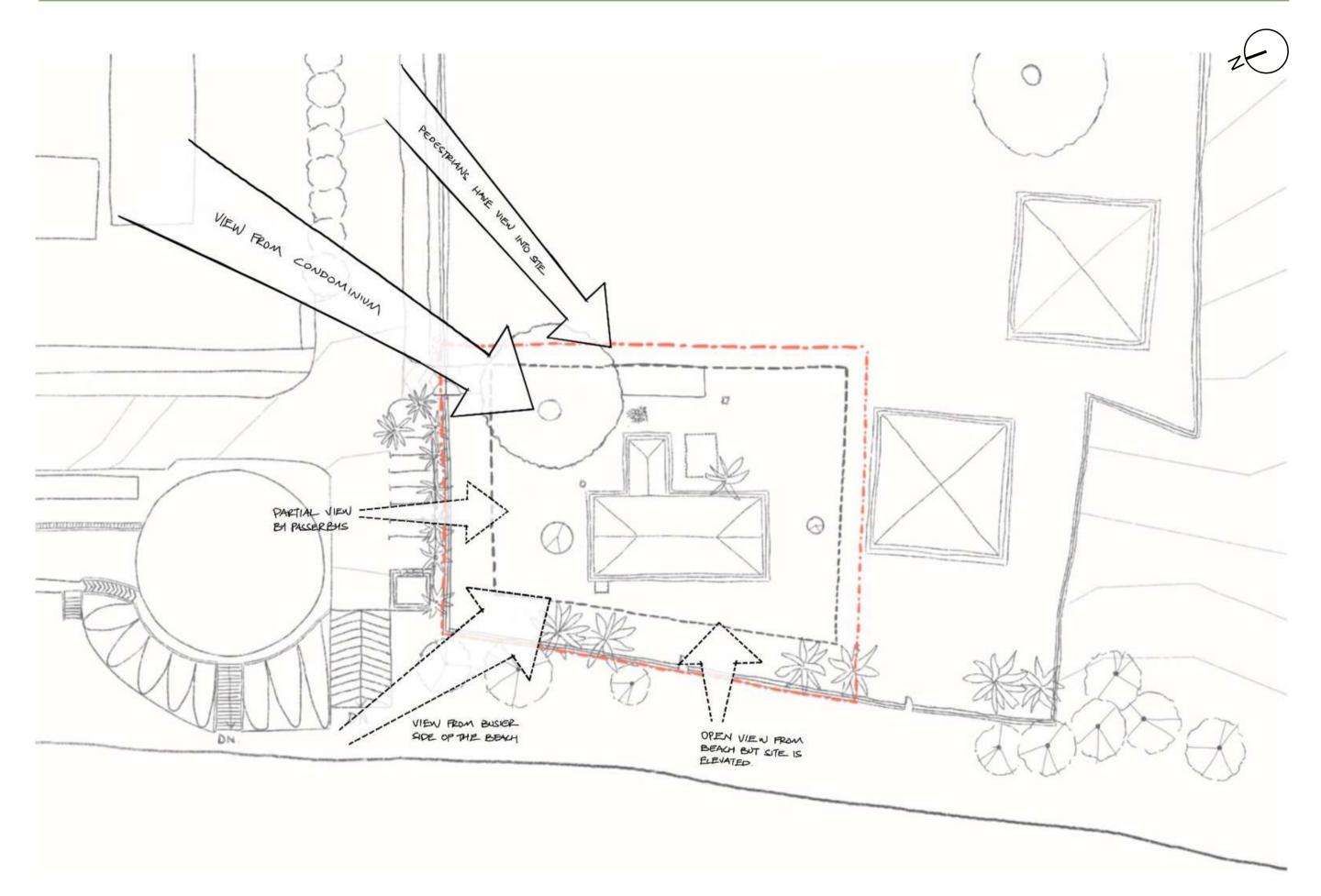


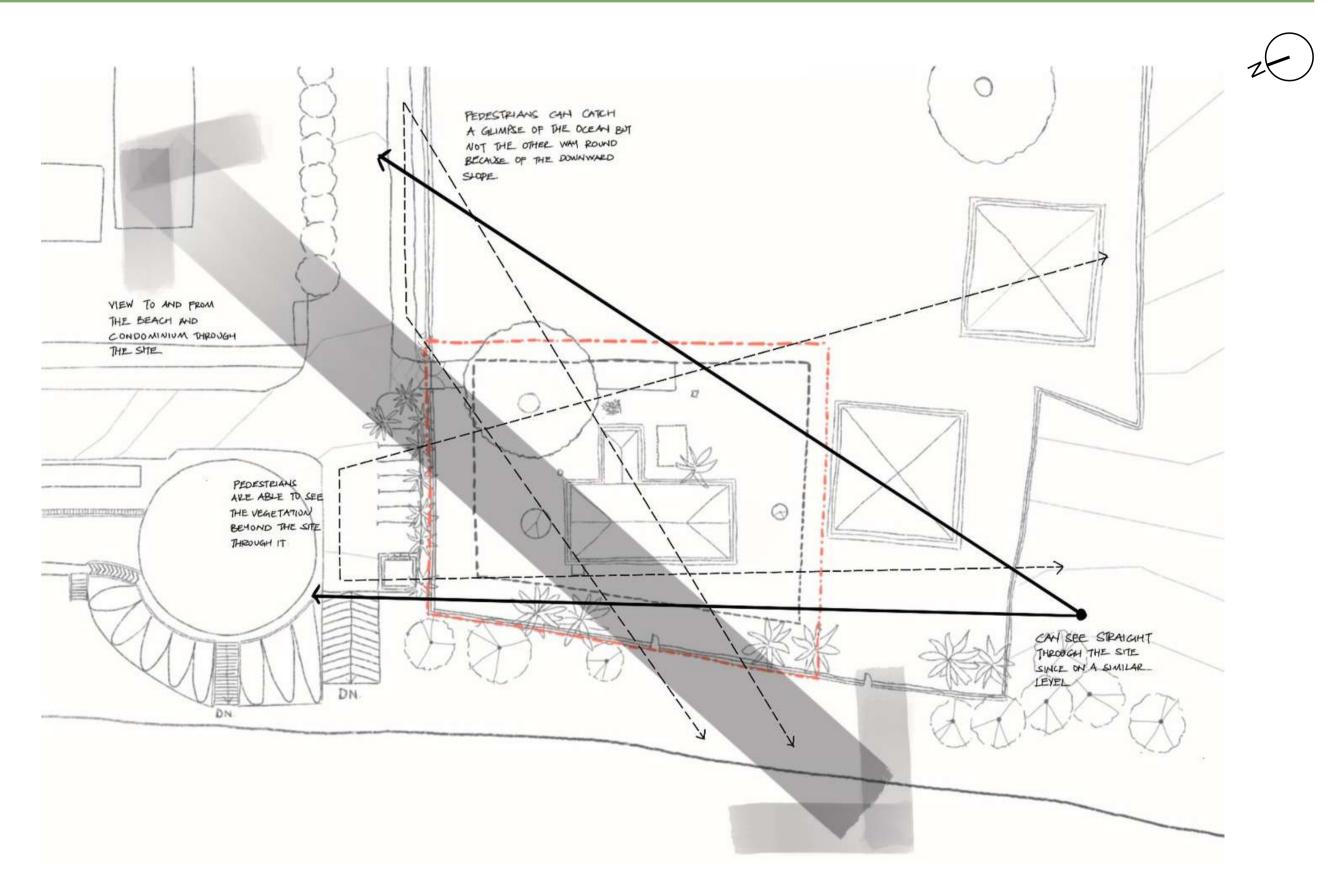
Live Oak



Task 02 View from site





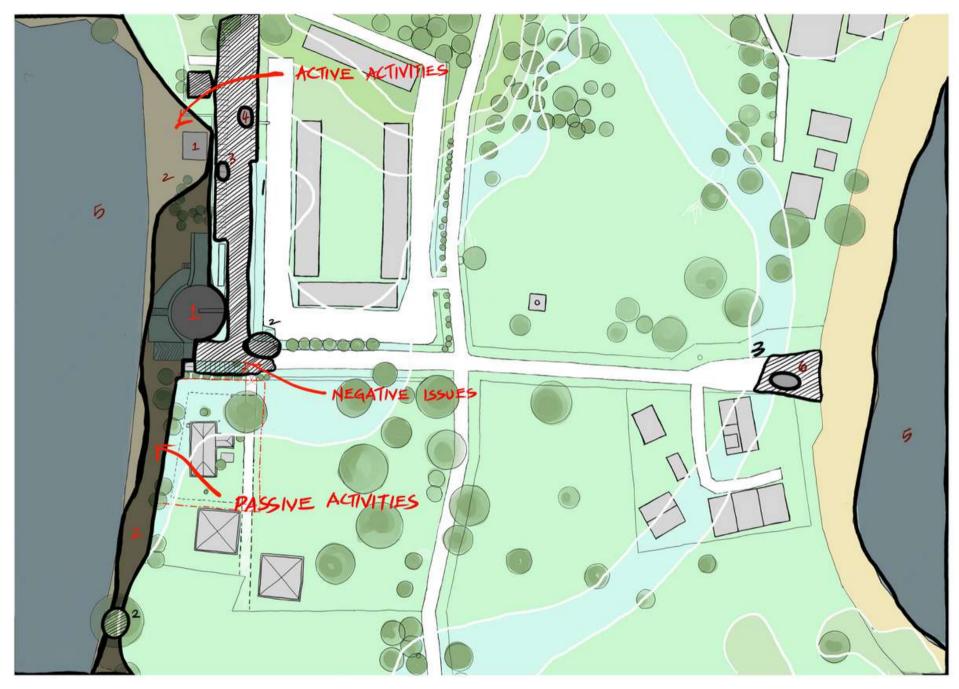


CANOPY RENTAL

4. ROADSIDE STALLS

DRINKS

SELLING SNACKS AND



PASSIVE ACTIVITIES

1. FOODCOVET MANY OF THE LOCAL CUISINES SOLD IN THE



2. CAMPING

CAMPERS BRING THEIR OWN TENT TO THE CAMPSITE SET UP IN THE EVENING AND DISASSEMBLE THE NEXT DAM AFTER LUNCH



NEGATIVE ISSUES

1. MINOR PARKING ISSUES WHERE SOME OF THE VISITORS TEND TO STOP THEIR CARS IN THE MIDDLE OF THE ROAD FOR THEIR OWN CONVENIENCE



2 SEPHOUS LITTERING PROBLEM CAUSED BY INAPPROPRIATE MANAGEMENT AND SELFISHNESS OF USERS





ACTIVE ACTIVITIES

1. PLAYGROUND 2. PUN-PUN MORE KIPS WITHE EVENING



3. SELLING ICE CREAM FROM A TRICYCLE



5. BEACH ACTIVITIES



a) COLLECTING CHUT-CHUT SNAILS 6) KITE FLYING



9 NIGHT LIFE

LOCALS GO TO THE MIDDLE OF THE SEA TO CHECK THE THY CRABS OUT MORE CRABS COULD BE CAUGHT WHEN IT IS HIGH TIDE



e) "SAND CASTLE" TOOLS TO BALD SAND SAND CASTLES CAN BE SEEN



d) EXTREME ACTIVITIES MANY VISITORS COME TO PP TO ENJOY EXTREME SPORTS OH THE SEA LIKE ! KAYAKING, BANANA BOAT ...

