

SIV THYDA
PORTFOLIO
2020 - 2024

EDUCATION

MASTER OF SCIENCE IN BUILDING
CONSTRUCTION AND FACILITY
MANAGEMENT

GEORGIA INSTITUTE OF TECHNOLOGY
Aug. 2024 - Dec. 2025

BACHELOR OF SCIENCE IN
ARCHITECTURE
ZHEJIANG UNIVERSITY
Sep. 2016 - Jul. 2021

SKILLS

AUTODESK REVIT	9/10
AUTOCAD	9/10
PHOTOSHOP	7/10
ILLUSTRATOR	7/10
INDESIGN	7/10
SKETCHUP	7/10
MICROSOFT PROJECT	7/10
MICROSOFT WORD	9/10
MICROSOFT EXCEL	8/10

WORK EXPERIENCE

ARCHITECT
THE ROOM ARCHITECTURE AND DESIGN, CAMBODIA
Aug. 2021 - Jun. 2024

JUNIOR ARCHITECT
THE ROOM ARCHITECTURE AND DESIGN, CAMBODIA
Jul. 2020 - Feb. 2021

TEACHING ASSISTANT
ZHEJIANG UNIVERSITY, CHINA
Mar. 2020 - Jun. 2020

INTERN ARCHITECT
KOOLEN E&C. CO., LTD, CAMBODIA
Dec. 2019 - Feb. 2020

LANGUAGE

KHMER	NATIVE
ENGLISH	FLUENT
CHINESE	FLUENT

CONTENT

DAK DAM
MONDOLKIRI PROVINCE. GFA=300,000 sq ft

KHMER BEVERAGE
PHNOM PENH. GFA=33,000 sq ft

HARVEST COMMUNITY
KOMPOT PROVINCE. GFA=2,000 sq ft

OFFICE BUILDING & DATA CENTRE
PHNOM PENH. GFA=52,000 sq ft

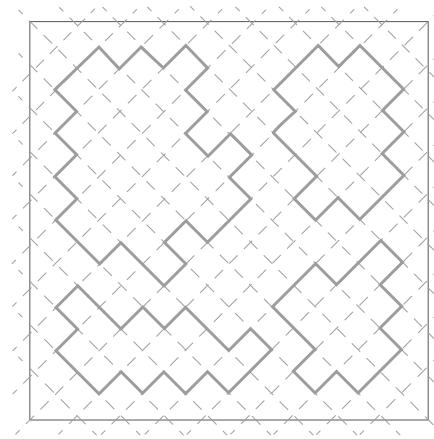
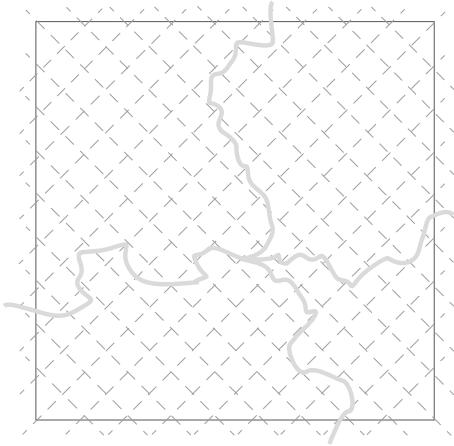
(S) SQUARES MALL
SAUDI ARABIA. GFA=200,000 sq ft

THE WAYPOINT RESIDENTIAL VILLA,
KEP PROVINCE. GFA=4,300 sq ft

THE CULINARY VILLAGE HOUSE
PHNOM PENH. GFA=5,400 sq ft

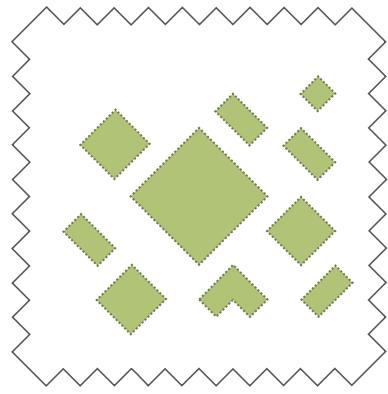
VIMEAN VILLA
PHNOM PENH. GFA=7,000 sq ft

RECREATIONAL CENTER
PHNOM PENH. GFA=77,000 sq ft

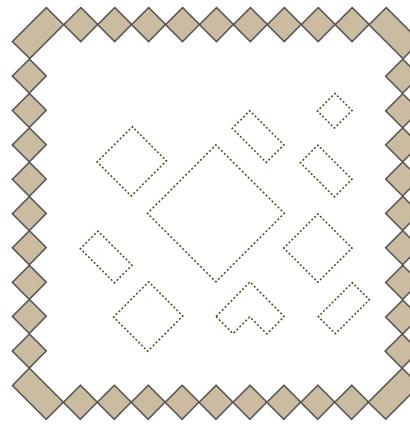


DAK DAM

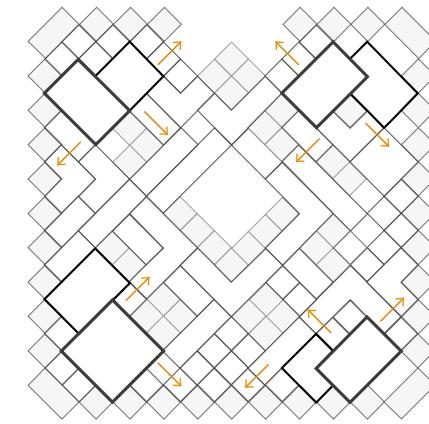
Taking inspiration from the rugged terrain and uneven topography formed by the region's mountains, and rivers. The undulating site allowed for varied and exciting spatial arrangements. Paths, like rivers, carve through the building creating a flow of people around the open-air ground floor and up towards the covered first floor.



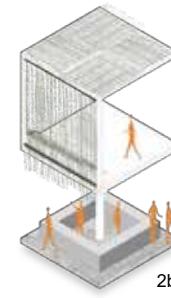
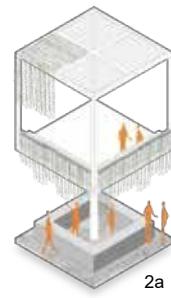
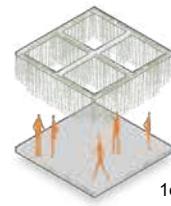
VOID OPENINGS FOR NATURAL
LIGHT & VENTILATION



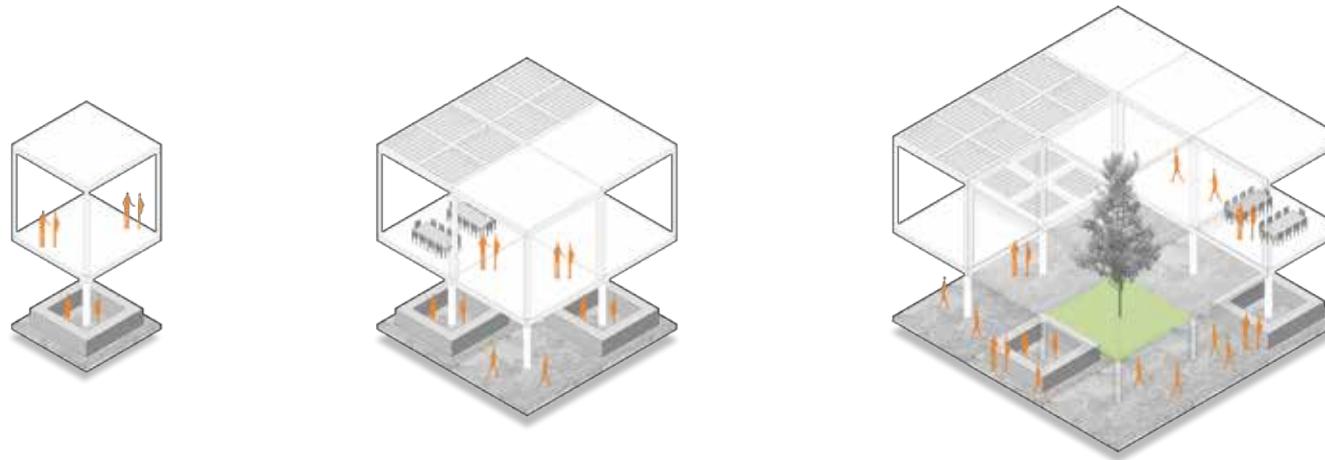
OVERHANG ROOF FOR SUN
PROTECTION



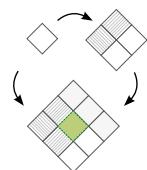
ROOF LEVEL LOWING DOWN TO
THE VOID FOR DRAINAGE



MODULAR DESIGN (5x5m)



BLOCK CONFIGURATION



The buildings layout allows for a versatile and flexible arrangement that can be adapted to match the needs of its occupants. The functions of these spaces can change with the wishes of the users providing them with a high degree of control over the buildings program.



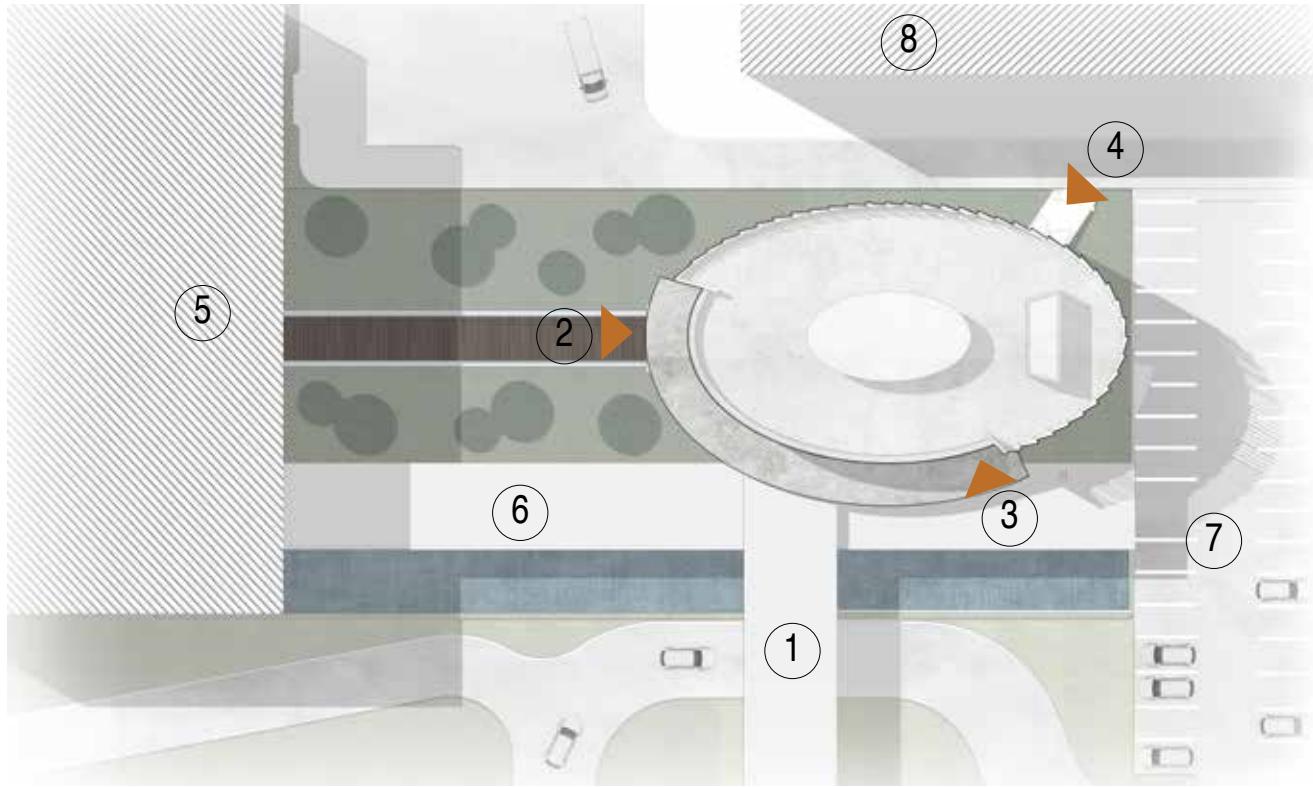




BREWERY

THE BREWERY CONCEPT SEEKS TO HIGHLIGHT SUSTAINABLE MODERN DESIGN, CLOSELY WITH THE VISUAL IMAGINATION AOF GREEN HOBS BIOLOGICAL NATURE.





