

SEONG HYUN LEEM

Selected Works 2022-2025

Master of Architecture '25
Columbia GSAPP

Seong Hyun Leem

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Education

Columbia University - New York, United States Graduate School of Architecture, Planning and Preservation - Master of Architecture <i>Honors - Dean's Nomination for the AIA Center for Architecture Allwork Scholarship (2024) / Merit Scholar (2024)</i>	Sep 2022 - May 2025
Hongik University - Seoul, Republic of Korea School of Architecture - Bachelor of Interior Architecture <i>Honors - 1st Prize in Graduation Thesis Exhibition / Summa Cum Laude (2021)</i>	Feb 2016 - Feb 2022

Professional Experience

OMA (Office for Metropolitan Architecture) Architectural Intern / New York	June 2024 - Sep 2024
TPL Architect Architectural Intern / Seoul	Dec 2021 - May 2022
History Future Architecture Lab Architectural Intern / Seoul	Jun 2021 - Dec 2021
Republic of Korea Army ROTC Drill Instructor at Army Cadet Military School	Mar 2018 - Nov 2019

Work Experience

Architectural Drawing and Representation Graduate Teaching Assistant Columbia GSAPP / Instructor : Amelyn Ng, Zachary White	Sep 2024 - May 2025
Core II Architecture Studio Graduate Teaching Assistant Columbia GSAPP / Studio Instructor : Joshua Uhl	Jan 2024 - May 2024
Core I Architecture Studio Graduate Teaching Assistant Columbia GSAPP / Studio Instructor : Kevin Hai Pham	Sep 2023 - Dec 2023
Digital Design Course Part-Time Lecturer Hongik School of Architecture / Seoul	May 2022 - Jun 2022

Awards / Honors

GSAPP Merit-Based Scholarship Issued by Columbia GSAPP	Oct 2024
Center for Architecture Allwork Scholarship (Merit Award) Issued by AIA New York, Center for Architecture	May 2024
Architizer Vision Awards - 3 Special Mentions 2 Special Mentions in Artistic Visulization Categyory and 1 Special Mention in Physical Model Category	Sep 2023
1st Prize in Graduation Exhibition - Hongik University Awarded 1st Prize, Honored by the Alumni President in the 65th Graduation Exhibition	Jun 2021
President of AURI (Architecture & Urban Research Institute) Award Awarded in the 2021 National Hanok Competition	Oct 2021
Full-Scholarship for Academic Excellence Received Full Tuition Scholarship for Perfect GPA (4.5)	Jul 2020

Activities

ADD (Architecture and Digital Design) Founder	Feb 2021 - Present
Hongik University 10-11th Student Association Student Representative	Jun 2016 - Dec 2017

Exhibitions

ADD+ Overture Exhibition DDP (Dongdaemun Design Plaza), Funded by Seoul Design Foundation	Nov 2021
Next Generation Architects Exhibition Seoul National University Museum	Sep 2021
Hongik School of Architecture 65th Graduation Exhibition Hongik University Contemporary Art Museum	Jun 2021
Light & Architecture Pavilion Exhibition Hongik University Contemporary Art Museum	Dec 2016

Selected Works 2022 - 2025

Master of Architecture Candidate, Columbia GSAPP

PROLOGUE

Architecture is not merely about constructing form, but about constructing relationships—
between people, programs, and the systems that shape daily life.

This portfolio represents a spatial approach developed at Columbia GSAPP, grounded in
observation, critical inquiry, and a belief in architecture’s capacity to redistribute access,
visibility, and care. Rather than viewing space as static or complete, the work embraces the
unfinished, the adaptable, and the in-between as opportunities for design.

Across this body of work, a consistent interest emerges: designing frameworks rather than
fixed forms, and engaging with existing conditions—social, material, and infrastructural—as
generative constraints. Each project builds upon the last, gradually deepening a commitment
to informality, hybridity, and spatial agency. Whether working with collective housing, public
institutions, or systems of informal labor, the goal has been to uncover how architecture can
mediate between what is visible and what is essential, between what is built and what is lived.

This portfolio does not present architecture as a set of answers, but as a tool for asking better
questions—about access, adaptation, and belonging. It is a reflection of a design ethos that
values resonance over resolution, and sees every space as an open system shaped by the
communities that inhabit it.

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Spring 2025 Columbia GSAPP Advanced VI Project

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03 Contingency Plan
Re-thinking Contested Territories of Wild/Willed
Spring 2024 Columbia GSAPP Advanced IV Project

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Fall 2023 Columbia GSAPP Core III Project

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Spring 2023 Columbia GSAPP Core II Project

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Re-thinking of Disciplinary Norms in Urban Infrastructure
Fall 2022 Columbia GSAPP Core I Project

Tech / Representation Works

07 Great Falls Green Center Restoration
Fall 2023 Columbia GSAPP Architectural Technology IV Project

08 Net / Works
Spring 2025 Columbia GSAPP Tech Elective Waste / Works Project

09 Rosenthal Contemporary Arts Center
Fall 2022 Columbia GSAPP ADR I Project

10 Tension Imprint
Fall 2024 Columbia GSAPP Tensile and Compression System Project

01

Cover to Cover

Shakygrounds - Mexico City



Project - GSAPP Advanced VI Studio

Period : 3rd Year, Spring 2025
Type : Hybrid Housing + Market
Category : Academic (Collaboration with Mauro Rodriguez)
Instructor (Coordinator) : Gabriela Carrillo (Mario Gooden)
Keywords : Front/Back of House, Working Class, Public Space Reclamation

Project Brief

In Mexico, the Kitchen is Often Not Hidden but Exposed—facing the Street as a Site of Labor, Care, and Economy. “Cover to Cover” Builds on this Cultural Logic to Reimagine Hybrid Housing for Working Class Residents as Infrastructure for Public Trust and Collective Agency.

Set in Front of the Mercado De San Cosme, the Project Challenges the Traditional Divide Between Front of House and Back of House by Turning Kitchens, Utilities, and Maintenance Spaces Outward—making them Visible and Shared. Informed by the Adaptable Nature of Fondas and Roof-on-roof Constructions, the Design Proposes Storefront Housing that Supports Flexible Domestic and Commercial Uses. By Exposing Infrastructure and Embracing Informality, “Cover to Cover” Treats Visibility Not as Spectacle but as a Means to Redistribute Access, Dignity, and Support for Everyday Economies.

Front and Back of House: Visibility as Infrastructure

The Spatial Divide Between Front of House and Back of House is Evident Across Markets, Homes, and Streets. In the Market, Public-facing Dining Stalls Are Sharply Separated From Labor-intensive Prep Areas—reinforcing a Hierarchy Between What is Seen and What Sustains. This Drawing Challenges That Division, Proposing a Model Where Kitchens and Utilities Are Made Visible as Shared Infrastructure for Care and Economic Support.

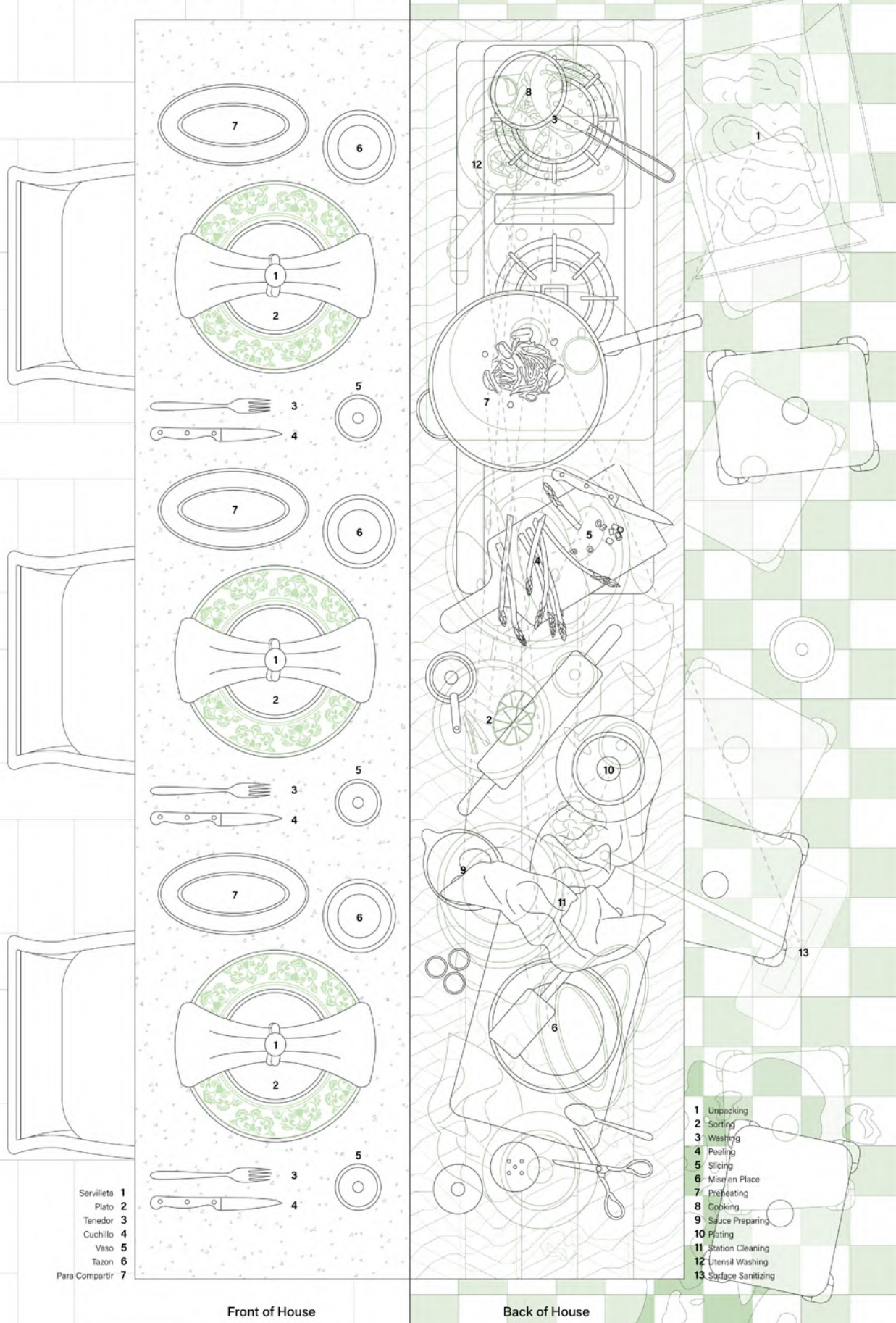


Diagram. What is Seen and What is Hidden?

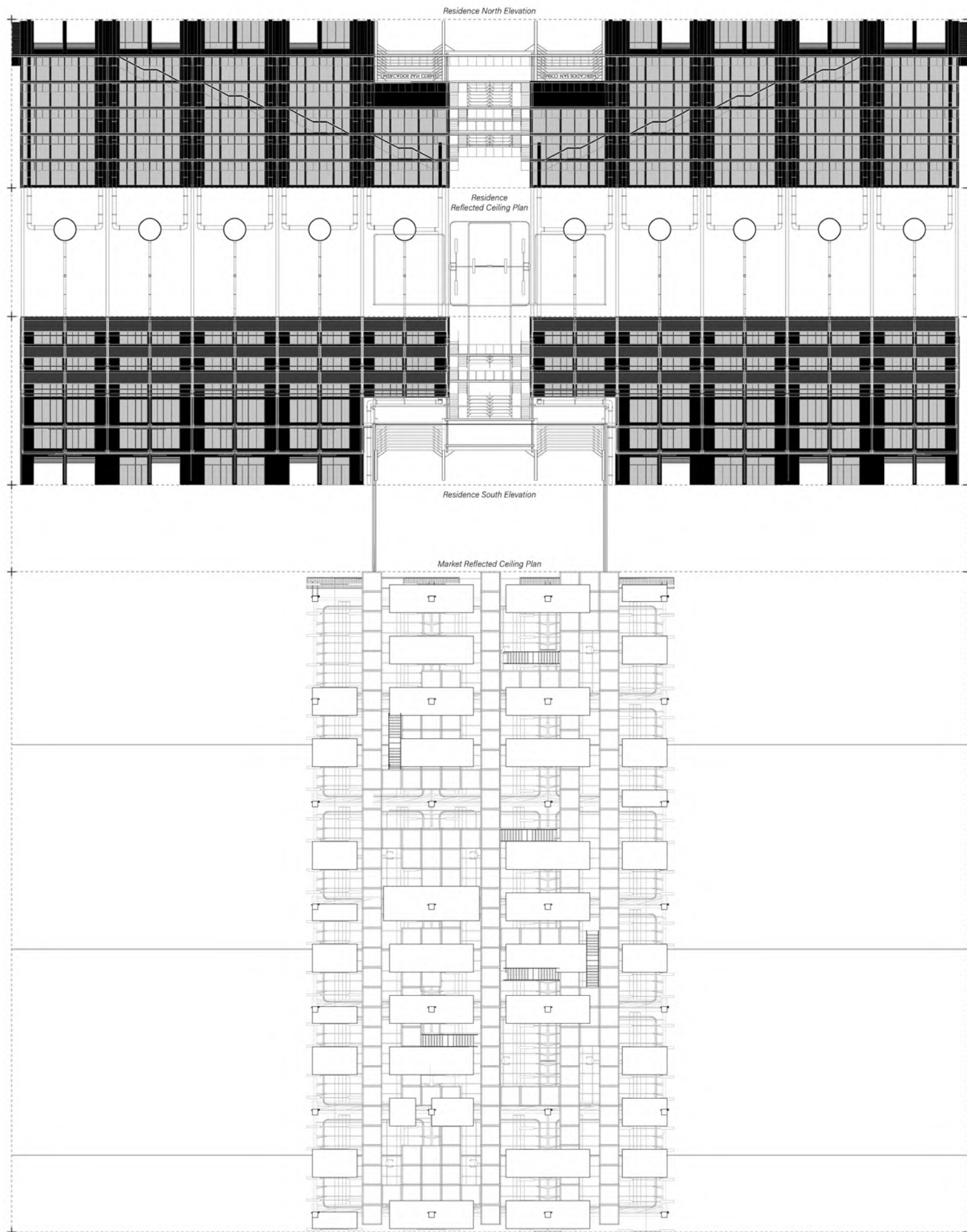
Kitchen in Mexico City: Domestic Labor in Public View

In and Around Mercado De San Cosme, Kitchens Are Often Placed at the Front of Fondas—converted Garages That Function as Both Home and Business. These Spaces Reveal a Culture of Adaptation, Where Makeshift Roofs and Open Facades Expose Stoves, Tables, and Family Routines. The Kitchen Emerges Not as a Hidden Space of Care, but as a Visible and Vital Engine of the Local Economy.



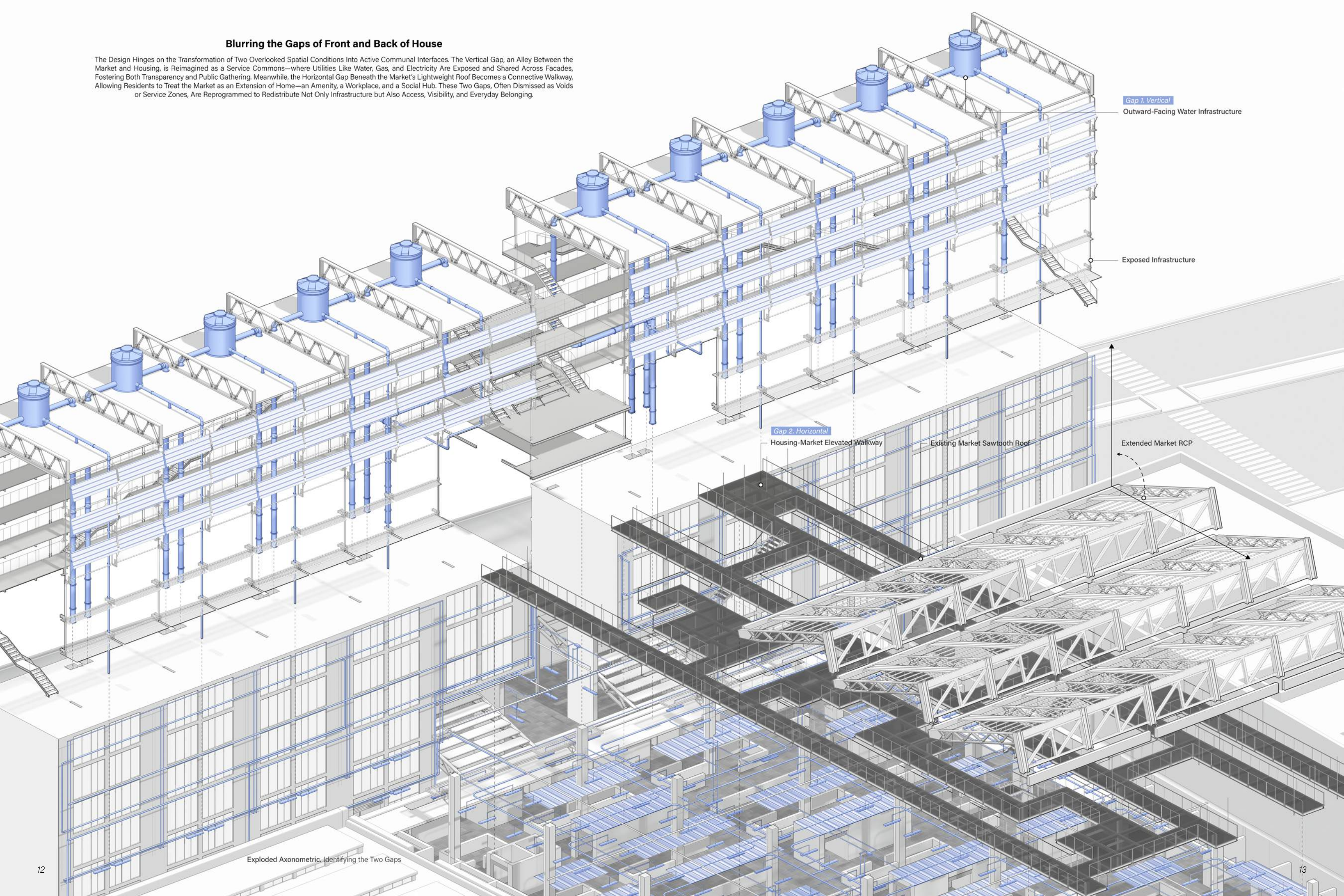
Making Infrastructure Visible: Redistributing Visibility

Past Observation Questions: What Happens if the Kitchen, the Labor, is No Longer Hidden but Brought Forward? What if the Space of Care and Sustenance Becomes Public Again, Not as Spectacle, but as a Shared Resource? This Project Imagines How Housing Could Engage in the Same Logic as the Fondas, Not as a Sealed-off Domestic Block, but as an Adaptive System. Thus, it Introduces a Hybrid Storefront Housing in Front of an Existing Market, that Provides Extended Economic Opportunities to Working-class Residents, Market Vendors, and Street Vendors.



Blurring the Gaps of Front and Back of House

The Design Hinges on the Transformation of Two Overlooked Spatial Conditions Into Active Communal Interfaces. The Vertical Gap, an Alley Between the Market and Housing, is Reimagined as a Service Commons—where Utilities Like Water, Gas, and Electricity Are Exposed and Shared Across Facades, Fostering Both Transparency and Public Gathering. Meanwhile, the Horizontal Gap Beneath the Market's Lightweight Roof Becomes a Connective Walkway, Allowing Residents to Treat the Market as an Extension of Home—an Amenity, a Workplace, and a Social Hub. These Two Gaps, Often Dismissed as Voids or Service Zones, Are Reprogrammed to Redistribute Not Only Infrastructure but Also Access, Visibility, and Everyday Belonging.



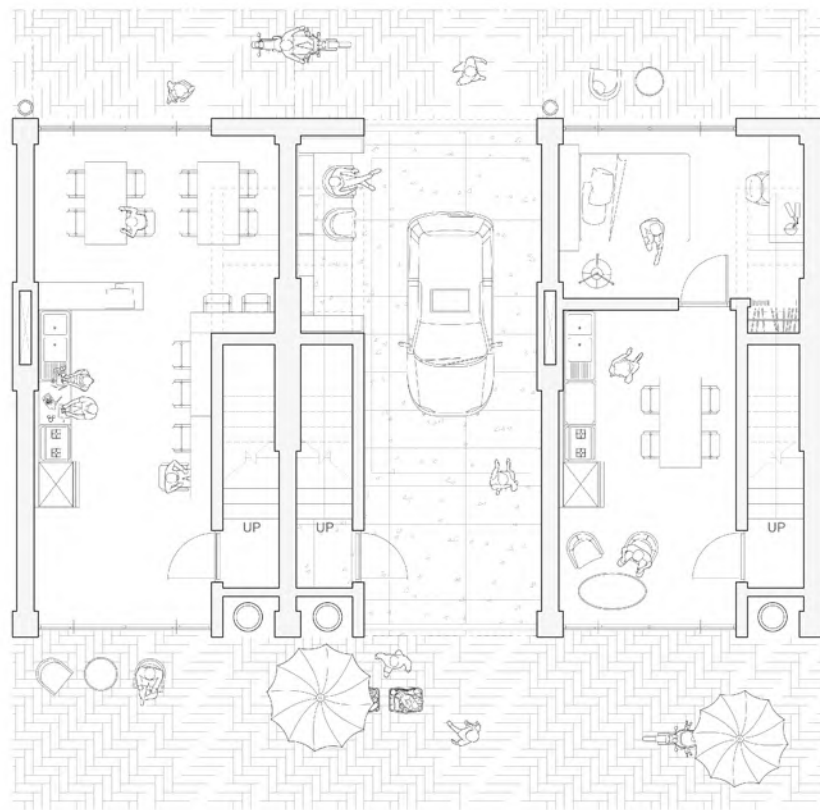
Exploded Axonometric, Identifying the Two Gaps



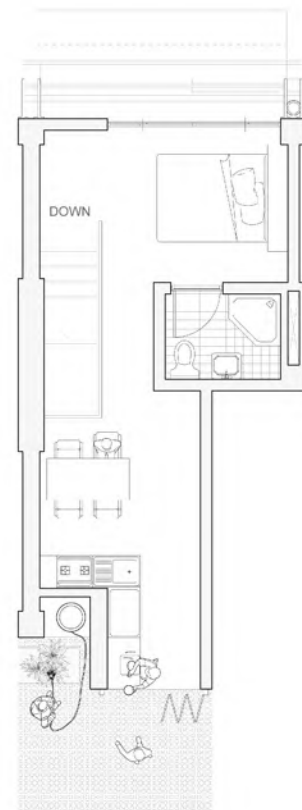
Housing-Market Intersection Perspective

01. New Storefront Housing for Extended Economic Opportunities

The Ground Floor Residential Units Are Not Conceived as a Fixed Program, but Follows the Logic of the Transformative Nature of Fondas, Initially Planned to Be a Garage, but Can Be Rented Out or Converted Into a Part of Family Business or Be an Additional Bedroom for Larger Families. Outward-facing Exposed Wet Walls and Mechanical Utilities Extended From the Market Redistribute Visibility to Create a New Storefront With Extended Economic Opportunities as Well as Inviting Street Vendors.



Convertible Ground Floor Plan



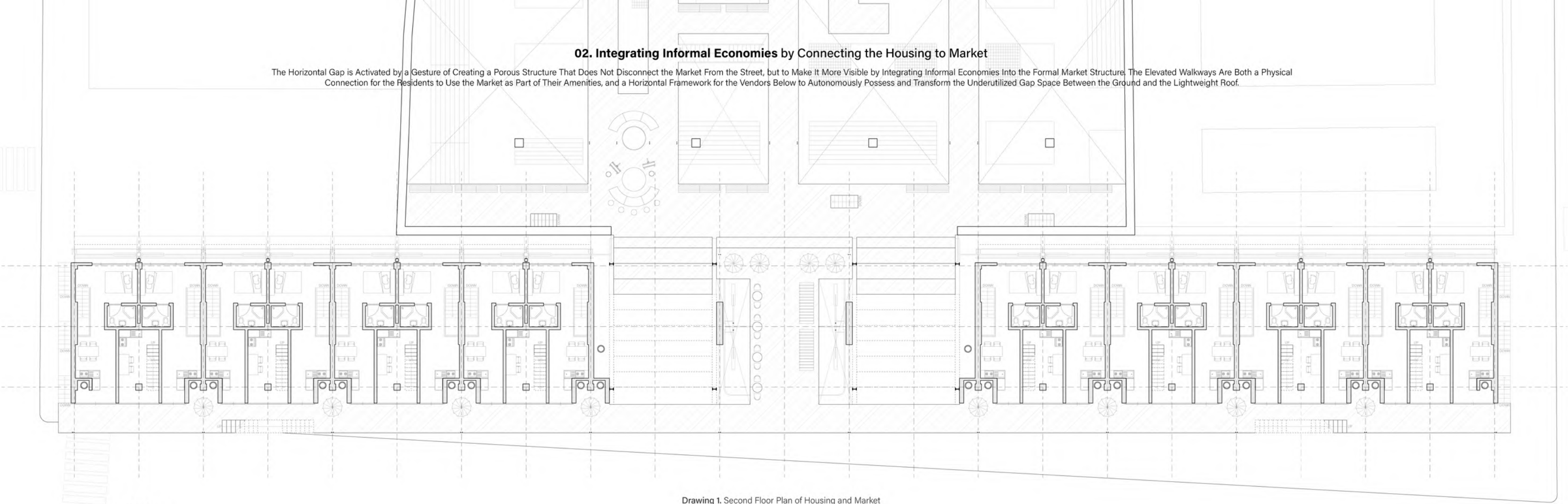
Second Floor Plan



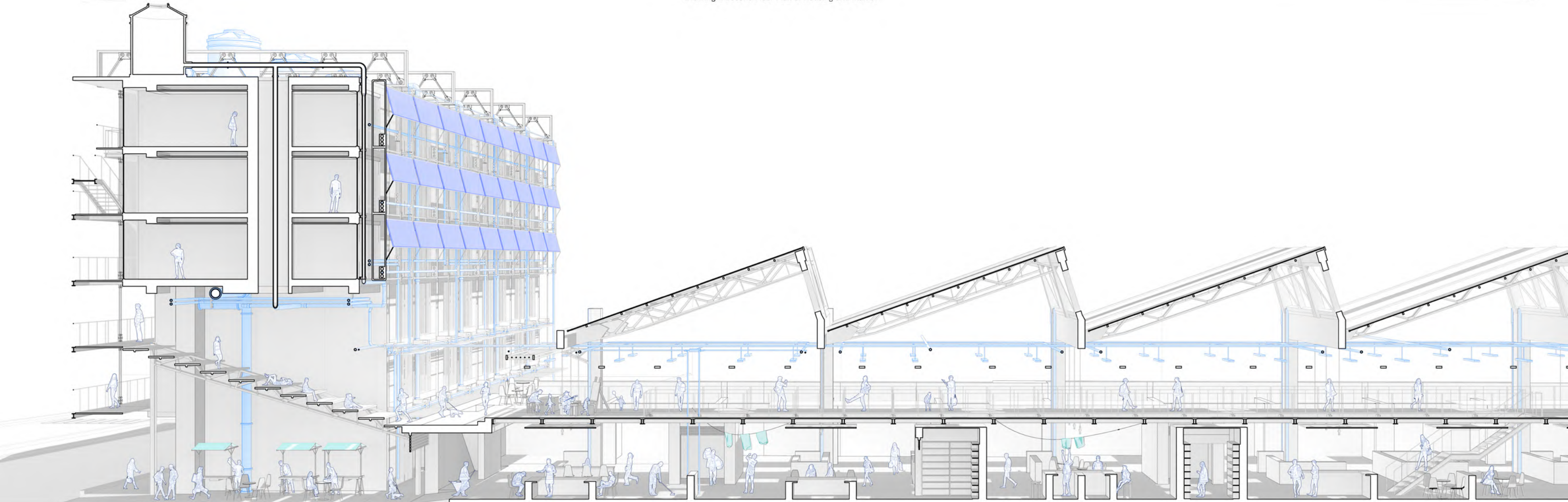
Housing Back Alley Perspective

02. Integrating Informal Economies by Connecting the Housing to Market

The Horizontal Gap is Activated by a Gesture of Creating a Porous Structure That Does Not Disconnect the Market From the Street, but to Make It More Visible by Integrating Informal Economies Into the Formal Market Structure. The Elevated Walkways Are Both a Physical Connection for the Residents to Use the Market as Part of Their Amenities, and a Horizontal Framework for the Vendors Below to Autonomously Possess and Transform the Underutilized Gap Space Between the Ground and the Lightweight Roof.



Drawing 1. Second Floor Plan of Housing and Market



Drawing 2. Key Section Perspective

02 Migrating Books and Bodies

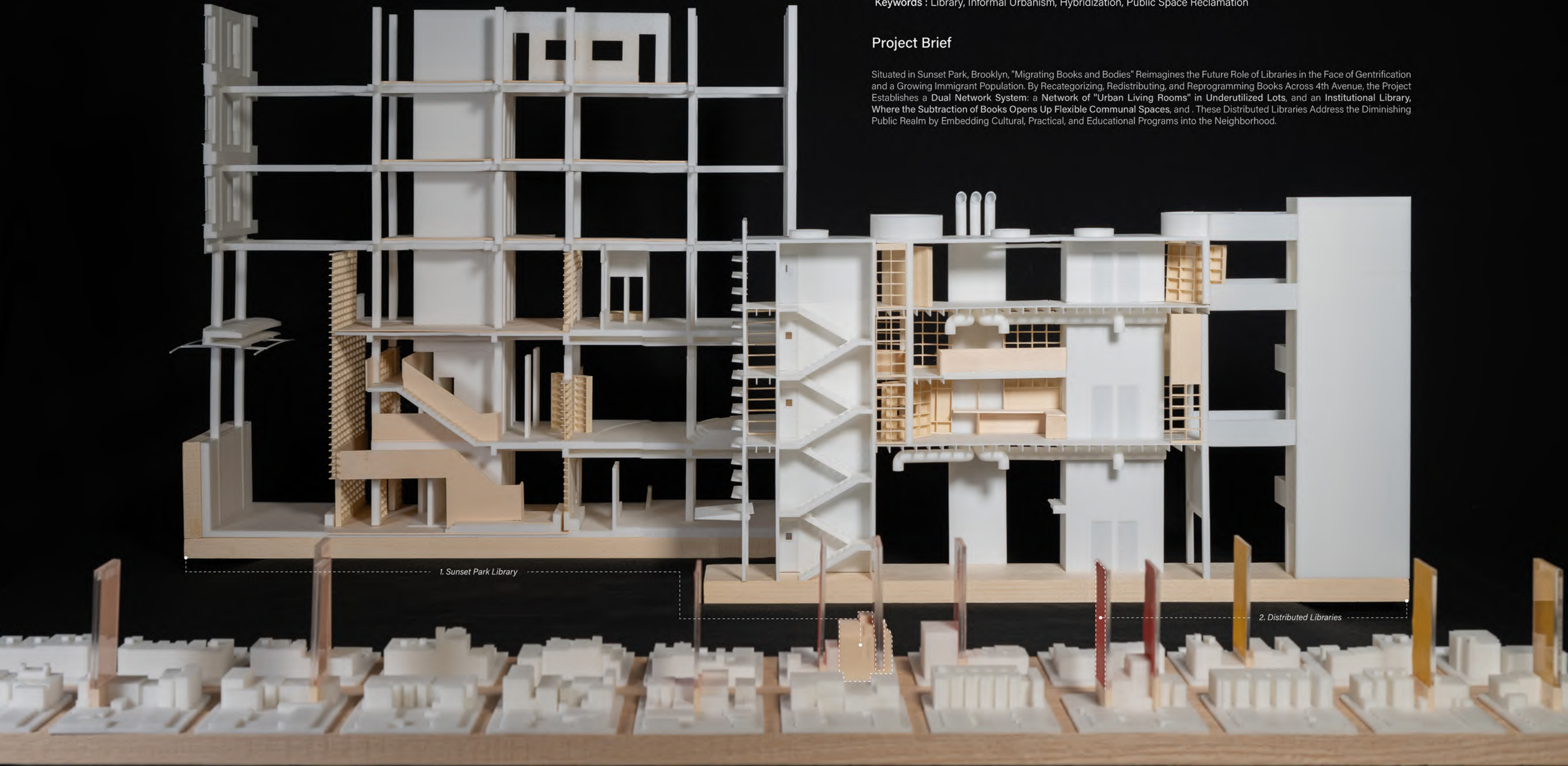
Migrating Climates in the Immigrant City

Project - GSAPP Advanced V Studio

Period : 3rd Year, Fall 2024
Type : Distributed Library Project
Category : Academic (Collaboration with Xinyan He)
Instructor (Coordinator) : Phu Hoang (Mario Gooden)
Keywords : Library, Informal Urbanism, Hybridization, Public Space Reclamation

Project Brief

Situated in Sunset Park, Brooklyn, "Migrating Books and Bodies" Reimagines the Future Role of Libraries in the Face of Gentrification and a Growing Immigrant Population. By Recategorizing, Redistributing, and Reprogramming Books Across 4th Avenue, the Project Establishes a Dual Network System: a Network of "Urban Living Rooms" in Underutilized Lots, and an Institutional Library, Where the Subtraction of Books Opens Up Flexible Communal Spaces, and . These Distributed Libraries Address the Diminishing Public Realm by Embedding Cultural, Practical, and Educational Programs into the Neighborhood.

