

PAULA T.  
STODDARD  
SOTOMAYOR

ARCHITECTURAL PORTFOLIO

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# 01 [RE] SHAPING : BUSHWICK INLET

WASTE MANAGEMENT | WELLNESS CENTER

WAST[ED] EVENT SELECTED WORK



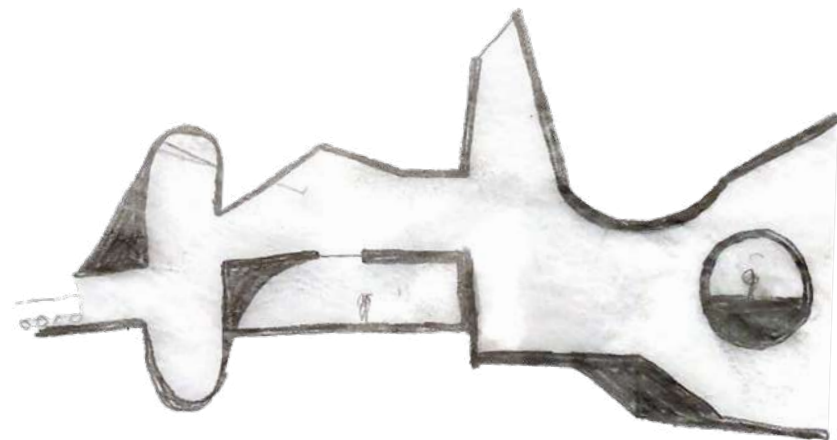
Within the paradoxical convergence of a waste management facility and a wellness center, this project explores the nuanced behavior of lines; each uniquely receptive to its programmatic and spatial relationships. Embraced within this framework, it rethinks and cultivates a journey that sparks contemplation by juxtaposing interior purity with a waste management center. Visitors seamlessly navigate through layers of contrasting worlds, experiencing an interplay of scales, from the industrial to the personal. Considerations of site dynamics such as floodplain dynamics, solar exposure, and ground treatment ensure seamless integration with the natural landscape, while a permeable first level fosters connectivity with the surrounding parkland. Gestural elements and a reverence for the human scale invite introspection, unveiling the intricate relationship between context and industrial scale. The program serves as a landmark, beckoning exploration and dialogue about the intersection of the urban fabric and waste management practices.

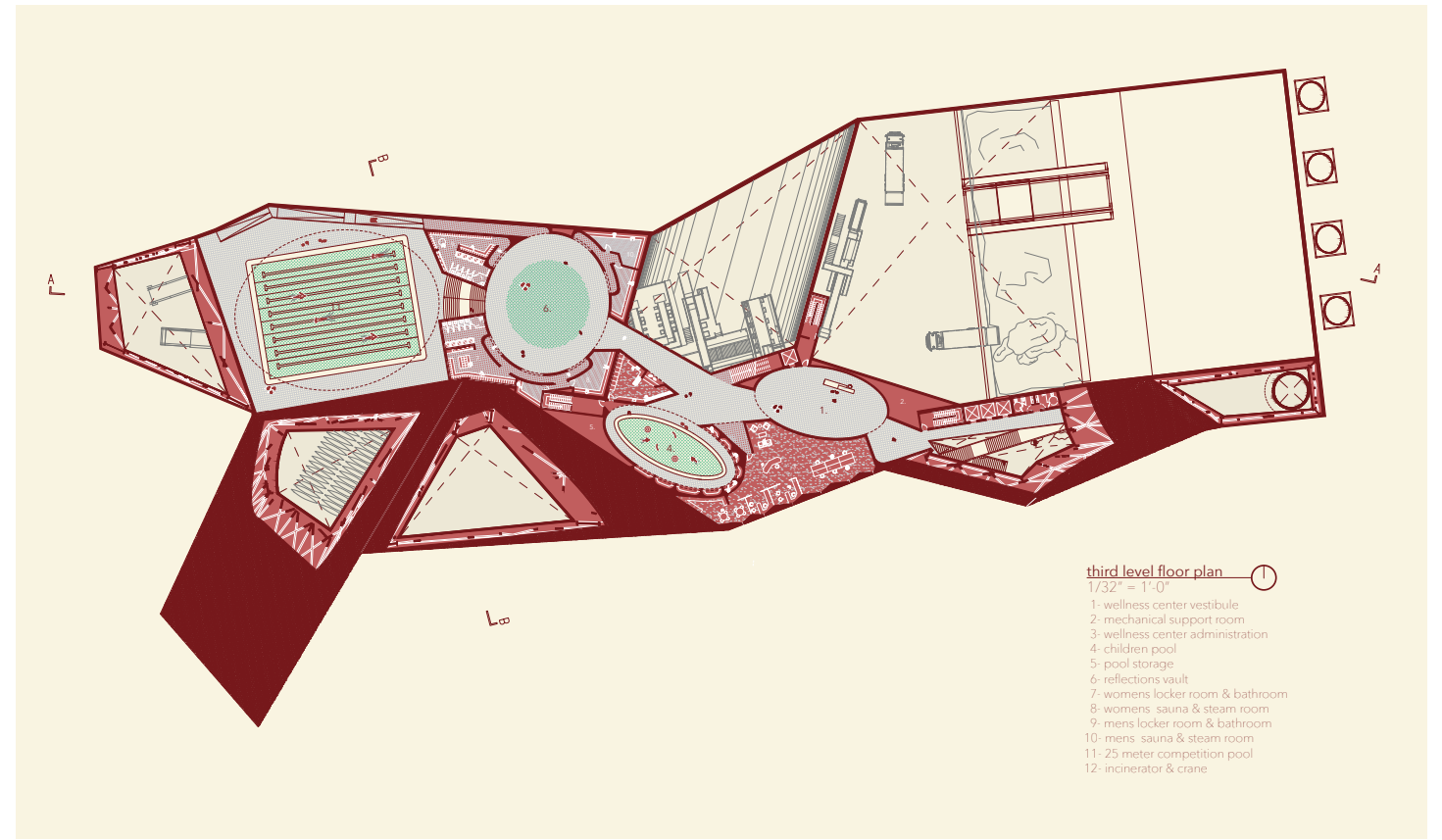
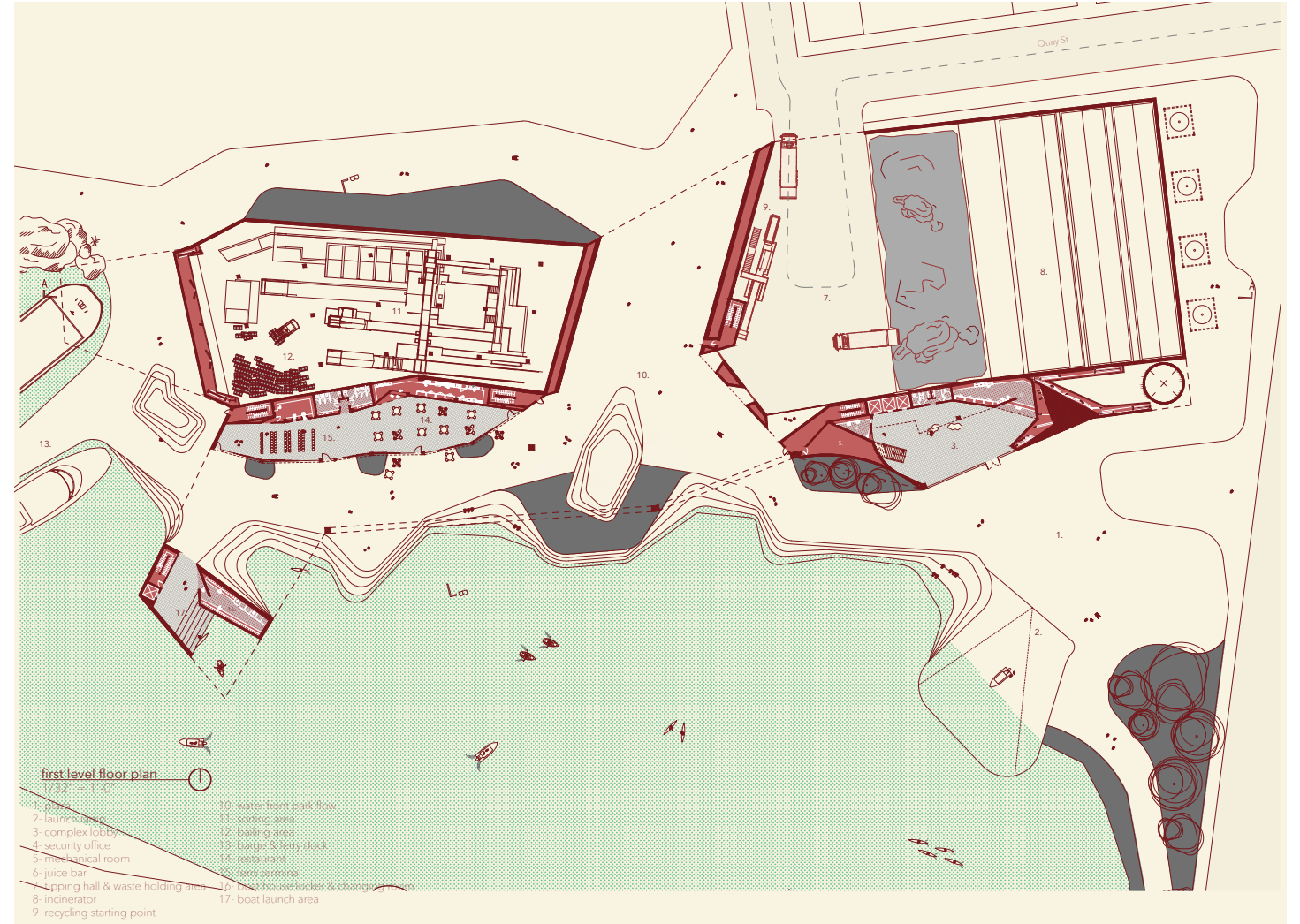
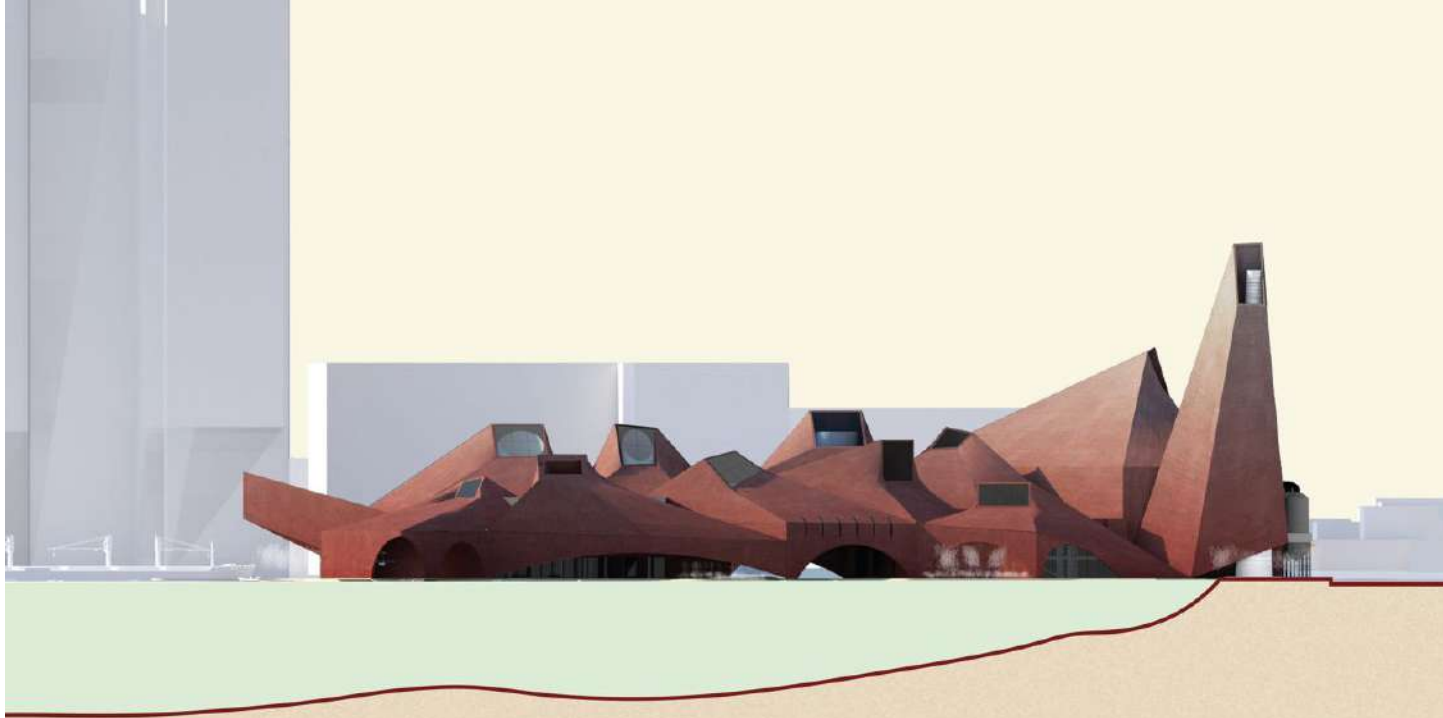
Advisor: **Stephanie Bayard**

