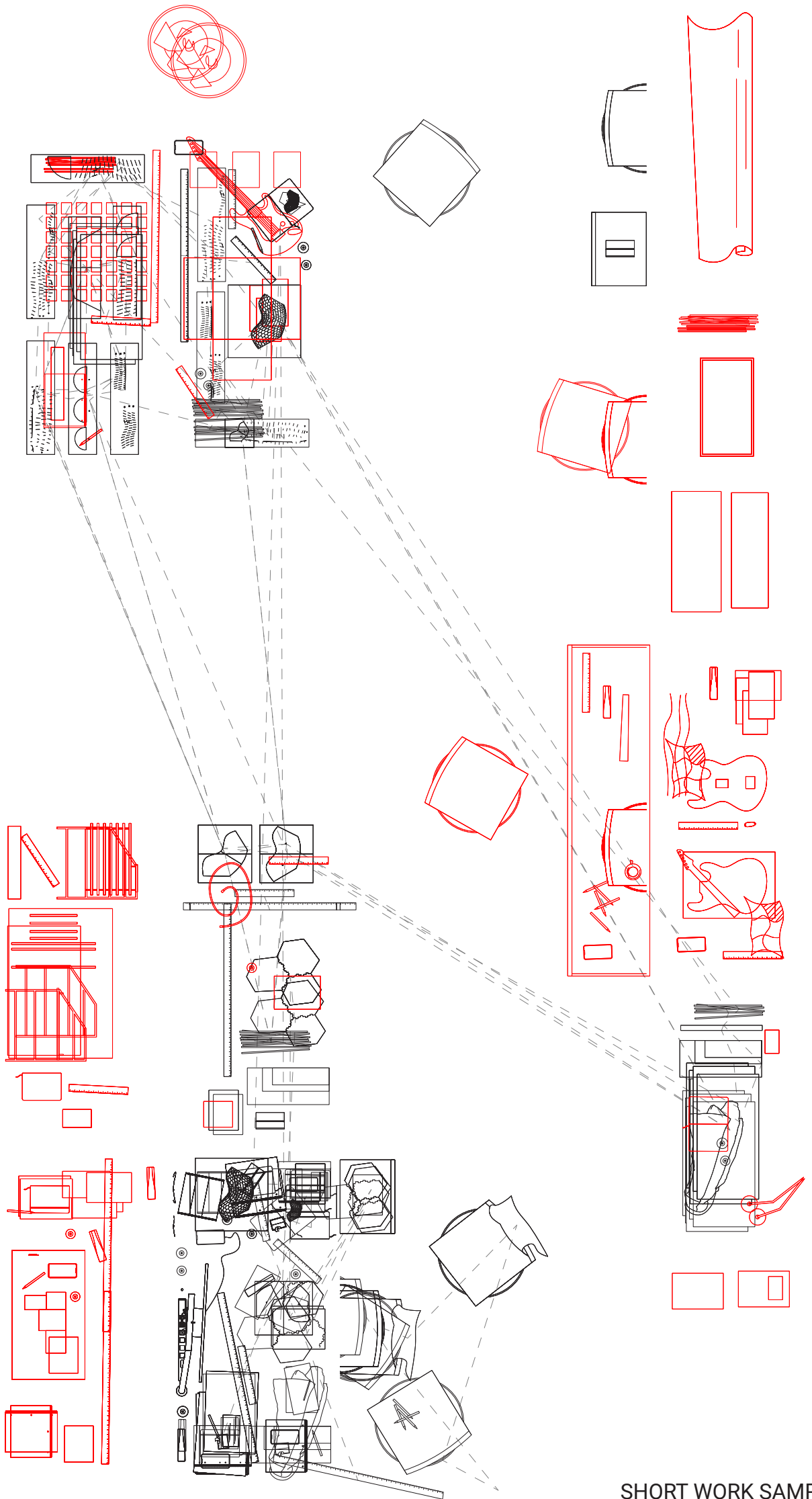


John A. Conrad

BUILDING BUILDINGS



SHORT WORK SAMPLE

TABLE OF CONTENTS

SHORT WORK SAMPLE



001

9-WEST TOWER

03

- Circular Construction
- Net - Zero carbon
- Digital Simulation

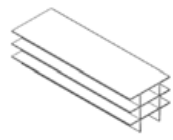


002

LEGBA CIVIC CENTER

06

- Circular Construction
- Wood Framing
- Net - Zero carbon
- ADA Consciousness



003

SENECA LIBRARY

14

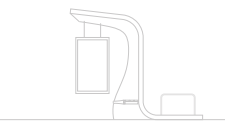
- Circular Construction
- Experimental Materials
- Digital Simulation
- Net - Zero carbon



004

WEGMAN COURT

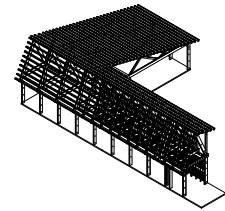
- Wood Framing
- Robotic Construction
- Digital Simulation
- Experimental Materials



005

BIO BUS SHELTER

- ADA Consciousness
- Experimental Materials
- Digital Simulation

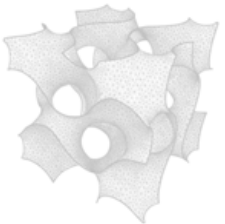


006

MARINE EDU. CENTER

17

- Wood Framing



007

3DP CONCRETE

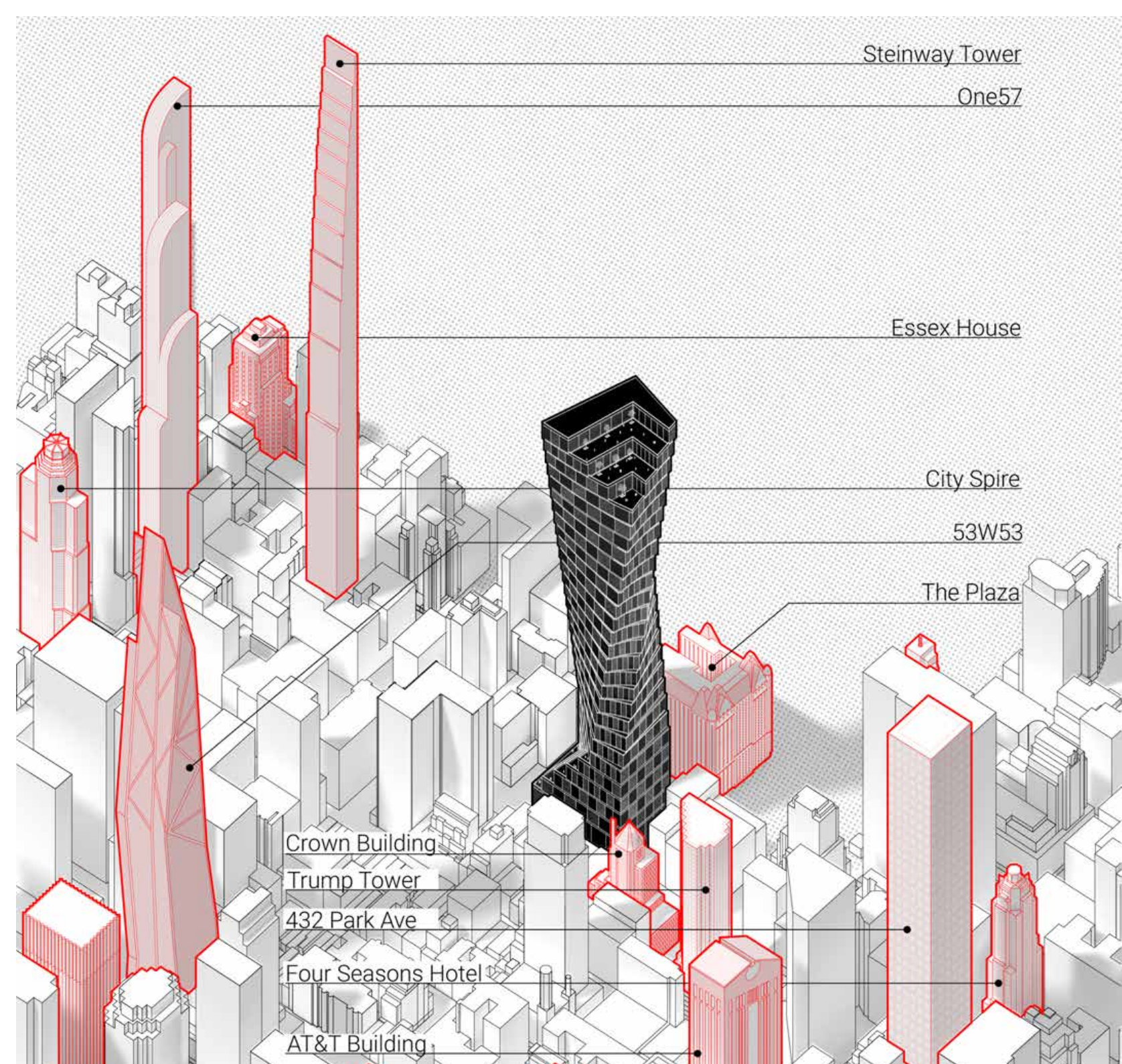
- Digital Simulation
- Robotic Construction
- Experimental Materials



008

ARCHITECTURAL PHOTOGRAPHY

Work Experience
Shenzhen, Zhongshan

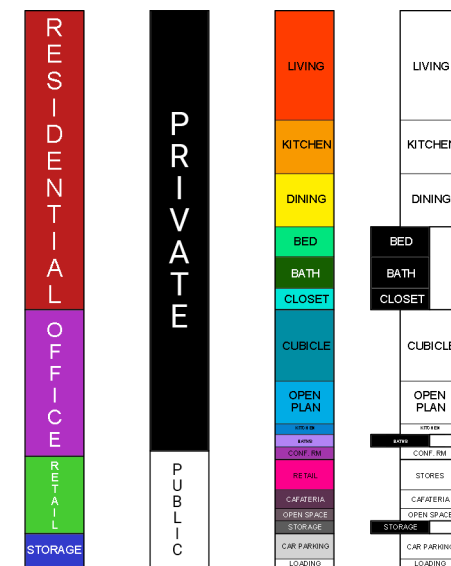


9-West Tower

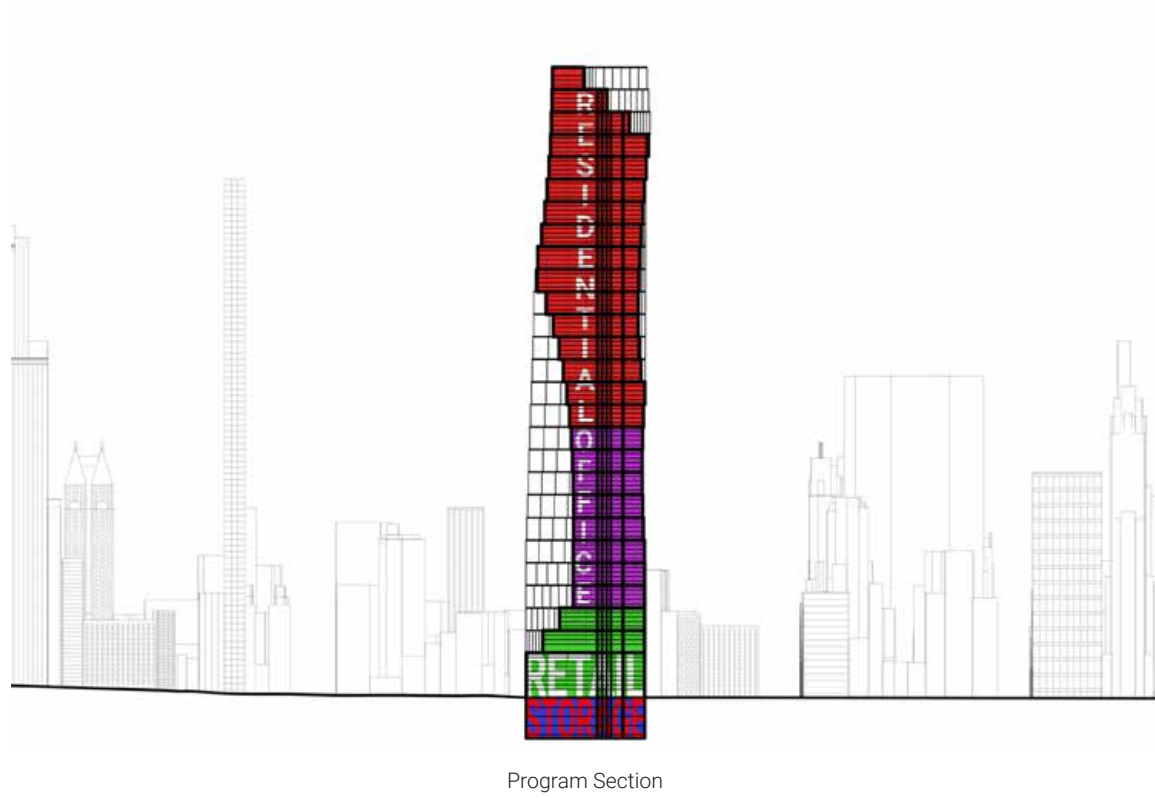
001

Year: Spring, 2022
Team: Sole Designer
Type: Academic, personal exploration
Role: Graphics, Design, Renderings, Models
Program: Mixed use tower
Location: New York, NY