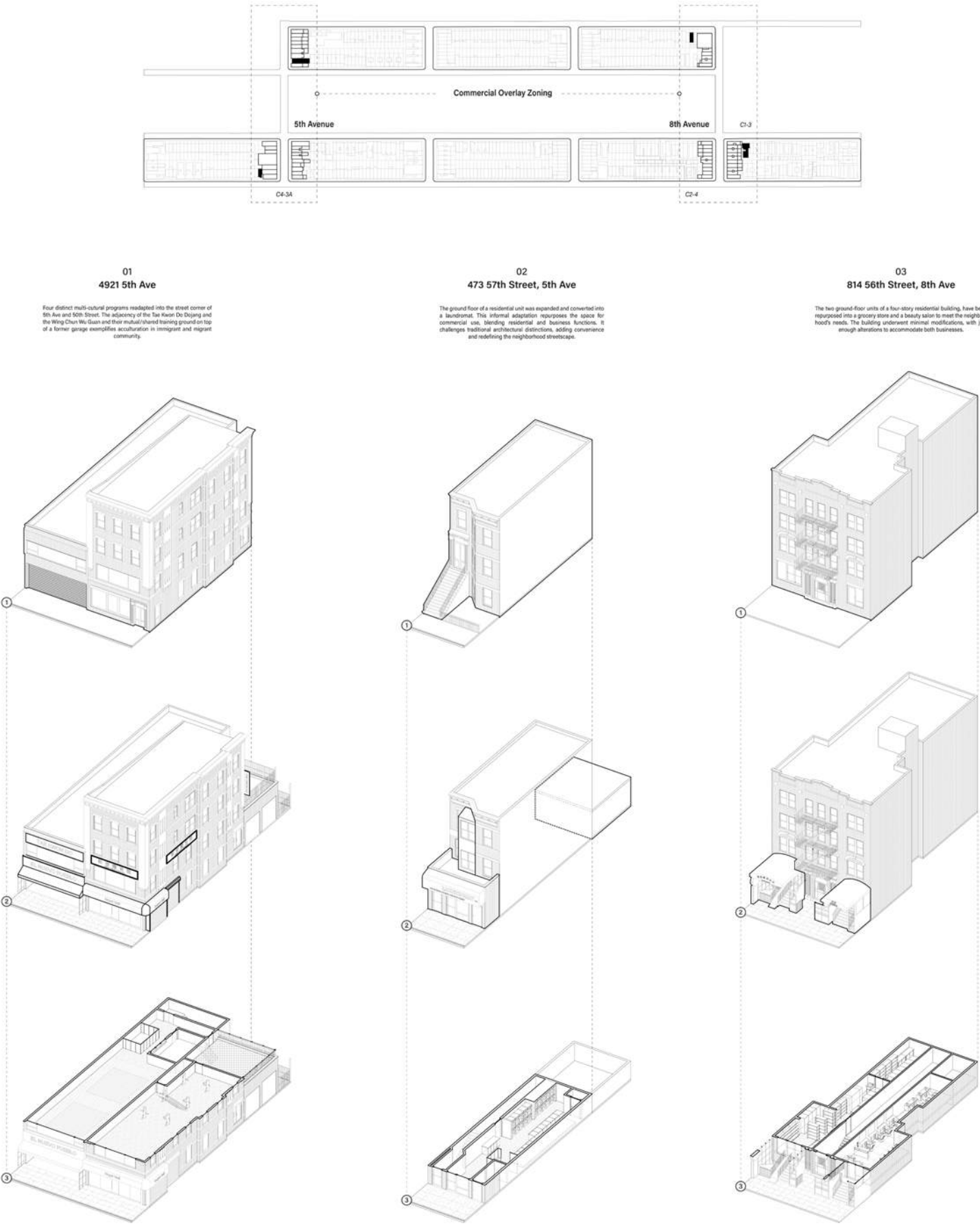


3. Master Plan Model of 4th Avenue. Library Networks in Underutilized Empty Lots

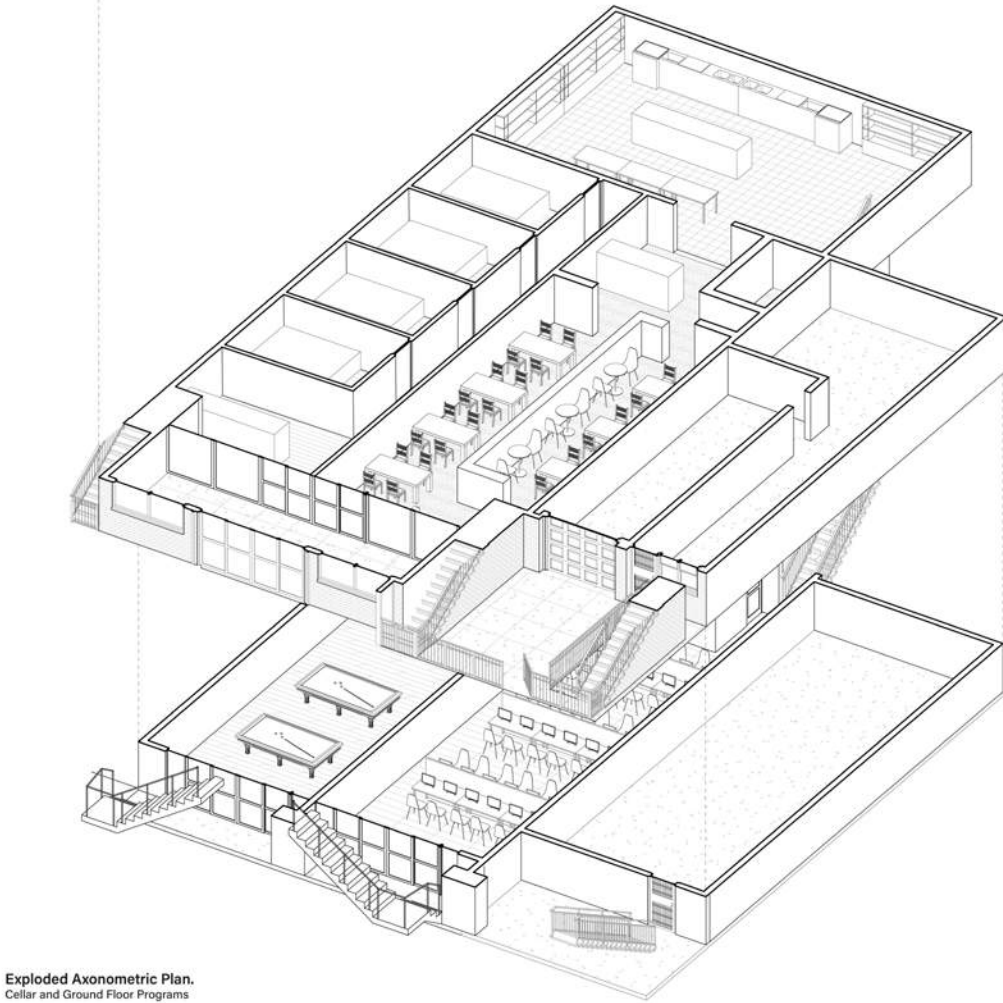
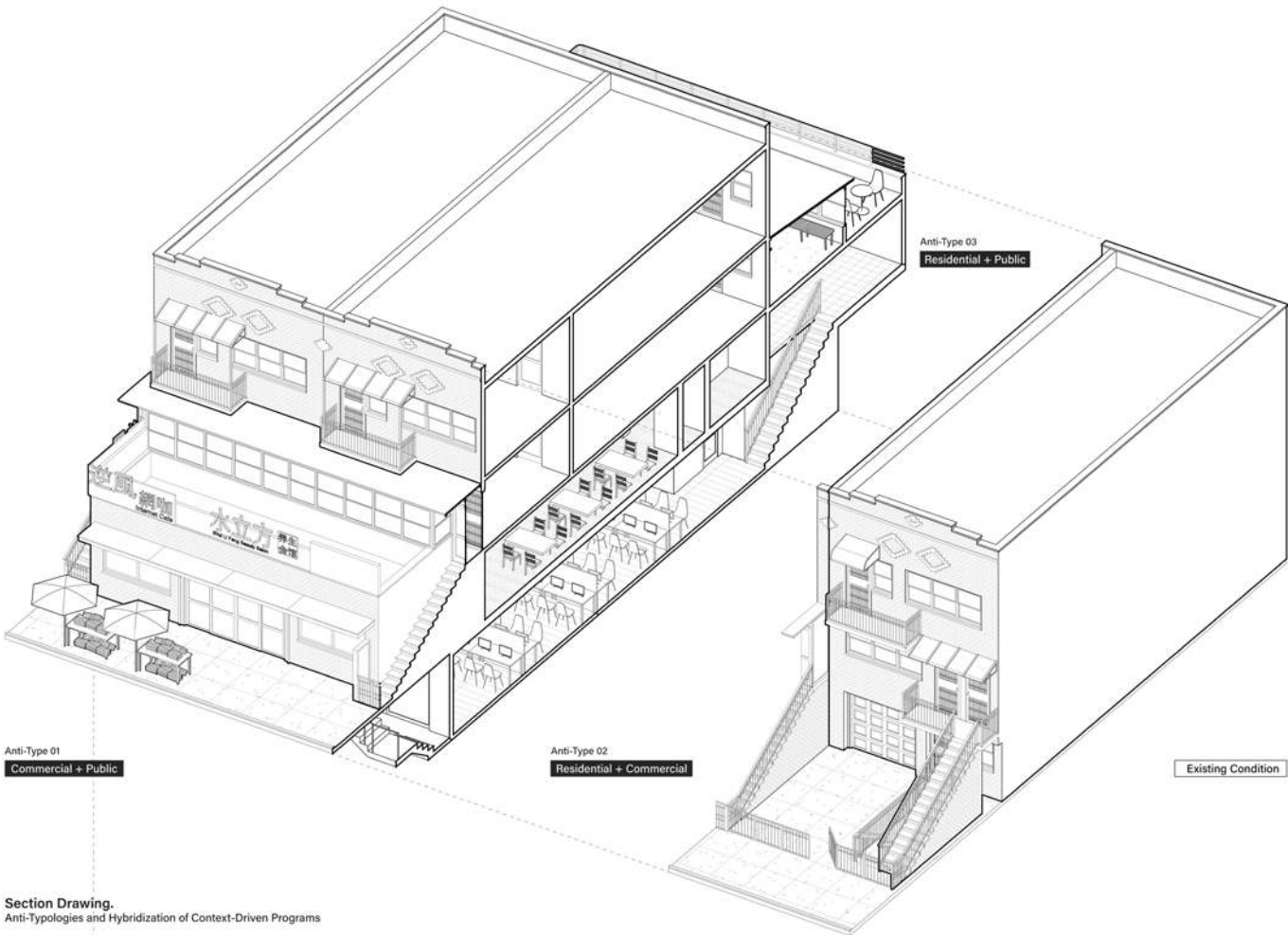
Types to Anti-Types : Informal Urbanism in Sunset Park

In Architecture, Typology Traditionally Organizes Spaces Into Distinct Categories—Residential, Commercial, and Public. However, in Sunset Park, these Categories Dissolve Under the Pressures of Immigration, Acculturation, and Economic Necessity, Recategorizing the Neighborhood Into a Dynamic Anti-typology. Here, Rigid Zoning Informally Merges Commerce, Residence, and Public Life, Reflecting the Evolving Needs of a Diverse, Migrant-rich Community. Immigrant Experiences, Shaped by the Vibrant Streetscapes, Storefronts, and Markets They Inhabit, Challenge the Formal Settings of Traditional Public Institutions Like Libraries, With Their Static Grid Layouts, Designated Sitings, Sightlines of Authority, and Policies.

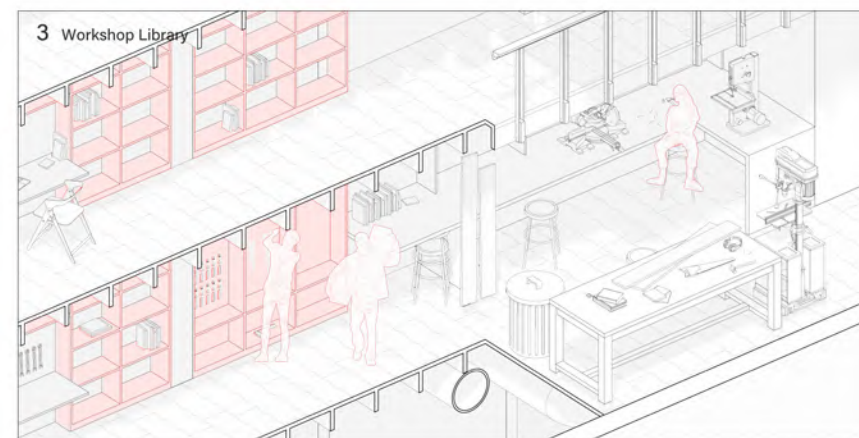
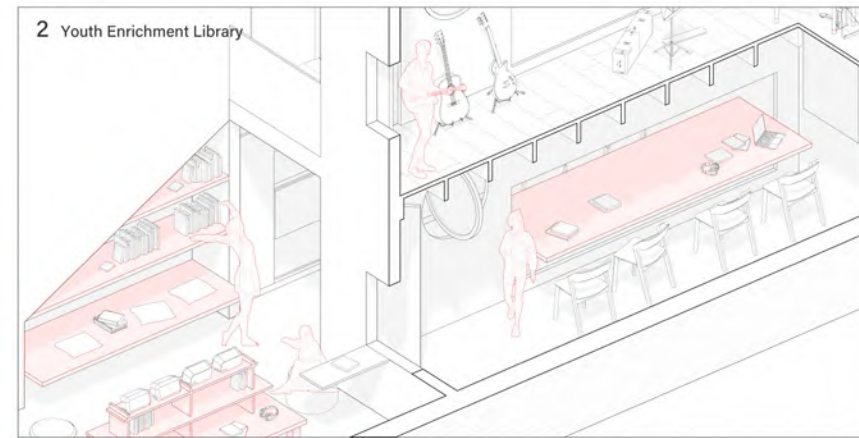
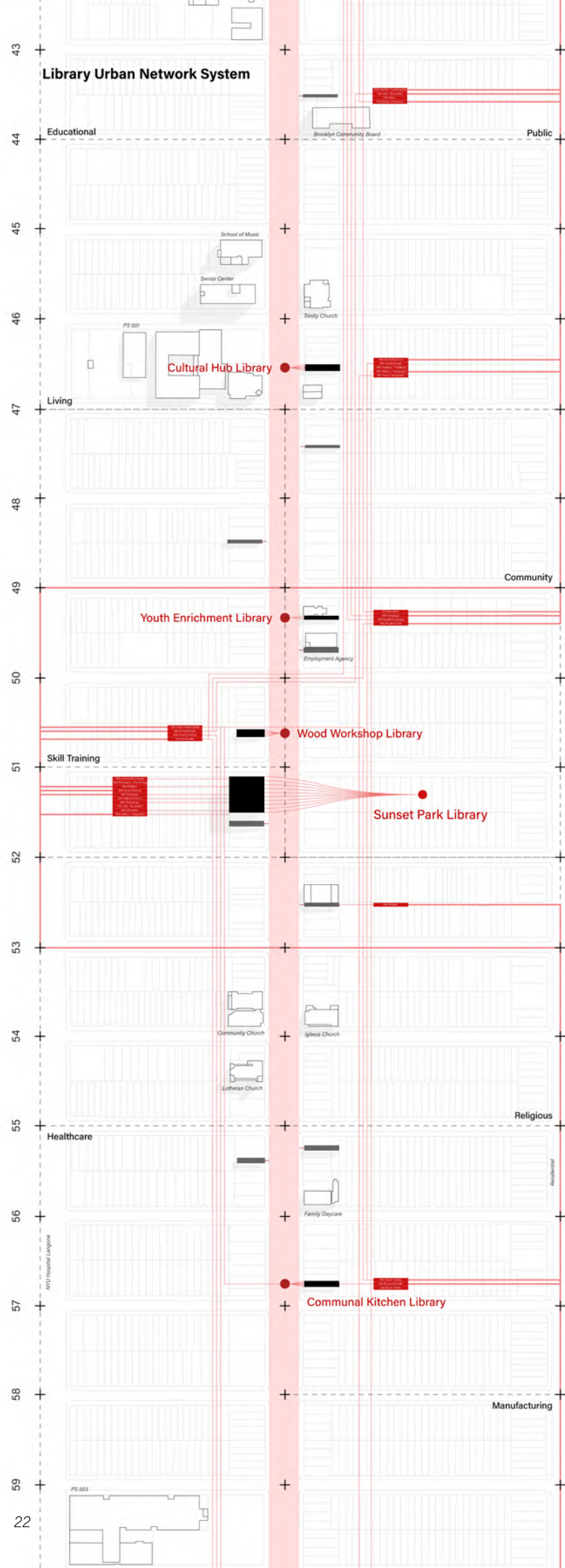
Drawing 1. Zoning Map and Commercial-Residential Hybridizations



Drawing 2. Informal Adaptation of Buildings in the Commercial Overlay Zone



Drawing 3. Merge of Commercial, Public, and Residential Programs



Part 1.

Re-Distributing Books to Urban Living Room Libraries

Re-Categorizing the Dewey Decimal System

The Traditional Dewey Decimal System is Reimagined Into Four Categories- Cultural Exchange, Skill Training, Learning, and Wellness. These Interventions Address the Diminishing Public in a Gentrifying Sunset Park while Redefining "Public" for Immigrant Communities as Spaces that Are Accessible, Dynamic, and Deeply Integrated Into Daily Life.

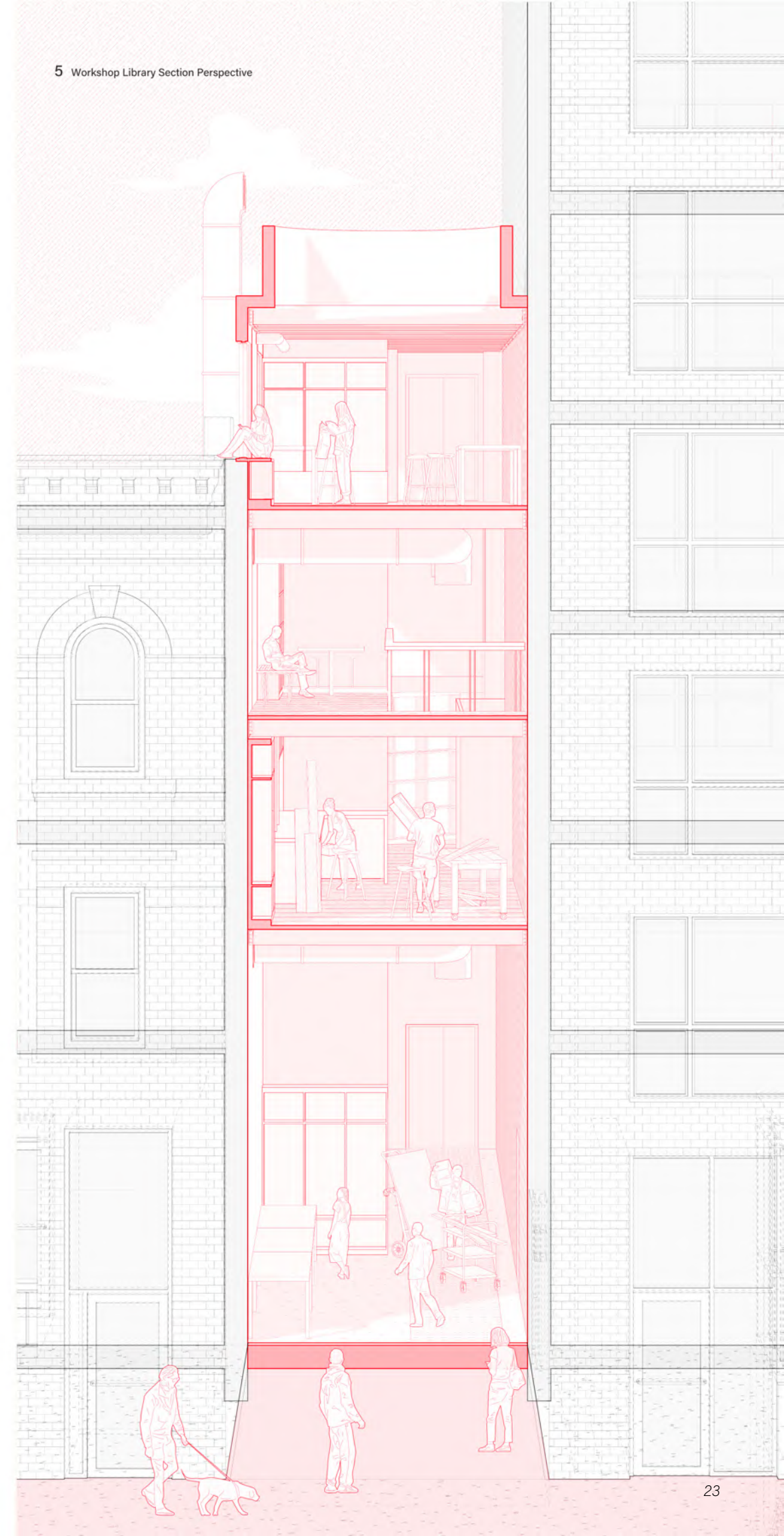
Re-Distributing to Underutilized Narrow Lots

Underutilized Lots, Less Than 17 Feet Wide and Unsuitable for Future Housing Development, Are Reimagined as Urban Living Room Libraries. These Pocket Spaces Extend the Reach of the Sunset Park Library by Redistributing Books Tied to Program Potential, Such as Cookbooks for Communal Kitchens or Skill Guides for Workshops, Embedding Vital Public Resources Into the Neighborhood.

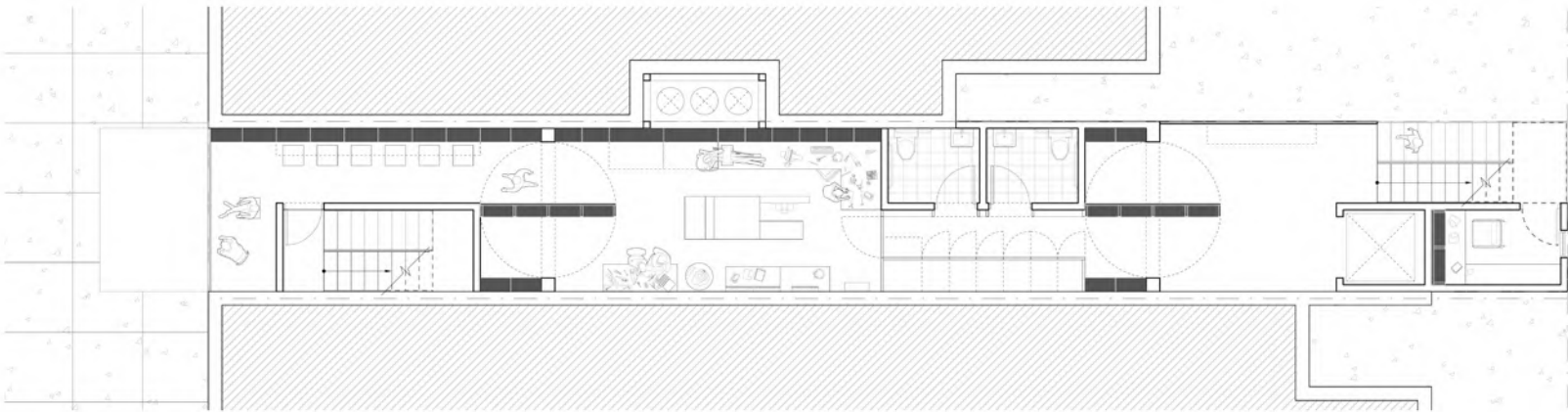
Re-Programmed Hybridized Libraries

Urban Living Room Libraries Are Reprogrammed Into Localized Hubs for Cultural Exchange, Practical Skill Building, and Community Interaction. Each Lot is Activated With Context-Specific Programs Ensuring they Reflect the Neighborhood's Character While Fostering Inclusivity and Resilience Against Gentrification.

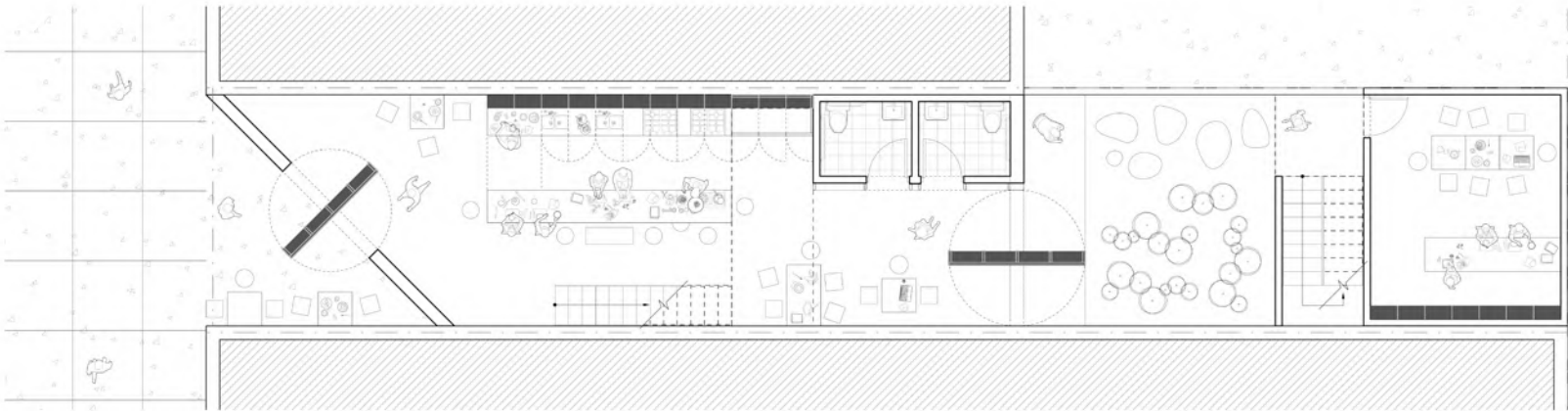
5 Workshop Library Section Perspective



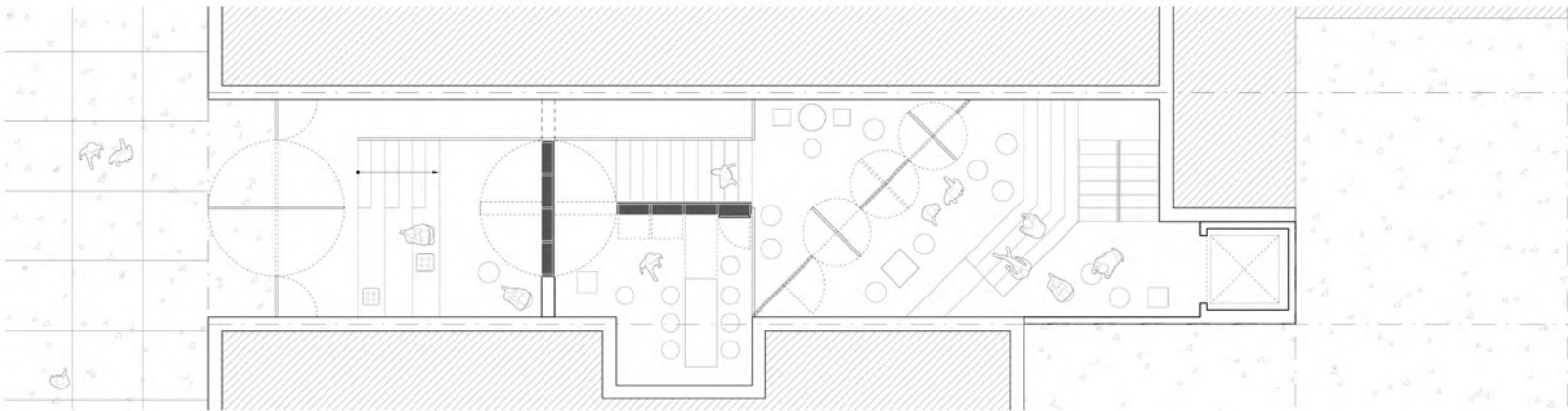
Urban Living Room Library Floor Plans



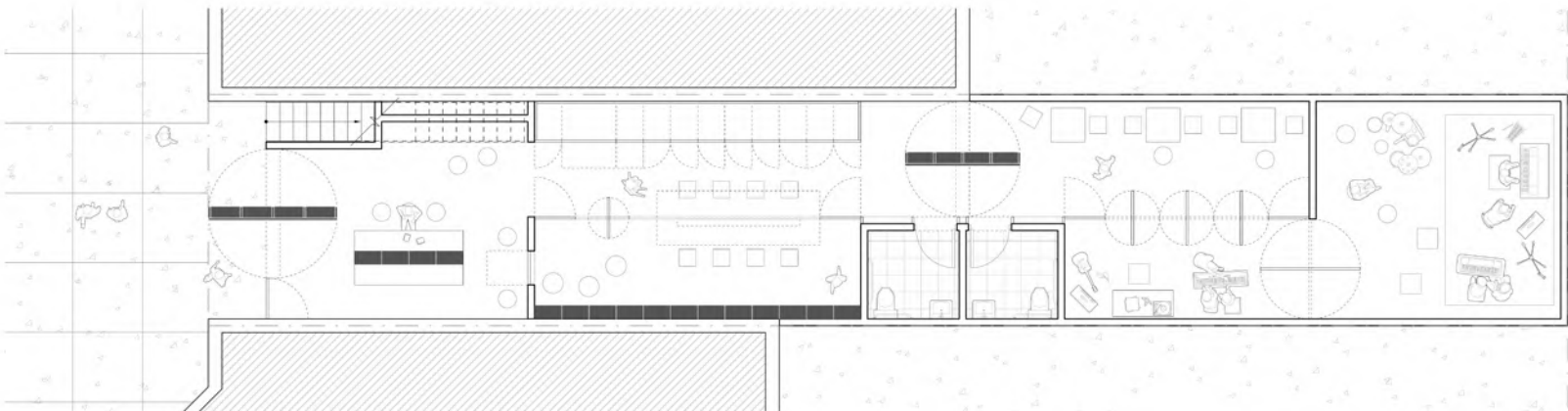
1. Workshop Library Second Floor. Lot BBL 300783750



2. Communal Kitchen Library Ground Floor. Lot BBL 3008390002



3. Cultural Hub Library Ground Floor. Lot BBL 3007900042



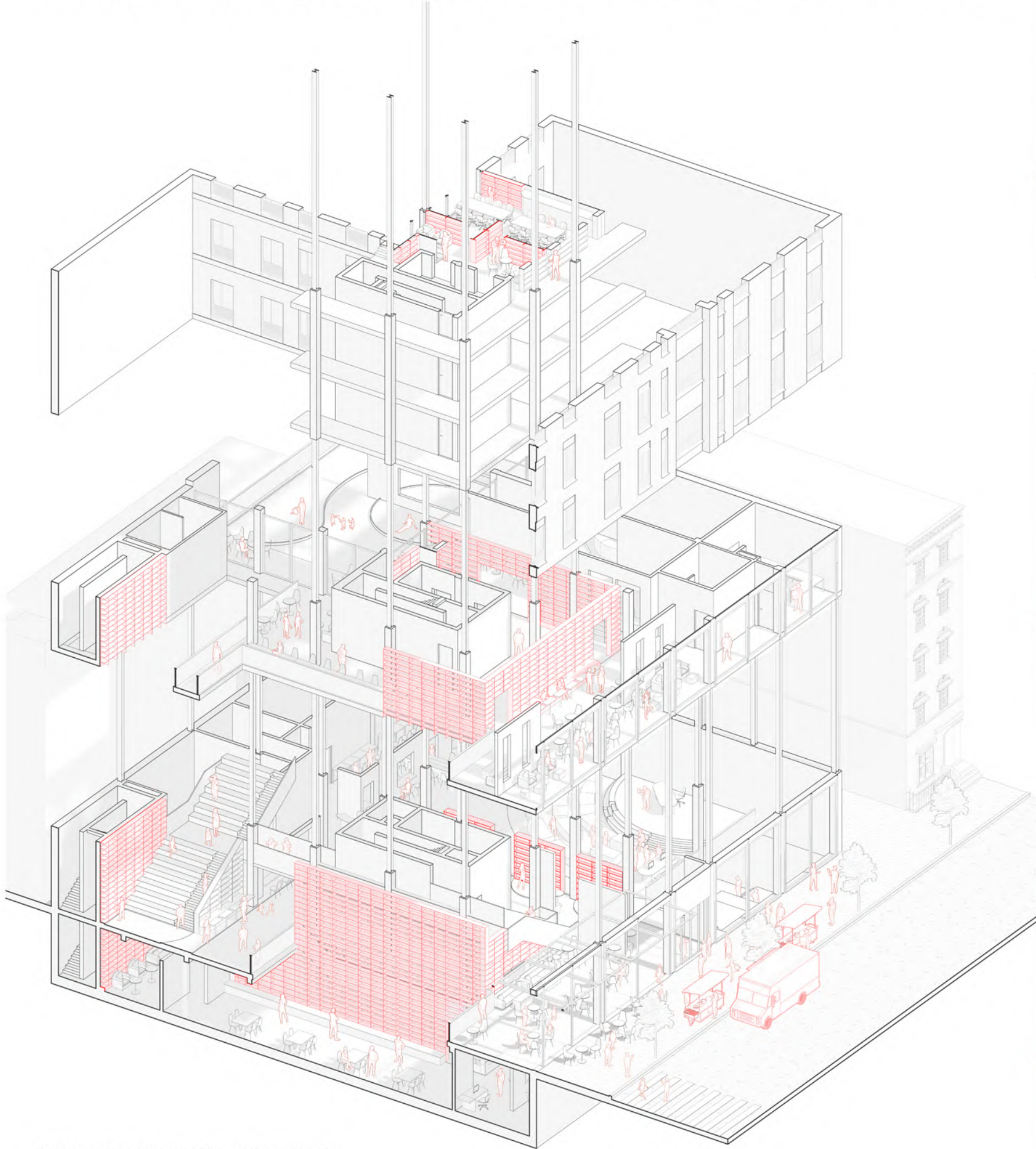
4. Youth Enrichment Library Ground Floor. Lot BBL 3007560004



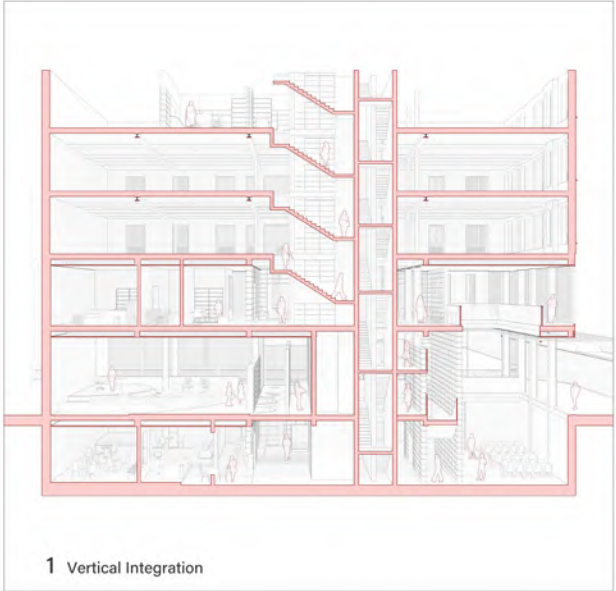
5 Workshop Library Perspective

Part 2. Subtraction of Books and Insertion of Public in Sunset Park Library

Centralizing Books Around the Core, the Reimagined Sunset Park Library Opens Its Surrounding Spaces for Flexible, Community-focused Programming. With Fewer Books Housed Due to the Redistribution to Urban Living Room Libraries Throughout 4th Avenue, the Library Evolves Into a Dynamic Civic Hub That Supports Public Gathering and Interaction. Books on Foundational Resources for Immigrants, Such as Language Learning, Citizenship, and Community Support Remains, Aligning With Programs That Directly Address Their Needs. This Adaptive Design Transforms the Library Into Public Commons.



