

VIBHA BELLE

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Portfolio: <https://heyzine.com/flip-book/743dd59332.html>

PROFESSIONAL EXPERIENCE

- **Techno Architecture**, India - *Junior Architect* Sept 2022 – June 2023
 - Handling residential projects, developed designs from concept through visualizations, Communicating and presenting designs to the clients
 - Coordinated with site engineers and supervising the execution
 - Conducting product meetings with vendors
- **Techno Architecture**, India - *Academic Internship* Feb- August 2022
 - Conceptualized projects through renderings, presentations and Massing Design
 - Coordinating documents with vendors and contractors
 - Developing working drawings, Interior designing
- **Lumber and Yarn**, India - *Summer Internship* March- April 2021
 - Developing Architectural Drawings for Large scale residential projects, Conceptual model making

EDUCATION

- **Drexel University**, Philadelphia – *MS in Interior Architecture* Sept 2023 – June 2025
 - Cumulative GPA: 3.92, Awarded Dean's Fellowship
 - 3rd finalist in HOK Design Futures Challenge 2024
- **RV College of Architecture**, India – *Bachelor of Architecture* 2017-2022
 - affiliated to Visvesvaraya Technological University
 - Courses: Architectural Design, Building Services, Materials and Methods in Building Construction, Building Structures, Bio-mimicry, Working Drawing
 - Rathi Best Thesis Award: Shortlisted among Top 6 2022

SKILLS

Software: Revit, Rhino, Grasshopper, AutoCAD, Sketchup, Lumion, Photoshop, Illustrator, InDesign

Analog: 3d printing–MakerBot, Laser cutting, Hand drafting, Presentation, Oil Painting, Pen sketching

Proficient in English, Kannada and Hindi

LEADERSHIP

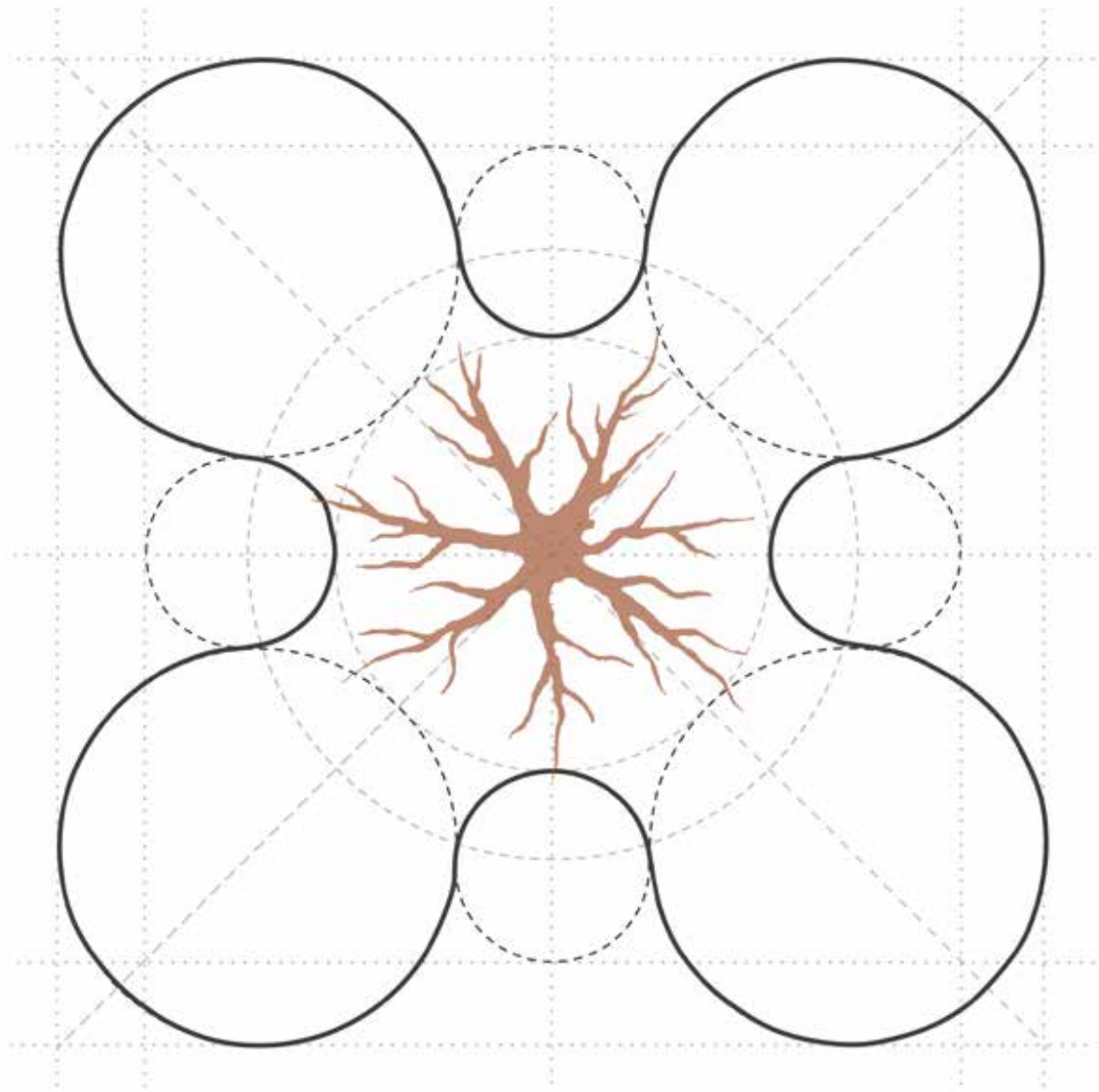
- President of Art Club (Minerva), RVCA 2019-2020
- Involved in Decision-making, set designing and management of events.

PROFESSIONAL ACTIVITIES

- Volunteered with PopUpPlay, Lantern Making at Global Leadership Academy School 2023
- Competition: - 3rd finalist in HOK Design Futures Challenge 2024
 - Participated in Solar Decathlon, India. 2021
- Basics of Revit from Udemey 2018

SITE DOCUMENTATION

- Communities of Tulu Nadu: Thesis research 2021
- Turuvanur: Rural village study for housing design studio 2019
- Bangalore Fort and Tipu Summer Palace: History of Bangalore 2018



VIBHA BELLE
DESIGN PORTFOLIO 2023



VIBHA BELLE

EDUCATION

- 2023-2025 • **Drexel University**, Philadelphia, PA - *Master's in Interior Architecture*
Cumulative GPA: 3.92, Awarded Dean's Fellowship
- 2017-2022 • **RV College Of Architecture**, affiliated to Visvesvaraya Technological University, Bangalore, India- *Bachelor of Architecture (Undergraduation)*

EXPERIENCE

- 2022-2023 • **Junior Architect** at Techno Architecture, Bangalore
- Feb - Aug 2022 • **Professional Internship** at Techno Architecture, Bangalore
- Mar - April 2021 • **Summer Internship** at Lumber and Yarn, Bangalore

EXTRA CIRCULAR

- 2023 • *Volunteer* : PopUpPlay, Lantern Making at Global Leadership Academy
- 2022 • Thesis shortlisted for Rathi Best thesis award among top 6
- 2024 • *Competition*: 3rd finalist in HOK Design Futures Challenge
- 2021 • Participated in Solar Decathlon, India.
- 2020 • *Leadership*: President of Art club in RVCA.
- 2017 • *Workshops*: Masonry Vaults and Funicular structures by Mud Hands

SOFTWARE SKILLS



PROFESSIONAL SKILLS

- 3D printing - MakerBot
- Laser cutting
- Hand drafting
- Presentation
- Rendered views
- Pen sketching
- Acrylic painting
- Oil Painting

A perpetual learner who believes in rooting Architecture to its place and people by humanizing spaces with experiential concepts. I intend to acquire a global perspective on design and explore the spatial implications of cross-cultural lifestyles in the modern era.

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LANGUAGE

English ● ● ● ● ●

Hindi ● ● ● ●

Kannada ● ● ● ● ●

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- iii) Foothills

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6. Miscellaneous

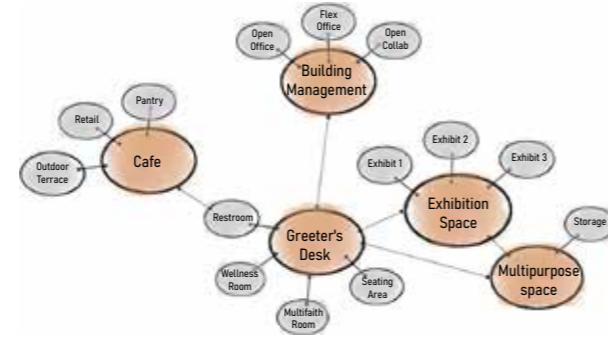
- Elective work
- Art - works

Pg: 41-44

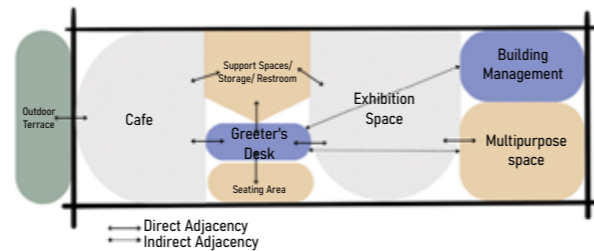
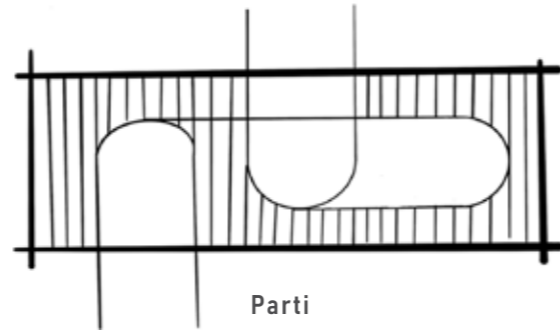
01 THE GROVE ON CREEK

Cobb's Creek Eco Center

Cobb's creek is a green ribbon connecting regions, communities and resources. "The Grove on Creek" is conceptualized as a sanctuary for healing and learning space meant not only for the community but also for the ecosystem of Cobb's creek enhancing the coexistence of man and nature.



