

Kevin Carrillo
Architectural Technology
Undergraduate

PORT
FO
LIO

East River Complex

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4th year. Urban Design Studio
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Inwood Commons

Urban Design Development
4th year. Special Topics: Design Studio
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History of NYC Museum

NYC historic Preservation Public Center
3rd year. Digital Design Studio
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Dumbo Development

Mixed-use Mid-Rise Development
2nd year. Building Technology Studio
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Brooklyn Public Library

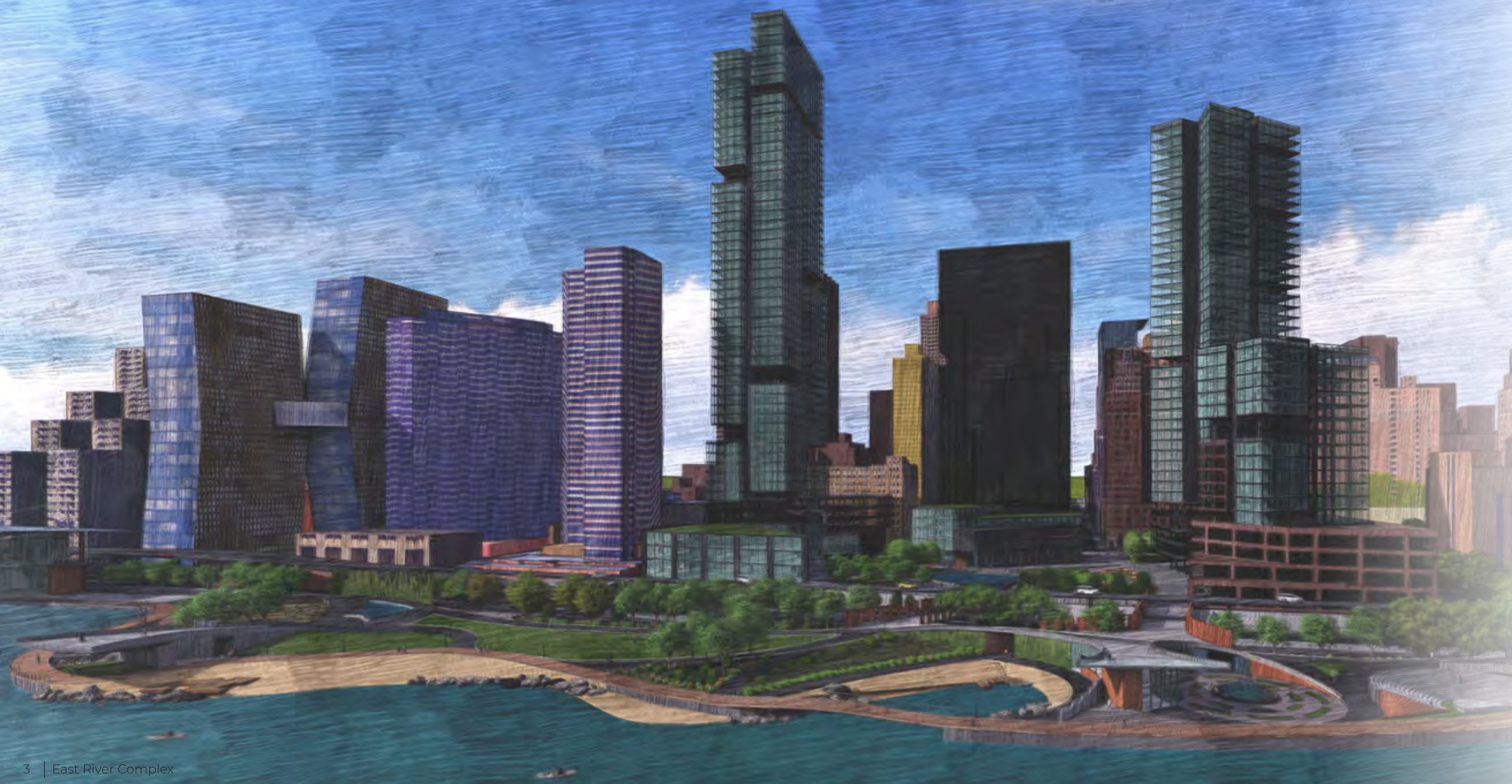
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East River Complex

New York, New York.

Summer 2020. Urban Design Studio
Independent Studio Project

Instructors:

Prof. Augustin Maldonado. RA | AIA
Dr. Esteban Beita - Solano. Ph.D

Phase I: Waterfront Esplanade

This Phase consisted of redeveloping a waterfront park on the east side of Midtown Manhattan. The focus was placed on creating multi-purpose areas, starting at the 34th Street Ferry Terminal along the East River and towards the United Nations.

Phase II: Urban Development

The main project focused on designing a building complex consisting of commercial, institutional, and residential structures next to the UN. The site is bounded by the FDR Drive and 1st Ave. between 38th & 47th Streets. The main goal of phase II was to improve pedestrian access, circulation, and create a connection linking both Phase I and II over the existing FDR Drive.

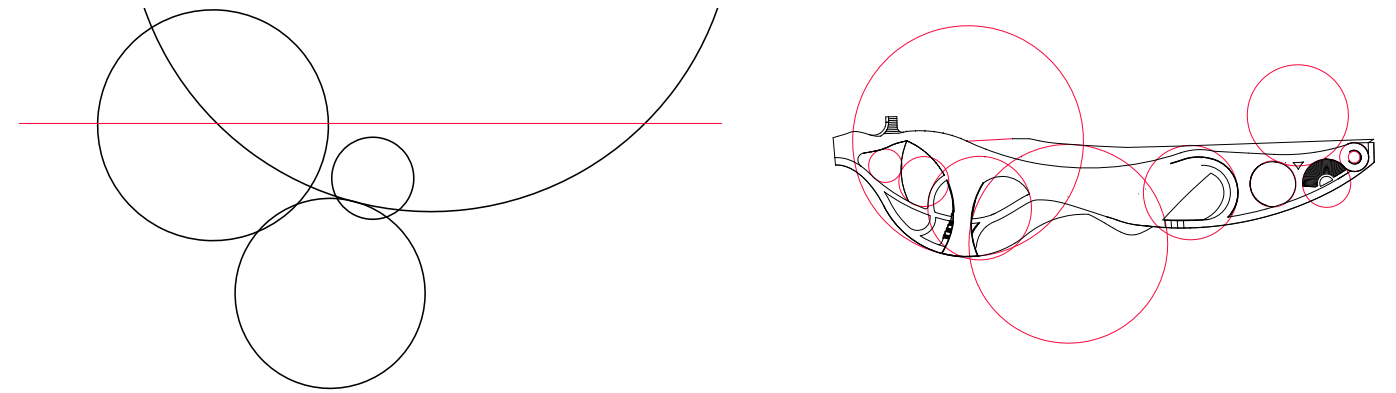
Phase I:
Waterfront Esplanade

Design Concept:
In context with the recent redevelopment of Hunter's point park across the East River in Queens; I wanted to create a similar space linking both parks across the river. While doing a site analysis, I looked over the edge onto the East River and the idea of creating a "Reflection across the River" was developed into the new Waterfront Esplanade.

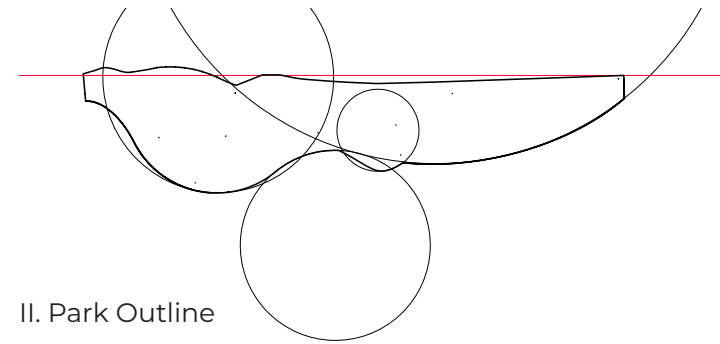


Top
Hunter's Point South Waterfront Park
Thomas Balsley Associates + Weiss Manfredi
Design Development & Render

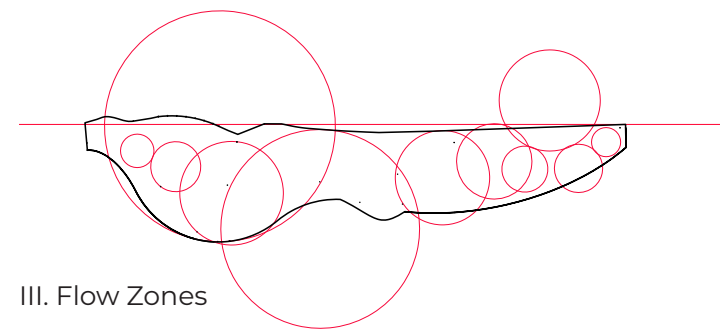
Right
East River Esplanade Development
Park plan focal points sketch



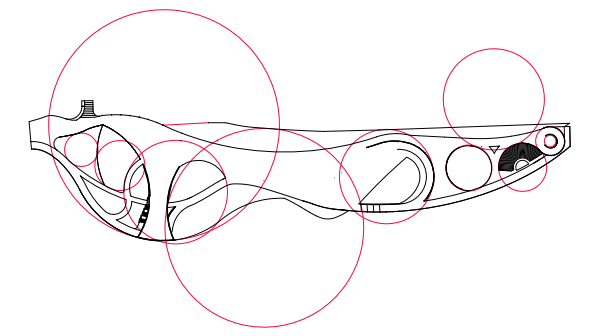
I. Circle Reflections



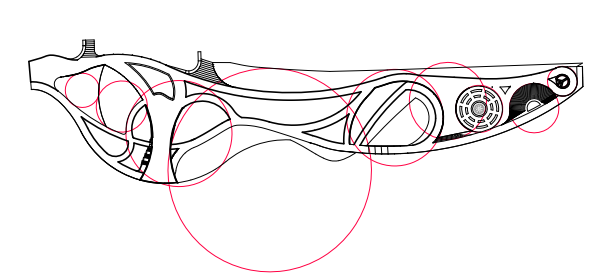
II. Park Outline



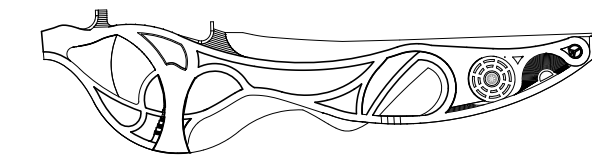
III. Flow Zones



IV. Circulation & Stagnation Points



V. Focal Points

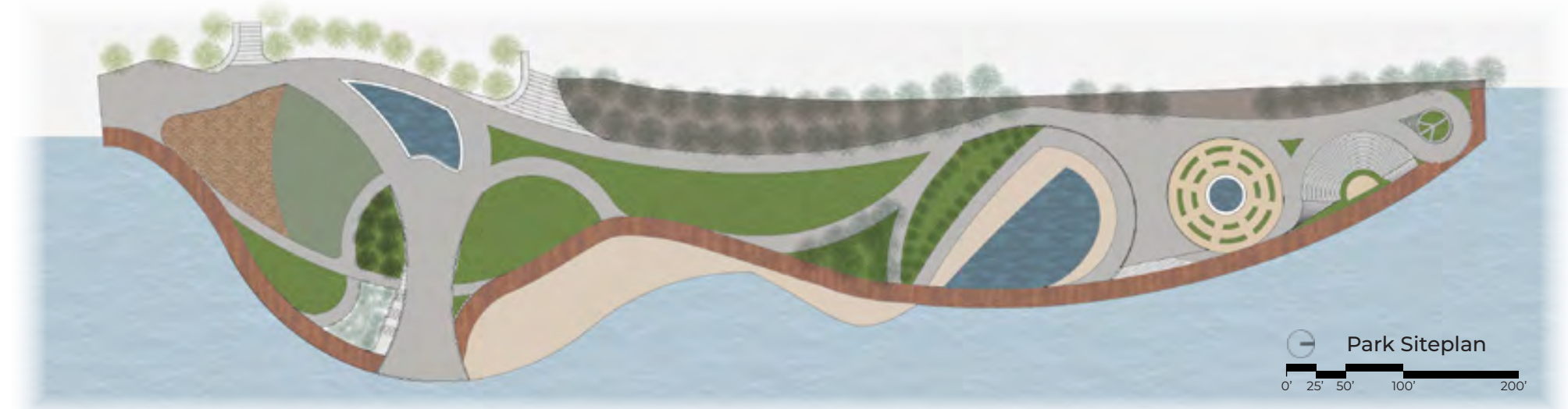


VI. Park Proposal

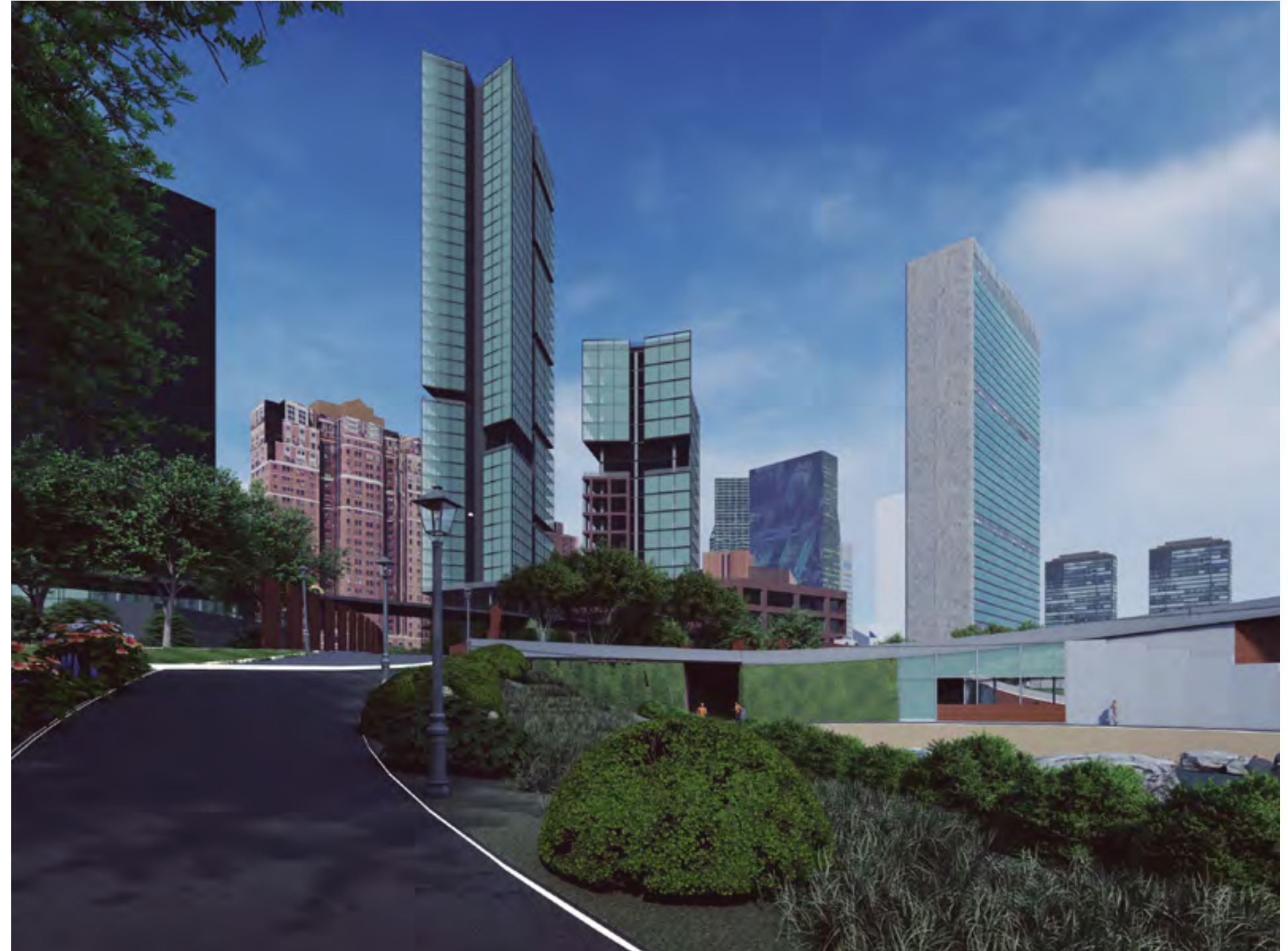
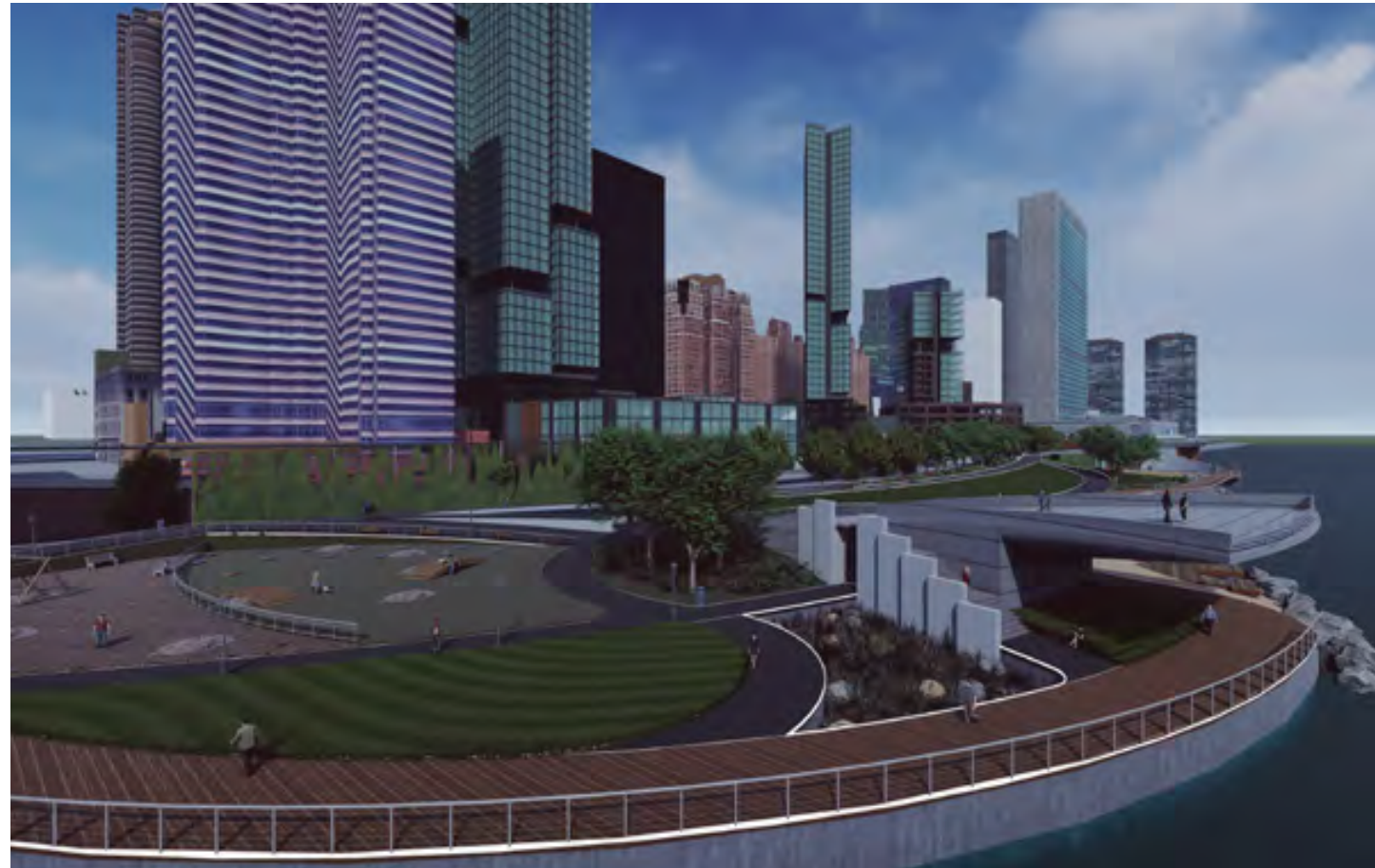
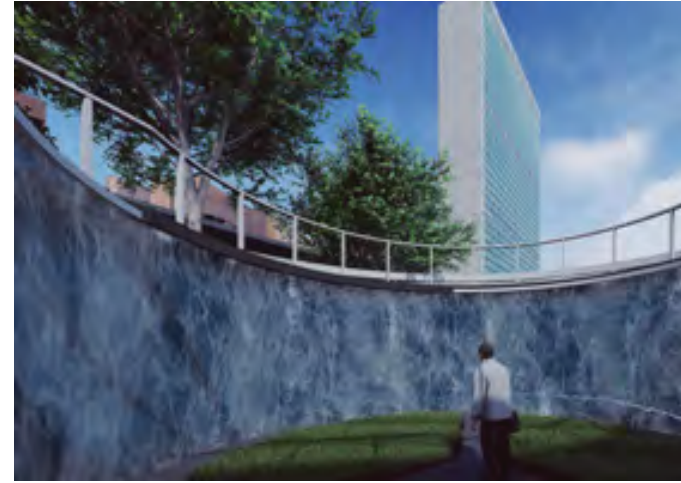
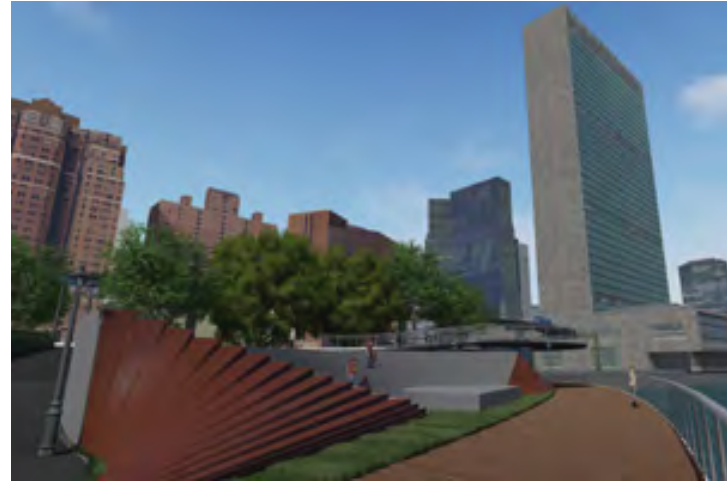


