



J A C L Y N N H E R B E I N

2 0 1 8 - 2 0 2 4 S E L E C T E D W O R K S



J A C L Y N N H E R B E I N

I am recent Master of Architecture Graduate originally from Northern Virginia; I relocated to Houston Texas in 2016 and began studying architecture in 2018 at Texas Tech University in Lubbock Texas. I earned my Bachelor of Science of Architecture in 2022, graduating Summa Cum Laude, and recently graduated this past spring with a Master of Architecture with a focused certificate of Urban and Community Design.

I have experience working as a student intern at VLK Architects in Houston Texas during my undergraduate years, as well as a Graduate Research Assistant during the summer of 2023. Additionally, I was employed as a teaching assistant at Texas Tech throughout the pursuit of my Master of Architecture.

In my spare time I am a lead competitive gymnastics coach at a local facility, as well as help in coordinating the Texas Tech Club Gymnastics Team. I additionally have interest in photography and enjoy taking portraits and event pictures for friends and family.

I am excited to pursue my architectural career and licensing this Fall and am prepared to relocate from Lubbock as of mid-August.

E d u c a t i o n

2018-2022

Bachelor of Science of Architecture

Summa Cum Laude

Texas Tech University

Huckabee College of Architecture

2022-2024

Master of Architecture

Certificate of Urban and Community Design

Texas Tech University

Huckabee College of Architecture

A w a r d s

2018-2022

Presidential Merit Scholarship

2022-2023

William Early TTAA Scholarship

2022-2023

Willard B. Robinson Undergraduate Scholarship

2023-2024

Nolan E. Barrick Scholarship

2021-2022

Tau Sigma Delta Honor Society

Membership awarded to undergraduate students in the top 20% of their class.

2023-2024

Phi Kappa Phi Honor Society

Membership awarded to graduate students in the top 10% of their class.

2023-2024

Student Design Leadership Award

Prestigious award given by the Huckabee College of Architecture Design Leadership Alliance acknowledging outstanding design and leadership skills.

E x p e r i e n c e

2018-2021

Student Intern

VLK Architects, Houston Texas

Worked full time assisting project teams with designs and accompanying technical drawings of primarily educational architecture, using Autodesk Revit and the Adobe Creative Suite.

2022-2024

Teaching Assistant

Texas Tech College of Architecture

Assisted in the teaching of a class of freshman students in ARCH 1301 and 1302 design studio for both the fall and spring semesters of 2022-2024.

2023

Graduate Research Assistant

Texas Tech College of Architecture

Assisted in the production of models and drawings of four major Texas Cities, to be used in a simulation space to produce data for a publication.

Assisted in the production of a digital model and corresponding drawings for a home design.

L e a d e r s h i p

2018-2023

President, Vice President, Treasurer, Member

Texas Tech Club Gymnastics Team

Led team to an undefeated 2022 competitive season.

Organized and directed a charity competition which generated over \$1500 in donations for the local Special Olympics Chapter.

2021-2022

Social Media Manager

Knights of Architecture

Service organization that provides programs and events to enrich the education of HCOA students.

S k i l l s

Revit ●●●●●●●●○

Illustrator ●●●●●●●●●

Photoshop ●●●●●●●●○

Indesign ●●●●●●●●●

Rhino ●●●●●●●○○

Grasshopper ●●●●●●○○○

Sketch-up ●●●●○○○○○

Enscape ●●●●●●●●●

V-Ray ●●●○○○○○○

Office ●●●●●●●●○

Bluebeam ●●●●●●○○○

P u b l i c a t i o n

2024

*“The City that Shelters Dreams
Feminism and the Urban Environment”*

Crop x Yield (226 - 228)

C o n t a c t

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E: jrherbein@gmail.com

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www.instagram.com/jaclynn.arch



PROJECTS

01 JEMEZ SPRINGS BATHHOUSE

02 ARCHITECTURAL DETAILING

03 HYDROPONIC PAVILION

04 THERAPEUTIC RIDING CENTER

05 MULTI-GENERATIONAL LIVING

06 36 VIEWS OF LUBBOCK TEXAS

07 3D FABRICATION

08 MESCALERO CULTURAL CENTER



Urban Aesthetics through Walking Body, Dream, and Spatial Justice – Mixed Media Collage, the Feminine Perception

01

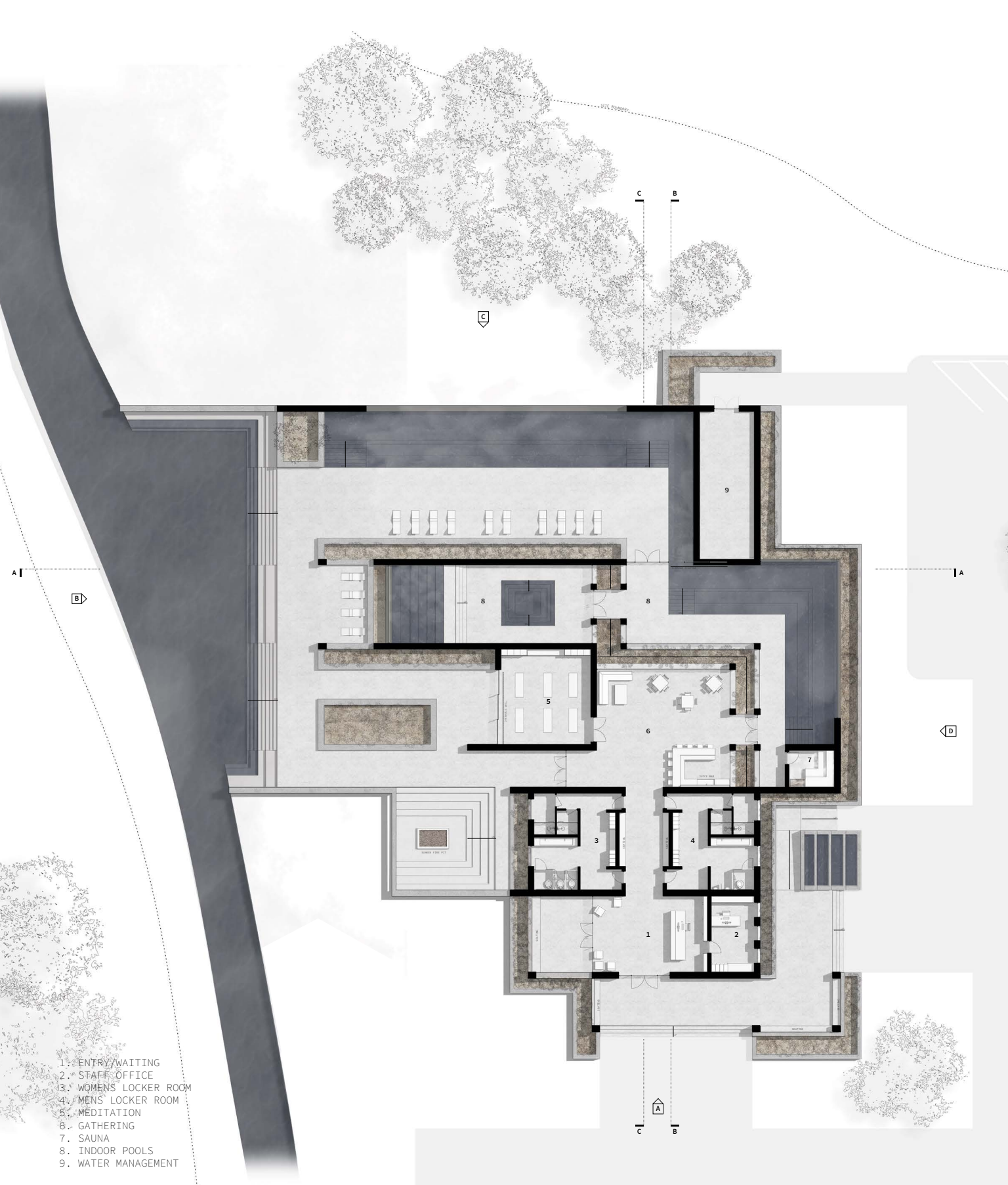
J E M E Z S P R I N G S B A T H H O U S E

+ Jemez Springs | New Mexico + Graduate Year Two | Fall

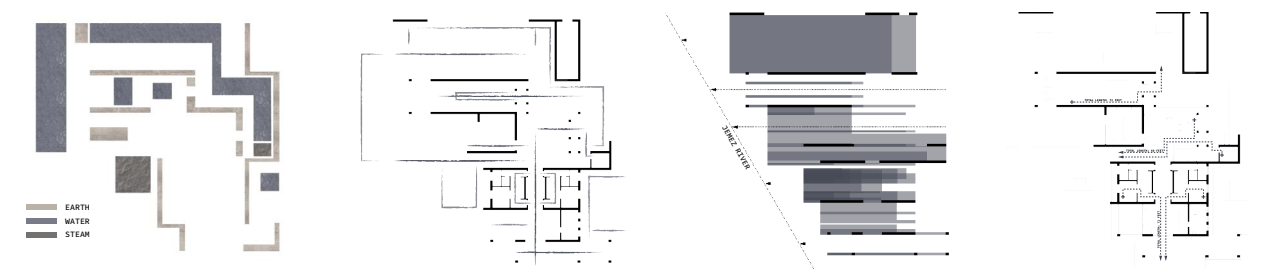
Phenomenology of Water and Place

This studio explores the engagement and implication of water, earth, and steam. With the site placement downstream from the Valles Caldera, naturally occurring hot springs exist on site. The Bathhouse Typology has historically served as a place of meeting and health. Through research of precedent via a week long trip to the site, the significance of water's physical, symbolic, and psychological characteristics will be incorporated into the design.





- 1. ENTRY/WAITING
- 2. STAFF OFFICE
- 3. WOMENS LOCKER ROOM
- 4. MENS LOCKER ROOM
- 5. MEDITATION
- 6. GATHERING
- 7. SAUNA
- 8. INDOOR POOLS
- 9. WATER MANAGEMENT



Elemental, Circulation, Horizontality, and Egress Diagrams.



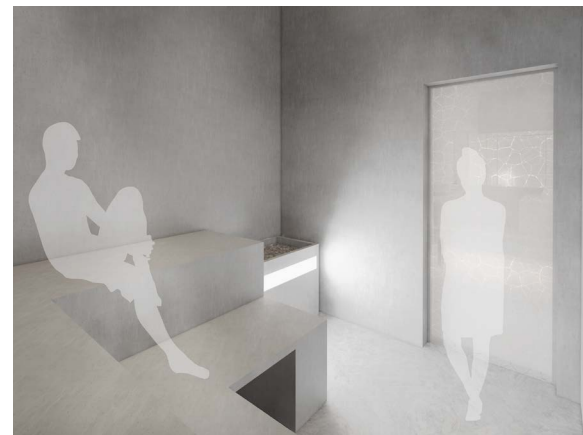
A | Section Perspective



B | Section Perspective



C | Section Perspective

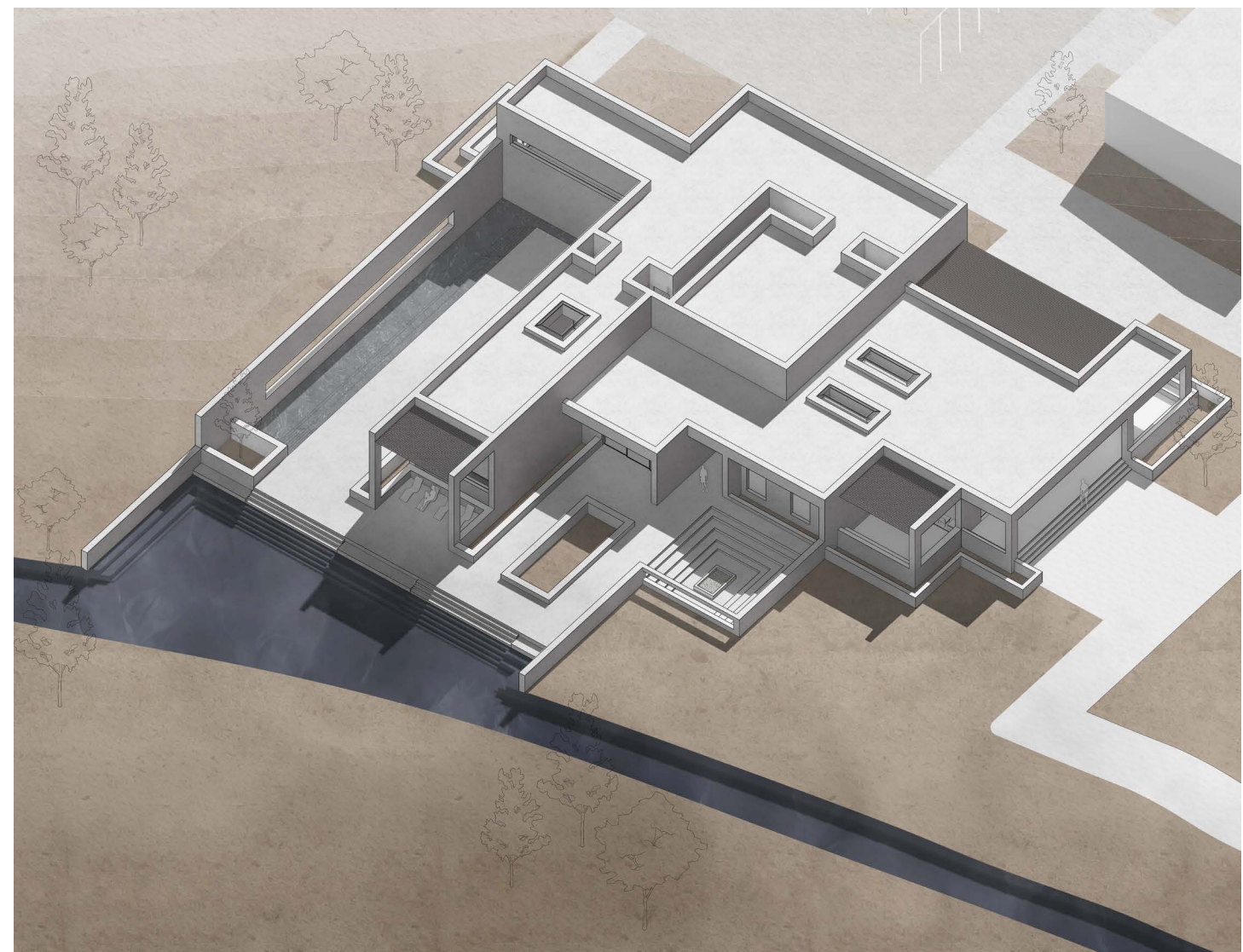


PROPOSED

- 1. JEMEZ SPRINGS BATHHOUSE
- 2. BREWHOUSE
- 3. OPEN PARK SPACE
- 4. GAZEBO
- 5. WEEKEND VENDOR SPACE
- 6. BODEGA
- 7. LIBRARY
- 8. COMMUNITY GARDENS
- 9. LENDING LIBRARY
- 10. PARKING

EXISTING

- A. BODHI MANDA ZEN CENTER
- B. LOCAL HONEY STAND
- C. PARKING
- D. STAGE STOP CAFE
- E. LOS OJOS RESTAURANT
- F. JEMEZ MOUNTAIN INN







