



Interwoven Spaces
SONG PEI LING
selected works
2021-2023

Dialogues of Light, Texture, and Community

This portfolio showcases my efforts to bridge architecture with interior design. They are not merely functional areas but storytelling venues, where every detail captivates and educates us about society, culture, and the environment. These works reflect my belief that creating spaces that not only integrate internally and externally but also provoke thought and evoke emotions.

I am convinced of the power of interior design—not just in crafting aesthetically pleasing and comfortable spaces but in how it compels us to connect with our surroundings and elevates our daily existence. Through applications of materials, light, and spatial fluidity, we can create interiors that truly reflect the spirit of the inhabitants and the character of the place. In this process, we are not just designing spaces; we are weaving the fabric of life, shaping the structure of society, and recording the pulse of culture.

This portfolio is a reflection upon my design practice, displaying how a profound understanding of light, texture, and innovative technologies can be used to create spaces that are both beautiful and meaningful. It is a declaration of the values I hold dear: A design philosophy that emphasizes the narrative power of spaces, social engagement, and a deep respect for the land.

Thank you for your time and interest in perusing my work.

Contents

I	<i>Before the Heat Dissipated</i>	1
II	<i>Urban Oasis</i>	7
III	<i>Rise Thatch Resort</i>	14
IV	<i>Tian-Ma Memorial Group</i>	19
V	<i>Townhouse</i>	22
VI	<i>Coral Biomimicry Study</i>	25

For each project, I have specified the category as “Individual” or “Collaboration” along with my contribution. I produced all the images in this portfolio unless otherwise stated.

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01

BEFORE THE HEAT DISSIPATED

Completed: Summer 2023
Category: Individual Work - Graduation Thesis
Site Area: 12000 m²
Location: Yilan, Taiwan
Materials: Concrete
Advisor: Kwang-Tyng Wu
Award: Golden Pin Concept Design Award
Exhibition: 2023 CYAR 59th Annual Graduation Exhibition at SCCP Taipei



02

URBAN OASIS

Completed: Winter 2022
Category: Group Work - Competition
Responsibilities: Analysis, Plan, 3D Modeling, Render
Site Area: 250,000 m²
Location: Taipei, Taiwan
Materials: Concrete
Advisor: Kwang-Tyng Wu
Exhibition: 2023 A Vision for Transforming at Taiwan Contemporary Culture Lab



03

RISE THATCH RESORT

Completed: Summer 2022
Category: Individual Work - Academic work
Site Area: 18000 m²
Location: Taoyuan, Taiwan
Materials: Bamboo, Rice Straws, Concrete
Advisor: Shih-Ming Huang



04

TIAN-MA MEMORIAL GROUP

Completed: Summer 2022
Category: Individual Work - Professional Work
Site Area: 3800m²
Location: Kuala Lumpur, Malaysia
Materials: Wood, Metal, Marble
Advisor: Ai-Ling Huang



05

TOWNHOUSE UNFURLED

Completed: Fall 2023
Category: Group Work - Academic Research
Responsibilities: Analysis, Plan, 3D Modeling
Site Area: 5200 m²
Location: Taoyuan, Taiwan
Materials: Concrete
Advisor: Kwang-Tyng Wu



06

CORAL BIOMIMICRY STUDY

Completed: Winter 2021
Category: Individual Work - Academic Research
Materials: Clay, Pottery, Plaster
Advisor: Hung-Ming ,Chen

01 BEFORE THE HEAT DISSIPATED

As the hot spring area shrinks...

[Introduction]

In recent years, due to the unrestrained extraction of geothermal resources, the once steam-enveloped hot spring landscapes have been fading away. In fact, the thermal energy of the hot springs has diminished by 50% over the past seventy years. This decline has not only impacted the natural scenery but has also led to the diminishment of public bathhouses that represent shared resources, dwindling in the wake of urban expansion and the depletion of hot springs.

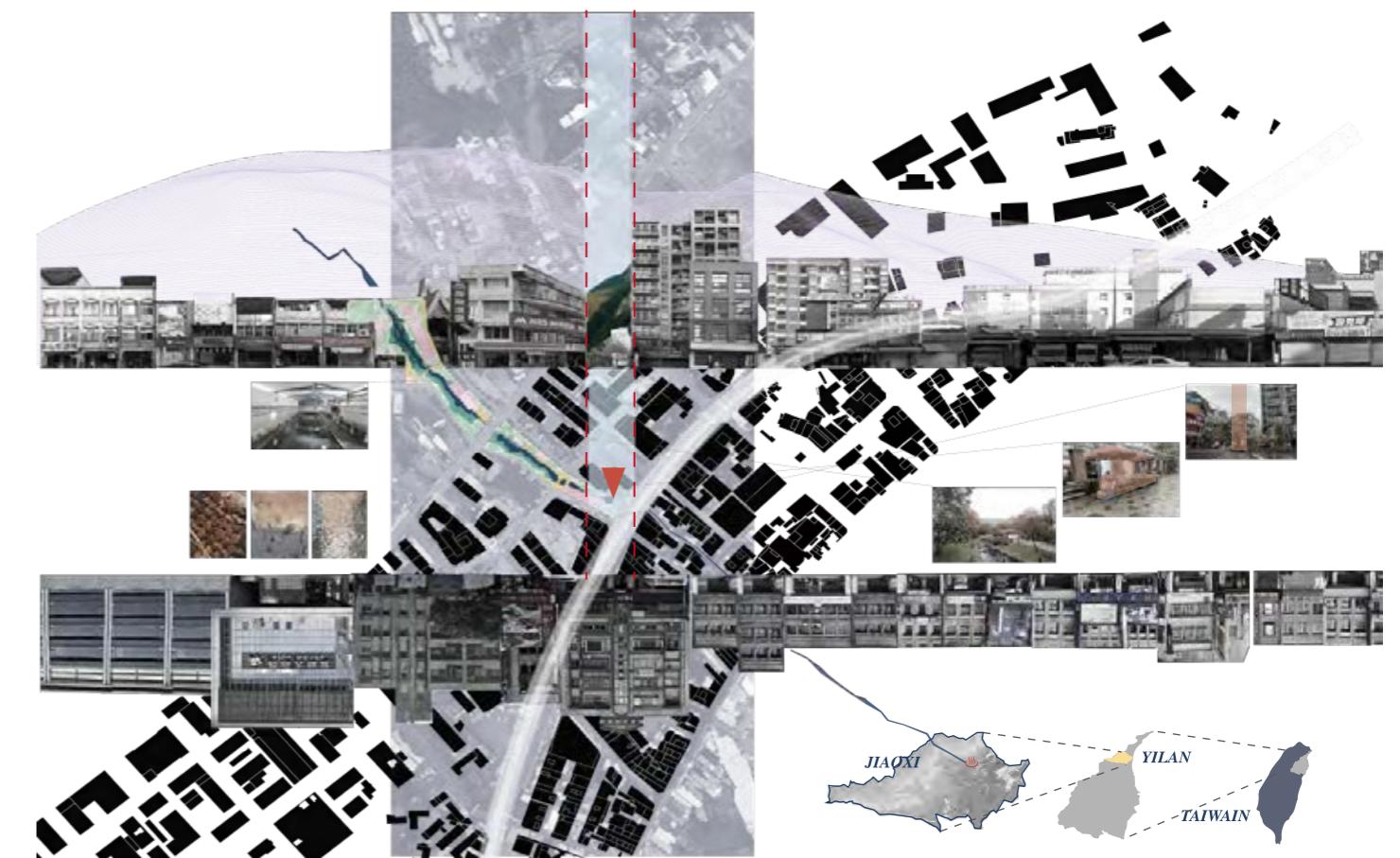
Once, the original living spaces of Jiaoxi were built in harmony with the mountainside, coexisting peacefully with nature. However, today the region has developed rapidly at an exceedingly high density, compressing the original natural spaces. The massive hot spring hotel structures have created a visual and spatial barrier that disconnects the relationship between the mountains and the people, gradually becoming symbols of luxury rather than spaces that blend harmoniously with the surrounding environment.



Type / Individual Work
 Instructor / Kwang-Tyng Wu
 Period / Summer 2023
 Site / Yilan, Taiwan
 Award / Golden Pin Concept design Award



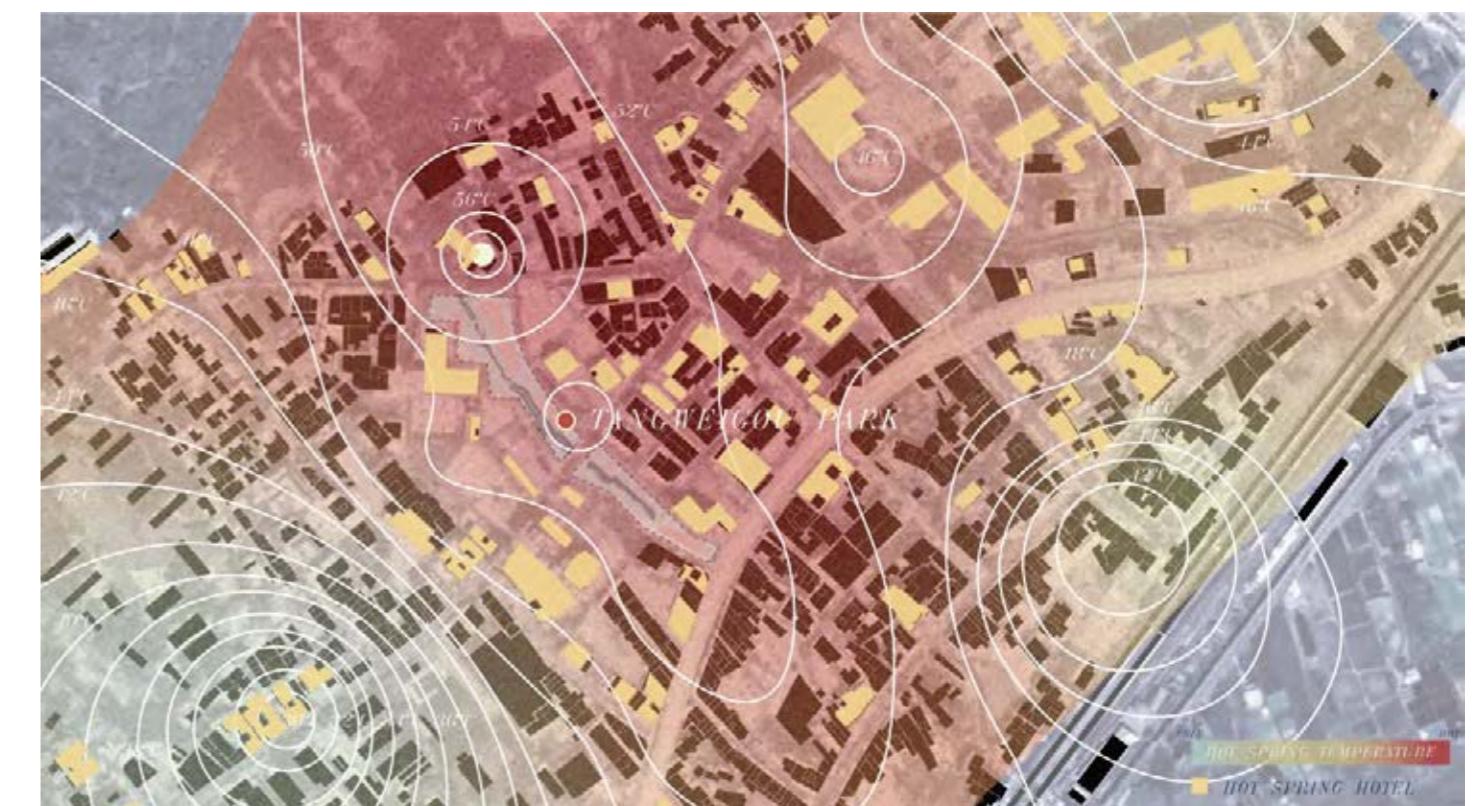
JIAOXI STREET FACED ANALYSIS



Pivotal Axis in the Jiaoxi Hot Springs Network

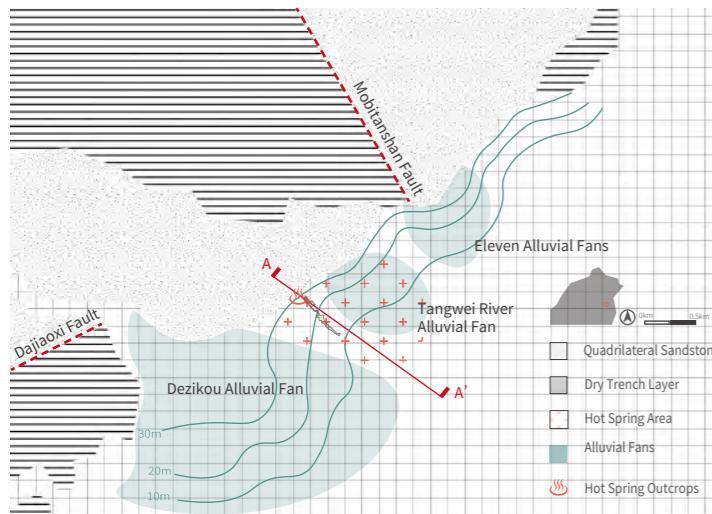
Tangweigou Park, suffers from an obscured entrance, overshadowed by an amalgamation of structures and signage. The hot spring, an invaluable natural asset, finds itself encircled by a recent influx of buildings and hotels, a development that has effectively eclipsed the view of the distant mountains.

HOT SPRING TEMPERATURE DISTRIBUTION



HOT SPRING ANALYSIS

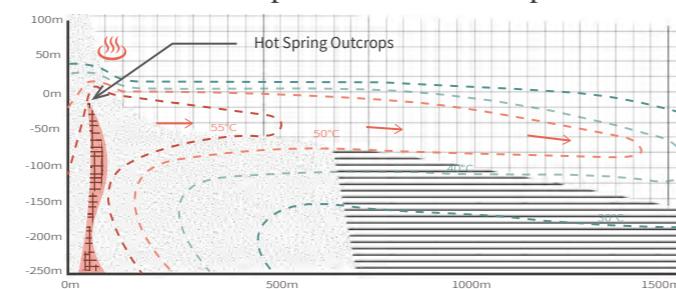
- Geological Distribution



- Quadrilateral Sandstone



- A-A' Section Temperature Relationship

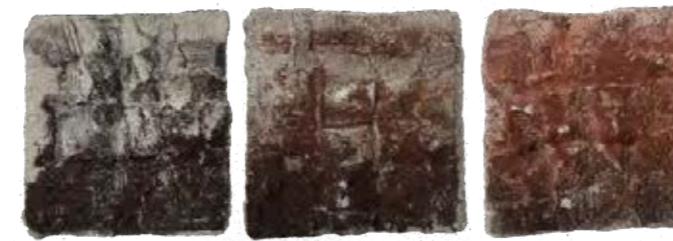


- Mineral Precipitation in Hot Springs



The phenomenon of hot springs leaving different traces on stone due to their materials, temperature, and the duration of exposure.

- Concrete Texture Model



Type 1
Water Stain
Type 2
Hot Spring 30 °C
Type 3
Hot Spring 40 °C

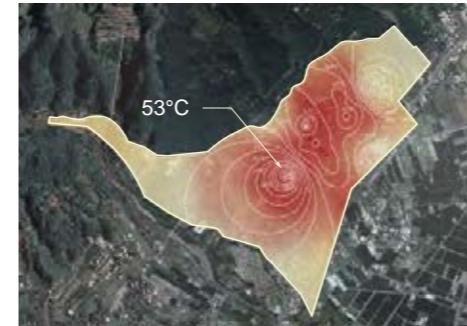
Using the texture of sandstone, to employ sampling techniques to extract design elements, thereby using the stone's materiality as a medium to chronicle thermal variations.

