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ARCHITECTURE PORTFOLIO

KAREN PEREZ

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REVIT



AUTOCAD



RHINO

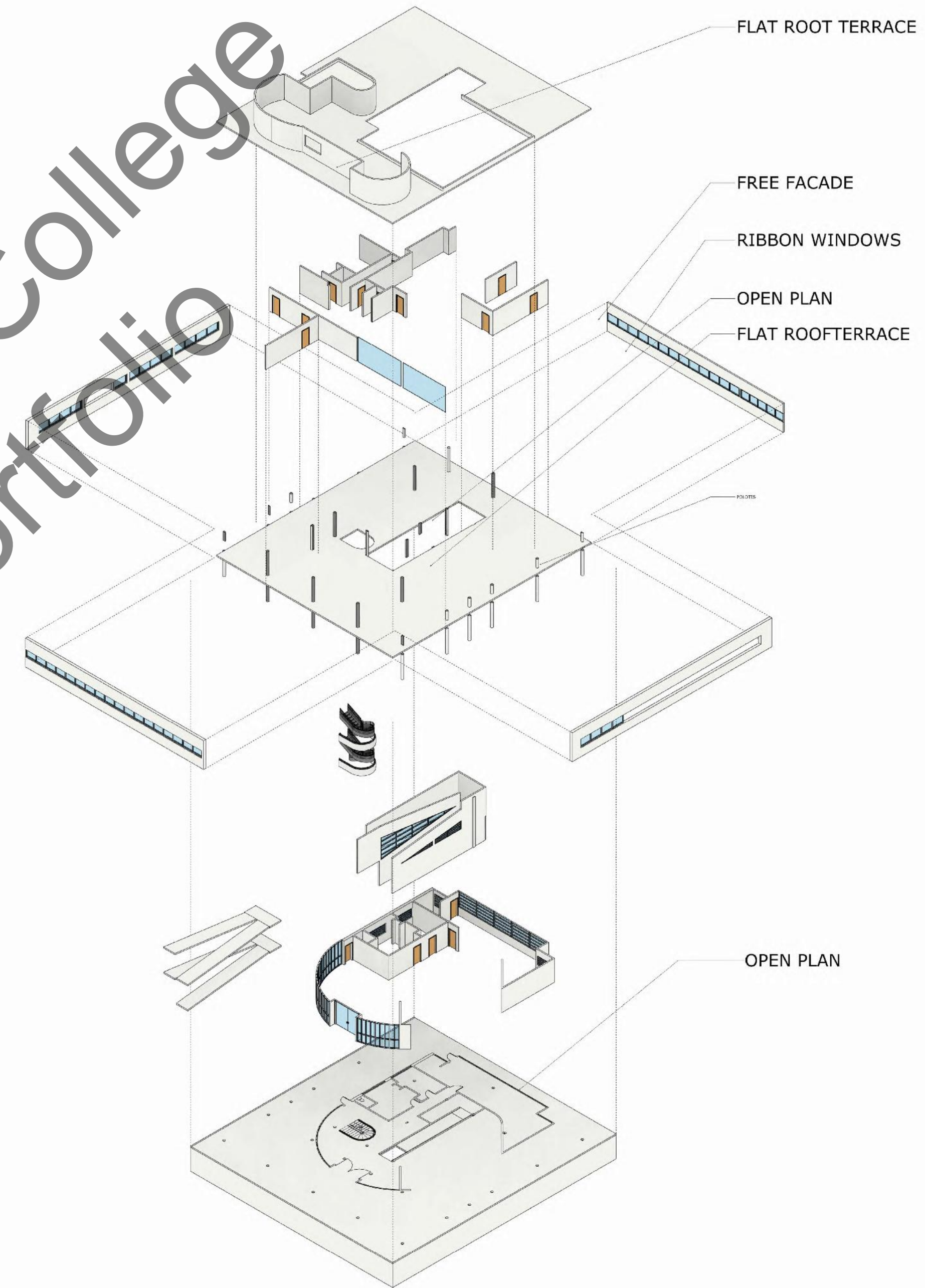
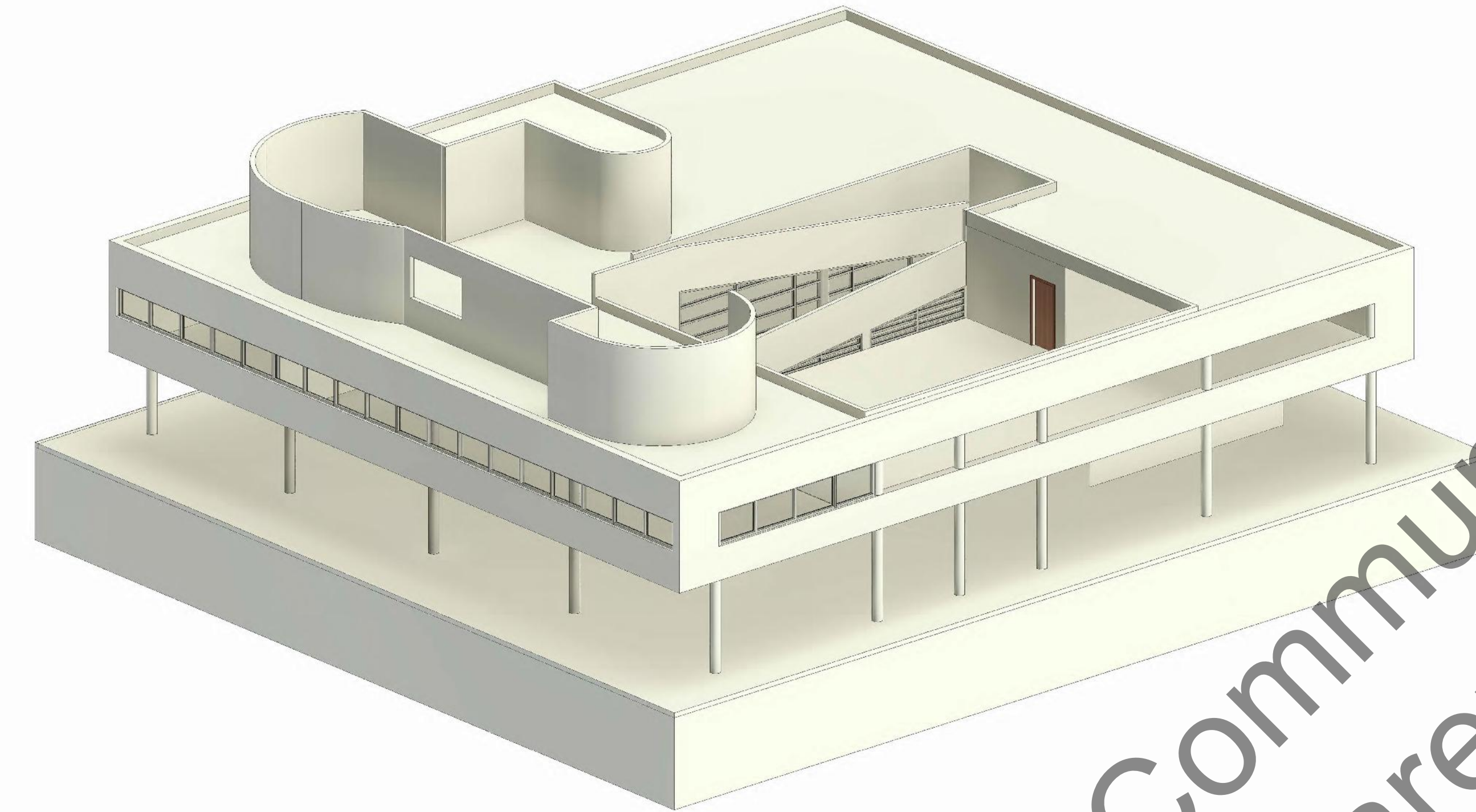


SKETCHUP

RESIDENTIAL CASE STUDY / VILLA SAVOYE

By Le Corbusier

EXPLODED VIEW



FIVE POINTS OF ARCHITECTURE:

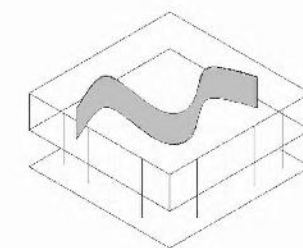
- PILOTIS
- FLAT ROOF TERRACE
- OPEN PLAN
- RIBBON WINDOW
- FREE FACADE

PARTI DIAGRAM

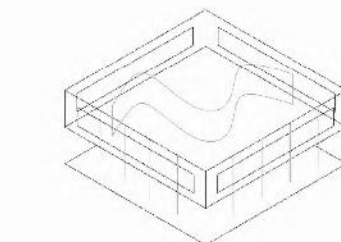


MASS:
THE TOTAL WEIGHT OF THE BUILDING

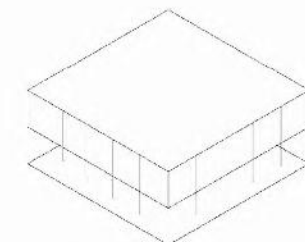
PILOTIS:
THE TOTAL WEIGHT OF THE BUILDING IS SUPPORTED BY COLUMN SYSTEM



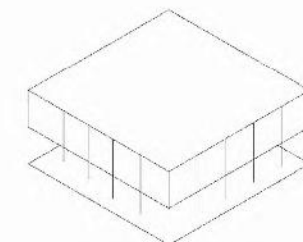
OPEN PLANE:
ALL INTERIOR WALLS ARE NOT LOAD BEARING, SO IT CAN BE FREE FORM



RIBBON WINDOWS:
ALL EXTERIOR FACADES ARE NOT LOAD BEARING, SO THAT IT CAN BE CONTINUOUS WINDOWS



FREE FACADE:
ALL EXTERIOR FACADES ARE NOT LOAD BEARING, SO THAT IT CAN BE ANY SHAPE.



FLAT ROOF TERRACE:
ALL EXTERIOR: ROOF TOP GARDEN

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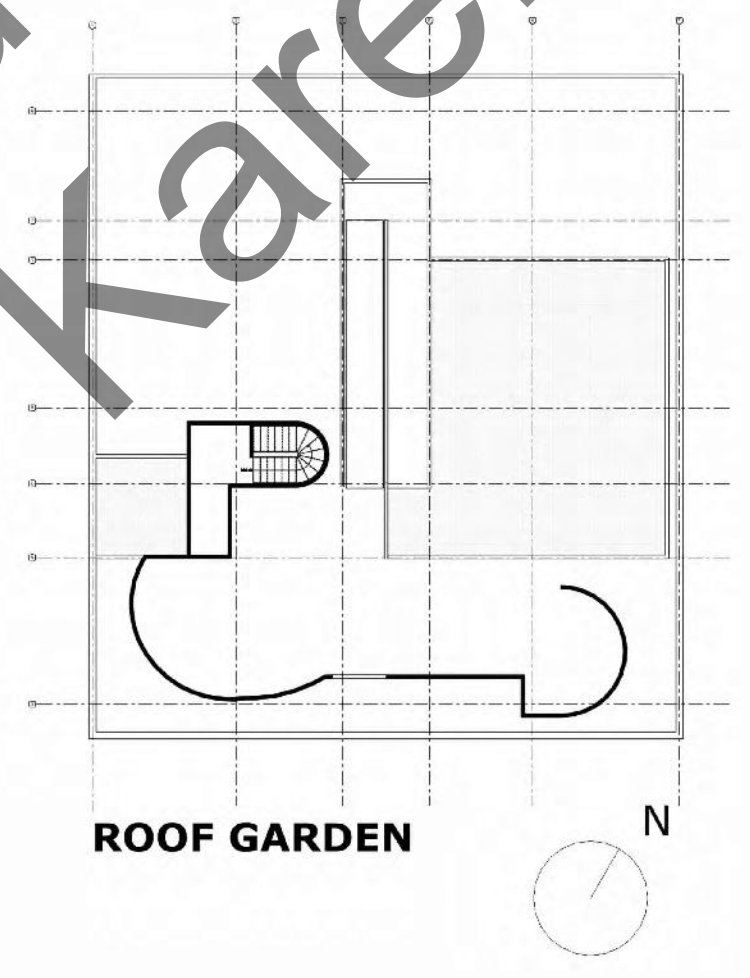
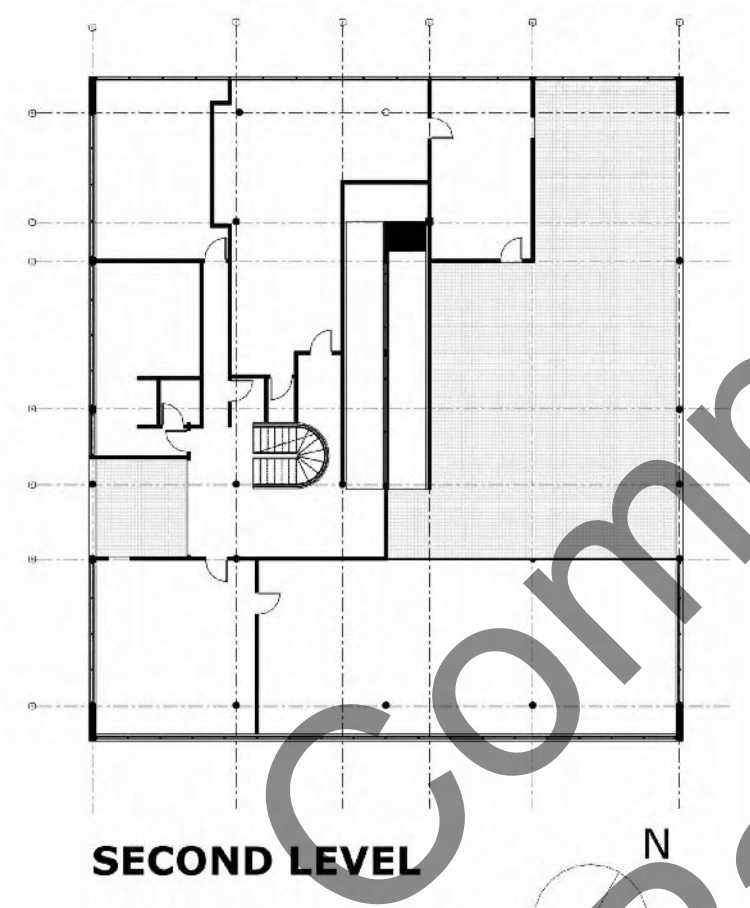
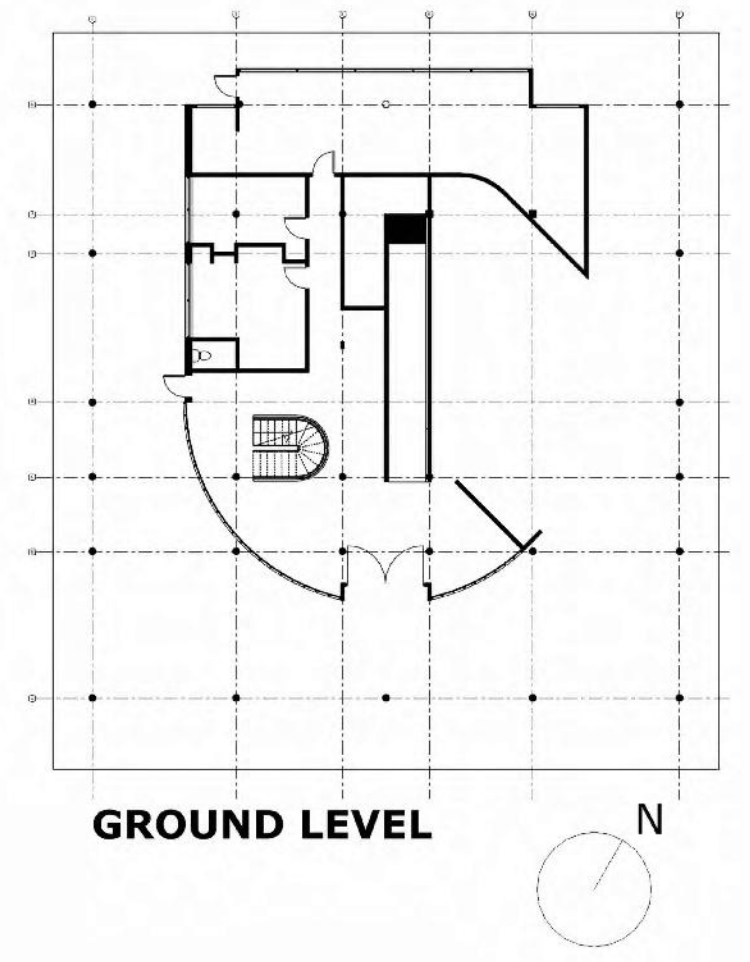
HORIZONTAL CIRCULATION SPACES PER LEVEL AS INDICATED IN TRANSPARENT RED COLOR