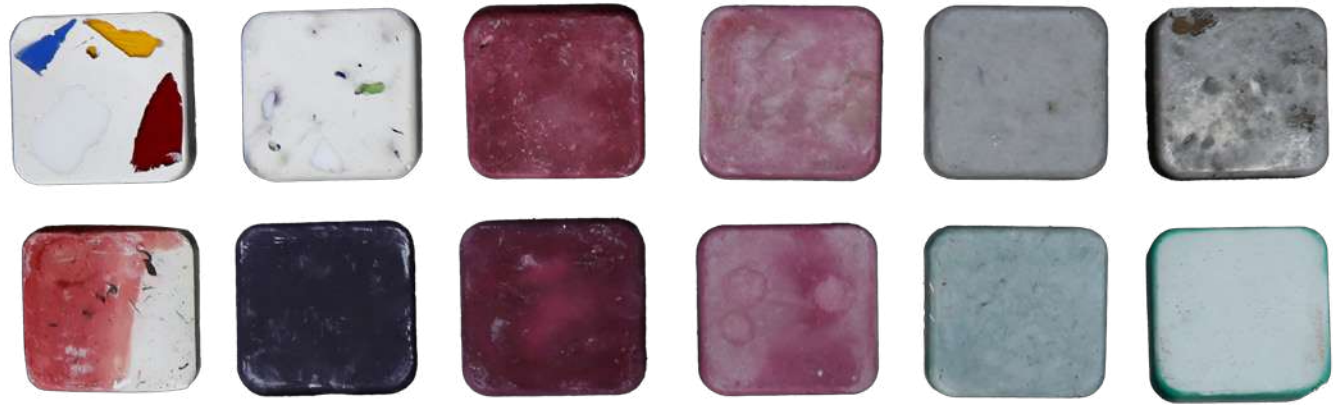
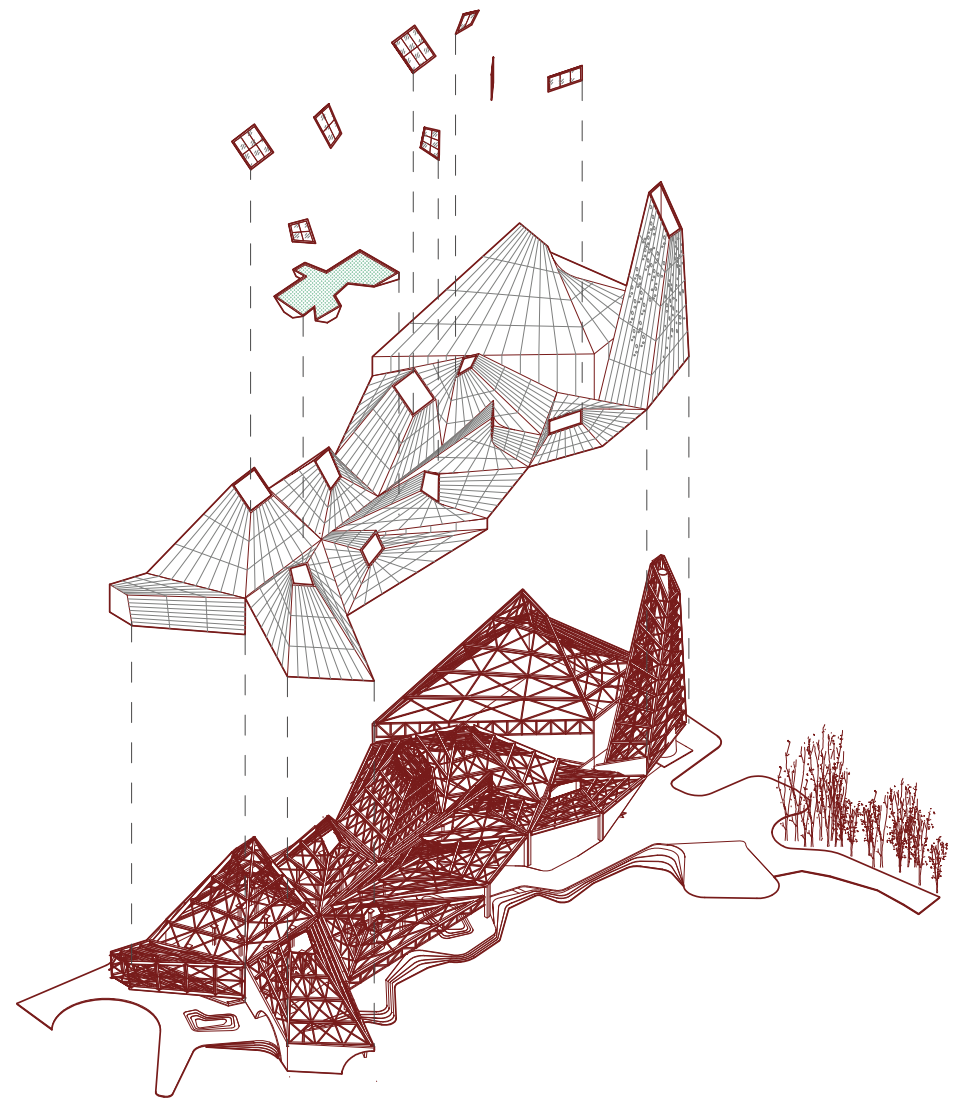
Project time: **Spring 2023**