MASTER PLAN  N

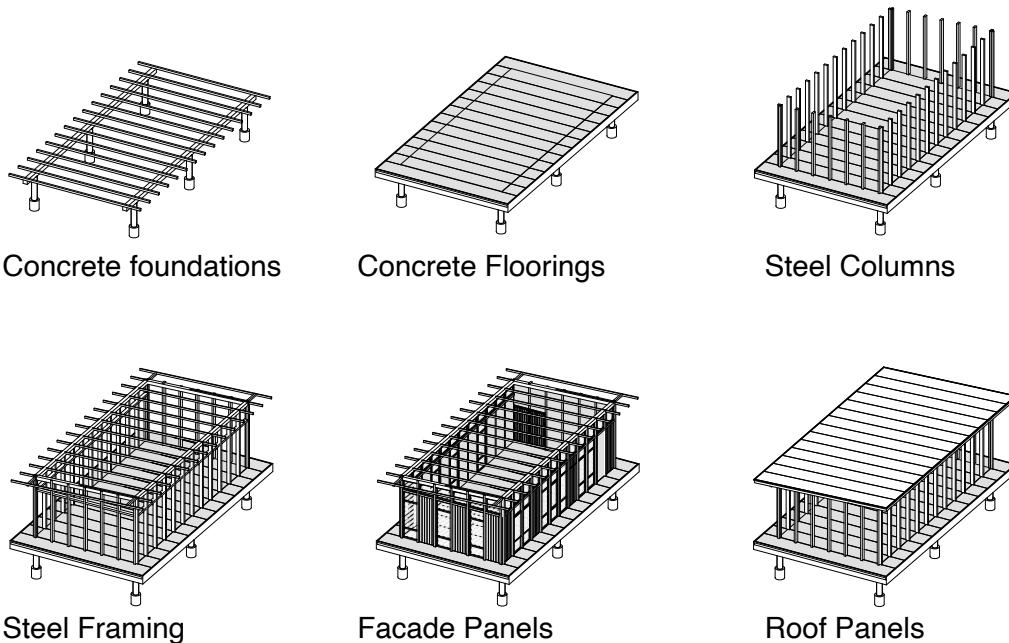
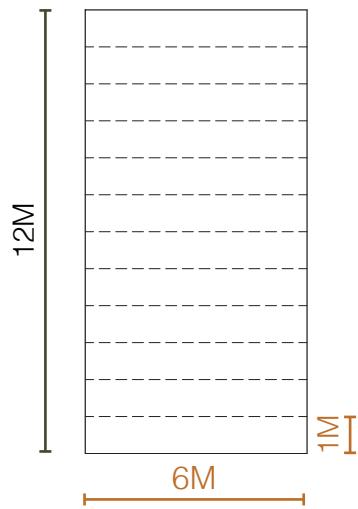
- 1. Drop Off Area
- 2. Main Entrance
- 3. Secondary Entrance
- 4. Technical Entrance
- 5. Welcome Centre
- 6. Existing Walkway
- 7. Parking Lot
- 8. Brew House

MATERIAL SELECTION

1. Textured Plaster
2. Stucco Paint
3. Concealed Double-Glazed Curtain Wall
4. Rose Gold Stainless Steel Tube
5. Antique Wood Decking

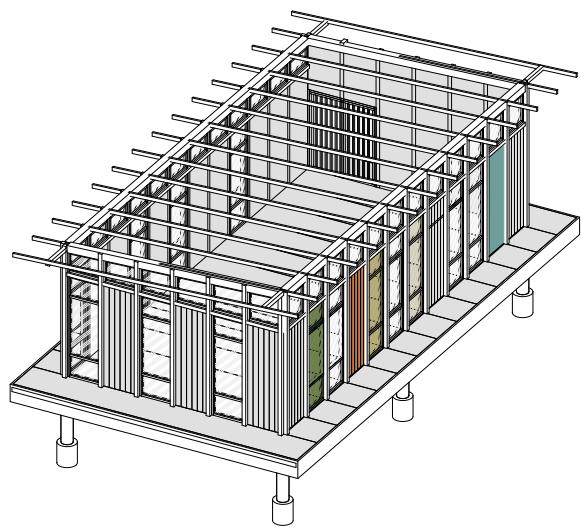






HARVEST COMMUNITY

PREFABRICATION: Utilizing advanced fabrication techniques to modernize the rustic, we transformed traditional architecture for a more contemporary existence. Resistant and lightweight, the materials are manufactured in a controlled manner in the factory and then transferred to the construction site, allowing for the rapid assembly of floors, walls, and ceilings, and generating a hermetic thermal and acoustic envelope.



TYPE OF FACADE PANELS



TYPE 1



TYPE 2



TYPE 3



TYPE 4



TYPE 5

Painted Wall

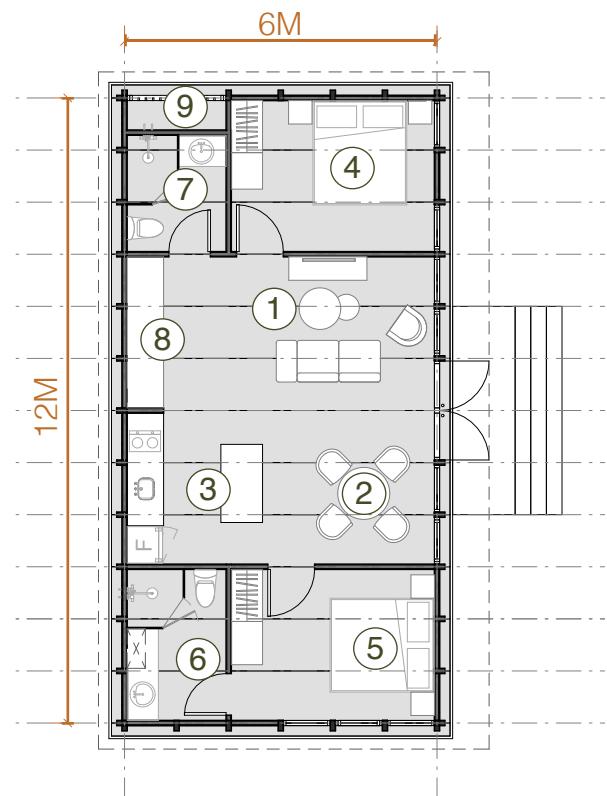
Wall Cladding

Casement
Window

Glass Door

Fixed Window

STANDARD UNIT



LEGEND

- | | |
|-------------------|--------|
| 1. Living Area | 15 Sqm |
| 2. Dinning | 12 Sqm |
| 3. Kitchen | 6 Sqm |
| 4. Bedroom 01 | 12 Sqm |
| 5. Bedroom 02 | 11 Sqm |
| 6. Toilet 01 | 4 Sqm |
| 7. Toilet 02 | 4 Sqm |
| 8. Storage | 2 Sqm |
| 9. Technical Room | 1 Sqm |

TOTAL AREA = 112 SQM



STANDARD ++ UNIT



LEGEND

- | | |
|------------------|--------|
| 1. Living Area | 24 Sqm |
| 2. Dinning | 20 Sqm |
| 3. Kitchen | 18 Sqm |
| 4. Guest Toilet | 3 Sqm |
| 5. Storage Room | 6 Sqm |
| 6. Technical Rm | 1 Sqm |
| 7. Living Area | 8 Sqm |
| 8. Bedroom 01 | 28 Sqm |
| 9. Bedroom 02 | 21 Sqm |
| 10. Toilet 01 | 8 Sqm |
| 11. Toilet 02 | 6 Sqm |
| 12. Storage | 1 Sqm |
| 13. Technical Rm | 1 Sqm |
| 14. Terrace | 42 Sqm |
| 15. Staircases | 6 Sqm |

