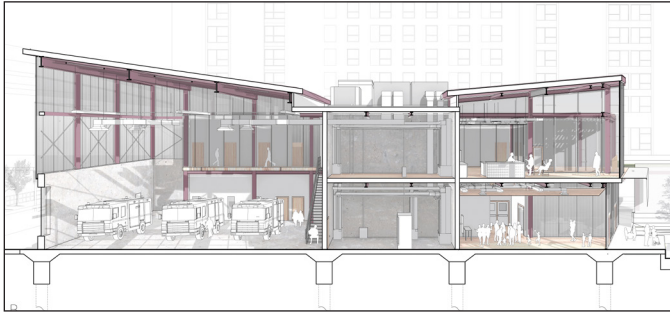




PORTFOLIO

Ella Maxwell

B.Arch 2026
Carnegie Mellon University

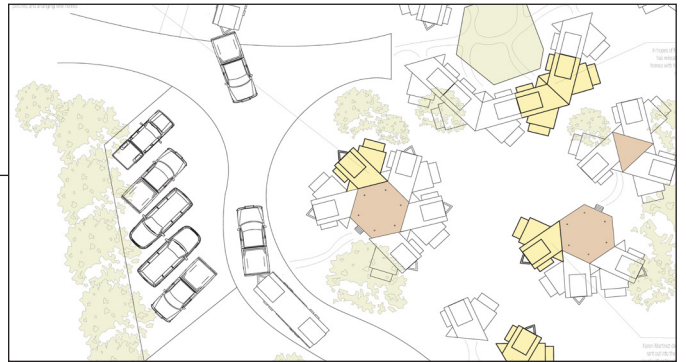


01

INTERCONNECTIVE
GRADIENCE

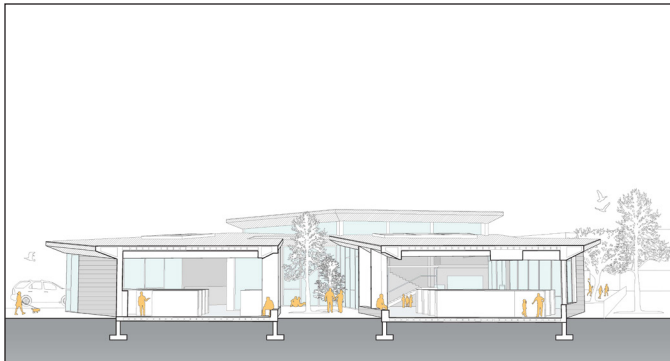
02

CONNECTED LIVING



03

READING REFUGE



04

ANALOG DRAWINGS



Ella Maxwell

Architecture undergraduate seeking summer student internship

emaxwell@andrew.cmu.edu
(979) - 676 - 6875

Education

- Carnegie Mellon University Pittsburgh, PA
- B. Arch & B.A Hispanic Studies Expected 2026
 - QPA: 3.84
- A&M Consolidated High School (2021) College Station, TX
- Summa Cum Laude

Experience

- Facilities Assistant** (2024- Present) Pittsburgh, PA
Carnegie Mellon School of Architecture
- Manage the upkeep of student and faculty spaces
 - Troubleshoot equipment and restock printing resources
 - Coordinate between faculty members to plan larger projects and place orders for necessary supplies

- Music Technology Assistant** (2023- Present) Pittsburgh, PA
Carnegie Mellon School of Music
- Supervise open hours for music technology lab
 - Assist students with different Digital Audio Workstation softwares

- Teaching Assistant: Intro to Structures** (Spring 2024) Pittsburgh, PA
Carnegie Mellon School of Architecture
- Graded assignments, provided feedback to students, and held weekly office hours

- Conservation Intern** (Summer 2024) Monteverde, Costa Rica
Monteverde Institute
- Developed and executed an ecological research study to aid in reforestation and habitat recolonization initiatives
 - Presented findings at a community showcase

- Summer Camp Counselor** (2021- 2023) Winchester, VA
Baltimore Yearly Meeting (Opequon Quaker Camp)
- Organized and led backpacking trips for youth (9-14)
 - Planned collaborative art and gardening workshops

- Trail Builder** (2020- 2023) Dryfork, WV
Summer Projects for Various Private Landowners
- Leveled steep grades to prevent erosion
 - removed invasive plant species, installed steps and water drainage

- Illustrator** (2020-2021) College Station, TX
Employed by Chad Cryer, Published by Green Publishing House
- Illustrated and published a children's book (A Day At The Ooz)
 - Developed skills in digital editing, scanning, lighting fixes

- Translator** (2018- 2020) Bryan, TX
- Interviewed Spanish-speaking clients to register them for food distributions at Brazos Church Pantry

Software

Proficiency in Rhino, Adobe Illustrator/ Photoshop/ InDesign, Rhino V-Ray, Google Suite

Intermediate skill levels in Rhino Grasshopper, KeyShot, Enscape, Microsoft

Developing skills in AutoCAD, ArcGIS, Revit

Skills & Training

Strategic & Long-term Planning
Communication & Feedback
Performance and Presentation
Analog & Perspective Hand Drawing
Full Professional Spanish Proficiency

Workshops
Active Listening
Diversity, Equity, Inclusion
Leadership

Previous Certifications
Lifeguard
Wilderness First Aid

Activities

Ultimate Frisbee 2021- Present
Culture Chair

- Monitored group dynamics
- Integrated new players
- Planned & lead social events

Musician / Songwriter 2013- Present

- Arrange and record in DAW software
- Manage YouTube channel
- Songwriting and live performance
- Vocals, piano, guitar, ukelele, cello

Achievements

- CMU Dean's List: F22, S23, F23, F24
- USA College Ultimate Nationals Level
- 2020 High School VASE Art Competition Regional & State Level
- High School Solo & Ensemble Orchestra Highest Achievement



