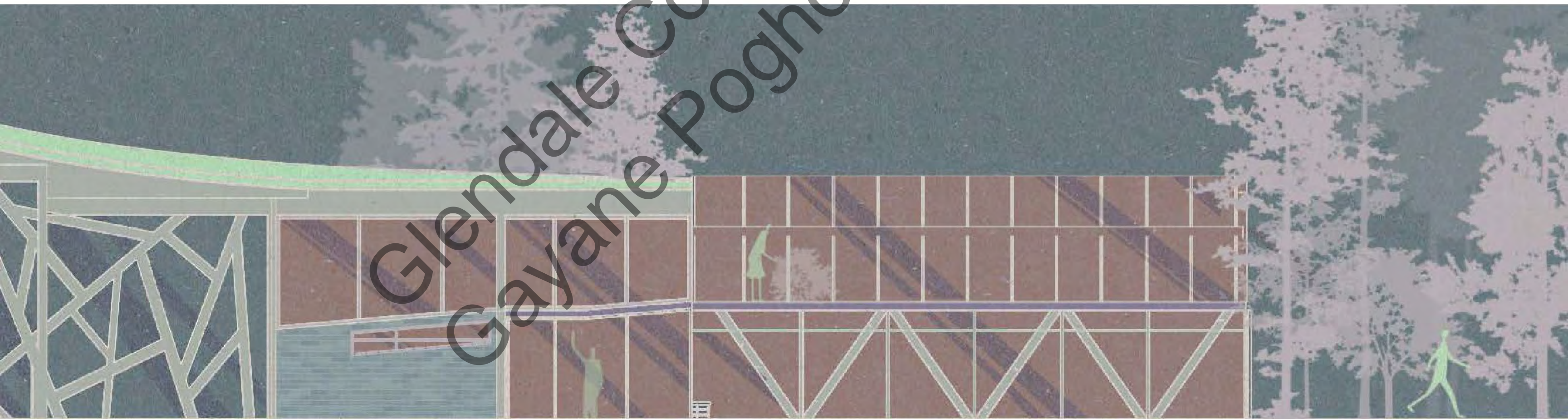




ARCHITECTURE PORTFOLIO.

Gayane Poghosyan

2025



CONTENTS.

01 One-Story Ranch House

Villa Savoye - Case Study Project

10 House for a Paralympic Athlete

14 Residential-Training Complex for Paralympians

18 Perspective Graphics

22 3D Vizualization

24 Photography & Skecthes

26 AutoCAD Draftings

SKILLS.

AutoDesk:

- Revit
- AutoCAD
- 3ds Max

Adobe:

- Photoshop
- InDesign
- Lightroom

Other:

- SketchUp
- Twinmotion
- Rhino

EDUCATION.

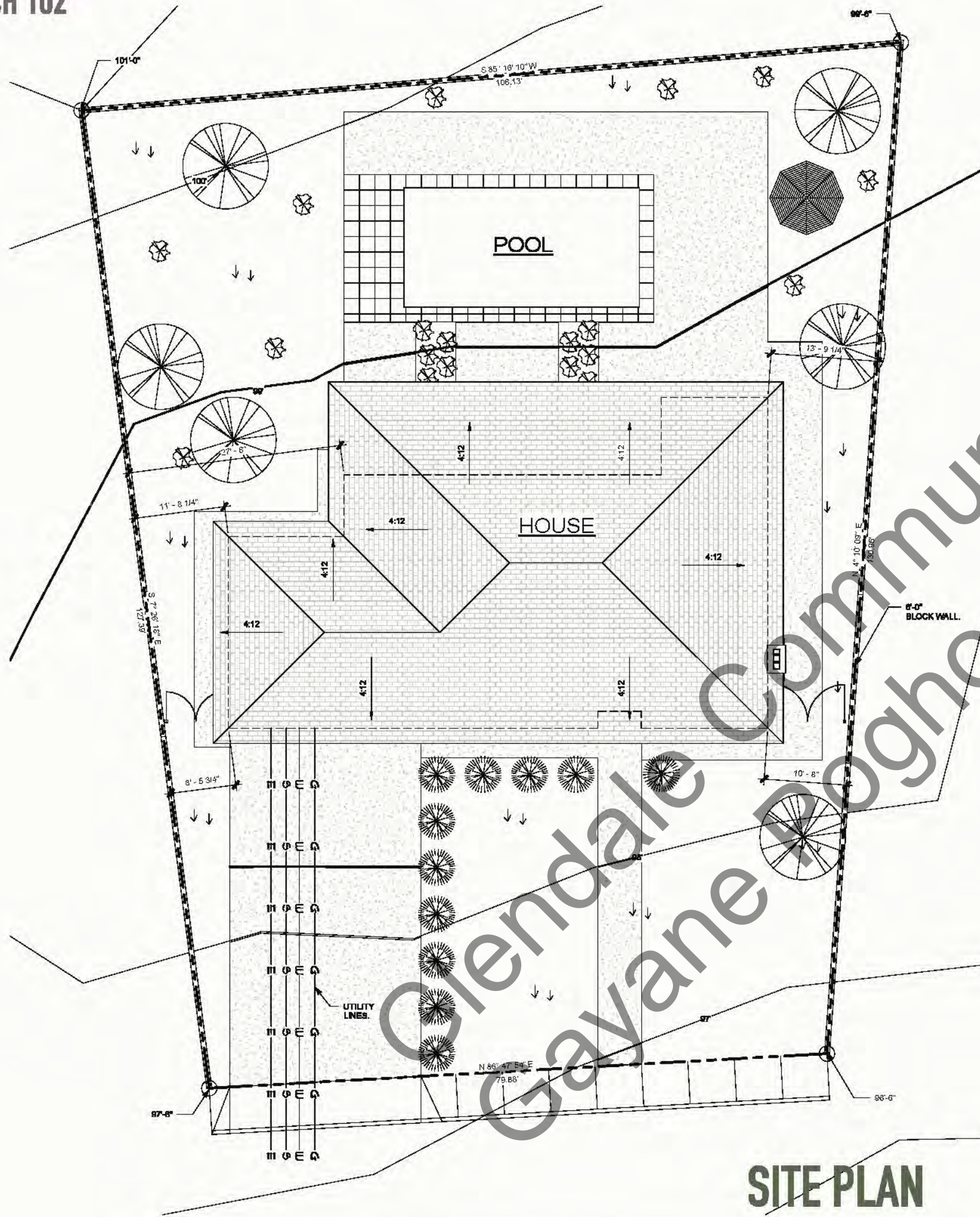
- **Shirakatsy Lyceum International Scientific Complex**
2018-2022
- **Burbank High School - High School Diploma**
2022-2023
- **Glendale Community College - Architecture Transfer Program**
2023-Current

ARCH 102

Architectural Drafting & Design
Summer 2024

The goal of the project was to design a single family house with an emphasis on the ranch-style design. Ensuring the separation of private areas - the bedrooms, the office, and family room from public areas - living-room, kitchen and dining room was a key element of the project.





SITE PLAN

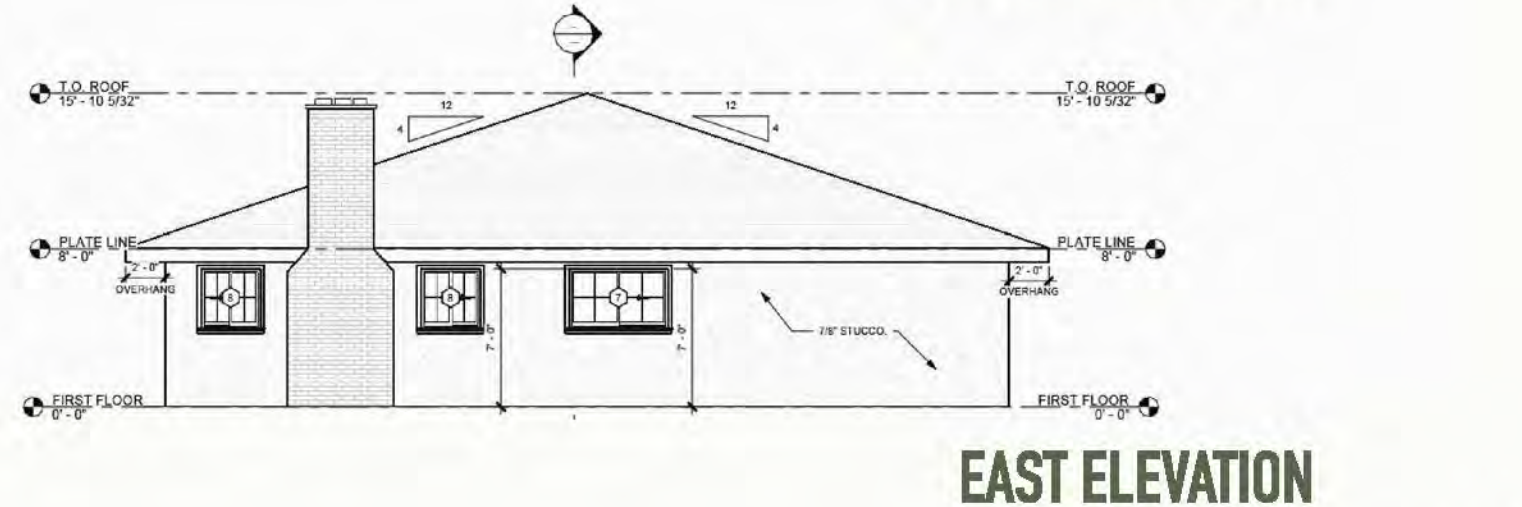
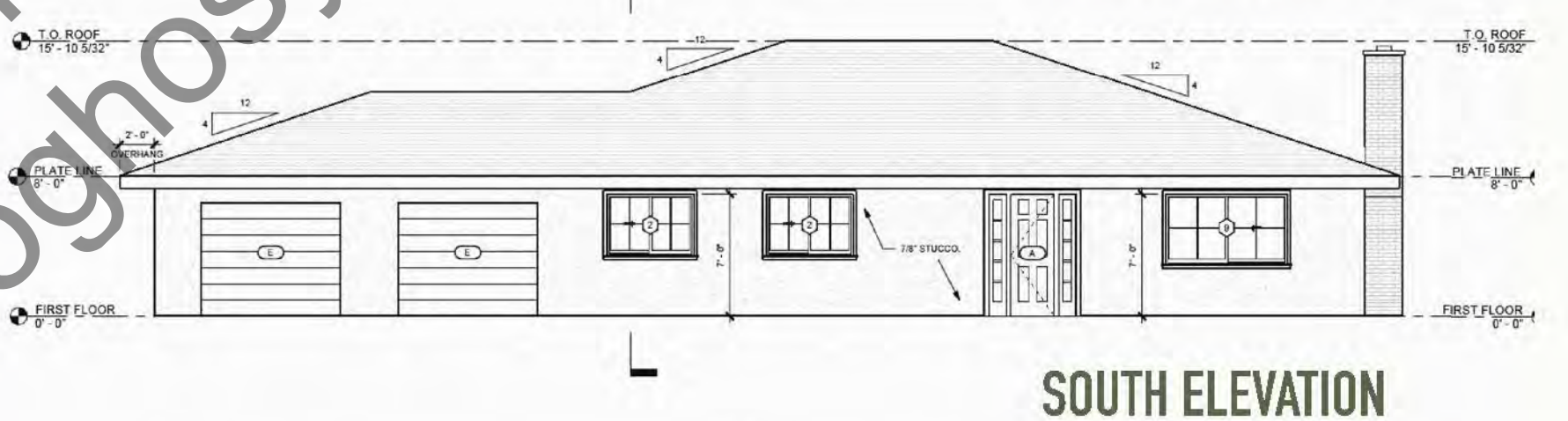
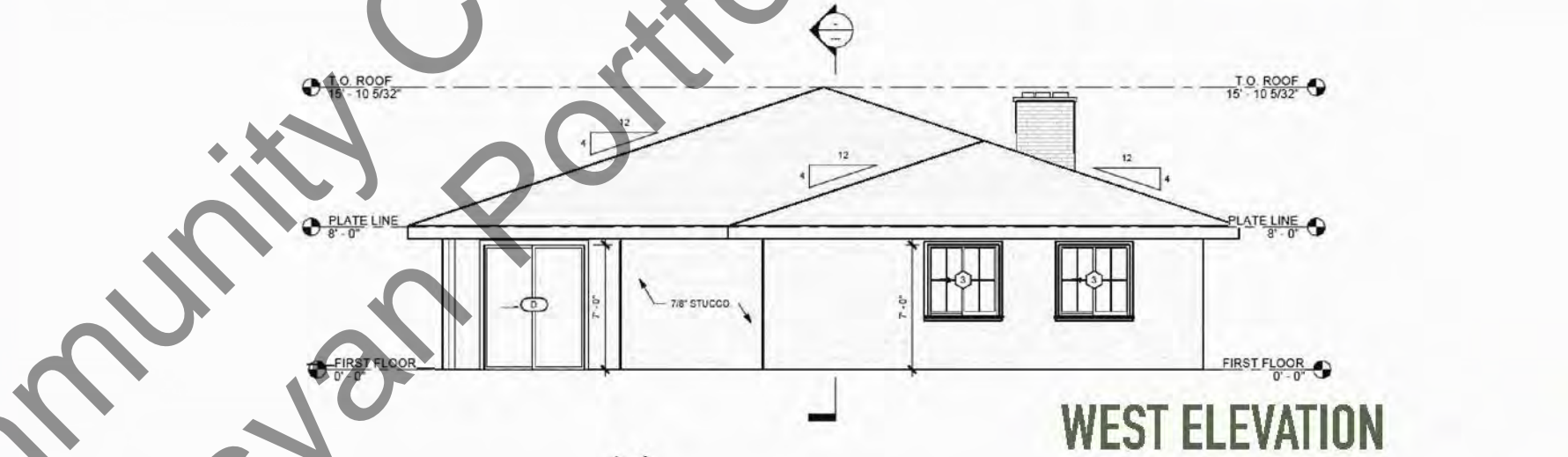
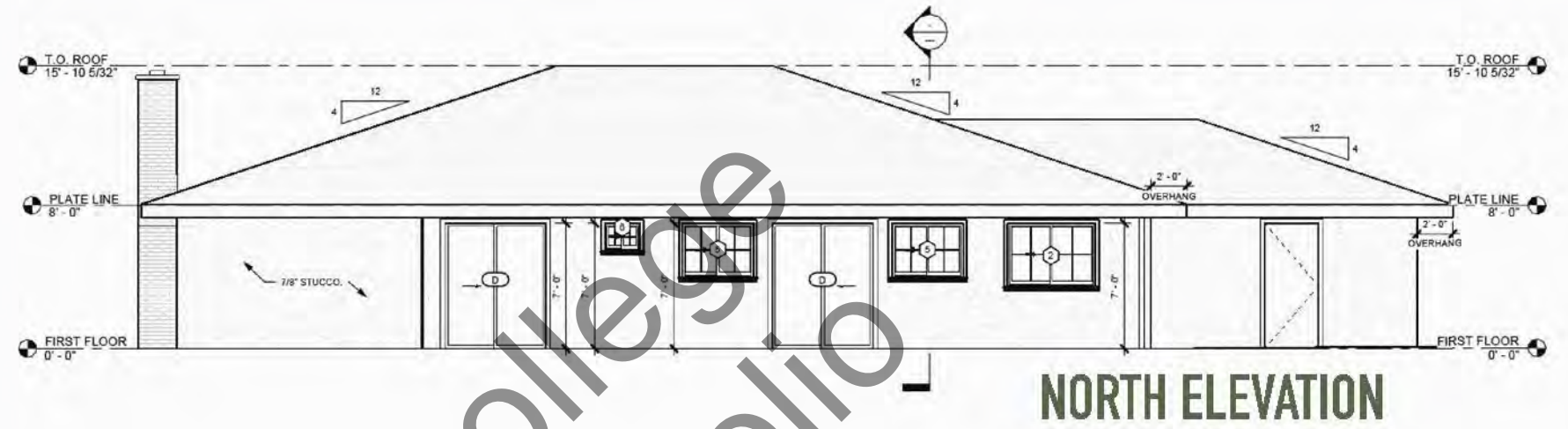
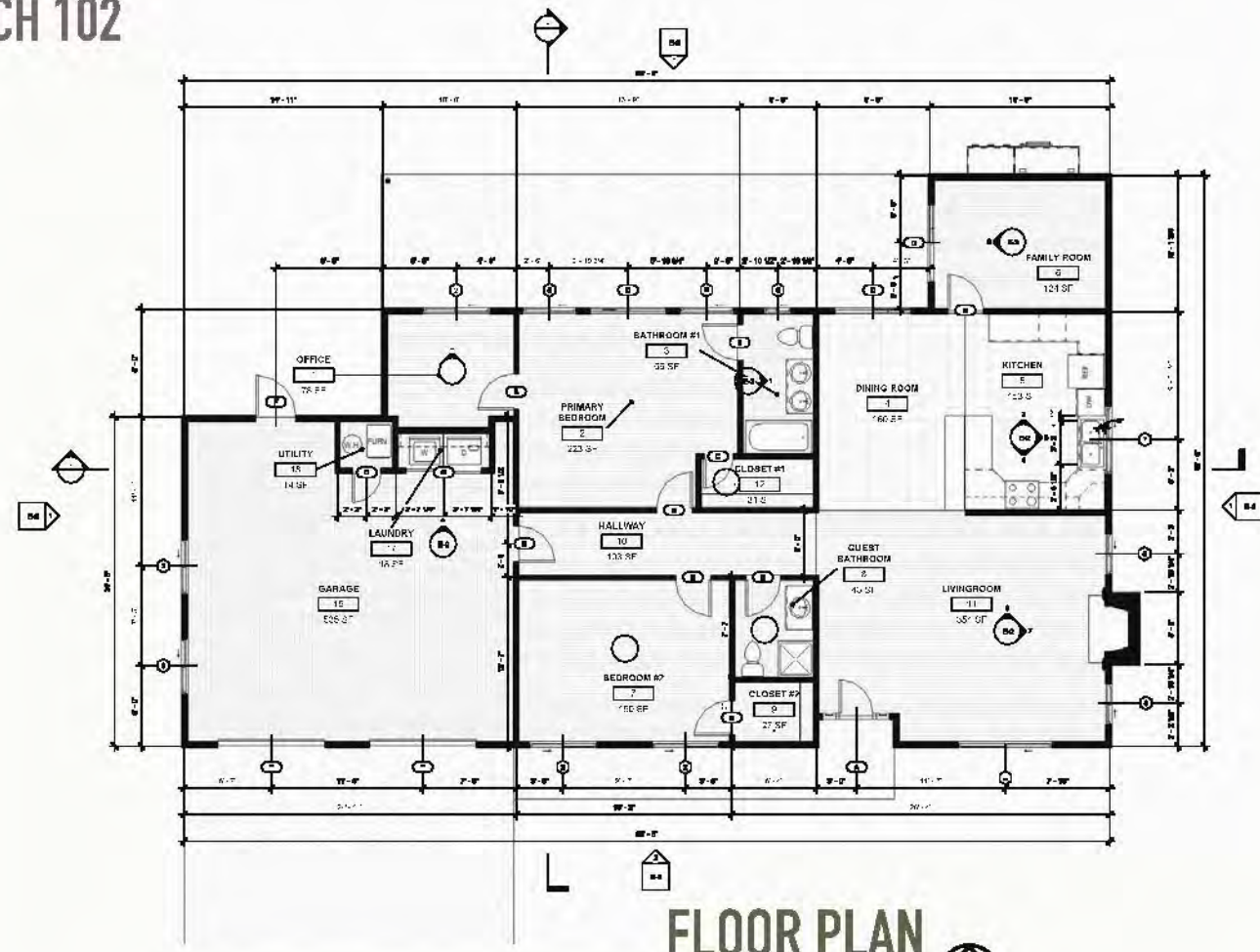
GENERAL NOTES:

1. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ANY DISCREPANCIES SHALL BE REPORTED TO ARCHITECT. VERIFY ALL EXISTING FIELD CONDITIONS. ANY ADVERSE SITUATIONS SHALL BE REPORTED TO ARCHITECT.
2. ALL FOOTINGS SHALL BE FOUNDED IN NATURAL, UNDISTURBED SOIL.
3. ALL CONCENTRATED DRAINAGE AND ROOF WATER SHALL BE CONDUCTED TO THE STREET IN AN APPROVED DEVICE.
4. ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED OR FOUNDATION GRADE REDWOOD.
5. ANCHOR BOLTS - 1/2" X 10" LONG AT 6'-0" (12" MIN FROM ENDS) EMBEDDED 7" IN CONCRETE.
6. ALL FRAMING LUMBER SHALL COMPLY WITH STANDARDS OF THE WEST COAST LUMBER INSPECTION BUREAU, ALL SHALL BE GRADE MARKED:
 - A. SILLS PRESSURE TREATED D. FIR.
 - B. LIGHT FRAMING, JOISTS: DOUGLAS FIR NO. 2.
 - C. BEAMS & POSTS: DOUGLAS FIR NO. 1.
7. NAILING SHALL COMPLY WITH THE BUILDING CODE.
8. ALL FRAMING MEMBERS SHALL BE ARRANGED AND SPACED TO PERMIT THE PLACEMENT OF DUCTS, PIPES, CONDUITS, ETC., WITH A MINIMUM OF CUTTING OR NOTCHING. ALL NECESSARY CUTTING OR NOTCHING SHALL BE APPROVED BY THE BUILDING INSPECTOR.
9. PROVIDE 3/4" STR. I PLYWOOD SHEATHING AT CORNERS AND EVERY 25 LINEAL FEET OF WALL.
10. ALL HEADERS AND BEAMS SHALL HAVE A MINIMUM BEARING SURFACE OF 1 1/2".
11. ALL STUD WALLS SHALL BE BLOCKED AT MID HEIGHT OF WALL. 2X SOLID BLOCKING SHALL BE PLACED BETWEEN ALL JOISTS AND RAFTERS, AND ALL SUPPORTS.
12. PROVIDE 15 POUND FELT UNDER ALL EXTERIOR FINISHES.

