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Personal Information

name:	Natthee Anuyotha
gender:	Male
date of birth:	12 July 1986
email:	natthee.a@gmail.com
telephone:	+66-89-6920416

Content

Study Project

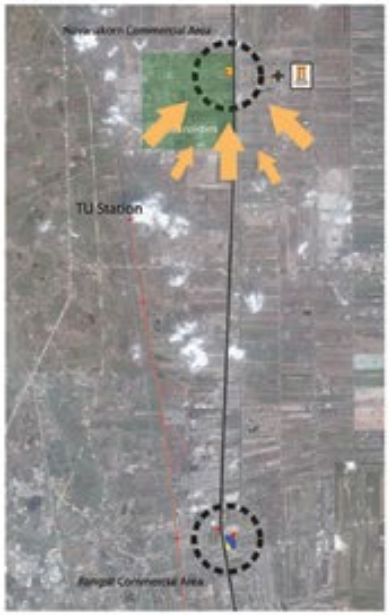
TU Station Masterplan
Red line Railway System, Rangsit


Site
TU Rangsit Station, Pathumthani
Red Line Rail System
Vibhavadi-Rangsit Rd.
Site:
TU Rangsit Station
500 m.
Thammasat University
Rangsit Campus
KhlongLuang Rd.

1

Before

After



- Big Box Supermarket
- DepartmentStore
- Entertainment
- IT Center

Number of Peoples in Community Area

	Persons
Navanakorn	96,945
AIT	2,000+
TSP	3,000+
Thammasat	37,054
Bangkok U	19,206
Thammakai	400,000

otp Forecast number of Passengers per Day in RedLine

	2012	2022	2032	2042
Passenger per Day	123,800	245,131	356,108	393,364

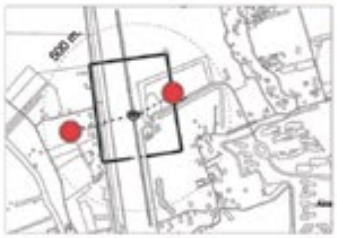
otp Forecast number of Passengers per Day in TU Station

	2012	2022	2032	2042
Passenger per Day	15,000	28,000	38,500	42,600

For the TOD Design should be base on 7 step to design the masterplan

1) Determine type of place
2) Locate the commercial center
3) Plan the pattern of district
4) Adjust to existing feature
5) Structure the public realm
6) Connect the center
7) Infill between the main thoroughfares

2



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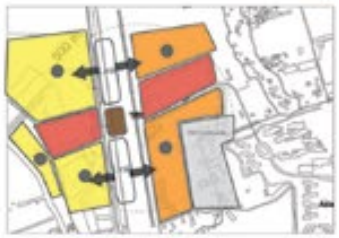

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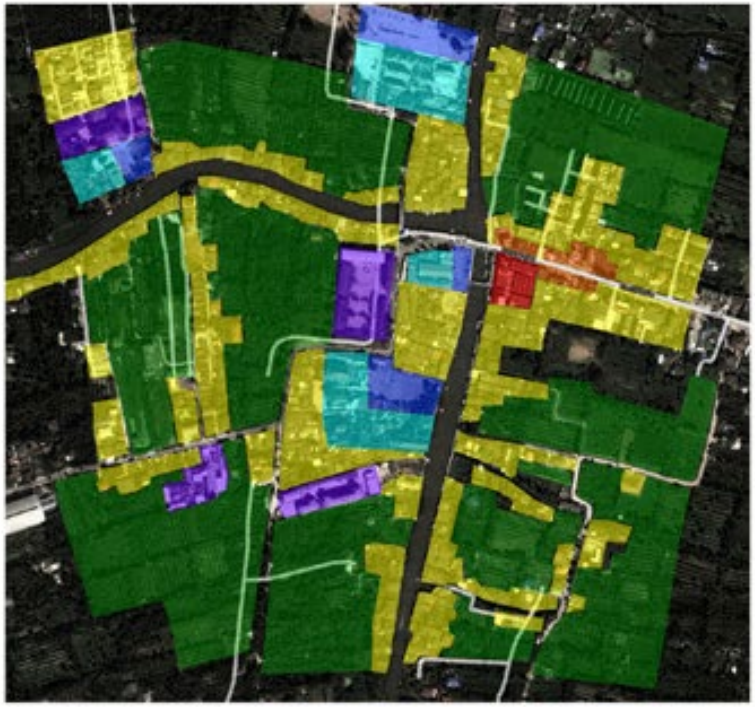
5

6

7











Residential Wat Talard

BangMoung Community
Klong Ormnon, Nonthaburi









Residential Wat Talard

Klong Kanark Community
Angthong Province

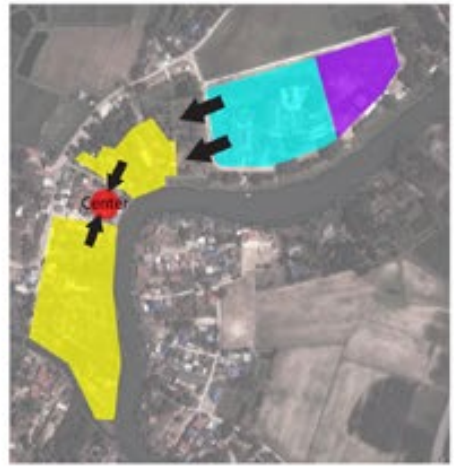
Thai Urbanism

Element of Thai Urbanism



Thai House Temple Talard

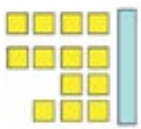
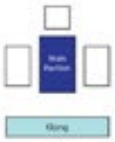
How to Locate the Center



From Residential, they use some open space to make Talard. and then they develop to commercial center.

Wat and School are come after they have community. they use land next form the community to Build Temple.

Pattern of Thai Urbanism


Residential Wat Talard

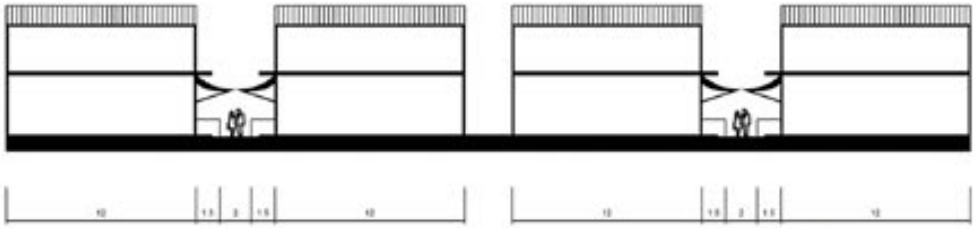
Master Plan


BUILDING TYPE
Single house
Town house
Shop House (mix-use)
Retail shop (commercial)
Apartment
Office
Theater
Parking lot
Green area

Masterplan Detail

- *Talard Detail*
- *Thai Urban Detail*

1



2

3

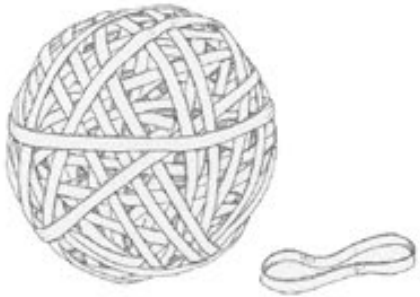
Competition

Elasticity
eVolo Competition 2012

Project Description

Design Concept

Earthquakes had destroyed buildings, taking lives and costing huge amounts in repair. The development of earthquake architecture hopes to counter this. Dwellers design their houses to handle earthquake effects with more stable and flexible structure made by steels. Topped with rubbers and plastics, those houses were built with few doors and windows to prevent being injured by falling building parts. Does this spark your ideas?



Elastic

The earthquake-resistant building is able to withstand earthquake forces if the structure has elastic support system. The construction, which is connected wings to the main structure with rubber, will not deform or collapse during earthquakes. It allows the building to move independently.

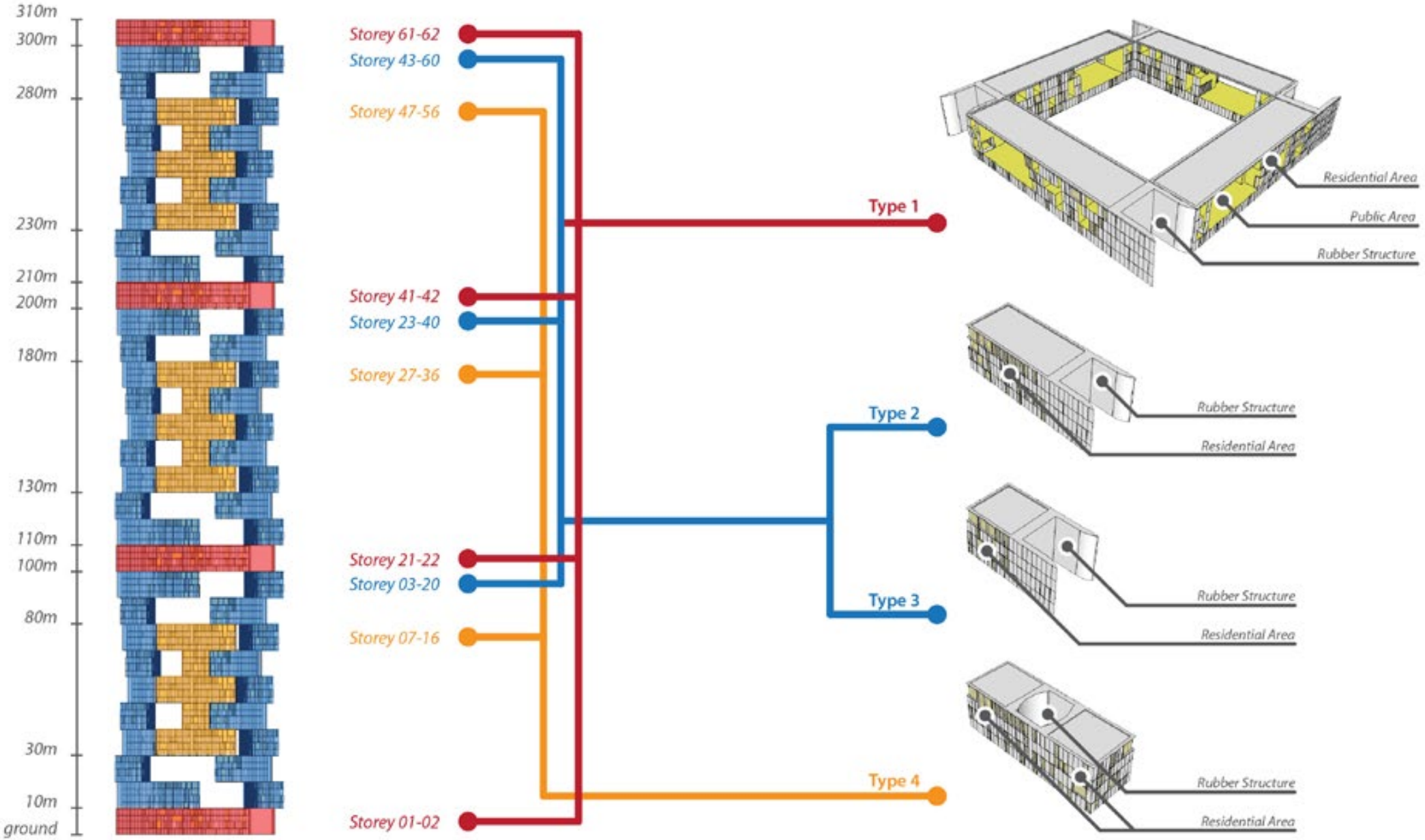
Material

Metal rubber is a broad, informal name for several conductive plastic polymers with metal ions produced by NanoSonic, Inc, in cooperation withVirginia Tech. This self-assembling nanocomposite is ultra flexible and durable to high and low pressures, temperatures, tensions, most chemical reactions, and retains all of its physical and chemical properties upon being returned to aground state. Metal rubber can be used to build the earthquake-resistant building.