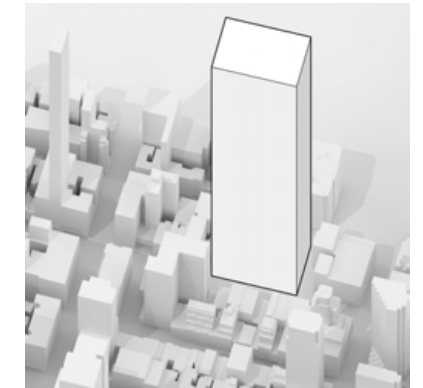
9-West has been devised as a net-zero super-tall skyscraper, adjacent to daily amenities such as markets, restaurants, and hospitals. Designed to bend shadows away from central park and point solar panels towards the sun, 9-west is capable of producing more energy than it spends through the use of strategic photo-voltaic panel placement, combined with green roofs and efficient wall assemblies.



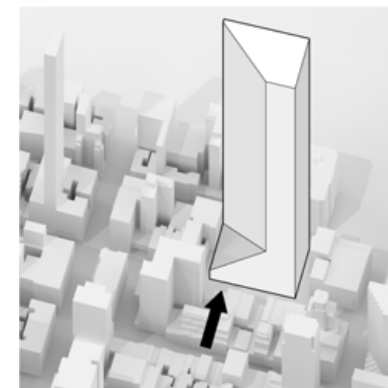
Summer Temperature Map



Site Limits



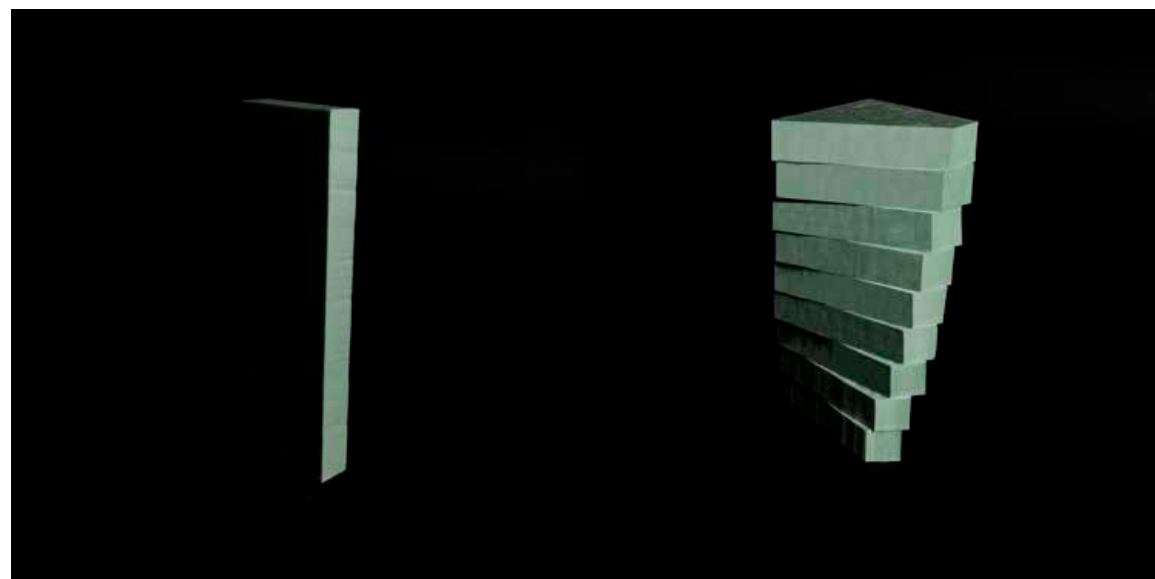
Zoning Height Limit



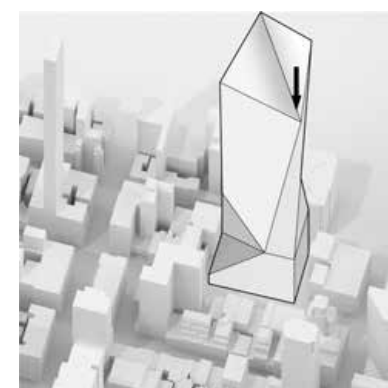
Dining Area Daylighting



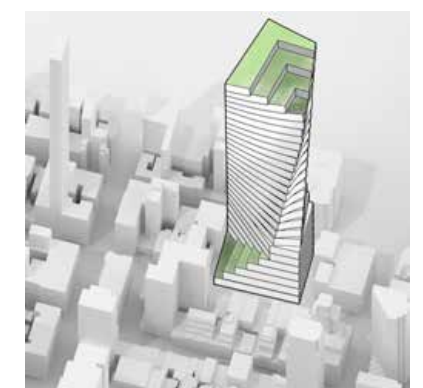
View and Solar Optimization



Foam Concept Model



Solar Panel Optimization



Net-Zero Skyscraper

Final Concept Production

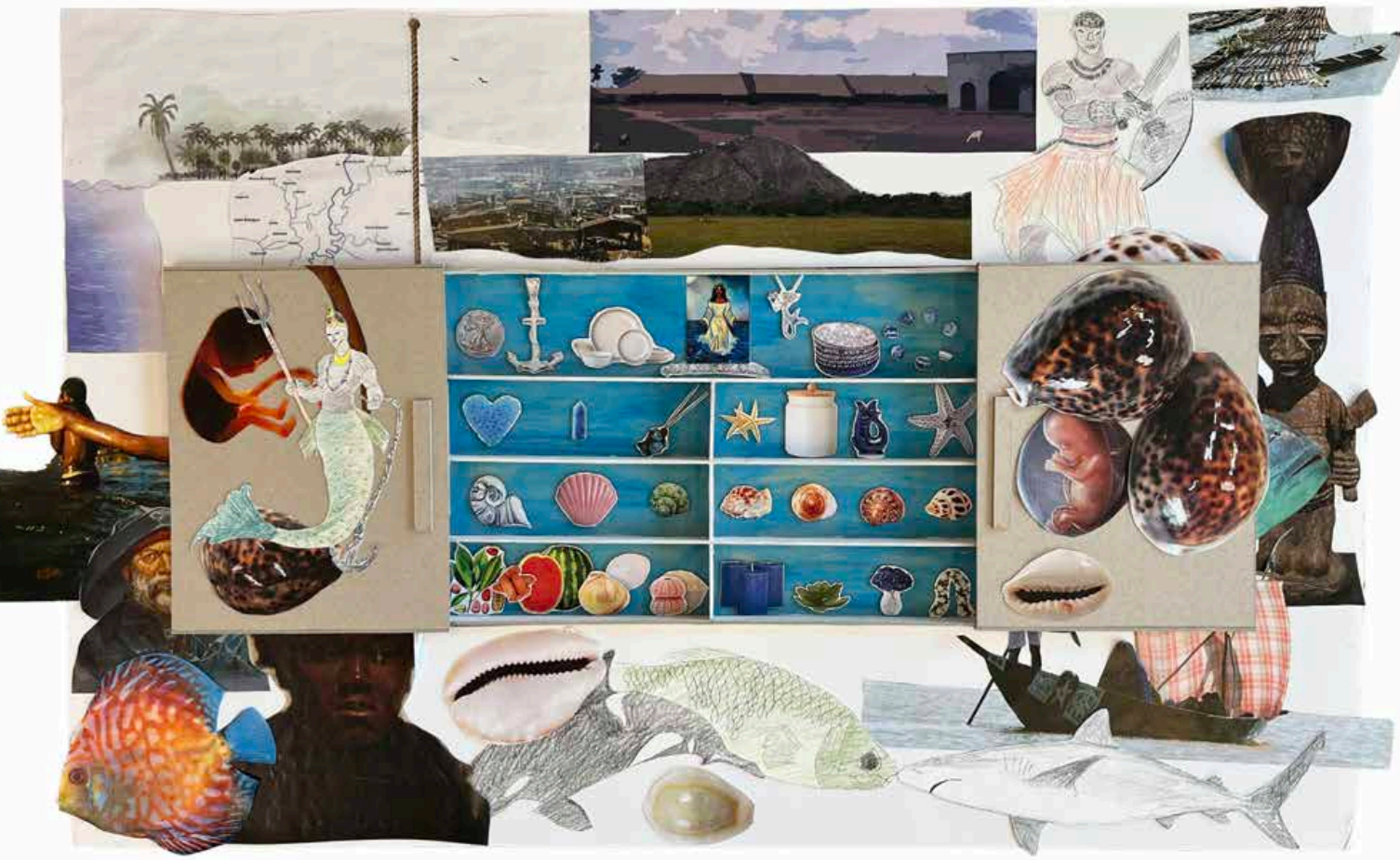


Residential Rendering



Residential Plan Drawing





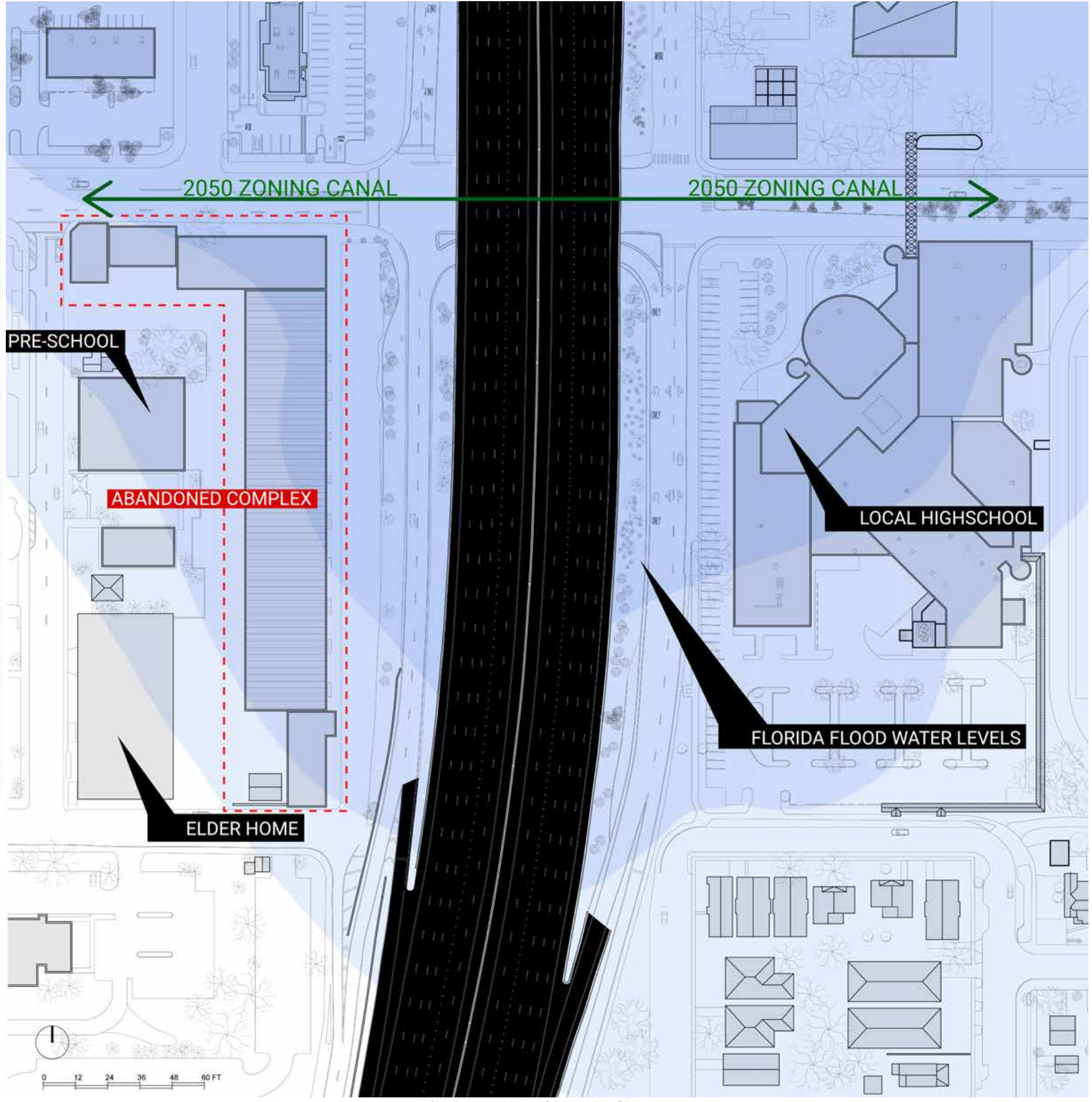
Collage of African Community Values, "Cabinet of Curiosities"

