



ARCHITECTURE PORTFOLIO

SHANA K



SHANA
Architect

An aspiring architect and designer who is a keen observer with an eye for good art, knowledge, design. An enthusiastic learner with a deep passion for architecture. I believe in learning from people coming from different walks of life hence enjoy working in a team and managing one.

Currently , I am searching for an opportunity to work and assist with your organization. I will be glad for every opportunity to learn and motivate me to become a good architect.

I hope you enjoy going through my works as much as i did while putting it together.

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Achievements

Hosted ENIGMA Zonal Nasa Convention 2018 - Coordinator

Hosted Malappuram GALA 2019 - coordinator

Attended Tensile Structure Workshop DG College of Architecture Vagamon, 2017

Attended Zonal Nasa Convention SRM, Chennai

Special Mention in Muhammed Saheer Landscape Trophy SJB Institute of Technology, Bangalore, 2019

Shortlisted Annual NASA Design Competition 60th ans 61st Year 2017 - 2018

Hosted DESIGNCON 2019 GHSS Karaparamba - coordinator

Education

Eranad Knowledge City college of architecture Cherukulam, Manjeri, Kerala, 676122

Bachelor of Architecture University of Calicut (2016 - 2021)

Peeves Model school, Nilambur Higher secondary Education

Skills

Architectural Visualisation
Sketching
Design Development
Research and Development
Organising Projects and Events
Photographs
Presentation
Physical Model Making
Videography
Leadership Quality
Teamwork

Software skills

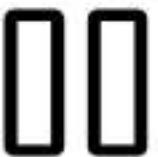
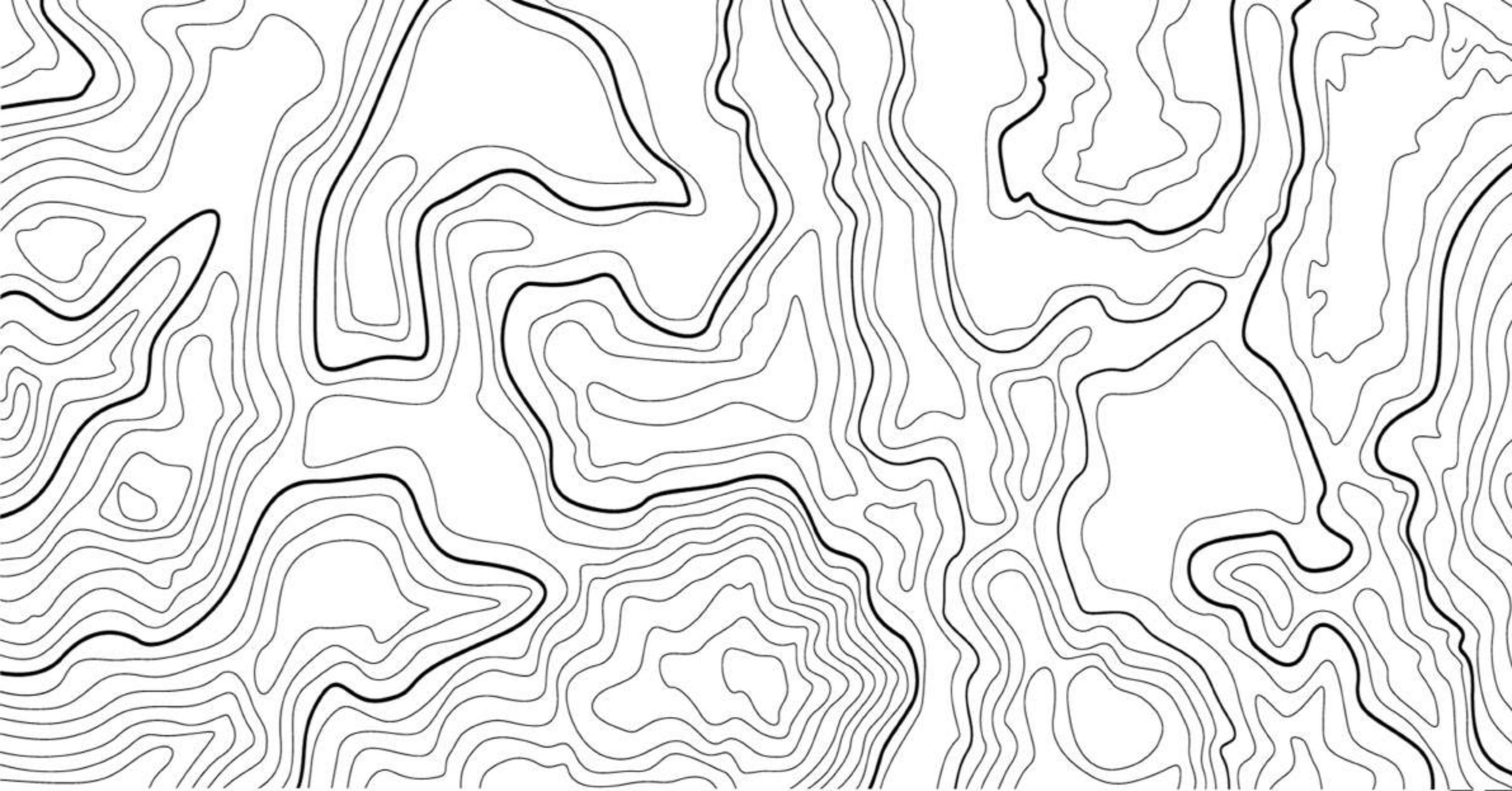
Autodesk Autocad	•••••
Sketchup pro	•••••
Revit Architecture	•
Lumion	•••••
V-Ray	••
Adobe Photoshop	•••••
Adobe illustrator	••
Ms Word	•••••
Ms Excel	•••••
Ms Powerpoint	•••••

Languages

English	•••••
Malayalam	•••••
Tamil	•••

Interests

- Photography
- Videography
- Travel
- Music
- Movies



CONTENTS



AYURVEDA MEDICAL COLLEGE
CALICUT, KERALA



CLUBHOUSE
MINIOOTY, KERALA



MOBILITY HUB
CALICUT, KERALA



RESIDENCE
CALICUT, KERALA



MIDLAND COMMERCIAL
MANJERI, CALICUT



PONNANI HARBOUR
REDEVELOPMENT



MISCELLANEOUS



AYURVEDA MEDICAL COLLEGE, CALICUT

PROJECT

Architectural Thesis project

LOCATION

Pantheerankavu, Calicut.

ABOUT

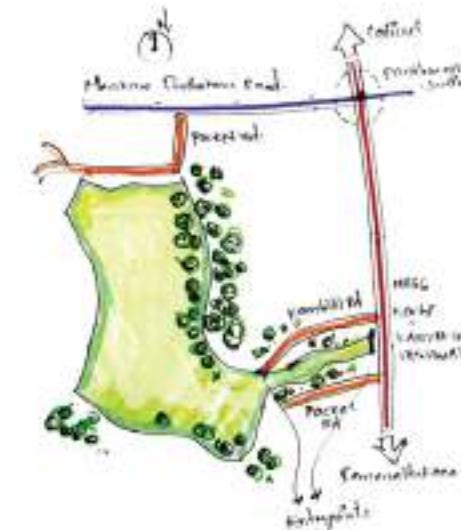
Ayurveda is a system of medicine evolved in India by around 600 BC. It eliminates all toxic imbalances from the body and helps to resistance and good health. It is a holistic approach that is the mind and the body is viewed as a whole. Kerala is the main centre for Ayurveda. Kerala has gained international attention for medical tourism and is becoming a popular international tourist destination. So, research and development in this field is very essential.

An Ayurveda Medical College is proposed in Pantheerankavu, Calicut, with a site area of 19 acres. The goal is to design an ayurvedic medical college which will boost the factors like economy, tourism, providing better and natural health care facilities and deliver highly skilled practitioners to the society.



Site is located at Pantheeramkavu, Calicut. Pantheeramkavu is a small town near Kozhikode city in India. It is located 9km away from Kozhikode city.

The main road of the site is National Highway NH66. There are two entry points to the site. The main entry to the site is from east side.

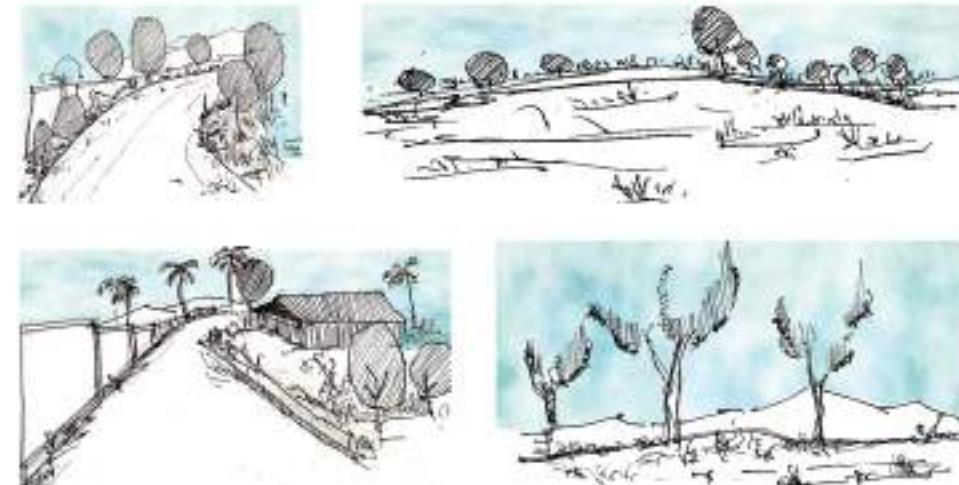


National Highway 66 connects Kozhikode to Mumbai via Mangalore, Udupi and Goa to the north and Kochi and Kanyakumari near Thiruvananthapuram to the south along the west coast of India. This highway connects the city with the other important towns like, Kasaragod, Kanhangad, Kannur,



Existing site views

View of the site from east side entry. This is narrow strip of land is a perfect buffer from the outside noise and air pollution, giving a perfect ambience for a healing environment.



