PORTFOLIO
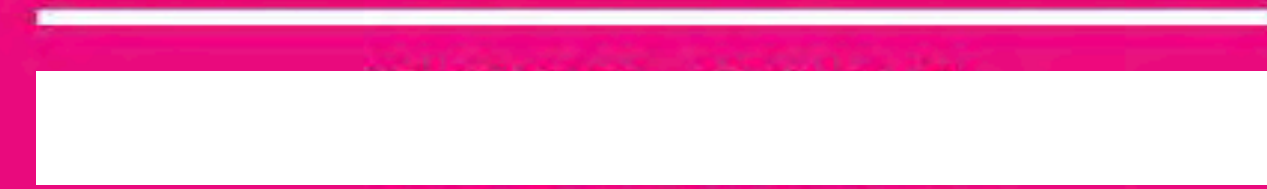## Selected projects

Napakaorn Buatong

Faculty of Architecture // University of Hawaii, Manoa

Faculty of Architecture // Chulalongkorn University

CHULALONGKORN UNIVERSITY

BANGKOK 10330
THAILAND

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ADMISSION May 28, 2009 (B.E. 2552)
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DEPT/PROGRAM International Program
FIELD OF STUDY Architectural Design
DEGREE Bachelor of Science (2nd Class Honours)

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GRADUATION May 31, 2013 (B.E. 2556)

| COURSE NO.	ABBREVIATED NAME	CREDIT	GRADE	COURSE NO.	ABBREVIATED NAME	CREDIT	GRADE
1ST SEMESTER 2009				**2ND SEMESTER 2012**			
2301111	CALCULUS	3	B+	2541412	ARCH DSGN V	6	A
2541111	DESIGN I	6	A	6 6	4.00	148 148	6 500.00
2541121	GLOB HIST ART DSGN	3	C	CA CG	GPA	CAX CGX	GPAX GPX
2541141	DSGN TS I	3	A				
5505111	ACAD WRIT ARCH	3	C	Total credits registered		= 148	
18 18	3.25	18 18	58.50	Total credits earned		= 148	
2ND SEMESTER 2009				Cumulative grade point average		= 3.38	
0201151	OUR ENVIRONMENT	3	B				
2304160	PHYSICS ARCH	3	B+		*Nuban.*		
2304169	PHYSICS LAB ARCH	1	B+				
2541112	DESIGN II	6	A				
2541122	CONT ART DSGN ENVI	3	C				
2541131	INTRO ENVI DSGN	3	C				
2541142	DSGN TS II	3	B				
22 22	3.09	40 40	3.16 126.50				
1ST SEMESTER 2010							
0201123	CULT TRAD TH LIFE	3	C				
2541132	FUND STR DSGN	3	A				
2541211	DESIGN III	6	B				
2541222	HIST THEO ARCH I	3	C+				
2541231	TROP ARCH DSGN	3	B+				
18 18	3.00	58 58	3.11 180.50				
2ND SEMESTER 2010							
2142109	AUTO STUDIES	3	B+				
2541163	FML ANAL/PRES ARCH	3	W				
2541212	ARCH DSGN I	6	B+				
2541221	DSGN THK INQ	3	B+				
2541223	HIST THEO ARCH II	3	B				
2541224	SEA ARCH	3	A				
2541232	CONS TECH	3	B+				
21 21	3.50	79 79	3.22 254.00				
SUMMER SESSION 2010							
2305151	ORGANIC GARDENING	3	A				
2541241	DSGN BLT PROJ	0	S				
3900200	EX/SP HLTH	3	B				
1ST SEMESTER 2011							
2207103	PHILOS LOGIC	3	B+				
2541311	ARCH DSGN II	6	B				
2541322	CONTEMP THEO ARCH	3	B+				
2541331	TECH BLDG SYS I	3	A				
2541341	ARCH COM ECOL	3	B+				
3800250	HUMAN RELATIONS	3	A				
21 21	3.50	106 106	3.29 348.50				
2ND SEMESTER 2011							
2403183	SOCIETY & CULTURE	3	B-				
2541165	INDEPENDENT STUDY	3	B				
2541312	ARCH DSGN III	6	B-				
2541321	EW PHIL PDG DSGN	3	B				
2541332	TECH BLDG SYS II	3	A				
2541342	ARCH URBAN	3	B-				
2541344	DSGN EXP WKS	0	S				
21 21	3.43	127 127	3.31 420.50				
SUMMER SESSION 2011							
2541343	DSGN CONS PROJ COM	0	S				
1ST SEMESTER 2012							
2541411	ARCH DSGN IV	6	B+				
2541441	BLDG ECON RE DEV	3	A				
2541442	ARCH MGT	3	A				
5505411	PROP WRT ARCH PROJ	3	B+				
15 15	3.70	142 142	3.35 476.00				