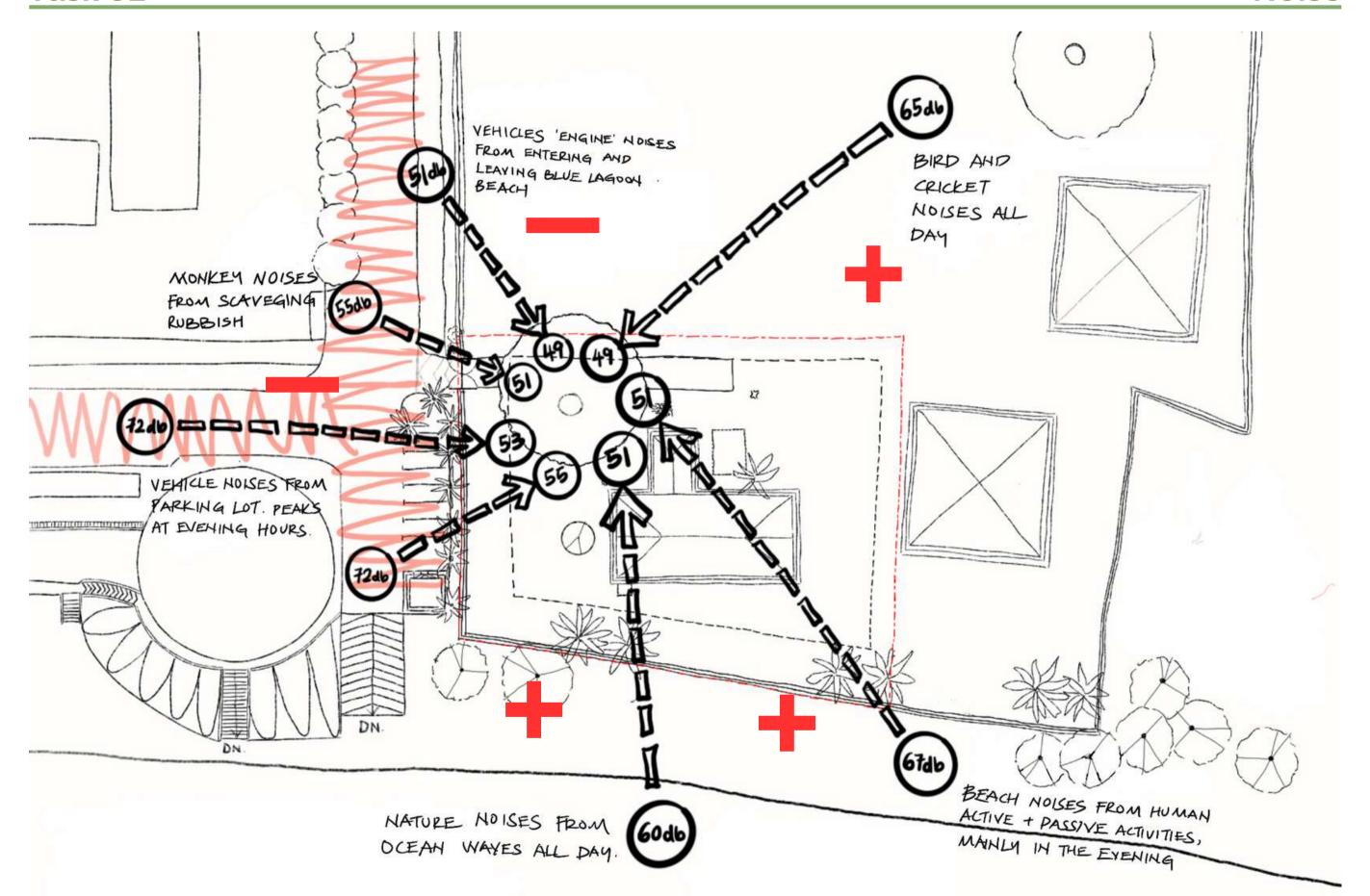


6. ROADSIDE STALL BUYERS CAN BARGAIN

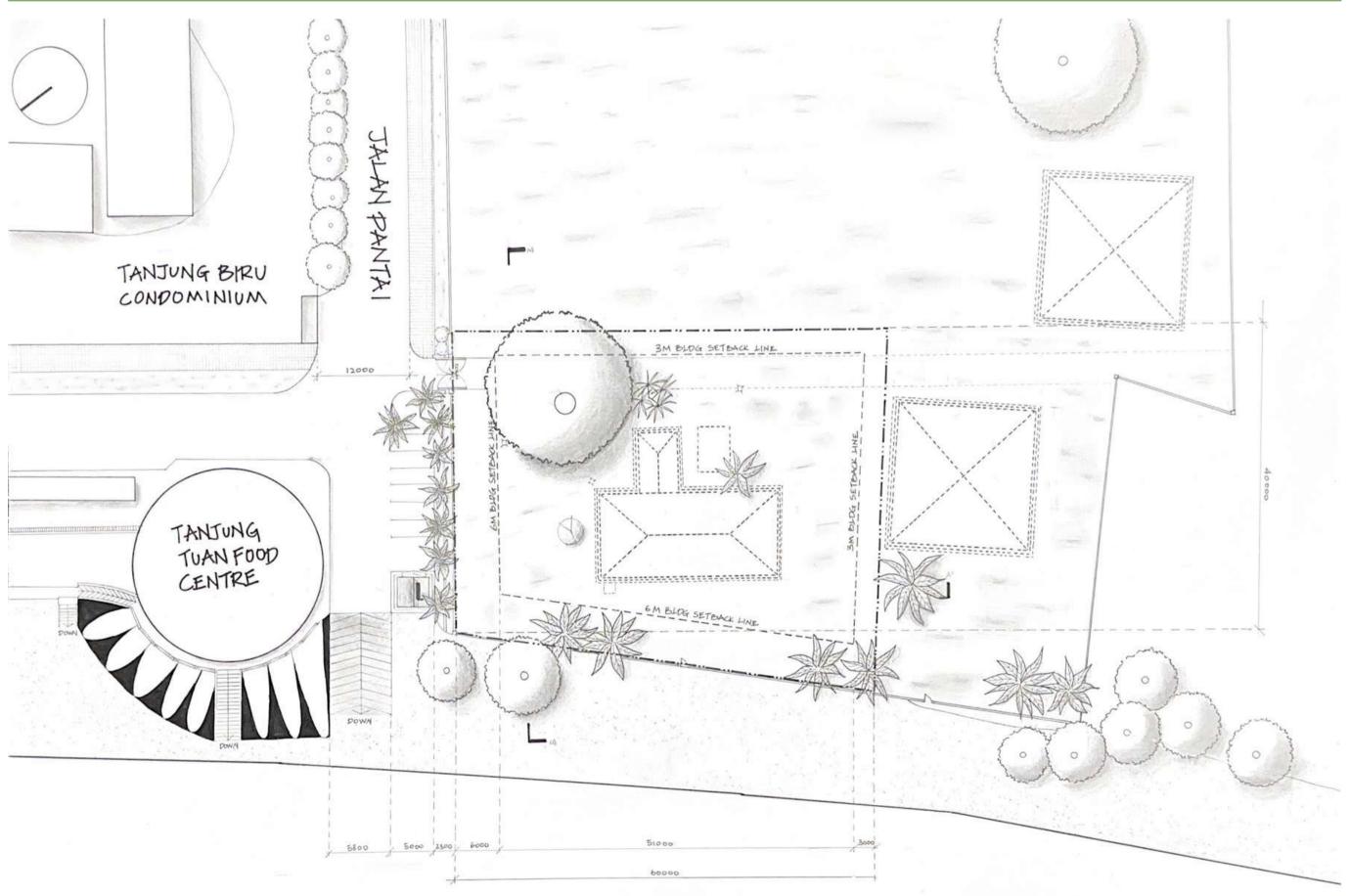


VISITORS ARE ABLE TO BUY CASTLES FROM NEARBY STALLS . MANY INTERESTING





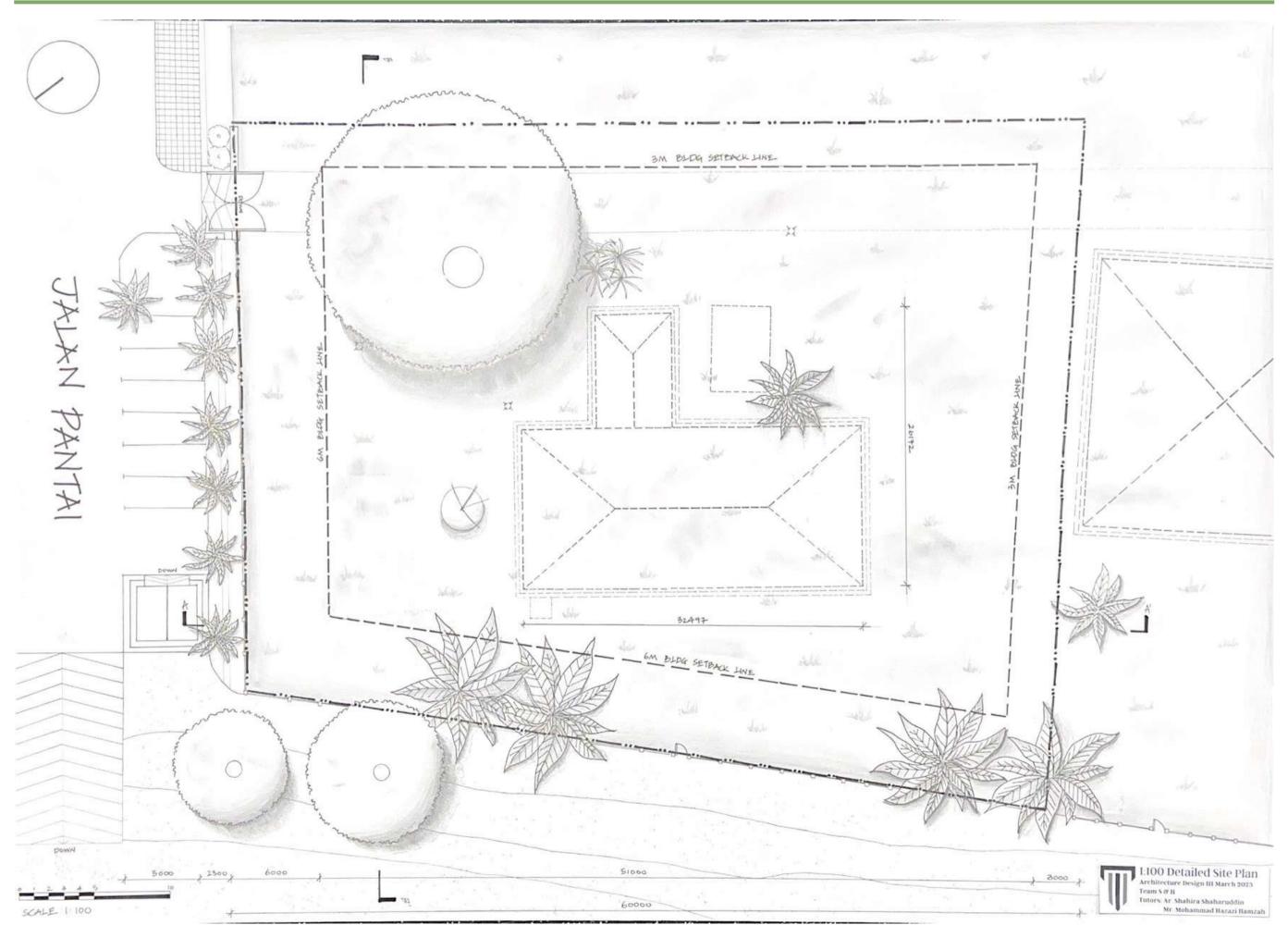
TASK 03

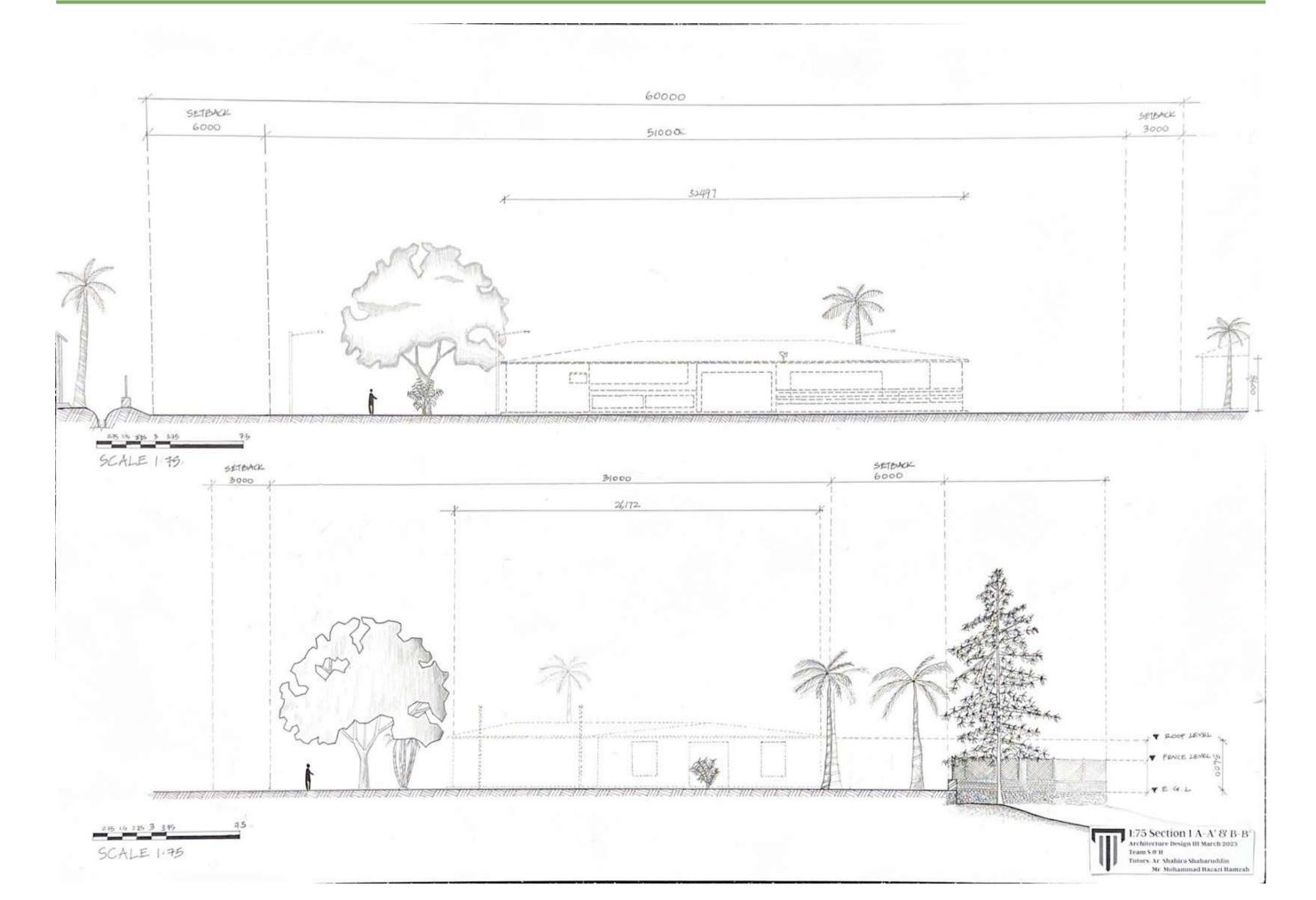


05 | 15 2 25 E

BLUE LAGOON BEACH









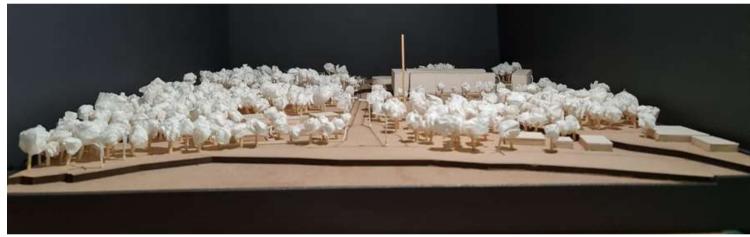
Top View



Perspective View



Front View



Rear View



Perspective View



Left view



Close up detail



