

# Architecture Portfolio

2012-2021

Youjin Rhee

M.Arch 3rd year  
Pratt Institute

# YOUJIN RHEE

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## LANGUAGES

English Intermediate  
Korean Native

## LINKEDIN

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## ACADEMIC

2020-2022 **Master of Architecture**, 2-year advanced standing - expected May 2022  
Pratt Institute, Brooklyn, New York

2012-2017 **Bachelor of Architecture**, 5-year  
Yeungnam University, Daegu, South Korea

### · AWARDS ·

2020-2022 **Graduate Annual Scholarship**  
Pratt Institute, Brooklyn, New York

2016 **Academic Excellence Scholarship**  
Yeungnam University, Daegu, South Korea

2016 **Yeungnam University Graduation Exhibition, Second Prize**  
Yeungnam University, Daegu, South Korea

2016 **Urban Design Competition, Third Prize**  
Design Daegu Forum 'Design Improvement Project  
for the road of the East Daegu', Daegu, South Korea

2016 **The Remodeling Competition, Honorable Mention**  
Korean Institute of Architects (UIA, International Union of Architects)

## EXPERIENCE

### · PROFESSIONAL ·

2016-2019 **Architecture Junior Designer (Full Time)**  
USUN, Seoul, South Korea

- Residential Tower In Pyeong Taek Goh Deok, South Korea  
Designing in both AutoCAD and Sketch Up across residential, mixed-use projects. Have successfully taken on many roles, gaining experience in designing early stage of the construction.

- Korea National Museum In Iksan, South Korea  
Worked all phase 100% CD, primarily in building section, construction part by using BIM and worked visualization by using Rhino rendering and Twin Motion.

- Residential Tower In Asan, South Korea  
Worked from DD to 100% CD, such as architectural, especially section plan and coordinated with underground parking lot and MEP consultants, community center layout.

- Business Office Center In Namyangju, South Korea  
Assisted in PD. Worked primarily in making photoshop diagramming. Had the opportunity to accomplish an architectural competition.

- Education Buildings, Korea Polytechnics University Campus In Milyang, South Korea  
Worked part of phase SD and CD, coordinated with construction consultants. Drafted various design drawings by using BIM and made physical models.

2015 **Architecture Summer Internship**  
SAMOO Architects and Engineers, Seoul, South Korea

- Samsung Head Office In Beijing, China  
Assisted in terms of podium design of the building by using Sketch Up and hand drawing.

## TOOLS

Auto Cad	Sketch Up	Rhino_Vray
Revit	Ladybug, Kangaroo_Grasshopper	
Photoshop	Illustrator	Indesign
Twin Motion	Unity	



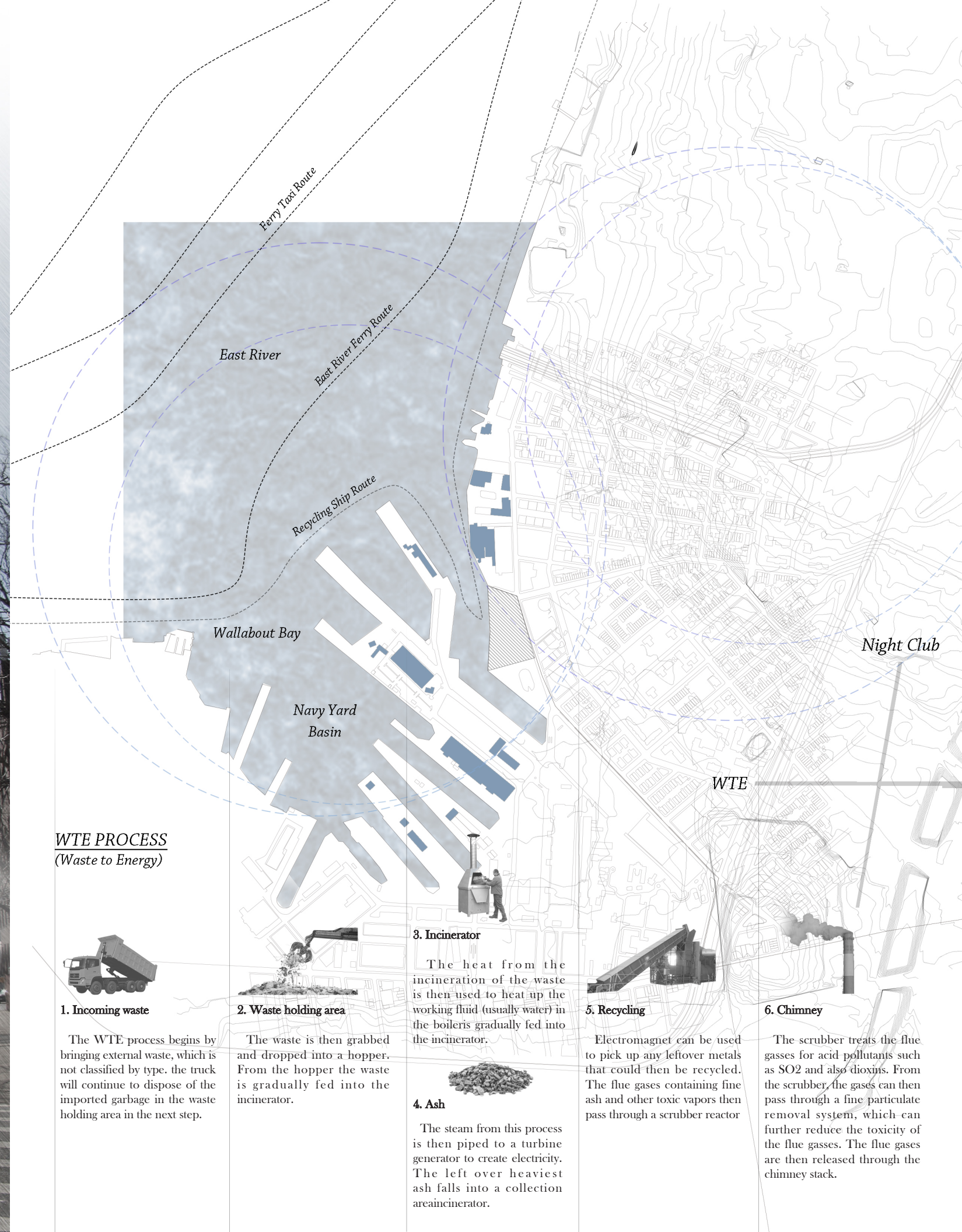
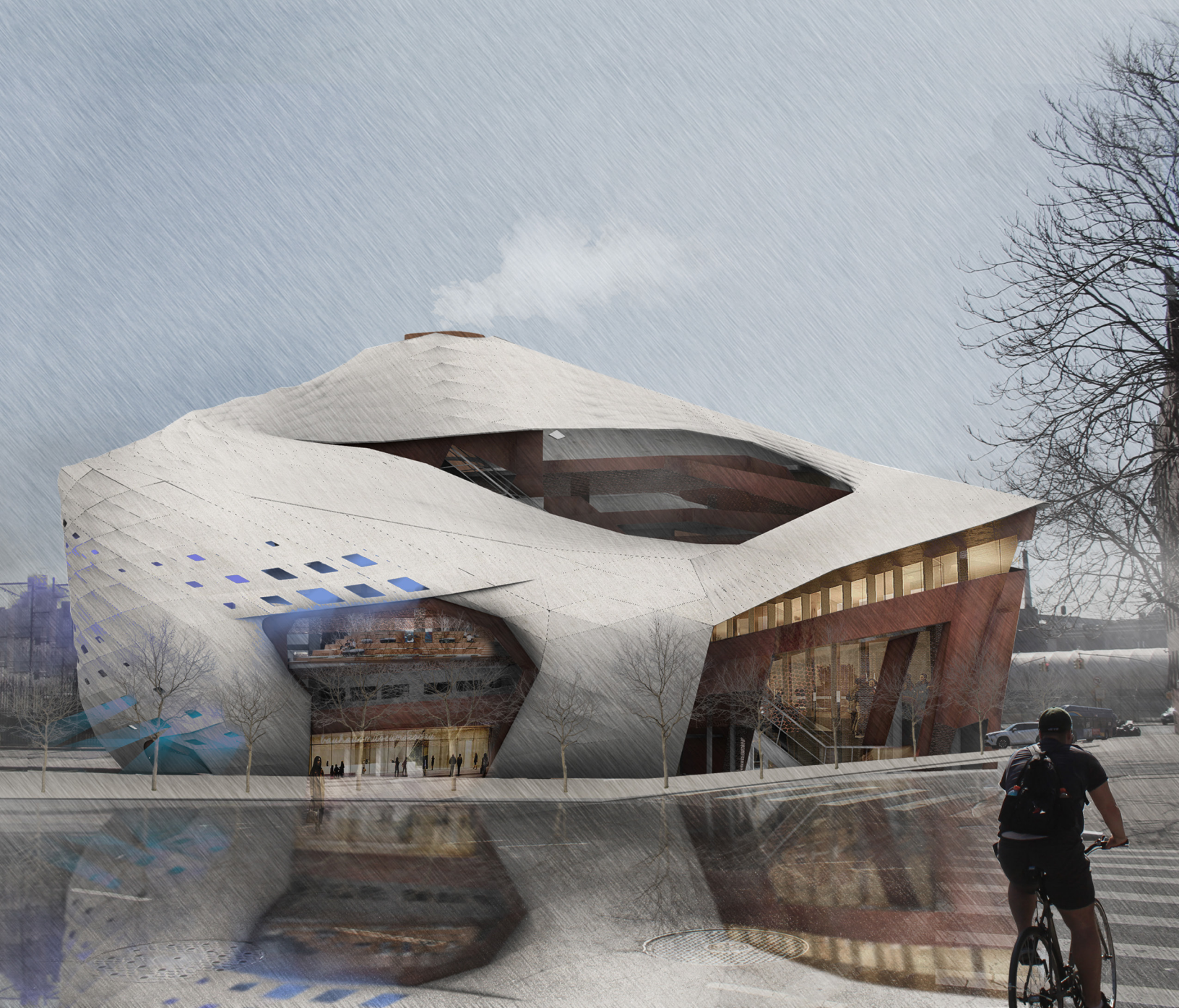
# South Williamsburg Community Complex

Academic 2021SP\_2nd Year  
 M.Arch, Pratt  
 Prof. Alexandra Barker  
 Program : WTE(Waste to Energy)  
 + Night club  
 Site : Willamsburg, Brooklyn  
 Group work (with Jack)

This building has multiple programs serving the community. These programs are a Waste-to-Energy facility, a recycling facility, community center functions, educational space and a nightclub. The programs are closely intertwined and visually connected to each other.

