





PORTFOLIO CONTENT

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 - **UTA INTERNATIONAL AIRPORT (PTB 3)**
Sino-Thai Engineering & Construction Public Company Limited
 - **STECON SITE OFFICE**
Sino-Thai Engineering & Construction Public Company Limited
 - **MRTA PINK LINE MONORAIL (DEPOT)**
Sino-Thai Engineering & Construction Public Company Limited
 - **RATCHAPRUEK HOSTEL**
Lamoonta Architects Co.,Ltd.
 - **BE BASIC ART THERAPY CENTER**
Thesis
-

SIRINART KLUMDOUNG

PORTFOLIO

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☎ TEL. +668 6090 9621
📍 BANGKOK, THAILAND

PERSONAL SUMMARY



PROFILE

Full name : Sirnart Klumdoung
Nickname : Namtan
Gender : Female
Birthday : 14 / 08 /1994
Nationality : Thai
Religion : Buddhism

EDUCATION

• BACHELORS DEGREE
King Mongkut's University of
Technology North Bangkok (KMUTNB)
2013 - 2018
GPA 3.77 (First Class Honor)

“ A focused and committed person with Punctuality and responsibility by nature and able to get along with subordinate, co-worker and managers, currently looking for a suitable architect position. ”

PROFESSIONAL EXPERIENCE

ARCHITECT

Sino-Thai Engineering & Construction Public Company Limited
Bangkok, Thailand
AUG 2019 - JAN 2022

JUNIOR ARCHITECT

Lamoonta Architects Co.,Ltd.
Bangkok, Thailand.
SEP 2018 - JULY 2019

ASSISTANT ARCHITECT (INTERNSHIP)

Integrated Field Co.,Ltd.
Bangkok, Thailand.
2017

SKILL

PRESENTATION SKILL

- Presentation
- Adobe photoshop
- Lumion
- Sketch up

DOCUMENTATION SKILL

- Microsoft Word
- Microsoft Excel
- Microsoft Outlook
- Microsoft Power Point

LANGUAGE SKILL

- TH : Excellent
- ENG : Intermediate

ACAD SKILL

- Autodesk autocad
- Autodesk revit
- Autodesk navisworks
(Clash Detection)
- Autodesk BIM 360
- Autodesk Constuction Cloud

UTP INTERNATIONAL AIRPORT PROJECT

STECON



Location : Utapao, Rayong, Thailand

My responsibility is a project coordinator in package 1 on architectural part containing Passenger terminal 3 (PTB3) and Ground transportation center (GTC) by coordinate and recheck information about design standards (ICAO, IATA, Regulation, etc.) and requirement of all parties to conform owner design concept (UTA) by based on International designer architect (SOM).

Airport facility site development will incorporate a total of 4 planning phases determined on the basis of current and future passenger and air traffic demand forecasts. Passenger terminal building (PTB) with a targeted GFA of approximately 268,565 square meters and Ground transportation center (GTC) approximately 200,000 square meters.



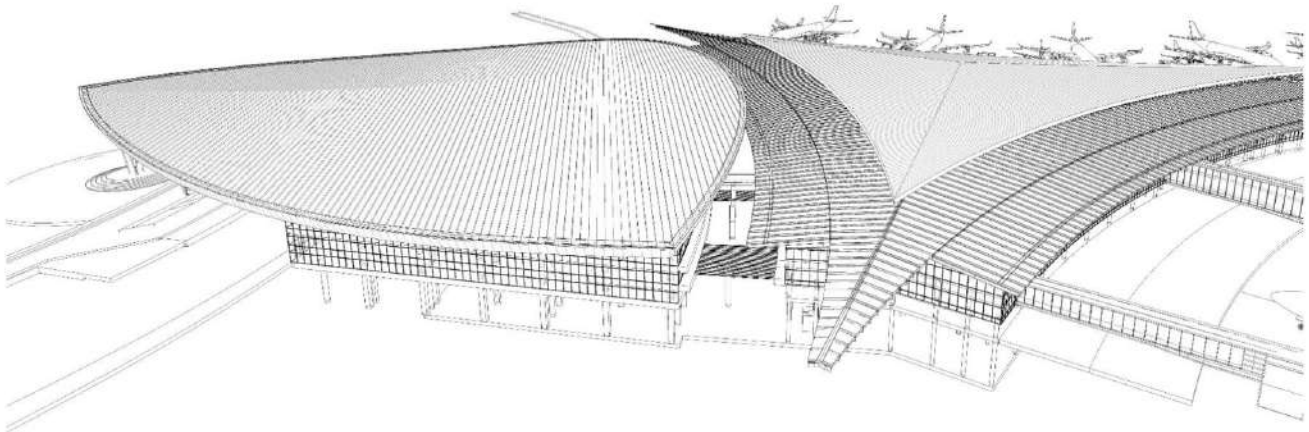
*Information from SOM, UTA, STECON and SVAECT

UTP INTERNATIONAL AIRPORT PROJECT

STECON

PASSEGER TERMINAL 3 (PTB 3)

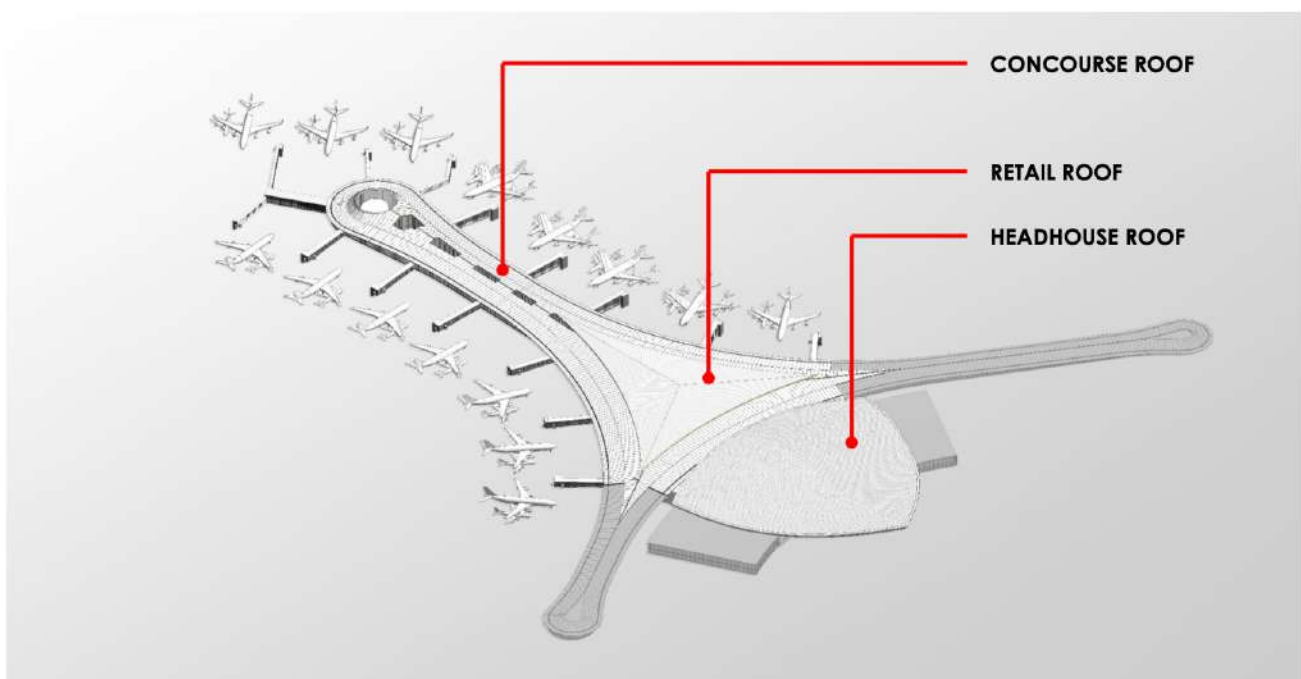
Passenger terminal 3 (PTB 3) Phase 1 Terminal includes a passenger handling capacity of 15.9 MAP with a provision of 30 Contact Gates and 20 Remote Gates based on a Code C equivalent calculation. The Terminal provides integrated operations for both domestic and international passengers.



