SELECTED WORKS

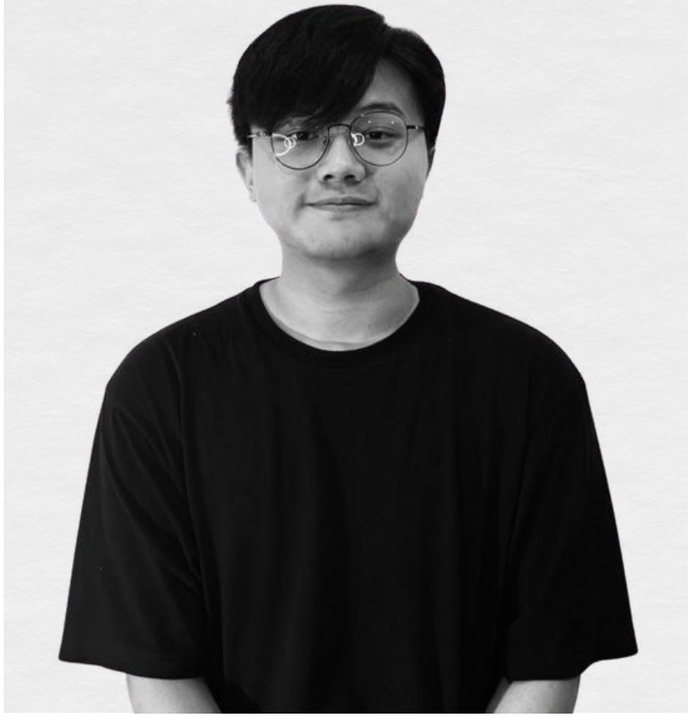
2020
2025

ARCHITECTURE
INTERIOR

PORTFOLIO

JASON
MICHKAEL

Hello.



architecture & interior
portfolio.

JASON MICHKAEL
jason310502@gmail.com

This portfolio represents my **ongoing journey** in architecture and interior design, combining academic foundations with professional experience. It features selected projects from my four-year Architecture degree at Universitas Sumatera Utara, along with works developed during my first year of professional practice in the interior design industry.

PROFILE

Home
60226 - Surabaya, Indonesia

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Linkedin
https://www.linkedin.com/in/jasonnnm/

Behance
https://www.behance.net/jasonmichkael

HONORS & AWARDS

2024 • **1ST Final Best Project Studio**
Faculty of Engineering, Department of Architecture, Universitas Sumatera Utara

2024 • **Top 13 National Thesis of the Year | Architect Regional Council Asia (ARCASIA)**
Ikatan Arsitek Indonesia (IAI), Asosiasi Pendidikan Tinggi Arsitektur Indonesia (APTARI)

2022 • **People Choice Winner**
Platinum Architectural Design Competition (PADC) by Platinum Ceramics

LANGUAGES

Bahasa Indonesia | Native
English | Intermediate
Mandarin | Intermediate

ABOUT

Architect with a strong passion for spatial and interior design, specializing in 3D modelling and rendering. Experienced in handling architectural and interior projects from concept to site execution, with a keen attention to detail and visual quality. Recognized through several national design awards and active involvement in collaborative teams and professional environments.

EDUCATION

2020 - 2024 • **Universitas Sumatera Utara**
Bachelor's degree in Architecture | S.Ars
School of Architecture
Kota Medan, Sumatera Utara, Indonesia

WORK AND INTERNSHIP EXPERIENCE

• **HOHM Studio** **| Work from Office**
Interior Designer — October 2024 - Present
Surabaya, Jawa Timur
- Developed interior design concepts from schematic to final visualization
- Modeled and rendered realistic 3D visuals aligned with project intent and client needs
- Collaborated with architects to integrate architectural and interior concepts
- Prepared detailed layouts, furniture plans, and material specifications
- Conducted site visits for progress review, coordination, and ensuring design accuracy during implementation
- Researched and selected suitable materials and finishes
- Participated in content creation and firm's social media presence, showcasing design processes and completed works

• **PT. Merek Indah Lestari - Taman Simalem Resort** **| Hybrid**
Assistant Project Director — August 2023 - January 2024
Kecamatan Merek, Sumatera Utara, Indonesia
- Led a 6-member team for task allocation and design creation
- Designed a resort to meet owner's target market and functionality goals
- Produced architectural drawings & visualizations with appropriate materials
- Developed presentation materials to attract visitors and investors
- Ensured design compliance with environmental and forestry regulations

• **Kera Design Studio** **| Work from Office**
Drafter and 3d Visualizer Internship — February 2022 - November 2022
Kota Medan, Sumatera Utara, Indonesia
- Drafted architectural and interior drawings, including furniture, layouts, elevations, sections, and MEP-CCTV details
- Researched and cataloged materials, finishes, and installation methods
- Produced interior render visualizations aligned with the firm's design standards.
- Conducted site surveys and measured existing conditions

SKILLS & SOFTWARES

Drafting | 3D Modelling

Autocad · Revit · Sketchup · 3ds Max

Visualization | Rendering

V-ray · Enscape · Lumion · Twinmotion · D5 Render

Graphic Presentation | Editing

Adobe Photoshop · Adobe Illustrator · Adobe Indesign · Adobe Lightroom · Procreate

Microsoft Power Point · Canva

Soft Skills

- Time Management
- Flexibility
- Detail Oriented
- Networking
- Communication
- Responsibility
- Organised
- Multi-Tasking
- Critical Thinking
- Fast Learner
- Focused
- Teamwork
- Leadership
- Creativity
- Public Speaking

PUBLICATIONS

2024 • **Building for tomorrow: A green building approach to children and youth activity center in Medan City**
Edp Sciences | E3S Web of Conferences

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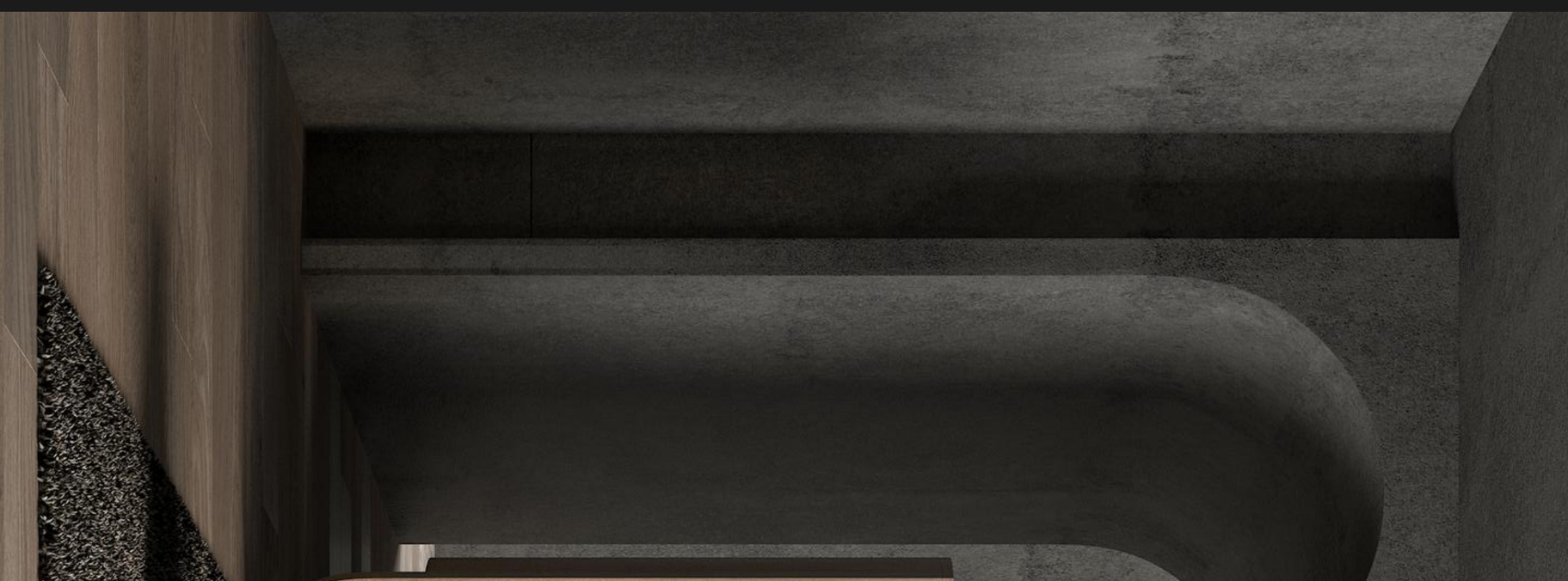
work & internship project



01 Work & Intership Project
House F | HOHM Studio

Used Programs:

Sketchup
3D Modelling

V-Ray
Rendering

Adobe Photoshop
Photo Editing

01 | House F

Interior Project

Project : Residential
Location : Denpasar, Bali, Indonesia
Year : 2025

3 Sunken Living Room

01 Work & Intership Project

House F | HOHM Studio

01 | Work & Intership Project

Villa Rice | HOHM Studio

Used Programs:

Sketchup
3D Modelling

V-Ray
Rendering

Adobe Photoshop
Photo Editing

02 | Villa Rice

Interior Project

Project : Residential
Location : Canggu, Bali, Indonesia
Year : 2025

01 Work & Intership Project

Villa Rice | HOHM Studio

01 Work & Intership Project

Villa Rice | HOHM Studio

01 | Work & Intership Project
Swiss-Belhotel | HOHM Studio

Used Programs:

Sketchup
3D Modelling

V-Ray
Rendering

Adobe Photoshop
Photo Editing

03 | Swiss-Belhotel

Interior Project

Project : Hospitality (Commercial)
Location : Tarakan, Kalimantan Utara, Indonesia
Year : 2025

01 Work & Intership Project

Swiss-Belhotel | HOHM Studio

01 | Work & Intership Project

E House | HOHM Studio

Used Programs:

Sketchup
3D Modelling

V-Ray
Rendering

Adobe Photoshop
Photo Editing

04 | E House

Interior Project

Project : Residential
Location : Surabaya, Indonesia
Year : 2025


CHANEL

01 Work & Intership Project

E House | HOHM Studio

01 | Work & Intership Project
R House | HOHM Studio

Used Programs:

Sketchup
3D Modelling

V-Ray
Rendering

Adobe Photoshop
Photo Editing

05 | R House

Interior Project

Project : Residential
Location : Surabaya, Indonesia
Year : 2025

Used Programs:

Sketchup
3D Modelling

V-Ray
Rendering

Adobe Photoshop
Photo Editing

06 | Xingfa Aluminium

Interior Project

Project : Office (Commercial)
Location : Surabaya | Bali, Indonesia
Year : 2024

01 Work & Intership Project

Xingfa Aluminium | HOHM Studio

01 Work & Intership Project

Xingfa Aluminium | HOHM Studio

Used Programs:

V-Ray
Rendering

Adobe Photoshop
Photo Editing

07 | Vi-Living

Freelance Rendering Project

Project Type : Residential
3D Modelling : Vi phan phan
Year : 2023

Used Programs:

V-Ray
Rendering

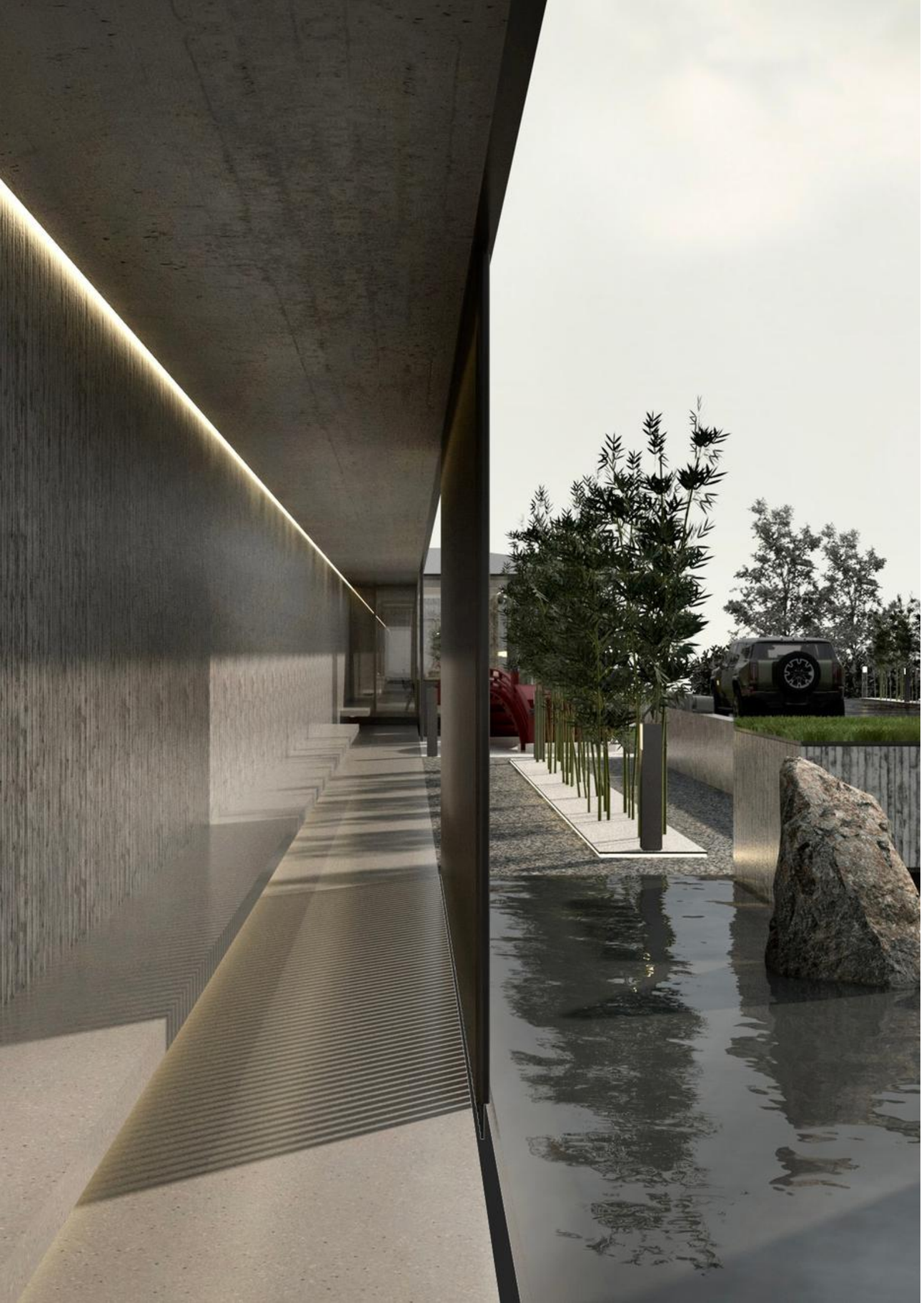
Adobe Photoshop
Photo Editing

08 | Osaka Nodigon Gate

Internship Rendering Project

Project : Residential Marketing Office
3D Modelling : Kera Design Studio
Location : Kota Medan, Sumatera Utara, Indonesia
Year : 2022


OSAKA NODIGON GATE



01 | Work & Intership Project
V-Kool | Kera Design Studio

Used Programs:

V-Ray
Rendering

Adobe Photoshop
Photo Editing

09 | V-Kool

Internship Rendering Project

Project : Commercial
3D Modelling : Kera Design Studio
Location : Kota Medan, Sumatera Utara, Indonesia
Year : 2022

01 Work & Intership Project

V-Kool | Kera Design Studio

43 Display & Waiting Romm


V-KOOL

01 | Work & Intership Project
Citraland Bagya City | Kera Design Studio

Used Programs:

V-Ray
Rendering

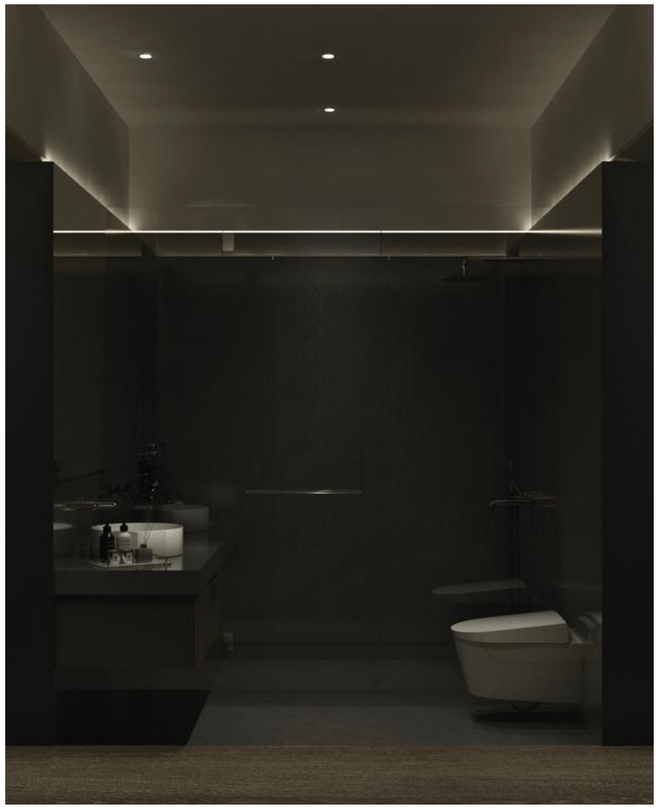
Adobe Photoshop
Photo Editing

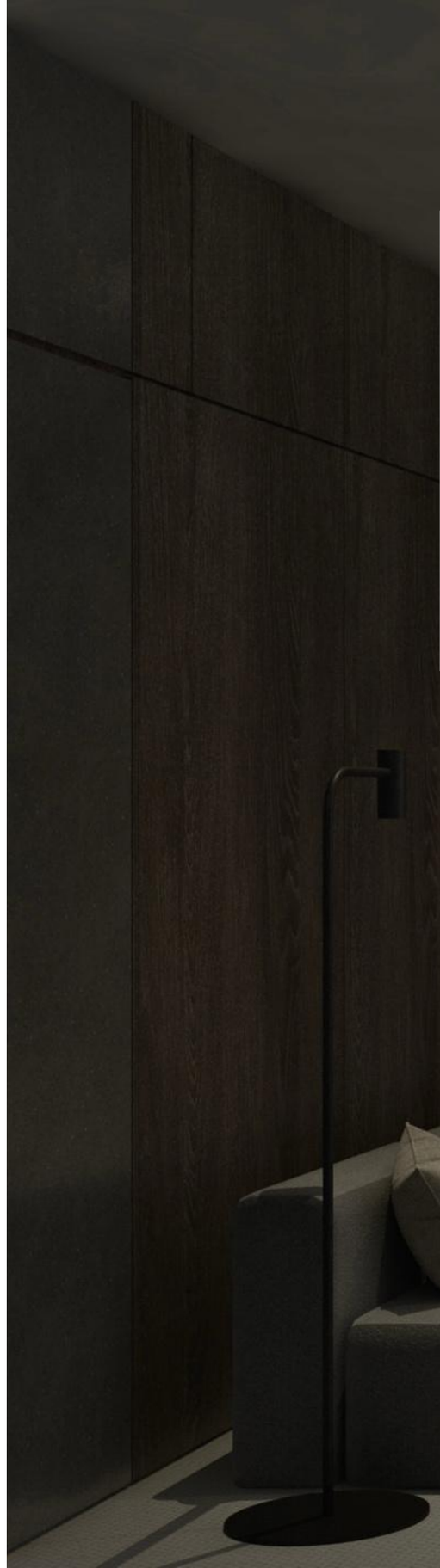
10 | Citraland Bagya City | W

Internship Rendering Project

Project : Residential
3D Modelling : Kera Design Studio
Location : Kota Medan, Sumatera Utara, Indonesia
Year : 2022


MORRIS
100
SAARINEN





01 | Work & Intership Project
Citraland Bagya City | Kera Design Studio

Used Programs:

V-Ray
Rendering

Adobe Photoshop
Photo Editing

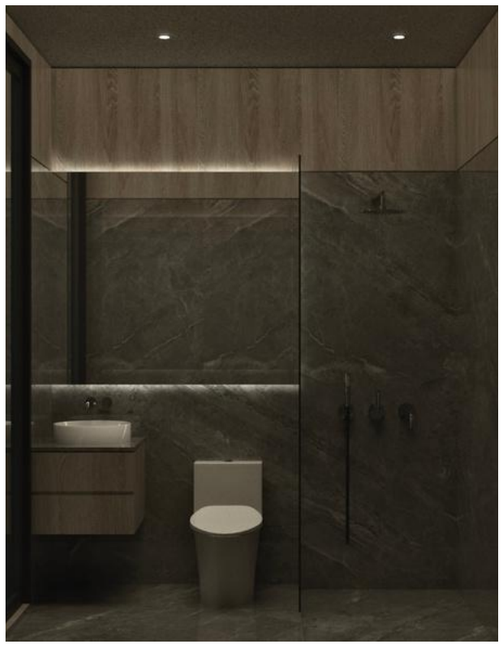
11 | Citraland Bagya City | E

Internship Rendering Project

Project : Residential
3D Modelling : Kera Design Studio
Location : Kota Medan, Sumatera Utara, Indonesia
Year : 2022

01 Work & Intership Project

Citraland Bagya City | Kera Design Studio



Dining Room and Living Room

academic projects


MYAC
MEDAN YOUTH ACTIVITY CENTER

Used Programs:

Sketchup
3D Modelling

Enscape
Rendering

Adobe Photoshop + Adobe Illustrator
Graphic Design

01 | Medan Youth Activity Center (MYAC)

Final Design Studio | Thesis

Project : Final Design Studio
Type : Educational
Year : 2024
Location : Kota Medan, Sumatera Utara, Indonesia
Area : 14.300 sq. m
Honors : - Top 13 National Thesis of The Year | **Architect Regional Council Asia (ARCASIA)**
- 1st Best Final Studio | **Department of Architecture Universitas Sumatera Utara**

Keywords : Youth | Passion & Skills | Green Building

Medan Youth Activity Center (MYAC) is designed to provide a comfortable and qualified environment for **teenagers** to improve their passion and skills.