There is a shed present in the north side of the site. It was used by workers when the site is used for latrine extraction before.



DESIGN NARRATIVE & CONCEPT DEVELOPMENT

Healing Through Positive Distractions



Nature as the distraction



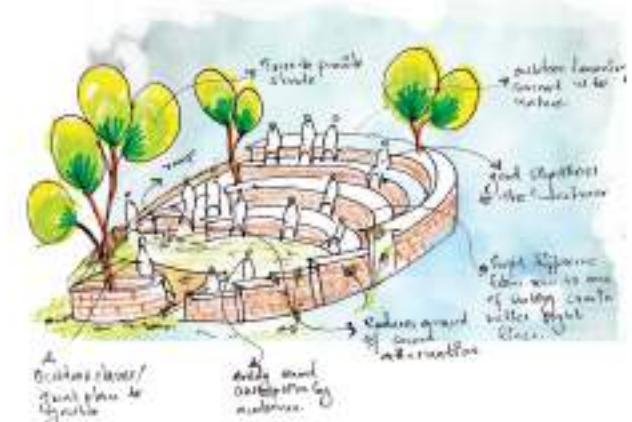
Healing garden

Accessibility



Visually accessible

The most distinctive visual form of Kerala architecture is the long, steep sloping roof built to protect the house's walls and to withstand the heavy monsoon, normally laid with tiles or thatched labyrinth of palm leaves, supported on a roof frame made of hard wood and timber.



Ayurveda is a traditional Indian system of medicine. It aims to preserve health and wellness by keeping the mind, body, and spirit in balance and preventing disease rather than treating it. To do so, it employs a holistic approach that combines diet, exercise, and lifestyle changes.

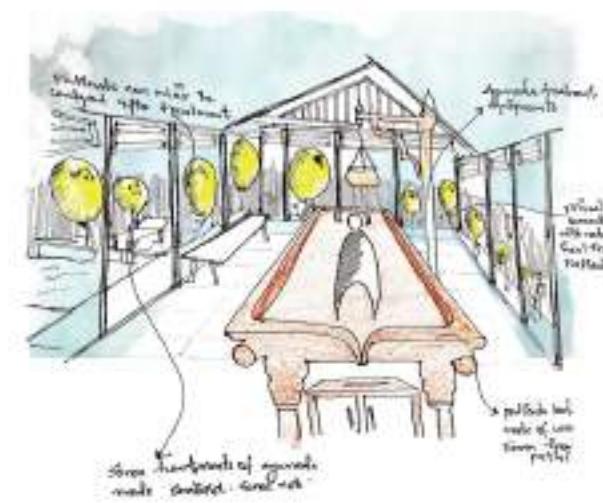
Eliminate environmental stressors, such as noise, lack of privacy, poor air quality and glare.

Connect patients to nature by providing outdoor views and other natural features, including interior gardens and water elements.

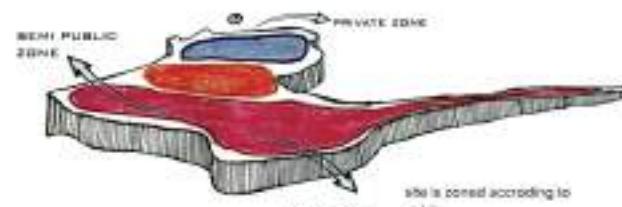
Enhance patient's feeling of being in control by offering options and choices – these may include privacy versus socialization, lighting level, type of music and quiet versus active waiting areas.

Encourage opportunities for social support, such as providing appropriate seating in patient rooms, privacy for small groups and overnight accommodations in patient rooms.

Provide positive distractions, such as interactive art, fireplaces, aquariums, internet connection, music, or soothing video or light installations suited to the healthcare setting. Inspire feelings of peace, hope, reflection and spiritual connection.

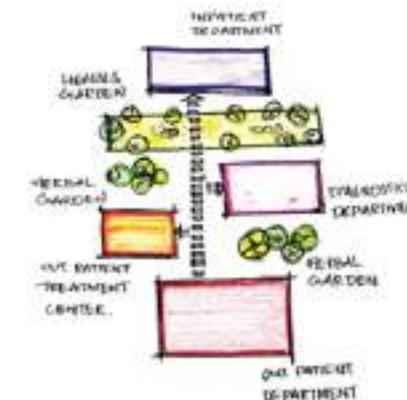


Site Zoning

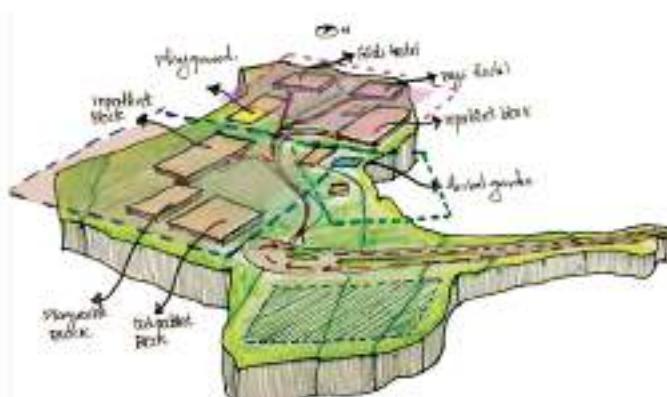
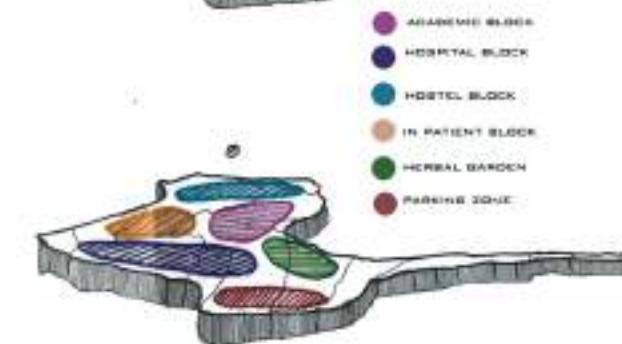
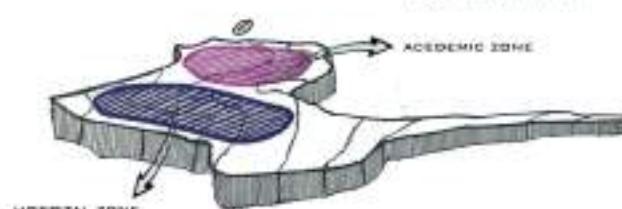


- site is zoned according to
 - public
 - semi public
 - private

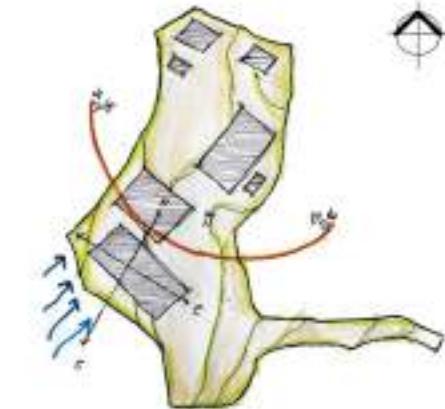
the most-using block should be placed in a very accessible way privacy



- The whole site was initially zoned into hospital and academic zones. priority is given to the patients so the hospital zone comes first and then the academic zone.
 - The hospital zone is further divided into out patient department (OP) and In patient department (IP) among which the out patient is given first so that patients can access leave the facility easily. The in patient department is pushed further inside for privacy and calm environment.



- The academic zone is further divided into institution building and hostel, among which the hostel blocks are pushed towards the end of the site for privacy.
 - The academic was planned keeping the idea of having open classroom, where the class room opens into a herbal garden where students can study about plants also allowing good amount of light and ventilation.



Considering the sun's position, orientation of the settlements pattern should be placed preferably on southern or northern slopes. The best orientation is longer sides facing north and south directions to protect from the solar radiations. However the east and west sides should be shaded by shading devices. Building should be oriented along the wind direction with the longer axis intercepting the predominant wind directions. Cross-ventilation acts more effective in interior spaces by enlarging the openings of the internal partitions and by providing free passage, courtyards, veranda, etc. Considering both sun and wind conditions at the proposed site.