Location: **Greenpoint, Brooklyn, NY**

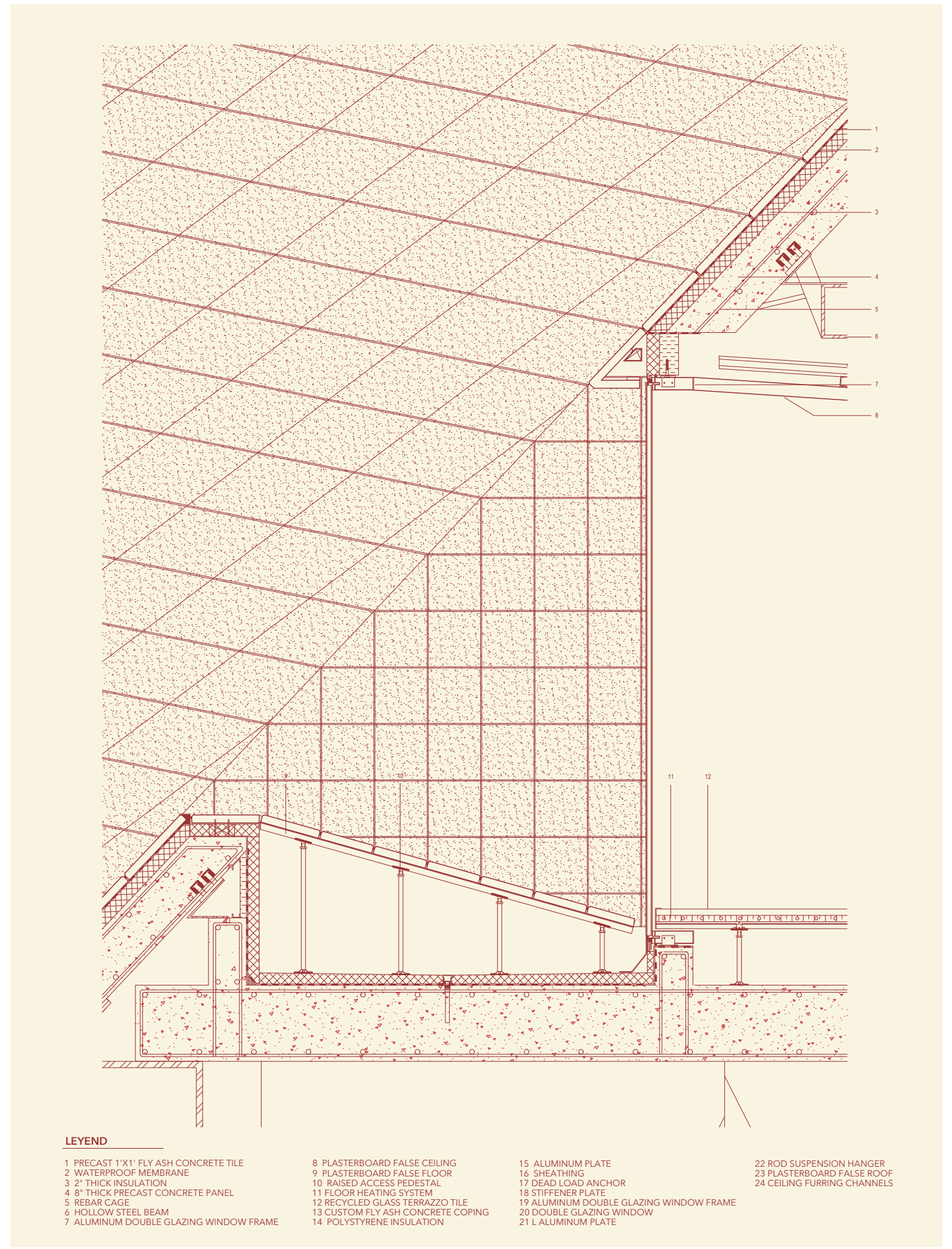
Partner: **Michael Ortiz Jiménez**







**Material exploration:** In alignment with the recycling and incineration of waste within urban environments, we repurposed the ash generated by the incinerator into ash concrete tiles for our building envelope. This not only redefines waste utilization but also delves into the concept of a closed-loop waste cycle.



**LEYEND**

- |  |                                   |   |                             |
|--|-----------------------------------|---|-----------------------------|
| 1 PRECAST 1'X1' FLY ASH CONCRETE TILE  | 8 PLASTERBOARD FALSE CEILING      | 15 ALUMINUM PLATE                       | 22 ROD SUSPENSION HANGER    |
| 2 WATERPROOF MEMBRANE                  | 9 PLASTERBOARD FALSE FLOOR        | 16 SHEATHING                            | 23 PLASTERBOARD FALSE ROOF  |
| 3 2" THICK INSULATION                  | 10 RAISED ACCESS PEDESTAL         | 17 DEAD LOAD ANCHOR                     | 24 CEILING FURRING CHANNELS |
| 4 8" THICK PRECAST CONCRETE PANEL      | 11 FLOOR HEATING SYSTEM           | 18 STIFFENER PLATE                      |                             |
| 5 REBAR CAGE                           | 12 RECYCLED GLASS TERRAZZO TILE   | 19 ALUMINUM DOUBLE GLAZING WINDOW FRAME |                             |
| 6 HOLLOW STEEL BEAM                    | 13 CUSTOM FLY ASH CONCRETE COPING | 20 DOUBLE GLAZING WINDOW                |                             |
| 7 ALUMINUM DOUBLE GLAZING WINDOW FRAME | 14 POLYSTYRENE INSULATION         | 21 L ALUMINUM PLATE                     |                             |