INFORMATION STATION

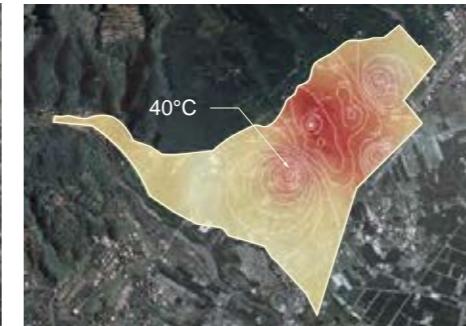


HOT SPRING TEMPERATURE CHANGE

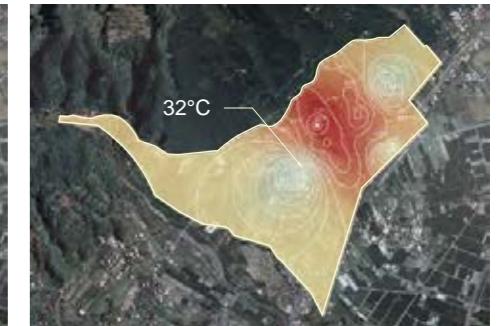
1980



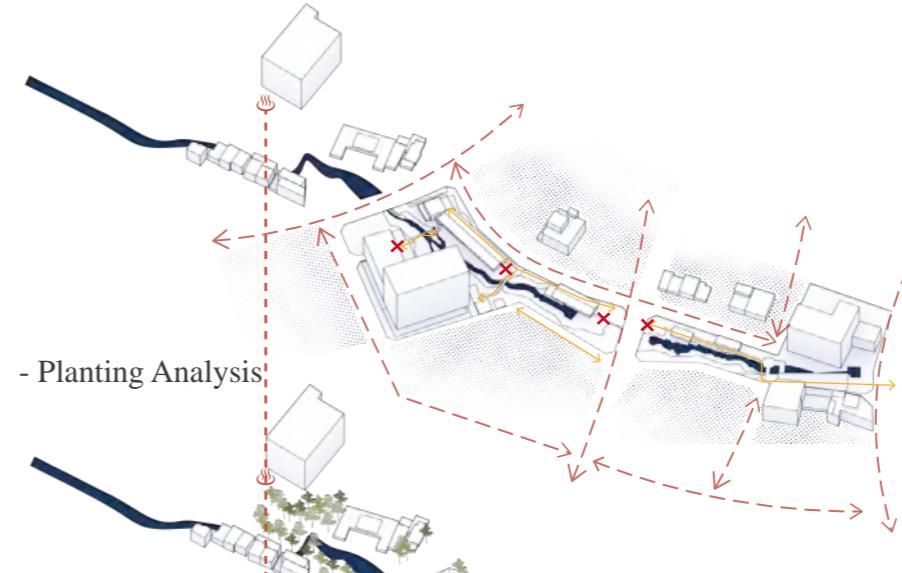
2000



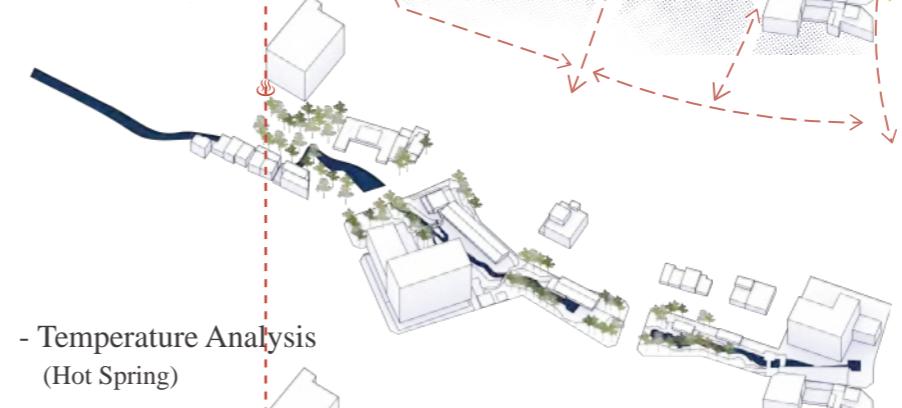
2020



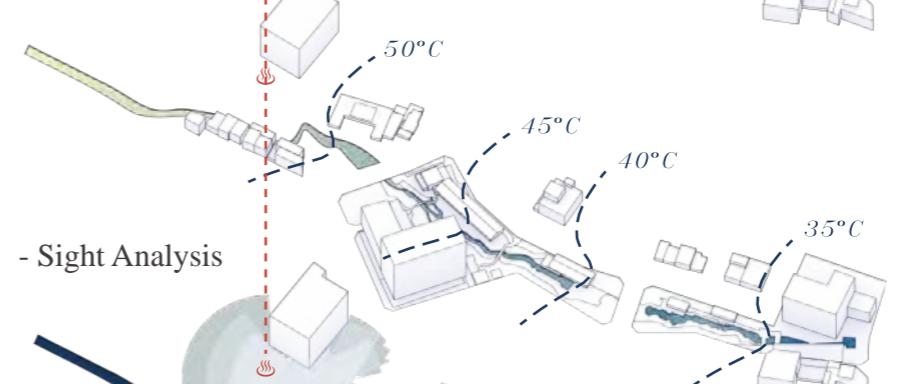
- Circulation Analysis



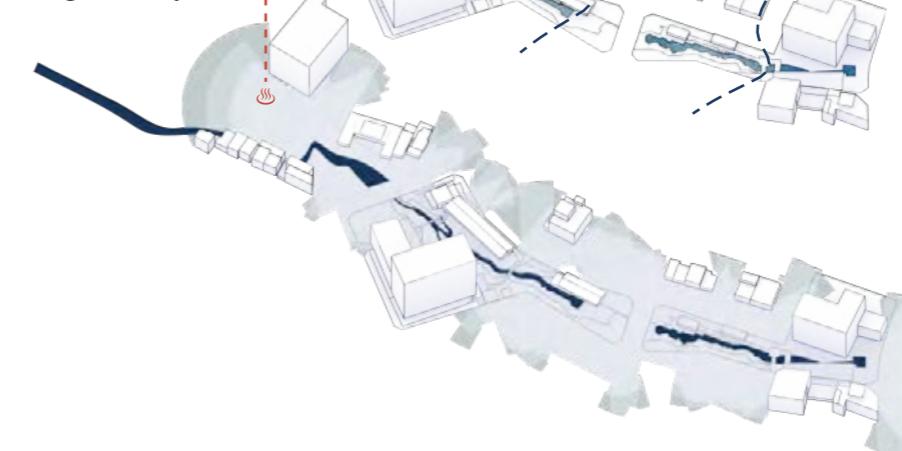
- Planting Analysis



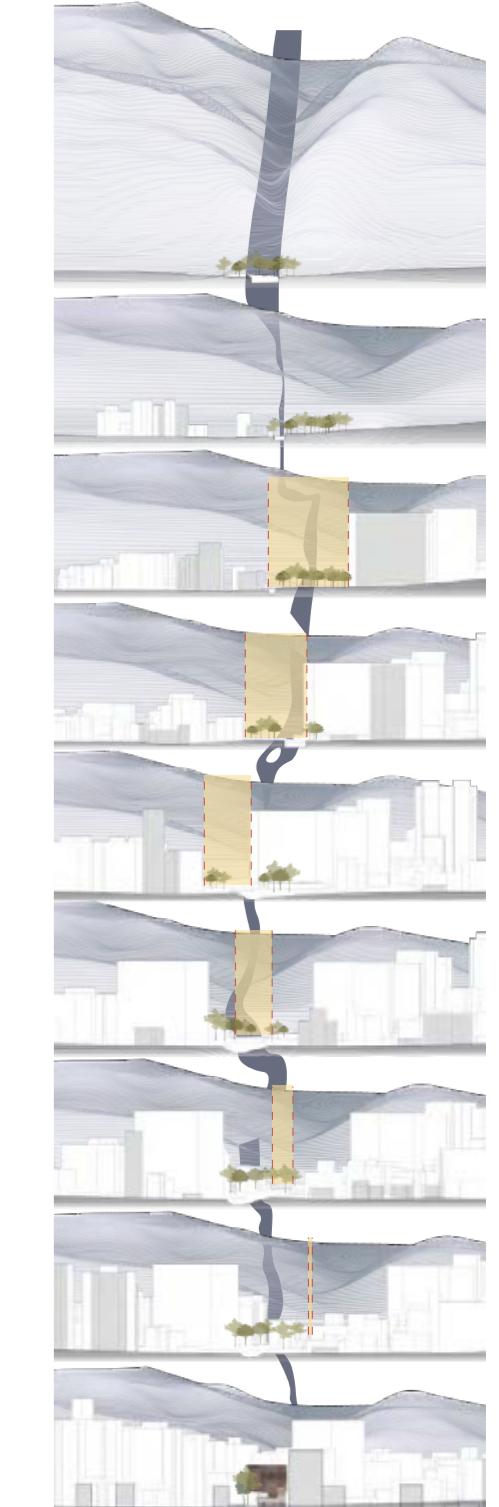
- Temperature Analysis (Hot Spring)



- Sight Analysis



- Section Analysis



HOT SPRING PARK SITE PLAN



500-Meter Long Hot Spring Waterway

The presence of the waterway, which is recurrently segmented, disrupts the continuity of the visitor experience in the park. Consequently, I am motivated to reimagine and transform the spatial journey throughout the Tangweigou hot spring area.

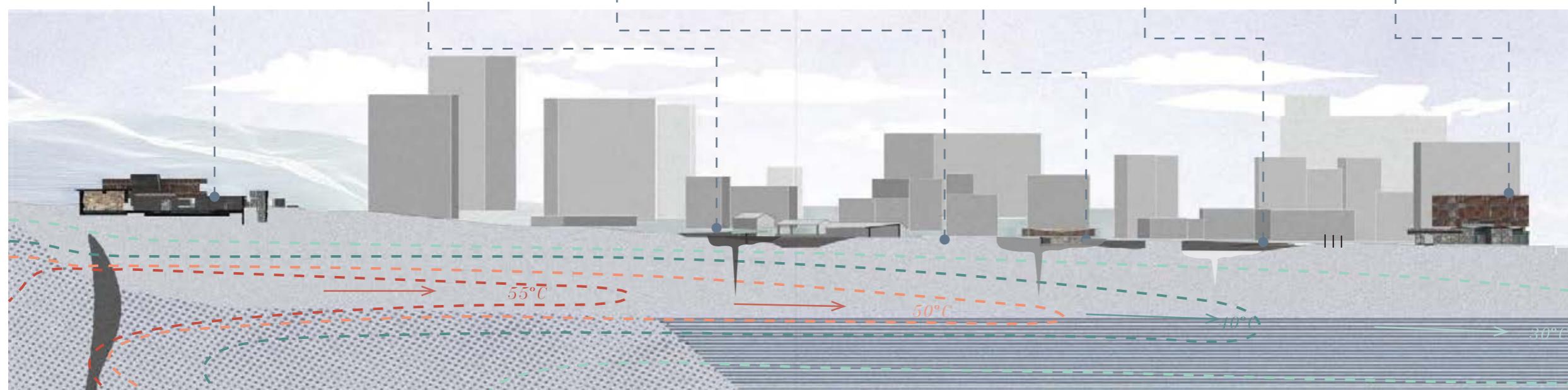
USER ACTIVITIES



Transform Visitors' Visual Perspectives

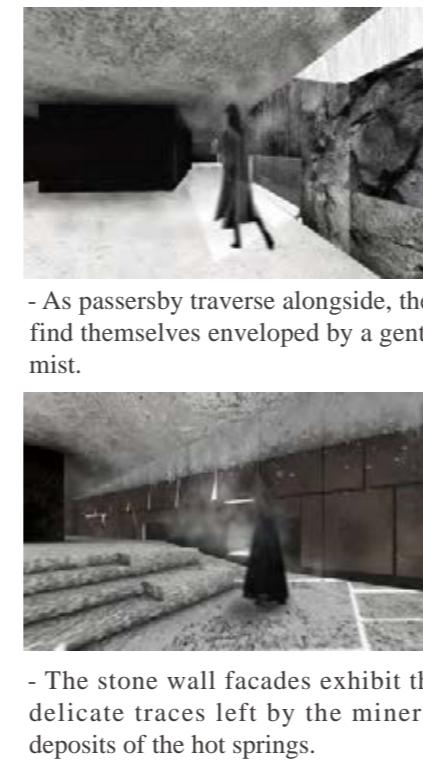
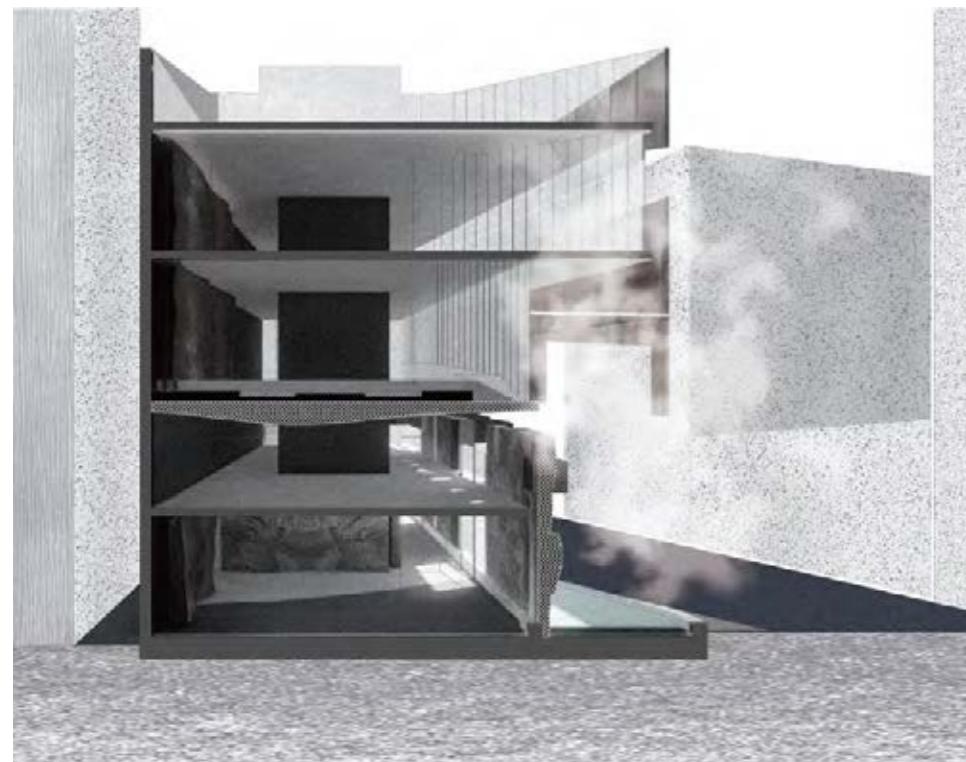
Therefore, my design initiates with the introduction of a distinctive structure within this lively thoroughfare, delineating the inception of the hot spring experience. Through the structures I have envisioned, my objective is to guide their sightlines to different elevations and vistas within the hot spring environment.

TERRAIN SECTION



Recording Hot Spring Temperatures by Wall

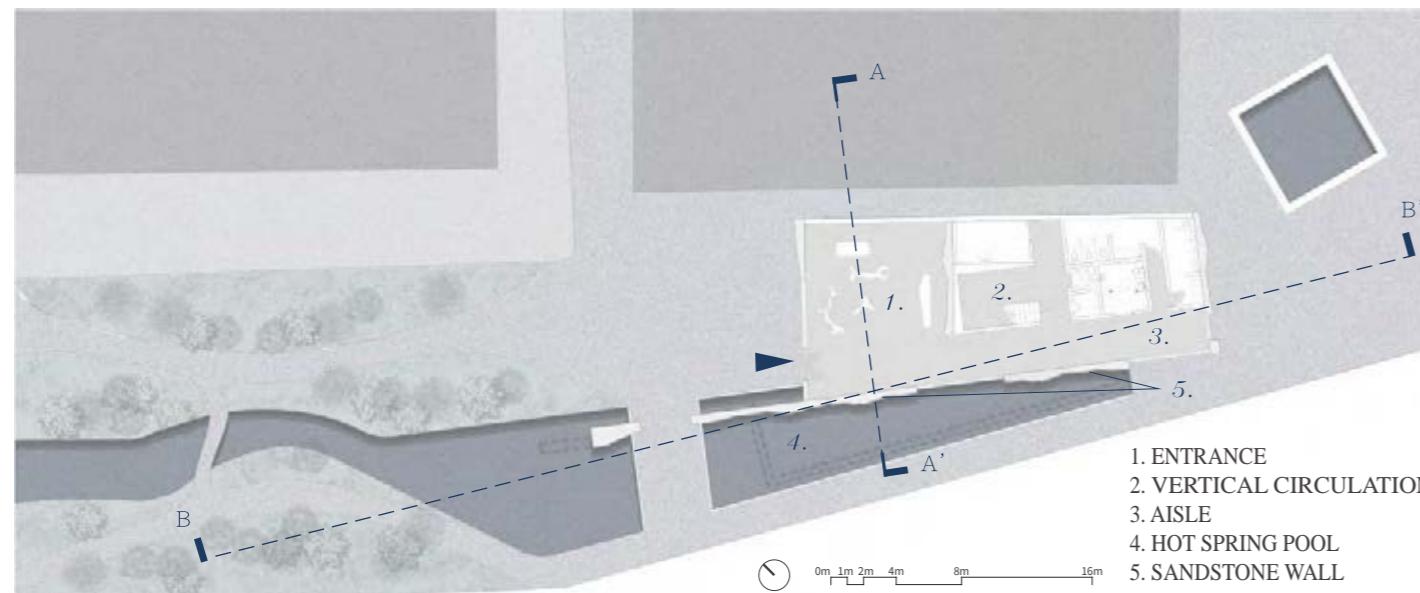
Observing the cross-section of Tangweigou, one notices that the hot spring's warmth originates from the left, with subsurface temperatures gradually diminishing in a stratified manner towards the right. By embedding a series of nodes within the stone walls, these become the chroniclers of change, where, over time, these walls will accumulate traces that reveal the underlying temperature variations.

A-A' SECTION

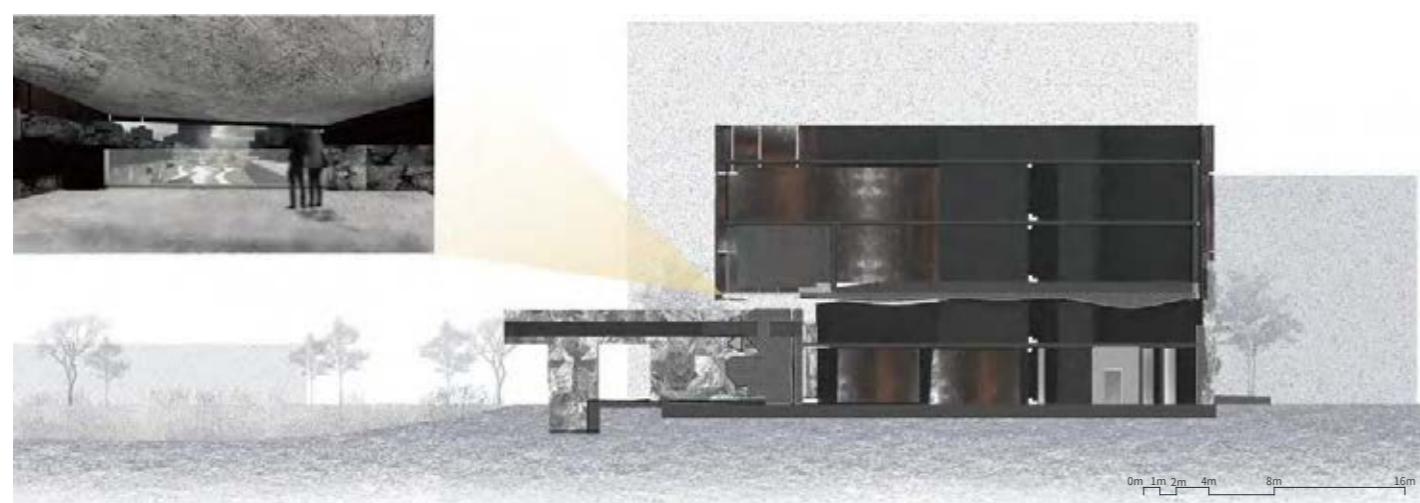
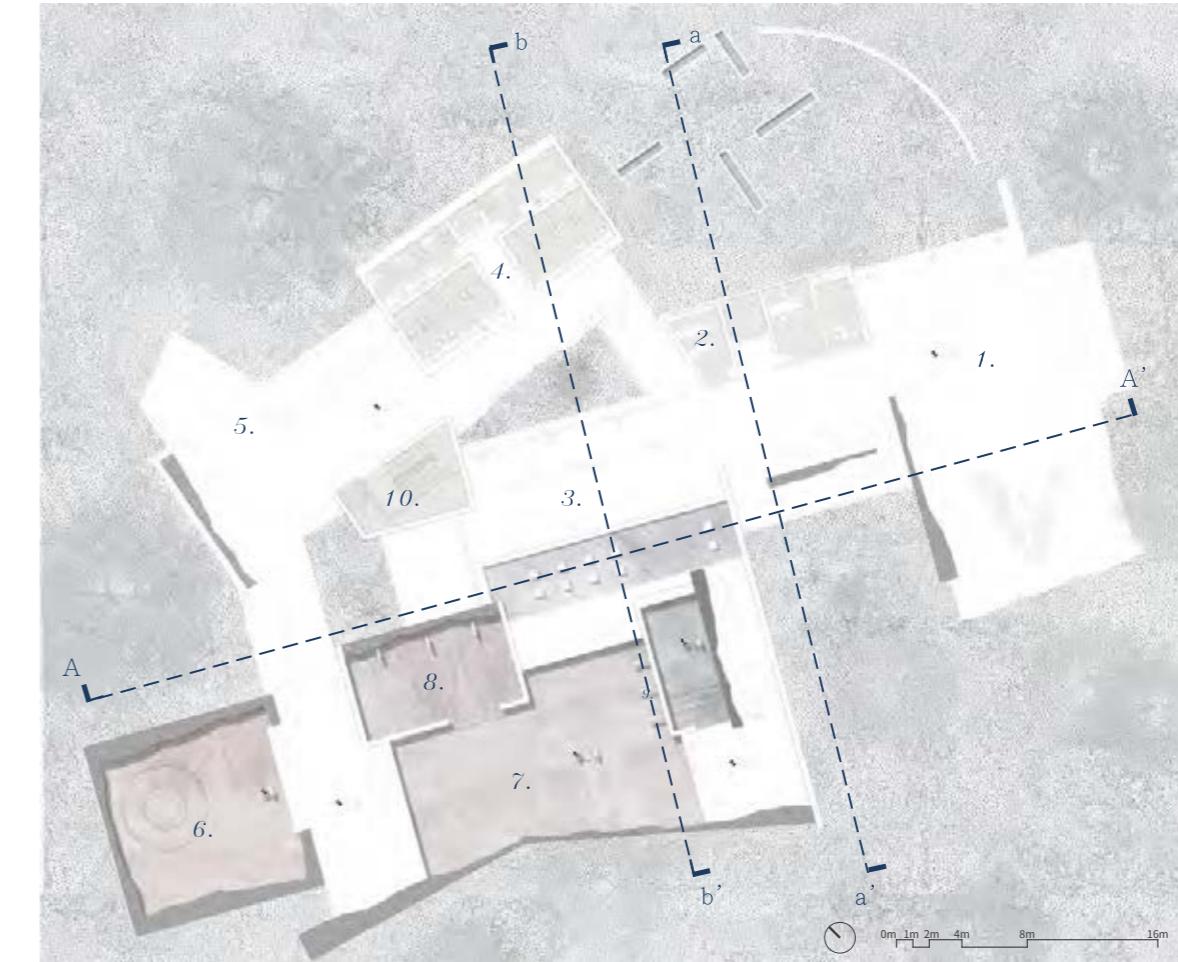
- As passersby traverse alongside, they find themselves enveloped by a gentle mist.