Close up detail



Close up detail



Close up detail

TASK 04A





BOARD 1 TANGIBLE

NESTLED ON THE MALAYSIAN COAST, PORT DICKSON IS A TOWN OF ENCHANTING GENIUS LOCI. WHERE THE FUSION OF COLONIAL AND TRADITIONAL MALAY ARCHITECTURE AND THE STUNNING NATURAL BEAUTY EVOKE A SENSE OF WONDER THAT IS DEEPLY EMBEDDED IN THE TOWN'S HERITAGE, IT'S INTRIGUING PAST AS A FORMER BRITISH MILITARY **CUTPOST DURING WORLD WAR II** ADDS ANOTHER LAYER TO ITS ABSTRACT CHARACTER. WHILE THE TANJUNG TUAN FOREST, MONKEY BAY, AND PANTAI TANJUNG BIRU EACH CONTRIBUTE THEIR UNIQUE ALLURE. THE TOWN'S LANDMARKS, ARCHITECTURE, AND NATURAL SURROUNDINGS COME TOGETHER TO TELL A STORY OF A PLACE THAT HAS EVOLVED OVER TIME WHILE MAINTAINING ITS CULTURAL ROOTS. PORT DICKSON INVITES VISITORS TO LOSE THEMSELVES IN THE SPELLBINDING ATMOSPHERE OF THE TOWN AND TO CONNECT WITH THE BEAUTY, HISTORY, AND SPIRIT OF THIS CAPTIVATING LOCATION WHERE CULTURES AND NATURE ARE HARMONIOUSLY INTERTWINED.

