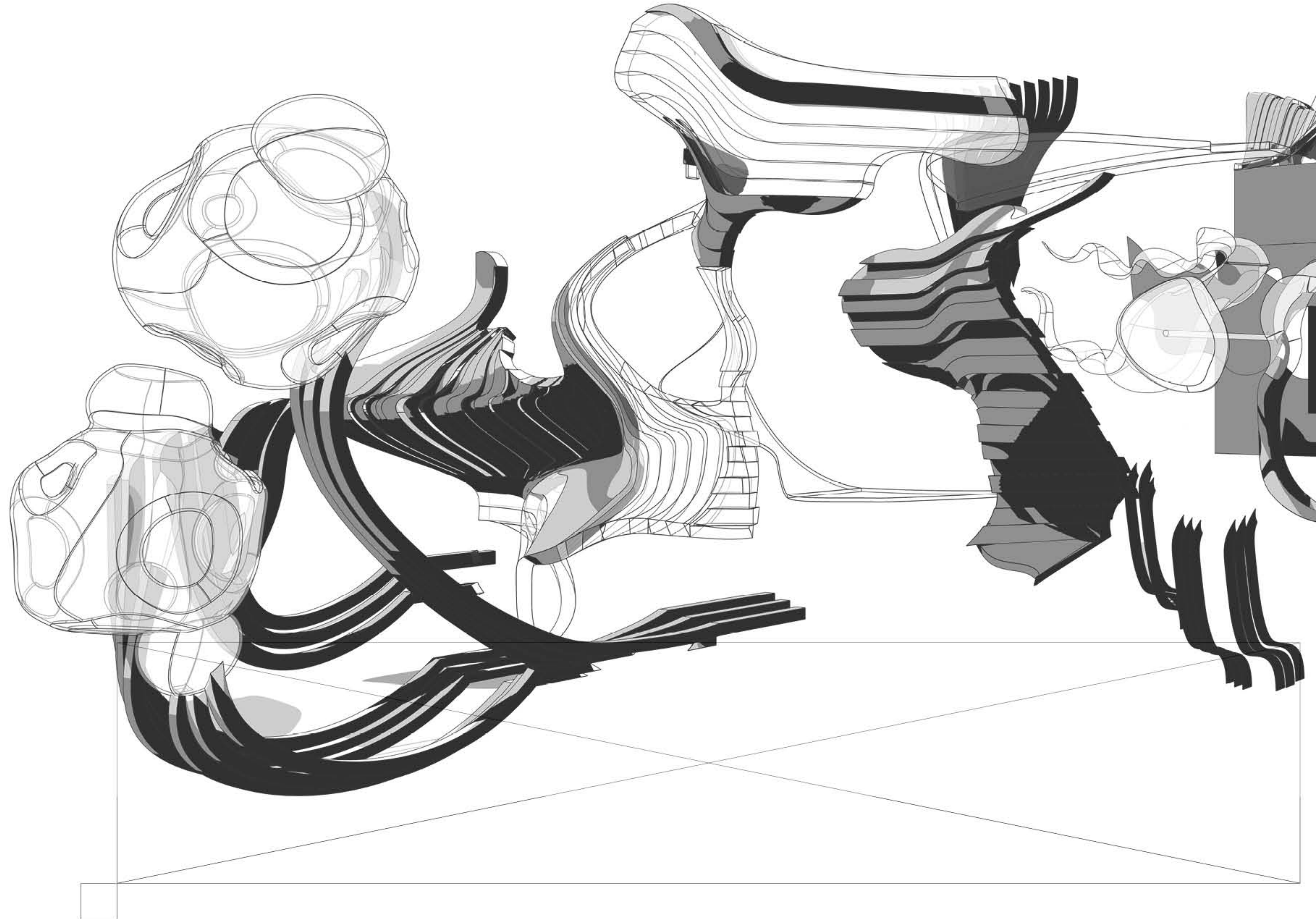
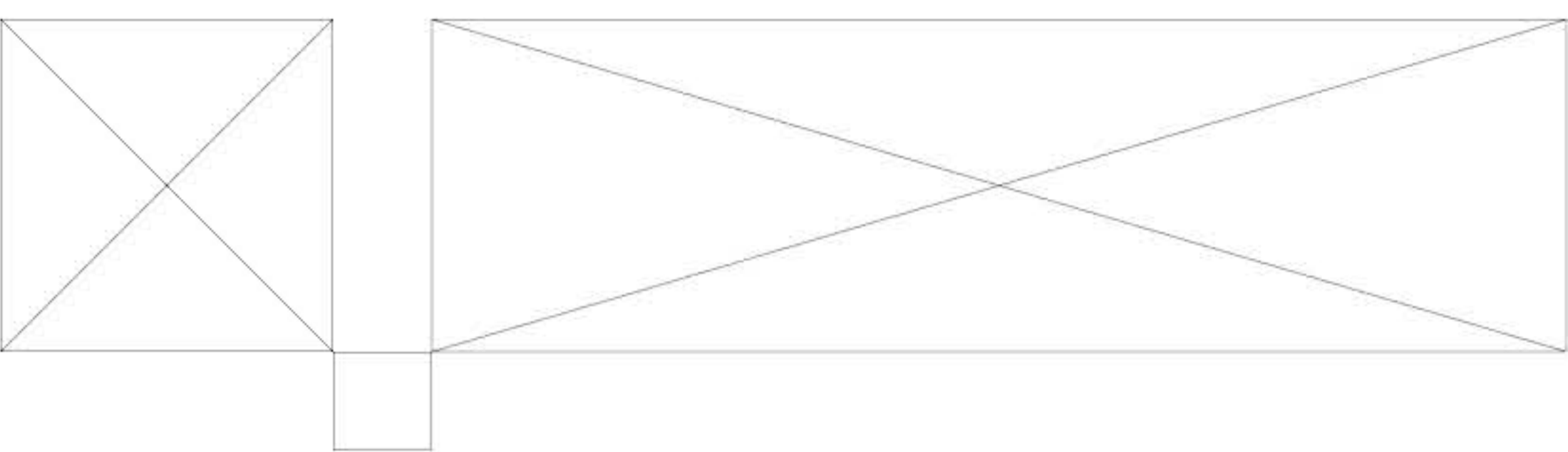


ARCHITECTURE

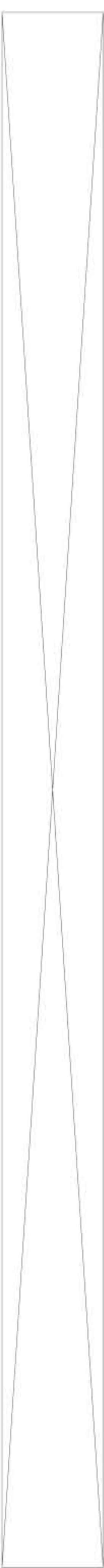
L [QIRUI] FANG  
**PORTFOLIO**

Pratt Institute School of Architecture  
B. Arch 2025





ARCHITECTURE



PROJECTS OVERVIEW

- P01

**Parkside Exchange [RIBA Nomination]**

Sara D. Roosevelt Park, East Houston, New York, New York  
Public Marketplace / Community Center / Public Park  
Integrated Design 302 - Spring 2023
- P02

**Photography Factory Museum [Distinguished Project Fall 2023]**

Bush Terminal Park / Industrial City, Brooklyn, New York  
Museum for Photography and Viewing  
Advance Design Studio 402 - Fall 2023
- P03

**Woodstock Cloud Library [Archived]**

Woodstock, Bronx, New York  
NY Public Library / Community and Resource Center  
Intermediate Design 202 - Spring 2022
- P04

**Marcy’s Housing [Archived]**

Astoria Park, Queens, New York  
Bathhouse / Sauna / Community Classroom  
Intermediate Design 201 - Fall 2021
- P05

**RETI Center Water’s Edge [Design-Build]**

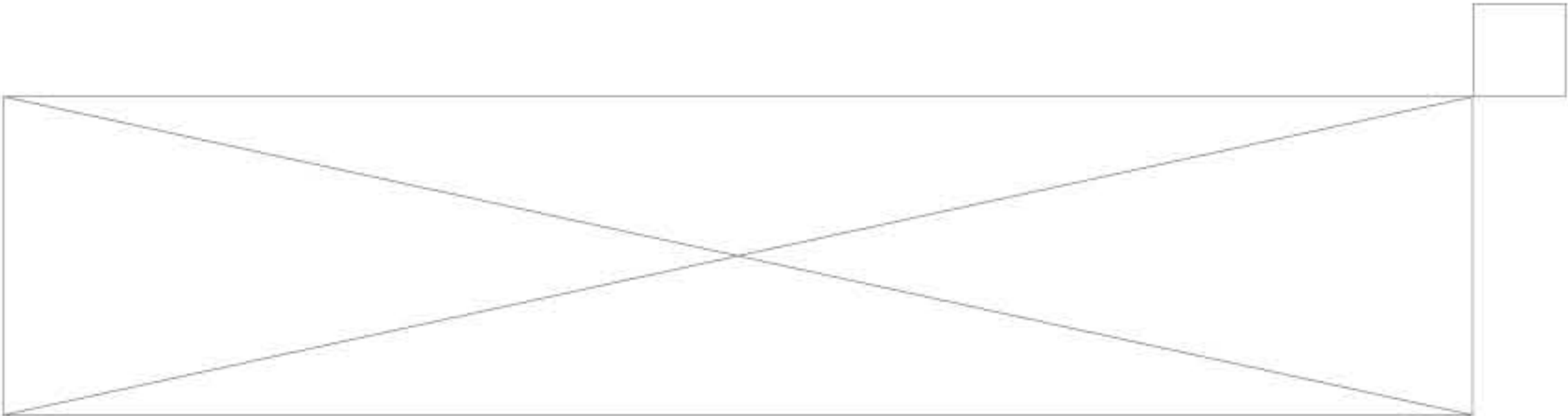
Redhook, Gowanus Canal, Brooklyn, New York  
Design-Build Upcycle Project for waterfront Non-Profit Organization  
Advance Design Studio 401 - Summer 2023
- P06

**Red Brick Walls**

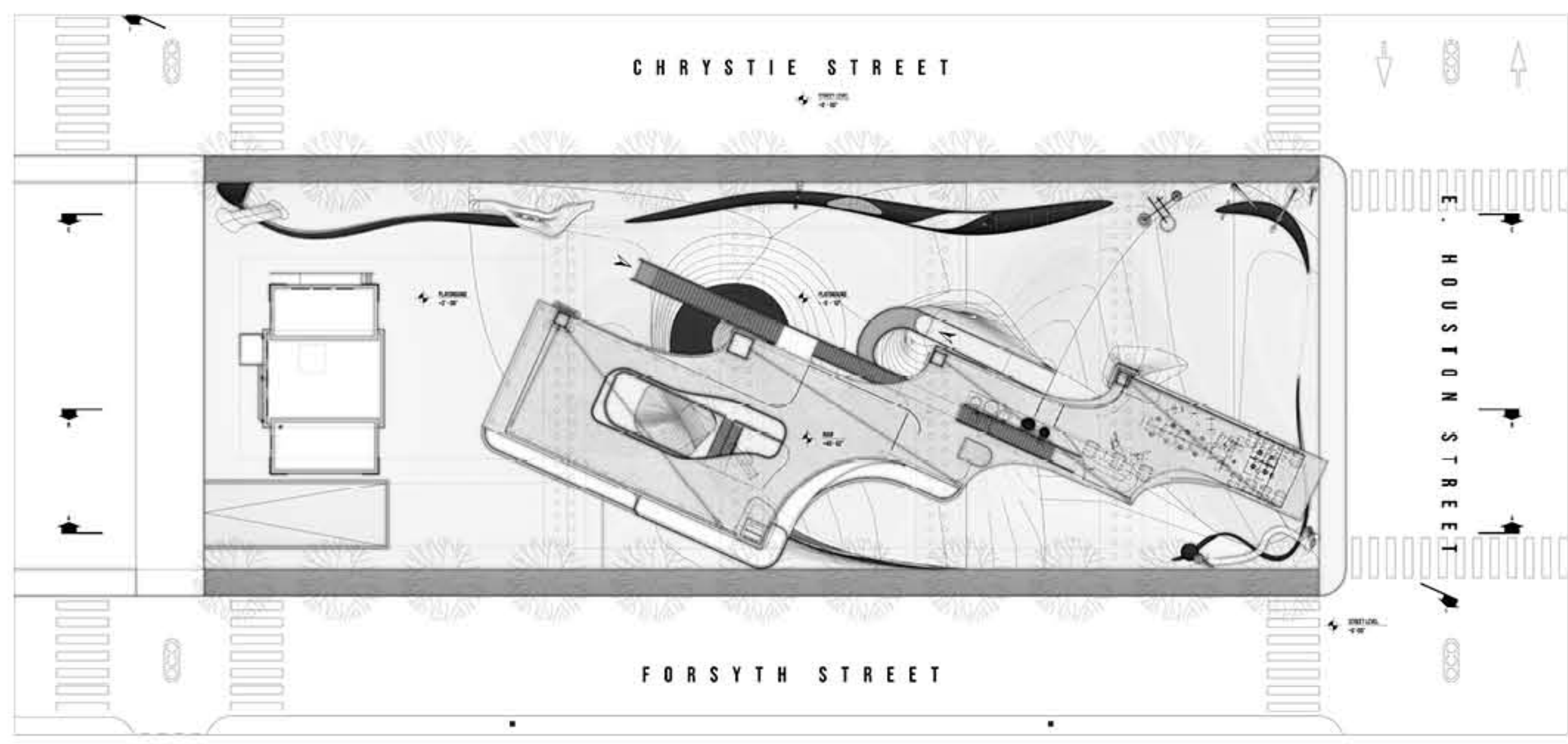
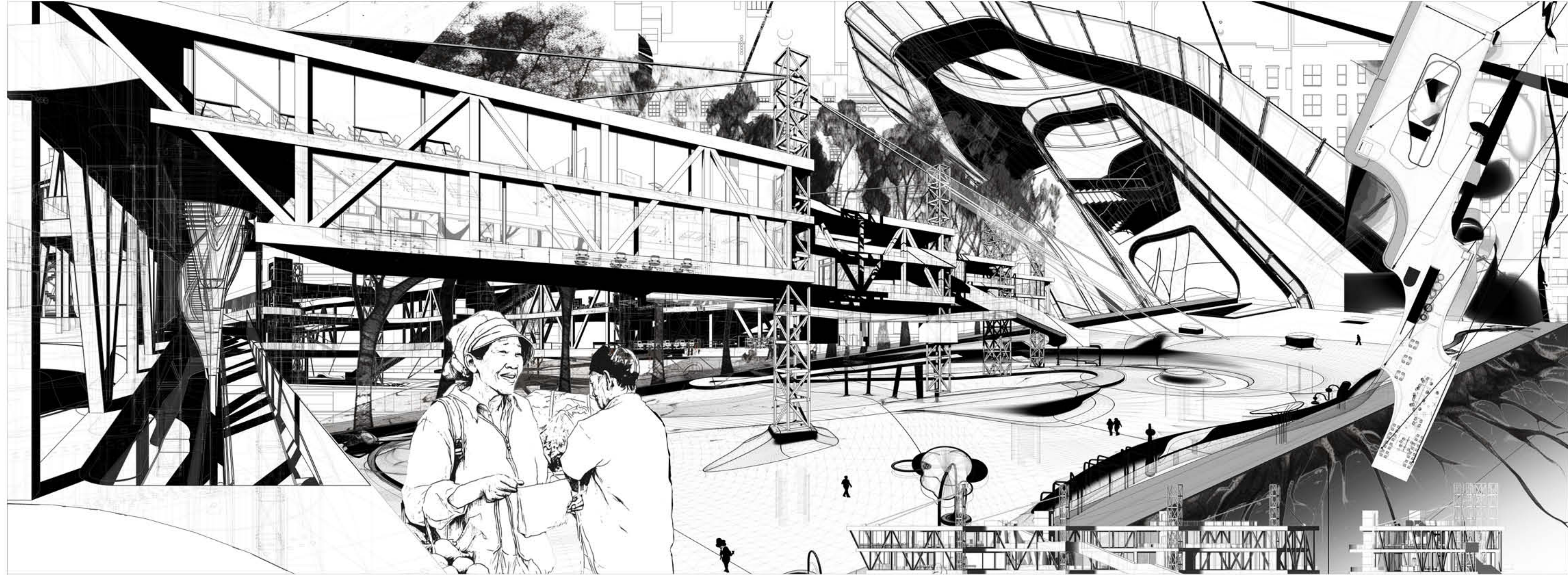
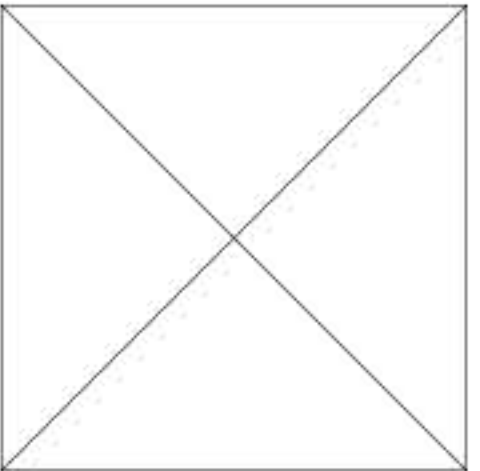
Self Directed Collaboration Design Project - Summer 2022
- P07

**Extras**

Renders / Models / Construction Documents / Photography





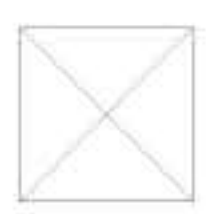


## PARKSIDE EXCHANGE

Sara D. Roosevelt Park, East Houston, New York  
Public Marketplace / Community Center / Public Park  
Integrated Design 302 - Spring 2023

The Parkside Exchange is an innovative multi-purpose market and community center complex situated at the northern end of Sarah D. Roosevelt Park, nestled in the vibrant core of Lower Manhattan. Amidst the dense urban fabric of New York City, where green spaces are a rare commodity, this project emerges as a beacon of urban rejuvenation and sustainability.

The vicinity of Sarah D. Roosevelt Park, though rich in potential, currently suffers from neglect and an uptick in criminal activities, which dissuades the local populace from utilizing the park's facilities. The Parkside Exchange project is designed to breathe new life into this underutilized space by introducing a variety of programs, including a farmer's market, communal classrooms, and versatile social spaces, thereby re-establishing the area as a communal hub.

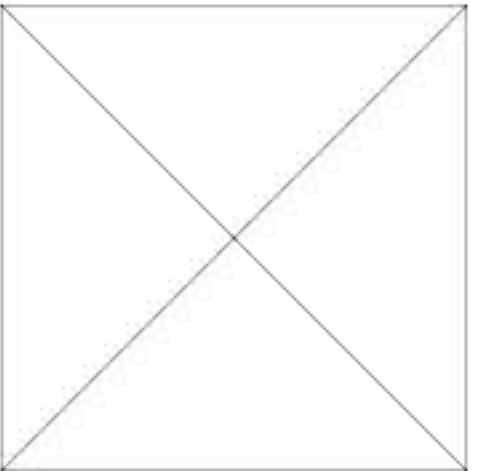


To harmonize with the existing park landscape while minimizing our ecological footprint, the entire complex is elevated using an innovative cable suspension system. This design choice not only preserves the park's existing open spaces and greenery but also allows for a creative reimagining of the landscape through thoughtful topographical adjustments. Embracing sustainability, the project utilizes green building materials, such as Cross-Laminated Timber (CLT), and integrates advanced geothermal climate control systems, setting a new standard for environmentally conscious urban development.

Strategically positioned between Chinatown and the Lower East Side, the Parkside Exchange stands at a cultural crossroads, offering a unique opportunity to foster community interaction and engagement. By serving as a dynamic platform for cultural exchange and social integration, the Parkside Exchange aims to unite diverse groups across cultural, ethnic, and economic lines, paving the way for a more inclusive and interconnected urban fabric.







PARKSIDE EXCHANGE 302\_SP2023  
RENDERS

TWINMOTION + PS-BETA

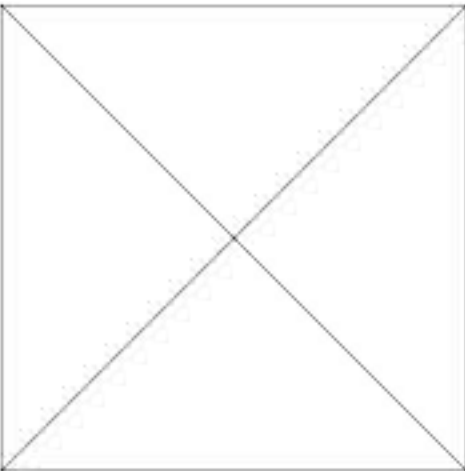
DAY RENDER  
NIGHT RENDER



^ (°O°) ^

During the day, the Parkside Exchange stands as a vibrant hub of community activity amidst lush greenery, while at night, its illuminated architectural design and inviting ambiance transform it into a bustling night market, creating a captivating vision of modernity and warmth within the urban landscape.

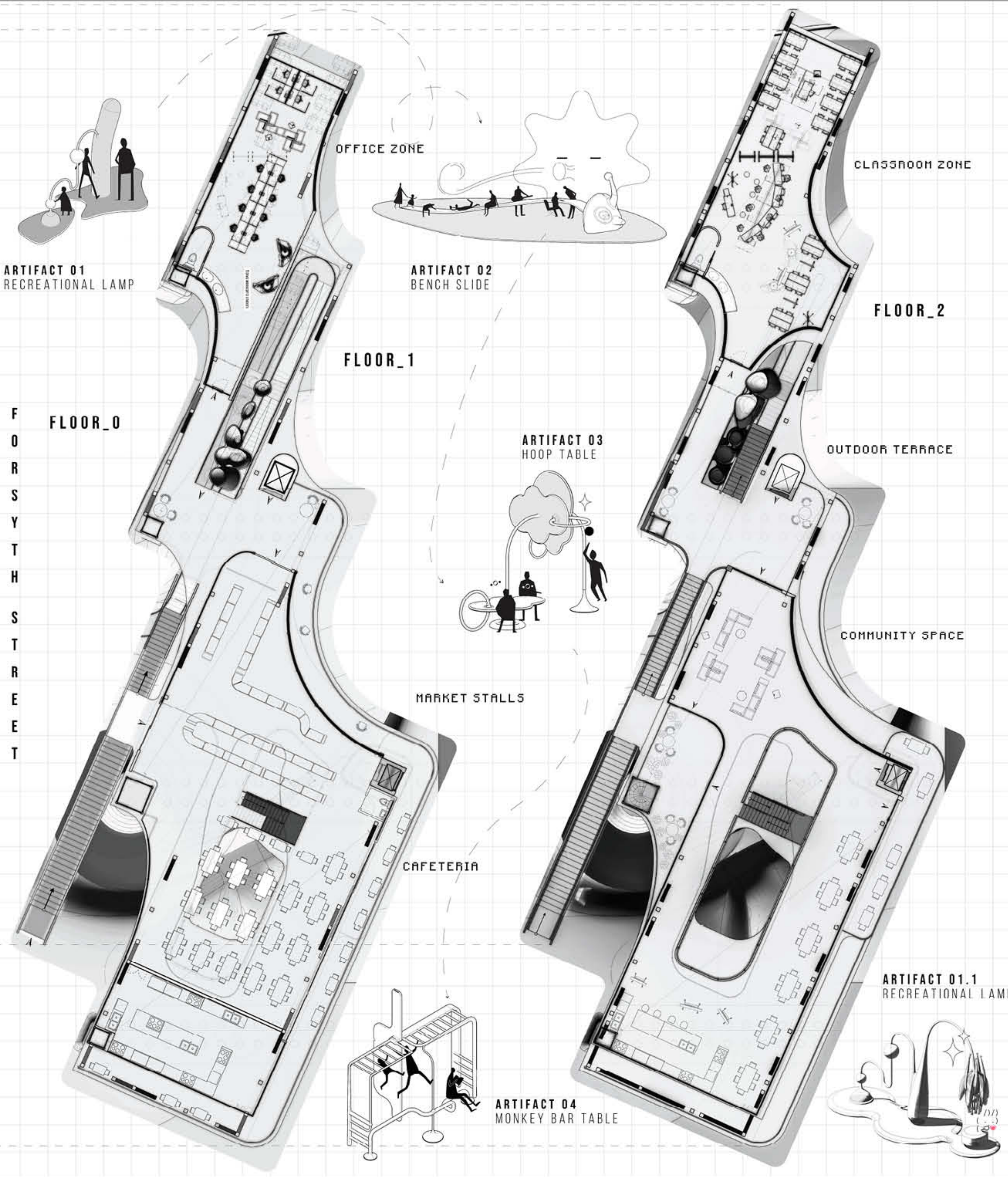




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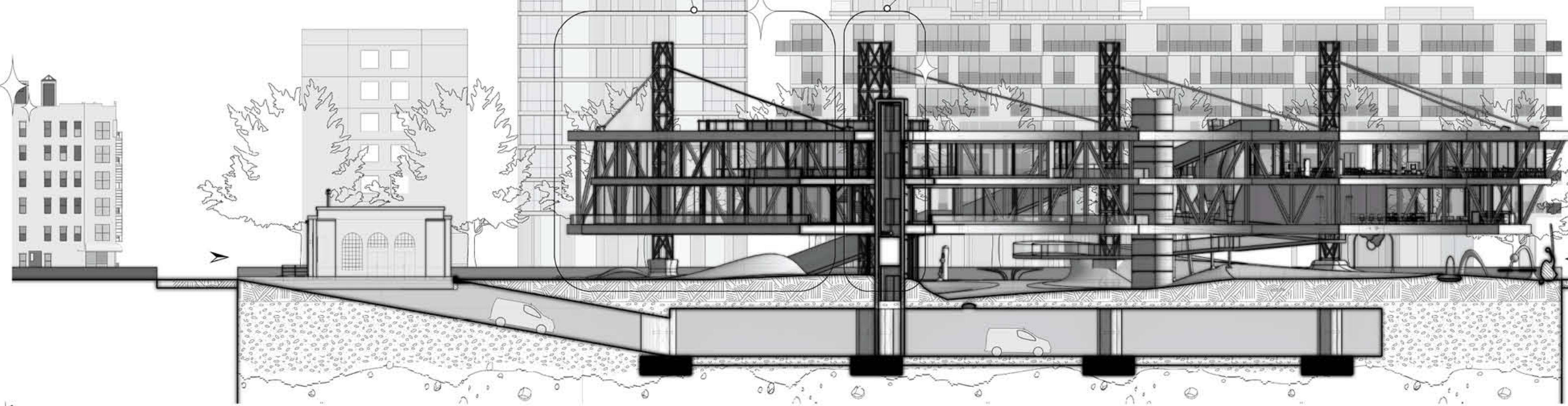
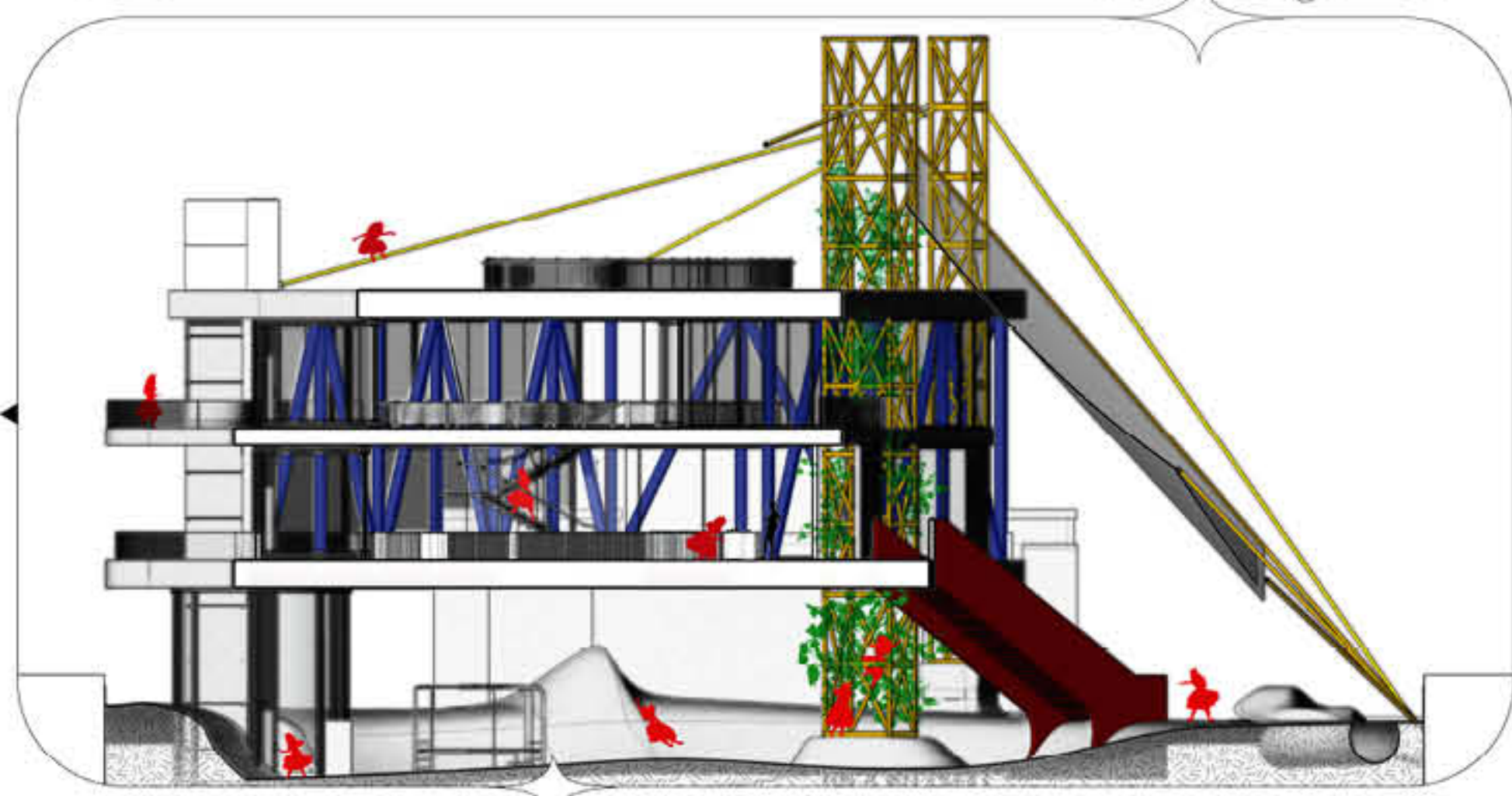
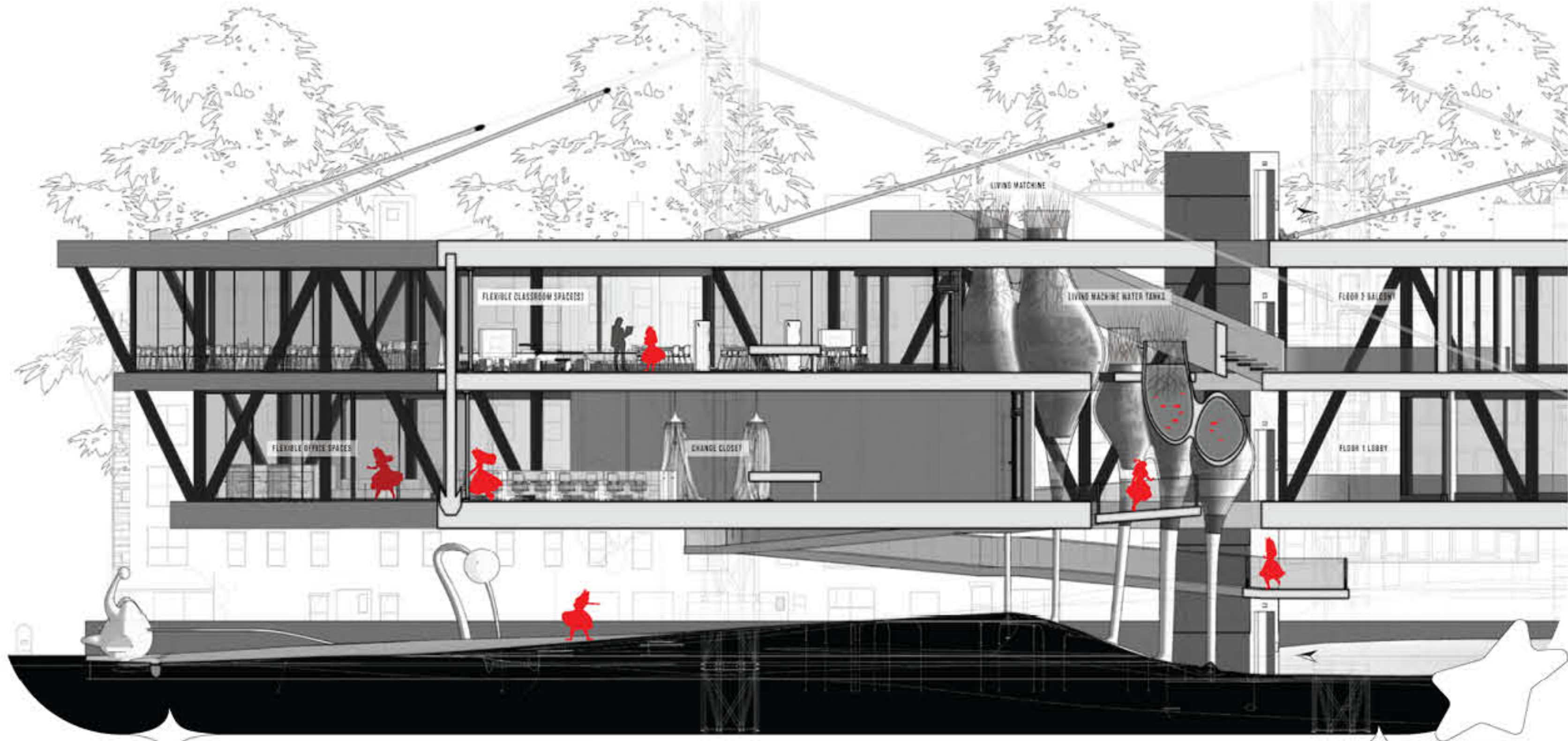
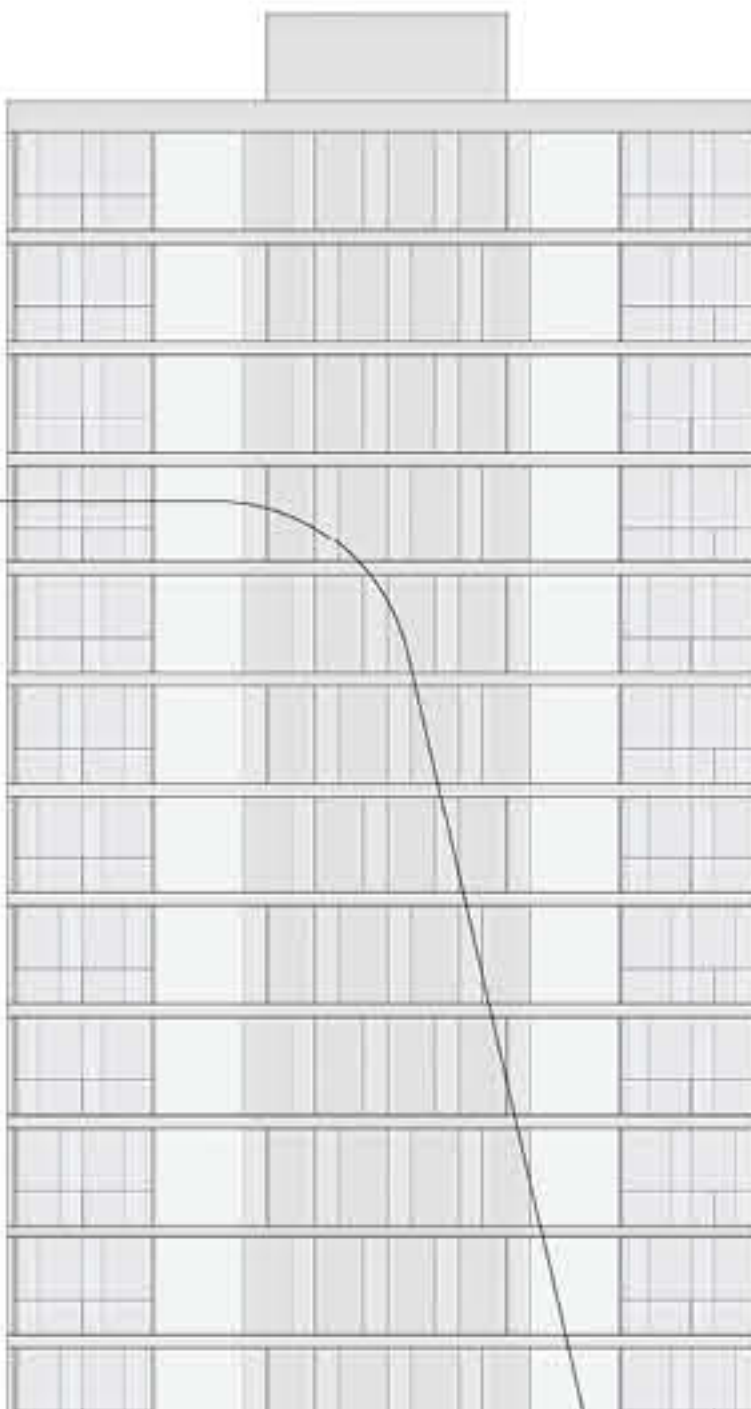
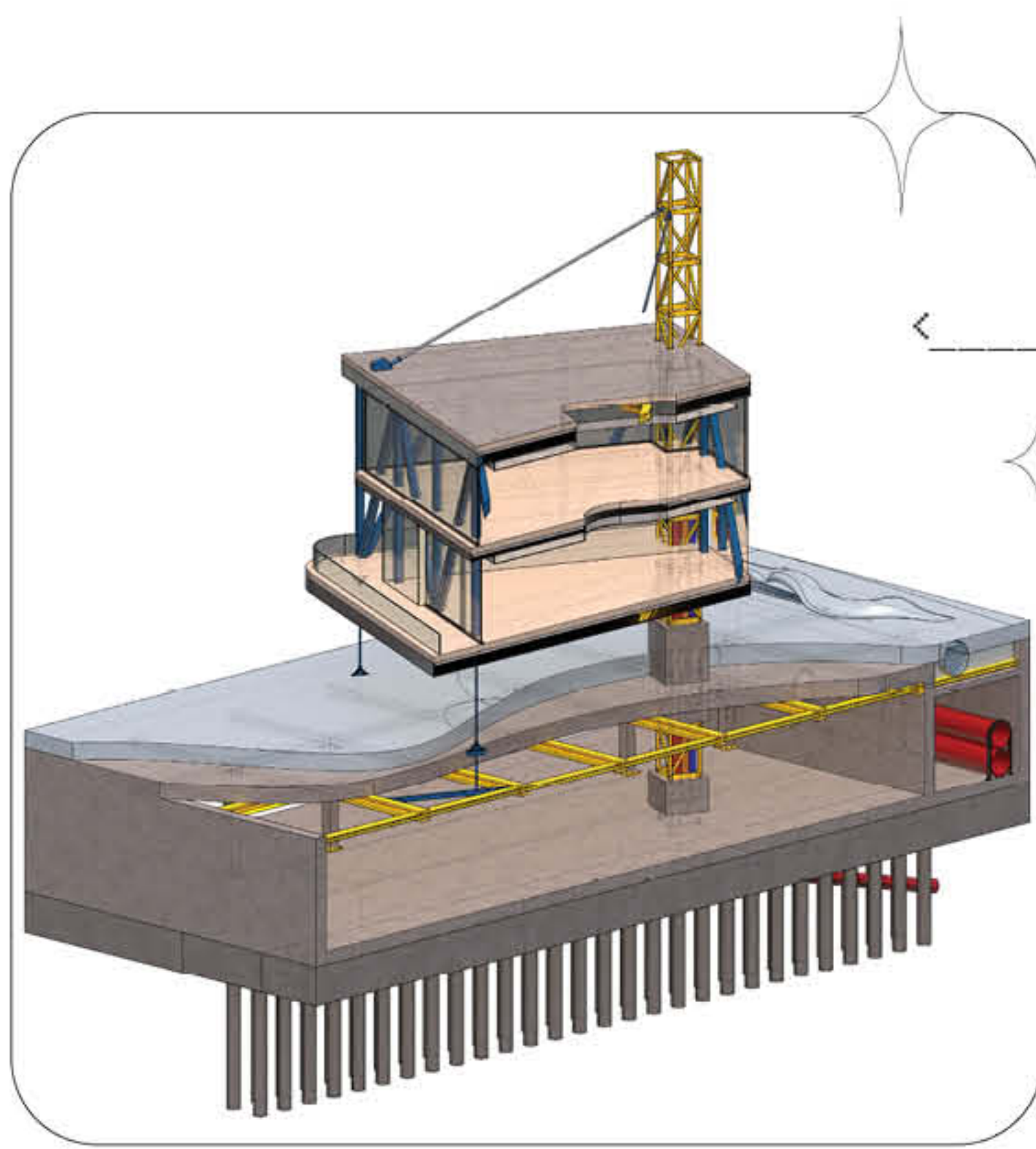
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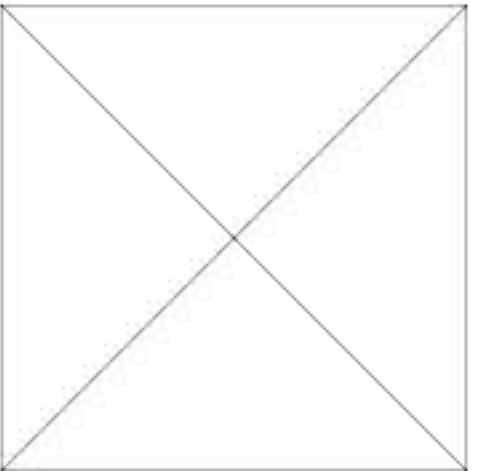


NORTH ELEVATION  
24"X36"  
1/8"=1'-00"

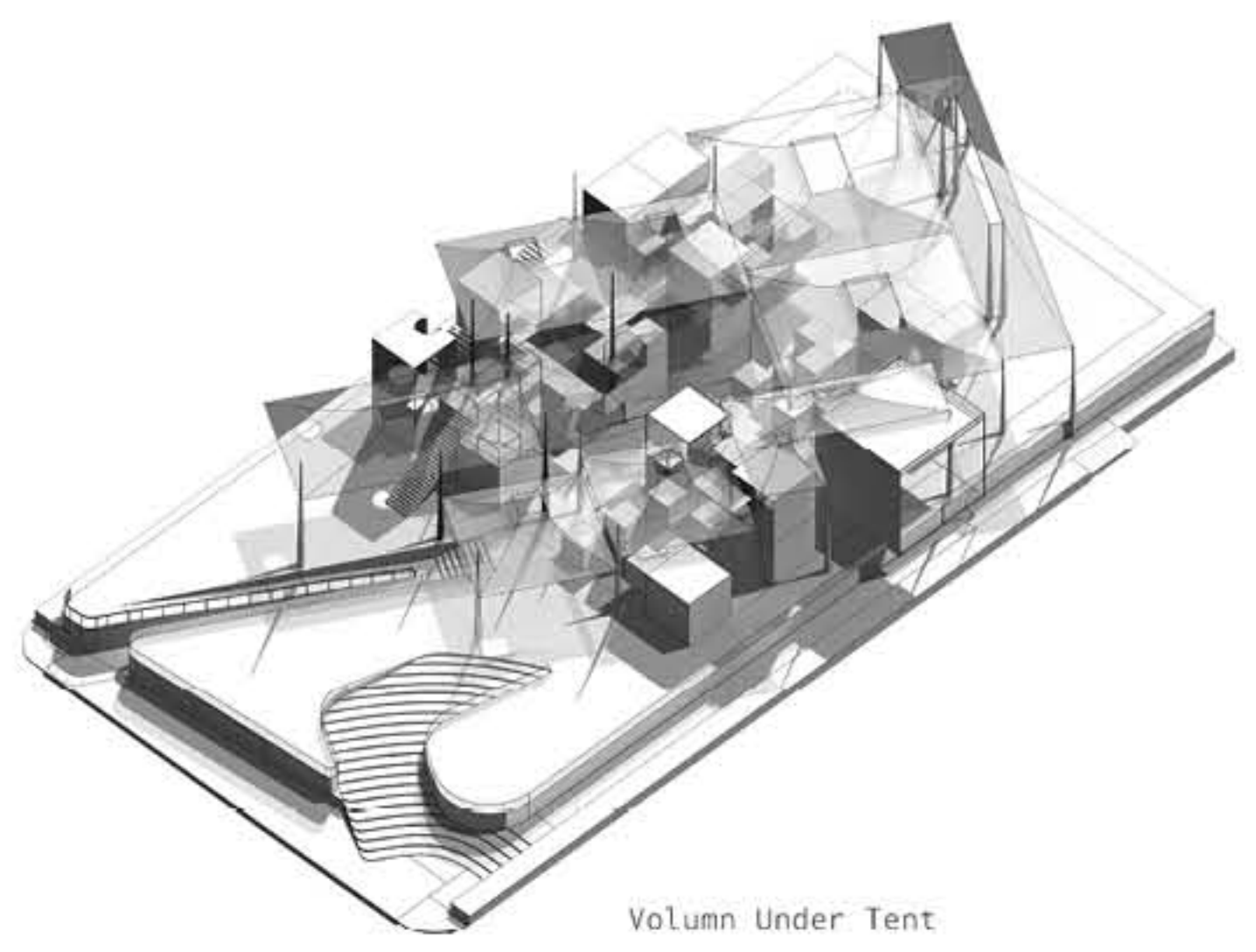


- TOP OF TRUSS +75'-00"
- TOP OF ELEVATOR +56'-08"
- ROOF +48'-02"
- FLOOR 2 +31'-07"
- FLOOR 1 +17'-00"
- ENTRY +12'-00"
- STREET LEVEL 0'-00"
- PLAYGROUND -5'-00"
- UNDERGROUND PARKING -24'-04"
- SLAB OF FOUNDATION PILES -30'-04"

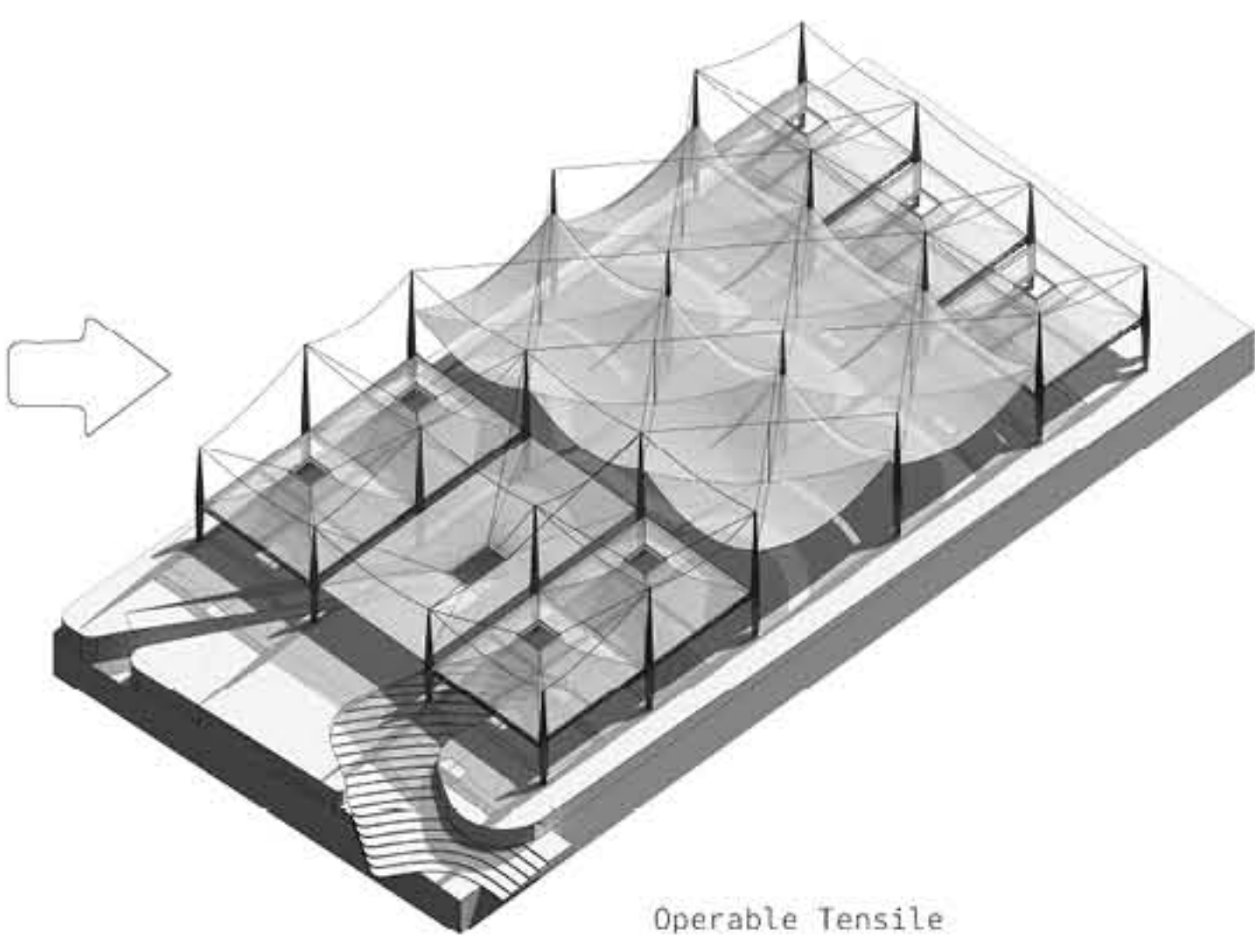




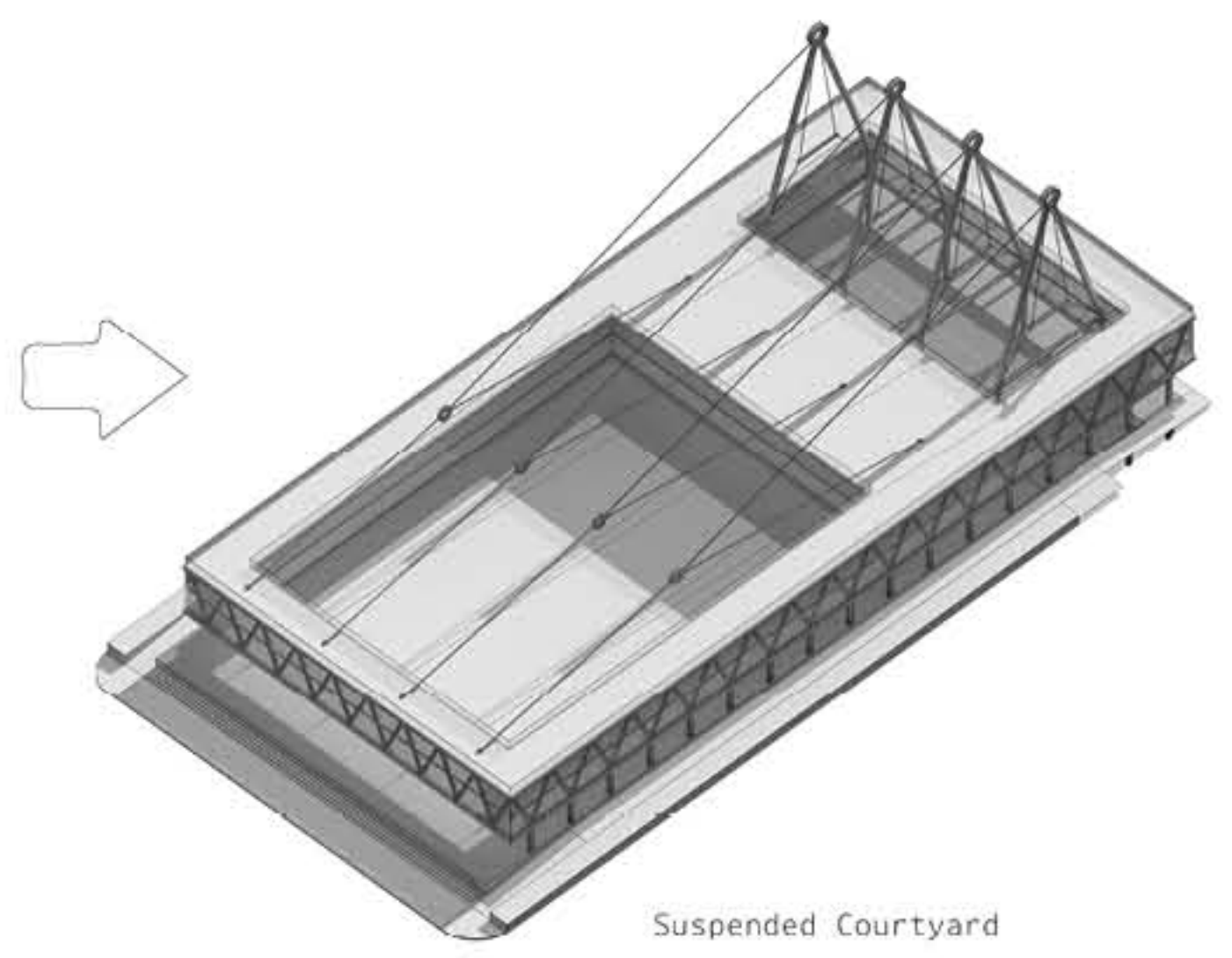
LASER + CNC + 3D-PRINT MODELS PARKSIDE EXCHANGE 302\_SP2023