In order to take the advantage of air circulation, an open settlement pattern is preferred, where buildings are separated with large free spaces. This pattern enhances the air-flow thus facilitating proper ventilation.





Master Plan



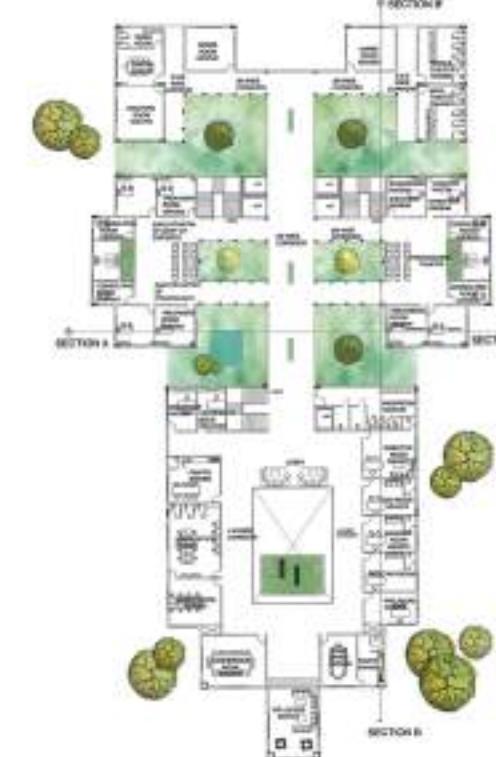
Design Strategies

Indoor water features can add visual stimulation as well health benefits to your interior landscapes. People will benefit by being more comfortable in the moist air.

Allows for building cooling and ventilation improves the air quality.

In order to take the advantage of air circulation, an open settlement pattern is preferred, where buildings are separated with large free spaces. This pattern enhances the airflow thus facilitating proper ventilation.

Out Patient Department and Admin Block



Ground floor plan

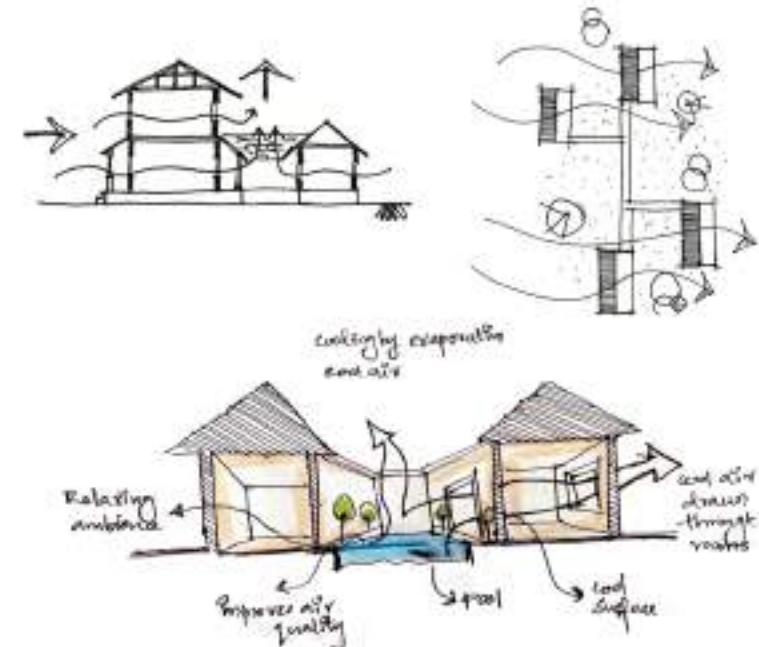
First floor plan

Section A



East Elevation

Section B

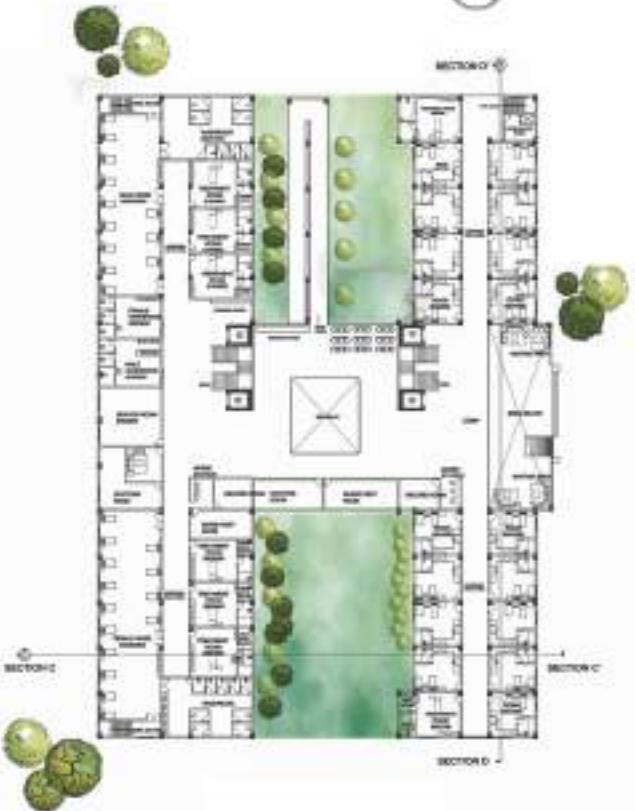




In Patient Department Block



Ground floor plan



First floor plan



Section D

Section C



East Elevation



South Elevation



Ayurveda Campus Block



Ground floor plan



First floor plan



Section E



Section F



West Elevation



South Elevation



The site contains a small scale pond in the east side of the site, so this existing feature should be conserved by making it as a traditional kulam and kulipura for the recreational purpose by giving a relaxing and view point to keep attractive. This provides a calm and beautiful environment.



Students can use herbal garden for studying about the ayurvedic herbal/herbal garden contains hundred varieties of medicinal plants. The objective of the herbal garden is to create awareness of conservation and traditional uses of herbs and medicinal plants to visitors, and to also be a place where students, farmers, and others can learn how to identify and conserve these important plants.

Site area - 16 acres
The site consist of 1 meter level contours and design is done by maintaining the contours or by cut and fill method. All the main rooms are arranged horizontal and vertical plane to create a design that takes advantage of views.



02

CLUBHOUSE

PROJECT

Major project in s5

LOCATION

Mini Ooty, Arimbra Hills, Kondotty

ABOUT

Clubhouse is a privately owned club, often with a membership quota and admittance by invitation or sponsorship, that generally offers both a variety of recreational sports and facilities for dining and entertaining. Typical athletic offerings are golf, tennis, and swimming. The design involve an innovative luxurious and professional space with complementary refreshments and comfortable accomadation facilities for members and guests. Clubhouse provide gymnasium, spa, library, gamerooms, lockrooms functional hall, meeting spaces, restuarents and bar.



Site Plan Site area - 16 acres



The site consists of 1 meter level contours and design is done by maintaining the contours or by cut and fill method. All the main rooms are arranged horizontal and vertical plane to create a design that takes advantage of views.



Concept

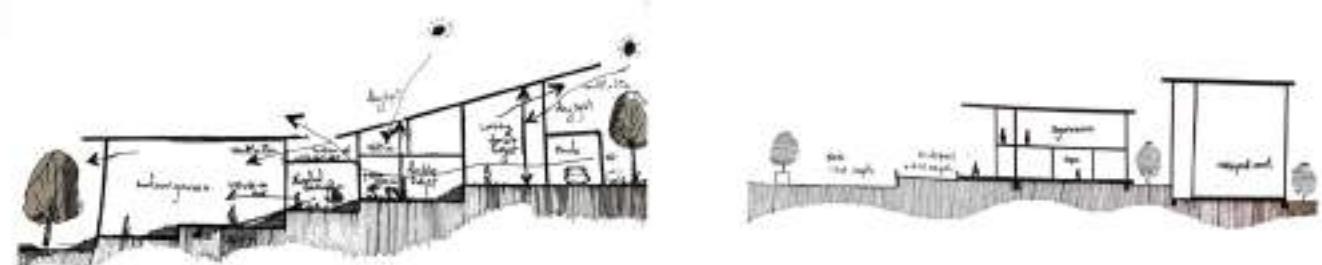
Biophilic Architecture : connecting people to nature incorporate things like natural light, views, natural materials etc..



First floor plan



Ground floor plan

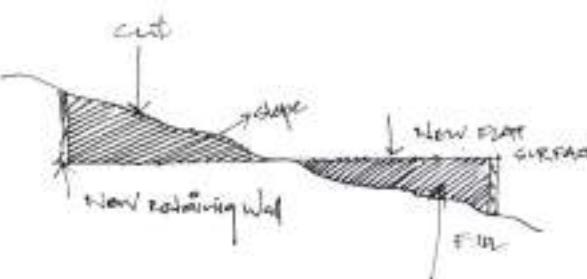


Schematic sections showing the levels



First floor plan

Block two consist of spa, Gymnasium, Yoga centre and game room. Game room is designed for a variety of games including billiards, table tennis, chess, volleyball, basket ball, squash, kickboxing, badminton, swimming pool.