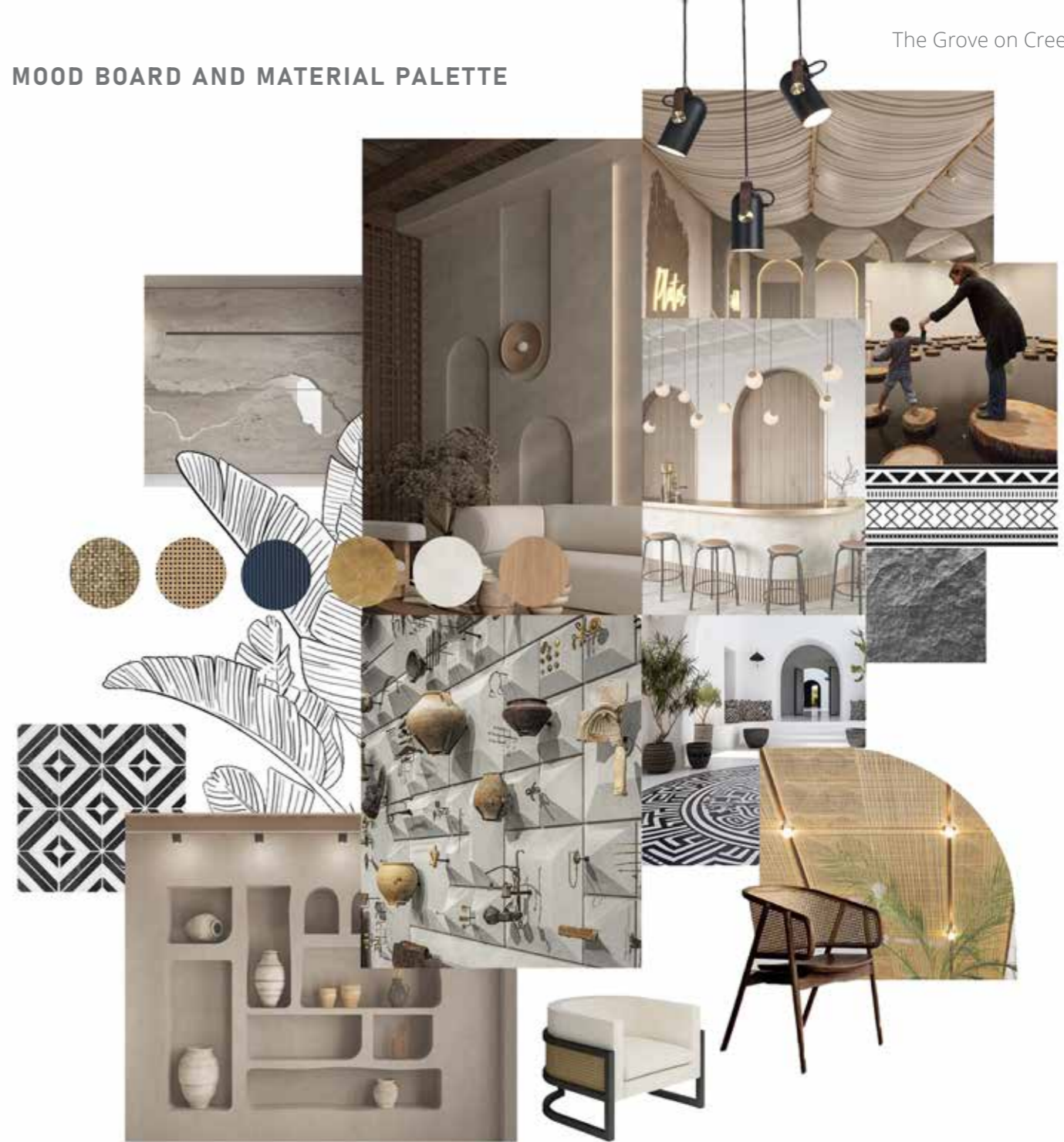
Bubble Diagram exploring Adjacency

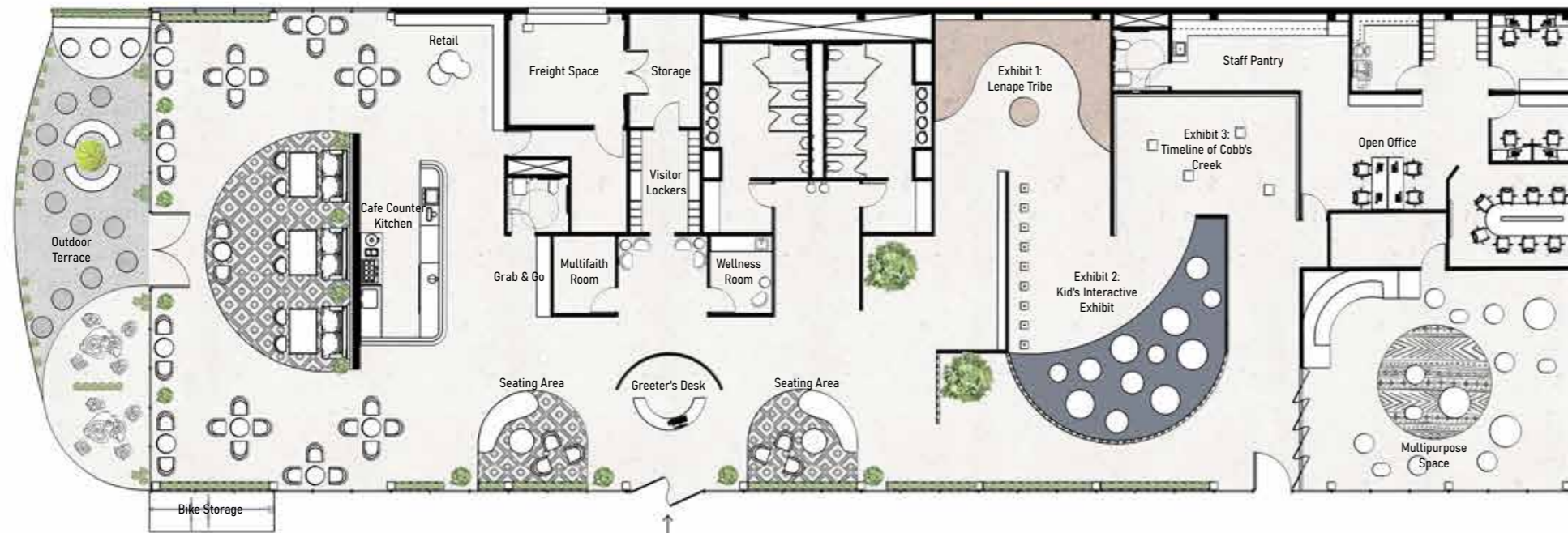


Blocking Diagram

► This Eco-center is designed for visitor curious about Cobb's creek and hikers/ bikers stopping by for respite. The major idea for Zoning of different programs in the eco-center was to have a constant focus on the context of the building at all times building the connection with the natural environment. The parti diagram helps to strengthen this idea by creating areas of interest within the eco-center.

MOOD BOARD AND MATERIAL PALETTE





► Site Plan

▲ Ground Floor Plan
Scale 1/8" = 1' 0"



COBB'S CREEK ECO CENTER

EXHIBITION GARDEN CAFE

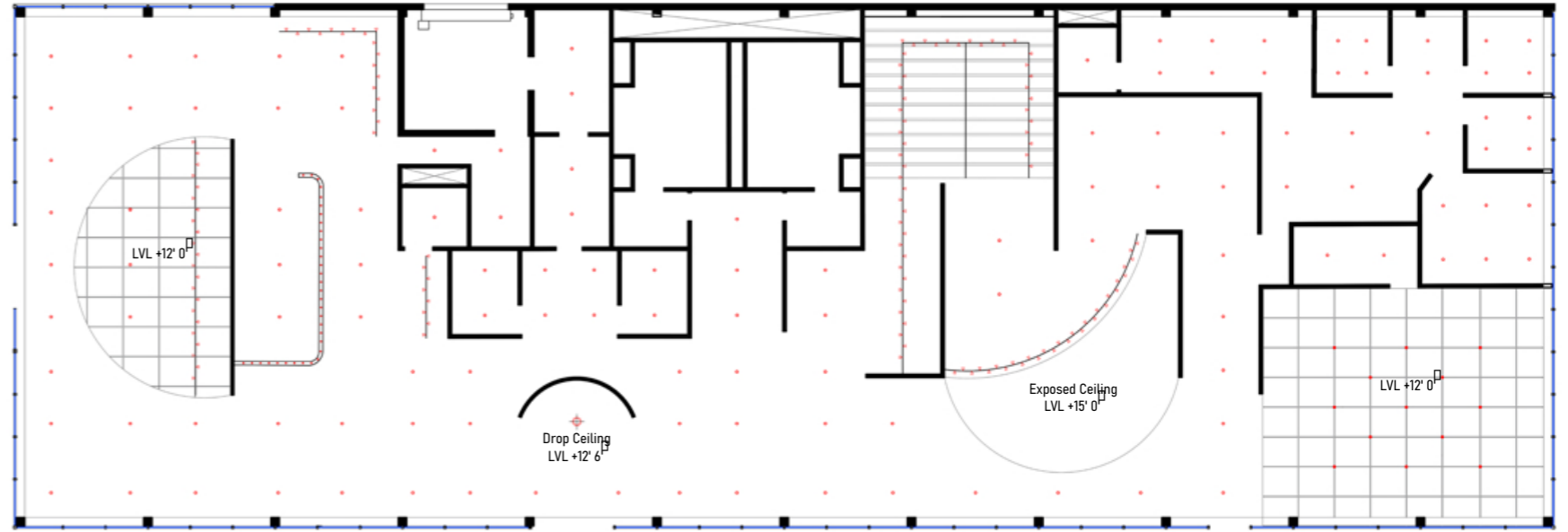
PROJECT TYPE | Competition
PROJECT DATE | Winter 2024
LOCATION | Cobb's Creek Park, Philadelphia, PA

BRIEF

The mission of the Center is to provide a space for visitors of all ages to learn about our **local ecosystems** and the **importance of access to nature**. The educational programs within the Center include exploration of the watershed, sustainability, ecology, healthy eating, agriculture, and active lifestyle choices.

PROPOSAL

The center supports engagement and collaboration of the community, encouraging stewardship of the cobb's creek environment and introducing healthy lifestyle through organic food and community garden. Exhibition space is designed to be a **open space** encouraging visitors to meander around exploring all the various forms of exhibits and have **cohesive learning** about the cobb's creek environment. The exhibits are strategically placed to **complement the exterior** environment, forming a connection from inside to outside. On the other side, we have The Grove cafe with a outdoor seating maximizing the use of curtain wall for picturesque views of the Cobb's Creek nature reserve.



- Downlights
- LED bulbs
- Magnetic track lights
- Pendants
- Bamboo Ceiling Panels
- Jute Fabric Ceiling

◀ **Exhibit 1: Lenape Tribe**

▲ **Exhibit 3: Timeline of Cobb's Creek**

▲ **Reflected Ceiling Plan**
Scale 1/8" = 1' 0"

▲ **Wall Display Elevation: Artifacts related to Cobb's Creek**
Scale 3/8" = 1' 0"

Exhibit 1: This exhibit showcases Lenape Tribe importance, lifestyle and their methods of sustaining and co-existing with nature to the current community.

Exhibit 2: The second exhibit is dedicated to introduce the ecology of Cobbs Creek to the younger generation through interactive exhibits educating them about the flora and fauna of the place.

Exhibit 3: The final exhibit represents the timeline of events that Cobb's creek has gone through the years. Starting with the degradation of cobb's creek and proceeding towards its revival, we come across a series of major events highlighted on the floor and a detailed infographic about it on the walls.

▶▶
Multipurpose Space
Cafe

▼
Cafe Counter Elevation
Scale 3/8" = 1' 0"

▼
Overall Elevation
Scale 3/8" = 1' 0"



The Groove cafe supports the intention of the showcased exhibits by promoting sustainable lifestyle choices through organic produce. The interiors are subtle and warm to enhance the exterior environment inviting the visitors to spend time there and rejuvenate.

Multipurpose space was designed for Community based therapy space on a daily basis engaging with your own communities and at special occasions workshops related to coir pottery, wampum weave for both Kids and Adults. The products crafted here are displayed and sold in the retail space near Cafe to inspire visitors to participate in these workshops.