- The stone wall facades exhibit the delicate traces left by the mineral deposits of the hot springs.

INFORMATION STATION SITE PLAN

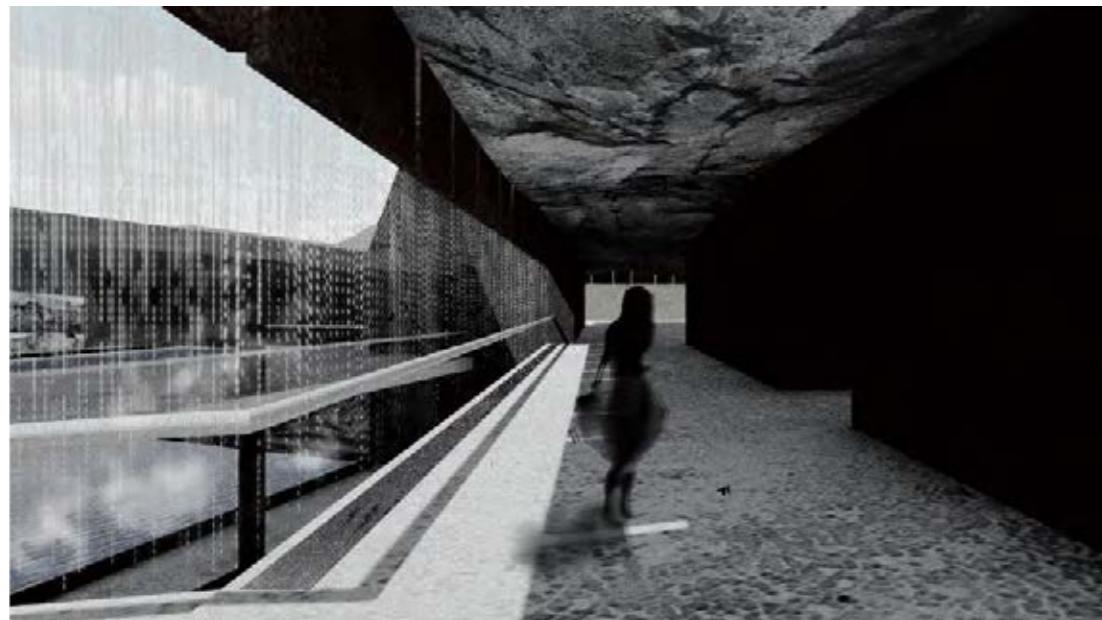
1. ENTRANCE
2. VERTICAL CIRCULATION
3. AISLE
4. HOT SPRING POOL
5. SANDSTONE WALL

B-B' SECTION**GROUND FLOOR PLAN**

1. ENTRANCE
2. SERVICE ROOM
3. REST AREA
4. CHANGING & SHOWER
5. WAITING AREA
6. FIRE BATH 58°C
7. OUTDOOR BATH (36°C in winter, 30-33°C in summer)
8. SOUND BATH 35°
9. COLD BATH 14°C.
10. VERTICAL CIRCULATION

BASEMENT LEVEL ONE

11. INDOOR BATH 42°C
12. SKYKIGHT LANDSCAPE
13. SAUNA
14. RAIN BATH 38°C
15. RAMP



AISLE

During Yilan's rainy seasons, the skylights create a theatrical display where curtains of water descend from above, crafting a mesmerizing interaction between nature and the built environment.



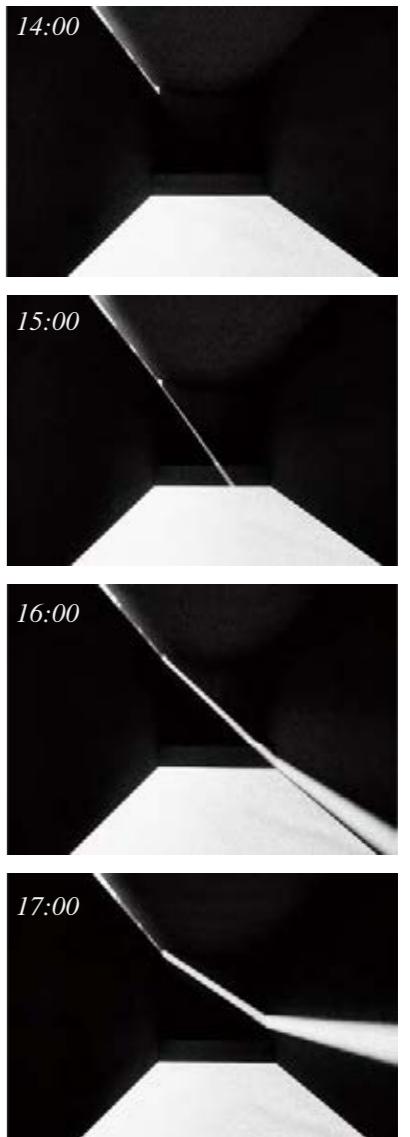
POOL ENTRANCE

When passing through this area, one can feel the cold breeze before stepping into the space filled with the hot steam of the hot springs.



OUTDOOR BATH

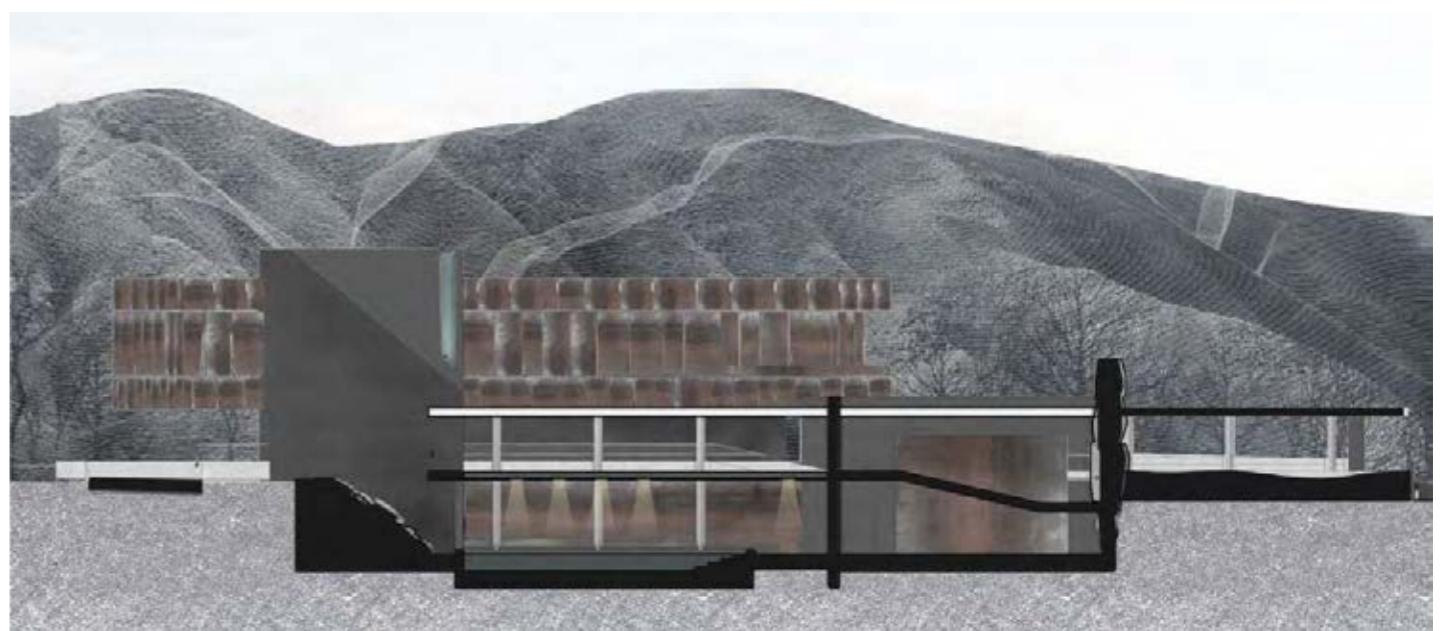
The temperature of the outdoor hot spring pools changes with the seasons, annual precipitation, and the varying temperatures of the groundwater table.



Thermal Landscape

As visitors tread barefoot upon the ground, a shift in texture underfoot signals their passage into a new realm. Above, apertures do more than simply usher in daylight; they transform into cascades during rainfall, weaving water curtains that descend to meet the pools below—a liminal space distinct from the hot springs. To the right, the design deliberately channels hot spring water to cascade downward, sculpting a wall whose surface evolves with the passage of time.

A-A' SECTION



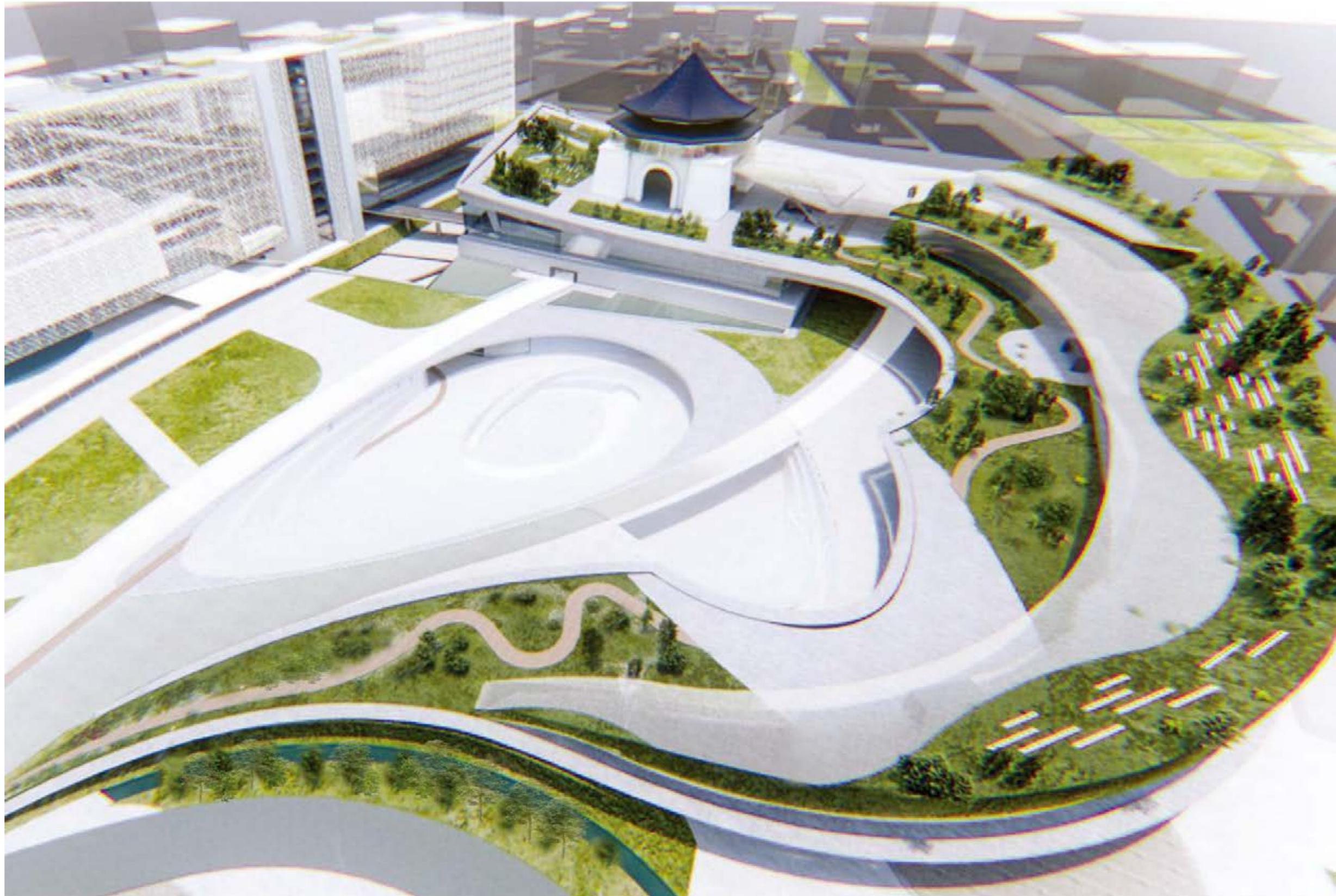
02 URBAN OASIS

The New National Central Library Park for Chiang Kai-Shek Memorial Hall

[Introduction]

This proposal seeks to reinterpret the Chiang Kai-shek Memorial Hall Park as a versatile urban living room, catering to individuals of all ages for activities such as reading, socializing, exercising, or simply relaxing. Taking the National Library as a focal point, the design introduces a sunken plaza that follows a winding axis, complemented by a 450-meter-long sloping path. This intervention is not just an aesthetic upgrade; it is a strategic move to shift the park's identity from a static monument to a dynamic space of engagement.

By embedding the concept of reading – a symbol of freedom and enlightenment – the project aims to subvert the area's former authoritative connotation, repurposing it as a democratic space returned to the people. In this reimagined park, the erstwhile symbols of power are transformed into backdrops for public life, encouraging diverse uses and community ownership.



Type / Group Work
Analysis, Site Plan, Model, Render

Instructor / Kwang-Tyng Wu

Period / Winter 2022

Site / Taipei, Taiwan

Award / Merit Award

Conceptual Design Competition for
Chiang Kai-Shek Memorial Hall

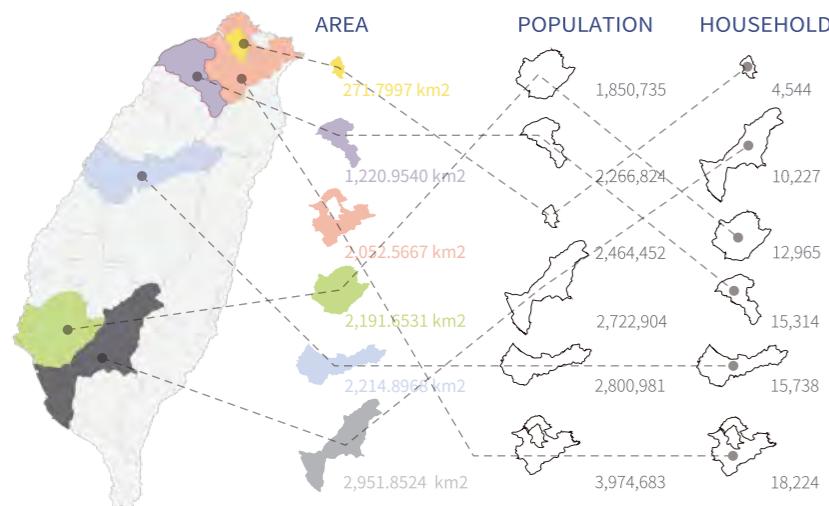
UNJUST HERITAGE SITE

"Authoritarian Leader Memorial Hall"

Chiang Kai-shek Memorial Hall Park

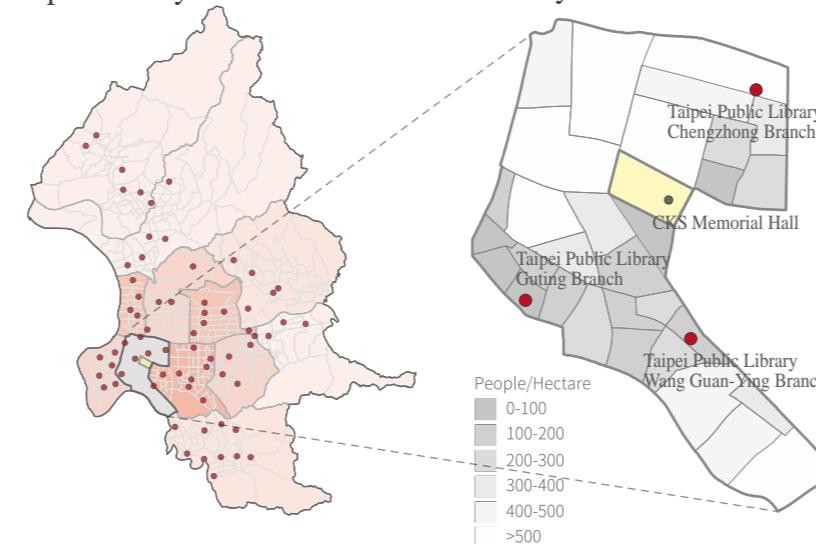
Established in 1980, occupying approximately 250,000 square meters, this Park is a vast expanse in the heart of densely populated Taipei City, originally dedicated to the memory of the authoritarian leader Chiang Kai-shek. Historically, this park has functioned as an oversized and undefined public space.