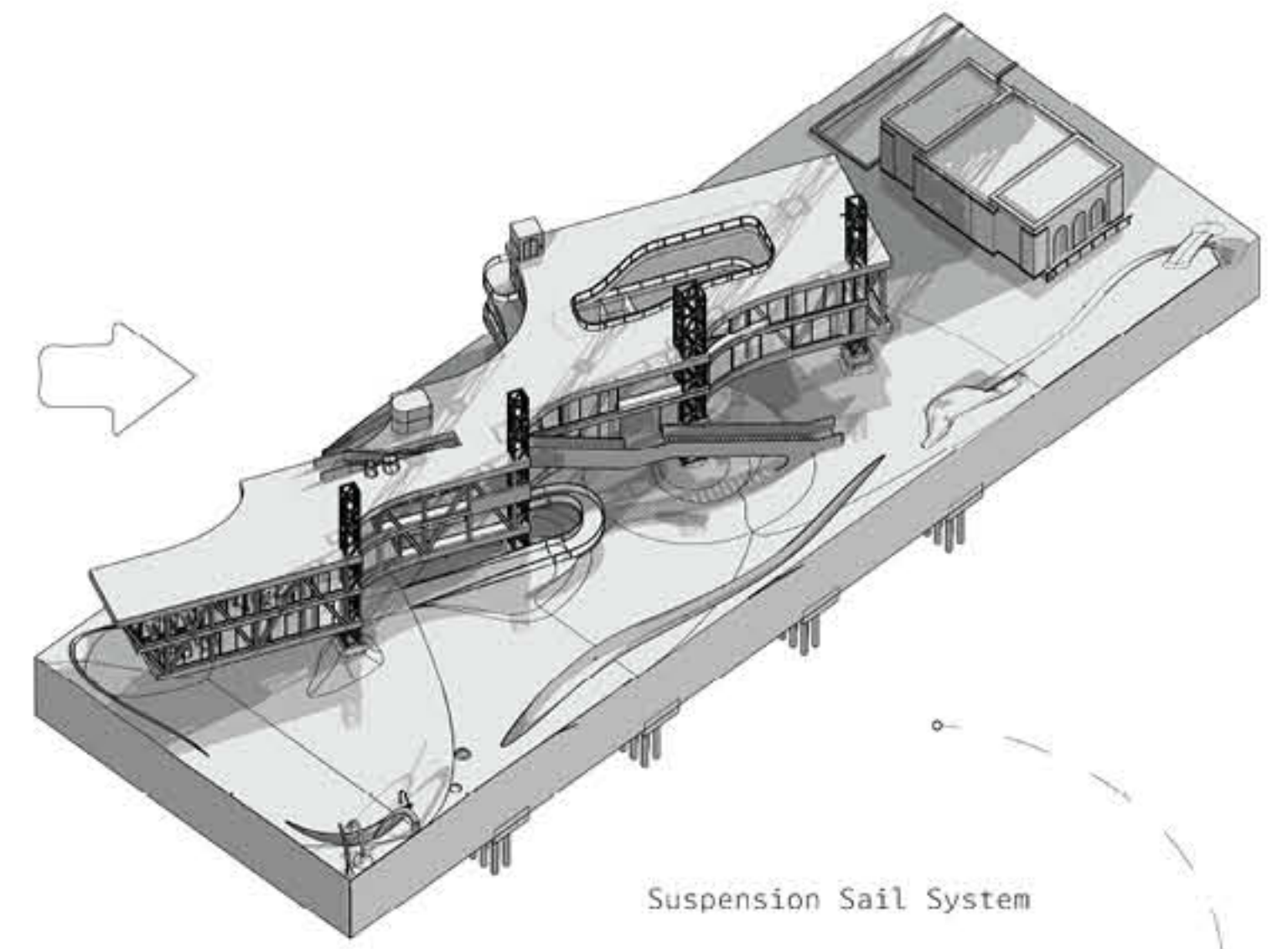
Volumn Under Tent



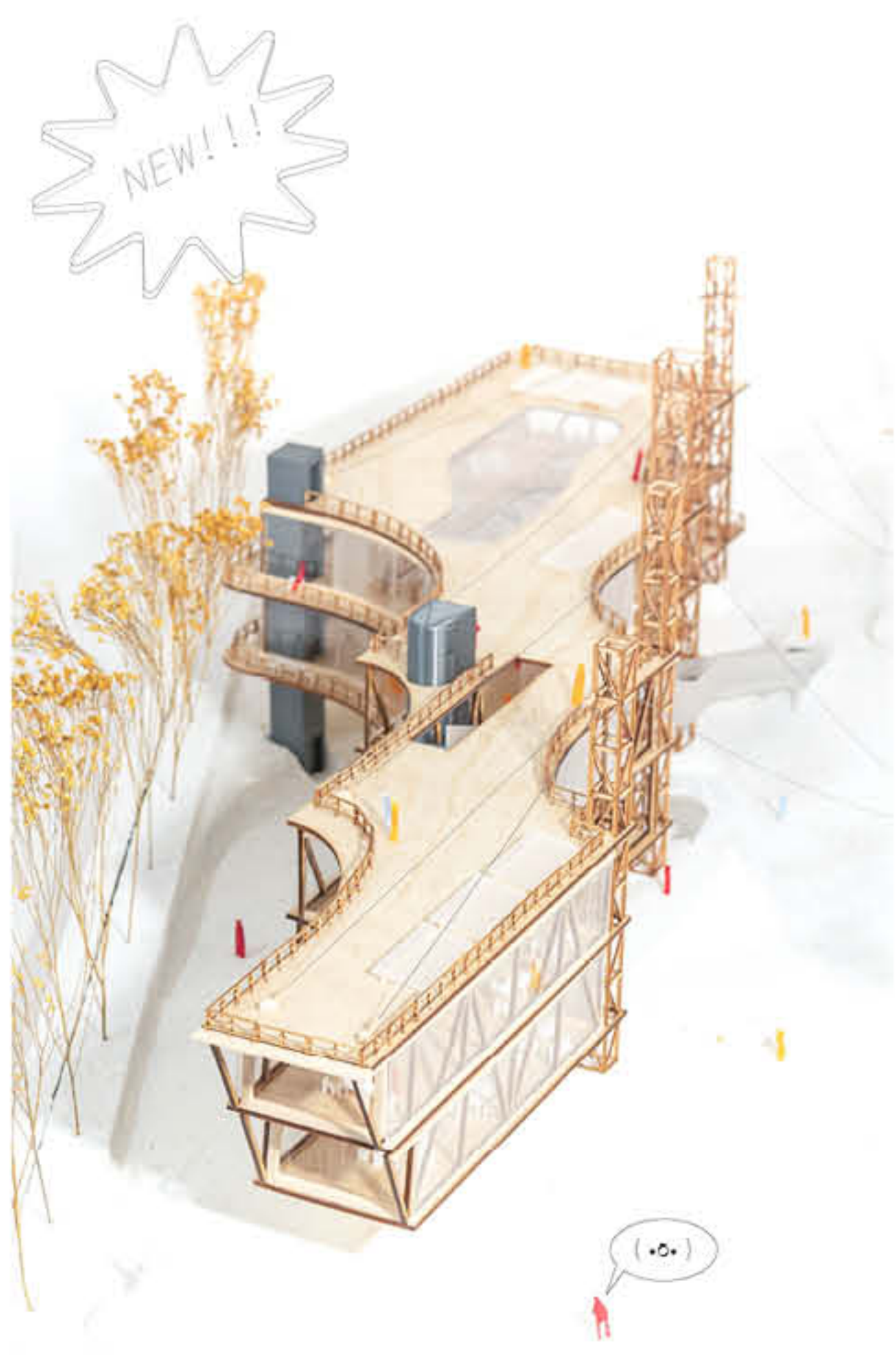
Operable Tensile



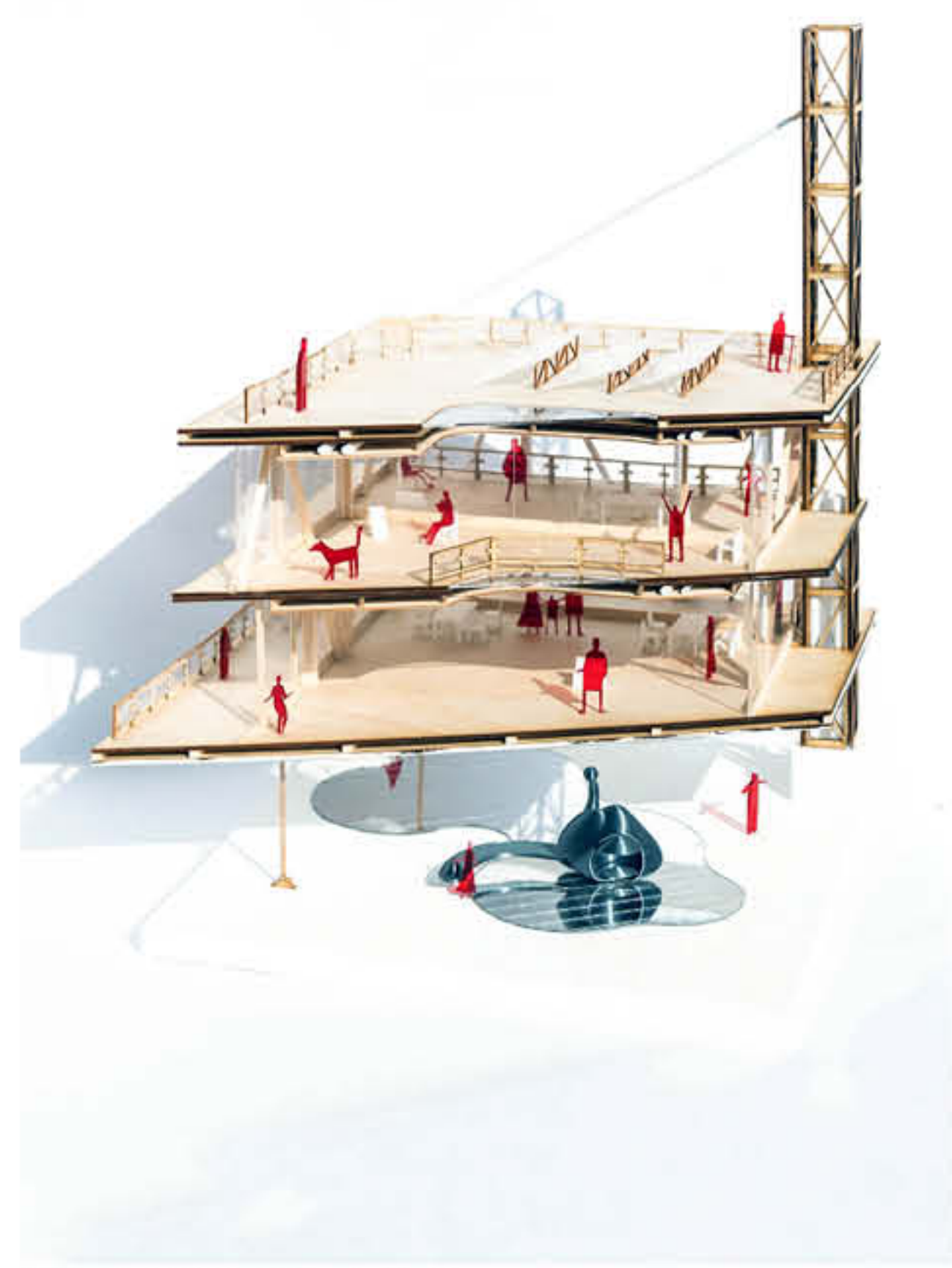
Suspended Courtyard



Suspension Sail System



1/8"=1'-00" Final Model



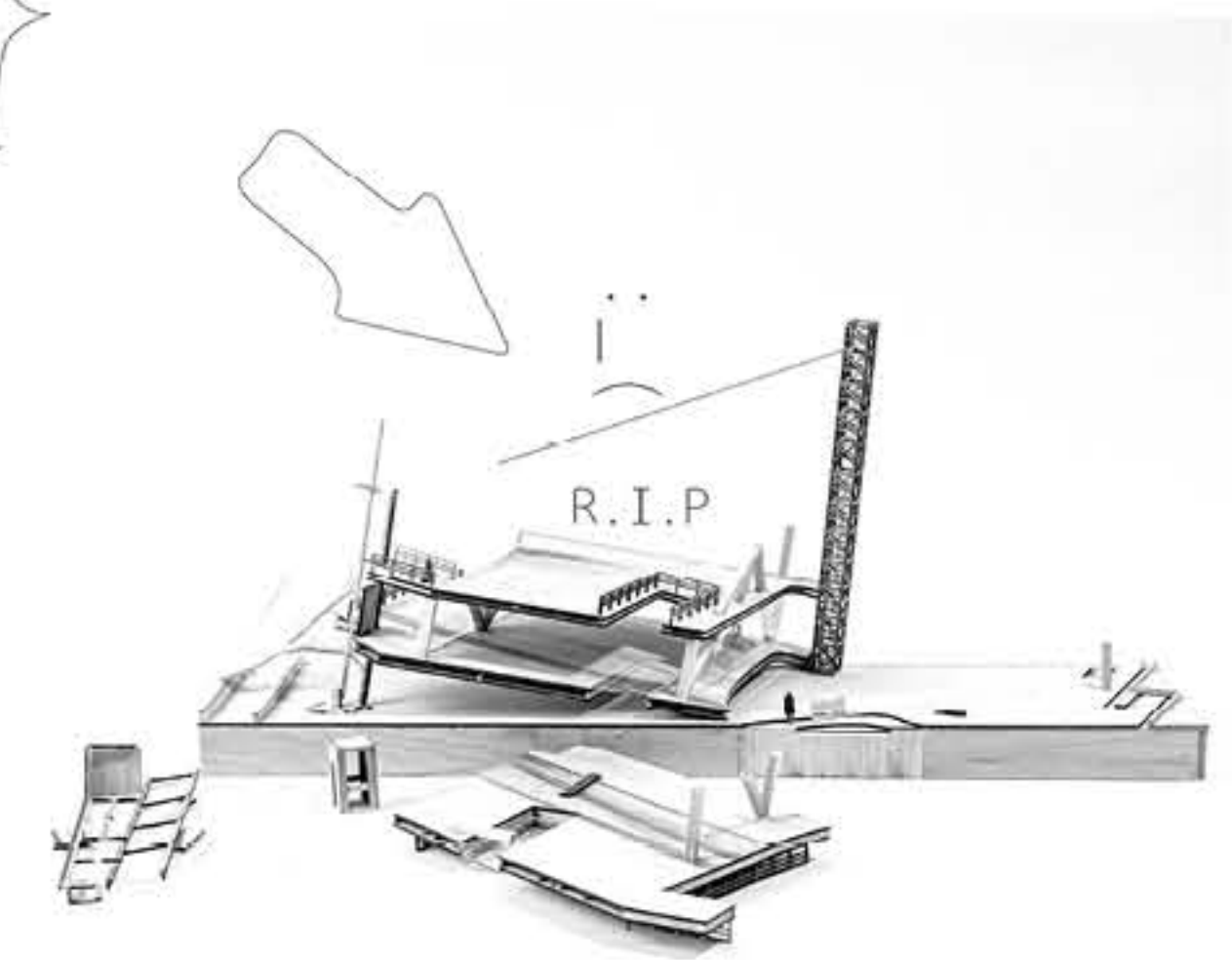
1/4"=1'-00" Final Chunk Model



1/8"=1'-00" Laser Plywood,CNC foam, 3D Print



1/32"=1'-00" Iteration Basswood Model

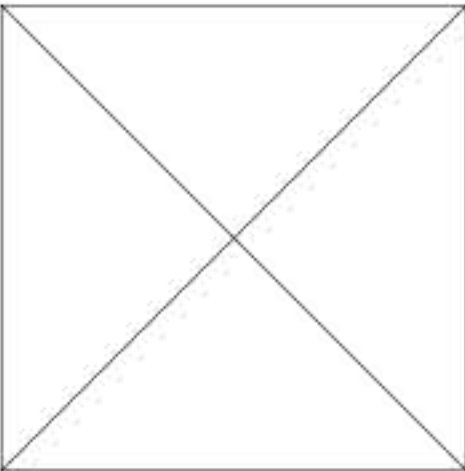


1/16"=1'-00" Chunk Iteration Broken :\_(

PHYSICAL MODELS





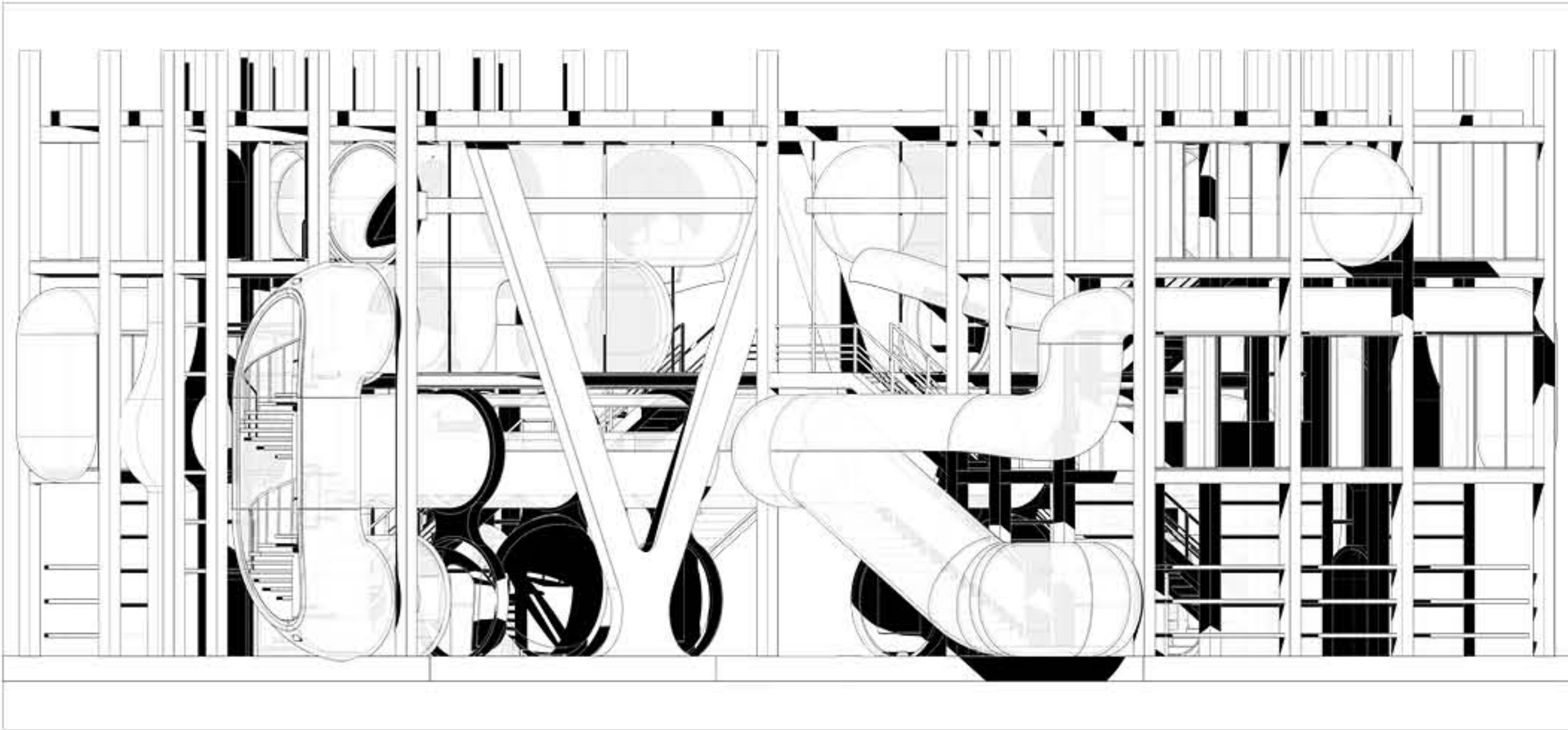
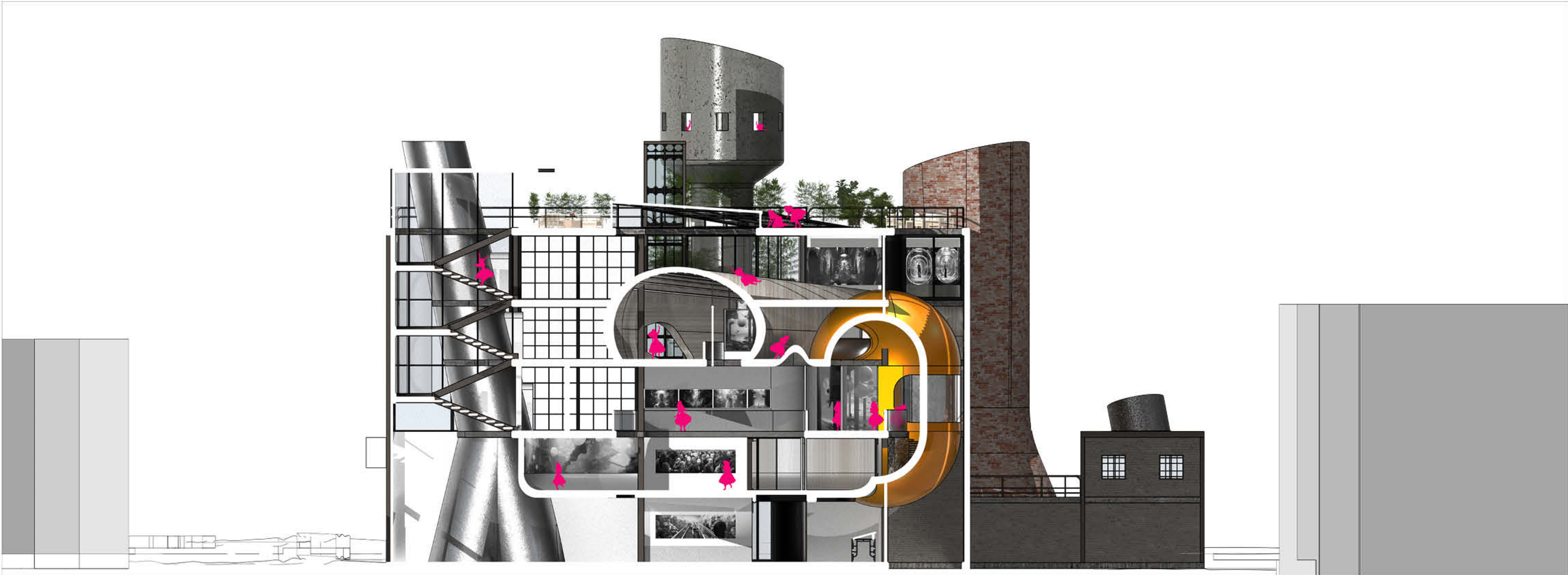


402\_FA2023

PHOTO FACTORY

INTRODUCTION

RHINO + PS + AI + VRAY



**PHOTOGRAPHY FACTORY MUSEUM**

Bush Terminal Industrial City, Brooklyn, New York  
Museum for Photography and Viewing  
Advance Design 402 - Fall 2023 - Prof. Adam Elstein

The fascination with industrial typologies sparked the inception of the Museum of Photography project, exploring the visual interests captured through the lens. Both photographers and architects, such as the Beckers and Le Corbusier, have found industrial forms to be captivating spaces for creative production. Le Corbusier famously referred to silos as ‘the first fruits of the New Age’ in “Vers une architecture.” The raw, functional beauty of industrial structures provides a unique canvas for artistic expression and appreciation.

With the advent of AI, design technology has undergone a significant shift. AI has absorbed and analyzed vast amounts of information within just 18 months of its public introduction. By leveraging AI as a vast language library, designers can swiftly curate iterations through simple commands and descriptions, shaping a methodology for both schematic and developmental design processes. This symbiotic relationship between human



creativity and artificial intelligence promises to push the boundaries of design in unprecedented ways.

Just as the birth of the camera revolutionized art, one ponders the potential impact of AI on creative processes. Could AI, armed with information equivalent to humanity’s collective knowledge, render cameras obsolete, relying solely on imaginative descriptions? This project explores these questions and yields a valuable design process methodology applicable to the initial phases of future projects.

Driven by personal interest and the studio’s focus, the museum program became a natural fit. Placing the museum gallery within an industrial context in Brooklyn, particularly in the vibrant areas of Red Hook and Sunset Park, aligns with the community’s rich creative heritage. A museum with industrial-inspired architecture provides a fitting platform for local photographers to exhibit their work, fostering a symbiotic relationship between art and the community’s textile fabric. The design project was selected as an advanced studio distinguished project, which was given a platform to showcase, discuss, and receive feedback from architecture industry professionals.



NORTH SECTION  
ITERATION-02  
DRAWINGS





402\_FA2023

PHOTO FACTORY

RENDERING

UNREAL ENGINE 5 + PS BETA



“A FINAL PRODUCT”

Image: Exterior Day View of Museum  
Site: Redhook, Brooklyn, New York  
Program: Photography Museum





402\_FA2023

PHOTO FACTORY

"JOINTERS"

CANON R6 + LRCC + PS



SUNSET PARK  
BK-ARMY-TERMINAL  
INDUSTRIAL CITY



The Museum of Photography project began with an exploration of what captures the eye through the camera lens, igniting an interest in industrial typologies. Both the eye and lens are consistently drawn to industrial scenes characterized by raw materials, vivid colors, striking geometry, and sheer scale. This visual fascination with the industrial world sparked the desire to create an exhibition space celebrating photographic works that document these captivating industrial aesthetics.

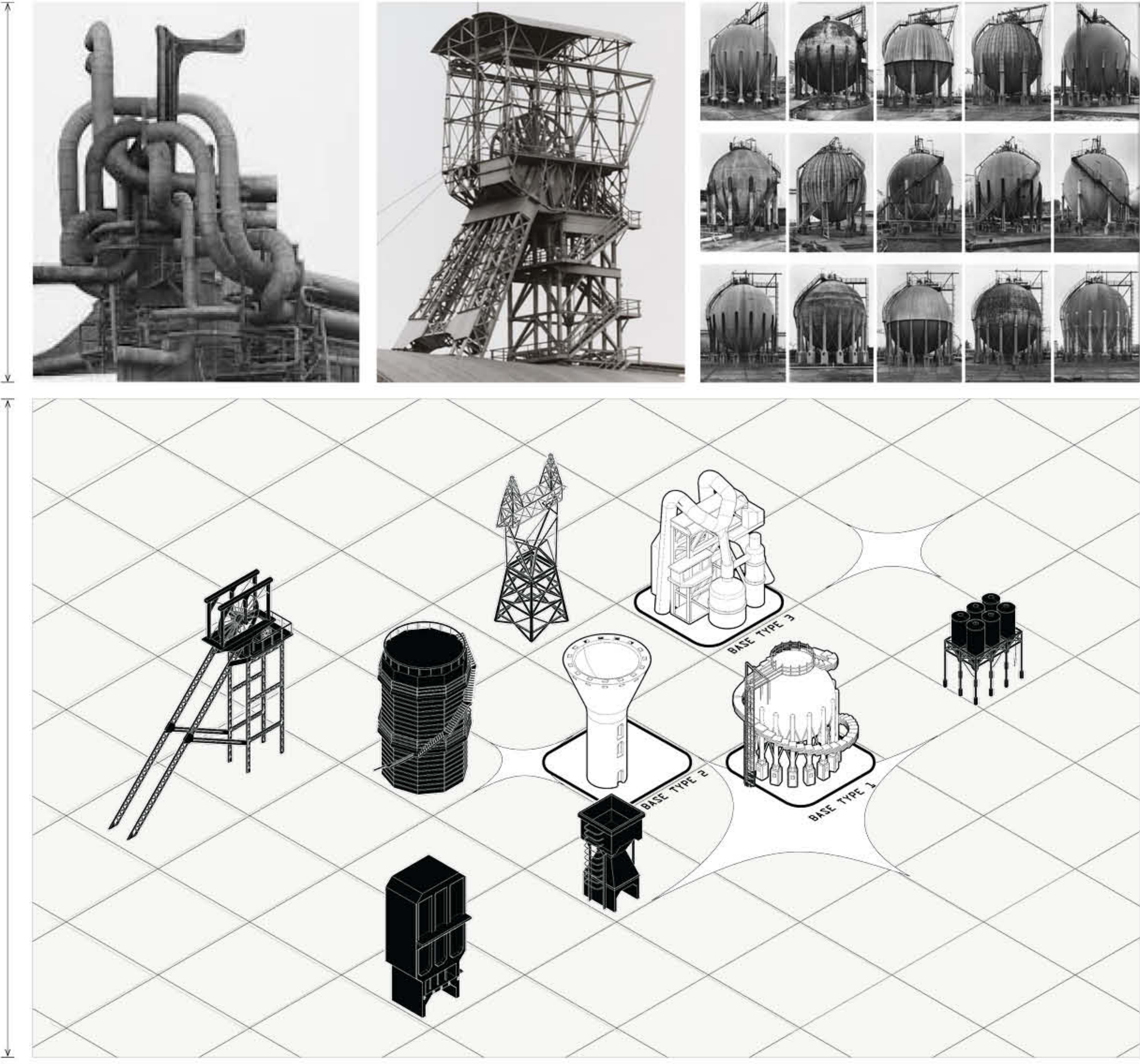




402\_FA2023  
PHOTO FACTORY  
RESEARCH  
RHINO + AI + MID-JOURNEY

ANALYSIS OF INDUSTRIAL TYPOLOGIES

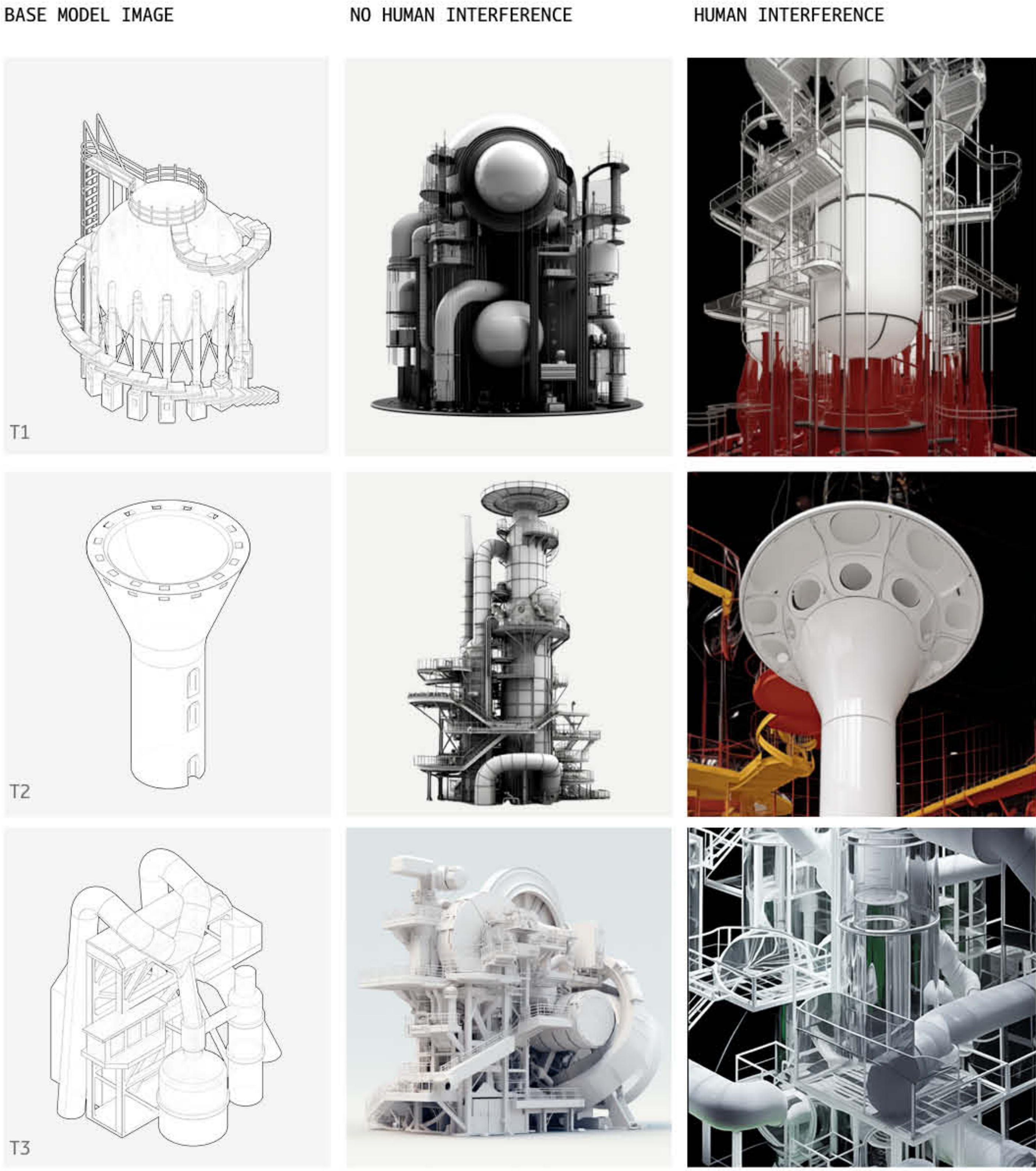
BERND & HILLA BECHER INDUSTRIAL LANDSCAPES AND COLLAGES



Type 01: Gas Tanks  
Type 02: Water-towers  
Type 03: Blast Furnaces

RESEARCH  
PERCEIVE  
ANALYSIS

AI ANALYSIS OF INDUSTRIAL TYPOLOGIES (PART-01)



Photographers are drawn to the captivating geometric beauty and the interplay of light and shadow in industrial environments. Through typology studies and the integration of AI, the design process has advanced, navigating the complexities of intellectual property by leveraging proprietary materials. This innovative approach ensures that human creativity remains at the forefront while harnessing the capabilities of AI.



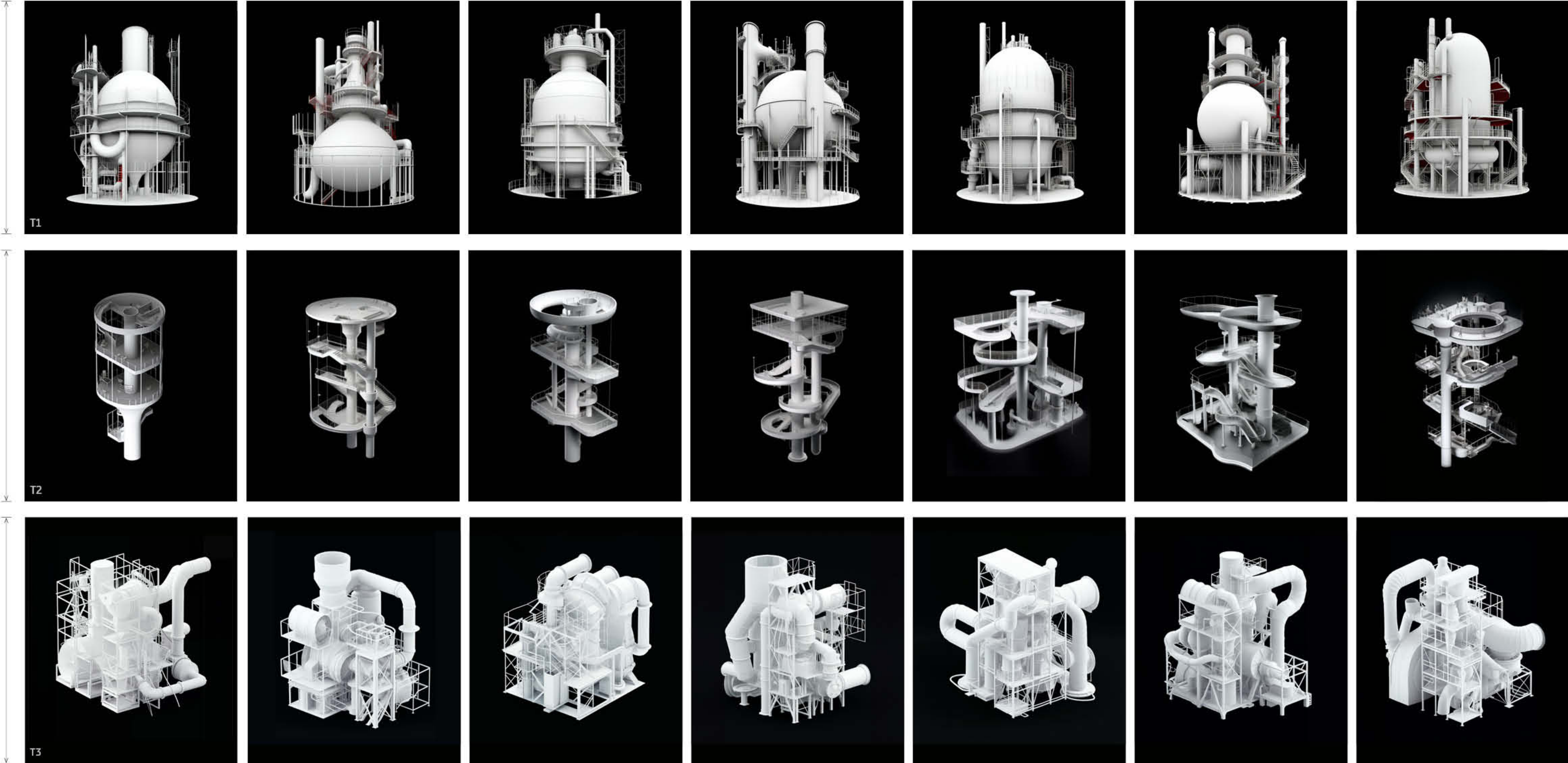


402\_FA2023  
PHOTO FACTORY  
TYPOLOGY LIBRARY  
MID-JOURNEY

AI FEEDBACK FORMATION LIBRARY (PART-02)

AI + HUMAN INTERFERENCE

Full prompts & library available upon request



AI GENERATED  
INDUSTRIAL  
FORMS

No Human Interference: AI independently analyzes and describes based on a base model image, without human input.  
Human Interference: AI is guided by a prompt related to design programs, with the base model image serving as a reference.  
AI + Human Interference: Collaboration involves AI-generated images blended with previous ones under human prompt guidance.



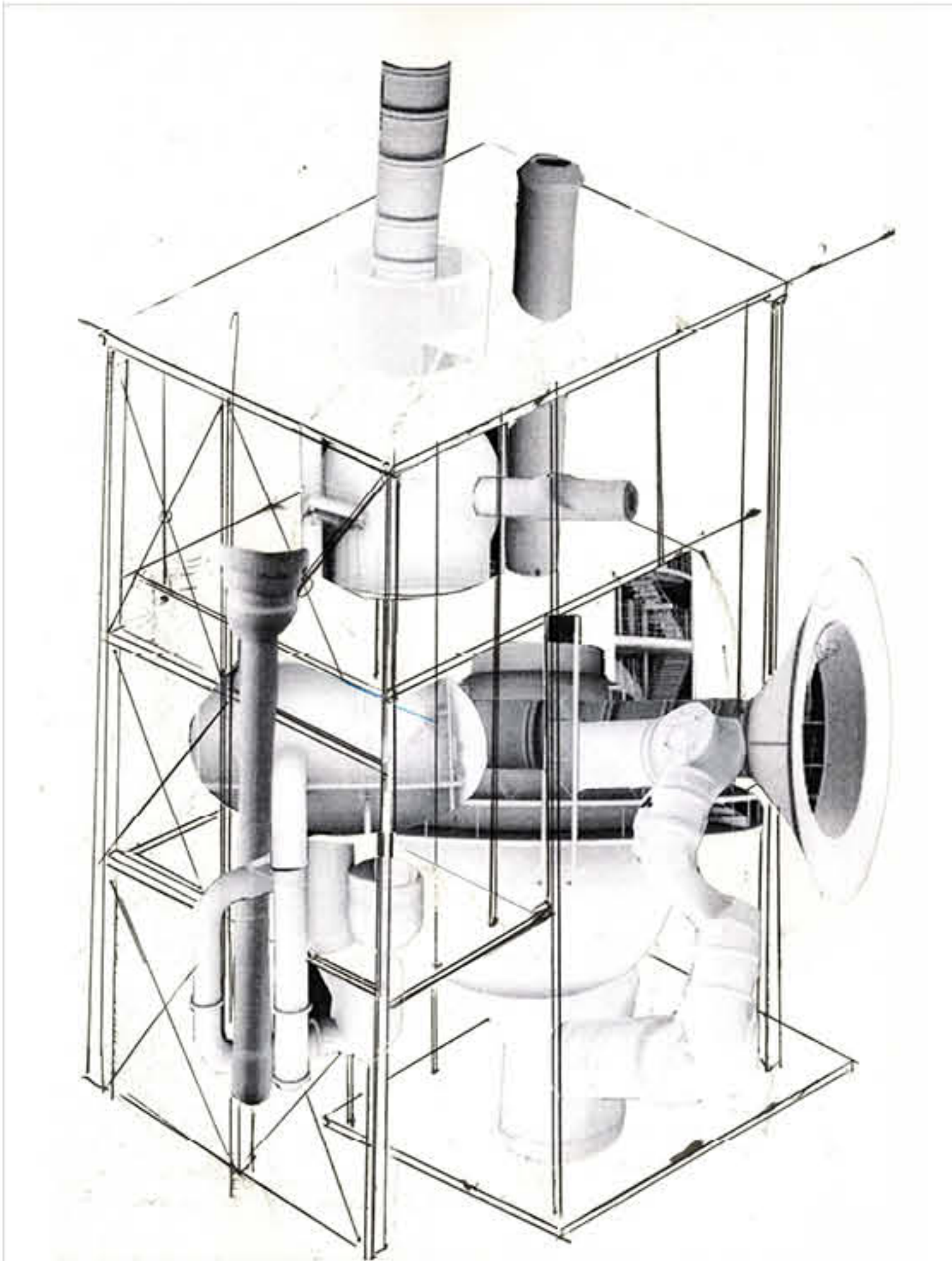


402\_FA2023  
PHOTO FACTORY  
SCHEMATIC DESIGN  
PAPER-COLLAGE + MID-JOURNEY

SCHEMATIC DESIGN  
PROCESS  
FORM MASSING

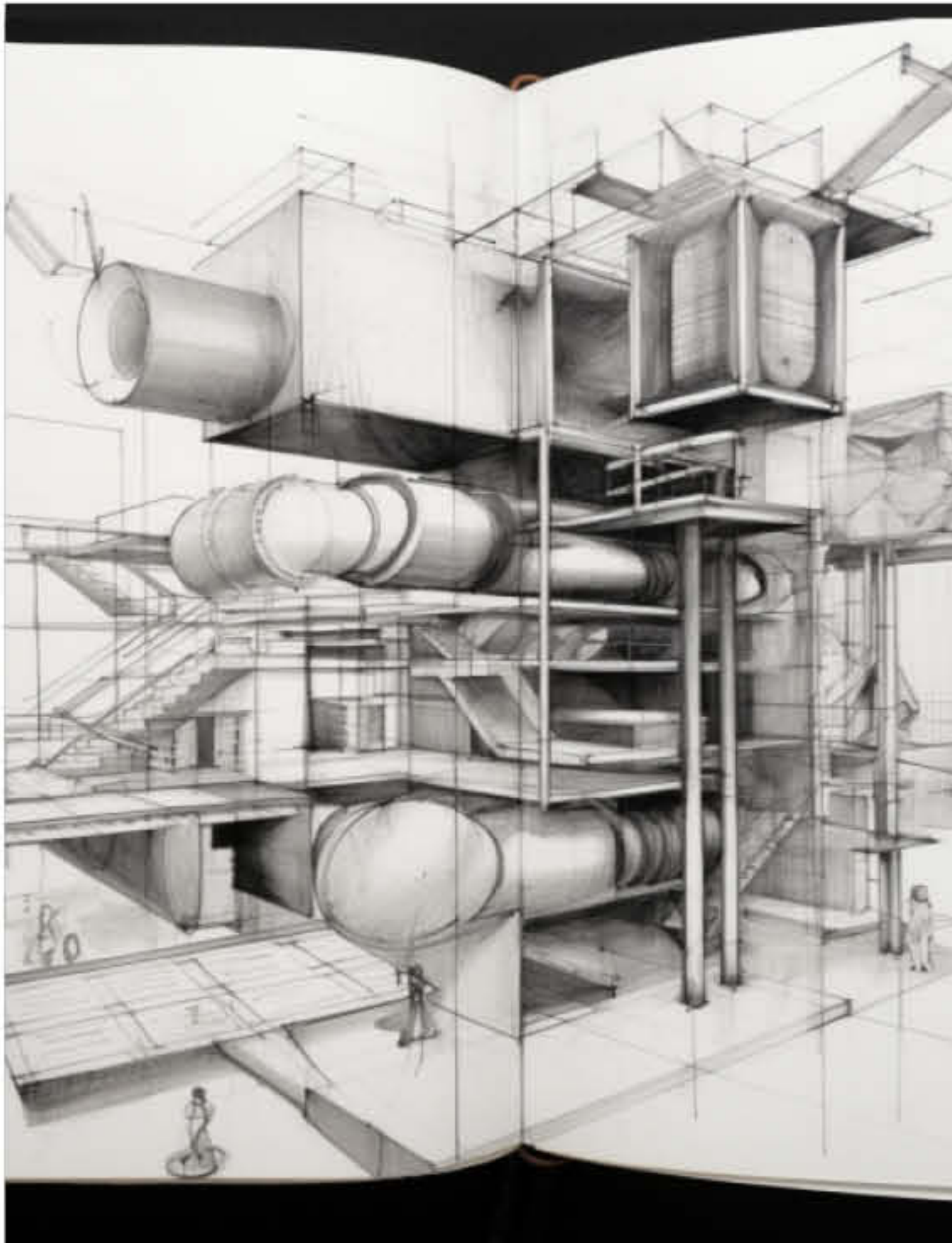
AI-MASSING DEVELOPMENT (PART-03)

BASE MODEL IMAGE:



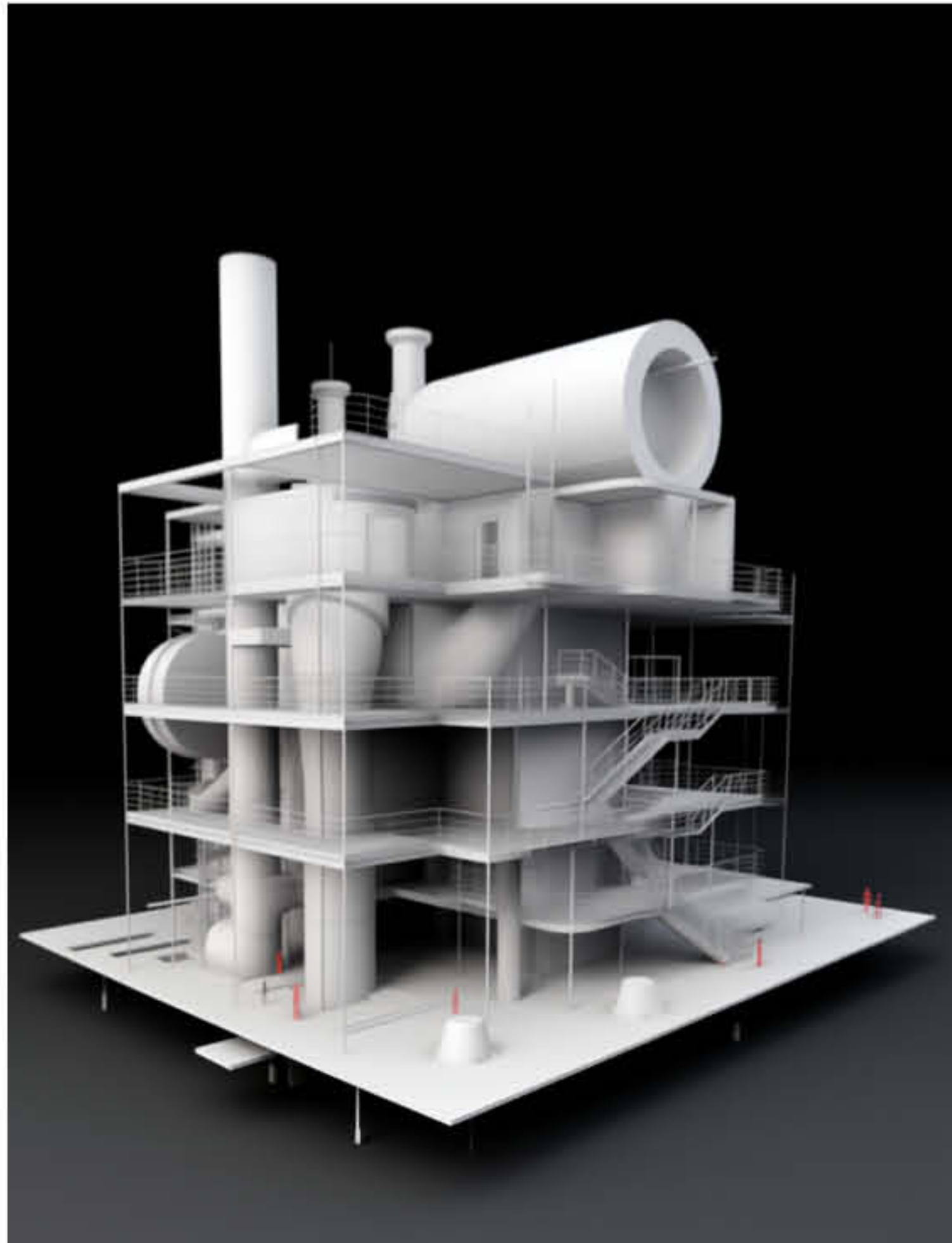
Hand-cut and glued collage from previous ai typologies

NO HUMAN INTERFERENCE



/Imagine: prompt: collage image as reference, architecture drawing, museum, pipes, volume, suspended floors, tension

HUMAN INTERFERENCE



/Blend: [ image # 1: Ai Collage Redevelope], [ image # 2: TYPE-X IMAGE], a museum design, architecture, pipes, volumes, suspended floors.

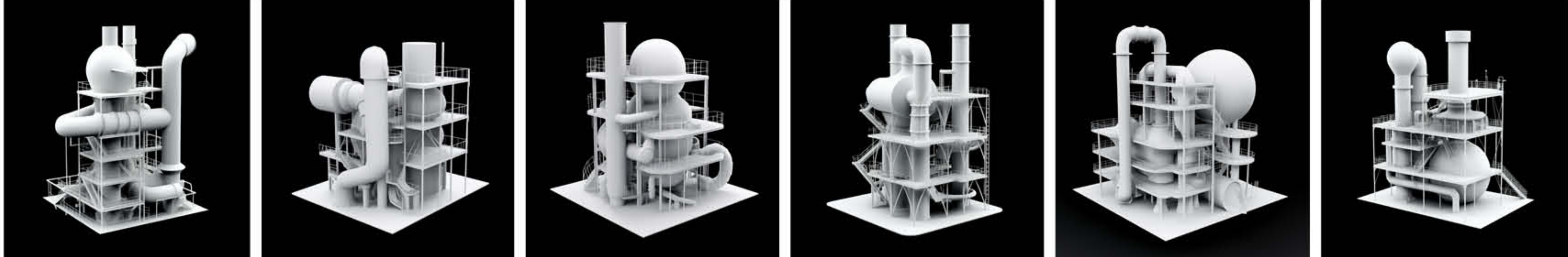
AI + HUMAN INTERFERENCE



/imagine: prompt: [round-2-image], architecture rendering, museum design, architecture, pipes, volumes, suspended floors.

MORE AI GENERATIONS/FORMATIONS  
[Full library can be provided upon request]

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Part 01: AI analyzes and builds upon Bechers' works.  
Part 02: AI generates designs from reference & base model.  
Part 03: AI & Humans collaborate blend images with prompts.



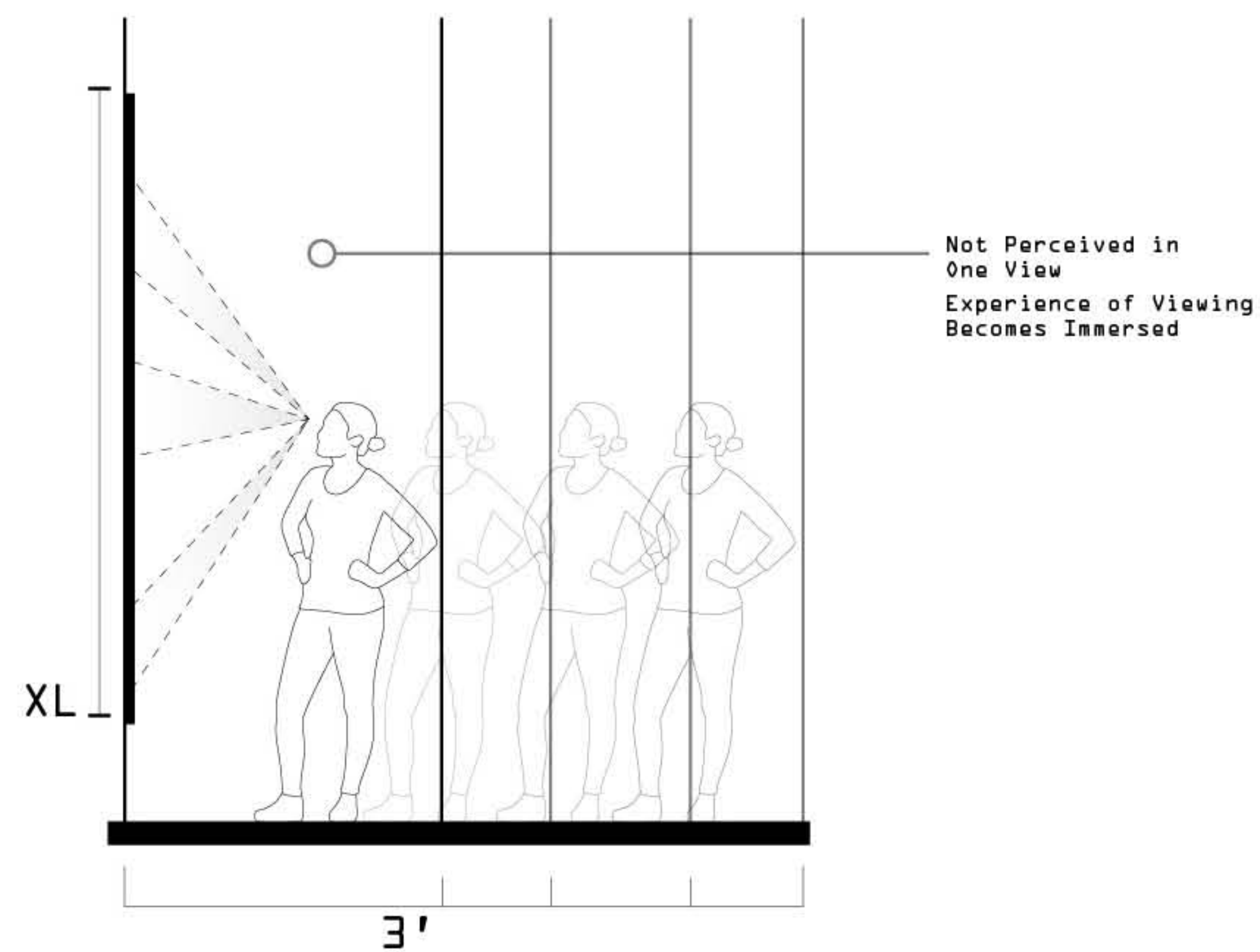
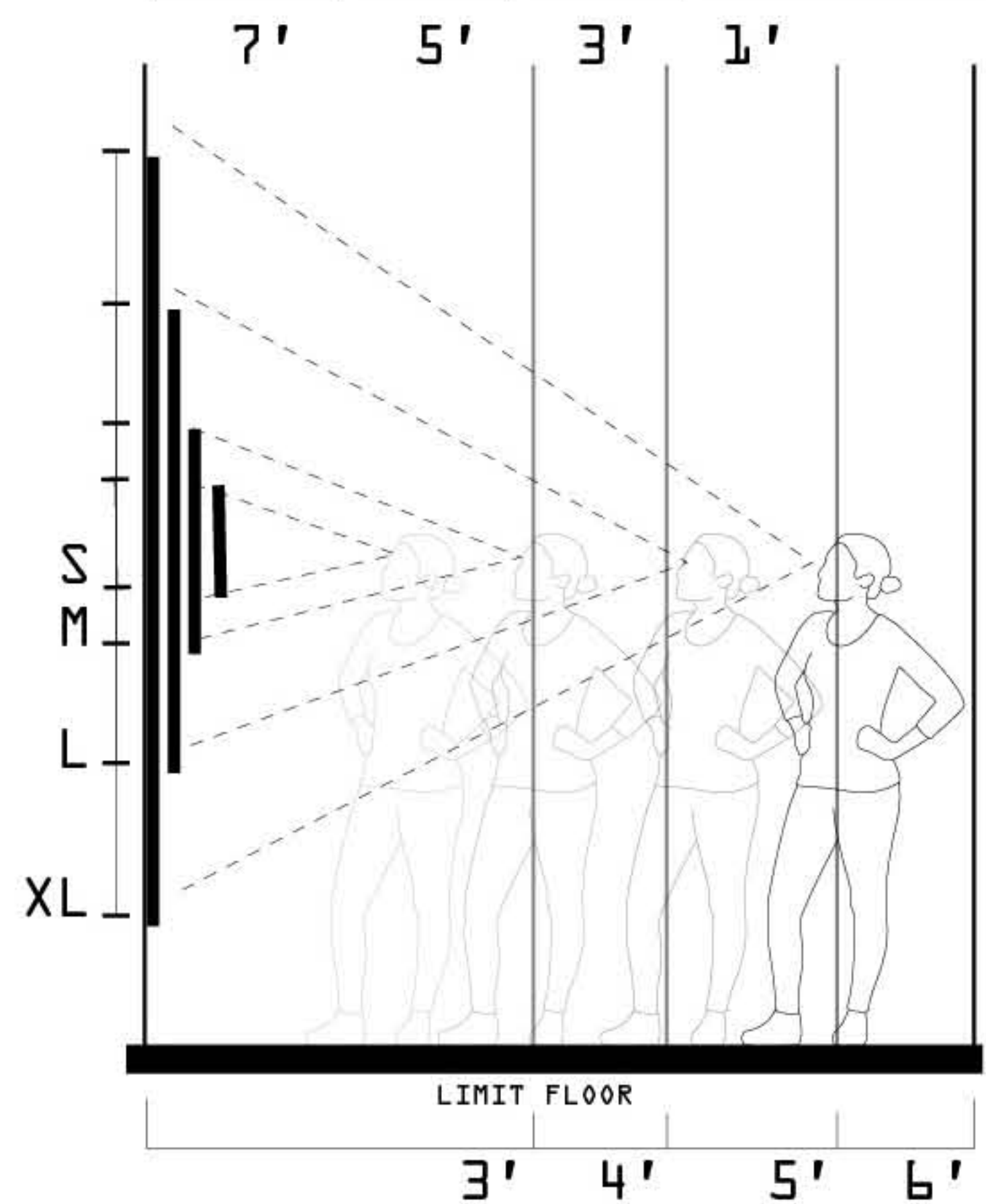
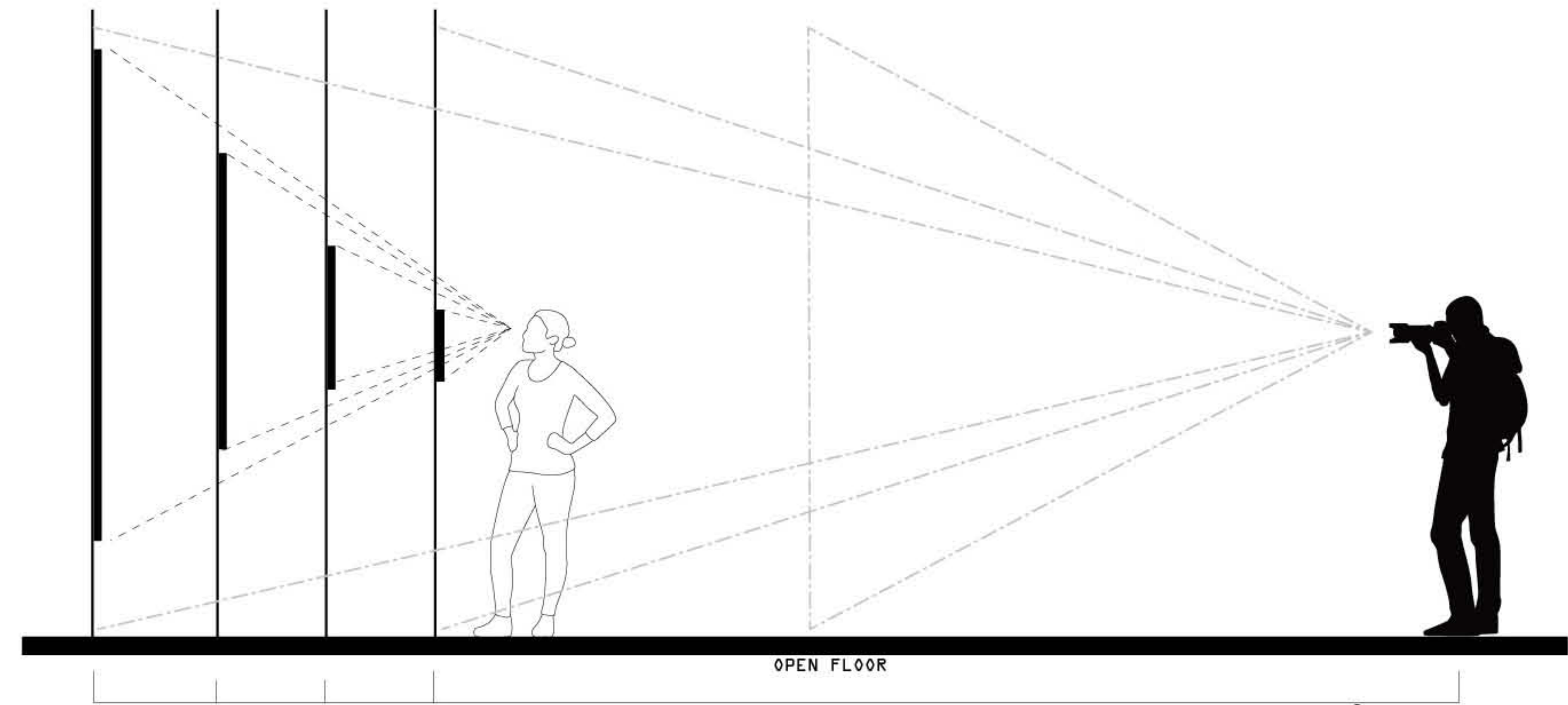
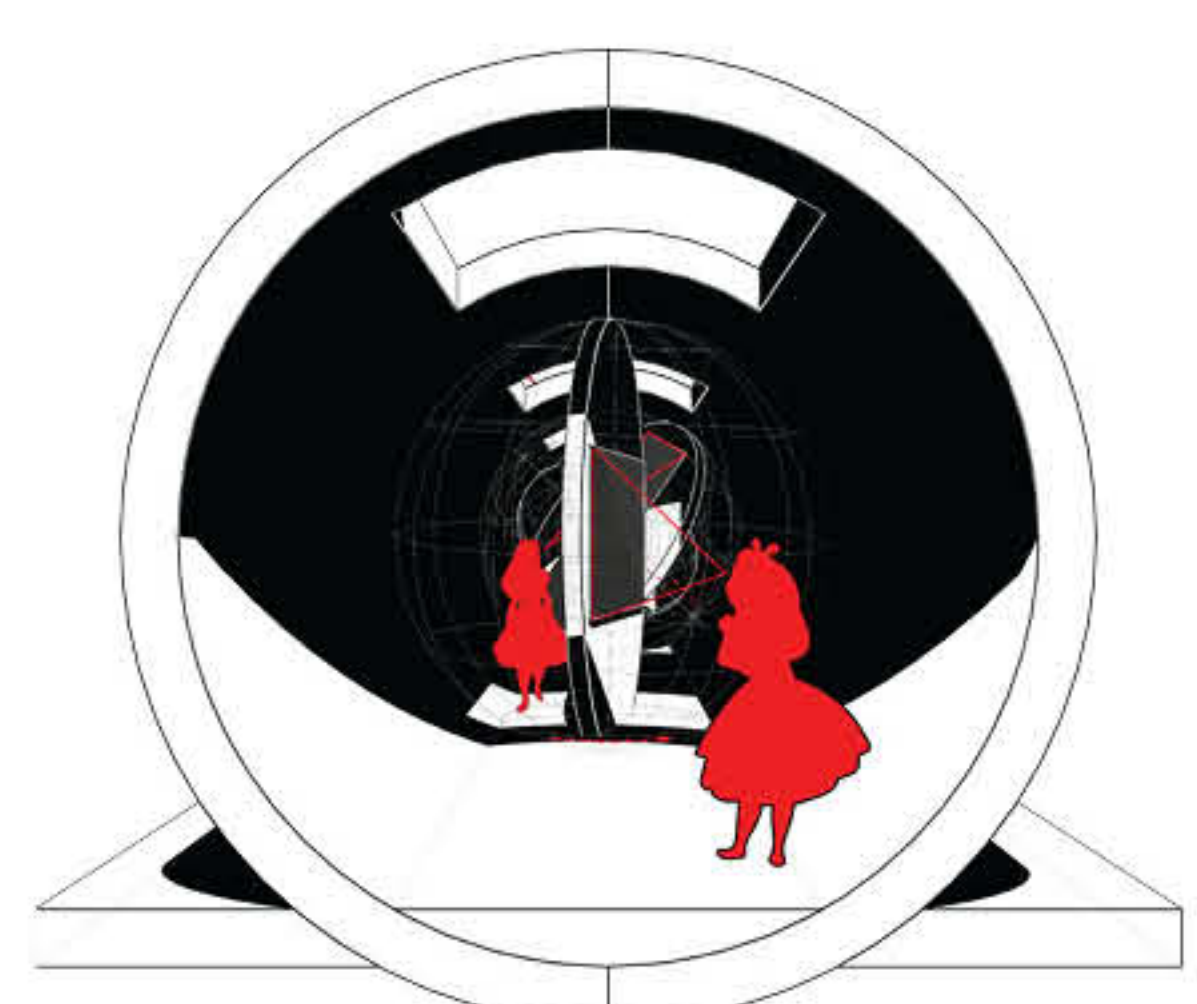
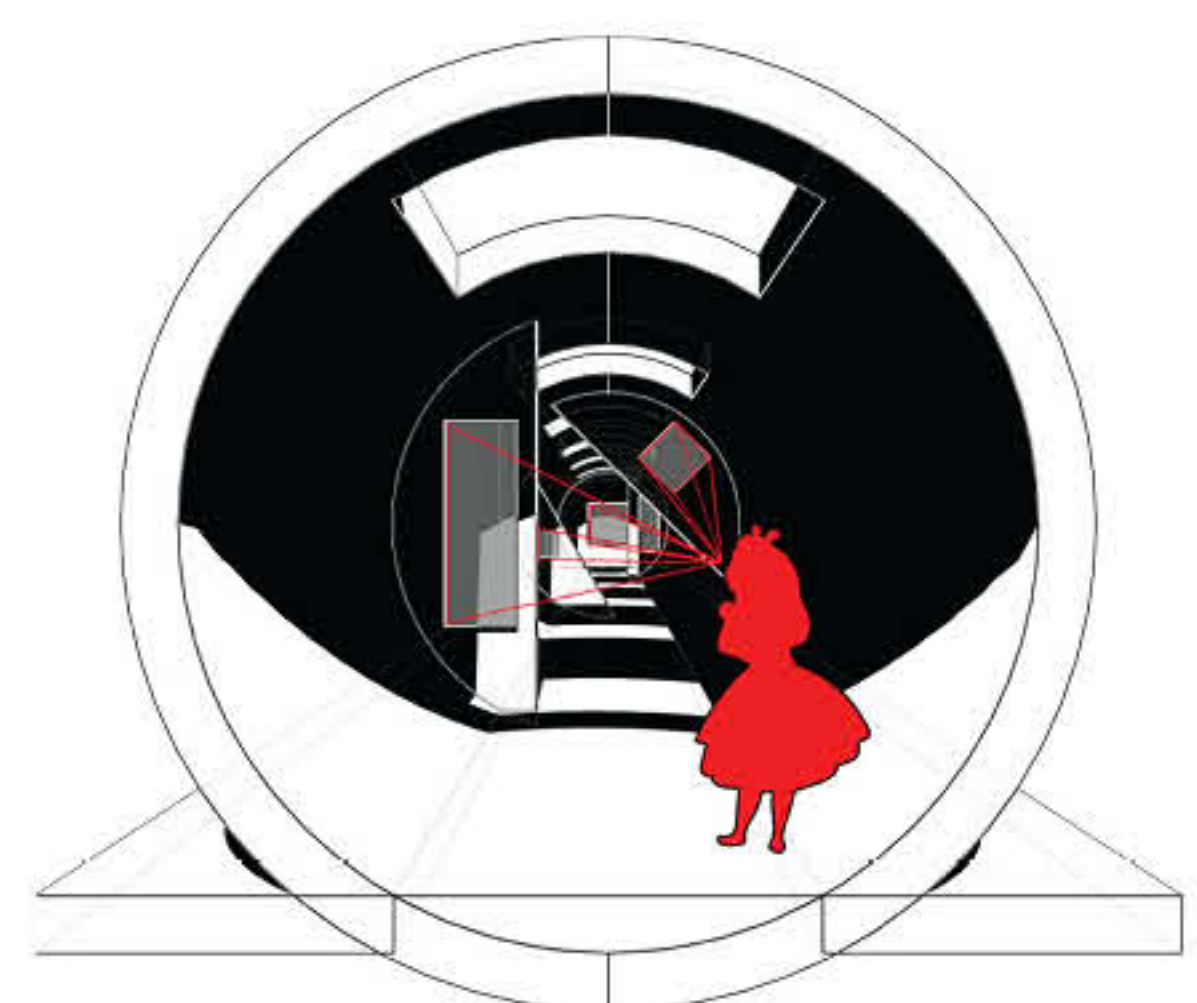
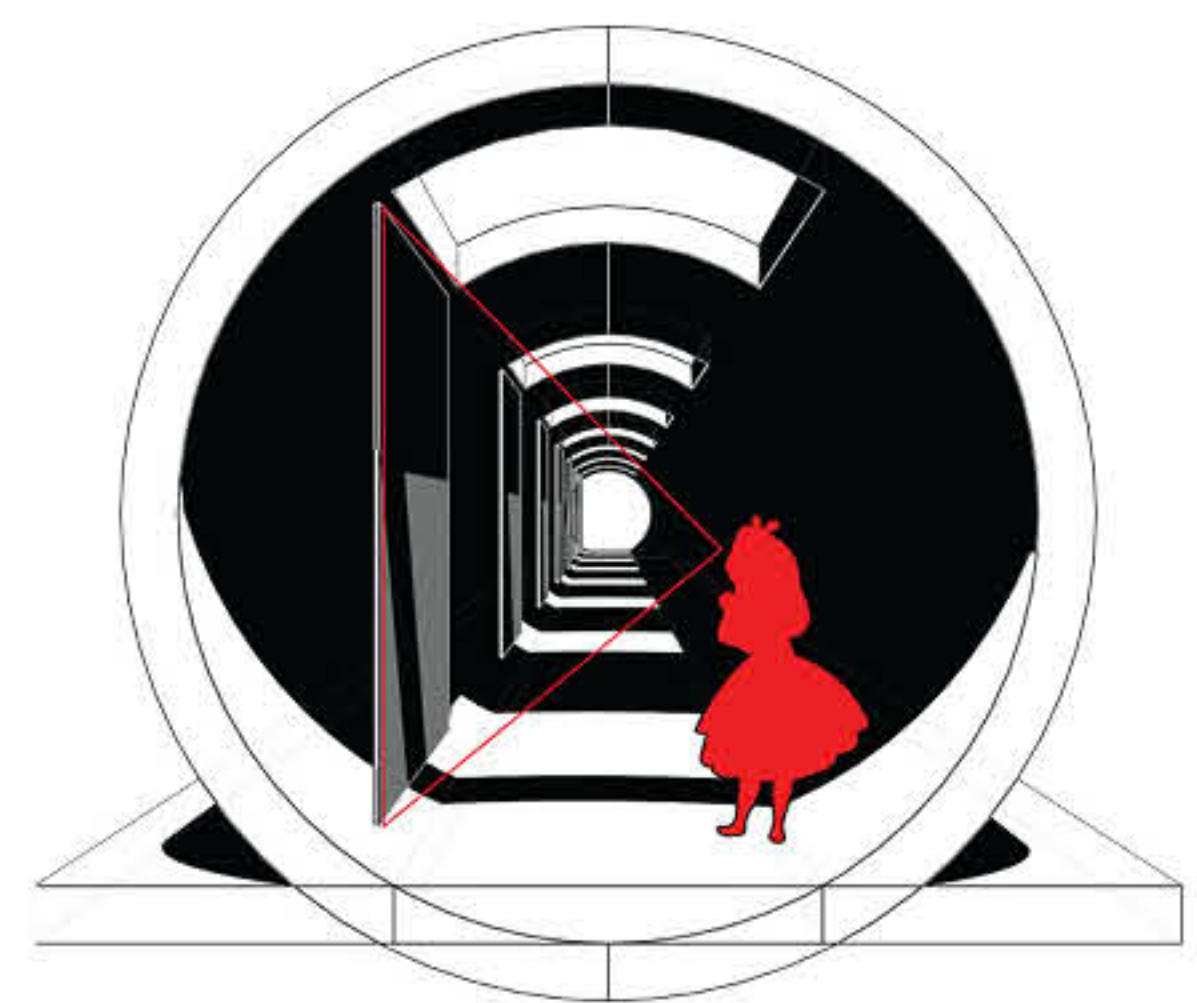


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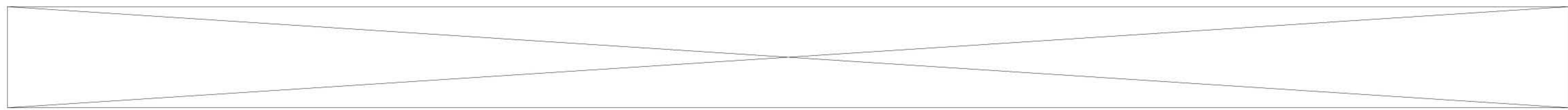
PHOTO FACTORY

VIEWING DIAGRAMS

RHINO + AI



IMMERSIVE  
VIEWING  
PERSPECTIVES







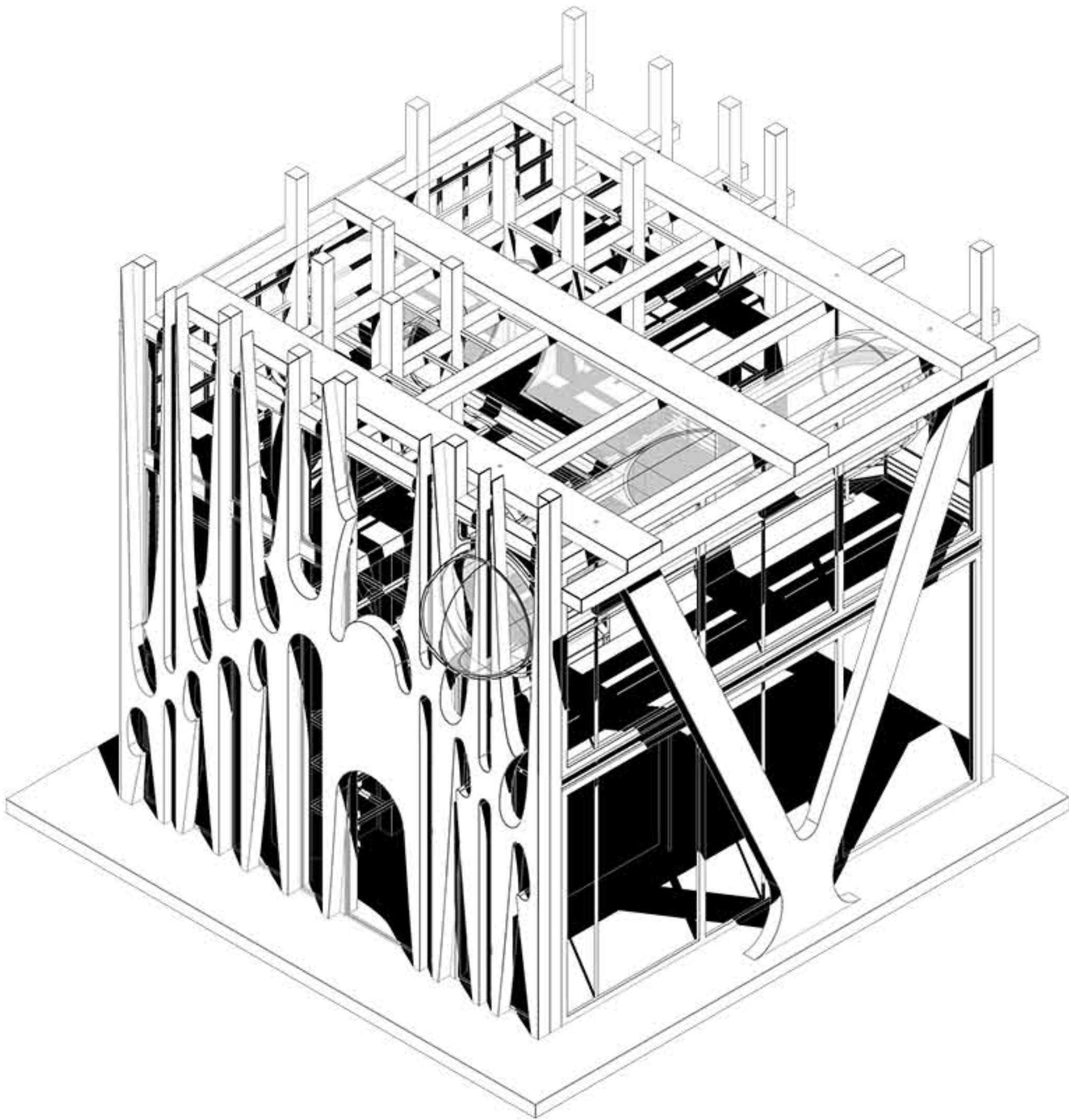
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PHOTO FACTORY