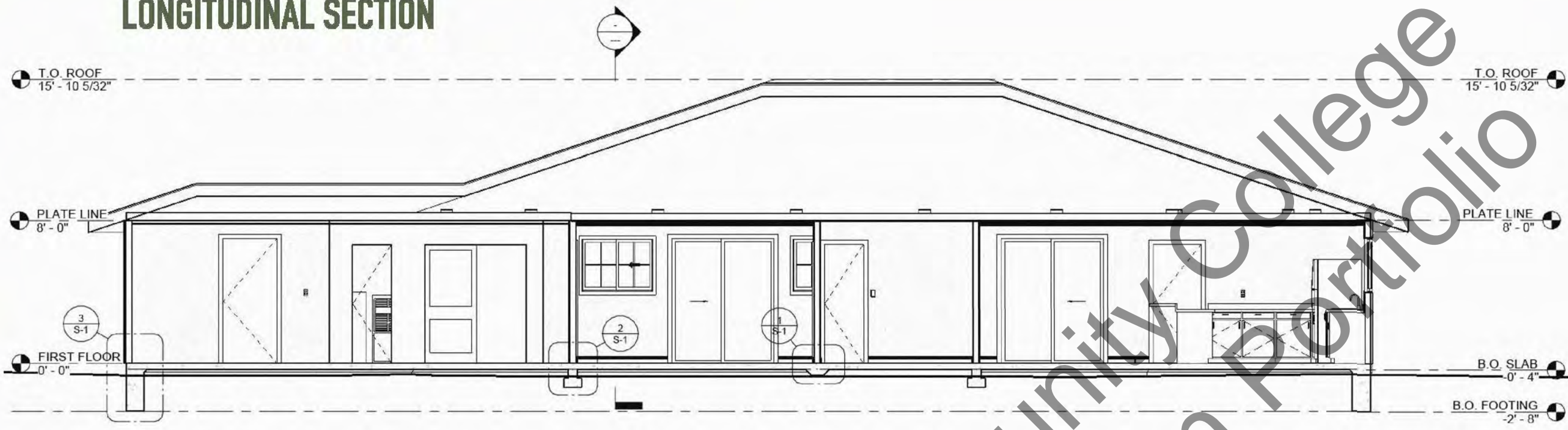
LEGEND:

GAS LINE	—G—
ELECTRICAL LINE	—E—
WATER LINE	—W—
SEWER LINE	—S—
GRASS	↓ ↓ ↓ ↓
CONCRETE	▒

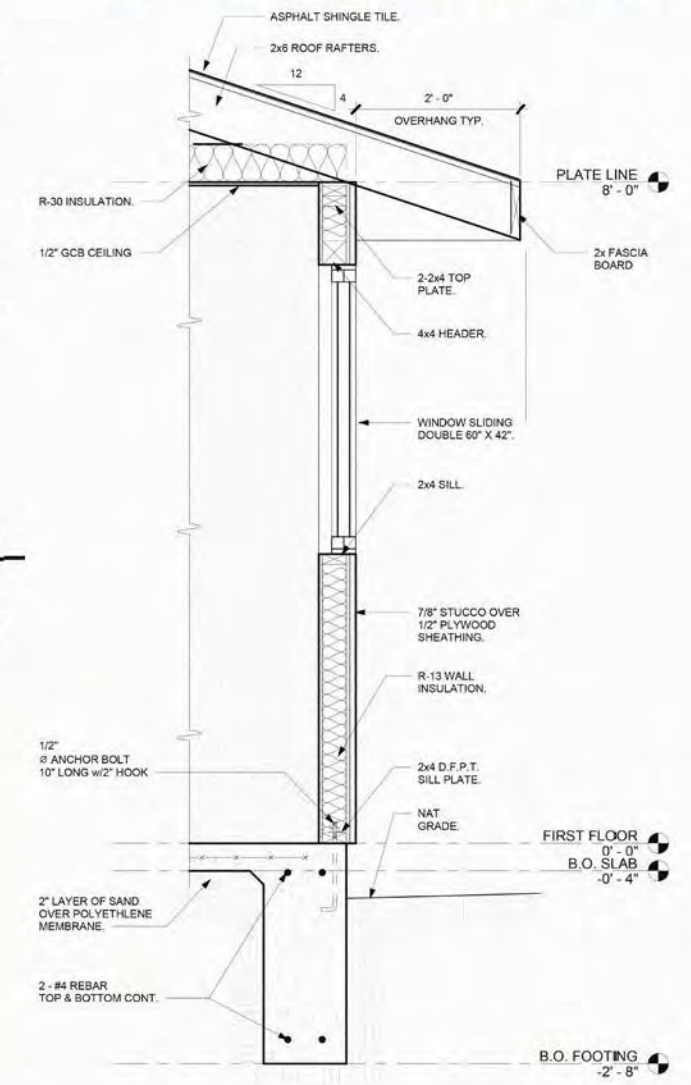




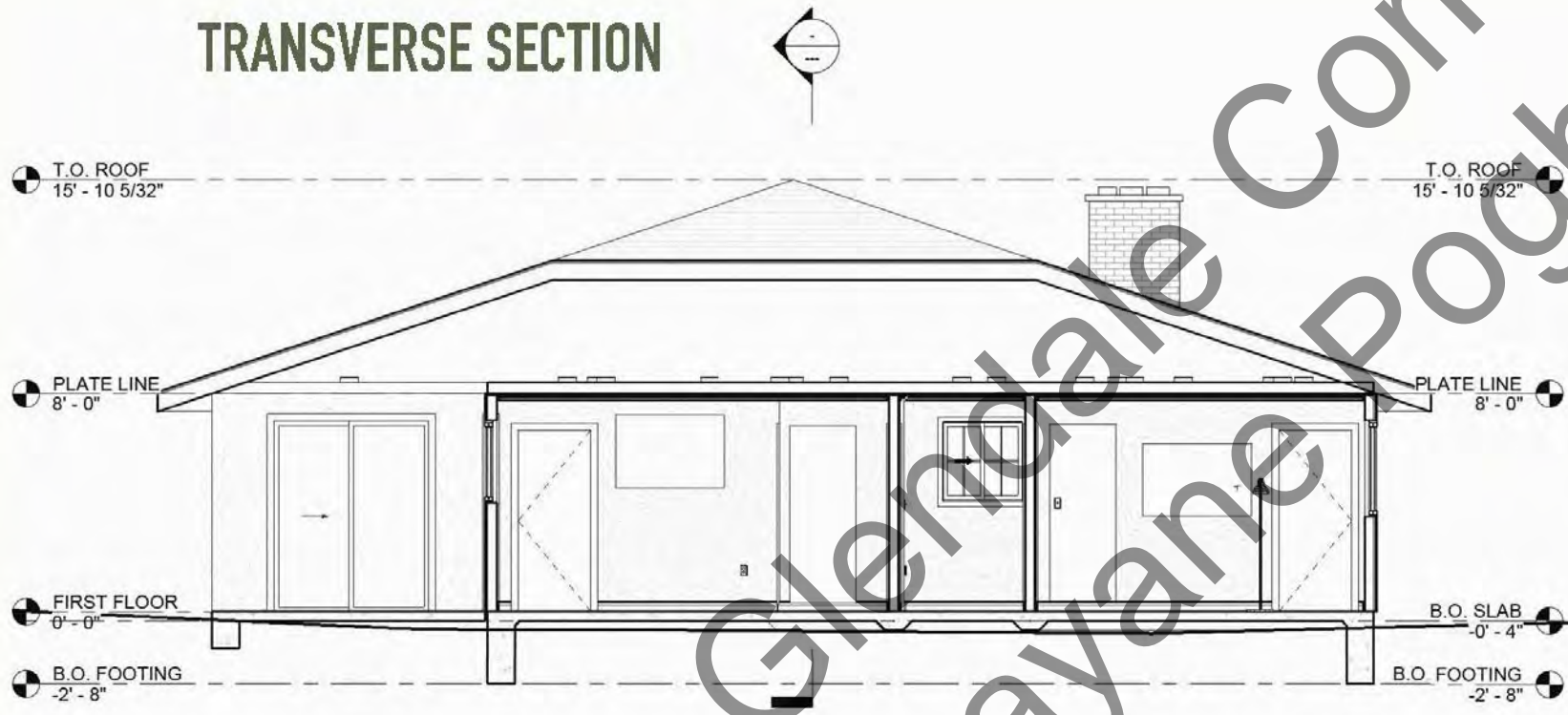
LONGITUDINAL SECTION



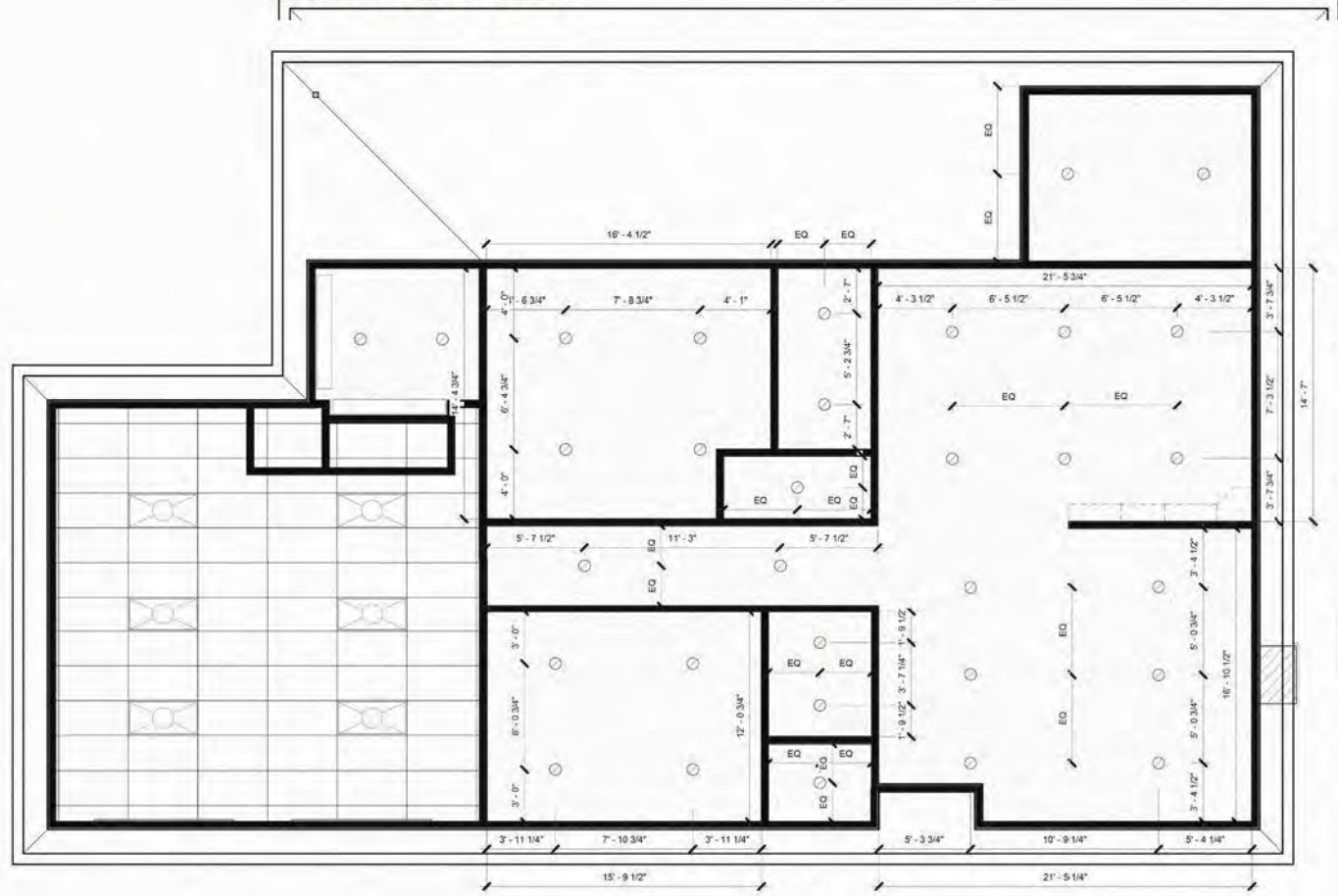
EXTERIOR WALL SECTION



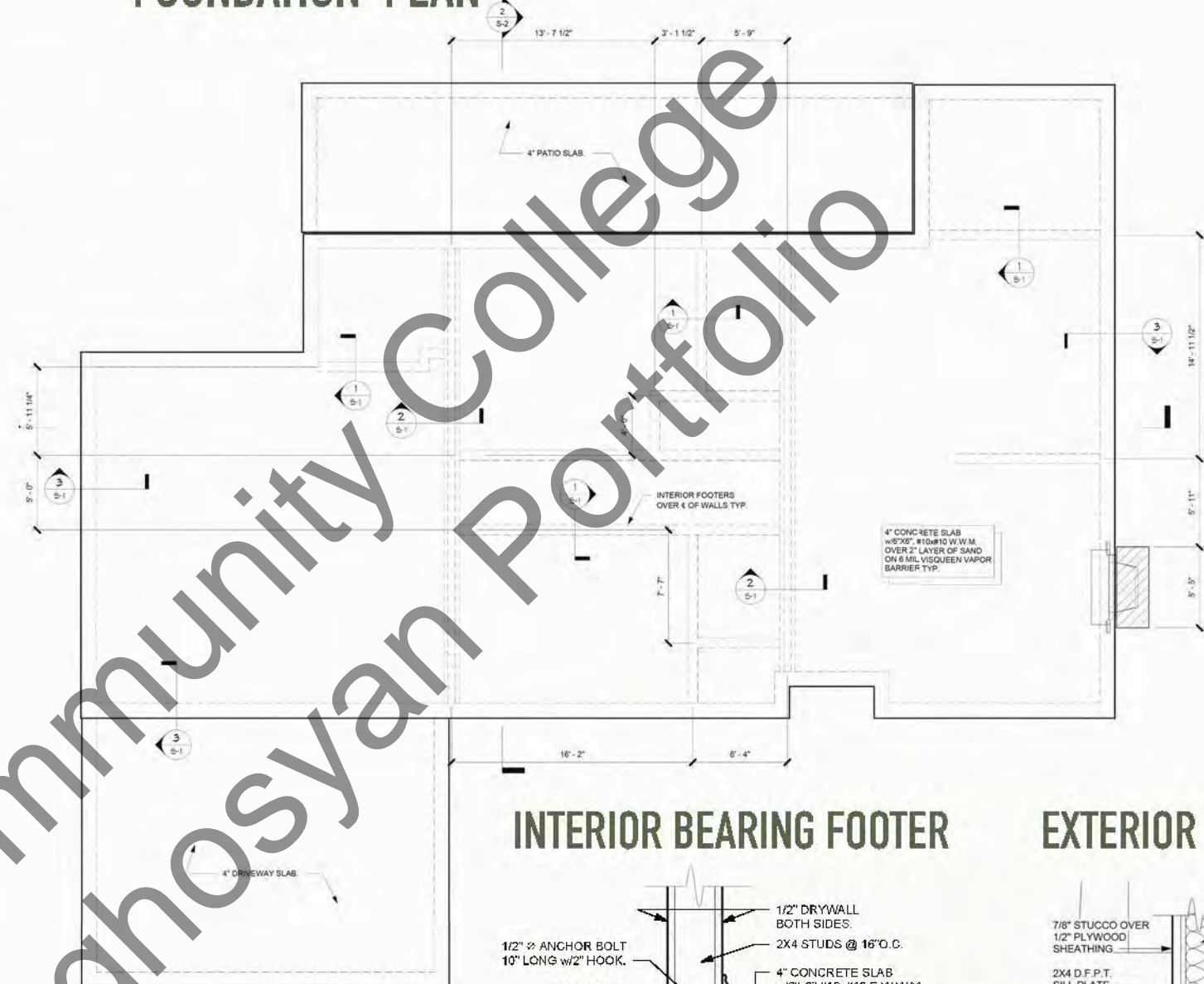
TRANSVERSE SECTION



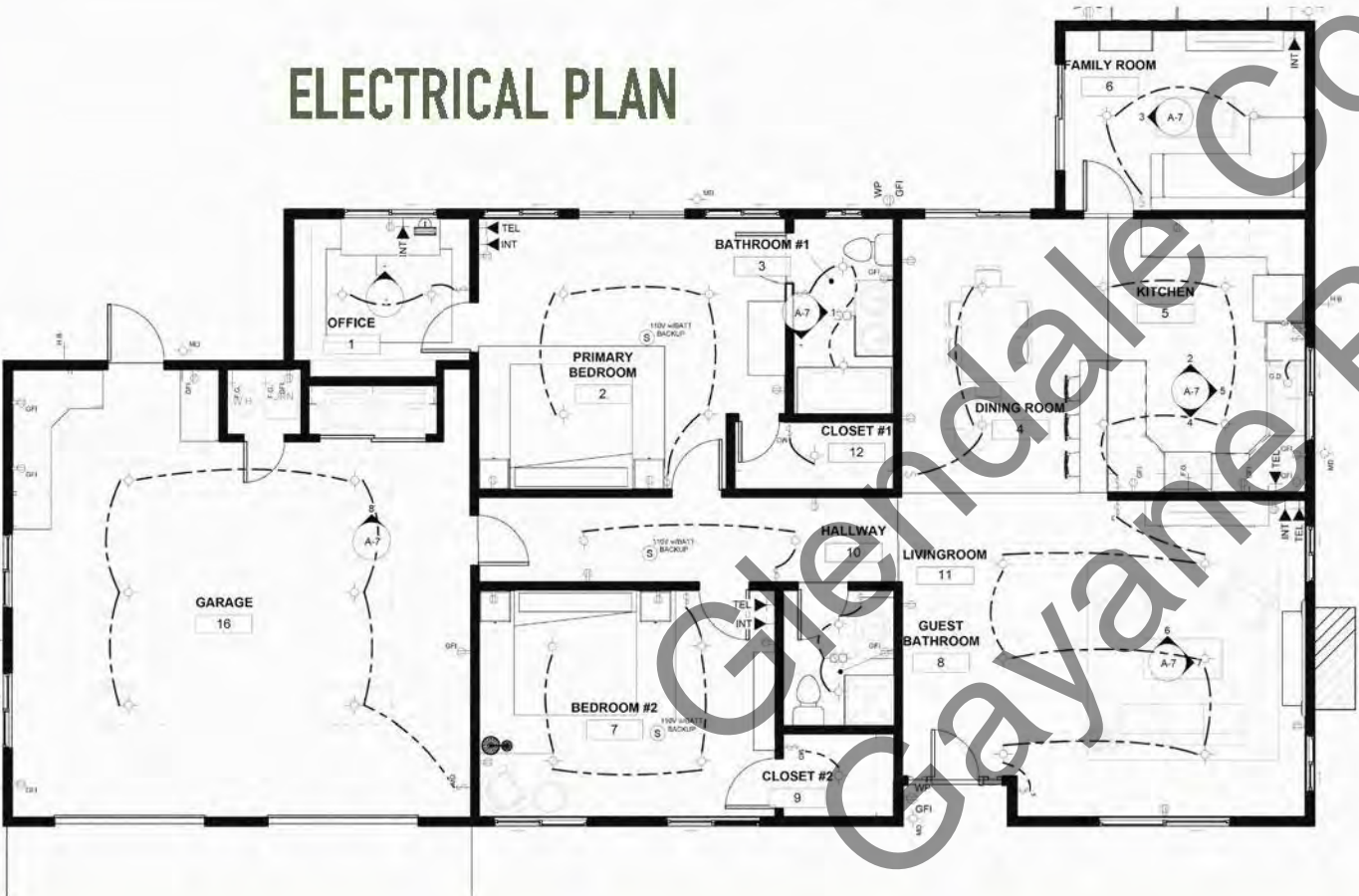
CEILING PLAN



FOUNDATION PLAN



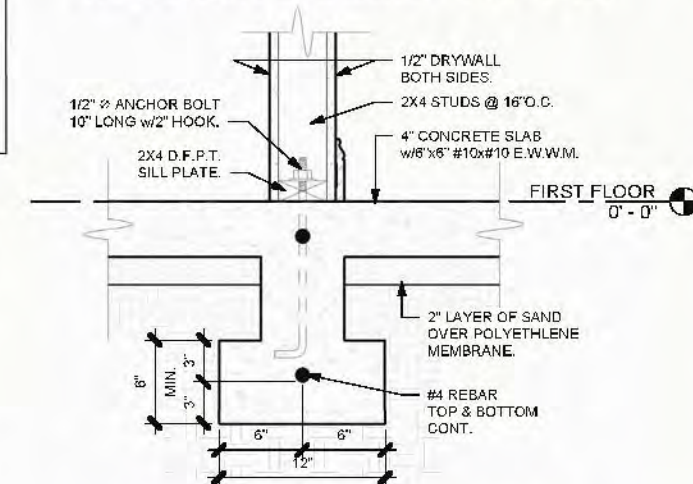
ELECTRICAL PLAN



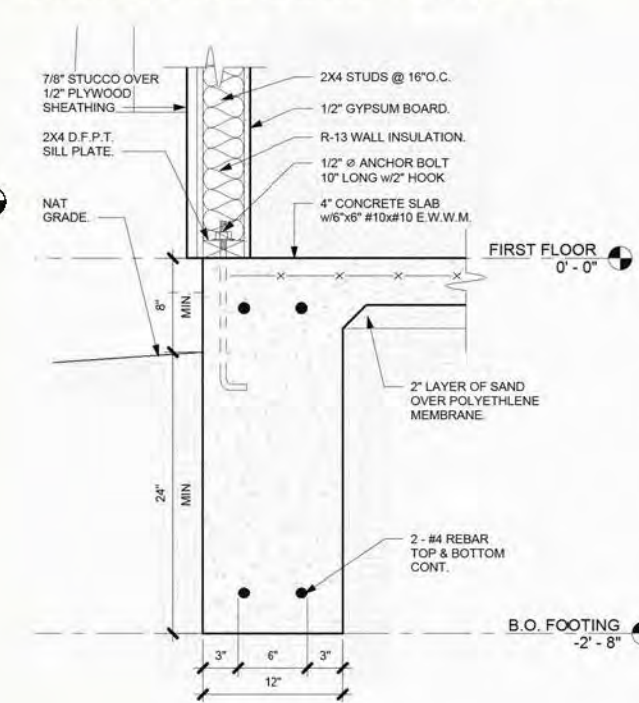
ELECTRICAL / FIXTURE SYMBOL LEGEND

	CEILING LIGHT FIXTURE
	COMBINATION SMOKE & CARBON MONOXIDE DETECTOR
	EXHAUST FAN w/LIGHT
	FUEL GAS
	HOSE BIBB
	CONVENIENCE OUTLET
	CONVENIENCE OUTLET - GROUND FAULT INTERRUPTER
	CONVENIENCE OUTLET - WATERPROOF/GFI
	SWITCH - SINGLE POLE
	SWITCH - THREE WAY
	SWITCH - MOTION DETECTOR
	WALL FIXTURE - MOTION DETECTOR
	TELEPHONE