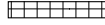

PROJECT SUMMARY

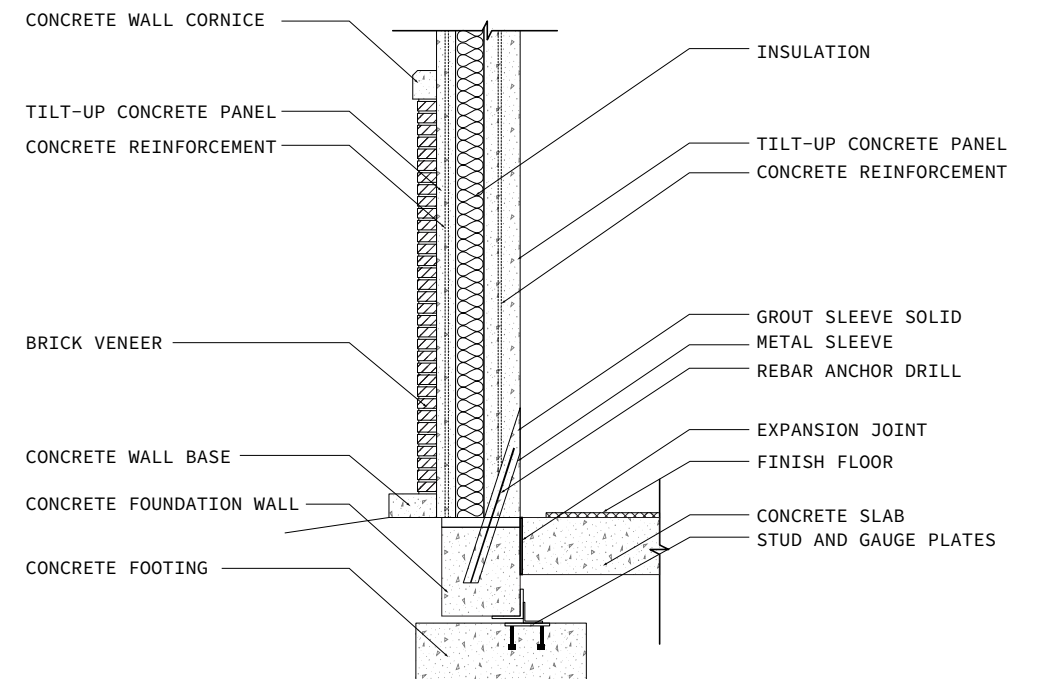
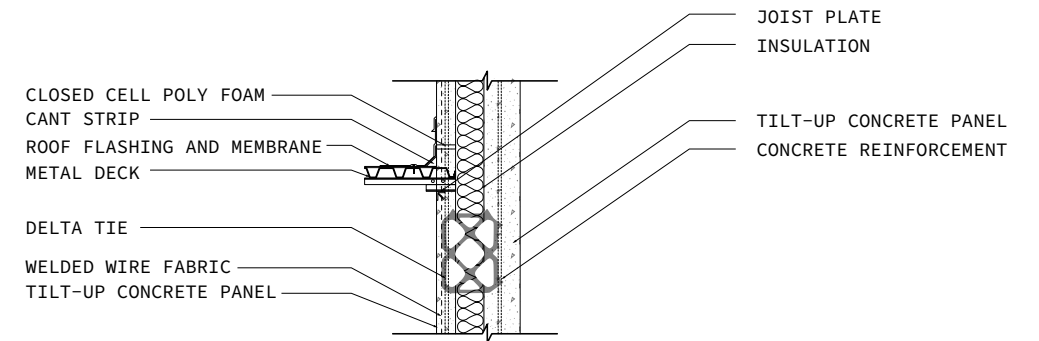
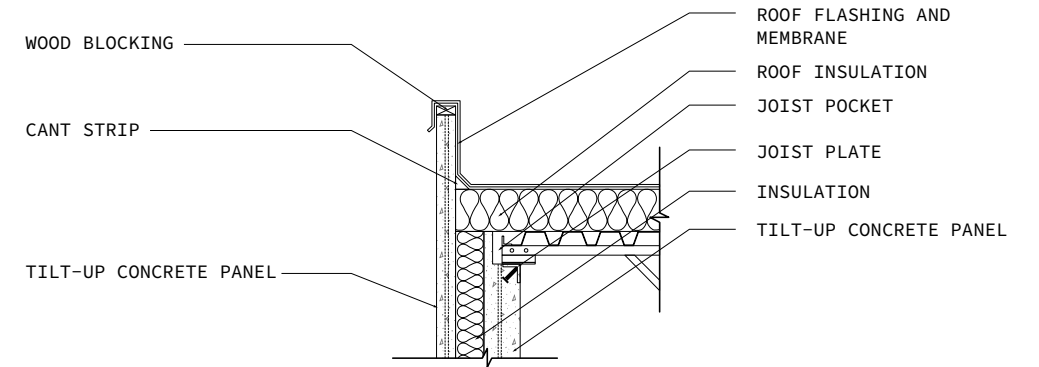
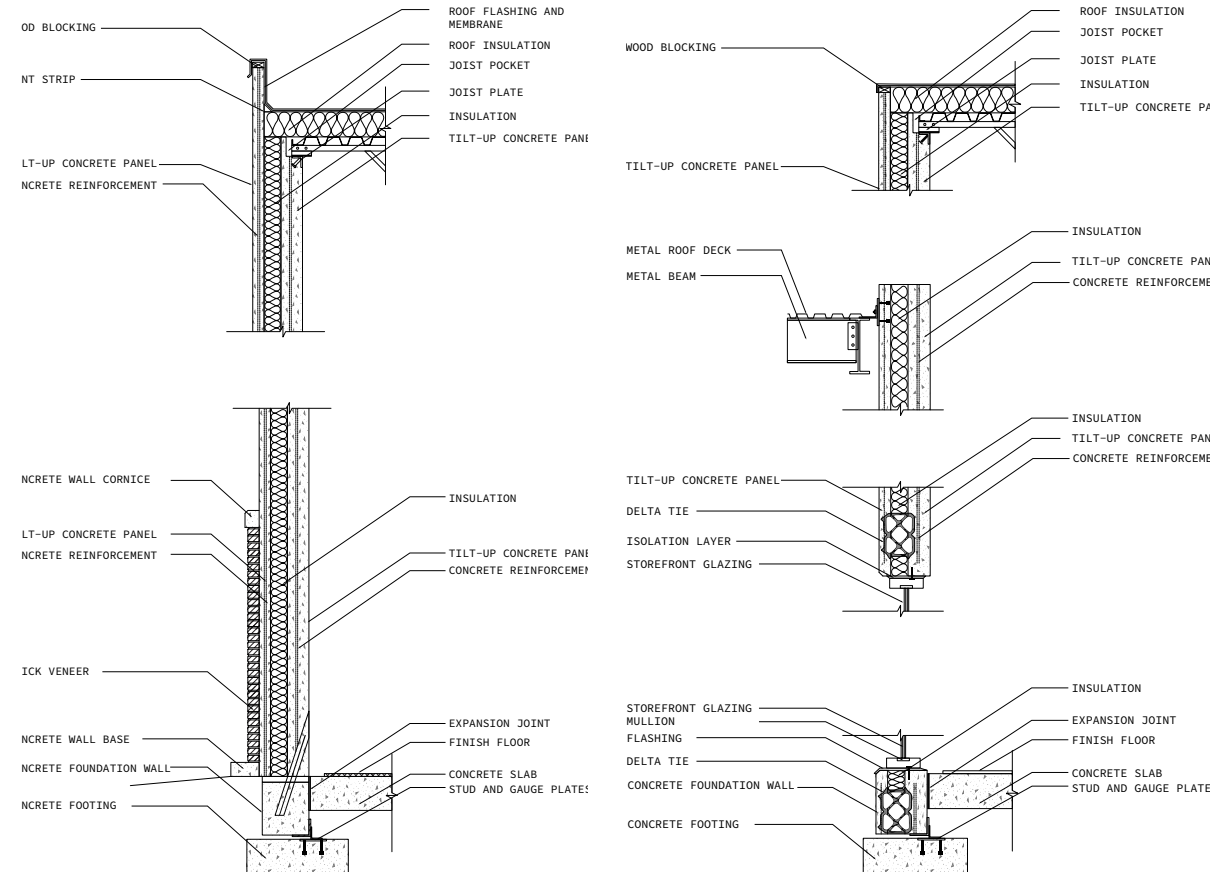
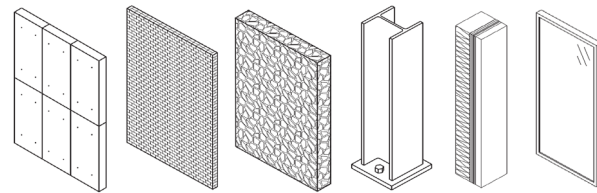
The Village of Jemez Springs has undergone a redesign aimed at enhancing its sense of community and accessibility. Programming has been relocated off site, to improve circulation and composition. Courtyard spaces, inspired by traditional Pueblo civilizations, play a significant role in the design, fostering community engagement.

Parking spaces have been reoriented to prioritize pedestrian accessibility, emphasizing the importance of the courtyard. The reorientation of programming also highlights the presence of the Jemez River, providing sensory experiences, while minimizing road noise. The bathhouse, strategically placed on a diagonal axis to an existing historical restaurant, serves as a focal point for socialization, reinstating its role in the community.

EXECUTION OF MATERIALS

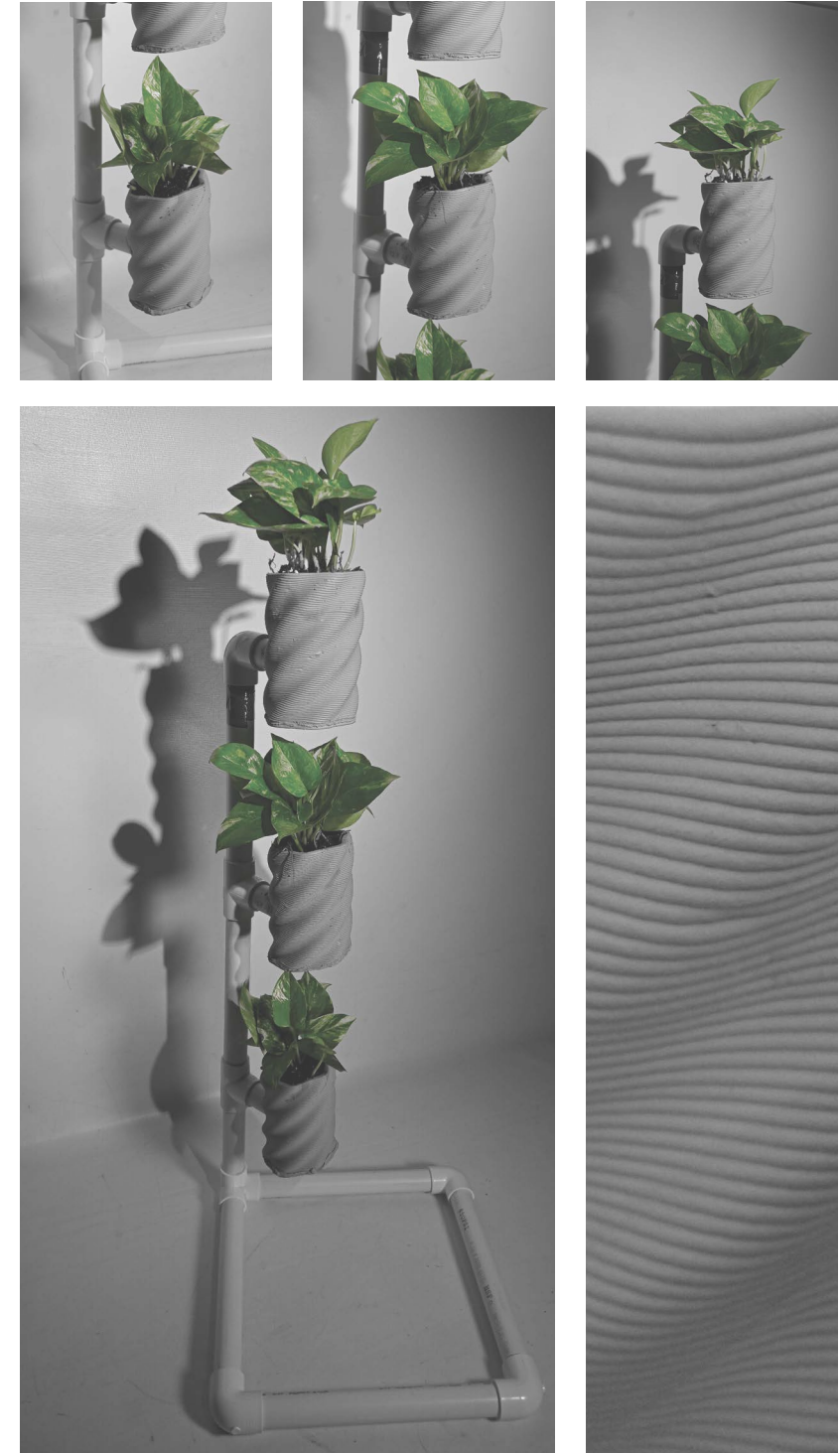
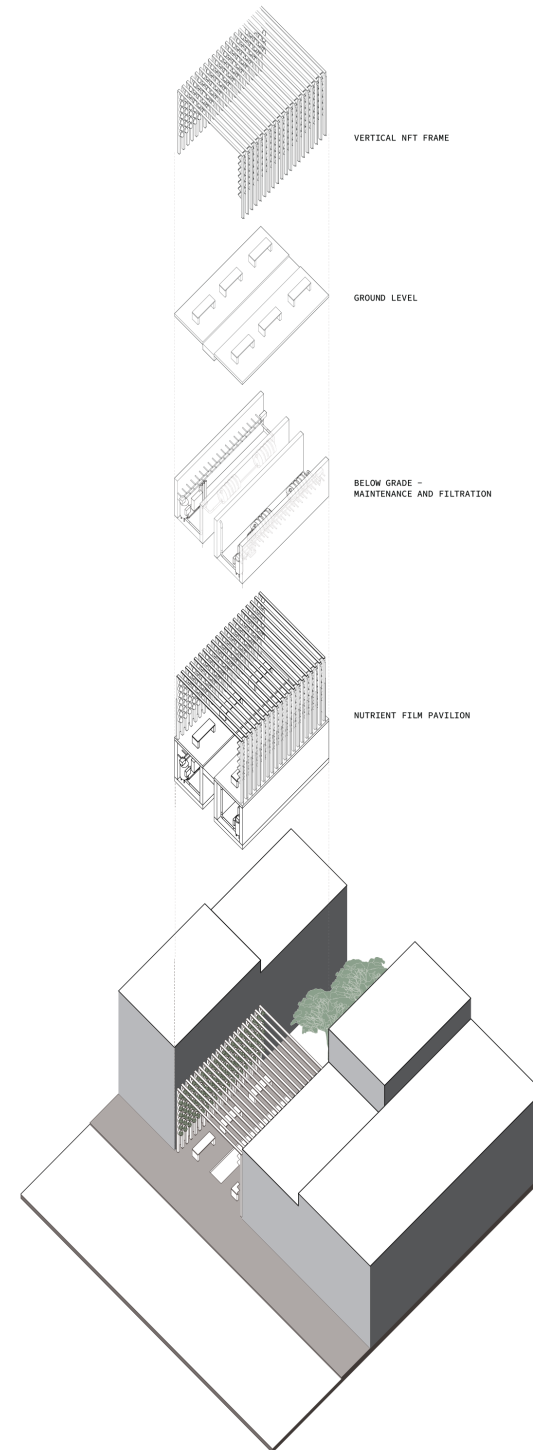
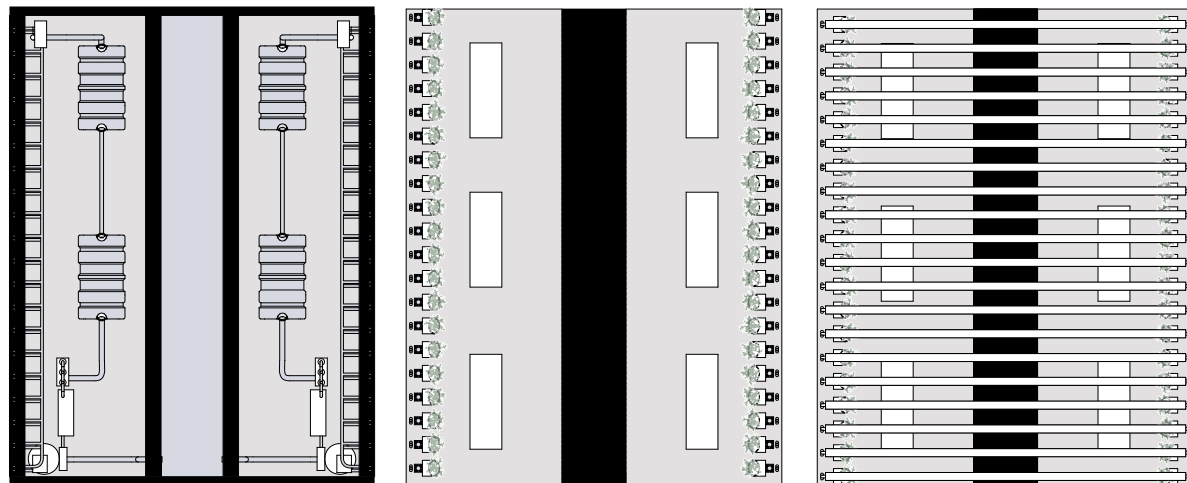
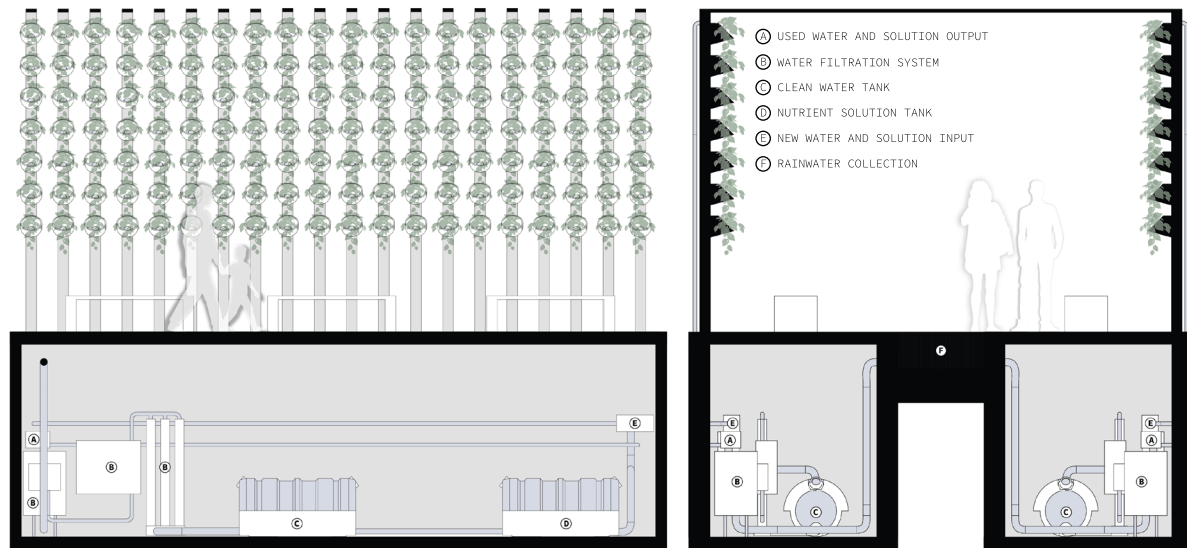
An exploration into the execution of materials in Architectural Design through the utilization of proper detailing. The exploration will focus on identifying key components of the building envelope, how to design with specific materials and methods, and how to recognize these components within the built environment.

