

Skylar Ma

Selected Works

Portfolio



I am Skylar Ma 3rd Year Architecture Student

As an architecture student and resident assistant, I have developed a passion for creating sustainable and community-centric spaces. Through my experiences, I have built and strengthened leadership skills and a commitment to inclusive practices. Beyond my architectural pursuits, I enjoy working at various coffeeshops to gain inspiration and expand my perspective on spatial qualities. My goal is to design buildings that not only serve their purpose but also contribute to a more sustainable and inclusive future, leaving a positive impact on the world through creative and innovative design solutions.

S K Y L A R M A

480-599-9010
skylartma@arizona.edu

LANGUAGES

- English
- Cantonese
- Spanish

PROFESSIONAL SKILLS

- Collaboration
- Problem Solving
- Customer Service
- Graphic Design
- Communication
- Interpersonal Skills
- Time Management
- Public Speaking

SOFTWARE SKILLS

- Rhinoceros
- Grasshopper
- Revit
- Enscape
- Lumion
- Formit
- Climate Consultant
- Adobe Photoshop
- Adobe Illustrator
- Adobe InDesign
- Microsoft Office
- Google Workspace

EDUCATION

UNIVERSITY OF ARIZONA

Honors: GPA 3.89/4

Minor: Spanish

Expected Graduation: May 2026

EXPERIENCE

RESIDENT ASSISTANT

The University of Arizona Housing
August 2022 – Present

COMMUNITY INVOLVEMENT

SECRETARY

Women In Architecture
August 2022 – Present

HALL COUNCIL MENTOR

Historic Lane Hall Council
August 2022 – May 2023

FIRST YEAR REPRESENTATIVE

Women In Architecture
September 2021- May 2022

HALL COUNCIL VICE PRESIDENT

Arbol de la Vida Hall Council
September 2021 – May 2022

AWARDS

- CAPLA, AGM CONTAINER CONTROLS,
ASCENSION WHEELCHAIR LIFTS
UNIVERSAL DESIGN AWARD
Fourth Place Award

CONTENTS

01

ABC CULINARY SCHOOL



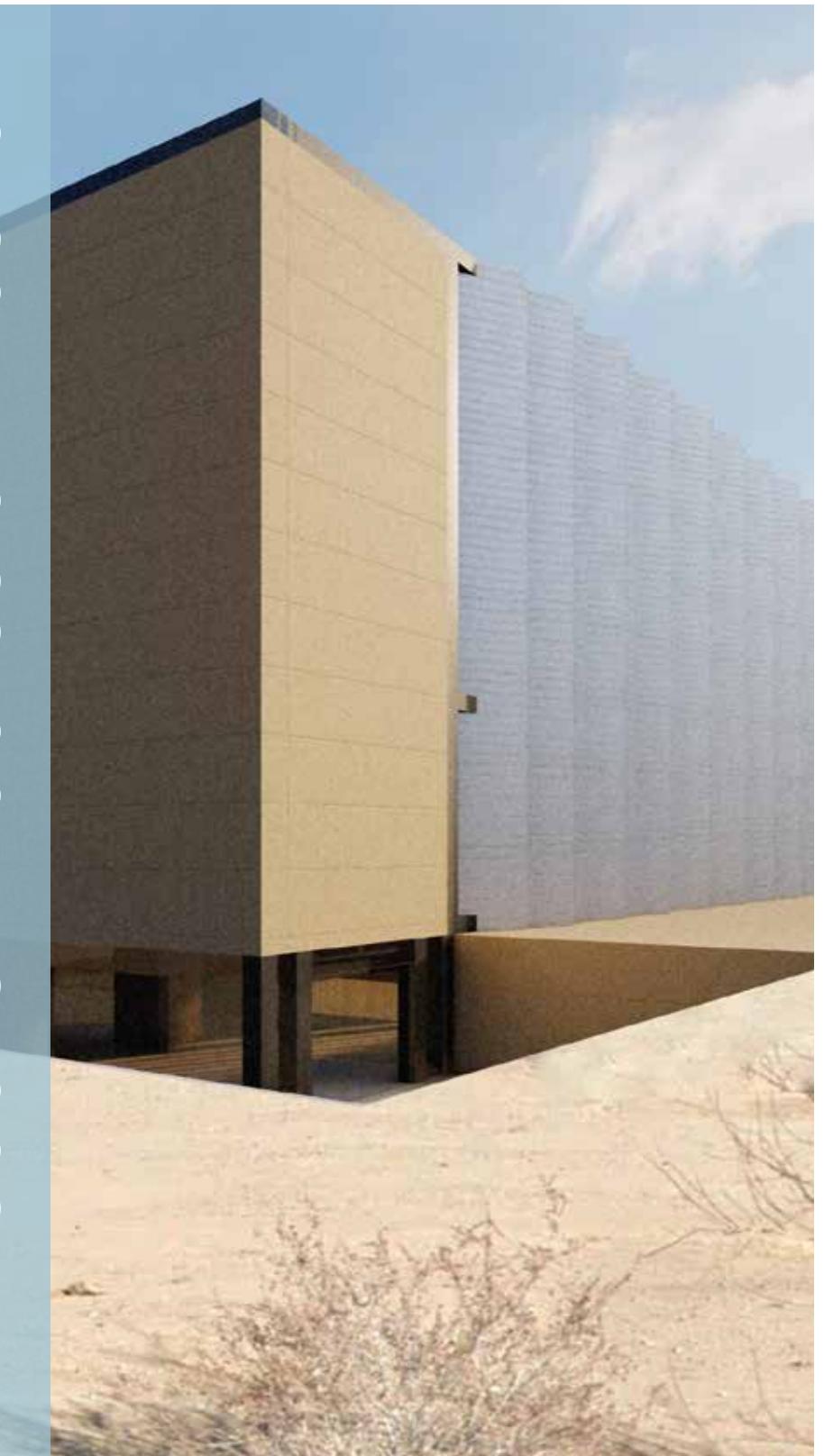
02

MT LEMMON SCIENCE CENTER



03

ALL SOULS PROCESSION MUSEUM



CONTENTS

ABC Culinary School

A Bisbee Community Culinary School



ABC Culinary School is a diverse educational institution, immersing students in the world of gastronomy through hands-on experiences in gardening, cooking, baking, coffee making, and food service. Uniquely positioned across different levels, each floor caters to distinct communities within strategic locations.

Brewery Avenue, pulsating with bars and vibrant nightlife, serves as a culinary hub for both Bisbee residents and the influx of tourists. The first level houses a spacious restaurant where culinary students showcase their skills to the public, fostering a dynamic interaction between students and the community. Additionally, a community kitchen provides an opportunity for Bisbee residents to attend cooking classes and experiment in a test kitchen.

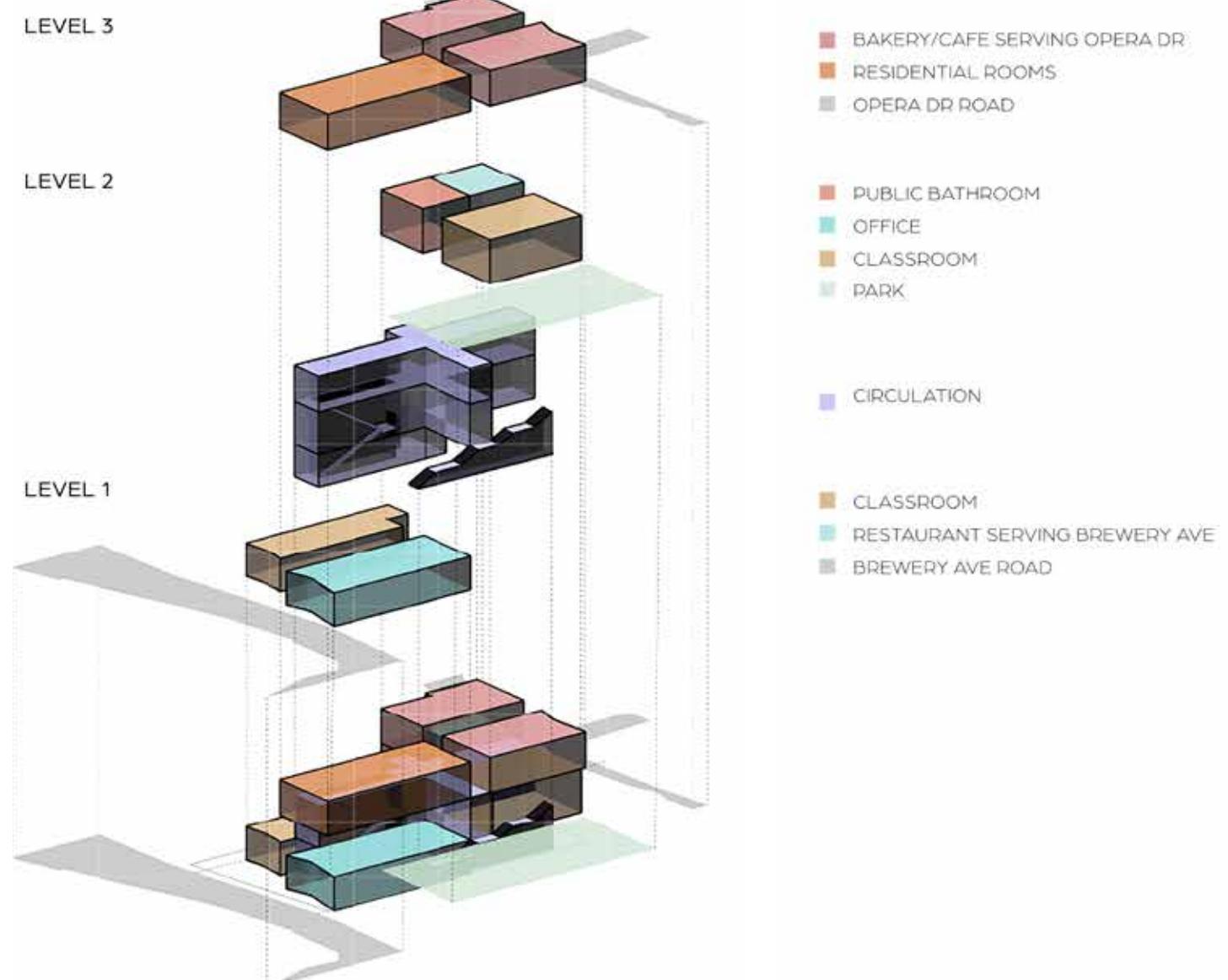
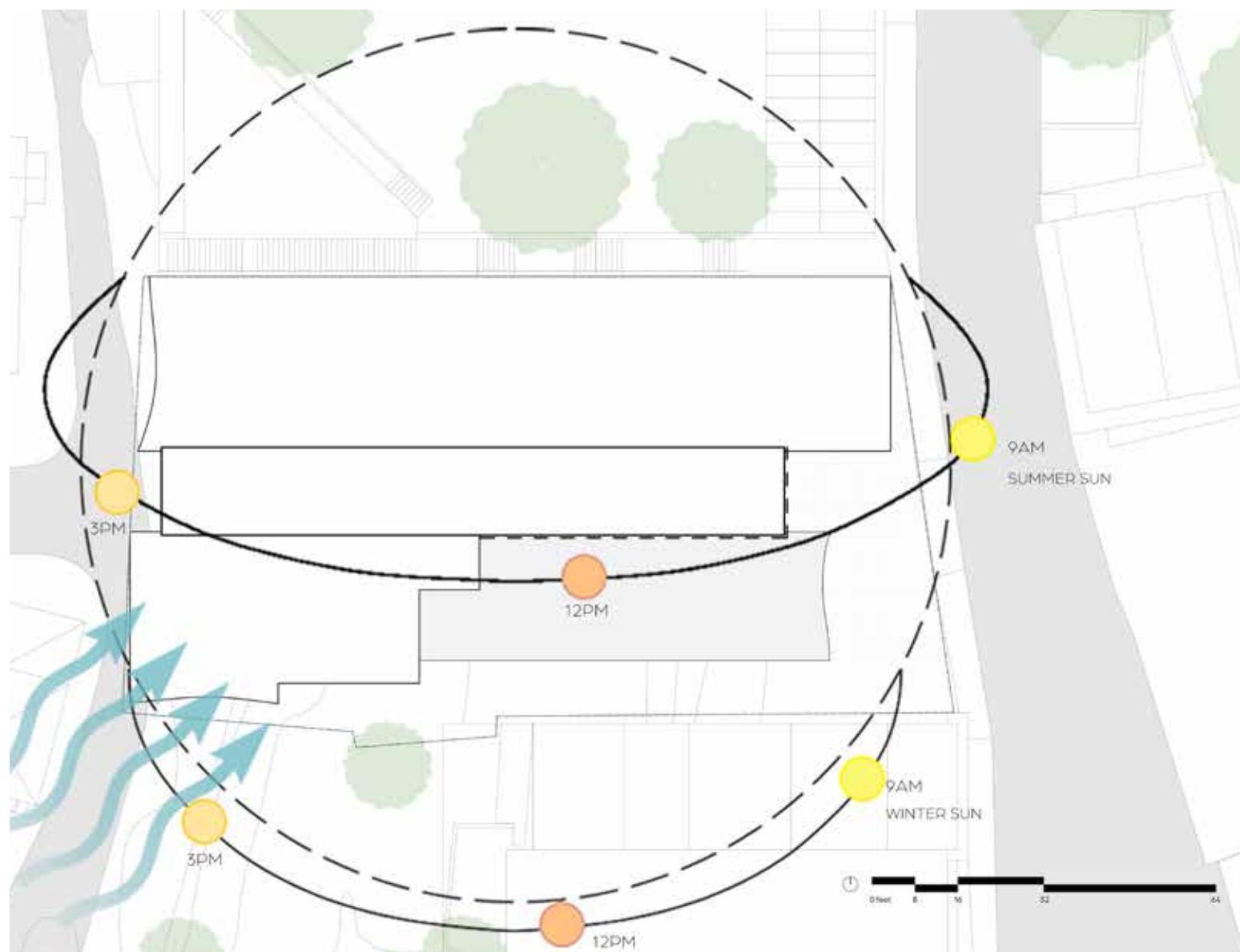
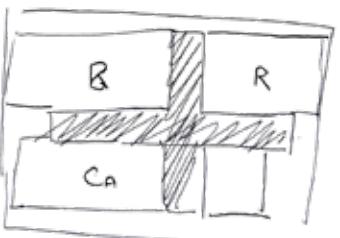
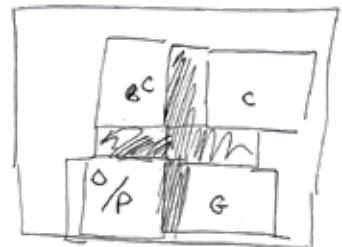
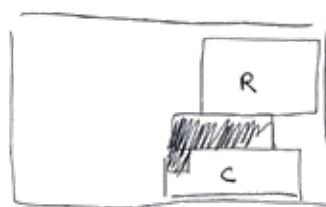
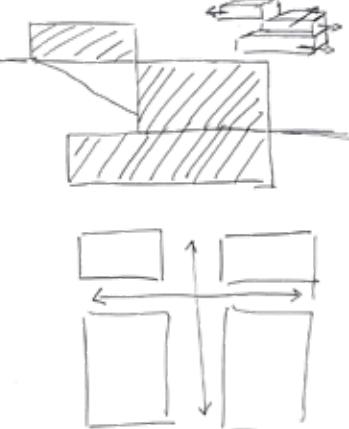
The second floor, partially nestled in the Earth and connected to Bisbee Old City Park, features essential spaces such as the main office, classrooms, and a rooftop area for seasonal vegetable cultivation by students. An outdoor lounge, seamlessly merging with the park, hosts a large kitchen for serving local residents, creating a vibrant community space.

The third floor, directly accessible from Opera Drive, a residential street, caters to both students and Bisbee residents. Hotel-style living quarters for students coexist with a bakery and café facing residential houses. This duo acts as a morning haven for locals seeking coffee and pastries, fostering a symbiotic relationship between the culinary school and the community.