02

SYMPORIA

i.e euphoric world amongst the ruins

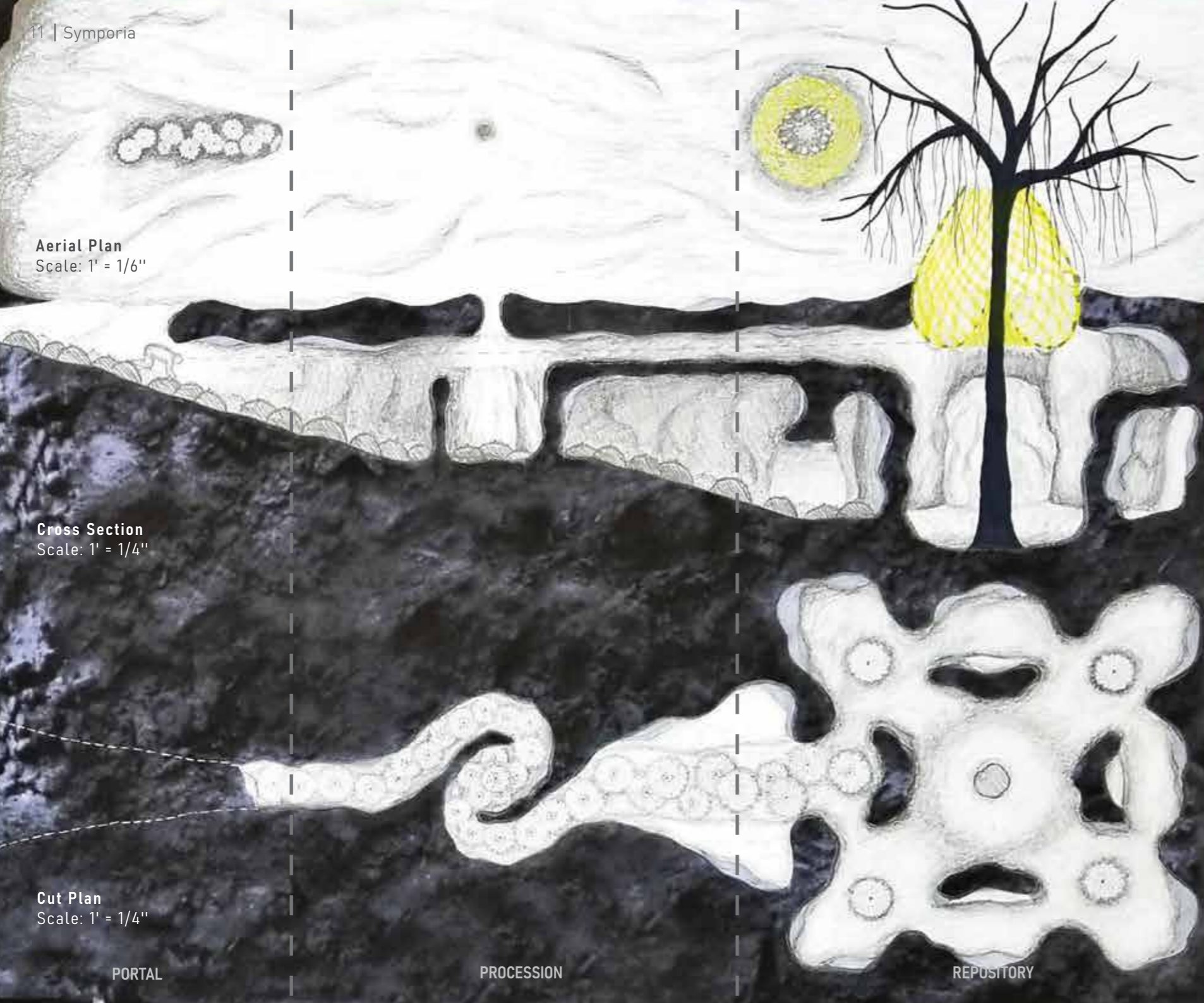
Temple of the nature

From the ruins of a world torn apart by unchecked capitalist ambitions, a resilient 22nd-century community emerged. The Indigenous people once faced banishment and exile, but survived, adapted, and thrived in a transformed existence. Industrial capitalism's effects slowed Earth's rotation, creating two extremes - constant daylight and perpetual darkness. Between these areas is a Twilight Zone in which the narrative unfolds.

**Collage of the world**

A map of the future showing the two extremes of the world with the Twilight Zone in the center where the temple is located. The collage presents a series of study models using mud, natural fibers, chestnut shells, and styrofoam, forming a diverse material palette that maps out the intricate topography of this envisioned world.





Aerial Plan
Scale: 1' = 1/6"

Cross Section
Scale: 1' = 1/4"

Cut Plan
Scale: 1' = 1/4"

PORTAL

PROCESSION

REPOSITORY

TEMPLE OF THE NATURE

PORTAL

PROCESSION

REPOSITORY

PROJECT TYPE | Academic
PROJECT DATE | Fall 2023
LOCATION | 22nd Century EARTH

BRIEF- World building

In this conceptual studio, the idea was to build a futuristic **world rooted in communism** with abundant resources and equality. The surviving indigenous people are partially blind; hence, **tactility and sound** became the foundation of their existence. In this challenging environment, they lead a **nomadic lifestyle**, forming groups based on shared interests, whether related to work or hobbies, which essentially become their purpose of life. To traverse from one extreme zone to another, they require a designated space in the twilight zone to rest and **regulate their bodies to the upcoming conditions**.

PROPOSAL

Learning from the past, they hold the elements of **air, water, Earth, space, and fire** in the highest reverence, as **Demi-gods**. They staunchly reject the exploitation of nature, embracing instead a creed of community and resource sharing. Hence, a repository was designed to house the **4 shrines** dedicated to these elements hidden from the outside world. The only landmark for the temple is the glowing styrofoam structure above ground - a relic from the past amidst dense forest.

CONCEPT

Before reaching the resting area in the center, they engage in an experiential ritual, circumambulating the four shrines, with seasons as markers strengthening our bond with nature and their beliefs.

Air Shrine
(Sound, Spring)

As spring marks the beginning of the year, swirling winds blow into the shrine making a rattling sound above.



Detailed Cut Plan
Scale: 1' = 1/2"

Water Shrine
(Partial vision, winter)

Finally, the water shrine where the dancing reflection of the water on the ceilings and walls caused by the winter sun is a visual treat to watch.



Fire Shrine

(Heat, Summer)

Next is the fire shrine, representing summer which is always marked by lighting up the torch in the center of the shrine made of chestnut shells



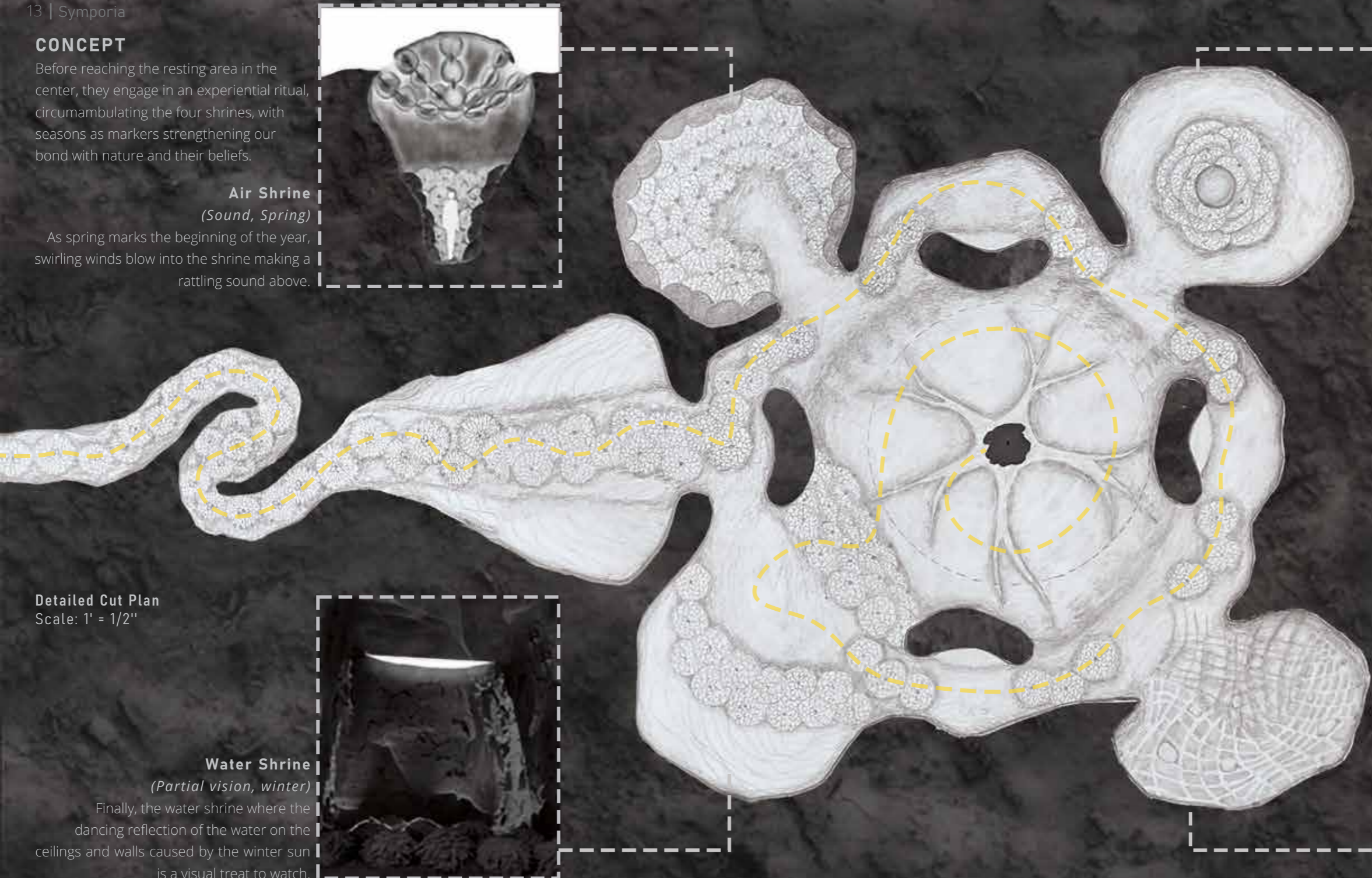
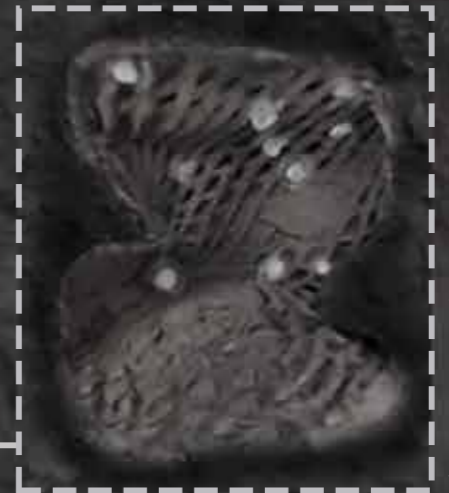
Materials used:

- Mud/ Clay: carving out the entire repository underground
- Chestnut shells: for its tactile ability to navigate through the entire space without the need of vision
- Styrofoam net: regarded as a relic left from the past, used for its flexibility

Earth Shrine

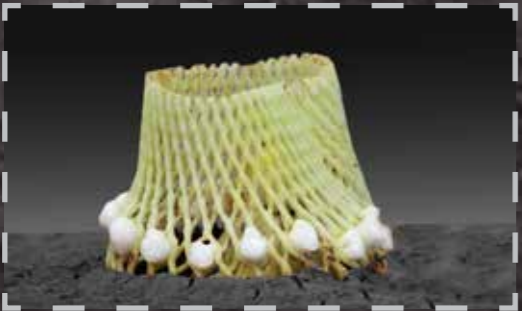
(Tactility, Autumn)

Moving forward is the Earth shrine. The styrofoam waste blends with the mud to create a tactile surface. Organic decay and fungi illuminate the shrine, marking the onset of autumn.





Portal: Point of entry



Portal: Point of Exit



Axonometric View

Scale: 1' = 1/2"

In this unusual world, these four fundamental elements shape their world, a sacred duty for them to balance. As they step down towards the central resting space with the timeless tree at its core, its roots embrace them, as they rest to regulate their bodies for the next venture. The ever-shifting twilight area grants them only a day's respite before exiting through the foam structure by climbing up the tree to continue the journey to the other side.