Space Algorithm

Space Algorithm and Parametric design

Space is divided into four patterns of vertical and horizontal connecting. Residential area is a big part, public area is addition.

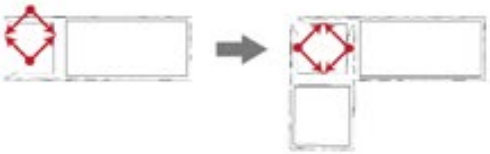


Core Algorithm and Parametric design

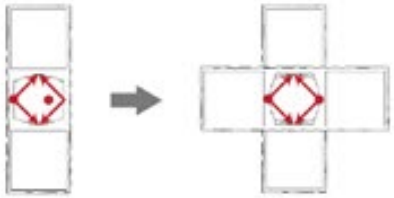
The core of building is divided according to the structure used for the rubber at the 4 corners making 4 core joints with the same position on the structure of the building. This structure is built by stacked unit, which is putting up a vertically.

Rubber mounting at the core of structure

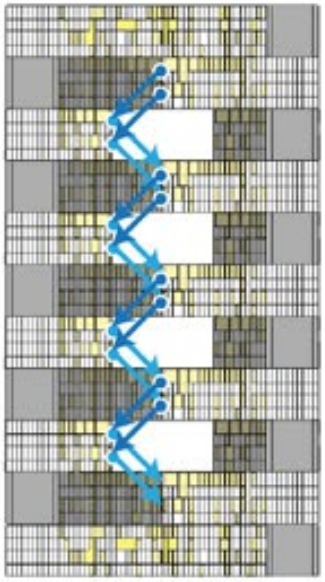
The structure is fixed together with the layers of unit by the rubber in vertical direction.



Rubber mounting at the corner of structure



Rubber mounting at the middle of structure



Rubber mounting outside the structure of the building

Rubber mounting outside the structure of the building

To seize the layers of unit with the outside structure of building, they are seized across from one storey to another storey. This technique will tighten between units and helps in further reducing the seismic response of the building.

continue...

isometric 1

isometric 2

isometric 3

isometric 4

isometric 5

isometric 6

isometric 7

isometric 8

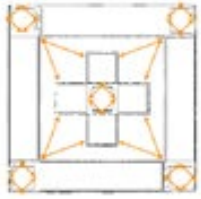
plan 1

plan 2

plan 3

plan 4

plan 5



plan 6

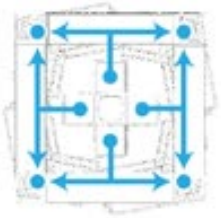
plan 7

plan 8

Earthquake Resistant System

Securities and Evacuation system

Securities and Evacuation System is divided into 2 types by levels of earthquake's vibration which are slight earthquake and severe earthquake. In case of slight earthquake residents can migrate to the safest area, which is the central unit stretching with the building, to escape the vibration around the building. If the incident turns to be severe earthquake, residents have to evacuate from the building immediately by the elevator located at the four cores of the building structure.



In case of the slight - moderate earthquake

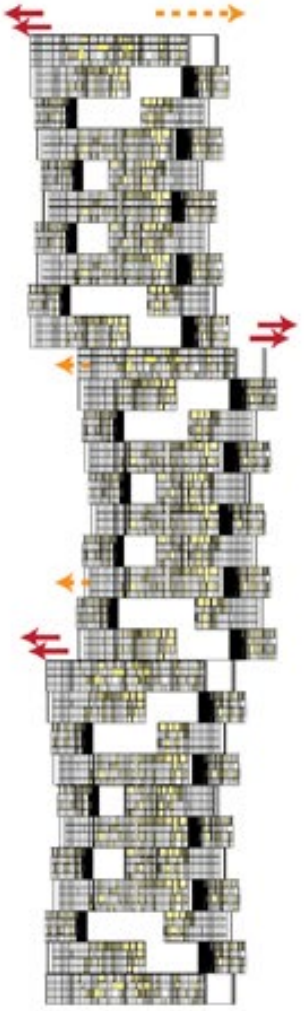
Residents can migrate to the safest area, which is the central unit stretching with the building, to escape the vibration around the building.

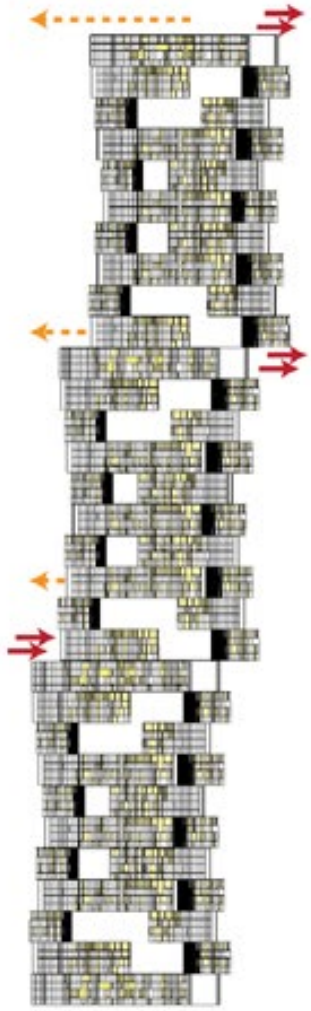
In case of the severe earthquake

Residents have to evacuate from the building immediately by the elevator located at the four cores of the building structure.

Special issues

This guidance is prepared for forecasting the seismic incident or any forces that could affect to building in the future.





In case of the slight earthquake

The building will be stable without vibration, due to the flexibility of the rubber curb. Few forces are transferred to the building, because the building will absorb the vibration energy.

In case of the moderate earthquake

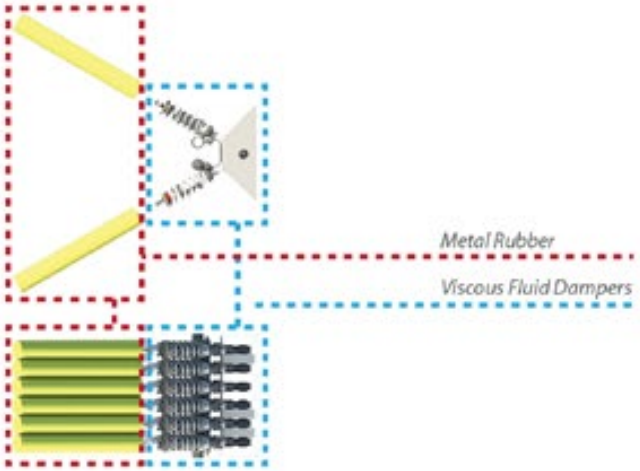
The vibration will occur 3 periods, because the building structure is divided into 3 parts in vertical direction.

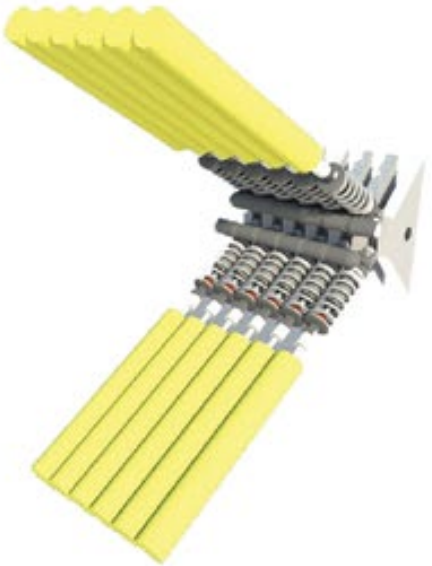
In case of the severe earthquake

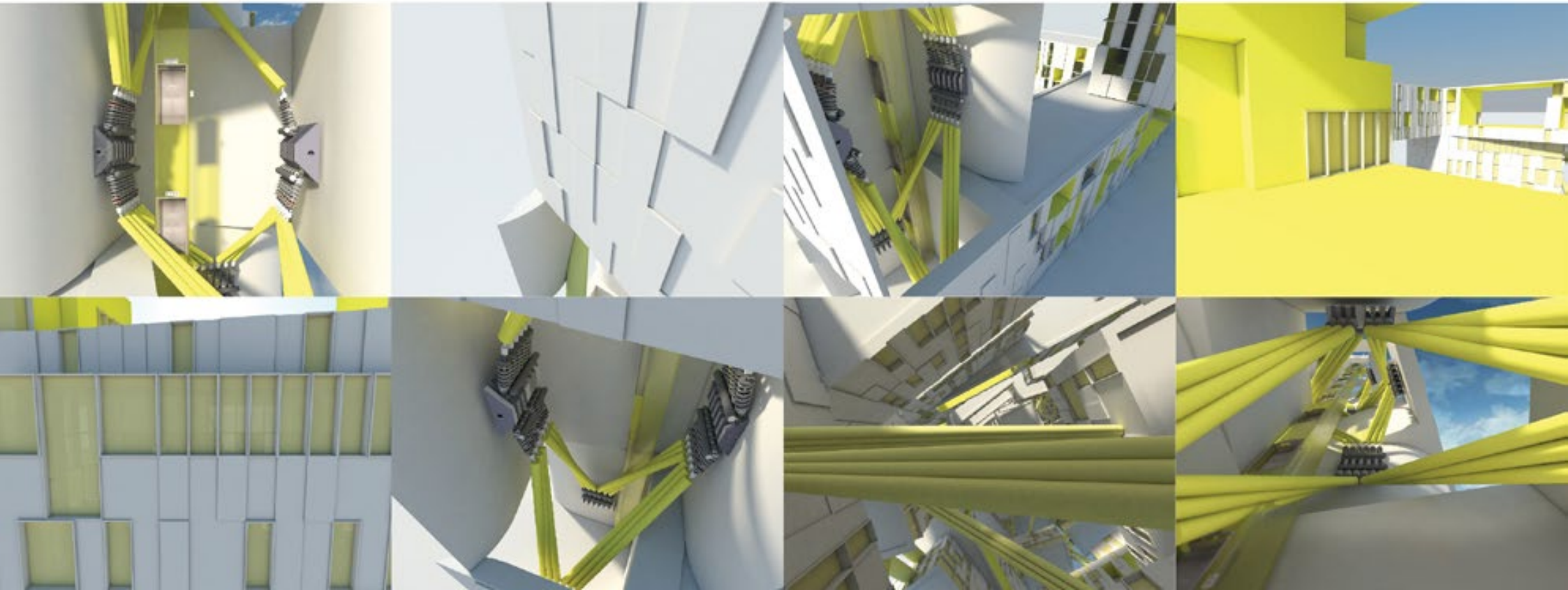
The whole building will be shaken by the vibrations.