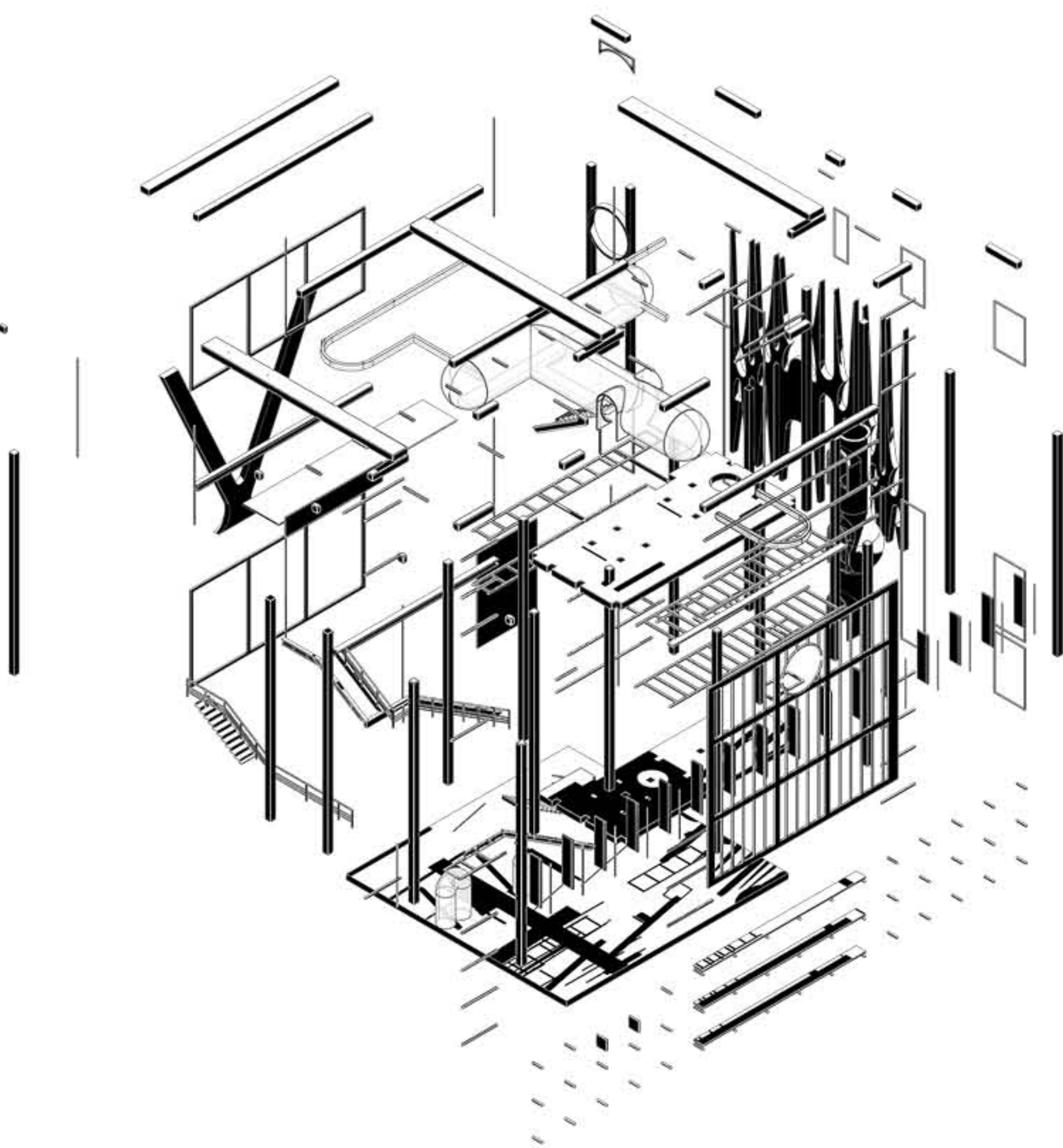
CHUNK EXPERIMENTS

RHINO + PS + AI

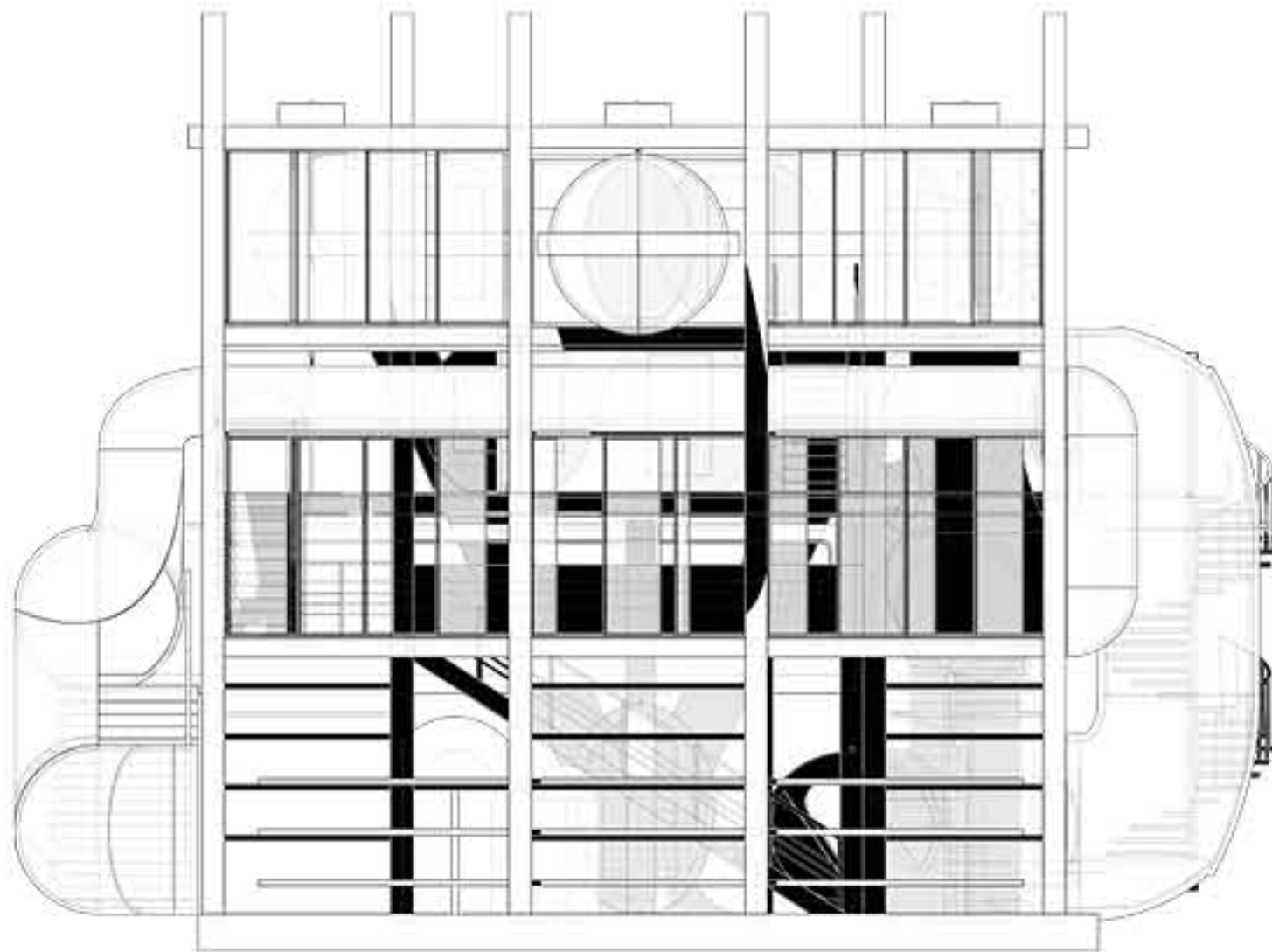
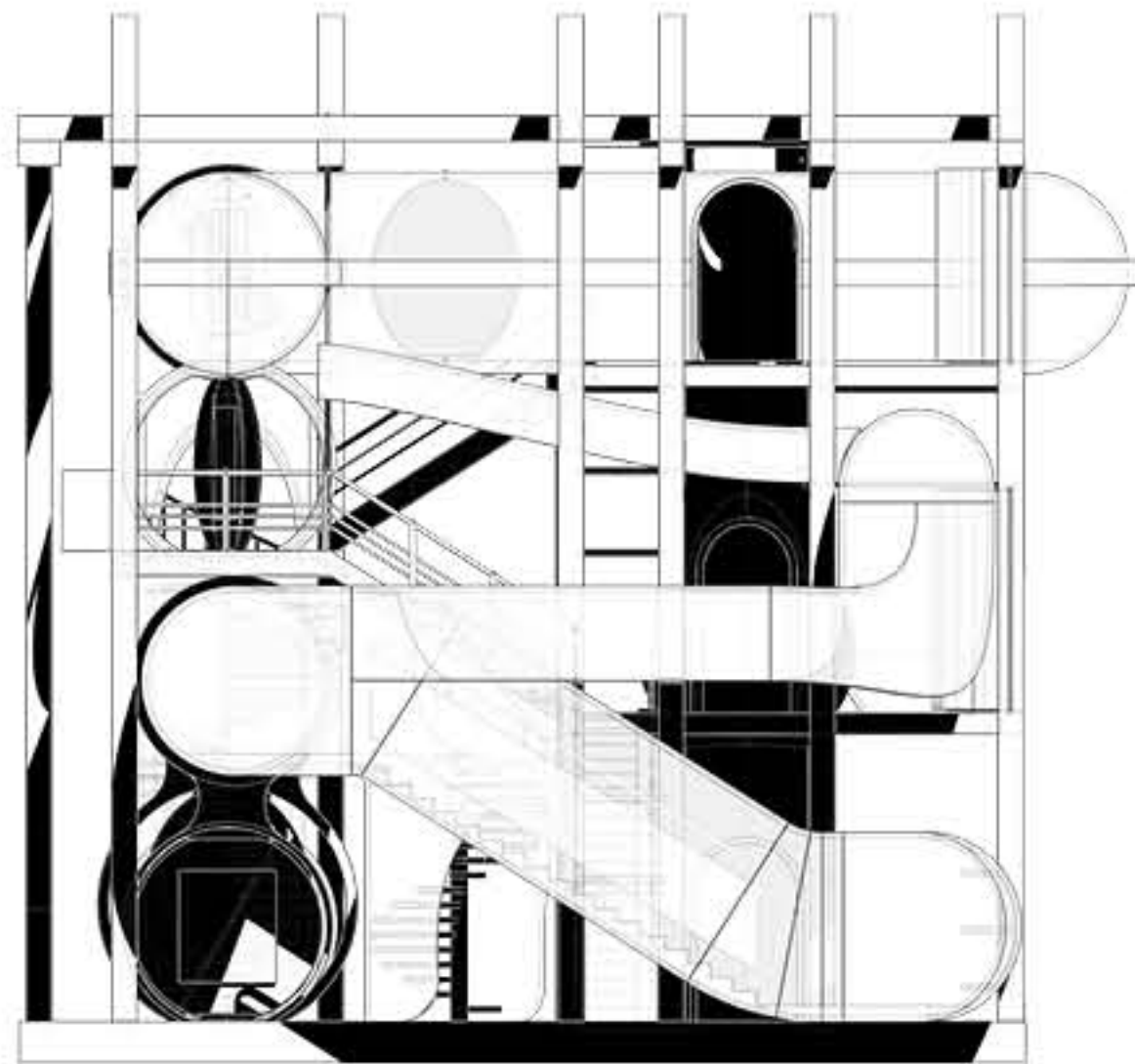
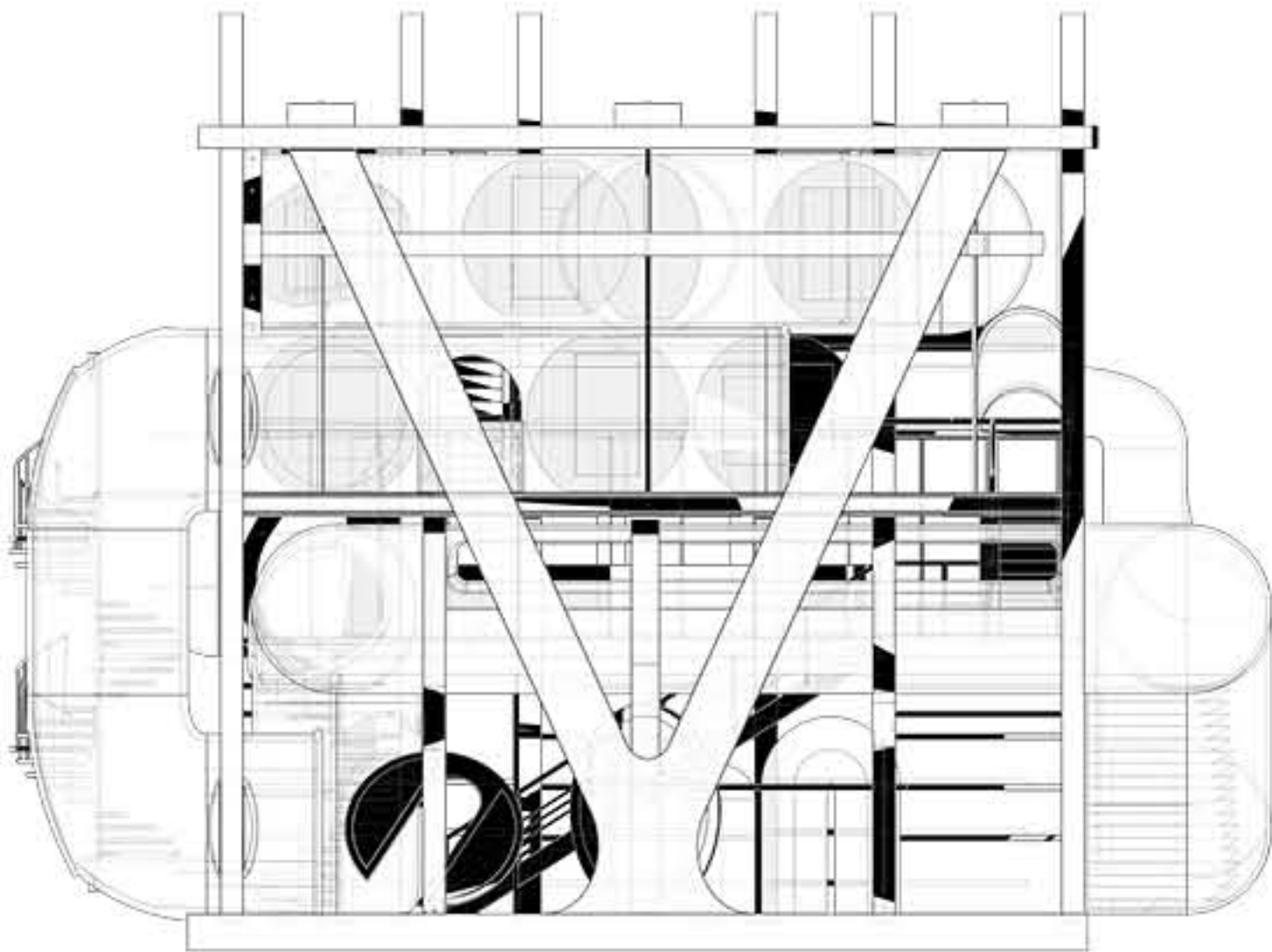
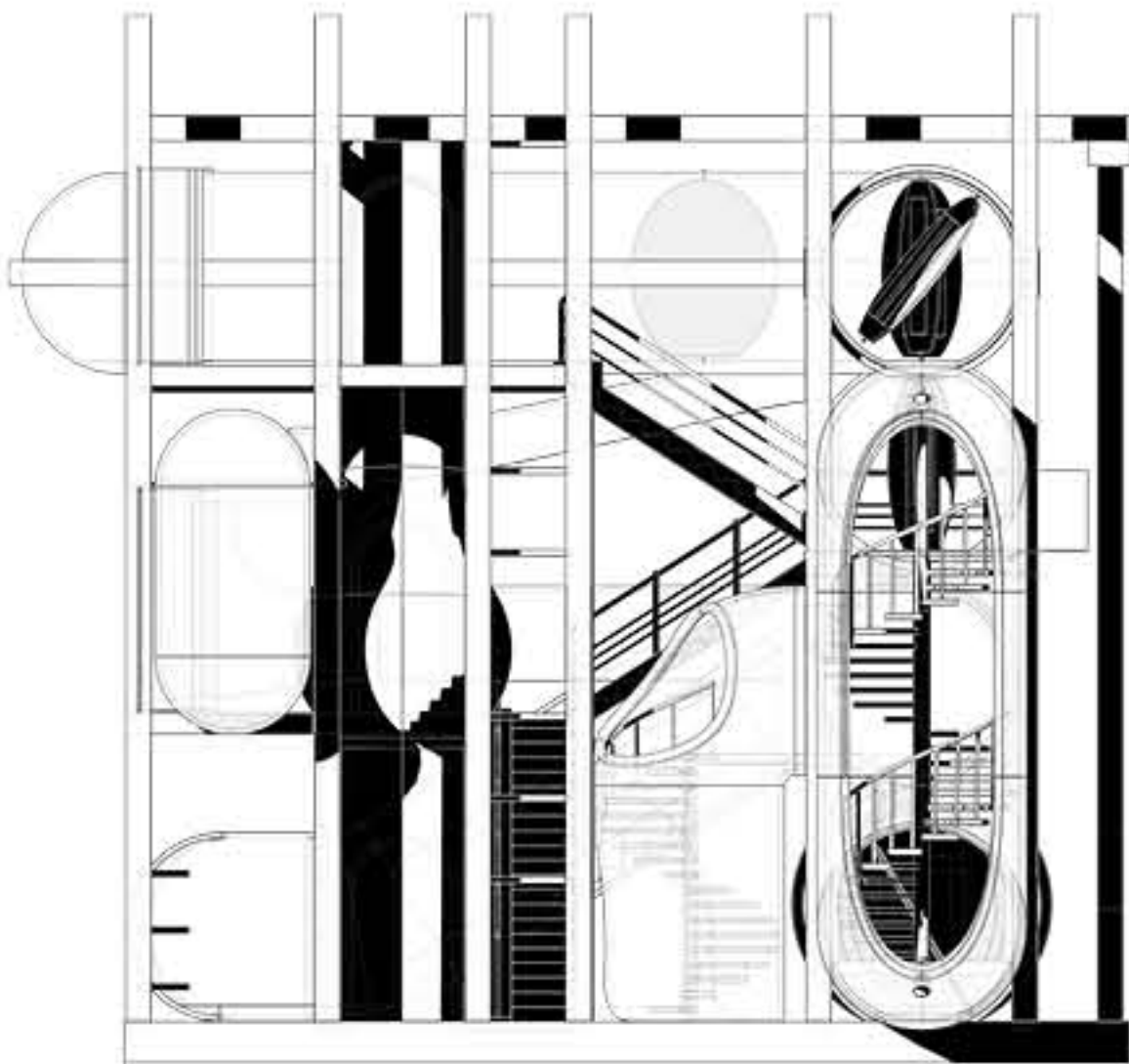
ITERATION\_01 ISO



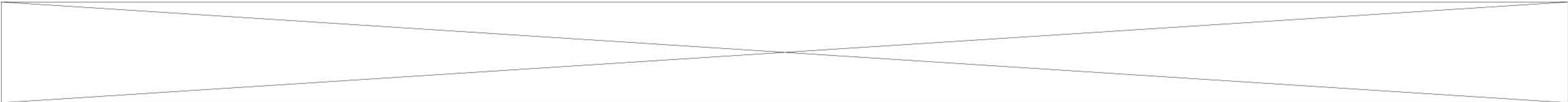
ITERATION\_01  
EXPLODED ISO



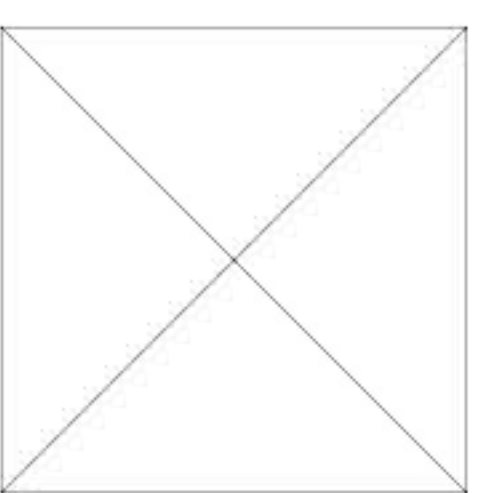
ITERATION\_02 ELEVATIONS



VIEWING DEVICE  
CHUNK MODEL  
30'X 30'X 30'





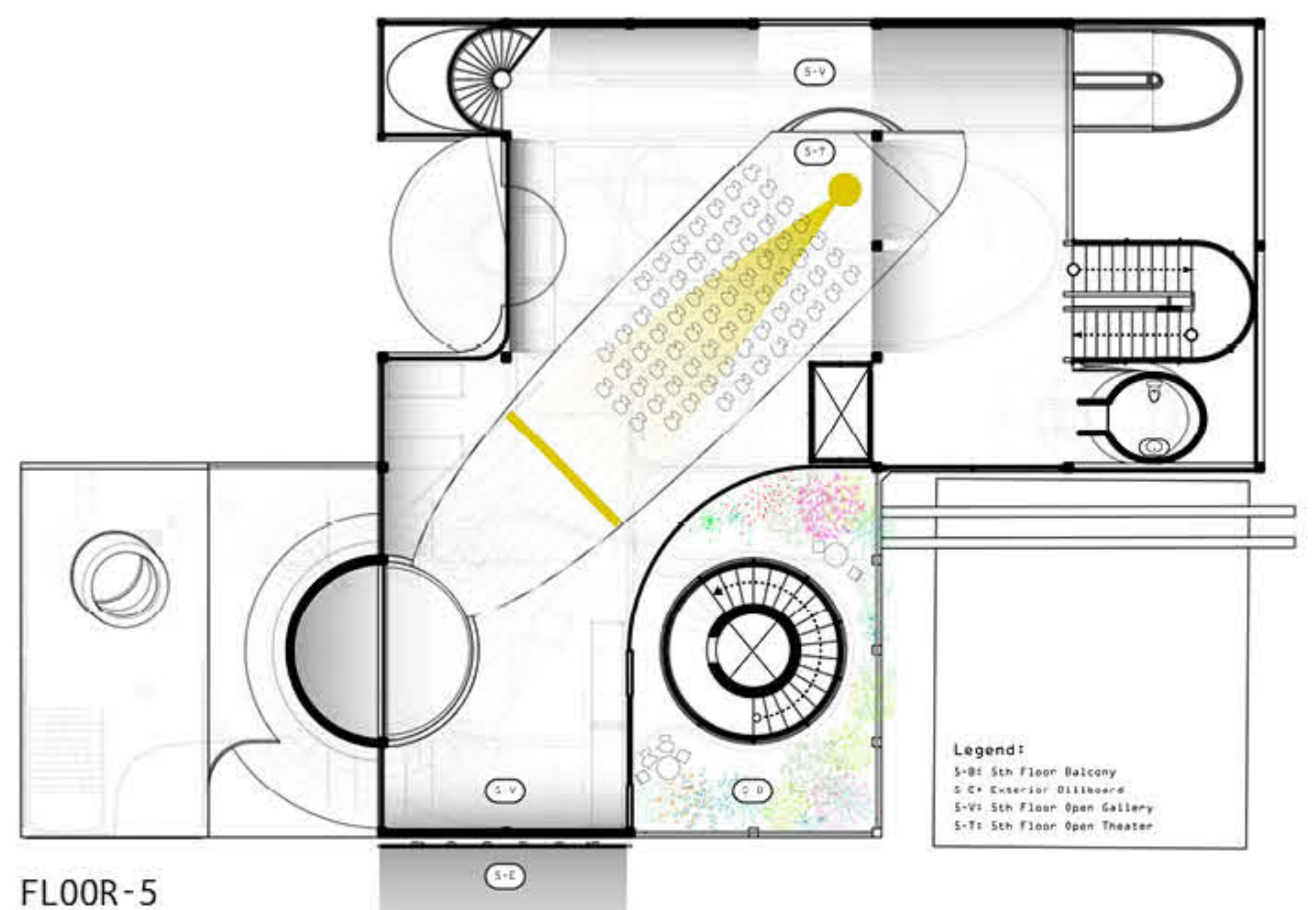


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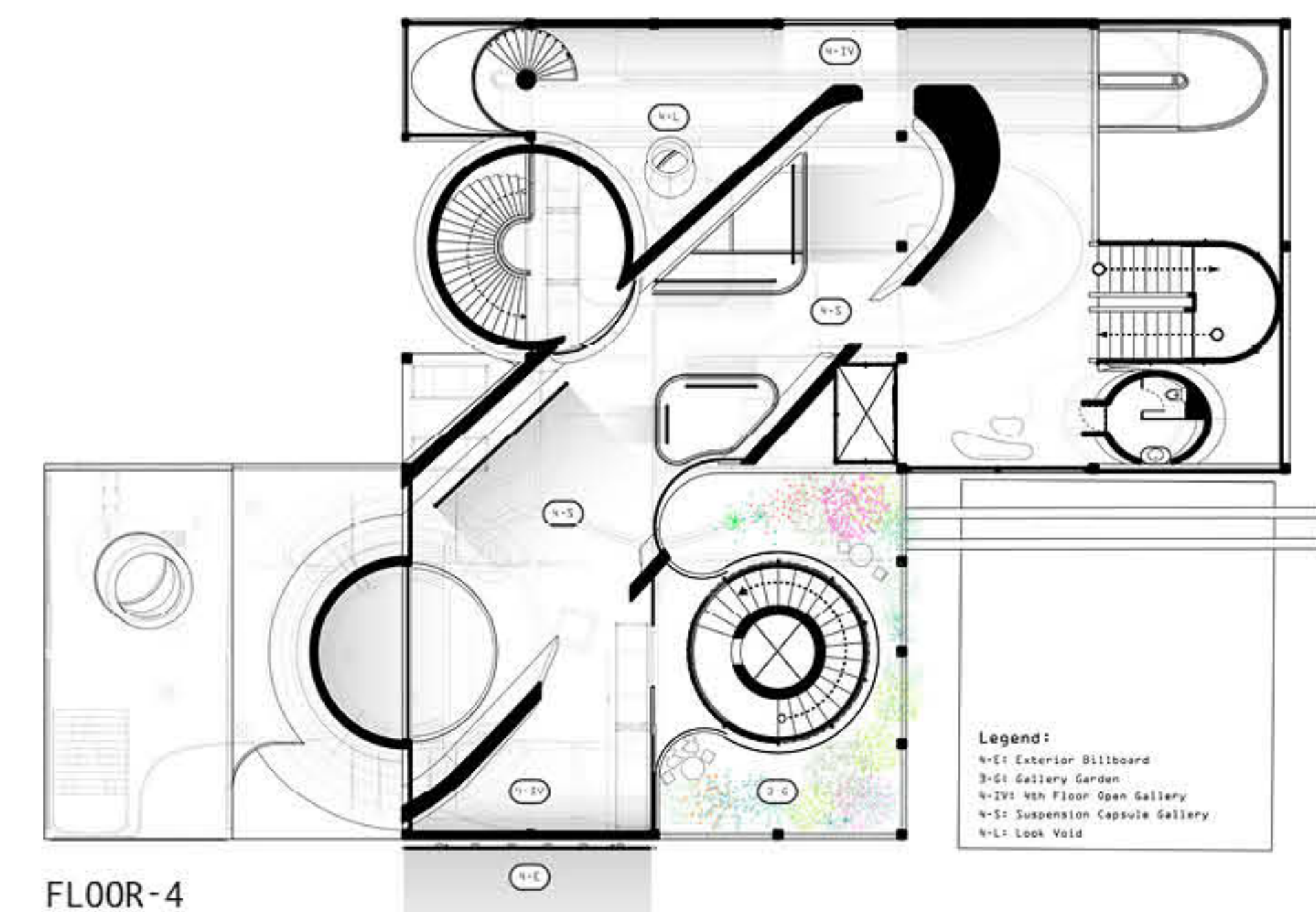
PHOTO FACTORY

DRAWINGS

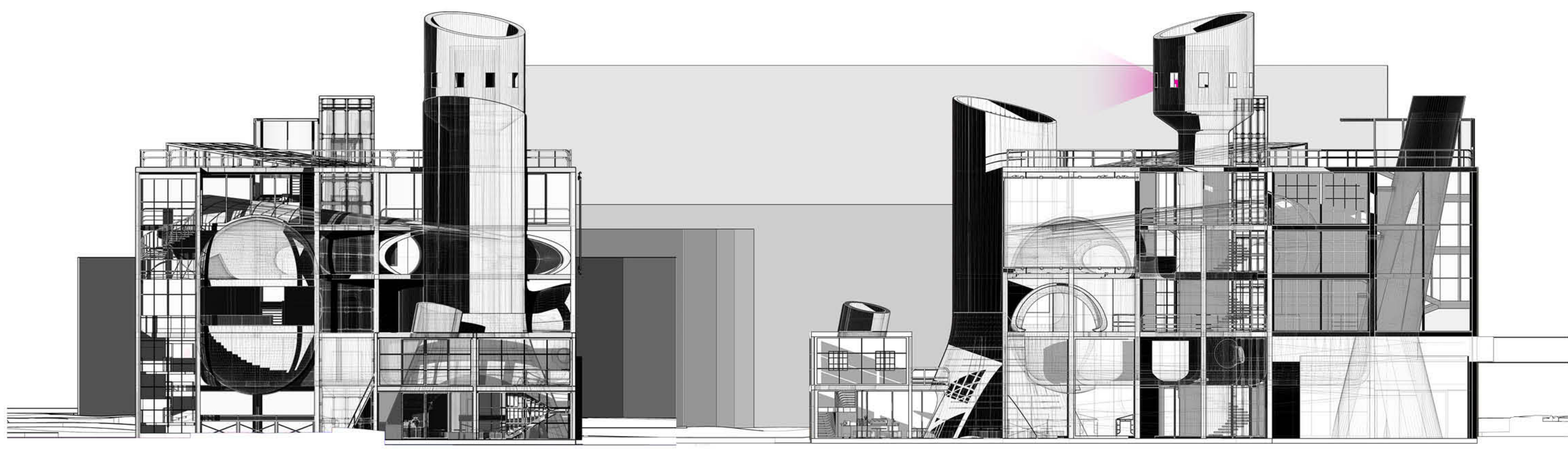
RHINO + AI + PS



FLOOR-5



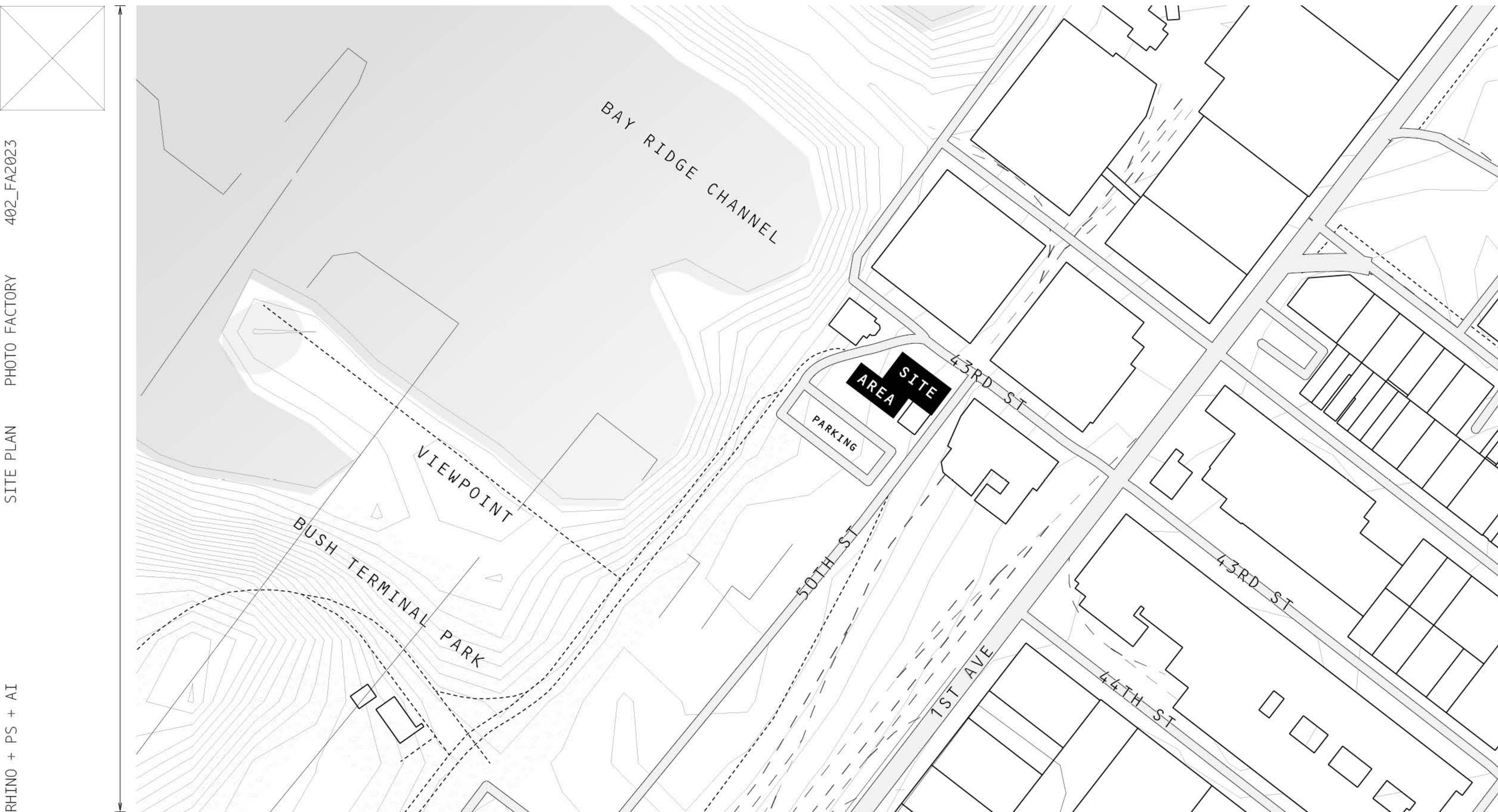
FLOOR-4



PLAN & ELEVATION  
24"X36"  
1/8"= 1'-00"

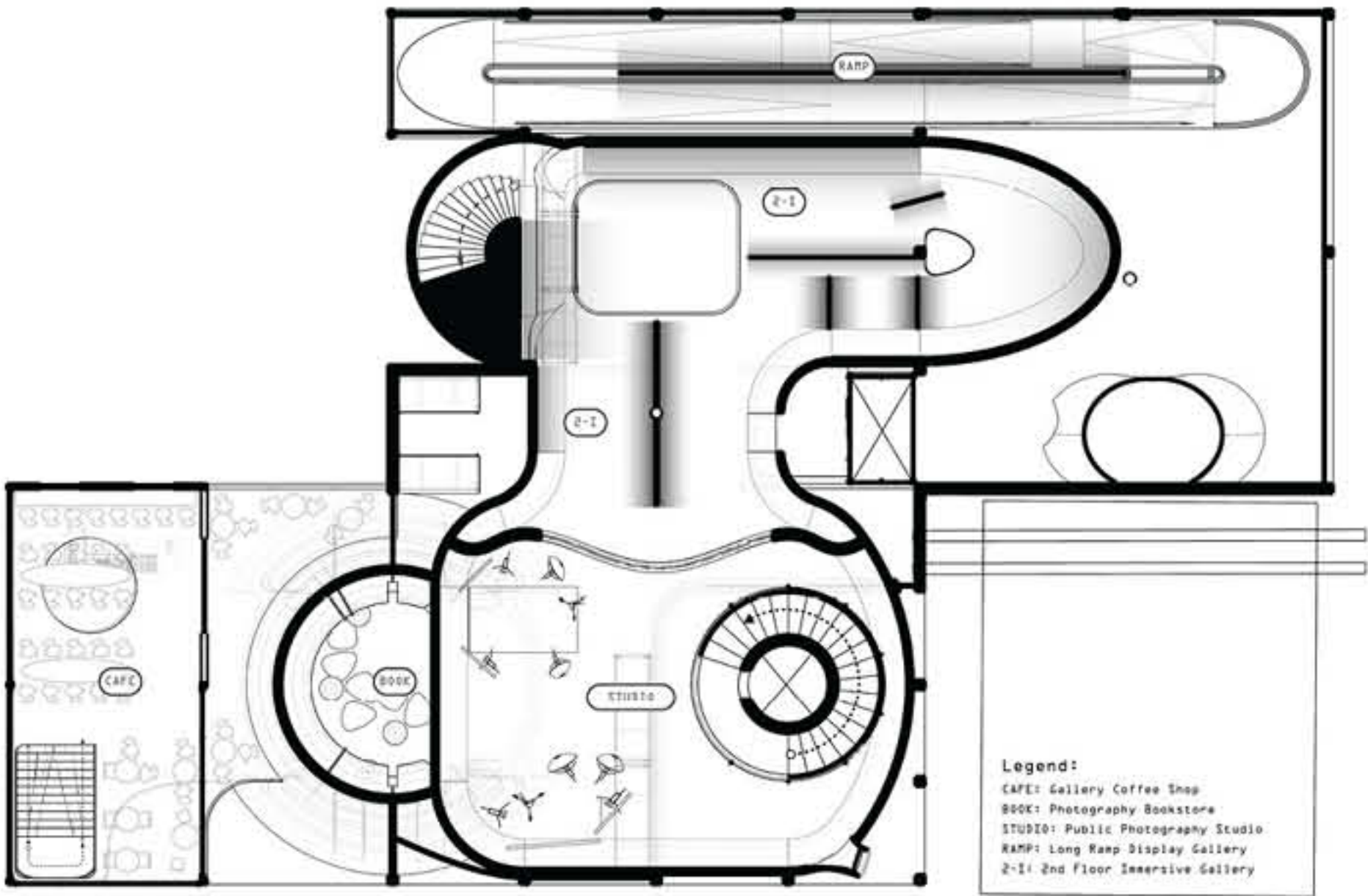
The final design emerged from meticulous extraction and curation, utilizing a self-collected AI library to identify forms. These forms were then merged in Rhino to sculpt the massing of the major exhibition spaces. The museum features three prominent gallery spaces, ranging from immersive to open, a café/bookstore, and accessible photography studios. These are complemented by a publicly accessible rooftop and additional amenities designed to nurture artistic expression within the community.



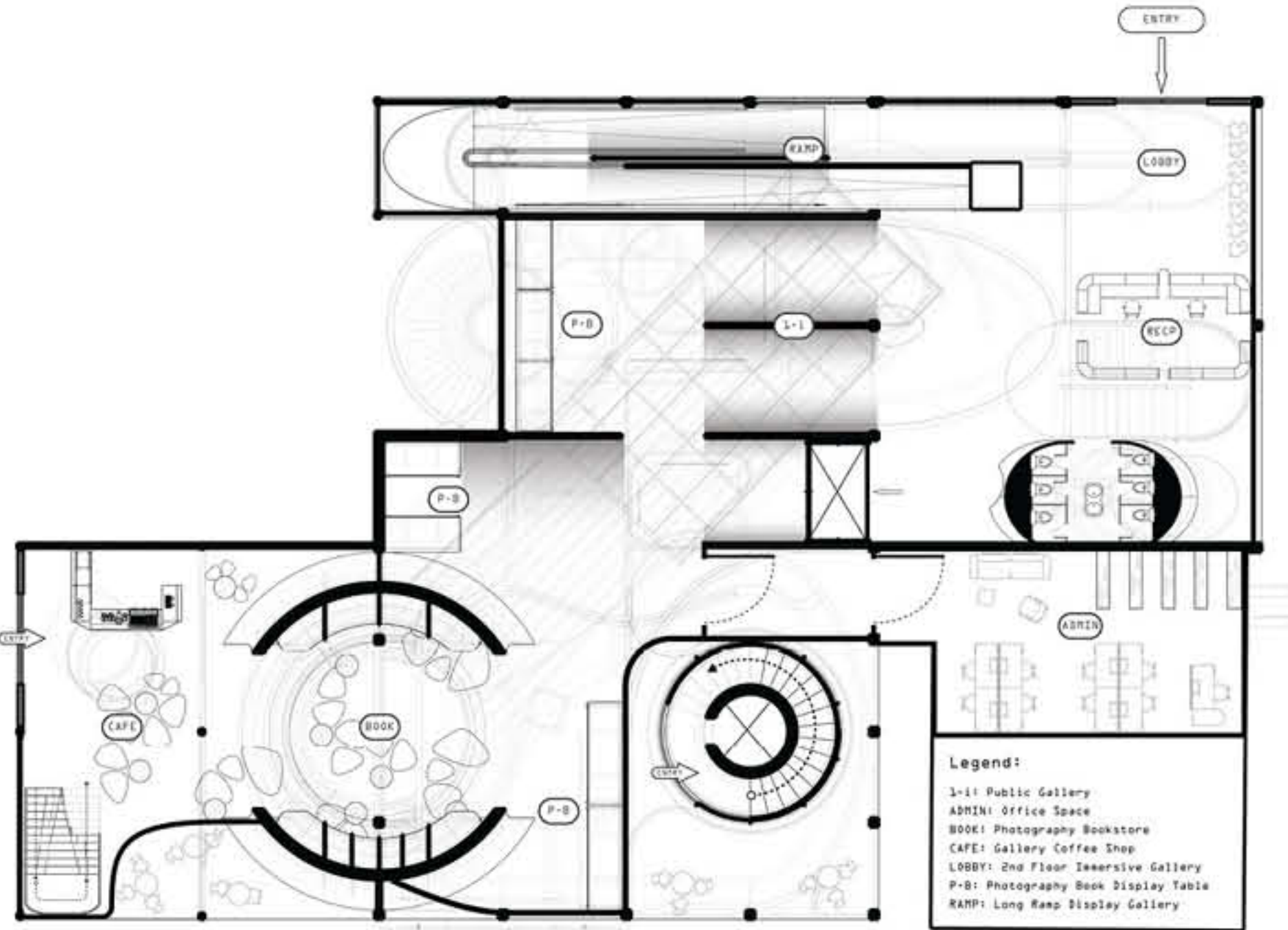


The site, neighboring Red Hook's Bush Terminal Park in Brooklyn, was once a segment of the renowned Bush Terminal industrial complex. Providing serene waterfront vistas of New York Harbor, the park stands as a cherished haven for artists, creators, and locals alike. It offers not only abundant space for creative activities but also recreational amenities that enhance the urban landscape, making it a unique blend of natural beauty and community engagement.





FLOOR-2



FLOOR-1



Spaces within the tubes, silos, and curved forms are meticulously crafted to provide immersive viewing experiences, strategically employing walls, floors, and voids to modulate the viewer's distance from the photography pieces. Meanwhile, the open grid plan offers more versatile viewing galleries, catering to artworks meant for specific contexts while still fostering engagement with the artistic narrative.



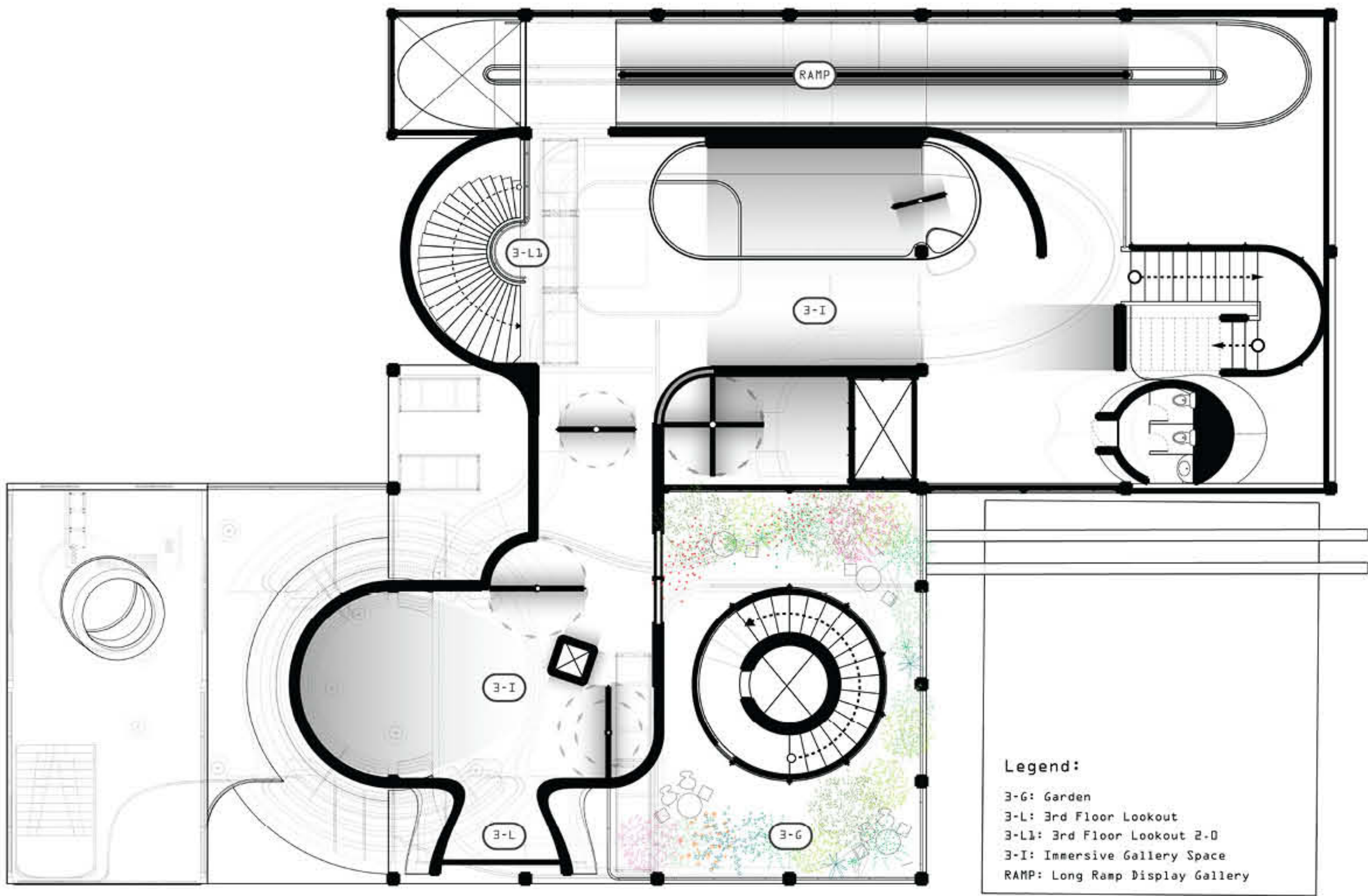
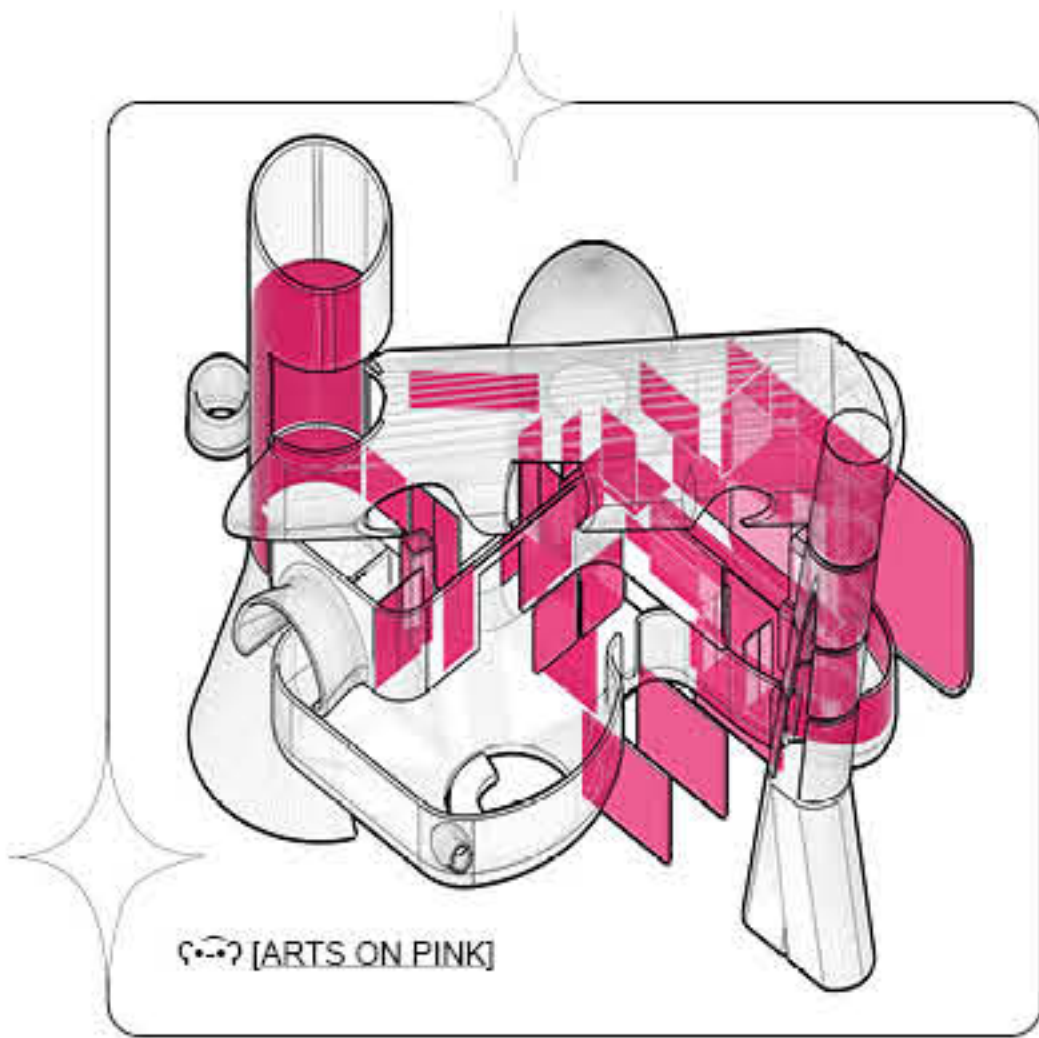
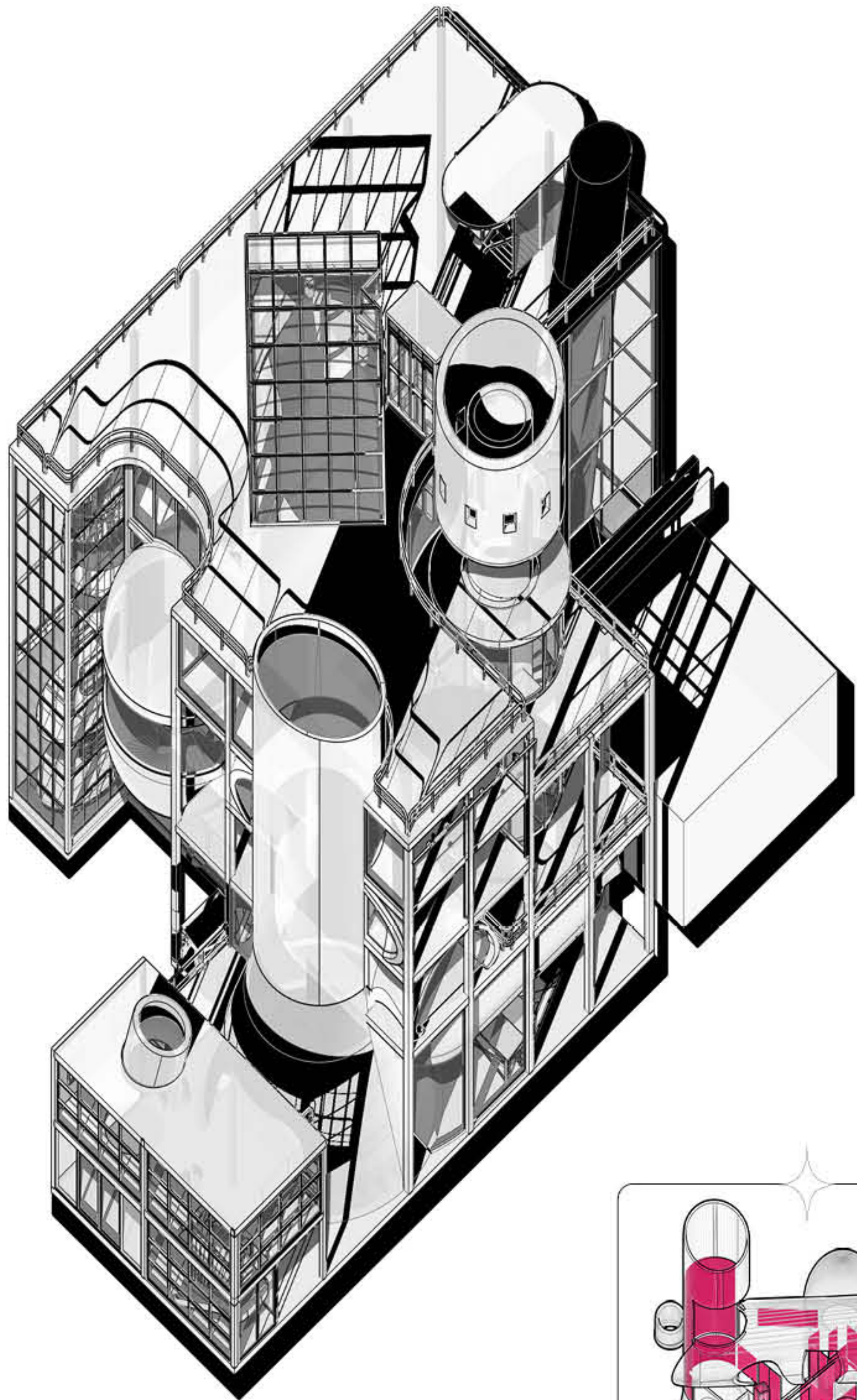


402\_FA2023

PHOTO FACTORY

DRAWINGS

RHINO + AI + PS



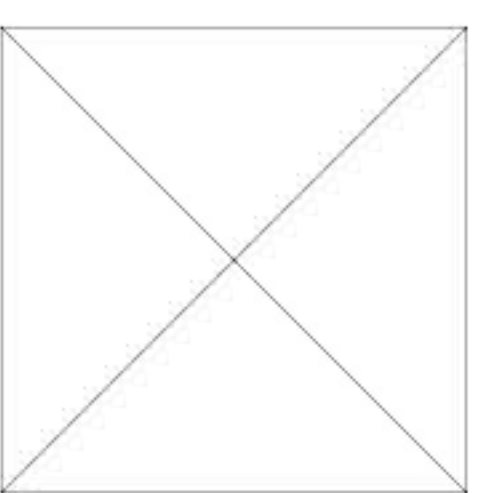
FLOOR-3

The floor plan clearly distinguishes between immersive viewing spaces within volumetric areas and expansive open spaces. It integrates rotating display walls within these viewing areas, enabling close engagement with the artwork and fostering diverse viewing perspectives. This dynamic approach cultivates a captivating and innovative exhibition experience for both art enthusiasts and creators, offering a refreshing take on traditional gallery layouts.



AXON & PLAN  
24"X36"  
1/8"= 1'-00"



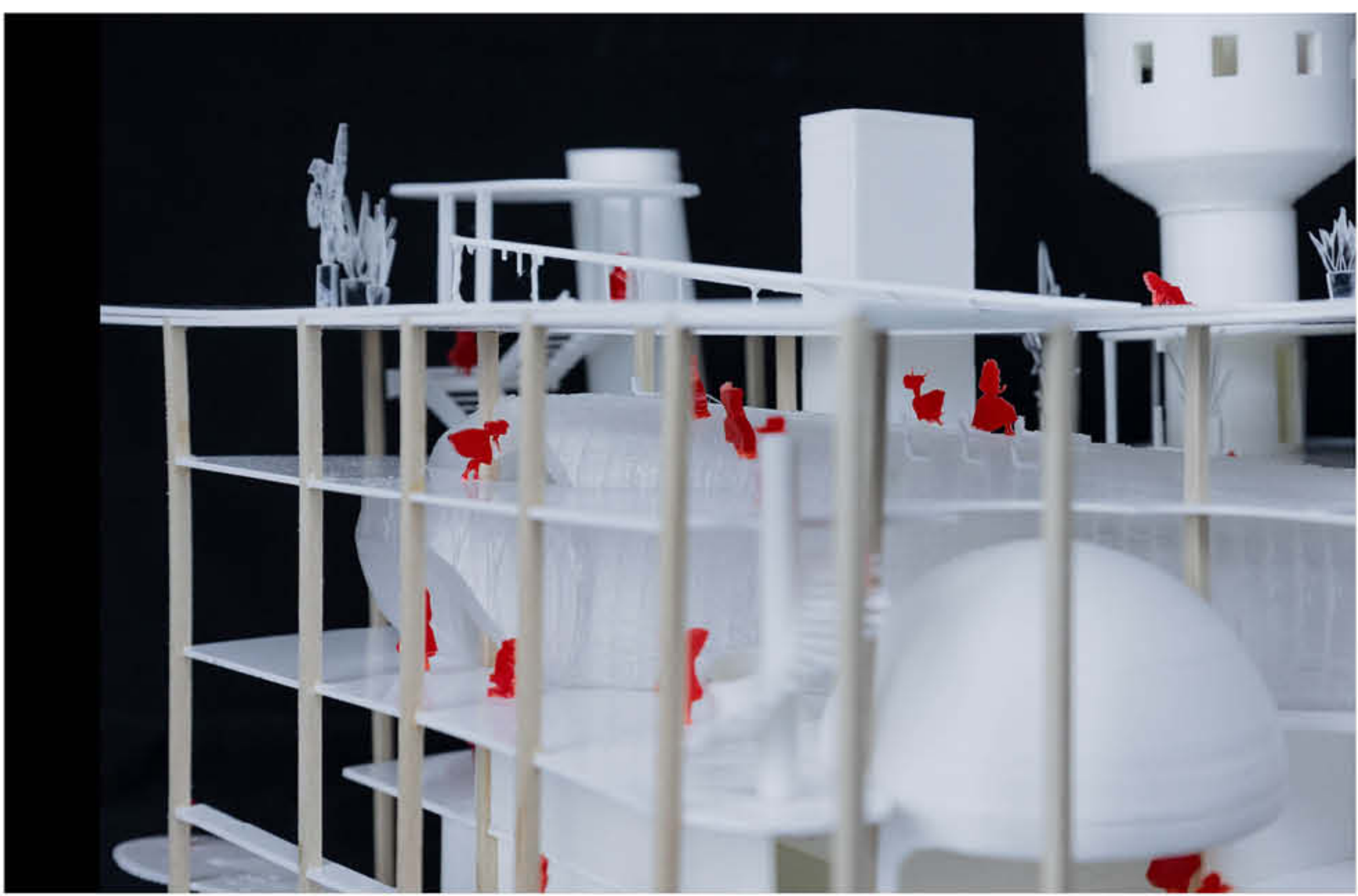


402\_FA2023

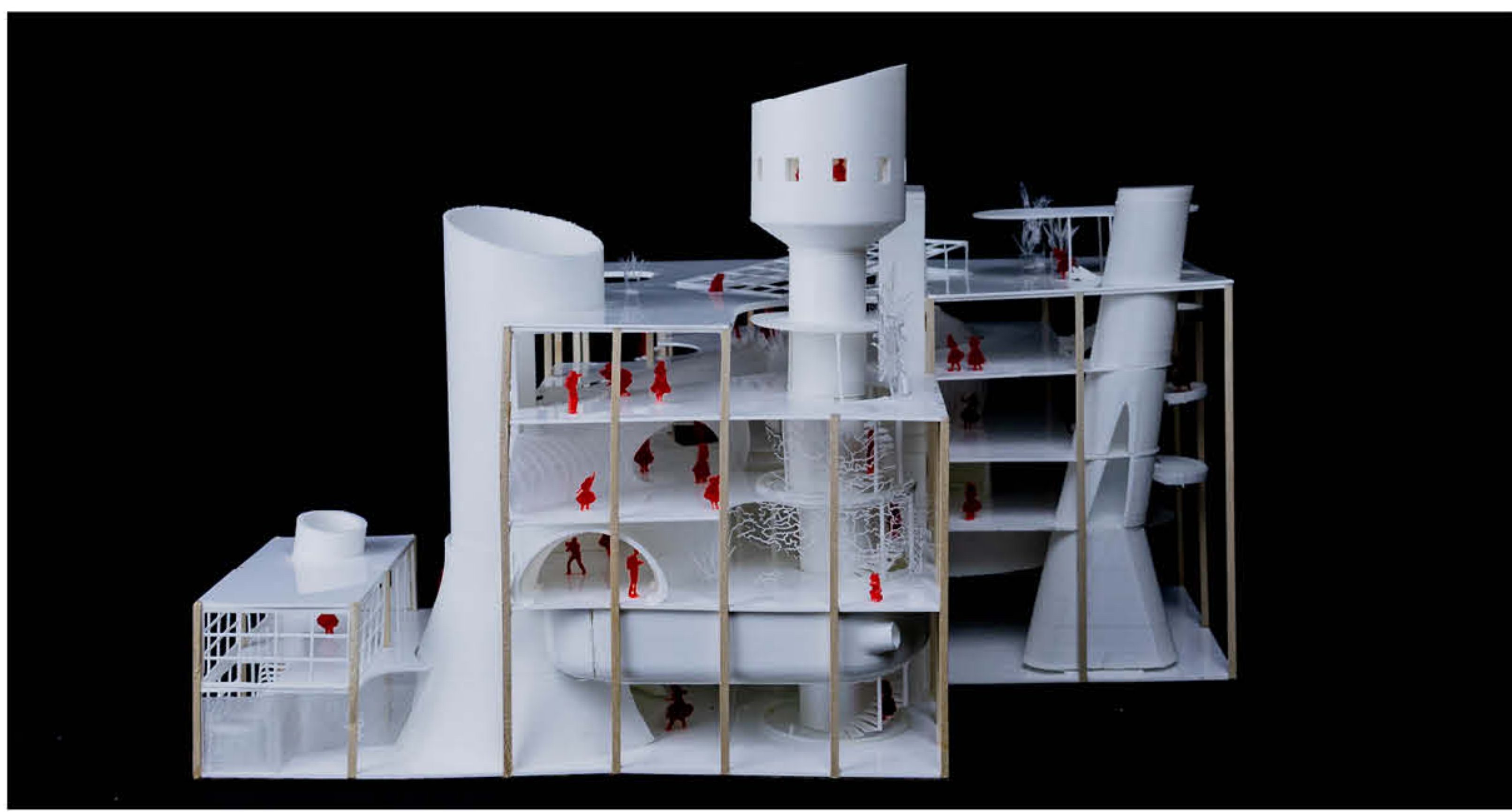
PHOTO FACTORY

MODELS & MODELS

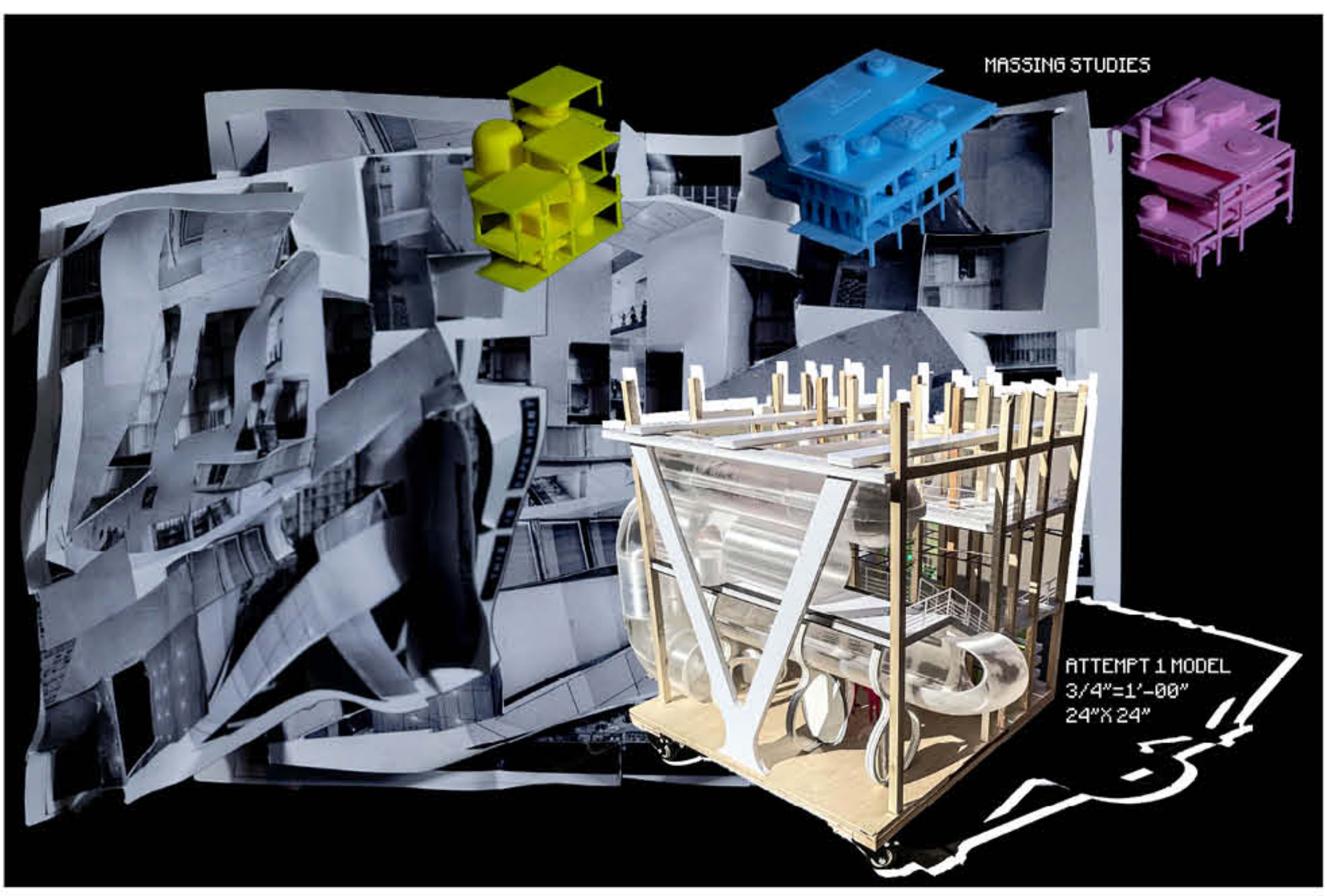
3D-PRINTING + LASER + WOOD



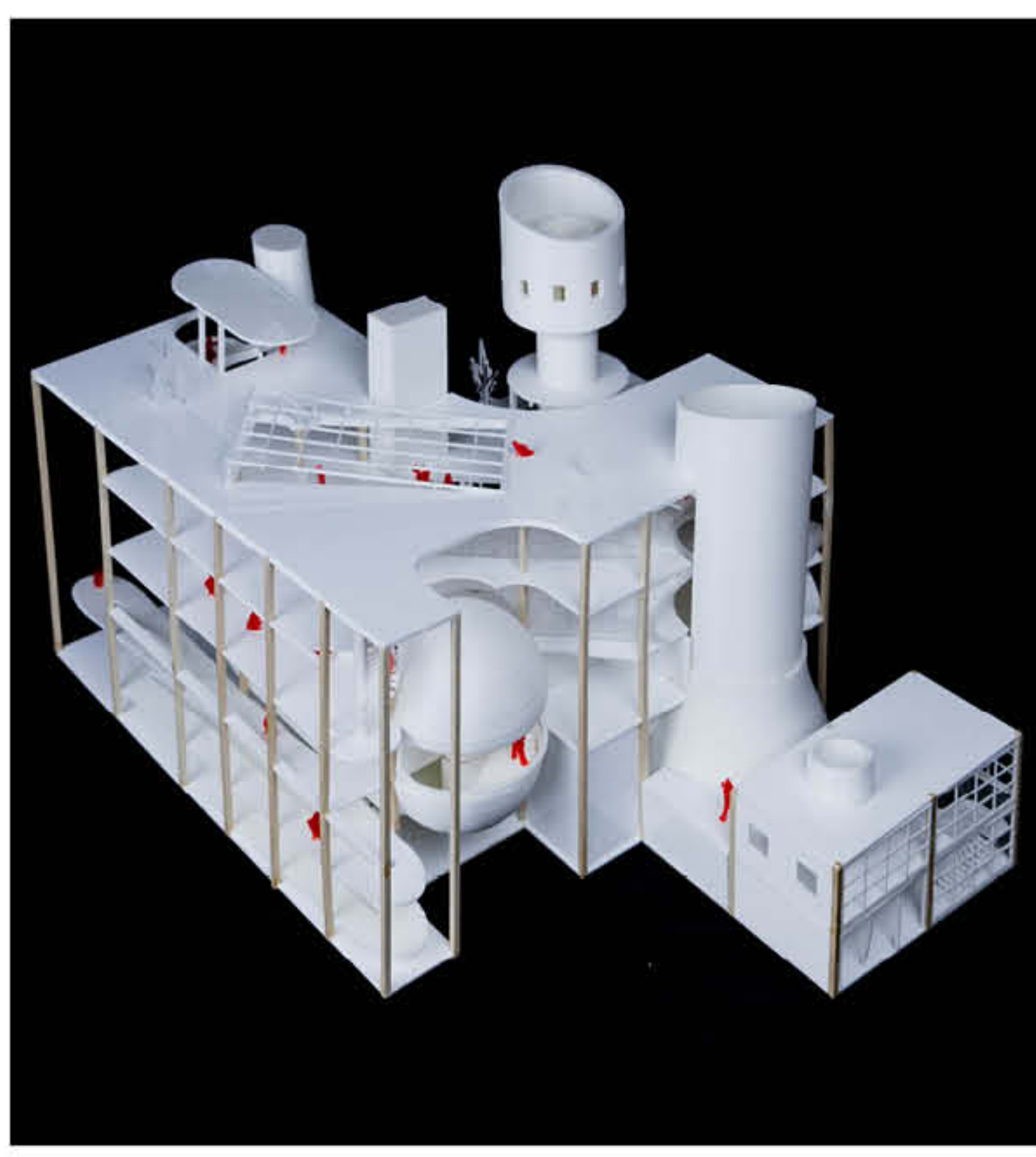
ZOOM-IN DETAILS



PHYSICAL MODEL 1/16"=1'-00" ACRYLIC + BASSWOOD + 3D PRINT



PHOTOGRAPHY COLLAGE EXPERIMENT



3/4 VIEWS OF PHYSICAL MODEL



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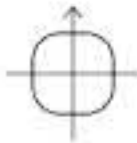


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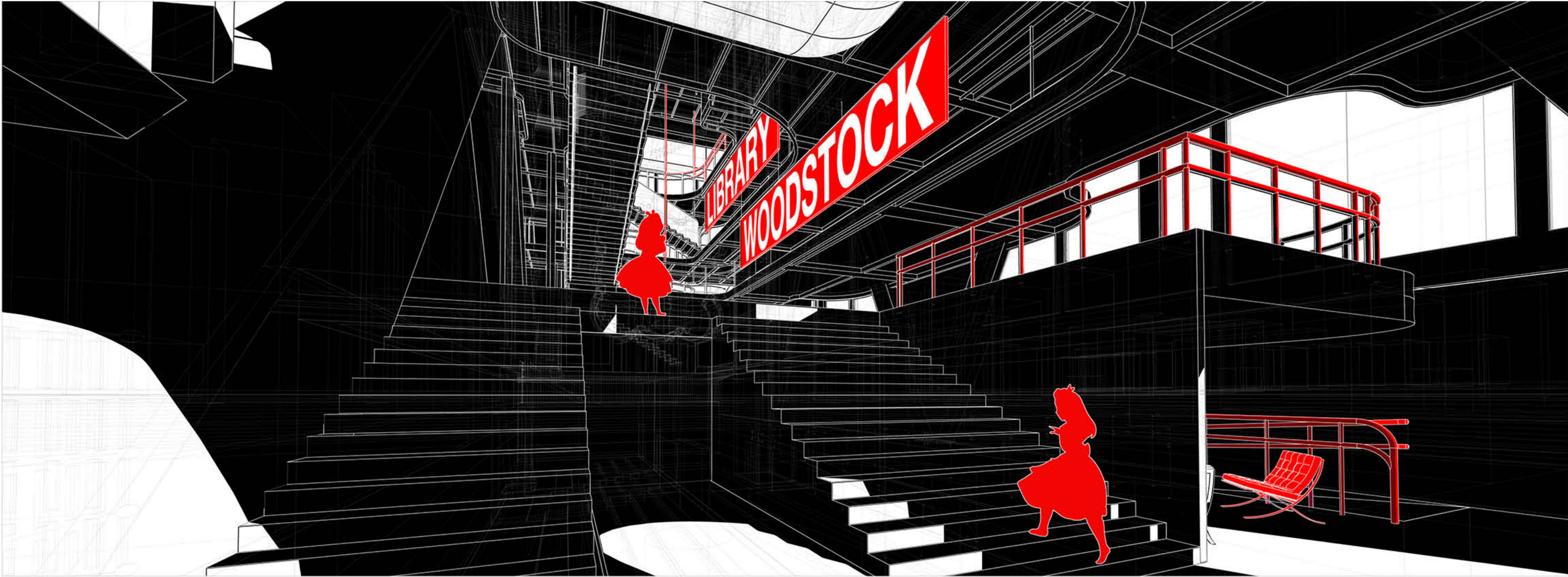
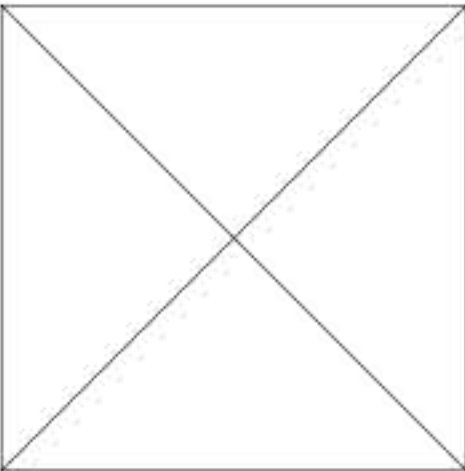
RENDERS

EPIC ENGINE + PS BETA



NIGHT TIME  
EXTERIOR VIEW





### WOODSTOCK CLOUD LIBRARY

Woodstock, The Bronx, New York  
NY Public Library / Community Classroom / Resource Center  
Intermediate Design II - Spring 2022 - Prof. Karen Bausman

The Woodstock Library redesign project, situated in the South Bronx borough of New York City, aims to reimagine this community hub to better serve the diverse needs of the community, with a particular focus on new immigrants and students of all ages. The design concept is centered around creating an inclusive and engaging environment that fosters learning, connection, and empowerment.

