

FACULTY OF ARCHITECTURE AND PLANNING
PORTFOLIO THAMMASAT UNIVERSITY
2009-2016



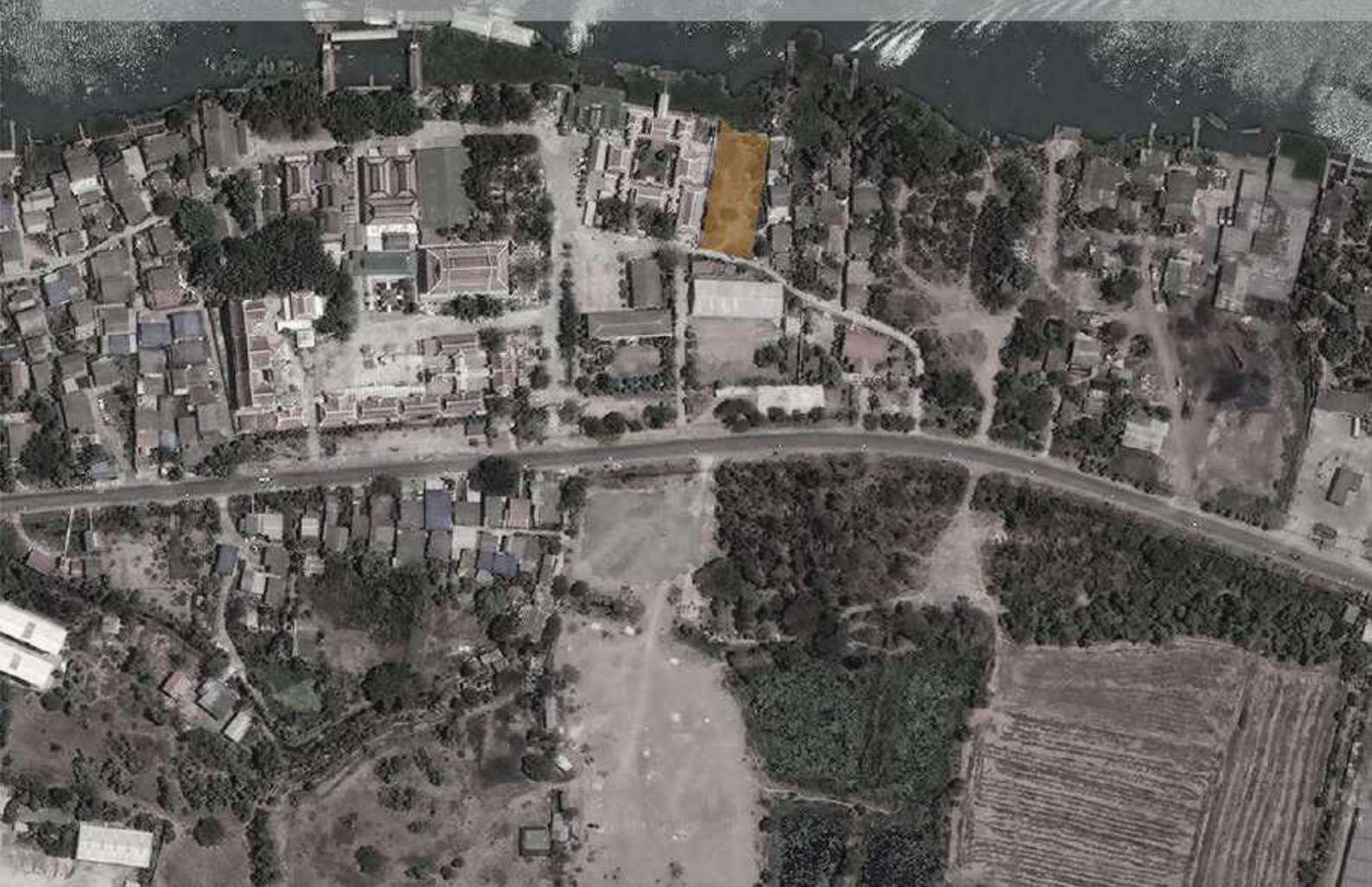
SUPINDA BANNAPOB

Site Analysis

Site condition

Location: Bangsai,
Ayutthaya, Thailand
Landform: Drainage basin
Area: 1378 sqm.
Buildable area: 820 sqm.
Landmark
East: Watchoenglane school
North: Chaopraya River
South: Thetsaban 10 Road

The studio's task is to design a house in given condition and inspired by the given case study for a family with couple, grown children and maids. The site located on the banks of the Chao phraya river, the site is frequently encounter flood and river bank erosion and surrounded by school and temple at Thetsaban 10 Road next to Watchoenglane school, Bangsai, Ayutthaya, Thailand. The program of the house include, living room, dining room, master bedroom, second bedroom, maid bedroom and service area for washing and garage.



Single Space

FROM CASE STUDY TO
Concept development

Phase 1 | Generate conceptual ideas from the precedents case study to obtain conceptual design terms.
Create an experimental design process and synthesis conceptual term into single space
(1 user with 2 programs).

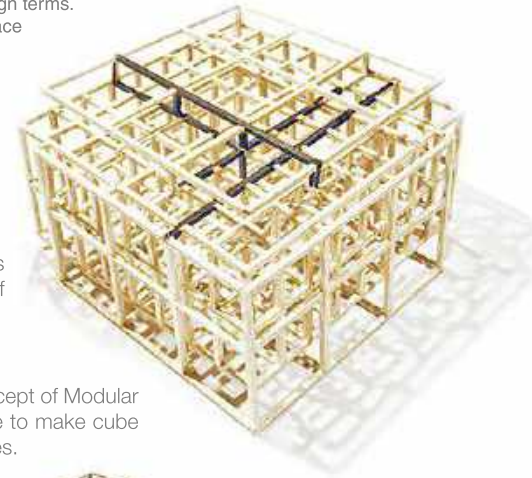
Concept

Modular creating space and plane

Space created from duplicate cube and merge them together to create new form and space by using the part of the cube which intersect with another cube and eliminate some part that not intersect with another.

Conceptual Model 1

This conceptual model on Peter Eisenman's concept of House VI show how Eisenman create his House VI show, he create rule to build this house by put 3 modulars together and create wall of the house from the intesection cube and make void and space from this grid.



Conceptual Model 2

This conceptual modeled on conceptual model 1 by using same concept of Modular creating space and plane. This model base on new rule that I create to make cube look symetry. This model made of 4 main cube and put in 16 grid lines.

Conceptual Model 3

This conceptual model develop from conceptual model 2 by merge 2 cube in large rectangular cube which made of 9 cubes together to form new shape to create space.

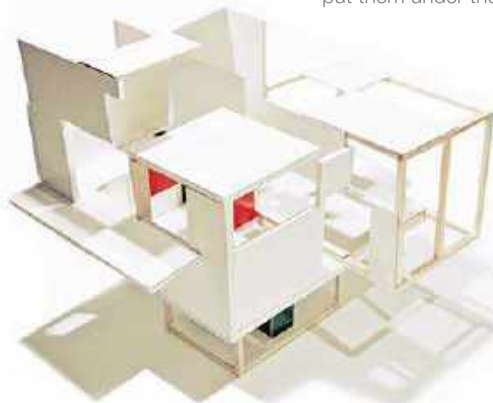
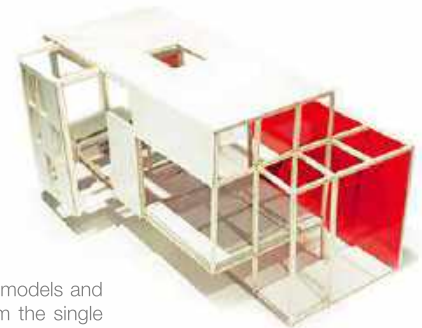


Conceptual Model 4

This conceptual model develop from conceptual model 3 by put more hight to make more space by concern on main 3 cube merge together to create new form and space under the grid line, the height of the cube base on ratio of the grid. This model was build from grid grid diagram which set format to set the height and size of the model and with this lead to single space

Conceptual Model 5

This conceptual model develop from conceptual model 4 by put plane under the rule of intersection cube and new rule which is invert plane by put them under the modular grid.



Single Space Model

This Single space model developed from 5 conceptual models and plan into grid line by put cubes merge together to form the single space into the grid line, the height of the cube base on ratio of the grid. This model was build from grid grid diagram which set format to set the height and size of the model and put plane to create space that people can live in.

Frame House

FROM CASE STUDY TO
Concept

Grid & frame

Location: Bangsai, Ayutthaya, Thailand

Area: 820 sqm.

Architectural style: Post-Modern

Structural system: Concrete Frame Structures

Concept: grid concept inspired from HOUSEVI by Eisenman





The site is located in Bangsai, Ayutthaya, Thailand. The site is located on the banks of the Chao phraya river. Taking advantage of the large site a courtyard was planned as the focal point of the house and built all other spaces around it. The primary objective was to create an openness feeling and connect all space with garden.

Kitchen, dining and living areas are located on the first floor. The space is increasing in transparency as one moves through the house closer to the river. A sheltered outdoor walkway leads to the terrace, an outdoor living area and infinity pool that overlooks the Chao phraya river.