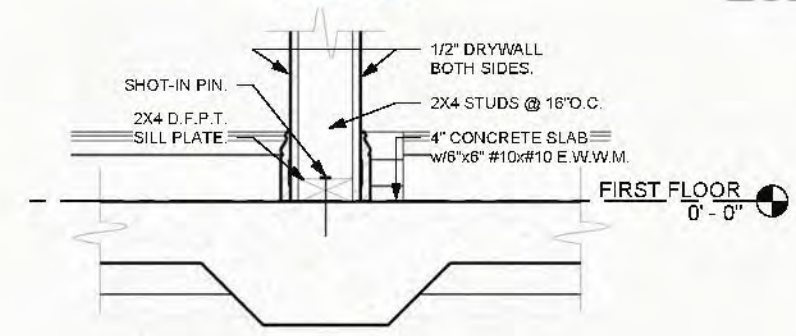
INTERIOR BEARING FOOTER



EXTERIOR BEARING FOOTER



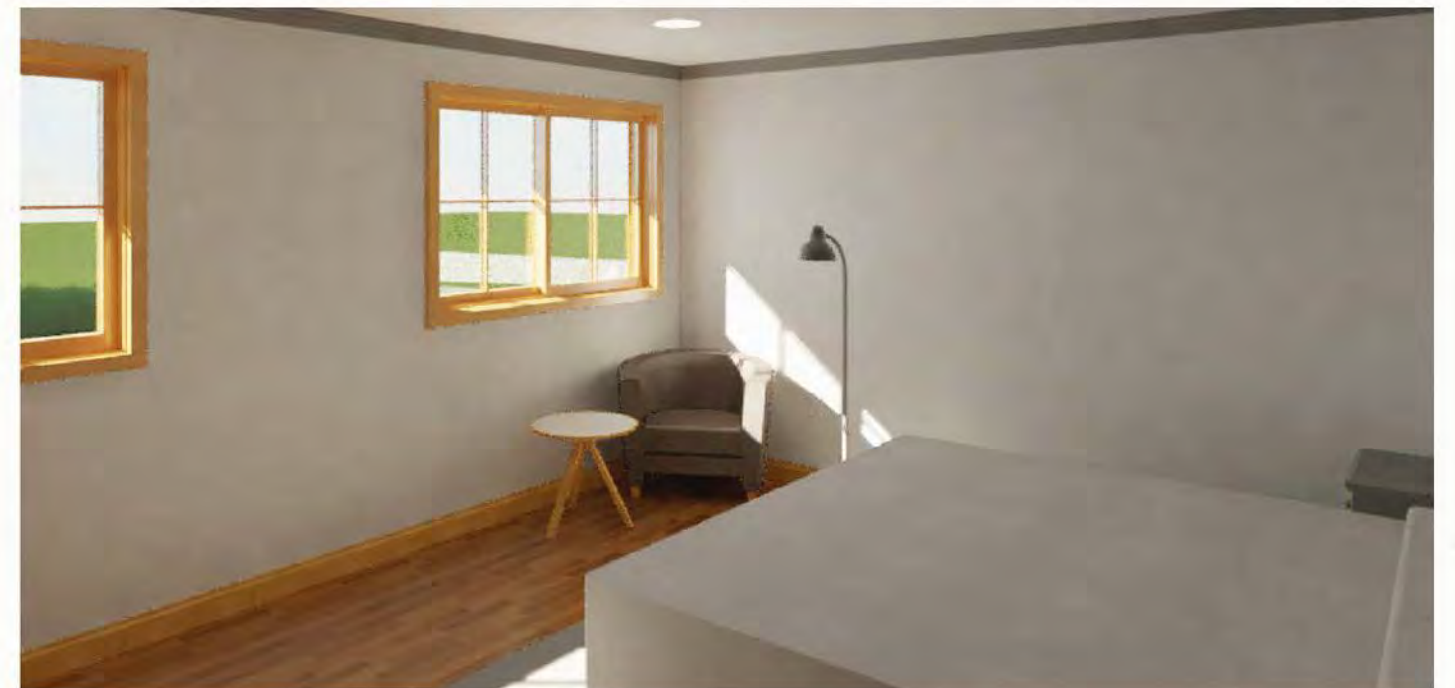
INTERIOR NON-BEARING FOOTER



FURNITURE PLAN



FURNITURE SCHEDULE	
MARK	DESCRIPTION
1	SOFA
2	COFFEE TABLE
3	ARMCHAIR
4	DRAWER CHEST
5	TV
6	BAR STOOL
7	DINING TABLE W./ CHAIRS
9	SOFA, SECTIONAL
10	BOOK SHELVING
11	SIDEBOARD
12	CHAIR, PATIO
13	SODA, PATIO
14	DRESSER
15	BED, KING
16	NIGHTSTAND
17	OFFICE DESK
18	BOOK SHELVING
19	ARMCHAIR, CRESCENT
20	TABLE, ROUND



ARCH 120

Residential Architectural Design I
Fall 2024

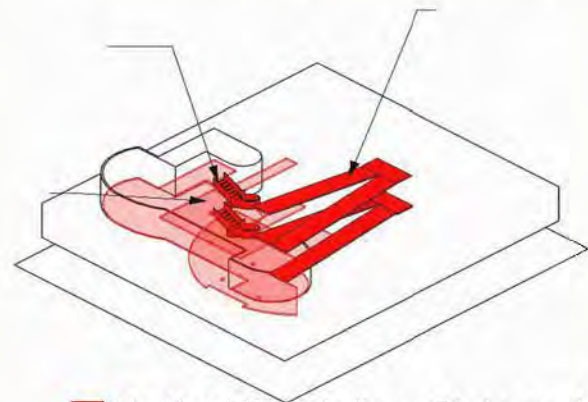


CASE STUDY - VILLA SAVOYE

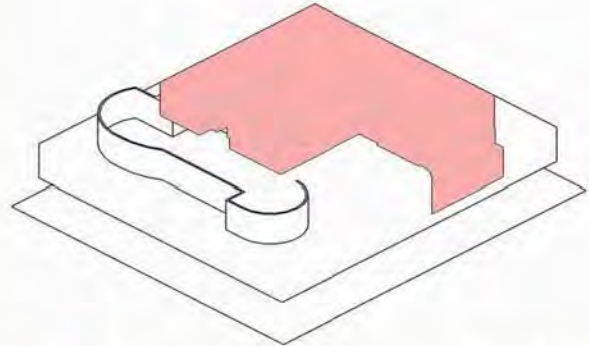
We were assigned to study Villa Savoye designed by architect Le Corbusier, as the embodiment of his key design principles - five points of architecture. Being the foundation of modern architecture, five points include pilotis, open plan, free facade, ribbon windows and flat roof terrace.



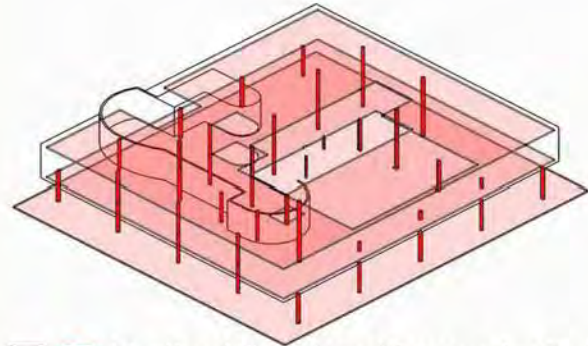
PROGRAM DIAGRAMS



■ Vertical Circulation - Stairs and Ramp
 ■ Horizontal Circulation Per Floor

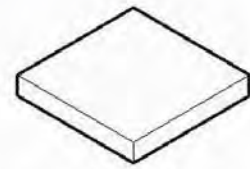


■ Private Area - Bedrooms and Bathrooms
 □ Public Area - Parking, Living Rooms, Kitchen, Gardens

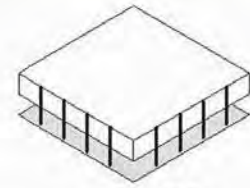


■ Vertical Structural Support - Columns
 ■ Horizontal Structural Support - Beams and Floor Plates

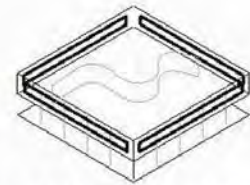
PARTI DIAGRAM
 FIVE POINTS OF ARCHITECTURE



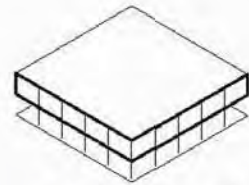
MASS:
 The total weight of the building



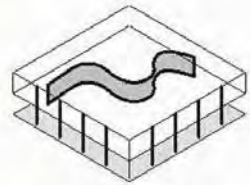
PILOTIS:
 The total weight of the building is supported by columns



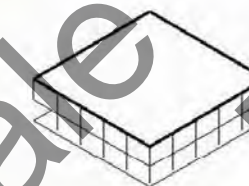
RIBBON WINDOWS:
 Exterior facades are not load bearing - can be continuous windows



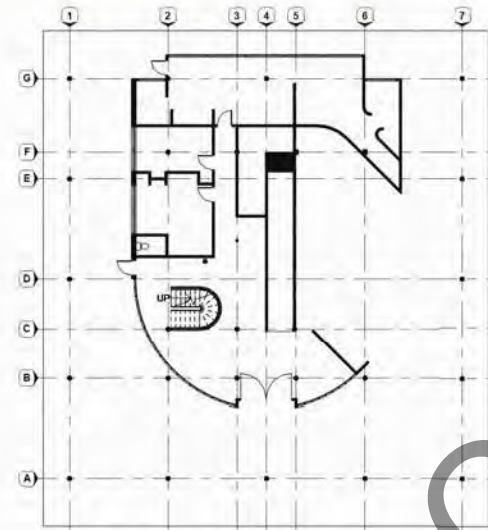
FREE FACADE:
 All exterior facades are not load bearing - it can be any shape



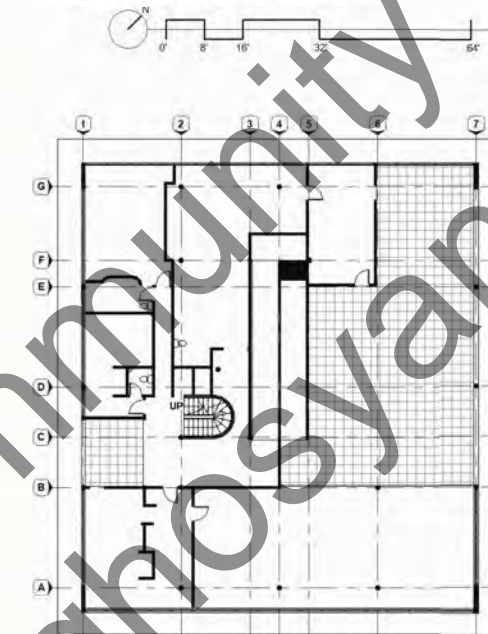
OPEN PLAN:
 Interior walls are not load bearing - they can be free form



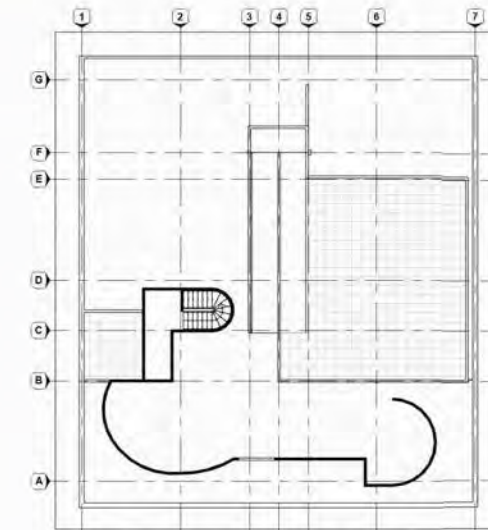
FLAT ROOF TERRACE:
 Rooftop garden



GROUND FLOOR PLAN

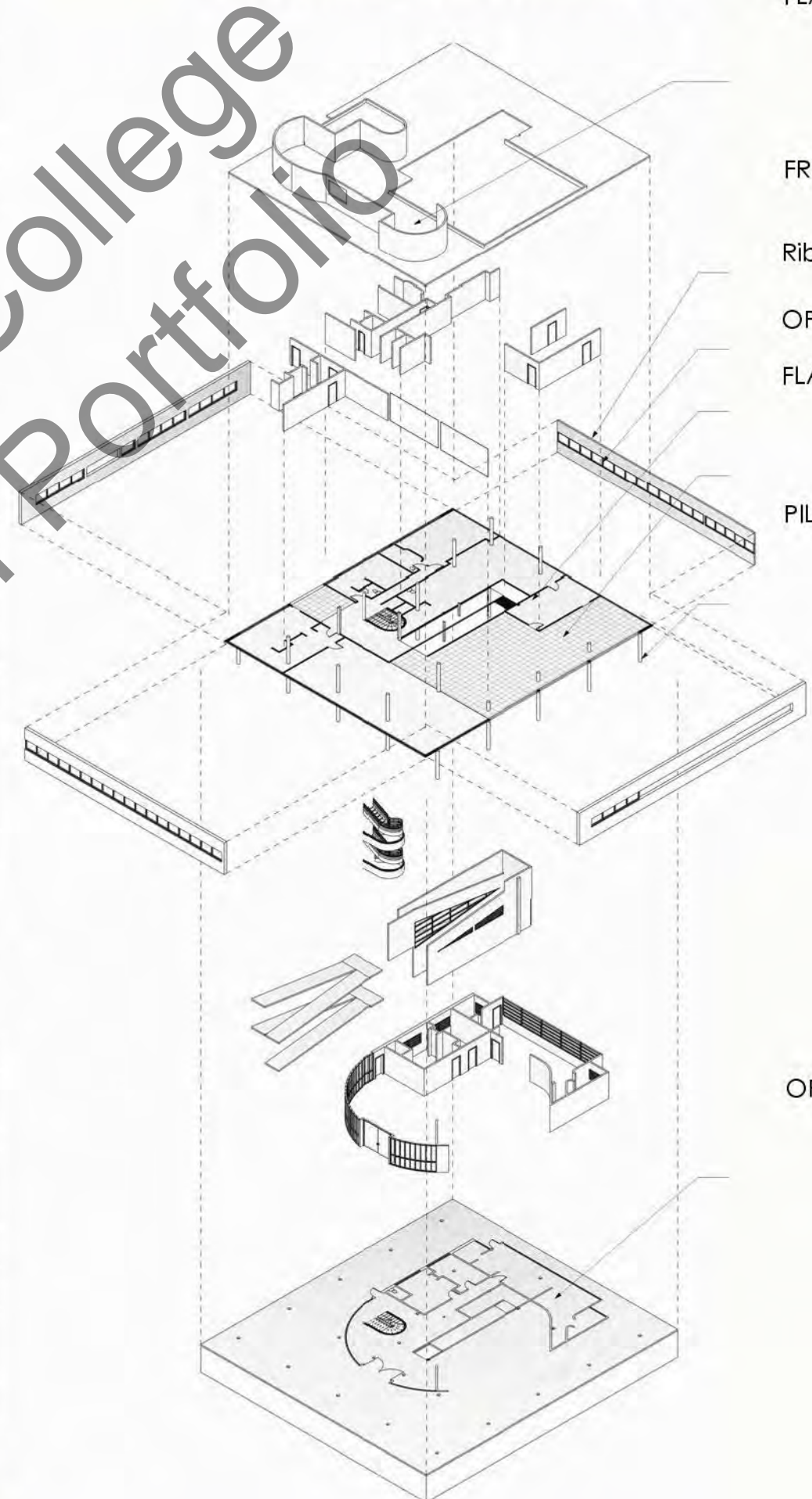


SECOND FLOOR PLAN



ROOF GARDEN PLAN

EXPLODED VIEW DIAGRAM



FLAT ROOF TERRACE

FREE FACADE

Ribbon Windows

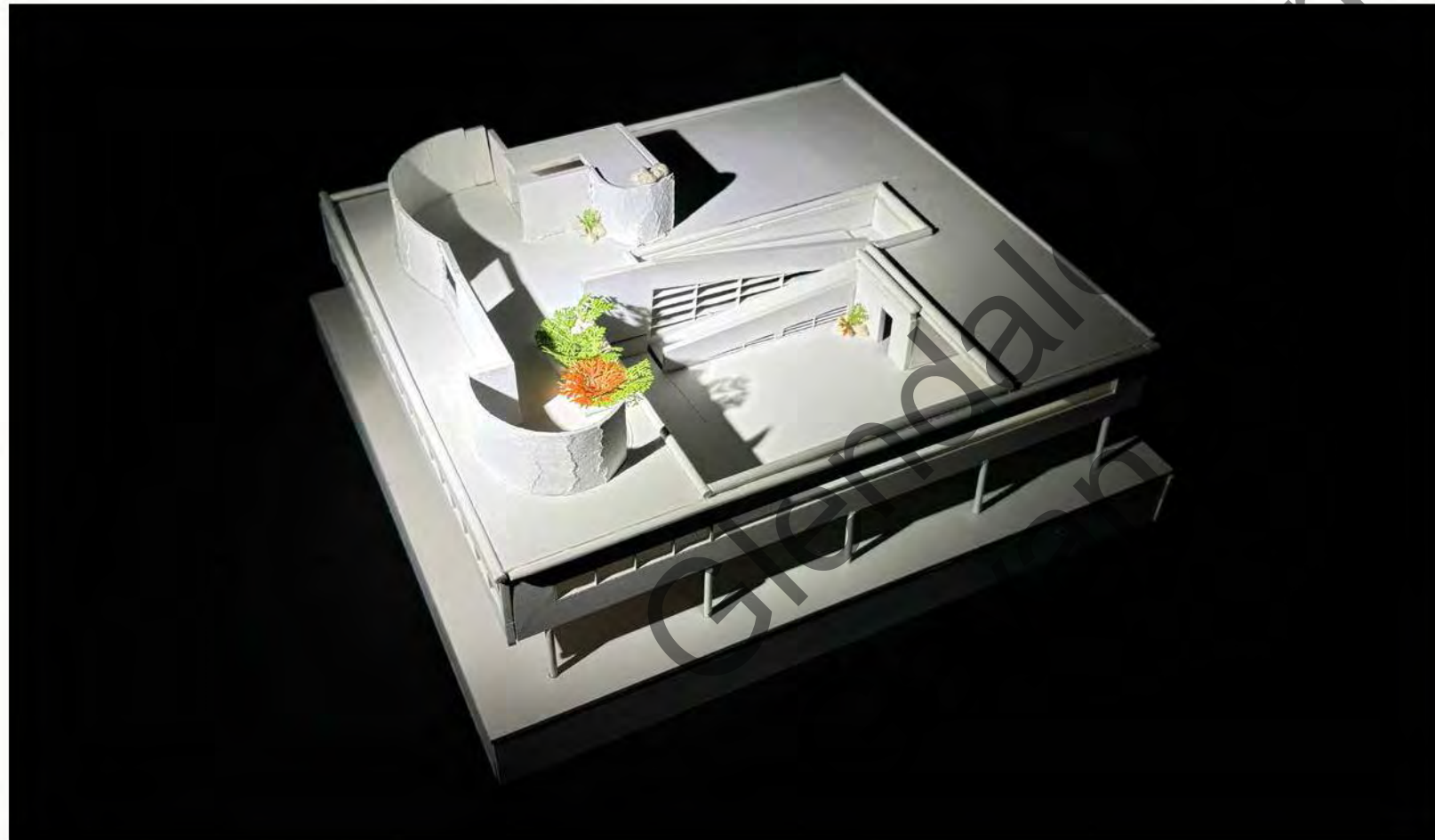
OPEN PLAN

FLAT ROOF TERRACE

PILOTIS

OPEN PLAN

Gleisdale Community College Portfolio



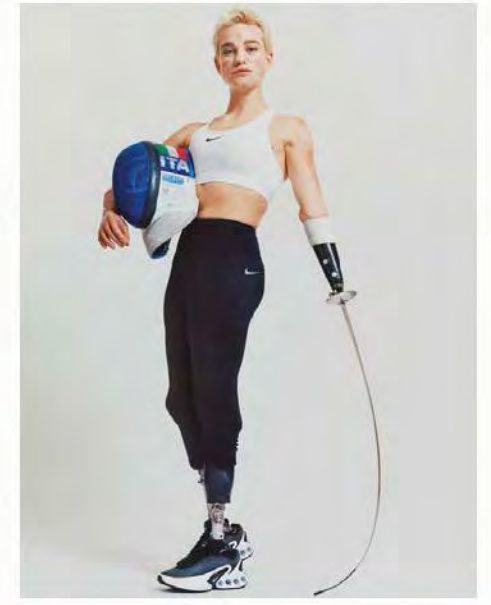
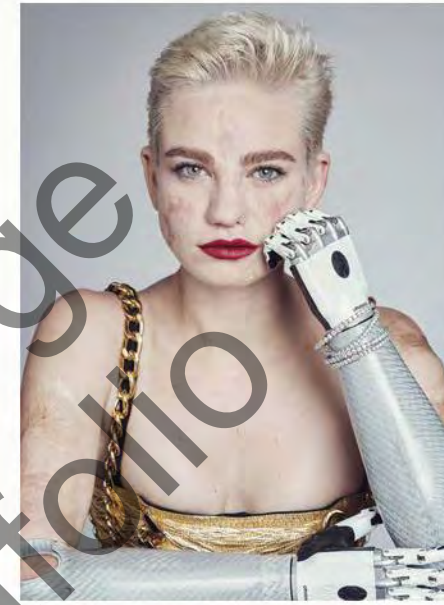
ARCH 120