- - - - - Access Routes
- - - - - Bike Path
- - - - - Main Path
- - - - - Secondary Path
- - - - - Observation Deck Path
- - - - - Phase II overpass

- Peace Centre
- Observation Deck
- Canoe Landing
- East Side Beach
- Observation Deck
- Dog Park
- Family Playground
- Park Fountain
- Paths & Boardwalk
- Greenwall
- Park Splash
- Greenspaces
- Access

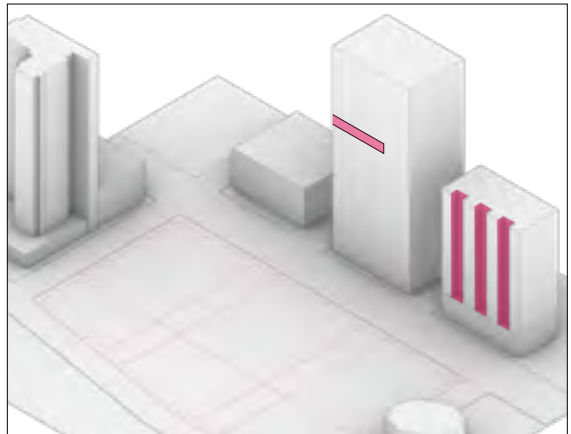


Park Siteplan
0' 25' 50' 100' 200'



Phase II:
East River Complex

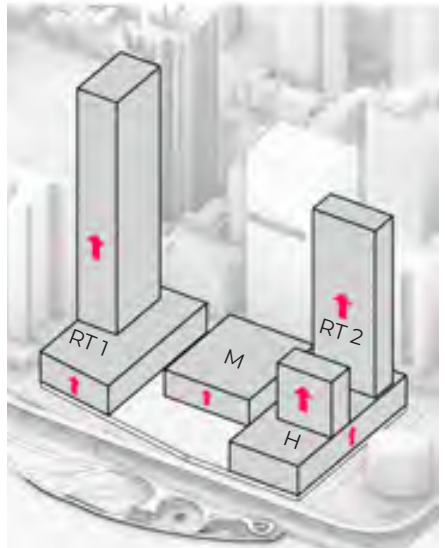
Design Concept:
The term 'Belongingness' can be summed up as an 'inherent' desire to belong – to be an important part of something greater than one itself". For this phase of the project, I used massing voids taken from the surrounding One United Nations Park Tower as well as from Tutor City's Widsor Tower and incorporated them to create a series of mixed-used buildings. The building facade follows the urban texture by using similar masonry to that in Tutor City; The glass used is similar to the one found on the United Nations Plaza landmark; thus creating a series of buildings featuring elements from the International, modern, and contemporary styles. Blending these elements resulted in a graceful complex that linked the 34th St. Ferry Terminal & the East River Esplanade to 42nd St. and the United Nations. Streamlining waterfront access to the East side of Midtown Manhattan.



PHASE I
Level lot grade. Raise 15'-0" creating entrances for loading docks and underground parking



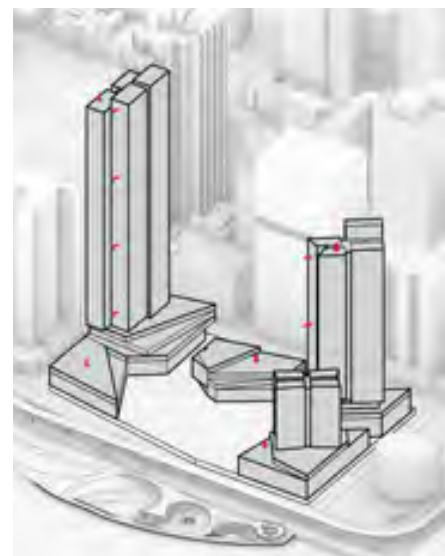
PHASE II
Used street grids and neighboring Property lines to create general outline



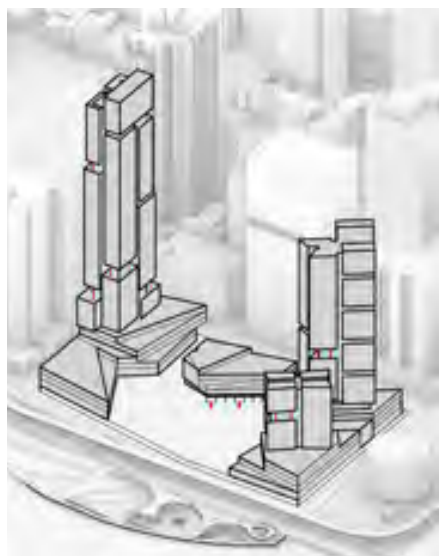
PHASE III
Extrude 3 towers, central massing, and 2 podium platforms



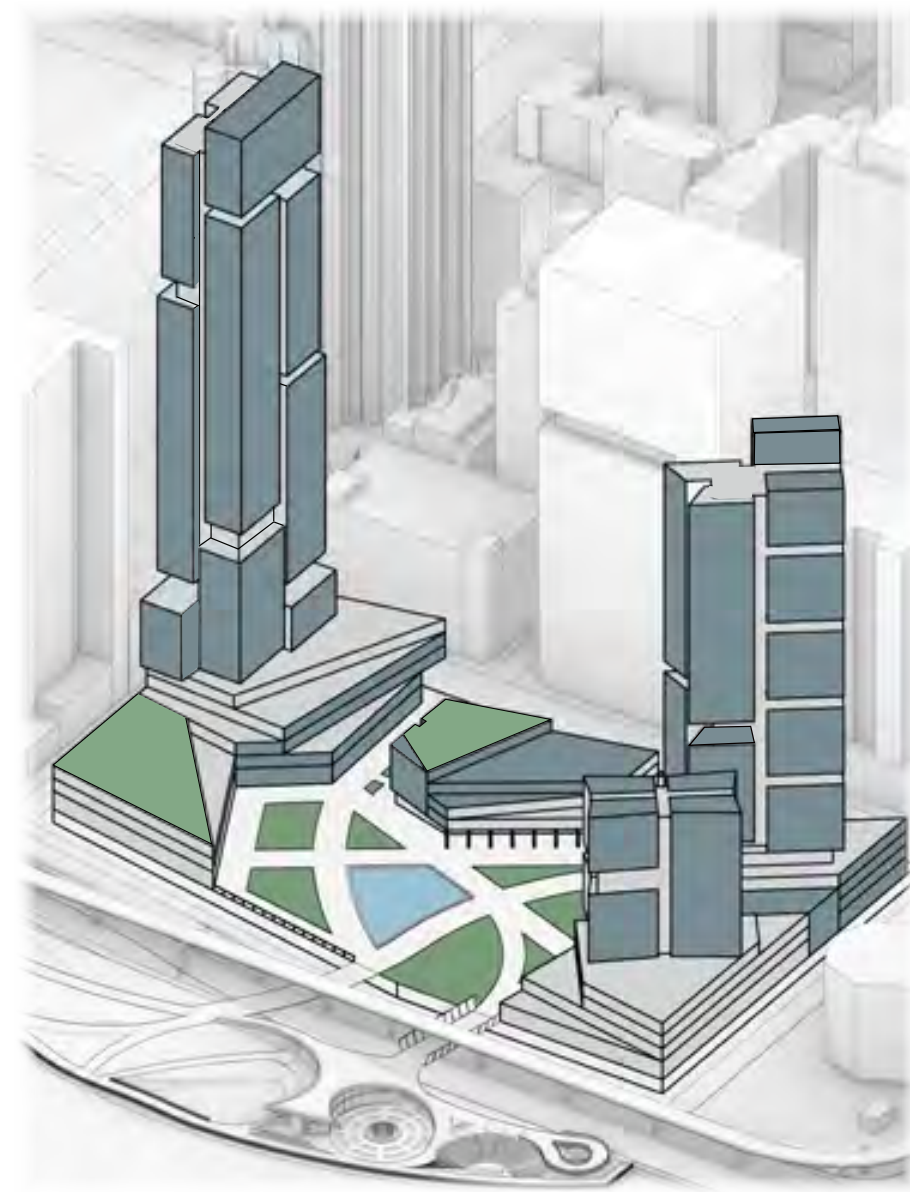
PHASE IV
Rotate – providing views to Tutor City. Cut podium to promote circulation



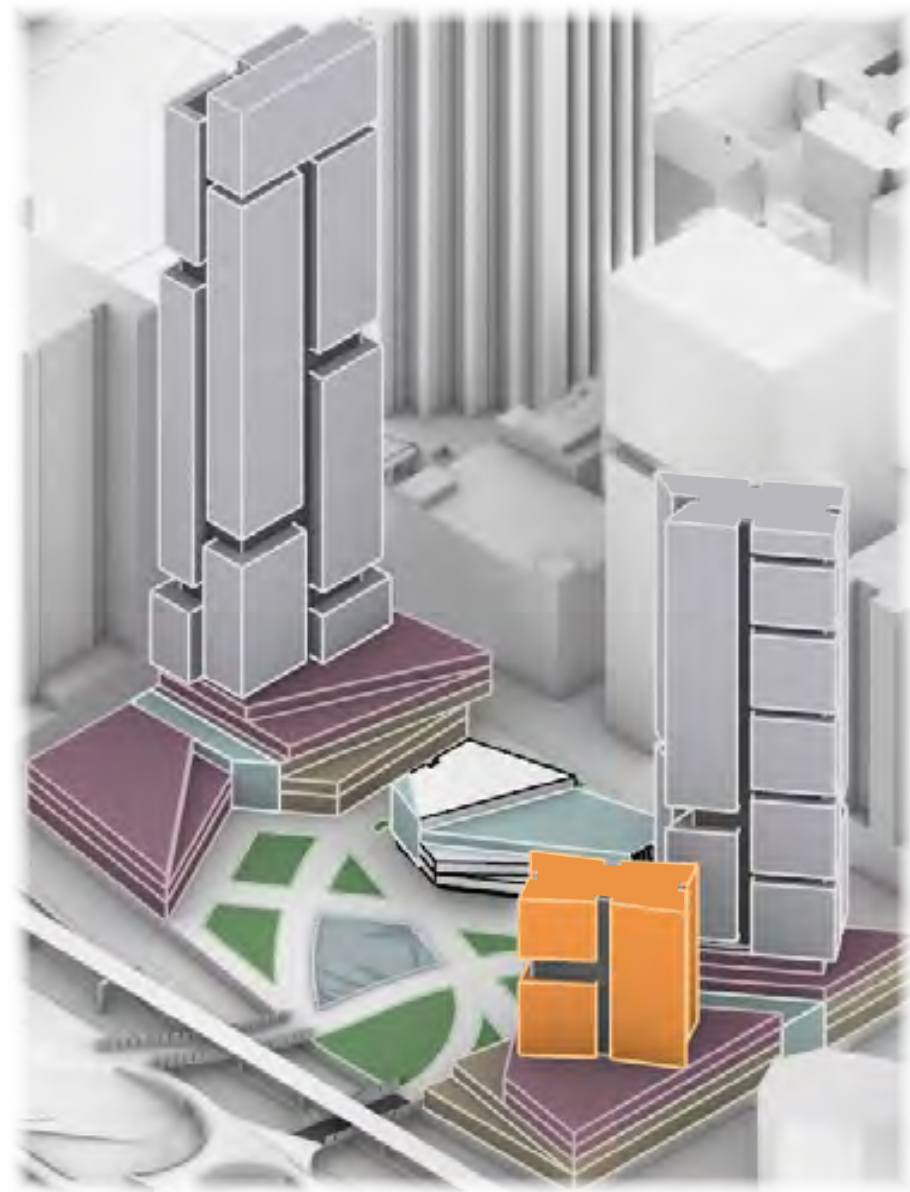
PHASE V
push massings inwards and downwards to refine levels, optimize resident views and other program amenities.



PHASE VI
Tower breakpoints, created open areas. Opened up Ground floor by using a colonnade on central Museum

