

Architecture Portfolio

WONG HAU NAM

Selected Works | Taylor's University | B.Arch 2019-2021

WONG HAU NAM.



ACADEMIC

Foundation Year Enrollment: Jan 2018 - Dec 2018
Year: Foundation
GPA: 3.58/4.0

Semester 1 Enrollment: April 2019 - Jul 2019
Year: 1
GPA: 3.73/4.0 (Dean List)

Semester 2 Enrollment: Aug 2019 - Dec 2019
Year: 1
GPA: 3.59/4.0 (Dean List)

Semester 3 Enrollment: Apr 2020 - Jul 2020
Year: 2
GPA: 3.92/4.0 (Dean List)

Semester 4 Enrollment: Aug 2020 - Nov 2020
Year: 2
GPA: 3.56 (Dean List)

Semester 5 Enrollment: Aug 2020 - Nov 2020
Year: 2
GPA: 3.53 (Dean List)

Semester 6 Enrollment: Aug 2020 - Nov 2020
Year: 2
GPA: 3.92 (Dean List)

Overall Grade **First Class Honors (CGPA:3.7)**

*Dean List is an award to students scoring an average of GPA 3.50 & above.

ACIEVEMENTS

2019 NYALA 31st Architectural Student Workshop
(Competition Participant)

2019 BambooArk @ KLAF 2019 (Participant)

2019 Architectural Design I External Examiners and
Lembaga Akitek Malaysia (Selected Work)

2019 **Future Thinker VI: Studio 1 (Presenter)**

2019 Taylor's Architecture Fest 2019 (Selected Work)

2020 Architectural Design III External Examiners and
Lembaga Akitek Malaysia (Selected Work)

2020 Future Thinker: Studio 3 (Shortlist)

2020 Future Thinker: Studio 4 (Shortlist)

2021 **Future Thinker X: Studio 5 (Presenter)**

*Future Thinkers is an event where the best studio work is selected for each semester and is showcased through a presentation during the SABD Design Forum.

For more, check out: <https://www.instagram.com/sabd.tribe/>

EDUCATION

2018 - 2019 Foundation in Natural & Built
Environment
(Taylor's University Lakeside Campus)

2019 - 2020 Bachelor of Science
(Honors)(Architecture)

Jan 2021 MOA / Formzero Internship
(3 months)

Dec 2021 Completion of Part 1

CONTENT

SOFT

Interpretation & Representation
Tutor: Ms Raihana

1

KIOSK

Food & Beverage Kiosk
Tutor: Mr Bryan Chee

2

OASIS

Klang Community Centre
Tutor: Ms Hanani

3

PURGE

Covic-19 Spatial Translation
Tutor: Mr Teoh Way Keat

4

LOST

Visitor Interpretive Centre
Tutor: Mr Teoh Way Keat

5

REVIVE

Kolkata Sustainable City Proposal
Tutor: Mr Anxu

6

SOFT

Project : Interpretation & Representation

Size : 8m3 – 10m3

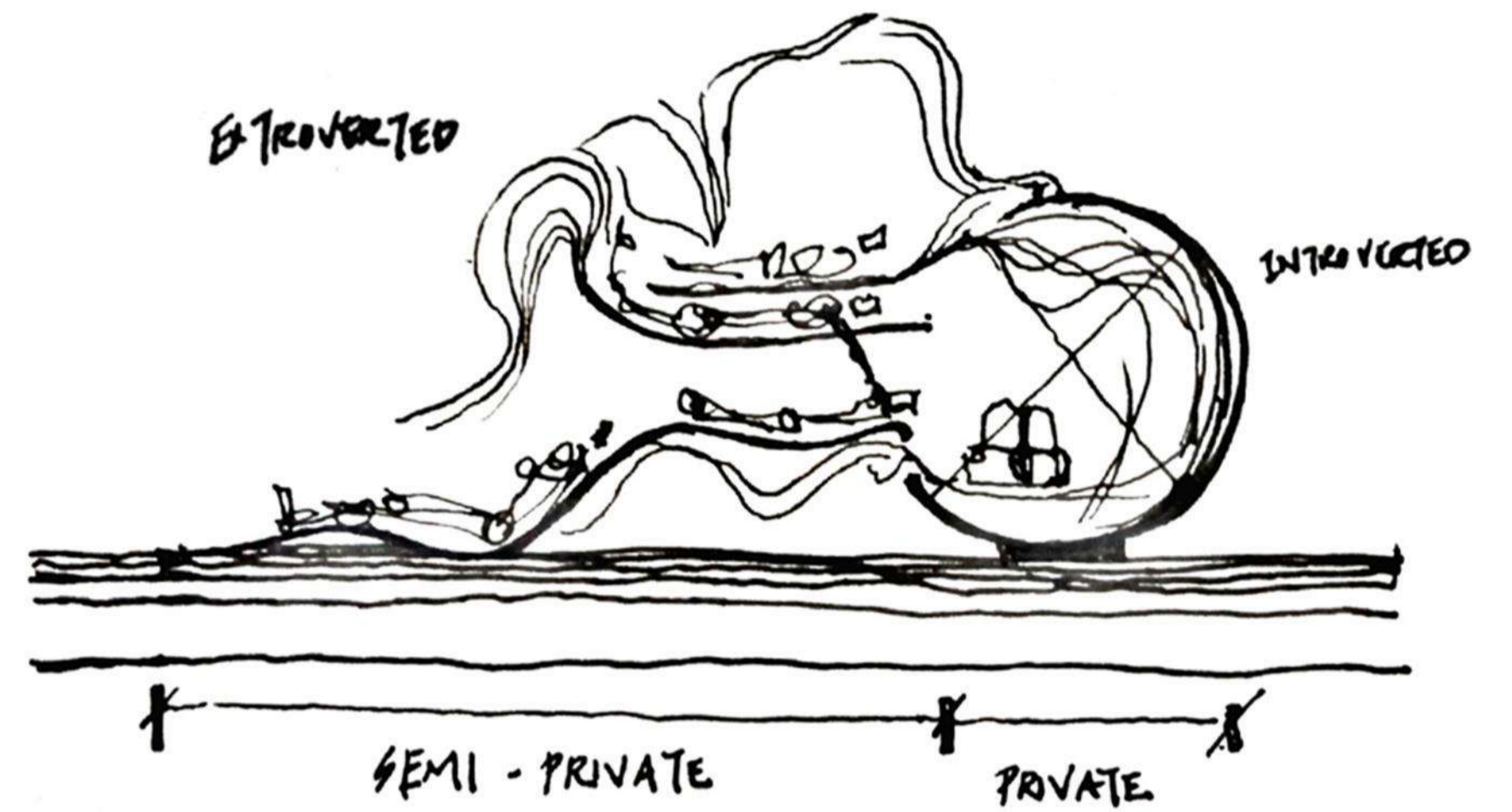
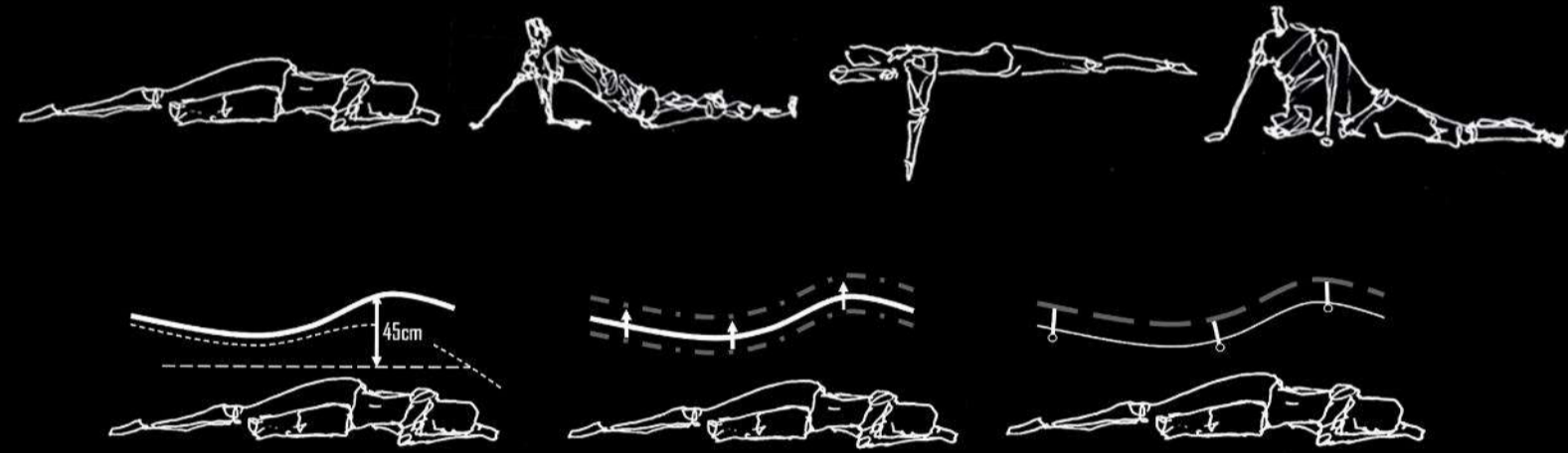
Award : Future Thinker VI (Individual)

Year : 2019

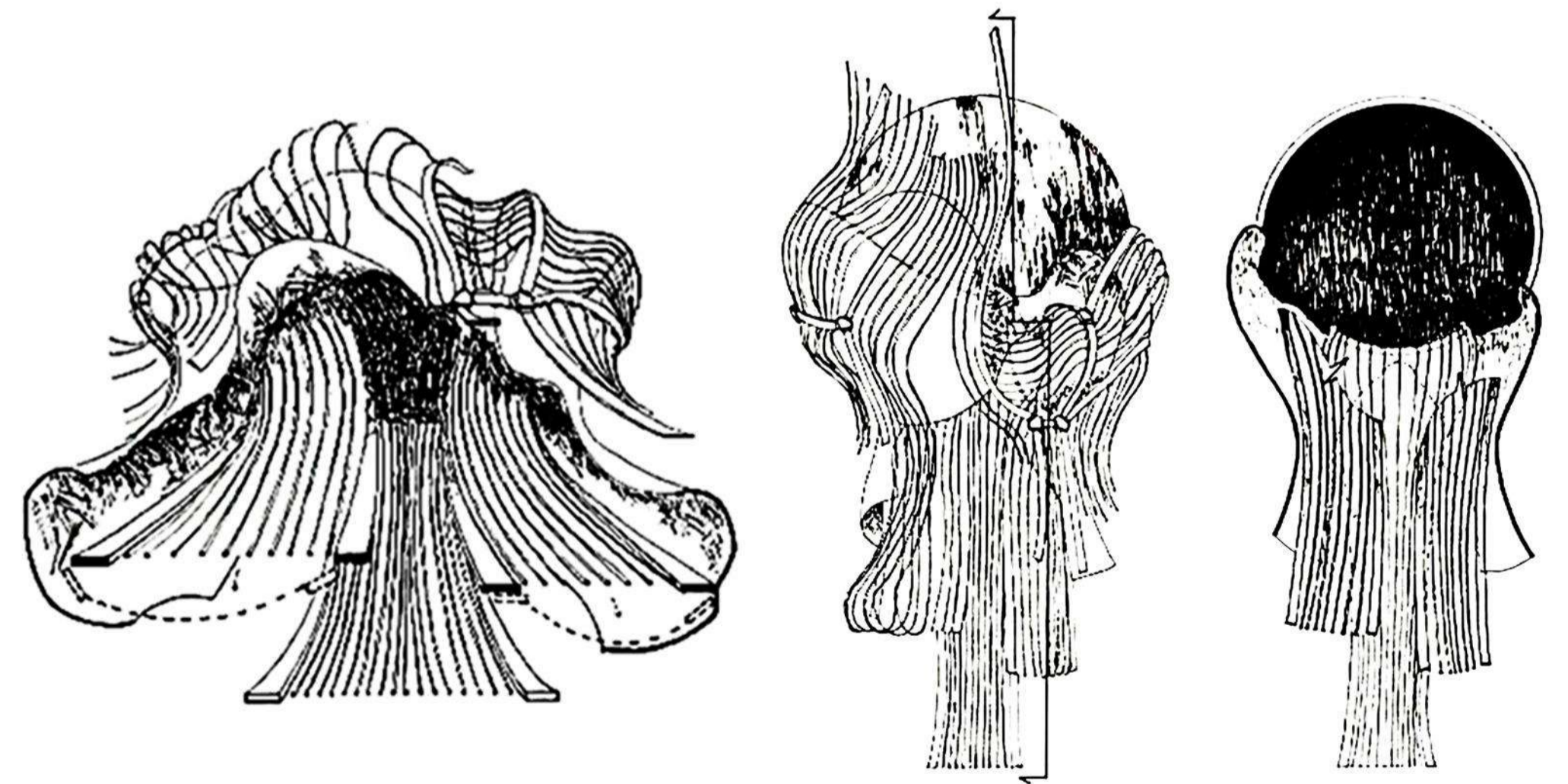


CONCEPT

In this project, we are to design a sensory space within 8 to 10 cubic meters. The *banal activity* for my structure was *lying down*. I explored methods of lying as a person hits the bed. The user will explore the space through different methods of lying, he or she constantly moving about the space, then they enter a more dormant space where the person moves less vigorously and begins to sleep. My intention was to create two contrasting spaces; a playful extroverted space and then an introverted one. My inspiration for the playful space was the pear and its moldable mesh. One end constantly evolving while the other end stays stagnant as the user moves through the spaces.

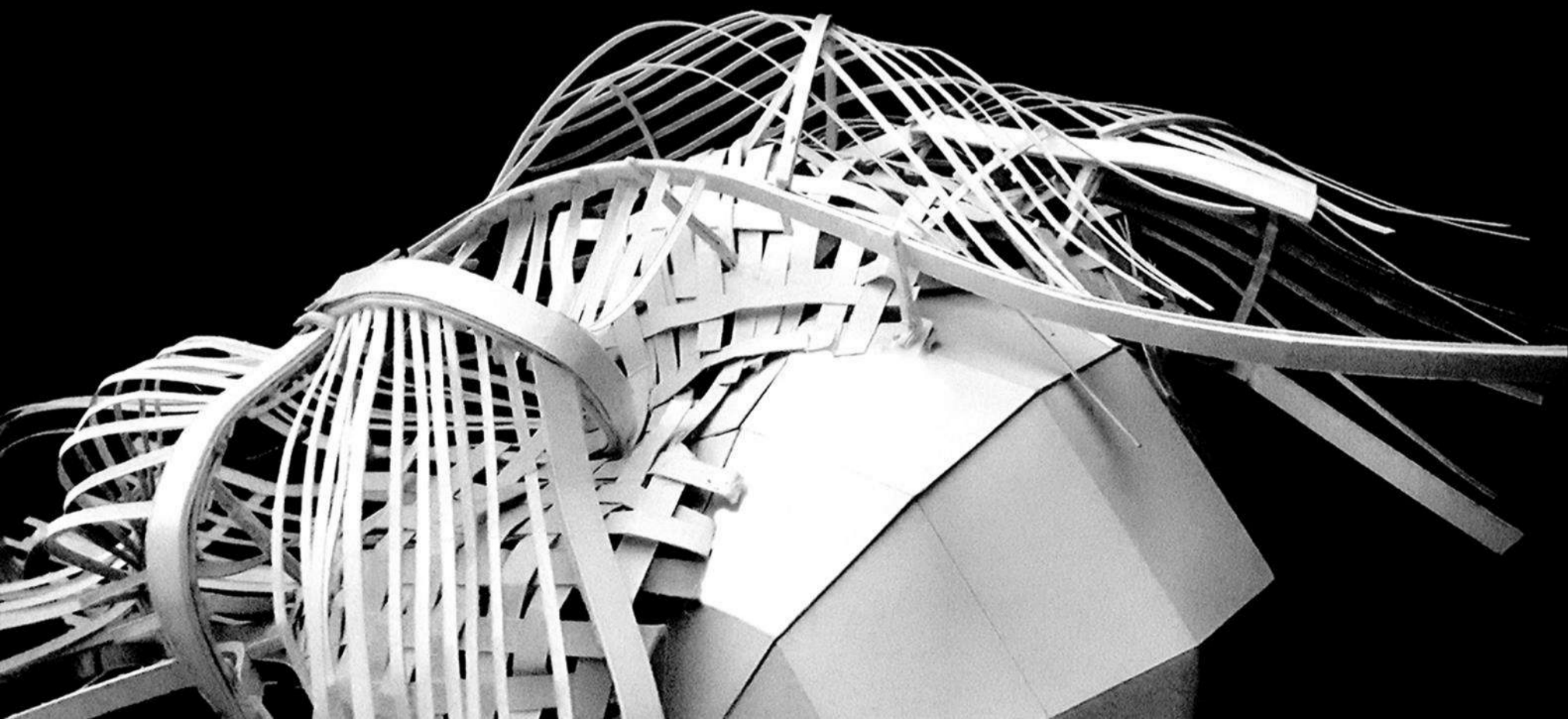


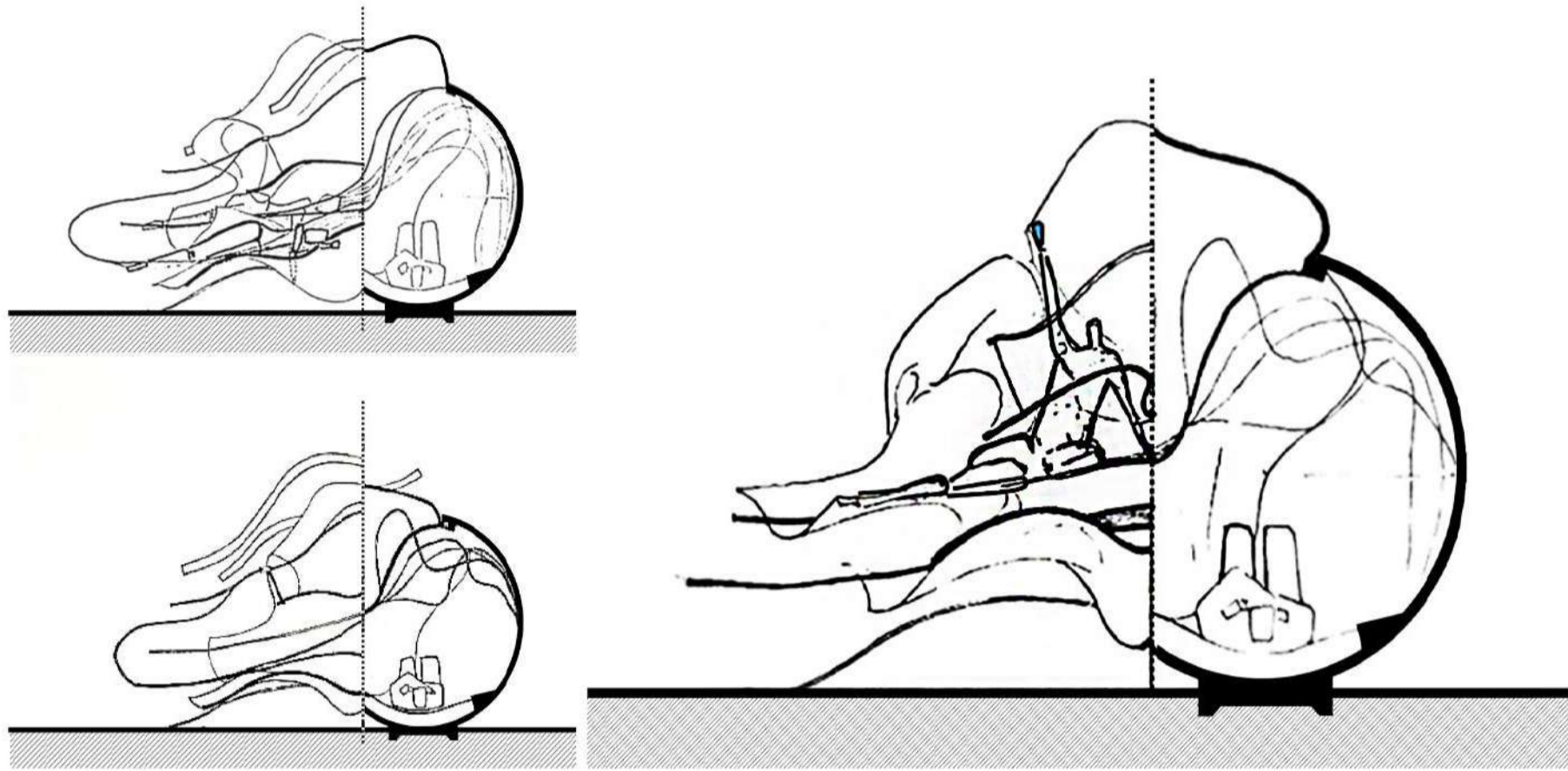
The preliminary section expresses the journey I wanted to portray as well as the form and texture the users interacts with. From a playful fabric like space (semi-private) to a spherical volume (private spaces) to portray a contrast of spatial qualities.



Sectional perspectives

Plans





Studies of section showing the different forms and movement of the woven fabric molded by the movement of the users within the structure.