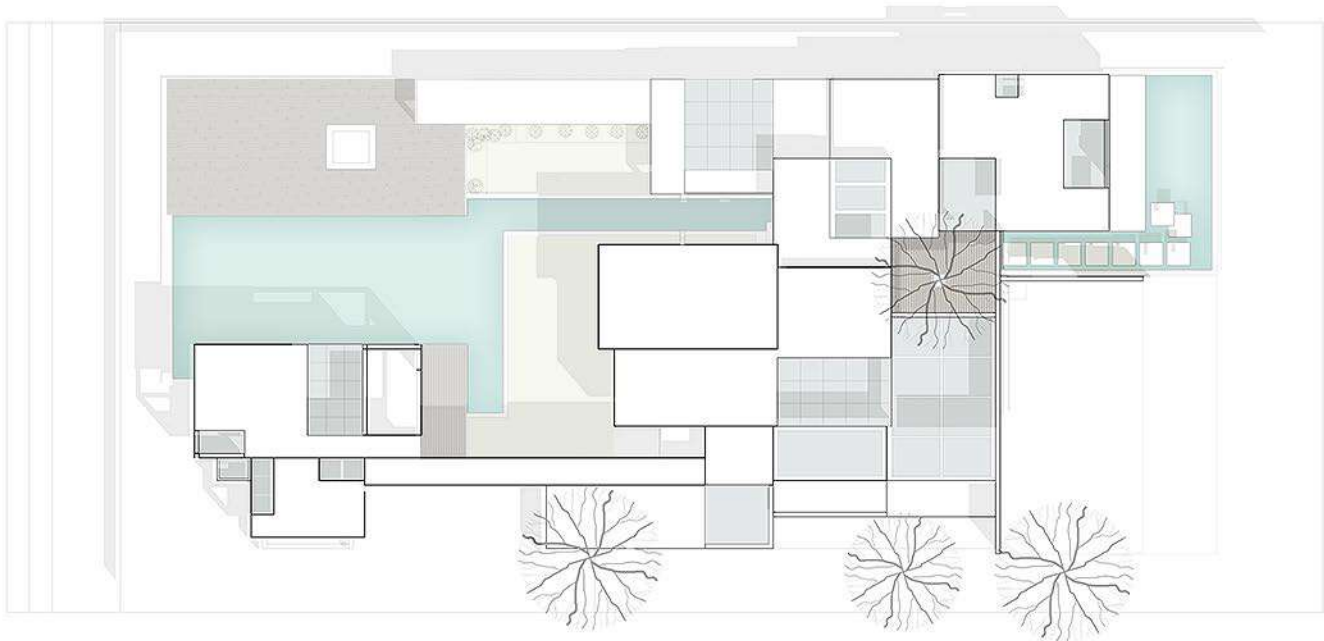
Master bedrooms are designed with double volume space and part of the bedroom's floor was designed to be glass floor, allowing users to see through from the bedroom to the garden at the first floor to make the user feel close to nature. The second bedroom was designed with a private balcony and two-level loft.



The facade of the house is made of wood blocks, which design from a grid base on the main concept of the house. The facade not only represents the main idea of the house but also makes the house look unique and fashionable.

Set of Drawings

Final drawings

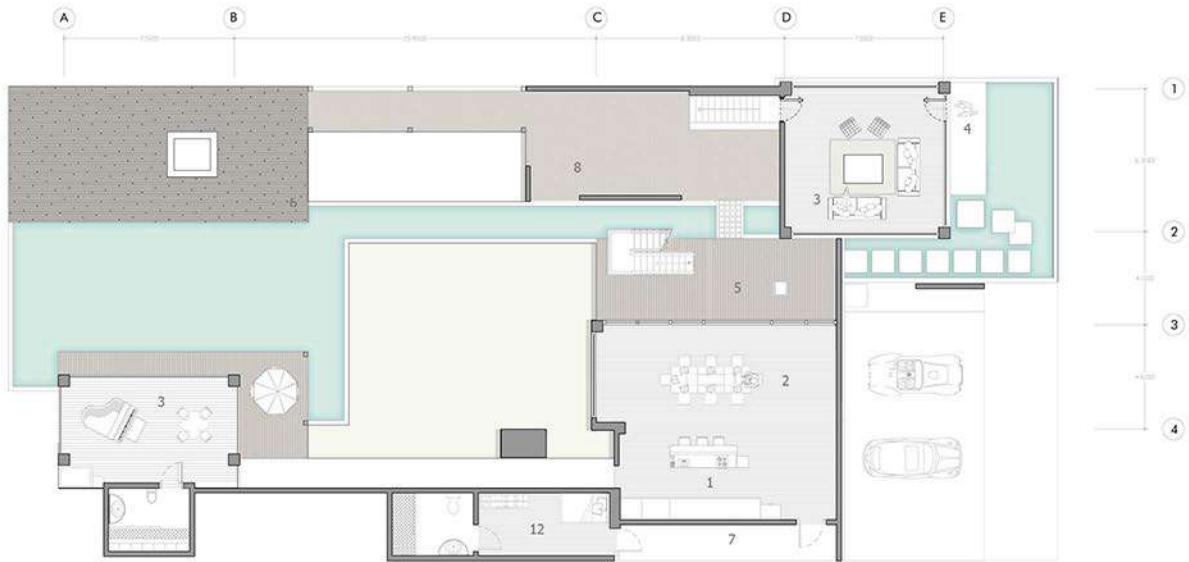


Roof plan

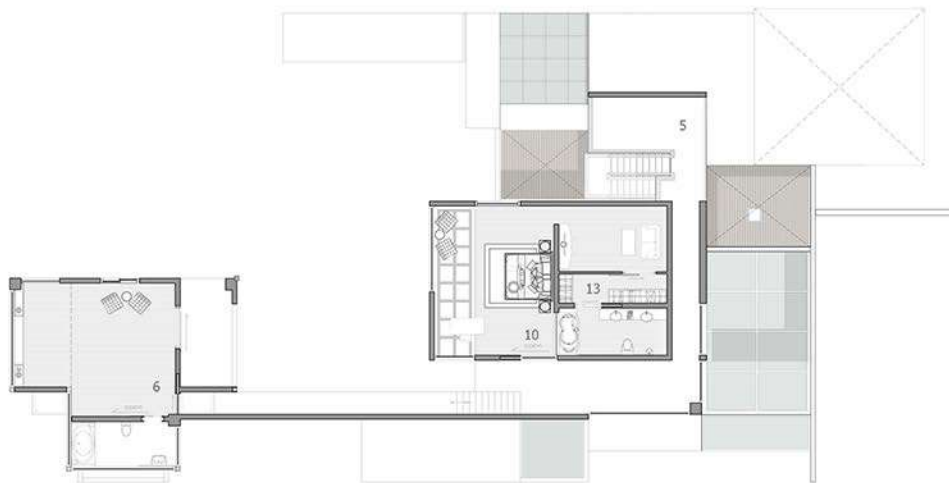


Set of drawings

Concept of the house is to plan the house by using grid line and project line to plan position of the building, wall, facade, glass frame, solid and void of the house.



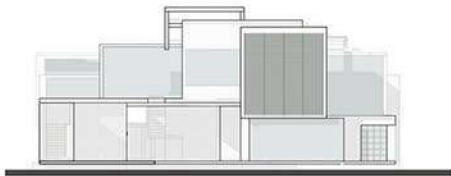
Ground floor plan



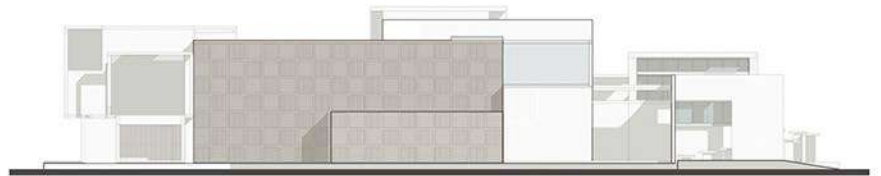
- 1 Kitchen
- 2 Dining Room
- 3 Livingroom
- 4 Entry
- 5 Hall
- 6 Outdoor Terrace
- 7 Washing area
- 8 Gallery
- 9 Garage
- 10 Master Bedroom