Building Skin

The movable design of building skin alternates different figgures of the overhanging shading device. It reflectes different shade patterns on the ground of architecture building courtyard, Universiry of Hawaii. This digital model was created via combination of Grasshopper 3D program and Rhinoceros 3D program.

Palladio's Villa Rotunda

Napakaorn Buatong 22603124
Arch 490 003 Digital Design Synthesis
University of Hawaii
Spring 2013
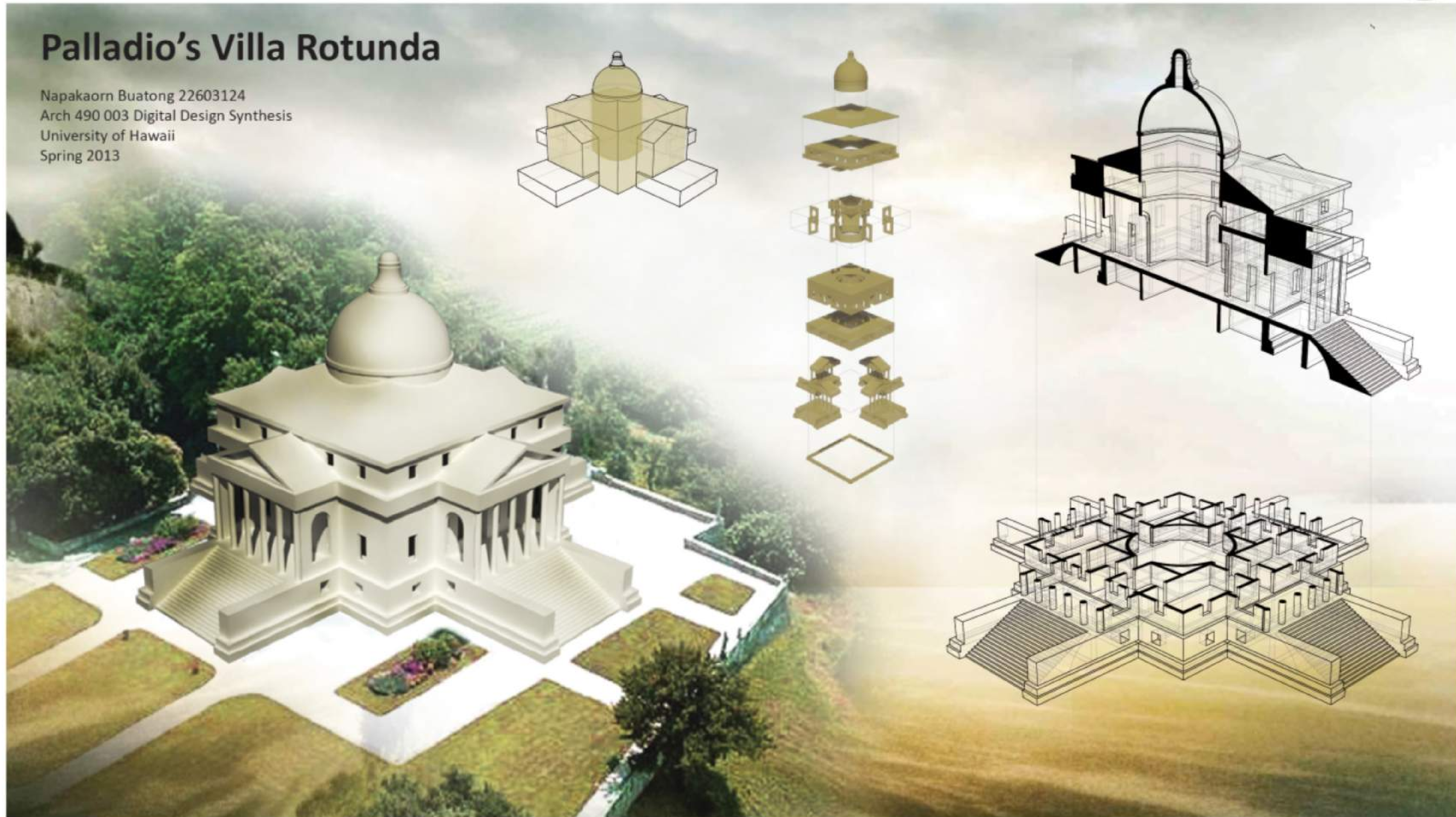
Palladio's Villa Rotunda project focuses on the presentation which includes section cut, model rendering, model massing and exploding axonometric model from 3D Rhinoceros and 2D Photoshop and Illustrator program. The translation of model reveals consistency and understanding of harmonous symmetry of Palladio's Villa Rotunda.