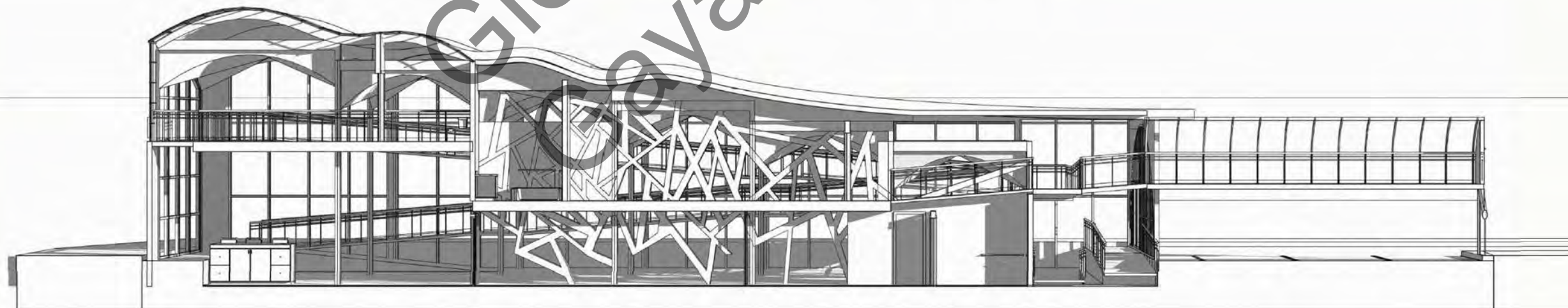
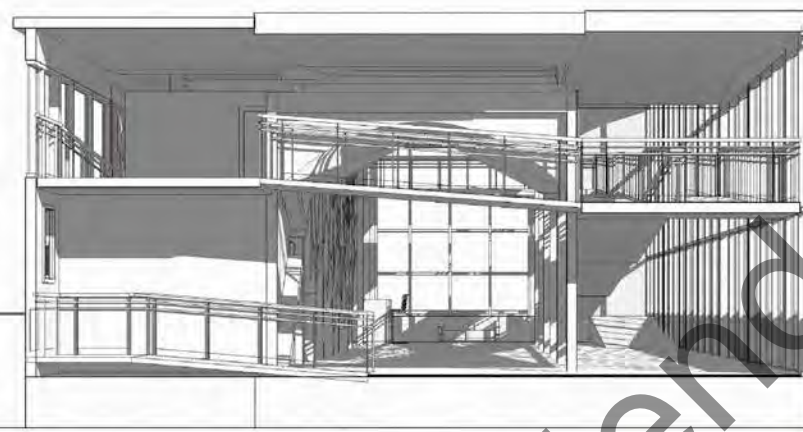
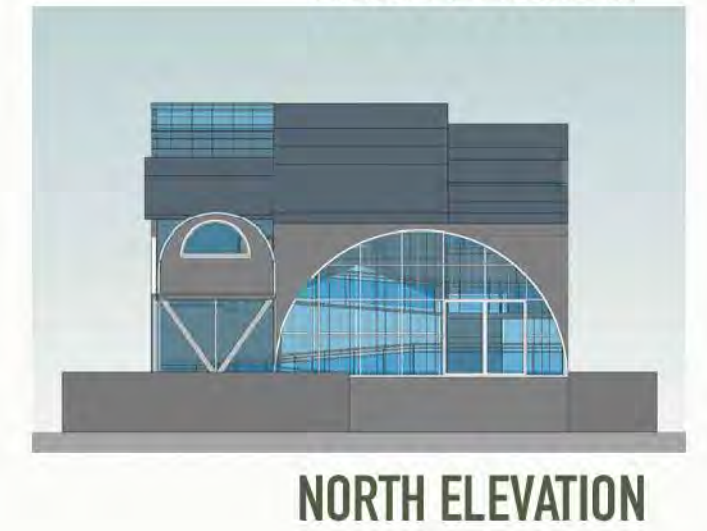
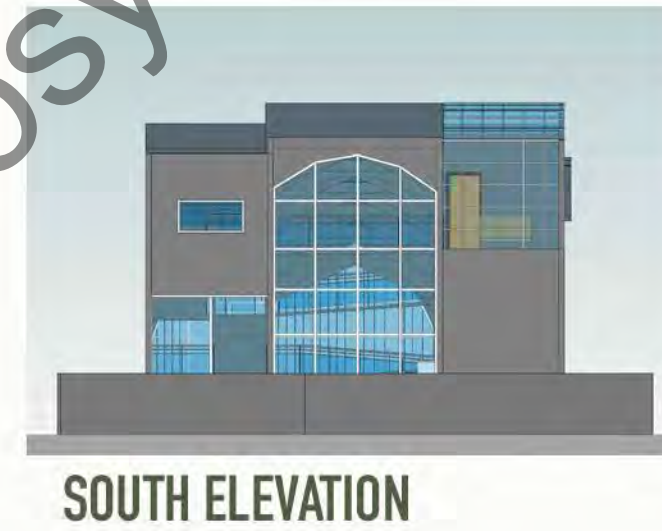
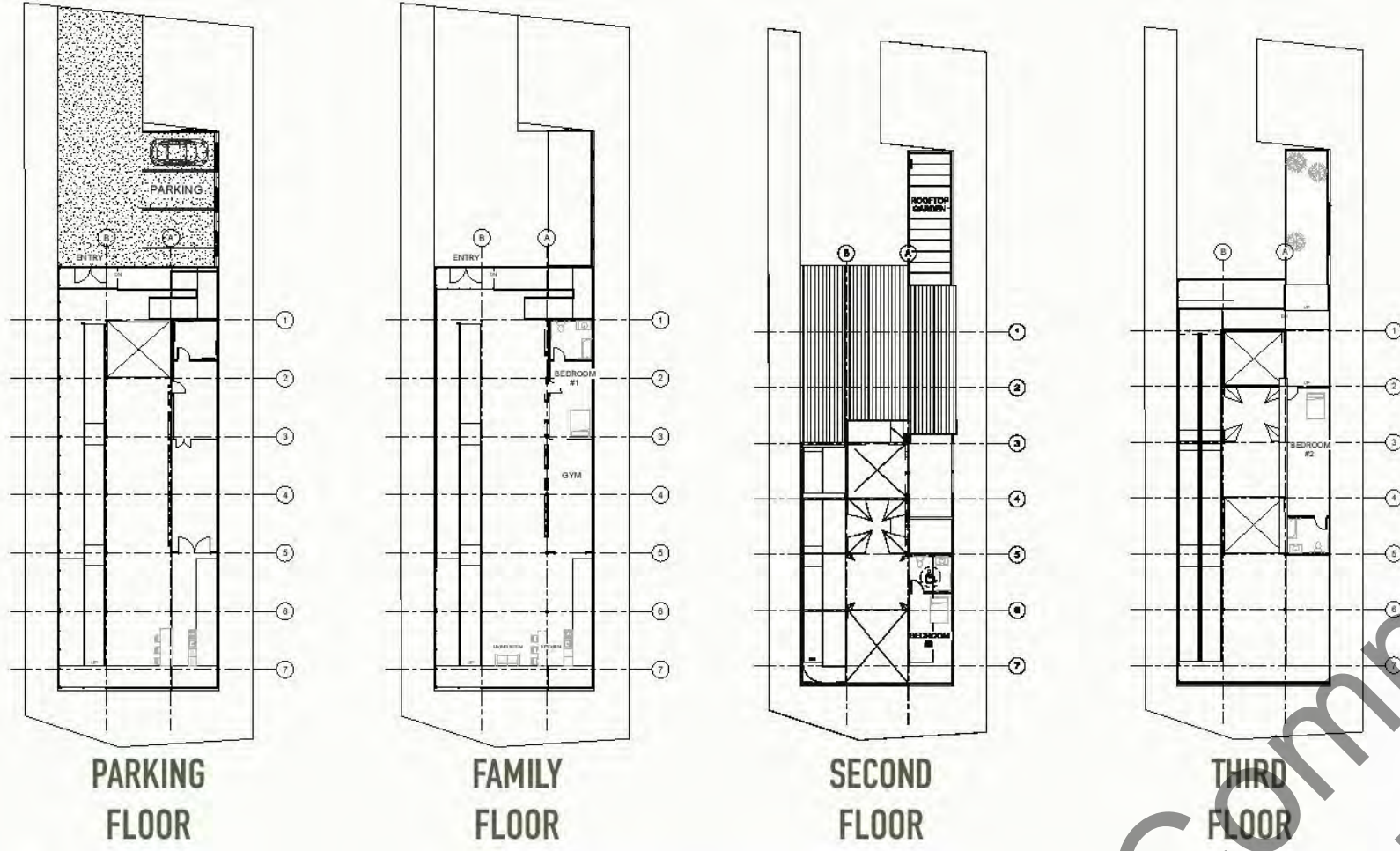
Residential Architectural Design I

Fall 2024

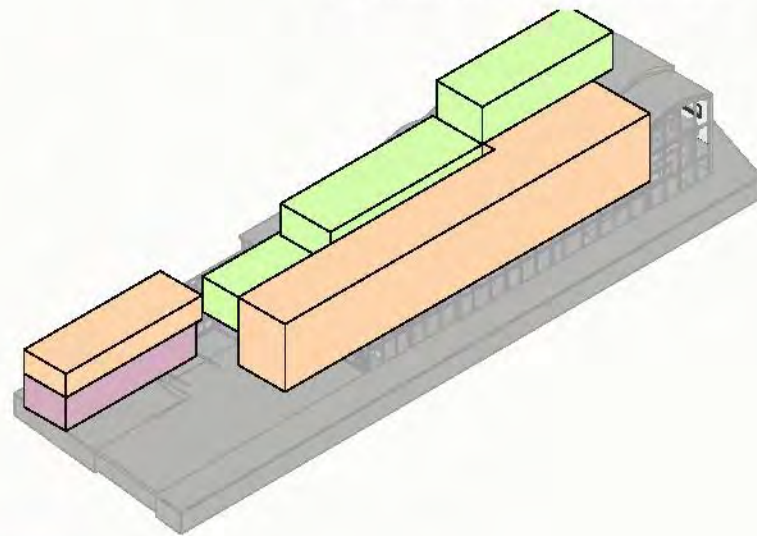
HOUSE FOR BEBE VIO - VIO RESIDENCE

This house is designed in honor of Italian wheelchair fencer Bebe Vio. Three bedrooms of the house represent three different stages of her fascinating journey battling with her disease and becoming European, World and Paralympic champion.



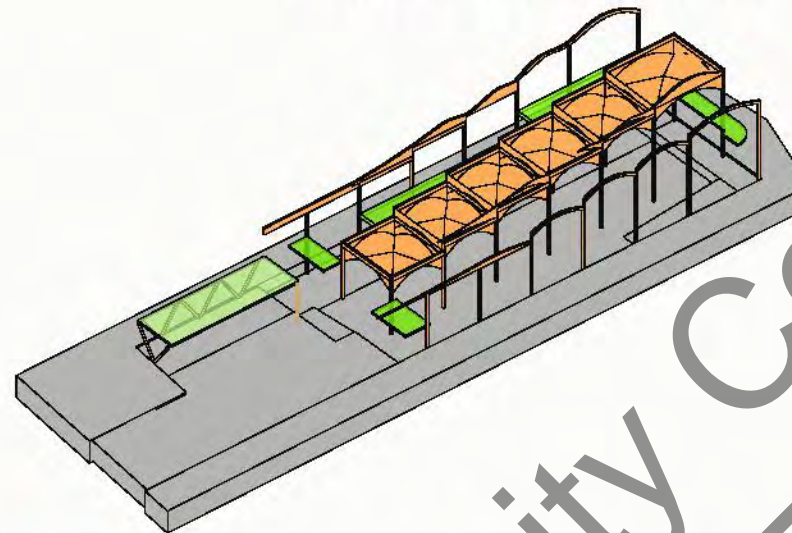


PROGRAM DIAGRAM



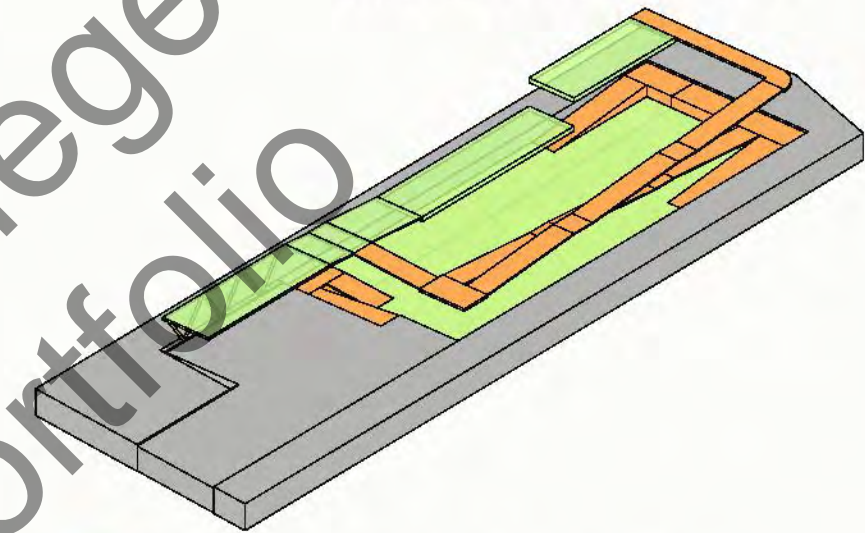
- PUBLIC AREA
- PRIVATE AREA
- PARKING AREA

STRUCTURAL DIAGRAM



- STRUCTURAL COLUMNS AND VAULTS
- STRUCTURAL FLOORS

CIRCULATION DIAGRAM



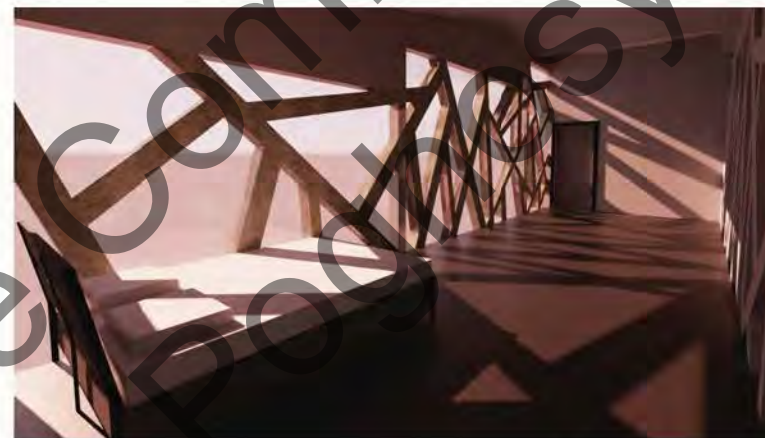
- VERTICAL CIRCULATION - RAMPS
- HORIZONTAL CIRCULATION

BEDROOM #1



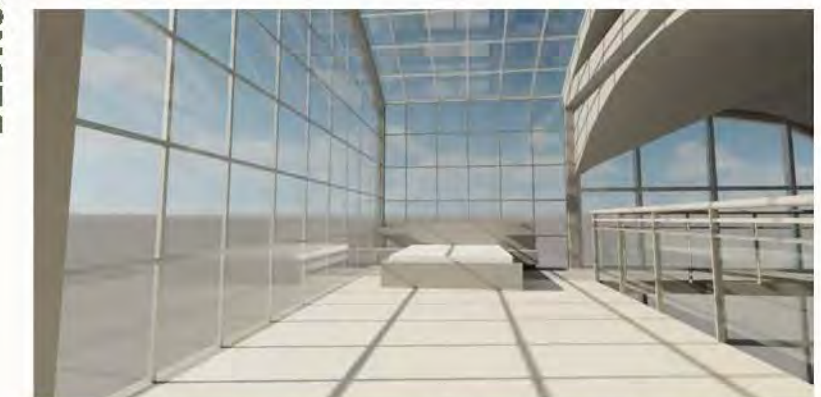
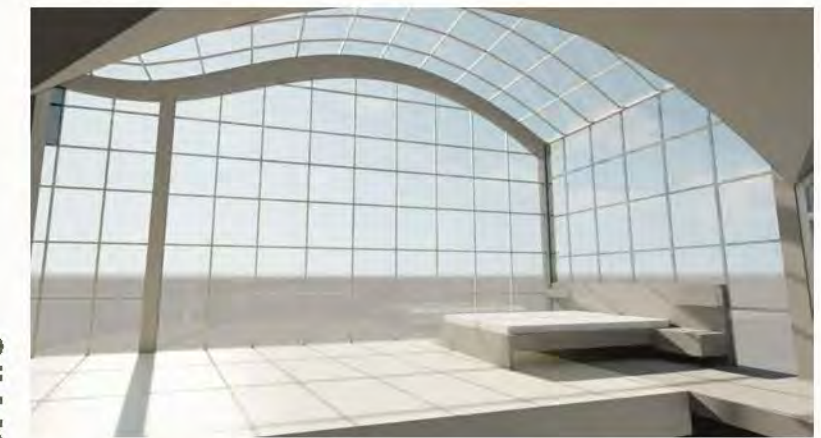
Bedroom #1, located in the beginning of the house, represents Vio's childhood before 11: a time when life was bright, simple, and healthy, highlighted by her passion - fencing. Her gym is a part of the bedroom, showing that athletics has shaped her since childhood and stands in the early foundations of her life.

BEDROOM #2



Bedroom #2 is located on the second floor. It represents the second stage of Vio's life, when she was diagnosed with meningitis and doctors had to amputate both of her legs and arms to save her life. The irregular concrete net, surrounding the bedroom, represents the disease and how it spreads in the body, trying to block the light of life. Yet, that light finds its way in through her strength and hope. The red glass, coloring the room red, shows the tragic effect the disease had on Vio's life.

BEDROOM #3



Bedroom #3 is located on the third and the highest floor of the house. Accordingly, it represents Vio's third stage of life, where she was able to overcome her disease; despite her disability, her passion for fencing and desire to continue living brought her to wheelchair fencing. Not only she recover, but also achieved heights in her career, becoming World, European and Paralympic champion several times. Light, peace and success was back in her life.

REFERENCES TO REAL-LIFE BUILDINGS



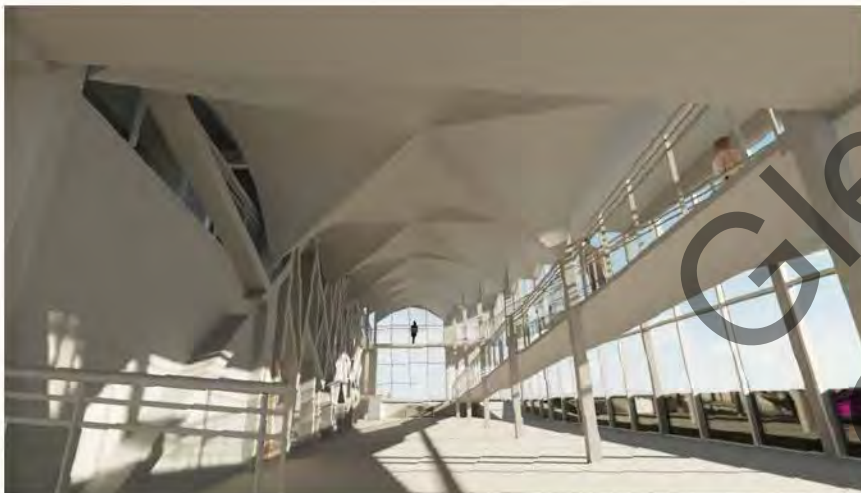
<https://www.paris.fr/pages/les-petits-secrets-du-grand-palais-17477>

Front of the house references Grand Palais of Paris, France, where the 2024 Paralympic wheelchair fencing was held and where Bebe Vio claimed her fifth Paralympic medal.