A distinctive feature throughout the school is a smoke motif adorning the main circulation hallway. A perforated screenwall, echoing the smoky design, creates an enticing atmosphere symbolizing the sensory allure of cooking—capturing aromas, savoring smoked flavors, and embracing the multi-sensory experience inherent in the culinary arts. This motif not only serves an aesthetic purpose but also acts as a welcoming force, drawing the community into the immersive world of culinary education offered by ABC Culinary School.



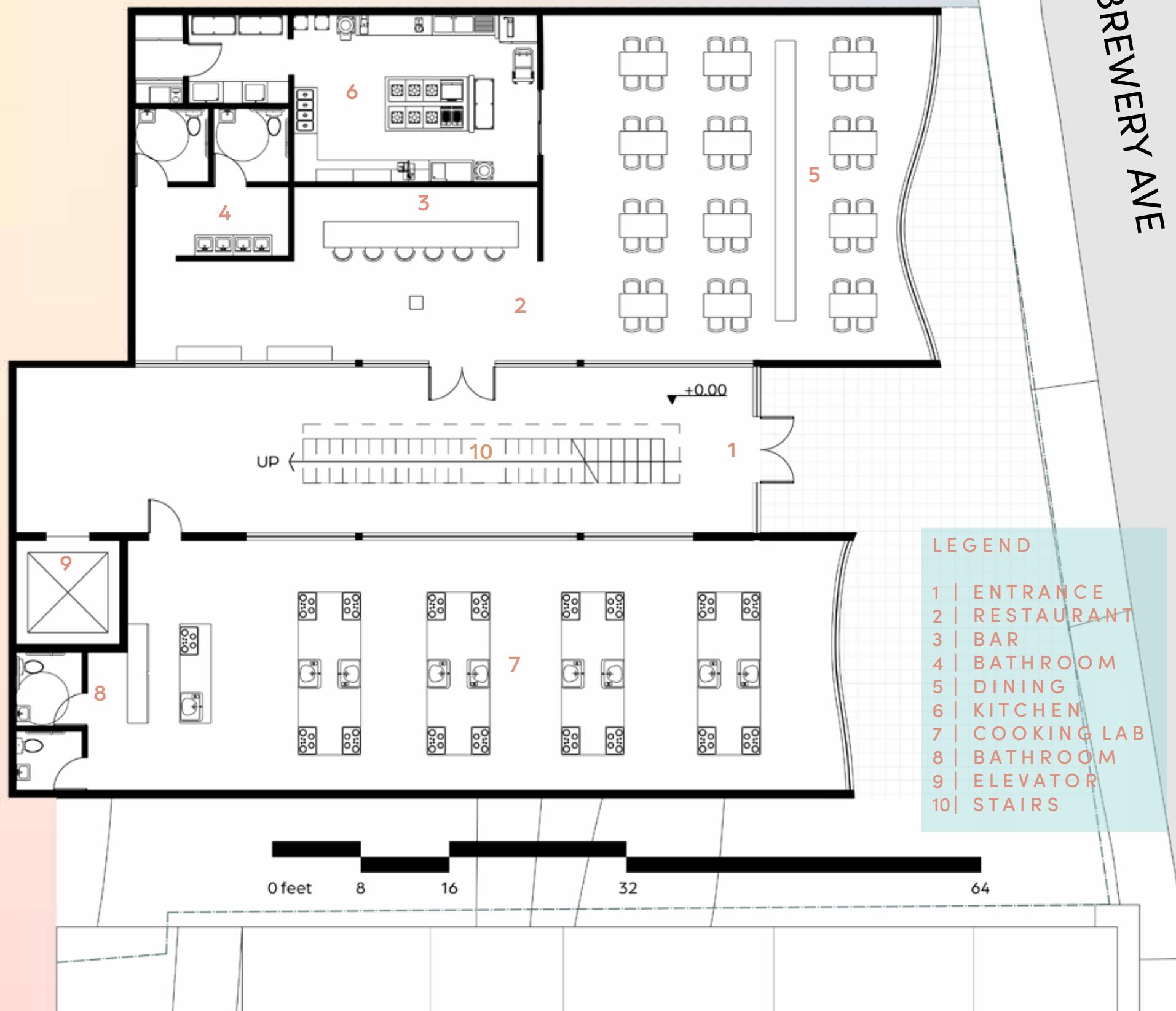
poetry school
bakery
- indoor
- living
- kitchen
- restaurant?
- outdoor
- sitting
- dining
- place for
community to
gather