Sustainable border house
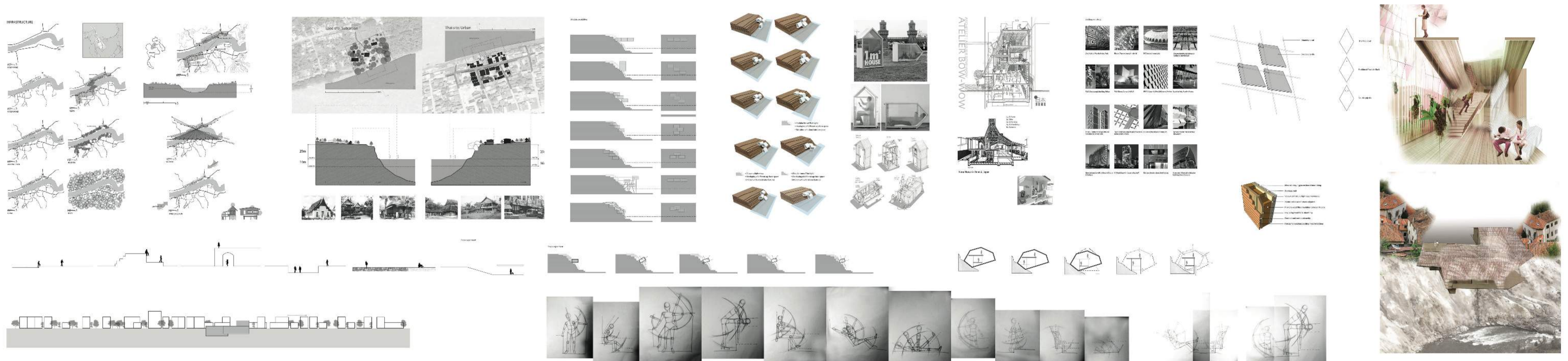
The project is at the border between 2 nations, Thai and Laos, divided by Mekong river. The single house project explores the meaning of hierarchy and border by politic boundries, 3 generation users and physical habitat. Utilizing the geography of steep river edge benefits users specific needs and common function.

Ergonomic study of different ages, child, adult and elder, improves an understanding of function in relation to space quality. Transformed and tilted unit geometry multiply users and views which is shown in space design vertically and horizontally.

Overlapping personal space and common space increase engagement of 3 generation activities especially and visually. Furthermore, concerning overheating of a building in tropical area, a new sustainable building envelop has been introduced as an adjustable two grips ceramic tiles. it develops from traditional Thai roof tiles and with proper angle it effectively reduces heat transfer throughout different time of the day.