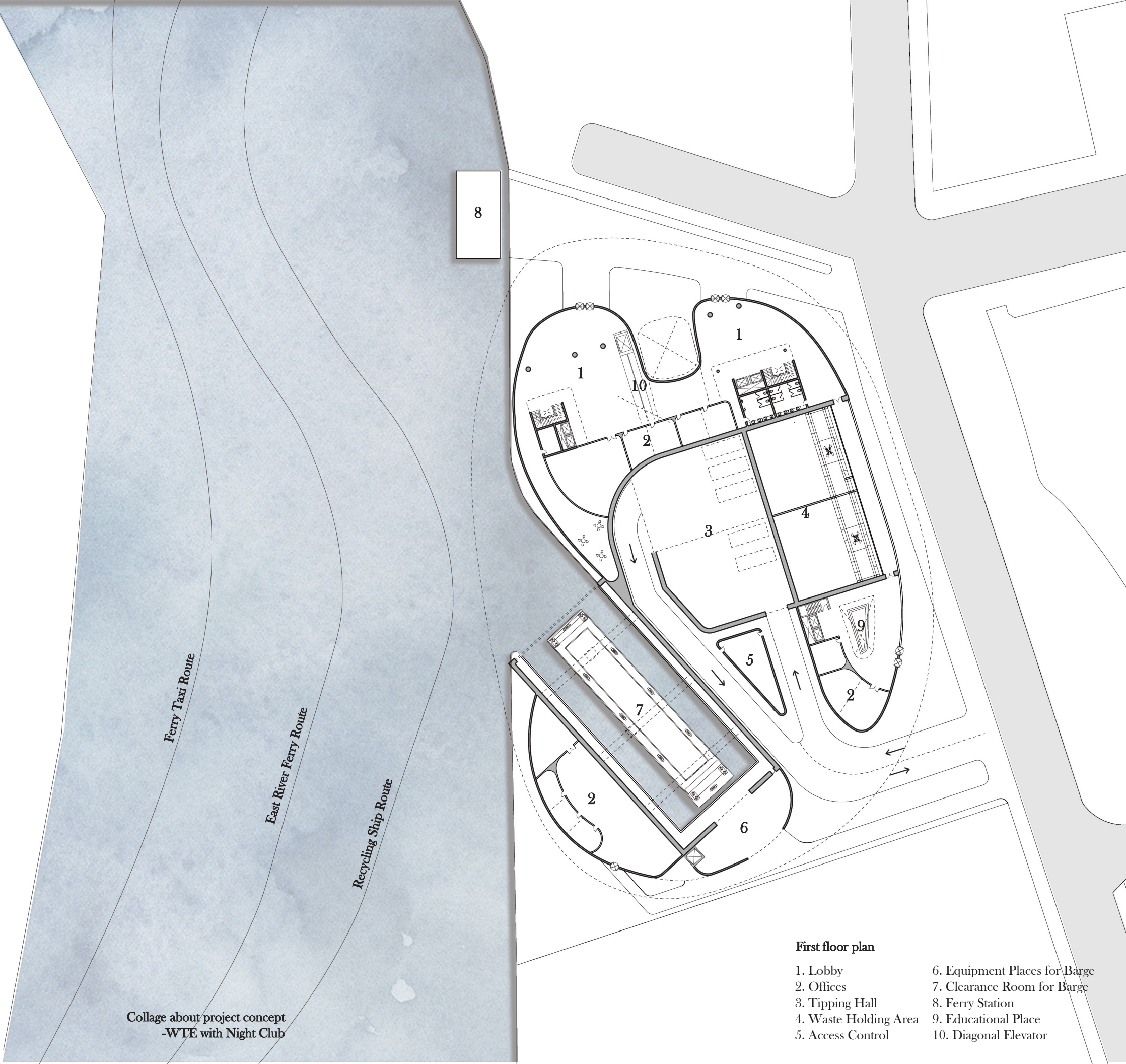
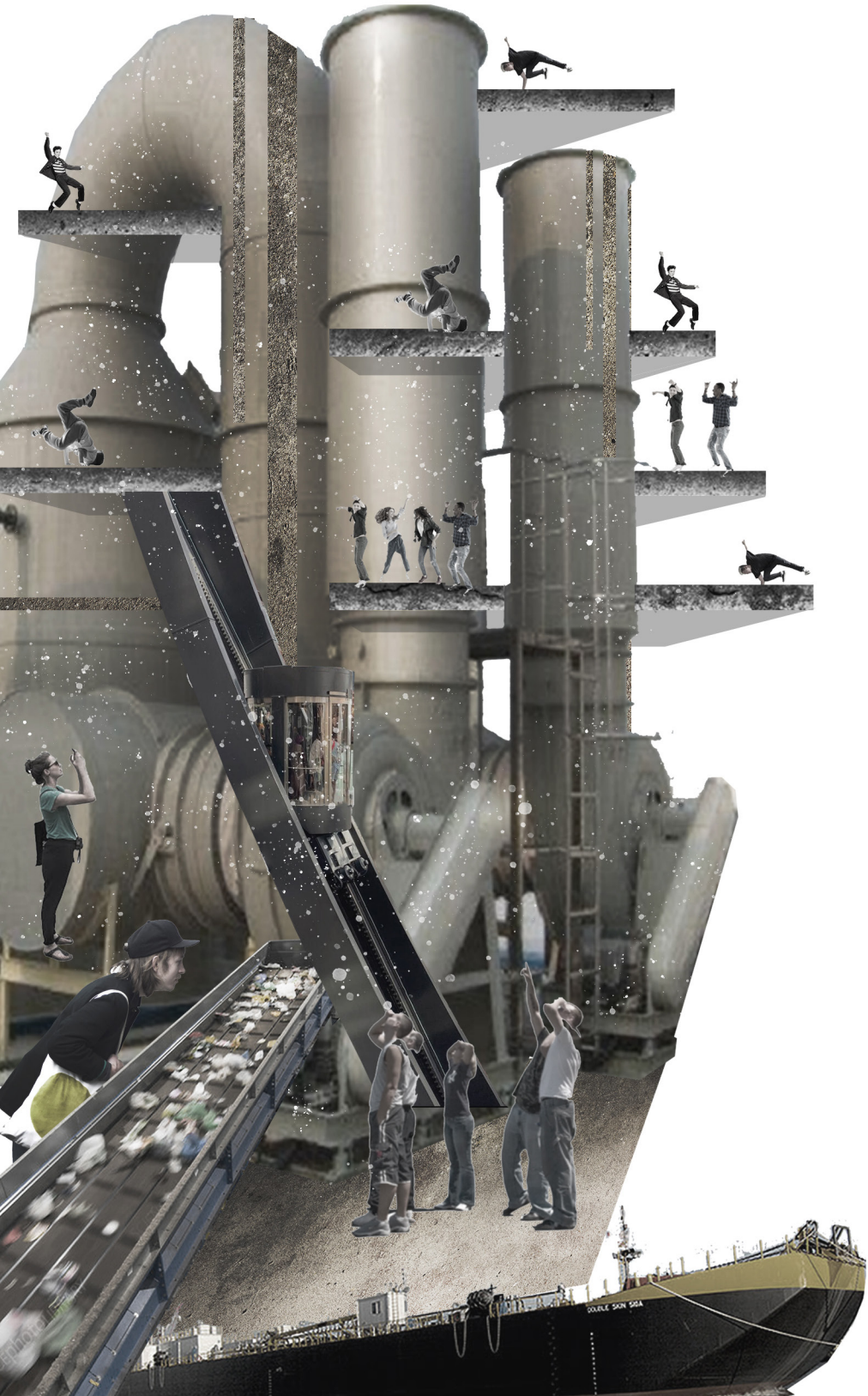
The courtyard space introduces natural light to the building, and a diagonal elevator moves alongside the courtyard. The diagonal elevator provides a unique way of transportation and resembles a conveyor belt in the waste management process.

Role : render images, producing floors, sectional plans, diagrams  
 (Rhino, Photoshop,Illustrator)



Waste to energy is for humans, but it is still unfamiliar to people. It is a space for people and the environment, but what people avoid is the most important part of this project. I wanted to present a part where people were most excited and many generations could observe the process of the program at a glance as they formed a space together.

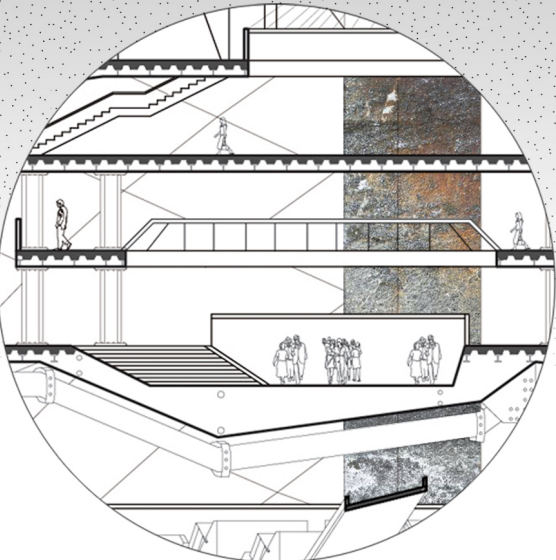
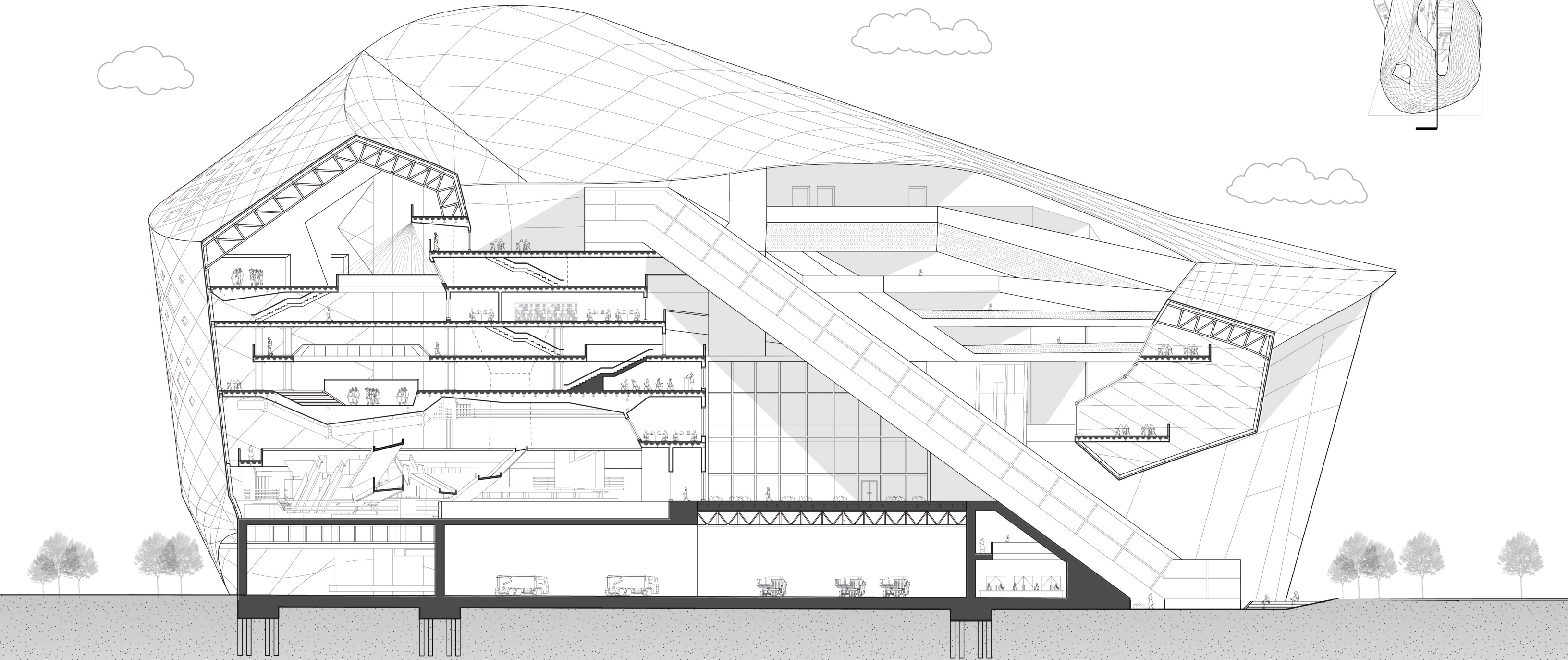
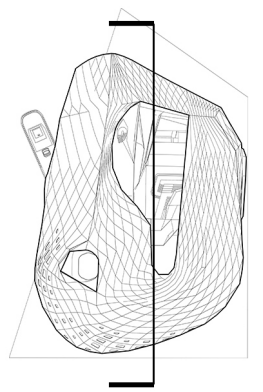
The collage below shows the concept of this project. Through the diagonal elevator, people can enjoy the joy of sight at the same time as moving the space. And I wanted to present a **space for industrial machinery to enjoy together**, not to be avoided anymore.



