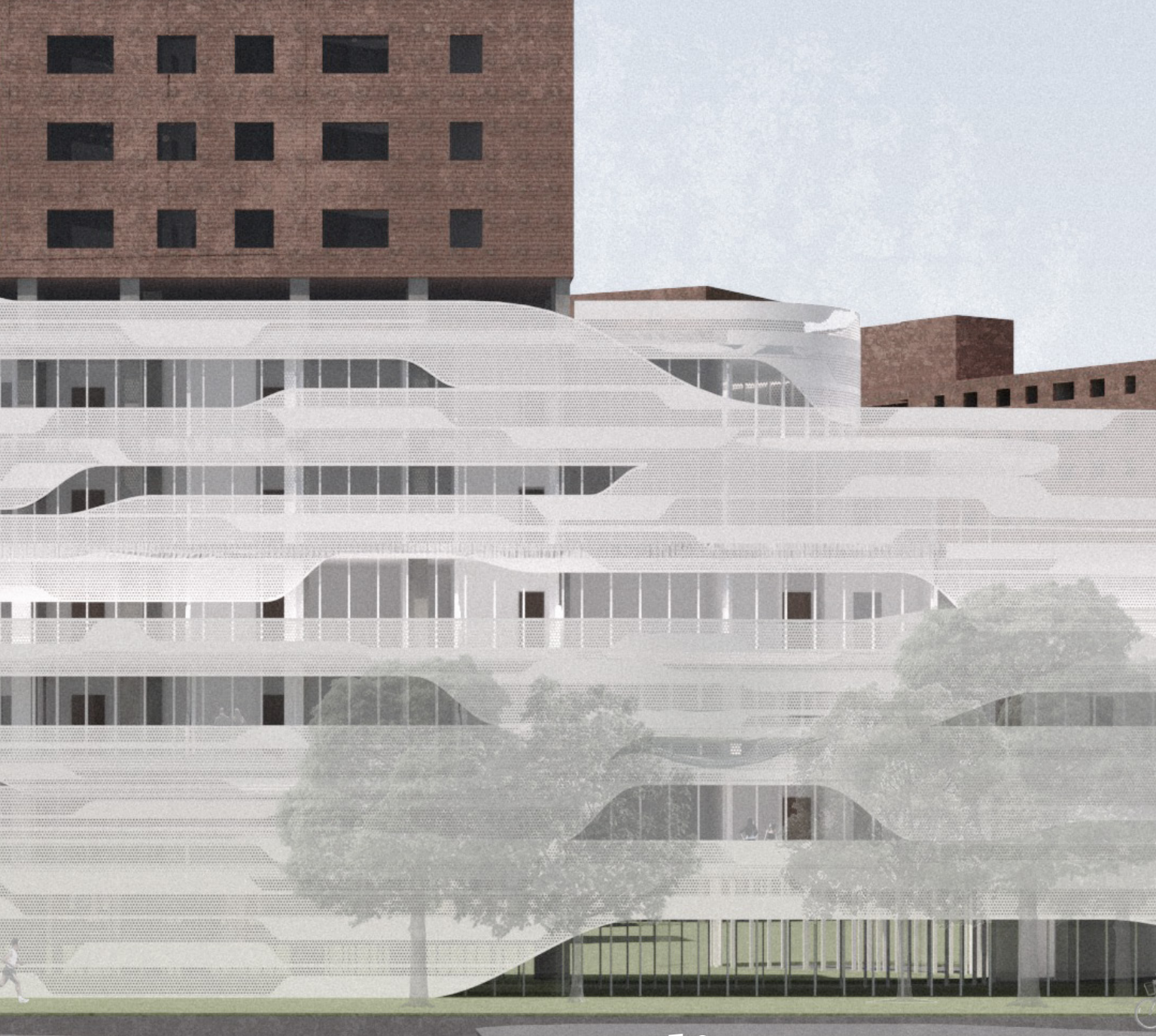


Colin House

Architectural Design Portfolio

With a Master of Architecture from Pratt Institute and a B.A. in Architectural Studies from Boston University, I bring a background spanning architectural design, urban design, and historic preservation. Combined with my professional experience in both the public and private sectors, I am eager to contribute my skills and passion for thoughtful, context-driven design.

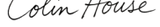
My professional background began in the public sector in Boston, first at the Boston Landmarks Commission and later at the Boston Planning and Development Agency. It was through these experiences that I solidified my love for urban-scaled projects and refined my skills in visual communication and design. In New York, I was able to apply these skills at Huniford Design Studio, where I deepened my experience in the private sector by engaging with clients and stakeholders at the scale of interior design.

My academic work has been focused on urban design, historic preservation, and the public realm. My time at Pratt Institute has reinforced my appreciation for interdisciplinary collaboration and context-driven thinking across scales.

I am eager to apply my technical proficiency, problem-solving abilities, and passion for design to contribute meaningfully to a collaborative team.

I welcome any opportunity to discuss how my experience and design perspective might be of value. Thank you for your time and consideration.

Best,



Colin House

Architectural Designer

Brooklyn, NY | colin.r.house@gmail.com | www.linkedin.com/in/colin-house

EDUCATION

Pratt Institute, Masters Architecture — **Brooklyn, NY | 2023 - 2026**
3.9 GPA | With Distinction

Boston University, B.A. Architectural Studies — **Boston, MA | 2019 - 2023**
Minors *Urban Studies | Visual Arts*
3.8 GPA | Magna Cum Laude

PROFESSIONAL AND ACADEMIC EXPERIENCE

Huniford Design Studio, *Interior Design Intern / Freelance Designer* — **New York, NY | Jun 2025 - Oct 2025**

- Drafted floor plans and interior elevations for multiple projects on AutoCAD for use by clients, contractors and internal staff for installation, fabrication and design approval during all stages of project design.
- Designed multiple interior and exterior renderings on photoshop for proposed architectural and interior design schemes to send to clients for approval and for contractor use during installation and fabrication process.

Pratt Institute Architecture Production Facilities, *Student Worker* — **Brooklyn, NY | Sep 2023 - Jun 2025**

- Independently managed and operated student files on fabrication machines to effectively complete submissions in a timely manner while communicating with students and aiding in their design process.
- Operated and maintained machinery such as ABB robotic arm, laser cutters, TECHNO LC 4896, TECHNO HD-II, and Armor 3024 CNC routers to instruct and assist student's in experimentations.

Boston Planning and Development Agency (BPDA), *Urban Design Intern* — **Boston, MA | Jan 2023 - May 2023**

- Engaged directly with external parties in the city's Article 80 design review process where proposed developments are critiqued against city code and zoning laws, as well as design specifications for each neighborhood.
- Conceptualized and distributed graphics for the department's "Boston Design Vision" in which reports were made for each neighborhood, detailing architectural details and characteristics to promote vernacular design.

Boston Landmarks Commission (BLC), *Preservation Planning Intern* — **Boston, MA | Jan 2022 - June 2022**

- Completed an independent research report on Boston's "ghost signs" that cataloged each vintage hand painted advertisement in the city' location, meaning and genealogy of its artist to promote the existence of these cultural resources within a single document to promote their preservation.
- Developed a comprehensive list of street signage location and condition in the South End Historic District to work with the Boston Transportation Department in designating historic neighborhood district signage.

ACHIEVEMENTS, AWARDS & PUBLICATIONS

Pratt Institute, *Publication: Prattfolio* — **Pratt Institute | Fall 2025**

- Featured in Pratt's institute-wide magazine, Prattfolio, in an article for the project Stack Bond, a robotic clay extruded facade concept completed in the course Mediums 3: Fabrication.

Pratt Institute GALAUD, *Publication: In Process 29* — **Pratt Institute | Spring 2026**

- Featured five times in Pratt's yearly publication, In Process, for independent academic work completed in Studios 1-6 and supplementary courses.

Boston University Brown/Weiss Award, *Scholarship & Award* — **Boston U. | Fall 2022**

- Awarded based on the work Downtown Boston Ghost Signs, an independent study completed during an internship at the Boston Landmarks Commission.

Historic New England Summit Scholarship, *Scholarship & Award* — **Worcester, MA | Fall 2022**

- Awarded by the Historical New England Heritage to attend their first annual Summit of Preservationists to discuss 21st-century issues transforming architecture's history, teaching, and material culture.

SOFTWARES & SKILLS

- Rhino 8
- Revit 2024
- AutoCAD 2026
- V-Ray for Rhino
- Enscape
- Adobe Creative Suite
- 3D modeling/printing
- Drafting
- Google/Microsoft Suite

Colin House

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443.465.1775

linkedin.com/in/colin-house

Contents

1 **Urban Edge**
Spring 2025

2 **The Canals**
Spring 2026

3 **Non-Invasive Architecture**
Fall 2024

4 **Stack Bond**
Spring 2025

5 **First as Main**
Spring 2026

Urban Edge

Course
ARCH 703 Design 3: Urban Qualities & Materialities

Instructor
Erich Shoenenberger

Partner
Deniz Tokman

Site
Red Hook, Brooklyn, NY

Term
Spring 2025

Softwares
Rhino, Grasshopper, Creality Print, Illustrator, Photoshop, V-Ray, Climate Studios, Excel

How can contemporary practices in sustainability be expressed architecturally?

How do circulation, program and site communicate ideas?

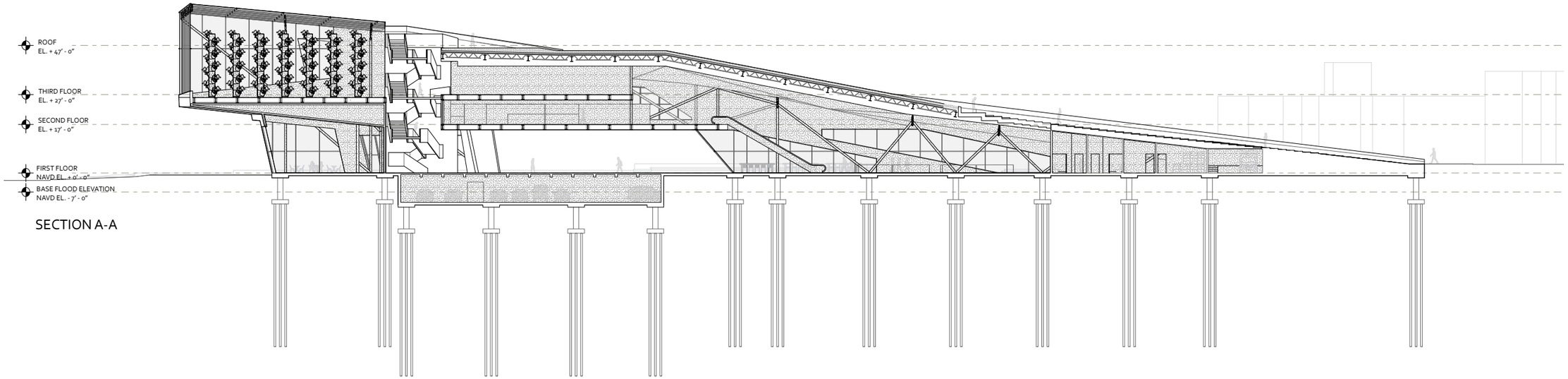
Situated on the shoreline of Red Hook, Urban Edge is a mixed-use industrial composting facility, commercial and public greenhouse space, and public market setting.