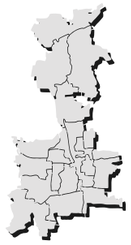
In this design, the **Green Building** approach was implemented to use eco-friendly architecture and minimize the damage of nature and the surrounding environment which refers to several variables that are found at **GBCI (Green Building Council Indonesia)** such as Appropriate Land Use, Energy Efficiency and Conservation, Water Conservation, Air Quality & Indoor Air Comfort, and Building Environmental Management which are also expected to minimize the problems on the surrounding environment and provide a positive effect on the area that will be designed.


Art & Craft
Center

Located in one of the central areas of Medan City which is directly bounded by Medan Timur Sub-district and Medan Kota Sub-district.

Indonesia

Sumatera Utara



Medan City

Location : Jl. Sutomo, Sidodadi Sub-District, Medan Perjuangan District, Medan City, Sumatera Utara, 20232
Road Level : Secondary Collector Road
Site Ownership : Government
Area : ± 1.43 Ha
Project Case : Youth Activity Center
Project Status : Fictional
Contour : Relatively Flat
Condition : Eks Gedung Nasional Medan and Shophouses

S

- Located in the city central which is directly adjacent to several different sub-districts, making this area crowded with people including teenagers
- Located in a commercial area (K-1) and close to many Public Service Facilities (SPU) such as educational facilities including universities, schools, etc.
- Close to some of the biggest shopping centers in Medan City, such as Cathay, Central Market, and close to several malls such as Center Point Mall and Medan Mall

W

- Because it is located in a commercial area (K-1) with high population density activities, this area is often congested
- The lack of a pedestrian way in this area creates congestion due to peoples activity in this area and coupled with vehicles parked in the center of the road, blocking traffic

O

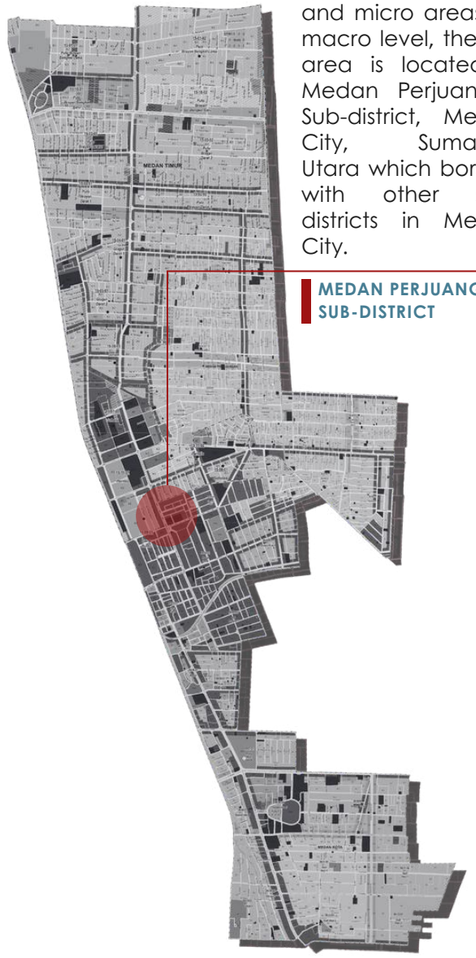
- Because it is located in a commercial area, it can open up opportunities for funding or other support for the youth activity center by cooperating with surrounding shops
- Commercial area can provide opportunities to develop entrepreneurial skills among teenagers, for example by organizing entrepreneurship-focused workshops or trainings

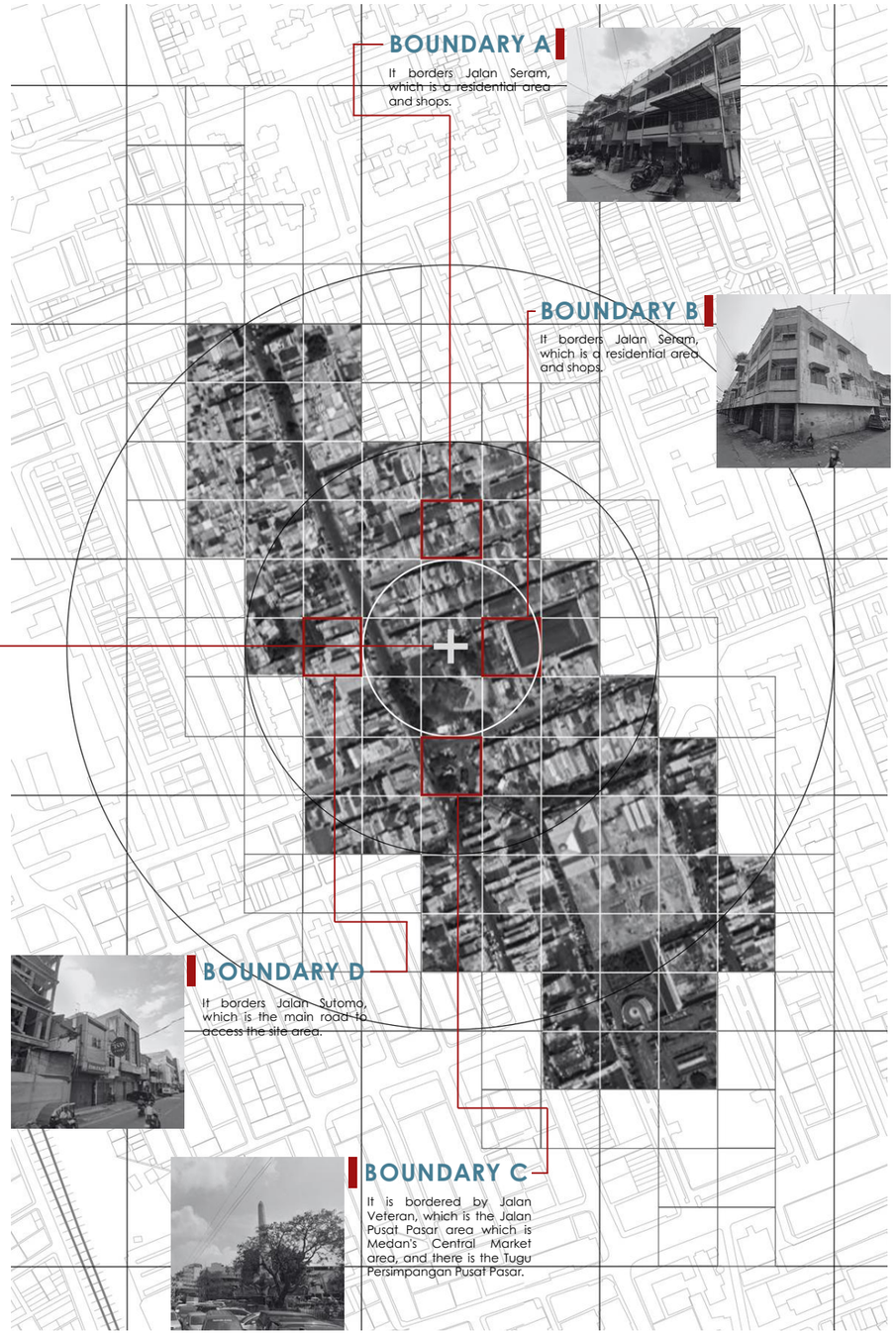
T

- The lack of pedestrian ways in this area which endangers pedestrians who are walking in this area which can cause minor and major accidents
- There are still many thugs in this area and also the lack of surveillance in this area, which has an impact on the number of cases of thieves, extortion, sexual harassment, and rape

This area boundaries are divided into two type, such as macro and micro areas. At macro level, the site area is located in Medan Perjuangan Sub-district, Medan City, Sumatera Utara which borders with other sub-districts in Medan City.

MEDAN PERJUANGAN SUB-DISTRICT



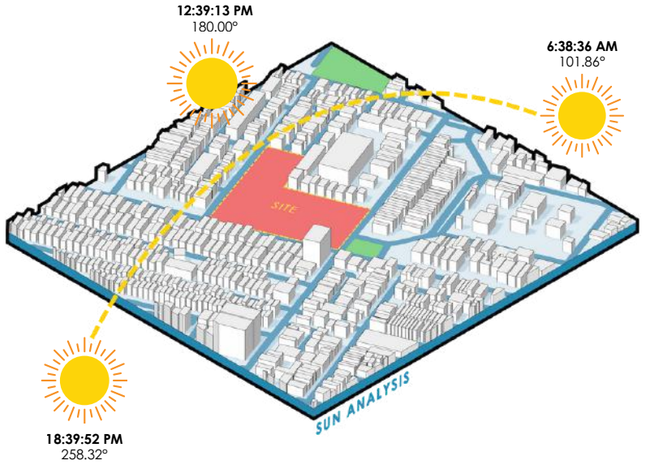


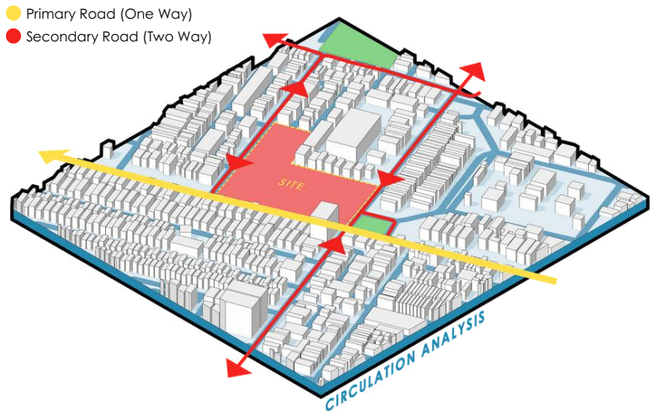
BOUNDARY A
It borders Jalan Seram, which is a residential area and shops.

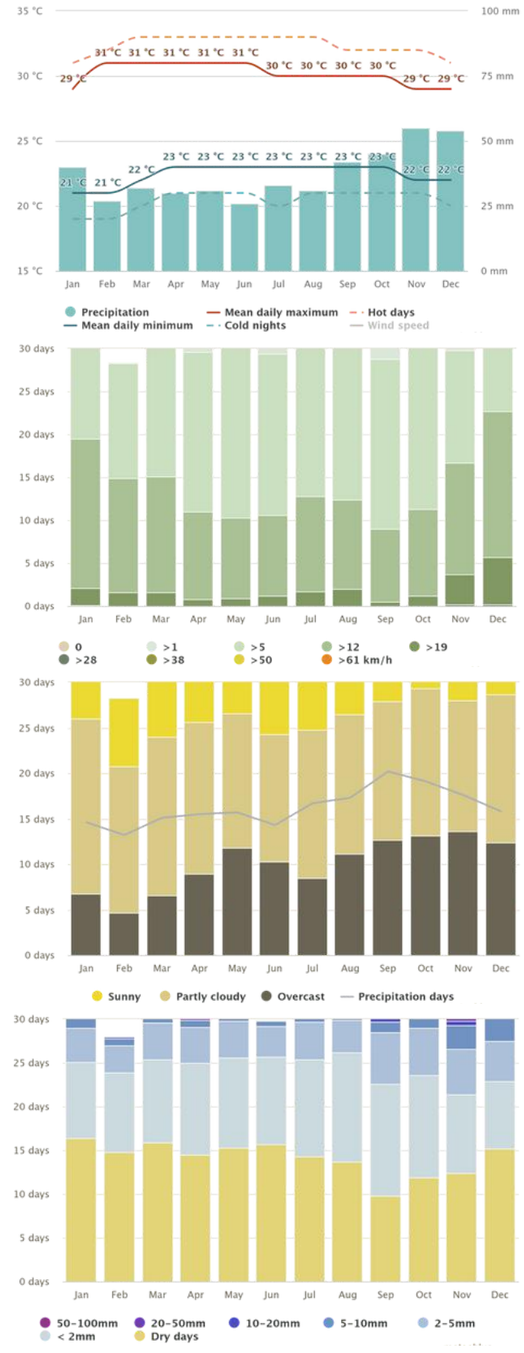
BOUNDARY B
It borders Jalan Seram, which is a residential area and shops.

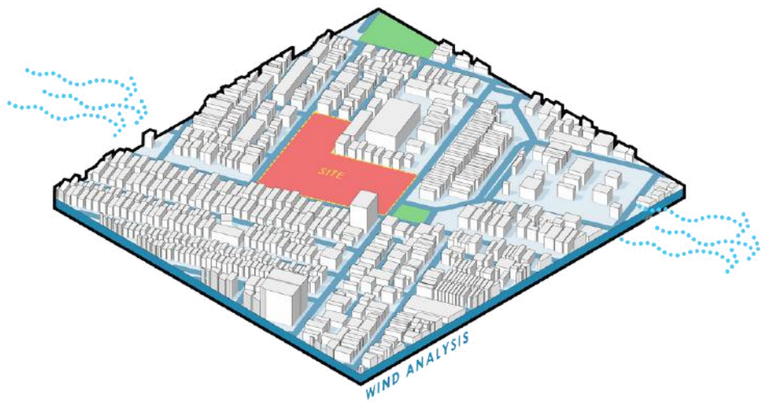
BOUNDARY D
It borders Jalan Sutomo, which is the main road to access the site area.

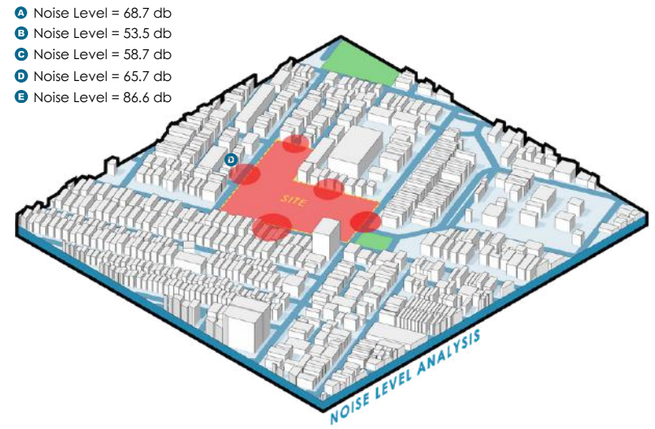
BOUNDARY C
It is bordered by Jalan Veteran, which is the Jalan Pusat Pasar area which is Medan's Central Market area, and there is the Tugu Persimpangan Pusat Pasar.

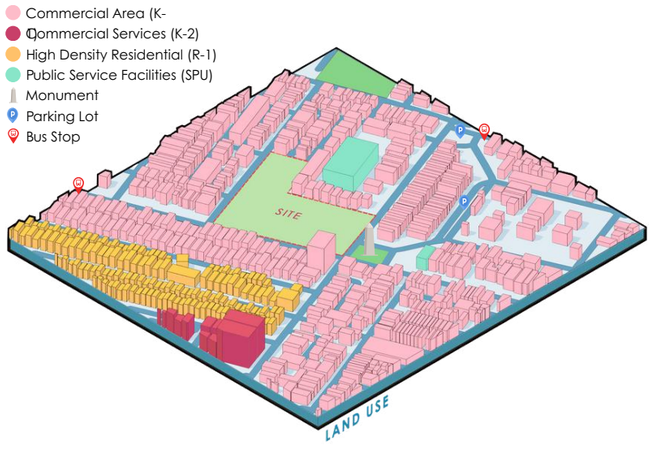

12:39:13 PM
180.00°
6:38:36 AM
101.86°
18:39:52 PM
258.32°
SITE
SUN ANALYSIS

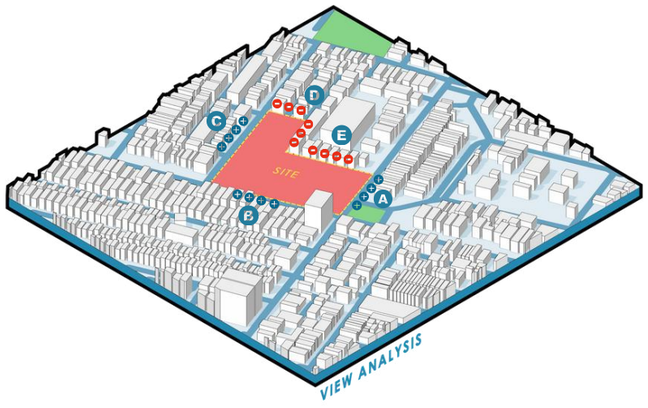

Primary Road (One Way)
Secondary Road (Two Way)
SITE
CIRCULATION ANALYSIS


35 °C
30 °C
25 °C
20 °C
15 °C
100 mm
75 mm
50 mm
25 mm
0 mm
Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
Precipitation
Mean daily maximum
Hot days
Mean daily minimum
Cold nights
Wind speed
30 days
25 days
20 days
15 days
10 days
5 days
0 days
0
>1
>5
>12
>19
>28
>38
>50
>61 km/h
Sunny
Partly cloudy
Overcast
Precipitation days
50–100mm
20–50mm
10–20mm
5–10mm
2–5mm
< 2mm
Dry days


SITE
WIND ANALYSIS

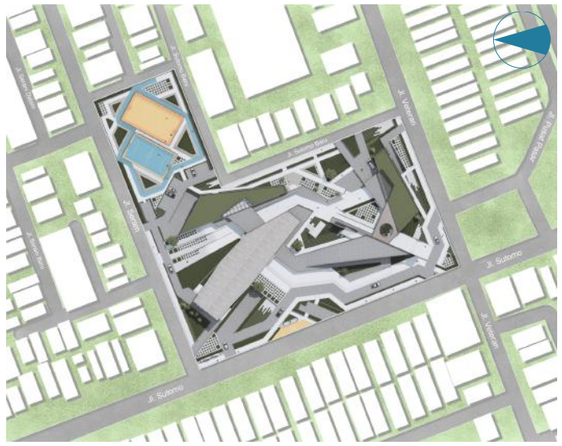

A Noise Level = 68.7 db
B Noise Level = 53.5 db
C Noise Level = 58.7 db
D Noise Level = 65.7 db
E Noise Level = 86.6 db
SITE
NOISE LEVEL ANALYSIS

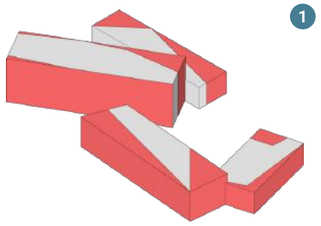

Commercial Area (K-
Commercial Services (K-2)
High Density Residential (R-1)
Public Service Facilities (SPU)
Monument
Parking Lot
Bus Stop
SITE
LAND USE

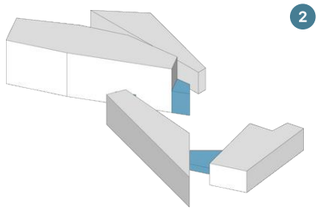

A
B
C
D
E
SITE
VIEW ANALYSIS

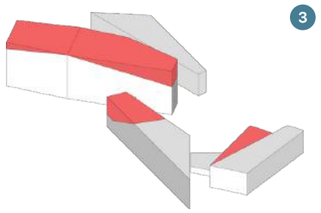
02 Academic Projects | Final Design Studio

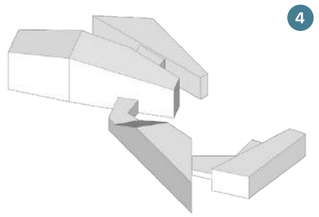
Medan Youth Activity Center (MYAC) | 2024