① SITE ANALYSIS

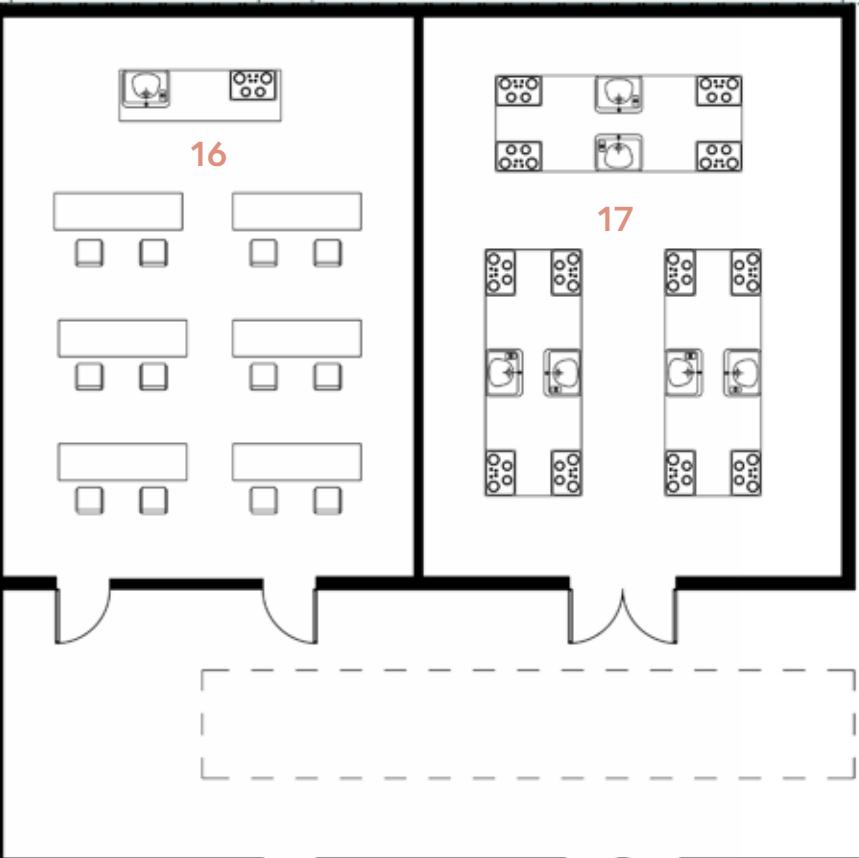
② PROGRAM DIAGRAM

BREWERY AVE

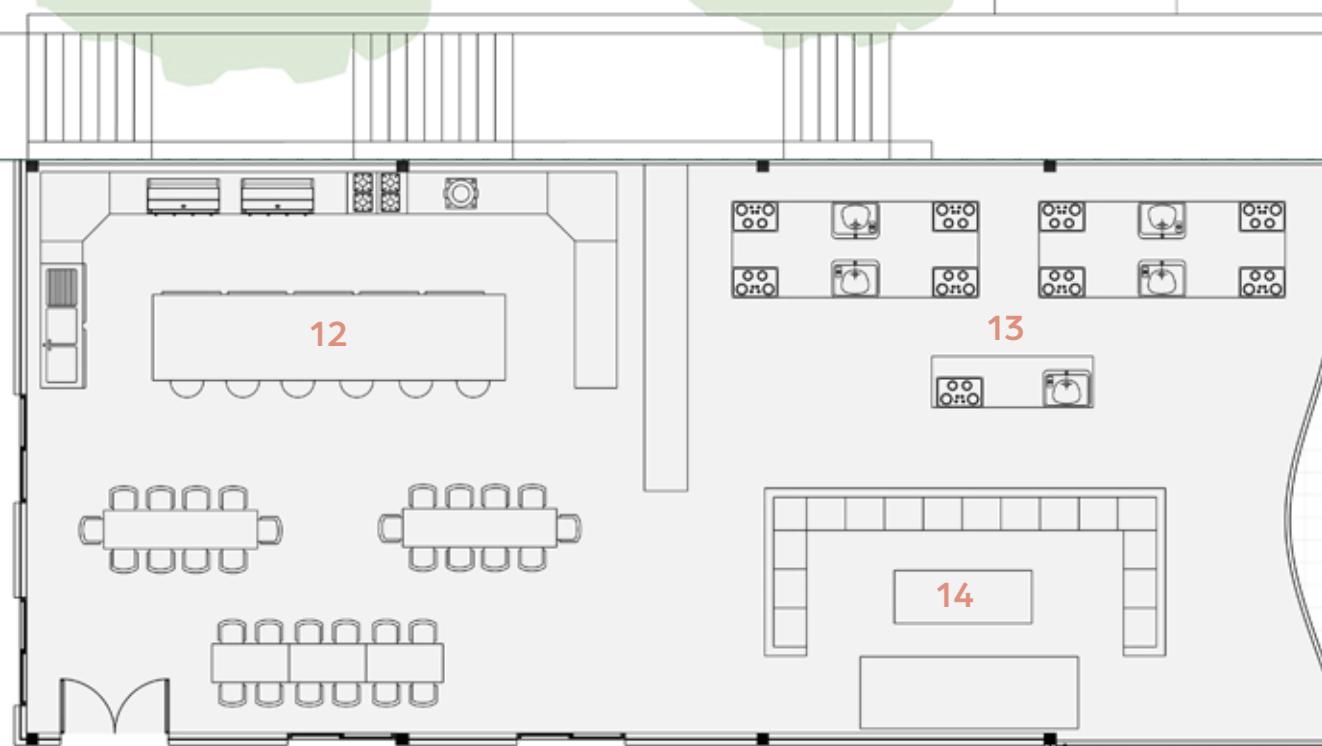


BISBEE OLD CITY PARK

BREWERY AVE

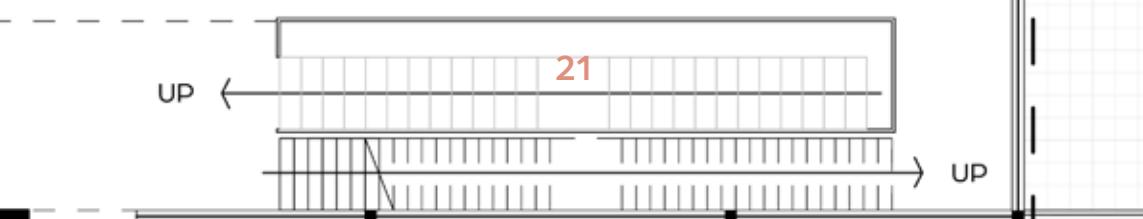


11

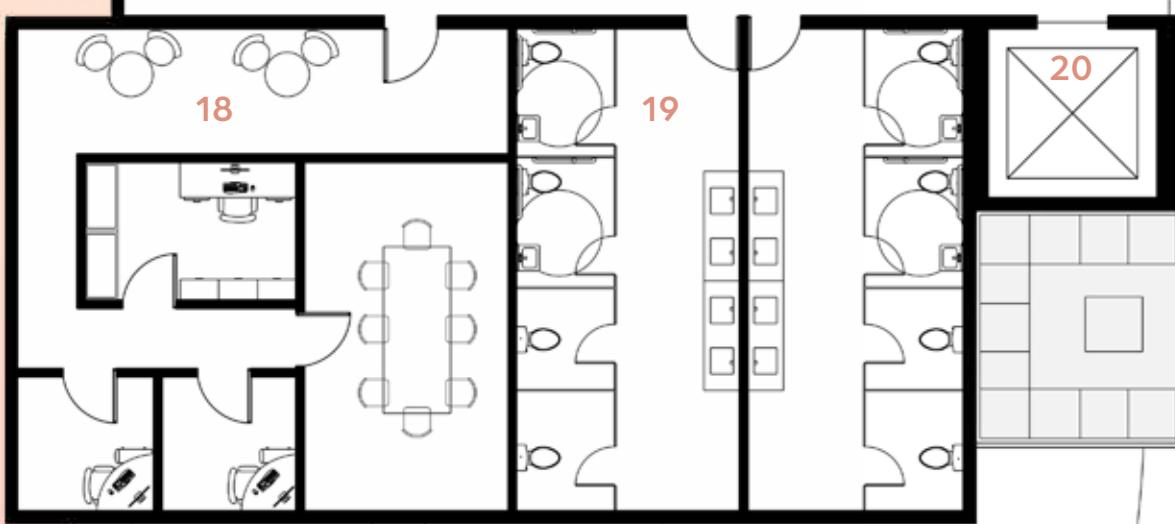


+16.00

21



15



0 feet 8 16

32

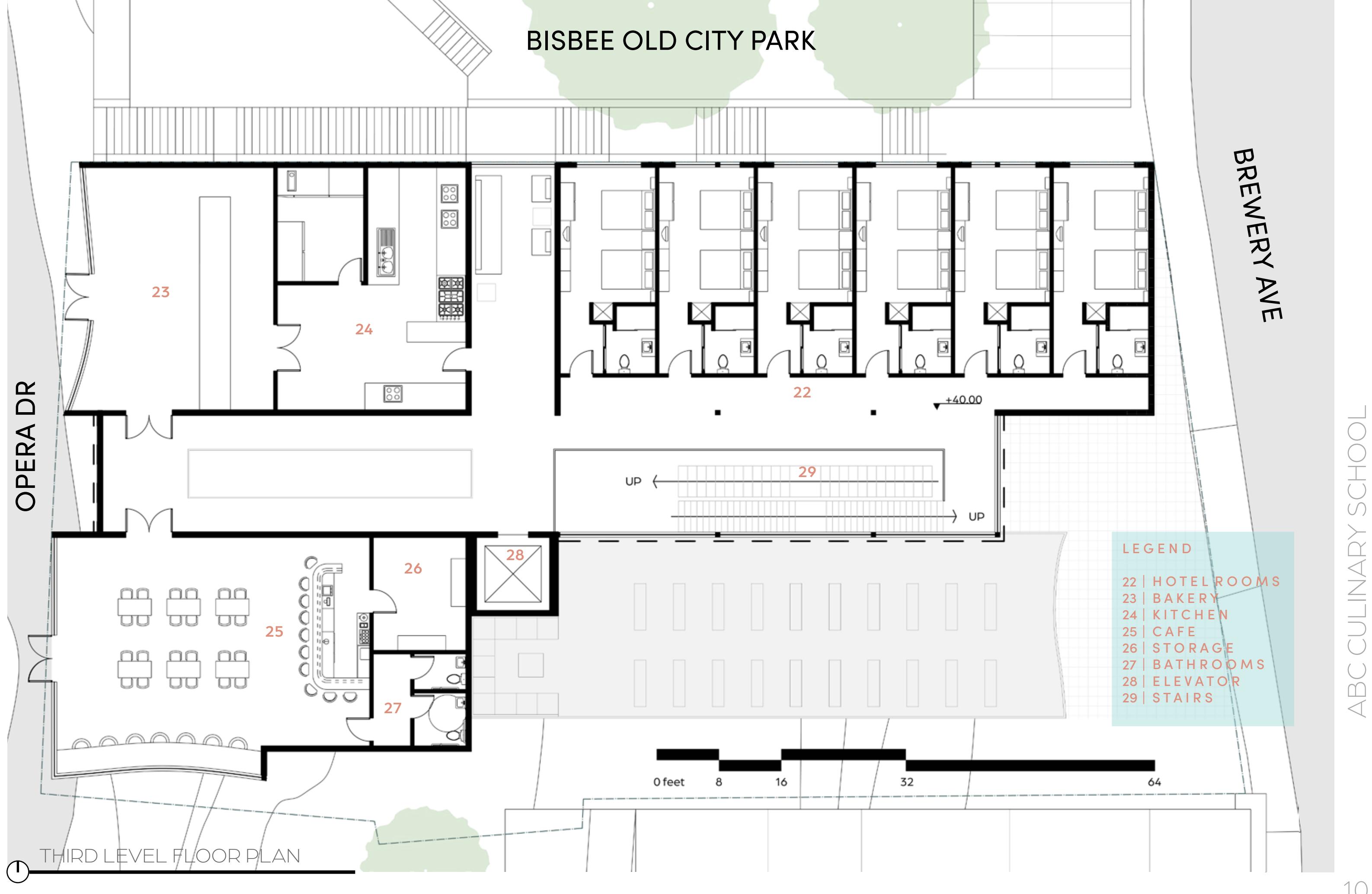
64

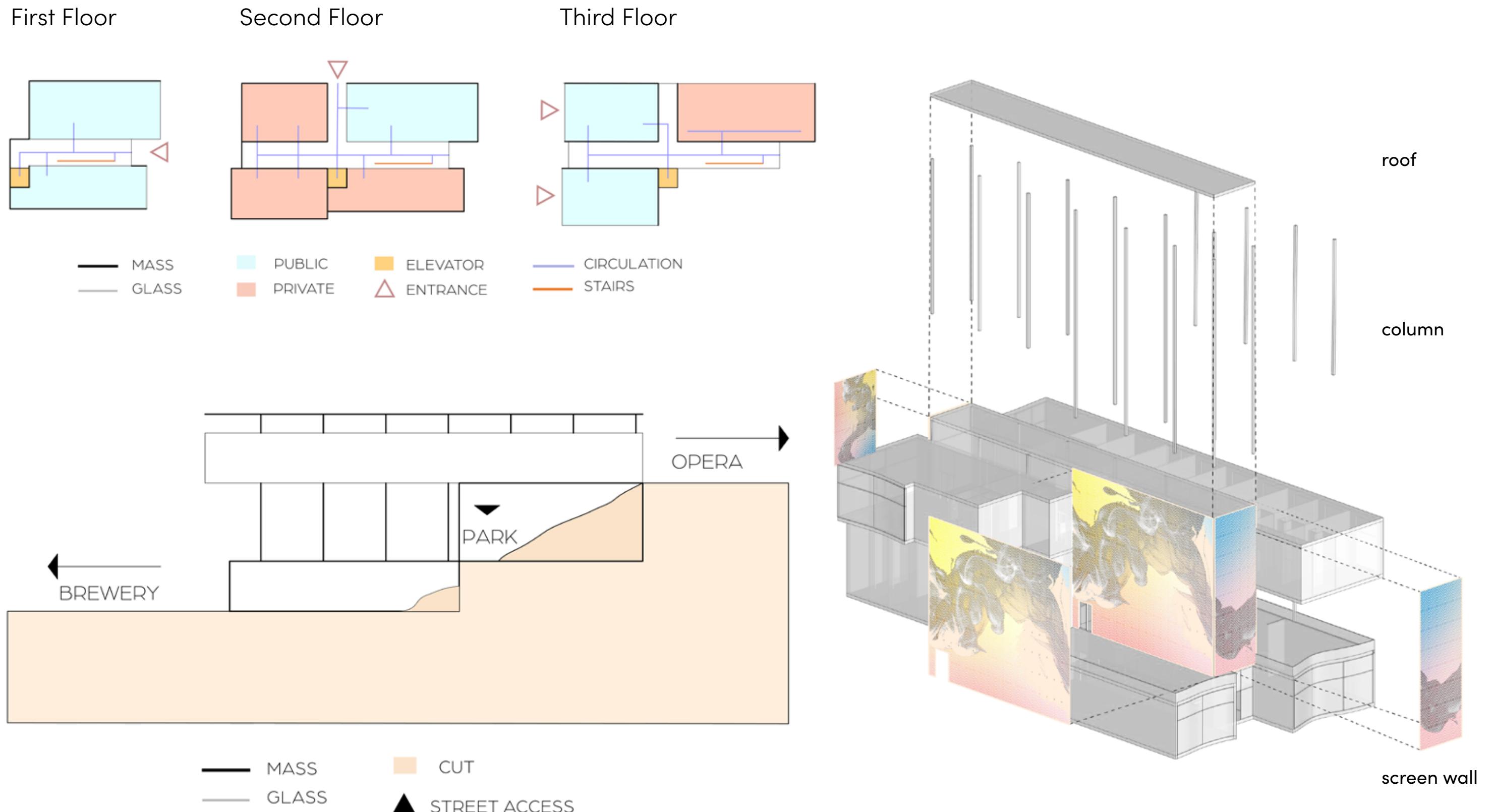
SECOND LEVEL FLOOR PLAN

LEGEND

- 11 | ENTRANCE
- 12 | OUTDOOR KITCHEN
- 13 | OUTDOOR CLASSROOM
- 14 | LOUNGE
- 15 | OUTDOOR GARDEN
- 16 | LECTURE CLASSROOM
- 17 | KITCHEN CLASSROOM
- 18 | OFFICE
- 19 | BATHROOM
- 20 | ELEVATOR
- 21 | STAIRS

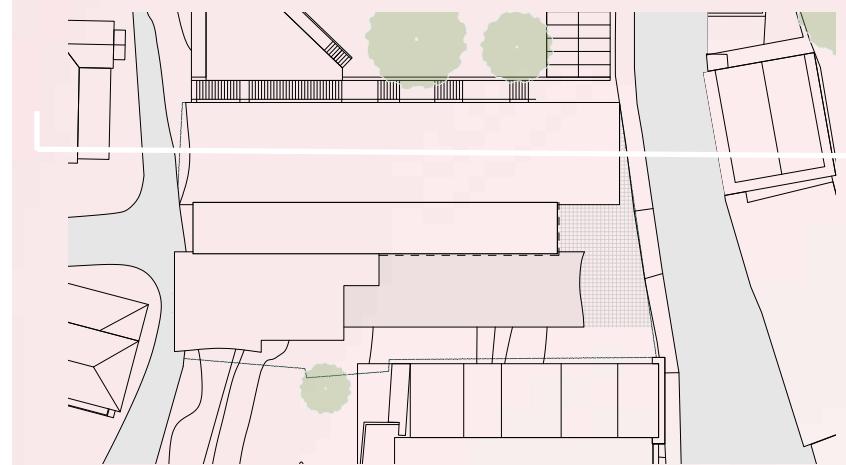
BISBEE OLD CITY PARK





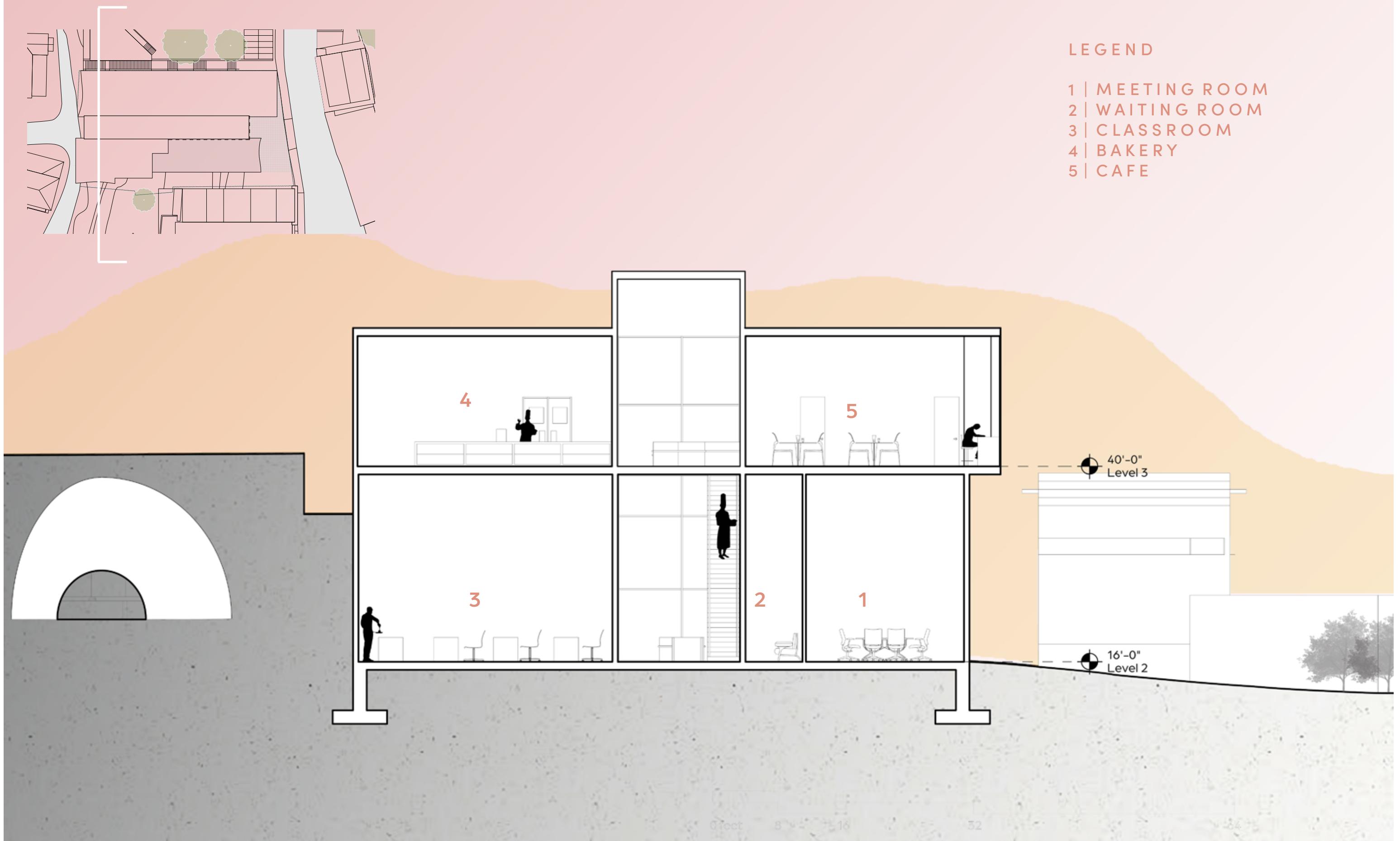
LEGEND

- 1 | RESTAURANT
- 2 | BAR
- 3 | LECTURE CLASSROOMS
- 4 | KITCHEN CLASSROOM
- 5 | OUTDOOR KITCHEN
- 6 | OUTDOOR CLASSROOM
- 7 | BAKERY
- 8 | BAKERY KITCHEN
- 9 | HOTEL ROOMS



SECTION FACING NORTH

0 feet 8 16 32 64



Opera Dr Entrance (West)



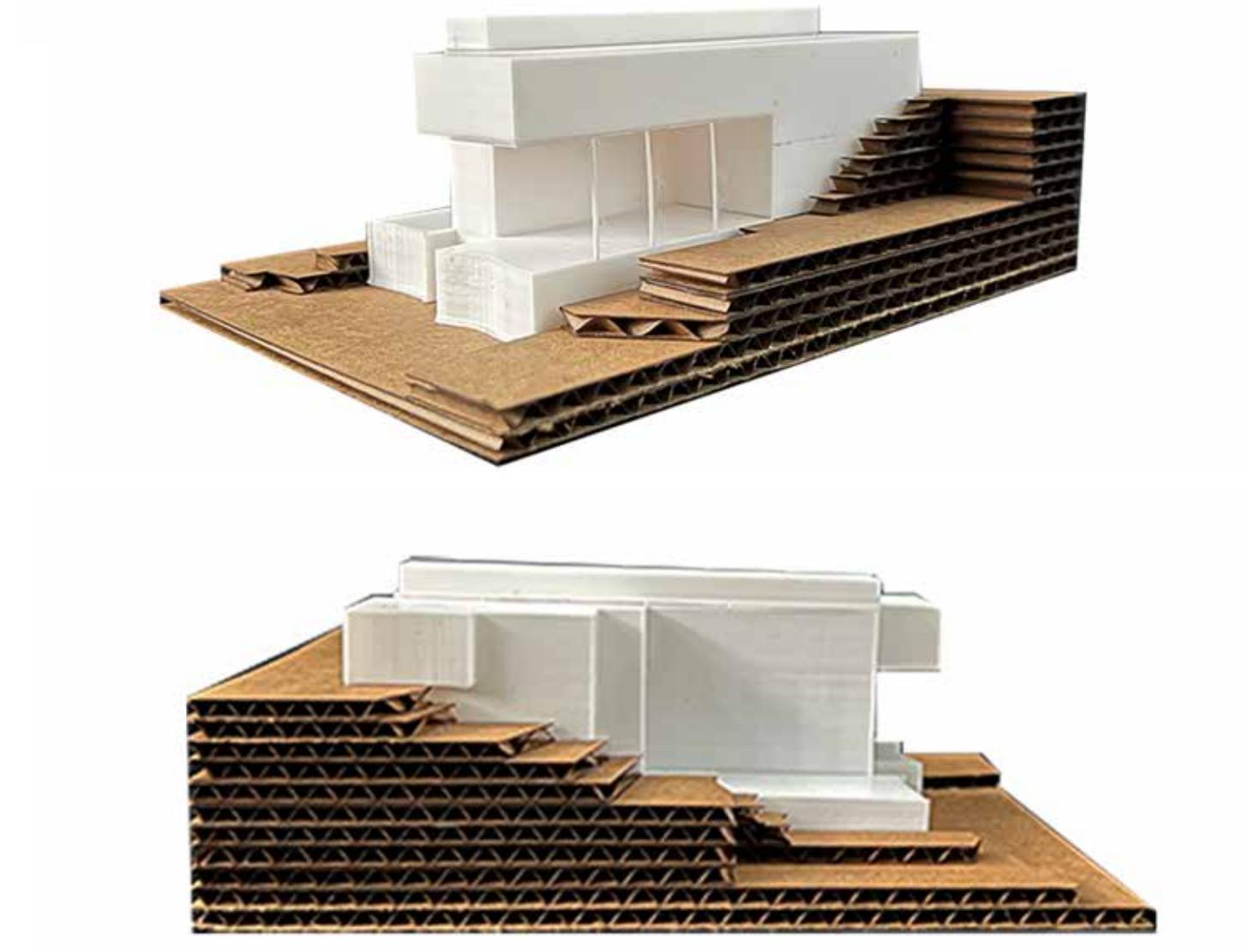
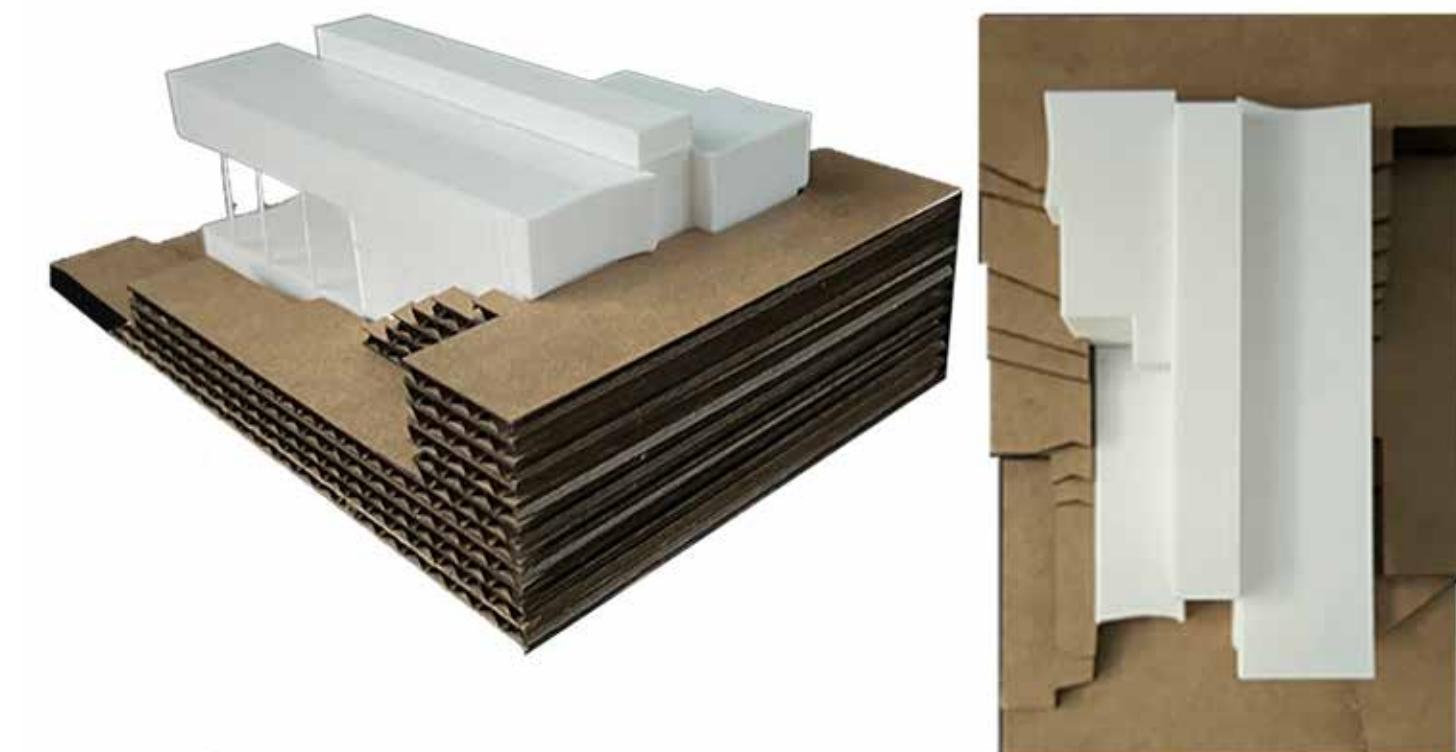
Park Entrance (North)