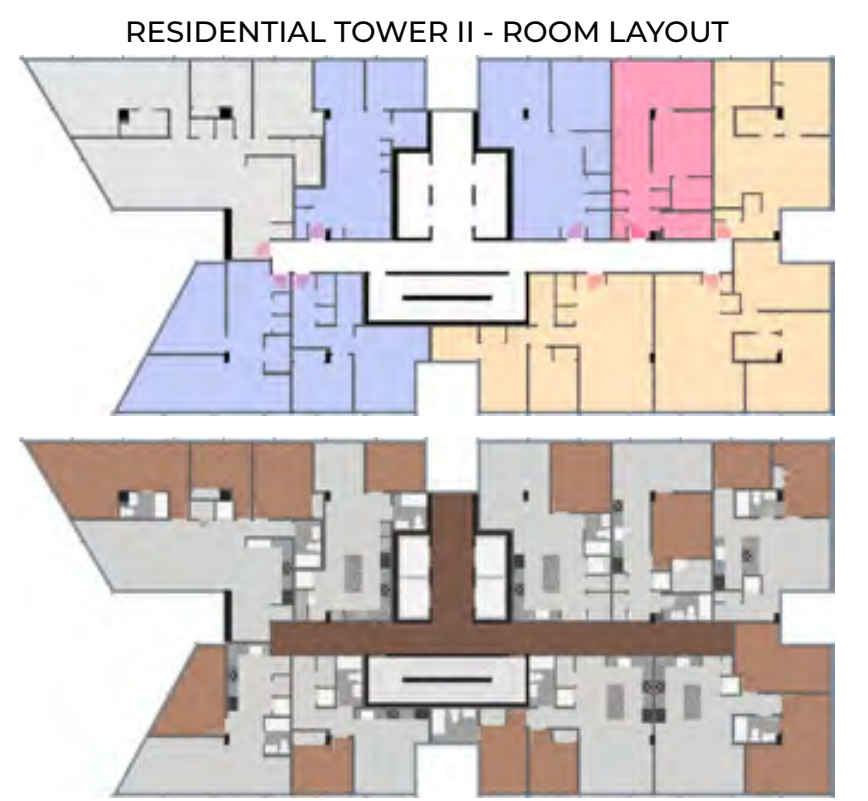
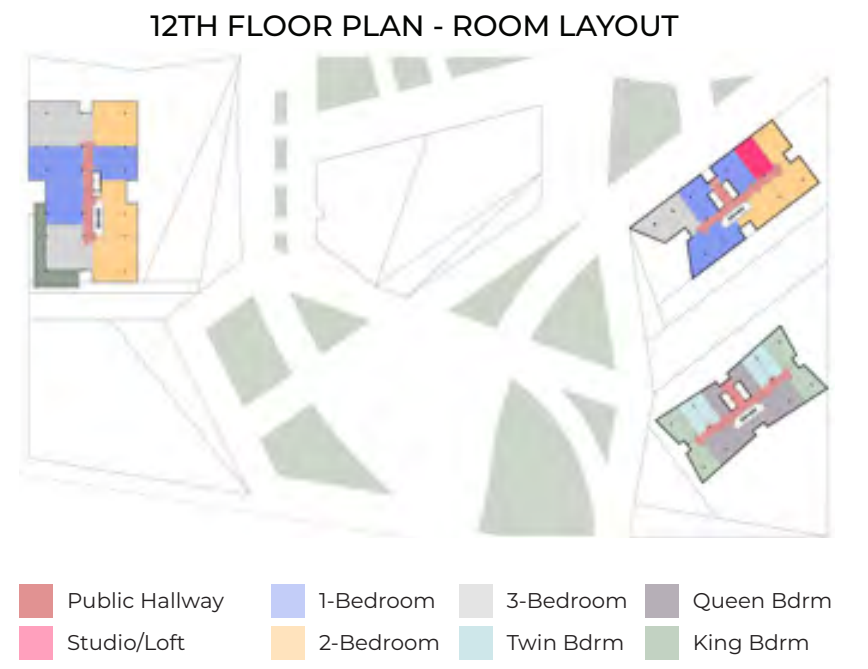
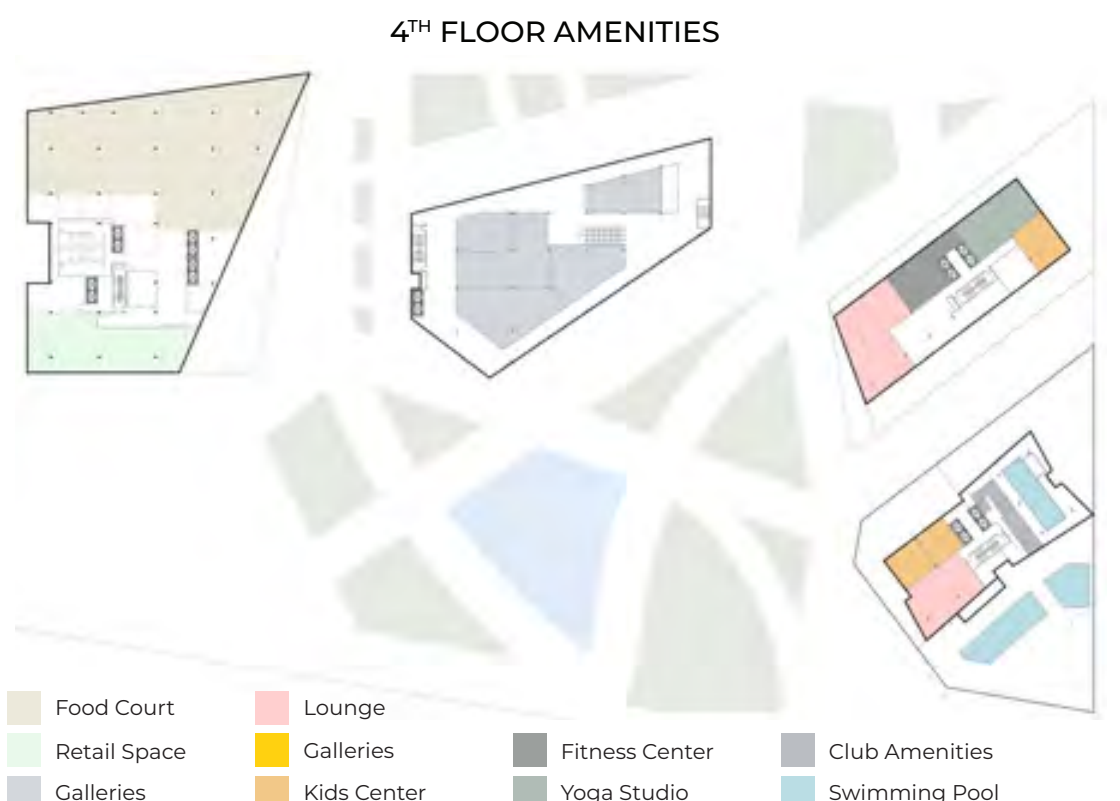
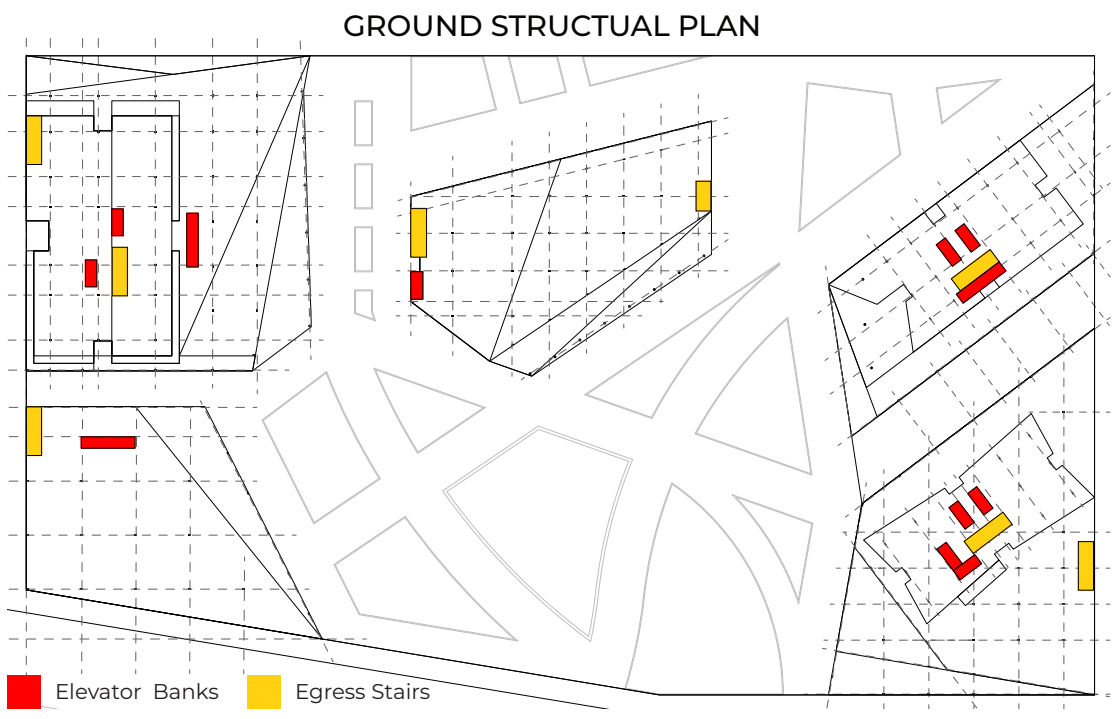
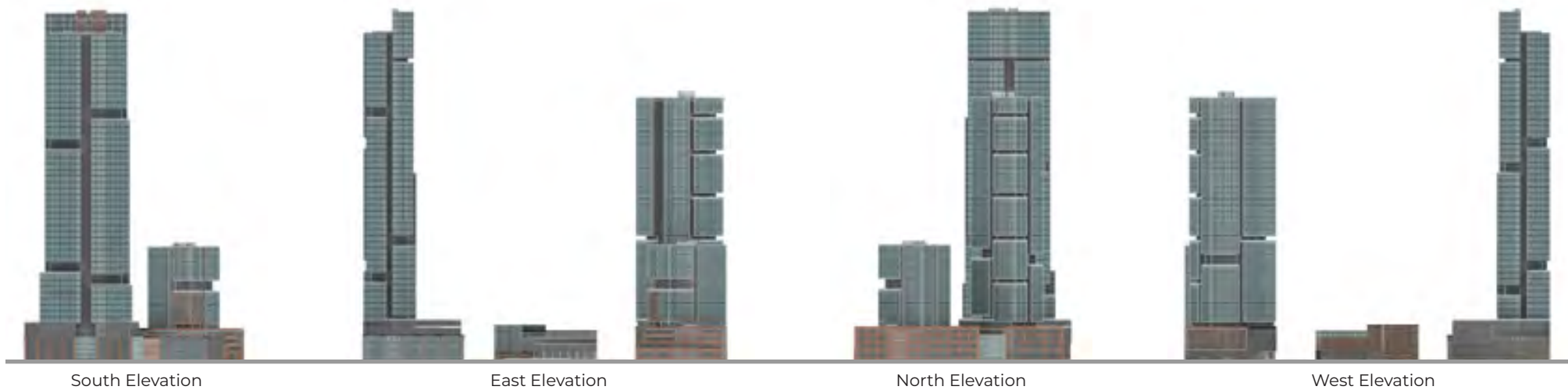
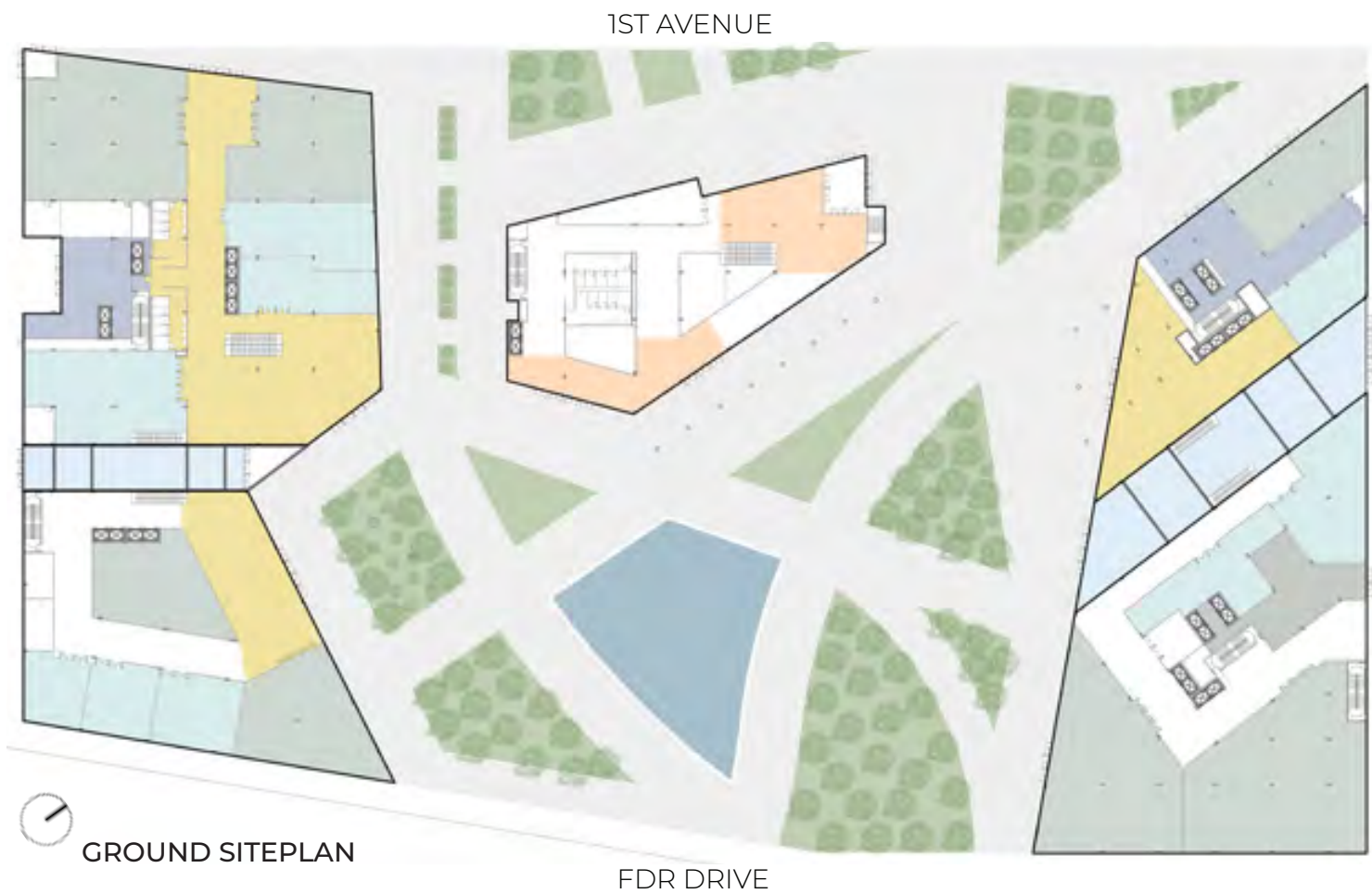


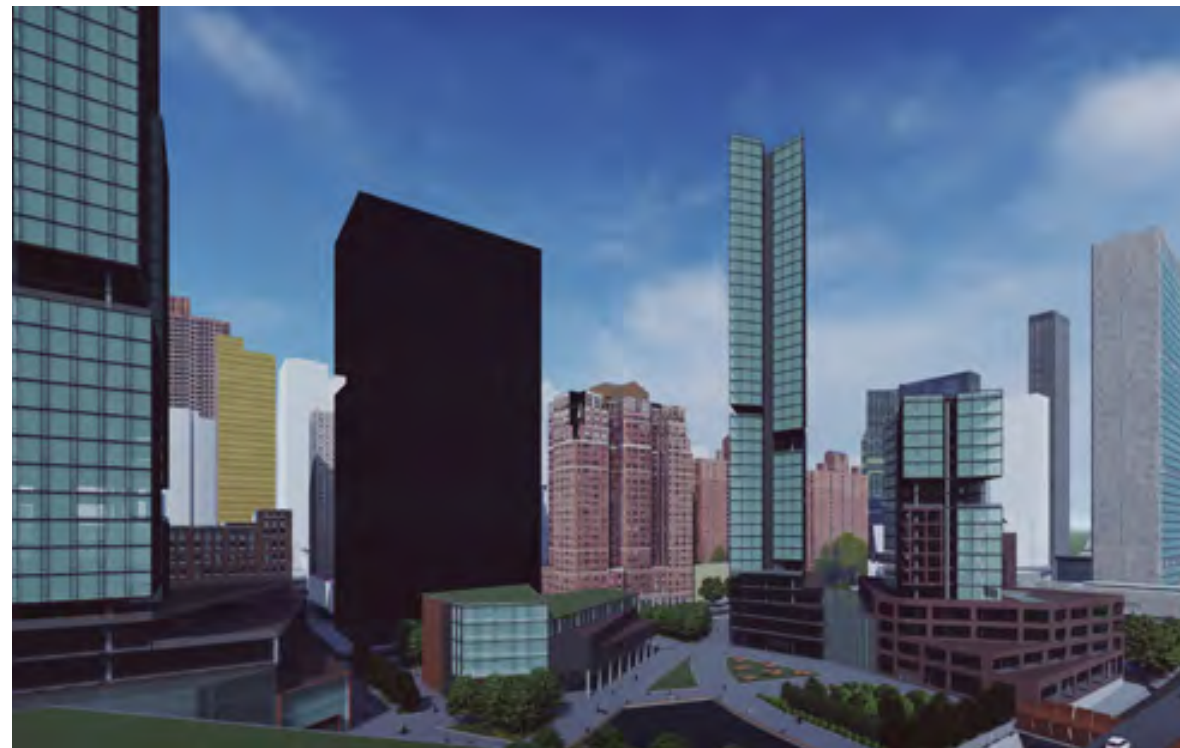
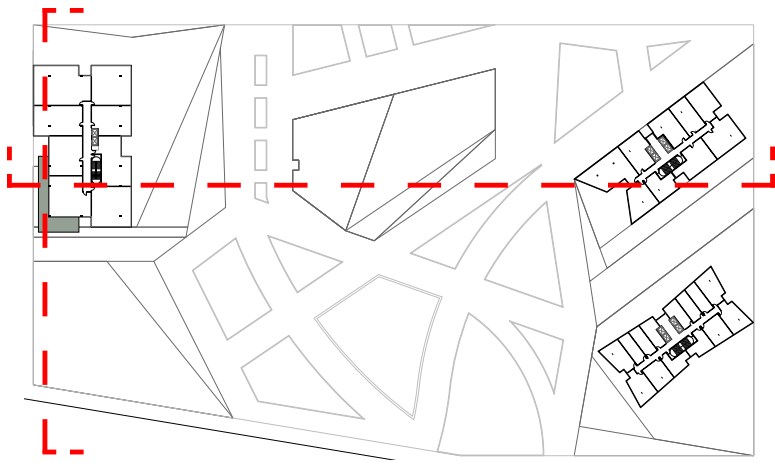
RESIDENTIAL TOWER I 56 Floors total. 694,766 sq.ft.	MUSEUM 5 Floors Total. 192,896 sq.ft.
RESIDENTIAL TOWER II 44 Floors Total. 390,786 sq.ft.	MIXED-USE FACILITY 3 Floors Total. 130,006 sq.ft.
HOTEL TOWER 18 Floors Total. 245,786 sq.ft.	Total Development Sq. ft. 1,654,250sq.ft.

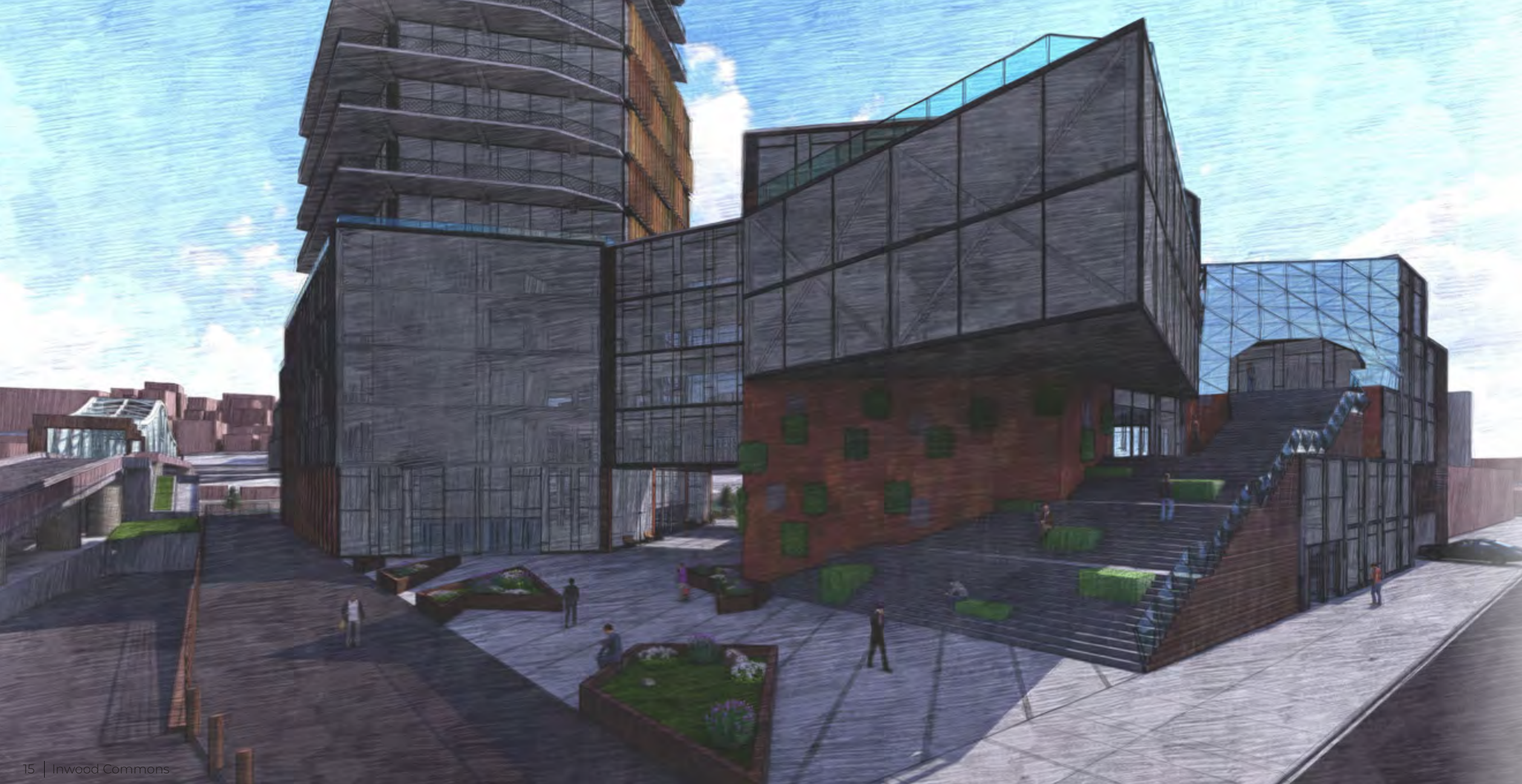


Commercial	Gallery	Greenspaces
Hospitality	Mixed-Use	Multi-Use Fountain
Residential	Museum	

- Main Lobby
- Museum Lobby
- Residential Lobby
- Hotel Lobby
- Main Retail
- Retailers
- Public Gallery







Inwood Commons

3856 9TH Avenue, New York, New York.