03 BETWEEN 4 TREES

Techno Architecture

Residential Project

PROJECT TYPE Professional
PROJECT DATE 2022
LOCATION JP Nagar, Bangalore, Karnataka, India
PROJECT AREA 3000 sqft

BRIEF

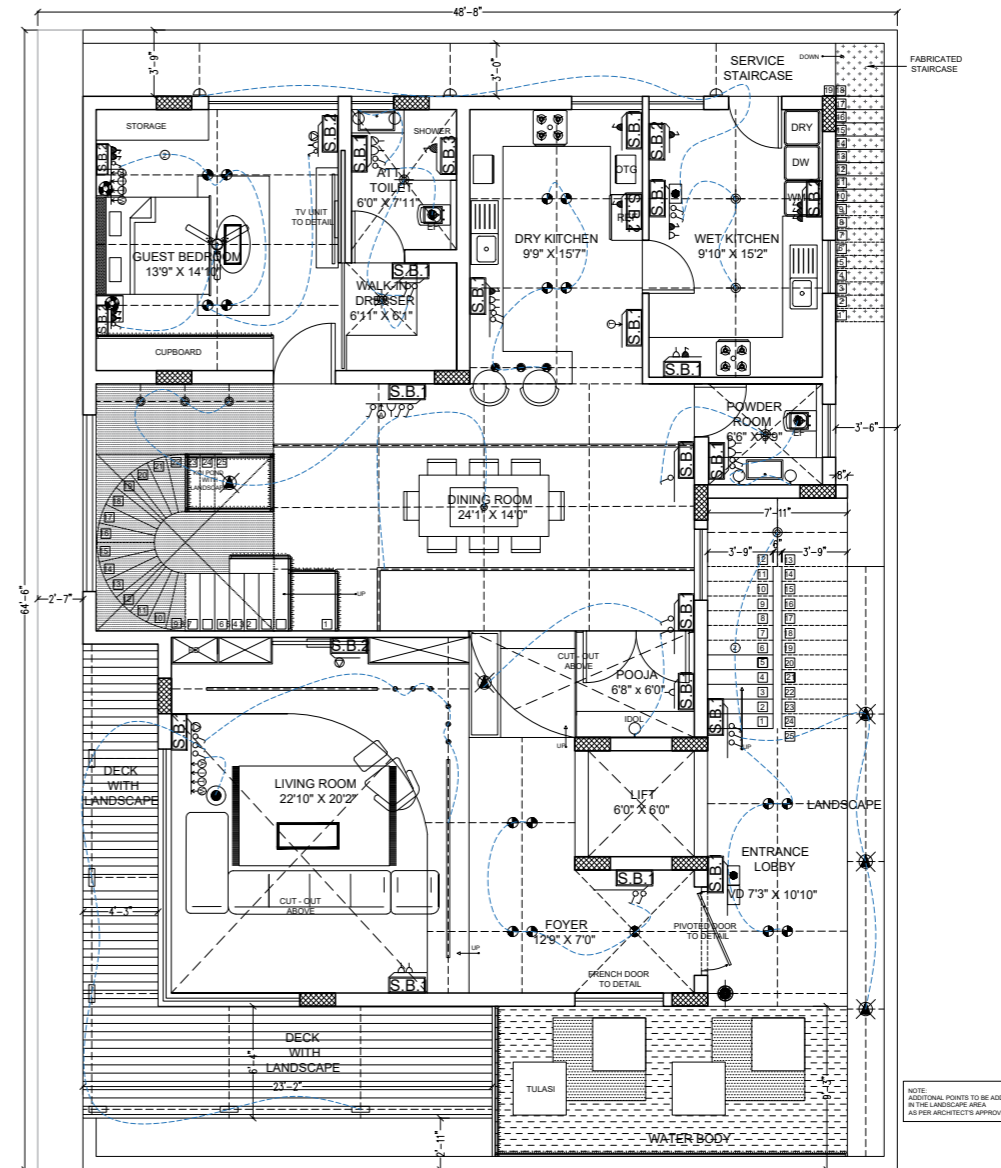
Between Four Trees is a two storey that represents different levels of privacy. The first story as the common area with services while the second storey as private areas. The terrace is left as a Multi-purpose area to be used during celebrations. The residential project is surrounded by four massive trees which become the anchors for viewpoints from different spaces in the house. Hence, exposing the building to the outside by providing **double-height spaces on the North-east corner**. The bedrooms overlook the trees outside. I worked on the massing design of the project inspired by Mid-century and Contemporary styles. In terms of construction, I worked on the Electrical Layouts and masonry working plans for each floor.



Massing 1
Raw Concrete, Stone, Steel



Massing 2
Cement Panels, Wood, Stone



LEGEND :	FIXTURE	MOUNTING HT.	LEGEND :	FIXTURE	MOUNTING HT.	LEGEND :	FIXTURE	MOUNTING HT.
D1	CEILING FIXTURE	CEILING MOUNTED	CHANDELIER	CEILING MOUNTED	T1	FLOOR MOUNTED LAMP	FLOOR MOUNTED	
D2	CEILING FIXTURE	CEILING MOUNTED	W1	WALL MOUNTED FIXTURE	+ 7'2" FFL	T2	TABLE LAMP	
D3	CEILING FIXTURE	CEILING MOUNTED	W2	WALL MOUNTED LAMP	+ 7'2" FFL		EXHAUST FAN	CEILING MOUNTED
D4	CEILING FIXTURE	CEILING MOUNTED	L1	COVE LIGHT			1SA SOCKET OUTLET WITH SWITCH	
D5	CEILING FIXTURE	CEILING MOUNTED		DECK LIGHTS	FLOOR MOUNTED		1SA SOCKET OUTLET WITH SWITCH	
S.B.1	SWITCH BOARD	+ 4'2" FFL	P2	SPIKE LIGHT	FLOOR MOUNTED		T.V SOCKET	
S.B.2	SWITCH BOARD	+ 2'2" FFL		SWITCH 2-WAY			TELEPHONE POINT	
S.B.3	SWITCH BOARD	+ 7'2" FFL		SWITCH 1-WAY			WIFI POINT	
	A.C SOCKET			CALLING BELL			FAN	CEILING MOUNTED
	INTERNET ROUTER POINT			PROVISION FOR CEILING MOUNTED CCTV (AS PER CONSULTANT)	CEILING MOUNTED		FOCUS LIGHT	CEILING MOUNTED
				TRACK LIGHT	CEILING MOUNTED			

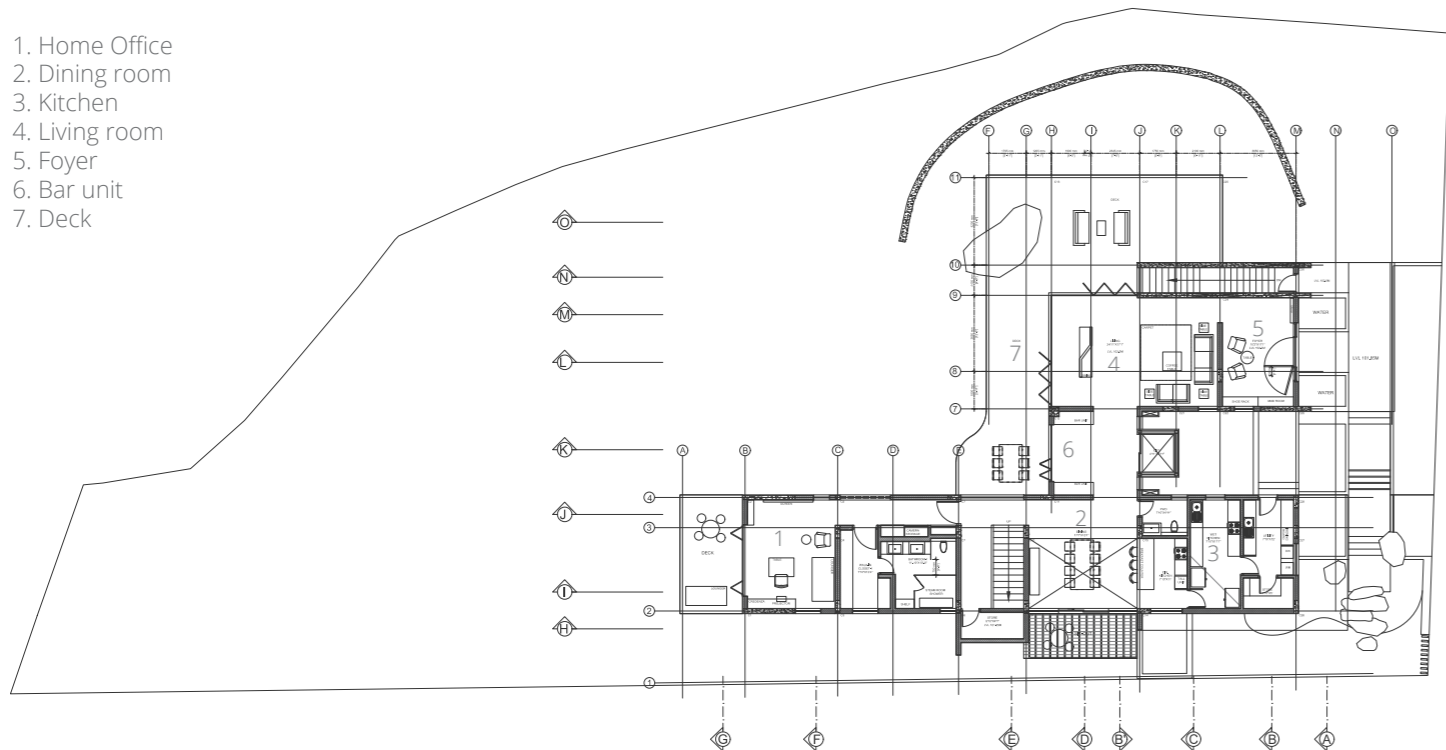
Electrical Layout
Ground Floor Plan

03 FOOT HILLS

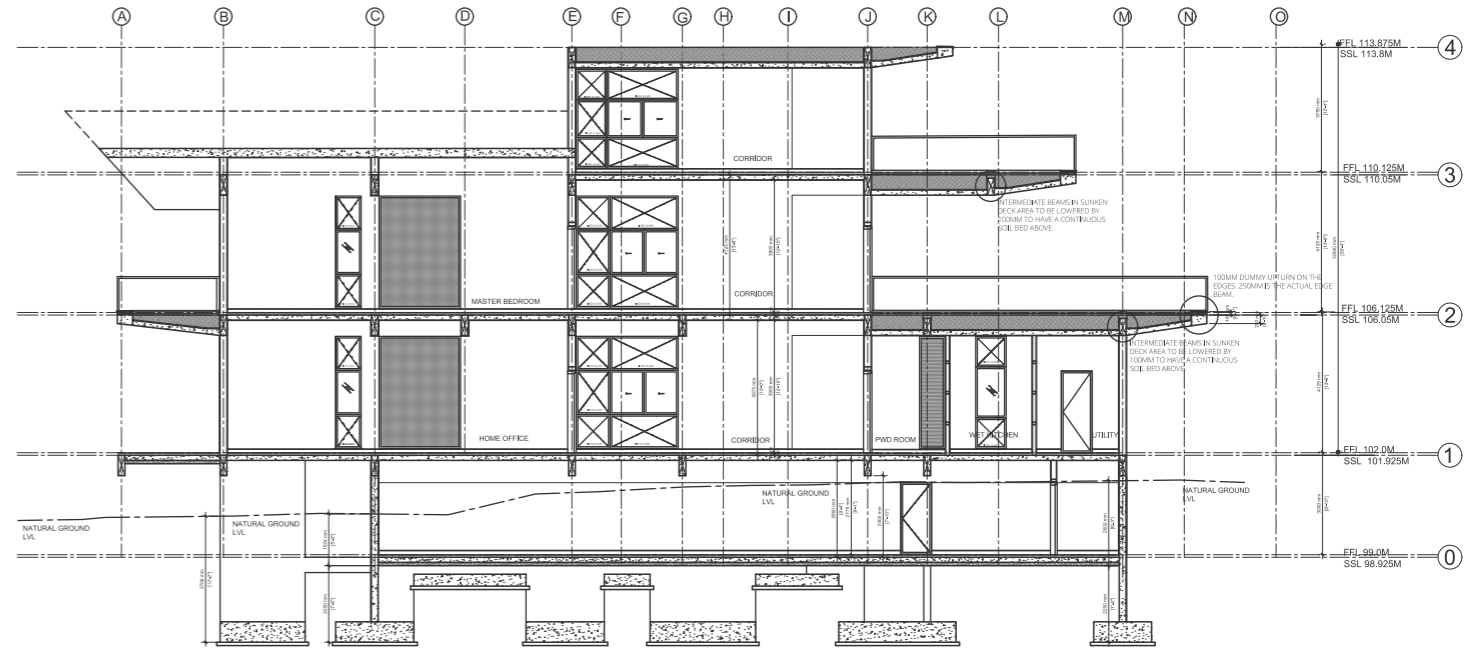
Summer Internship | Lumber and Yarn
Residence for Chet Kamat