TOTAL AREA = 192 SQM





STANDARD UNIT I OPT 1

STANDARD UNIT I OPT 2

STANDARD UNIT I OPT 3



STANDARD++ UNIT | FRONT VEIW

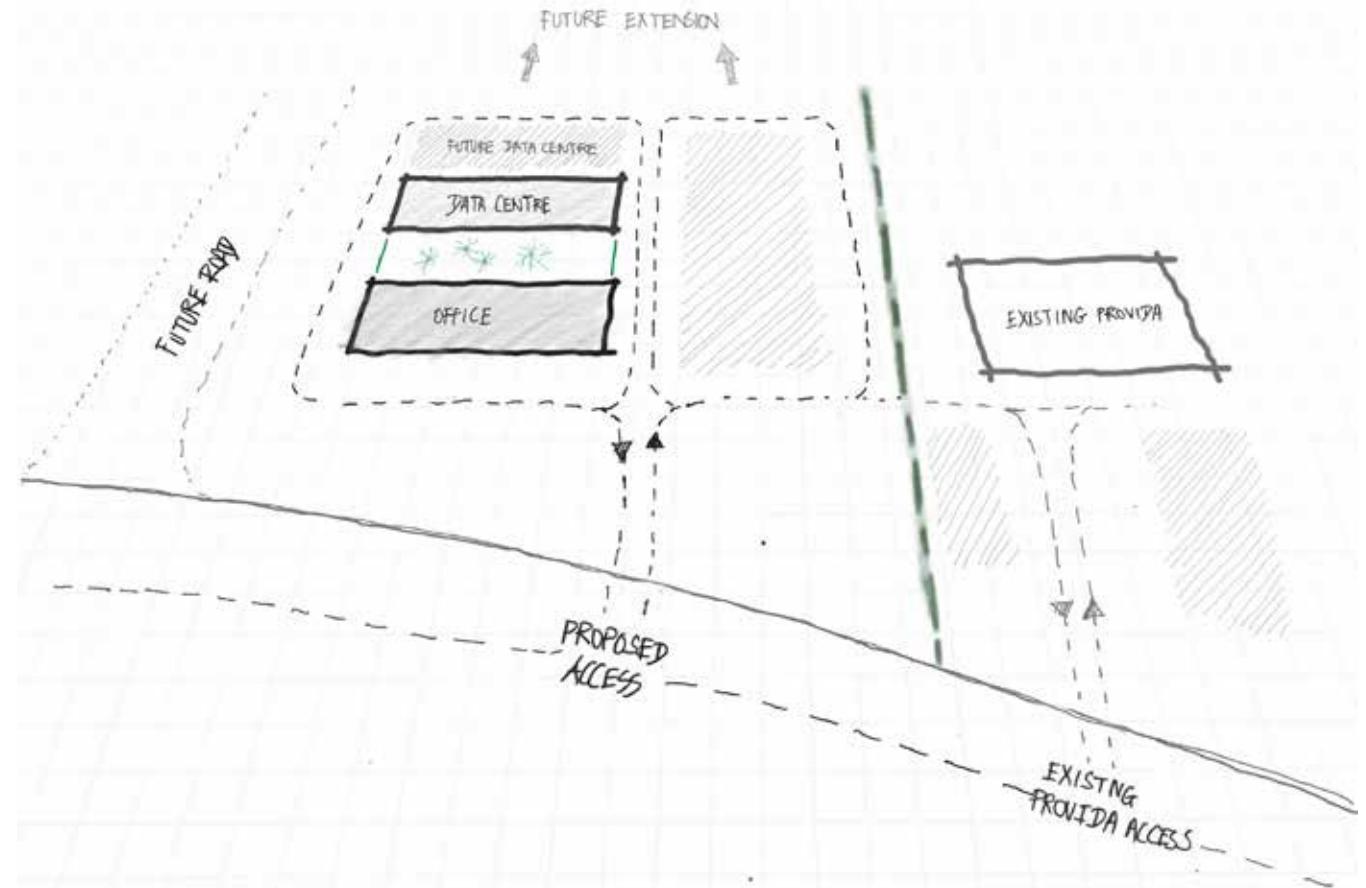


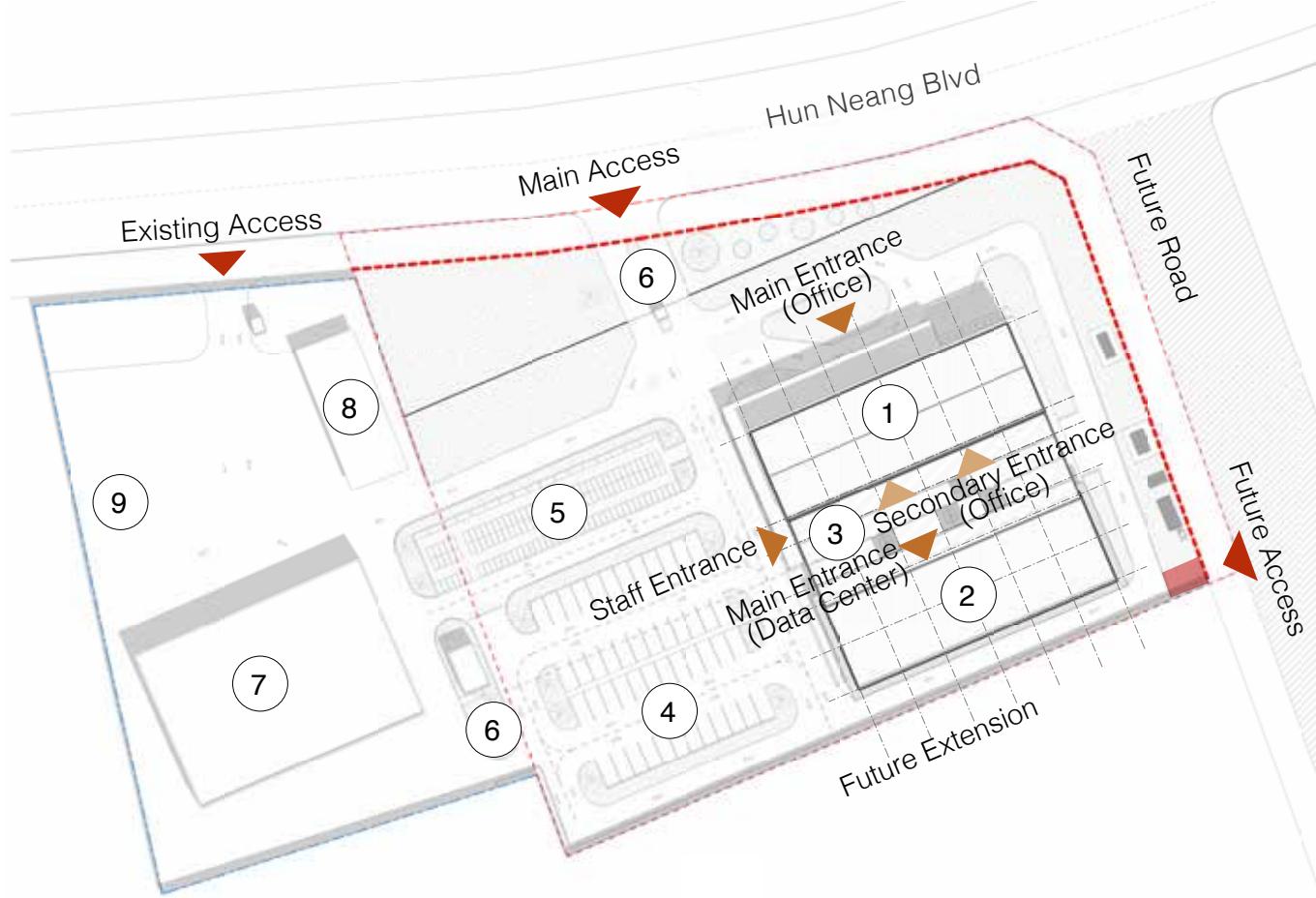
STANDARD++ UNIT | OPT 1

STANDARD++ UNIT | OPT 2

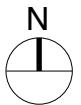
OFFICE & DATA CENTER

The challenge presented with this project is to build two new buildings with two different life spans. One is an office building for DP which will last a maximum 5 years and the other is a Data Centre which will stand for more than 25 years. The planning is mainly arranged with the consideration of the circulation between the existing PROVIDA, the new boundless plot as well as the future extension. With regards to the sustainable design, we present modular design with 7.6×7.6 -meter grid for the two buildings, giving a cost and time efficient construction. Additionally we propose a half covered social space, interlinked between the two buildings to boost creativity and strengthening communication between workers in an open green space whilst also providing a healthy work environment for DP staff.



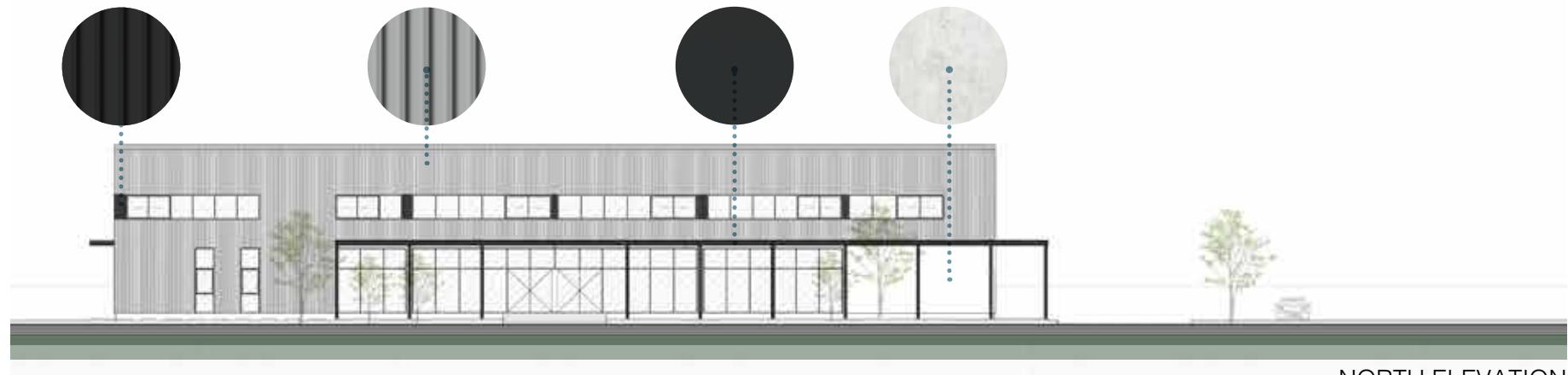


MASTER PLAN



AREA LOCATION

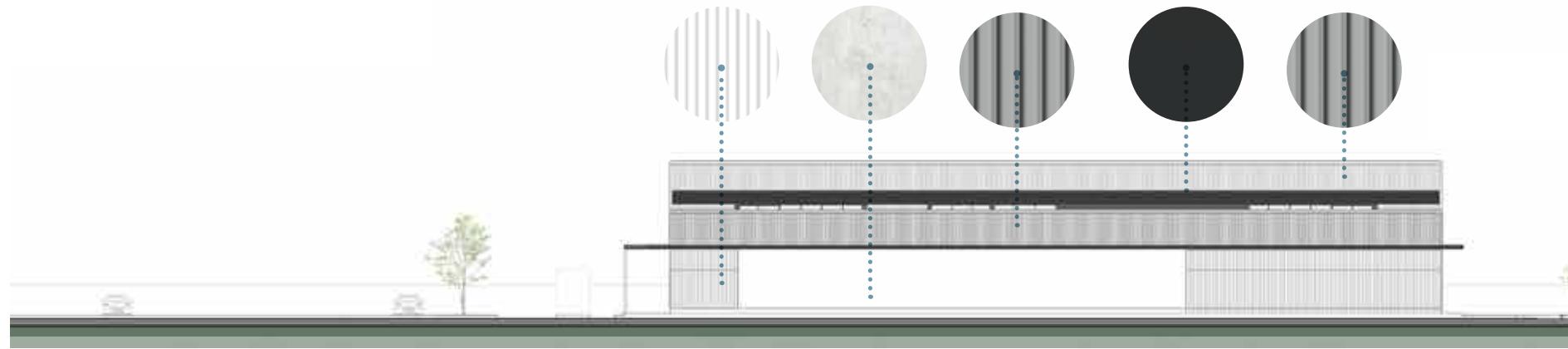
1. Office
2. Data center
3. Courtyard
4. Car Parking
5. Motorbike Parking
6. Guard House
7. Existing Office Building
8. Existing Car Parking
9. Existing Truck Parking