-  DIVISION 03 - CONCRETE
-  DIVISION 04 - MASONRY - BRICK
-  DIVISION 04 - MASONRY - STONE
-  DIVISION 05 - METALS - METAL COLUMN
-  DIVISION 07 - THERMAL & MOISTURE PROTECTION
-  DIVISION 08 - OPENINGS - GLAZING



Hydroponics | NFT Pavilion

This proposal integrates urban farming technology, specifically the Nutrient Film Technique, into alleyways, enhancing the city environment in various ways. The vertical NFT system serves as a pavilion, incorporating phytoremediation to counter and remove toxins from the air and water. This bioremediation approach creates a biophilic environment where users can interact with plants, providing opportunities for meditation, shade, seating, and social gatherings.



04

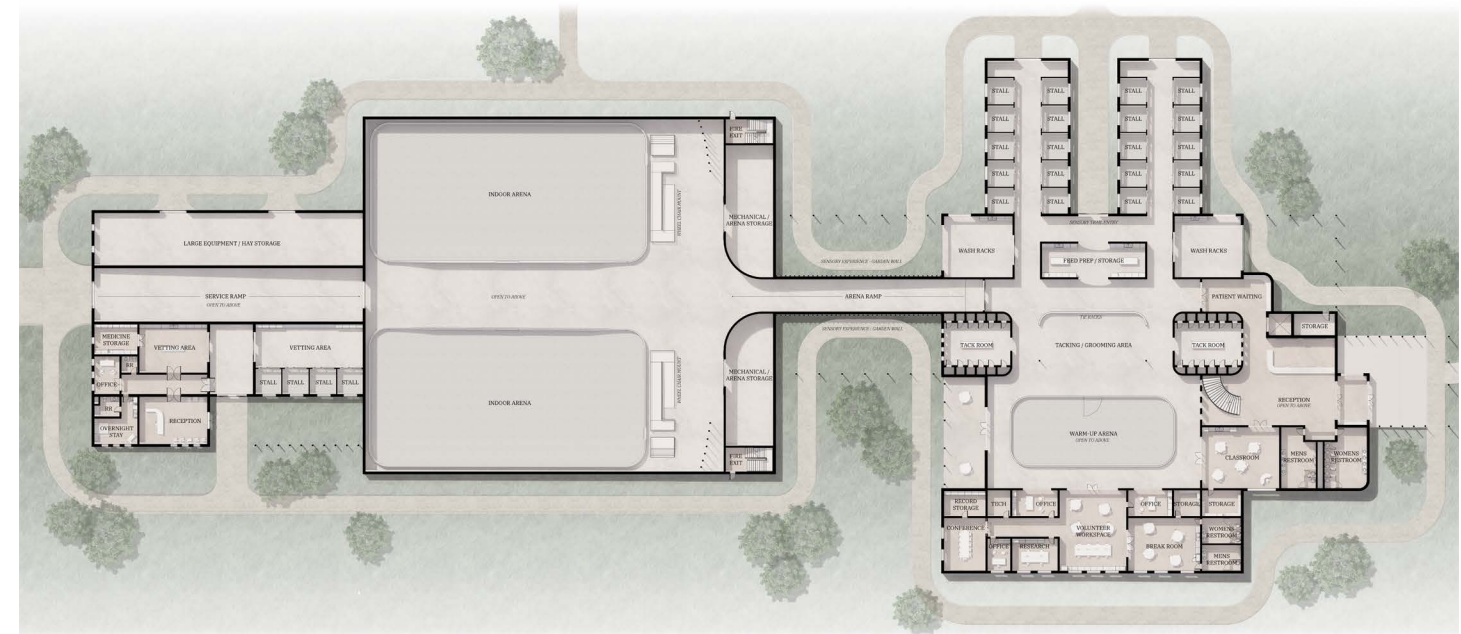
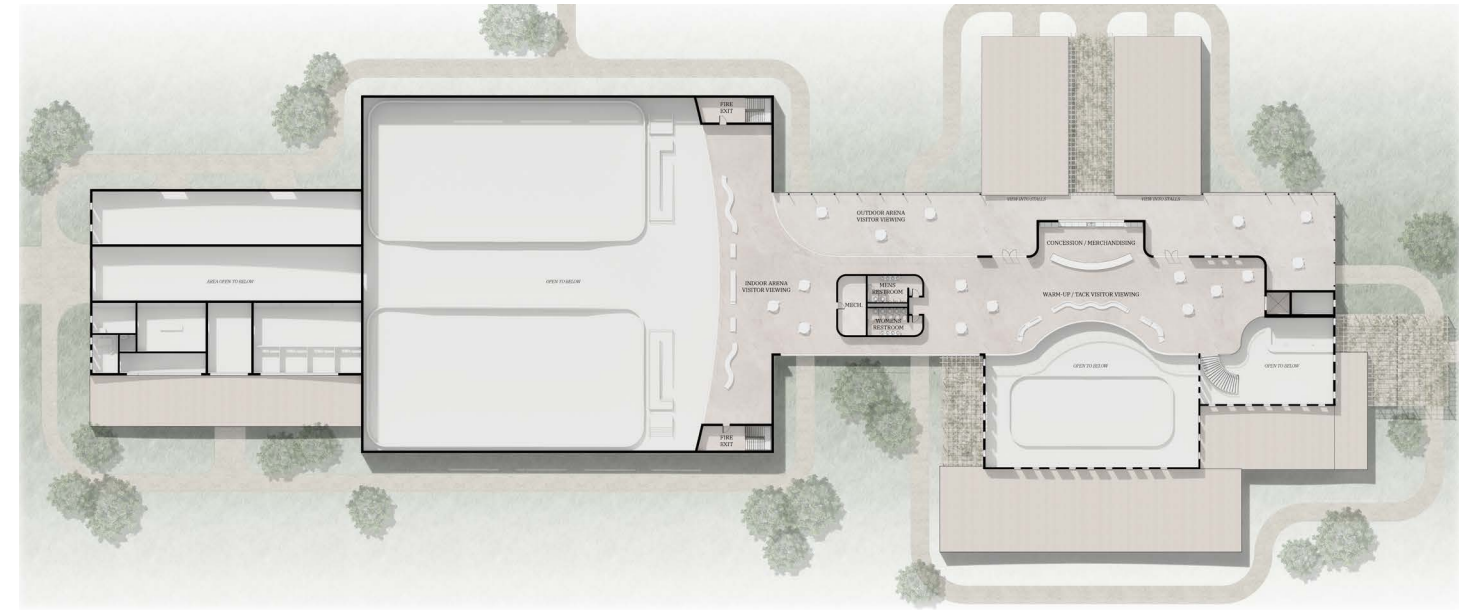
THERAPEUTIC RIDING CENTER

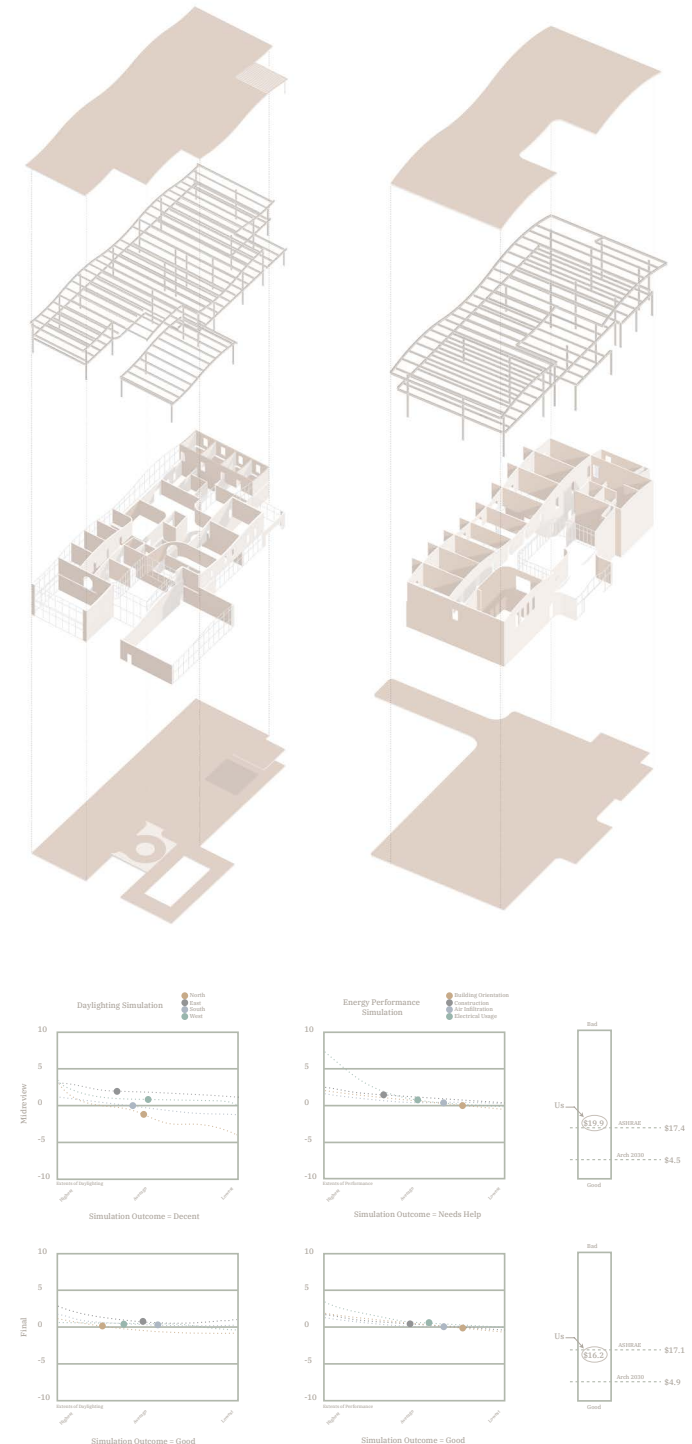
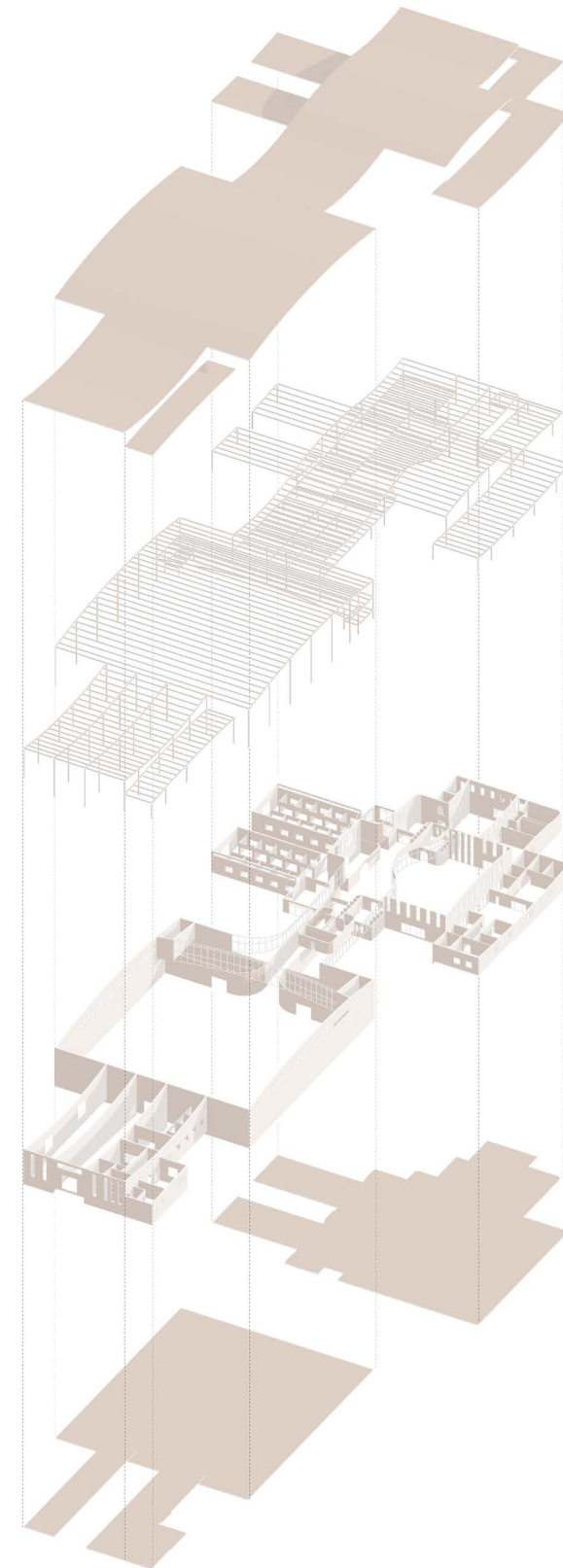
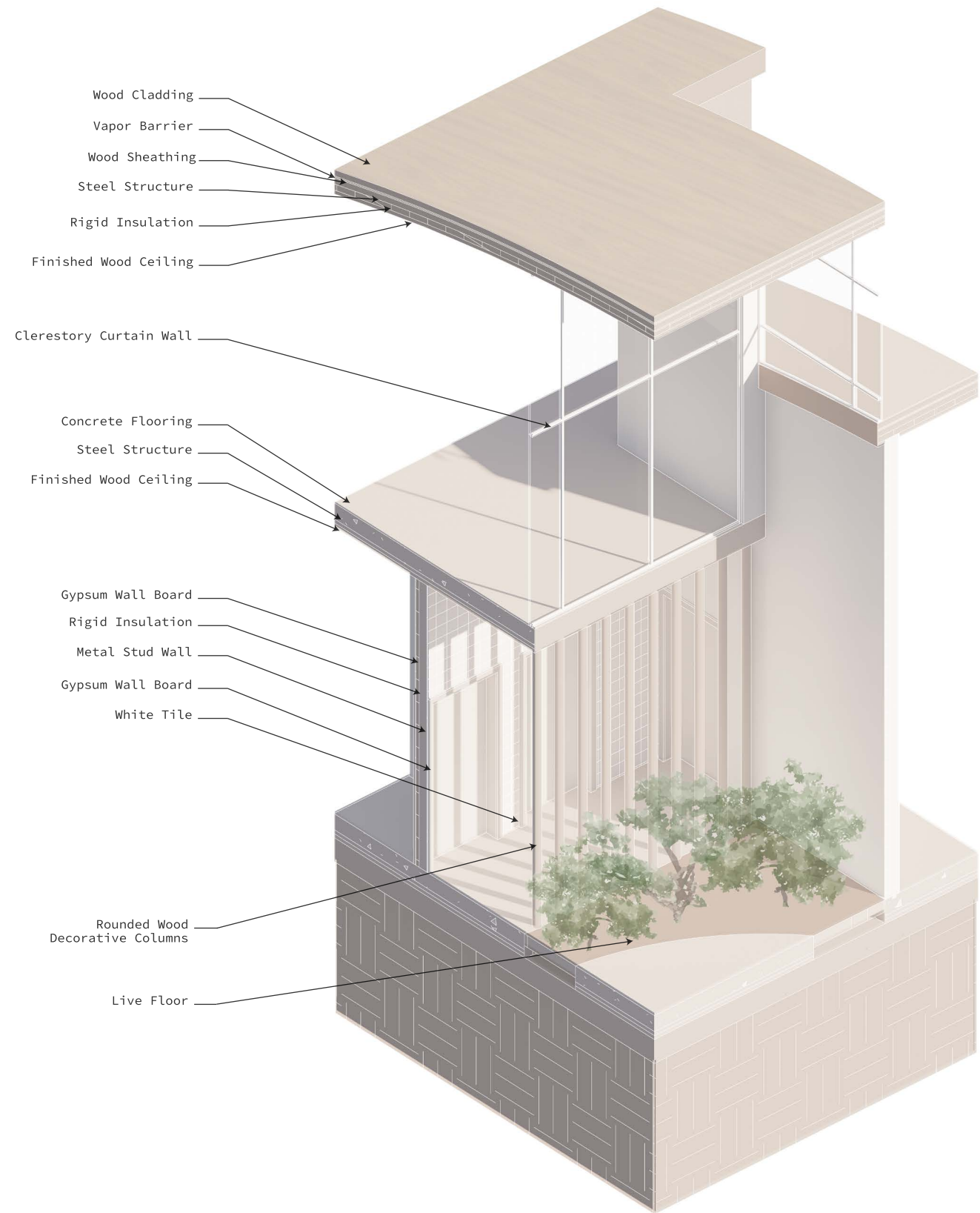
+ Lubbock | Texas + Graduate Year One | Spring