Spring 2020. Urban Design Studio

Collaborative Studio Project

Instructor:

Dr. Jihun Kim, RA

In collaboration with:

Bryant Vera, Mai Esmail

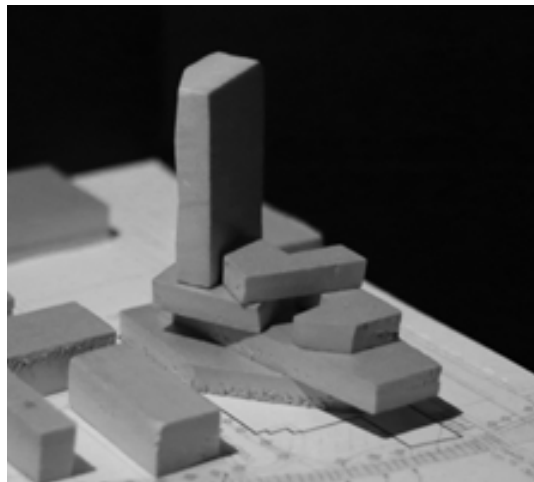
Synopsis

The main focus of the studio was environmental sustainability. Emphasis was placed on qualitative and quantitative research on the façade, building, and site.

Precedent studies and performance analyses were conducted in order to maximize façade efficiency. Architectural programming and site analyses were also created a set of guiding principles to design.

The Inwood Commons was designed to revitalize the neighborhood of East Inwood; located in Upper Manhattan. The concept was to create a “city within a city” – providing the local community with a space for institutional, commercial, and recreational areas all under one roof.

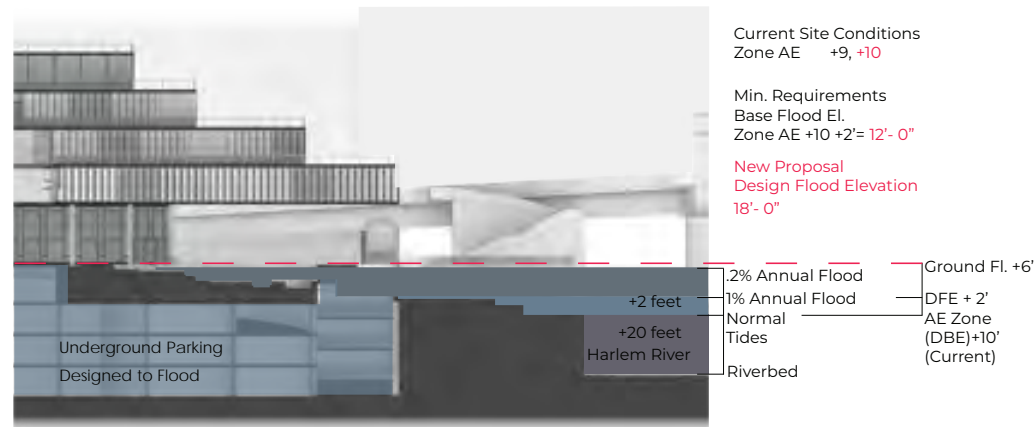
The project which is located in an AE coastal zone was developed to provide flood protection, improve accessibility to local surroundings and create a comfortable environment for all.



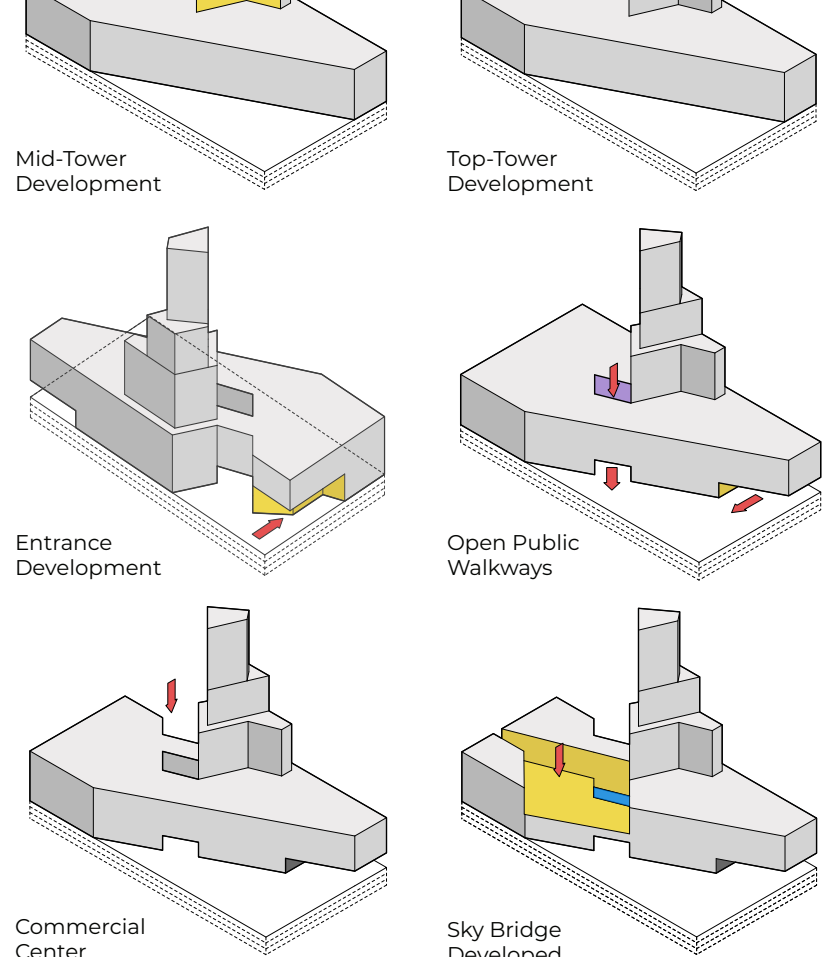
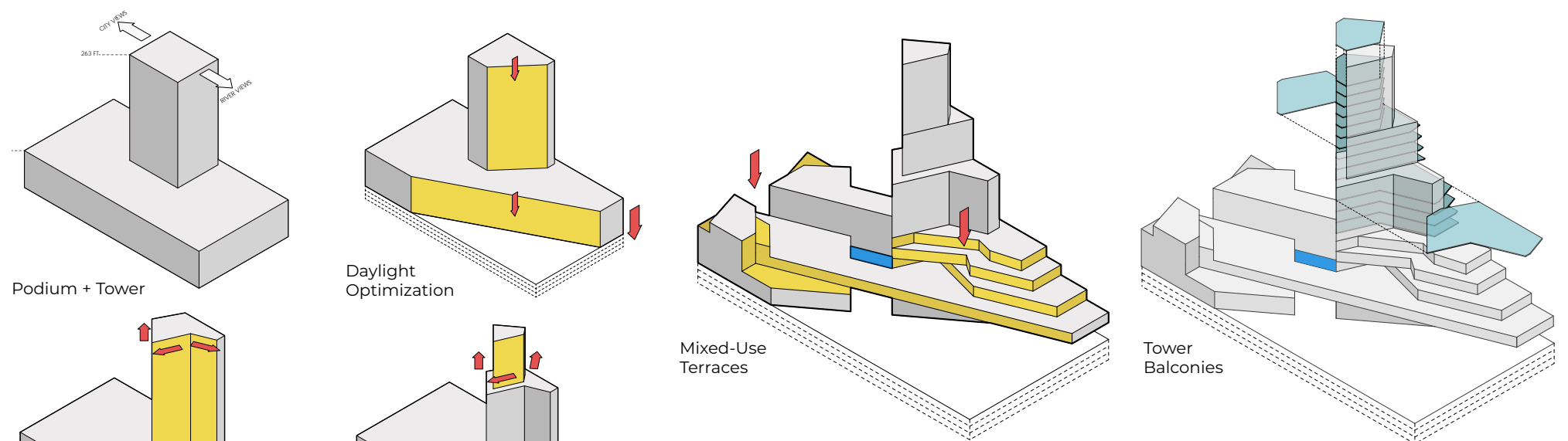
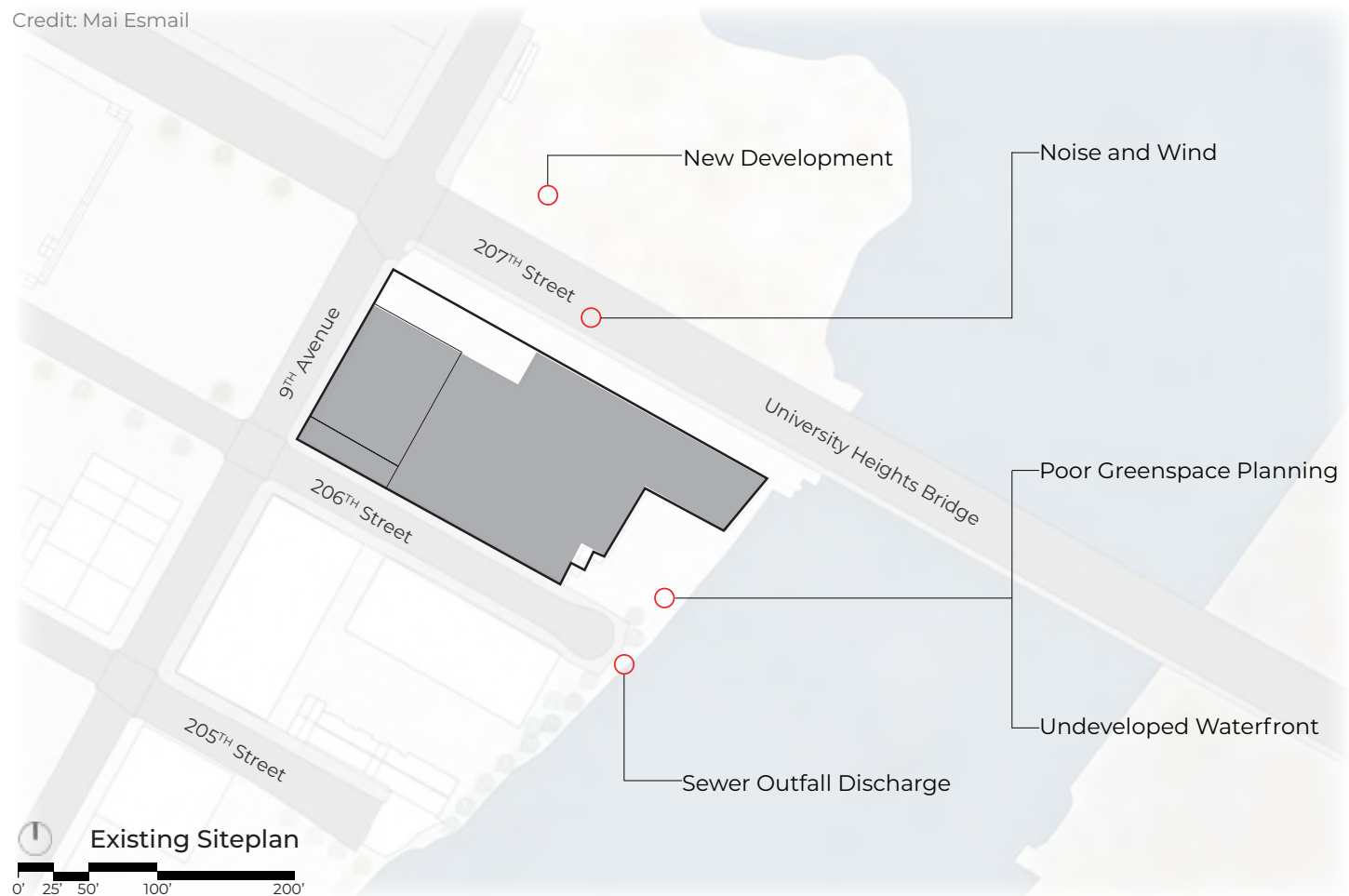
Left
As a group, we developed these study models to focus on program layout while taking advantage of the current site conditions.

Right
The proposed waterfront flood solution is made up of a stepped park toward the river front. The area is meant to flood, resulting in a new fully accessible waterfront.

Flood Hazard Solution

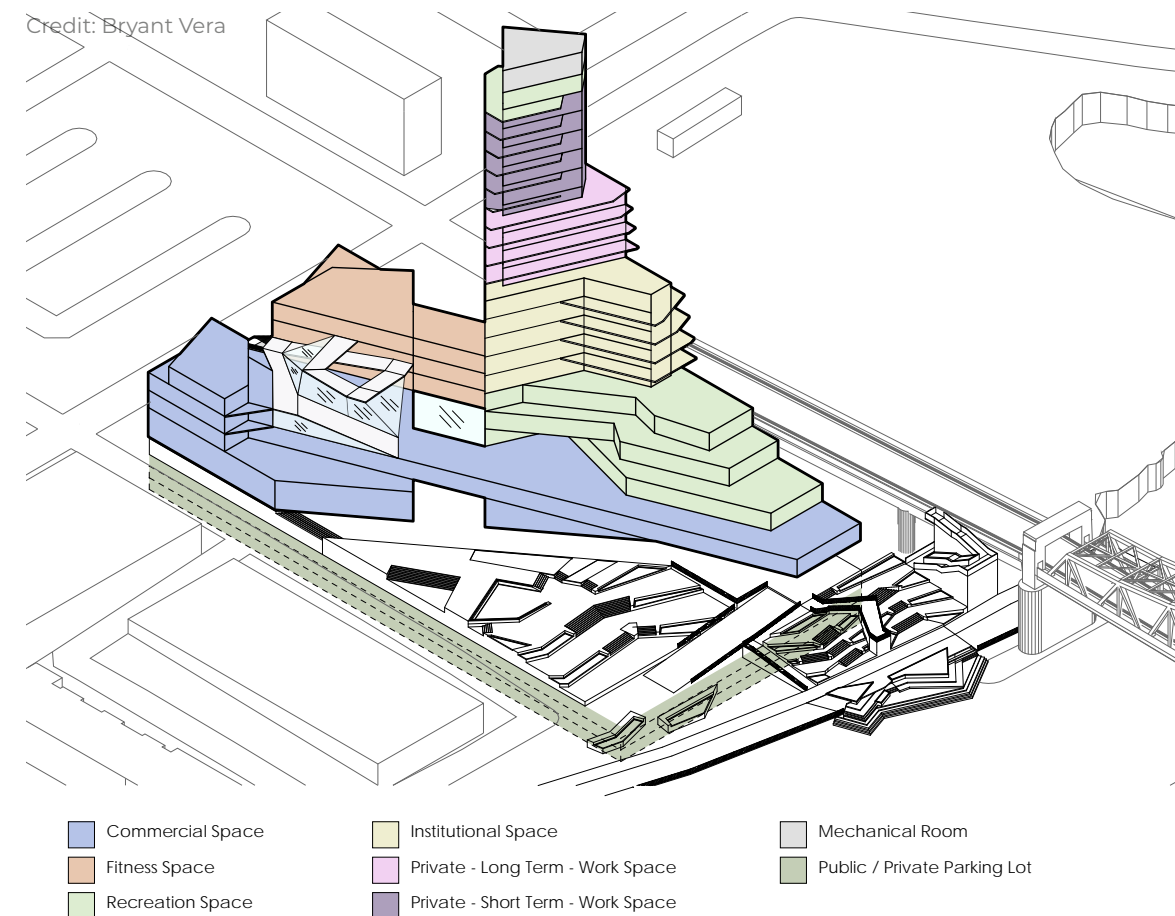


Credit: Mai Esmail



Design Concept Diagrams & Program

Credit: Bryant Vera



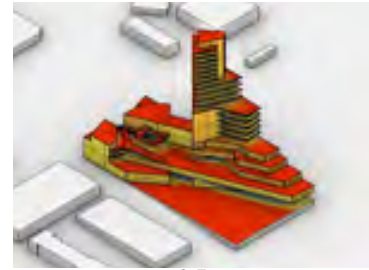
Solar Massing Simulations

Winter Season

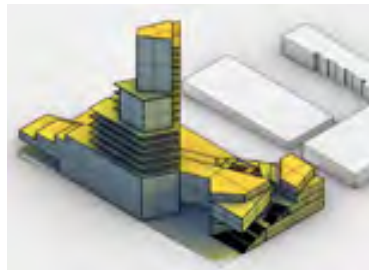


S-E

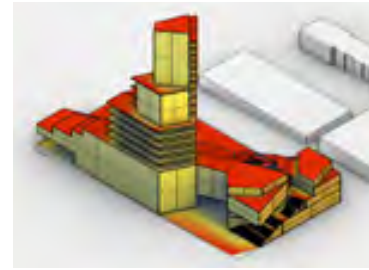
Summer Season



S-E

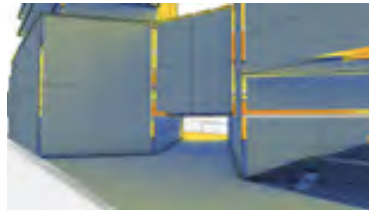


N-W



N-W

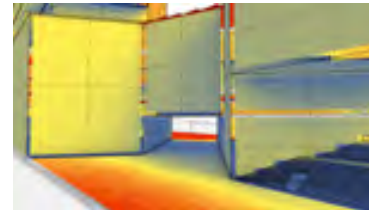
Building Perspectives



Entry Experience



Ground Floor Cantilever



Entry Experience

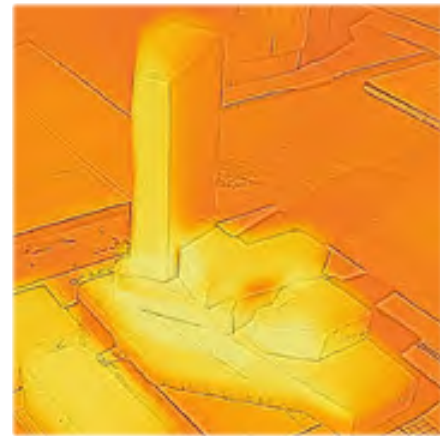
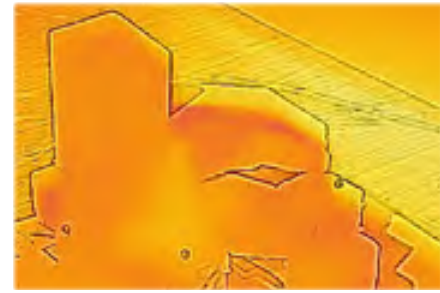


Ground Floor cantilever

Radiation, kWh/m2

0 67 133 200 267 333 400

Study Models Thermography

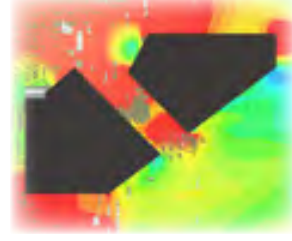


Thermography Findings

Infrared camera was used in order to mimic sunlight. We were able to see areas of high exposure to sunlight throughout different times of the day around our study models.

