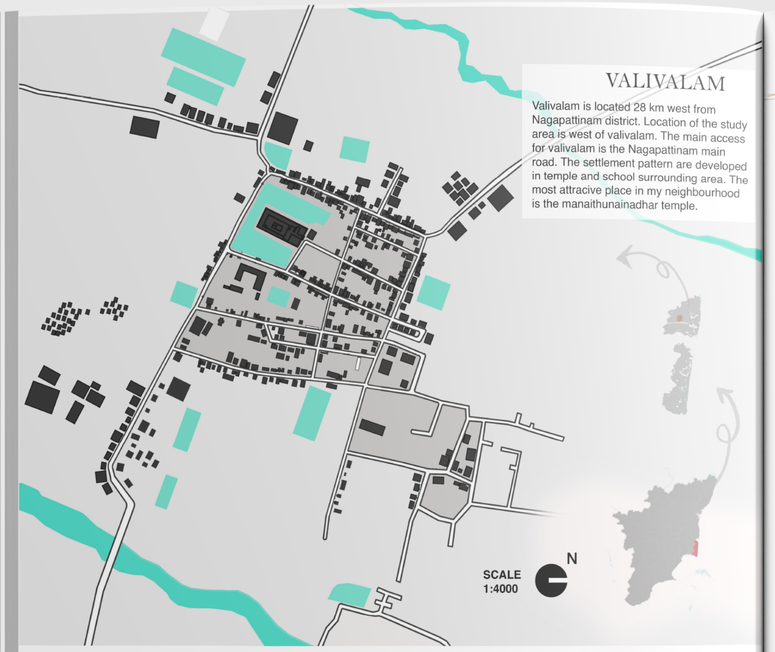
Urban
Design
2020
Ar. Guru prasath



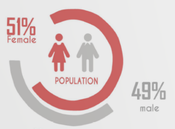
VALIVALAM

Valivalam is located 28 km west from Nagapattinam district. Location of the study area is west of valivalam. The main access for valivalam is the Nagapattinam main road. The settlement pattern are developed in temple and school surrounding area. The most attracive place in my neighbourhood is the manaithunainadhar temple.

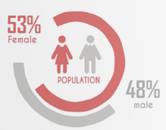
Demographics study

City population is about 1,616,450 among them 49% are males and 51% are females.

The total population growth of the male and females is 934 : 1001 and the total population 1935 members. There are totally 497 families.



Nagapattinam



valivalam

Urban - 22 %

Rural - 78 %

study area justification

The centre zone of valivlam is chosen as a part of urban intervention.

This Area has good heritage value due to the location of manaithunainadhar temple and the temple tank

Designing of proper pestrain path along with sitting spaces enhances the view of the place.space for school students is also designed, so that they can also access after the school hours.

As it is in the centre part of the village it acts as a hub of serval activities. Designing this this space will helps to enhances the character of the space.

Religious distribution

As per 2011 census, the majority population in valivlam.

Hindu 90.35%

Muslim 8.01%

Christian 1.56%

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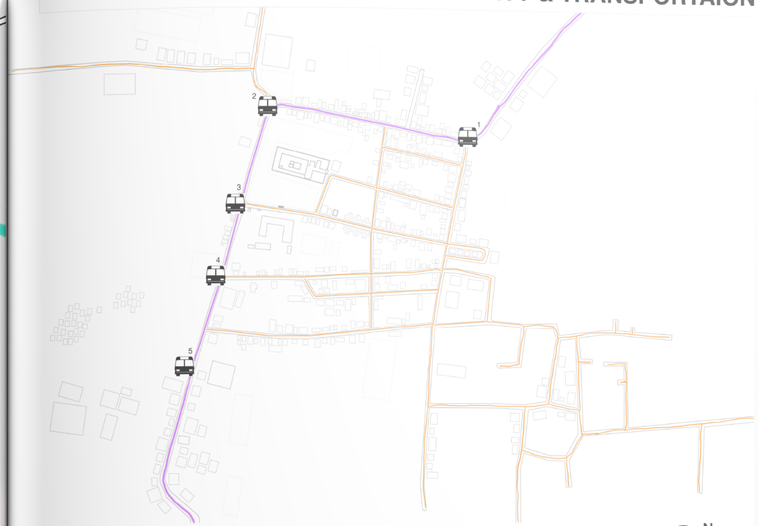
MAJOR CONNECTIVITY & TRANSPORTAION



High frequency road | low frequency road | Bus stop

SCALE 1:3000

N

Fig.1

Fig.2

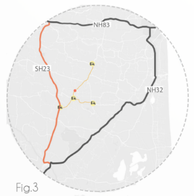


Fig.3

NH83

NH32

SH23

Valivalam — 128 km, 3hr 34min → Trichhy International Airport

Fig.1 show location and distance of Trichy International Airport from valivalam.