PROJECT TYPE Professional : Internship
PROJECT DATE 2021
LOCATION Nandi Hills, Bangalore, Karnataka, India

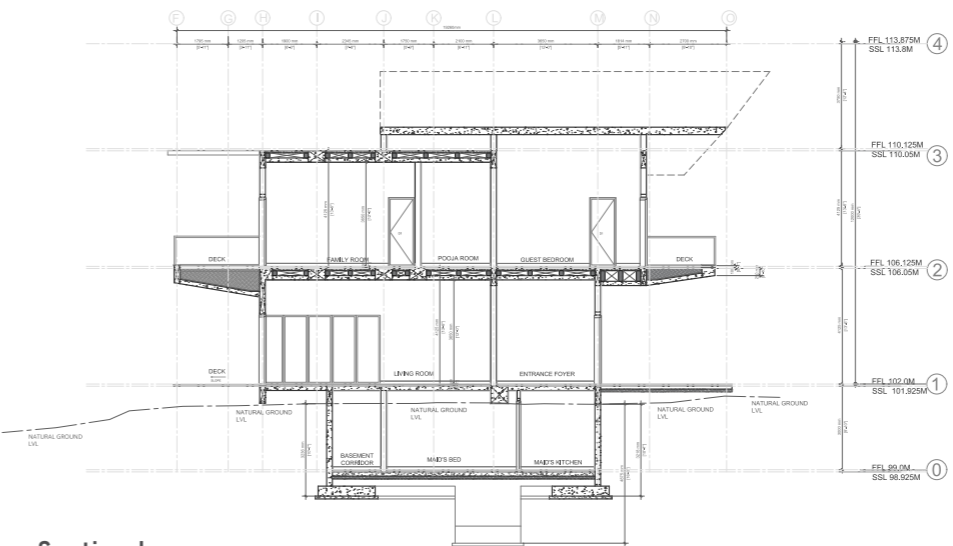
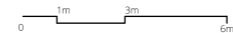
- 1. Home Office
- 2. Dining room
- 3. Kitchen
- 4. Living room
- 5. Foyer
- 6. Bar unit
- 7. Deck



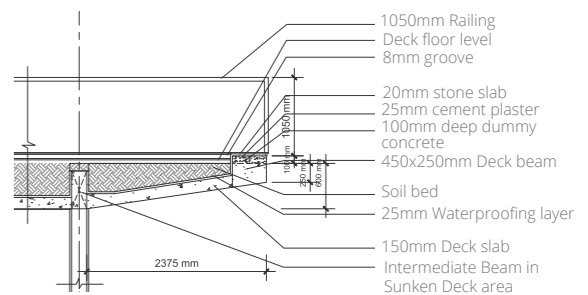
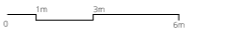
Ground Floor Plan



Section J



Section L



Deck Detail

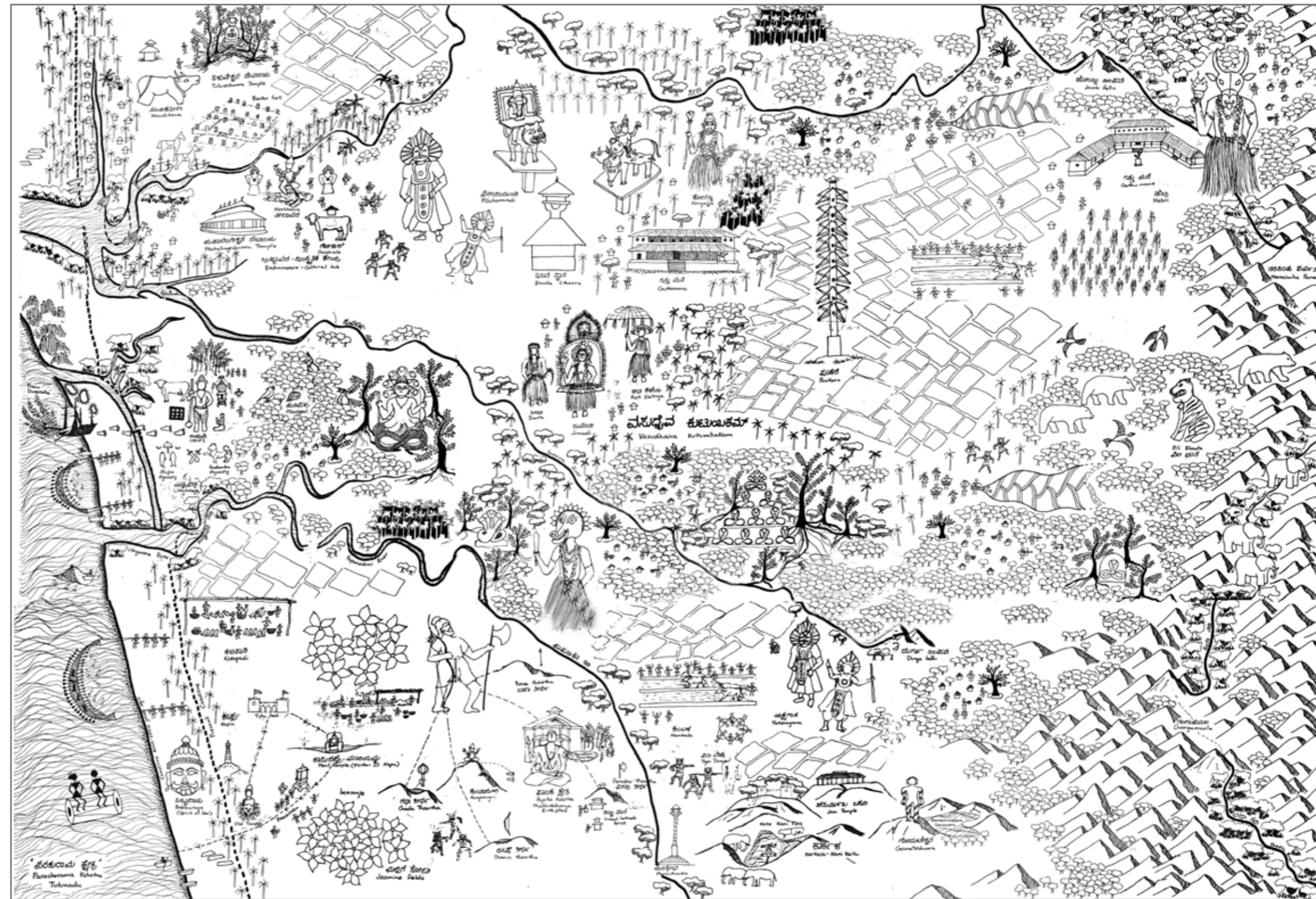
04

BUDA-KATTU

i.e buda (roots) - kattu (tie)/ Indigenous people

A Living system of Traditions

The thesis questions the importance of Indigenous people and their knowledge systems in the current setting of globalization and explores the possibilities of the future through the involvement of these diverse identities.



LIVING SYSTEM

Building upon/
Exploring together Learning/
Acquiring Passing on

PROJECT TYPE | Academic (Thesis)
PROJECT DATE | Fall 2021
LOCATION | Udupi, Tulunadu, Karnataka, India

BRIEF

An attempt to re-imagine a world through the Indigenous lens, encourage learning from our Indigenous people, and collaborate with them to build a sustainable future:

a Contemporary Indigenous society.

The narrative is placed in Tulunadu, a context where people have still maintained their intangible relationship with nature in the form of demi-gods/ Daivas from whom the knowledge systems were acquired from. Encouraging collaboration and engagement with future generations to create awareness about the importance of these knowledge systems is the aim of the project.

PROPOSAL

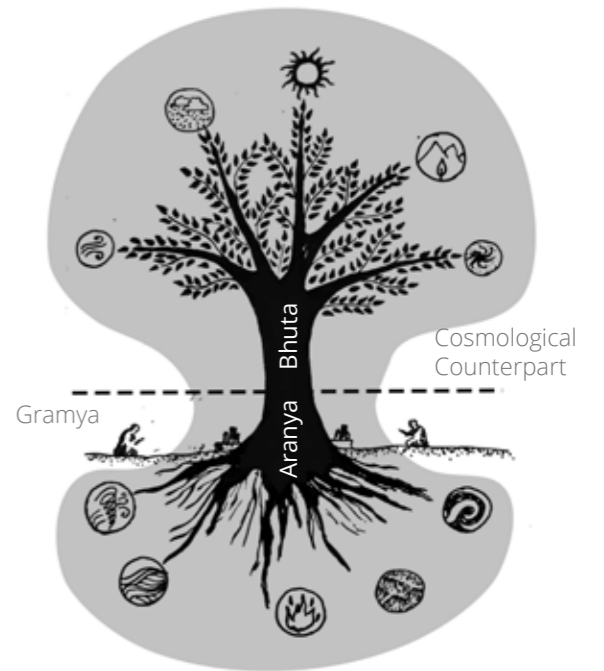
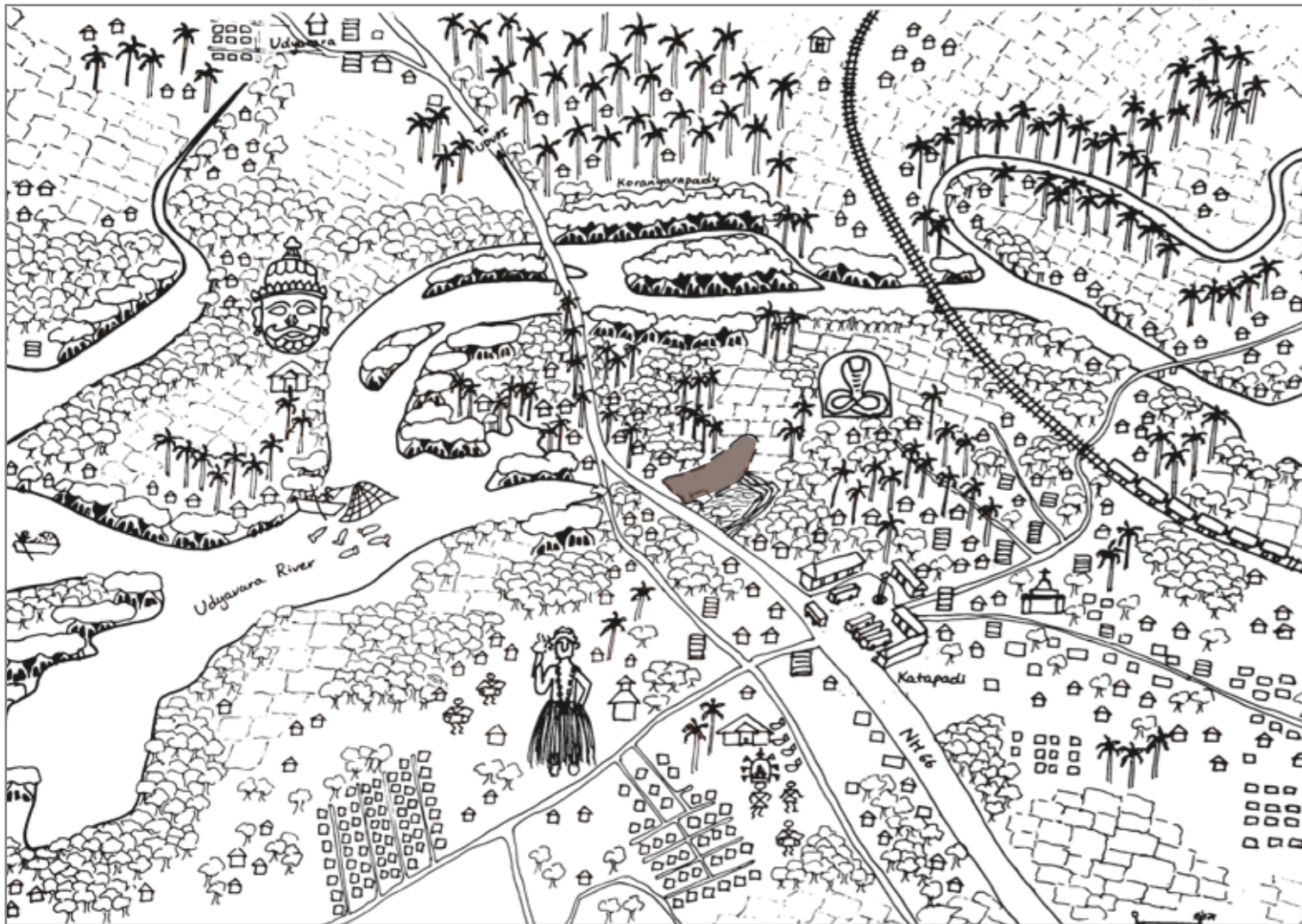
The design is a Living system of Stories, traditions, and knowledge systems within the ethos of the Indigenous community. A space where Indigenous communities of Tulunadu (Koraga, Mogaveera, Billawa), can share their knowledge systems with the locals and researchers/ social workers. As their knowledge systems are embedded in their folk forms, shamanic rituals, and festivals, the design facilitates these celebrations associated with nature spirits.