My responsibility in EPC contract architect position are **analysis architectural issue and coordinate** with other parties for conclusion design methodology about design issues.

E.G.Possible Issues

- Water leakage from skylight
- Excessive heat and light gain from skylight
- Overbudget of construction



*Information from SOM,UTA,STECON and SVAECT

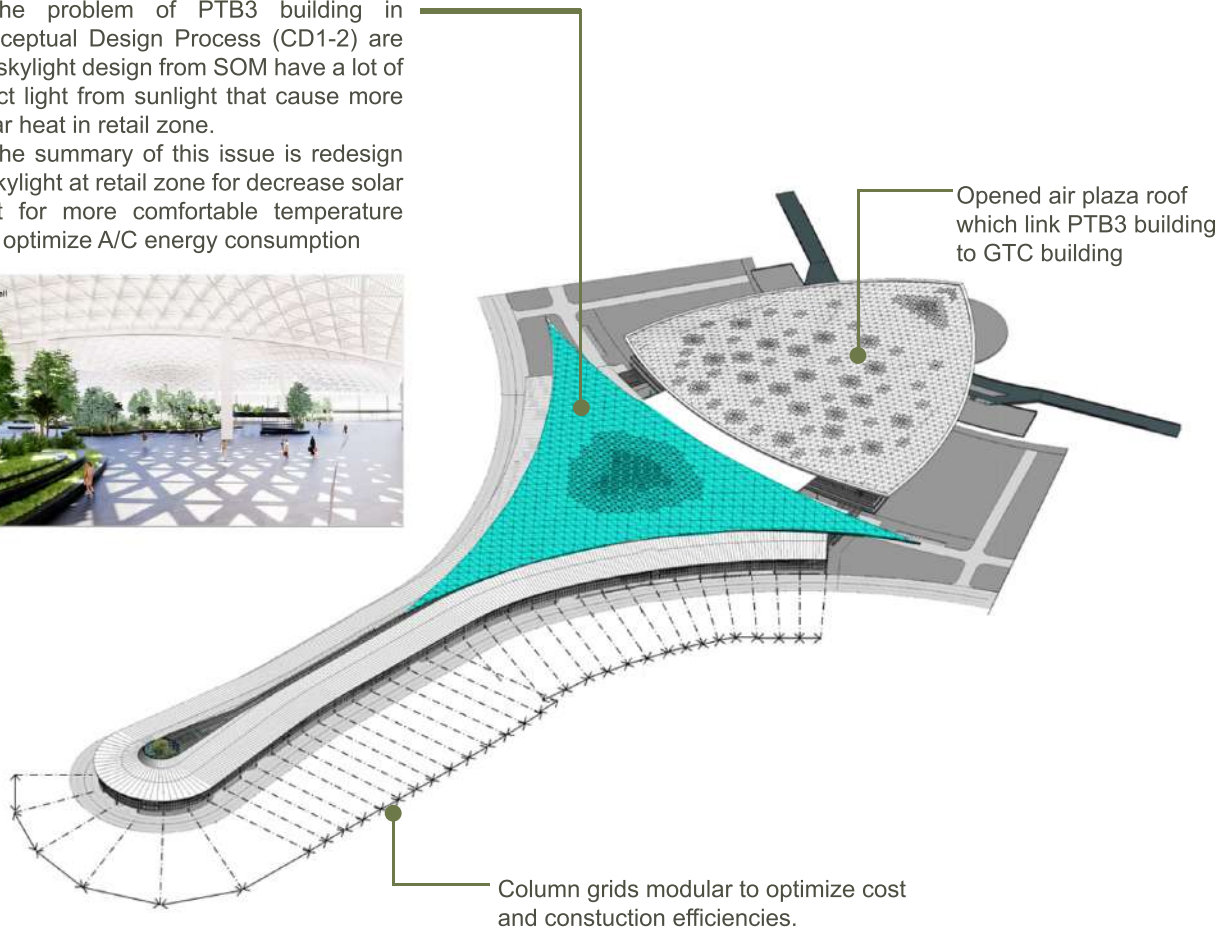
UTP INTERNATIONAL AIRPORT PROJECT

STECON

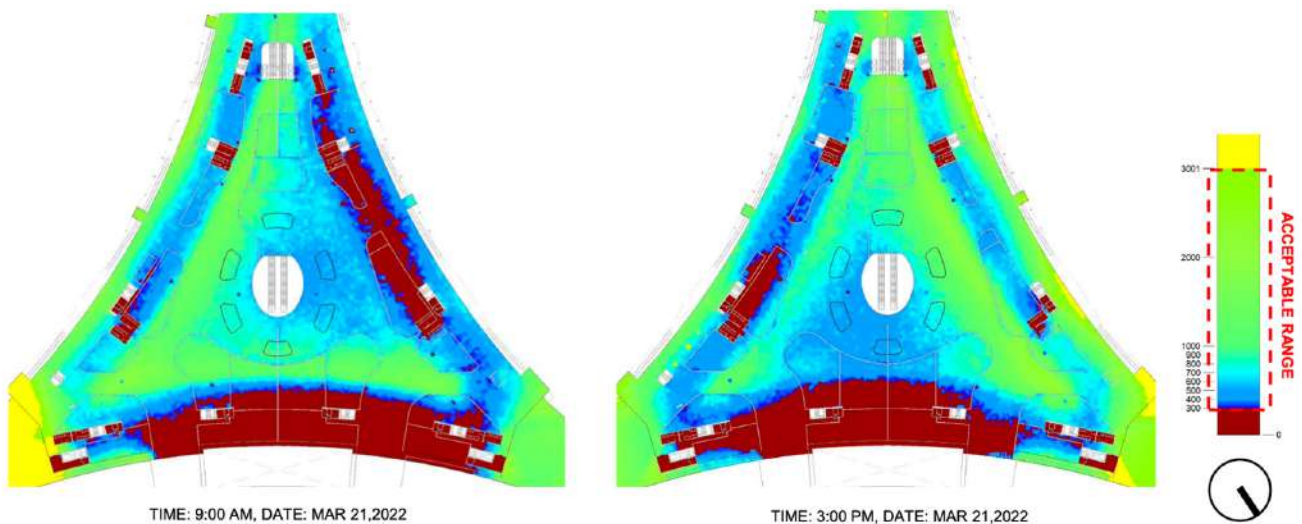
PASSEGER TERMINAL 3 (PTB 3)

The problem of PTB3 building in Conceptual Design Process (CD1-2) are the skylight design from SOM have a lot of direct light from sunlight that cause more Solar heat in retail zone.

