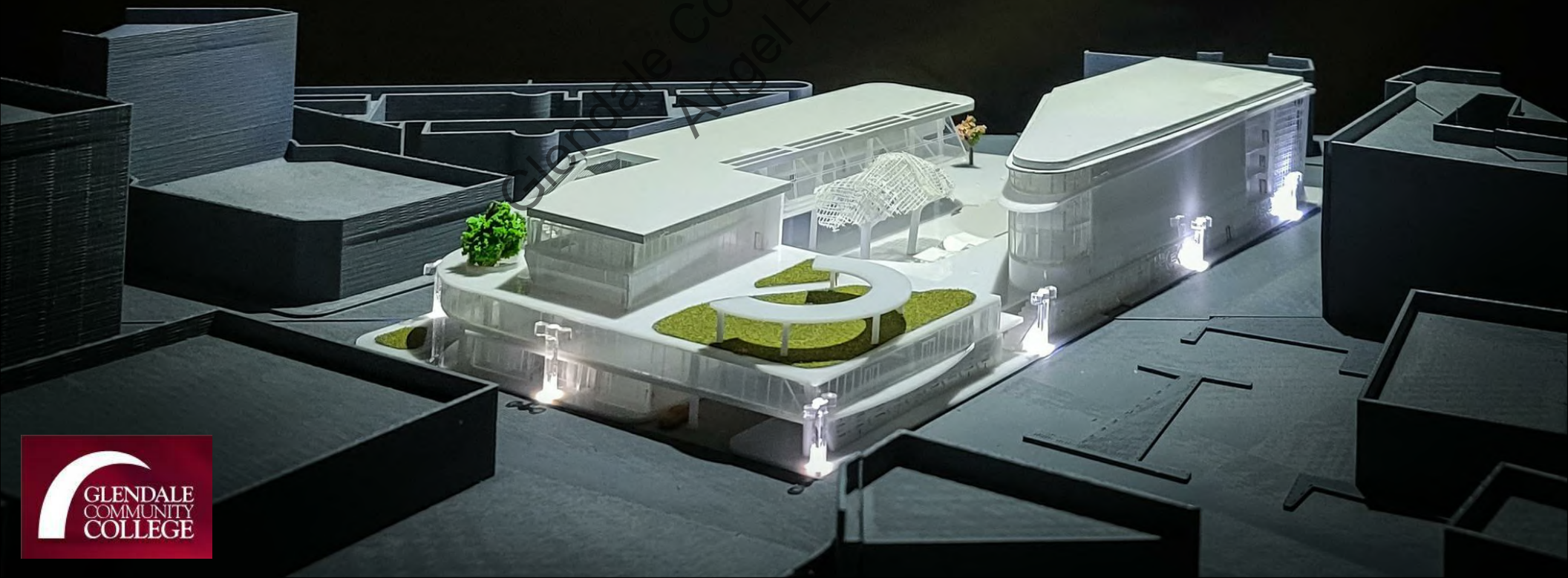


# ANGEL ESPARZA

2018 - 2021

ARCHITECTURE PORTFOLIO



# SKILLS



REVIT



AUTOCAD



RHINOCEROS



3DS MAX



SOLIDWORKS



SKETCHUP

2



TWINMOTION



PHOTOSHOP



3D PRINTING



LASER CUTTING



MODEL MAKING



SKETCH & DRAWING

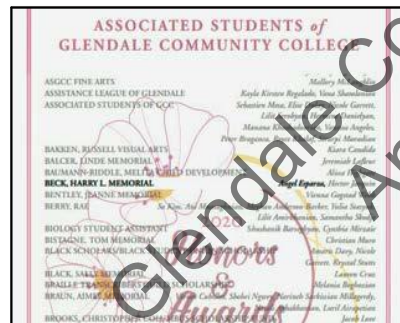
# ACHIEVEMENTS



WUHO GALLERY EXHIBITION 2019.



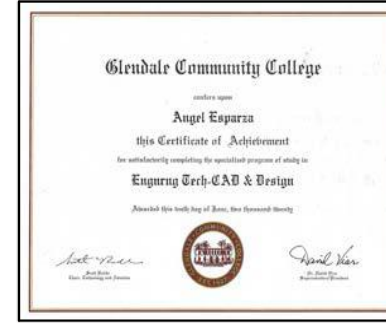
WUHO GALLERY EXHIBITION 2020.



GCC AWARD/  
SCHOLARSHIP 2020.  
AWARD \$500.00



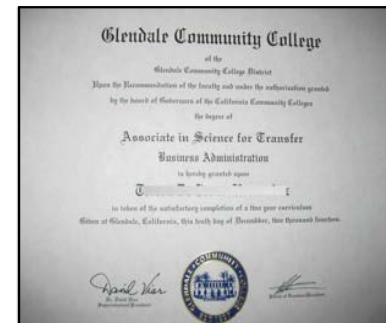
SKILL AWARD  
ENGINEERING  
TECHNOLOGY - CAD &  
DESIGN DRAFTING  
2020.



ENGINEERING  
TECHNOLOGY - CAD &  
DESIGN DRAFTING  
CERTIFICATE 2020



CCCAP STUDENT  
DESIGN COMPETITION  
2020.  
FIRST PLACE  
CERTIFICATE.  
AWARD \$500.00



ASSOCIATE IN  
SCIENCE DEGREE  
ARCHITECTURAL  
DRAFTING AND  
DESIGN 2021.



GLENDALE  
COMMUNITY COLLEGE  
STAYING CONNECTED  
PAGE RECOGNITION

SCAN ME

# CONTENTS



CCCAP STUDENT COMPETITION  
**Youth Hostel, Elk Island National Park**

Page 4 - 29



RESIDENTIAL ARCHITECTURE DESIGN 1  
**Photographer Artis House Design**

Page 30 - 41



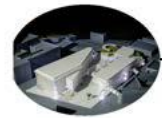
RESIDENTIAL ARCHITECTURE DESIGN 1  
**Case Study Fitzpatrick-Leland House Design**

Page 42 - 51



COMMERCIAL ARCHITECTURE DESIGN 2  
**Mix-Use Building, MaCarthur Park Project**

Page 52 - 67



COMMERCIAL ARCHITECTURE DESIGN 1  
**Mix-use Building, Little Tokyo Project**

Page 68 - 81



RESIDENTIAL ARCHITECTURE DESIGN 2  
**Birdbox Garden Senior House Design**

Page 82 - 95



ADVANCE REVIT PARKING STRUCTURE  
**Santa Monica Civic Center Parking Structure**

Page 96 - 109



COMMERCIAL ARCHITECTURE DESIGN 1  
**Case Study Mix-use Building Prism Design**

Page 110 - 123



REVIT PRACTICE WORK & ART

Page 124 - 126



GCC MOMENTS

Page 127 - 132



Student Design Competition 2020



Night winter view, pointing to the north side of the northern lights, and a view of the TROMBE WALL, pointing to the south side.

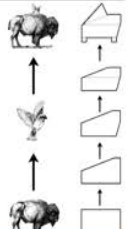
DESIGN STATEMENT

Using animals to represent two seasons of the year. For instance, the Bison for winter and the wing of Cowbird for summer, combining its origin to generate the shape of the buildings.

CONCEPT WINTER DEVELOPMENT

The elemental concept is to develop and to mimic a Bison in winter form. This project was inspired by the "American Wood Bison", which Elk Island National Park strives to maintain an extreme balance to also the extinction of this animal. As a symmetrical design, adapting to the popular wildlife image in one of the different migratory birds of this region, that enhance the Canadian territory and come into contact with the migration of the Bison. One of them is the bird called "Cowbird", riding on its back and that feeding between the accounts of the Bison skin. The Bison and Cowbird have a dimer relationship, in which Cowbirds benefit from bison activities and bison are not disturbed or harmed by the presence of this birds.

Developing data and using the concept for this design, extend the problem by visualizing the figure of a bison to construct the main structure that would form the walls and ceiling support. Using the structure of the bird's wing, allows to proclaim a silhouette capable of covering the bison structure. This strategy forms the head of buildings on the side and get involve it among the natural history of the region.



Winter Nights view walking across the cabin bridges pointing to north side. Winter day cabin view pointing to north side.



STRUCTURE BUILDING PASSIVE FORM

**THERMO-FIBERGLASS/TROMBE WALL**  
The inclination of the wall produces the direct encounter with the sun rays absorbing thermal heat by radiating the wall surface parallel to it, and producing a warm atmosphere on the other side of the wall. This wall or thermal layer provides the absorption of heat and reflection of the environment, this example designed to reflect the bright northern lights and give the viewer better experience. The sun-facing wall is separate from the other outside wall, making the heat flow via air convection into the building interior, also heating the external area as in heat the floor and bed used by the guest.



ELEVATION

The proposed elevation for this design was calculated to have an elevated view around and protect the visitors in times of snow, as well as better access and displacement between the hostel area, however, long bridges were designed at the height of 2'6" limit with their respective ramps for continuous access throughout the hostel buildings and cabins providing that the visitor have no any obstruction from the slope.

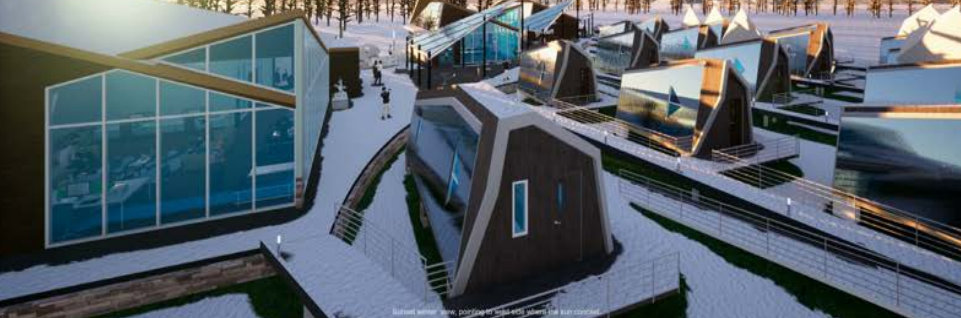
FIBER/CONCRETE FLOOR

An insulated high-performance concrete floor with fiber composition has the proposition of certain longer period of heat or cold over the surface when is heat or cold is projected on this. This floor maintains a neutral surface depending on the season of the year.



SECTION A

1. On the 21st December, the sun will rise 55° east of due south and set 55° west of the south.  
2. On the 21st March/21st September, the sun will rise 91° east of due south and set 91° west of due south.  
3. On the 21st June, the sun will rise 129° east of due south and set 129° west of due south.



CONCEPT SUMMER DESCRIPTION

The wing of the Cowbird represents summer season, when the birds are in full wing to interact with the Bison. Having the wing open exhibit the bird in maximum comfort mimicking the shape of a bird on top of the Bison. Cabin Bison is designed to give the visitor a spectacular appreciation of the environment to the visitor and interact in open space with the nature when the wing is fully open. Visitors can take a more perfect view of the beauty that his hostplace hostel offers, by making the visitor pass through the hostel until the main entry building.

**CABIN MECHANICAL FUNCTION DESCRIPTION**  
Visitor are able to open a mechanical top wing shade, and thermal wall cover that is designed with a mechanical system to open side down and blend it with the deck support in this cabin. As well as designed with a folding sliding glass doors to provide an open space. Incline angle for the sky window is a concept to provide stay light into the cabin and appreciate the beauty view of the night, particularly the famous northern lights.

**SOLAR CELL (solar panel)**  
The installation of solar cells/panels on the angular triangular pergola, was related to provide power of no cost. These solar cells/panels will provide managed power in the master/mechanical room supporting main rooms and buildings.

**ROOF/EXTEND SHADE SYSTEM**  
The installation of solar cells/panels on a wood panel product made from gluing together layers of solid-sawn Lumber, i.e. Lumber from a single log, is a large-scale, prefabricated, solid engineered wood panel. Lightweight yet very strong, with superior acoustic, fire, seismic, and thermal performance, is also fast and easy to install, generating almost no waste on-site.



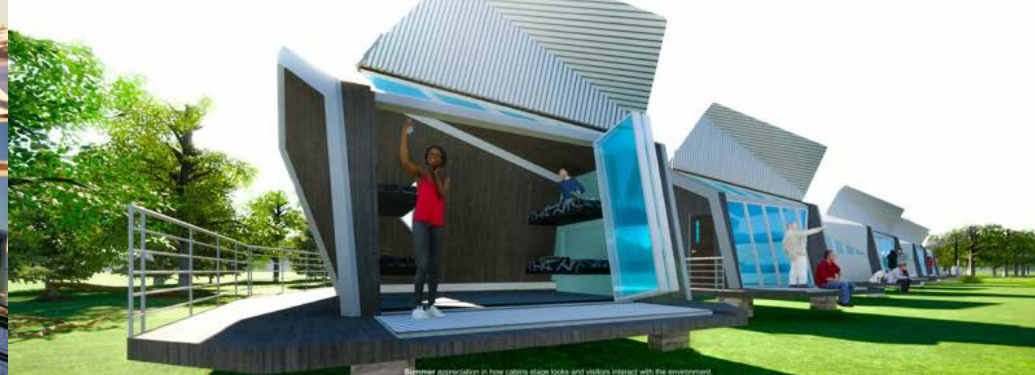
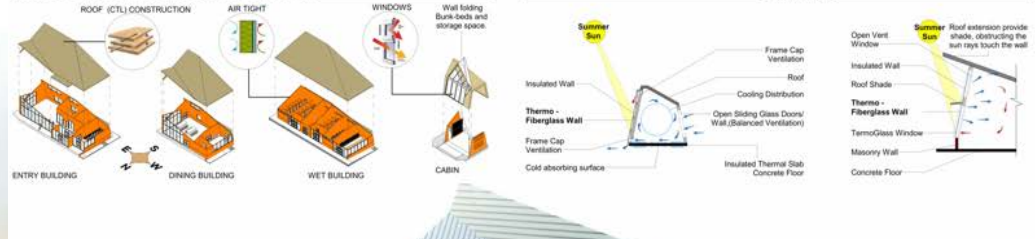
SOUTH ELEVATION SCALE: 1/16" = 1'-0"



NORTH ELEVATION SCALE: 1/16" = 1'-0"



EXTRUDED DIAGRAM/PASSIVE BUILDING PRINCIPLES



Summer appreciation in how cabins stage looks and visitors interact with the environment.



Coalition of Community College Architecture Programs, Inc.

## News Release:

August 1, 2020

From: Coalition of Community College Architecture Programs  
To: Directors of AIA California and AIA Los Angeles  
Re: Local winners of CCCAP Student Design Competition 2020

### **Congratulations to Glendale Community College student, Angel Esparza, for winning the FIRST Place Design Award from CCCAP Student Design Competition 2020.**

An amazing design was created by Angel for a YOUTH HOSTEL in Elk Island National Park in Alberta, Canada.

The design solutions are attached. It is imaginative and observant to many sustainable requirements. Paul Chiu was faculty advisor from Glendale Community College. Here are some of the jury comments:

*We are inspired by the experiential elements particularly as depicted in the renderings across seasons and across times of day. The perspective renderings are effective and compelling in exploring the presence of the architecture in conditions of daytime, nighttime, summer and winter. Technical performance aspects of the project are convincingly addressed. Bison and Cowbird has a level of complexity, playfulness and aesthetic quality. The drawings promise the architecture will reflect the landscape and sky. As a herd, the dwellings waver between appearing as a collection of objects on the land, and appearing as a unified reflection of the landscape and light in the manner of a land art project.*

Open to first- and second-year architecture students, this year's competition attracted over 100 students from 15 community college architecture programs in 10 states. The program called for students to design a hostel for young people that would accommodate a variety of groups who came to enjoy the National Park. The site was a rugged setting in northern Canada.

The student's design was to create a sense of community, uniqueness and imagination through light, scale, form and materials. Designs also were to demonstrate a responsible relationship with the environment through the use of sustainable and recycled materials and alternative energy sources.

The CCCAP is a professional organization of educators dedicated to promoting the value of the Architecture Programs in community colleges and to providing an alternative pathway to the architectural profession. As a non-profit organization, its' goal is to empower students to pursue their career and academic goals in the field of architecture and the built environment today and in the future.

The CCCAP is committed to establish transfer/articulation agreements between Architecture Programs in community colleges and schools of architecture, to increase the racial, gender, cultural, and socio-economic diversity within the architectural profession, and to lead dialogue, share best practices, and collaborate as a network among Architecture Programs in community colleges and architectural academic and accreditation institutions.

The competition was coordinated by Jane Ostergaard AIA, Architecture and Construction Management Coordinator at College of DuPage [IL], Betsy Masters AIA, Architecture Coordinator at Community College of Philadelphia [PA], and Christine Marriott PhD AIA, Chairperson Architecture + Design at Wright Community College [IL.]

The projects were judged by Carl Elefante FAIA, Quinn Evans Architects, Washington DC, MD, Rashida Ng AIA, Dean Temple University School of Architecture, Philadelphia, PA, and Rebecca O'Neill-Dagg AIA, professor Auburn University School of Architecture, Auburn, AL.

For future information, please contact Randy Steiner, AIA, at [cccap2013@gmail.com](mailto:cccap2013@gmail.com) or the CCCAP website at [www.cccap.org](http://www.cccap.org).

## PROJECT INFORMATION, SITE INFORMATION & OBJECTIVES



The Coalition of Community College Architecture Programs or “CCCAP” is an alliance of the 120+ community college architecture programs in the US which offer Associate Degrees. Created in 2012, the CCCAP became a 501 (c)(3) nonprofit association in 2014. This confederation of faculty members, deans, chairpersons, students, architects, related professionals and industry leaders supports the diverse population of community college architecture programs. It serves as a forum for members to share research, best practices, and curricular content.

Members of the CCCAP have access to the data bank of community college data and pedagogical content. Members also have reduced rates for the annual conference and the student design competition. The organization supports research grant initiatives, faculty awards, and acts as a liaison to professional and other academic organizations.

### THE PROJECT

A Youth Hostel for Elk Island National Park

The site is approximately 27 miles east of Edmonton which is in the province of Alberta in Canada.

Latitude: 53°34'43.9"N  
Longitude: 112°50'01.9"W

6

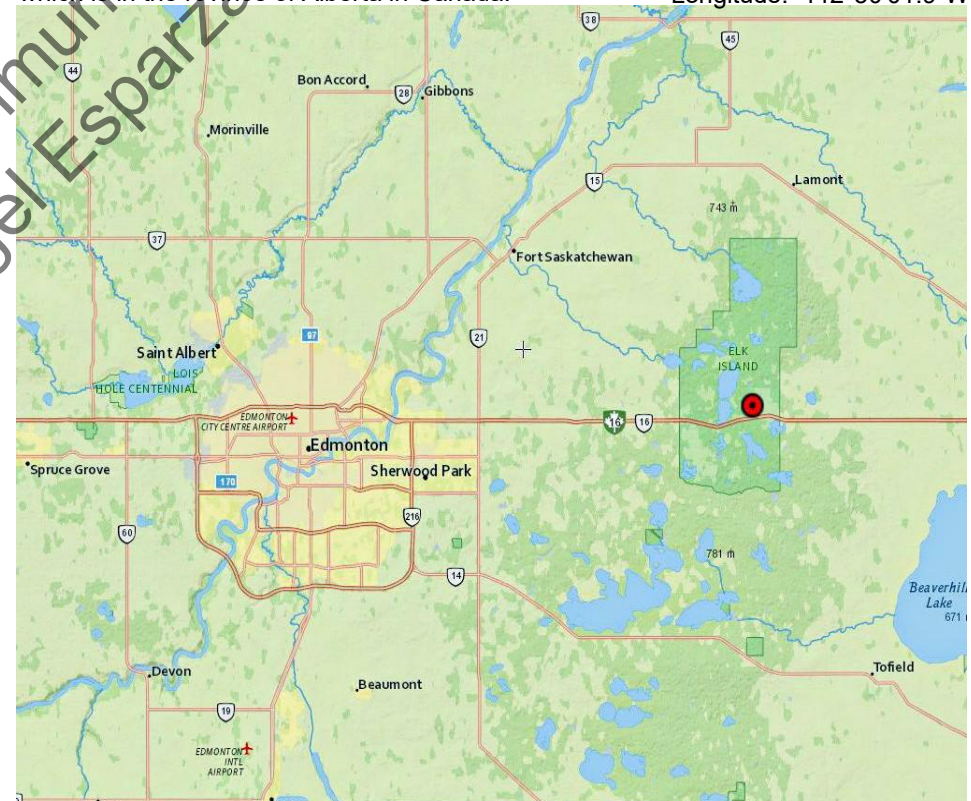
### SITE

The approximately 1.5-acre site is located in Elk Island National Park in Alberta, Canada. The park is a year-round destination for both local residents and visitors. It is noted for its view of the Northern Lights as well as a wildlife haven that is home to a diverse group of animals and over 250 species of birds. It is the only National Park which maintains herds of both Wood Bison and Plains Bison, the two subspecies of North American Bison. The park offers a wide range of activities for visitors including over 50 miles of trails for hiking, and cross-country skiing, ice skating or snowshoeing in the winter and an abundance of lakes for canoeing and kayaking or swimming in the summer. The hostel site is located in the wooded area east of the visitor center.

### OBJECTIVES

This project explores the diversity of northern plains flora and fauna. The spaces should convey an architectural statement reflecting the significances of the surrounding environment and cultural heritage of the region. It must incorporate sustainable materials and alternative energy sources.

The building and exterior spaces are to demonstrate the highest degree possible the ability of architecture to respond to the unique needs of the users and context.



## PROGRAMMATIC REQUIREMENTS & SITE

Entry Vestibule.....	120 sf
Lobby/Reception.....	300 sf
Common Room (with computer stations).....	1,000 sf
Exterior Patio.....	1,300 sf
Dining Room.....	1,300 sf
Kitchen (2 stoves, 2 microwaves, 2 refrigerators and 2 sinks) .....	400 sf
Kitchen Storage.....	100 sf
Laundry (4 washers, 4 dryers and 2 - 12' tables).....	600 sf
Guest Rooms (100 sf each - 20 rooms with storage in unit for 4 guests) ...	2,000 sf
Toilet Room (2 @ 450 sf each -10 toilets and lavatories) .....	900 sf
Shower Room (2 @ 400 sf each - 2 rooms with 10 showers/changing) .....	800 sf
Janitor's Closet.....	30 sf

Administrator Apartment with separate exterior access	
Living/Dining Room/Kitchen.....	250 sf
Bedroom.....	20 sf
Bath.....	40 sf
Staff Office.....	150 sf
Staff Meeting Room .....	150 sf
Luggage Storage .....	200 sf
Storage for Bikes and Exterior Recreational Equipment with direct exterior access .....	400 sf
Mechanical/Electrical Space .....	400 sf
Parking for 20 vehicles with access to road north of site .....	sf as required

Main Road

Site Boundary  
(one vehicle access lane  
location determined by  
designer)

Existing Visitors' Center

Access Road



## DESIGN STATEMENT

Using animals to represent two seasons of the year; For instance, the **Bison for winter** and **the wing of Cowbird for summer**, combining as origin to generate the shape of the buildings.

The design and concept are inspired by two species of animals that live in the Canadian region, of which are the American wood bison and the brown-headed Cowbird. This design is intended to combine these two animals, forming them into a single structure. In the same way, the concept collaborates with two specific seasons of the year, since in this region most of the year there are cold wheatear temperatures like in winter, and the heat section arrives in summer. The ideal way was to simulate the bison for the winter and the cowbird for the summer. Particularly in the cold winter season, the bison generally proclaims a thick skin and a wide coat, keeping the bison in warm temperature and protected from the low temperatures of the cold. Consequently, simulating a bison-shaped structure allowed to obtain the frame of this animal, obtaining the appearance of the bison and using a thermal wall simulating its skin. The 12-degree inclined angle thermal wall was integrated into parallel over the main bison shaped structural wall. Space between these walls combines the operation of airflow transport and thermal solar heat radiation, to heat the interior area of the room. The sun's rays and air circulation between the walls are used to heat the interior room area. In summer, to cool the area, the sliding doors can simply be opened to let the air circulation cool the areas and cancel the air circulation between the thermal wall with mechanical cap integrated into this design, allowing the area to cool. This wall is placed in the main buildings and the designed cabins. In addition, a high-performance insulated concrete floor with fiber composition was integrated into this design and provides a longer period of hot or cold on the surface, depending on the weather season. However, the Cowbird wing was proclaimed to represents summer. Generally, at the summer season time of year, these birds tend to have greater interaction with the bison. Since the climate is warmer and beneficial for the migration of these birds over the Canadian territory. The Cowbird generally stands on the bison's back and feeds on insects or debris from the bison in its fur, which is why it took the figure of a bison and a bird on top. This bird's wing was simulated as the shape of a mechanical system, placed on top of the bison's simulated structure. This wing can cover and protect against weather problems in the simulated bison structure. When the mechanical wing is opened, it allows us to give a spectacle to the visitor and to have a broad vision of what nature can offer, either day or night. The combination of these structures defines the mimicry of the bison and the bird. finally, considering that the herd of bison is always in a group and they walk in the same direction. These cabins were placed in reference to the anatomical structure form of the cowbird open wing.



Glendale Community College  
Angel Esparza

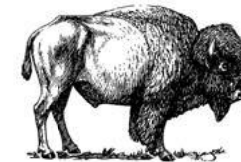
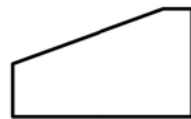
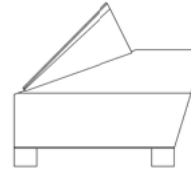
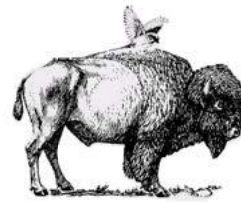
## CONCEPT WINTER DESCRIPTION

The elemental concept is to develop and to mimic a Bison in winter form. This project was inspired by the "American Wood Bison", of which Elk Island National Park strives to maintain an extreme balance to stop the extinction of this animal. As a symmetry of this design, adapting to the popular variable image in one of the different migratory birds of this region, that enchant the Canadian territory and come into contact with the interaction of the Bison. One of them is the bird called "Cowbird", riding on its back and thus feeding between the accents of the Bison skin. The Bison and Cowbird have a diner relationship, in which Cowbirds benefit from bison activities and bison are not disturb or harmed by the presence of this birds.

Developing data and using the concept for this design, intend the posture by simulating the figure of a bison to construct the main structure that would form the walls and ceiling support. Using the structure of the bird's wing, allows to proclaim a silhouette capable of covering the bison structure. This strategy forms the herd of buildings on the side and get involve it among the natural history of the region.

10

Glendale Community College  
Angel Esparza





Winter day cabin view pointing to north side

## STRUCTURE BUILDING PASSIVE FORM

### **Thermo-Fiberglass/Tromer Wall**

The inclination of this wall produces the direct encounter with the sun rays absorbing thermal heat by radiating the wall surface parallel to it, and producing a warm atmosphere on the other side of the wall. This wall or thermal layer provides the absorption of heat and reflection of the environment, this example designed to reflect the bright northern lights and give the viewer better experience. This sun-facing wall is separate from the other outside wall, making the heat flow via air convection into the building interiors; also, it heats the internal area as in itself the floor and beds used by the guest.

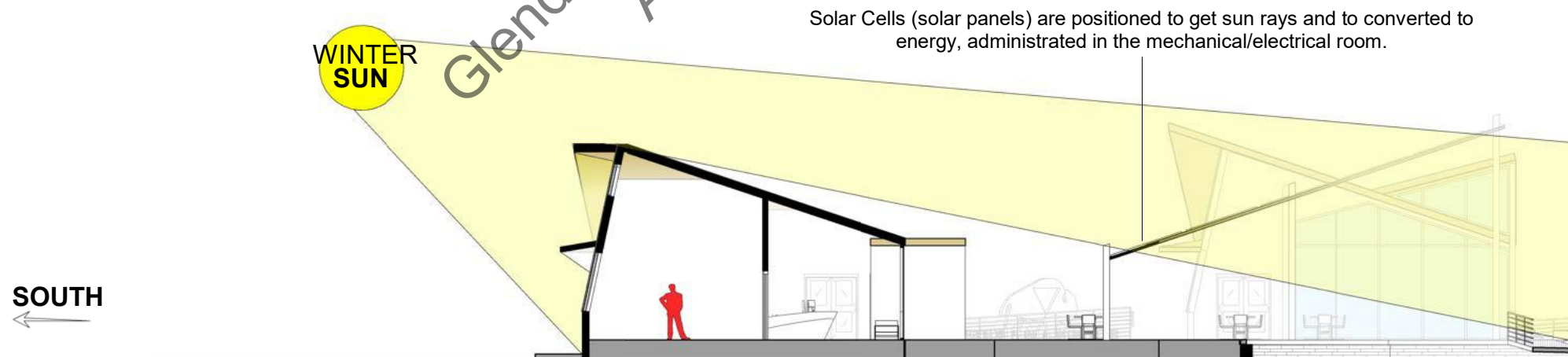
### **Elevation**

The proposed elevation for this design was calculated to have an elevated view around and protect the visitors in times of snow, as well as better access and displacement between the hostel area; however, long bridges were designed at the height of 2'6" limit with their respective ramps for continuous access throughout the hostel buildings and cabins providing that the visitor have no any obstruction from the snow.

### **Fiber/Concrete Floor**

An insulated high-performance concrete floor with fiber composition has the proposition of contain longer period of heat or cold over the surface when is heat or cold is projected on this. This floor maintains a neutral surface depending on the season of the year.

12



Exterior Wood Sheathing

**Thermo-Fiberglass/Trombe wall, Reflecting Surface Dark Color**

Sheathing Plywood

Insulation/Foam

Sheathing Plywood

Stud

Interior Deco. Wood

Steel Beam

Masonry Foundation Base

Concrete Slab/concrete fibers

Weather Drain Protection

Shear Stud

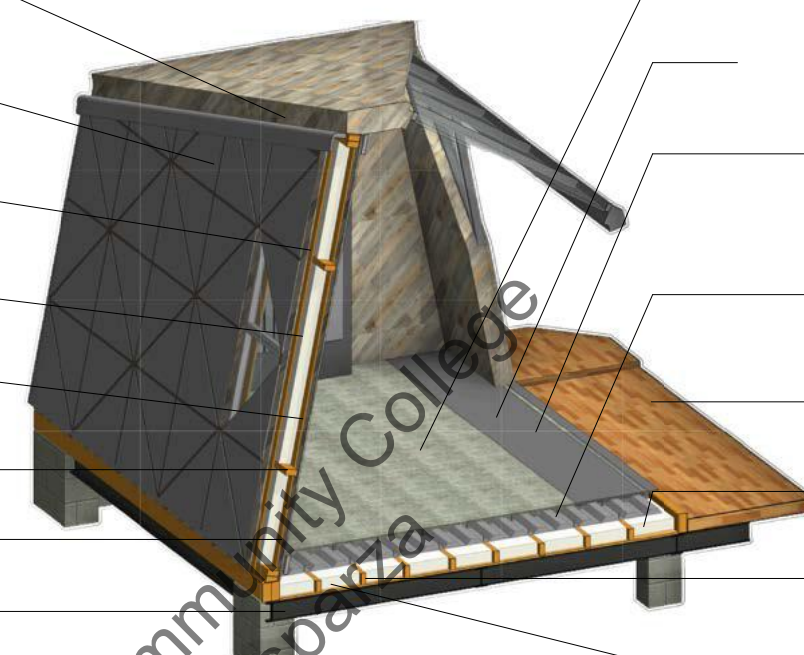
Metal Deck/Sheet

Exterior Wood Deck

Base Board/Plywood

Stud support

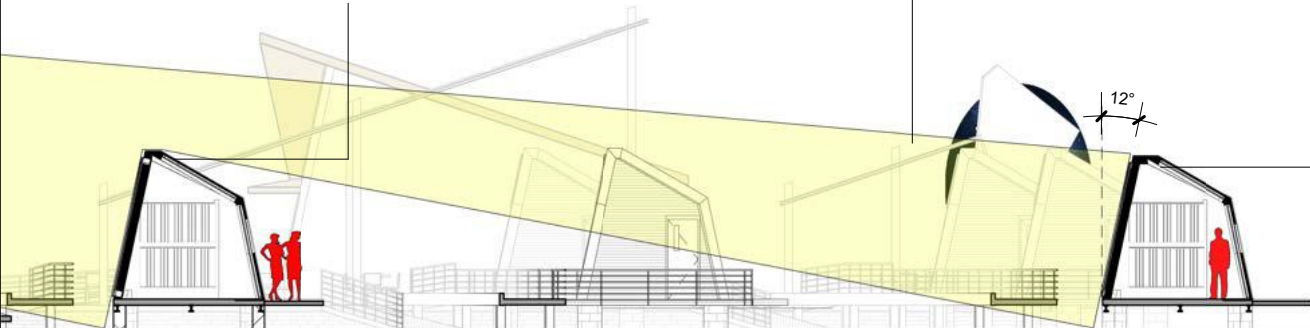
Insulation/foam



All the buildings and cabins with inclined surface allow direct view toward the north side and northern lights

No obstruction sun-light between cabins

The inclined surface system and accessible sliding doors, allow to maximize the view

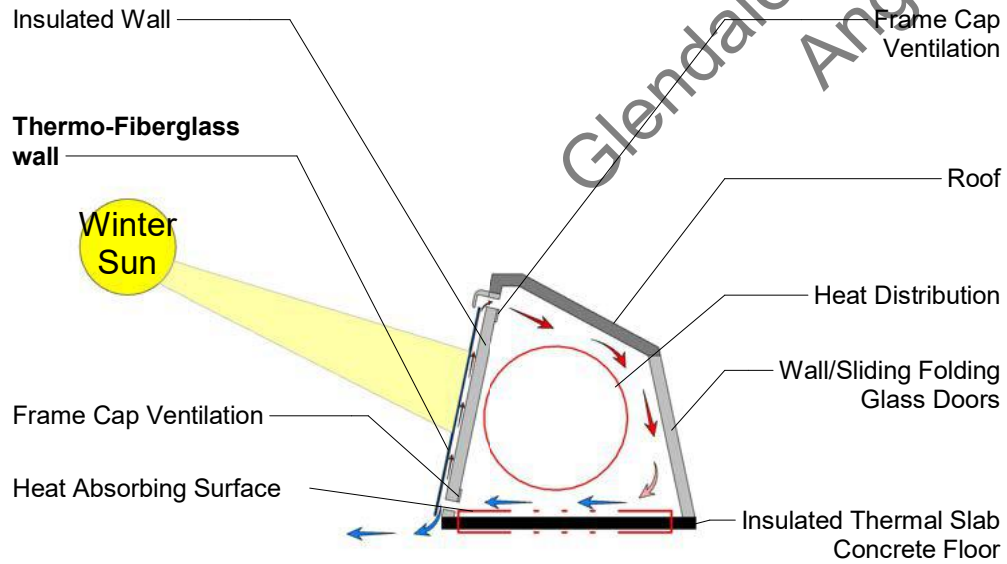


**NORTH**  
→

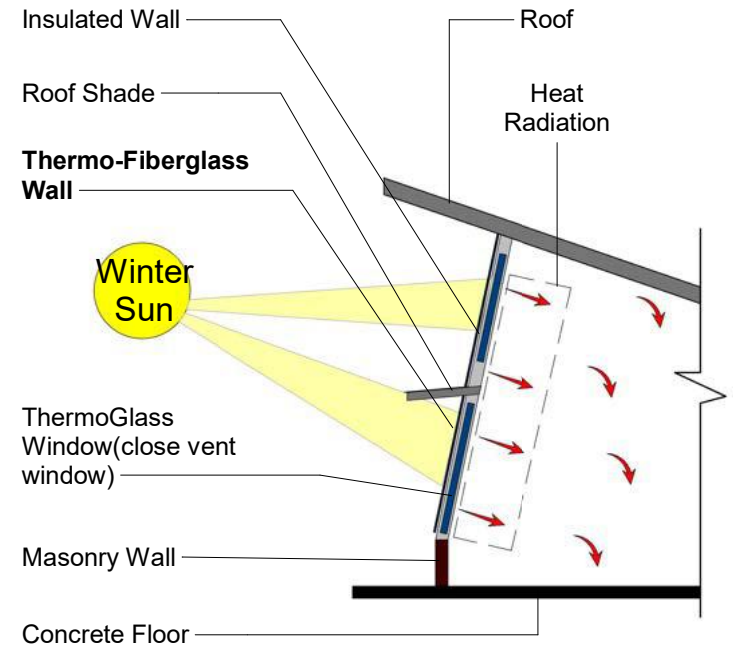
# Winter

14

## Thermal Heat Air Flow



## Thermal Heat Radiation





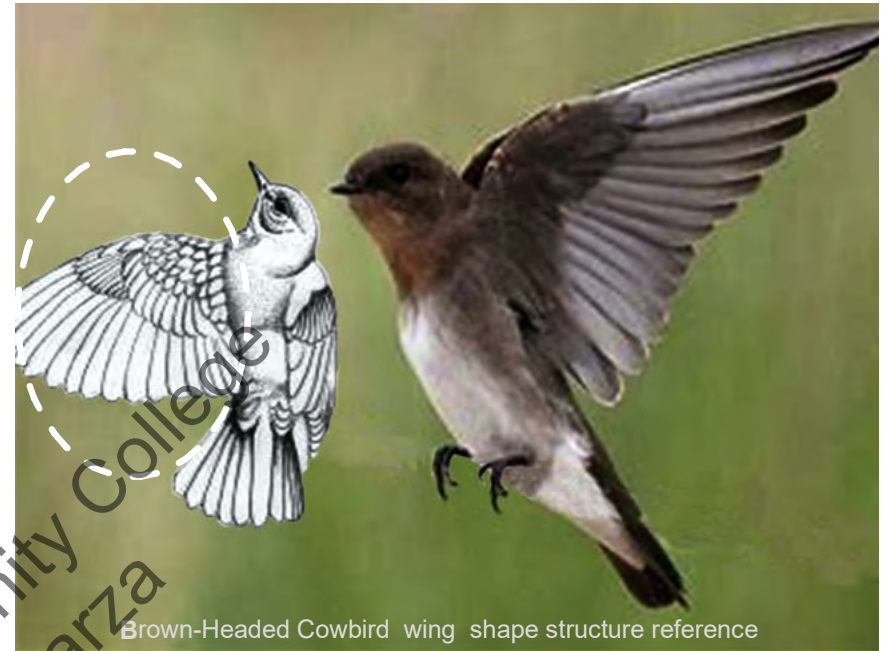
Render of the interior cabin on a night view

## CONCEPT SUMMER DESCRIPTION

The wing of the Cowbird represents summer season, when the birds are in full swing to interact with the Bison. Having the wing open exhibit the bird in maximum comfort mimicking the shape of a bird on top of the Bison. Cabin Bison is designed to provide a spectacular appreciation of the environment to the visitor and interact in open space with the nature when the wing is fully open.

Visitors can take a more perfect view of the beauty that this hospitable hostel offers, by making the visitor pass through the hostel until the main entry building.

Visitors are able to open a mechanical top wing shade, and frontal wall cover that is designed with a mechanical system to open side down and blend it with the deck support in this cabins. As well is designed with a folding sliding glass doors to provide an open space. Incline angle for the sky window is a concept to provide day light into the cabin and appreciate the beauty view of the night, particularly the famous northern lights.



Brown-Headed Cowbird wing shape structure reference



Artificial illumination on bridges and building, during the night, view pointing from east side.

### **Solar Cell (solar panel)**

The installation of solar cells/panels on the angular triangular pergola, was raised to provide power at no cost. These solar cells/panels will provide managed power in the maintenance/electrical room supporting main rooms and buildings.

### **Roof/Extend Shade System**

(CTL)Cross-laminated timber is a wood panel product made from gluing together layers of solid-sawn lumber, i.e., lumber cut from a single log. is a large-scale, prefabricated, solid engineered wood panel. Lightweight yet very strong, with superior acoustic, fire, seismic, and thermal performance, is also fast and easy to install, generating almost no waste onsite.