Scaled Rehabilitative Architecture

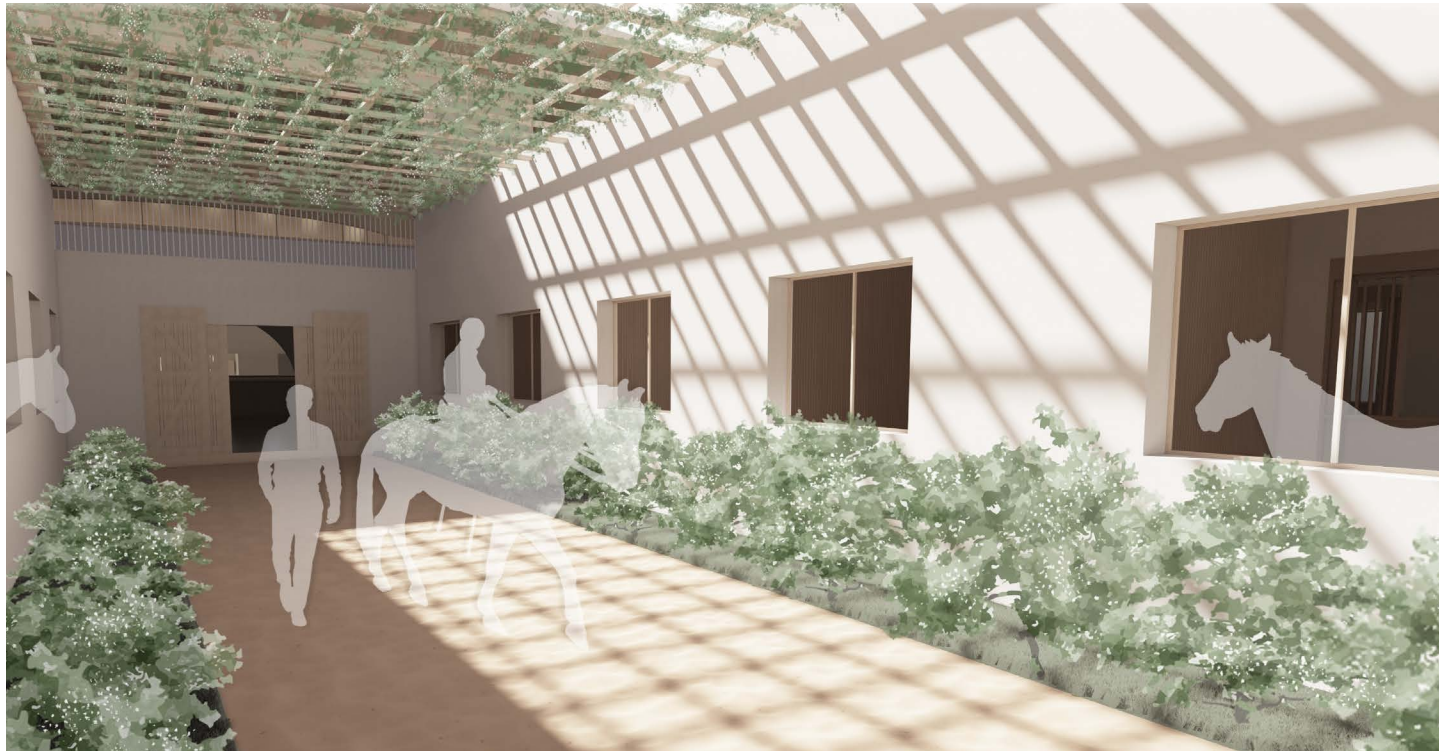
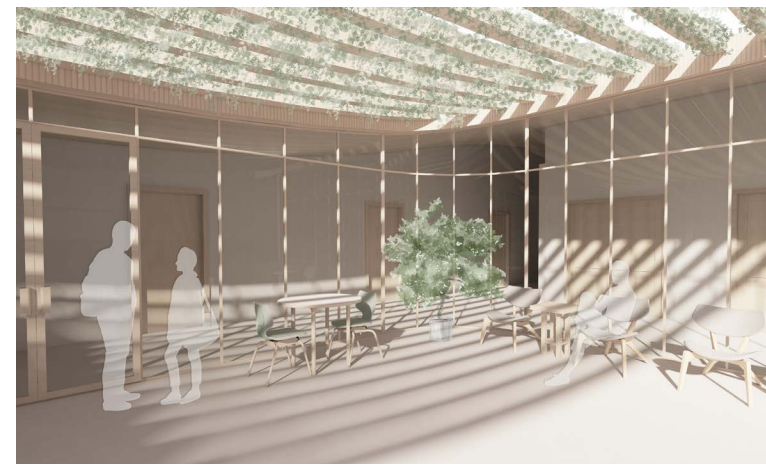
This studio delves into therapeutic architecture, exploring various applications and methodologies. It will adopt an integrative approach to designing a comprehensive project across multiple scales. Through observing sessions at the Texas Tech Therapeutic Riding center, extensive site analysis, documentation, and collaboration with consulting disciplines, the project aims to develop architectural concepts, design methodologies, and materialization strategies for an Adult and Pediatric Rehabilitative Center, fostering innovative solutions.

In collaboration with Courtney Andrews





Building performance analysis of the complex, accounting for ASHRAE standards, daylighting simulations and energy performance, collected via Revit Insight analysis.



PROJECT SUMMARY

The goal of the project is to not only function as an equestrian center but also to attract visitors to an underexplored area of Lubbock, Texas. The design features curved interior passageways and a gradually sloping roof, contrasting with the orthogonal exterior structures, to create a softer transition through the center. User accessibility, including provisions for children, adults, and the elderly, was prioritized with features such as wheelchair lifts, ramps, and wide corridors.

To maintain a non-clinical atmosphere, warm-toned materials and fluid forms were incorporated. Extensive trails, including a sensory trail, cater to both pedestrians and equines. The facility's layout allows viewers to observe sessions from the second level while maintaining privacy for attendees and trainers. This design fosters a gradual acquaintance with therapy sessions by allowing attendees to visually experience sessions before fully participating.

05

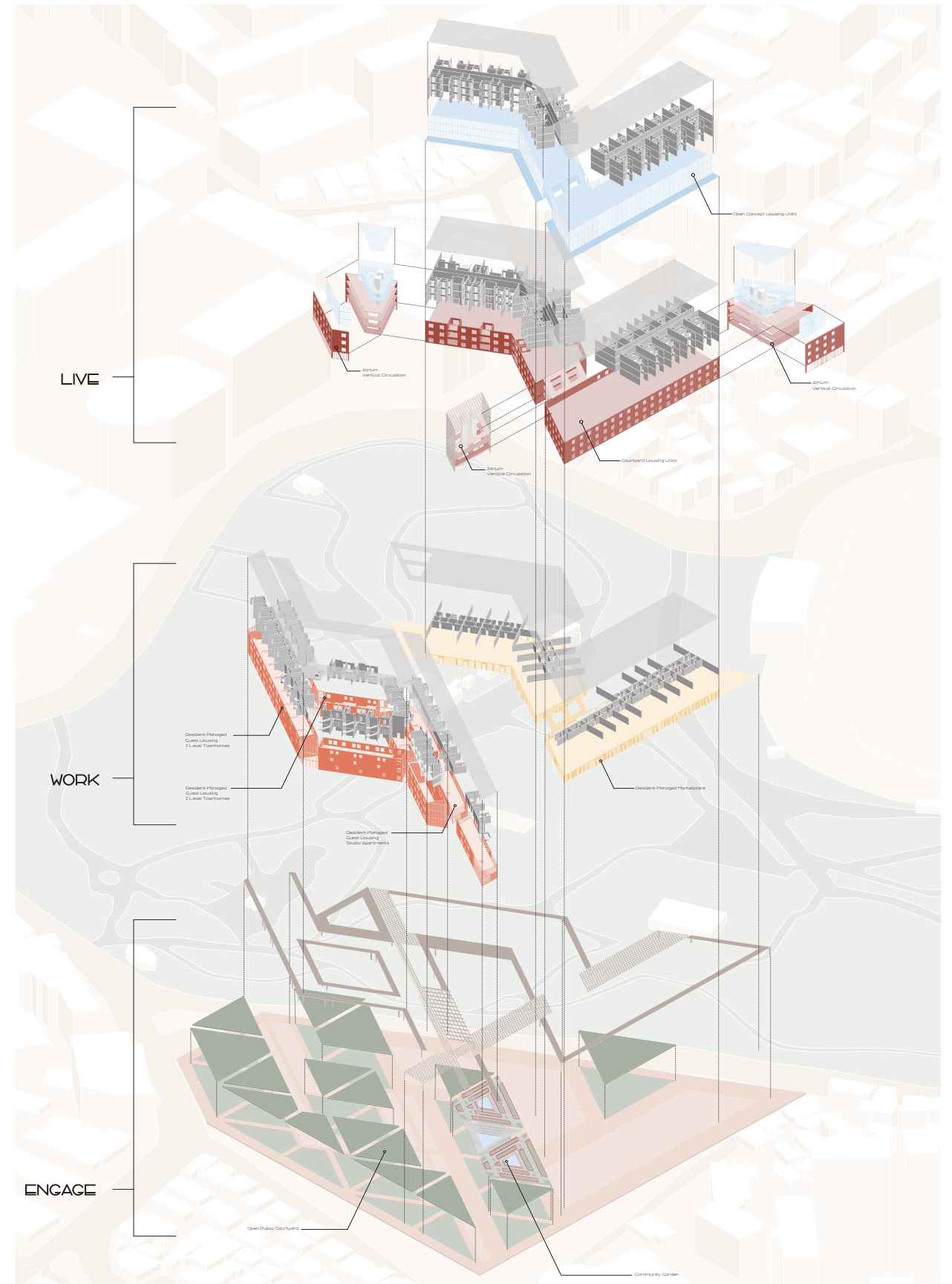
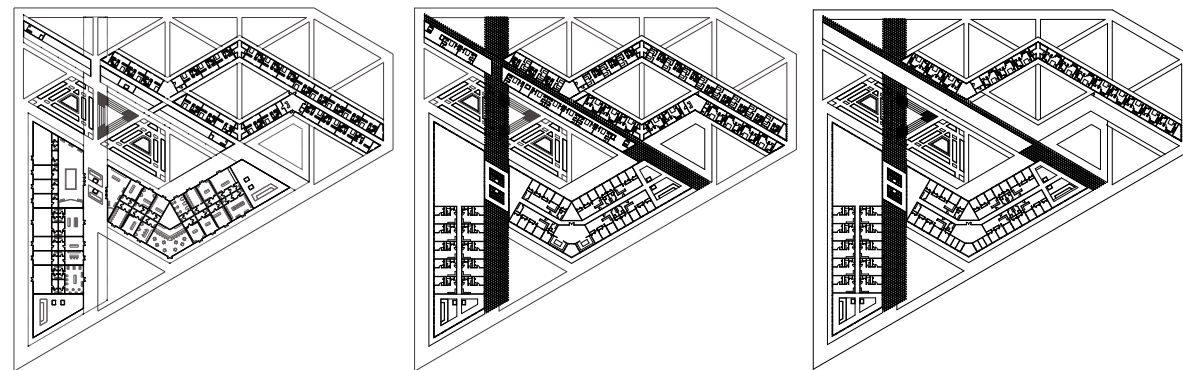
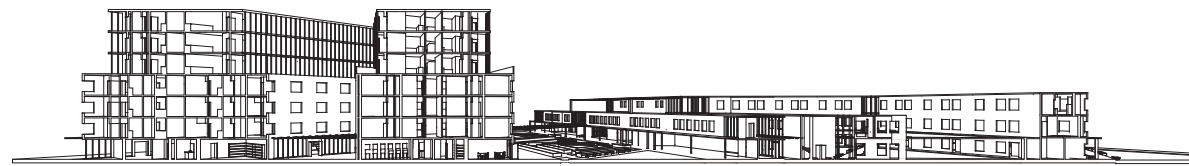
MULTI-GENERATIONAL LIVING

