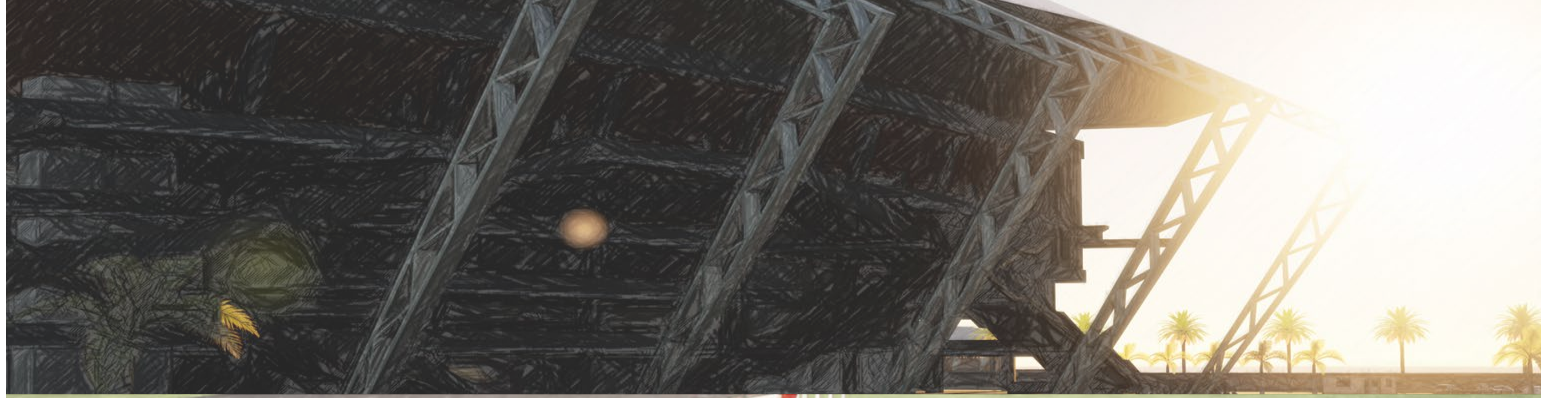
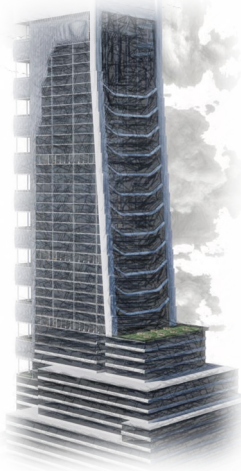


# PORTFOLIO 2025

## TUSHAR BHUSE





01

Parametric  
Pragmatism

Graduate  
Thesis  
(M.Arch)  
Spring 2025

May 2025

02

Recent Work  
from Internship

Little Red  
Rooster, FL  
(M.Arch)  
Fall 2024-  
Spring 2025



May 2025



03

Recreation  
Centre

University  
Project  
(M.Arch)  
Fall 2024

December 2024

04

Redevelopment  
of Flower  
Market

University  
Project  
(M.Arch)  
Spring 2024



May 2024



05

Affordable  
Housing

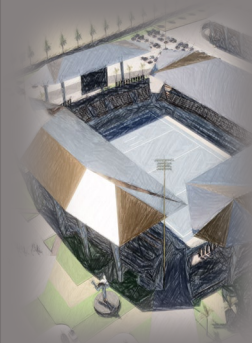
University  
Project  
(M.Arch)  
Fall 2023

December 2023

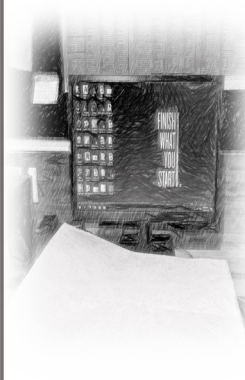
06

International  
Sports  
Complex

Undergrad  
Thesis  
(B.Arch)  
Semester 10



April 2023



07

Miscellaneous  
From  
Internship

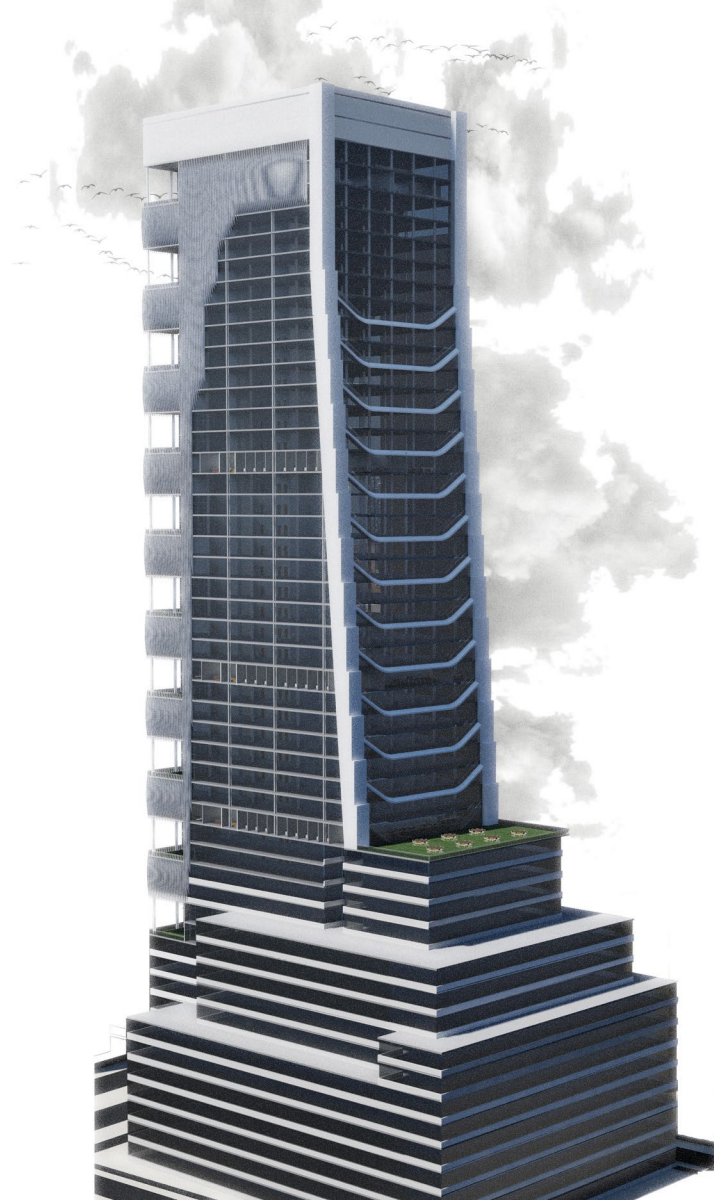
Professional  
Practice  
(B.Arch)  
Semester 8

April 2022

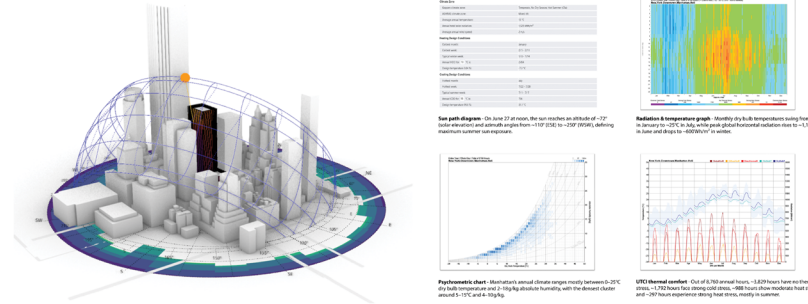


## Parametric Pragmatism Manhattan, NYC

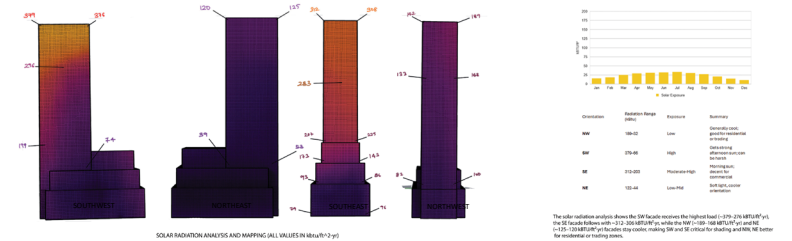
This thesis explores the sustainable transformation of late 20th-century high-rise buildings in carbon-intensive downtowns such as Boston, Chicago, and New York City. These aging glass towers, often energy-inefficient and underutilized, present a critical opportunity for adaptive reuse. The project selects a representative tower in Manhattan as a prototype and conducts a detailed study of solar radiation, visual performance, and programmatic efficiency. Through this analysis, the design proposes a strategic facade retrofit and interior reprogramming that reduce operational energy, enhance user comfort, and revitalize the building's presence in the urban fabric. The thesis presents a replicable model for rethinking the future of dense urban cores—prioritizing reuse over demolition and resilience over replacement.



## SITE CLIMATE ANALYSIS



## VISUAL ANALYSIS



This glare analysis shows the Daylight Glare Probability (DGP) results.

12.1% IDGII 12.1% of views experience disturbing glare for more than 5% of the time

notable place is:

79.3% blinds open if Even with blinds mostly open, glare is occurring.

The graphs show

**Top fly time of day:** Most glare happens midday (12–4 PM), especially in summer.

Bottom (by day of year) & Significant red and orange zones in July–August after con-

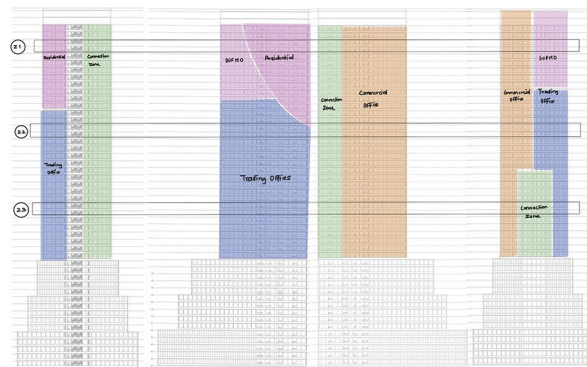
(10%) and even intolerable (10%) gain.

In short, glaze is a seasonal, afternoon-moisture issue, particularly in summer months.

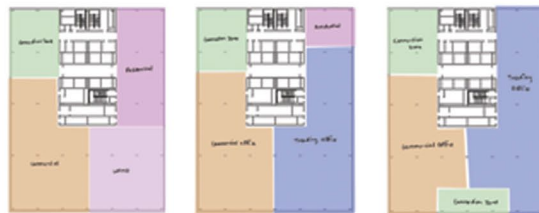


# CONCEPT AND PLANNING

## CONCEPT AND ZONING



NORTHWEST      NORTHEAST      SOUTHWEST      SOUTHEAST



Zone 1      Zone 2      Zone 3

- Commercial Offices (Duplex Offices)**
  - Office Rooms (more)
  - Workstations
  - Conference Rooms
  - Business Lounge
  - Reception Area
  - Sky Deck

- Trading Offices (Duplex Offices)**
  - Workstations (more)
  - Office Rooms
  - Conference Rooms
  - Business Lounge
  - Reception Area
  - Sky Deck