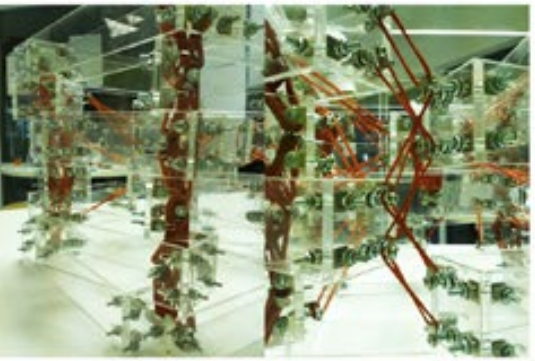
Expansion Joint

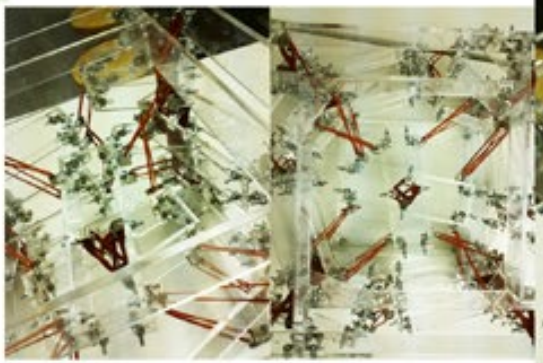
The connecting points of the building structure are made by rubber, assembling with damper at the base building. This helps in further reducing the seismic response of the building.

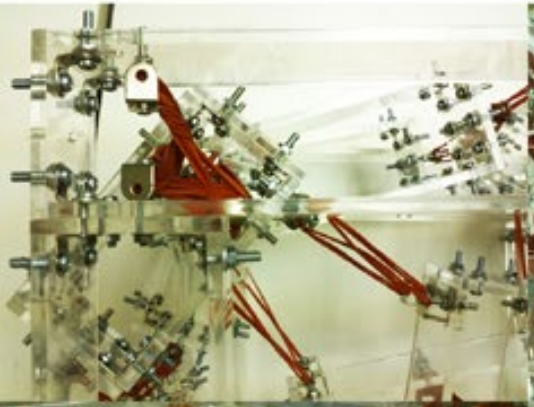


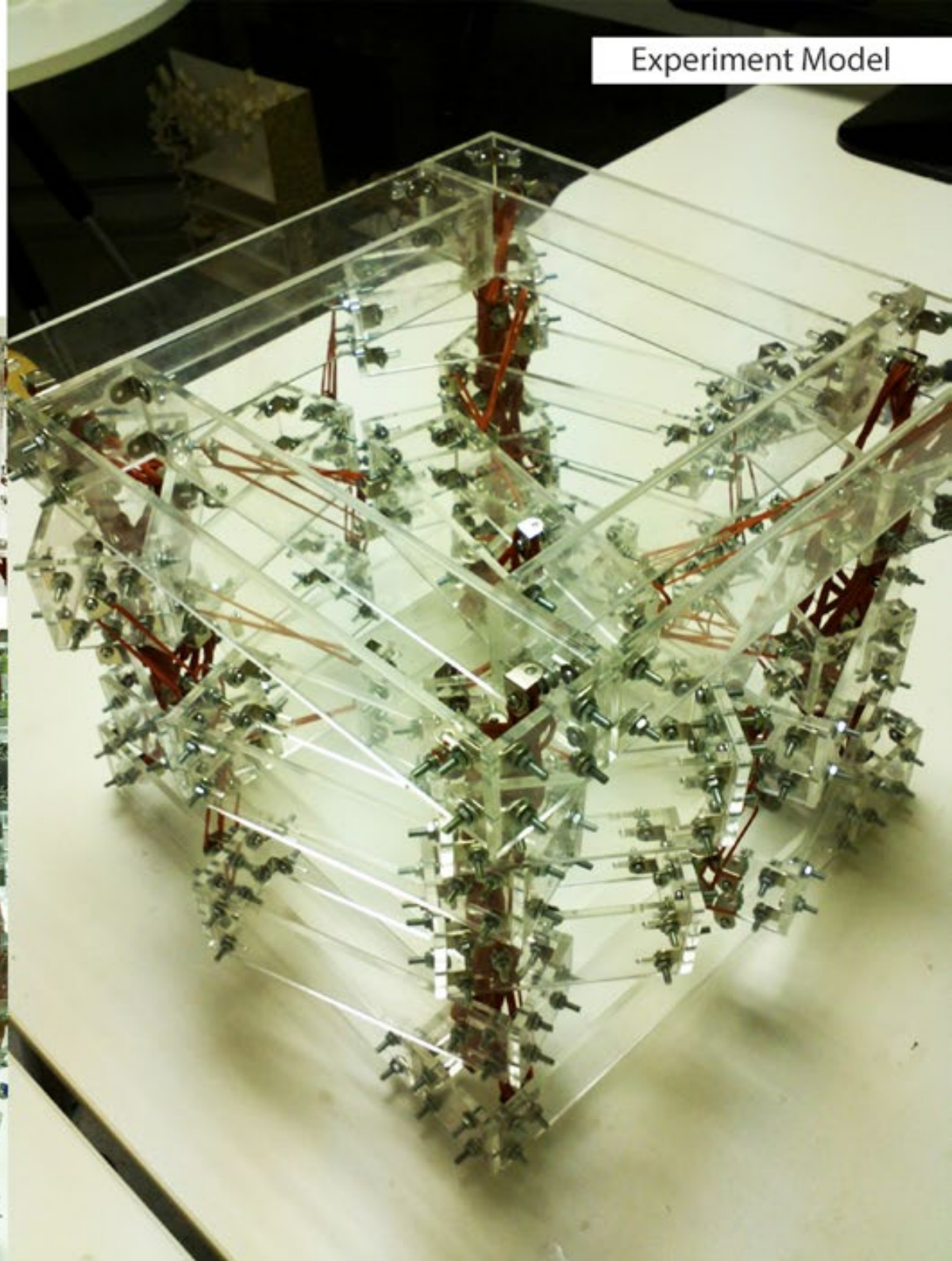




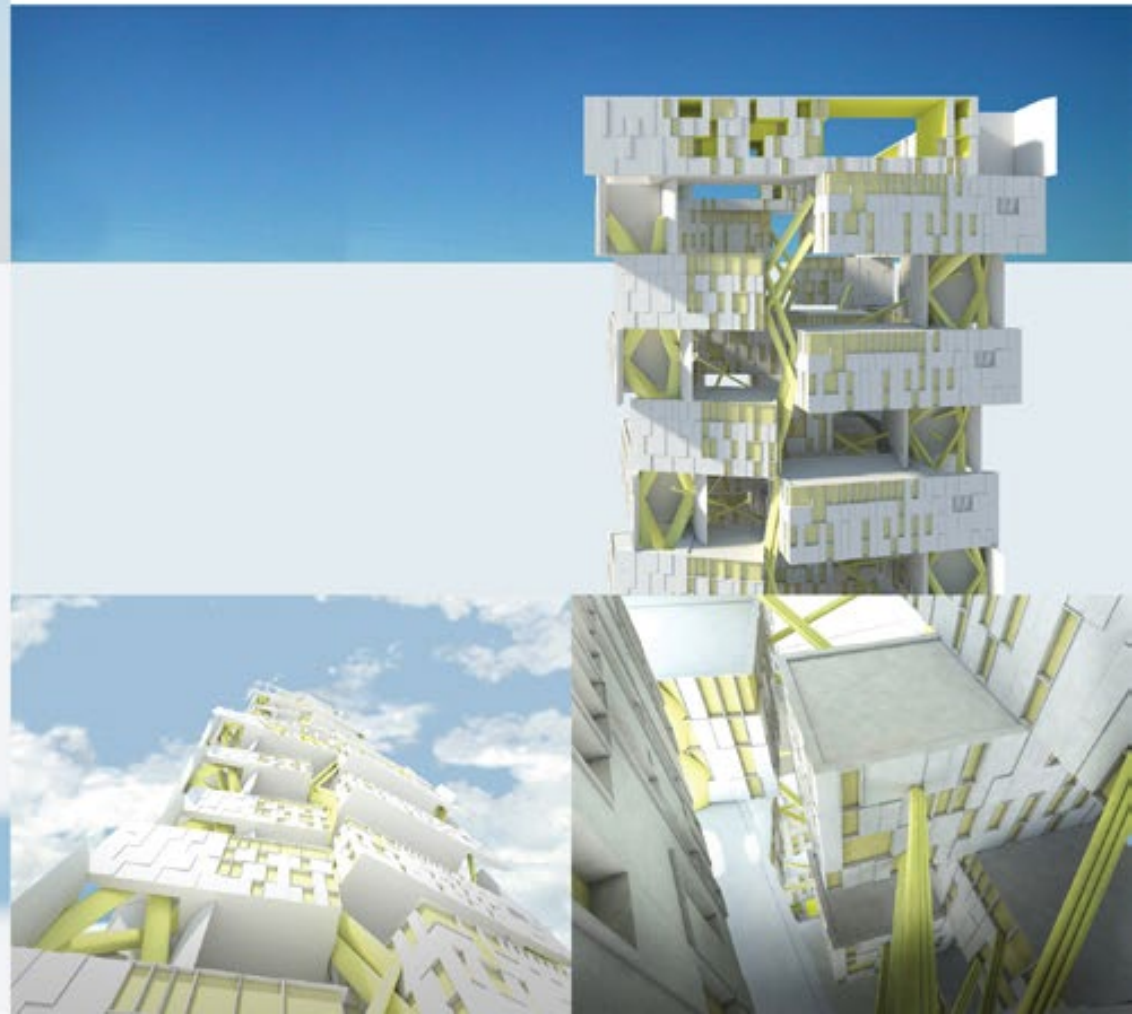








Experiment Model




Perspective

eVolo

2012

SKYSCRAPER COMPETITION

Project Description

eVolo is pleased to invite students, architects, engineers, designers, and artists from around the globe to take part in the eVolo 2012 Skyscraper Competition. Established in 2006, the annual Skyscraper Competition is one of the world's most prestigious awards for high-rise architecture. It recognizes outstanding ideas that redefine skyscraper design through the implementation of novel technologies, materials, programs, aesthetics, and spatial organizations along with studies on globalization, flexibility, adaptability, and the digital revolution. It is a forum that examines the relationship between the skyscraper and the natural world, the skyscraper and the community, and the skyscraper and the city.