STAIRCASE PASSING THROUGH ALL LEVELS

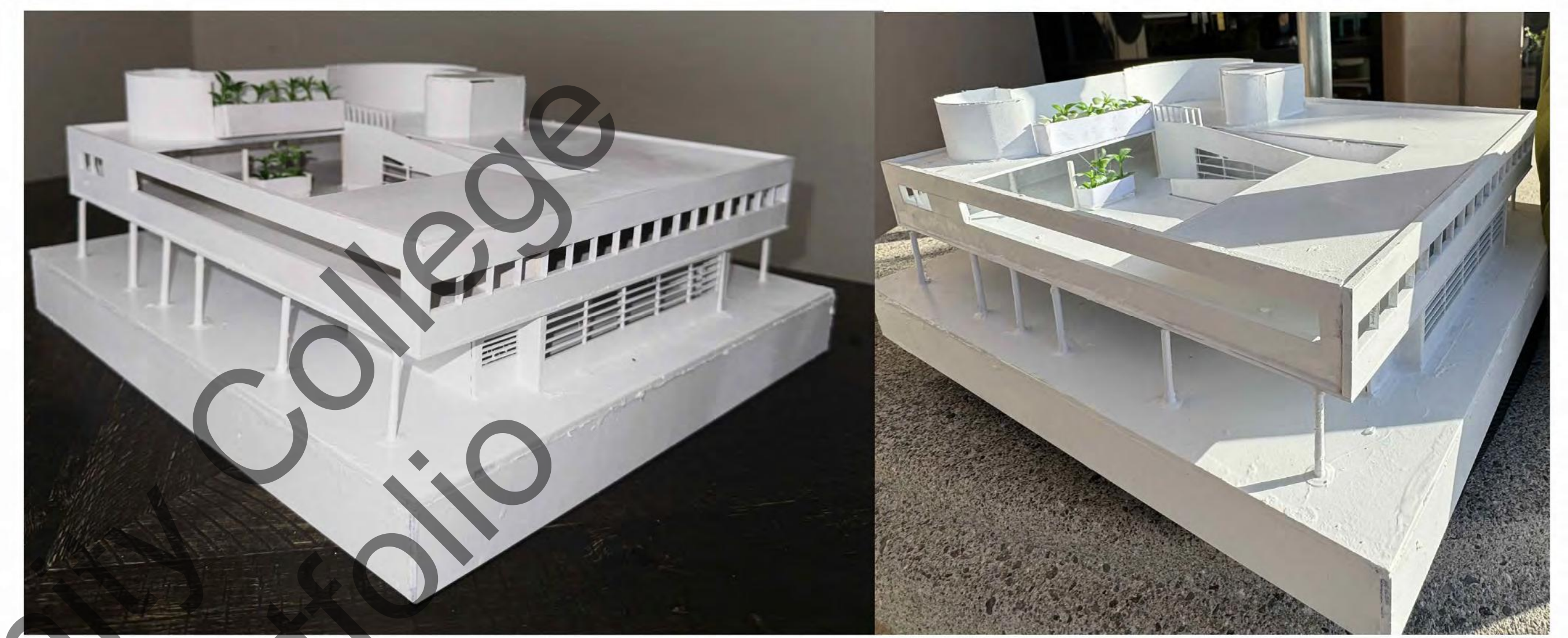
RAMPS PASSING THROUGH ALL LEVELS FROM INTERIOR TO EXTERIOR SPACES

CIRCULATION DIAGRAM

- VERTICAL CIRCULATION -STAIRS AND RAMPS
- HORIZONTAL CIRCULATION PER FLOOR

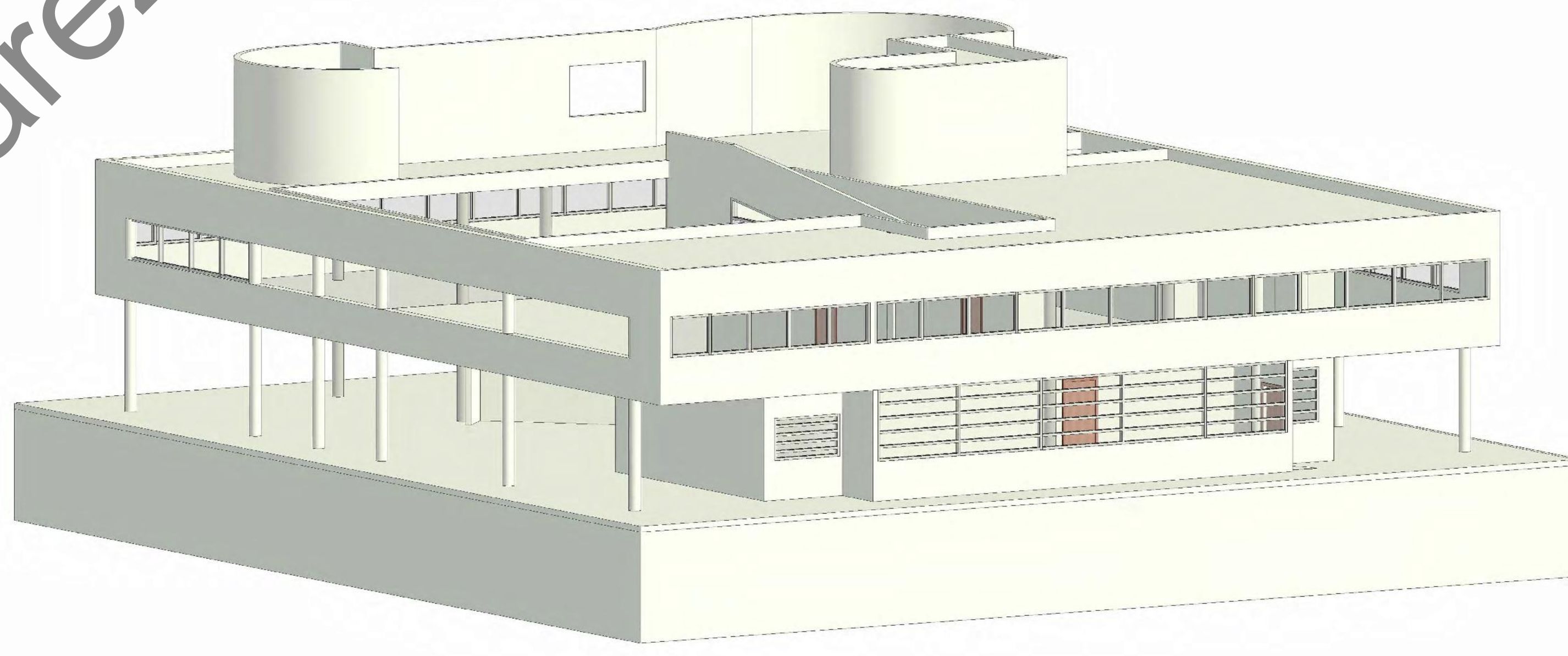


3D MODEL



PROGRAM DIAGRAM

- INDICATED AS PRIVATE PROGRAMS -BEDROOM AND BATHROOMS
- INDICATED AS PUBLIC PROGRAMS -PARKING, KITCHEN, LIVING ROOMS, GARDENS



STRUCTURAL DIAGRAM

- VERTICAL STRUCTURAL SUPPORT -COLUMNS
- HORIZONTAL STRUCTURAL SUPPORT -BEAMS AND FLOOR PLATES

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HOME FOR NTANDO MAHLANGU

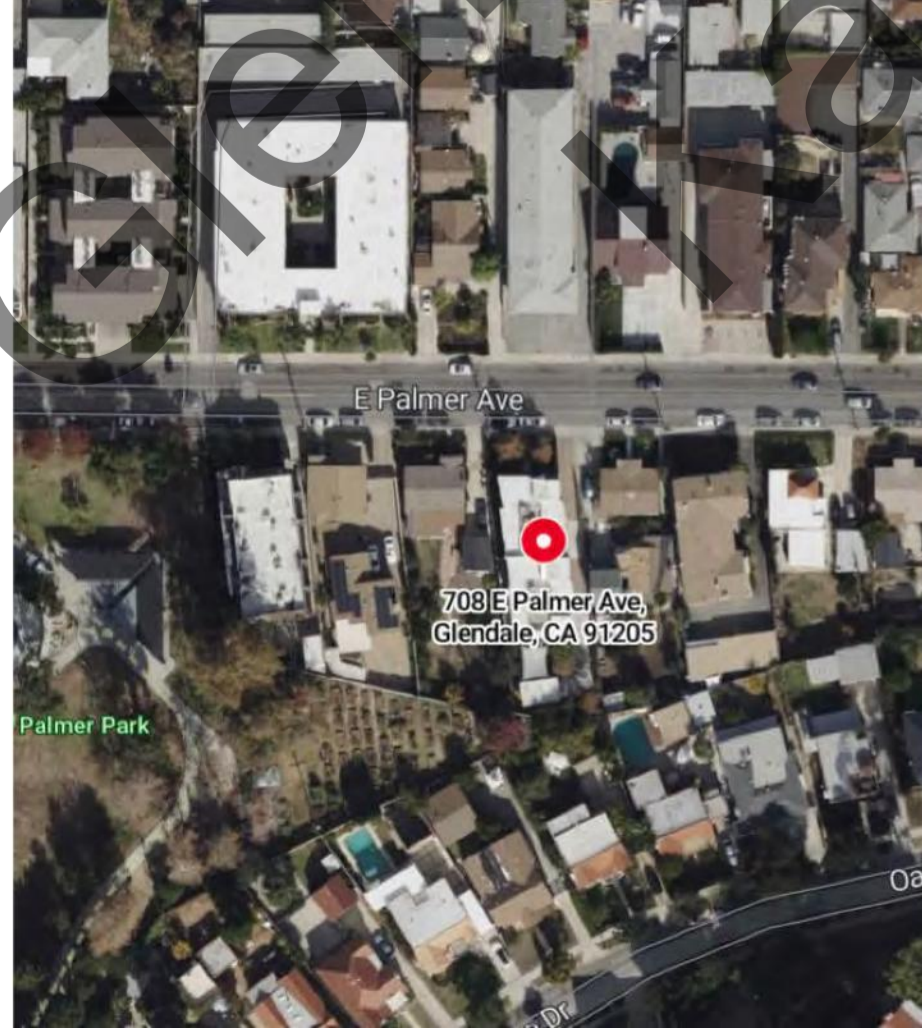


Ntando Mahlangu is a South African paralympic athlete. He spent his first ten years of life using a wheelchair, unable to move freely. At the age of 10 he got his first set of prosthetic blades, which gave him freedom of movement and happiness. In 2021 at the Tokyo Paralympic Games, Ntando won division gold for South Africa in both the long jump and 200m final events.

Concept: The house is meant to be a space where Ntando can move freely throughout the house according to his necessities, showing important stages of his life.

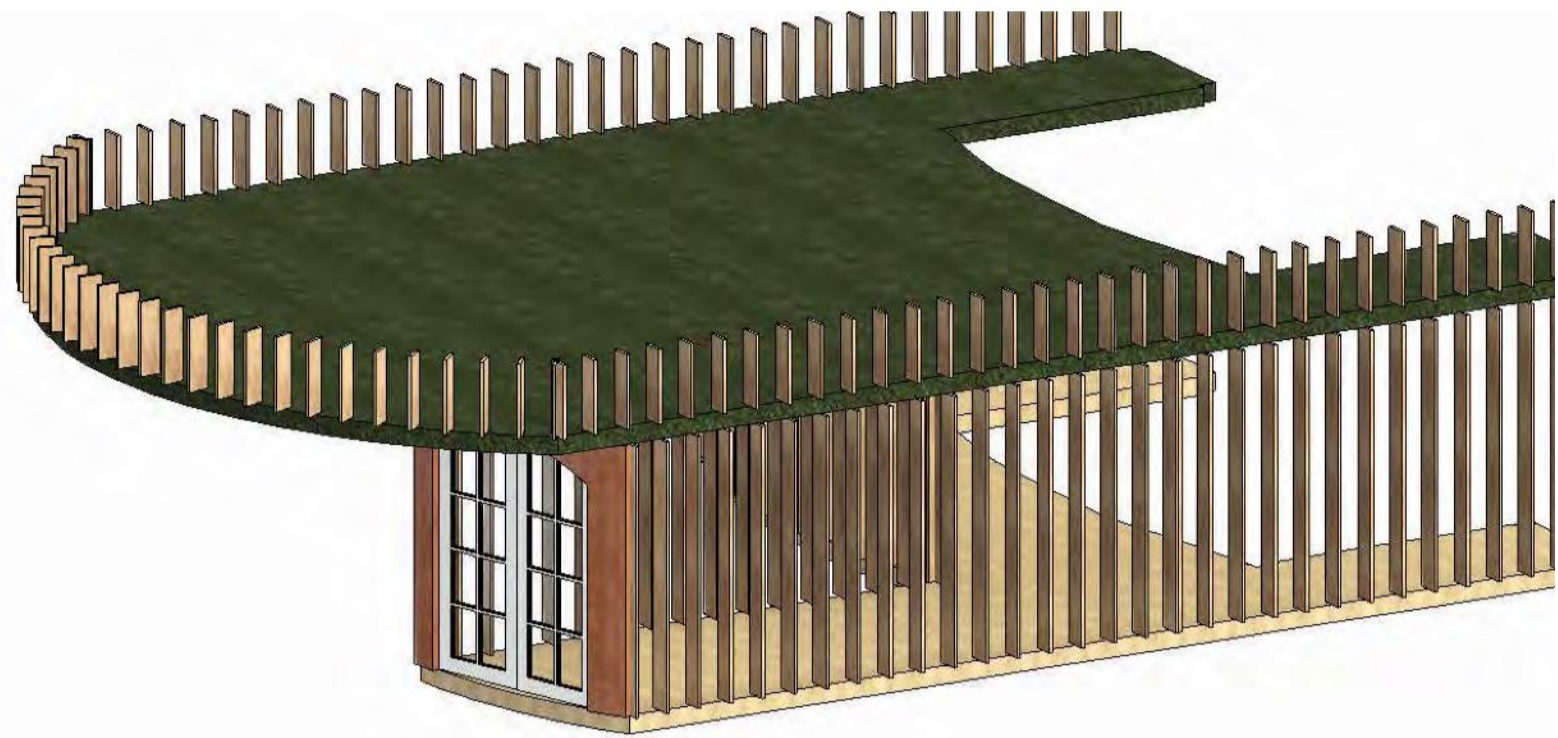
SITE LOCATION

The address of the site is 708 E. Palmer Avenue, Glendale, CA

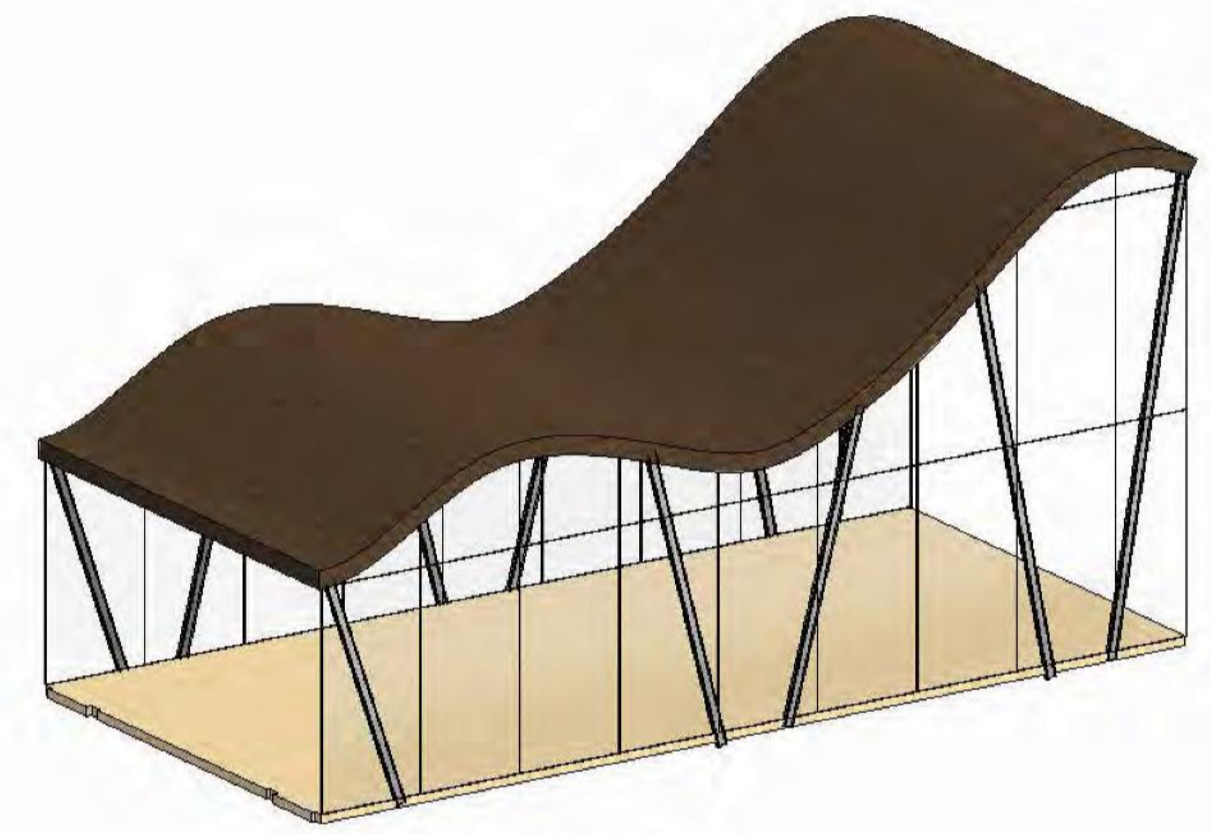
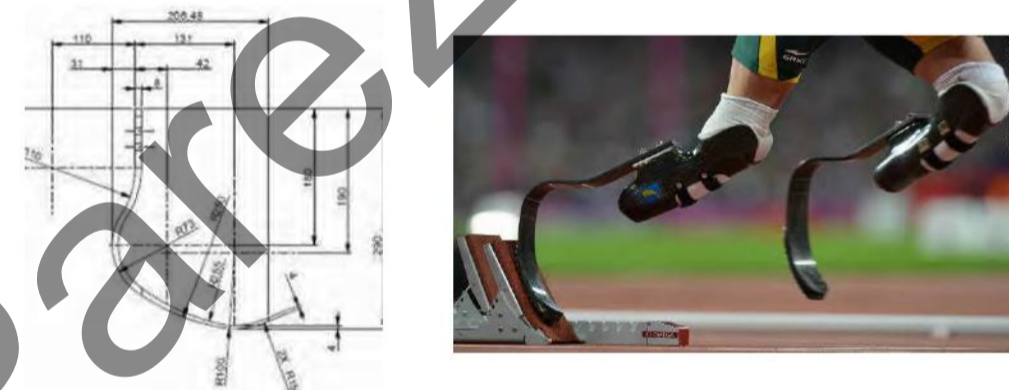


CONCEPT OF THE HOUSE

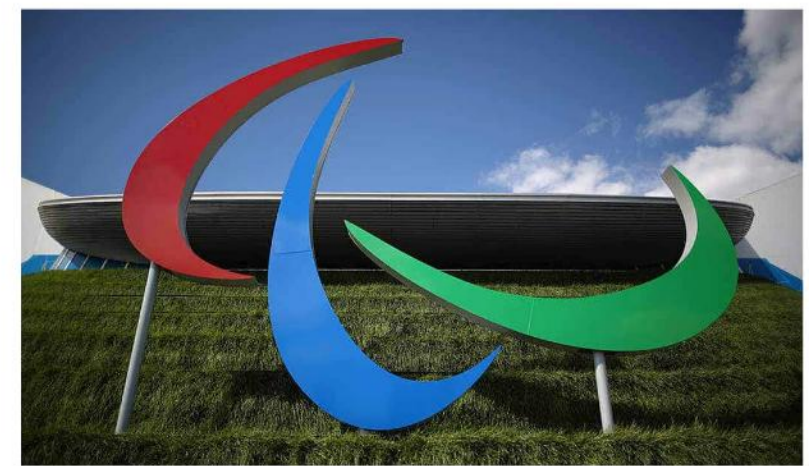
Stage 1 -First ten years of his life.
He spent his first 10 year of life using a wheelchair. He felt that he had no freedom, therefore the room seeks to simulate the design of a cell. The house uses natural materials representing the South African architecture.



Stage 2 -Getting his first set of prosthetic legs.
The idea of this room is to show through the roof the shape of his prosthetic blades.