The focus of the project was to incorparate the building's identity within the landscape of Red Hook. Formally the building is defined by a double axis layout, and in terms of circulation, the building allows for a continuous motion up, down, through and around itself.

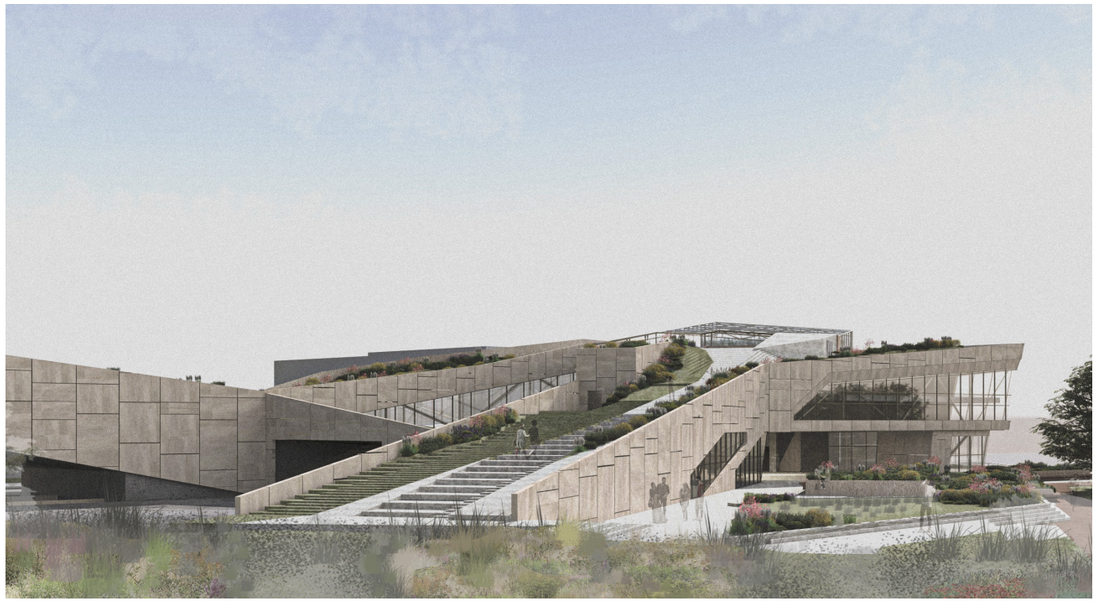
Studio 4 is Pratt's most comprehensive semester, with the addition of consultants in specialized fields of facade design, structural engineering and MEP.

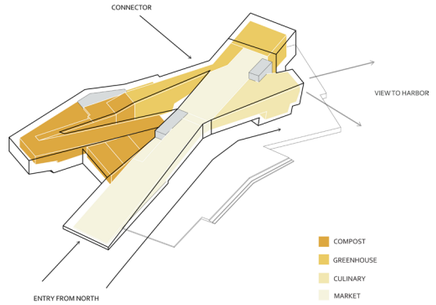
Perspective Render (Opposite Page)
Created with Deniz Tokman

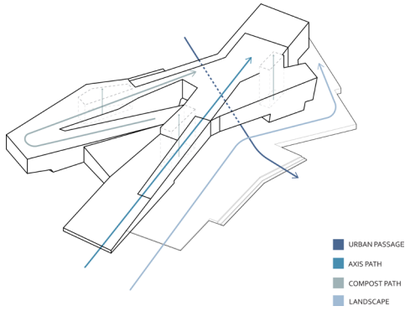
A birds eye view of the project highlights the building's double axis formation, along with it's integrated green roof and waterfront circulation conditions.



SECTION A-A







Programmatically, Urban Edge contains an (1) industrial urban composting facility; (2) a commercial greenhouse; (3) a public greenhouse; (4) a public market hall; and (5) a culinary educational facility.

Situated within Red Hook, Brooklyn, the project utilizes a double axis formation to respond to site conditions and facilitate the exploration of pedestrian circulation. Along the waterfront is a landscaped promenade that wraps around the building, connects directly into the water, and joins with a newly added ferry terminal.

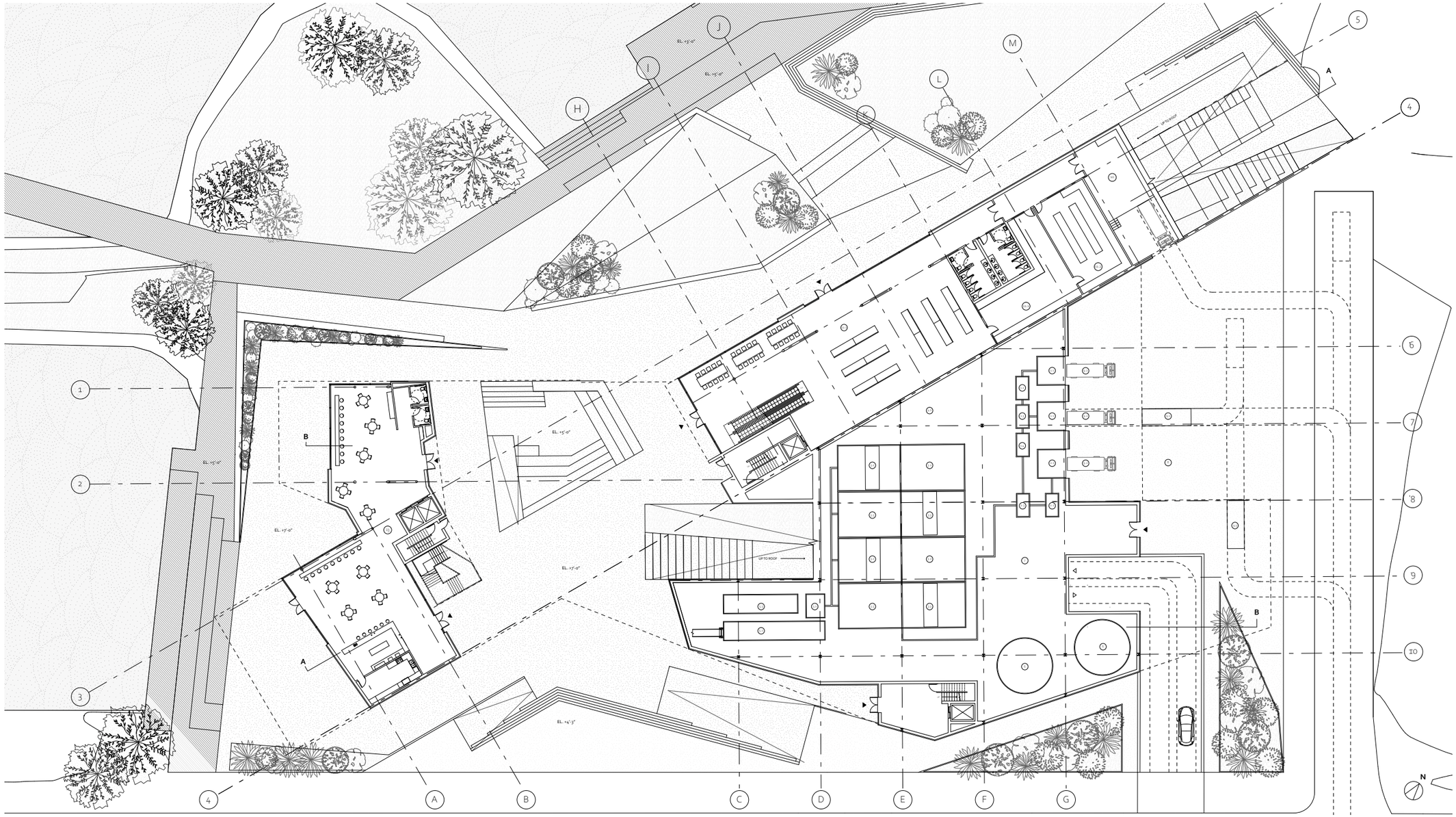
Main explorations in circulation are within the building's green roof, which allows users to ascend and descend the building. This dynamic play of circulation allows for users to become familiarized with the more industrial processes of composting and growing produce, which are otherwise restricted areas.

The entire building is a culmination of various systems that feed off each other and influence each other's well being; taking in excess food waste from the neighborhood, and producing wildlife for the coastlines it edges.