Terrace Housing

Ventilation

Unit type

During exchange program in University of Hawaii, the tropical Housing project is in Hanoi, Vietnam. It conveys sense of commuunity, yet individual living style in the heart of an urban residential area. The inspiration from "Vietnamese Step Farming" allows each unit to have a private terrace and provide shade for the unit below. The void in the middle of the building enhances natural ventilation and vertical garden promote passive building cooling system.

Type A

Type B

Global Culinary Center

Global culinary center designs internationally to serve locals and travellers. In the business core of Bangkok, Thailand, the architecture stands out captured Oriental eating culture while embracing the Occidental. Restaurants, gourmet market and cooking school demonstrate vibrant activities while presenting each nation's identity to create comfortable atmosphere for visitors.
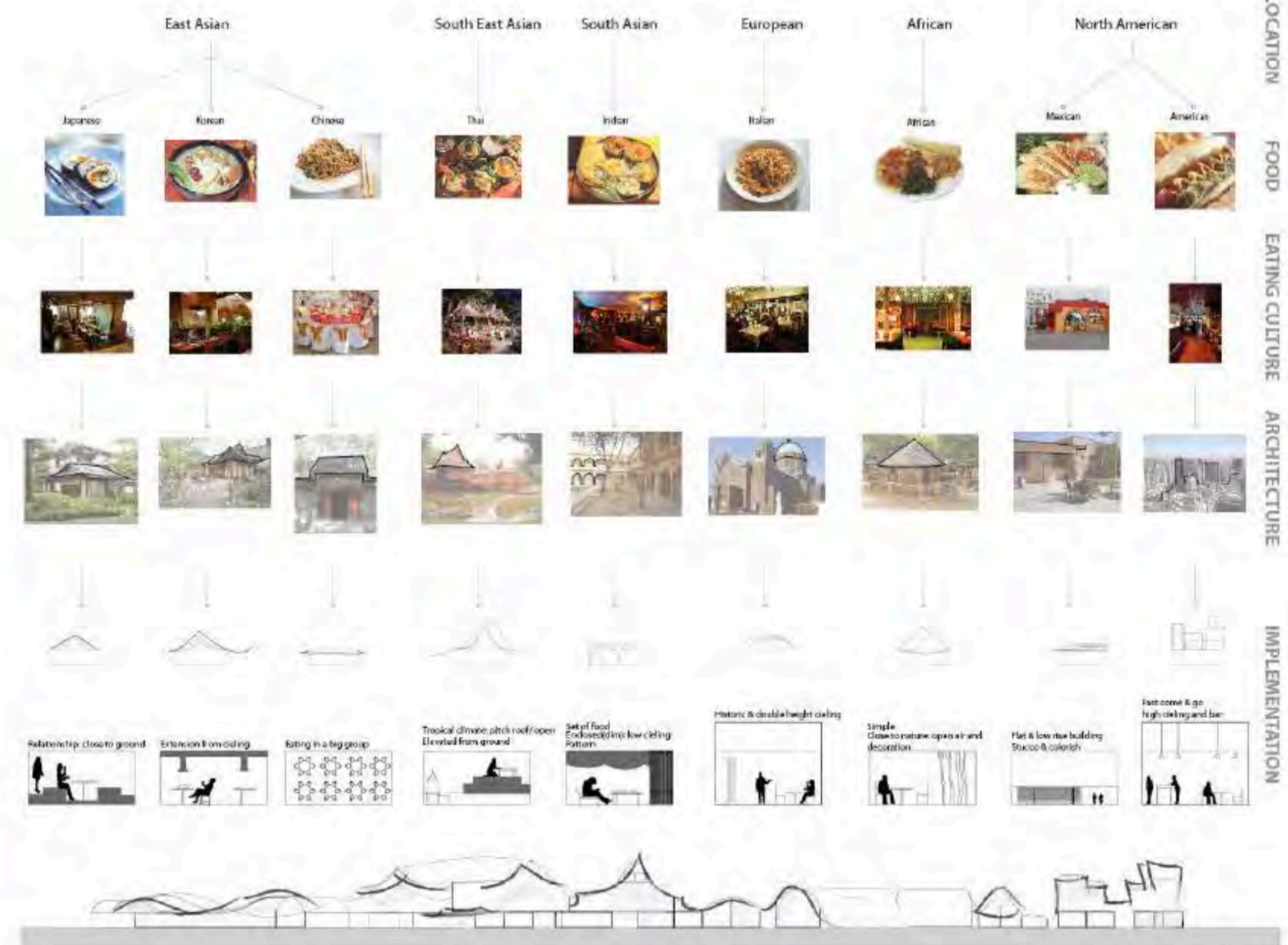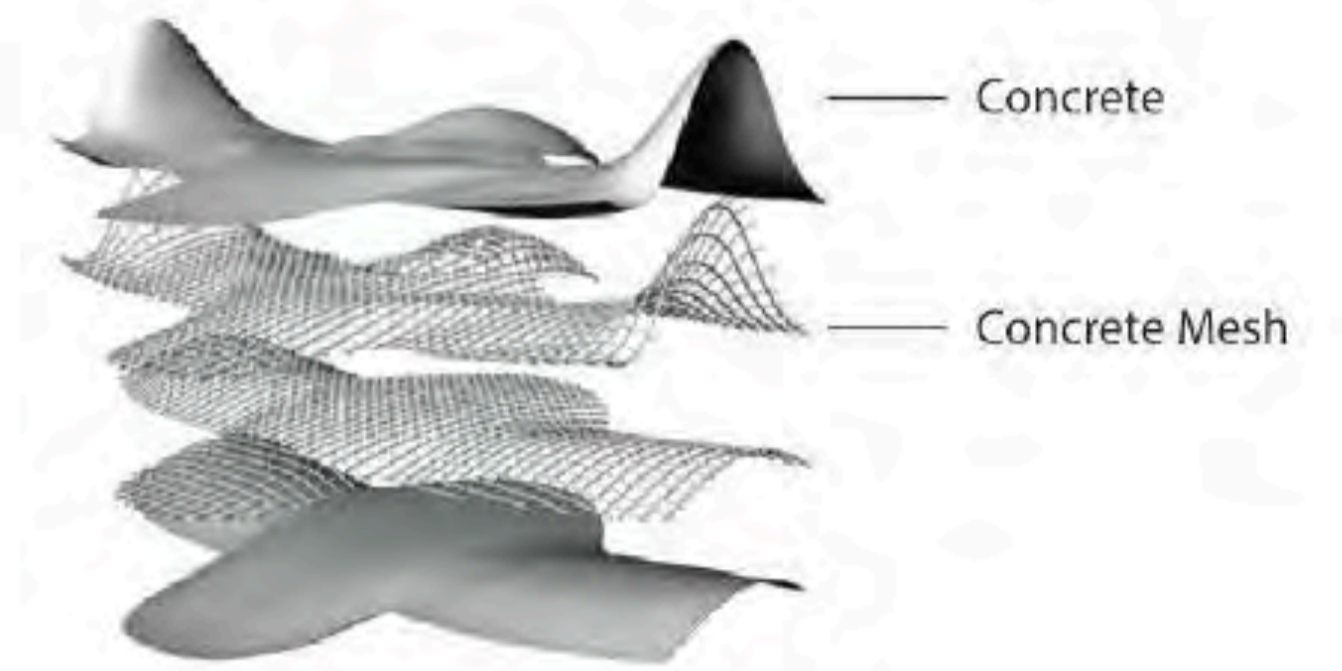
Global Culinary Center