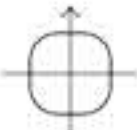
At the heart of the design is a bold architectural vision characterized by innovative structural elements, including slab systems and suspended volumes. Conceptualized within a steel superstructure frame and interconnected by steel cabling, these elements form the foundation for a dynamic spatial experience. Within these spaces, a variety of programmatic elements are integrated, including classrooms, reading areas, theaters, event spaces, artwork display surfaces, and interactive zones, all



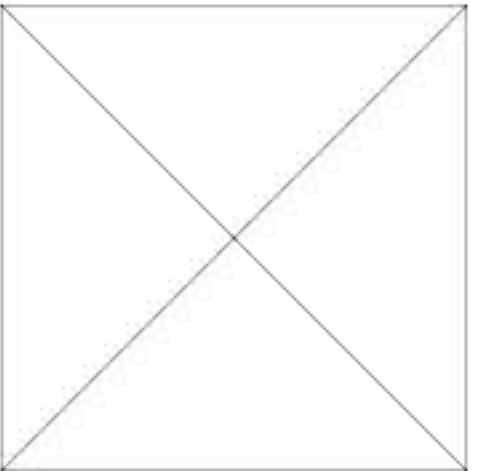
designed to promote collaborative education and exploration. Furthermore, the inclusion of green spaces invites relaxation and inspiration.

As a borough with a rich cultural heritage in arts and music, the Woodstock Library seeks to tap into this dynamic community spirit by providing a welcoming space where residents can unite, exchange, and engage. By embracing the borough's cultural diversity and fostering inclusivity, the library aims to serve as a catalyst for bringing together individuals from all walks of life under one shared vision of knowledge, connection, and opportunity.

Through reflective spatial planning and strategic design interventions, the project aims to facilitate meaningful connections and address the challenges posed by serving a wide range of age groups. The design features "clouds," or suspended volumes, serving as enclosed spaces within the otherwise open library environment. The Woodstock Library is designed to serve as a platform for cultural exchange, dialogue, and collective growth, embodying the transformative potential of architecture in shaping social dynamics and fostering community resilience.





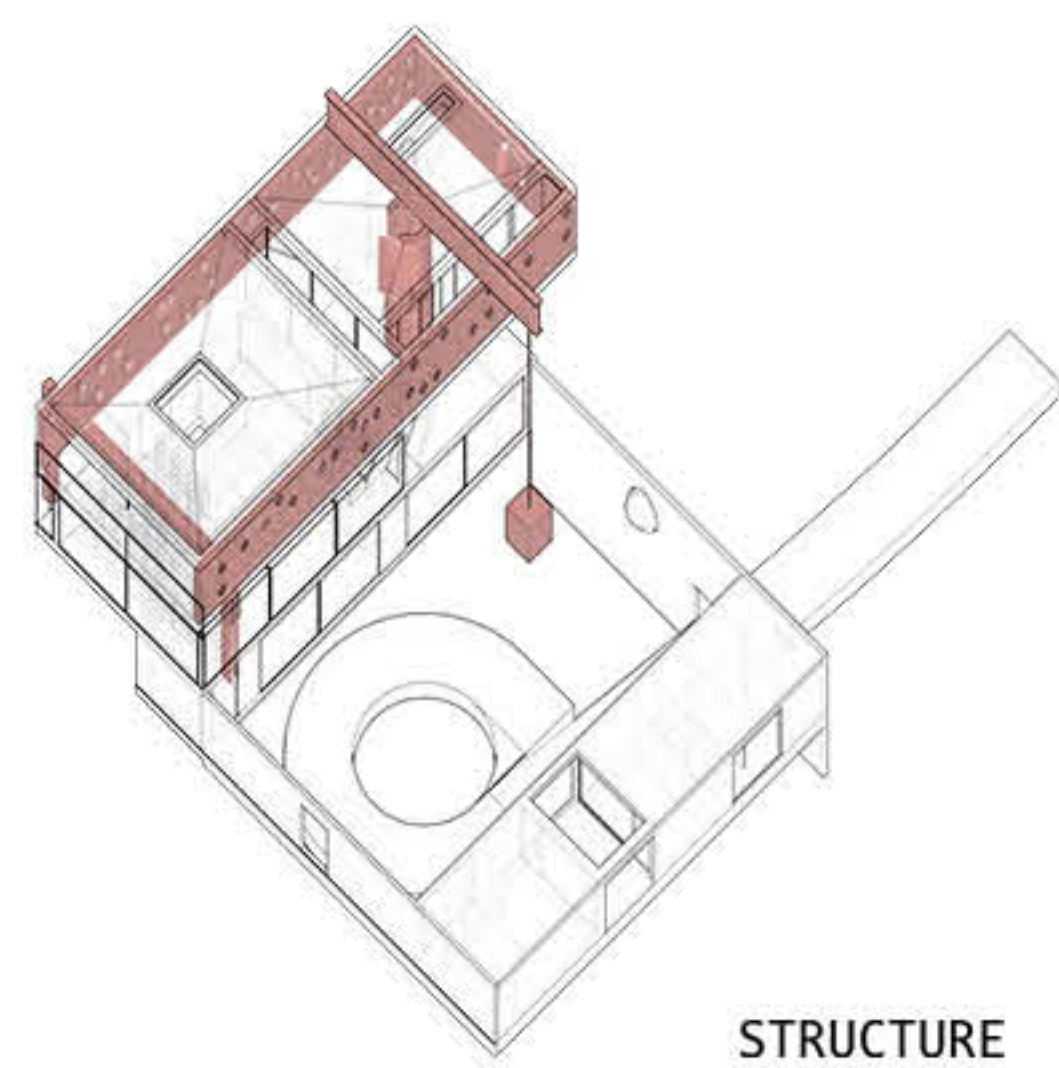


WOODSTOCK LIBRARY 202\_SP2022

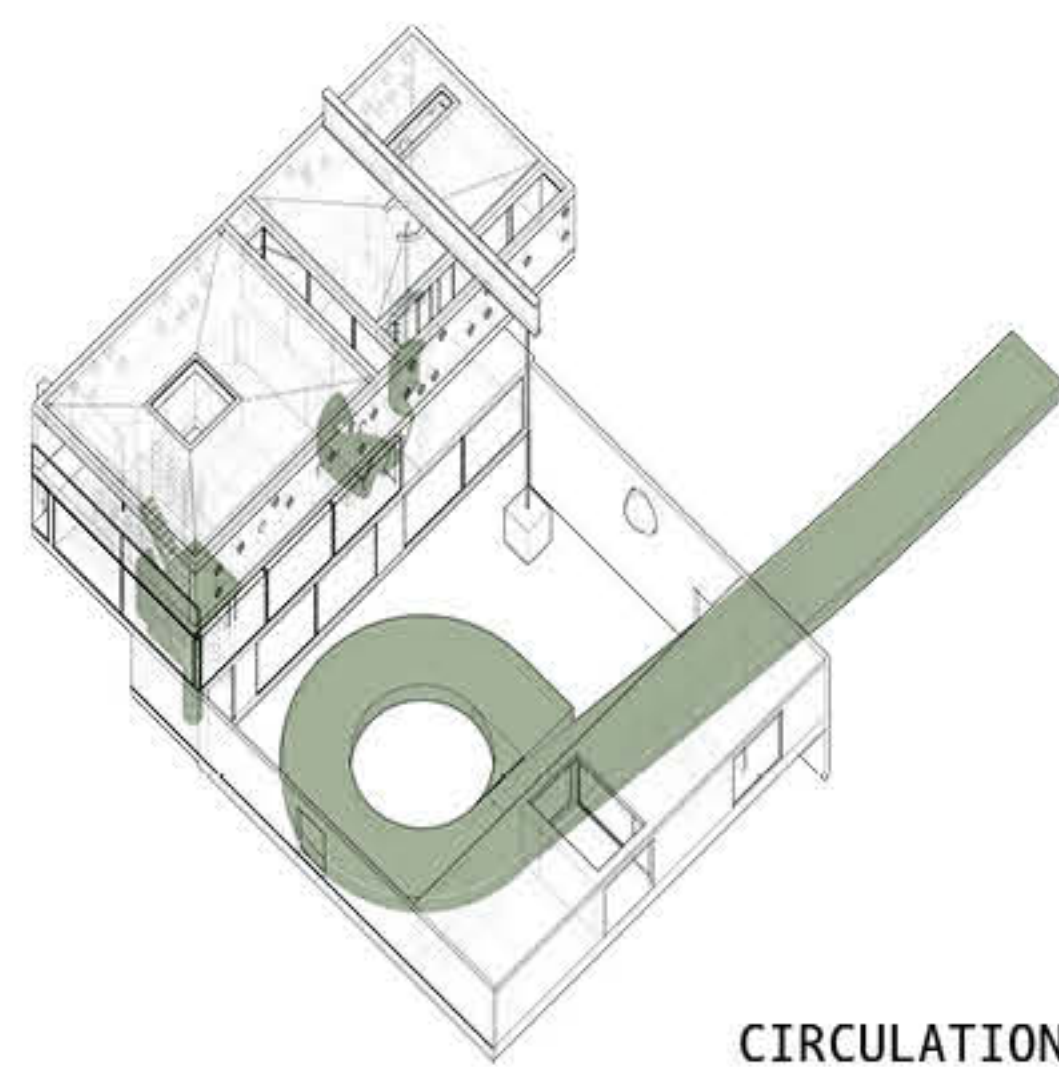
DESIGN APPROACHS

RHINO + PS + AI

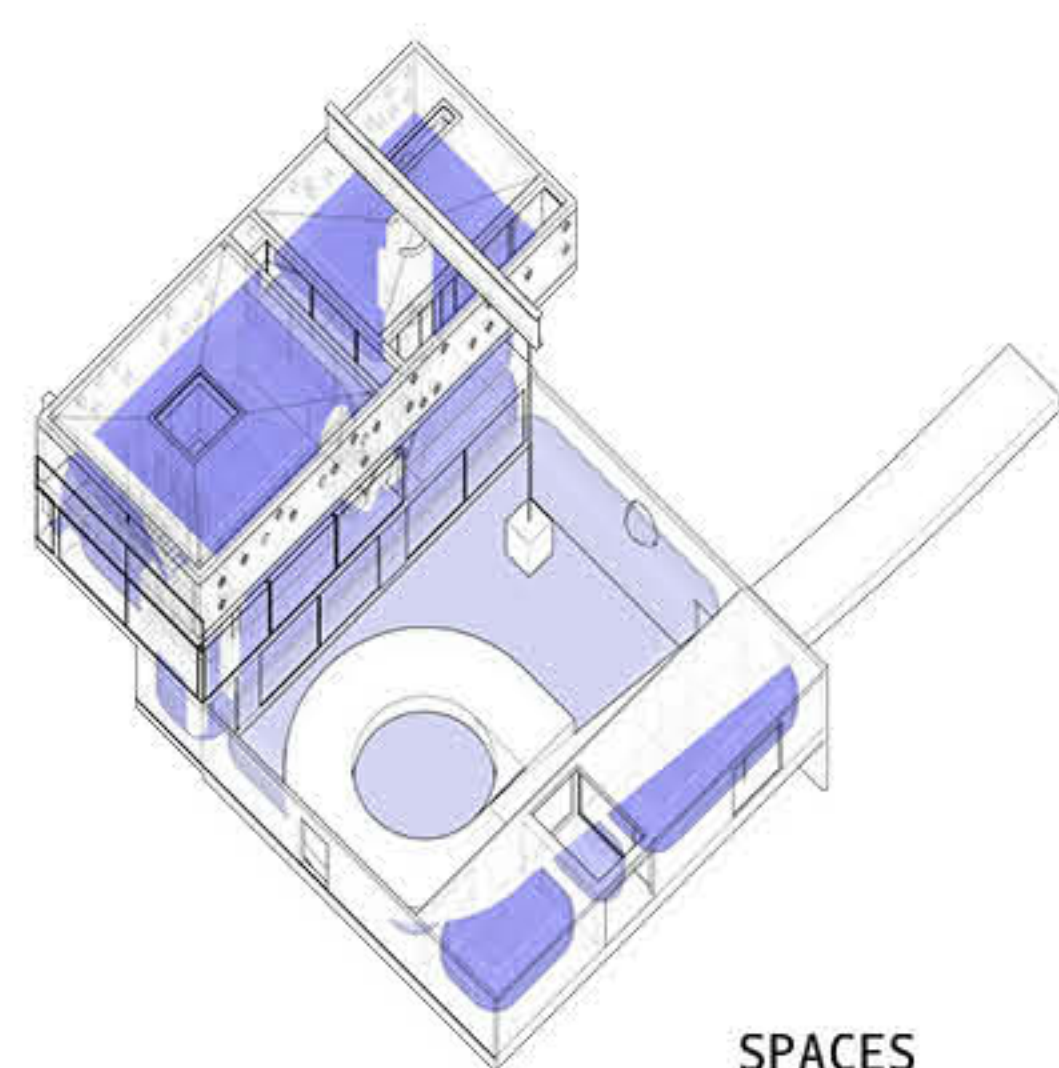
PRECEDENT STUDY



STRUCTURE

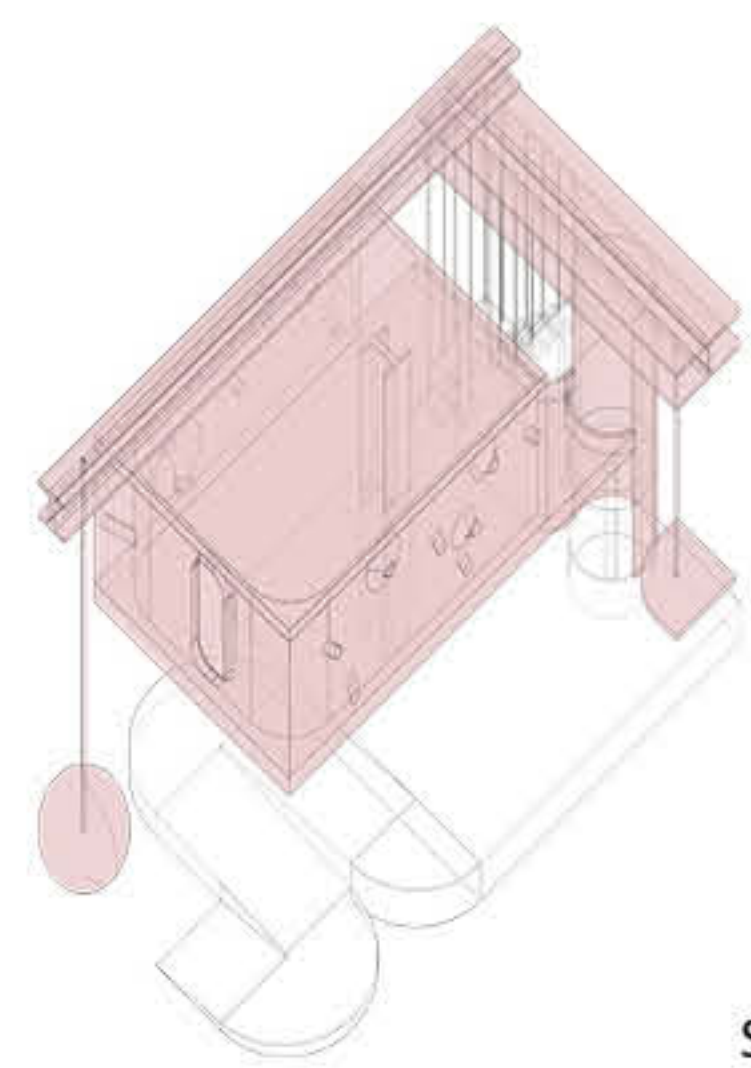


CIRCULATION

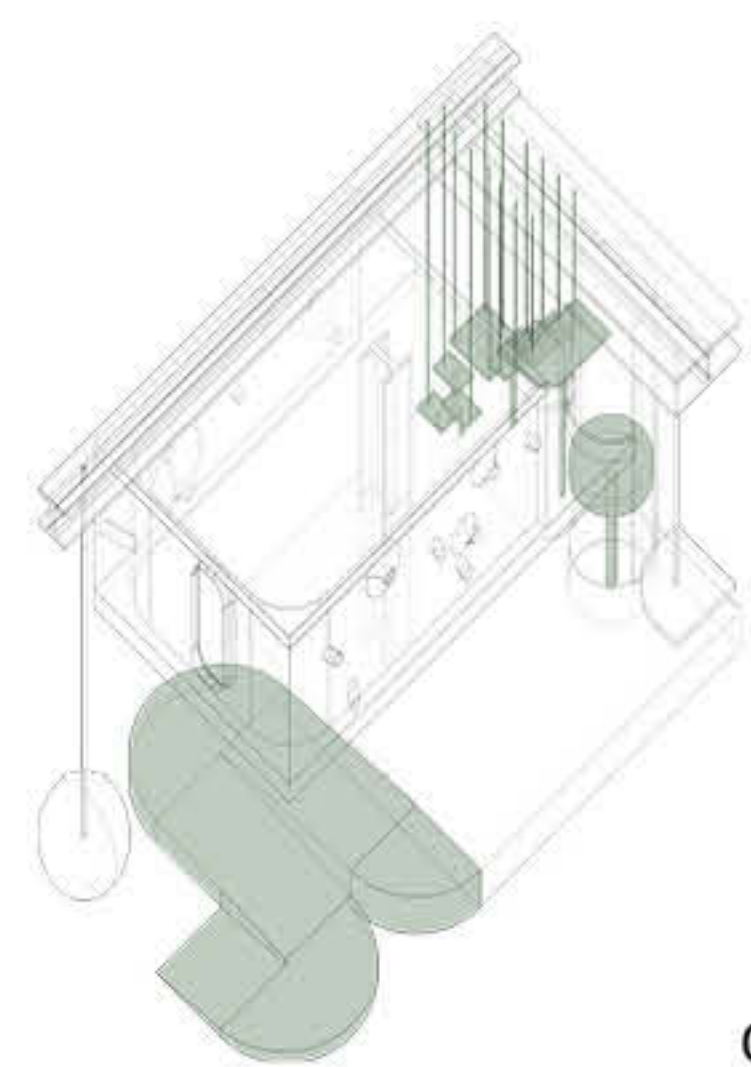


SPACES

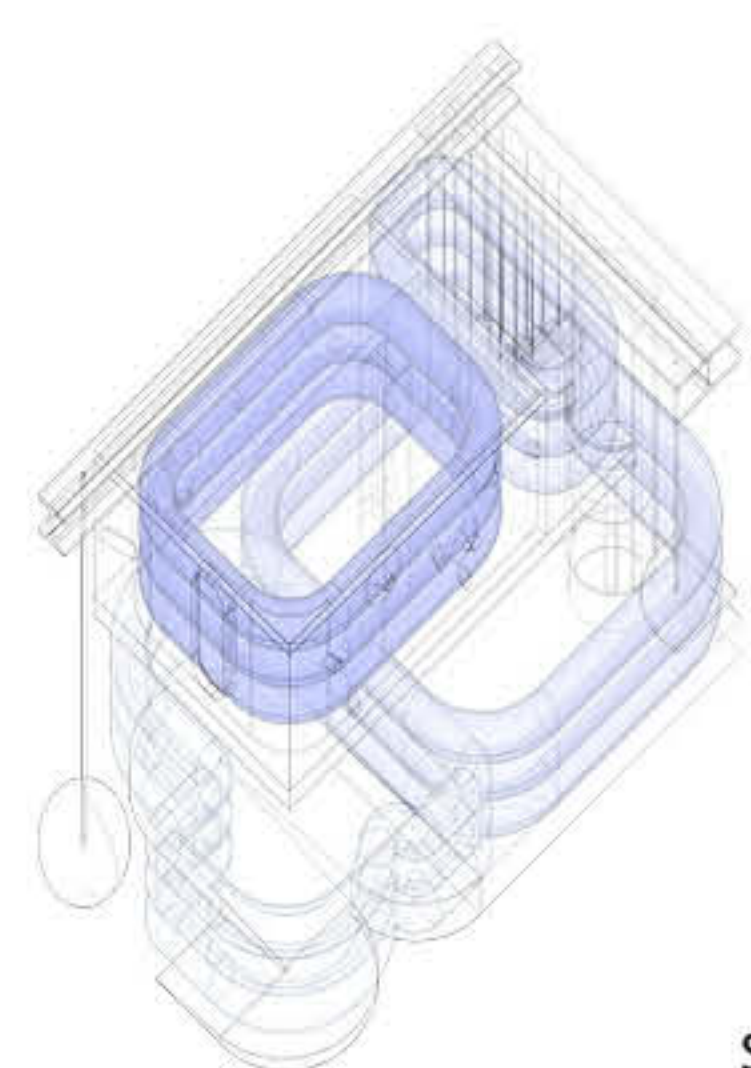
SHRINK



STRUCTURE

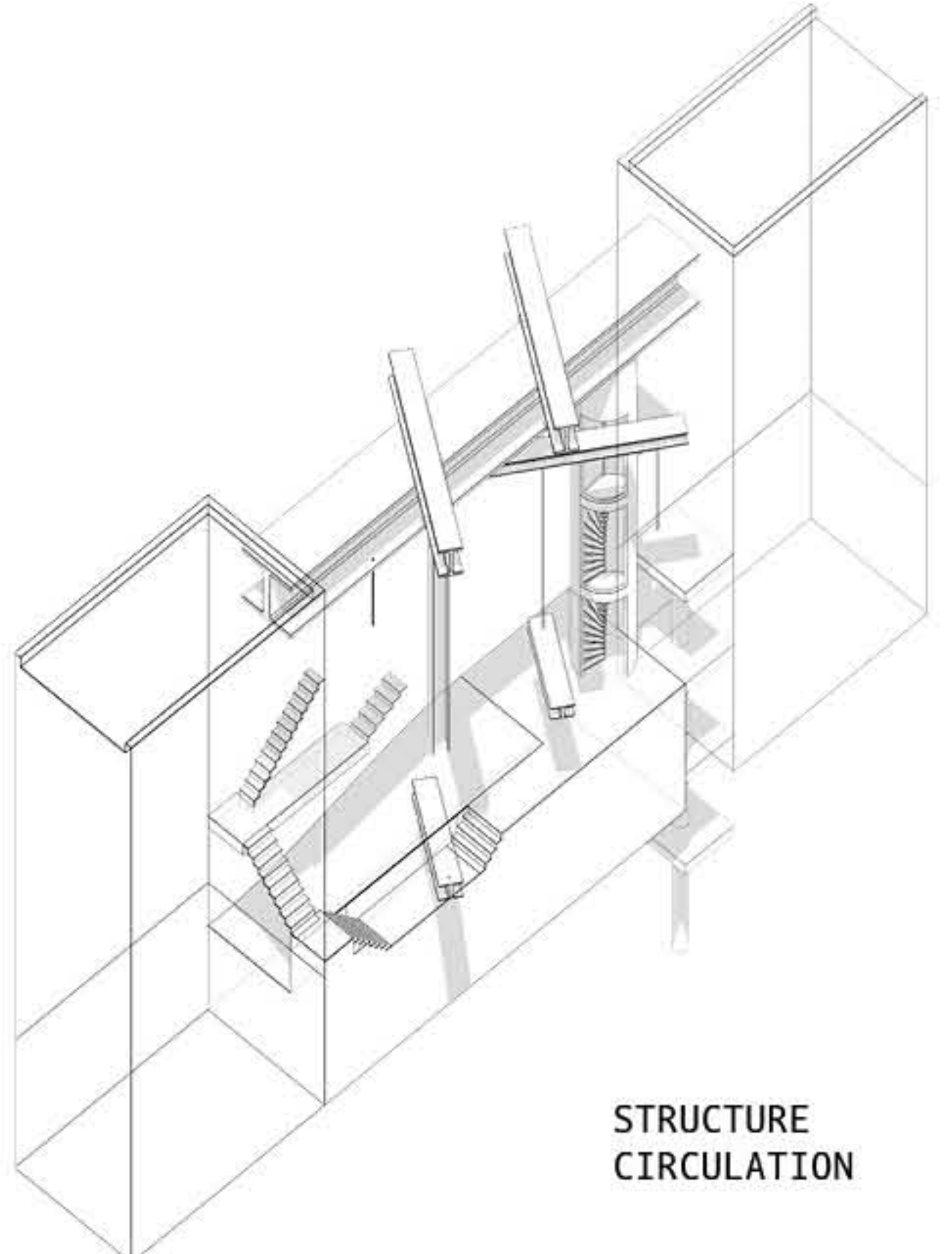
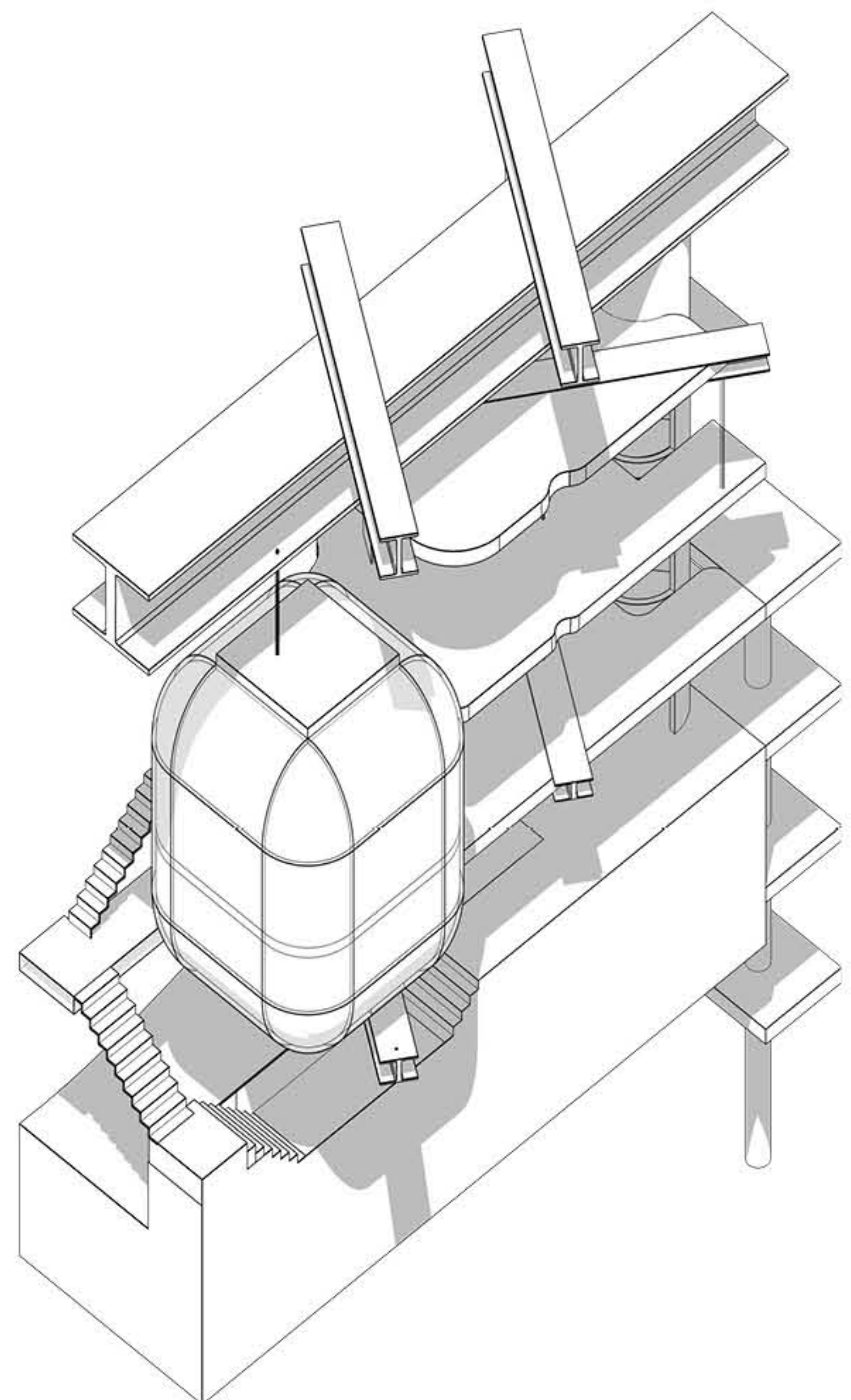


CIRCULATION

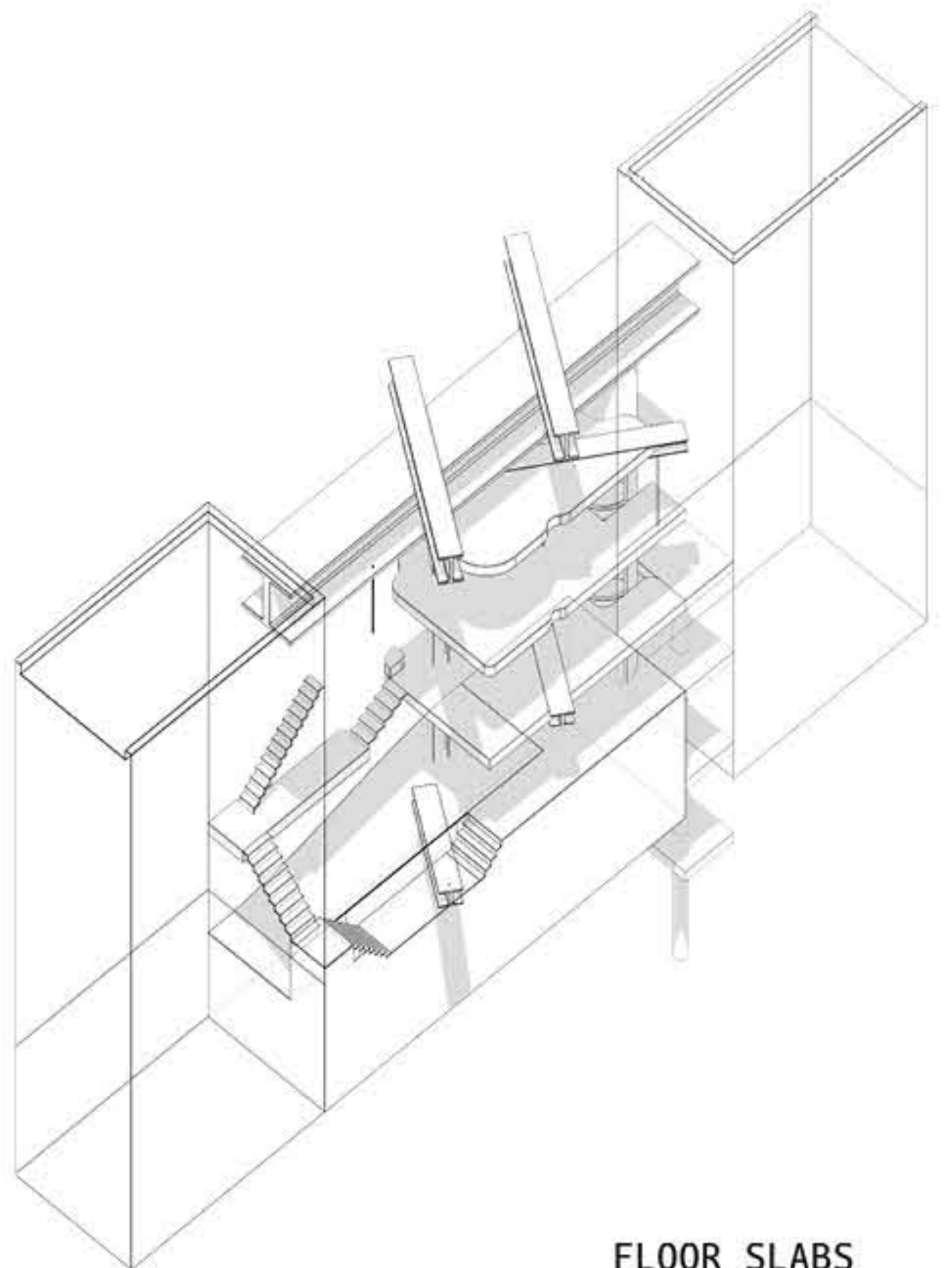


SPACES

DOMINO DIAGRAM



STRUCTURE  
CIRCULATION



FLOOR SLABS

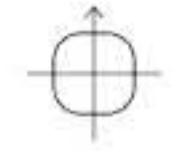
DIAGRAMS  
PRECEDENT STUDY  
( ///□ )

Initiated with an in-depth examination of Rem Koolhaas' Maison à Bordeaux, the project meticulously analyzed its architectural intricacies. Drawing inspiration from Le Corbusier's Domino Diagrams—emphasizing columns, slabs, and circulation—the design process delicately tailored these elements to suit the distinctive context.

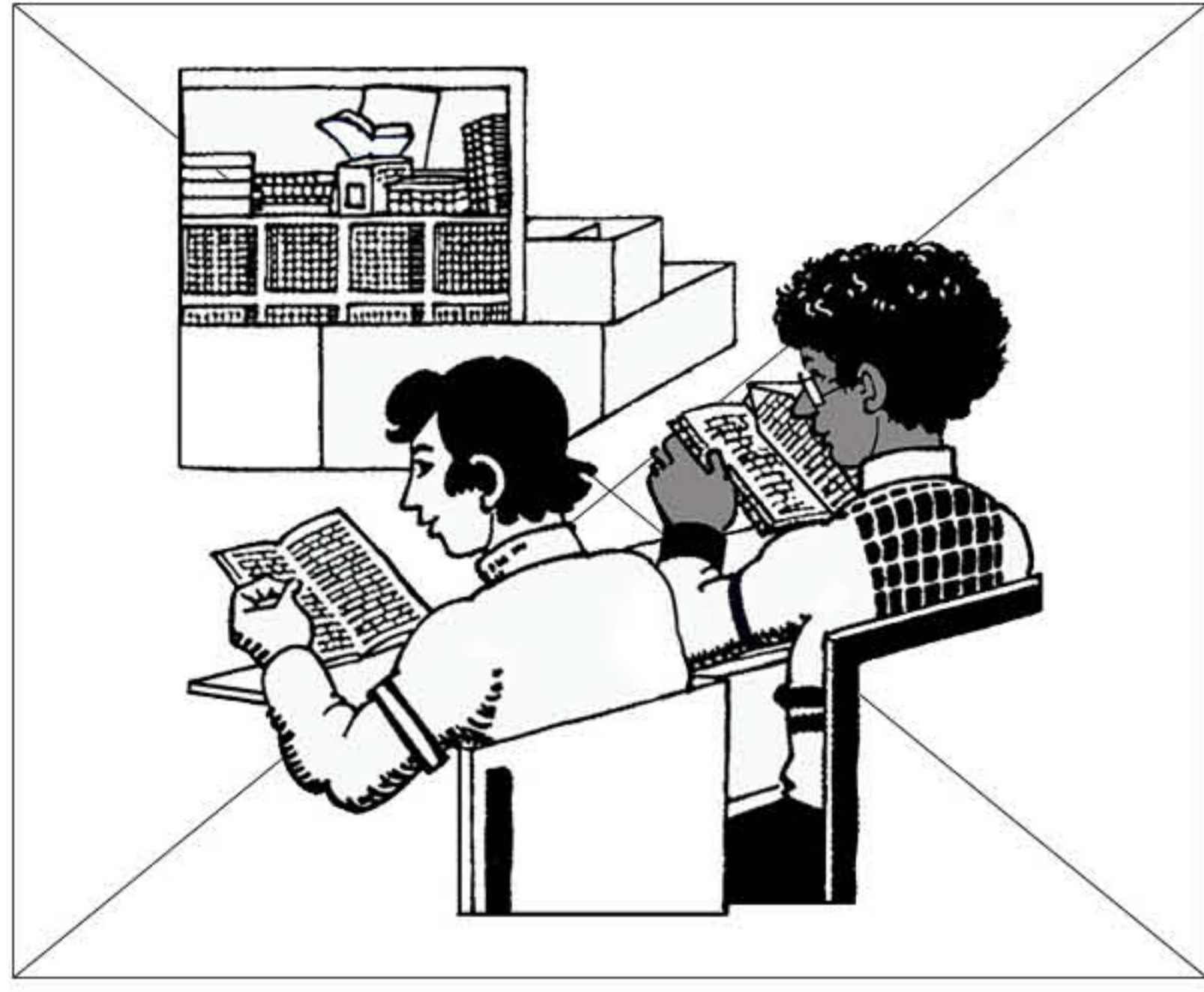
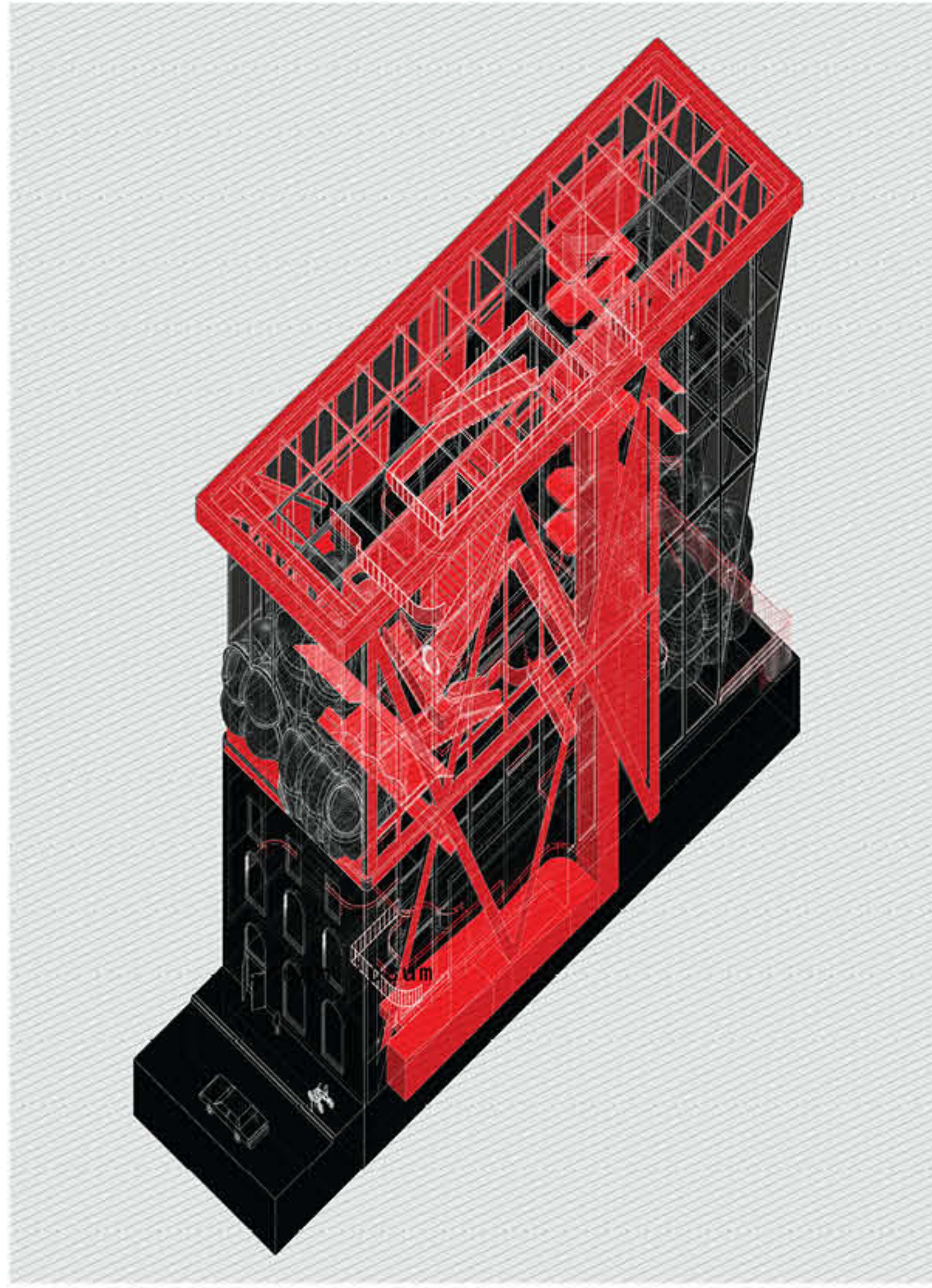
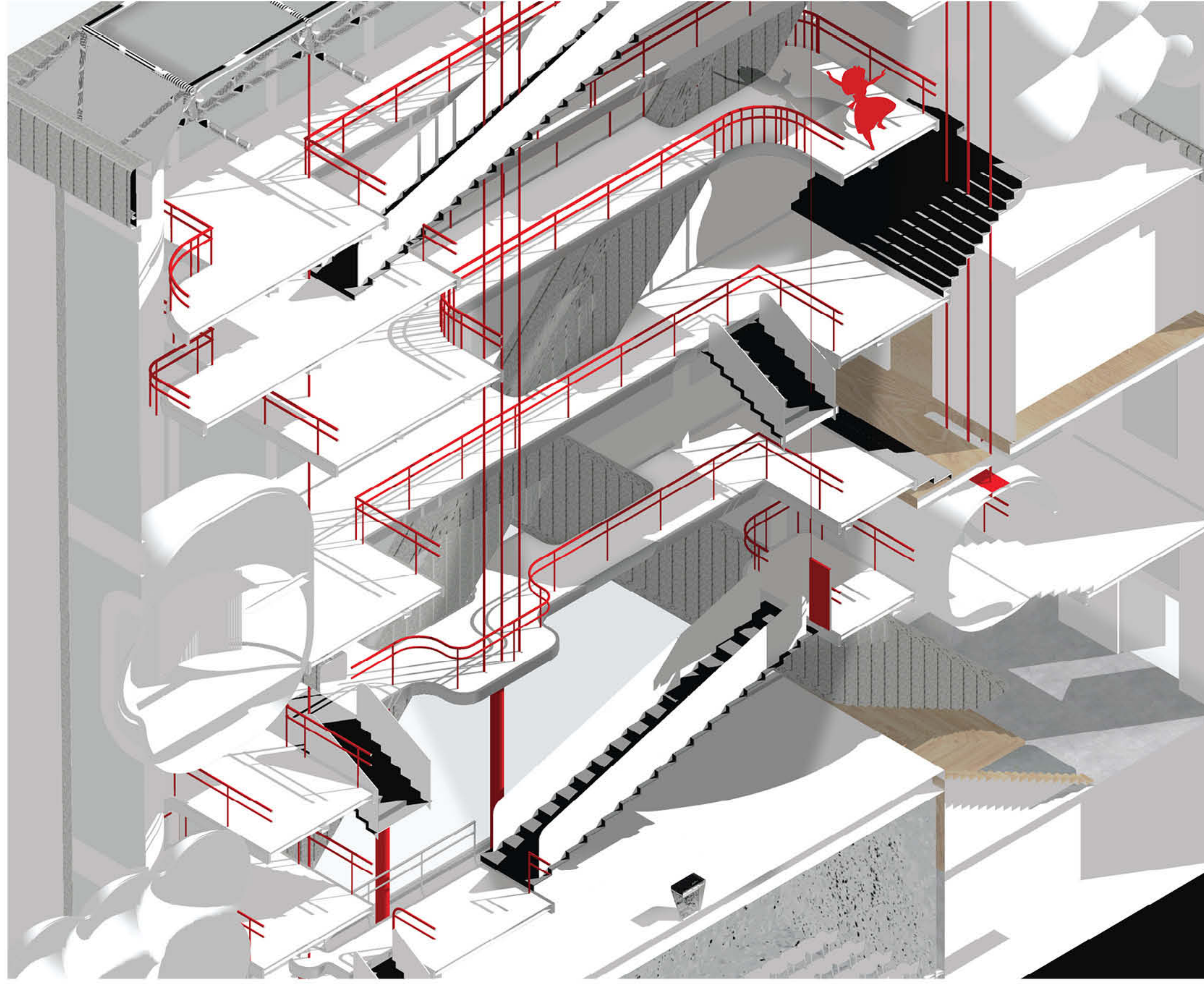




RHINO + PS + AI    FUN ARCHITECTURAL DRAWINGS    WOODSTOCK LIBRARY 202\_SP2022

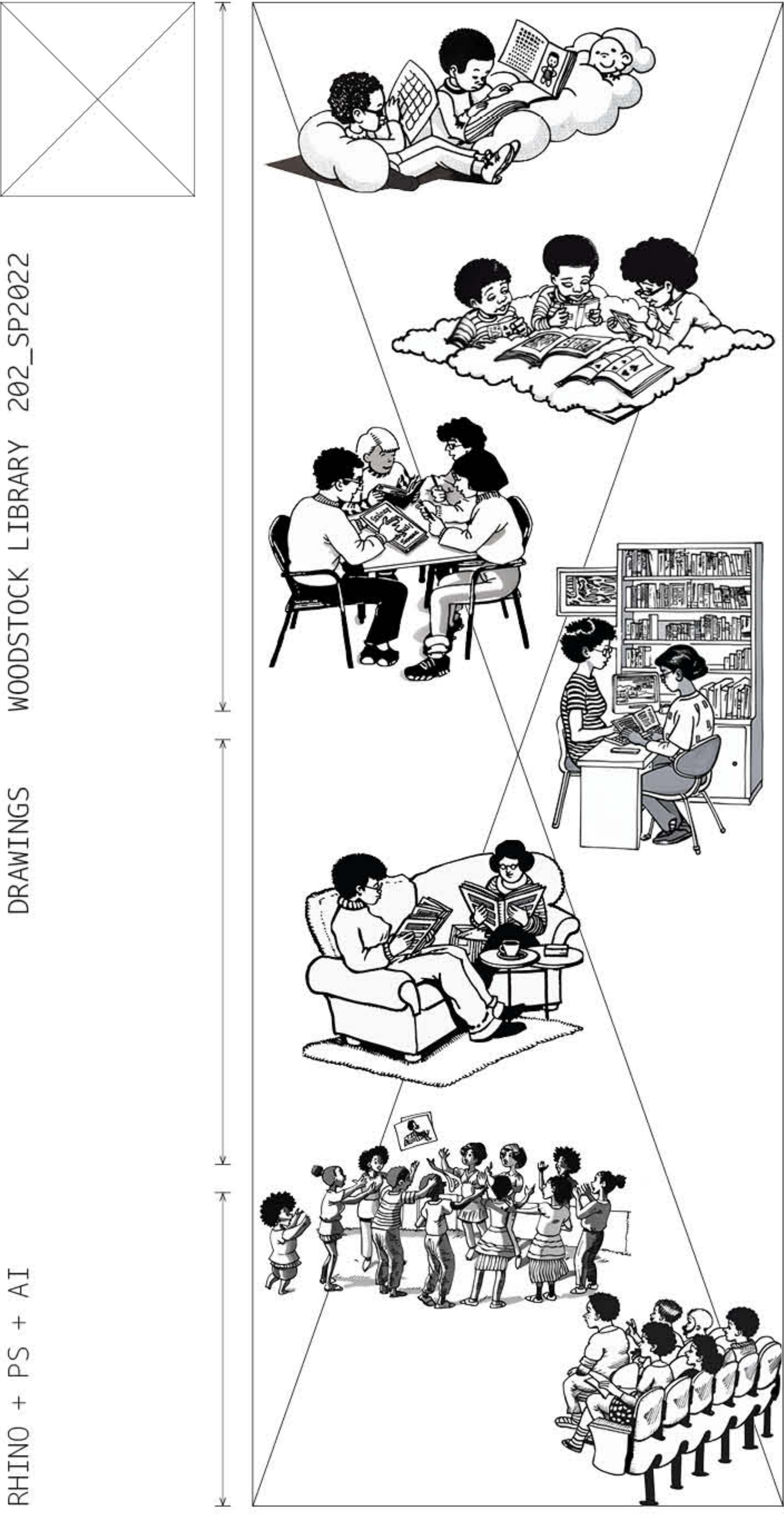


AXON  
DRAWINGS

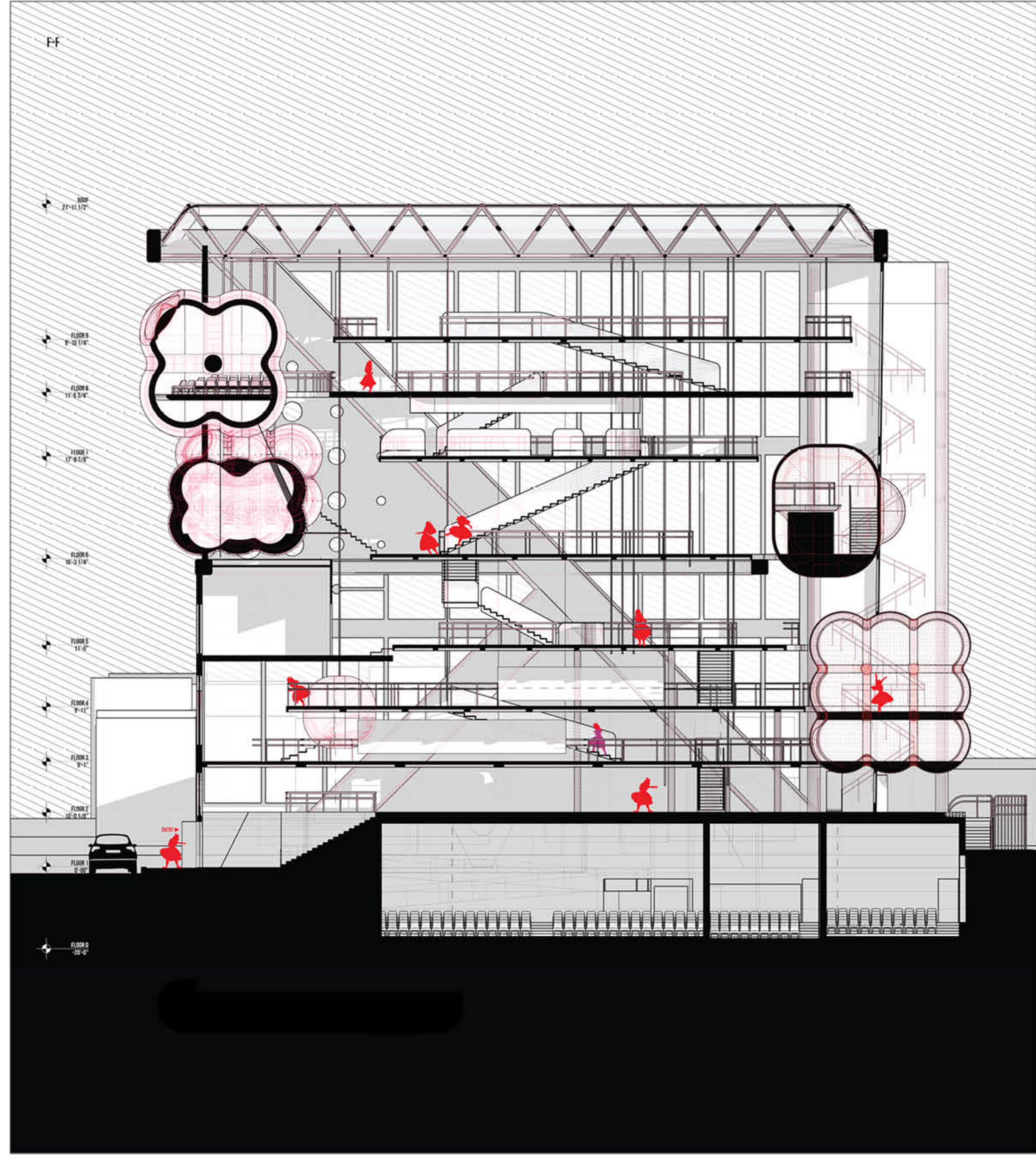
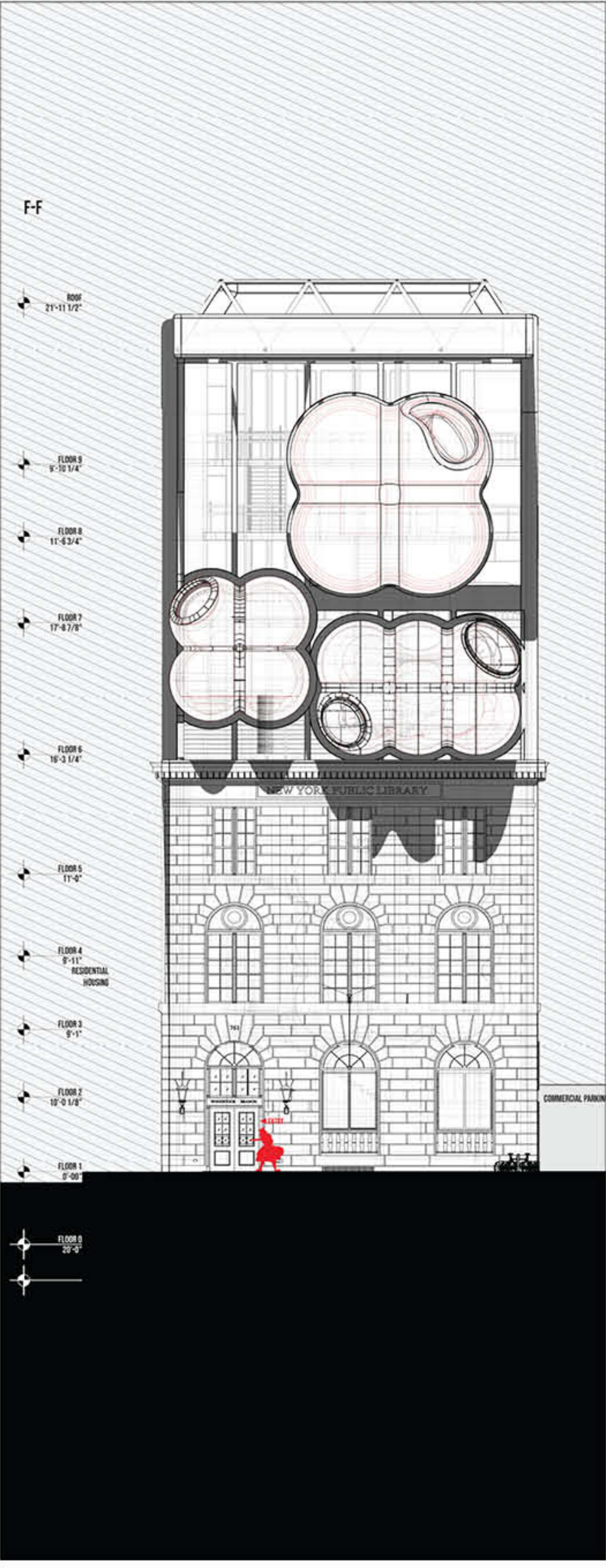


The diagrams illustrate the progression of program placement throughout the design process. The initial massing involved subtractive considerations to align with the context. Subsequently, internal massing volumes were strategically positioned to correspond with the interior programs, aiming to establish a cohesive relationship between the interior and exterior spaces. Ultimately, the design intentionally centers around the original exterior pool area, highlighting it as the focal point of the overall program.



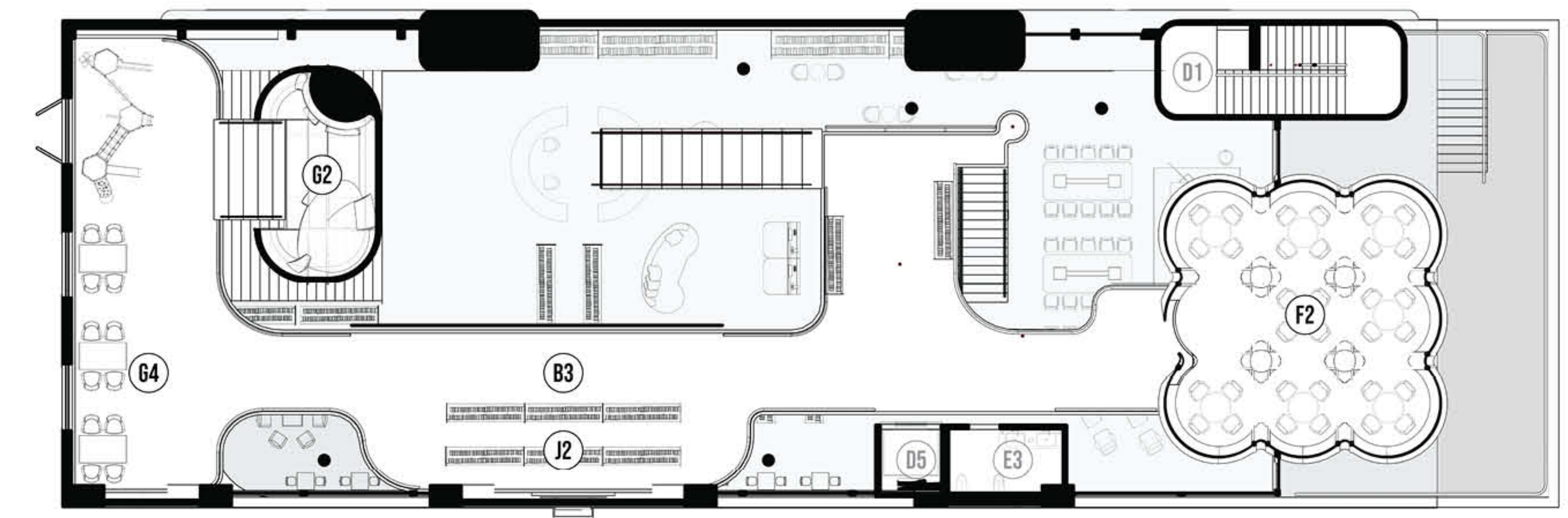
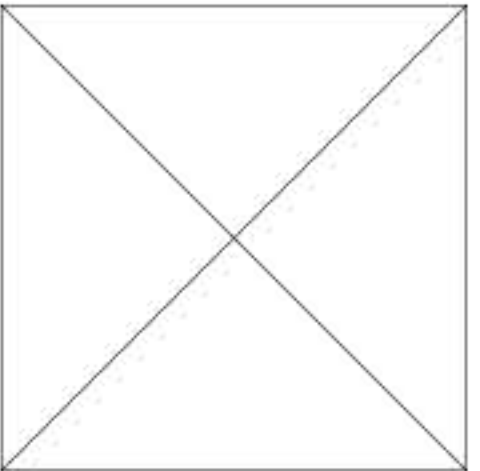


SECTION  
ILLUSTRATIONS  
1/8"= 1'-00"



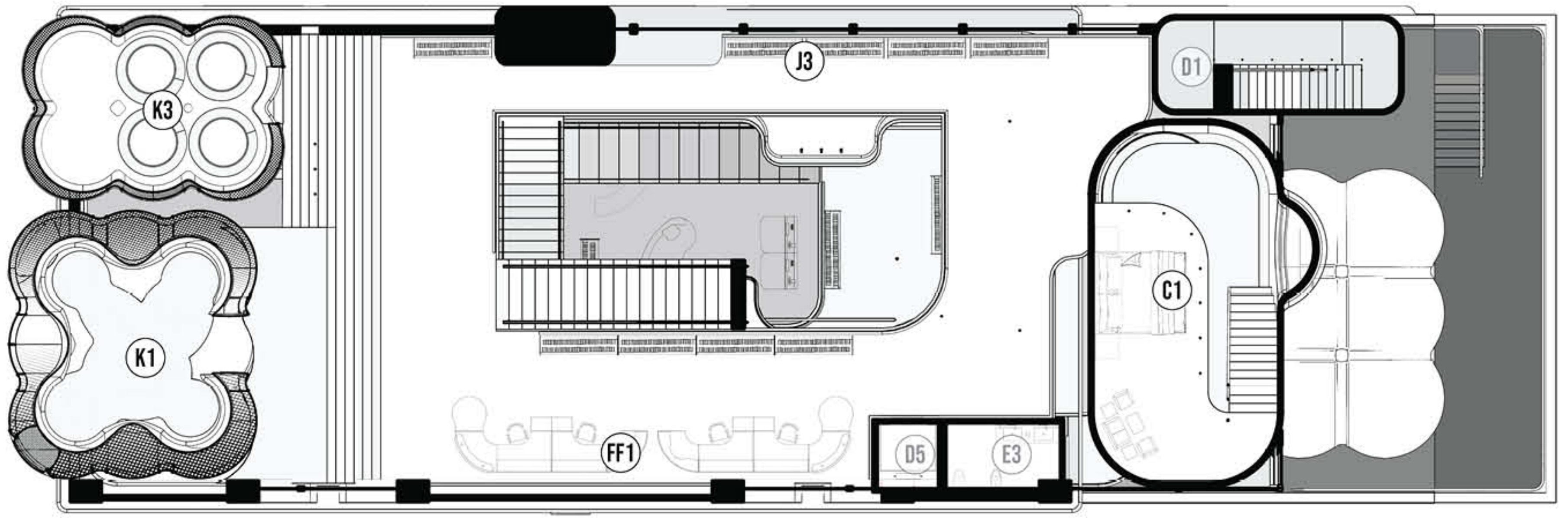
The project employs a hierarchical design approach: the basement is dedicated to event spaces and theaters; the lower levels contain traditional reading areas and resources for adult learning; the middle section is reserved for educational facilities; and the upper floors feature brightly lit spaces designed for interactive learning and reading.