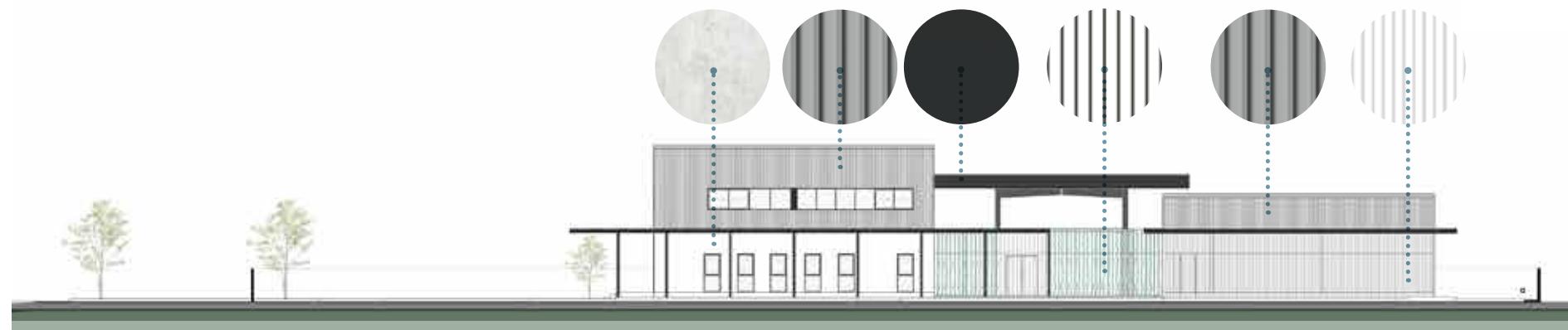
NORTH ELEVATION



WEST ELEVATION



SOUTH ELEVATION



EAST ELEVATION

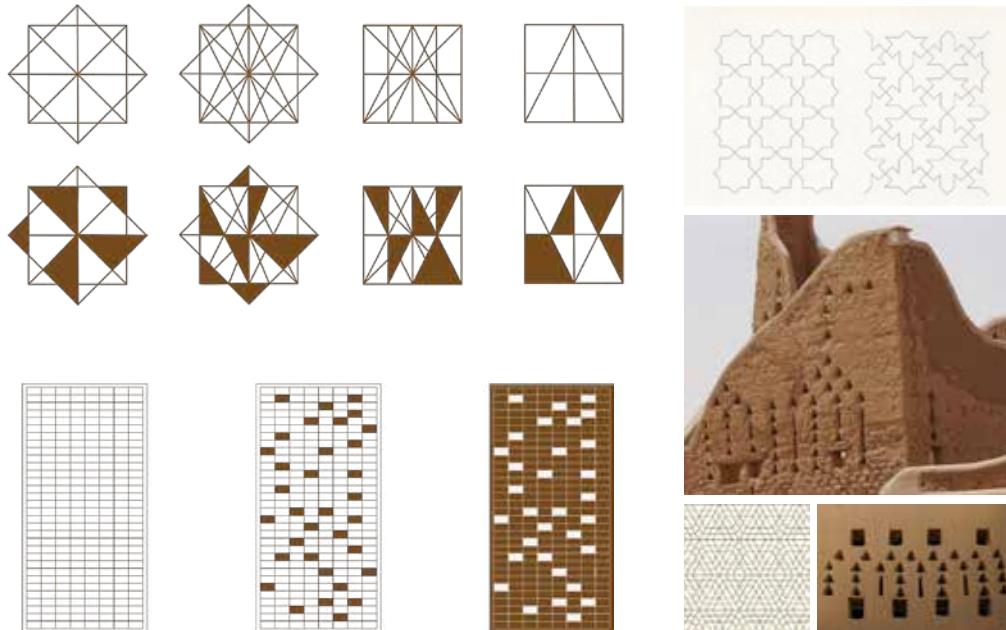




DPCG - THE ROOM

(S) SQUARE MALL

The project takes inspiration from the traditional local architecture of Saudi Arabia, which is characterized by cubic volumes in rammed earth, introverted patios and screen walls with rich geometric patterns. Respecting the cultural importance of architecture that provides privacy and protection from the sun was a key starting point of the design. The structure's bold visual identity comes from reinterpreting the native desert landscape and its distinctive sand colors, which gives it a sense of belonging with the surroundings.



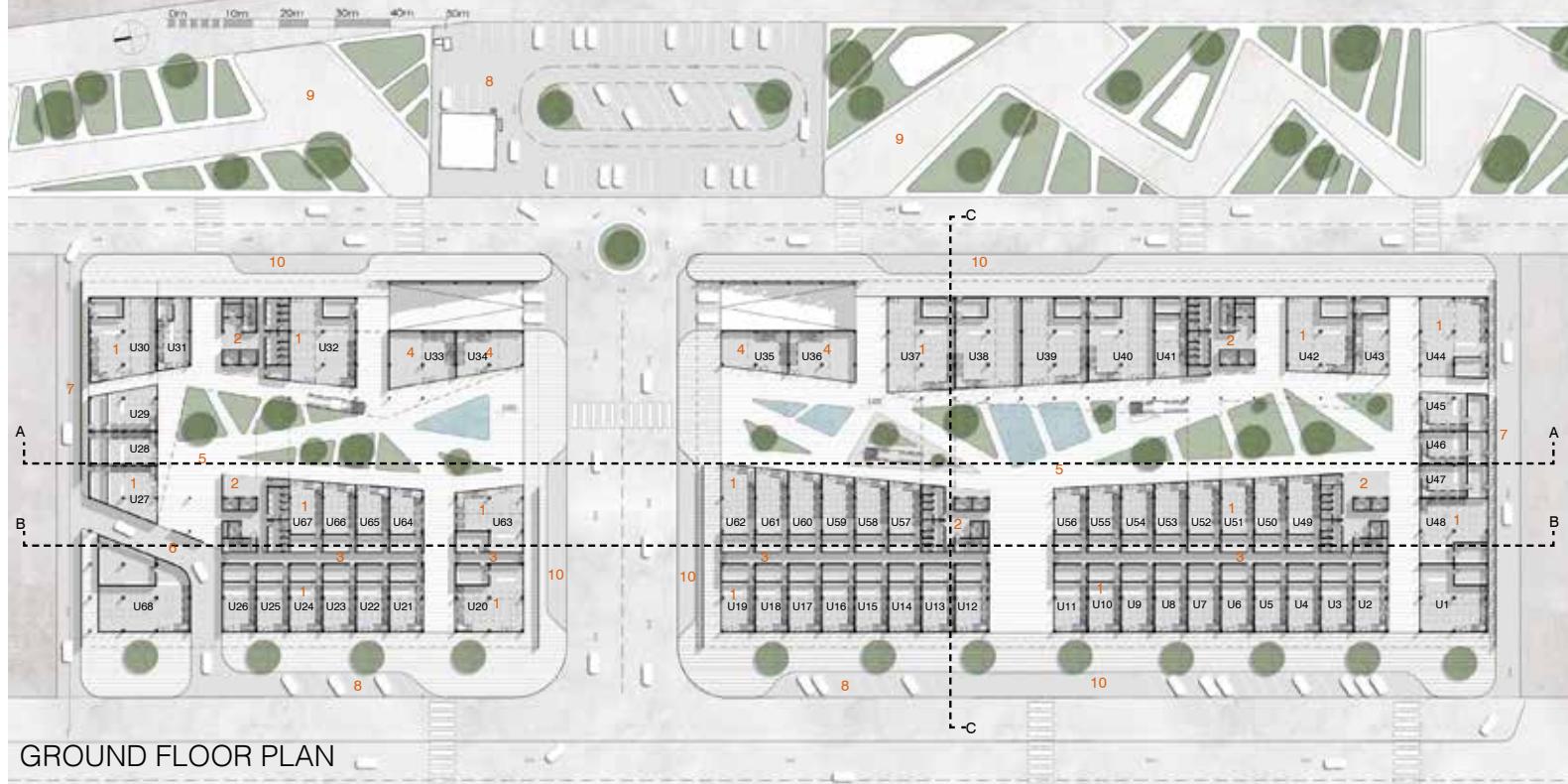


BUILDING DATA

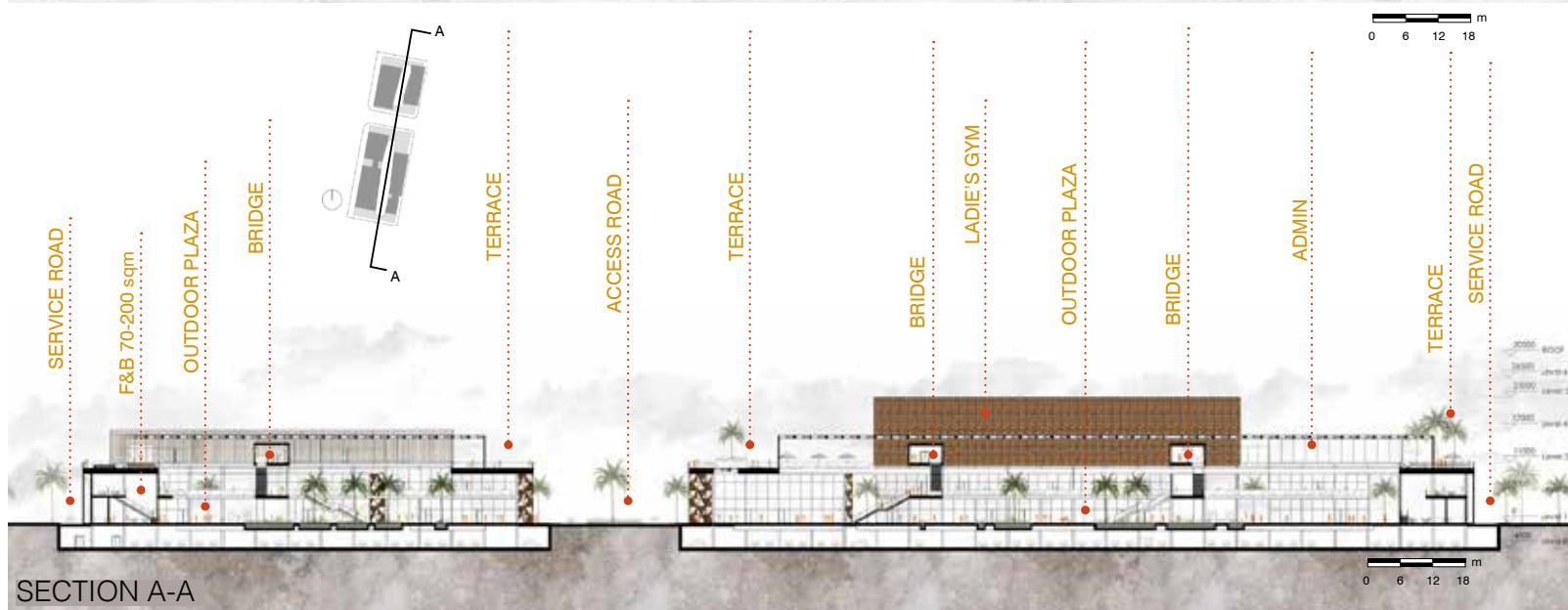
Tot. Land Area	= 19,497 Sqm
Tot. Built Up Area	= 30,962 Sqm
Basement Area	= 18,572 Sqm
Building Height	= 32 M
Car Park Lots	= 553
Commercial Units	= 81

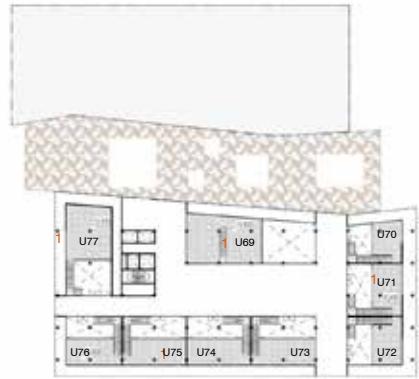
LEGEND

1. F&B Shops 70-200sqm With Kitchen
2. Lift And Toilet Block
3. Service Circulation
4. Retail Shops
5. Outdoor Plaza
6. Drive-Thru
7. Service Road
8. Parking
9. Public Park
10. Drop-Off