Fig.2 show location and distance of Railway staion accessible from valivalam.

Fig.3 National highway , state highway and distance of auto stand accessible from valivalam.

Railway staion

- 18.4 km, 32min → Thiruvarur
- 16.1 km, 29min → Thiruthuraipoondi
- 27.9 km, 45min → Nagapattinam
- 33.2 km, 1 hr → Mannargudi
- 46.8 km, 1hr 13min → Vedaranyam

Auto stand

- 1.6 km → Kolapadu
- 6.8 km → Satiyakudi
- 5.1 km → Katchanum
- 5.4 km → Thirukkuvalai

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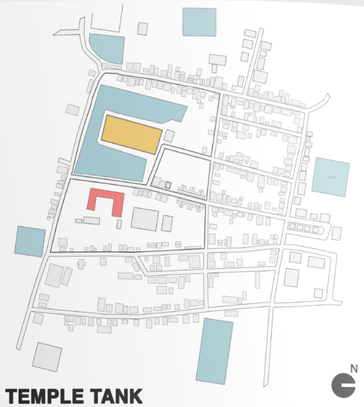
MORPHOLOGY

MANAITHUNAINADHAR TEMPLE

Manaithunainadhar temple has always known to be a religious spot. This site starting from the centre main centre temple tank , a layer of heritage temple around it and through the years,layers of comtemporary housing structure developing around it with a number of communities

Temple has celebrated surasamgram festivals in grand gestures over the years. The space that stands today in an expression of the social andphysical relationship between the people, and its usage.



SCHOOL

Valivalam a tiny village with agricultural farmers had a kind hearted personality in the person of K.M.Desikar. He want to cause of education ofhis village children. Hence on **10th July 1959**,he founded the Valivalam Desikar High School.

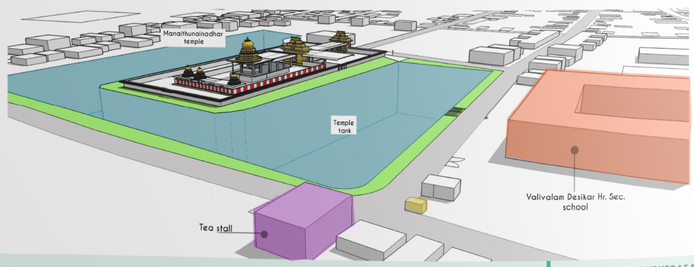
The school was started on the Northern side of the perumal temple in thethatched shed which was L in shape.

TEMPLE TANK

Surya narayanan is said to have workshipped the temple and the wheels of his chariot is said to have made deep impressions around the templewhile worshipping the lord and those impressionson the ground have become the moat around the temple.

On the three sides of the temple there are moats and adjustant to that there are gardens. The templeis located facing to the east with four rajagopurams, three corridors and a madavilangam.

A group of residents came together to revive the 1000-year-old manaithunainadhar temple tank. The importance of the temple tank in water recharge and also of the involvement of citizens. The area around the 1000-year-old has been re-imagined



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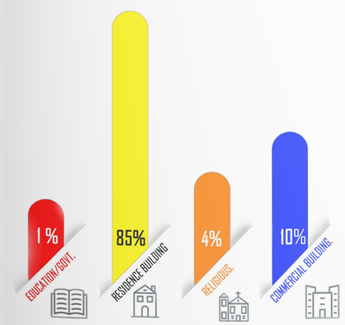
LANDUSE MAP



A landuse map is a map showing the type and internities of different land use in a particular area. It helps in knowing which area of the village is used for what purpose it identifies parts of the village and the activities that happen there.