Method used for designing contour site



Ground floor plan



OB

MOBILITY HUB ,CALICUT

PROJECT

Architectural design project in s9

LOCATION

Malapparamba, Calicut, Kerala

ABOUT

A Transit Oriented development for Calicut. Calicut Mobility Hub is the solution for the existing transportation means by the redevelopment or reimagine the existing transportation. Aim is to design a transport and passenger friendly and convenient mobility hub, which creates a comfortable travelling experience for the public through linking different modes of transport like monorail, buses, auto taxis and bicycles that enables a safe and secure movement and accessibility.

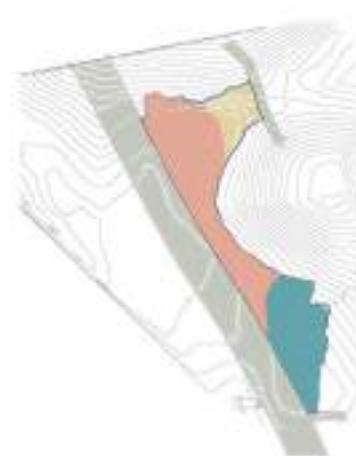


These are places which bring public together, shared and active travel modes with some public realm improvement and identifying sign. They deliver significant improvements for the environment, boost mental and physical health, and create places which everyone living nearby can be proud of. They present economic opportunities too, with many of these hubs attracting new shops and commercial ventures as more people flock to use them.



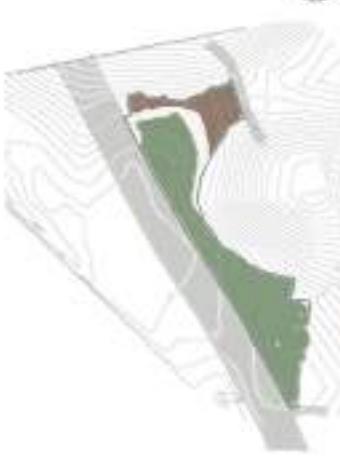
Road Network

- NH766
- NH66
- Cheverambalam road
- Cheverambalam Thondayad road



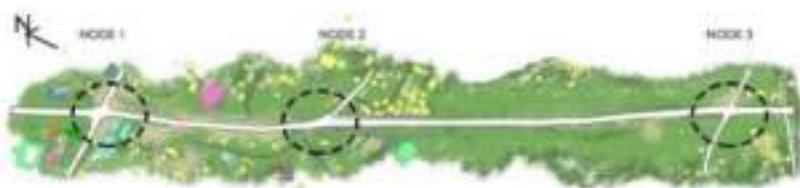
zoning

- Semi public
- Public
- Private



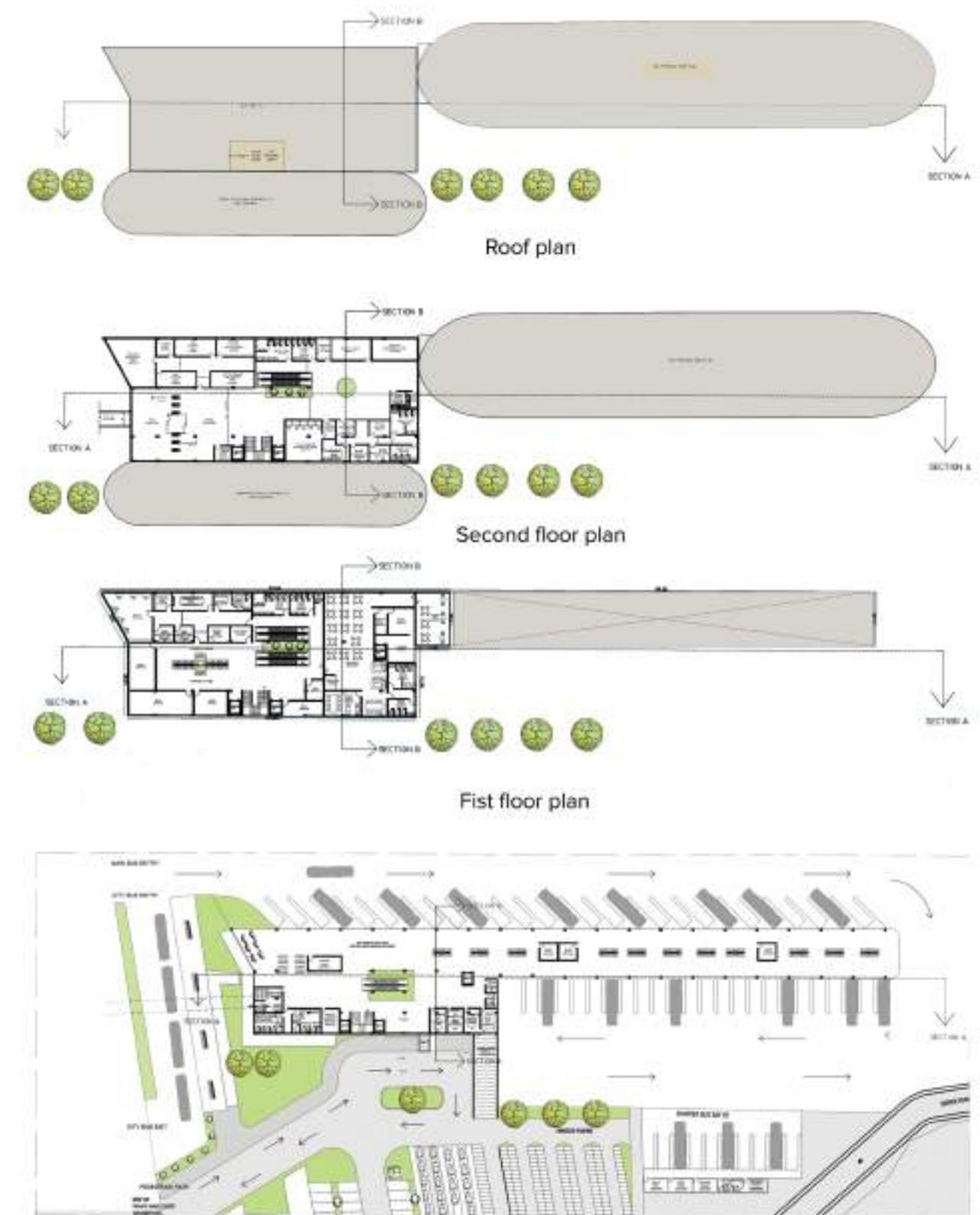
Site contour Detail

- Site above road level
- site below road level



- Node 1 - Malapparamba juction
- Node 2 - Paacahakil juction
- Node 3 - Nh66 Byepas Cheverambalam road juction

Bus terminal plan



Ground floor plan

Views



Back elevation

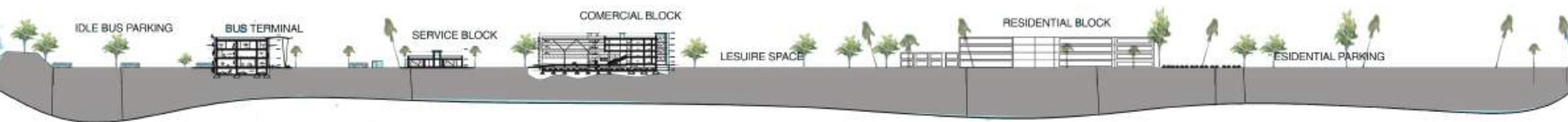


Front elevation



Section A

Site section B



04

RIVERINE RESIDENCE

PROJECT

Architectural Design in S3

LOCATION

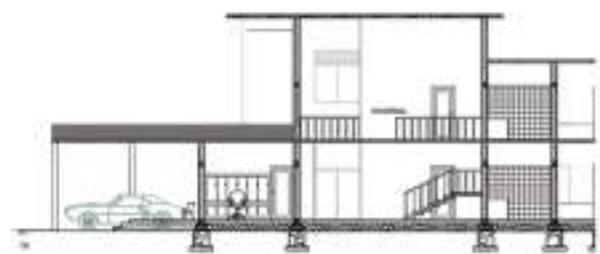
Purakkattiri, Calicut, Kerala



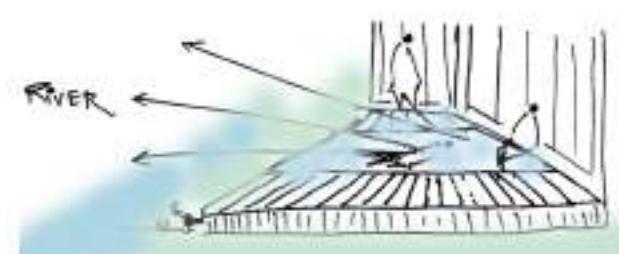
ABOUT

A residential project which is done for an advocate client. The plot area is 32 cent. This was done according to the requirements of an advocate and his family four members. center of attraction is the inner courtyard. Most of the spaces provide unceasing vista to the river without compromising maximum ventilation.