01 INTERCONNECTIVE GRADIENCE

REDESIGNING THE FIRE STATION AS A PLACE FOR PUBLIC ENGAGEMENT

The Strip District, Pittsburgh, PA

PRAXIS III / 4th Year Studio

Fall 2024

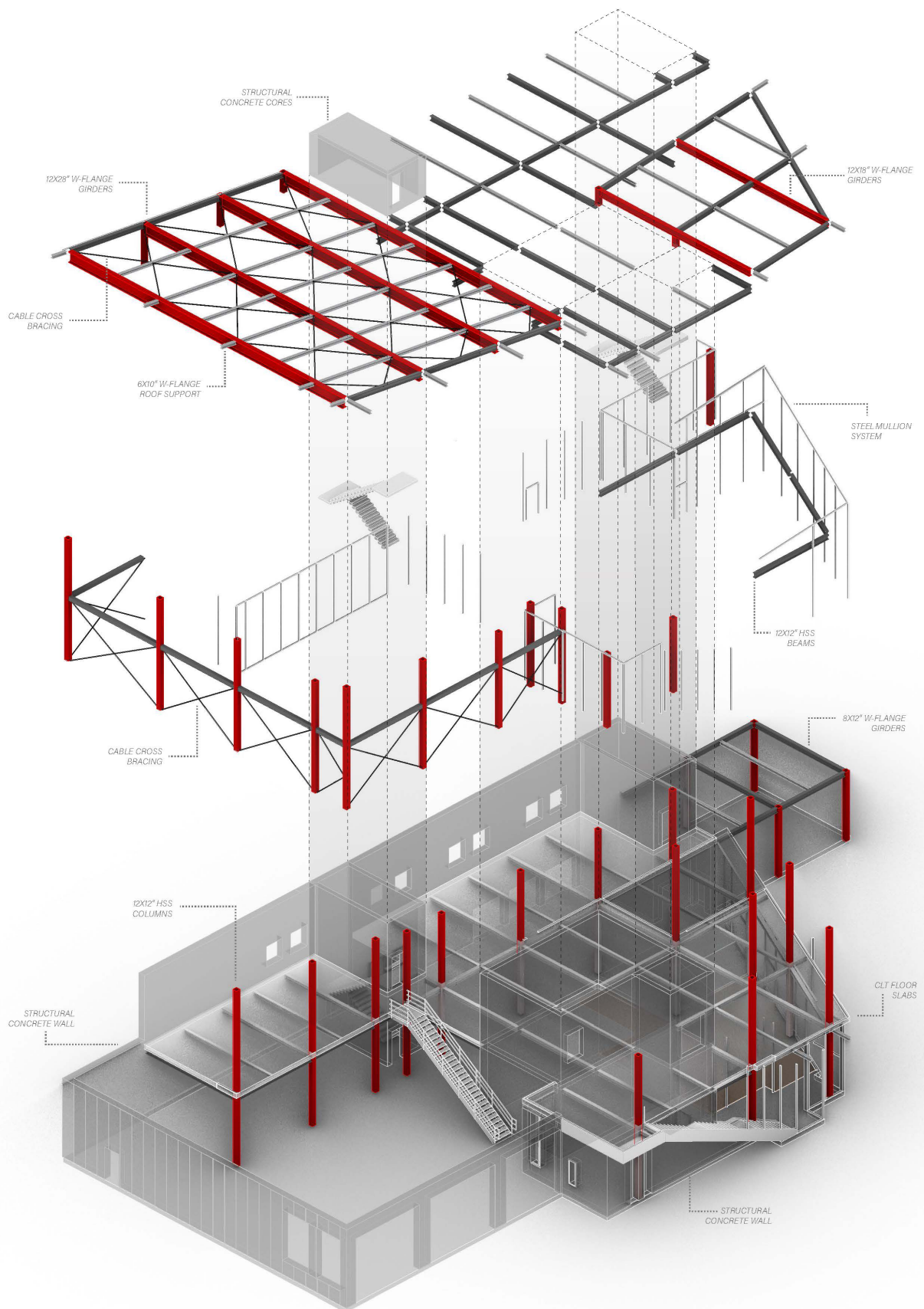
Instructor: Niloufar Alenjery

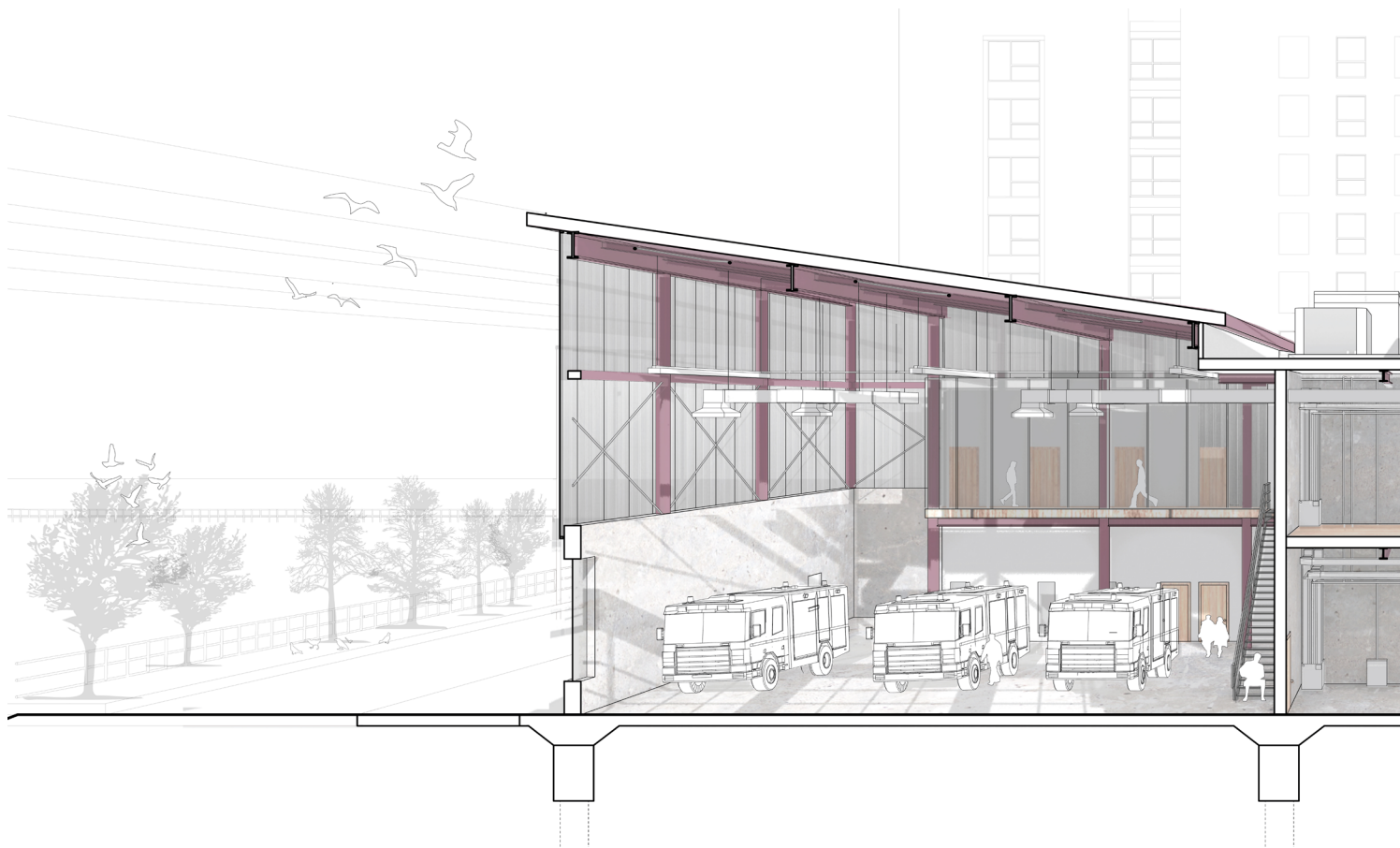
In collaboration with Delaney Rice, Bella Salazar Harper, and Shahzadi Padda

Our proposed design for Fire Station #3 seeks to address the lack of public amenities serving the highly frequented Strip District. The project invites the public to witness the fire station's inner workings through varying levels of access, communicated in a gradient of physical and visual connection. This gradient creates a weave of spaces that attempt to embrace the tension between the fire station as a critical service and a place of public amenity.



(Top) Front Facade Rendering
(Top Right) Entry Exterior Rendering
(Bottom Right) Beanyery Rendering