<https://www.cntraveler.com/activities/paris/grand-palais>

Bedroom #3 also references the interior of Grand Palais, representing Bebe Vio's recent achievement in wheelchair fencing at the 2024 Paralympics.



<https://www.erco.com/en/projects/contemplation/milan-cathedral-6168/>

Vaults and columns, being the main structural elements of the house, reference Milan Cathedral, highlighting Bebe Vio's Italian roots and her Italian pride.

ARCH 125

Residential Architectural Design II

Winter 2024

RESIDENTIAL - TRAINING COMPLEX FOR PARALYMPIANS

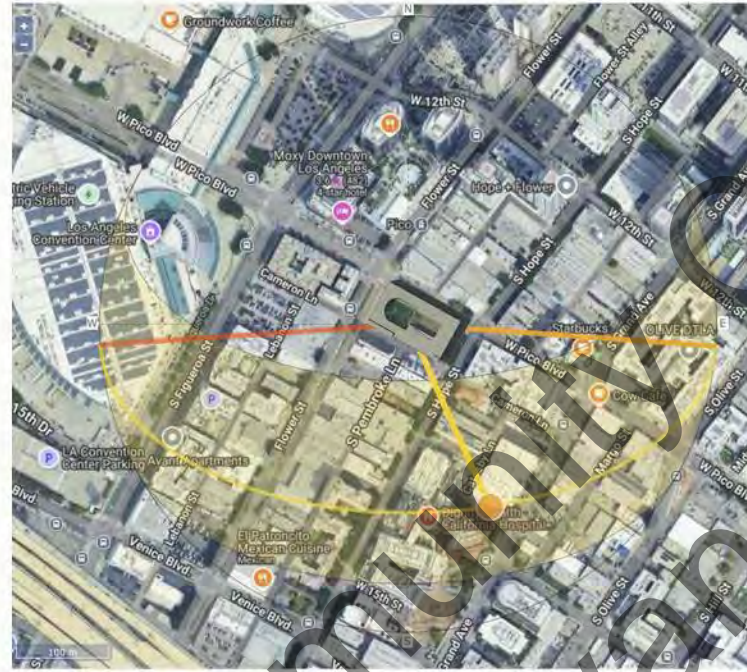
This complex is designed both for Paralympic athletes as a private residence and training complex and for public commercial use. The site is chosen strategically since it is located near the Los Angeles Convention Center and a Hospital Complex.



TRAFFIC DIAGRAM



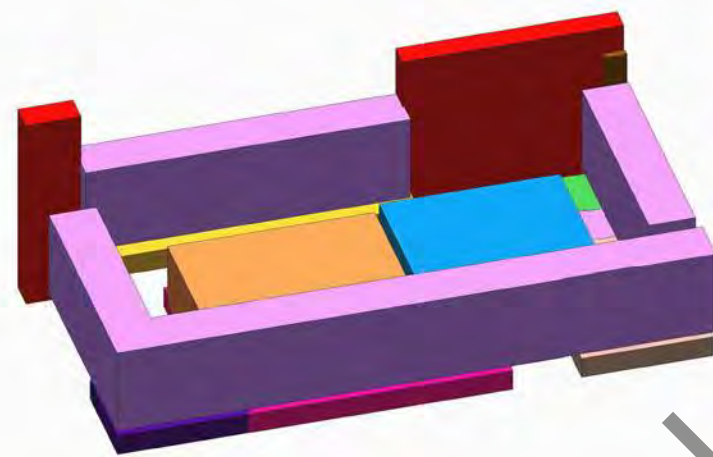
SUN PATH - WINTER, NOON



SUN PATH - SUMMER, NOON



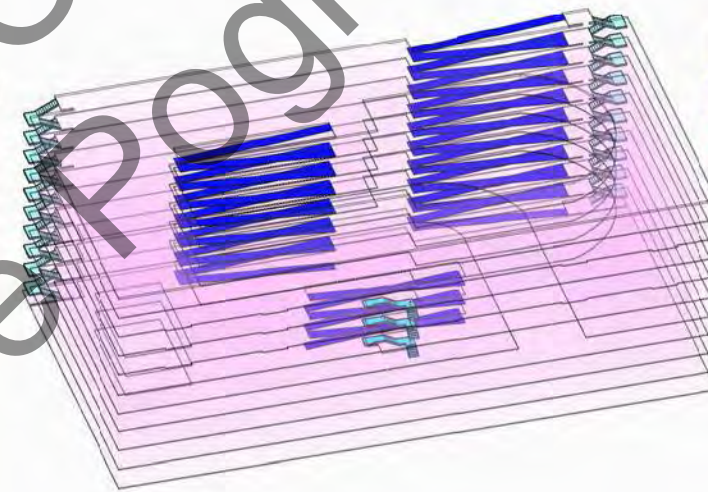
PROGRAM DIAGRAM



- Living Units
- Administration/Reception
- Media Center
- Cafeteria/Restaurant
- Kitchen
- Drop-Off Area
- Training Pool
- Basketball Court
- Egress Stairs/Ramps
- Trash Chute