Legba Arts Center

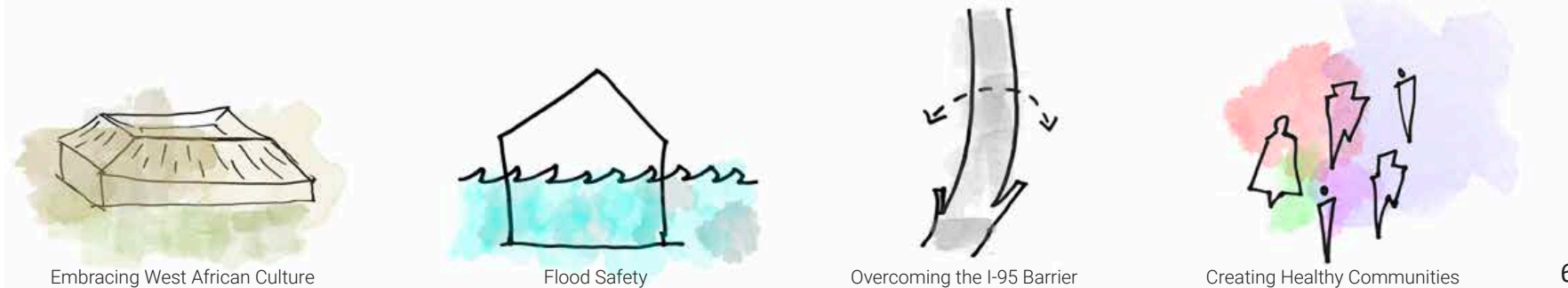
002

Year: 2023
 Team: Sole Designer
 Type: Academic Project
 Program: Cultural arts center
 Location: Miami, Florida

Designed across the I-95 Barrier dividing Little Haiti and Liberty Square, this cultural arts center is meant to provide education to children grades K-12 in African Trans-Atlantic Diasporic culture. In particular, this center is designed to engage with the local Caribbean and Black Atlantic communities. The project is partly an artists residency, combined with additional program for seniors who bear African traditions, knowledge, and wisdom. This civic center provides a woodshop, digital fabrication lab, as well as apartments and studios for visiting artists, in addition to teaching spaces, archives and libraries for public education.



Site Opportunities and Constraints Diagram

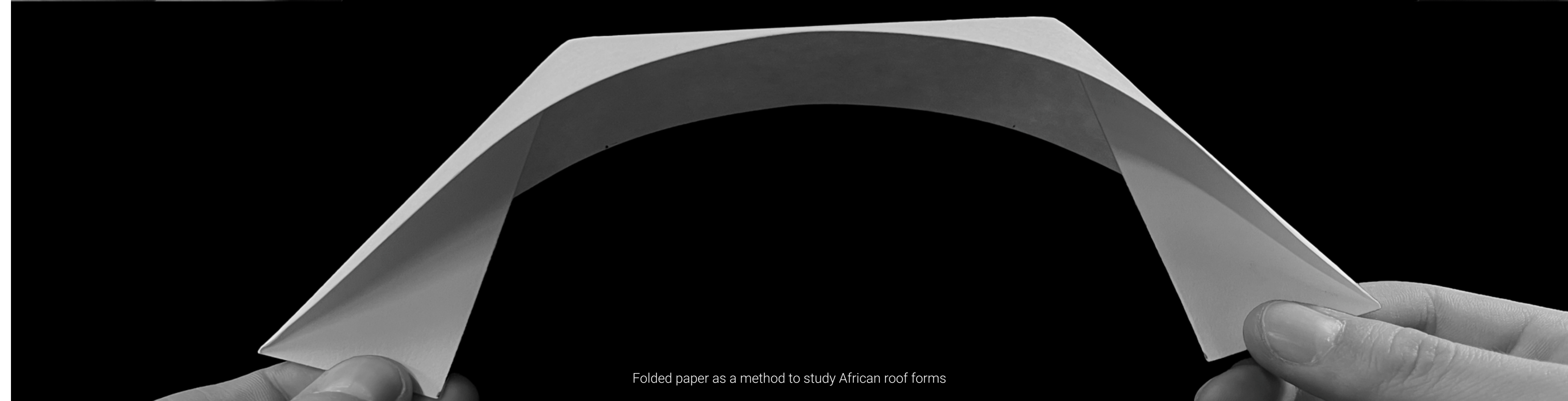
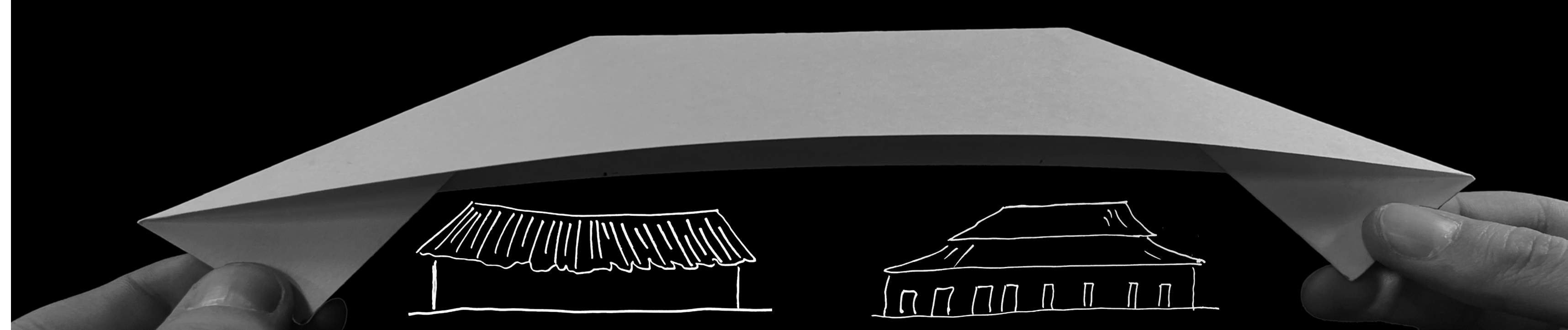
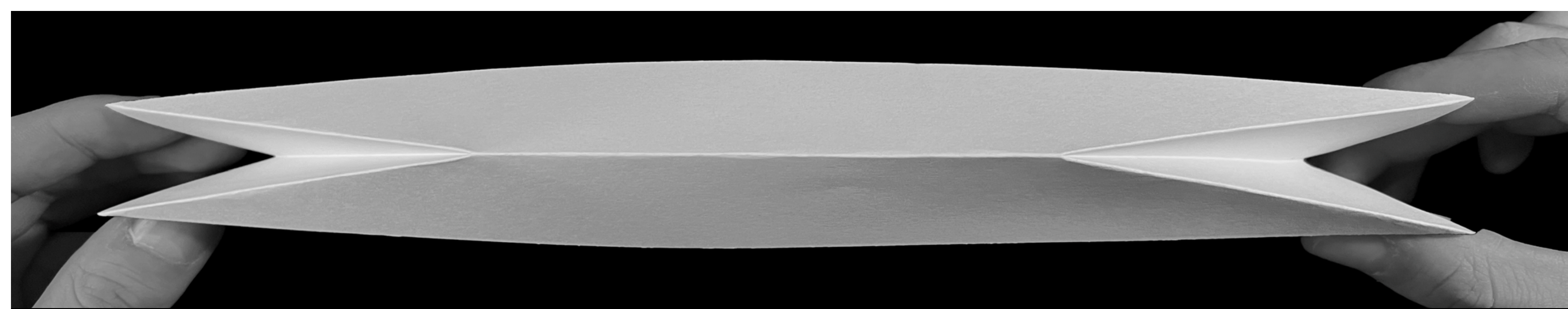