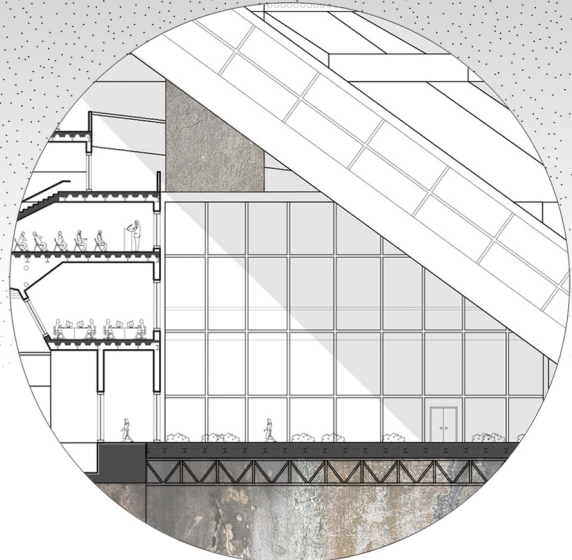
Collage about project concept  
-WTE with Night Club

**First floor plan**

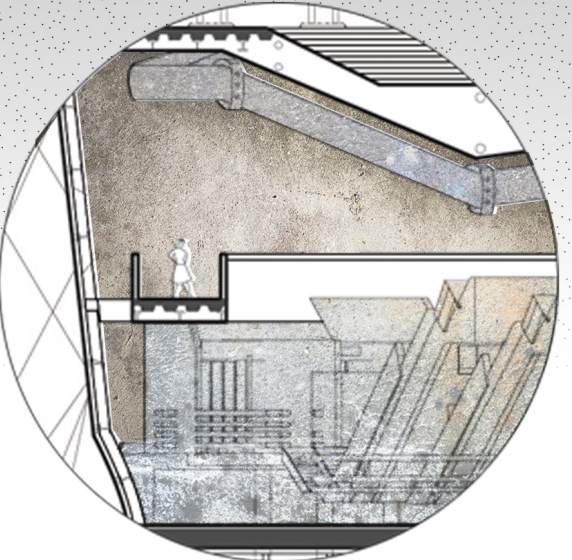
- |                       |                               |
|-----------------------|-------------------------------|
| 1. Lobby              | 6. Equipment Places for Barge |
| 2. Offices            | 7. Clearance Room for Barge   |
| 3. Tipping Hall       | 8. Ferry Station              |
| 4. Waste Holding Area | 9. Educational Place          |
| 5. Access Control     | 10. Diagonal Elevator         |



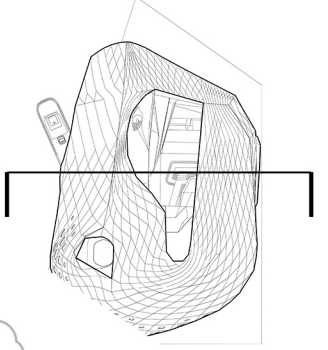
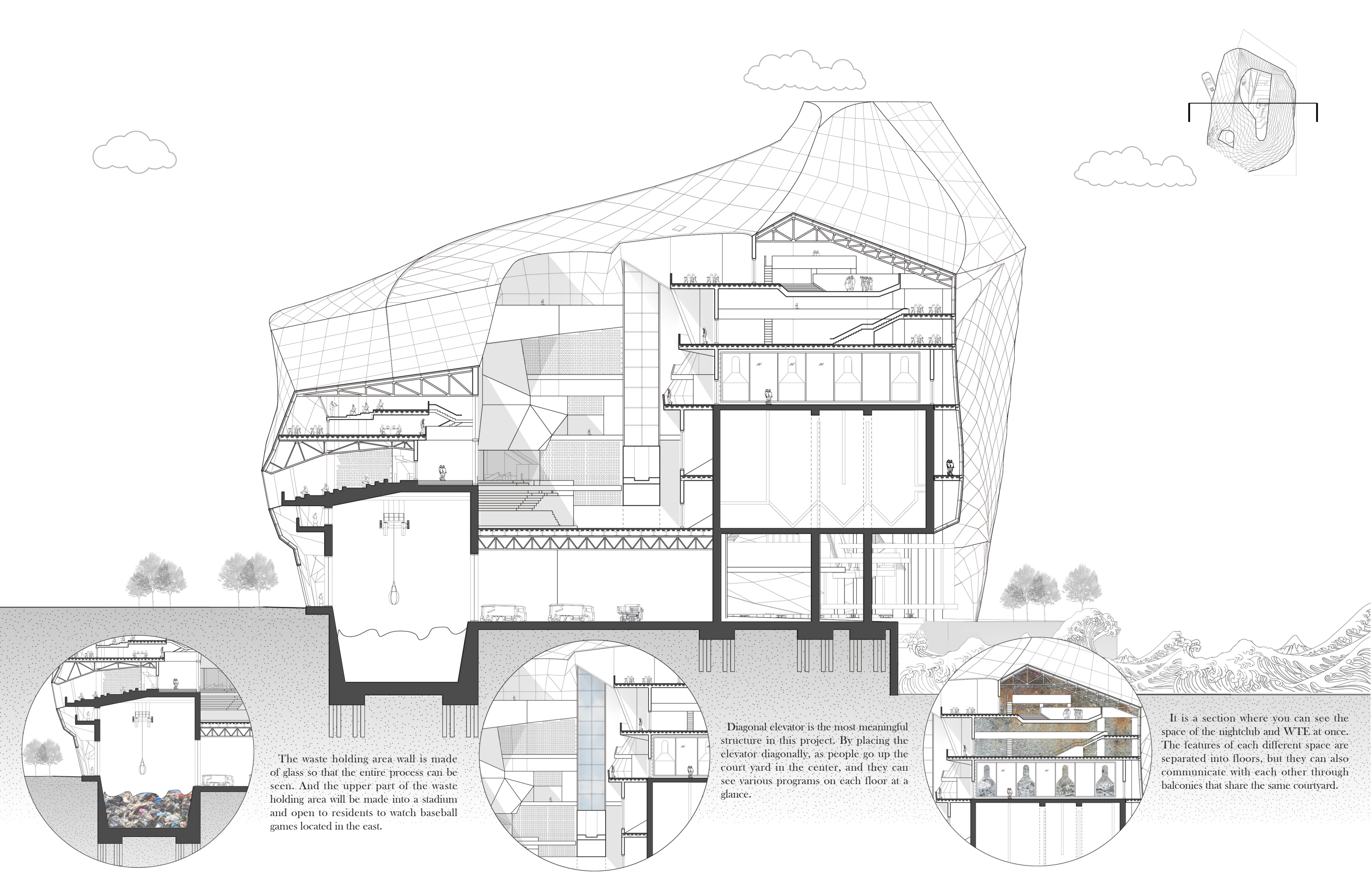
The vertical language of the WTE and recycling machines was penetrated through different layers so that different programs could be experienced at any time.



The courtyard space introduces natural light to the building, and a diagonal elevator moves alongside the courtyard. The diagonal elevator provides a unique way of transportation and resembles a conveyor belt in the waste management process.



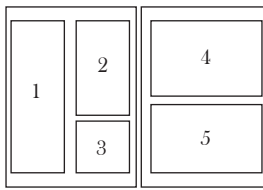
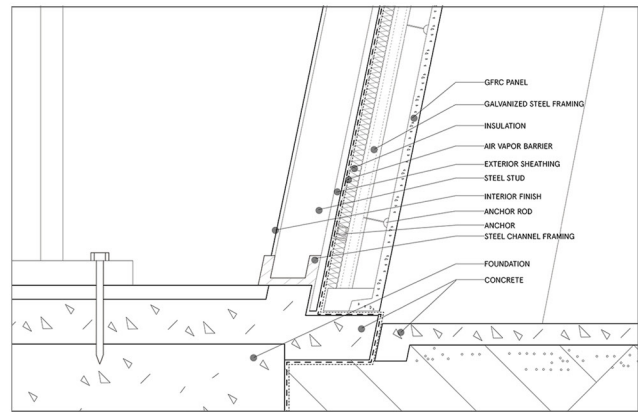
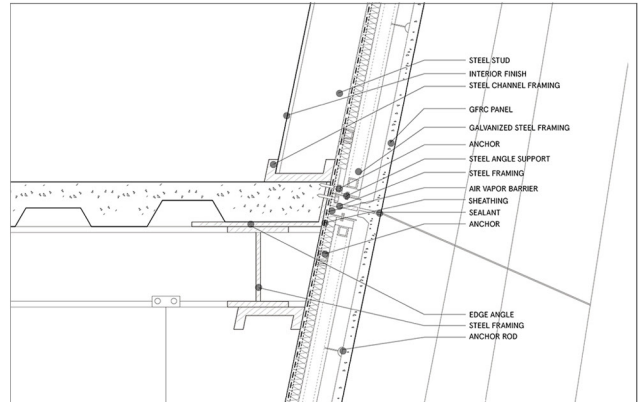
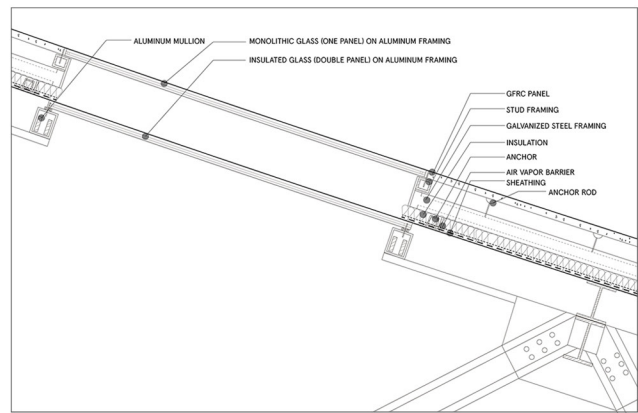
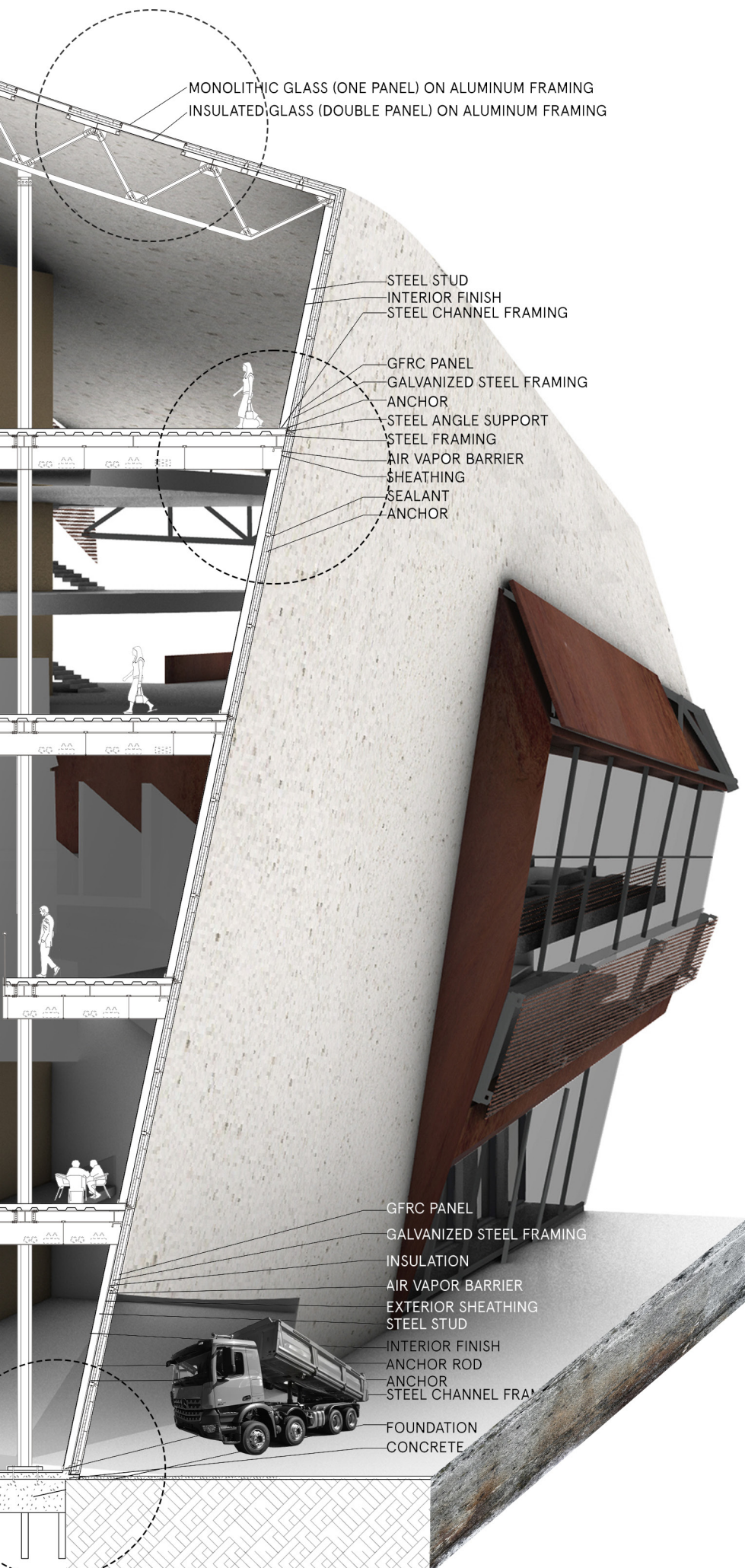
The machine was exposed as much as possible and a circulation line was created around the machine to construct an educationally helpful program. As people move to each program, they will naturally know the process of WTE.