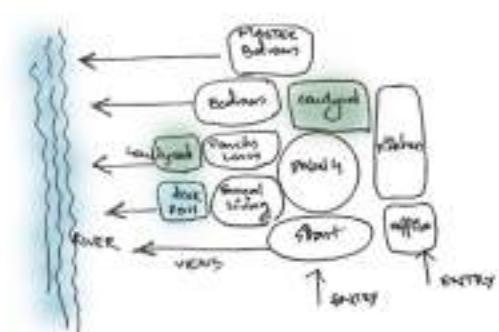
Site area = 30 cent
The main requirements of client were views to river ,open feel, double storied , maximum cross ventilation, family interaction spaces, Being a riverside plot, the design aims to maximise south facing views of the river by providing shades for cutting off glare from the southern sun.



Section



Outdoor swimming pool with river view



Plan showing bedrooms, living room, dining hall and balcony having river to the beautiful river



Ground floor plan

05



MIDLAND COMMERCIAL

PROJECT

Commercial project at Dac, 2020

LOCATION

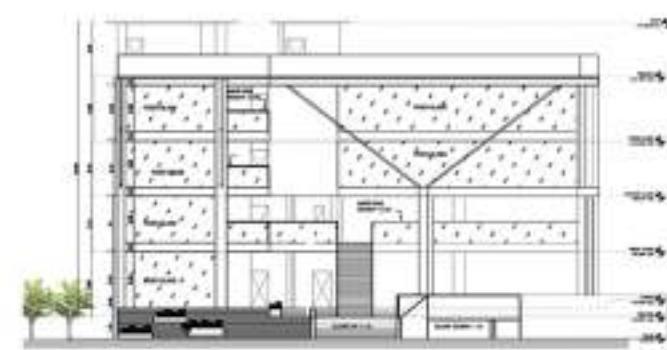
Manjeri, Malappuram, Kerala

ABOUT

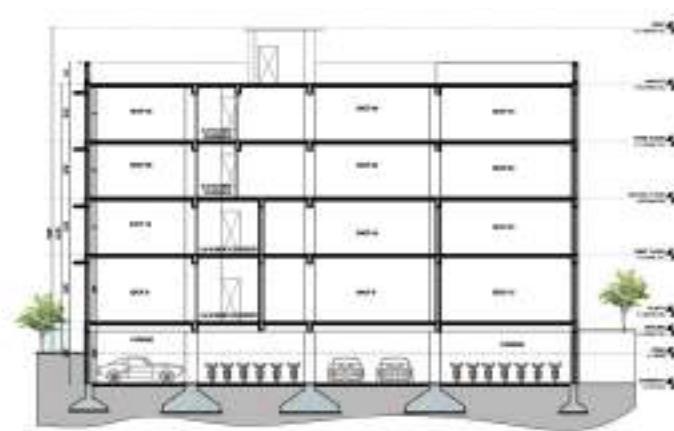
Midland Commercial project is the design project that I have dealt during my internship days. Midland Commercial is located at Thurakkal, Manjeri, Malappuram. It lies between Kairali Cinemas and Orthopedics center. It acts as the shopping center with huge potential. It includes a collection of independent retail shops, and have spacious underground parking areas.



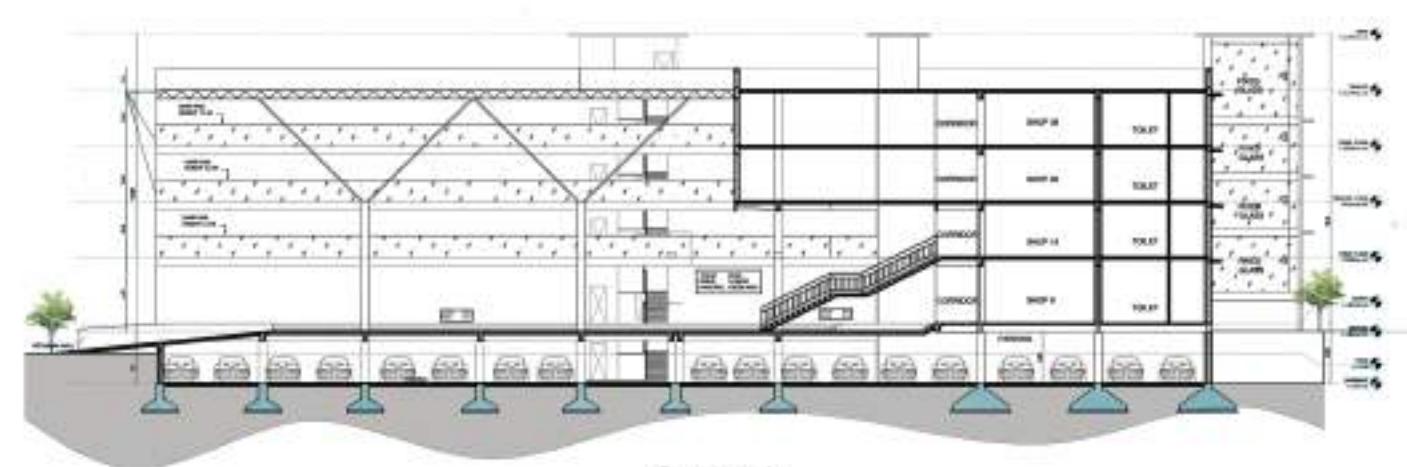
Side elevation



Front elevation



Section B



Section A



06

PONNANI HARBOUR REDEVELOPMENT

PROJECT

Muhammed Saheer Landscape Trophy Competition
Project 2019

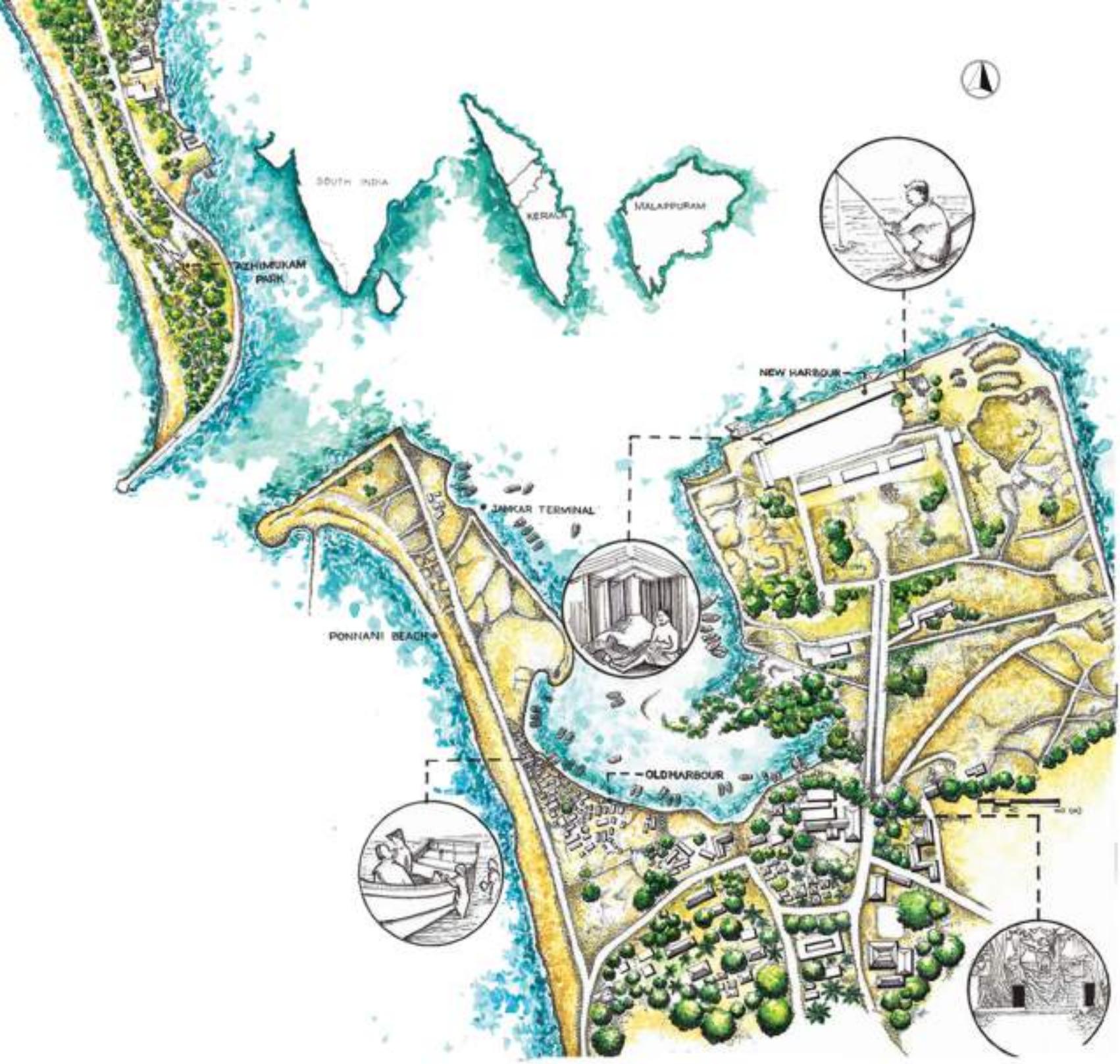
LOCATION

Ponnani, Malappuram

ABOUT

Ponnani, once known as the "Little Mecca of Malabar". It is situated at the estuary of Bharatappuzha (River Ponnani), on its southern bank, and is bounded by the Arabian Sea on the west and a series of brackish lagoons in the south. The new harbour made in Ponnani, Kerala after the old became oversaturated. But the new one never met the requirements. It wasn't built as they expected.