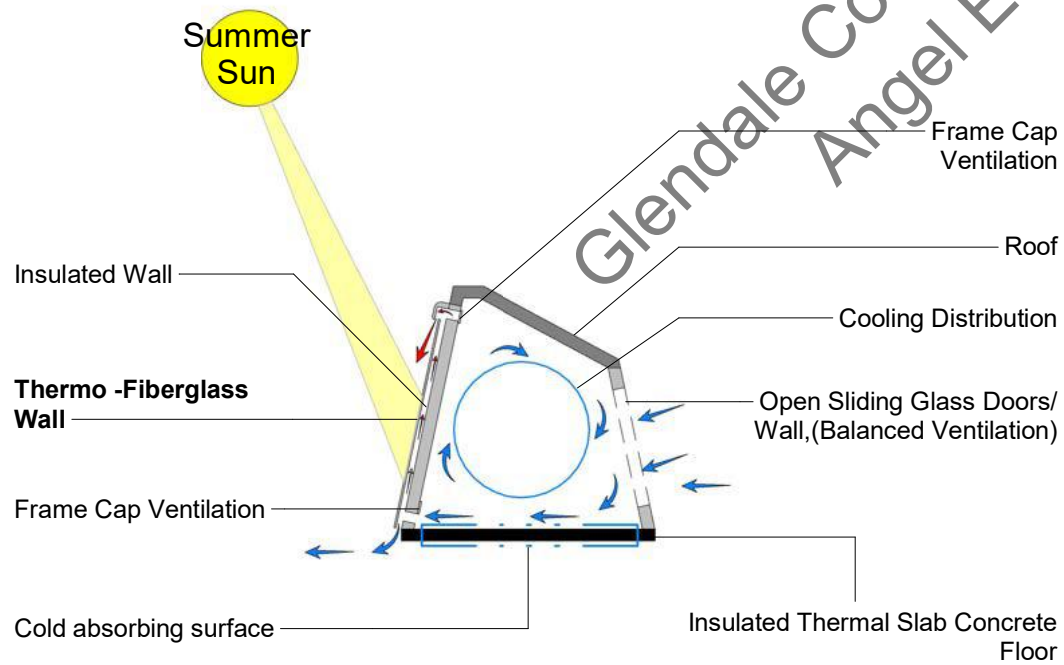
Render produced in Twimotion of open wing of cabins



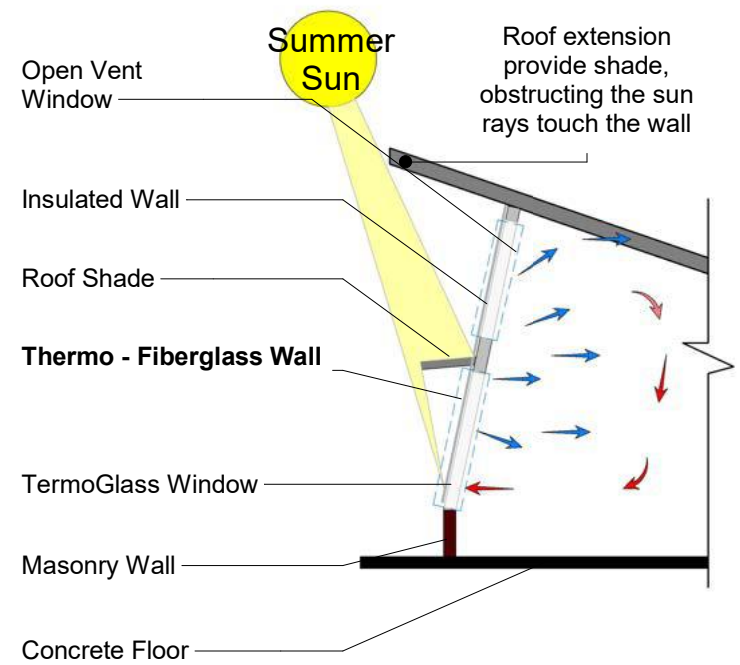
# Summer

18

### Cooling Air Flow



### Cooling Air Flow/ Roof Shade System

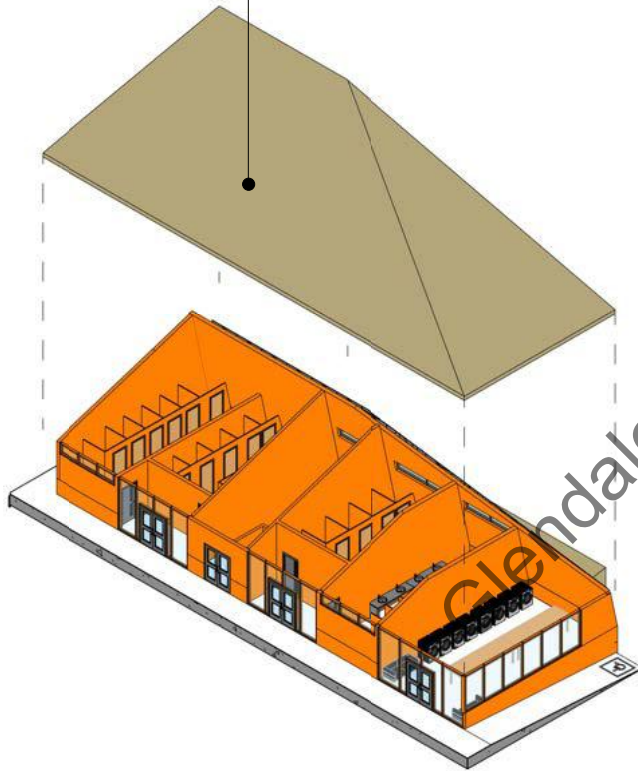




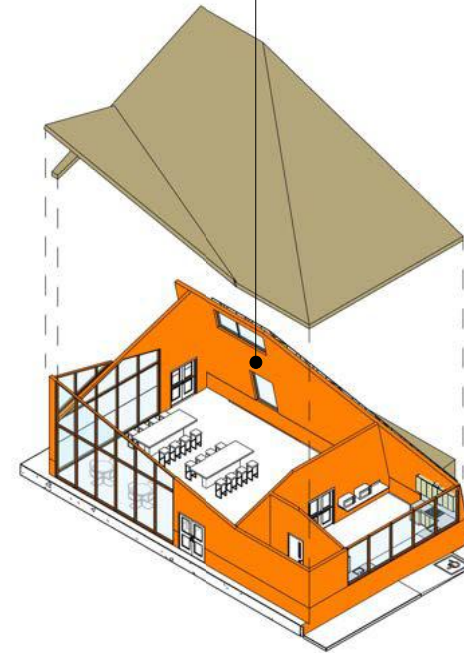
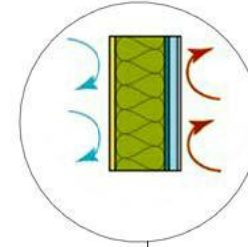
Artificial illumination on bridges and building, during the night, view pointing from east side.

# EXTRUDED DIAGRAM/PASSIVE BUILDING PRINCIPLES

Roof (CTL) Construction



Air Tight



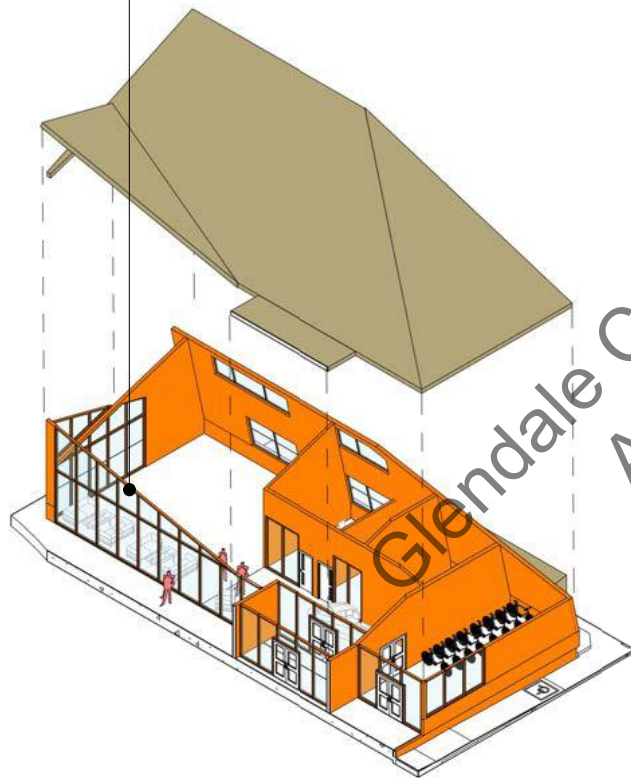
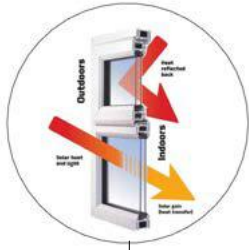
20

Wet Building

Dining Building

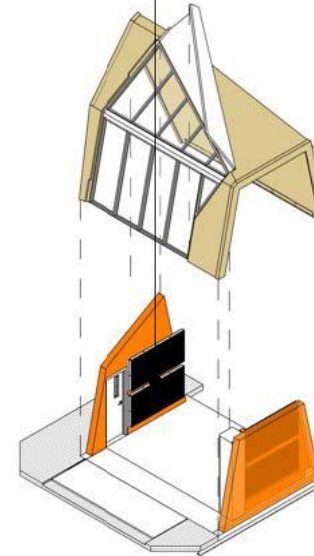
Clemdale Community College  
Angel Esparza

Windows



Entry Building

Wall Folding Bunk-Beds and Storage Space



Cabin

Glendale Community College  
Angel Esparza

# FLOOR PLAN INFO & SITE VIEW

## ENTRY BUILDING

1. ENTRY VESTIBULE
2. LOBBY / RECEPTION
3. COMMON ROOM
4. STAFF MEETING ROOM
5. STAFF OFFICE
6. LUGGAGE STORAGE
7. BIKE STORAGE

## CABIN & EXTERIOR

18. ADMINISTRATOR APARTMENT
19. GUEST ROOM(CABIN)
20. PARKING STAFF SPACE
21. PARKING GUEST SPACE
22. DECK / EXTERIOR PATIO
25. PARK BISON LOGO
- ACCESS RAMP
- CIRCULATION

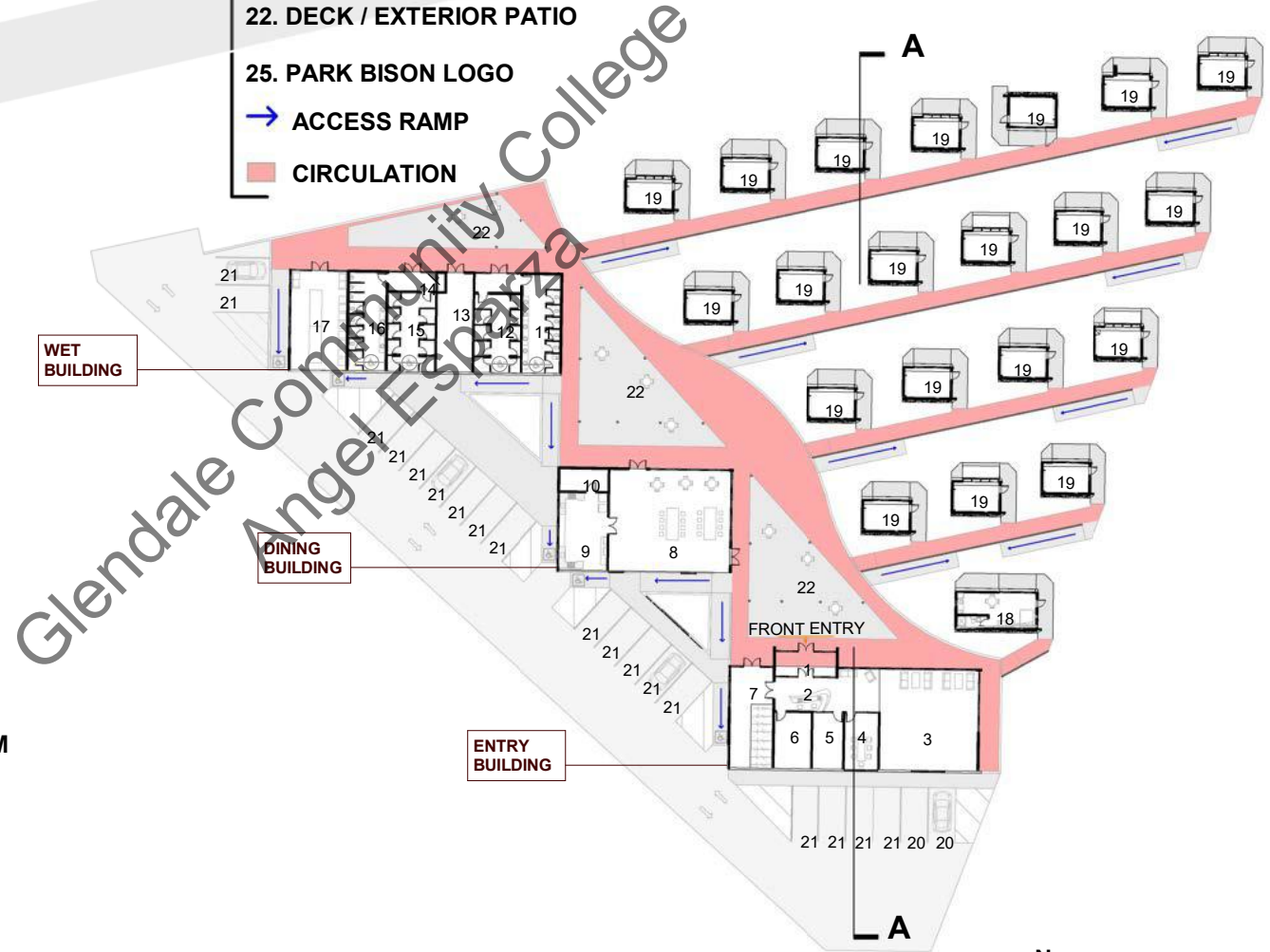
## DINING BUILDING

8. DINING ROOM
9. KITCHEN
10. KITCHEN STORAGE

## WET BUILDING

11. W. RESTROOM
12. W. SHOWERS
13. MER/ELECTRICAL ROOM
14. JANITOR'S CLOSET
15. M. SHOWERS
16. M. RESTROOMS
17. LAUNDRY

22



Ground Floor Plan

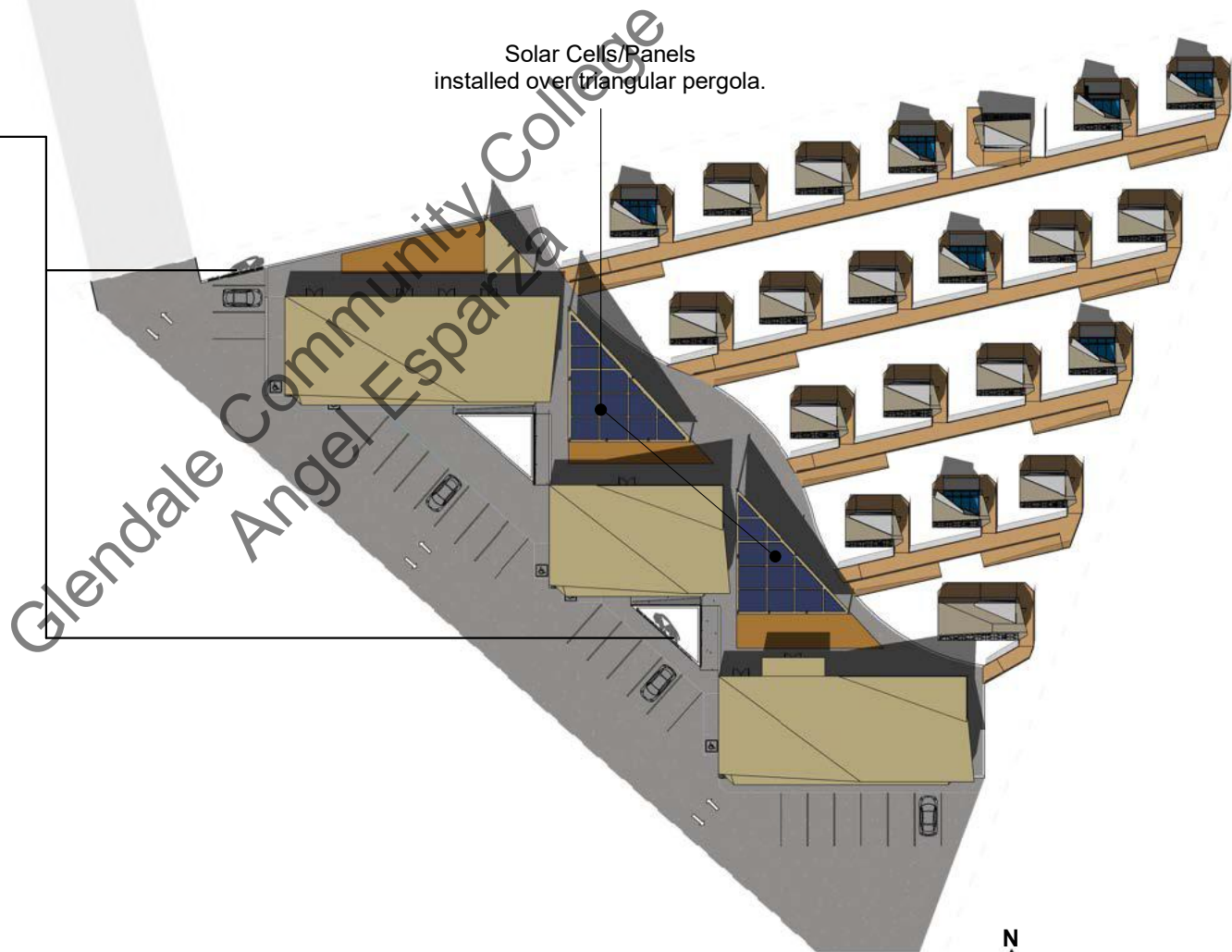
SCALE: 1" = 60' - 0"



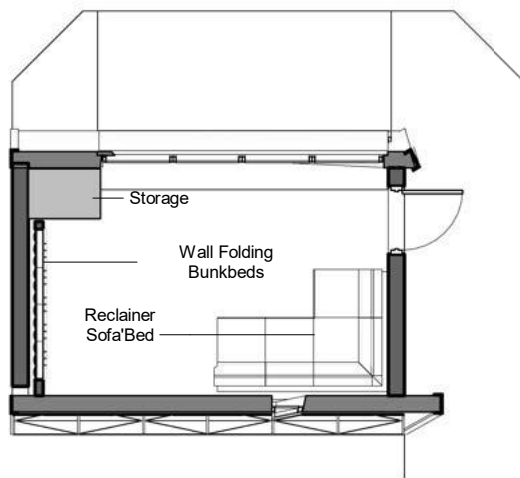
S. GATE



Solar Cells/Panels  
installed over triangular pergola.



23

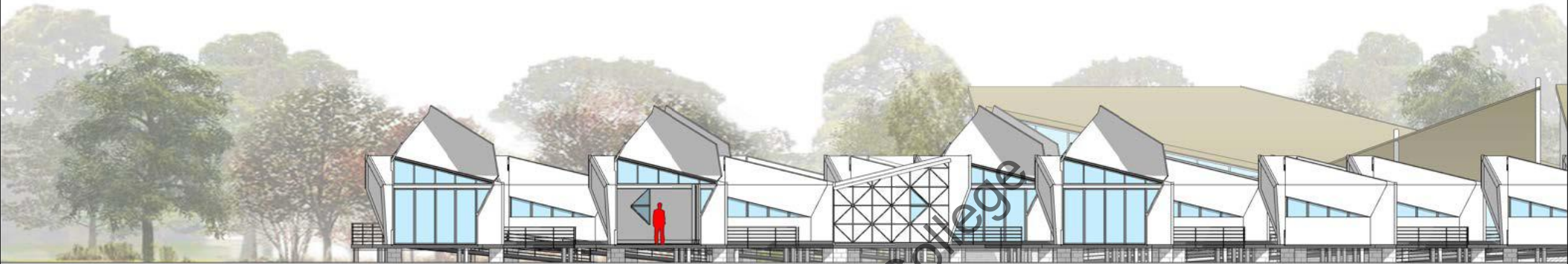


Cabin Floor Layout  
1/8" = 1' - 0"

Site Plan View  
1" = 60' - 0"



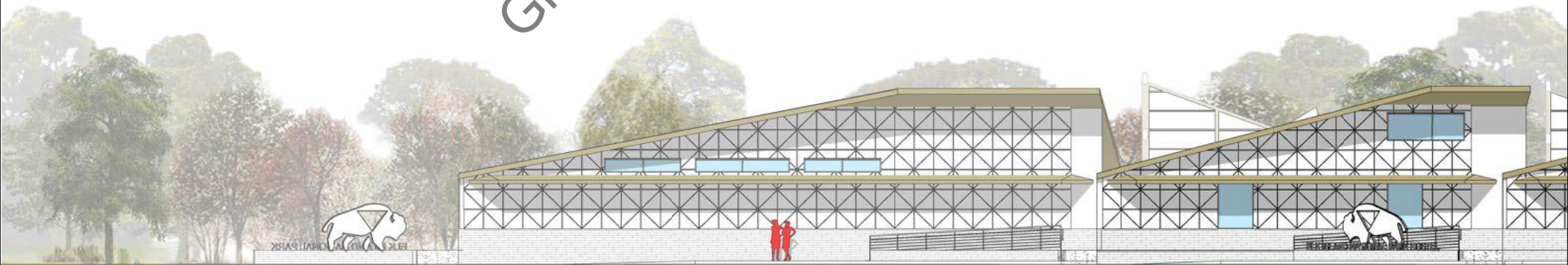
# ELEVATIONS



North Elevation  
1" = 20' - 0"

24

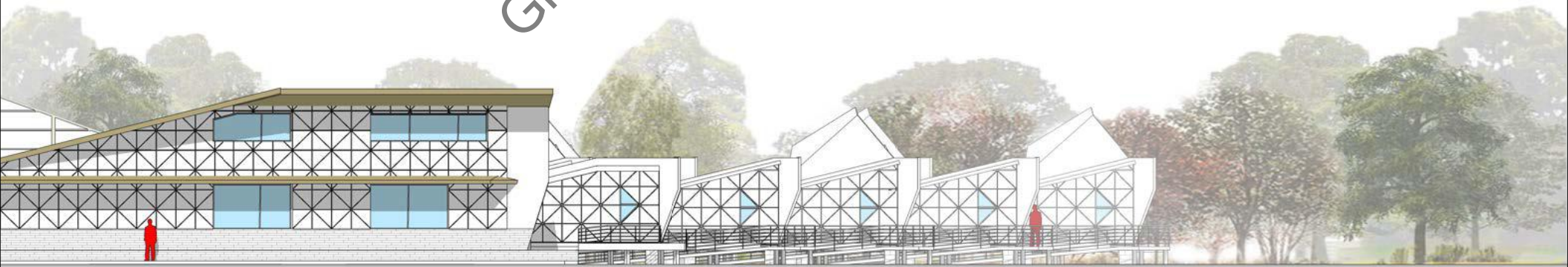
Glendale Community College  
Angel Esparza



South Elevation  
1" = 20' - 0"



Glendale Community College  
Angel Esparza





East Elevation  
1" = 20' - 0"

26

Glendale Community College  
Angel Esparza



West Elevation  
1" = 20' - 0"



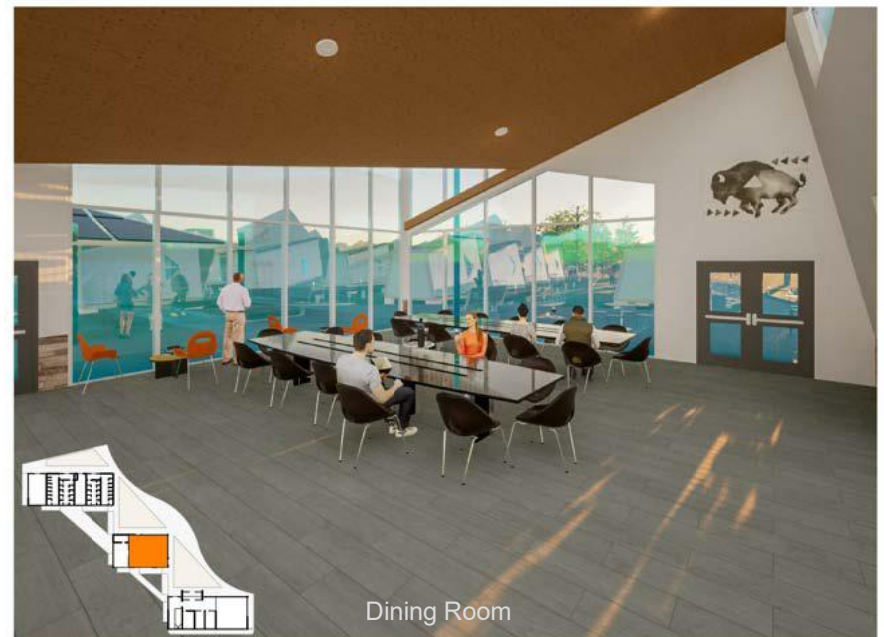
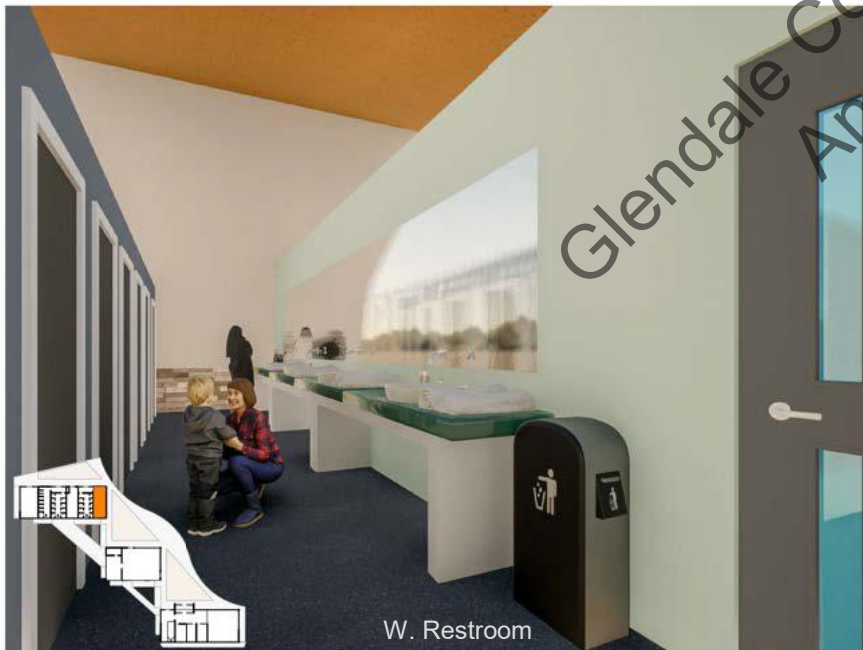
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# INTERIOR VIEW DESIGN



28



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### 3 D MODEL DESIGN



A plastic sheet 3D model handmade design. Cutting by hand and putted together whit glue and as well painted to have the present result

# PHOTOGRAPHER HOUSE DESIGN

708 E. Palmer  
Ave. Glendale, Ca.



SCAN ME



Render of the front side of the 3D model design project, showing artificial light projections.

## PHOTOGRAPHER ARTIST HOUSE DESIGN



**Jan Kempenaers** (BE, 1968) lives and works in Antwerp. He studied at the Royal Academy of Fine Arts in Ghent and at the Jan Van Eyck Academy in Maastricht. He has been affiliated with the KASK School of Arts in Ghent since 2006. Since the mid-eighties, Kempenaers has been photographing urban & natural landscapes, architectures, as well as monuments. In 2012, he completed a PhD in the visual arts about the picturesque. His most recent book *Belgian Colonial Monuments* is published by Roma Publications.

Belgian photographer Jan Kempenaers treats them purely as artistic objects in his book, *Spomenik*, named for the Serb-Croat word for monument.

Jan Kempenaers (School of Arts Ghent)  
The Kadinjača Memorial Complex commemorates those who died during the Battle of Kadinjača.



## CONCEPT ANALYZE AND UNDERSTANDING

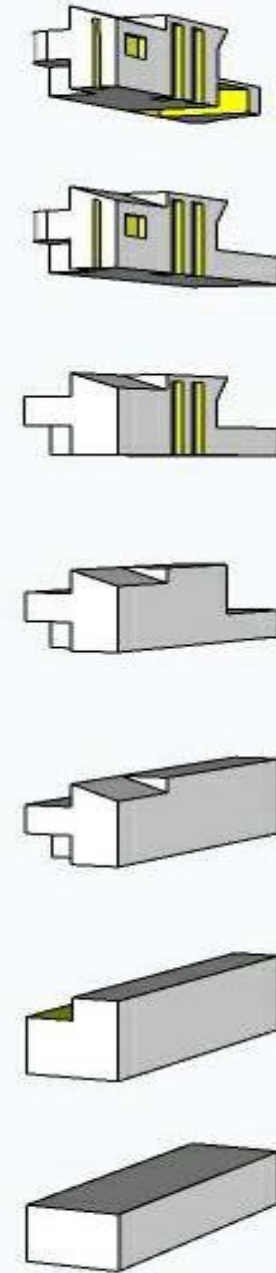


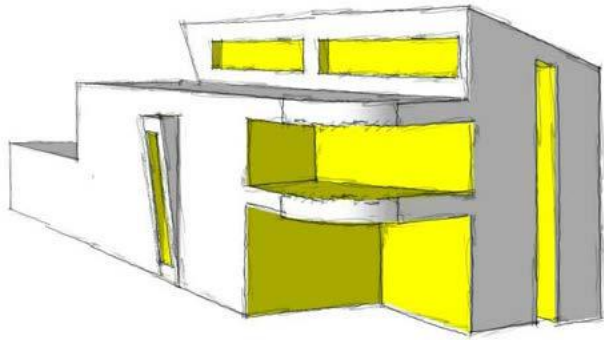
Exist different type of professional photographer works worldwide but based on **Jan Kempner's** found in his work. He provides landscape captures of concrete forms showing that structure's symbolic history can be void and upturned solidly. To understand the concept of what this photographer Artist design is all about, I had to involves some knowledge in his social and work background. Taking the idea of thinking like this artist is like an architecture person. Still, I'm not talking about constructing shapes and structures; I'm thinking about capture the moment in landscape time object surround environment captures, capture the shape, scales, manipulation of light form, and define a perfect proportion to obtain the best capture and implanted in a picture or board. Is that why the photographer has some similitude's in the eyes of an architecture person.

### MOST SIMILITUDE'S SIDE BY SIDE OF AN ARCHITECT PERSON AND A PROFESSIONAL PHOTOGRAPHER ARTIST USED IN THIS CONCEPT DESIGN:

32

- **Rhythm:** Architect set up a pattern of rhythmic repetition elements like solids and voids. Photographers can see distingue this void and solids to provide a view of colonial position.
- **Scales:** Architect provide consistence of the size of a building in relation to the human body and its surroundings. The photographer depends de of the supporting of sizes objects and magnitudes depend on what work is capturing.
- **Light:** Architects use natural, artificial, interior, exterior light to provide visual delight and highlighting meaning, focusing the eye on an important point. Photographers use the same light environment or artificial light to create the purpose or provide shadows, perfection the bests capture.
- **Texture:** Architects define structures or designs, providing textures, and create effects of solidity and stability. Photographers use those textures to develop their reflection of lights and performance in a quality picture.
- **Color:** Architect use colors to provide a design to separate forms, distingue the mining of the designs, and involve the blending of the environment. Photographers need the color to obtain life captures or intent mining to provide to the spectators.
- **Site:** Architects need to contrast the building or design settings or enhance and blend whit in their surroundings, which can be contextual or organic design. Photographers use this site to displace their work's capture and obtain their concept of the pictures.

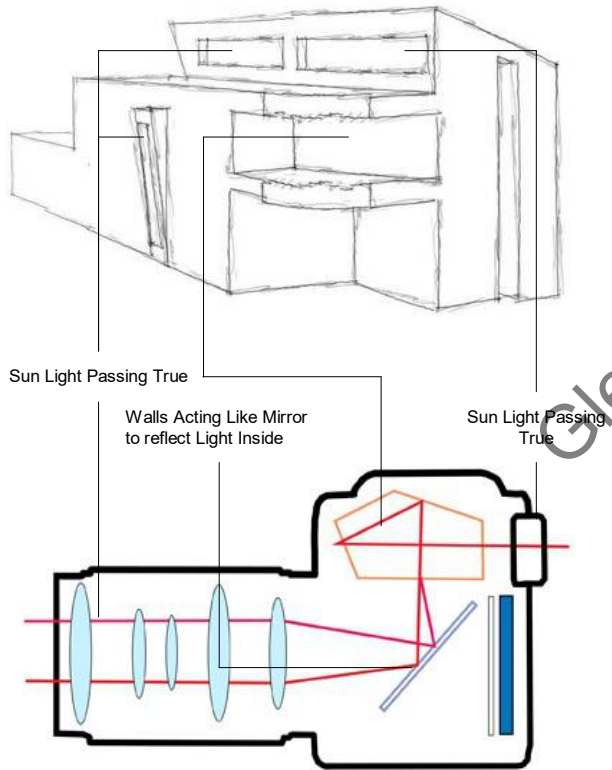
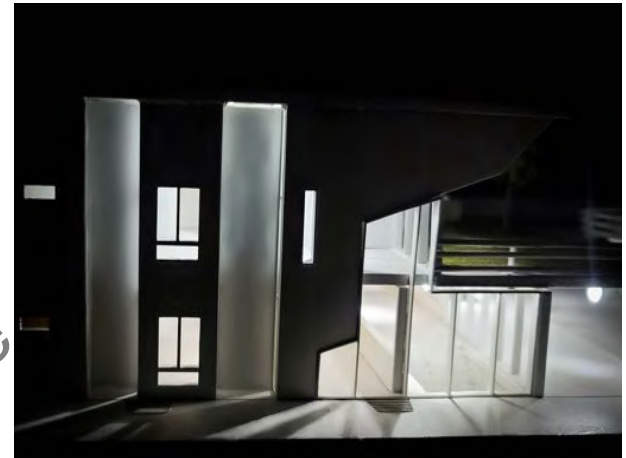




Sun Capture Area Illumination.

This design was mainly in the performance of natural light and light reflection. The artist focuses on a natural landscape ambient on monuments and contests forms; it was contended to worked to obtain passive light through window openings and reflect that light to the interior of the house without compromising the concept of interior heating.

A peculiar aspect is a similitude the diagram of a digital camera, compacting similarity, and image reflection. A digital camera gives me the idea of capturing this sunlight and play with shadows, illumination, and artificial light. An intended small monument of the artist book work was intended place due to shadows creation and passed light similitude.



Obtaining the benefit of natural light and, at the same time, how to block it to bring shadows projections in this house was the mining purpose. Radically, photographers need good lighting to focus on any object, and in the same way, they use shadows but in point on an item. In this design, the purpose is to produce the effect of surplus and lighting simultaneously. It is used about the work environment of a photographic studio and simulating this environment. Considering that our object is the house and the artificial lights are the sun's position throughout the day, and later the camera would be the eye of a person standing in front of this house.



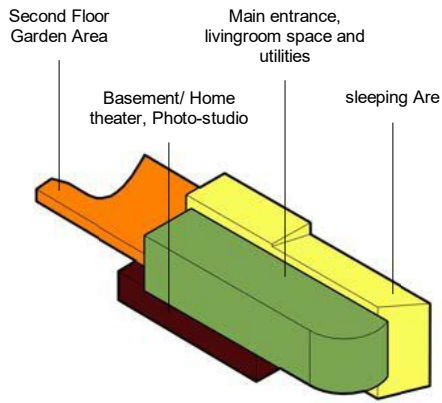
Patterns of camera negatives used for texture and design forms.



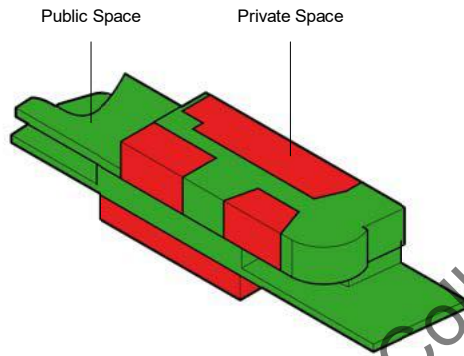
Long wall void opening to recollect light with out risk direct sun rays, and optimize the artificial light shadows.