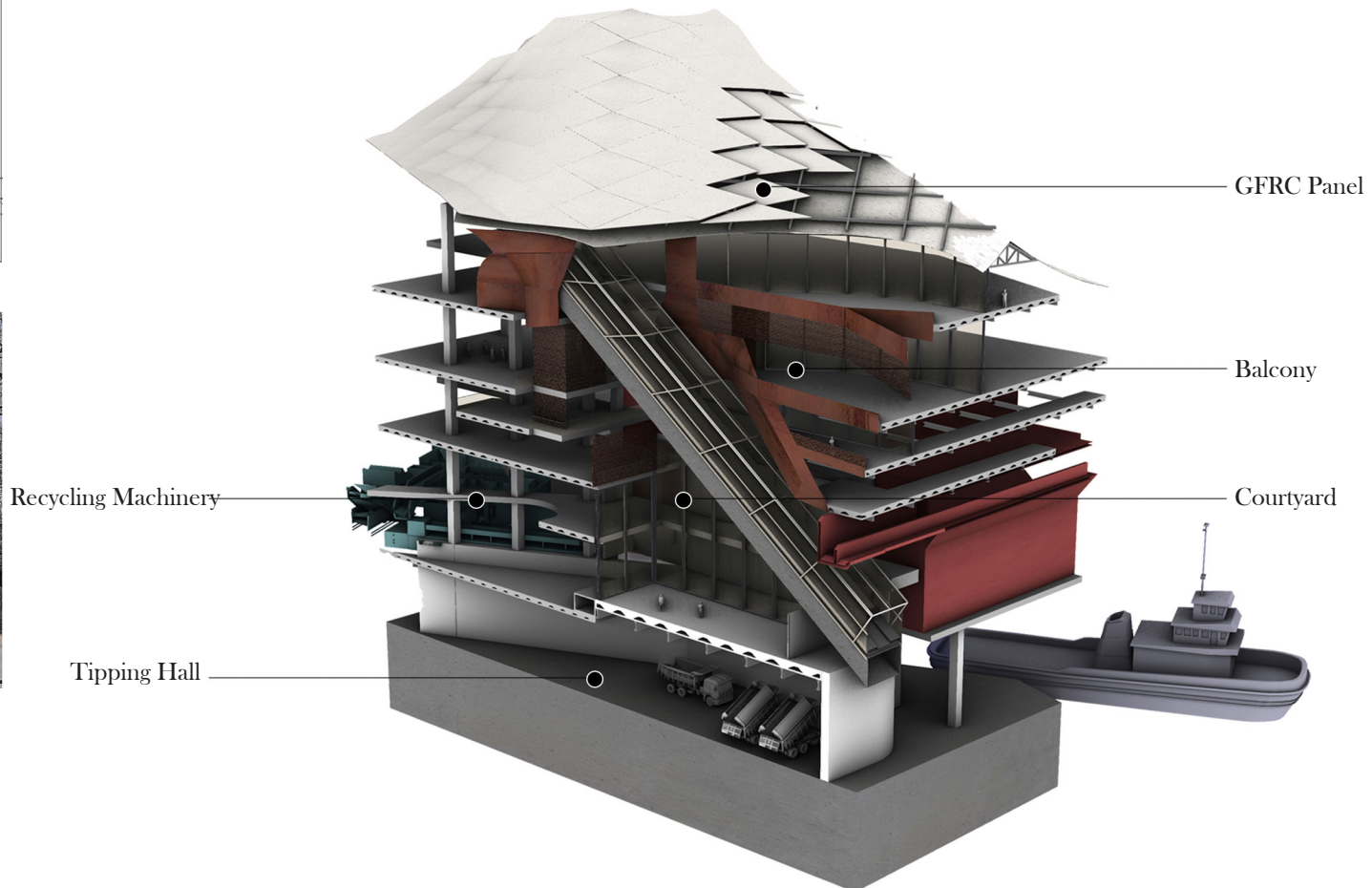
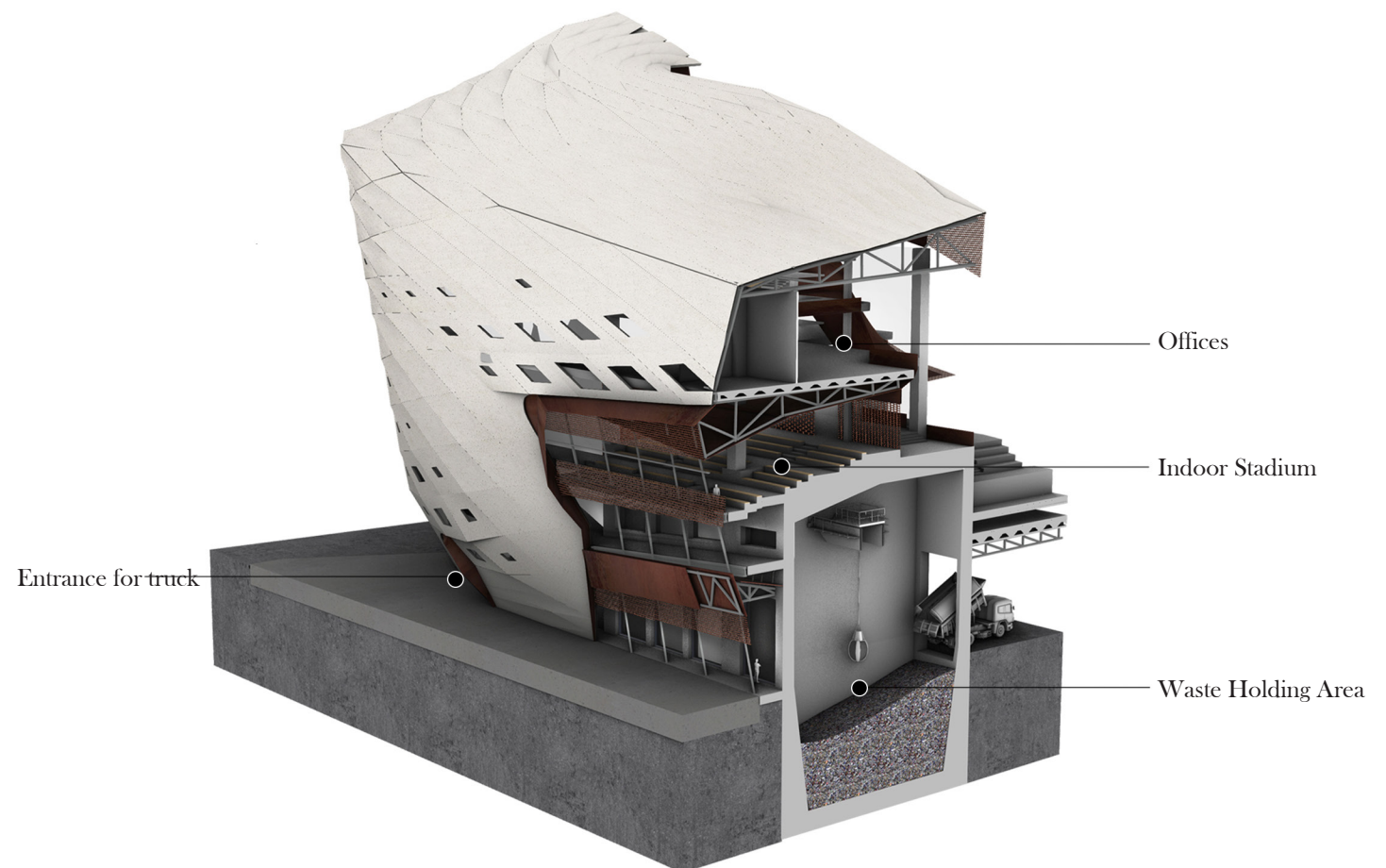
The waste holding area wall is made of glass so that the entire process can be seen. And the upper part of the waste holding area will be made into a stadium and open to residents to watch baseball games located in the east.

Diagonal elevator is the most meaningful structure in this project. By placing the elevator diagonally, as people go up the courtyard in the center, and they can see various programs on each floor at a glance.

It is a section where you can see the space of the nightclub and WTE at once. The features of each different space are separated into floors, but they can also communicate with each other through balconies that share the same courtyard.



1. Wall section (West-East)
2. Detail section of GFRP, weathering steel
3. View from south direction
4. Chunk A
5. Chunk B



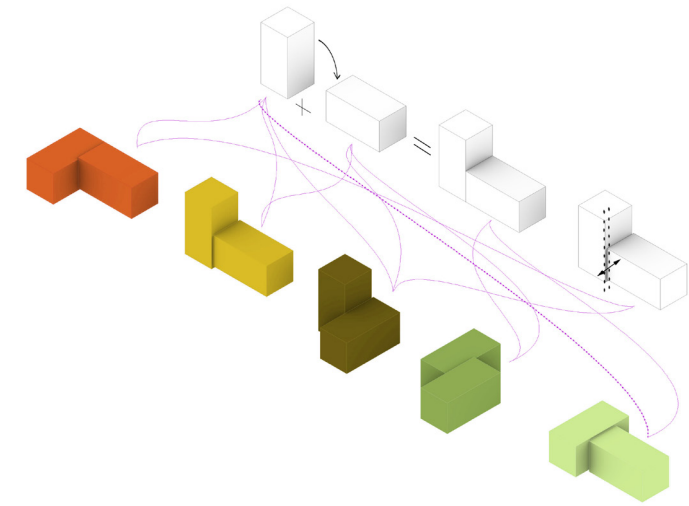
# Reconnect Farragut

Academic 2020FA\_2nd Year  
M.Arch, Pratt  
Prof. Stephanie Bayard  
Program : Residential  
Site : Farragut Houses, Brooklyn  
Group work (with Theo Guo)

Project looks at Farragut Houses' Current issue at two different point of view. One is to reimagine the living conditions and unit types that defines the lifestyle of the low income housing in the area; Another is, by removing the solid boundaries that was created by the green spaces, to redesign the landscape and public spaces that gathers people in the community.

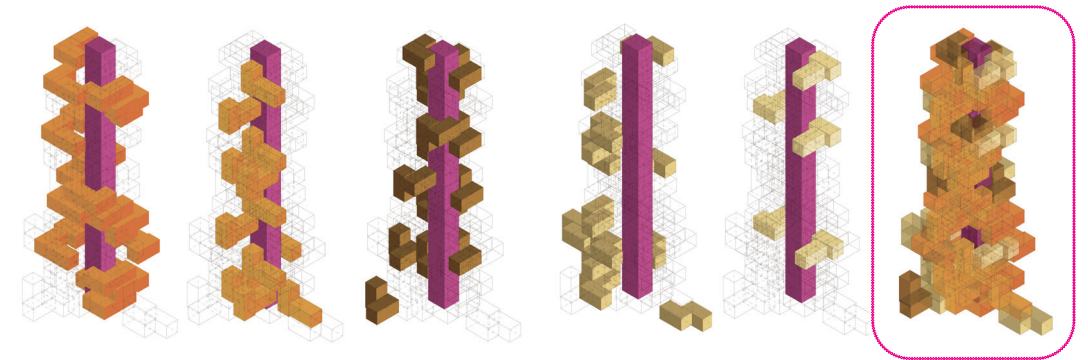
The two system was then translated into two distinct structures that were combined together at the selected site, one as the stacking of units and another as an organic shape contains public space and circulations.

Role : render images, producing floors, sectional plans, diagrams  
(Rhino, Photoshop, Illustrator)



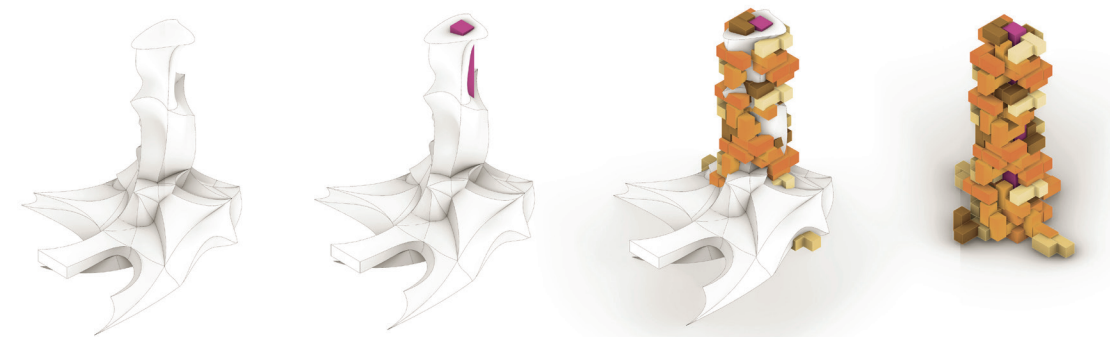
## Units Typology

After rotating and moving the mass and trying various combinations, made five types of units.