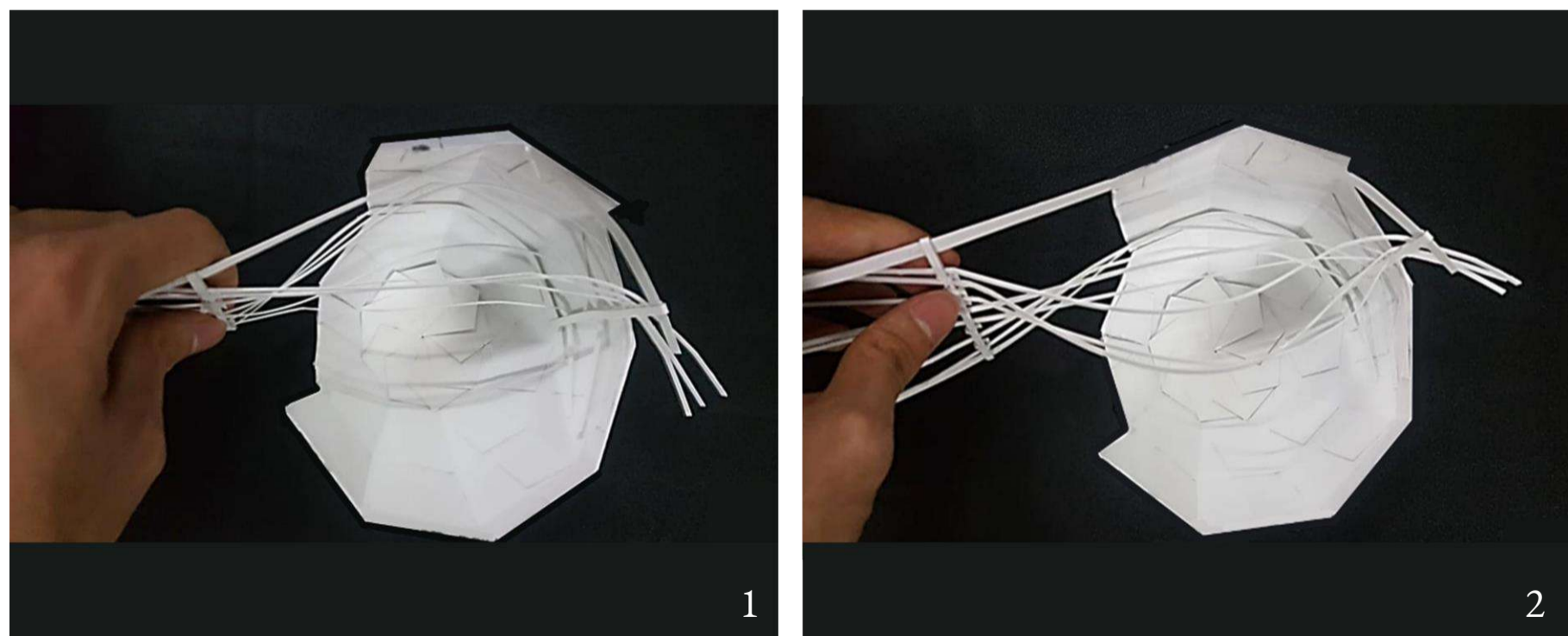
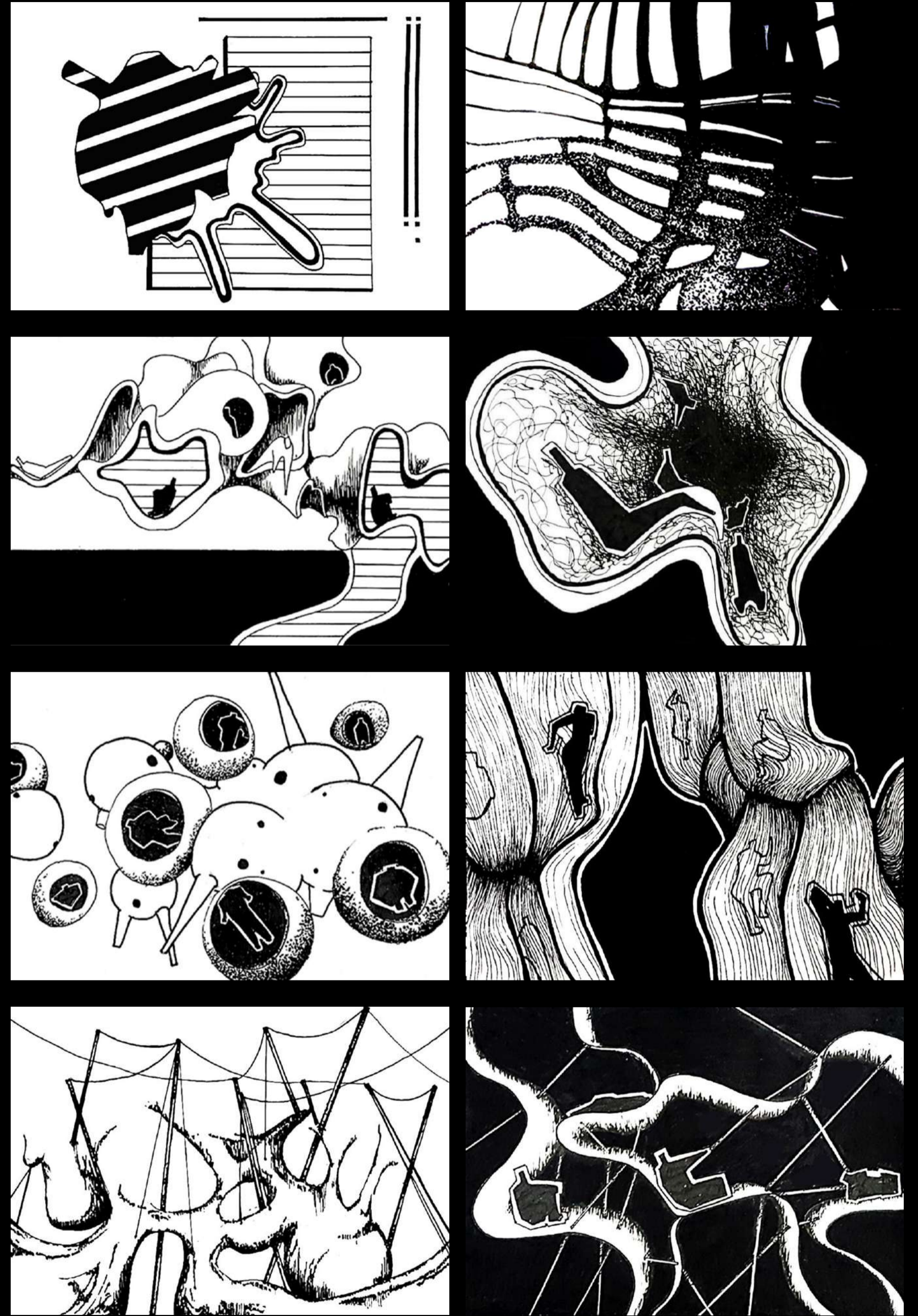
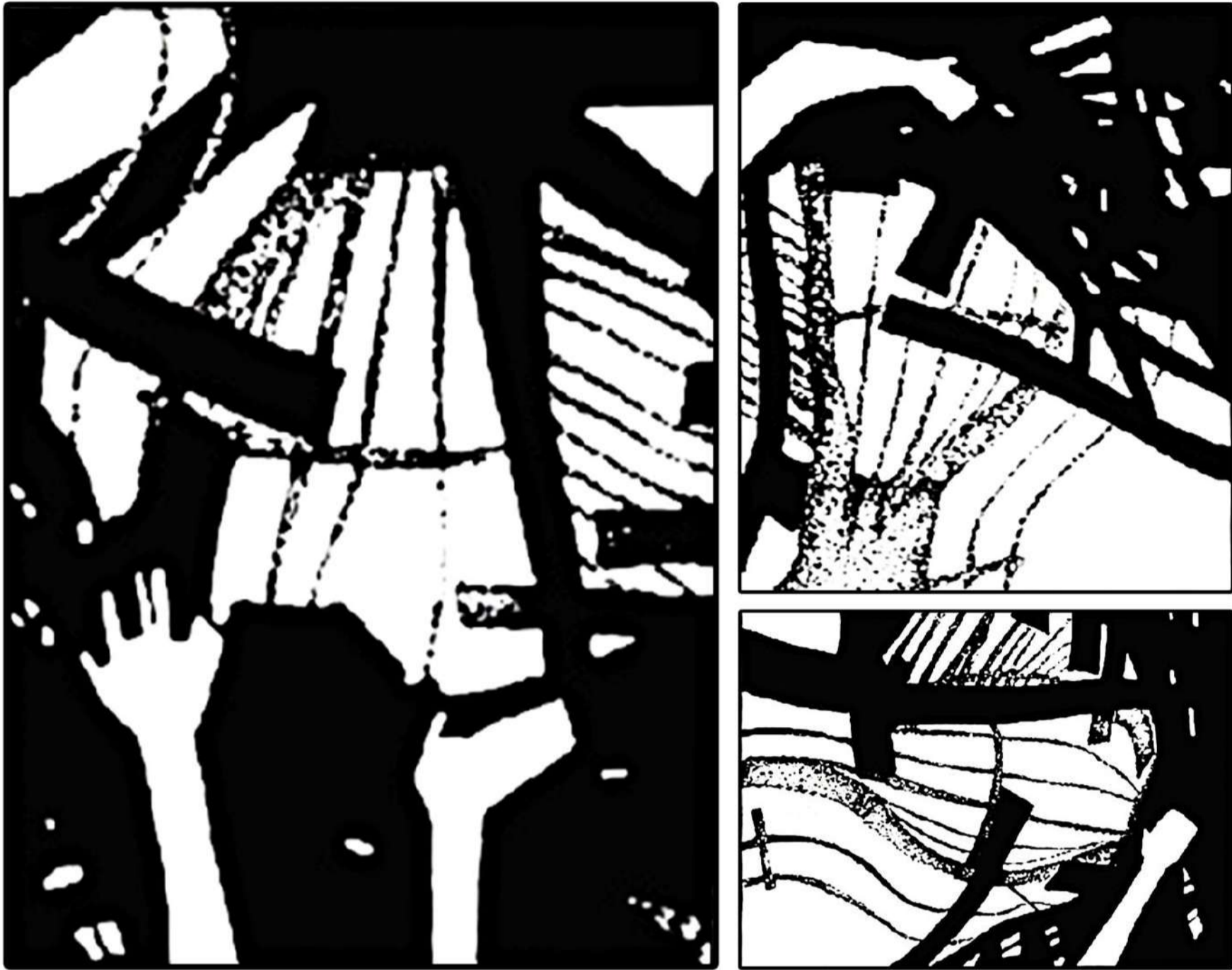
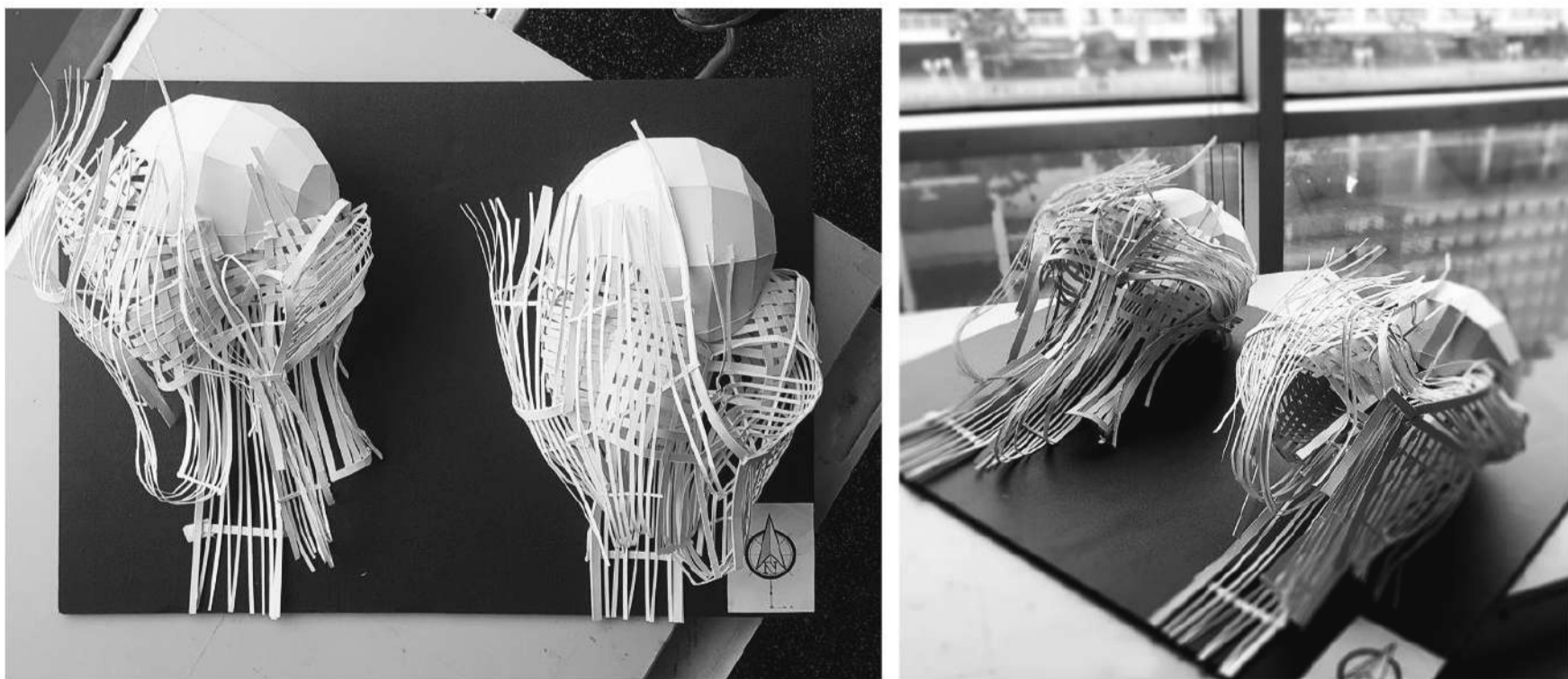


Diagram model illustrating contraction and relaxation of strips within the sphere caused by human movement

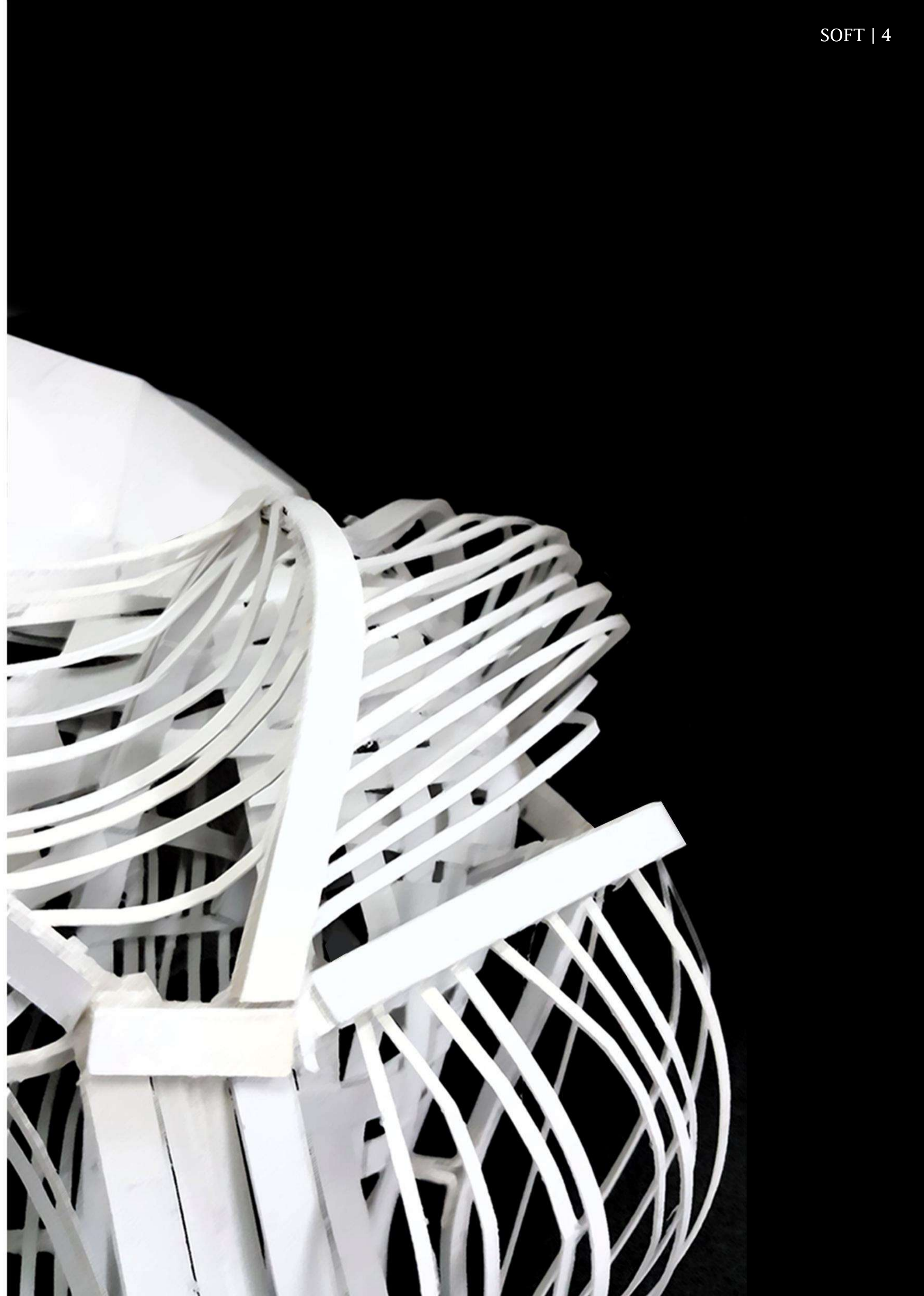




Interior Perspectives Stamps



2 study models were produced to show the possibility of changes in form based on the movement of users within. Thus, the activity of the users molds the shape of the structure instead of the other way.



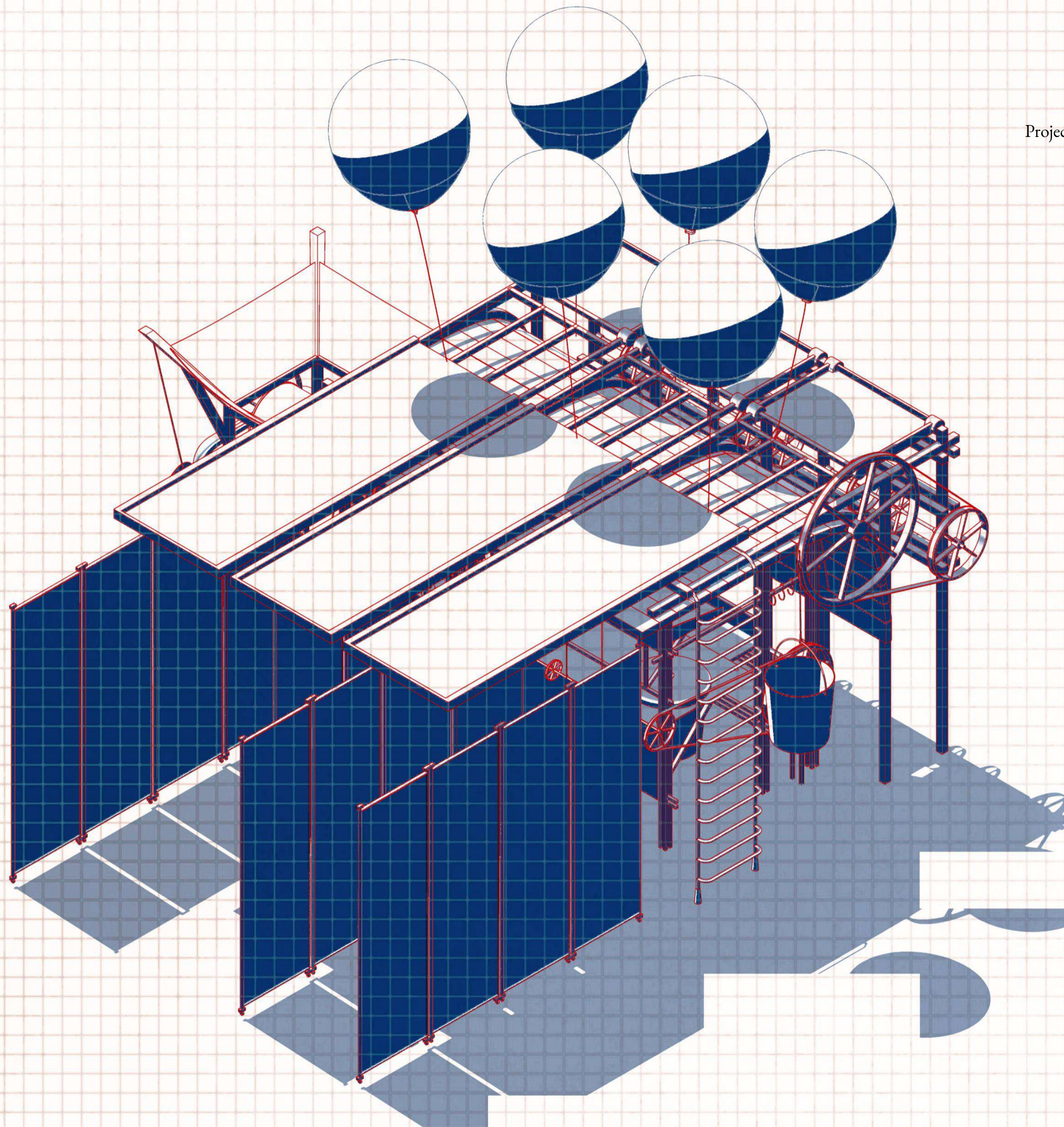
KIOSK

Project : Food & Beverage Kiosk

Size : 40m³

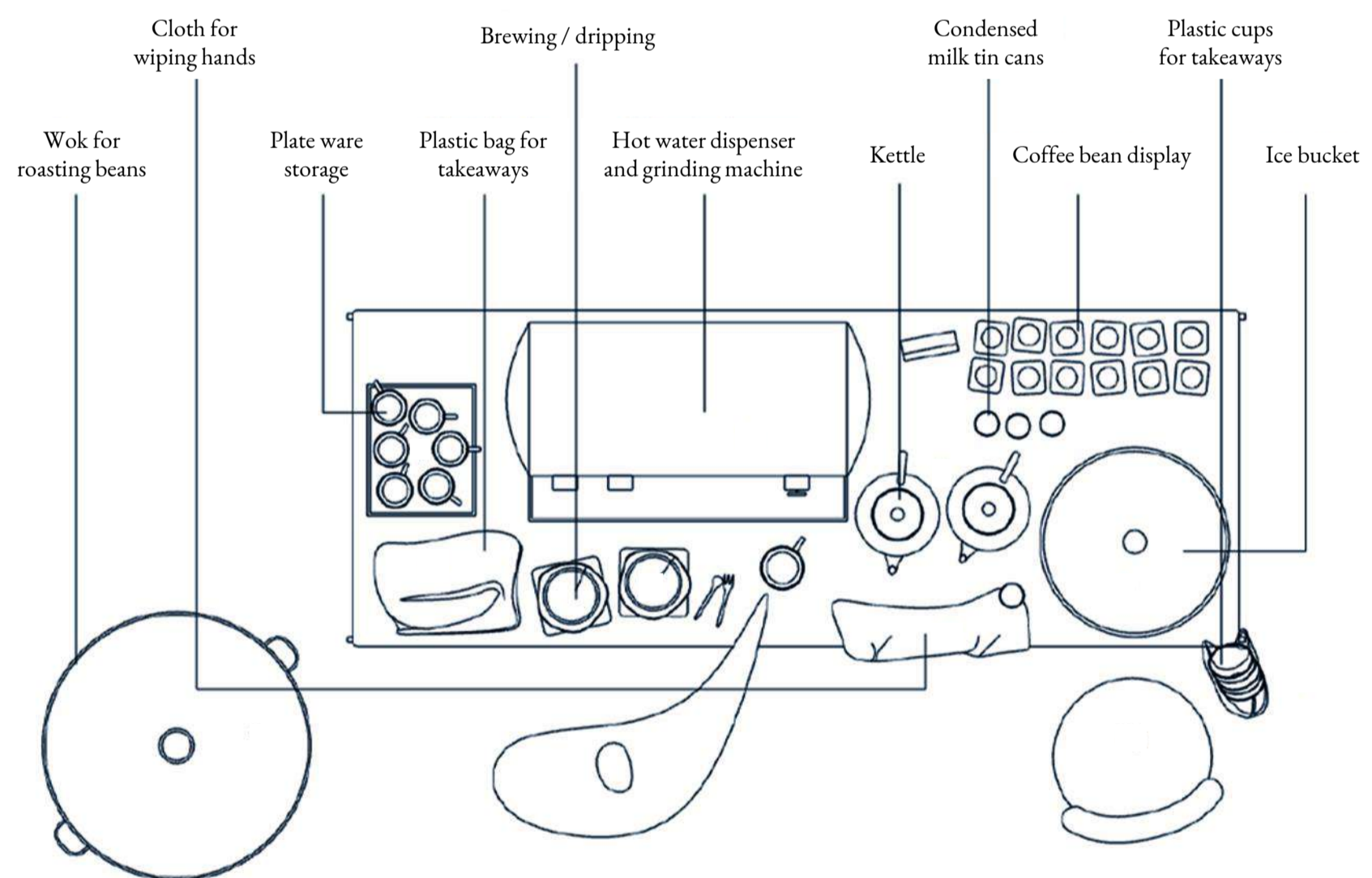
Type : Individual

Year : 2020





The traditional way of coffee making requires a series of steps including, drying, grinding, resting, roasting and brewing. The kopitiam, the traditional coffee shops in Southeast Asia, produce a great beverage for breakfast.

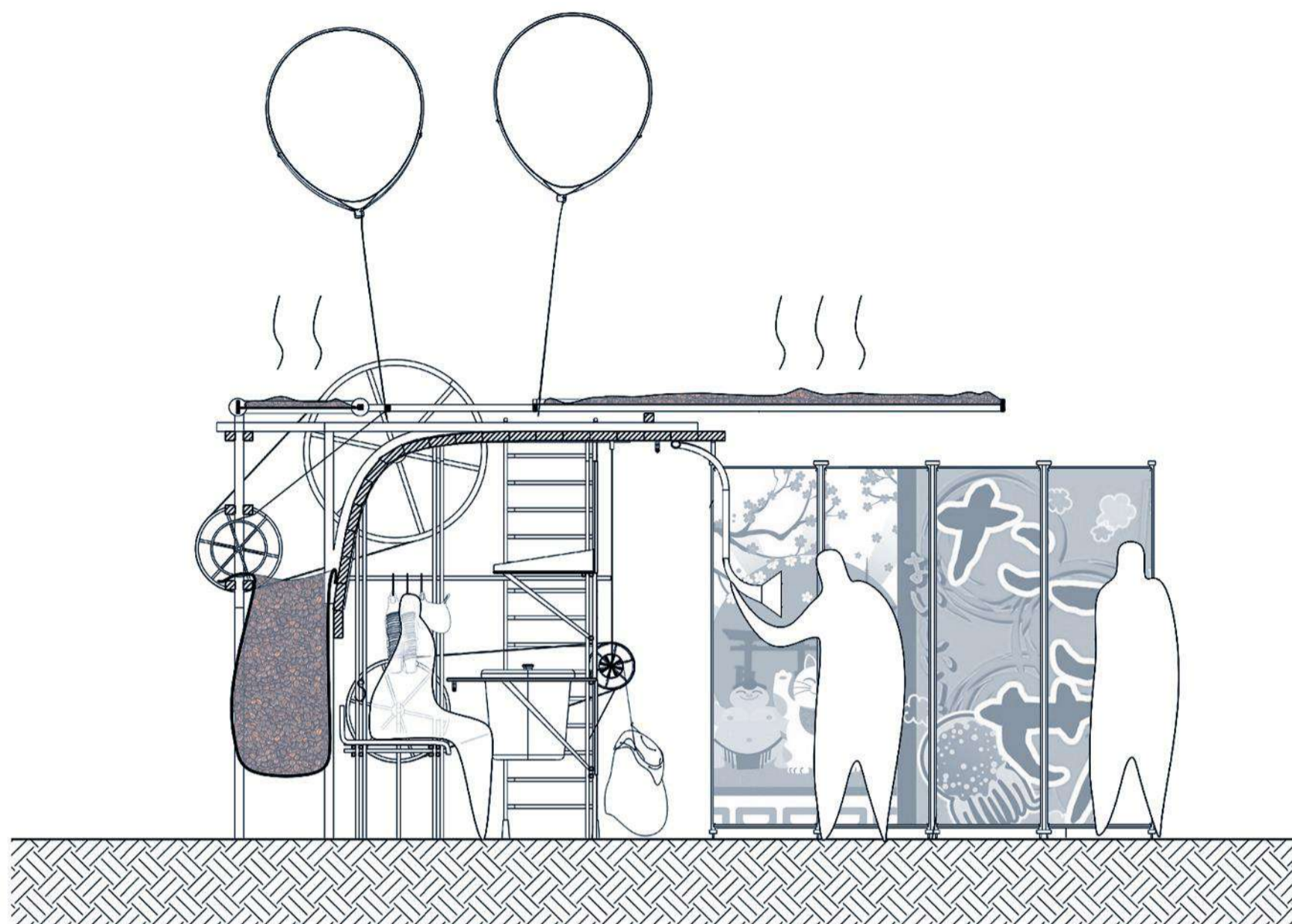


Precedence of a table plan of a coffee kiosk in Bali, Indonesia

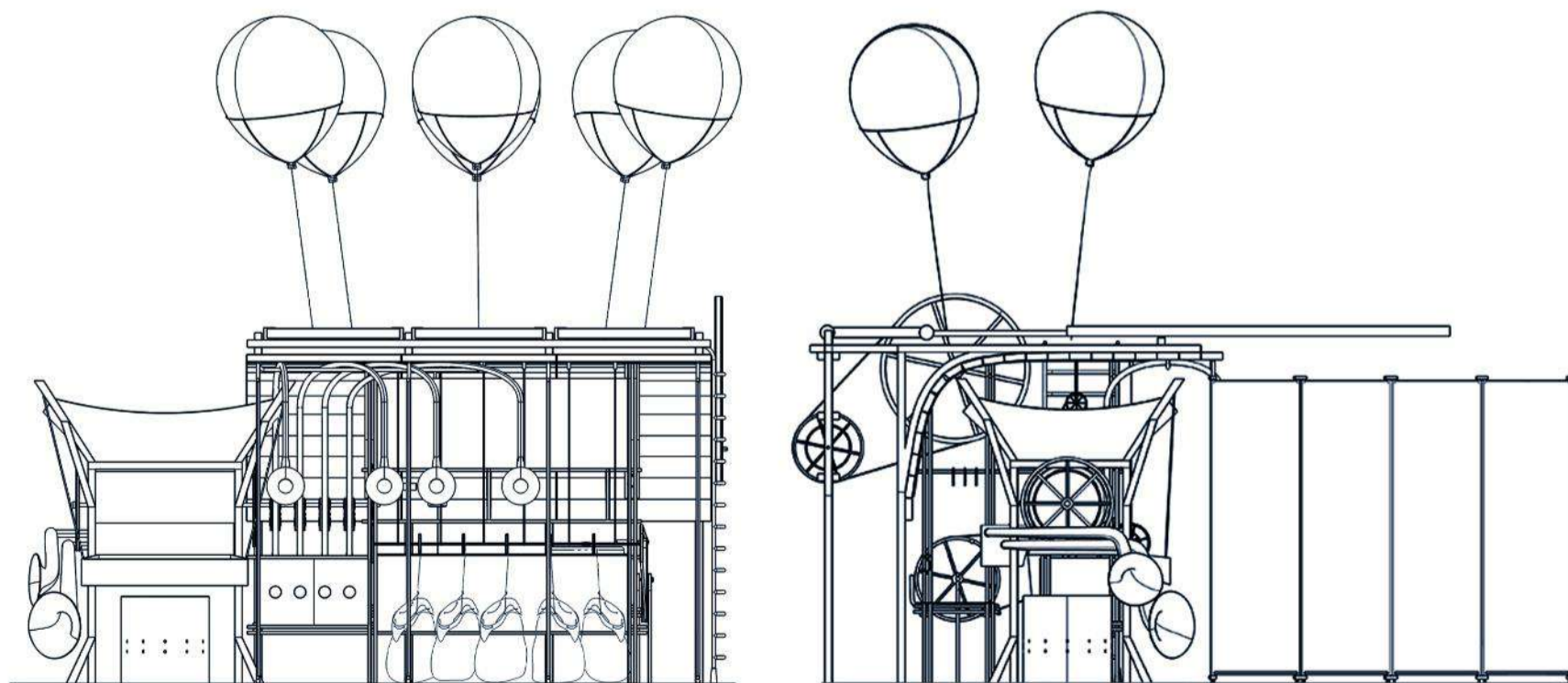


Coffee Making as a Performance

Given a size of a parking lot, I wanted to design a kiosk for my favorite beverage, coffee. The intention was to express the entire coffee making process from harvest to the product, a served drink, in a form of a performance. As it was to be in a competitive site like a street market, it possess attention seeking qualities through 5 senses; smell, see, hear, touch and taste.