The summary of this issue is redesign of skylight at retail zone for decrease solar heat for more comfortable temperature and optimize A/C energy consumption



SOLAR HEAT GAIN SIMULATION ON EQUINOX DAY

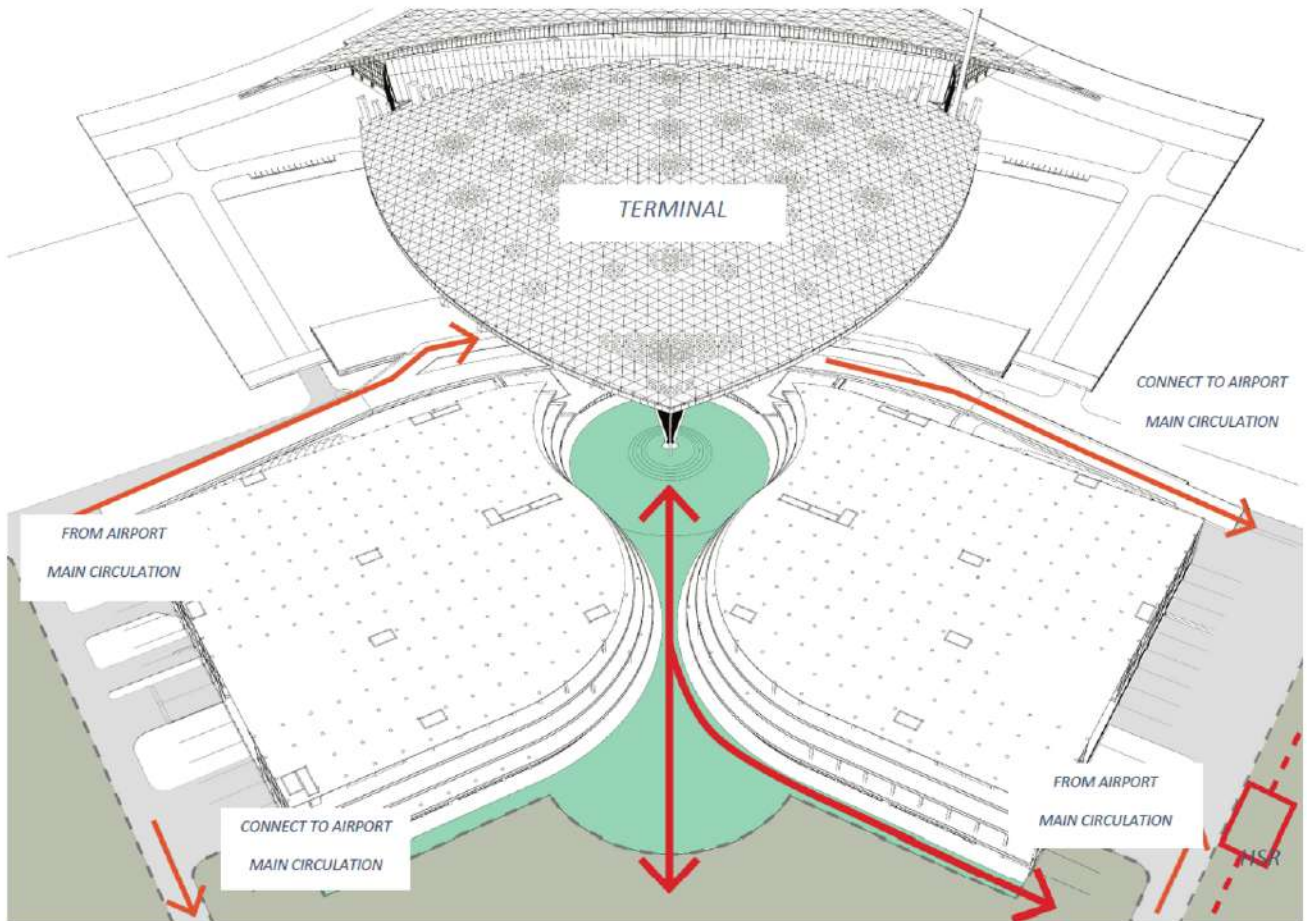


*Information from SOM,UTA,STECON and SVAECT

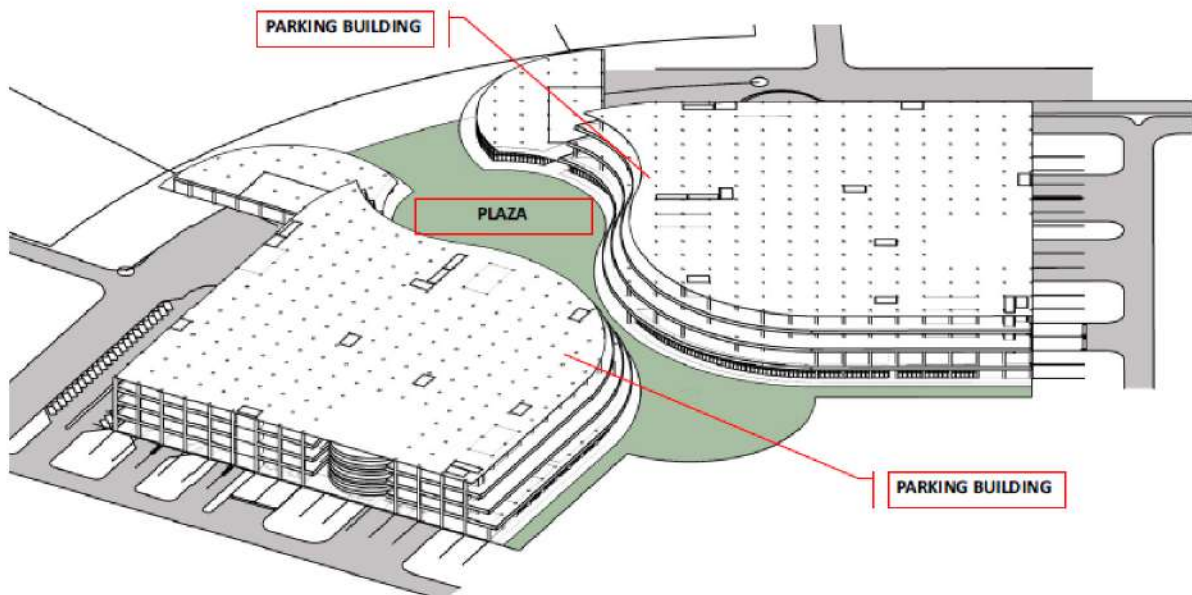
UTP INTERNATIONAL AIRPORT PROJECT

STECON

GROUND TRANSPORTATION CENTER (GTC)



Ground Transportation Center (GTC) is one part of airport primary zone, containing shops and car park area (public bus, rideshare, taxi, and private car).