Embracing West African Culture

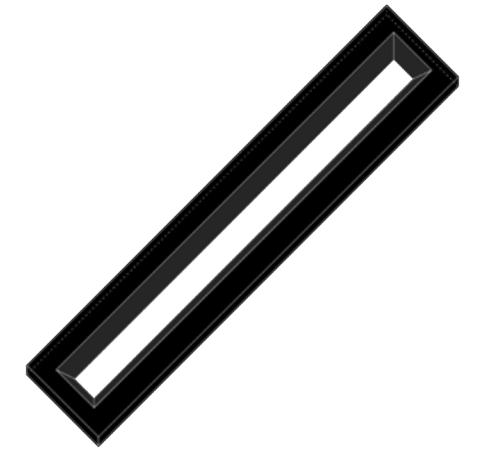
Flood Safety

Overcoming the I-95 Barrier

Creating Healthy Communities



Folded paper as a method to study African roof forms



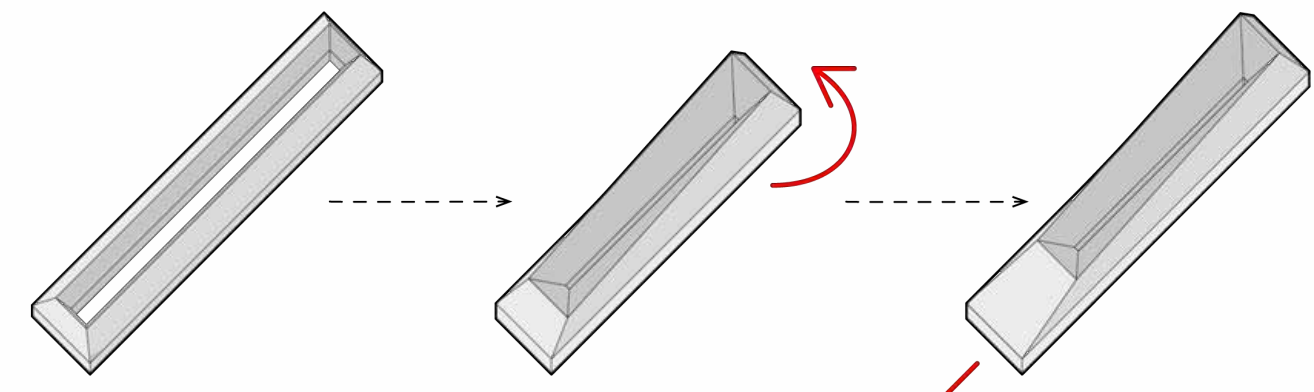
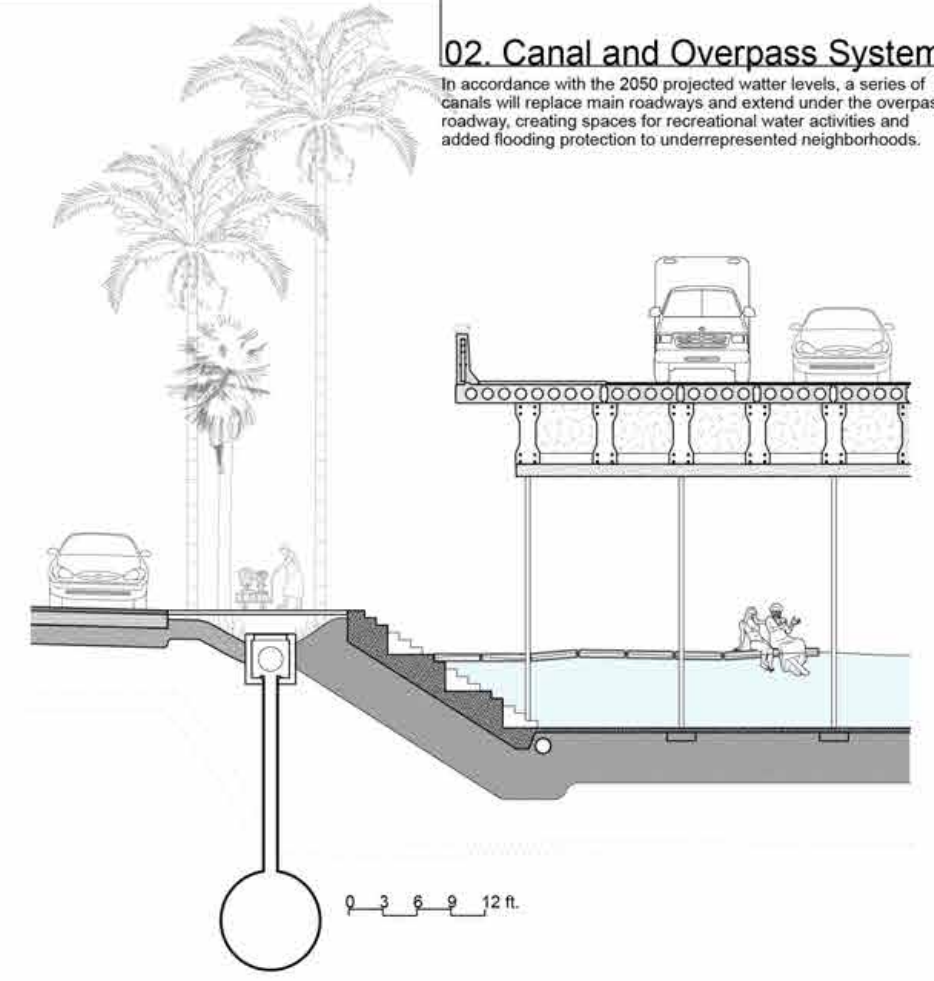
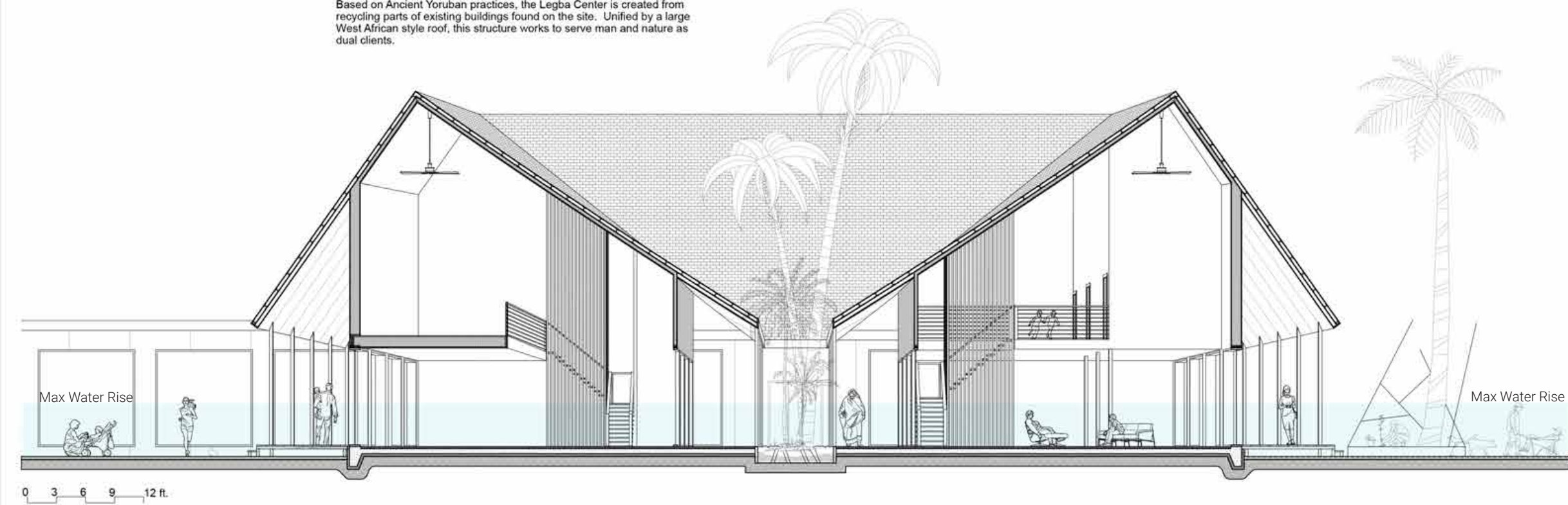


01. Renovated Storage Building

Based on Ancient Yoruban practices, the Legba Center is created from recycling parts of existing buildings found on the site. Unified by a large West African style roof, this structure works to serve man and nature as dual clients.

02. Canal and Overpass System

In accordance with the 2050 projected water levels, a series of canals will replace main roadways and extend under the overpass roadway, creating spaces for recreational water activities and added flooding protection to underrepresented neighborhoods.



Yoruban roof Lift front end to match overpass slope Extend to create porch

Final Roof Design Moves



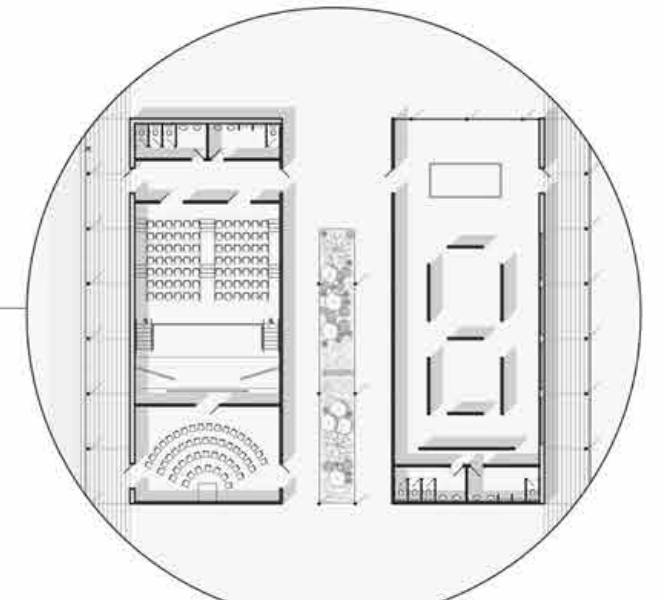
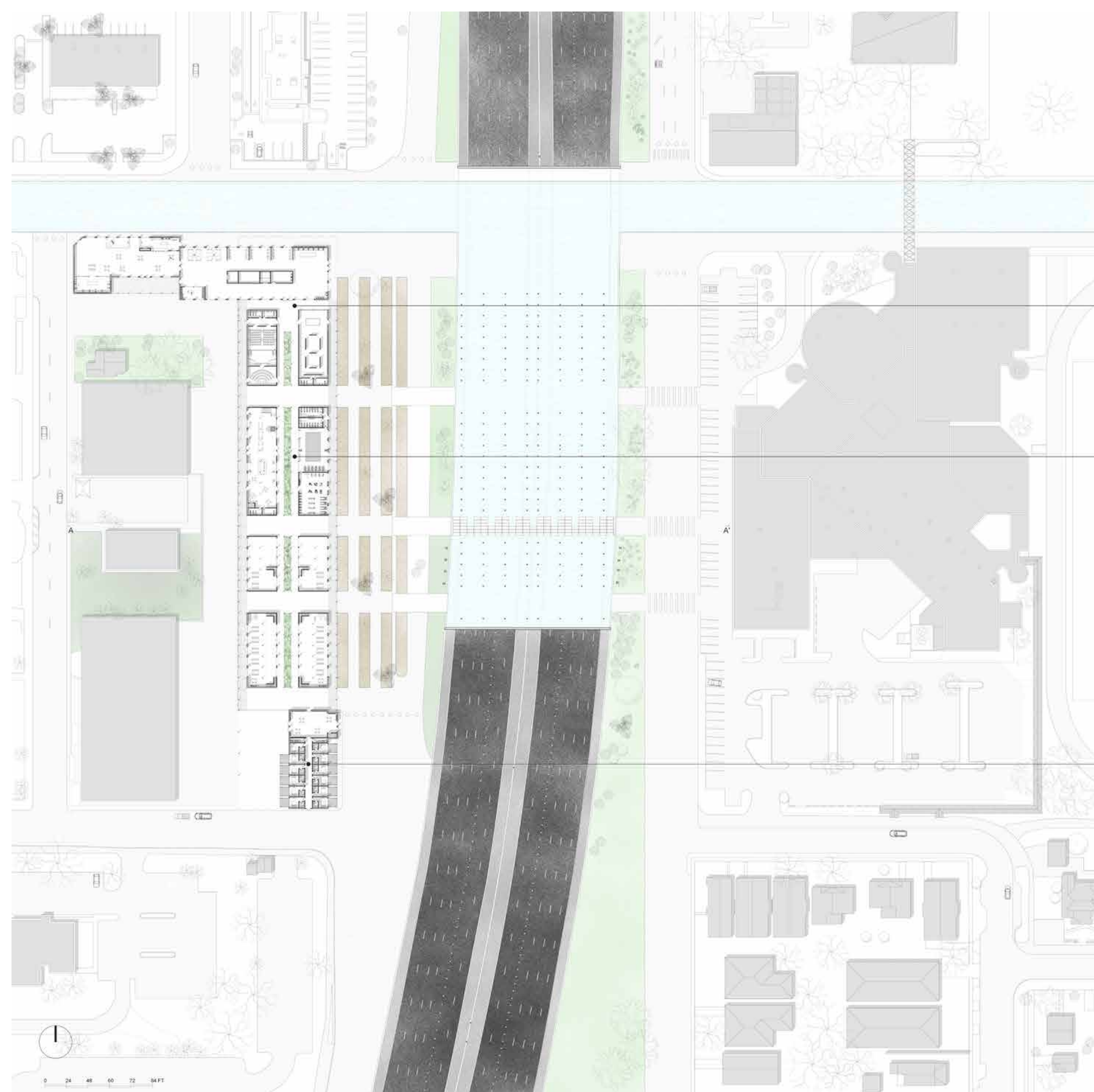
Situated as a bridge for a divided community