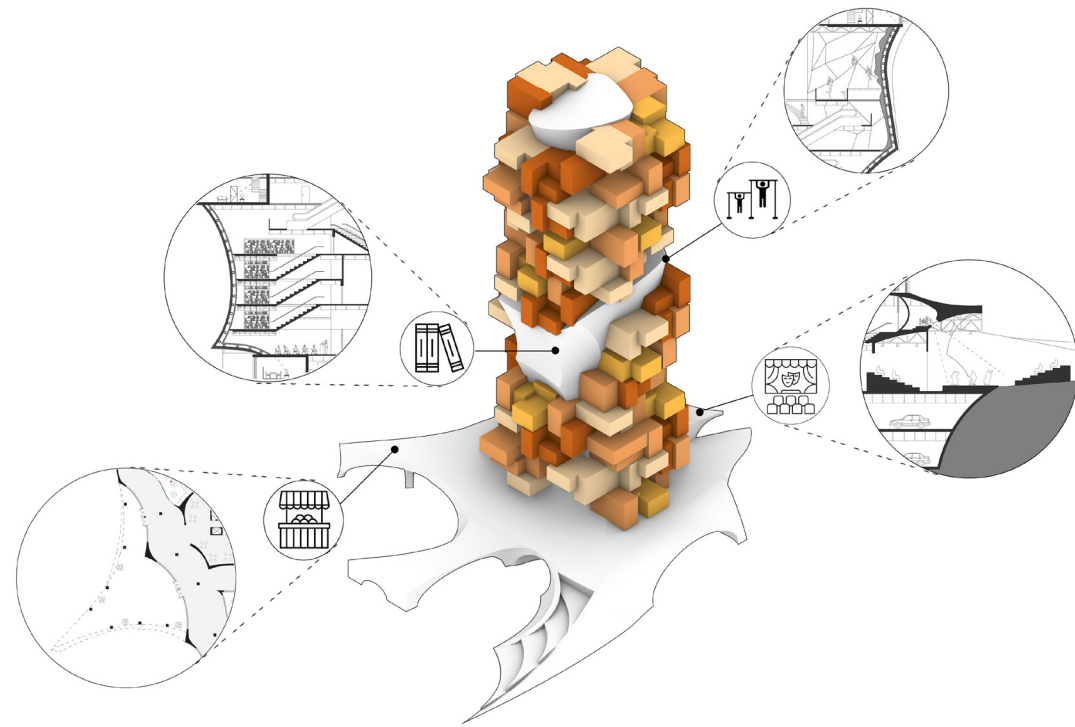
## Units Aggregation

The combination of the five units in various directions based on the core resulted in the rightmost mass shape.



## Unit Aggregation with Curvy Mass

The two system was then translated into two distinct structures that were combined together at the selected site, one as the stacking of units and another as an organic shape contains public space and circulations.

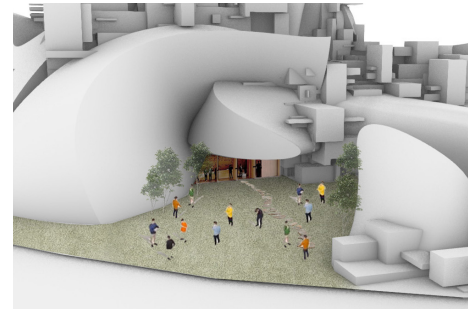


**Program Diagram**

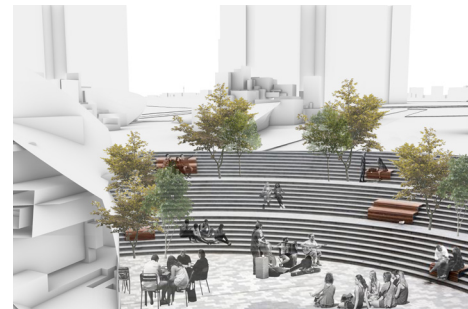
Flea market, Library, Gym/Climbing, Theater (Clockwise from Left Side)



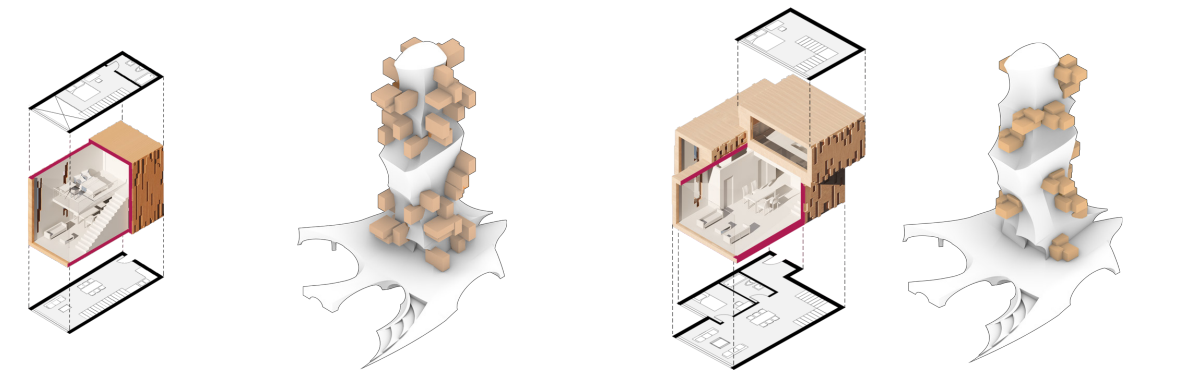
**Central Plaza**



**Flea Market**

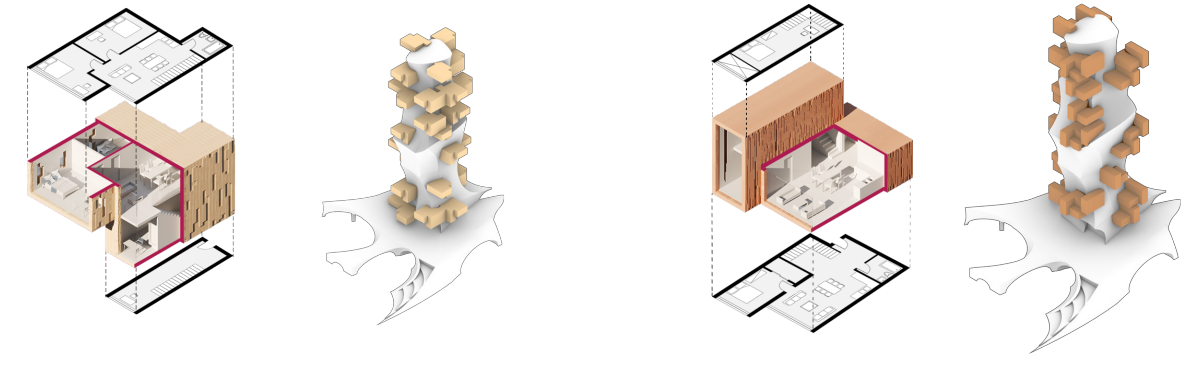


**Sunken**



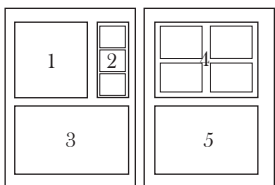
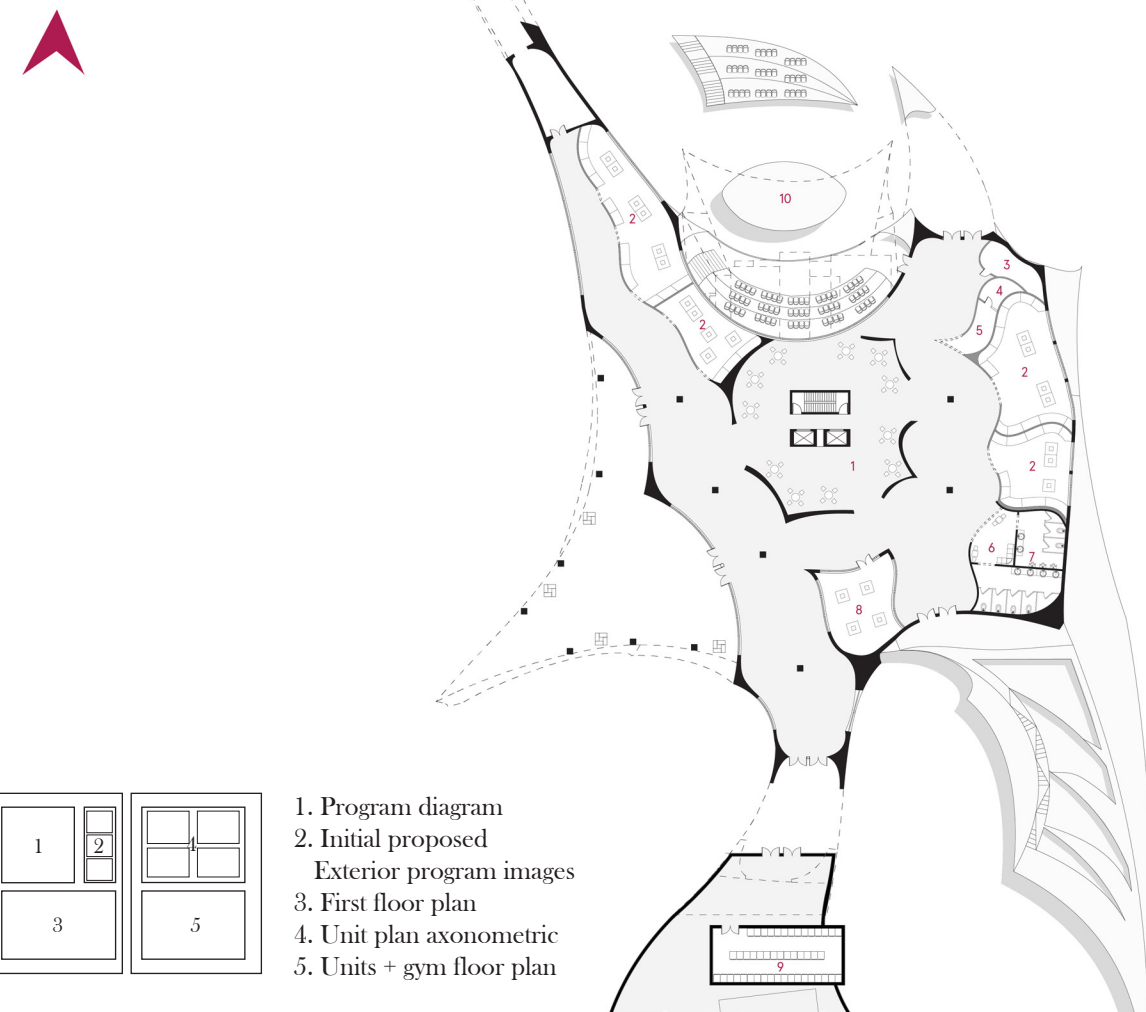
**Studio Unit**

**One Bedroom Unit**



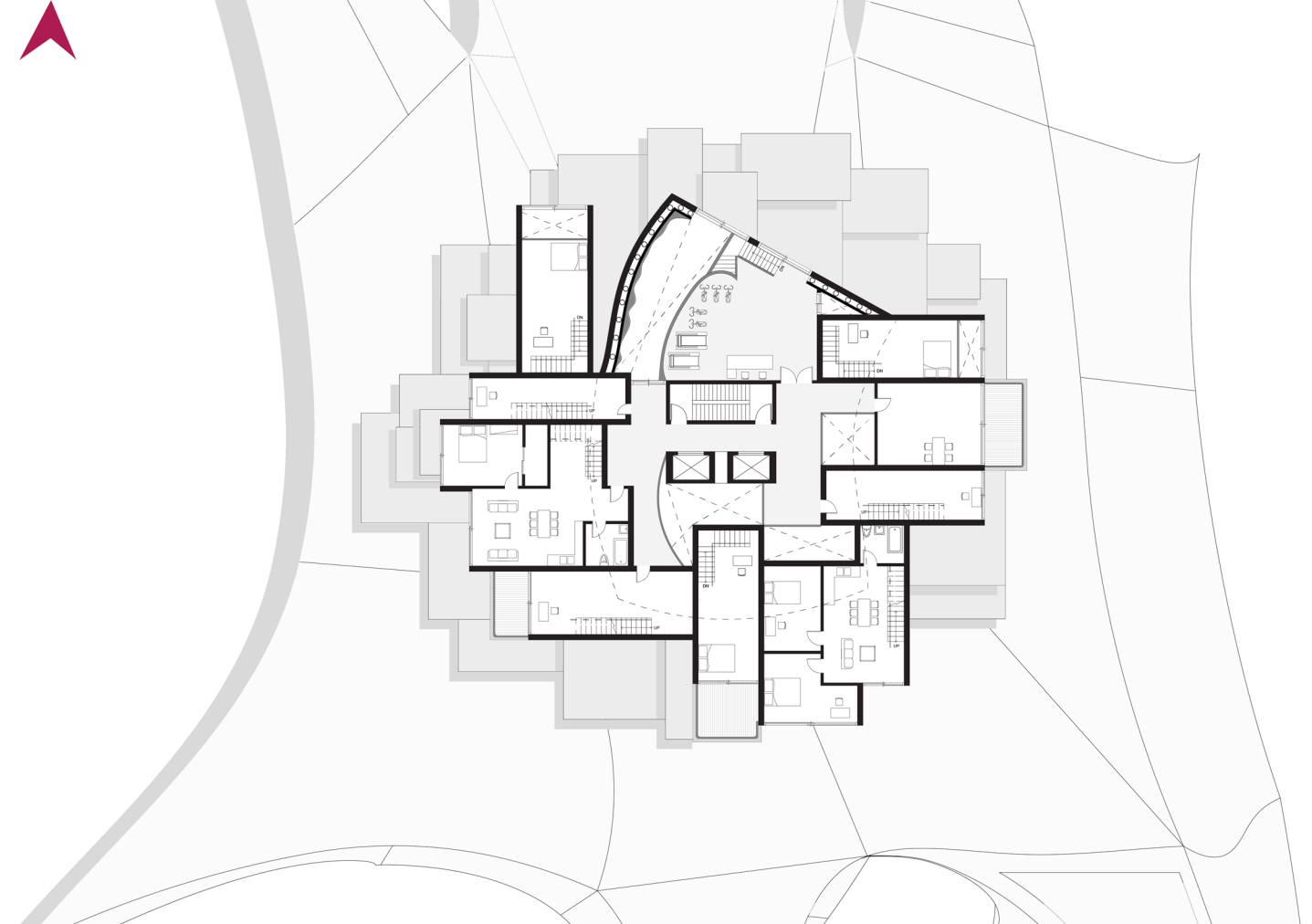
**Two Bedroom Unit-A type**

**Two Bedroom Unit-B type**



- 1. Program diagram
- 2. Initial proposed Exterior program images
- 3. First floor plan
- 4. Unit plan axonometric
- 5. Units + gym floor plan