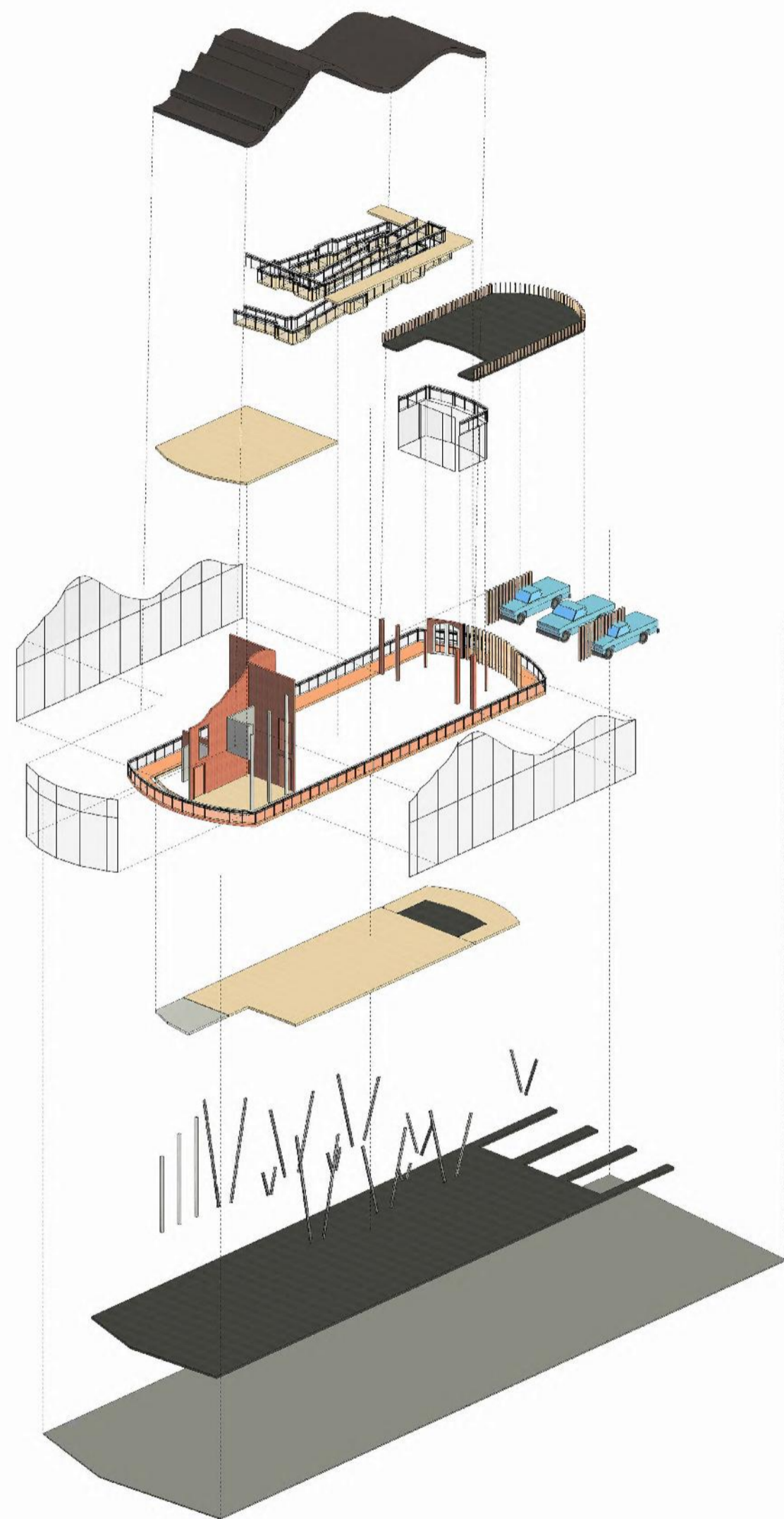
Stage 3 -
This room represents the highest moment in his career, which is when he won gold medal in Tokyo 2021. The shape of the roof symbolizes the paralympic symbol.





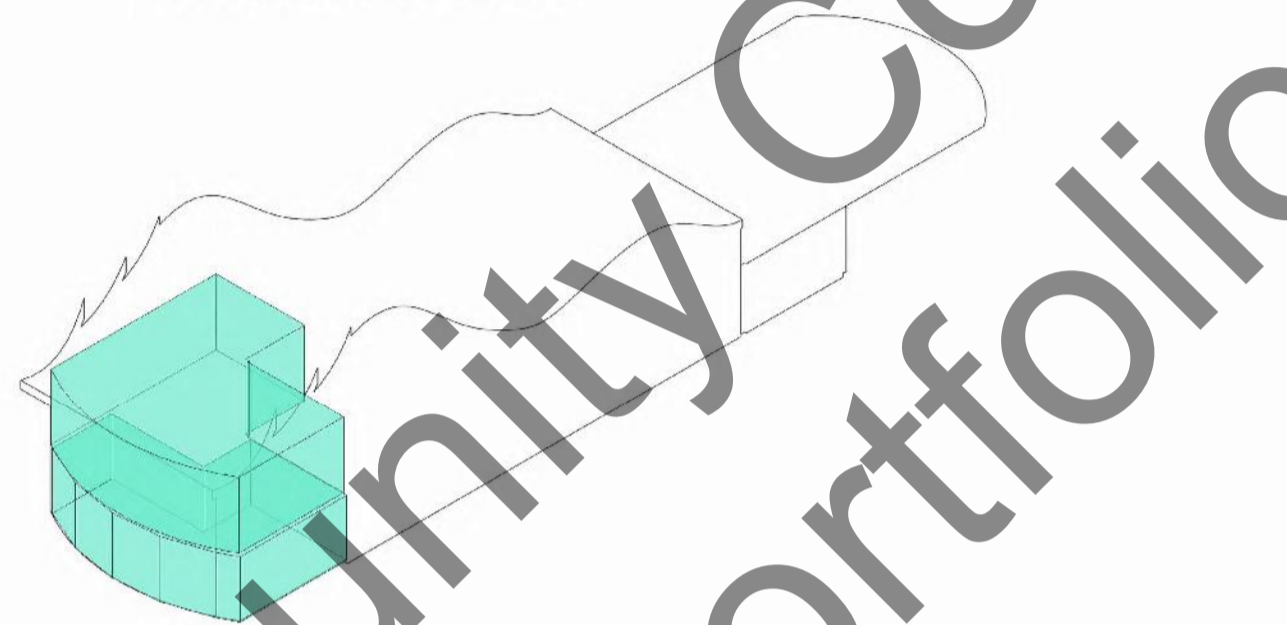
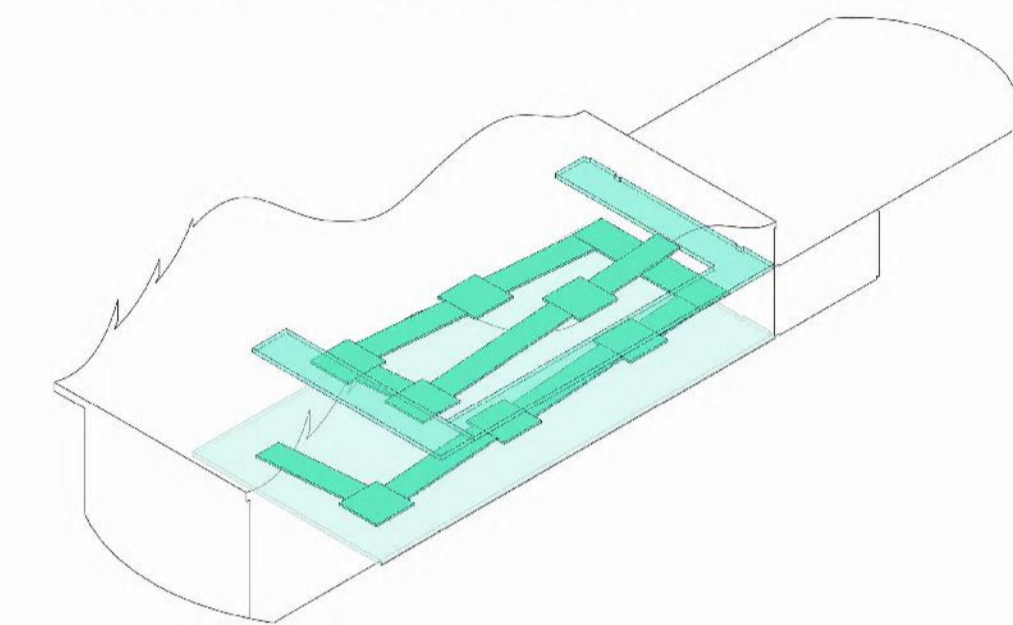
WEST ELEVATION

EAST ELEVATION



CIRCULATION DIAGRAM

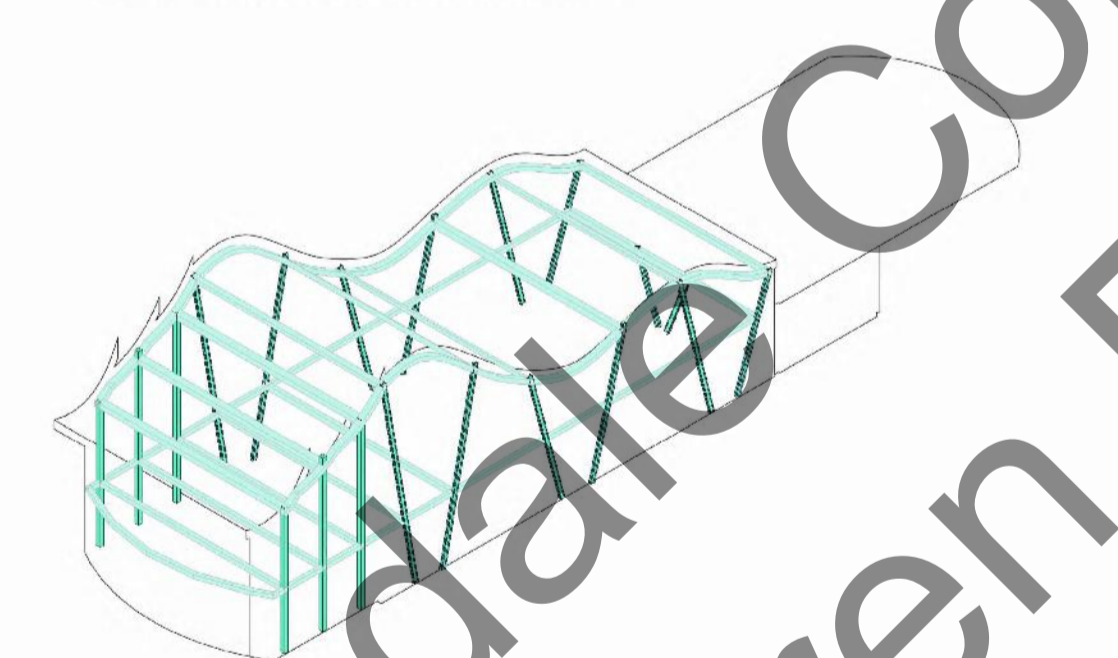
PROGRAM DIAGRAM



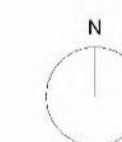
■ VERTICAL CIRCULATION
■ HORIZONTAL CIRCULATION PER FLOOR

■ PRIVATE: BEDROOM, WALK-IN CLOSET, BEDROOM
■ PUBLIC: ROOF GARDEN, KITCHEN, LIVING ROOM, DINNING

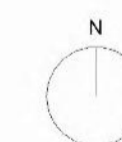
STRUCTURAL DIAGRAM



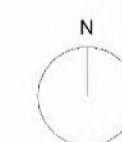
■ VERTICAL STRUCTURE SUPPORT: COLUMNS
■ HORIZONTAL STRUCTURAL SUPPORT: FLOOR PLATES AND BEAMS