RESIDENTIAL POPULATION ANALYSIS

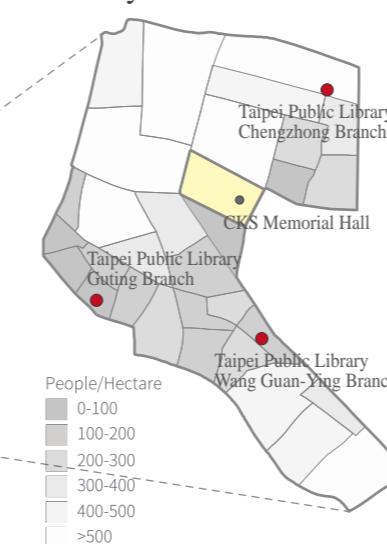


CURRENT SITUATION ANALYSIS

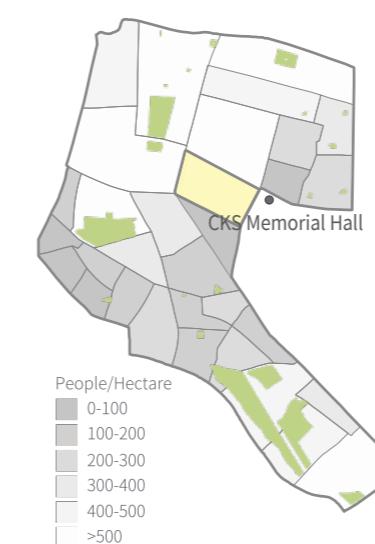
Taipei Library



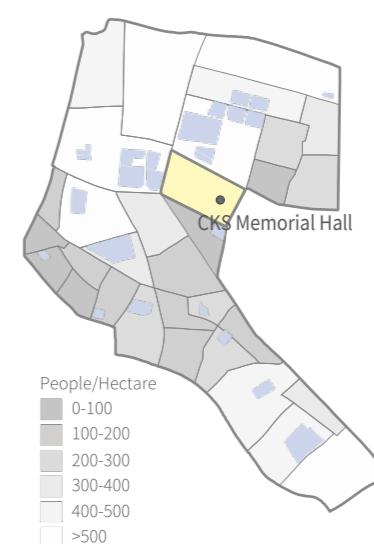
Library



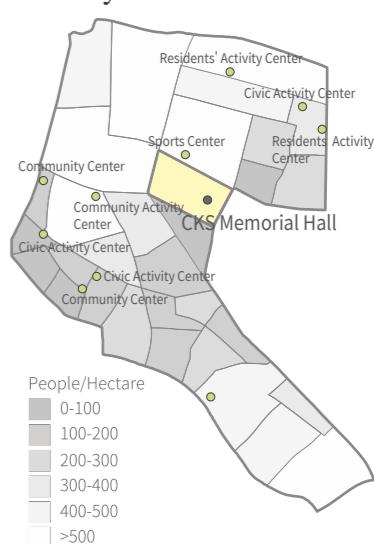
Park



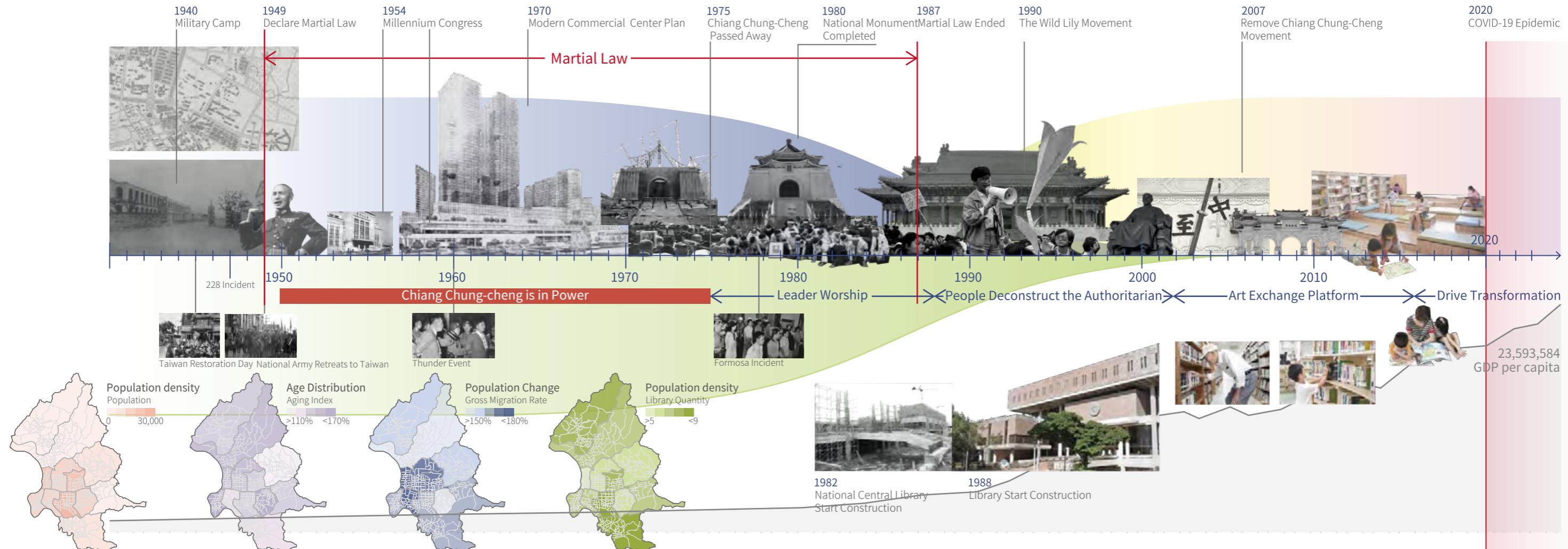
School



Activity Center



HISTORICAL ANALYSIS



STRATEGY

-Site Conditions



-Interior of the Memorial Hall



NEW IMAGE

- New Entrance Image



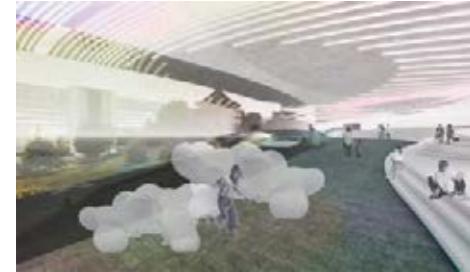
- Equality Sunken Plaza



- Outdoor Reading Area

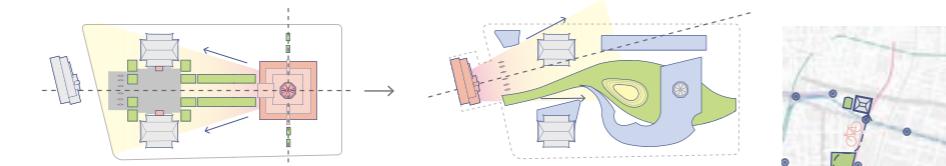


- Reading Area & Immersive Theatre

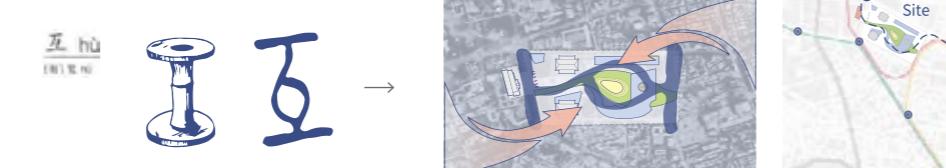


"Diminishing the Symbols of Authoritarianism"

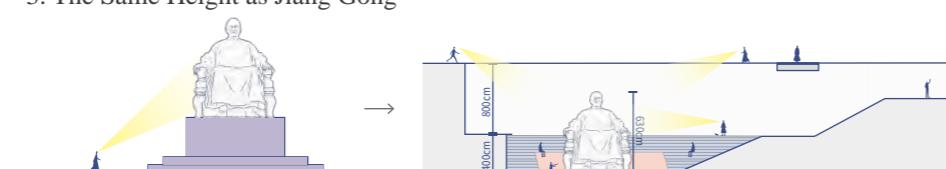
1. Power axis reversal



2. Ancient Chinese Characters



3. The Same Height as Jiang Gong



4. Bike Trial



BUILDING PROJECTION

The end of the hillside will be connected to Chiang Kai-shek Memorial Hall, and the body of the hall will be presented with the concept of burying in Nature to create an activity belt that stretches 450 meters. The curtain will have more abundant functions such as projection when holding events.

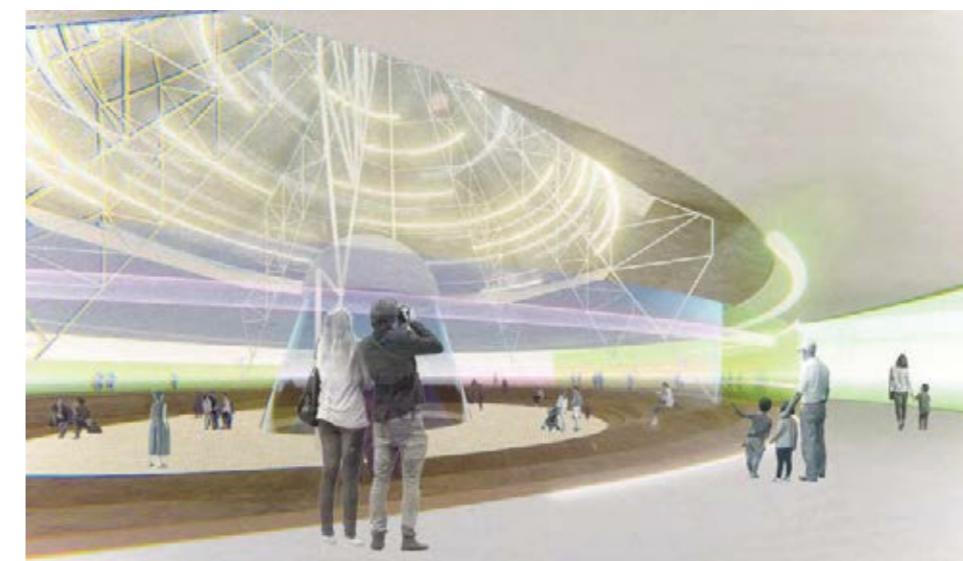
EXPLODED VIEWS

450m Activity Belt !



SOUTH SIDE VIEWPOINT

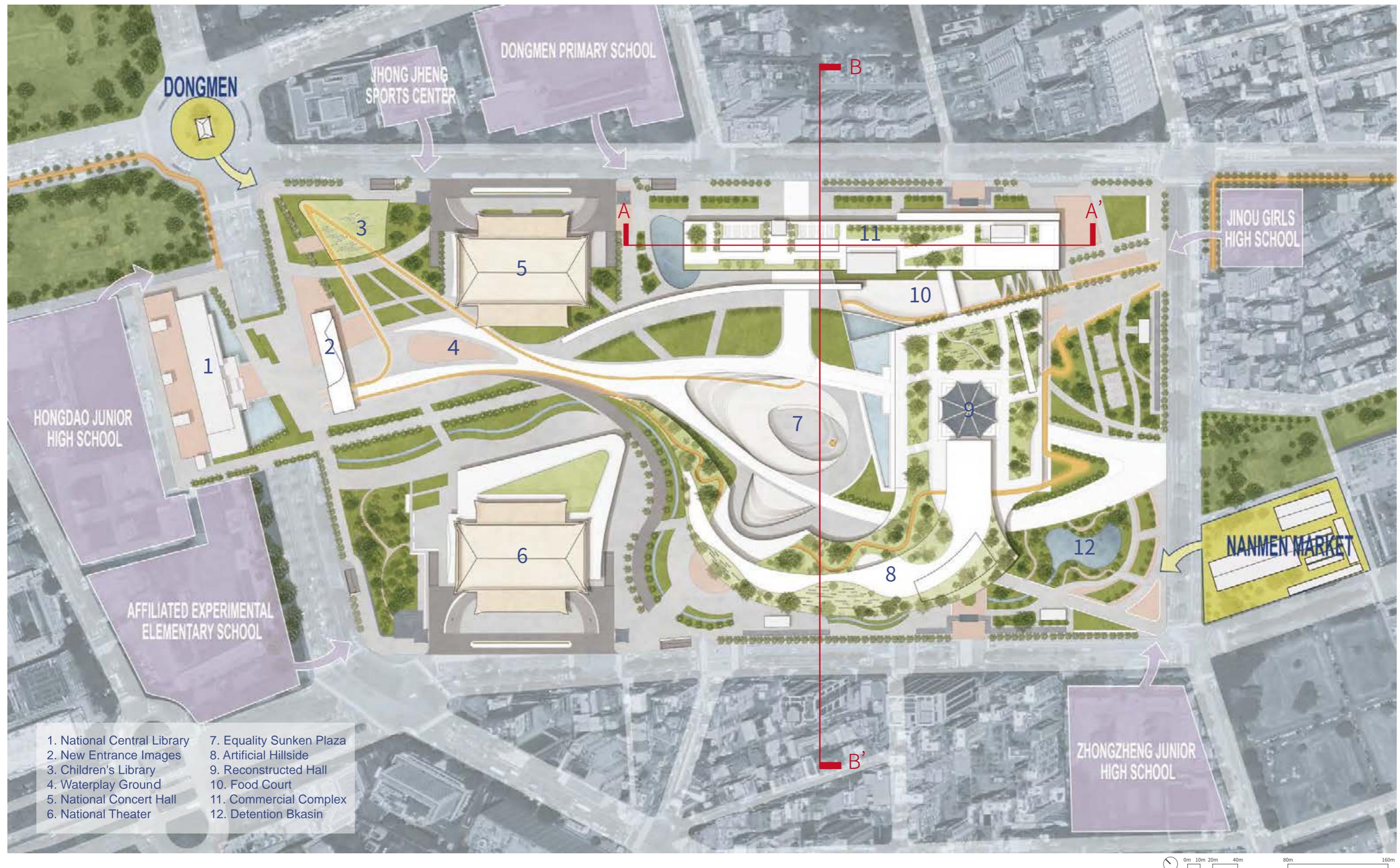
The proposal aims to provide all ages with reading, socializing, exercising, or just taking a rest, through this urban sofa project and to improve the quality of life of Taipei residents, while weakening the symbol of power and freeing up space back into the masses.



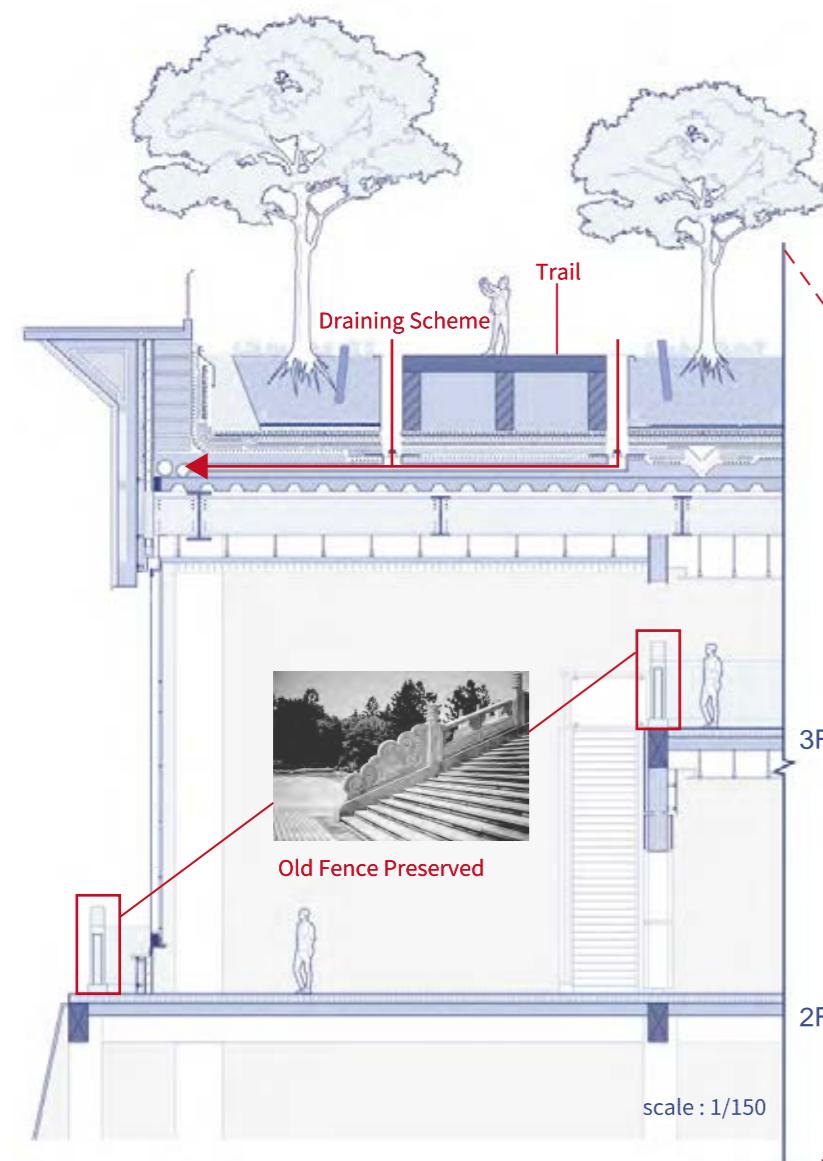
RECONSTRUCTED HALL

Transforming the interior of the memorial hall, originally intended for commemorative purposes, into an exhibition area for visitors, and opening up parts of the top-level structure.