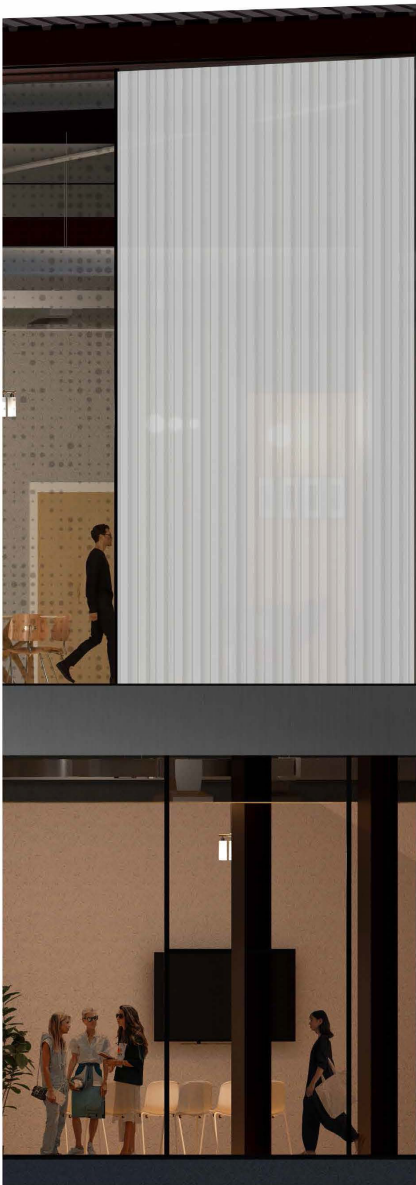
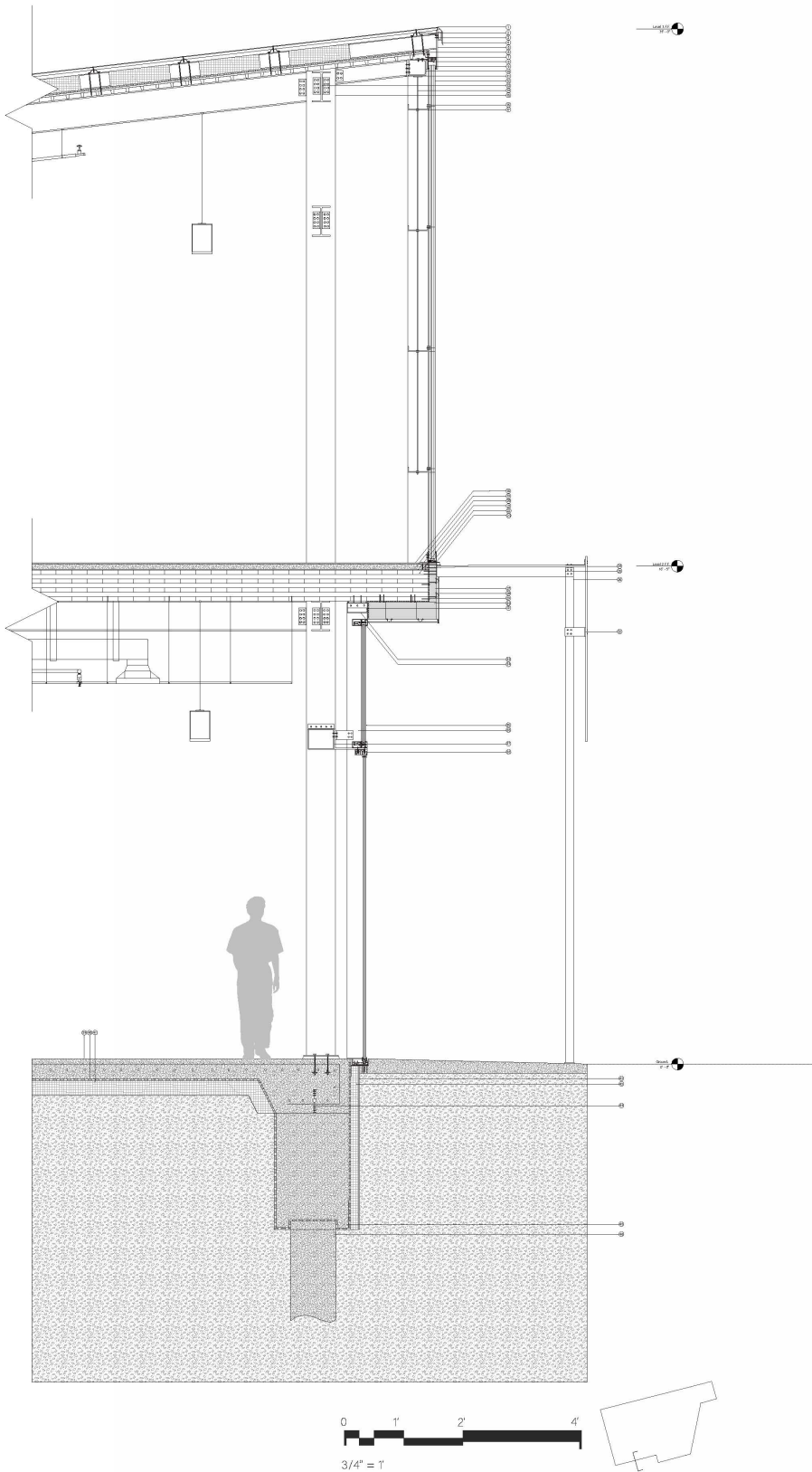