*Information from SOM,UTA,STECON and SVAACT

UTP INTERNATIONAL AIRPORT PROJECT

STECON

GROUND TRANSPORTATION CENTER (GTC)

PREFABRICATED SYSTEM

The concept of construction part is proceed on prefabricated system to simplified construction process reduces the time, increases the productivity,quality and safety and reduce the budget.

Staircase



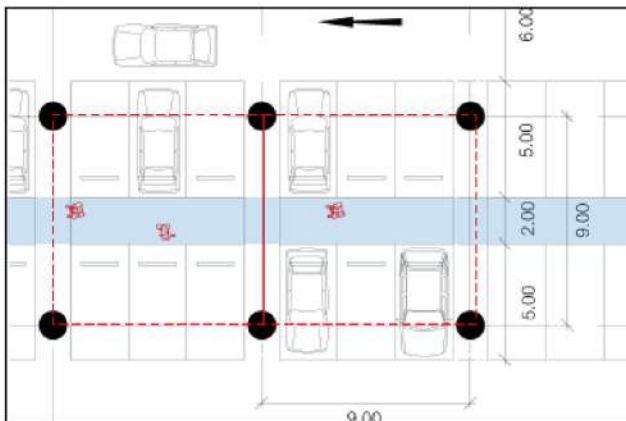
Railing



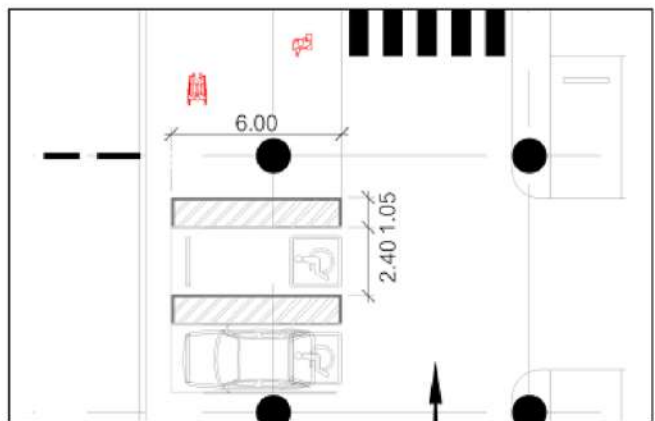
Ramp



Floor and Wall



Modular grid of 9x9 meters give the high potential of parking lot design with 2 meters width of walkway in the back of parking area is provided to minimize the car-pedestrian crossing.



Accessible parking spaces must be located on the shortest accessible route to an entrance.

According to modular grid of 9x9 meters If there are multiple accessible entrances to a building, the spaces should be divided among each entrance and located closest.

*Information from SOM,UTA,STECON and SVAACT

STECON SITE OFFICE

STECON

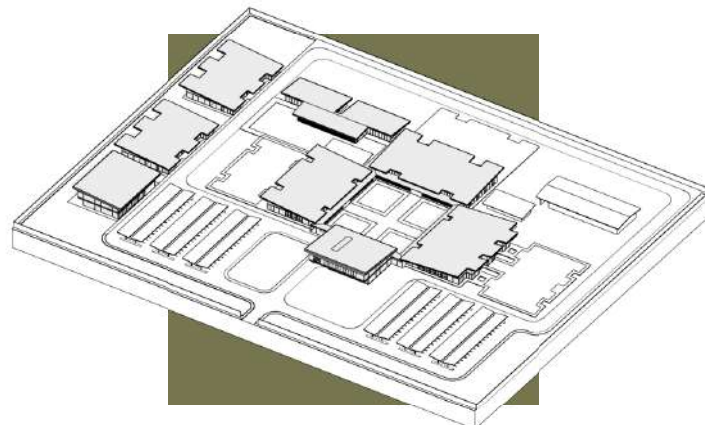


Location : U-tapao ,Rayong,Thailand

Stecon Site Office is a supported project for **UTA International Airport project** under condition of modular and limited budget which create maximum the quality of space to inspire employer working experience for increasing productivity.

This office able to support expansion area in the future.

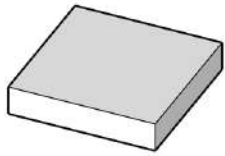
“ QUALITY OF SPACE
QUALITY OF LIFE ”



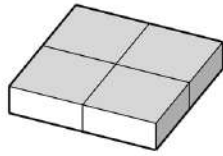
STECON SITE OFFICE

STECON

MASTER PLAN CONCEPT



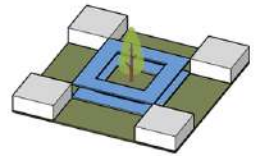
all function



seperate function

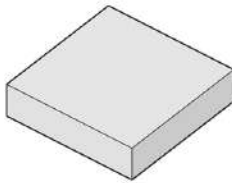


add green area

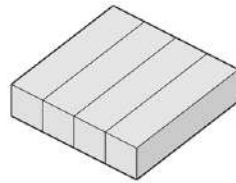


connect with
transition space

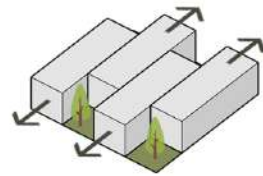
BUILDING CONCEPT



all function



seperate function



shift to add open space



STECON SITE OFFICE

STECON

MASTER PLAN



MODULAR SYSTEM

Create with steel structure modular size 3.0x6.0x2.70 meters and insulation panel under concept that **simplify, repeatable and reduce unnecessary waste material** on limited budget.



*modular mock up



STECON SITE OFFICE

STECON



MRTA PINK LINE MONORAIL (DEPOT)

STECON



Location : Ramkhamhaeng, Bangkok, Thailand

My responsibility is a **detailed designer** in building design team to coordinate and control about working drawings to conform owner design concept, design standards and requirement of all parties by reduce errors and design detailing and system that solve the best solution.