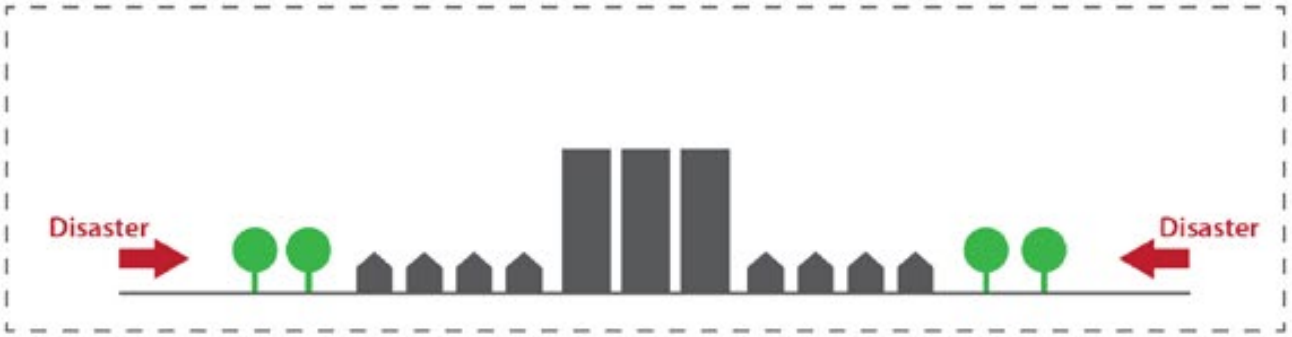
The participants should take into consideration the advances in technology, the exploration of sustainable systems, and the establishment of new urban and architectural methods to solve economic, social, and cultural problems of the contemporary city including the scarcity of natural resources and infrastructure and the exponential increase of inhabitants, pollution, economic division, and unplanned urban sprawl.

Design Concept

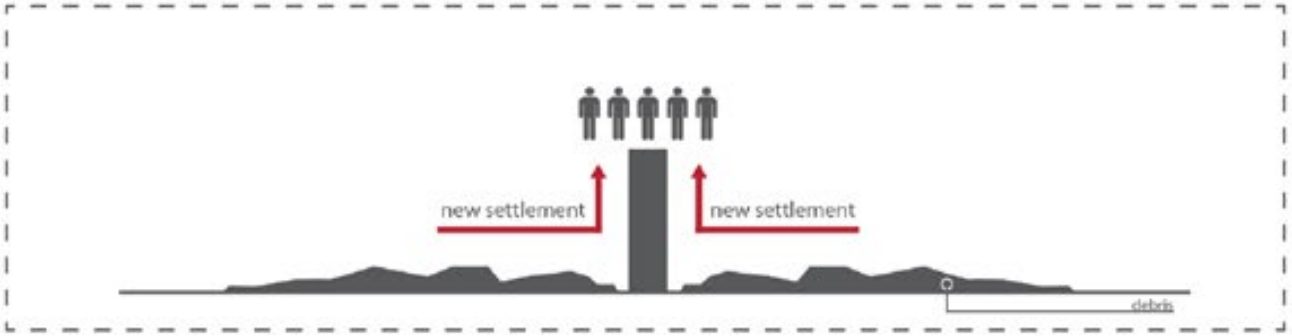
In the present, the natural disasters has occurred around the world such as earthquake, flood and Tsunami. All of these things affect the habitats and likely to be more violent than ever.

The new building called "Yggdrasil" has formed to be new settlement for the humanity that supports the impact of natural disasters and also changes the force from disasters to be secondary energy into the building.

By using metal rubber, a nanotechnology material, that use in the aerospace building industrial, as a main building material will make the building's core and structure highly flexible and durable to pressure, temperature, and tension. Normally, the higher the building gets the stronger the wind load it'll have. But for the Elasticity, when faces the wind, instead of trying to resist it, the flexibilities of the structure will allow the building to sway slightly, like trees branches.



In the present, the world has changing and more disasters.



The human has to move their settlement in the vertical line.

The ground below recovers quickly and become to be green area for the building.

• In the present, the world has changing and more disasters.

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Normally, the higher the building gets the stronger the wind load it'll have. But for the Yggdrasil, when faces the wind, instead of trying to resist it, the flexibilities of the structure will allow the building to sway slightly, like trees branches.

• The structure that makes from rubber, has stable, movement and flexible.

1067 02

- Joints connect with each other by crossing between floor and floor, it is the main structure of the building.

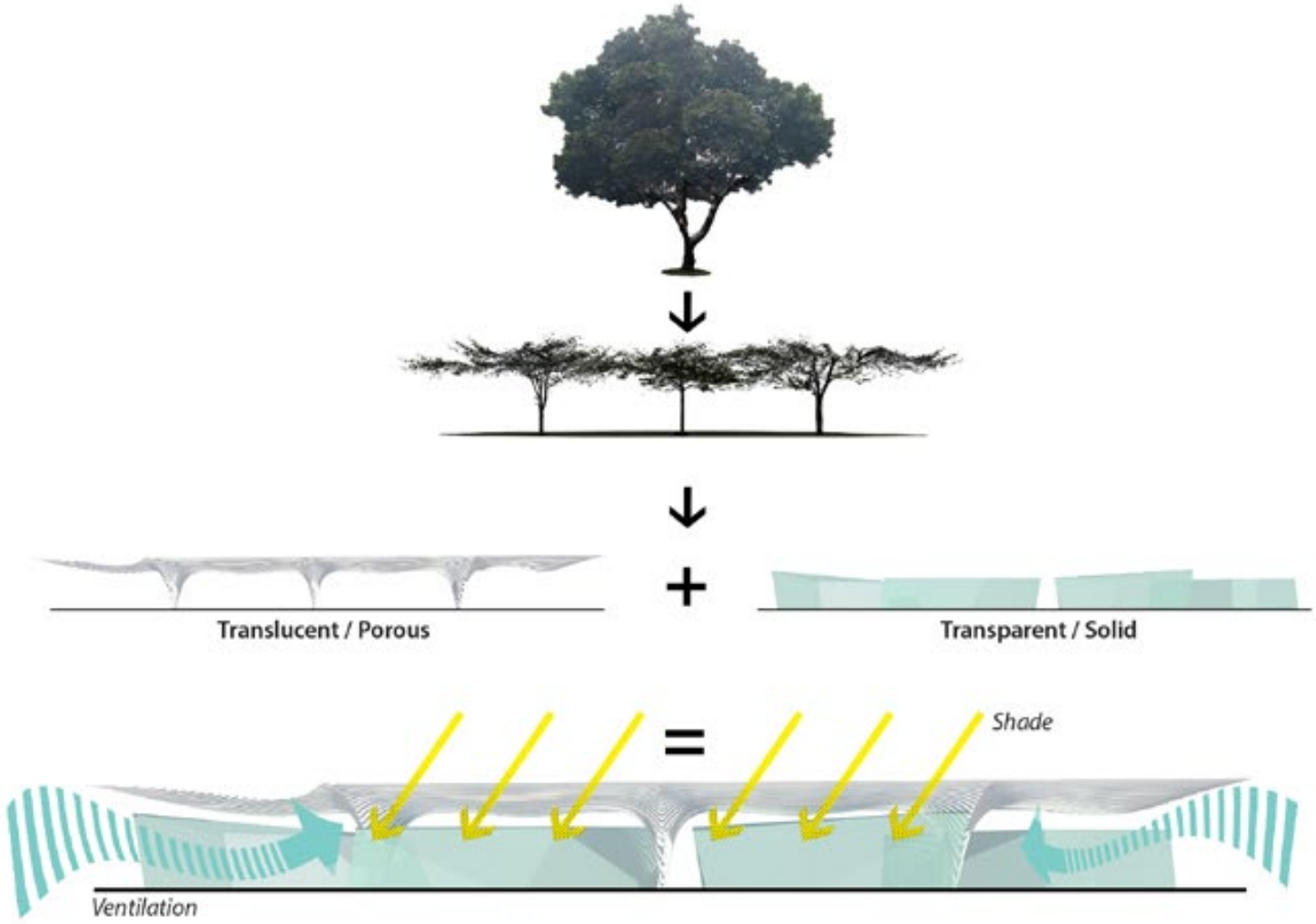
- This joints can generate secondary energy from the human's activities, who live in the building, and the force of natural disasters such as earthquake, flood and tsunami.
- The algorithm for connections in vertical axis.