Index

a. Building Section
b. Exterior Render
c. Program Diagram
d. Circulation Diagram

a
b c d



COMPOST / 30,000 sf

1) INTAKE - FOOD PROCESSING
1.1 - COLLECTION TRAY
1.2 - SORTING / DEBRIS REMOVAL
1.3 - GRINDER / SHREDDER
1.4 - OIL & WATER SEPARATOR

2) INTAKE - MULCH
2.1 - MULCH COLLECTION
2.2 - MULCH SHREDDER
2.3 - MULCH & COMPOST MIXER

3) AERATED COMPOSTING BINS
3.1 - CONVEYOR
3.2 - AERATED COMPOSTING BINS
3.3 - COMPOST MIXING AUGER

4) OUTGOING COMPOST
4.1 COMPOST BAGGING

5) AIR CLEANING & EXTRACTION
5.1 NEGATIVE PRESSURE DUCT & FAN
5.2 CO_2 FILTER
5.3 AIR BIOFILTER

6) WASTE WATER PROCESSING

7) MATERIAL HANDLING & SERVICE ZONE

8) CONTROL AREA

9) TRUCK ACCESS
9.1 TRUCK WEIGHING STATION
9.2 TRUCK BAYS
9.3 TRUCK WASHING STATION

MARKET / 22,500 sf

10) DELIVERY - 1,000 sf

11) STORAGE
11.1 - MAIN STORAGE - 1,120 sf
11.2 - COLD STORAGE - 1,000 sf

12) FOOD VENDORS
12.1 - TEMPORARY - 5,000 sf
12.2 - PERMANENT - 10,000 sf

13) CAFE / BAR - 4,300 sf

GREENHOUSE / 27,600 sf

14) COMMERCIAL GREENHOUSE - 8,600 sf
14.1 - OFFICES - 1,000 sf

15) PUBLIC GREENHOUSE - 5,700 sf

16) STORAGE
16.1 - MAIN STORAGE - 1,000 sf
16.2 - LOCKED STORAGE FOR CHEMICAL - 500 sf
16.3 - COLD STORAGE FOR FLOWERS AND SEEDS - 600 sf

CULINARY / 5,700 sf

17) WORKSHOP AREA

18) DINING AREA

19) ADDITIONAL SEATING

EMPLOYEE PARKING

20) UNDERGROUNG PARKING - 8,600 sf

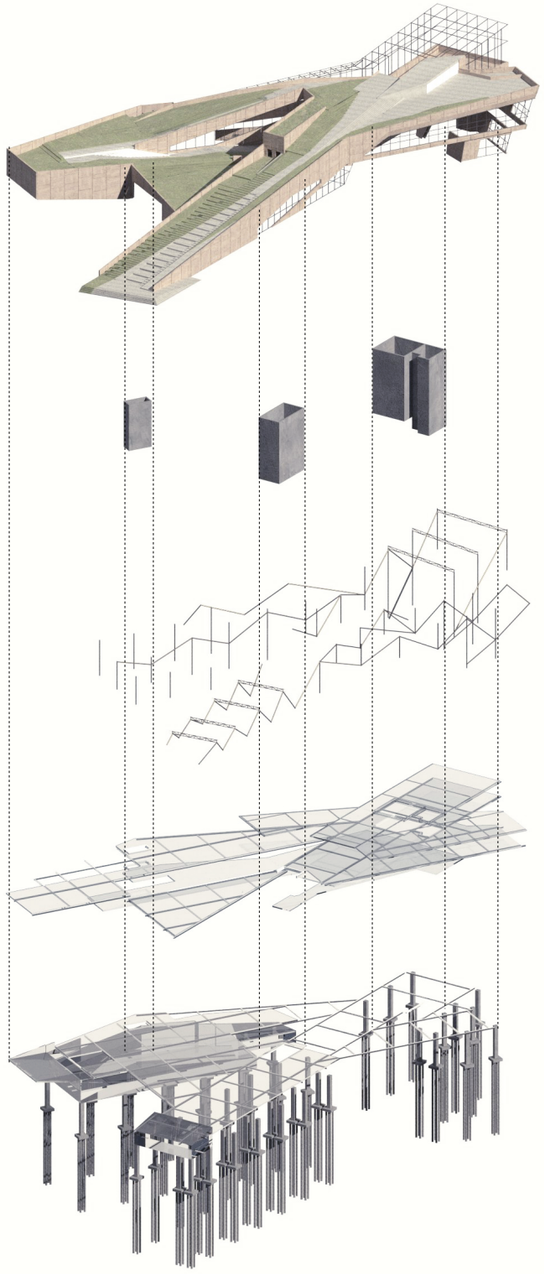
Index

a. First Floor Plan

a







SKIN
GREEN ROOF
4'W x 2-16'W STONE PANELS

LATERAL STRUCTURE
CONCRETE CORES

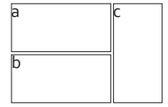
VERTICAL STRUCTURE
TRUSSES & COLUMNS

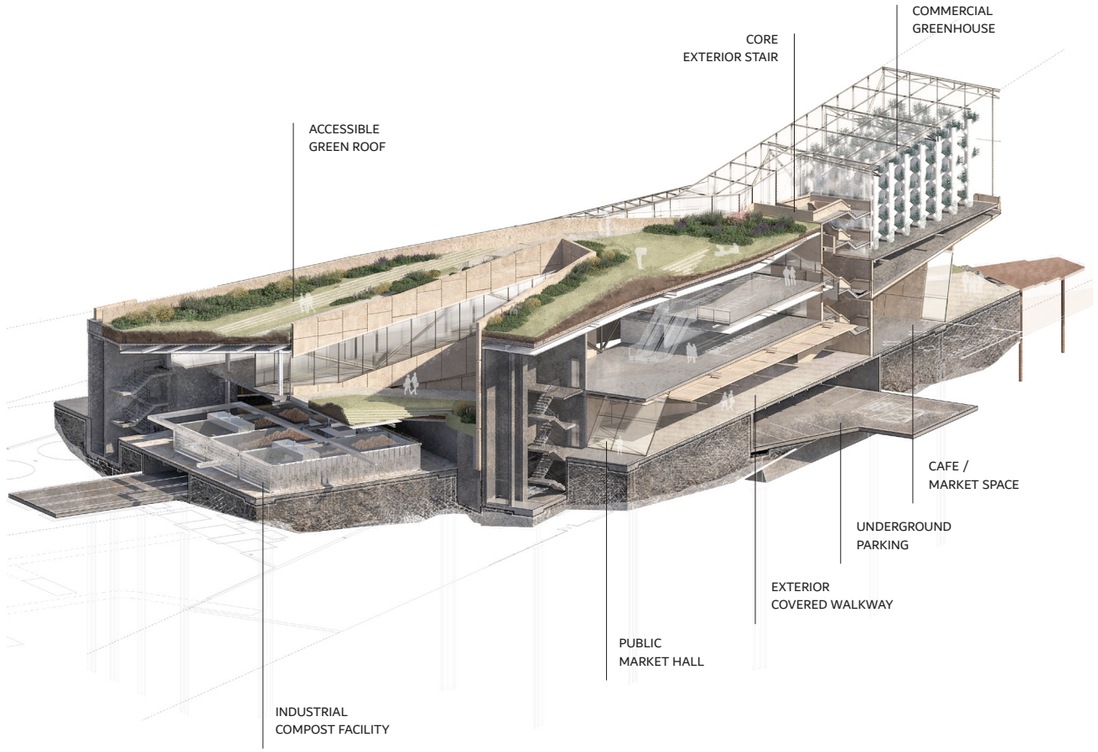
FLOOR STRUCTURE
STEEL BEAMS
CONCRETE SLAB ON METAL DECK

FOUNDATION
PILES & PILE CAPS

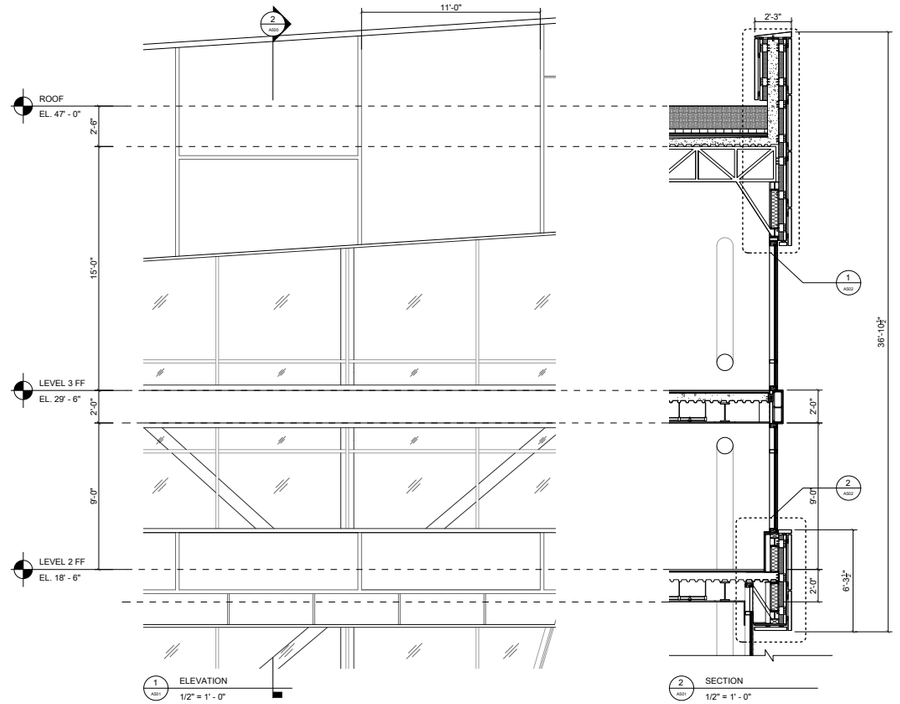
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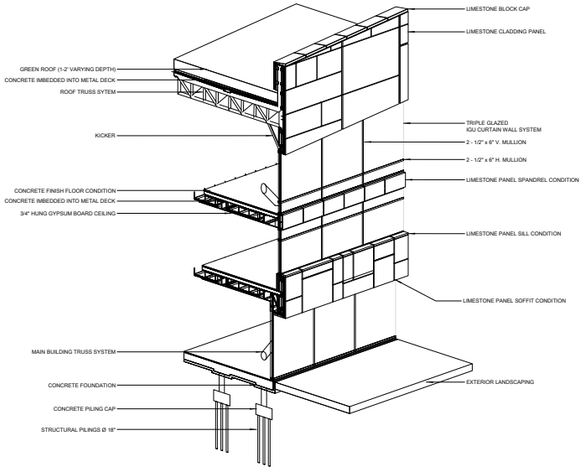
a. 1/64" Site Model
b. Exterior Render
c. Exploded Structure

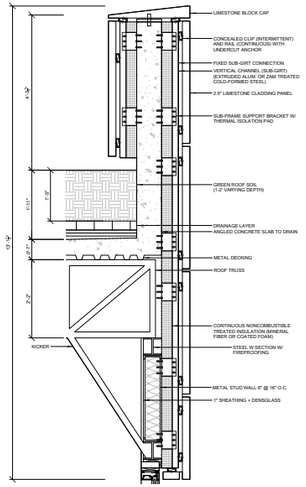












Index

a. Building Chunk
b. Exterior Render
c. Building Elevation + Wall Section
d. Detail Isometric
e. Facade Detail

a	c
b	d e

The Canals

Course
ARCH 806: Aquapalegic Infrastructures

Instructor
David Erdman

Partners
Isabella Kyster
Ethan Royal

Site
Willets Point, Queens, NY

Term
Spring 2026

Softwares
Rhino, Grasshopper, Fologram, Illustrator, Photoshop, V-Ray, Enscape, Scalgo, Gemini

How can contemporary practices in sustainability be expressed architecturally?