Digital Camera Related to Project Design

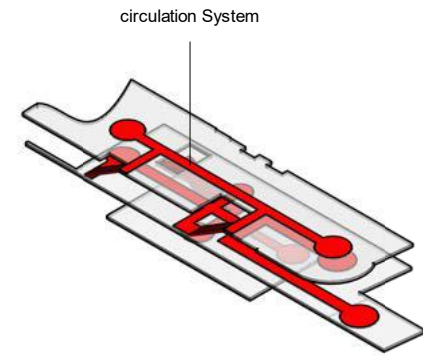
# DIAGRAMS & ELEVATIONS



Parti Diagram



Program Diagram

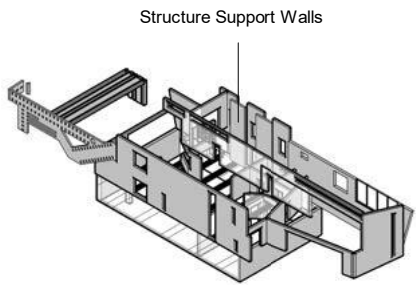


Circulation Diagram

34



North Elevation  
3/64" = 1'-0"



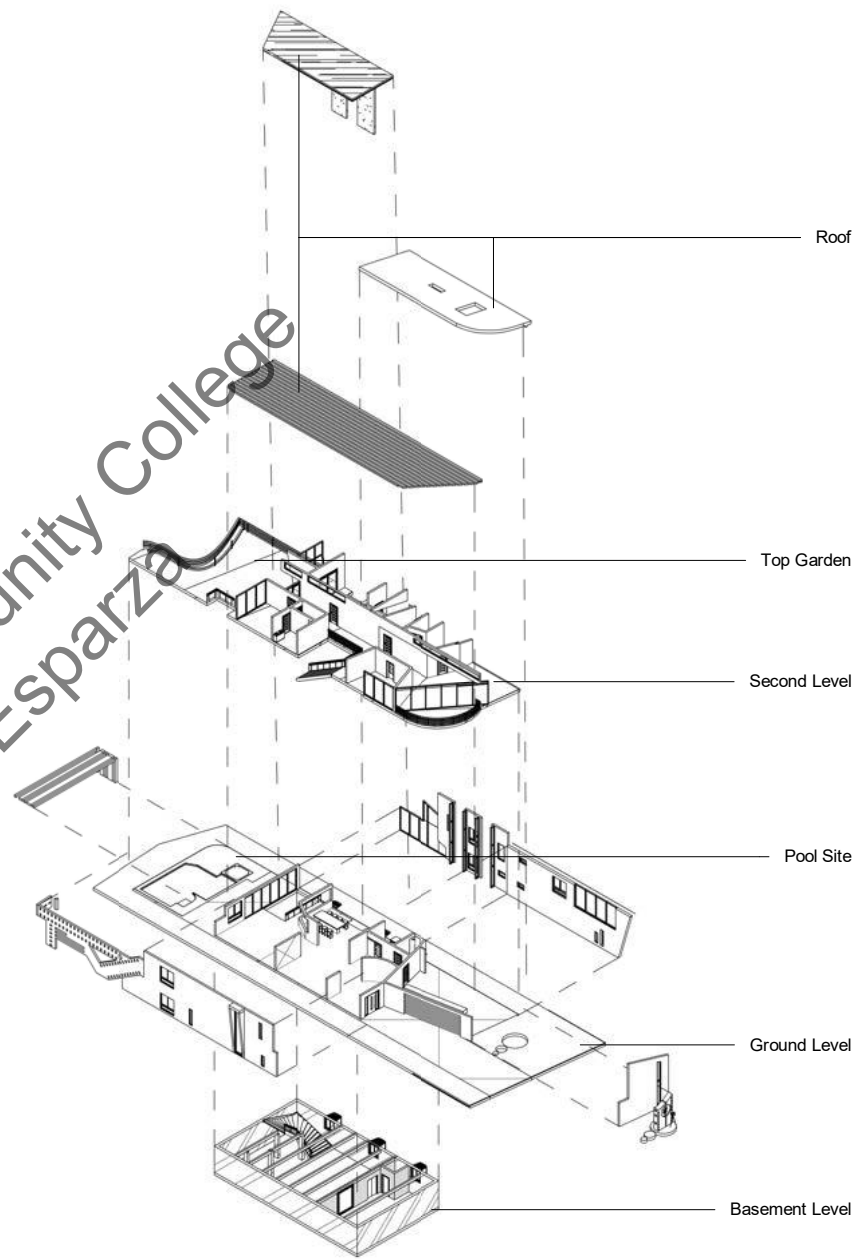
Structure Support Walls

Structure Diagram



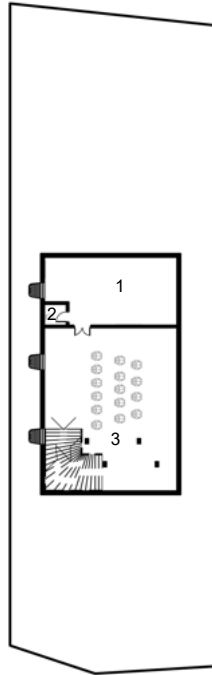
South Elevation  
3/64" = 1'-0"

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Angel Esparza

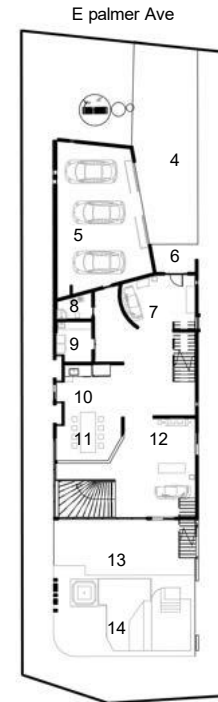


Exploded Diagram

# FLOOR PLANS & ELEVATIONS



1. Photo Studio
2. Restroom 1
3. Movie Theater
4. Driveway
5. Car Garage
6. Main House Entry
7. Foyer
8. Restroom 2
9. Laundry room
10. Kitchen
11. Dining Room
12. Living room
13. Patio
14. Pool Are



36

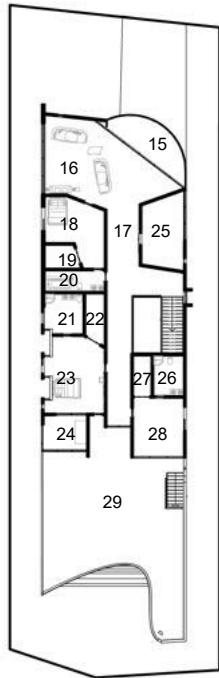
Basement Floor Plan  
1" = 50'-0"

First Floor Plan  
1" = 50'-0"

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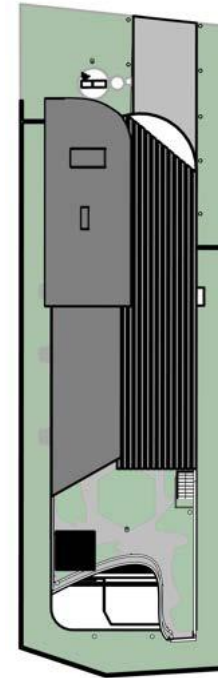
East Elevation  
3/64" = 1'-0"



Second Floor Plan  
1" = 50'-0"



- 15. Balcony
- 16. Den Room
- 17. Hall
- 18. Bedroom 1
- 19. Closet 1
- 20. Restroom 3
- 21. Master Restroom
- 22. Master Closet
- 23. Master Bedroom
- 24. Office
- 25. Library
- 26. Restroom 4
- 27. BedCloset 2
- 28. Bedroom 2
- 29. Top Garden



Site Plan  
1" = 50'-0"



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Angel Esparza



West Elevation  
3/64" = 1'-0"

**SECTION CUTS**



38



Long Section Cut A



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Angel Estepa



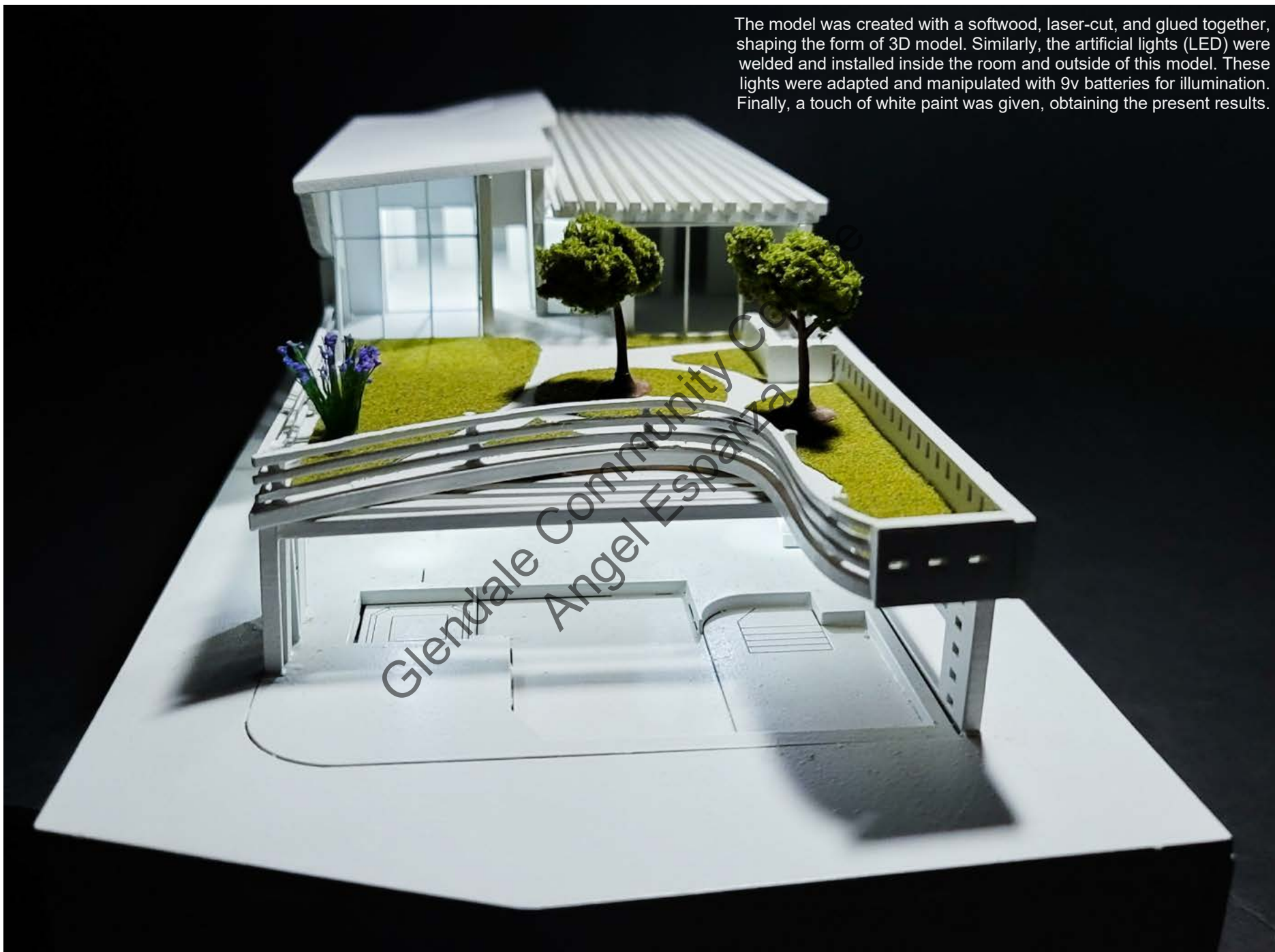
Perspective Section Cut B-C

## **ANIMATE SITE RENDER & 3D MODEL DESIGN**

Images were produced in "twimmotion" and retouched in photoshop for a better result. Additionally, the original side details were used on this picture project; the reference was produced and gave a better appearance to the presentation and quality of digital work. A day and night view was required to complete the sequence of the final display.



The model was created with a softwood, laser-cut, and glued together, shaping the form of 3D model. Similarly, the artificial lights (LED) were welded and installed inside the room and outside of this model. These lights were adapted and manipulated with 9v batteries for illumination. Finally, a touch of white paint was given, obtaining the present results.



# FITZPATRICK-LELAND HOUSE

(1936)  
Laurel Canyon,  
Los Angeles,  
90046



SCAN ME

42



## PROJECT INFORMATION / DESCRIPTION



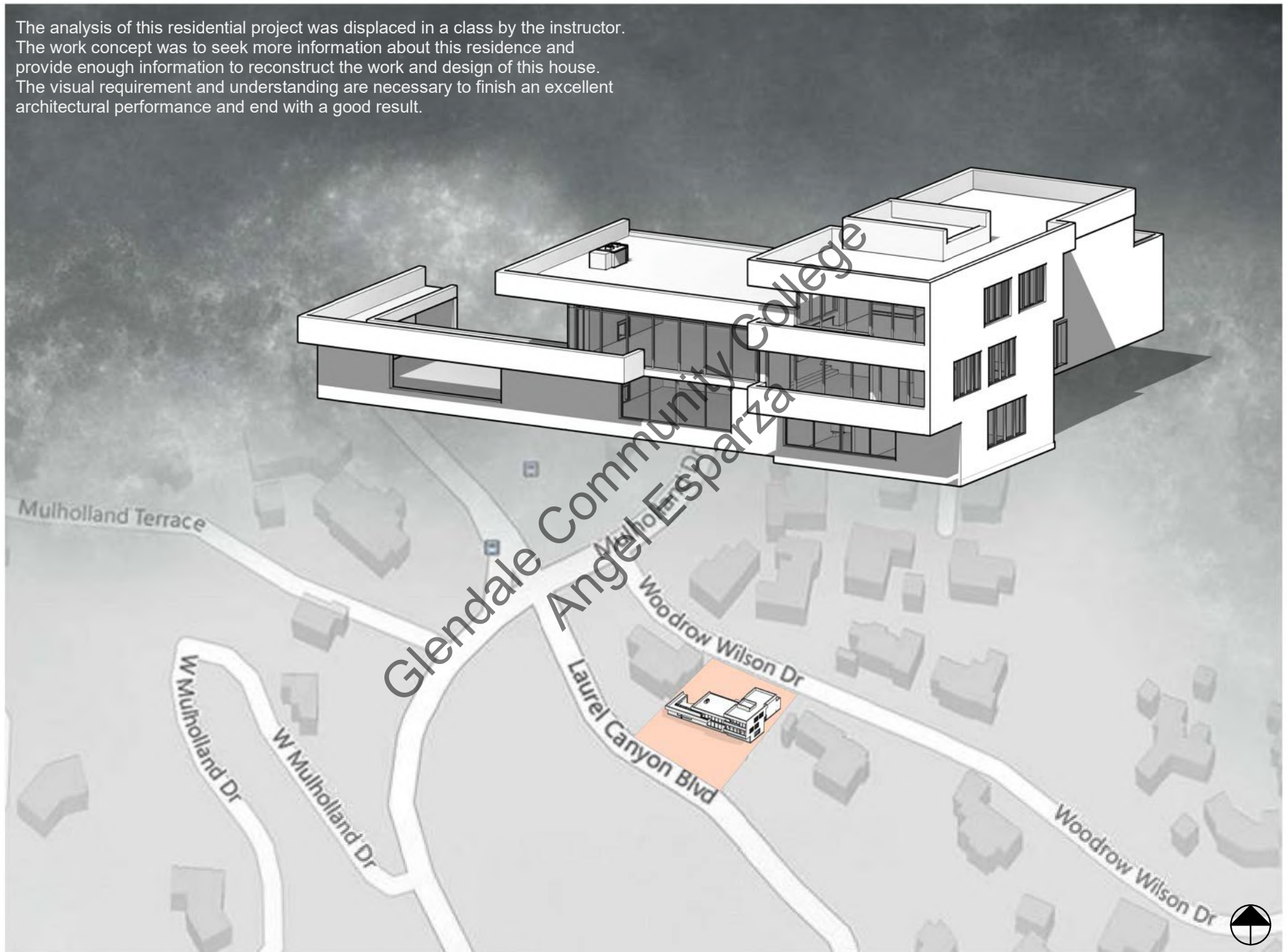
**R. M. Schindler, 1935. Photo by Dorothea Lange.  
Oakland Museum of California**

The Fitzpatrick-Leland House commands a strong presence along the slope of Laurel Canyon and Mulholland Drive, as the three-story terraced scheme captures the eye with its interplay of protruding canopies beneath. Schindler's subtle composition of interlocking volumes dominates the experience of interior spaces. The dramatic L-shaped home was originally commissioned by developer Clifton Fitzpatrick. The home's light-filled spaces and expansive grounds provide an ideal setting for residency and small-scale programs.



## SITE & VICINITY MAP, LOCATION

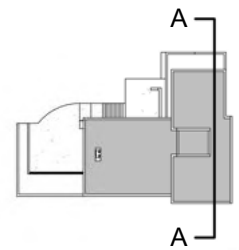
The analysis of this residential project was displaced in a class by the instructor. The work concept was to seek more information about this residence and provide enough information to reconstruct the work and design of this house. The visual requirement and understanding are necessary to finish an excellent architectural performance and end with a good result.



**SECTION CUT**



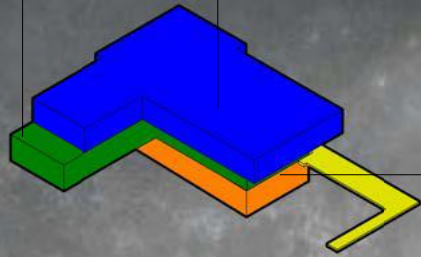
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Section A

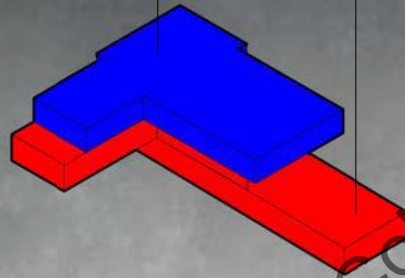
# DIAGRAMS & ELEVATIONS

Main Floor / First Floor  
Bedroom/ Sleeping Area  
Second Floor  
Lower Ground Level  
Play/ Entertainment Area



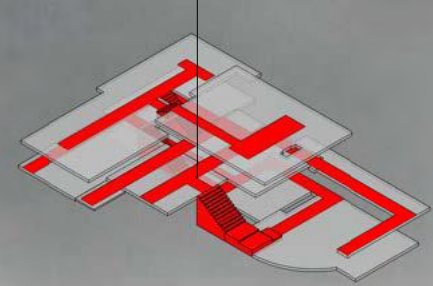
Parti Diagram

Public Space  
Private Space



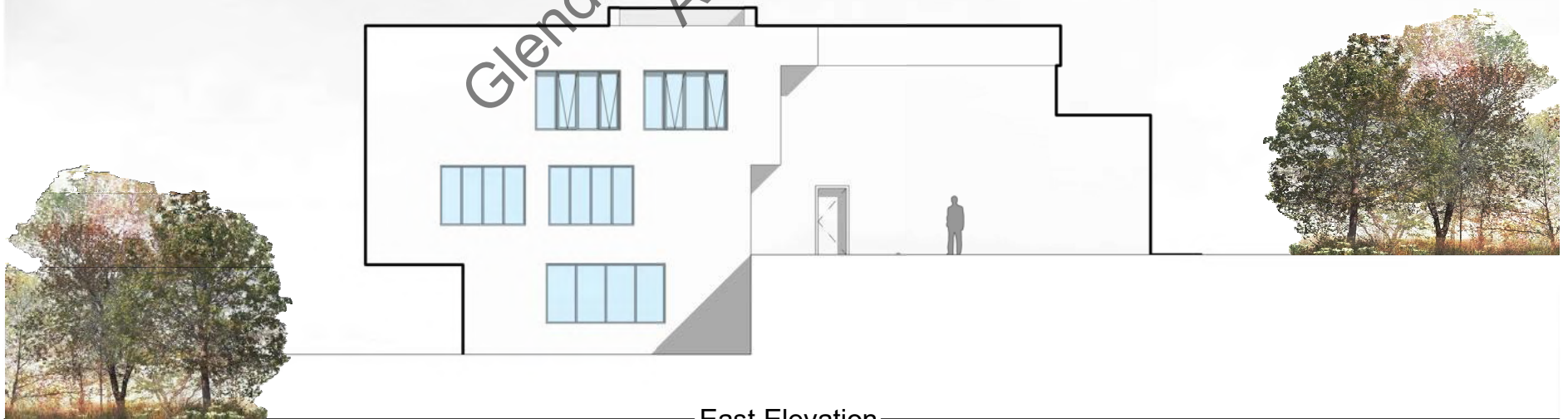
Program Diagram

Diagram Concept Access/ Red Color

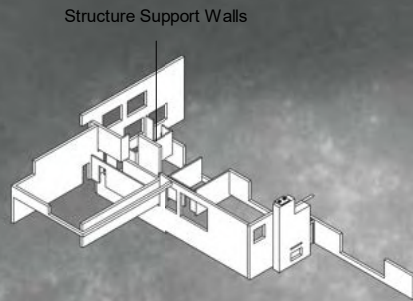


Circulation Diagram

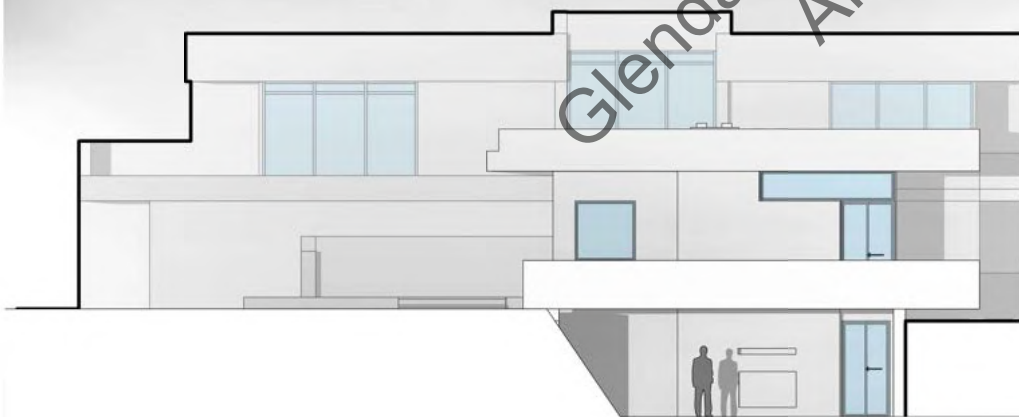
46



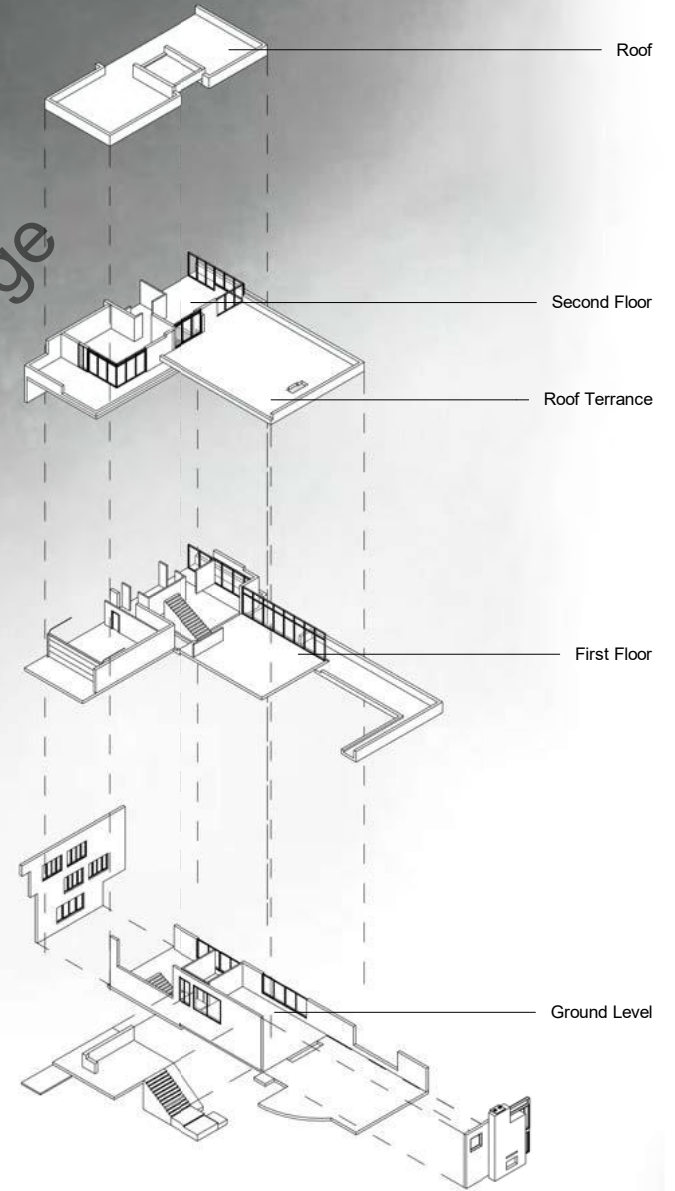
East Elevation  
1/16" = 1'-0"



Structure Diagram



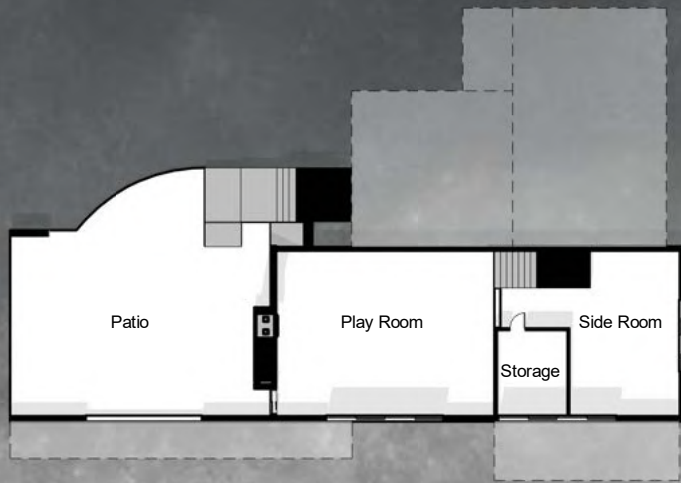
West Elevation  
1/16" = 1'-0"



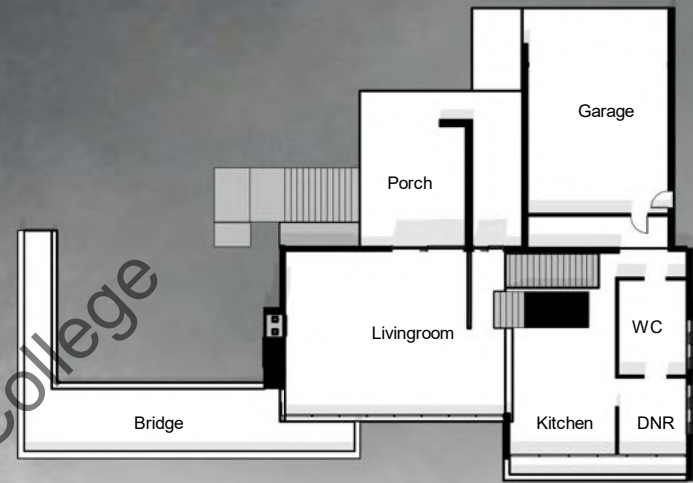
Exploded Diagram

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# FLOOR PLANS & ELEVATION



Ground Floor Plan  
1/32" = 1'-0"

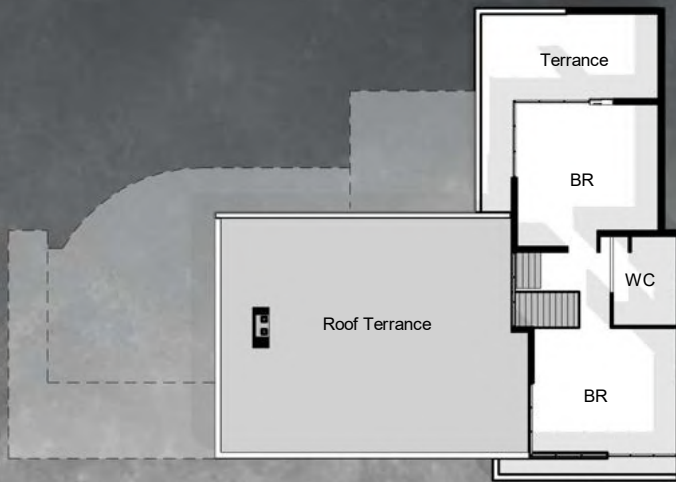


First Floor Plan  
1/32" = 1'-0"

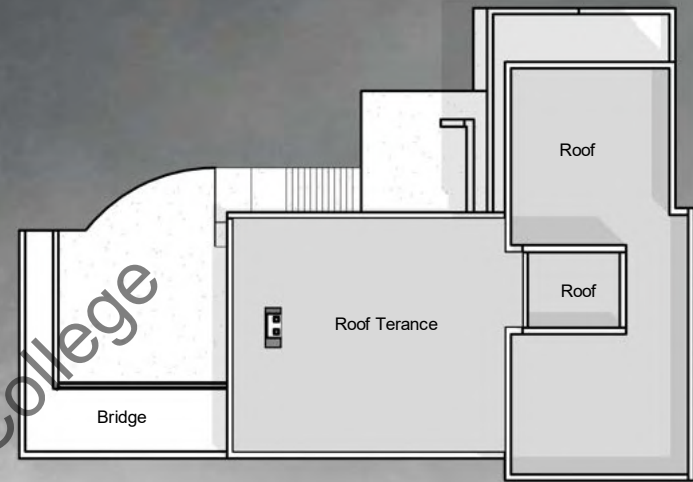
48



North Elevation  
1/16" = 1'-0"



Second Floor Plan  
 $1/32" = 1'-0"$



Site View Plan  
 $1/32" = 1'-0"$

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South Elevation  
 $1/16" = 1'-0"$

## ANIMATE RENDER & 3D MODEL DESIGN

Render produced in Twinmotion, day view Northwest side of case study project house.



This project was created in Revit and transferred to AutoCAD for the facilitation of promoting information to the laser cutting machine on softwood. I obtained all the necessary cuts for the assembly of this project parts combined by assembling them with resistant glue, giving it a white paint finish, and getting the present results.



# MIX-USE BUILDING, MACARTHUR PARK PROJECT

650 S Alvarado St,  
Los Angeles, CA  
90057



SCAN ME

52

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## PROGRAM INFO



53

Instructor asked me to design and proposed a brand new commercial mix-use high-rise building with circulation or a program connecting to the metro station below. The address is 650 South Alvarado Street, Los Angeles, CA., the corner of South Alvarado Street and Wilshire Blvd across from Mac Arthur Park, next to Westlake / MacArthur Park metro station. The site area is 16,081 sq ft. or 0.36 acres of land since 1 acre = 43,560 sq ft.

**Location: 650 South Alvarado Street, Los Angeles, CA**

### Regional Context:

The site is located on Wilshire Boulevard, midway between the Miracle Mile to the west and the Central Business District to the east. It is a gateway to the Downtown and Center City West areas. Its visual prominence is emphasized by its location adjacent to MacArthur Park. The station site is located at the geographic center of a predominantly Central and South American district extending along Alvarado Street, from the Echo Park community to the north of Hollywood Freeway to the Pico-Union community to the south. The site is located at the intersection of Wilshire Boulevard and Alvarado Street, both designated as major highways and surface transit routes. The station is planned to be a transfer point for bus and subway passengers.

## RESEARCH SITE HISTORY



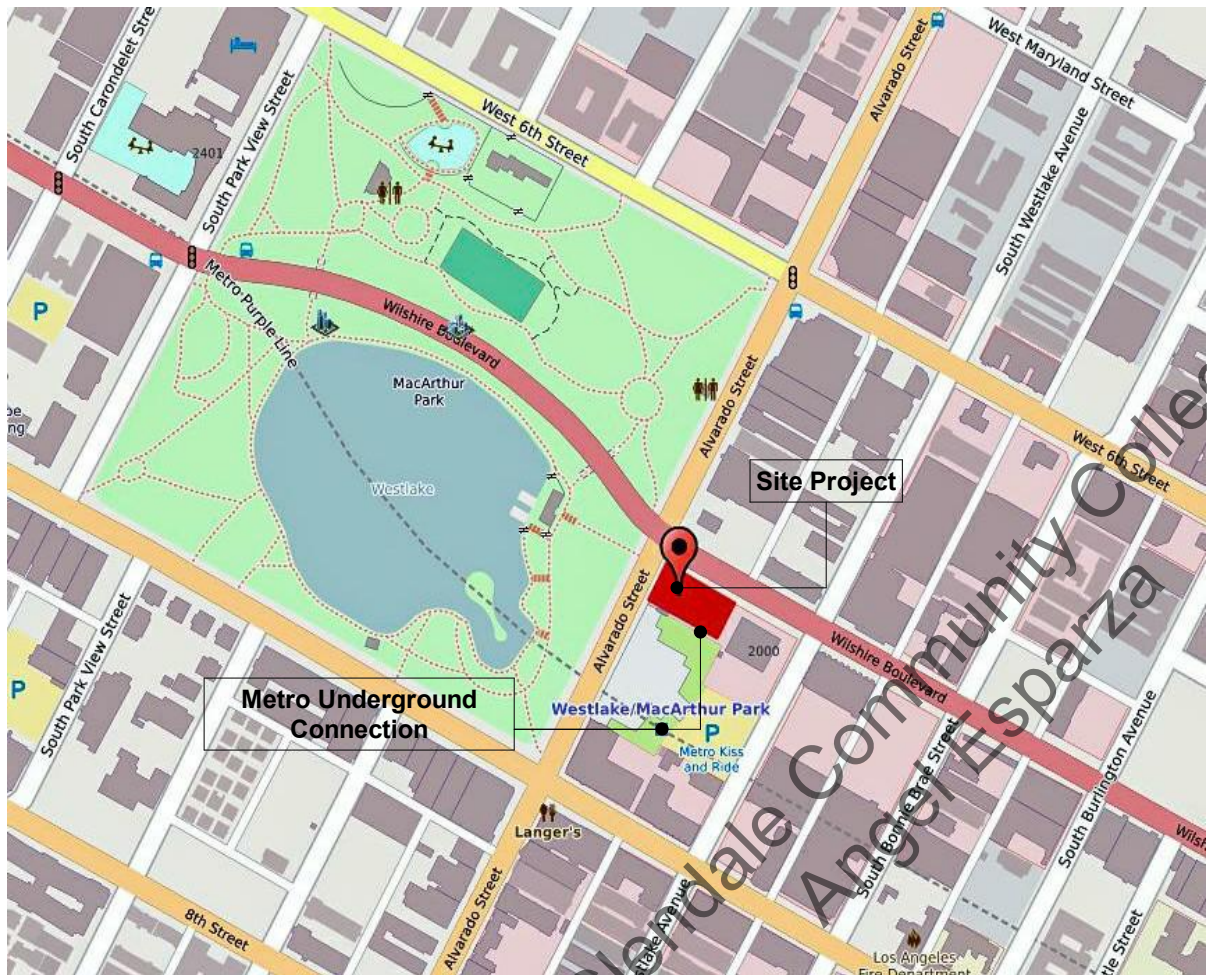
### Macarthur Park Histiry Info

The park, originally named Westlake Park, was built in the 1880s, along with a similar Eastlake Park, whose lake is artificial, in Los Angeles. Westlake Park was renamed May 7, 1942; Eastlake Park was renamed Lincoln Park. Both Westlake and Eastlake (as well as Echo Park) were built as drinking water reservoirs connected to the city's system, Zanja Madre. When the city abandoned the non-pressurized zanja system for a pressurized pipe system, these smaller, shallow reservoirs located at low points no longer provided much benefit and were converted into parks.

The park was named for Henricus Wallace Westlake, a Canadian physician who had moved to Los Angeles around 1888, settled in the area and donated a portion of his property to the city for a park.

In the mid-19th century the area was a swampland; by the 1890s, it was a vacation destination, surrounded by luxury hotels. In the early part of the 20th century, the Westlake neighborhood became known as the Champs-Élysées of Los Angeles.

## SITE LOCATION & METRO CONNECTIONS SIDE



### Metro Rail to MacArthur Park

From Union Station & Downtown Los Angeles – Take the Metro Rail towards either North Hollywood (Red Line) or Wilshire & Western (Purple Line), exit at the Westlake/MacArthur Park Station, cross Alvarado Street and enter the park on the north side of Wilshire Blvd. The Levitt Pavilion is located in the northwest corner of MacArthur Park, near the intersection of W. 6th Street and S. Park View Street.

From North Hollywood, Hollywood, Silverlake, etc. – Take the Red Line towards Union Station, exit at the Westlake/MacArthur Park Station, cross Alvarado Street and enter the park on the north side of Wilshire Blvd. The Levitt Pavilion is located in the northwest corner of MacArthur Park, near the intersection of W. 6th Street and S. Park View Street.

From Wilshire & Western Station, Koreatown, & surrounding areas – Take the Purple Line towards Union Station, exit at the Westlake/MacArthur Park Station, cross Alvarado Street and enter the park on the north side of Wilshire Blvd. The Levitt Pavilion is located in the northwest corner of MacArthur Park, near the intersection of W. 6th Street & S. Park View Street.

## PROJECT REQUIREMENTS

### Community Context:

The village center at Westlake will become a natural neighborhood focal point. The neighborhood has a high transit ridership potential, being more densely populated than the City of Los Angeles as a whole. The neighborhood adjacent to the Westlake village center is predominantly Central American. The resident population also includes other ethnic groups such as Mexican, Korean, and African-American. The resident population also includes many senior citizens as well as students that attend the Otis Parsons School of Design.



**BUILDING MAIN ENTRY LOBBY OF THE BUILDING**

- Entry Lobby/reception desk/security booth and mailbox for all tenants

**RETAIL**

- Retail shops area or areas total add up to-----2000 sq ft

**NEIGHBORHOOD COMMUNITY CENTER**

- Entry Lobby----- 250 sq ft
- Office for administration management----- 400 sq ft
- Meeting room A with 2 exits-----1000 sq ft
- Meeting room B with 2 exits-----1000 sq ft
- Male and female Restrooms ----- each 300 sq ft
- Dining room-----1000 sq ft
- Kitchen next to trash chute----- 700 sq ft
- pre-function area ----- 2000 sq ft
- Indoor assembly Space with min. of 3 exits w/ 28'-0" tall in space----- 4000 sq ft

**CHILD DAYCARE CENTER**

- Entry Lobby: more than 9'-0" ceiling----- 250 sq ft
- Director Office----- 150 sq ft
- Staff Office----- 350 sq ft
- Parents room----- 350 sq ft
- sickbay----- 250sq ft
- laundry room----- 150 sq ft
- pantry at lounge area----- 300 sq ft
- Staff lounge area----- 250 sq ft
- Storage----- 300 sq ft

**CHILD DAYCARE CLASSROOMS**

- Total of 6 classrooms with storage and unisex [1] bathroom in the classroom
- Infants w / storage and unisex [1] bathroom----- 550 sq ft
- Toddlers w / storage and unisex [1] bathroom ----- 550 sq ft
- 2-year-old w / storage and unisex [1] bathroom ----- 550 sq ft
- 3-year-old w / storage and unisex [1] bathroom ----- 550 sq ft
- 4-year-old w / storage and unisex [1] bathroom ----- 550 sq ft
- 5-year-old w / storage and unisex [1] bathroom ----- 550 sq ft
- Multipurpose room w / storage----- 550 sq ft
- Male and female Restrooms-----each 300 sq ft
- Indoor play area – partially connect to Outdoor Play area----- 1500 sq ft

**OUTDOOR PLAY AREA**

- Outdoor Play area – partially open to sky----- 4000 sq ft

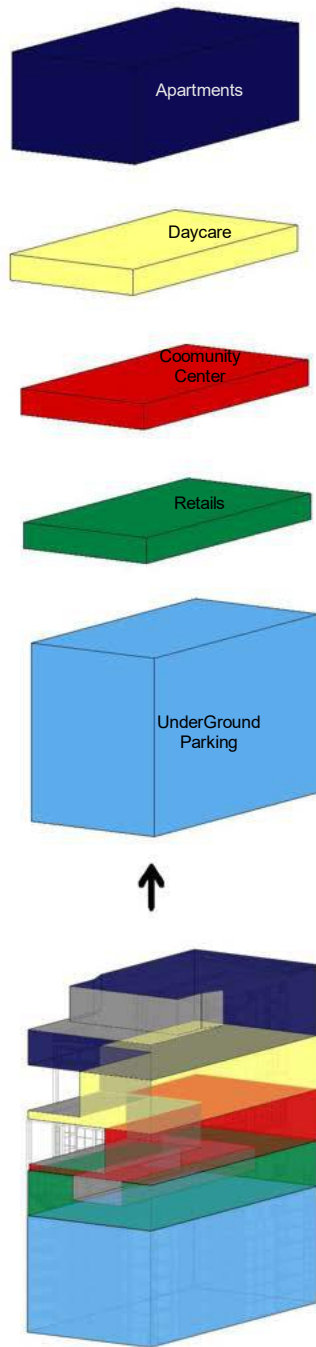
**MIRCO-UNITS**

To serve 26 uni, and lobby per floor units.