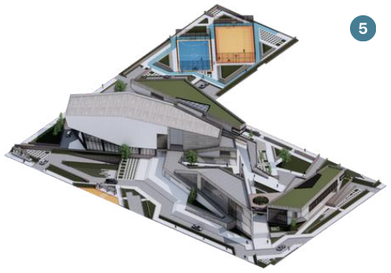










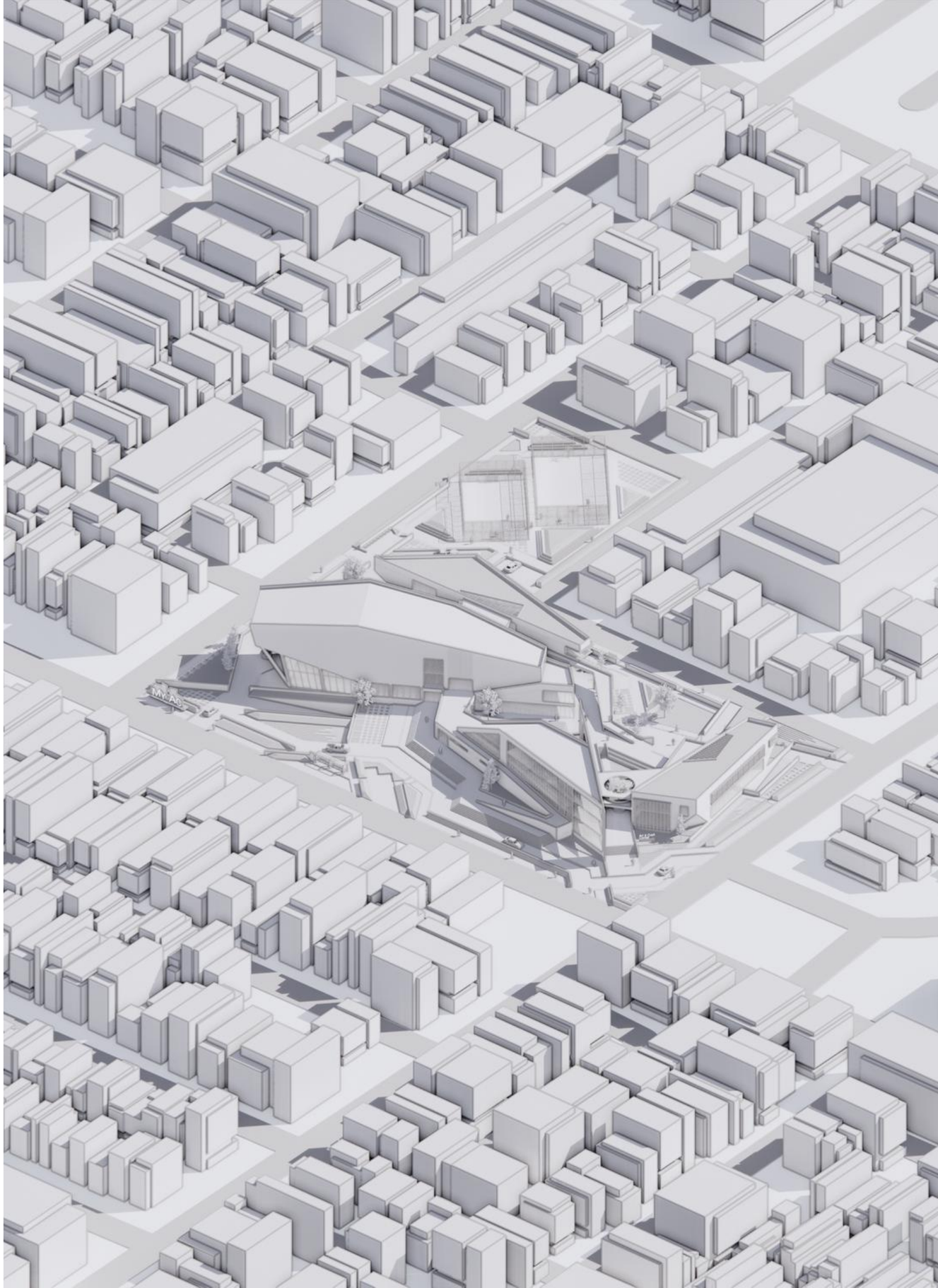


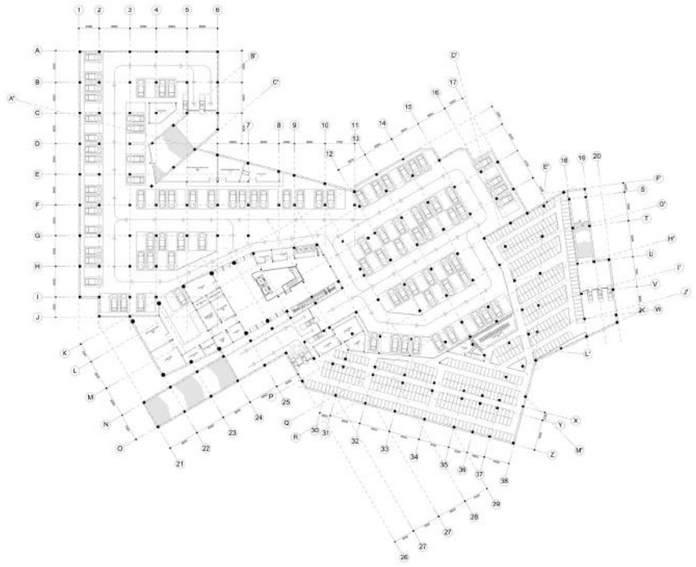
This building mass transformation uses **multi-mass building** concept that combines several building elements with different weights to optimize energy efficiency. These elements can be walls, roofs or windows designed to capture or radiate heat effectively.

The mass is designed with a **clustered composition** to create a **dynamic** and **flexible** impression so that teenagers as building users do not feel bored. The mass is designed to extend following the shape of the site by considering the site analysis that has been done before.

The arrangement of building masses with a **90** ° relationship order between building masses with a combination of orders of more than **90** ° will make the composition of **mass** and **space** more **dynamic**, and combined using a clustered arrangement typology that serves to group the functions of several buildings in one group.

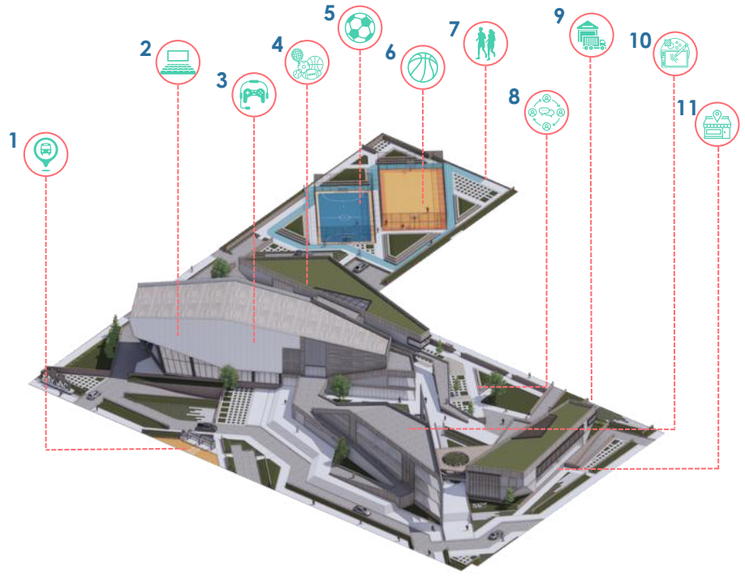
Substractive
Additive





Basement Floor Plan

2nd Floor Plan



1st Floor Plan

3rd Floor Plan

Generally, there are several functions designed in the Medan Youth Activity Center area, such as:

1. Shuttle Bus Station/Bus Stop
2. Multipurpose Hall
3. E-Sports Center
4. Sports Center and Fitness Center
5. Futsal Court
6. Basketball Court
7. Jogging Area
8. Communal Area
9. Loading Dock Area
10. Art and Craft Facilities
11. UMKM Area

Generally, circulation into the site is divided into 3, such as **pedestrian circulation, vehicle circulation, and service circulation**. The main access to the site is on Jalan Sutomo. Vehicle circulation is designed in only one area so that vehicles can enter from several areas to access the building according to their needs. For service circulation through Jalan Veteran located on the side of the site.

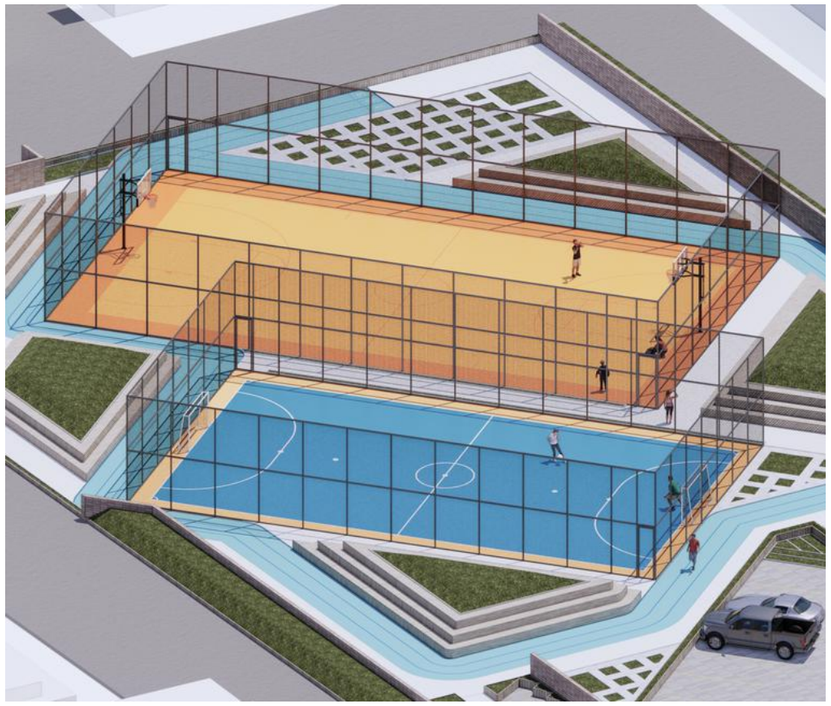
Pedestrian circulation is designed around the site because around the site is an area that is traversed by many pedestrians so it is designed with its own access comfortably and safely so as not to be disturbed by other circulation.

FRONT ELEVATION

BACK ELEVATION

RIGHT ELEVATION

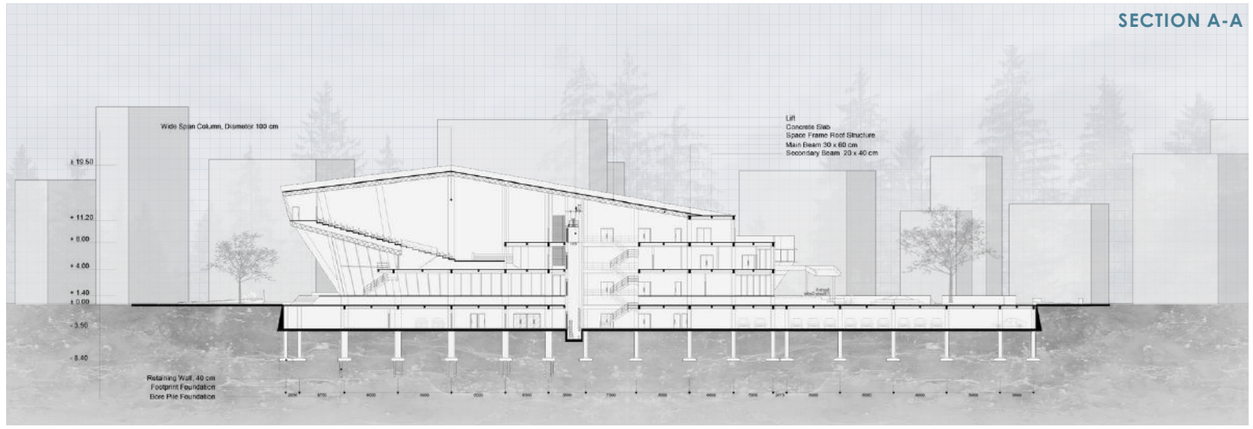
LEFT ELEVATION

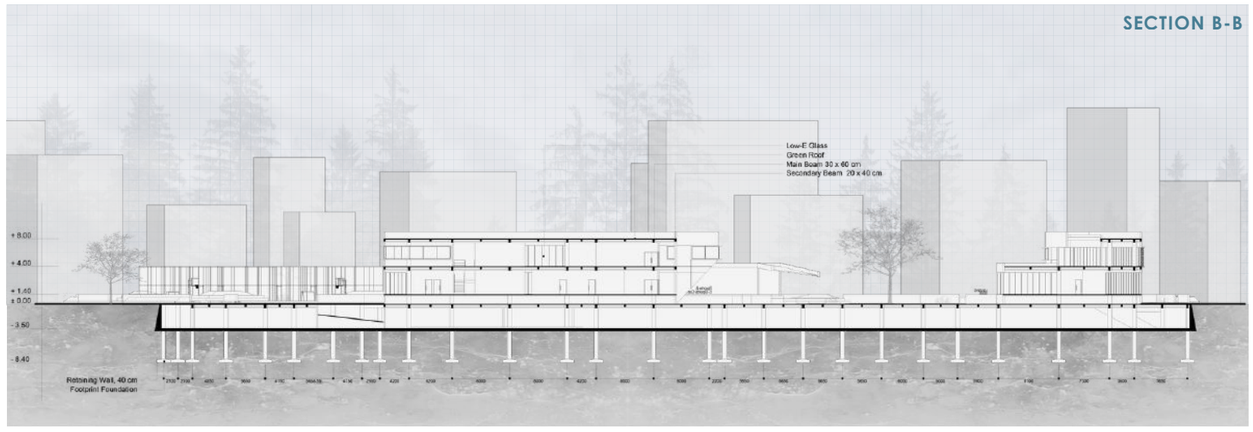


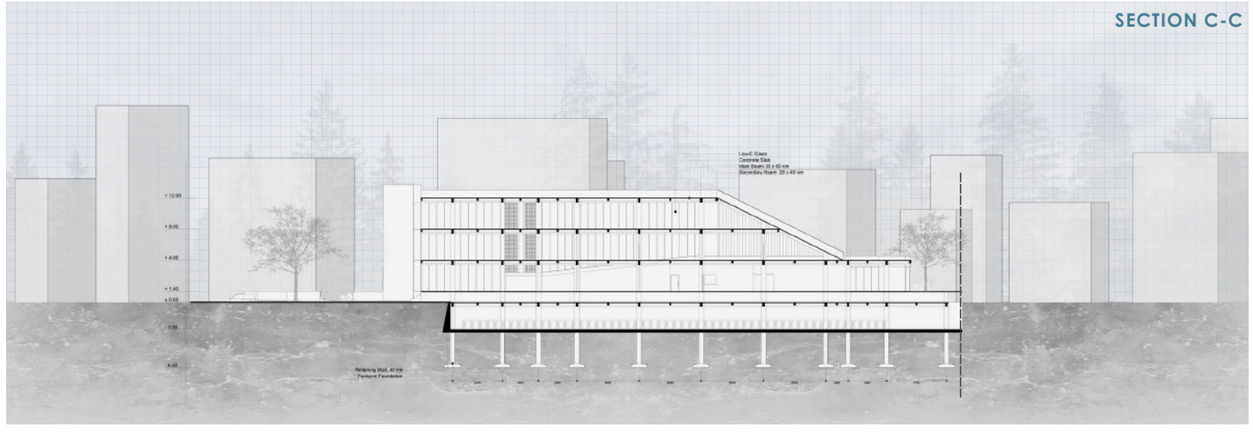
The orientation of the main building faces Jalan Sutomo which leads to the Southwest so as to maximize the **natural light** that enters to the building and avoid the inclusion of **excessive light** that come from the East and West sides of the building.

The availability of the shuttle bus area serves to make it easier for visitors who want to take the bus to easily reach the building, and the availability of pedestrian paths around the site serves for building users who want to cross around the site to be safer and more comfortable because around the site is an area that is mostly passed by pedestrians.

Art & Craft
Center







The outdoor area of this building is mostly designed as a green area combined with public open spaces in order to accommodate various youth activities such as jogging tracks, sports fields, communal areas, and others.

The use of **asymmetrical shapes** can create a dynamic and not monotonous impression so that building users can feel safe and comfortable when using this building. The parking area in this building uses a basement which is placed under the ground floor of the building, apart from the basement parking area there is also a sports field area that functions for users who only want to exercise so that it is close to the parking lot.

The vegetation pattern applied around the building forms a microclimate, is a pattern that will reduce solar radiation and contribute to O2 supply.

The use of CO2 absorbing tree plants in buildings such as, **Kerai Payung Tree** (Fellicium Decipiens) and **Kenanga Tree** (Canangium Odoratum) which functions as a CO2 absorber from vehicles passing around the site.

competitions

Used Programs:

Sketchup
3D Modelling

V-Ray
Rendering

Adobe Photoshop + Adobe Illustrator
Graphic Design

01 | 161 Apartment

Platinum Architectural Design Competition (PADC) 2022

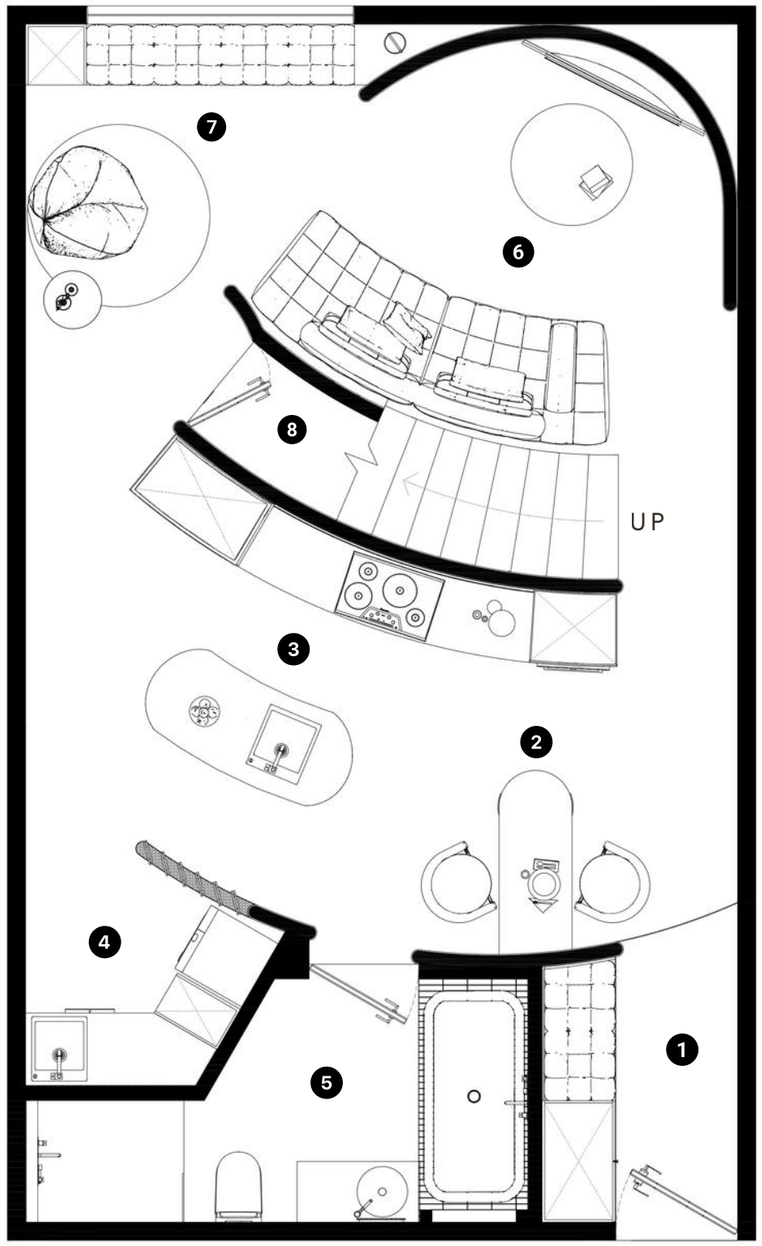
Project : Apartment Design Competition
Type : Residential
Year : 2022
Area : 60 sq. m
Honors : Winner of People Choices

Keywords : Golden Ratio | Curves | Minimalist | Functional Space

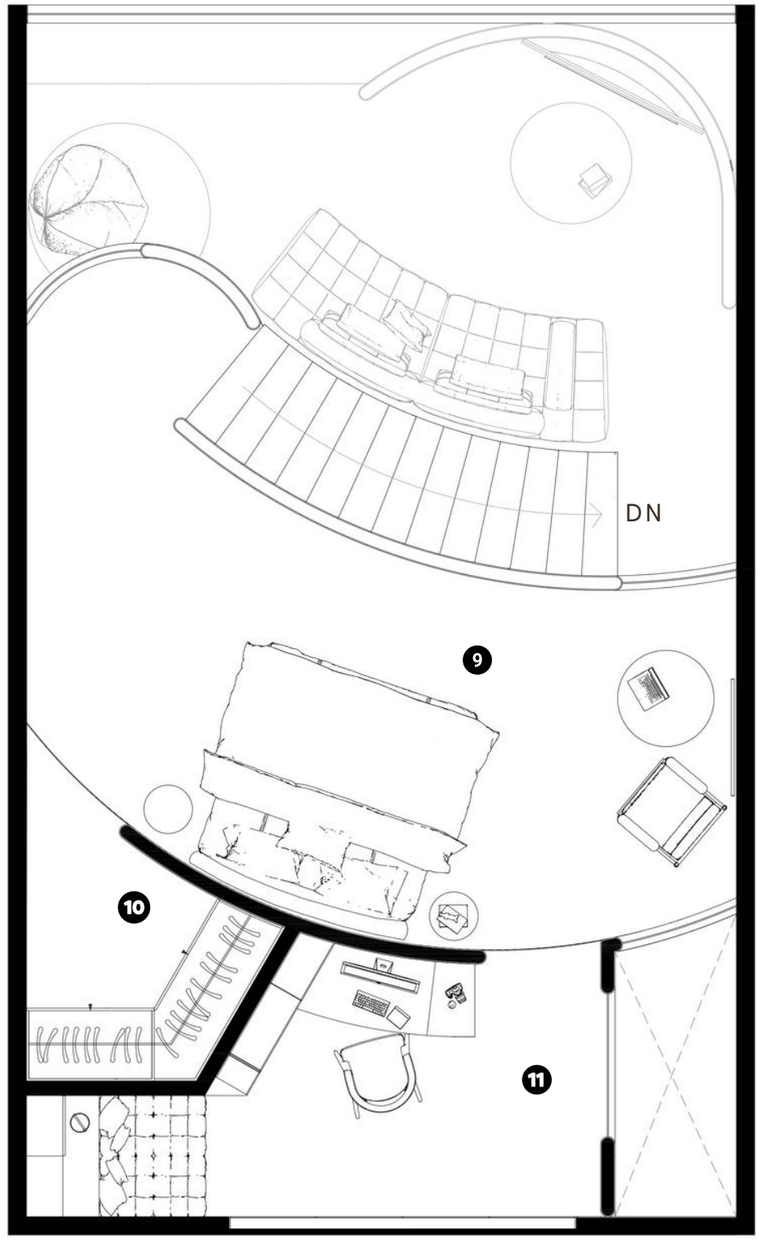
This design is based on the criteria of the space users, a couple who are unmarried and work as freelance designers, requiring a flexible and innovative workspace.