"Ponnani used to be the heartbeat of Malabar. Trade exports and fisheries flourished through the sea harbour and old townways. She was as famous as Mumbai and Bangalore as of today as Ponnani had such importance. Sea waves were the reason..."



Landscape in our perspective is the sculpting of a defined area organically with obligations that are primary rather than merely aestheticating without any functional purpose.

Concept

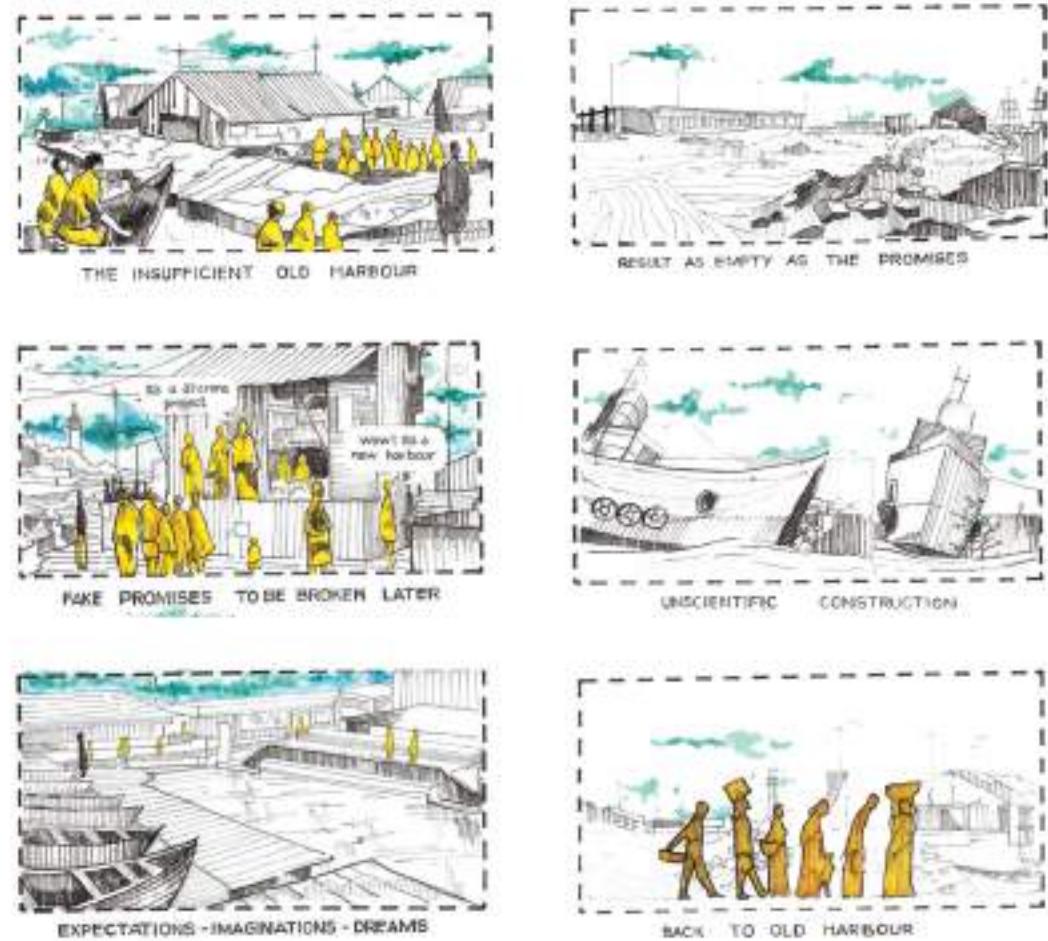
The concept is similar to balancing a mathematical equation. In the present scenario, the existing place which the sailors and fishermen are using has great value and importance even though there is nothing properly built or functioning. It has value since its organic origin. Later on the new harbour was built. The new proposal became an unnecessary space with zero value which is an excellent product of mindless development.

This organic built form and space is what our design brings balanced to. At present the old so called harbour is at a higher level of use and importance in comparison to the new harbour. Through this design we bring equilibrium among the two.

The blind planner has absent mindedly made dars with the wave currents and wind. This is the main annotations as this caused the built structure to rock. The boat causing damage to the already unscientifically constructed structure.

Odour is another sure outcome as there are not a single possible way for waste treatment in the present plan.

A better solution includes usage of snake plants in required locations as terminating fishing odour is impractical. Circulation is another blind spot in the current sketch.



The proposition is zoned into 3 phases in total

Phase 1 : comprises the areas of the harbour

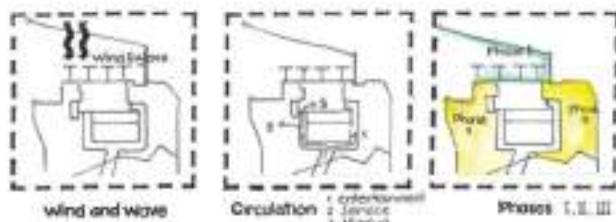
Phase 2 : Includes the harbour's service

Phase 3 : It is the development of an entertainment zone. This is the point where our design proposal uplifts the lower limitzone creating balance.

Phase 1 - The sign asends by eliminating the current framework new barrier of seawall are built from the eastern side is longer extent and a smaller seawall at the west end. This reduces the tidal waves, now compartments are constructed with an entry length of 20m. The smaller boats are the boats one's containing this bay as the goods are redistributed from the larger ships to smaller boats.

Phase 2 - Initially parking for heavy vehicles are considered. Now the design considers the value for waste treatment where the fish waste are treated and a better consideration for women as an initiative dry fish section for their empowerment.

Phase 3 - Ponnani has a diverse culture and being a coastline region.

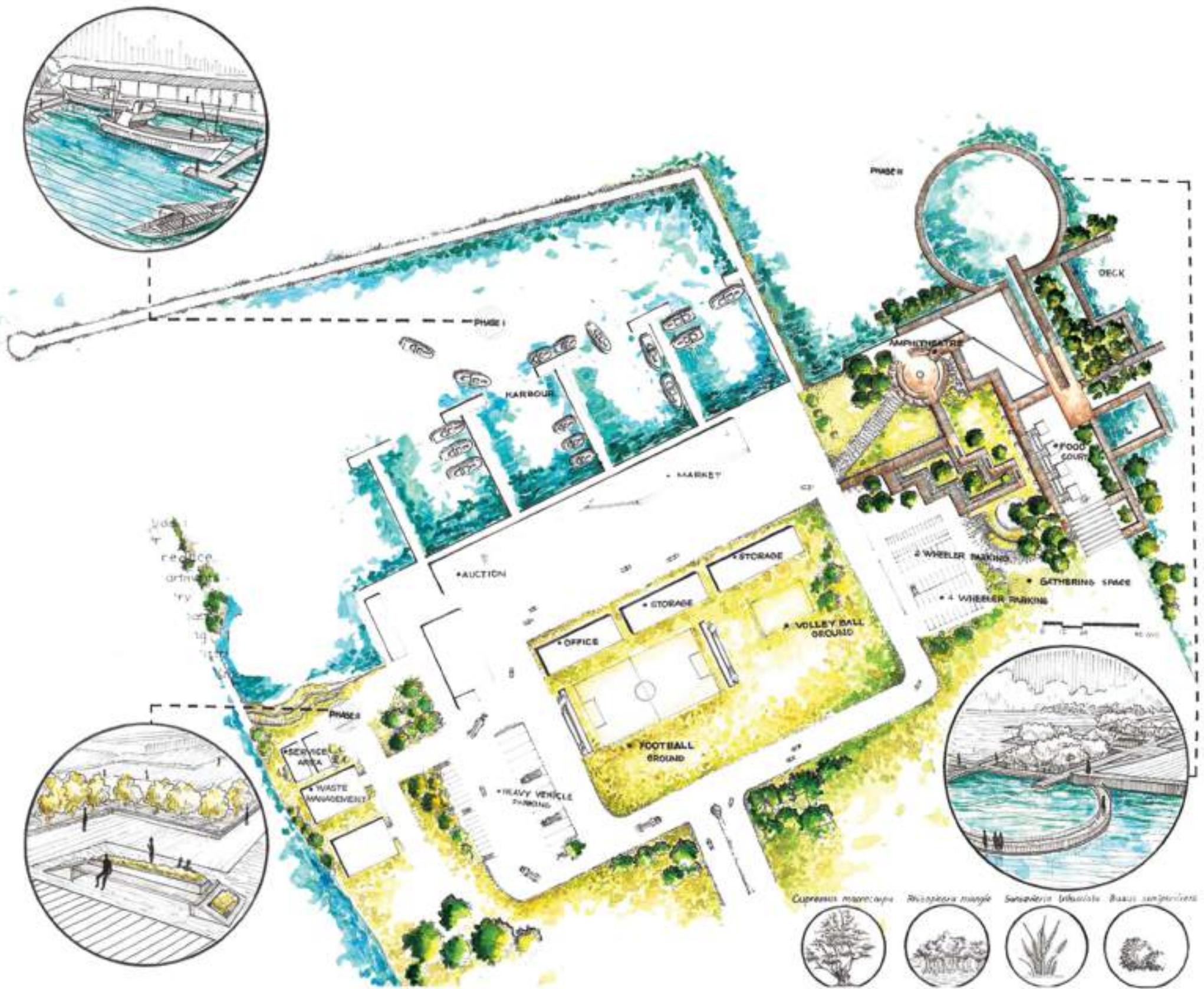


This evolves this obligatory considerations or a recreational zone. The zone is an opportunity for new jobs, food, a laze fishing corners and seawalks. Recovering the memories, old sailors and resident the site was talking about her stature of youth. The ponnani we saw today as ponnani had such importance seaways were the reason. The old seamen explained.