Wind Massing Simulations

Winter Season

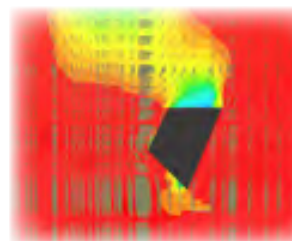
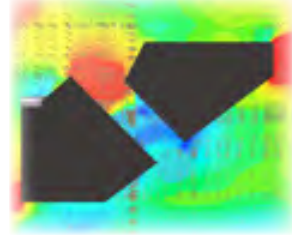


Winter Results

During the winter, the NW air currents flow streamlined around the upper floors

The Adjacent Building aids in blocking the NW wind currents around lower floors

Summer Season



Summer Results

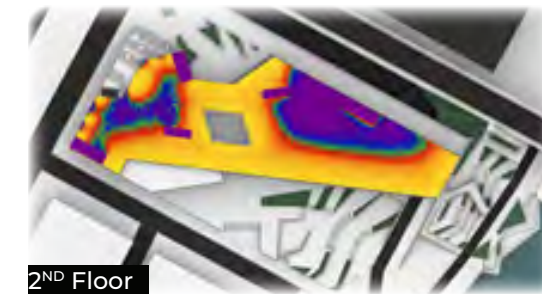
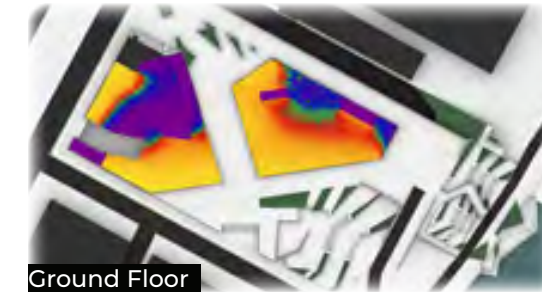
During the summer, the SW air currents flow streamlined around the lower levels in our massing model.

The angled terraces and massing shape successfully resist wind forces.

Indoor Daylight Daylight Simulation Report

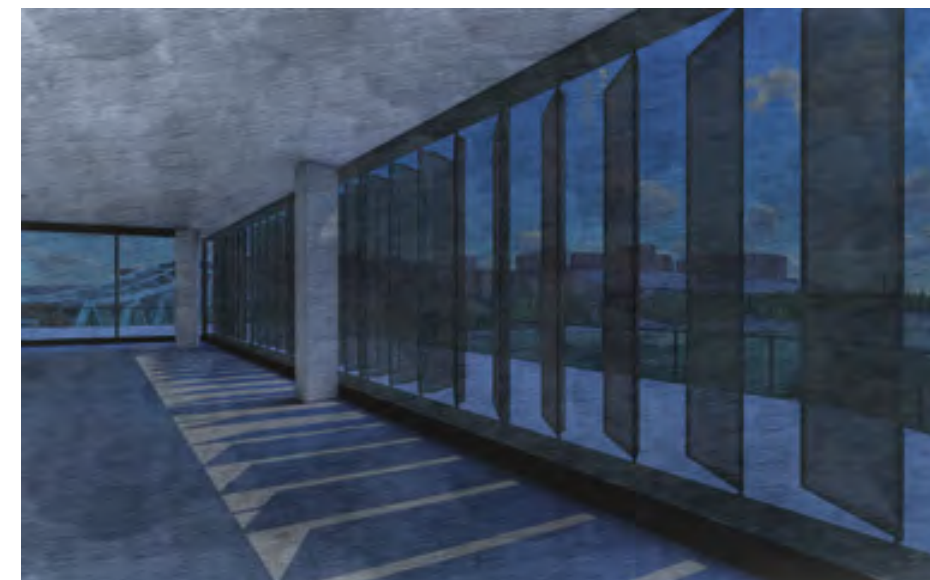
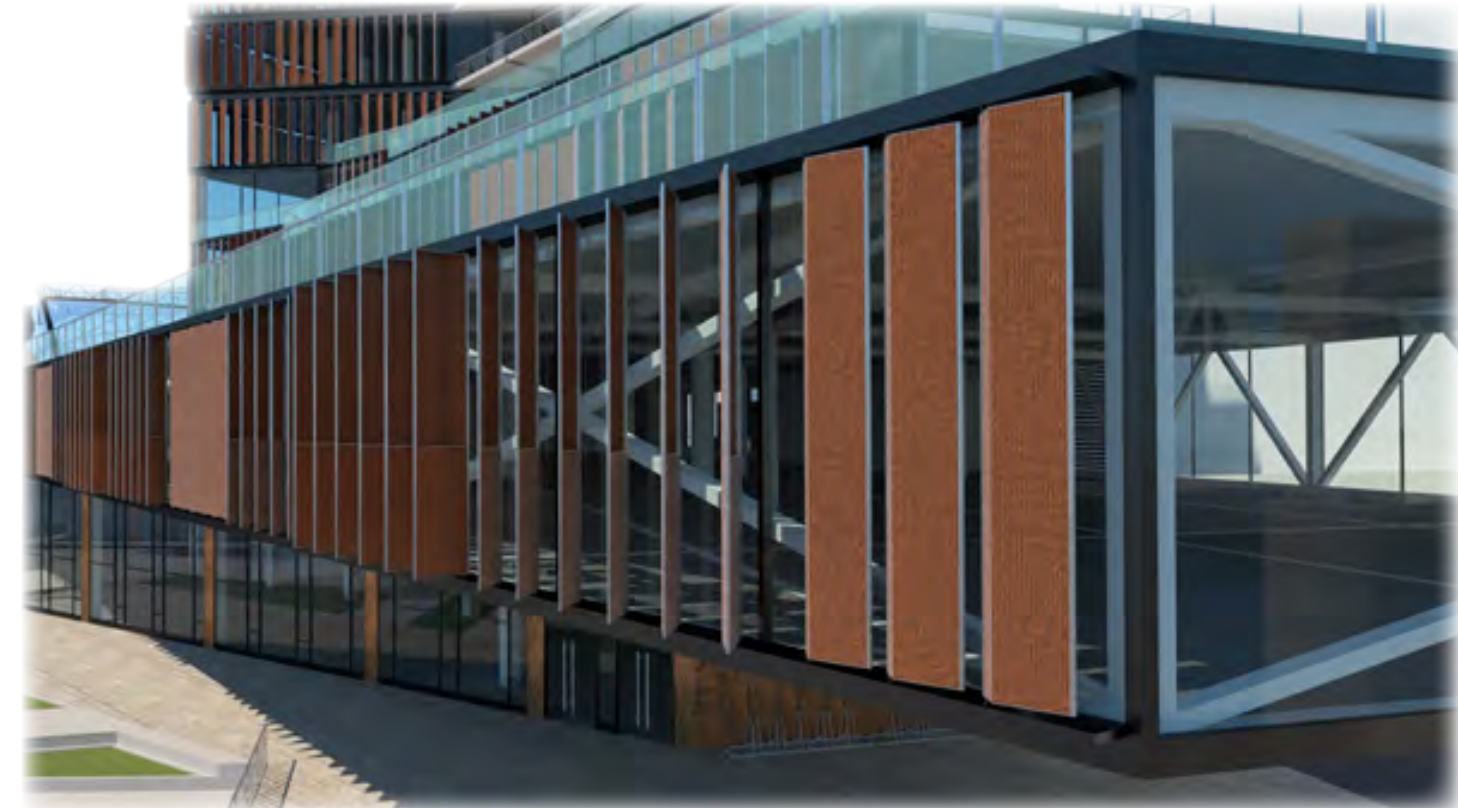
Retail Spaces
Communal
Workspace

Avg. 60% of time occupied
Avg. 85% of time occupied
Avg. 75% of time occupied



Illuminance, Lux
0 37 75 112 150 187 223 260 300

Building Façade Design & Highlights

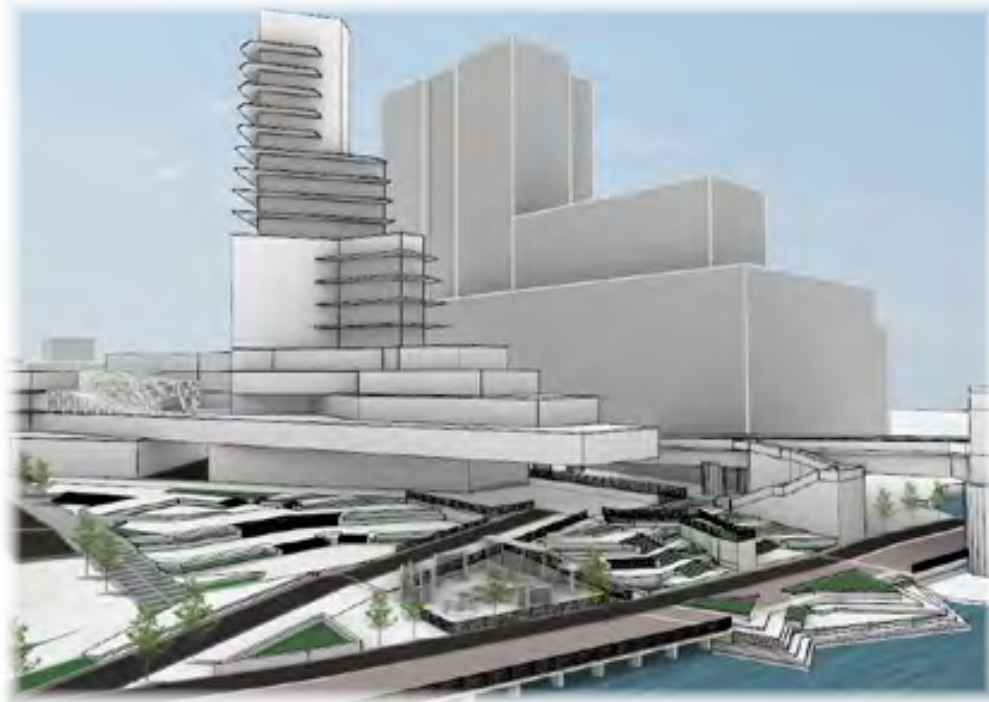


Operable Shading device allows for various lighting options for users.

Steel mesh and aluminum frame shading devices are durable and modular.

Added layer of protection to glass façade against any flying debris during storm like conditions.

The operable shading fins allow all users who desire more or less light the ability to set an orientation of their preference, resulting in a customizable experience.



Credit: Bryant Vera Normal Conditions



Credit: Mai Esmail North Elevation



North Section



West Section



Credit: Bryant Vera .2% Annual Flood



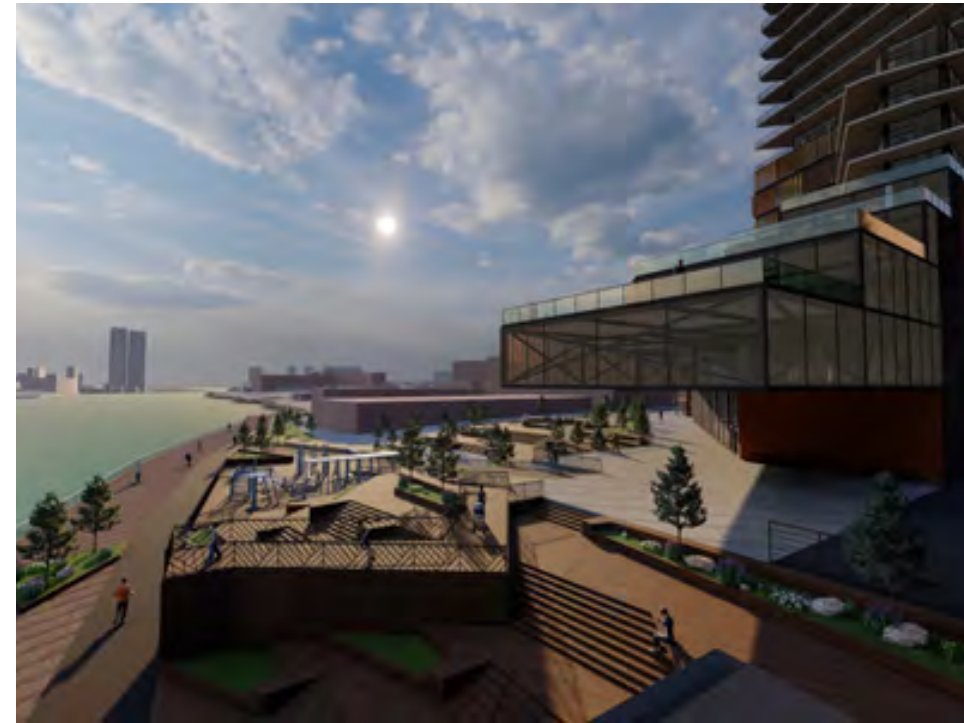
Credit: Mai Esmail West Elevation

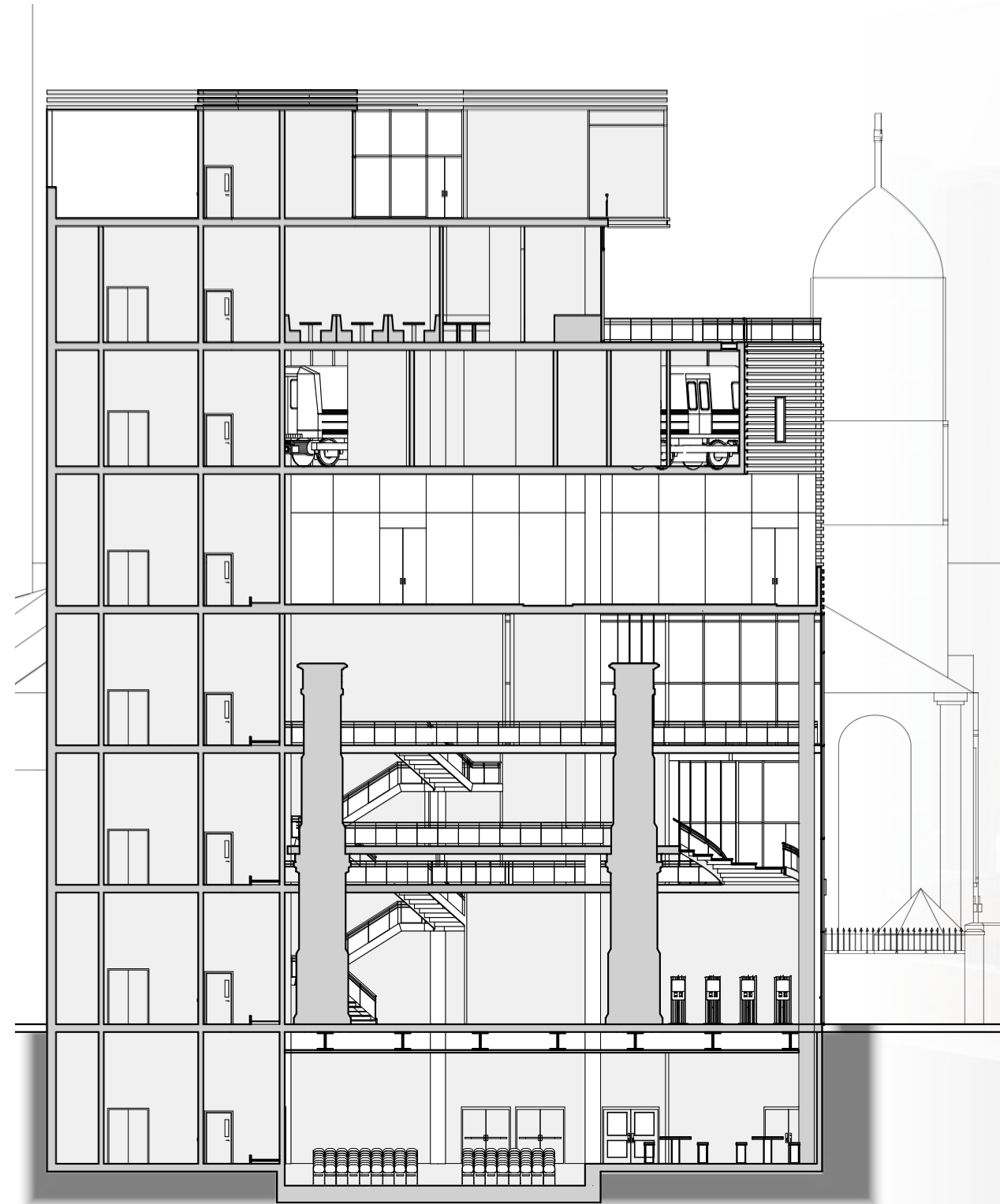
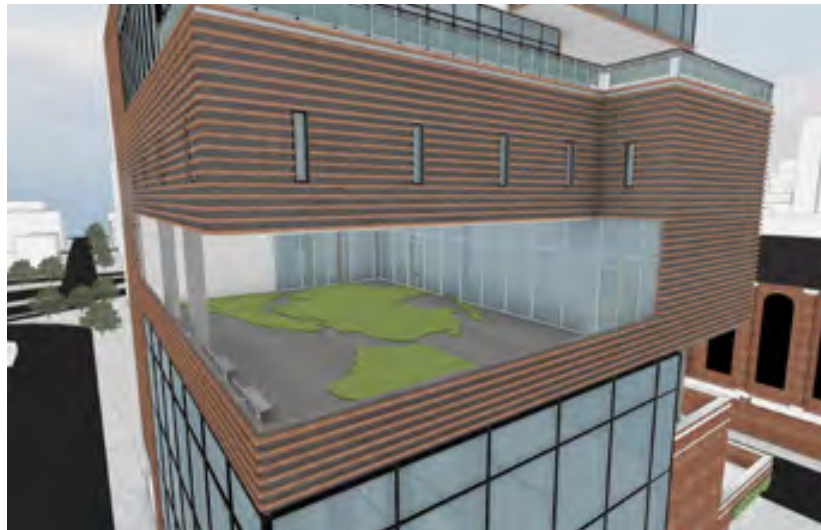


South Section



East Section





History of NYC Museum

223 Jay Street, Brooklyn, New York.

Fall 2018. Digital Design Studio
Individual Studio Project

Instructor:
Prof. Augustin Maldonado, RA | AIA

Synopsis
“The rejuvenation of DUMBO has revitalized dozens of historically significant buildings, transformed the waterfront, and new high rise residential and commercial structures have transformed the entire area. Imagining that you are not only the architect, but also a visionary curator who will make this new museum an exciting destination for local, regional, national and international visitors”.

The proposed museum contains exhibits that trace the development of New York City back to its origin. Starting with the Dutch colony–New Amsterdam to its modern day transformation in the following centuries to what it is known today as the Financial capital of the world.



Public Transportation
Bus & Subway Service



NYC Bike Routes
Designated roads & paths



Neighborhood Traffic
Average weekday pattern



NYC Parks & Greenspaces
Open public spaces



Figure Ground
Built vs open environment



Land Use
Neighborhood land-use



Siteplan

Project Site ■

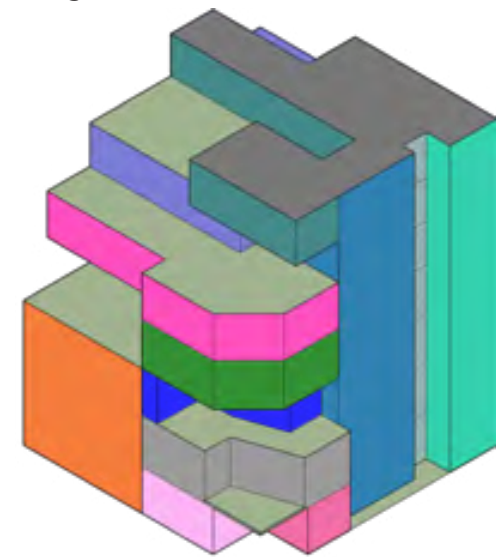


Left
Six conceptual Ground Level layout iterations showing the relationship between spaces and the required amenities. Ground level layout sketch shown below

Right
Study model created using rigid insulation. The model allowed me to visualize and develop the spaces as part of the program. Inspired by FG drawing, I used the open and built elements to create the galleries with different light exposure for an engaging public experience.