Work Experience

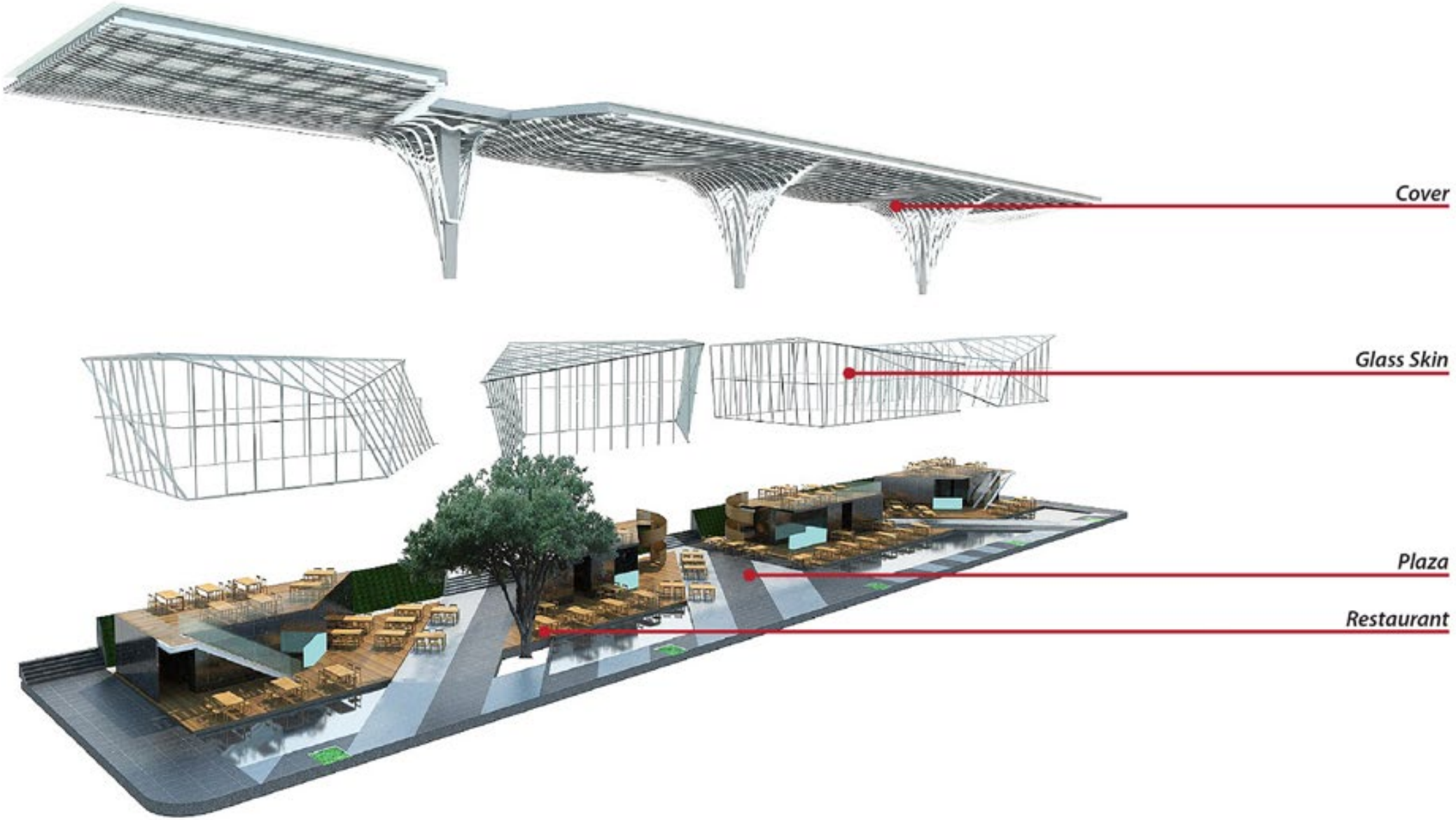
Glass House @ Sindhorn *(Office AT)*
Wireless Rd., Pathum Wan, Bangkok

Design Concept

Crystal
Transparant
Solid
Enclose



Site | Program | Separate | View & Wind | Shade | LIght


Cover
Glass Skin
Plaza
Restaurant


STARBUCKS COFFEE


STARBUCK


USE OVERPASS

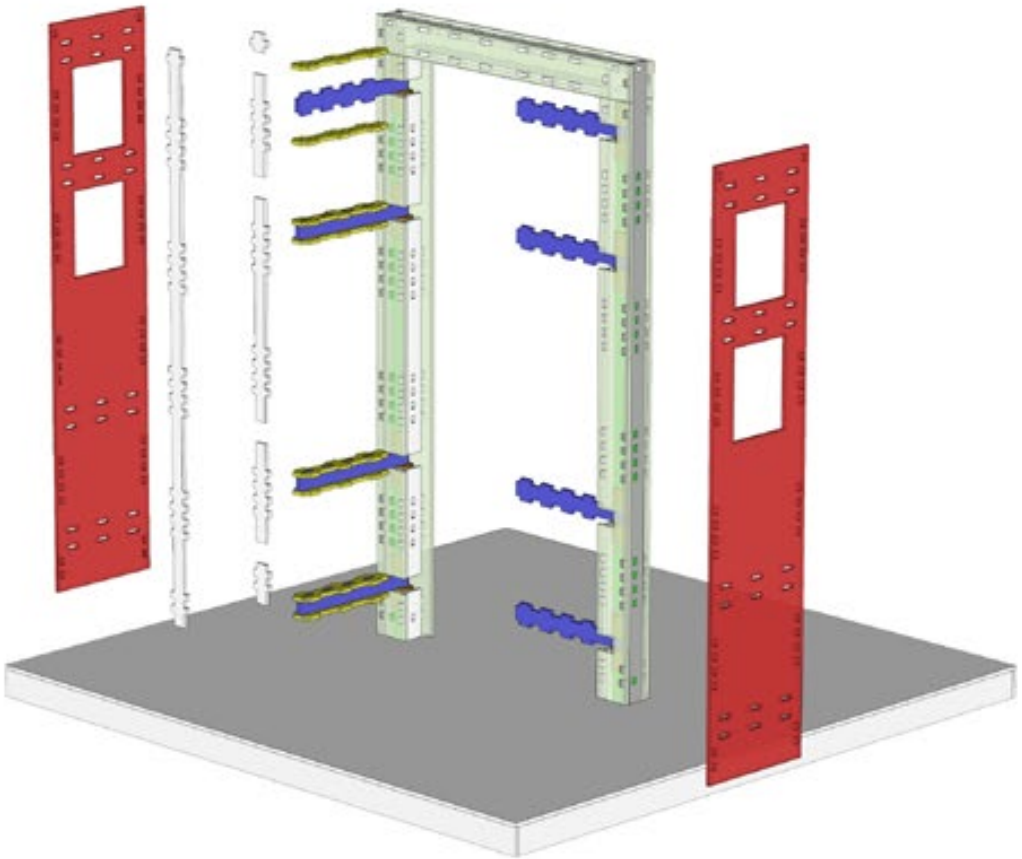
Work Experience

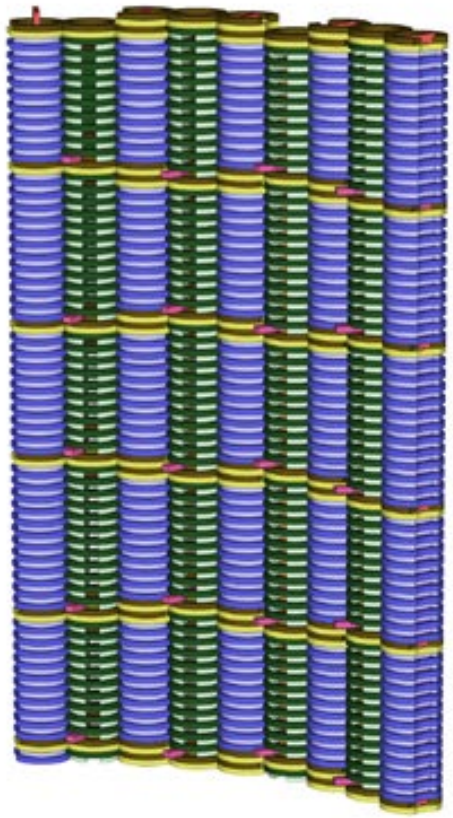
ASA Dwelling Element *(TADAH)*
ASA Expo 2017

Design Concept

Dwelling Elements

Based on Larry Sass's "Instant House" (2004) study to reduce construction concerns by using Digital Technology to send files to "Print" at the destination by laser cutter. From this idea TADAH has developed with emphasis on construction details. We use 15 mm plywood as material. Send the file to the CNC machine and assembly parts at the work site. Without the use of glue or nail.





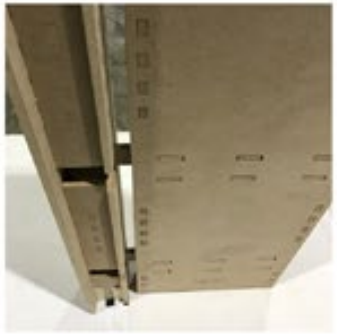
TADAH Door

We design the door by focus on pivot points to avoid finished hinges. And become to the series of wood pivots and joints in the door.

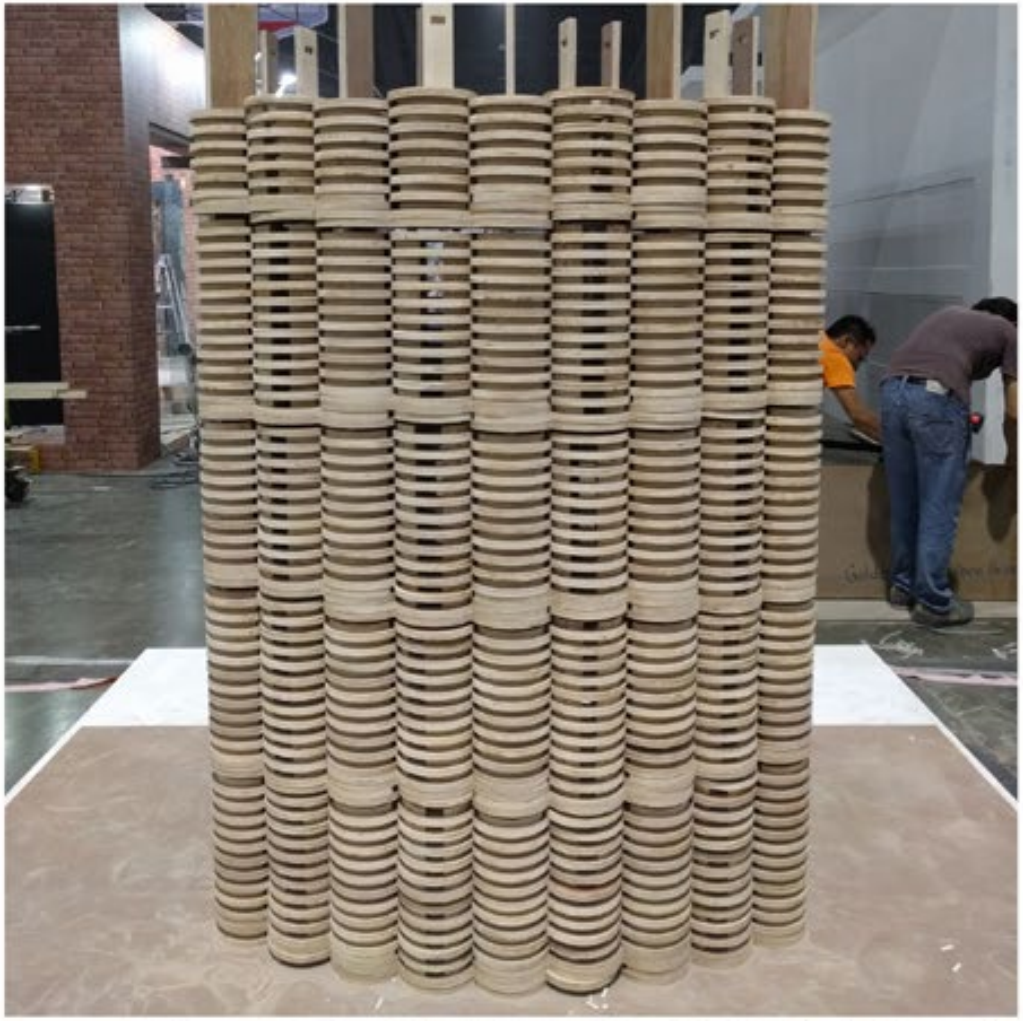
TADAH Wall

We designed the walls to be ventilation. It has internal air to prevent heat from outside. And control the airflow by mechanical but remain privacy space.