How can buildings become living, readable, infrastructure?

As Queens faces growing flood risk and development pressure, Willets Point offers the opportunity to introduce a new neighborhood for residential development. However, due to the site's low lying condition there is heavily documented risk for coastal flooding and sea-level rise.

The Canals takes historic water pathways and formalizes them into a Canal system that functions as open trench stormwater management. Combined with buildings that intentionally capture stormwater and reuse internal blackwater, the Canals offers an alternative to climate forward design that brings residents closer to water than ever before.

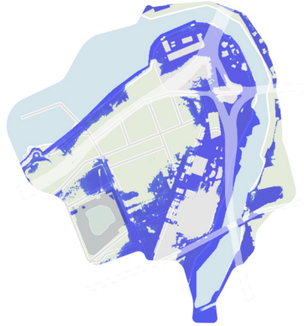
View at Canal

A ground level render shows the experience walking along the canal edge, decorated with bioswales and river boats. In the distance, affordable housing blocks with oversized roofs are seen that maximize stormwater catchment square footage.

Existing Conditions

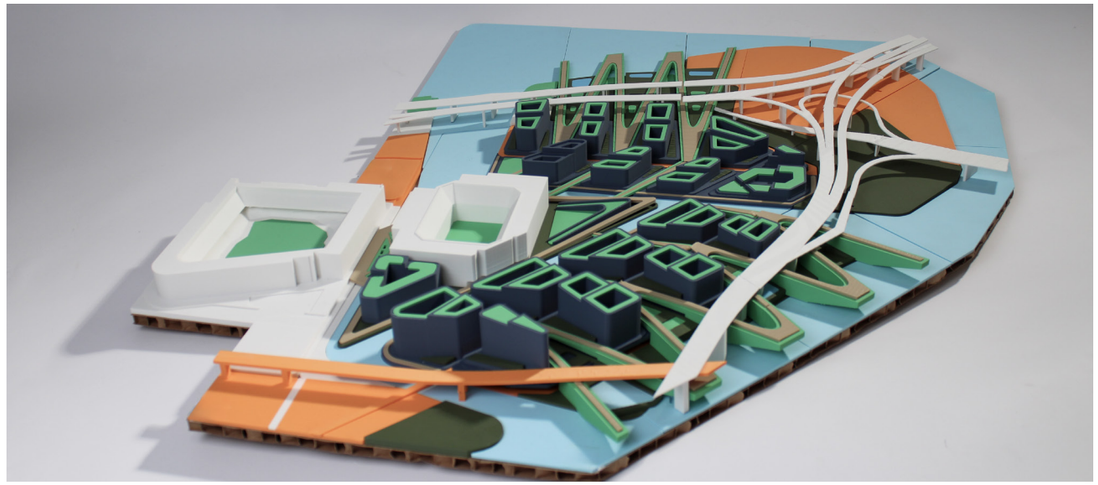


10' Sea-Level Rise



Depression Free Flow





Programmatically, *The Canals* contains (1) affordable housing; (2) communal and public realm spaces; (3) commercial ground floor uses; and (4) an open canal and stormwater infrastructure.

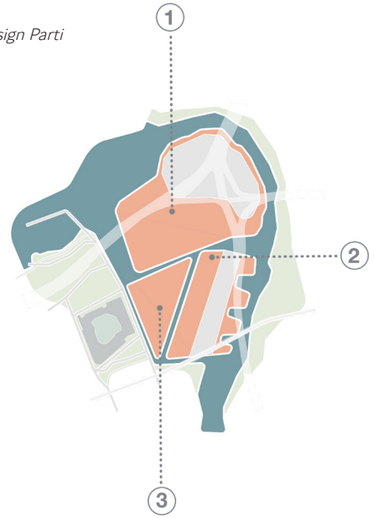
Situated at Willets Point, Queens, the project responds to the documented flood risk by formalizing historic water pathways into a triangular canal system that organizes development, circulation, and new gateways across the site.

Rather than resisting the site's hydrology, *The Canals* allow water to follow its historic patterns, turning Willets Point into three islands.

On the roof, large terraces capture rainfall and convey it through the building sectionally by gravity. At the ground, bioswales capture and filter stormwater through dense planting, and lead down to canal fronting microsheds serve as the final buffer before water enters the canal network. Together these systems calculate to a net positive supply of non-potable water for the district.

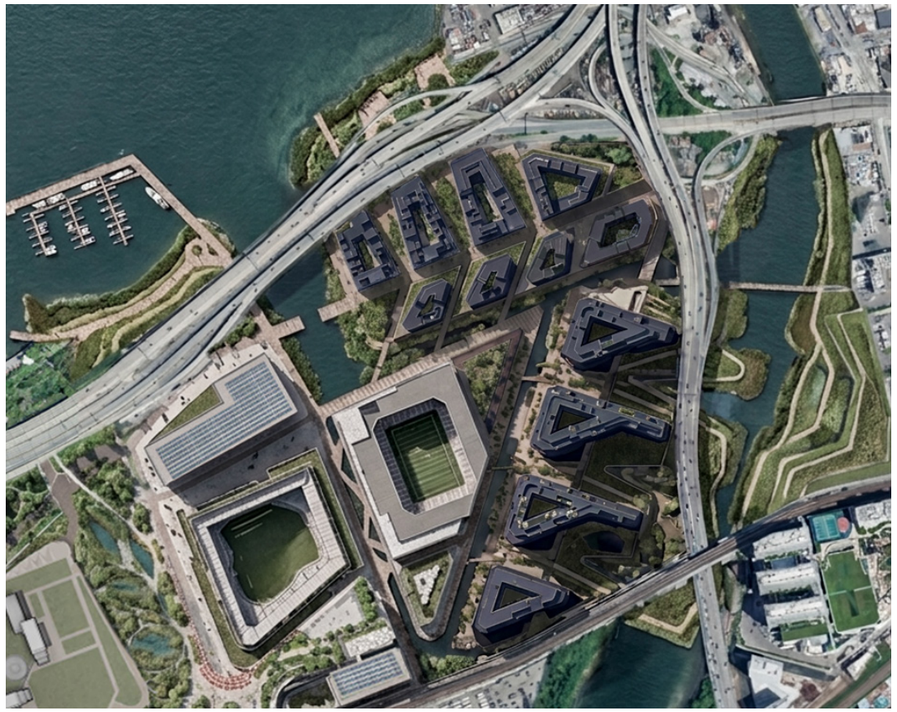
The Canals aims to create a model for urban living that is built not to protect against rising tides, but to thrive alongside them; offering solutions to activating low-lying areas for development.

Design Parti



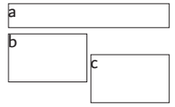
Site Plan

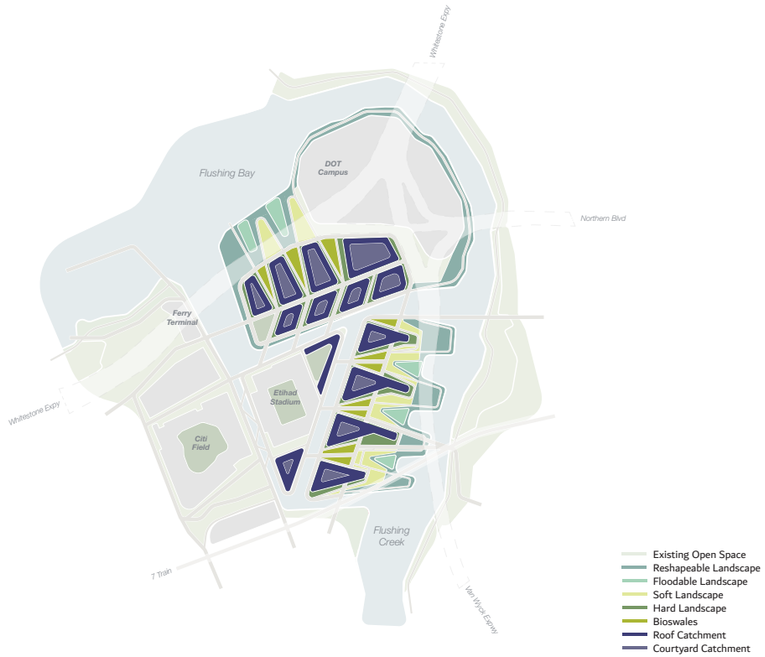




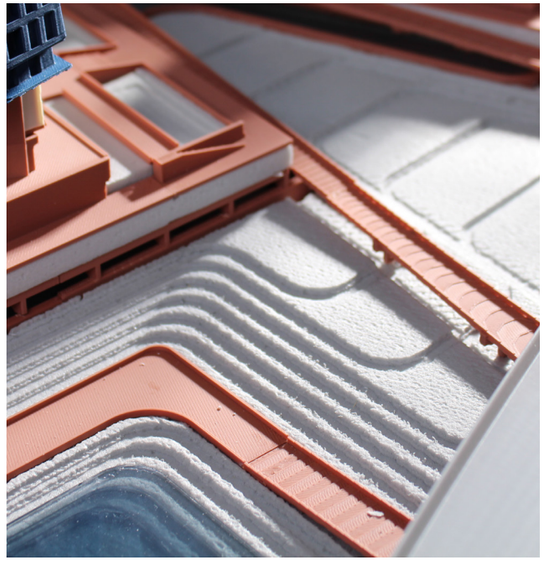
Index

a. Concept Diagrams
b. Initial Zoning Model
c. Satellite Plan (created with Gemini)