## 02 MUSEO INTERACTIVARTE

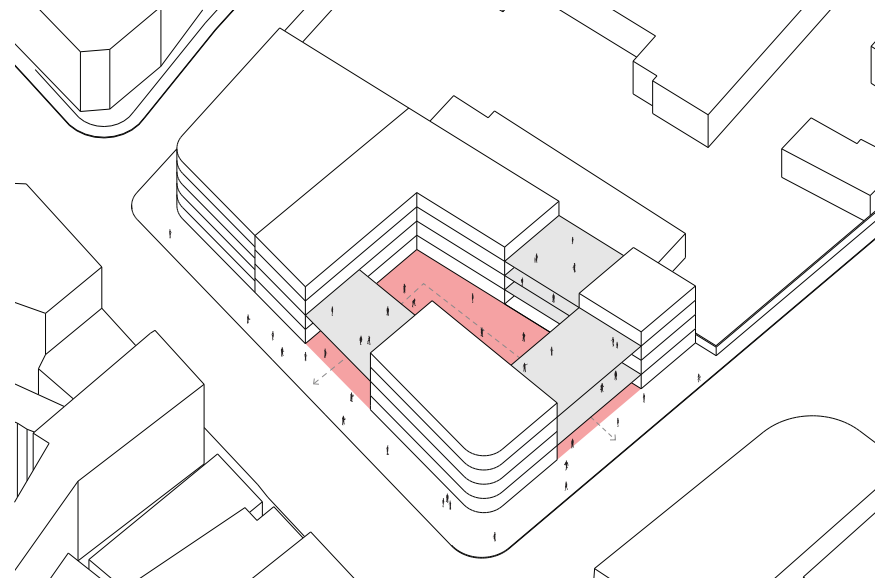
TACTILE EXPLORATIONS

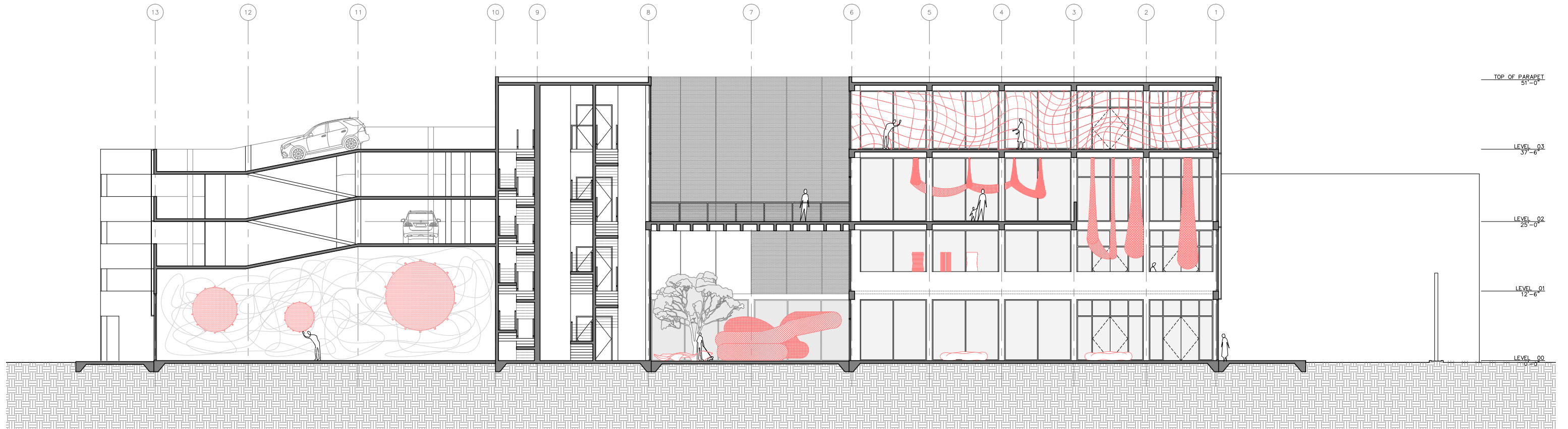
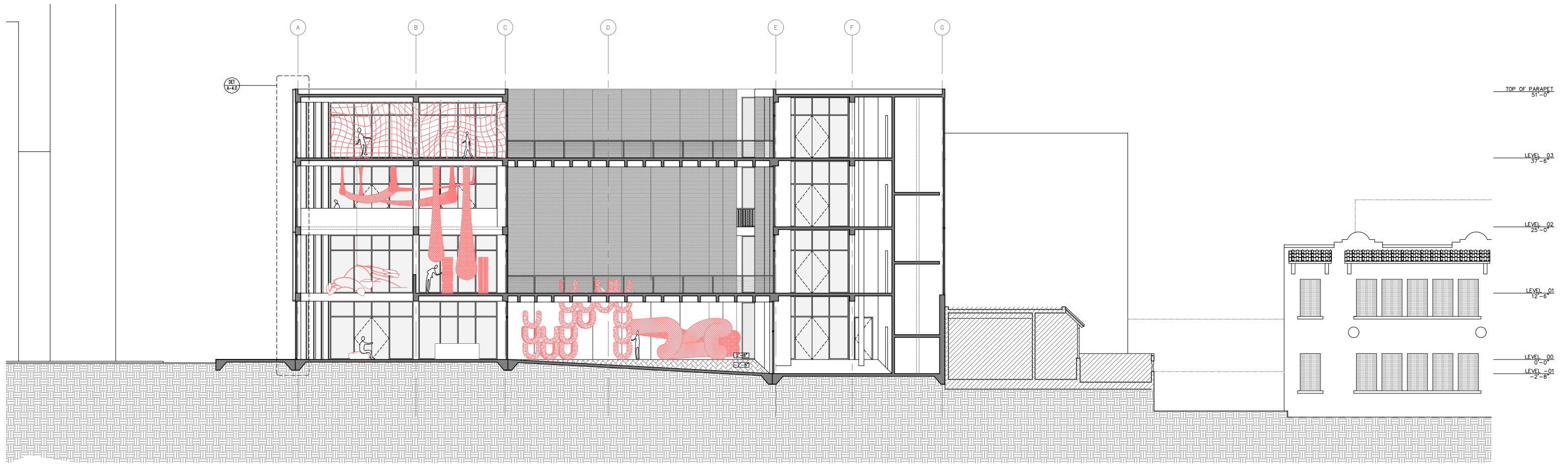
Nestled within the historic Juan Ponce de León Avenue, this project extends the reach of the Museum of Art of Puerto Rico, transforming the thoroughfare into a dynamic hub of artistic exploration. By bridging the gap between existing institutions and the surrounding urban landscape, it fosters a multisensory experience that invites active participation from artists and patrons alike while revitalizing the area through interactive installations and inclusive programming. This infusion of creative energy nurtures the development of local talent in Santurce and enriches the cultural tapestry of the city as a whole, with delineated volumes and interconnecting bridges enhancing pedestrian flow and sensory experiences at intersection points.

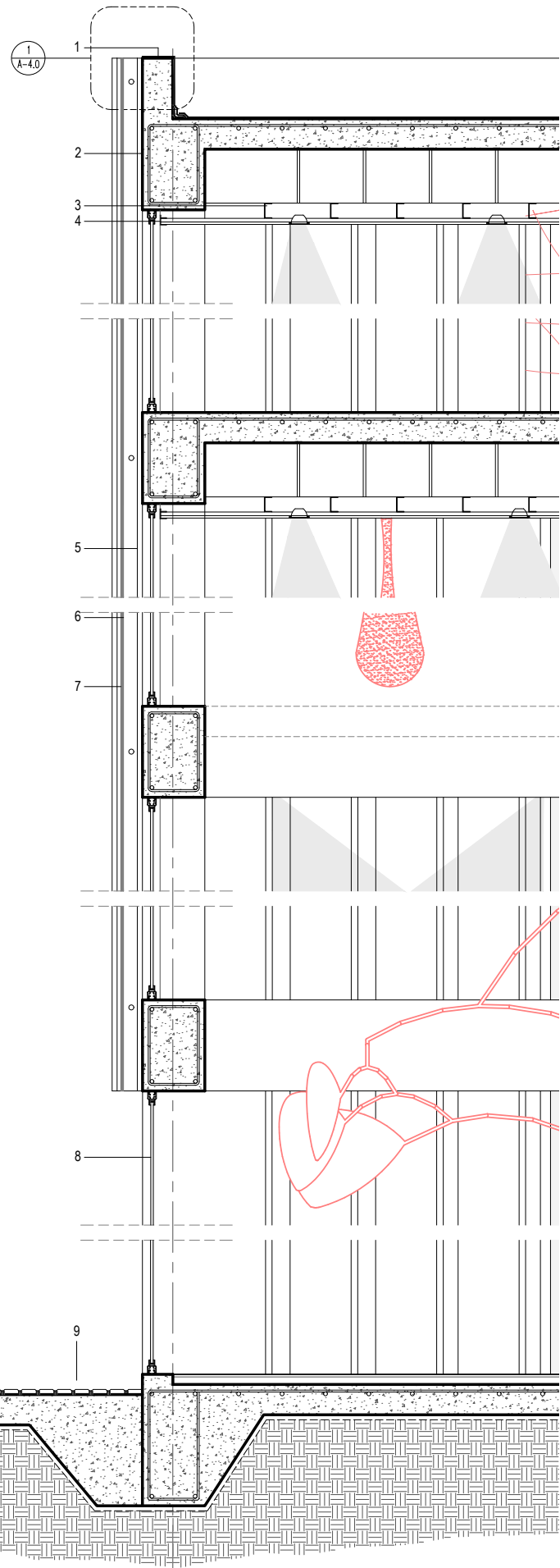
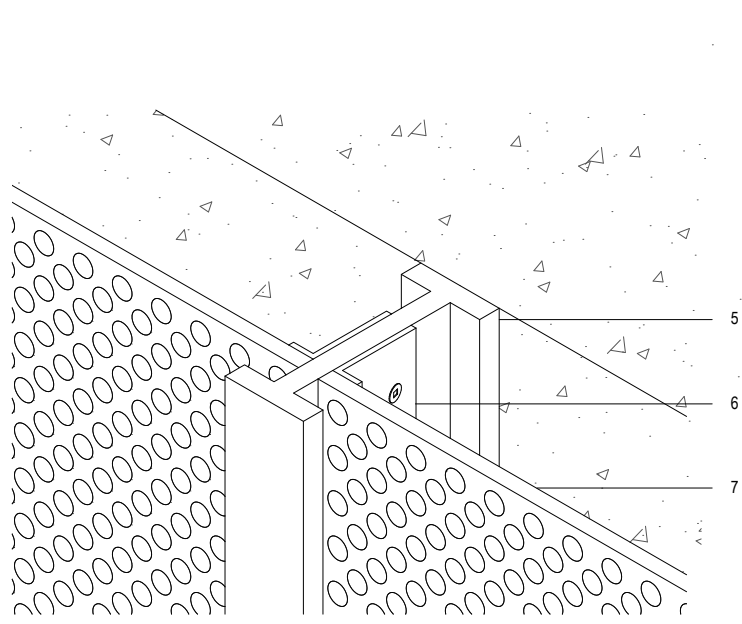
Advisor: **Arch. Shellar García**