Second floor plan

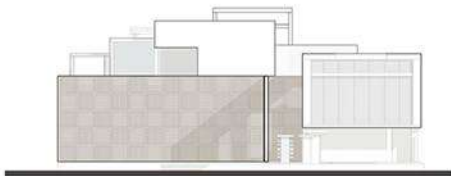




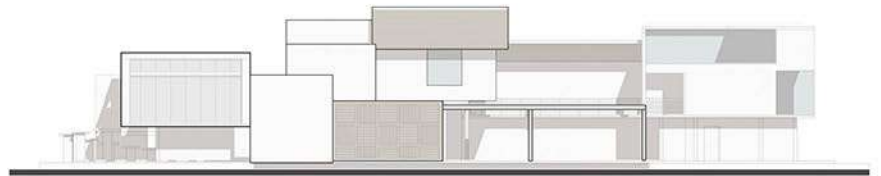
North Elevation



East Elevation

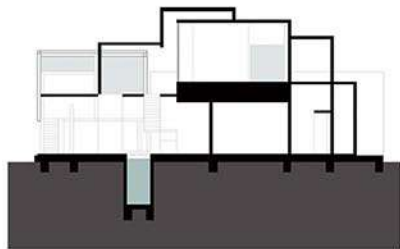


South Elevation

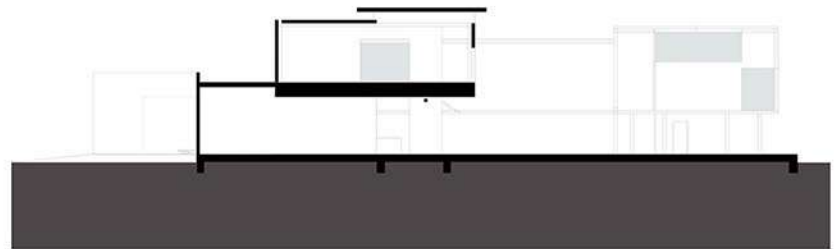


West Elevation





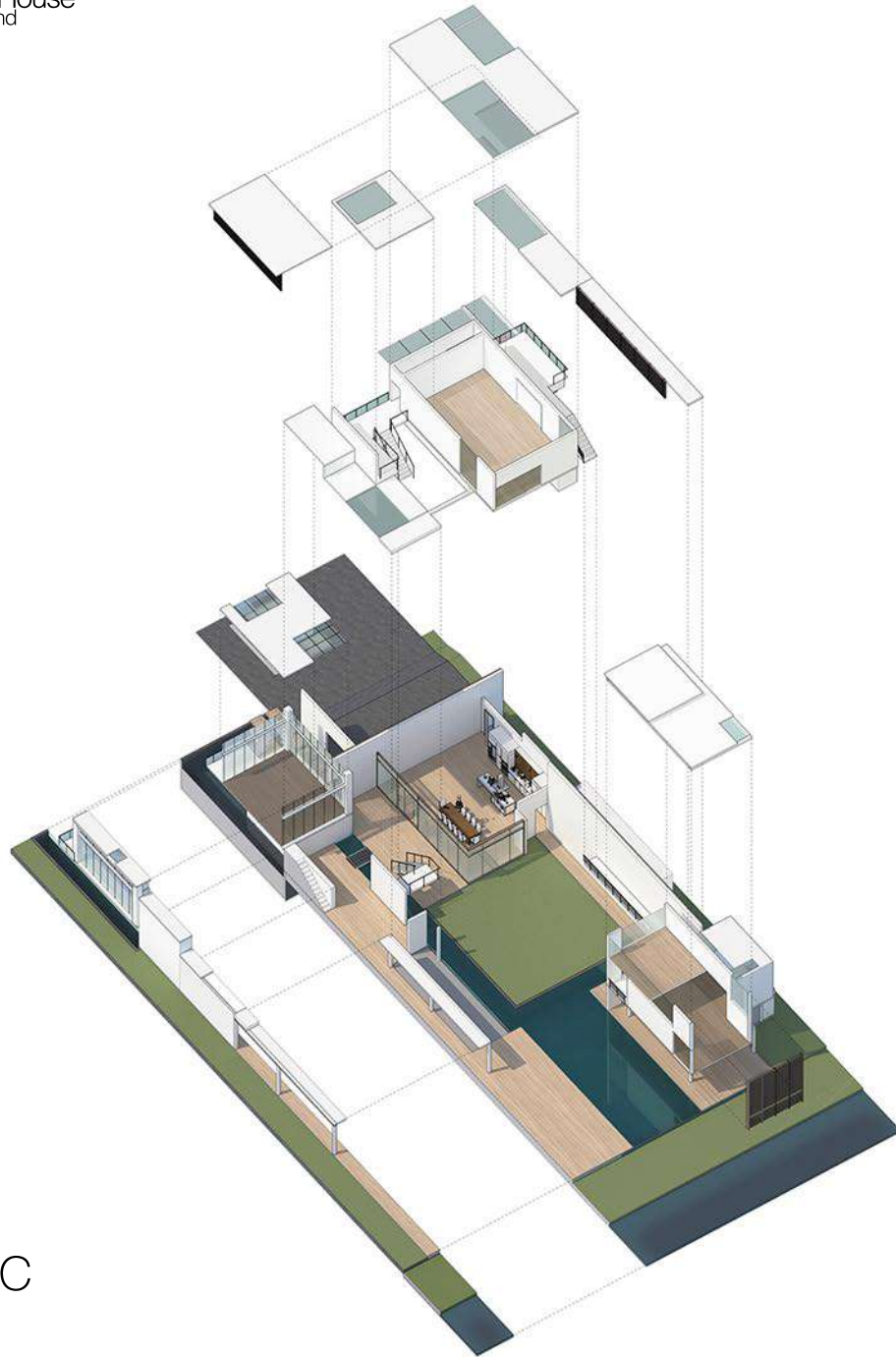
Section A



Section B



Section
Final drawings





Site Analysis

Site condition

Location: Pratumwan,
Bangkok, Thailand
Area: 320 sqm.
Buildable area: 450 sqm.

Landmark
East: Angreedunang Road
North: Siam Paragon

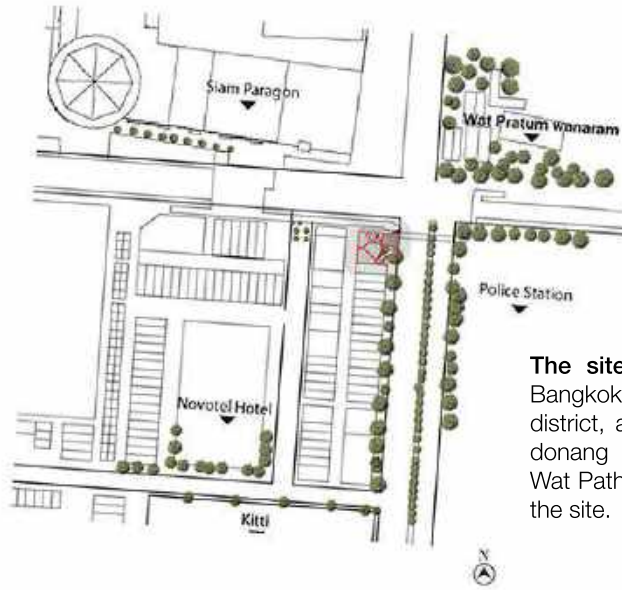
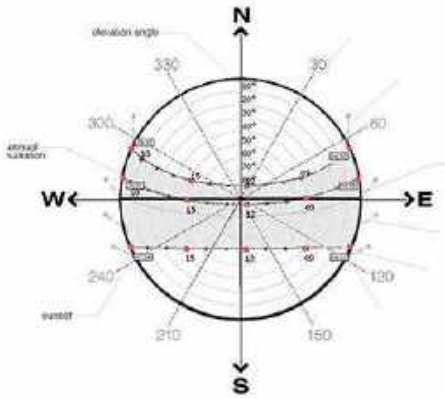
The studio was tasked with designing the architecture that represent soil. The site was located at the heart of bangkok "Siam Square" - known as Bangkok's largest shopping and entertainment hub, sometimes referred to as the "SoHo" or "Shinjuku of Thailand". The pavilion not only intent to creating a space that make people feel and know the value of soil through the architecture but also relationship between the pavilion and Siam Square by adding attractive program in this case I choose restaurant. The Soil pavilion's restaurant would serve health-conscious consumers who have a busy urban lifestyle. The target groups are teenagers and middle to high income office workers.

BTS SIAM

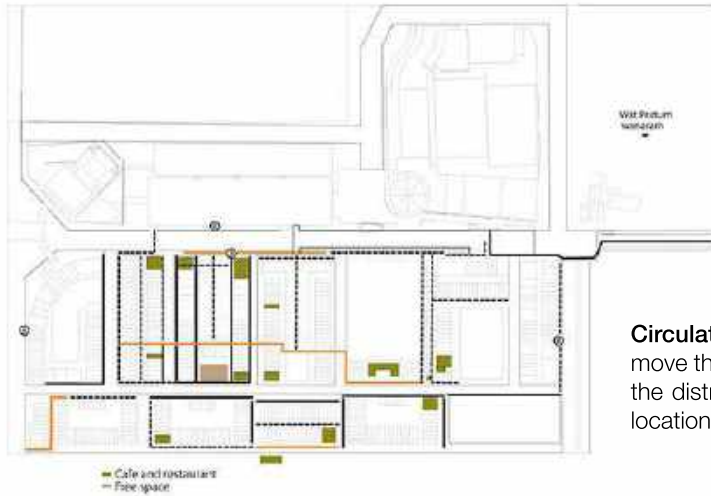
SIAM PARAGON

ANGREEDUNANG ROAD

Climate Analysis
Sun chart



The site is located at the heart of Bangkok Rama 4 Road in Pratumwan district, and adjacent to the Angreong road. Siam Paragon and Wat Pratum Wanaram is landmark of the site.



Circulation diagram show the way people move through and interact with a building in the district and the diagram also show the location of restaurant and cafe in Siam.



Soil Pavilion FROM SOIL TO Concept

Concept: Soil for life
Location: Prathumwan, Bangkok, Thailand
Area: 320 sqm.
Architectural style: Post-Modern
Structural system: Steel Structure
Concept: Inspired by termite mold





Form of this building generated from 3d Voronoi diagram. Nucleus of voronoi cell represent one function of the building and related context of the site. Form of this building created from plot grid each point in 3d voronoi diagram represent room and take some of the unnecessary cell out to create form of the building.

Mushroom Restaurant located on the ground floor, serves the finest mushroom dishes (mushroom is part of the concept because mushroom is termite's food). Lounge and edutainment space located on the second floor, exhibition space that make visitor realize value of soil. There are two entrance to the soil pavilion first is from the ground floor, second from the skywalk. Office and Mechanical room located on the third floor which is private zone only for staff.

FROM CONCEPT
Program
Charts



mechanical room



office



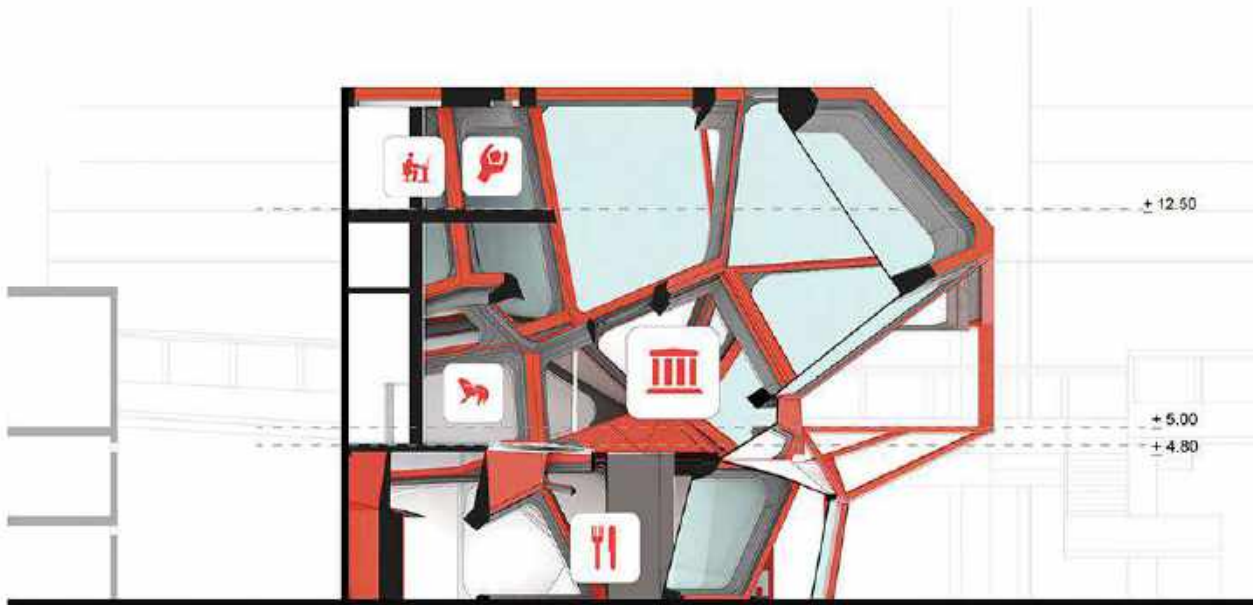
soil exhibition



restaurant



lounge



The program for this building act as nucleus of the voronoi cell and create form of the building First floor is healthy restaurant, "The Mushroom". Second level is soil exhibition and lounge, provide an information about soil through interactives screen computer, book and magazine. Third floor is administrative area, restricted to staff only.