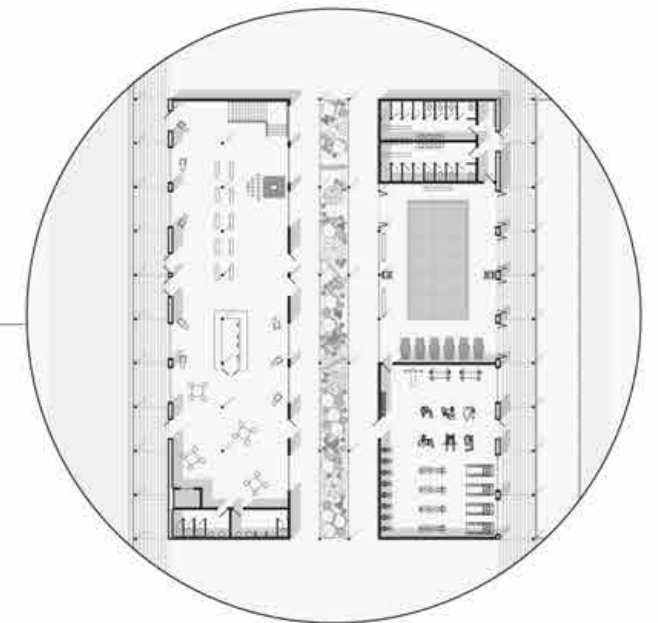
Renovated storage building becomes elder housing



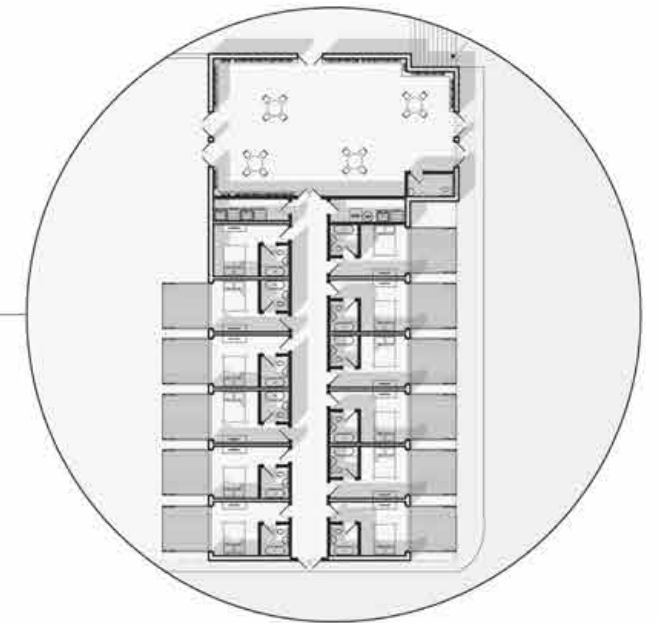
Building collaborates with adjacent small businesses such as Sheyes of Miami Daycare



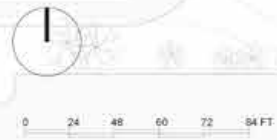
Auditorium and exhibition buildings



Gymnasium and classroom spaces for all ages



Elder housing includes folding deck spaces for privacy and recreation





01 Recycled Steel Beam Roof

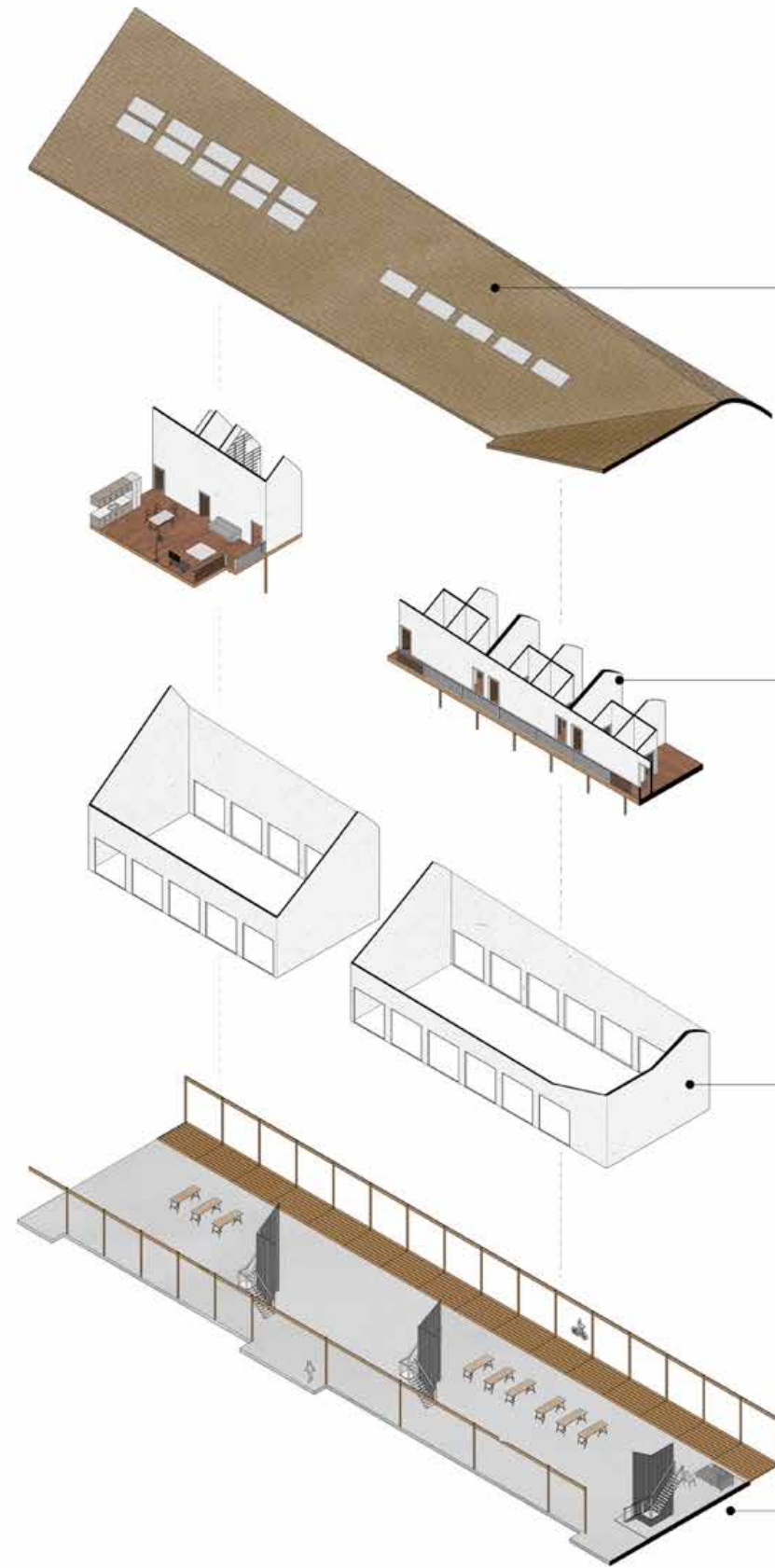


02 Residential program

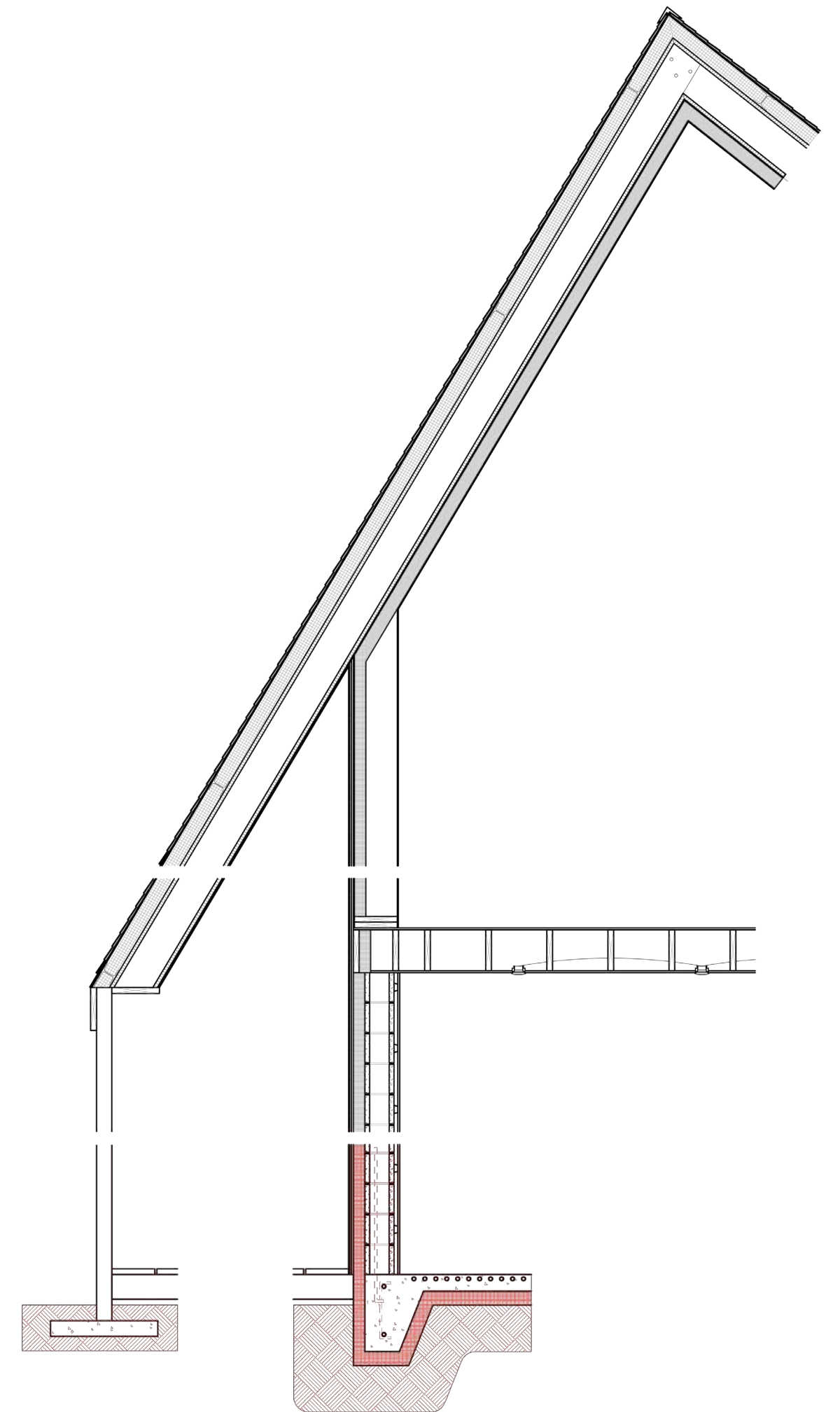
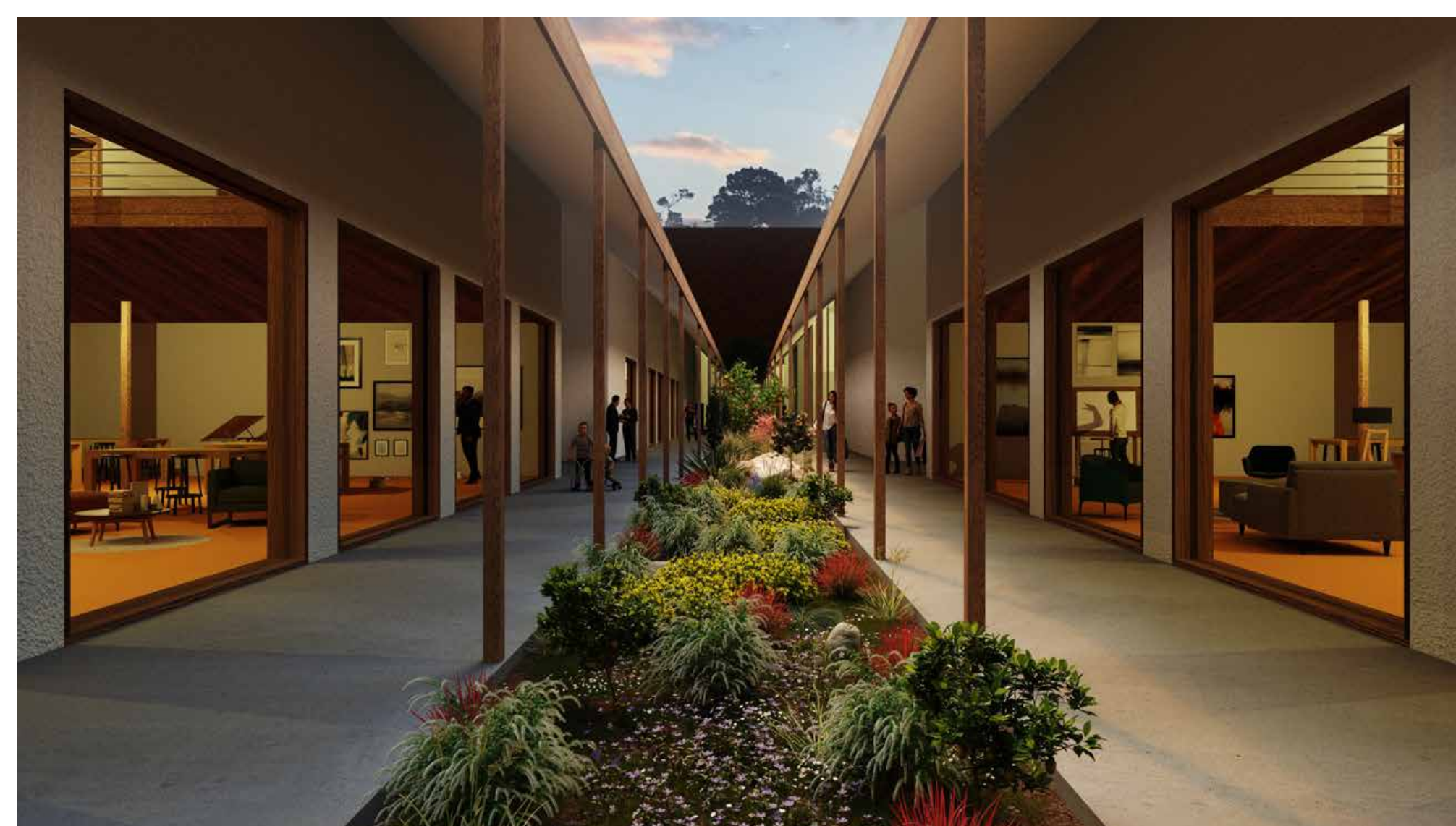