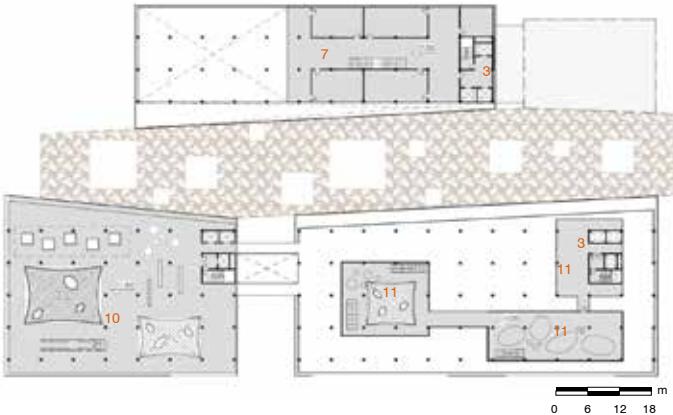


GROUND FLOOR PLAN



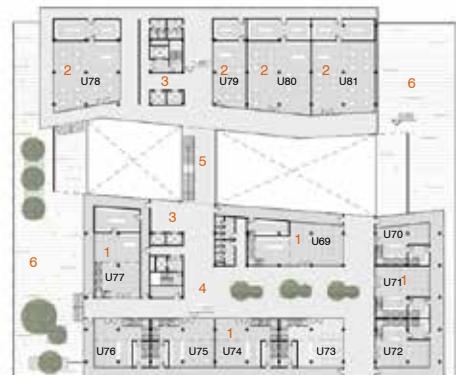


4TH FLOOR PLAN



LEGEND

1. F&B Shops With Mezzanine
 2. Premium Restaurant On Single Level
 3. Lift And Toilet Block
 4. Open Food Court
 5. Bridge
 6. Terrace
 7. Gym
 8. Gym Lockers/Toilets
 9. Cafeteria For Staff
 10. Kids Age 5-10+
 11. Kids Age 0-5
 12. Cafeteria/Juice Bar
 13. Admin/Office
 14. Staff Room



3RD FLOOR PLAN



This architectural floor plan illustrates the layout of the 3rd floor. The plan includes several labeled areas and sections:

- SECTION B-B**: A vertical section line on the left side.
- FOOD COURT**: Located in the upper central area.
- F&B 70-200 sqm**: Specific room sizes indicated.
- ACCESS ROAD**: A dashed yellow line indicating a road or path.
- KIDS AGE 5-10**: A dashed yellow line indicating a specific area for children aged 5-10.
- KIDS AGE 0-5**: A dashed yellow line indicating a specific area for children aged 0-5.
- CAFETERIA**: Located in the upper right area.
- TERRACE**: Multiple terrace areas located along the perimeter.
- SERVICE ROAD**: A dashed yellow line indicating a service road.
- DRIVE THRU**: A dashed yellow line indicating a drive-thru lane.
- SECTION B-B**: A vertical section line on the right side.

Scale bars at the top right indicate distances from 0 to 18 meters, and a north arrow is present.

MATERIAL SELECTION



Rust Powder Coat
Aluminum Screen



Perforated Corten
Steel Sheets



Flexible Ceramic
Sheets



Steel



Pigmented
Concrete



Textured Plaster



Textured Sandstone
Shade 1



Tiled Sandstone
Shade 2



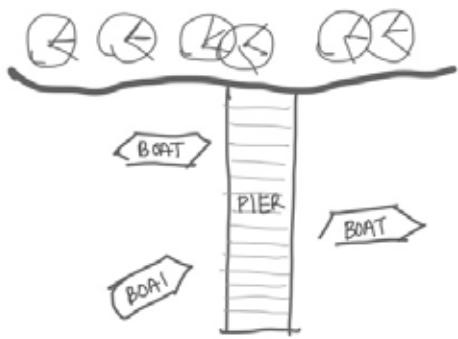


THE WAYPOINT RESIDENTIAL VILLA

THE VILLA SEEKS TO OFFER LOCAL PAST MEANINGS, TOGETHER WITH THE CALMNESS BEAUTIFUL SEASCAPE.

Kep, a town that is filled with heritage and vast seascape, accompanied with piers, wooden boats, and palm trees is a perfect place for weekend refuge. The design intent is to organize a space with its size and form by relating the functions, privacy and security that harmonizes with the calm scenery.

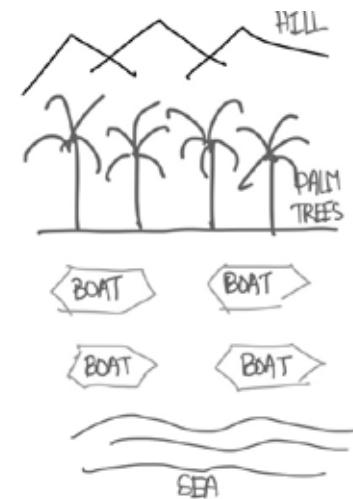




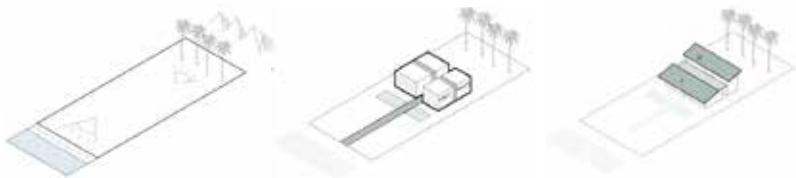
LOCAL PAST MEANINGS



SEASCAPE VIEW



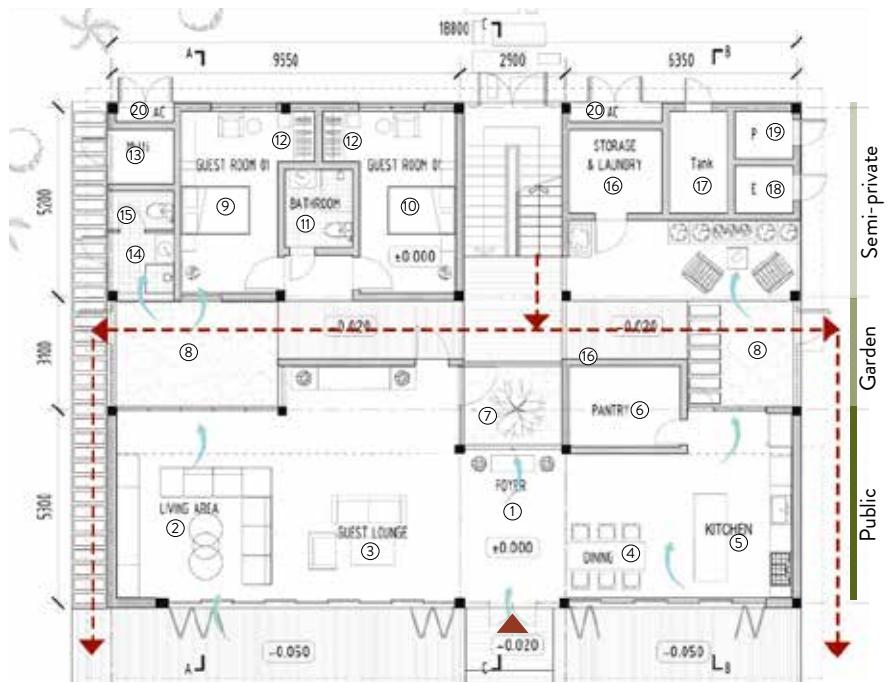
RETAIN UNSPOILED VIEW



The site stands near the beach which has a nice view of the sea and hills together with the existing local palm trees, which is a nice place to stay. The idea of local past meanings that has a boat parking next to the pier, implementing the design of the layout that all of the spaces are organized next to the central garden way. A sloping roof that is completely covered by greenery will give a calm impression together with the seascape and its surrounding. Additionally, the roof is designed with a terrace and an opening courtyard in order not to spoil the sea view and the surrounding landscape.

In terms of privacy, security, and noise reduction, tall trees are planted around the house with the consideration of letting the cooling breeze of the sea flow through the entire house. The pool is placed at the front of the house to provide a nice view of the seascape and also for the evaporative cooling purpose, and with a shower space that is next to the pool with trees planted around for privacy. The access to the land is next to the road, with the semi-parking space which is near the fence in consideration of easy access.

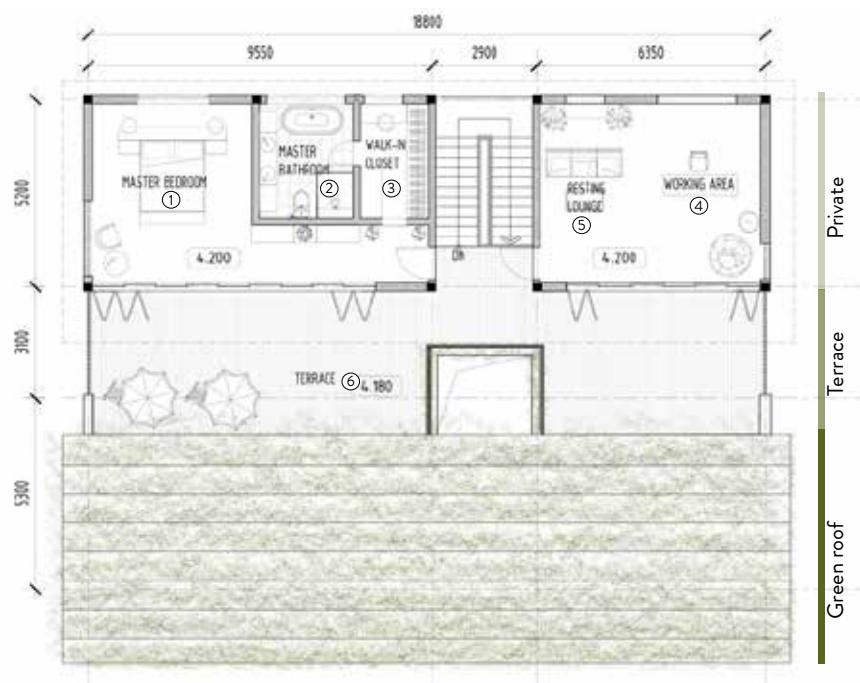




GROUND FLOOR LAYOUT

— Energy Use
— Air Flow Circulation

1. Foyer
2. Living area
3. Guest Lounge
4. Dining area
5. Kitchen
6. Pantry
7. Courtyard
8. Gardening
9. Guest bedroom 1
10. Guest bedroom 2
11. Guest bathroom 2
12. Closet
13. Multi-function Room
14. Shower
15. Toilet
16. Storage & Laundry
17. Tank
18. Electrical Room
19. Pumping Room
20. AC Outdoor Unit