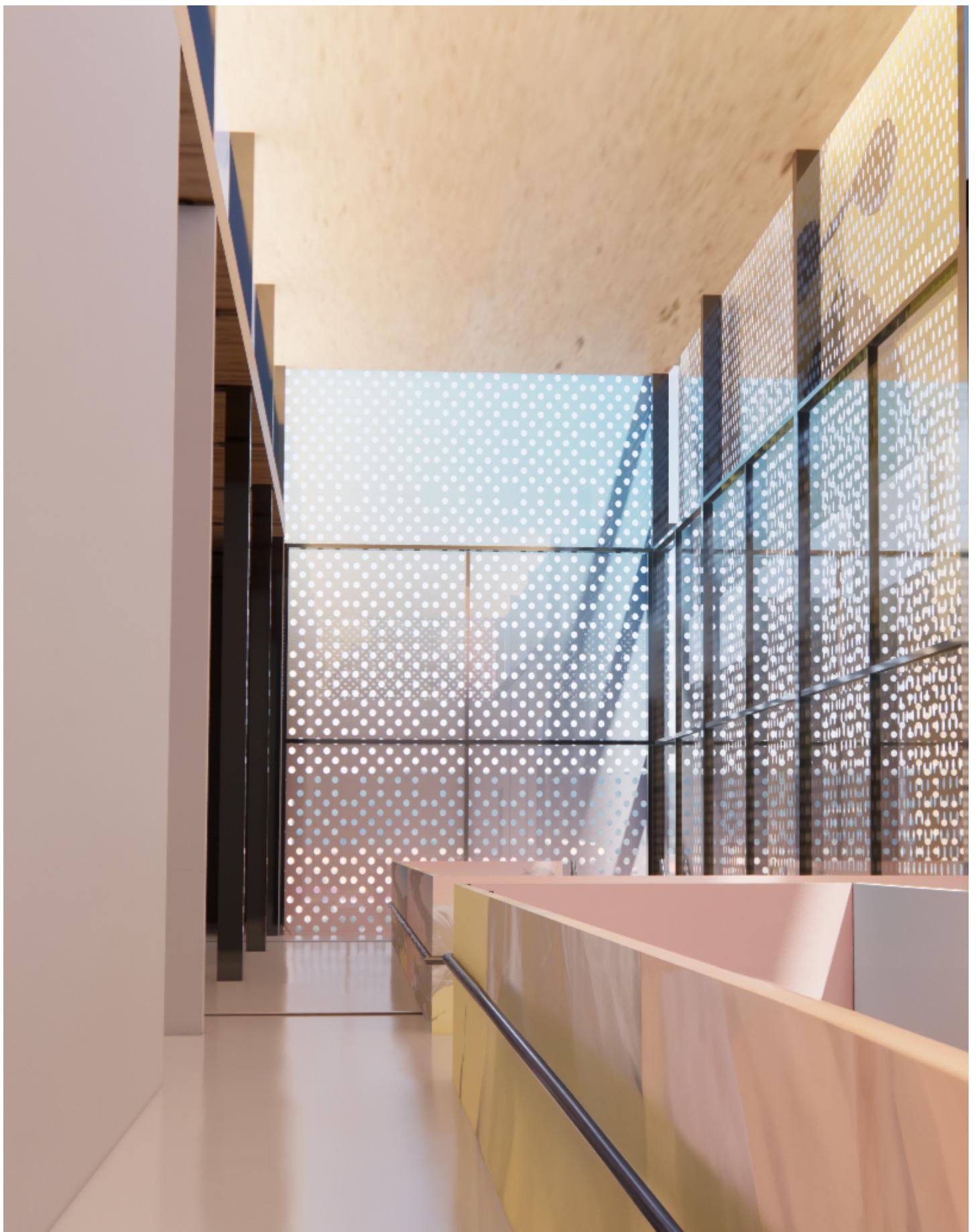
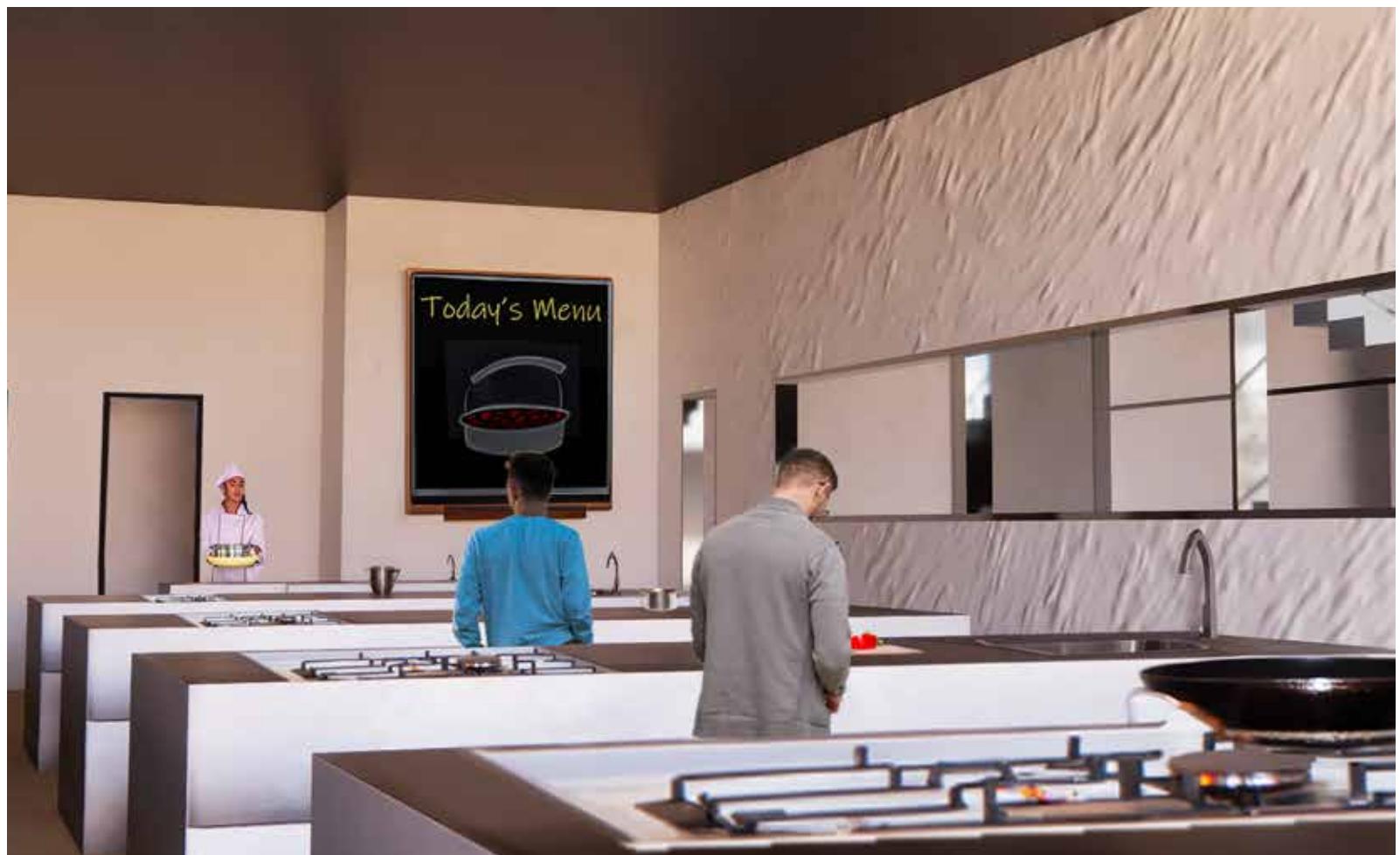
Brewery Ave Entrance (East)



ELEVATIONS



MODEL PHOTOS



Mt. Lemmon Science Center

A Spiraling Journey For Everyone

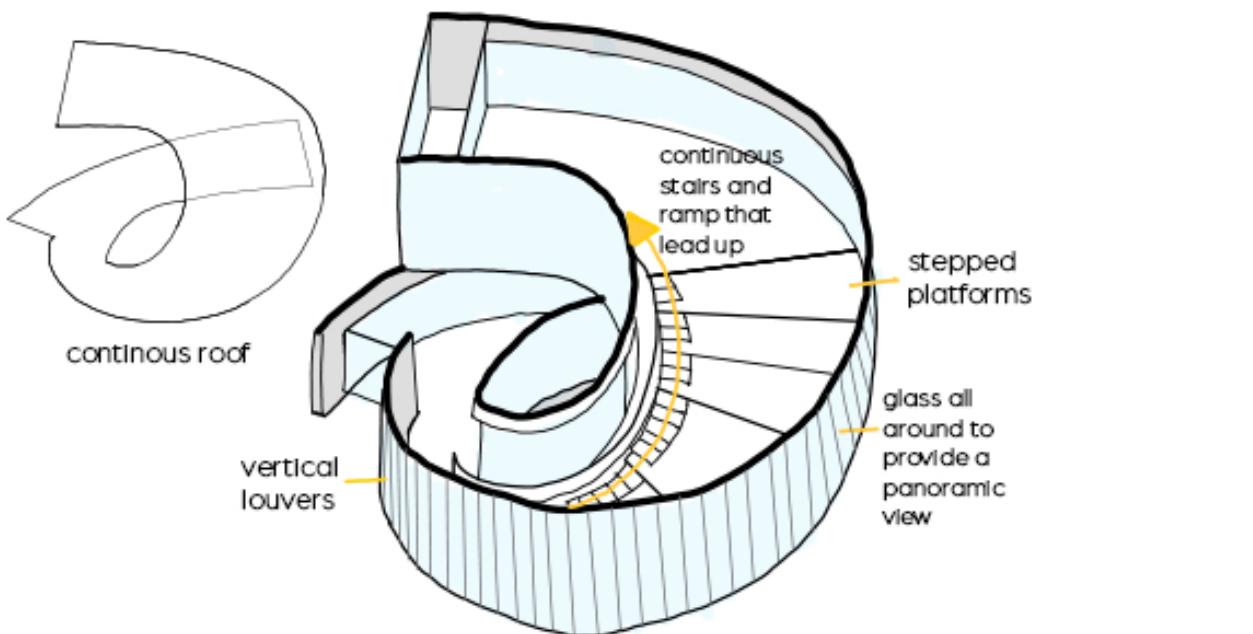
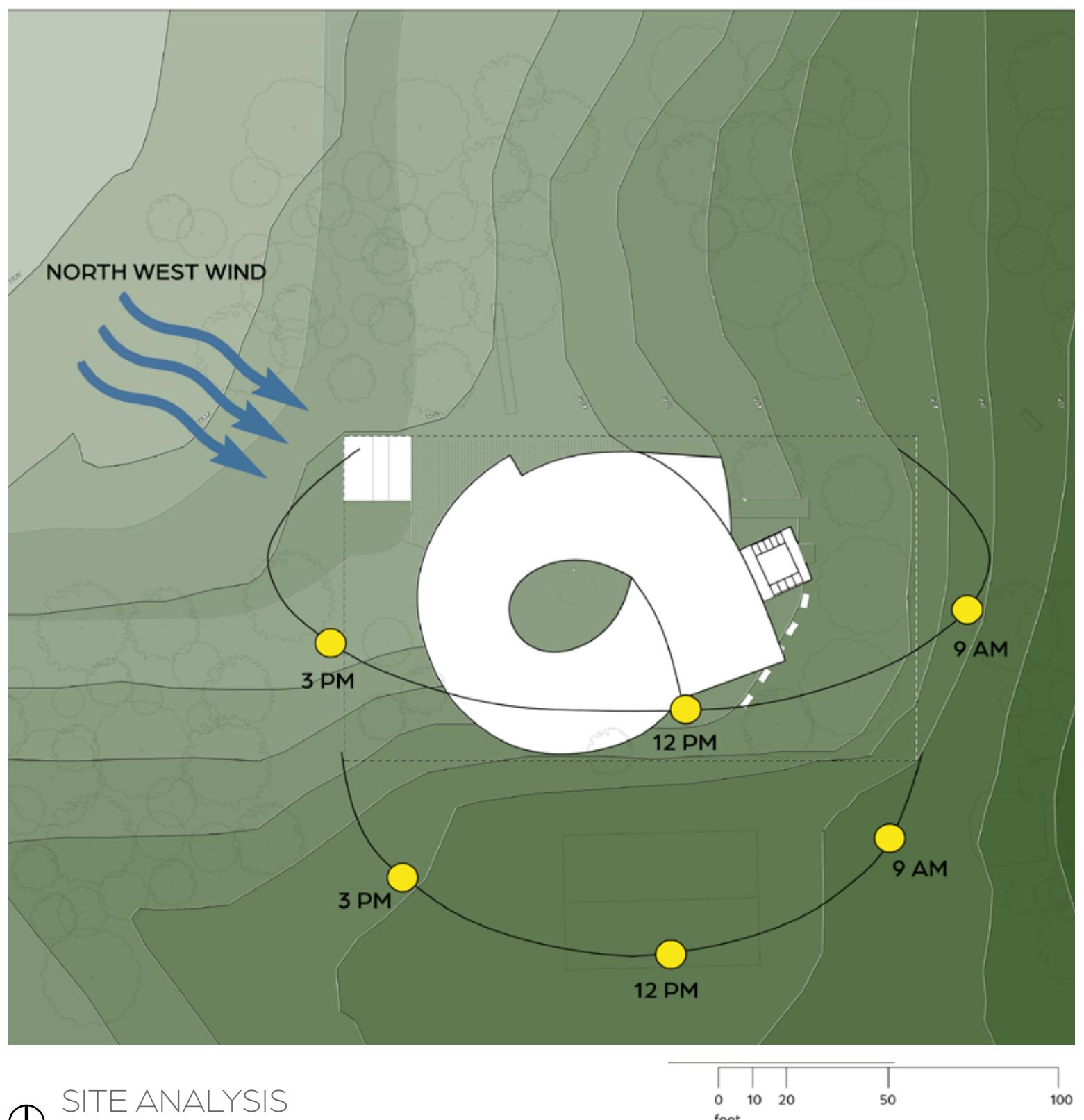
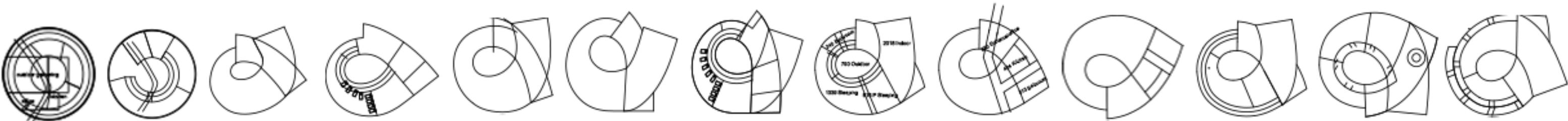


The design concept for Mt. Lemmon Science Center draws inspiration from the Serpentine Bookhouse by Atelier XI with a vision to serve as a unique and immersive residence for the young, inquisitive minds of children aged 7-13 seeking to learn about science and nature.