Middle Section Perspective



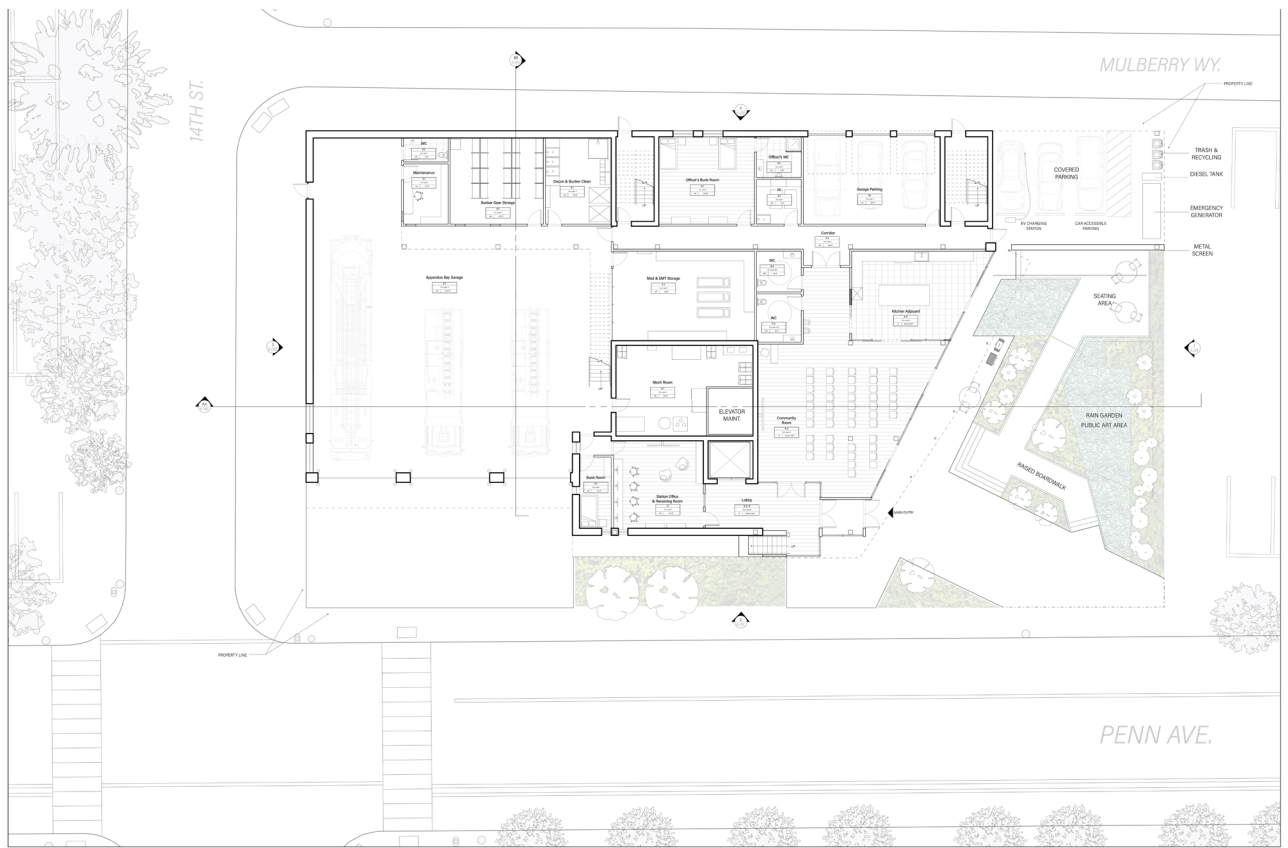
Front Section Perspective



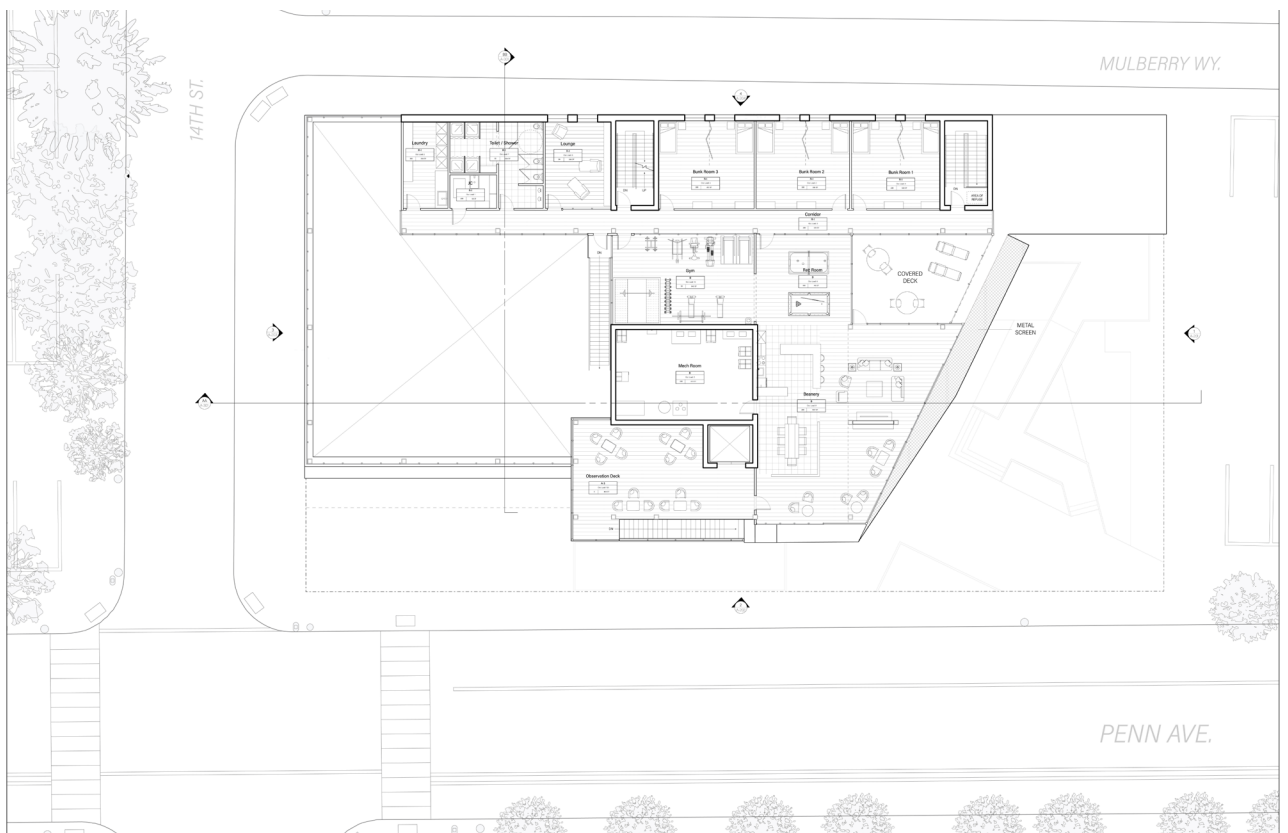
- 1 STANDING SEAM ROOFING: DALTON SERIES 1300
- 2 HAT CHANNEL
- 3 CASCADIA CLIP: FIBERGLASS THERMAL SPACER®
- 4 EAVE FLASHING
- 5 STEEL FASCIA
- 6 SUBSTRATE BOARD
- 7 METAL DECKING
- 8 VAPOR RETARDER
- 9 THERMALLY-BROKEN POLYCARBONATE HEADER CLIP
- 10 RSD-4" X 7"
- 11 6" X 6" W-FLANGE ROOF SUPPORT
- 12 RODECA-60MM POLYCARBONATE IN PEARL WHITE
- 13 8" X 12" W-FLANGE BEAM
- 14 SAG ROD
- 15 12" X 12" HSS COLUMN
- 16 VERTICAL POLYCARBONATE CLIP
- 17 8" WIND GIRT
- 18 3/4" HARDWOOD FLOORING
- 19 2" CONCRETE
- 20 ACUSTI-MAT
- 21 7" PLY CLT PANEL
- 22 THERMALLY-BROKEN POLYCARBONATE FOOTER
- 23 SILL PAN FLASHING
- 24 PERFORATED METAL SCREEN
- 25 4" SQUARE HSS SUPPORT
- 26 4" SQUARE HSS COLUMN
- 27 8" MINERAL WOOL INSULATION
- 28 ALUMINUM PANEL
- 29 CASCADIA COMPOSITE 2 GIRT
- 30 7" MINERAL WOOL INSULATION
- 31 TRANSOM MULLION
- 32 T ANCHOR
- 33 TRANSOM MULLION
- 34 KAWNEER 900UT CURTAIN WALL HEADER
- 35 1" DOUBLE PANE CURTAIN WALL INFILL
- 36 CURTAIN WALL MULLION
- 37 10' X 80' RECTANGULAR HSS
- 38 NANAWALL CIRD SLIDING GLASS DOOR SYSTEM
- 39 CONCRETE SLAB
- 40 WATERPROOFING
- 41 EXPANSION BOARD
- 42 1" EPS INSULATION
- 43 WATERSTOP
- 44 GRADE BEAM
- 45 CASSON

INSULATION REQUIREMENTS			
CONCRETE	TYPE	THICKNESS	REMARKS
ROOF	ROOF	6" MIN.	R-18
WALL	WALL	12" MIN.	R-24
FLOORING	FLOORING	12" MIN.	R-24
CEILING	CEILING	12" MIN.	R-24
DOOR	DOOR	12" MIN.	R-24