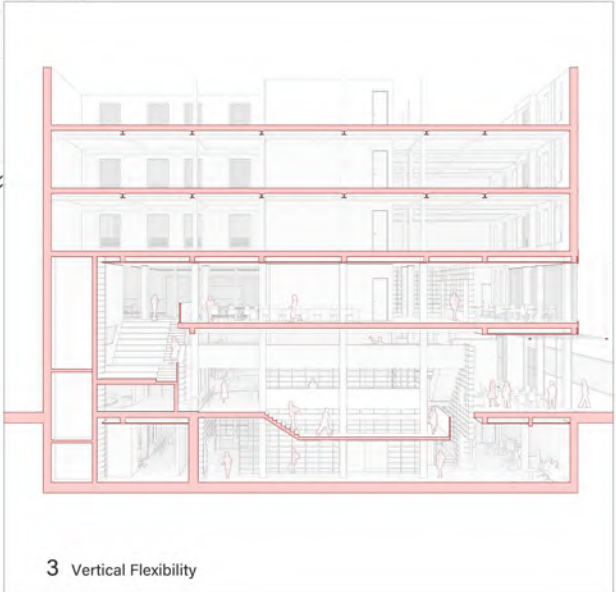
Drawing. Re-Imagined Sunset Park Library with Centralized Books



1 Vertical Integration



2 Vertical Continuity

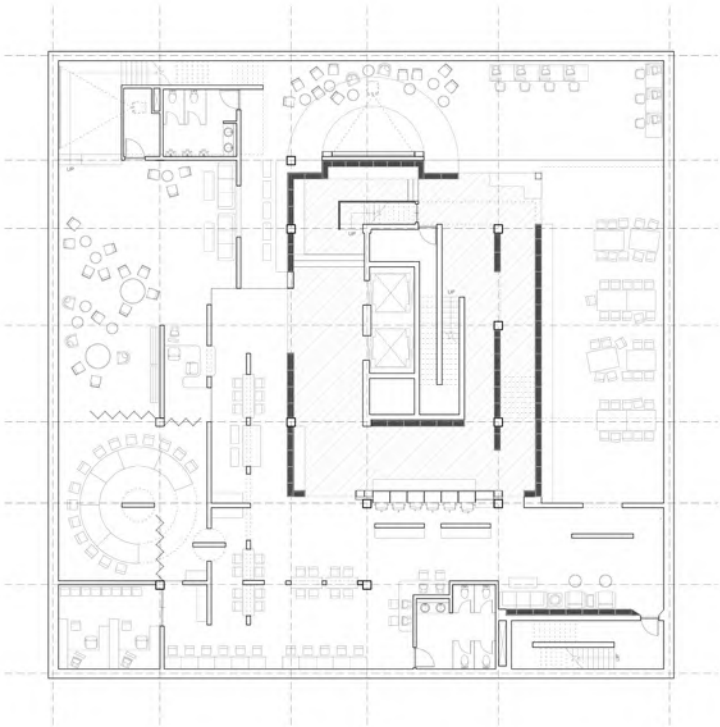


3 Vertical Flexibility

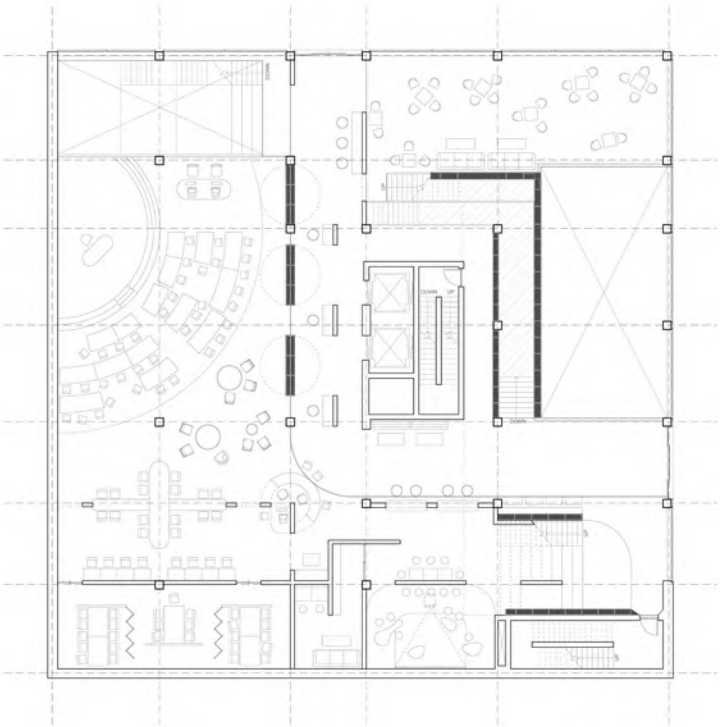


4 Sunset Park Library Perspective

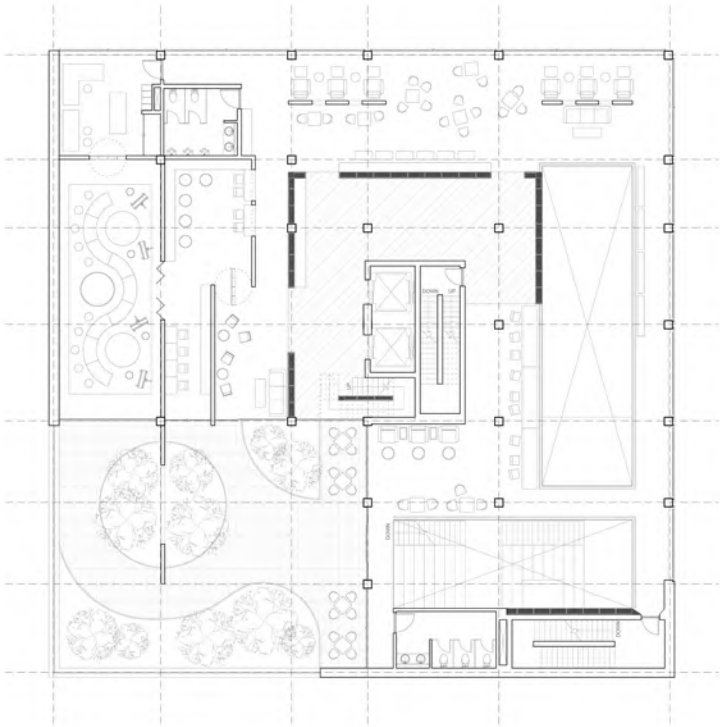
Sunset Park Library Floor Plan



1. Basement. Foundational / Academic Resources



2. Ground Floor. Community / Local and Current Awareness Resources



3. Second Floor. Leisure and Personal Enrichment Resources



4. Typical Residential Floor. Community Reading Rooms



5 Sunset Park Library Perspective

03

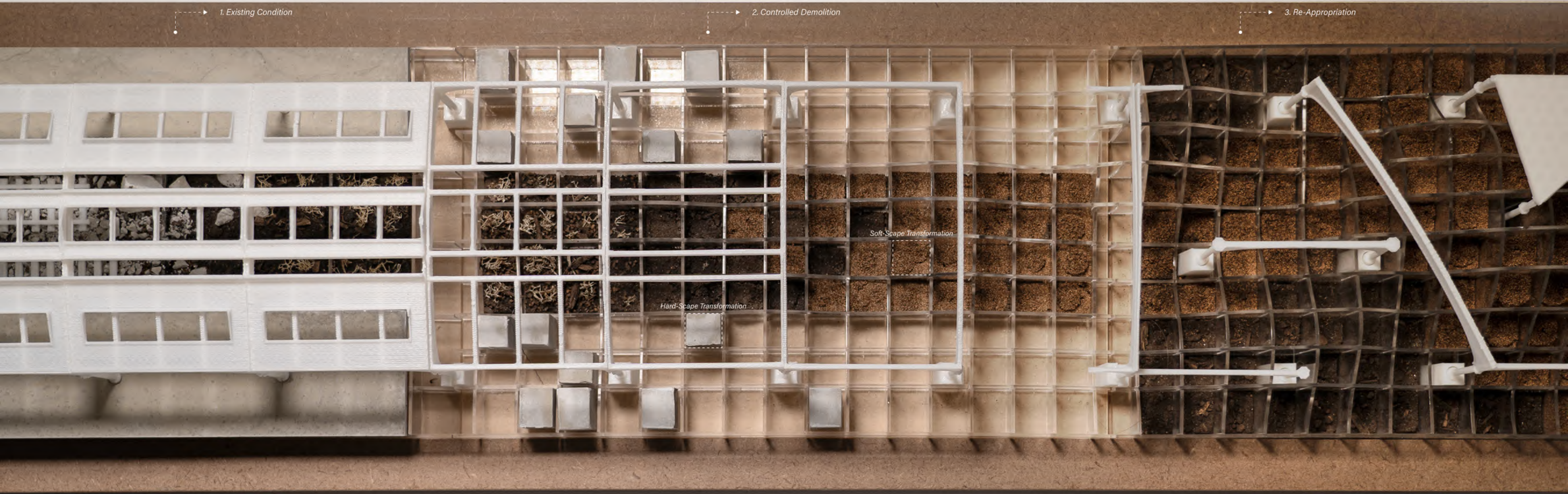
Contingency Plan

Contested Territories, and Landscape of Deeds

Concept Model Photo : Representation of the Incremental Rehabilitation of the Train Shed

Project - GSAPP Advanced IV Studio Wild/Willed

Period : 2nd Year, Spring 2024
Type : Rehabilitation Project
Category : Academic (Collaboration with Xinyan He)
Instructor (Coordinator) : Mimi Hoang (Ziad Jamaledine)
Keywords : Incremental Rehabilitation, Controlled Demolition, Selective Reinforcement, Recreation



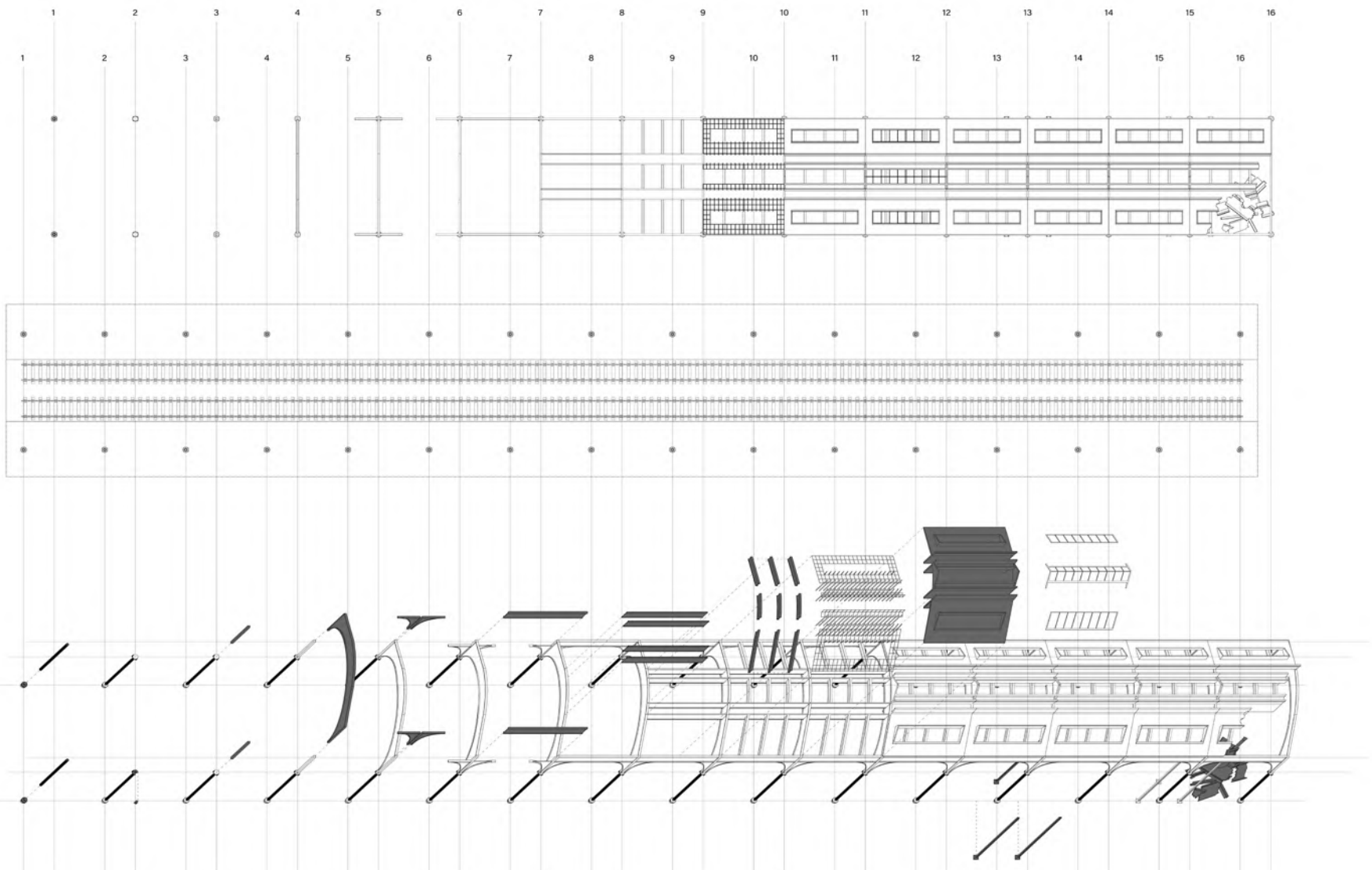
Project Brief

Situated in the Contested Territories between the Wild and Willed, the "Contingency Plan" Emerges as a Proactive Response to the **Inevitable Rise of Sea Levels**, Expected to Ascend Up to 9 feet in the Next Century due to Current Carbon Emissions. The Goal Entails **Incrementally Re-Appropriating the Abandoned Train Shed in Liberty State Park**, Navigating the **Ever-Evolving Landscape with Adaptability** at its Core. The Focus Extends Beyond Mere Physical Restoration, Aiming to Prolong the Life Cycle of Historical Landmarks by Integrating them into the Contested Territories.

Contested Territories in Liberty State Park : Abandoned Human Endeavor and Natural Resurgence

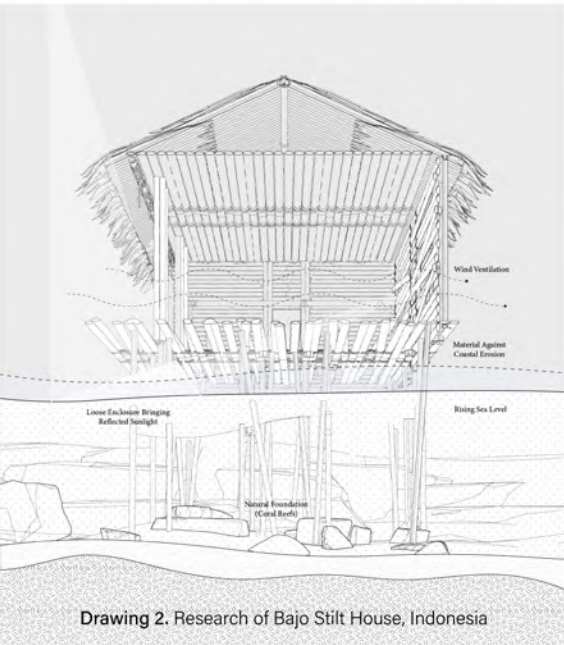
Contested Territories of Human Endeavor and Natural Resurgence can be Observed in the Liberty State Park's Abandoned Train Shed, Jersey City. The Site Encapsulates the Ebb and Flow Between the Forces of Nature, Human Occupation, Invention and Technology. The Train Shed, once the Symbol of Transportation Development Throughout the History Stays Abandoned in the Park. Despite the Past Sublime of Human Endeavor, the Abandoned Train Shed is being Wilded by the Nature.

Drawing 1. From Modular Construction to Abandonment

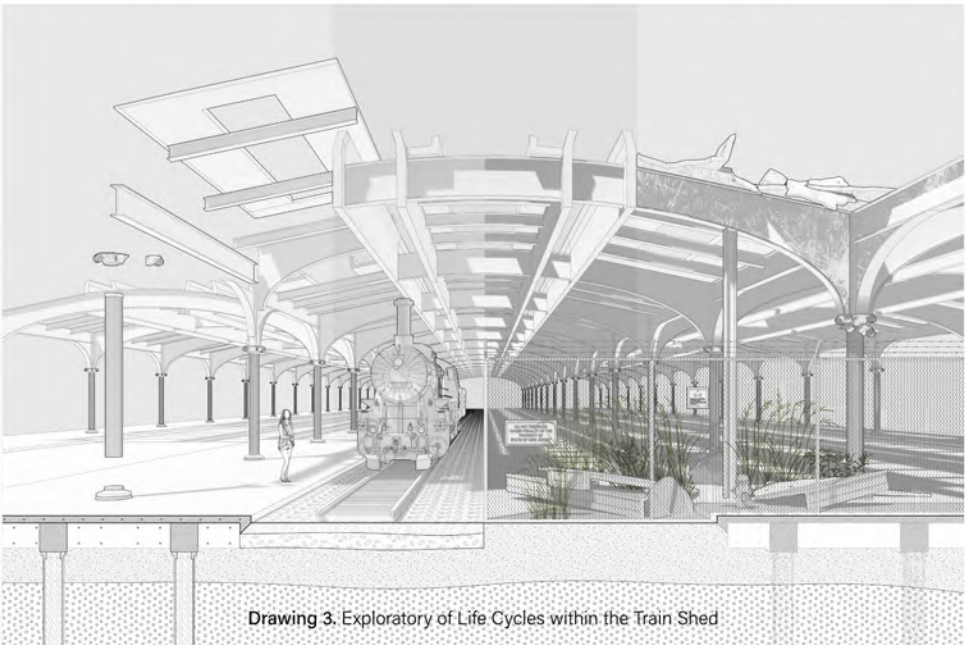


Exploring Adaptability and Life Cycles for Incremental Rehabilitation

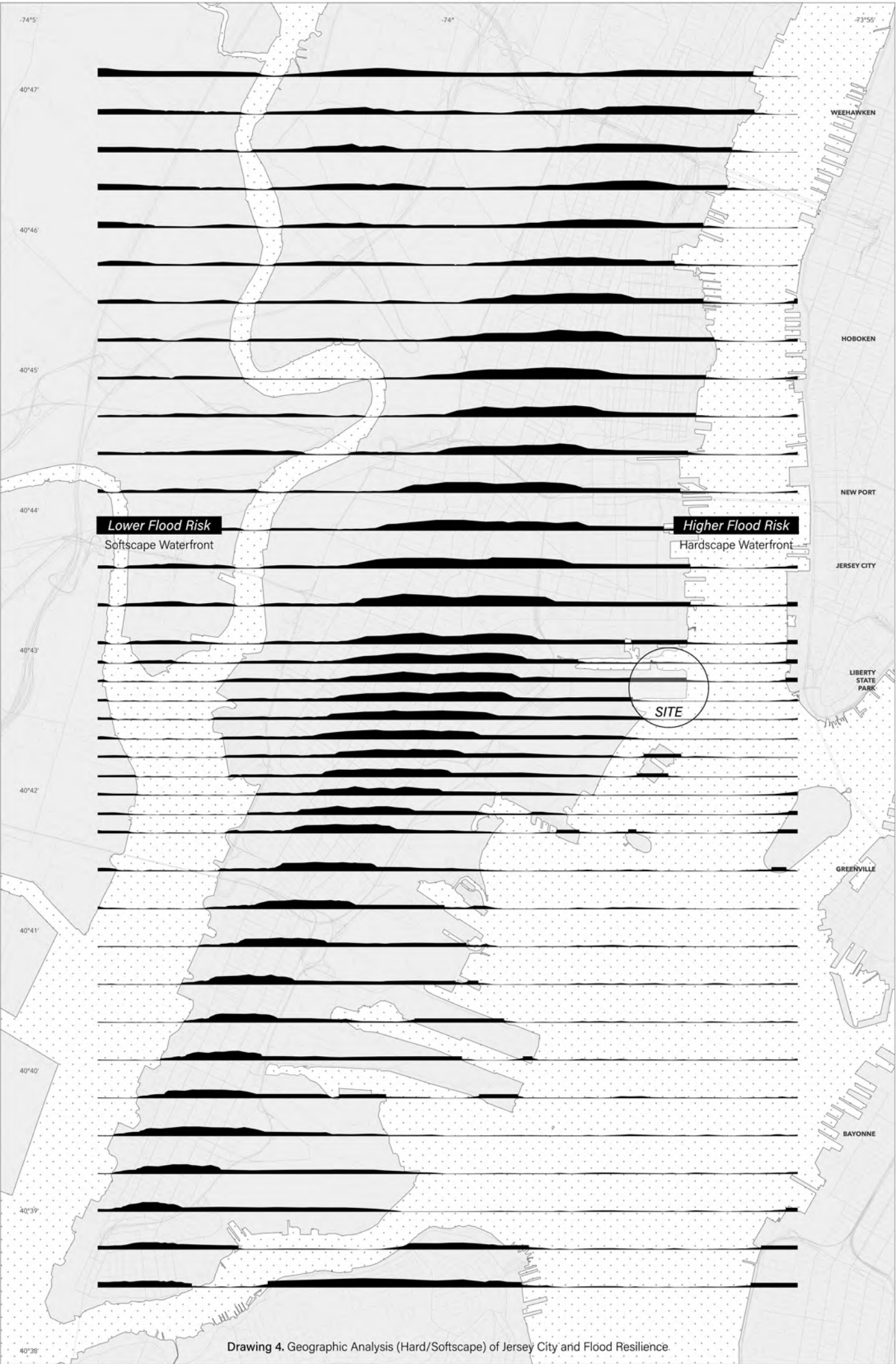
The Goal Entails Incrementally Re-Appropriating the Abandoned Structures, Navigating the Ever-Evolving Landscape with Adaptability as its Core. The Focus Extends Beyond Mere Physical Restoration, Aiming to Prolong the Life Cycle of Historical Landmarks by Integrating them into the Wild. Inspired by the Resilience of the Bajo Stilt Houses in Indonesia, the Project Acknowledges Nature as Vicissitudes.



Drawing 2. Research of Bajo Stilt House, Indonesia



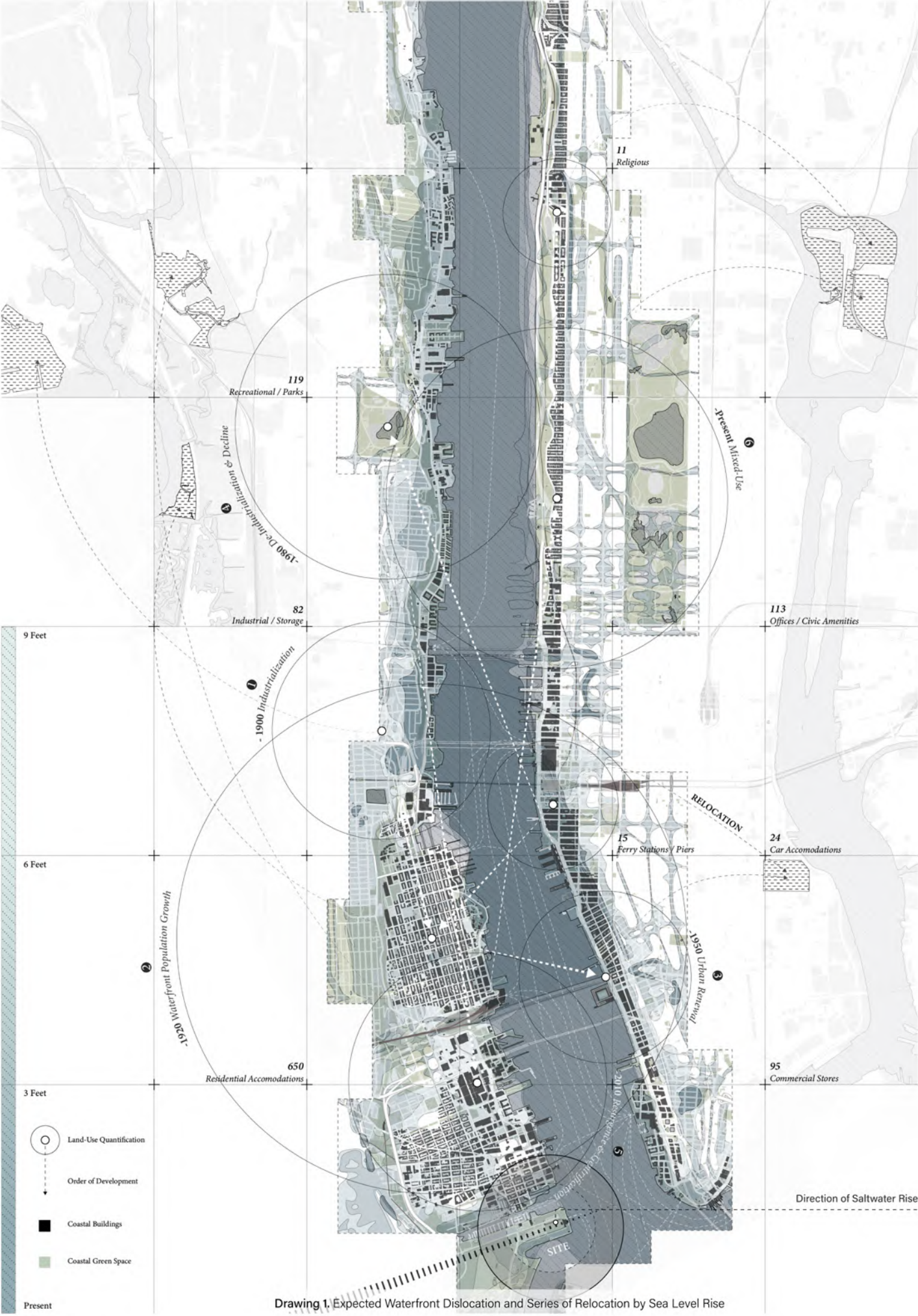
Drawing 3. Exploratory of Life Cycles within the Train Shed



Drawing 4. Geographic Analysis (Hard/Softscape) of Jersey City and Flood Resilience

Expecting Lack of Urban Recreational Facilities by Sea Level Rise

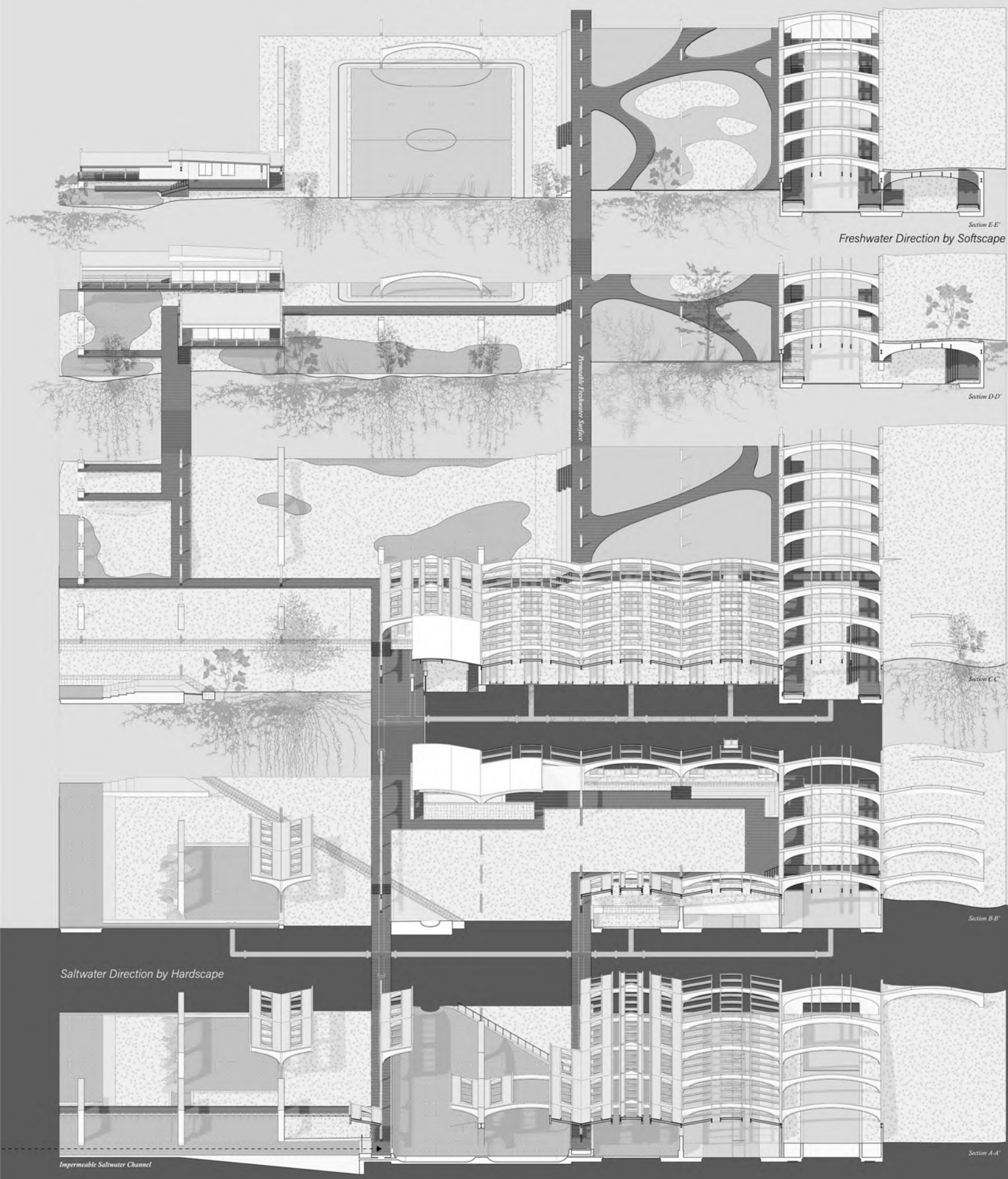
Recognizing Imminent Displacements Due to Sea Level Rise, Particularly Along the Hudson River's Man-Made Hardscapes, a Phased-Conscious Rehabilaition Approach is Proposed, Anticipating the Relocation of Displaced Accommodations to Inland Open Spaces to Address Future Recreational / Open Area Shortages.