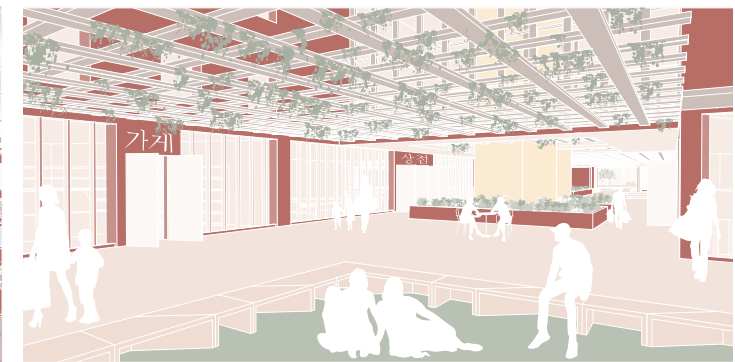
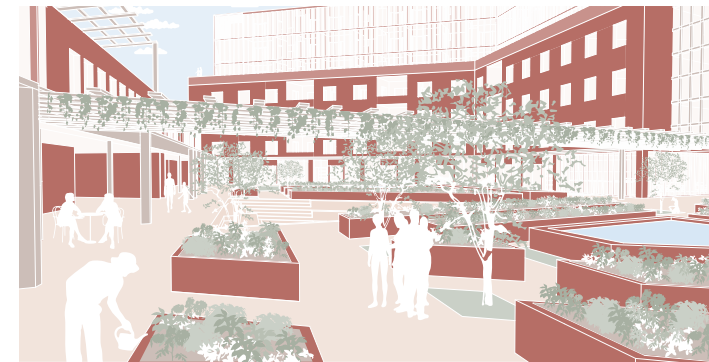
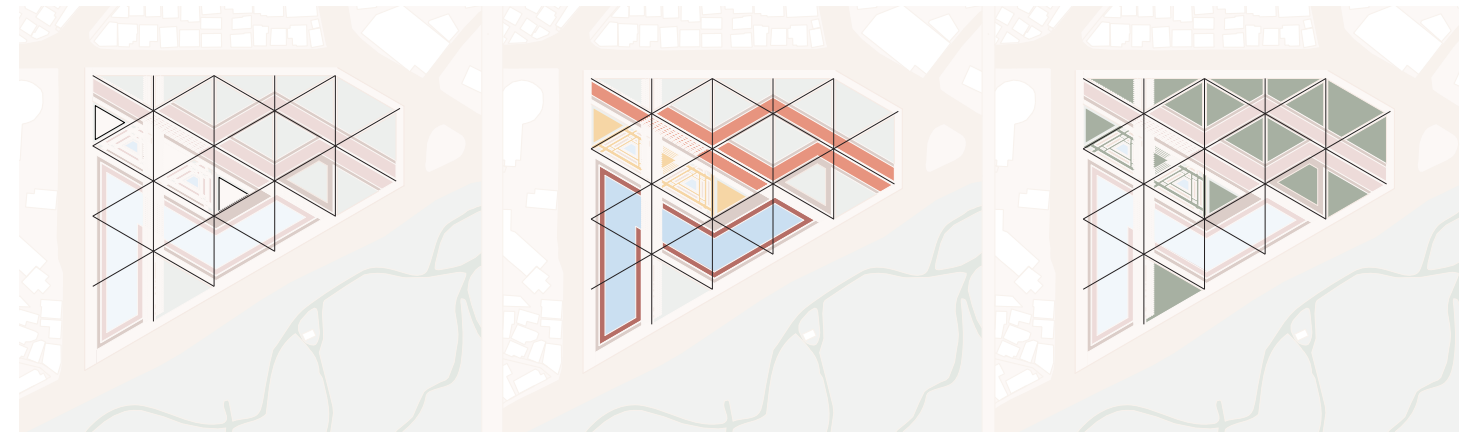
+ Seoul | South Korea + Undergraduate Year Three | Spring

Aging in place

Poverty and depression rates in the elderly population of Seoul South Korea have been steadily increasing for years. To combat this fact, this studio project focuses on the creation of a housing complex which allows residents to age and work in place.

In collaboration with Mari Sparacino





PROJECT SUMMARY

This program enables residents to both live and work on site, utilizing ground floor storefronts for resident use. Additionally, a traditional guest housing facility at the rear of the site serves family members and tourists, providing employment opportunities for residents and boosting tourism.

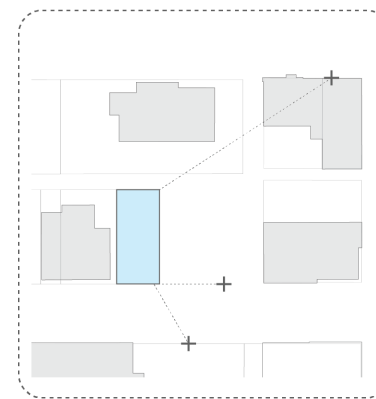
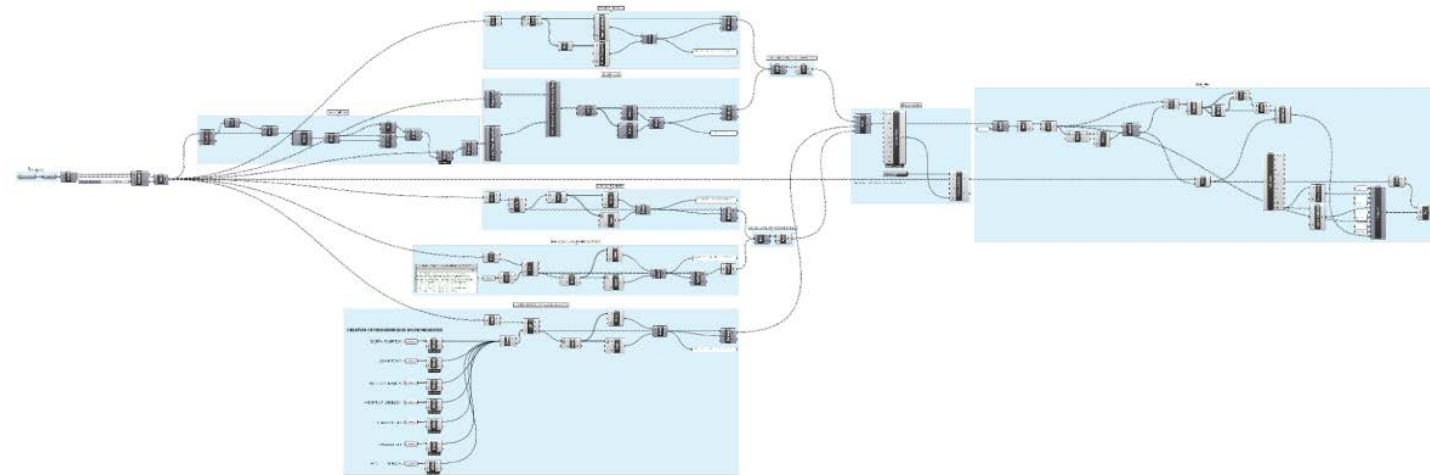
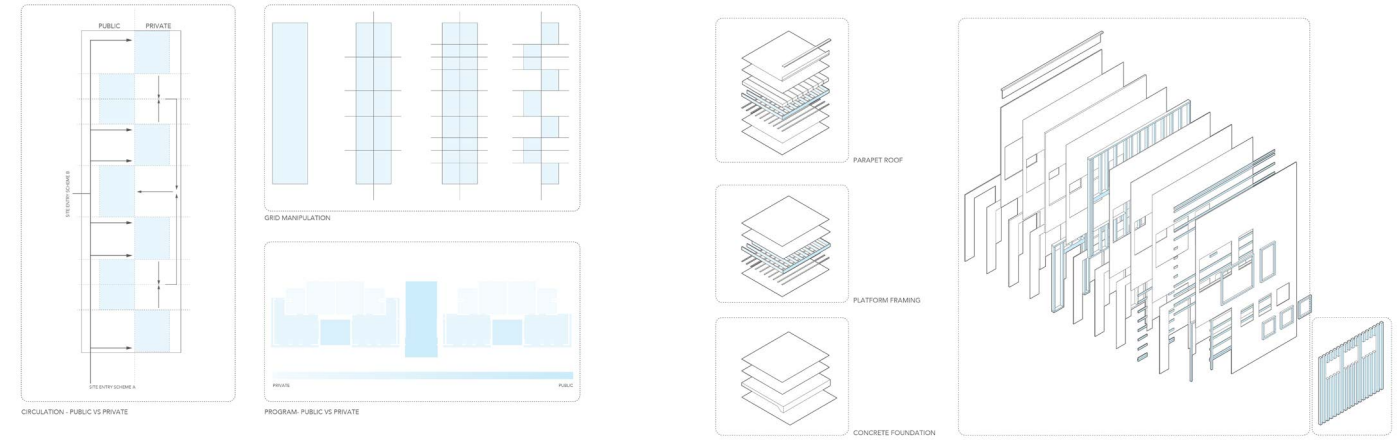
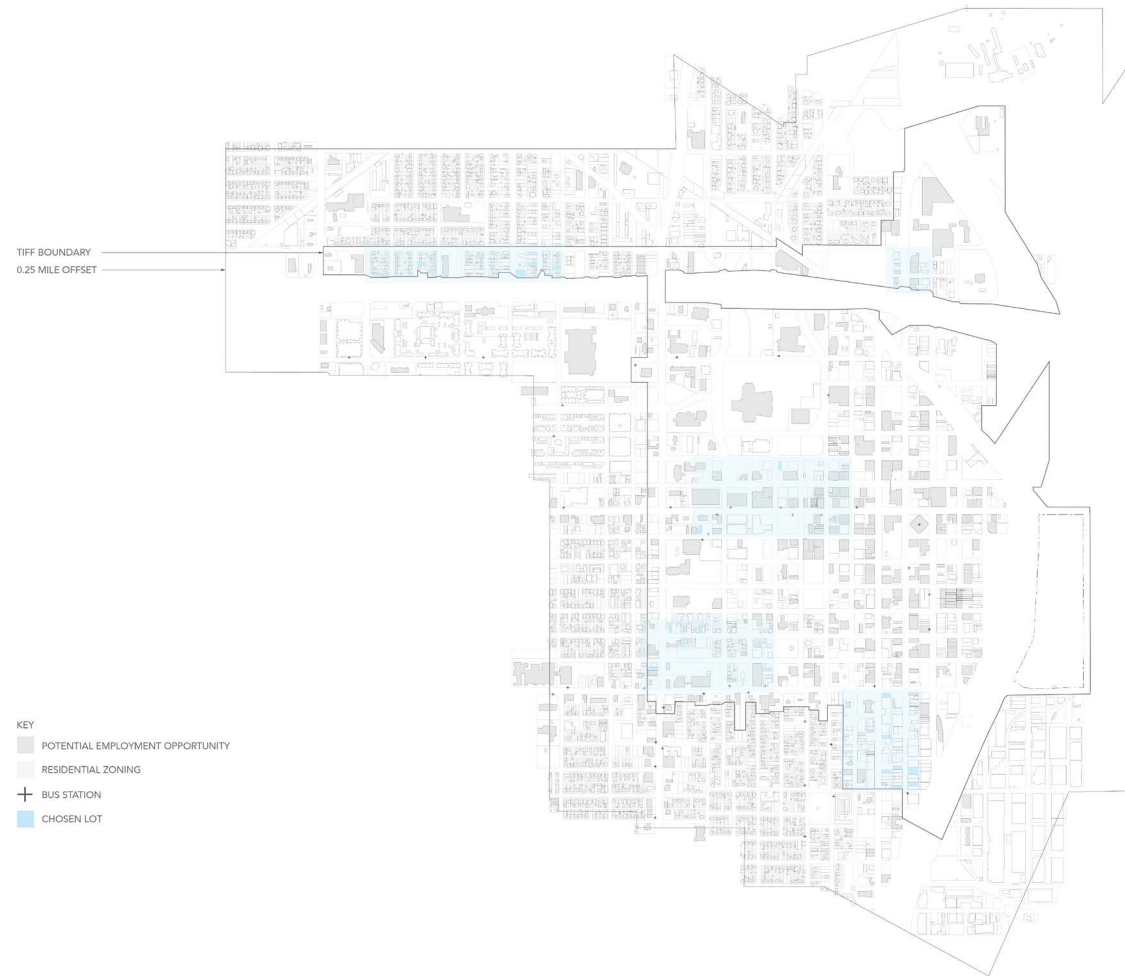
By combining various concepts, the group designed a multi-generational, self-sustaining housing facility where residents can live, work, and engage. The facility offers all necessary services through on-site programming, promoting a self-sufficient lifestyle.

+ Lubbock | Texas + Graduate Year Two | Spring

Supervised / Supported Independent Living

This studio will develop custom mapping tools for increasing cities' housing supply through small-scale odd lots. As residuals of cities' shifting urban morphology, these uniquely shaped infill opportunities resist formulaic real estate speculation and require an architectural vision beyond the imagination of most developers.

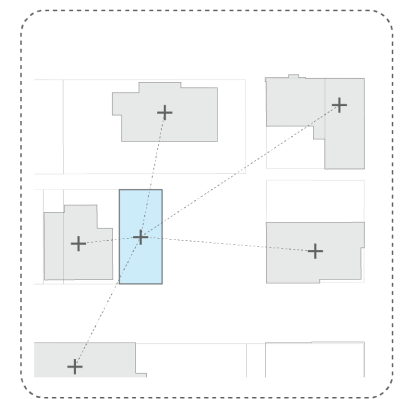
The recently defined Tax Incremental Finance district will serve as a boundary for this investigation as parameters serve to define characteristics unique to persons living with Intellectual and or Developmental Disabilities to determine a set of parcels for testing and applying architectural housing strategies at an urban scale.