FLOOR 3

- C1: Staff Room
- J3: Educatopm Resources
- F11: Individual Study Units
- K1: Enclosure Meeting Room {1}
- K3: Enclosure Meeting Room {3}



FLOOR 6

- G2: Children Reading Pods
- G4: Parent + Children's Place
- B3: Suspension Artwork Display
- J2: Children Books
- F2: Silient Reading Room





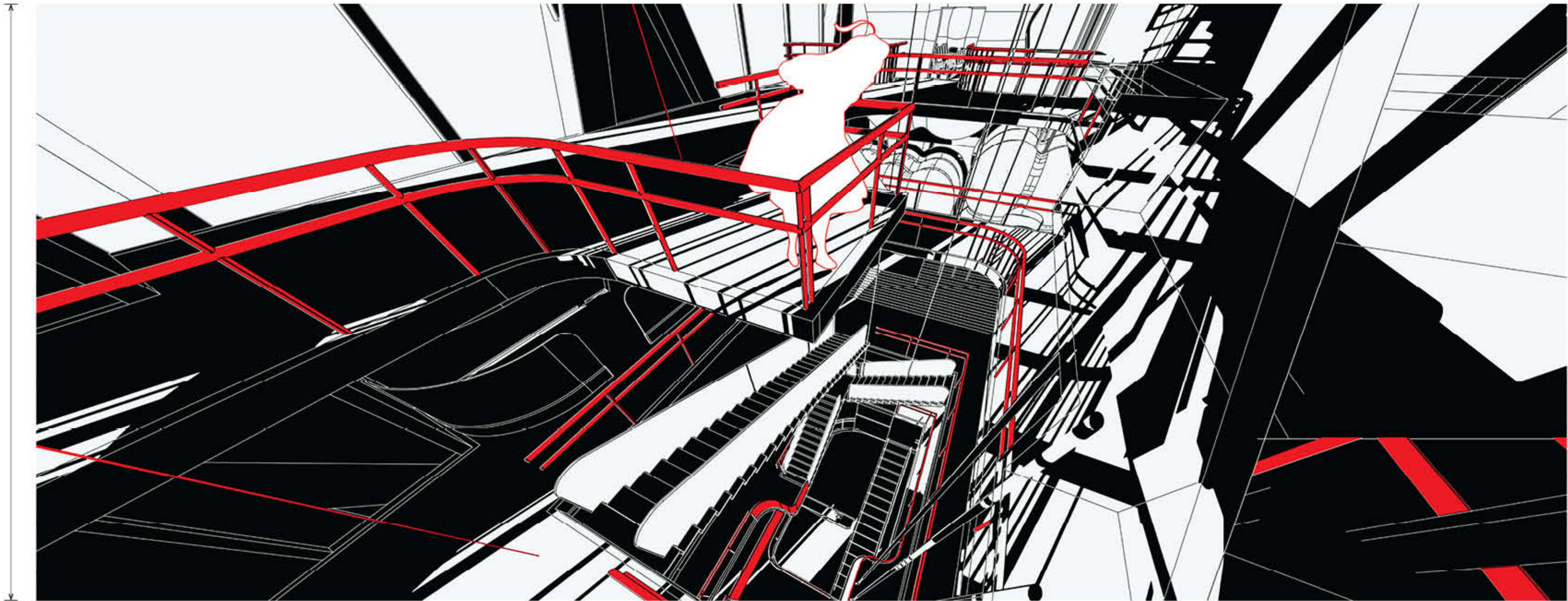


WOODSTOCK LIBRARY 202\_SP2022

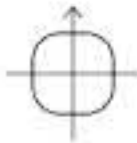
RHINO +SKETCHUP + PS + AI GRAPHIC RENDERING



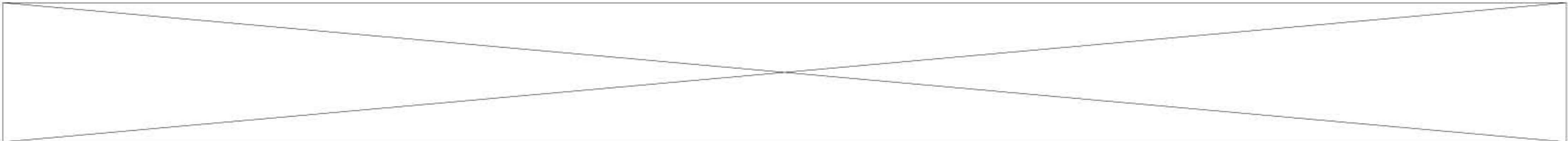
**READING CLOUDS**  
View of Library's Enclosed Reading Rooms: Cloud Volumes



**UPPER LEVEL OVERLOOK**  
Interior View of Library's Central Void:  
A Space for Circulation and Visual Connection

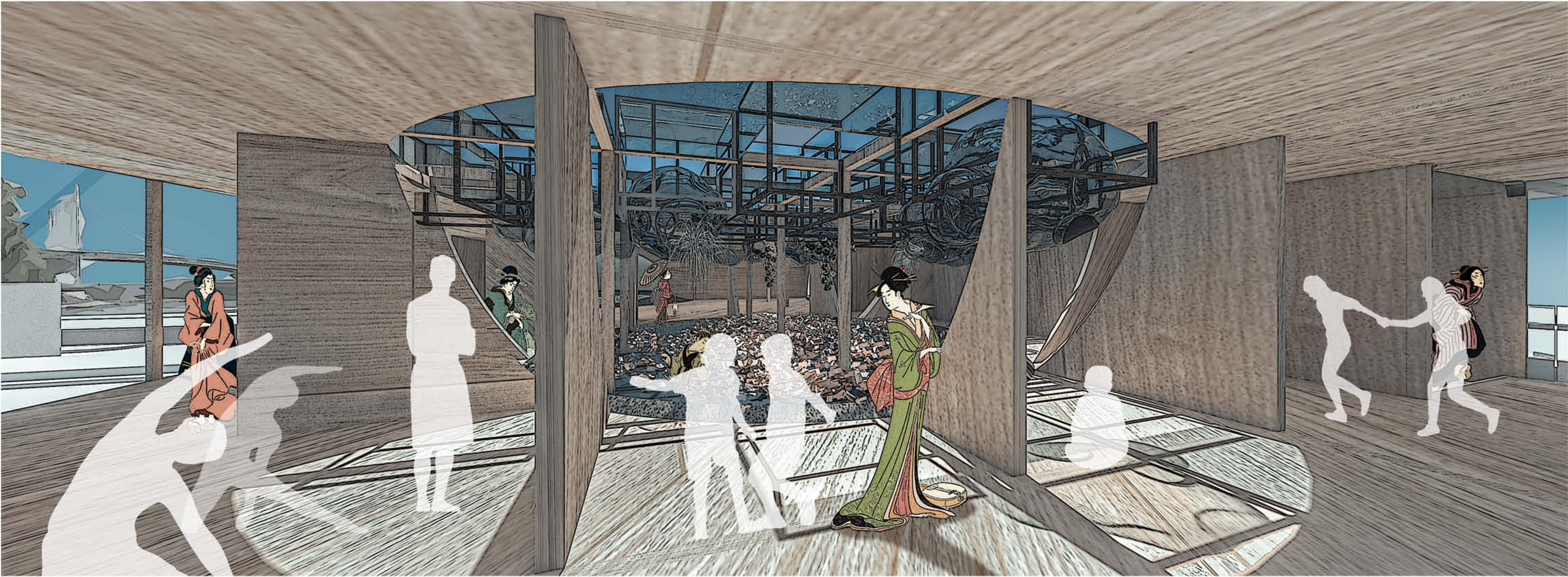
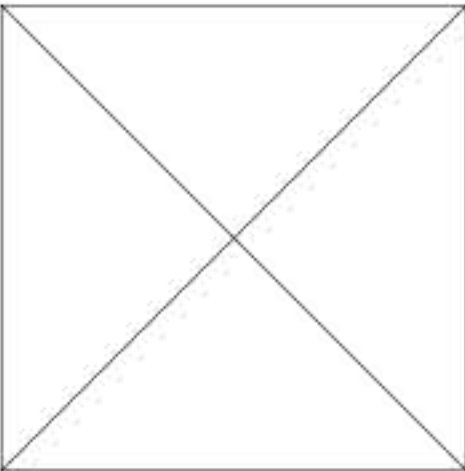


GRAPHIC  
RENDERS



Project reposted by PrattSOA





### ASTORIA SAUNA BATHHOUSE

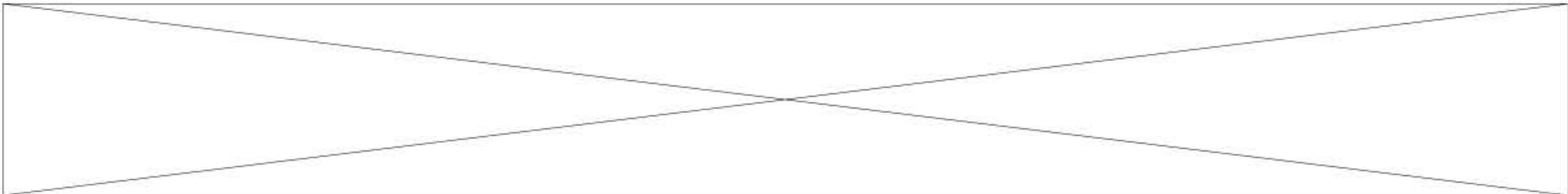
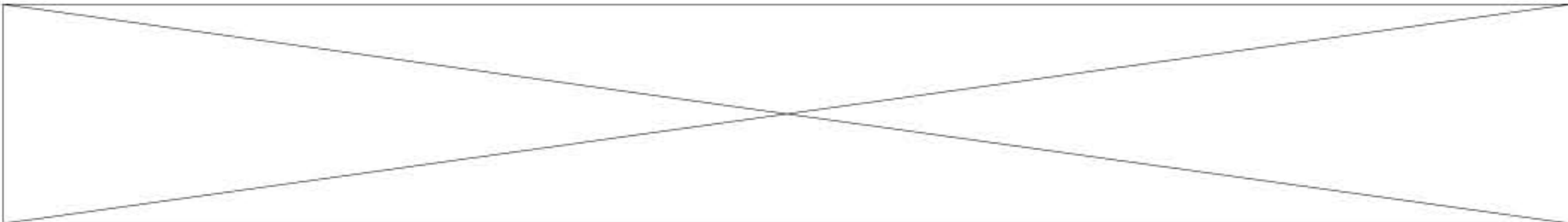
Astoria, Queens, New York  
Bathhouse / Sauna / Community Classroom  
Intermediate Design I - Fall 2021 - Prof. Maria Vrdoljak

The Astoria Park Bathhouse, conceived amidst the COVID-19 pandemic, aims to transform the original poolside area into a welcoming communal space. Located adjacent to the Astoria Outdoor Swimming Pool in Queens, New York, it fosters connections and a sense of belonging among residents. Designed with sustainability in mind, the bathhouse includes strategically placed wet zones, rooftop cooling, and eco-friendly rainwater harvesting systems to minimize environmental impact. Its adaptable programming caters to a broad range of community needs and interests, thereby strengthening social bonds. This initiative reflects a concerted effort to reimagine urban spaces in a way that promotes both environmental health and community well-being.



Enriching the vibrant Astoria Park community, the project serves as a hub for shared experiences and collective engagement. With the addition of recreational and social amenities, such as wet zones and overhang spaces, the bathhouse becomes a dynamic center for community life. It hosts events and activities that bring people together, embodying the community's commitment to environmental stewardship and serving as a model for sustainable urban development.

Furthermore, the Astoria Park Bathhouse symbolizes resilience and hope. It provides opportunities for creativity, self-expression, and personal growth, uplifting and empowering residents. This engenders pride and ownership in their shared community space. Through collaborative efforts and volunteer initiatives, the bathhouse will continue to enhance the park's appeal and strengthen the bonds among residents, ensuring this cherished gathering space thrives for generations to come.





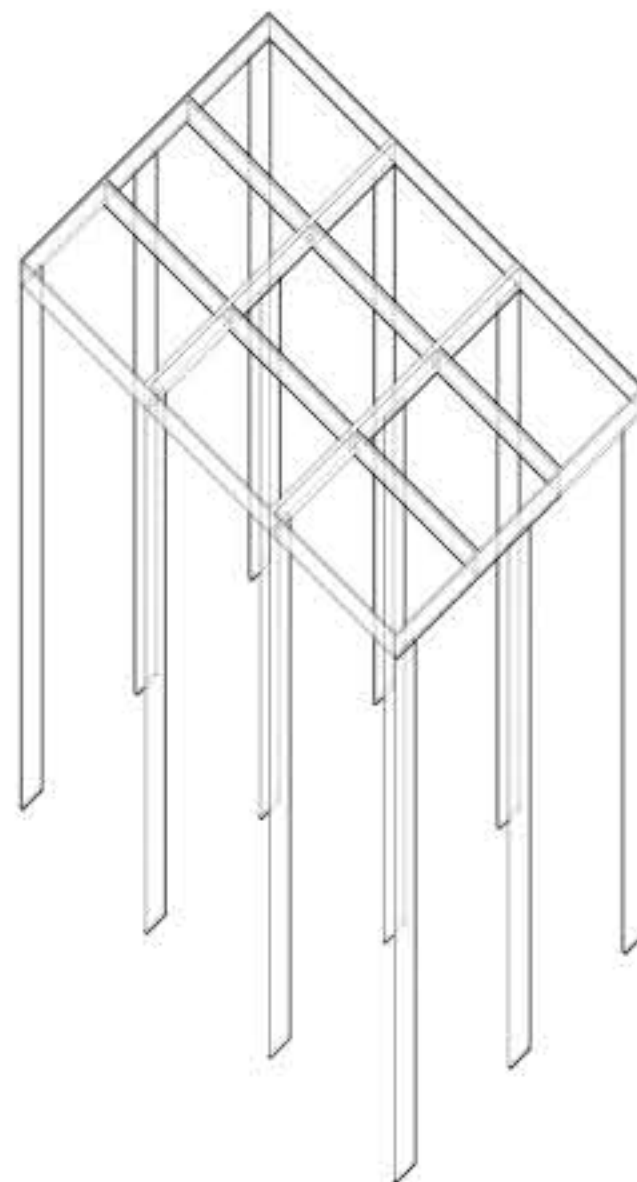


ASTORIA BATHHOUSE 201\_FA2021

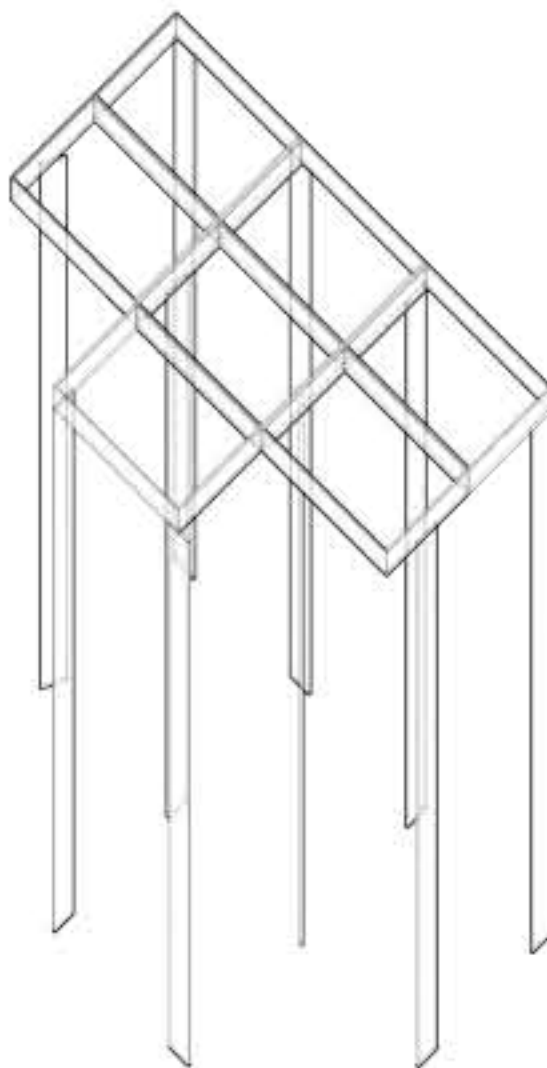
DESIGNS RESEARCH

RHINO + AI

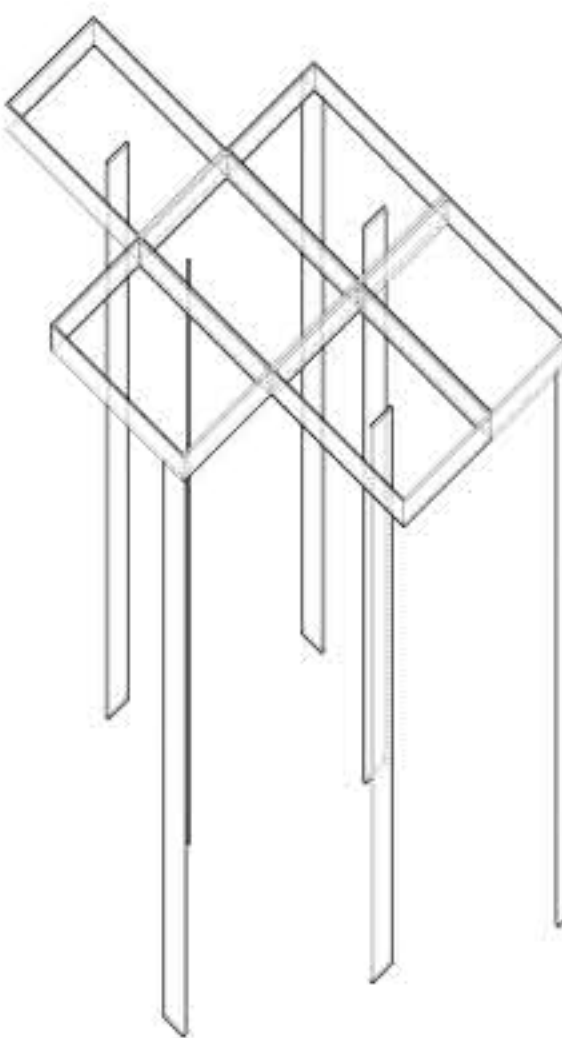
ROOF SYSTEMS



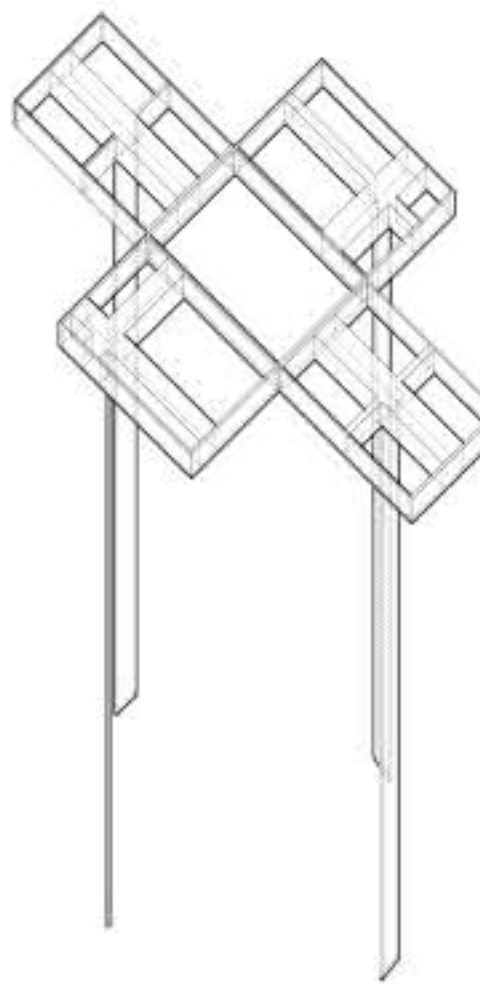
2-WAY GRID SYSTEM



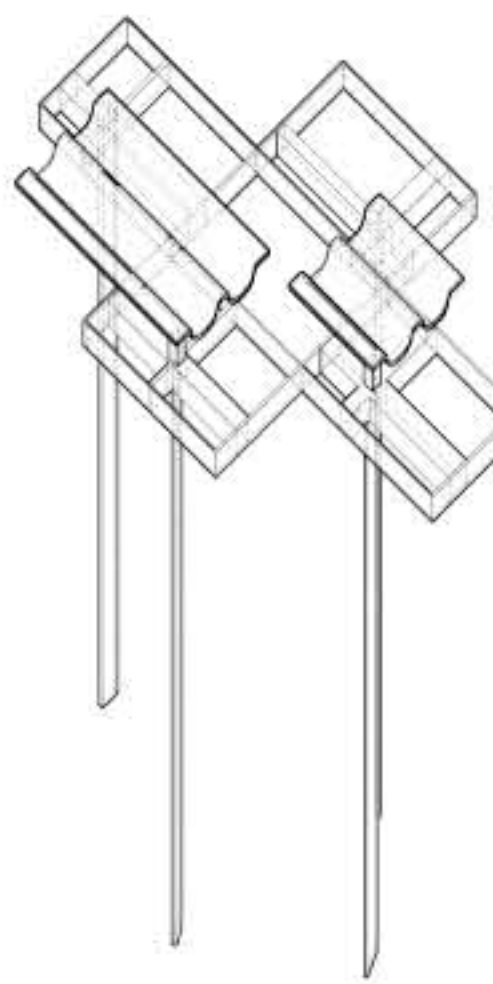
SUBTRACTION OF GRIDS



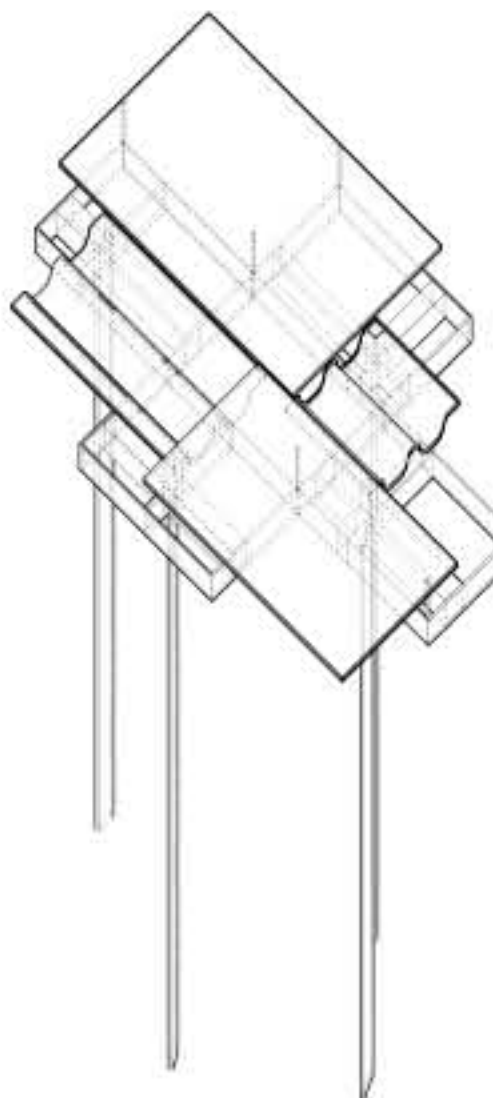
SHIFTING OF PILLARS



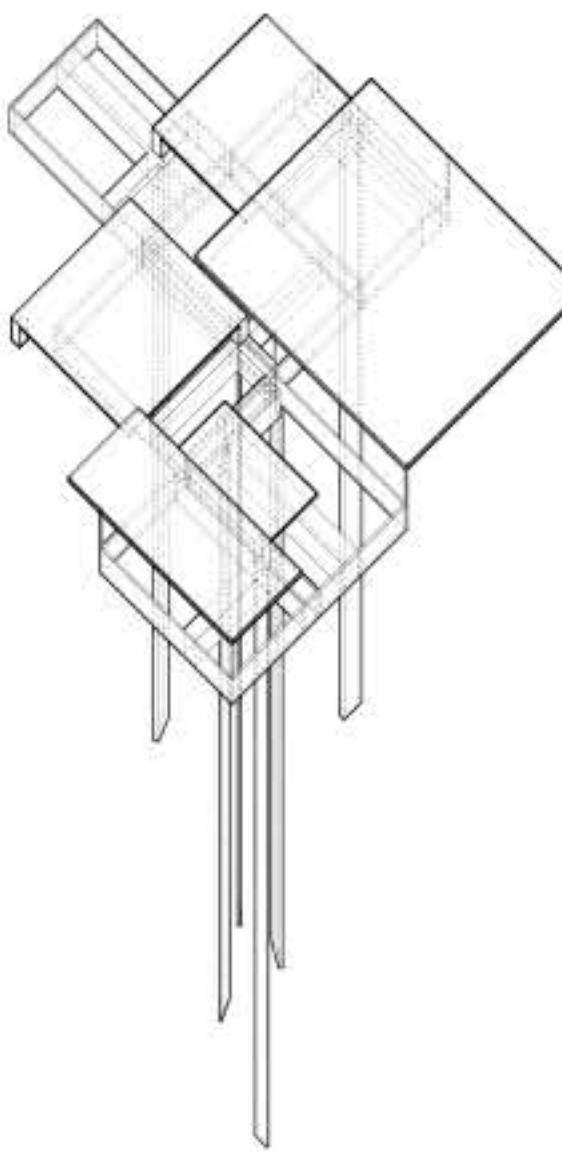
ADDITION OF BEAMS



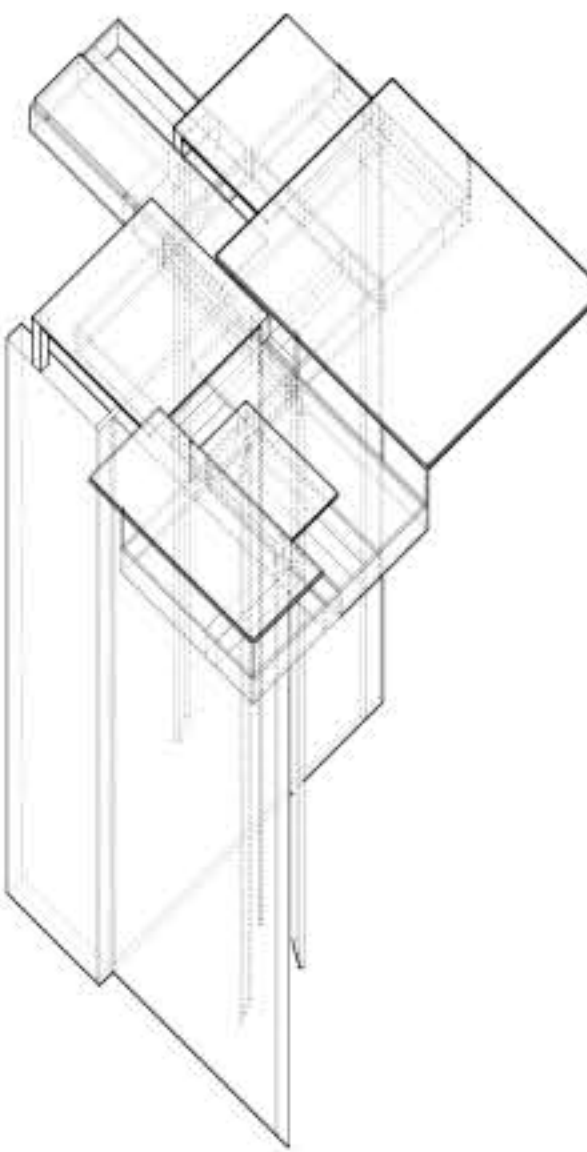
1ST LAYER OF ROOF



2ND LAYER OF ROOF

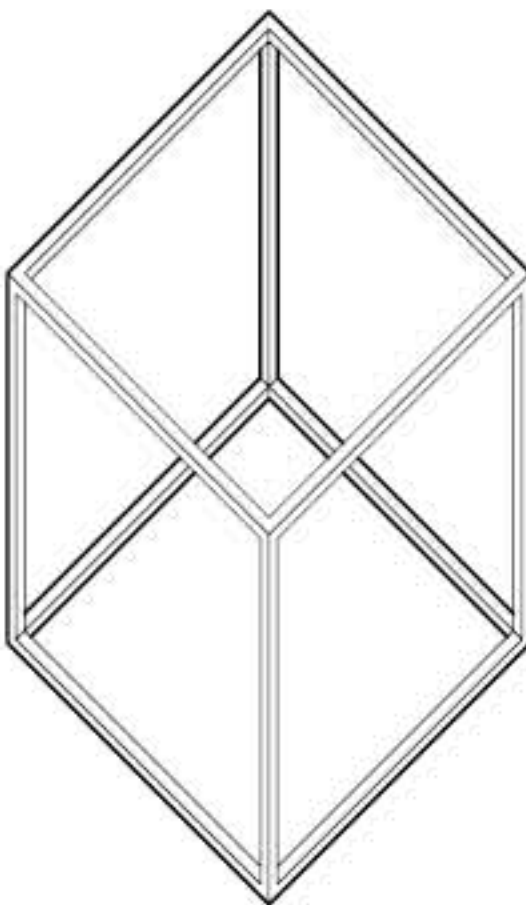


3RD LAYER OF ROOF

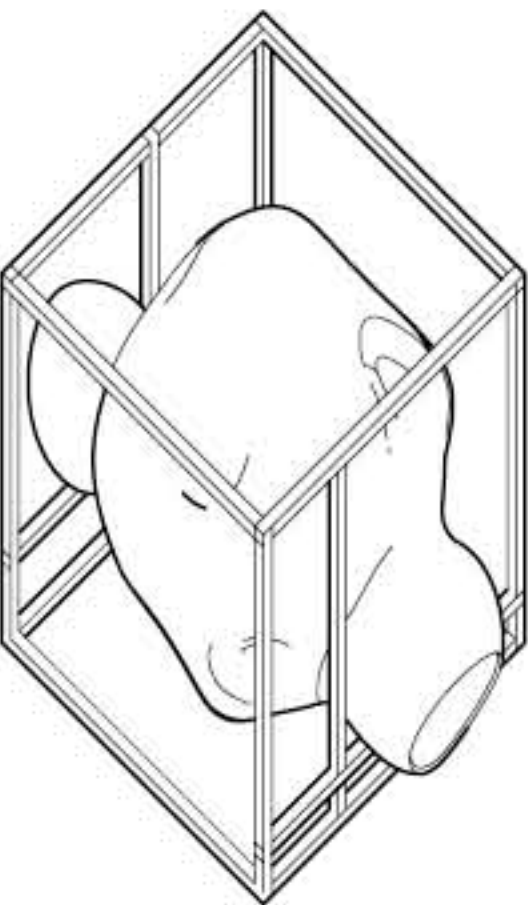


EXTENSION OF COLUMN TO WALLS

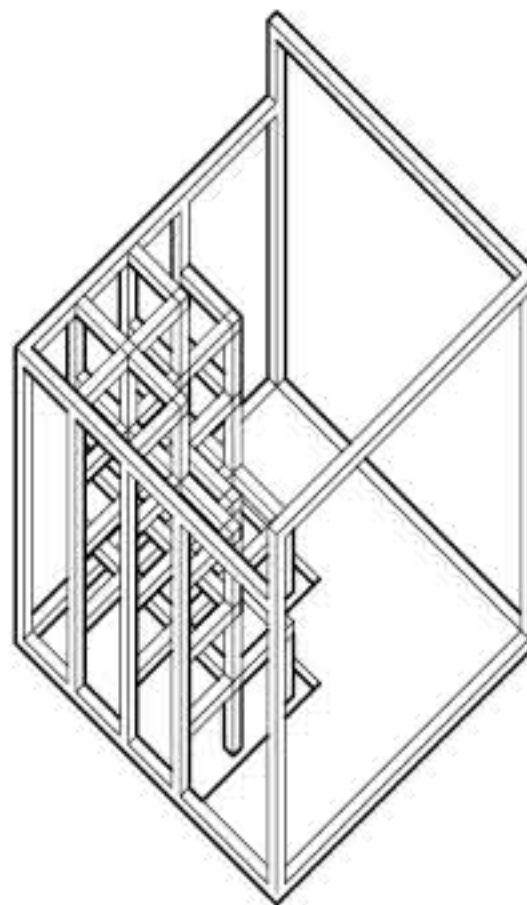
UNIT SYSTEMS



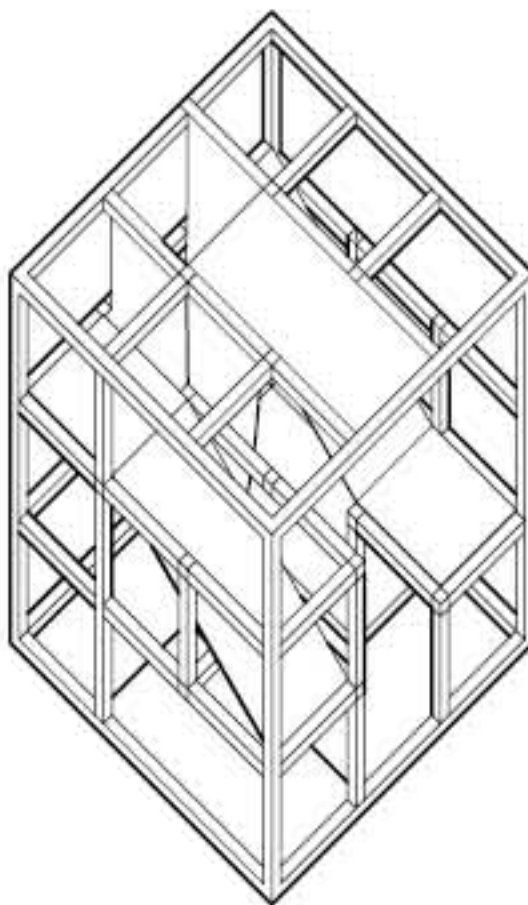
BASE UNIT



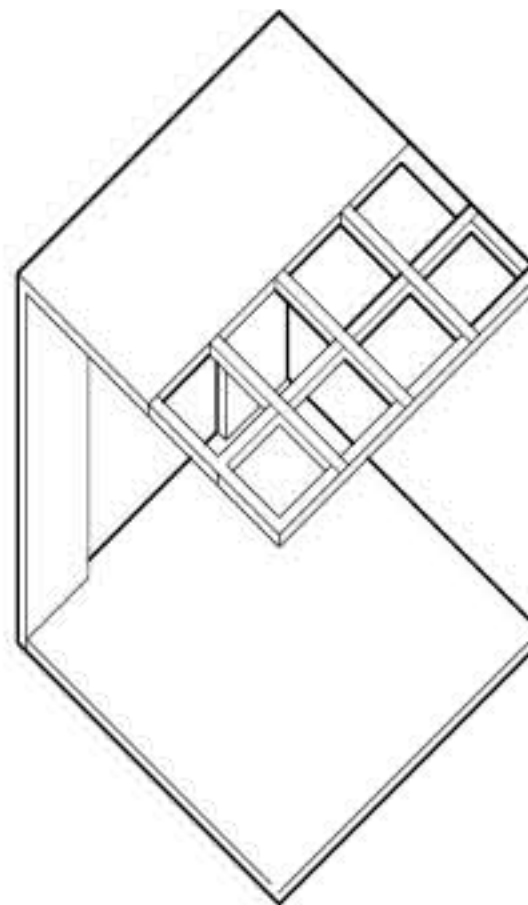
BASE UNIT WITH FORM



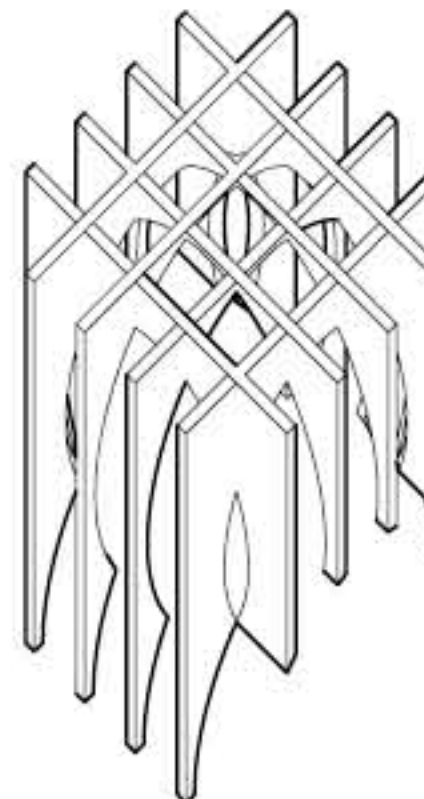
UNITS WITH IN UNIT



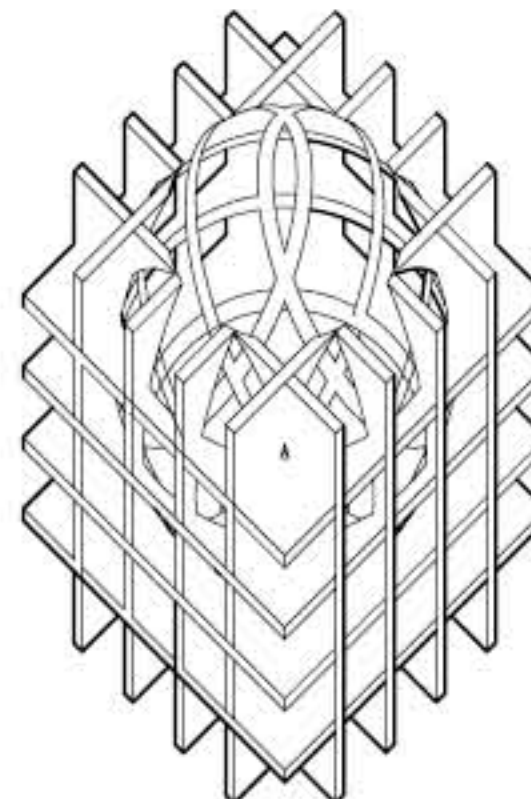
UNIT WITH SURFACES



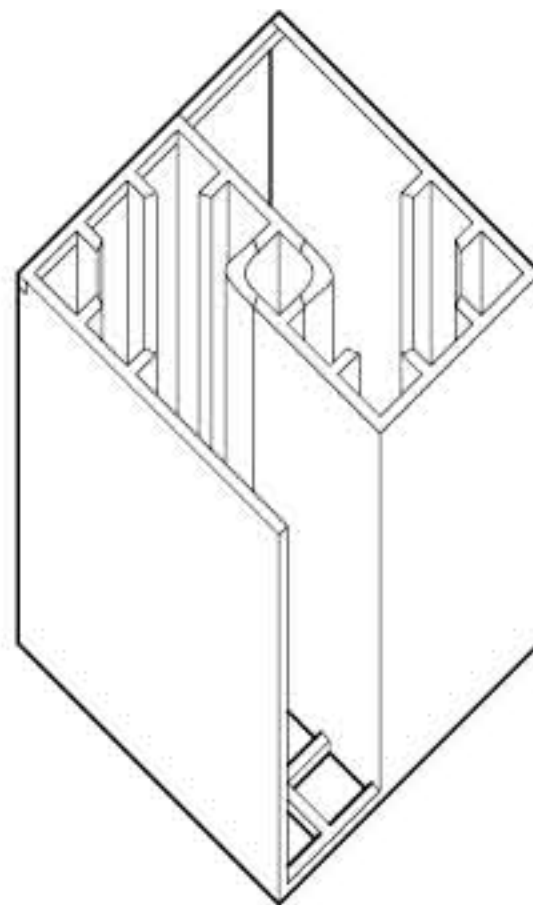
UNIT WITH ROOF



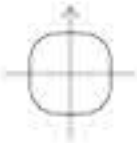
2-WAY WAFFLE UNIT



3-WAY WAFFLE UNIT



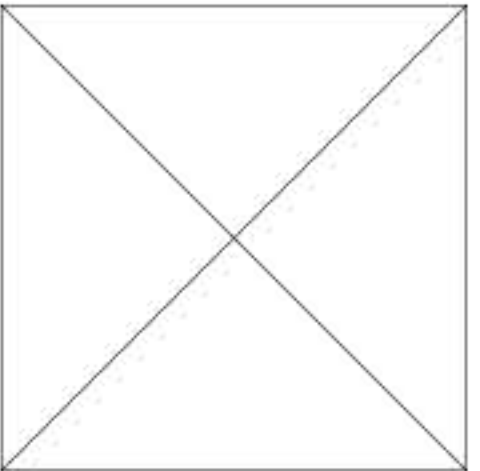
SURFACE & VOLUMN UNIT



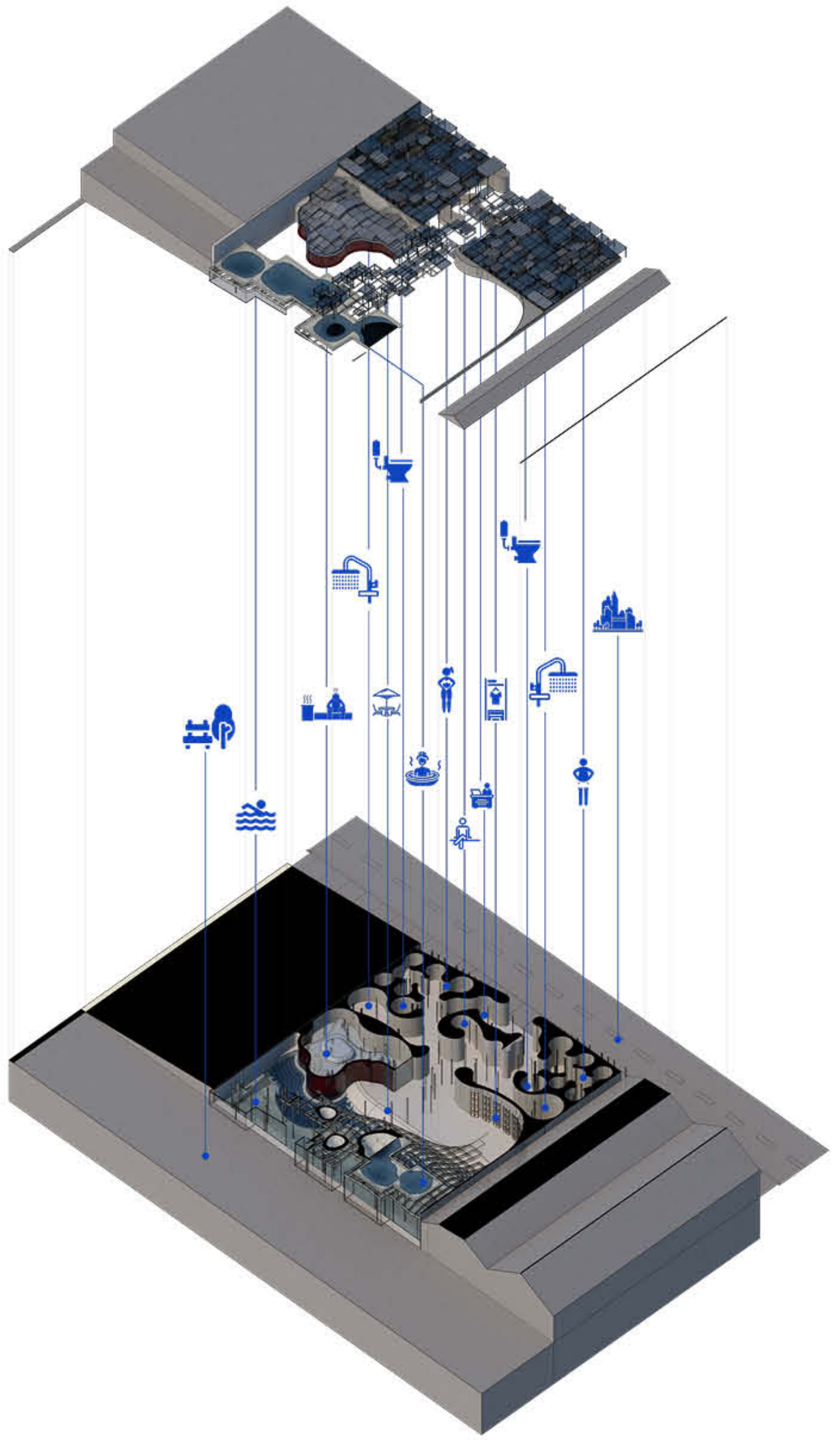
SYSTEM DIAGRAMS  
2 X 8  
ITERATIONS

Initiated with a comprehensive precedent study of the KAIT Workshop by Junya Ishigami, the project delved into the intricate design methodology of the roof system, from which inspiration emerged, sparking innovative ideas for the development of new roof systems. As the project progressed, these ideas evolved into distinct units, each contributing to the overarching vision with intricacy and purpose.



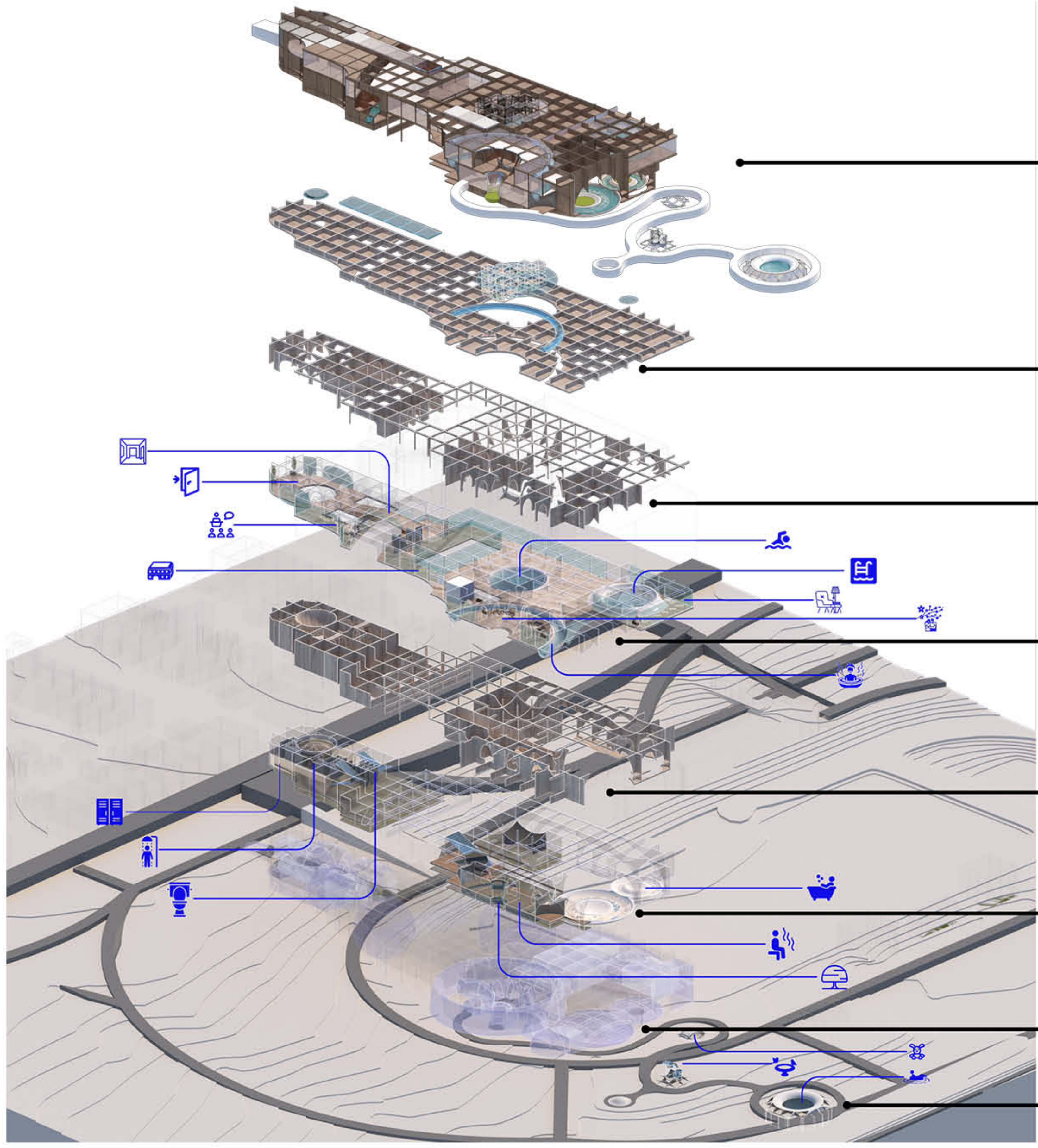


RHINO + VRAY + AI + PS  
EXPLODED DIAGRAMS  
ASTORIA BATHHOUSE 201\_FA2021



A CHUNK  
APPROACH  
PART A

The design process primarily focused on seamlessly integrating the roof system with various programs and ensuring harmonious alignment between the horizontal and vertical planes.



DESIGN  
SAUNA BATHHOUSE  
PART B

The bathhouse / sauna is designed in a mat building style, gracefully integrating with Astoria Park's topography. The program is organized into two major quadrants across two levels: dry facilities are positioned furthest from the pools, and leisure-based amenities are located closer to the poolside. For further details, please refer to the site map on the following page.

UN-EXPLODED

2 WAY ROOF SYSTEM  
Water Collection Roof System  
Passive Cooling  
Water-efficient fixtures

UPPER-LEVEL

UPPER-LEVEL PROGRAMS  
Lobby  
Classroom  
Warm Pools  
Flower Viewing  
Leisure Space

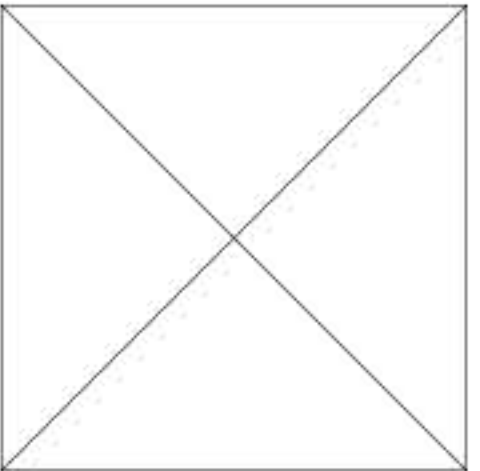
LOWER-LEVEL

LOWER-LEVEL PROGRAMS  
Sauna  
Outdoor Pools  
Lockers + Showers

MASSING RENDER

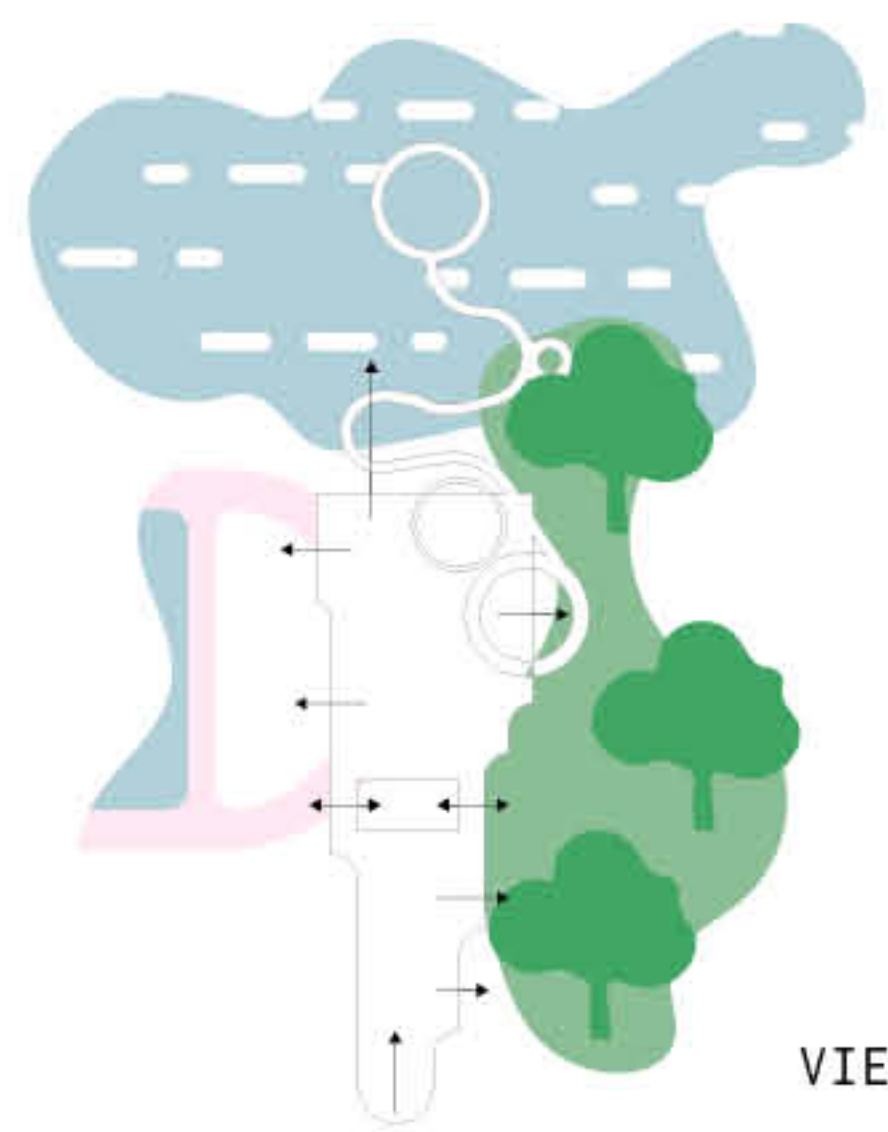
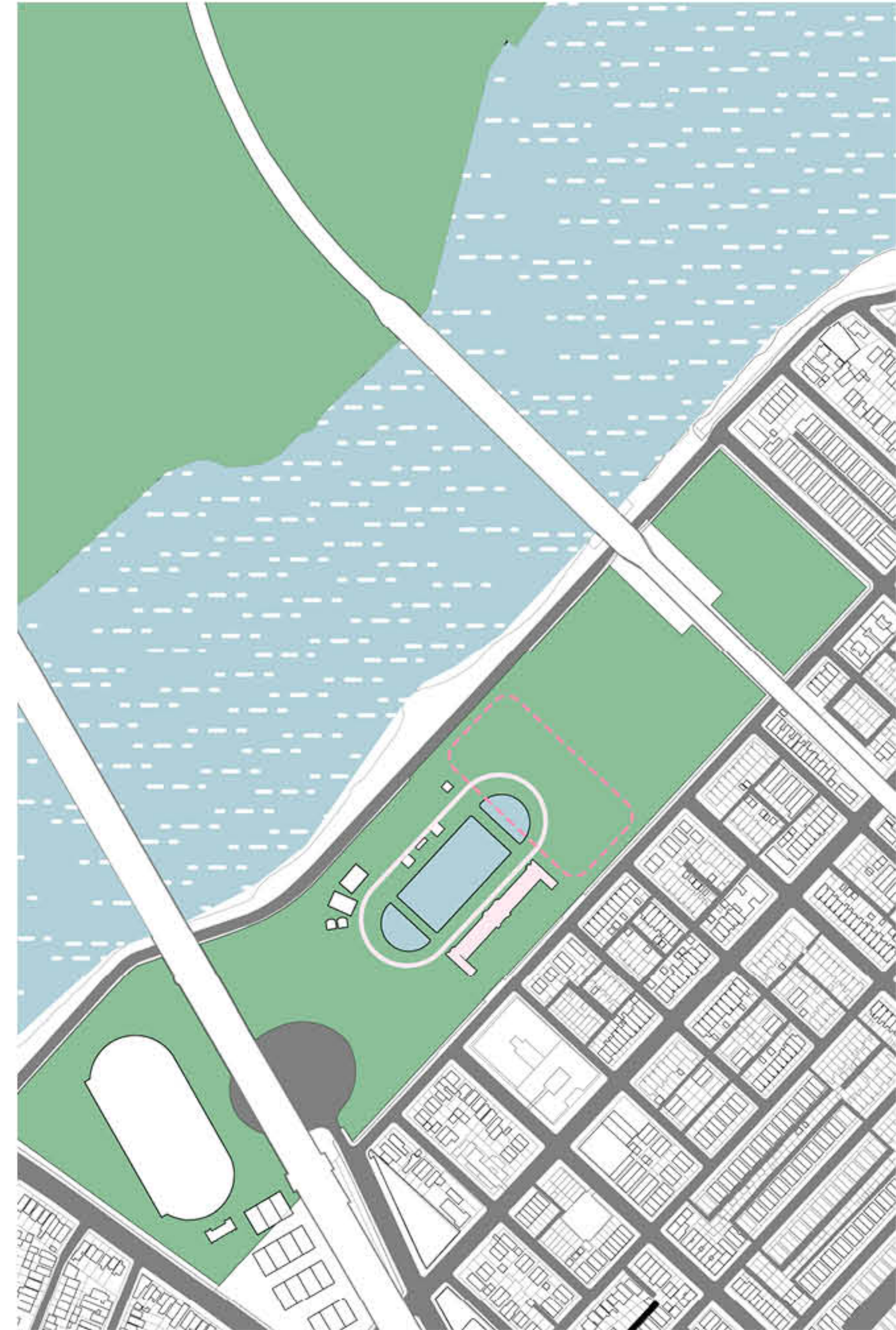
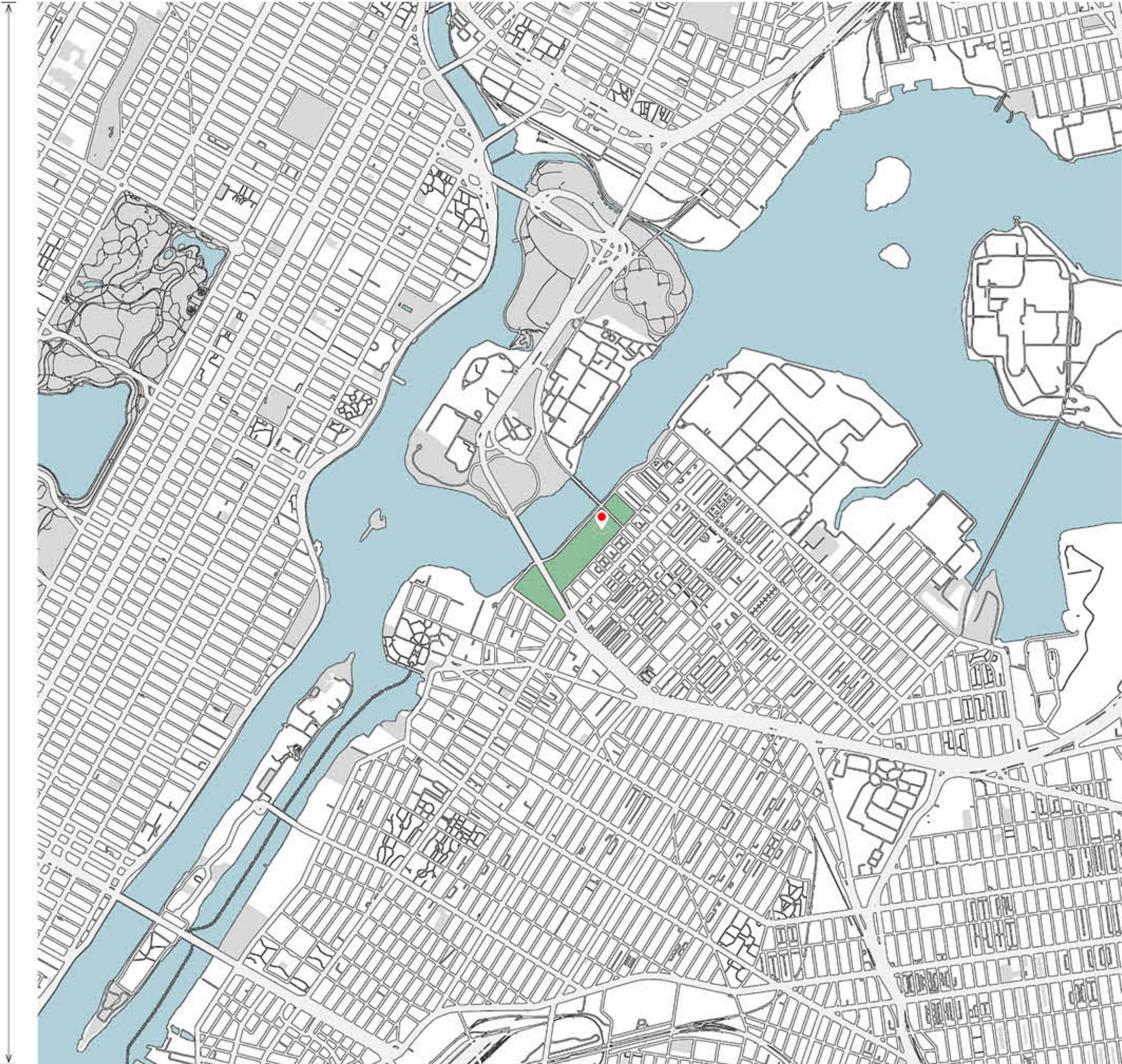
OUTDOORS PROGRAM  
Sea Pool  
Bird Bath