GROUND FLOOR



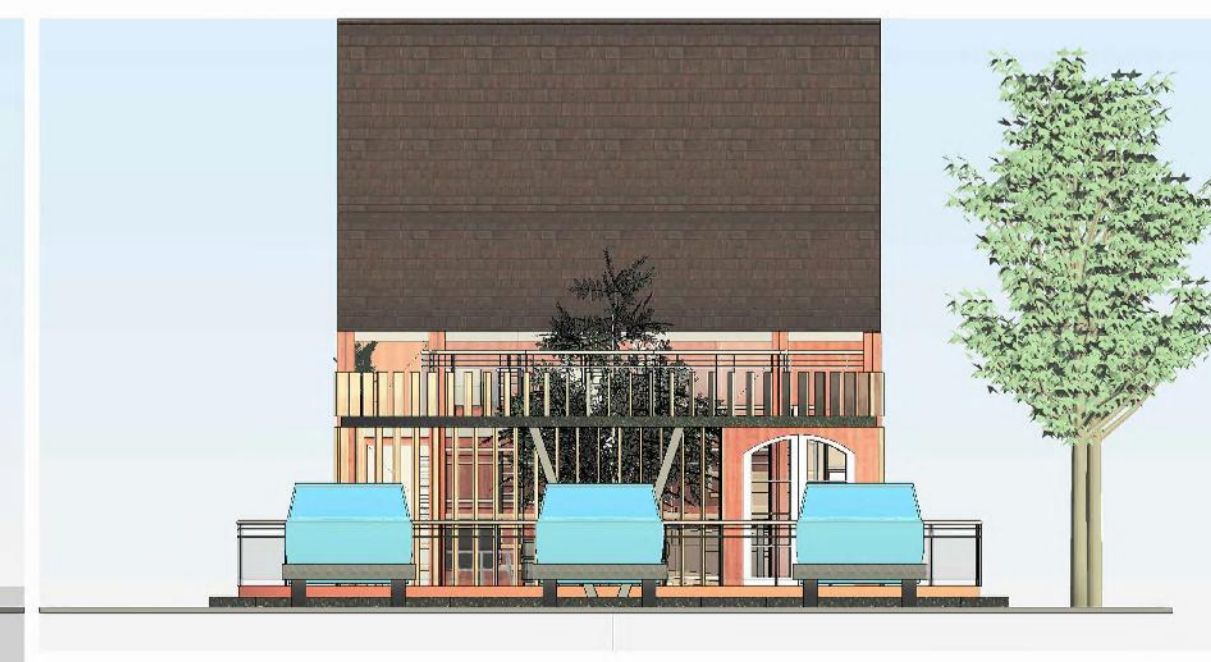
LEVEL 1



ROOF PLAN



SECTION CUT

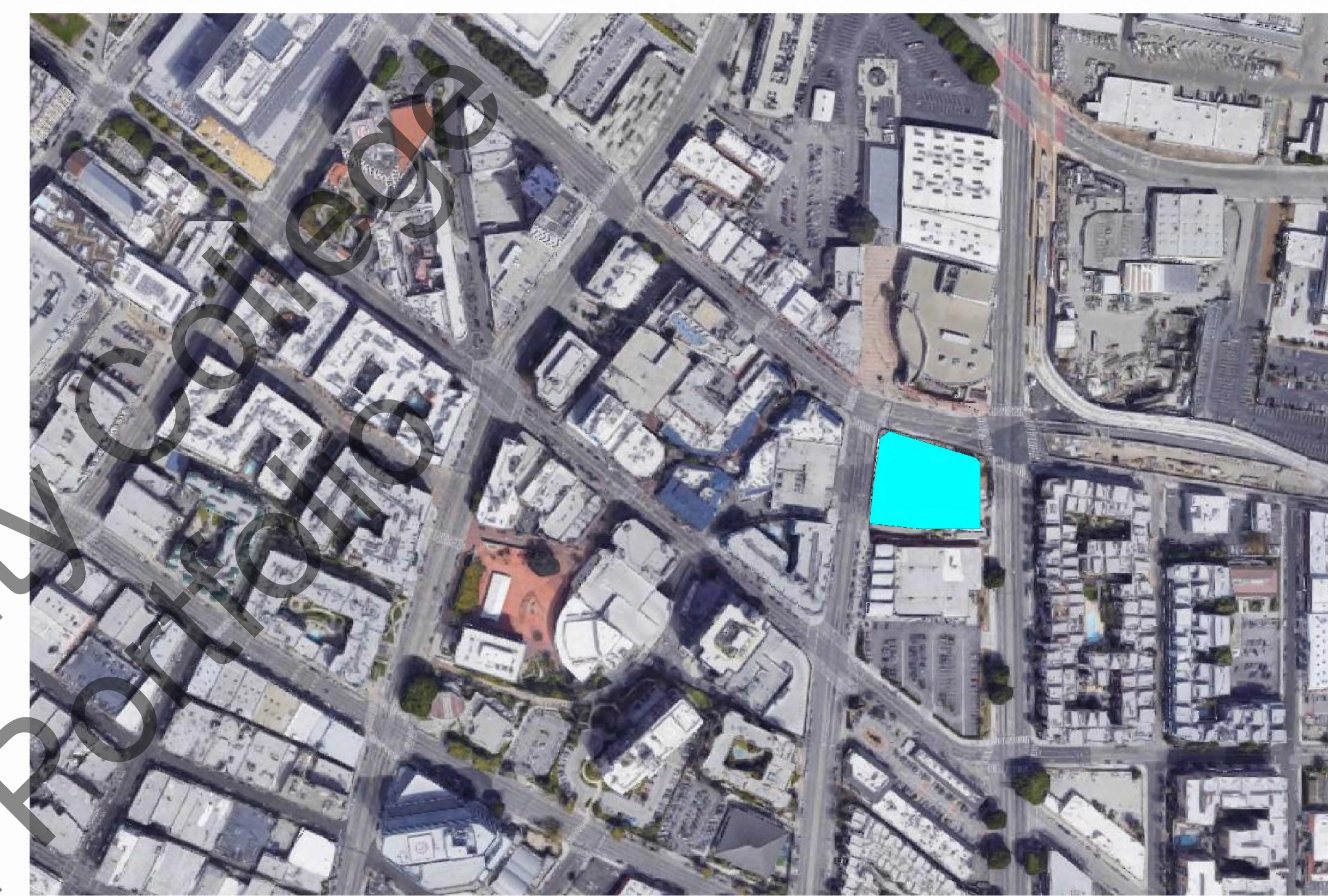


NORTH ELEVATION

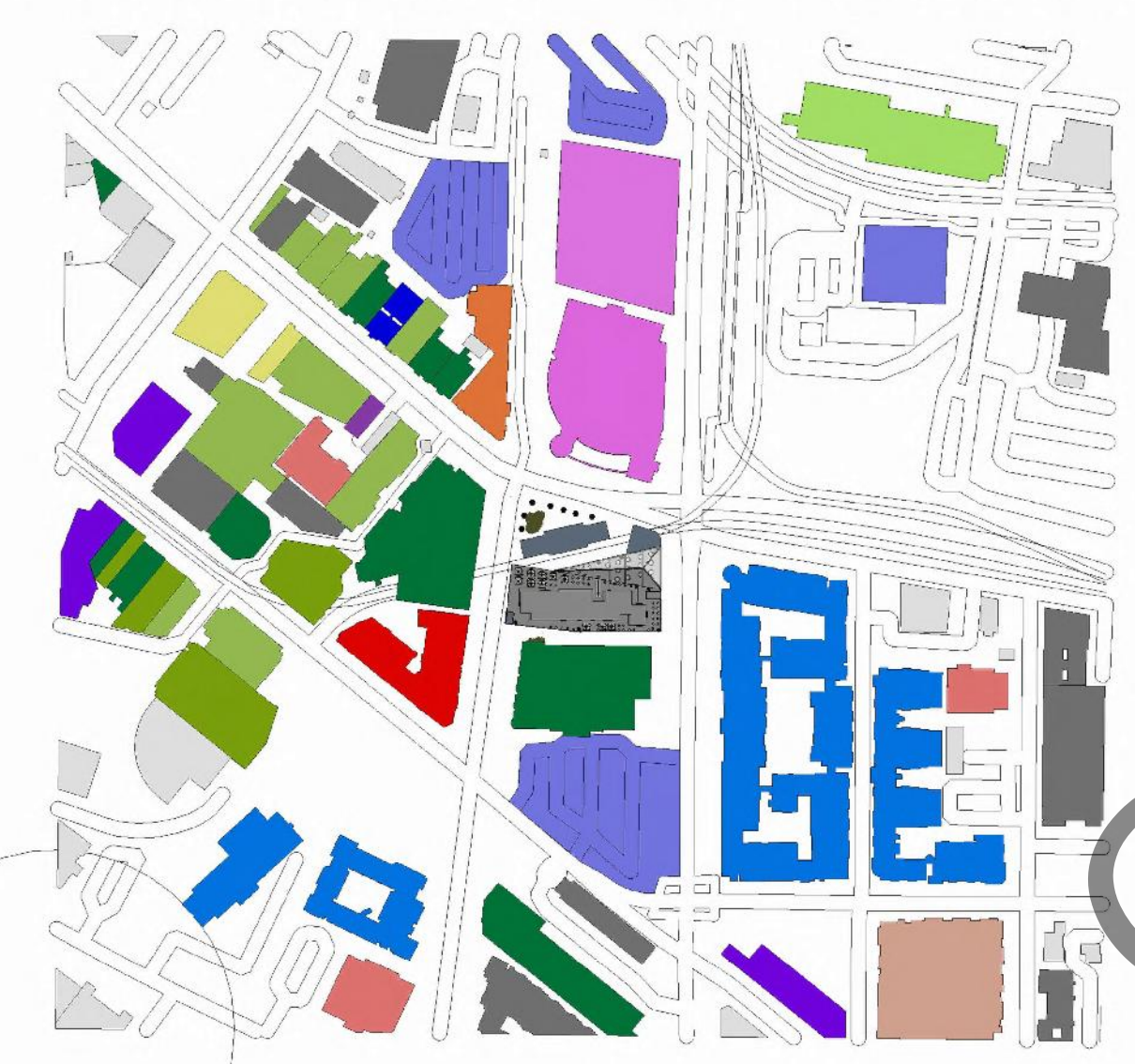
MIX USE PROJECT / LITTLE TOKYO

SITE LOCATION

The site is located in 401 East 1st Street, Los Angeles, CA.

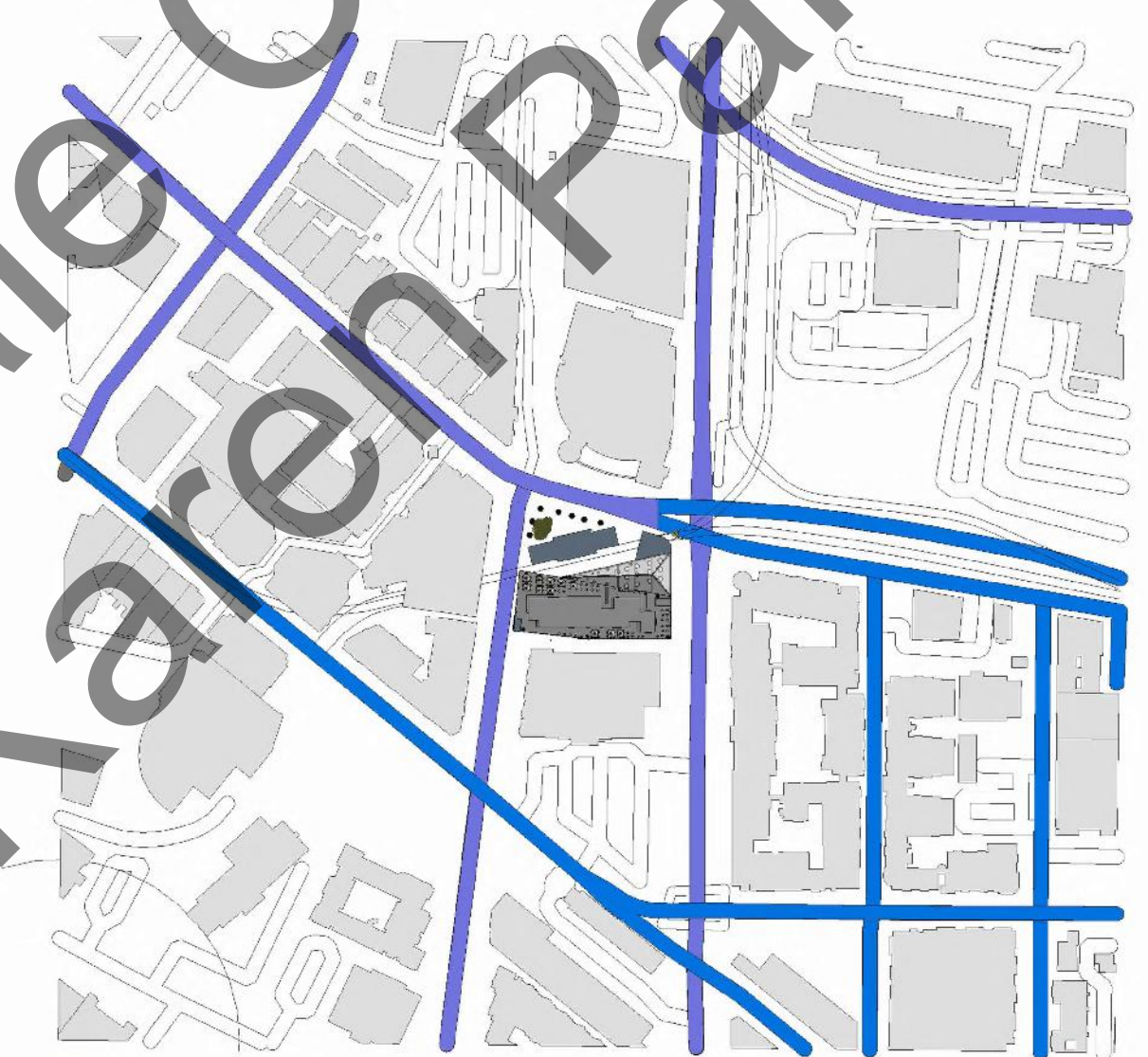


NEIGHBORHOOD DIAGRAM



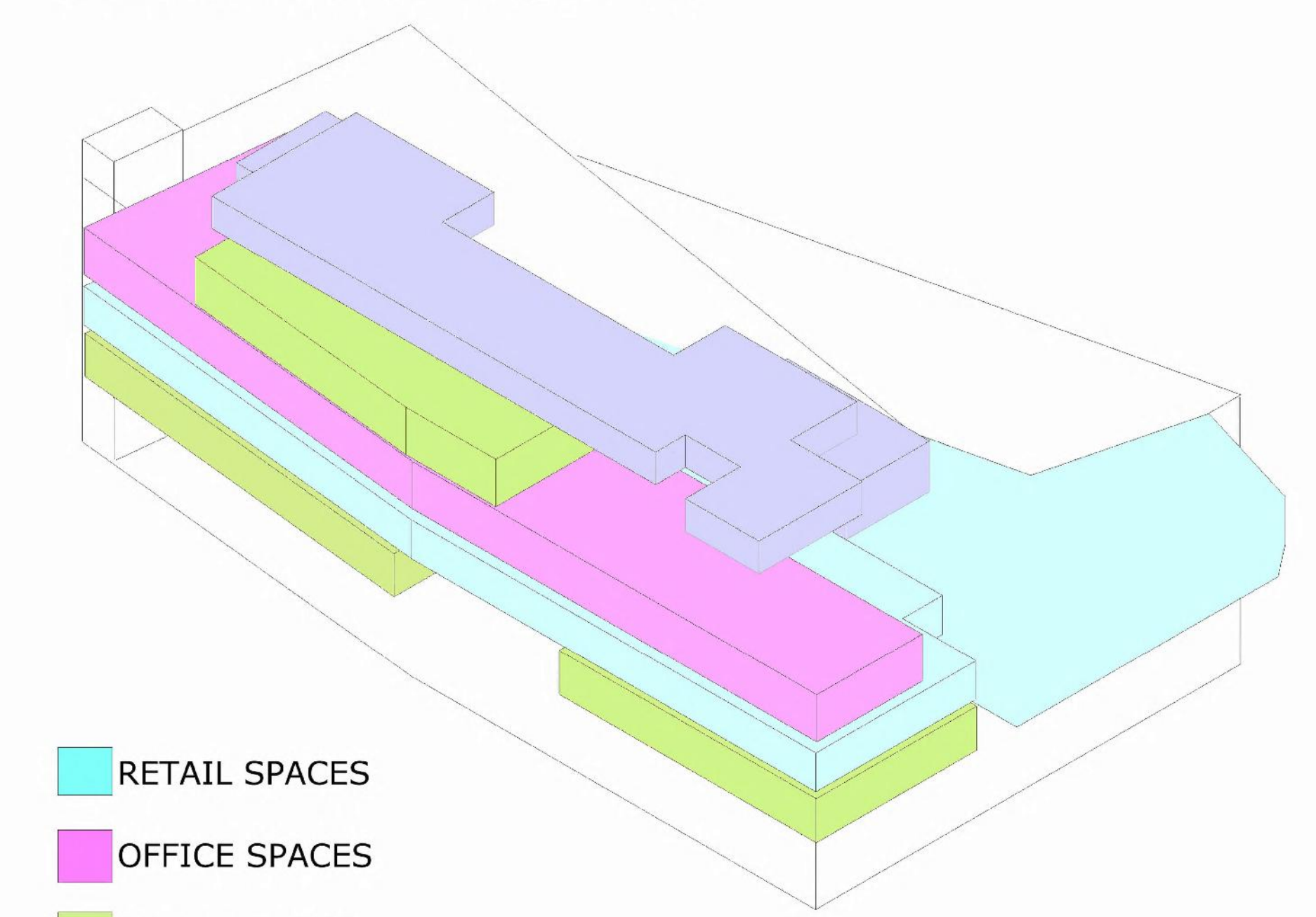
- MUSEUM
- BANK
- RETAIL
- RESTAURANTS / BAR
- OFFICE
- LIVING UNITS
- TEMPLE / CHURCH
- HOTEL
- MIXED-USE BUILDING
- PARKING LOT

TRAFFIC DIAGRAM



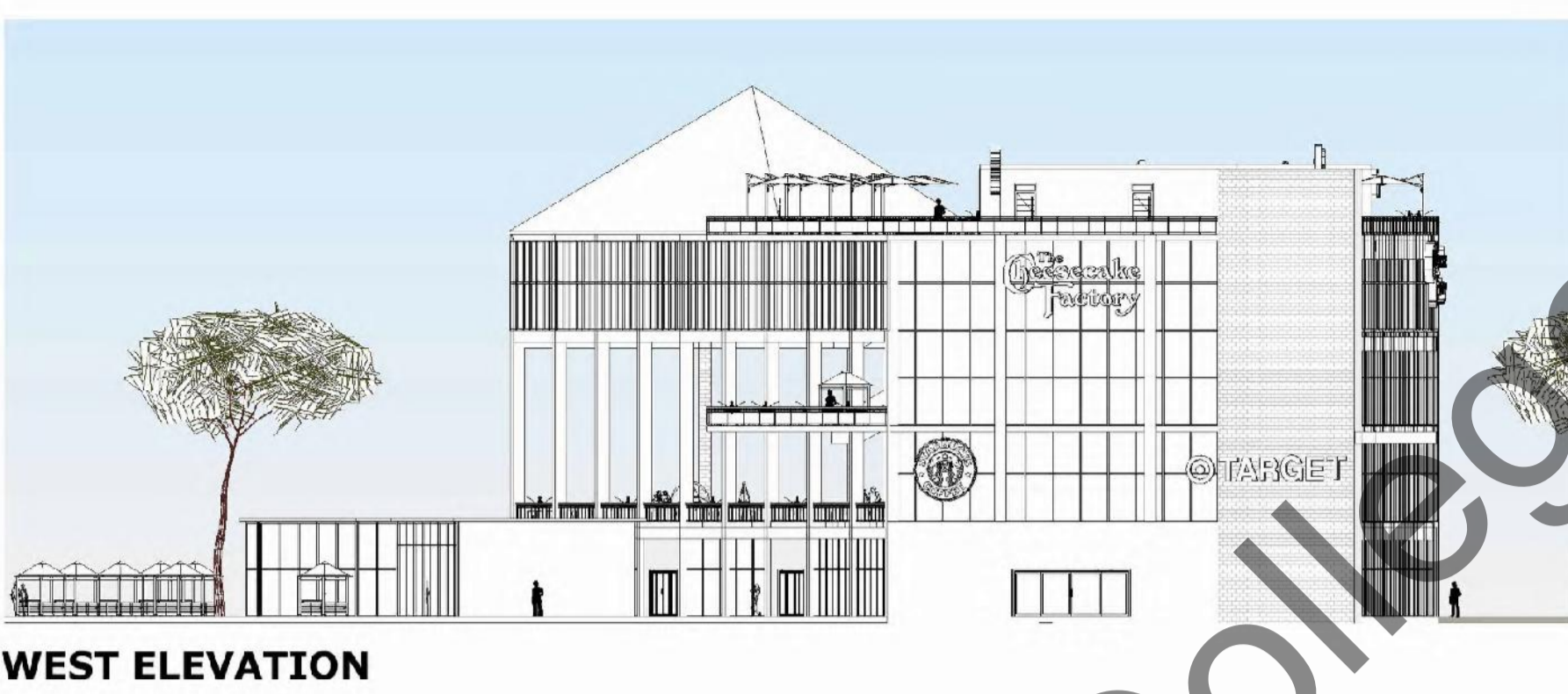
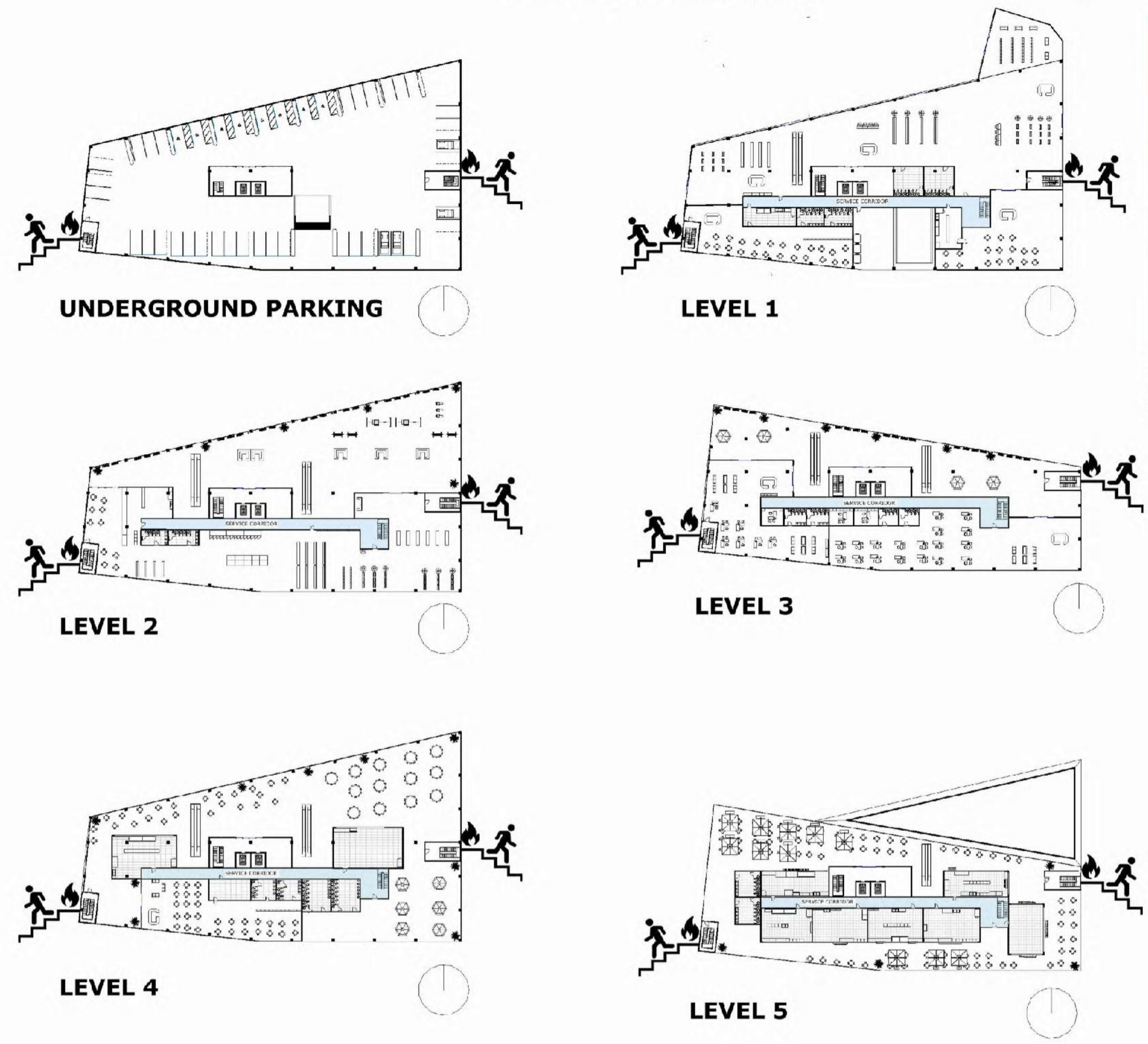
- TWO LANES
- THREE LANES
- FOUR LANES
- FIVE LANES