FIRST FLOOR LAYOUT

1. Master bedroom
2. Master bathroom
3. Closet
4. Working area
5. Resting lounge
6. Terrace

AERIAL VIEW



HOUSE FRONT VIEW



ENTRANCE VIEW

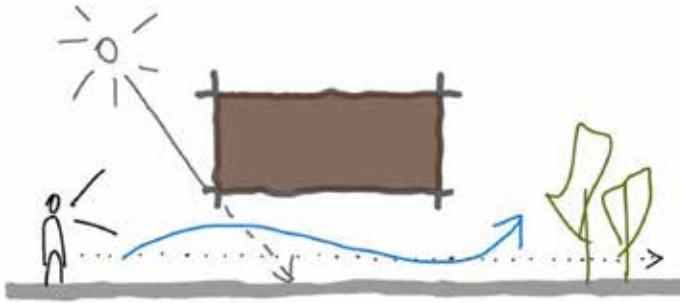




TERRACE VIEW I

TERRACE VIEW II

BACKYARD VIEW



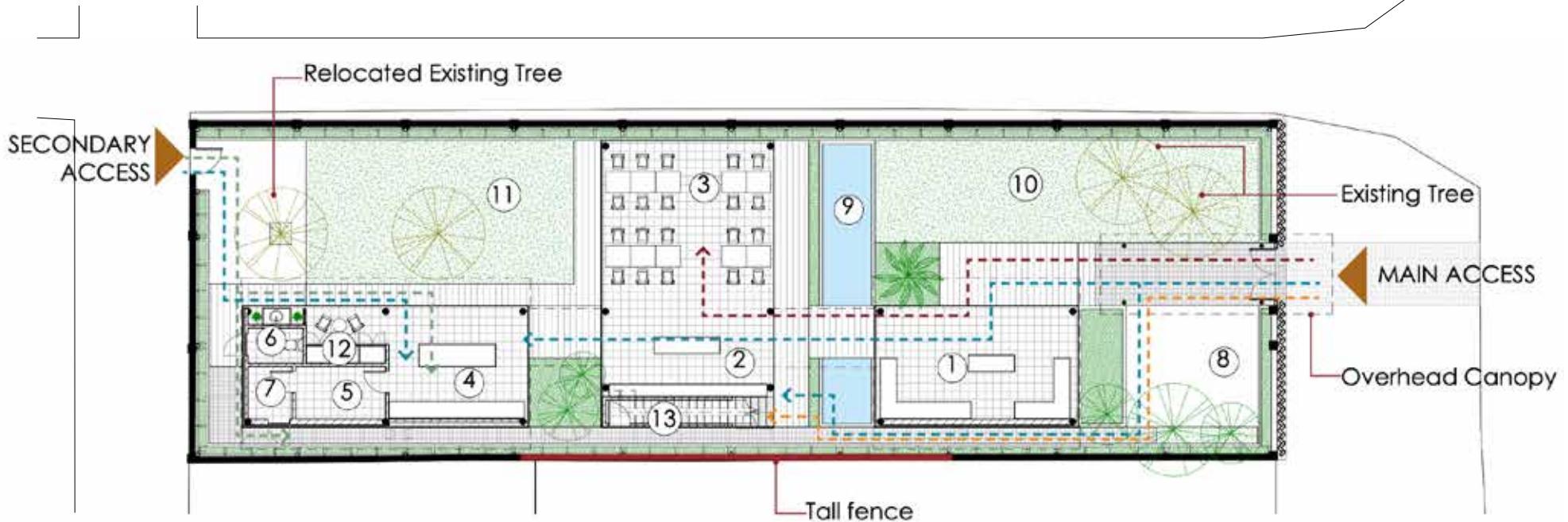
THE CULINARY VILLAGE HOUSE

THE ARCHITECTURAL DESIGN DRAWS INSPIRATION FROM FLOATING HOUSES AND THE NATURE OF REGULARITY OF THE MEKONG RIVER NEARBY.

This project is a contemporary restaurant with residential units, celebrating the richness of Khmer heritage. The restaurant features an inviting open floor plan that creates an immersive dining experience, where guests can savor authentic Khmer cuisine in a space that showcase traditional and modern architectural elements. The design prioritizes natural comfort through passive design considerations: cross-ventilation pathways promote cooling airflow, while carefully placed shading elements protect against the tropical sun. The structure's signature steep-sloped roof, a nod to traditional Khmer architecture, not only serves as an efficient solution for rainwater drainage but also enhances the building's visual connection to its cultural roots. The seamless integration of openness throughout the design creates fluid transitions between spaces, fostering a welcoming atmosphere that resonates with both diners and residents.



GROUND FLOOR LAYOUT



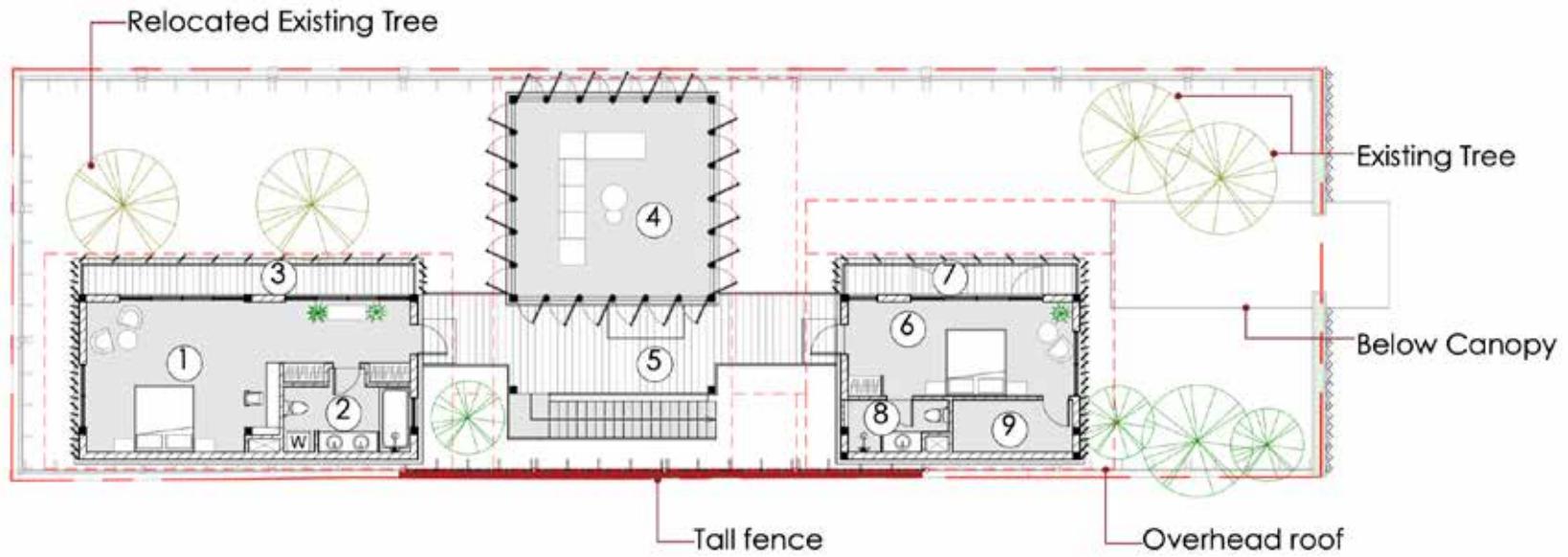
LEGEND

- | | |
|------------------------|----------------------|
| 1. FOOD SELLING CORNER | 8. BIKE PARKING |
| 2. BAR AREA | 9. FISH POND |
| 3. DINING AREA | 10. VEGETABLE GARDEN |
| 4. KITCHEN | 11. COURTYARD |
| 5. STORAGE 01 | 12. BBQ / STORAGE |
| 6. WASHROOM | 13. STORAGE 02 |
| 7. BIN ROOM | |

TRAFFIC FLOW

- | | |
|--|---------------------------------|
| █ | VISITORS |
| █ | GUESTS |
| █ | THE OWNER |
| █ | SUPPLY, WASTE, TECHNICAL STAFFS |

FIRST FLOOR LAYOUT



LEGEND

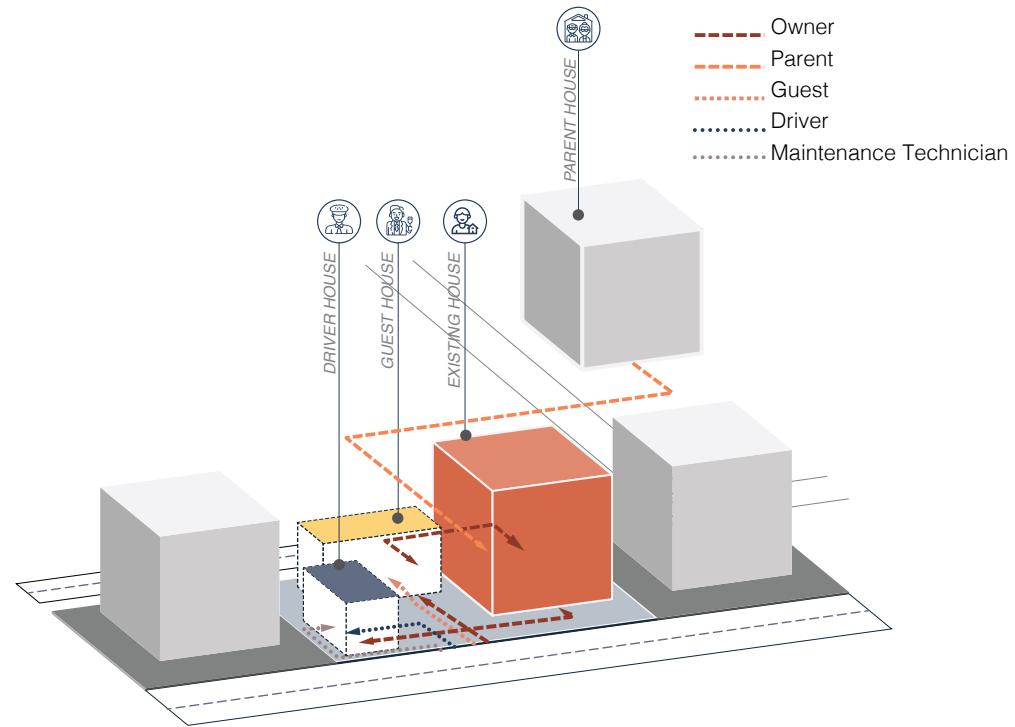
- | | |
|--------------------------------------|------------------|
| 1. MASTER BEDROOM | 6. GUEST BEDROOM |
| 2. MASTER BATHROOM | 7. BALCONY 01 |
| 3. BALCONY 01 | 8. BATHROOM |
| 4. LIVING ROOM/ MULTIFUNCTIONAL ROOM | 9. STORAGE |
| 5. TERRACE | |



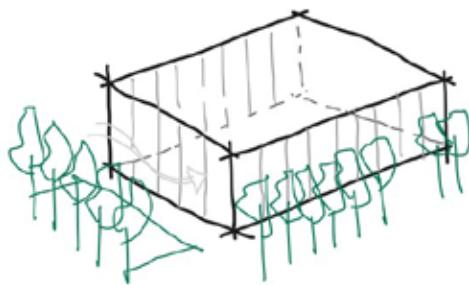


VIMEAN VILLA

The plot faces the main road with a small road at the back of the house. In addition, there is a 3-story existing villa, which is surrounded by neighbor houses. The project requires two new construction; a guest house and a driver's house. With the consideration of natural ventilation and sunlight as well as a large area for events, the design proposed a central courtyard face to the main access. For the client's convenience to access their parent house, a small gate is positioned near the back of the existing house.