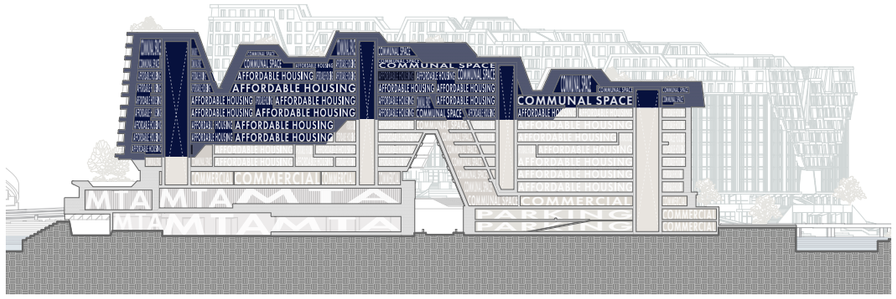


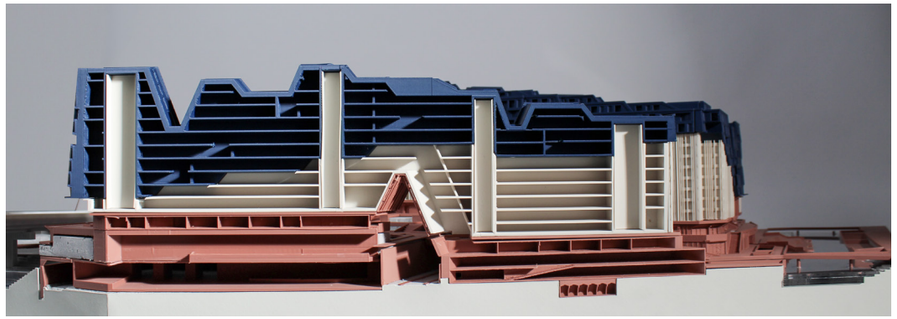






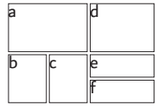


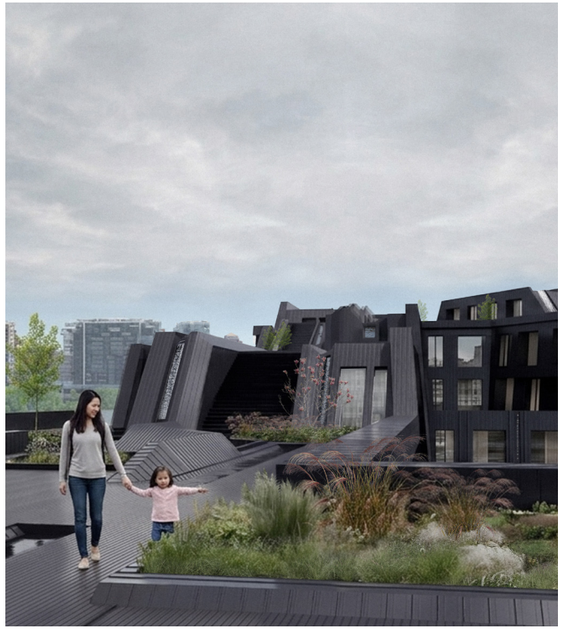




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a. Landscape Plan
b. Berm Model Detail
c. Ground Model Detail
d. Roof Model Detail
e. Building Section
f. Section Model



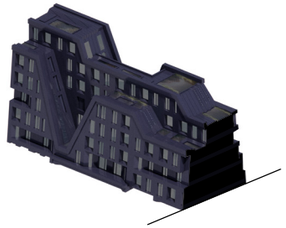








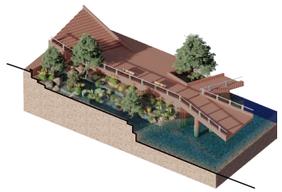
1 Roof Capture



2 Ground Filtration

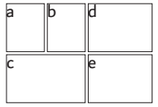


3 Canal Output



Index

a. Rooftop Render
b. Courtyard Render
c. Water Conveyance Paths
d. Exterior Render
e. Canal Render



Non-Invasive Architecture

Course
ARCH 703 Design 3: Urban Qualities & Materialities

Instructor
Thomas Leeser

Site
Bushwick Houses, Brooklyn, NY

Term
Fall 2024

Softwares
Rhino, Grasshopper, Creality Print, Illustrator, Photoshop, V-Ray, AutoCAD

How can existing public housing in New York be reimagined?

What are the interrelationships between urban space and its material qualities?

Using the existing New York Public Housing Authority (NCYHA) site, Bushwick Houses, studio 3 aimed to redefine the relationship between urban space and form in the context of afforable housing.

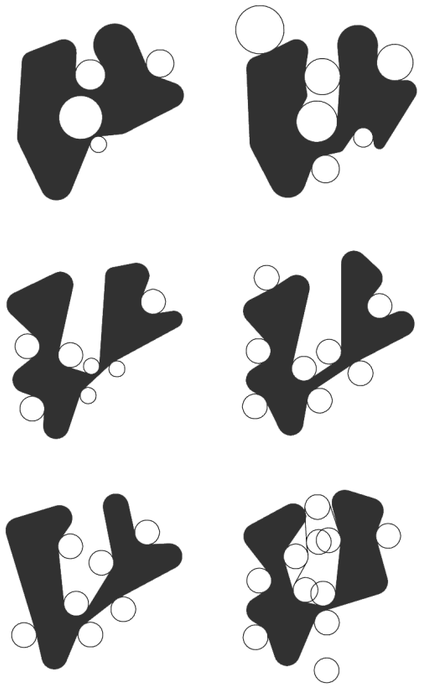
Non-Invasive Architecture is a project that focuses on successfully retaining and emphasizing the existing urban forest within the site. Preliminary studies mapping tree locations within the site revealed key areas of potential development in the voids of vegetation.

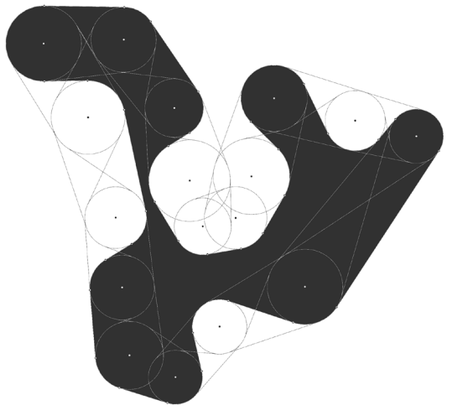
The result of these initial studies is a project that demonstrates methods of urban infill that are both contextual to its location and to the human scale.

Exterior Render

Approaching the site, perforated metal screens can be seen flowing off the facade of the original NYCHA buildings, playing with light and shadow to mimic the tree canopies which they lie between.



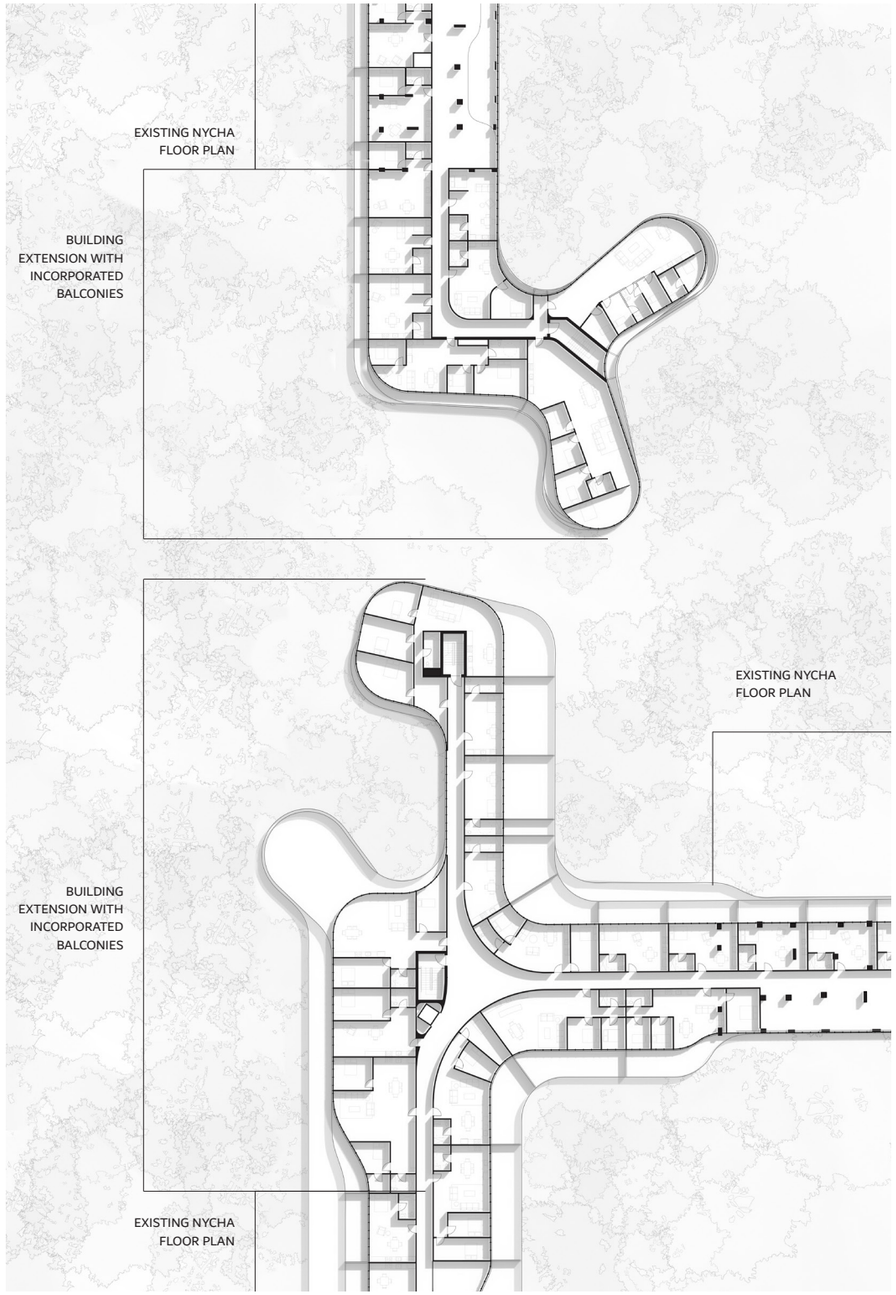




Early studies of the site were focused on the location of trees and vegetation, with the intention of using the “negative” of their spatial qualities to provide an index of locations to infill.

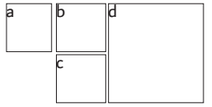
By studying extracted data from Google Earth, five critical locations were chosen as appropriate area for structure to graft off of the existing NYCHA typologies. These new forms are completely antithetical to the tower in the park mentaliy of their modernist deisgners. Instead, new shapes are contoured and curved to show their influence from the old growth forest of which it integrates to.