Drawing 1. Expected Waterfront Dislocation and Series of Relocation by Sea Level Rise

01. Programming Wetness

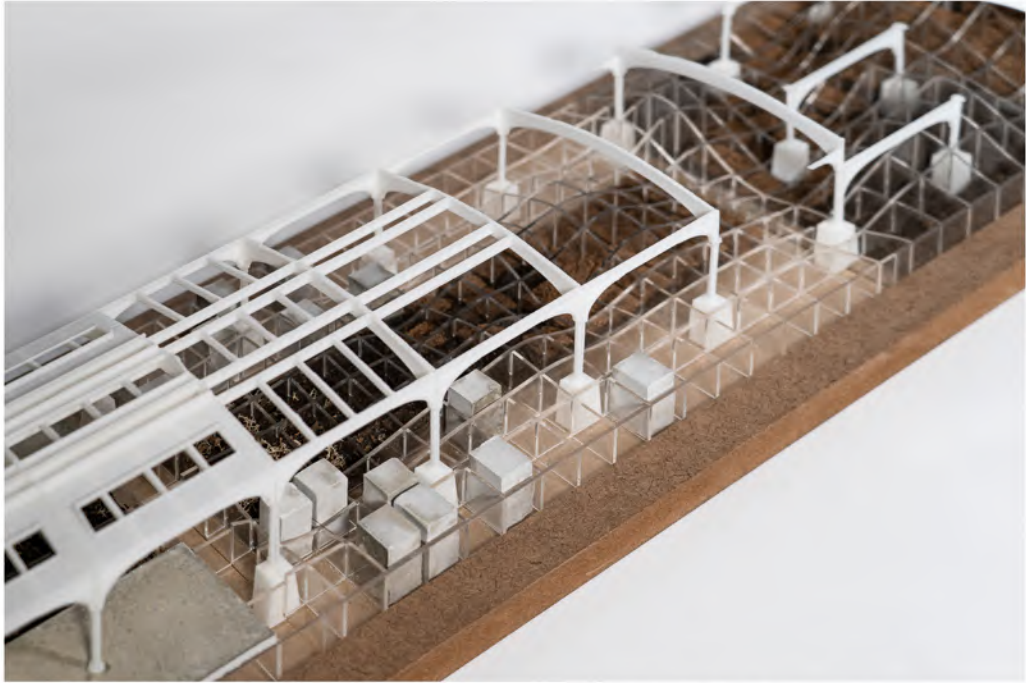
While Preempting the Graudal Sea Level Rise, the Saltwater and the Freshwater are Directed Respectively by Hard/Softscape in order to Create Diverse Recreation Accommodations, Ecosystem Diversities, Estuaries, thereby Extending the Coastline's Life Cycle.



PROGRAMMING WETNESS
Drawing 2. Serial Section Revealing Foundation of Water Treatment

02. Programming Ground Condition

The Realization of the Concept Unfolds Through a Phased Approach to Construction, Guided by Principles of Incremental Rehabilitation and Controlled Intervention. Rather than Embarking on a Single, Monumental Undertaking, the Construction Strategy Progresses in Stages Meticulously Planned to Anticipate the Imminent Submergence of the Site in the Coming Years, thus Allowing for Adaptability to Evolving Conditions. By Encapsulating the Existing Train Shed Structure within Cast Concrete, the Project Endeavor to Preserve its Materiality and Historical Significance while Simultaneously Reinforcing its Structural Integrity to Accommodate Future Use.



Model Photo 1. Conceptual Representation of Incremental Rehabilitation



Model Photo 2. Selective Reinforcement of the Existing

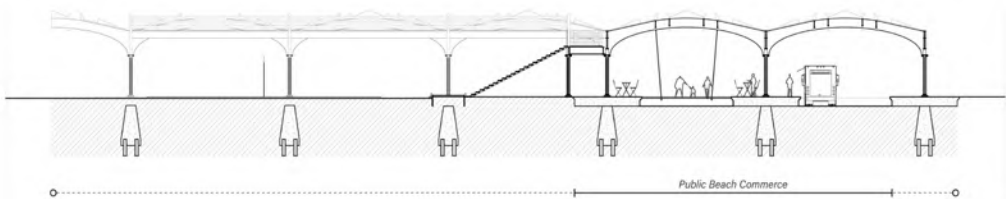


Model Photo 3. Preserving the Historical Image by the Negatives

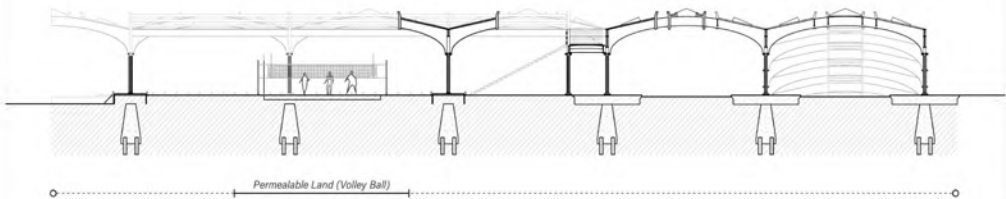
Application of the Programmed Measures

By Introducing Tectonics for Controlled Demolition and Selective Reinforcement, Programmed Ground Conditions Facilitate Land Retreat and the Establishment of New Ground Levels. Programmed Wetness Allows for a Gradual Adaptation to Water, Shaping the Evolving Waterfront Landscape and Extending the Coastline's Life Cycle. The Project Envisions Incremental Construction and Rehabilitation, Enabling the Site to Effectively Respond to Rising Sea Levels and Ensure the Longevity and Relevance of the Intervention.

1. Recreational Program Transformation



2. Land Transformation



3. Preemptive Water Embrace

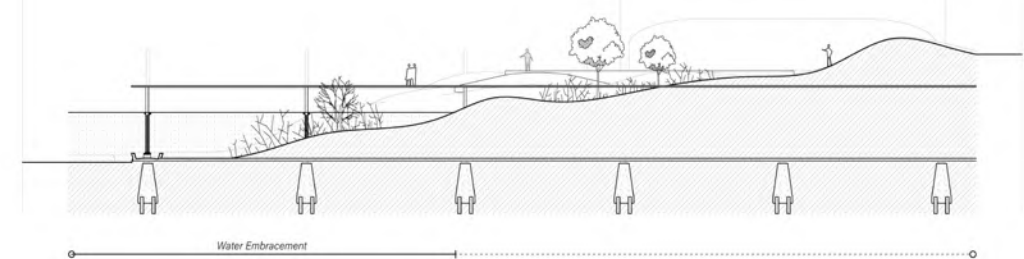
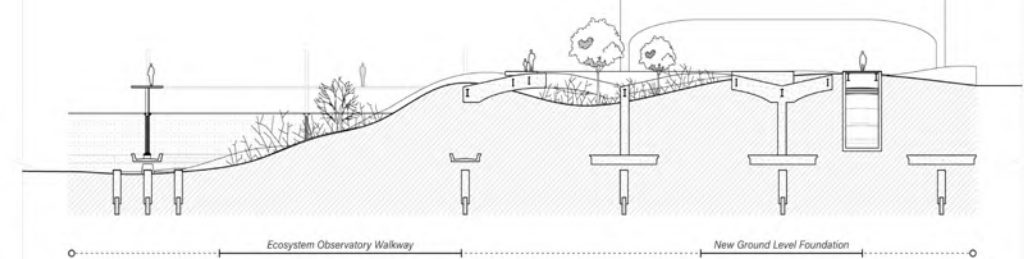
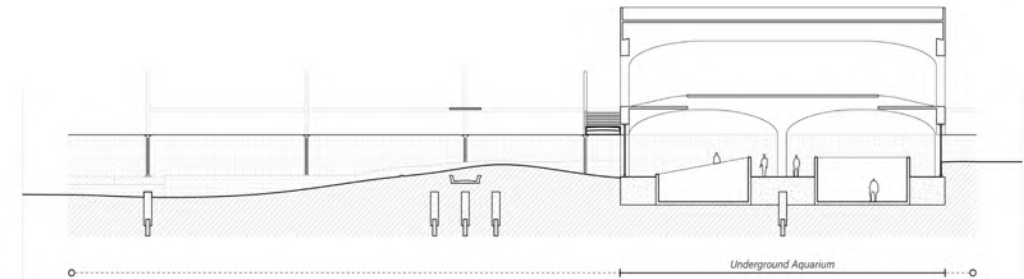
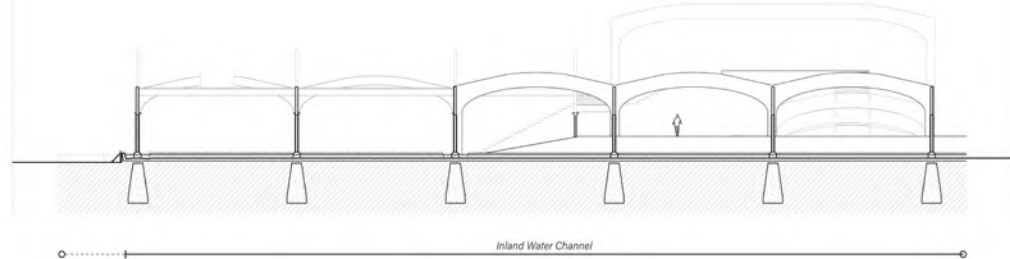
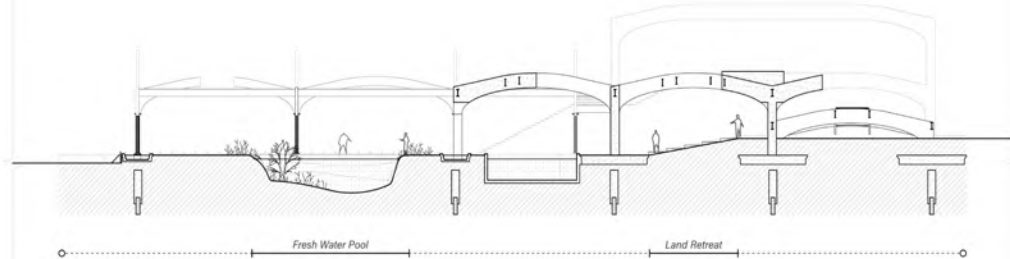
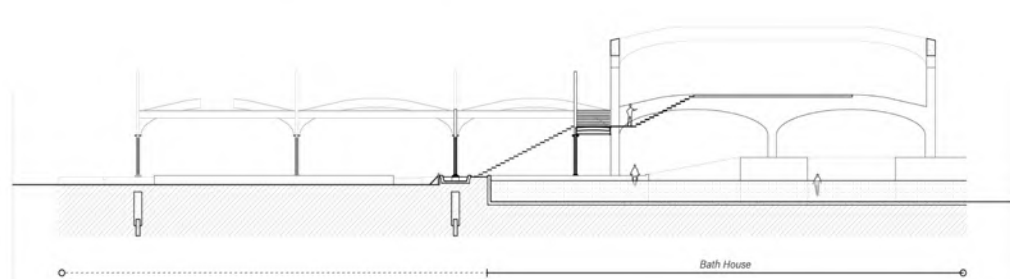
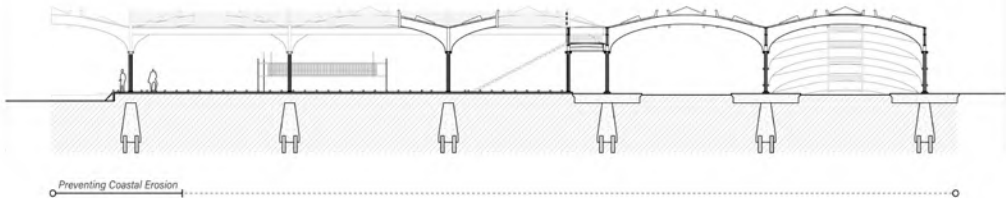
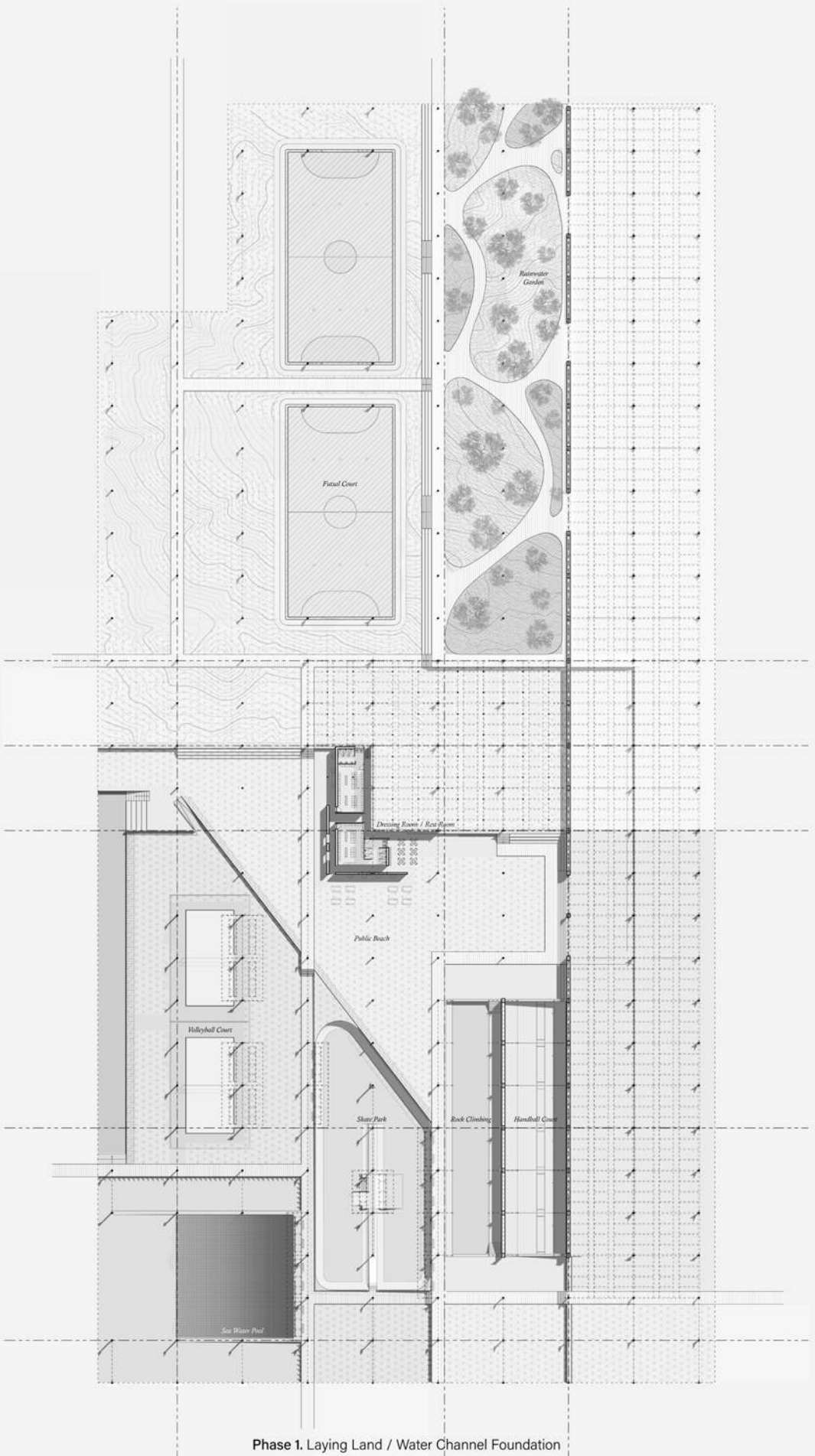
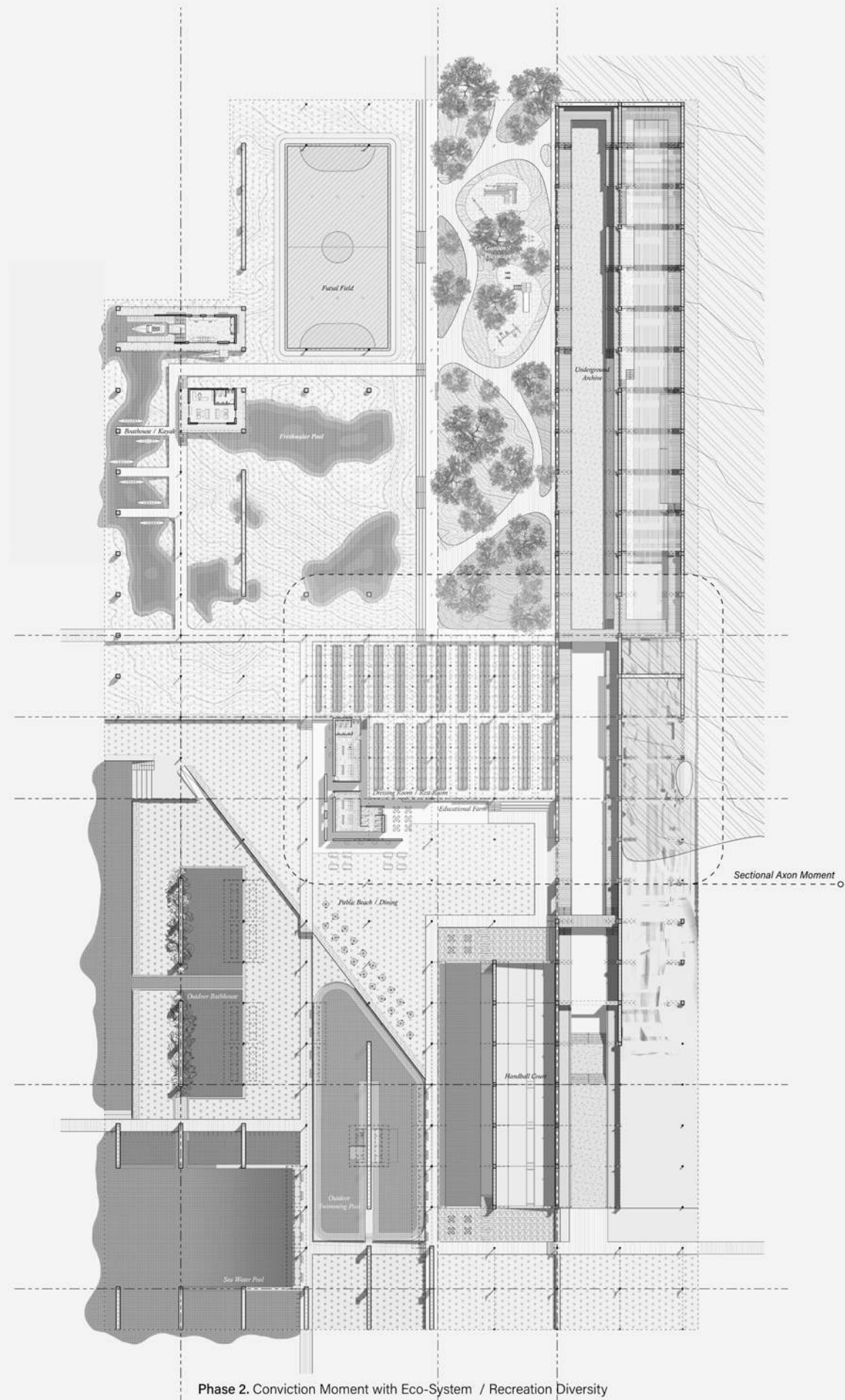


Diagram. Transformation of Ground Condition in Phases



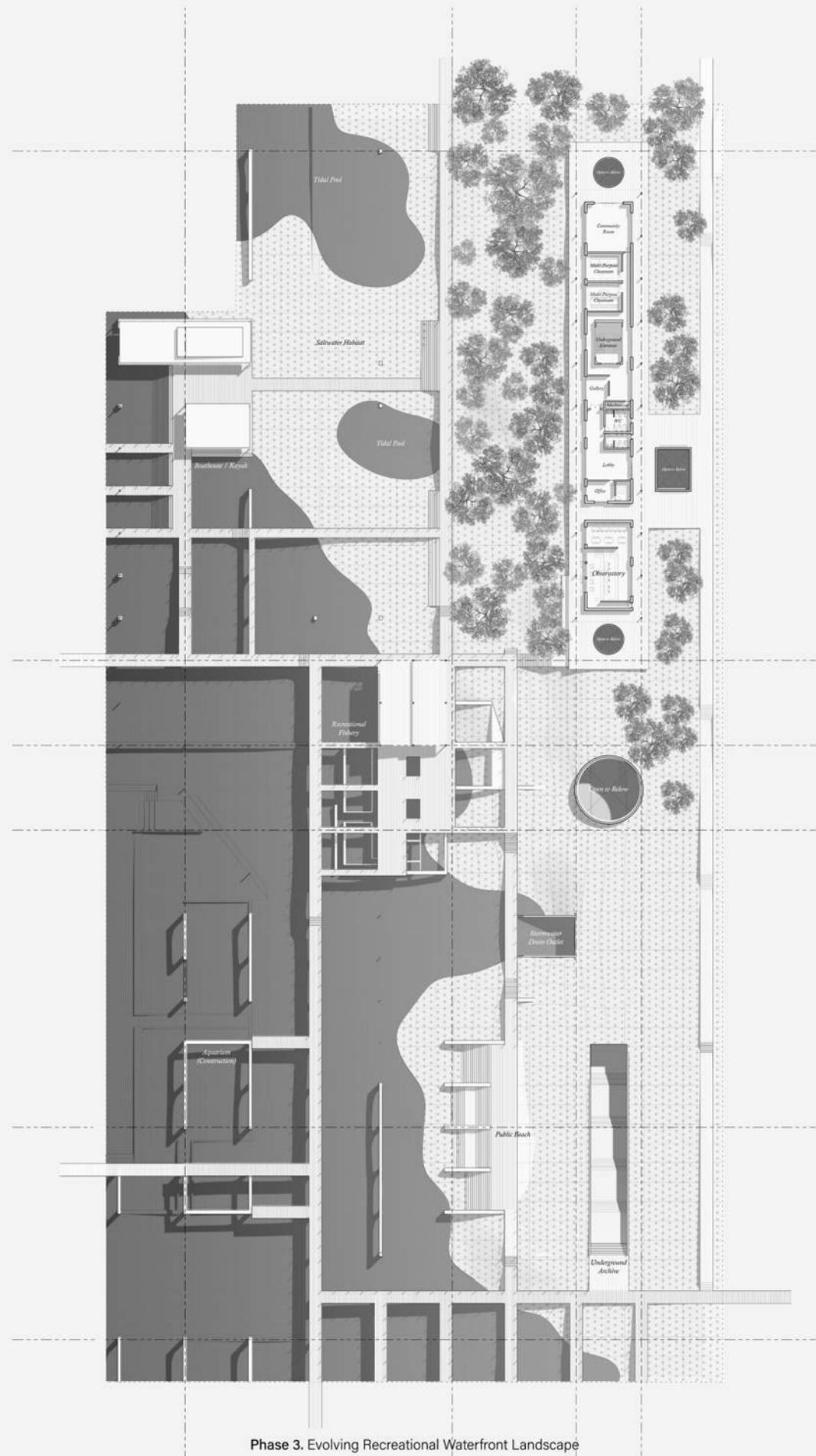
Phase 1. Laying Land / Water Channel Foundation

2025



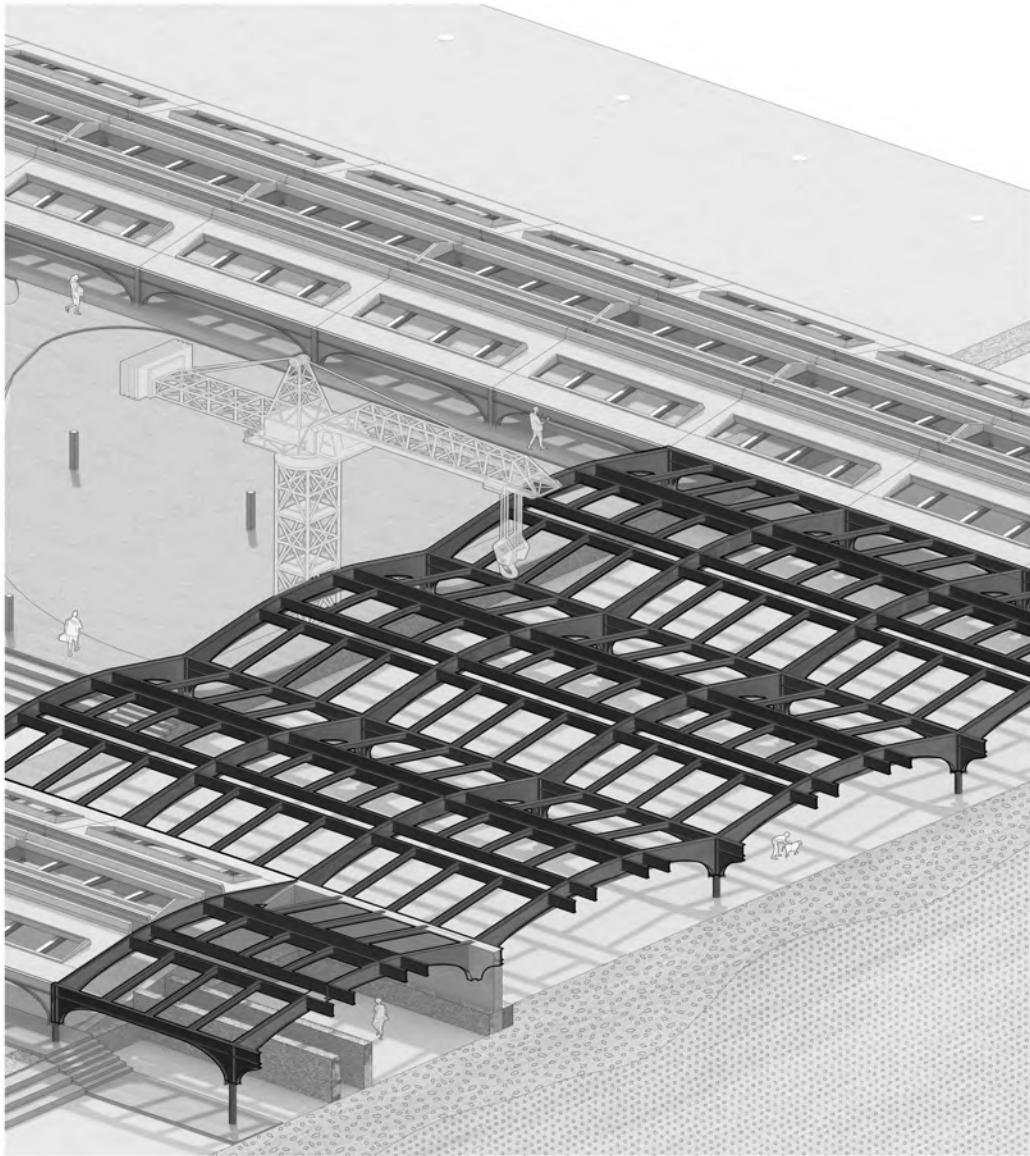
Phase 2. Conviction Moment with Eco-System / Recreation Diversity