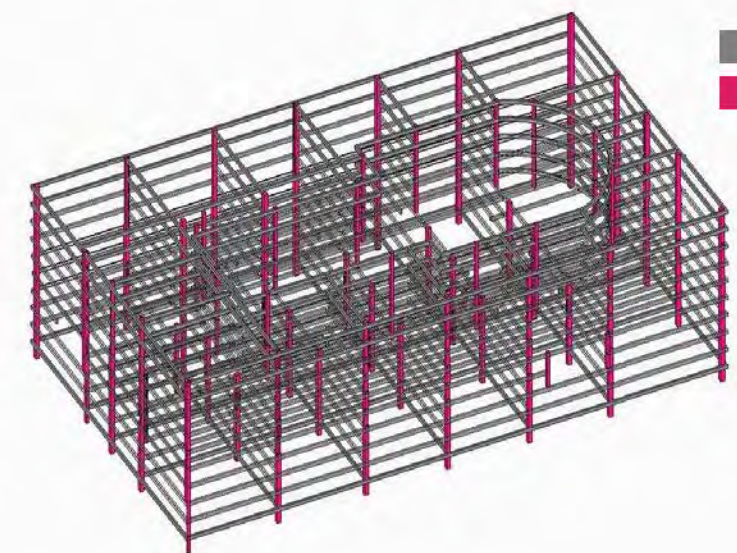
- Public Area
- Private Area

CIRCULATION DIAGRAM



- Hallways
- Ramps
- Staircases

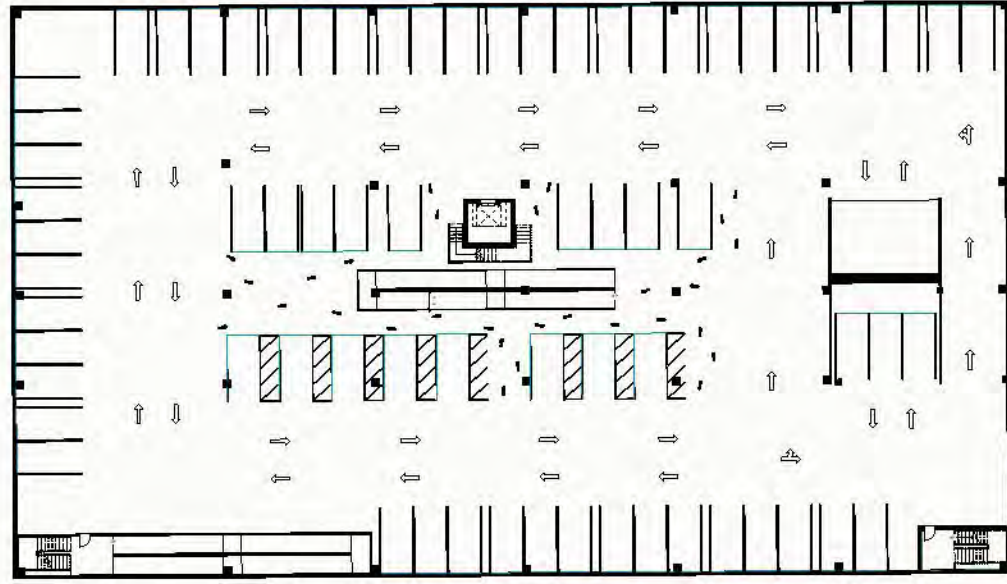
STRUCTURAL DIAGRAM



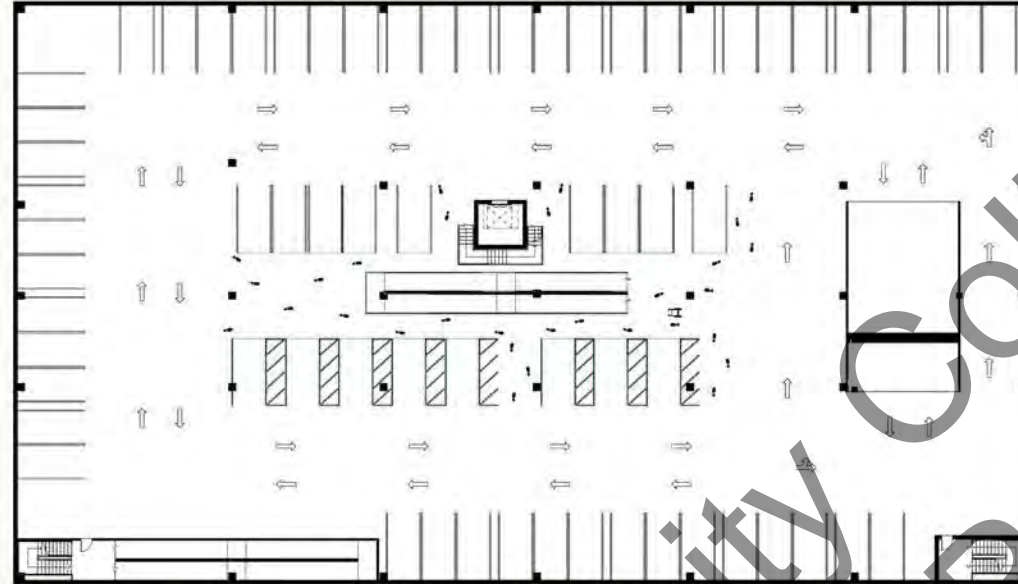
- Beams
- Columns

FLOOR PLANS

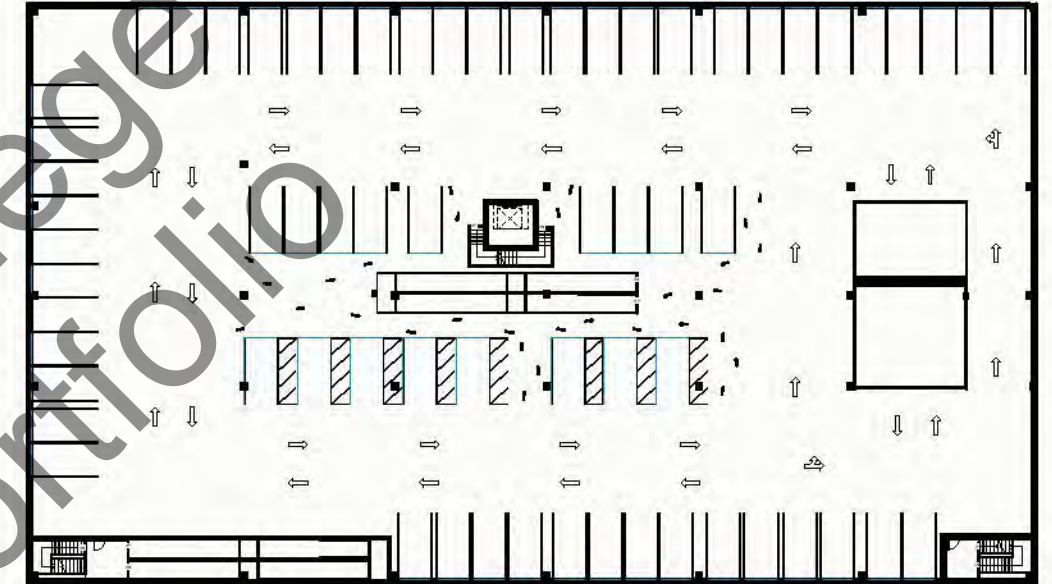
UNDERGROUND PARKING 3



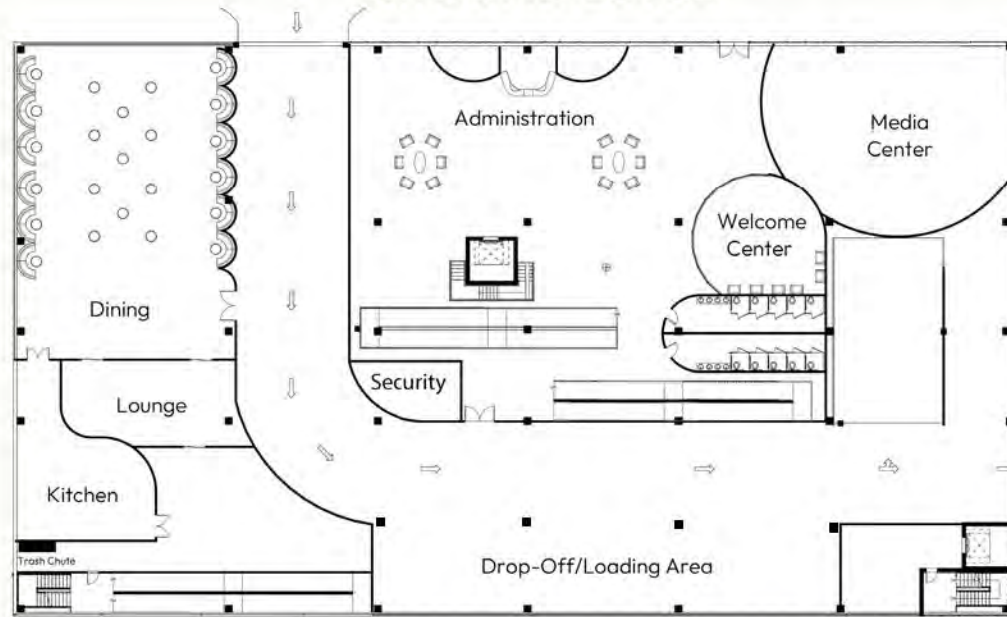
UNDERGROUND PARKING 2



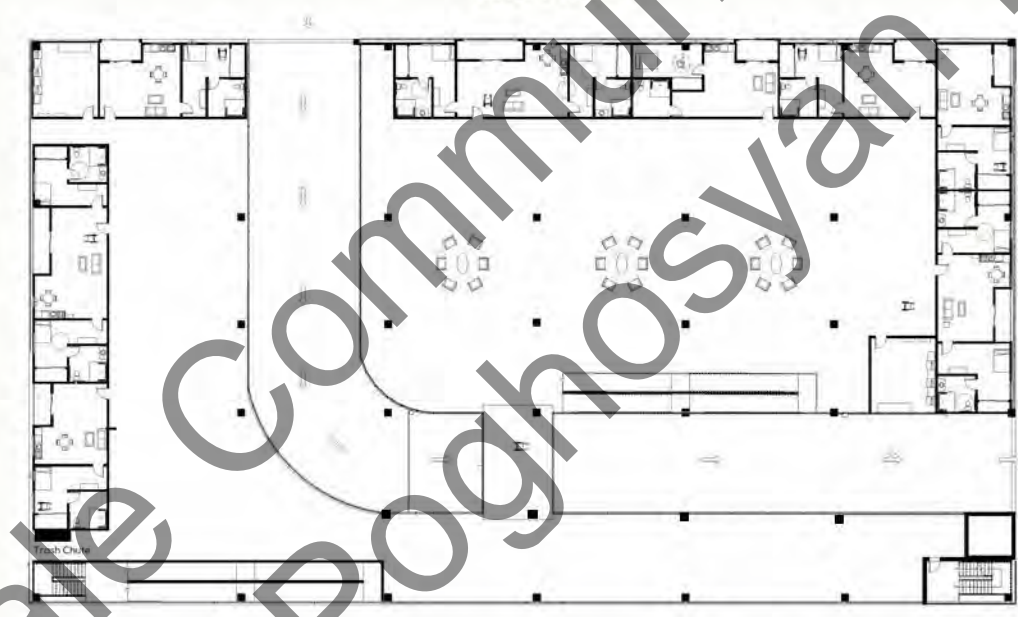
UNDERGROUND PARKING 1



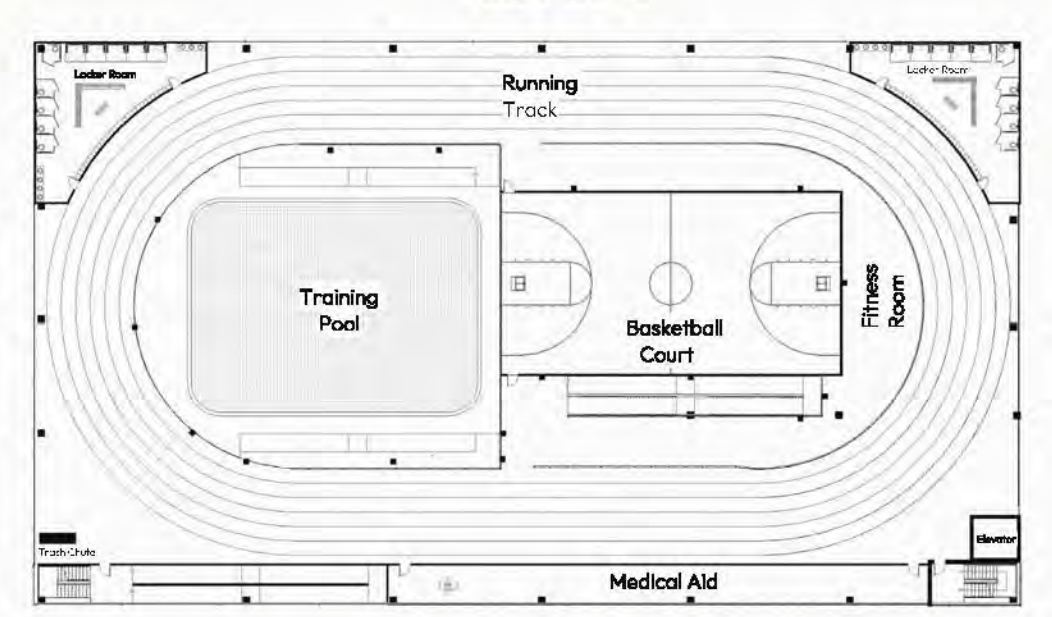
GROUND LEVEL



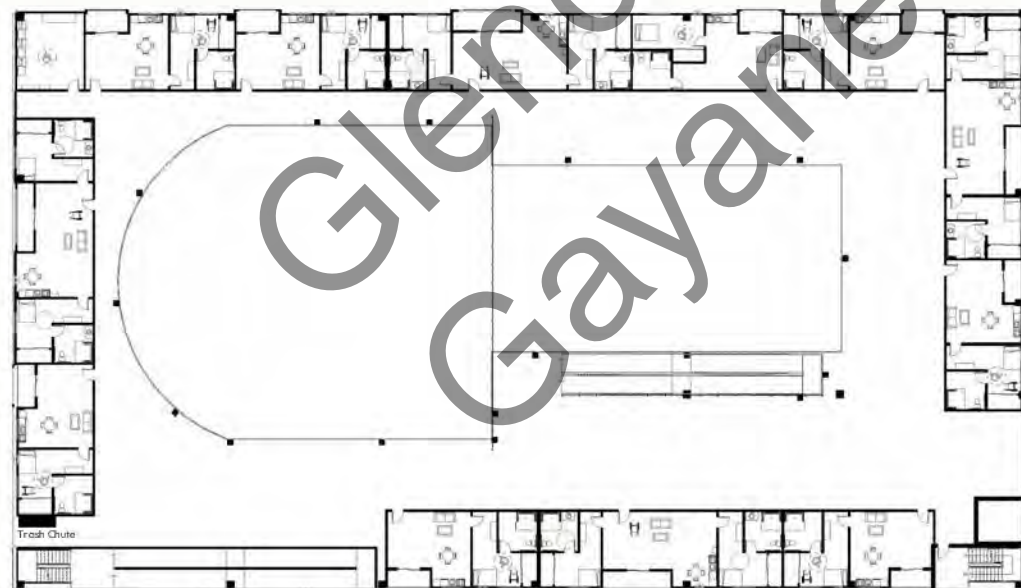
LEVEL 1



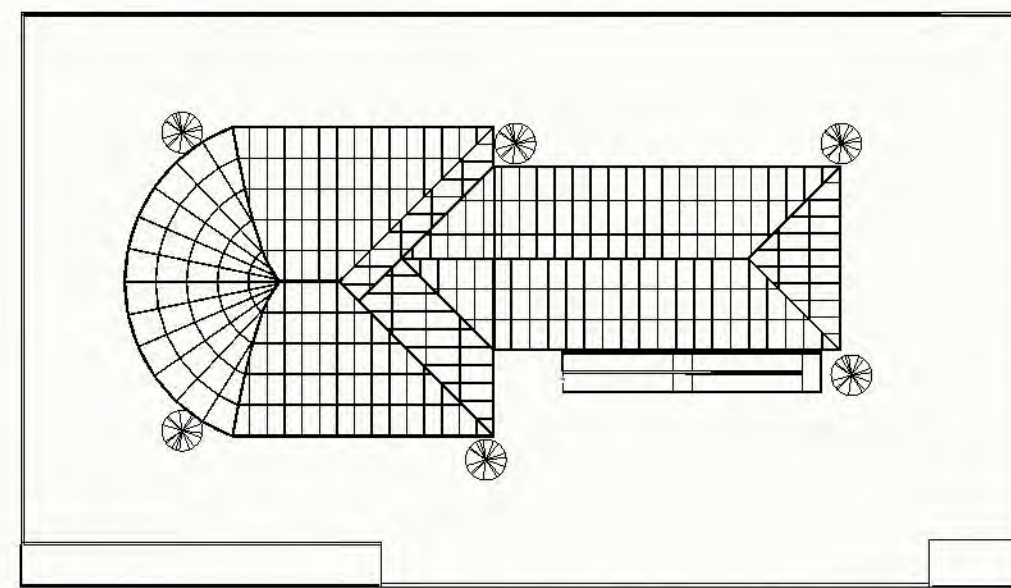
LEVEL 2



LEVELS 3-6



ROOF



EAST
ELEVATION



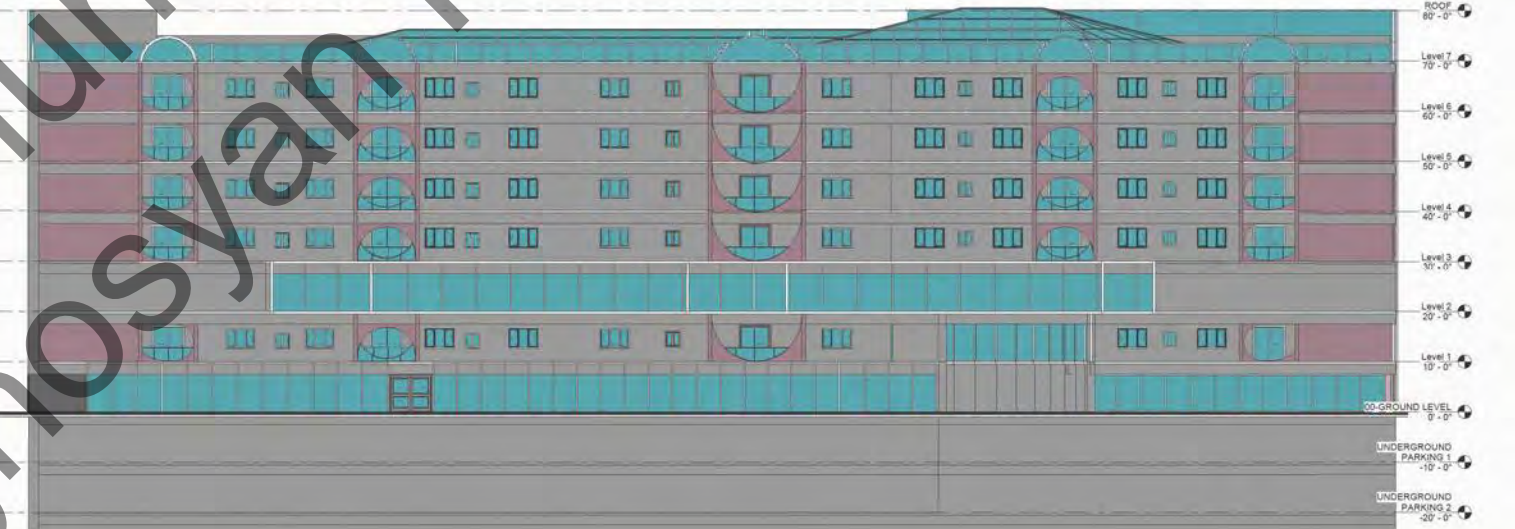
SOUTH
ELEVATION



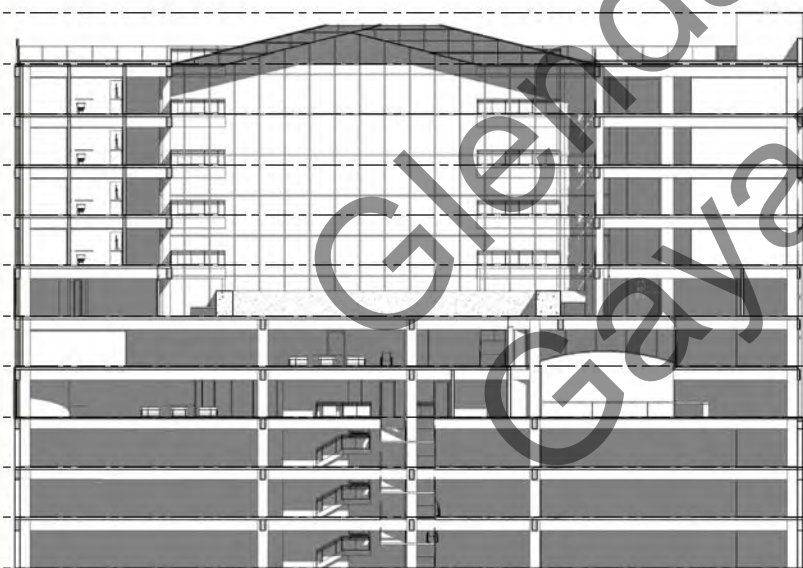
WEST
ELEVATION



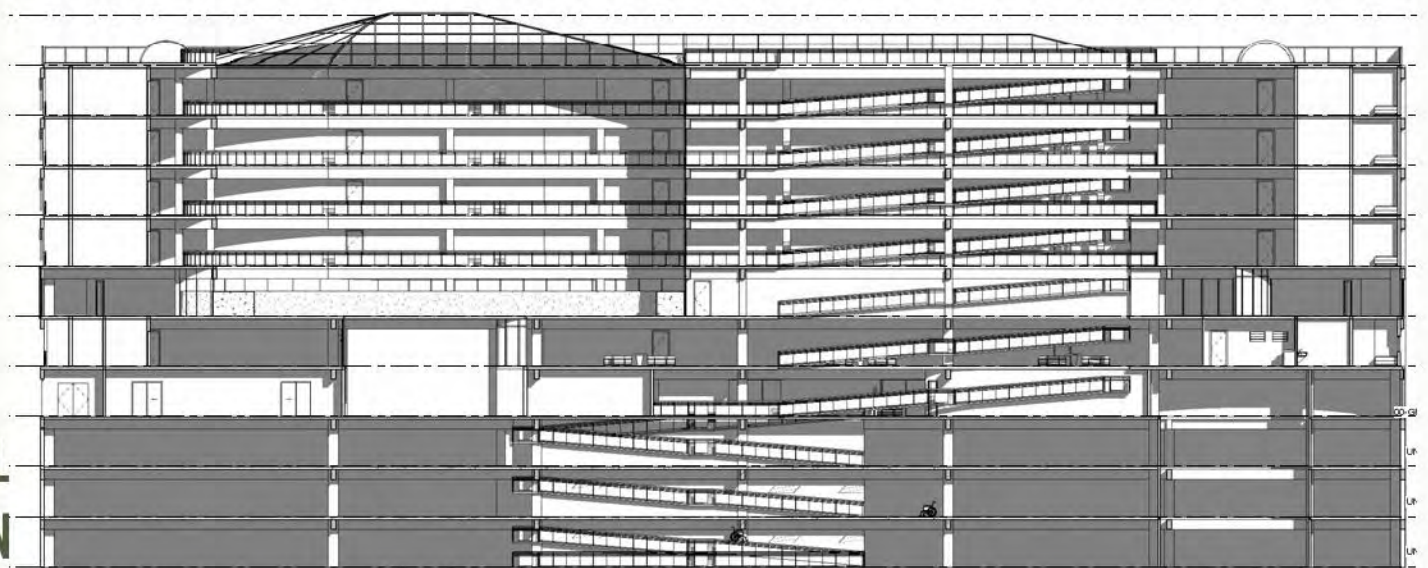
NORTH
ELEVATION



TRANSVERSE
SECTION



LONGITUDINAL
SECTION

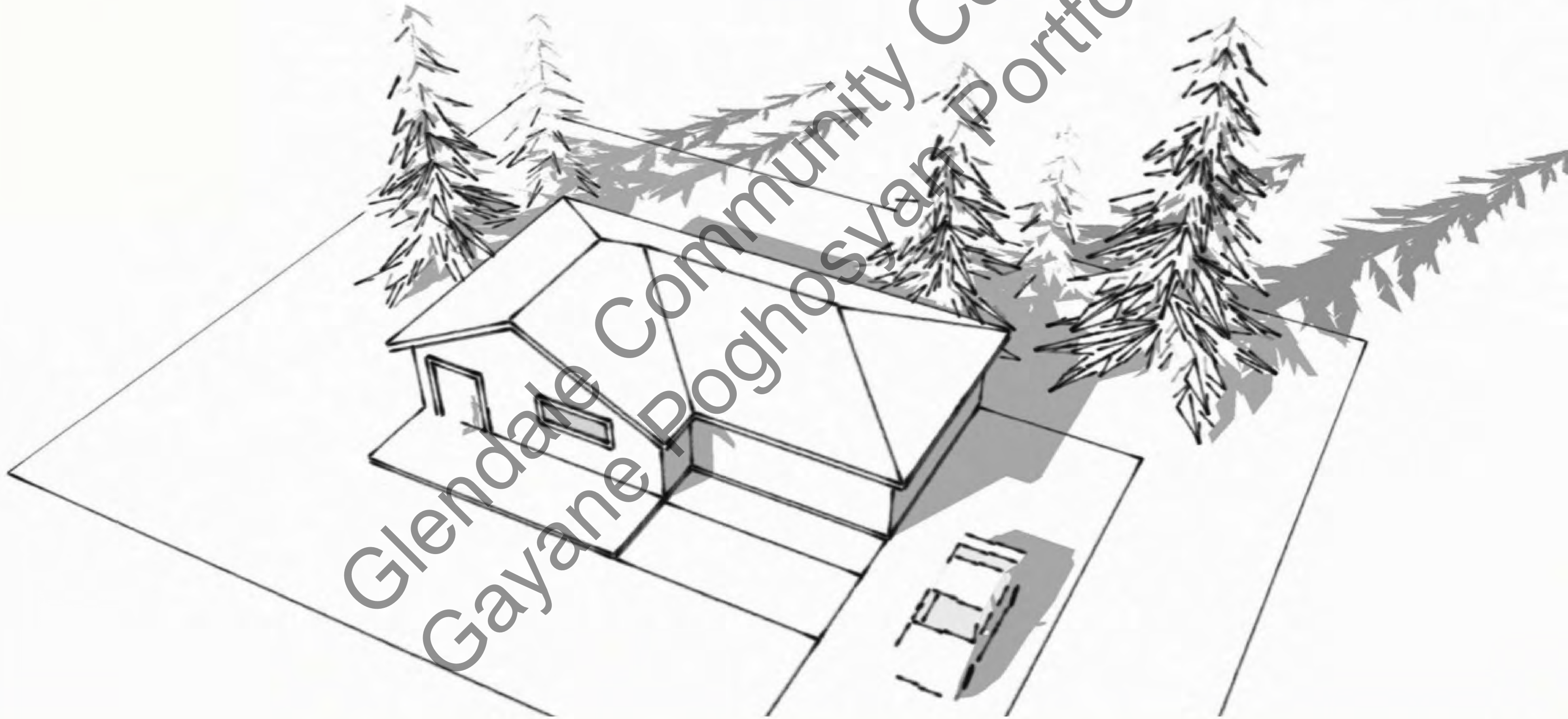


ARCH 105

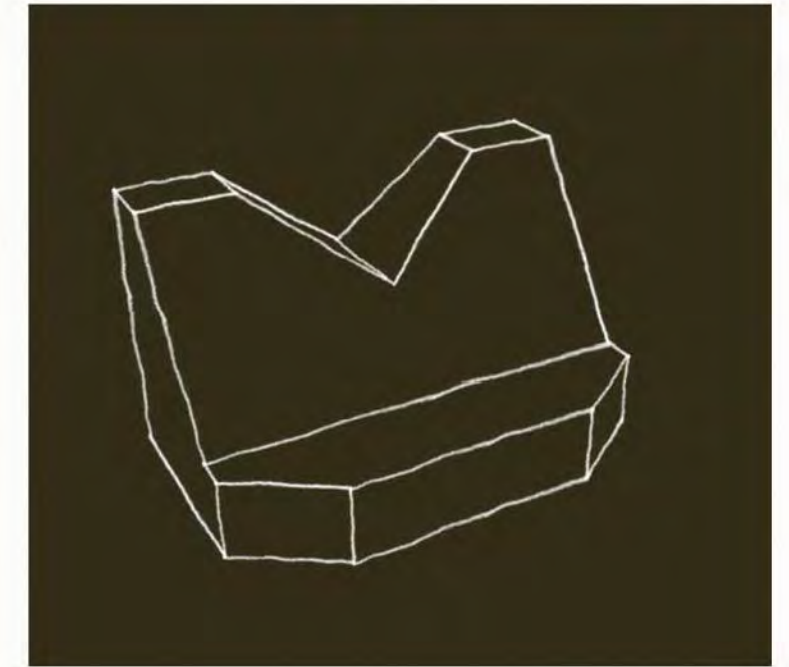
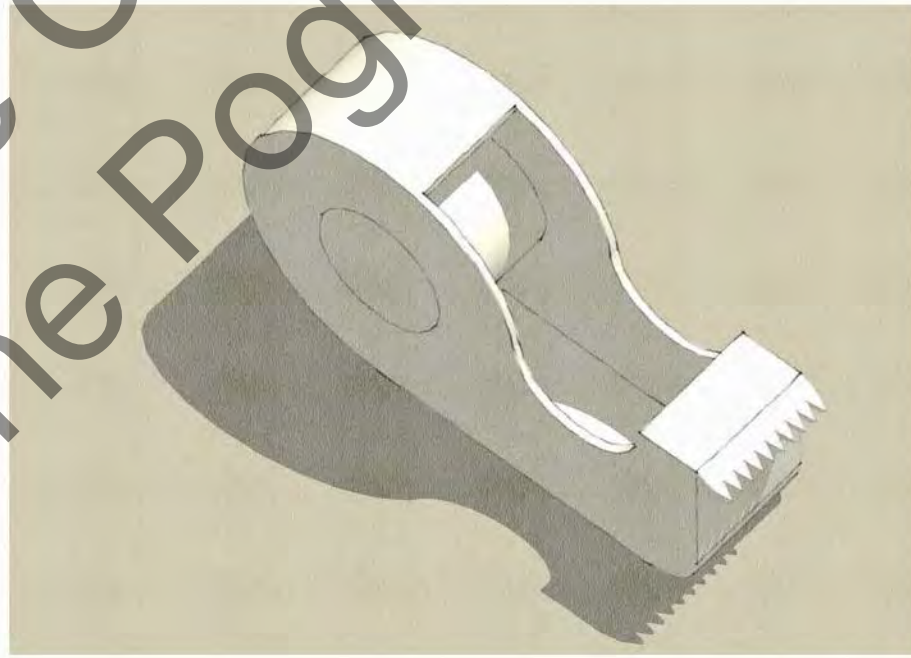
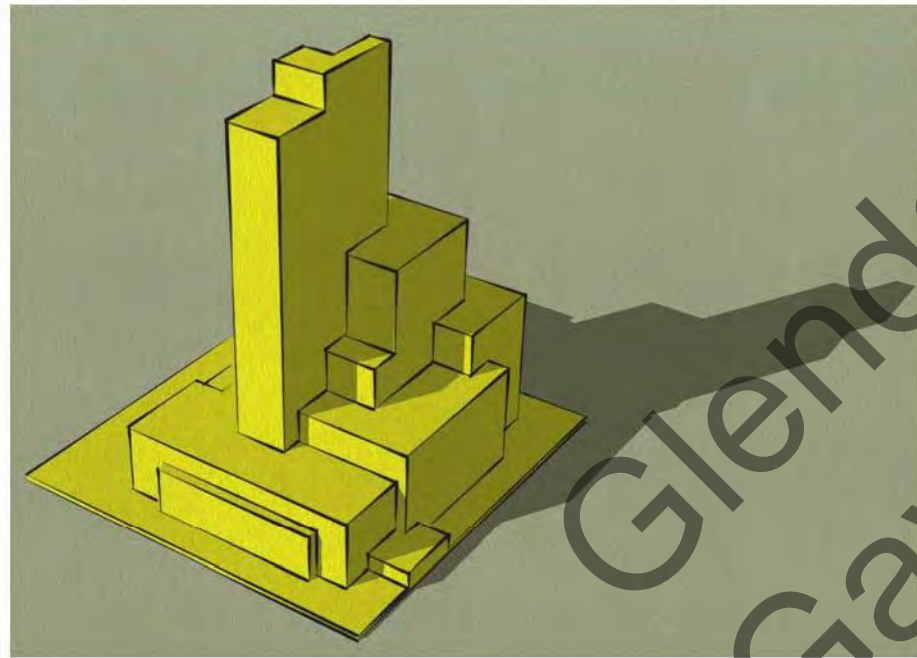
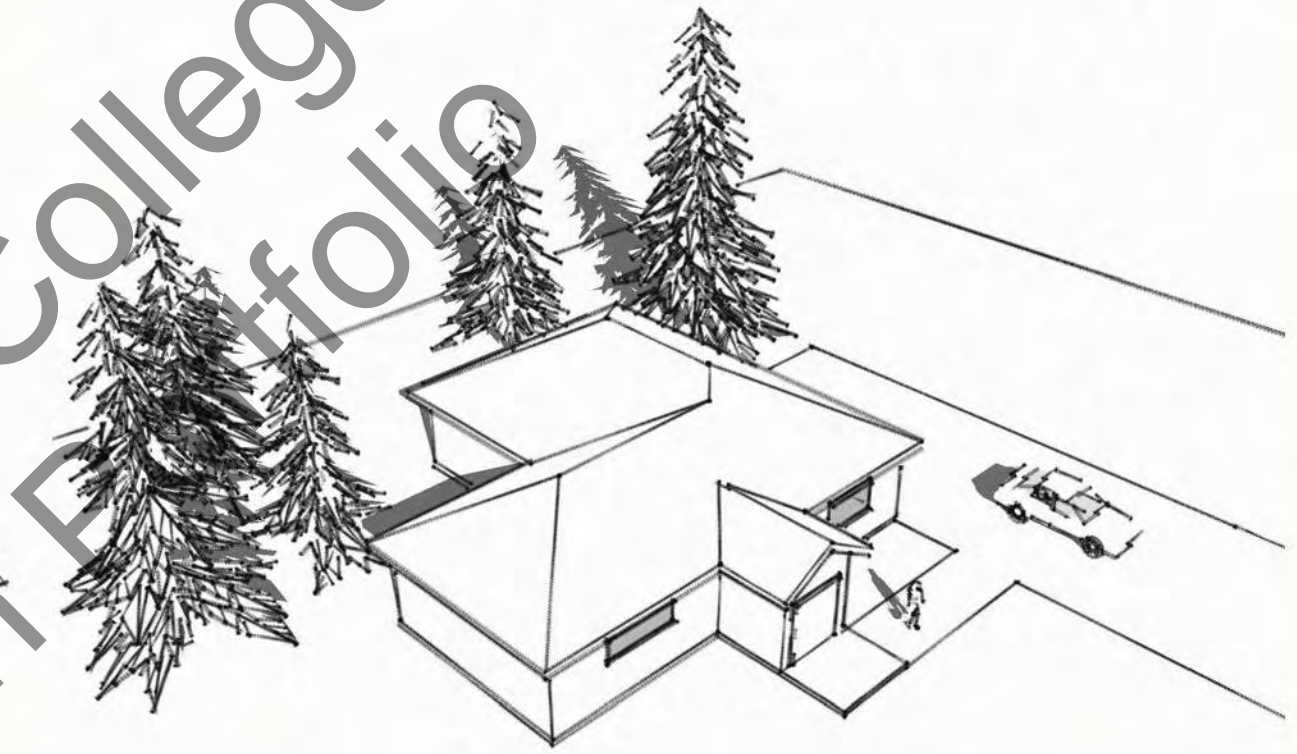
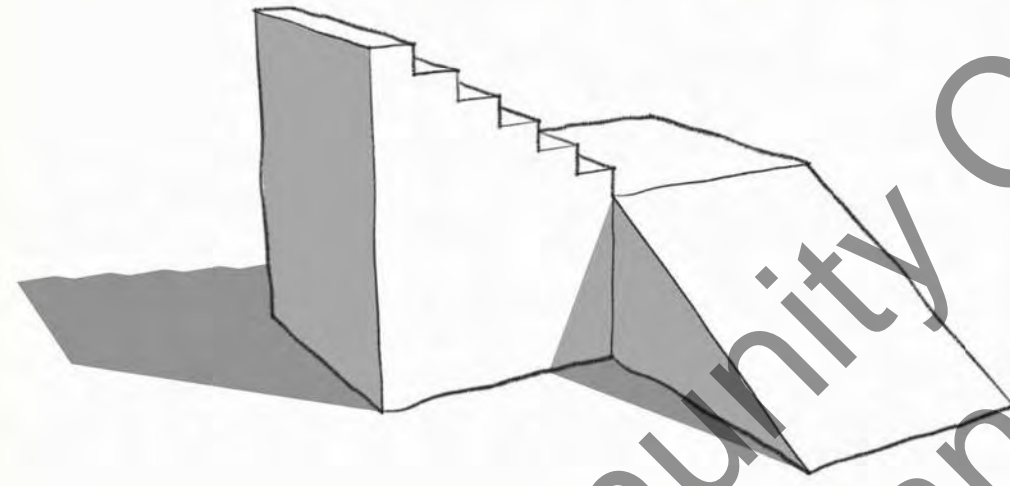
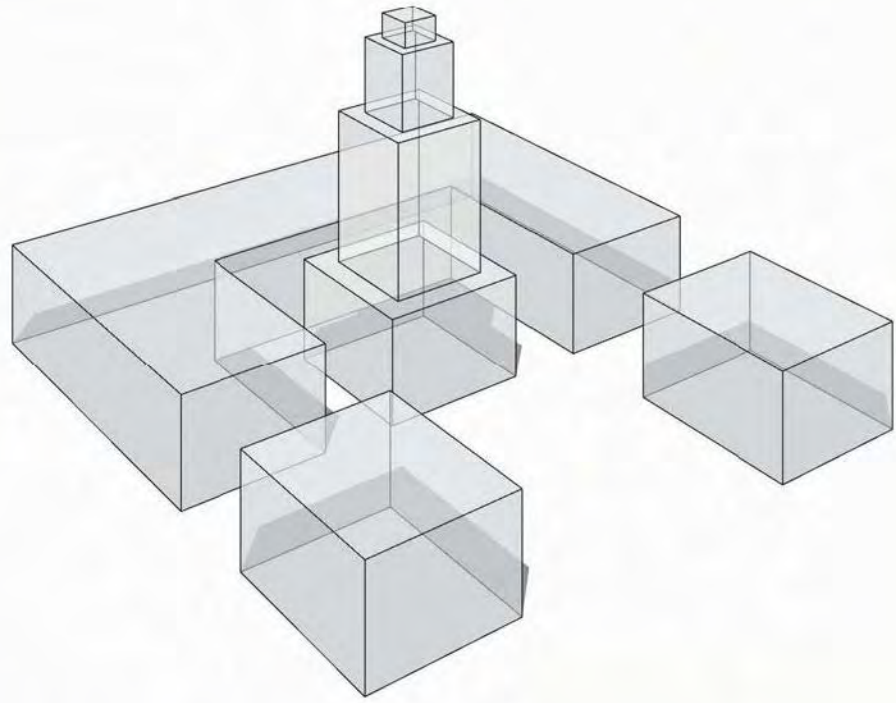
Perspective Graphics w/ intro to SketchUp and Rhino

Fall 2024

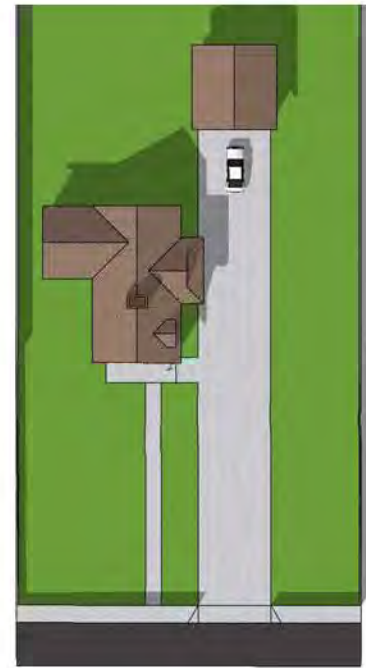
Projects covered during this course were SketchUp and Rhino concentrated, with an emphasis on understanding perspective graphics. Following instructions and tutorials of the Professor, I gained SketchUp and Rhino skills, also had opportunities to decide the designs of the tutorial projects.