LEGENDS:

- Education / GOVT. Buildings
- Residential
- Religious building
- Commerical
- Crops field

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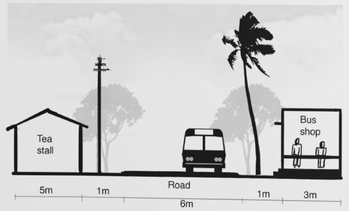
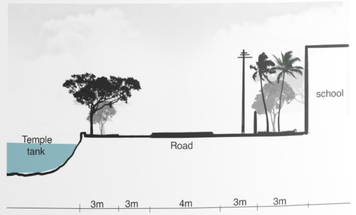
ROAD NEWORK

Primary road Secondary road Major access Minor access



Road width is about 6m. Which is 2 lane road. Teastall is present towards left side of katchanam - kelivelur road . Bus shop and school are present towards right of main road.



Road width is about 4m. mad path - 3m , green space - 3m Temple tank is present toward left side of road and school building is present towards right side of road.

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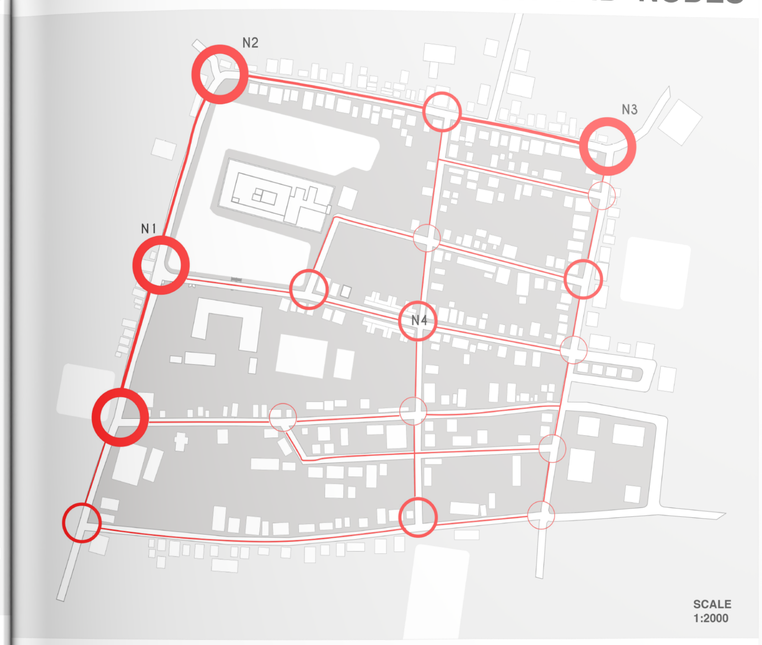
CONNECTION AND NODES



Legend

major nodes minor nodes other nodes connection N

NODE 1

Node 1 was located in south side. This is the joining of two way road and connect to local street.Teastall temple, and busshop were located in this junction.Road width is about 6m.Which is 2lane road.

NODE 2

Node 2 was located in westside of my proposed area.The commercial shop are surrounded in this node, so people are moved vvtowards this junction.

NODE 3

Node 3 is located in north side of proposed area. The commercial shop are surrounded in this node. Bus shop found along the road.

NODE 4

Node 4 was located in south of proposed area. Road width is about 5m and another sand path width is about 3 m, green space width is about 3m..

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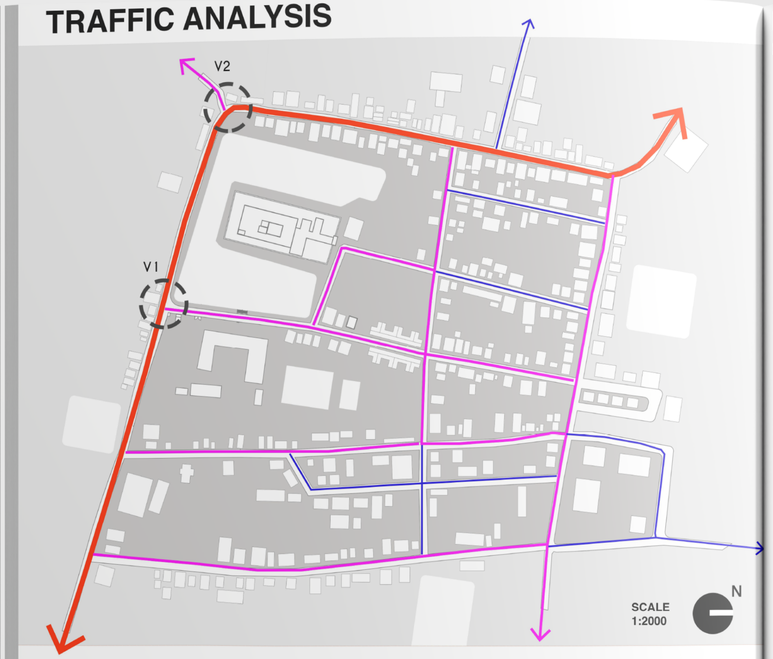
TRAFFIC ANALYSIS