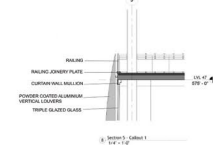
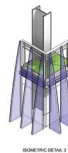
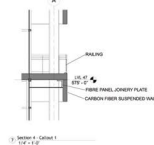
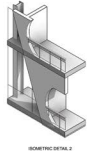
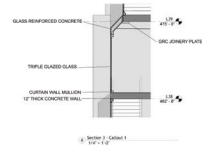
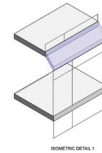
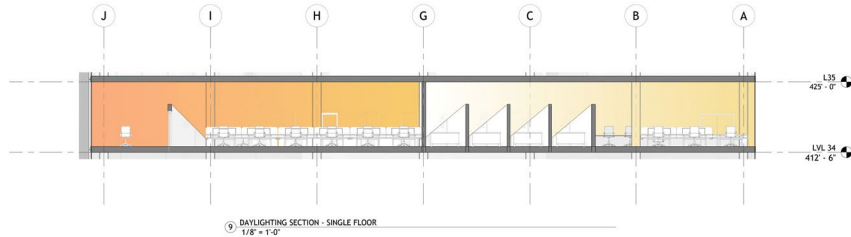
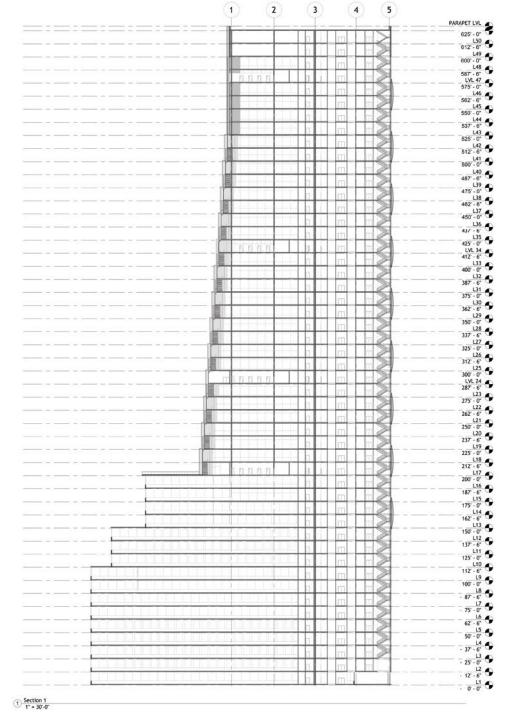
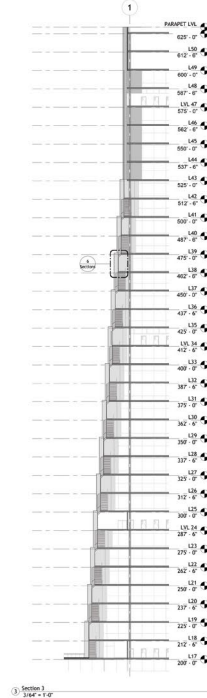
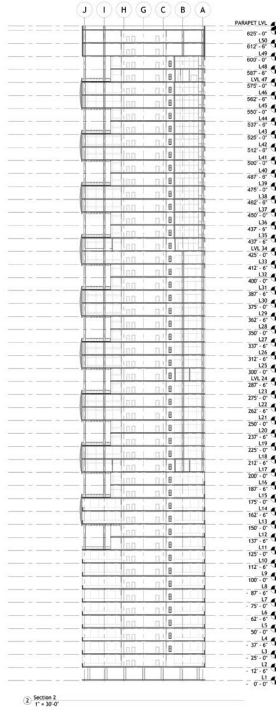
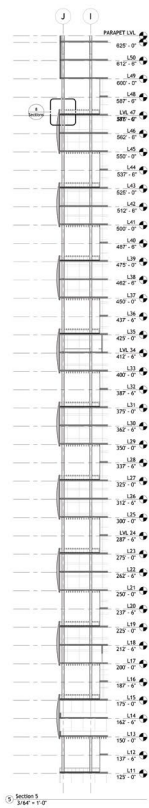
- Connection Zones (Shared Space)**
  - Business Lounges
  - Cafeteria
  - Recreational Space
  - Reading Room
  - Double Height Sky Deck
  - Lawn Terrace

- Residential**
  - 1BHK
  - 2BHK
  - 3BHK

- Connected to Residential**
  - WFH Office Pods
  - Studio Spaces
  - Small Business Offices

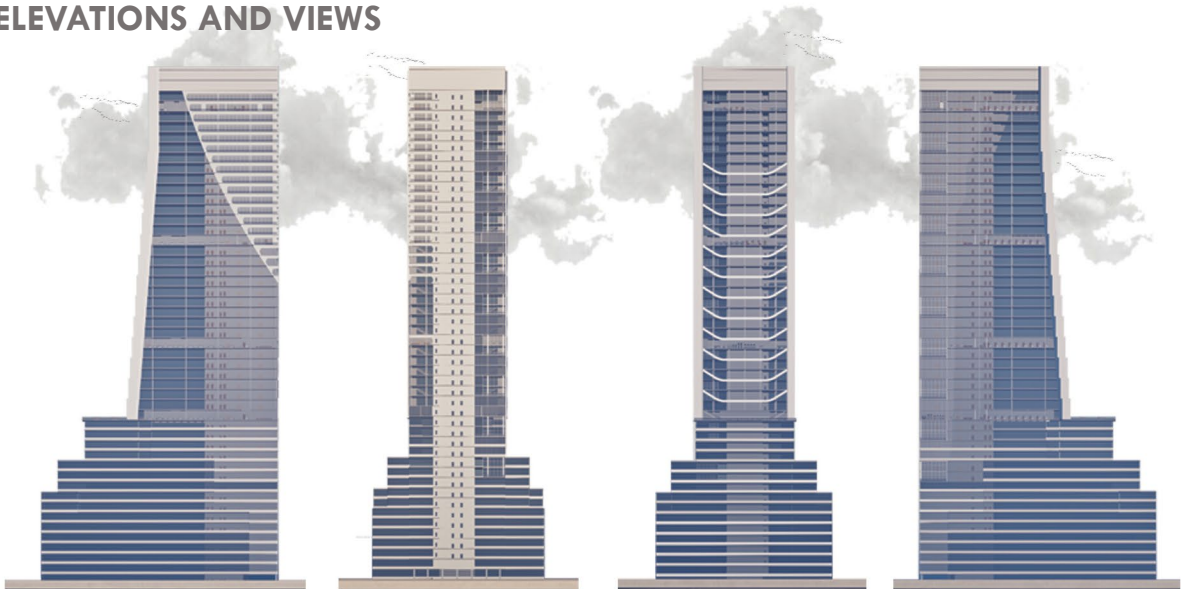


SECTIONS AND DETAILS





# ELEVATIONS AND VIEWS



NORTHEAST ELEVATION

NORTHWEST ELEVATION

SOUTHEAST ELEVATION

SOUTHWEST ELEVATION



DOUBLE HEIGHT SKY- DECK



READING ROOM- CONNECTION ZONE



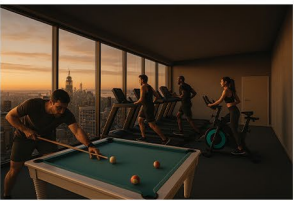
BEDROOM VIEW- RESIDENTIAL LVL 47



LAWN TERRACE- LVL 17



TRADING OFFICE



RECREATIONAL AREA- CONNECTION ZONE



Recent Work from

Internship

Little Red Rooster

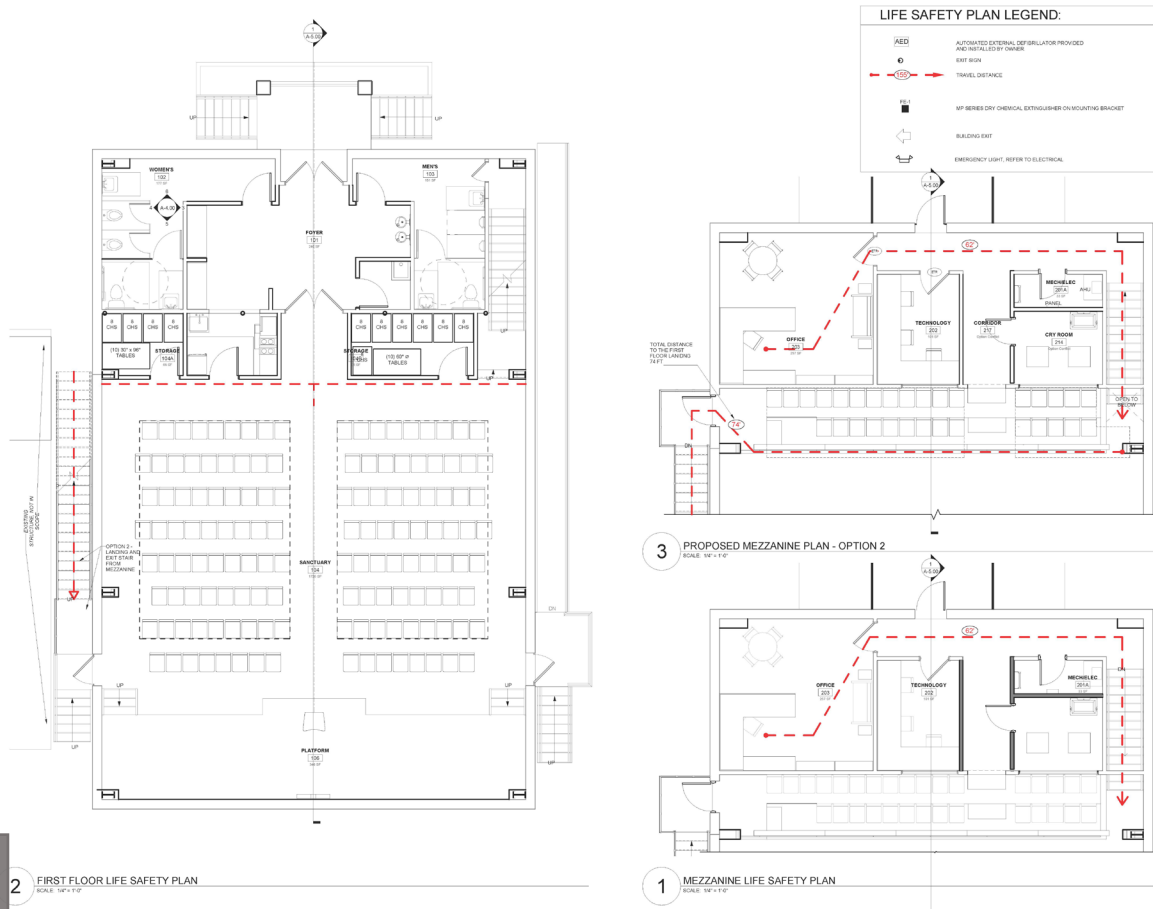
Big Pine Key, FL

As a remote architectural intern at Little Red Rooster, I am actively contributing to residential and light commercial projects in the Florida Keys. My responsibilities include schematic design, construction documentation, and architectural renderings using Revit, AutoCAD, and visualization tools. A key project includes design support for a local church, where I assisted in developing floor plans, elevations, and high-quality renderings. Working closely with the principal architect, I have been involved in site planning, spatial layout, and code coordination—gaining valuable experience in coastal architecture and Florida Building Code compliance.







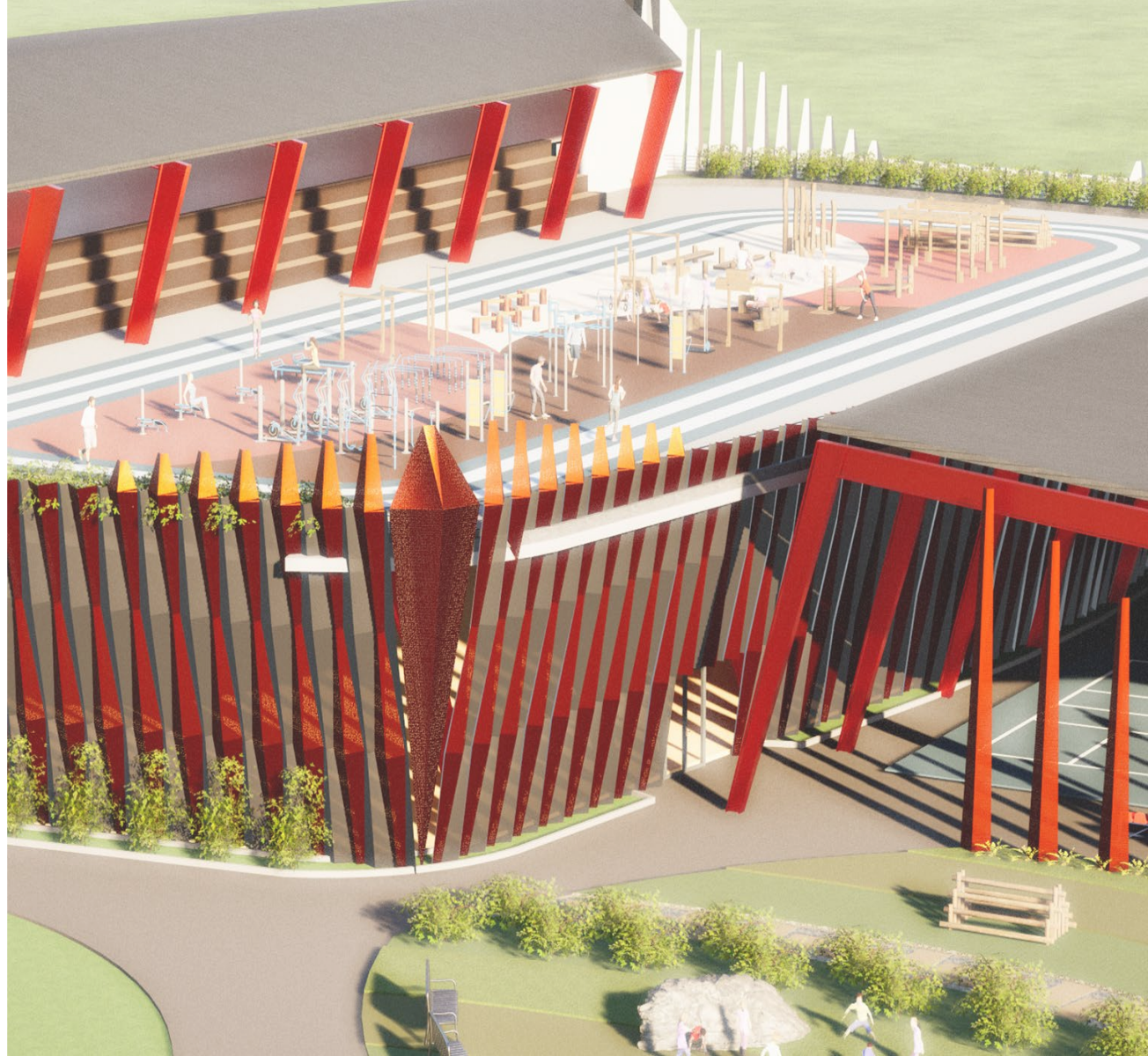
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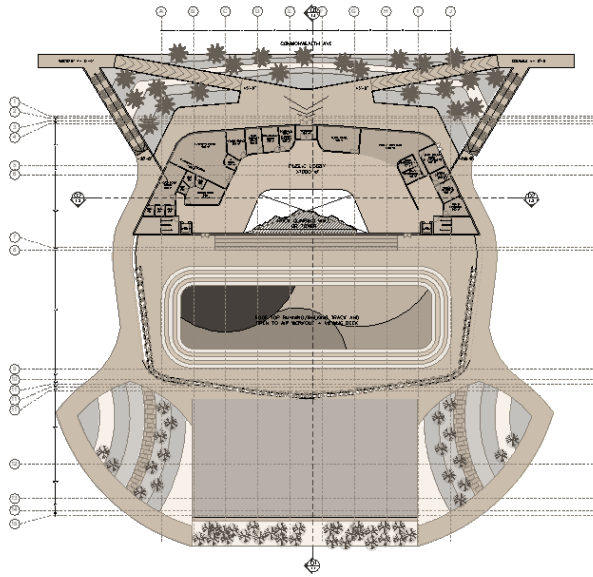