One of the main concepts in this design is based on the **'golden ratio'** pattern, which reflects the profession of the two residents as freelance designers who highly value composition and order. However, this order is combined with flexible and dynamic elements, illustrated by the use of **curved** walls and furniture.

Apart from emphasizing the concept in this design, it is also required to use tiles from **'Platinum Ceramics'**, with the usage, arrangement, and cutting of the tiles being left to the designer's discretion.



1st Floor Plan

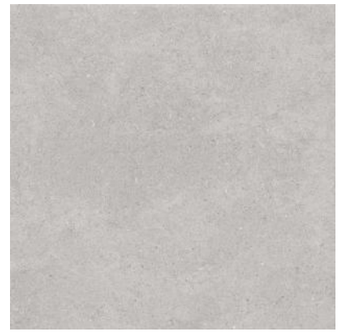


2nd Floor Plan

Description:
1. Foyer
2. Dining Area
3. Kitchen
4. Laundry
5. Bathroom
6. Living room
7. Window bay
8. Storage
9. Bedroom
10. Walk-in Closet
11. Working Area

The name **"161 Apartment"** for this project is based on the value **"1.61"**, which is derived from the calculation of the **golden ratio**. This ratio is known as a perfect composition, used since ancient times and believed to be the most visually pleasing composition.

Brescia Gray
40 x 40
Glossy | Floor



Luna Gray
50 x 50
Matte | Floor

Pantone
2330 U

Pantone
18-0601 Tpx
Charcoal Gray

This design provides several areas that can be used as workspaces, allowing the occupants to not be confined to a single space and giving them the freedom to move around and find new atmospheres and ideas, such as the window bay in the living room, the seating area in the bedroom, and a dedicated working area.

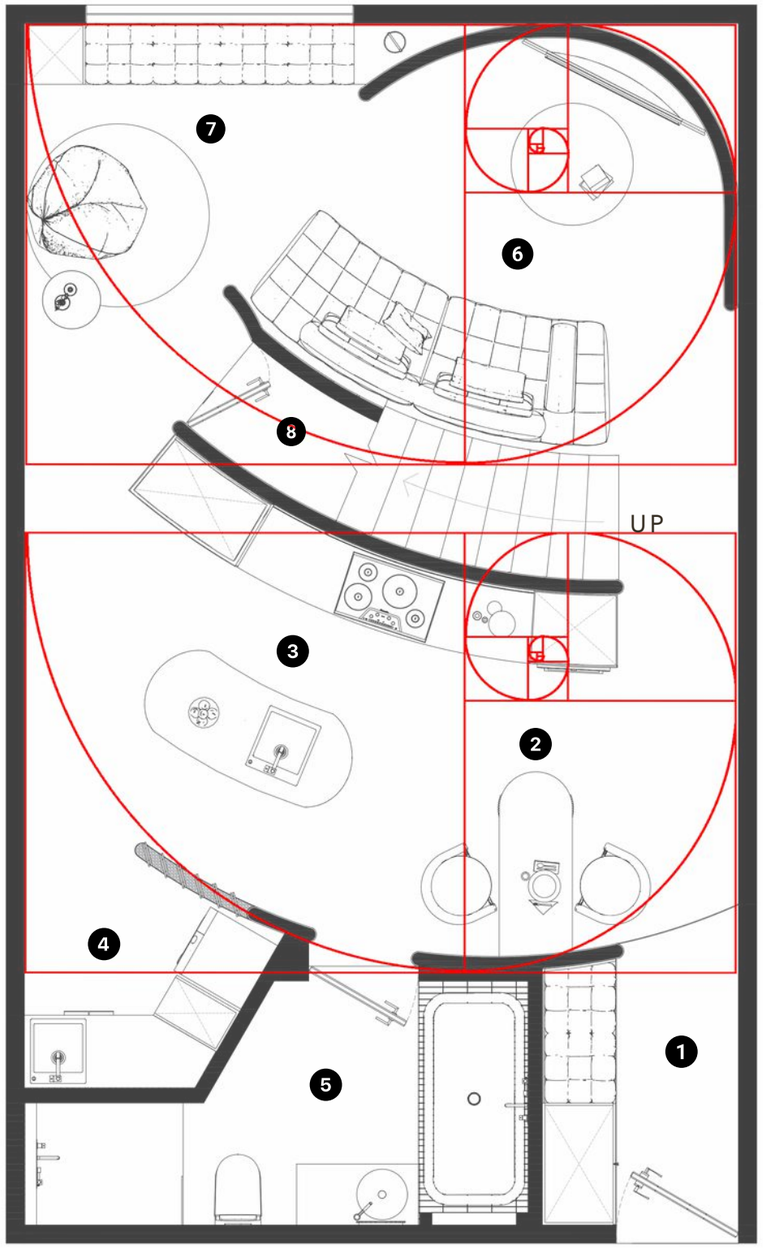
Additionally, the placement of these separate workspaces offers each occupant a private area to enjoy solitude.

Sierra Gray
60 x 60
Matte | Floor

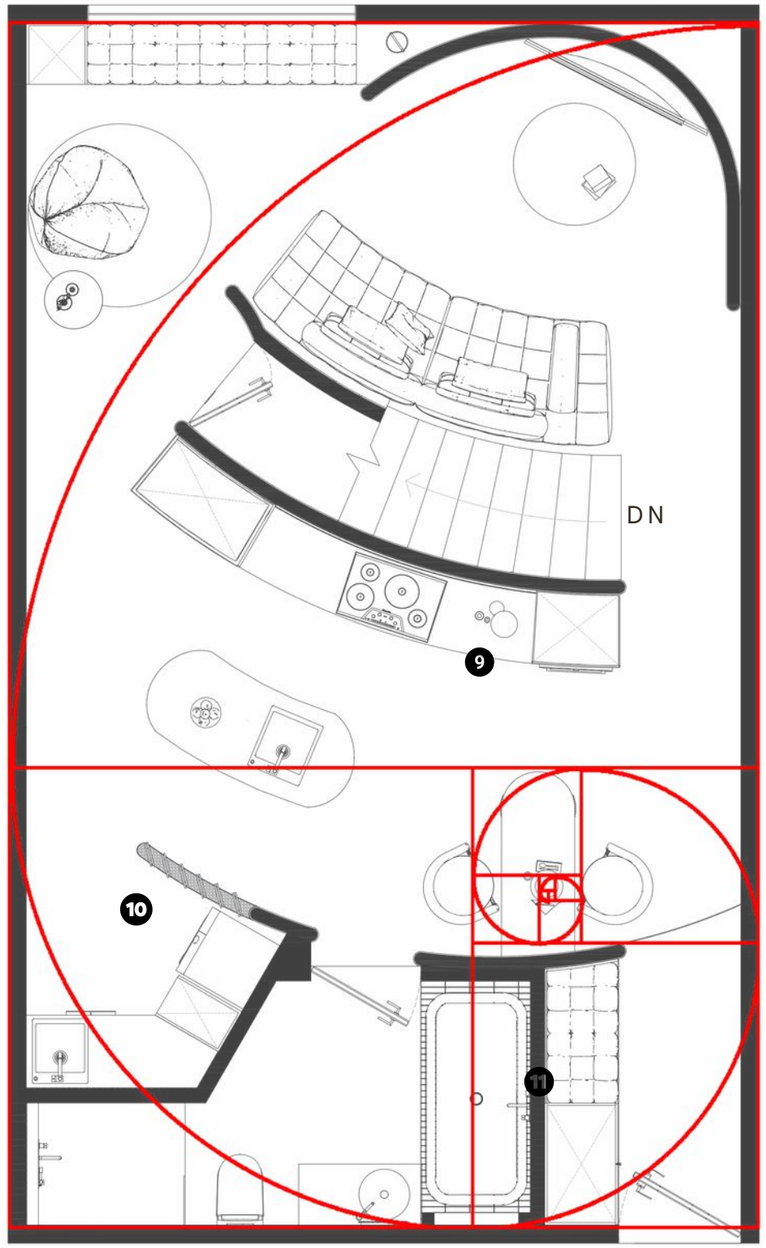
Hazel Brown
50 x 50
Glossy | Floor

Tekskam Textured Paint
NT Pasta Off
White

Wood



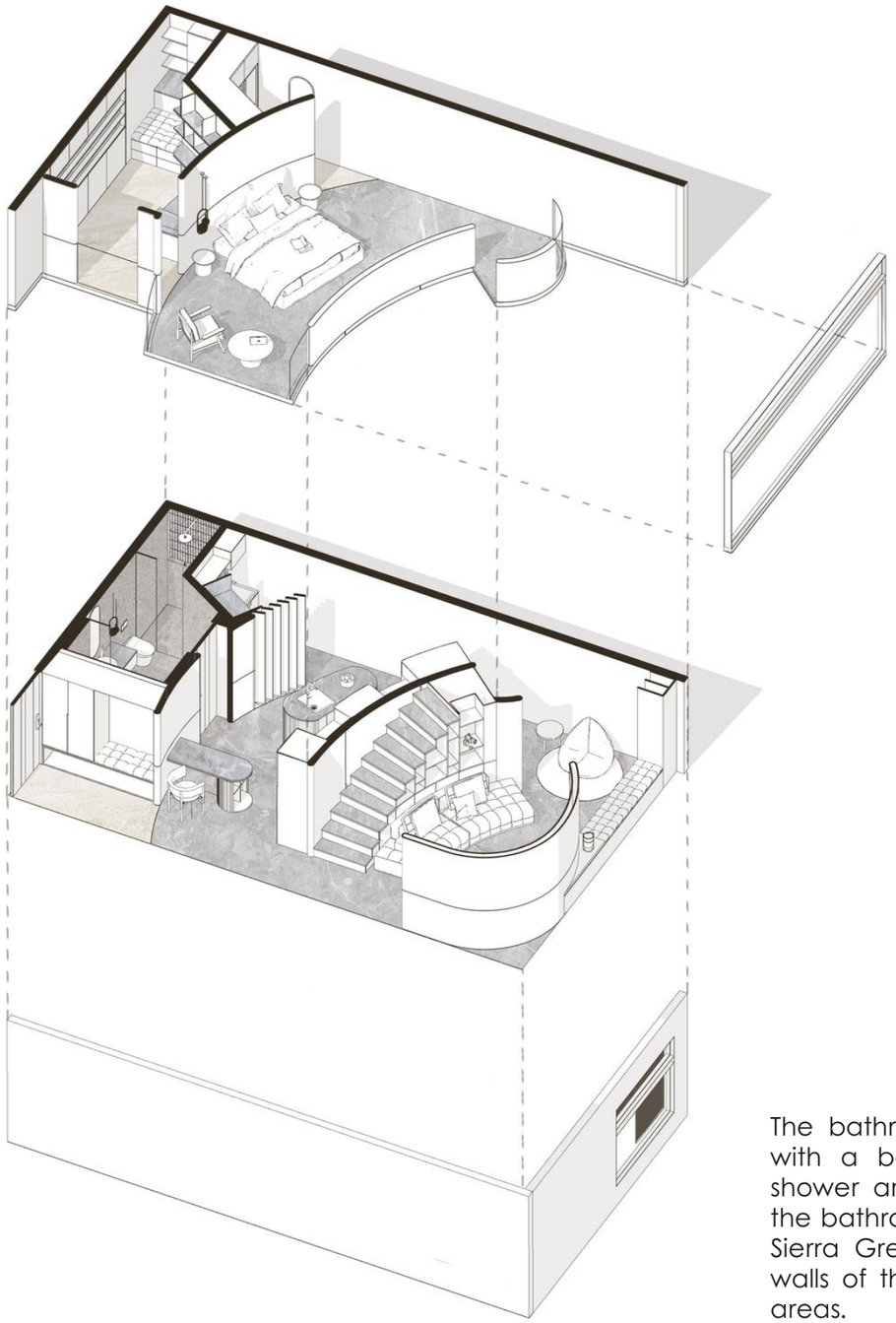
The placement of spaces and layout in this apartment are based on the golden ratio.



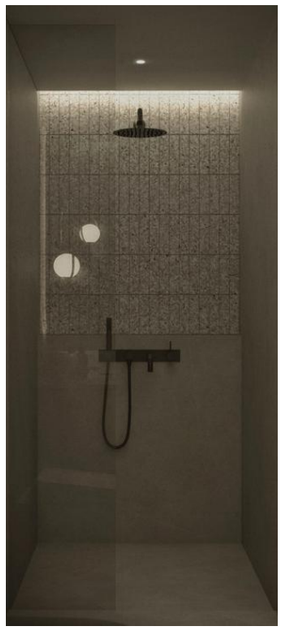
The use of curved forms in the TV area of the living room and the walls of the kitchen area.

03 Competitions

Platinum Architectural Design Competition (PADC) | 2022



The bathroom area is equipped with a bathtub, a sink, and a shower area. The key feature of the bathroom design is the use of Sierra Grey ceramic tiles on the walls of the bathtub and shower areas.



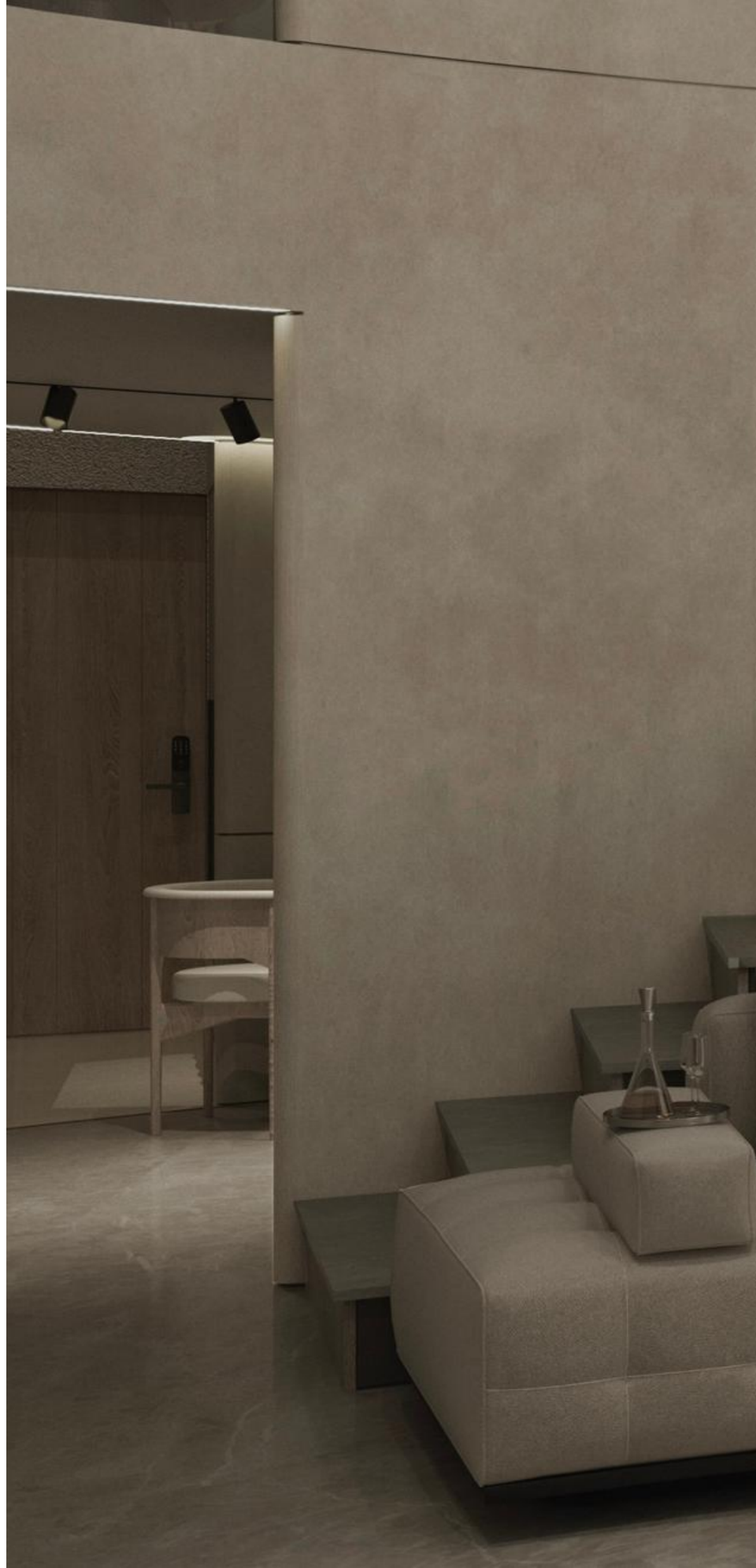
The foyer area, equipped with a shoe rack and a mirror, serves to connect the entrance area with the dining and kitchen areas. The use of hazel brown ceramic tiles on the foyer floor creates a warm impression, complemented by the use of wooden materials and paint in similar colors on the shoe rack.

03 Competitions

Platinum Architectural Design Competition (PADC) | 2022

The kitchen area is equipped with a kitchen set including a hood, and features space for a refrigerator and an oven on both sides. Additionally, there is a kitchen island and a dining area around the kitchen.

The use of Sierra Grey ceramics is a key feature on the kitchen backsplash, adding unique texture and patterns. This ceramic is also used in the laundry area and the bathroom.