- 1. Lobby
- 2. Shop
- 3. Nursing Room
- 4. Information
- 5. Security Room
- 6. Rest Zone
- 7. Toilet
- 8. Workshop
- 9. Laundry Room
- 10. Theater

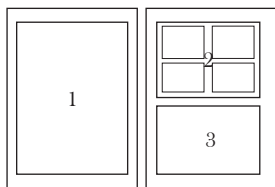
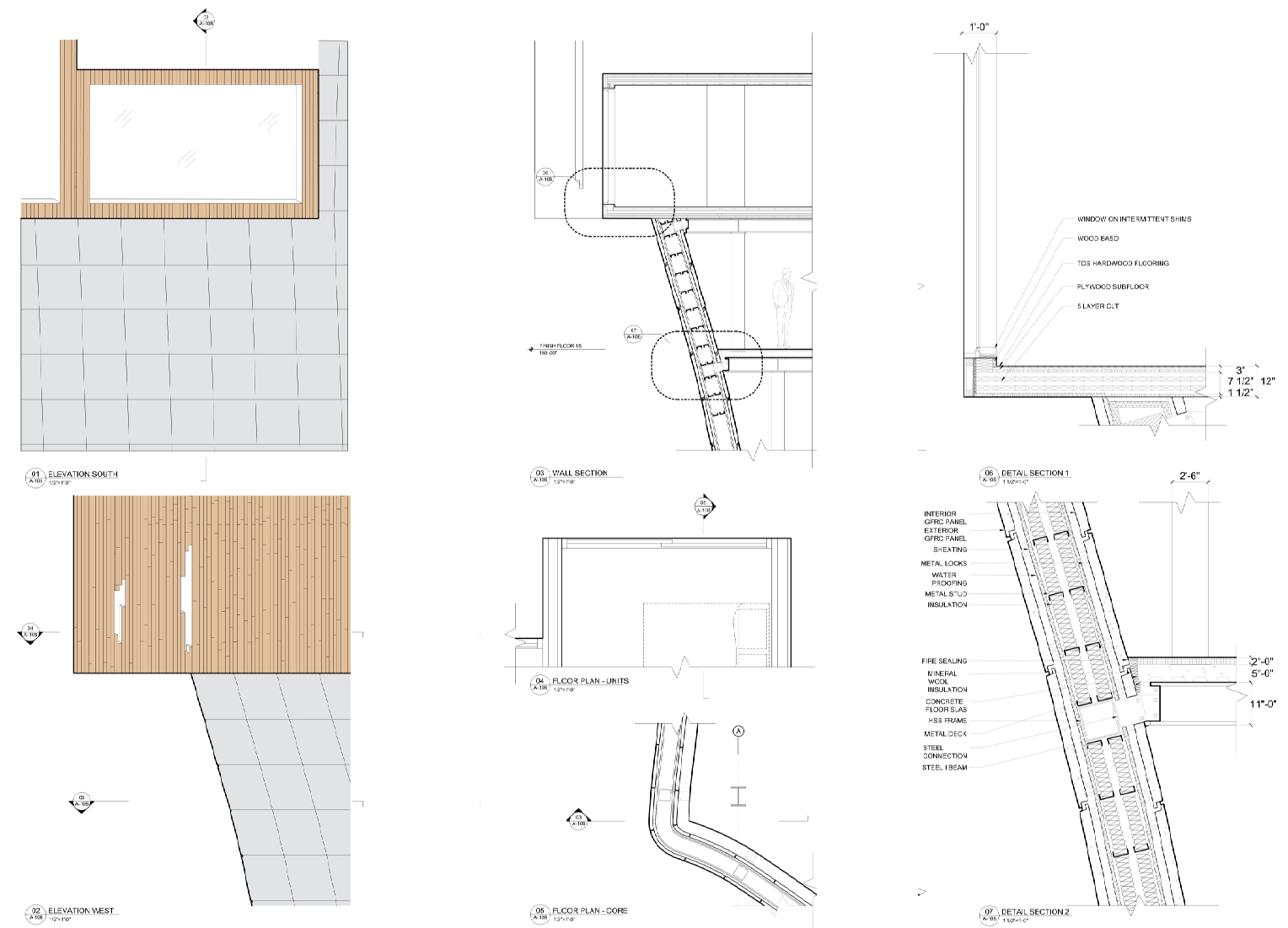
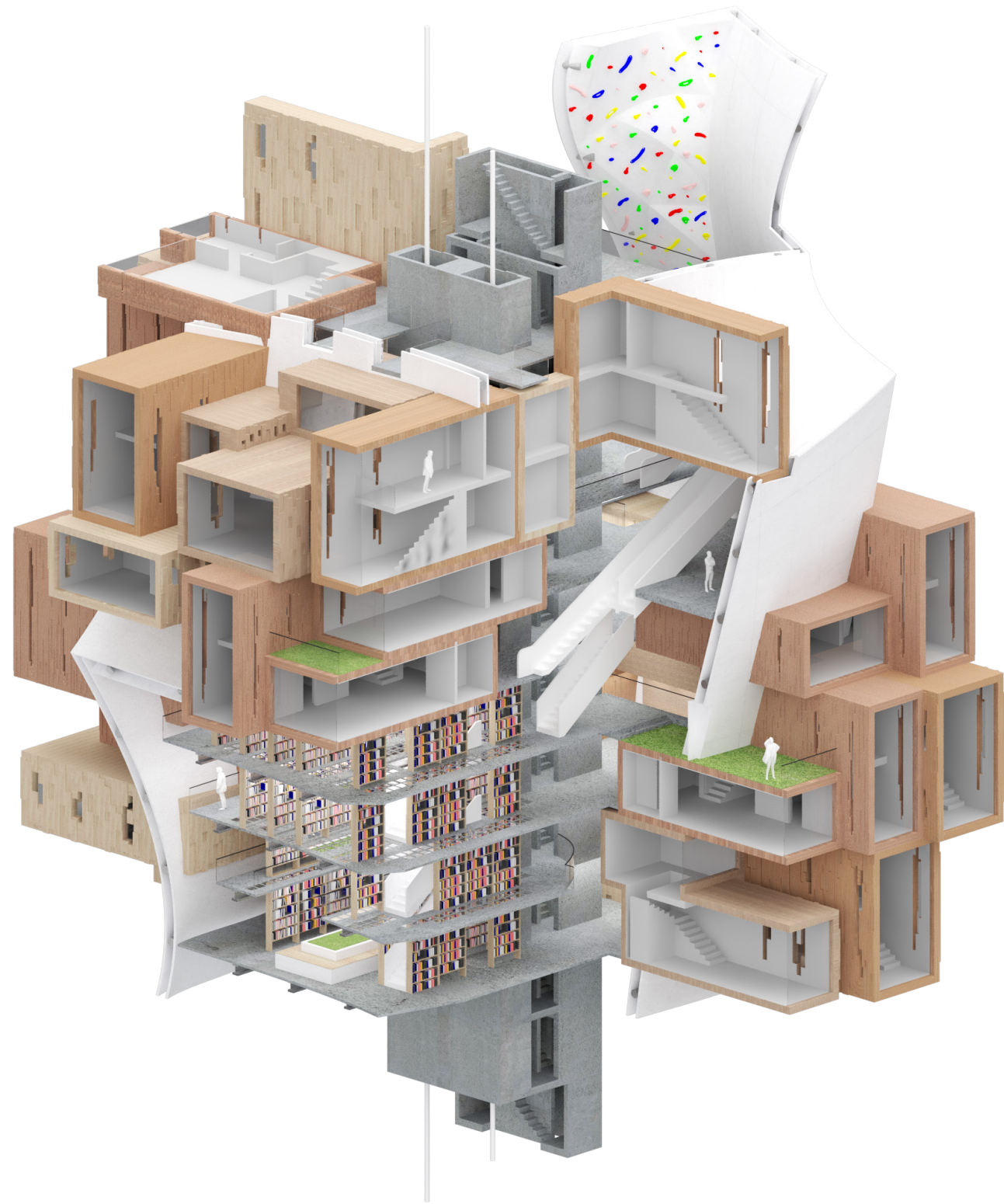


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The two system was then translated into two distinct structures that were combined together at the selected site, one as the stacking of units and another as an organic shape contains public space and circulations.