## Recreation Centre UMASS Amherst, MA

This project envisions the University of Massachusetts Recreation Center as a metal building, designed for the MBMA (Metal Building Manufacturers Association) competition. The focus is on spatial efficiency, sustainability, and user engagement, optimizing circulation and structural functionality through a two-floor layout that replaces an initial three-floor iteration to reduce spatial wastage. The primary focus was to change the way we look at metal buildings and design something irregular and out of the box.

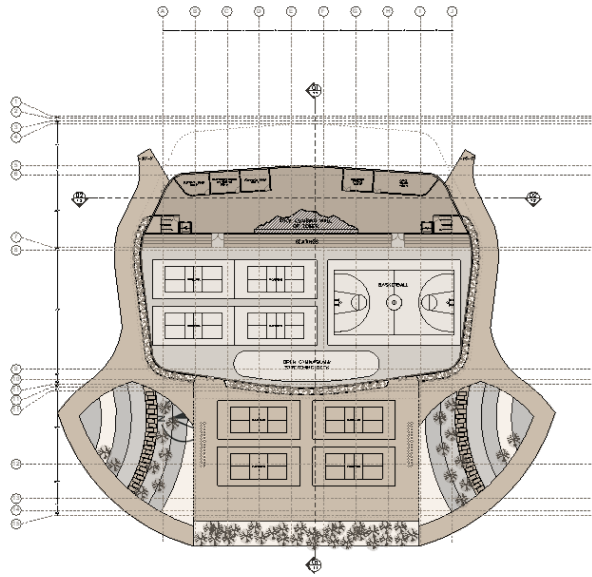
Leveraging the benefits of metal construction, the design prioritizes modularity, structural efficiency, and sustainability. Key features include daylighting strategies, a sun-oriented roof design, and eco-conscious material choices to enhance energy efficiency. A rooftop running track and open pickleball courts further establish the center as a vibrant hub for fitness and recreation





FIRST FLOOR PLAN

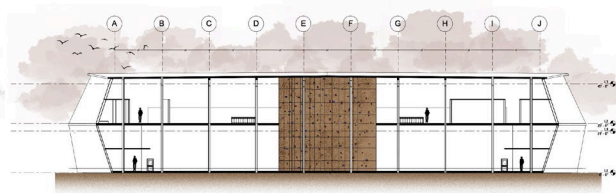
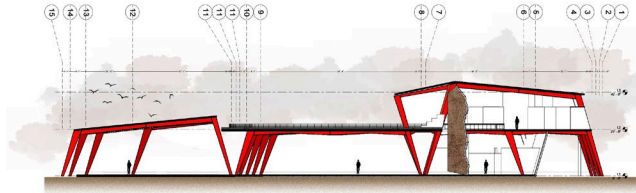
The first-floor features esports facilities, a café, retail spaces, administrative offices, changing rooms, and public restrooms, creating a dynamic social environment.



GROUND FLOOR PLAN

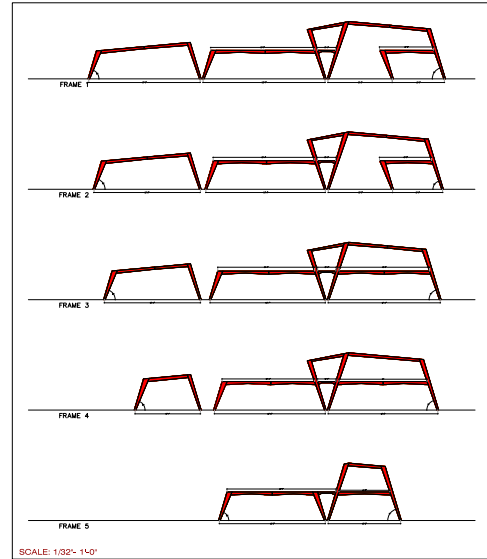
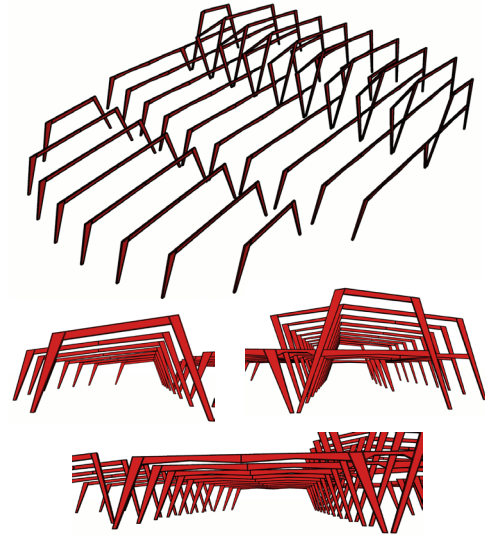
The basement level houses a multi-sports court, pickleball courts, and a double-height climbing wall, visually connecting with the upper level for an immersive spectator experience.

## PLANS



## SECTIONS

## STRUCTURE



SCALE: 1/32" = 1'-0"



## ELEVATIONS



EAST ELEVATION

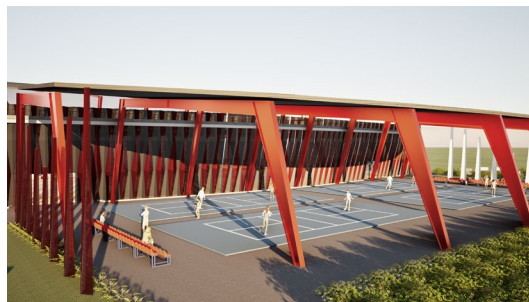


SOUTH ELEVATION

## VIEWS



NORTHWEST VIEW



OUTDOOR PLAY AREA- PICKLEBALL COURTS



SOUTHEAST VIEW

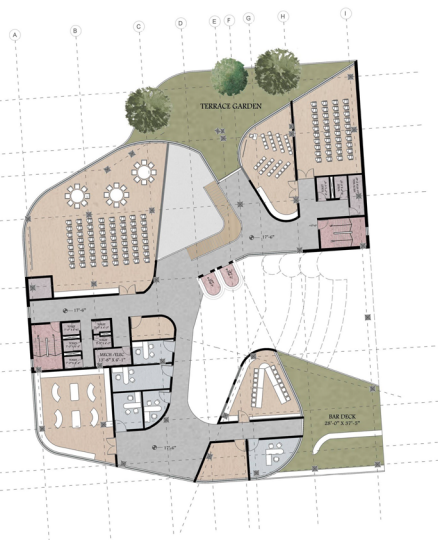
## REDEVELOPMENT OF FLOWER MARKET

Los Angeles, CA

This project focuses on the comprehensive redevelopment of a flower market, integrating modern greenhouses and sustainable architectural practices. The facade design will reflect organic aesthetics that resonate with the natural beauty of flowers. The building is zoned into distinct areas: public spaces, semi-public zones, administrative offices, and research laboratories, each designed to meet the unique requirements of its users while maintaining a cohesive and functional flow. The design prioritizes sustainability, incorporating eco-friendly materials and leveraging solar studies to optimize building iterations for maximum energy efficiency. Through this approach, the project aims to create a vibrant, environmentally conscious flower market that not only serves its community but also sets a benchmark for future developments in sustainable architecture.







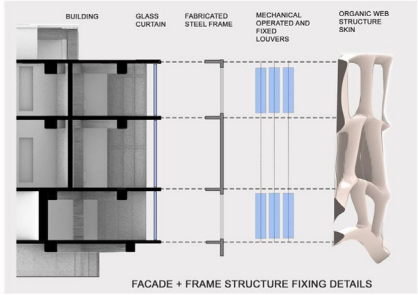
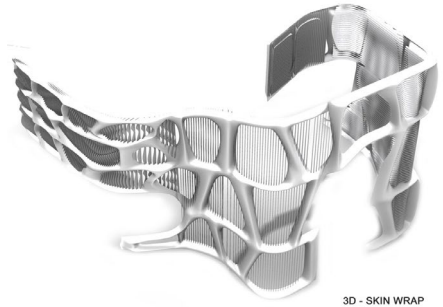
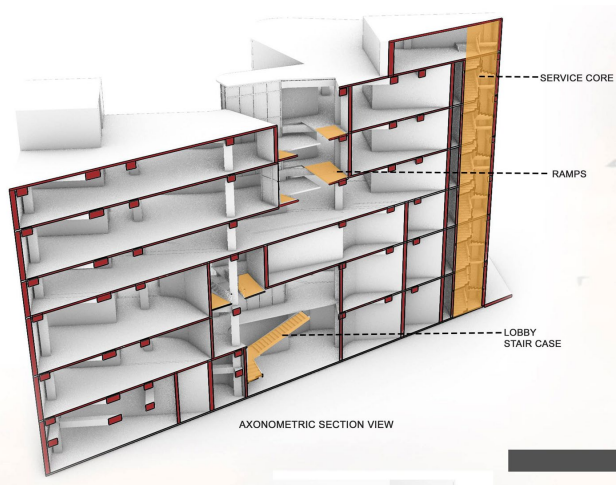
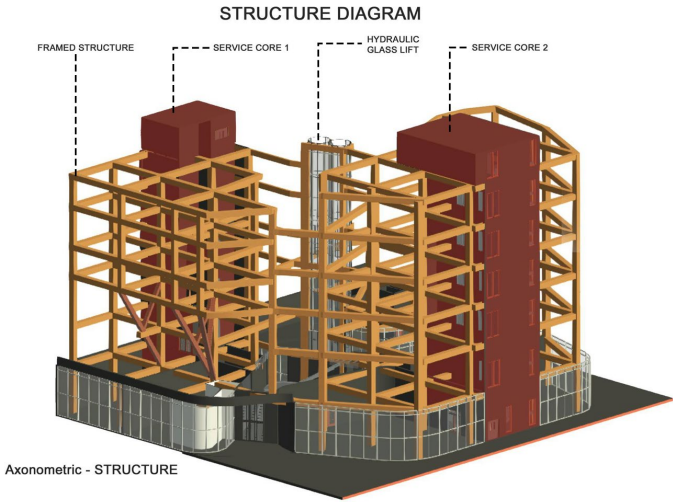
# SECTIONS AND STRUCTURAL DETAILS