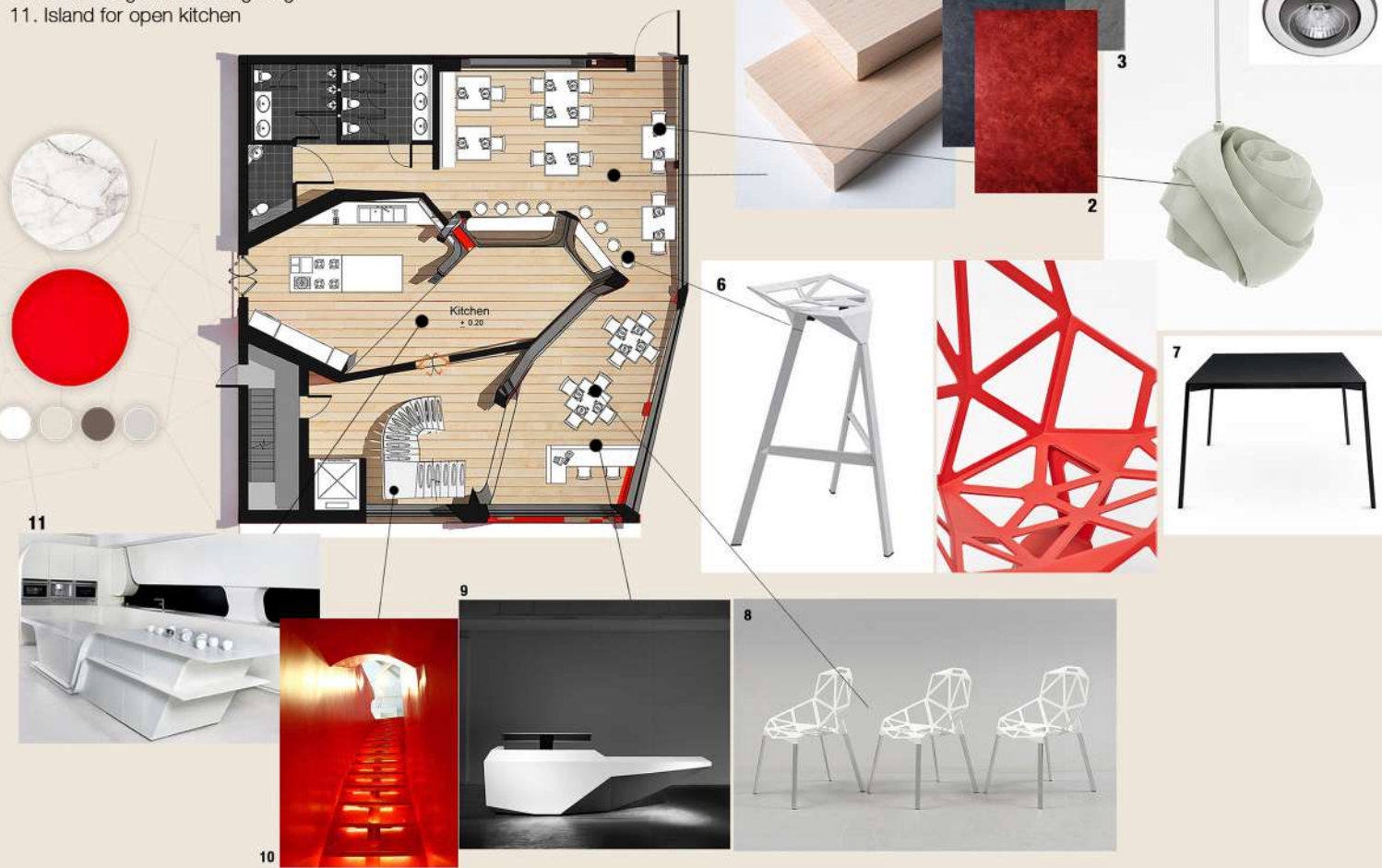
1

2

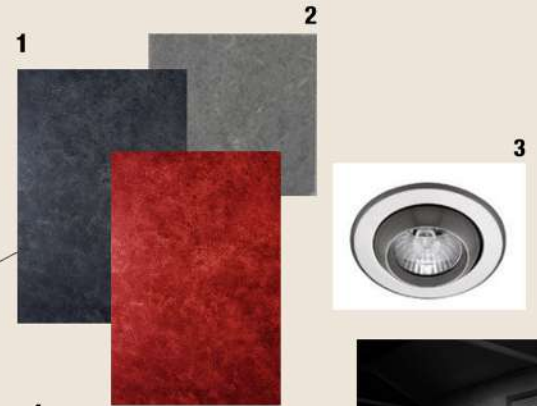
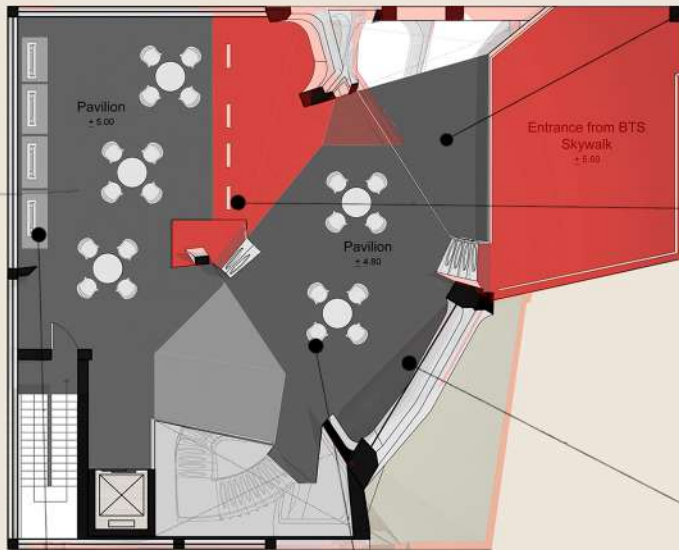
- 1) soil pavilion
(computer zone)
- 2) soil pavilion
(interactive screen)



1. Dining area wooden floor
2. Dining area wall
3. Toilet area floor
4. Pendant light for Dining area
5. Eyeball downlight
6. Magis Stool for high top tables areas
7. Magis Table for Dining area
8. Magis Chair for Dining area
9. Counter design for cooking class kitchen
10. Stair design and stair lighting
11. Island for open kitchen



1. Pavilion area wall
2. Pavilion area floor
3. Eyeball downlight for all pavilion area
4. Digital Interactive screen
6. Chair and coffee table for pavilion area
7. Exhibition display Counter