Influence

Business Area
•• Mass Transit

†SIAM
†††SUKUMWIT
†KLONGTOY
BTS   MRT

Transportation

BTS NANA
BTS ASOK
MRT QSNCC

•Internal Tram Shuttle
•Boat Shuttle
•External Tram Shuttle: BTS

Office worker &Business travelers

MRT travelers & Event visitors

Concrete
Concrete Mesh

LOCATION
FOOD
EATING CULTURE
ARCHITECTURE
IMPLEMENTATION

East Asian   South East Asian   South Asian   European   African   North American

Different eating pattern and cuisine explain the history and character of its nation through ingredients, eating habits and architecture. It affects architecturally roofing style and interior of culinary center. Moreover, U-shape layout gives visual accessibility and forms gathering space in the middle of the site.
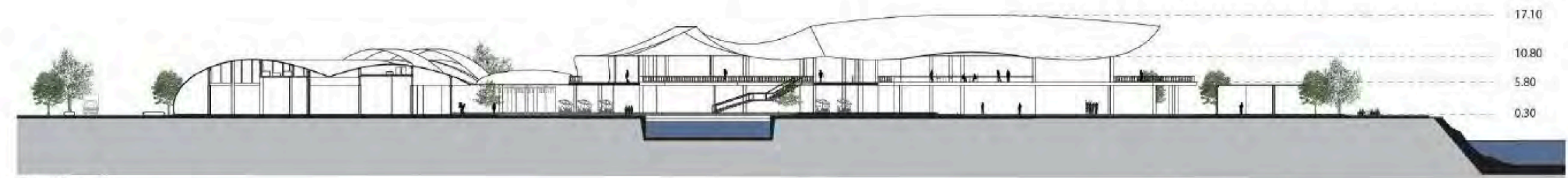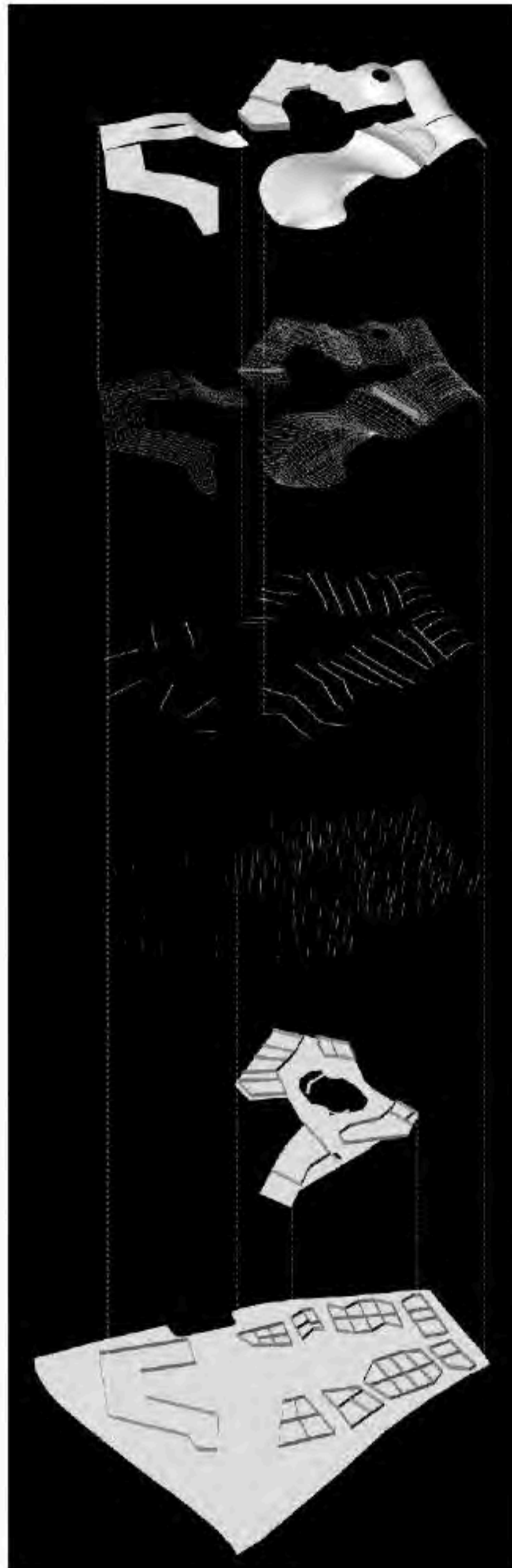
Global Culinary Center

Plan 1 🕐 ━━━━ ━━━━ ━━━━
    10m   50m   100m

1 Show kitchen
2 Restaurant
3 Gathering space
4 Kitchen
5 Food court
6 Common room
7 Technical room
8 Toilet
9 Boat station
10 Tram station
11 Bike parking
12 Service parking