EXAMPLES OF SKETCHUP PROJECTS (pg.16,17)



ONE-STORY RESIDENTIAL



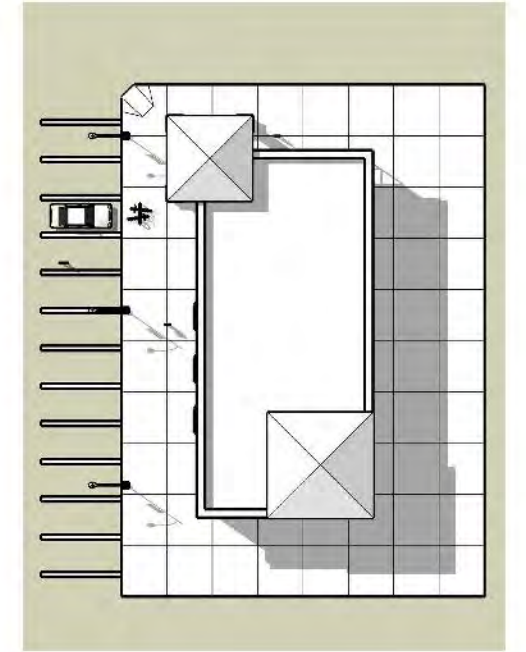
SITE PLAN



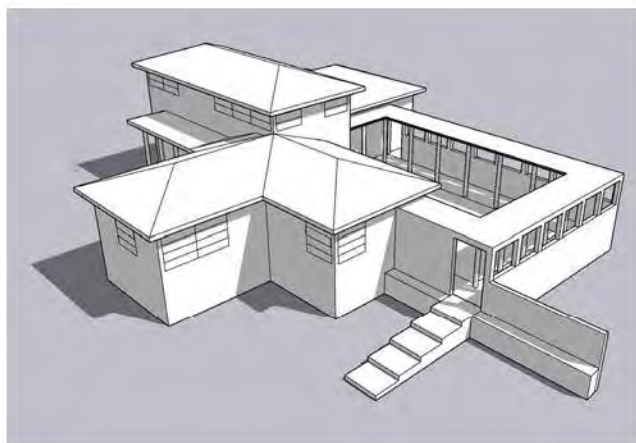
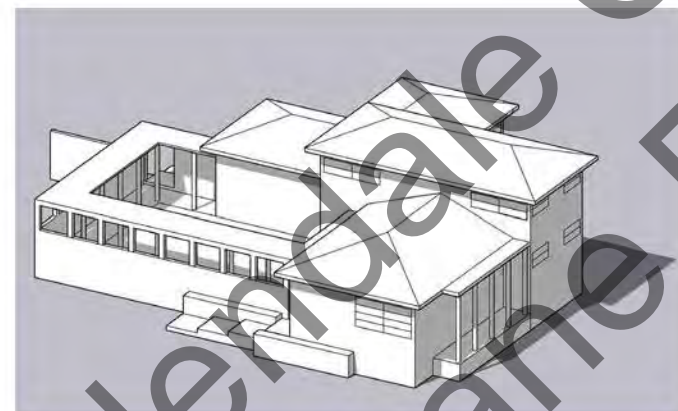
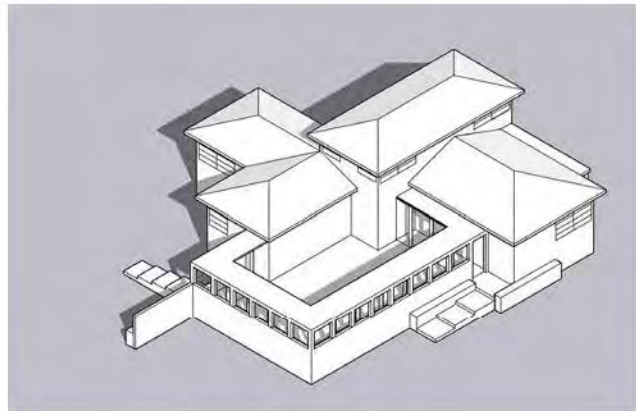
FRONT ELEVATION



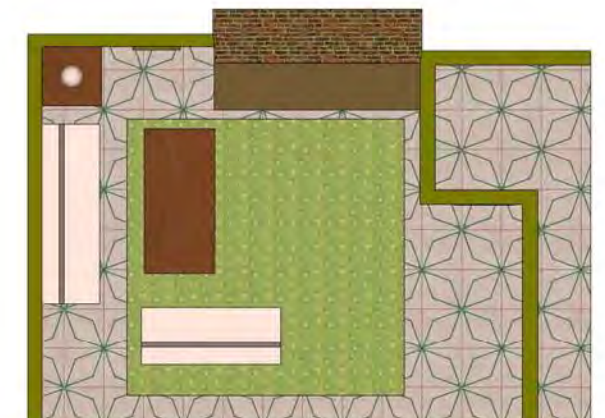
COMMERCIAL BUILDING



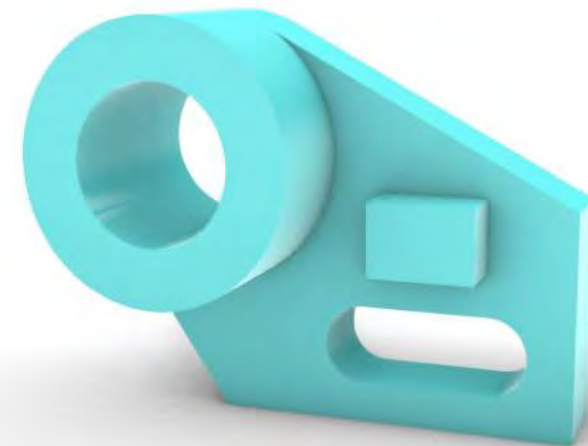
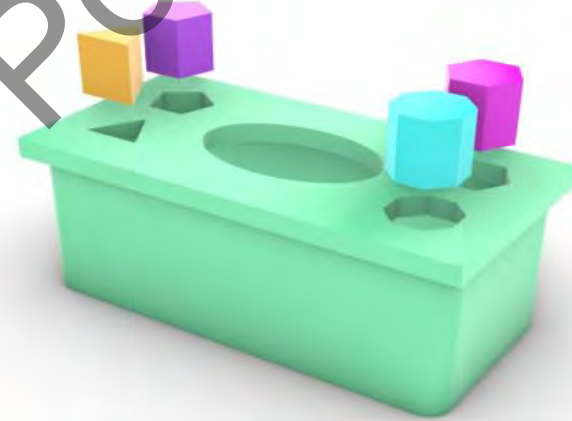
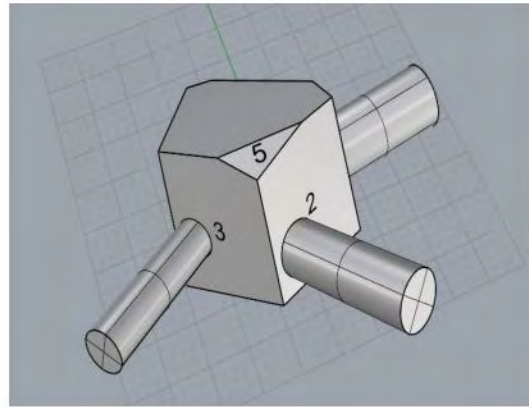
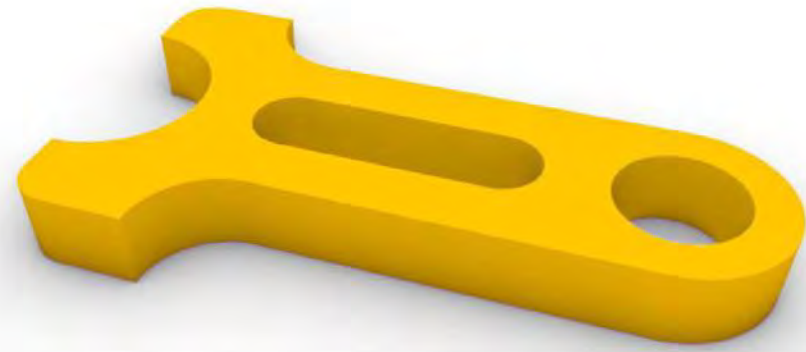
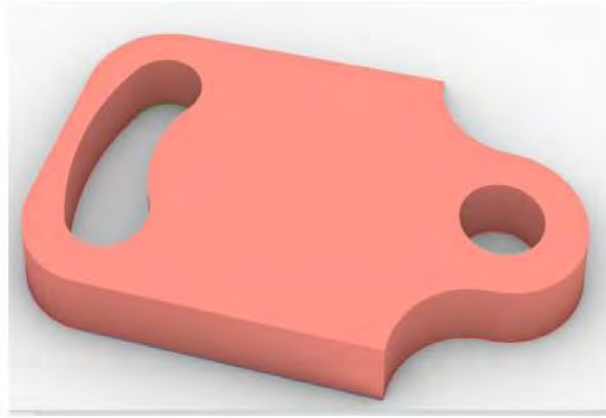
TWO-STORY RESIDENTIAL



LIVING-ROOM



EXAMPLES OF RHINO PROJECTS



Glendale Community College
Gayane Poghosyan Portfolio

ARCH 229

Intro to 3D Visualization for Architecture and Interior Design

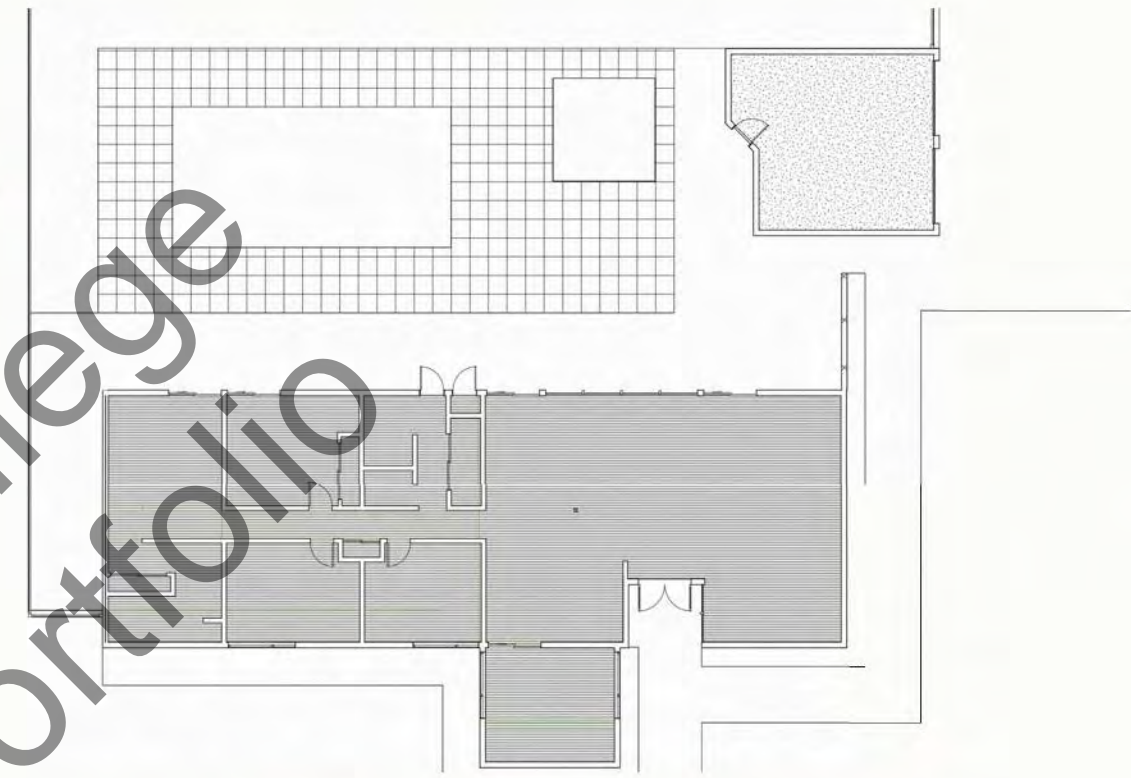
Fall 2024

Projects covered during this course were with an emphasis on 3D Visualisation for Architecture and Interior Design. Softwares like 3dsMax, Twinmotion and Photoshop were used for producing architectural 3D visualizations. I followed the Professor's instructions and added my designs to the tutorials.





Coffee Shop Tutorial using 3ds Max. Created a 3D object and placed on a real-life picture, to visualize the object on the site.



Building given by the Professor.

Used Twinmotion to design the exterior and interior of the house and produce renderings at different times of the day and season.



Recent Shots from BAPS Shri Swaminarayan Mandir



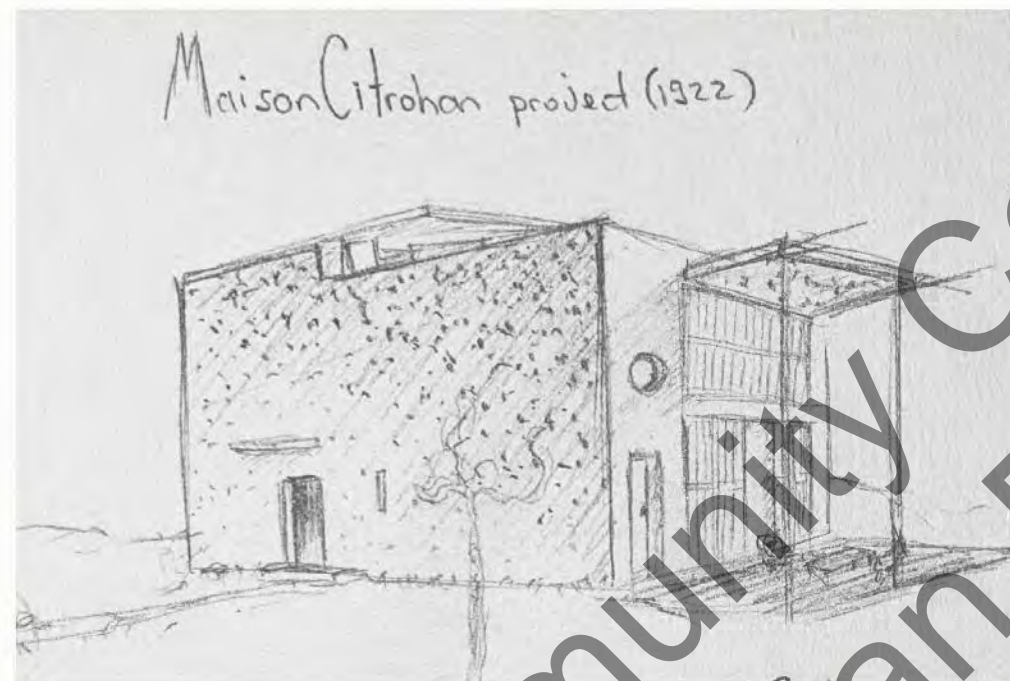
Visiting BAPS Shri Mandir was a valuable experience, where I got to see architecture that I learned about during Art History of the Eastern World. BAPS Shri is a unique example of Hindu architecture in Southern California. As an architecture student, it was fascinating for me to learn that this complex is the first earthquake resistant Mandir in the world.