Indigenous centers forming a network across India

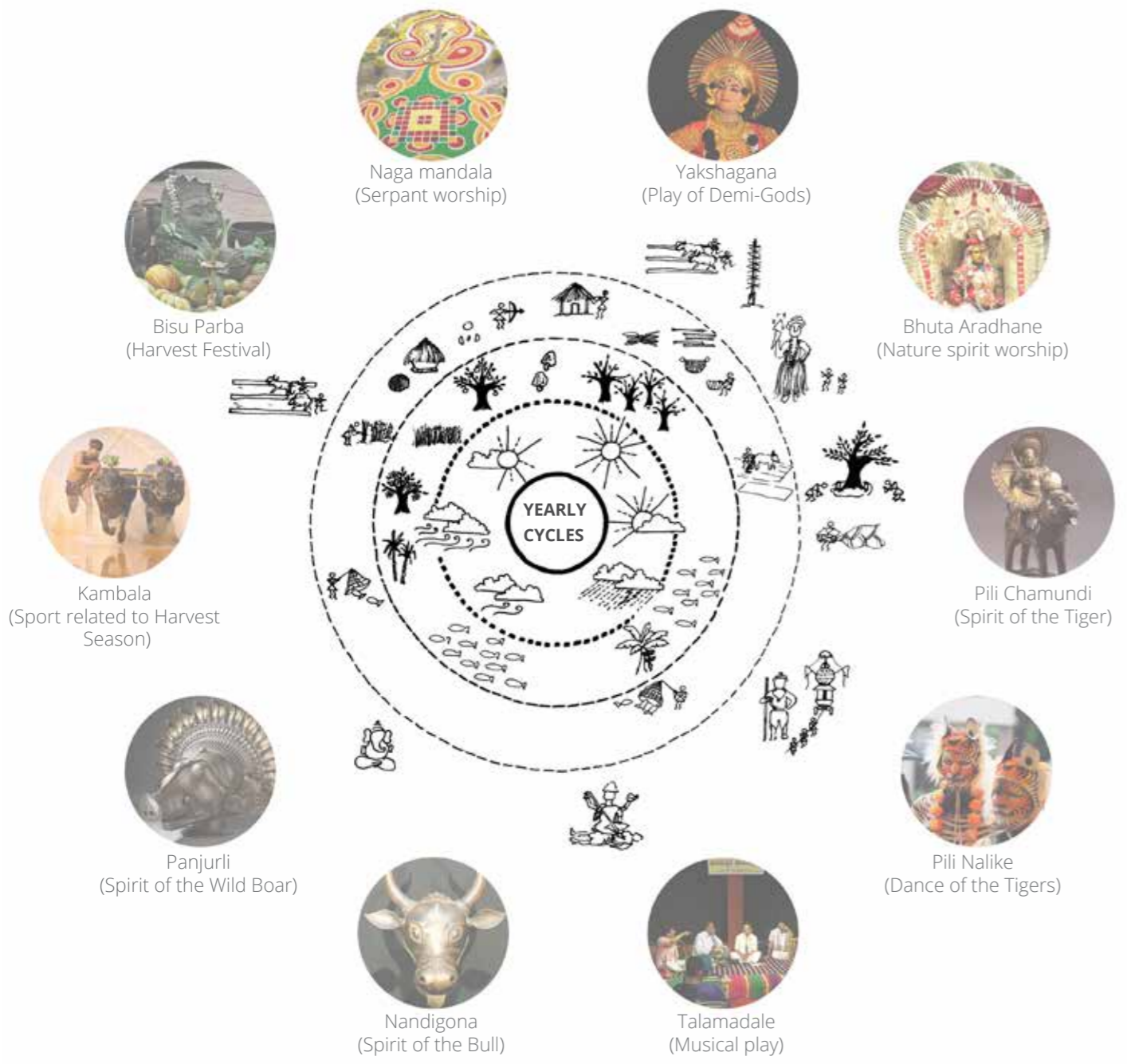
Nature systems and Bhuta (Demi-gods) around the site

Acknowledging the interconnection between Nature and Culture of the place

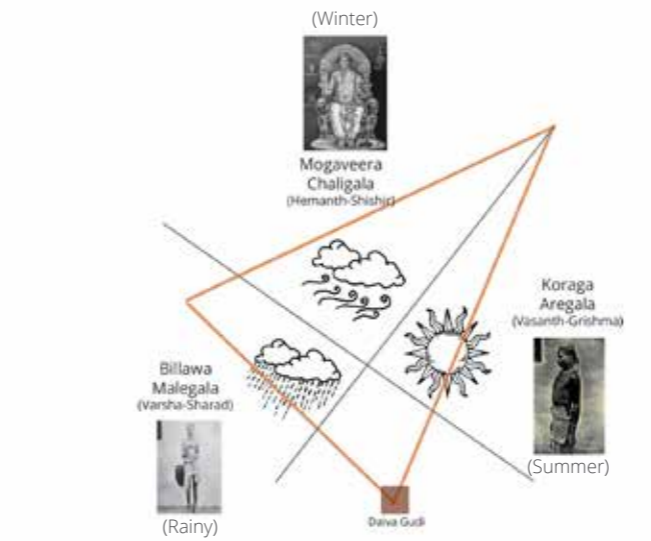


Community's belief through Nature spirits
Gramya: Civilised world; Aranya: Nature; Bhuta: Spirits

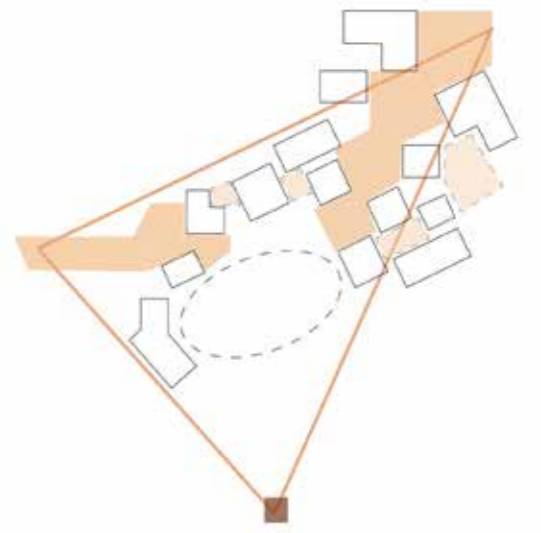
COMMUNITY | RITUALS | SEASONS



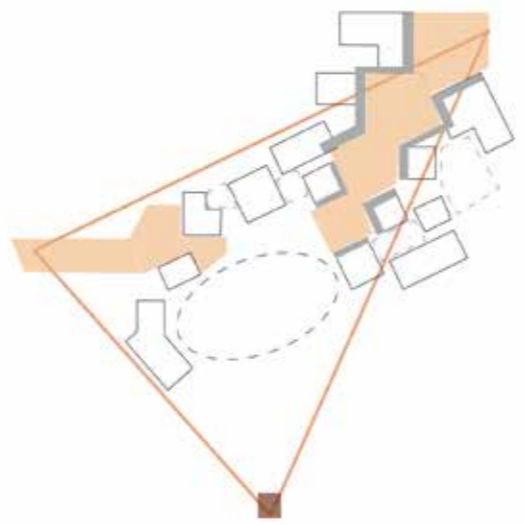
CONCEPT



3 segments based on Seasons significant to the respective Indigenous communities with Daiva gudi (The Main Sanctum) as the focus



3 clusters placed along the site edges opening up the Central common space (Rangasthala) used for cultural events. Blocks rotated to define the inner streets leading to the Rangasthala



Grey areas as transition spaces (Katte) articulating the edges of the streets creating a village-like environment



Circulation leading to smaller nodes within the clusters and beyond to the fields, forest and the lake