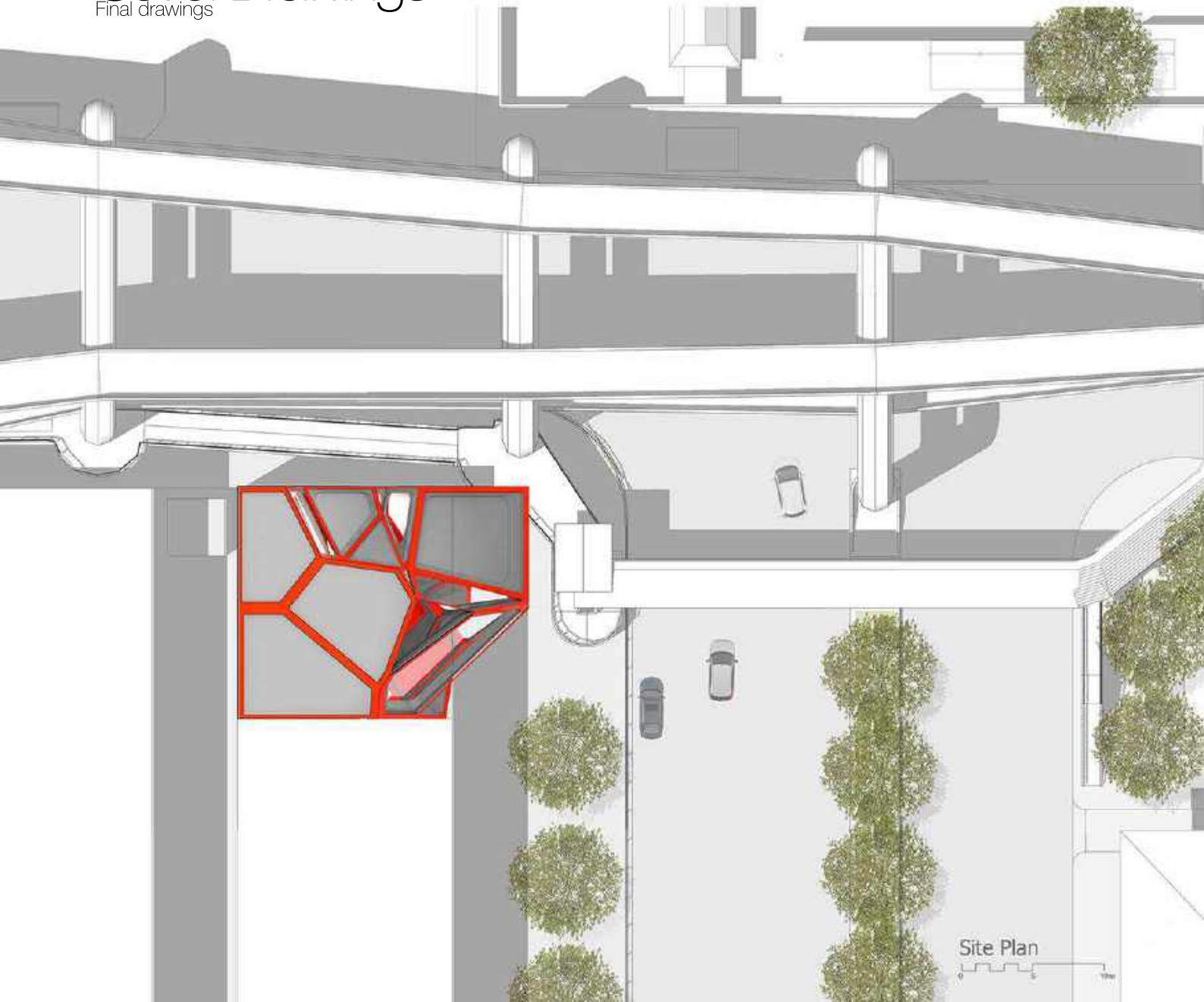


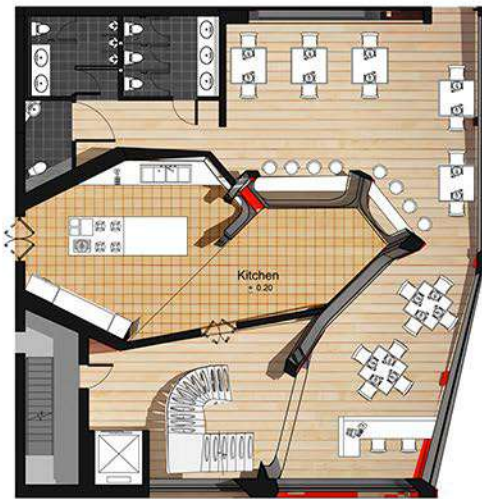
7

6

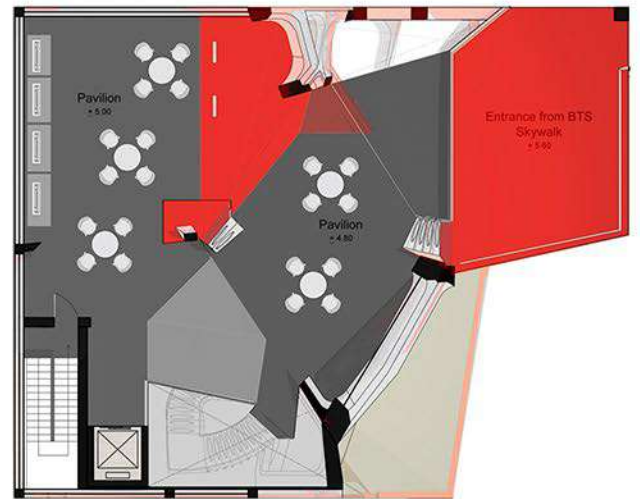
Set of Drawings

Final drawings

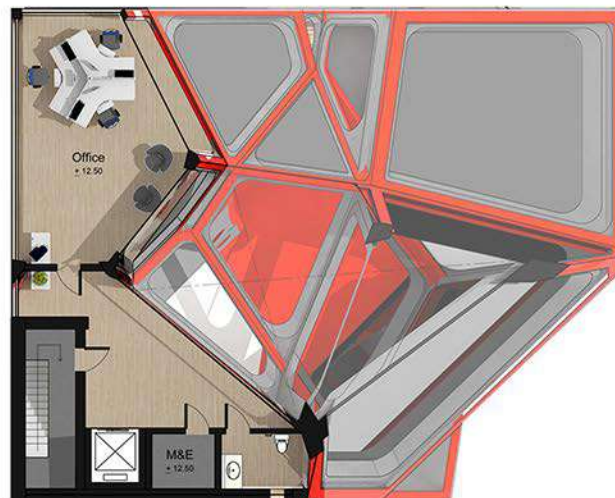




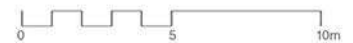
Ground Floor Plan



Second Floor Plan

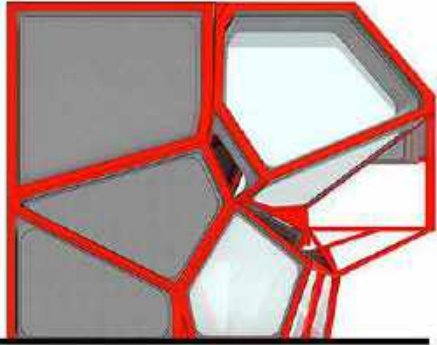


Third Floor Plan



Elevation

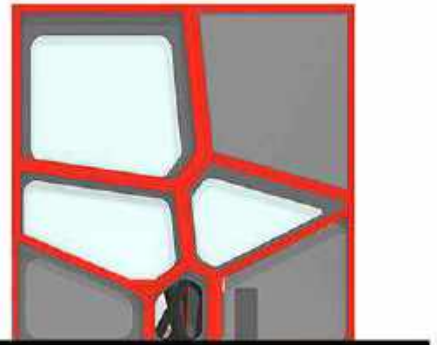
Final drawings



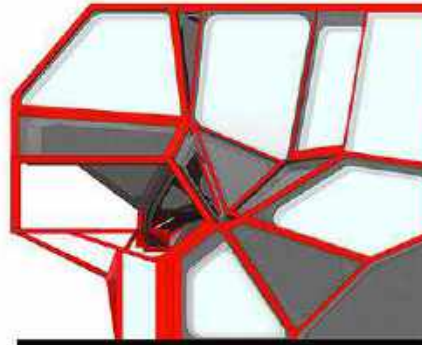
North Elevation



East Elevation



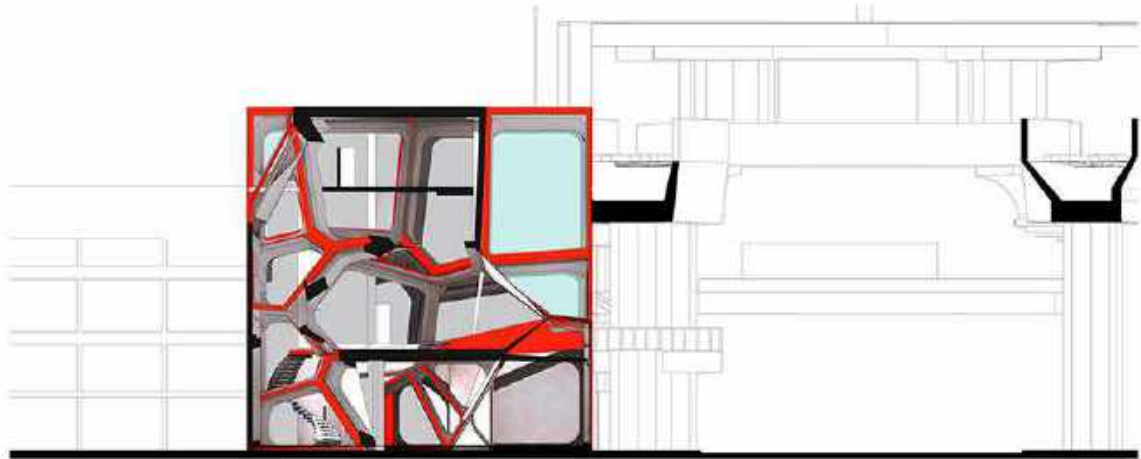
West Elevation



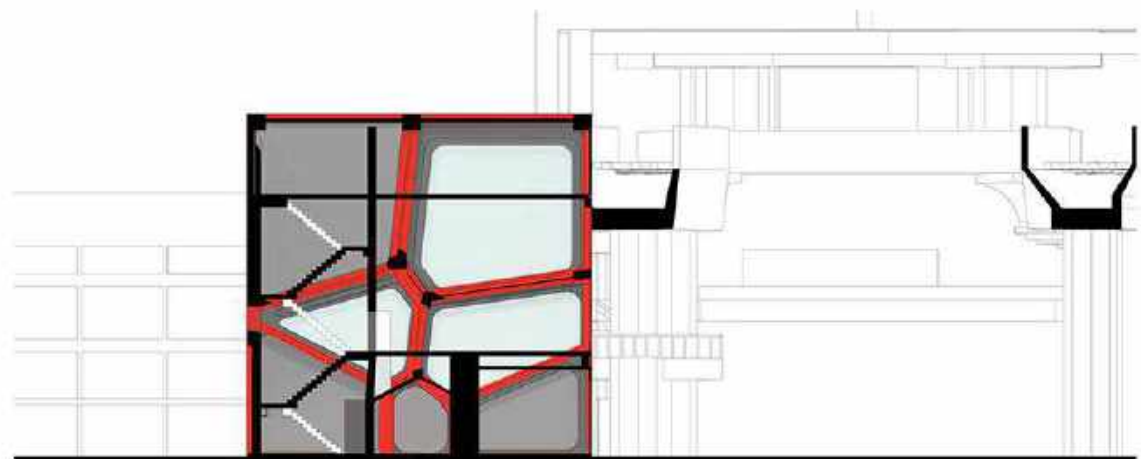
South Elevation

Section

Final drawings



Section A



Section B



Site Analysis

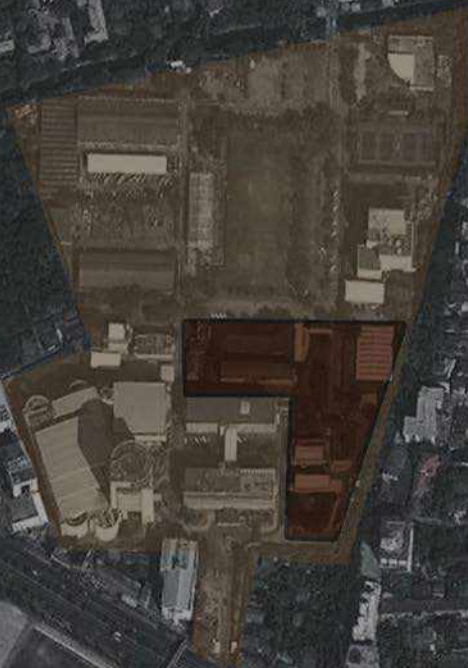
Site condition

Location: Jatujuk, Bangkok,
Thailand

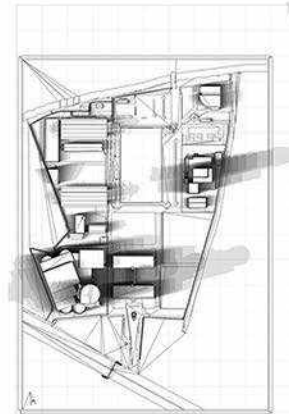
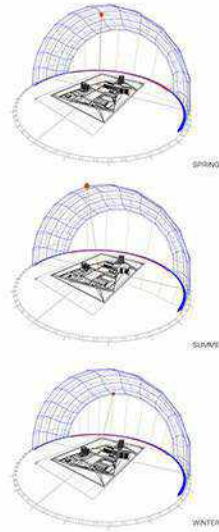
Landform: Flat

Area: 62,200 sqm.