SITE PLAN

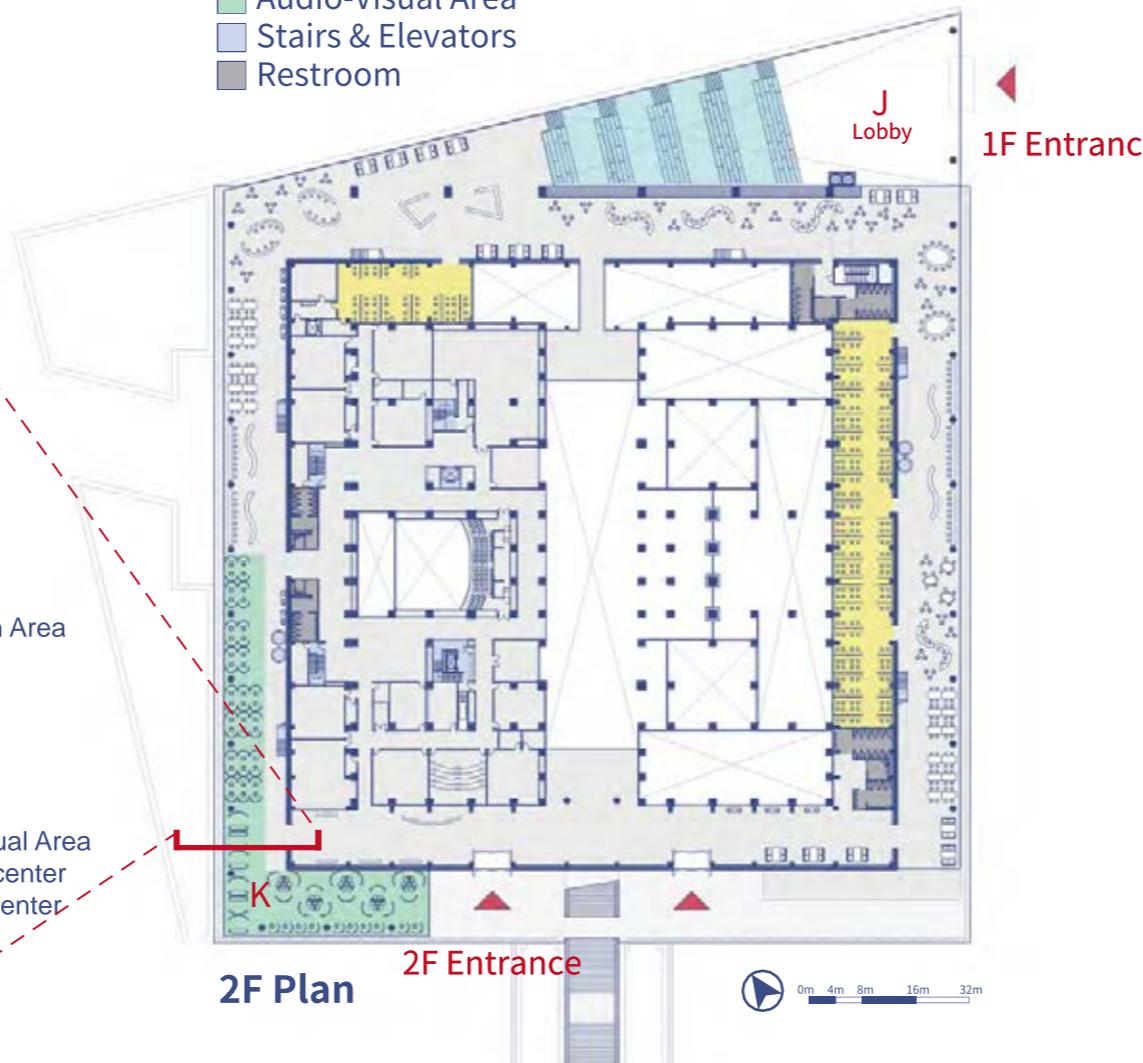


Details Section



Plan of Digital Library

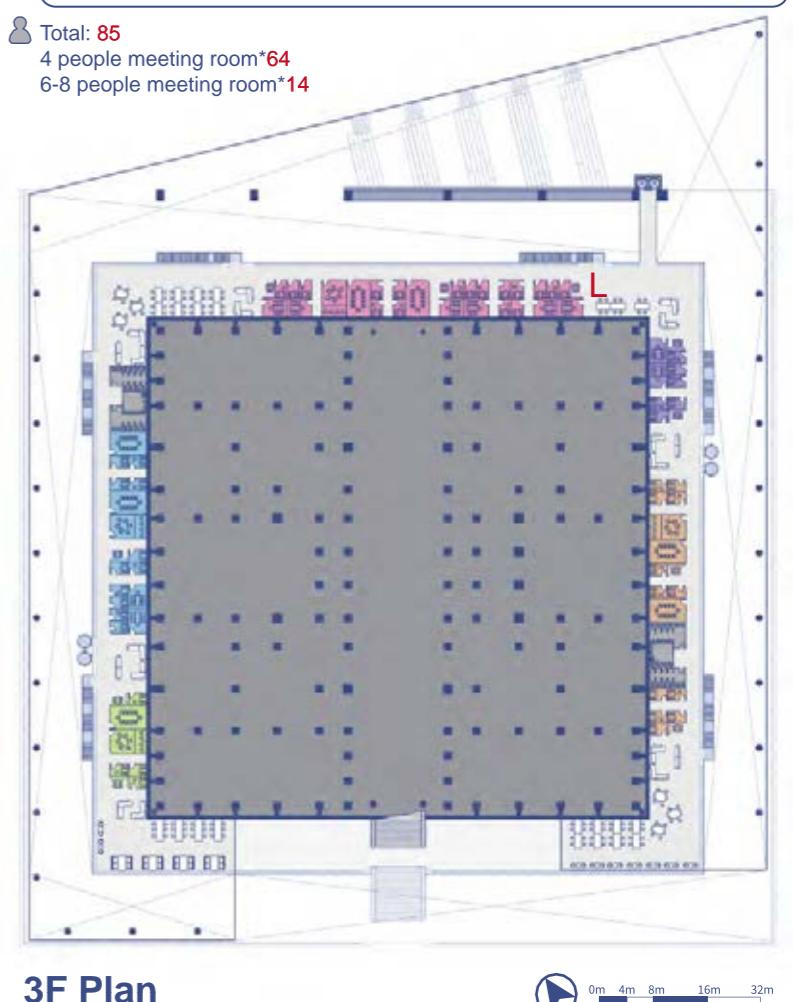
- Lobby Reading Area
- Studying center
- Audio-Visual Area
- Stairs & Elevators
- Restroom



Discussion Area A-E

4 people*7	4 people*13	4 people*21	4 people*8	4 people*15
6-8 people*1	6-8 people*3	6-8 people*7	6-8 people*2	6-8 people*12
12 people*1	12 people*2	12 people*14	12 people*2	12 people*2

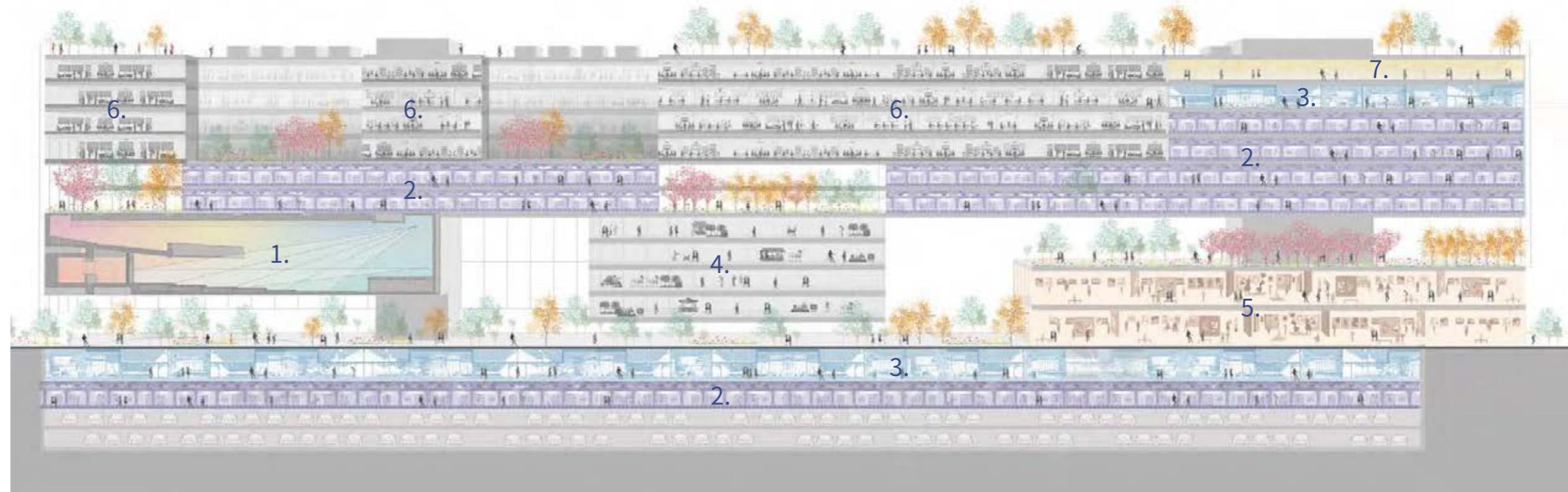
Total: 85
4 people meeting room*64
6-8 people meeting room*14

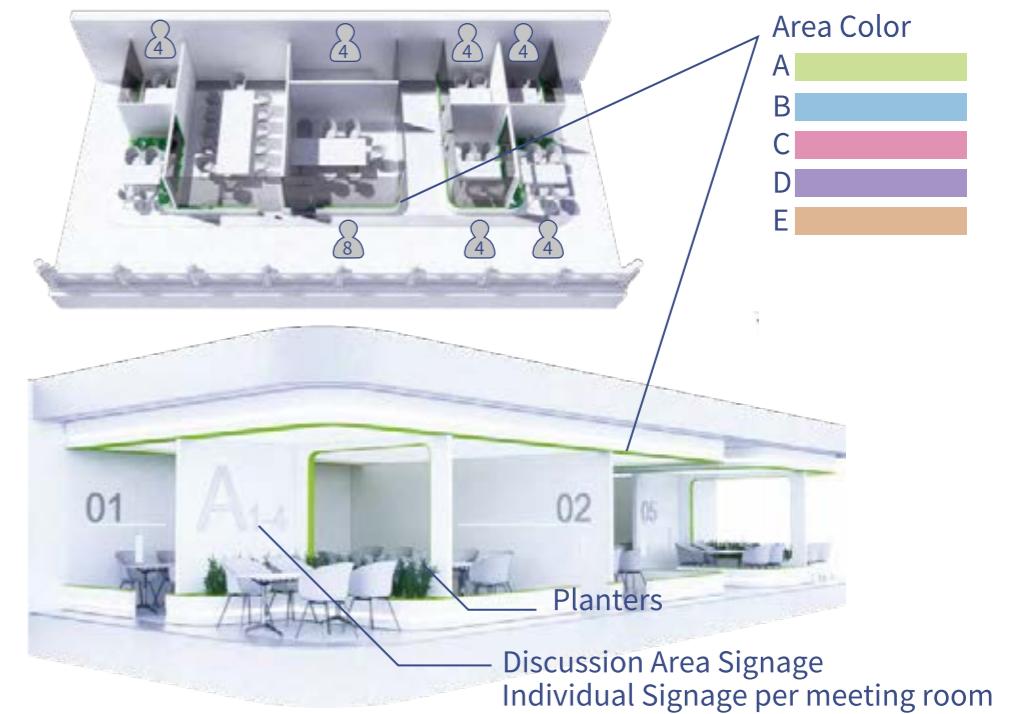


A-A' SECTION COMMERCIAL COMPLEX

We expect that the park can become the hub of the city in the near future, and through the insertion of different functions which can let the masses to gather and interact with each other, to be closer with the nature, and to create the new image of the capital.

1. Black Box Theater
2. Department Store
3. Food Court
4. Staircase Hall
5. Gallery
6. Business Center
7. Observatory Deck
8. Parking Lot



B-B' SECTION**DISCUSSION ROOM DESIGN DIAGRAM****DIGITAL LIBRARY ENTRANCE & LOBBY****AUDIO-VISUAL AREA****DISCUSSION ROOM IMAGE**





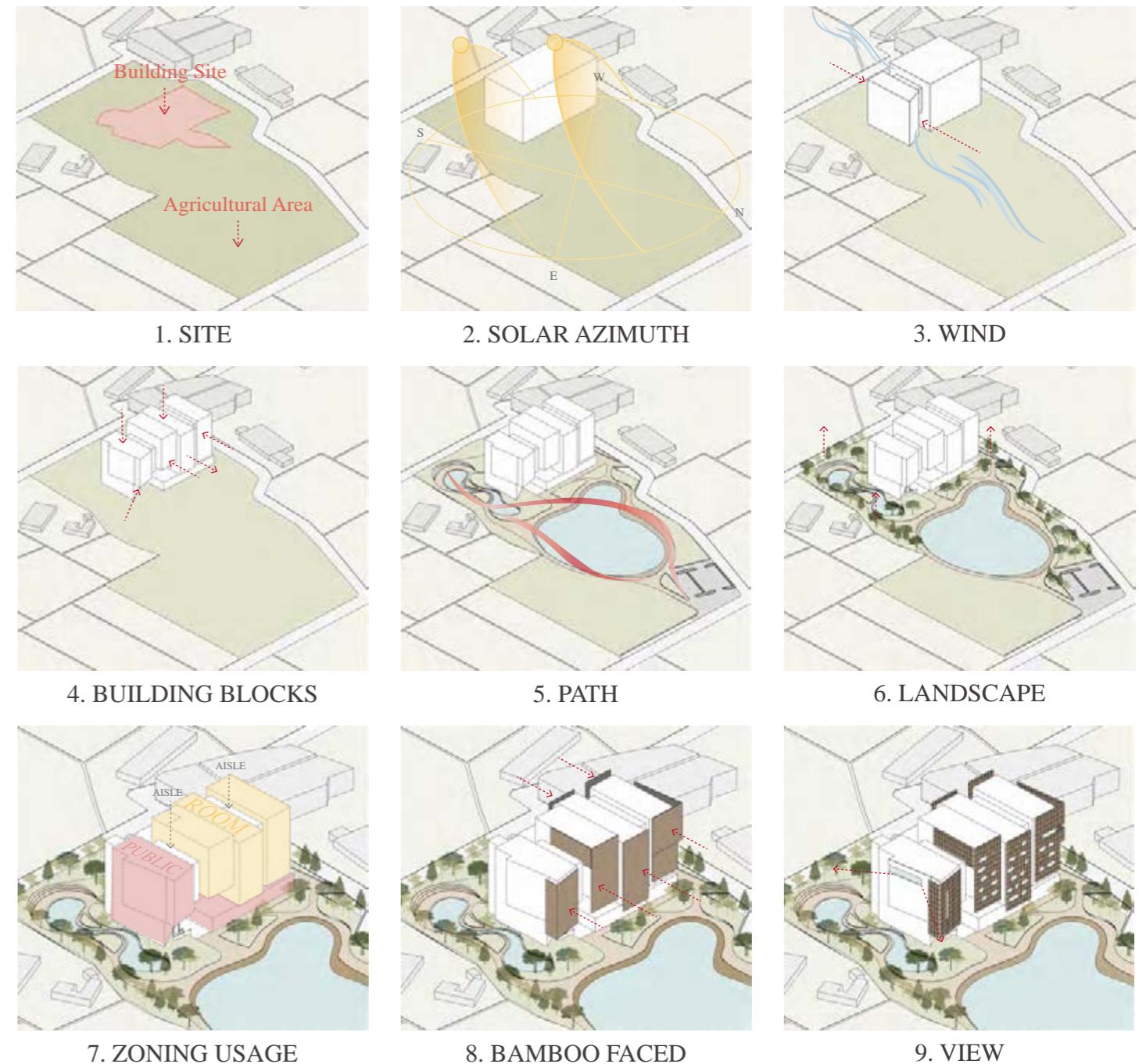
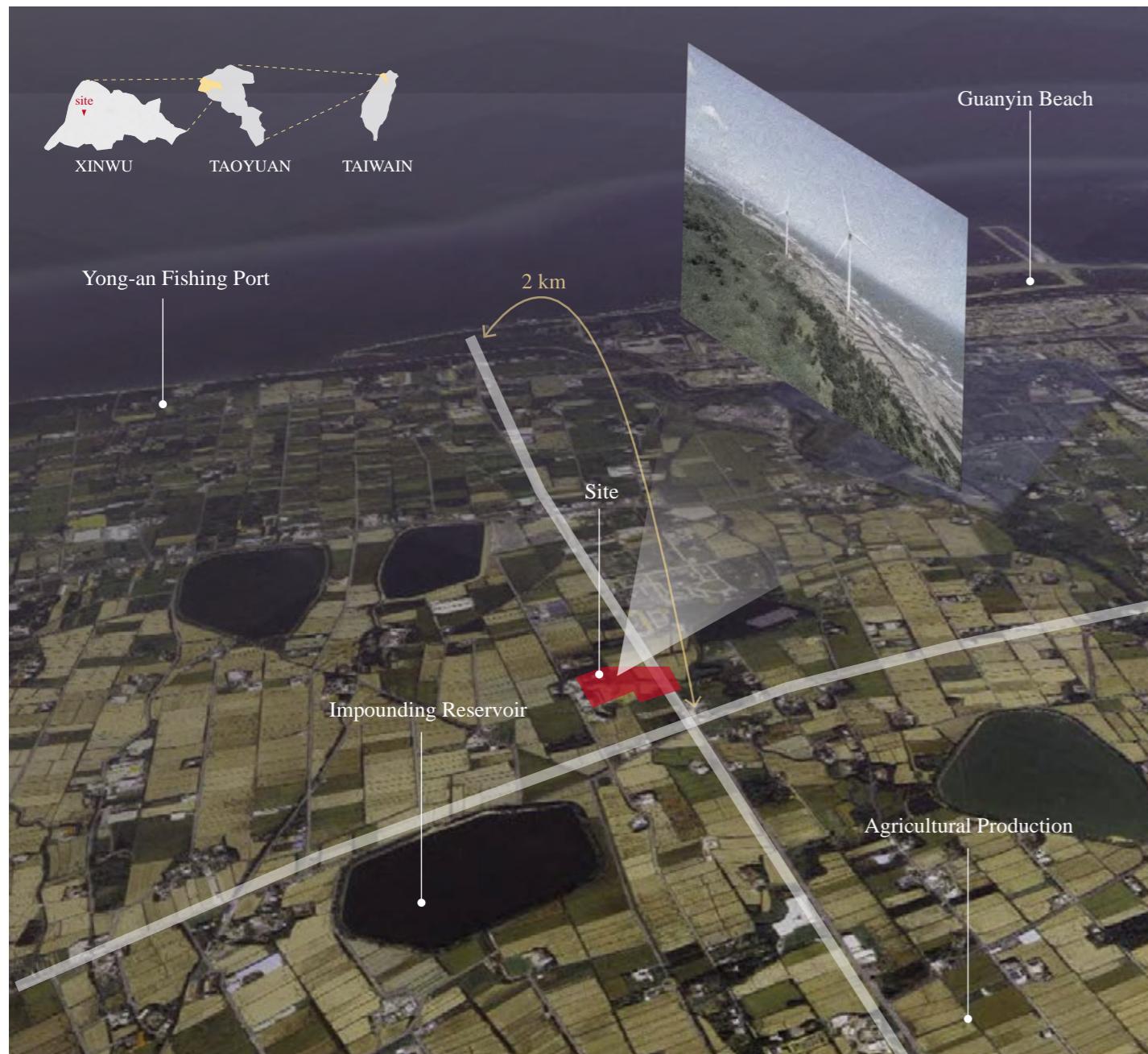
03 RISE THATCH RESORT

Leisure Resort Integrated with Agricultural Landscape

[Introduction]

The project situated in the heart of Taoyuan's agricultural district. Designed with sustainability in mind, it utilizes local materials such as bamboo and rice straw, reflecting the surrounding landscape of rice fields. The resort's architecture seamlessly blends with the natural environment, providing guests with a tranquil and authentic rural experience.