Project time: **Fall 2021**

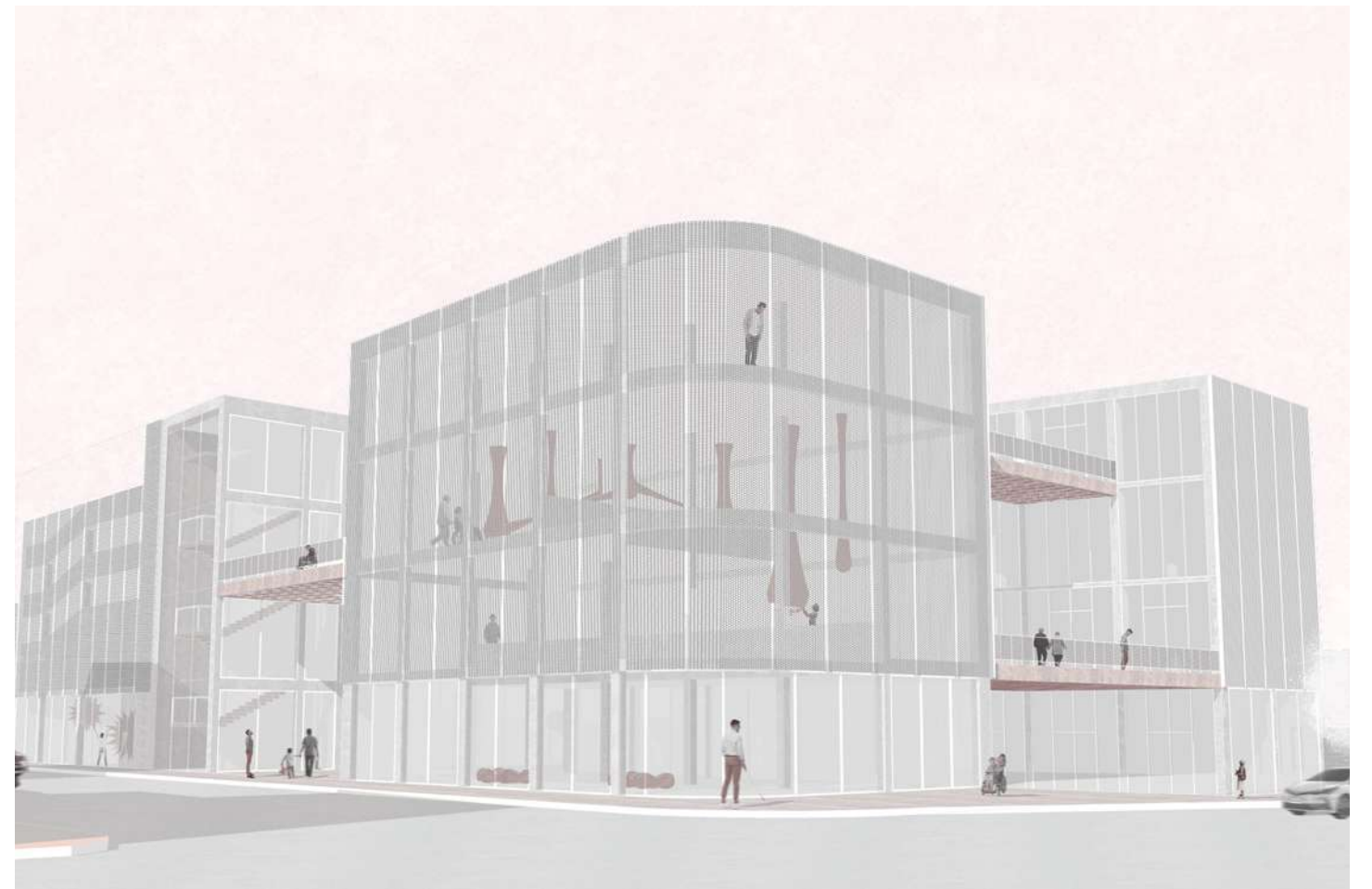
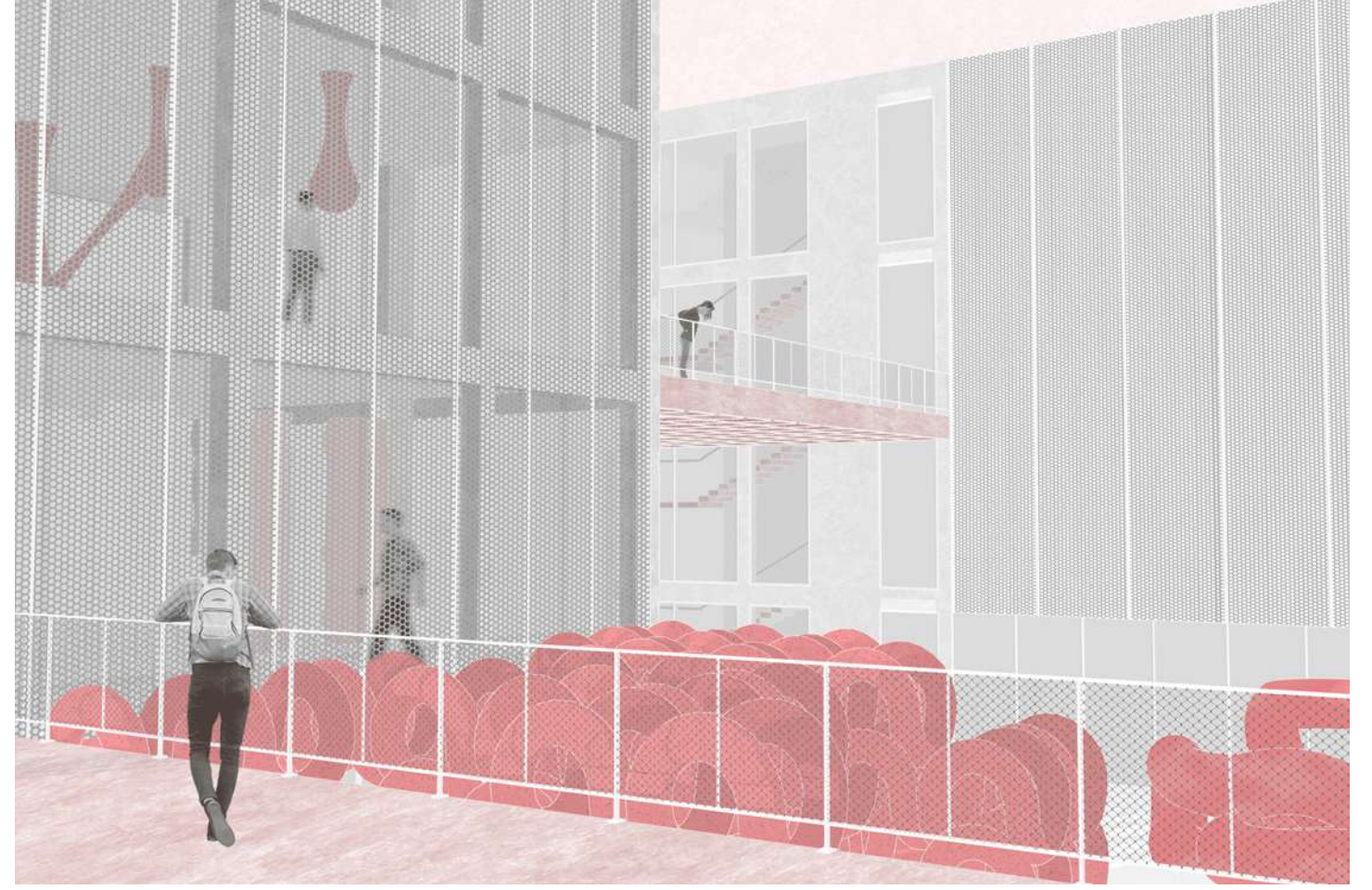
Location: **Santurce, San Juan, Puerto Rico**







- 1 Parapet wall flashing finish
- 2 Reinforced concrete
- 3 Suspended plasterboard ceiling
- 4 Perimeter channel
- 5 I-Profile
- 6 L-shaped profile
- 7 Perforated metal panel
- 8 Fixed Aluminum and glass window
- 9 Concrete exterior paver