PROXIMITY TO BUS STOPS



PROXIMITY TO LOW DENSITY RESIDENTIAL



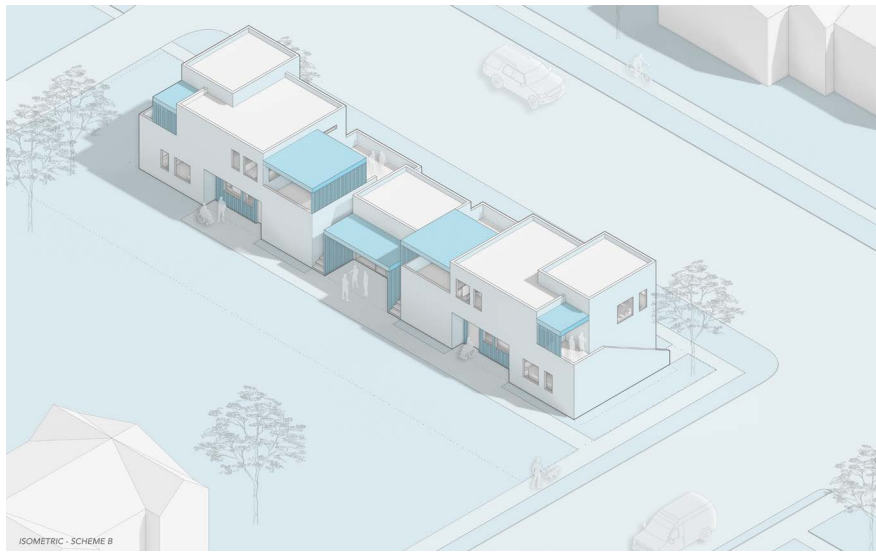
PROXIMITY TO POTENTIAL EMPLOYERS



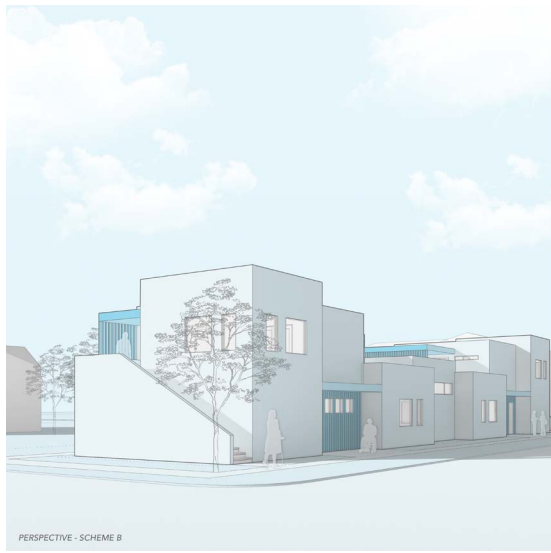
ISOMETRIC - SCHEME A



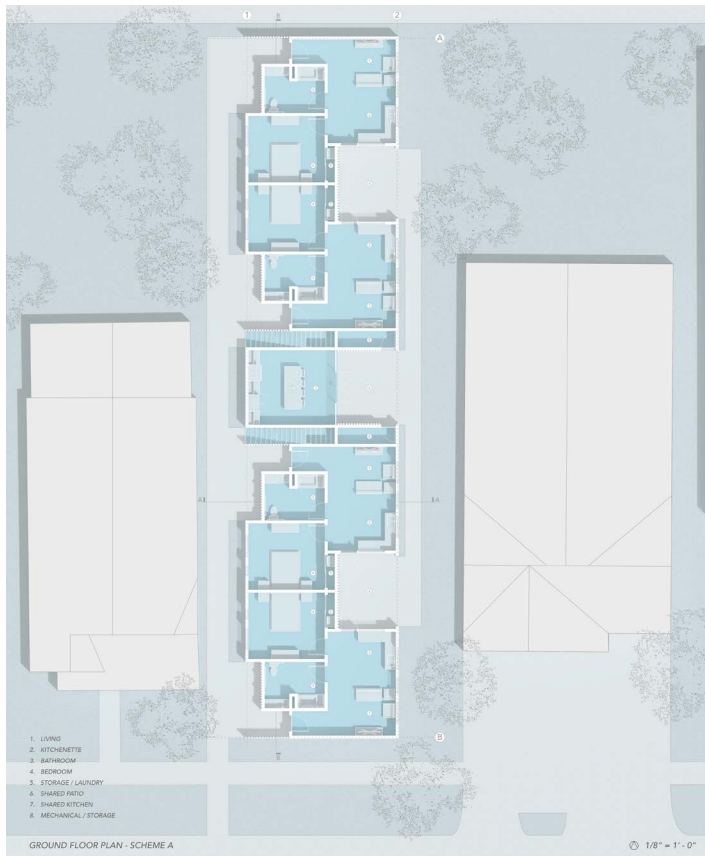
PERSPECTIVE - SCHEME A



ISOMETRIC - SCHEME B

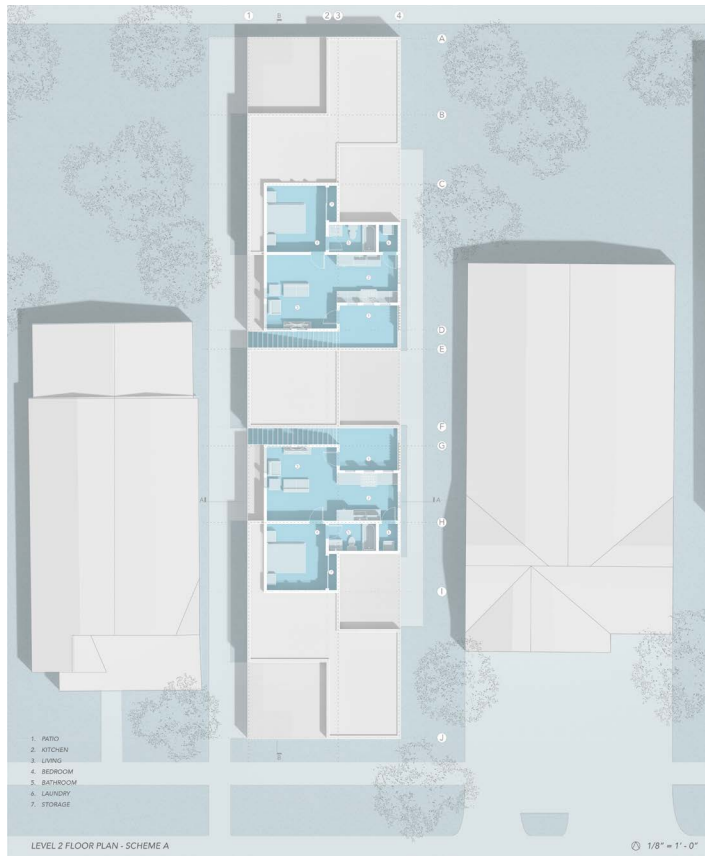


PERSPECTIVE - SCHEME B



GROUND FLOOR PLAN - SCHEME A

1/8" = 1'-0"



LEVEL 2 FLOOR PLAN - SCHEME A

1/8" = 1'-0"



GROUND FLOOR PLAN - SCHEME B

1/8" = 1'-0"



LEVEL 2 FLOOR PLAN - SCHEME B

1/8" = 1'-0"

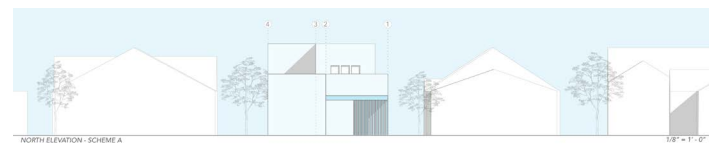
SCHEME A - SUPERVISED INDEPENDENT LIVING

SCHEME B - SUPPORTED INDEPENDENT LIVING



SECTION PERSPECTIVE - SCHEME A

1/4" = 1'-0"



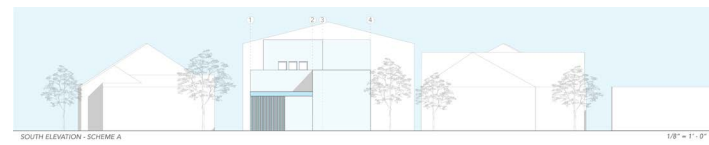
NORTH ELEVATION - SCHEME A

1/8" = 1'-0"



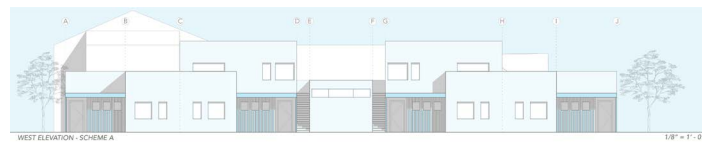
EAST ELEVATION - SCHEME A

1/8" = 1'-0"



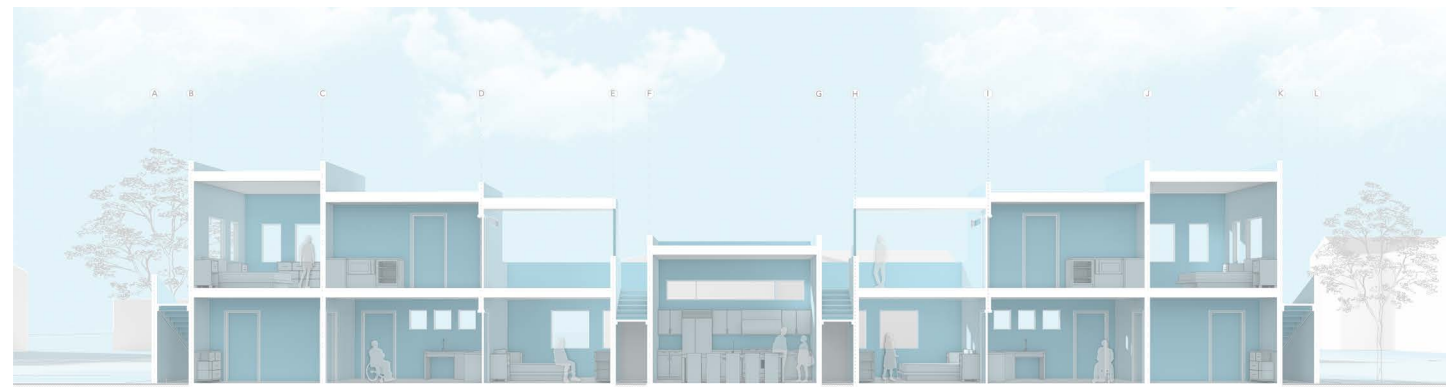
SOUTH ELEVATION - SCHEME A

1/8" = 1'-0"



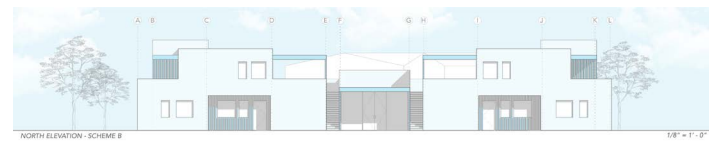
WEST ELEVATION - SCHEME A

1/8" = 1'-0"



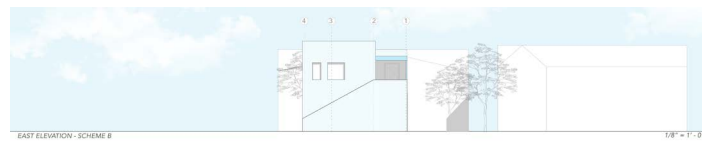
SECTION PERSPECTIVE - SCHEME B

1/4" = 1'-0"



NORTH ELEVATION - SCHEME B

1/8" = 1'-0"



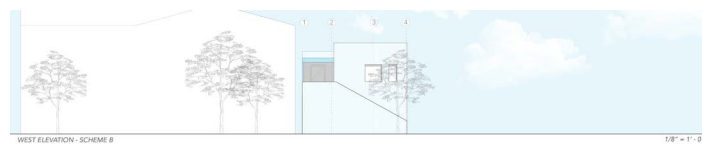
EAST ELEVATION - SCHEME B

1/8" = 1'-0"



SOUTH ELEVATION - SCHEME B

1/8" = 1'-0"



WEST ELEVATION - SCHEME B

1/8" = 1'-0"

001 PIN: 34028 ADDR: 307 AVE W SCORE: 0.690196	002 PIN: 52903 ADDR: 1638 17TH ST SCORE: 0.623529	003 PIN: 11104 ADDR: 311 AVE U SCORE: 0.620915	004 PIN: 41730 ADDR: 1707 AVE N SCORE: 0.616993	005 PIN: 41515 ADDR: 1515 15TH ST SCORE: 0.616993	006 PIN: 41974 ADDR: 1625 17TH ST SCORE: 0.606536
007 PIN: 41861 ADDR: 1806 AVE M SCORE: 0.639922	008 PIN: 16404 ADDR: 1928 TEXAS AVE SCORE: 0.583007	009 PIN: 34017 ADDR: 316 VERNON AVE SCORE: 0.569935	010 PIN: 65392 ADDR: 304 UVALDE AVE SCORE: 0.559477	011 PIN: 28305 ADDR: 1620 13TH ST SCORE: 0.55817	012 PIN: 34019 ADDR: 312 VERNON AVE SCORE: 0.554248
013 PIN: 42007 ADDR: 1808 AVE Q SCORE: 0.542484	014 PIN: 56668 ADDR: 2108 AVE J SCORE: 0.533333	015 PIN: 36162 ADDR: 314 WACO AVE SCORE: 0.51634	016 PIN: 16399 ADDR: 1953 TEXAS AVE SCORE: 0.515033	017 PIN: 16388 ADDR: 2210 BUDDY HOLLY SCORE: 0.508497	018 PIN: 41326 ADDR: 1111 BROADWAY SCORE: 0.508497
019 PIN: 52912 ADDR: 1618 17TH ST SCORE: 0.503268	020 PIN: 11118 ADDR: 308 TEMPLE AVE SCORE: 0.499346	021 PIN: 11106 ADDR: 315 AVE U SCORE: 0.490196	022 PIN: 16393 ADDR: 2234 BUDDY HOLLY SCORE: 0.488889	023 PIN: 53776 ADDR: 316 AVE H SCORE: 0.486275	024 PIN: 16386 ADDR: 1901 TEXAS AVE SCORE: 0.481046
025 PIN: 53728 ADDR: 308 AVE G SCORE: 0.478431	026 PIN: 16385 ADDR: 1903 TEXAS AVE SCORE: 0.475817	027 PIN: 19897 ADDR: 313 TEMPLE AVE SCORE: 0.460131	028 PIN: 11105 ADDR: 313 AVE U SCORE: 0.457516	029 PIN: 41164 ADDR: 1311 10TH ST SCORE: 0.454902	030 PIN: 16370 ADDR: 1916 BUDDY HOLLY SCORE: 0.452288
031 PIN: 11121 ADDR: 302 TEMPLE AVE SCORE: 0.449673	032 PIN: 16380 ADDR: 1931 TEXAS AVE SCORE: 0.447059	033 PIN: 36119 ADDR: 2227 BUDDY HOLLY SCORE: 0.436601	034 PIN: 36114 ADDR: 2207 BUDDY HOLLY SCORE: 0.419608	035 PIN: 19886 ADDR: 310 AVE T SCORE: 0.416993	036 PIN: 36112 ADDR: 2205 BUDDY HOLLY SCORE: 0.413072