Beaney and Community Room Facade Detail



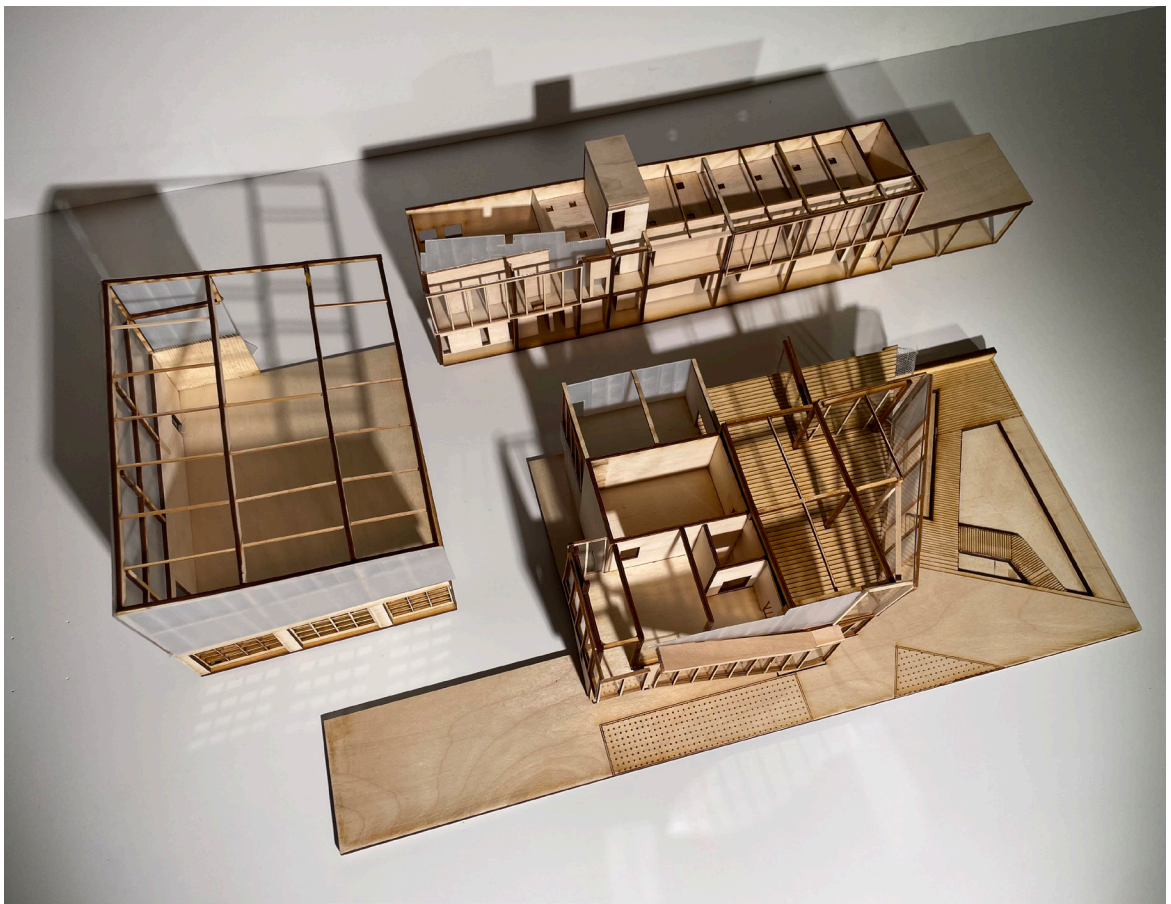
FIRST FLOOR + SITE PLAN



SECOND FLOOR PLAN



Physical Model



Physical Model- Breakaway Chunks



Envelope Chunk Model

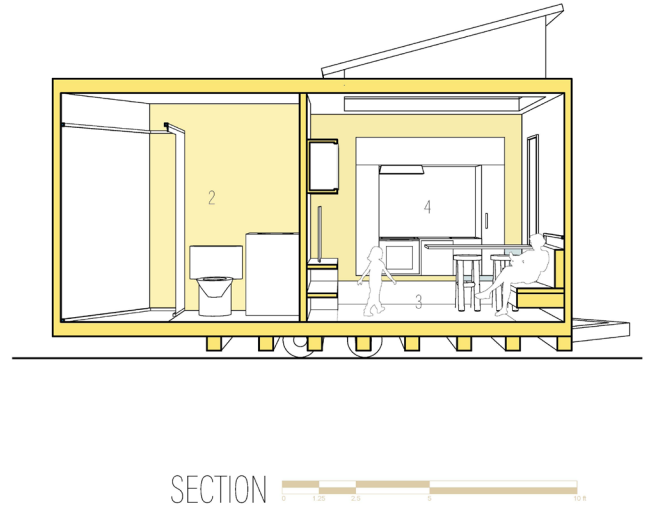
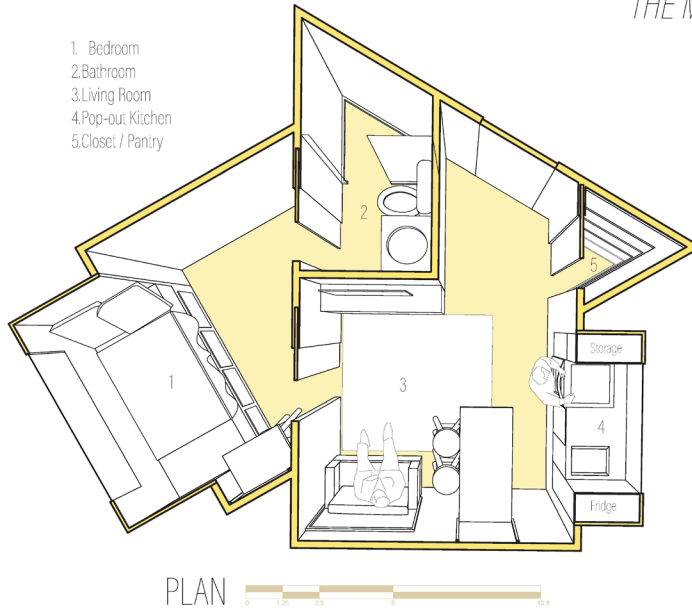


Physical Model- Apparatus Bay Chunk



Physical Model- Back

THE MODULE



02 CONNECTED LIVING

DESIGNING FOR CONNECTION IN A NOMADIC LIFESTYLE

Franklin Mountains State Park, El Paso, Texas

REIMAGINING THE MOBILE HOME / 2nd Year Options Studio
Spring 2023
Instructor: Jared Abraham

Individual Work

With thousands of displaced migrants at the US - Mexico Border, quick housing solutions are essential. After crossing the border, migrants seek solidarity, safety, and shelter as they continue their nomadic lifestyles in an unfamiliar place. However, the traditional mobile home is not only stigmatized, but often sacrifices community at the expense of mobility.

This project aims to reimagine the mobile home as a modular object that addresses the individual and the community as a whole, allowing it to exist both as a singular object, and to plug into a community wherever it goes. When connected, the homes form gardens, porches, schools, churches, and other civic spaces.





Luis Gonzalez

Luis has moved his family here in hopes of raising his kids near a community of people who both offend + share his culture. Luis travels into the nearby town to work & also helps with construction jobs around the community.



Alex Hernandez

After graduation, Alex moved to the Franklin Mountains and currently occupies a 6 unit module. He joined a band of workers who do jobs around the community such as landscaping, building new porches, and arranging new homes.



Paulina, Mateo, & Julio

Paulina, Mateo, and Julio joined a group of immigrants at the border after leaving pieces of a community in Northwest El Paso that would welcome them. Paulina works as a cook and spanish teacher for the community and Julio works as a guide.



Sarah Clarkson

Sarah Clarkson, after visiting the Franklin Mountains, has decided to stay in the community for a while. She anticipates trying to find a new location soon but is enjoying the peaceful life in the desert surrounded by a community of locals, travelers, and immigrants alike.



Joe Albert

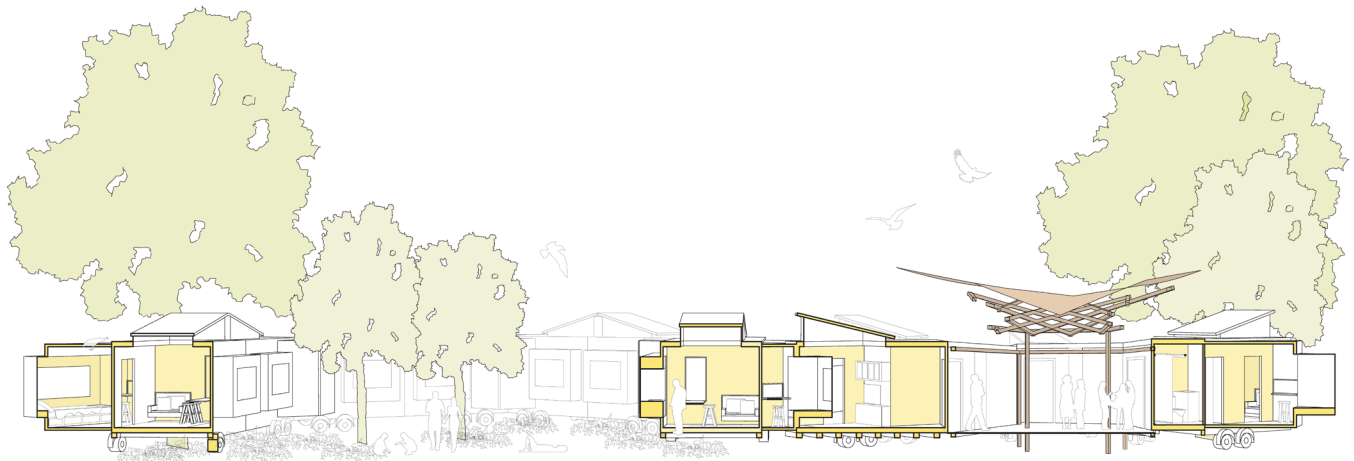
In hopes of finding connection and community, Joe has relocated to a 51 unit aggregation of modular homes with his grandmothers. They occupy a double module for privacy and joint resources.