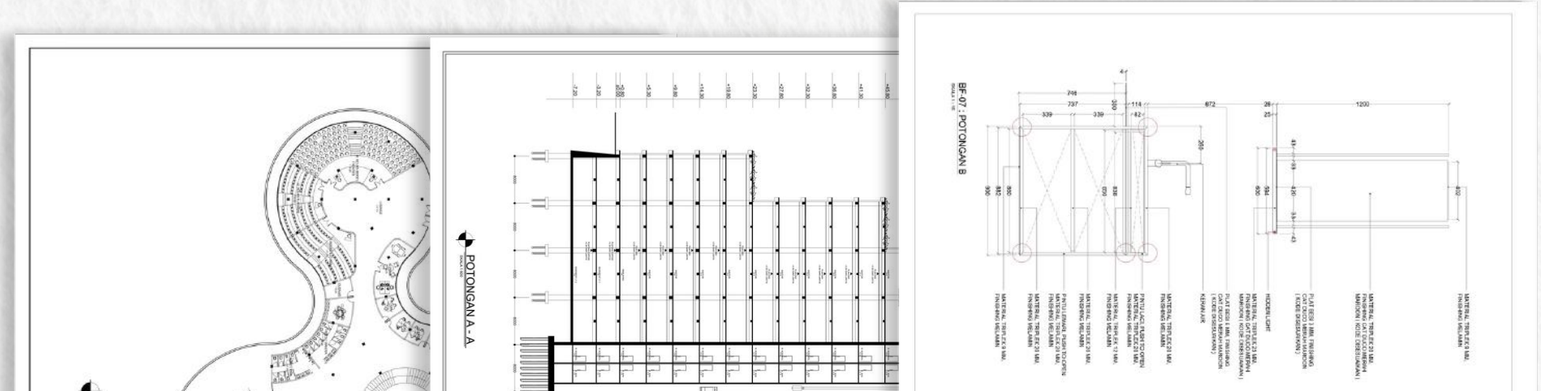


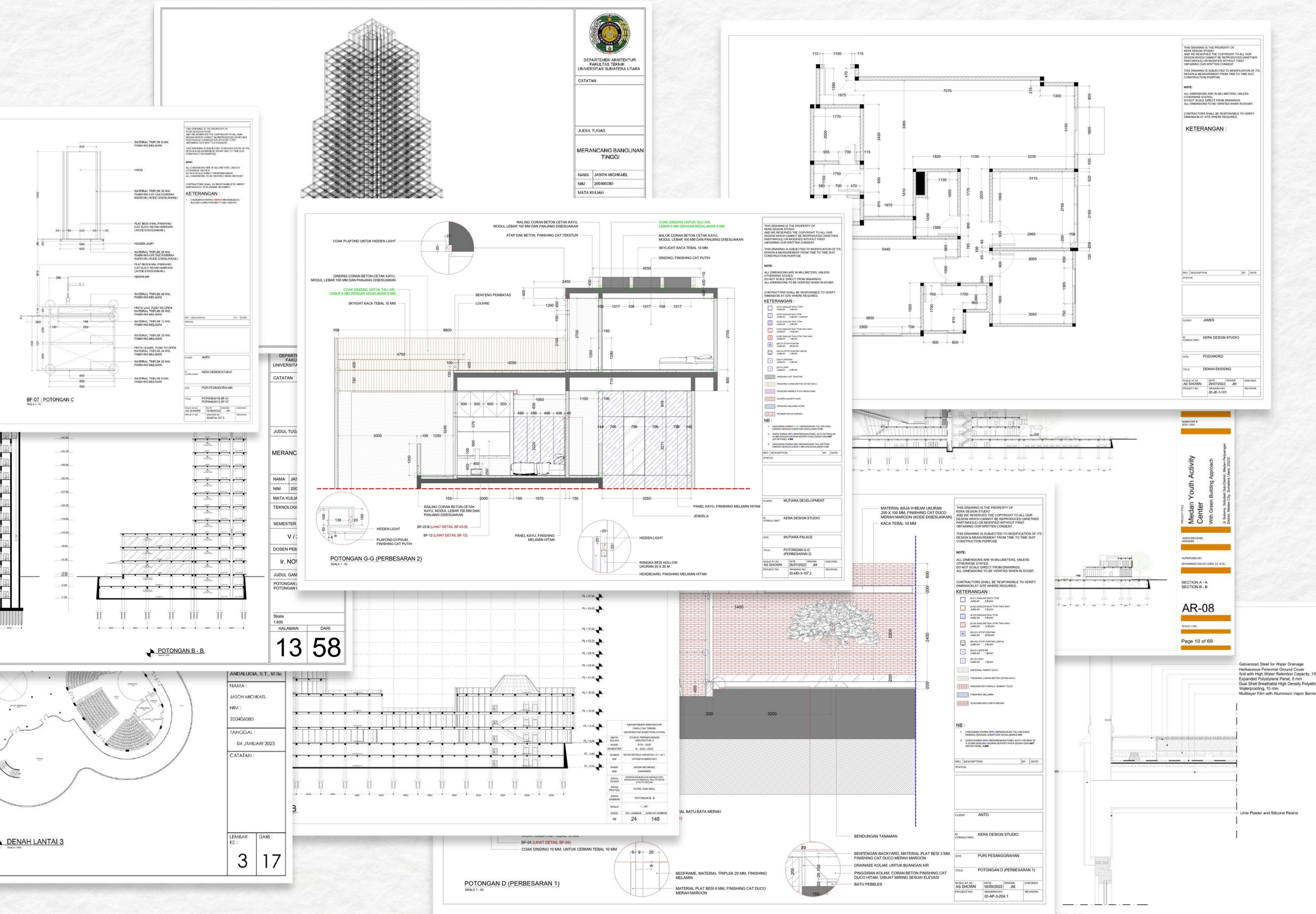

VA
SY
MM
ET
RY

In the mezzanine area, there is a bedroom connected to a walk-in closet and a working area. These three areas are separated by a curved wall at the back of the bed.

Most of the curved wall in this design features water ropes to enhance the aesthetic by aligning with specific furniture around the wall.

technical drawings




DEPARTEMEN ARSITEKTUR
FAKULTAS TEKNIK
UNIVERSITAS SUMATERA UTARA
CATATAN
JUDUL TUGAS
MERANCANG BANGUNAN TINGGI
NAMA
JASON MICHKAEL
NIM
200406080
MATA KULIAH
KETERANGAN :
BF-07 : POTONGAN C
POTONGAN G-G (PERBESARAN 2)
POTONGAN B - B
HALAMAN
DARI
13
58
DENAH LANTAI 3
3
17
POTONGAN D (PERBESARAN 1)
Medan Youth Activity Center
With Green Building Approach
SECTION A - A
SECTION B - B
AR-08
Page 10 of 69

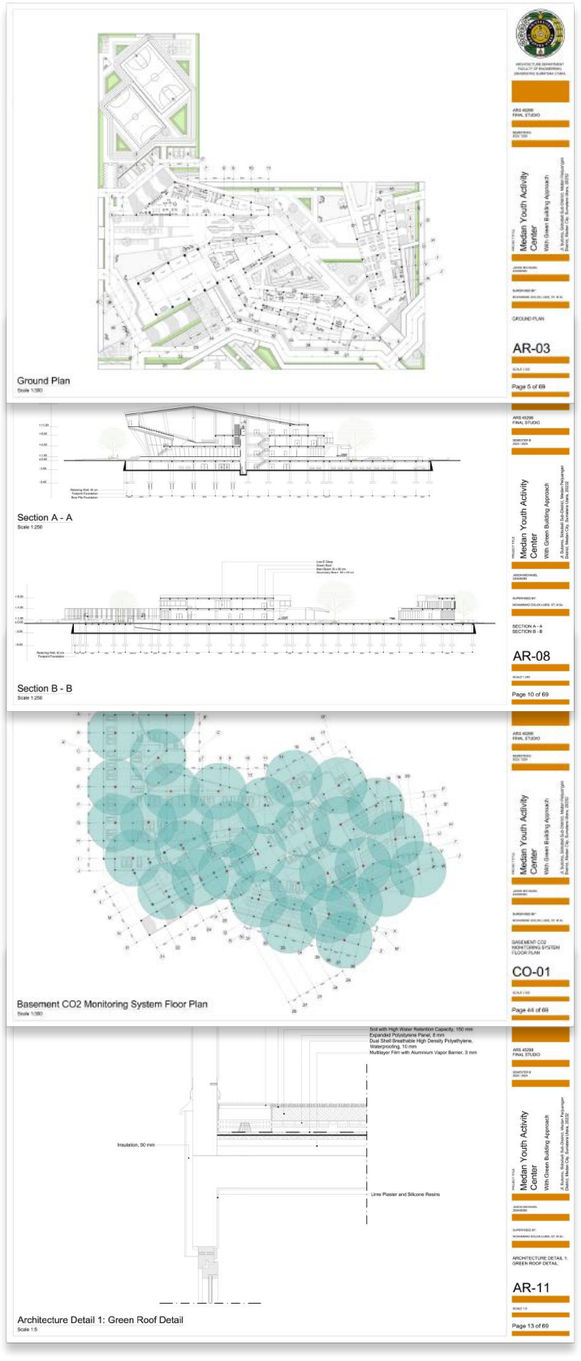
Used Programs:

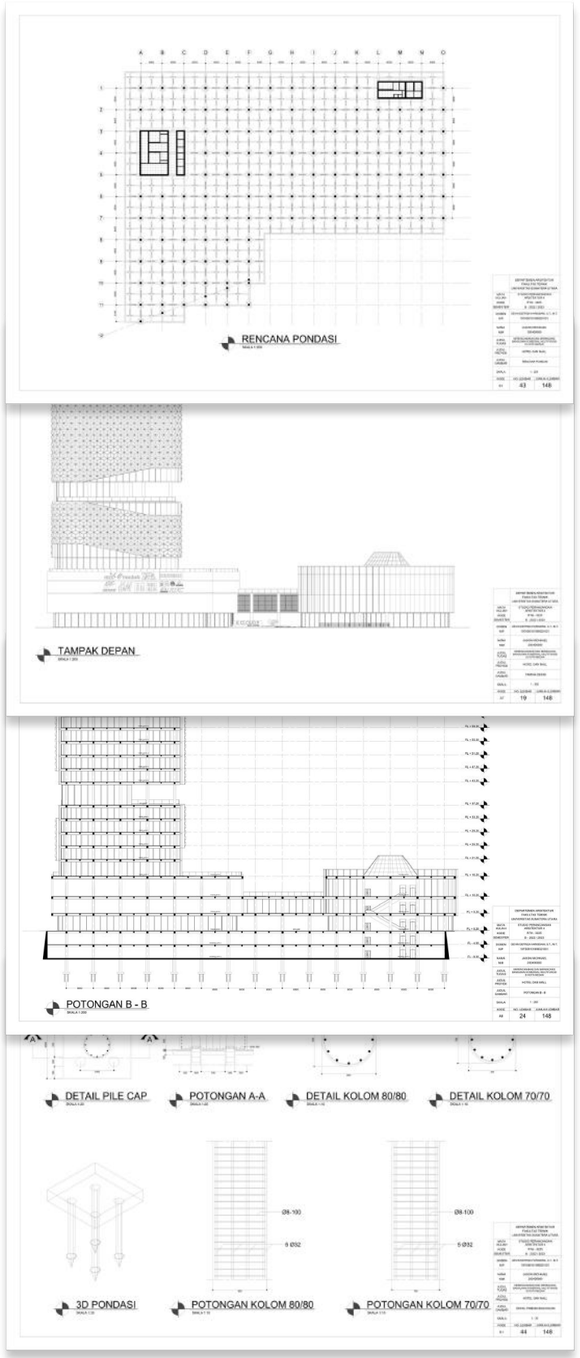
Autocad
2D Modelling

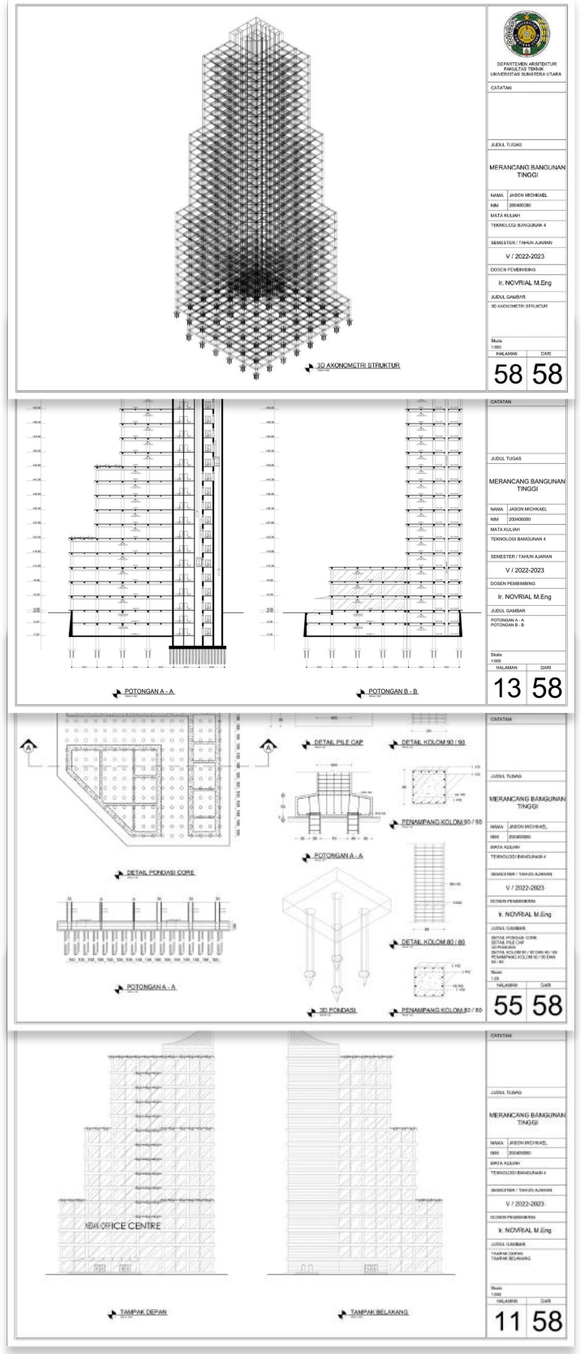
01 | Academic Projects Technical Drawings

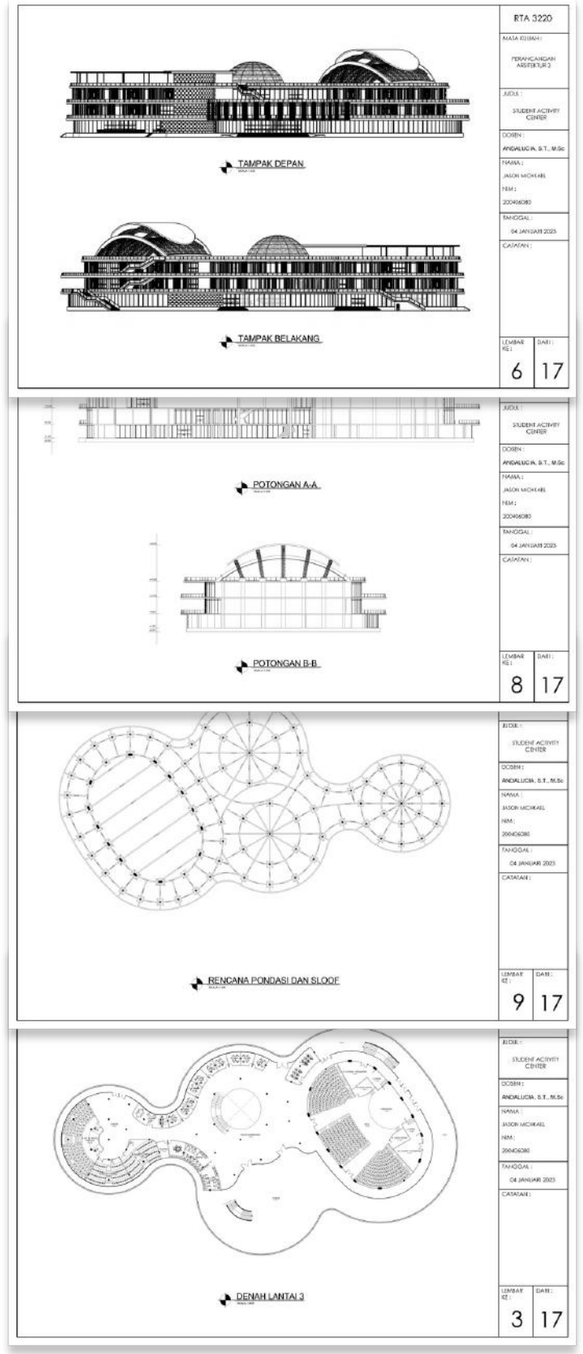
Design Studio Project

Project : Design Studio Project
Year : 2020 - 2024
Location : Kota Medan, Sumatera Utara, Indonesia




RENCANA PONDASI
TAMPAK DEPAN
POTONGAN B - B
DETAIL PILE CAP
POTONGAN A-A
DETAIL KOLOM 80/80
DETAIL KOLOM 70/70
3D PONDASI
POTONGAN KOLOM 80/80
POTONGAN KOLOM 70/70


3D AXONOMETRI STRUKTUR
POTONGAN A - A
POTONGAN B - B
DETAIL PILE CAP
DETAIL KOLOM 90 / 90
PENAMPANG KOLOM 90 / 90
POTONGAN A - A
DETAIL PONDASI CORE
DETAIL KOLOM 80 / 80
3D PONDASI
PENAMPANG KOLOM 80 / 80
KEMLOFFICE CENTRE
TAMPAK DEPAN
TAMPAK BELAKANG


TAMPAK DEPAN
TAMPAK BELAKANG
POTONGAN A-A
POTONGAN B-B
RENCANA PONDASI DAN SLOOF
DENAH LANTAI 3

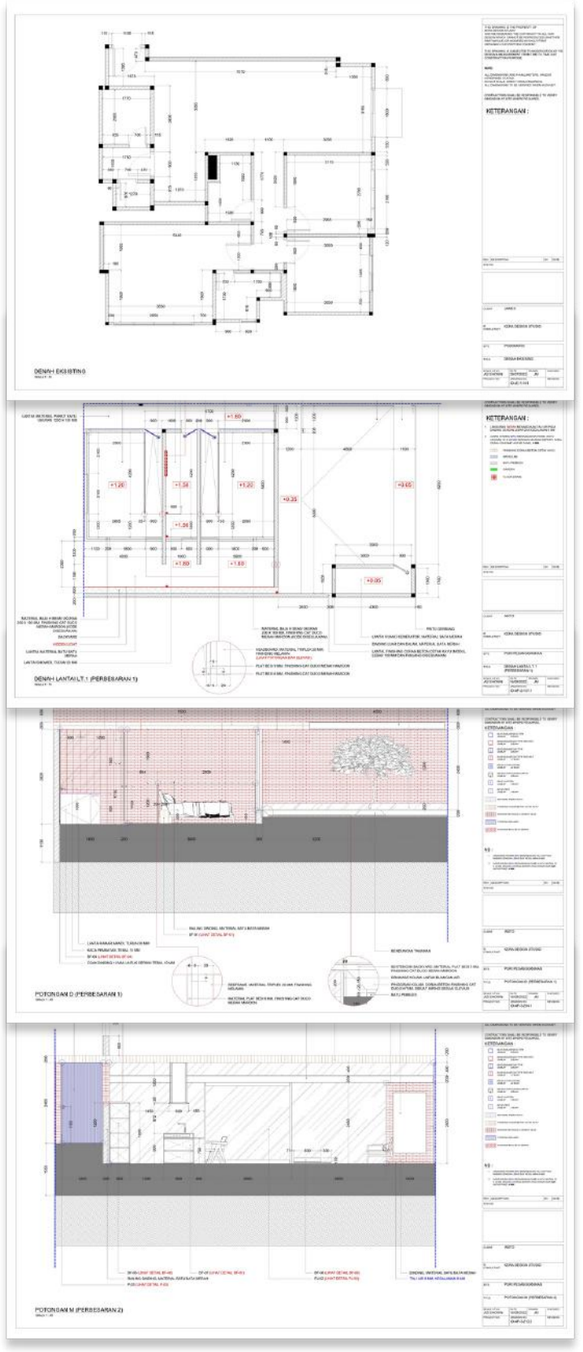
Used Programs:

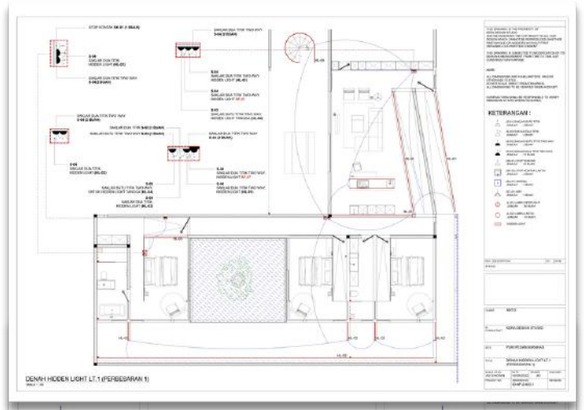
Autocad
2D Modelling

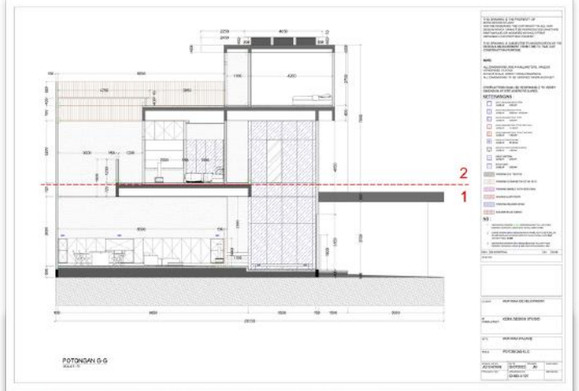
02 | Work and Internship Technical Drawings

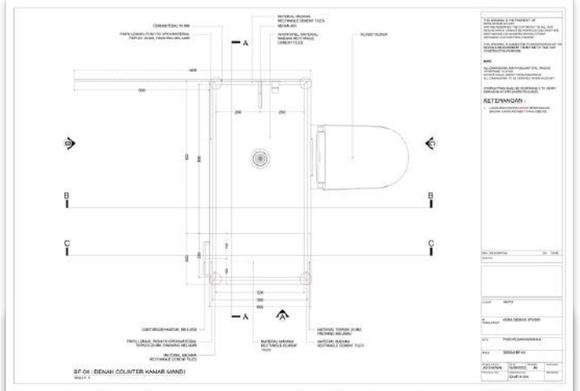
Kera Design Studio

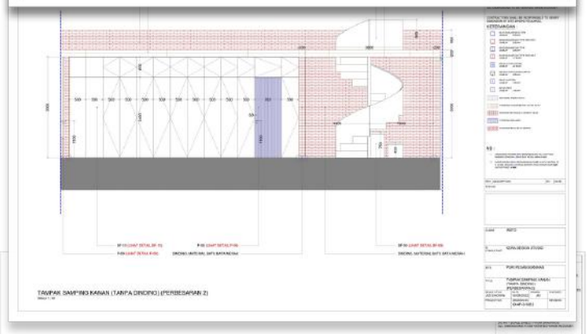
Project : Internship Projects
Year : 2022
Location : Kota Medan, Sumatera Utara, Indonesia