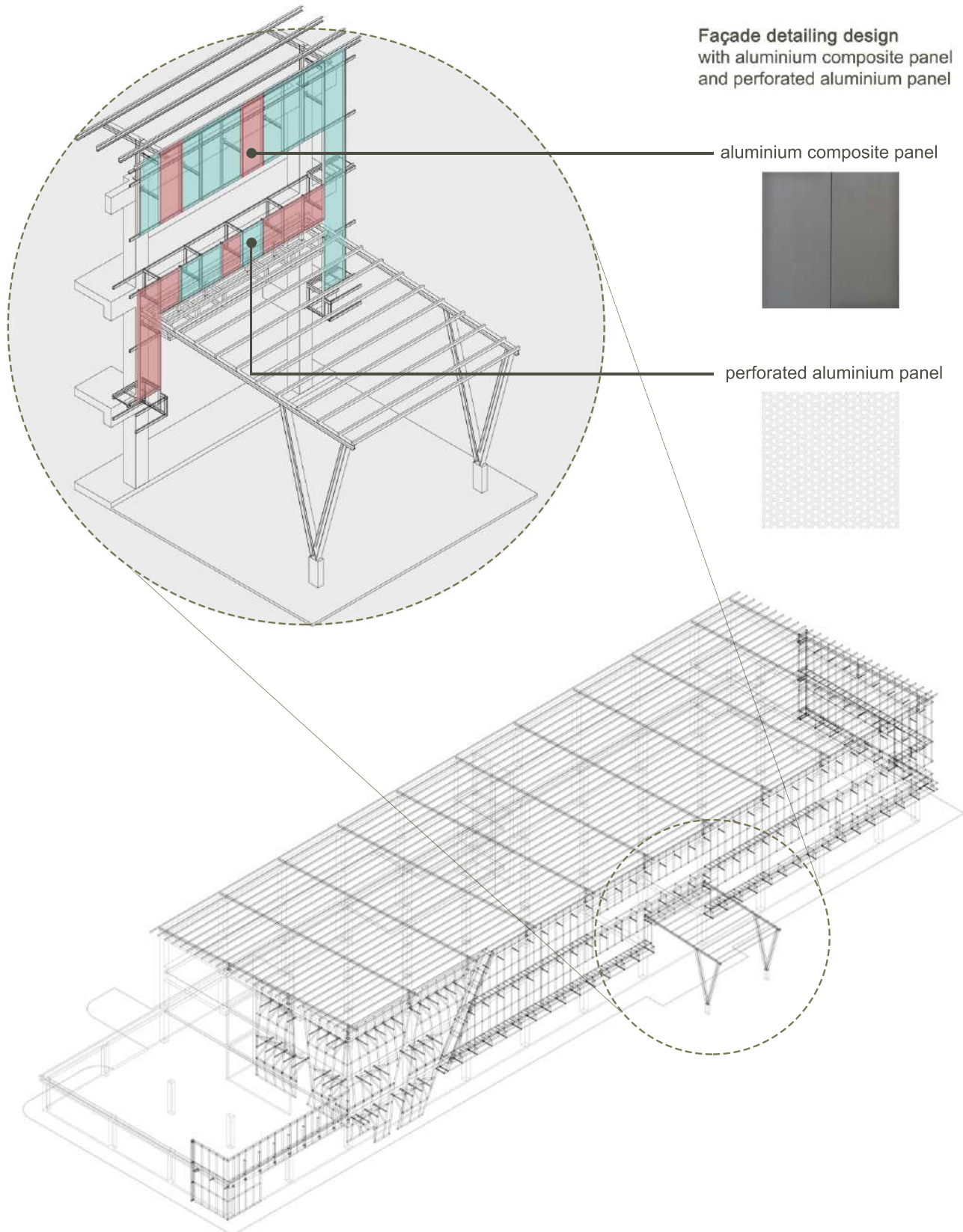
Depot is group of supported building for MRTA Pink Line Monorail Project which include operated building, office building, maintenance building, etc.



MRTA PINK LINE MONORAIL (DEPOT)

STECON

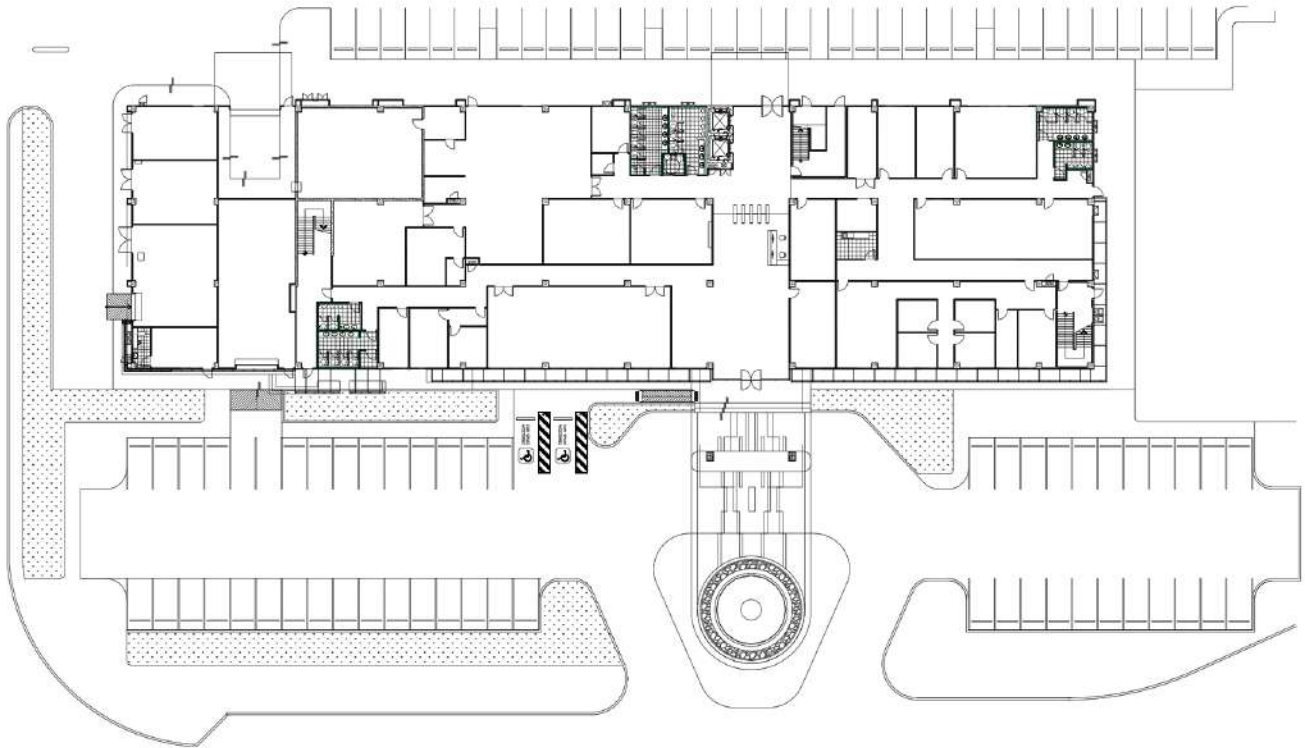
OCC(OPERATION CONTROL CENTER) AND ADMINISTRATION BUILDING



MRTA PINK LINE MONORAIL (DEPOT)

STECON

OCC(OPERATION CONTROL CENTER) AND ADMINISTRATION BUILDING



OCC Building was designed by more than 1 party that cause a lot of conflict between discipline. My scope of work are collect architectural data and check clash detection that may occur during construction phase.

The problem of facade system is conflict between structural system about main frame and sub frame with architectural system.

The conclusion of this issue is redesigning all of horizontal and vertical line arrangement with same concept idea that approve from owner.



MRTA PINK LINE MONORAIL (DEPOT)

STECON



RATCHAPHRUEK HOSTEL

LAMOONTA ARCHITECTS



Location : Ratchaphruek ,Bangkok, Thailand

Ratchaphruek Hostel is project which including basement, mezzanine and rooftop. This hostel consists of 6 private bedrooms with shared lounge ,sometimes kitchen, toilet and shower room for backpackers, cycle tourists, and gap year travelers.