SECTION - B

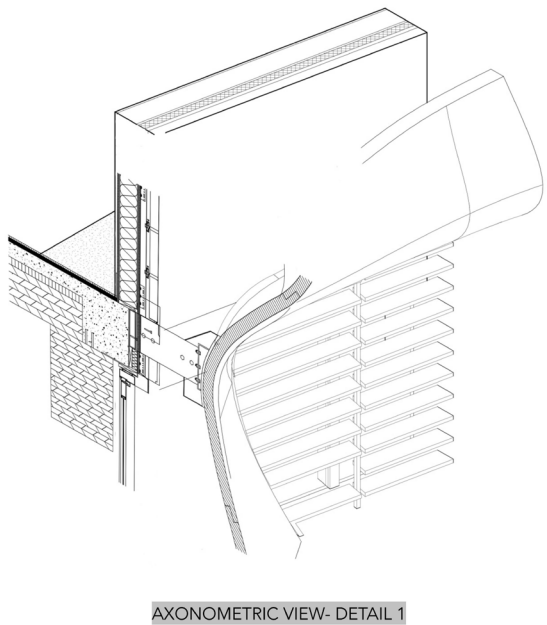
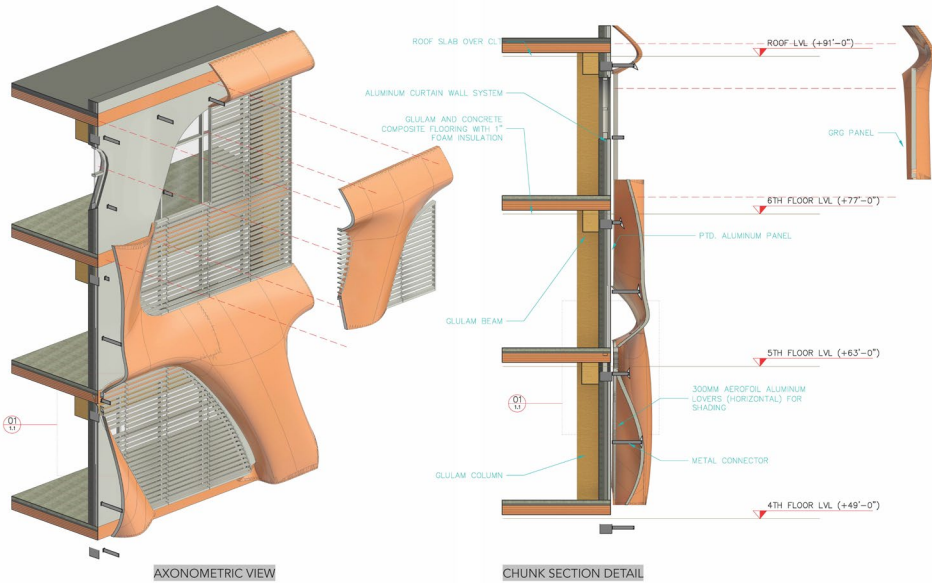
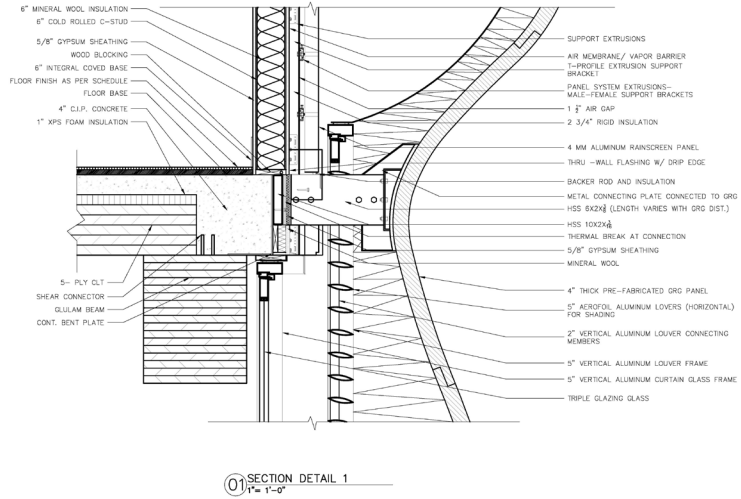
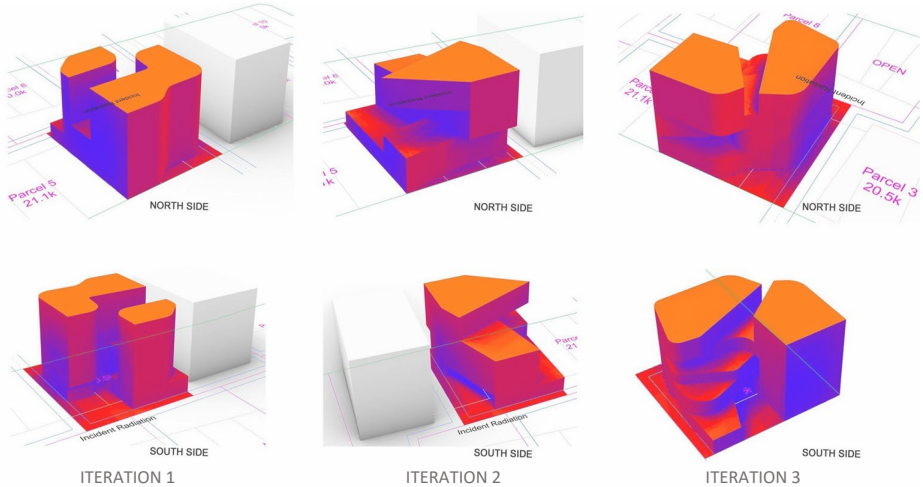


SECTION - A





# SOLAR ANALYSIS AND FACADE DETAILS

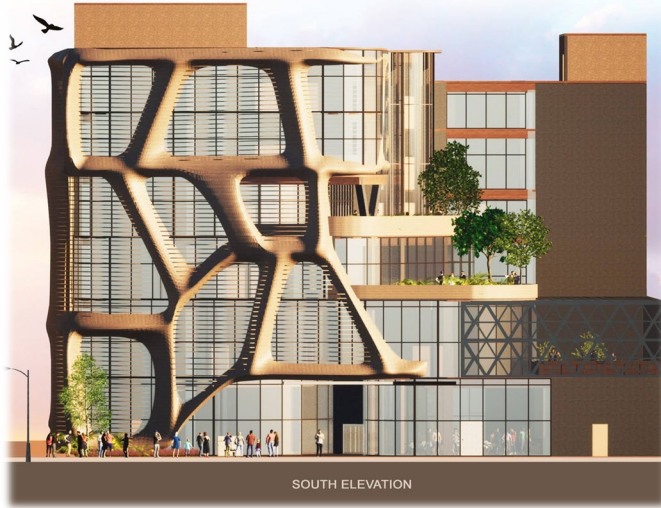


# ELEVATIONS AND VIEWS

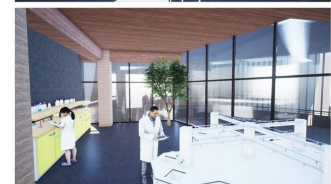
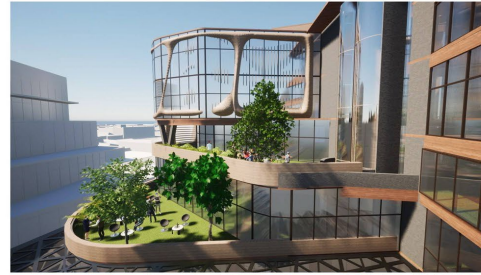
## INTERIOR VIEWS



NORTH ELEVATION



SOUTH ELEVATION





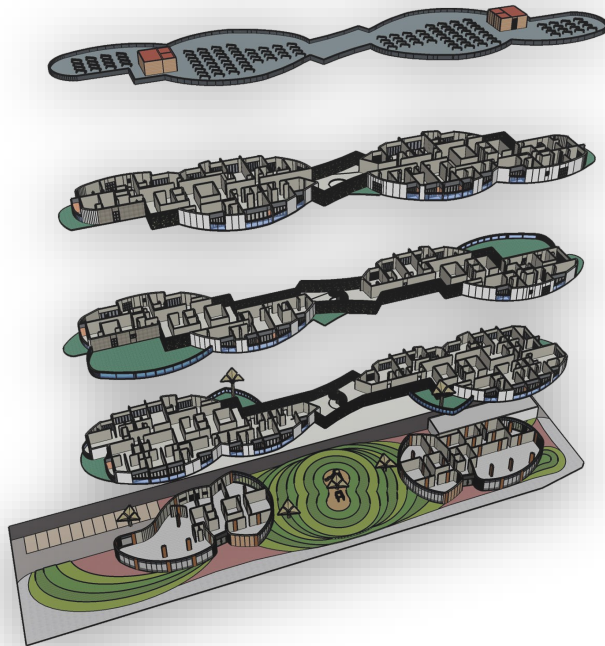
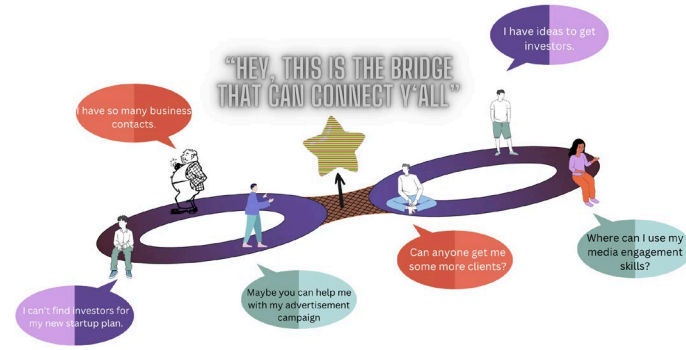
## AFFORDABLE HOUSING Holyoke, MA

The Business Incubator- Exploring Affordable Housing Solutions tailored for the dynamic needs of businessmen, entrepreneurs, and student entrepreneurs alike. In this project, we delve into residential options that balance affordability and comfort, addressing the specific financial considerations of individuals engaged in business ventures and students pursuing entrepreneurial dreams. Join us on a journey to discover housing solutions that align with your budget while providing a conducive environment for your professional and academic pursuits.