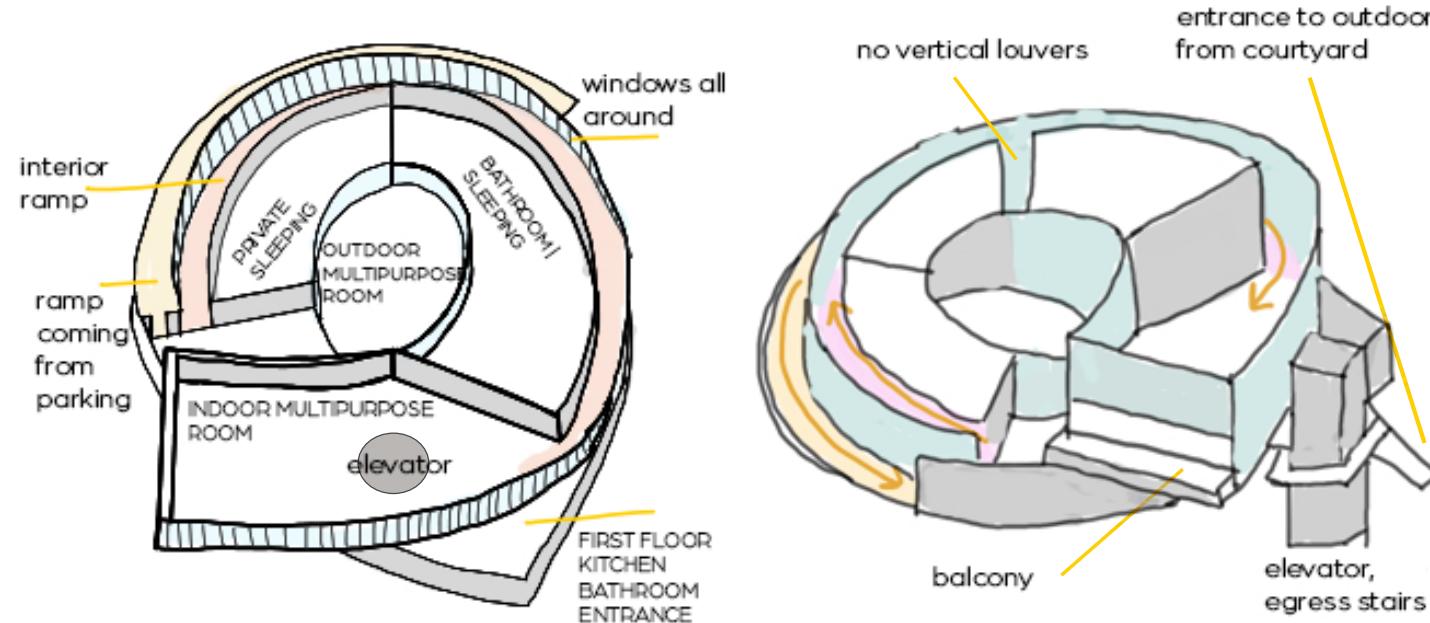
The building's serpentine form gracefully weaves its way through the natural landscape, mirroring the contours of the mountain and creating an organic connection with the surroundings. The building features large, floor-to-ceiling glass walls to provide panoramic views of the stunning mountain landscape. Both external and internal ramps ensure universal access, with the exterior ramp guiding visitors from the parking lot to the entrance and the interior ramp providing access to all rooms.

The private spaces are nestled within the curve of the building, offering a sense of seclusion and comfort. The end of the interior ramp opens into a spacious indoor multipurpose room that overlooks the stunning South East vistas of the surrounding landscape. This versatile space serves as a central hub for scientific exploration, events, and communal gatherings, fostering a collaborative and engaging atmosphere for young residents and visitors alike.

Additionally, at the heart of the serpentine structure, a large open communal area leads to an outdoor exploratory space, allowing children to learn and explore in harmony with nature. This innovative science center and residence seeks to inspire the next generation of scientists, instilling a deep appreciation for the natural world.