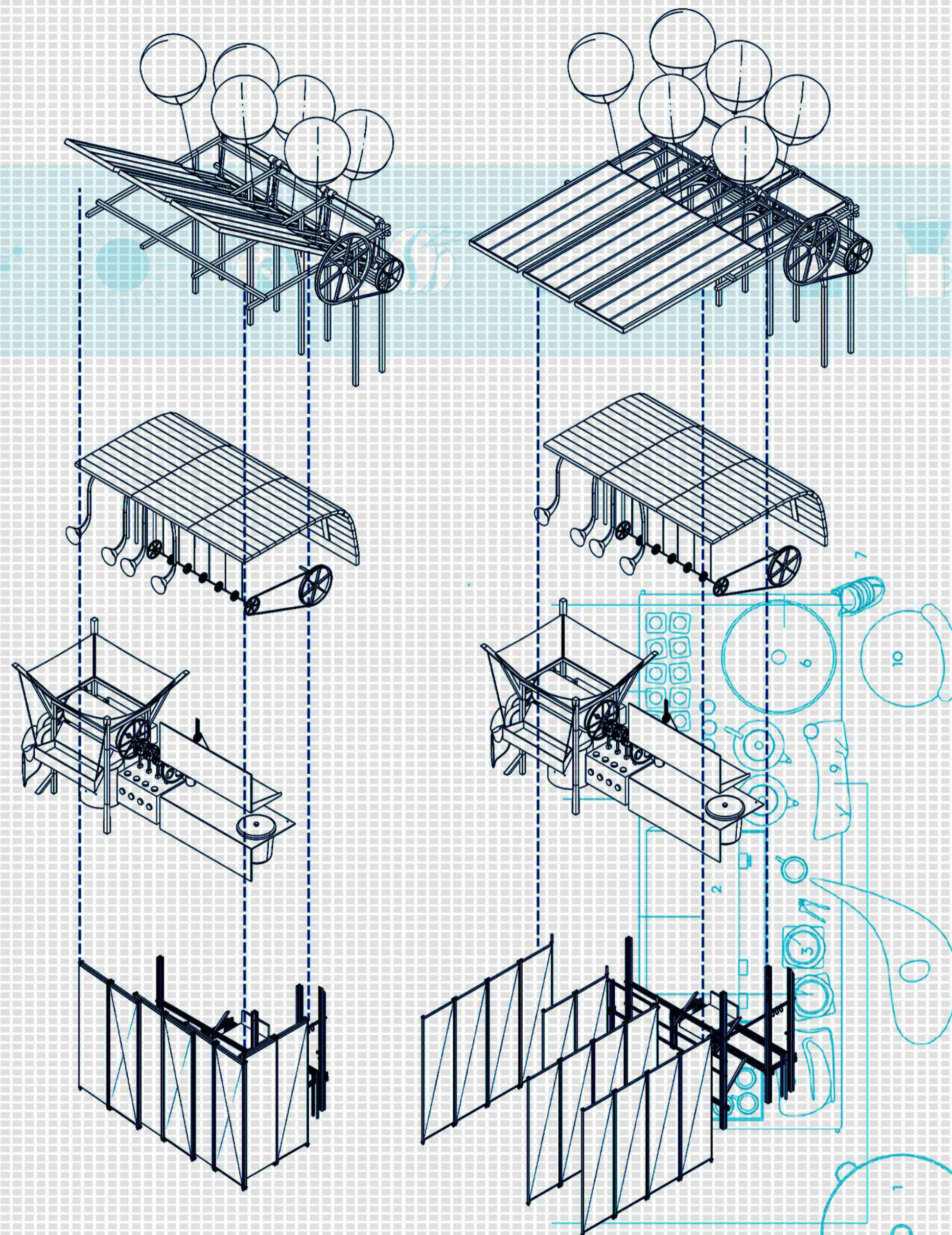


The scheme was to capture the coffee making process and highlight the process through the 5 senses. Both the tectonics and ergonomics are designed for the 5 senses. The kiosk has a mechanical finish imitating the mechanical qualities of coffee making machineries.



Front Elevation

Left Elevation



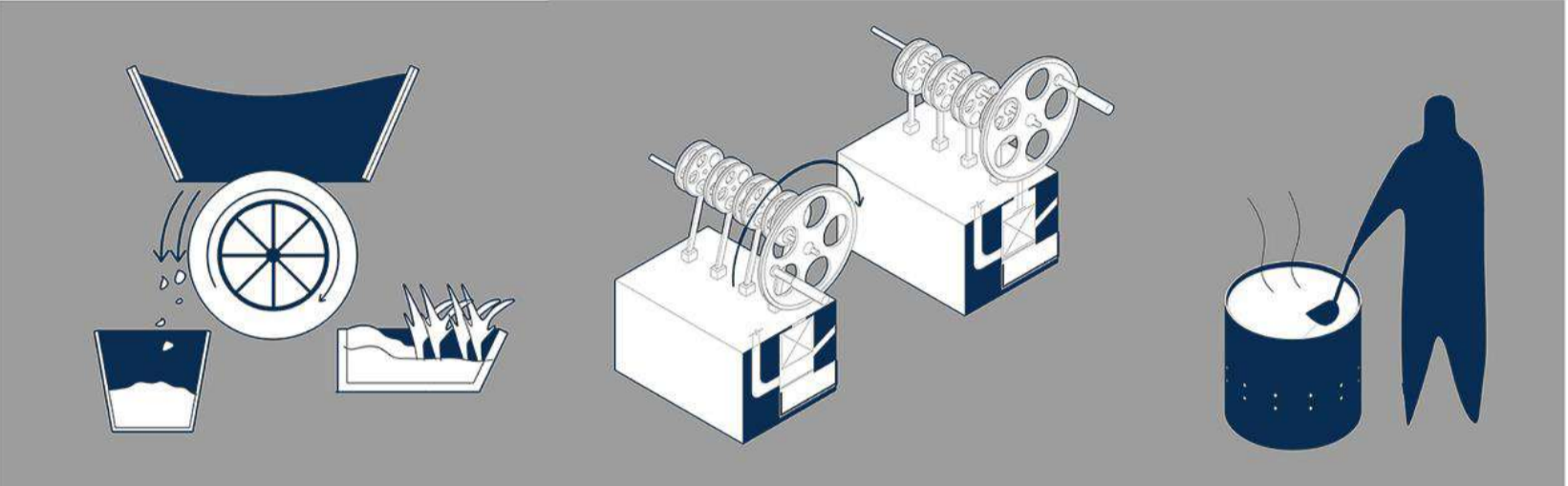
Closed: banners folded; coffee beans stored

Opened: banners opened; coffee drying

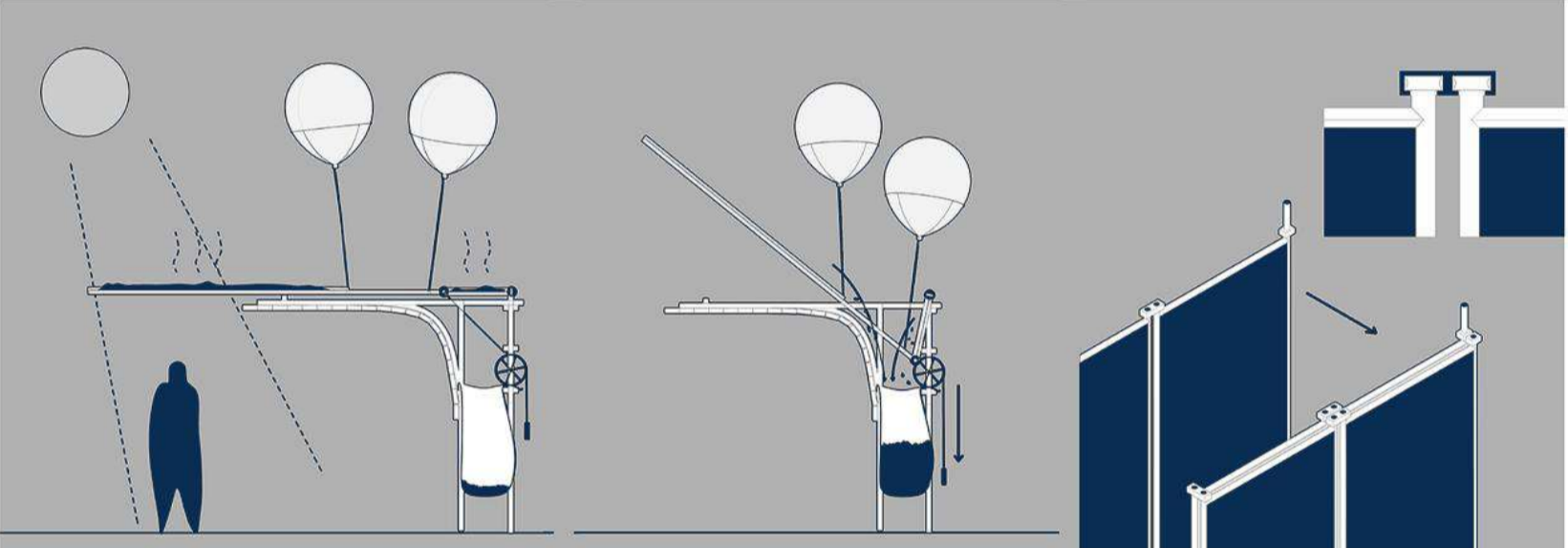
Coffee process



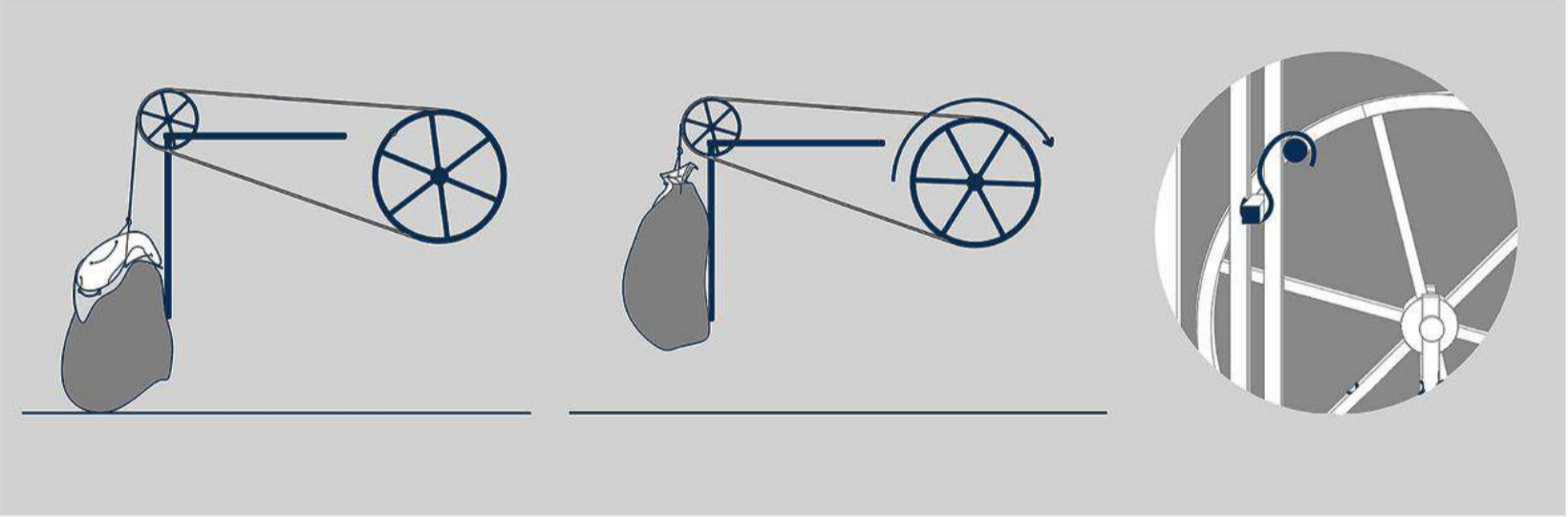
Grinding & cooking



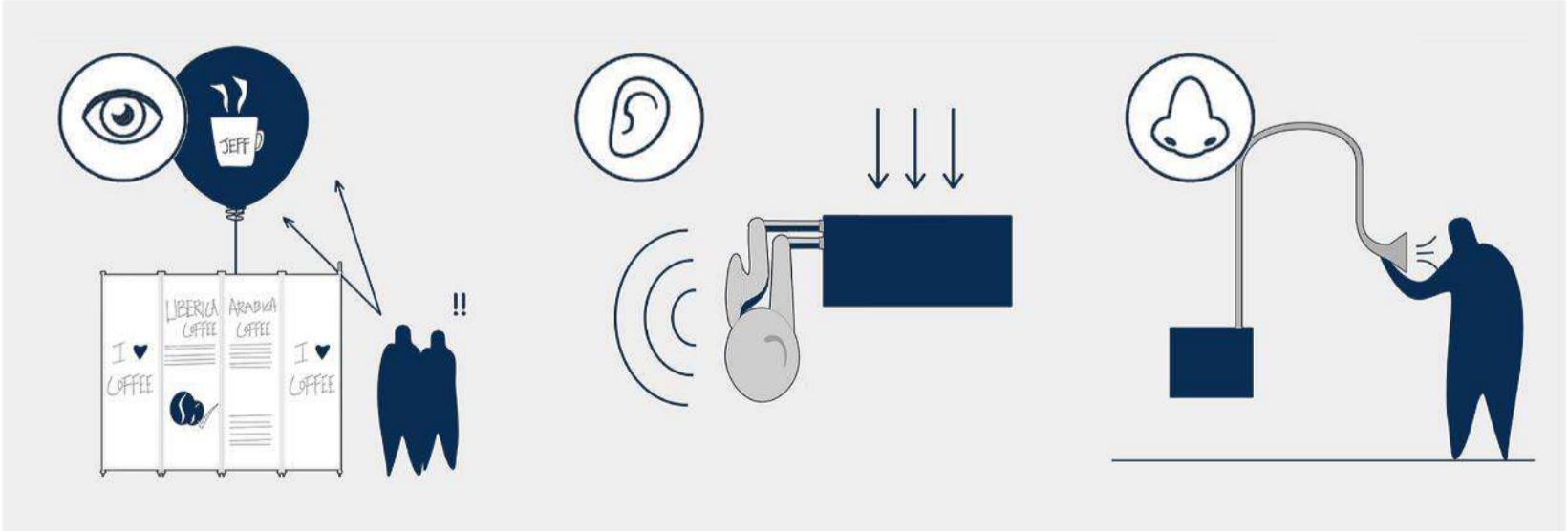
Coffee drying



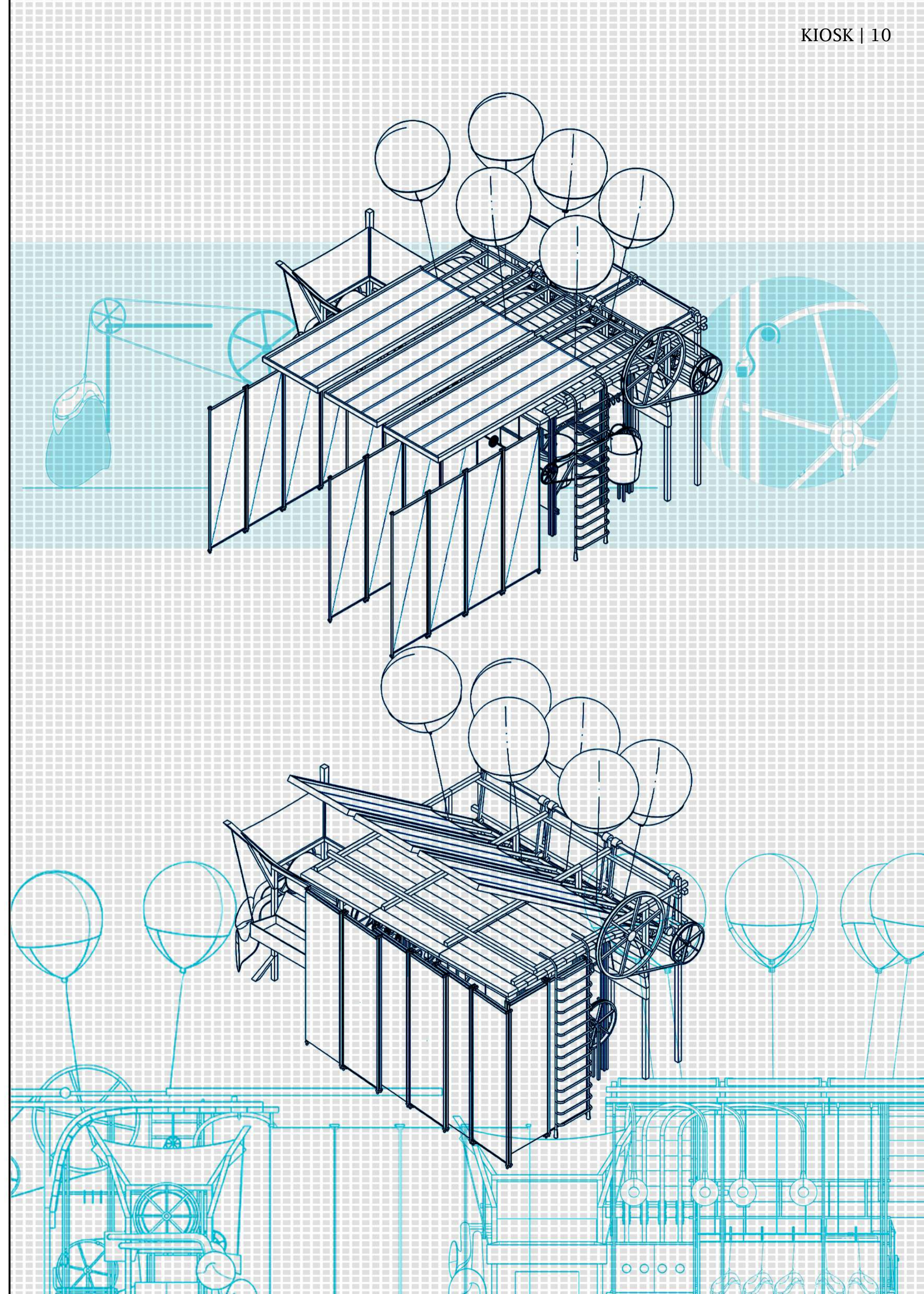
Coffee display



Attention seeking



Showcasing the transformation process



OASIS

Project : Klang Community Centre

Size : 1,700sqm

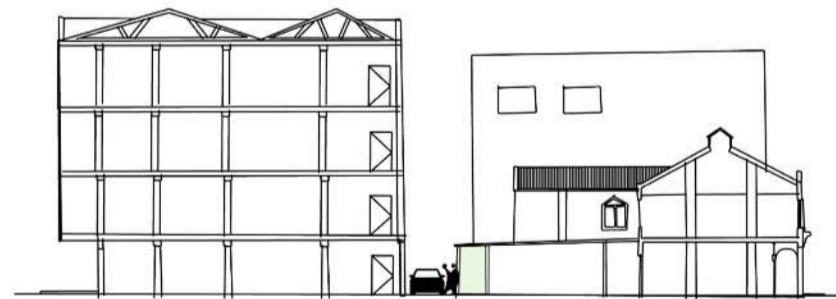
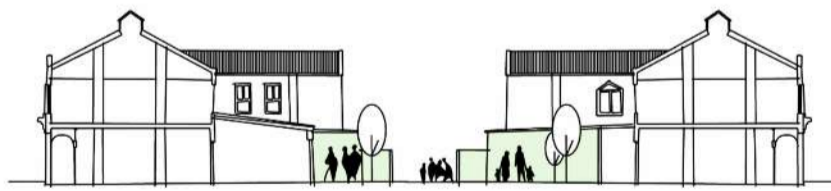
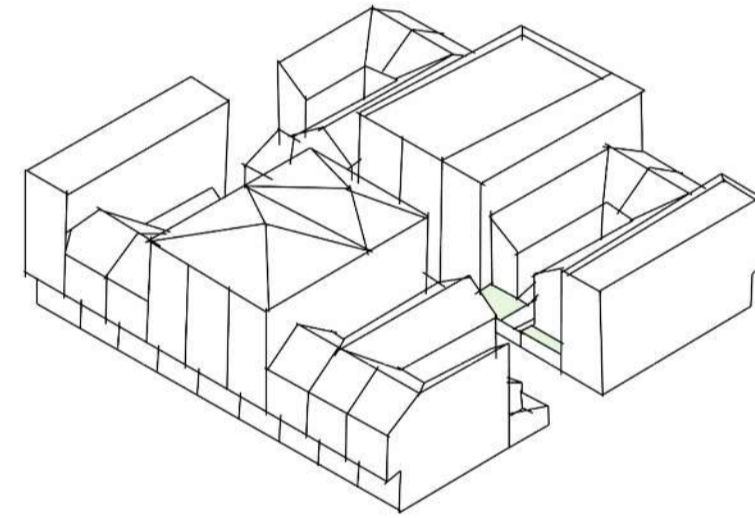
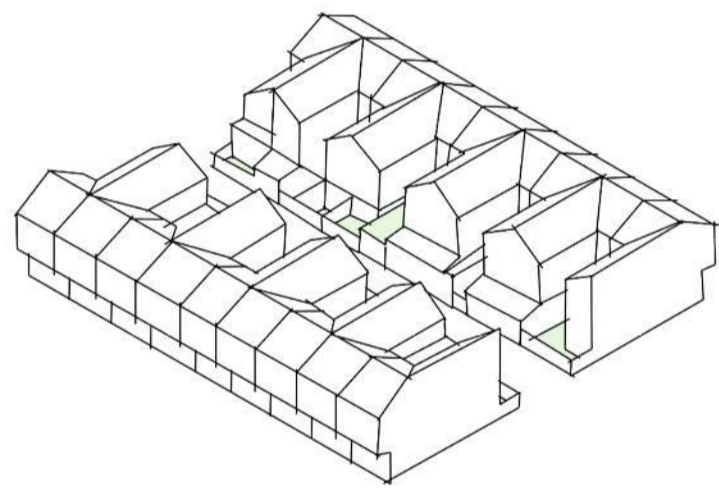
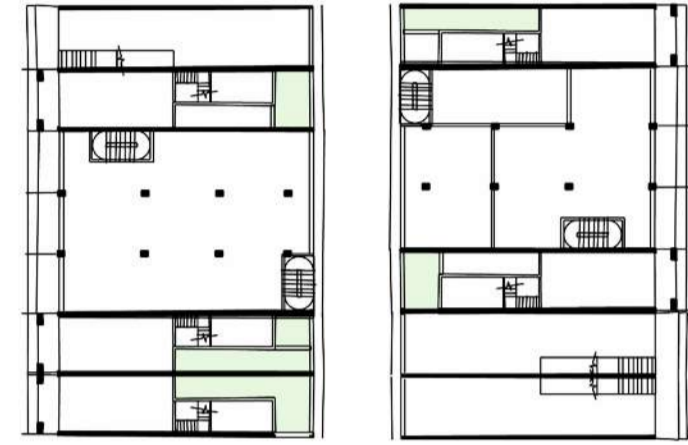
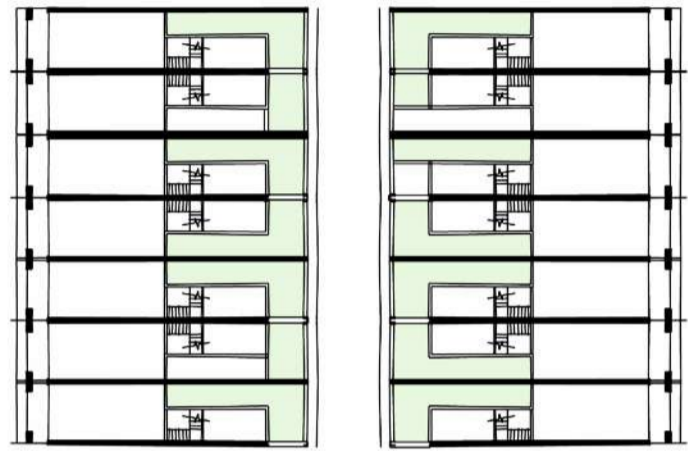
Award : Future Thinker X (Individual)

Year : 2021

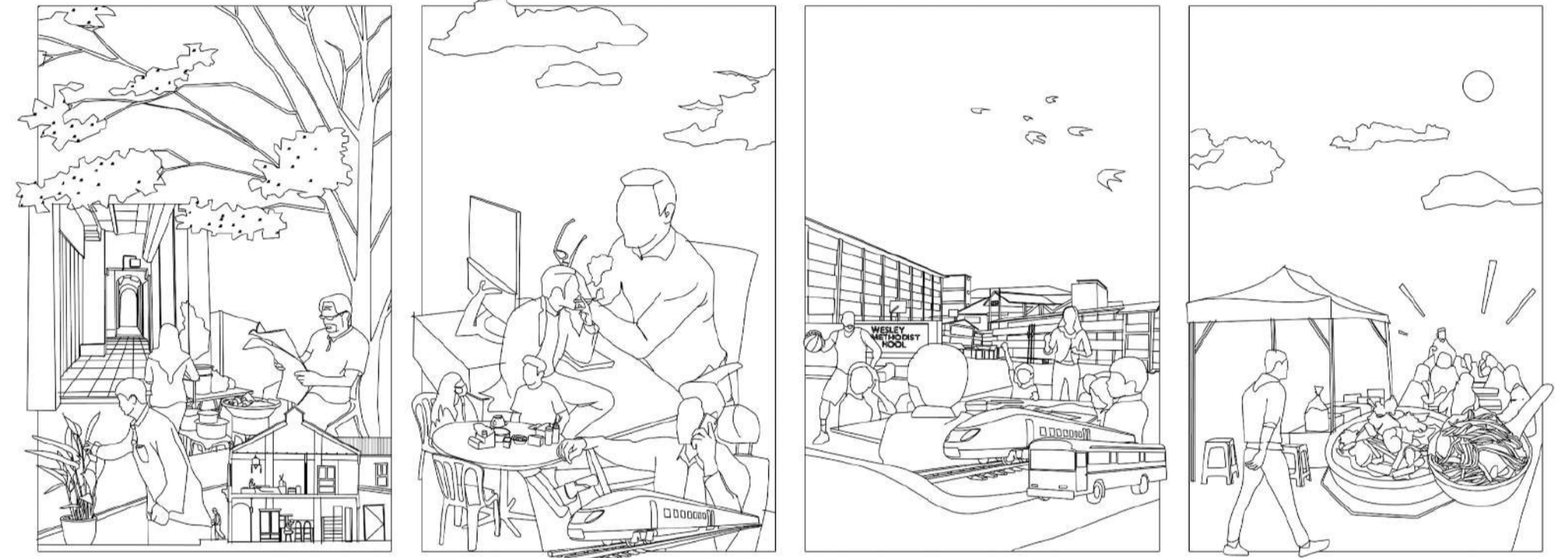


1970.