03 Recycled exterior walls

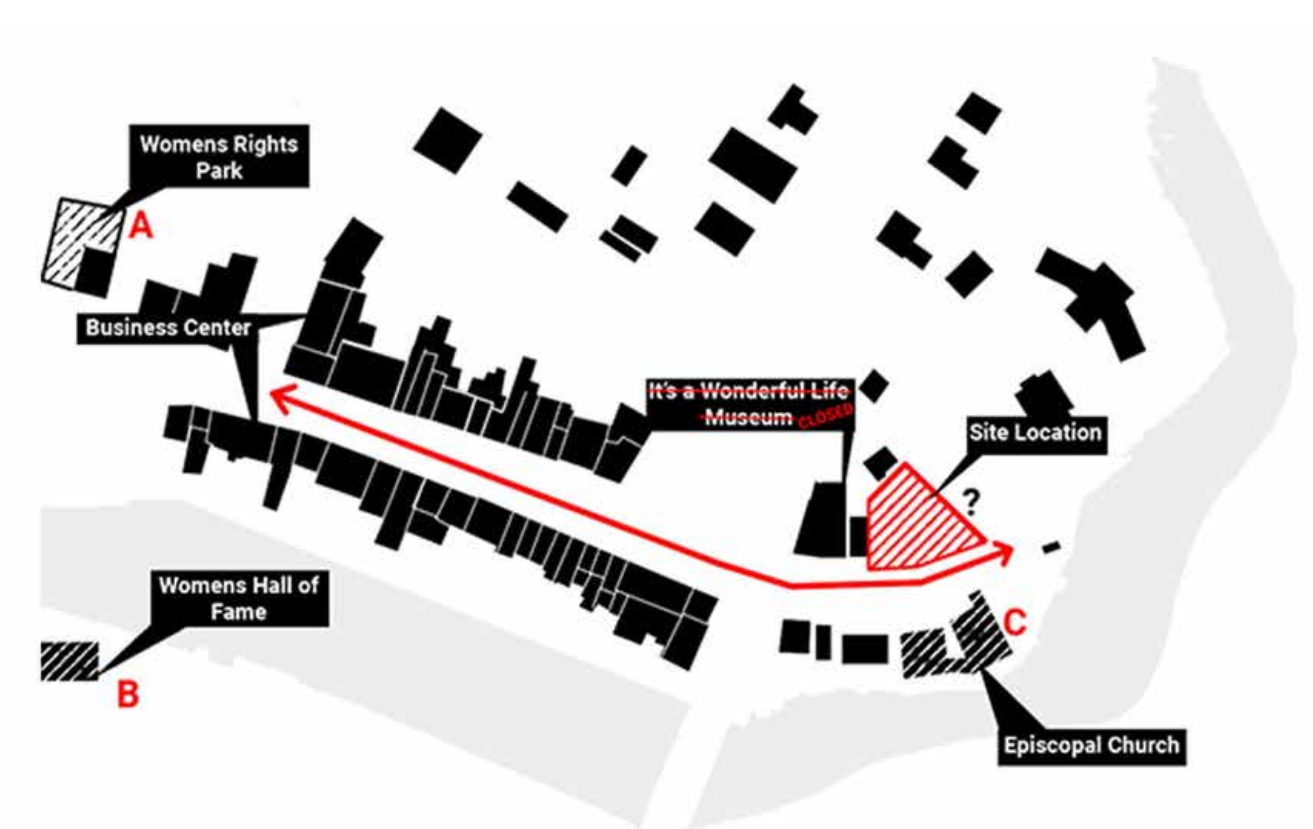
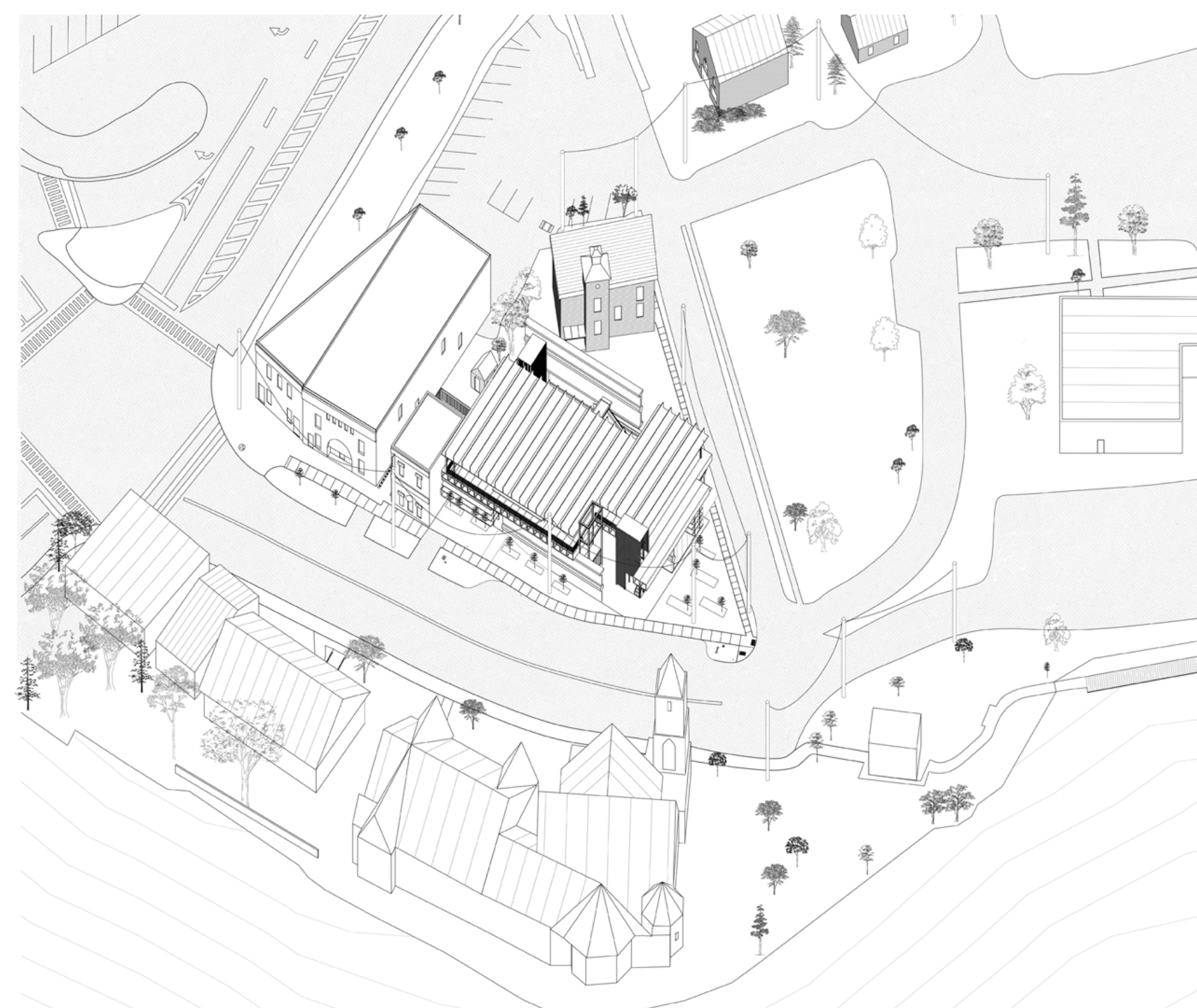
04 Passive Climatic Elements