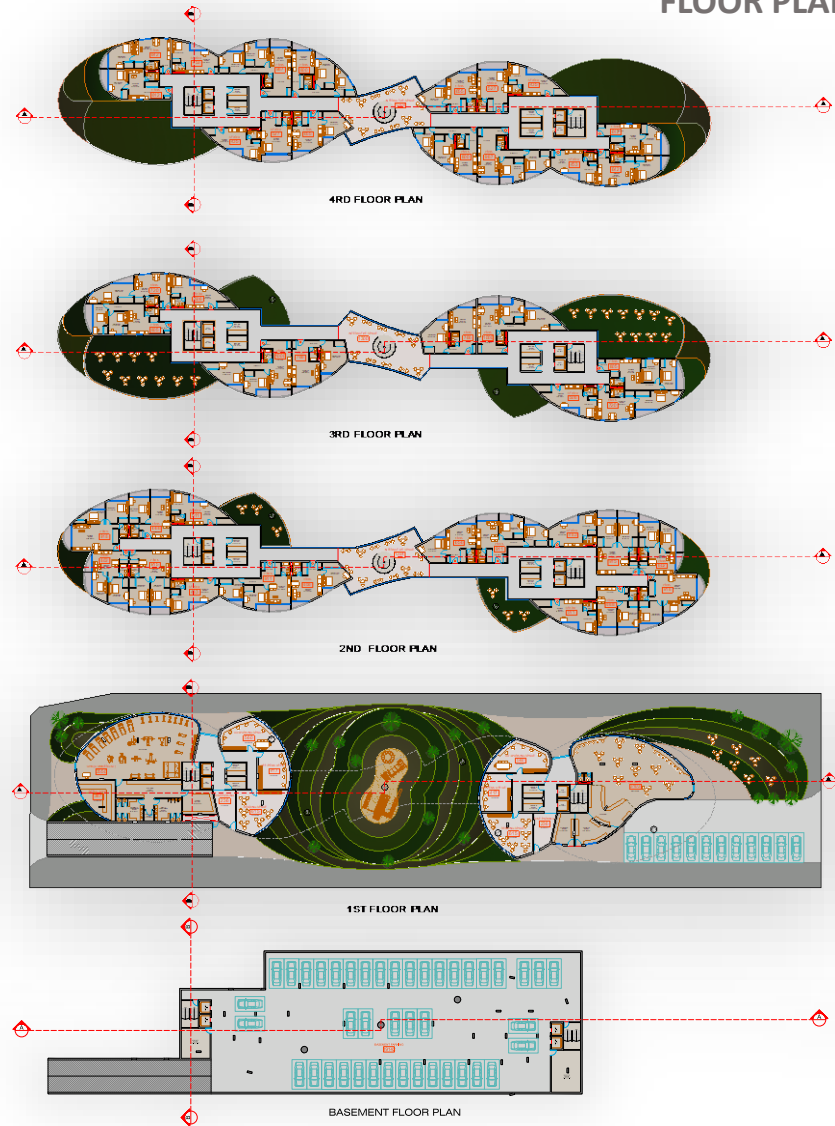


# CONCEPT

# FLOOR PLANS

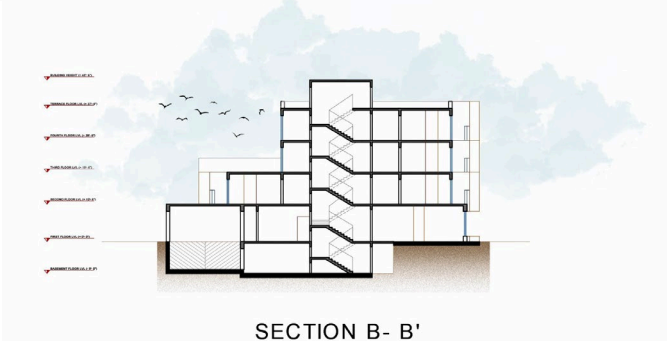
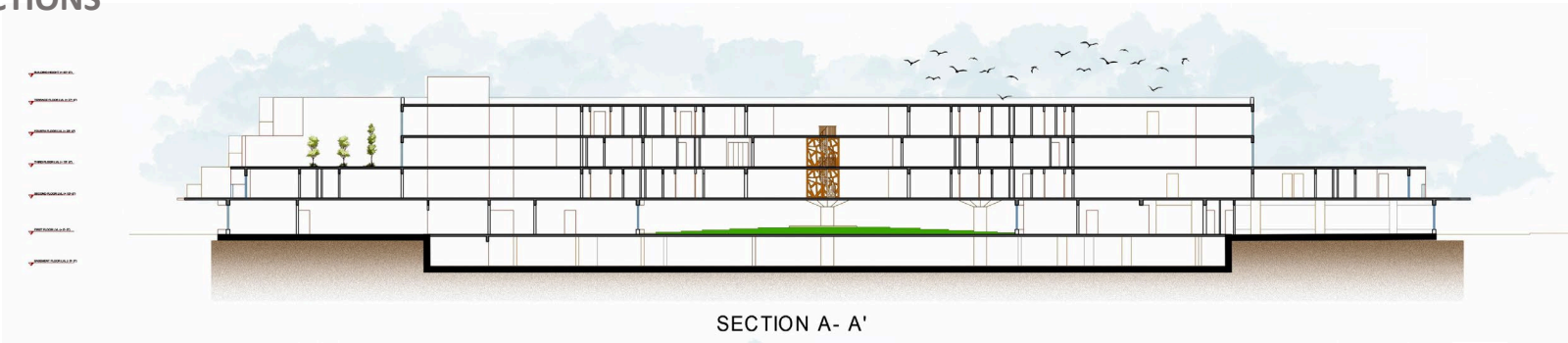


EXPLODED AXONOMETRIC

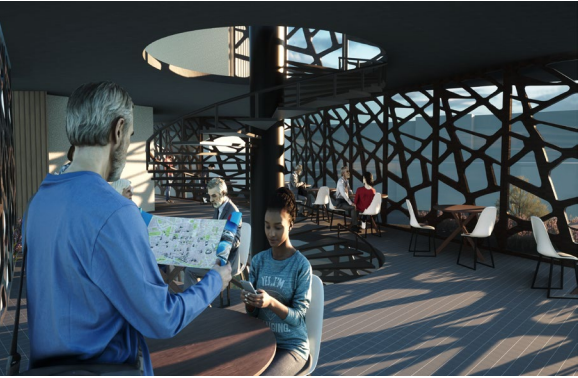




# SECTIONS



# INTERIOR VIEWS



# ELEVATIONS AND VIEWS



NORTHWEST ELEVATION



NORTHEAST ELEVATION



SOUTHWEST ELEVATION



LONGITUDINAL VIEW



BIRDS EYE VIEW



## INTERNATIONAL SPORTS COMPLEX

### Goa, India

Introducing the visionary International Sports Complex in Goa, where sports excellence meets coastal beauty. This project features world-class facilities, including state-of-the-art sports medicine, and provides social housing for athletes and staff. Envision a dynamic hub prioritizing international sportsmanship, holistic development, and community support. Get ready for the fusion of sporting prowess, medical care, and athlete-centric living in this exciting venture.

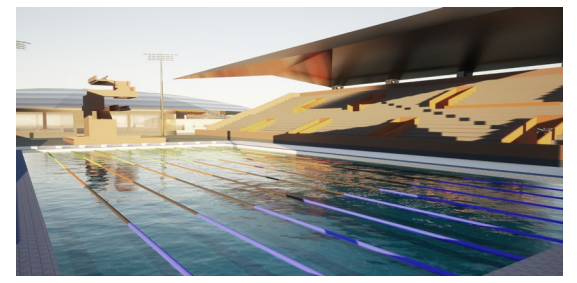
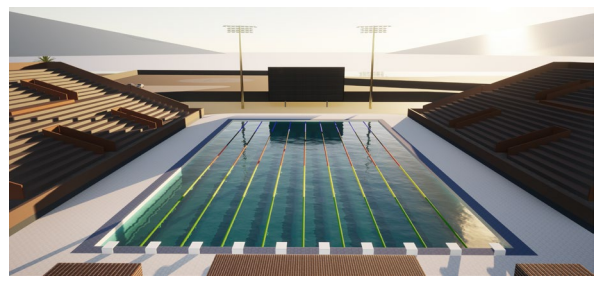
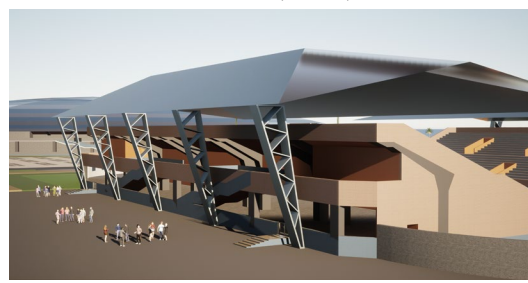
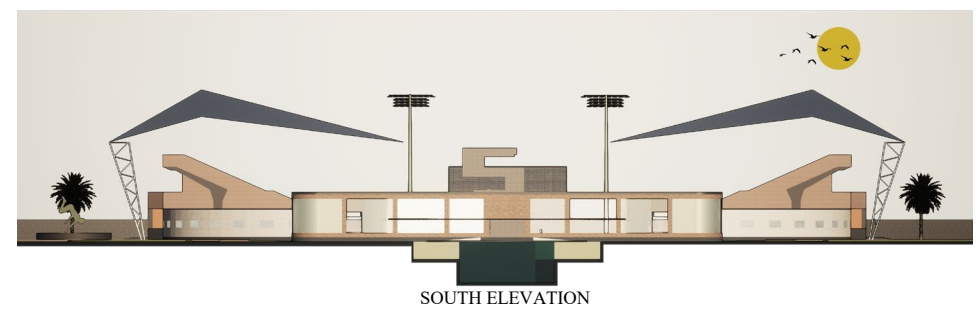
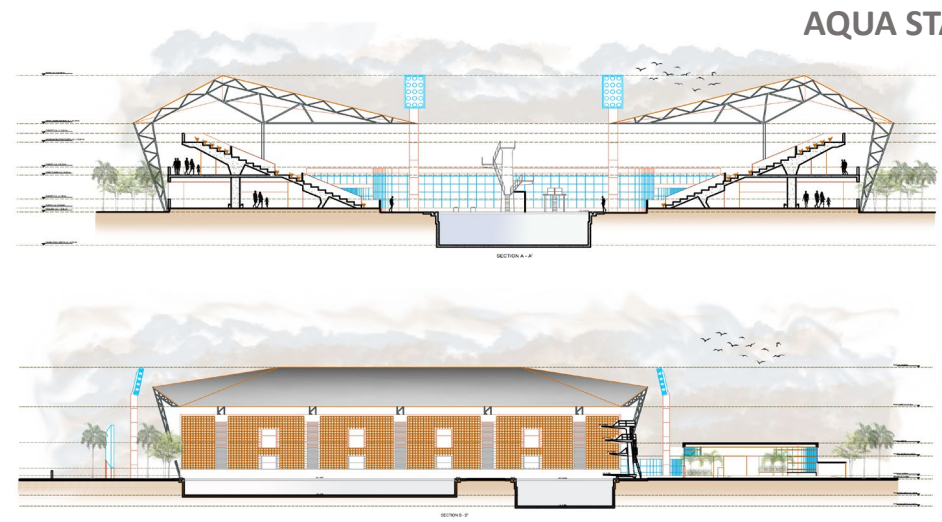
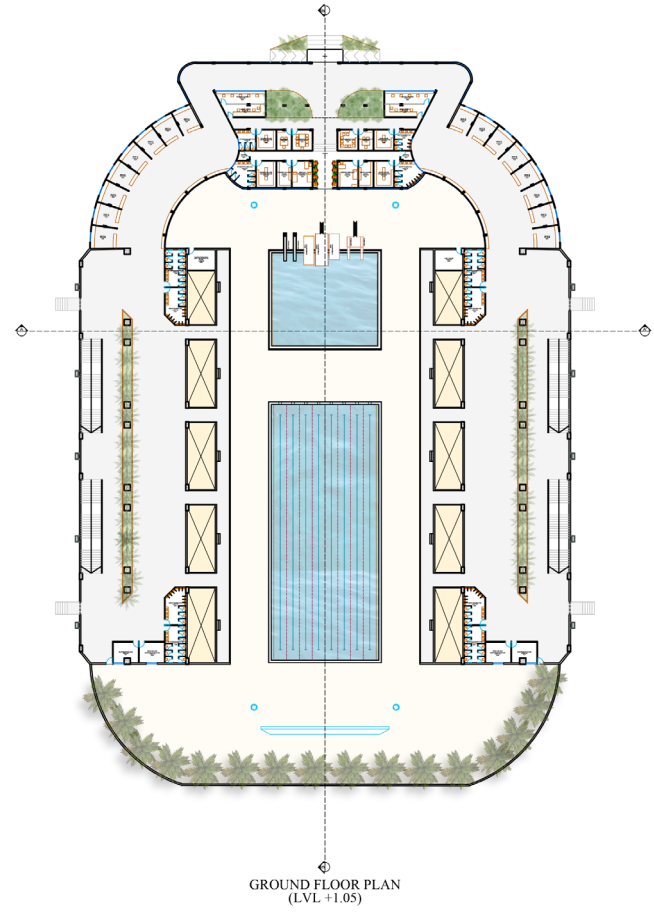