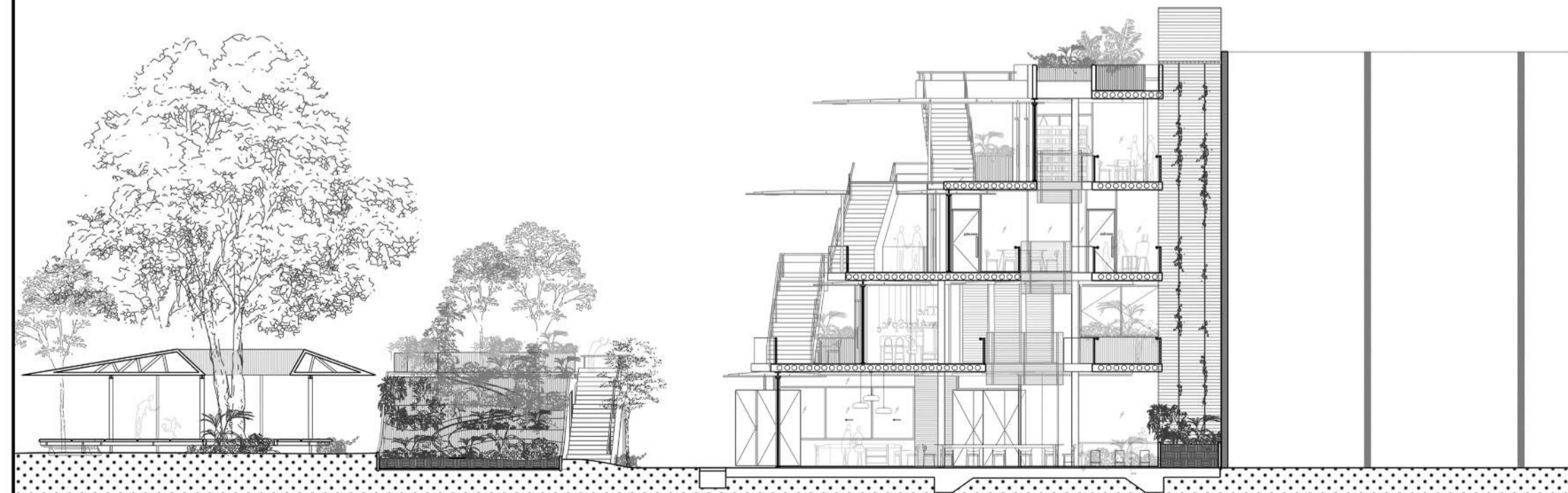
2021.



The morphological study of the Southeast Klang targets the issue of building typology and its impact to the back alley of Klang. The drawings implies the changes in urban forms throughout the decades. From L-shaped pocket yards and gardens with business and activities to tall monotonous lanes which are dangerous and unwelcoming



The legibility of Klang is reflected on the people, the activity, and the setting. The 'people' refers to the user groups on site; the 'activities' refers to the food and fabric & textile business around the site; the 'setting' refers to the architecture, the street and its texture.

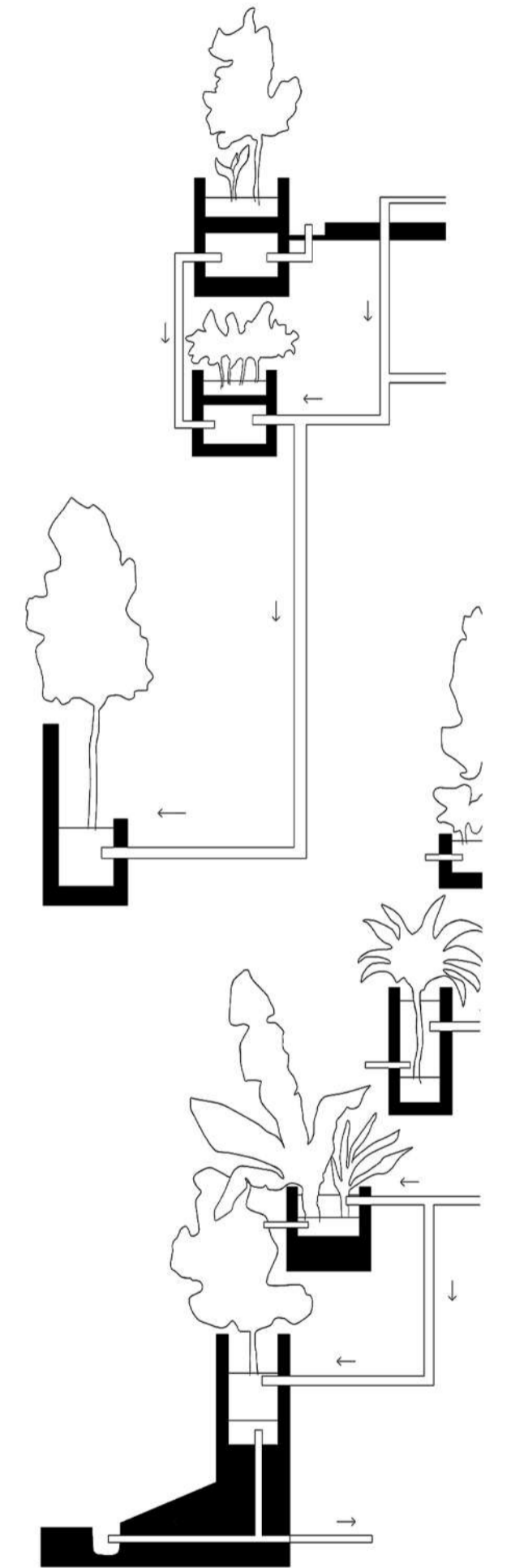
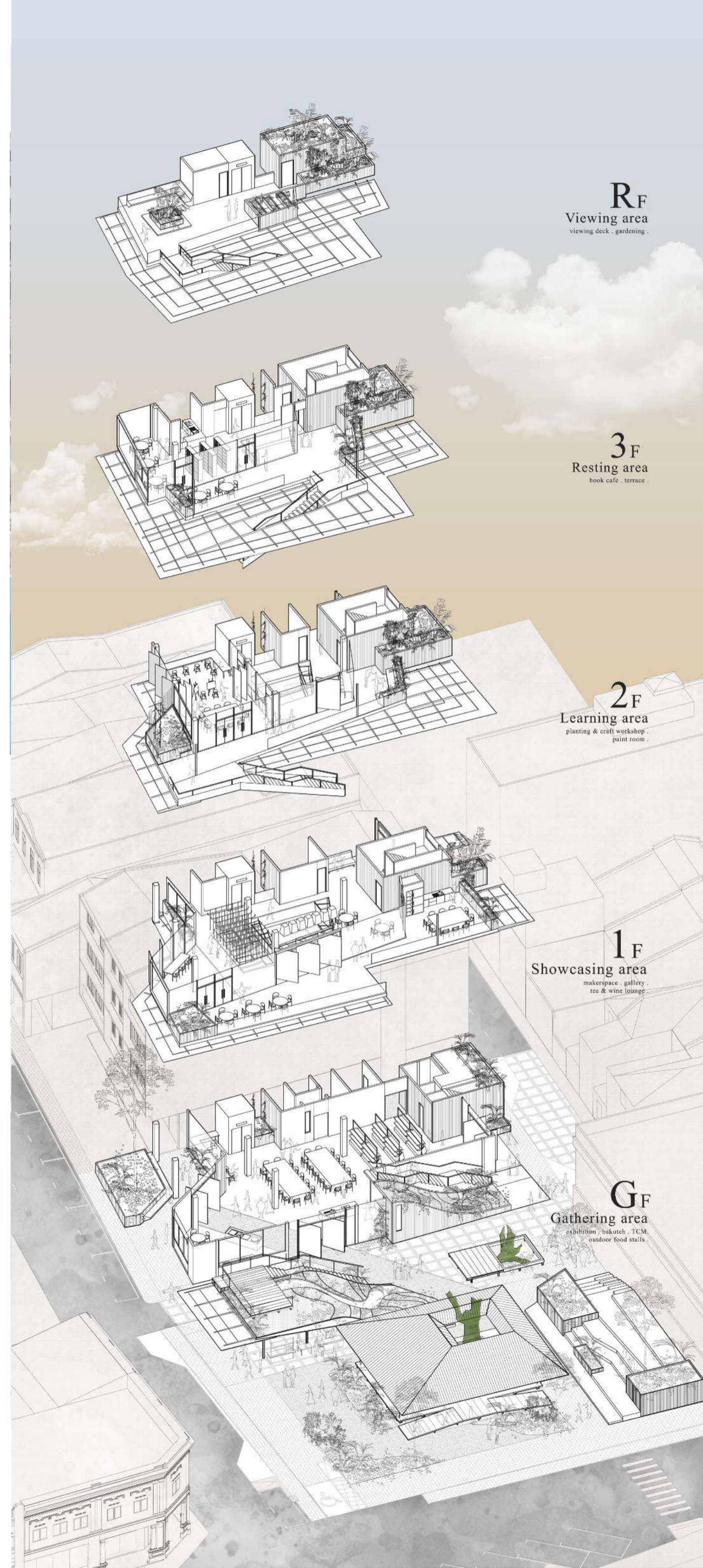




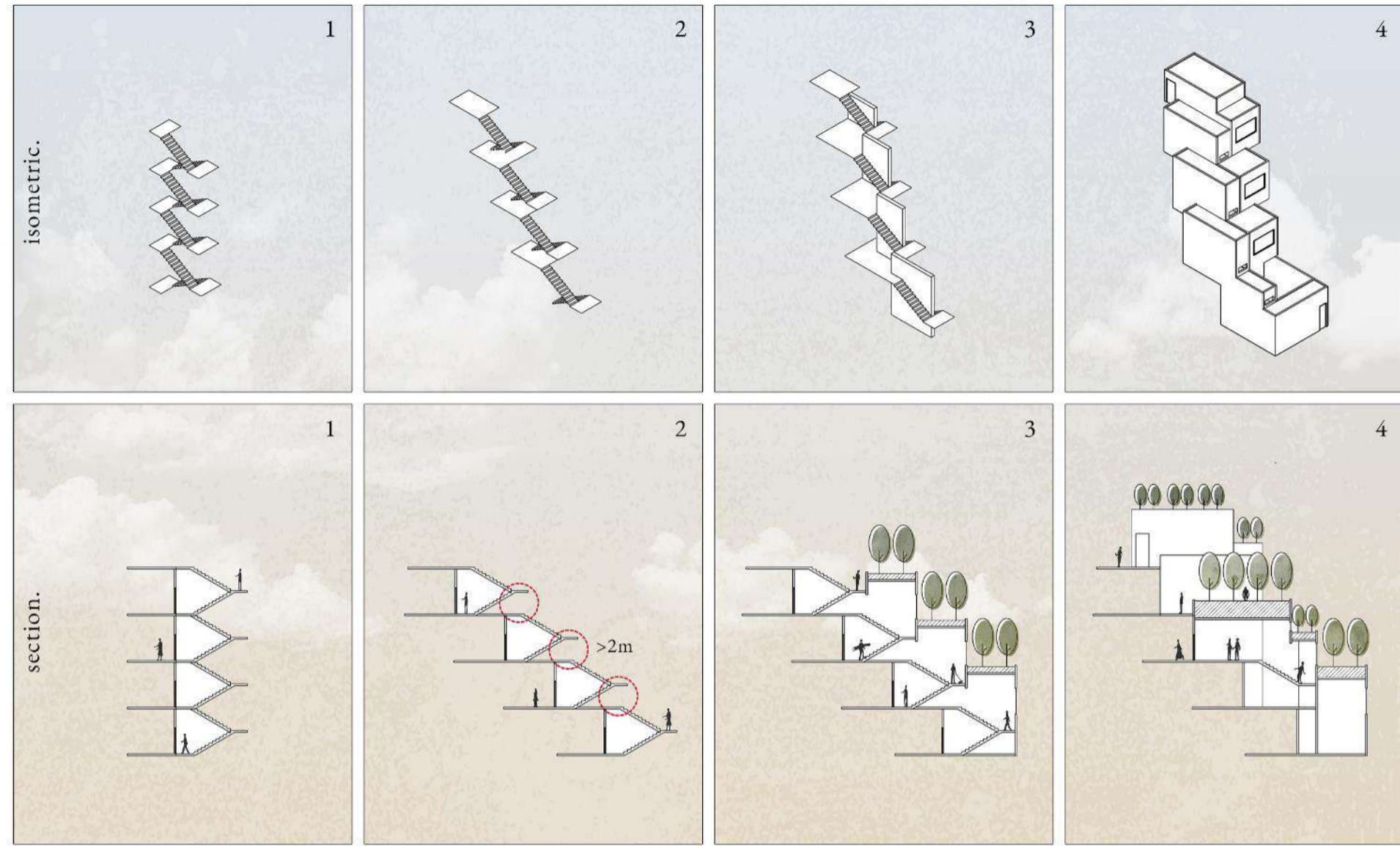
Aerial View – situated within Jalan Besar, Klang



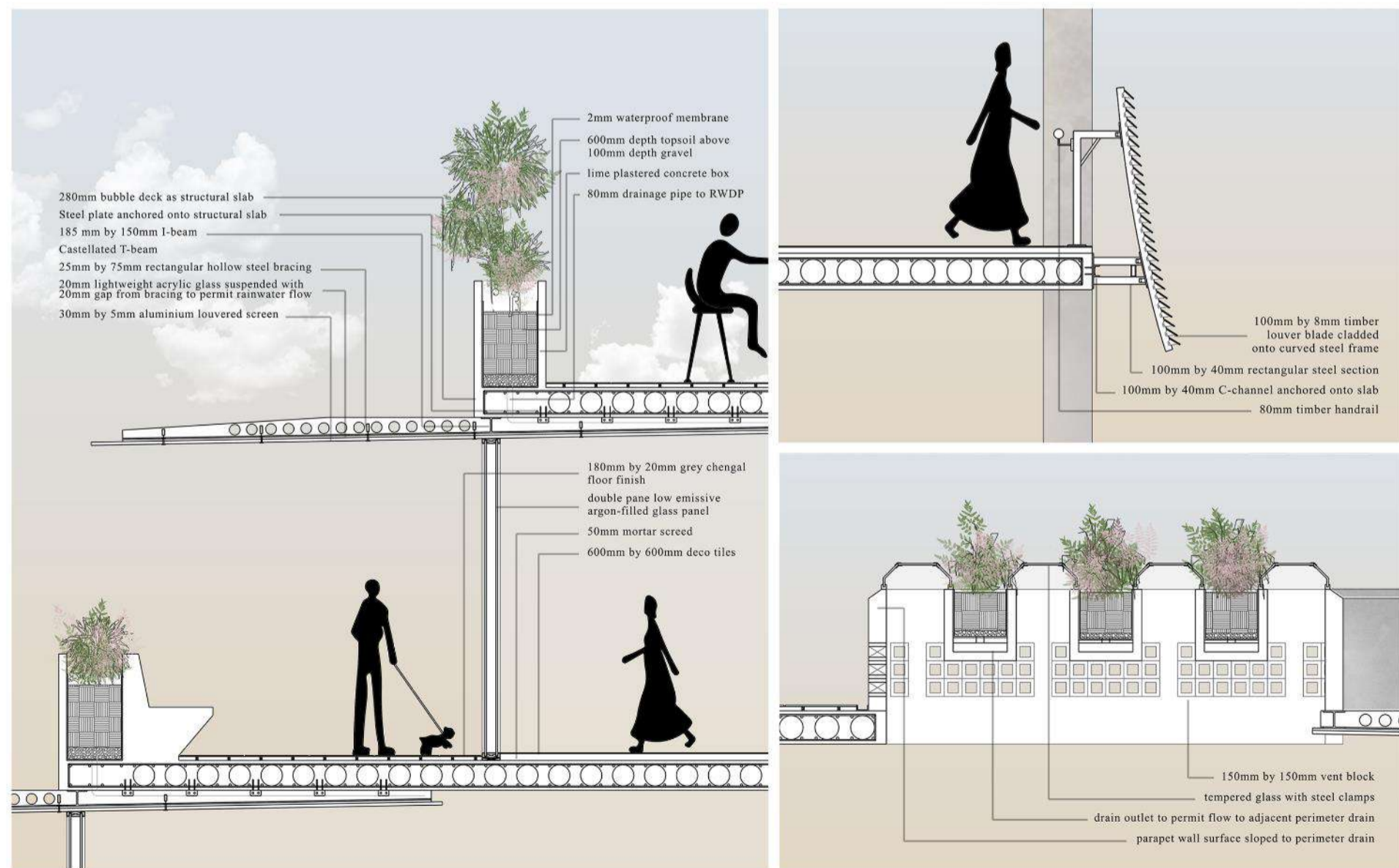
A catalyst was needed to preserve, revive, and highlight the existing elements of the site. Thus, the project was design with the intention to preserve the two existing weeping fig trees on site, the existing cendol store, the oldest Bakuteh shop, the traditional Chinese drug store; then to highlight and showcase them.



Drawings of rainwater harvesting system and recycling drainage systems integrated with the cascading planter boxes.



Transfer Staircase - Process Diagram achieving the cascading form



Detail Drawings



INTERLACE

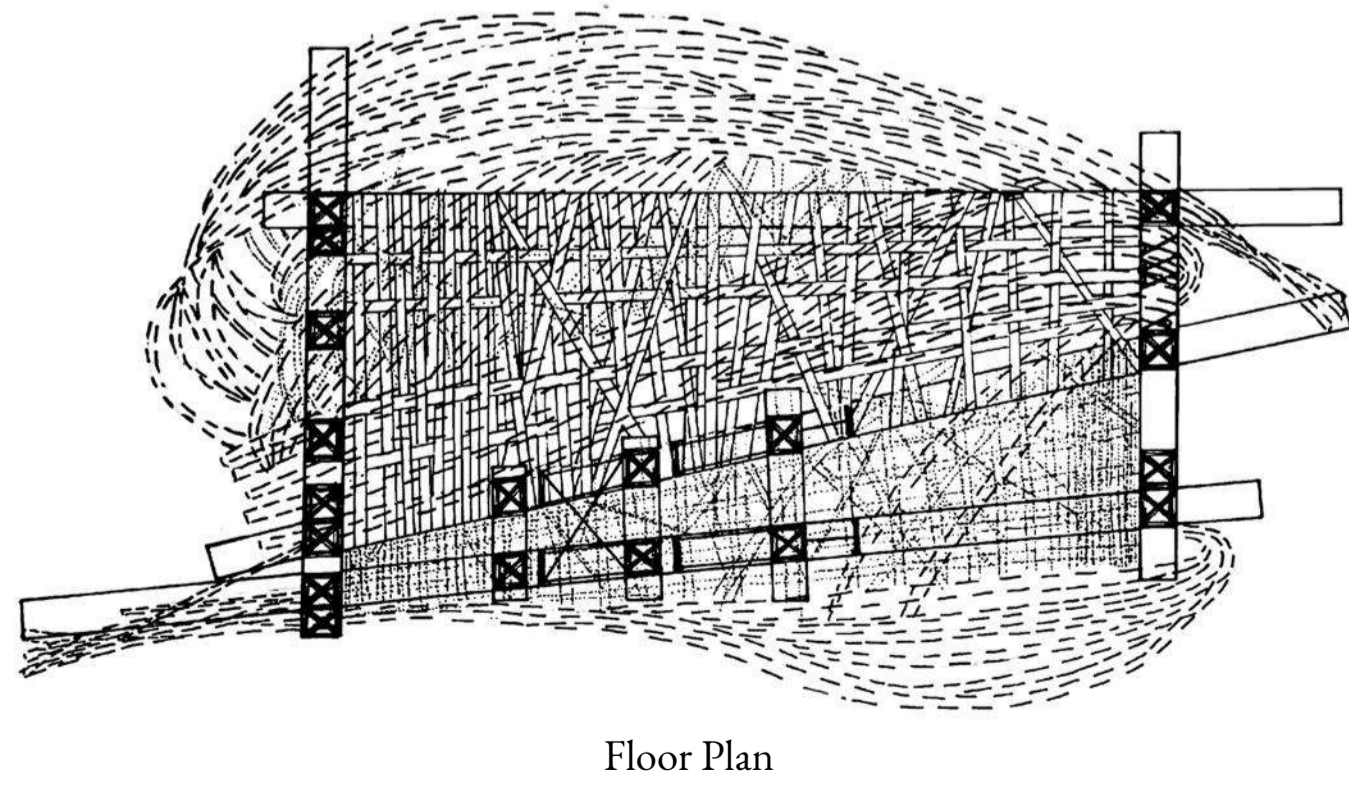
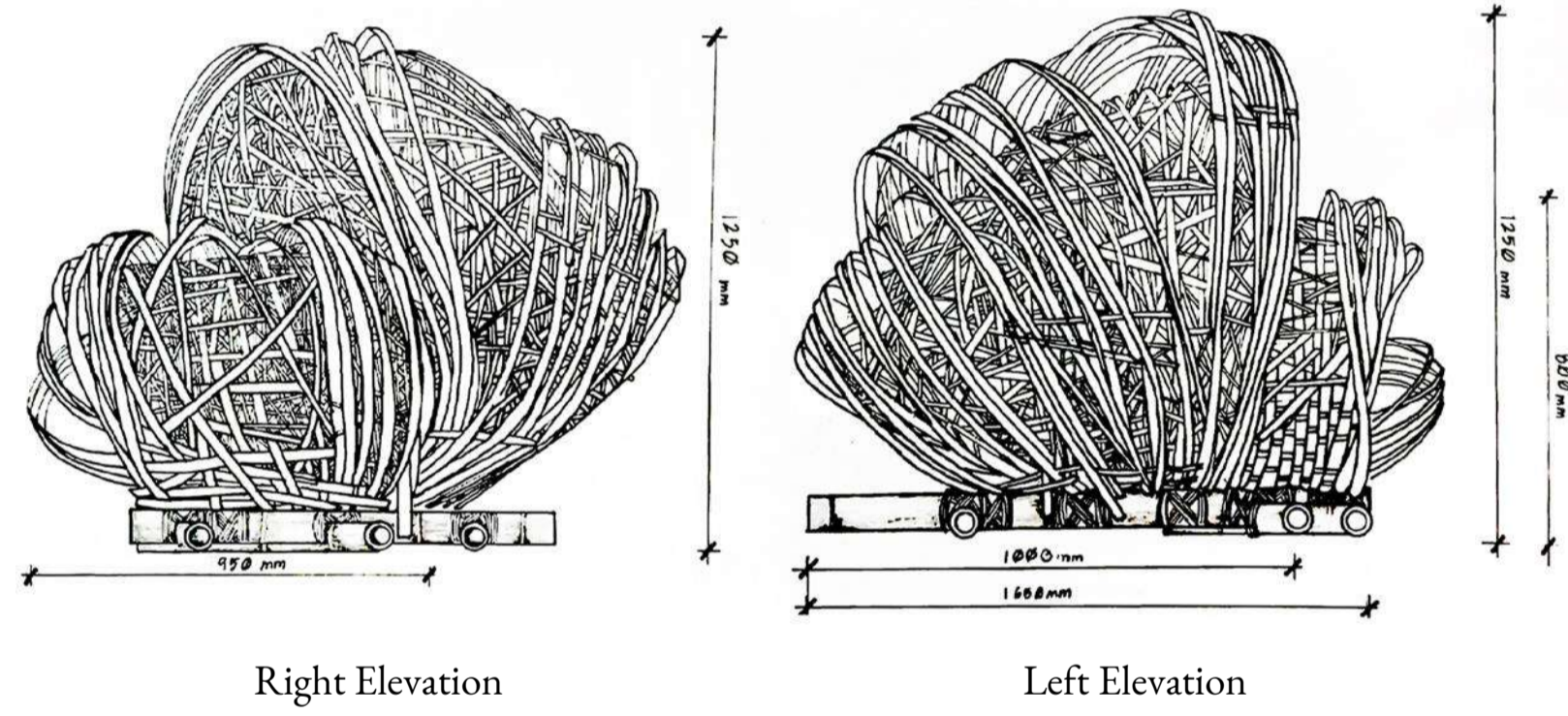
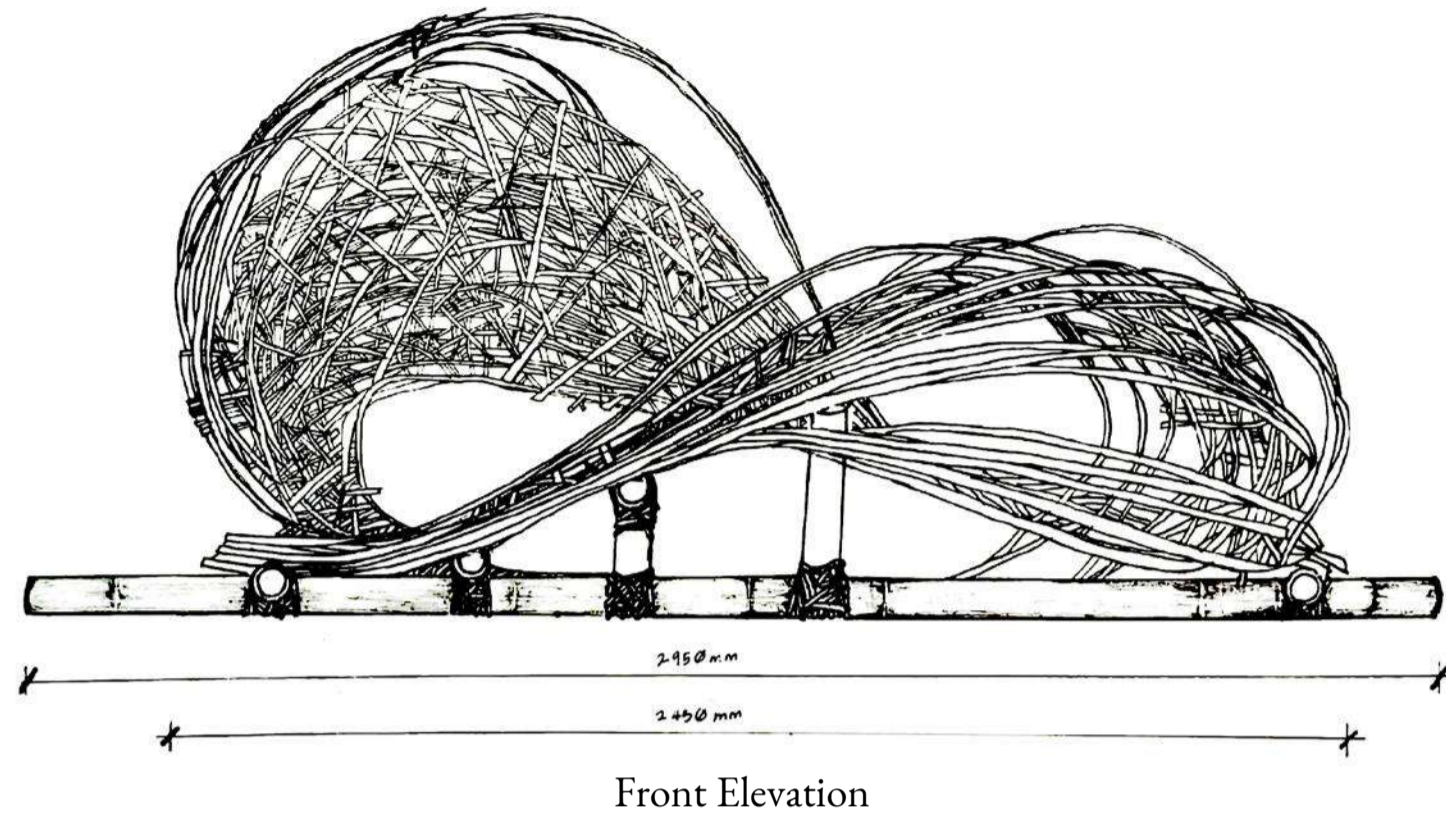
Project : Bamboo Installation Project