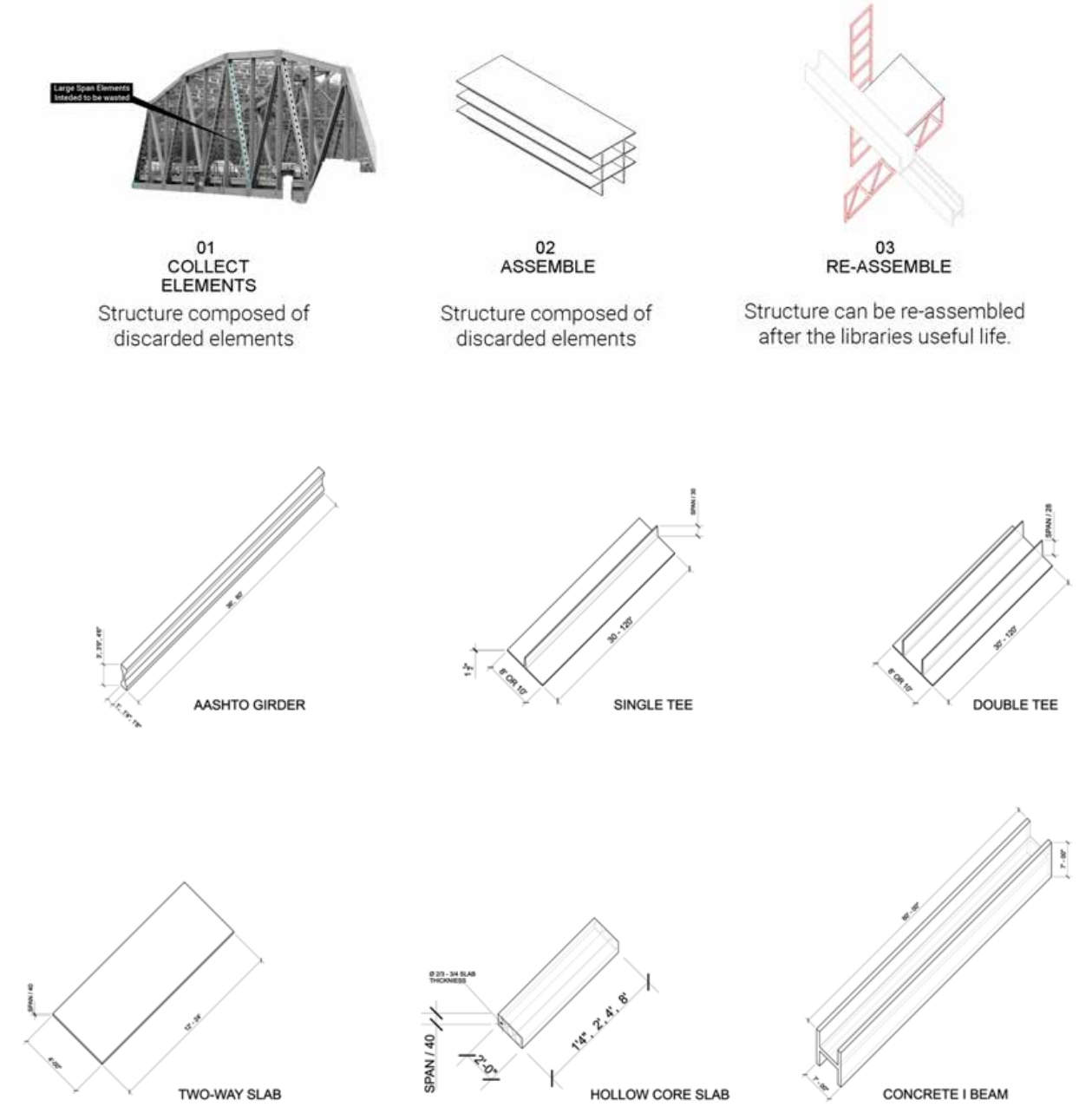




Refurbished wall assembly highlighted in red



Seneca Falls is in desperate need of a new tourist attraction. At the same time, New York's bridges are in serious disrepair and must be replaced.



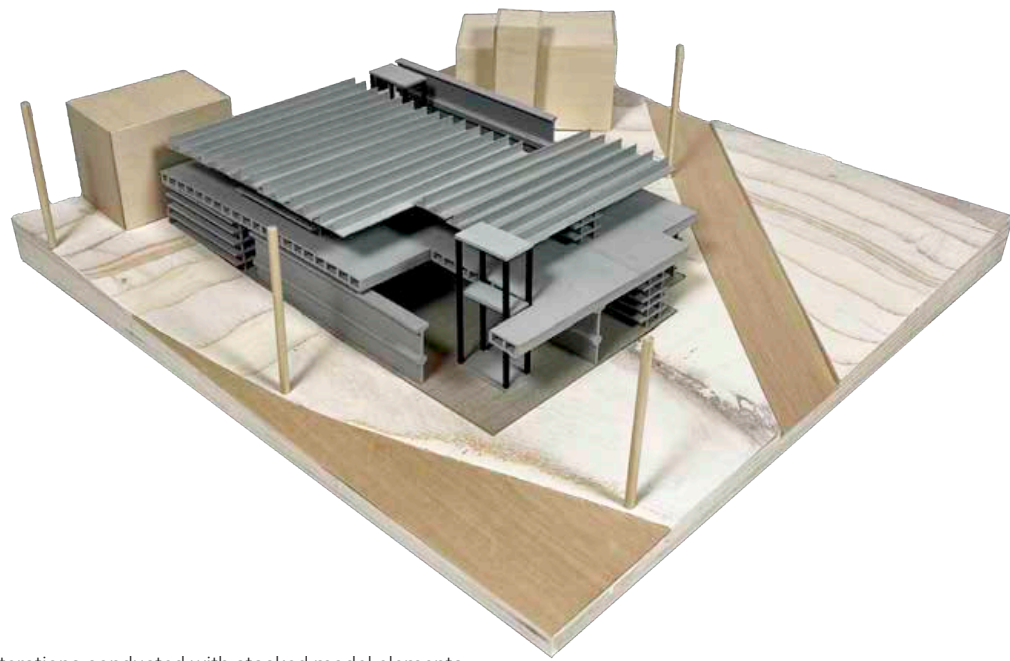
Seneca Library

003

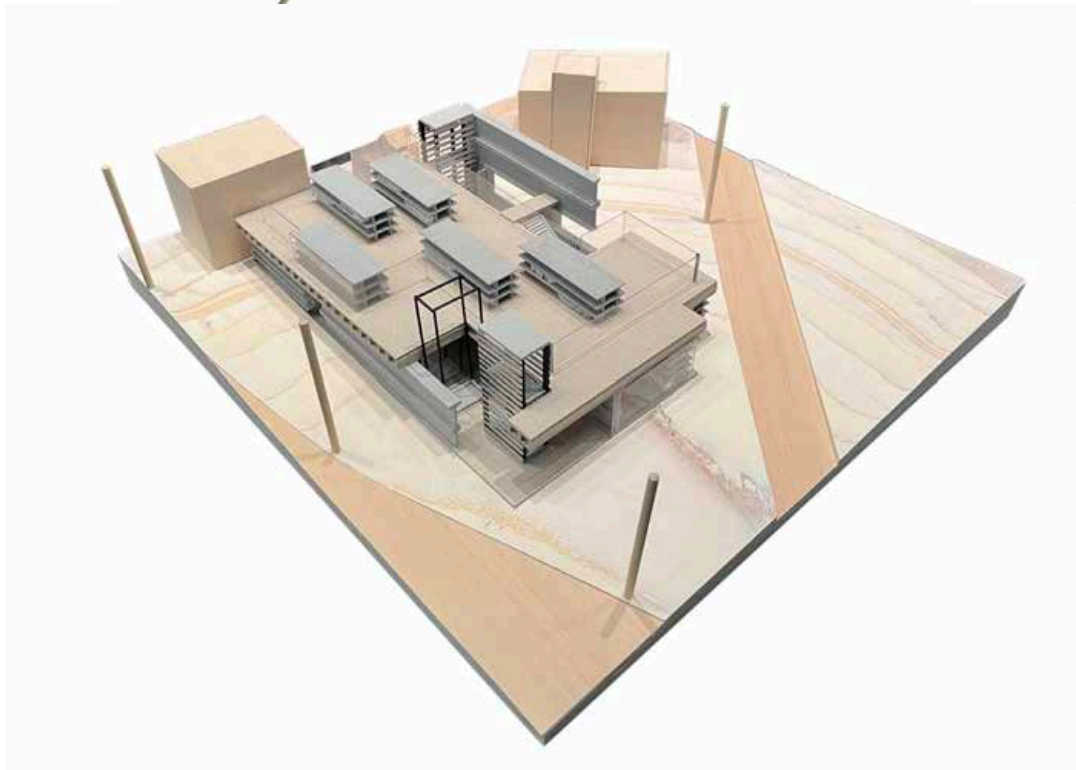
Seneca Falls was once a large tourist attraction as the birthplace of the women's rights movement in 1848. In 1946 the town was the location of the hit movie "It's A Wonderful Life." Today, Seneca Falls is seeing a rapid decrease in visitors. Our proposal extends the history of Seneca Falls by constructing a library composed only of recycled infrastructural elements and waste parts.

At the end of this branch library's practical existence, it is designed to be disassembled, with its constituent parts and pieces re-introduced to the material economy.

Year: Spring, 2022
Team: Sole Designer
Type: Academic Project
Role: Graphics, Design, Renderings, Models
Program: Library
Location: Seneca Falls, New York



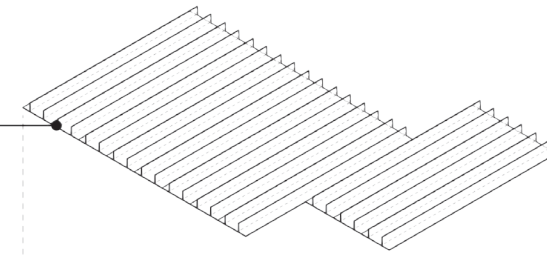
Design iterations conducted with stacked model elements



Final Model contains books, furniture, and windows.

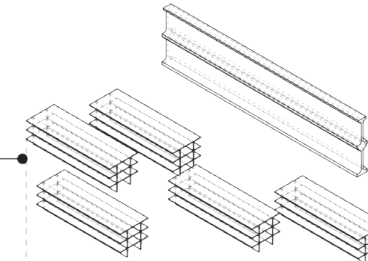
ROOF

Double-T precast beams aligned to support loading and solar panels.



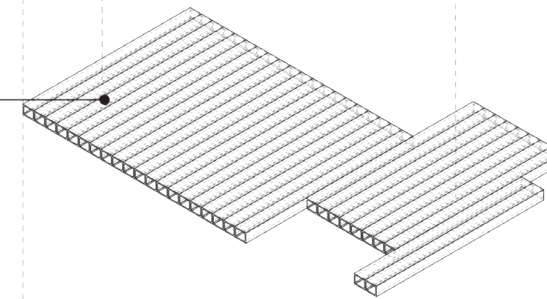
COLUMNS

Double-T beams are stacked orthogonally into book-shelf components.



FLOOR SLAB

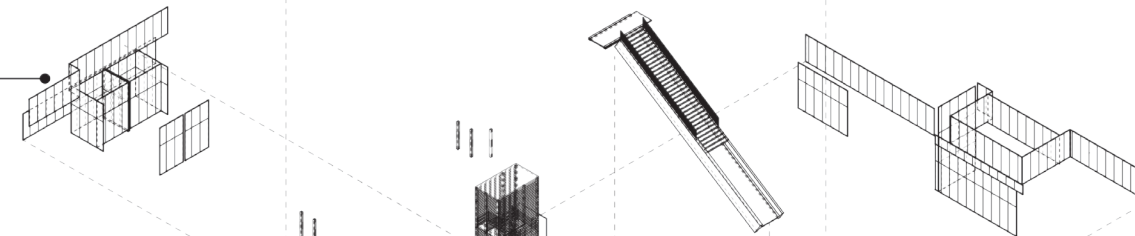
Arrayed and interlocked Box-Girders support electrical, plumbing and HVAC components.



02 SECOND FLOOR

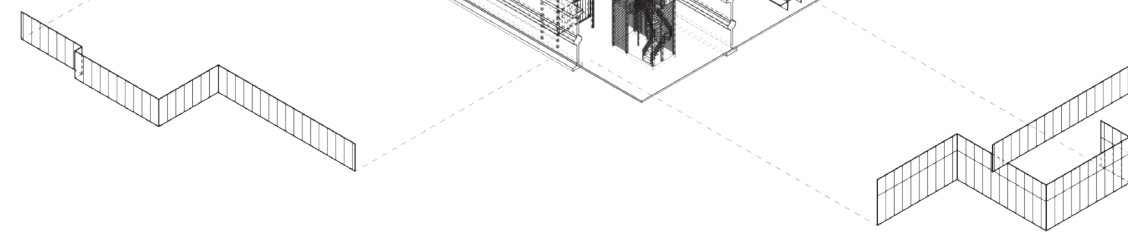
GLAZING

Floor to ceiling insulative glazing.