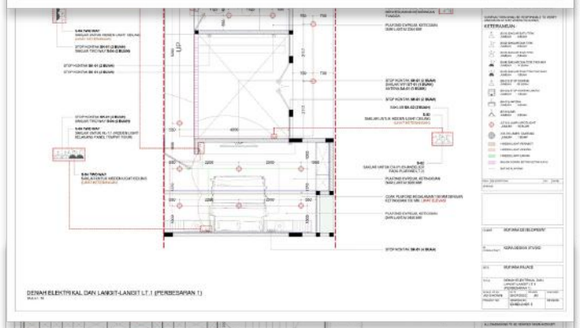


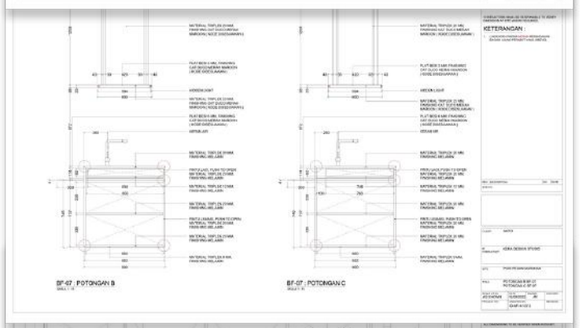

DENAH HIDDEN LIGHT LT.1 (PERBESARAN 1)

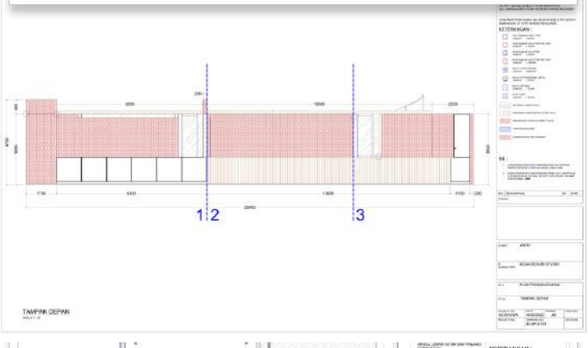

POTONGAN G-G

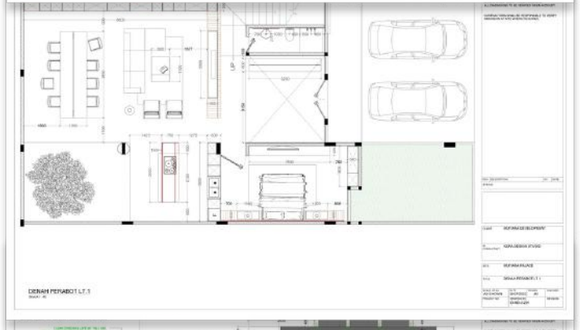

BF-04 : DENAH COUNTER KAMAR MANDI

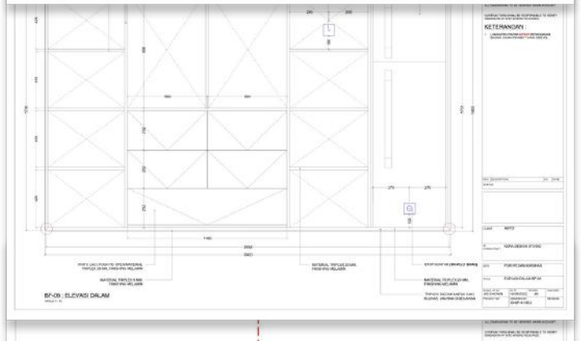

TAMPAK SAMPING KANAN (TANPA DINDING) (PERBESARAN 2)

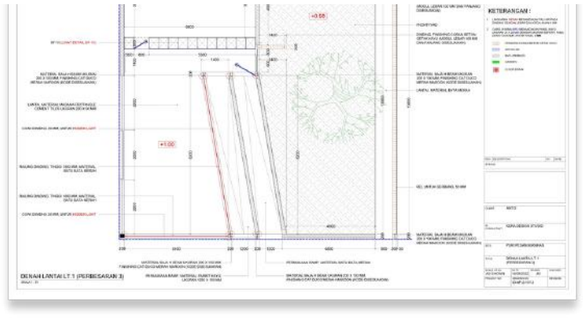

DENAH ELEKTRIKAL DAN LANGIT-LANGIT LT.1 (PERBESARAN 1)

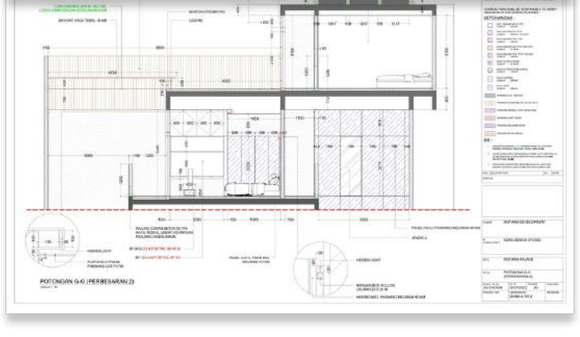

BF-07 : POTONGAN B
BF-07 : POTONGAN C

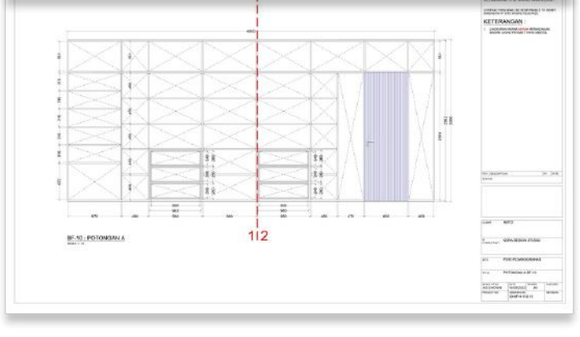

1 2
3
TAMPAK DEPAN


DENAH PERABOT LT.1

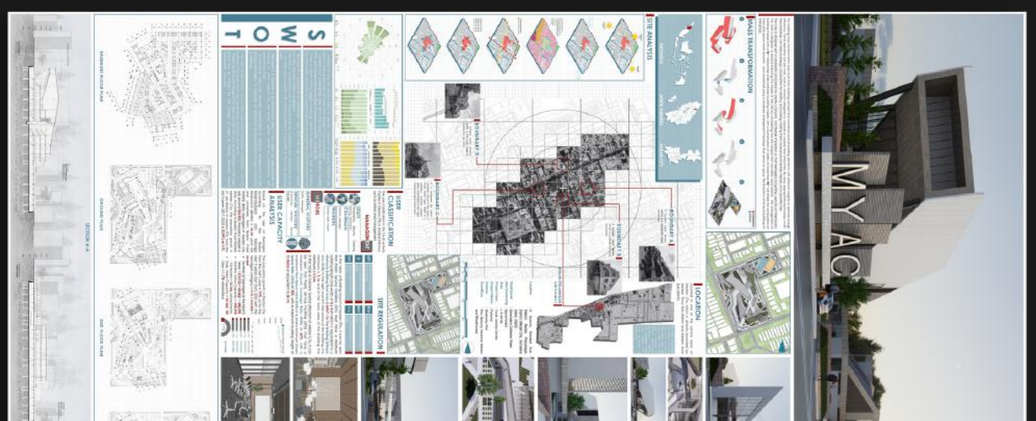

BF-08 : ELEVASI DALAM


DENAH LANTAI LT.1 (PERBESARAN 3)


POTONGAN G-G (PERBESARAN 2)


1 2
BF-10 : POTONGAN A

miscellaneous




MYAC
MEDAN YOUTH ACTIVITY CENTER WITH GREEN BUILDING APPROACH
A Youth Activity Center (YAC) is a community-based facility designed to provide a variety of recreational, educational, and social activities for young people, typically ranging from children to teenagers. These centers aim to create a safe and supportive environment where youth can engage in positive activities that promote their personal development, social skills, and overall well-being.
Youth Activity Centers play a vital role in communities by providing a positive and constructive outlet for young people, helping to keep them engaged and away from negative influences. They also offer a space where youth can connect with peers, build lasting friendships, and feel a sense of belonging.
PROBLEM
INCREASING NUMBER OF INTEREST TO LEARNING OUTSIDE OF SCHOOL AND UNIVERSITY
Medan City is one of the largest cities in Indonesia with a high productivity rate of teenagers which is indicated by the increasing number of interest to learning outside of school and university by doing external activities to explore their characteristics and talents. For this reason, a platform is needed to accommodate teenagers activities that can improve their passion and skills as well as preventing the emergence of negative behaviors and activities
USERS
TEENAGERS AND PUBLIC
Psychologically, teenager marks a stage where individuals assimilate into the adult community, a phase during which youngsters perceive themselves not as subordinate to their elders but rather as equals. During this period, there are two important things that cause teenagers to control themselves. These two things are: first, things that are external, namely environmental changes and second, things that are internal, namely the characteristics within teenagers that make them relatively more independent than other developmental periods (storm and stress period).
PRECEDENT STUDY
YOUTH ACTIVITY CENTER
A Youth Activity Center (YAC) is a community hub designed to provide a safe and supportive environment where young people can engage in a wide range of positive activities. These centers offer various programs that cater to the educational, recreational, and social needs of youth, typically ranging from children to teenagers
THEME
GREEN BUILDING APPROACH
Green buildings according to the World Green Building Council (2016) are a building that in its design, construction or use can reduce or eliminate the negative impact to the natural environment to generate a favorable influence on the climate and the natural surroundings. Green building originated from the structure of the United Nations working convention on climate change inspired by the Kyoto Protocol and countries that are members of Annex I (Developed Country) have an obligation to limit or reduce greenhouse gas emissions
OBJECTIVES OF THE STUDY
01 ARCHITECTURE
Architecture at this point serves an integral role in establishing an environment that meets human needs and influences the way to interact with the surroundings
02 TEENAGERS
Every teenagers is a unique individual, they have many different potentials and characteristics and have a various experience
03 GREEN BUILDING
Green Building refers to building design, construction, and operation that aims to reduce negative impacts on the environment and improve sustainable performance
04 EDUCATIONAL
This program leads to educational facilities as well beyond the framework of education such as art, sports, and others that serve to develop their passion and skills of teenagers
The main objectives of this design are to design a Youth Activity Center by connecting several objects such as the connection between architecture and the characteristics and potential of teenagers that related to educational facilities inside and outside the educational facility with a green building approach to reduce the negative impact on nature and the environment around it.
By connecting some of these object are expected can make the Youth Activity Center building is functioned according to the function, purpose, and benefits and also does not become a abandoned building.
ROLES
METHOD/APPROACH
Compare Several Site Alternatives
Peraturan Daerah Kota Medan No. 2 Tahun 2015 Tentang Rencana Detail Tata Ruang dan Peraturan Zonasi Kota Medan Tahun 2015 - 2035
FIELD OBSERVATION
DOCUMENTATION
LITERATURE STUDIES
COMPARATIVE STUDIES
Analysis of User
Analysis of Activity System and Space Program
Analysis of Site and Landscaping
Analysis of Interior Layout
Analysis of Mass and Form
Analysis of Structure System and Construction
Analysis of Utility System
SITE SELECTION
Criteria that need to be considered in selection of this location is the strategic location of the land and close to the city centre, the existence of public transportation that is easily accessible, and others
COLLECTING DATA
The collected data are primary data that is data and documentation of observation results and secondary data that is literature studies, comparative studies, and others
ANALYSIS DATA
The data analysis carried out is qualitative analysis, which is analyzing the aspects of the users of the activity, space requirements,spatial arrangement and circulation, then analyzed quantitatively, which is analyzing the capacity of space and the amount of space and approach about location and site
INDONESIA
NORTH SUMATRA
MEDAN CITY
SITE ANALYSIS
LOCATION
Located in one of the central areas of Medan City which is directly bounded by Medan Timur Sub-district and Medan Kota Sub-district.
BOUNDARY A
It borders Jalan Serom, which is a residential area and shops.
BOUNDARY B
It borders Jalan Serom, which is a residential area and shops.
BOUNDARY C
It is bordered by Jalan Veteran, which is the Jalan Pusat Pasar area which is Medan's Central Market area, and there is the Tugu Persimpangan Pusat Pasar.
BOUNDARY D
It borders Jalan Sutomo, which is the main road to access the site area
MEDAN PERJUANGAN SUB-DISTRICT
Location : Jl. Sutomo, Sidodadi Sub-District, Medan Perjuangan District, Medan City, Sumatera Utara, 20232
Road Level : Secondary Collector Road
Site Ownership : Government
Area : ± 1.43 Ha
Project Case : Youth Activity Center
Project Status : Fictional
Contour : Relatively Flat
Condition : Eks Gedung Nasional Medan and Shophouses
USER CLASSIFICATION
The user classification in this Youth Activity Center in Medan City is divided into two, such as visitors and management.
MANAGEMENT
STAFF
CHAIRMAN
TRAINERS
VISITORS
GENERAL VISITOR
Public, Teenagers
SPECIAL VISITOR
USER CAPACITY ANALYSIS
SITE REGULATION
SWOT
CLOUD - 9
MALL & HOTEL
This building is a mixed-used building that has a combined function of mall and hotel. This building applies the concept of modern architecture that contain 2 floor of basement, 4 podium floor, 11 typical floor and a rooftop.
This building is located in an area that suitable for its function that is mall and hotel, because the site are located in a business that doesn't have any mall or hotel in that area.
So, that can be an opportunities for this building to attract local people attention to visit this building or maybe to stay for some nights or maybe more at the hotel.
LOCATION
Jl. Jendral Abdul Haris Nasution, Harjosari II, Medan Amplas, Medan City, North Sumatra
SITE AREA
+/- 11.000 m²
KDB : Max 70 %
KDH : Min 20 %
KLB : 10
GSB : Min 3 m
BUILDING HEIGHT : Max 15 Floor/60 m
SITE
LAND USE
SIRCULATION
ANALYSIS
MASS TRANSFORMATION
- Site Centrally Located in Medan City
- Site Located in a Strategic Location for Commercial Area
- Site Located at Primary Road That Can Make A Lot of Noise and High Traffic Jam
- Profitable, Because It Located in a High Density Business Area
- Because It Located in a High Density Business Area, Lots of Competition in Business Can Happen in That Area
Basement 2nd Floor
Basement 1st Floor
1st Podium Floor Plan
2nd Podium Floor Plan
3rd Podium Floor Plan
4th Podium Floor Plan
Axonometric
USU LEARNING CENTER
SITE
ANALISIS
GUBAHAN MASSA
DENAH BASEMENT LT.2
DENAH BASEMENT LT.1
DENAH PODIUM LT.1
DENAH PODIUM LT.2
DENAH PODIUM LT.3
DENAH TOWER LT. 4 - 5
DENAH TOWER LT. 6 - 9
DENAH TOWER LT. 10
DENAH TOWER LT. 11 - 15
DENAH ROOFTOP
Architectural Form of Tjong A Fie Mansion
Courtyards(Dao Philosophy)
The open-air "Well of Heaven" courtyard, one can see into the inner sanctum towards the family temple. The courtyard at Tjong A Fie's mansion became ideal space that maintains harmony between nature and people, because the courtyard becomes where light enters and carries air health for the occupants. Besides that, courtyard becomes a representative space relationship between humans and their ancestors his god .
Spatial Orientation
The concept of traditional Chinese cosmology is applied on the concept of orientation of the Tjong A Fie House site. Tjong A Fie's house faces the West Power with orientation towards Sungai Deli is suitable principle of Feng-shui concept. The river is interpreted as a red peacockwhich brings good luck.
Building Axis
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GROUP 3A

Used Programs:

Adobe Photoshop + Adobe Illustrator
Graphic Design

01 | Architecture Poster Design

Academic Design Studio Project

Project : Architecture Design Studio
Year : 2020 - 2024
Location : Kota Medan, Sumatera Utara, Indonesia

MYAC

MEDAN YOUTH ACTIVITY CENTER WITH GREEN BUILDING APPROACH

A Youth Activity Center (YAC) is a community-based facility designed to provide a variety of recreational, educational, and social activities for young people, typically ranging from children to teenagers. These centers aim to create a safe and supportive environment where youth can engage in positive activities that promote their personal development, social skills, and overall well-being.
Youth Activity Centers play a vital role in communities by providing a positive and constructive outlet for young people, helping to keep them engaged and away from negative influences. They also offer a space where youth can connect with peers, build lasting friendships, and feel a sense of belonging.

PROBLEM STATEMENT

INTEREST TO LEARNING | TEENAGERS DELIQUENCY | PRESERVING NATURE | TEENAGERS FACILITIES | GREEN BUILDING

PROBLEM

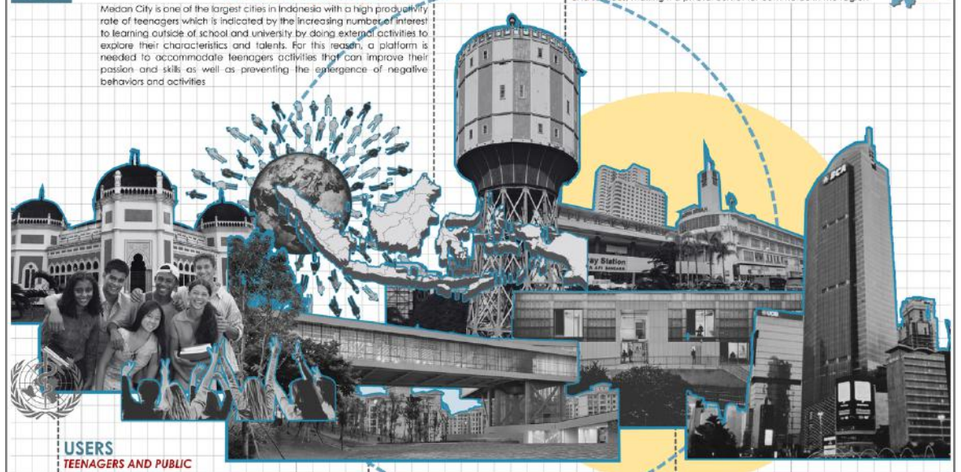
INCREASING NUMBER OF INTEREST TO LEARNING OUTSIDE OF SCHOOL AND UNIVERSITY

Medan City is one of the largest cities in Indonesia with a high productivity rate of teenagers which is indicated by the increasing number of interest to learning outside of school and university by doing extegral activities to explore their characteristics and talents. For this reason, a platform is needed to accommodate teenagers activities that can improve their passion and skills as well as preventing the emergence of negative behaviors and activities

LOCATION

MEDAN CITY

Medan, the capital of North Sumatra in Indonesia, is a vibrant city known for its cultural diversity and economic significance. As the fourth largest city in Indonesia, Medan serves as a crucial economic hub, with its bustling port, Belawan, facilitating major trade activities. The city's economy thrives on a mix of trade, manufacturing, agriculture, and services, making it a pivotal center for commerce in the region



USERS

TEENAGERS AND PUBLIC

Psychologically, teenager marks a stage where individuals assimilate into the adult community, a phase during which youngsters perceive themselves not as subordinate to their elders but rather as equals. During this period, there are two important things that cause teenagers to control themselves. These two things are: first, things that are external, namely environmental changes and second, things that are internal, namely the characteristics within teenagers that make them relatively more independent than other developmental periods (storm and stress period).

THEME

GREEN BUILDING APPROACH

Green buildings according to the World Green Building Council (2016) are a building that in its design, construction or use can reduce or eliminate the negative impact to the natural environment to generate a favorable influence on the climate and the natural surroundings. Green building originated from the structure of the United Nations working convention on climate change inspired by the Kyoto Protocol and countries that are members of Annex I (Developed Country) have an obligation to limit or reduce greenhouse gas emissions

PRECEDENT STUDY

YOUTH ACTIVITY CENTER

A Youth Activity Center (YAC) is a community hub designed to provide a safe and supportive environment where young people can engage in a wide range of positive activities. These centers offer various programs that cater to the educational, recreational, and social needs of youth, typically ranging from children to teenagers

OBJECTIVES OF THE STUDY

01 ARCHITECTURE
Architecture at this point serves an integral role in establishing an environment that meets human needs and influences the way to interact with the surroundings

02 TEENAGERS
Every teenagers is a unique individual, they have many different potentials and characteristics and have a various experience

03 GREEN BUILDING
Green Building refers to building design, construction, and operation that aims to reduce negative impacts on the environment and improve sustainable performance

04 EDUCATIONAL
This program leads to educational facilities as well beyond the framework of education such as art, sports, and others that serve to develop their passion and skills of teenagers

The main objectives of this design are to design a Youth Activity Center by connecting several objects such as the connection between architecture and the characteristics and potential of teenagers that related to educational facilities inside and outside the educational facility with a green building approach to reduce the negative impact on nature and the environment around it.
By connecting some of these object are expected can make the Youth Activity Center building is functioned according to the function, purpose, and benefits and also does not become a abandoned building.