Type / Individual Work
Instructor / Shih-Ming Huang
Period / 2022
Site / Taoyuan, Taiwan



1. GROWTH STAGE



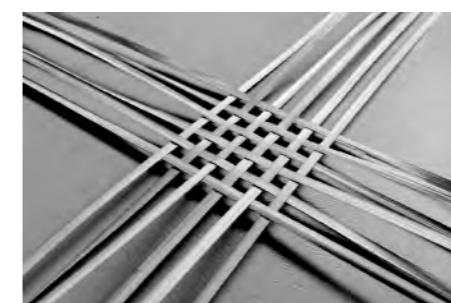
2. HEADING STAGE



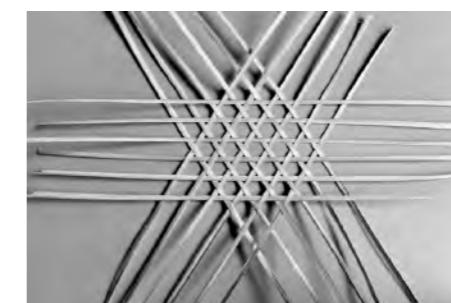
3. HARVESTING PERIOD

RICE PADDY FIELDS

The Xinzhuang area boasts that up to 50% of its land is dedicated to rice paddy fields, where the natural landscape ebbs and flows with the seasons. Reflecting the sky above, the paddies shift from the mirrored sheen of water to vibrant green, and eventually to a golden hue as the crops mature.



1. SQUARE



2. HEXAGONAL



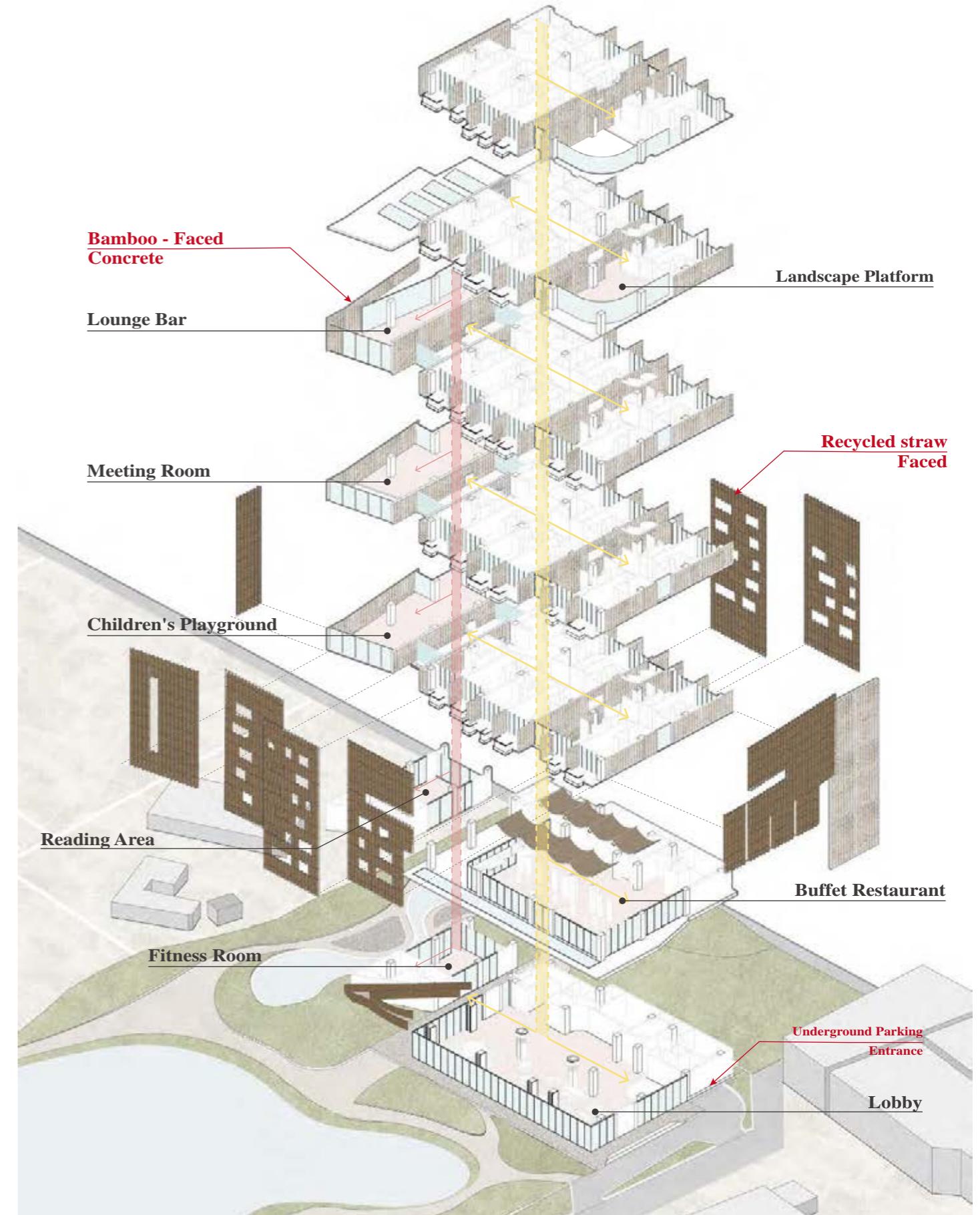
3. SINGLE-CIRCLE

HAKKA WEAVING

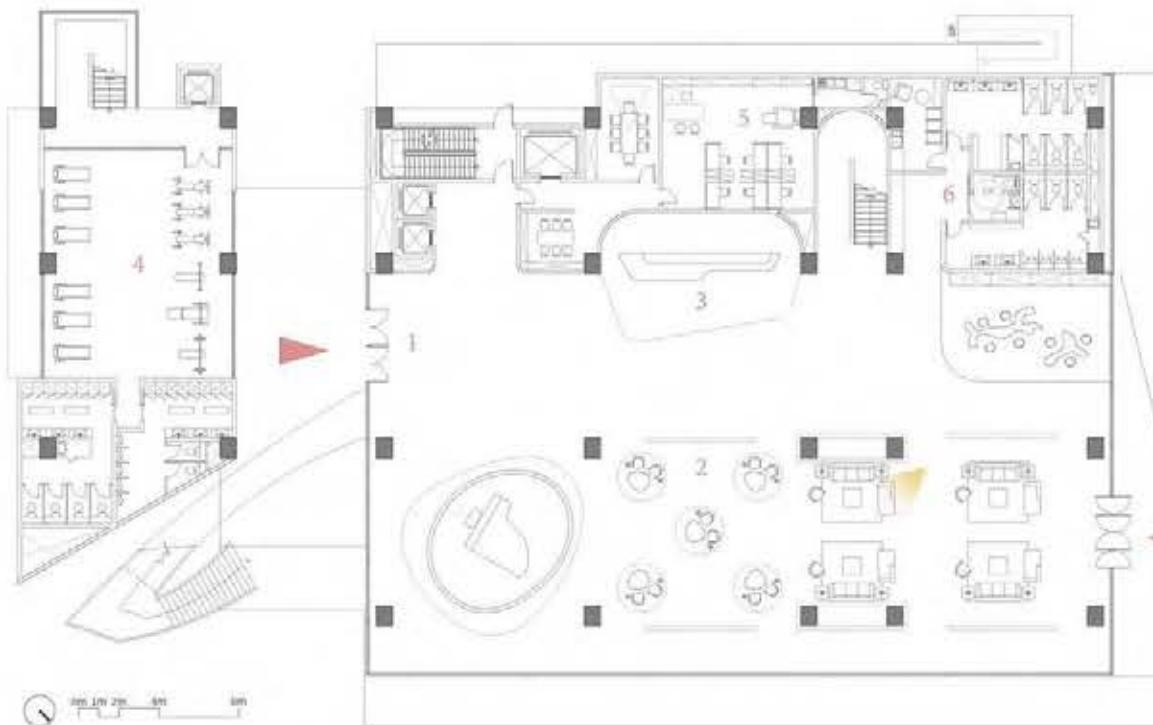
Utilizing the rice straws that are left behind after harvest and would otherwise be discarded, we apply the traditional Hakka weaving techniques indigenous to the area to craft a novel construction material.

**SITE PLAN**

Integrating the regional characteristics of local paddy rice production, plan a vacation villa that combines leisure and agricultural experience.

**EXPLODED VIEW**

The relaxation and entertainment areas are separated from the accommodations to ensure that guests can enjoy their holiday without disturbance. The landscape platforms offer sweeping views of the distant seascape.



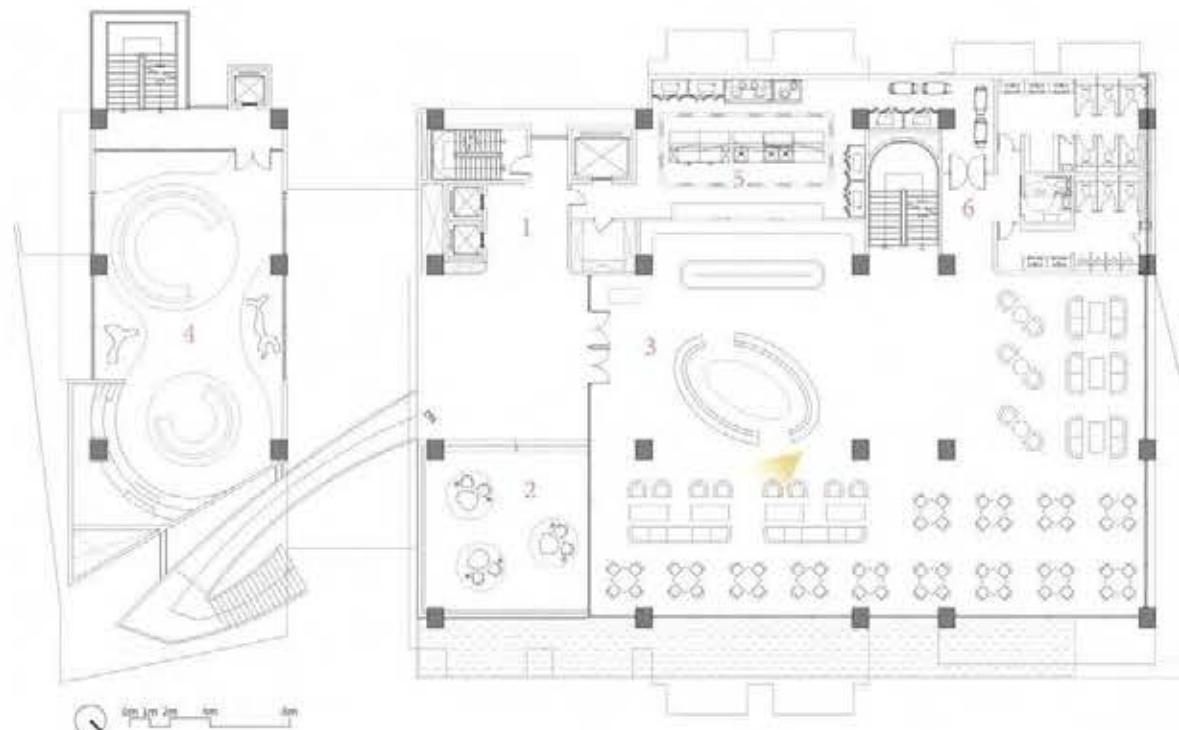
1F PLAN

1. MAIN ENTRANCE
4. FITNESS ROOM
2. LOBBY
5. OFFICE
3. RECEPTION
6. RESTROOM



LOBBY LOUNGE

The first-floor lobby lounge provides a comfortable waiting area, with a ceiling adorned with ribbons of bamboo woven in traditional styles, reflecting the local material character.



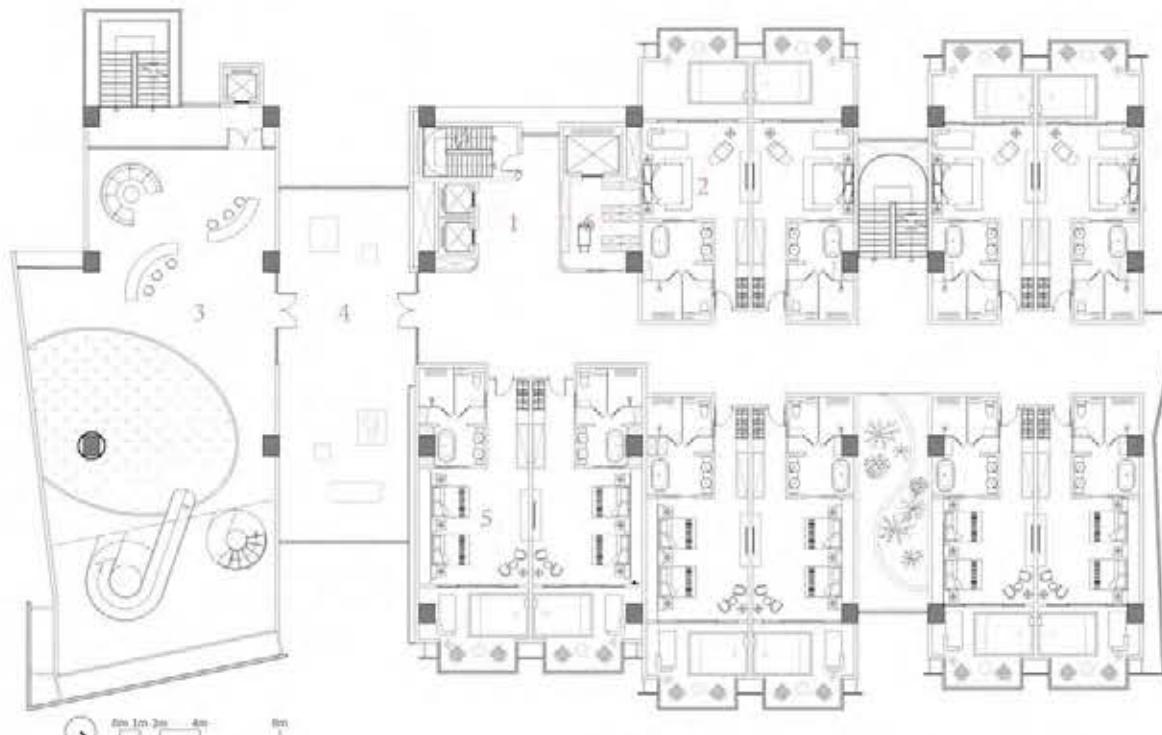
2F PLAN

1. ELEVATOR
4. READING AREA
2. RESTING PLATFORM
5. CENTRAL KITCHEN
3. BUFFET RESTAURANT
6. RESTROOM



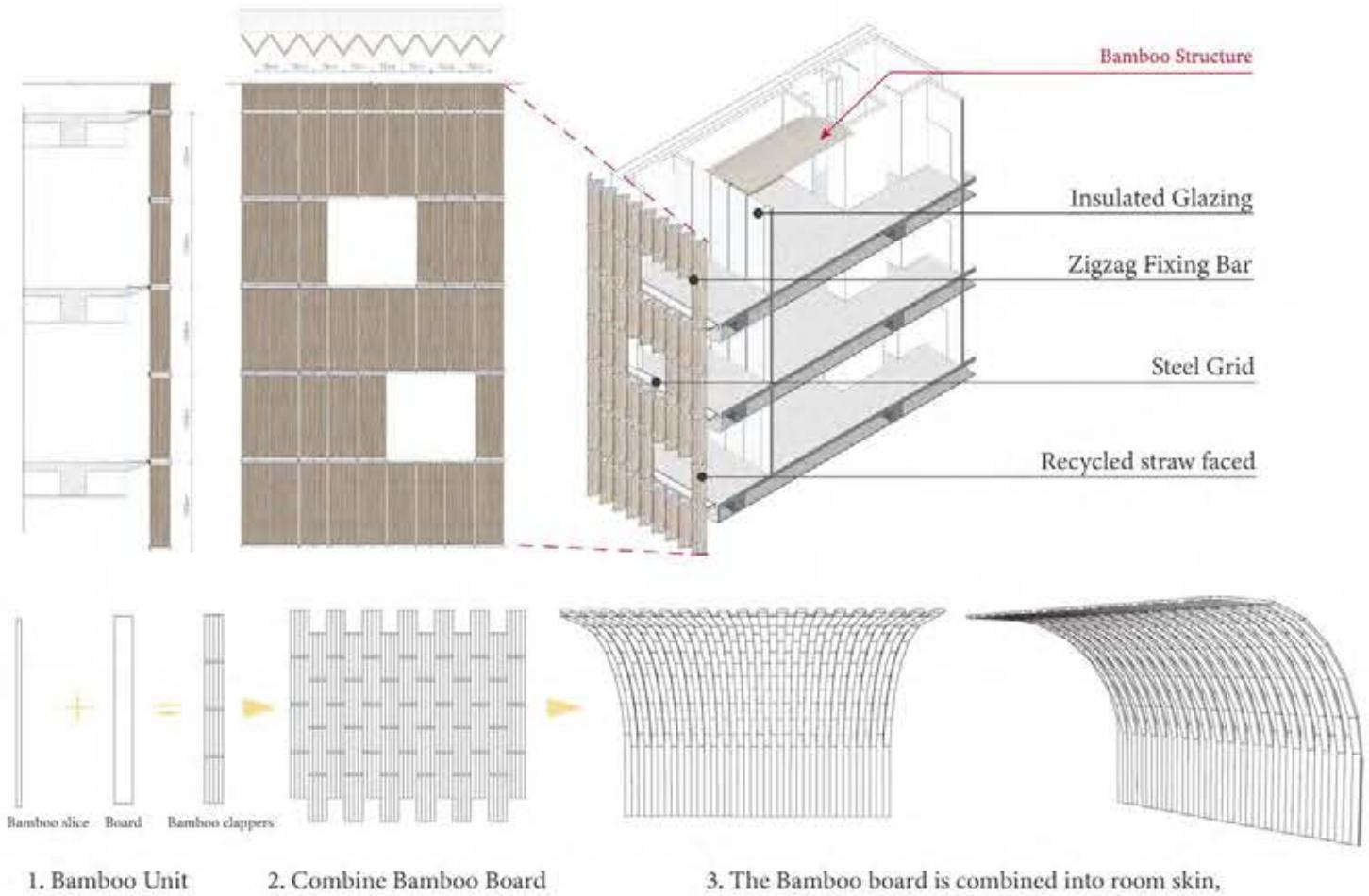
BUFFET RESTAURANT

The second-floor restaurant offers panoramic views of the entire park, with scenes that shift with the changing seasons. Featuring a ceiling crafted using the traditional Hakka technique of square weaving, it creates a distinctive space that celebrates the cultural heritage of the region.



3F PLAN

- 1. ELEVATOR
- 2. DOUBLE ROOM
- 3. CHILDREN'S PLAYGROUND
- 4. GALLERY
- 5. TWIN ROOM
- 6. LAUNDRY FACILITIES



1. Bamboo Unit 2. Combine Bamboo Board

3. The Bamboo board is combined into room skin, weakening the concept of wall and roof



BAMBOO STRUCTURE

The interior walls of the rooms incorporate an innovative design, utilizing reclaimed bamboo and timber to construct a durable and visually compelling structural feature.