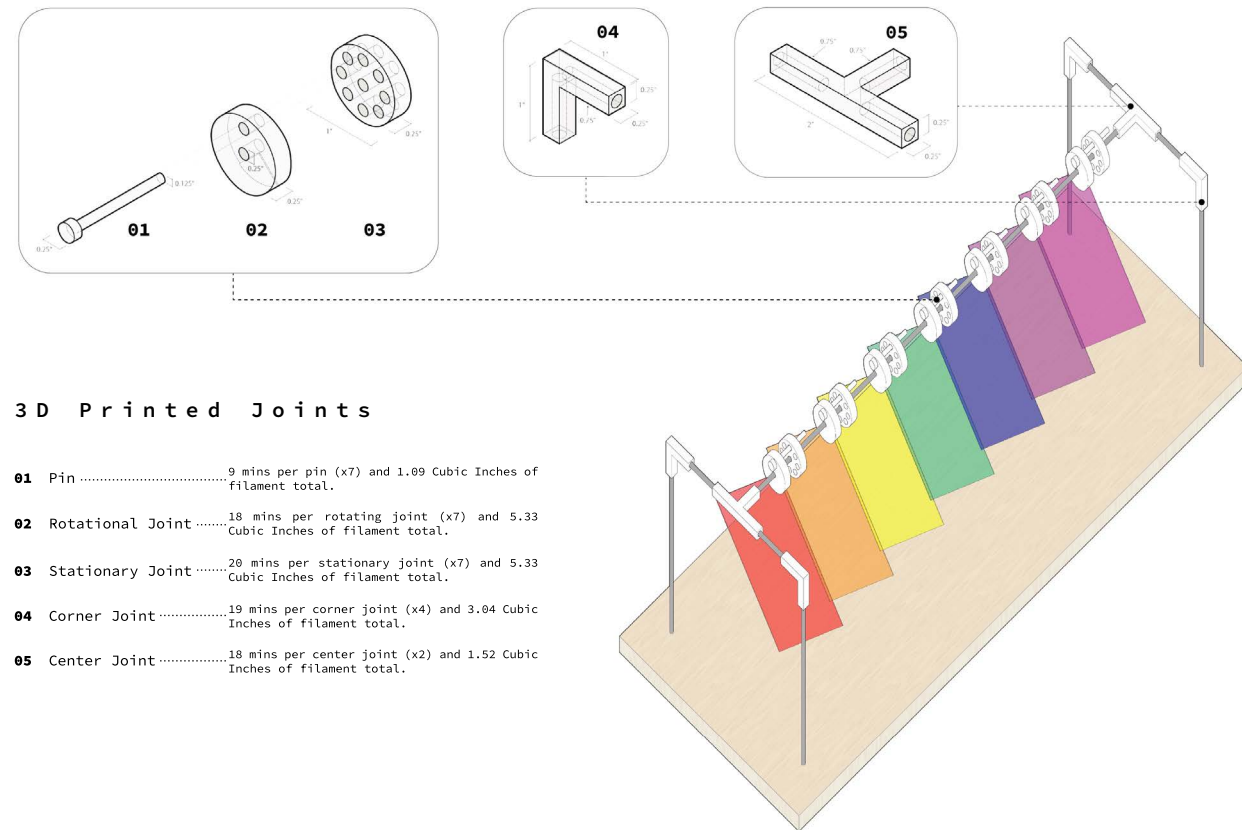
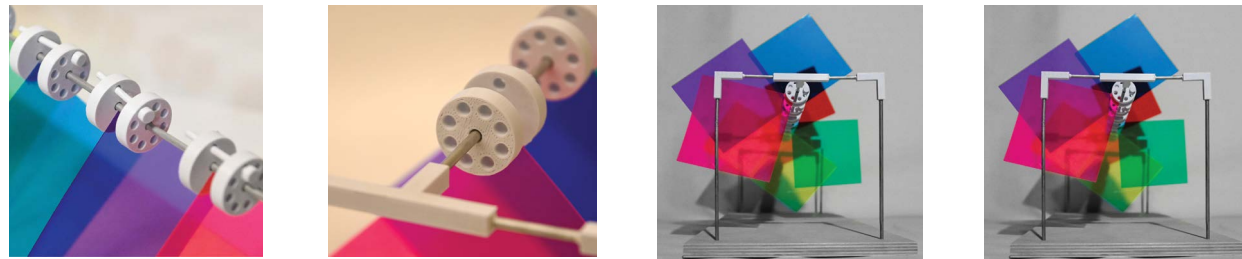
PROJECT SUMMARY

an analysis of lots within the Lubbock Texas TIF District is conducted, utilizing Grasshopper scripting to rank and determine 36 parcels which best represent proximity to bus stations, proximity to potential employment opportunities, location in relation to residential cluster, and lot obliqueness and area. From this ranking, an analysis of the Unified Development Code, leads to a greater understanding of the potentials of buildable areas, and provides insights into the potential for the addition of a Multiplex type Supervised Independent Living Facility in Lubbock Texas.

The design serves to create a sense of normalcy for users who typically feel out of place. Individualized unit entrances grant users a personal claim and stake in their community. The versatility of the unit design allows the units to be iterated in a variety of way allowing placement on odd lots throughout the TIF District.

Chroma

A model that mostly uses a standard rectangular frame with a center axis that has rotatable joints that allow for the exploration of color combinations. Then with the model idea in mind we then established what types of joints we would need which include joints for the frame connections, joints that allow for rotation while holding another material and stationary joints that would help lock the rotating joints.

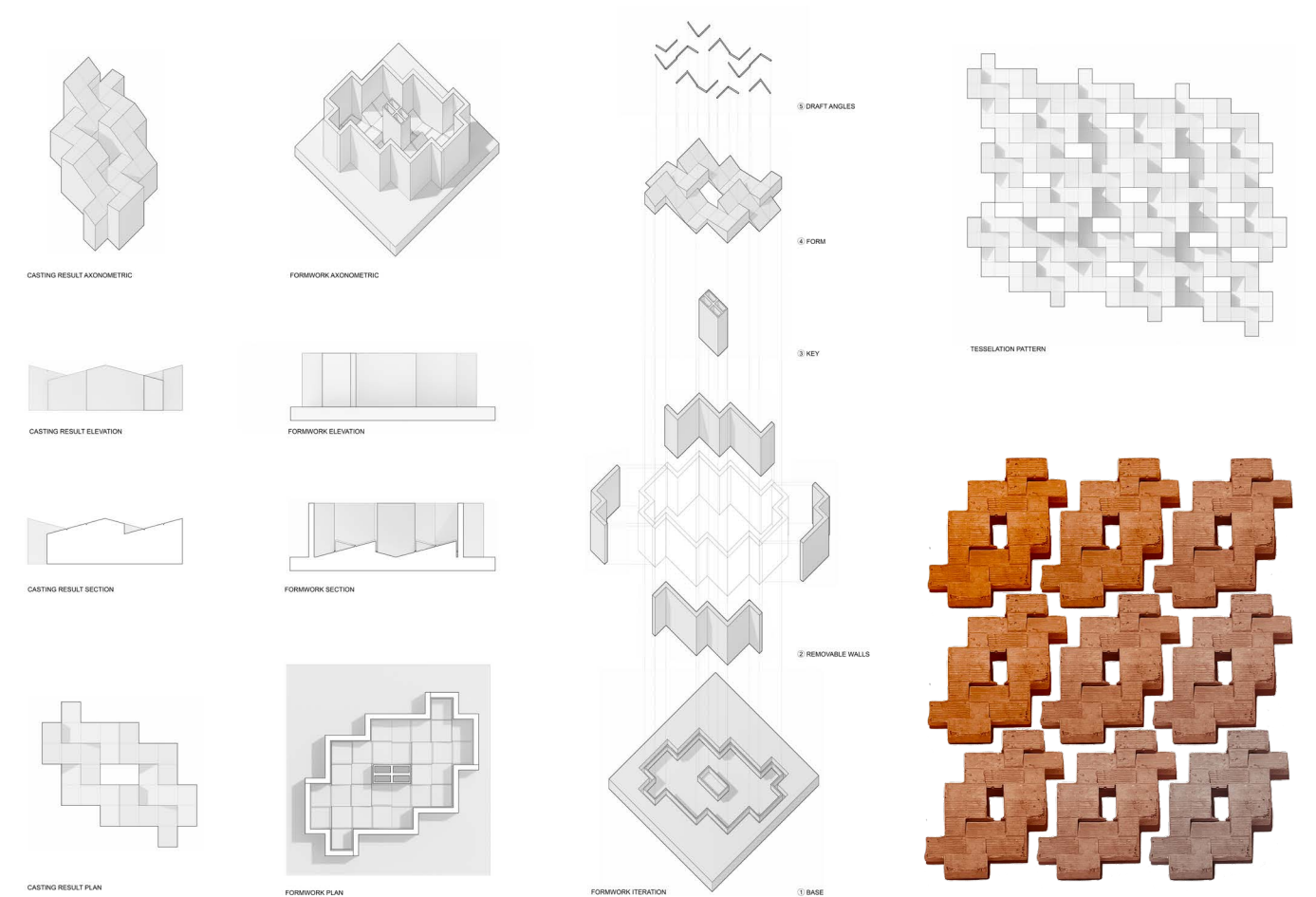
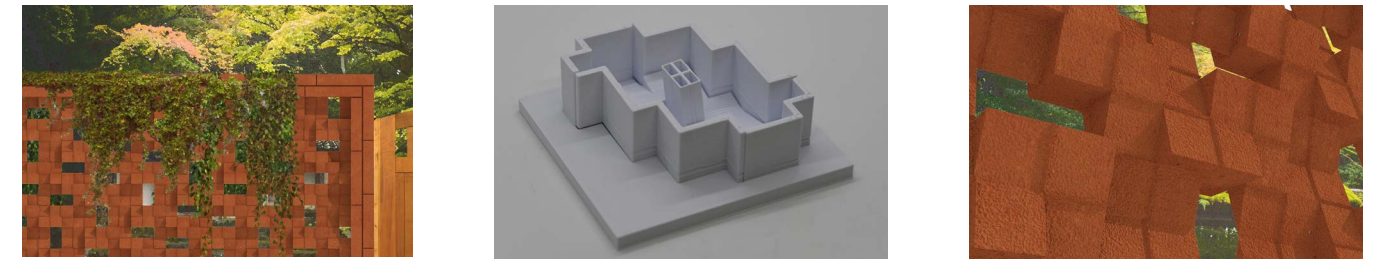


3D Printed Joints

- 01 Pin 9 mins per pin (x7) and 1.09 Cubic Inches of filament total.
- 02 Rotational Joint 18 mins per rotating joint (x7) and 5.33 Cubic Inches of filament total.
- 03 Stationary Joint 20 mins per stationary joint (x7) and 5.33 Cubic Inches of filament total.
- 04 Corner Joint 19 mins per corner joint (x4) and 3.04 Cubic Inches of filament total.
- 05 Center Joint 18 mins per center joint (x2) and 1.52 Cubic Inches of filament total.

The Key

How can we create a complex form out of Rockite that tessellates in multiple directions? To begin the project multiple modules were made with differing step patterns and forms to explore how the various shapes and patterns affect the aesthetic of the overall system. In order to approve the removal process of the casted rockite from the mold, an iteration which used a series of removable walls as well as a central "key" was composed.



+ Mescalero | New Mexico + Graduate Year Two | Fall

NATIVE AMERICAN CULTURAL AND COMMUNITY CENTER

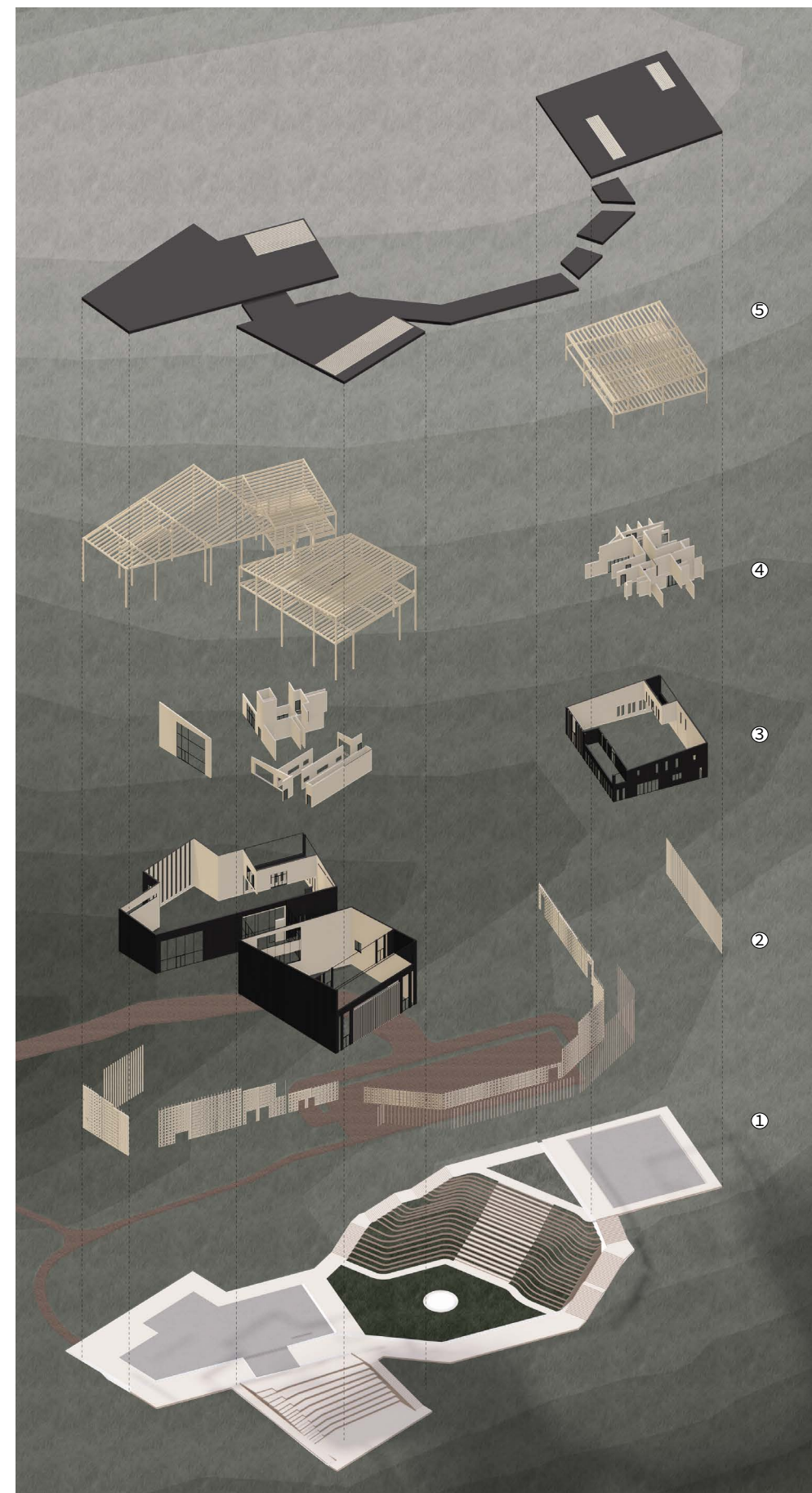
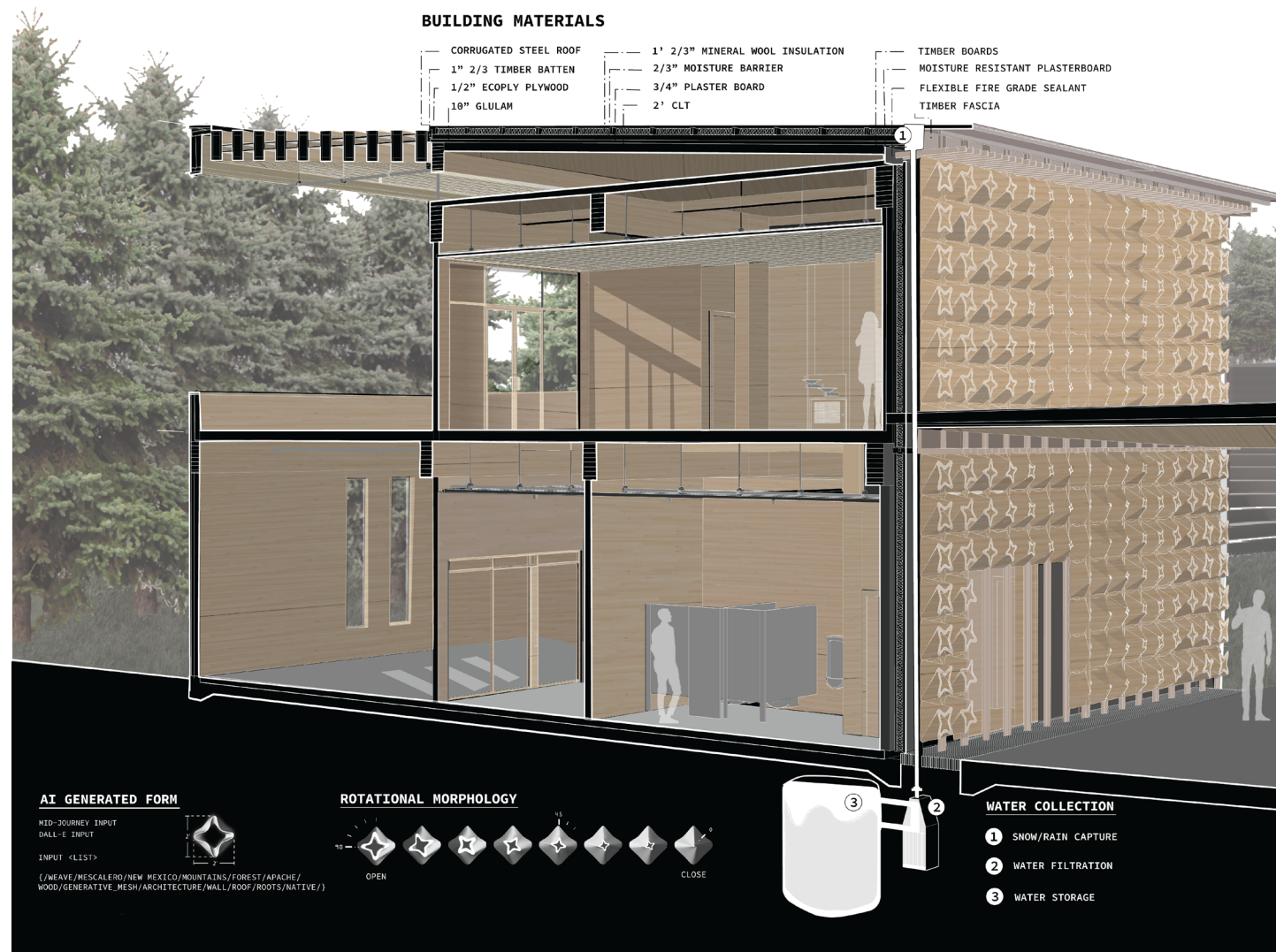
This studio aims to investigate architectural issues while working with local indigenous tribes that were historically located in the surrounding staked plains and canyons of West Texas to design a cultural center in their current location along the margins of Texas within New Mexico, Oklahoma, and Mexico.