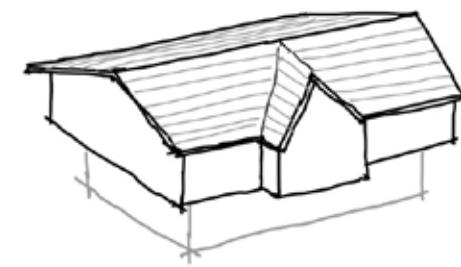
ARCHITECTURAL CONCEPT



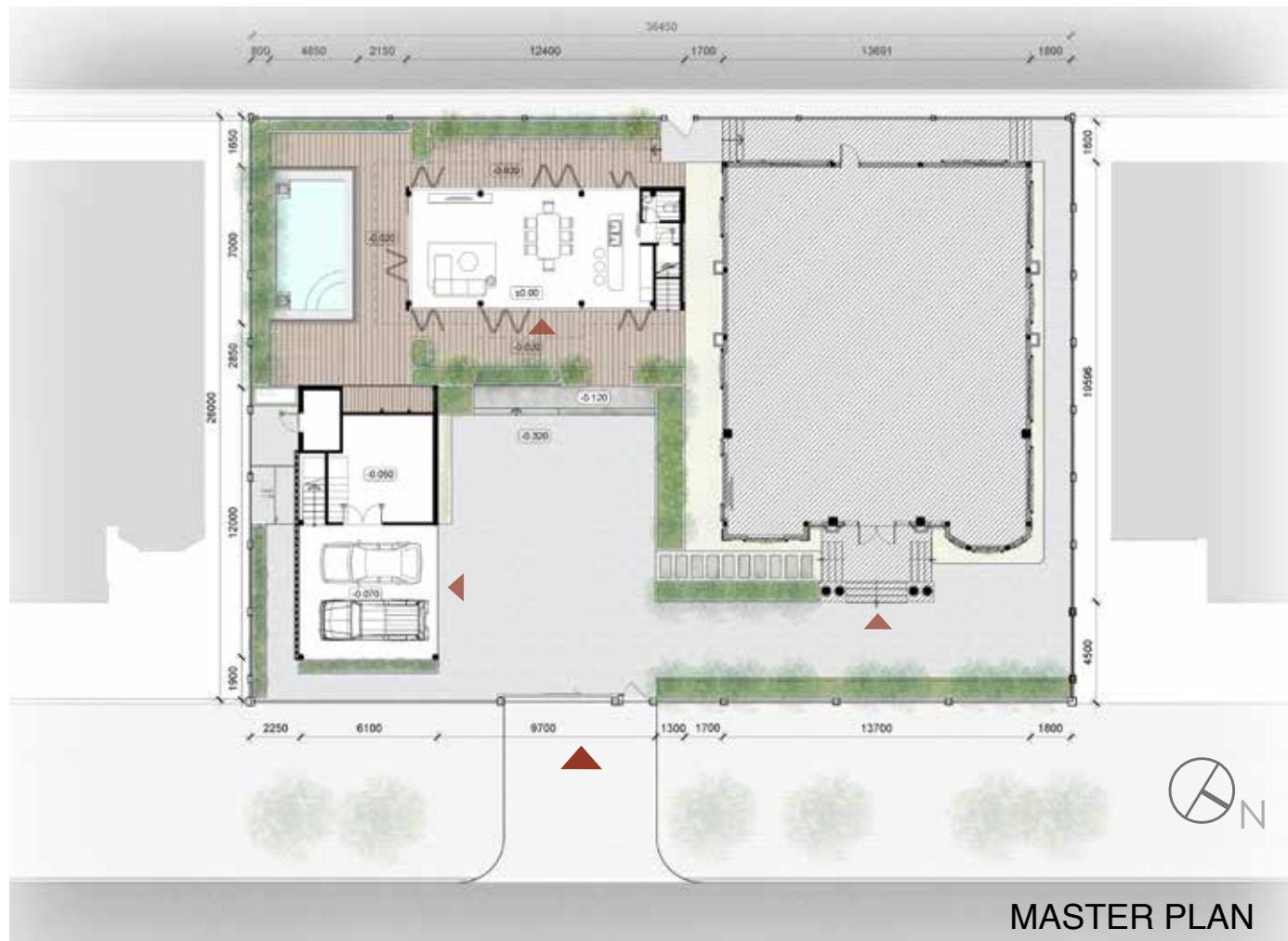
GLASS BOX

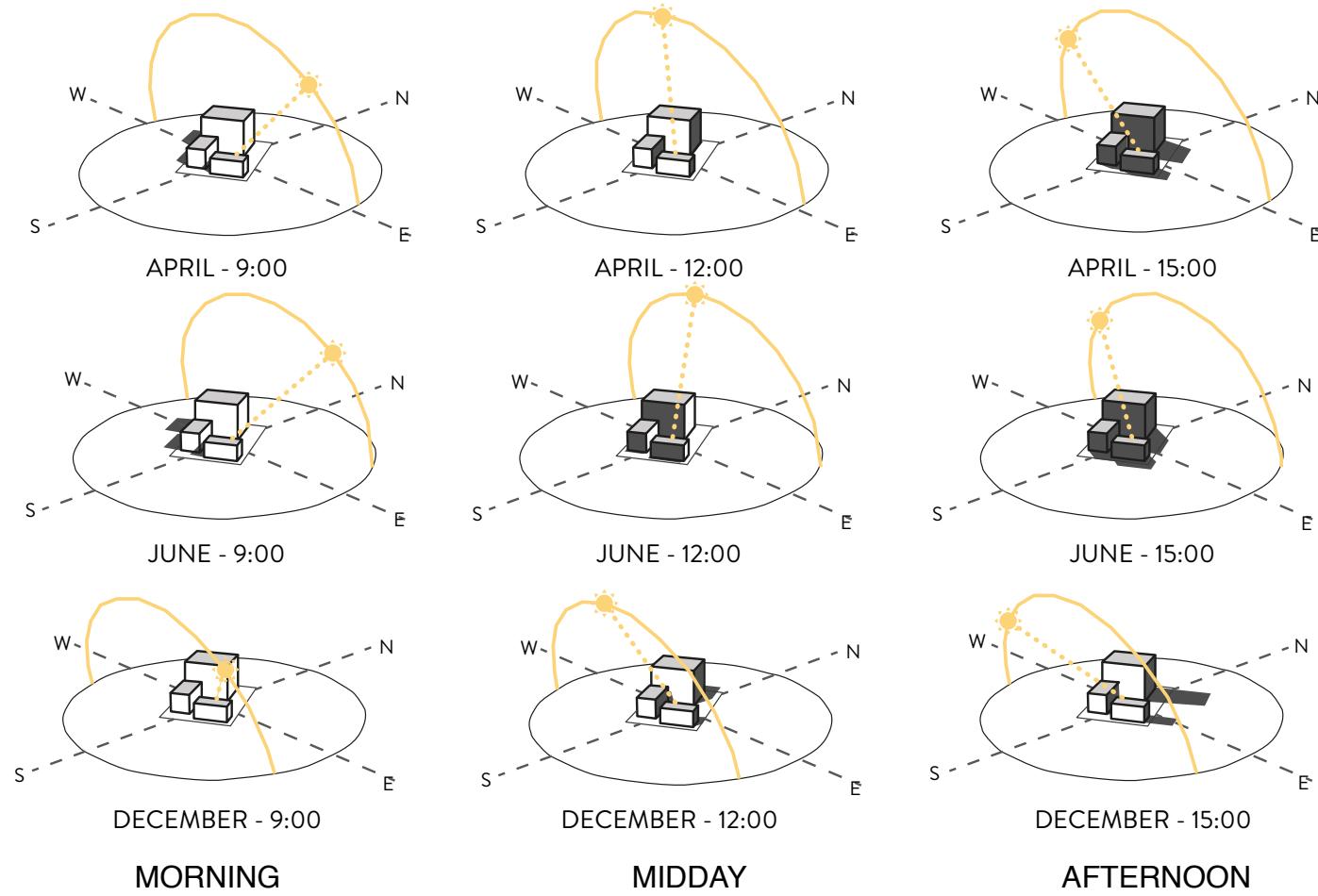


STAND OUT BOX



MODERN ROOF

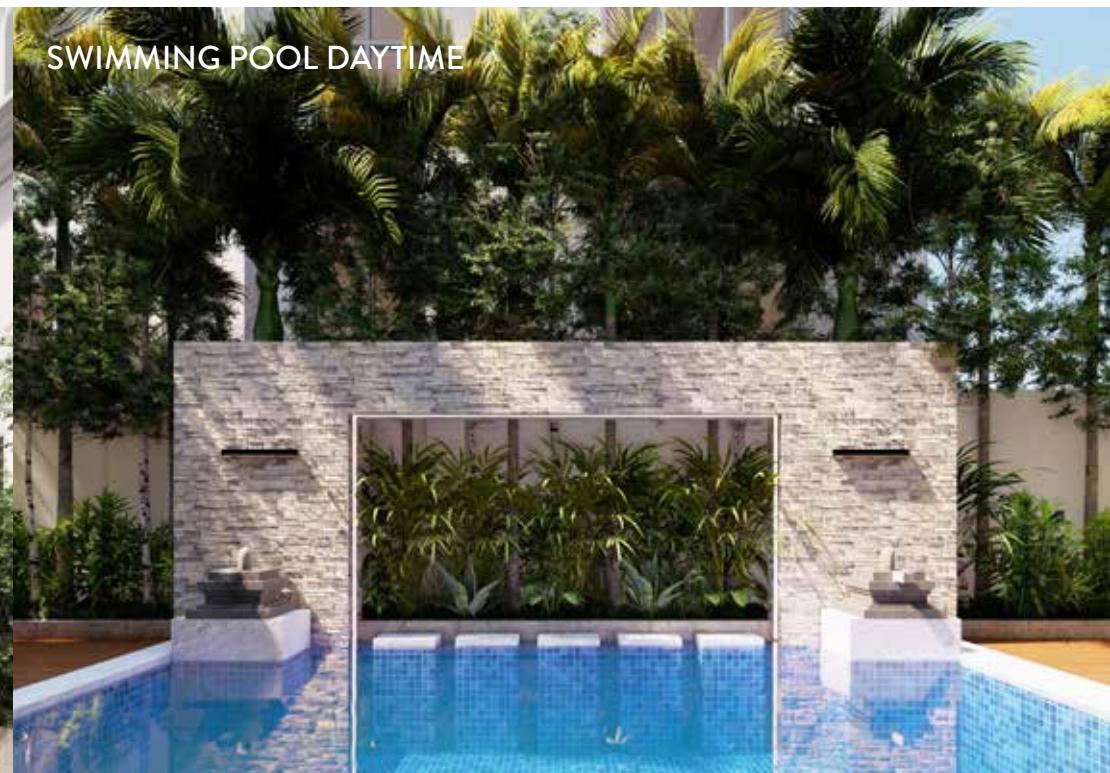




GUEST HOUSE ENTRANCE DAYTIME



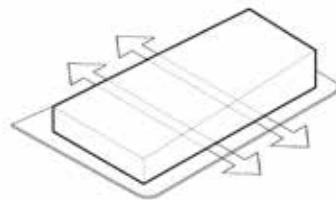
SWIMMING POOL DAYTIME



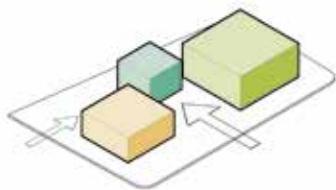


GUEST HOUSE WALKWAY

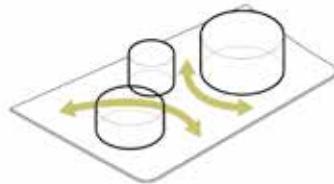
DRIVER HOUSE PENTHOUSE



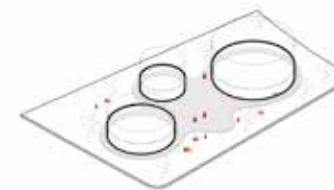
MAXIMIZING VIEW



FUNCTION ARRAGEMENT



MAXIMIZING AIR FLOW



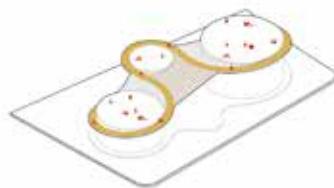
SPACE FLEXIBILITY



EXTENSION RAMP



WAYFINDING ENTRANCE



PUBLIC ROOF

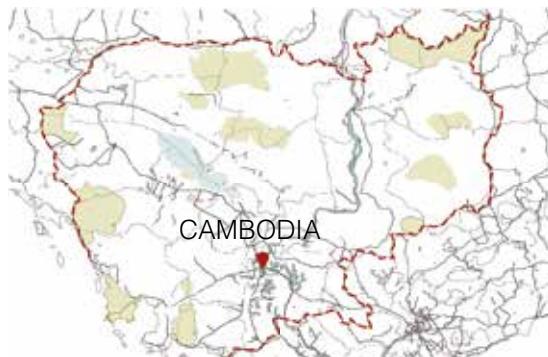


FACADE & MATERIAL

RECREATIONAL CENTER

CREATE A COMMUNITY CENTER WITH A MULTIFUNCTIONAL AND INCLUSIVE SPACE THAT INTEGRATES EDUCATION, WORK, TRAINING, HEALTH, AND LIFESTYLE, CONNECTING DIFFERENT GROUPS OF PEOPLE IN THE SOCIETY.

The building's position is centralized to the surroundings for the purpose of maximizing natural ventilation and lighting. In order to meet indoor environment quality and energy efficiency, the design pays more attention to cross ventilation and solar controls. A skylight is installed on the roof to provide natural light for the interior spaces, and shaded windows (low-E double layers windows) are installed in all directions to reduce solar heat gains. The design takes advantage of the local environment which is sunny and rainy, by installing PV panels on the canopy of the bike parking at the North of the site and installing an underground water tank to store rainwater which is then pumped to a water pond on the ground floor and for other purposes like irrigation and water flush. Furthermore, this pond can help cool down the temperature of the building and surroundings. Planting on the site provides shade, reduces temperature and at the same time allows a cooling breeze to indoor and outdoor areas. Cantilever is also used to provide shade for the seating spaces which are on the roof and the landscape area. The building's structure is a steel frame construction, and the main materials are wood and concrete. The combination of the white concrete and wood colour expresses the sequence of nature that responds to the river view.