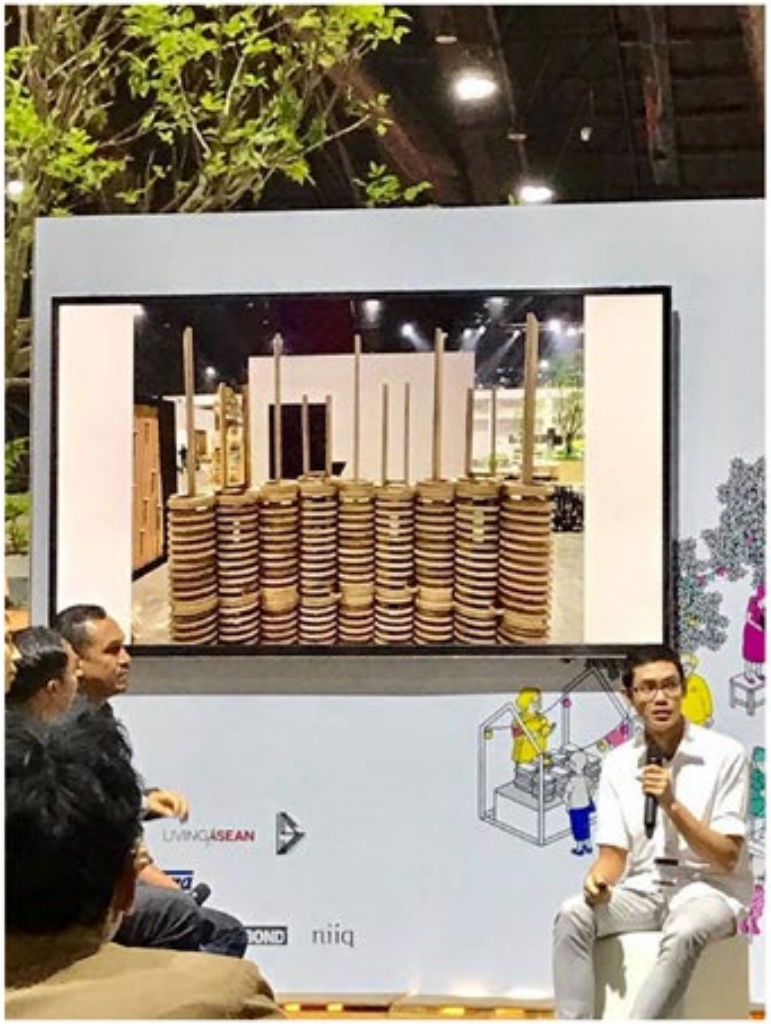
Booth Setup



TADAH Door



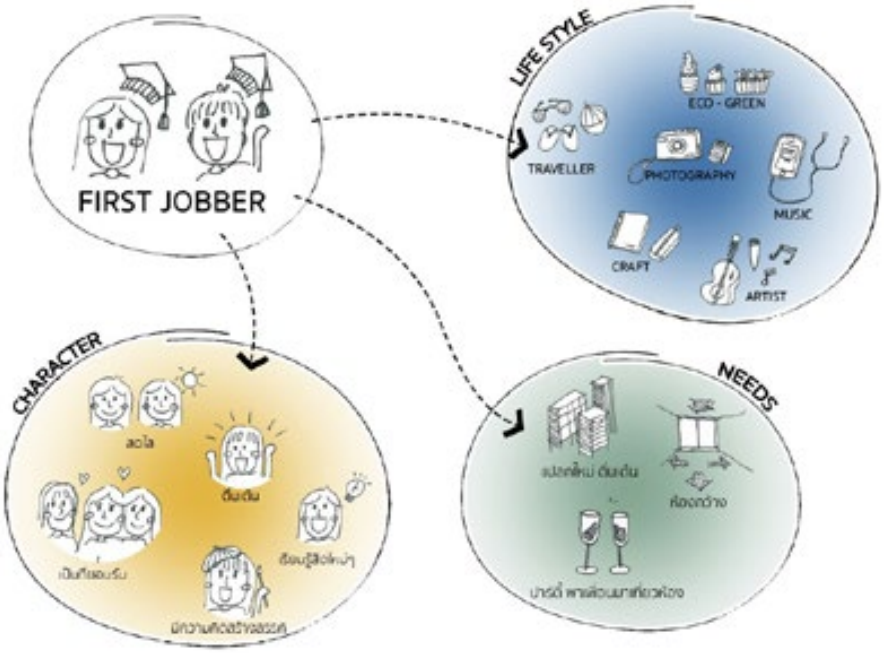
TADAH Wall


LIVING@SEAN
niiq

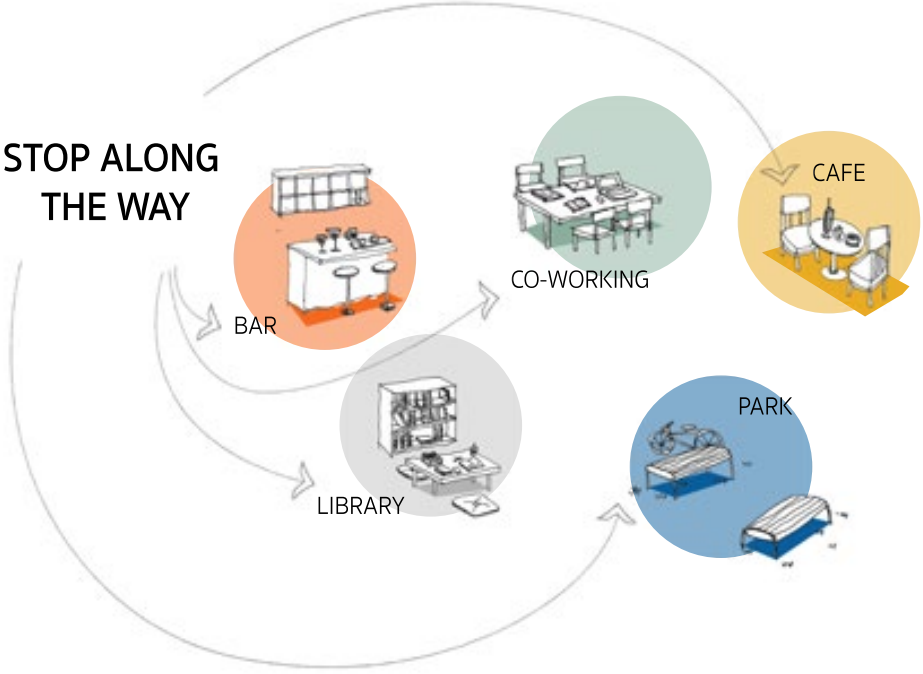
Work Experience

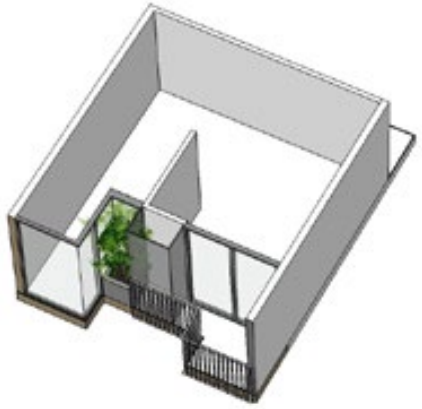
GEO Ladprao *(TADAH)*
Chatuchak, Bangkok