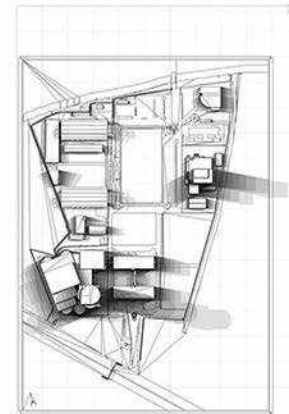
The task of the project is focusing on how to design a high-rise, mix-use building, which serves a the office, service center. The building's main structure will be designed in composite structure, under 62,200 sq.ms. of the building areas. This project is to design a headquarter is divided into three zones, highrise tower, undergroundparking and widely cantilevering podium building. Requirement for the new building consists of Head Office and Administrative office located in high-rise building and multi-purpose, meeting room, ballroom, retails, canteen, office and PEA service center which provide employee a activities and recreation center such as fitness,table-tennis, etc located in 5 storey-podium.



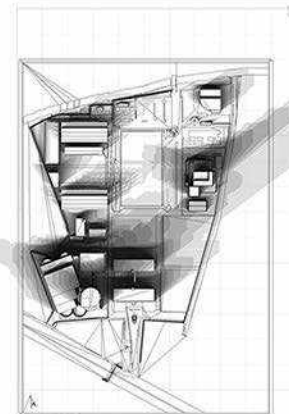
SITE ANALYSIS: Insolation Analysis and Sun Path



SPRING

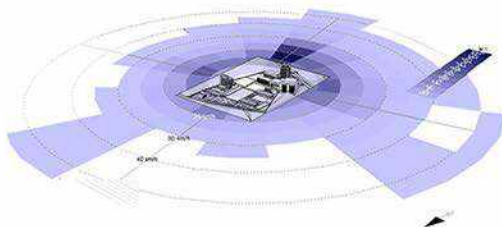
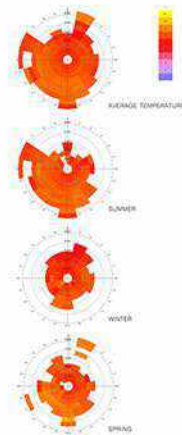
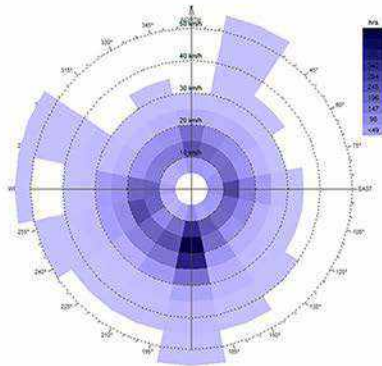


SUMMER



WINTER

Annual Wind Rose



4TH YEAR
STUDIO V
AR415

Provincial Electricity Authority Headquarter
Bangkok, Thailand

PEAheadquarter

SKYSCRAPER

Concept

Concept: Infinity
Location: Chatujak, Bangkok, Thailand
Architectural style: Post-Modern
Structural system: steel, truss, concrete
Inspired: eletron's movement

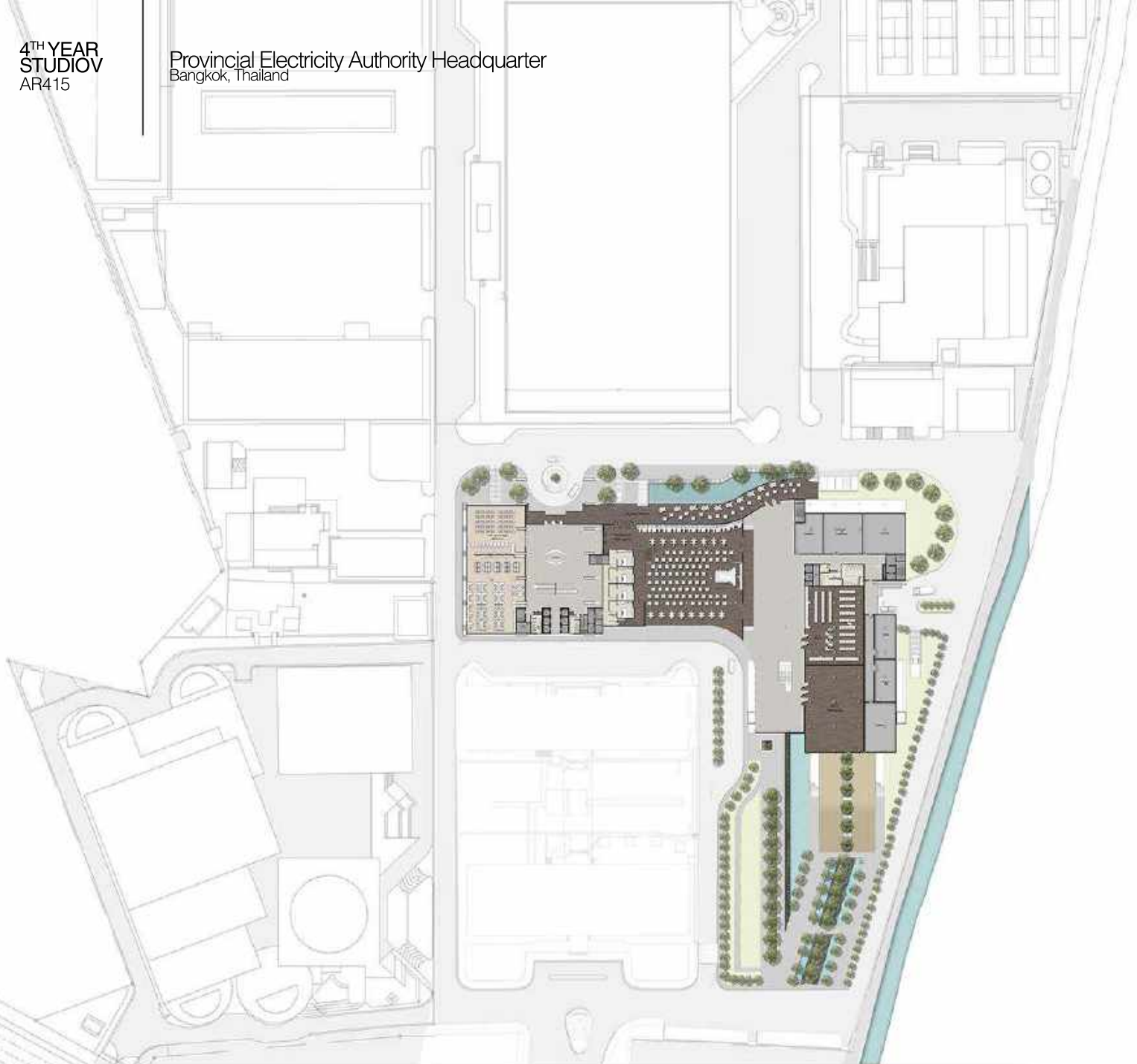


This project is to design a headquarters building for the Provincial Electricity Authority, a new symbol of the PEA which not only provide new facilities building but also represent the vision of the cooperation and to create a quality office space for all employee building is set to connect all building together.

The design of this new headquarters is divided into three zones: The high-rise tower, underground parking and widely cantilevering podium building.

Requirement for the new building consists of Head office and Administrative office located in high-rise building and multi-purpose ballroom, meeting room, retail, canteen, office and PEA service center which provide employee activities and recreation center such as fitness, table-tennis, etc located in 5 storey-podium.