New harbour set out sails

Ponnani ,Govt has raised green flag at the ponnani harbour sailing have began at the newly constructed harbour. An amount of 37 crore is spent on the project. It includes storage space, boat parking bays and an unloading deck. The initiative taken by the govt makes convinience for the sailors and fisherman, the old harbour had no facilities or requirements.

Filling mass of expectations into the fisherman's minds ,the new harbour is a great bane and threat to its users. The constructions methods were unscientific meeting, big flaws even at the basic level in the harbour where boats are supposed to park crashed and trembled into the bay caused maintenance issue. The harbour is a quagmire and a nightmare to the fisherman. Only a shadow at the expected outcome was finally retrived. Promices made to the sailors were huge , they were empty eyed at the end of the day. An imbalance has incurred here. The project laid out by govt had huge experience of above crores, nothing went useful in the end. The same imbalance occurred for the time after time





07

MISCELLANEOUS

hosted events, working drawings, sketches and photographs

This is where all of my few interests and hobbies that are summed up and collectively represented here. It includes mainly sketches and photographs and most importantly the events that we conducted during our college days.



60ST ZONAL NASA CONVENTION 2018 ZONE 6

We hosted the 60 first zonal nasa convention 2018 under the title 'ENIGMA'. It was the largest zonal convention held with more than 2000 delegates. We had international architects key notes including architect Christ Precht and architect Francik D.K Ching. It was a whole new experience for the student architects around South India. The program had a great review and set a mark in the NASA fraternity.

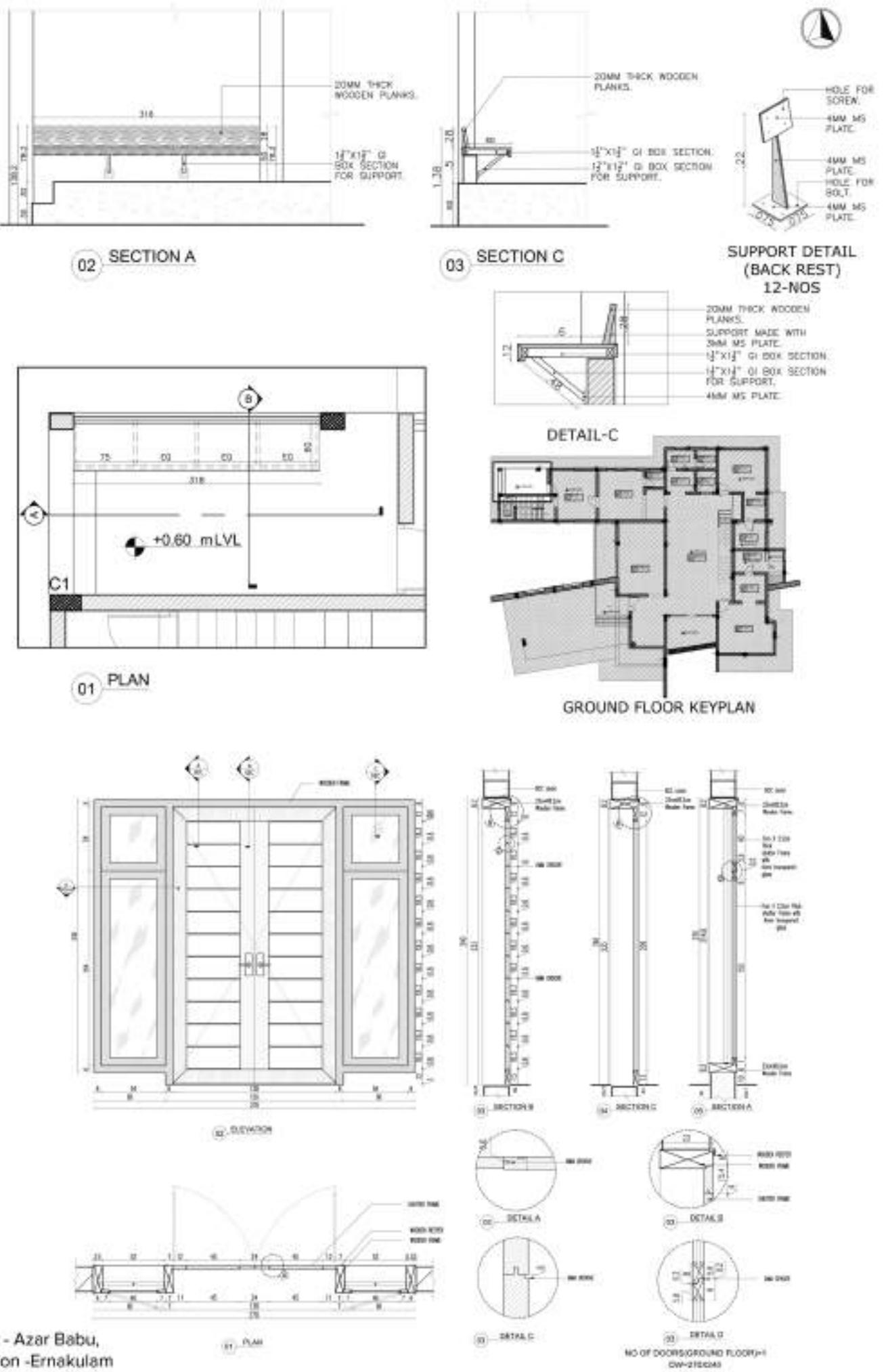


MALAPPURAM GALA

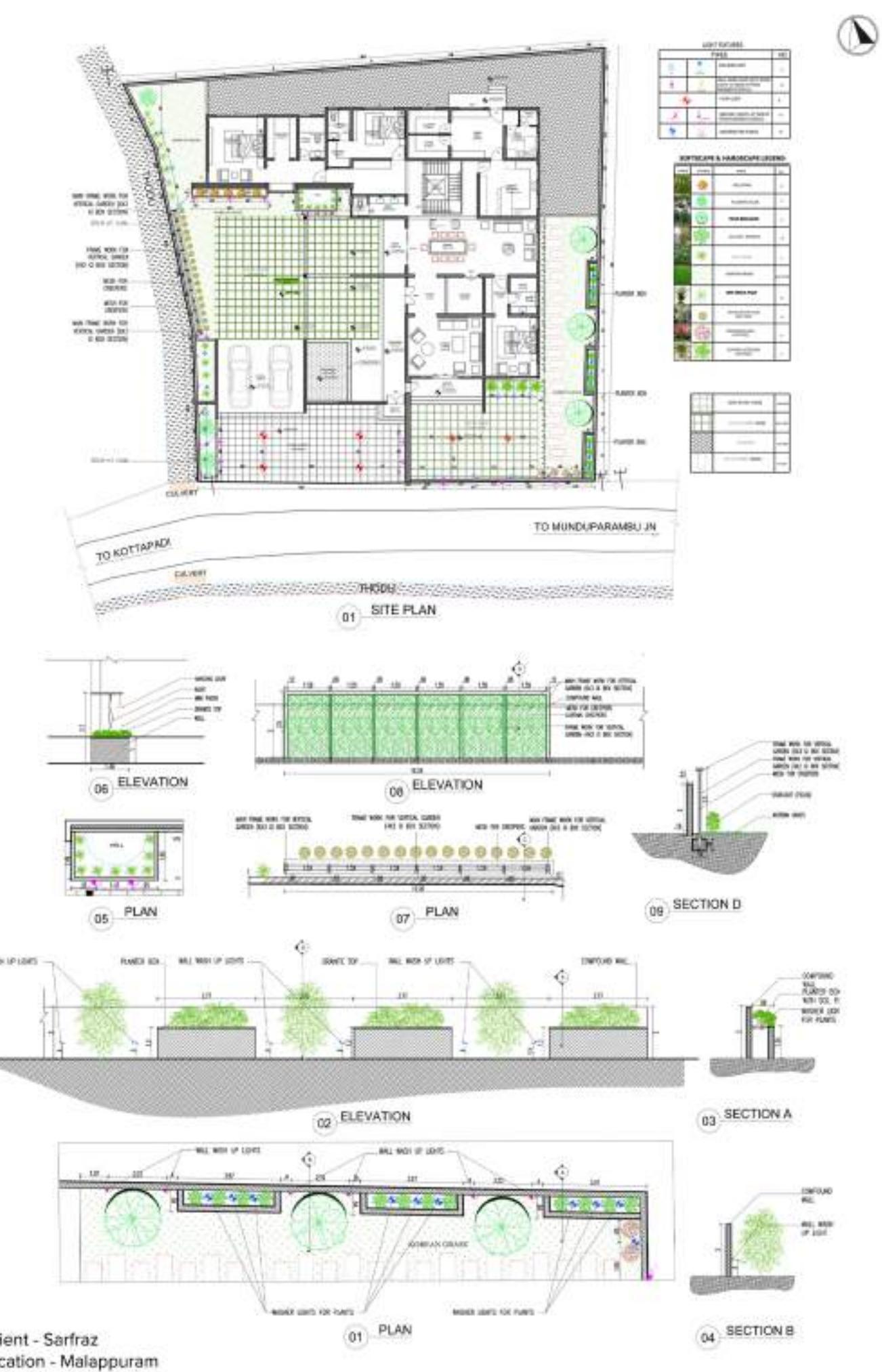
Malappuram Gala is a public event hosted by EKC college of Architecture, which is a festival of music, art, culture and architecture.