SITE & APPROACH    ASTORIA BATHHOUSE    201\_FA2021

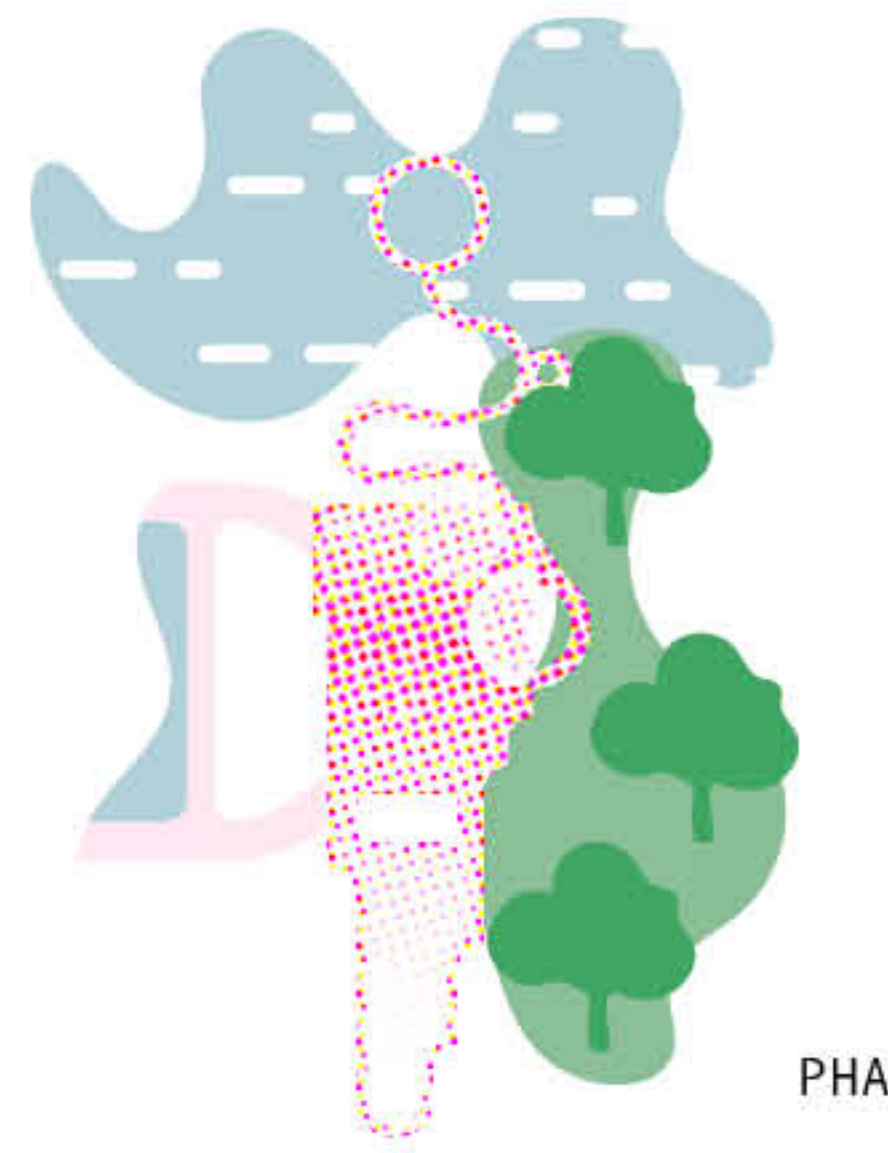
RHINO + AI



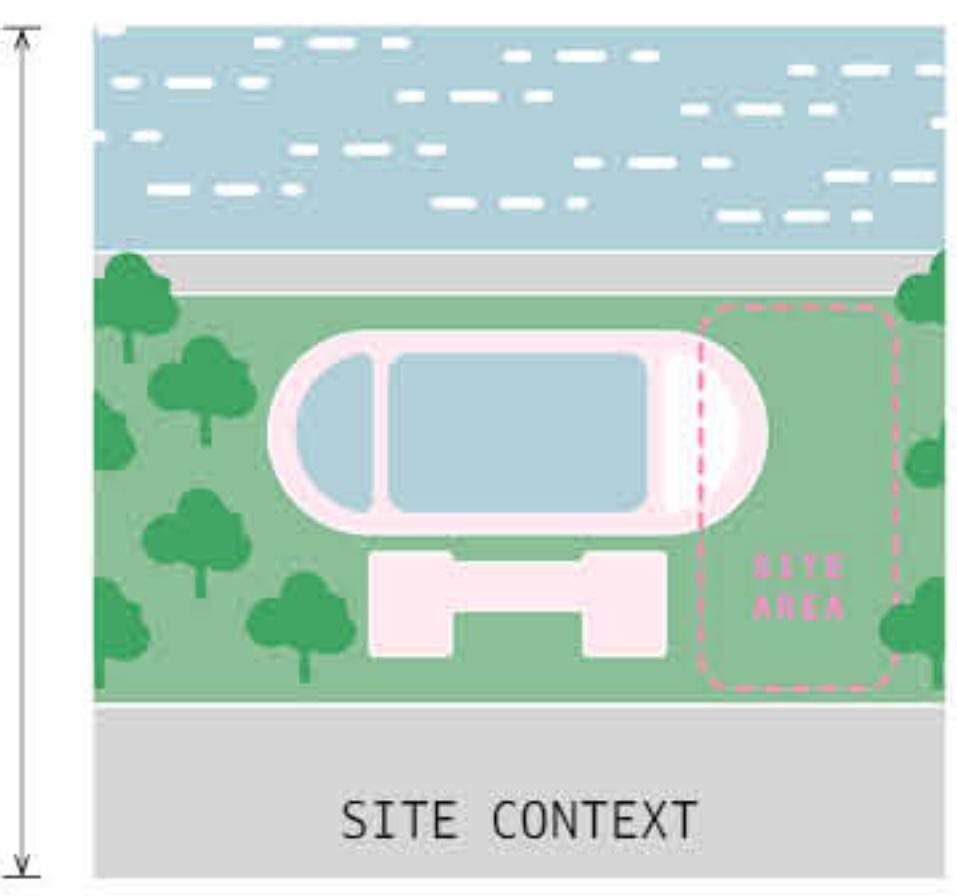
VIEWS



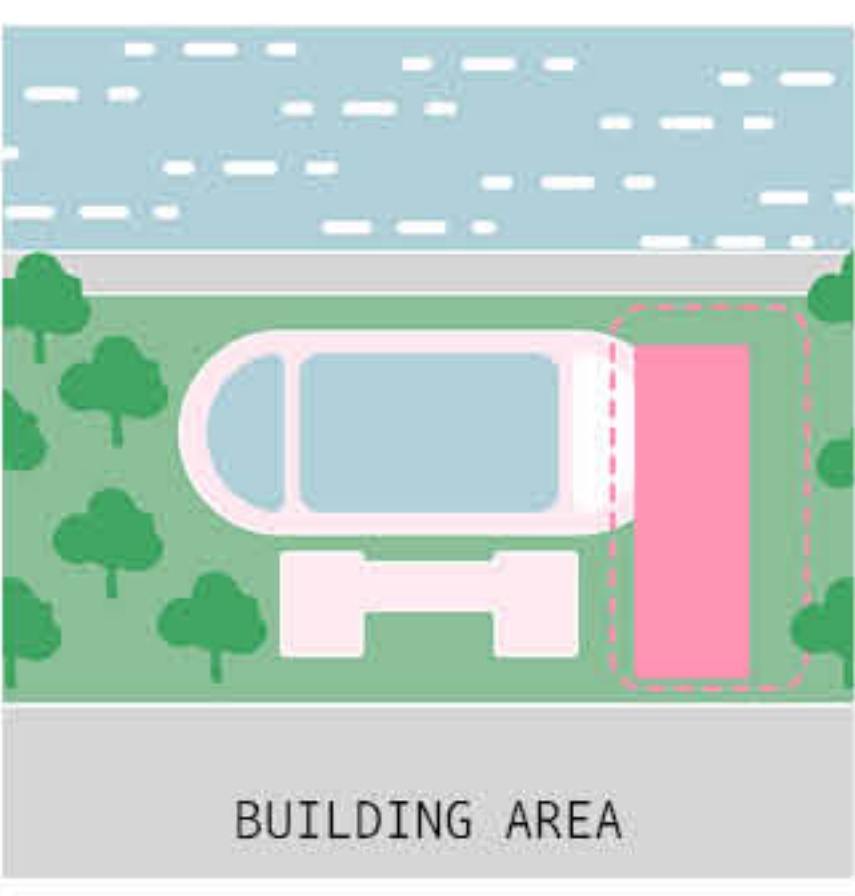
ATTRACTORS



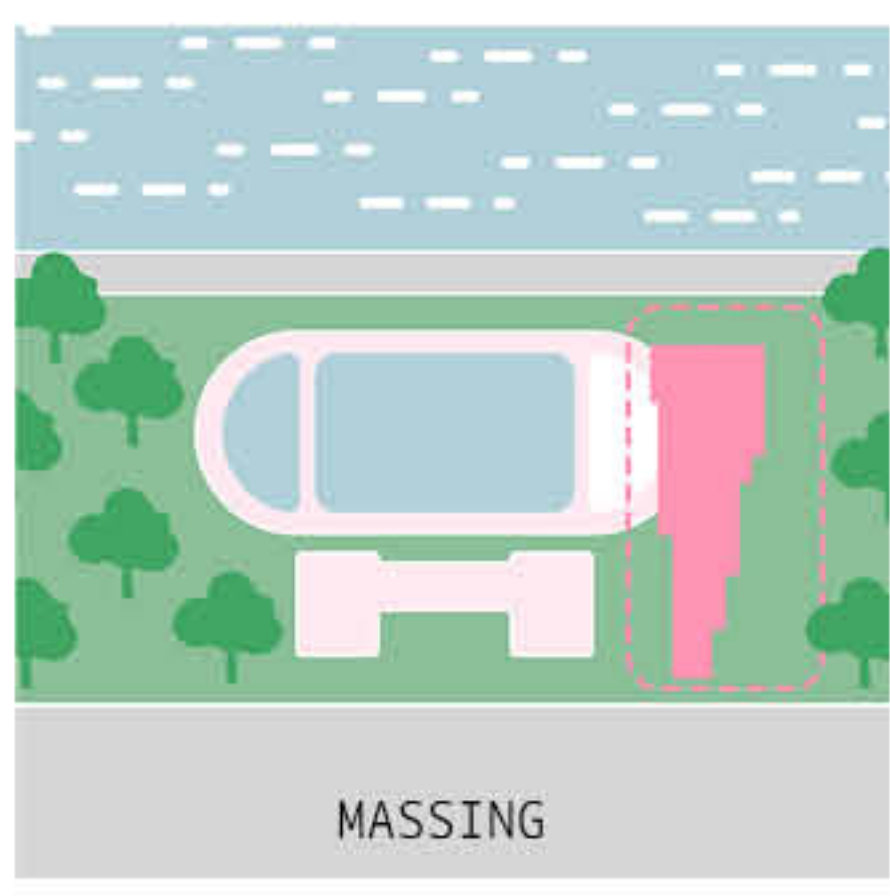
PHASING



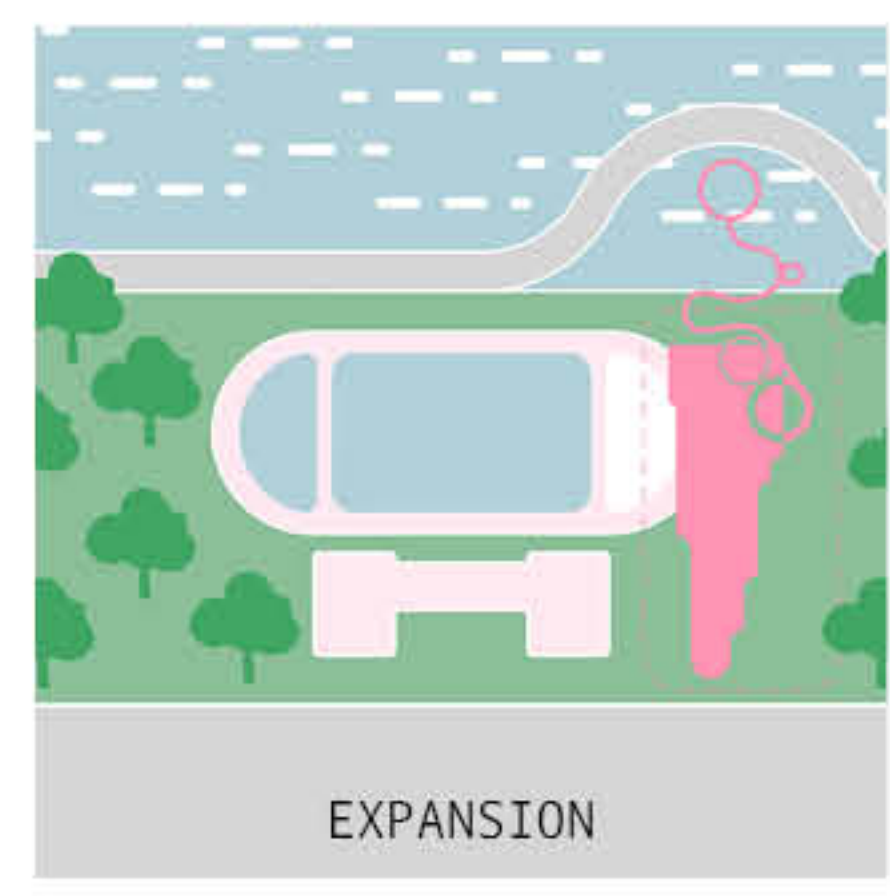
SITE CONTEXT



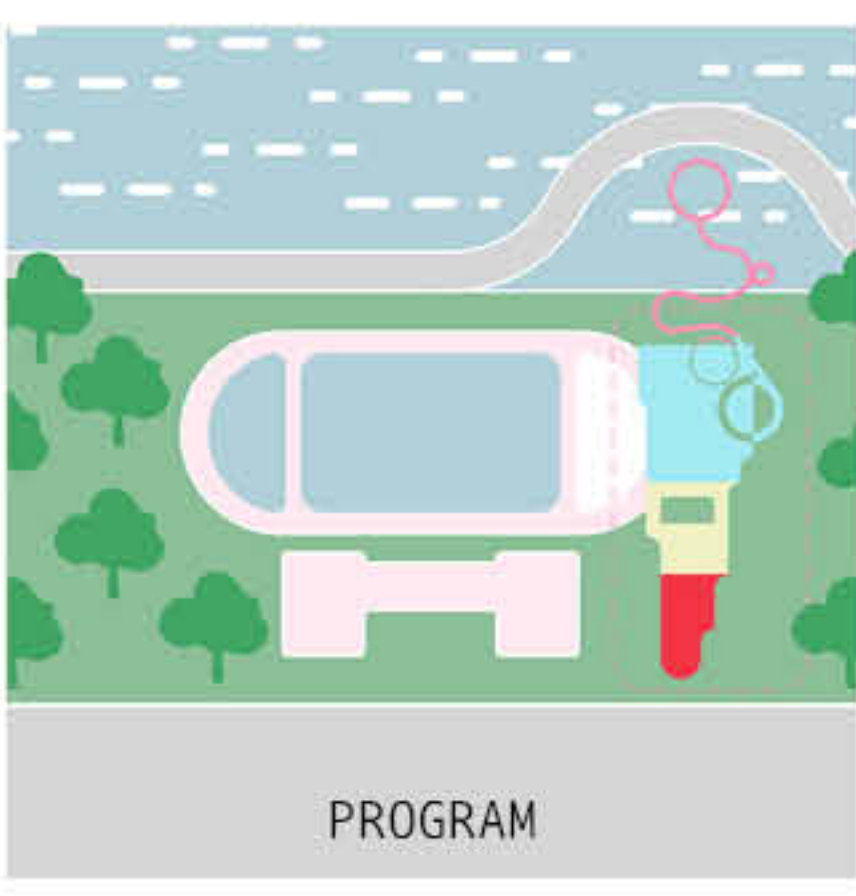
BUILDING AREA



MASSING



EXPANSION



PROGRAM



SITE & DIAGRAMS  
SITE MAP  
1-4000 & 1-2000

The diagrams illustrate the progression of program placement throughout the design process. Initially, massing involved subtractive considerations to align with the surrounding context. Subsequently, internal massing volumes were strategically positioned in accordance with the interior programs, aiming to establish a cohesive relationship between the interior and exterior spaces. Ultimately, the design culminates around the original exterior pool area, emphasizing it as the focal point of the overall program.

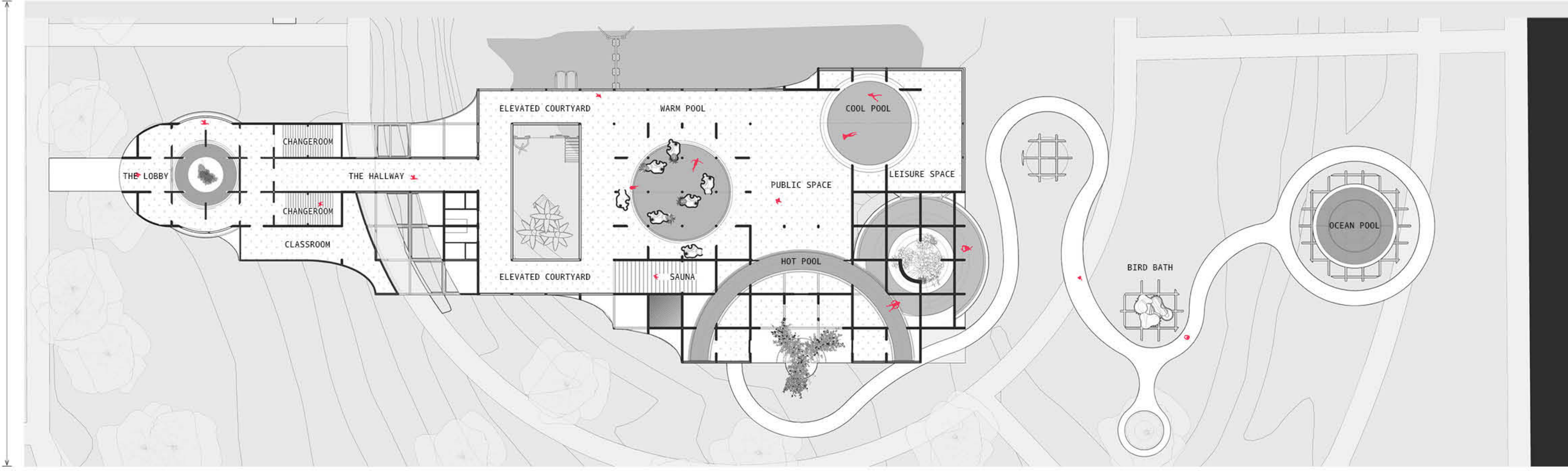
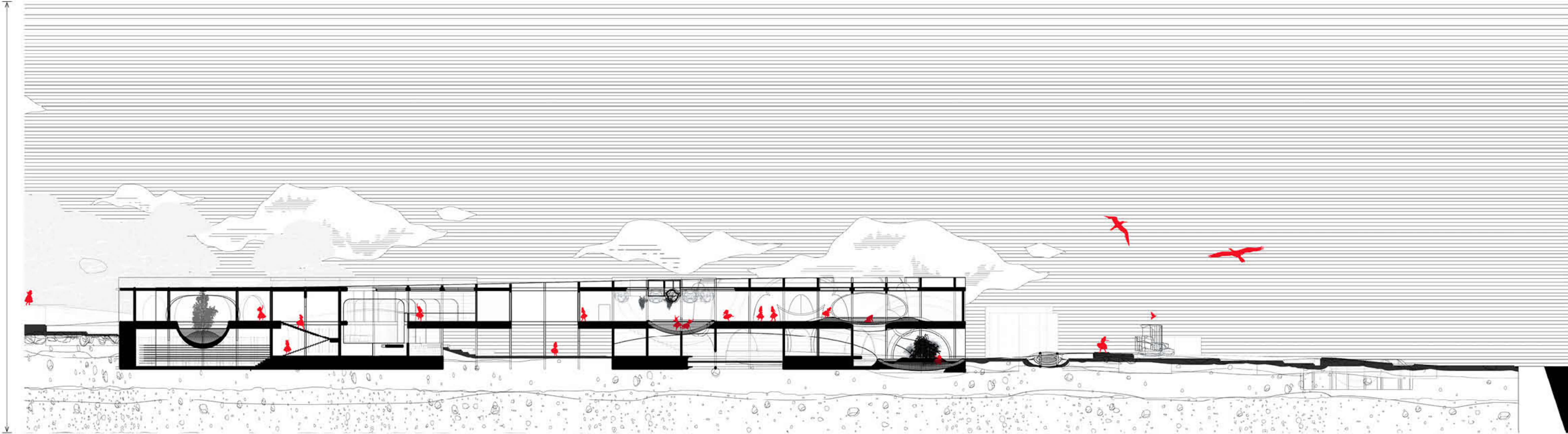




ASTORIA BATHHOUSE 201\_FA2021

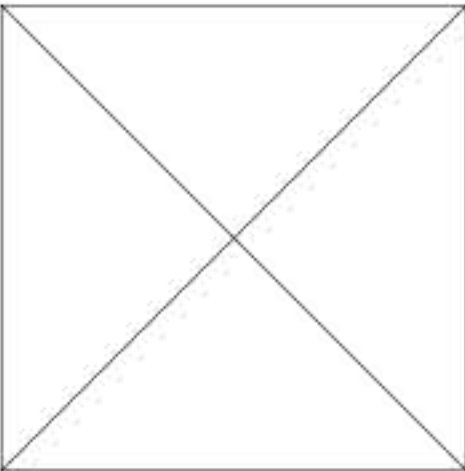
DRAWINGS

RHINO + AI + PS



PLAN & SECTION  
36" X 24"  
1/16"=1'-8"

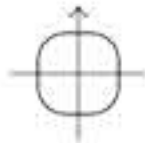




ASTORIA BATHHOUSE 201\_FA2021

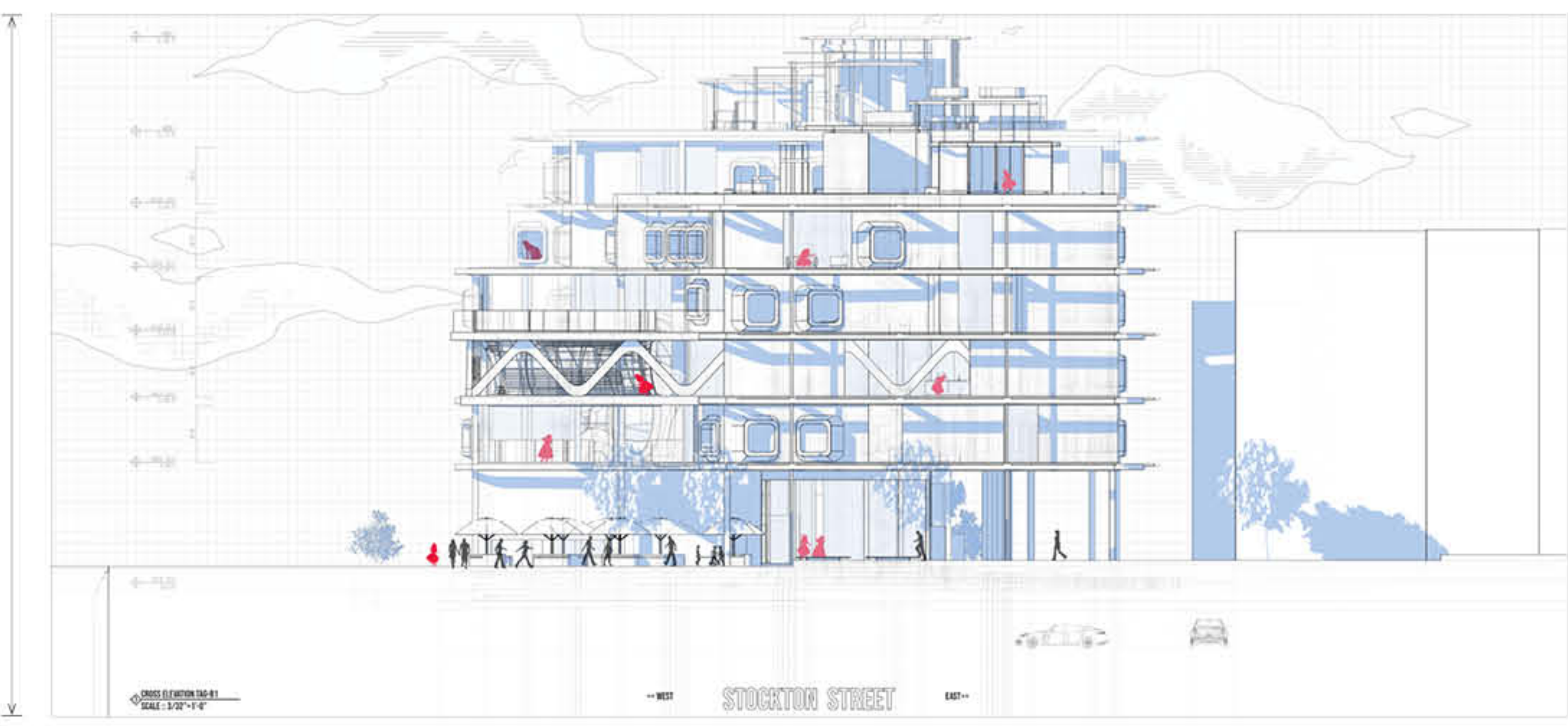
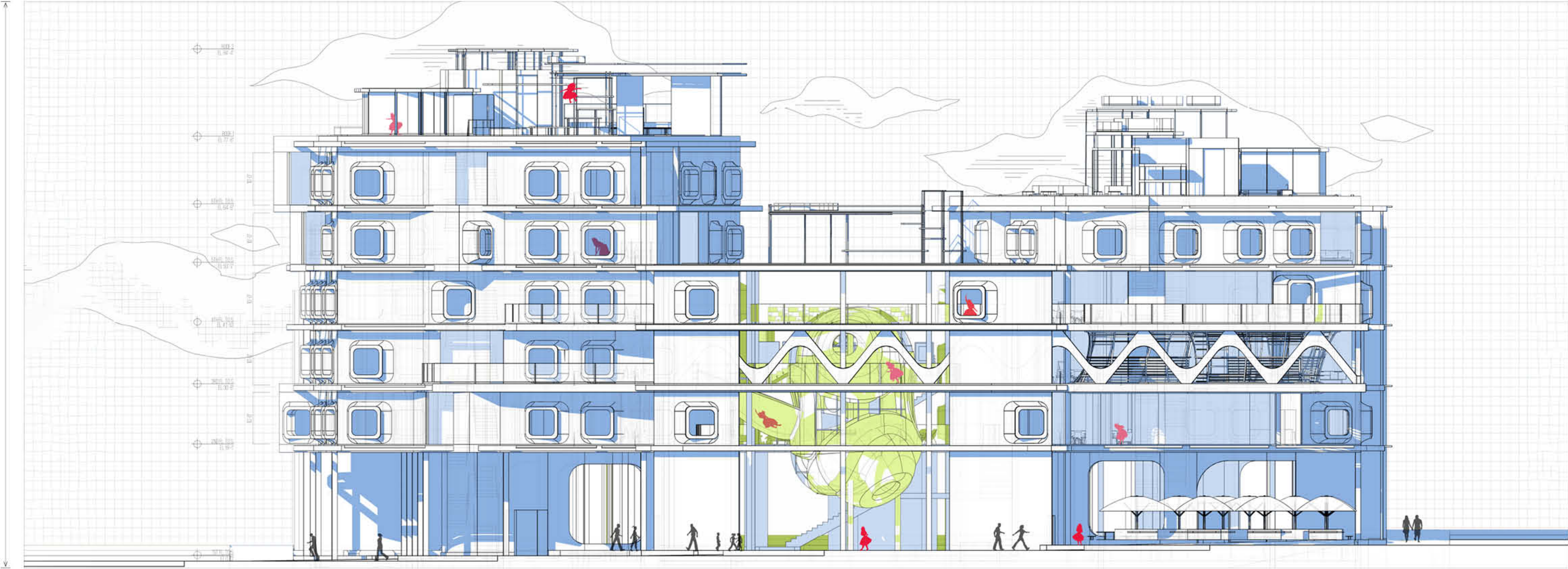
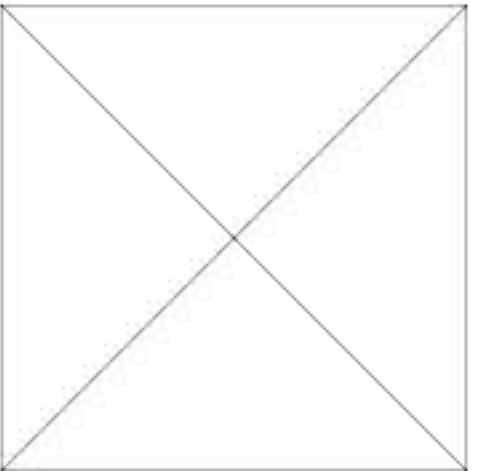
STYLE RENDERERS

RHINO + VRAY + PS



RENDERINGS  
2.2:1  
(~▽~)p >>





### MARCY'S PLAYTIME

Bedford-Stuyvesant, Brooklyn, New York  
Single Parent Housing / Social Housing  
Integrated Design 301 - Fall 2022 - Prof. Eva Perez De Vega

Marcy's Playtime redefines architectural innovation with its core mission to support single parents and provide entertainment that bridges generations. This visionary project is not just a building; it's a community-centric ecosystem that melds expansive program areas to encourage interactions among different species and age groups, spanning multiple floors. The architectural centerpiece, "The Symbiosis Void," situated in the building's southern corner, is a testament to the project's commitment to fostering a deep connection between humans, animals, and plants. This space is designed as a living, breathing entity where exchanges of energy and life occur, highlighting the importance of coexistence in urban environments.

"The Hubby" takes the concept of a play area to new heights—literally. This vertical space is ingeniously designed to engage children in physical activity while enabling parents to interact or work in close proximity, thanks to the surrounding floors that create

a unique work-play dynamic. Below this bustling area, a publicly accessible lobby becomes the stage for wildlife education and hands-on workshops in dye gardening, providing invaluable learning opportunities for the community. On the flip side, beneath The Nest, a partnership with the Brooklyn Flea Market transforms the space every Sunday into a hub of local commerce and social gathering. This initiative not only stimulates the local economy but also fosters a strong sense of community and belonging among residents.

Marcy's Playtime introduces a living typology catering to the needs of single parents and economically disadvantaged families, emphasizing adaptable living spaces through "dynamic walls." These walls allow for the easy reconfiguration of spaces from rooms to entire buildings, supporting evolving family dynamics. The project also incorporates green spaces and sustainable practices, such as rooftop gardens and water recycling systems, highlighting its commitment to environmental stewardship. Marcy's Playtime is not just a building but a community space that prioritizes flexibility, inclusivity, and well-being, aiming to create a more sustainable and family-friendly urban environment.





MARCY'S PLAYTIME 301\_FA2022

INTRODUCTION

RHINO + PS + AI

SOUTH ELEVATION  
EAST ELEVATION



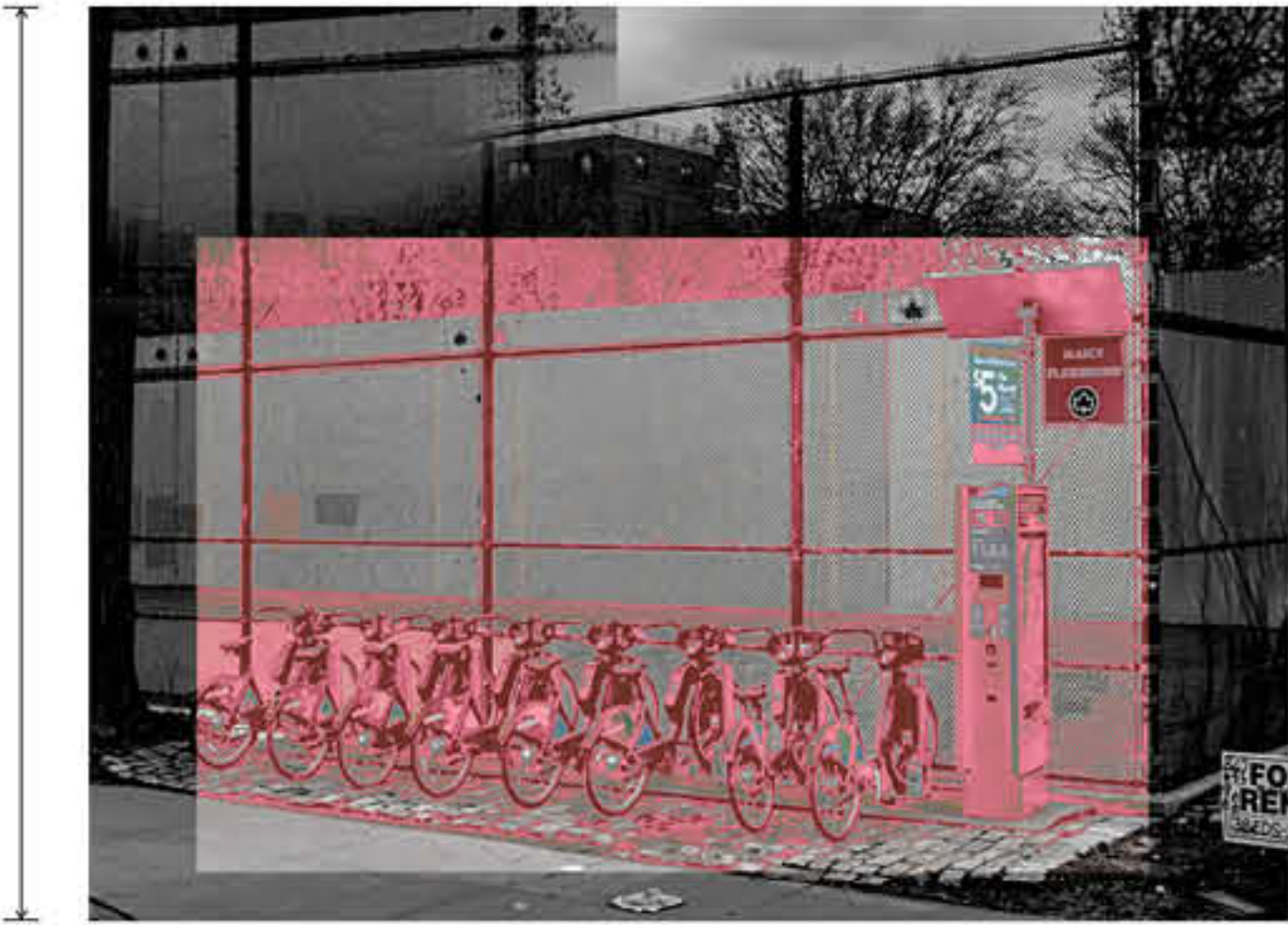
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2



3



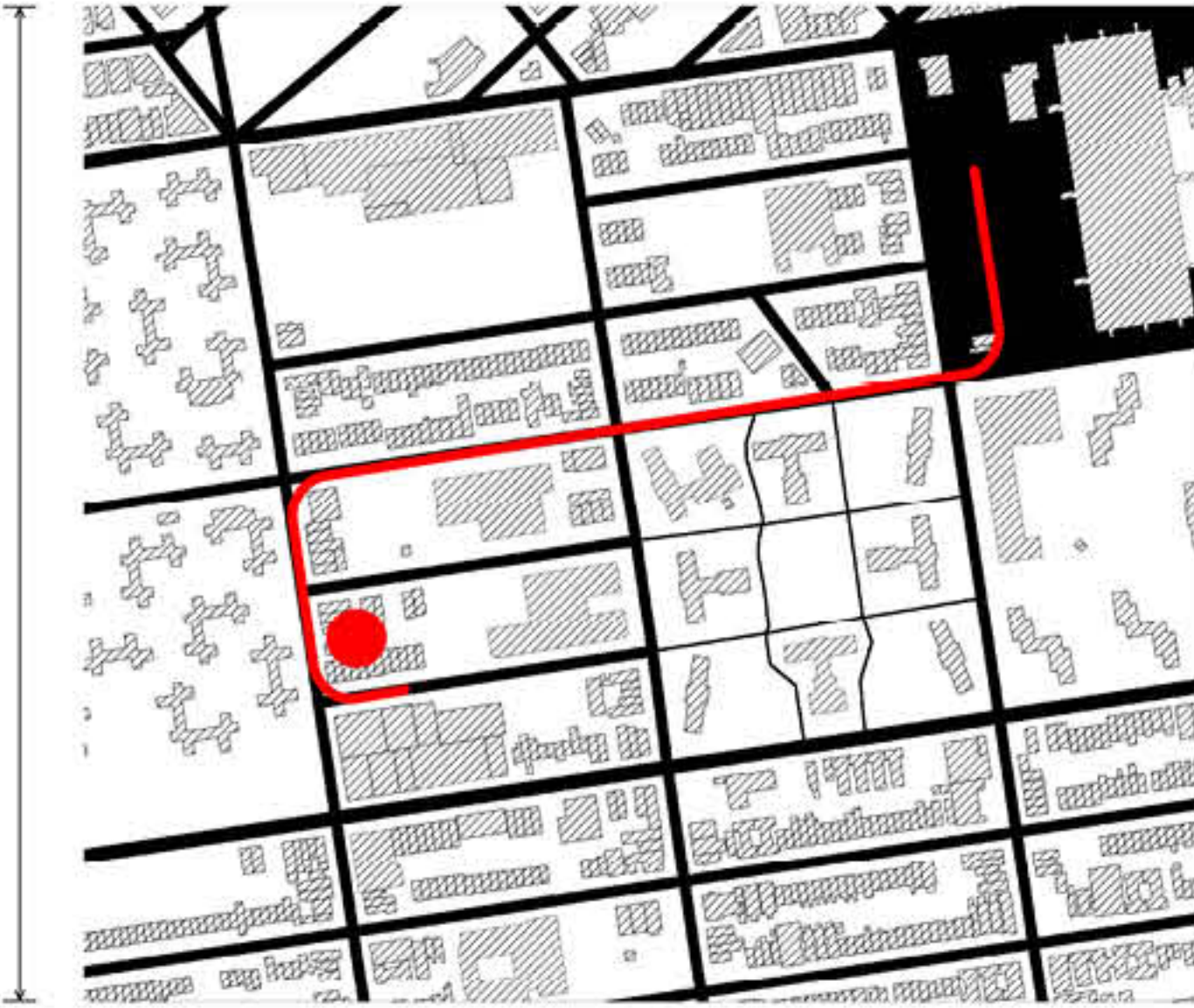
1



2



3



1



2

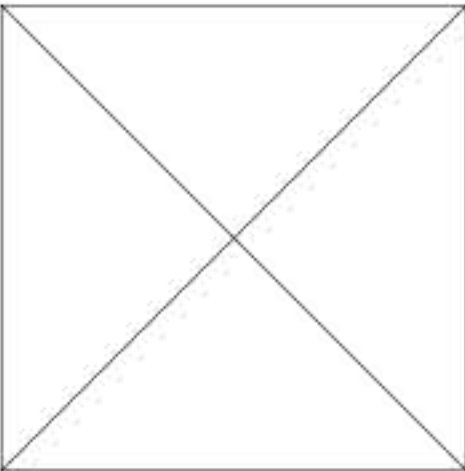


3

- 1.Close Proximity: Near Designated Location
- 2.Transport Corridor: Medium-distance Transit Connection
- 3.Metropolitan Outlook: Beyond Brooklyn's Immediate Metro Reach

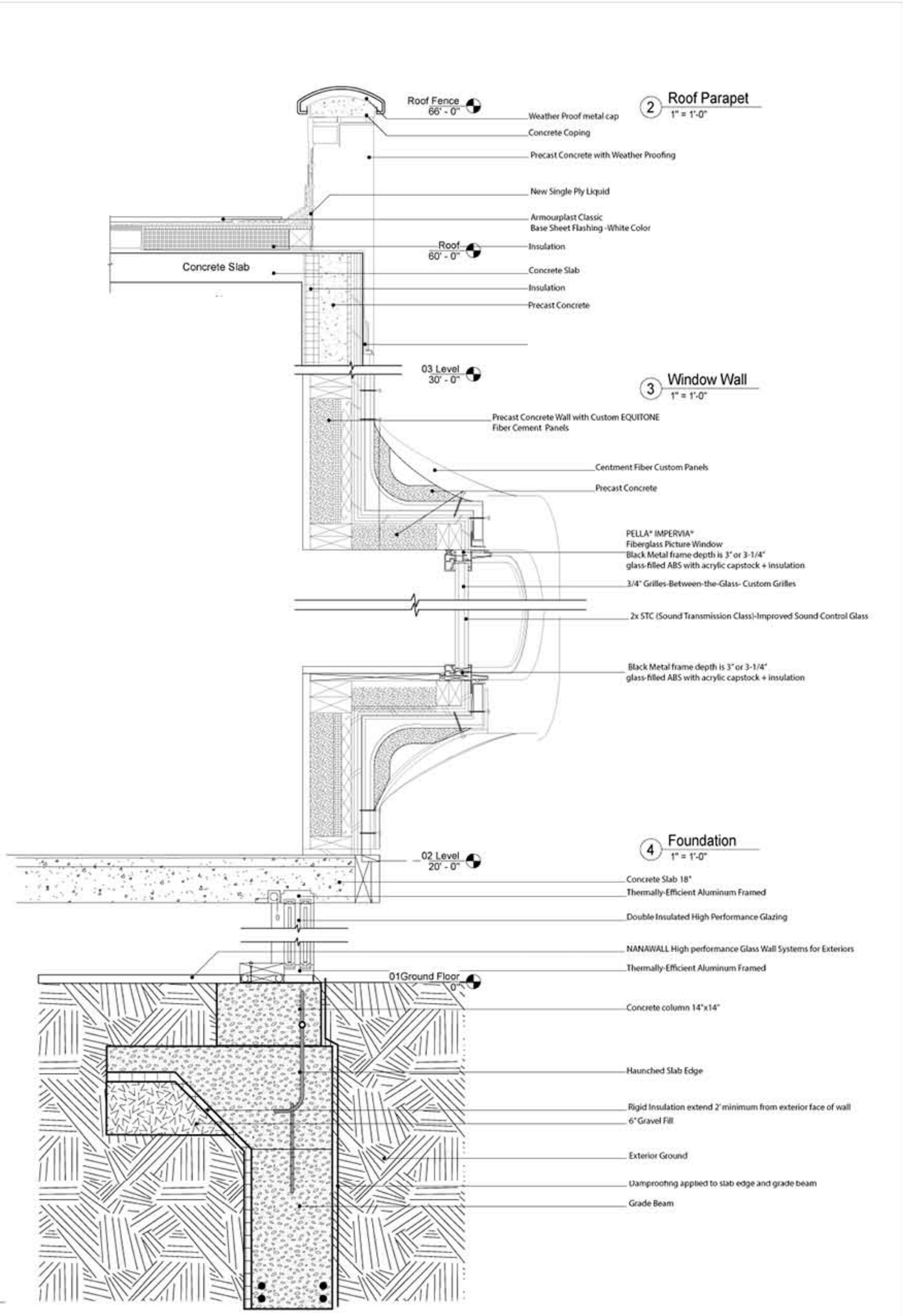
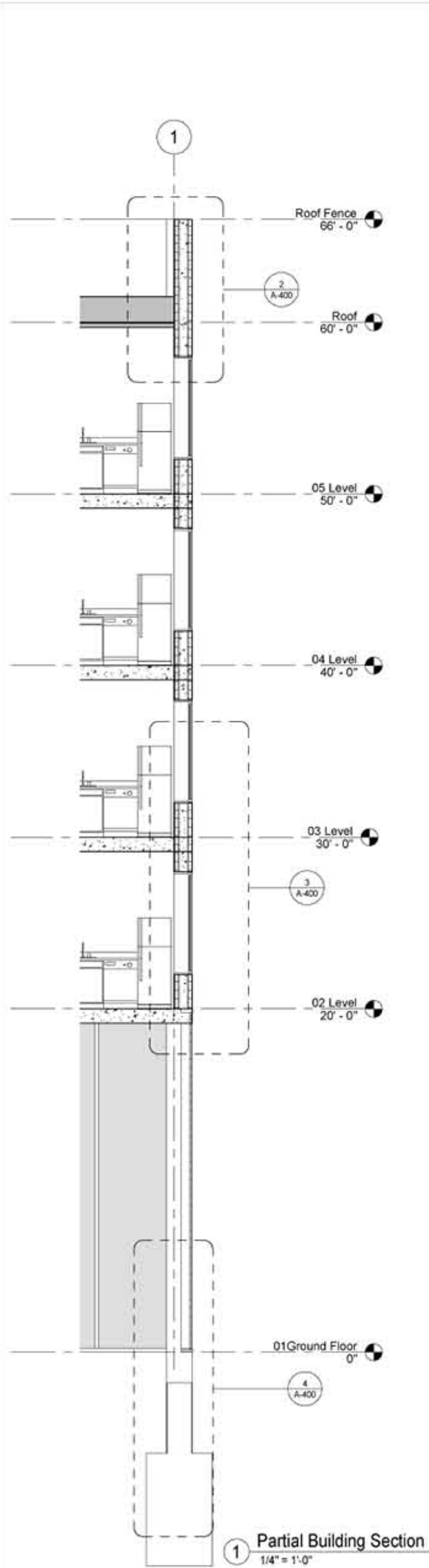
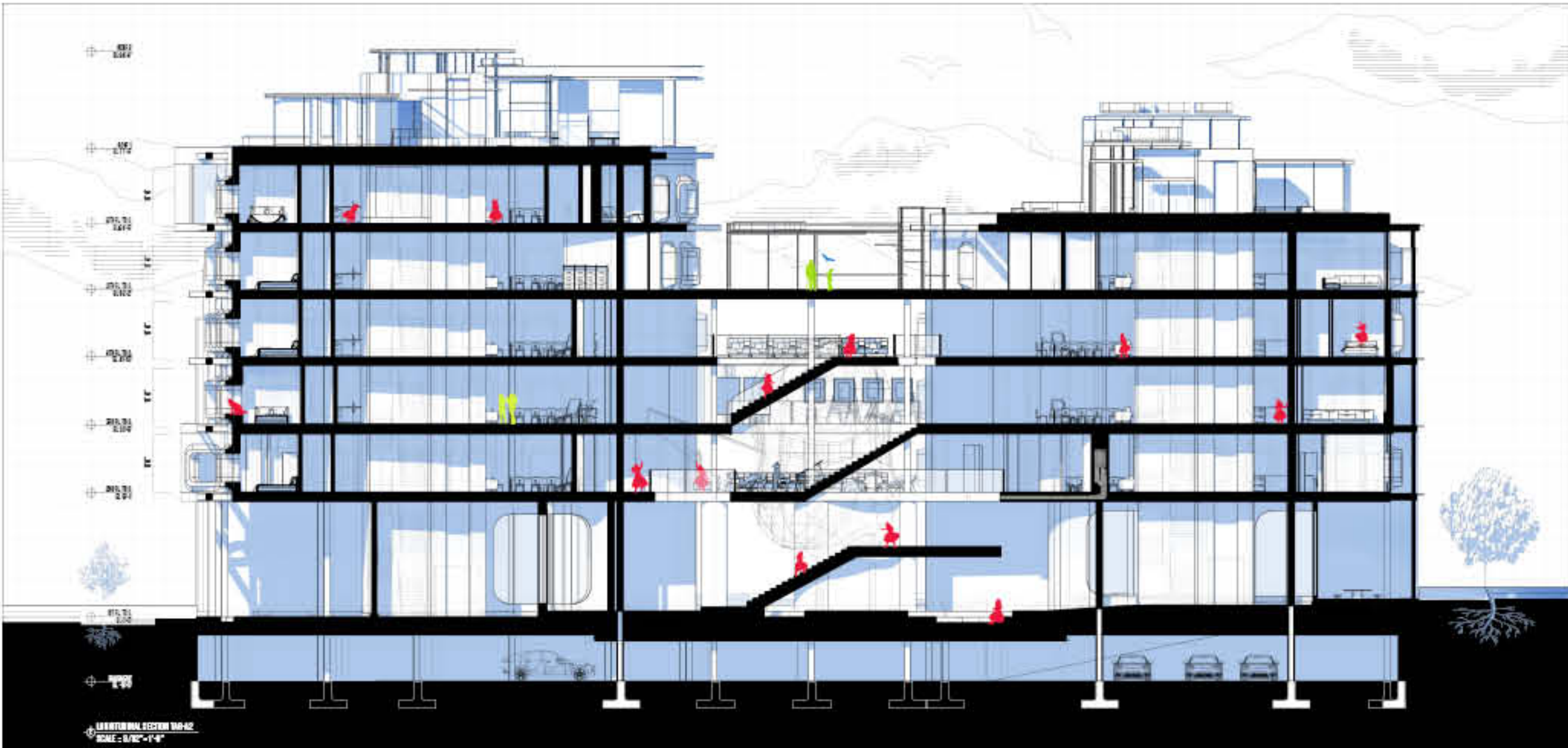
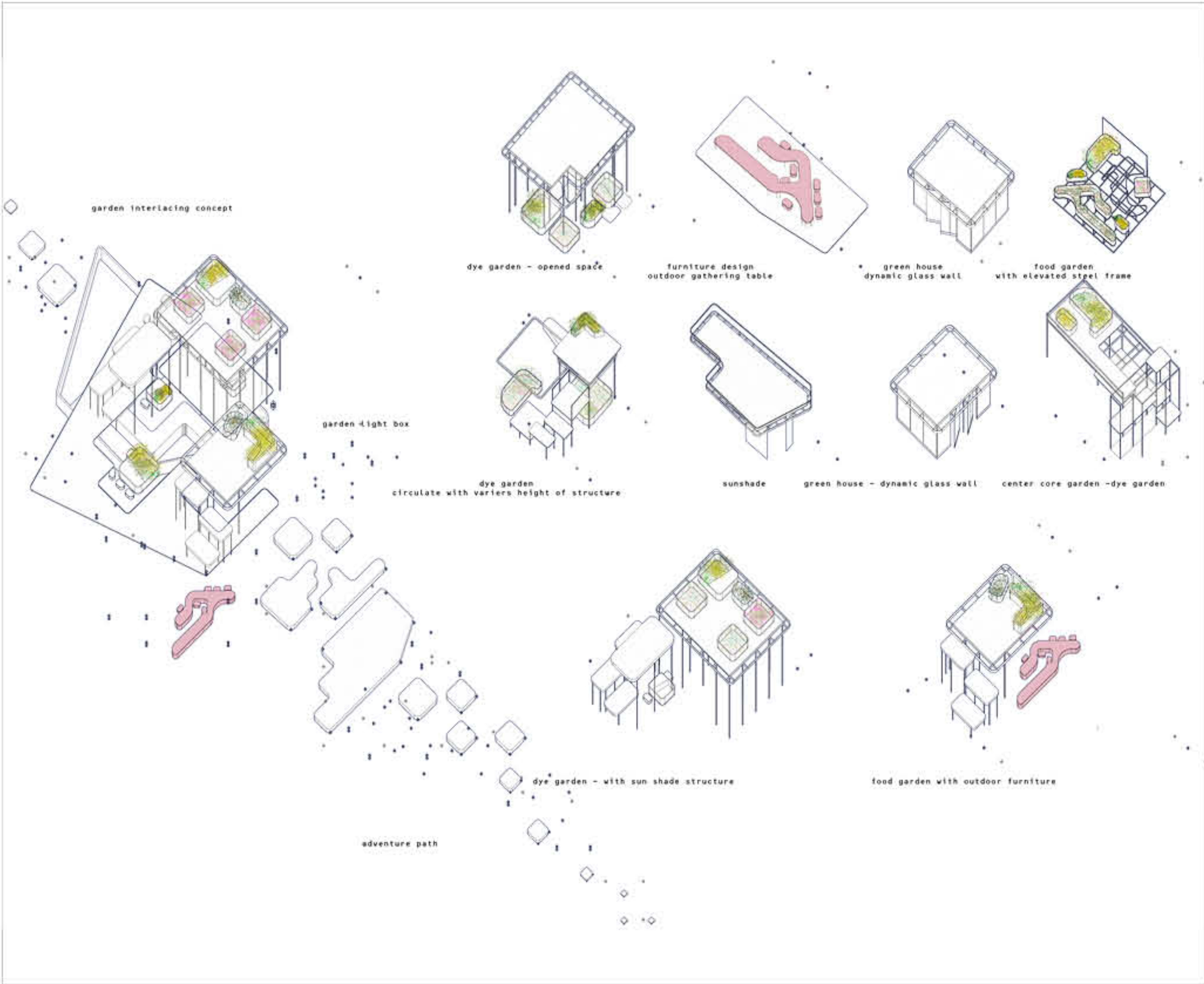
Single parents often have limited time available due to work commitments and childcare responsibilities. Lengthy commutes to work can eat into precious time that could otherwise be spent with children or on personal activities. Long commutes can lead to increased stress and fatigue for single parents, particularly if they are rushing to drop off children at school or daycare before heading to work. This can impact their ability to focus on work tasks and engage with their children effectively. Establishing a strong sense of community within residents can enhance safety for single-parent households. Neighbors looking out for each other and collaborating on initiatives such as neighborhood watch programs can provide additional layers of security.



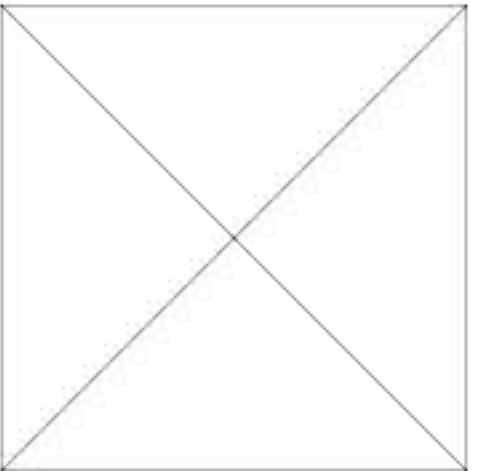


301\_FA2022  
MARCY'S PLAYTIME  
DRAWINGS  
RHINO + REVIT + AI

GARDEN MODULES  
SOUTH SECTION  
SECTION DETAILS

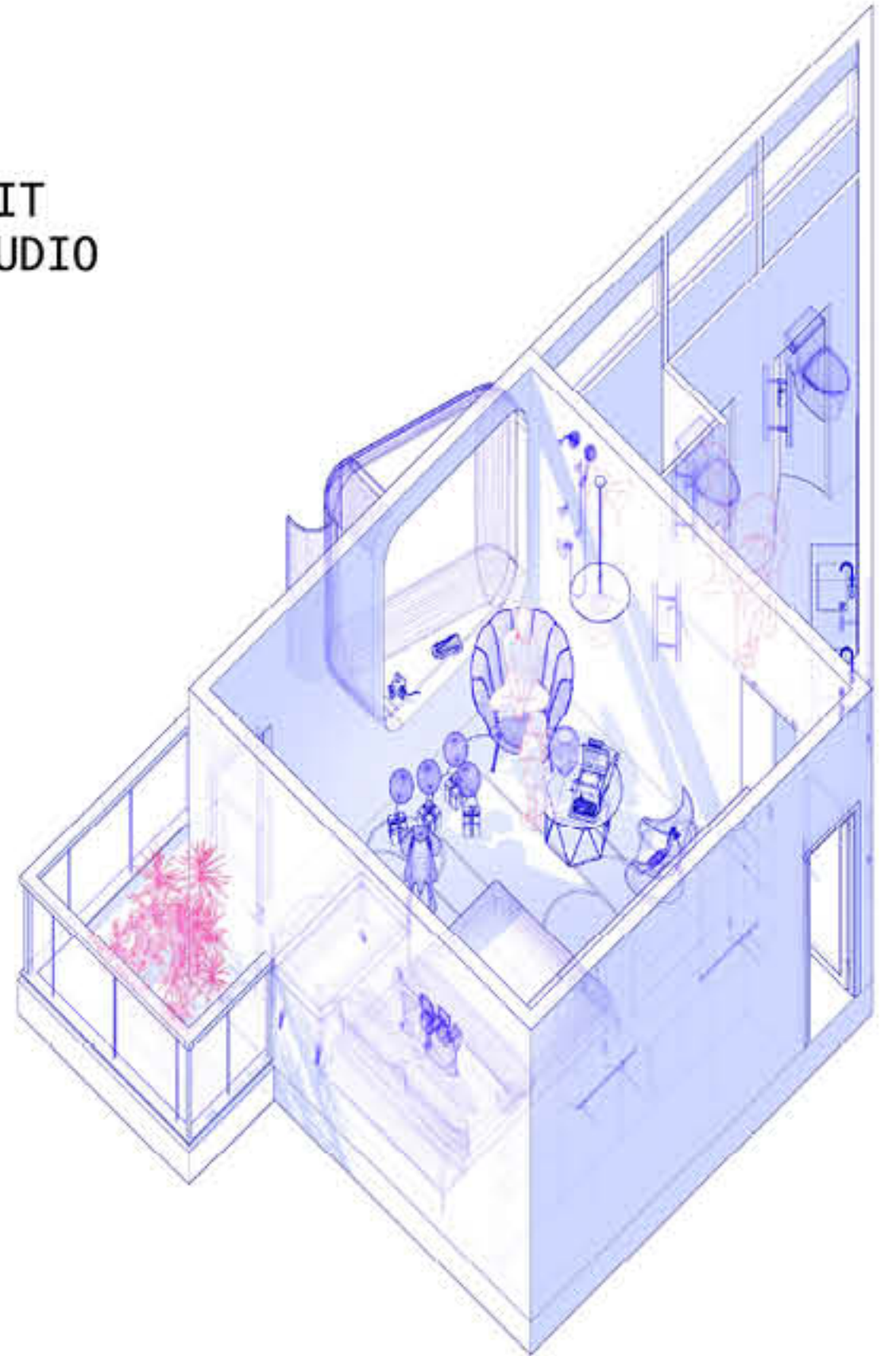




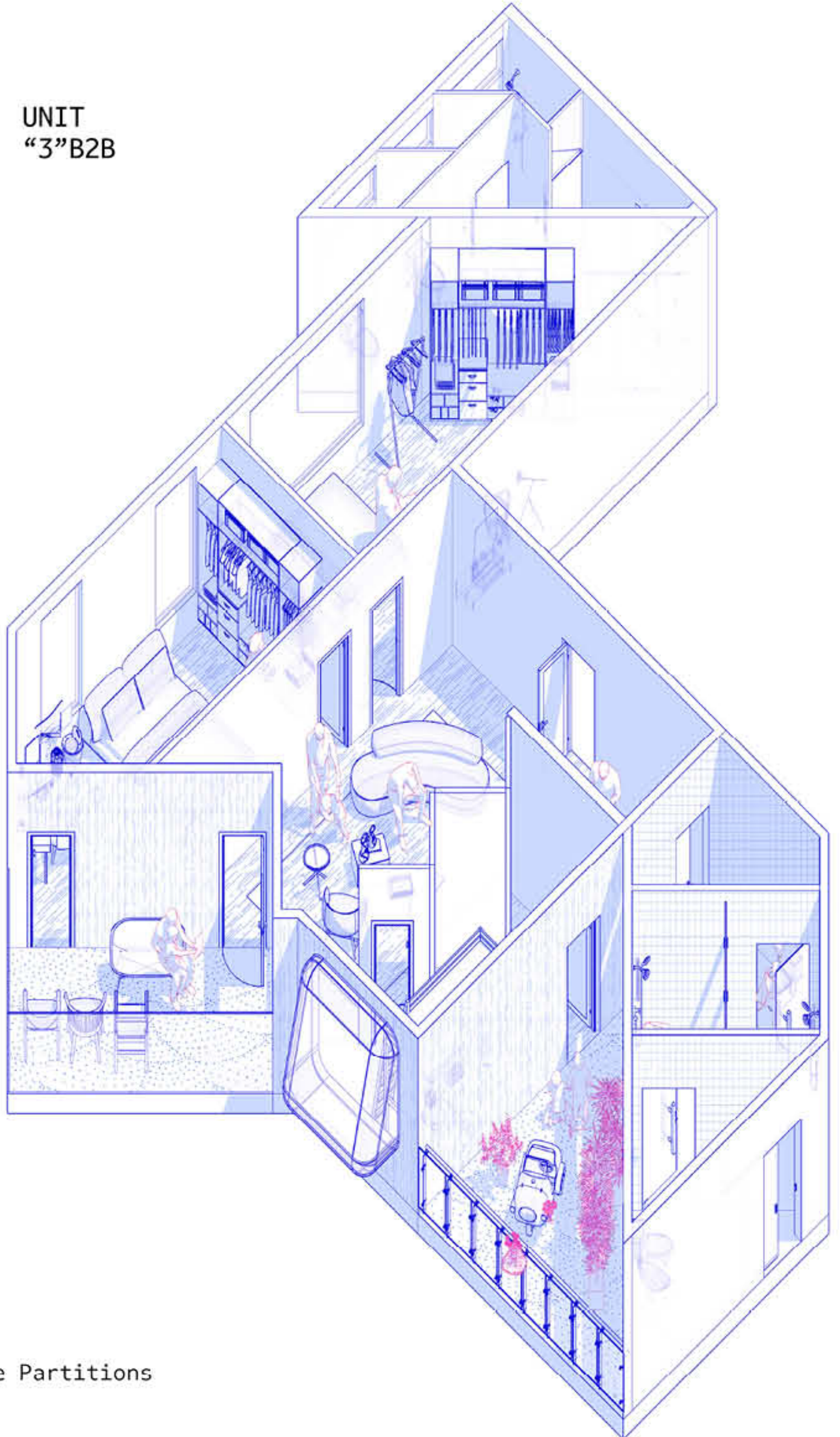


RHINO + PS + AI  
DRAWINGS  
MARCY'S PLAYTIME  
301\_FA2022

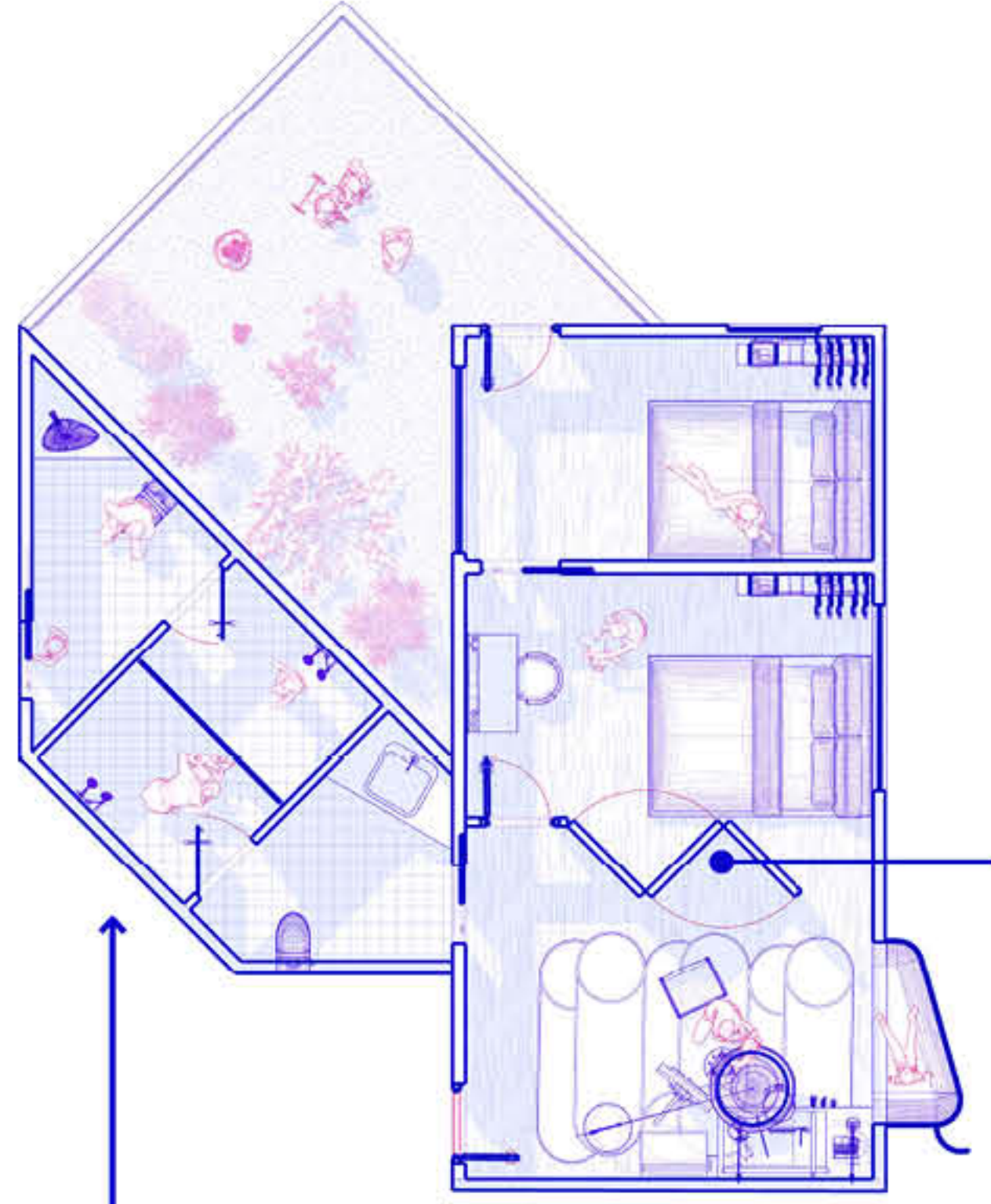
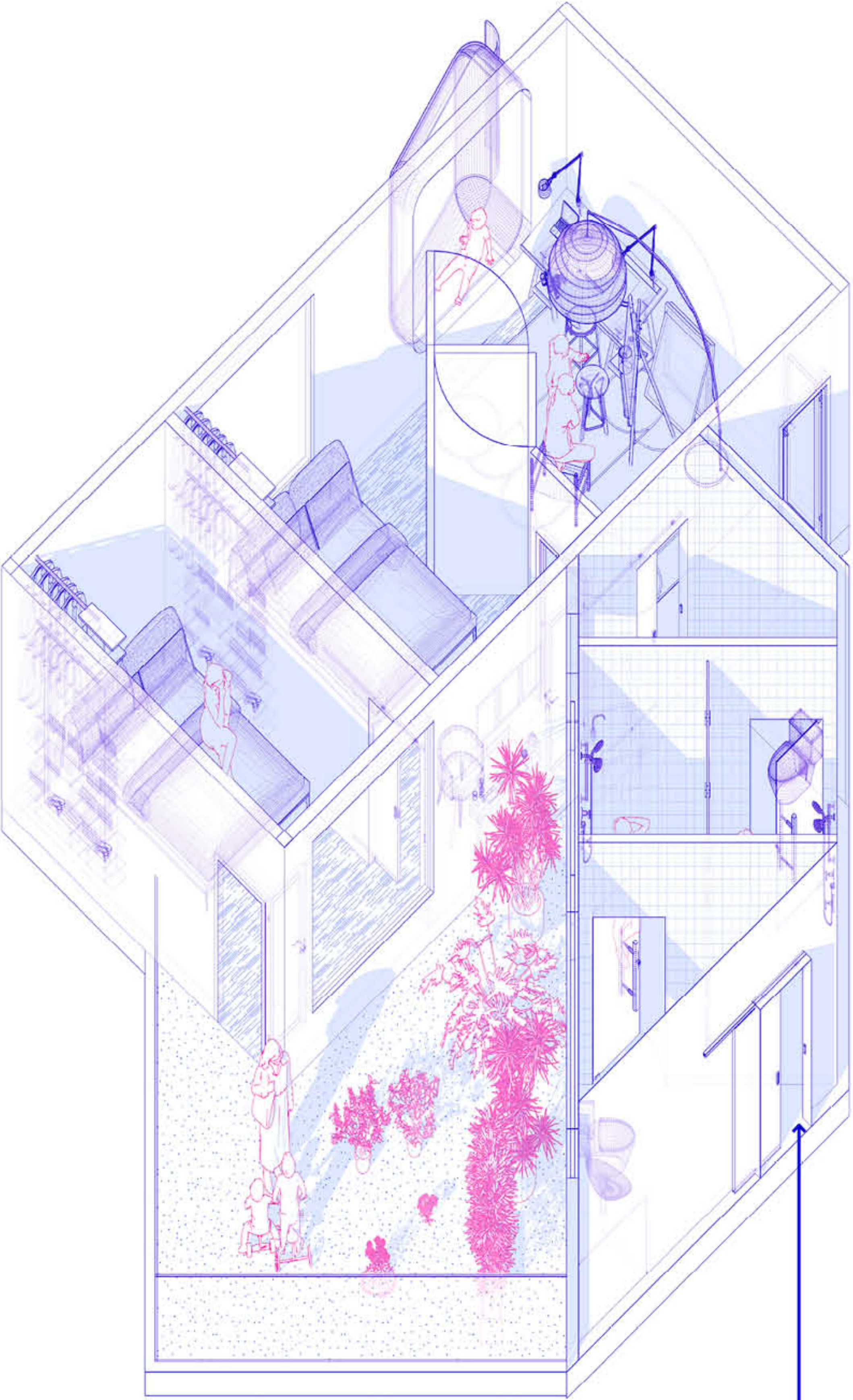
UNIT  
STUDIO



UNIT  
"3" B2B



UNIT  
"2" B1B



Operable Partitions

UNIT "2" B 1B

Neighborhood Unit

For Future Flexibility & Shared Spaces

Shared kitchens and washrooms spaces foster single family community bonds and reduce isolation. Residents can share appliances and amenities, reducing costs. The shared facilities optimize floor space and lower construction expenses. Resource sharing promotes eco-friendly practices. Operable partitions allow residents to easily adjust room configurations for different activities. They maximize the use of limited apartment space by enabling flexible layouts. Operable walls create private areas within the apartment as needed. Operable walls accommodate changing needs over time without major renovations.