### 03 RESCUING WOVEN TALES

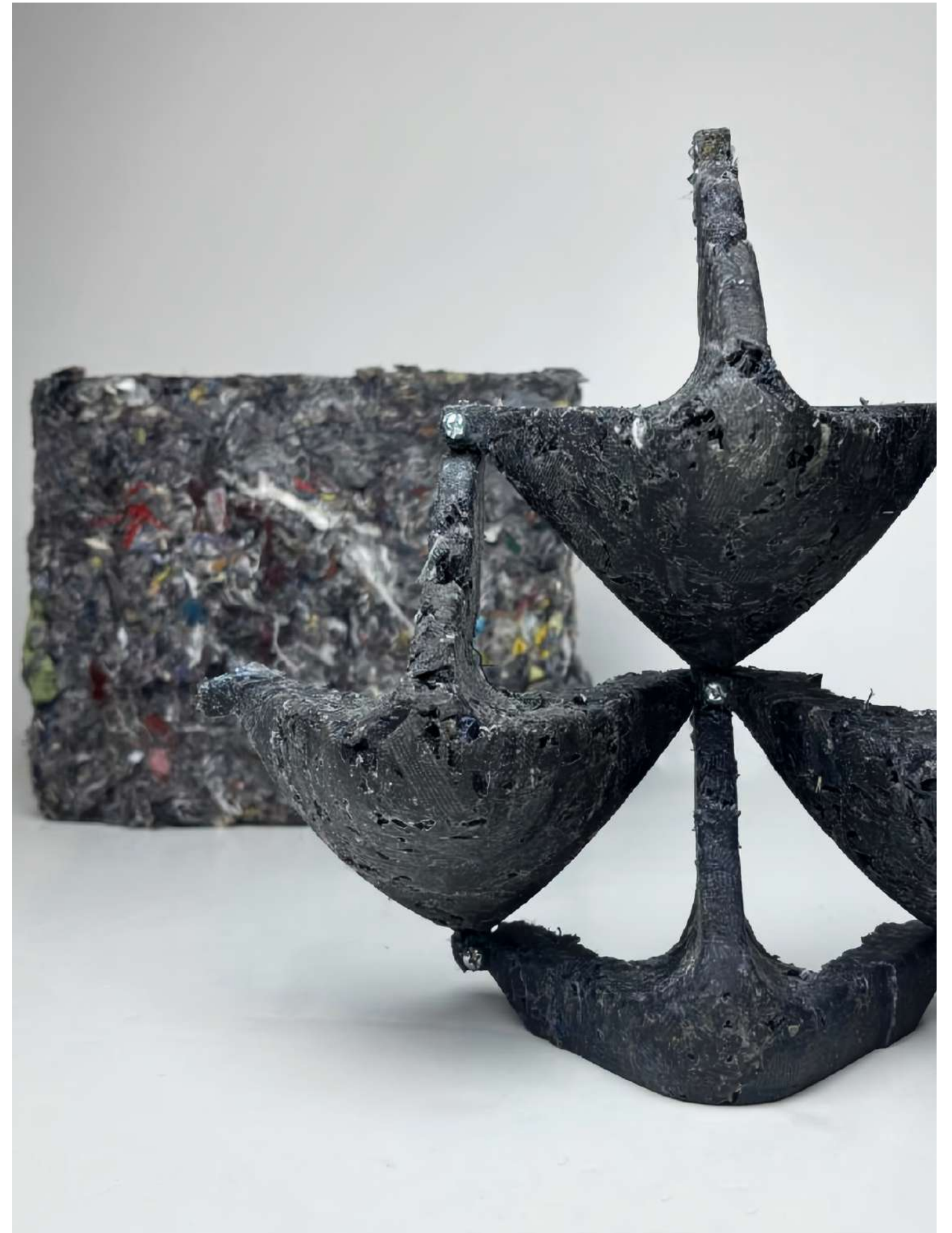
THE EVERGROWING SPONGE

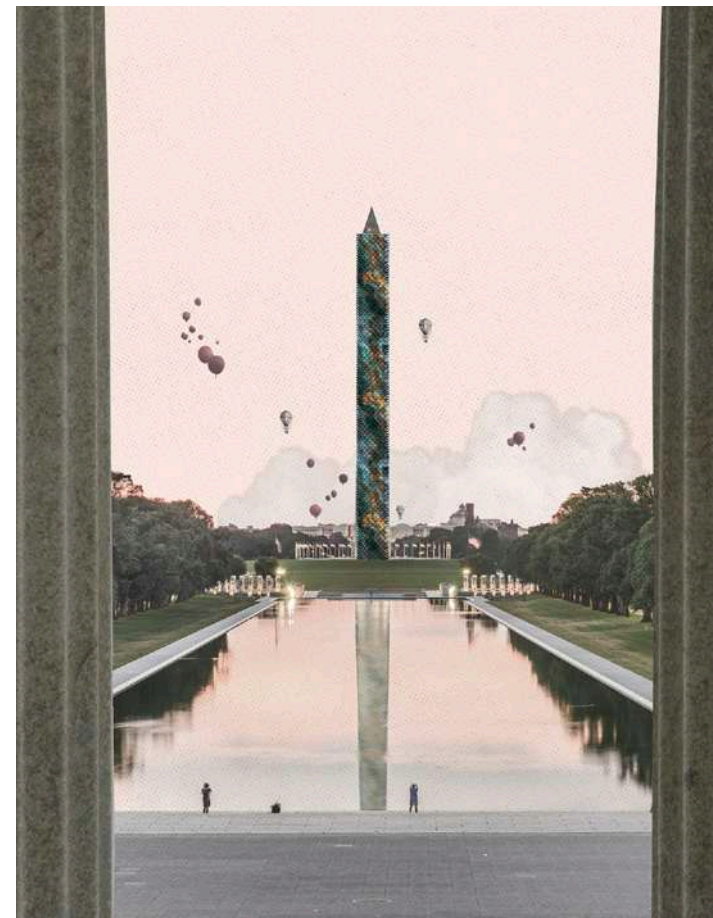
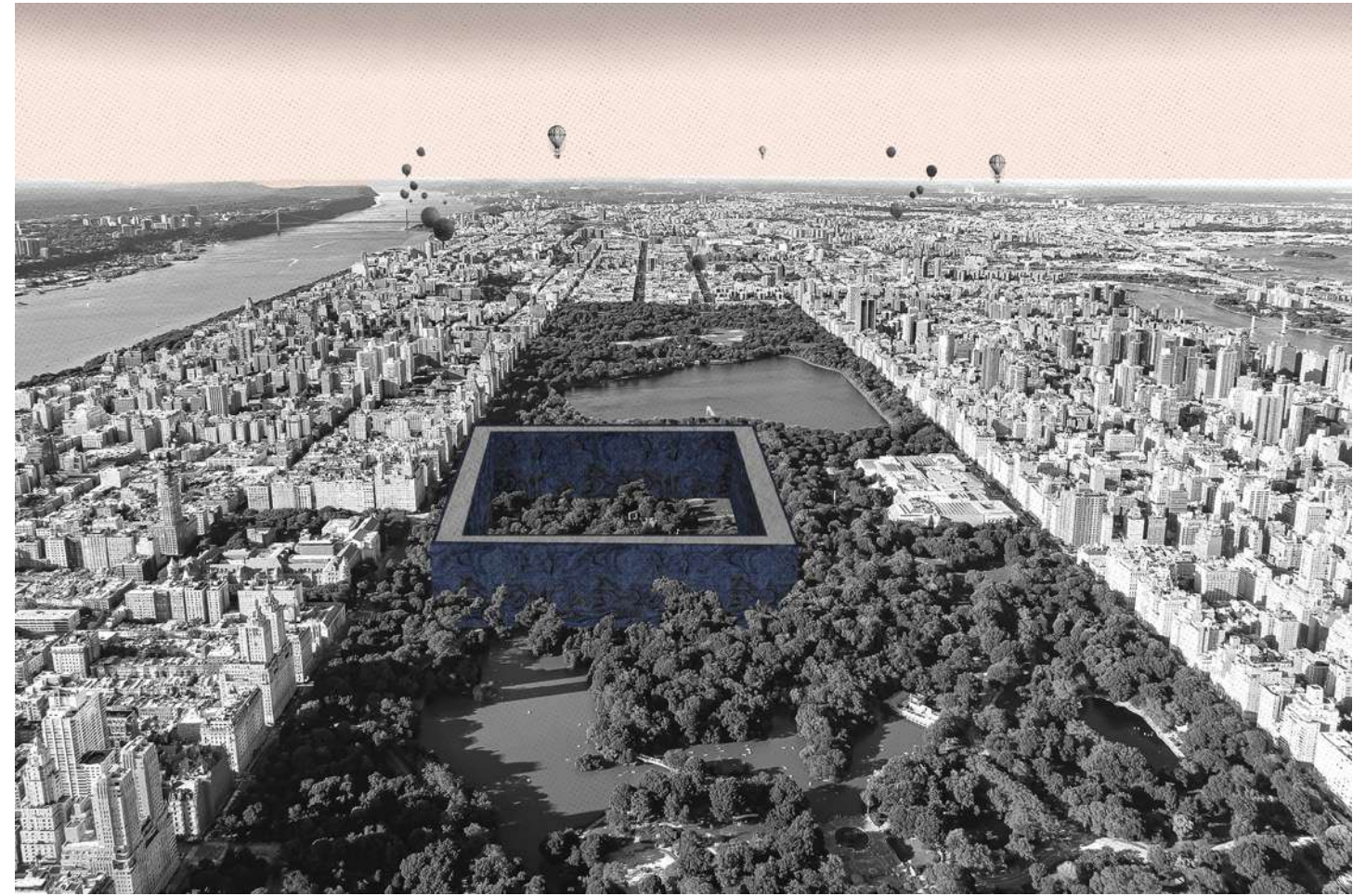
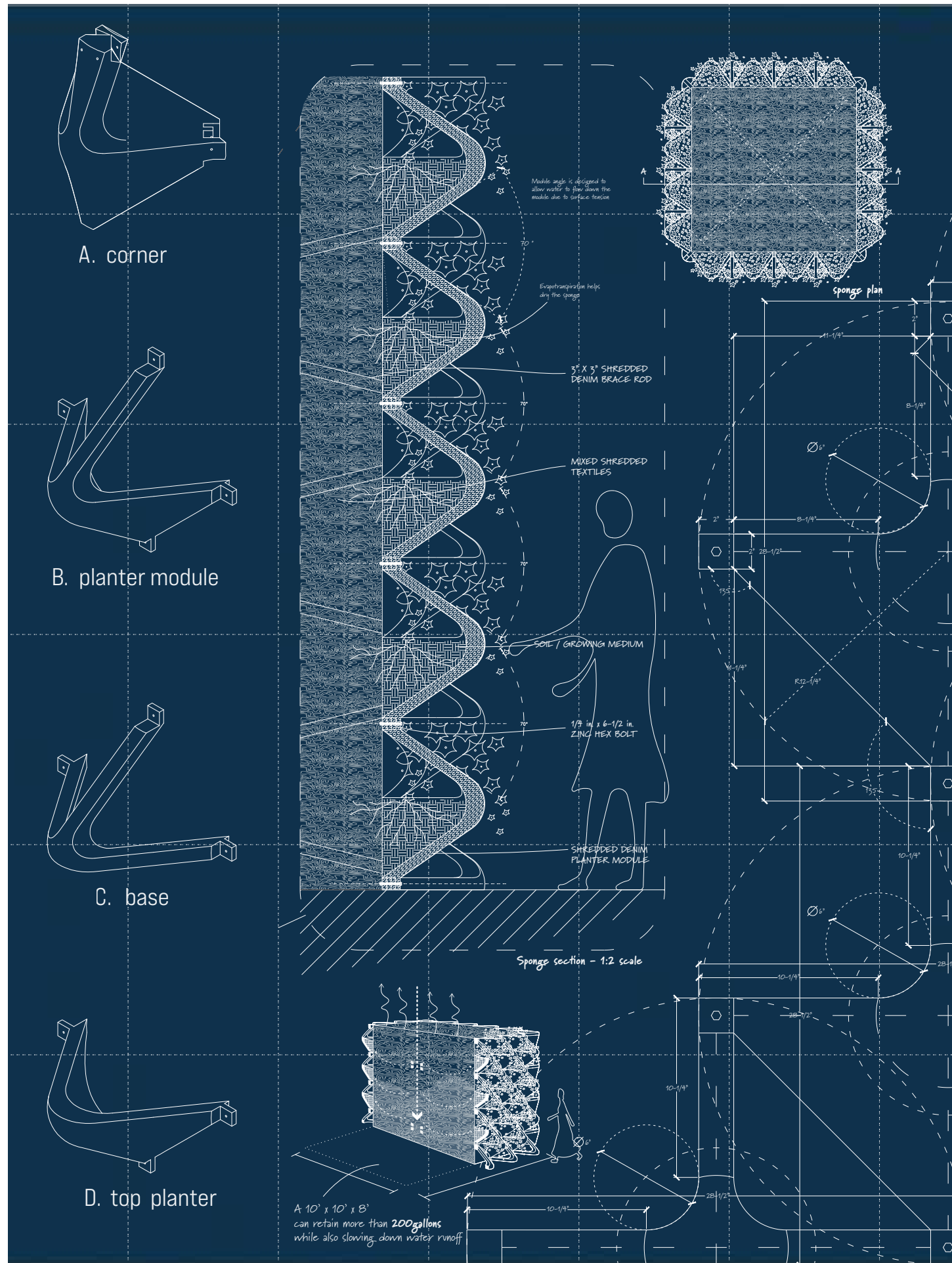
In the vast expanse of textile waste, a reflection of our consumption habits, our research aims to uncover its untapped potential. By repurposing textile waste into modular elements, we offer a sustainable solution for urban environments. Inspired by capillary action, these modules serve as planters, absorbing water and reducing flooding. Through modular aggregation, we address the scale of waste while exploring cohesive alternatives, aiming to harmonize with discarded garments and safeguard urban landscapes. Our efforts strive to transform waste into opportunity, fostering a more resilient and environmentally conscious future.