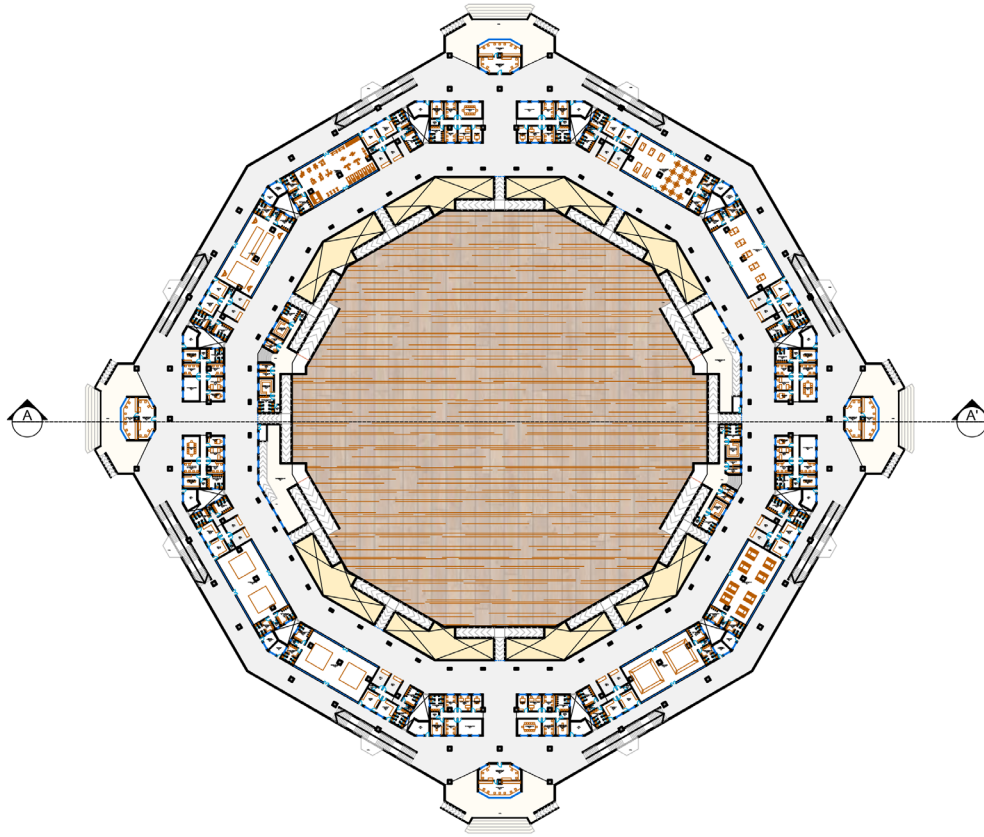
GROUND FLOOR SITE PLAN



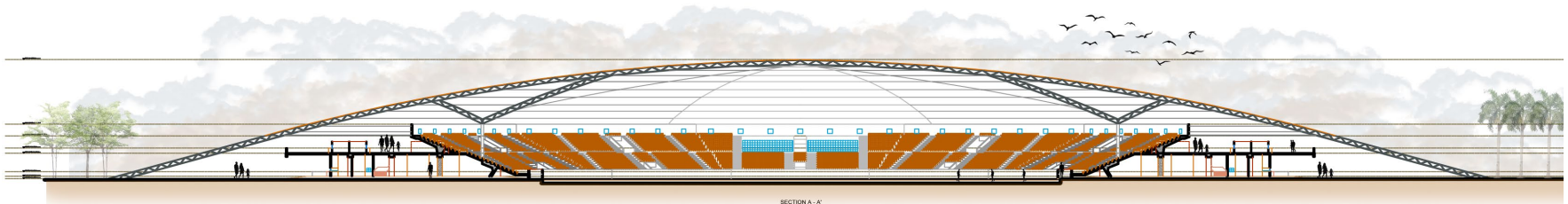
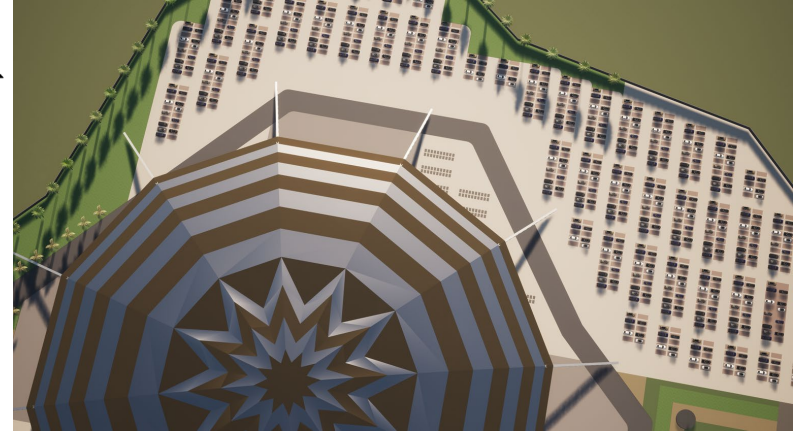
SITE SECTION





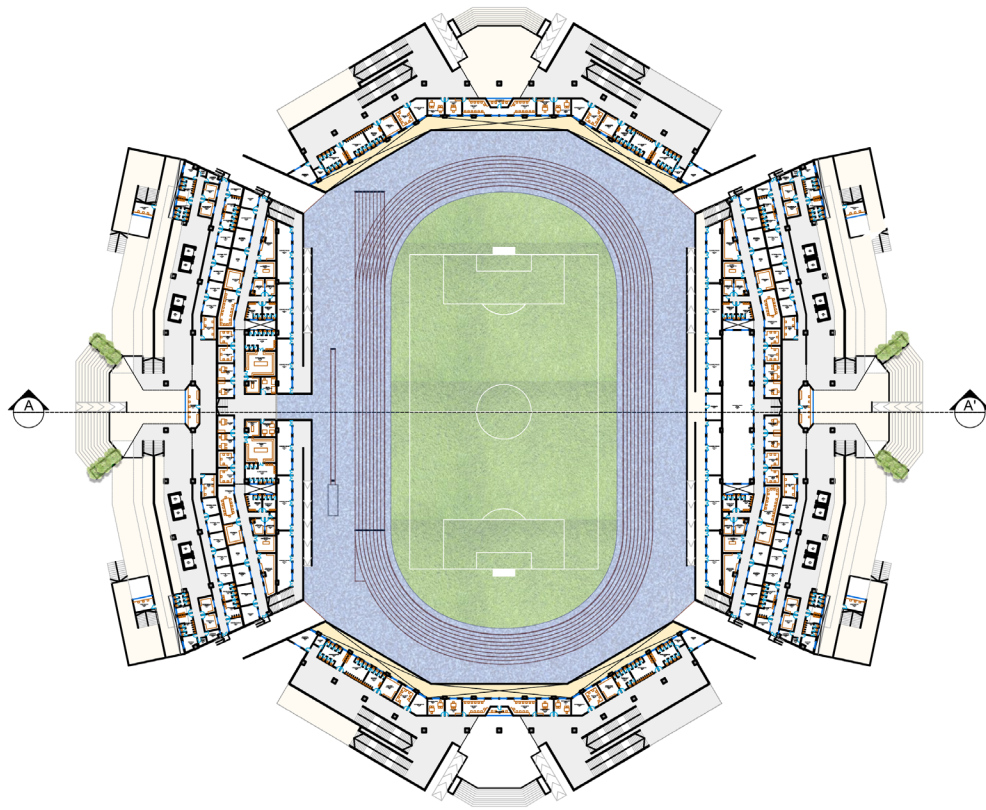


WEST ELEVATION

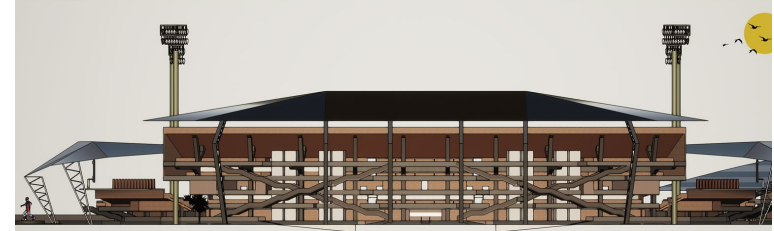




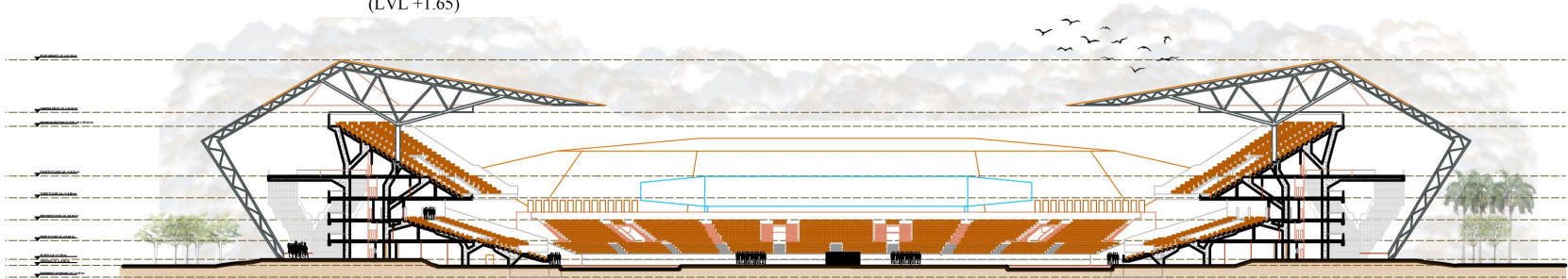
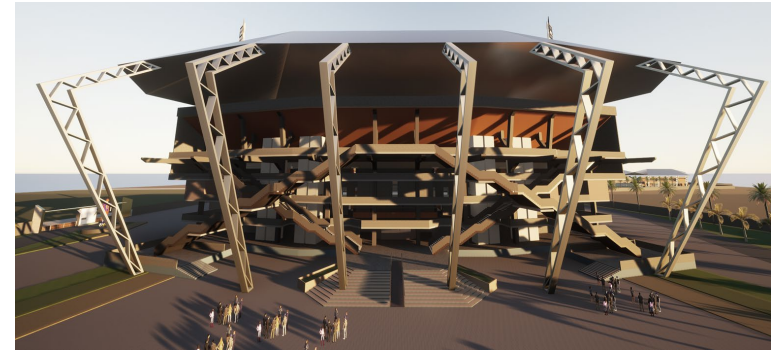
# ATHLETICS AND SOCCER STADIUM



GROUND FLOOR PLAN  
(LVL +1.65)

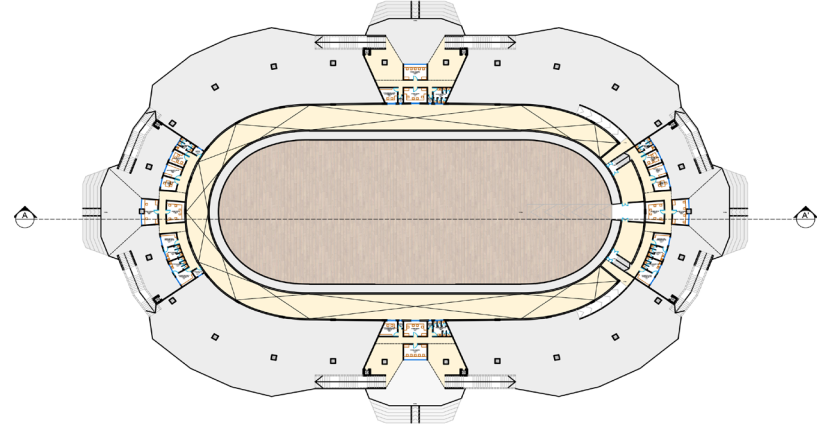


EAST ELEVATION

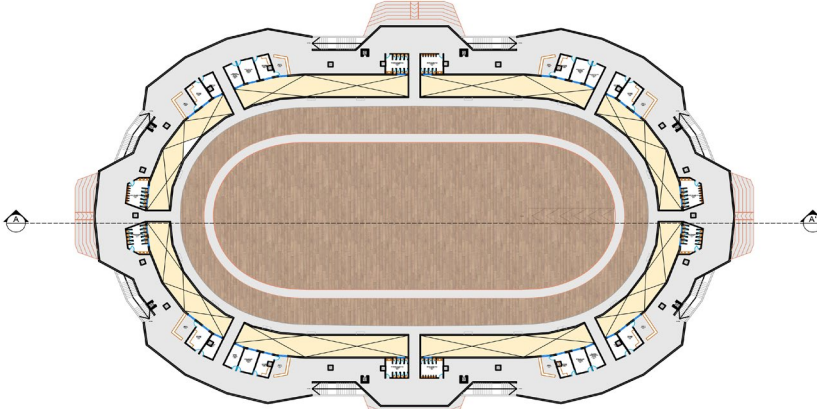


SECTION A-A'

# CYCLING VELODROME



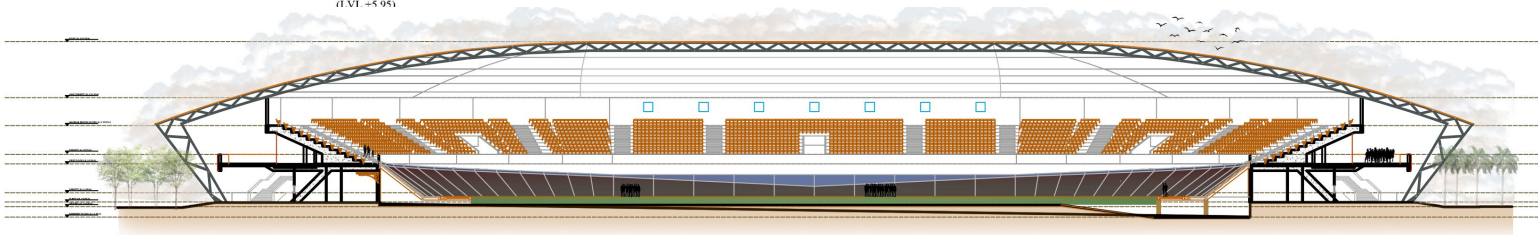
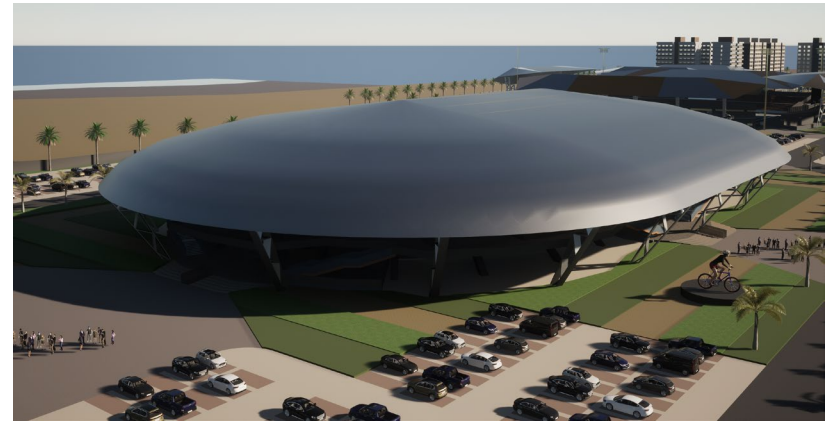
GROUND FLOOR PLAN  
(LVL +1.05)