LEGEND

KID PLAYGROUND

- 1. Kid Space Entrance
- 2. Kid Playground
- 3. Kid Rooms
- 4. Male Restroom
- 5. Female Restroom
- 6. Mechanical Room

RESTAURANT

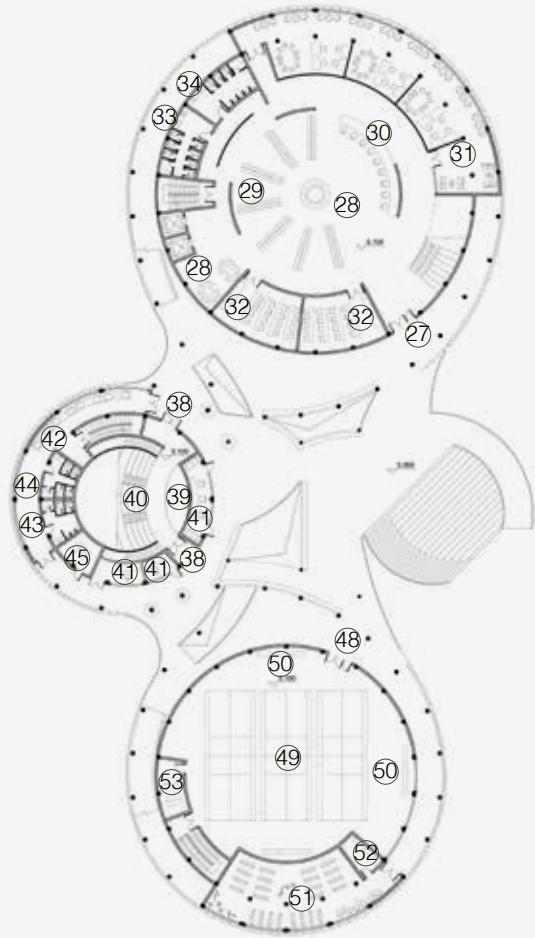
- 7. Restaurant Entrance
- 8. Reception
- 9. Indoor Dinning
- 10. Outdoor Dinning
- 11. Kitchen
- 12. Storage Room

GYMNASIUMS

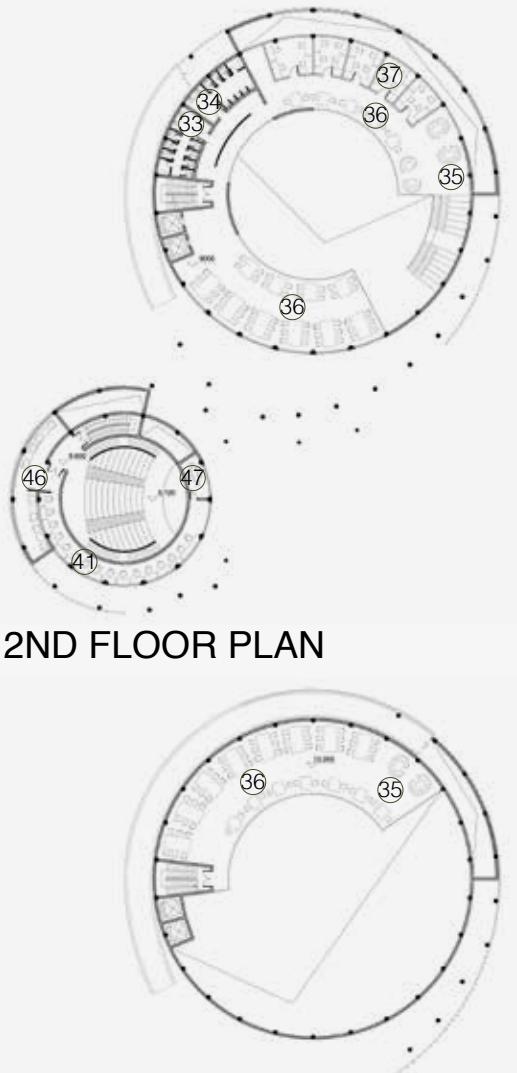
- 13. Gym Entrance
- 14. Reception
- 15. Lounge
- 16. Swimming Pool
- 17. Training Room
- 18. Male Locker Room
- 19. Female Locker Room
- 20. Male Shower Room
- 21. Female Shower Room
- 22. Male Toilets
- 23. Female Toilets
- 24. Sauna Room
- 25. Office Room
- 26. Mechanical Room



GROUND FLOOR PLAN



1ST FLOOR PLAN



2ND FLOOR PLAN

3RD FLOOR PLAN

LEGEND

LIBRARY

- 27. Library Entrance
- 28. Lounge
- 29. Book Storage
- 30. E-Learning
- 31. Activities Room
- 32. Meeting Room
- 33. Male Restroom
- 34. Female Restroom
- 35. Resting Lounge
- 36. Reading Space
- 37. Self-study Room

AUDITORIUM

- 38. Auditorium Entrance
- 39. Lecture Stage
- 40. Seating Place
- 41. Office Room
- 42. Resting Space
- 43. Male Restroom
- 44. Female Restroom
- 45. Mechanical Room
- 46. Office Lounge
- 47. Meeting Room

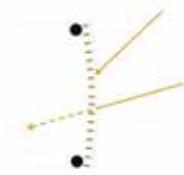
SPORT

- 48. Sport Entrance
- 49. Badminton Court
- 50. Resting Space
- 51. Yoga/Practice Room
- 52. Storage Room
- 53. Mechanical Room

PASSIVE DESIGN



Vertical Shading Tubes



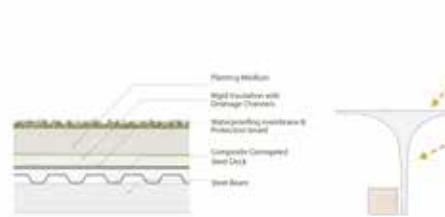
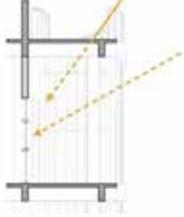
Doubled-glazing Window



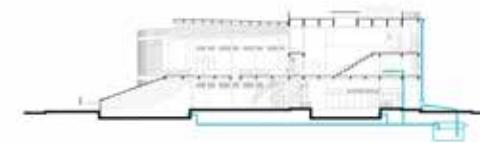
PV Panels



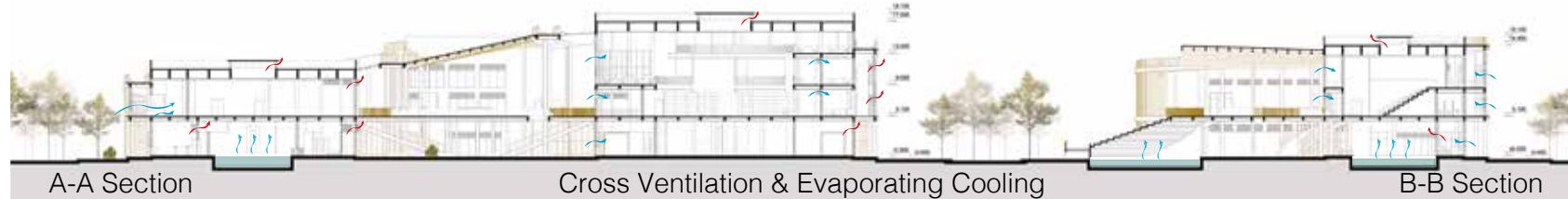
Horizontal Shading Ramp



Green Roof + Canopy



Water Collecting System





THANK YOU

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