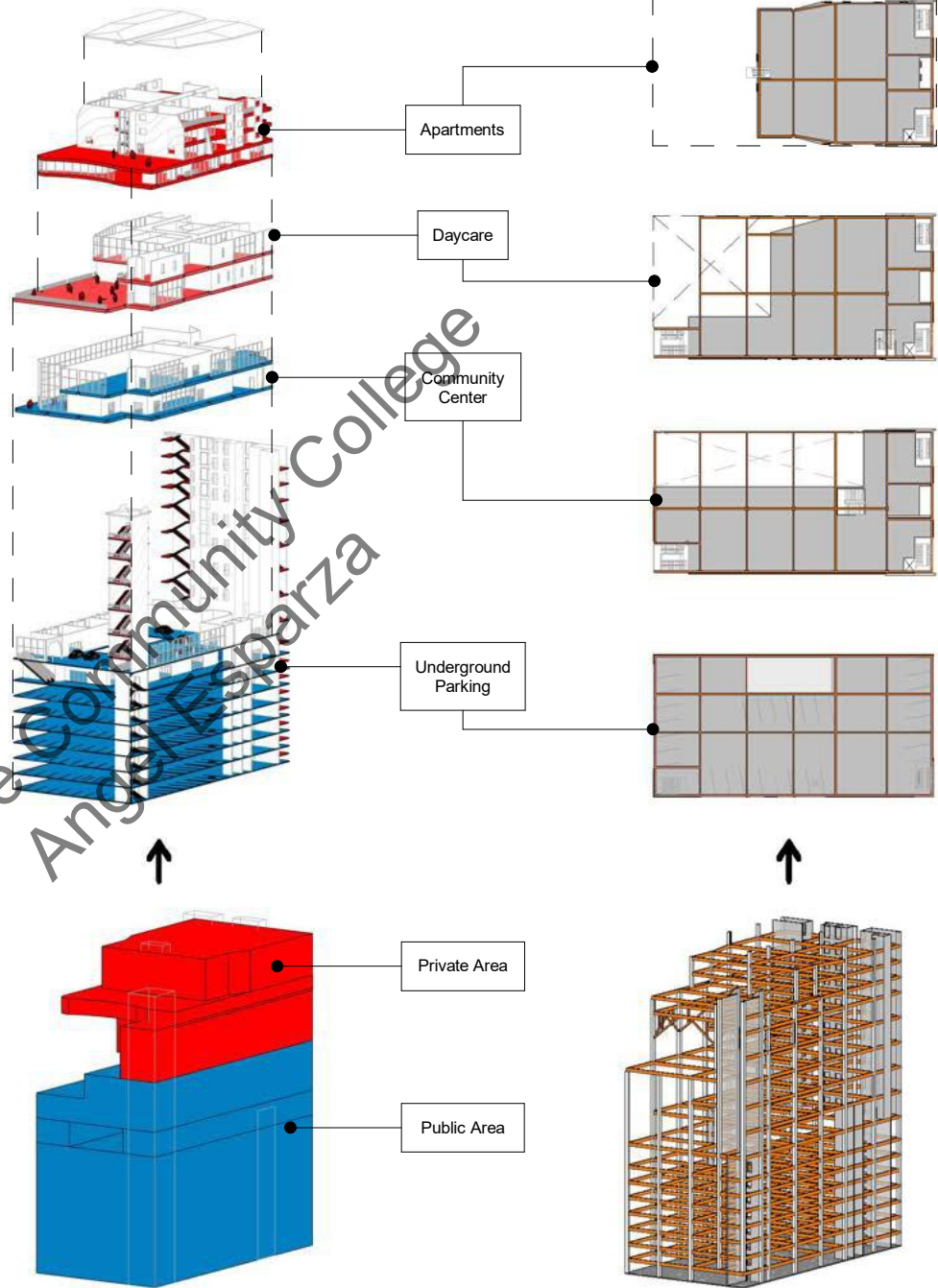
- 10(one Bedroom)-Each unit [10x30]----- 300 sq ft
- 16 (two bedroom)-Each unit [20X30]-----600 sq ft



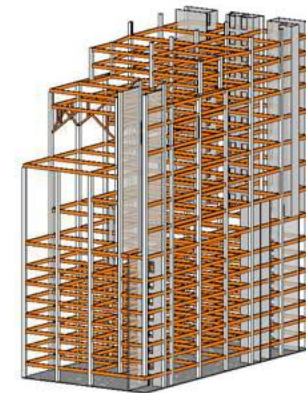
**DIAGRAMS**



Parti Diagram

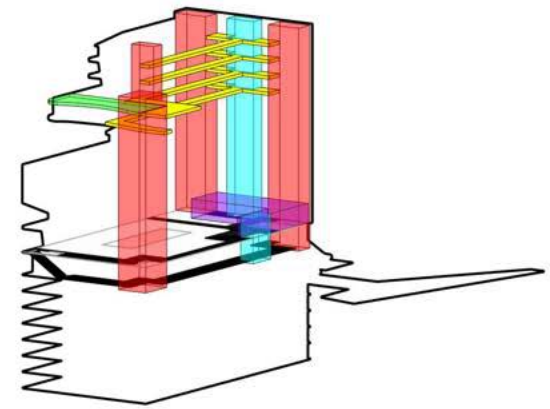
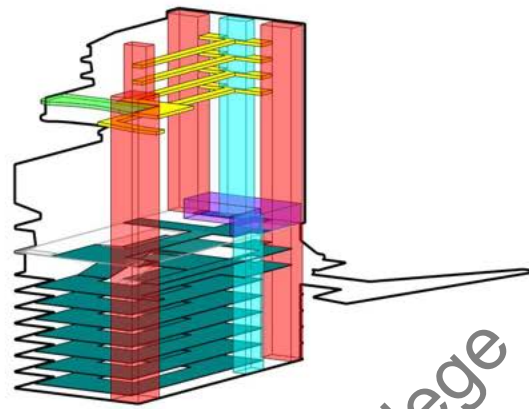
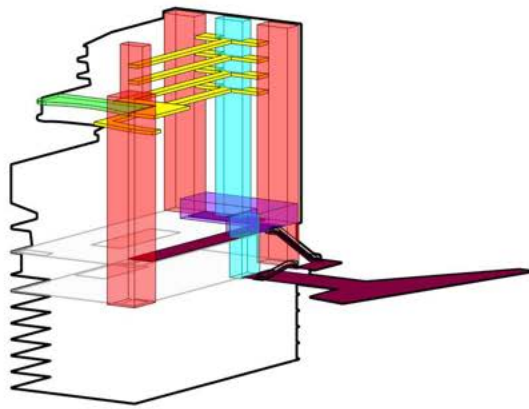


Program Diagram

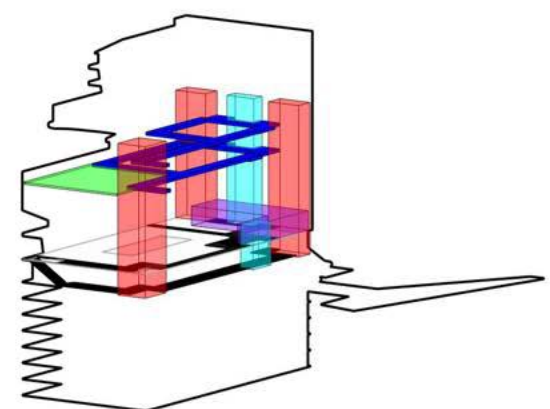
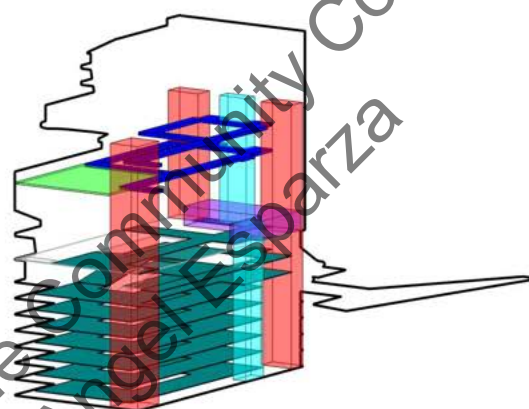
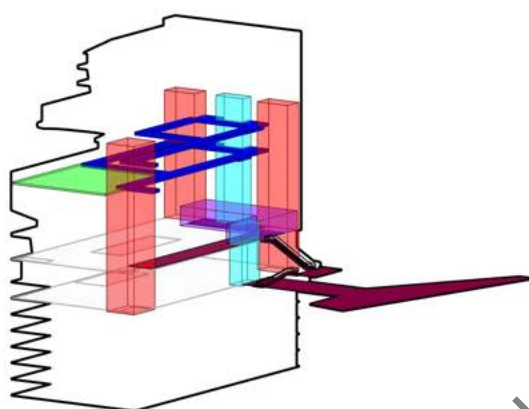


Structure Diagram

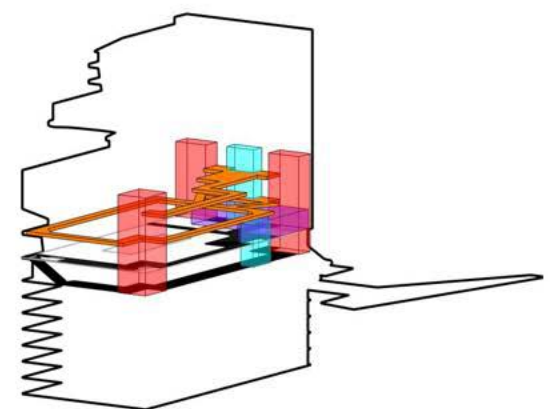
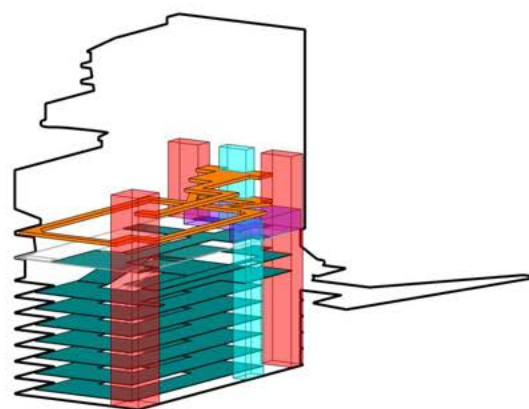
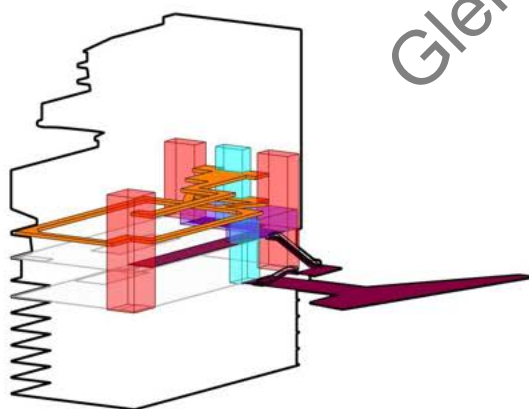
- C. Apartment
- C. Daycare
- C. Community Center
- C. Retails
- C. Metro
- Open Recreation Area
- Lobby
- Elevator
- Stairs
- Veicular



- C. Apartment
- C. Daycare
- C. Community Center
- C. Retails
- C. Metro
- Open Recreation Area
- Lobby
- Elevator
- Stairs
- Veicular



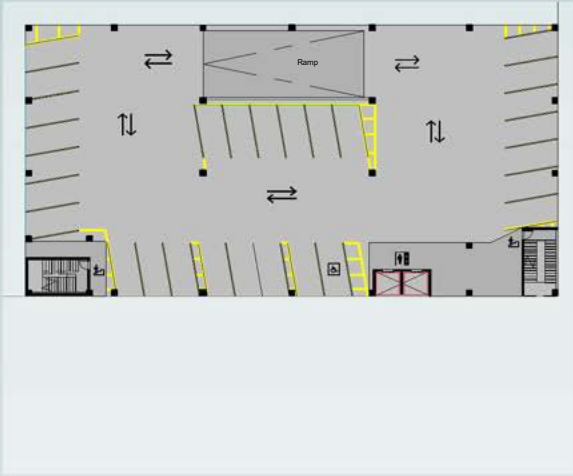
- C. Apartment
- C. Daycare
- C. Community Center
- C. Retails
- C. Metro
- Open Recreation Area
- Lobby
- Elevator
- Stairs
- Veicular




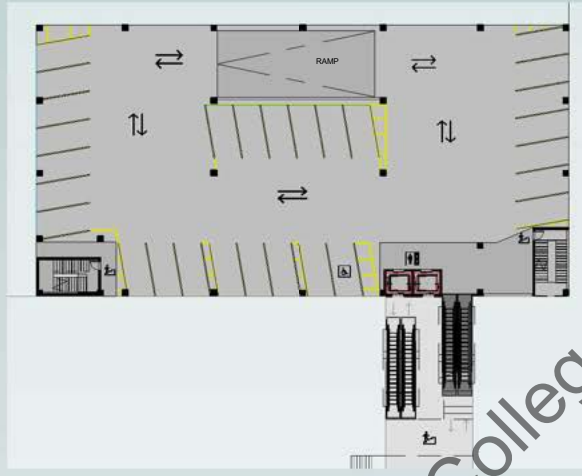
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Angel Esparza


Circulation Diagrams

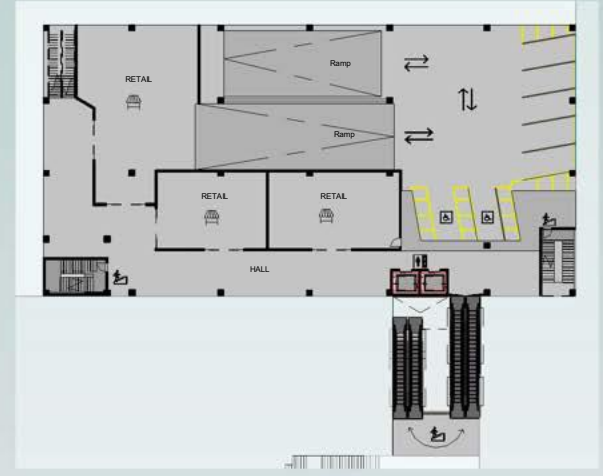
# FLOOR PLANS & ELEVATIONS




**Under-Parking Level 1** 1/64" = 1' - 0"   
 Similitude for All Parking levels Below



**Under-Parking Level 2** 1/64" = 1' - 0"   
 Underground parking & Metro Connection



**Under-Parking & Retails** 1/64" = 1' - 0"   
 Retails & Metro Connection

60



**North Elevation**  
 1/64" = 1' - 0"




**Ground Level**  
 Retails & Lobby Site Level

1/64" = 1' - 0" 



**Floor Plan Level 2**  
 Community Area Level

1/64" = 1' - 0" 



**Floor Plan Level 3**  
 Community Area Level

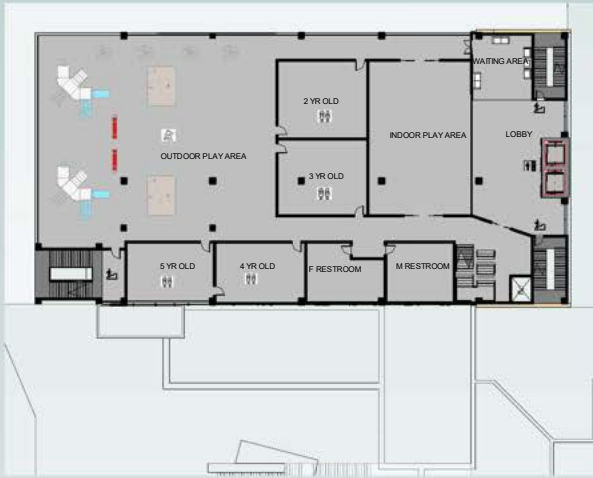
1/64" = 1' - 0" 

	Retails	
	Lobby	
	Stairs	
	Elevator	
	Restrooms	
	Trash Chuter	


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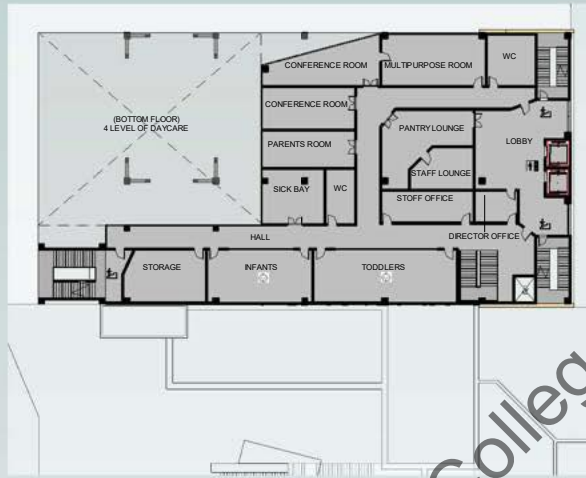


**South Elevation**  
 1/64" = 1' - 0"




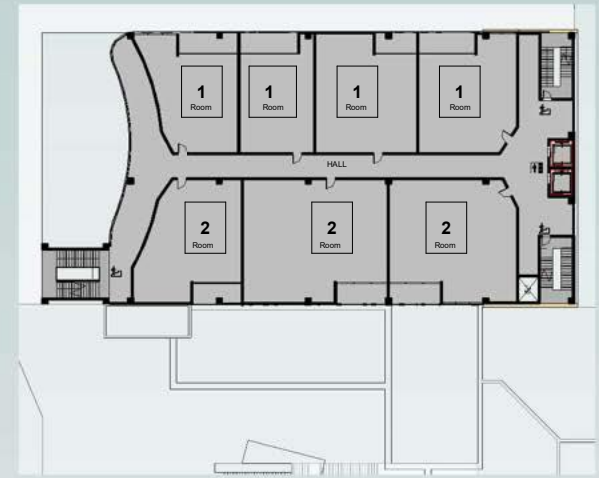
Floor Plan Level 4  
Day-Care Level

1/64" = 1' - 0" 




Floor Plan Level 5  
Day-Care Level

1/64" = 1' - 0" 



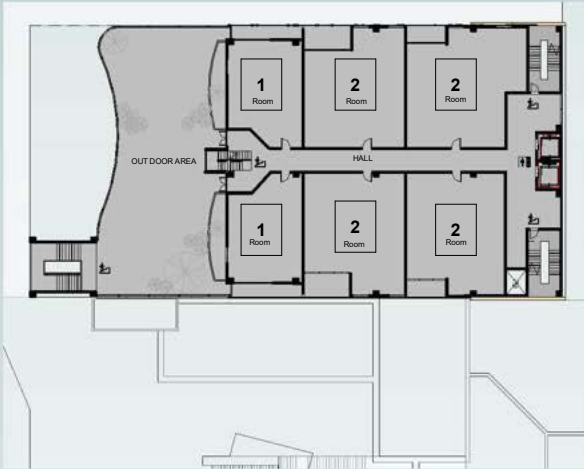
Floor Plan Level 6  
Apartment Level

1/64" = 1' - 0" 

62



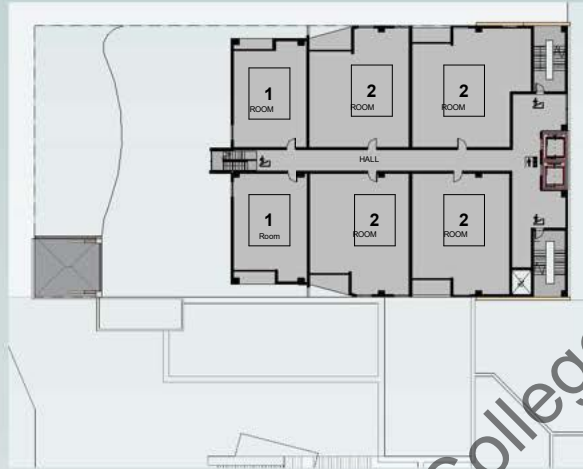
West Elevation  
1/64" = 1' - 0"



Floor Plan Level 7

1/64" = 1' - 0"

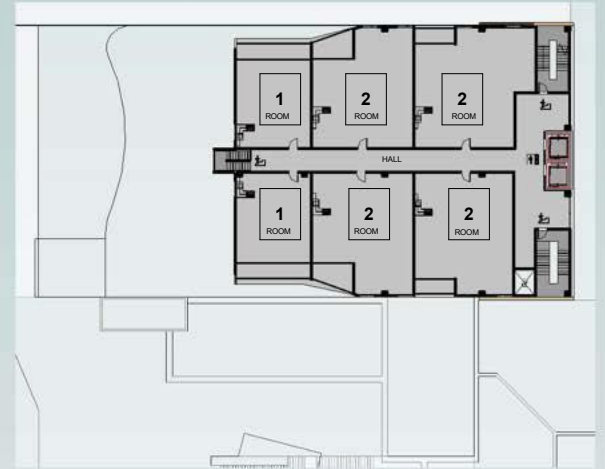
Apartment Level



Floor Plan Level 8

1/64" = 1' - 0"

Apartment Level



Floor Plan Level 9

1/64" = 1' - 0"

Apartment Level



Retails	Kinderarden 4-5
Lobby	Kinderarden 2-3
Stairs	Toddler daycare
Elevator	
Restrooms	
Trash Chuter	

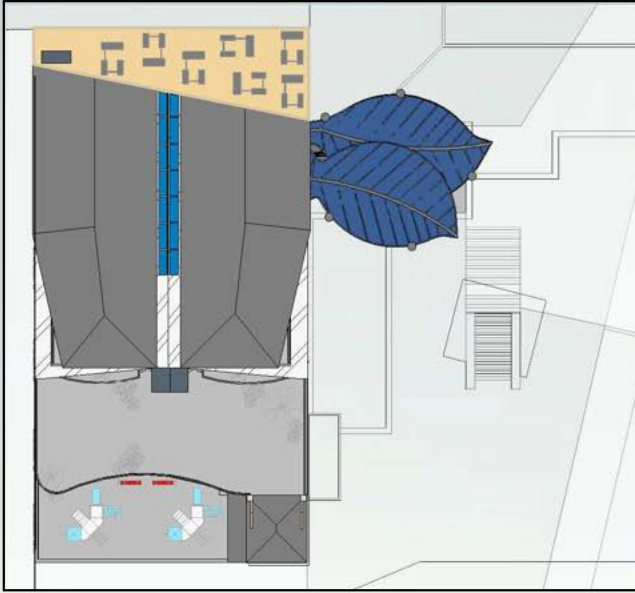
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Angel Esparza



East Elevation

1/64" = 1' - 0"

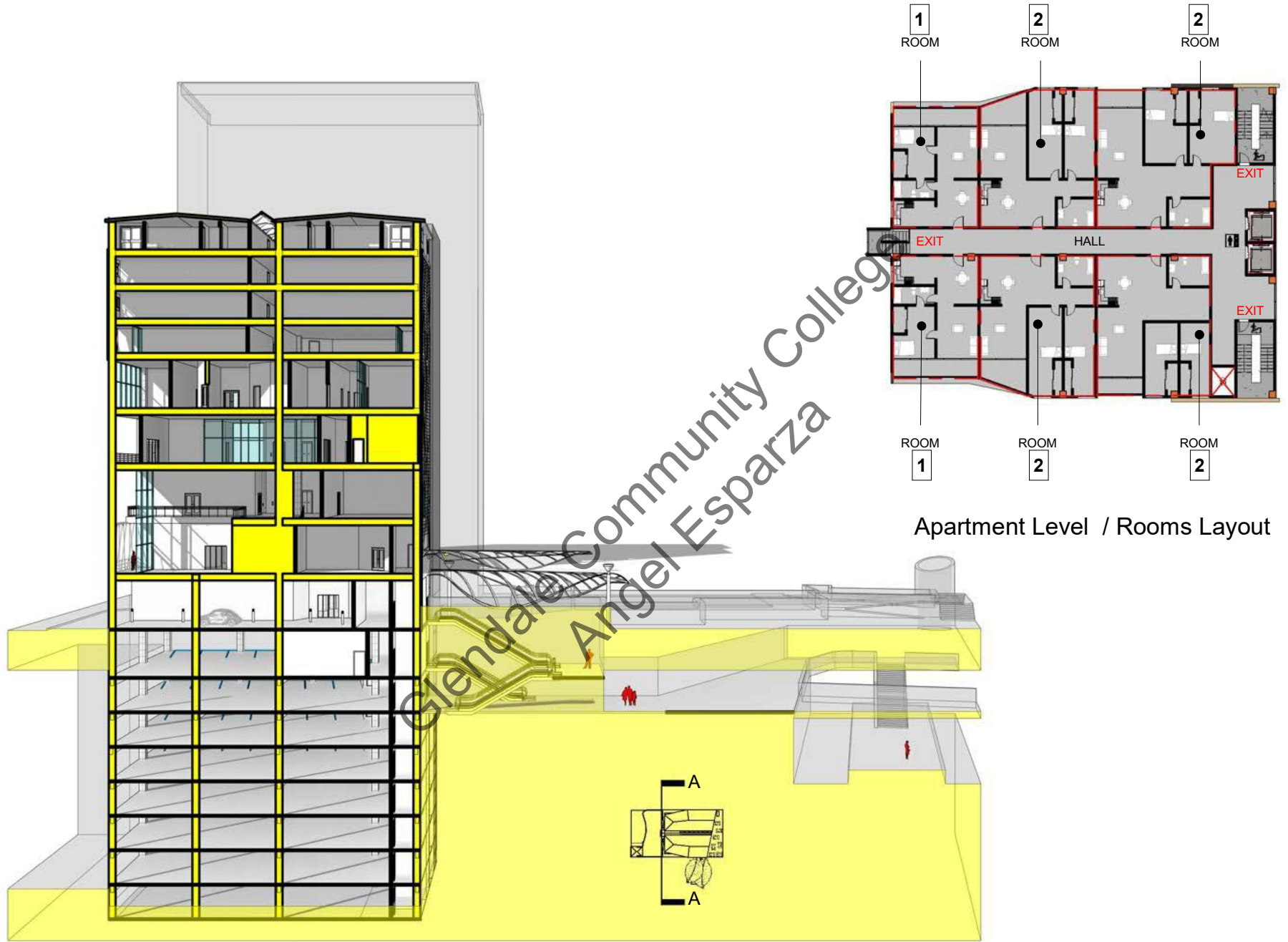
**SITE VIEW**



64

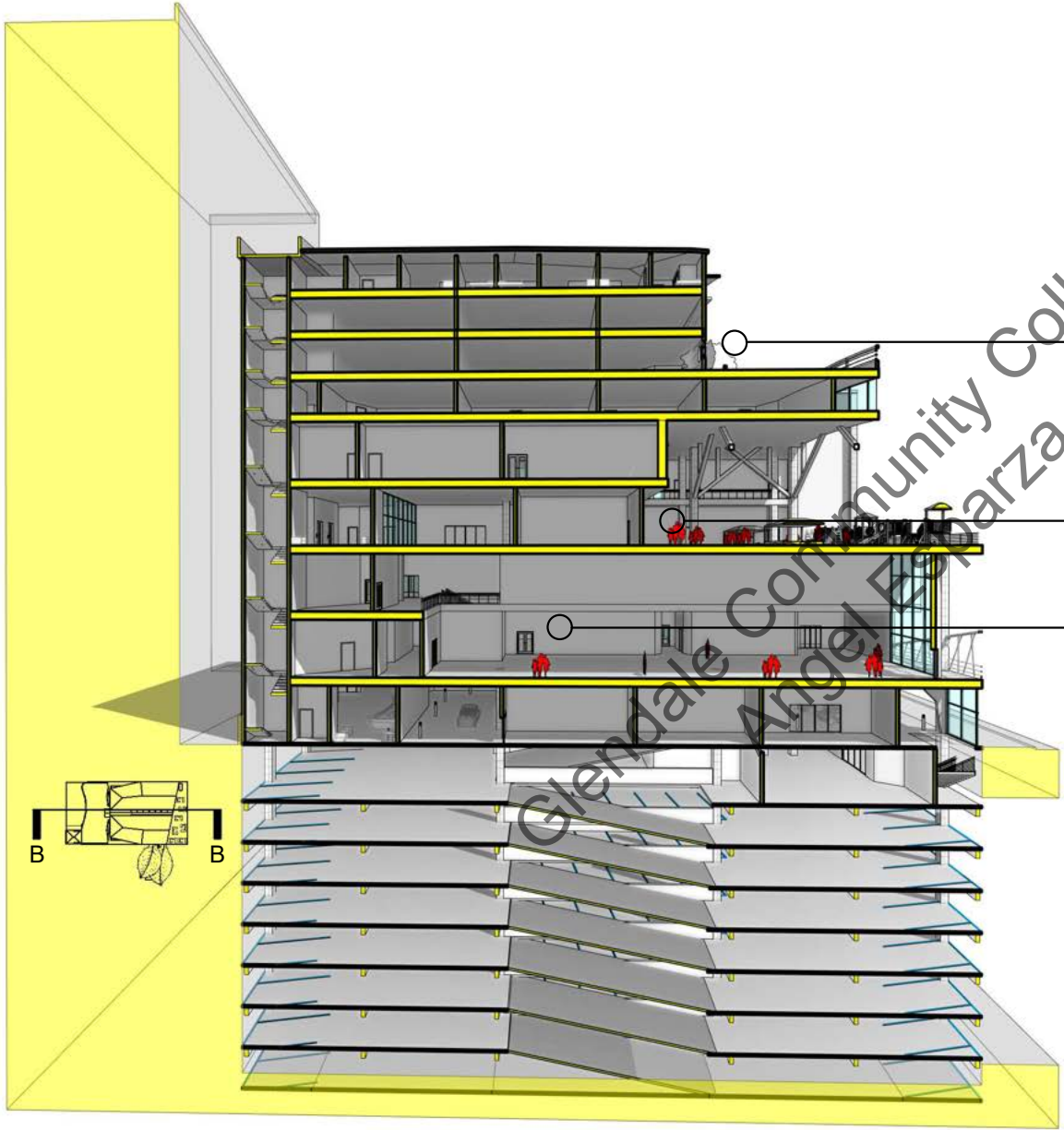


**SECTION CUTS & LAYOUT INFO**



Apartment Level / Rooms Layout

Section Cut A



Apartment Recreation View Area



DayCare View Area



Community Center

Section Cut B

**STREET VIEW**



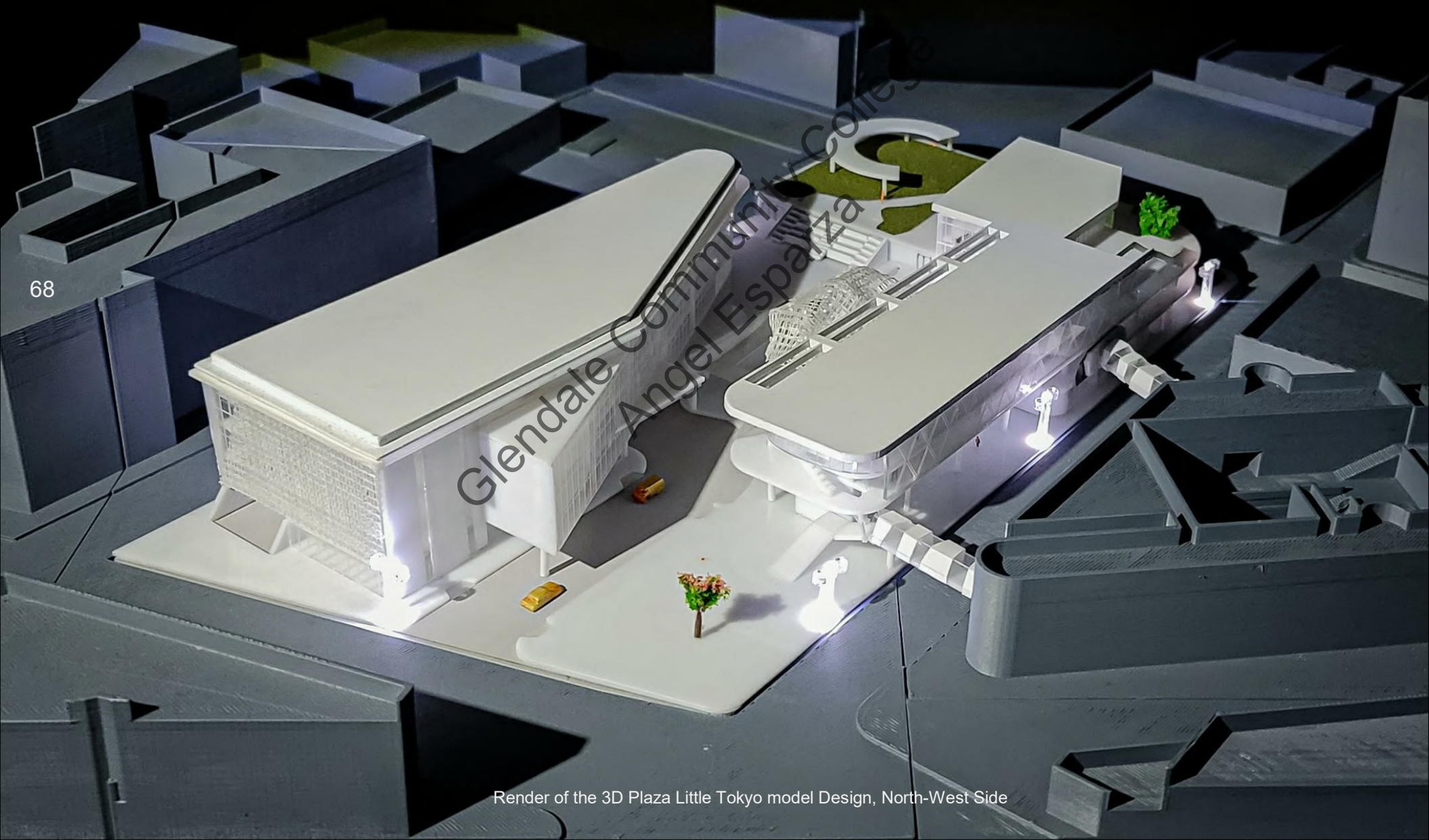
# MIX - USE COMMERCIAL ,LITTLE TOKYO PROJECT

236 Los Angeles St,  
Los Angeles, Ca  
90012



SCAN ME

68



Render of the 3D Plaza Little Tokyo model Design, North-West Side

## SITE LOCATION INFO



Plaza Little Tokyo was proposed worked in LA by second street with connection of the Weller court building . This project is a creation of a plaza mall to bring entertainment and comfort to the public.



1

7



24

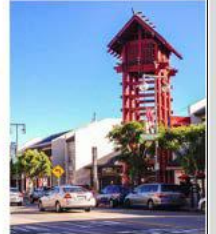
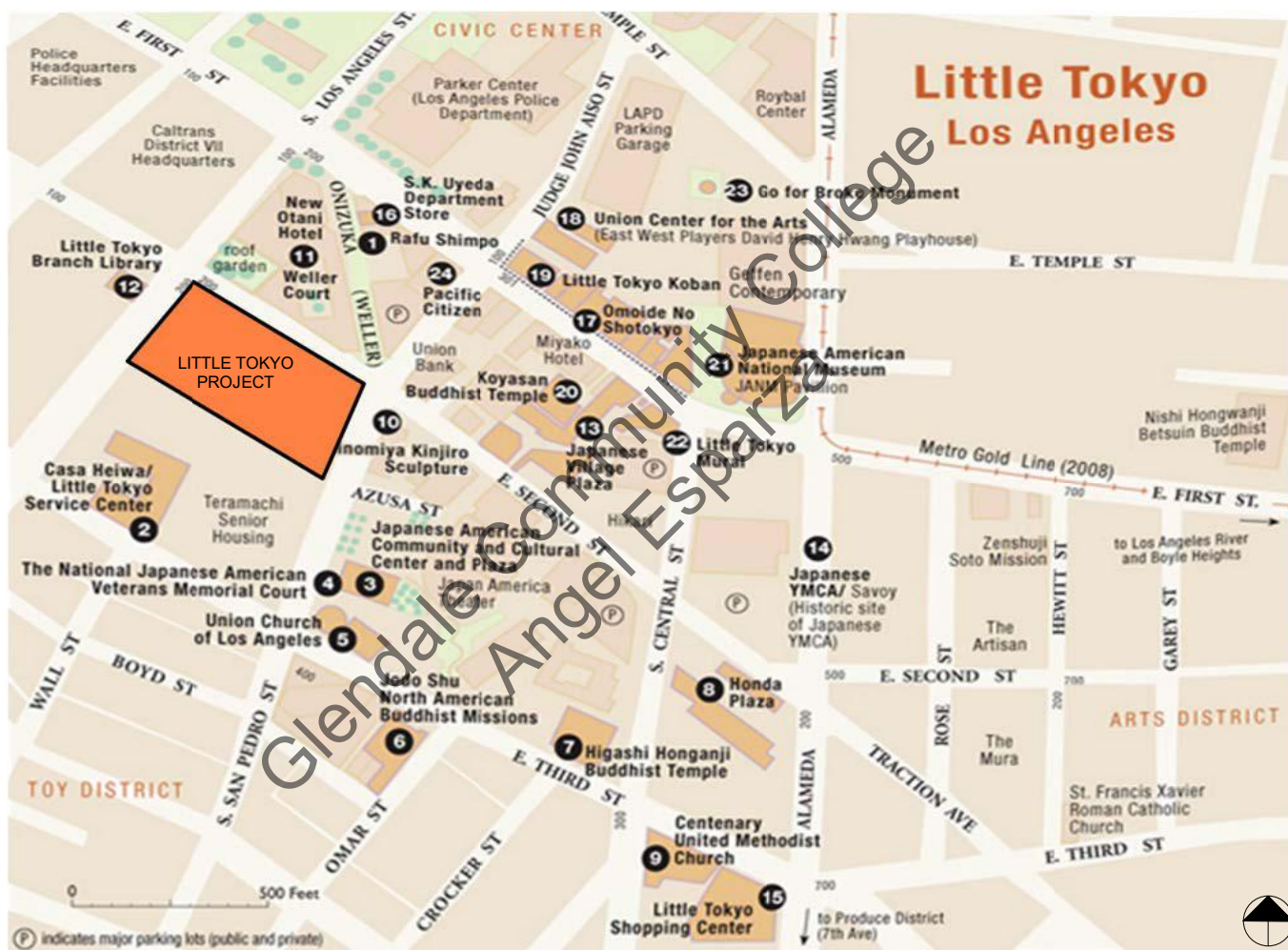
23

70

21

20

19



8

9

10

11

12

13

# SITE INFO DIAGRAM



**FIGURE GROUND DIAGRAM**

- LEGEND:
- PROJECT LOCATION



**OPEN SPACE DIAGRAM**

- LEGEND:
- RETAIL SHOPPING
  - OPEN SPACE-MUSEUM PLAZA
  - GARDEN(green area)



**VEHICULAR DIAGRAM**

- LEGEND:
- ONE WAY LINE TRAFFIC
  - TWO WAY LINE TRAFFIC



**PEDESTRIAN ACCESS DIAGRAM**

- LEGEND:
- CROSS WALK
  - SIDE WALK
  - ALLEY



**NEIGHBORHOOD DIAGRAM**

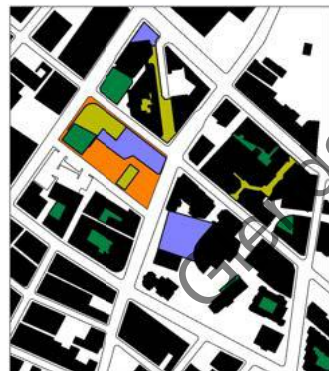
- LEGEND:
- RETAIL / APARTMENT MIX-USE
  - HOTEL
  - RETAIL
  - MUSEUM / CIVIC BUILDING
  - OFFICE BUILDING
  - PARKING LOT
  - PARKING STRUCTURE
  - RESTAURANT
  - LIBRARY
  - CHURCH

## Existing Diagrams



**FIGURE GROUND DIAGRAM**

- LEGEND:
- PROJECT LOCATION



**OPEN SPACE DIAGRAM**

- LEGEND:
- RETAIL SHOPPING
  - OPEN SPACE-MUSEUM PLAZA
  - GARDEN(green area)



**VEHICULAR DIAGRAM**

- LEGEND:
- ONE WAY LINE TRAFFIC
  - TWO WAY LINE TRAFFIC



**PEDESTRIAN ACCESS DIAGRAM**

- LEGEND:
- CROSS WALK
  - SIDE WALK
  - ALLEY



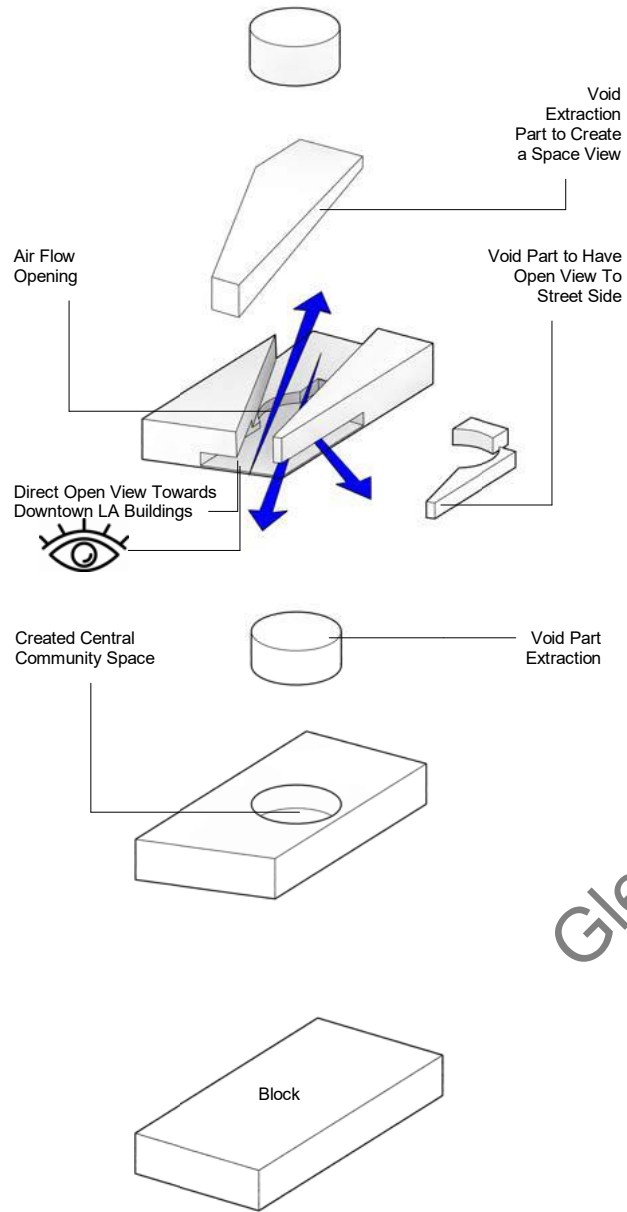
**NEIGHBORHOOD DIAGRAM**

- LEGEND:
- RETAIL/APARTMENT MIX-USE
  - HOTEL
  - RETAIL
  - MUSEUM / CIVIC BUILDING
  - OFFICE BUILDING
  - PARKING LOT
  - PARKING STRUCTURE
  - MOVIE THEATER
  - RESTAURANT
  - LIBRARY
  - CHURCH