RECYCLED STRAW FACED

The building's facade is engineered with a layer of processed and woven rice straw, repurposed from harvested fields, providing a breathable and light-permeable architectural skin.



04 TIAN-MA MEMORIAL GROUP

The Interior Design Professional Proposal for Life Memorial Hall

REQUIREMENTS :

- More than 10,000 columbariums (Three different prices separately)
- Normal price area: Open space , account for 50%
 - Middle price area: with compartment, account for 30%
 - High price area: with private room , account for 20%

Type / Individual Work
Instructor / Ai-ling Huang
Period / 2022
Site / Kuala Lumpur, Malaysia

THEME

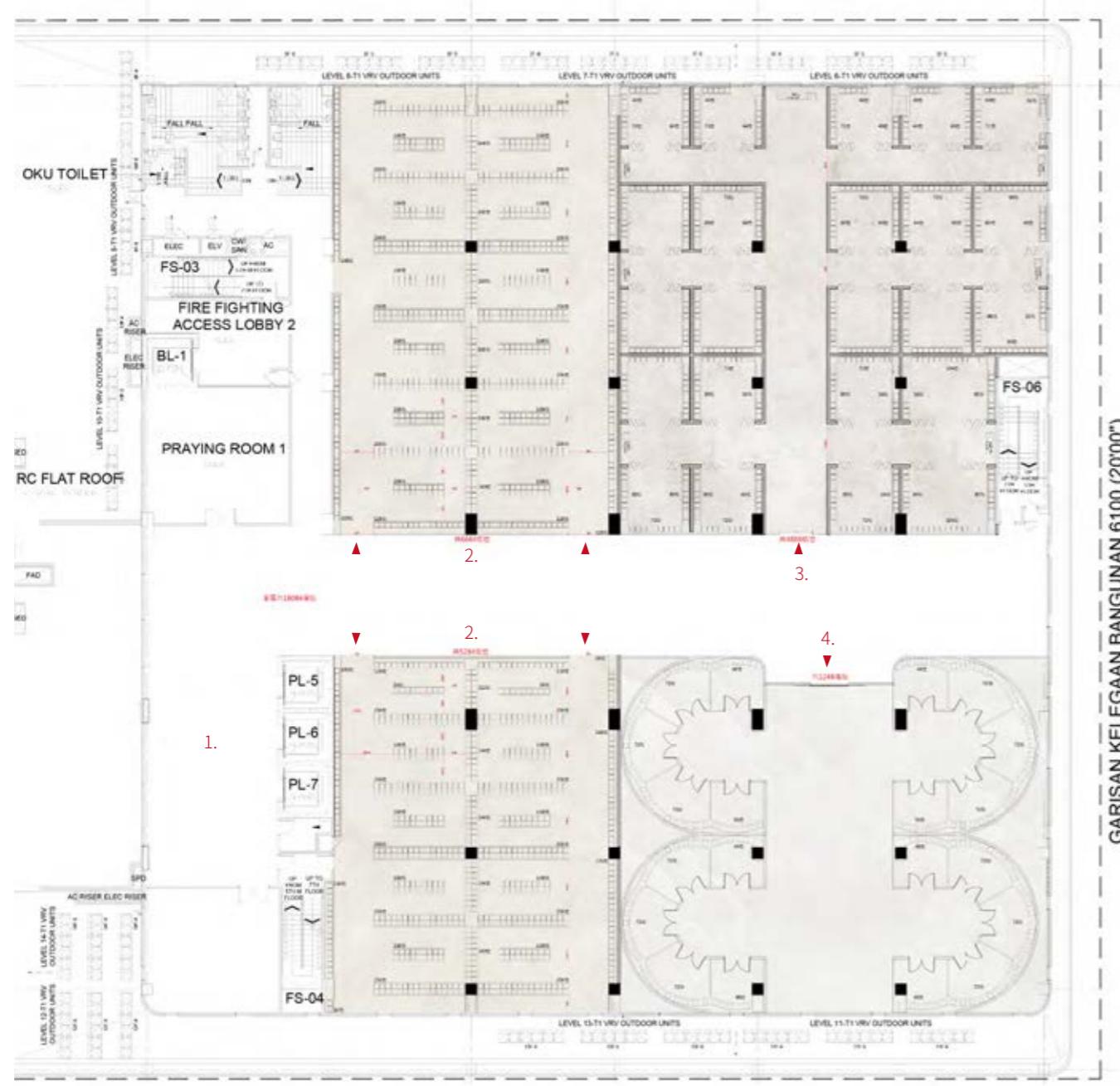
绵绵瓜瓞



A Life Memorial Hall is a place within Chinese culture used for commemorating deceased family members. Urns containing ashes are often placed in cabinets within these halls, allowing descendants to come and pay their respects.

The imagery of melons thriving and growing all around is derived from the auspicious symbolism in Chinese culture, representing the prosperity of offspring, the transmission of generations, and the continuity of life. This symbolism is derived from the "Da-Ya" section of the Book of Songs.

PLAN



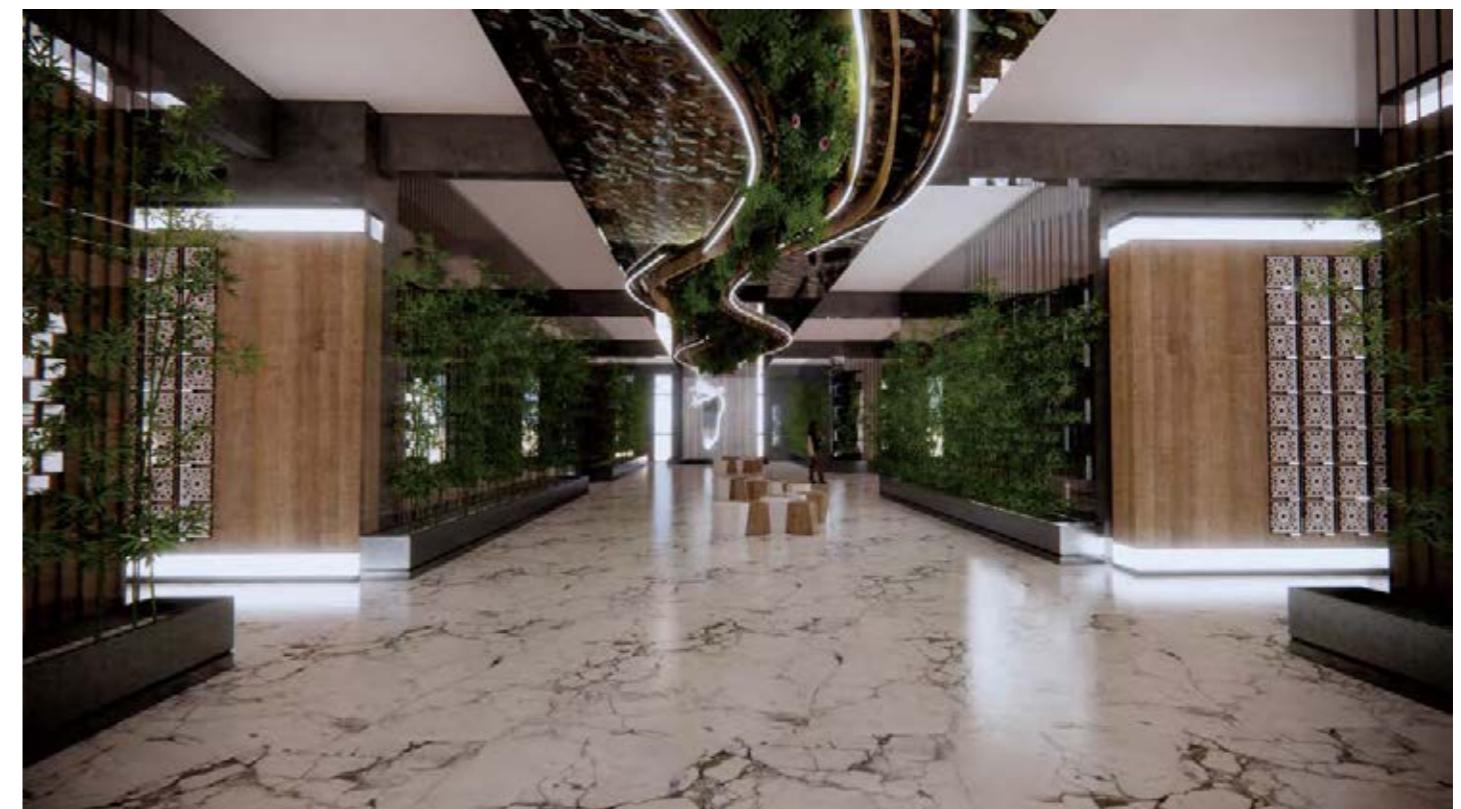
1. LOBBY
3. MID-PRICED AREA

2. ECONOMICAL PRICE AREA
4. HIGH PRICED AREA



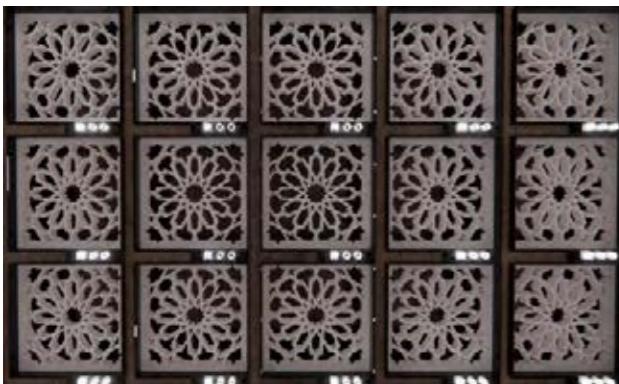
HIGH-PRICED WAITING AREA

Each family has its individual compartment and access to a comfortable public lounge area. Unlike traditional solemn memorial places, the new one aims to provide a comfortable space for the relatives who come to mourn.

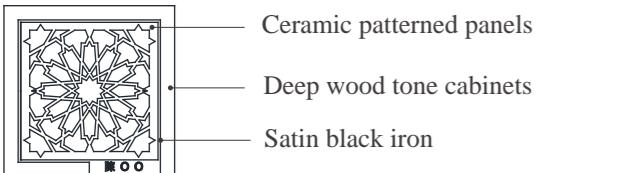


PUBLIC AISLE

Creating an image of the endless growth of plants through curved streamlined lighting and corrugated mirrored metal panels in the design of public walkways.



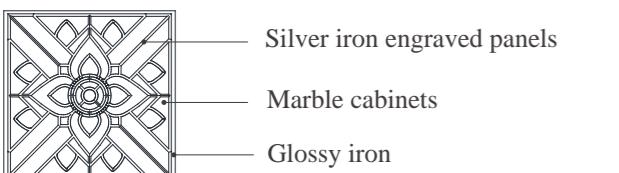
Economical Price Columbarium



- Ceramic patterned panels
- Deep wood tone cabinets
- Satin black iron



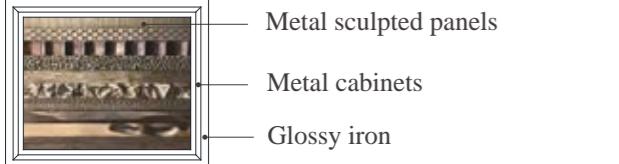
Mid-Priced Columbarium



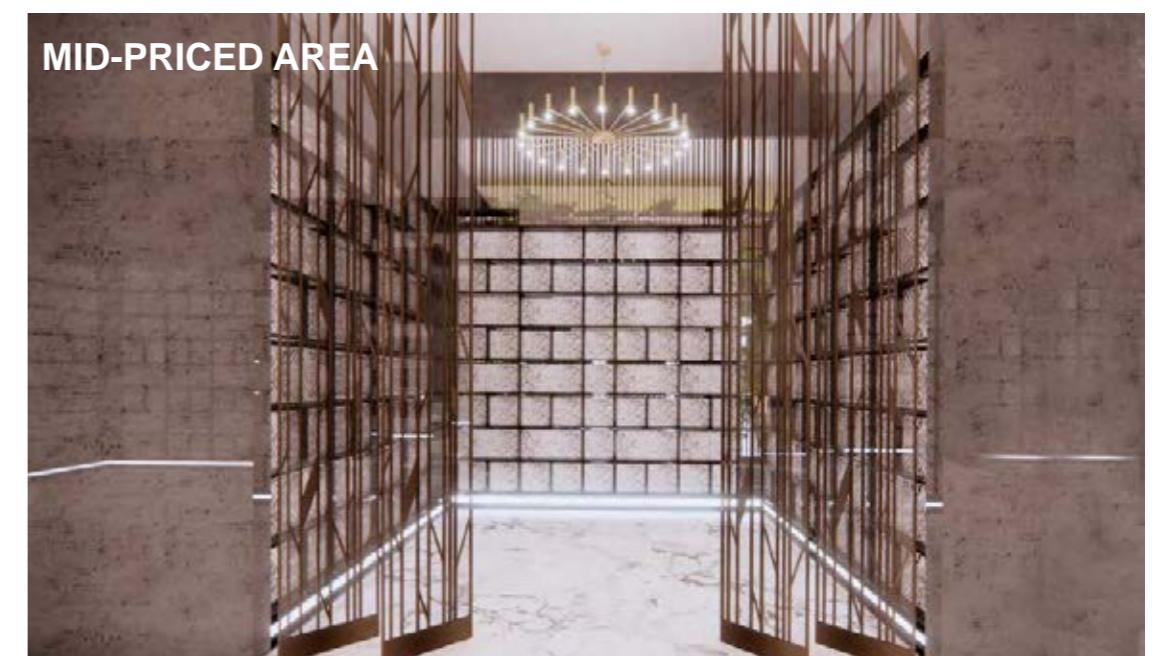
- Silver iron engraved panels
- Marble cabinets
- Glossy iron



High-Priced Columbarium



- Metal sculpted panels
- Metal cabinets
- Glossy iron



05 TOWNHOUSE UNFURLED

Renewal of Traditional Street Houses in Taiwan



[Introduction]

In response to the shifts of the post-pandemic period, this study reassesses the traditional residential patterns in Taiwan under the context of a high-density population. In such an environment, elongated houses commonly feature two courtyards to meet the need for natural lighting. However, this enclosed spatial design may adversely affect the psychological well-being of the inhabitants over time. With this understanding, our design proposal draws from the concept of the traditional Taiwanese street house courtyard, innovating it into an open space. Our aim is to create a living environment that is both private and connected to the outside world, thereby enhancing the quality of residence.

Type / Group Work

Instructor / Kwang-Tyng Wu

Period / Fall 2023

Site / Taoyuan, Taiwan

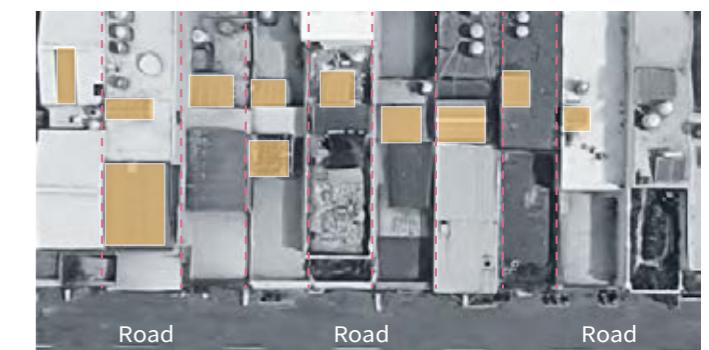


1. DIAPHRAGM WALL



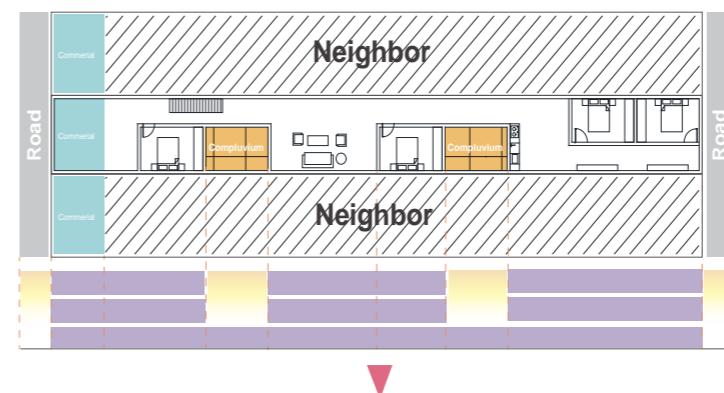
- Adjoining with the neighboring structure.

2. COMPLUVIUM



- Townhouse is narrow with a small skylight for lighting.

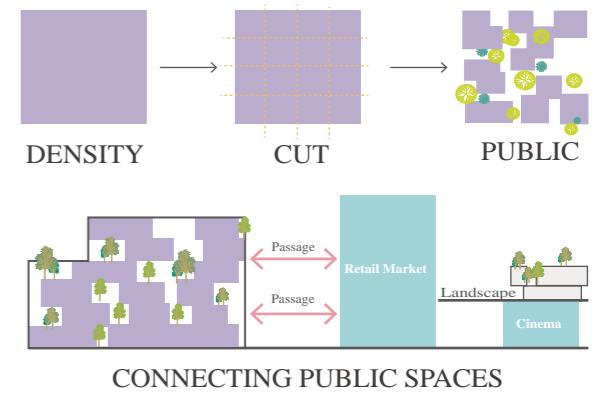
TRADITIONAL TOWNHOUSE PLAN



REDESIGNED TOWNHOUSE PLAN



CONCEPT



The residence, with its extended, slim architecture, endures a notable shortfall in internal lighting. Addressing this, our vision involves enhancing luminosity and collective spaces by thoughtfully expanding and creatively redefining the role of the compluvium, integrating it as a central, light-enhancing element within the living space.

GROUNF FLOOR PLAN

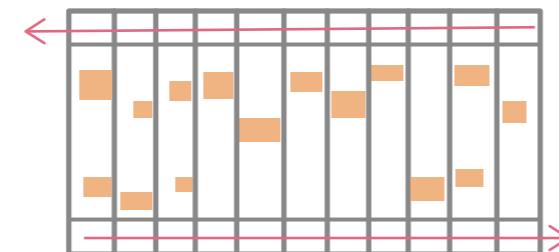
- COMMERCIAL ACTIVITIES -



PRIVACY v.s. PUBLIC

Refine and transform traditional street houses by dismantling select vertical barriers, thus cultivating a flow of space that fosters circulation. Preserving segments of these walls can give rise to intimate, bag-shaped alcoves, offering appropriately scaled communal areas in the post-pandemic landscape. Ultimately, we will conserve the quintessential patio of the street house, reimagining the once-private courtyard into a welcoming open space.