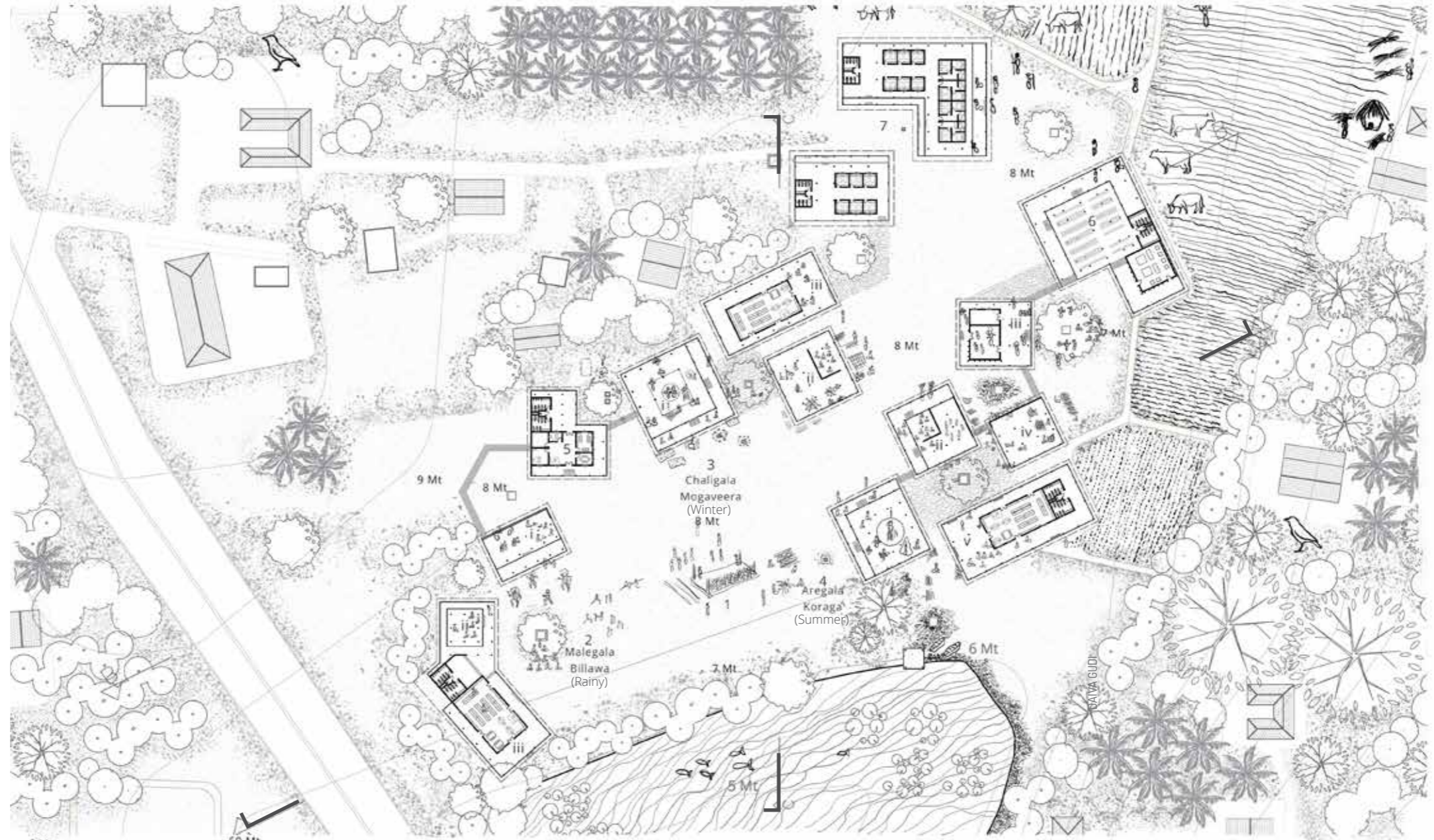
1. Rangasthala (Outdoor Main Court)
2. Billawa Chavadi (Bowmen tribe court)
 - i) Pili Vesha (Tiger dance)
 - ii) Talamadale (Folk Musical play)
 - iii) Archive
3. Mogaveera Chavadi (Fishermen tribe court)
 - i) Nagamadale (Serpant worship)
 - ii) Fish net making
 - iii) Archive
4. Koraga Chavadi (Hills tribe court)
 - i) Bhuta Kola (Nature spirit worship)
 - ii) Chennu nalike (Folk dance)
 - iii) Yakshagana (Play of Demi-gods)
 - iv) Basket weaving
 - v) Archive
5. Administration
6. Bhojan Shaale (Dining Hall)
7. Residency for the performing troupes



▶▶ Ground Floor Plan
Section A

▼ Section B

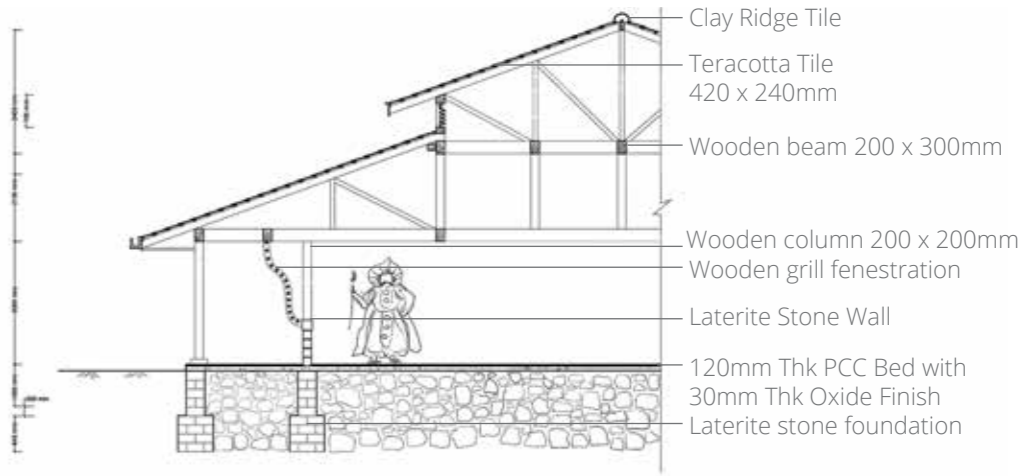
As their knowledge systems are an integrated part of their lifestyle and are embedded in their folk forms, shamanic rituals and festivals, the design facilitates these celebrations within the ethos of the Indigenous society.



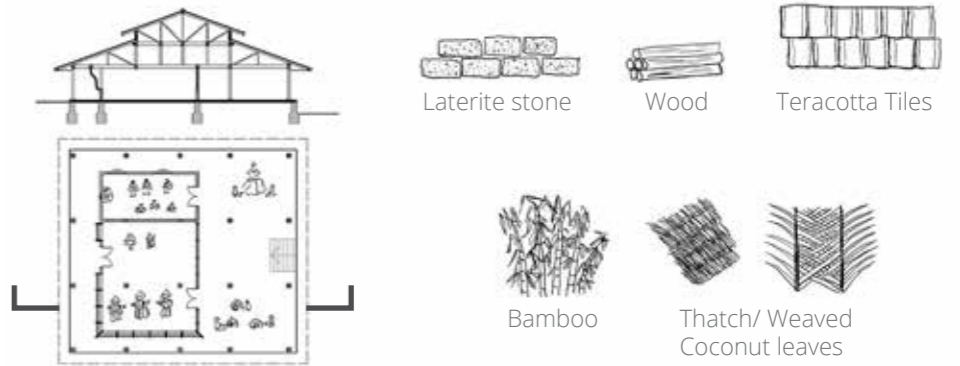


Buda - Kattu
Naga-aradhane during
Full-moon day

Wibha Belle



Detailed Section of the
Yakshagana Block



Yakshagana Block

Material Palette

◀ The design intends to become a part of Indigenous people's daily life by including the cultural and economic activities of all the 3 communities. Nagaradhane is a form of Cobra worship performed beside sacred grooves known as Nagabana. Most of these rituals are performed during the night time to invoke the guardian spirits of Tulu Nadu.

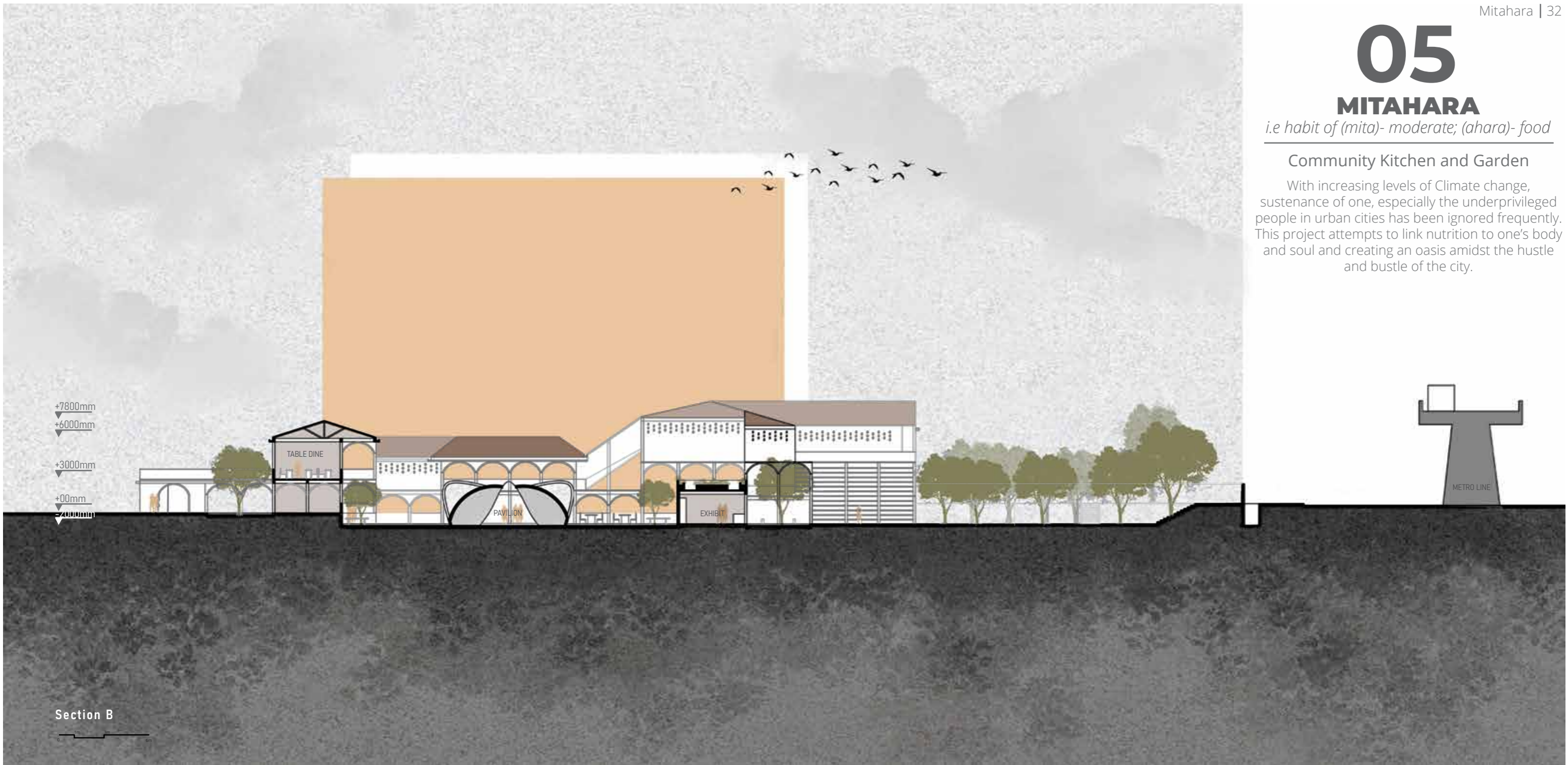
05

MITAHARA

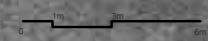
i.e habit of (mita)- moderate; (ahara)- food

Community Kitchen and Garden

With increasing levels of Climate change, sustenance of one, especially the underprivileged people in urban cities has been ignored frequently. This project attempts to link nutrition to one's body and soul and creating an oasis amidst the hustle and bustle of the city.



Section B



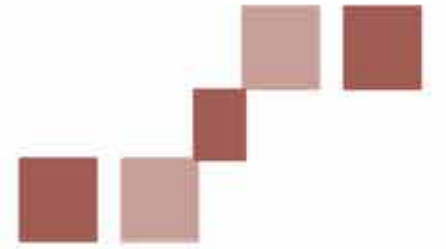
COMMUNITY KITCHEN

Produce (Garden) Preparation (Kitchen) Waste Management (Compost Bins)

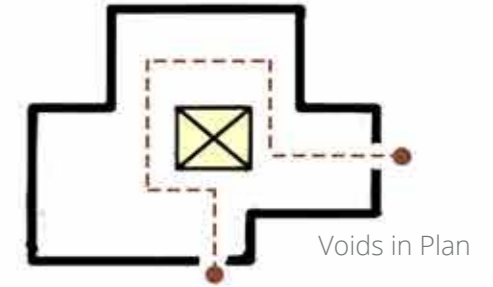
PROJECT TYPE | Academic
PROJECT DATE | Fall 2020
LOCATION | Jayanagar 9th Block, Bangalore, Karnataka, India

BRIEF
 The studio confronted each of our personal opinions on **climate change** and its interrelation with **vernacular and sustainability** and further continued to study the ways where these ideas translated into a built form.
 The challenge on the site, which is a part of Ramzan Food Festival ground was, to bring back the sustainable way of life while also suiting the contemporary context.

PROPOSAL
 The design targets **underprivileged people** in an urban context such as construction laborers, truck, and taxi drivers, etc to provide them with the required nutrition at affordable rates and also integrates awareness about sustainable living through one of the basic commodities - **Moderate food.**
 The proposal is to establish a sustainable program where the produce (Garden), **preparation** (Community Kitchen), and **waste management** (Compost) is done within the site and thus addressing the climate change through Vernacularism.