## Proposed Diagrams

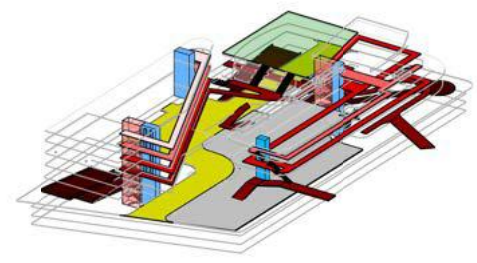
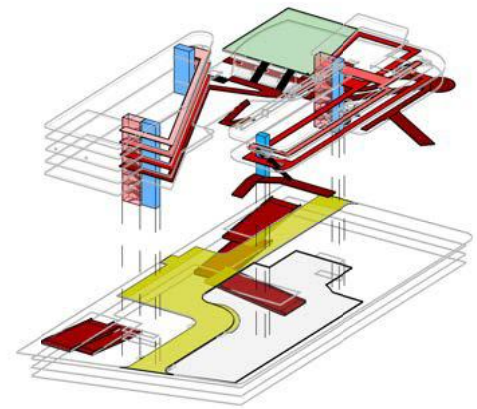
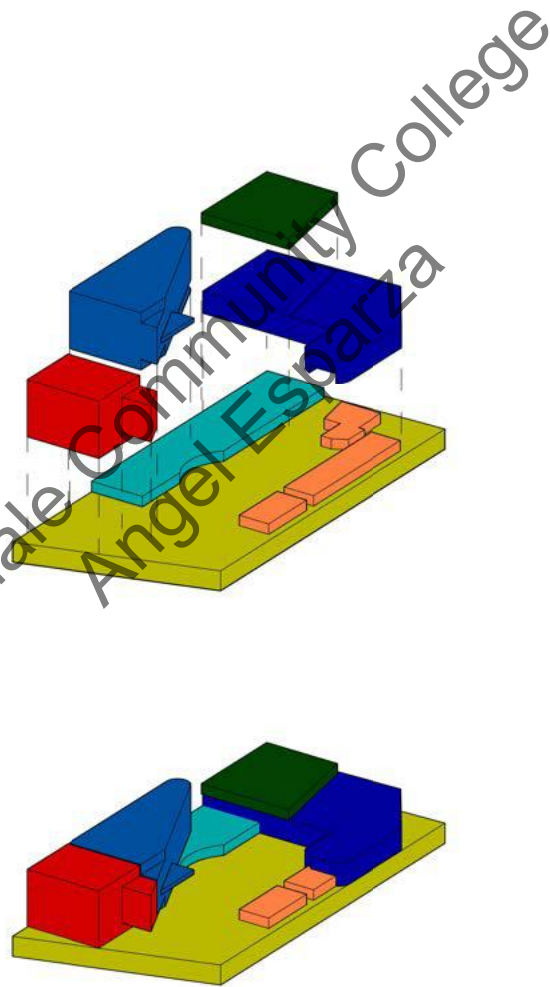
# CONCEPT DIAGRAMS

72



- OFFICES (wework rent offices)
- THEATER ZONE
- GREEN AREA (top garden)
- FAST FOOD KITCHEN AREA
- LOADING AND DROP-OFF ZONE
- RETAILS & RESTAURANTS AREA
- UNDER-GROUND PARKING

- GROUND LEVEL
- LEVEL 2
- LEVEL 3
- LEVEL 4
- LEVEL 5
- OPEN INTERACTIVE AREA
- DROP-OFF AREA
- GREEN TOP GARDEN AREA
- ELEVATORS SHAFTS
- STAIRS CONNECTIONS

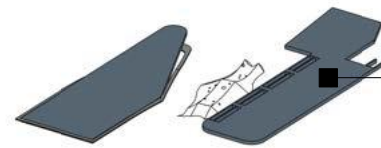
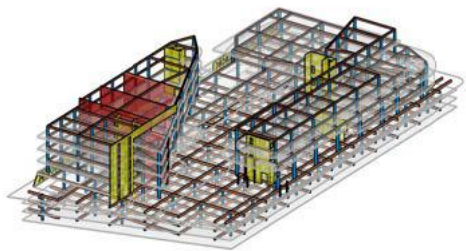
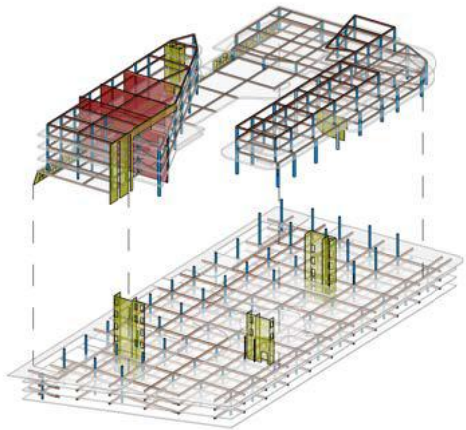


Parti Diagram

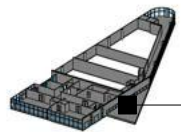
Program Diagram

Circulation Diagram

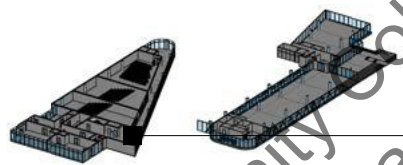
- BEAMS
- 2'-0" & 4'-0" DIAMETER COLUMNS
- FLOORS
- 1'-0" MASONRY WALL
- 0'-6" BEARING WALL



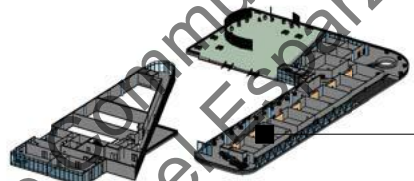
Top Roof



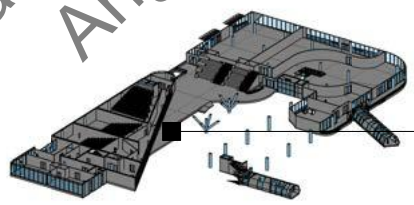
Floor Level 5



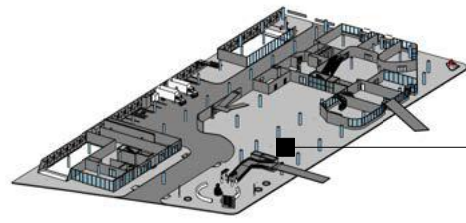
Floor Level 4



Floor Level 3



Floor Level 2



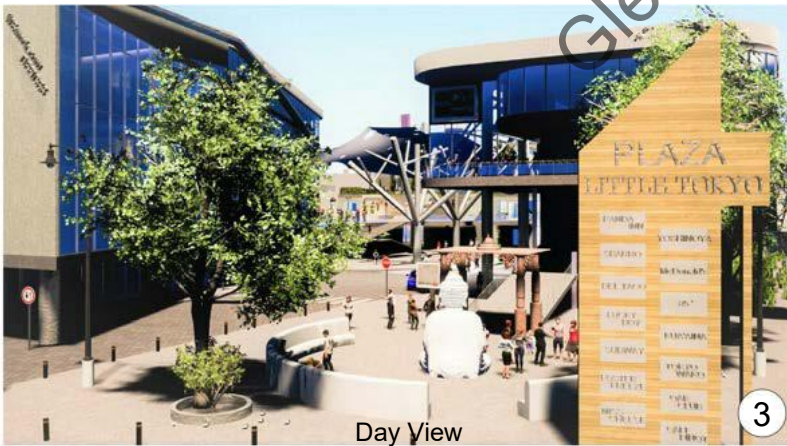
Ground Floor Level

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Angel Escarza

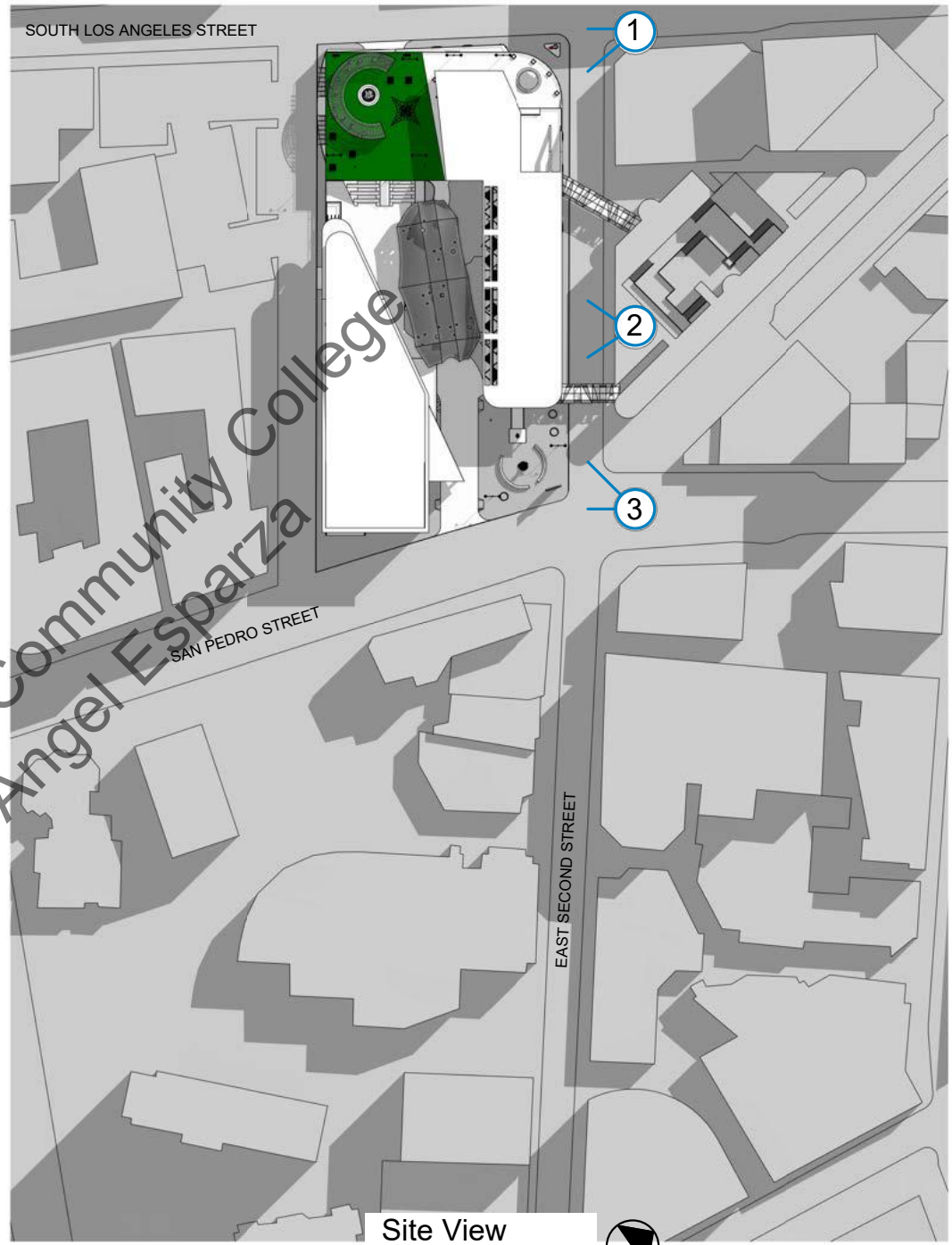
Structure Diagram

Exploded Diagram



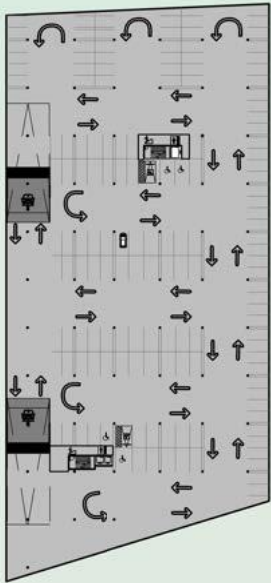


Day View



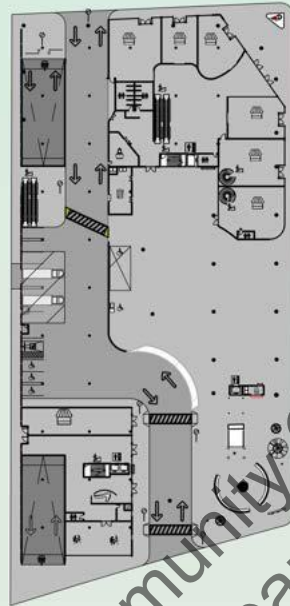
Site View  
1" = 60'-0"

# FLOOR PLANS & ELEVATION

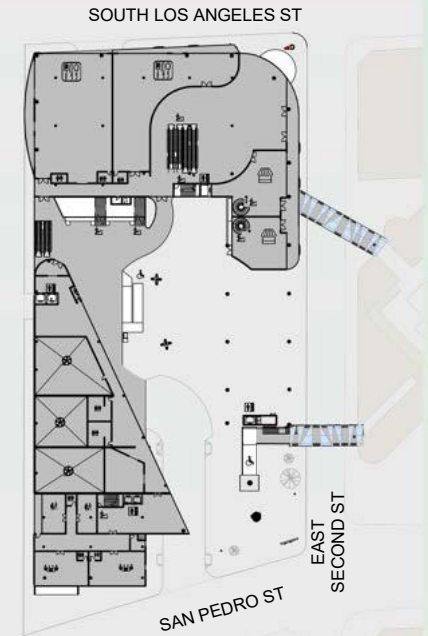


76

Underground Parking  
1" = 160'-0"



Ground Floor Level  
1" = 160'-0"



Floor Level 2  
1" = 160'-0"

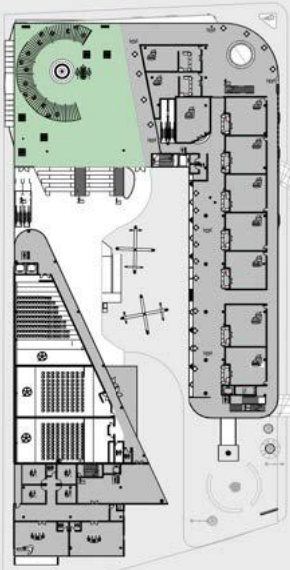


Glendale Community College  
Angel Esparza

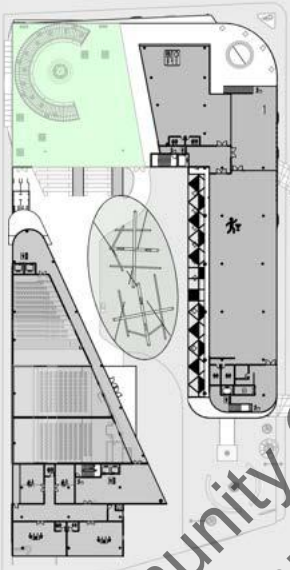
-  MOVIE ROOM THEATER
-  FAST FOOD
-  GARDEN OPEN AREA
-  SEATING FOOD COURT
-  OFFICE
-  CONFERENCE OFFICE
-  ACCESSIBILITY
-  RESTROOM
-  ELEVATOR
-  STAIRS
-  TRASH CHUTE
-  RETAIL
-  RESTAURANT
-  ACCESS CAR RAMP
-  MAINTENANCE ROOM
-  CLUB



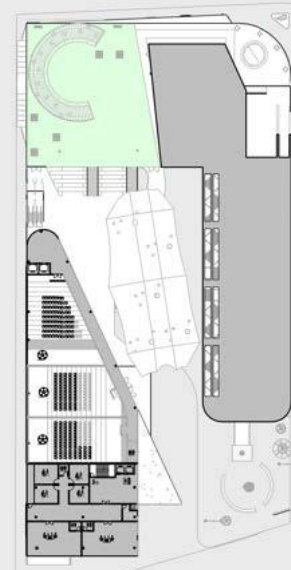
East-North Elevation  
1" = 60'-0"



Floor Level 3  
1" = 160'-0"



Floor Level 4  
1" = 160'-0"



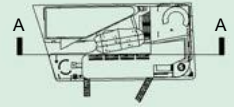
Floor Level 5  
1" = 160'-0"

Glendale Community College  
Angel Esparza



West-South Elevation  
1" = 60'-0"

**SECTION CUTS & ELEVATIONS**



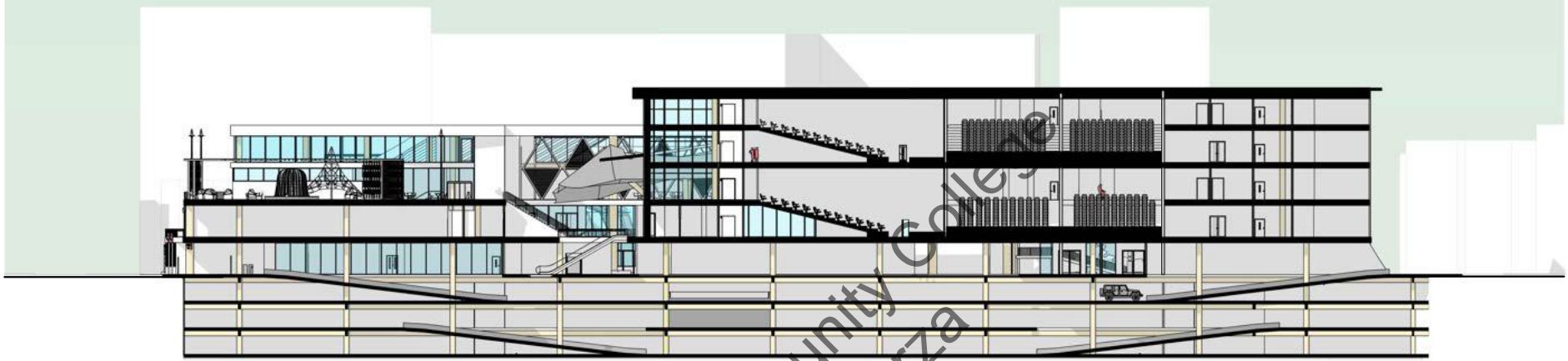
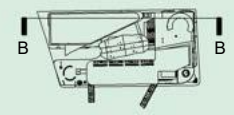
78

Section Cut A

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Angel Esparza



North-East Elevation  
1" = 60'-0"



Section Cut B

Glendale Community College  
Angel Esparza

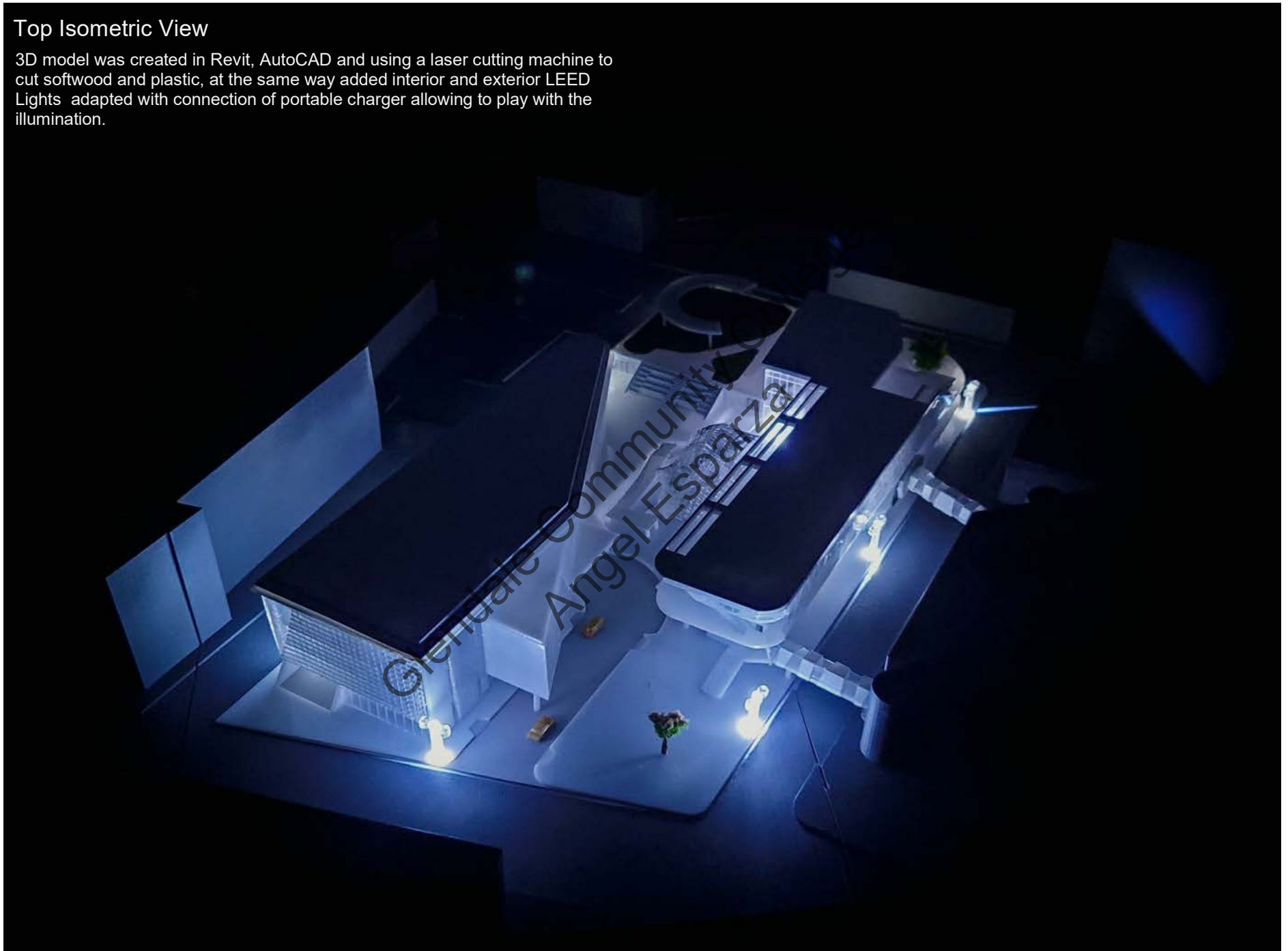


South-West Elevation  
1" = 60'-0"

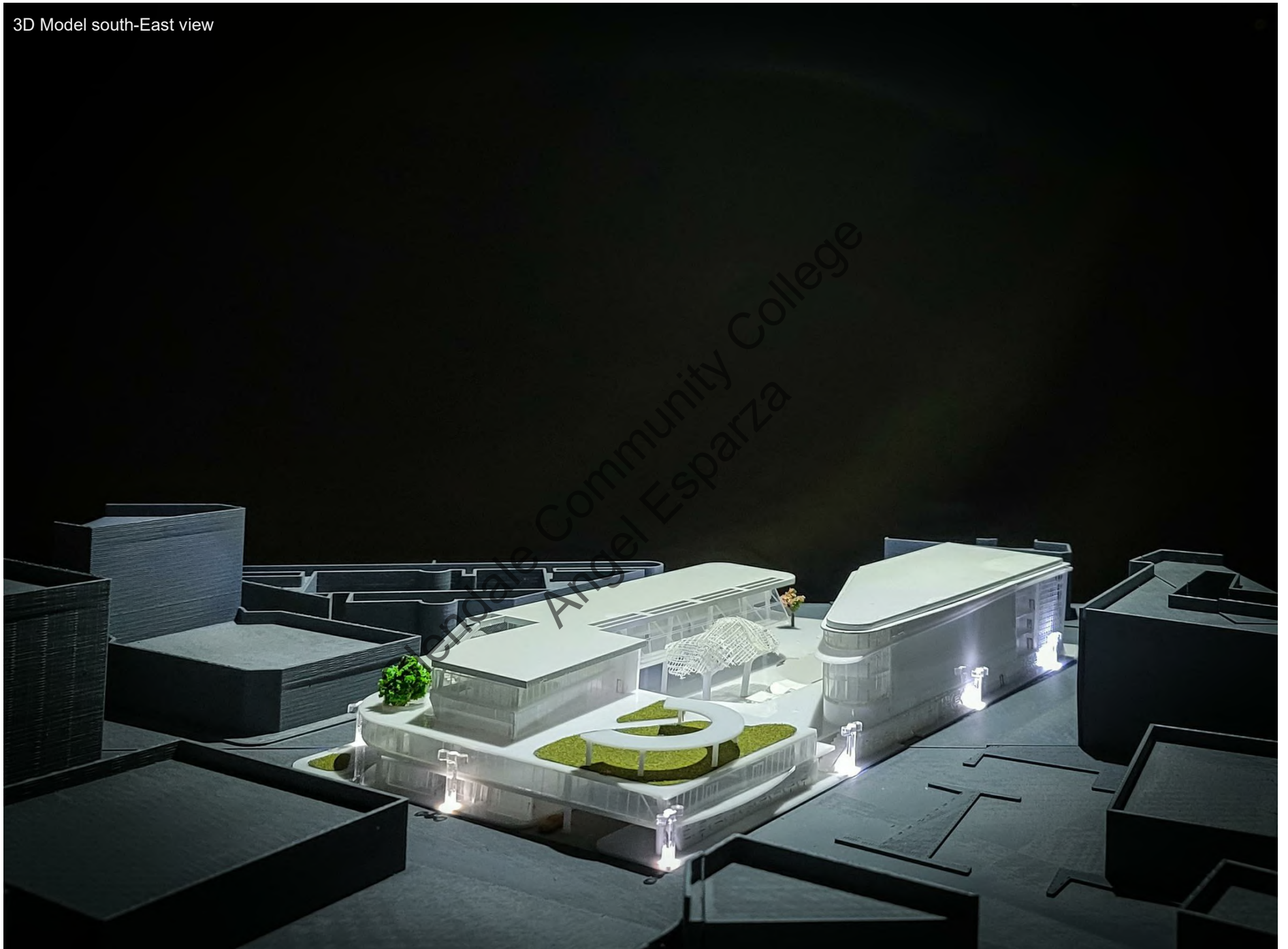
### 3D MODEL PROJECT DESIGN

#### Top Isometric View

3D model was created in Revit, AutoCAD and using a laser cutting machine to cut softwood and plastic, at the same way added interior and exterior LEED Lights adapted with connection of portable charger allowing to play with the illumination.



3D Model south-East view



# BIRDBOX GARDEN SENIOR HOUSE

520 Pico Blvd,  
Los Angeles, CA.



SCAN ME

82



3D Model render, front building senior house design.

## DESCRIPTION PROJECT & VICINITY MAP



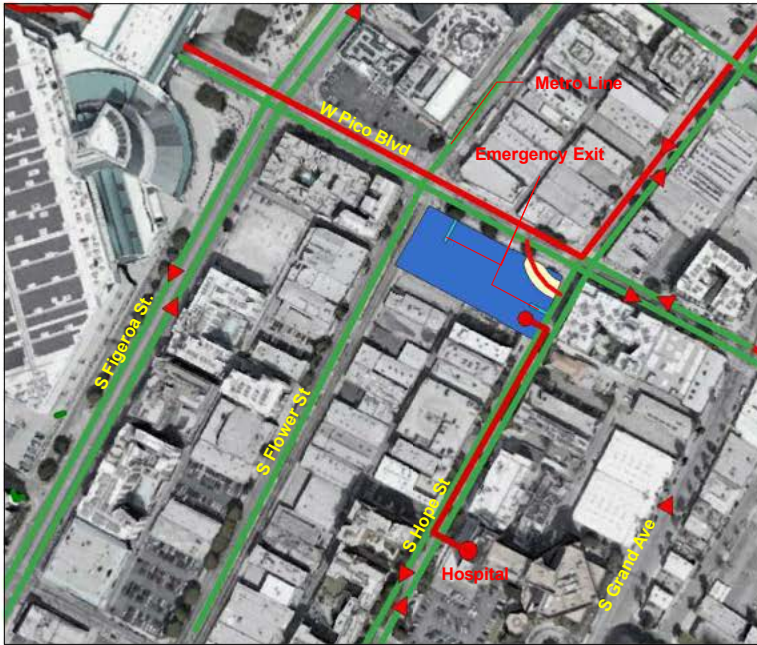
### 1: Scope of Work:

Students are asked to design and propose a brand new residential Mixed-use 75 feet total height midrise building for Senior housing mix-used project. The address is 520 Pico Blvd, Los Angeles, CA. the corner of Pico Blvd, and South Flower Street, a block away from the Los Angeles Convention Center nearby Pico Metro Blue line metro station. The area of the site is 46,269sq ft. or 1.06 acre of land since 1 acre = 43,560 sq ft.

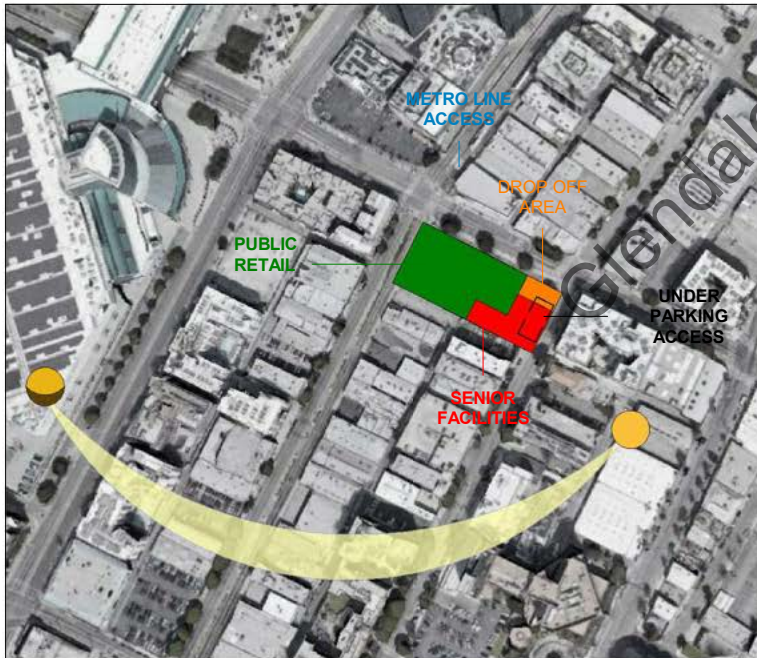
### 2: Project Objectives:

- To develop a thoughtful housing type responsive to local lifestyles and concerns unique to the greater metropolitan Los Angeles area.
- To identify active and effective dwelling spaces that emphasize the influence of human scale, compositional coherence and contextual compatibility.
- To illustrate that medium-density housing units can be tied to urban issues derived from site contours, neighborhood amenities, building orientation, prevailing patterns of movement, and a desire for natural light, ventilation and physical access.
- To employ design strategies that enhance or articulate clear and distinct relationships between interior and exterior space.
- To explore imaginative uses for available materials and thoughtful means for the application of structural systems.
- To establish that special issues linked to the disabled community introduce design opportunities and suggest solutions that stimulate rather than impede the formation of creative accessible environments

## REGION & PROPOSED INFORMATION



Traffic Analysis

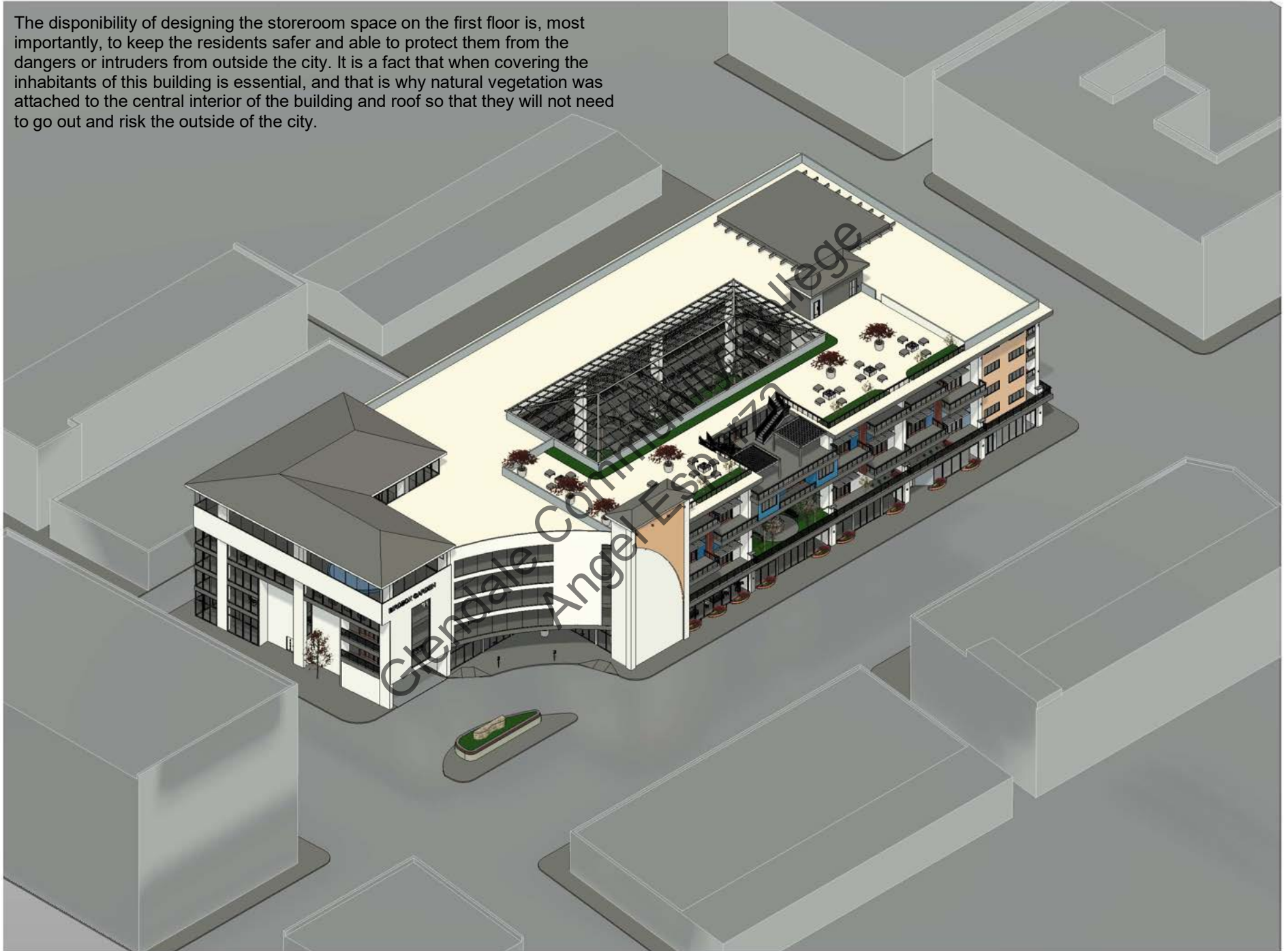


Site Analysis

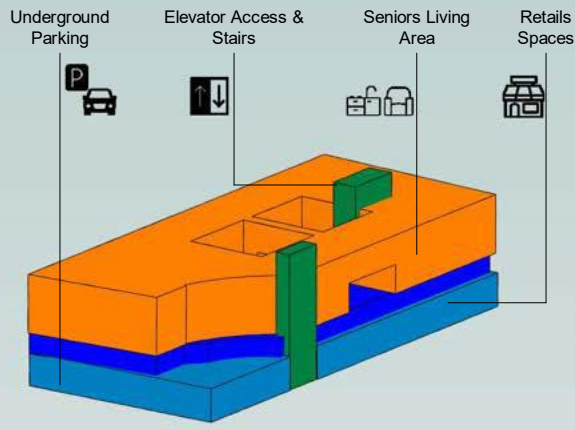
Total Number of units	53
Unit types	16 [two bedroom units] @ 750 sf 36 [one bedroom units] @ 625 sf 1 [three bedroom unit] @ 1,150 sf
Unit balcony	50 sf per unit [all living must have balcony]
Common open area	50% of the open area must be planted
Shared Facilities	<p>Entry lobby with elevators [two] with connections to shared facilities and connected to street with full security screening @ 500 sf</p> <p>Total of 2 [Offices for administration and manager with visual connection to entry lobby and a counter opening to general circulation] @ 120 sf each</p> <p>Lounge, Activity and community room [including kitchen with access to the exterior shared activity spaces: Lounge space @ 250 sf Community room with direct access to lobby / main circulation and access to kitchen support area [600 sf + 100 sf kitchen] = 700 sf</p> <p>Fitness Room @ 500 sf Laundry Room @ 250 sf per living unit floor Technical Room @ 200 sf</p> <p>Trash shoot @ 25 sf per living unit floor. The shoot has to directly above the trash enclosure of the building.</p> <p>Trash enclosure @ 100 sf Electrical closet @ 100 sf Storage @ 100 sf Maintenance Room and Toilets @ 400 sf</p>
Store Front Area	The depth of the store front unit min 40' deep x 15' wide.
Parking spaces	1 parking spaces for each living units = 53 spaces 10 accessible parking spaces for senior housing. 2 accessible parking space for retail space. Total Parking 200 Parking spaces including accessible spaces.
Drop off area	No more than 2,000 sf
Ground level parking and subterranean parking	Parking spaces: 90 degrees parking 9'-0" width by 18'-0" length

## ISOMETRIC 3D VIEW

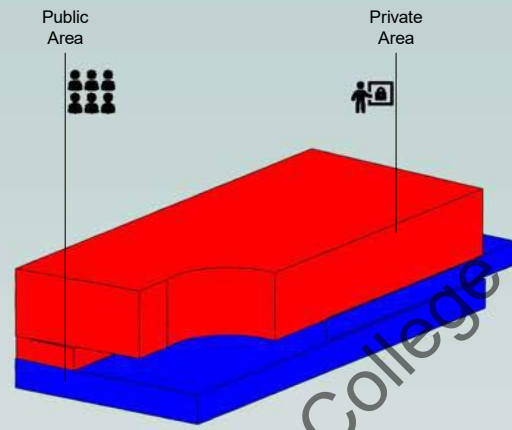
The disponibility of designing the storeroom space on the first floor is, most importantly, to keep the residents safer and able to protect them from the dangers or intruders from outside the city. It is a fact that when covering the inhabitants of this building is essential, and that is why natural vegetation was attached to the central interior of the building and roof so that they will not need to go out and risk the outside of the city.