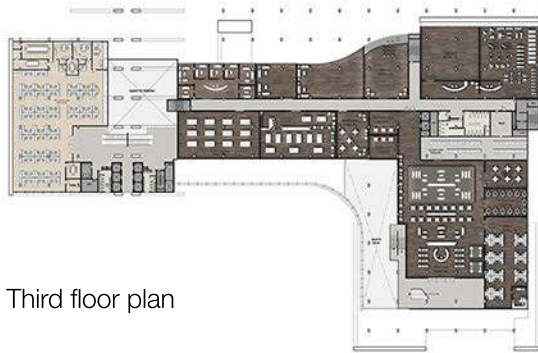




Underground floor plan



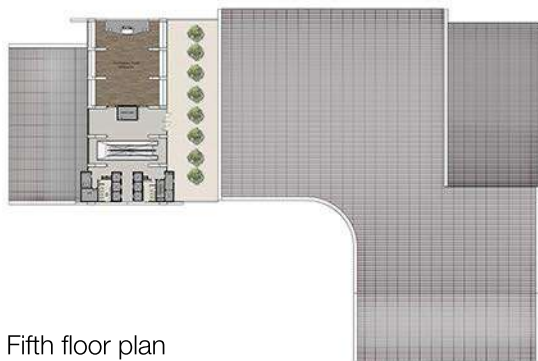
Second floor plan



Third floor plan



Forth floor plan

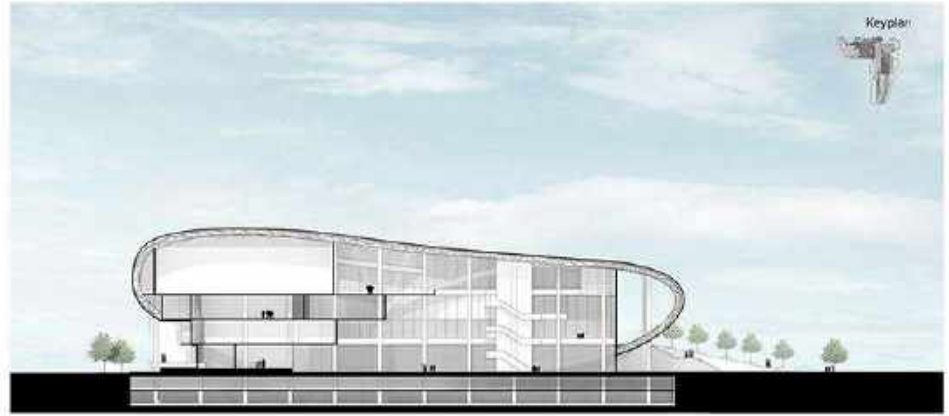


Fifth floor plan



Typical floor plan

Section
Final drawings



Elevation
Final drawings



South Elevation

West Elevation



North Elevation

East Elevation

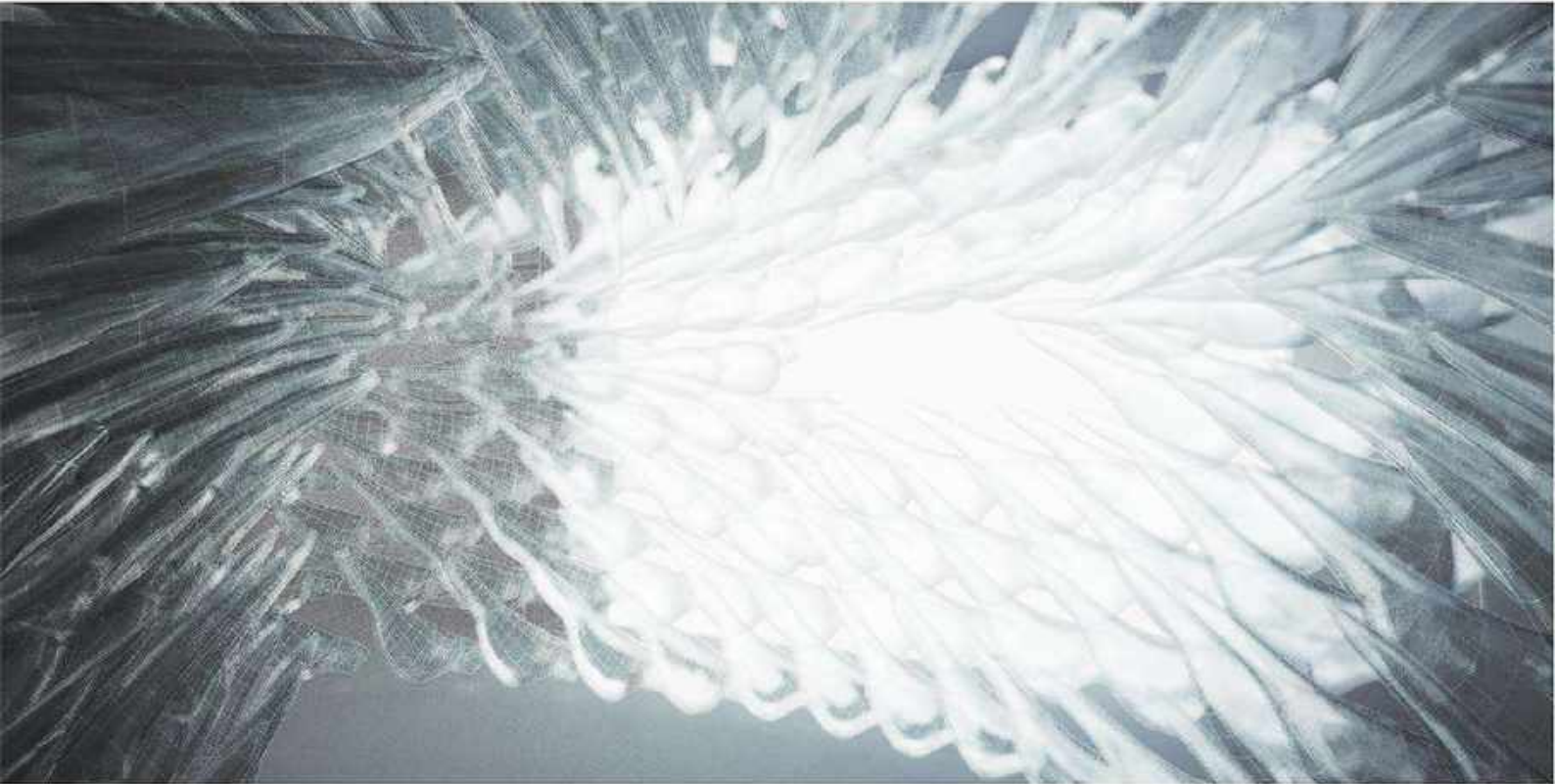
Hapnea

Design & fabrication of an architectural prop for
the BKK-based short film Hapnea

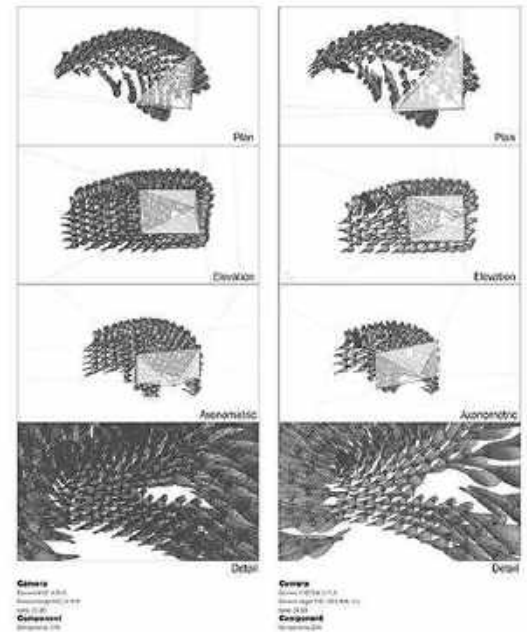
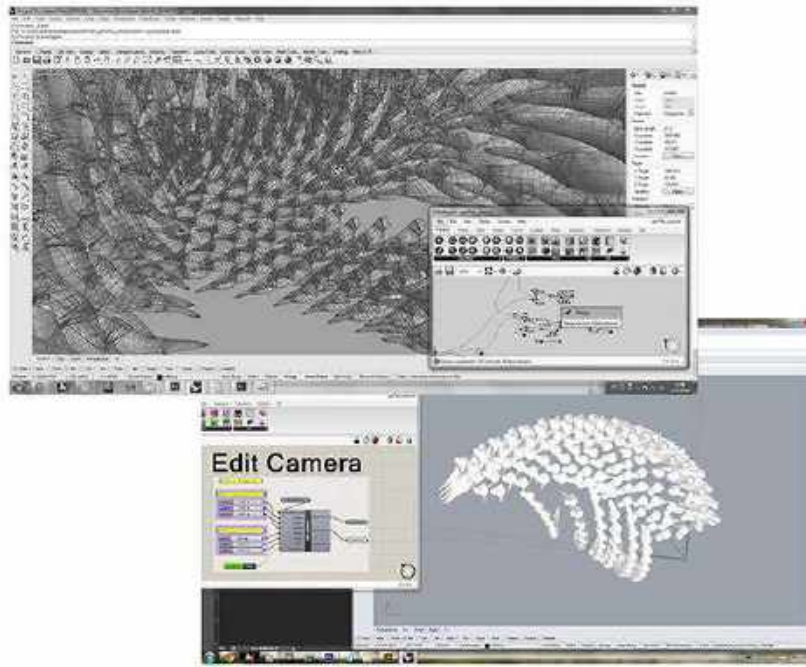
Team: Camille Lacadees & Samustpon Tanapant & Fablab Studio Thammasat University

Material: Glass, Mango wood

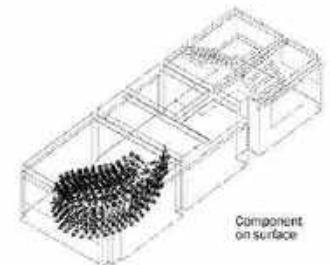
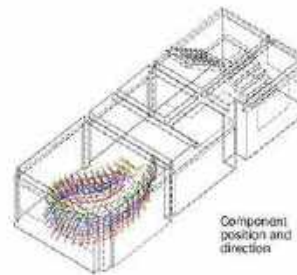
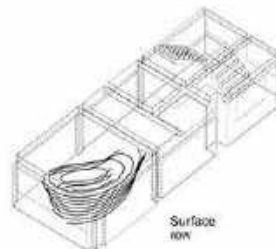
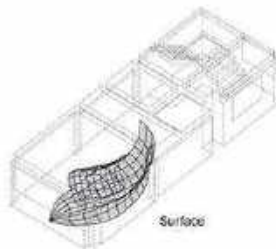
Software: Rhinoceros, Maya, Cut3D (CNC)



Design & fabrication of an architectural prop, the procedure behind this work involves design component for the installation and writing script that control the component and control the camera view, angle and lens. A surface is then created with a long narrow like a cave follow the story of the film and response to the condition of the site. The grasshopper script start with assign mesh component and surface and then the script populate the component of the surface, the script control the density and distance of the component reference from the camera view and position. The script also assigned as attraction point control direction of the component.



The surface created and divided in horizontal line and divide the position in the row by the density of the components according to the position, lens and angle of the camera and component direction and angle adjust by the direction of the surface, circulation and camera view.



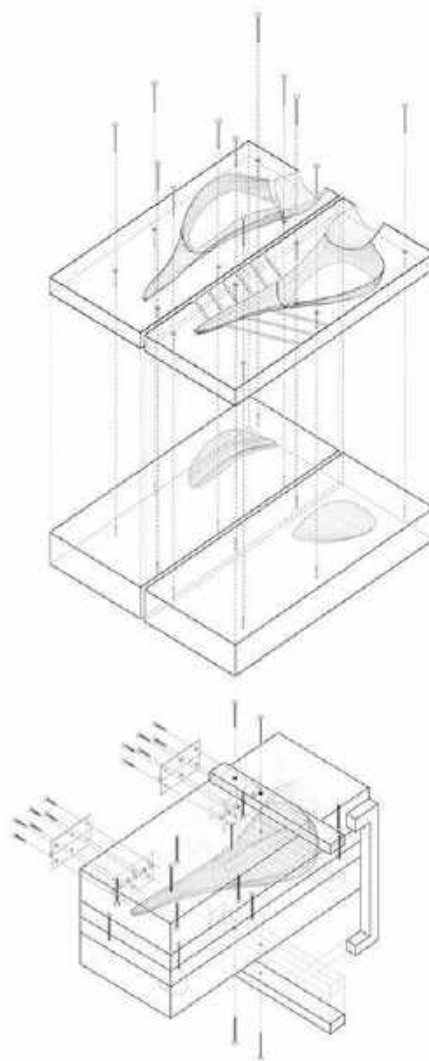
Hapnea

Design & fabrication of an architectural prop for the BKK-based short film Hapnea

Team: Camille Lacadees & Samustpon Tanapant & Fablab Studio Thammasat University

Material: Glass, Mango wood

Software: Rhinoceros, Maya, Cut3D (CNC)



MOLD FABRICATION

The procedure behind this work involves modeling and fabrication. The first step is to model the 3D component in computer, the component design inspired by bird nest. The mold of the component was generated with G-code for CNC machine to create mold from mango wood. The mold was divided into 4 pieces joint together with crew, hinges and air track for the air to escape while the glass is being blown.