Size : 9m3

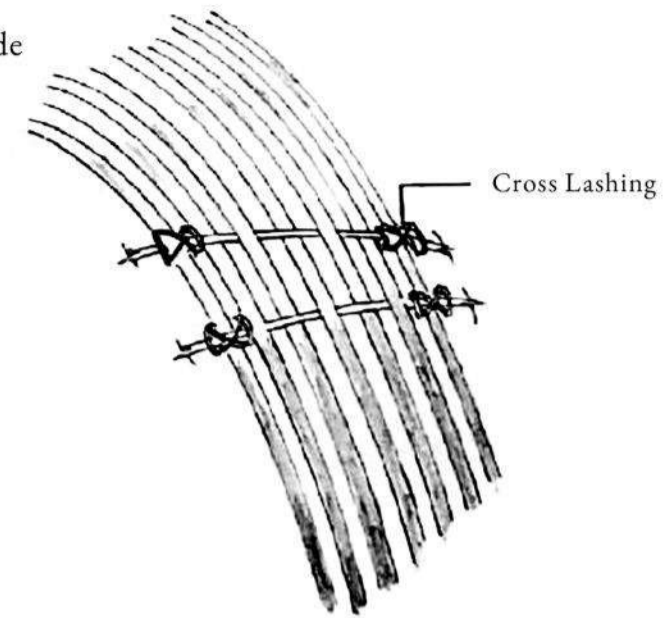
Event : BambooArk @ KLAF 2019 (Group)

Year : 2019

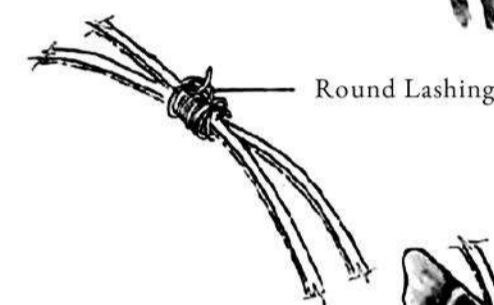




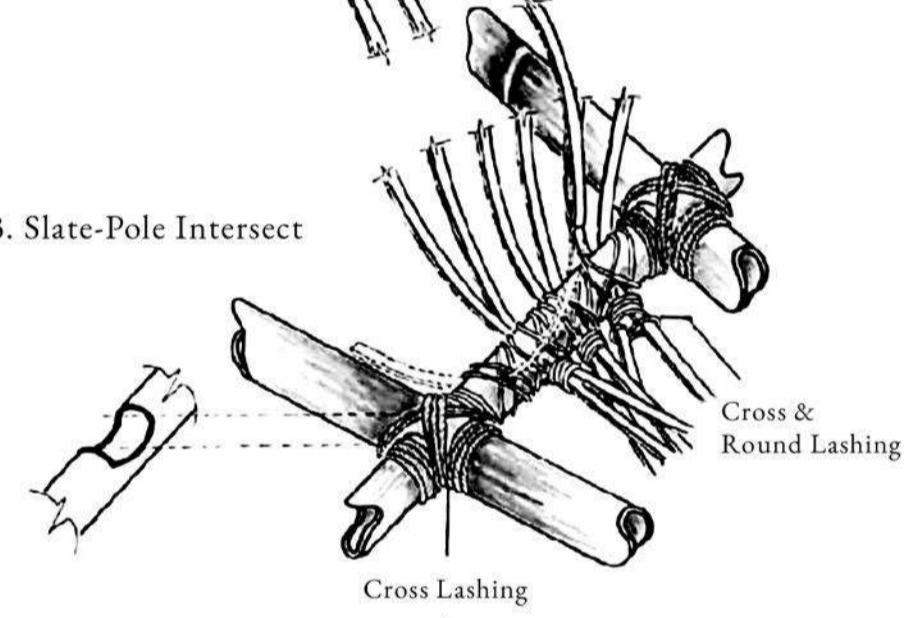
1. Upper Facade Holder



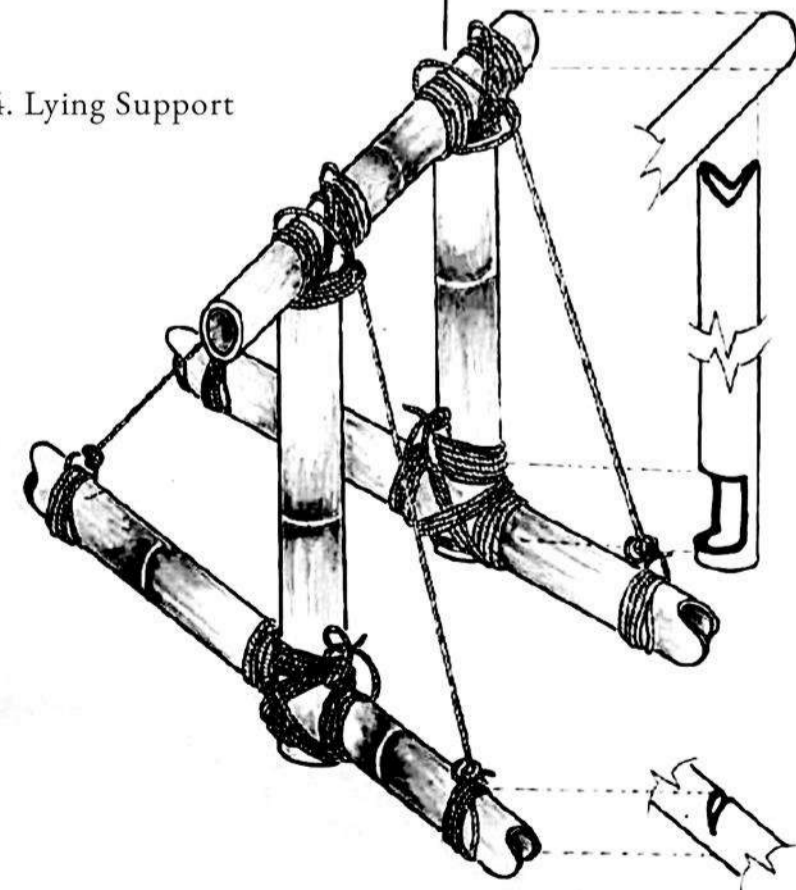
2. Slate Cross



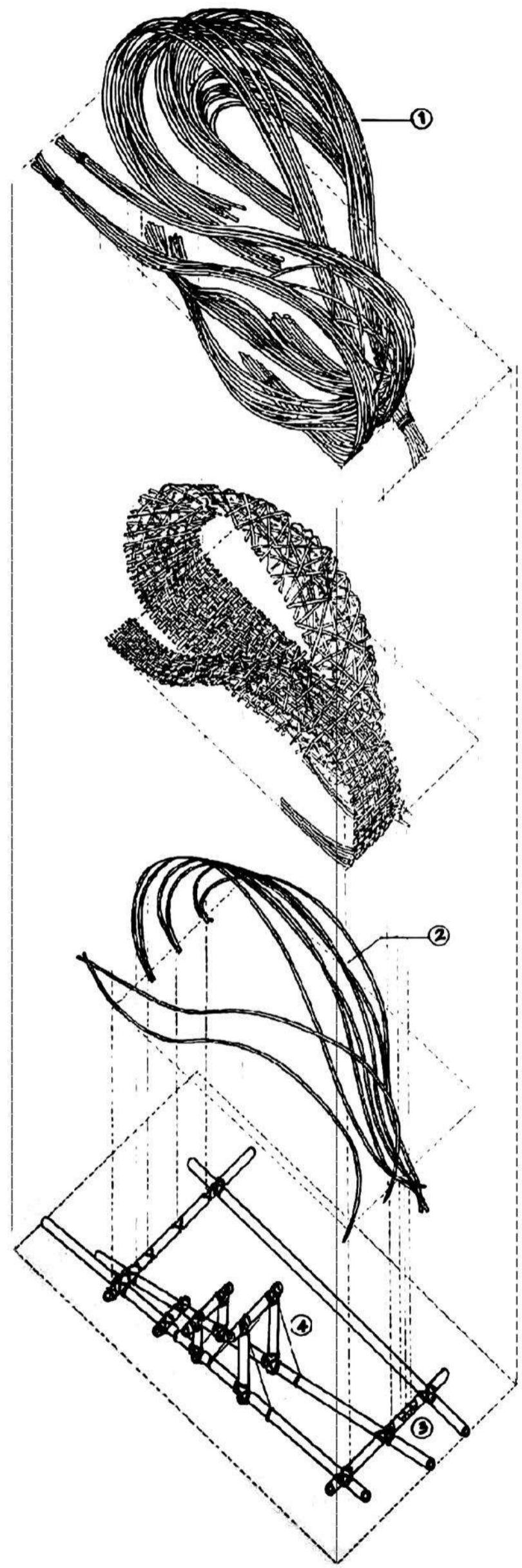
3. Slate-Pole Intersect



4. Lying Support



Bamboo connection details & tectonics



Exploded Axonometric

POLE TRIMMING



SLAT SPLINE STRUCTURE



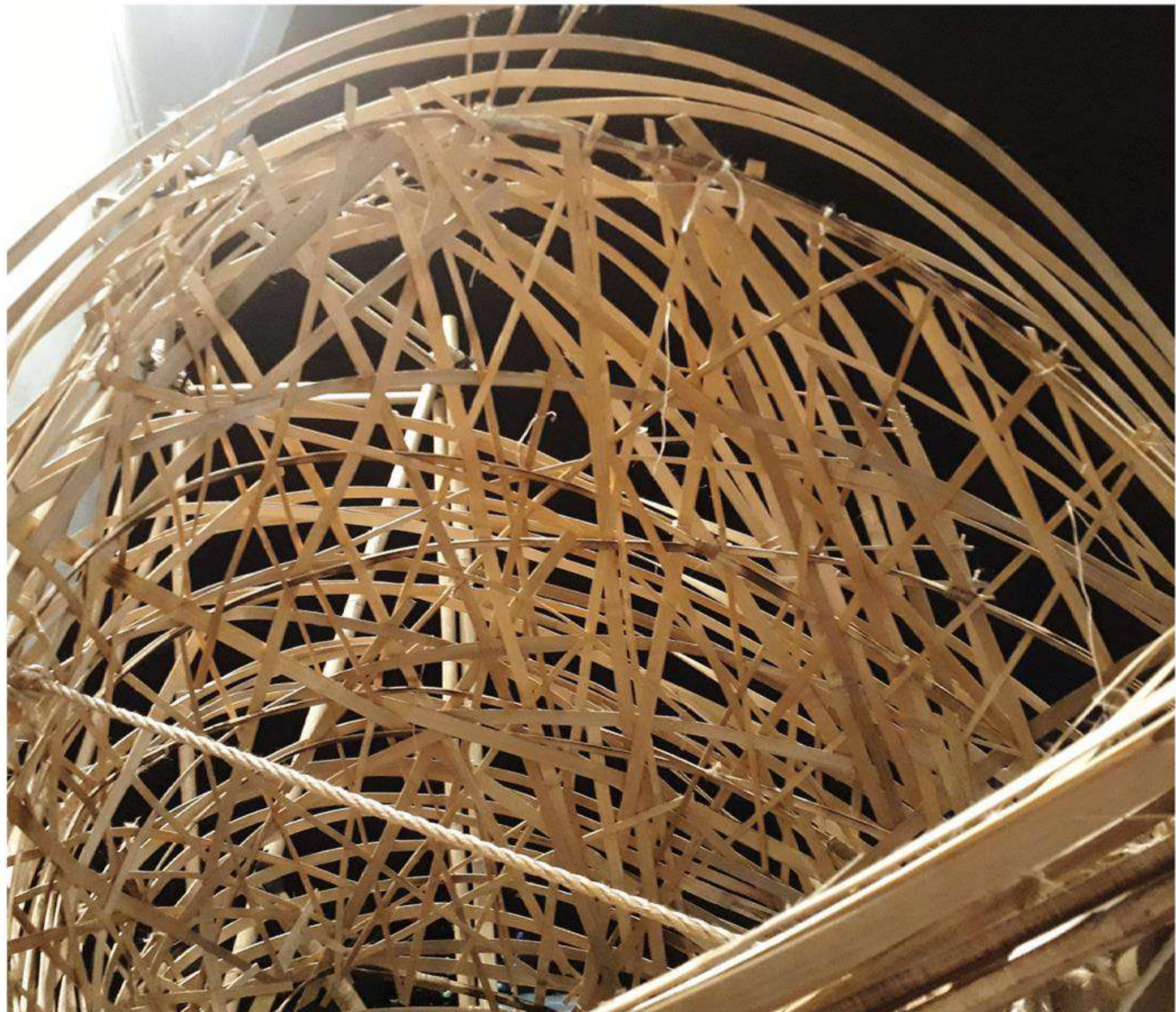
PRIMARY WEAVING



SECONDARY FACADE



Through several series of workshops and interaction, we managed to erect the structure within the given period. Some of us were tasked to split the bamboo in the workshop while the others began setting up the spline. Thankfully, the structure stood solidly and was constructed within a short period of time.



Achieving the curve form was quite a challenge as we were no familiar with the bamboo material and since this was our first time dealing with Ito1 scale projects. Several bamboo splines stripped from the bamboo stem were used as the main supporting structure while the overall façade and cushion of the seating was constructed with the bamboo strips.



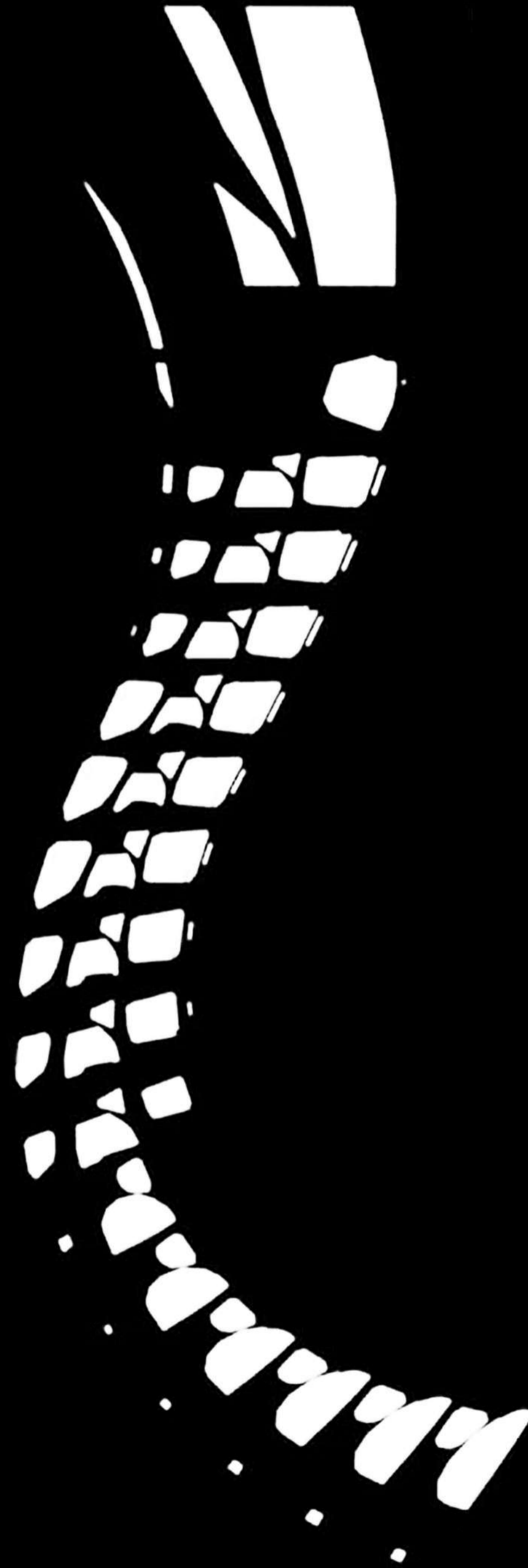
PURGE

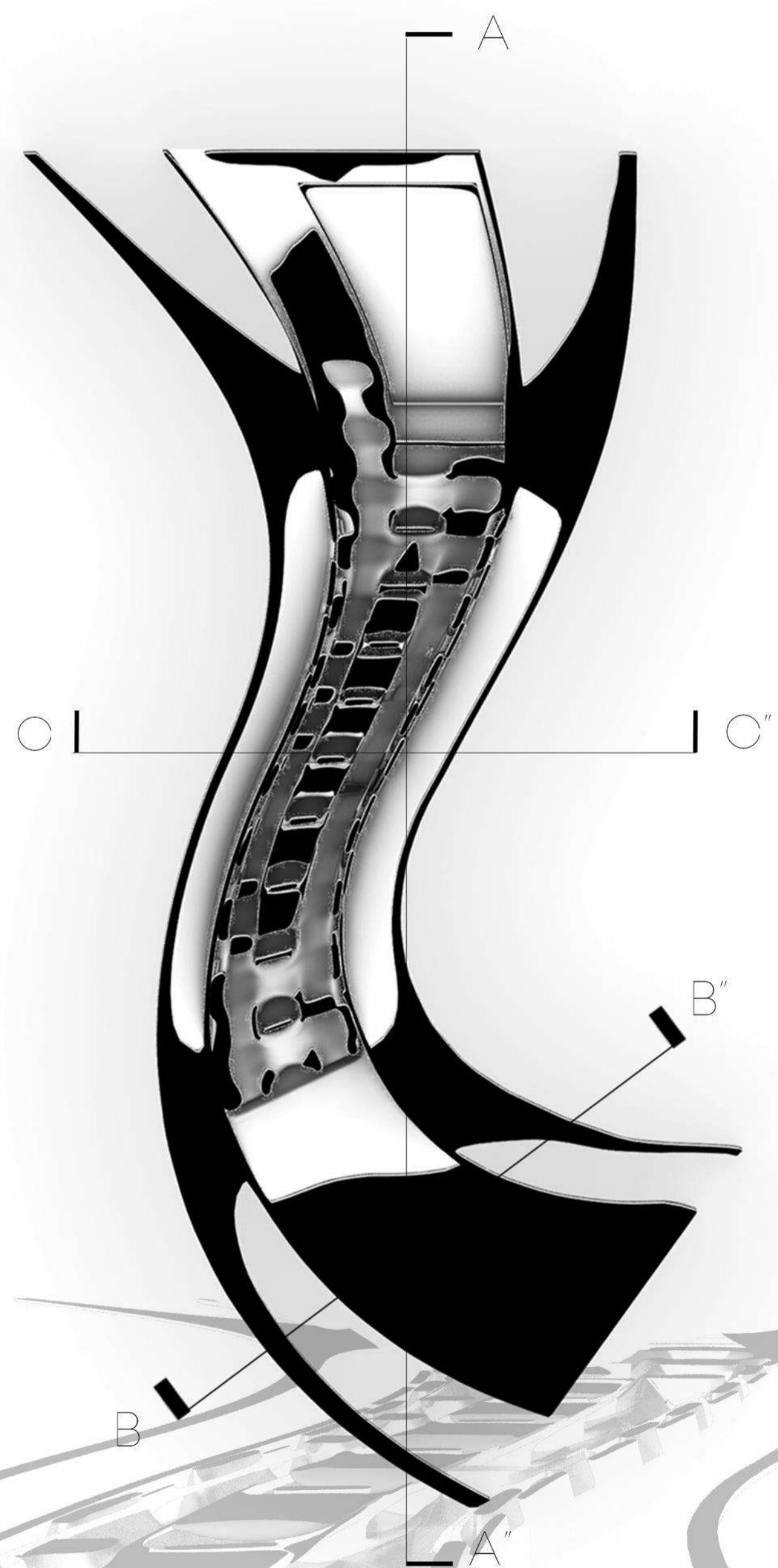
Project : Covid – 19 Spatial Translation

Size : 250sqm

Type : Individual

Year : 2020

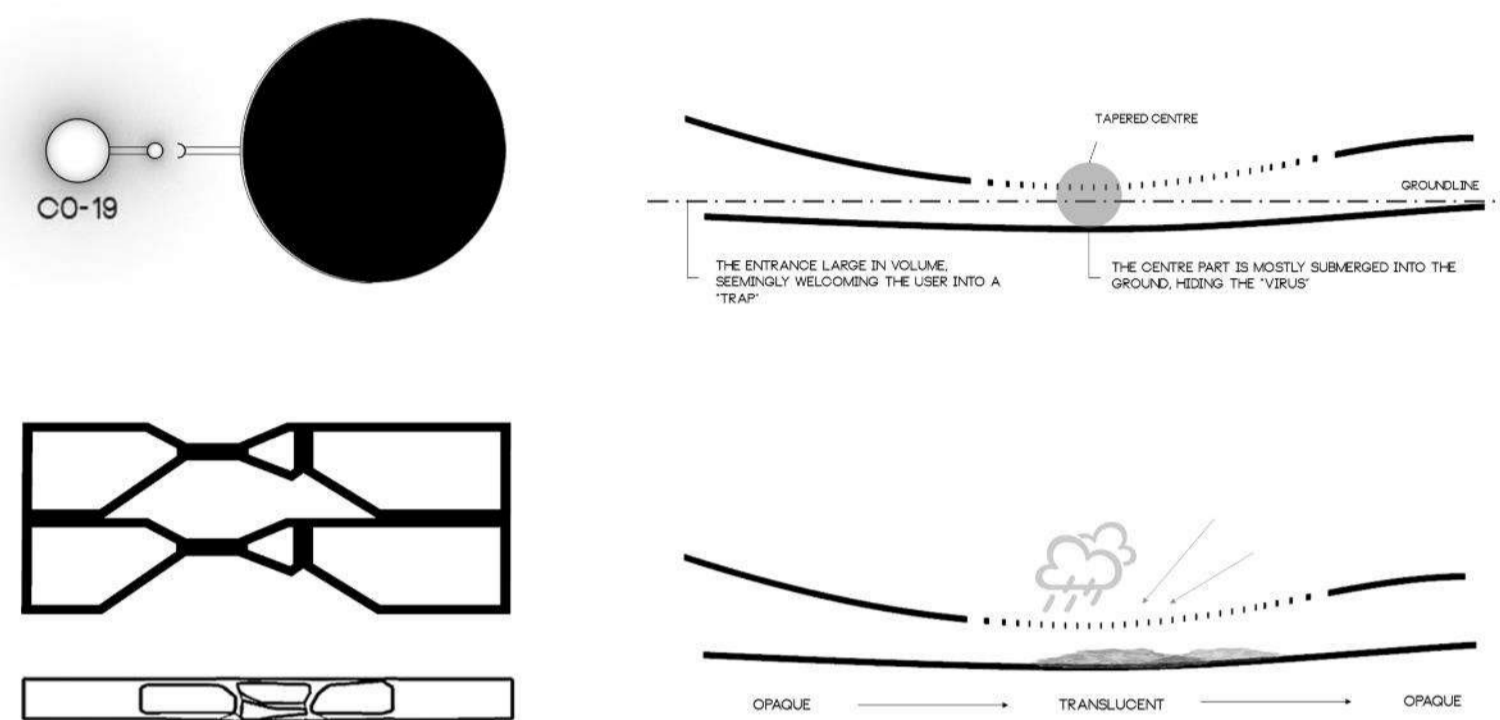




Floor Plan

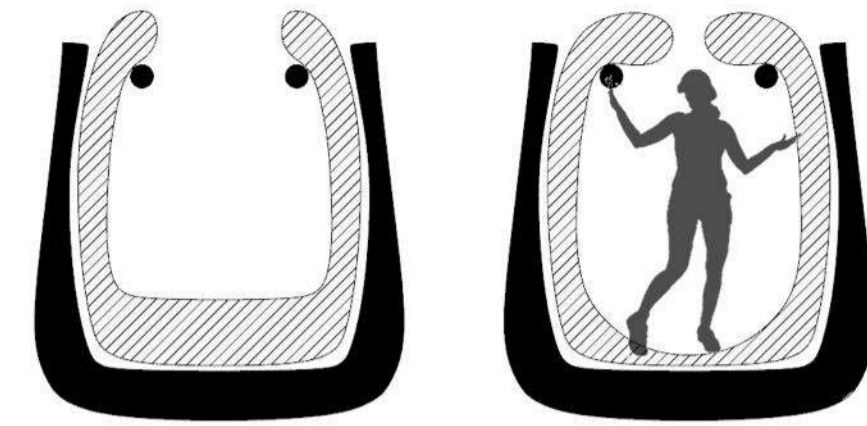
CONCEPT

The structure expresses the parasitic relationship between mankind and nature. The covid-19 pandemic was caused by the greed of the mankind, which was simply the desire to taste and feast on exotic animals. The greed of mankind can be reflected through, pollution, scraping resources off the surface of planet earth. Thus, the structure aims to reflect the journey of our experience through this pandemic; stage one: ignorance, stage two: fear, stage three: regret.