BOARD 2 INTANGIBLE

PORT DICKSON, SITUATED ON THE MALAYSIAN COAST, IS NOT JUST A TOWN OF ENCHANTMENT, BUT ALSO A SPIRITUAL HAVEN THAT TOUCHES THE HEARTS OF ALL WHO VISIT. THE TOWN'S RICH PAST SERVES AS A BEACON OF HOPE, ILLUMINATING THE PATH TOWARD A BRIGHTER FUTURE FOR THE NEXT GENERATION. PORT DICKSON'S CAPTIVATING ATMOSPHERE, COMBINED WITH ITS RICH HISTORY, INSTILLS A DEEP SENSE OF SPIRITUALITY AND ENCOURAGES MANKIND TO LIVE IN HARMONY WITH BOTH THEIR SURROUNDINGS AND THEIR OWN INNER BEING, PORT DICKSON SERVES AS A SANCTUARY WHERE THE PAST, PRESENT, AND FUTURE CONVERGE, ALLOWING THE TOWN TO FLOURISH AS A PLACE WHERE SPIRITUALITY AND THE WONDERS OF NATURE COEXIST IN PERFECT

HARMONY

TASK 05

GENIUS LOCI

Port Dickson has a rich history intertwined with its natural beauty. The secluded bay in Tanjung Tuan features a vast view of the sea while enveloped by hills filled with lush greenery. Its a community where wildlife gather as well, given the proximity to the Tanjung Tuan Forest Reserve. It is an escape that attracts many people to come for recreational purposes.

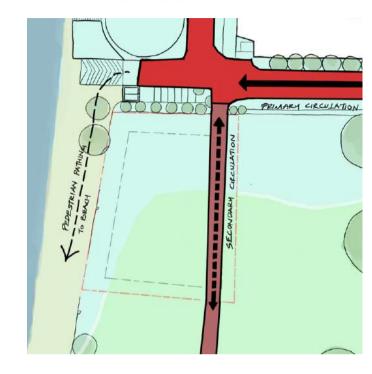
CONCLUSION

The design should respond to the breathtaking views of Tanjung Tuan especially the sea and the site conditions. Our aim is to showcase and experience the beauty of Tanjung Tuan through architecture. The design should reflect its natural beauty and its rich history. It should feel welcoming to people so that the community are able to experience it.