Advisor: **Arch. Carlos Arnaiz | Arch. Kerim Eken**

Project time: **Fall 2023**

Partner: **Michael Ortiz Jiménez**





## 04 INTERWOVEN THRESHOLD

SPINE OF GREEN SOCIAL INFRASTRUCTURE

RE:AL ESTSATE EVENT SELECTED WORK AT **fx**collaborative

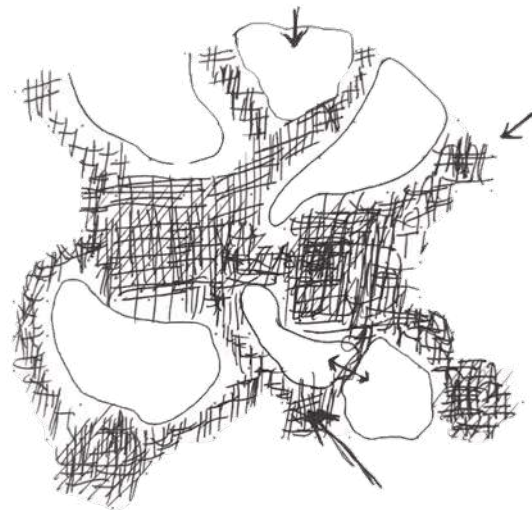
Within the Farragut houses, our project fosters community engagement and interaction through shared spaces, inviting exploration of the ethereal “third space” while embracing a bottom-up ethos and shunning conventional master plans. This anti-master plan forms a dynamic matrix comprising greenhouses, vertical farms, markets, and pavilions, reshaping the inner site into a fluid, organic canvas for communal interaction and improvisation, offering boundless opportunities. Across diverse levels and terraces, a tapestry of activities unfolds, engaging in a dialogue with the urban fabric, enriching the site’s essence, and nurturing a profound sense of place. Here, within these social spaces, residents find solace in spontaneous gatherings and connections, weaving a tapestry of vibrant community cohesion.