2050

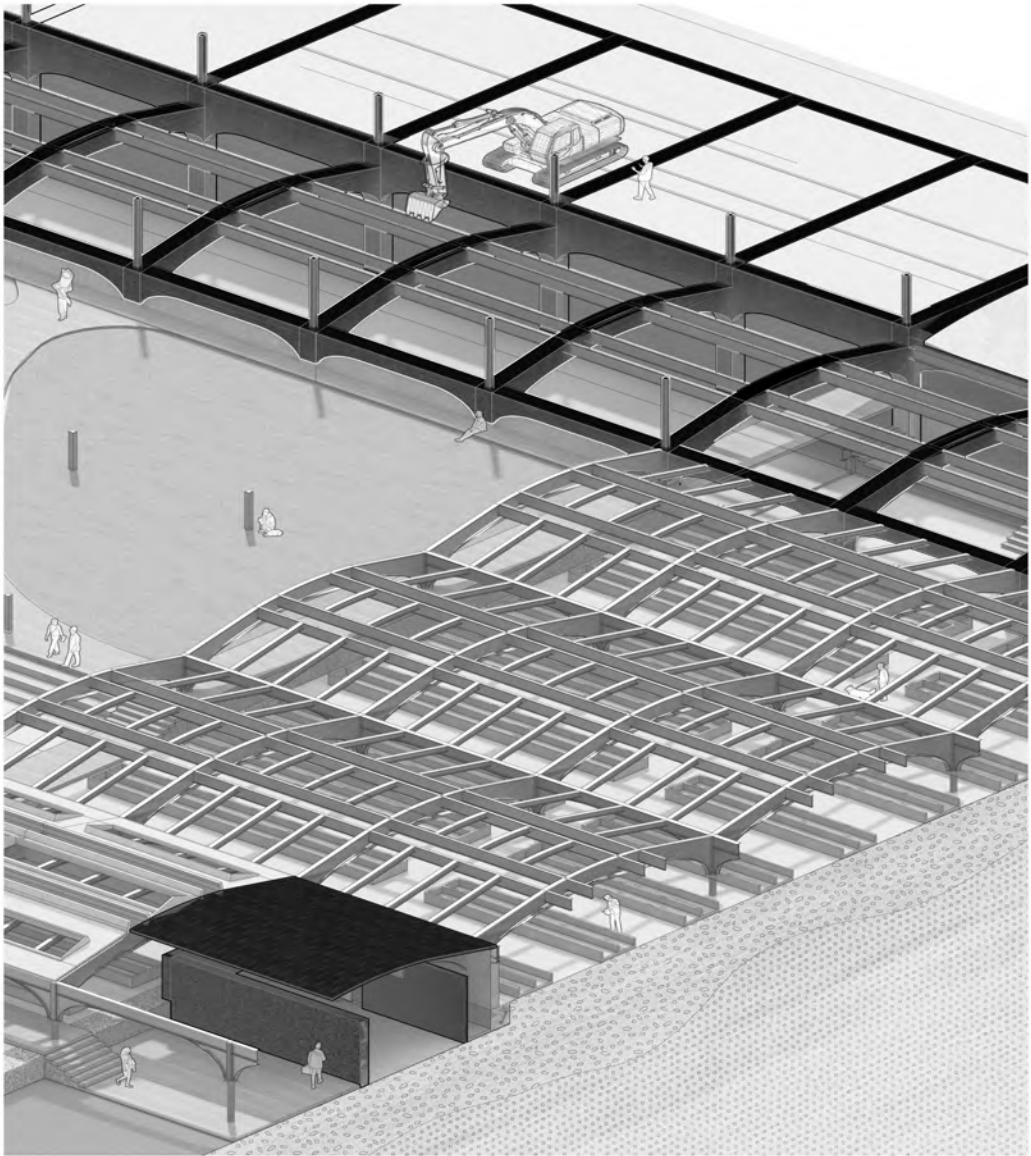


Phase 3. Evolving Recreational Waterfront Landscape

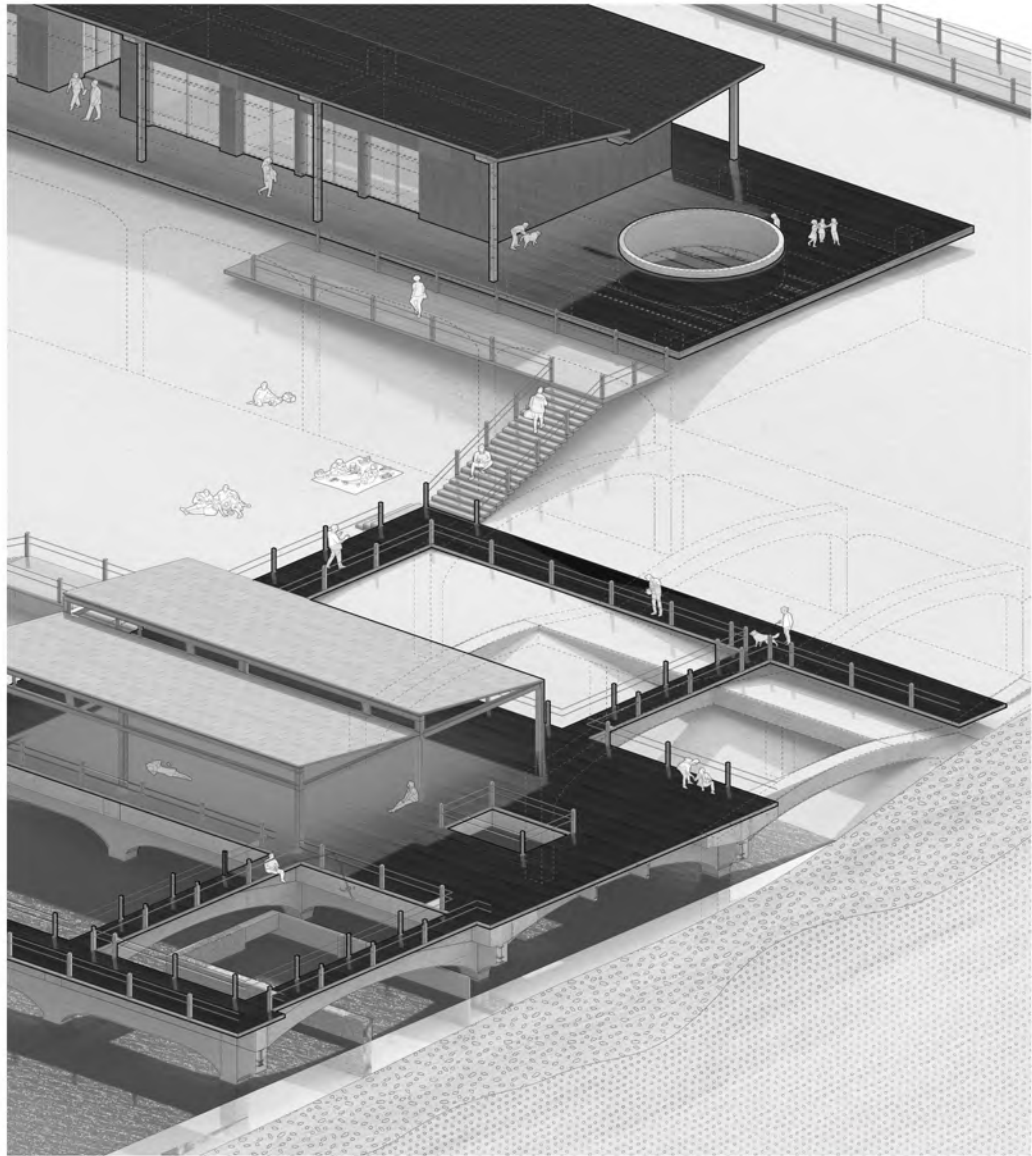
2100



Moment in 2025. Controlled Demolition



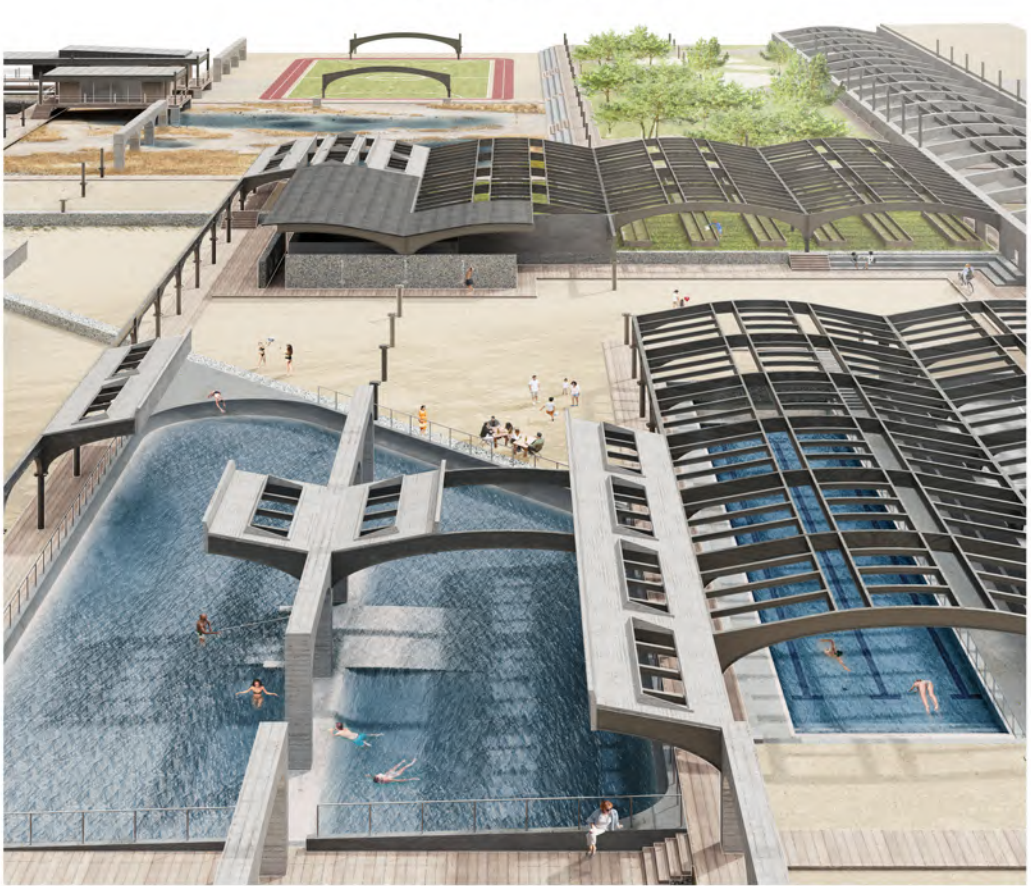
Moment in 2050. Selective Reinforcement



Moment in 2100. Land Transformation



Immersive Perspective of Recreation in 2025



Immersive Perspective of Recreation in 2050



Immersive Perspective of Recreation in 2100

Future Cumulative Archive : Archiving Contested Life Cycles

Over time, the "Contingency Plan" is Positioned to Function as a Cumulative Archive of Life Cycles, Displaying a Harmonious Coexistence between Human Endeavor and Natural Resurgence. By 2100, Preemptive Land Retreat and the Formation of New Ground Levels Gradually Establish an Underground Archive. The Transformation of the Land itself and the Layers Accumulated therein are Preserved. Additionally, Reinforcing the Existing Train Shed Aids in Archiving the Structure itself and Archiving its Historical Image through the Negatives of the Castings. The Project Suggests a Redefined Preservation Methodology Amid the Evolving Landscape of the World. Through this Symbiosis of Preservation and Adaptation, the Project Endeavors to Construct a Living Monument that Gracefully Evolves Over Time, Bearing Witness to the Passage of History and the Resilience of Human Ingenuity.



Underground Archive Entrance Perspective. Archiving the Land Transformation



Underground Archive Perspective. Archiving the Train Shed

04 Open-End of Living

Housing Studio, States of Housing - Home Life

Urban Life Perspective : Living Environment Shaped by the Artist Residents

Project - GSAPP Core III Housing Studio

Period : 2nd Year, Fall 2023
Type : Housing Project
Category : Academic (Collaboration with Danielle Min)
Role : Every Image Included Produced and Revised for Individual Use
Instructor (Coordinator) : Benjamin Cadena (Hilary Sample)
Keywords : Artist Housing, Spontaneity, Interaction, Depth, Invitation

Precedent Study - GSAPP Core II Damage Control Studio

Period : 1st Year, Spring 2023
Category : Individual Work
Instructor (Coordinator) : Joshua Uhl (Mark Wasiuta)

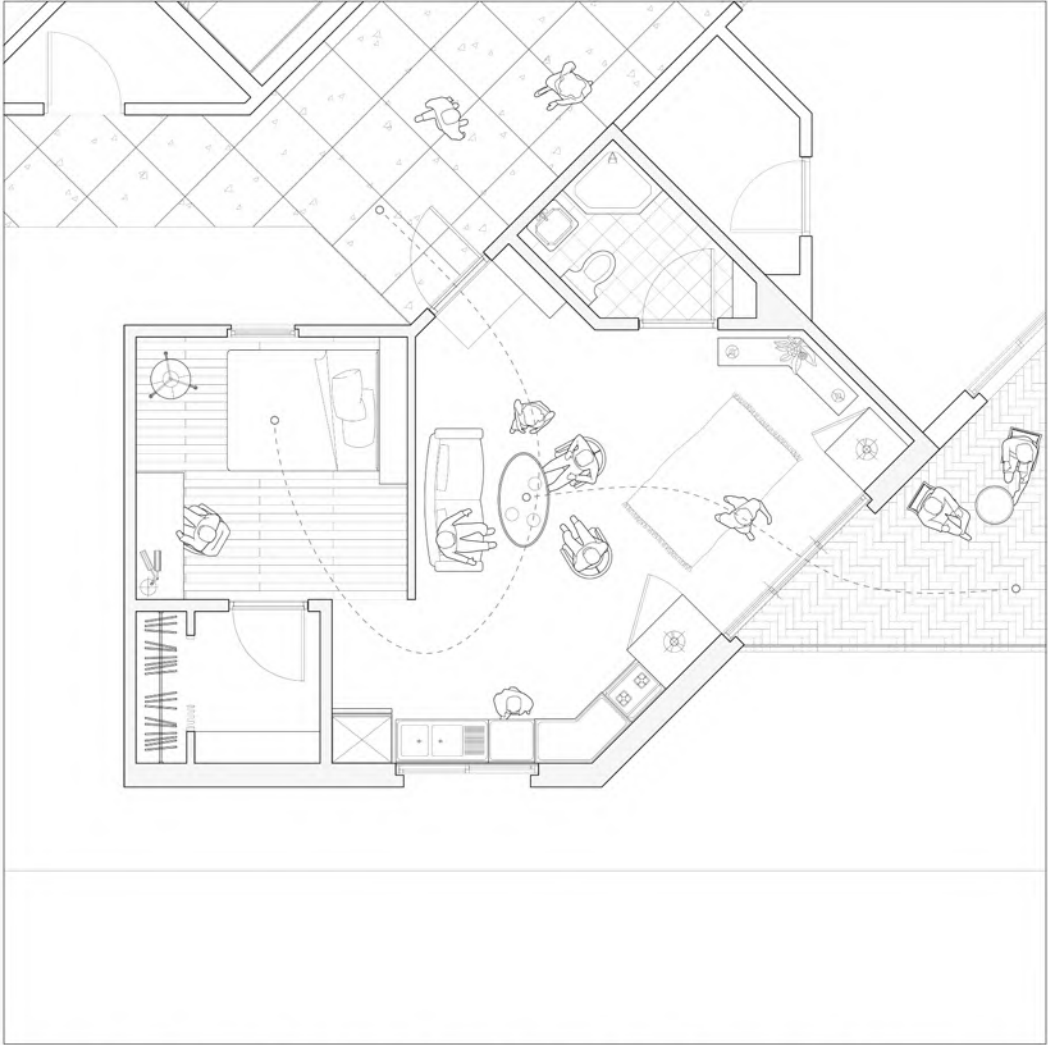


The proposal aims to create an artist community that seamlessly integrates their creative process with daily life, to foster the balance of art and life. This artist's residence provides various platforms through implementing the artist's communal programs which encourage countless impromptu-interactions between artist residents for their eternal thoughts and communication to be possible. Collectively, the multifaceted protrusions and intrusions of architectural depths invites various activities on different scales which creates a vibrant environment, encouraging residents to thrive, possess, and realize the performative prospects of depth, shaped by the users.

Project Brief

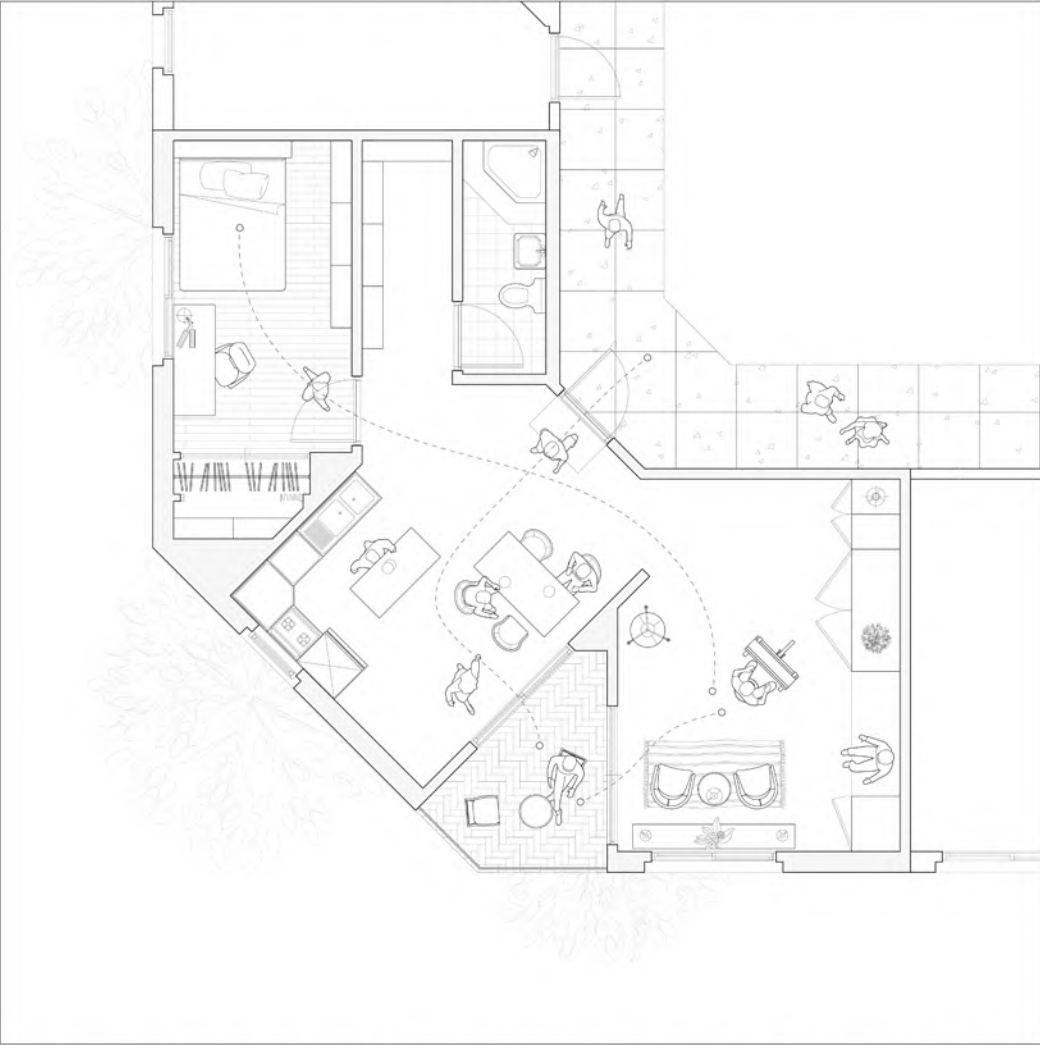
Inner Life : Reflecting the Unique Work-Life Balance of Artists

Studio Unit



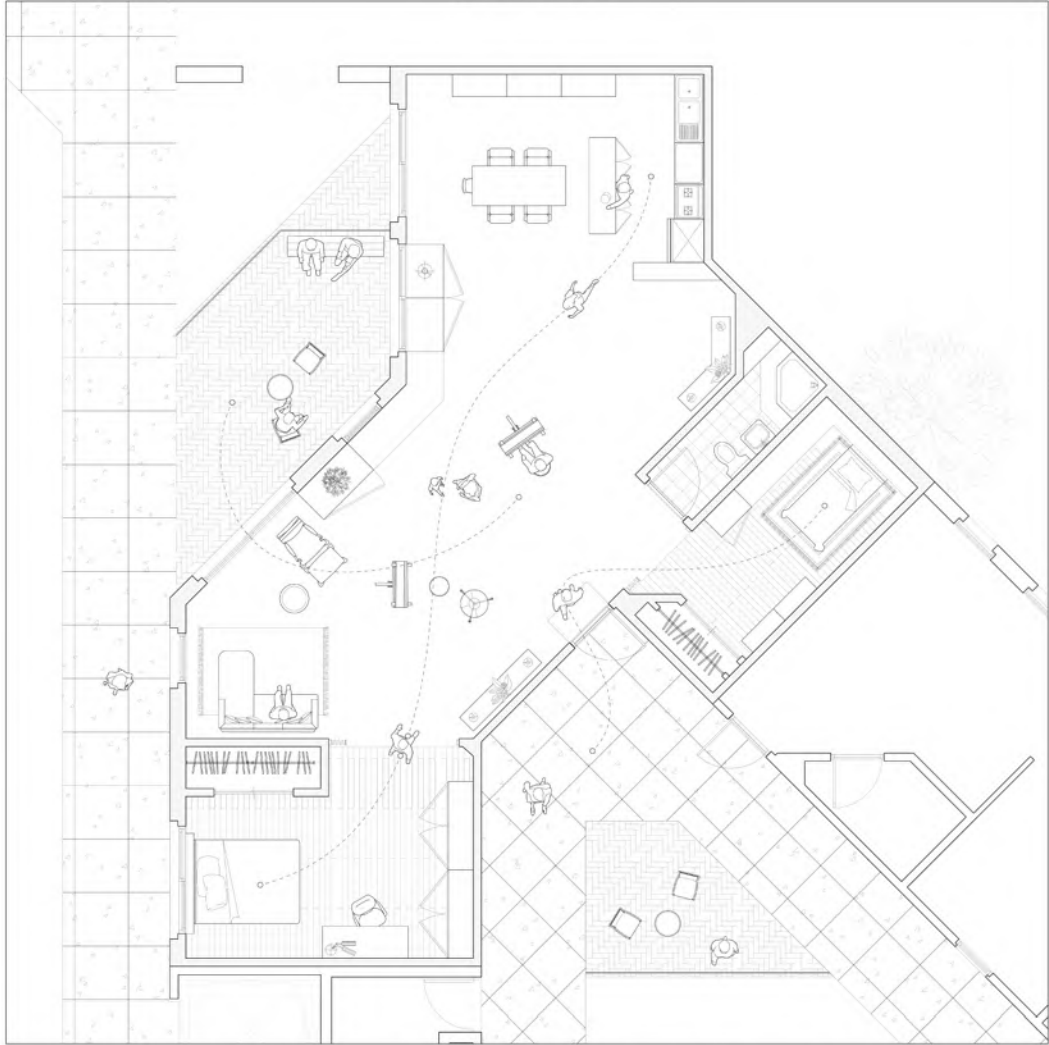
The Studio, a Deeply Personalized Space, Carefully Balances Privacy and Social Life. Configuration of Walls Helps to Delineate Personal Spaces with Communal Spaces for Interactions Like Hosting while Showcasing their Personalized Room.

One-Bedroom Unit



The One-Bedroom Unit that Artists may Reside as a Couple takes into account Two Discrete Life Patterns to Coexist. The Division of Living and Working Areas while it Appears to be One Cohesive Space Accommodates Two Different Life Patterns.

Two-Bedroom Unit



For Artist Couples with an Infant, the Two-Bedroom Unit Considers Two Different Human Scales within a Single Unit, while Bleeding Activities and Visual Connectivity.

Possessing and Shaping the Potentials of Depth in Architecture

Model Photo. Divided Yet Connected Living and Working Areas in the One-Bedroom Unit



Perspective. Common Life Encountering Spontaneous Interactions



Perspective. Adaptive-Reused Existing Building as Public Gallery + Workspace

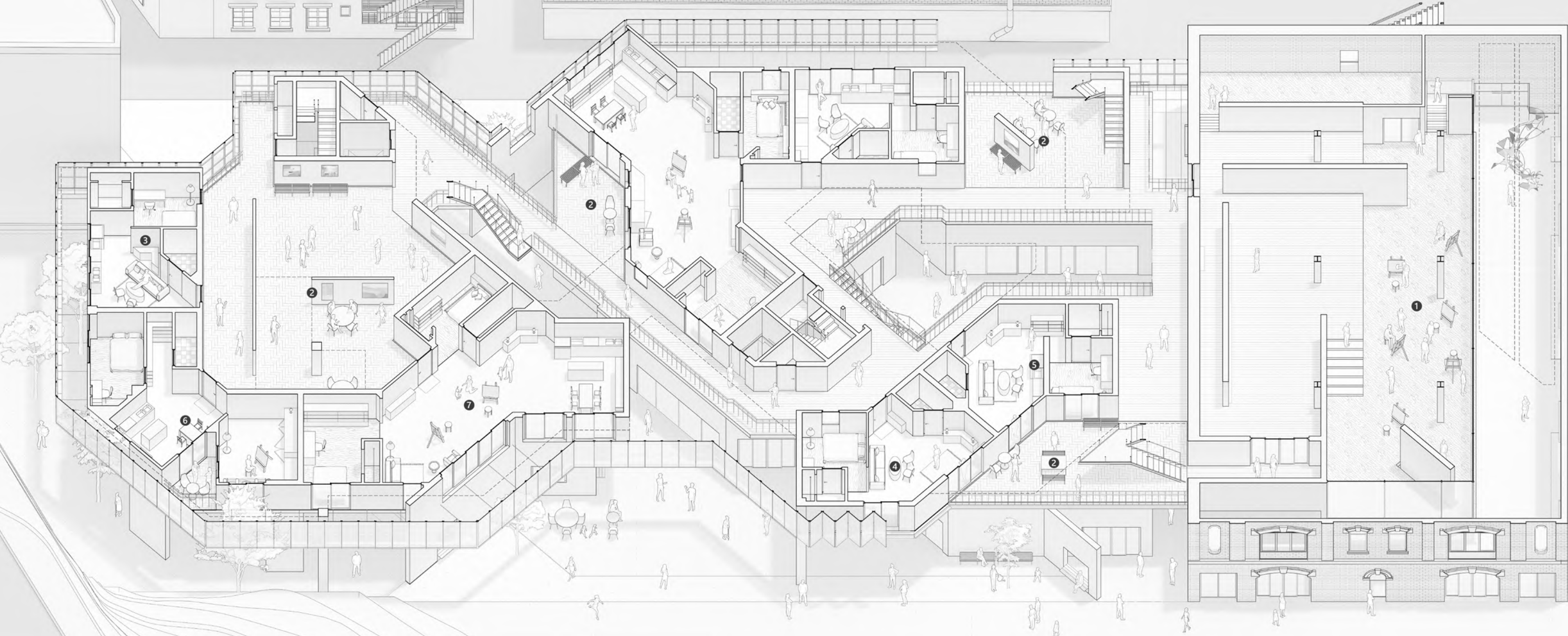


Throughout the Core II Precedent Study and Core III Design Process, Witnessing Pre-Determined and Rigid Living Environments has Triggered a Question on Transformative Potentials in Architecture. This Proposal Involves Artists that are Highly Eager to Personalize and Shape their Given Environment. How Work is an Inseparable Part of their Lives and their Unique Life Pattern are Considered to Flourish Social Cohesion. As the Project Expands from Living Spaces to Common Spaces, it Aims to Provide Multiple Scales of Architectural Depths that could be Possessed, Shaped, and Thrive by the Users. The Indeterminate Nature of the Third Space could be Interpreted Autonomously by the Individuals.

Housing Proposal for Artists : Social Platform Integrating Work with Daily Life

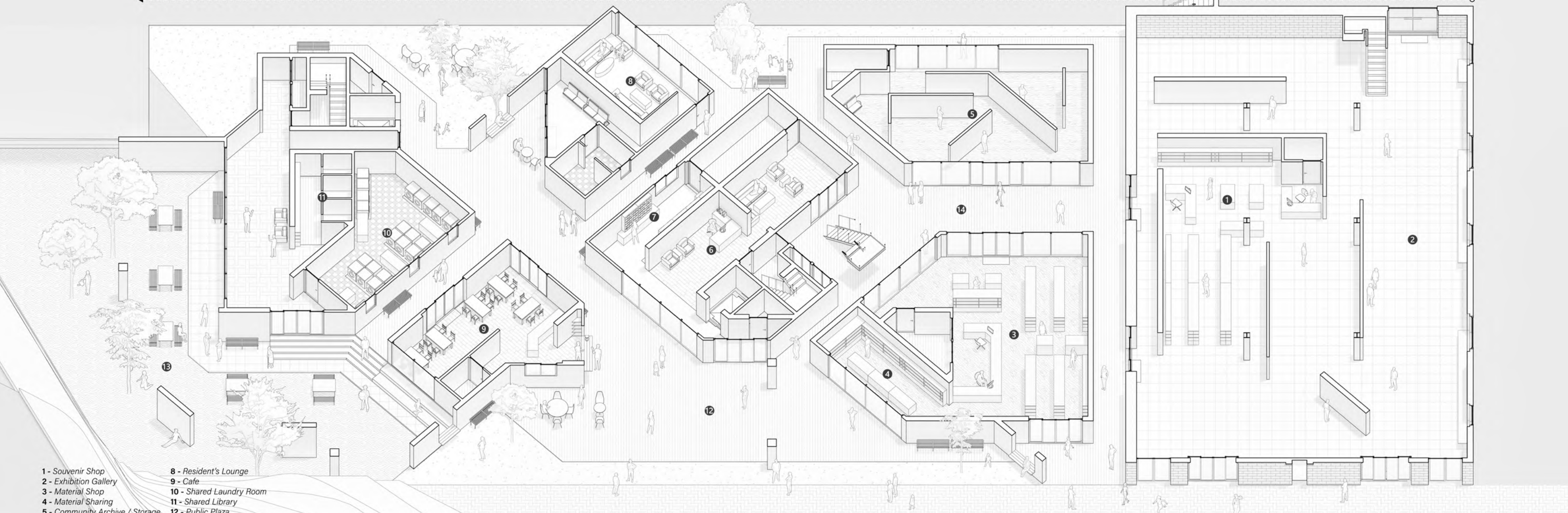
The Proposal Explores Transformative and Performative Prospects of Architectural Depth in order to Create an Artist Community. Considering the Unique Work-Life Balance, Autonomous Characteristic, and Desire of Personalization of Artists, the Housing Provides a Platform where Residents can Actively Shape their Own Community Through Outdoor Social Spaces and Interconnected Circulation Journeys that Promote Spontaneous Interactions.

Site : 454 - 458 West 128th Street, New York



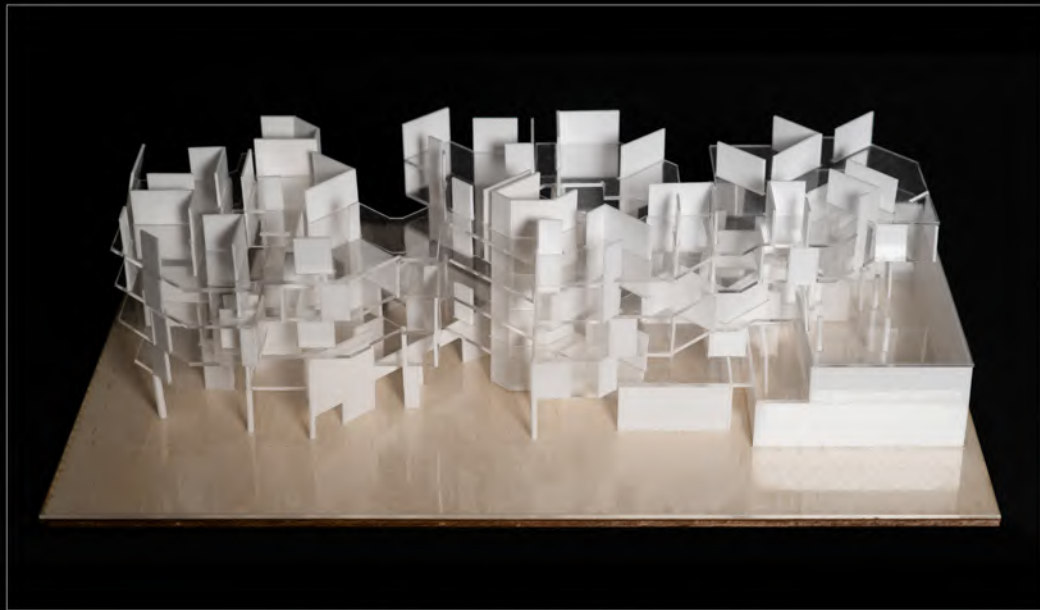
- 1 - Community Art Workspace
- 2 - Communal Open Space
- 3 - Studio Type A
- 4 - Studio Type B
- 5 - Studio Type C
- 6 - One Bedroom Type A
- 7 - Two Bedroom Type A

Section Perspective. Degree of Publicity of In-Between Communal Spaces

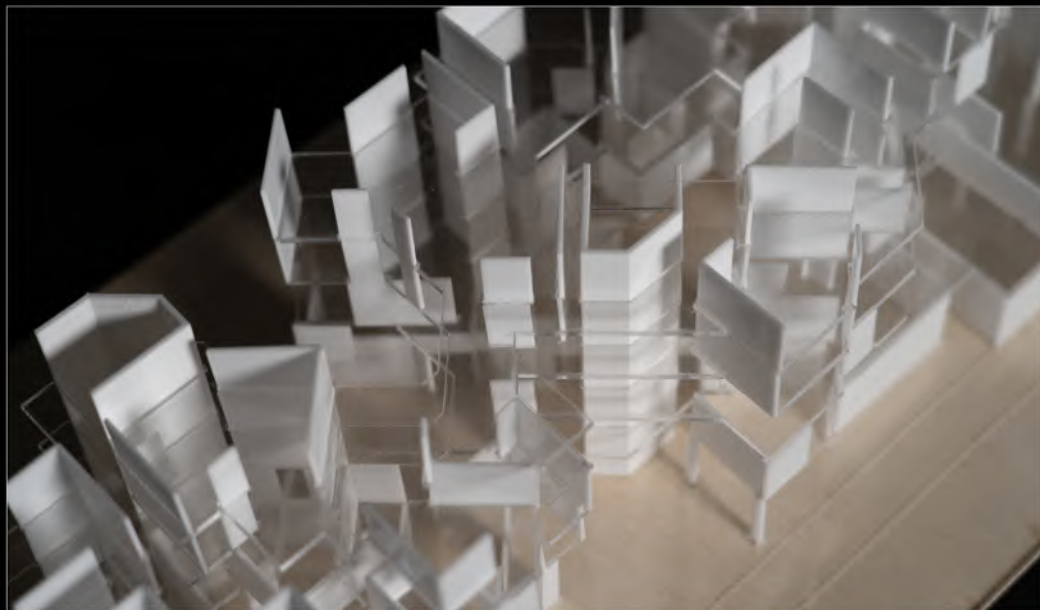


- 1 - Souvenir Shop
- 2 - Exhibition Gallery
- 3 - Material Shop
- 4 - Material Sharing
- 5 - Community Archive / Storage
- 6 - Lobby / Doorman
- 7 - Mail Room
- 8 - Resident's Lounge
- 9 - Cafe
- 10 - Shared Laundry Room
- 11 - Shared Library
- 12 - Public Plaza
- 13 - Inner Community Garden
- 14 - Outdoor Exhibition Area

Ground Floor Oblique Plan. Ground Floor Degree of Publicity



Study Model Photo 1. Shear Wall Configuration



Study Model Photo 2. Study of Maximum Openness, Minimum Solidity



Section Model Photo 1. Openness of Double Skin Facade

Structural Strategy

Creation of In-Between, Third Spaces

As the Strategy for Fostering a Social Platform where Artist Residents can Encounter Unexpected Interactions and Decisions, Three Layers of Structural Elements are Used. Shear Walls, and its Relationship with its Adjacent Surrounding, and the Double Skin Facade are the Layers that Seamlessly Create In-Between Spaces, while it Serves as the Structure at the Same Time. The Placement of Solid Shear Walls are Defined Firstly in order to Synthesize Maximized Openness, Visual Connectivity, and Gathering Open Spaces.