PROGRAM DIAGRAM

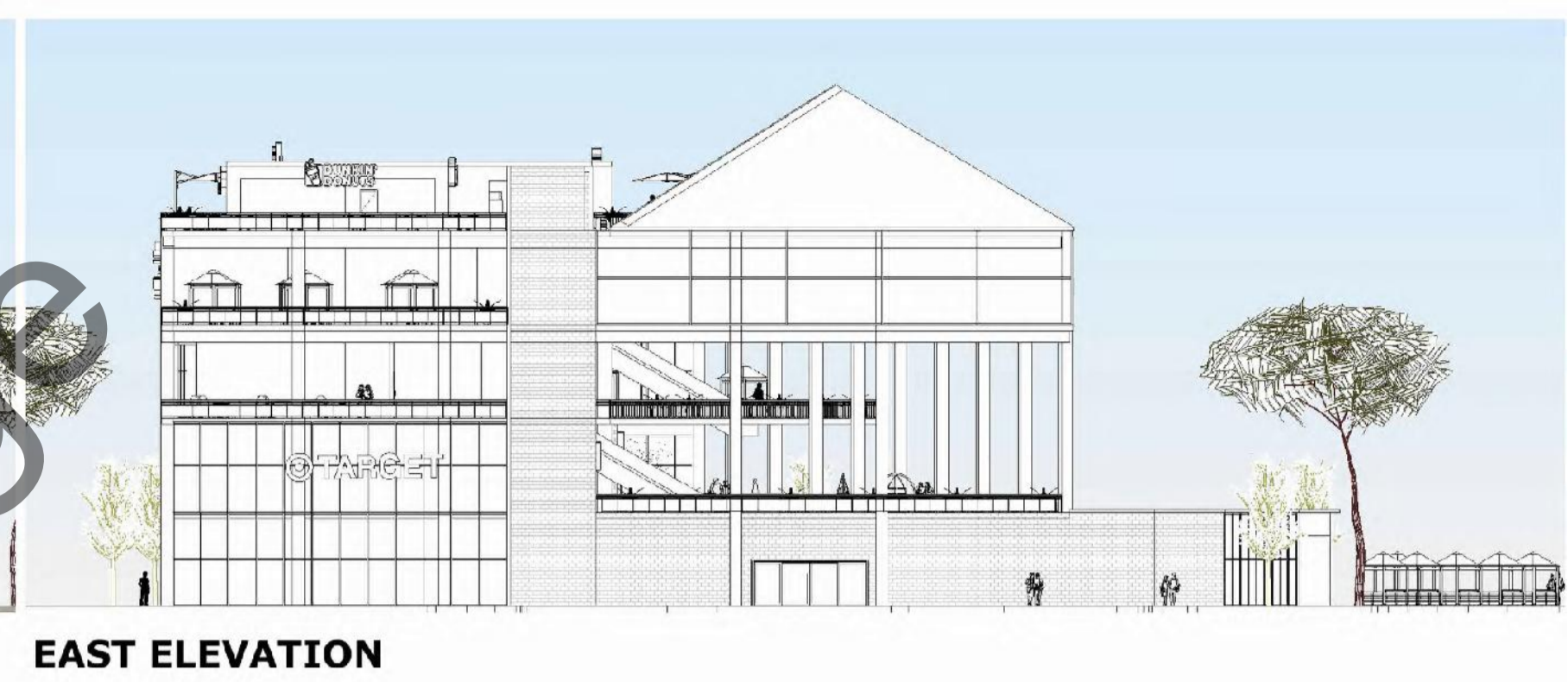


- RETAIL SPACES
- OFFICE SPACES
- RESTAURANTS
- FAST FOOD RESTAURANTS

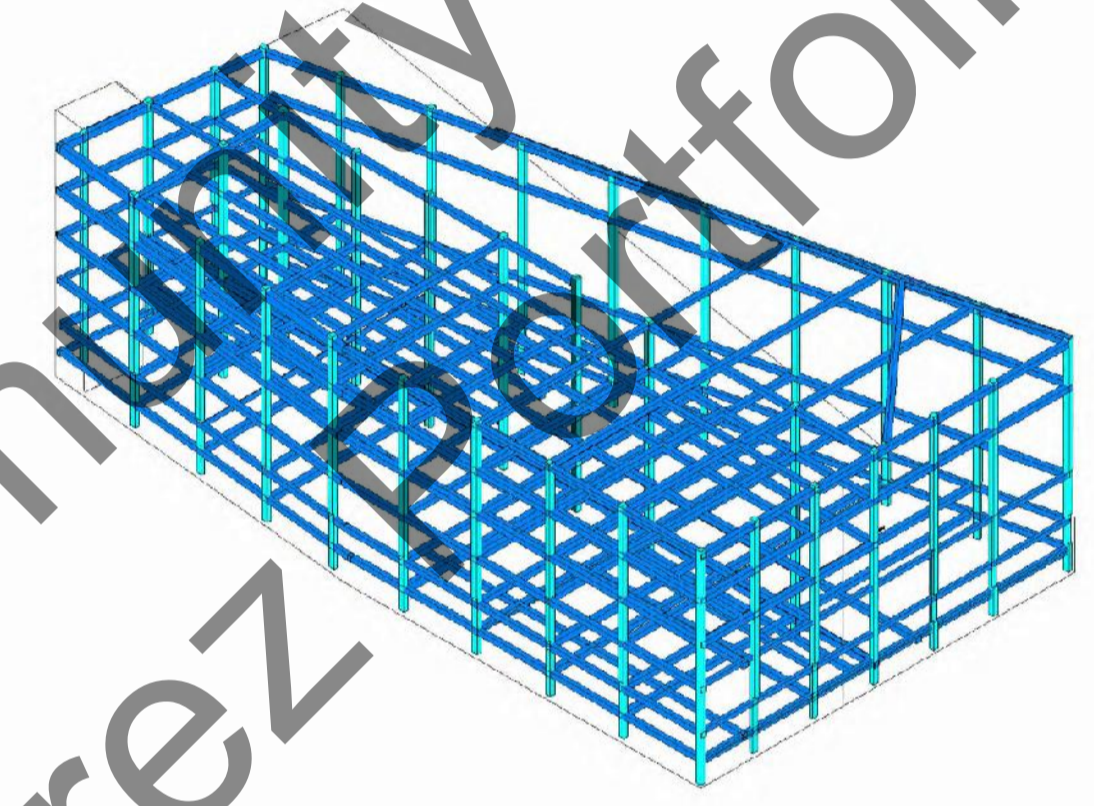
FLOOR PLANS



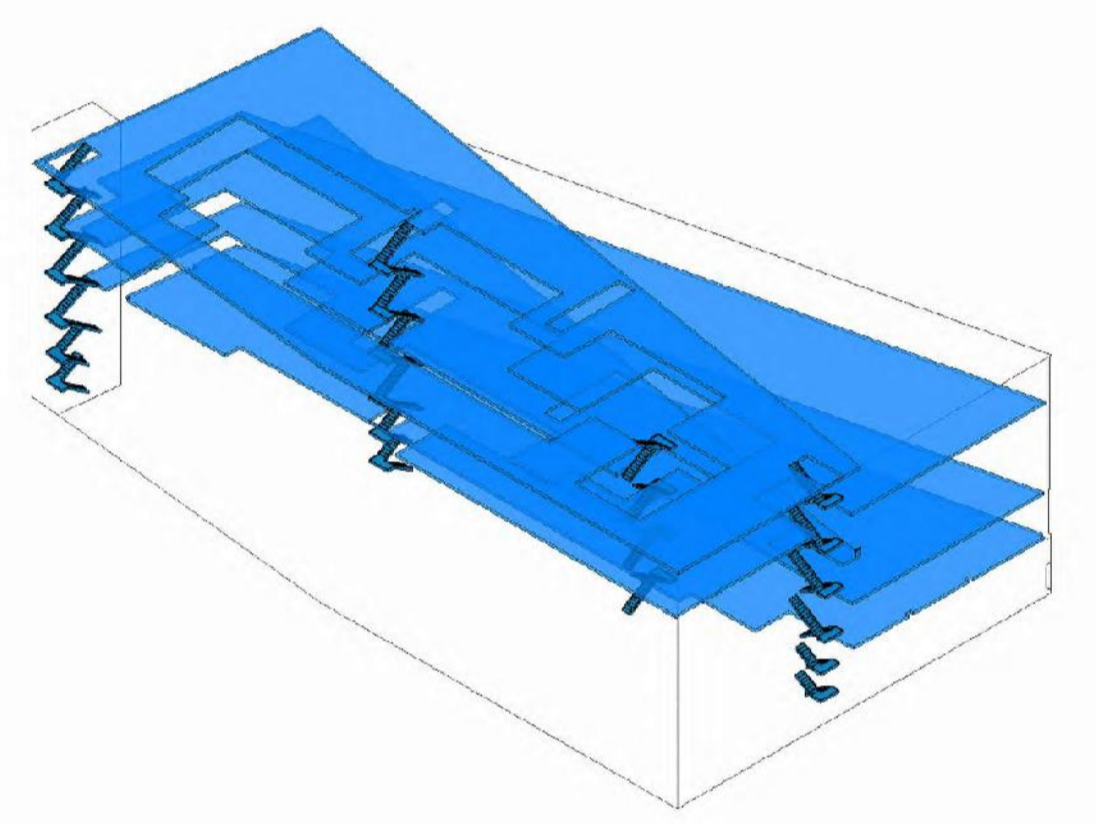
WEST ELEVATION



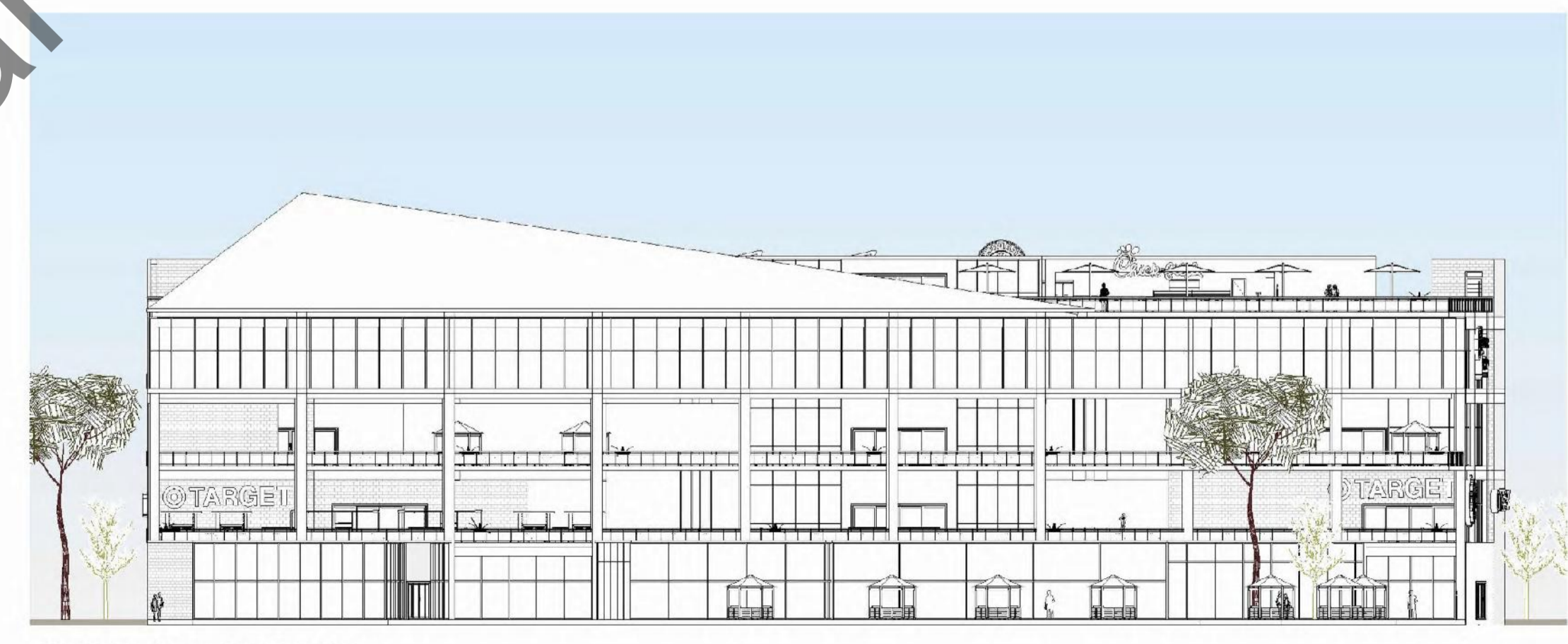
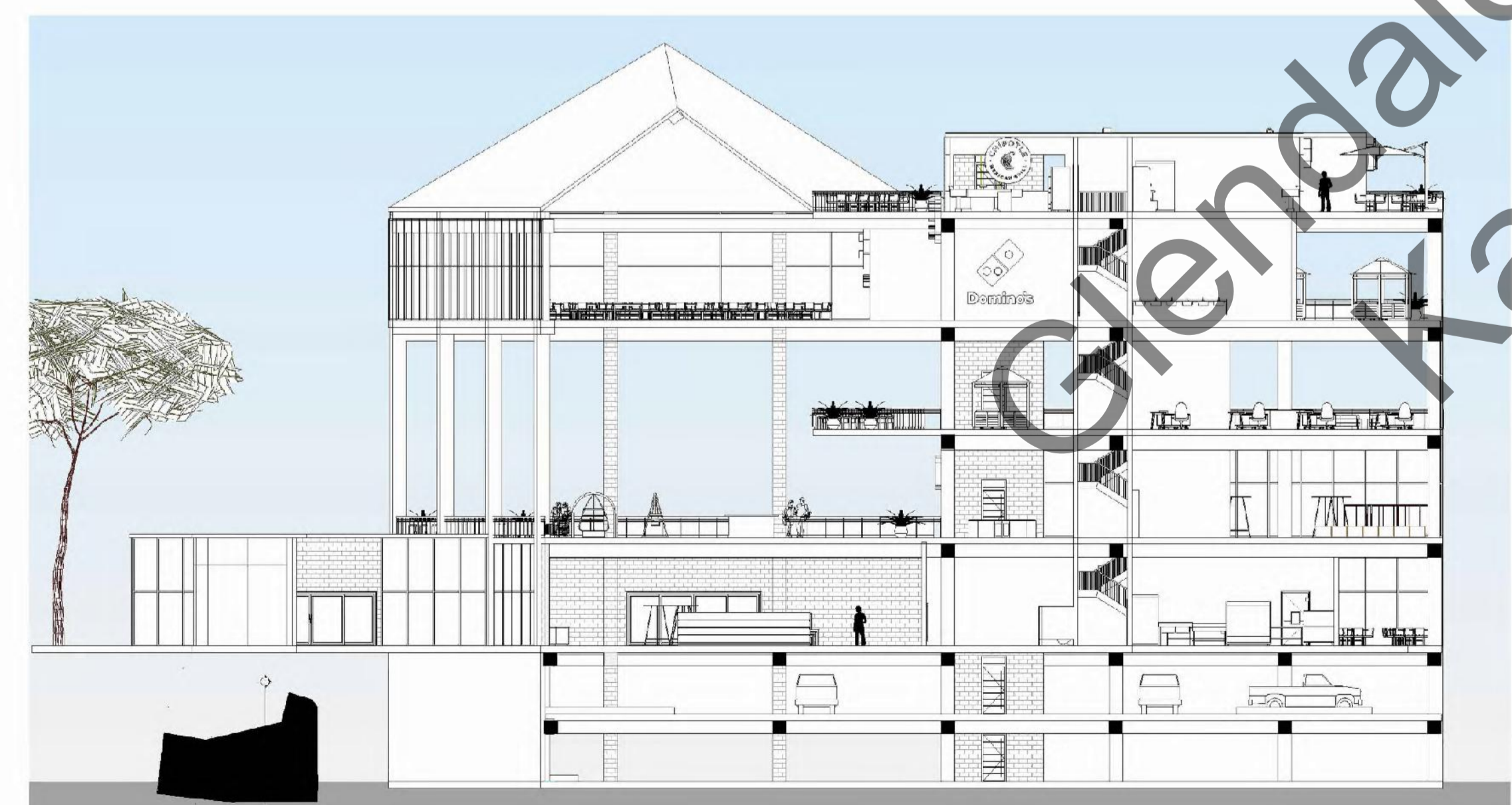
EAST ELEVATION