Plan 2 🕐 ━━━━ ━━━━ ━━━━
    10m   50m   100m

13 Office
14 Lab
15 Cold Storage
16 Dry ingredient
17 Bakery
18 Changing room
19 Lecture room
20 Computer room
21 Library
22 Bistro
23 Kitchen
24 Staff room
25 Terrace
26 Fire exit

Global Culinary Center

Section A

17.10
10.80
5.80
0.30

Section B

15.80
10.80
5.80
0.30
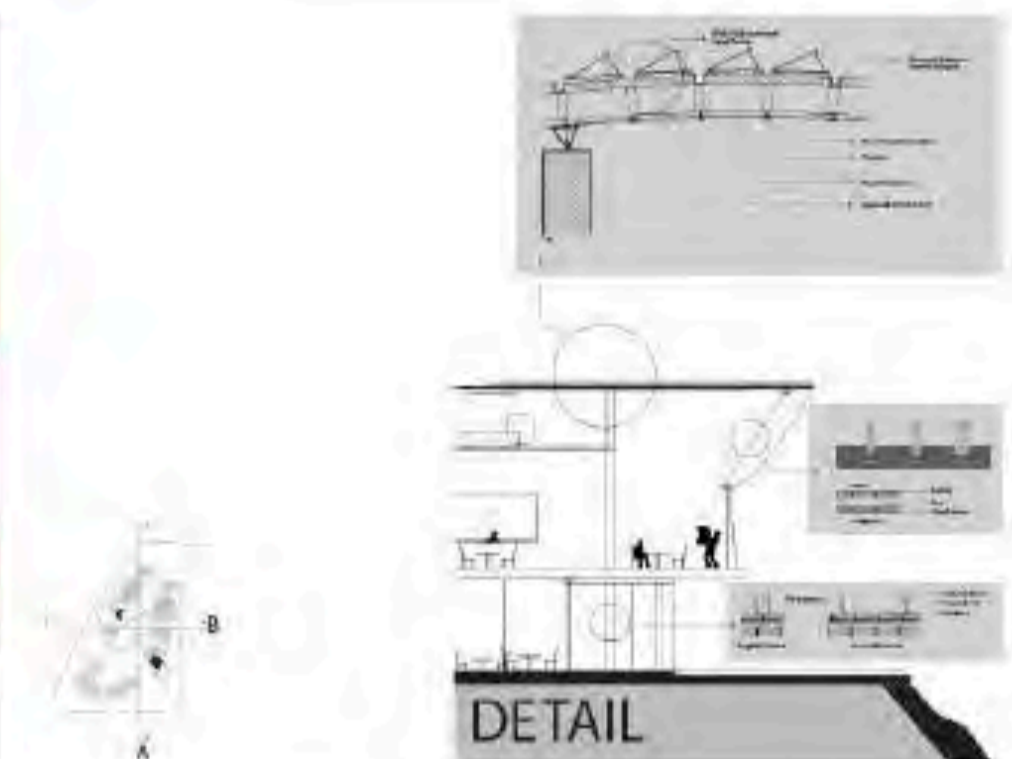
10m   50m   100m

East Elevation

South Elevation

DETAIL

Continous roof emphasizes sustainable design by using comcrete mesh attached with solar panels plus extra roof clearance for the eco- building mechanic storage. And water front feature provides panoramic view, boat shuttle service and combination of water cycling pond.

Threshole project is a transitional space in front of architecture building where students and professors can use as a meeting spot or a resting place. The inspiration from typography contains awards, honours and history of department of architecture, Chulalongkorn University on each wall. The text can be approached from a different perspective. It plays perception and information into space.