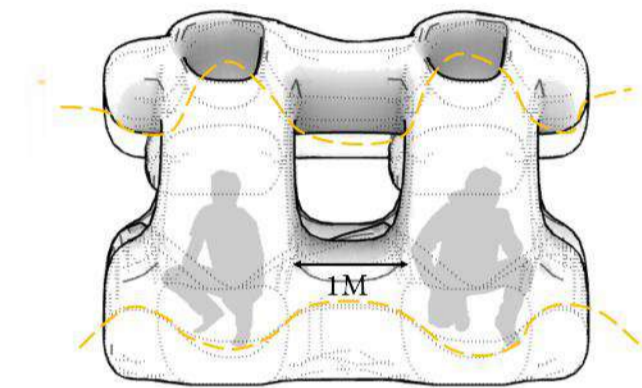




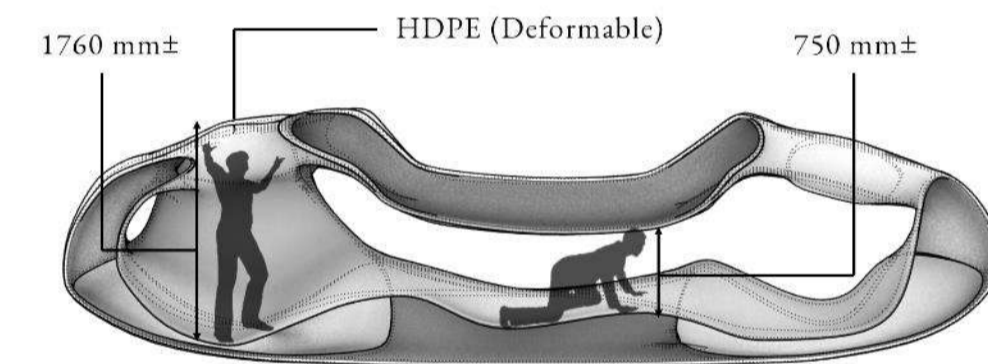
Exploded Axonometric



Trapped; evoking fear



Social Distancing



Pods Study Diagram



LOST

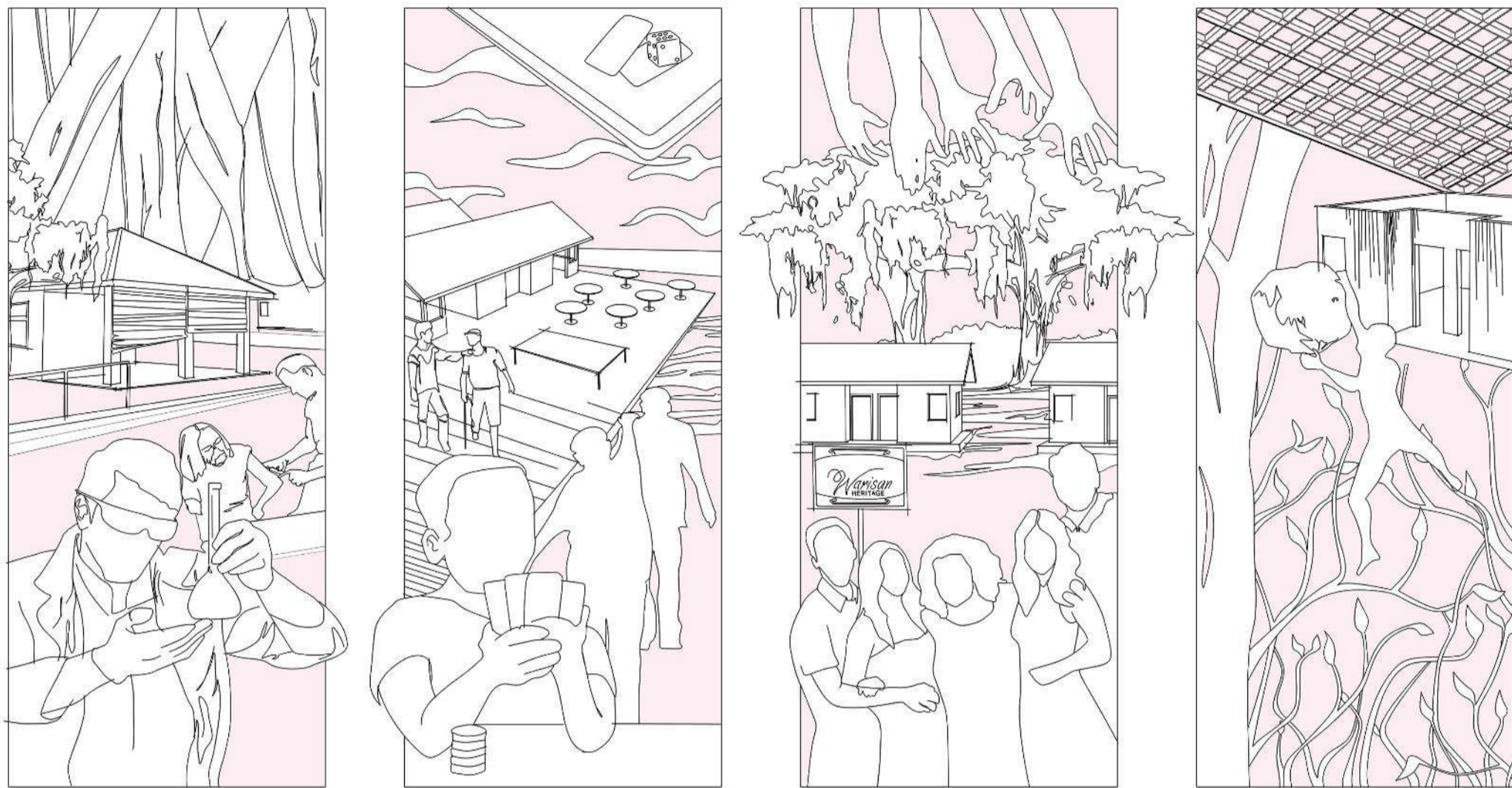
Project : Visitor Interpretive Centre

Size : 700sqm

Type : Individual

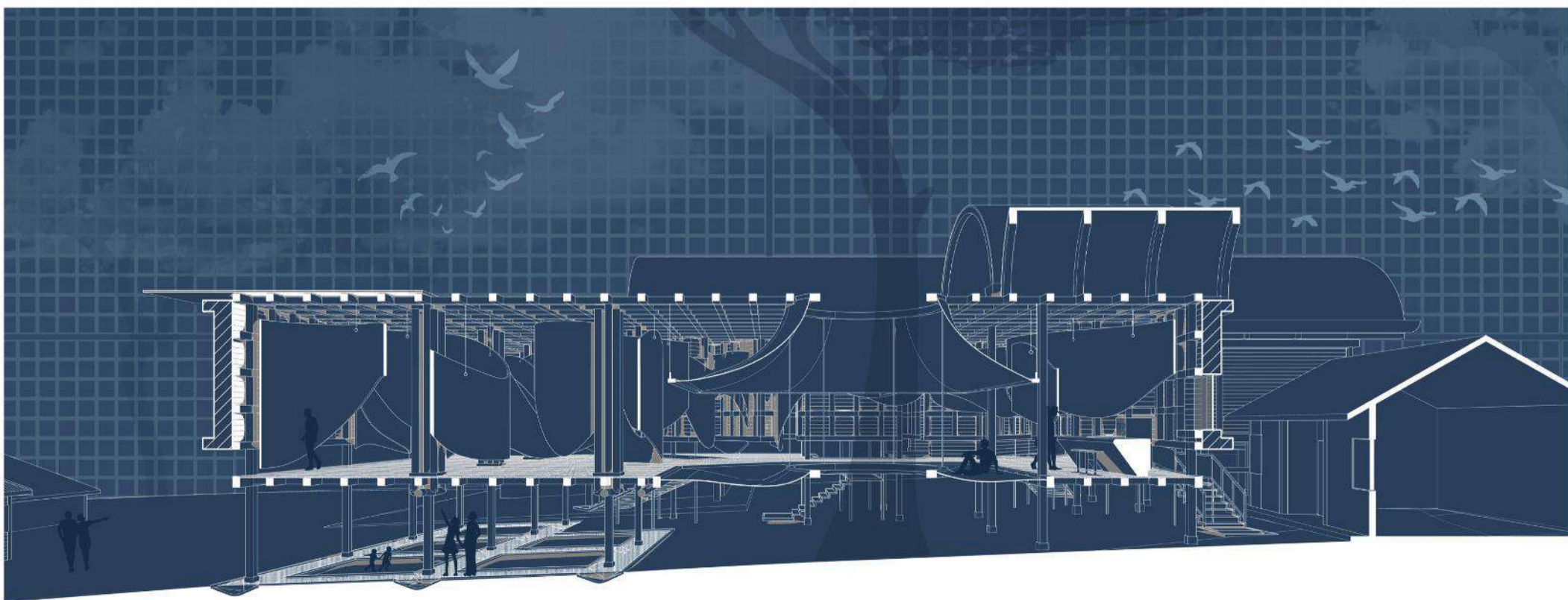
Year : 2020



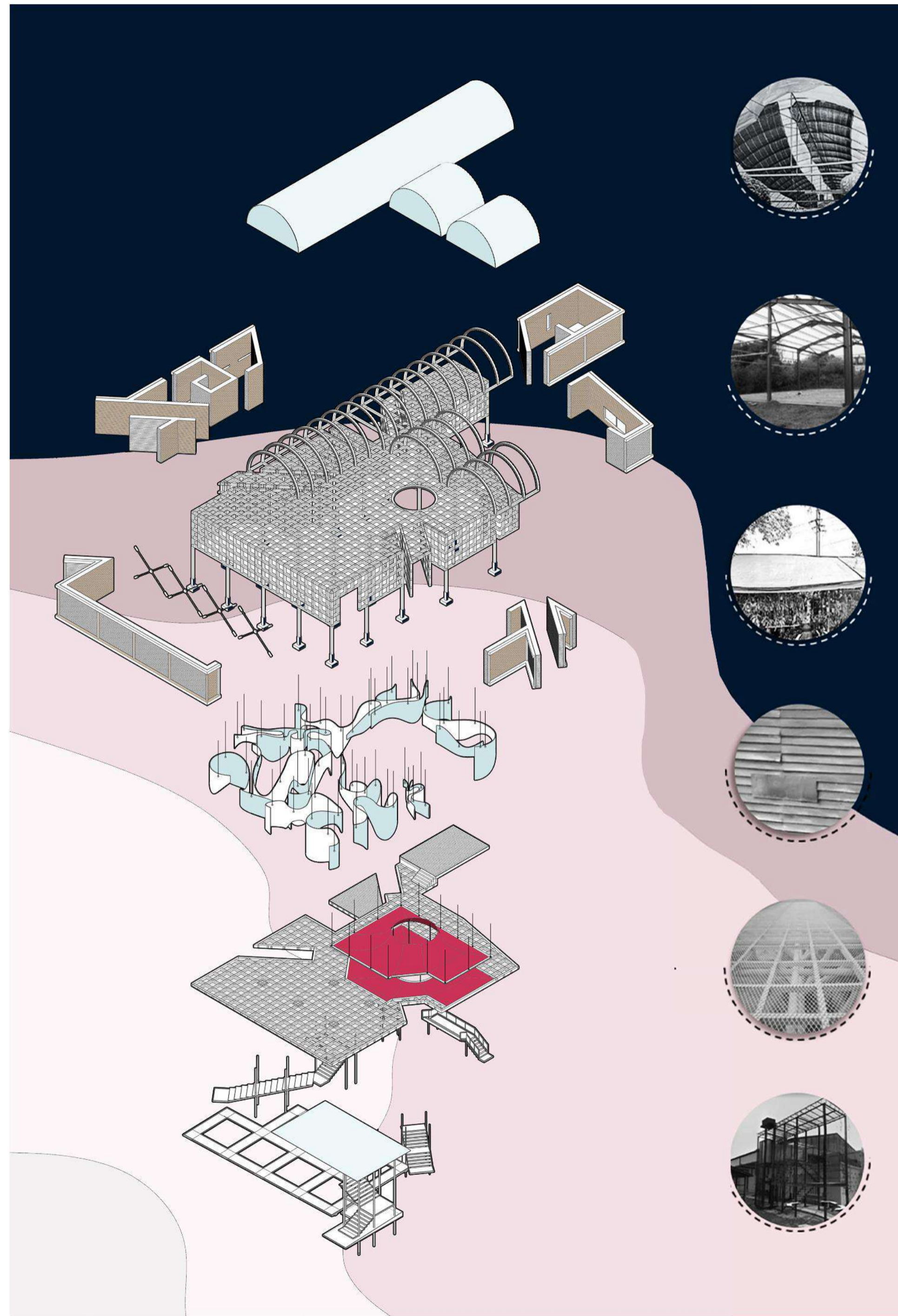


THE STORY OF THE LEPERS

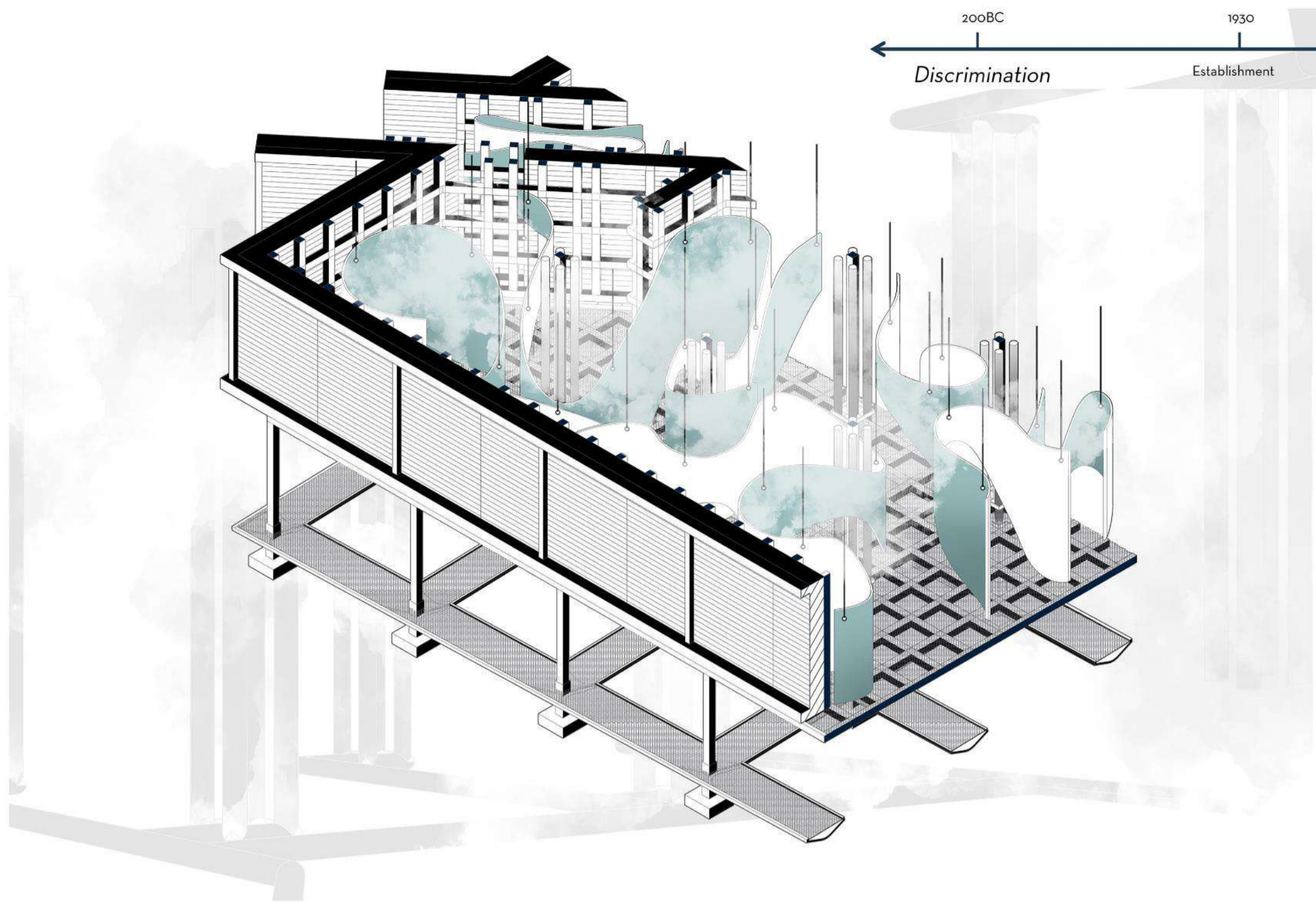
This project acts as a reminiscence of the lepers in the Valley of Hope, Sungai Buloh. The narrative: "We discriminated them because their scars, rotting flesh and missing limbs... We called them criminals and sinners... but have we really seen what was beneath them, their strong mentality and self-sustaining drive to live on in this hostile world. Has their appearances defined the beauty of their stories within?" The journey of the structure expressed the emotions of the lepers through the past 4 decades.



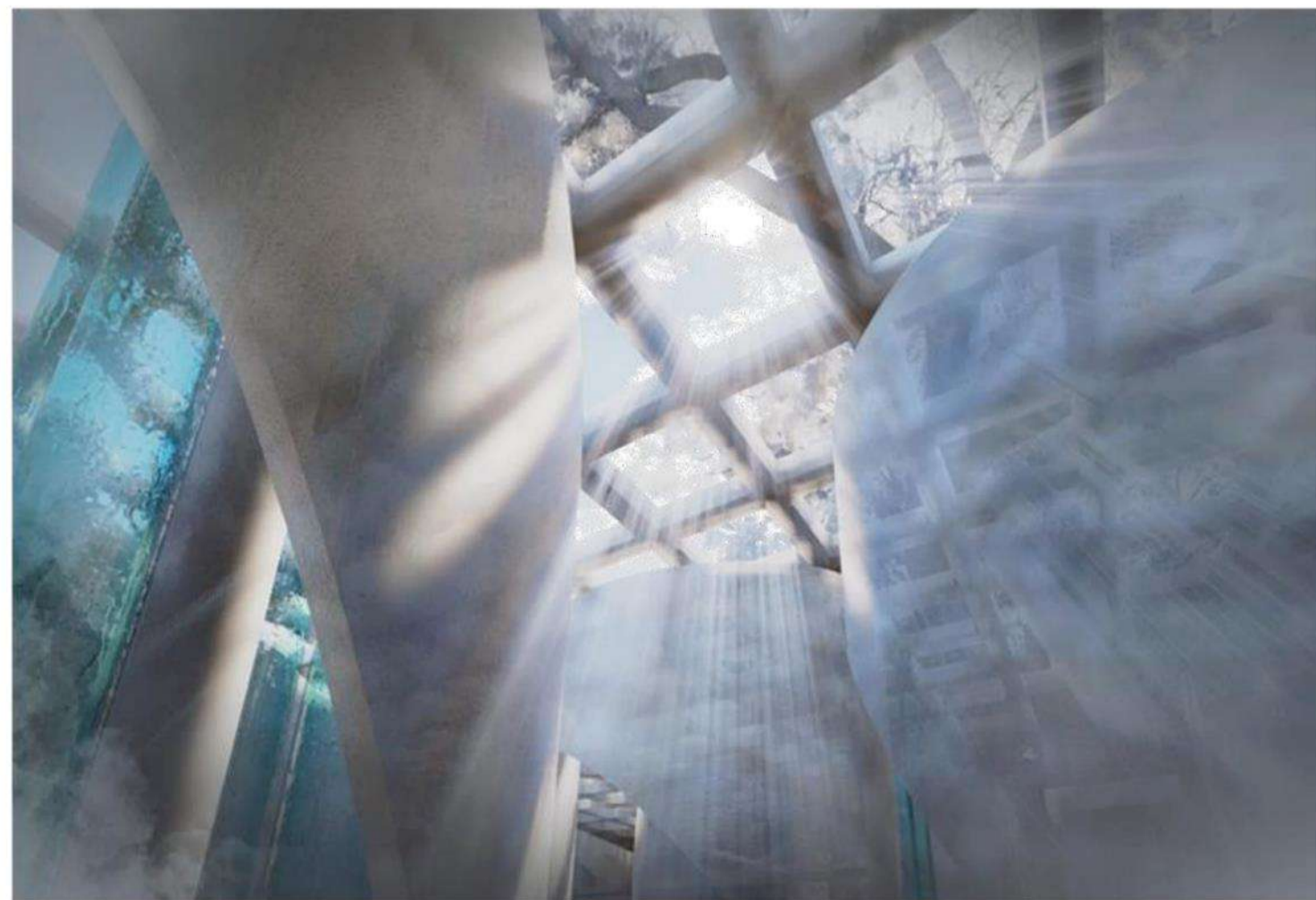
1:50 0 5 10



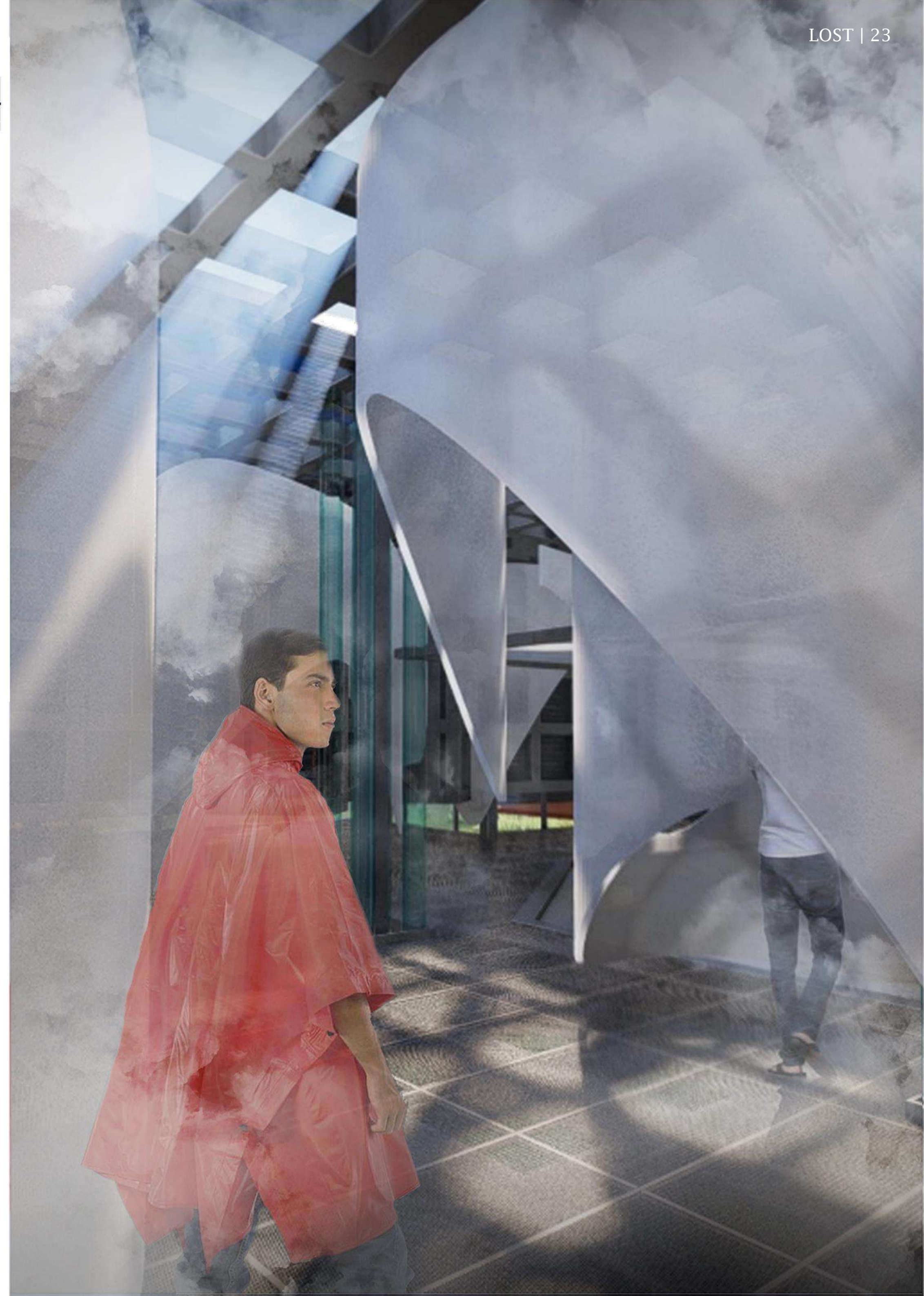
Architecture using local materials

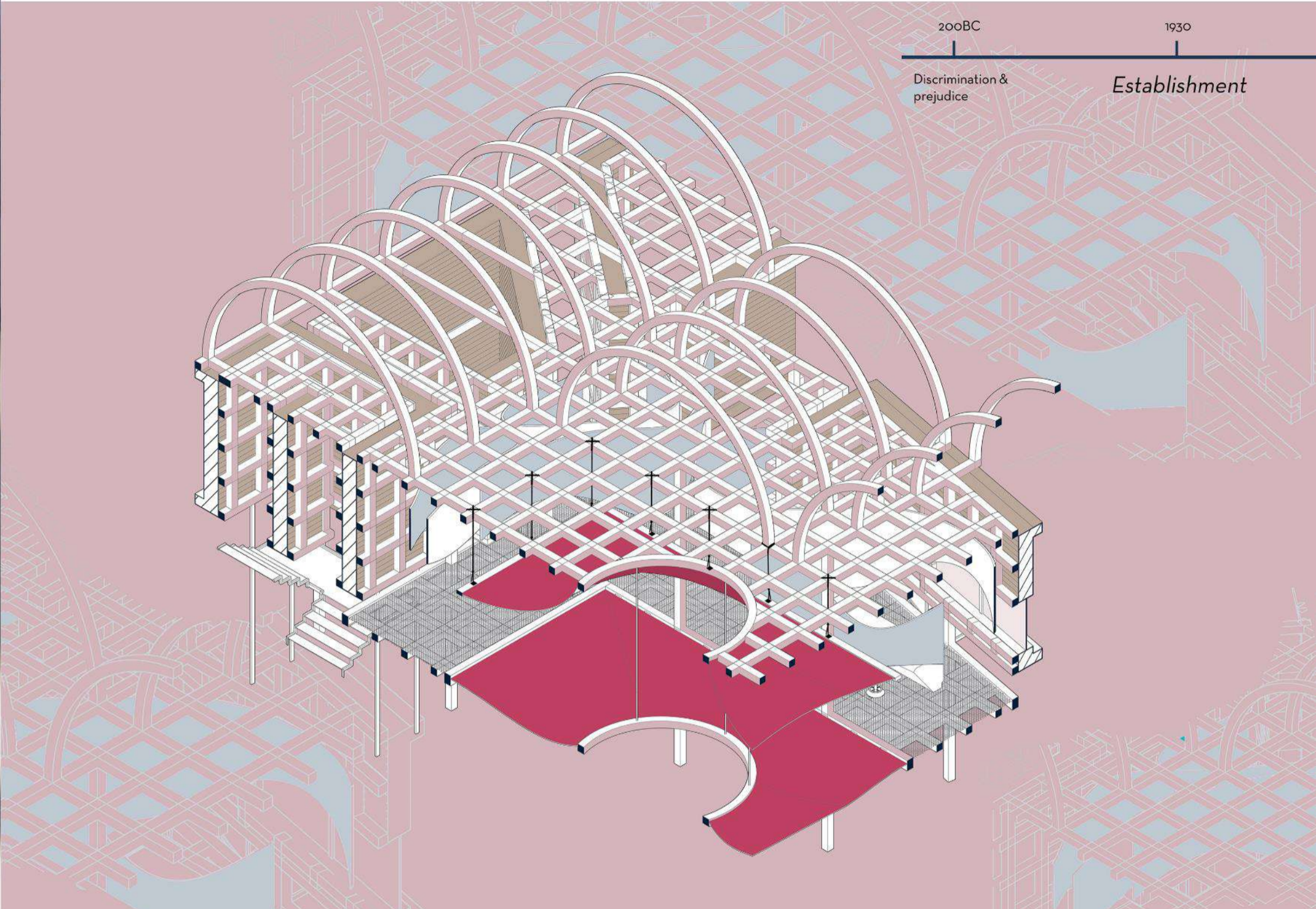


Isometric Chunk | Journey 1 | The Boiler Room



An unforgiving space that represents the cruel world the lepers had endured, blurred and numbed by the discrimination of mankind. Helplessly, they wandered within the labyrinth of hostility.