SKETCHES AND DRAWINGS

Lmbatavank, Artik, Armenia



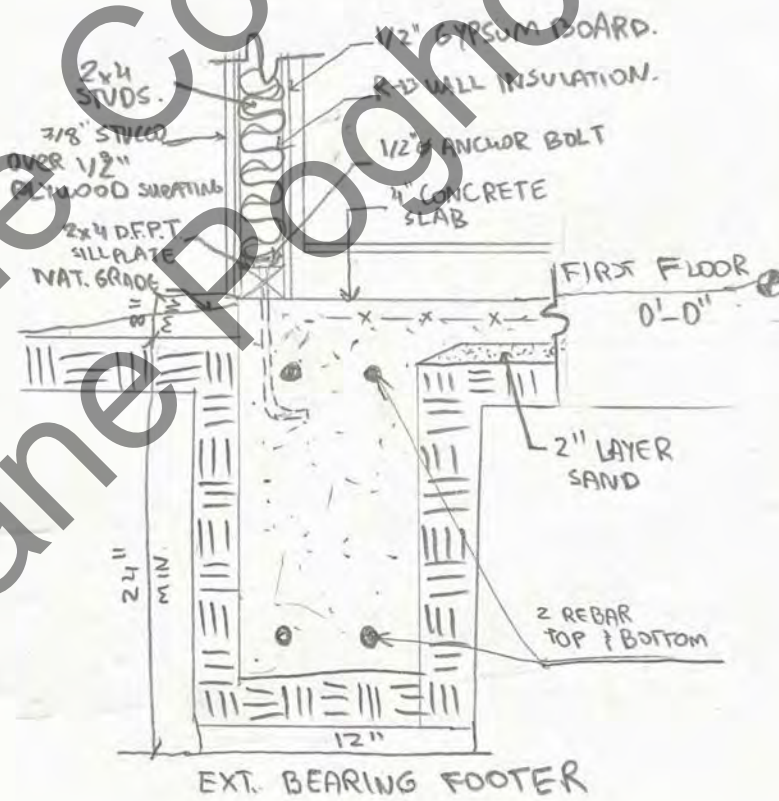
Maison Citrohan, LeCorbusier



Quick Sketch



Exterior Bearing Footer
Hand Drawing



Initial sketches of Vio Residence



The House from "Ponyo", Studio Ghibli

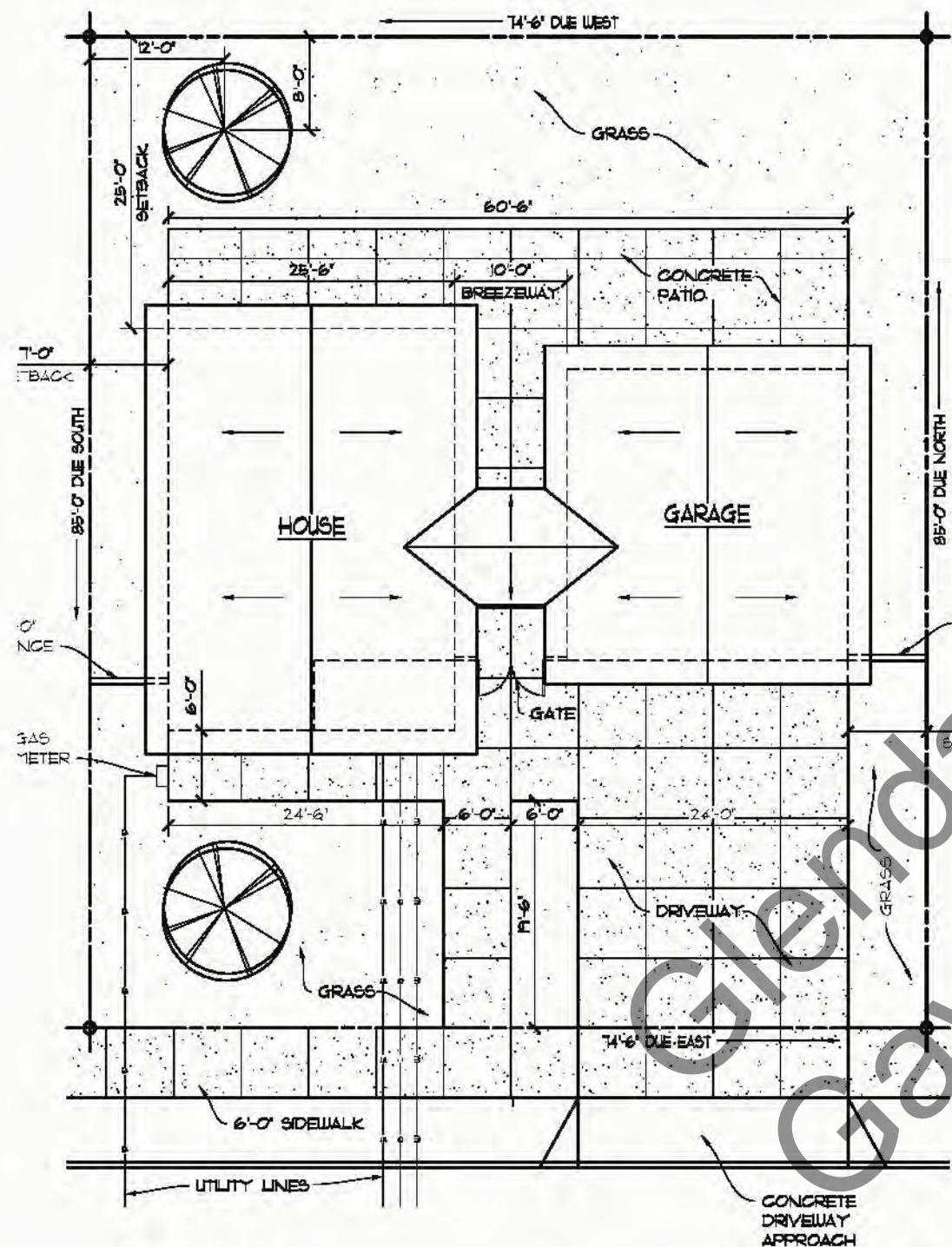


ARCH 101

Drafting and Basic Design

Fall 2023

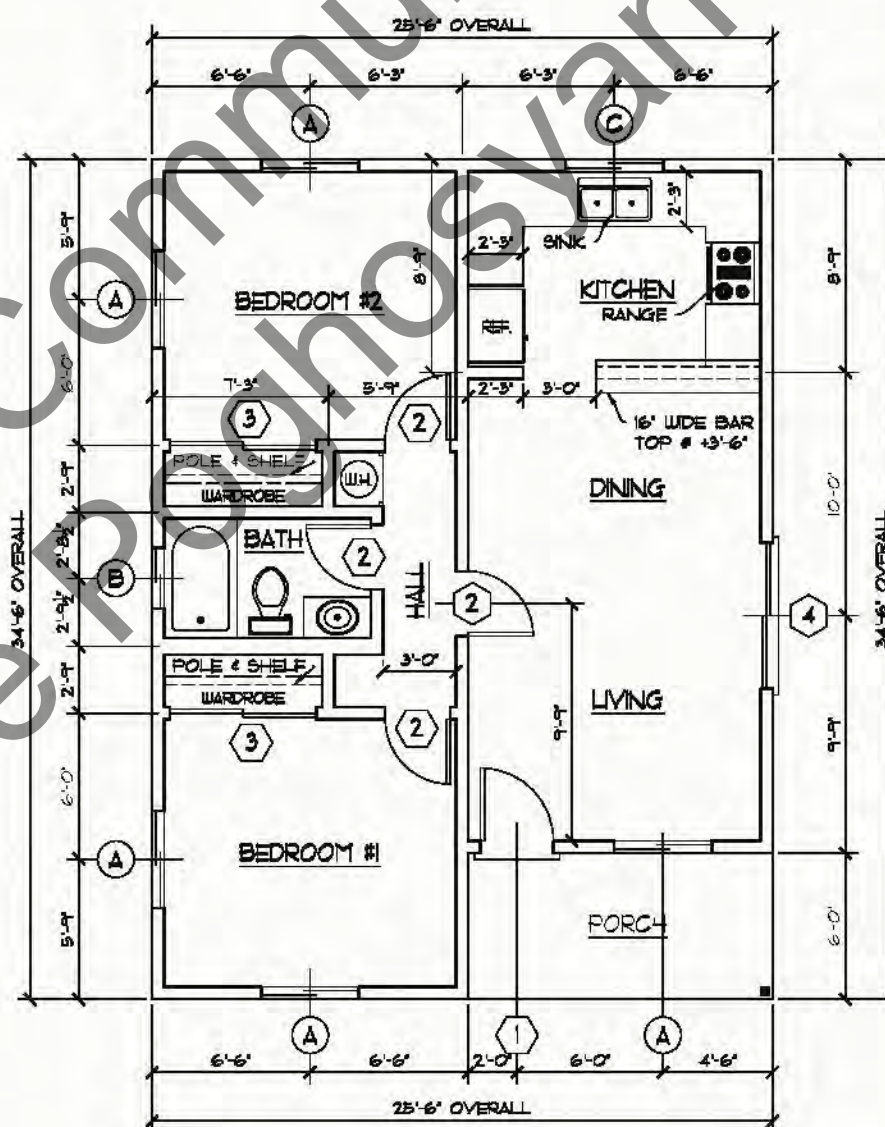
Arch 101 was AutoCAD based course. The emphasis of the projects was learning basics of residential house design and AutCAD drafting using AutoCAD, following the professor's tutorials.



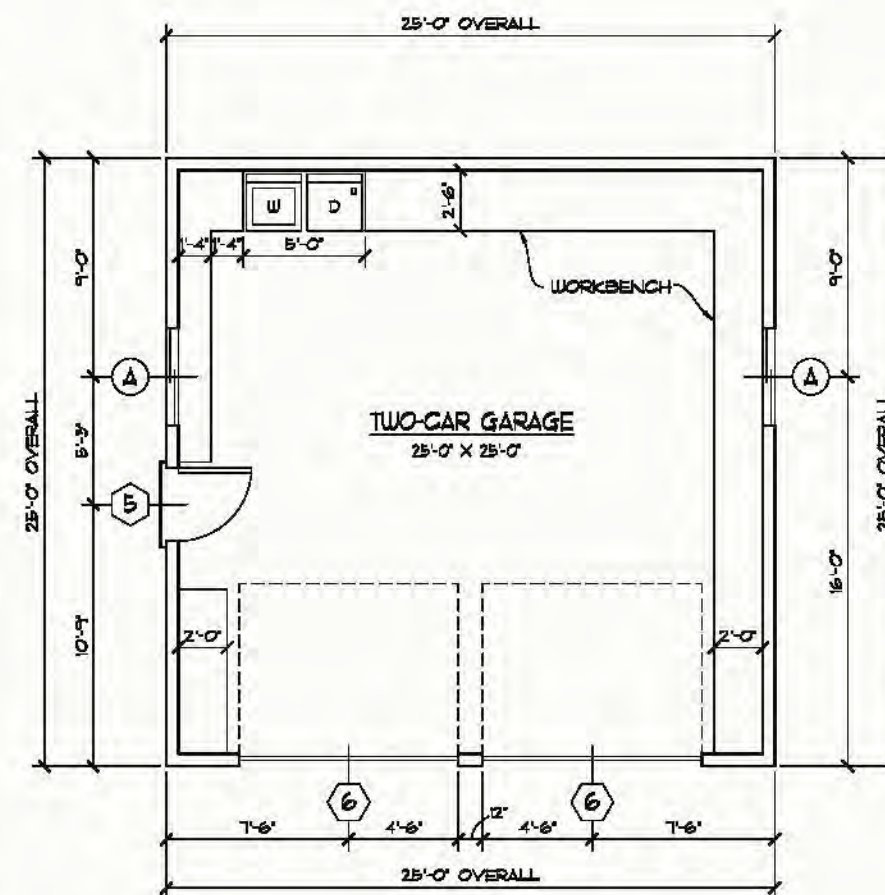
SITE PLAN
SCALE: 1/8"=1'-0"

WINDOW SCHEDULE									
SYML	QTY	WIDTH	HEIGHT	TYPE	FRAME	SCREEN	GLZ. AREA	VENT. AREA	REMARKS
(A)	7	4'-0"	4'-0"	SLIDING	METAL	YES	16.0 SF	8.0 SF	
(B)	1	2'-6"	1'-6"			YES	3.8 SF	1.9 SF	
(C)	1	4'-0"	2'-2"			YES	12.1 SF	6.3 SF	

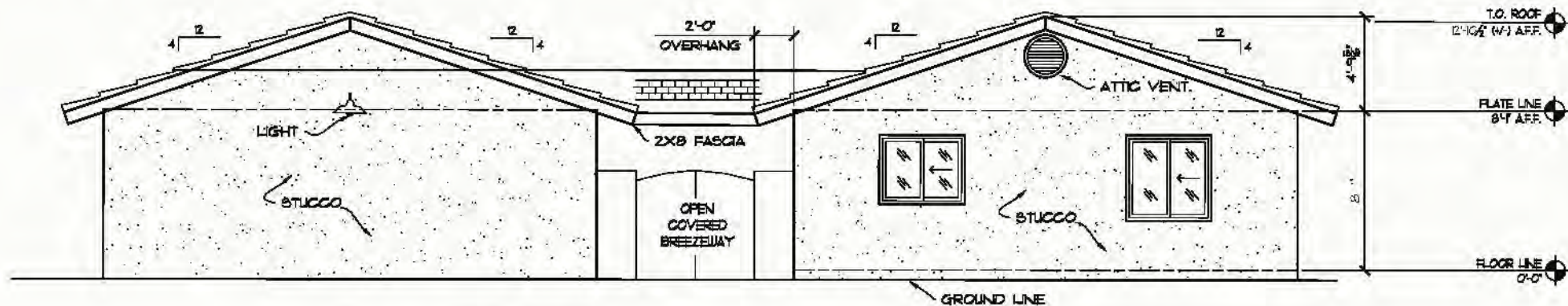
DOOR SCHEDULE										
SYML	QTY	WIDTH	HEIGHT	THK	TYPE	MATERIAL	HC/SC	GLZ. AREA	REMARKS	
(1)	1	3'-0"	6'-8"	1 3/4"	SLAB	WOOD	SC	-		
(2)	4	2'-8"		1 3/8"			HC	-		
(3)	2	6'-0"			SLIDING		-	-		
(4)	1	6'-0"			SLIDING	METAL	-	40.0 SF	1/2" TEMP GLASS	
(5)	1	3'-0"		1 3/4"	SLAB	WOOD	SC	-		
(6)	2	9'-0"	7'-0"	1 3/4"	SECT.	VINYL	-	-	INSULATED	



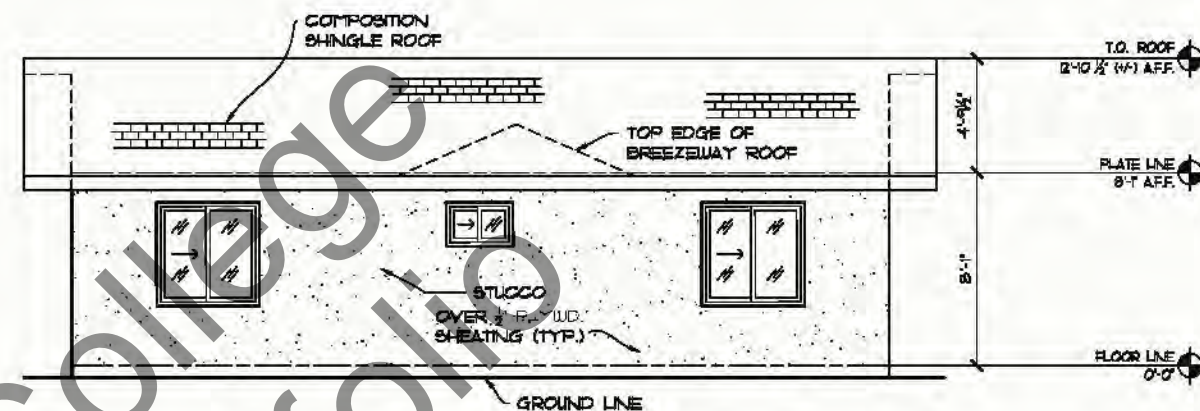
CABIN & GARAGE FLOOR PLANS
SCALE: 1/4"=1'-0"



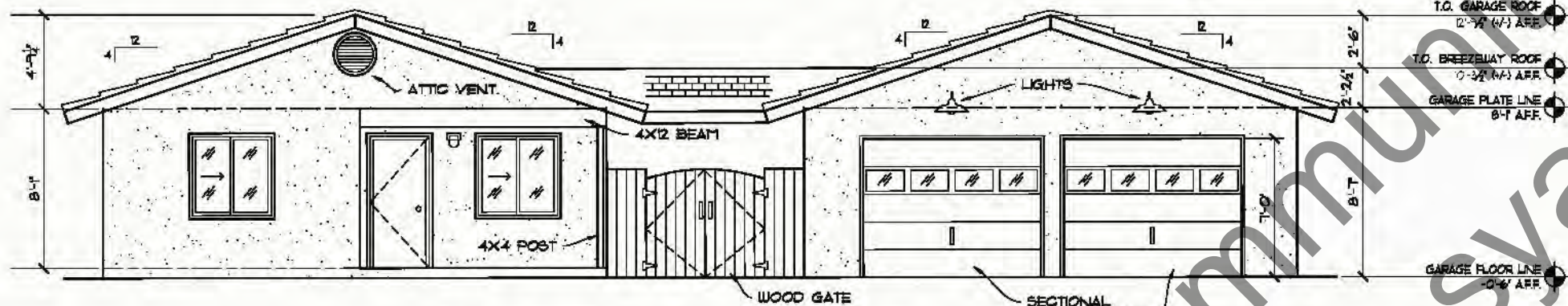
NOTE
BUILDING SEPARATIONS ARE
NOT POSITIONED AS WOULD
BE ON THE LOT.



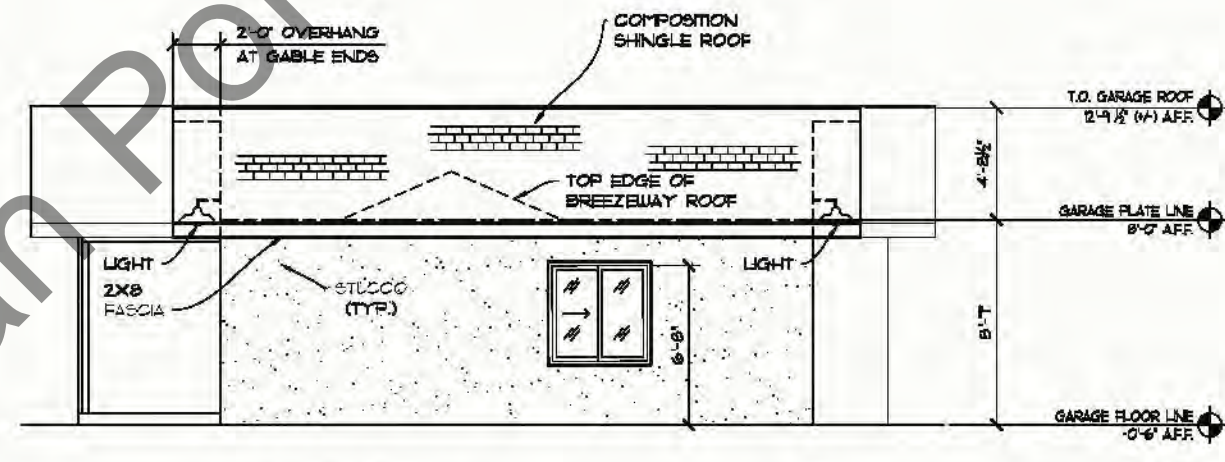
NORTH ELEVATION
SCALE 1/4" = 1'-0"



WEST ELEVATION
SCALE 1/4" = 1'-0"

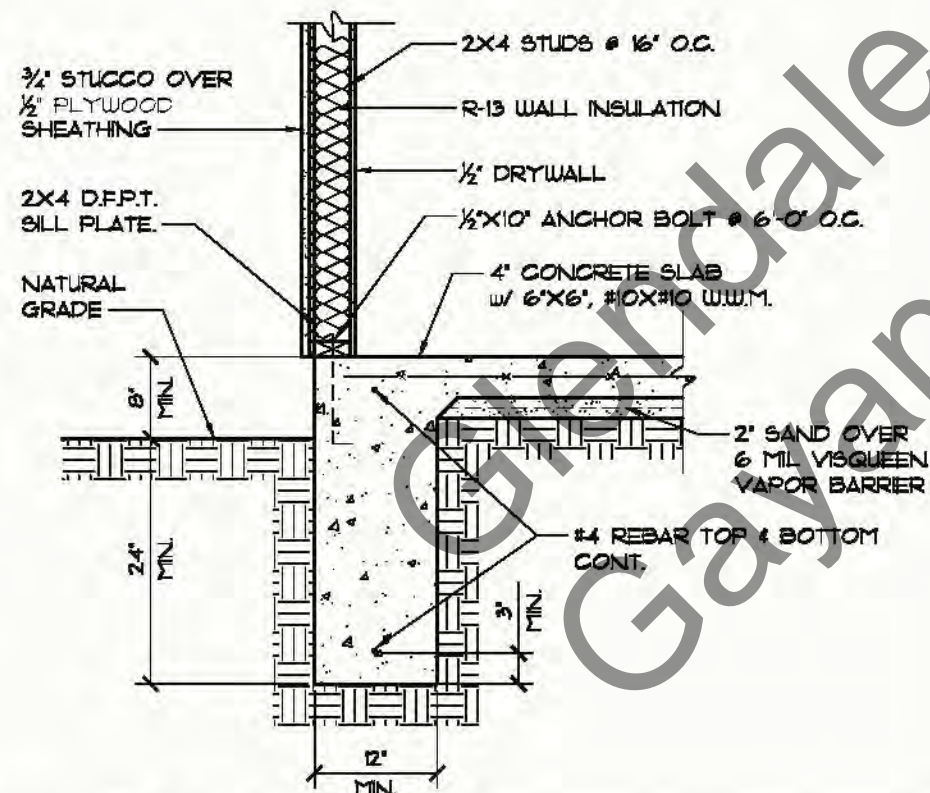


SOUTH ELEVATION
SCALE 1/4" = 1'-0"

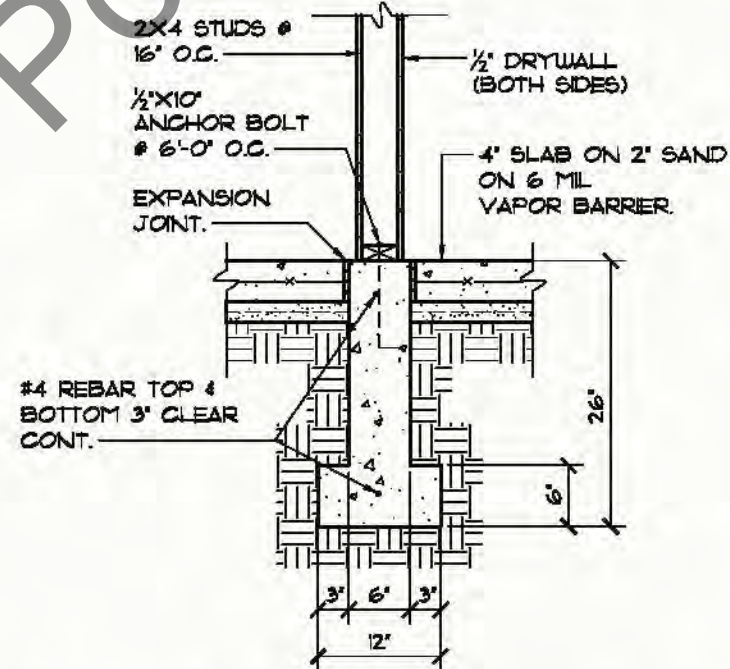


EAST ELEVATION
SCALE 1/4" = 1'-0"

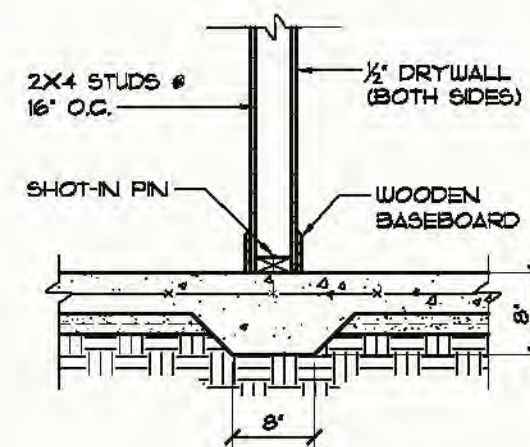
FOOTERS



A-1 EXTERIOR BEARING FOOTER
SCALE 1/4" = 1'-0"



B-1 INTERIOR BEARING FOOTER
SCALE 1/4" = 1'-0"



C-1 INT. NON-BEARING FOOTER
SCALE 1/4" = 1'-0"