Common Life

Personalizing, Sharing, and Displaying

The Common Spaces in the Proposal Aims to Aggregate the Individuals as well as the Units by Providing Communal Areas where the Artist Residents can Share and Communicate their Common Interests, Ideas, and Crafts and Formulate a Studio-Like Culture. The Circulation that Resembles a Alleyway Functions as a Social Street that Invites Both the Pedestrians and the Residents. The Degree of Openness to the Public Expands the Platform to Integrate the Inner Community with the Surroundings.

④ Awning

⑦ Balcony

③ Double Skin Facade

⑥ Alleyway-Like Path

② Shear Wall Configuration

⑤ Window Sills

① Setback

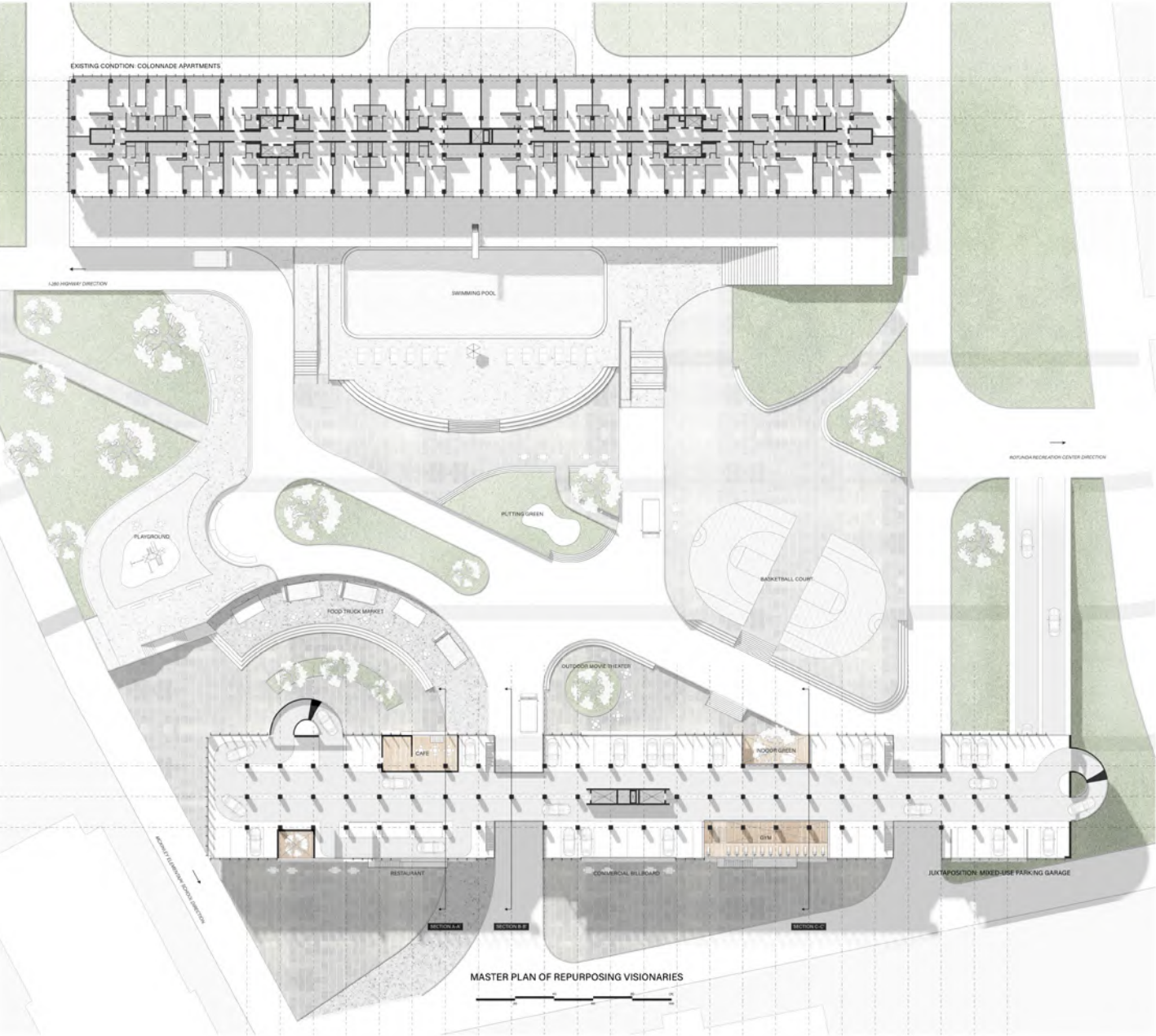
Section Model Photo 2. Multifaceted Scales of Depth Incorporated in the Design Proposal

05 Re-Inventing Modernist Vision

Damage Control USA

Project - GSAPP Core II Studio

Period : 1st Year, Spring 2023
Type : Counter-Proposal
Category : Academic (Individual Work)
Instructor (Coordinator) : Josh Uhl (Mark Wasuita)
Keywords : Redisbtribution of Park and Parking / Curtain Wall / Rigidity - Indeterminacy



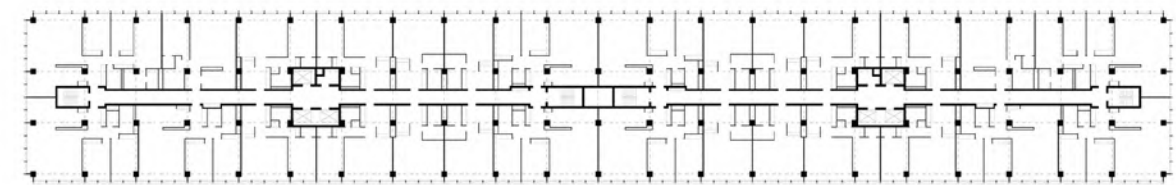
Project Brief

This Project Challenges the Rigid Monumentality of Mies Van Der Rohe's Colonnade Apartments, Where Formal Order and Visual Purity Were Prioritized Over Livability and User Agency. Drawing a Critical Comparison With the Tower of David in Caracas—an Unfinished Structure That Fostered Community and Adaptability—the Proposal Reclaims the Colonnade's Surrounding Site by Transforming Parking Lots Into Active Parks, Pathways, and Public-facing Commercial Spaces. The Existing Curtain-wall Grid is Repurposed as a Scaffold for Irregular Communal Programs, Inviting Participation and Everyday Use. In Doing So, the Project Shifts the Focus From Architectural Control to Spatial Flexibility, Proposing a More Inclusive and Human-centered Alternative to Modernist Ideals.

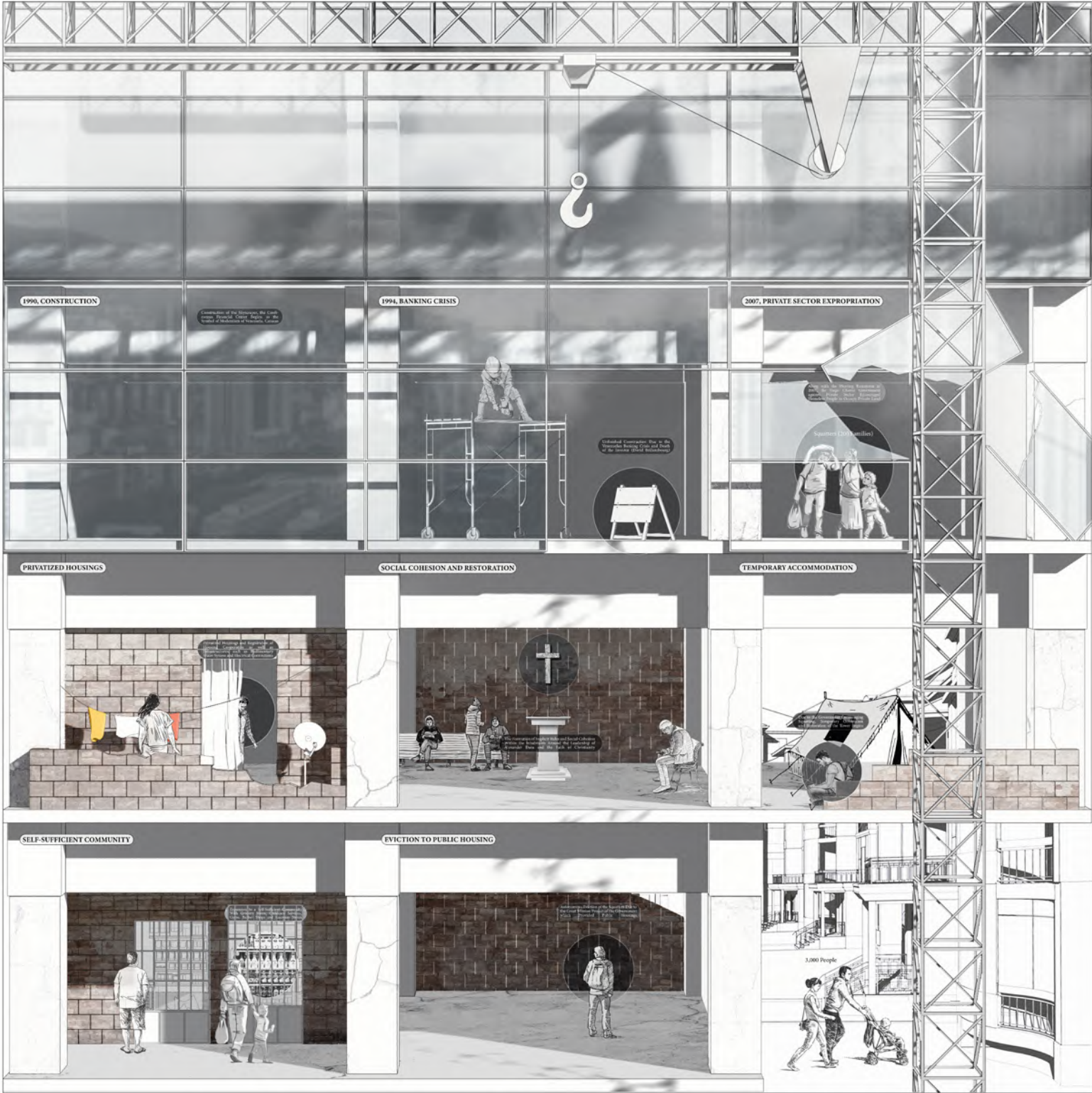


Core II Precedent Study : Life Styles Pre-Determined by Housing Frameworks

Precedent Studies Includes a Comparison of Two-High Rise Housings, the Tower of David in Venezuela and the Colonnade Apartments in Newark. Physical Damage that is Visible on the Building's Exterior and the Squatting in the Tower of David is Portrayed as Dystopian in the Media. On the Other Hand, Colonnade Apartments was Celebrated to be Designed by a Modernists' Vision of Mies Van Der Rohe. However, Compared to the Autonomous Privatization of the Squatters and the Formation of a Third Space in the Tower of David, the Uniformity and Rigidity in the Colonnade Apartments Engages Social Control that Perpetuates Diverse Life Styles to the Manual of a Machine.



Dystopian Portraits of the Tower of David, Venezuela

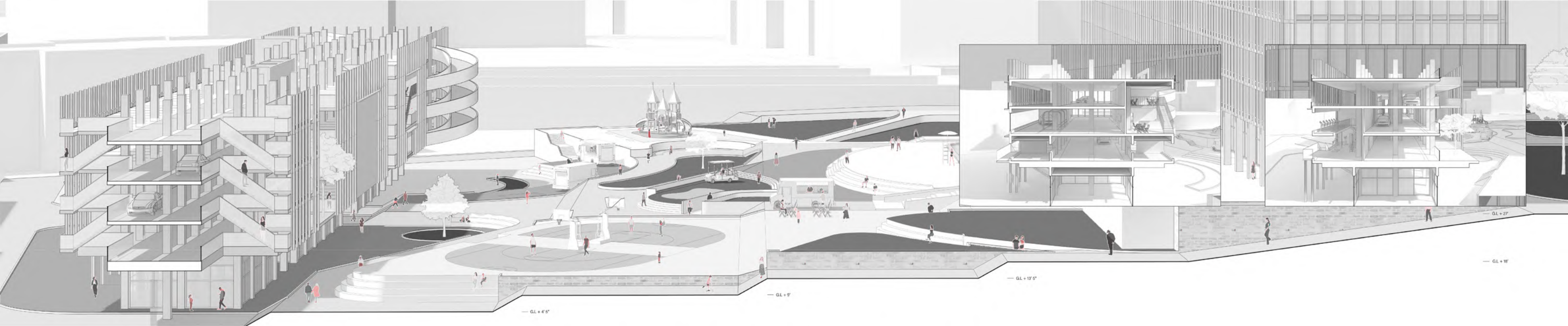


The Colonnade Apartments, designed with Mies Van Der Rohe's modernist vision, adapted the Seagram Building's curtain wall system for residential use. Now an urban fortress in Newark, it disconnects from its surroundings with sealed windows and no balconies for security. Its uniform design enforces rigid living habits, while internal maintenance issues persist, and the curtain wall's color shows visible deterioration.

Utopian Portraits of the Colonnades Apartment, Newark

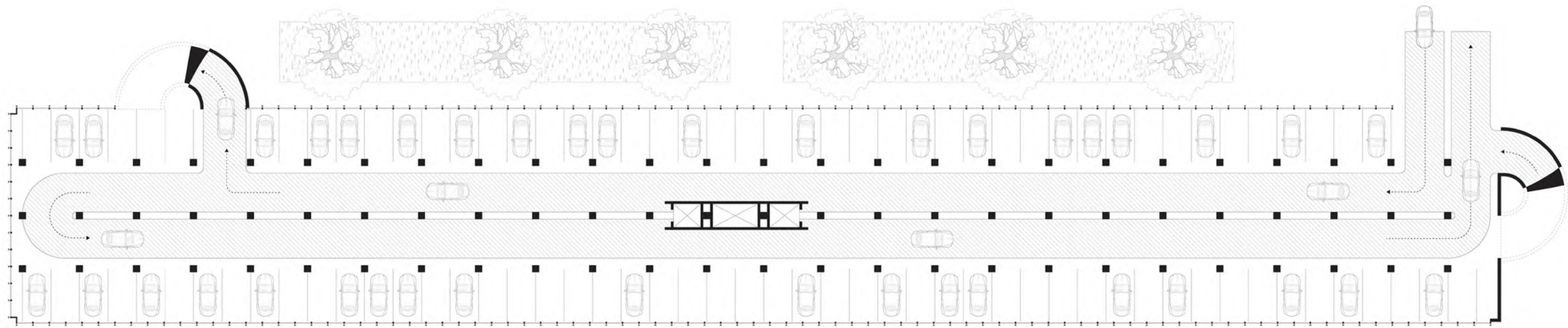
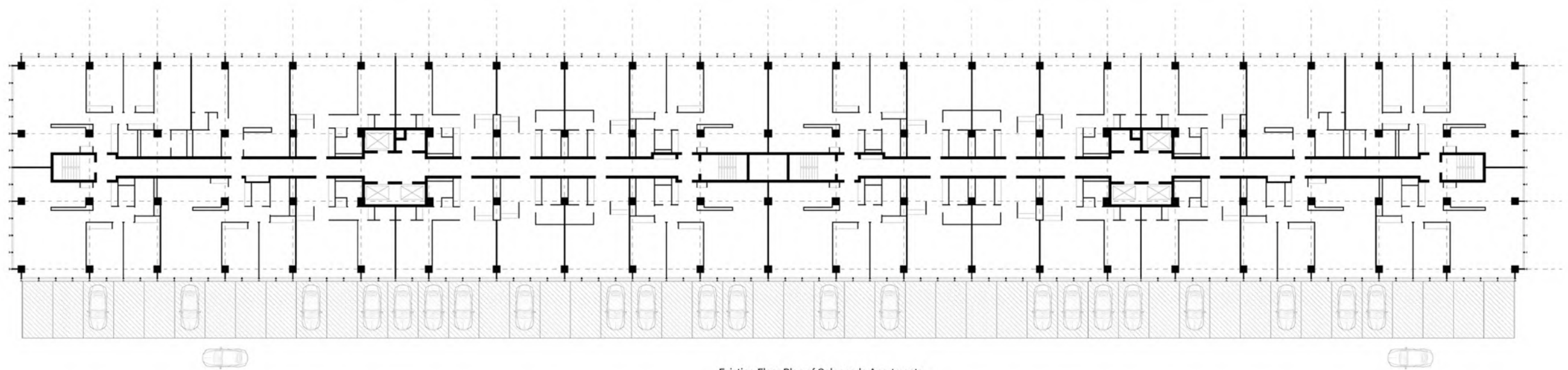


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Counter Proposal of the Colonnade Apartments : Repurposed Parking Garage

The Counter-proposal Aims to Revitalize the Colonnade Apartment Site by Redistributing Parking Lots and Parks, Creating Pathways, and Incorporating Commercial Spaces to Foster a Sense of Community. The Existing Curtain-wall Structure and Grid Are Repurposed as a Parking Garage With Intimate Signboards and Irregular Placements of Communal, Commercial Places. The Park Enables Users to Interact With the Repurposed Visionaries to Produce a Dynamic Quotidian Experience While They Participate in Its Formation.



Converted Floor Plan to Parking Garage

From Monument to Habitat : Reclaiming Everyday Life in Modernist Structures

This Project Critiques the Rigid Monumentality of Mies Van Der Rohe's Colonnade Apartments, Where Formal Purity and Aesthetic Control Override Livability and Human Agency. In Contrast to the Isolated, Machine-like Environment It Creates, the Tower of David Offers a Model of Social Adaptability and Informal Use. By Redistributing the Site's Open Spaces Into Pathways, Parks, and Commercial Zones, and Repurposing the Structural Grid as a Scaffold for Communal Functions, the Proposal Reimagines the Colonnade as a Participatory, Inclusive Environment That Prioritizes Everyday Life Over Architectural Prescription.



Dynamic Quotidian Experiences



Repurposed Parking Garage as Commercial Framework



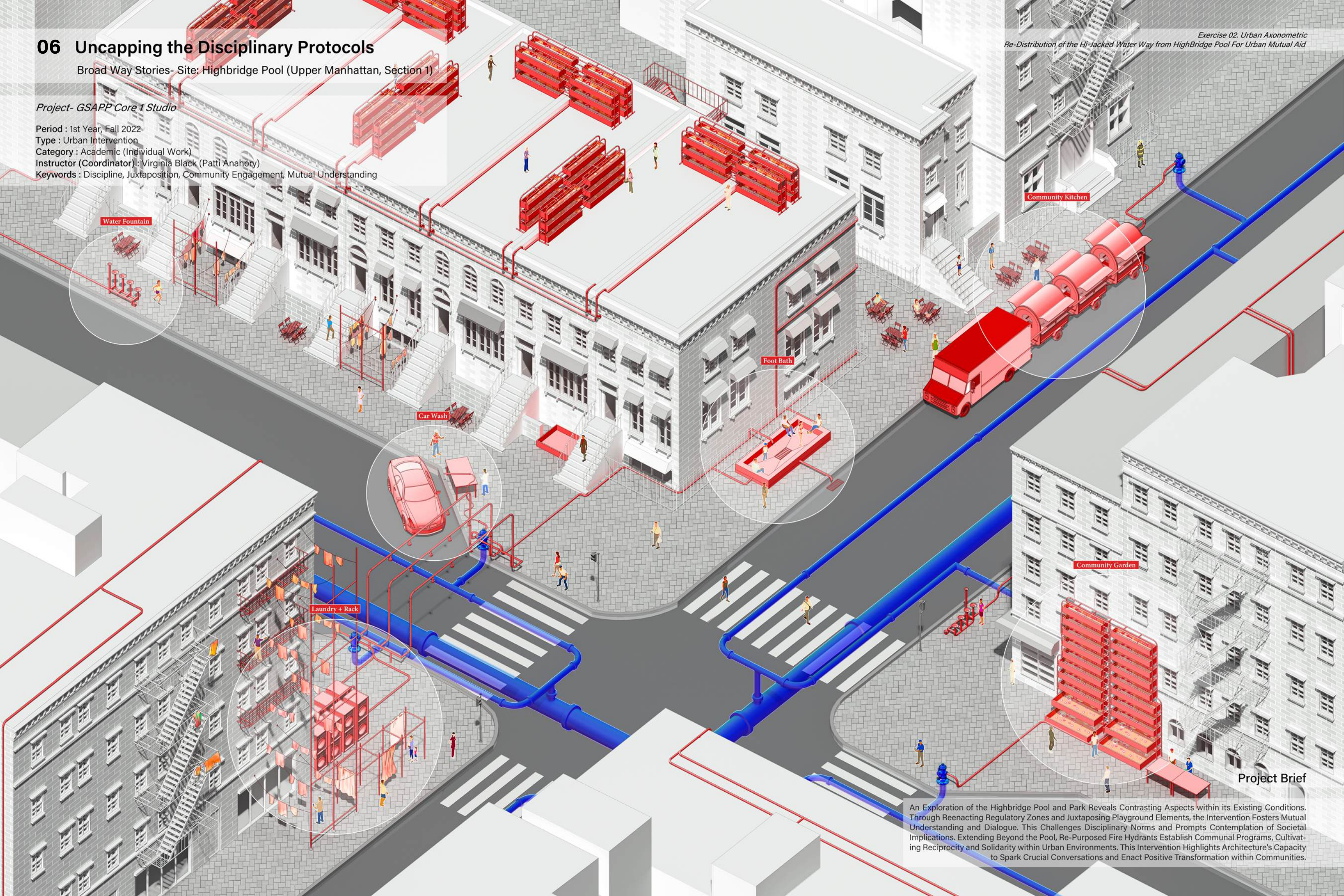
Redistributed Pathways

06 Uncapping the Disciplinary Protocols

Broad Way Stories- Site: Highbridge Pool (Upper Manhattan, Section 1)

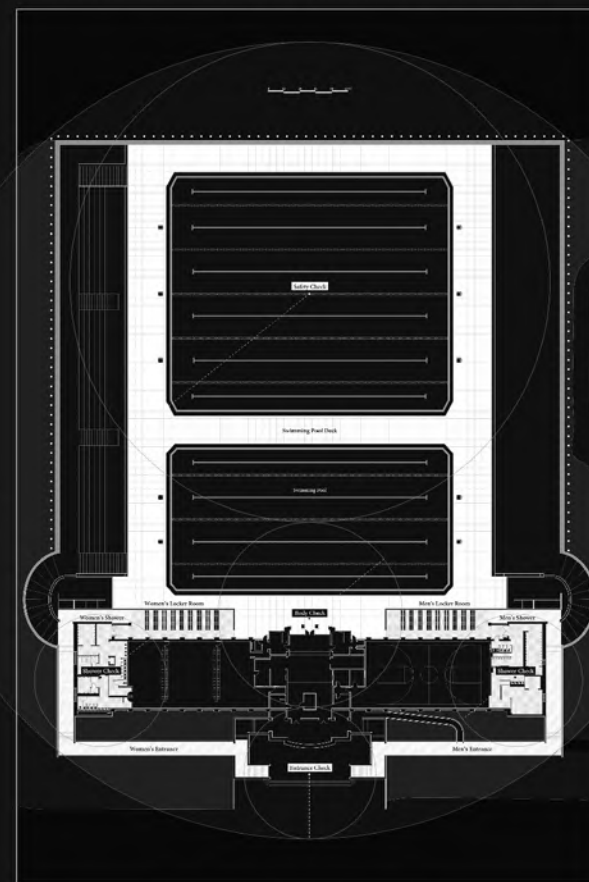
Project- GSAPP Core 1 Studio
Period : 1st Year, Fall 2022
Type : Urban Intervention
Category : Academic (Individual Work)
Instructor (Coordinator) : Virginia Black (Patti Anahory)
Keywords : Discipline, Juxtaposition, Community Engagement, Mutual Understanding

Exercise 02. Urban Axonometric
Re-Distribution of the HI-Jacked Water Way from HighBridge Pool For Urban Mutual Aid

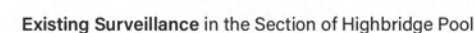


Project Brief
An Exploration of the Highbridge Pool and Park Reveals Contrasting Aspects within its Existing Conditions. Through Reenacting Regulatory Zones and Juxtaposing Playground Elements, the Intervention Fosters Mutual Understanding and Dialogue. This Challenges Disciplinary Norms and Prompts Contemplation of Societal Implications. Extending Beyond the Pool, Re-Purposed Fire Hydrants Establish Communal Programs, Cultivating Reciprocity and Solidarity within Urban Environments. This Intervention Highlights Architecture's Capacity to Spark Crucial Conversations and Enact Positive Transformation within Communities.

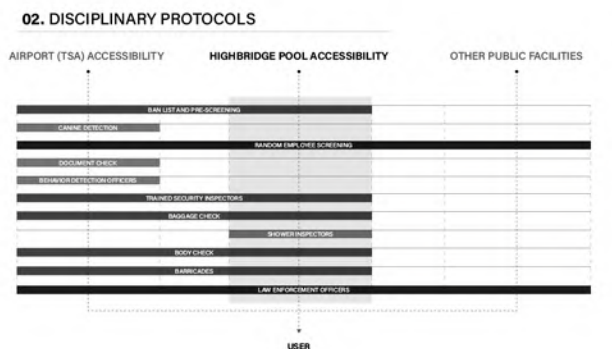
RESULT. Reinforced Disciplinary Protocols in Highbridge Pool



Reenacted Floor Plan of Highbridge Pool



From 'Individuals' To 'Dividuals'



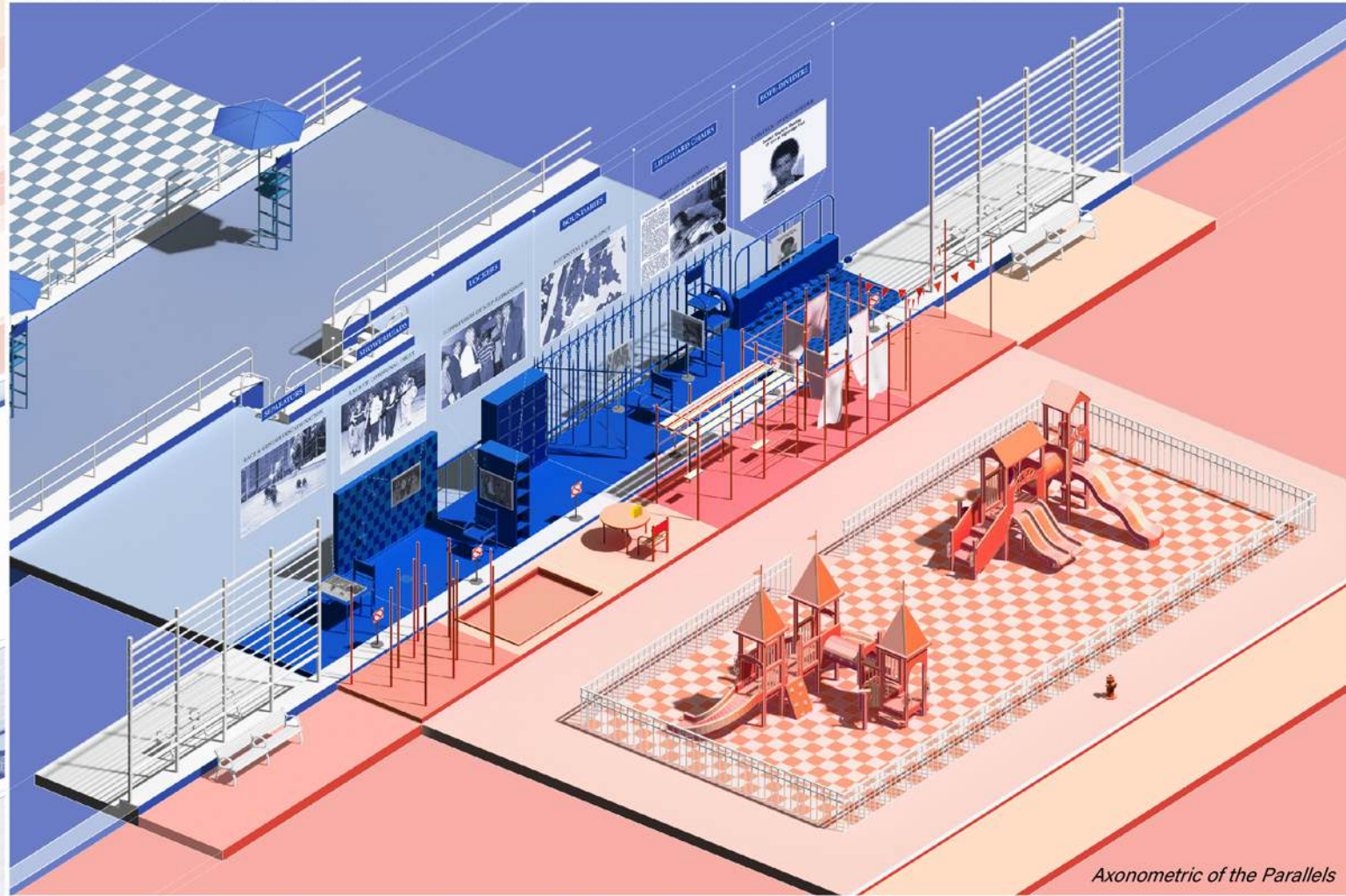
Axonometric.

Sequence of Entering the Public Pool With Regulation and the Embodying Artifacts

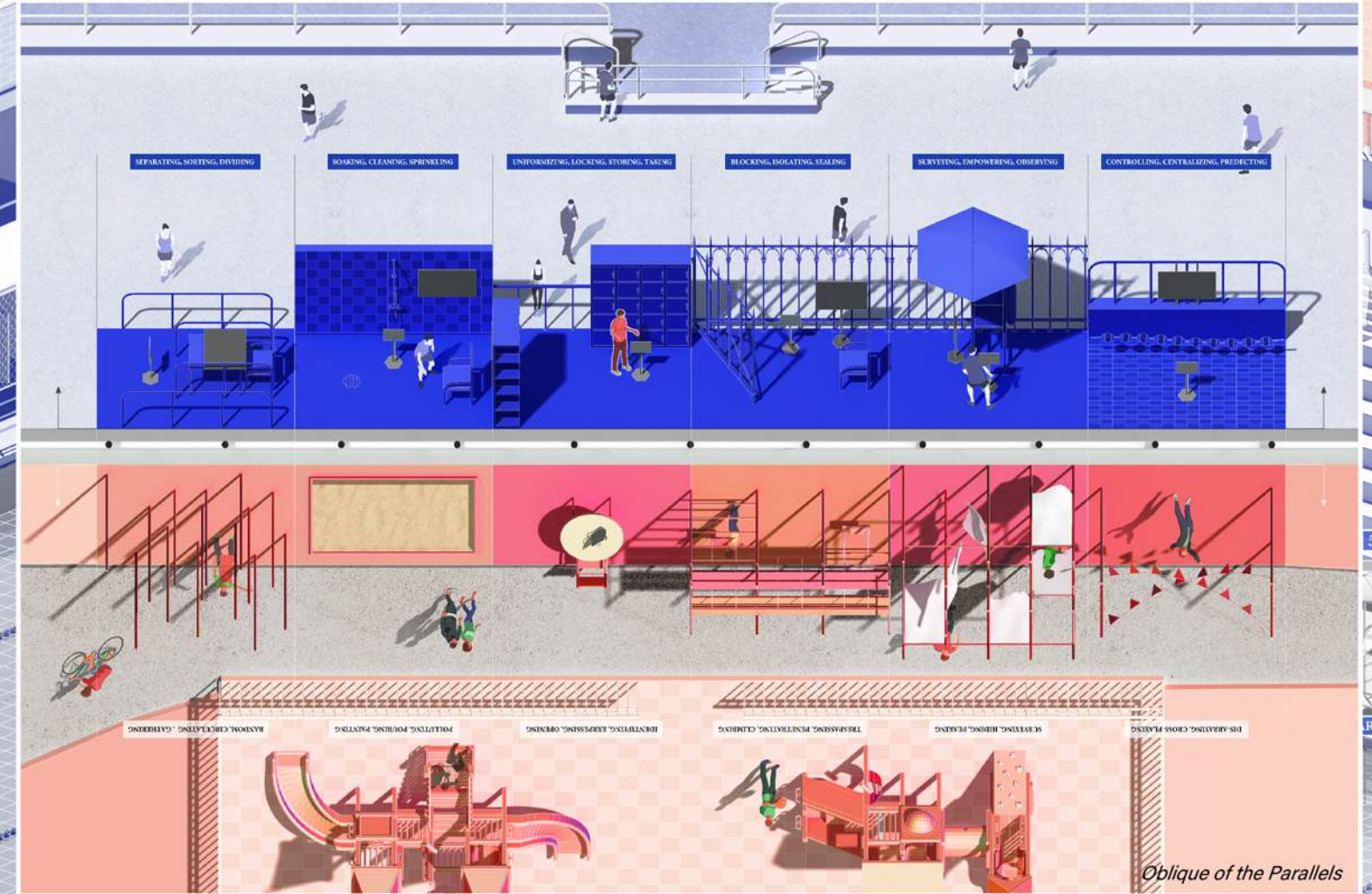
Use of Fire Hydrants for Ad-Hoc Pools As Liberation From Discipline



The Fire Hydrant represents the 'Hi-Jacking' of the urban infrastructure against the disciplinary protocols. The Hi-Jacking has been a "talk-back" to the city in order to gain access to public pools again. **The Fire Hydrant can be seen as the medium that can break the boundary between the urban and the pool and bring back a lateral system** to Washington Heights in this project.