STRUCTURAL DIAGRAM
VERTICAL STRUCTURAL SUPPORT
HORIZONTAL STRUCTURAL SUPPORT



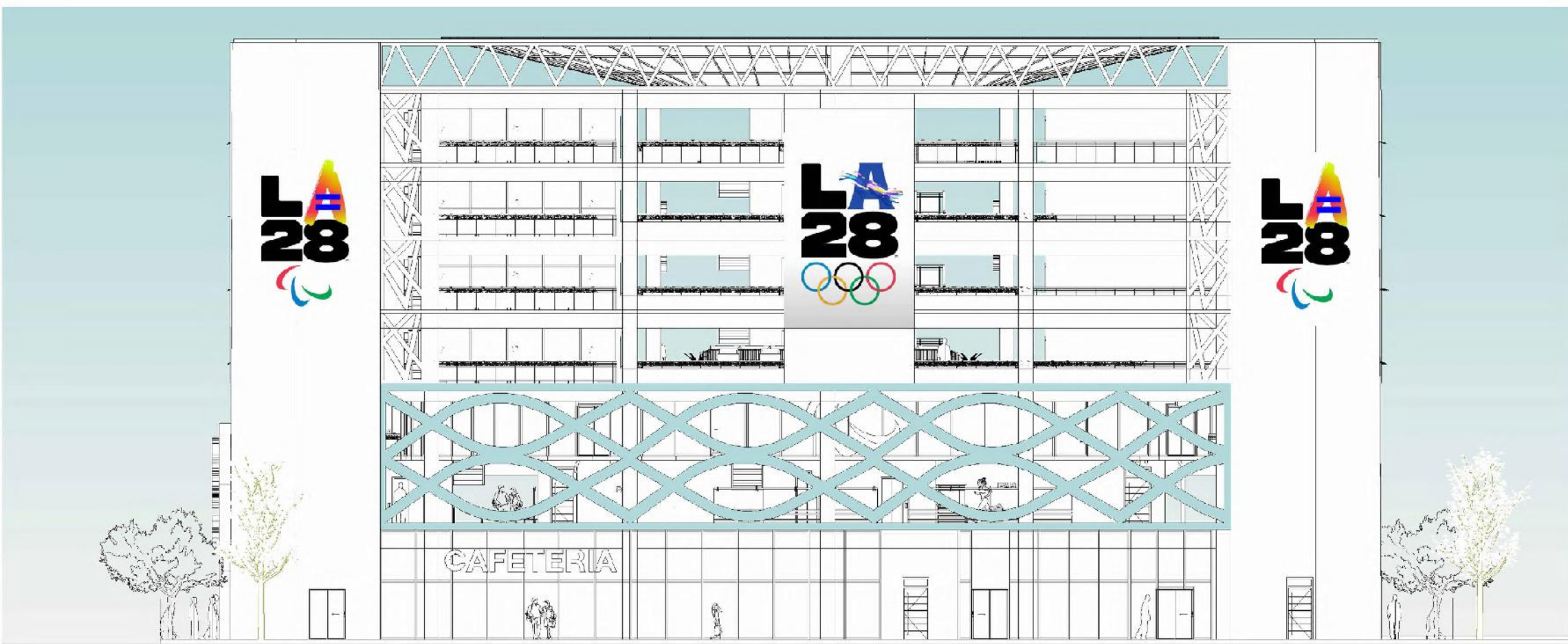
CIRCULATION DIAGRAM



NORTH ELEVATION

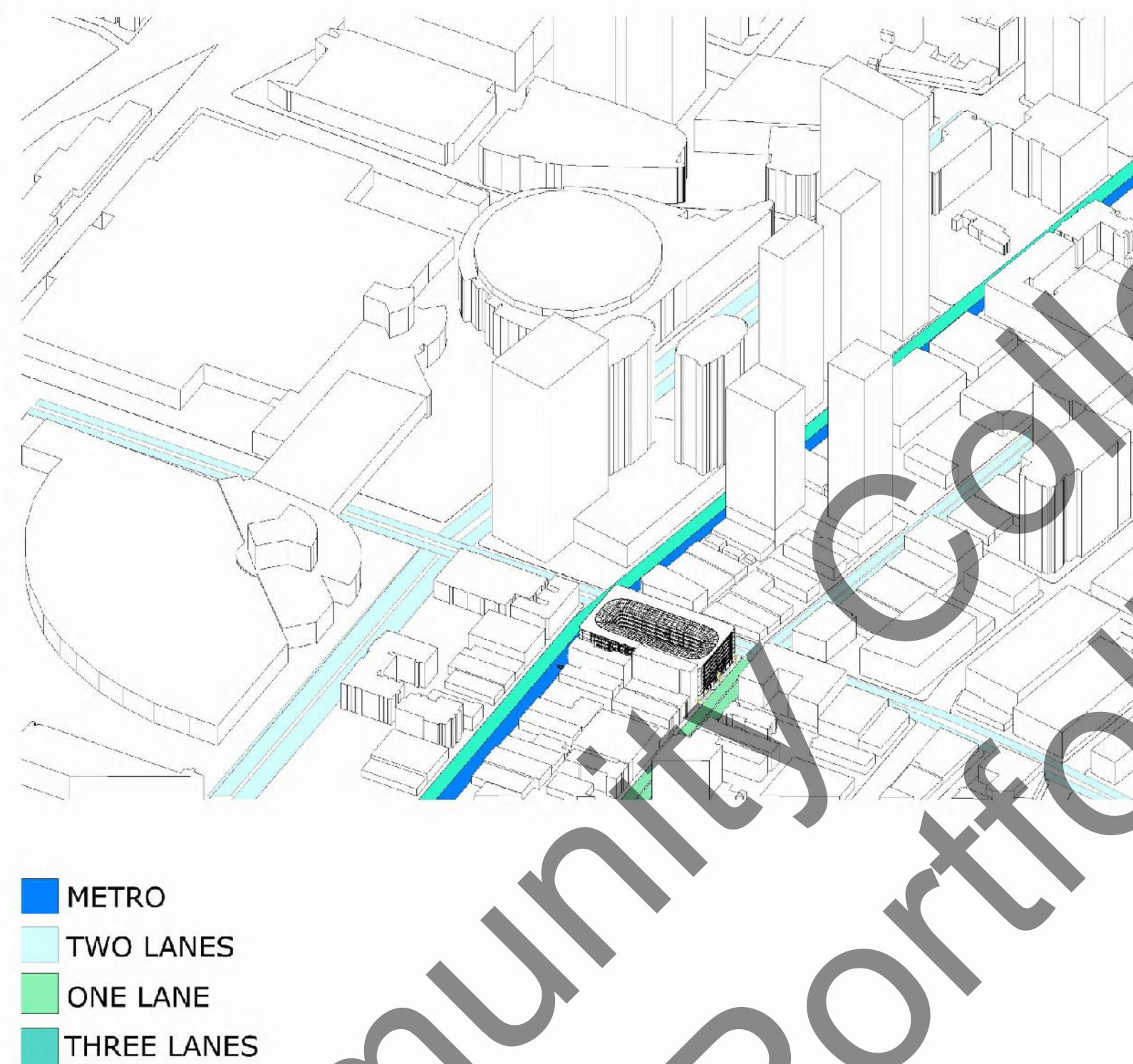


PARALYMPIC TRAINING CENTER

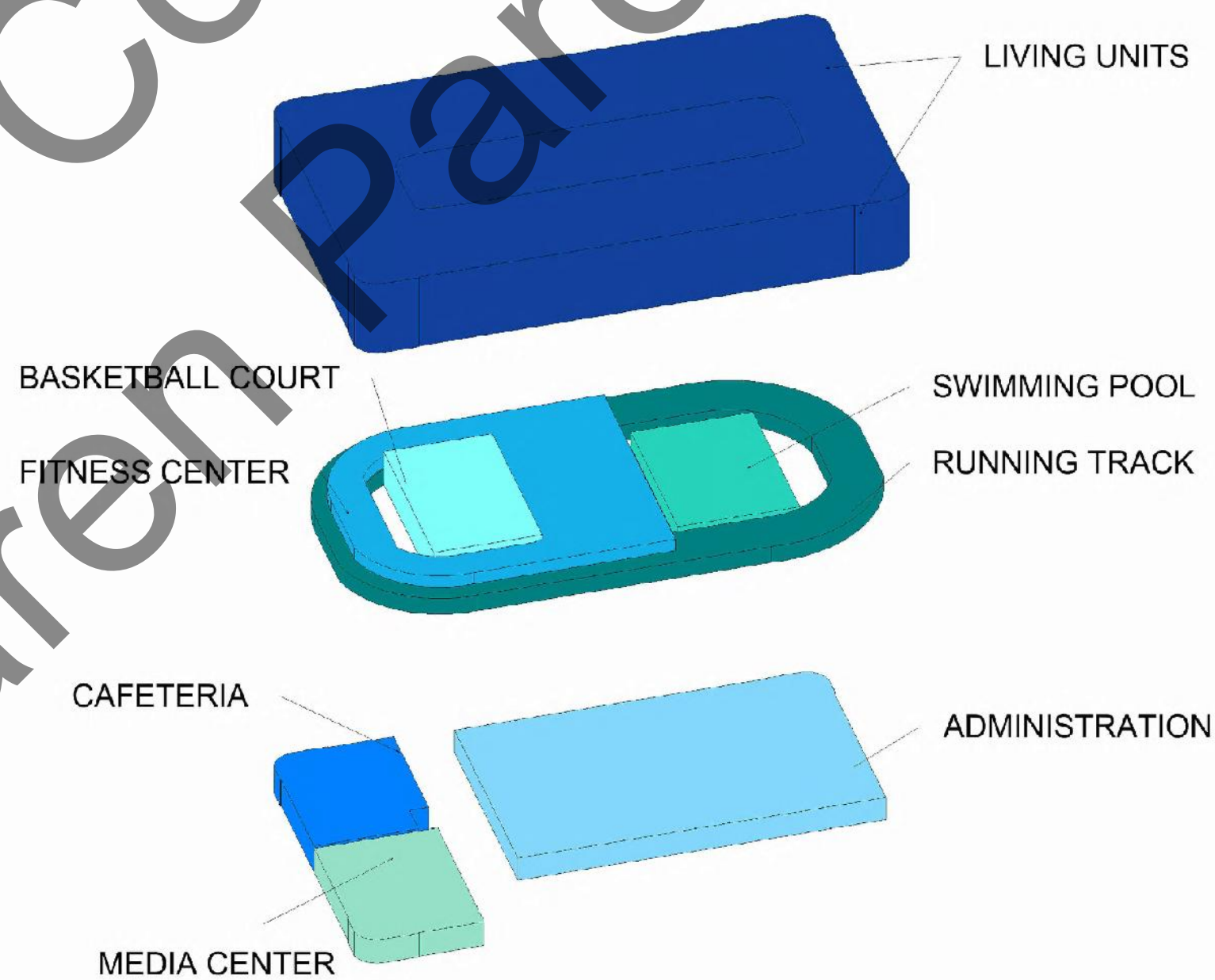


This training facility is meant to be a place where Paralympians with various disabilities can train, collaborate and demonstrate their various skills. The design of the training facility is similar to a stadium, where athletes are able to witness paralympians training from different levels of the building. Moreover, it represents the movement and union between athletes.

TRAFFIC DIAGRAM



PROGRAM DIAGRAM

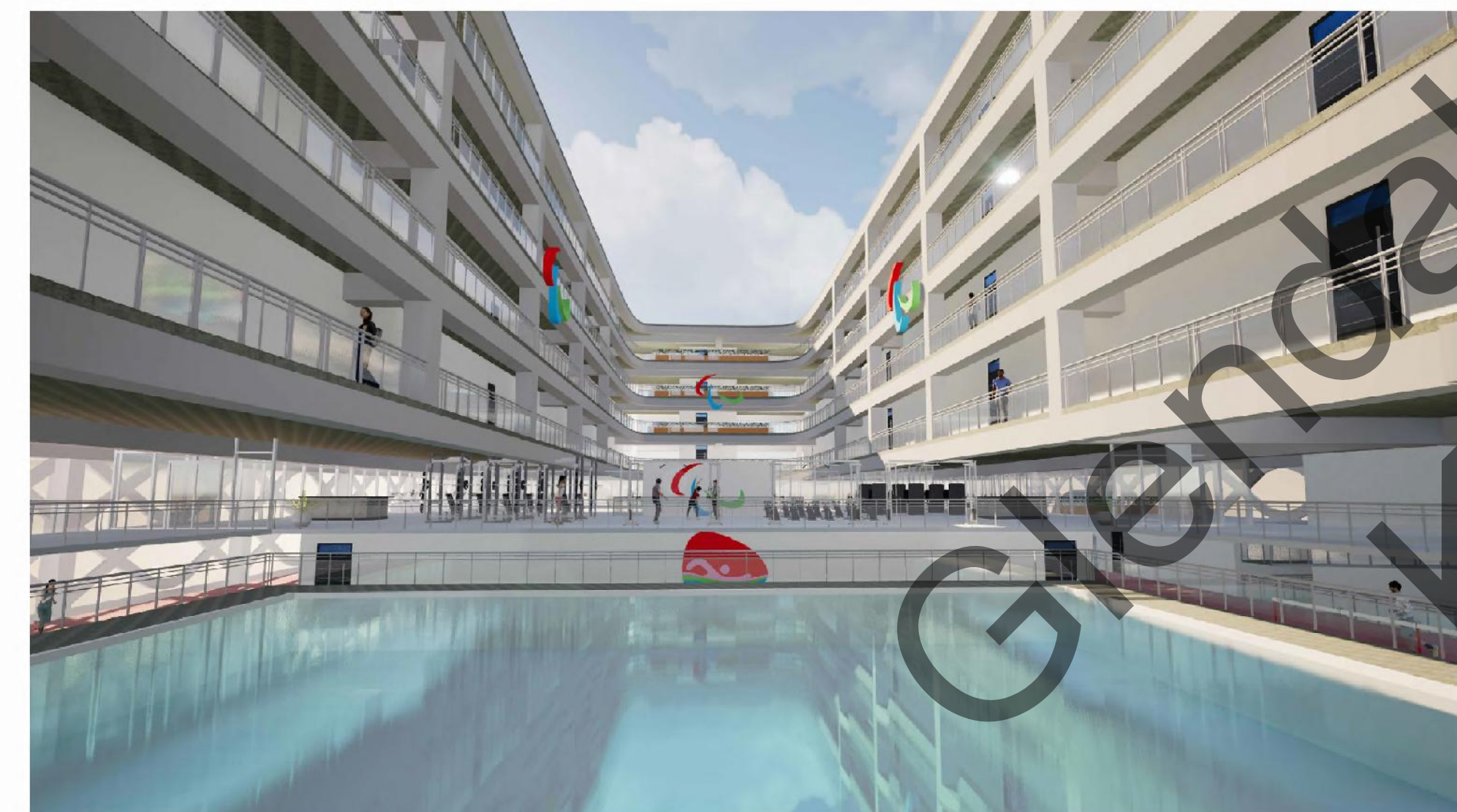


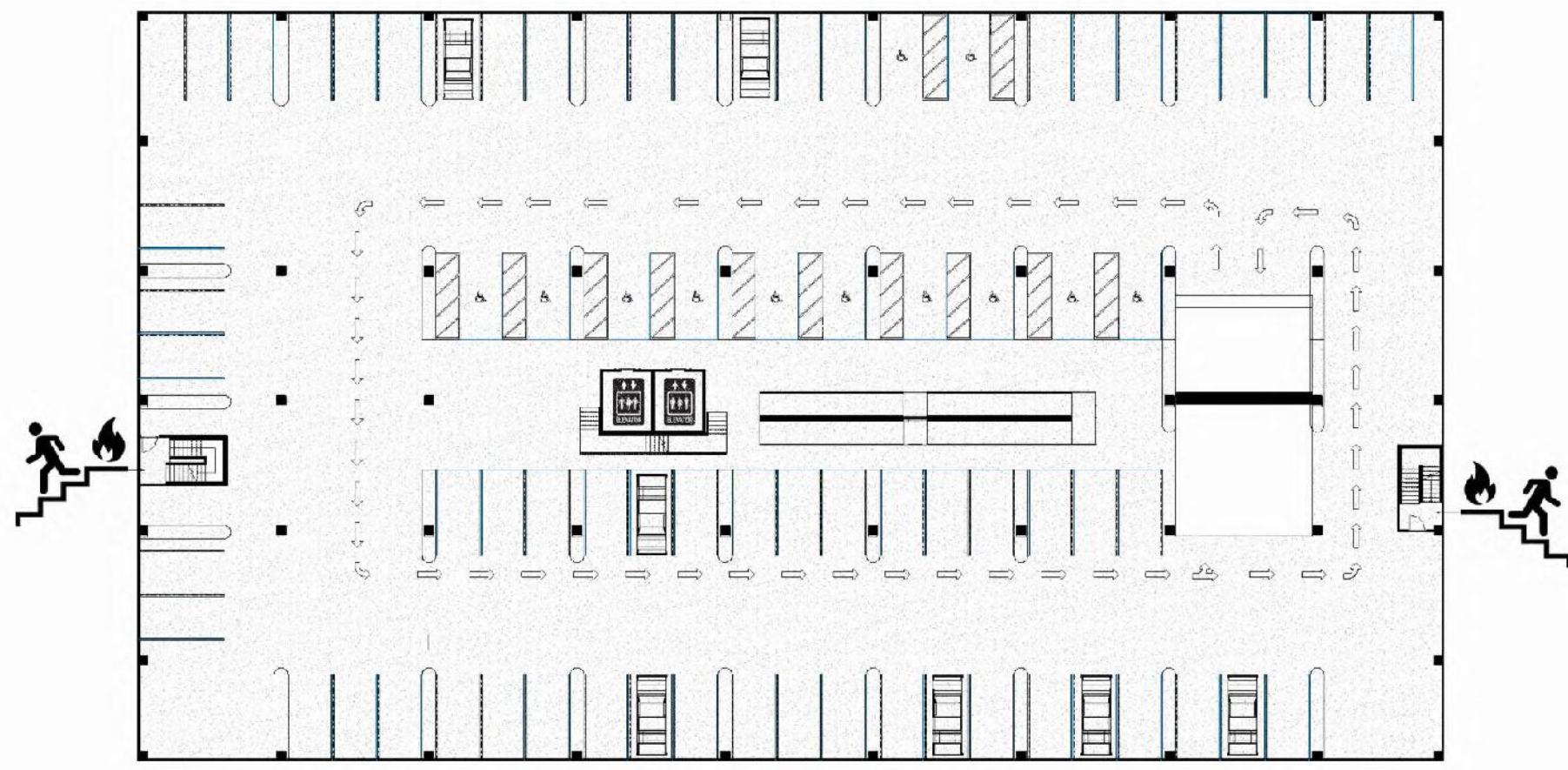
The site location is 520 Pico Blvd, Los Angeles CA, the corner of Pico Blvd and South Flower Street. Los Angeles, will host the olympic and paralympic games in 2028. Some of the main venues are within 3 miles away from the training center, making it an ideal location for athletes to train.