Design Concept



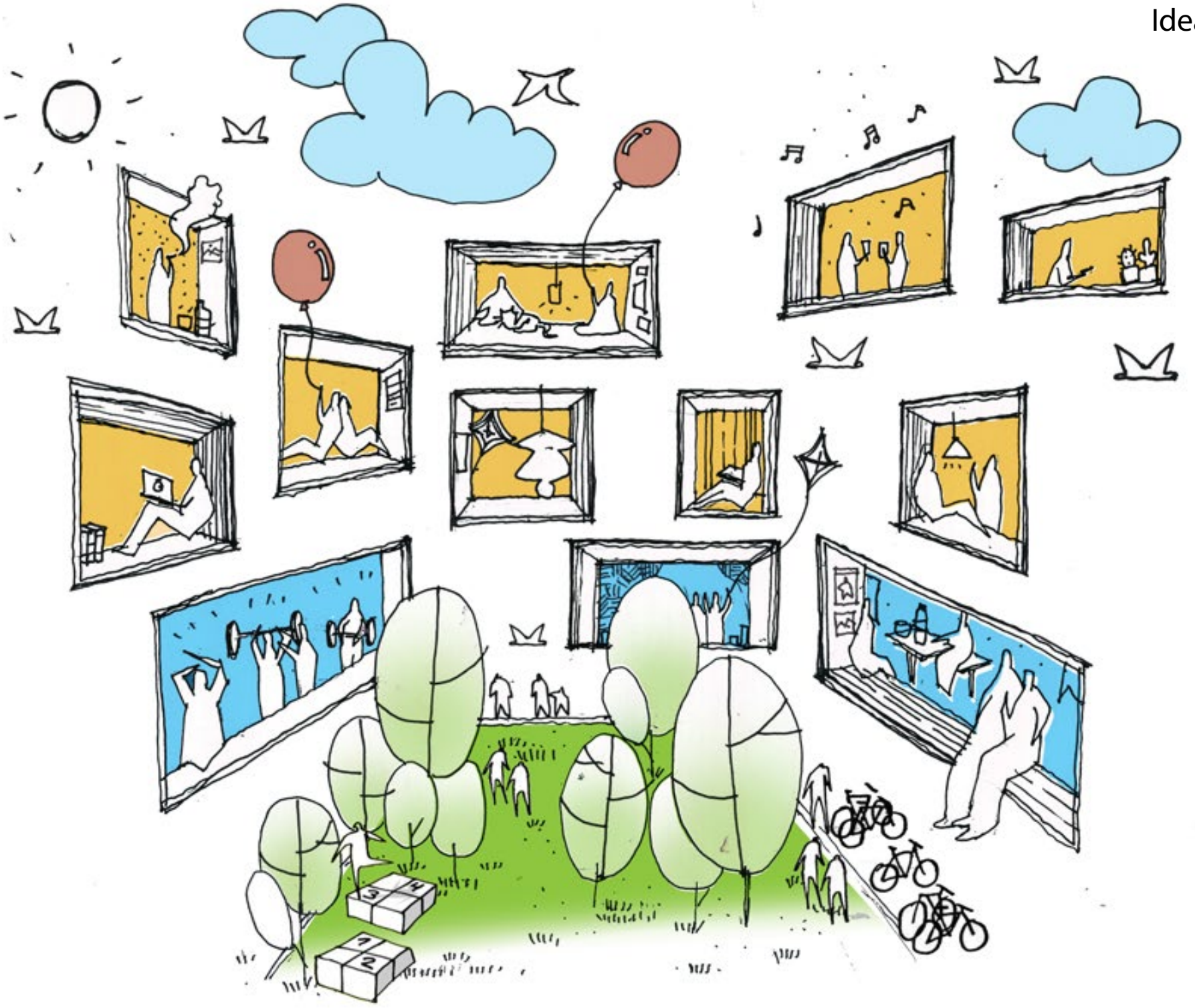
Q : ทำอย่างไรให้อยากกลับบ้าน ?