The Mescalero Apache Tribe values the sacredness of the land and nature. Similarly, the proposed center aims to minimize its environmental impact by occupying a small land footprint and using ethically sourced local materials. This approach not only aligns with tribal beliefs but also supports the community by providing employment opportunities through the harvesting and processing of materials locally.

In collaboration with Timothy Estrada

BUILDING MATERIALS

- | | | |
|-----------------------|---------------------------------|---------------------------------|
| CORRUGATED STEEL ROOF | 1' 2/3" MINERAL WOOL INSULATION | TIMBER BOARDS |
| 1" 2/3" TIMBER BATTEN | 2/3" MOISTURE BARRIER | MOISTURE RESISTANT PLASTERBOARD |
| 1/2" ECOPLY PLYWOOD | 3/4" PLASTER BOARD | FLEXIBLE FIRE GRADE SEALANT |
| 10" GLULAM | 2' CLT | TIMBER FASCIA |



- 5. Corrugated Steel Roofing
- 4. CLT Structural Framing
- 3. Interior Walls
- 2. Exterior Walls - Shou Sugi Bond
- 1. Wall Shading System



SITE ENTRY VIA TRAIL

SITE ENTRY VIA ROAD

SHARED AREA FOR PARKING AND DISASTER RELIEF HOUSING

CULTURAL CENTER MAIN ENTRY (0FT)

COMMUNITY CENTER MAIN ENTRY (+26FT)

CEREMONIAL FIRE PIT

LOWER VIEWING DECK (-12FT)

NORTH FACING VIEW TO THE SACRED SIERRA BLANCA MOUNTAIN PEAK

CULTURAL CENTER

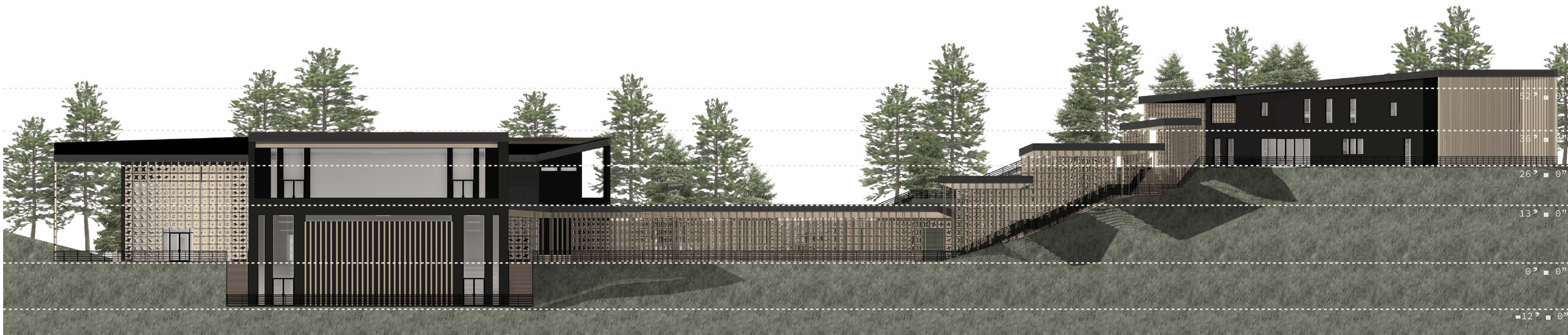
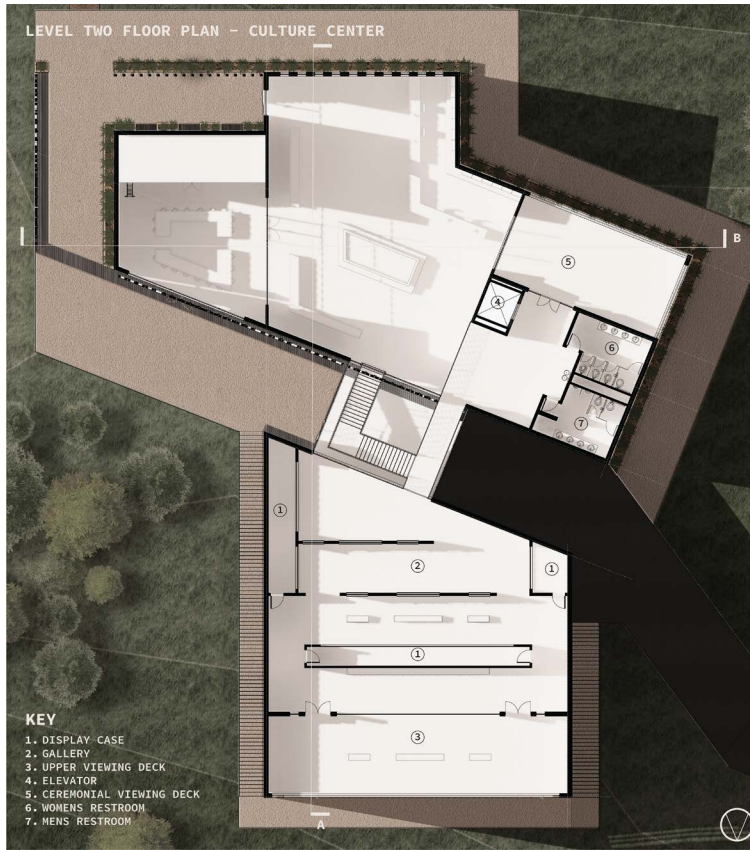
OUTDOOR AMPHITHEATER

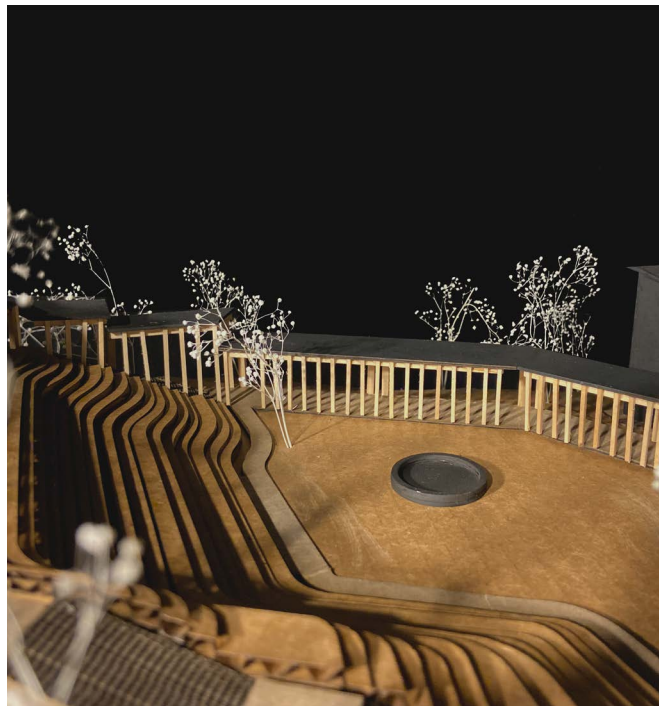
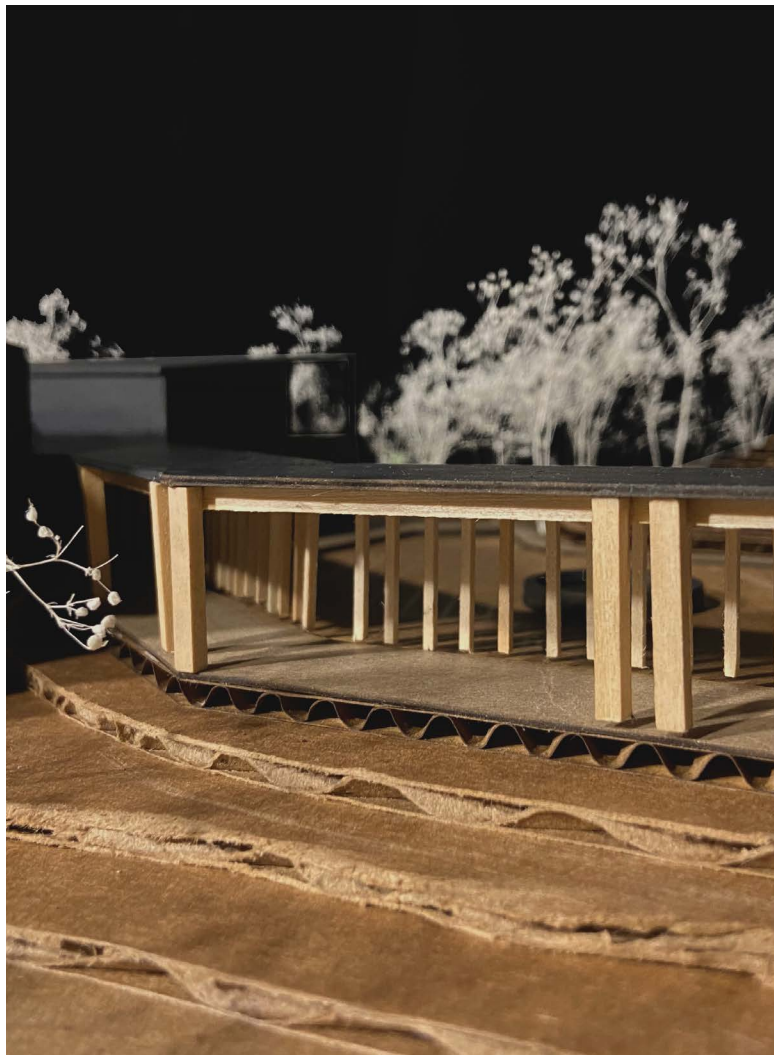
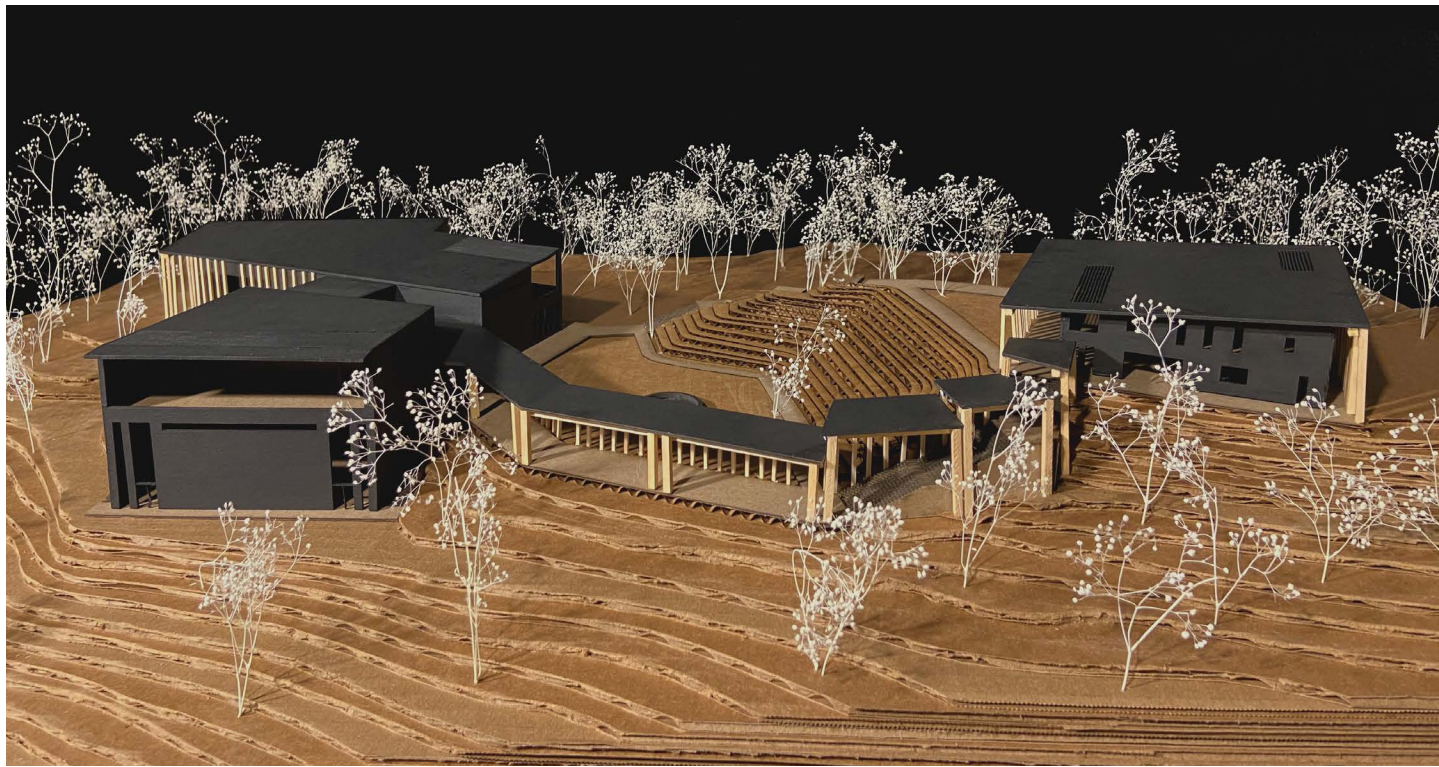
COMMUNITY CENTER

KEY

- 1. STORAGE
- 2. CRAFT WORKSHOP
- 3. TICKETING / VENDOR DISPLAY
- 4. ATRIUM
- 5. AUDITORIUM
- 6. STAFF WORK
- 7. ELEVATOR
- 8. MANAGER OFFICE
- 9. STAFF BREAK
- 10. MENS RESTROOM
- 11. WOMENS RESTROOM
- 12. MEDIA CENTER
- 13. COMMUNITY REC ROOM
- 14. PRIVATE WORKSPACE
- 15. GROUP COLLABORATION
- 16. KITCHEN
- 17. FOOD STORAGE







PROJECT SUMMARY

The Mashgale-Ode center aims to address housing needs by providing temporary housing for residents awaiting permanent housing in communities under construction. It will offer 34 beds, amenities such as showers, laundry, and kitchen space, along with workstations and collaboration rooms. Additionally, outdoor space will serve for temporary disaster relief housing during wildfires and floods. The center's cultural tourism initiatives aim to boost community income and reduce poverty rates.

By separating museum spaces from community programming, privacy for tribal members is ensured. The structure, overlooking Sierra Blanca Peak, mirrors the landscape and includes a listening library integrated with the surroundings. The central space serves as ceremonial grounds for honoring Mescalero Apache traditions. Named "Mashgale-Ode" or "The People of the Mountain Forest", the center seeks to address community needs and immerse visitors in Mescalero Apache culture.

JACLYNN HERBEIN

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