1. NARROW AND DIMLY LIT SPACES

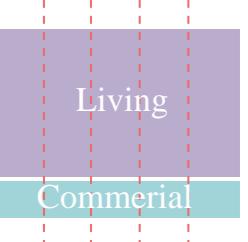
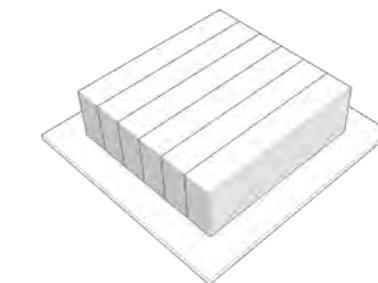


2. OPENING WALLS TO LIBERATE SPACE

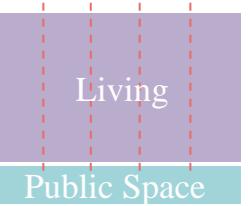
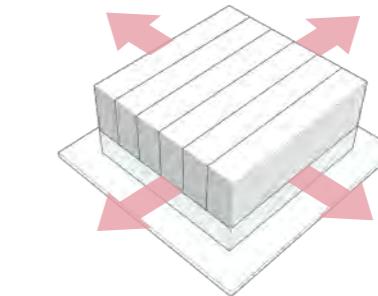


STRATEGY

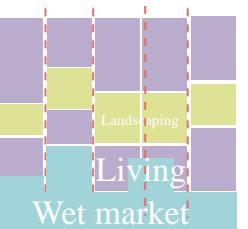
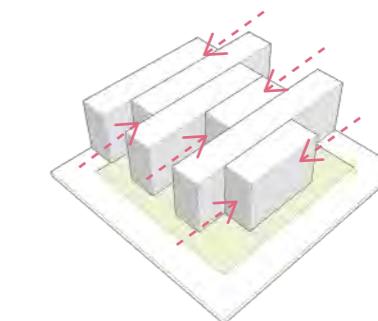
1. Public Space is Scarce.



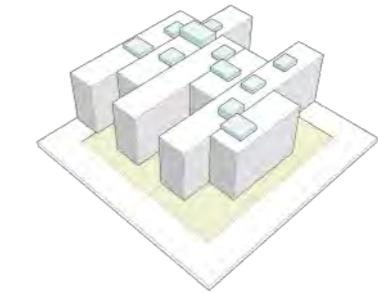
2. Transform Ground Floor into Wet Market.



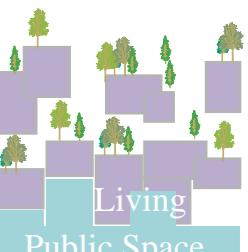
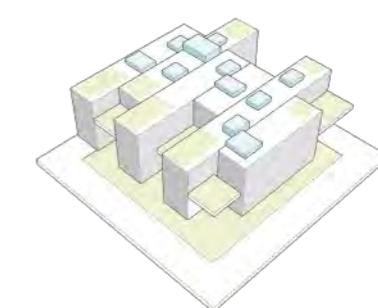
3. Expand Green Spaces



4. Enhance Natural Lighting



5. Enhance Greenery and Public Activity Spaces



GROUND FLOOR PLAN

- LIVING AREA -

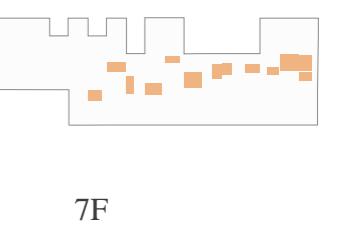
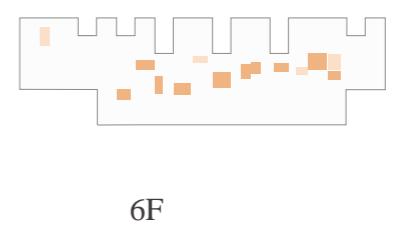
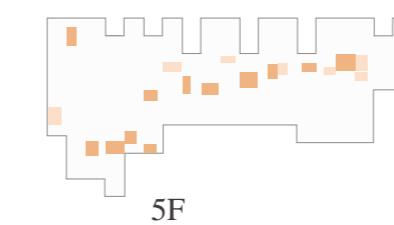
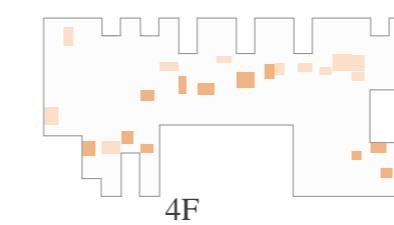
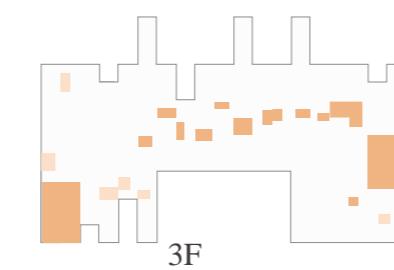
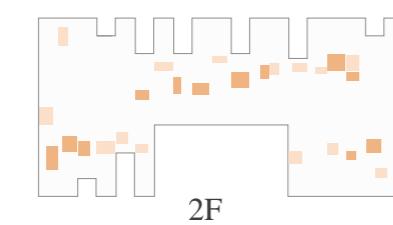
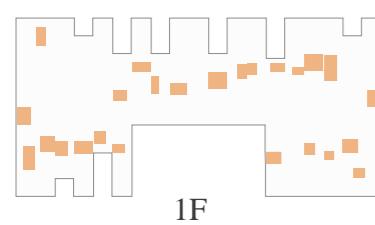
The residential life is centered around the compluvium, an integral feature of Taiwan's traditional street houses. By dismantling certain common walls, part of the compluvium has been transformed from a private enclosure to a communal hub, fostering small public spaces suitable for the post-pandemic era. Terrace gardens are interspersed throughout the layout, with some designed for shared use by two or three households. This arrangement promotes increased interaction among residents while mitigating the need to venture into more crowded spaces, thereby balancing community engagement with health safety.

1. SHARED KITCHEN
2. COMMON AREA
3. PLATFORM
4. ACTIVITY SPACE



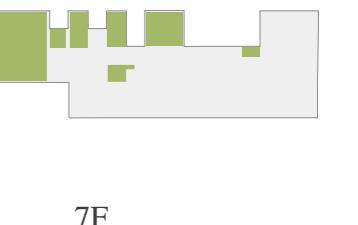
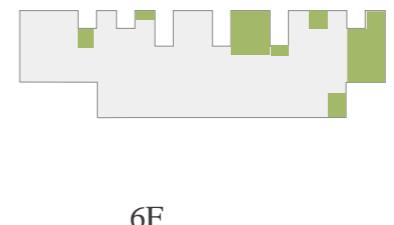
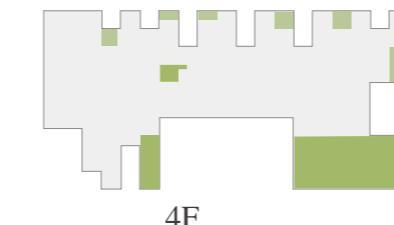
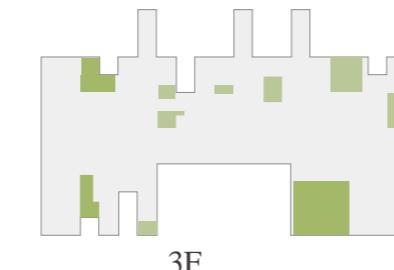
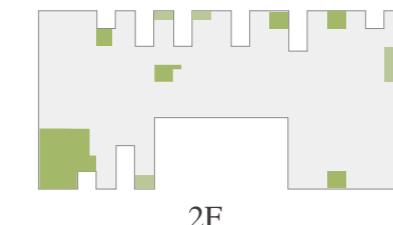
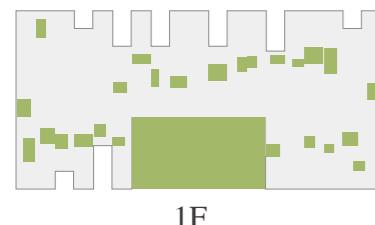
Compluvium

█ Public █ Private



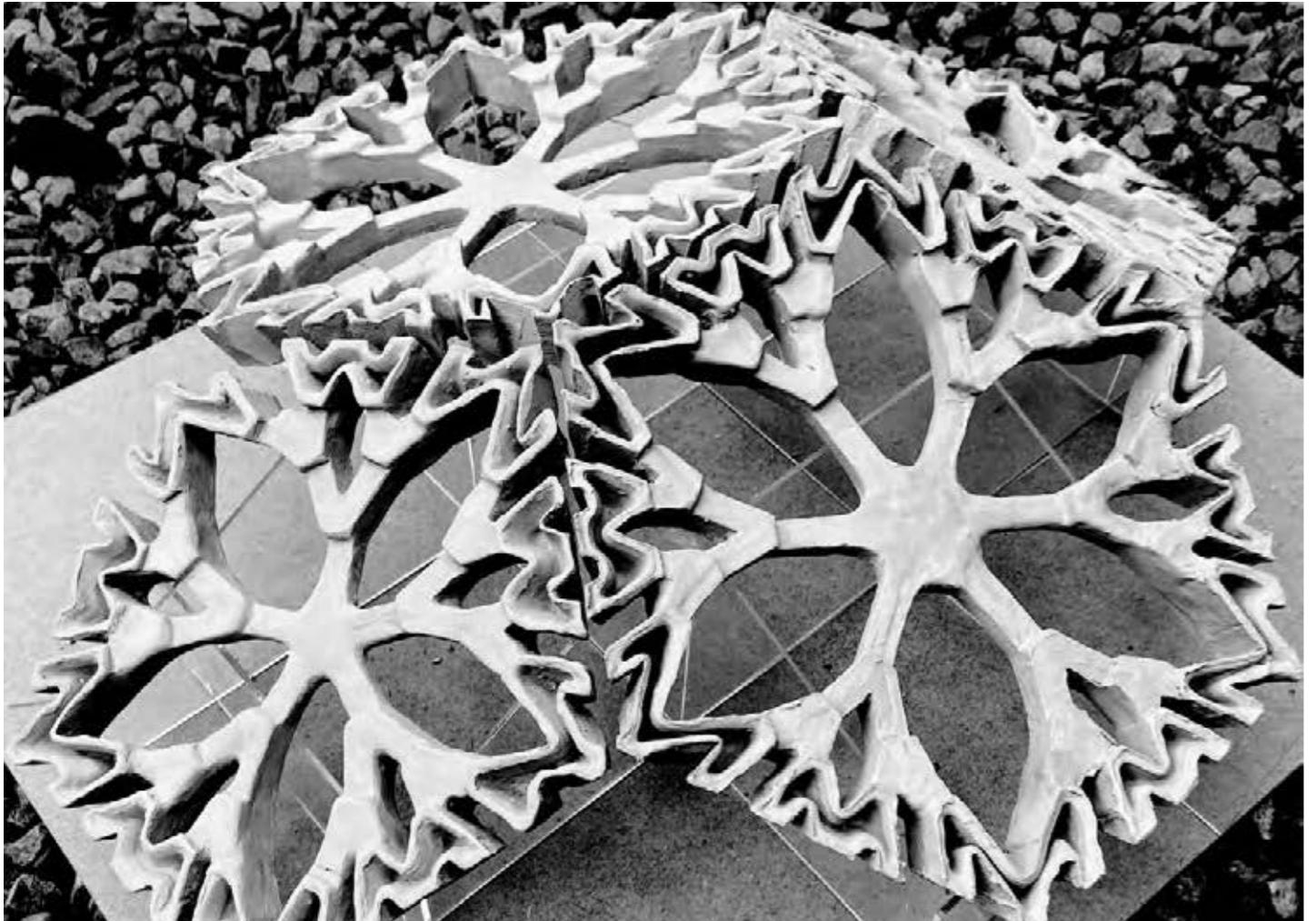
Green Space

█ Public █ Private



06 CORAL BIOMIMICRY STUDY

Analyzed Coral Structure Created with Digital Assistance



[Introduction]

The first phase involves analyzing the radial and branching growth patterns of coral skeletons, identifying their circulatory systems. By deriving the logic of branching from this analysis, diagrams can be created to construct a structure that aligns with this system.

In the second phase, precision molds are fabricated using 3D printing technology. These molds are then used to cast plaster, allowing for the modeling of "clay," a material that is typically challenging to shape. The outcome is a porous yet robust structure.

Type / Individual Research
Instructor / Hung-Ming ,Chen
Period / Winter 2021



INDIVIDUAL SEGMENTATION METHOD

Utilizing the segmentation rules of Scleractinia Coral's growth folds, deduce the logically consistent geometric patterns, and stop when branches overlap.

Rule 1

Fixed segment lengths and angles.

Type	15°	30°	45°	60°	75°	90°
+						
*						
*						
*						
*						
*						
*						

Rule 2

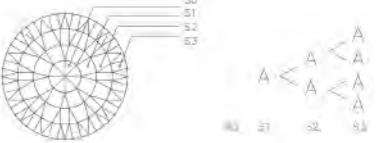
Decreasing segment length with a fixed angle.

Type	15°	30°	45°	60°	75°	90°
+						
*						
*						
*						
*						
*						
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Rule 3

Decreasing segment length and angle progressively.

Type	15°	30°	45°	60°	75°	90°
+						
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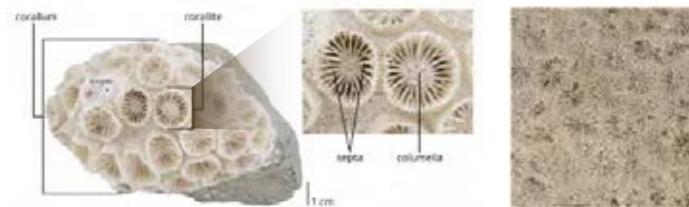


Rule 4

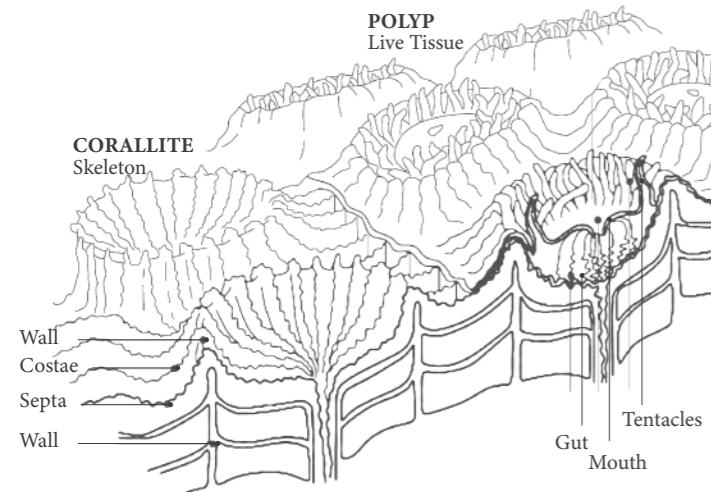
Fixed segment length, decreasing angle progressively.

Type	15°	30°	45°	60°	75°	90°
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INDIVIDUAL SEGMENTATION METHOD



LETEPSAMMIA FORMOSISSIMA



COMBINATION

Type 1

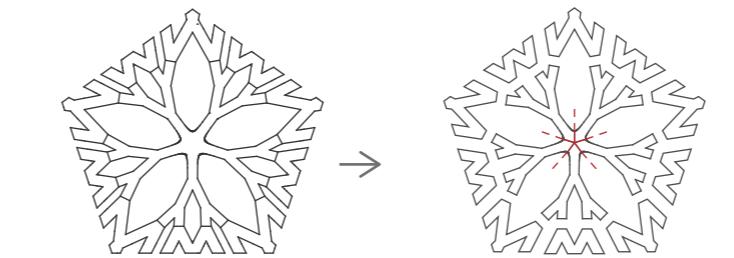
Type	Rule 1	Rule 2	Rule 3	Rule 4
+				
15°				
30°				
45°				
60°				
75°				

Type 2

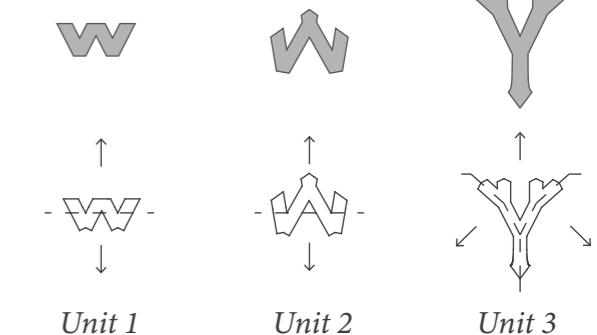
Type	Rule 1	Rule 2	Rule 3
+			
15°			
30°			
45°			
60°			
75°			

SEGMENTING UNITS

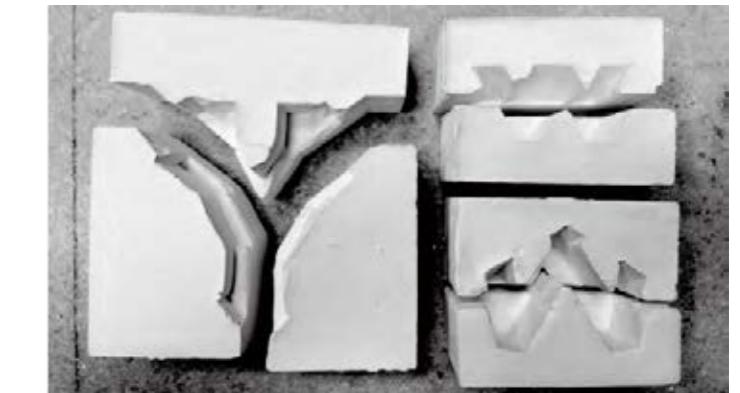
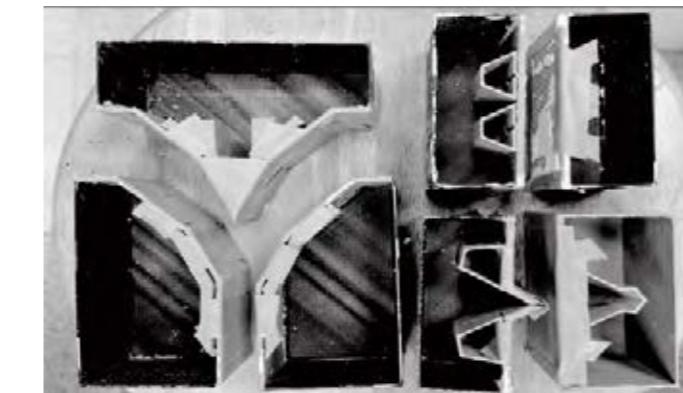
- Design units guided by the rules of coral branching are broken down into smaller elements.



- Utilizing 3D printed molds to control the shape of these units, they are then cast with slip clay



3D print → Plaster molds → Pottery clay



PRODUCTION STEPS

- Step1. Using 3D printed molds to precise control of the unit's shape.
- Step2. Plaster molds were created, it's essential to consider direction.
- Step3. Ceramic slurry was cast to form the desired shape.