Precedent

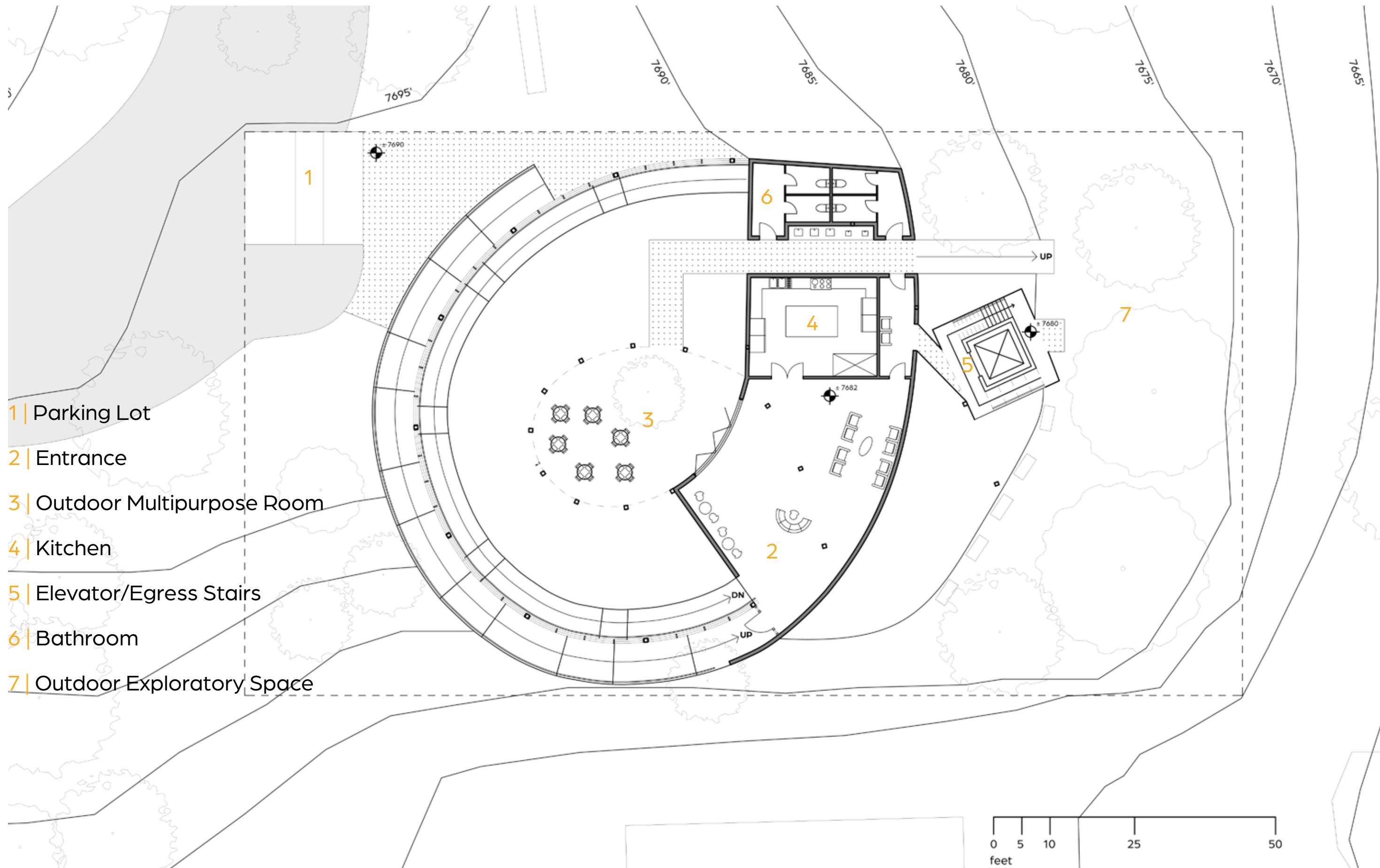


Initial Design

Revised Design

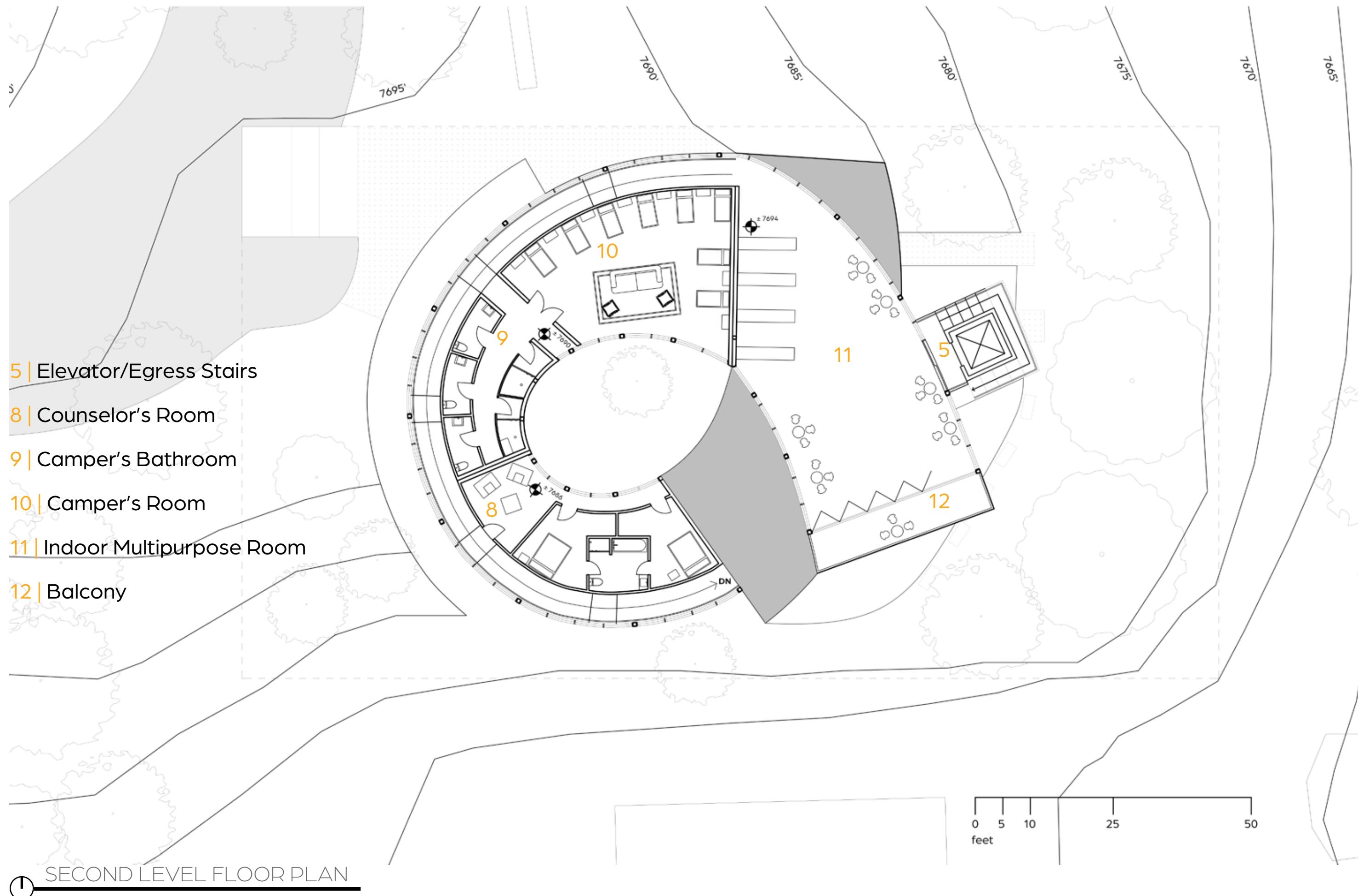
CONCEPT DESIGN

MT. LEMMON SCIENCE CENTER

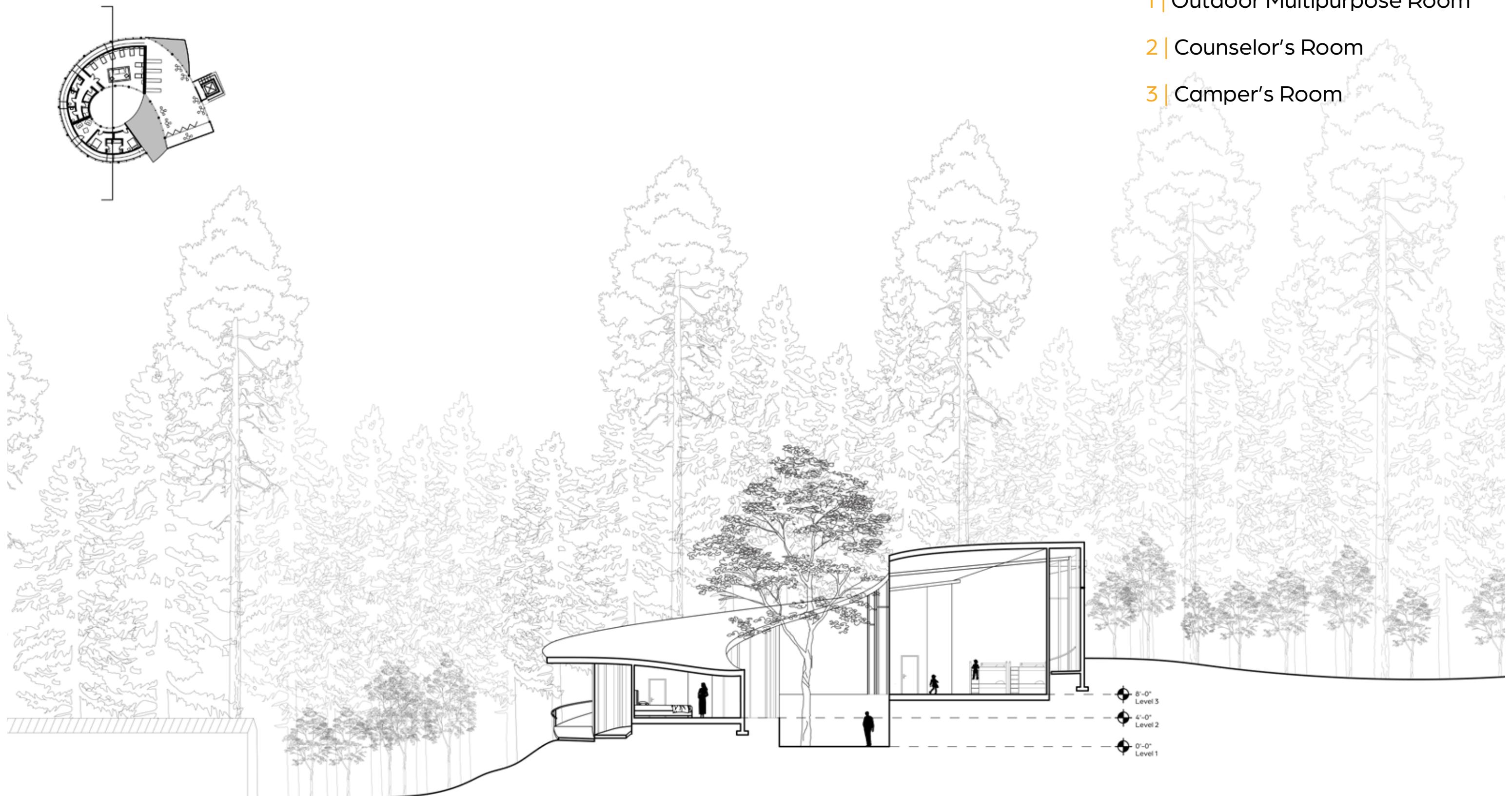


① FIRST LEVEL FLOOR PLAN

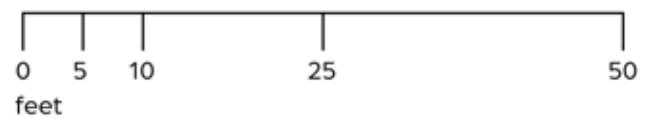
MT. LEMMON SCIENCE CENTER

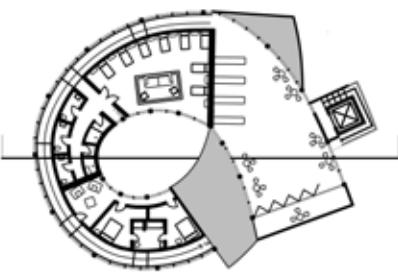


- 1 | Outdoor Multipurpose Room
- 2 | Counselor's Room
- 3 | Camper's Room



SECTION FACING WEST

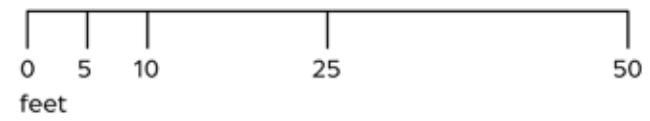




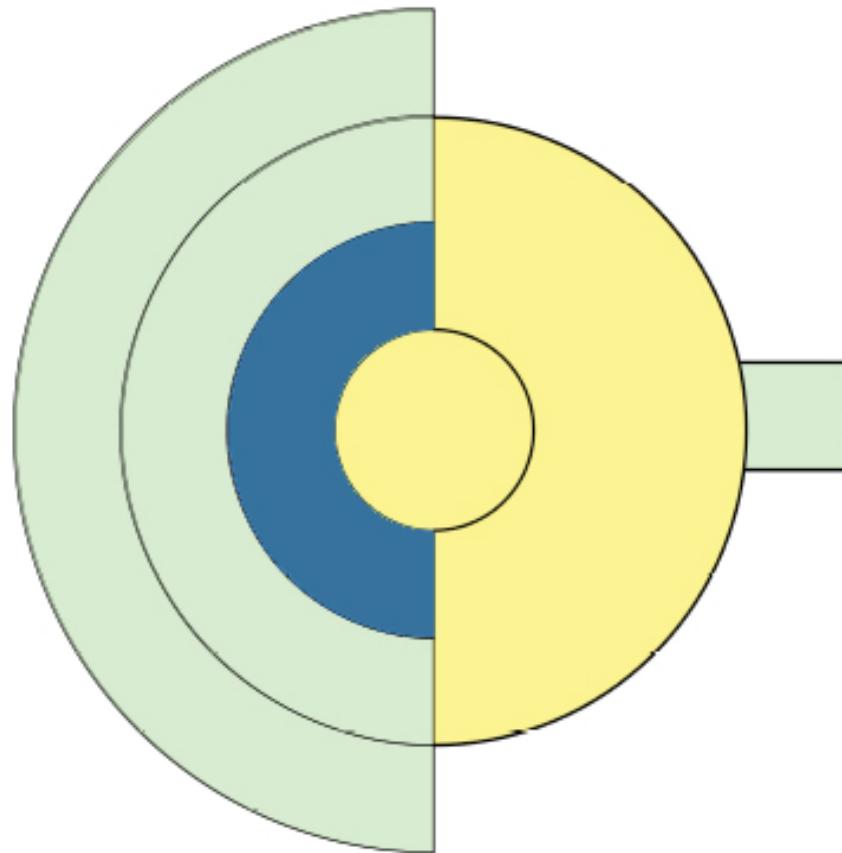
- 1 | Parking Lot
- 2 | Entrance
- 3 | Outdoor Multipurpose Room
- 4 | Camper's Bathroom
- 5 | Indoor Multipurpose Room



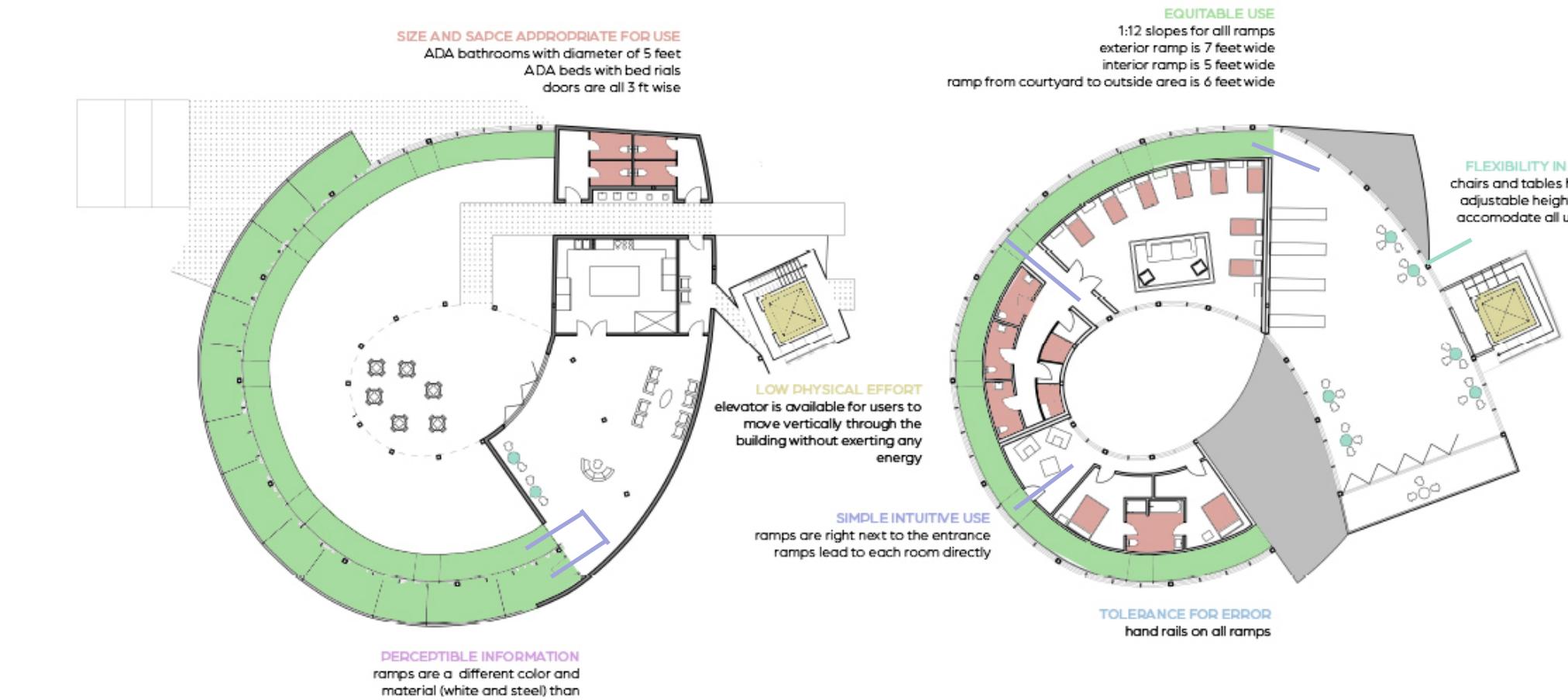
SECTION FACING NORTH



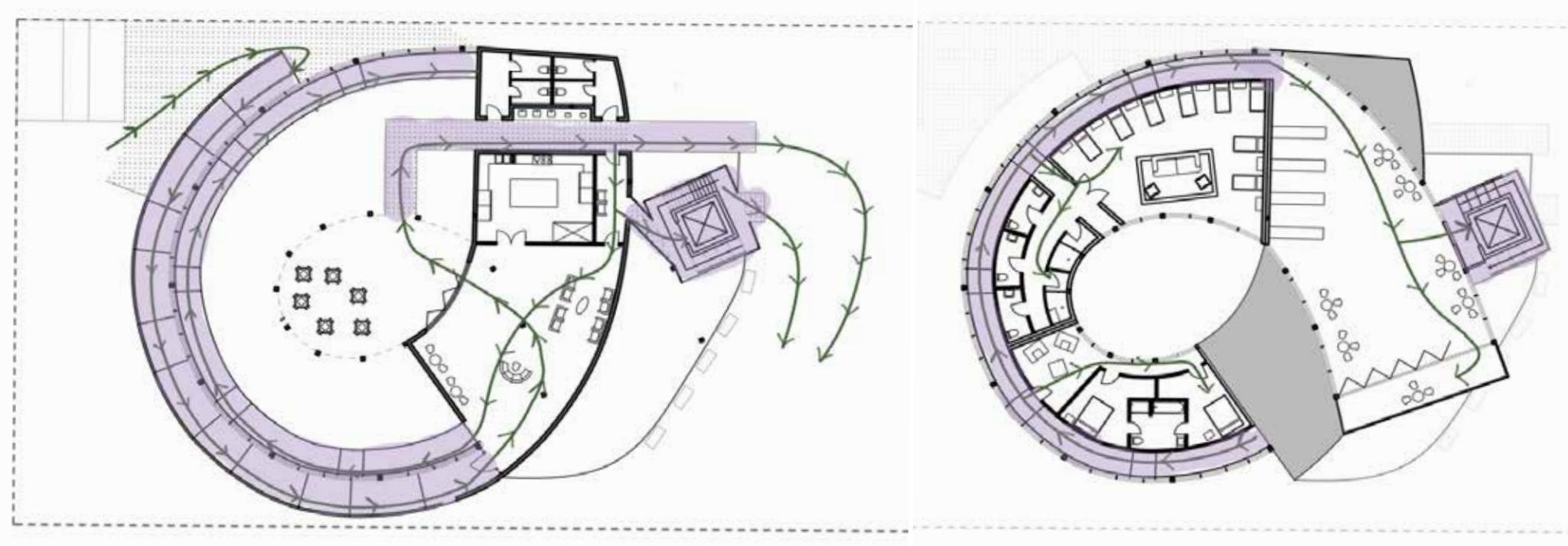
UNIVERSAL DESIGN



CIRCULATION
PRIVATE
PUBLIC



CIRCULATION



DIAGRAMS

RAMPS, ELEVATOR, STAIRS



EAST



NORTH



SOUTH

ELEVATIONS



WEST



MT. LEMMON SCIENCE CENTER

RENDERS

All Souls Procession Museum

A Look at Life, Death, and Spiritual Transcendence



The C-shaped three-story museum is a captivating homage to the Tucson All Souls Procession and a symbolic exploration of life, death, and spiritual transcendence.

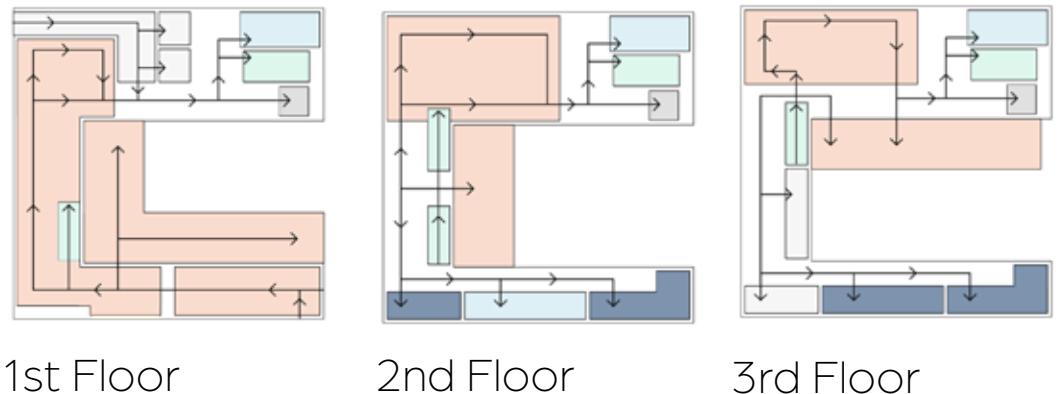
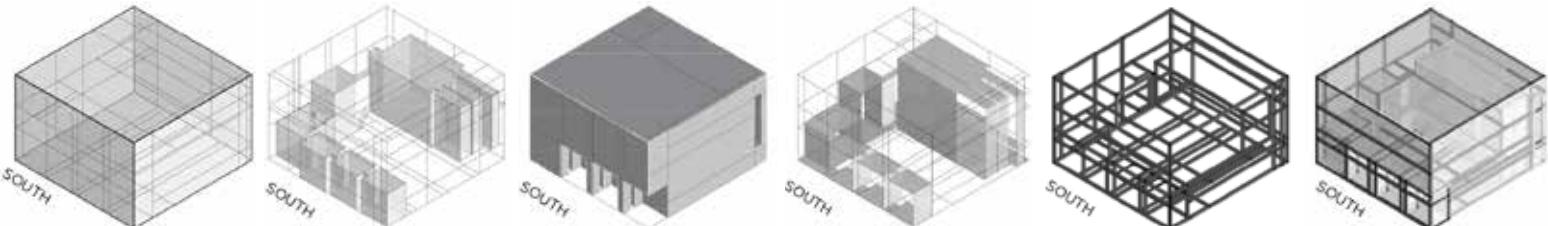
The museum's design weaves together the stages of existence. Commencing 8 feet underground, the below-ground floor serves as a profound representation of death, painted in somber tones. As visitors ascend to the Earth-level second floor, they enter a realm symbolizing the reunion of deceased loved ones with their earthly descendants, adorned with vibrant hues reflecting the vitality of life.

In the third floor, high ceilings and pristine white walls create an ethereal space symbolizing the journey back to heaven. This celestial realm captures the essence of spiritual transcendence and the eternal cycle of existence, completing the metaphorical narrative inspired by the All Souls Procession.

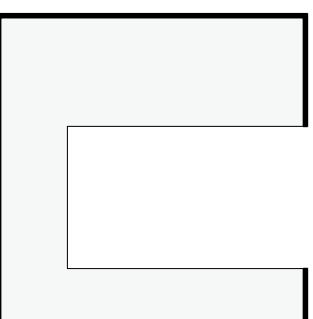
Amidst this symbolic narrative, the museum boasts a thoughtfully designed layout. Three indoor and three outdoor galleries on each floor provide a dynamic exhibition space. The outdoor galleries are nestled within a central courtyard adorned with a skylight, allowing for natural ventilation through a stacked ventilation system. Each gallery offers a clear view of a reflecting pool on the ground floor, not only enhancing aesthetics but also serving as a water harvesting station during rain.

The East-facing courtyard is shielded by a steel shading screen wall, ensuring sculptures and ornamental pieces are preserved from direct sunlight. Strategic spacing of galleries around the C-shaped structure allows upper levels to provide shade for the lower ones, complemented by roof overhangs.

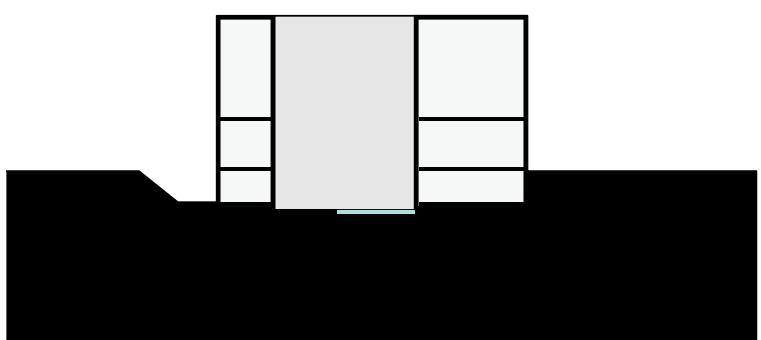
The museum's exterior, predominantly constructed from concrete, harnesses its high thermal mass to regulate heat absorption. Internal plaster insulation enhances thermal efficiency. Structural elements, including columns and frames, not only provide stability but also contribute to the aesthetic appeal. Tension forces, exemplified by cable railings and outdoor gallery balconies, add a dynamic and visually striking dimension to the building.