FIRST FLOOR PLAN  
(LVL -5.95)

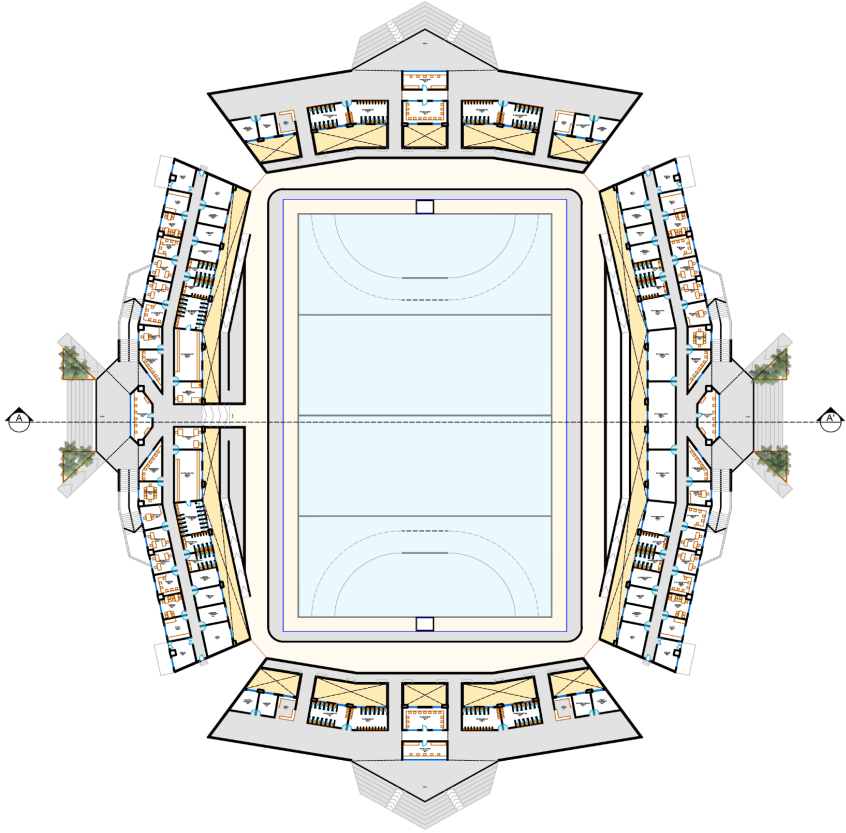


EAST ELEVATION



SECTION A - A'

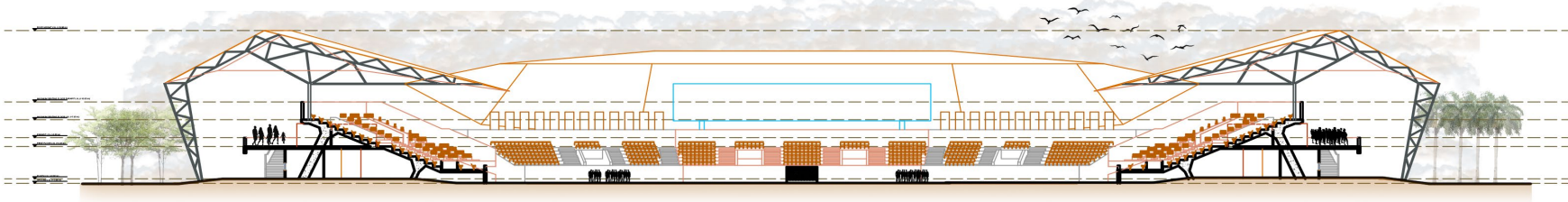
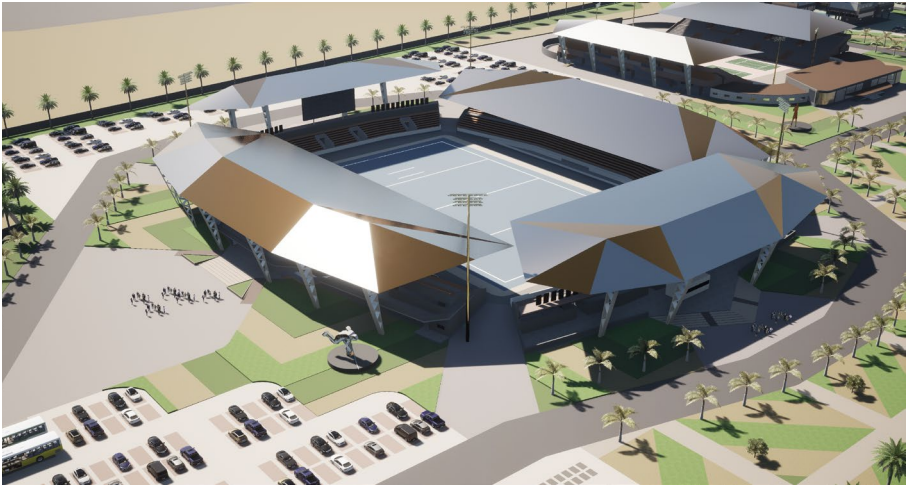




GROUND FLOOR PLAN  
(LVL +1.05)

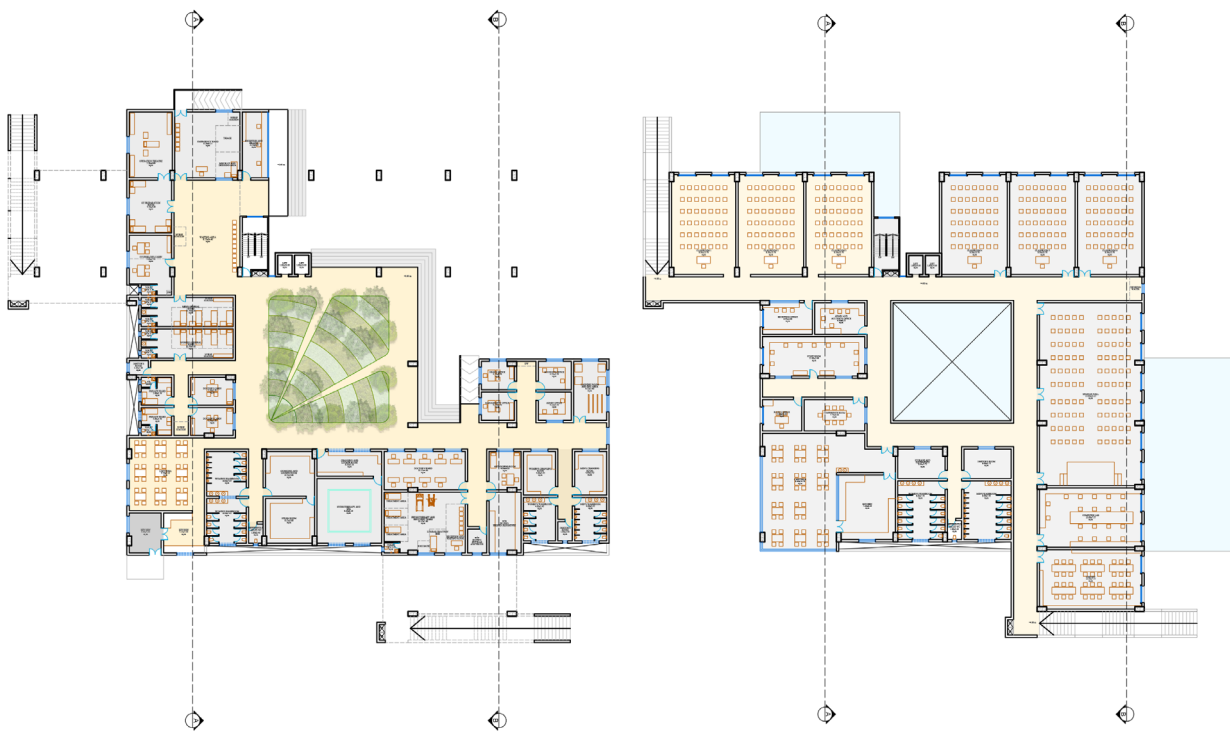


SOUTH ELEVATION



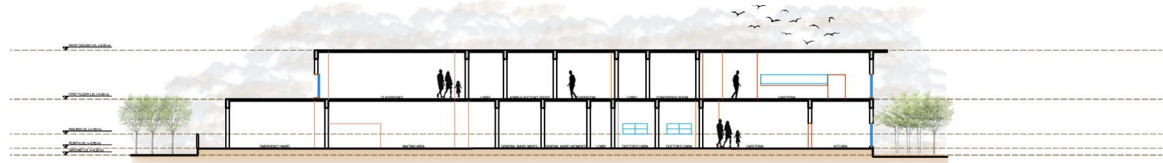
SECTION A - A'

SPORTS MEDICINE & INSTITUTE

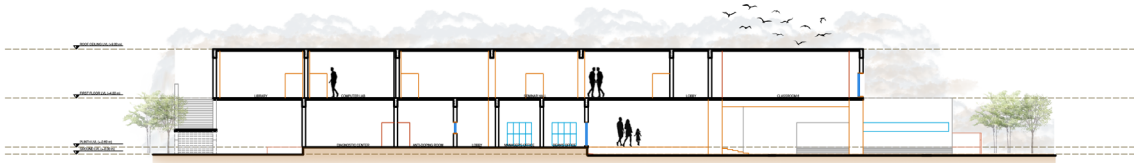


GROUND FLOOR PLAN  
(MEDICAL CENTER)

FIRST FLOOR PLAN  
(INSTITUTE)



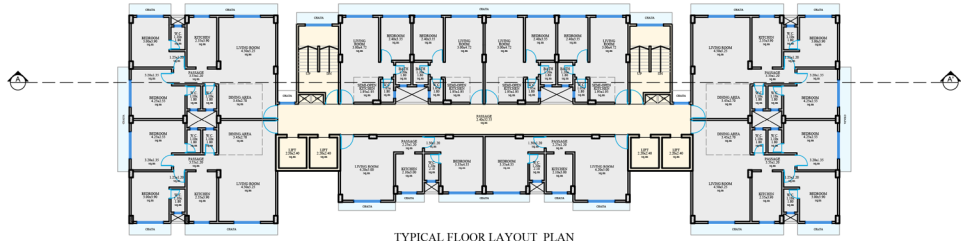
SECTION A - A'



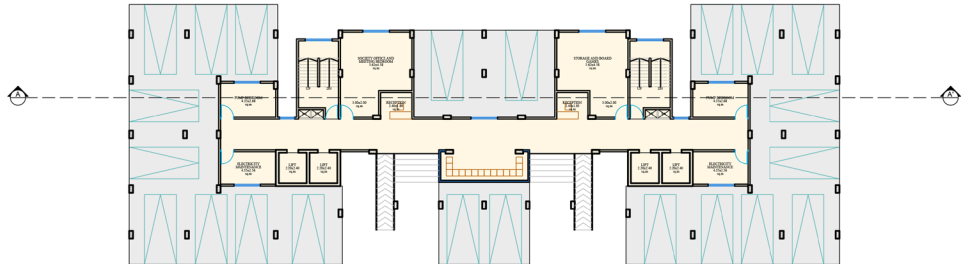
SECTION B - B'