Karen Martinez

Karen Martinez decided to relocate her family into and out into the new community. Here she found a couple other traveling musicians and currently lives in a expanding 6 unit with them. They enjoy playing concerts for the surrounding community on their porches.

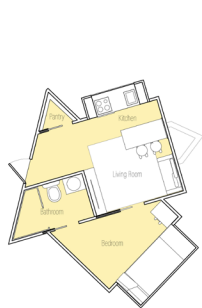
DETAILED SITE PLAN



LONG SECTION

Long Section

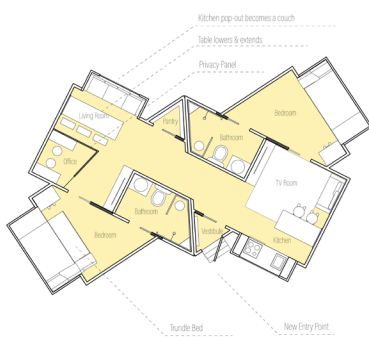
SUGGESTED MODULE VARIATIONS AND AGGREGATIONS



Original Single-Unit Module

Suitable for a couple or individual with a young child
Connects easily to the 6 and 12 unit arrangements

- 1 Living Room
- 1 Pop-out Kitchen
- 1 Bedroom
- 1 Bathroom
- 1 Pantry



Extension Module

Suitable for a larger family of 3-4 people

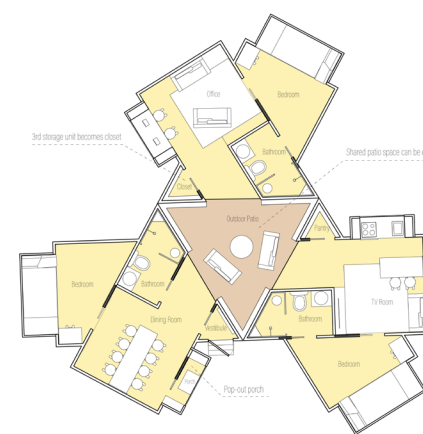
- 1 Living Room
- 1 Pop-out Kitchen
- 2 Bedrooms (can fit up to 4 people) with trundle beds
- 2 Bathrooms
- 1 Pantry
- 1 Mudroom / Vestibule Entry
- 1 Office Space
- 1 TV room



Double Module

Suitable for two individuals living together

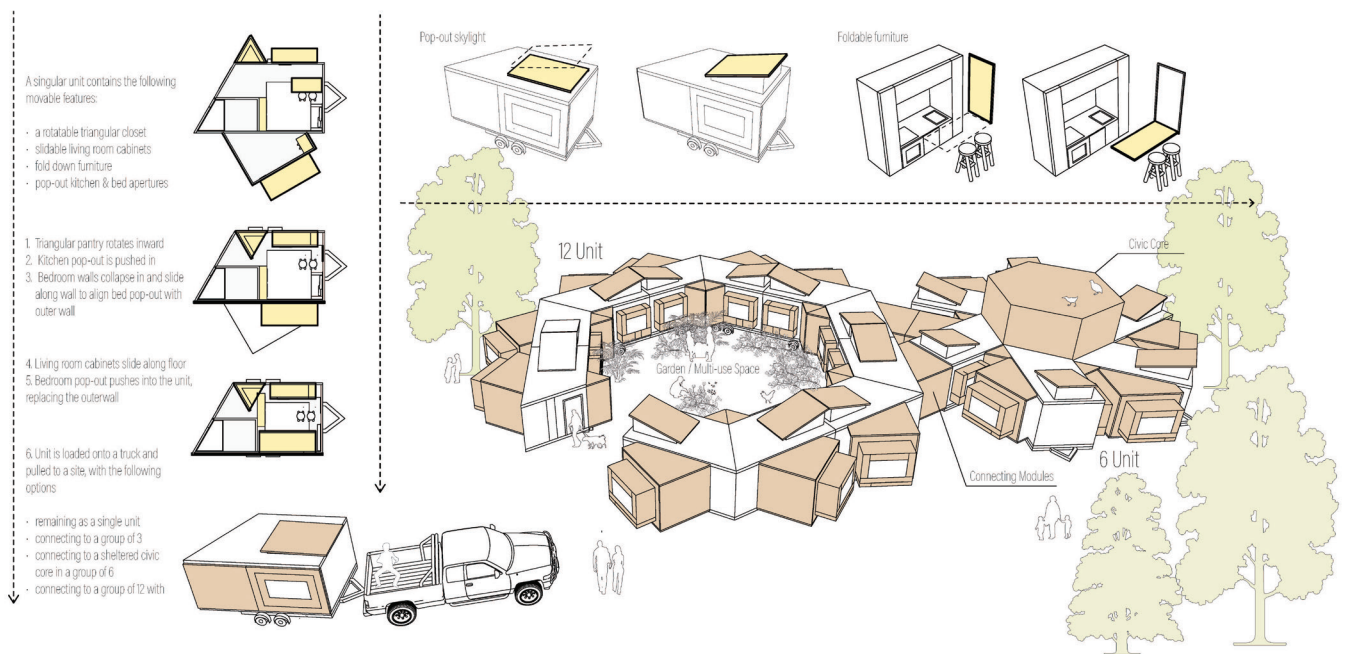
- 1 Office / Living Room
- 1 Pop-out Kitchen
- 2 Bedrooms
- 2 Bathrooms
- 1 Pantry
- 1 Mudroom / Vestibule Entry
- 1 TV Room