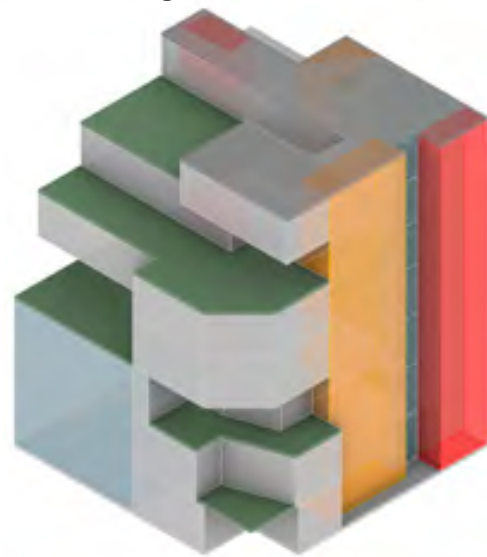


Program

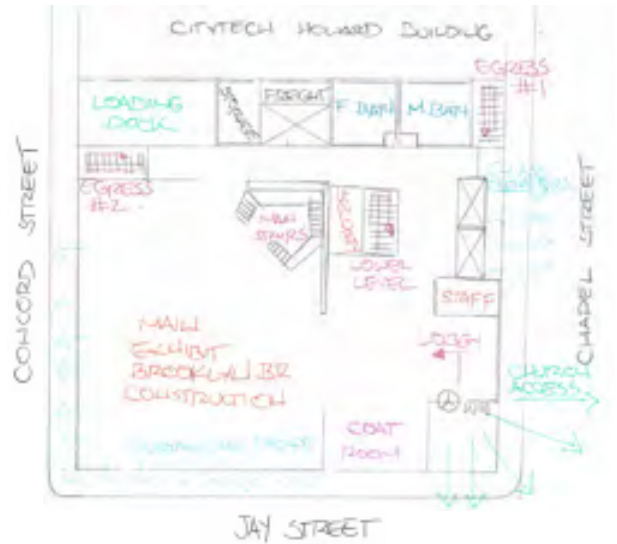


- Main Entrance
- Egress Stair
- 1600's
- Coat Room
- Restaurant
- 1700's
- Main Exhibit
- Administrative
- 1800's
- Public Elevators
- Outdoor Space
- 1900's

Access & Egress



- Public Elevators
- Freight Elevator
- Egress Stairs

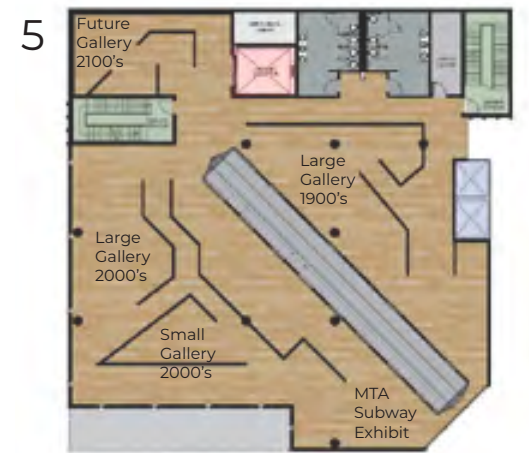
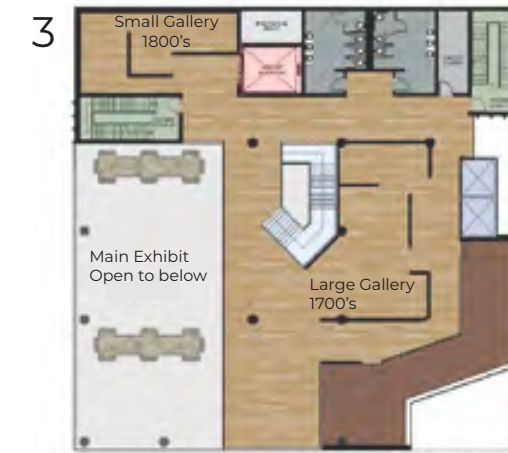


Museum Floor Plans

Rendered Layout



GROUND LEVEL





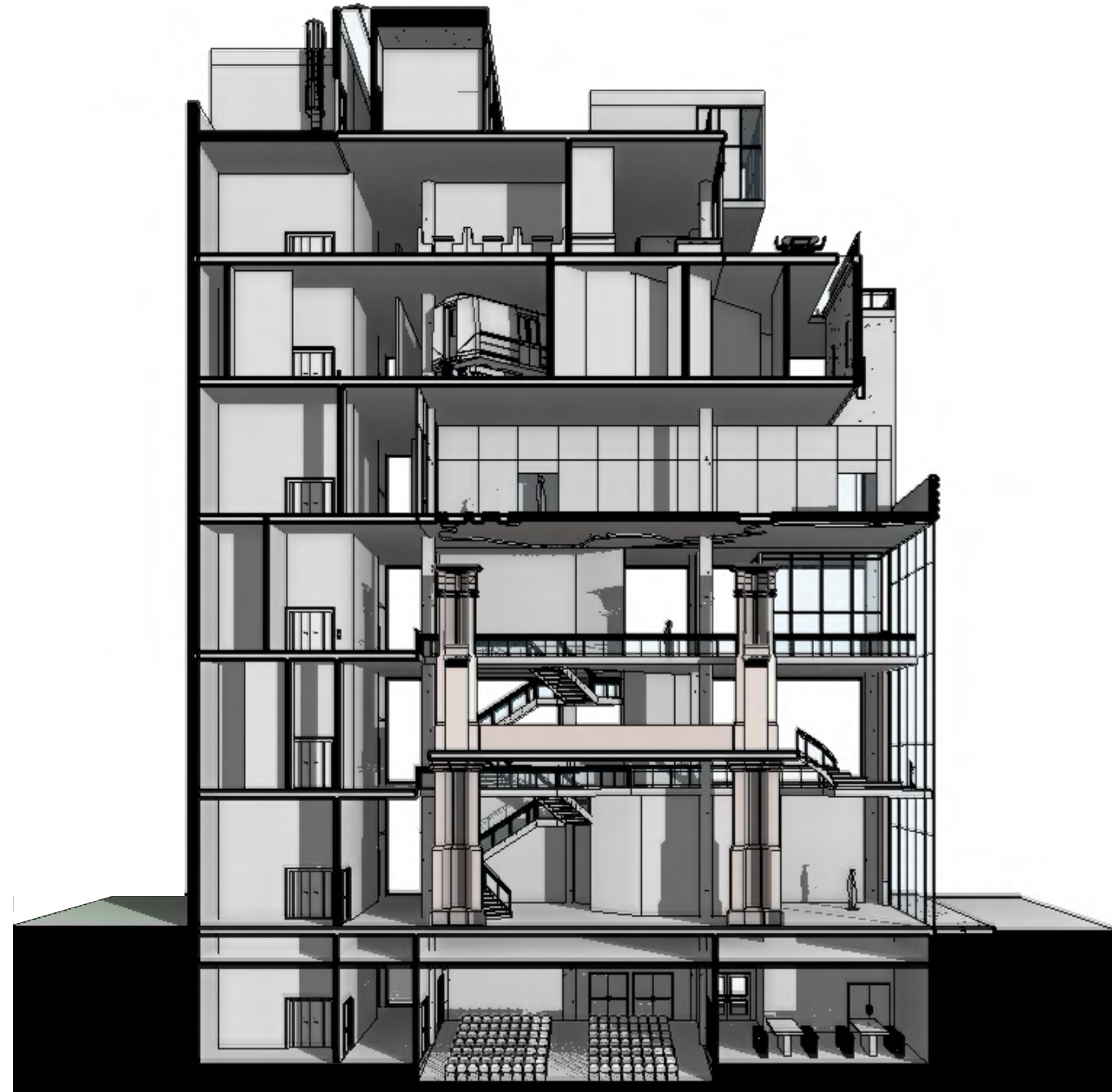
East Elevation



North Elevation



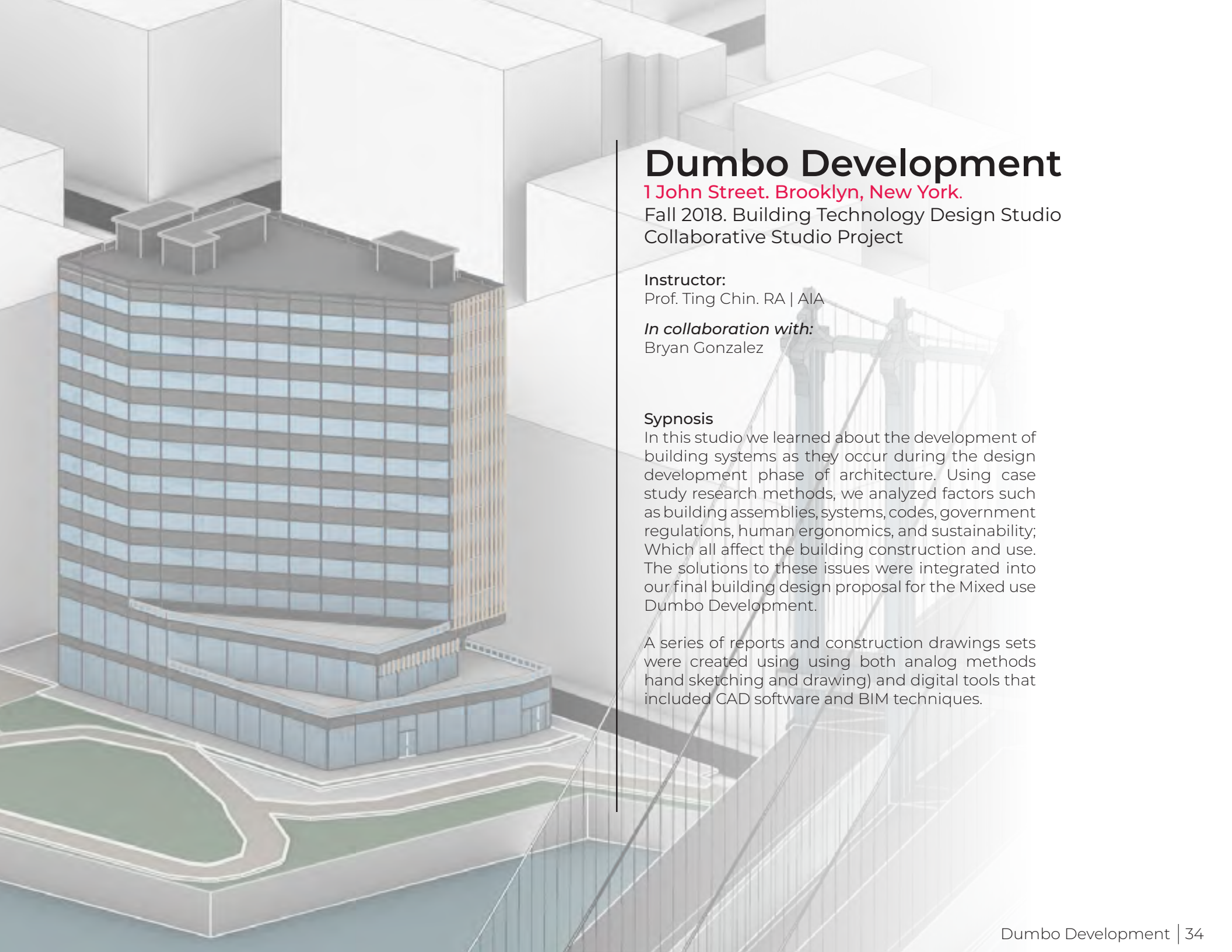
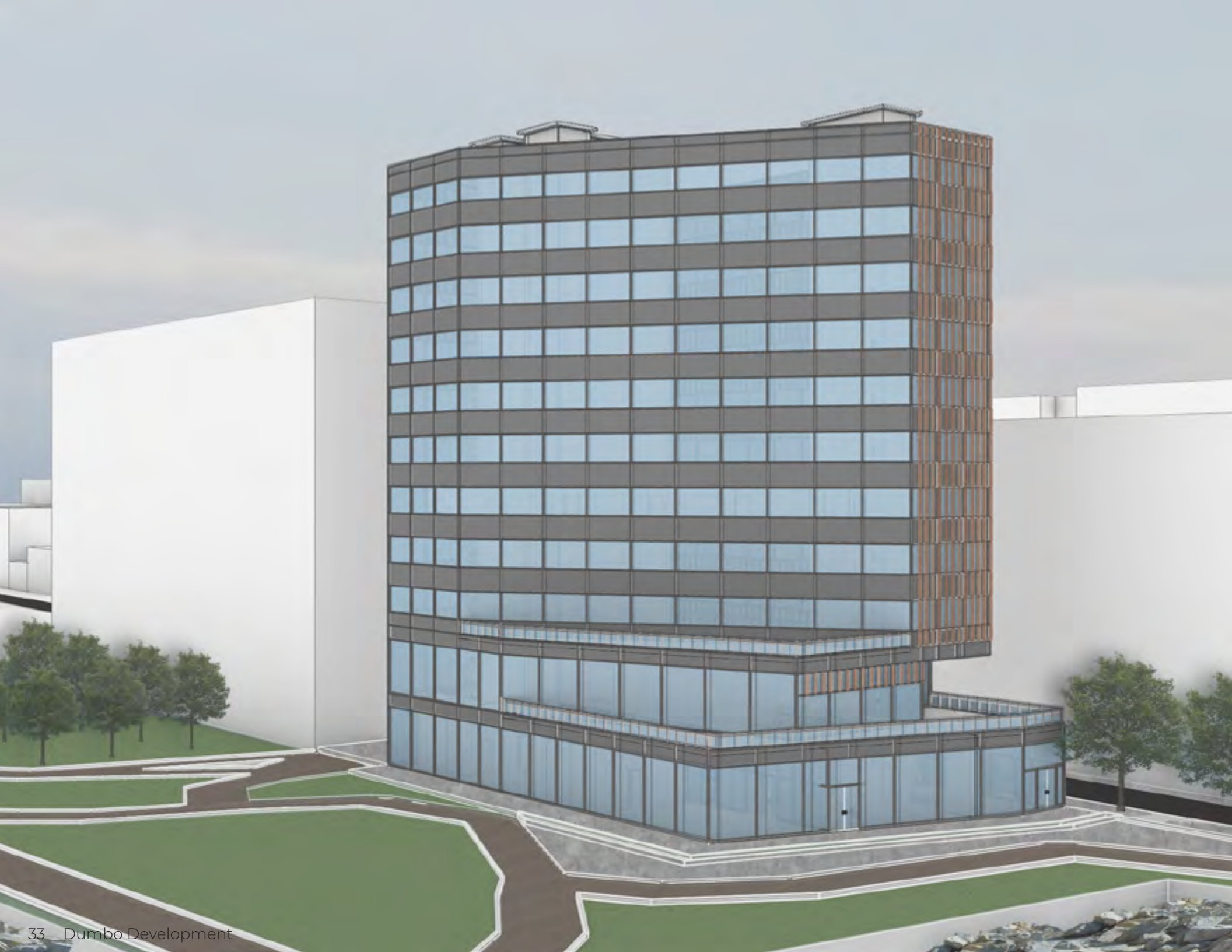
South Elevation



North - South Section



East - West Section



Dumbo Development

1 John Street, Brooklyn, New York.

Fall 2018. Building Technology Design Studio
Collaborative Studio Project

Instructor:

Prof. Ting Chin, RA | AIA

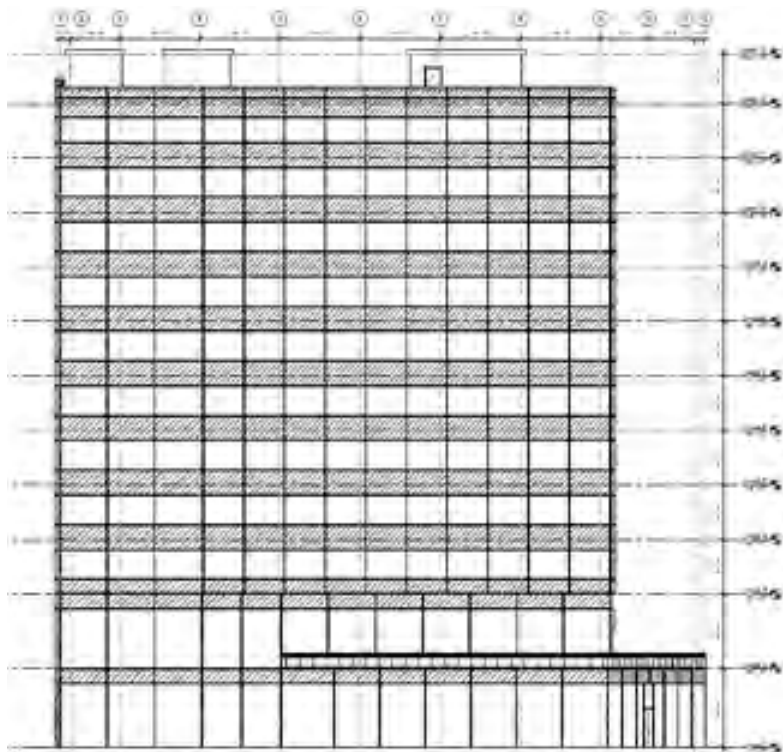
In collaboration with:

Bryan Gonzalez

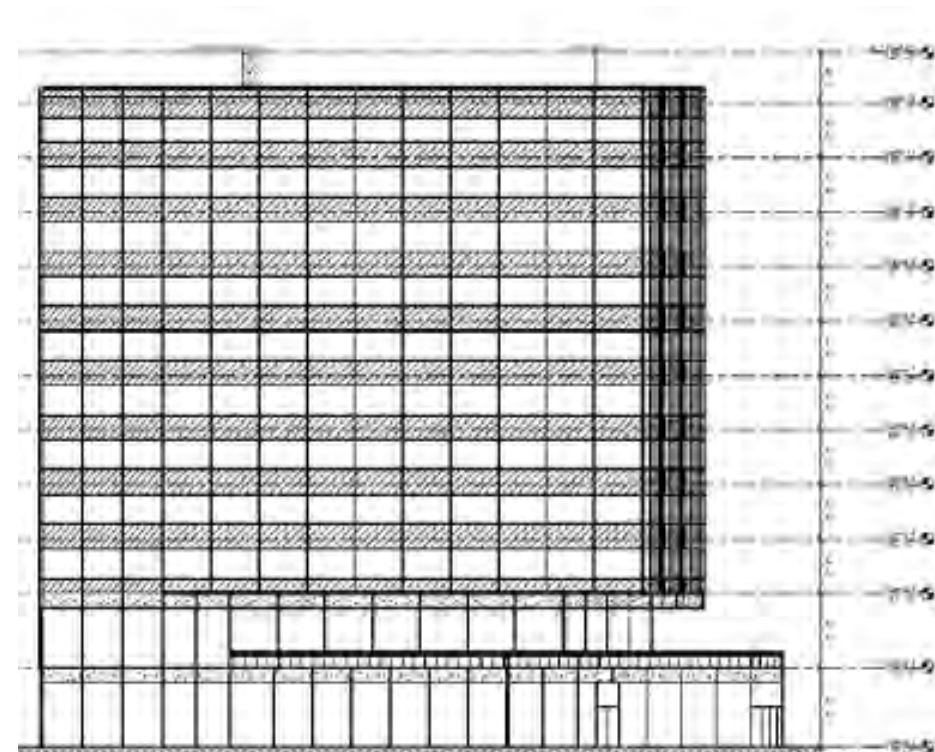
Synopsis

In this studio we learned about the development of building systems as they occur during the design development phase of architecture. Using case study research methods, we analyzed factors such as building assemblies, systems, codes, government regulations, human ergonomics, and sustainability; Which all affect the building construction and use. The solutions to these issues were integrated into our final building design proposal for the Mixed use Dumbo Development.