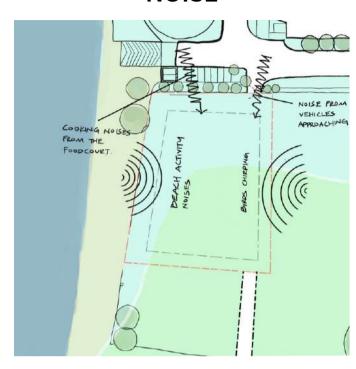
SUNPATH AND VENTILATION

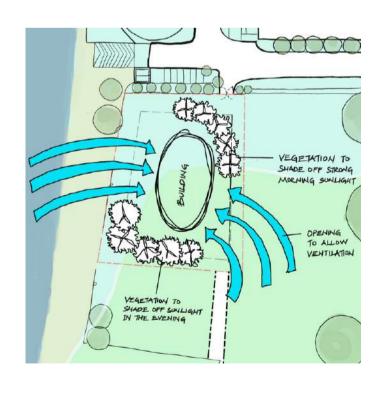


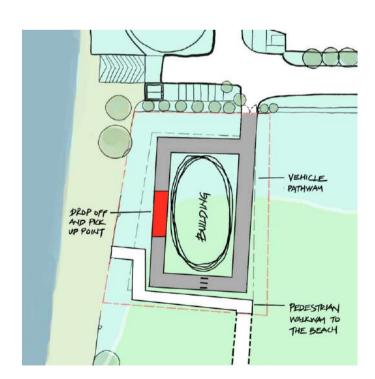
CIRCULATION

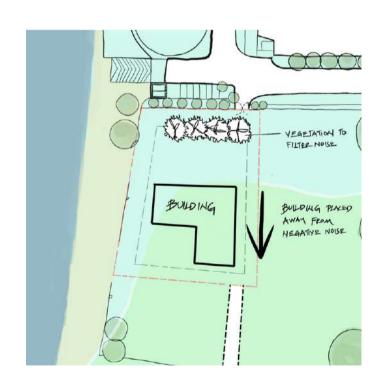


NOISE

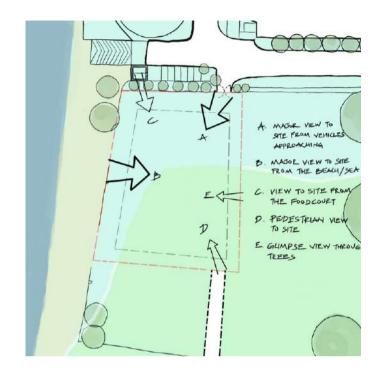




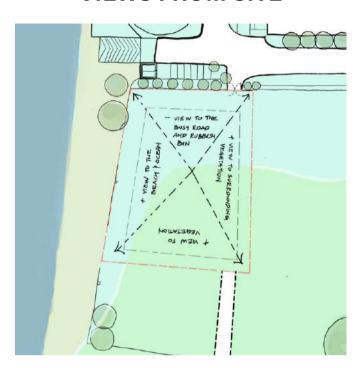


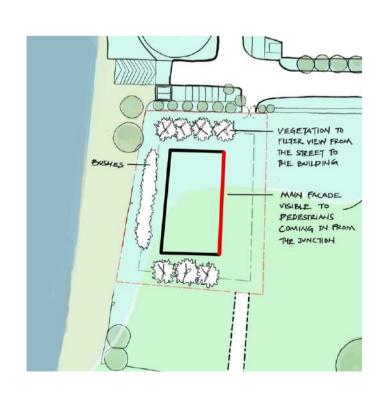


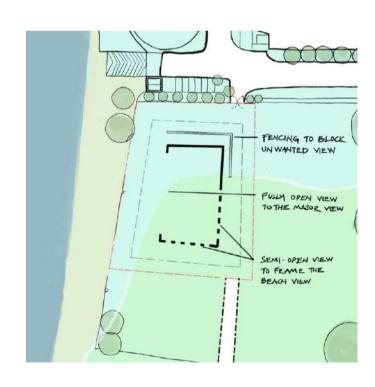
VIEWS TO SITE

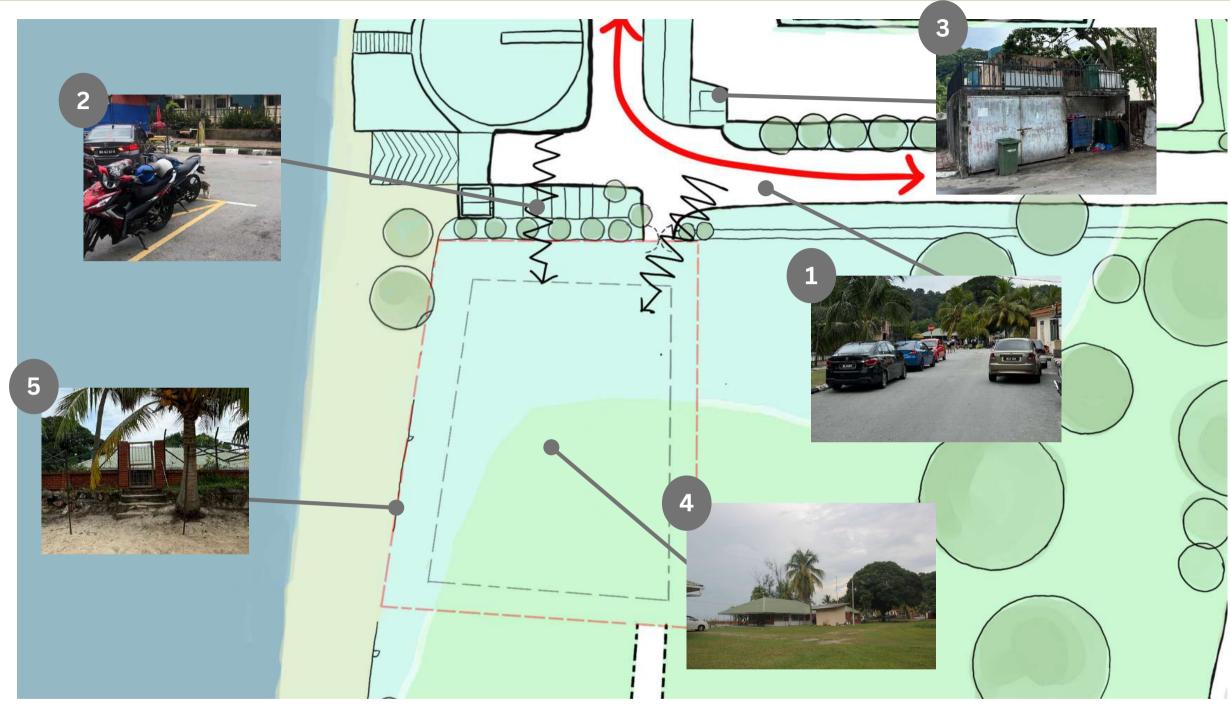


VIEWS FROM SITE











CIRCULATION

- Illegal parking
- Congested road
- Negative road

2

NEGATIVE NOISE

- Vehicular noise from road
- Boat engine noise

3

SMELLS

- Garbage point
- Monkey rummaging through garbage
- Negative view



SUN GLARE

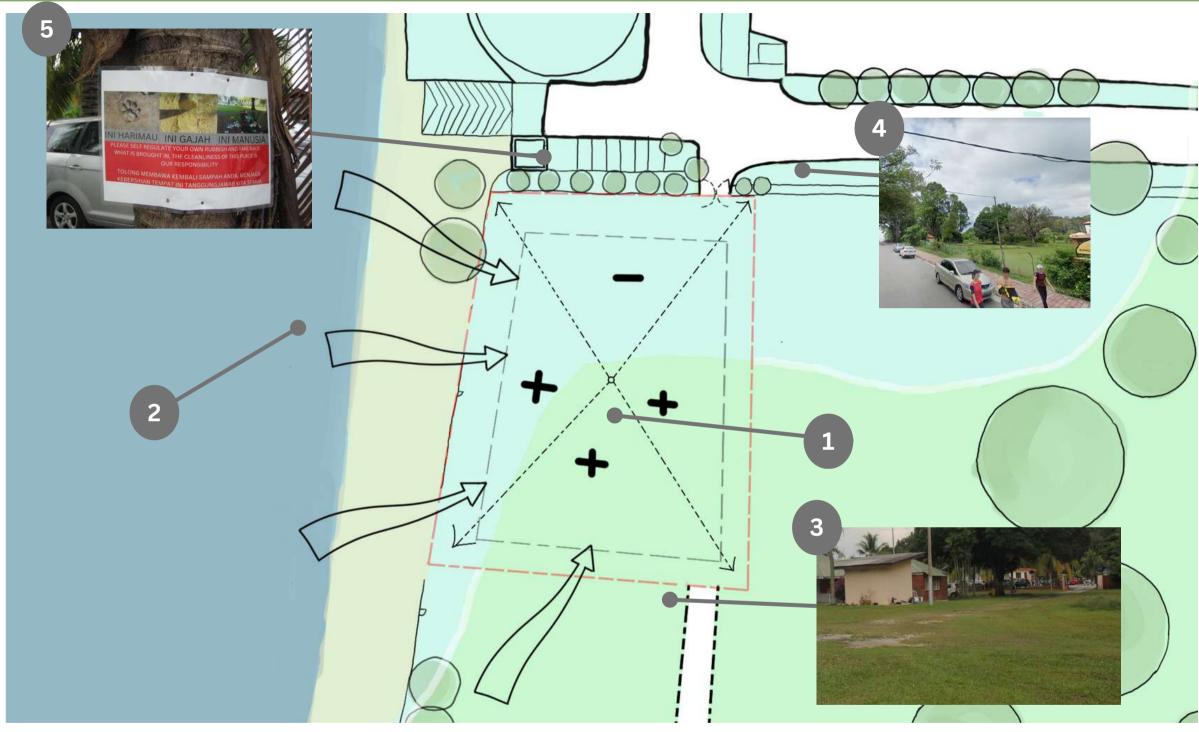
- Afternoon sun & morning sun produces glare
- Uncomfortable for eyes