TYPICAL  
FLOOR PLAN



SCALE

PUBLIC ACCESSIBLE

SITE — GENERAL PUBLIC — FREE

THE COMPLEX — GROUND PUBLIC — PUBLIC

SUITE — ALL RESIDENTS — NON-PUBLIC

FLOOR — COLLECTIVE — SHARED

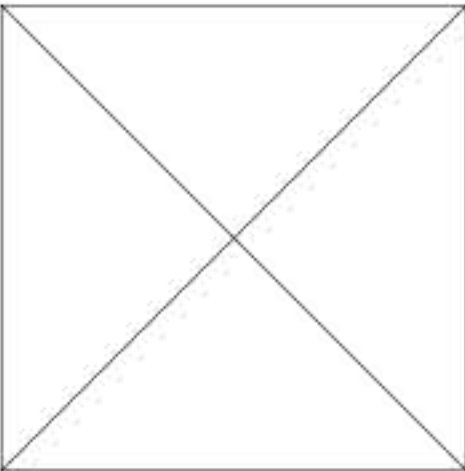
UNIT — FAMILY — PRIVATE

ROOM — INDIVIDUAL — EXCLUSIVE

RESIDENTIAL ACCESSIBLE

- PROGRAM:
- 1. HUBBY
  - 2. MUSIC LOUNGE
  - 3. DYNAMIC WALL
  - 4. SHARED KITCHEN
  - 5. ARCADE
  - 6. EGRESS & ELEVATOR
  - 7. LOUNGE
  - 8. PARENTS WORKING SPACE
  - 9. PV PANEL





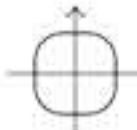
401\_SU2023

RETI CENTER

INTRODUCTION

RHINO + VRAY

PLANTER DESIGN  
FLOATING GARDEN



### WATER'S EDGE : RETI CENTER

Redhook, Gowanus Canal, Brooklyn, New York  
Upcycle Design-Build for Non-Profit Organization  
Advance Design Studio 401 - Summer 2023 - Stephen Slaughter

In partnership with the Brooklyn-based non-profit RETI in the Red Hook Community, our two-month summer studio was dedicated to developing resilient design strategies to address climate challenges. We aimed to produce speculative and practical proposals for the local community, emphasizing sustainable development through collaborative research and design.

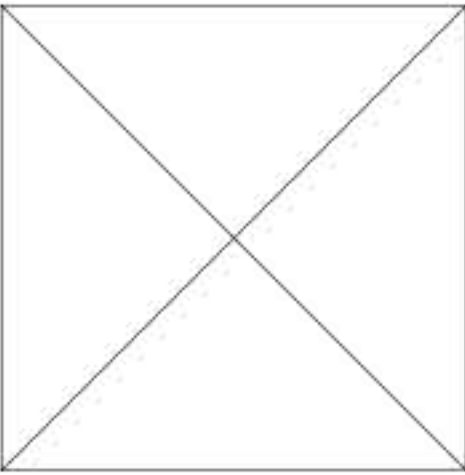
This studio project not only highlights my architectural contributions but also underscores my roles as the studio's graphic designer and photographer. As the graphic designer, I was responsible for creating the graphic standards and compiling the final PDF booklet that encompasses all project documentation. My role was pivotal in ensuring cohesive visual communication and branding throughout the project materials. As the photographer, I meticulously documented the studio's journey, capturing everything from classroom activities and shop time to on-site work, providing



a comprehensive visual record of our process. As an architecture student, my contributions spanned various scales of design and implementation, from extra-small to extra-large. Working alongside RETI's graphic designer, I developed inking stencils with unique patterns, enhancing brand visibility on RETI-produced objects. A significant portion of my effort was devoted to designing and constructing stools from wooden pallets provided by RETI, a medium-scale project that underwent several iterations to reach its final form. Additionally, I played a pivotal role in the conceptual design of a green wall, research on floating concrete, and the creation of a water-floating art garden.

The collaborative studio with RETI in Red Hook has been a multifaceted journey that blended innovative design with practical environmental solutions. My multi-roles as an architect, graphic designer and photographer allowed me to capture and shape the narrative of our project, contributing to both its functionality and visual identity. Through our collective efforts, we addressed critical challenges with creative resilience, leaving an impact on the community and enriching our understanding of sustainable architectural practices.





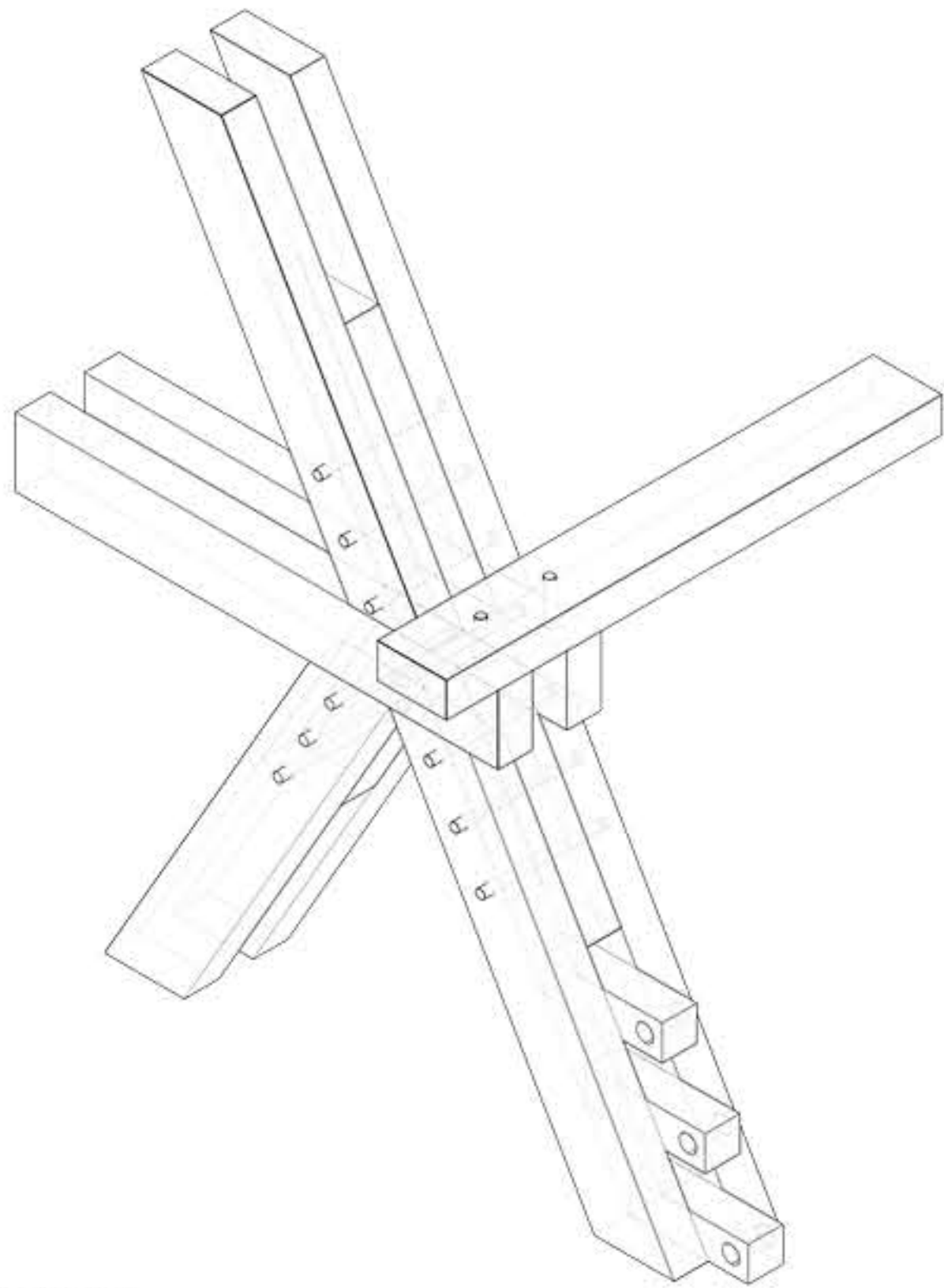
401\_SU2023

RETI CENTER

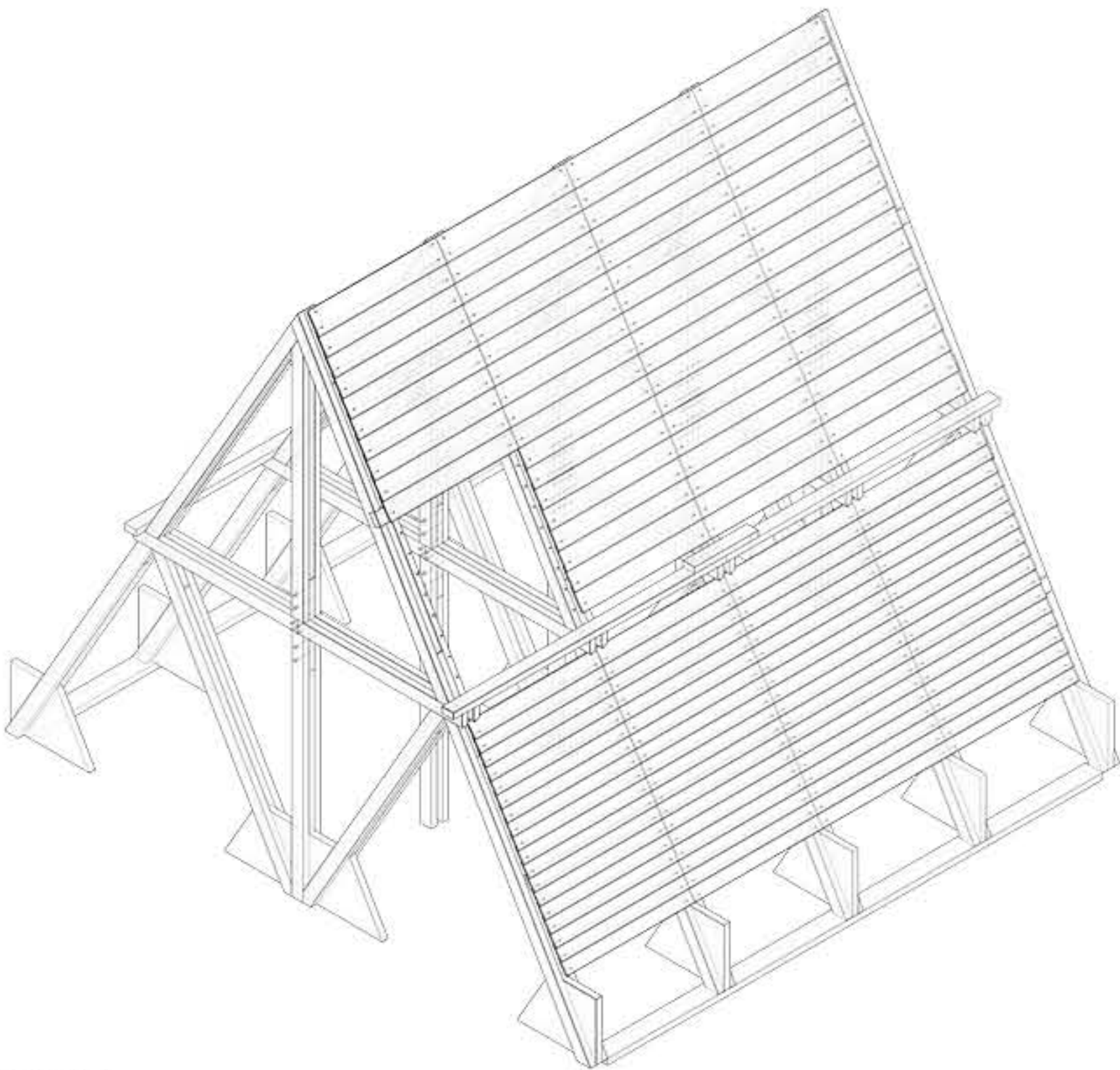
WOOD - JOINT

RHINO + AI + WOODSHOP

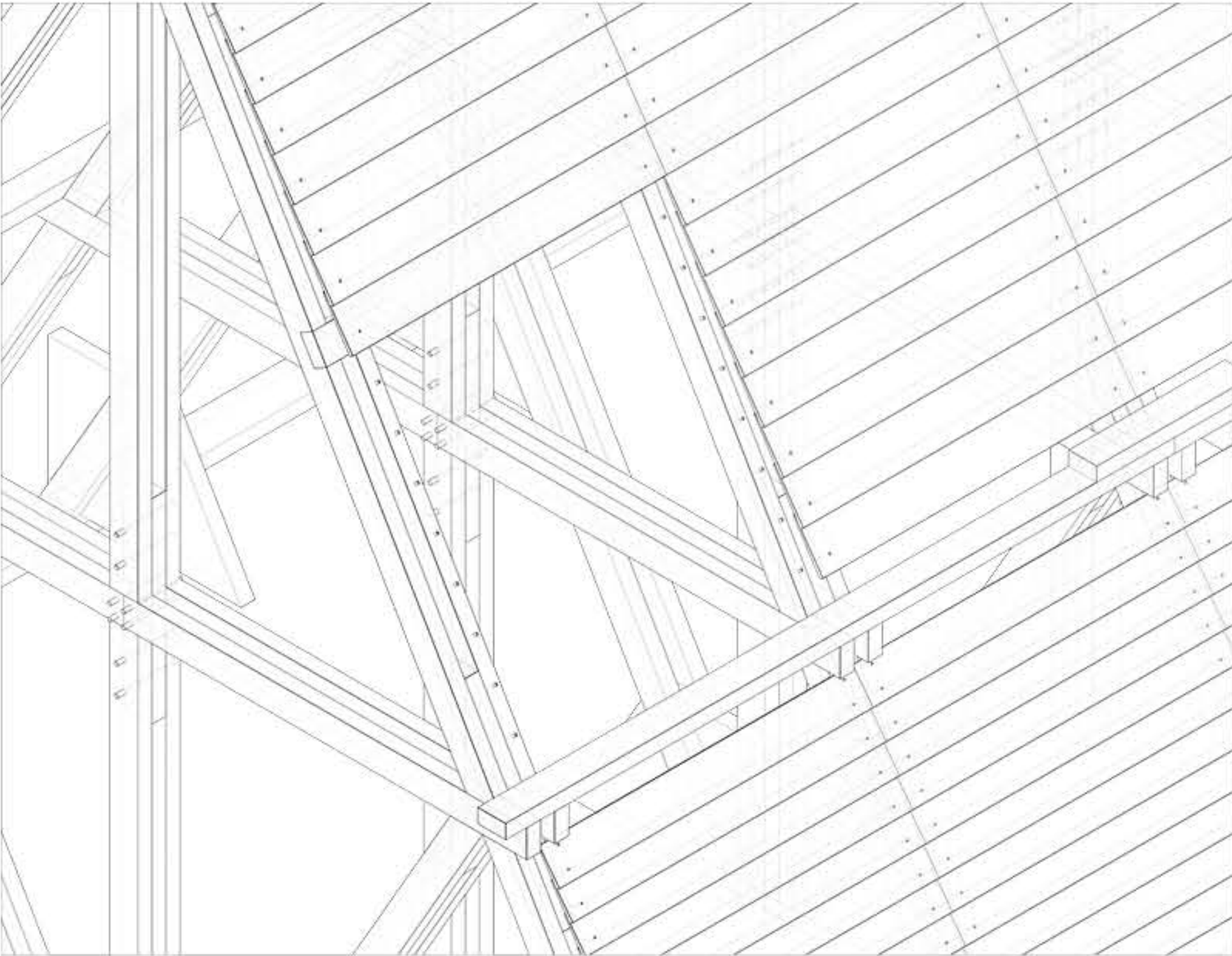
INITIAL COASTAL  
CONSTRUCTION  
IDEAS



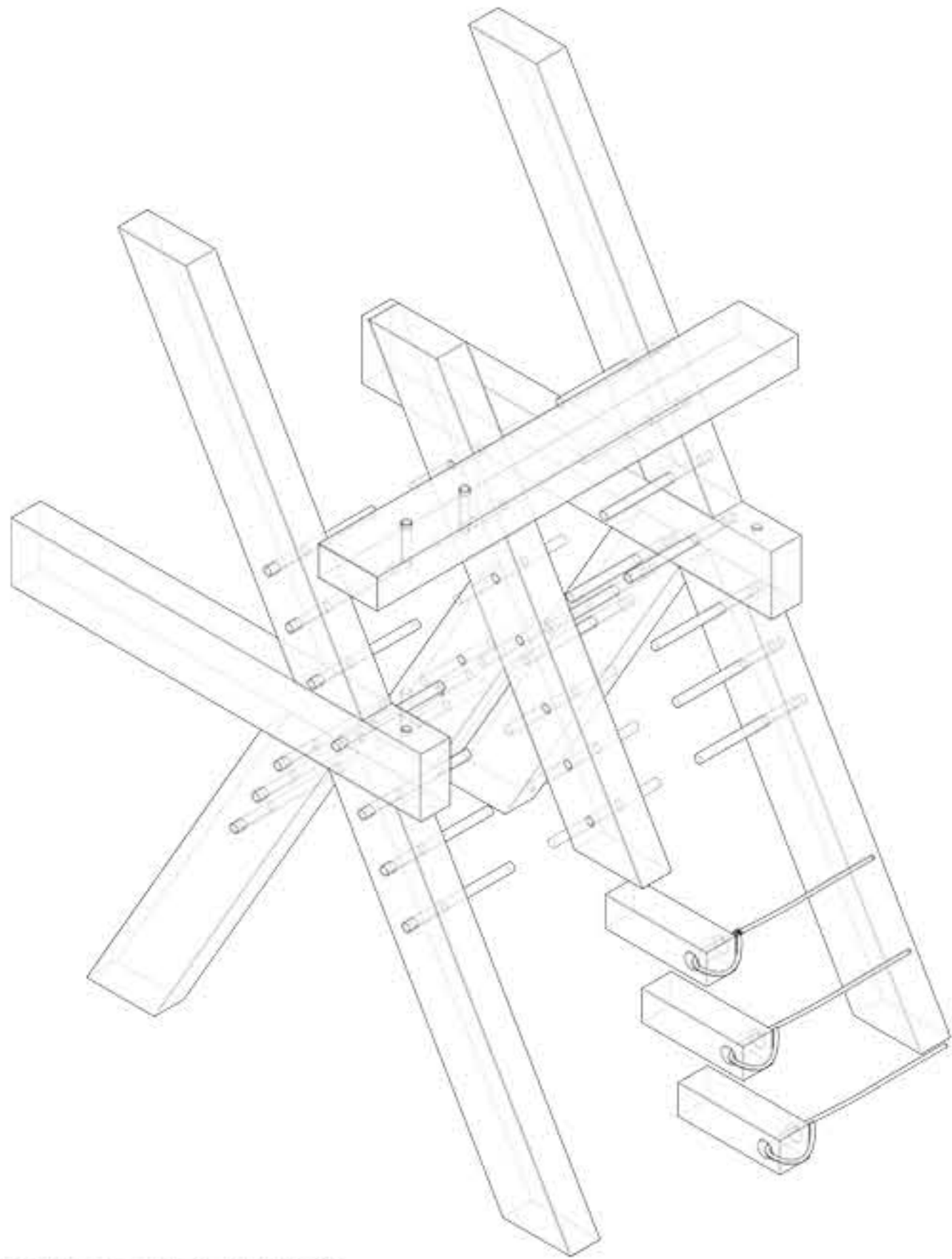
Joint Detail



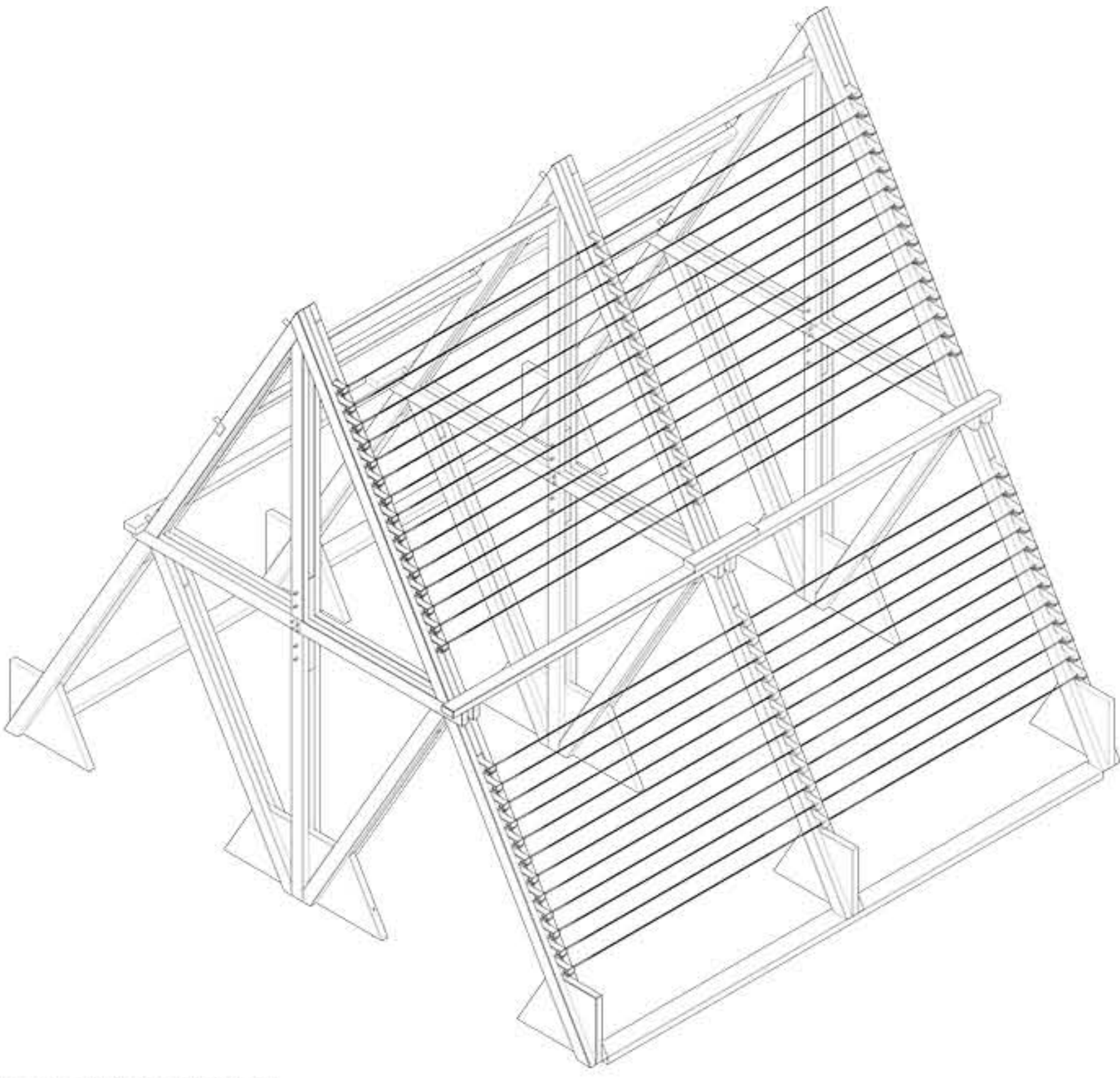
Bevel Sliding Facade



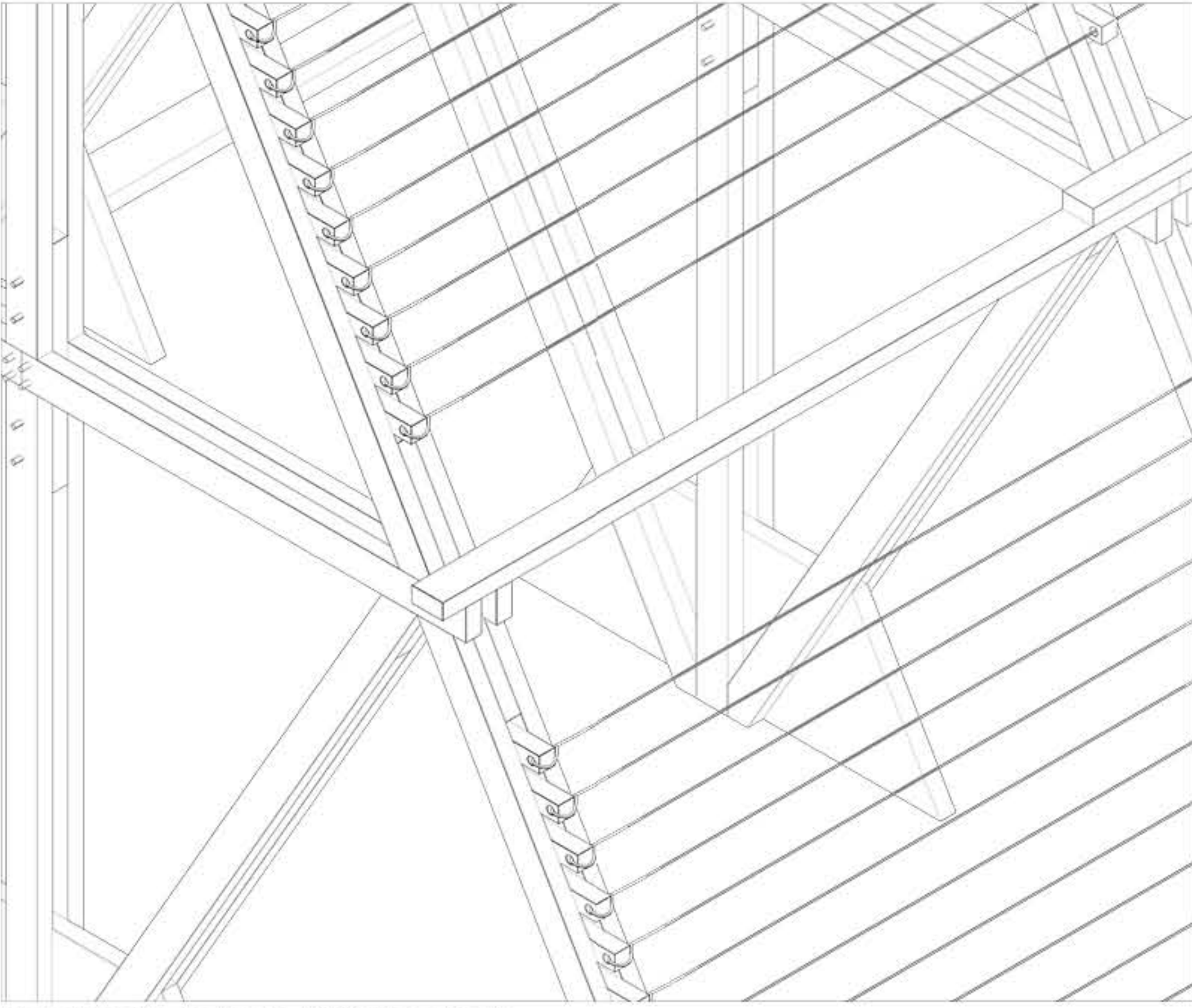
Bevel Sliding Facade Zoom-in



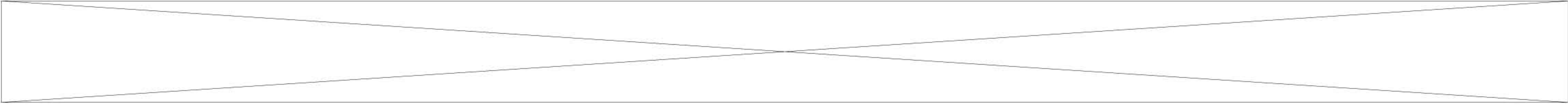
Exploded Joint Detail



Rope Facade [For Kelp Drying]



Rope Facade [For Kelp Drying] Zoom-in







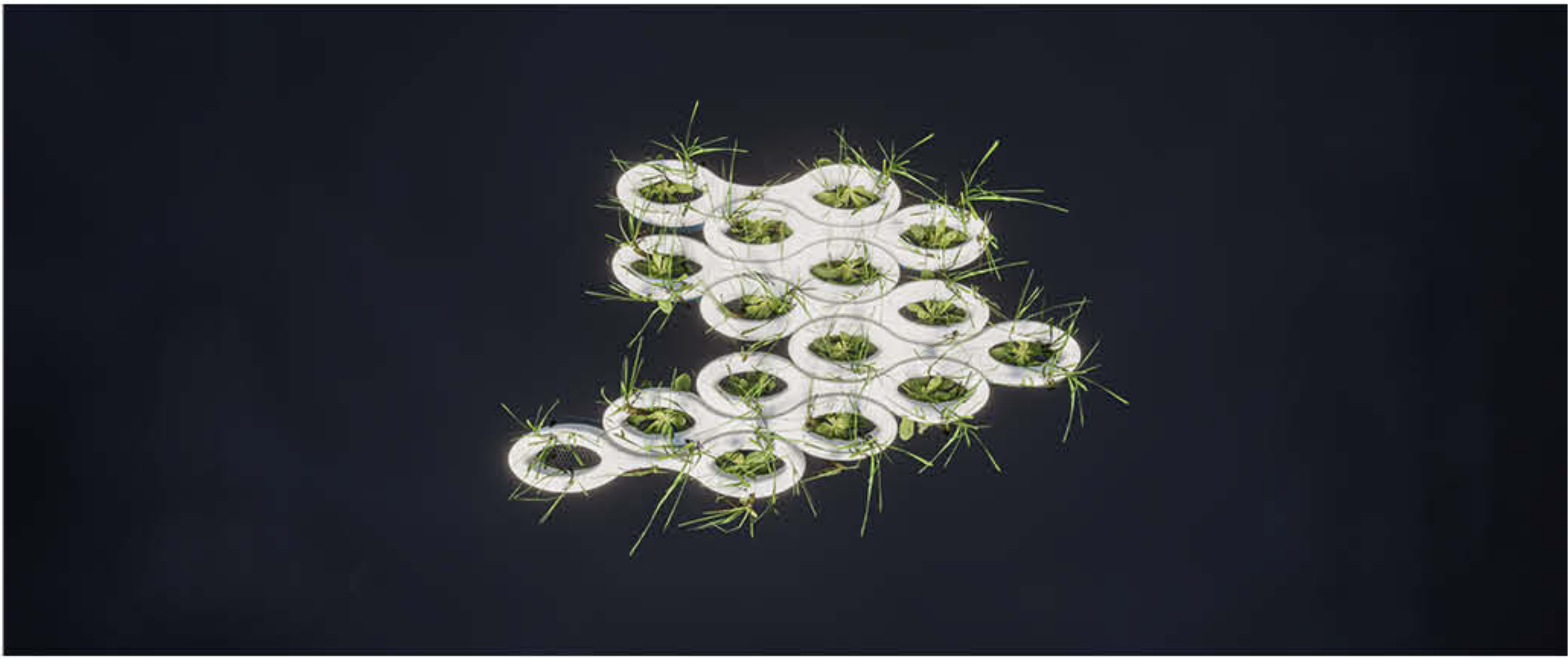
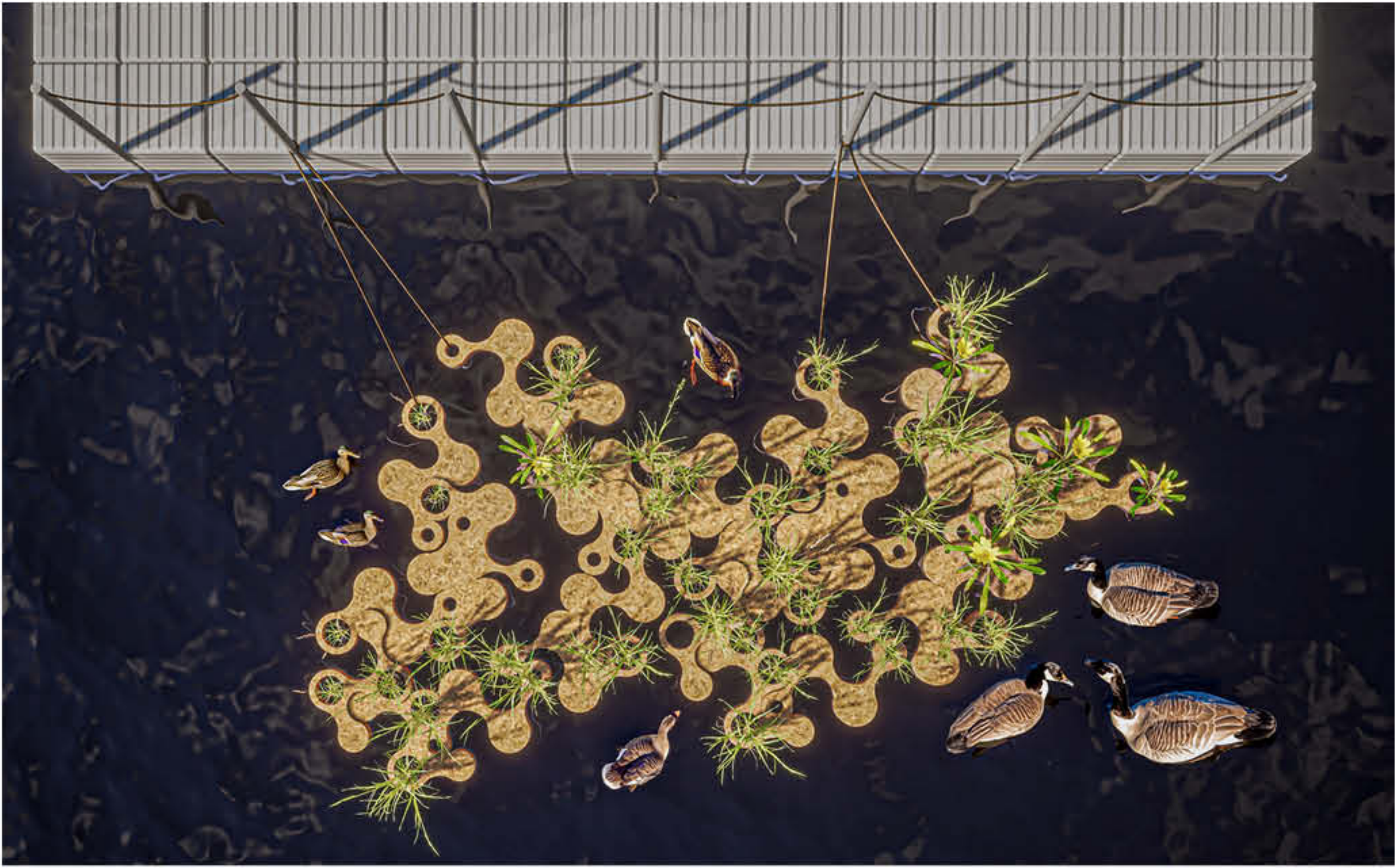
302\_SP2023

PROJECT TITLE

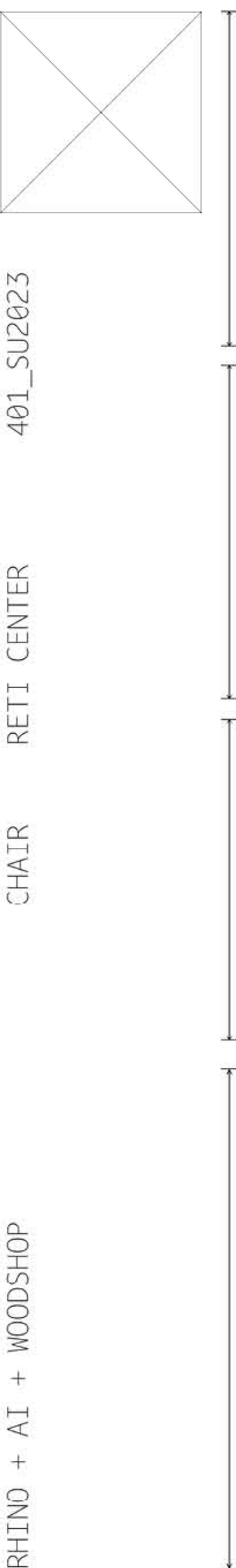
RENDERING

TOOLS USED

FLOATING PLANTERS  
GROUND PLANTERS





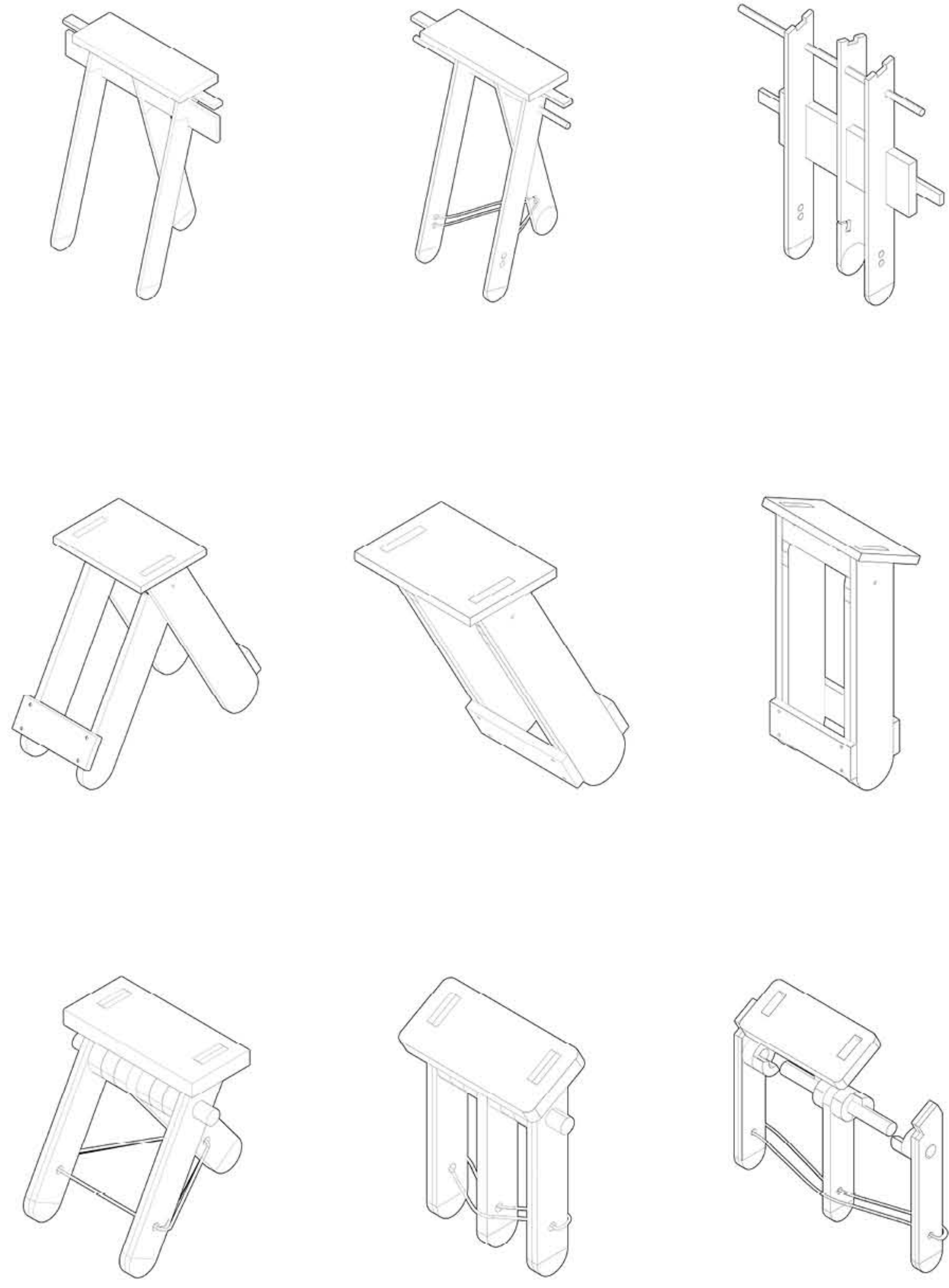


401\_SU2023

RETI CENTER

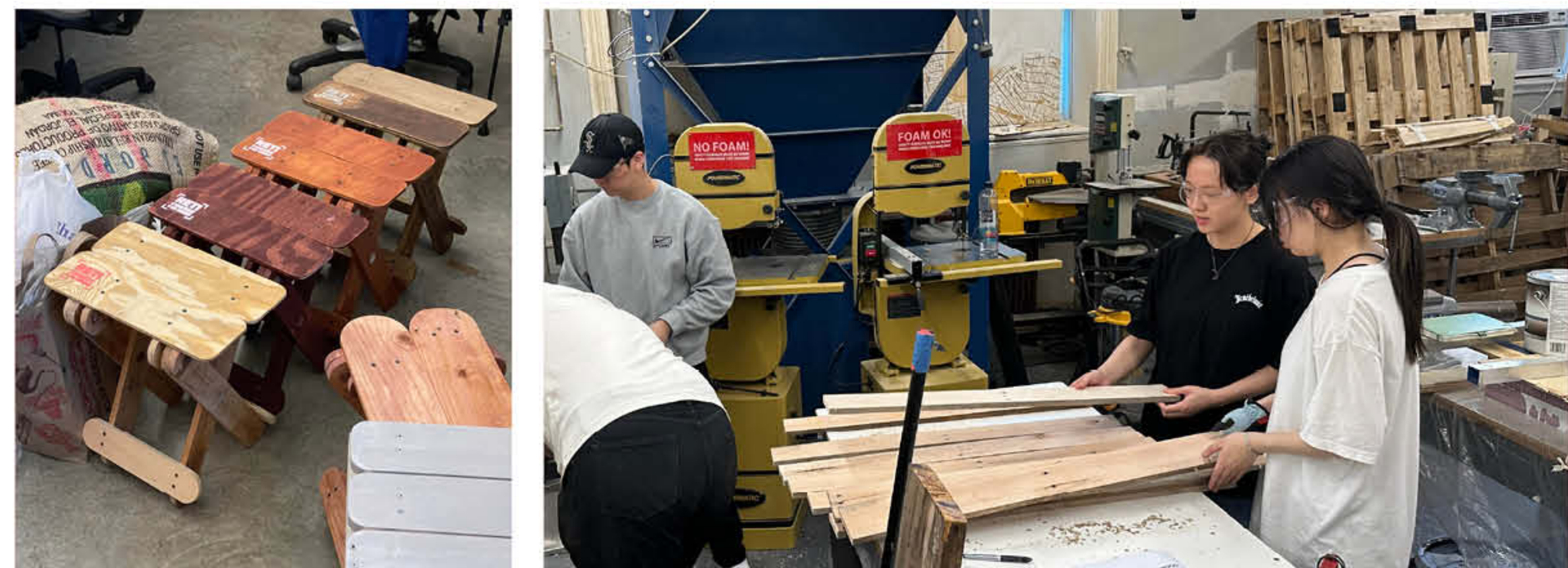
CHAIR

RHINO + AI + WOODSHOP



DIGITAL PROTOTYPES

ITERATIONS  
OF THE  
CHAIR DESIGN



PHYSICAL PROTOTYPES  
Sustainably Crafted Seating: Handmade at Pratt Institute's Woodshop using Repurposed Wood and Pallets





401\_SU2023

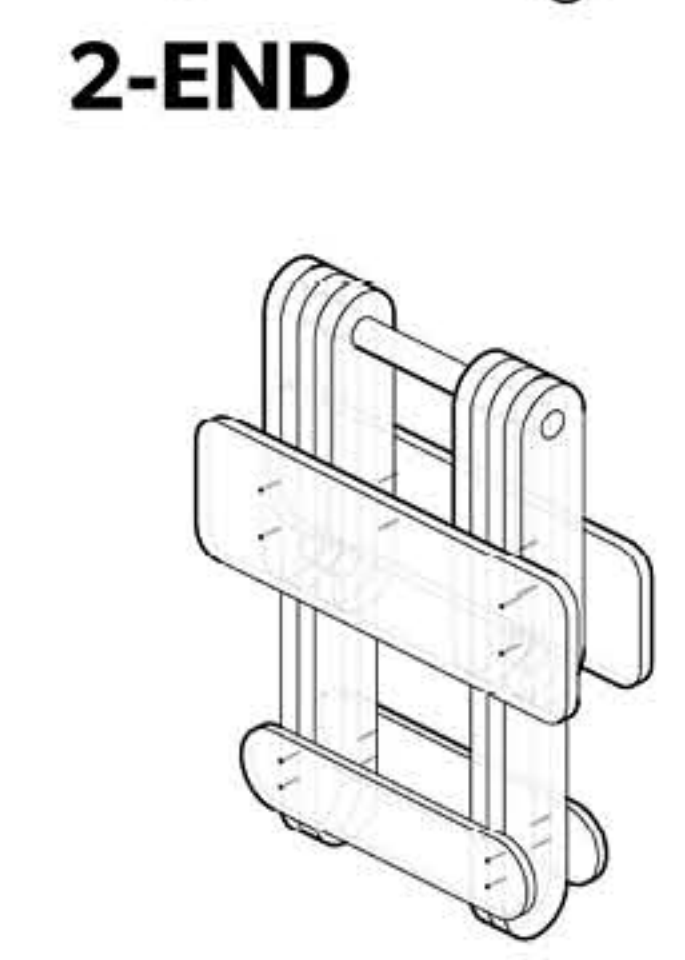
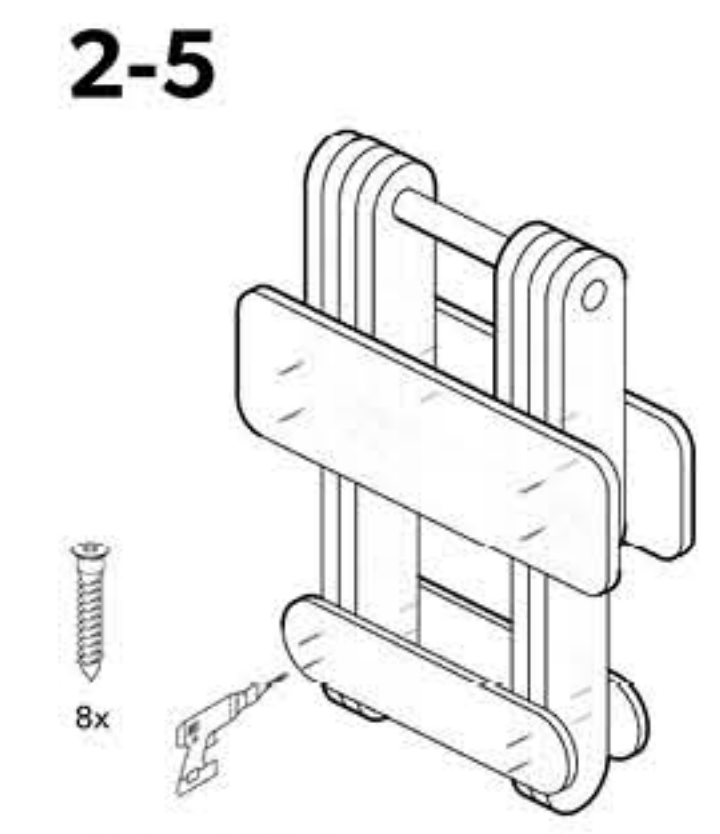
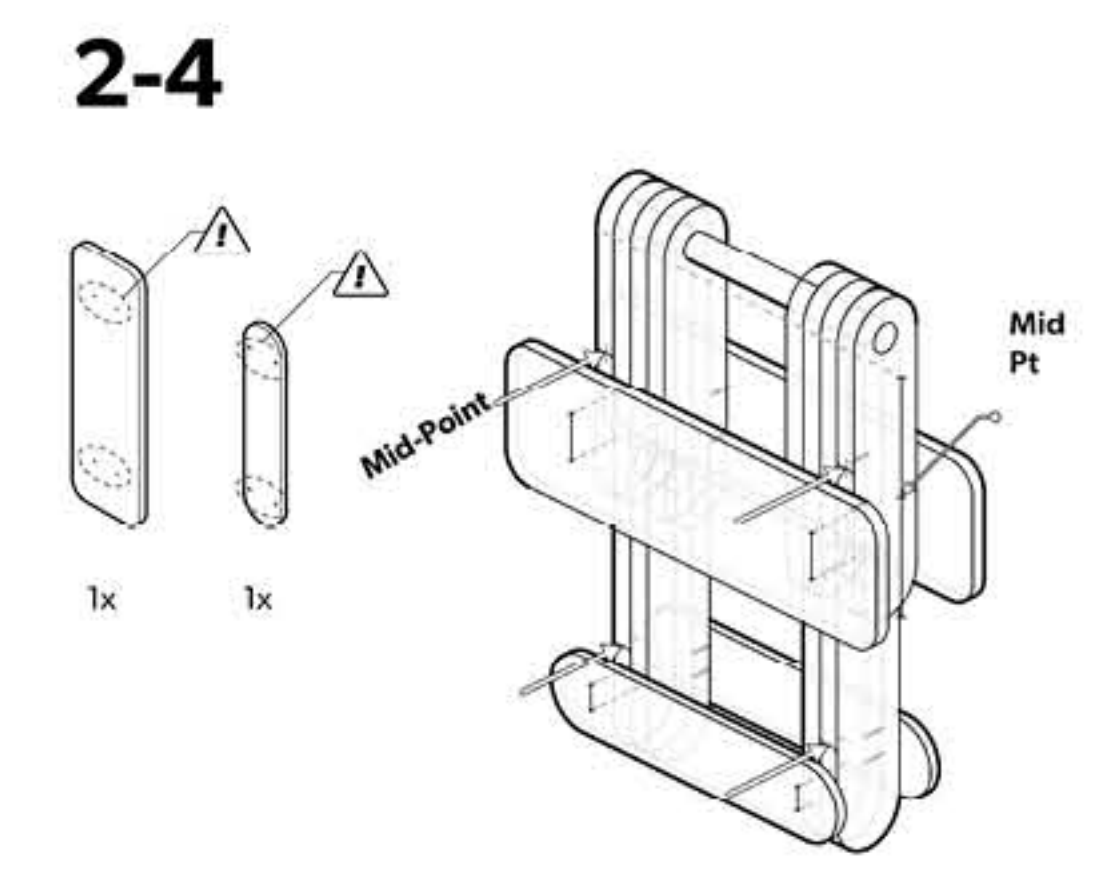
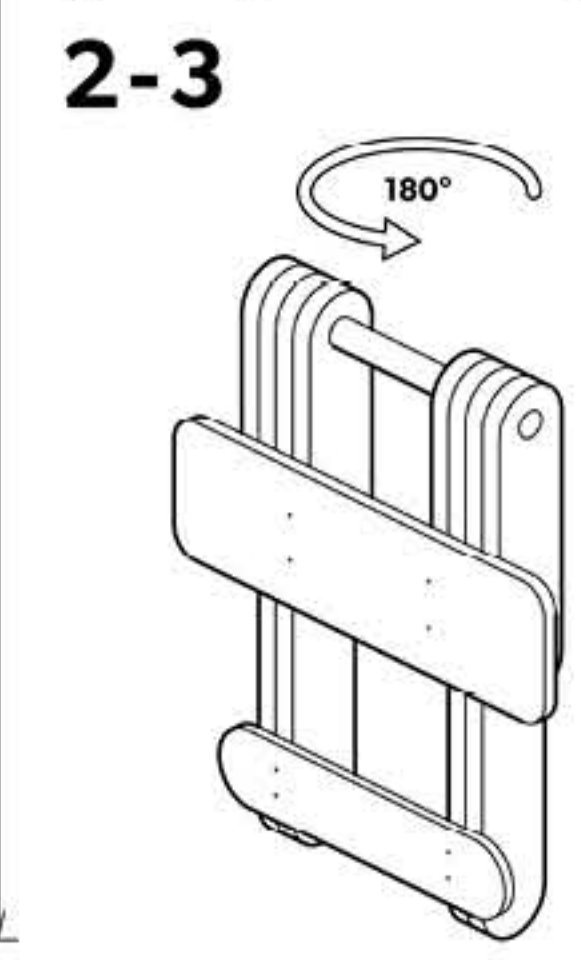
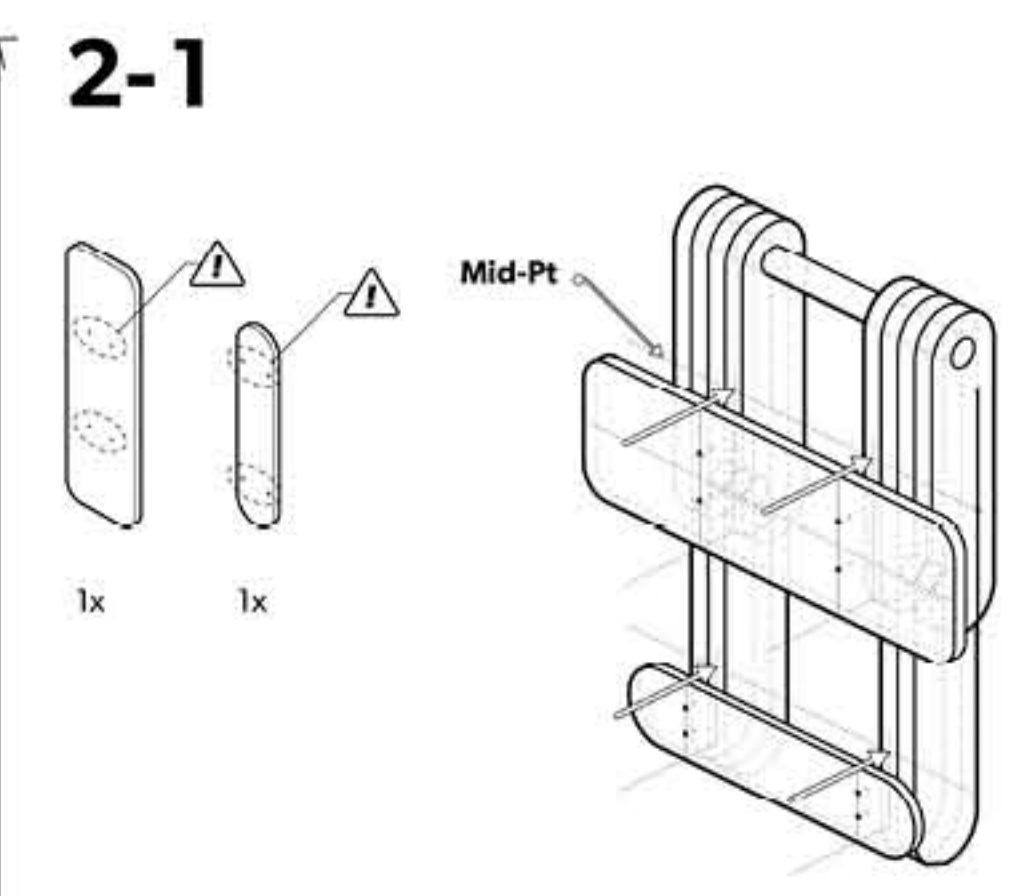
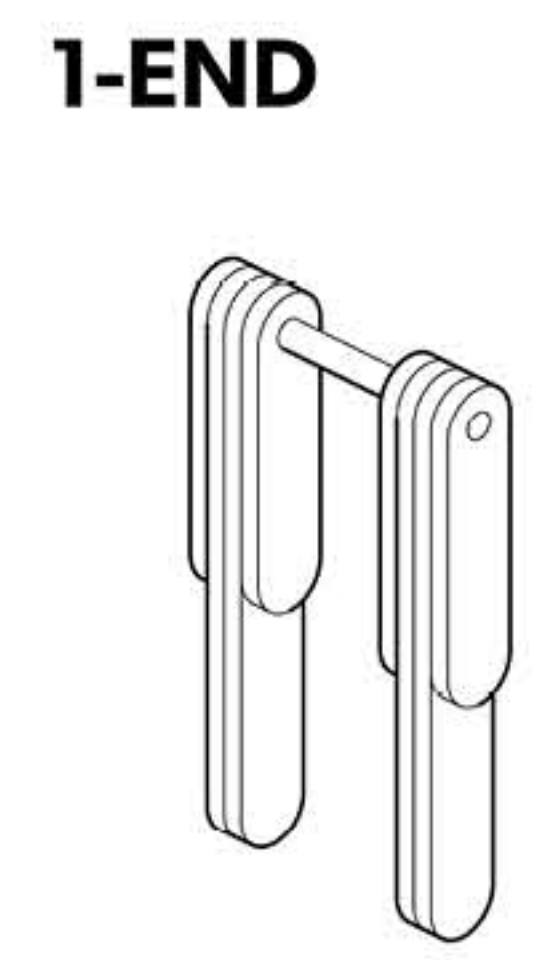
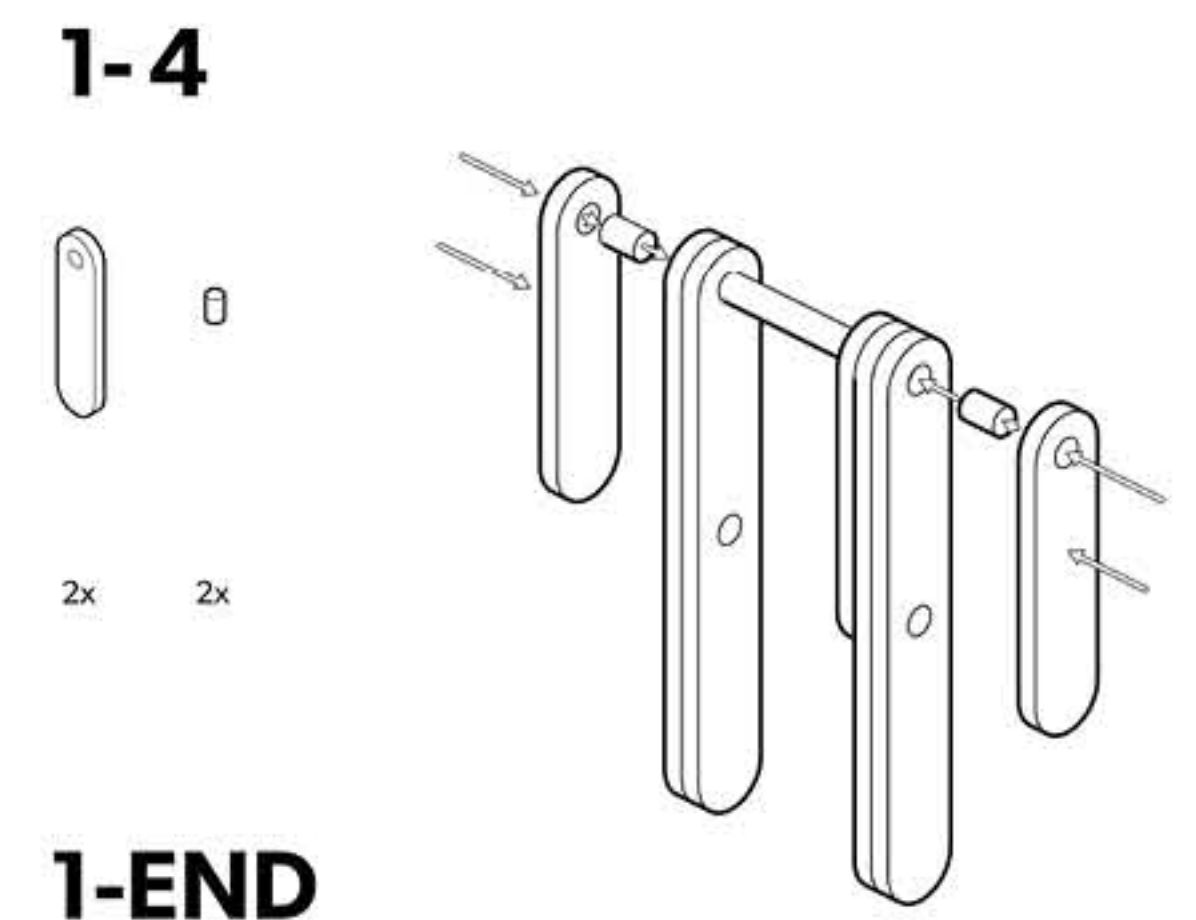
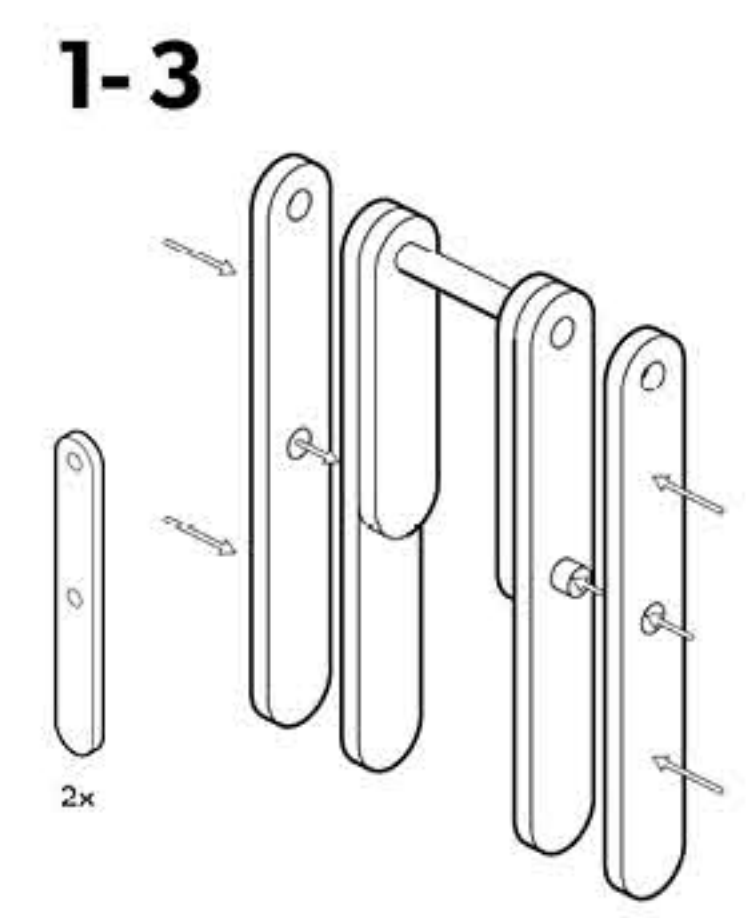
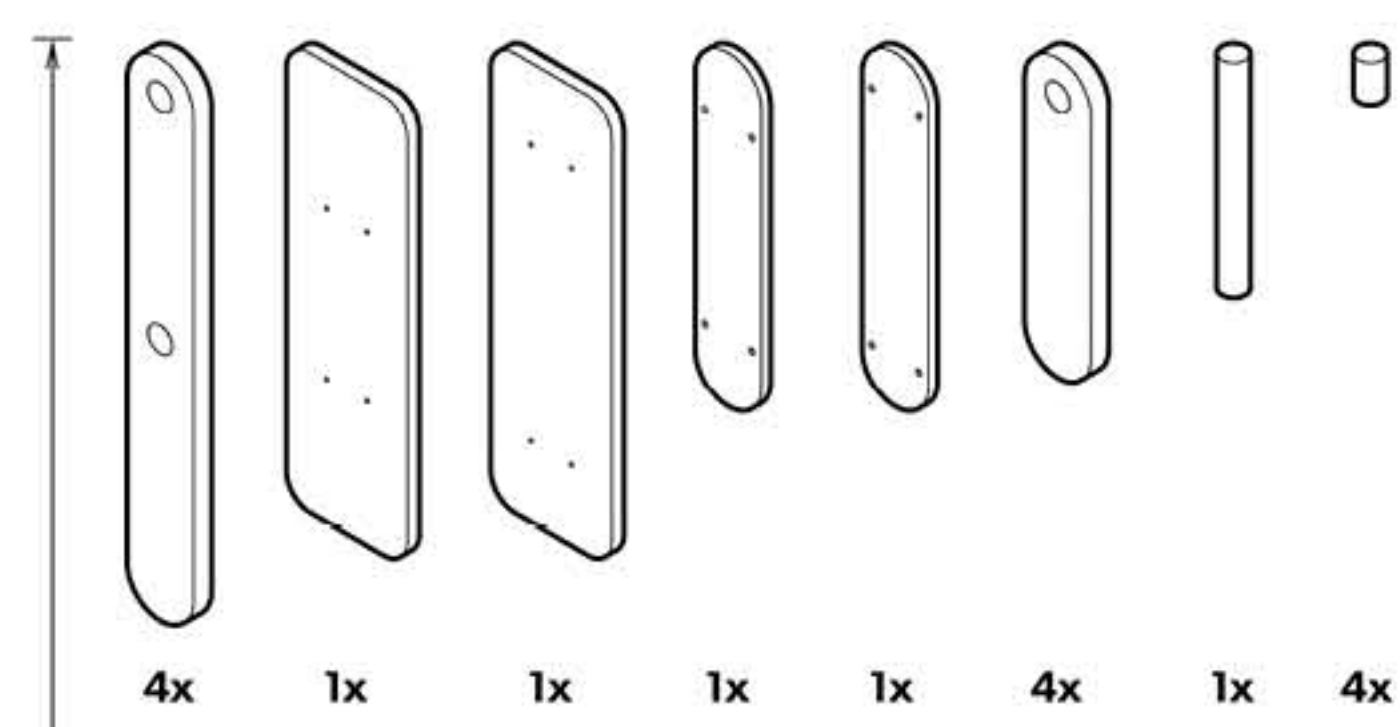
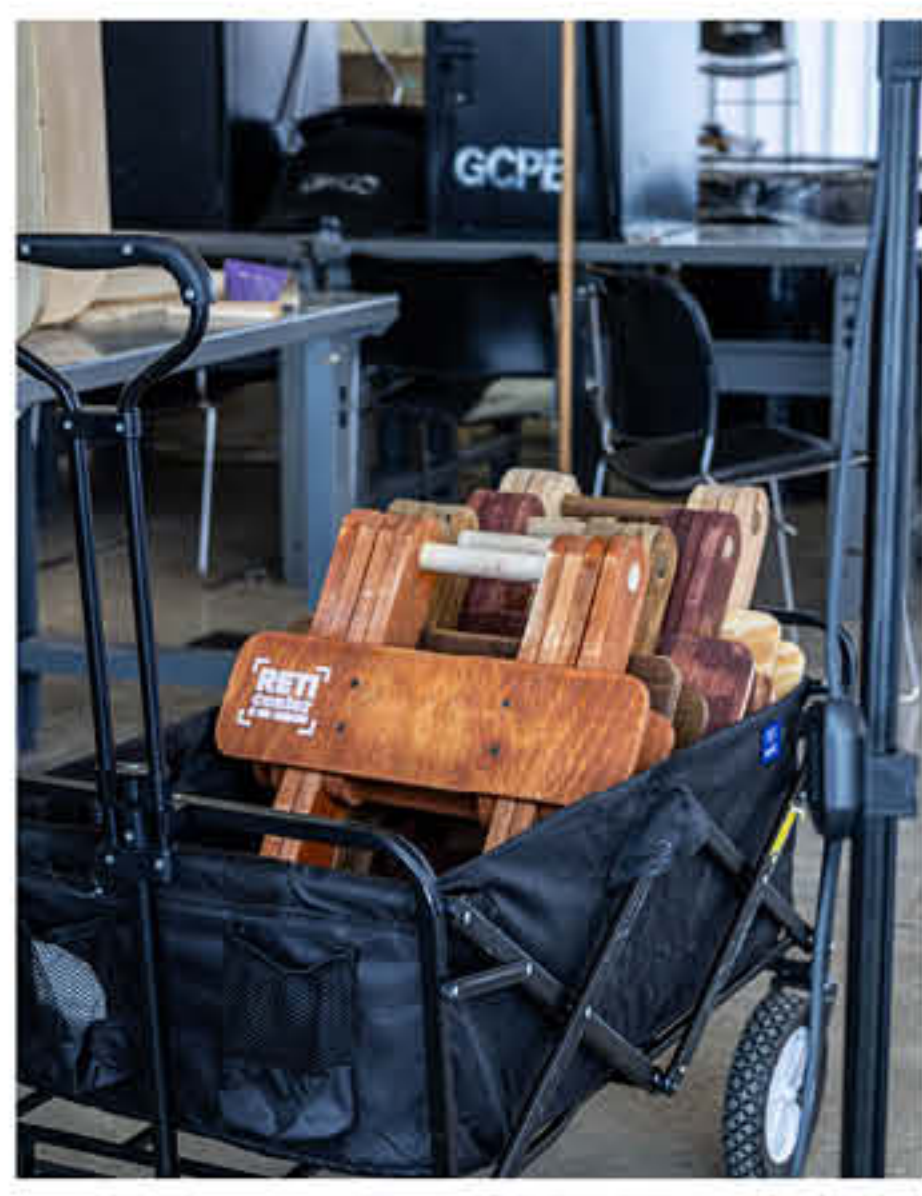
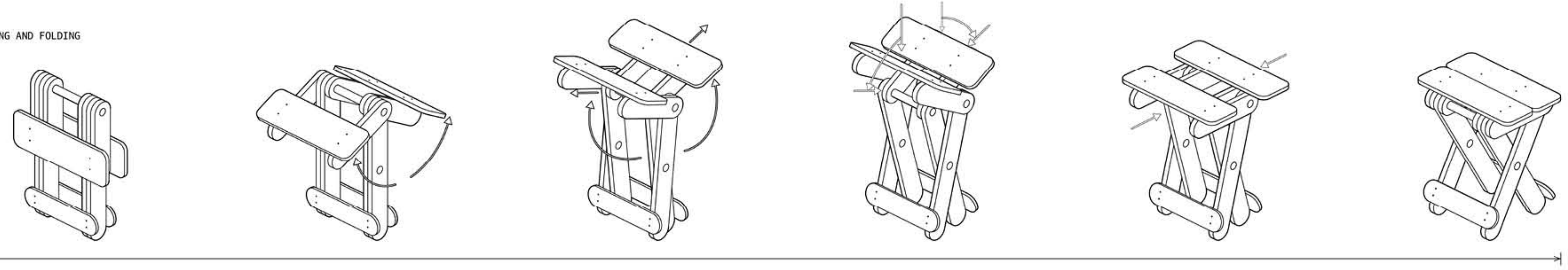
RETI CENTER

CHAIR

RHINO + AI + WOODSHOP

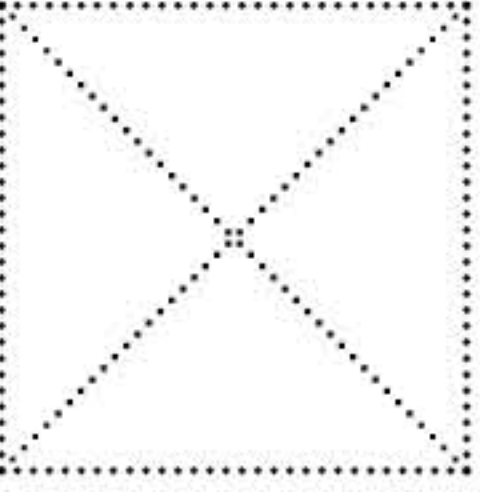
"IKEA VER." CHAIR  
BUILDING MANUAL

CHAIR UN-FOLDING AND FOLDING



CONSTRUCTION MANUAL INSPIRED BY IKEA  
The construction manual is made for RETI, so they can fabricate their own folding chairs from their waste pallets!