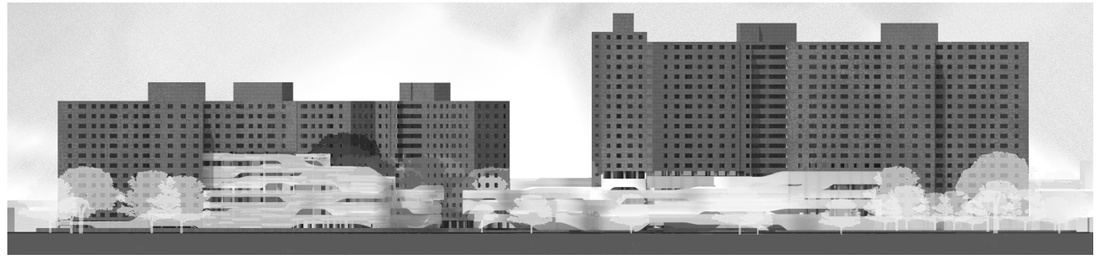
Additionally, expansive balconies split from the original structures to create terraced open spaces for each unit. Each open space allows for access to light and air for each resident, while allowing for privacy to remain as they’re nested within the tree canopy. Perforated metal screens also wrap the new structure, further playing with ideas of privacy and responding to program inside by restricting transparency in areas like bathrooms, but allowing itself to open in living rooms.

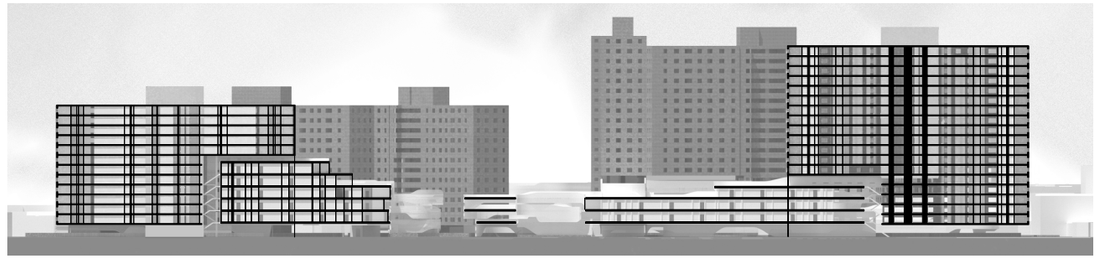


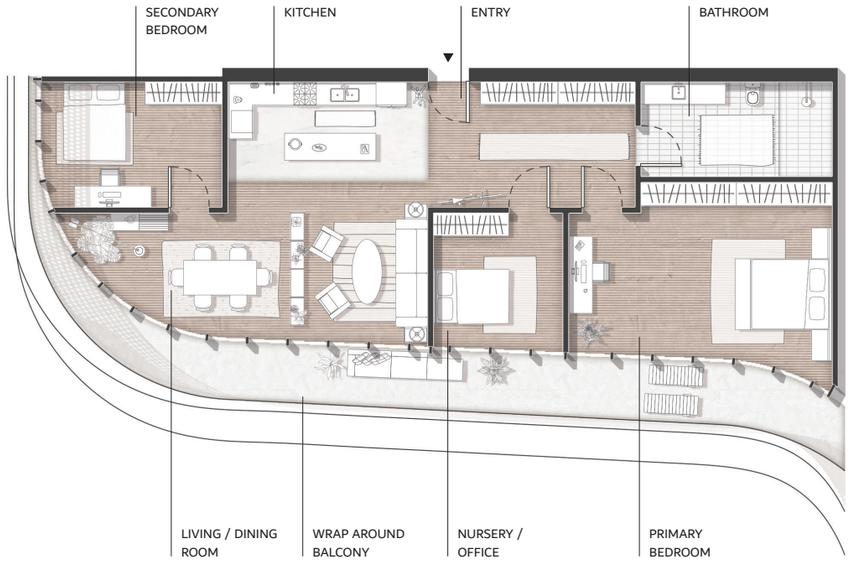
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a. Midterm Site Model
b. Form Study
c. Form Study
d. Typical Floor Plan