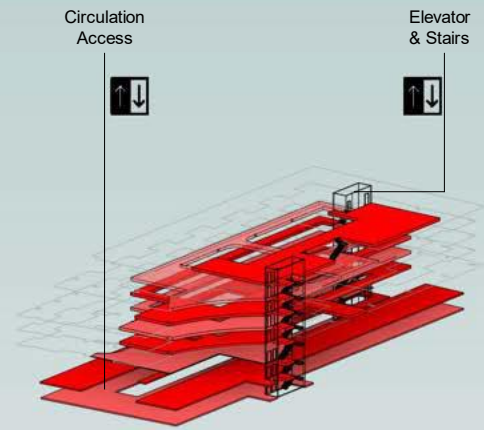
# DIAGRAMS & ELEVATIONS



Parti Diagram



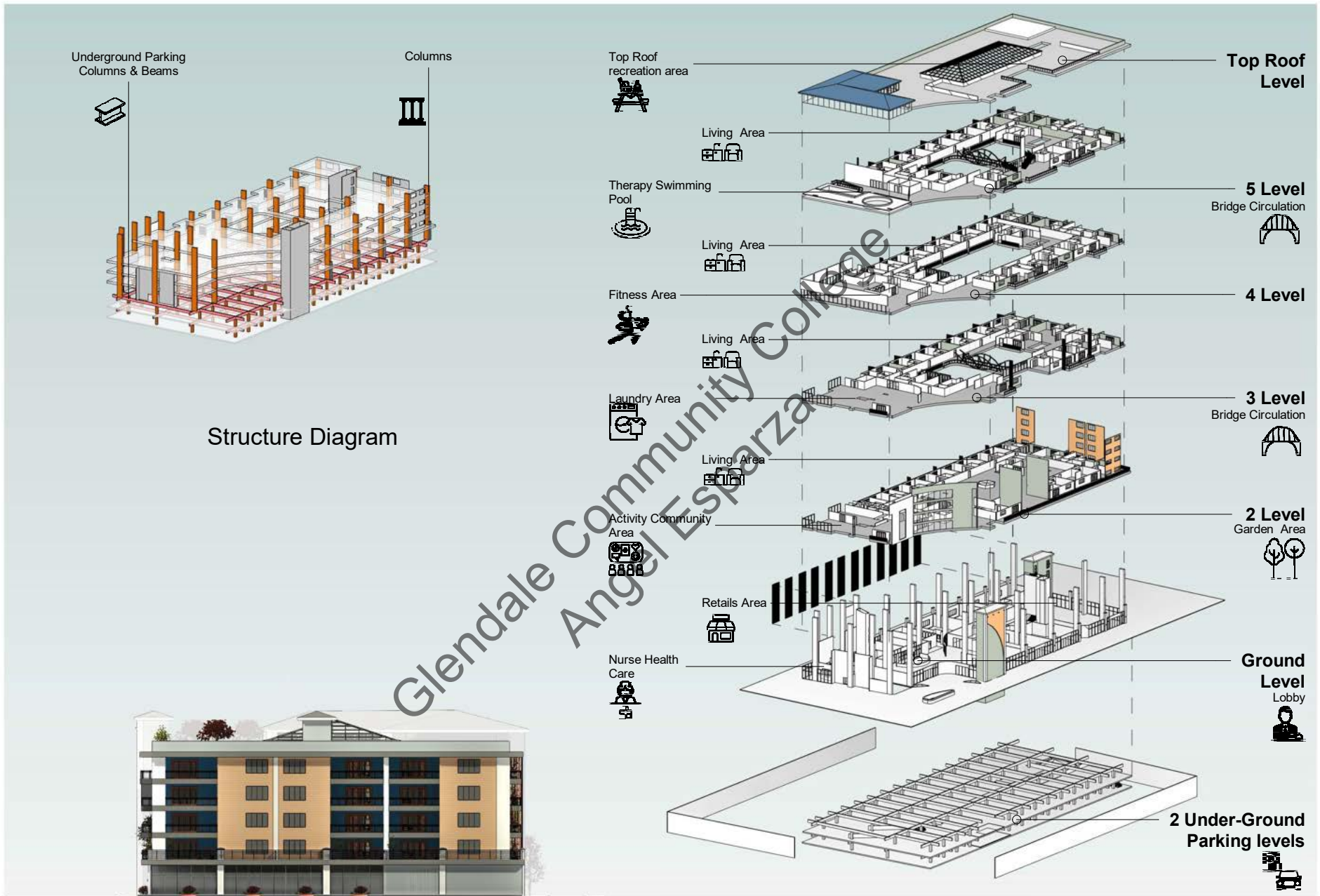
Program Diagram



Circulation Diagram

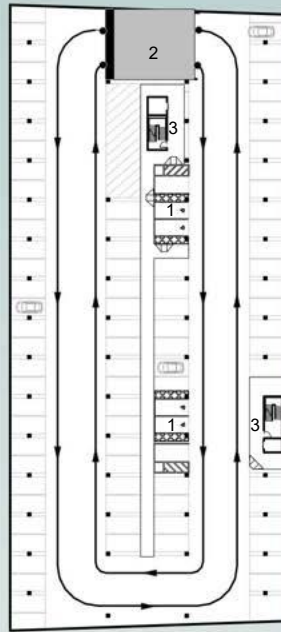


East Elevation  
1" = 50' - 0"

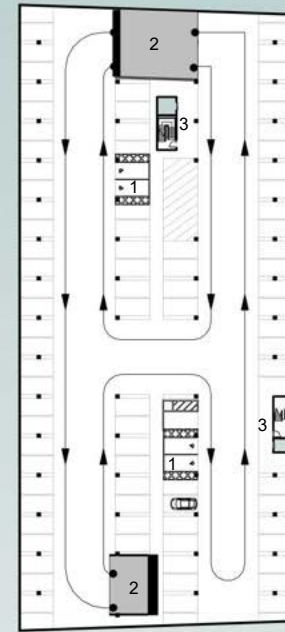


Glendale Community College  
Angel Esparza

# FLOOR PLANS & ELEVATIONS



- 1. Handicap Space
- 2. Ramp
- 3. Elevator & Stairs



Underground Parking 1

1" = 100' - 0"



Underground Parking 2

1" = 100' - 0"



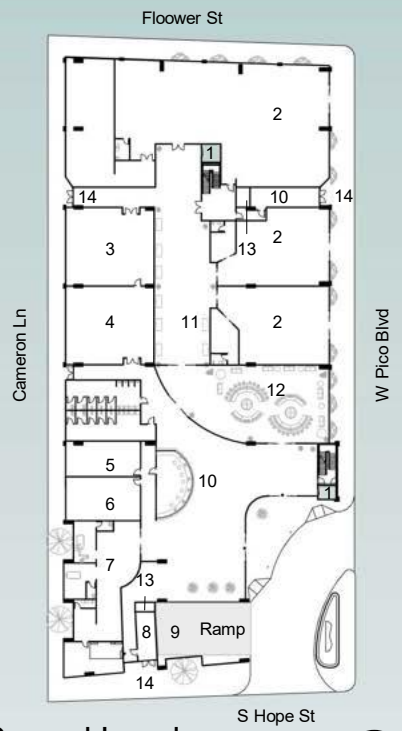
88

Glendale Community College  
Angel Esparza



North Elevation

1" = 50' - 0"

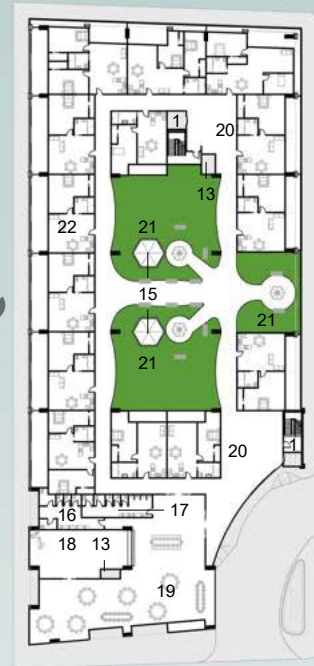


Ground Level

1" = 100' - 0"



1. Elevator & Stairs
2. Retail
3. Maintenance Room
4. Technical Room
5. Manager Office
6. Administration Office
7. Nurse Care Department
8. Trash Removal Access
9. Underground Parking Access
10. Lobby
11. Vendor Sale Area
12. Lounge Area
13. Trash Chute
14. Emergency Exit
15. Sky Light Opening
16. Men's Restroom
17. Women's Restroom
18. Kitchen
19. Activity Community Room
20. Nurse Station
21. Garden Area
22. Rooms Around Similarly



Second Level

1" = 100' - 0"

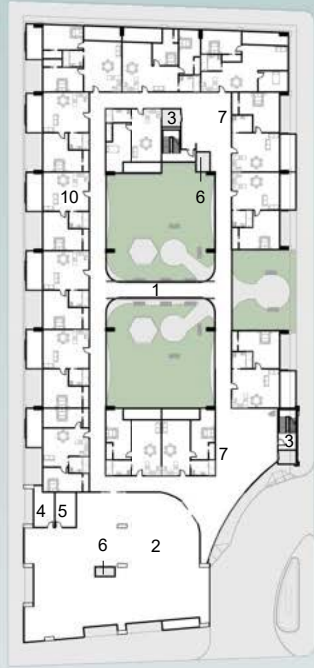


South Elevation

1" = 50' - 0"

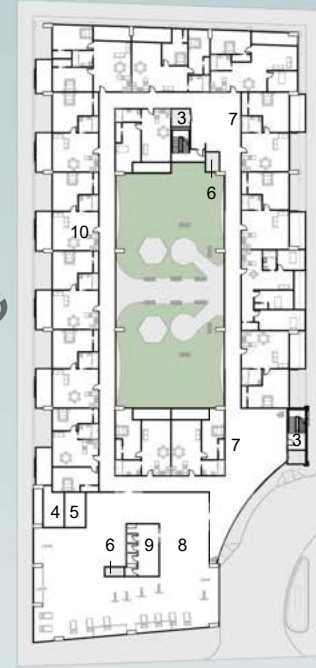
Glendale Community College  
Angel Esparza

# FLOOR PLANS & SECTIONS CUT

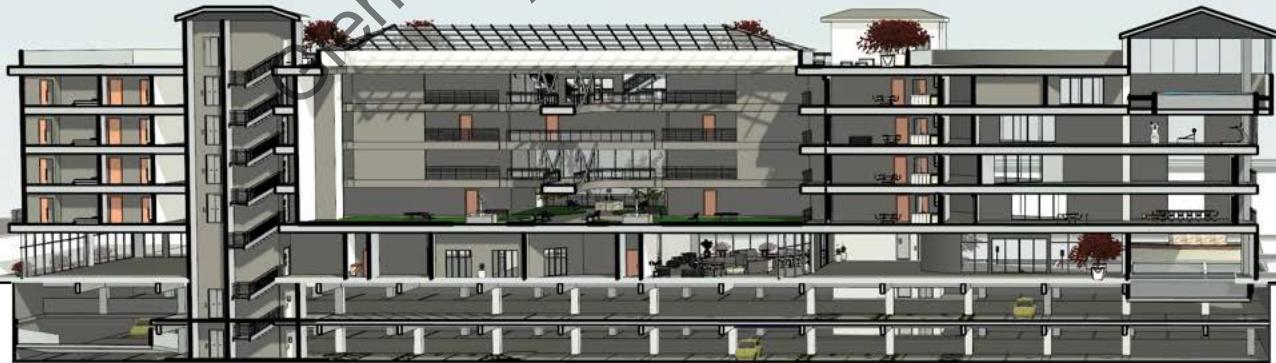


Third Level  
1" = 100' - 0"

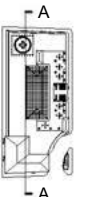
1. Bridge
2. Laundry Area
3. Elevator & Stairs
4. Men's Restroom
5. Women's Restroom
6. Trash Chute
7. Nurse Station
8. Fitness Area
9. Dressing Room
10. Rooms Around Similarly



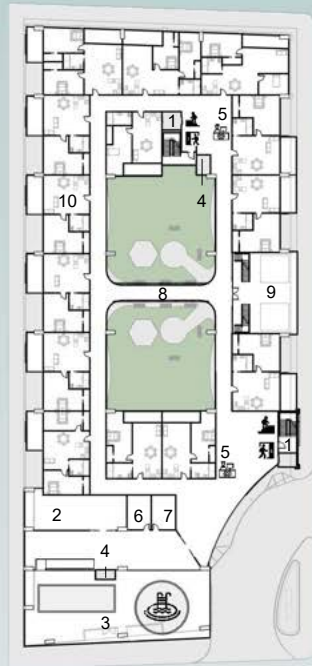
Fourth Level  
1" = 100' - 0"



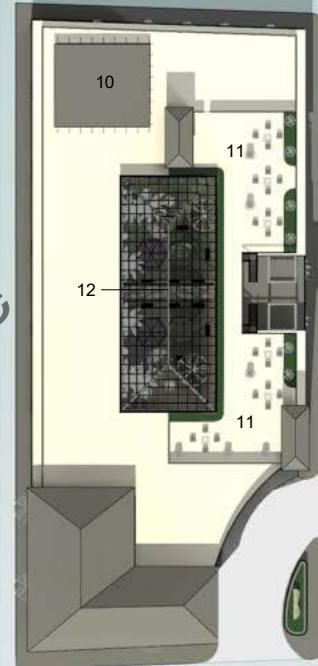
Section Cut A  
1" = 50' - 0"



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- 1. Elevator & Stairs
- 2. Therapy Room
- 3. Therapy Swimming Pool Area
- 4. Trash Chute
- 5. Nurse Station
- 6. Women's Restroom
- 7. Men's Restroom
- 8. Bridge
- 9. Open Balcony Area
- 10. Helicopter Roof Land
- 11. Top Garden Area
- 12. Sky Light Structure



**Fifth Level**  
1" = 100' - 0"



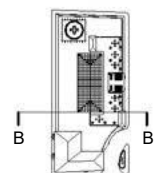
**Site View**  
1" = 100' - 0"

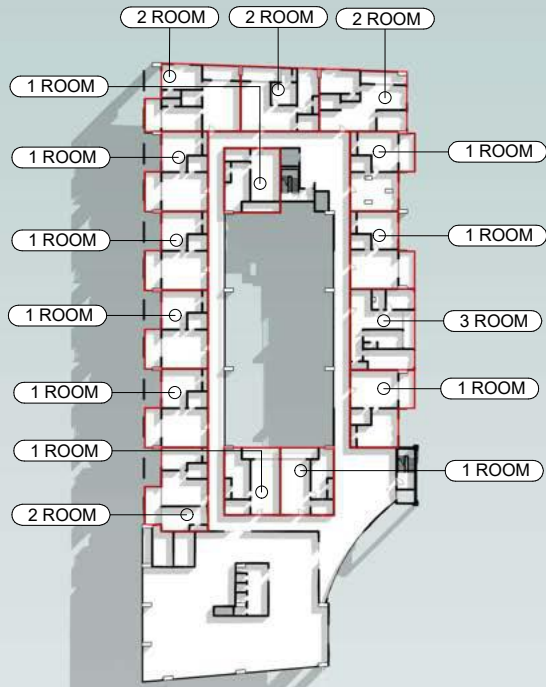


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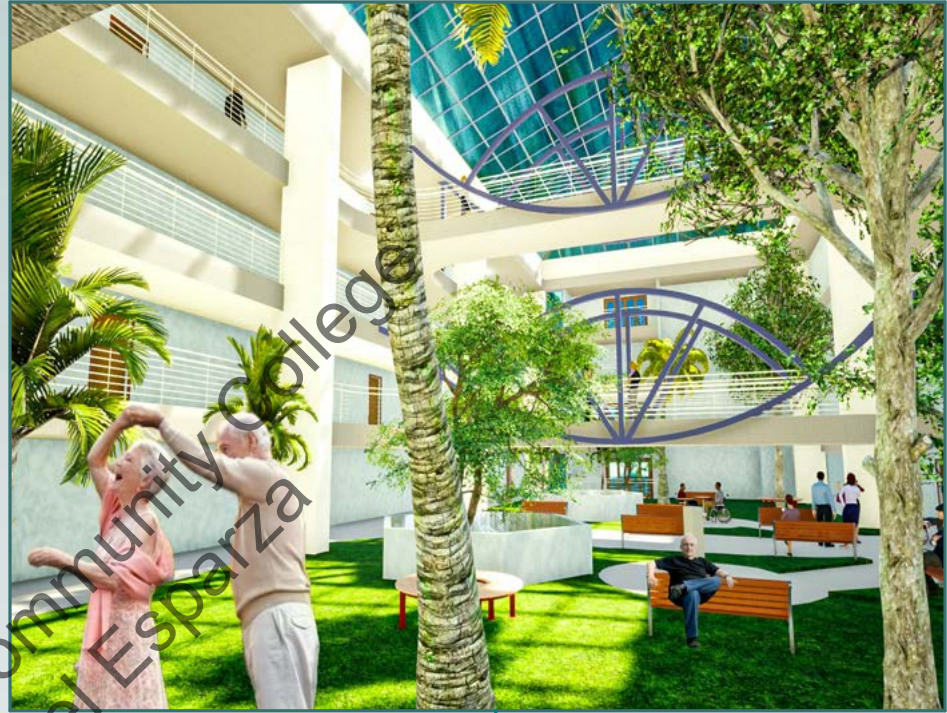


**Section Cut B**  
1" = 50' - 0"

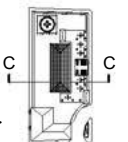




Typical Room Layout



Section Cut C  
1" = 50'-0"





Therapy Swimming Pool



Fitness Area



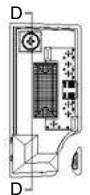
Activity Community Area



Lobby Area

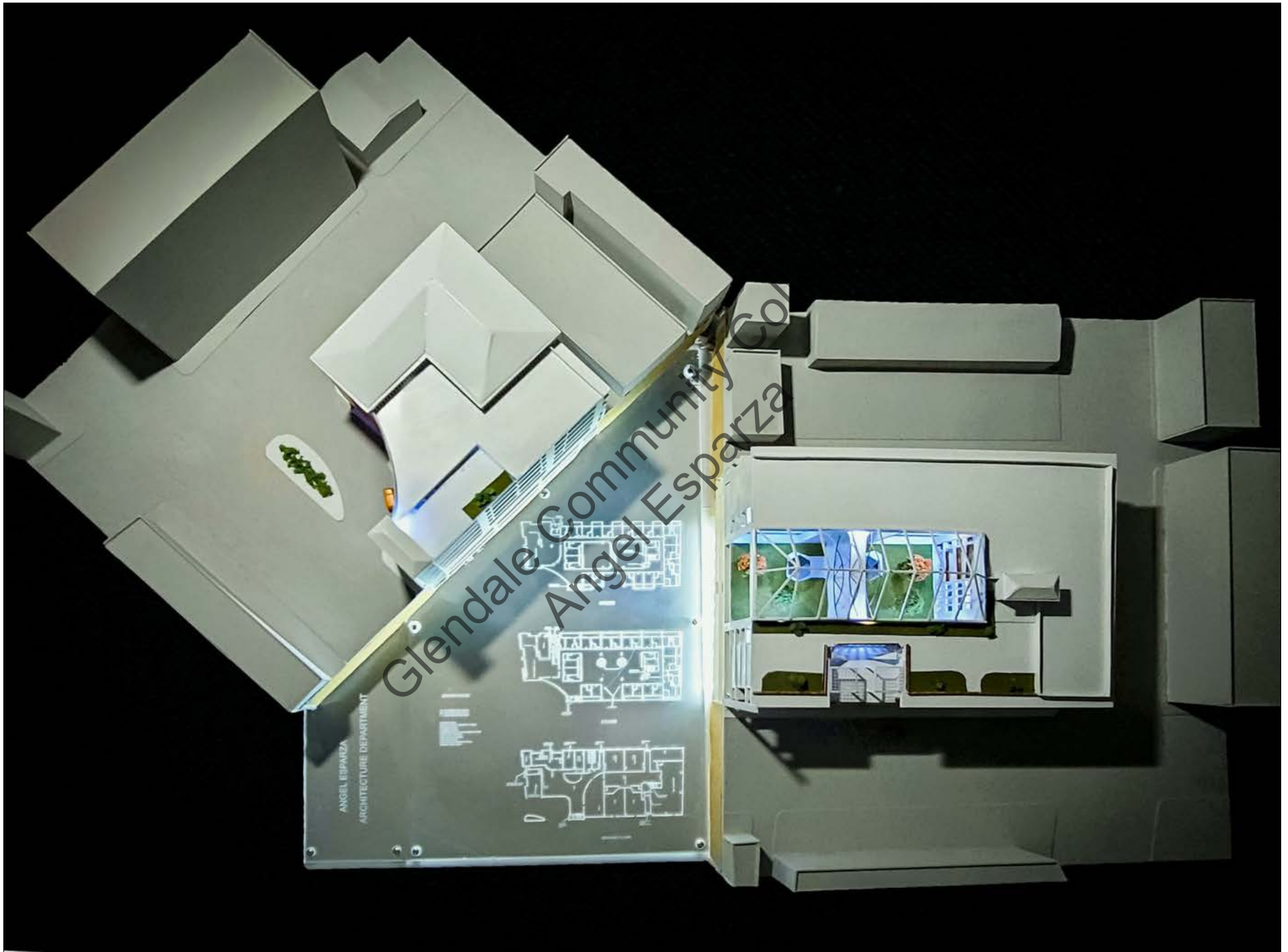


Section Cut D  
1" = 50'-0"



**3D MODEL SECTION CUT DESIGN**

94





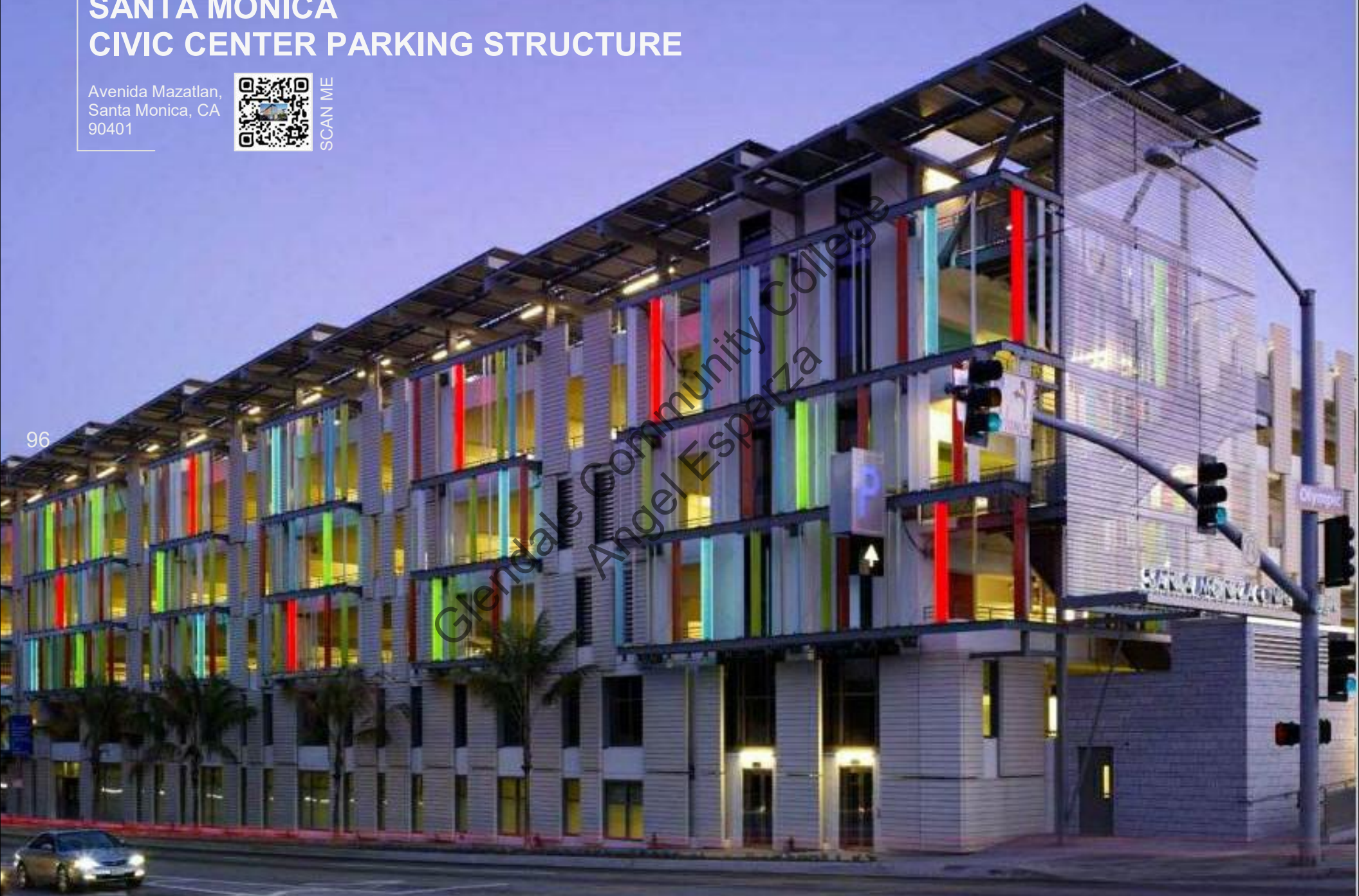
This 3D model was created with softwood and laser cut to form this model. Lights (LEED) were added in detail inside to perfect the lighting. The (LEED) Lights were attached to a portable charger and provided a long time of illumination. Floor plans are engraved on a transparent plastic so that the (LEED) light produce better projected visibility to this 3D design model. Similarly, a two-part design was made and assembled to present a sectional cut of the entire building capable of splitting and opening for a better view.

# SANTA MONICA CIVIC CENTER PARKING STRUCTURE

Avenida Mazatlan,  
Santa Monica, CA  
90401



SCAN ME



Glendale Community College  
Angel Esparza

## PROJECT INFORMATION

### Project Overview

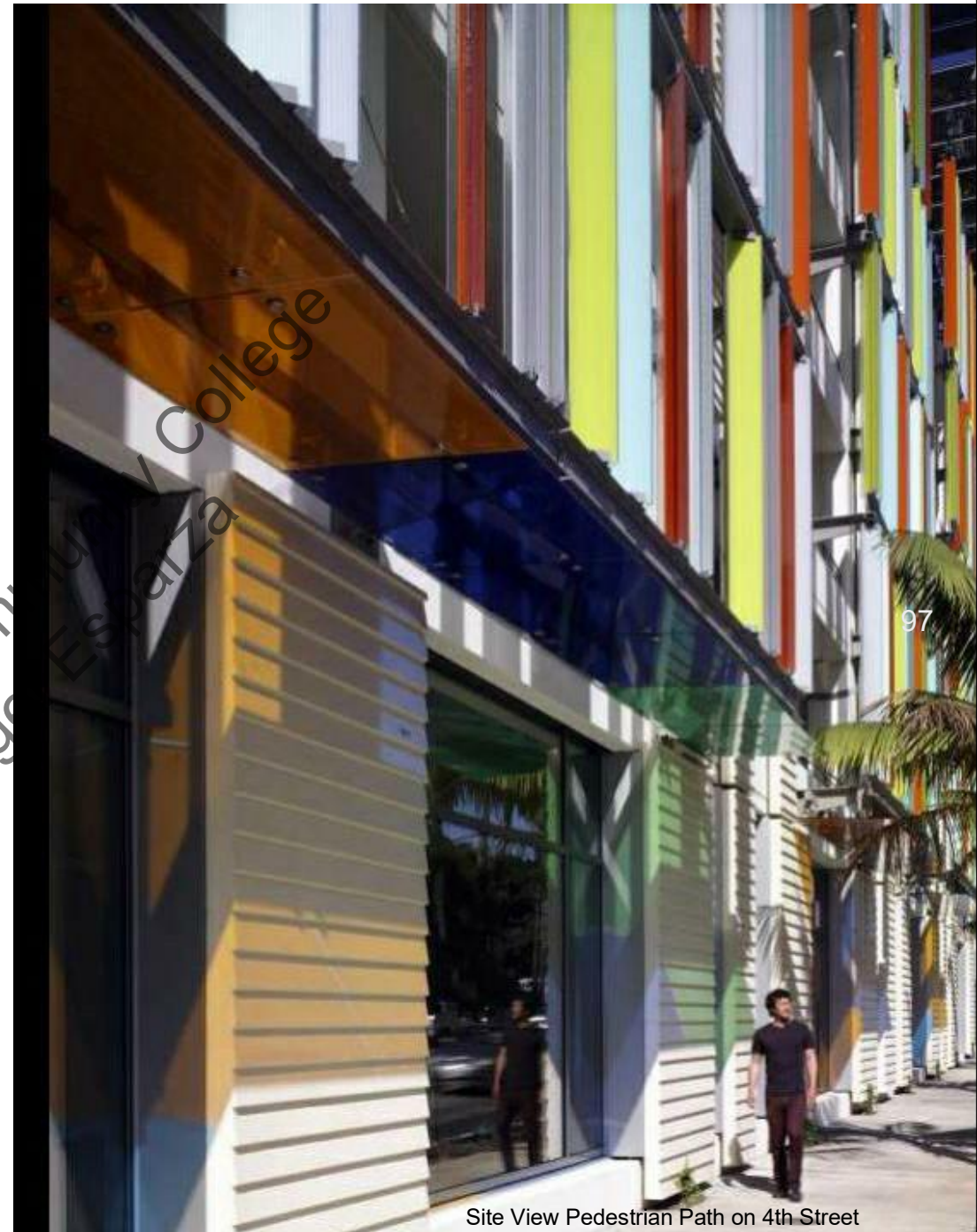
The Civic Center Parking Structure is located at 333 Civic Center Dr. (corner of Olympic Drive and 4th Street) providing close access to the Civic Auditorium, City Hall, the Public Safety Building, and the County Courthouse. It is also a short walk from the 3rd Street Promenade, newly re-opened Santa Monica Place, and the rest of Santa Monica's central business district.

This construction embodies the City's commitment to sustainability, and establishes a new aesthetic monument in Santa Monica. The parking structure is the first building of its type in the country to receive a LEED-Certified rating through the U.S. Green Building Council. The building features design strategies, materials, products, and construction practices that preserve natural resources, conserve water and energy, and reduce waste. parking view

LEED Element: Energy In order to establish a strong presence within the city's cluster of civic buildings, this structure was conceived as much more than a traditional parking garage—rather, a functionally dynamic celebration of civic life. The 300,000 sf parking structure effectively provides not only 882 parking spaces (accommodated in six levels above grade and two below grade) but also a wide variety of amenities to the community. Serving as an easily identifiable marker for the entire civic center, the building affords spectacular views of the Pacific Ocean and the city from the upper levels, while a café on the main plaza terrace animates the pedestrian traffic flow.

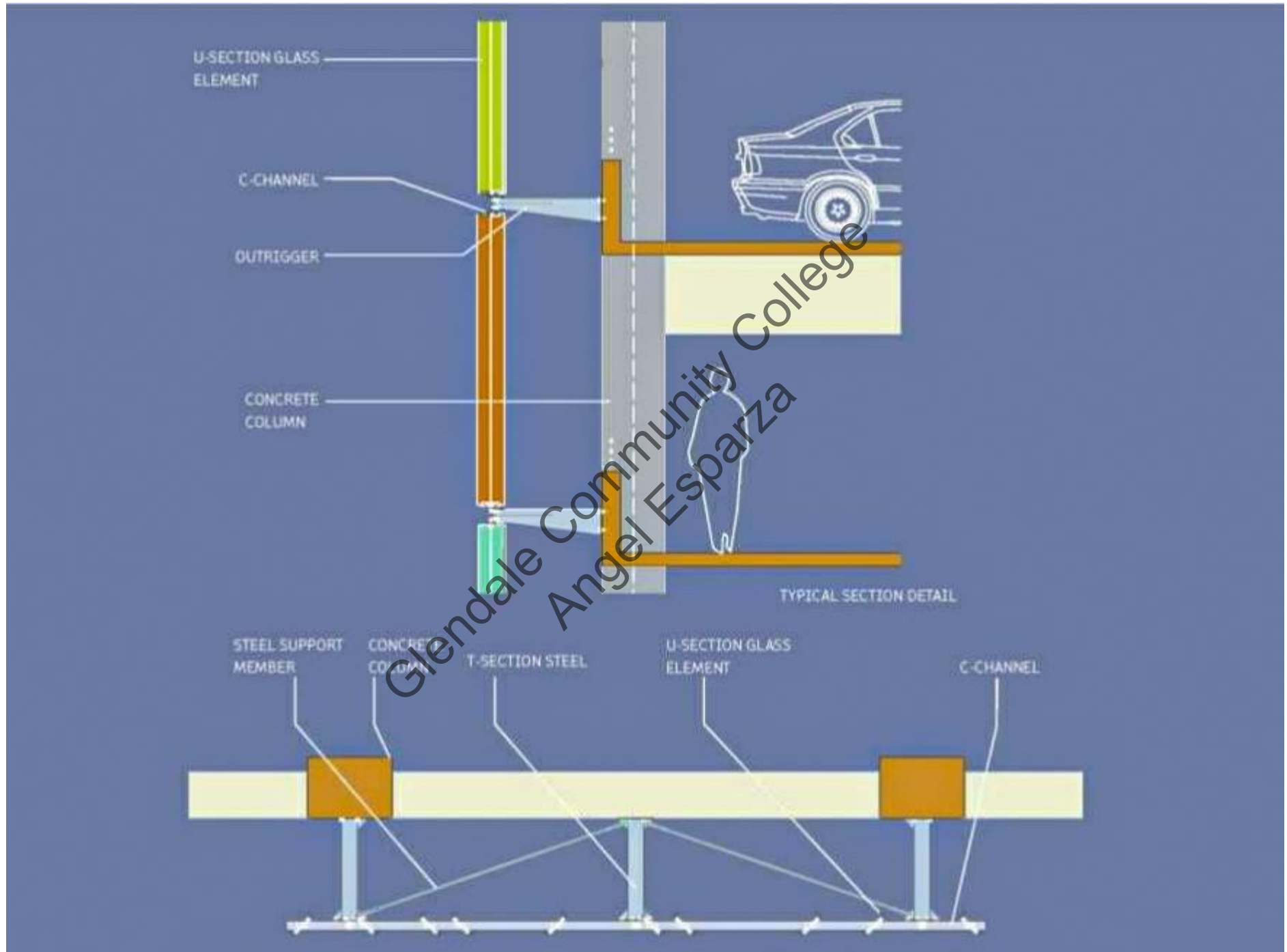
City of Santa Monica © 2020

Santa Monica Office of Sustainability and the Environment



Site View Pedestrian Path on 4th Street

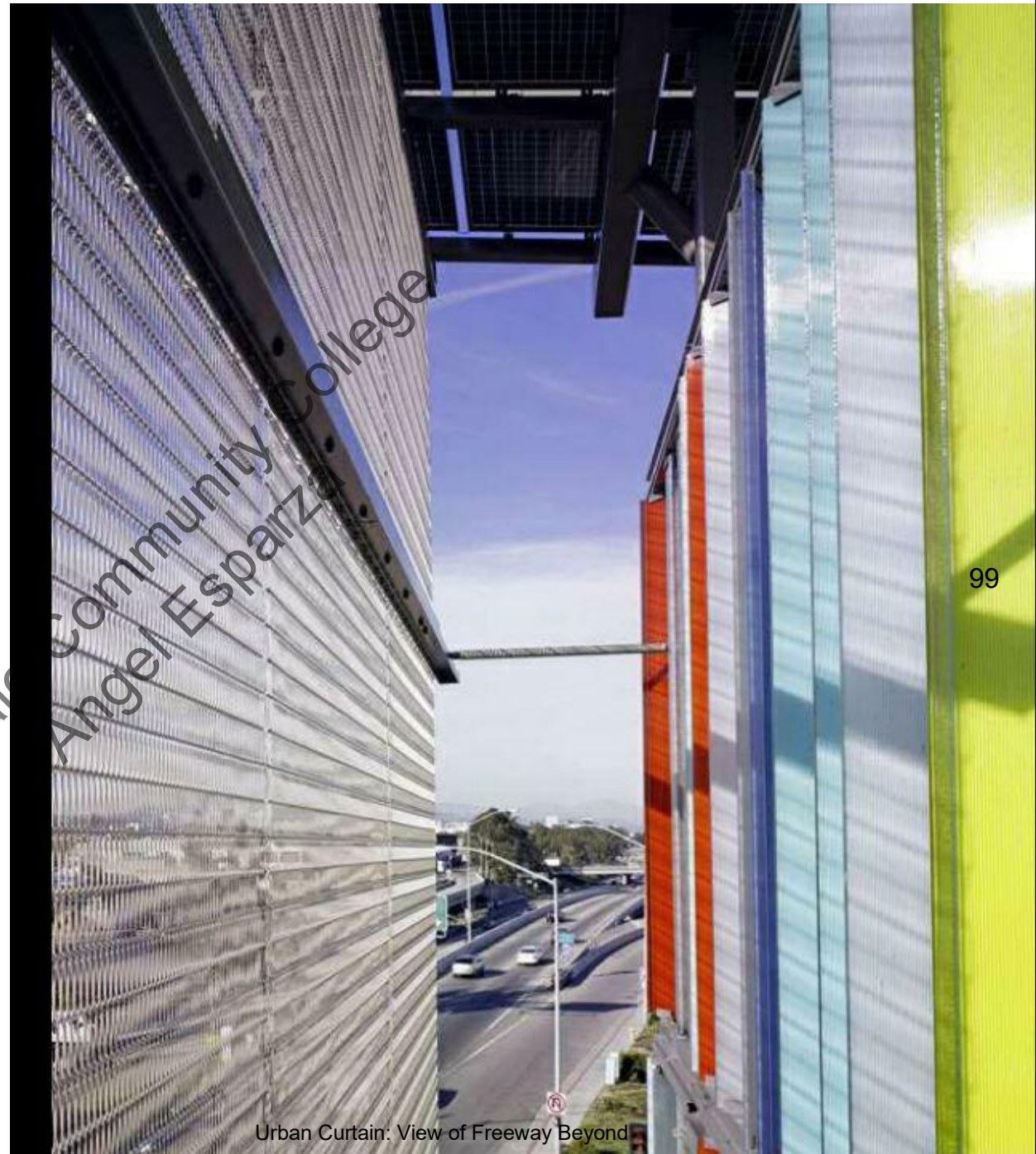
# CURTAIN LEED PANELS DETAIL



Many factors contribute to the building's status as one of the first LEED™ certified parking structures in the United States. Photovoltaic panels on the roof provide shade and a significant portion of total energy needs. Materials with a high recycled content were used, including fly-ash replacement for cement, and recycled-content reinforcing steel and framing.

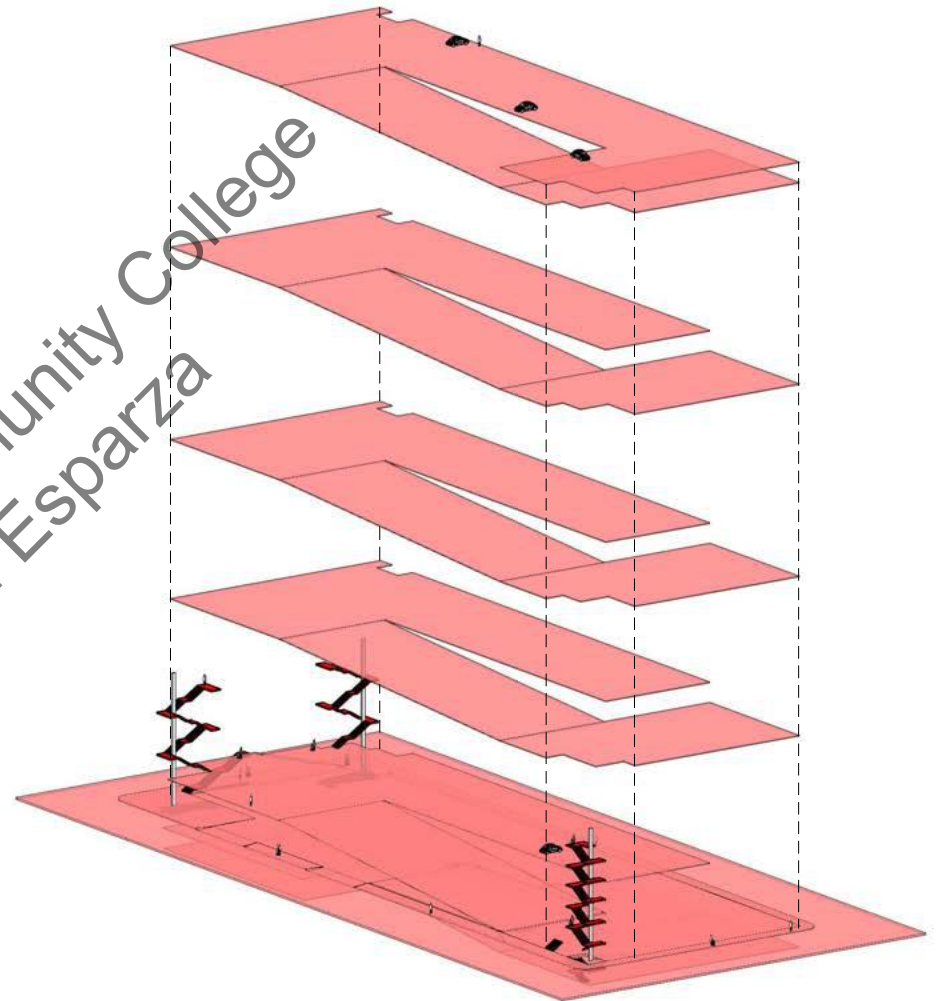
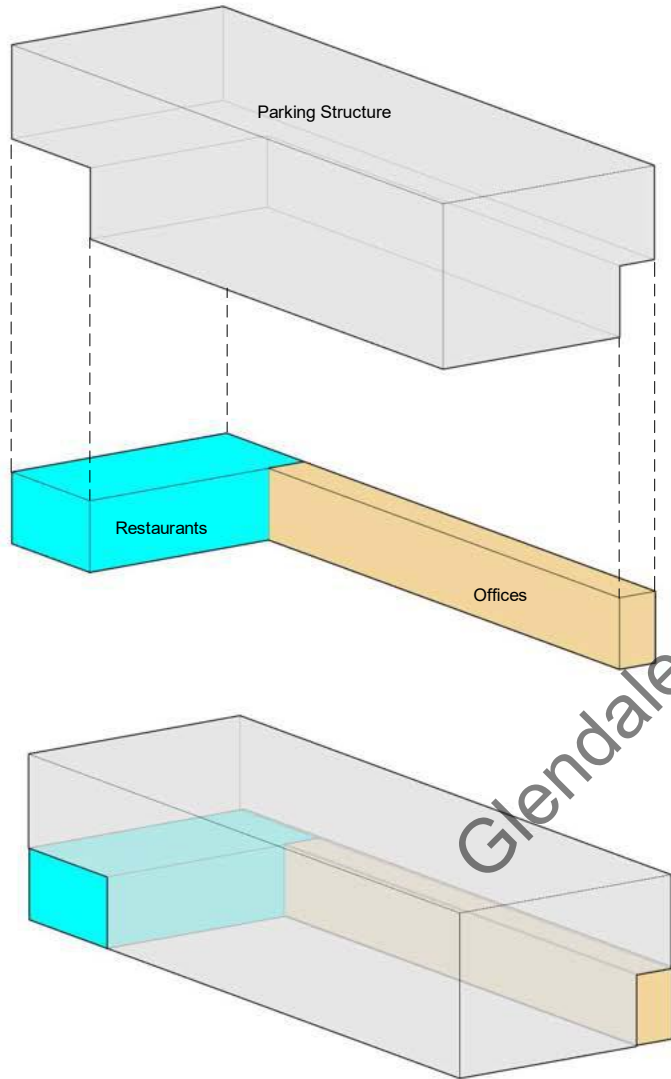
The Parking Structure is a visually iconic presence in the Civic Center. Ribbed concrete panels are set in a shifting, rhythmic pattern on the façades, capturing a rich play of shadows while screening the presence of parked cars. A series of bays made of colored channel glass bring a lively, ever-changing quality by day. The character of the structure changes yet again in the evening, when the glass is illuminated to become a dancing curtain of color and light.