View from central plaza



1. Chunk model  
(Library - units)
2. Detail wall section  
(Material :GFRC,CLT)
3. Library view with structural

## Time Scape

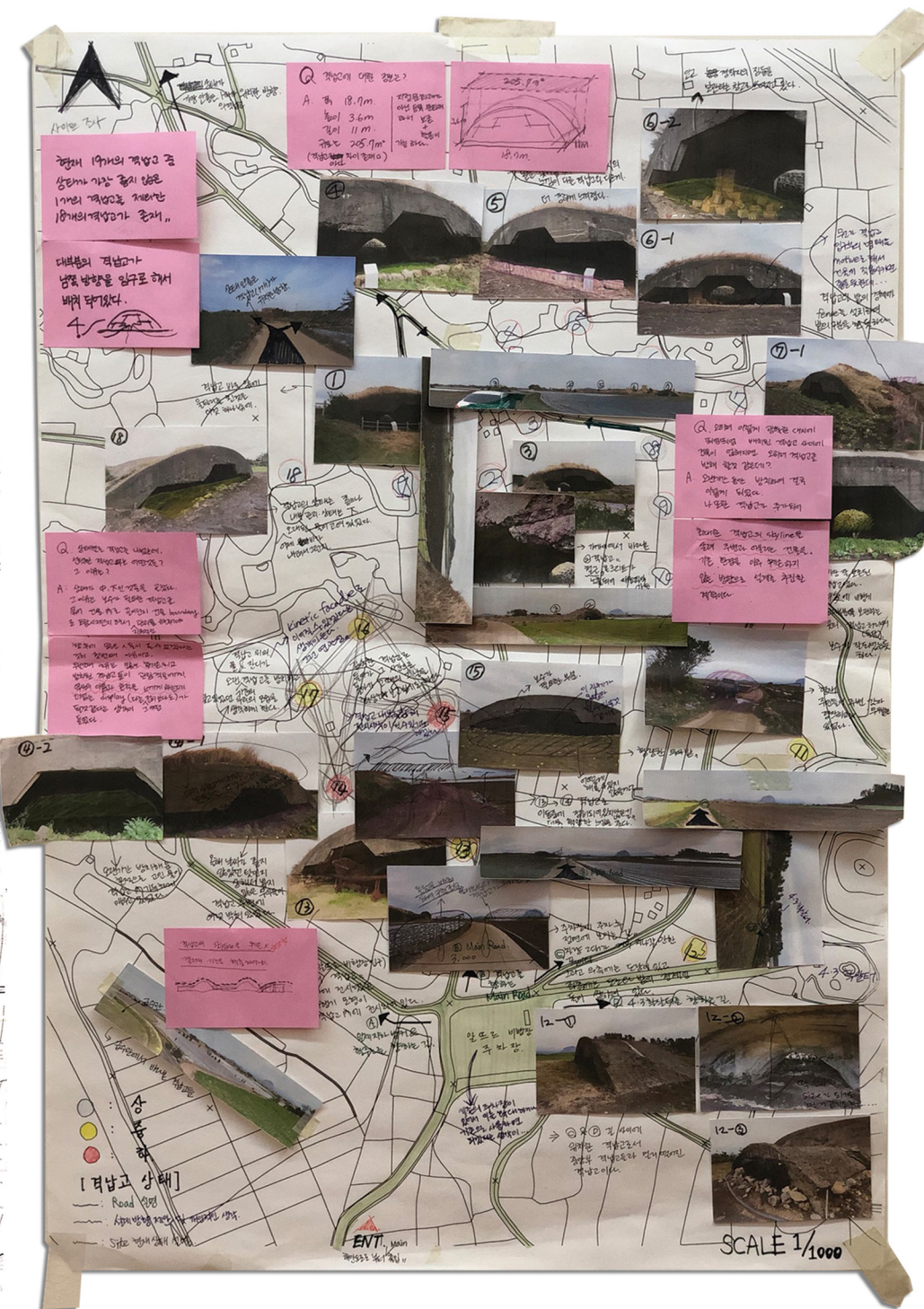
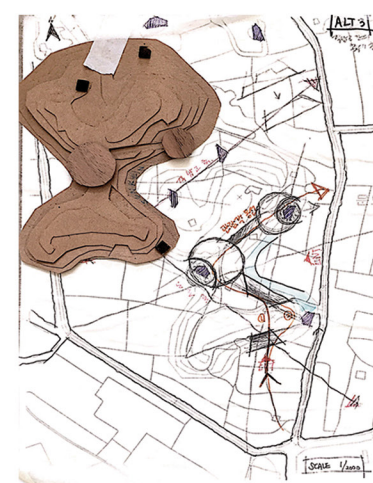
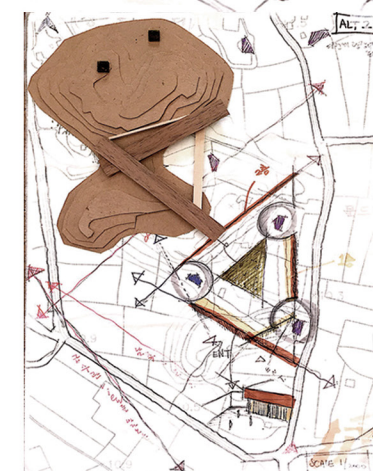
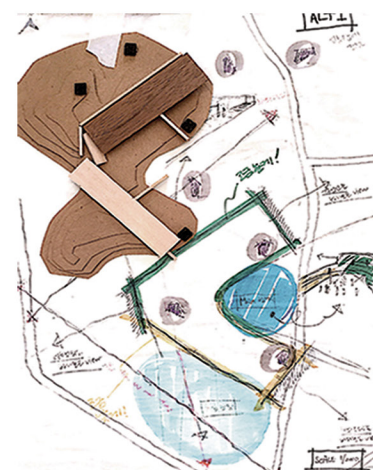
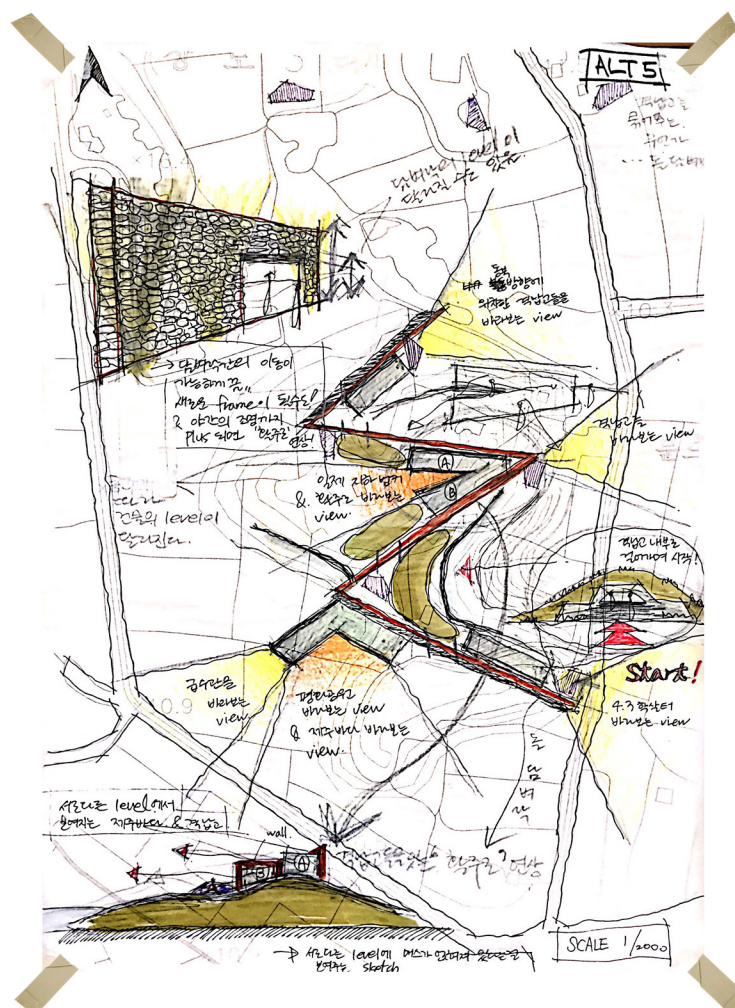
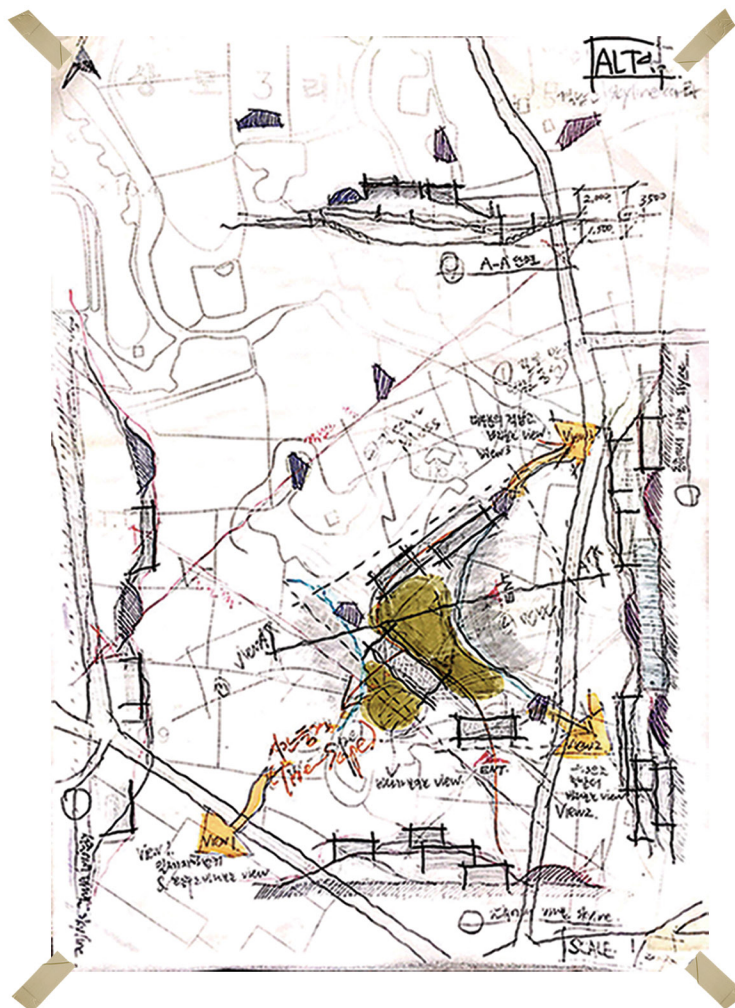
Academic 2016\_5th Graduation Year  
B.Arch, Yeungnam Univ.  
Program : Memorial Center  
Site : Jeju island, South Korea  
Individual work

In 1937, when the Chinese-Japanese War broke out, the sky over Jeju Island was filled with airplanes announcing the beginning of the war. In Jeju Island, which lies between China and Japan, the Altteureu region was one of the major military hot spots between the two countries, especially as it is located in the middle of the war.

In the middle of the fierce war, Japan prepared for a showdown on Jeju Island in March 1945 when the U.S. military invaded Iosima and launched an offensive against large cities on the mainland, including Tokyo.

The 19 vaulted hangars of heavy reinforced concrete constructed at this time contain the trials and history of the time.





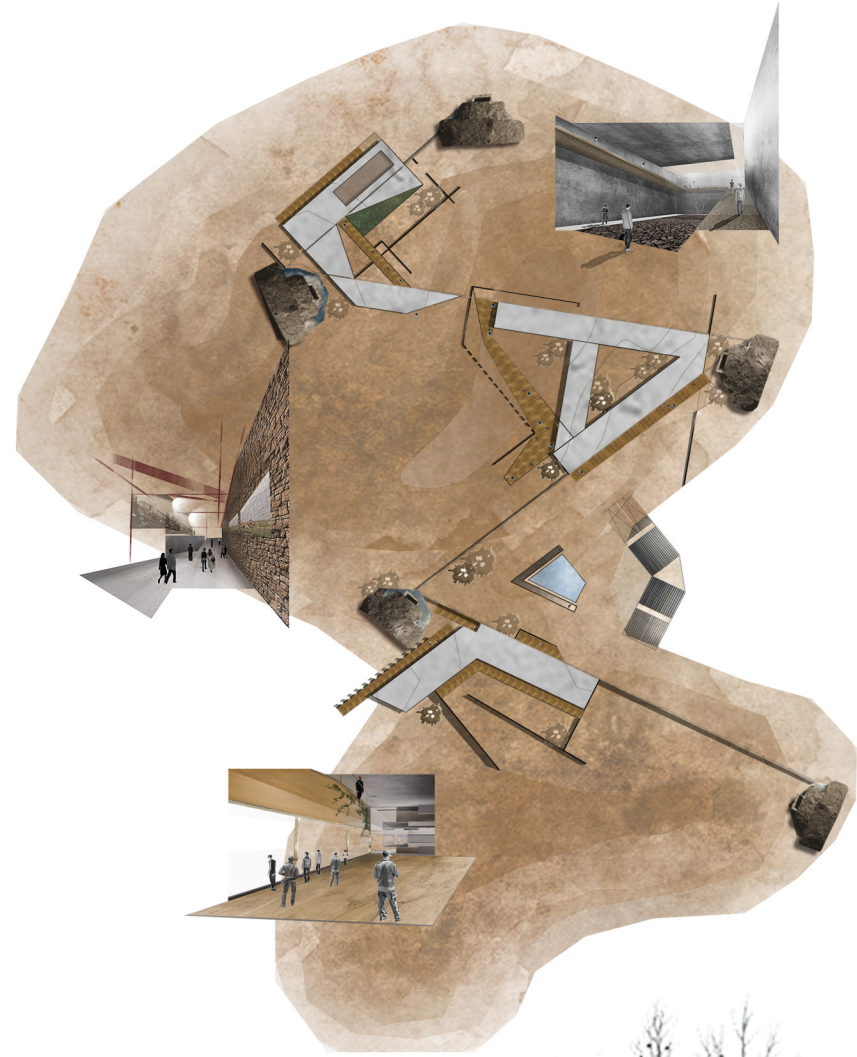
The land that had been waiting for us in the past.

It is currently the widest field on Jeju Island, South Korea. The Alteureu Airfield was designated as Registered Cultural Heritage No. 39 on May 31, 2002 and is owned by the Ministry of National Defense. It is currently used as a potato and a radish field for residents, and there is not a single street lamp. Due to such poor environment, the site has not been seen as a tourist destination, which could be considered an abandoned place for the nation.

I visited Jeju Island and studied 19 hangar conditions one by one, classifying them as upper, middle, and lower and reinterpreted them as a **dark-tourism memorial center**.

1	2	3	4
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- 1 Alt#4 sketches
- 2 Alt#5 sketches
3. Alt models and sketches
4. Categorized according to 19 hangar conditions



## Remembrance

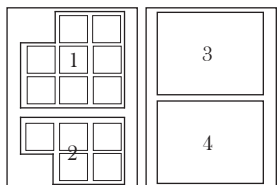
Most of Jeju is made up of hills and fields. I wanted to use this point to show the **harmony of buildings, hangars and nature** within the boundaries of not damaging the skyline of nature. When I was thinking about what I would display or what I would publicize, I thought that I should make the best use of locality and display them on subjects that would go with that.