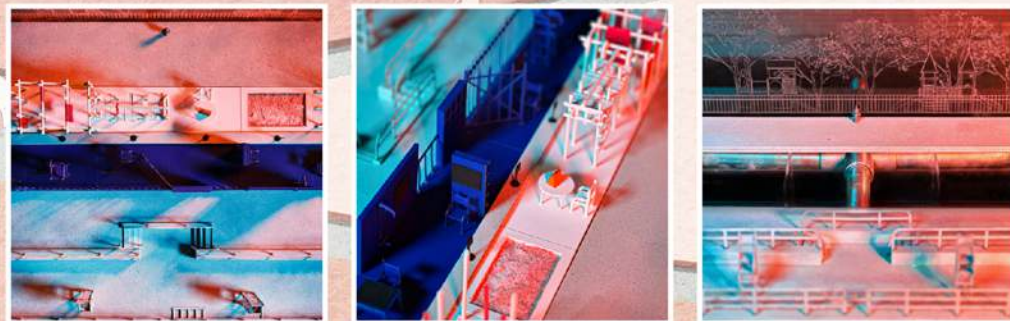
Reenacted zones (Top) at the pool's entrance depict regulatory aspects. Separators, showerheads, lockers, and lifeguard chairs symbolize prohibited activities. Screens with historical context deepen comprehension. Parallel to this, an intervention (Bottom) stirs opposition to these restrictions.



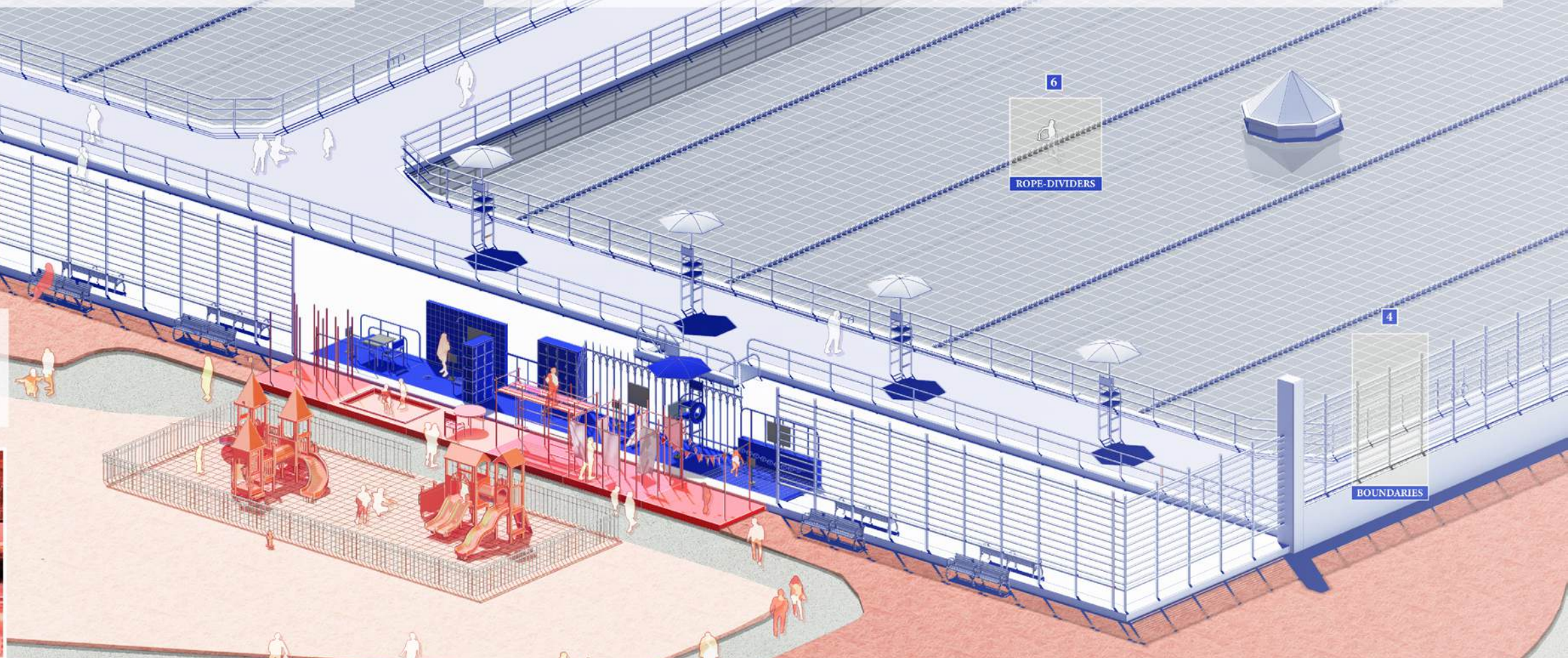
Studying elements evoking opposing actions to pool regulations, correlations emerged with playground behaviors. Juxtaposing divergent pool-playground features replaces boundaries, encouraging interactive engagement and mutual reactions.

Design Proposal

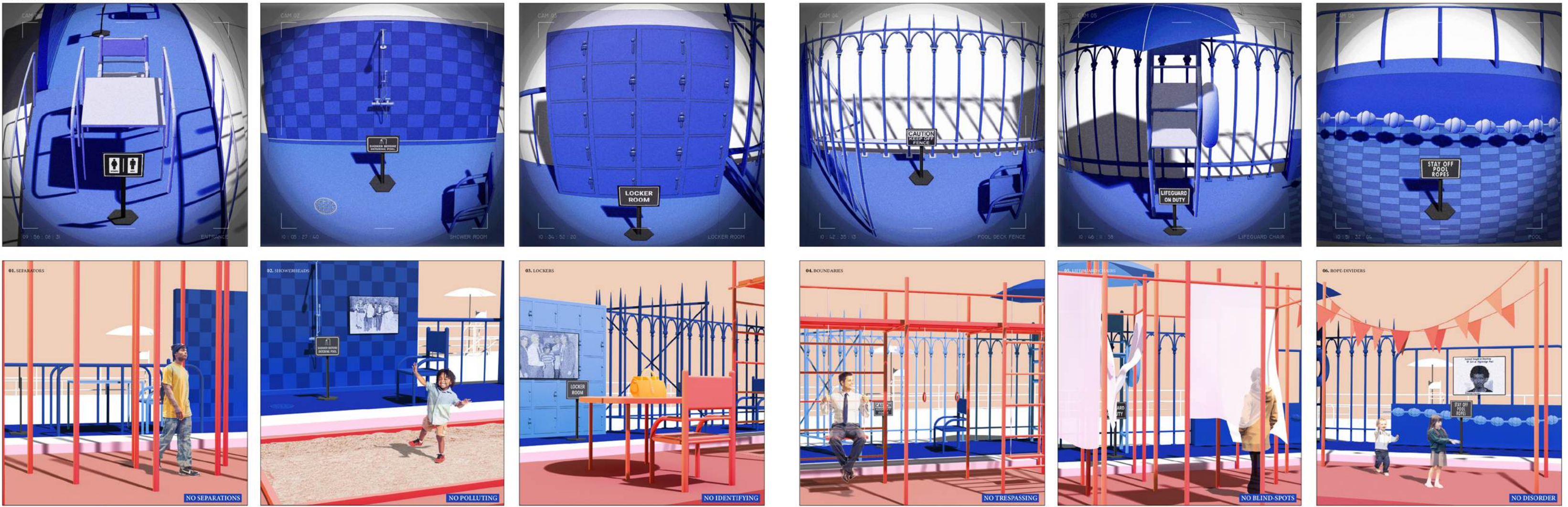
The proposal aims to transform Highbridge Pool from a leisure space to one marked by unlawful activities and regulations. These dynamics have left parallel imprints on the urban landscape. It engages with impromptu actions, where residents repurposed fire hydrants as makeshift pools in rebellion. The pool's rules addressed societal issues but with unintended consequences. The intervention explores these threads without endorsing either. It nurtures interactions while critically examining. This stimulates a fresh perspective, potentially leading to unforeseen outcomes.



Physical Model Photo



4-3. Design Proposal Phase 1 - Highbridge Pool Intervention

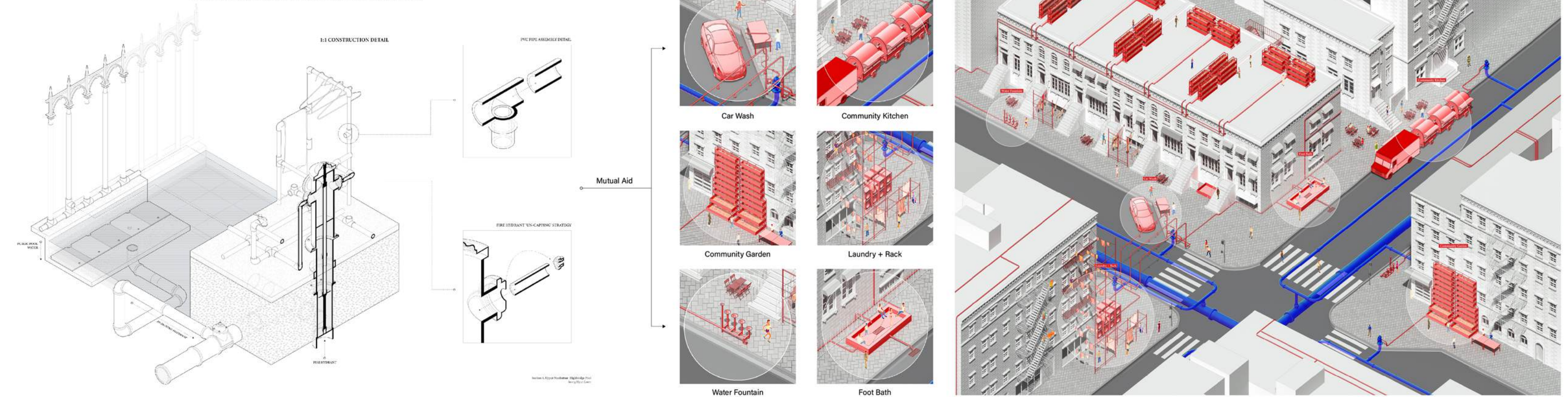


Perspective Drawing. Juxtaposition of the Polarity for Mutual Understanding

The intervention as a hybrid structure acts to provoke the polarity of both aspects. How the visitors respond to the experience and the reaction is not predetermined, but as they stand in opposing positions, they are invited to have a broader mutual understanding.

4-4. Design Proposal Phase 2 - Urban Intervention

Device Hi-Jacking the Water Way to the Street Environment



To intervene in Washington Heights, which provided the fundamental backdrop of the discipline at Highbridge Pool, the water is hijacked in order to be re-distributed to the urban environment. This is connected to the uncapped fire hydrant, which is utilized to promote communal sharing, increase reciprocity, and regain stewardship. Thus, in comparison to the disciplinary and centralized authority at the Highbridge Pool, the uncapping of the fire hydrants provides a lateral system for mutual aid and widespread participation among individuals.

07 Great Falls Green Center Restoration

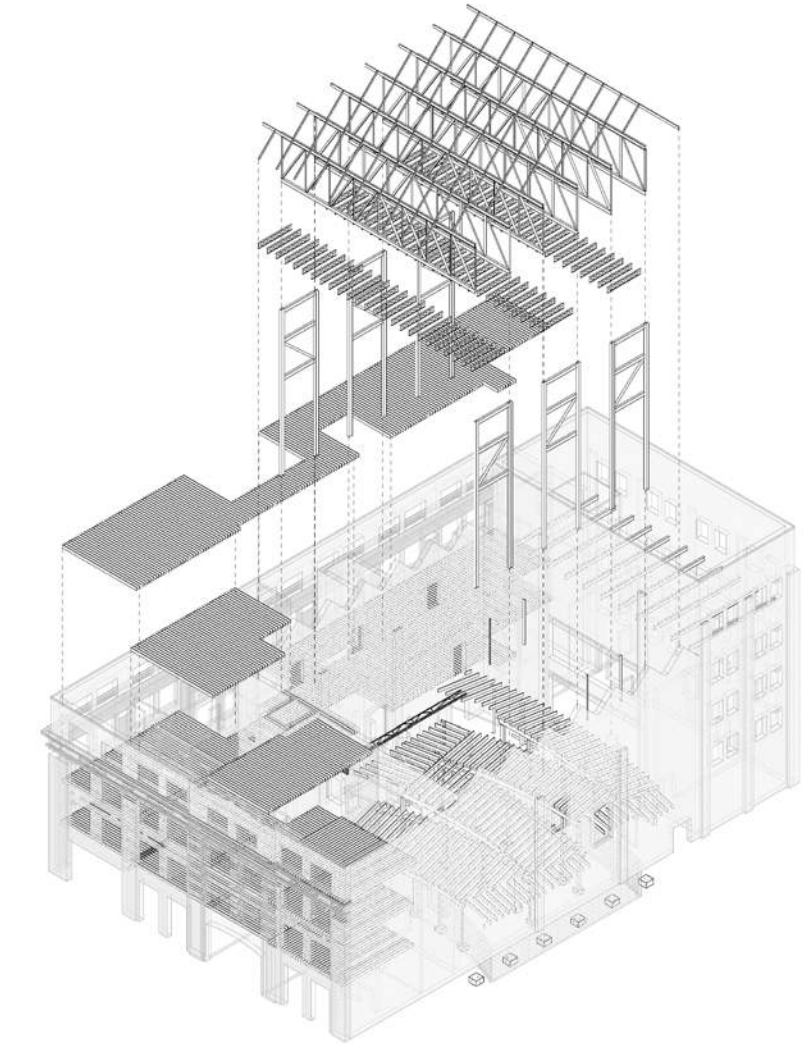
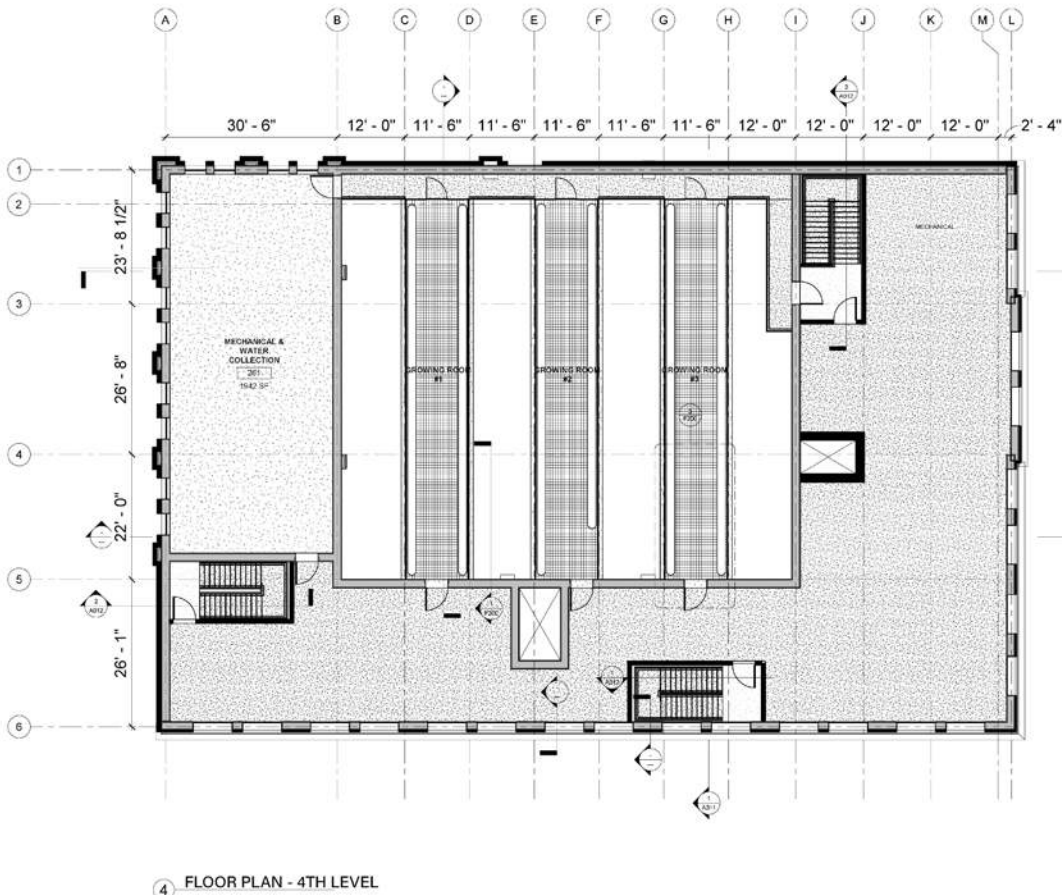
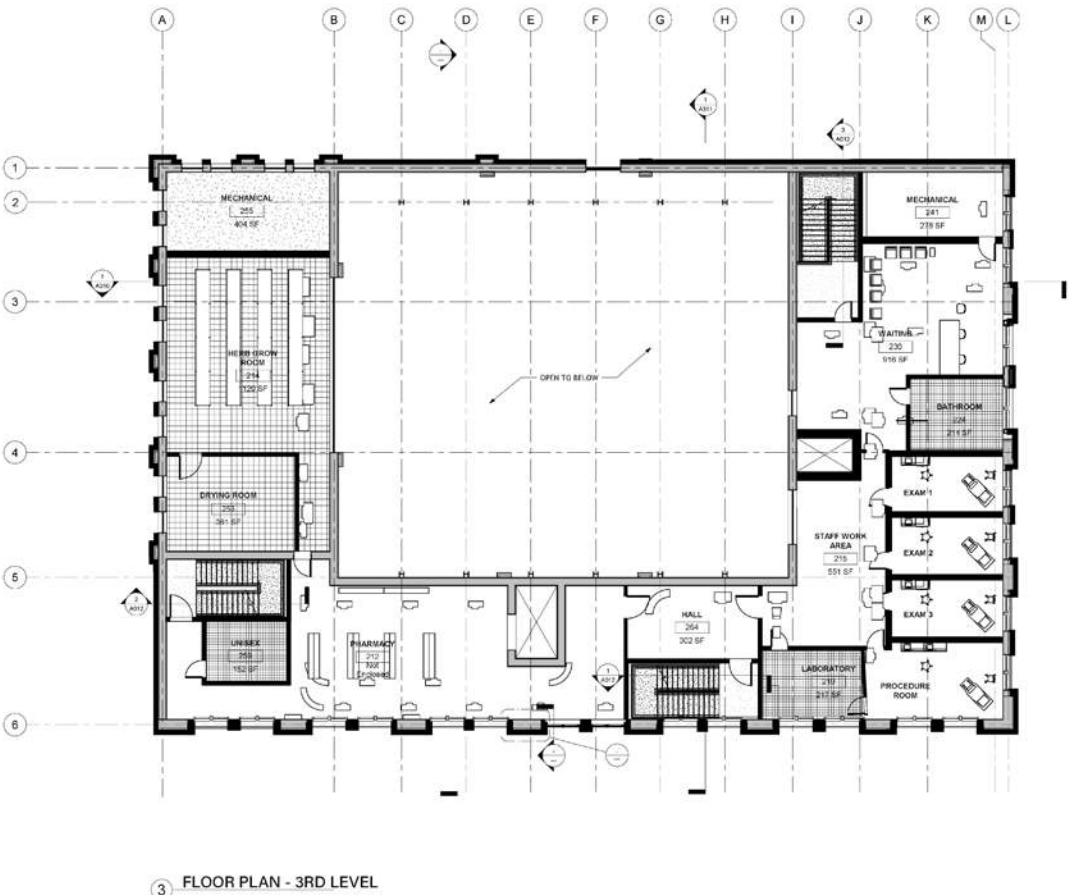
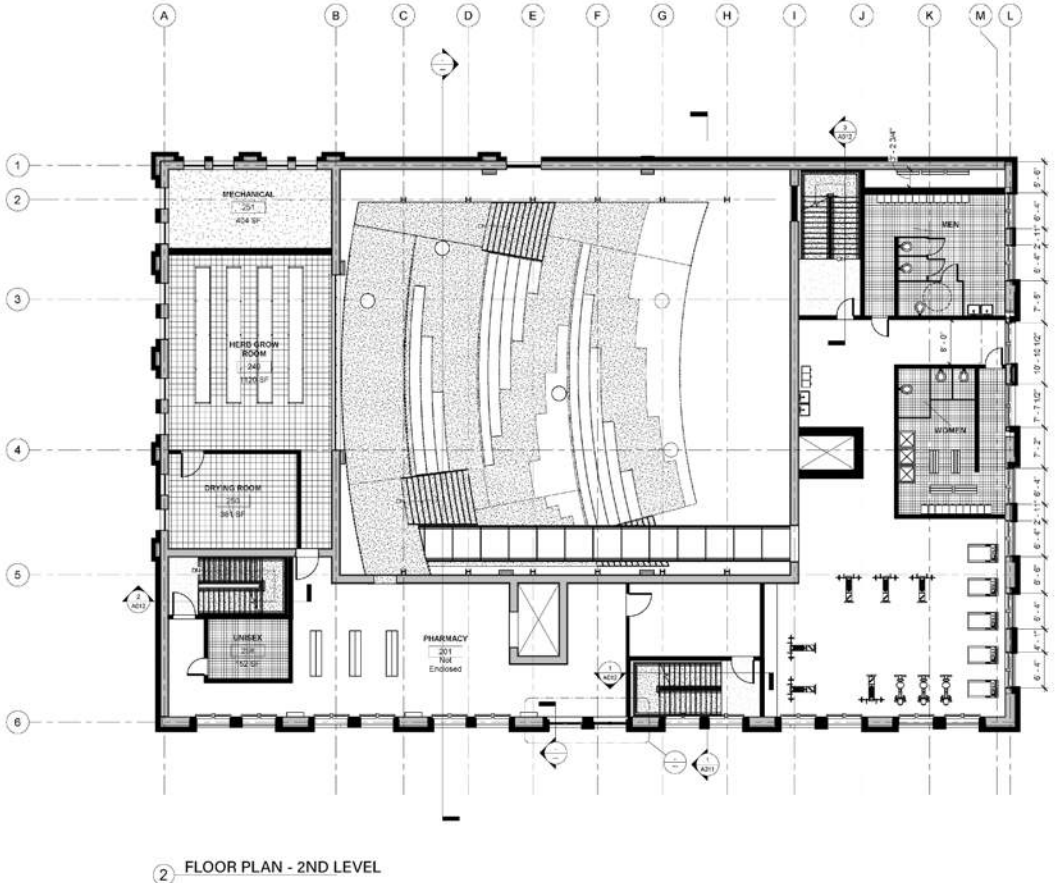
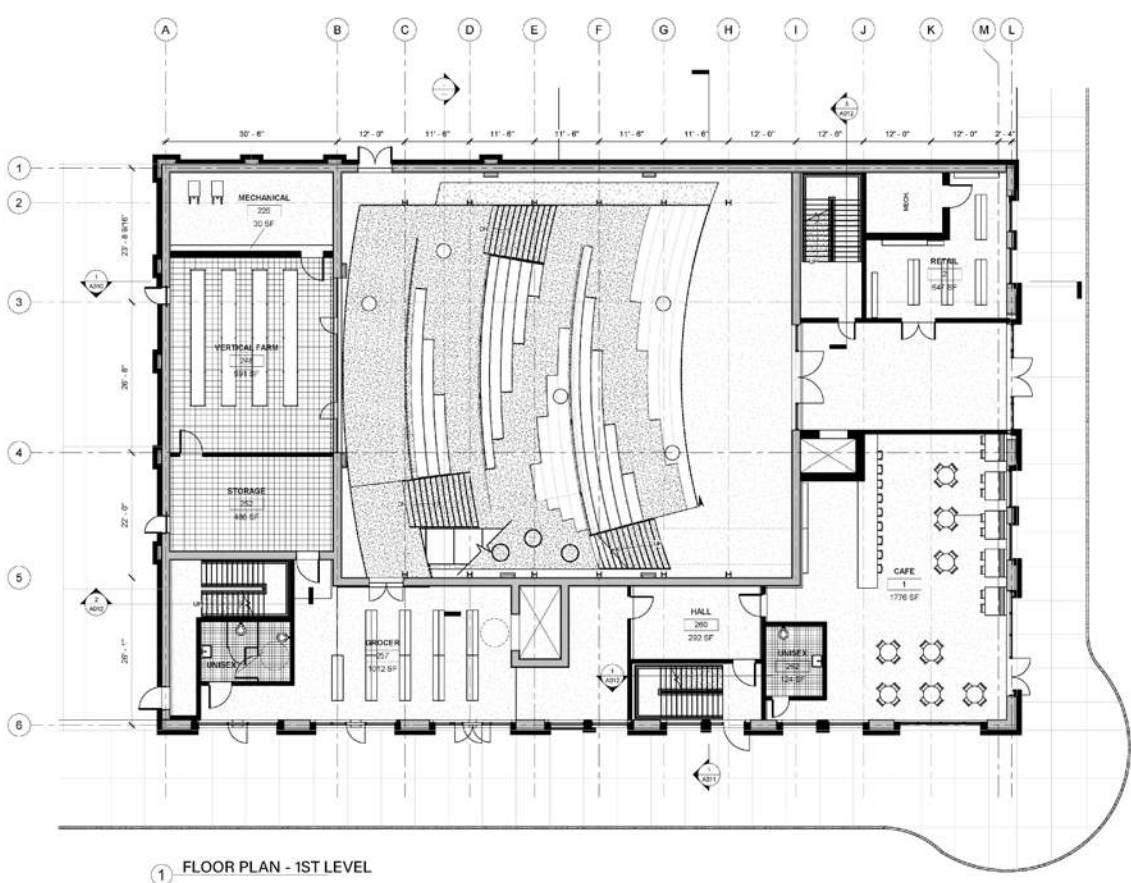
Project - GSAPP Architectural Technology IV

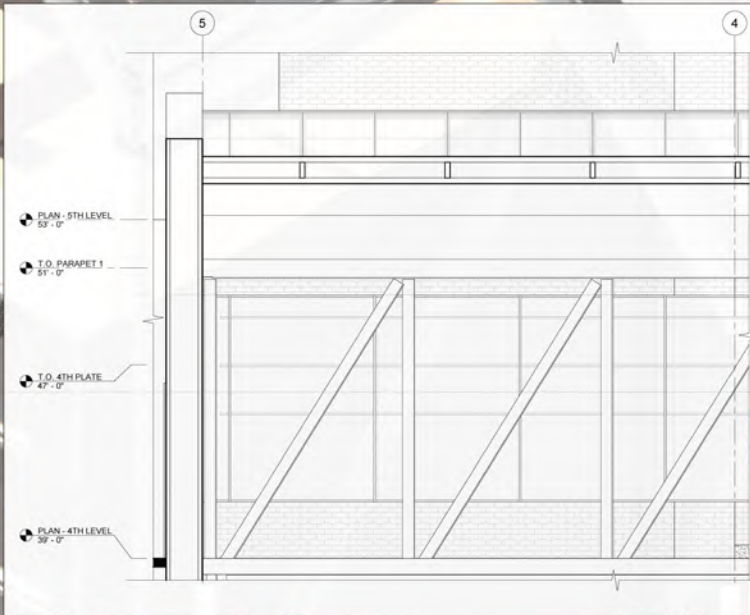
Period : 2nd Year, Fall 2023
Type : Adaptive Reuse (Technical DD Set Drawing)
Category : Academic (Team Project)
Instructor : Stephan Potts, Aaron Campbell, Nathan Vader, Teel Riggs

Project Brief

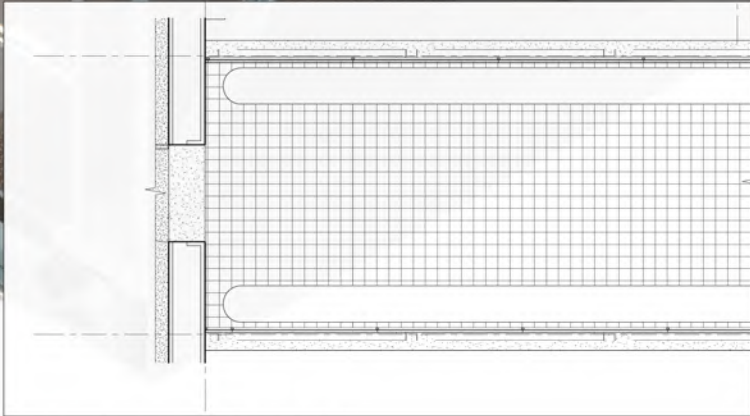
The Proposal is About Re-Interpreting a Former Vaudeville Theater and Pharmacy Building, the Great Falls Green Center in Montana, into an Interior Garden, where the Spectacle Goes From Actors Onstage to the Growth and Production of Crops and Herbal Medicines. The Periphery of the Building Contains a Cafe, Retail, Fitness Center, Pharmacy, and Clinic.

Enclosure System Details Focuses on Two Moments. First is to Retain the Original Appearance of the 1914 Facade while also Addressing the Stresses of Montana's Climate by Overcladding Terracotta on the Facade. The Second system is the Sawtooth Roof that Enables Sufficient Lighting Condition into the Main Insertion which is the Atrium, Inner Garden, and the Green House.