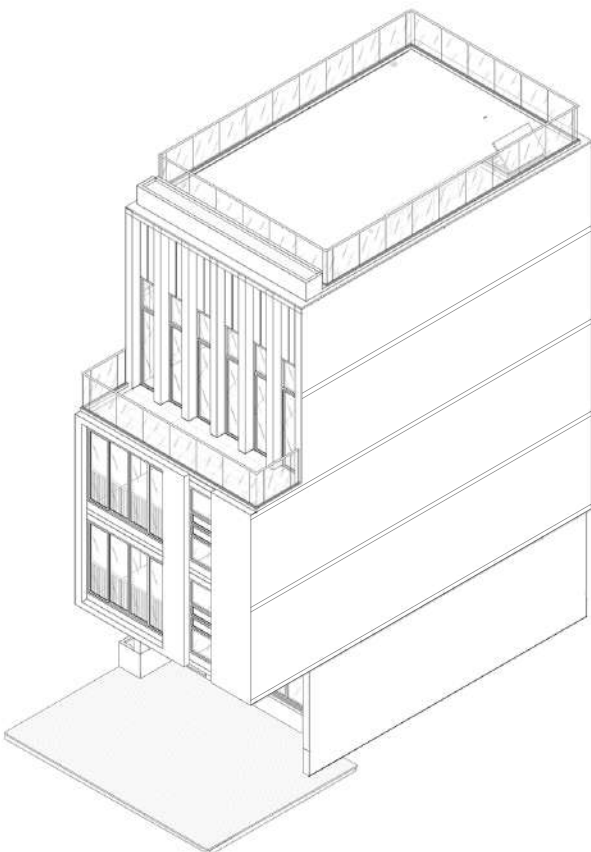
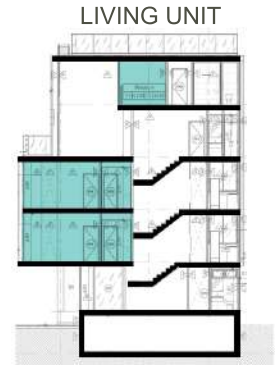
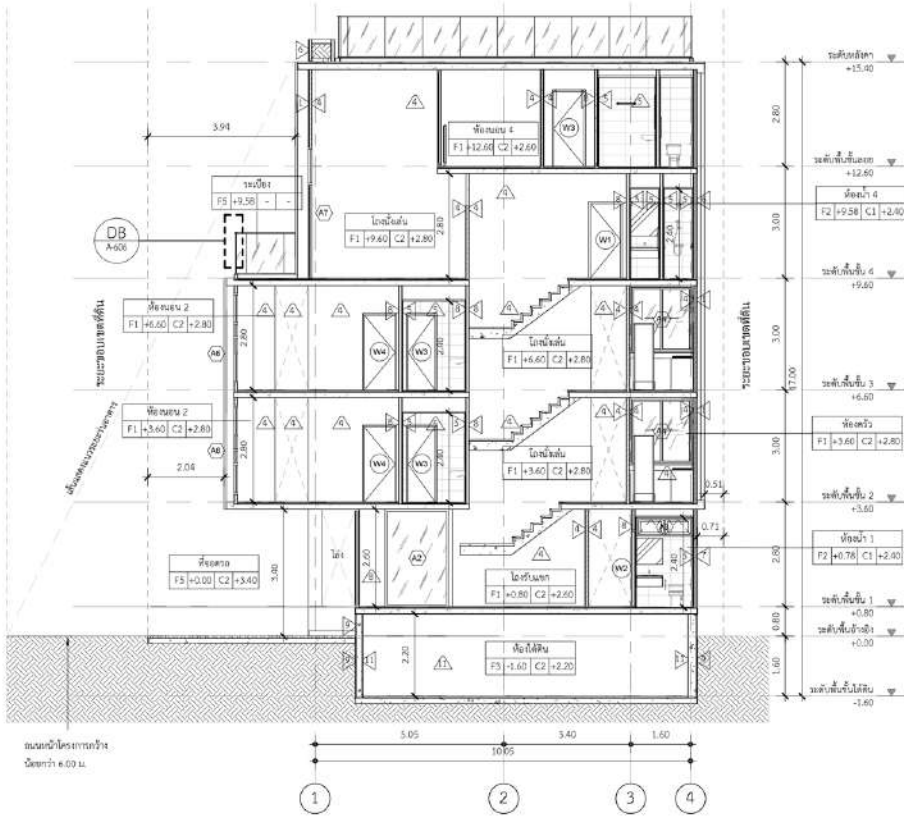
My responsibility of this project are rendering, presentation, permission drawing and construction drawing with BIM process to reduce working time and problems that might occur during the collaboration with other discipline.



RATCHAPHRUEK HOSTEL

LAMOONTA ARCHITECTS

SECTION DIAGRAM



BE BASIC ART THERAPY CENTER

THESIS

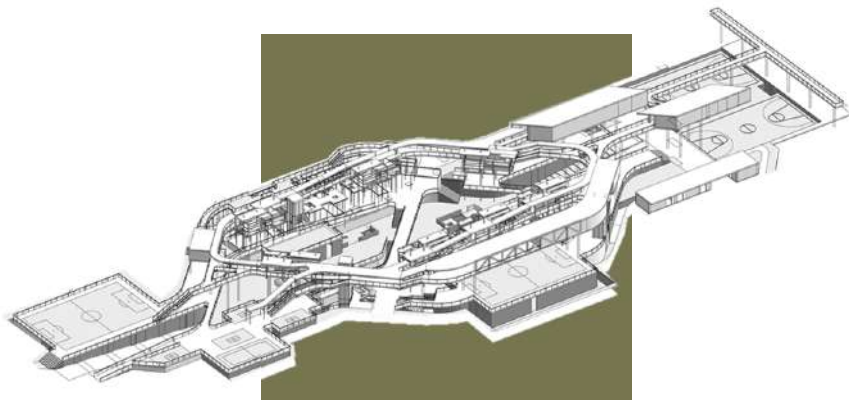


Location : Chaloeprakiarti Forest Park Taksin Bridge, Bangkok, Thailand

Art Therapy is artistic activities that use for diagnose defects or some disorders of the mental process with patients. Other benefits is also can express their thoughts and feelings by the concept which is to focus on the "Process" not the Result.

Be Basic Art Therapy Center is a project which is a new place for everyone to relax their minds through their hands with various arts on the "Process" of each artistic activities.