First, the sense of "touch" was gained and the characteristic of Jeju Island was combined so that only the wind could blow inside the building. This meant that the first interest was finally given to the land of Altteureu, where no one had ever visited.

Second, visitors can walk along the wall and watch videos of the Chinese-Japanese War, and watch the hangar outside to see the results of the war.

Lastly, under the theme of "Remembrance", a memorial hall was designed to honor Jeju Island residents who were killed countless times while building the Altteureu airfield. The nearby 4.3 massacre site also wanted to continue the meaning of the Jeju people's massacres and make sure that the memorial service was carried out only in this space.





- 1 Floor plans of 3 buildings
- 2 Model pictures
- 3. Sunken in the second gallery
- 4. Out door view from a gallery

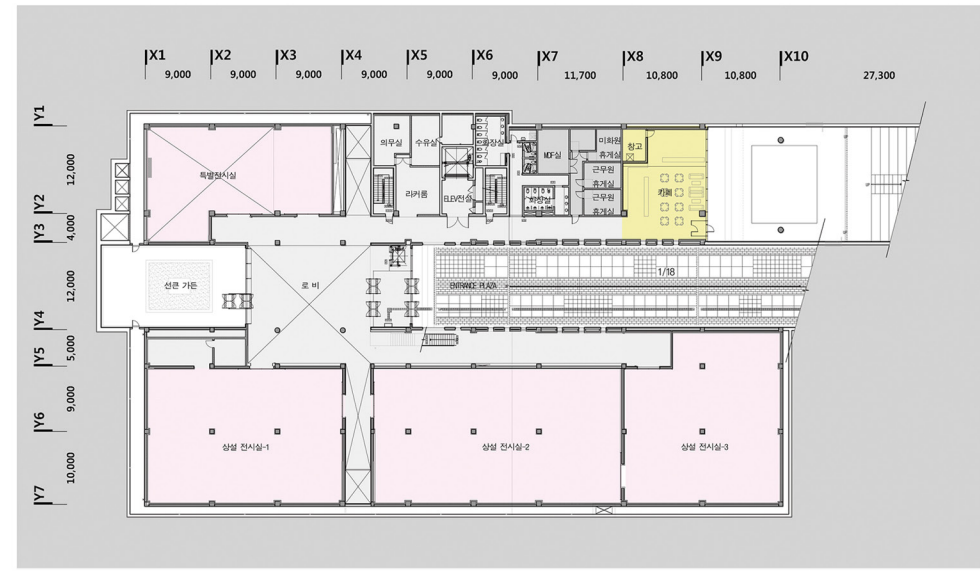
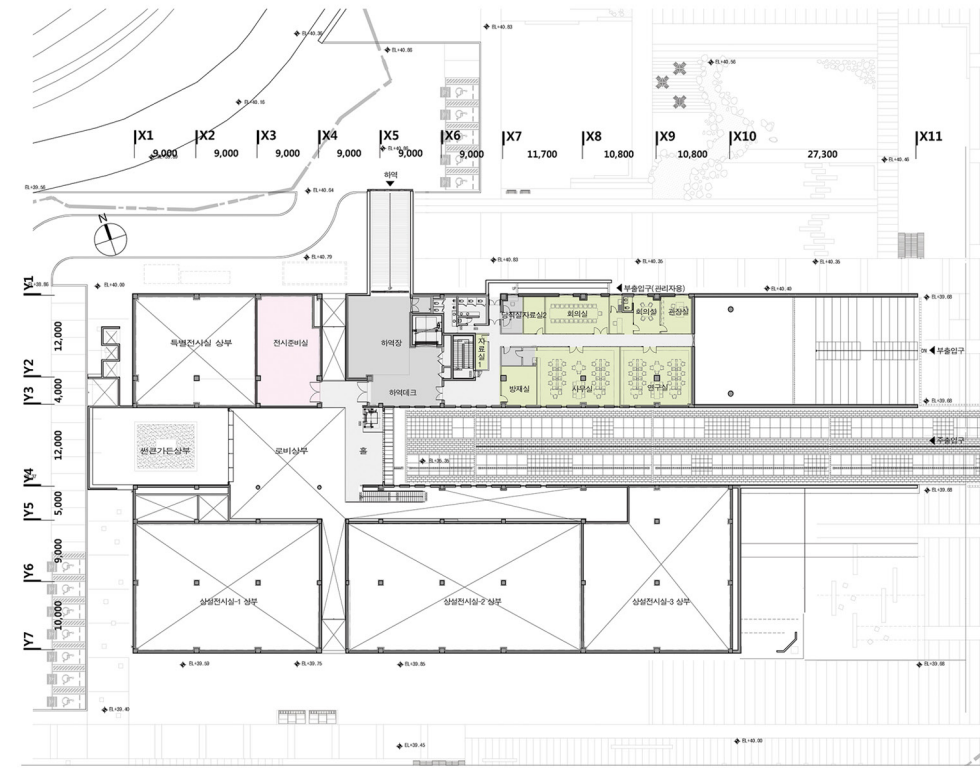
# The National Museum in Ik San, South Korea

Professional Experience  
 Joined in CD Phases  
 2017-2018 (Built)  
 National Museum  
 Ik San, South Korea

I participated in this project when it was selected national museum design. There was an old museum, but the region representatives held a design competition for re-structuring National Museum in Ik San. The site was surrounded by mountains that were not much tall, and there were old cultural heritages, like a five-story stone pagoda. So the government gave the direction that new constructing building design should not bother the surrounding scenery with harmonized other heritages. That is the main reason why our building was built underground.

During participating in this project, I drew several drawings while continuing to communicate with structure, MEP consultants. I usually focused on the floor plans and sectional drawing. While we work in the CD phases, we should keep communicating with governments advisors. So, during that time, I made presentation materials, including some diagrams, retouching plans, and 3D visualization work by using a twin motion program.

**Role :** Plan drawing (Auto Cad, Revit), 3D modeling (Rhino), retouching the plans (Photoshop, Illustrator), 3D visualization work (Twinmotion)



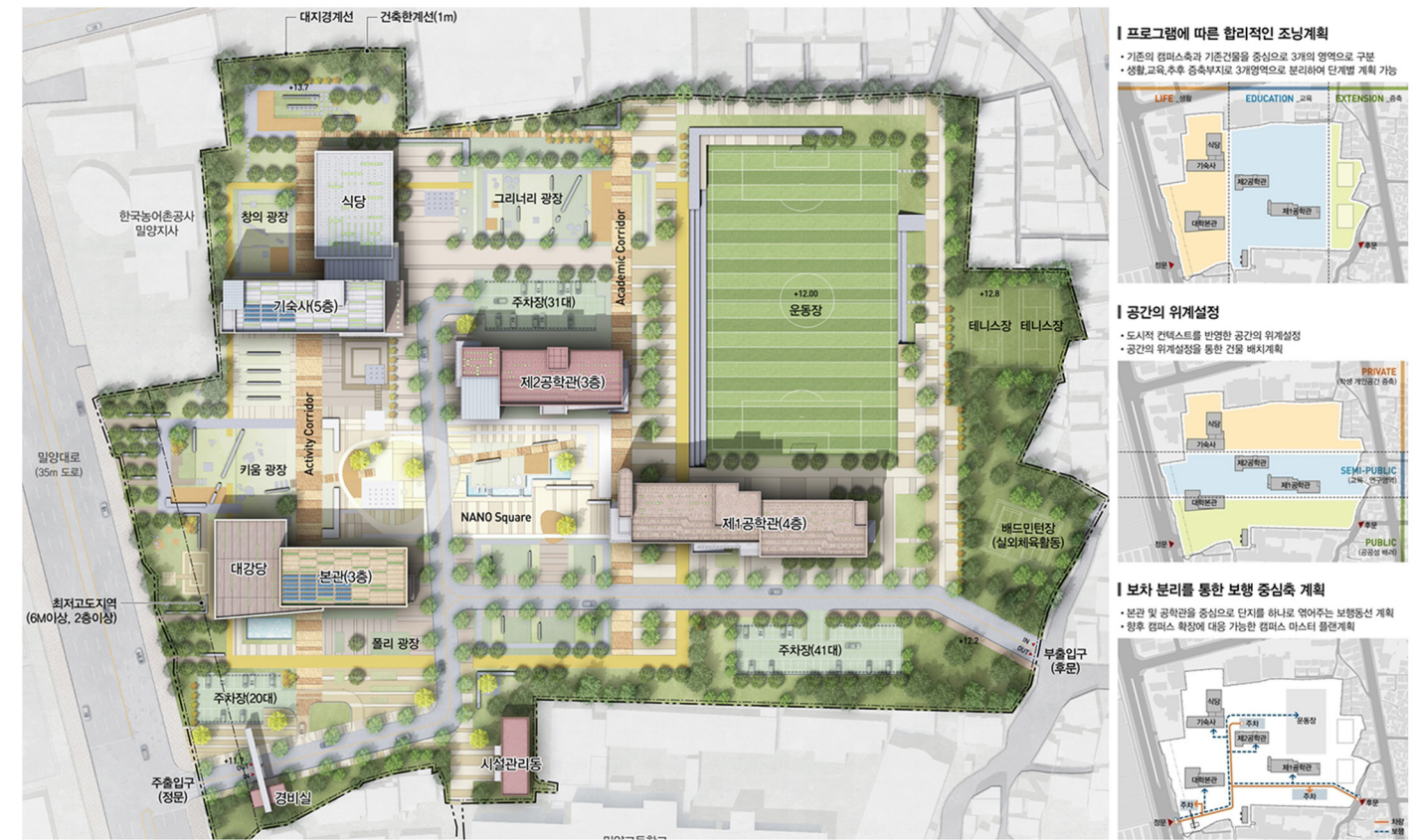
# Korea Polytechnics University Campus

Professional Experience  
 Joined in SD, DD Phases  
 2017  
 Education building  
 Mil Yang, South Korea

This project includes not only buildings but also surrounding context because it was located in the residential zone. So we mainly designed the buildings with a landscape harmonized with the original site context. We organized with 3 zones, life, education, and extension zone with put hierarchy of the spaces, private, semi-public, and public from the top of the site.

As an architect, I participated in this project in the SD, DD phases, especially, drew schematic site plans, floor plans, and exterior elevation by using Auto Cad, Revit, photoshop, and illustrator. Also, I made several diagrams regarding site programs and pedestrian, car circulation.

**Role :** Plan drawing (Auto Cad, Revit), retouching the plans (Photoshop, Illustrator), Producing physical models



## Residential Office Tower in Cheon An

Professional Experience  
Joined in DD,CD Phases  
2018-2019  
Residential Office Tower  
Cheon An, South Korea

This is one of the projects that I participated in for a long time(over 1.5 years). While I joined this project, I had opportunities to closely contact structure, MEP, landscape consultants and kept revising the plans with their comments. Although this project had its own episode that made a longer construction period between the development firm with the construction firm, I gained a wide range of architectural experiences through this project.

**Role :** Floor plans, sectional drawings (Auto Cad), facade design (Sketch-up)



## Apartment in Pyeong Taek

Professional Experience  
Joined in CD Phases  
2019  
Apartment  
Pyeong Taek, South Korea

From the 1970s, there was official apartment development from government announcements which can get similar shapes to current ones. Among them, towers and long rectangular shapes of apartments can be the representative type of Korea's residential style. While I participated in this project, I could work on how I can layout those types of apartments and partly worked on CD phases architectural experiences.

**Role :** Residential units drawing (Auto Cad), layout of the underground parking lot (Auto Cad), retouching the plans (Photoshop, Illustrator)



## Business Office Center in Namyangju

Professional Experience  
Joined in PD phases  
Design Competition (selected)  
2018  
Office Center  
Namyangju, South Korea

As following the importance of transportation, in Korea, the factory wants more located near the city. To build in the expensive small size of the site, the building has to build as a tower. So each small firm is organized as the unit types and put into each floor of the tower. While we designed this project, we focused on the site context which was placed right next to the river, designed nature public spaces with low-level commercial spaces. And designed 3 towers with cross images of the facade which give imagine with context programs features.

**Role :** Make diverse diagrams for presentation (Photoshop, Illustrator)



## Residential Building in Kimpo

Professional Experience  
Joined in CD Phases  
2018-2019  
Residential  
Kim-po, South Korea

Through this project, I learned the relationship between construction and architectural drawing. My task was to organize the whole system, such as MEP, construction, lighting, and so on, and help to not place it overlap. So, I keep in contact with different parts of consultants and I could know well about the system of the architectural system in a short time.

**Role :** Floor plans, sectional drawings (Auto Cad)