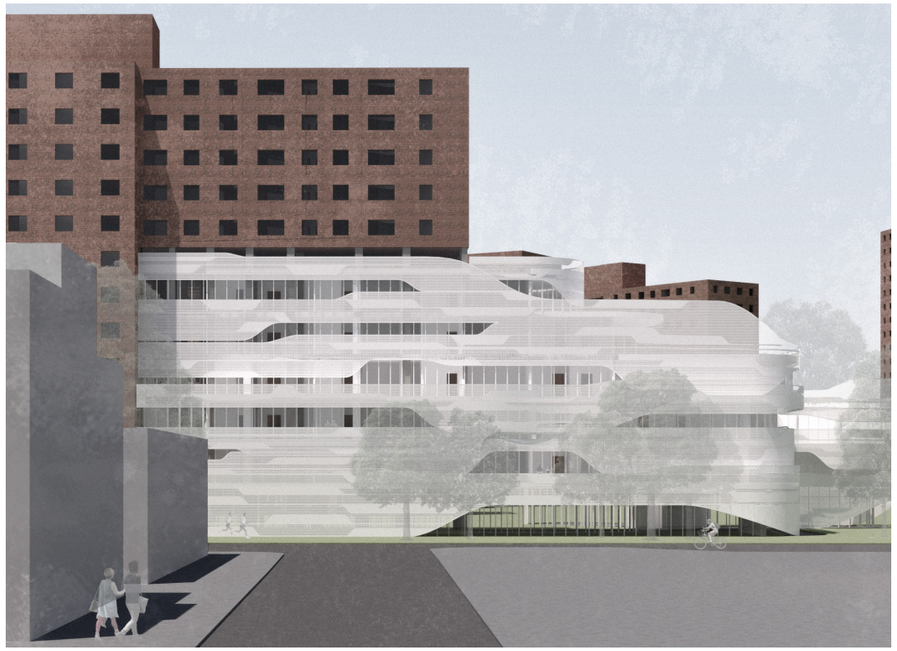






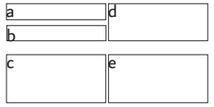


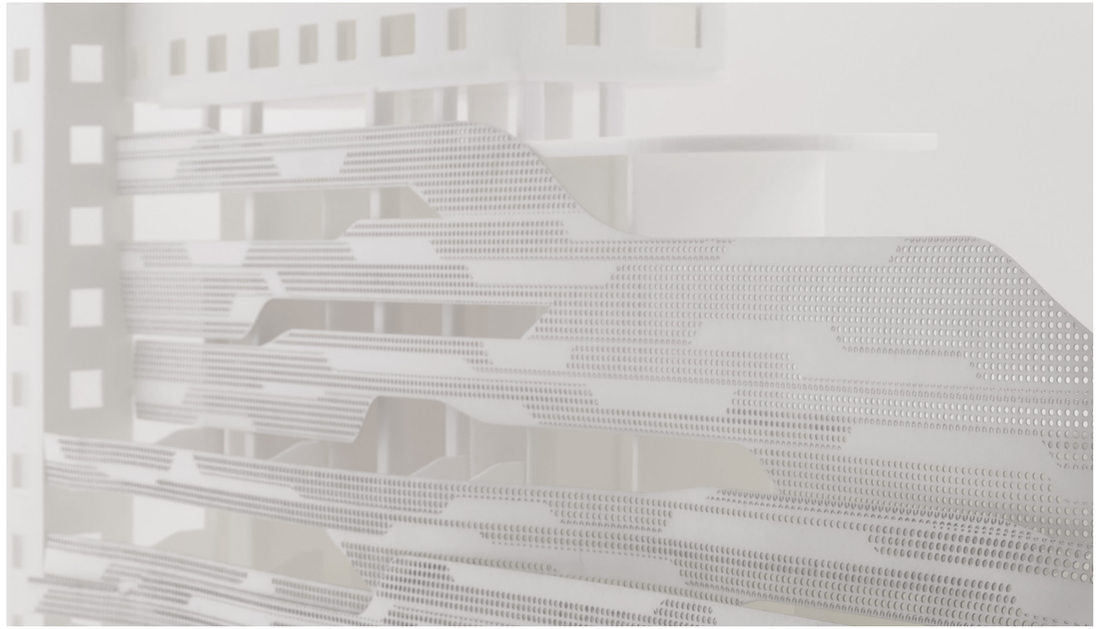


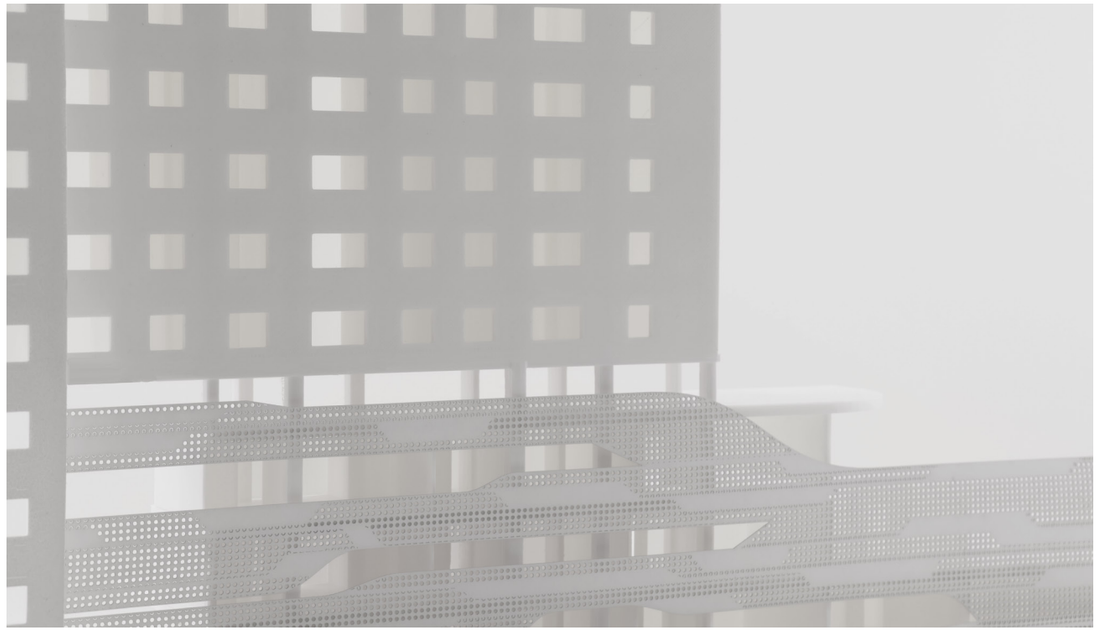


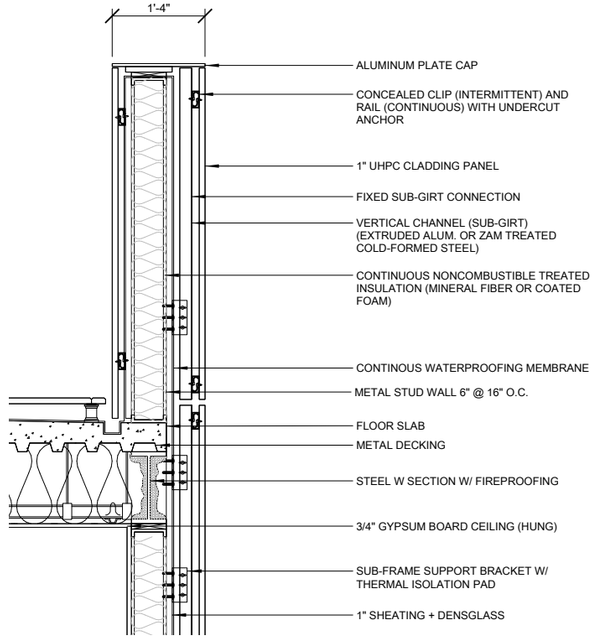
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a. Building Elevation
b. Building Section
c. Aerial Render
d. 3 Bed Unit Plan
e. Street Render

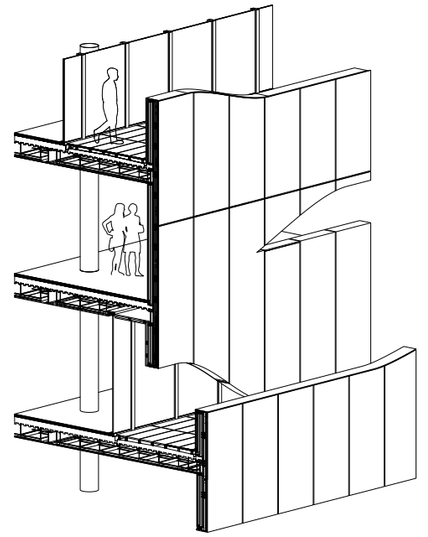








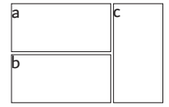
1 A101 DETAIL SECTION
1 - 1/2" = 1' - 0"



3 A101 ISOMETRIC VIEW
NOT TO SCALE

Index

a. Model Photo
b. Model Photo
c. Section Detail Drawings



Stack Bond

Course
ARCH 713 Mediums 3: Fabrication

Instructor
Caleb Ehly

Term
Spring 2025

Softwares
Rhino, Grasshopper, Robots Plug-in for Grasshopper, Illustrator, Photoshop, V-Ray

How can computational methods of making be incorporated into assembly?

How can new ideas of materiality be expressed in the context of facade design?

Mediums 3 allowed for students to explore unique and specialized methods of facade construction with a chosen material. For my project, *Stack Bond*, I used the semester to investigate methods of ceramic 3D printing with the robotics lab at Pratt.

The process involved many iterations in file preparation and design, with challenges occuring in the fabrication process itself and the ability to produce with the robot arm.

Model Assembly

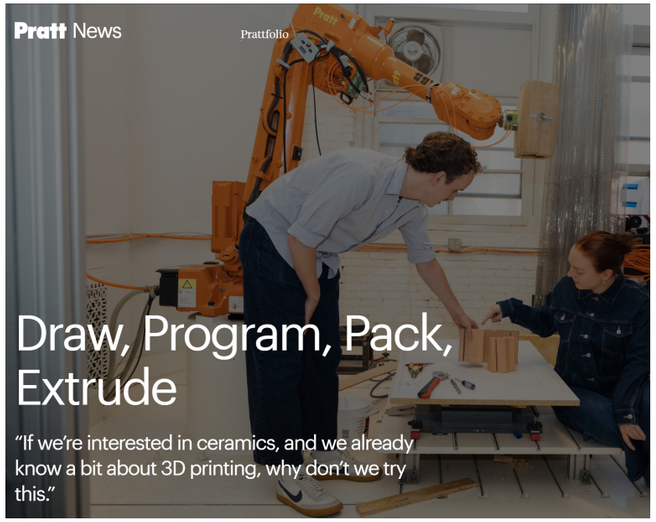
Pre-fabricated 3D Printed terracotta tiles are slid onto an I-beam through their integrated channel.

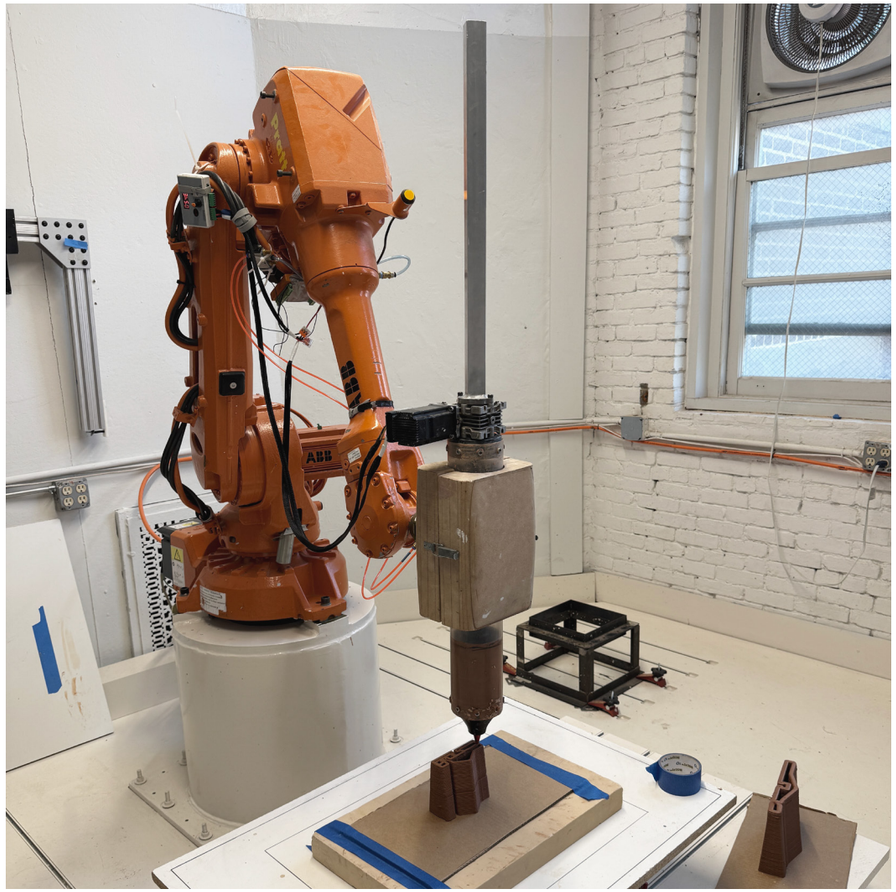


Bridging the gap between historic methods of brick weaving and contemporary construction techniques, *Stack Bond* investigates contemporary methods of fabrication. For this project, the ABB IRB 2600 robotic arm was used to facilitate the printing process. Geometry was developed using Rhino, with Grasshopper used to create a workable toolpath for the robot.

Stack Bond plays on the traditional arrangement of stacking bricks vertically. However, each brick is actually tiles of two different profiles that taper upwards into themselves, and are arranged on top of each other so that they cantilever outwards along a vertical metal rail. As an open air facade, the project acts as a screen to capture moisture and play with light, air and shadow in a dynamic way.

The result is an architectural assembly that embeds and communicates new ideas of construction and fabrication methods within the context of clay as a material.