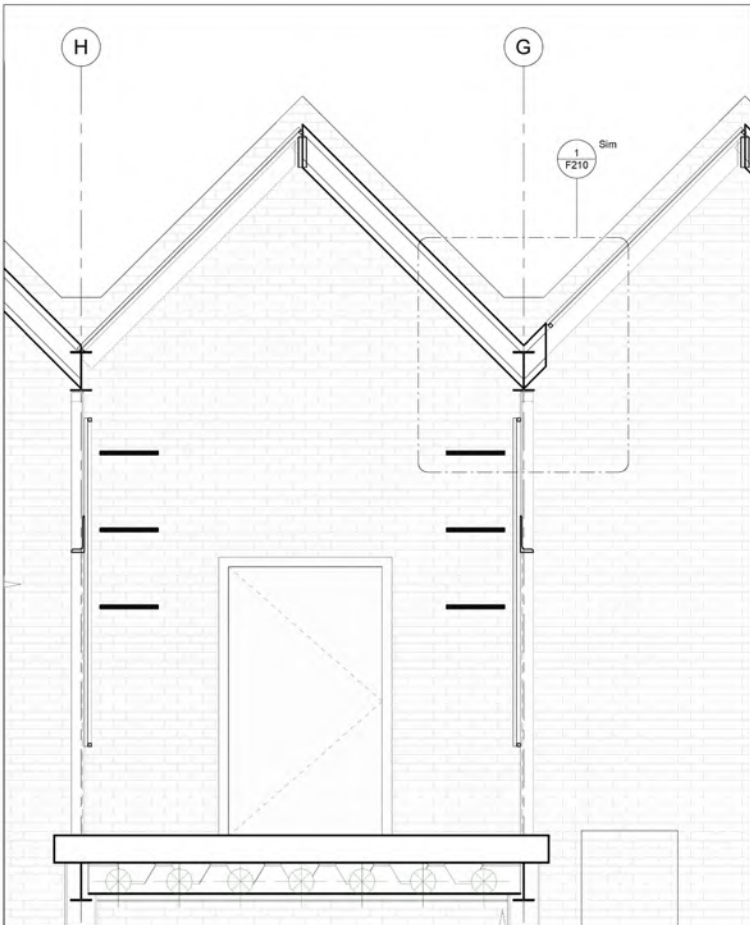




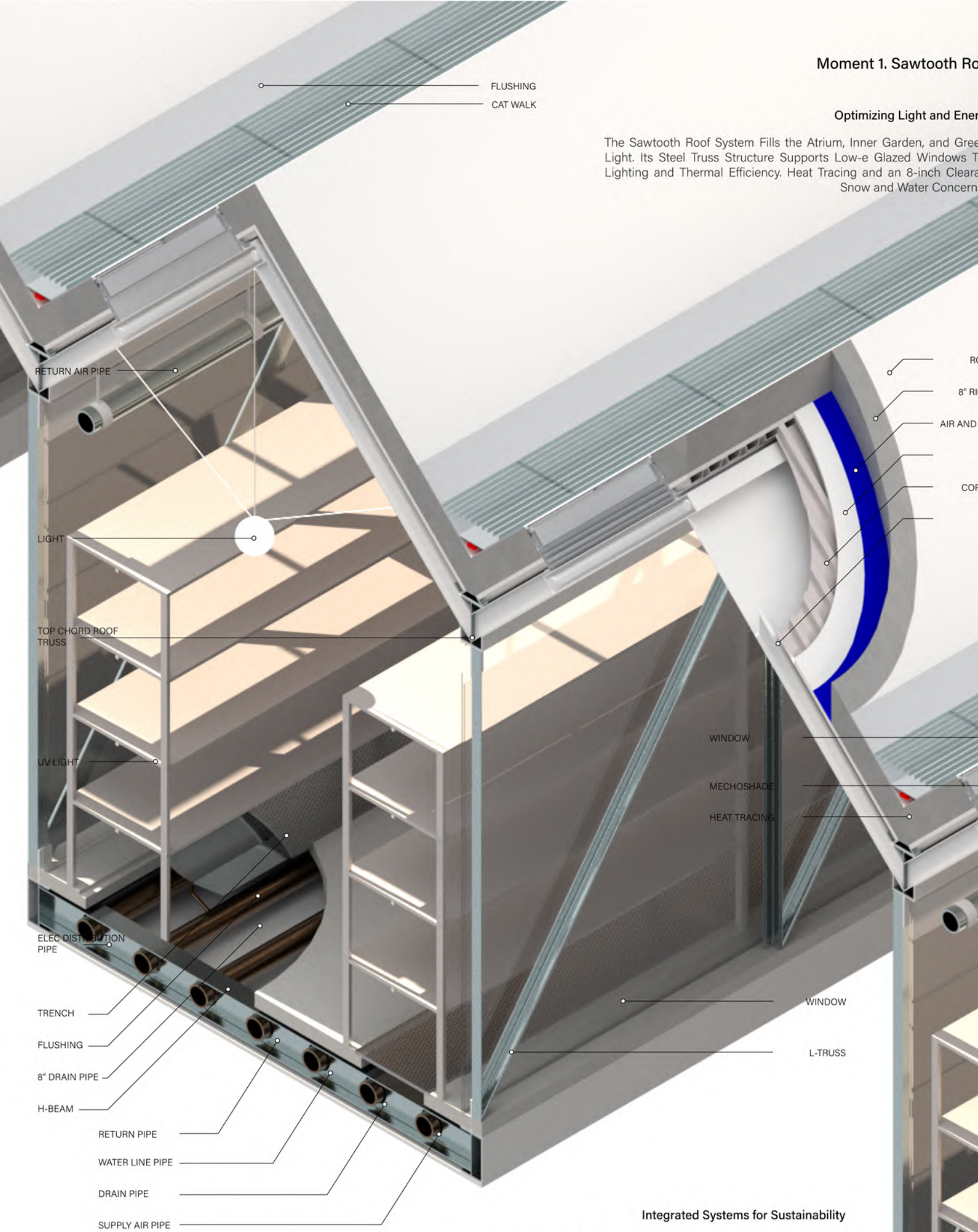
1 ROADMAP - GREENHOUSE TRUSS - ELEVATION



2 ROADMAP - GREENHOUSE TRUSS - PLAN



3 ROADMAP - GREENHOUSE TRUSS - SECTION

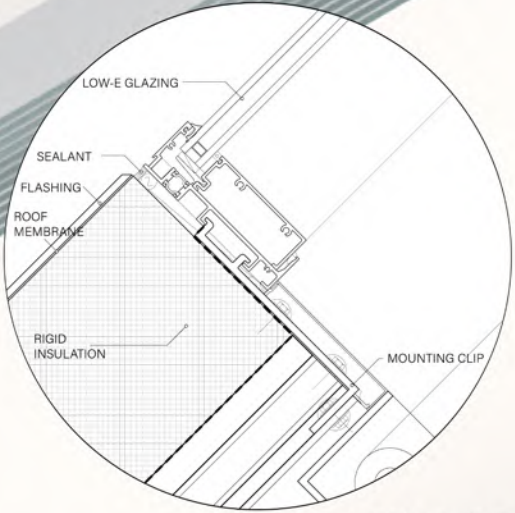


4 ROADMAP - ROOF SYSTEM - SECTIONAL AXON

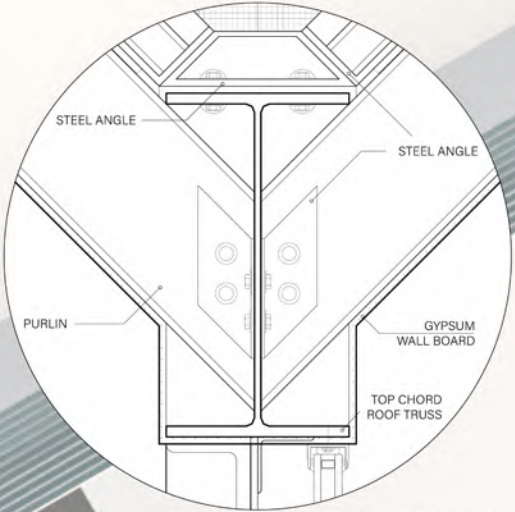
Moment 1. Sawtooth Roof System

Optimizing Light and Energy Efficiency

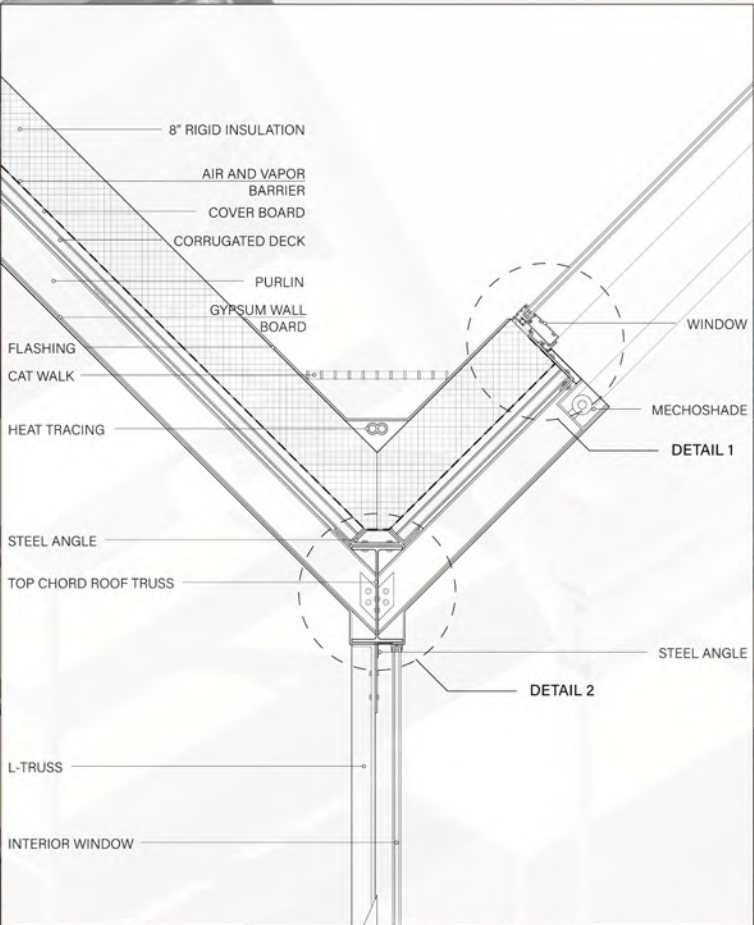
The Sawtooth Roof System Fills the Atrium, Inner Garden, and Greenhouse With Light. Its Steel Truss Structure Supports Low-e Glazed Windows That Optimize Lighting and Thermal Efficiency. Heat Tracing and an 8-inch Clearance Address Snow and Water Concerns in Montana.



5 ROADMAP - ROOF SYSTEM - DETAIL 1



6 ROADMAP - ROOF SYSTEM - DETAIL 2



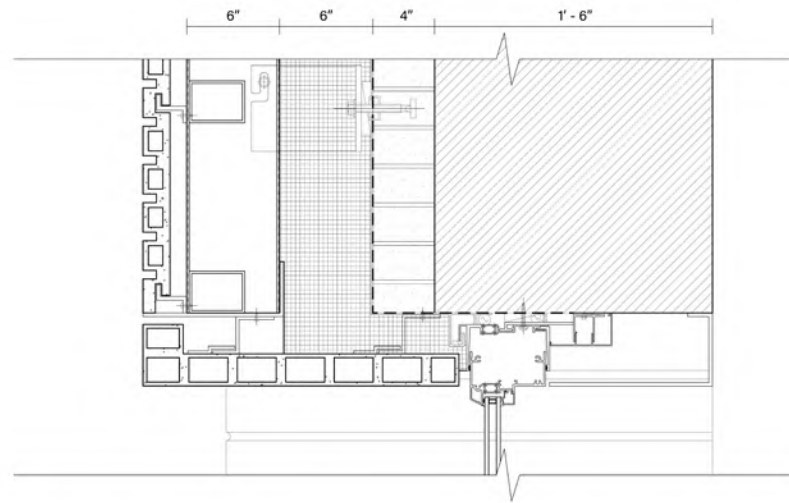
7 ROADMAP - ROOF SYSTEM - SECTION

Integrated Systems for Sustainability

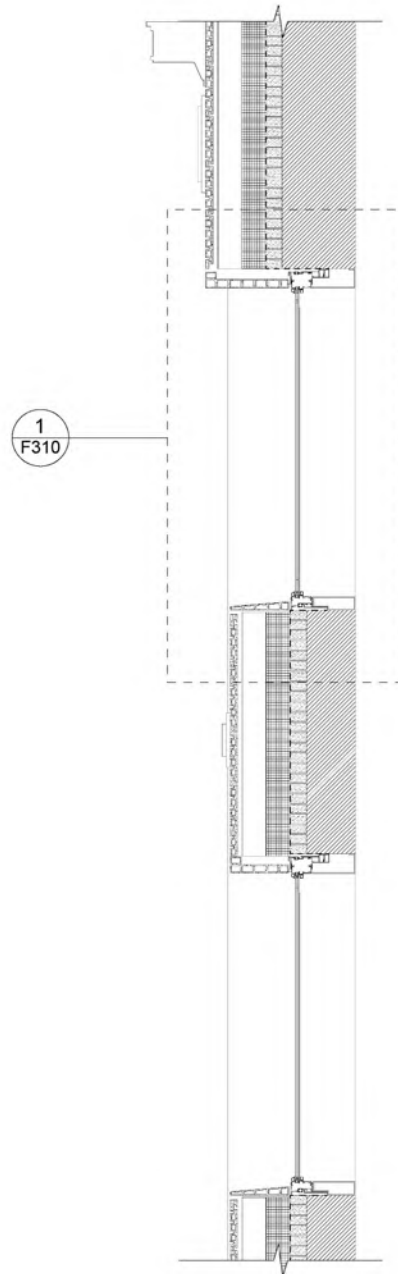
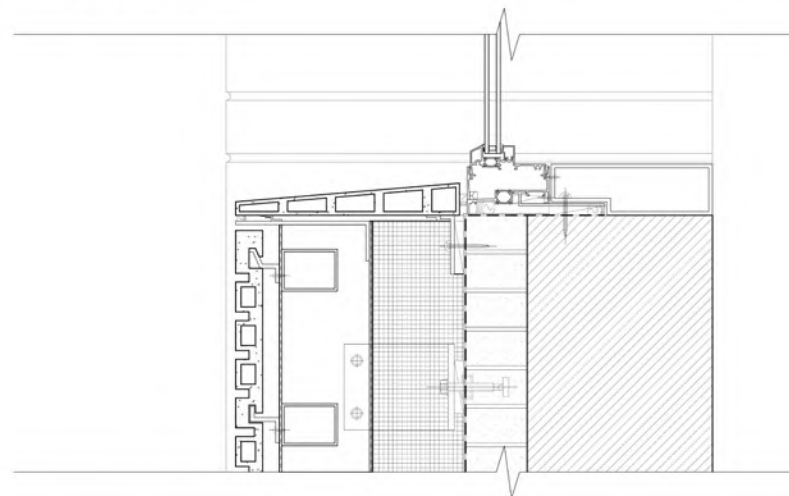
The Roof Assembly Integrates Insulation, Waterproofing, and a Roof Membrane. Cellular Beams Beneath the Greenhouses House Systems Like Hvac and Drainage. This Design Creates a Functional, Sustainable Interior Garden for Crops and Herbal Medicines.



1 ROADMAP - FACADE - ELEVATION



2 ROADMAP - FACADE - DETAIL SECTION



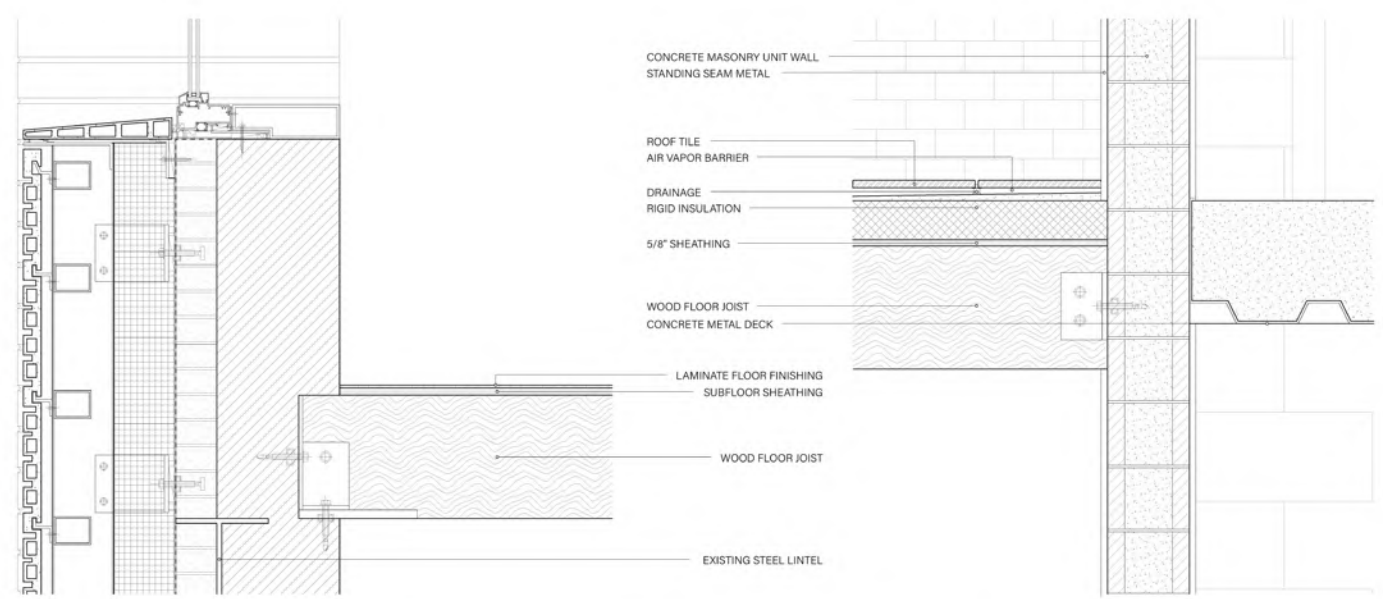
3 ROADMAP - FACADE - SECTION

Moment 2. Terracotta Overcladding

Preserving the Historic Facade

The 1914 Facade of the Great Falls Green Center is Preserved Using an Overcladding Terracotta System. Steel Ladders Align With the Original Proportions, Supporting Modular Panels That Replicate Historic Ornamentation and Color. This Strategy Ensures the Facade Retains Its Charm While Addressing Montana's Climatic Challenges.

Layers Include Mineral Wool Insulation, Steel Ladders, and Terracotta Overcladding Anchored to the Brick Wall. Wausau Invent Windows Improve Thermal Performance While Integrating Into the Historic Aesthetic. The Design Successfully Balances Preservation and Modern Performance.



4 TYPICAL EXTERIOR WALL TO SLAB CONNECTION

5 TYPICAL WALL TO ROOF CONNECTION



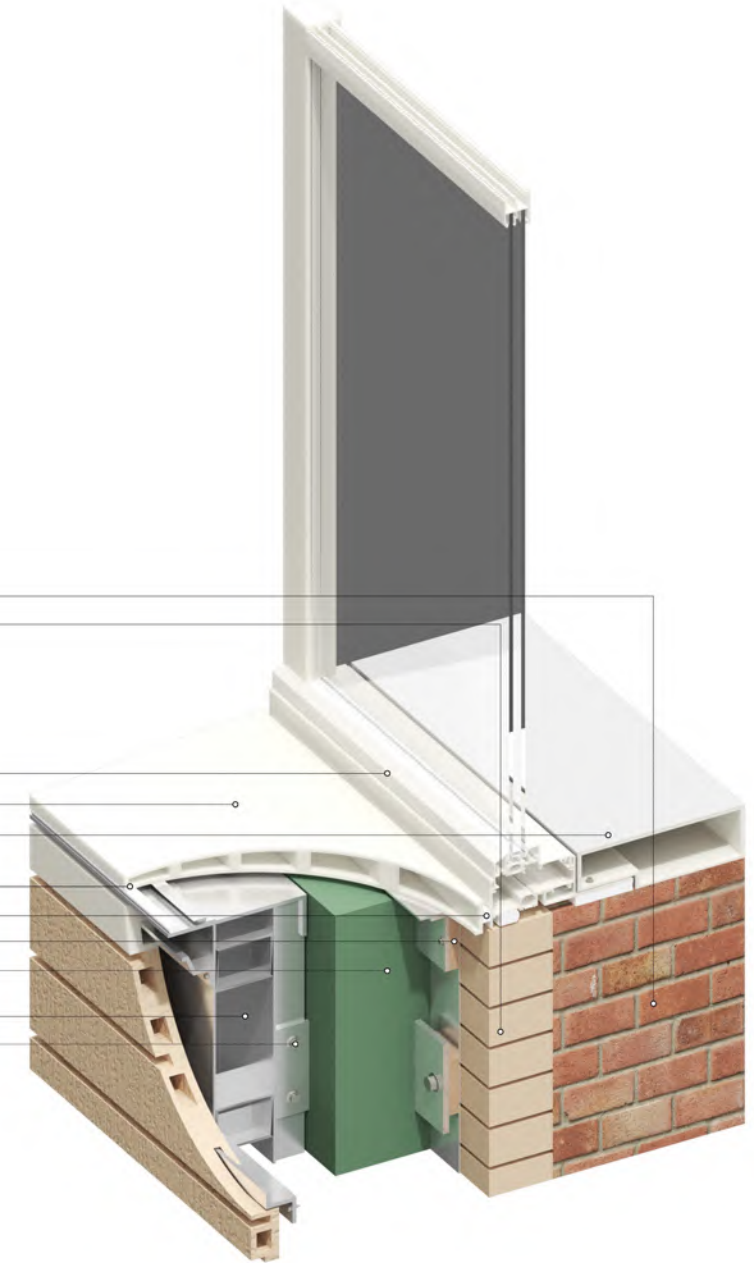
6 FACADE INSTALLED AXONOMETRIC

EXISTING LAYERS

EXISTING STRUCTURAL WALL
EXISTING BRICK FACADE

ADDED LAYERS

WAUSAU INVENT (XLT-RETRO) WINDOW
TERRACOTTA WINDOW SILL
AIR SEAL
SEALANT
WEATHER SEAL
WOOD SHIM
MINERAL WOOL INSULATION
STEEL LADDER
DEADLOAD ANCHOR



7 FACADE CUTAWAY SECTION

08 Net / Works

Project - GSAPP Tech Elective Waste / Works

Period : Spring, 2025
Type : Bio-Material
Category : Academic (Collaboration with Pimchid Chariyacharoen)
Instructor : Amelyn Ng
Keywords : Safety Net Replacements, Bio-Plastic Net

Project Brief

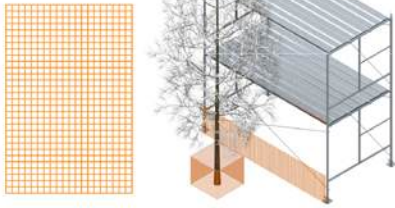
This Project Reimagines Disposable Scaffolding Nets as Biodegradable, Life-supporting Infrastructure. Made From Natural Bioplastics, the Net Captures Debris While Holding Soil and Supporting Milkweed Growth—habitat for Endangered Monarch Butterflies. It Transforms Wasteful Construction Element Into a Temporary Urban Ecosystem That Safely Decomposes, Enriching the Environment and Fostering Coexistence in New York City's Built Landscape.

Safety Net Typologies: What Does it Capture?

The Project Began by Categorizing the Various Types of Safety Nets Commonly Used on Scaffolding Sites, Examining Their Materials, Mesh Sizes, and the Specific Elements They Are Designed to Capture—ranging From Debris and Tools to Serving as Visual Barriers. This Analysis Expanded the Understanding of What a Net Could Hold, Revealing New Potentials Beyond Conventional Safety Applications.

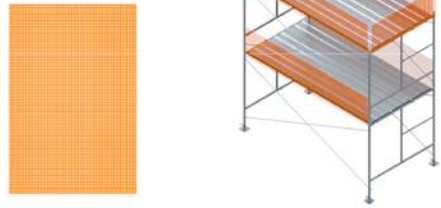
1 High-Visibility Safety Net

Material : HDPE with UV Inhibitors
Hole Size : 1/4" x 1/4"
Elongation : X
Purpose : Visual Barrier



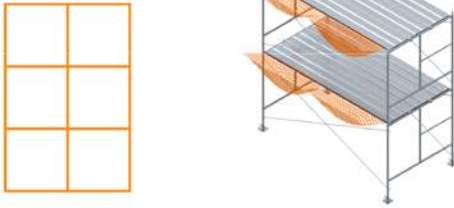
2 Debris Safety Net

Material : Knitted HDPE with UV Treatment
Hole Size : 1/16" x 1/16"
Elongation : ASTM D-5034 (Debris)
Purpose : Guardrail Debris Protection




3 Personnel Safety Net

Material : Type 6.6 Nylon with UV Inhibitors
Hole Size : 2-3/4" x 2-3/4"
Elongation : ANSI A10211
Purpose : Worker Protection (Higher than 30 Feet)




4 Scaffold Sheet

Material : Reinforced Polyethylene / PVC
Hole Size : X
Elongation : ASTM E84
Purpose : Weather, Dust Protection




5 Poly Sheet

Material : 2 Layers of Polyethylene
Hole Size : X
Elongation : ASTM E84
Purpose : Enclosure Covering, Fire Protection



6 Privacy Net

Material : High Density Knitted Polyethylene
Hole Size : 1/7" x 1/12"
Elongation : ASTM D-5035
Purpose : Privacy



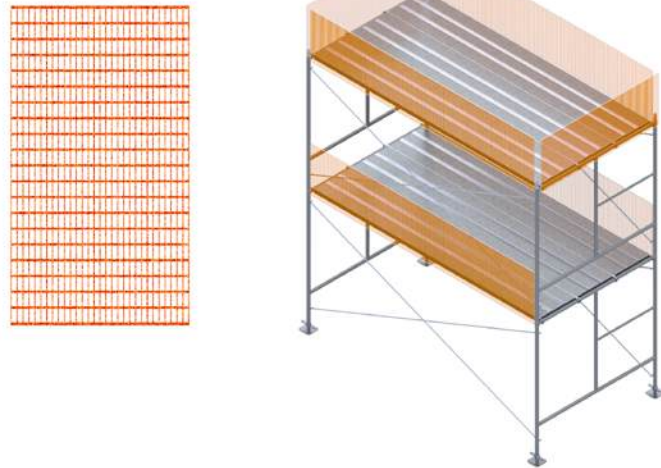
Inventory Drawing of Existing Safety Nets

Living Scaffold: Bioplastic Net as Urban Habitat

By studying these functions, the net was reconceived as a structure capable of supporting soil and plant life. Made from a biodegradable mixture of glycerine, gelatin, and potato starch, the resulting bioplastic net not only serves protective purposes but also acts as a suspended planter, suggesting real-world applications where scaffolding can temporarily foster micro-ecologies within the urban environment.

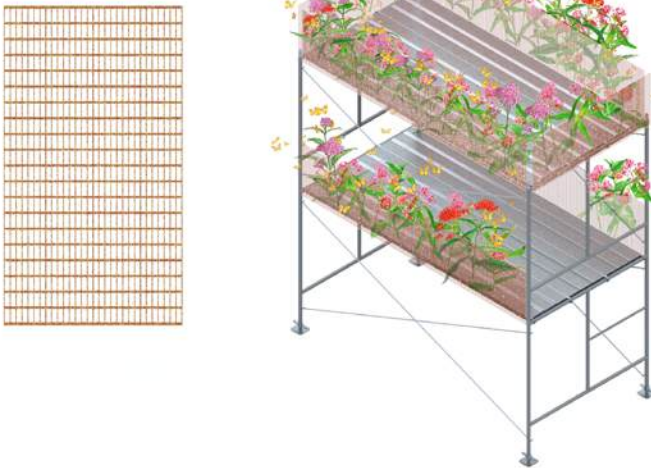
1 Bio-Plastic Net

Recipe : Gelatin, Glycerin, Potato Starch, Tangerine Peel
Hole Size : 1" x 3"
Purpose : Visual Barrier / Debris Protection



2 Nutrient Net

Recipe : Gelatin, Glycerin, Potato Starch, Coffee Grounds, Eggshells
Hole Size : 1" x 3"
Purpose : Planter / Debris Protection



Invention Drawing of Project



Installation Photo on Scaffolding Site

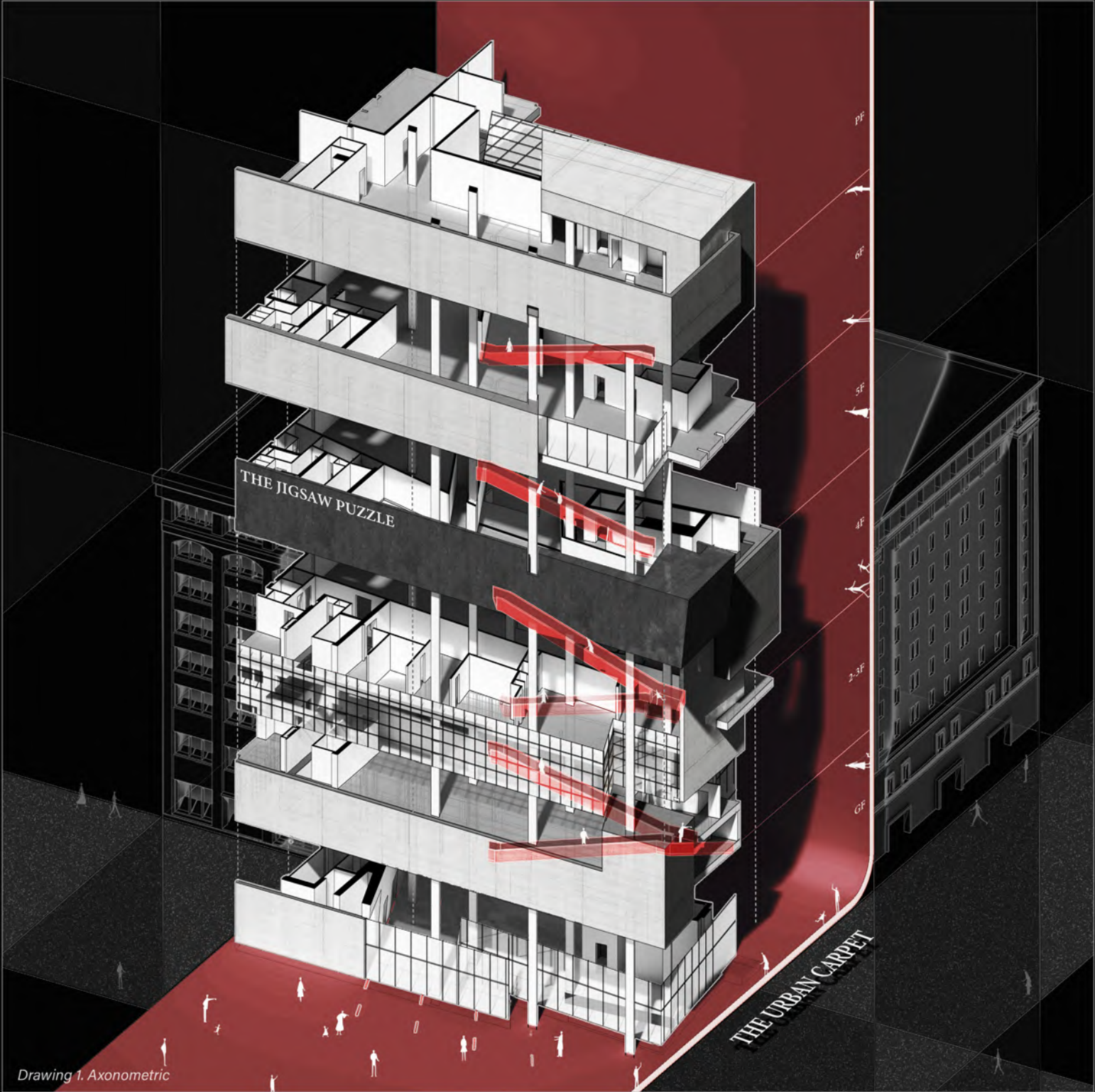
09 Rosenthal Contemporary Arts Center

Project - GSAPP Architectural Drawing and Representation I

Period : 1st Year, Fall 2022
Architect : Zaha Hadid Architects
Type : Architectural Representation
Category : Academic
Instructor (Coordinator) : Zachary White (Josh Uhl)

Project Brief

This Project Reinterprets the Rosenthal Contemporary Arts Center by Zaha Hadid Architects, Emphasizing Its "Urban Carpet" Concept. It Reimagines the Seamless Flow Between the Street and Interior, Encouraging Pedestrian Movement. The Design Transforms the Structure Into Interlocked, Jigsaw-like Forms, Symbolizing the Integration of Urban Life With Cultural Spaces, Enhancing Connectivity and Engagement.



Drawing 1. Axonometric



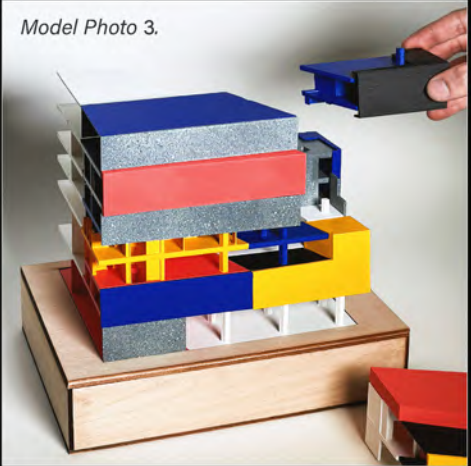
Drawing 2. Section



Model Photo 1.



Model Photo 2.



Model Photo 3.

10

Tension Imprint

Tensile and Compression System



Period : 3rd Year, Fall 2024
Type : Structural Model Project
Category : Academic (Team Project)
Instructor : Robert Marino

Project Brief

This Project Investigates Tension Forces through Fabric Molds and Concrete Casting. Drawing Inspiration From the Tension of Plastic Wrap Stretched Over a Bowl, an Adjustable Frame With Perforated Sides Was Developed to Secure Fabric in Variable Configurations, Creating Controlled Wrinkles. A Central Aperture Enabled the Pouring of Concrete, Solidifying the Fabric's Tension Into Permanent Forms. By Adjusting the Frame and Altering the Aperture's X-Y-Z Positioning, the Exploration Generated a Series of Distinctive Concrete Geometries, Translating Flexible Tension Into Rigid Compression.



4 Imprinted Geometry

Selected Works 2022 - 2025
Seong Hyun Leem

Master of Architecture Candidate, Columbia GSAPP