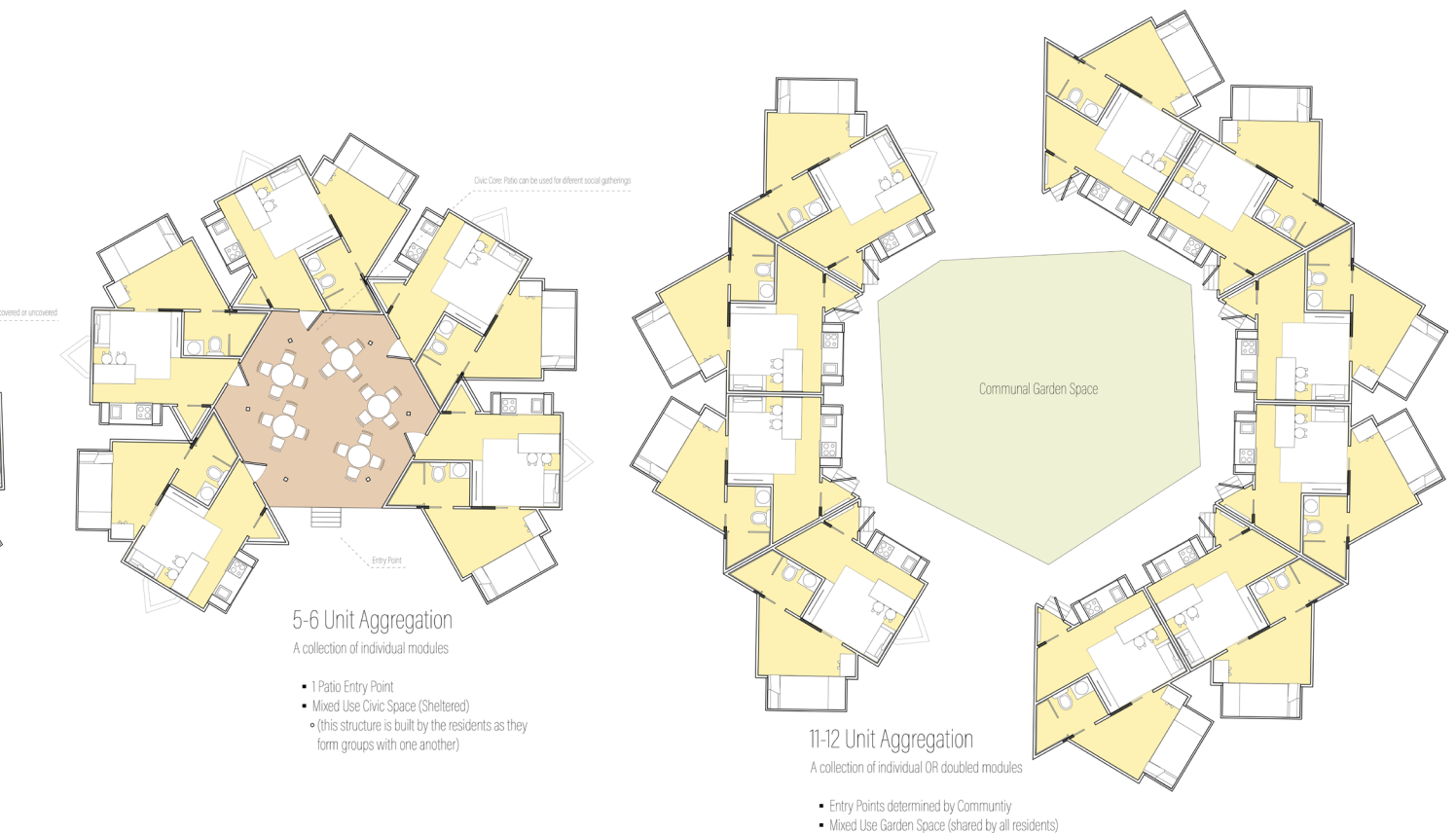
Triple Module

Suitable for larger families up to 6 people

- 1 Office / Living Room
- 1 Pop-out Kitchen
- 3 Bedrooms (5-6 beds)
- 3 Bathrooms
- 1 Pantry
- 1 Closet
- 1 Mudroom / Vestibule Entry
- 1 TV Room
- 1 Dining Room
- 1 Pop-out Porch
- 1 Centralized Patio Space



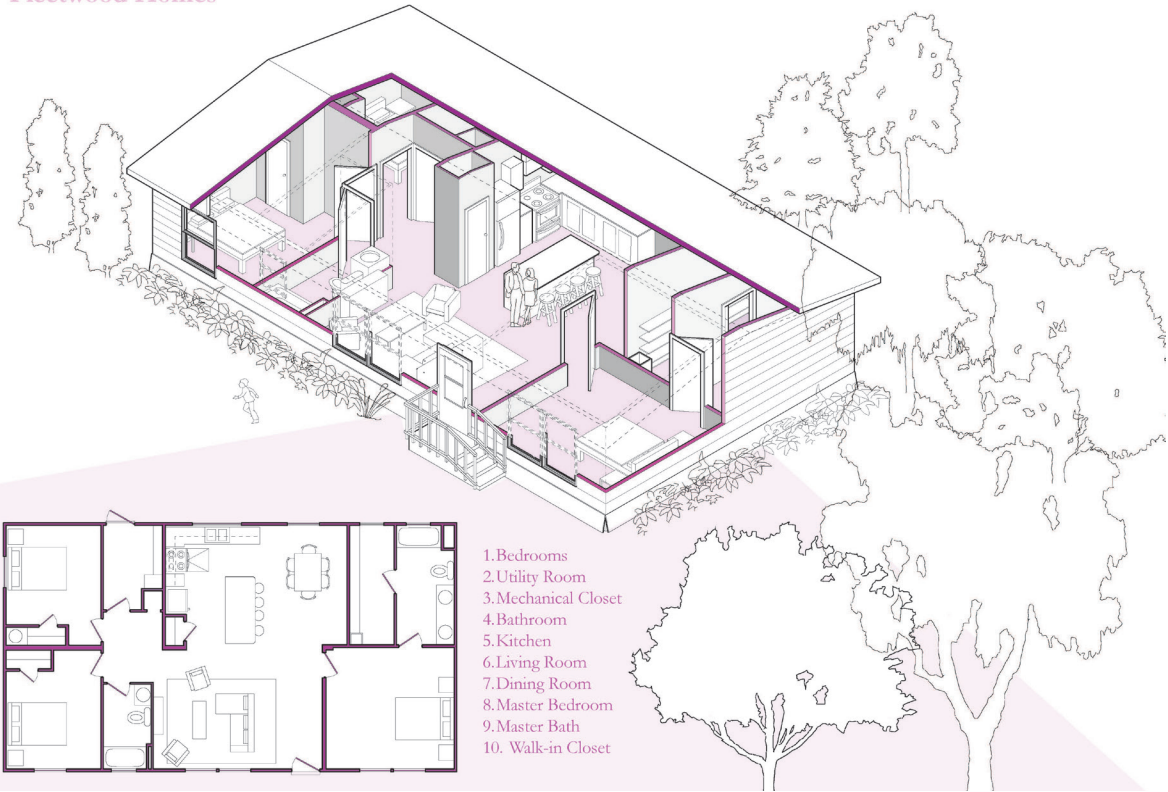
Unfolding the Module



Module Aggregations

Lyttleton *Double Wide* 2023

Fleetwood Homes

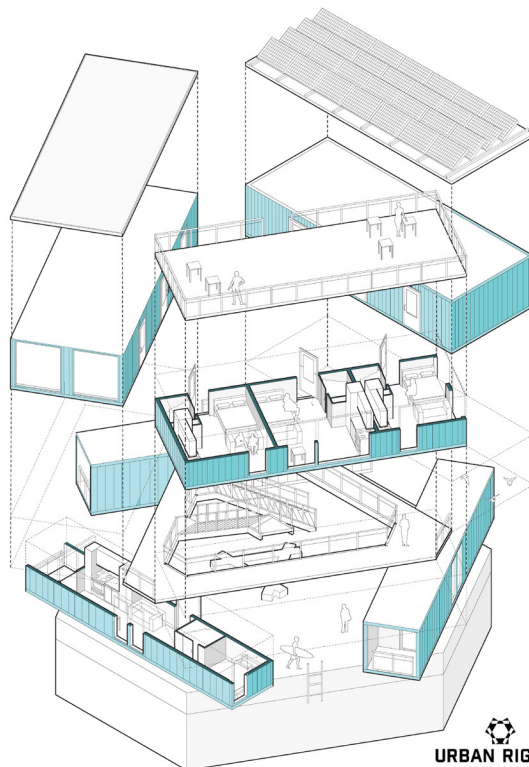
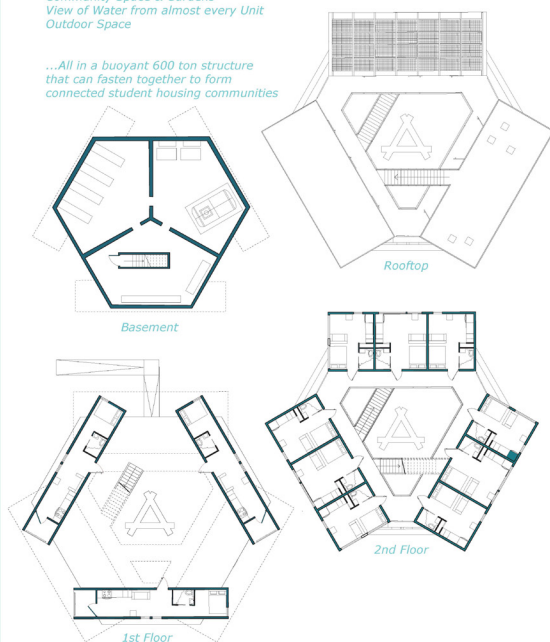