Executive Architect: International Parking Design



Urban Curtain: View of Freeway Beyond

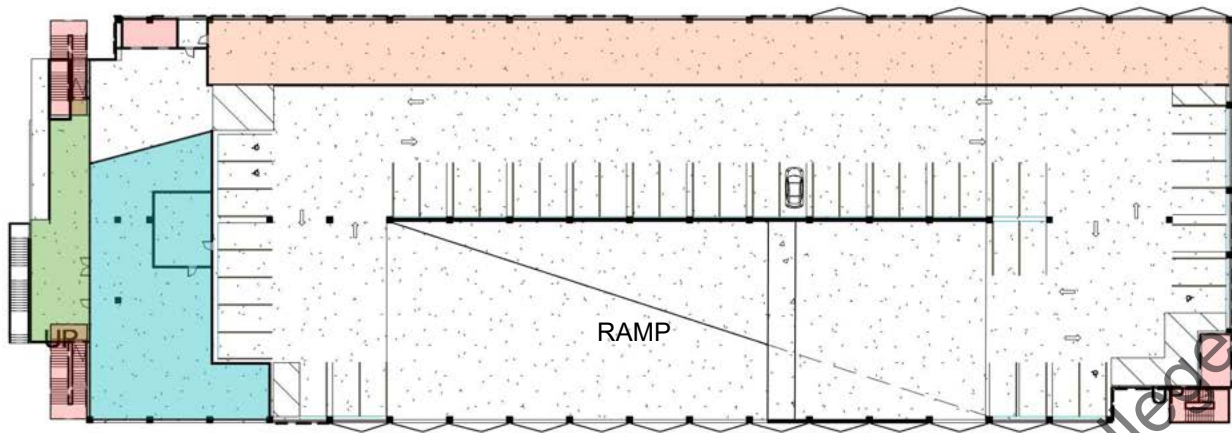
**CONTEXT DIAGRAMS**



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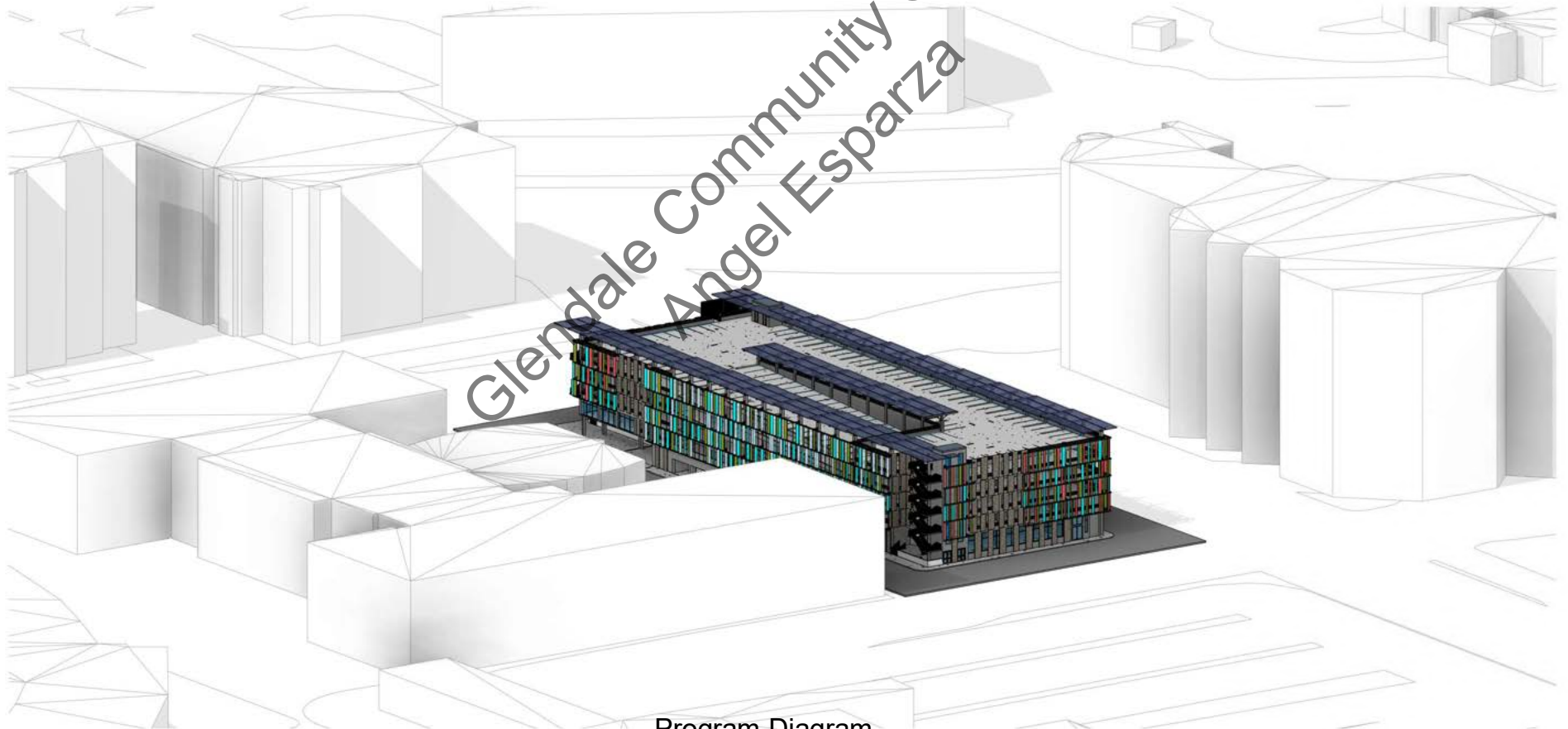
Parti Diagram

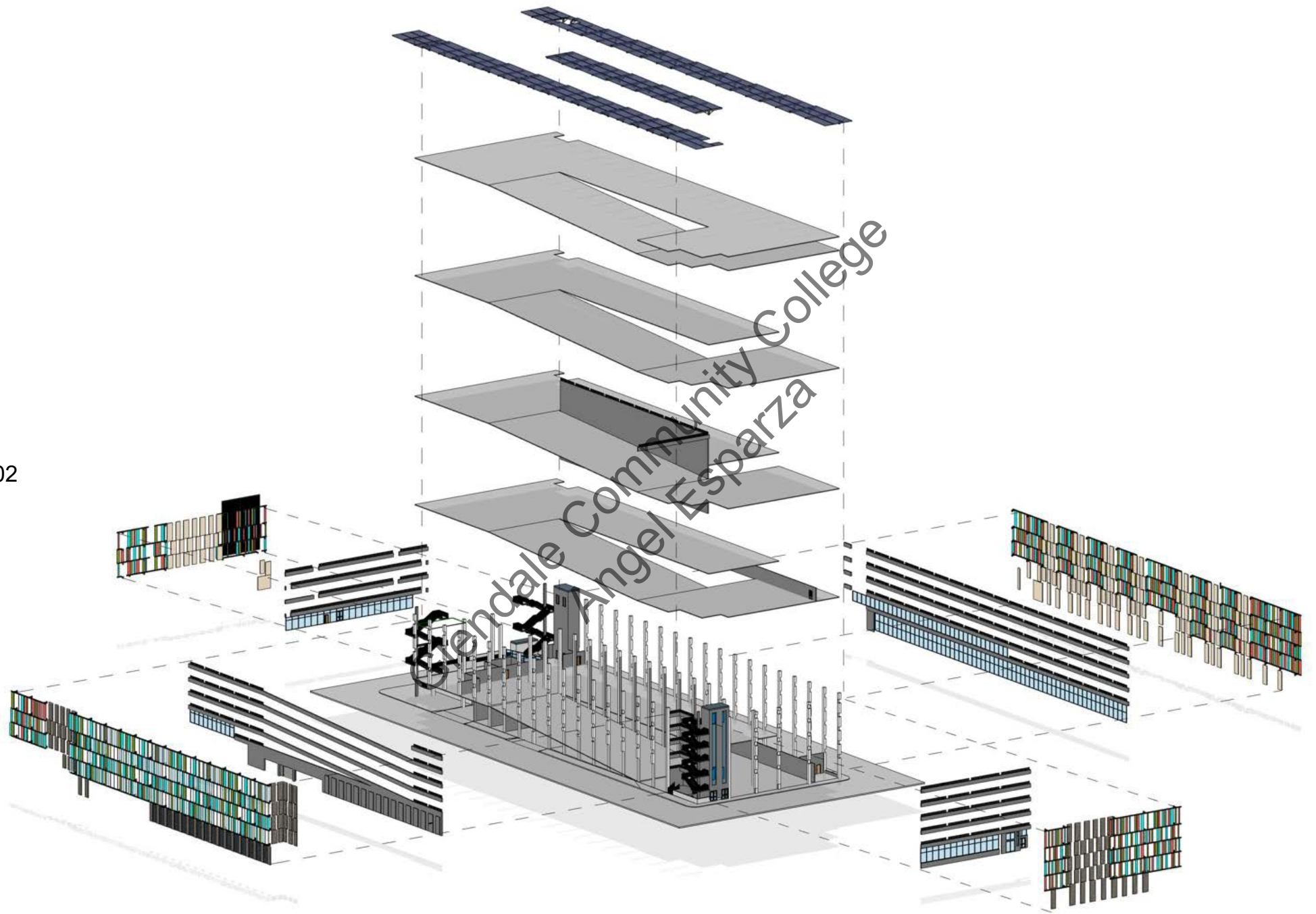
Circulation Diagram



**Public Context Parking**

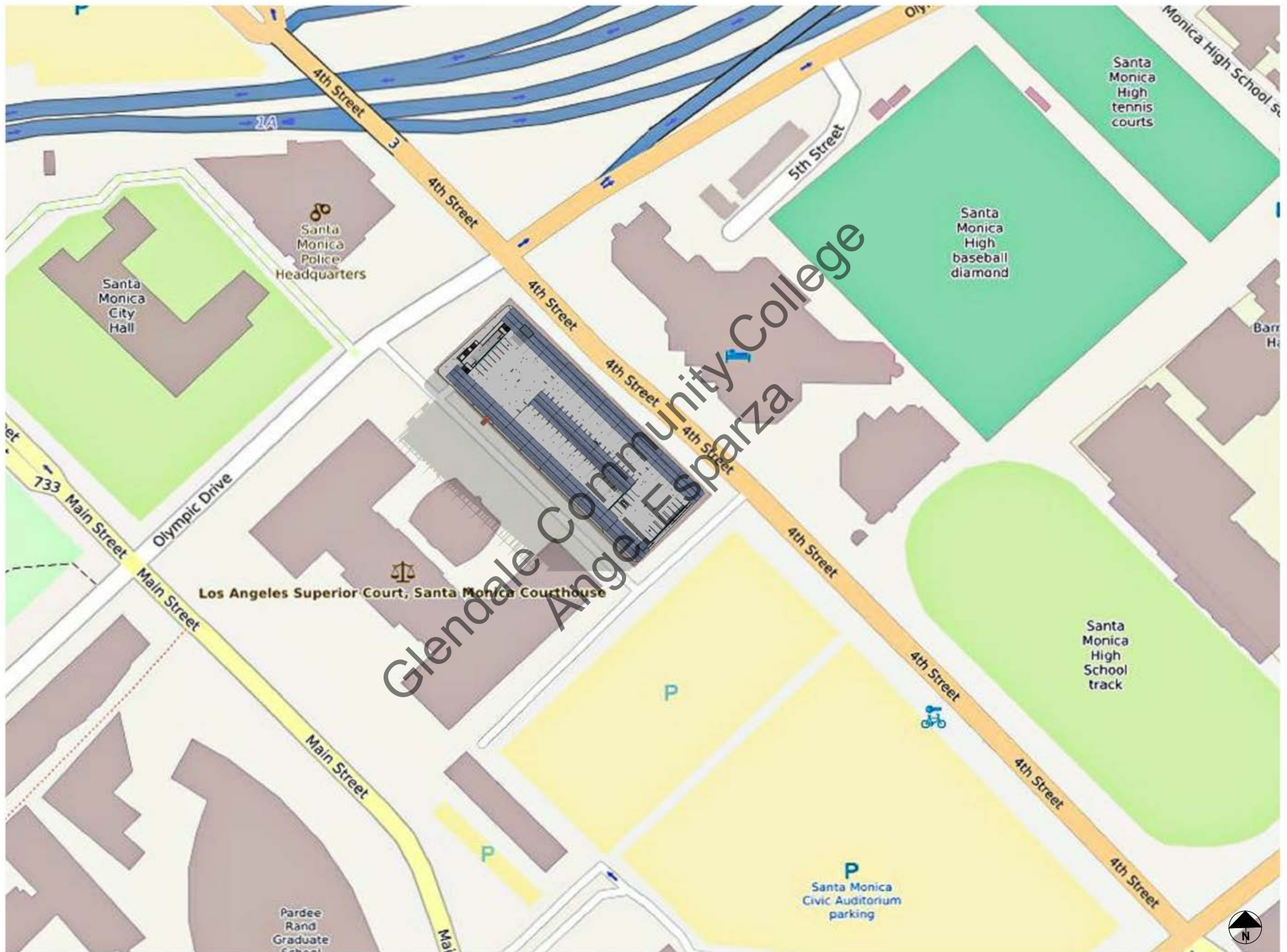
- OFFICES
- RESTAURANT
- TERRACE
- ELEVATOR/ STAIRS CASE

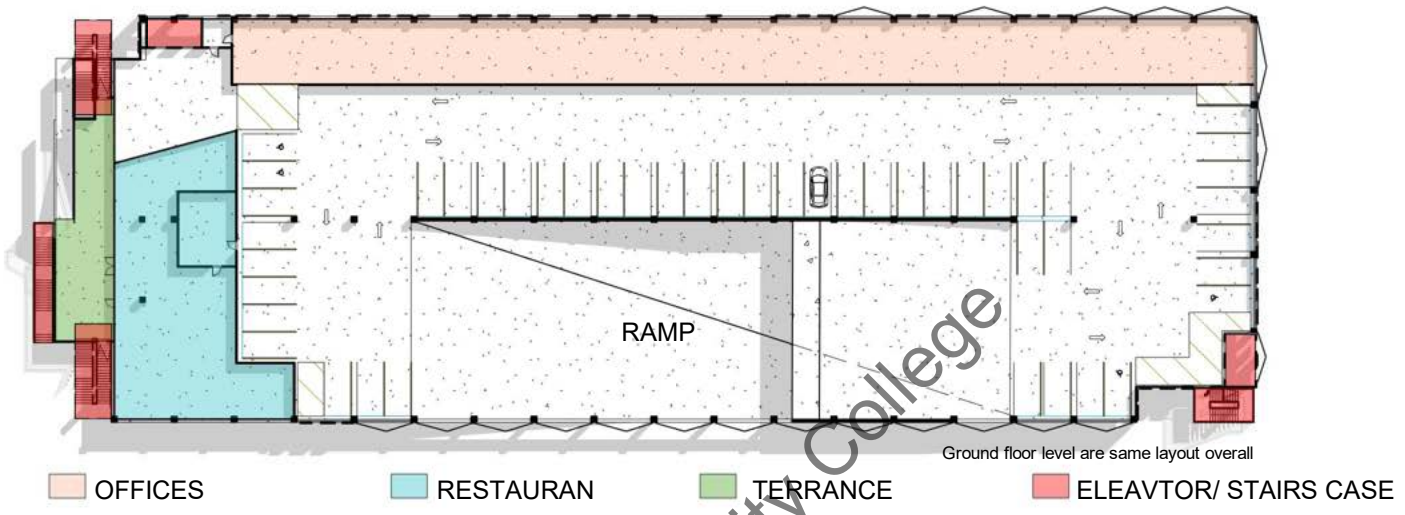




Exploded Diagram

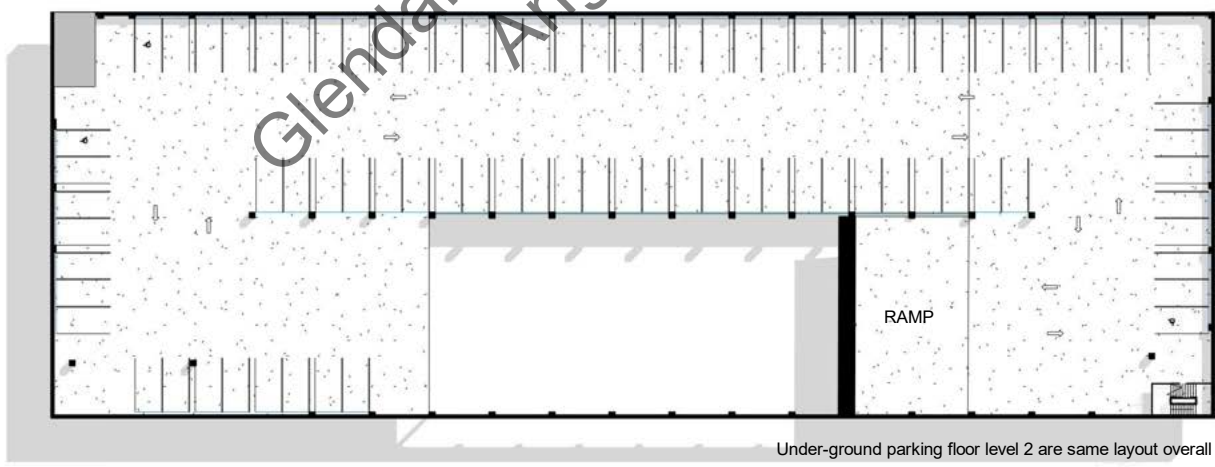
**SITE & FLOOR PLANS**



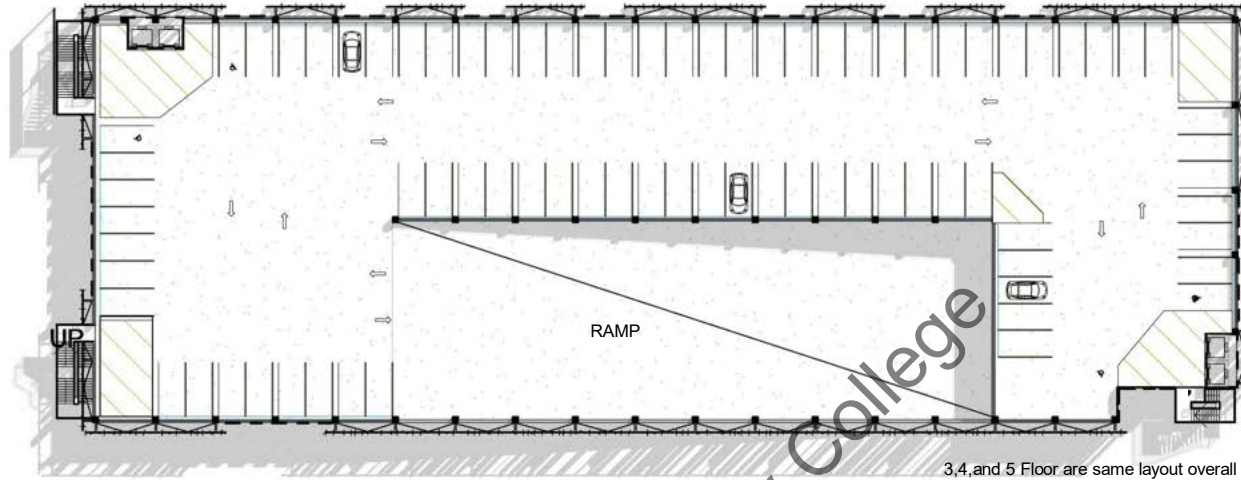


Floor Plan Level 2  
 1/64" = 1'-0"

104

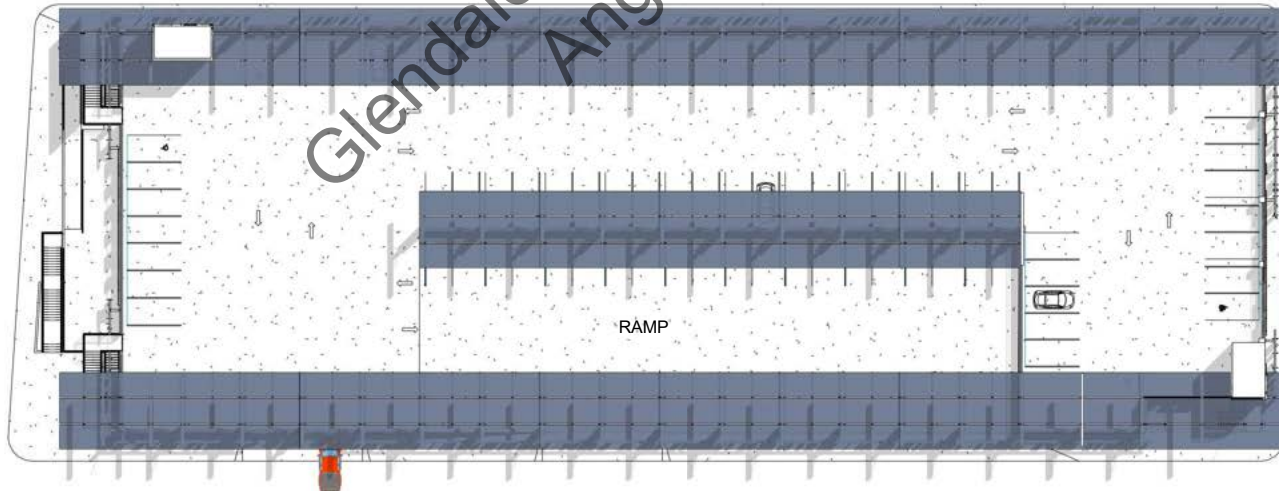


Under Parking  
 1/64" = 1'-0"



3,4, and 5 Floor are same layout overall

Floor Plan Level 6  
 1/64" = 1'-0"



Top Site View  
 1/64" = 1'-0"

# ELEVATIONS



North Elevation  
1" = 50'-0"

106



South Elevation  
1" = 50'-0"



East Elevation  
1" = 50'-0"




West Elevation  
1" = 50'-0"

Isometric Site Project In Santa Monica city by the beach



## PARKING INFO/ RENDERS

-  EV Charger
-  Covered Parking
-  Open 24/7
-  Unobstructed
-  Over 7ft. Clearance
-  Bicycle Parking
-  Parking Lighting
-  Credit Cards Accepted
-  Park & Lock

**Building Address** 333 Civic Center Dr  
Santa Monica, CA 90401,  
US

**Type** Non-restricted

**Total Spaces** 882

**Operator** SP Plus

**Max Weight** 3.00 ton. (2.72 metric ton)

**Max Height** 7 ft. 0 in. (2.13 meters)

108

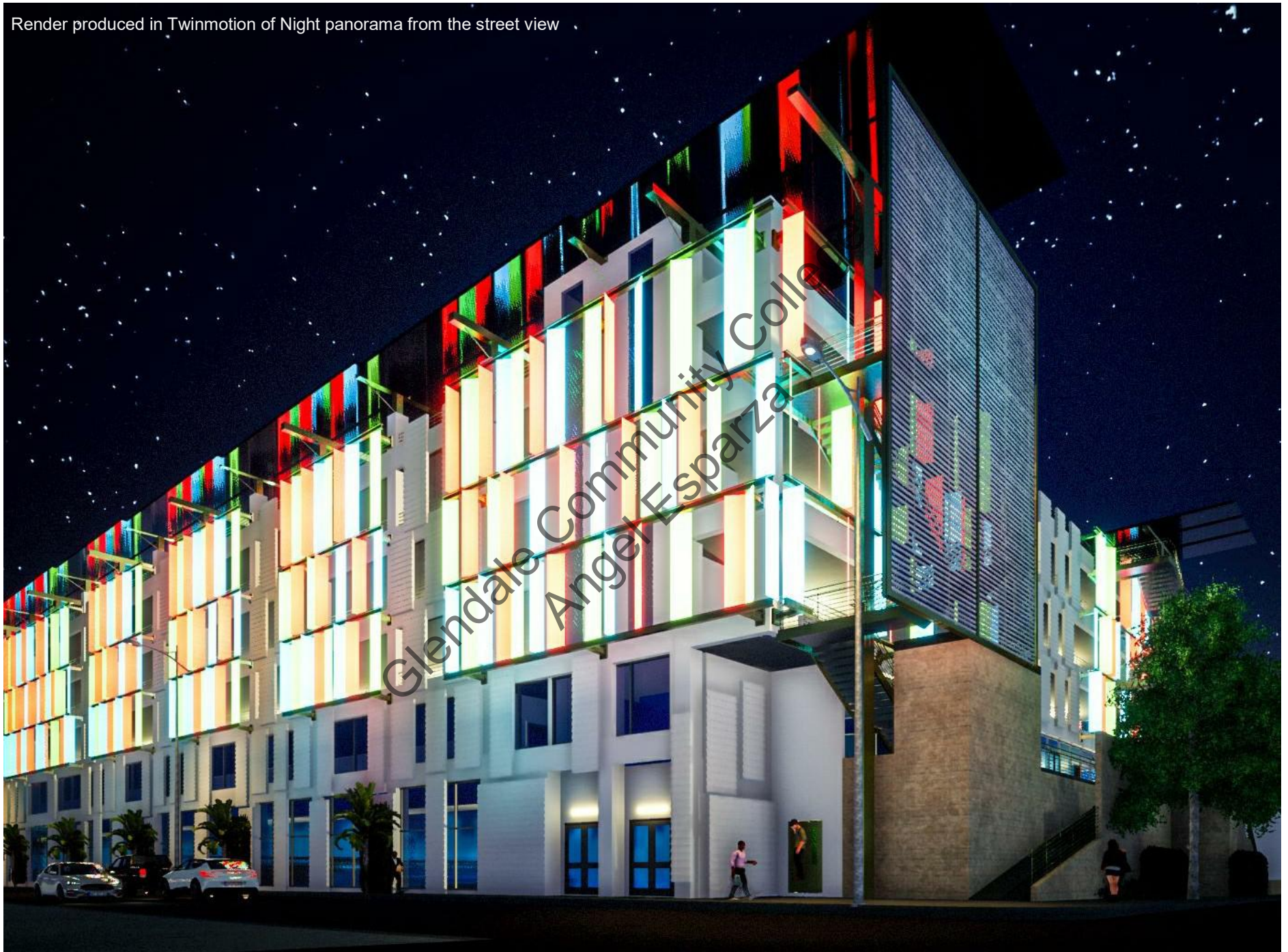


87

Day view from Street site

Render Produced in Twinmotion of the top floor parking structure

Render produced in Twinmotion of Night panorama from the street view



# MIX - USE COMMERCIAL PRISM DESIGN

BUILDING 82%  
Miami Beach, FL  
Design 2006  
85,000 sq. ft.



SCAN ME

110



## PROJECT RESEARCH INFORMATION

This project is a concept for a structural study and design in architecture. At the moment of the class, instructor presented Information and idea of this project; Furthermore, compressed the info obtained to test and form the same structure of this building and learn in the investigation. The Information was obtained utilizing pages on the Internet and compounding the Information necessary to be able to rebuild all the design and, at the same time, improve it with our knowledge.

### REFERENCE; RESEARCH INFORMATION OF THE DESIGNERS

#### Architect Design Team:

Paul Lewis, Marc Tsurumaki, David J. Lewis; Marc Kushner, project architect; Monica Suberville, Hilary Zaic, Mia Lorenzetti, Tamicka Marcy

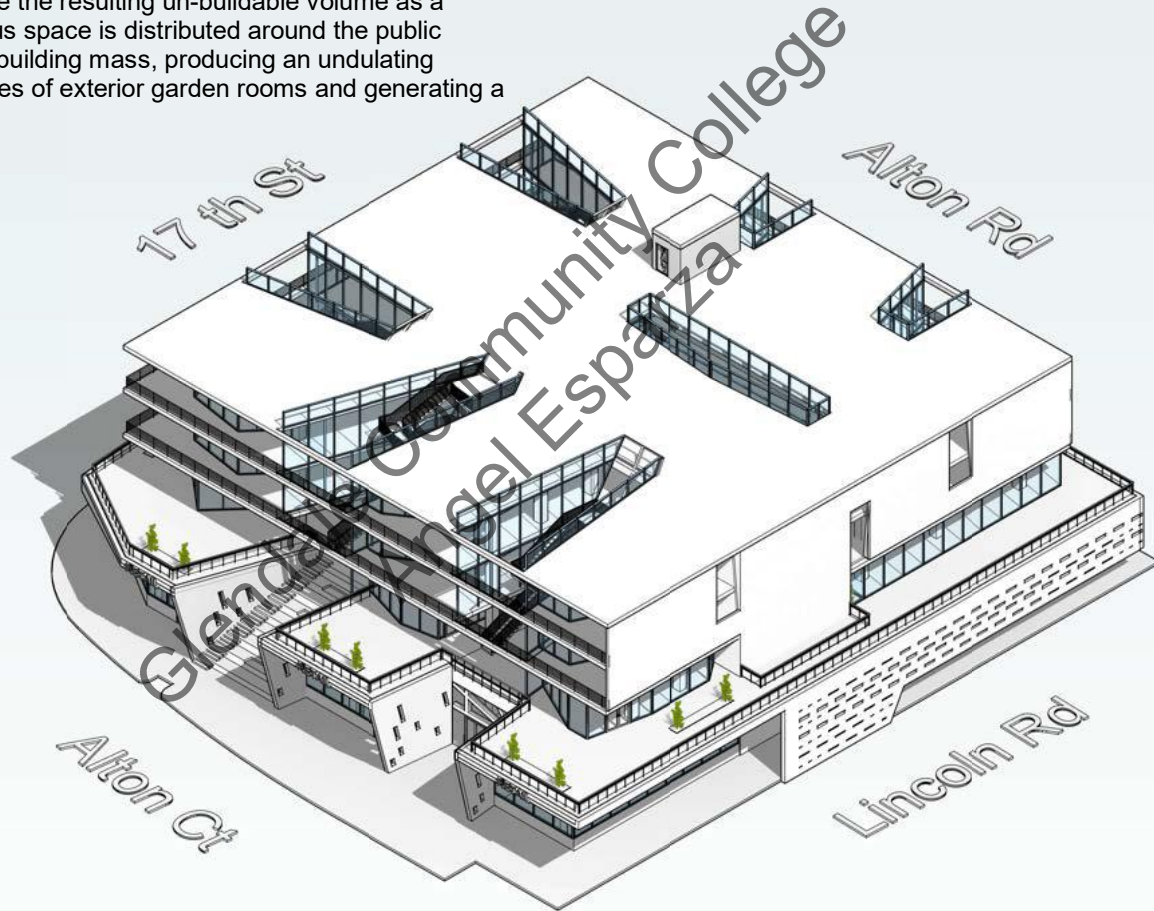


BUILDING 82%  
Miami Beach, FL  
Design 2006  
85,000 sq. ft.

## DESIGN CONCEPT & 3D VIEW BUILDING

### **Designers Concept:**

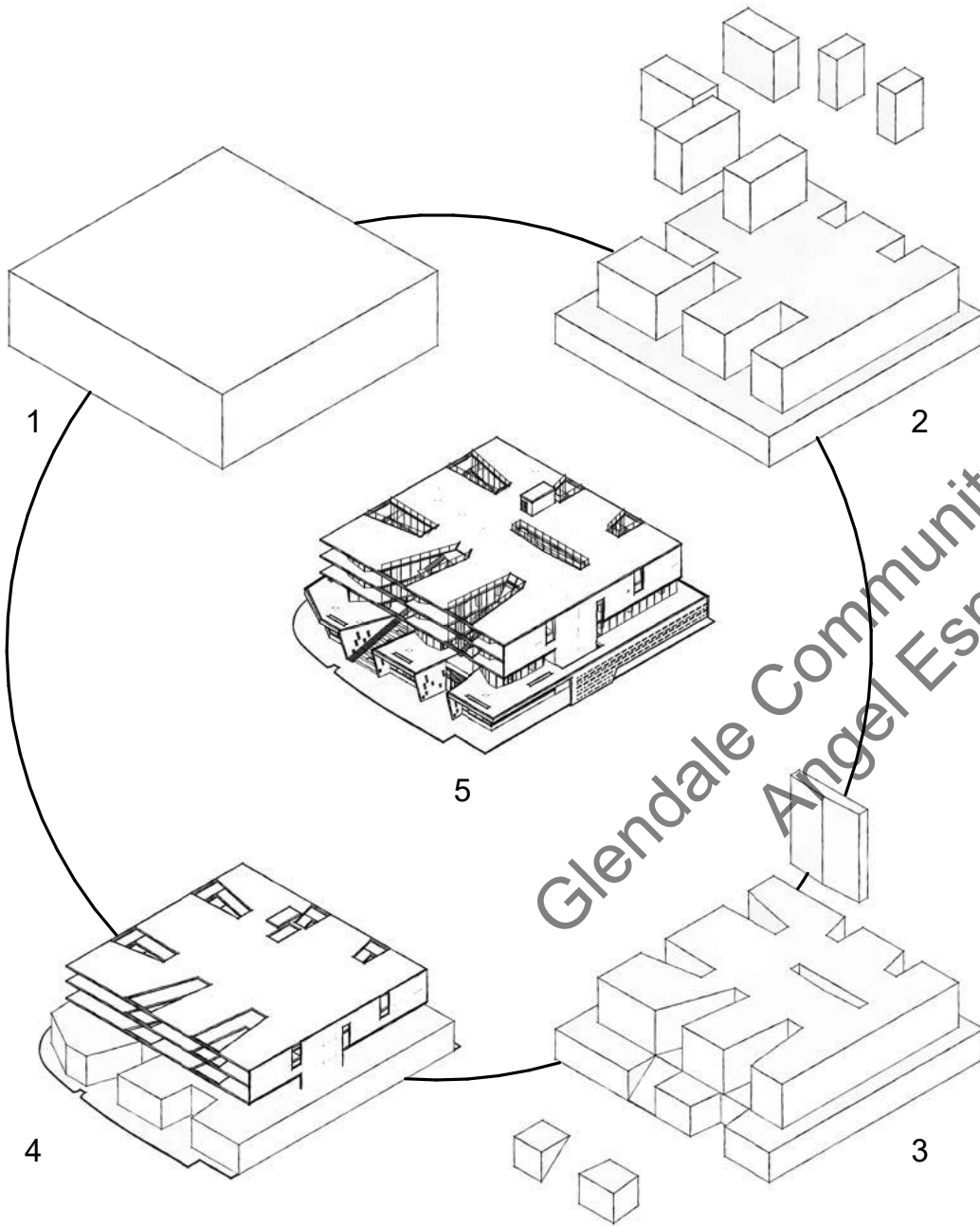
Providing an alternative to the glut of high-end condo towers in Miami Beach—typically hermetic, single-use structures sealed off from any relation to context or climate—the design for Building 82% intensifies urban, programmatic, and spatial permeability. Exploiting the desirability of outdoor space in South Florida, the design amplifies the possibilities of regional architectural strategies—balconies, terraces, courtyards, and breezeways—recombining them in unexpected ways to maximize the connections between interior and exterior space. Specifically, the design opportunistically manipulates the fact that only eighty-two percent of the available zoning envelope for the site could be built out according to the floor area ratio (FAR) limits. Rather than locate the resulting un-buildable volume as a private interior courtyard, this surplus space is distributed around the public perimeter as a series of cuts in the building mass, producing an undulating elevation with depth, creating a series of exterior garden rooms and generating a greater variety of interior views.