As part of the event we've done a magazine called Ruya, which is the end product of analysing public issue and suggesting solutions for the same. The event gained popularity and the visit of MLA made the event more attractive.





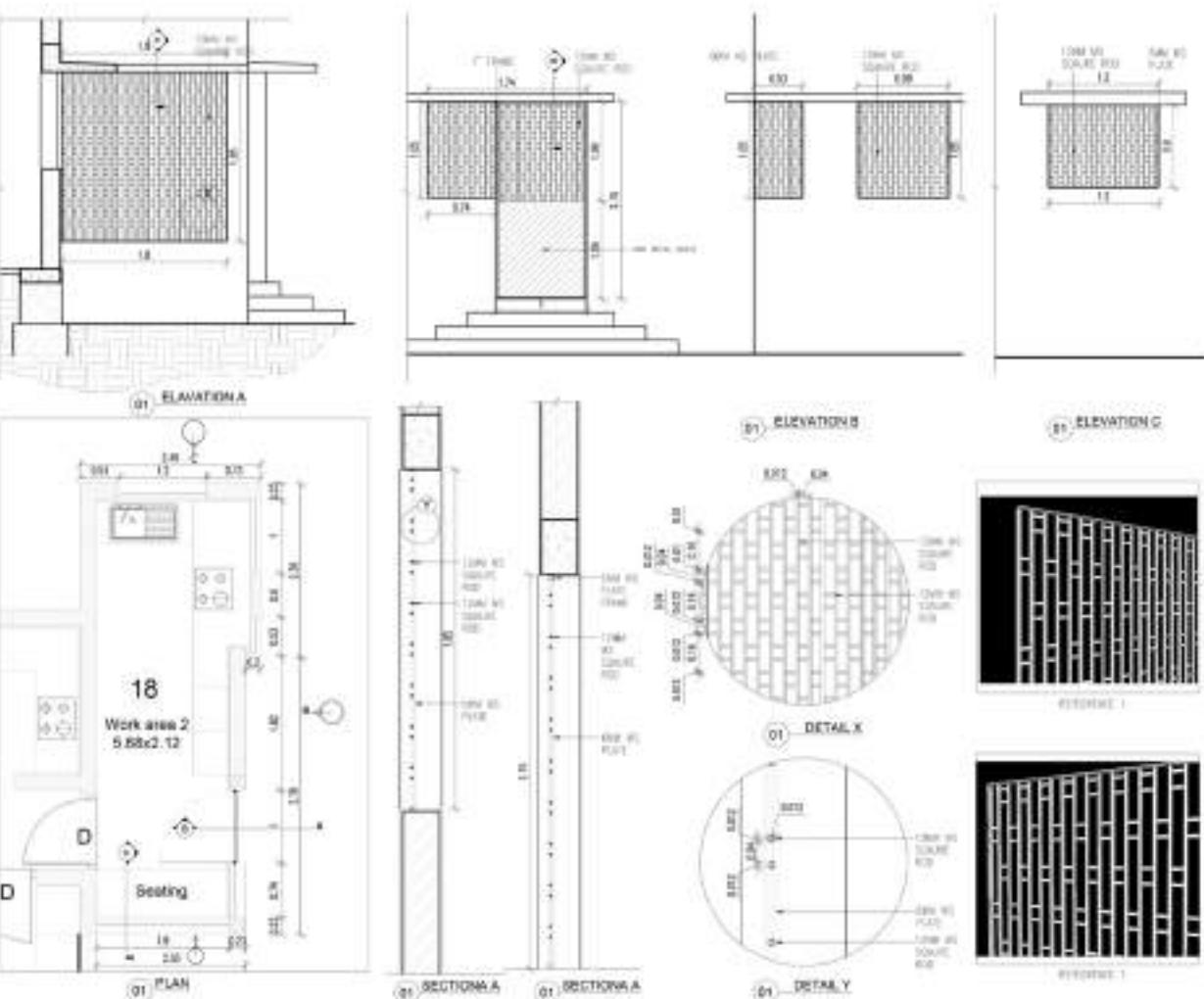
Client - Azar Babu,
Location -Ernakulam
Working drawing - Backside seating, Door detailing



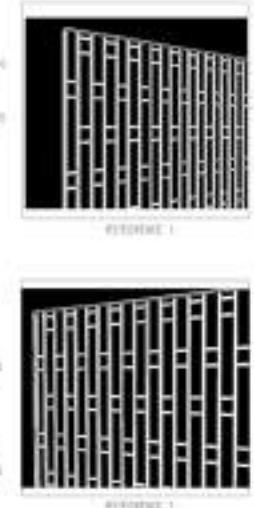
Client - Sarfraz
location - Malappuram
Landscape Detailing



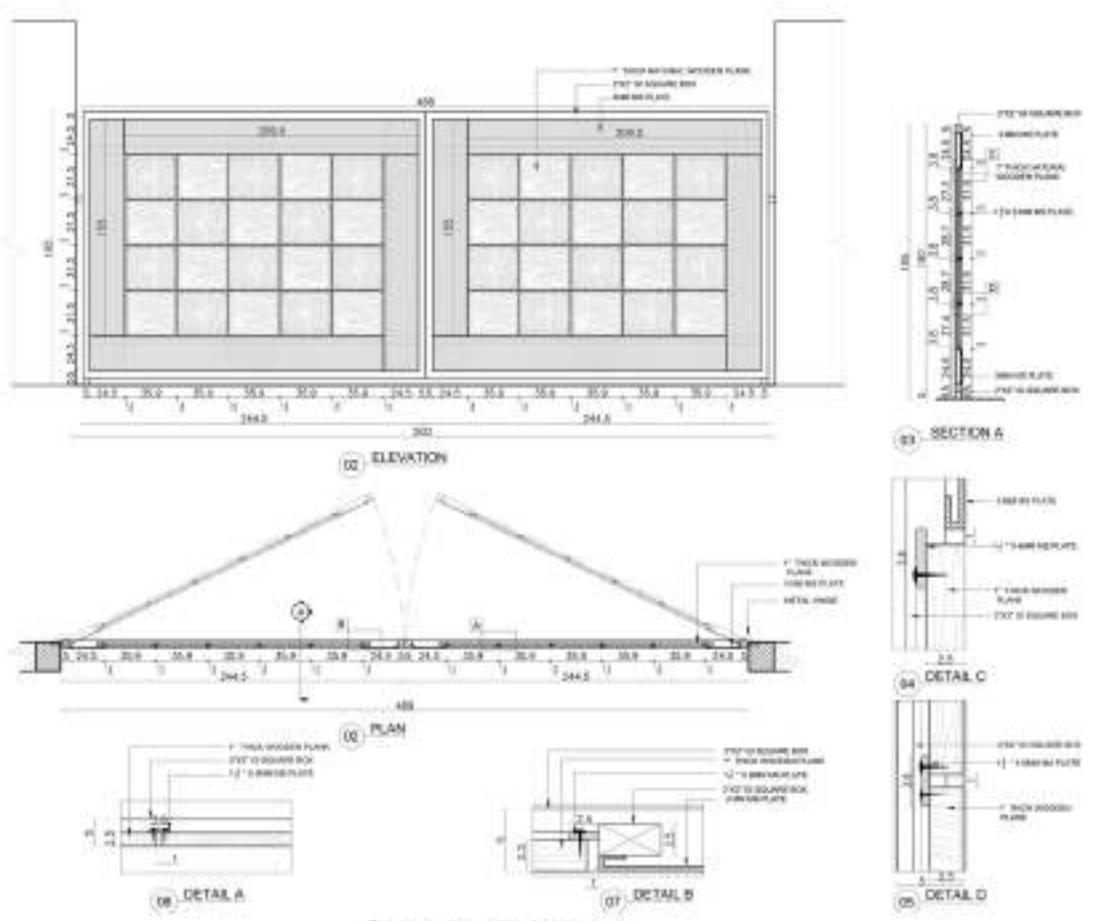
Plan section and elevation for completion drawing



Kitchen grill detail drawing



Restroom interior



Gate detail drawing









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