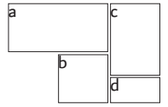




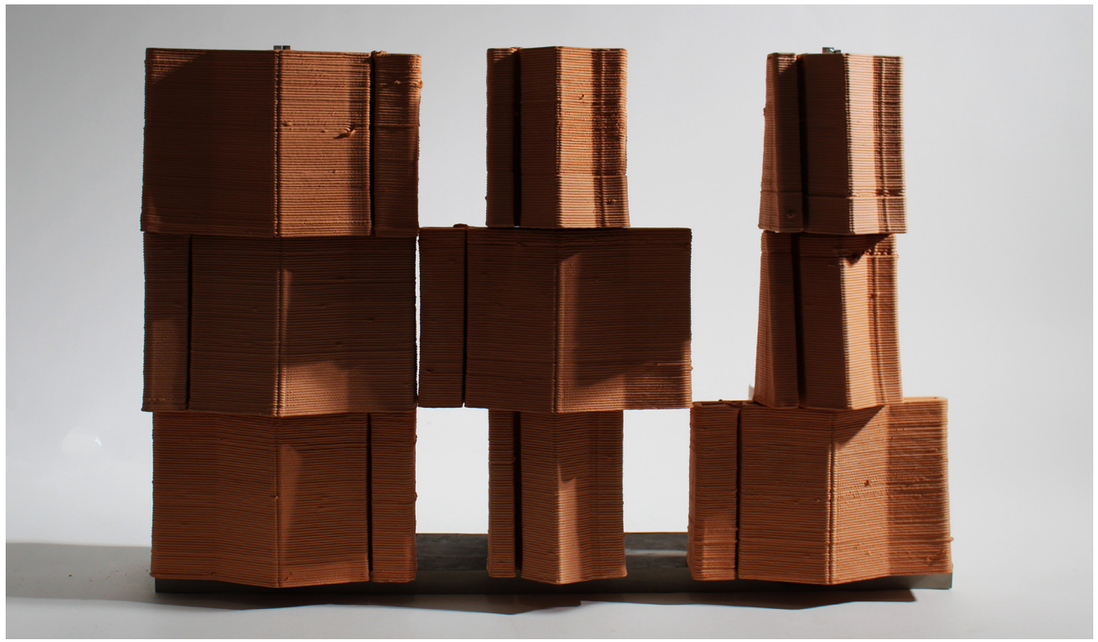


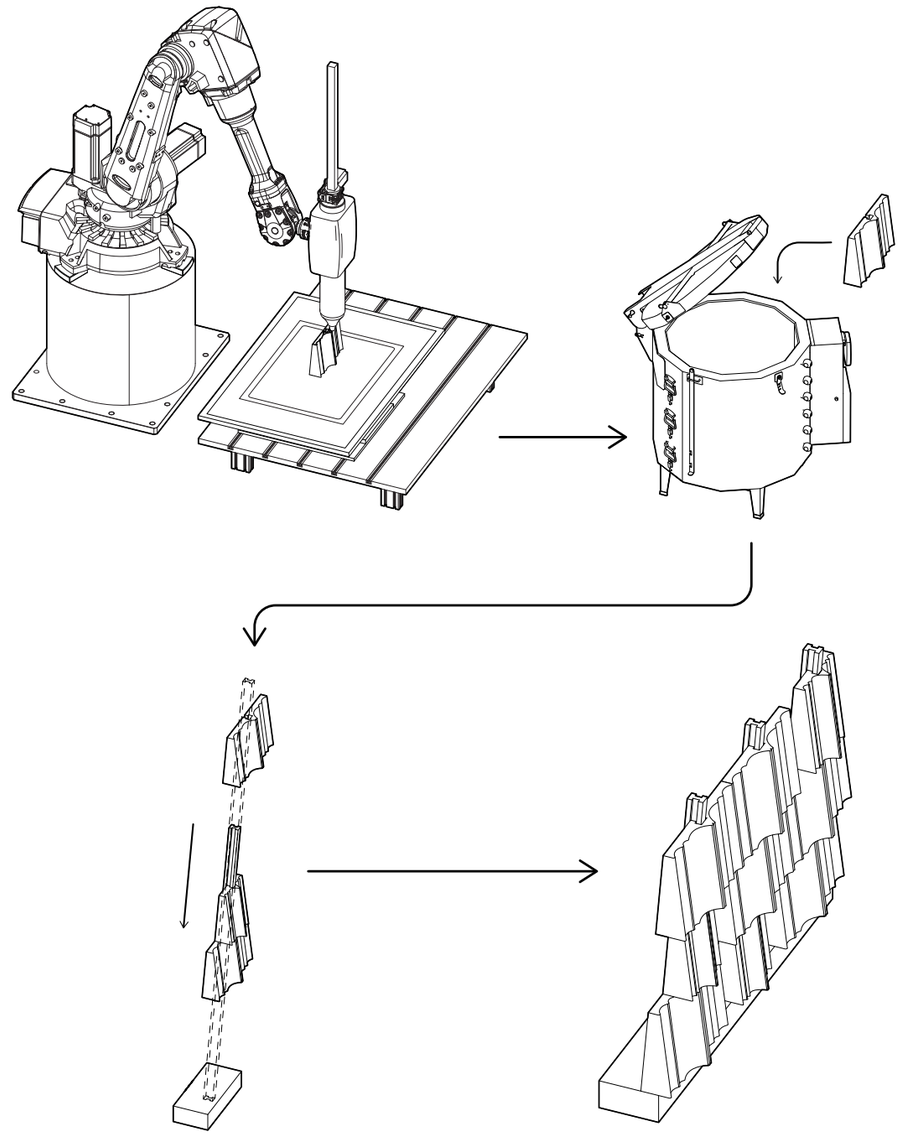
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a. Model Photo
b. Prattfolio Feature
c. Assembly Diagram
d. Model Close Up







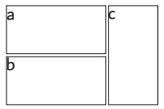


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a. Model Photo

b. Model Photo

c. Assembly Diagram



First as Main

Course
PLAN-723: Contextual Urban Design

Instructor
Jonathan Martin

Site
Brentwood, NY

Term
Spring 2026

Softwares
Rhino, Illustrator, Photoshop, Excel

How can a suburban shopping center be transformed into a walkable urban district?

How can transit infrastructure be a catalyst for community life?

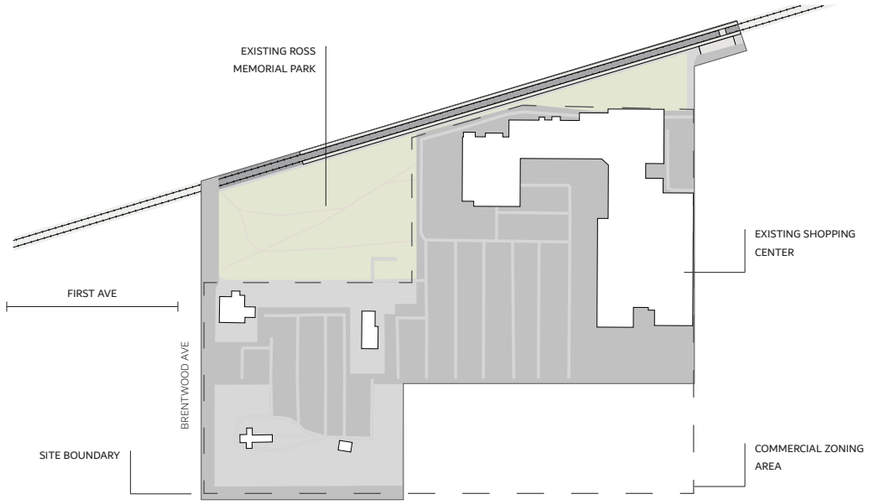
Situated adjacent to the Brentwood LIRR station in Islip, NY, *First as Main* is a transit-oriented development proposal that reimagines an active 14-acre suburban shopping center as a walkable mixed-use district. The design is organized around three existing catalysts: the LIRR station, Ross Memorial Park, and the existing retail plaza, all connected through a multi-modal circulation framework and strategic infill development.

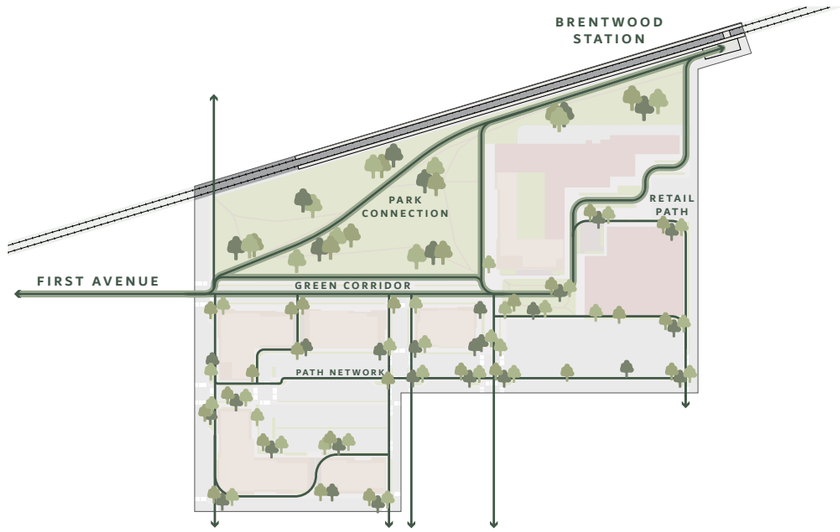
Rather than wholesale redevelopment, the proposal pursues additive intervention: new buildings define pedestrian corridors, structured parking consolidates surface lots, and a public realm sequence activates the connection between transit and park.

Proposed Building Elevation

New infill development looks at extending the existing, underutelized, “Main St” of Brentwood, pulling it into the project site boundary. With selected commercial storefronts placed along the new Main St, the development looks at incorporating apartments above that stay in context with the suburban scale.







First as Main takes its name from First Avenue, the underutilized street running through the site that the proposal reactivates as the primary pedestrian spine of a new mixed-use district. By extending and formalizing First Avenue as Brentwood's main street, the design creates a continuous ground-floor retail and residential frontage that connects the LIRR station directly to Ross Memorial Park.

The proposal introduces a series of neighborhood squares distributed along the corridor, each serving a distinct community function, from commercial activity near the transit entrance to quieter residential pocket squares deeper into the site.

New three-story mixed-use infill buildings define the street edge while remaining contextual to the surrounding suburban scale, with active storefronts at grade and apartments above.

Parking, currently the dominant feature of the site, is now relocated to the rear of parcels and consolidated where possible, reclaiming the street edge for people rather than cars. This inversion of parking behind and life in front, is the fundamental move that transforms the existing strip mall into a neighborhood anchored by the access to public transit and shared open space.

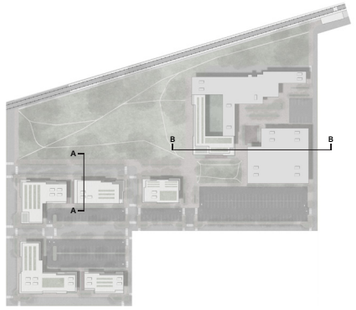
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a. Site Plan
b. Existing Site
c. Green Corridor Diagram

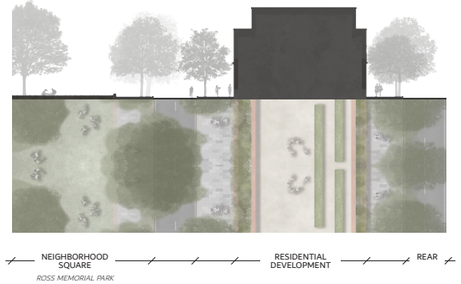
a b c



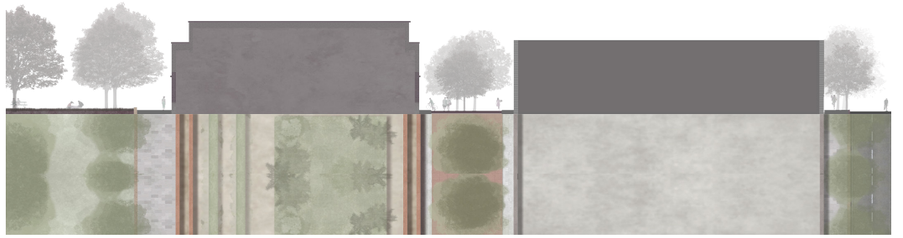
SITE PLAN



SECTION A - A



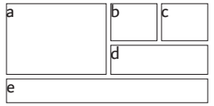
SECTION B - B





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a. Public Realm Diagram
b. Building Elevation
c. Site Plan
d. Street Section
e. Street Section



Thank You

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