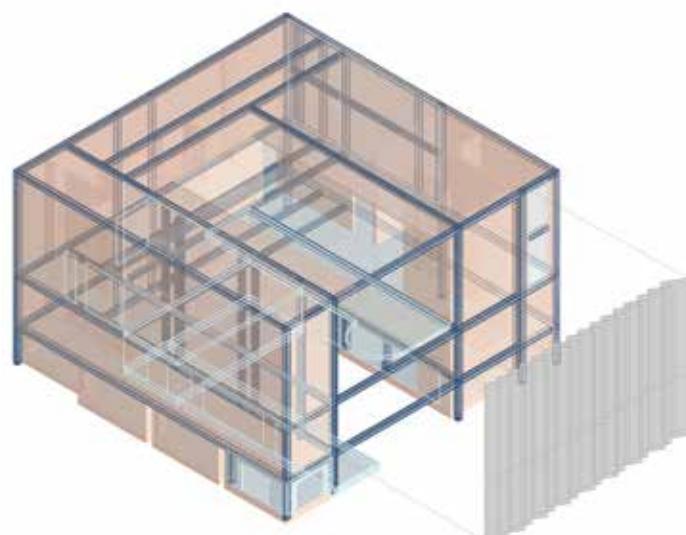
CIRCULATION TO USE



PARTI

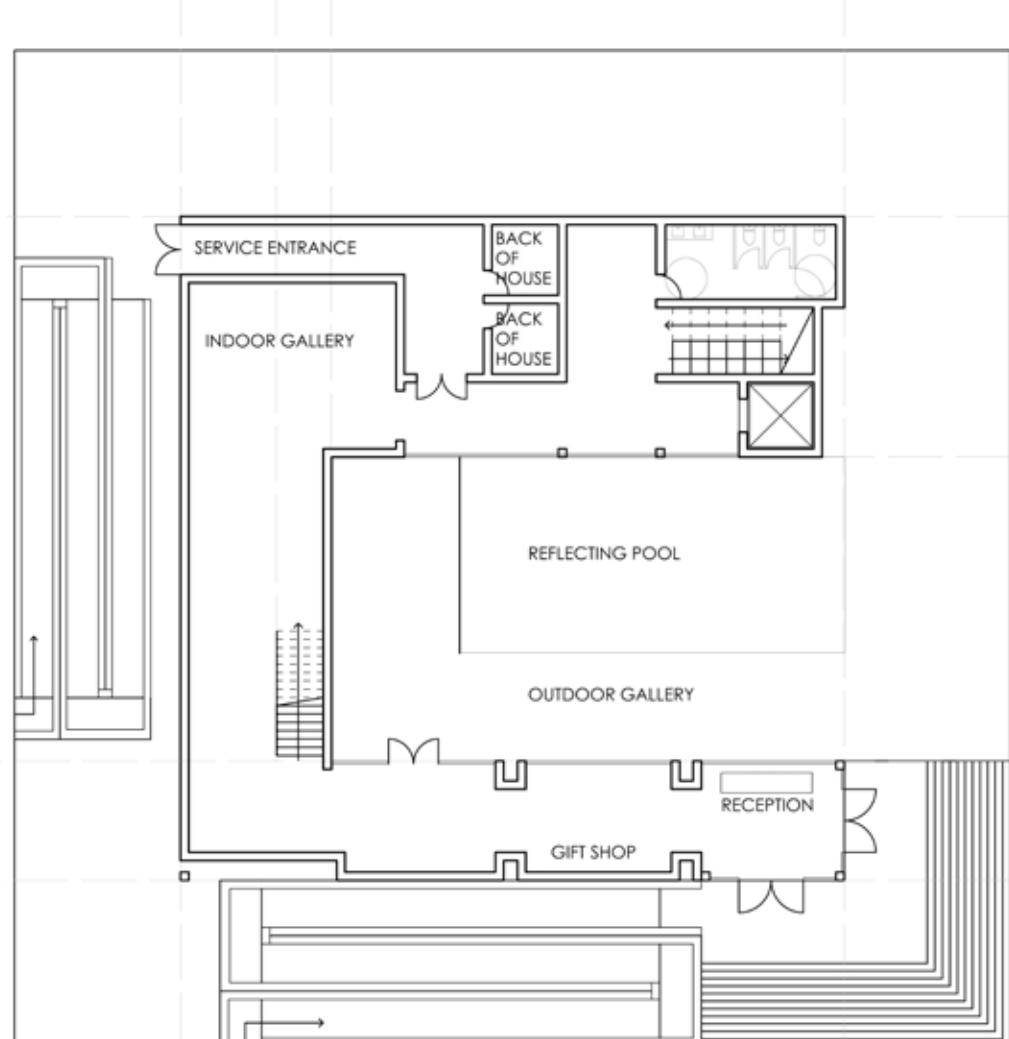


PARTI SECTION

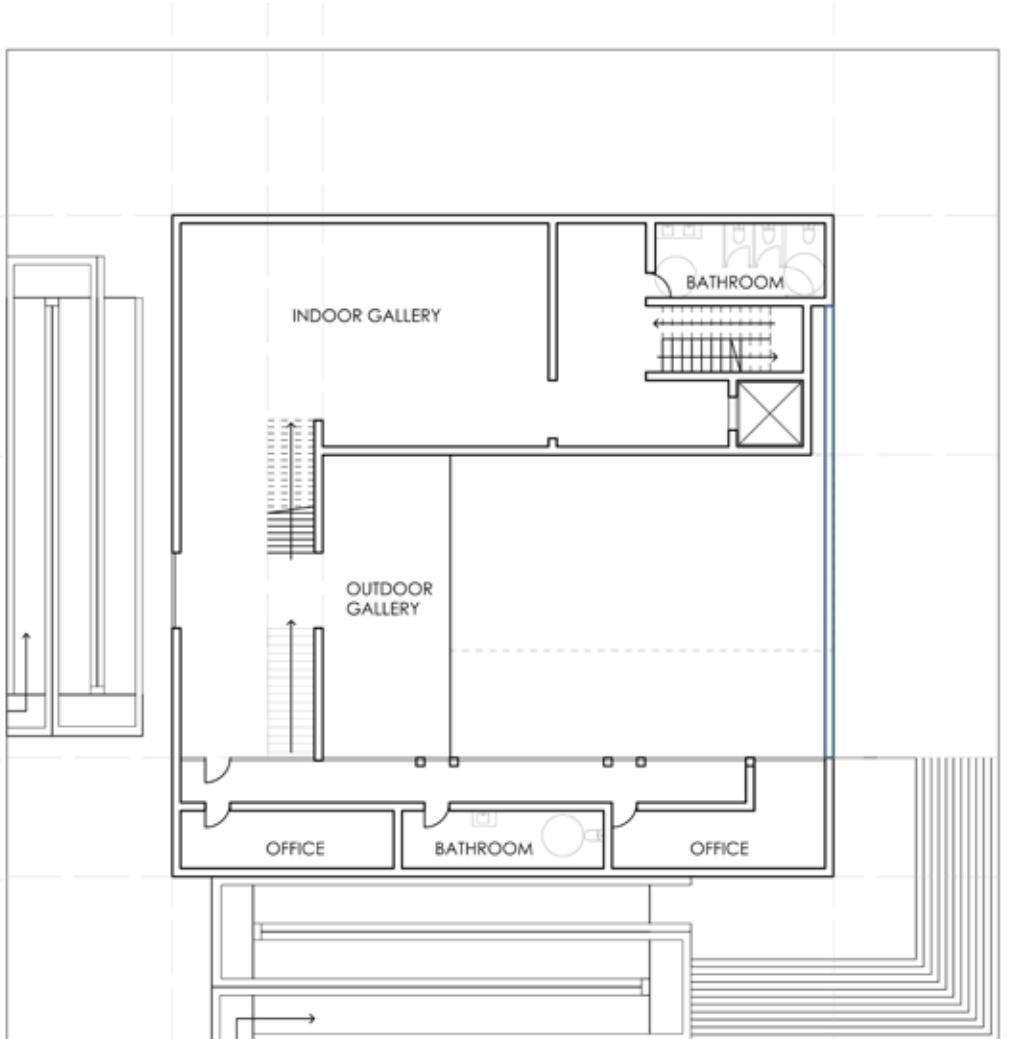


AXONOMETRIC

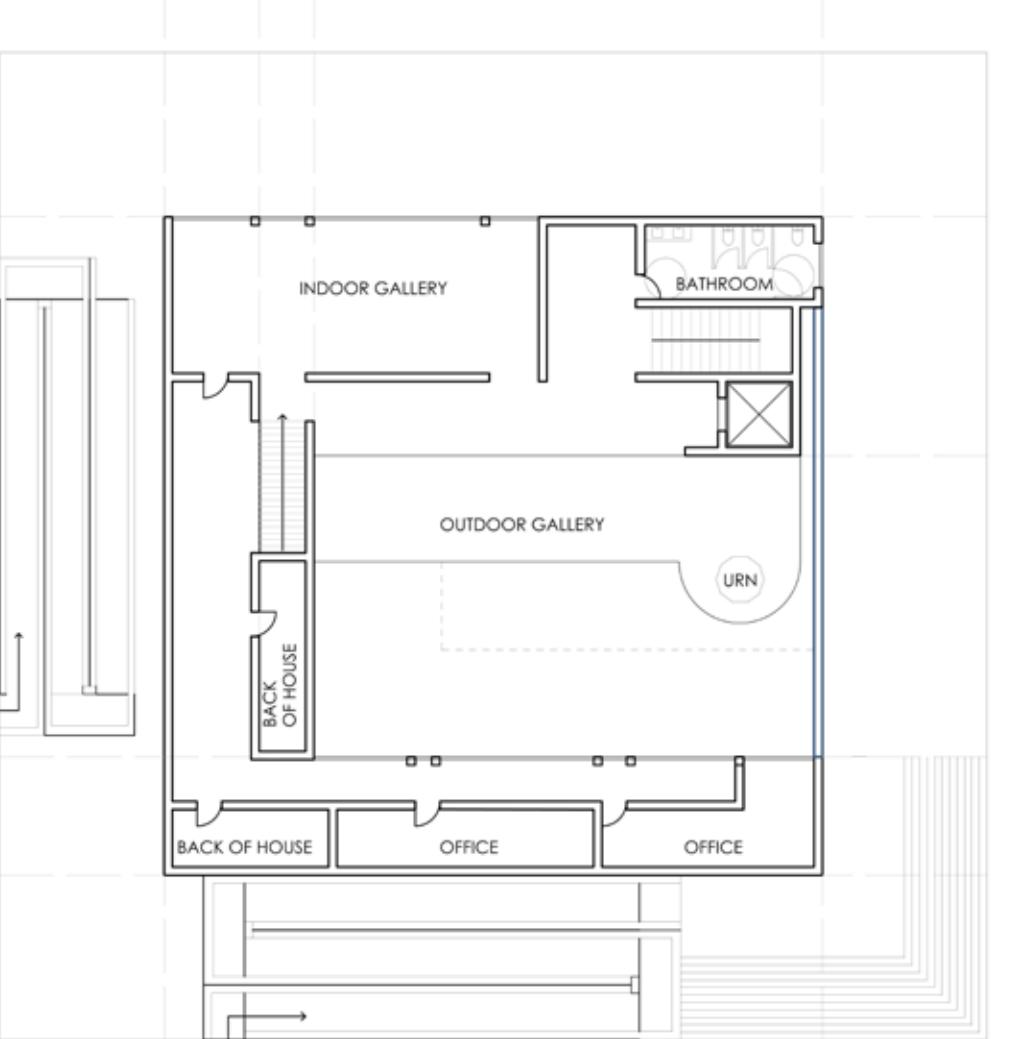




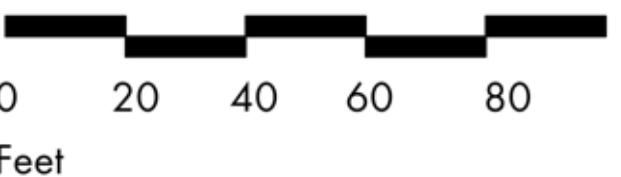
First Floor – Below Ground



Second Floor – On Ground

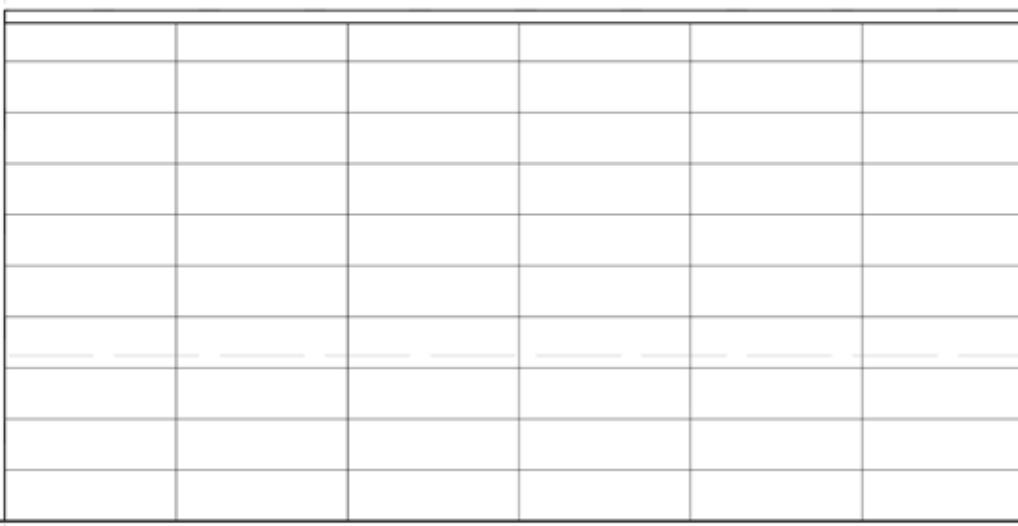


Third Floor – Above Ground

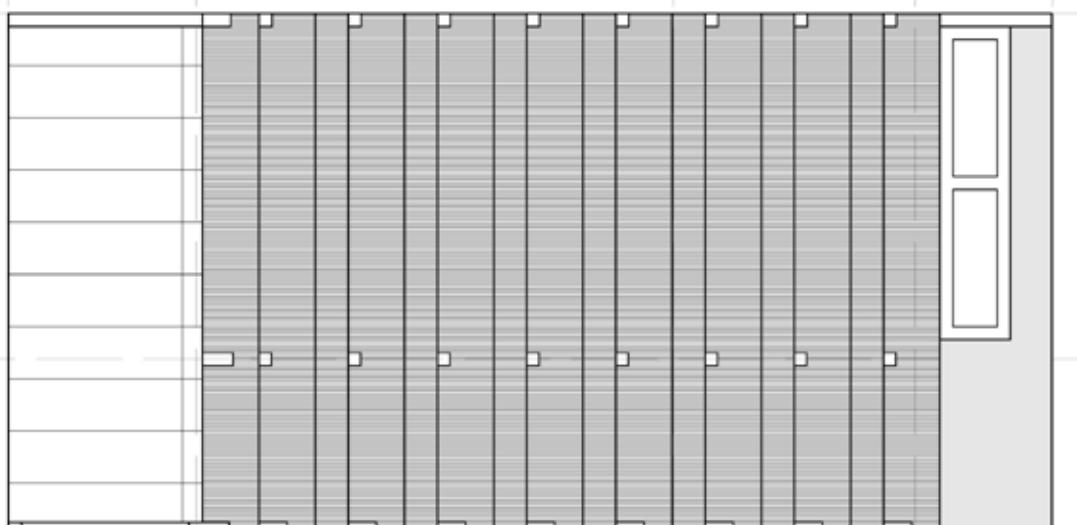




North Elevation