▲ The main activity (Community Kitchen) is organized with its auxiliary activities by staggering the blocks in both horizontal and vertical axes to create the complexity among spaces as guided by the figure-ground diagram.



Voids in Plan



Voids in Section

▲ **Voids as a Relief**
 Built placed around a void blurs the internal boundaries and thus creating a free flow of movement. When many more such units intervene with each other, a balance gets established among the built and nature, which is the fundamental aspect of vernacularism.



- Residences of the Underprivileged people
- Ramzan Food Festival Ground
- Residential zone - High rise apartments
- IT Companies
- Small Timber and Granite Industries
- Bilal Masjid - one of the largest Masjid in Bangalore
- Proposed Metro line and Metro stations

◀ **Nature of the Context around the Site**



CONCEPT

Through an intense exercise of making figure grounds based on site and program forces, the most reliable ones were taken ahead, which gave the complexity needed among voids and solids through an irregular grid and the potential of having dual access to the design.





Co-existence of man and nature as equals
 The Pavilion is the strong center for both the built and nature providing the balance required in the design. Different volumetric proportions are used to perceive nature at different levels throughout the journey as seen in the sections. The journey is enhanced by various Pause points, transition spaces, and relation to the context.

Throughout the journey, a person constantly communicates with nature either through color, smell, touch, or sound according to the change in seasons.

RAMZAN FOOD FESTIVAL GROUND

PAVILION
as a Strong center where the built and the unbuilt meets.

Floor dine



Cafeteria



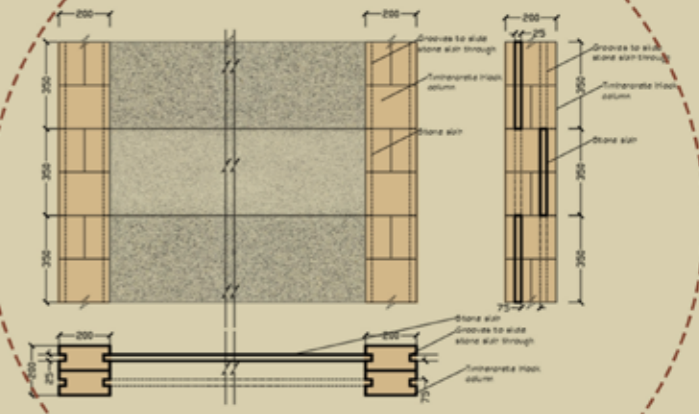
Community Kitchen



Stand dine



FENESTRATION DETAIL



Community Kitchen



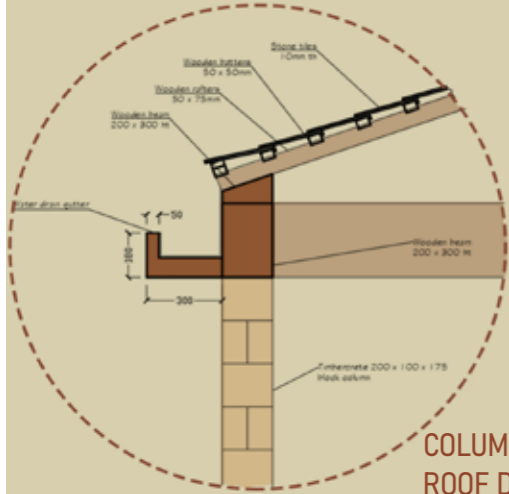
Table dine



Compost



Exhibit



COLUMN-BEAM ROOF DETAIL



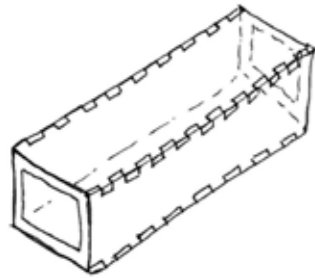
PATH TAKEN

BANNERGHATTA ROAD

- Materials used:
- Local Chapdi stones slabs
 - Timbercrete
 - Wooden members for structure

06 MISCELLANEOUS

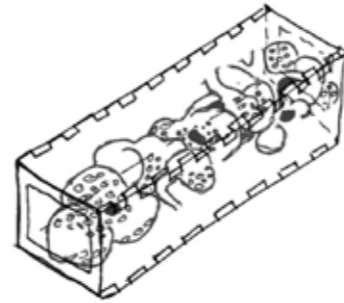
Elective work: Technologies in the making
Kaleidoscope



Outer case:
Laser cutting- corrugated sheet with dovetail joint



Inside case with pattern on surfaces:
3D printing - PLA filament in Makerbot Replicator



Material:
Using dichroic sheet for color and light



IDEA

Patterns created in kaleidoscope has always intrigued me. Hence, my aspiration for this project was to create a rendition of the same wherein the patterns would not be confined in a box but instead be projected onto the surrounding space, offering a distinctive visual experience. The interplay of light at various angles produced captivating patterns in the surrounding space, seamlessly blending the model's shadows and colors from the dichroic film. The result is an interactive artifact.

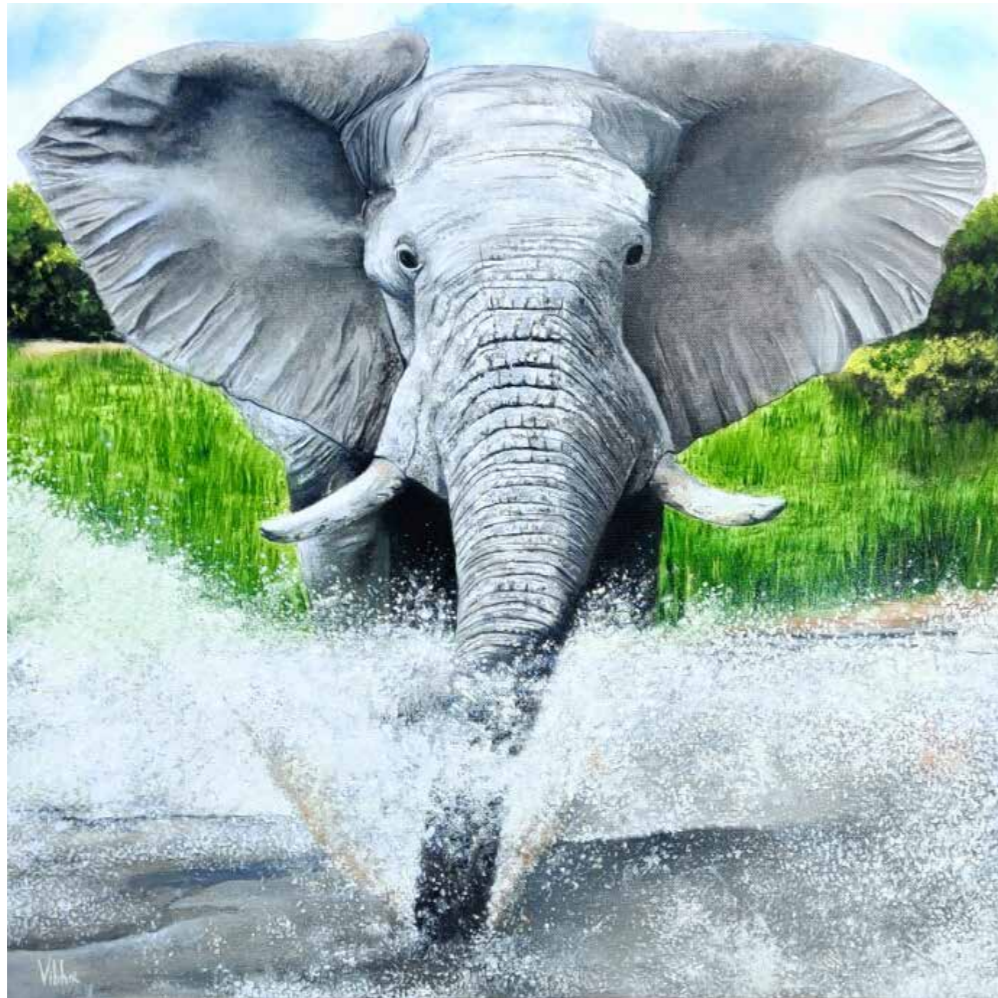
Challenges arose during printing, particularly in the need for extensive supports within the shell, which proved difficult to remove. To address this, the script was further refined to incorporate larger cutouts on the surface, allowing for easier removal of supports. The final iteration of the shell presented complexities for the Makerbot Replicator, necessitating the model to be sliced into distinct parts and rejoined.



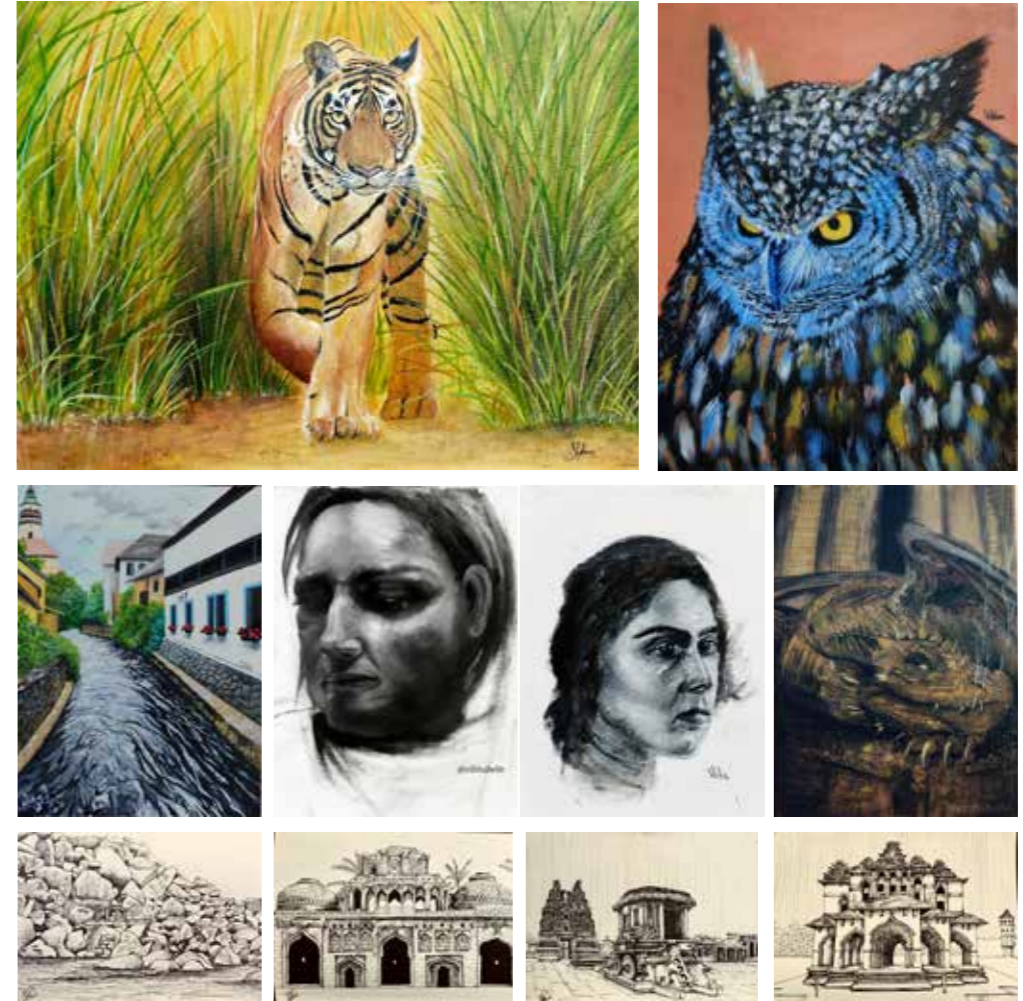
Rhino + Grasshopper Model



Final Model



The Asian Elephant | Oil on Canvas



For more artworks visit <http://vibhaartgalleryblog.wordpress.com/>
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