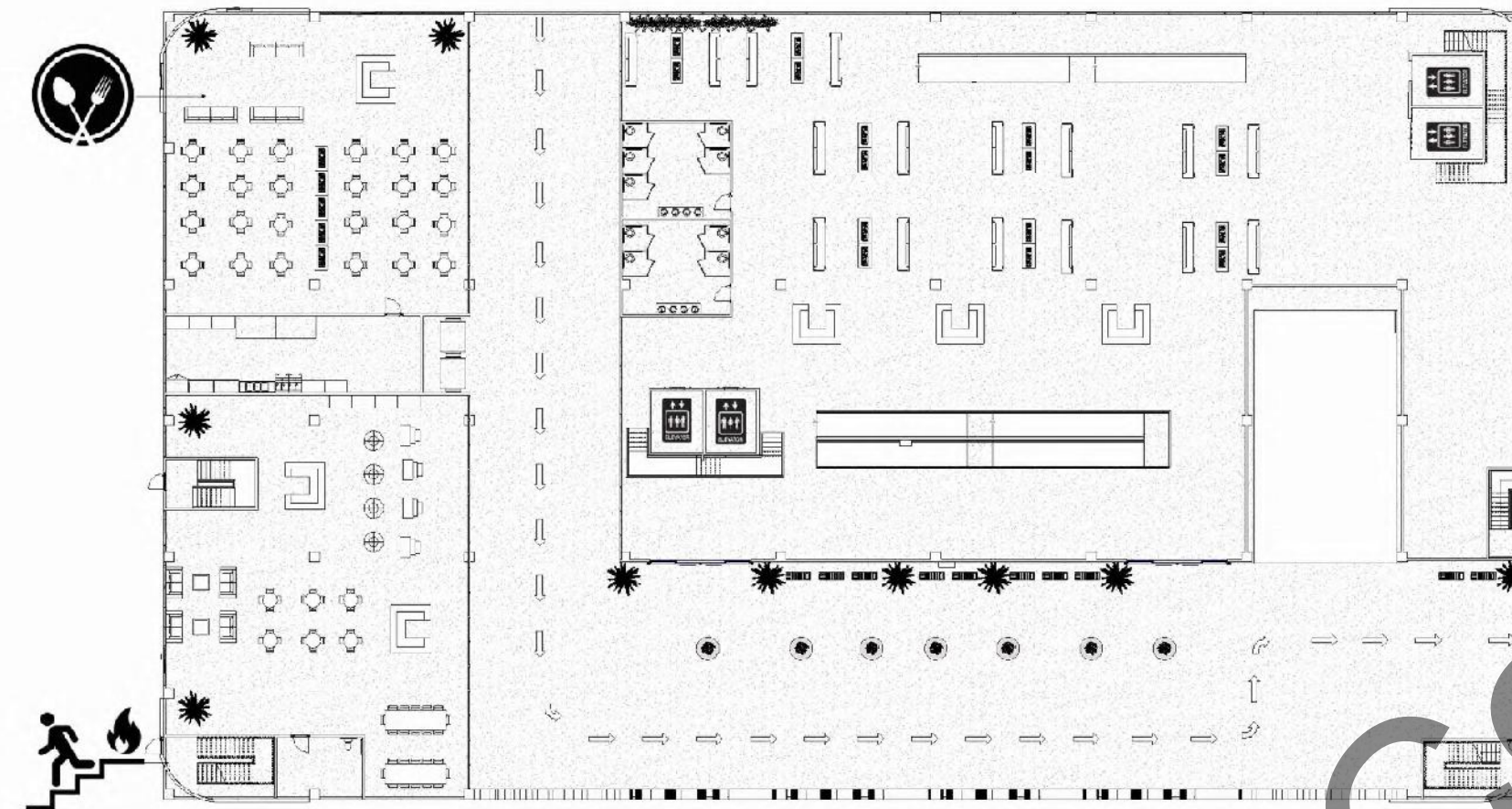
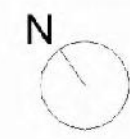
CONCEPT: Physical movement and union between athletes

VIEW TO STADIUM

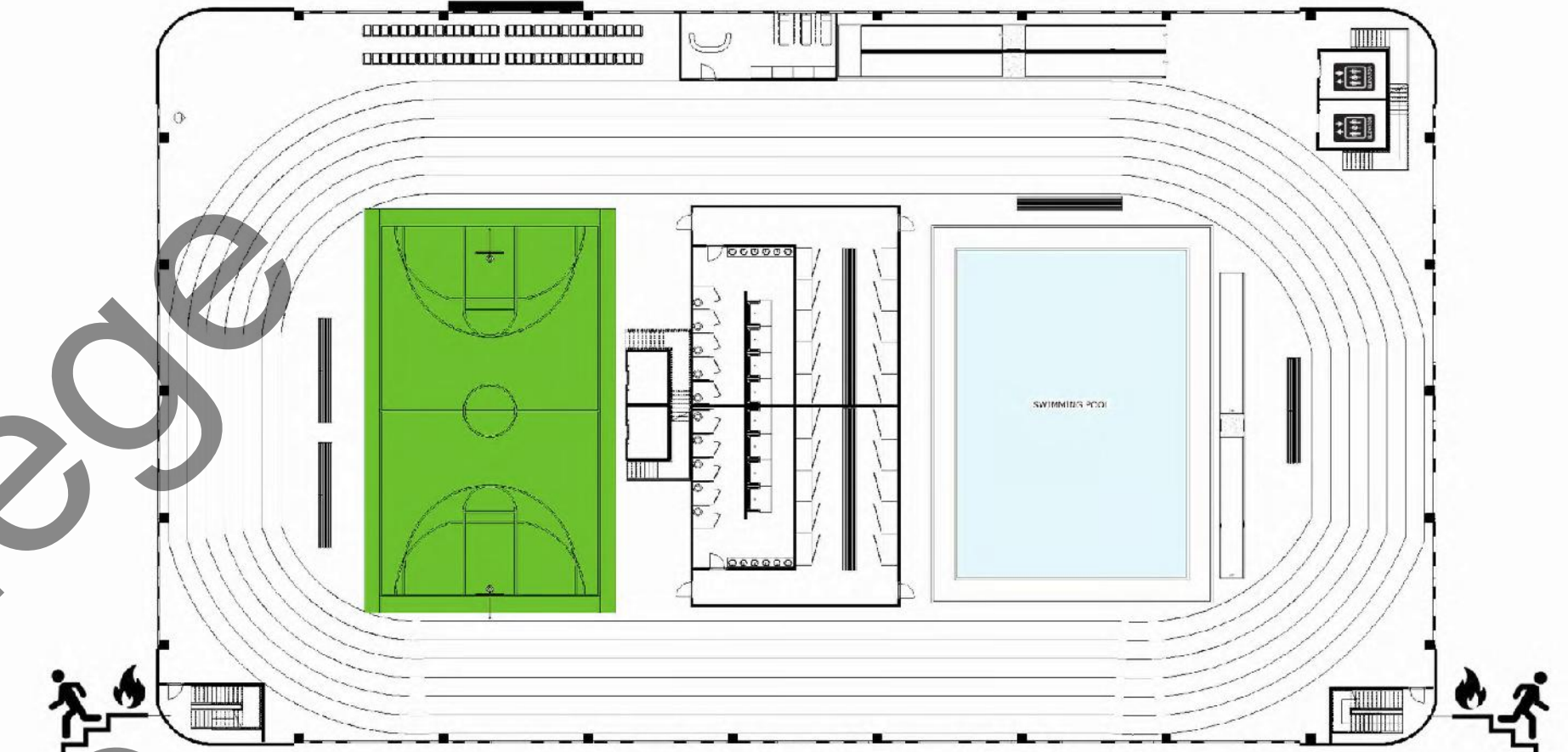




UNDERGROUND PARKING



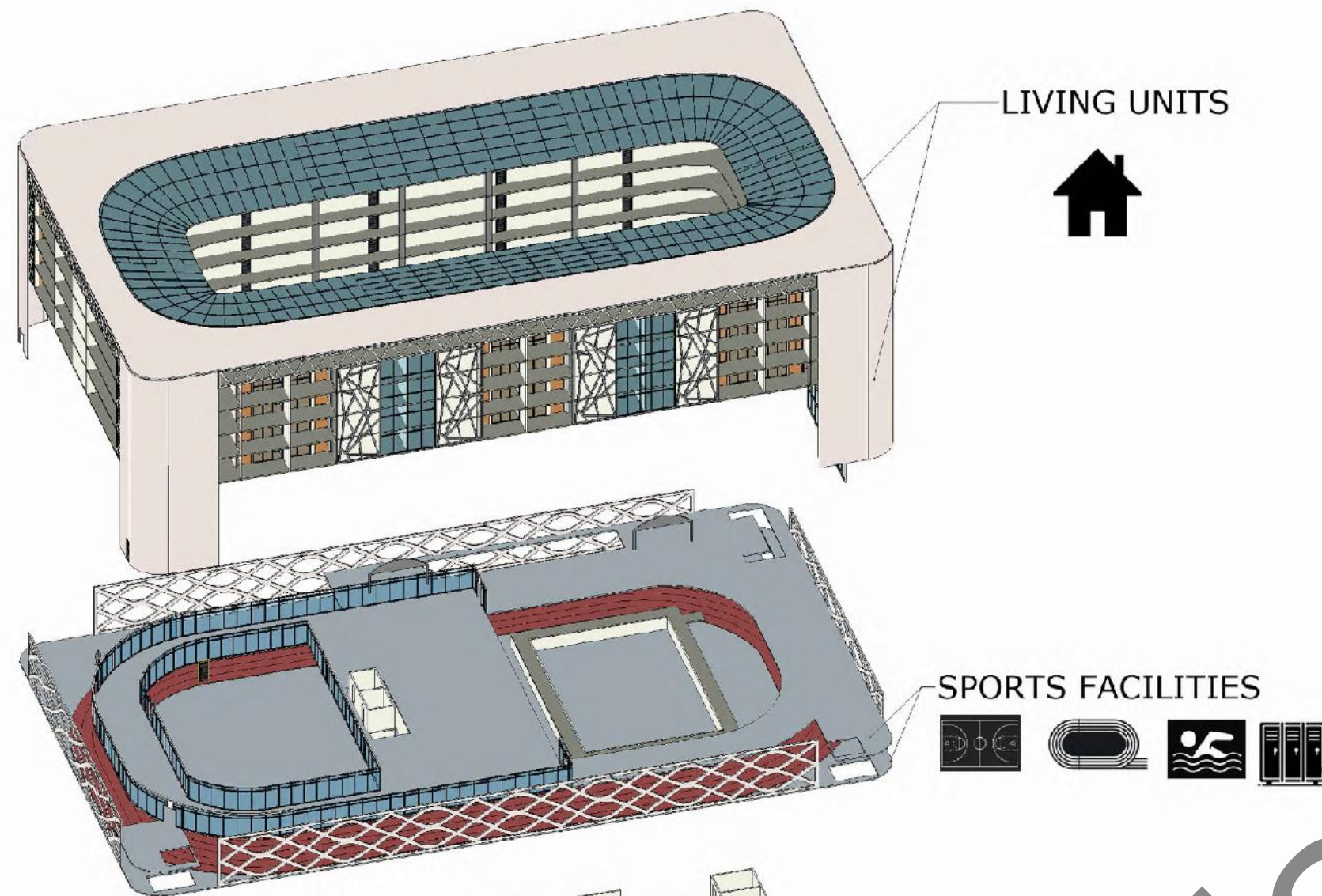
GROUND LEVEL



LEVEL 1



EXPLODED VIEW



LIVING UNITS



SPORTS FACILITIES



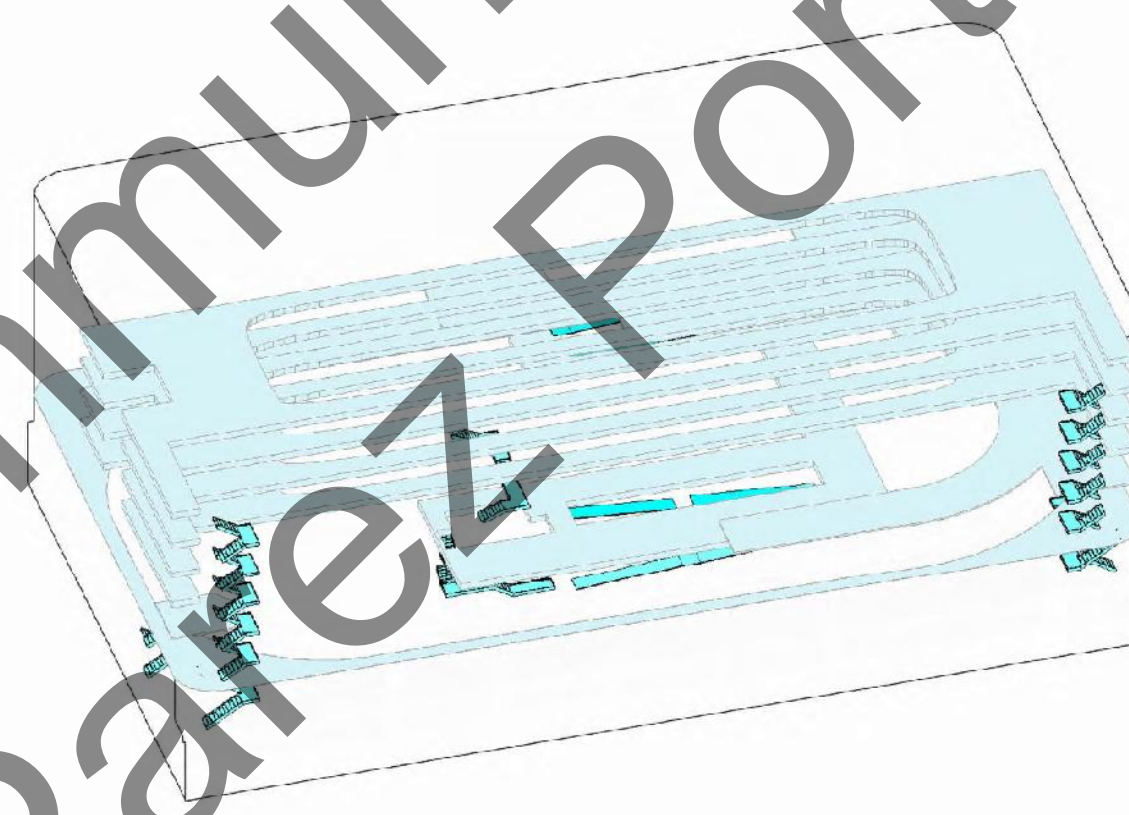
ADMINISTRATION

CAFETERIA

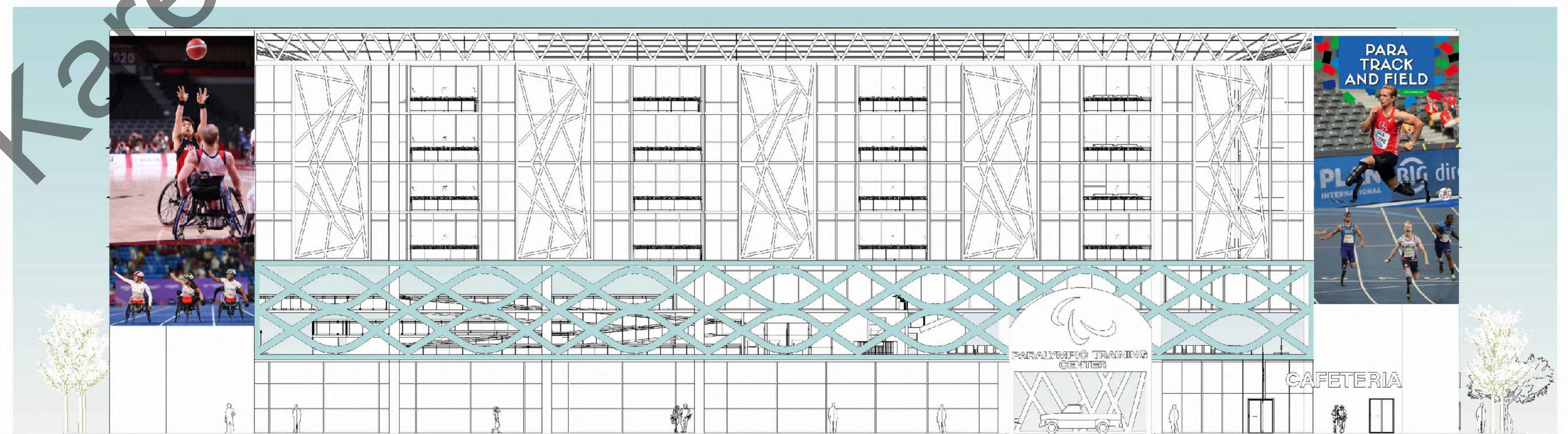
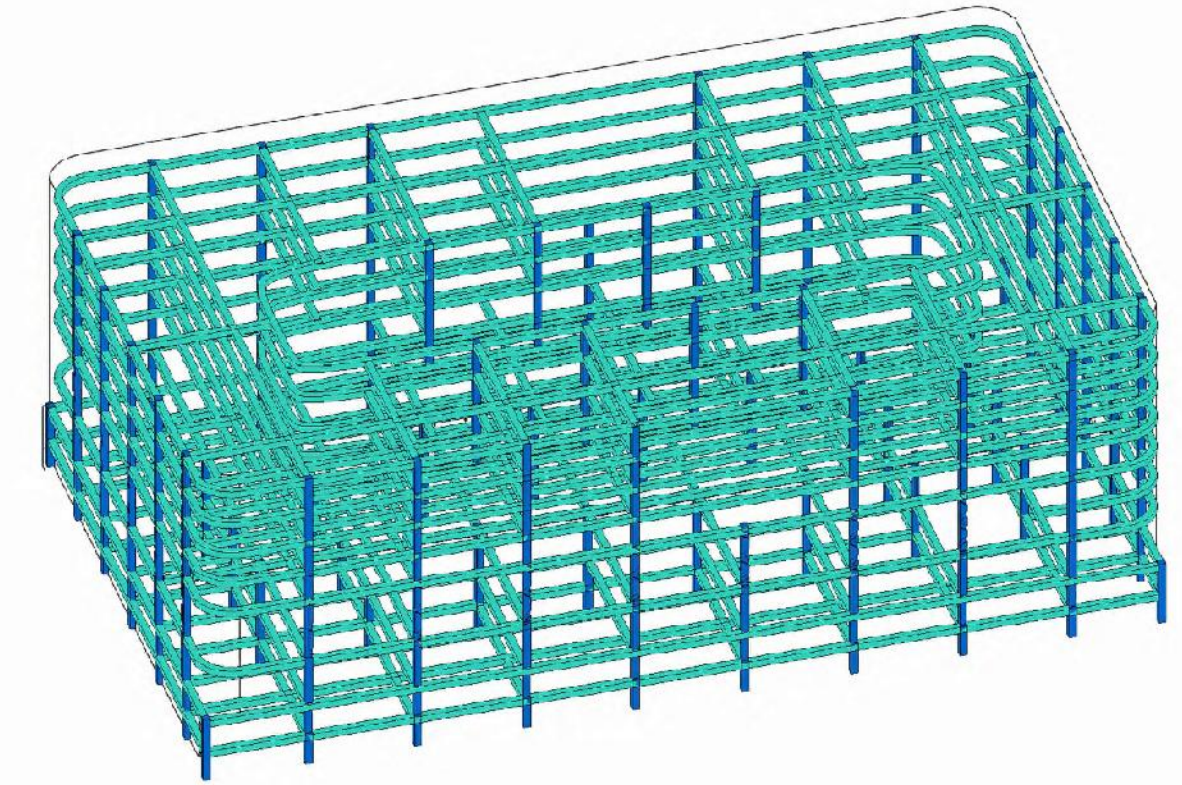