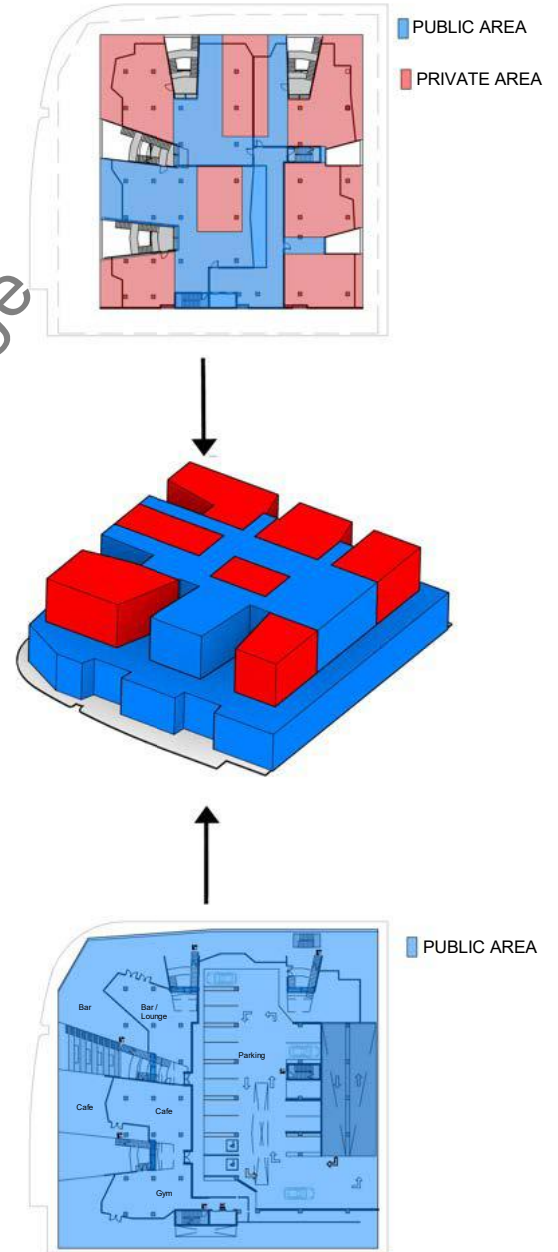
112

Isometric View Building  
1" = 40'- 0"

**CONCEPT DIAGRAMS**

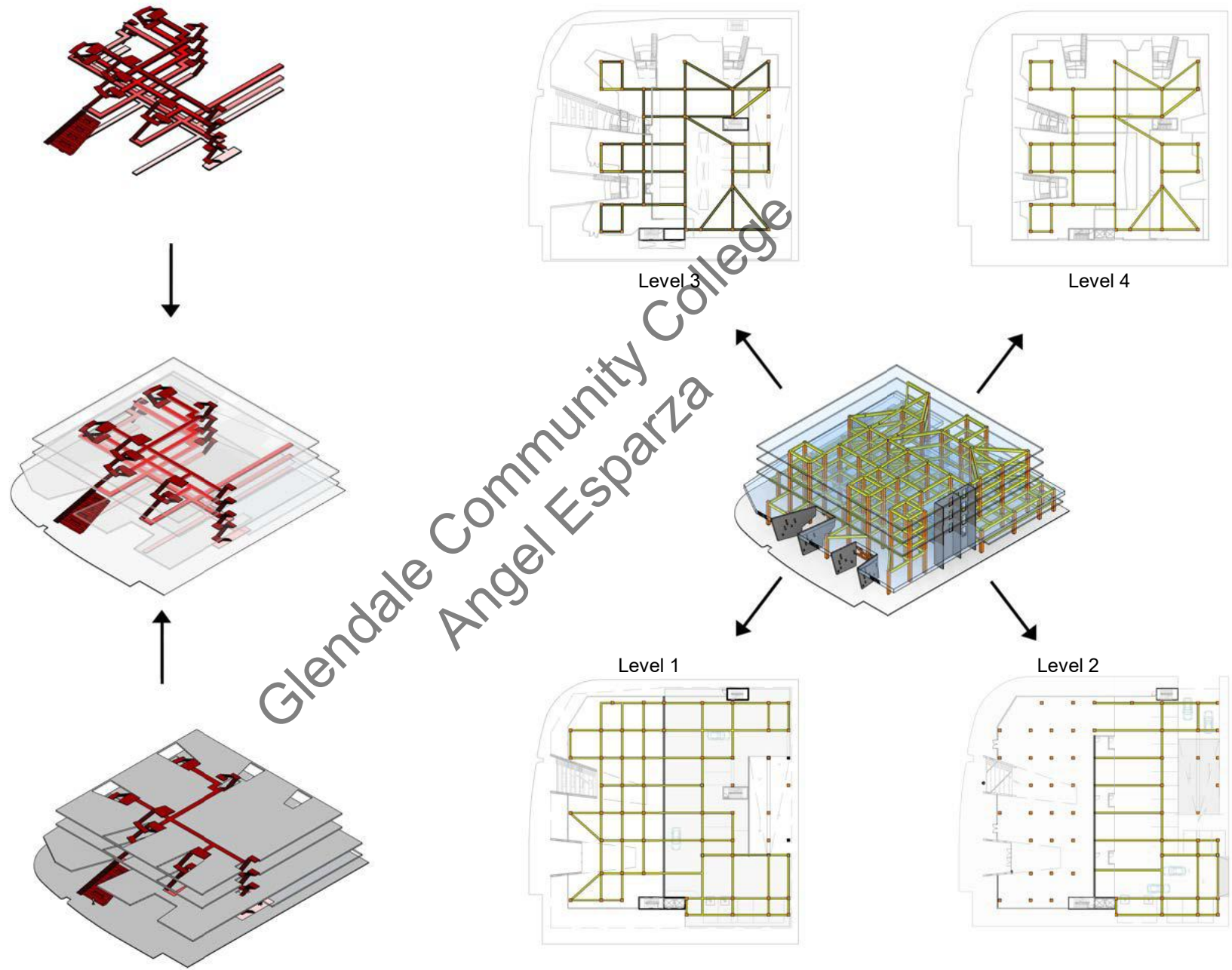


Parti Diagram



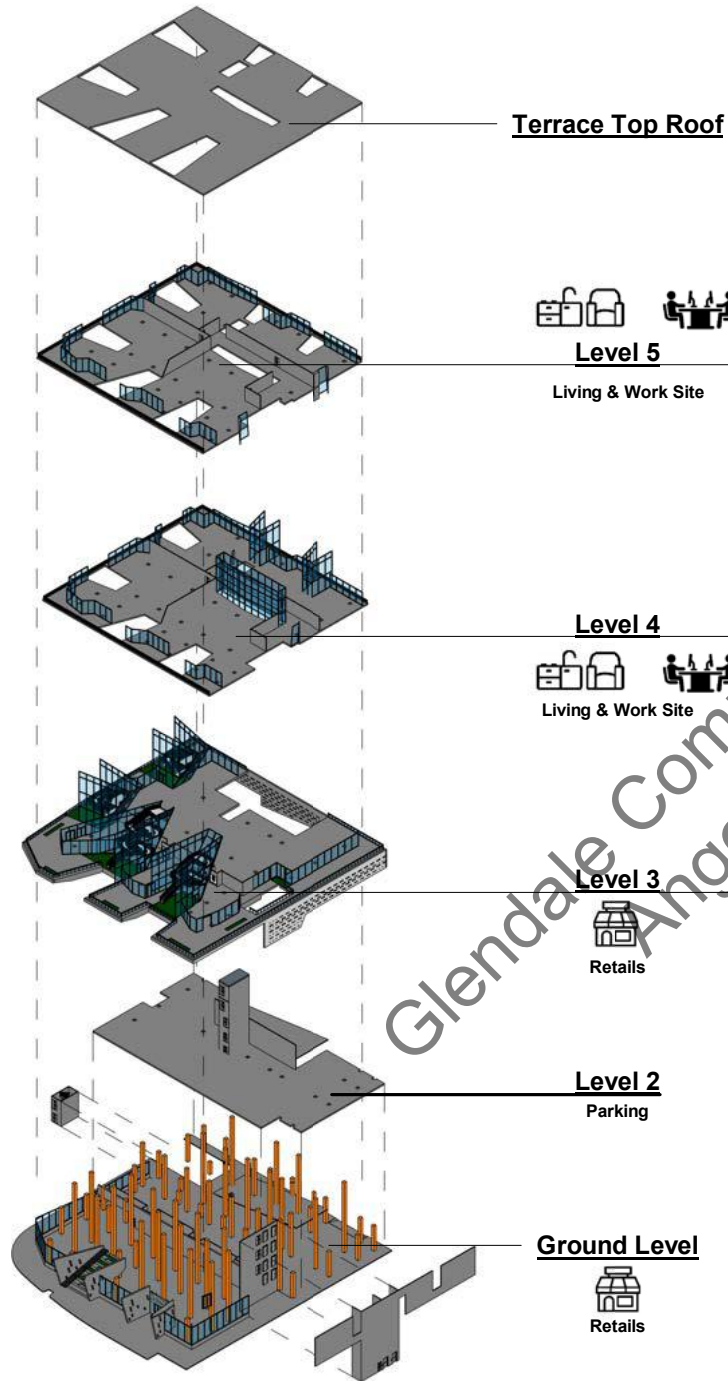
Program Diagram

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Angel Esparza



Circulation Diagram

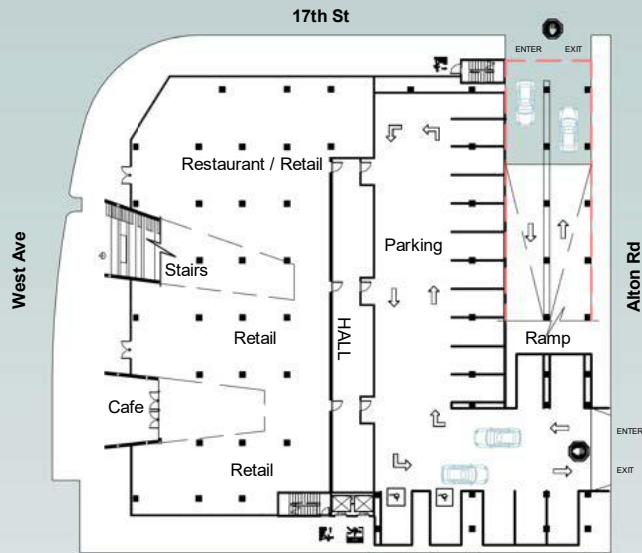
Structure Diagram



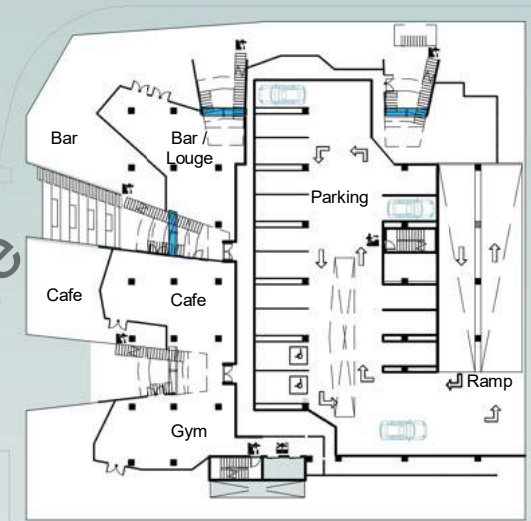
Glendale Community College  
Angel Esparta

Exploded Diagram

# FLOOR PLANS & ELEVATIONS

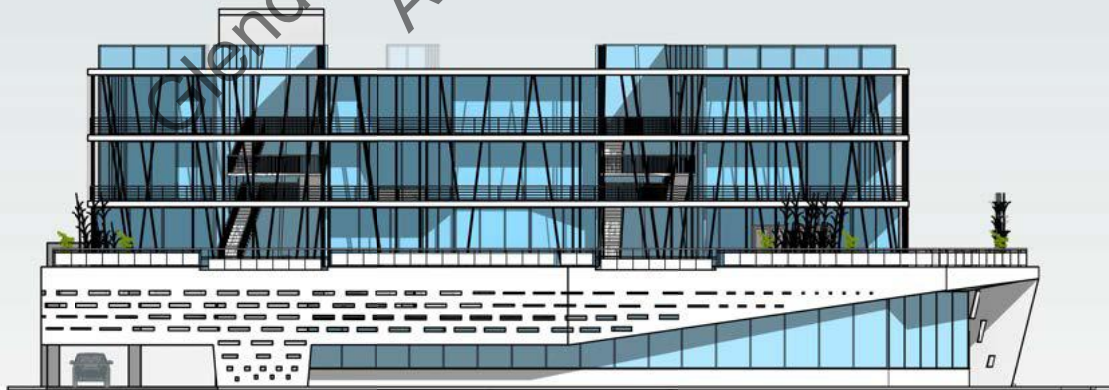


Ground Level  
1/64" = 1'-0"

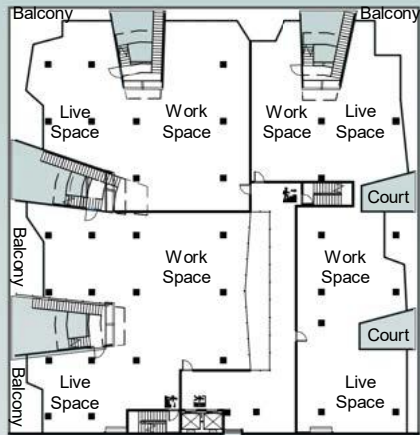


Floor Plan 2  
1/64" = 1'-0"

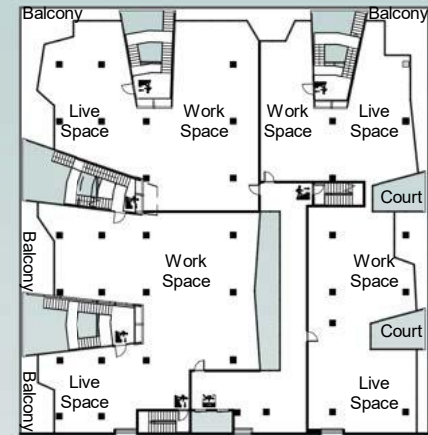
116



North Elevation  
1/32" = 1'-0"

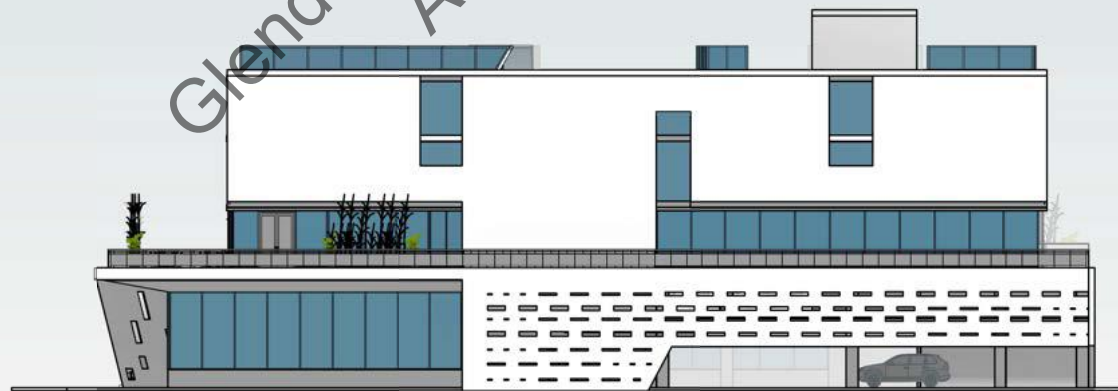


Floor Plan Level 3  
 1/64" = 1'- 0"



Level 5-have the similitude of this floor

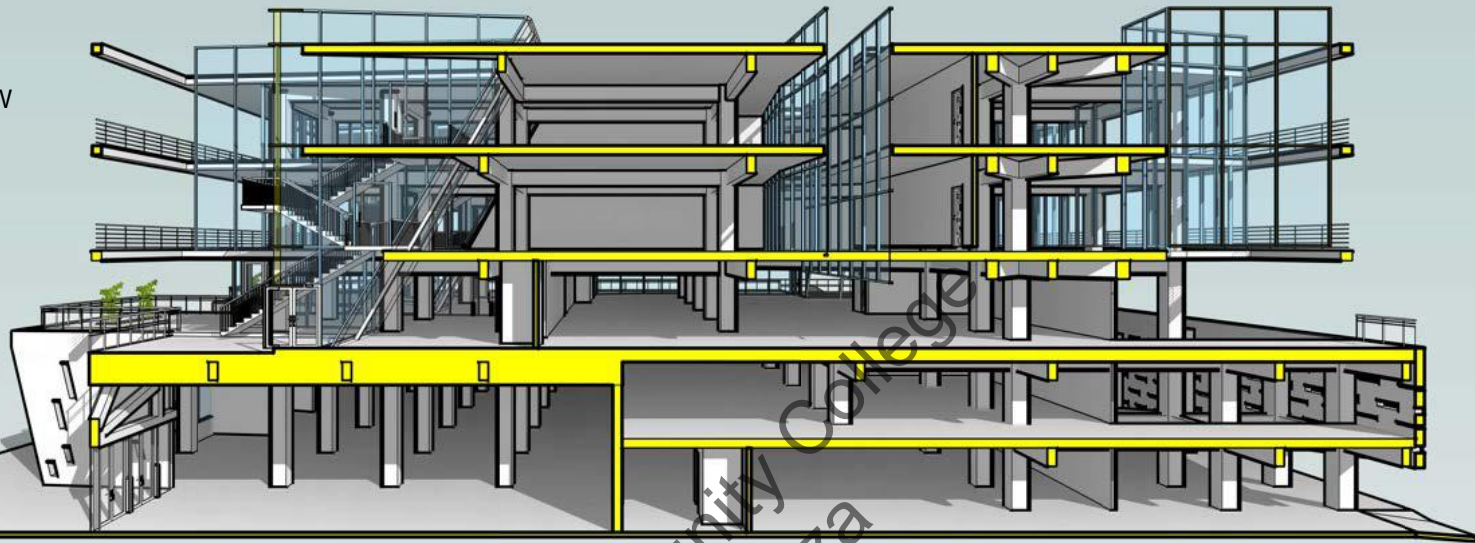
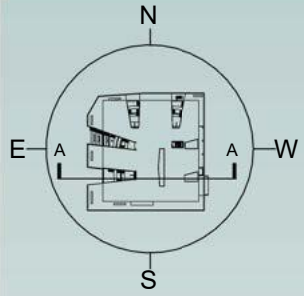
Floor Plan Level 4  
 1/64" = 1'- 0"



South Elevation  
 1/32" = 1'- 0"

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 Angel Esparza

# SECTION CUTS & ELEVATIONS

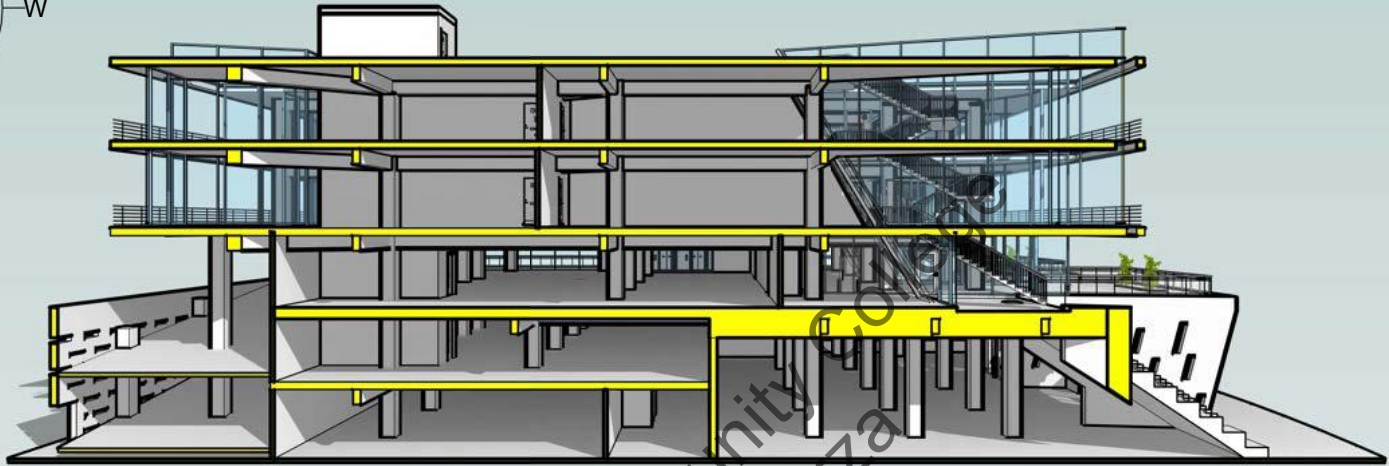
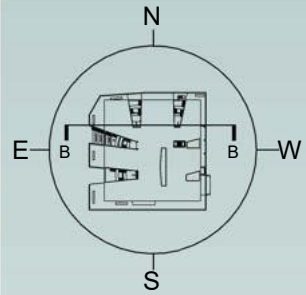


Section Cut A

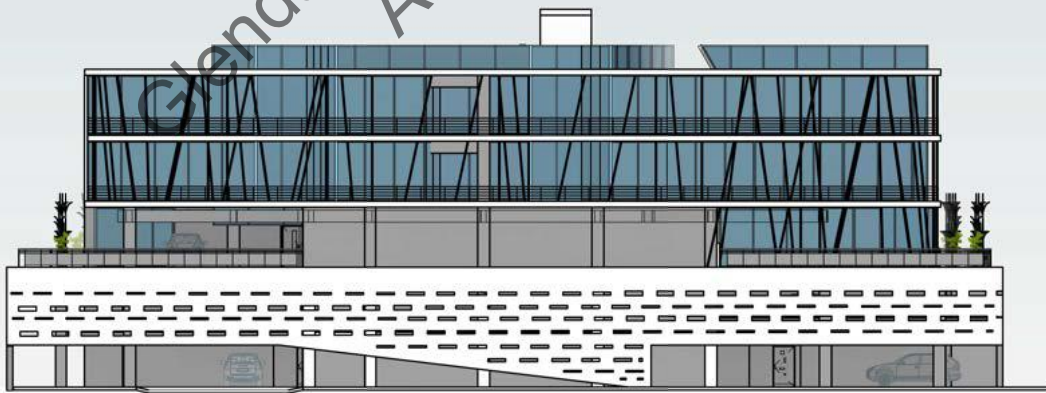
118



East Elevation  
1/32" = 1'-0"



Section Cut B




West Elevation  
1/32" = 1'-0"

**BUILDING SITE VIEW**



120

Site View   
1/64" = 1'-0"

## RENDER DESIGN PROJECT VIEW

East site view. Created in Revit and rendered from Twinmotion software.





Prism Case Study 3D Model Design



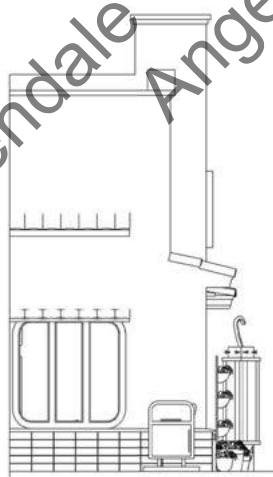
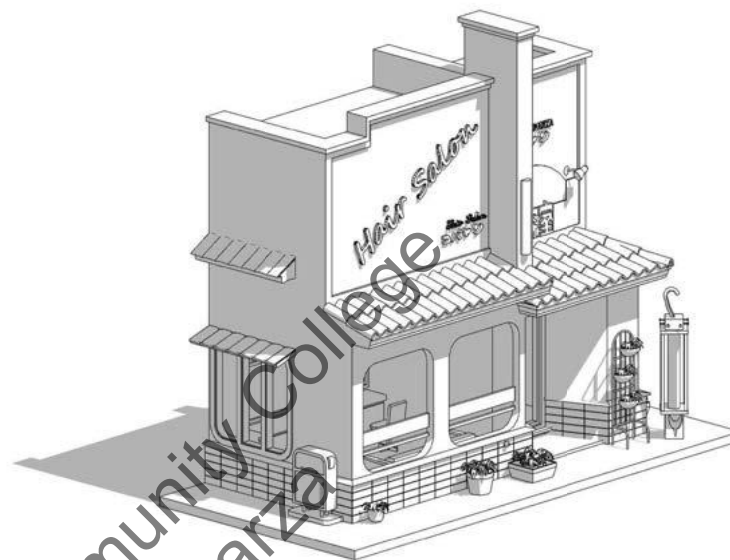
Prism Case Study 3D Model Design

3D Print Tokyo Storefront

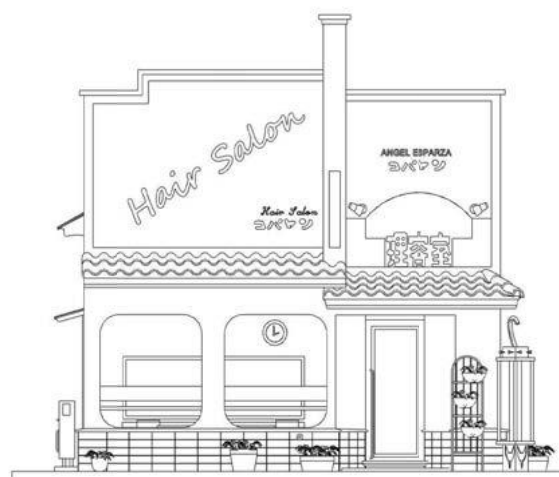


124

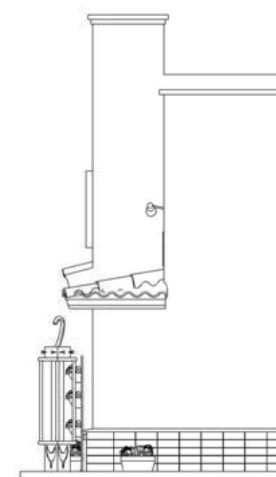
In this Arch 251 class, we selected one of the many storefronts to reproduced the scene in Revit and transferred the results to a 3D Print.



Left Side

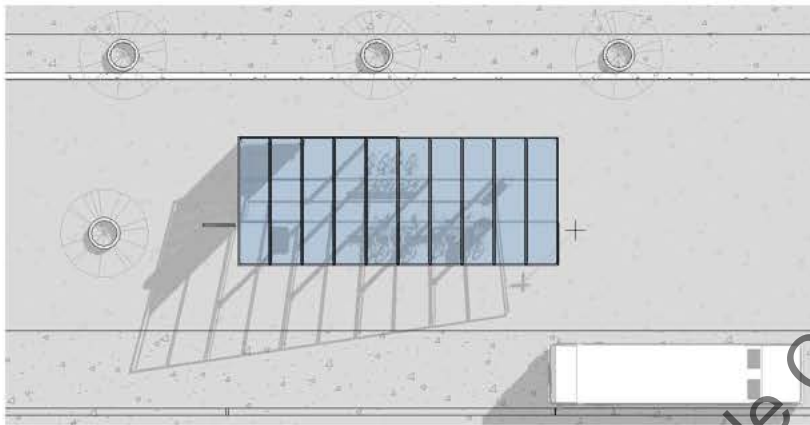


Front Side

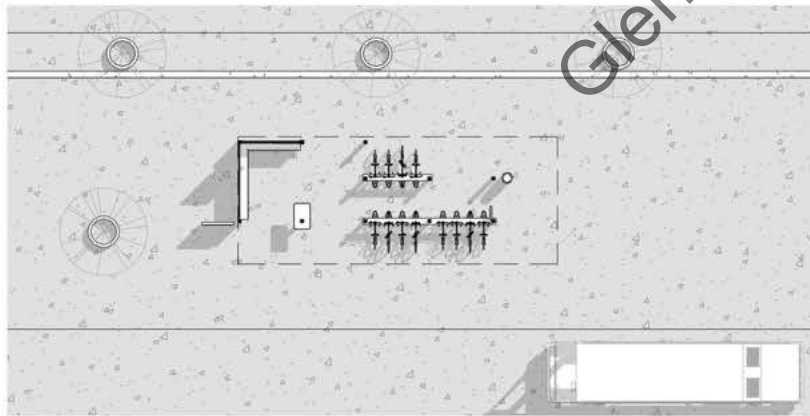


Rigth Side

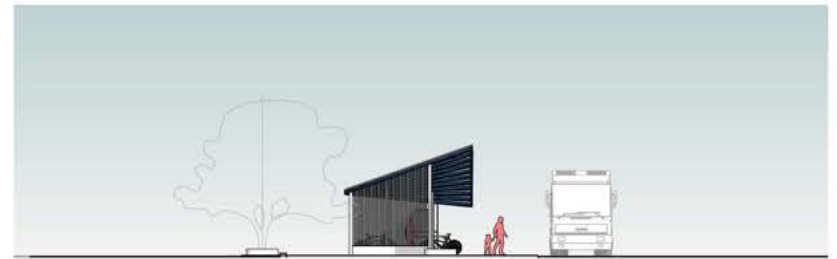
# BUS STOP DESIGN



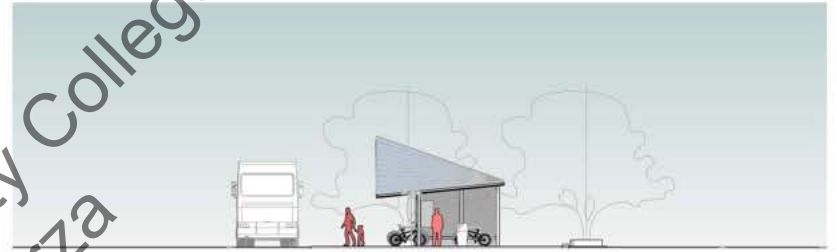
Site View  
1" = 30'-0"



Ground floor  
1" = 30'-0"



West Elevation  
1" = 30'-0"



East Elevation  
1" = 30'-0"



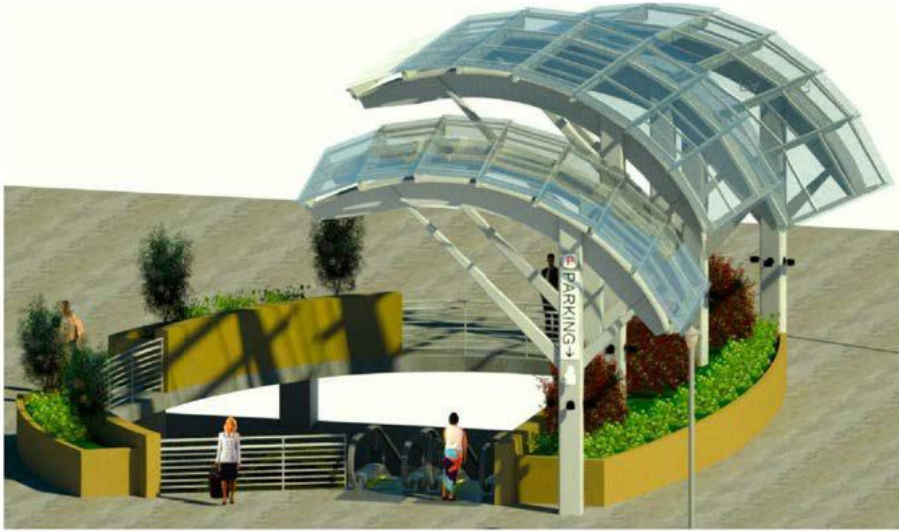
South Elevation  
1" = 30'-0"



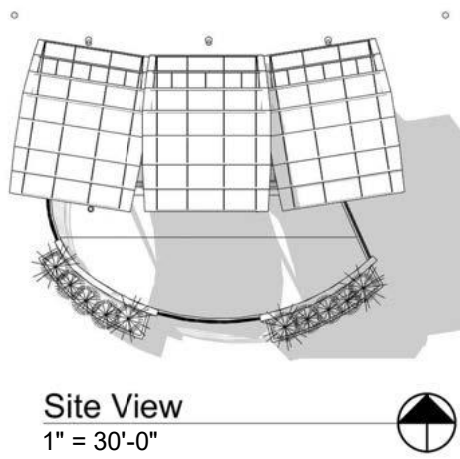
North Elevation  
1" = 30'-0"

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Angel Esparza

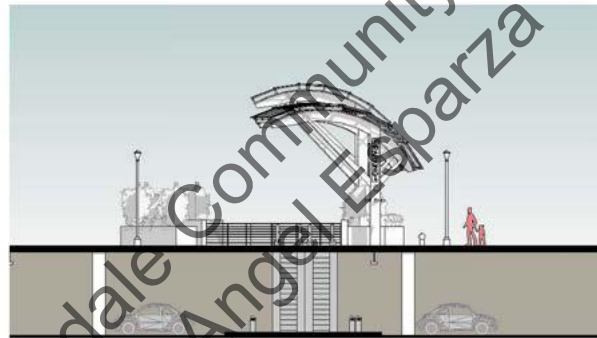
**WESTFIELD SANTA ANITA CANOPY STRUCTURE, ARCADIA CA.**



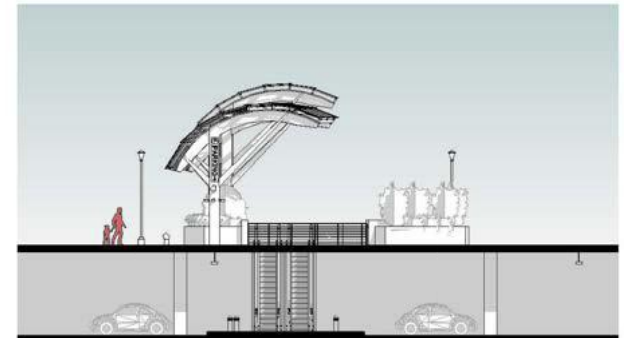
126



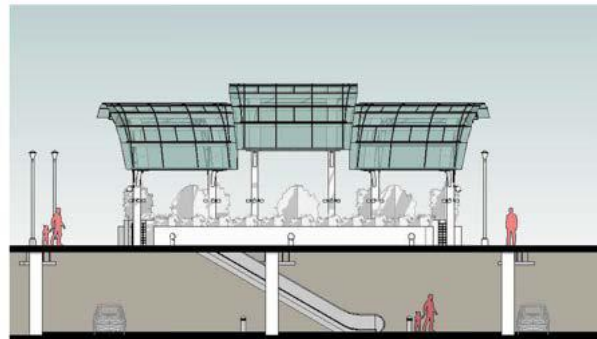
Site View  
1" = 30'-0"



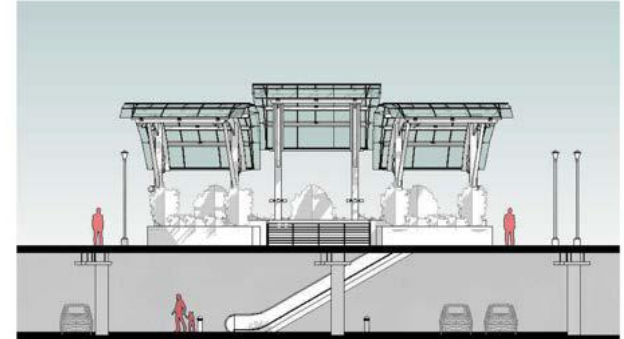
East Elevation  
1" = 30'-0"



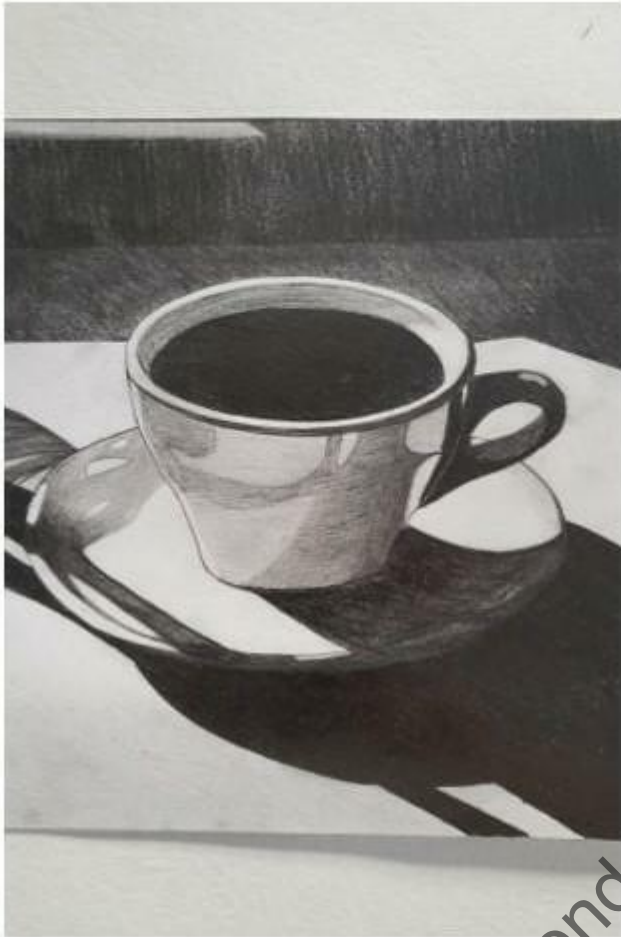
West Elevation  
1" = 30'-0"



North Elevation  
1" = 30'-0"



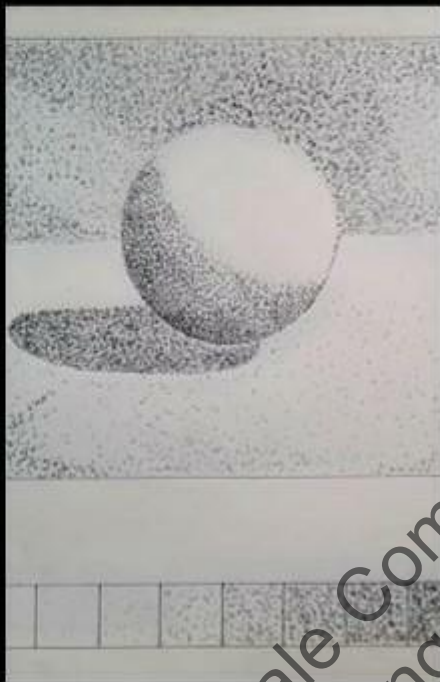
South Elevation  
1" = 30'-0"



Glendale Community College  
Angel Esparza

# ART 130

HAND DRAW PRACTICE



# CONTRASTS SPHERES

HAND DRAW

# WUHO GALLERY 2019

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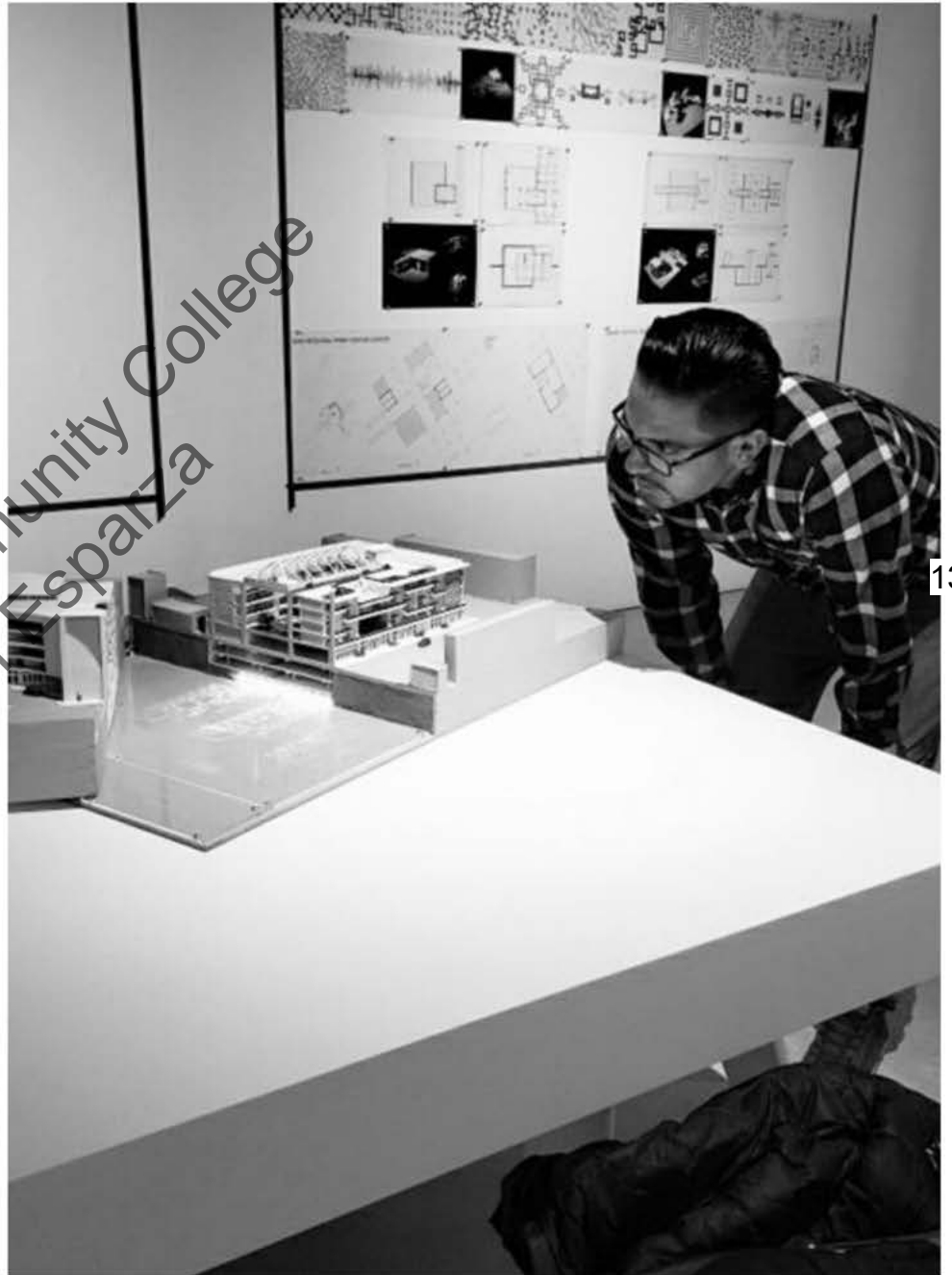
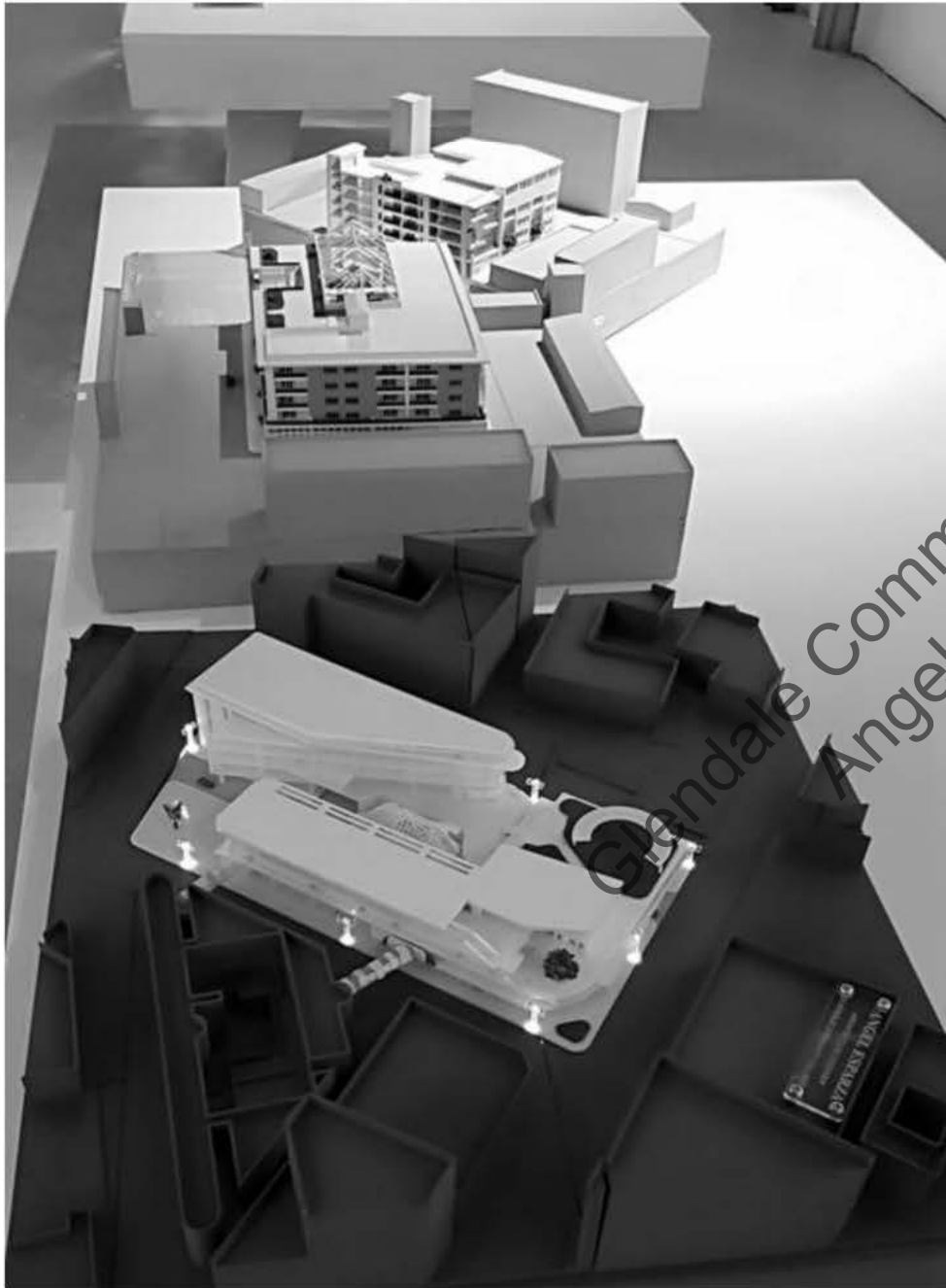




130



# WUHO GALLERY 2020





**THANK YOU!**

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