Bedroom Design

Here is a bedroom design for an elder lady who is fasinated with chololate tone to give it a warm and classy look.
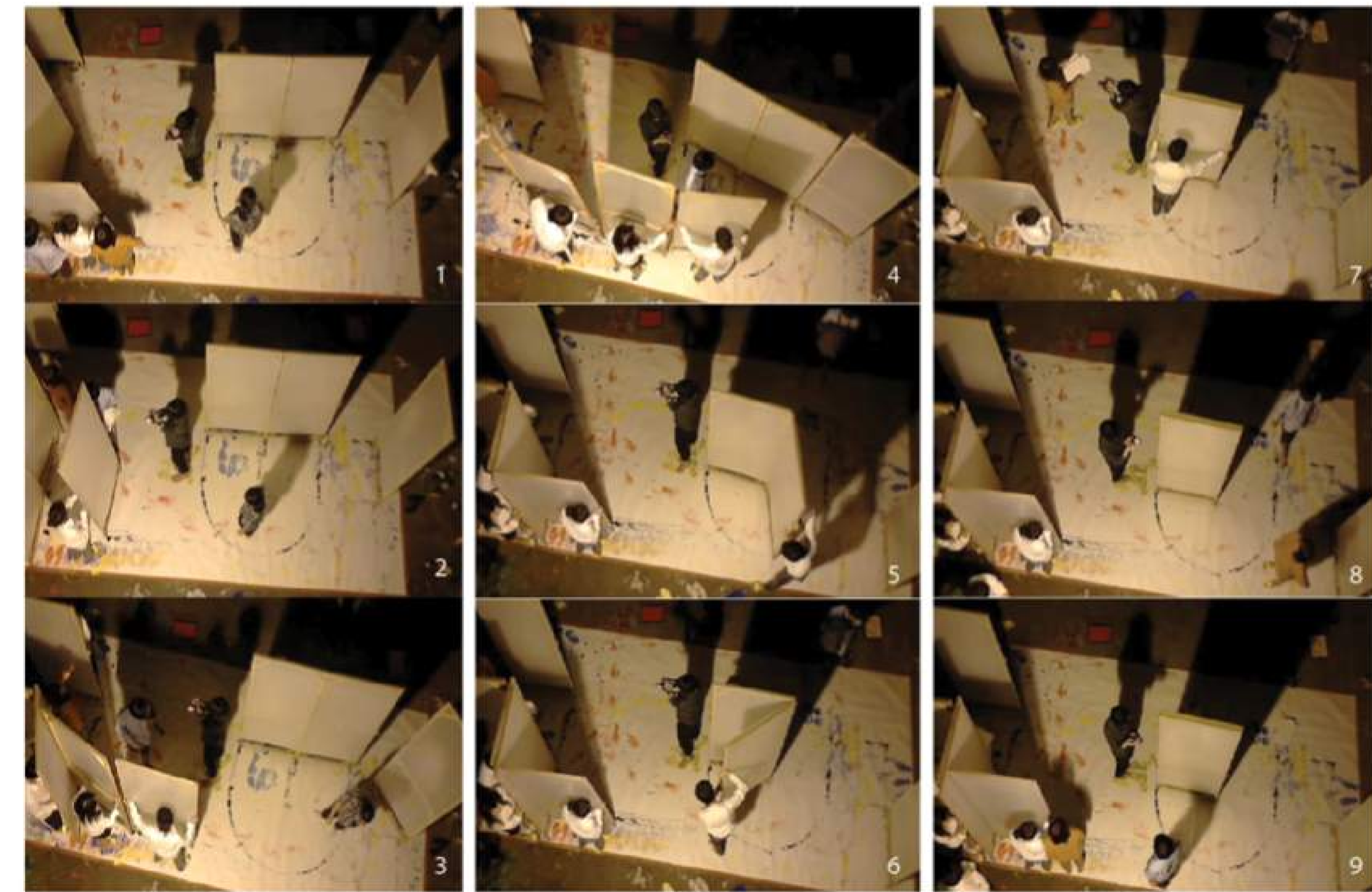
An international design workshop on Cinematrics with Brian McGrath in Taiwan. The last day was a life performance at "Design at the edge, 2011 IDA congress Taipei". We performed a play by utilizeing limited space to the maximum in order to film the movie scenes. The traces reveal actors movement in relation to space and time.

Acrylic painting is one of my leisure activities since 2009. Scenery, object and architectural painting are my expertise.

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