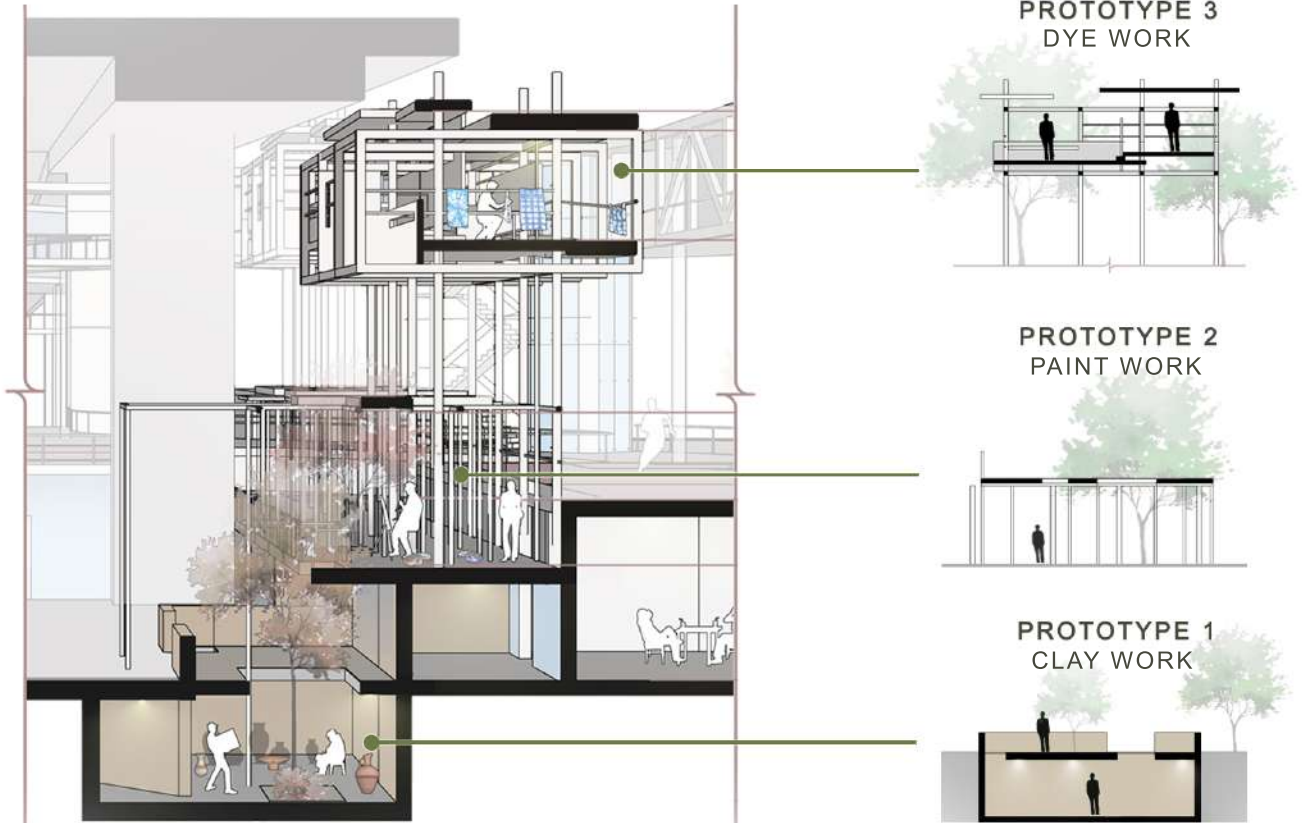
“ A PLACE THAT ANYONE CAN JOIN ARTS ”



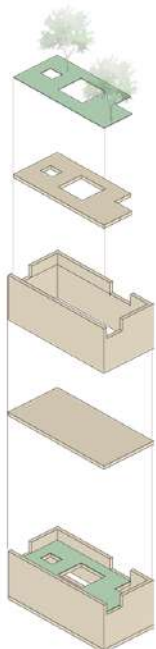
BE BASIC ART THERAPY CENTER

THESIS

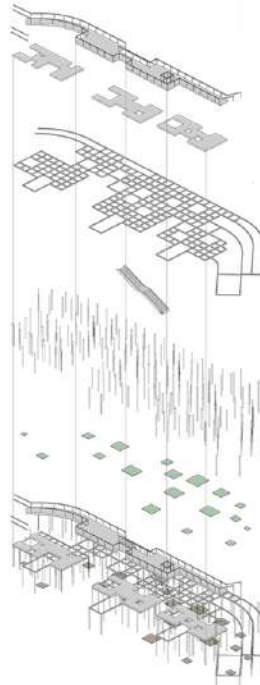
TYPE OF SPACE / SENSE OF SPACE



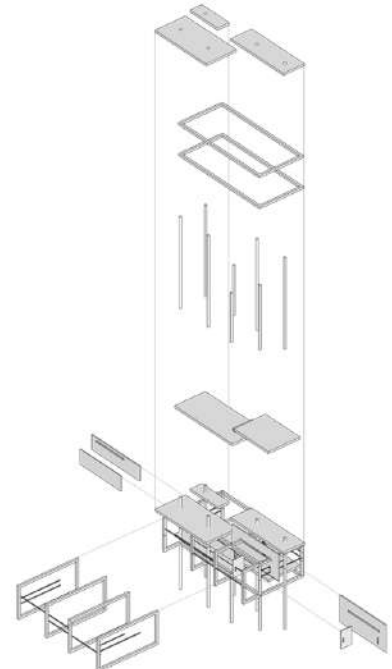
PROTOTYPE 1
CLAY WORK



PROTOTYPE 2
PAINT WORK



PROTOTYPE 3
DYE WORK



BE BASIC ART THERAPY CENTER

THESIS





**PORTFOLIO
ADDENDUM**



เลขที่ 5409

คณะสถาปัตยกรรมและการออกแบบ
มหาวิทยาลัยเทคโนโลยีพระจอมเกล้าพระนครเหนือ

หนังสือรับรอง

หนังสือสำคัญฉบับนี้ให้ไว้เพื่อแสดงว่า

นางสาวสิรินาถ คลุ่มดวง

เลขประจำตัว 56-110216-1011-4 เกิดวันที่ 14 เดือน สิงหาคม พ.ศ. 2537

ได้สำเร็จการศึกษาปริญญาสถาปัตยกรรมศาสตรบัณฑิต เกียรตินิยมอันดับ 1

สาขาวิชาสถาปัตยกรรม หลักสูตร 5 ปี

โดยได้รับอนุมัติผลการศึกษาจากสภามหาวิทยาลัยเทคโนโลยีพระจอมเกล้าพระนครเหนือ

เมื่อวันที่ 8 มิถุนายน 2561

ให้ไว้ ณ วันที่ 10 กรกฎาคม 2561



(นายสุเทพ จันทน)

คณบดีคณะสถาปัตยกรรมและการออกแบบ

ลายมือชื่อนักศึกษา



**KING MONGKUT'S UNIVERSITY OF TECHNOLOGY NORTH BANGKOK
BANGKOK THAILAND**

**OFFICIAL TRANSCRIPT OF RECORDS
FACULTY OF ARCHITECTURE AND DESIGN**

RECORD NO 56-110216-1011-4
 DATE OF BIRTH August 14, 1994
 PREVIOUS EDUCATION M.6 (Grade 12)
 DATE OF ADMISSION June 3, 2013
 DEGREE CONFERRED Bachelor of Architecture (Architecture) (First Class Honours)
 FIELD OF SPECIALIZATION —

NAME IN THAI นางสาวสิรินาท คลุมดวง
 NAME Miss SIRINART KLUMDOUNG
 PLACE OF BIRTH BANGKOK METROPOLIS, THAILAND