ACCESS POINT

- Broken staircase
- Difficulty using the staircase
- Prone for user to fall

Task 05 Consideration





VIEWS

- Building facing west for positive view
- Use vegatation/fencing to filter negative views

2

VENTILATIONS

- Open space in/between building to allow crossventilation
- Open courtyard
- Lighter materials used

3

EXISTED PATHWAY

- Continuation of existing pathway into site
- Use it as a public access to beach and building



LACK OF LIGHT POLES

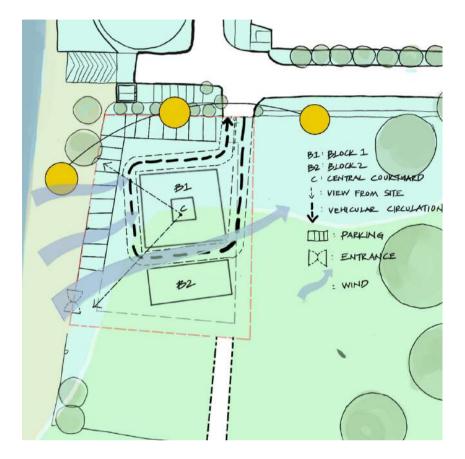
 Use artificial lighting with high lux to indicate entry point near road



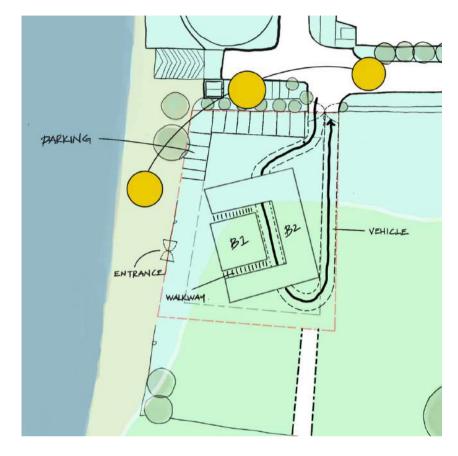
LITTERING

 Provide designated rubbish bins for trash

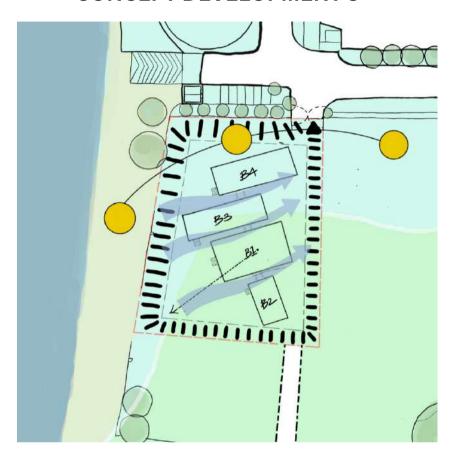
CONCEPT DEVELOPMENT 1

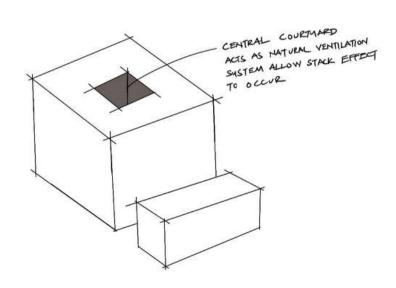


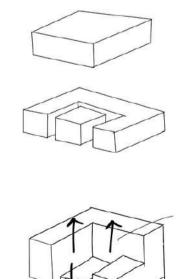
CONCEPT DEVELOPMENT 2

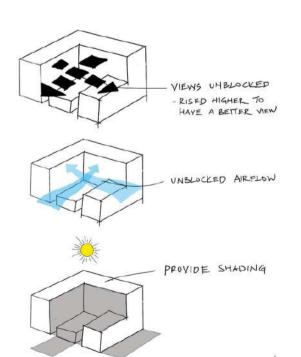


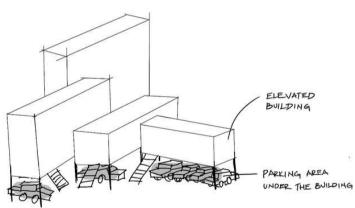
CONCEPT DEVELOPMENT 3

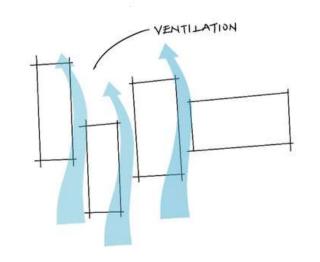












THANK YOU VERY COOL <3