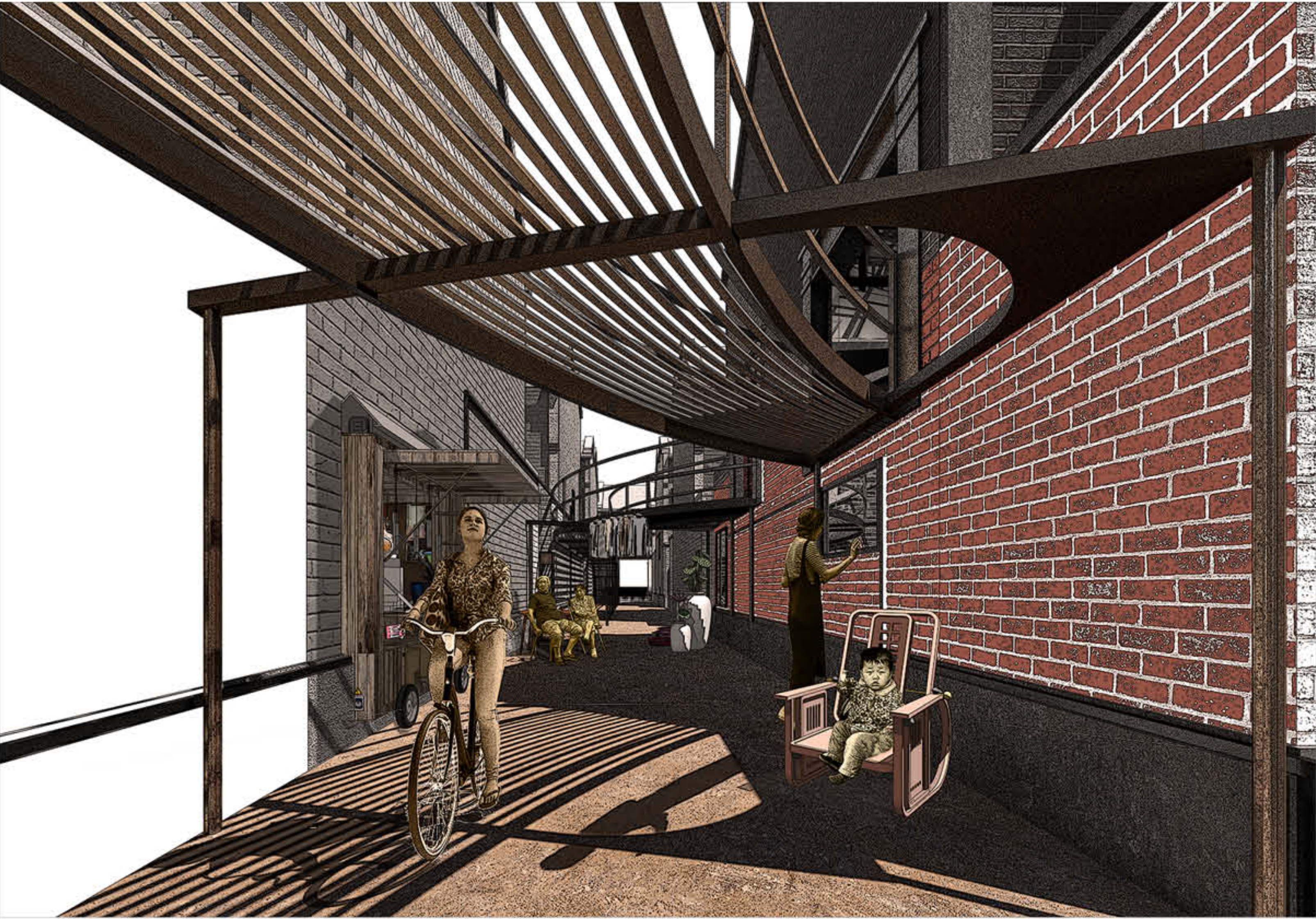
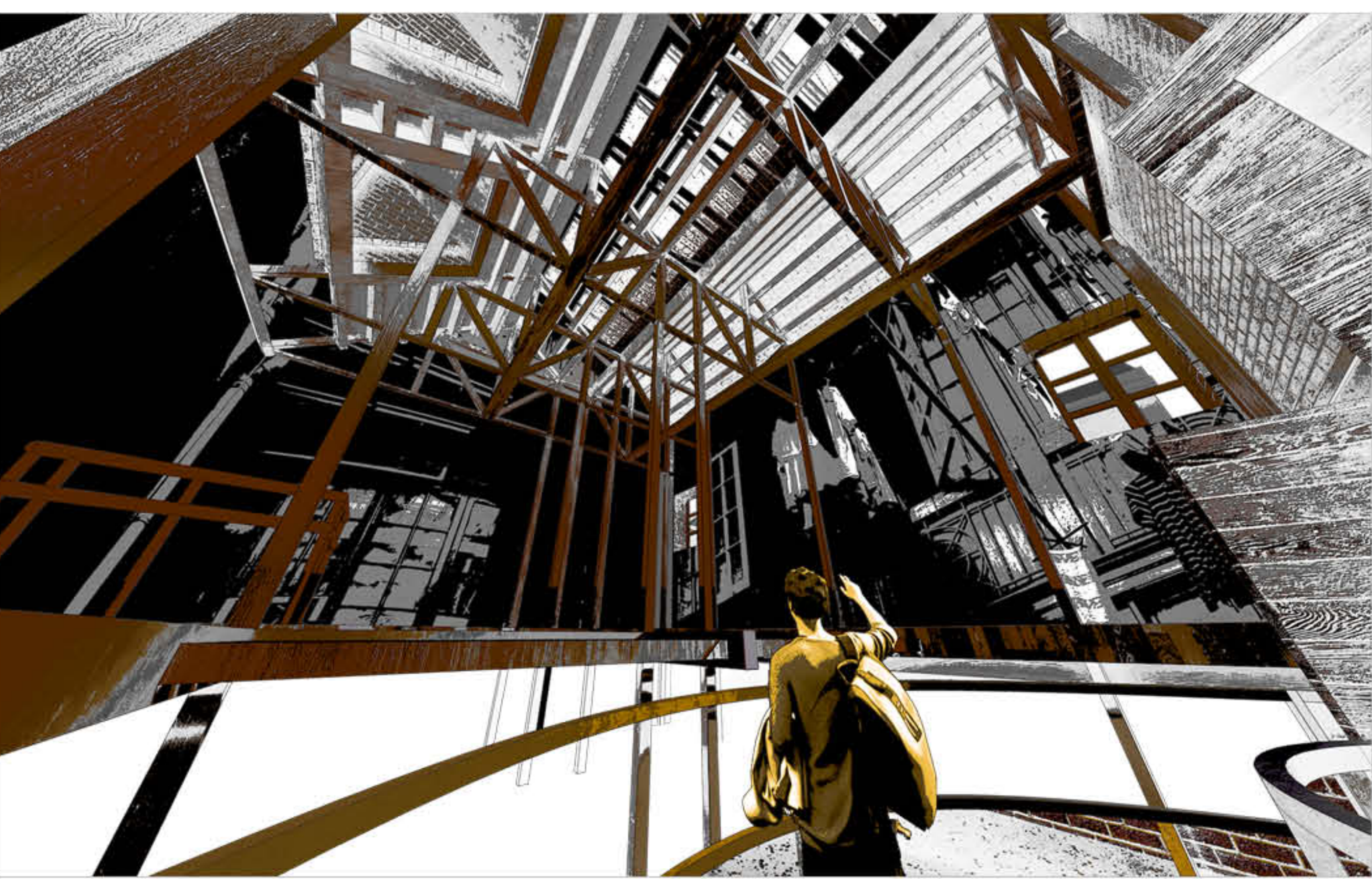


###\_SU2022

RED BRICK WALLS

INTRODUCTION

RHINO + VRAY + PS



## RED BRICK WALLS

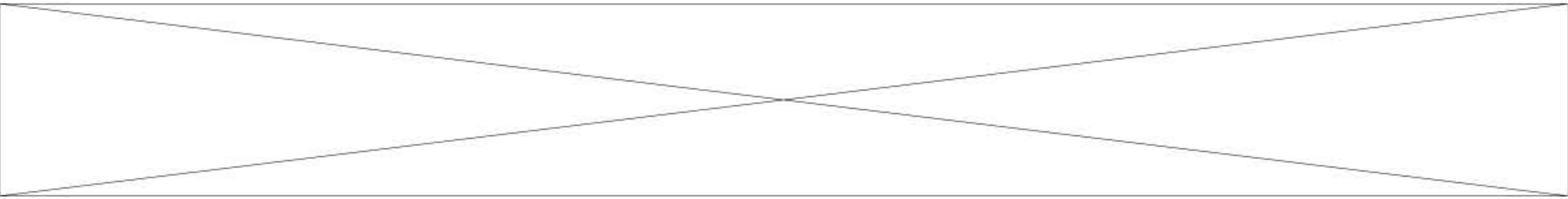
Shanghai, China  
Installation / Museum / Community Revitalizations  
Summer 2022 - Partner with Guanda Li

The Longtang, historic alleyways nestled within Shanghai and developed from the mid-19th to the 20th centuries, are akin to living museums that encapsulate the essence of the city's cultural and architectural history. This design proposal introduces an elevated linear journey that cleverly juxtaposes the dualities of ease and unease, serving to unveil the hidden vibrancy of the Longtang. As visitors embark on this path, they are immersed in the rich textures of Longtang life, finding comfort in the human presence and the material richness that defines these spaces. The journey starts at ground level, allowing travelers to experience the intimacy of the Longtang, before ascending onto a displaced walkway. This elevated path gifts visitors with expansive views and a flood of natural light, offering new perspectives that intertwine the linear experiences of the Longtang with a wider urban narrative.

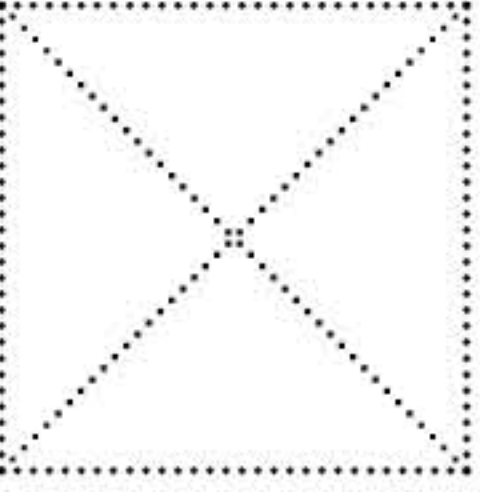


The journey's continuity is artfully disrupted by two distinct cuts, which curve the path away from its linear progression, inducing a sense of unease. These deviations reveal hidden spaces that have been abandoned and left to deteriorate, standing in stark contrast to the bustling life within the inhabited Longtang. The presence of these voids along the path highlights the delicate dependency of these historical sites on human engagement and care.

To deepen this engagement, mirrors are strategically placed along both the original and the elevated paths, reflecting the figures of visitors as they move. This element not only amplifies the personal connection to the space but also poses profound questions regarding the ownership of memory, intertwining past and present experiences. By showcasing the Longtang in both its lived-in and abandoned states, while paying homage to its unique textures, density, and linear form, the design invites a contemplative exploration of how vitality itself can serve as the most effective means of revitalizing the Longtang's history. This proposal aims to foster a deeper appreciation for the complex layers of history and life that coexist within Shanghai's Longtang, encouraging a thoughtful reflection on the importance of preserving such spaces as dynamic repositories of culture and memory.

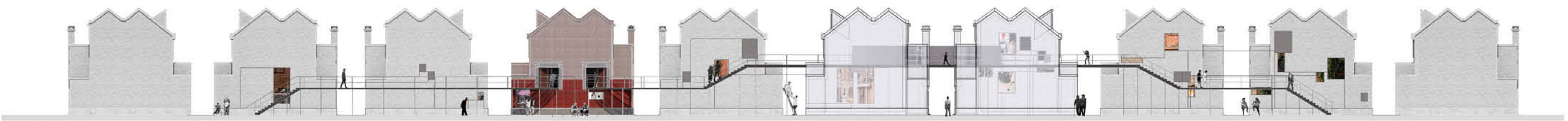
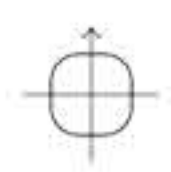
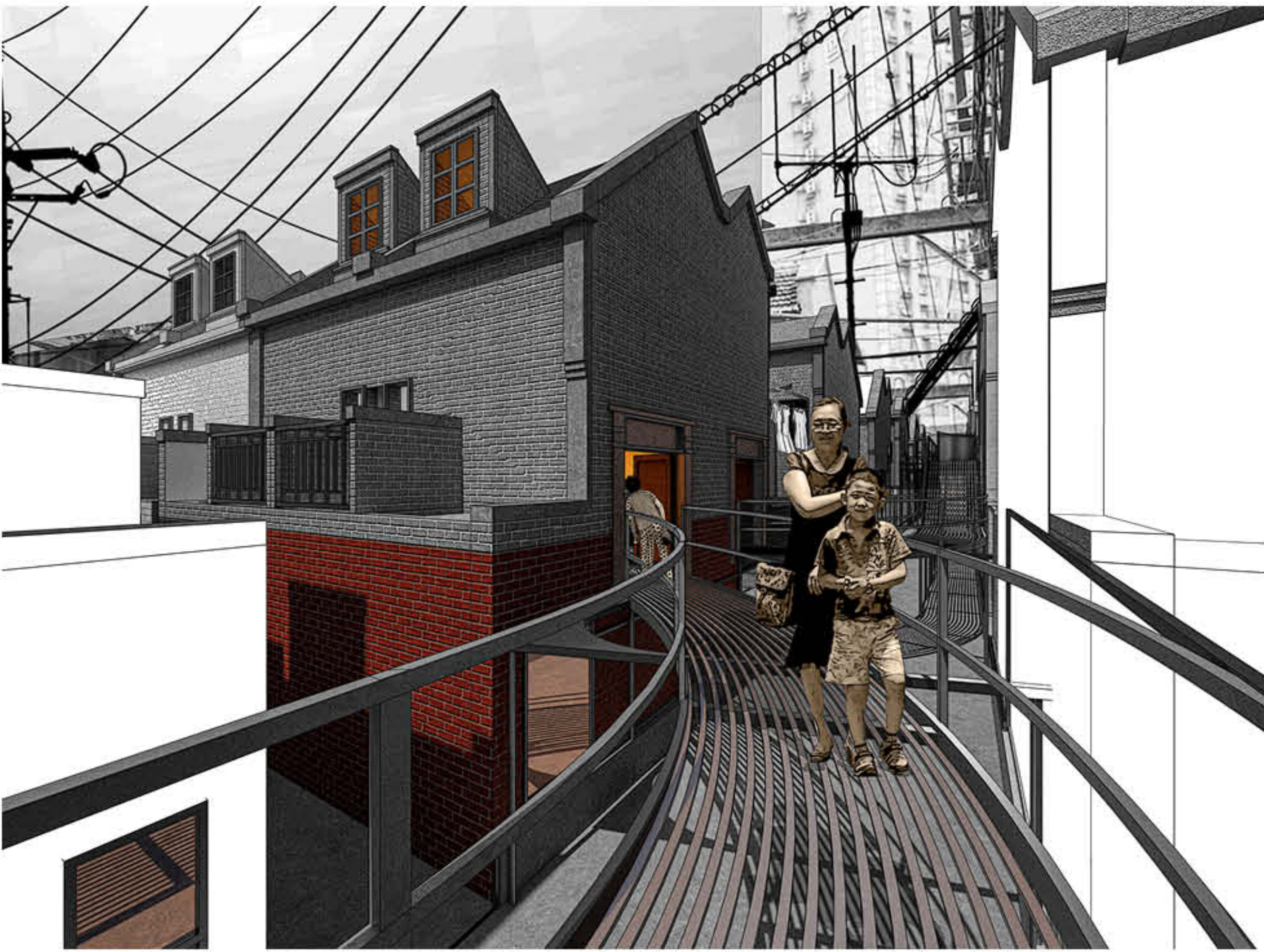
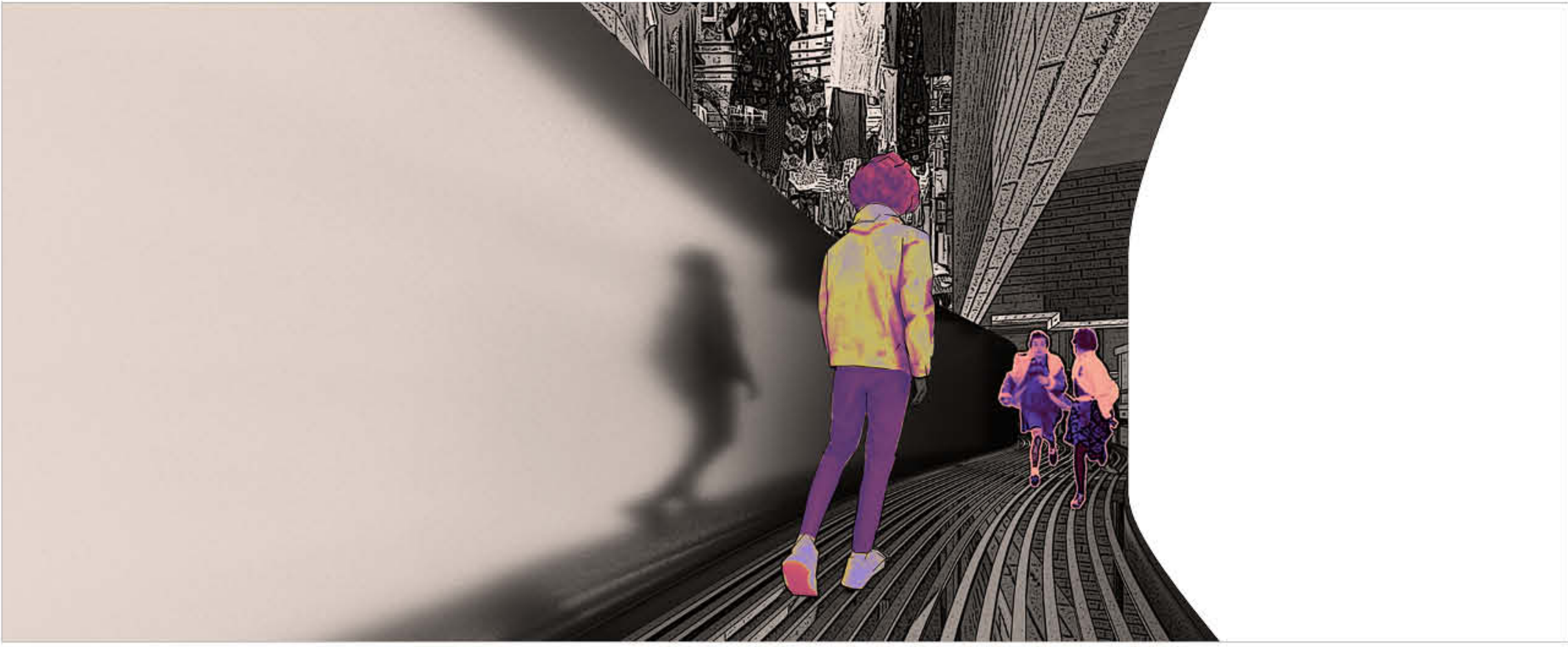
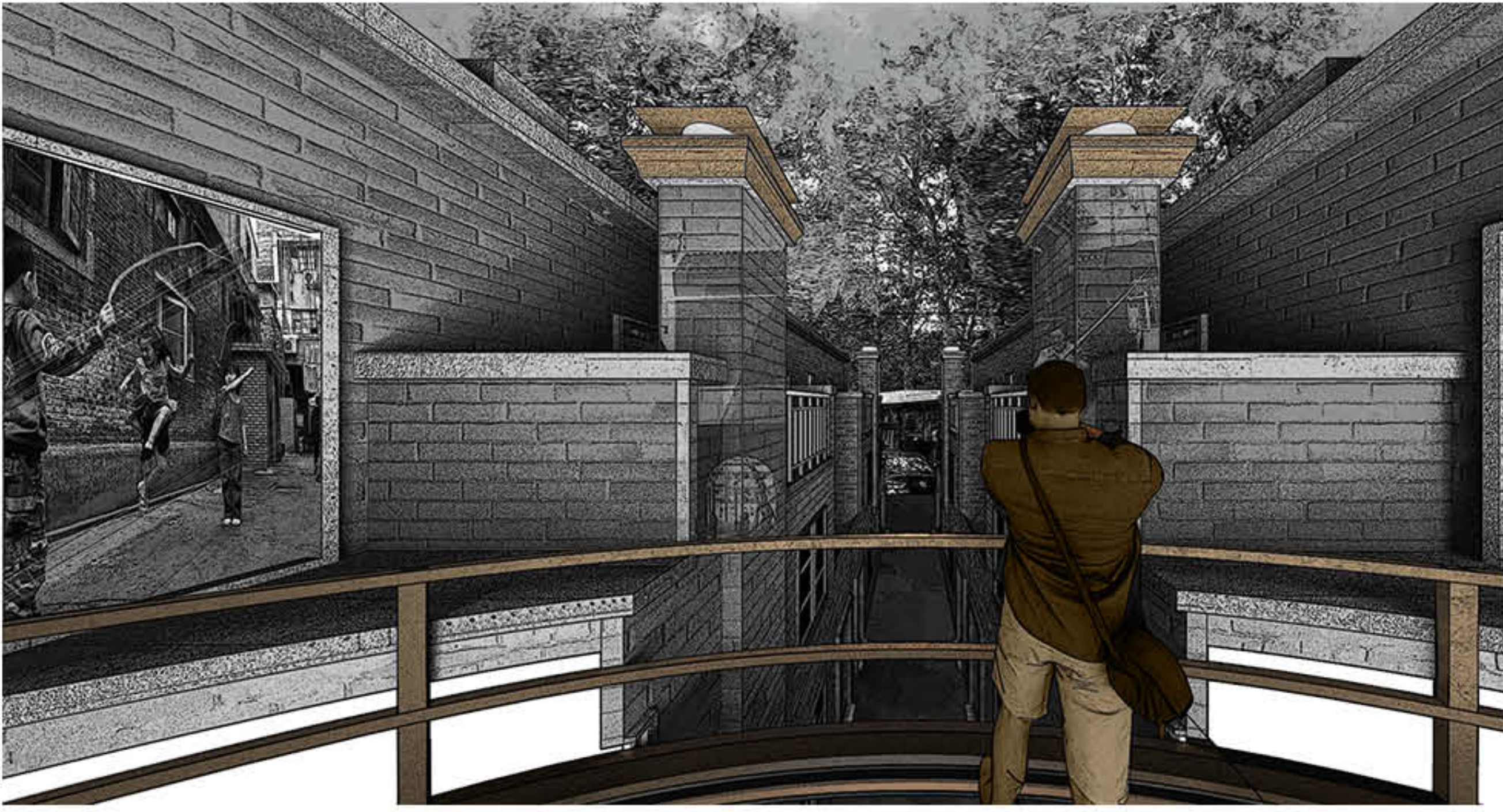






SELF-DIRECTED PROJECT    RED BRICK WALLS    ##\_SU2022

RHINO + VRAY



RENDER COLLAGE

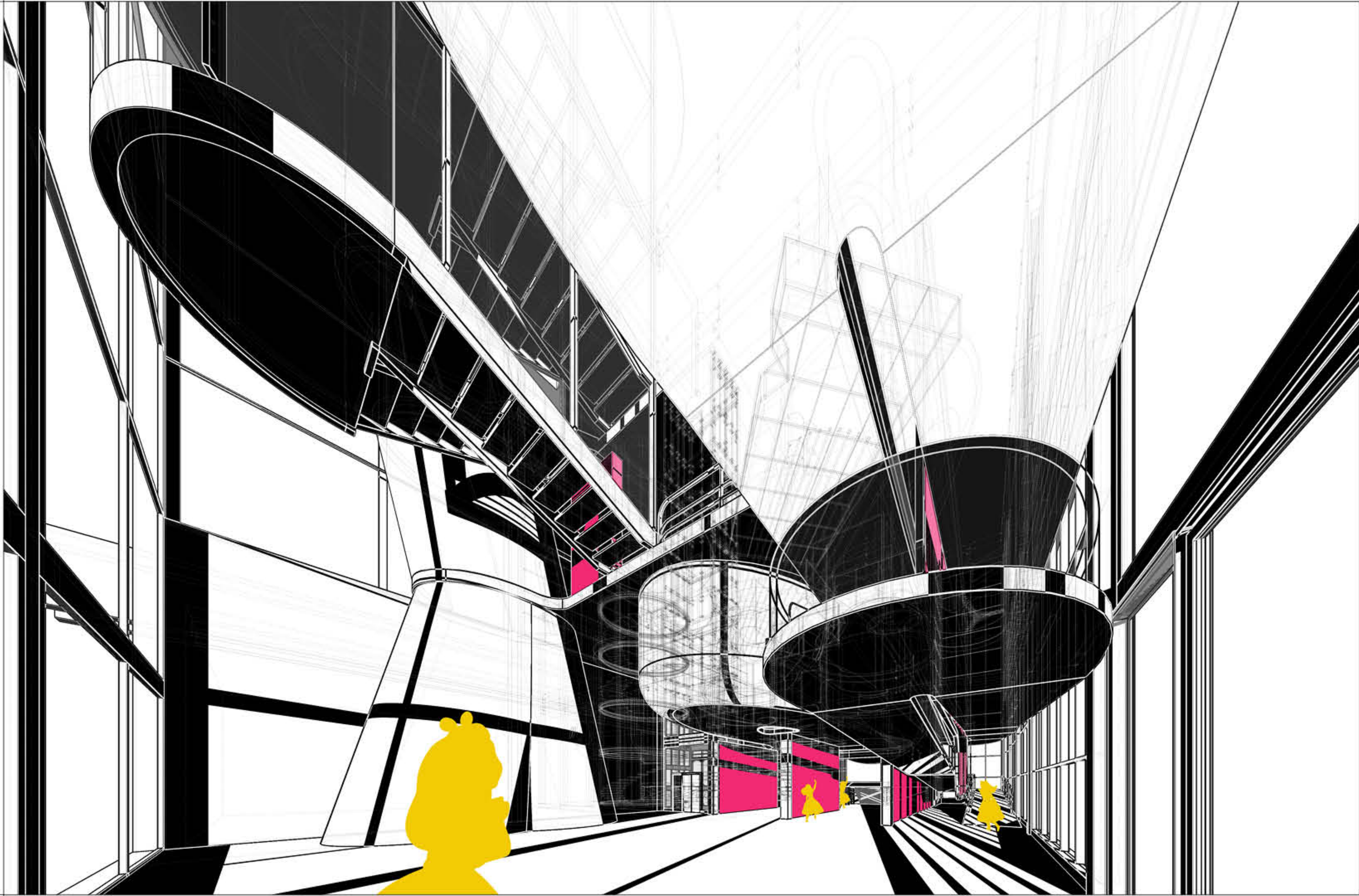


( ~ ^ ▽ ^ ) ~ EXTRAS EXTRAS READ ALL ABOUT IT

Techniques and Tools in Architectural Visualization

# OTHER TOPICS

Renderings / Models  
Construction Documents / Photography / Sketching







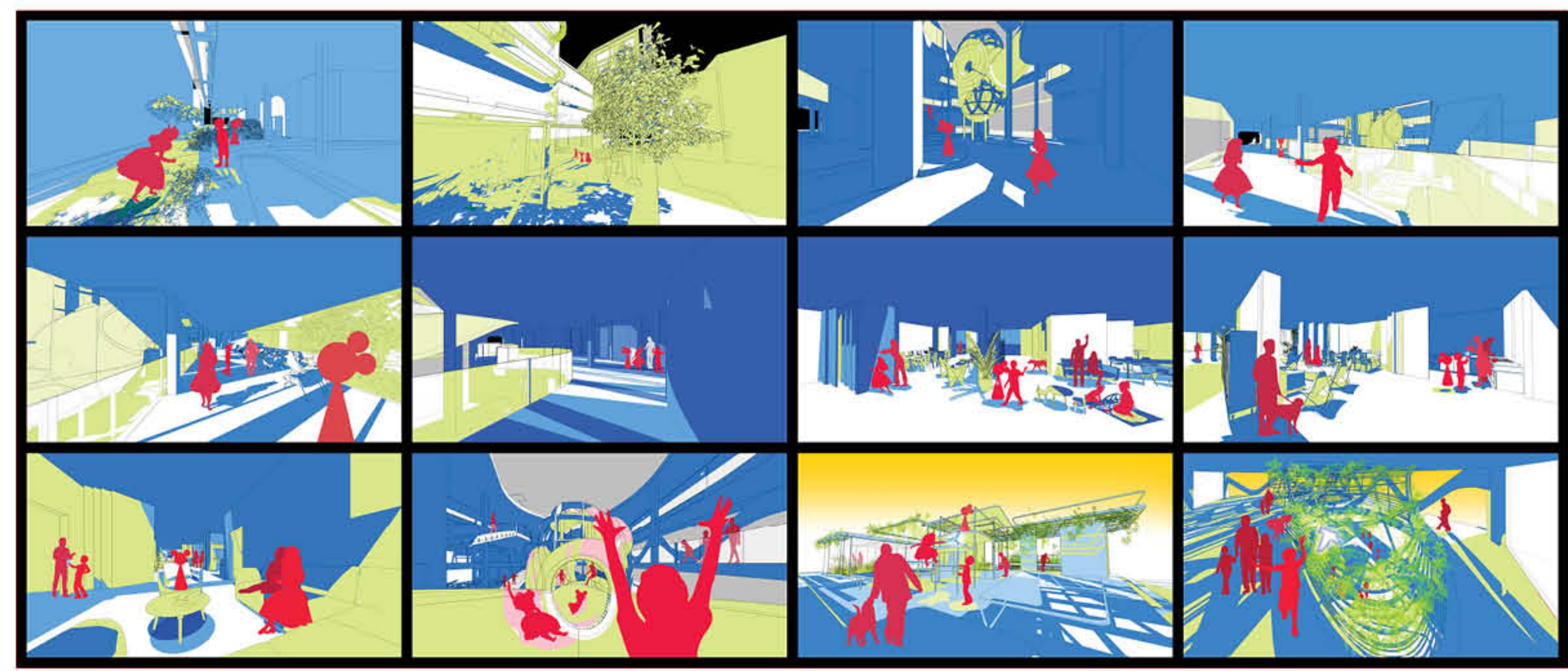
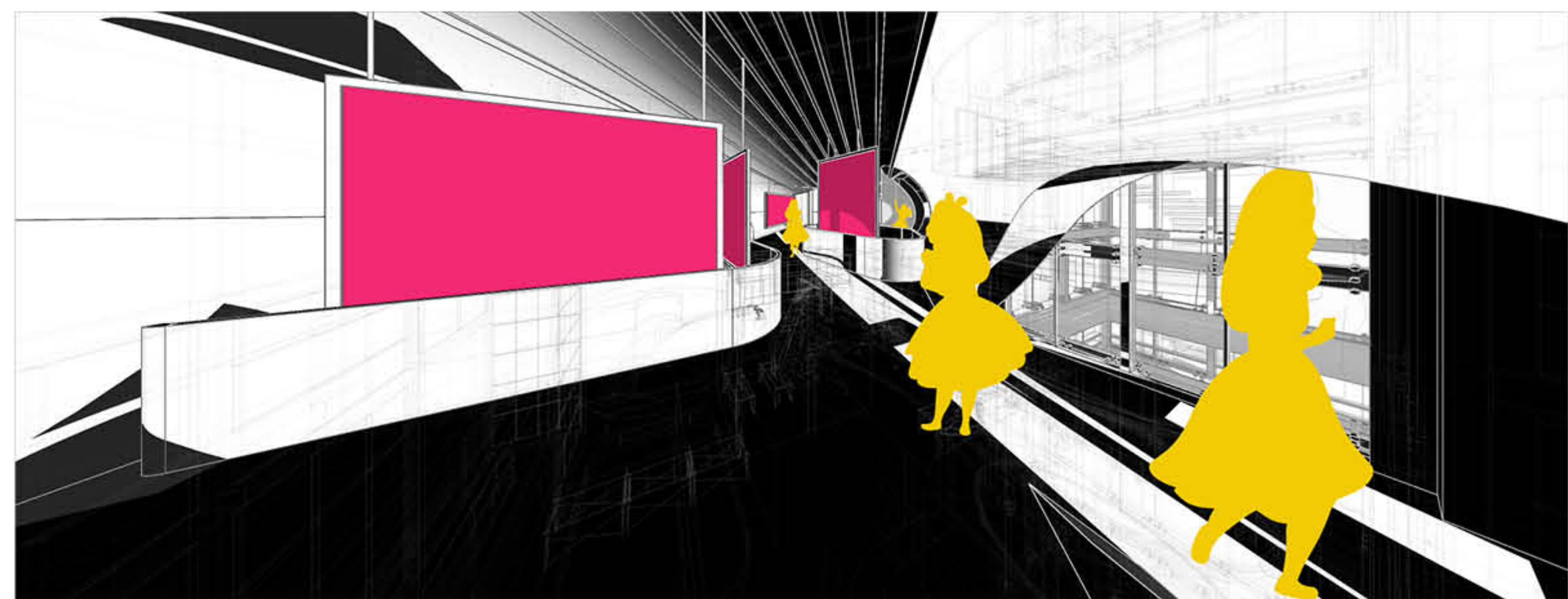
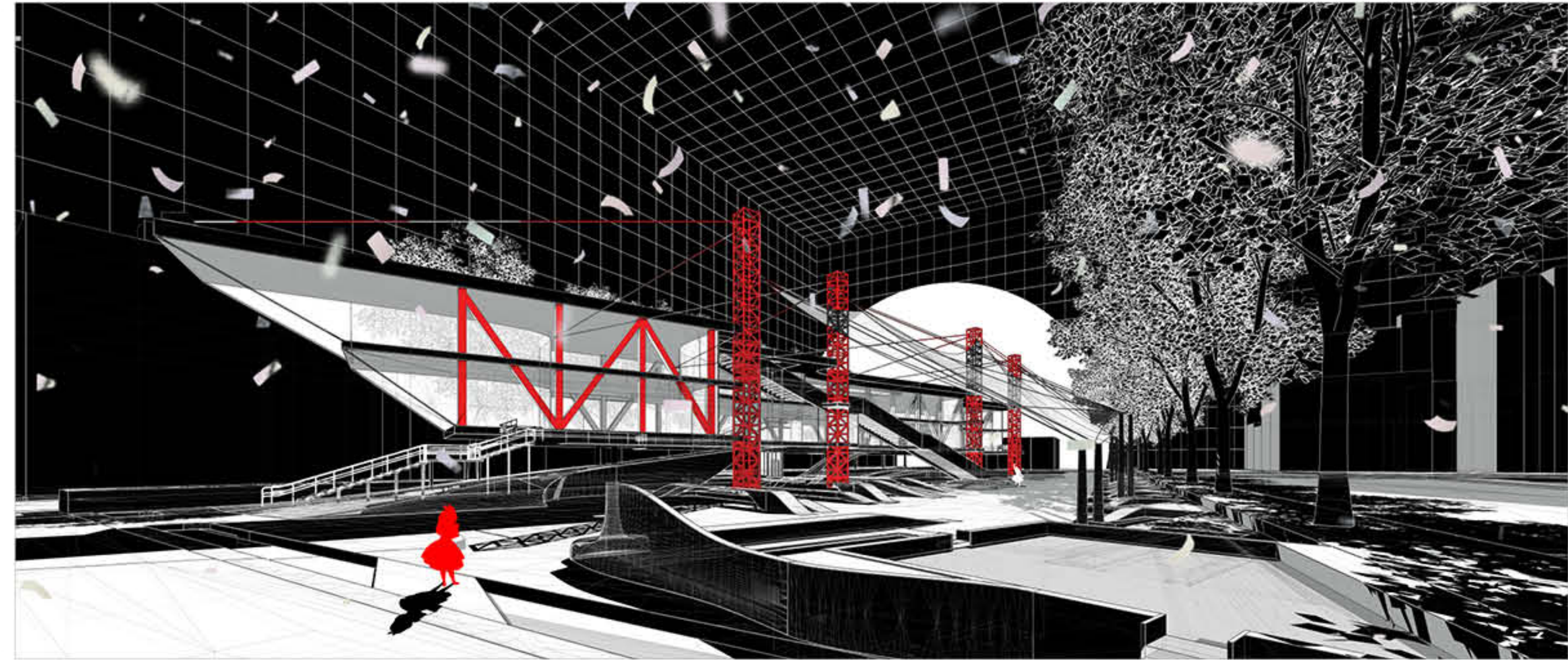
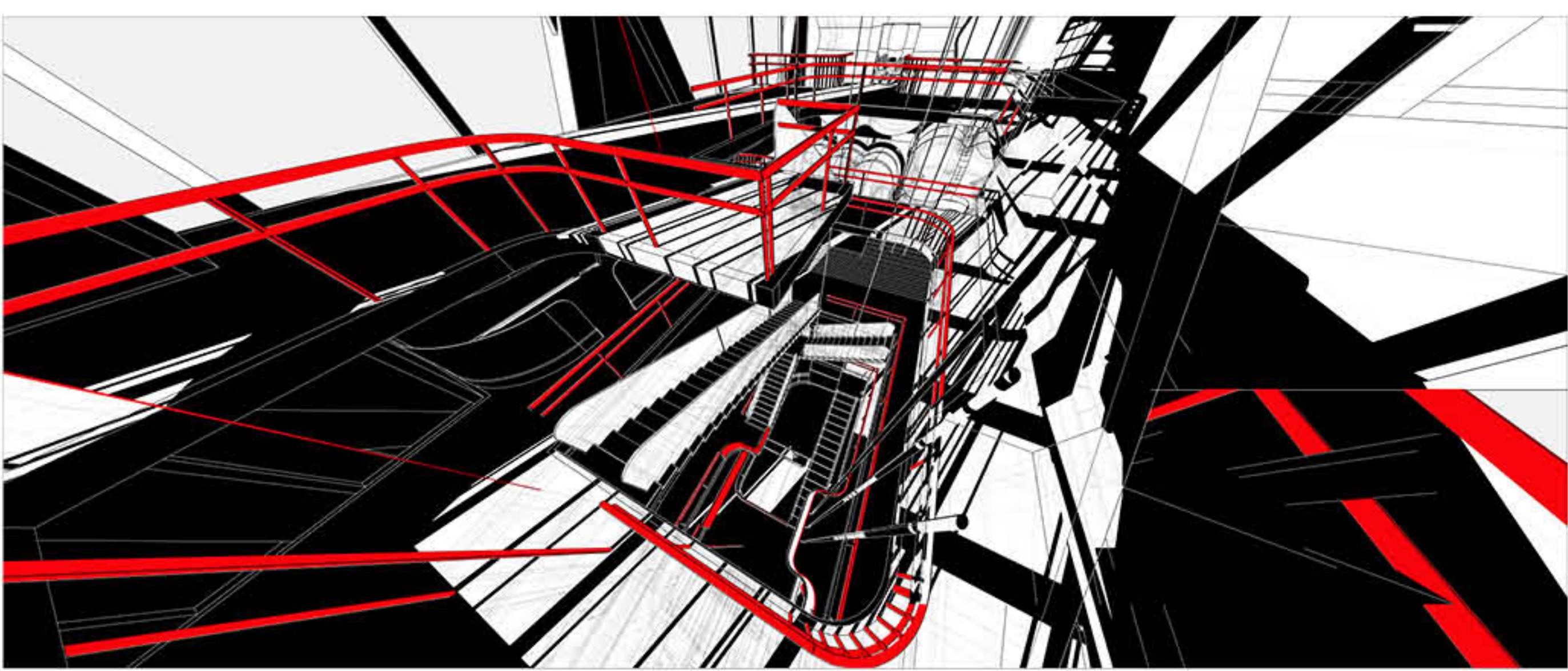
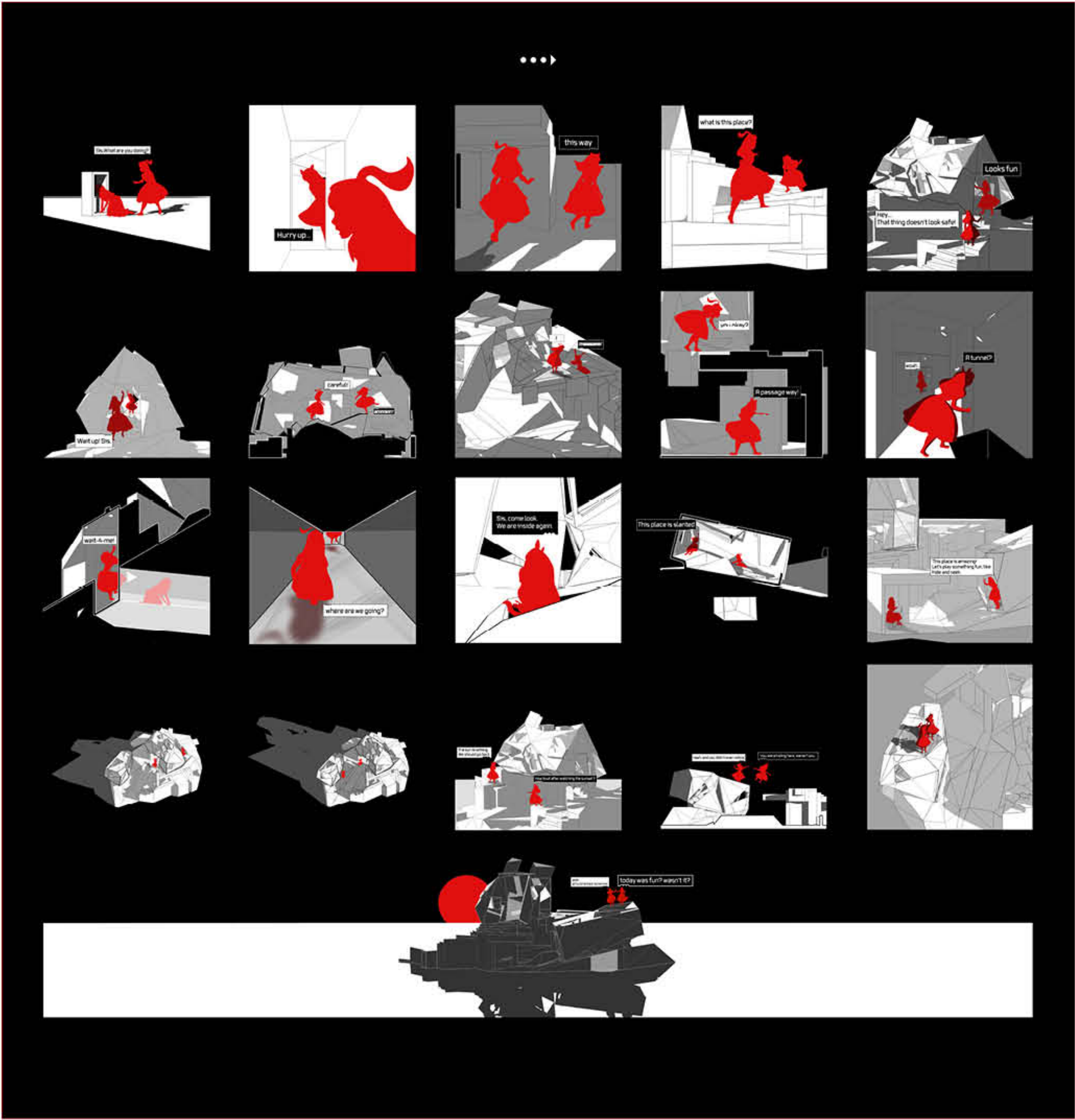
2020-2023

ARCHI - MANGA

GRAPHIC RENDERS

RHINO + SKP + PS + AI

ARCHITECTURE  
SPACE OF A PLOT







2021-2023

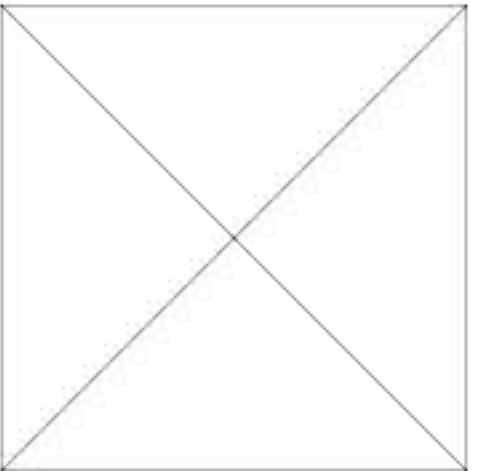
IMAGINED SPACES

TEXTURED RENDERS

RHINO + VRAY







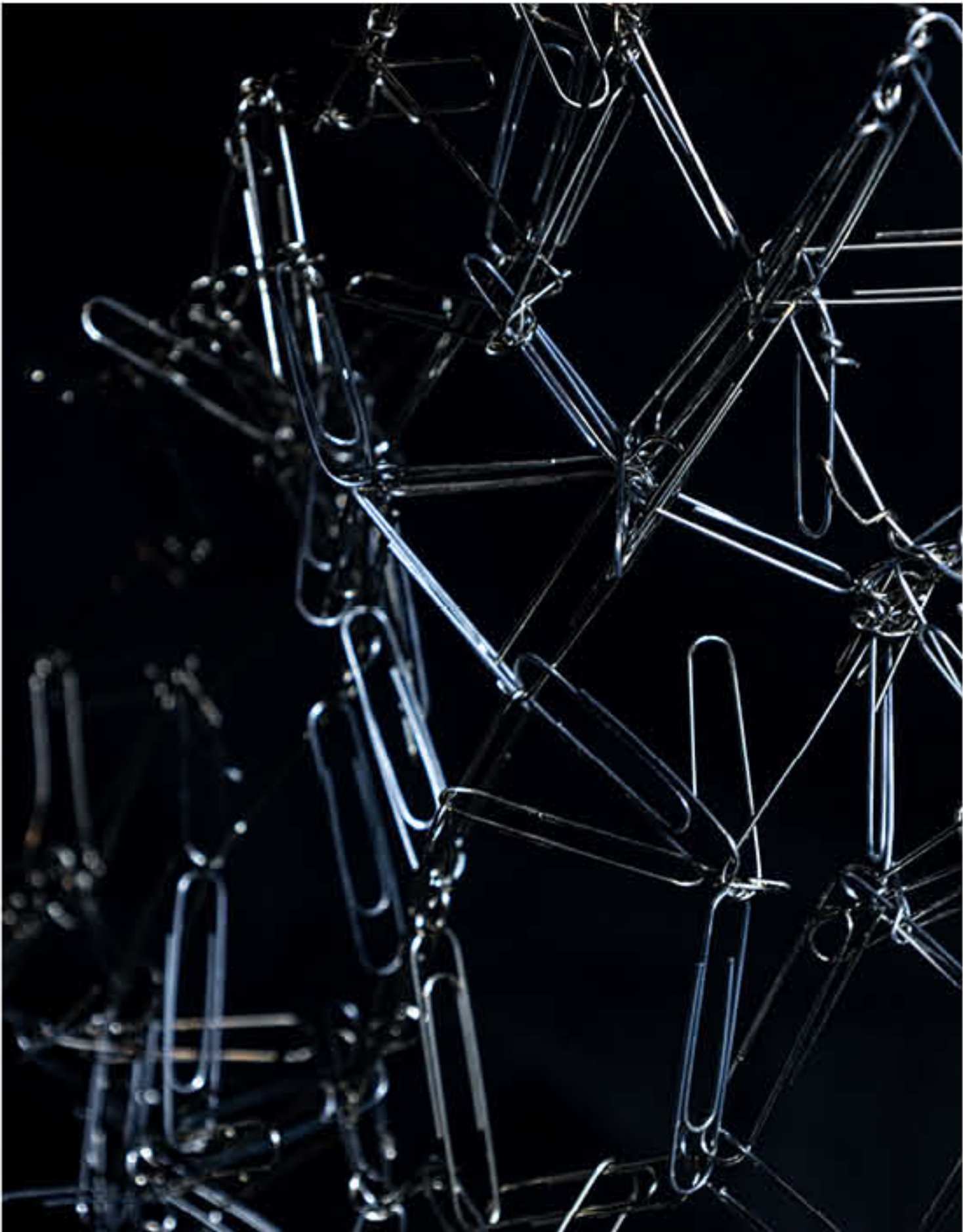
FA2023

INSTALLATION

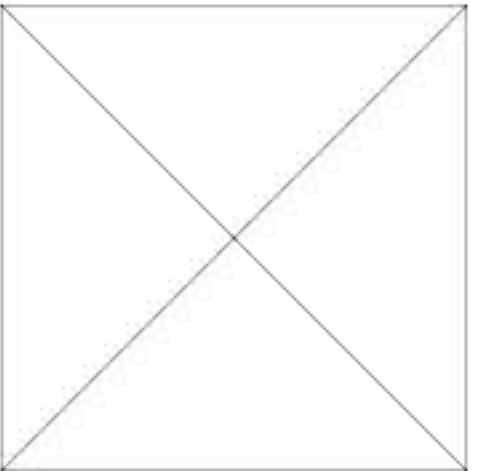
MODELS

SCRAP PRINTS + LASER + PAPERCLIPS

A UNIT OF CONNECTION







FA2023

INSTALLATION

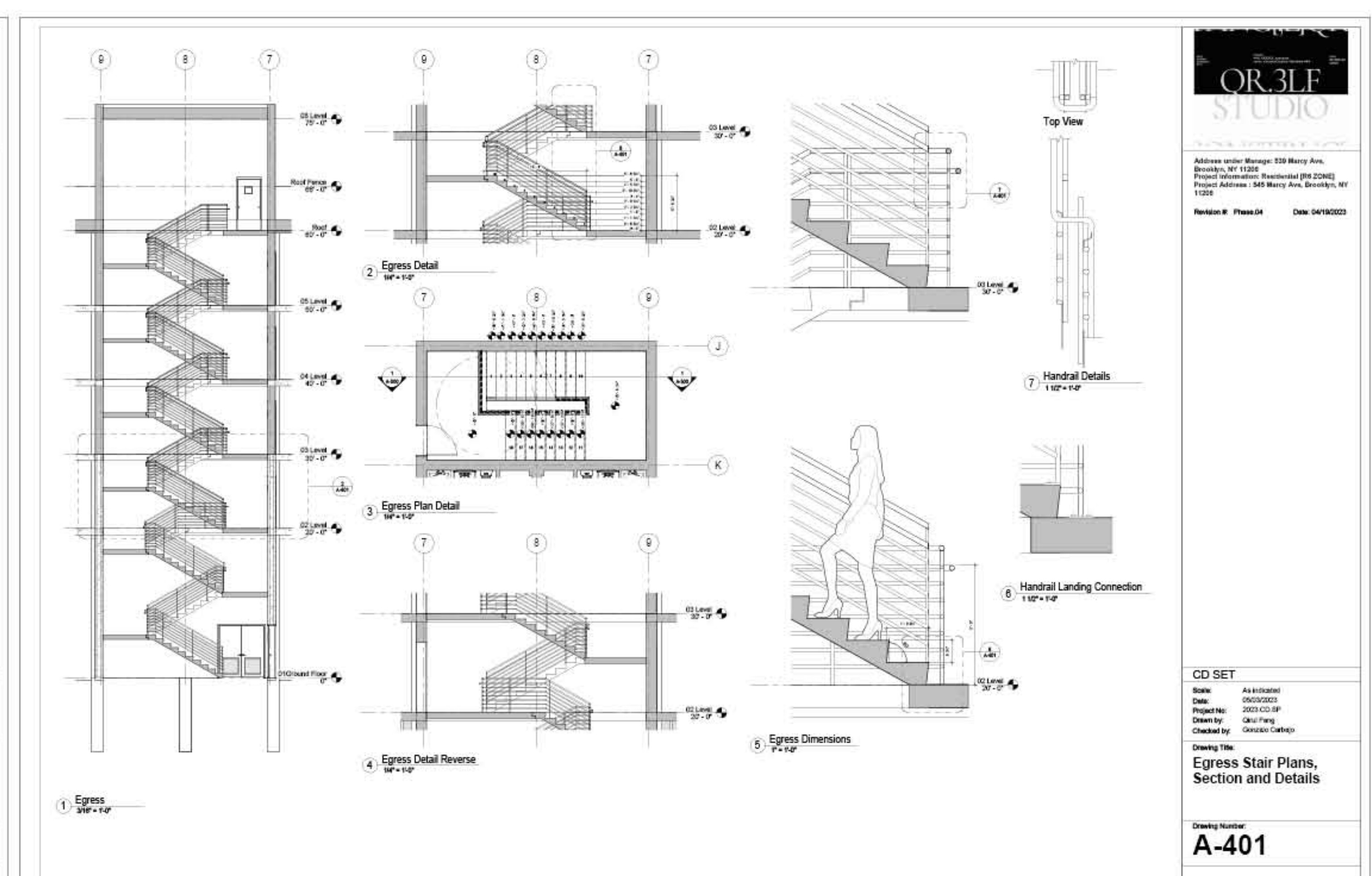
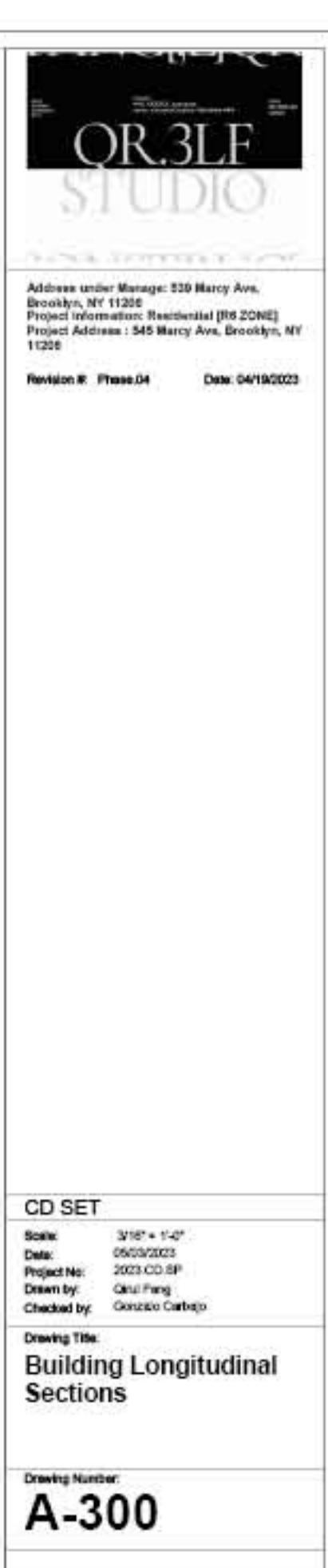
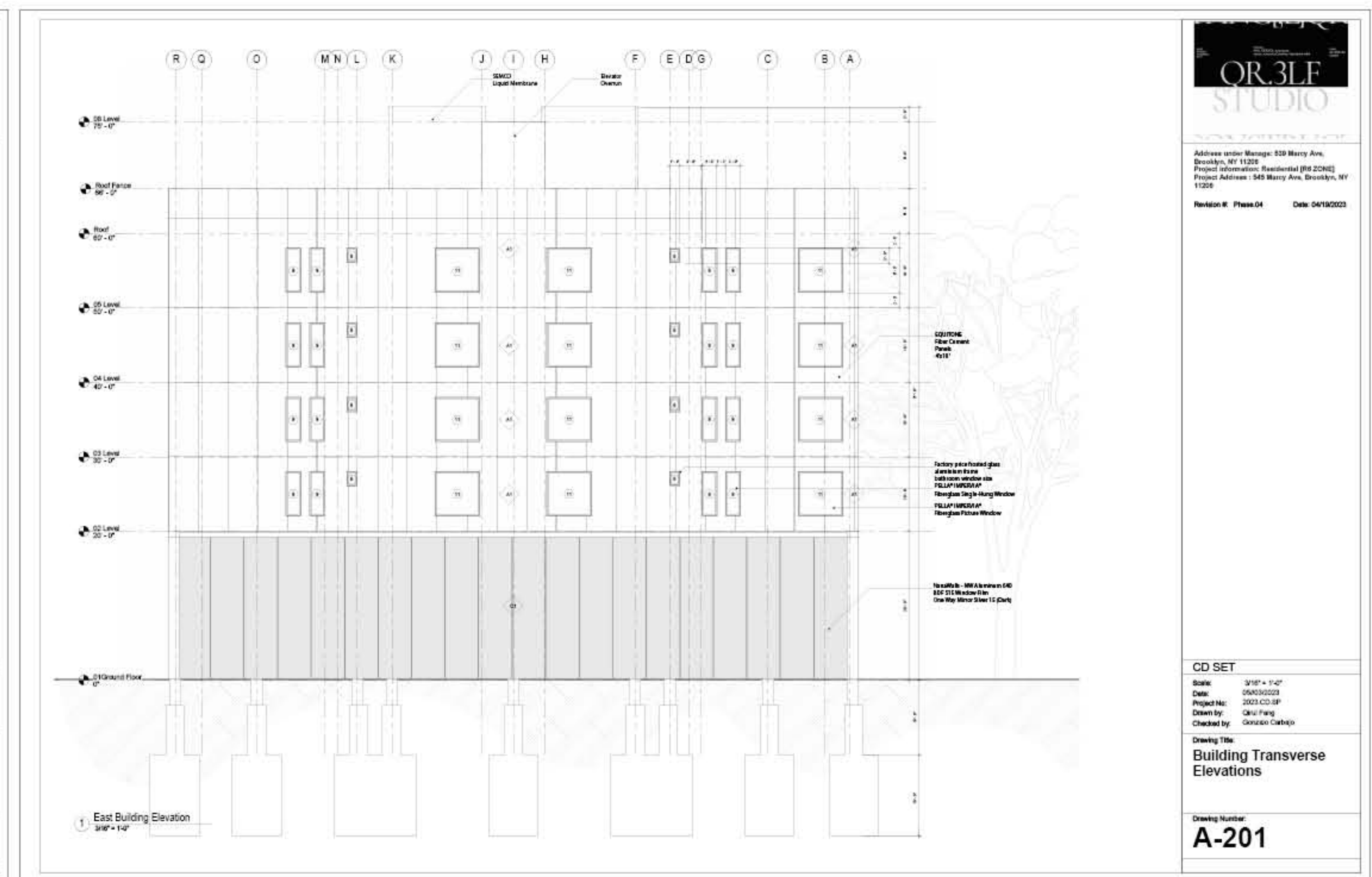
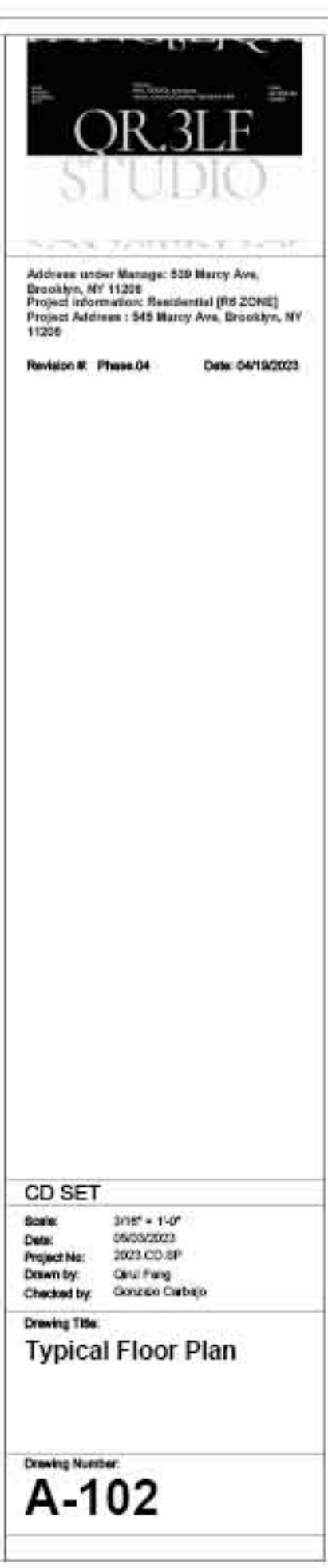
MODELS

SCRAP PRINTS + LASER + PAPERCLIPS

“+” DRAPE











2018-2024

QR.3LF STUDIO

PHOTOGRAPHY

CANON + LRCC + PS

MORE PHOTOGRAPHY  
WORK @QR.3LF