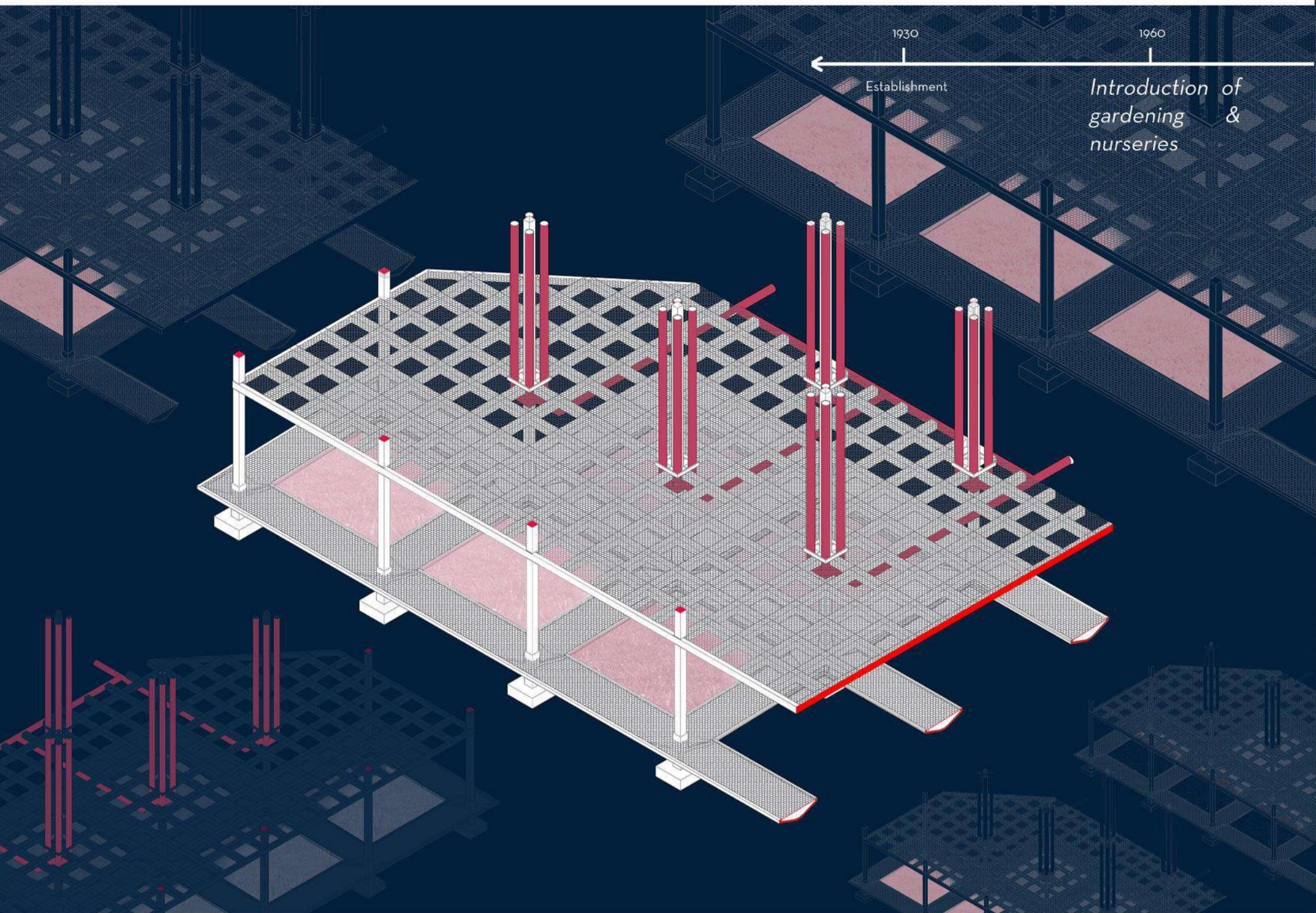




Isometric Chunk | Journey 2 | The Hideout



They saw the glimpse of light at the darkest of corners. It was the establishment of the valley of hope, a place they can now call home, that reignited their future.



Isometric Chunk | Journey 3 | The Settlement



As the settlement laid down, farming was introduced to the lepers, and it formed the bridge to the outside world. The once ignored and cursed site found its identity within the city.



REVIVE

Project : Kolkata Sustainable City Proposal

Size : Master-planning

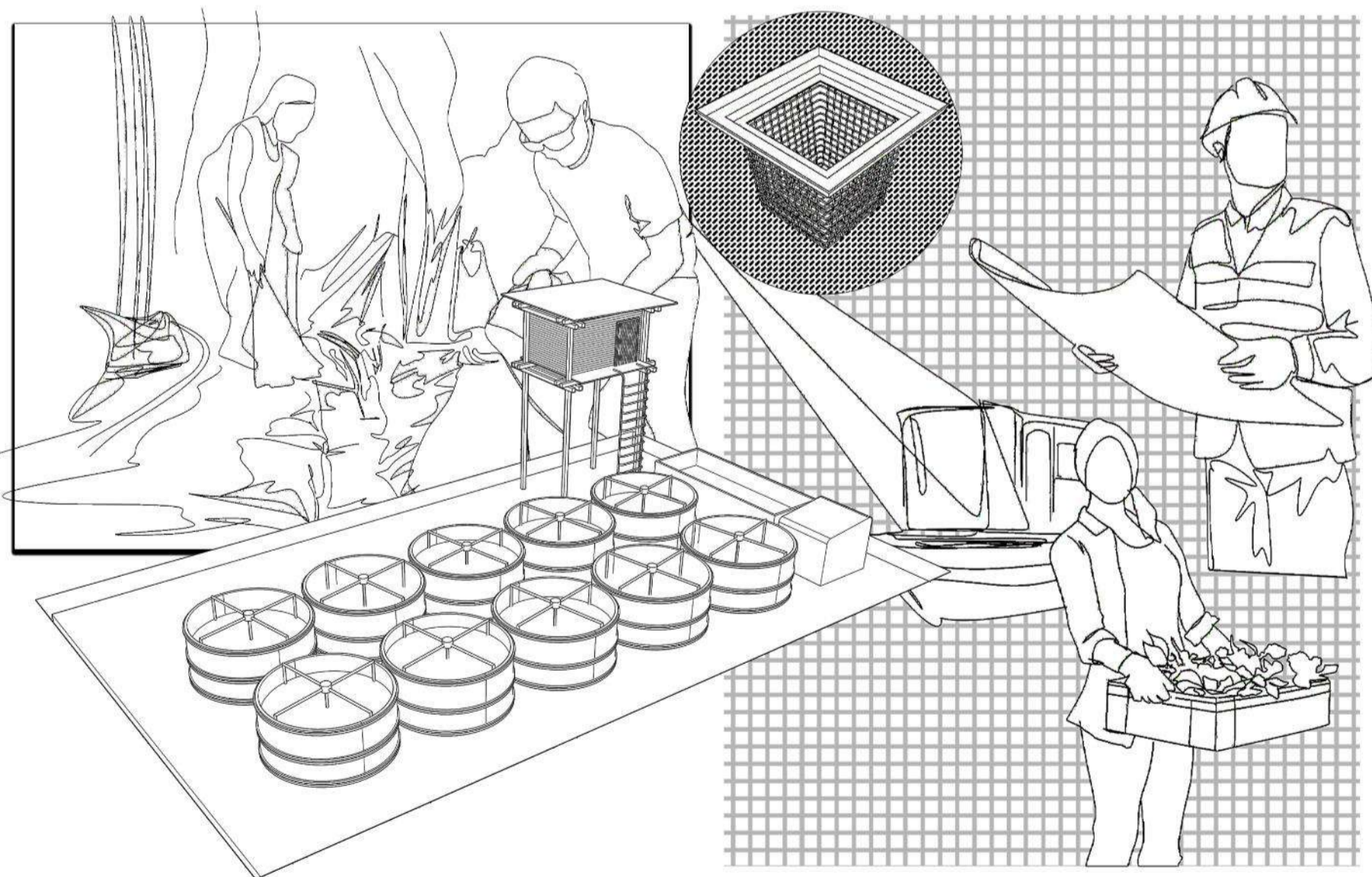
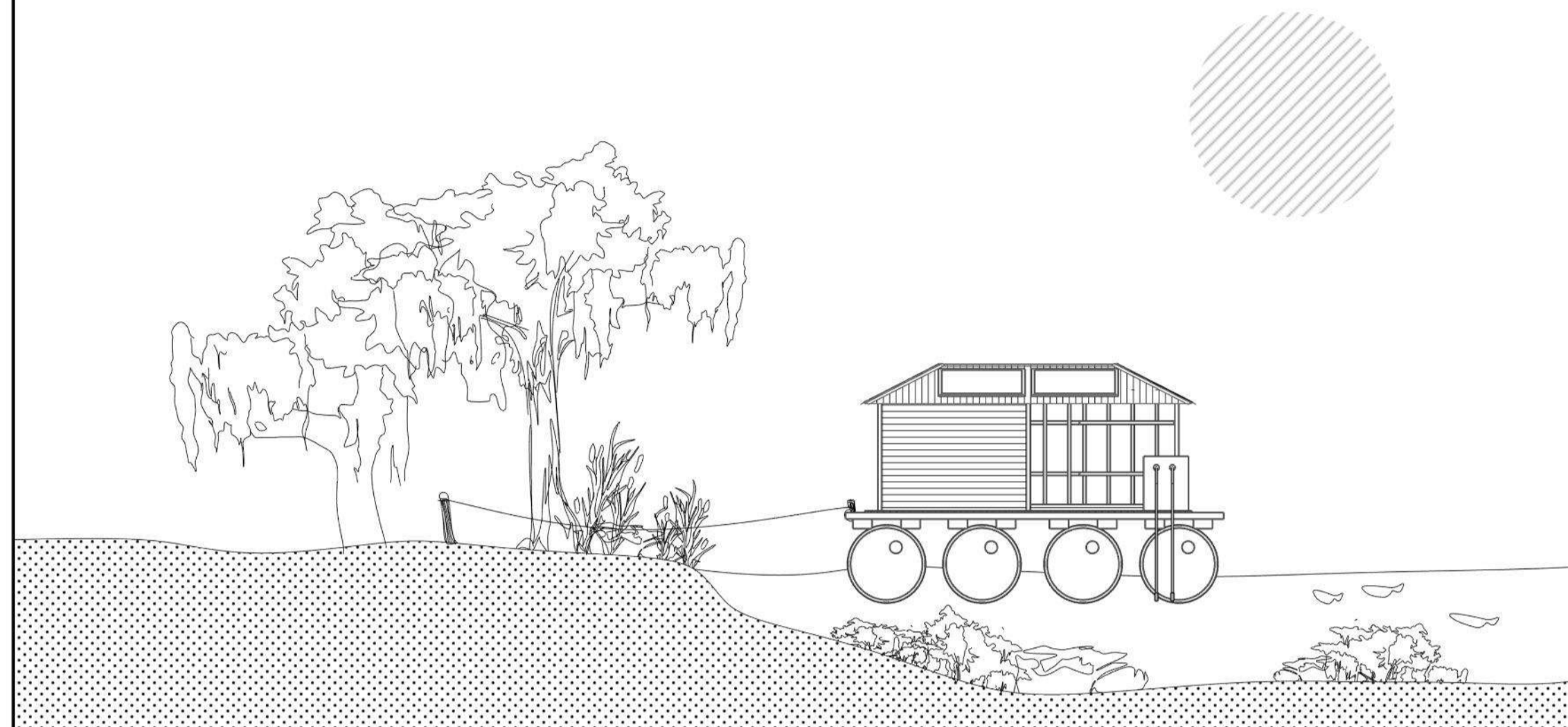
Type : Individual

Year : 2020

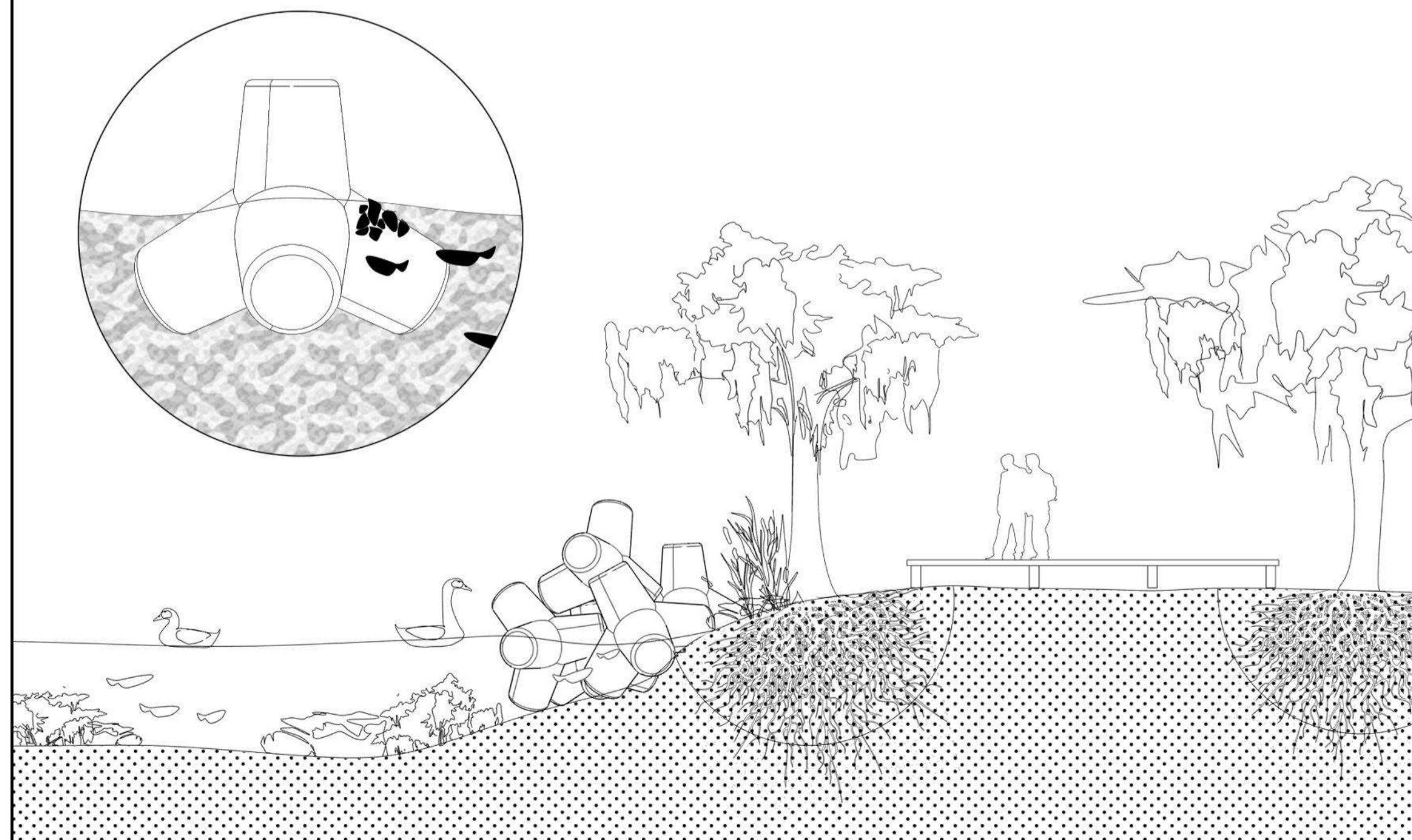


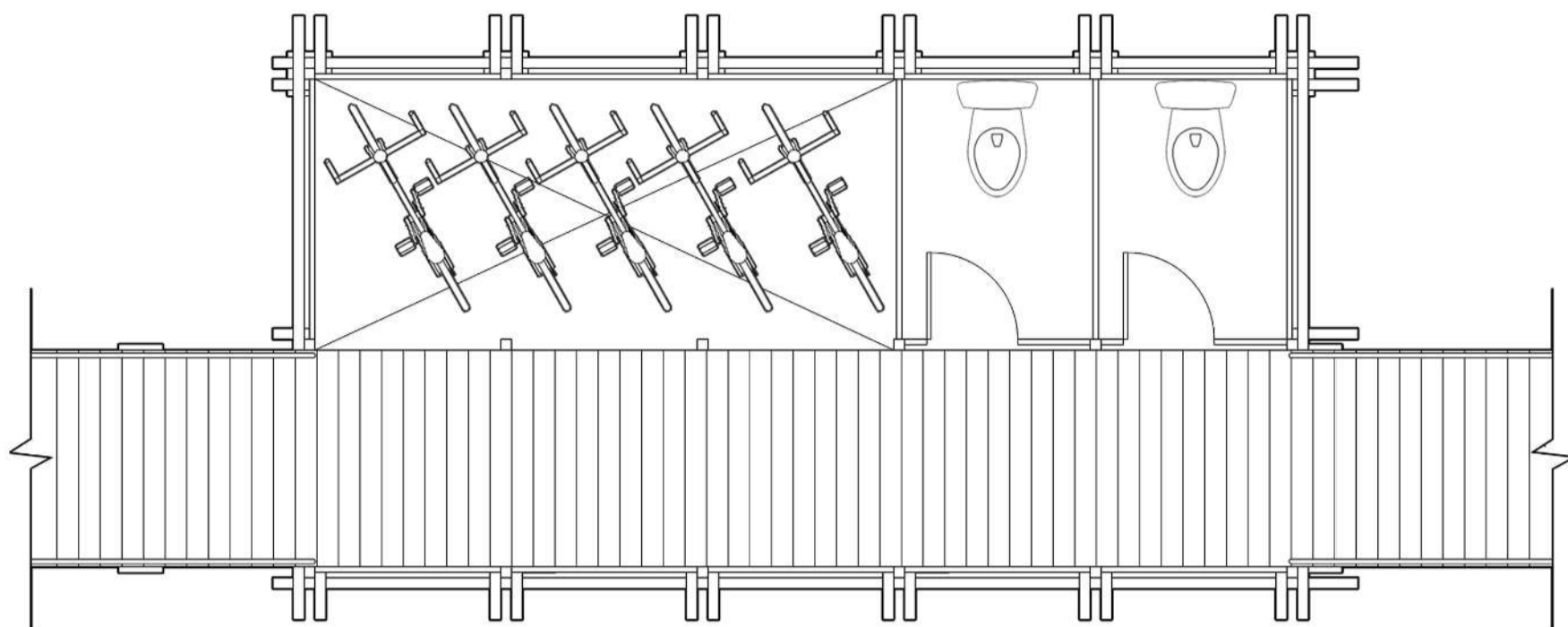


Through this master planning for the city of Kolkata, I wanted to highlight what the city has and to value it. This project is dissected into 2 portions, the reclamation and the revitalization, both targeting to restore the wetlands of Kolkata and showcasing the landmark through tourism.

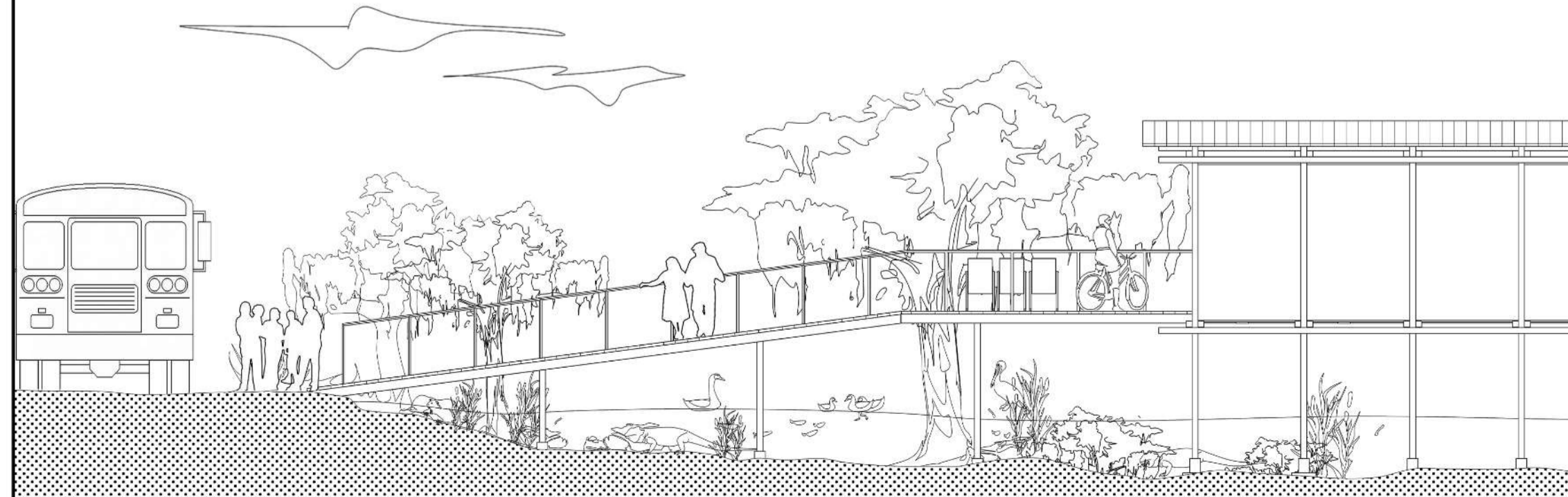
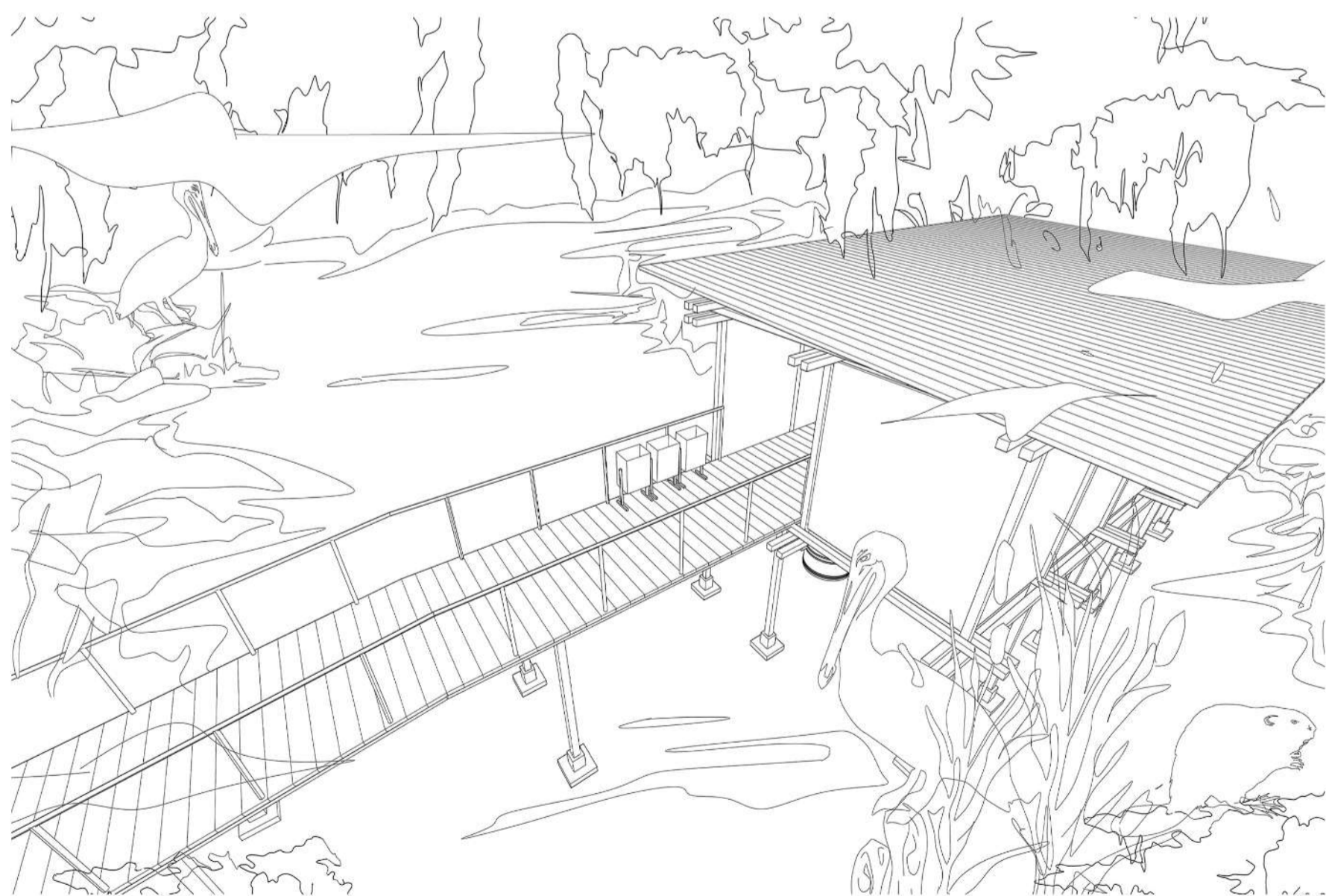
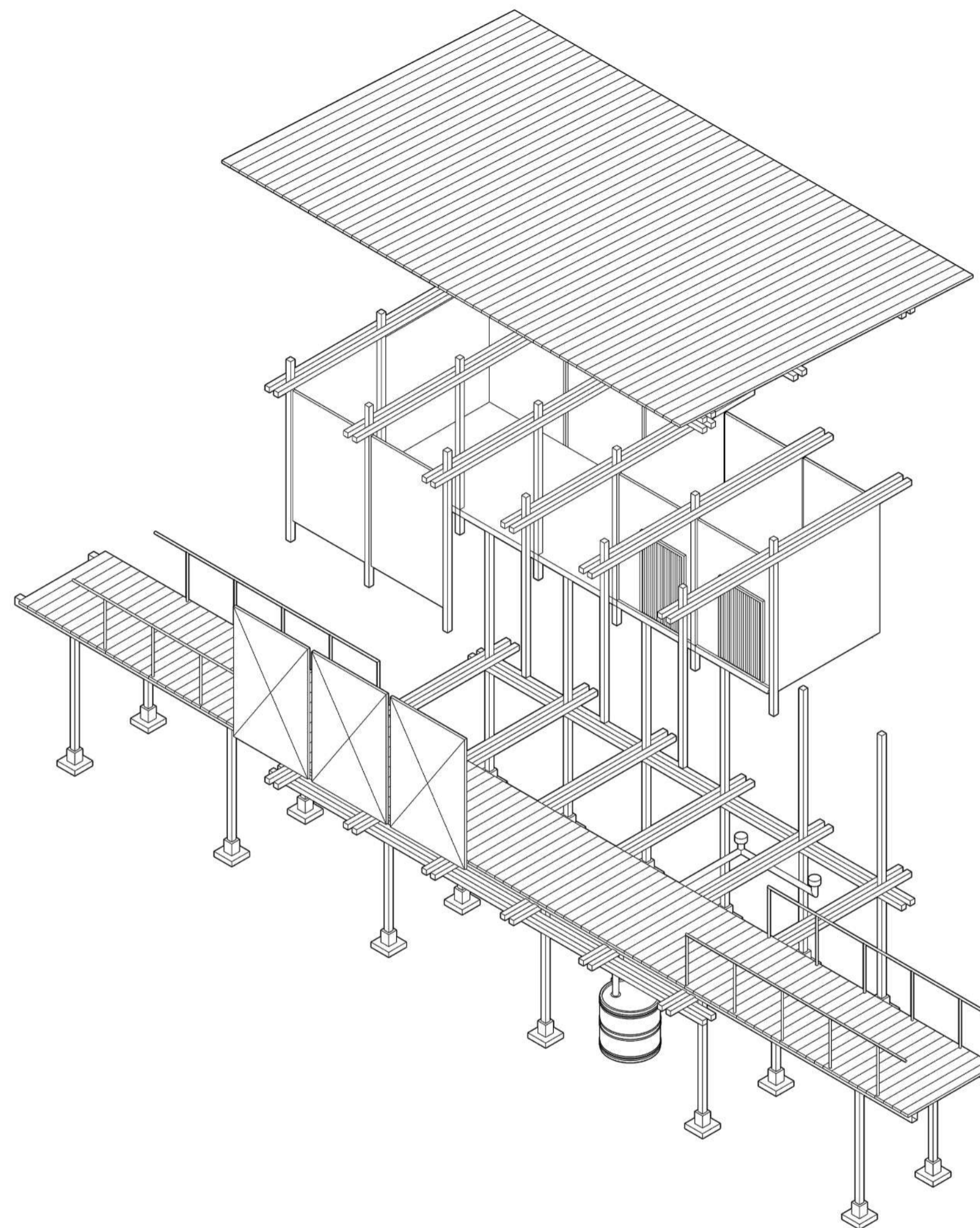