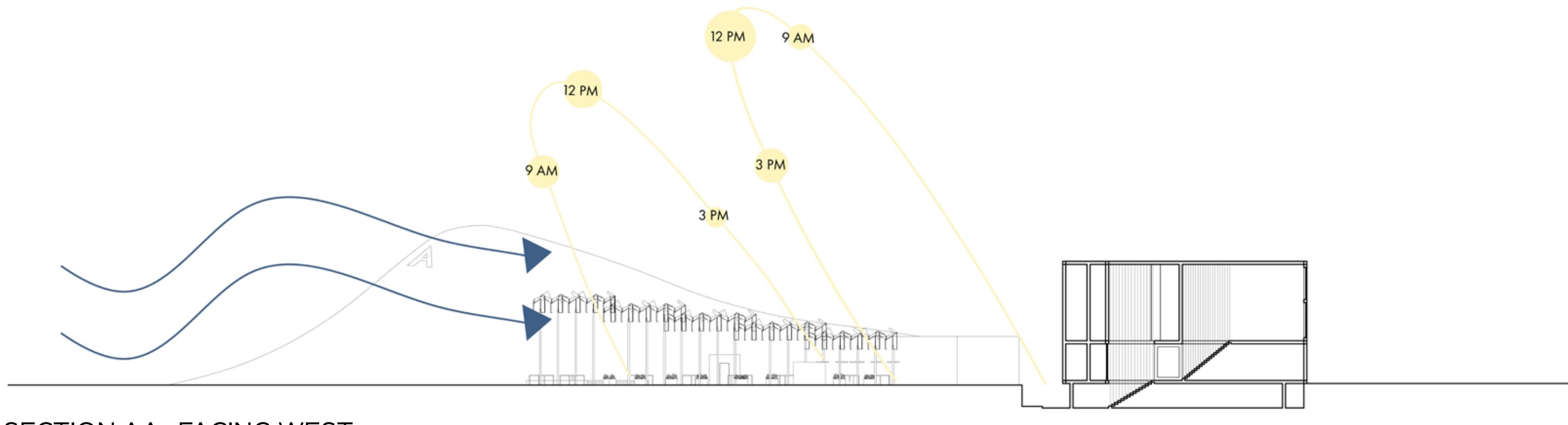
South Elevation



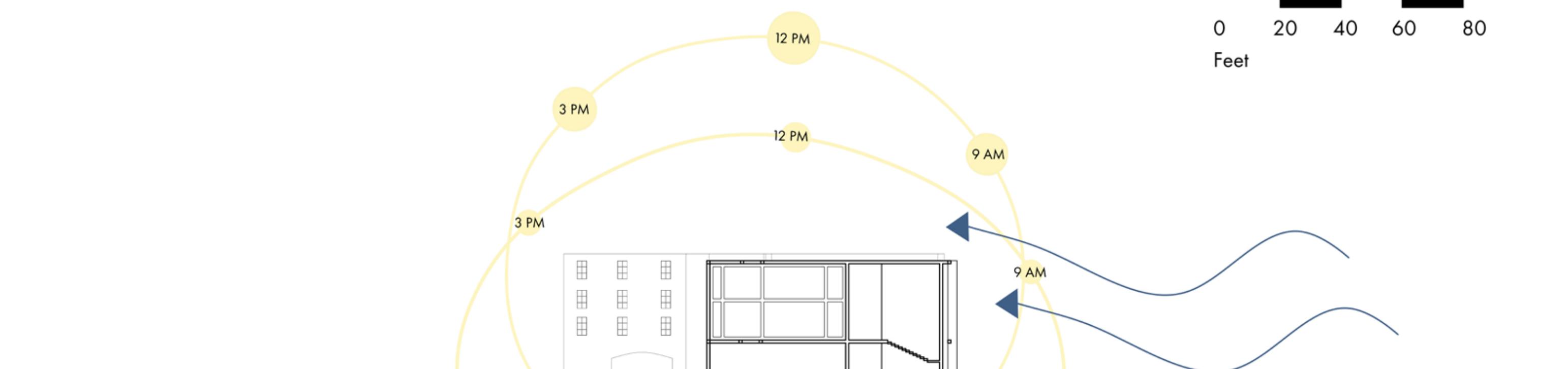
East Elevation



West Elevation



SECTION AA- FACING WEST



SECTION BB- FACING NORTH

SECTION DRAWINGS

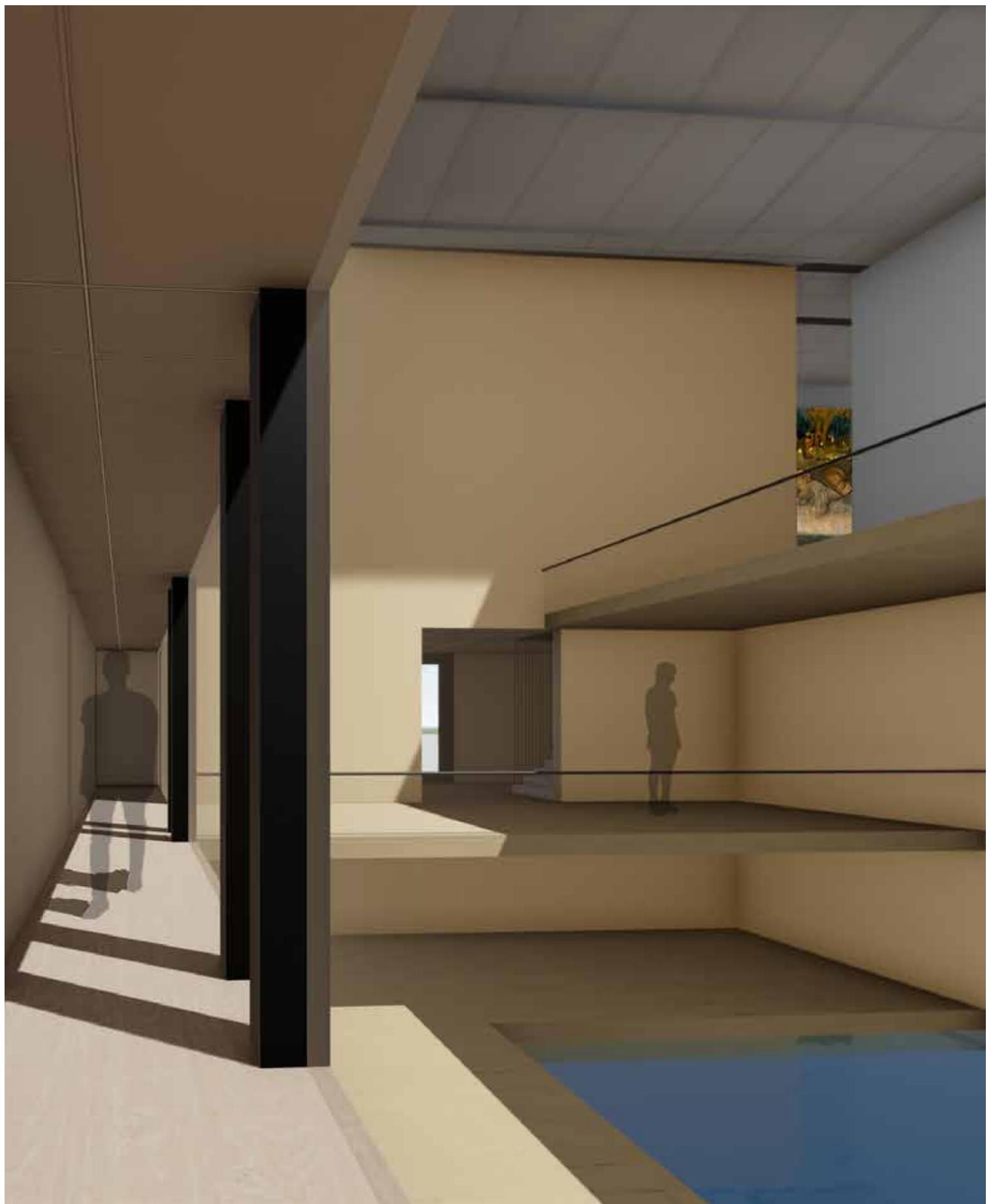
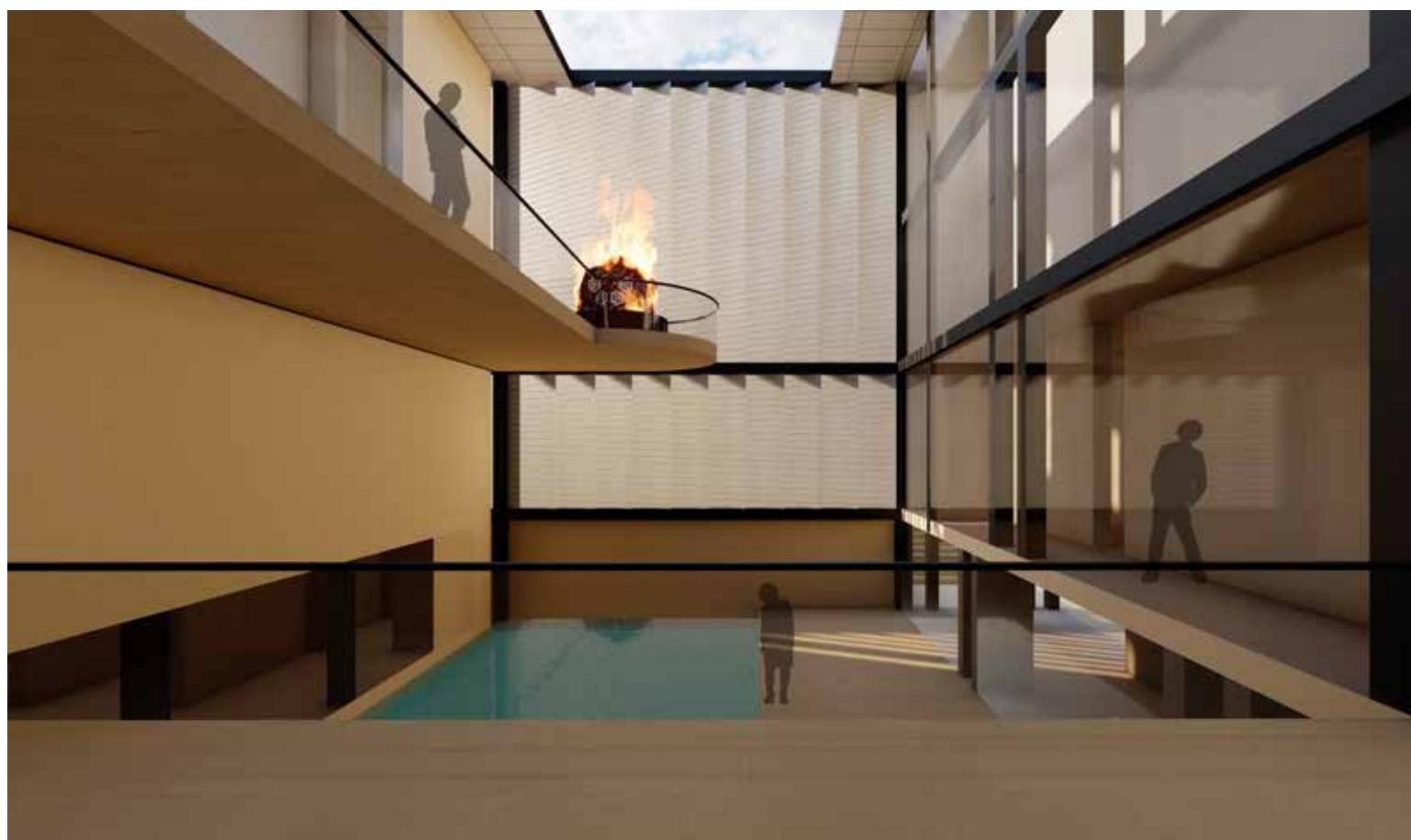


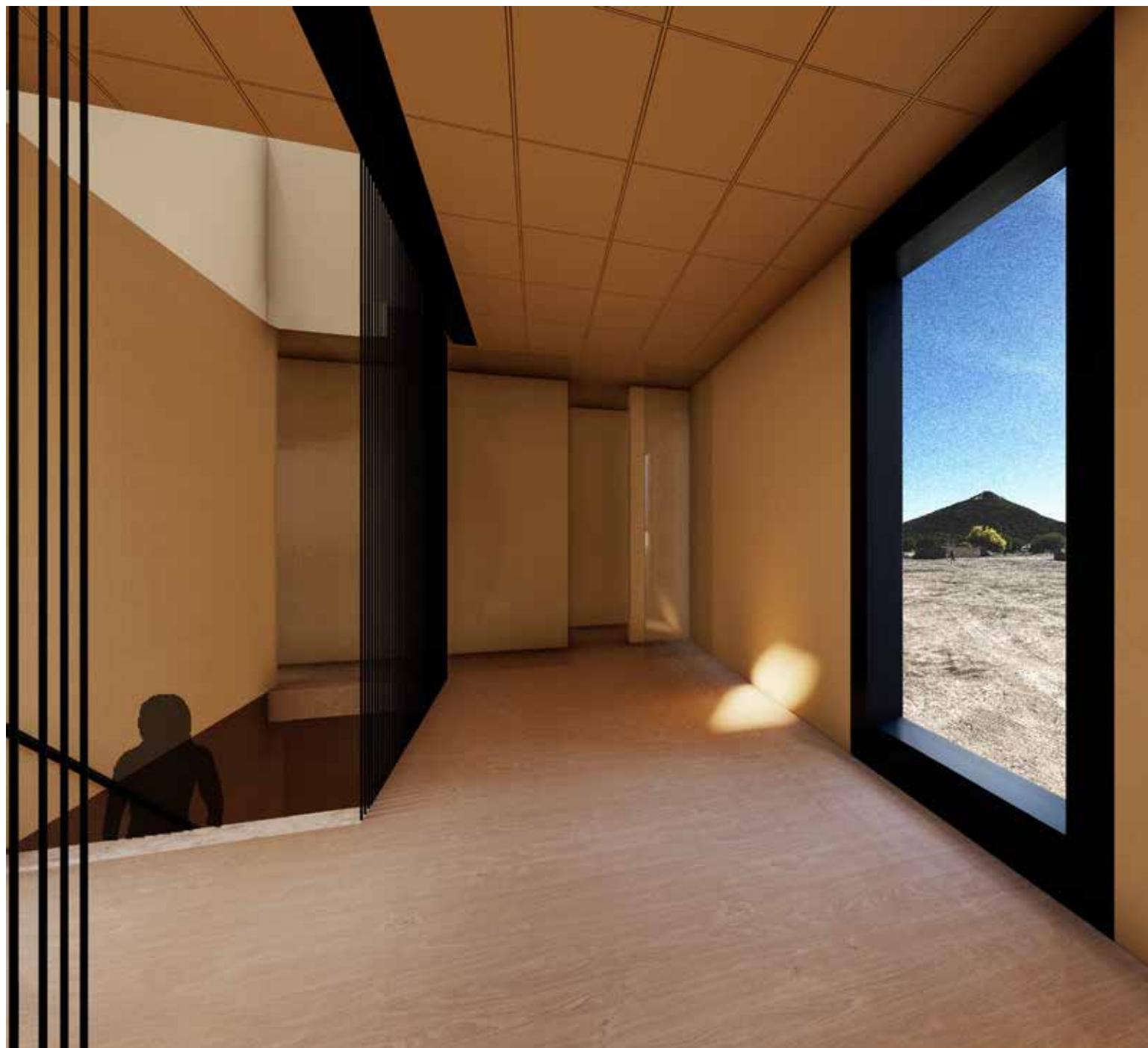
SECTION AA- FACING WEST



SECTION BB- FACING NORTH

RENDERED SECTIONS





ALL SOULS PROCESSION MUSEUM

RENDERS