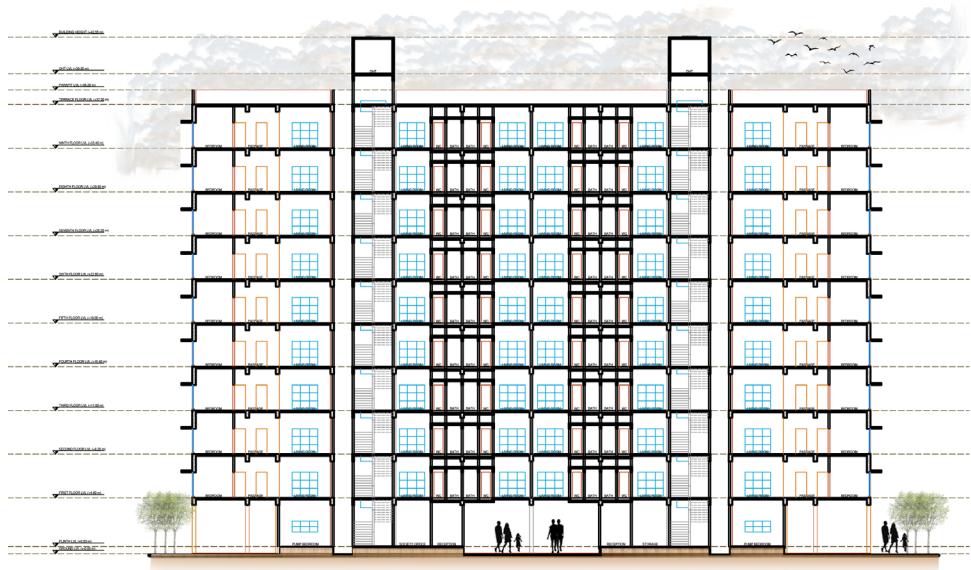
STAFF QUARTERS



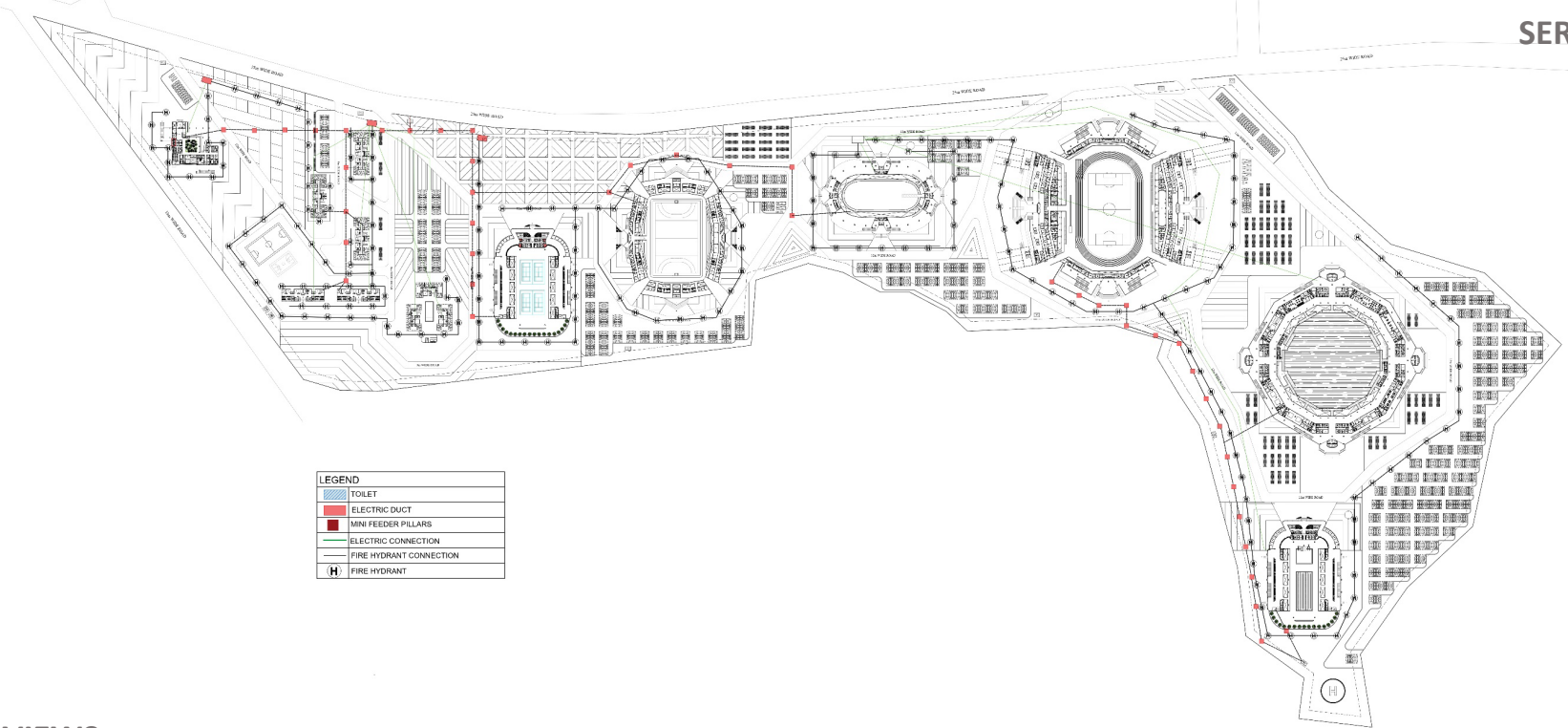
TYPICAL FLOOR LAYOUT PLAN



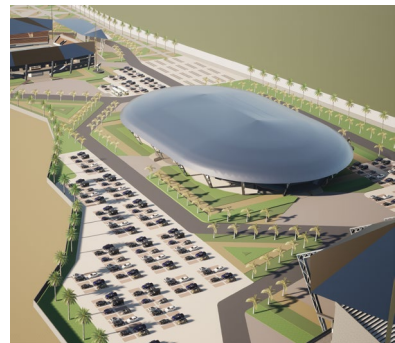
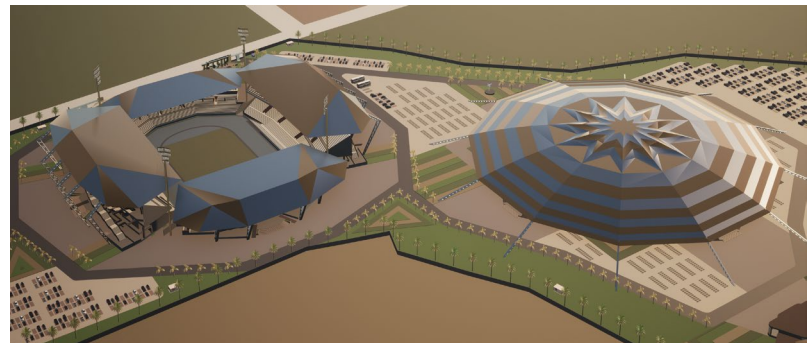
GROUND FLOOR PLAN



SECTION A - A'



## VIEWS





## MISCELLANEOUS FROM INTERNSHIP

### Mehul Kanakia Architects Mumbai, India

Presenting an exceptional opportunity for architectural enthusiasts—an internship in the dynamic suburbs of Mumbai, where architectural innovation meets the diverse landscape of urban living. This internship places a strong emphasis on hands-on experience, particularly within residential projects, offering an immersive learning environment in the vibrant suburbs. Engage in the intricacies of designing residential spaces while gaining valuable exposure to a mix of commercial and residential ventures. Explore the intersection of creativity and functionality in one of the bustling architectural landscapes of Mumbai's suburbs. This internship promises a unique chance to shape the skylines and living experiences of tomorrow's suburban Mumbai.

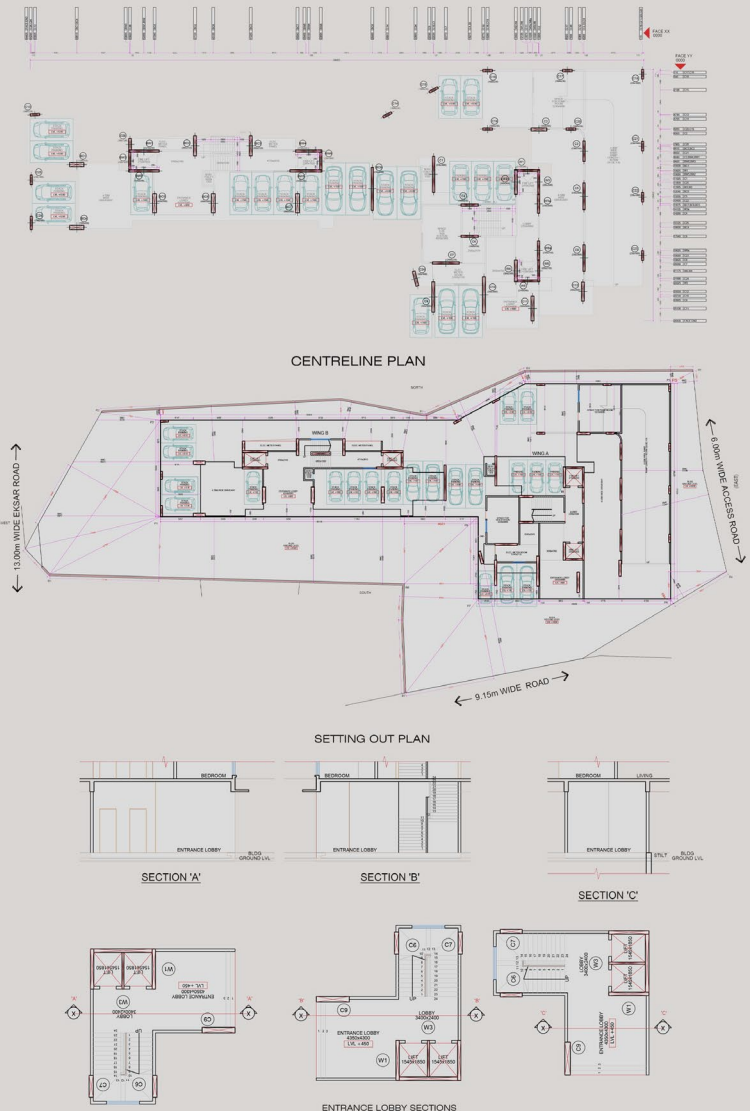


# SALE PLANS





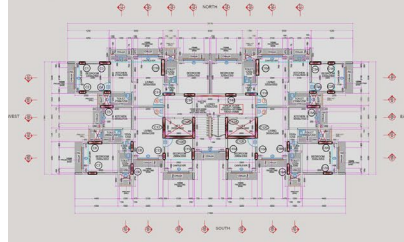
# CONSTRUCTION DRAWINGS



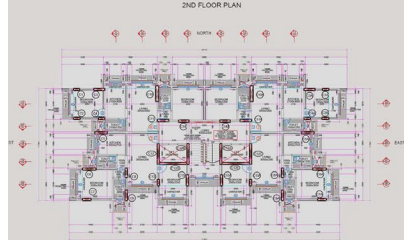
# ELEVATIONS




SITE VISITS




2ND FLOOR PLAN




3RD FLOOR PLAN




LIFT SHAFT  
230 MM WIDE BEAM



TOILET SUNK




STRIPS




SPACERS


SLAB CHECK




01 CENTRELINE CHECK




FOOTING




100X150



100X150  
CENTRELINE CHECK DRAWING ON WOODEN PLANK  
RAFT FOUNDATION AFTER PCC AND COVER PROFILES

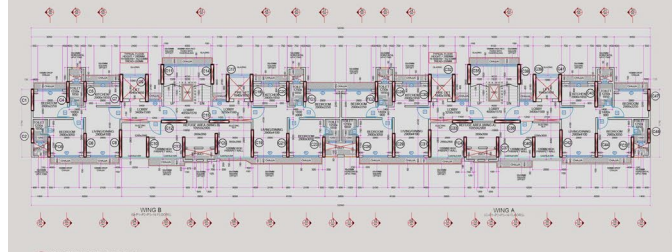


LIFT SHAFT  
COLUMN FORMWORK  
CENTRELINE CHECK DRAWING ON WOODEN PLANK  
RAFT FOUNDATION




TOILET SUNK


CENTRELINE CHECK



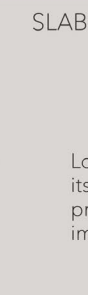
01 1TH (REFUGE) FLOOR PLAN



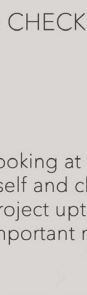
STRIPS



DUC BEAM  
50 MM  
TOILET SUNK  
300 MM DEPTH



SERVICE SLAB




REFUGE AREA


SLAB CHECK




SLAB CHECK




300 MM DEPTH  
TOILET SUNK  
STAIRCASE AREA




CHAJJA  
600MM WIDE



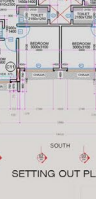
300X750 MM  
BEAM



LIFT SHAFT



STAIRCASE AREA



150 MM  
SLAB



SETTING OUT PLAN

Looking at the construction out of the drawing itself and checking it's accuracy to complete the project upto the mark, site visits play an important role.



Thankyou!

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