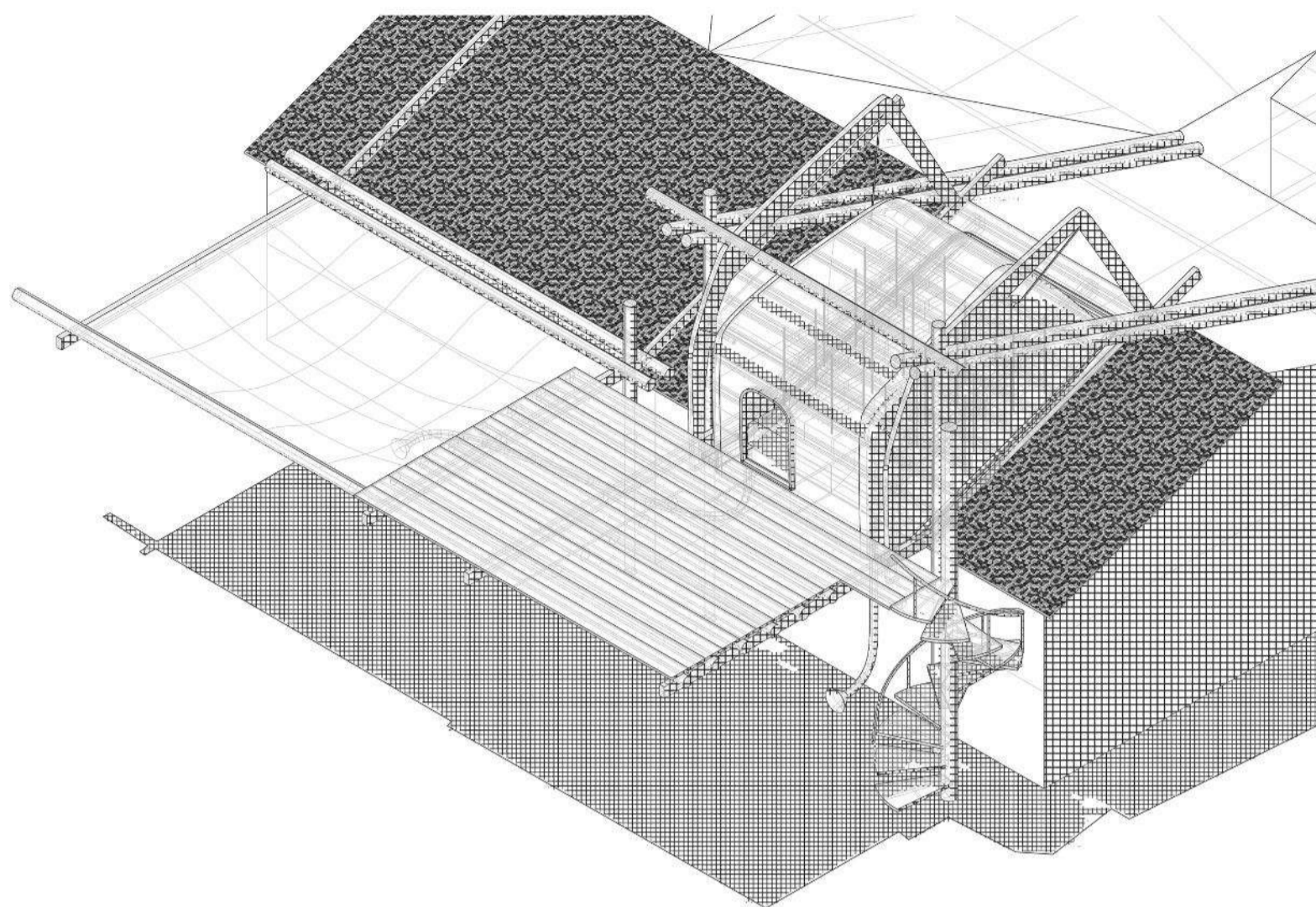
The recovery phase, involving cleaning, dredging, replanting and restoring canals with the poorly treated wetlands of Kolkata. 2 sewerage plants installed at the entry of the wetland, where the rapid development causes water pollution. 7 monitoring stations to be installed to test the quality of water in the wetlands.



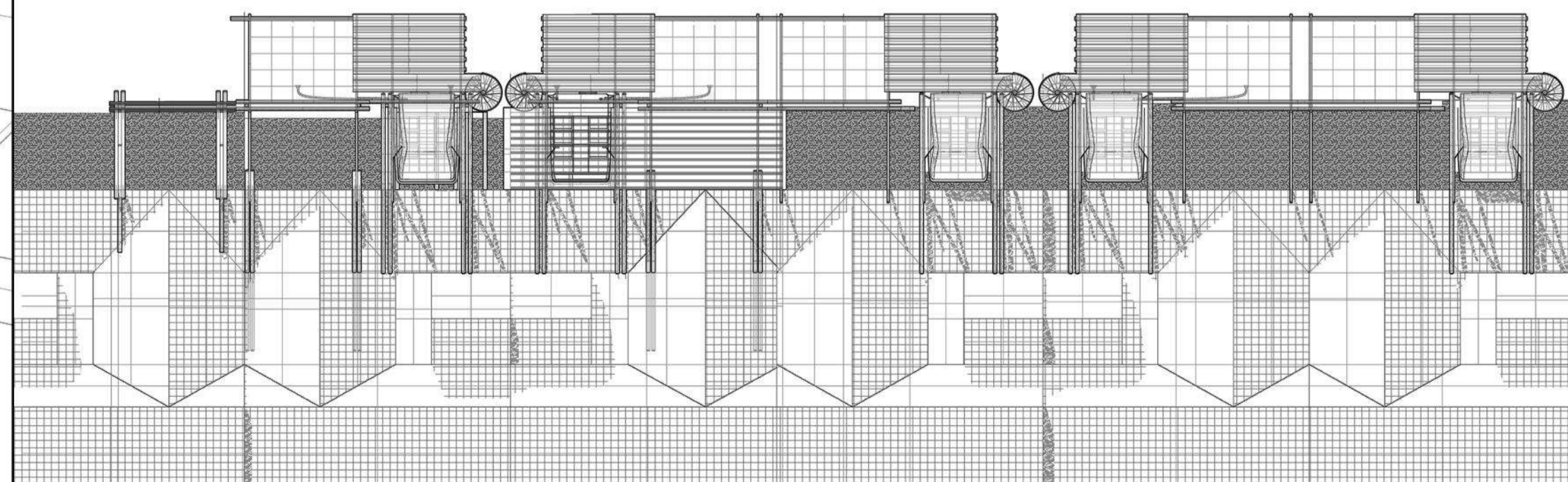
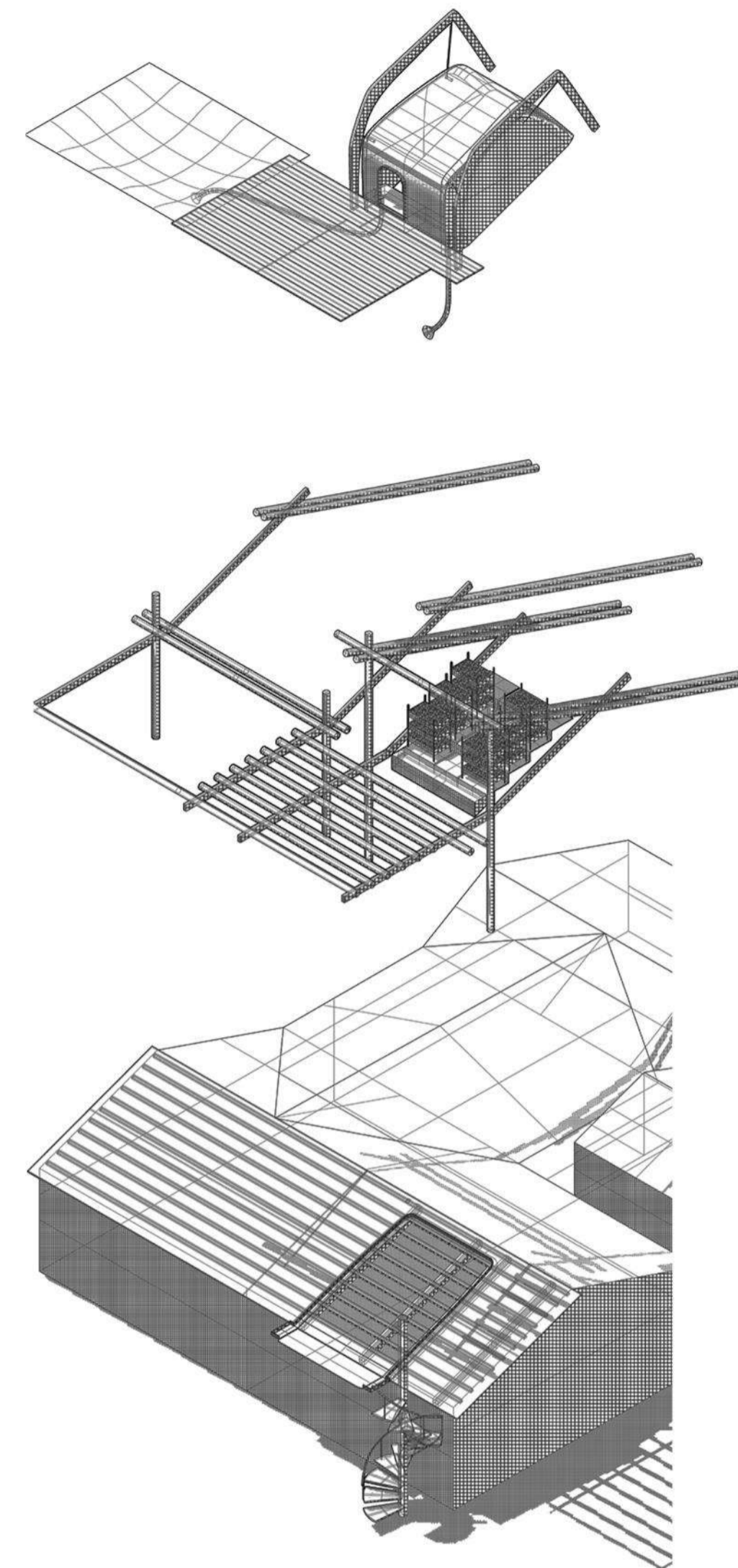
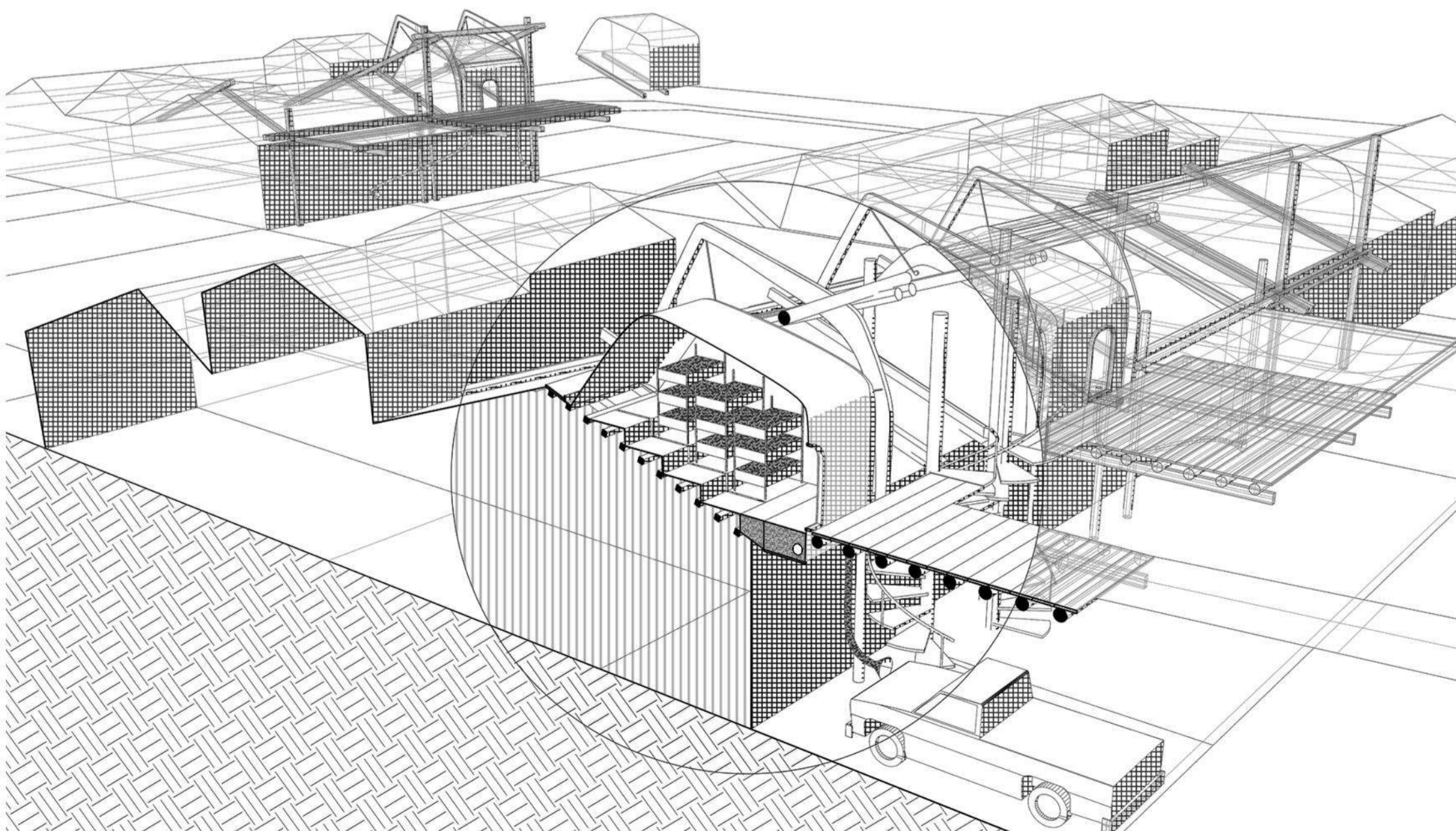


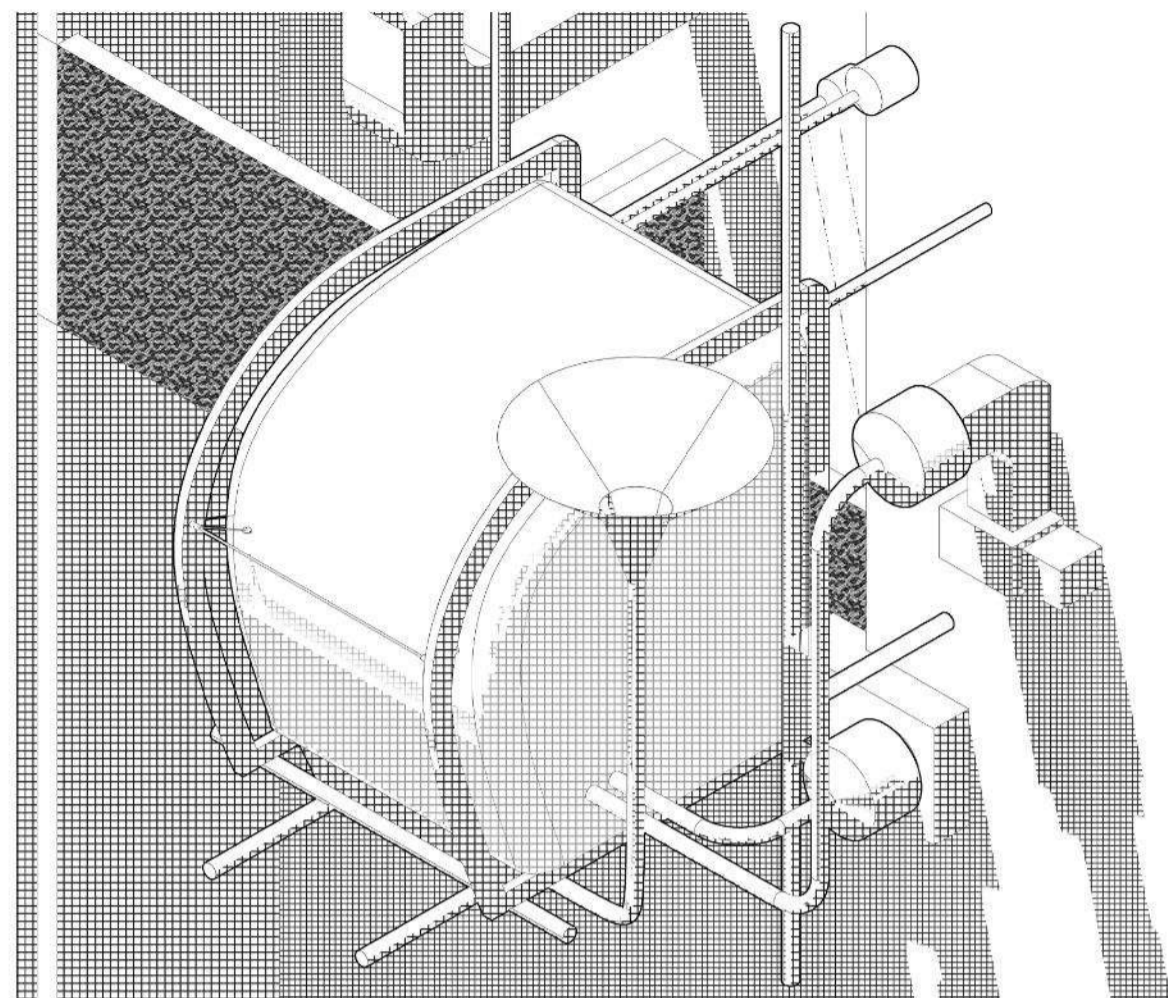
And by valuing and reviving an underappreciated landmark, tourism and residential demand is boosted resulting in a 'payback' for the efforts of revitalization. These stations attaches to link stilted paths to provide shelter, bicycle parking and toilet cubicles. To minimize the damage to the wetlands, it utilizes modular precast construction system, lightweight steel and timber joineries and raised platforms.



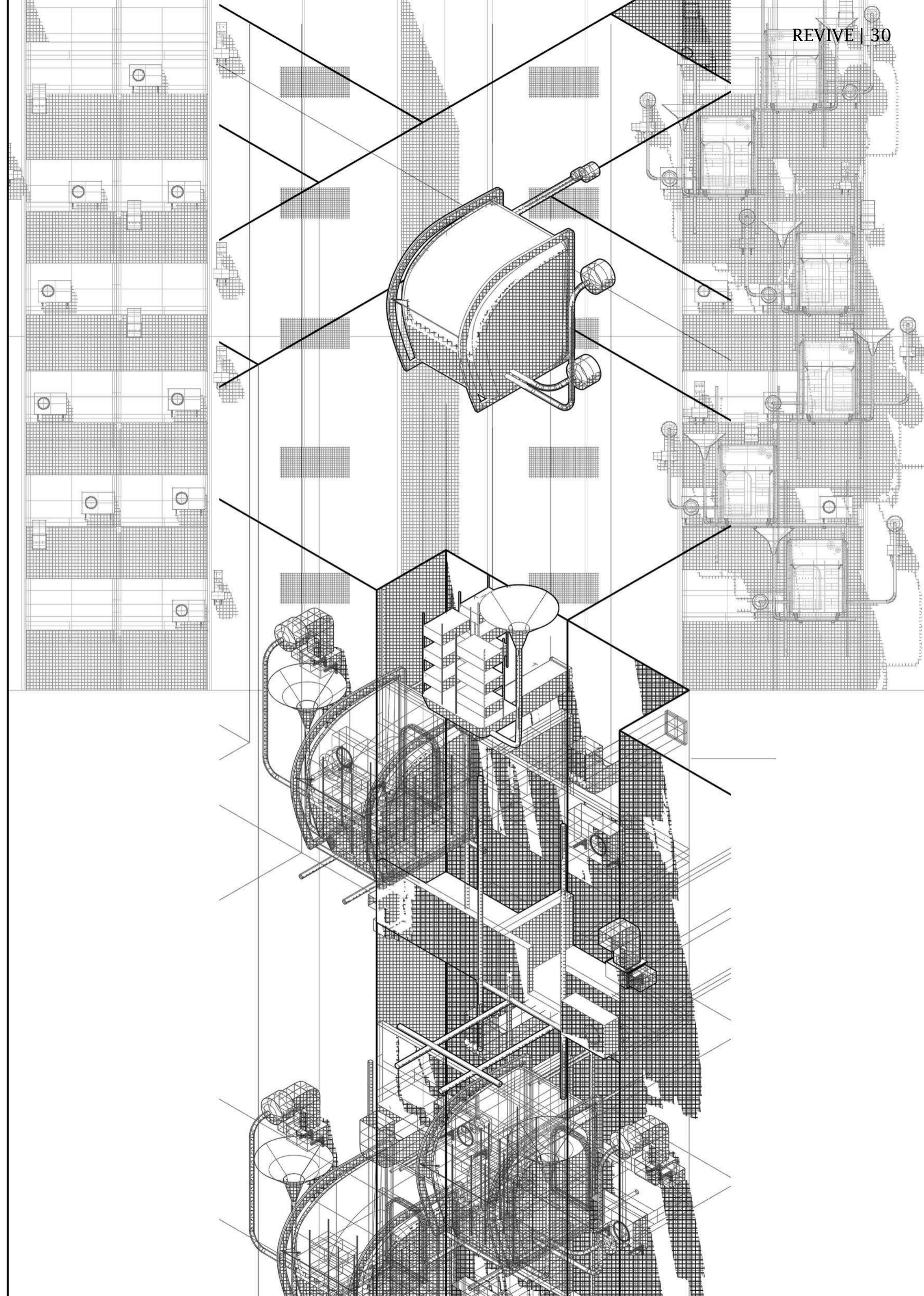
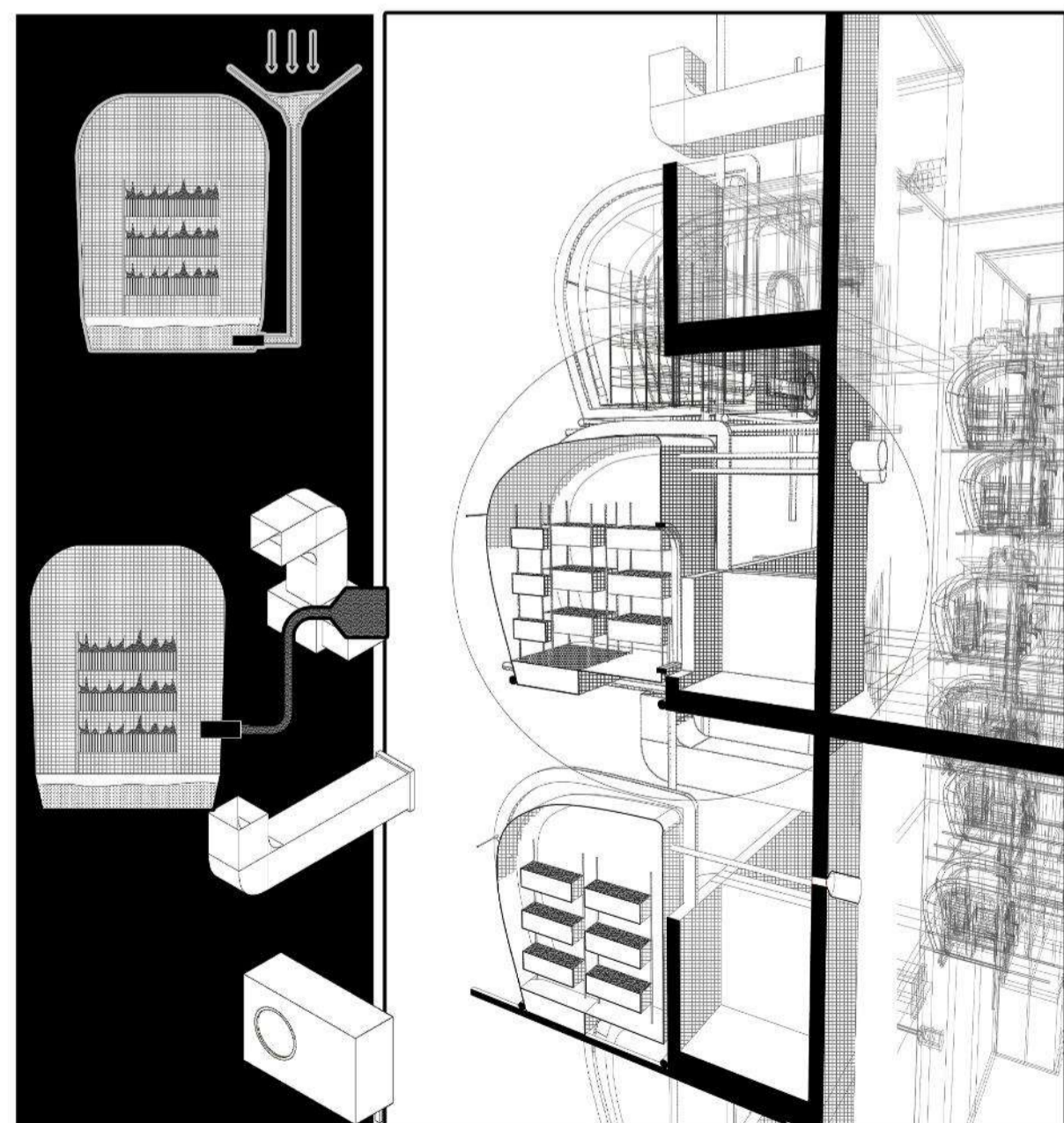


A green lung plugin for low rise that attaches itself to the roofscape of Kolkata. Targeting both the air pollution and urban heat island, the plugin is attached at the highest point of the structure, to flush out hot air from both the top of the roof and the occupants' vehicles through stack ventilation and mechanical means, respectively. Besides, the plugin creates spaces for hydroponics, providing food source to the users. To reduce maintenance efforts, a built-in rainwater harvesting tank collects rainwater through gutters and stores them beneath the floor deck.





A green lung plugin for high-rise in Kolkata. Similarly, targeting both the air pollution and urban heat island, the plugin is attached at balconies, exposed exhaust and AC vents, to flush out hot air through cross ventilation and mechanical means, respectively. Both the hydroponics and rainwater harvesting system are integrated into the plugin.



Wong Hau Nam

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My Portfolio Website

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