Sketch Plan

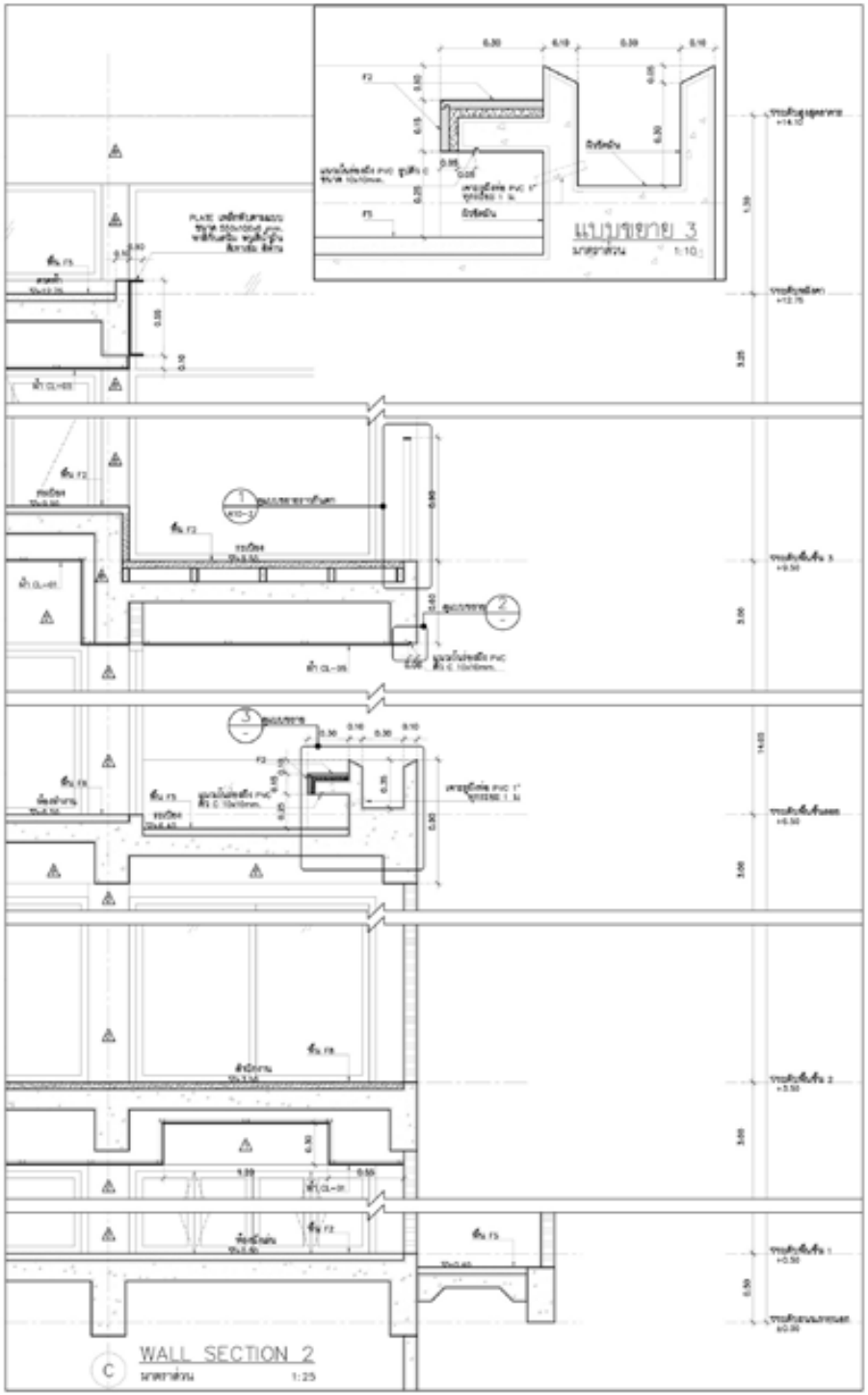
Idea Sketch

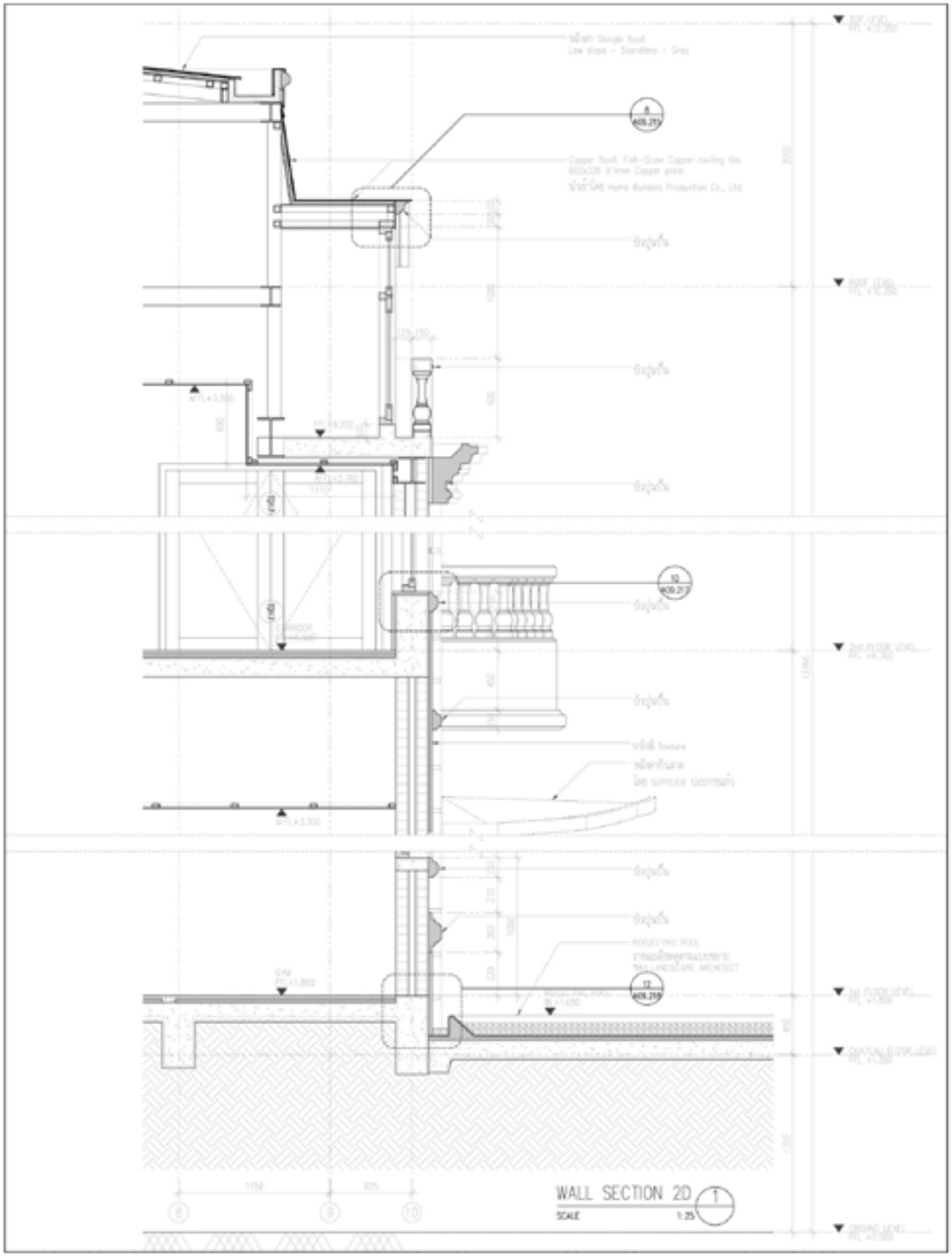


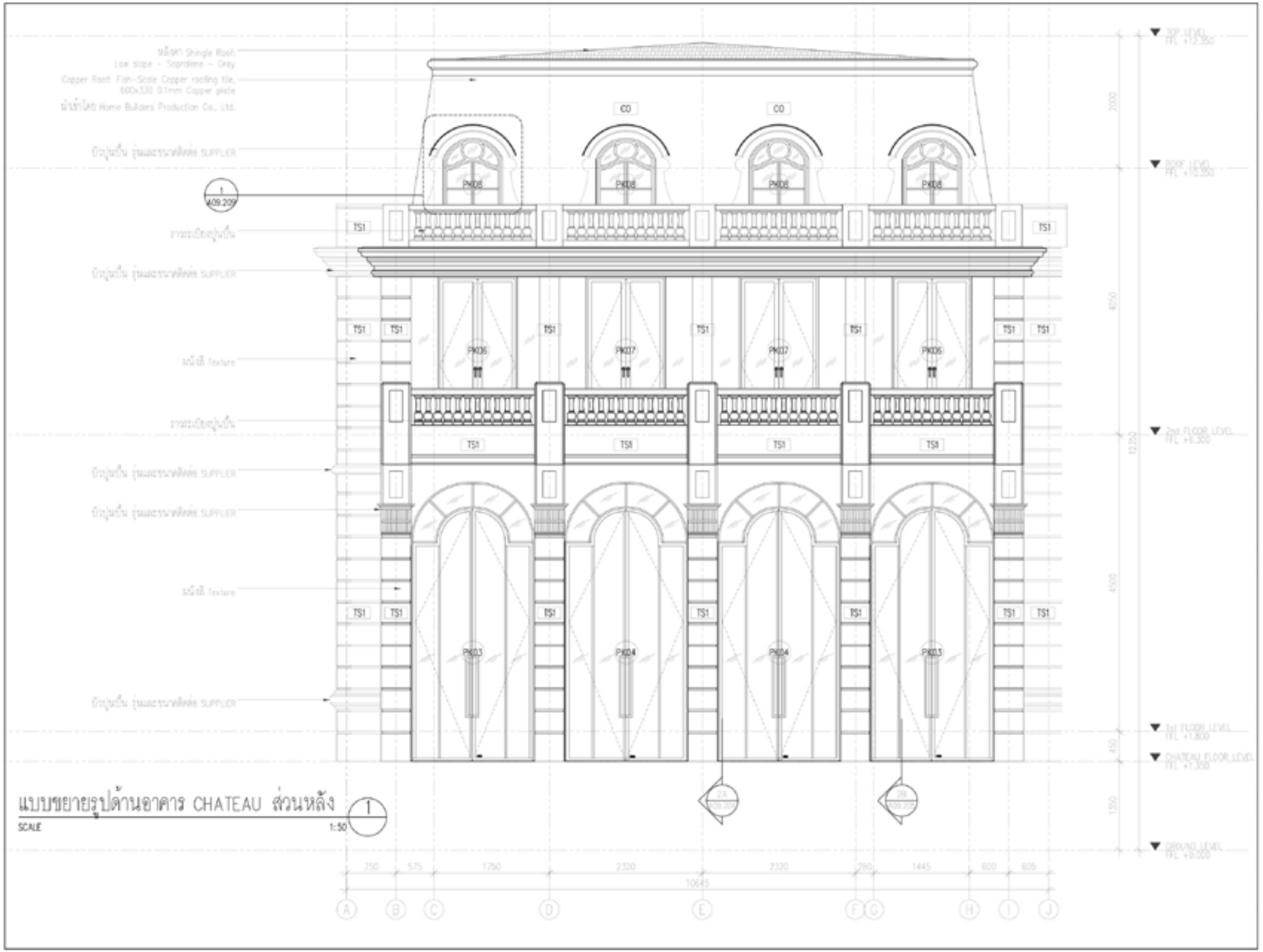
Perspective

Other Skills

Drawing Skills

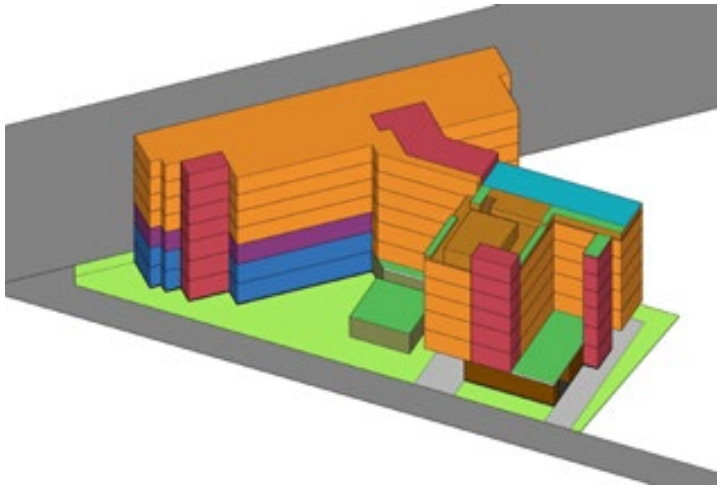

WALL SECTION 2
1:25


WALL SECTION 2D
SCALE 1:25



แบบขยายรูปด้านอาคาร CHATEAU ส่วนหลัง 1

SCALE 1:50



SITE AREA

Site Area (As per Title Deed)	2	Rai
	42	sq.wah
Site Area	**3,370.00**	**sq.m.**
(As per site survey Autocad drawing given by the owner)		

GFA SUMMARY

ซ 9 - 2 (CHACUCHAK Yor 9-2)		
FAR	7	
Permitted GFA	23,590.00	sq.m.
Total GFA Provision	**12,678.20**	**sq.m.**

OPEN SPACE RATIO SUMMARY

Open Space Ratio Required by Building Code	4.50%		
Open space on ground floor plan	1,384.39	sq.m.	
Ratio provision (open space over GFA)	**10.92%**	**sq.m.**	Complied
Required non-covering area on ground	30.00%		
	1,011.00	sq.m.	Complied

RESIDENTIAL AREA SUMMARY

Guest room 26 sq.m.	130	Rooms.	52%			
Guest room 30 sq.m.	87	Rooms.	35%			
Guest room 35 sq.m. +	31	Rooms.	13%			
Total Unit	**248**	**Rooms.**		LAST UPDATE 29/08/2018	- Control room	
Total Unit Area	**7,648.99**	**sq.m.**		7,649.00	**7,642.79**	**sq.m.**
NSA Efficiency Over GFA	**60.33%**				**60.28%**	
Shop Area	37.50	sq.m.			37.50	sq.m.
Total NSA With Shops	**7,686.49**	**sq.m.**		7,686.00	**7,680.29**	**sq.m.**
NSA Efficiency With Shops Over GFA	**60.63%**				**60.58%**	

GREEN AREA COMPUTATION

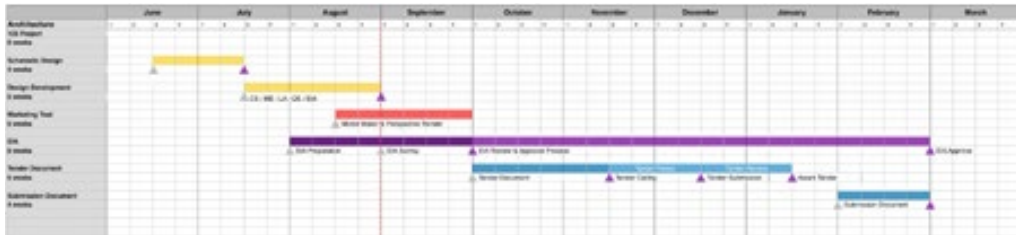
REQUIRED GREEN AREA			PROVISION MADE ON PLAN		
Required Green Area			**Green Area Provision Made On Plan**		
Sustainable Green	505.50	sq.m.	Sustainable Green	**441.22**	sq.m.
General Green	310.50	sq.m.	General Green (On Second floor plan)	**113.43**	sq.m.
Total Green Area Requirement	816.00	sq.m.	General Green (On Roof floor plan)	**65.00**	sq.m.
			Total Green Area Requirement	**819.65**	sq.m.

PARKING LOTS COMPUTATION

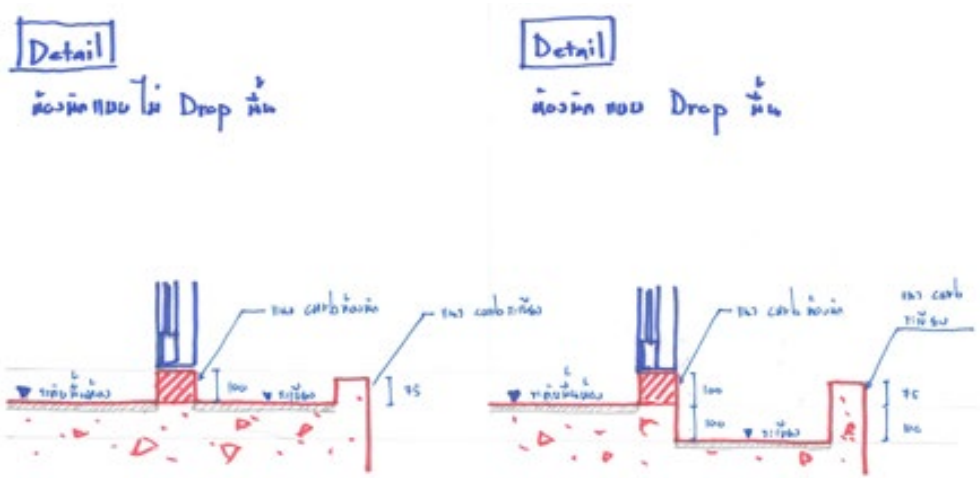
Required Parking Lots	90.94	Lots
Provided Parking Lots	**91**	**Lots**
Above Required Lots by	0	Lots
Parking Lots Provision in Percent	36.69%	
Parallel Parking	10	Lots
Total Parking Lots	**101**	**Lots**
Parking Lots Provision in Percent	40.73%	

Feasibility Study

GFA / NSA / EIA



Team Management



Site Coordination

Work Experience

Other Works

Housing

K22 House
2014, Freelancer

P36 Gallery & Cafe
2014, Office AT

Samui House
2014, Office AT

B56 Home Office
2015, Freelancer

CH16 Home Office
2016, Office AT

738 Residence
2016, TADAH

MEWs
2016, TADAH

VK Showrrom
2017, TADAH

Office Building

BKL Udon
2014, Office AT

BKL Ubol
2015, Office AT

TS Office & Warehouse
2015, Office AT

Commercial

Glass House @ Sindhorn
2013, Office AT

Areeya Clubhouse
2014, Office AT

Prime Water
2014, Office AT

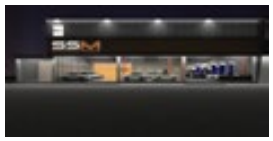
Ideal Park Front
2015, Office AT

Richie's Bakery (Interior)
2015, Freelancer

Somite Clothes Rental (Interior)
2015, Freelancer

PTT Dao Khanong
2017, TADAH

Bangchak PM4
2017, TADAH



SSM
2017, Freelancer

Condominium

The Sky THL25
2017, TADAH

Noble SUK42
2017, TADAH

WALDEN Asoke
2017, TADAH

GEO Ladprao
2017, TADAH

XTP
2019, TADAH

Residential

Novel LP18
2019, TADAH

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