High frequency road — Medium frequency road — low frequency road

Two wheeler	-	30%
Bicycle	-	24%
Auto	-	5%
Four wheeler	-	12%
Bus	-	10%

MARKET JUNCTION
(VIEW 01)

TEASTALL & SCHOOL JUNCTION
(VIEW 02)

ANALYSIS

Morning time - 8.00am to 10.00am

5% 8% 20% 9%

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LITERATURE STUDY (streetscape design)

Bui Thi Xuan streets scape design

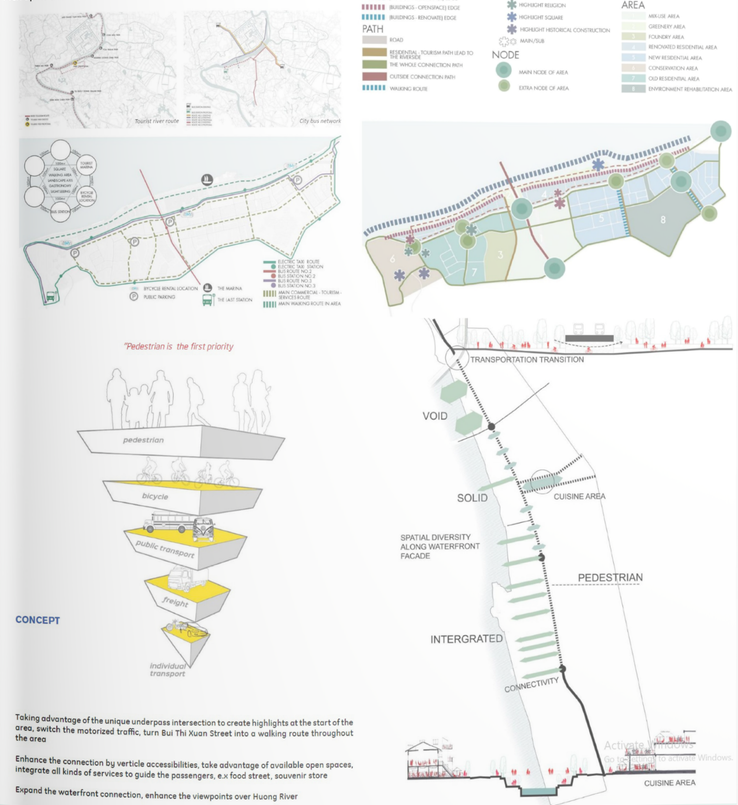
Overall, Phuong Duc area has the many popular landmark, which high light historic area religion building and foundry village are the primary place to make the starting and end point. Furthermore, in order to make the purpose of tourism development, these highlight will be connected by tourism and services and walking tour routes. In addition, the nodes of area are located in the crossroad and T-junction, which creates green space, intersection space to connect with highlight commercial, religion and education Creating the main landscape linear connect with functional and important featured areas. Especially- the main walking routes by times go through all the significant space as well as closely link with quay and port system.

Organize the welcome point of landscape and pedestrian axis. The featured areas exploit from the- available potential of the area: traditional casting village, Huong riverside, heritage site. It is the distinct space integrating with attractive activities Edge feature: create the outline of characteristic buildings along rivers in harmony with regional-

overview

Establish and decorate open space

Pick up at the important traffic node is the intersection of relevant routes



CONCEPT

Taking advantage of the unique underpass intersection to create highlights at the start of the area, switch the motorized traffic, turn Bui Thi Xuan Street into a walking route throughout the area

Enhance the connection by verticle accessibilities, take advantage of available open spaces, integrate all kinds of services to guide the passengers, e.x food street, souvenir store