MEDIA CENTER

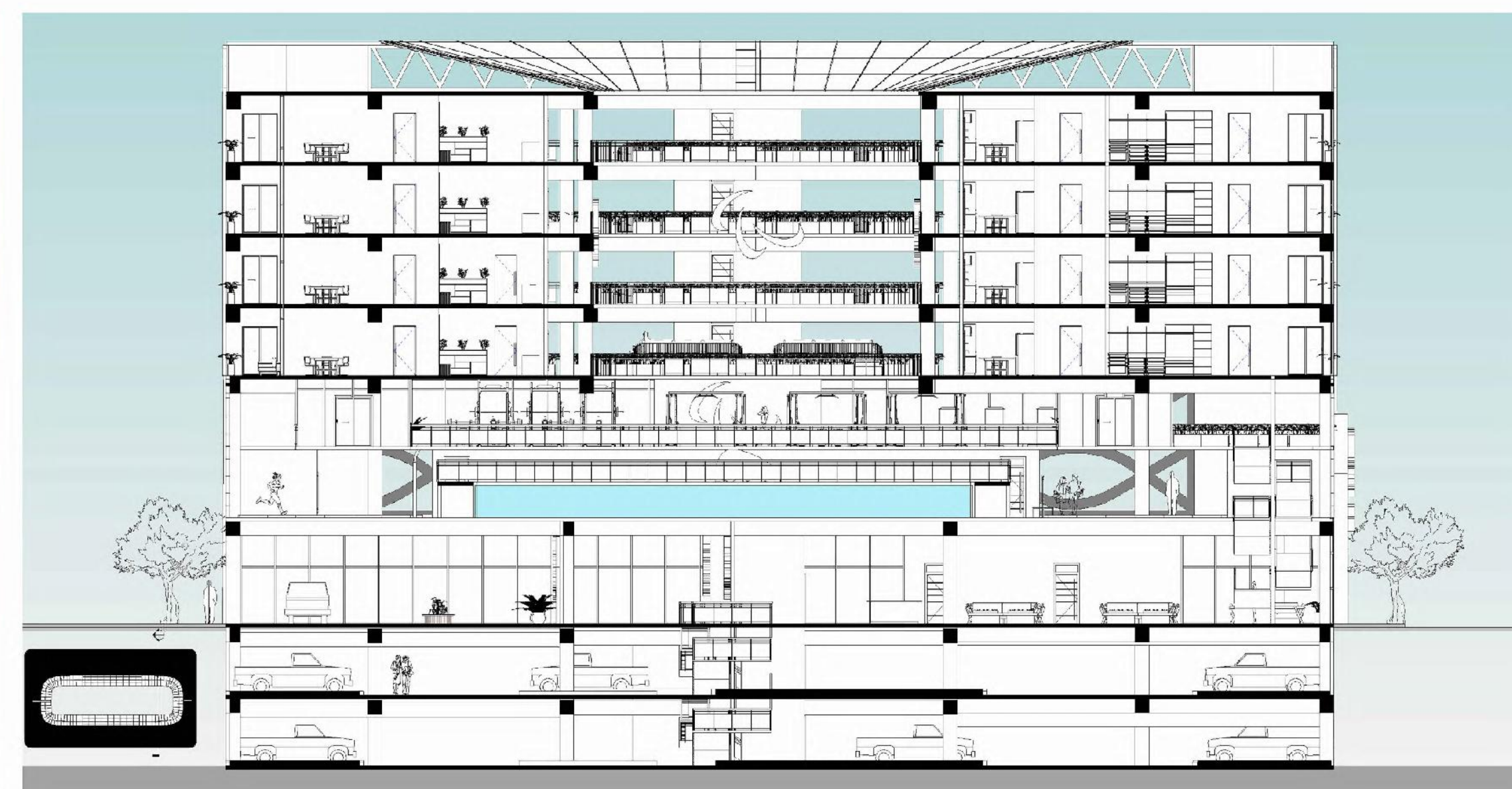
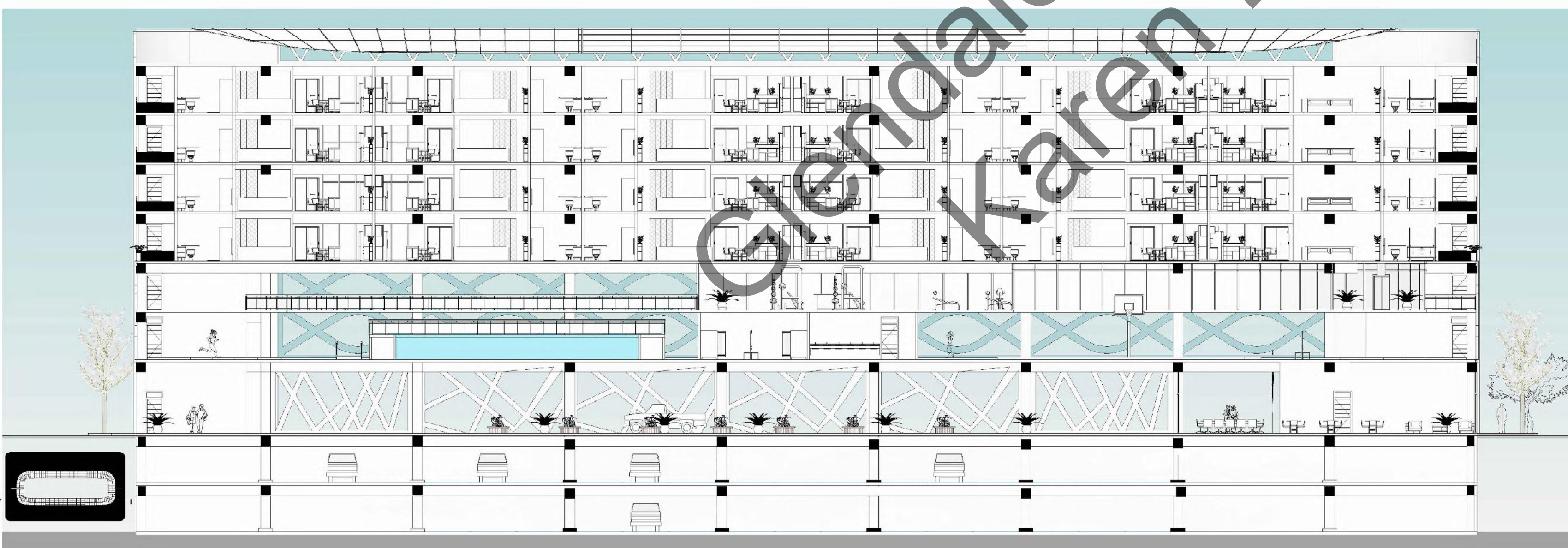
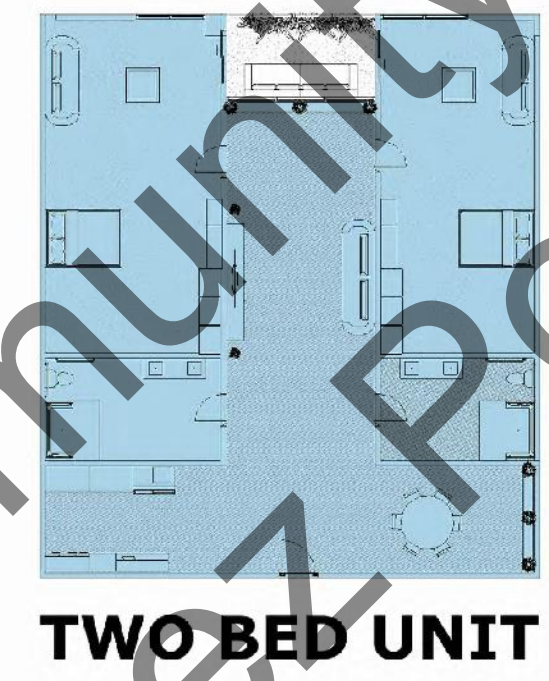
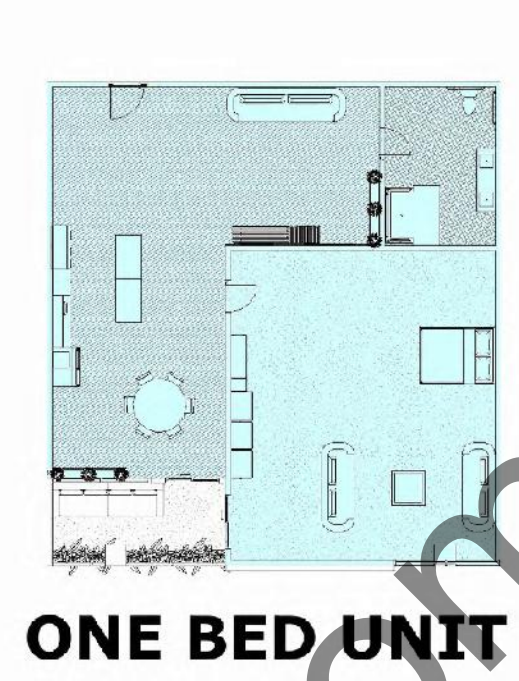
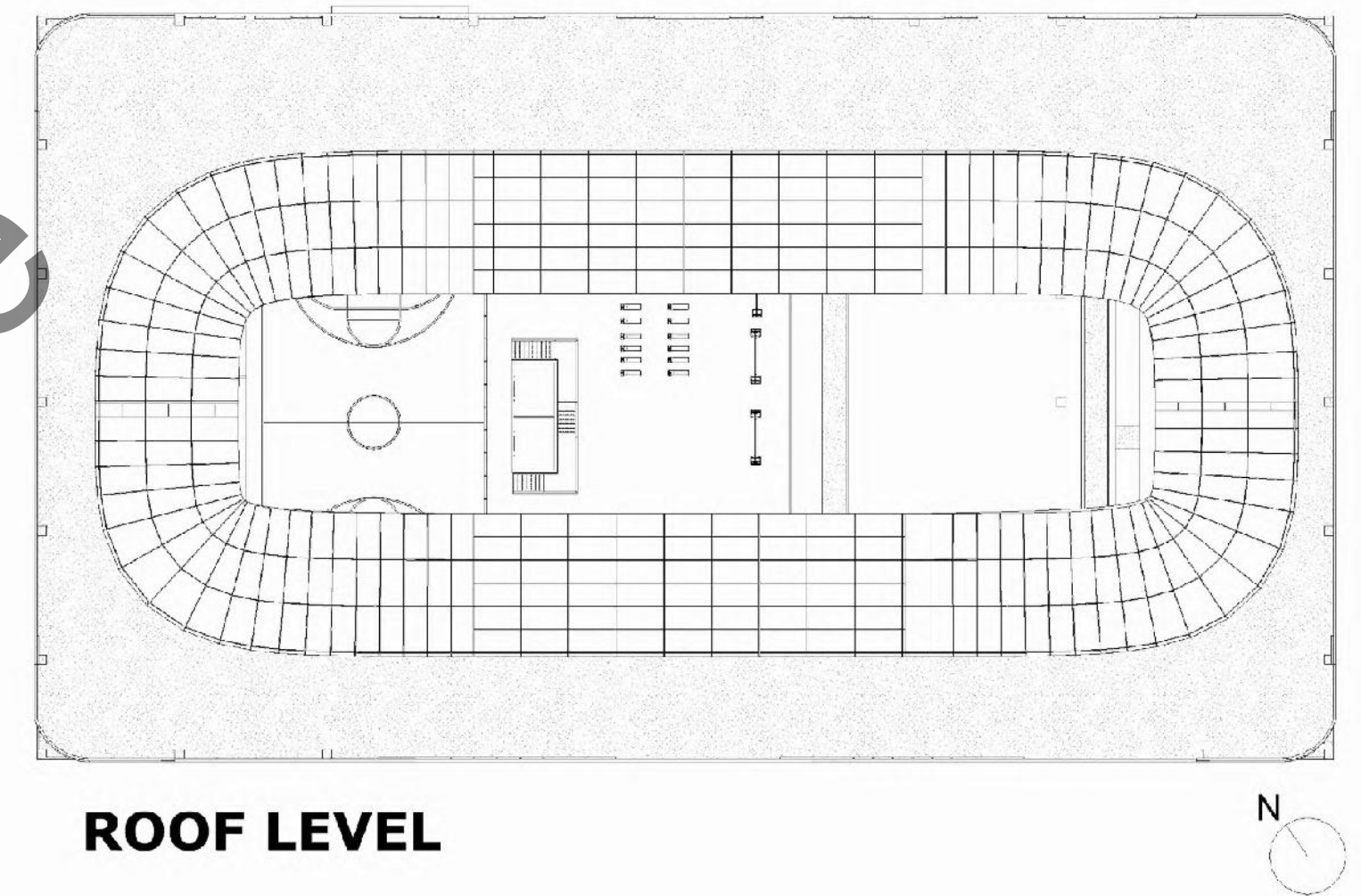
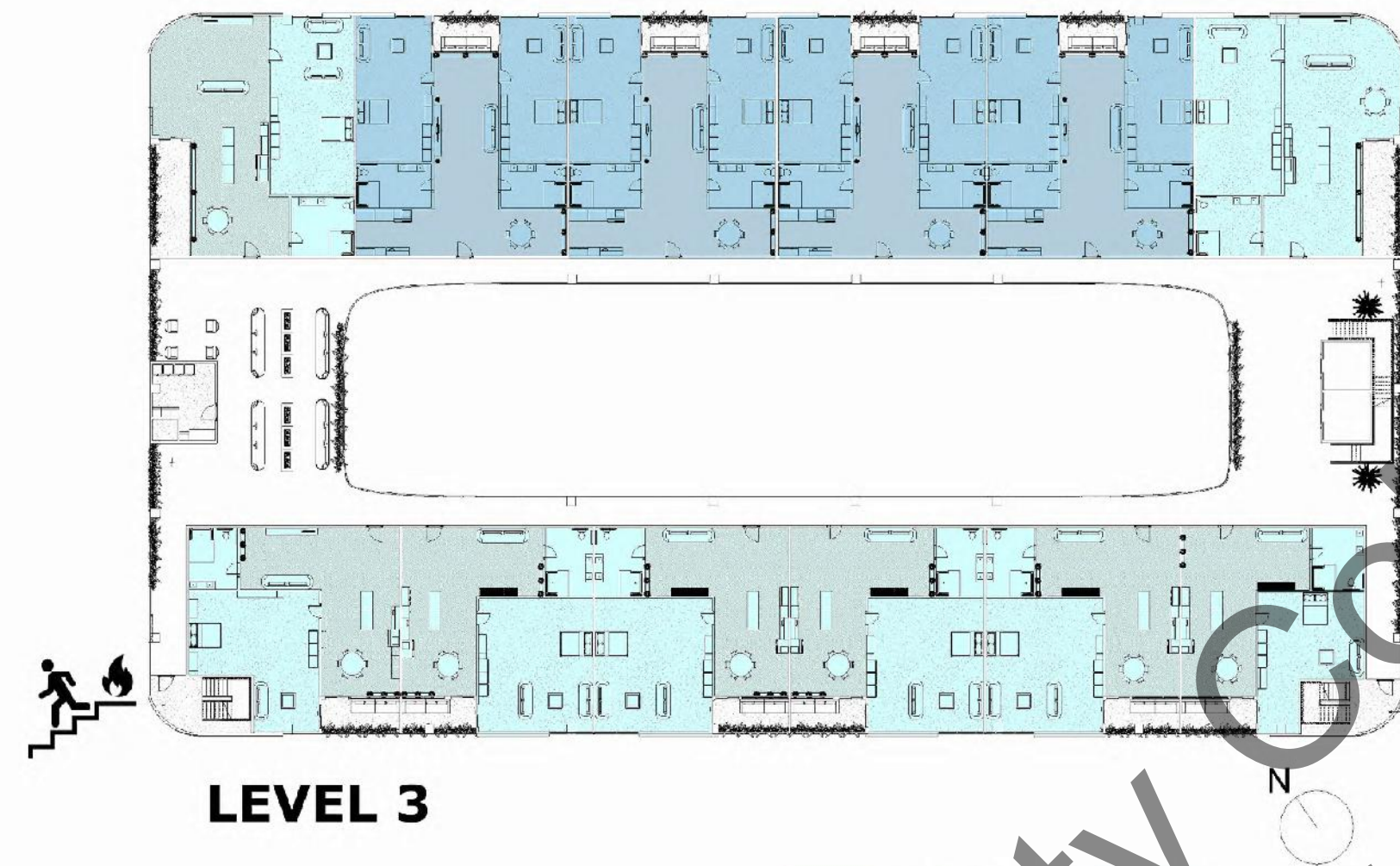
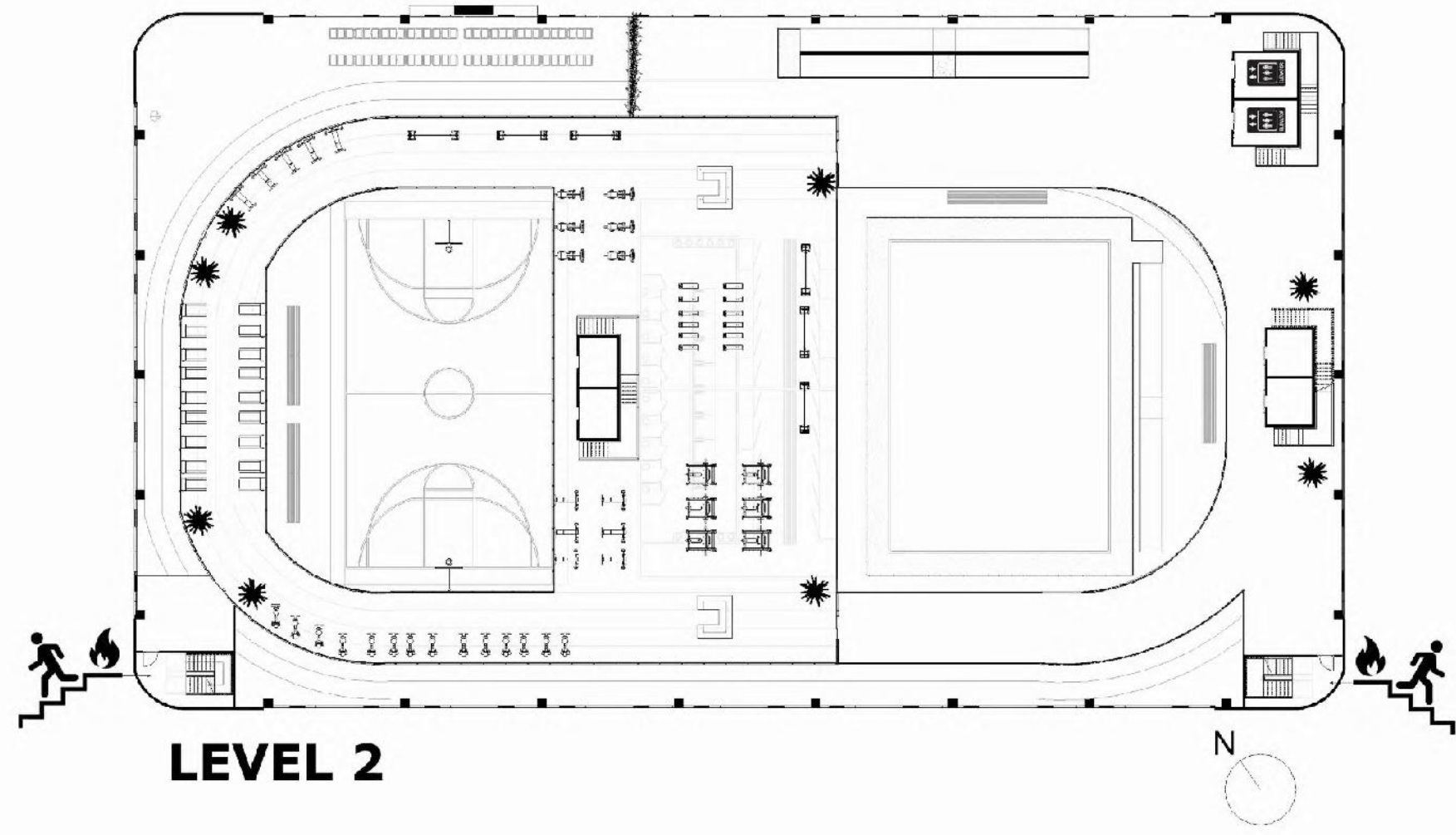
CIRCULATION DIAGRAM



STRUCTURAL DIAGRAM



NORTH ELEVATION



THANK YOU !