METHOD/APPROACH

- Compare Several Site Alternatives
- Peraturan Daerah Kota Medan No. 2 Tahun 2015 Tentang Rencana Detail Tata Ruang dan Peraturan Zonasi Kota Medan Tahun 2015 - 2035

FIELD OBSERVATION
Direct observation is needed to find out the actual situation, aspects and problems that occur at the site or location

DOCUMENTATION
Observation documentation serves as a collection, retention, and validation of data from information that obtained directly at the location

LITERATURE STUDIES
Literature study refers to a type of research or analysis conducted on a collection of reading materials or relevant written sources

COMPARATIVE STUDIES
Comparative studies conducted are comparative studies with similar functions and comparative studies with similar themes or approaches

- Analysis of User
- Analysis of Activity System and Space Program
- Analysis of Site and Landscaping
- Analysis of Interior Layout
- Analysis of Mass and Form
- Analysis of Structure System and Construction
- Analysis of Utility System

SITE SELECTION
Criteria that need to be considered in selection of this location is the strategic location of the land and close to the city centre, the existence of public transportation that is easily accessible, and others

COLLECTING DATA
The collected data are primary data that is data and documentation of observation results and secondary data that is literature studies, comparative studies, and others

ANALYSIS DATA
The data analysis carried out is qualitative analysis, which is analyzing the aspects of the users of the activity, space requirements, spatial arrangement and circulation, then analyzed quantitatively, which is analyzing the capacity of space and the amount of space and approach about location and site

ROLES

PRECEDENT STUDY

CHONGQING TAOYUANJU COMMUNITY CENTER

PROFILE

Building Name	: Chongqing Taoyuanju Community Center
Architect	: Vector Architects
Location	: Chongqing, China
Year Constructed	: 2015
Area	: 10.000 m²

FACILITIES

The Chongqing Taoyuanju Community Center have three main programs, namely as a cultural center, athletic center, and health center which become three main buildings and connected by a continuous roof among buildings.
From the three main programs, others facilities are developed which is interaction area between communities and communal spaces, training areas for various sports, health laboratories, cultural training classrooms, aerobics room, outdoor garden as well as a gathering or relaxing area.

STRENGHTS

The strengths of the Chongqing Taoyuanju Community Center include its innovative architectural design, multifunctional spaces that cater to diverse community needs, sustainable construction practices, and incorporation of advanced technologies. Additionally, the center prioritizes community engagement and participation, fostering a sense of belonging among residents.

YOUTH CENTER OF QINGPU

FACILITIES

For social education, there is a classroom, library, open theater, and meeting room. For the arts center, there is a dancing room, music room, and gallery. The courtyard are the only one of the secondary facilities at the building.

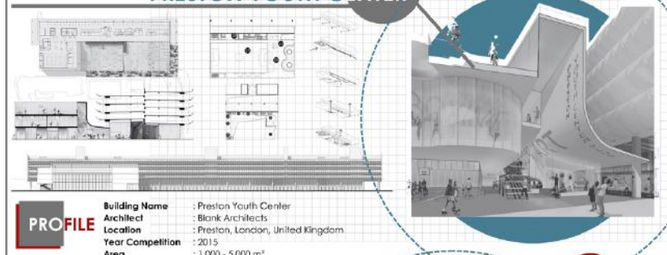
STRENGHTS

The advantages of the Youth Center of Qingpu building include its strategic location, modern and sustainable architectural design, state ofthe art facilities catering to the diverse needs and interests of the youth, and a collaborative environment that encourages creativity, learning, and community engagement. Additionally, the center's incorporation of innovative technologies and adherence to environmental standards contribute to its appeal and functionality.

PROFILE

Building Name	: Youth Center of Qingpu
Architect	: Atelier Dashaus - Liu Yichun, Chen Yifeng
Location	: Huake Rd, Qingpu, Shanghai, China
Year Constructed	: 2012
Area	: 14.360 m²

PRESTON YOUTH CENTER



PROFILE

Building Name	: Preston Youth Center
Architect	: Blank Architects
Location	: Preston, London, United Kingdom
Year Competition	: 2015
Area	: 1.000 - 5.000 m²

FACILITIES

For social education, there is a group work room, film and multimedia room, board/training room, and enterprise zone. For the arts center, there is a performing art studio, music room, art,craft and fashion room. For sports facilities, there is a sports hall, climbing wall, and kick pitch.
There are also secondary facilities such as a health, beauty, and wellbeing activity room, skate park area, and external recreation area.

STRENGHTS

The Preston Youth Center structure boasts a contemporary architectural layout, integrates eco-friendly building methods, employs cutting edge technology for effective energy control, offers top notch facilities for diverse youth activities, and is strategically positioned to encourage community involvement and accessibility.

THE NEW GENERATION (TNG) YOUTH AND COMMUNITY CENTER

FACILITIES

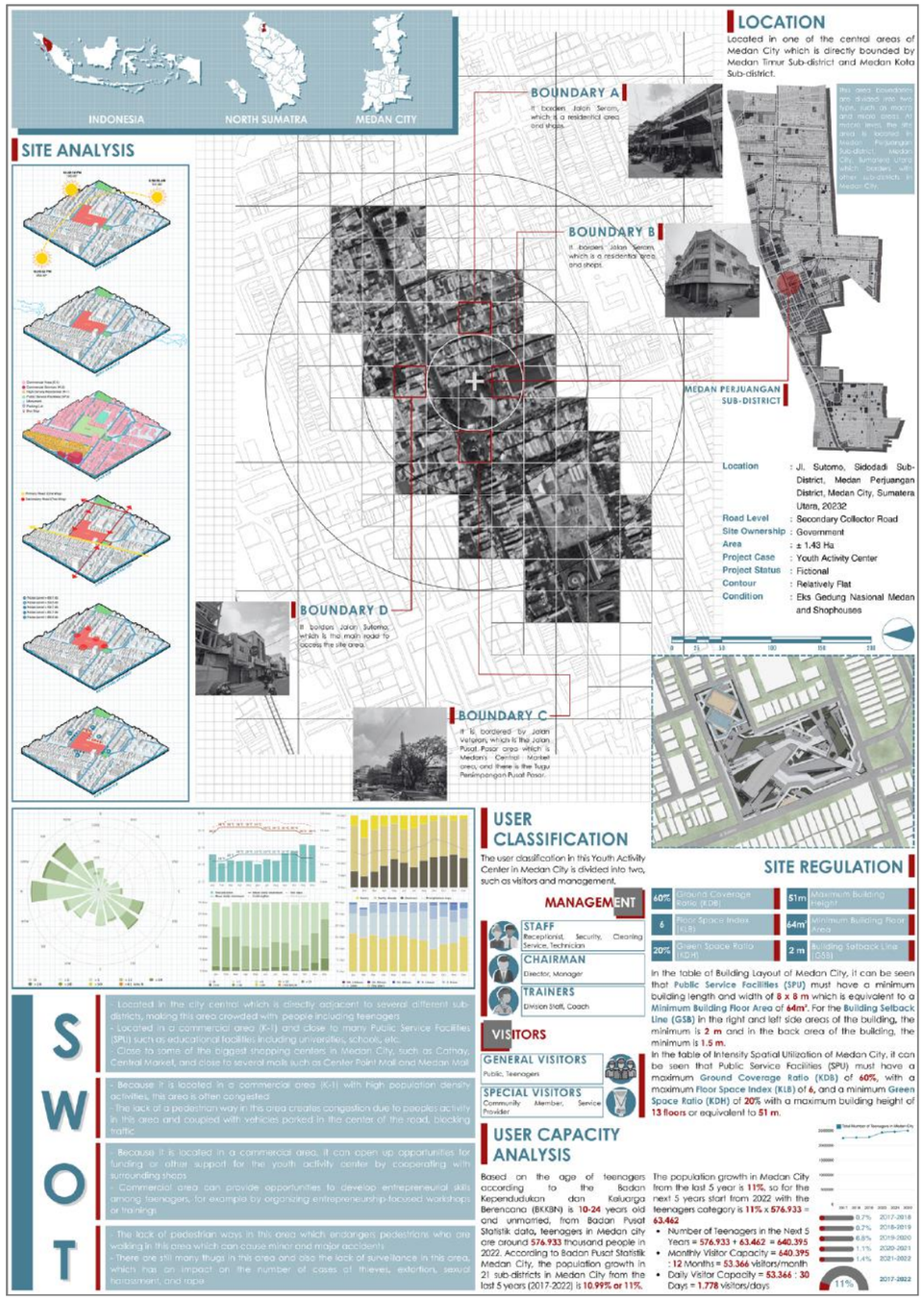
For social education, there is a youth base, youth forum as a forum for teaching and conferences, meetin rooms, IT learning rooms, training kitchen, games area. For the arts center, there is a recording studio, singing room, dance room and a performance room using the main multipurpose hall.
For sports facilities, there is a soccer field and a rock climbing area. There are also secondary facilities such as a sexual health clinic and cafeteria.

STRENGHTS

The New Generation (TNG) Youth & Community Center (London) is quite comprehensive in incorporating facilities needed by youth. There are sports, arts, education and social facilities. Also has a counseling room and sexual health clinic which will be very useful for teenagers.

PROFILE

Building Name	: The New Generation Youth and Community Center
Architect	: RCKa
Location	: Lewisham, London, United Kingdom
Year Constructed	: 2013
Area	: -


INDONESIA
NORTH SUMATRA
MEDAN CITY
SITE ANALYSIS
LOCATION
Located in one of the central areas of Medan City which is directly bounded by Medan Timur Sub-district and Medan Kota Sub-district.
BOUNDARY A
It borders Jalan Serom, which is a residential area and shops.
BOUNDARY B
It borders Jalan Serom, which is a residential area and shops.
BOUNDARY C
It is bordered by Jalan Veteran, which is the Jalan Pusat Pasar area which is Medan's Central Market area, and there is the Tugu Persimpangan Pusat Pasar.
BOUNDARY D
It borders Jalan Sutomo, which is the main road to access the site area.
MEDAN PERJUANGAN SUB-DISTRICT
Location : Jl. Sutomo, Sidodadi Sub-District, Medan Perjuangan District, Medan City, Sumatera Utara, 20232
Road Level : Secondary Collector Road
Site Ownership : Government
Area : ± 1,43 Ha
Project Case : Youth Activity Center
Project Status : Fictional
Contour : Relatively Flat
Condition : Eks Gedung Nasional Medan and Shophouses
USER CLASSIFICATION
The user classification in this Youth Activity Center in Medan City is divided into two, such as visitors and management.
MANAGEMENT
STAFF
Receptionist, Security, Cleaning Service, Technician
CHAIRMAN
Director, Manager
TRAINERS
Division Staff, Coach
VISITORS
GENERAL VISITORS
Public, Teenagers
SPECIAL VISITORS
Community Member, Service Provider
USER CAPACITY ANALYSIS
Based on the age of teenagers according to the Badan Kependudukan dan Keluarga Berencana (BKKBN) is 10-24 years old and unmarried, from Badan Pusat Statistik data, teenagers in Medan city are around 576.933 thousand people in 2022. According to Badan Pusat Statistik Medan City, the population growth in 21 sub-districts in Medan City from the last 5 years (2017-2022) is 10.995 or 11%.
The population growth in Medan City from the last 5 year is 11%, so for the next 5 years start from 2022 with the teenagers category is 11% x 576.933 = 63.462
• Number of Teenagers in the Next 5 Years = 576.933 + 63.462 = 640.395
• Monthly Visitor Capacity = 640.395 : 12 Months = 53.366 visitors/month
• Daily Visitor Capacity = 53.366 : 30 Days = 1.778 visitors/days
SITE REGULATION
60% Ground Coverage Ratio (KDB)
51m Maximum Building Height
6 Floor Space Index (KLB)
64m² Minimum Building Floor Area
20% Green Space Ratio (KDH)
2 m Building Setback Line (GSB)
In the table of Building Layout of Medan City, it can be seen that Public Service Facilities (SPU) must have a minimum building length and width of 8 x 8 m which is equivalent to a Minimum Building Floor Area of 64m². For the Building Setback Line (GSB) in the right and left side areas of the building, the minimum is 2 m and in the back area of the building, the minimum is 1.5 m.
In the table of Intensity Spatial Utilization of Medan City, it can be seen that Public Service Facilities (SPU) must have a maximum Ground Coverage Ratio (KDB) of 60%, with a maximum Floor Space Index (KLB) of 6, and a minimum Green Space Ratio (KDH) of 20% with a maximum building height of 13 floors or equivalent to 51 m.
11%
S
- Located in the city central which is directly adjacent to several different sub-districts, making this area crowded with people including teenagers
- Located in a commercial area (K-1) and close to many Public Service Facilities (SPU) such as educational facilities including universities, schools, etc.
- Close to some of the biggest shopping centers in Medan City, such as Cathay, Central Market, and close to several malls such as Center Point Mall and Medan Mall
W
- Because it is located in a commercial area (K-1) with high population density activities, this area is often congested
- The lack of a pedestrian way in this area creates congestion due to peoples activity in this area and coupled with vehicles parked in the center of the road, blocking traffic
O
- Because it is located in a commercial area, it can open up opportunities for funding or other support for the youth activity center by cooperating with surrounding shops
- Commercial area can provide opportunities to develop entrepreneurial skills among teenagers, for example by organizing entrepreneurship-focused workshops or trainings
T
- The lack of pedestrian ways in this area which endangers pedestrians who are walking in this area which can cause minor and major accidents
- There are still many thugs in this area and also the lack of surveillance in this area, which has an impact on the number of cases of thieves, extortion, sexual harassment, and rape

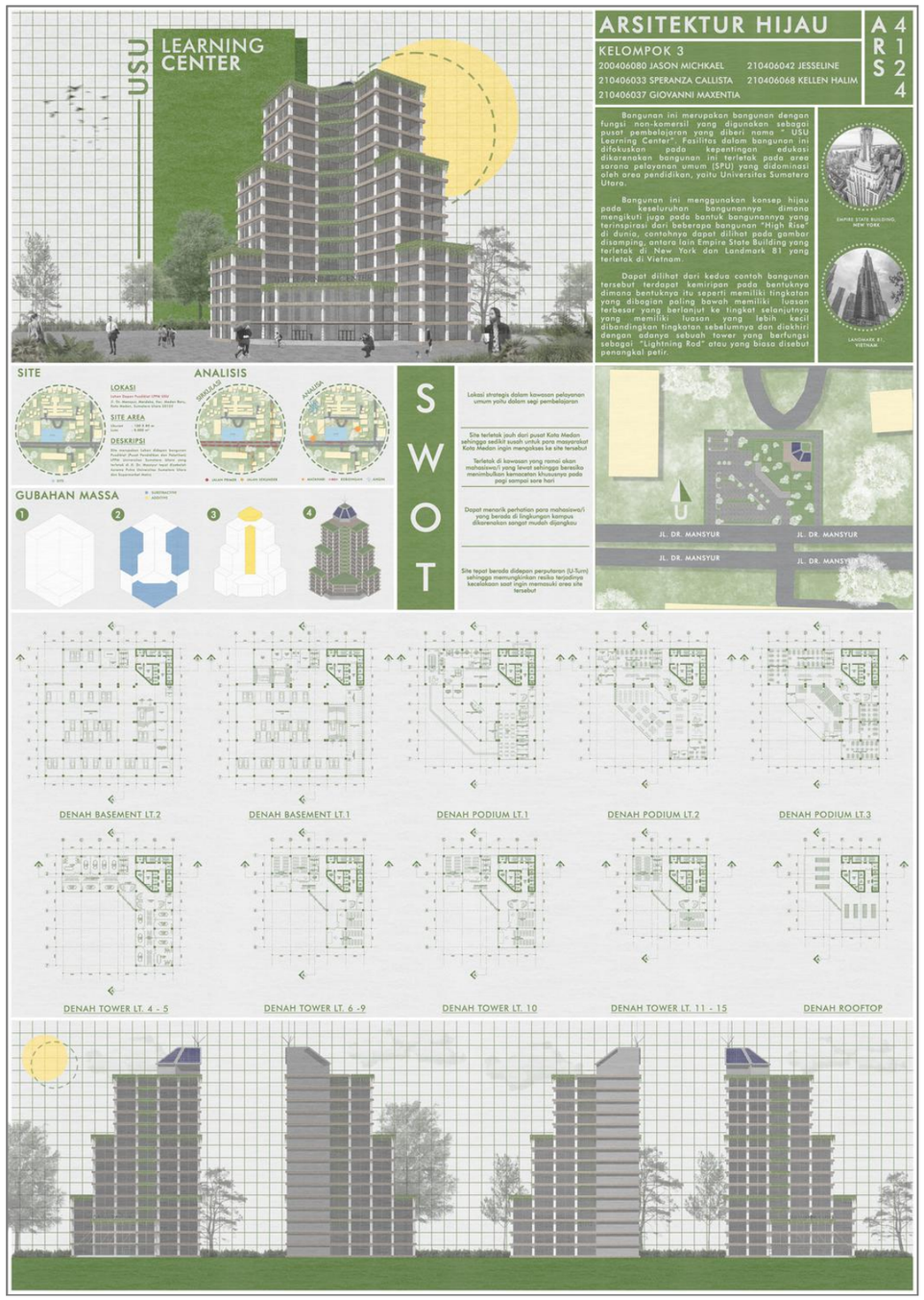

Medan Youth Activity Center is designed to provide a comfortable and qualified environment for teenagers to improve their passion and skills. In this design, the Green Building approach was implemented to use eco-friendly architecture and minimize the damage of nature and the surrounding environment which refers to several variables that are found at GBCI (Green Building Council Indonesia) such as Appropriate Land Use, Energy Efficiency and Conservation, Water Conservation, Air Quality & Indoor Air Comfort, and Building Environmental Management which are also expected to minimize the problems on the surrounding environment and provide a positive effect on the area that will be designed.
MY AC
This building mass transformation uses multi-mass building concept that combines several building elements with different weights to optimize energy efficiency. These elements can be walls, roofs or windows designed to capture or radiate heat effectively. By using appropriate technology, multi-mass buildings can reduce energy consumption for heating and cooling, making them more environmentally friendly and cost-effective.
The mass is designed with a clustered composition to create a dynamic and flexible impression so that teenagers as building users do not feel bored. The mass is designed to extend following the shape of the site by considering the site analysis that has been done before. The arrangement of building masses with a 90 ° relationship order between building masses with a combination of orders of more than 90 ° will make the composition of mass and space more dynamic, and combined using a clustered arrangement typology that serves to group the functions of several buildings in one group.
MASS TRANSFORMATION
Subtractive
Additive
FRONT ELEVATION
BACK ELEVATION
RIGHT ELEVATION
LEFT ELEVATION
3rd Floor Plan
2nd Floor Plan
Ground Plan
Basement Floor Plan

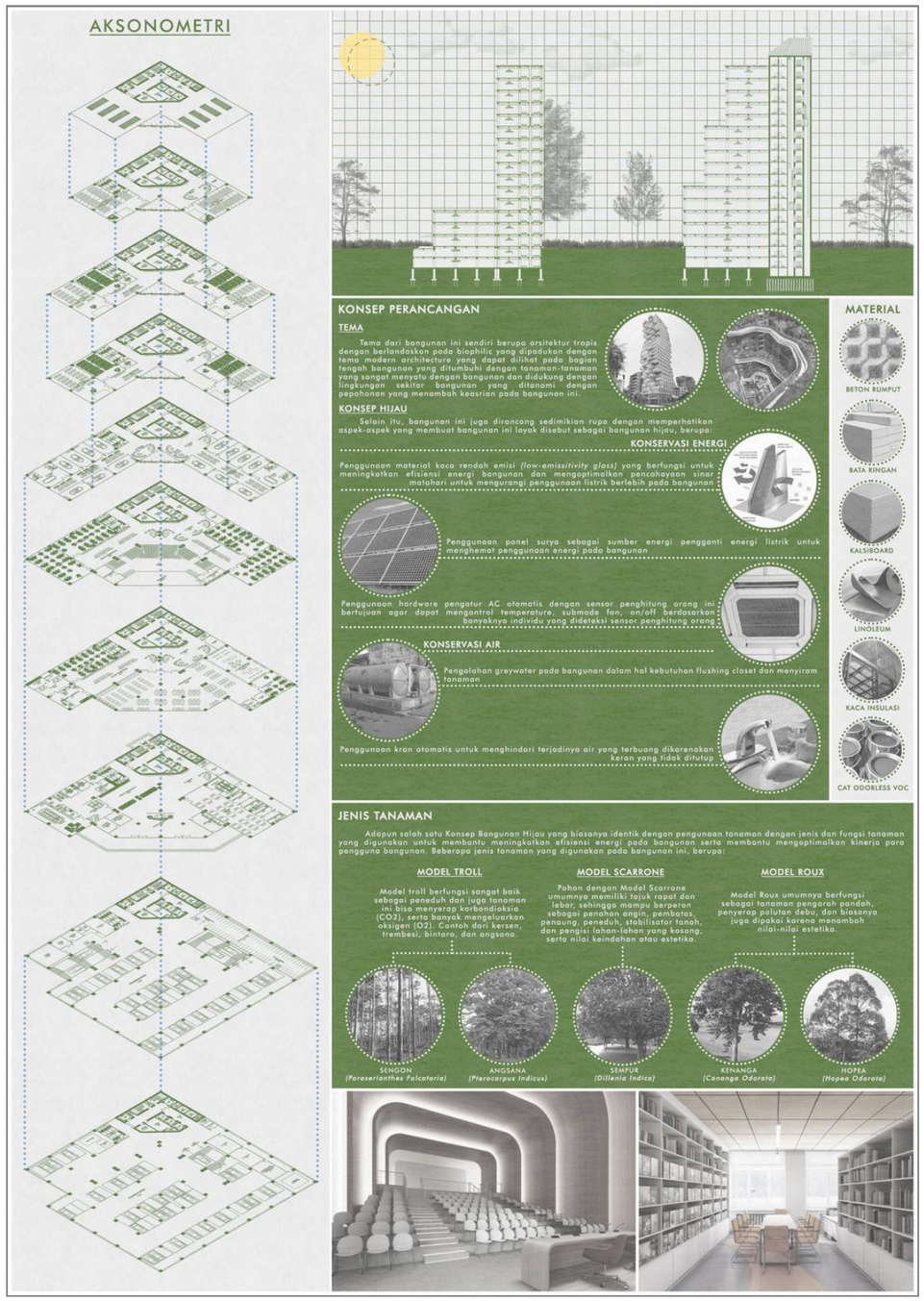

BASEMENT FLOOR PLAN
GROUND PLAN
2ND FLOOR PLAN
3RD FLOOR PLAN
SECTION A-A
SECTION B-B
SECTION C-C
Generally, circulation into the site is divided into 3, such as pedestrian circulation, vehicle circulation, and service circulation. The main access to the site is on Jalan Sutomo. Vehicle circulation is designed in only one area so that vehicles can enter from several areas to access the building according to their needs. For service circulation through Jalan Veteran located on the side of the site.
Pedestrian circulation is designed around the site because around the site is an area that is traversed by many pedestrians so it is designed with its own access comfortably and safely so as not to be disturbed by other circulation.