Expand the waterfront connection, enhance the viewpoints over Huong River

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LITERATURE STUDY (streetscape design)

street and block system

THE HOMESTAY CLUSTER

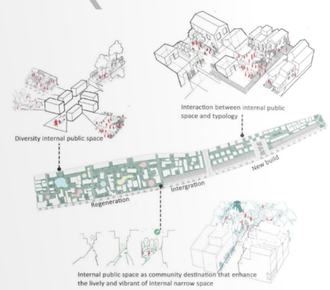
MEANING

Renovated current residential, due to being near the waterfront, large plots of land have yet to be taken advantage of, the design is aiming to integrate homestay services to change the landscape and increase the value of the local economy

DESIGN PRINCIPLE

Organize by focusing models, houses around with a central core in the middle which is an open space to increase community communication in the area

Open additional accesses from the main walk street and the river banks, increasing the connectivity and diversifying types of walking, sightseeing



THE CUISINE STREET

MEANING

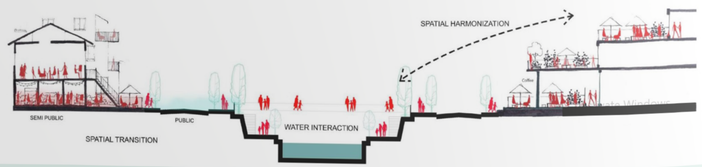
The area is a sub walking route, which enhances the walkability of the site. The area is designed as a cuisine street, where contributes to improve and advertise Hue's characterized food and increase local economic

DESIGN PRINCIPLE

Create multiple choices for walking (in the works, pavements, roadways, by the streams, ...), enhance the walk and the accessibility to the area

Use the form of leading paving, increase attractiveness for the area, take advantage of the water improvement area's landscapes, integrate landscaping and walkways to encourage tourists and residents to walk

The area of shop houses use a column grids, sharing the space of the first floor to walk, use the form of quadrangle roofs as Hue's traditional kiosk module



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DESIGN THEORY

principle of design	Relevant image	About the factor	study area inference	issue in the study area	implementation of principles
Balanced activities		Activities found along the road should be balanced.	Temple and school are located at the heart of the village .The zone is considred as the happening place.	The junction are active through out the day.	Temple tank edge with vendors will make the active space.
		Vehicular movement sholud be balanced to avoid traffic congestion.	People of the village use this zone as their leisure space during morning and evening hours.	This leads to less social interaction among the users.	proper outdoor furniture can be placed at regular intervals for people to gather.
Visually attractive		Visual attractionis the main factor that attracts the users.	School students also use this space after the school hours.	Visually attractive element are very less. No proper street furniture is found along the road.	Innovative seating places with landscape around the tmple tank and junction .
		This enhances the social interaction and makes it an active space.	There is no proper parapet wall around the temple pond. Thus this leads to many accidents.	This reduces the social interaction between the people.	

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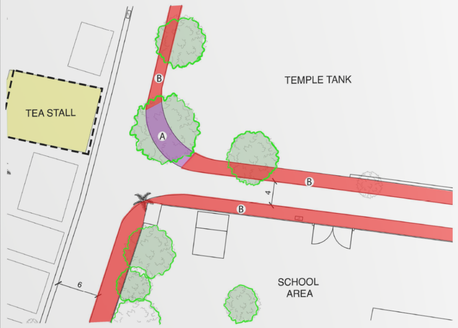
DESIGN INTERVENTION



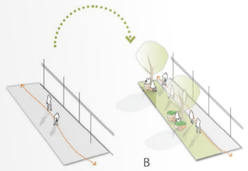
Use the form of leading paving, increase attractiveness for the areas , take advantage of the (temple tank) water improvement area's landscape , integrate landscaping and walkways to encourage the people.

A

Teashops escape from these windows of research easily and this slippery nature of the teashops are because of its multi potential usage.The activity in an incidental activity generator is gullible with time.

B

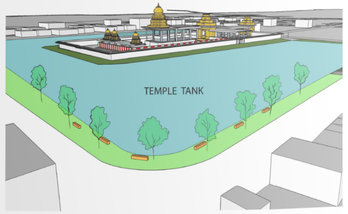
The design intervention work with the central zone aim to retain the heritage language of the wide streets, whilist improving pedestrian facilities through footpath treatment. Footpath widening and street trees are proposed to the south and east of these study area.