COURSE NO.	COURSE TITLES	CRD.	GRD.	COURSE NO.	COURSE TITLES	CRD.	GRD.
1 st SEMESTER 2013				1 st SEMESTER 2014			
040203100	GENERAL MATHEMATICS	3	A	080203907	BUSINESS & EVERYDAY LIFE	3	B+
040423001	ENVIRONMENT & ENERGY	3	B	080303606	SYSTEMATIC & CREATIVE THINK	3	A
040503001	STATISTICS IN EVERYDAY LIFE	3	B	110213013	CONSTRUCTION DRAWING II	3	A
080103001	ENGLISH I	3	A	110213118	ARCHITECTURAL DESIGN II	3	A
080303505	TABLE TENNIS	1	B+	110213129	MATERIAL & CONSTRUCTION I	3	B+
110213011	ARCHITECTURAL PRESENTATION	3	B+	SEM.	3.80	15	15
110213116	FUNDAMENTALS DESIGN	3	A	CUM.	3.61	59	59
SEM.	3.57	19	19	INDEX	ATTEMPTED	EARNED	POINTS
CUM.	3.57	19	19	2 nd SEMESTER 2014			
INDEX	ATTEMPTED	EARNED	POINTS	080103016	ENGLISH CONVERSATION I	3	A
2 nd SEMESTER 2013				080203906	ECON FOR INDIVIDUAL DEV	3	A
080103002	ENGLISH II	3	B+	110213014	CONSTRUCTION DRAWING III	3	A
080303509	PETANQUE	1	B	110213119	ARCHITECTURAL DESIGN III	3	A
110213012	CONSTRUCTION DRAWING I	3	B+	110213130	MATERIAL & CONSTRUCTION II	3	A
110213036	COMPUTER GRAPHIC I	3	A	110213148	THEORY OF THAI ARCH I	3	A
110213046	HISTORY OF ARCHITECTURE	3	A	110213154	BUILDING STRUCTURE II	3	B+
110213117	ARCHITECTURAL DESIGN I	3	A	SEM.	3.92	21	21
110213128	STRU SYS IN ARCHITECTURE	3	B	CUM.	3.70	80	80
SEM.	3.63	19	19	INDEX	ATTEMPTED	EARNED	POINTS
CUM.	3.60	38	38	1 st SEMESTER 2015			
INDEX	ATTEMPTED	EARNED	POINTS	080103018	ENGLISH FOR WORK	3	B+
3 rd SEMESTER 2013				080303301	ART APPRECIATION	3	B+
110213145	INTERIOR DESIGN	3	A	110213015	CONSTRUCTION DRAWING IV	3	A
110213153	BUILDING STRUCTURE I	3	C+	110213120	ARCHITECTURAL DESIGN IV	3	A
SEM.	3.25	6	6	110213131	CONSTRUCTION TECHNOLOGY I	3	A
CUM.	3.55	44	44	110213149	THEORY OF THAI ARCH II	3	A
INDEX	ATTEMPTED	EARNED	POINTS	SEM.	3.83	18	18
3 rd SEMESTER 2014				CUM.	3.72	98	98
110213145	INTERIOR DESIGN	3	A	INDEX	ATTEMPTED	EARNED	POINTS
110213153	BUILDING STRUCTURE I	3	C+	1 st SEMESTER 2015			
SEM.	3.25	6	6	080103018	ENGLISH FOR WORK	3	B+
CUM.	3.55	44	44	080303301	ART APPRECIATION	3	B+
INDEX	ATTEMPTED	EARNED	POINTS	110213015	CONSTRUCTION DRAWING IV	3	A
3 rd SEMESTER 2015				110213120	ARCHITECTURAL DESIGN IV	3	A
110213145	INTERIOR DESIGN	3	A	110213131	CONSTRUCTION TECHNOLOGY I	3	A
110213153	BUILDING STRUCTURE I	3	C+	110213149	THEORY OF THAI ARCH II	3	A
SEM.	3.25	6	6	SEM.	3.83	18	18
CUM.	3.55	44	44	CUM.	3.72	98	98
INDEX	ATTEMPTED	EARNED	POINTS	INDEX	ATTEMPTED	EARNED	POINTS

A CUMULATIVE GRADE POINT AVERAGE OF 2.00 IS REQUIRED FOR GRADUATION.

NOT VALID WITHOUT SEAL

ISSUED ON July 11, 2018

REGISTRAR

S. Sangob Kongka
 (Mr. SANGOB KONGKA)



**KING MONGKUT'S UNIVERSITY OF TECHNOLOGY NORTH BANGKOK
BANGKOK THAILAND**

**OFFICIAL TRANSCRIPT OF RECORDS
FACULTY OF ARCHITECTURE AND DESIGN**

RECORD NO 56-110216-1011-4 **NAME** Miss SIRINART KLUMDOUNG

COURSE NO.	COURSE TITLES	CRD.	GRD.	COURSE NO.	COURSE TITLES	CRD.	GRD.	
2 nd SEMESTER 2015				1 st SEMESTER 2017				
110213121	ARCHITECTURAL DESIGN V	3	A	110213124	ARCHITECTURAL DESIGN VIII	4	A	
110213138	BUILDING RENOVATION	3	A	110213126	THESIS IN ARCH PREPARATION	3	A	
110213150	ARCHITECTURE CONCEPTS	3	A	110213240	COMPUTER GRAPHICS II	3	B+	
110213156	INTRO TO COST ESTIMATION	3	A	110213241	SEMINAR IN ARCHITECTURE	3	A	
110213239	COMPUTER FOR ARCHITECTURE	3	A	SEM.	3.88	13	13	50.5
110213261	URBAN & ARCH CONSERVATION	3	A	CUM.	3.75	168	168	631.5
SEM.	4.00	18	18	72.0	INDEX	ATTEMPTED	EARNED	POINTS
CUM.	3.76	116	116	437.0	2 nd SEMESTER 2017			
INDEX	ATTEMPTED	EARNED	POINTS	110213127	THESIS IN ARCHITECTURAL	9	A	
1 st SEMESTER 2016				SEM.	4.00	9	9	36.0
110213122	ARCHITECTURAL DESIGN VI	4	A	CUM.	3.77	177	177	667.5
110213125	ARCHITECTURAL PROGRAMMING	3	A	INDEX	ATTEMPTED	EARNED	POINTS	
110213132	CONSTRUCTION TECHNOLOGY II	3	C+	COURSE REQUIREMENTS COMPLETED				
110213147	LANDSCAPE ARCHITECTURE	3	A					
110213151	SITE PLANNING	3	B+					
110213155	ENERGY CONSERV IN BUILDING	3	B+					
SEM.	3.60	19	19					
CUM.	3.74	135	135					
INDEX	ATTEMPTED	EARNED	POINTS					
2 nd SEMESTER 2016								
110213123	ARCHITECTURAL DESIGN VII	4	A					
110213152	INTRO TO CITY PLANNING	3	A					
110213157	PROGRAM ANALYSIS	3	A					
110213158	PROFESSIONAL PRACTICE	3	B+					
110213243	CONSTRUCTION MANAGEMENT	3	B+					
110213269	SUSTAINABLE ARCHITECTURE	3	B+					
SEM.	3.76	19	19					
CUM.	3.74	154	154					
INDEX	ATTEMPTED	EARNED	POINTS					
3 rd SEMESTER 2016								
110213135	TRAINING	1	A					
SEM.	4.00	1	1					
CUM.	3.74	155	155					
INDEX	ATTEMPTED	EARNED	POINTS					

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REGISTRAR

S. Sangob Kongka
(Mr. SANGOB KONGKA)