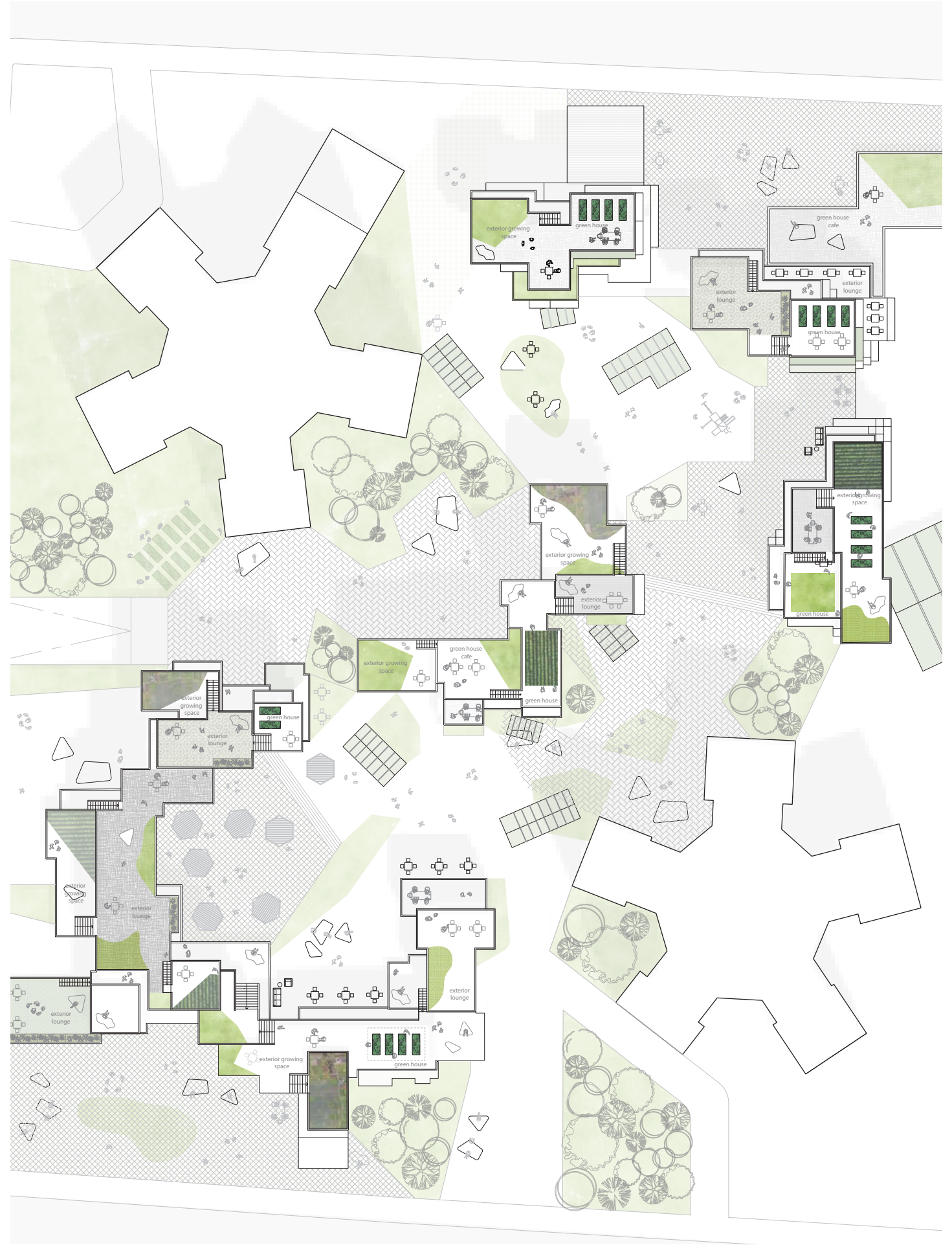
Advisor: **Arch. Landon Brown**

Project time: **Fall 2022**

Location: **Downtown Brooklyn, Brooklyn, NY**

Partner: **Name Olmez**



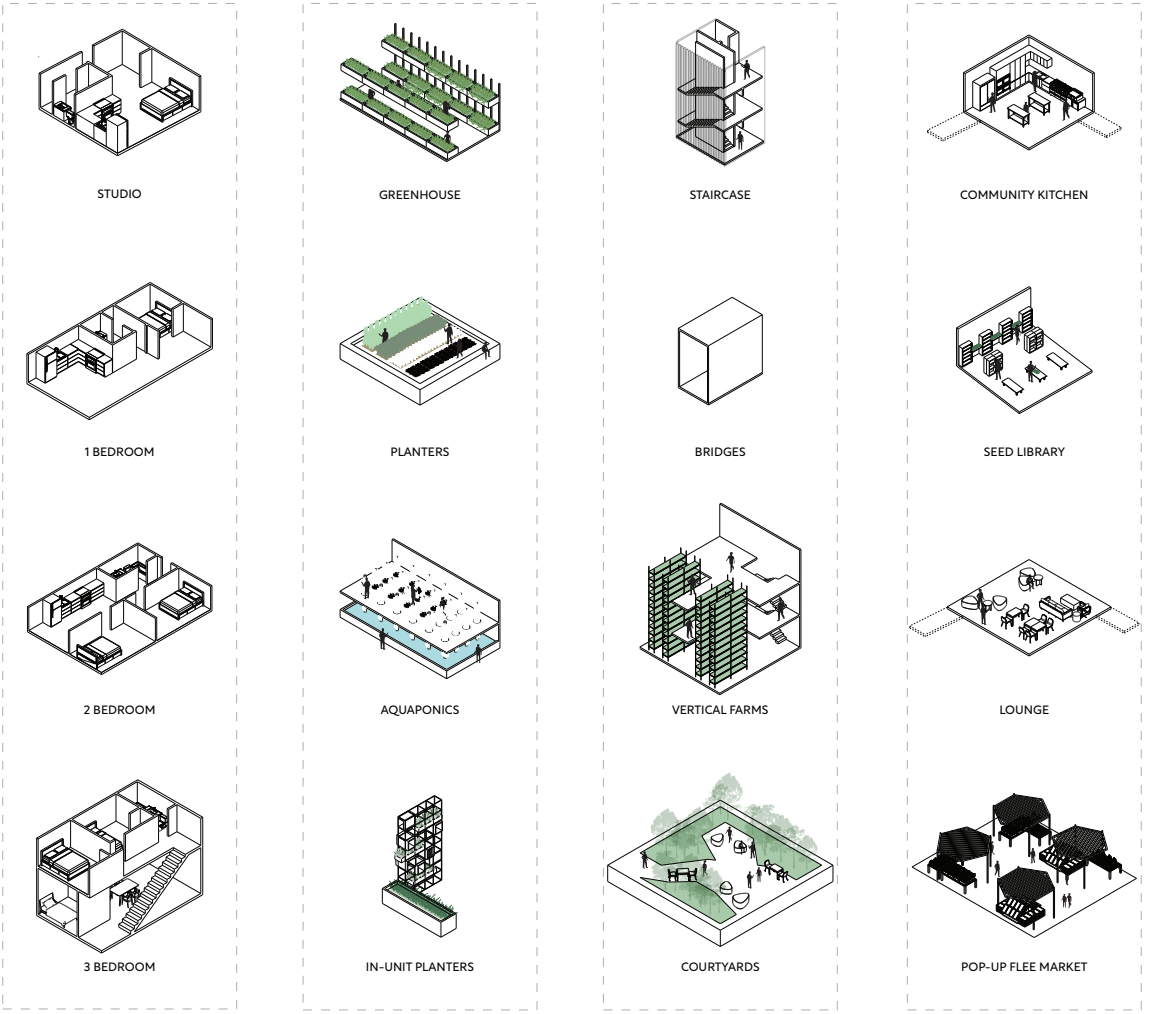


DWELLING

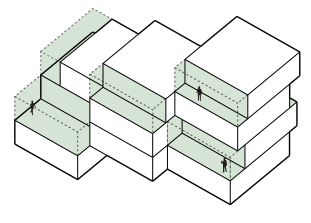
GROWING

CONNECTING

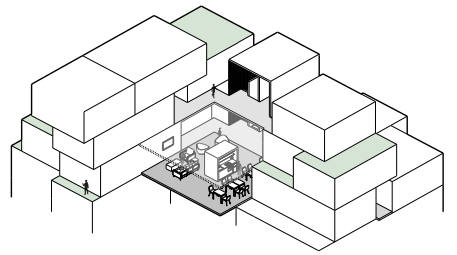
GATHERING



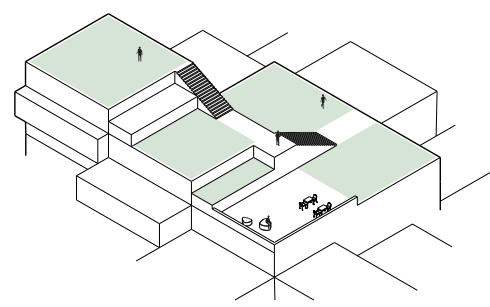
Bottom-up matrix.



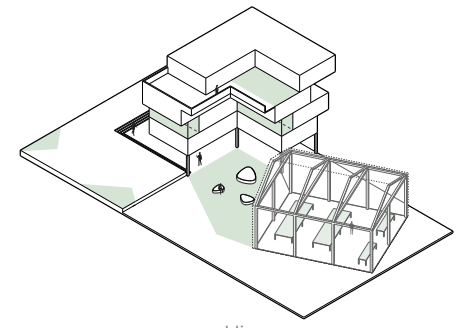
in-unit scale



semi-public



cluster to cluster



public

Morphological Relationships Across Scales

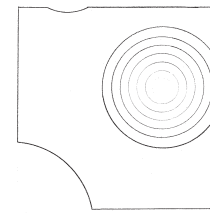
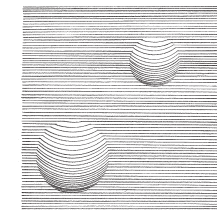
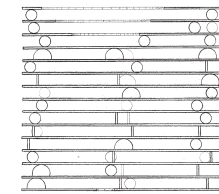
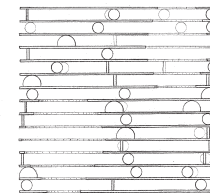
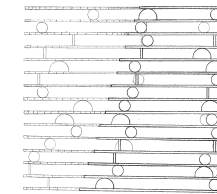
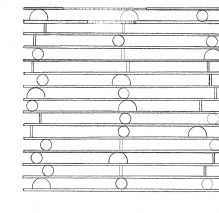
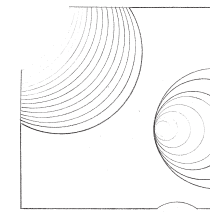
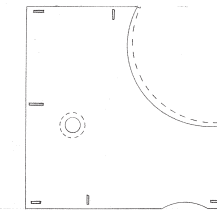
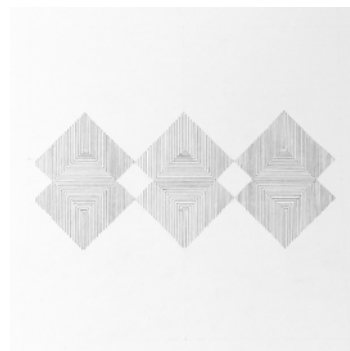
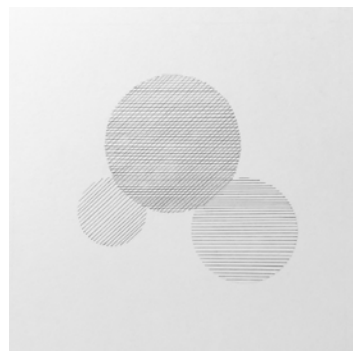
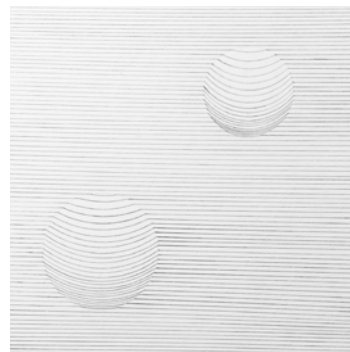
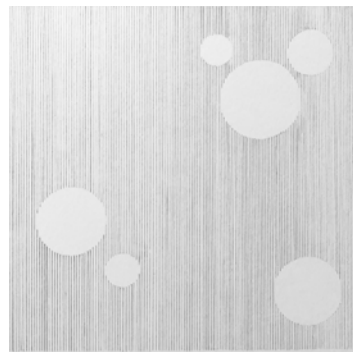
## 05 COMPOSITION ALCHEMY

UNVEILING COMPOSITION'S PSYCHOLOGY

This project dives deep into the core principles of visual composition, exploring the intricate interplay between form, perception, and expression. By delving into the fundamentals of composition, the psychology of gestalt, and the lexicon of composition through visual expression, it aims to unveil the nuanced language of composition. Employing technical drawing and crafting three-dimensional compositions, the concept of simplicity metamorphoses into an entity that examines fundamental forms of representation.

Advisor: **Arch. Claudia Cintrón**

Project time: **Fall 2018**



## 06 CONVERGING REALITIES

EXPLORING IDENTITY AND ASPIRATION

The university serves as a realm where individuals envision and strive towards their desired identities and aspirations. Utilizing graphic codes and three-dimensional abstraction, this project illustrates the overlap of external reality (the street) onto the university setting. Within the transitional space bridging both realms, various phenomena and daily events in Puerto Rico frequently traverse the boundary.

Advisor: **Regner Ramos, PhD**

Project time: **Fall 2018**

Location: **University of Puerto Rico, San Juan, Puerto Rico**