Installation - start with planning the component and fix the position and design the structure that fix to the ceiling and use eyes bolt, a screw with a loop on one end and threads on the other end to attach cable to hang the components. Lump of clay has been use as a point cloud to represent the component position and after finish hanging all the cable the glass component were hang in instead of the lump of clay.

Siam Center Window Display contest 2011

Once upon a Dream, 1st runner up

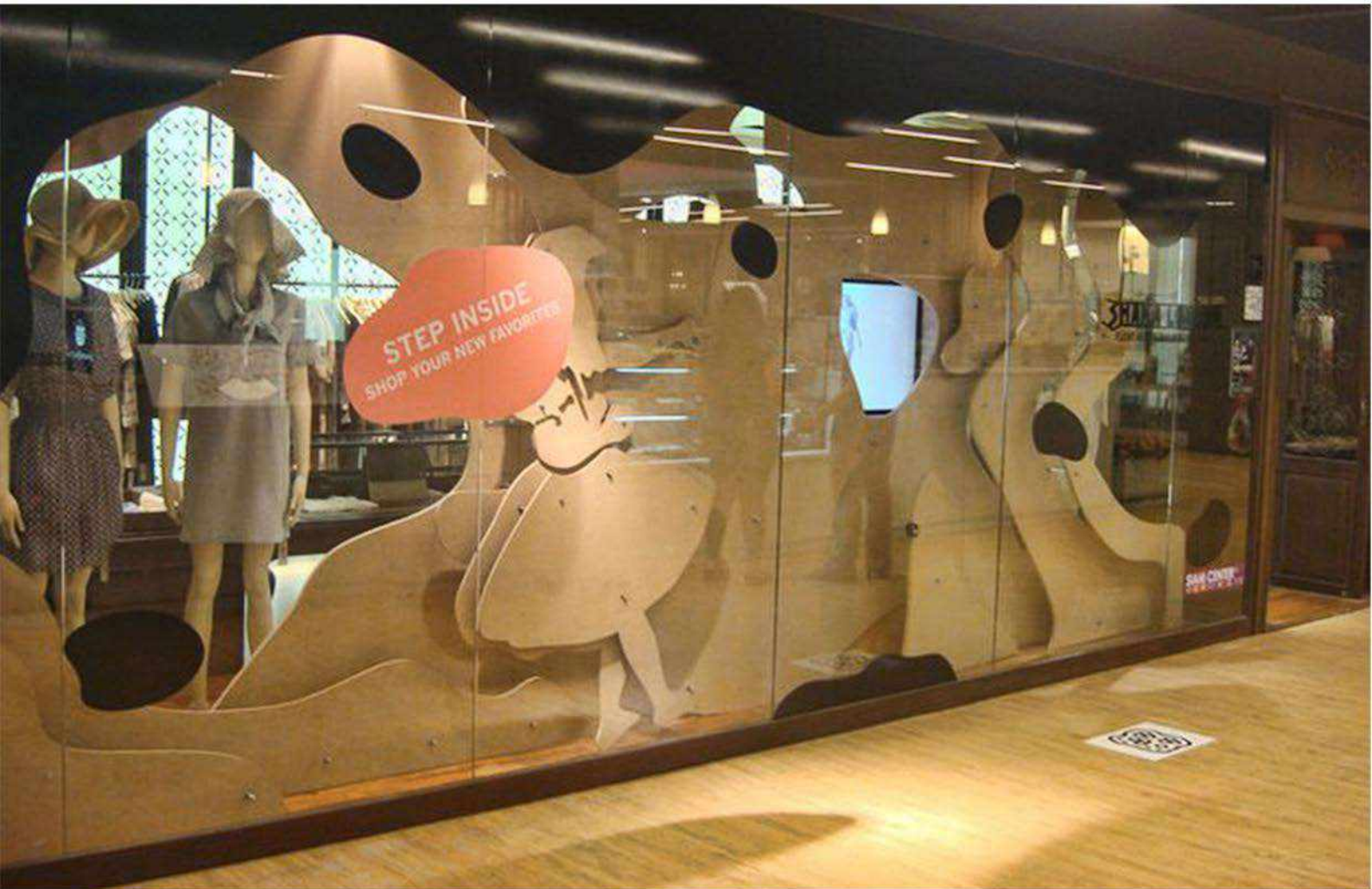
Team: Supinda Bannapob, Nuttapol Techopitch, Phakorn Phattrapornpisit

Brand: Shaka London

Material: Medium-density fibreboard (MDF)

Joint: Threaded Bars bolt

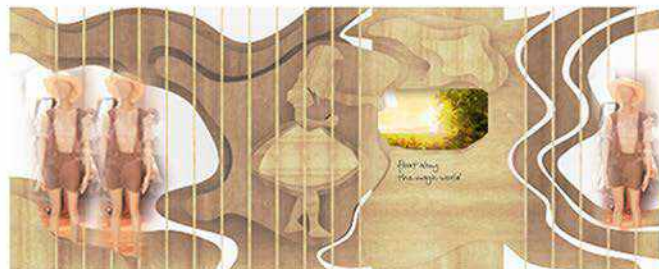
Software: Rhinoceros, Adobe Illustrator, Adobe Photoshop, Processing



SHAKA
LONDON



The task is to design a window display for the store in Siam Center under the given budget, This window display was created for Shaka London store, concept of the display inspired from the concept of Shaka London's collection. The display made of Medium-density fibreboard cutting by CNC router, design using Rhinoceros and using Processing software to program and create a window that provided passers-by with an interactive experience that allowed them to see the collection lookbook on the tv screen.



Front Elevation

PAST
EXPERIENCE

Kuala Lumpur Container Art gallery Project
Render work





Kuala Lumpur Container Art gallery Project for Site-Specific Company Limited

Information

Team: Chutayaves Sinthuphan, Yanyadech Phornphong,
Nuttapol Techopitch, Supinda Bannapob

PAST
EXPERIENCE

InteriorWork | Bathroom Renovation
Bangkok, Thailand

Bathroom Renovation

Interior Work

Location: Bangkok, Thailand

Software: Rhinoceros, Adobe Illustrator, Adobe Photoshop, Processing



FINAL

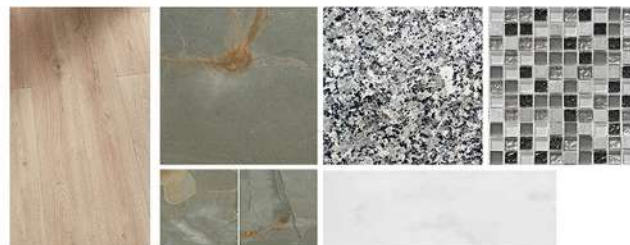


OPTIONS



BEFORE

WALL AND TILES



PAST
EXPERIENCE

InteriorWork | New Bedroom Design
Bangkok, Thailand

New Bedroom Design

Interior Work

Location: Bangkok, Thailand

Software: Rhinoceros, Adobe Illustrator, Adobe Photoshop, Processing



SLIDE N GO DOLLHOUSE

Compact dollhouse design



Design your own space with this unique compact dollhouse! The dollhouse is portable for carrying around and fully assembled. It is made up of 3 units which can be arranged in various ways by sliding and setting. This dolls' house is made from natural rubberwood. It measures 24.5cm x 36cm x 32.4cm when compartments are slid into one.

This dollhouse got its seal of approval at the meticulously curated Design Store of MoMA NY (Museum of Metropolitan Arts New York) shortly after released.



The project starts from a simple concept “compact dollhouse” the design of the dollhouse inspired from wooden drawer and basket that can insert drawer to extend space and blend the concept with simple and modern scandinavian style to design customisable dollhouse with three separated unit that can be laid out in a variety of ways before sliding them into one portable unit that can be easily picked up, stored and carried around.

This solid wood dolls' house comes complete with a chandelier, two sliding doors and furniture sets for a bedroom, bathroom, kitchen, dining room and living room, made from a mix of natural rubber wood and Planwood.

Playing with this wooden dolls' house helps to teach children about family roles, activities and daily routines. This adjustable dollhouse inspires creative play and is built to last.

ART PLAY TABLE (NOT RELEASED)

Furniture design



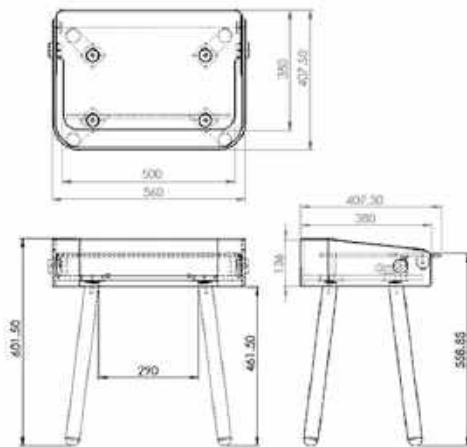
This table and chair set is perfect for young children who need somewhere to do crafts, learn to draw, learn to write and even have meals. It's designed with curving contours. The table has two handy compartments for stationery, pens, crayons and craft material and, like a blackboard, can be drawn on with chalk. The desktop can also be adjusted to different angles for reading and drawing. Children should not use a flat desktop surface for reading, writing and drawing. It is essential for proper spinal position on young bodies.



Task is to design new study table and chair set will look fantastic in any playroom and is highly functional made from solid rubberwood but the tabletop is made from Planwood, a totally eco product made from recycled rubberwood sawdust.

The project starts from a concept "Table+Art table", design of the table need to look modern and simple but need to make it feasible financially and functionally suitable for children 4yrs+.

The table designed with bended plywood as the main structure of the table which not only give nice curve outline and modern look for the table but also make the design financially feasible combine with adjustable planwood desktop and new designed fitting for table lift mechanism with two compartments in front and back.



Prototype



Sustainable Play



New PlanToys's 2m Shelf



Sustainable Play



New PlanToys's Shelf



Sustainable Play

Acrobat Display

Display for Acrobat series collection
on PlanToys's standard shelf





Sustainable Play



PlanToys in Toy“R”us HK design



Sustainable Play



PlanToys's booth in Koln Toy Fair 2017



Sustainable Play



PlanToys's booth in Nuremberg International Toy Fair 2018