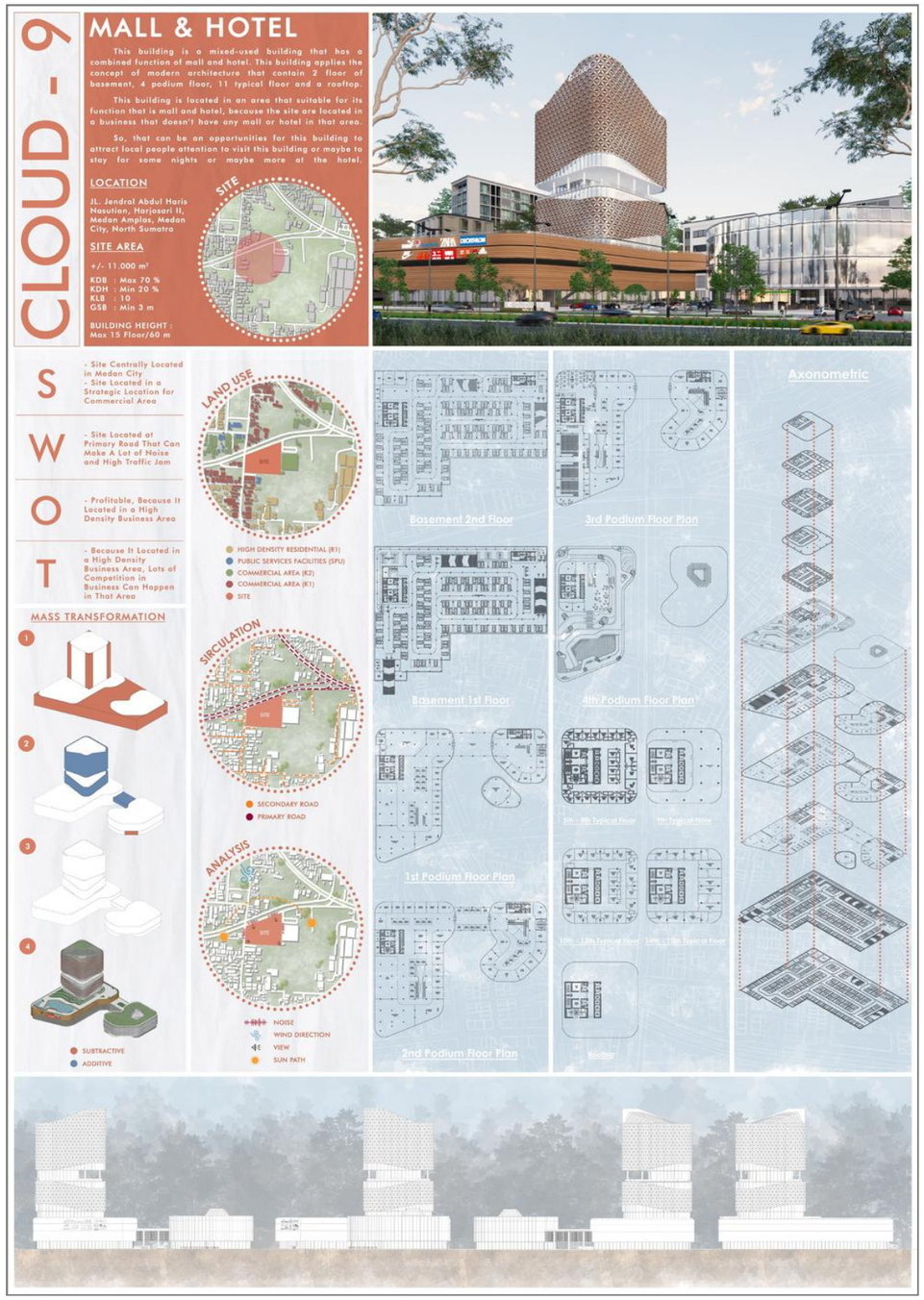

Art & Craft Center
The outdoor area of this building is mostly designed as a green area combined with public open spaces in order to accommodate various youth activities such as jogging tracks, sports fields, communal areas, and others. The use of asymmetrical shapes can create a dynamic and not monotonous impression so that building users can feel safe and comfortable when using this building. The parking area in this building uses a basement which is placed under the ground floor of the building, apart from the basement parking area there is also a sports field area that functions for users who only want to exercise so that it is close to the parking lot.
The orientation of the main building faces Jalan Sutomo which leads to the Southwest so as to maximize the natural light that enters to the building and avoid the inclusion of excessive light that come from the East and West sides of the building. The availability of the shuttle bus area serves to make it easier for visitors who want to take the bus to easily reach the building, and the availability of pedestrian paths around the site serves for building users who want to cross around the site to be safer and more comfortable because around the site is an area that is mostly passed by pedestrians.
The vegetation pattern applied around the building forms a microclimate, is a pattern that will reduce solar radiation and contribute to O2 supply. The use of CO2 absorbing tree plants in buildings such as, Keral Payung Tree (Felicium Decipiens) and Kenanga Tree (Canangium Odoratum) which functions as a CO2 absorber from vehicles passing around the site.

05 Miscellaneous | Architecture Poster Design

Academic Design Studio Project






CLOUD - 9
MALL & HOTEL
This building is a mixed-used building that has a combined function of mall and hotel. This building applies the concept of modern architecture that contain 2 floor of basement, 4 podium floor, 11 typical floor and a rooftop.
This building is located in an area that suitable for its function that is mall and hotel, because the site are located in a business that doesn't have any mall or hotel in that area.
So, that can be an opportunities for this building to attract local people attention to visit this building or maybe to stay for some nights or maybe more at the hotel.
LOCATION
JL. Jendral Abdul Haris Nasution, Harjosari II, Medan Amplas, Medan City, North Sumatra
SITE
SITE AREA
+/- 11.000 m²
KDB : Max 70 %
KDH : Min 20 %
KLB : 10
GSB : Min 3 m
BUILDING HEIGHT : Max 15 Floor/60 m
S
- Site Centrally Located in Medan City
- Site Located in a Strategic Location for Commercial Area
W
- Site Located at Primary Road That Can Make A Lot of Noise and High Traffic Jam
O
- Profitable, Because It Located in a High Density Business Area
T
- Because It Located in a High Density Business Area, Lots of Competition in Business Can Happen in That Area
LAND USE
HIGH DENSITY RESIDENTIAL (R3)
PUBLIC SERVICES FACILITIES (SPU)
COMMERCIAL AREA (K2)
COMMERCIAL AREA (K1)
SITE
Basement 2nd Floor
3rd Podium Floor Plan
Axonometric
Basement 1st Floor
4th Podium Floor Plan
1st Podium Floor Plan
2nd Podium Floor Plan
MASS TRANSFORMATION
1
2
3
4
SUBTRACTIVE
ADDITIVE
SIRCULATION
SECONDARY ROAD
PRIMARY ROAD
ANALYSIS
NOISE
WIND DIRECTION
VIEW
SUN PATH


CLOUD 9
MALL & HOTEL
Around the site of this building, there are many buildings which is a commercial building. Beside that, there are also have preservation area around the site of the building.
For examples, beside this building, there is a building with function as a supermarket call "Maju Bersama". This building is one of the competitors at the site area, because this building has a function that purpose to fulfil local people needs.
Besides that, around the site of this building that also have some buildings like a church, school, restaurant, and more.
One of the biggest weakness that have on this site is the primary road are one way, so if people want to enter the building, when they're passing the building and want to go back, they must to take a long turn to back to this building.
The building consists of two forms, the first one is on the left which is the main building that is the main mall that has function as shopping, play game at the arcade arena, watch movies at the cinema ,and more that also combined with the typical floor that has a hotel function.
The second forms is on the right that only has function as a mall but, it only contains food and beverage. At the middle of the building, there has a hall way that has a function as a mediator to connect between the first forms mall and the second forms mall.
The building material are combined between light wood and glass material that have a secondary facade on the outer layer of the building.
1
2
MAJU BERSAMA
3
4
200406080
JASON MICHKAEL


Architectural Form of Tjong A Fie Mansion
Courtyards(Dao Philosophy)
The open-air "Well of Heaven" courtyard, one can see into the inner sanctum towards the family temple. The courtyard at Tjong A Fie's mansion became ideal space that maintains harmony between nature and people, because the courtyard becomes where light enters and carries air health for the occupants. Besides that, courtyard becomes a representative space relationship between humans and their ancestors his god .
Spatial Orientation
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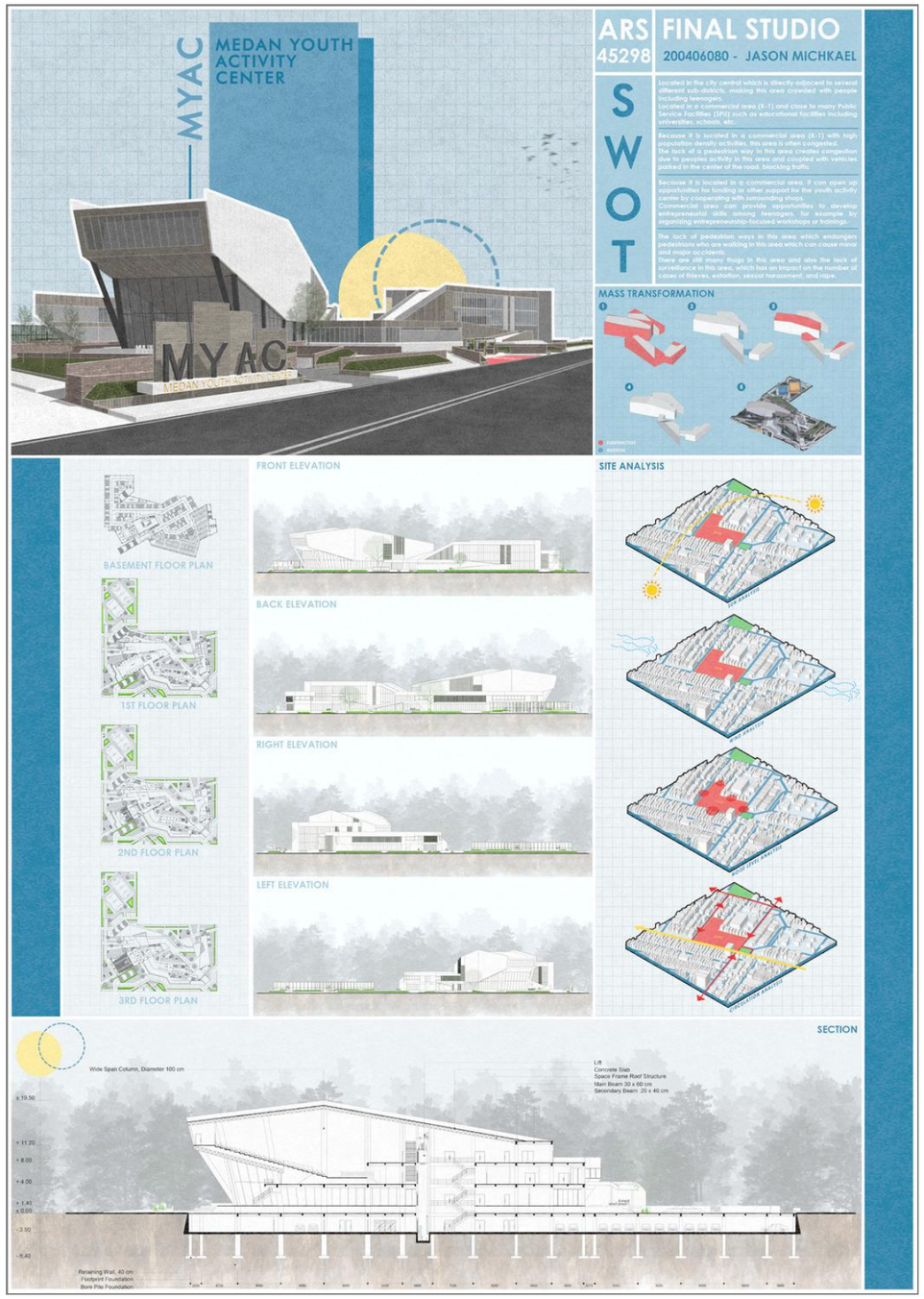
INTERNATIONAL SUMMER COURSE ARCHITECTURE
GROUP 3A 2023


INTRODUCTION
Since the Netherlands colonial era, the Kesawan area has been used as a trading area that is quite busy visited by various traders from all over the world. As a trade and commercial center, many buildings and structures were built in the Netherlands style to express their colonial power and dominance. Netherlands architects and engineers were also instrumental in designing and constructing buildings by combining European architectural elements and local traditions, creating a distinctive Netherlands colonial architectural style.
MAPPING
THE RIGHT VENTRIUM OF KESAWAN
LOCATION
NUMBER OF STOREYS OF BUILDING
LAND USE
BUILDING FUNCTION
POINTS OF INTEREST
OCCUPANCY
CIRCULATION
commercial + residential
Architectural
Social Cultural
Textile District
POINTS OF INTEREST
ON SITE SKETCHES
SWOT ANALYSIS
STRENGTH
WEAKNESS
THREAT
OPPORTUNITIES


MYAC
MEDAN YOUTH ACTIVITY CENTER
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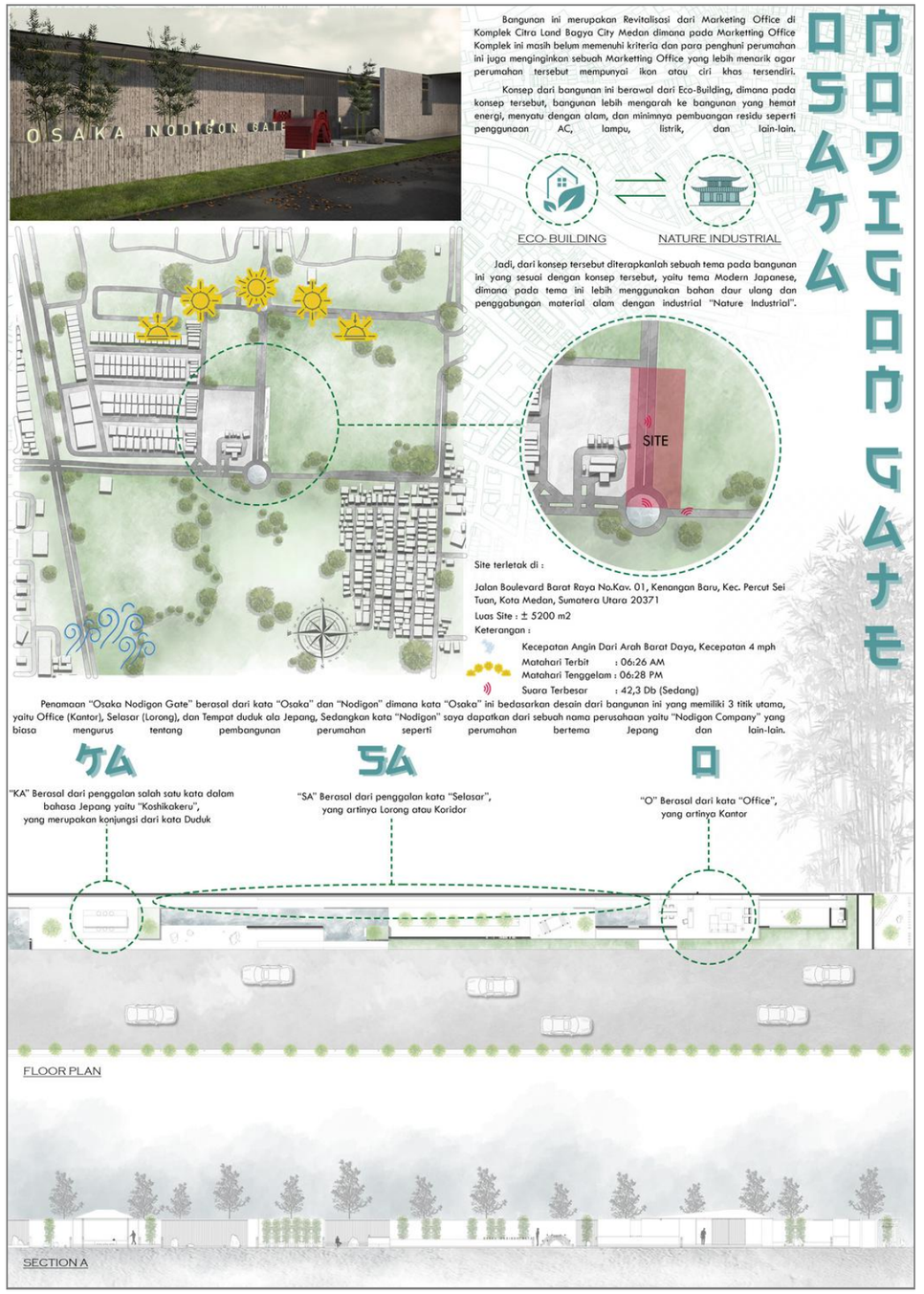
MEDAN YOUTH ACTIVITY CENTER
ARS 45298
FINAL STUDIO
200406080 - JASON MICHKAEL
S
W
O
T
MASS TRANSFORMATION
SITE ANALYSIS
BASEMENT FLOOR PLAN
1ST FLOOR PLAN
2ND FLOOR PLAN
3RD FLOOR PLAN
FRONT ELEVATION
BACK ELEVATION
RIGHT ELEVATION
LEFT ELEVATION
SECTION


OSAKA NODIGON GATE
Bangunan ini merupakan Revitalisasi dari Marketing Office di Komplek Citra Land Bagya City Medan dimana pada Marketting Office Komplek ini masih belum memenuhi kriteria dan para penghuni perumahan ini juga menginginkan sebuah Marketting Office yang lebih menarik agar perumahan tersebut mempunyai ikon atau ciri khas tersendiri.
Konsep dari bangunan ini berawal dari Eco-Building, dimana pada konsep tersebut, bangunan lebih mengarah ke bangunan yang hemat energi, menyatu dengan alam, dan minimnya pembuangan residu seperti penggunaan AC, lampu, listrik, dan lain-lain.
ECO-BUILDING
NATURE INDUSTRIAL
Jadi, dari konsep tersebut diterapkanlah sebuah tema pada bangunan ini yang sesuai dengan konsep tersebut, yaitu tema Modern Japanese, dimana pada tema ini lebih menggunakan bahan daur ulang dan penggabungan material alam dengan industrial "Nature Industrial".
SITE
Site terletak di :
Jalan Boulevard Barat Raya No.Kav. 01, Kenangan Baru, Kec. Percut Sei Tuan, Kota Medan, Sumatera Utara 20371
Luas Site : ± 5200 m2
Keterangan :
Kecepatan Angin Dari Arah Barat Daya, Kecepatan 4 mph
Matahari Terbit : 06:26 AM
Matahari Tenggelam : 06:28 PM
Suara Terbesar : 42,3 Db (Sedang)
Penamaan "Osaka Nodigon Gate" berasal dari kata "Osaka" dan "Nodigon" dimana kata "Osaka" ini bedasarkan desain dari bangunan ini yang memiliki 3 titik utama, yaitu Office (Kantor), Selasar (Lorong), dan Tempat duduk ala Jepang, Sedangkan kata "Nodigon" saya dapatkan dari sebuah nama perusahaan yaitu "Nodigon Company" yang biasa mengurus tentang pembangunan perumahan seperti perumahan bertema Jepang dan lain-lain.
"KA" Berasal dari penggalan salah satu kata dalam bahasa Jepang yaitu "Koshikakeru", yang merupakan konjungsi dari kata Duduk
"SA" Berasal dari penggalan kata "Selasar", yang artinya Lorong atau Koridor
"O" Berasal dari kata "Office", yang artinya Kantor
FLOOR PLAN
SECTION A
OSAKA NODIGON GATE

THANK YOU

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