B

Upgrading of withers street would focus on improving the visual amenity, whilist manitaining the heritage quality Providing street trees to the east and south side of the road , in order to provide shadeand visual amenity.

Upgrading footpaths to highlight heritage items, using a suitable matrials and element. Creation of rest areas including small plazas with low planting and clear trees , feature paving and seating. Reuction of speed limit and improved line marking to indicate 40 km\h zone.



Rest areas along withers street would provide shade and visual amenity , as well as improving accessibility and comfort for users. Feature paving to indicate a change in zone. Street furniture with a mix of benches and seats with back and arm rest to cater for everyone.How planting and clear trees to provide shade.

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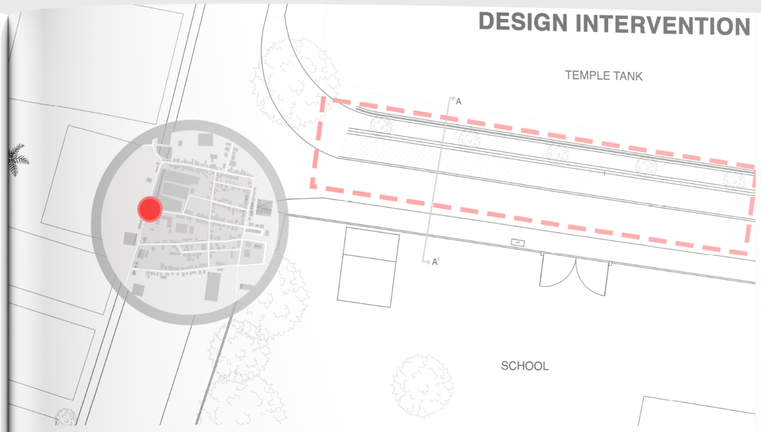
DESIGN INTERVENTION



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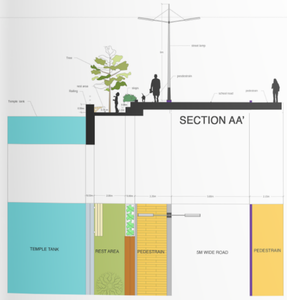

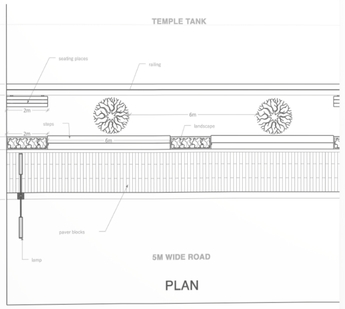

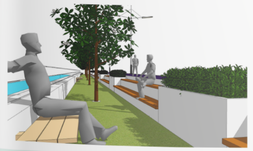

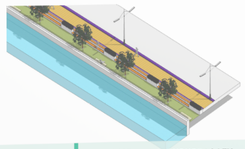

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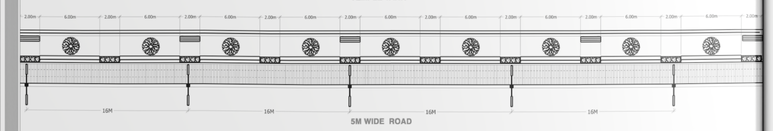
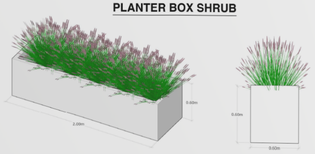
Rest areas along withers street would provide shade and visual amenity , as well as improving accessibility and comfort for users Feature paving to indicate a change in zone. Street furniture with a mix of benches and seats with back and arm rest to cater for everyone.How planting and clear trees to provide shade.

TEMPLE TANK



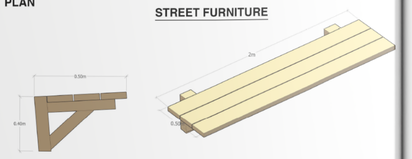
PLAN

PLANTER BOX SHRUB



Shrubs is a wood of semi - woody pernnial plant with little or trunk and grow up tp a height frpm 50 cm. To enhance the beauty of surrounding and to provide fragrance in the design space.

STREET FURNITURE



Street furniture has many forms and functions.The purpose of street furniture was to sit and rest and wait for surrounding to happen such as the bus to arrive.This bench here is an design of the simplest form of street furniture , and the bench is perfectly integrated into the landscape.

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THANK YOU :)