URBAN RIGGER

Connected, Conscious, Comfortable

9 Single Room Units
3 Container Units
Community Space & Gardens
View of Water from almost every Unit
Outdoor Space

...All in a buoyant 600 ton structure
that can fasten together to form
connected student housing communities



URBAN RIGGER
THE FUTURE IS FLOATING

Precedent Study Diagrams



Physical Model



03 READING REFUGE

Upham's Corner, Boston, MA

PRAXIS II: 3rd Year Studio

Spring 2024

Coordinator: Jeremy Ficca

Professor: Vicky Achnani

Individual Work

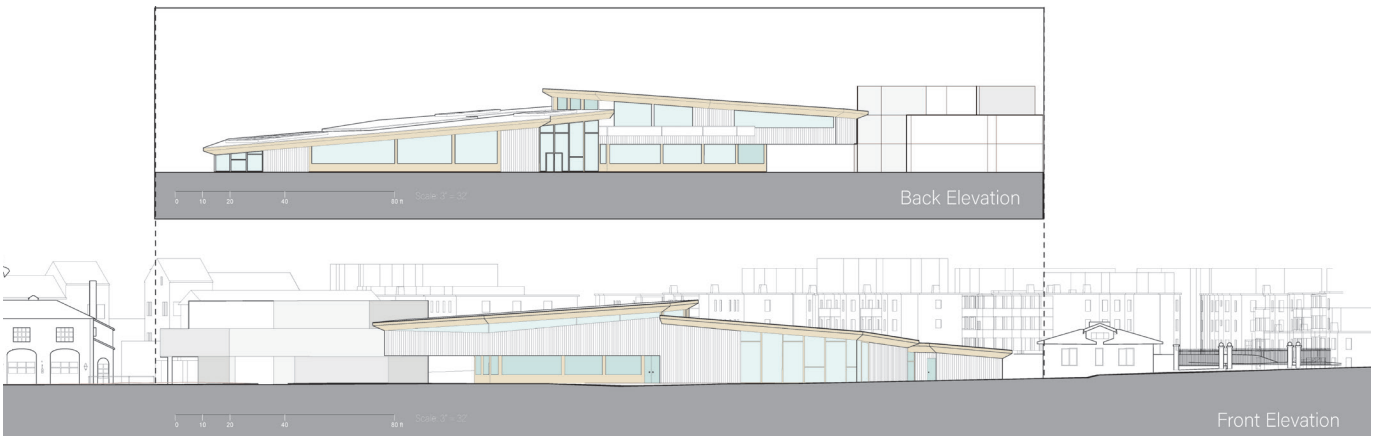
Located on the main street of Upham's Corner, this library seeks to provide a quiet refuge in the center of a bustling city. Addressing the lack of accessible green areas nearby, as well as minimal areas to step off of the sidewalk, the library's form wraps around pockets of public outdoor space, for peaceful reading and general recreation. The building's second floor drapes over a 'gateway' to the community turf behind it, drawing the community through the space, and sheltering them from the main street's traffic.



Initial site mapping showing travel distances and available green space in the center of Upham's Corner



Exterior Facade Render



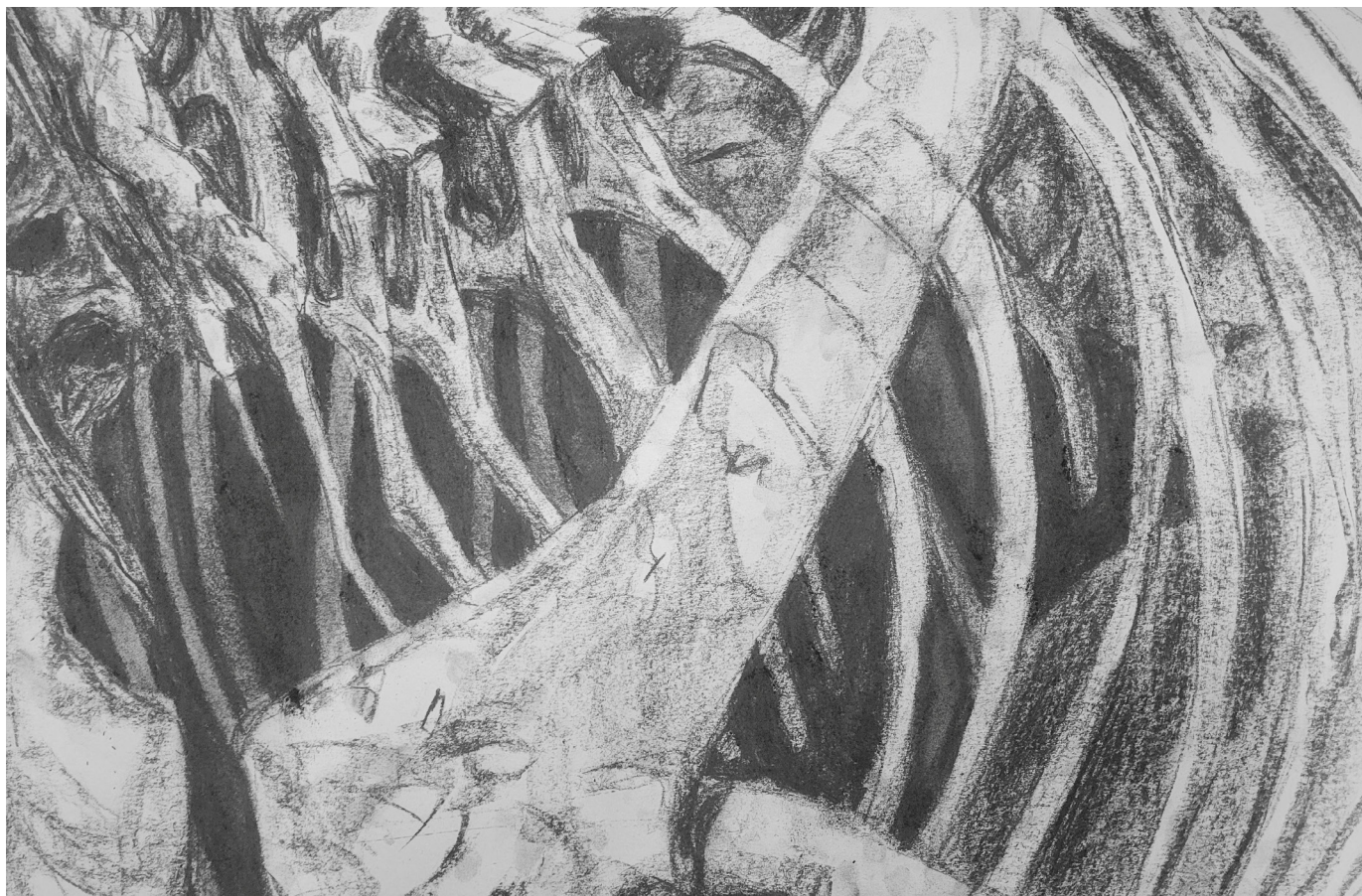
Transverse Section Perspective



Floor Plans



Physical Model



04 ANALOG DRAWINGS

HAND DRAWING WORKS EXPRESSING VALUE AND SHADOW IN VARIOUS MEDIUMS