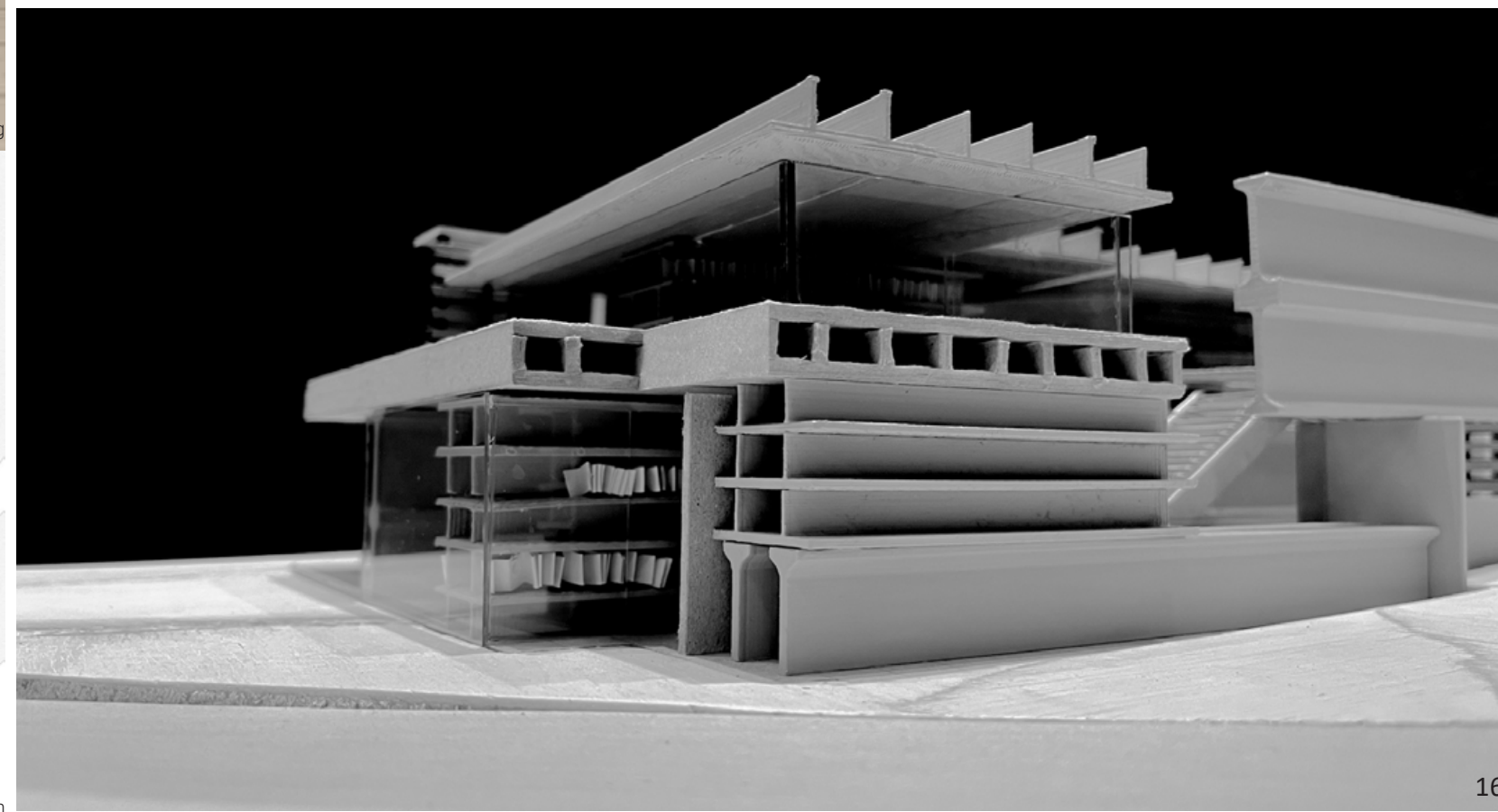
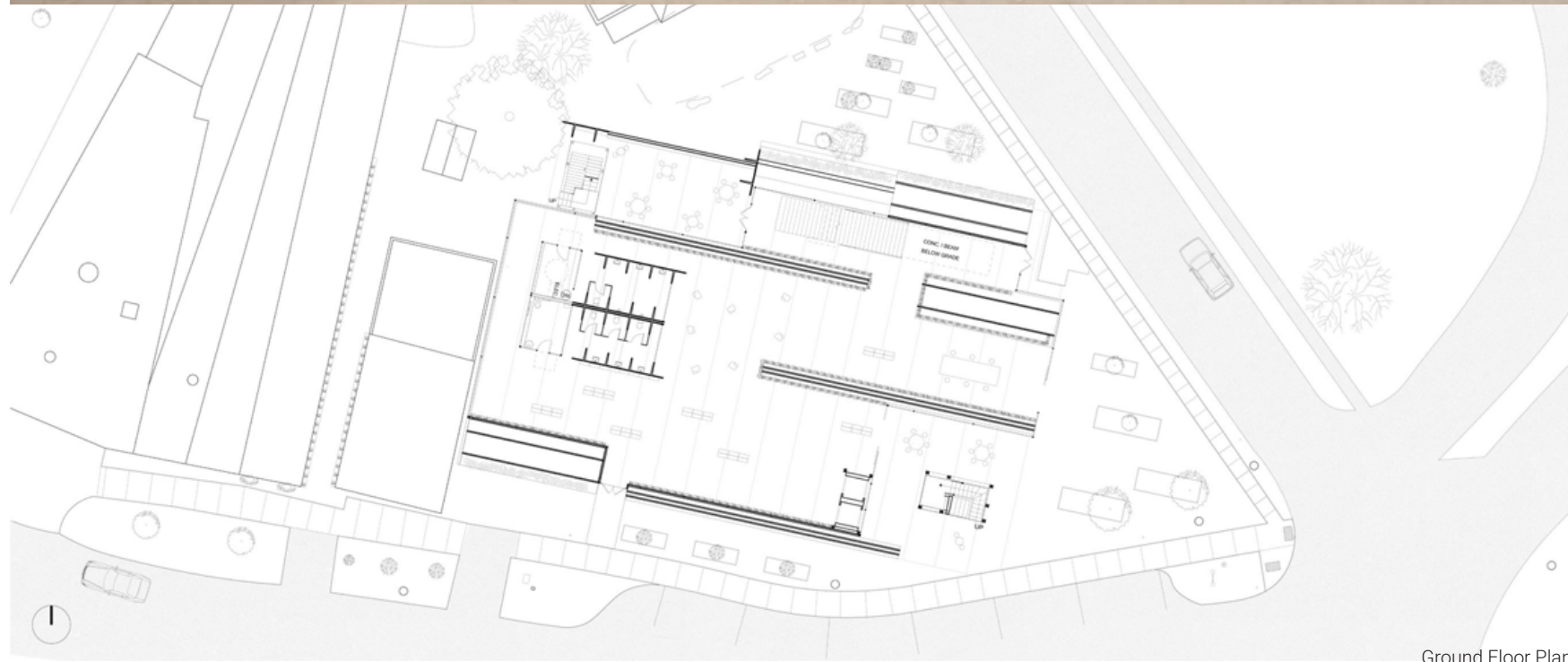
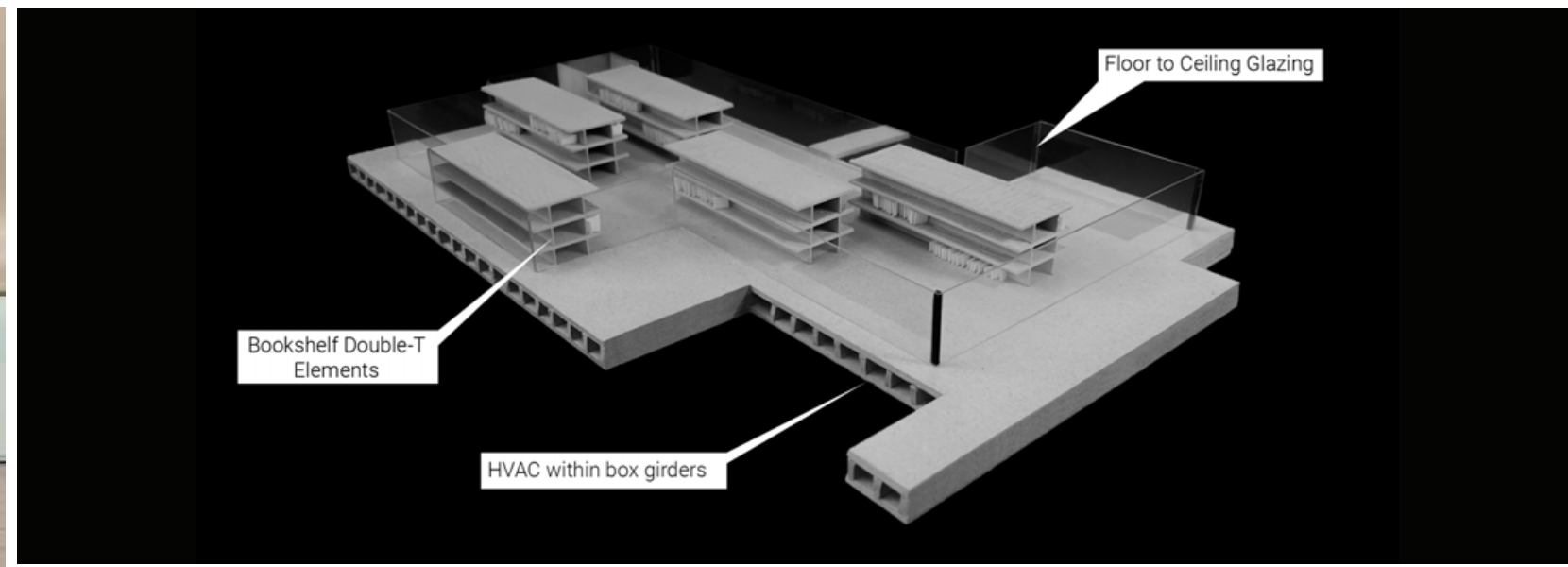
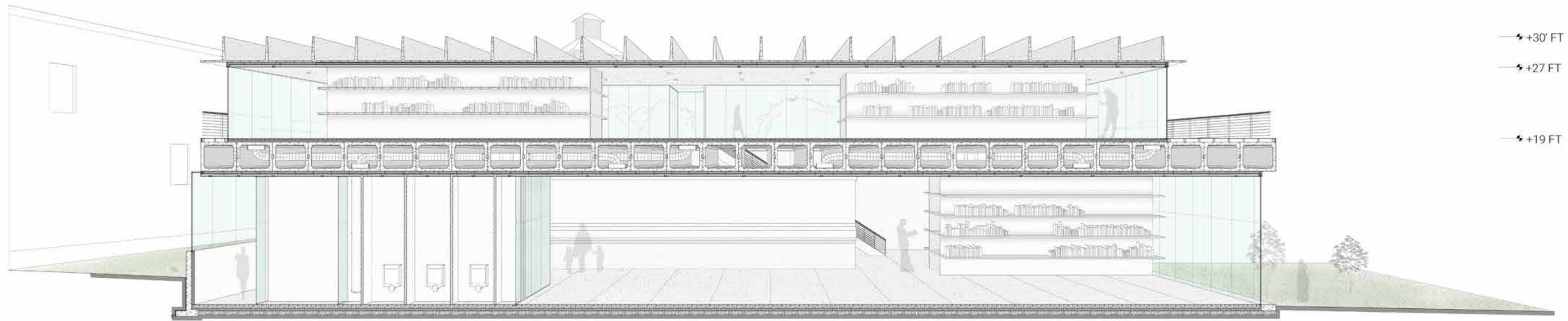


FOUNDATION

Foundational support from I-beam elements buried 4'-00" below grade.



01 GROUND FLOOR





Marine Education Center

006

Year: Fall, 2021

Team: Myself, Trang Nguyen, Marina Morgan

Type: Academic Project

Role: Model Maker, organizer, planner. Created wood elements and model parts, metal connections, etc.

The Marine Education Center project was a structural analysis model undertaken between myself and two other student colleagues.

My personal contributions included scheduling, ordering materials, cutting wood and metal elements, as well as assembly and finish of cut and measured materials. As a model-maker I participated in all parts of the process.