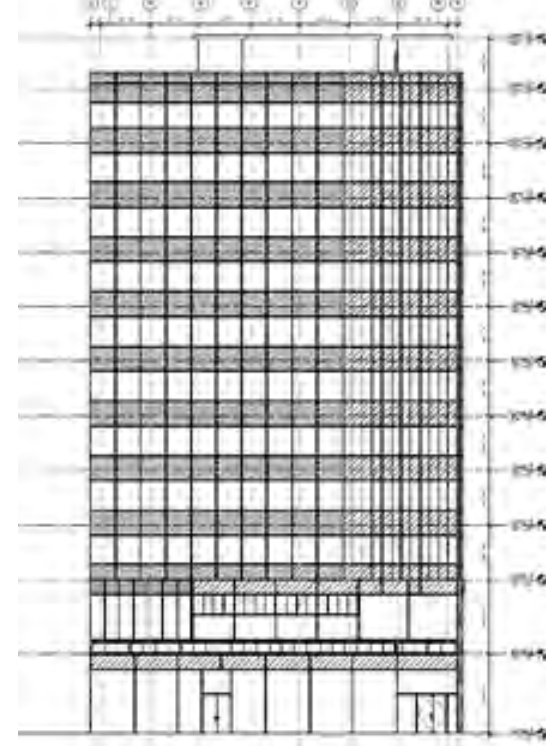
A series of reports and construction drawings sets were created using using both analog methods (hand sketching and drawing) and digital tools that included CAD software and BIM techniques.



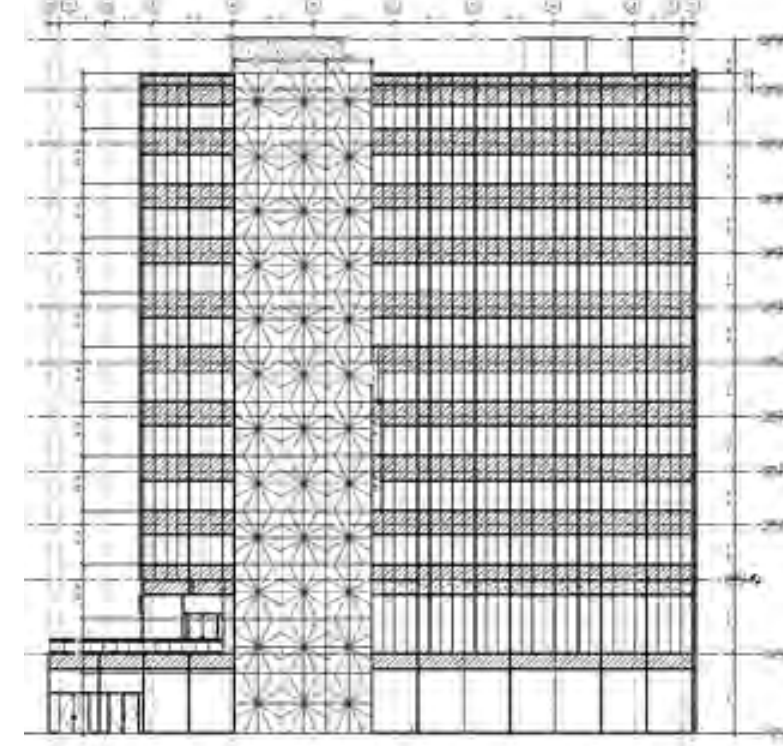
Front Elevation



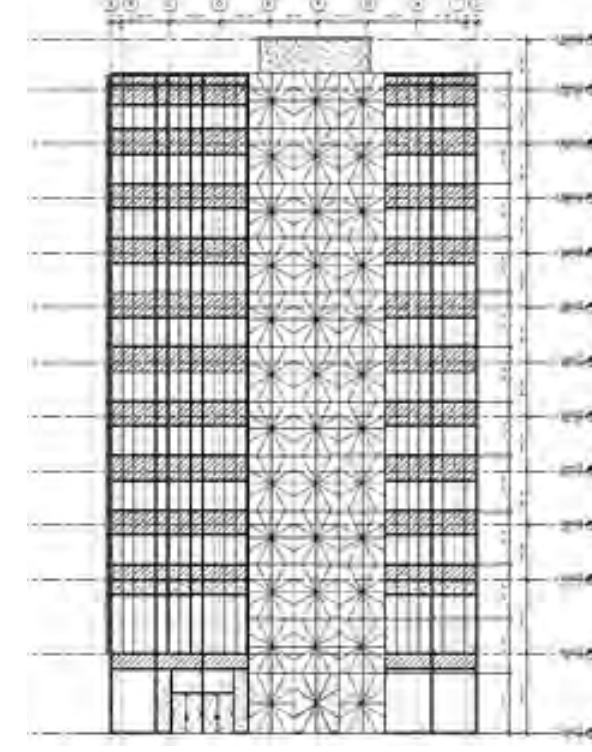
North Elevation



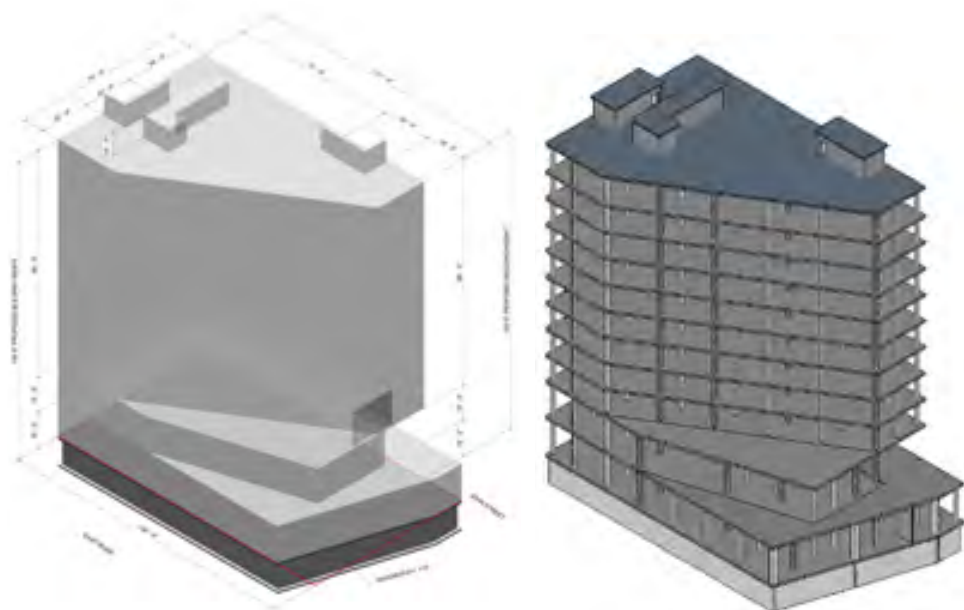
West Elevation



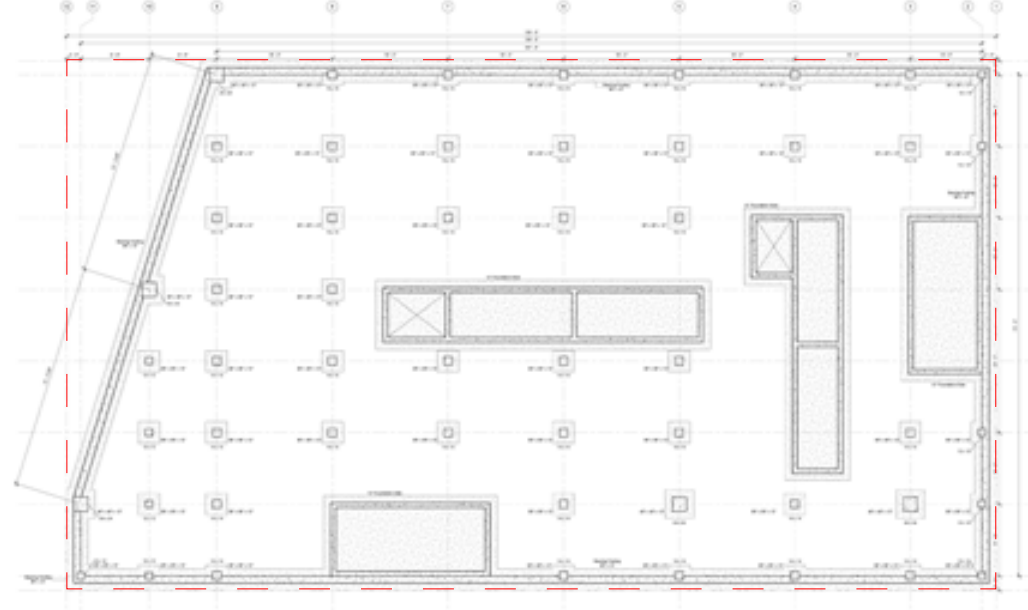
South Elevation



East Elevation



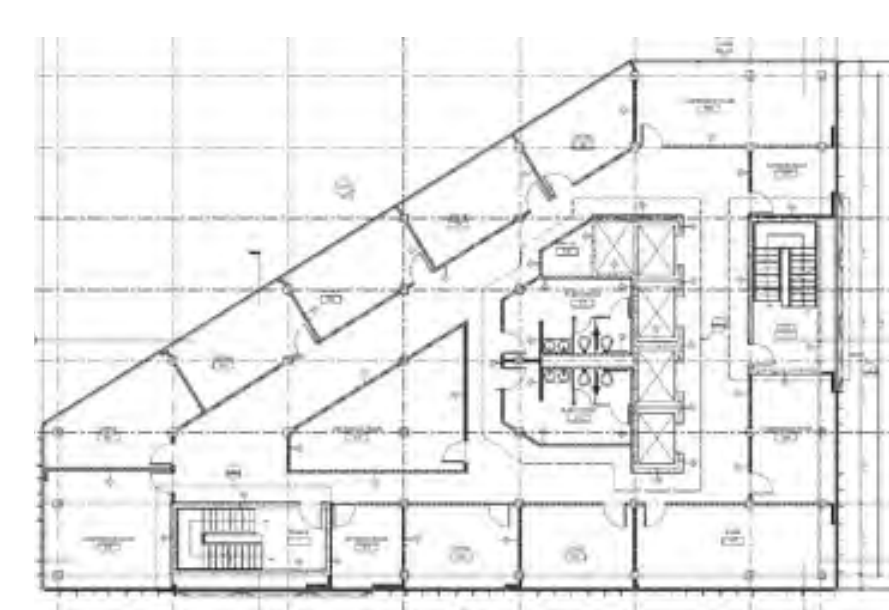
Credit: Bryan Gonzalez



Foundation Plan

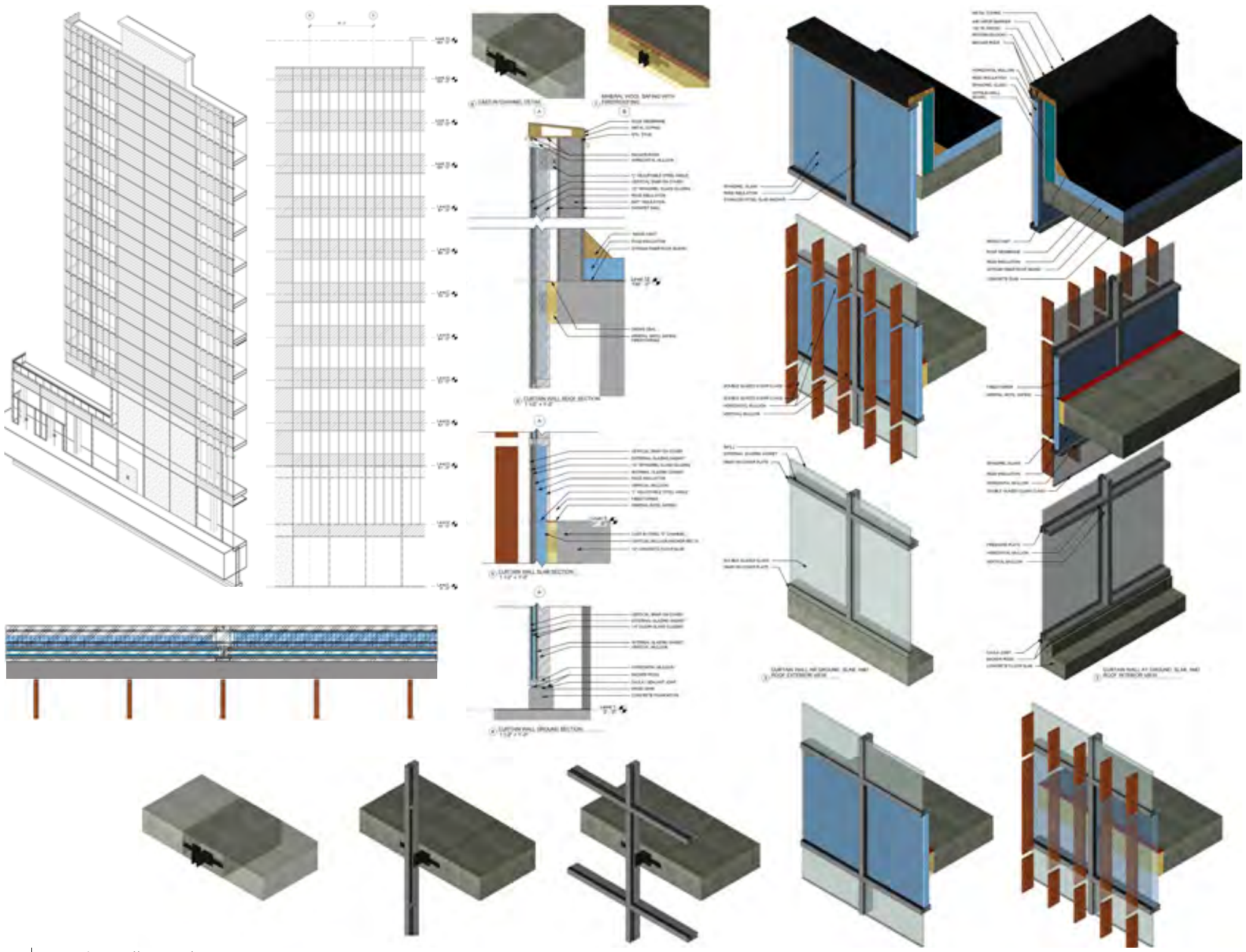


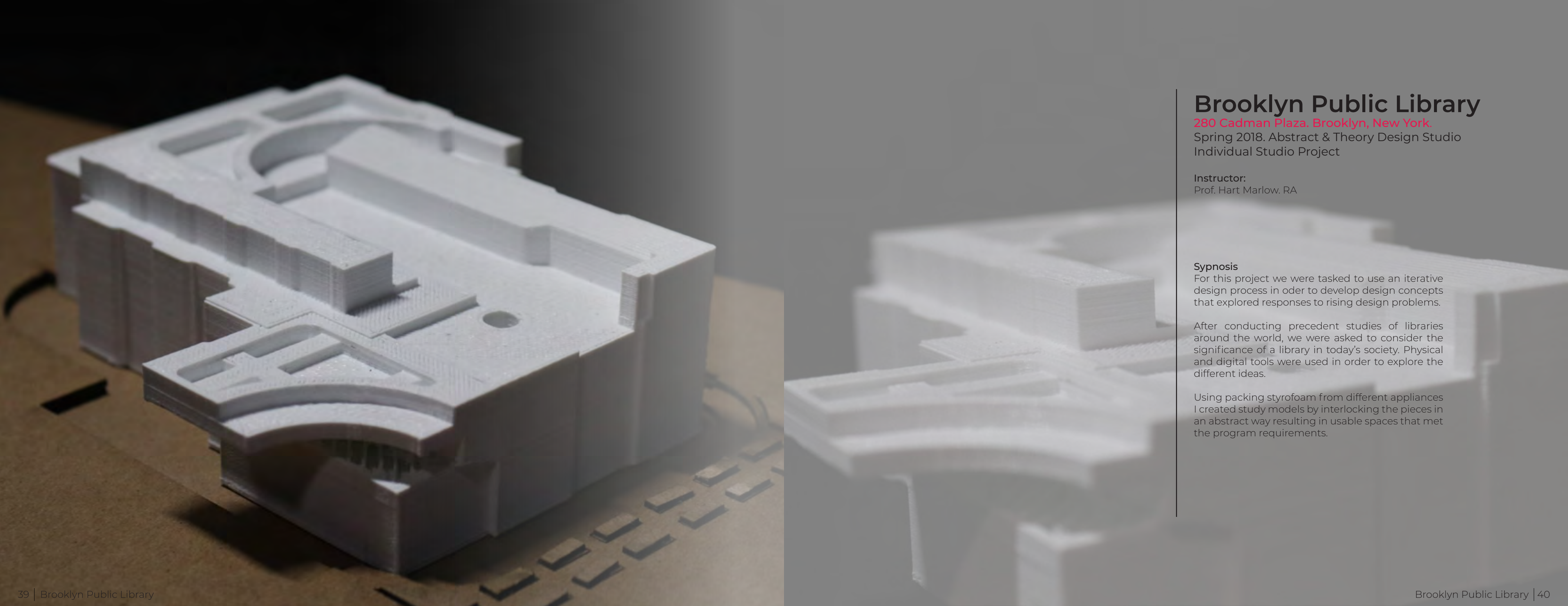
Ground Level Plan



Credit: Bryan Gonzalez

TYP. Office Level Plan





Brooklyn Public Library

280 Cadman Plaza, Brooklyn, New York

Spring 2018. Abstract & Theory Design Studio
Individual Studio Project

Instructor:

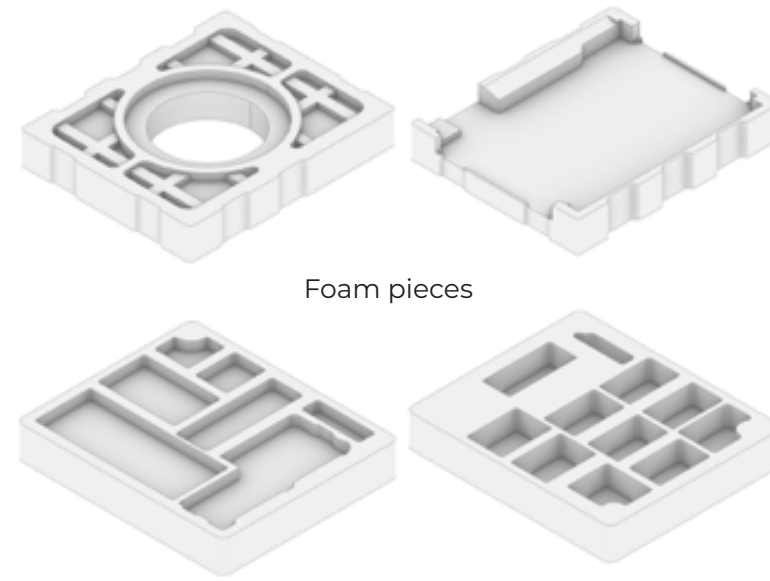
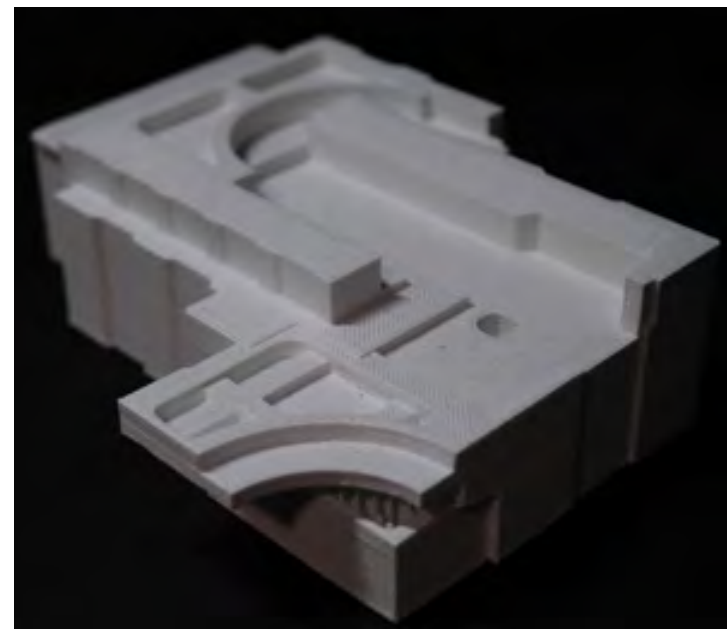
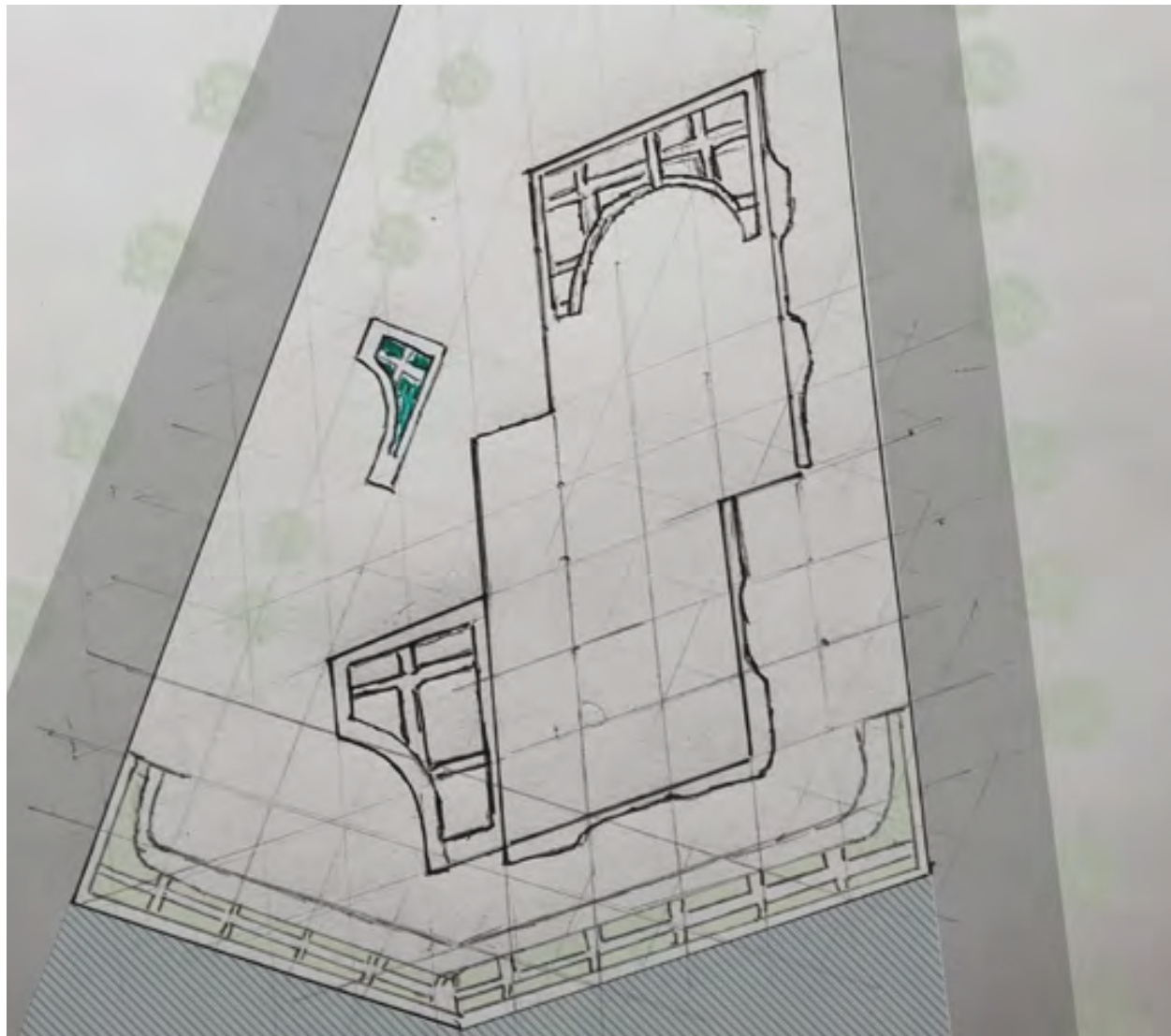
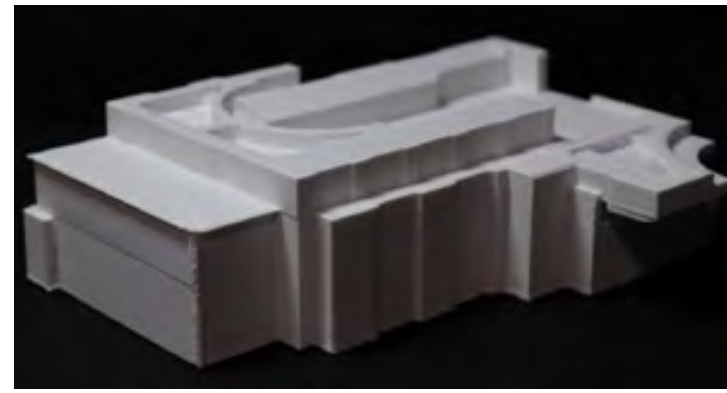
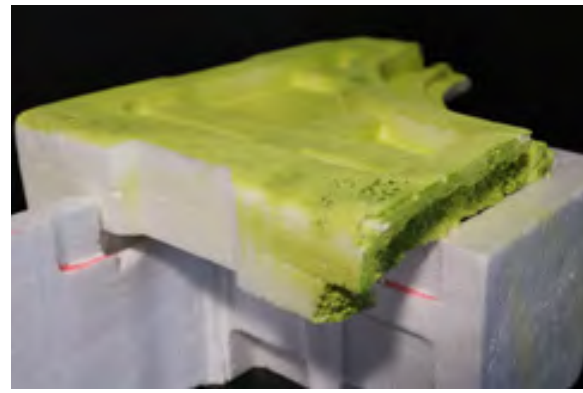
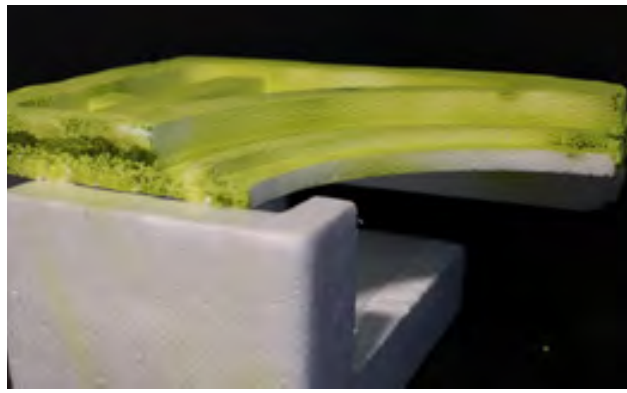
Prof. Hart Marlow, RA

Synopsis

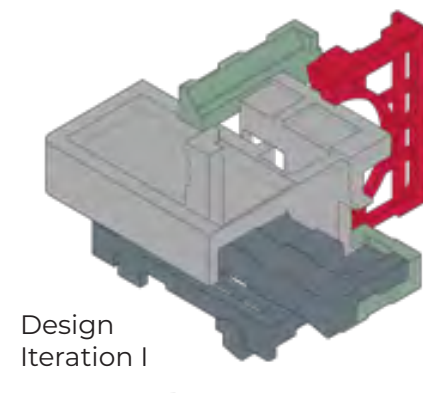
For this project we were tasked to use an iterative design process in order to develop design concepts that explored responses to rising design problems.

After conducting precedent studies of libraries around the world, we were asked to consider the significance of a library in today's society. Physical and digital tools were used in order to explore the different ideas.

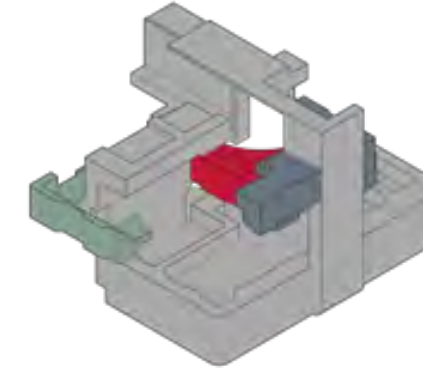
Using packing styrofoam from different appliances I created study models by interlocking the pieces in an abstract way resulting in usable spaces that met the program requirements.



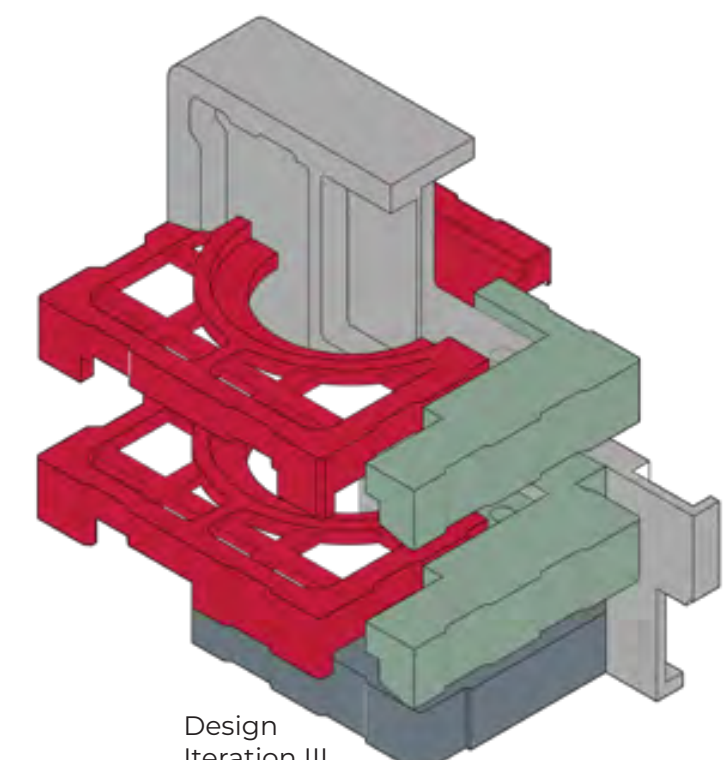
Foam pieces



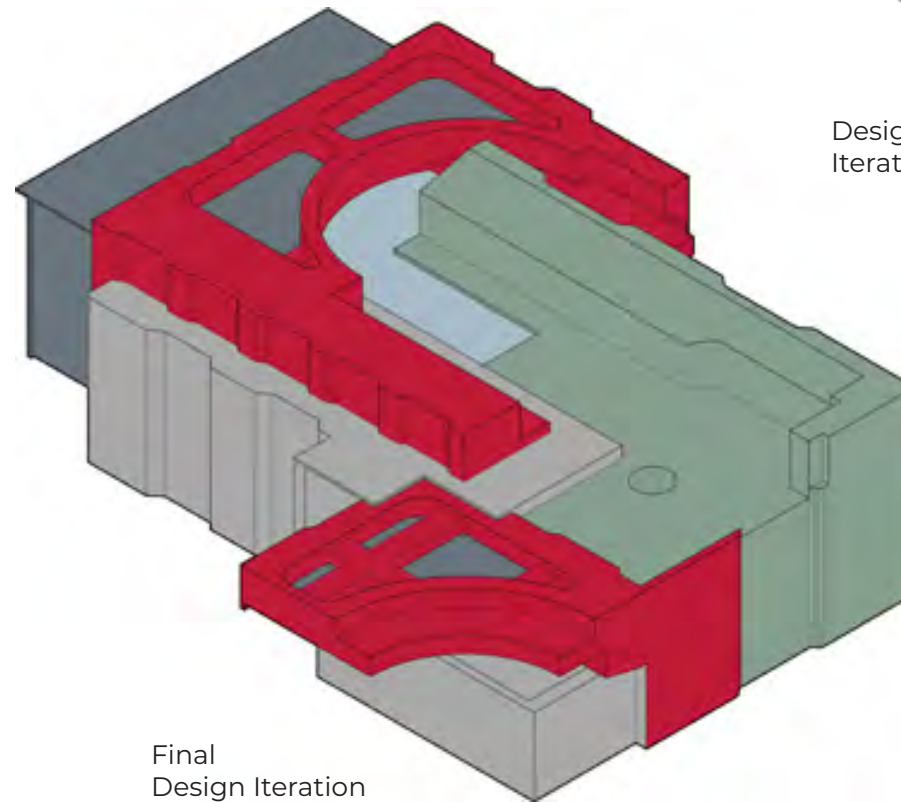
Design Iteration I



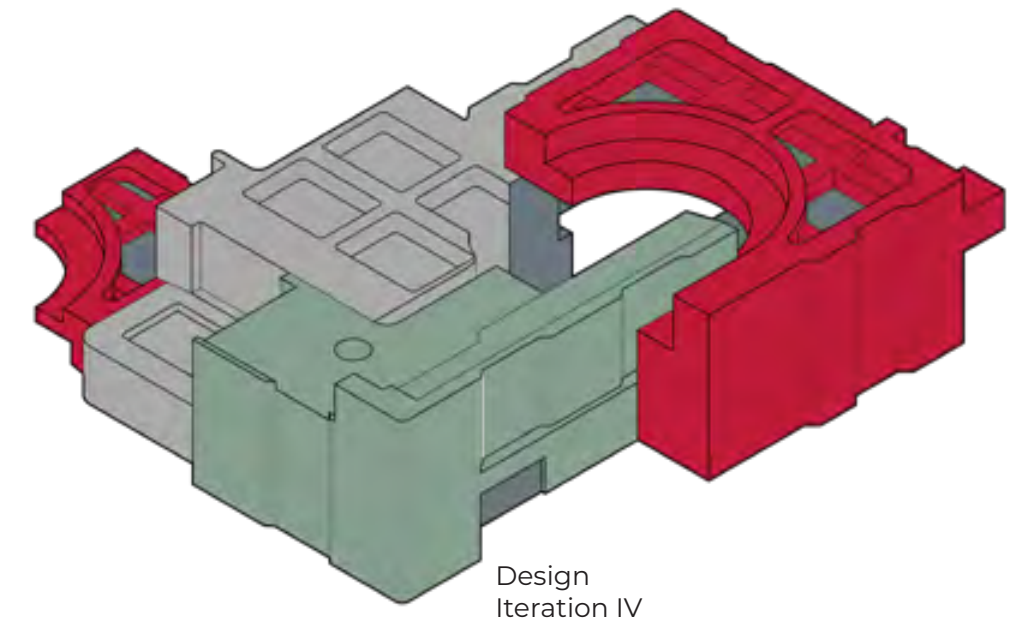
Design Iteration II



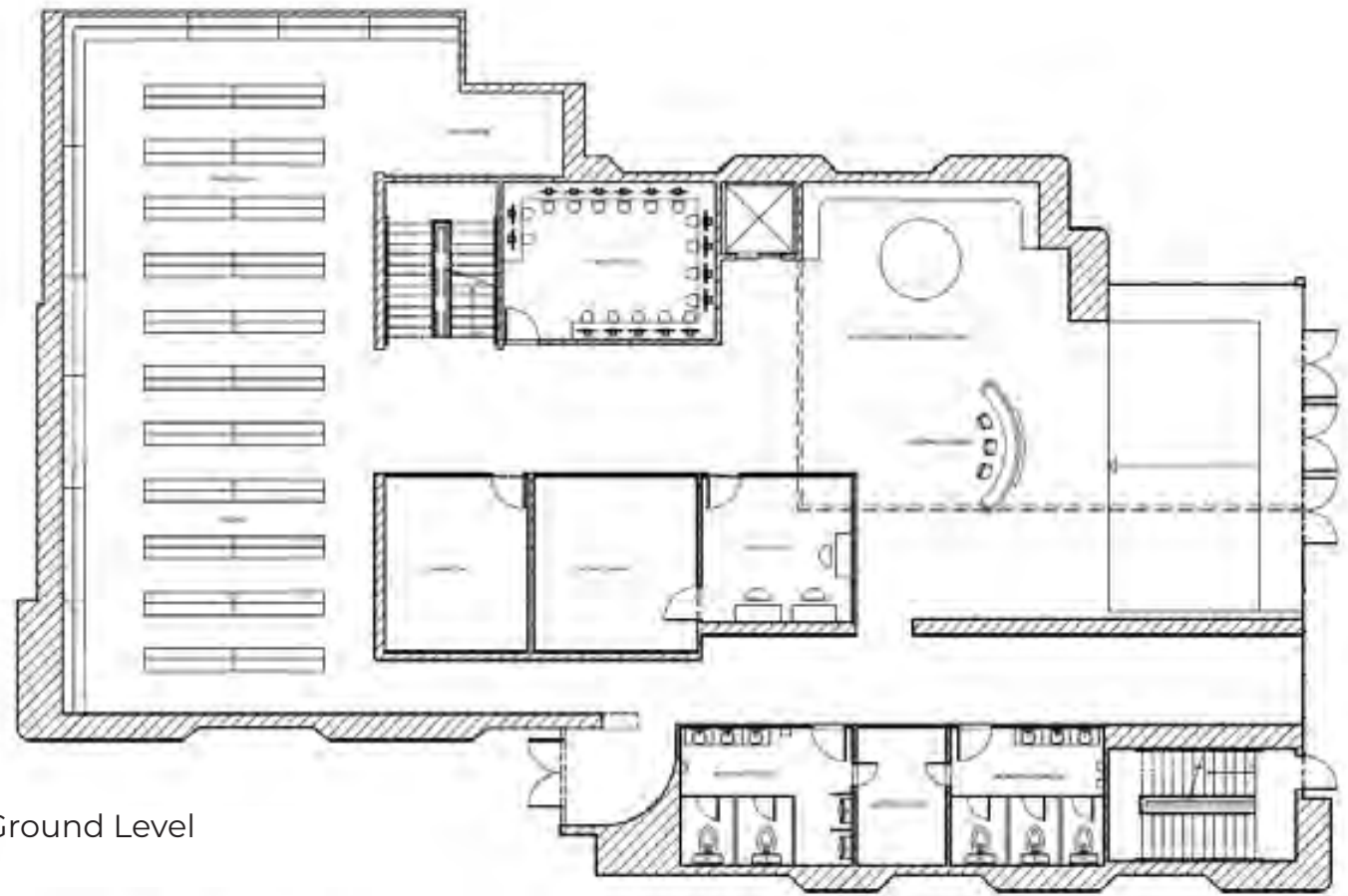
Design Iteration III



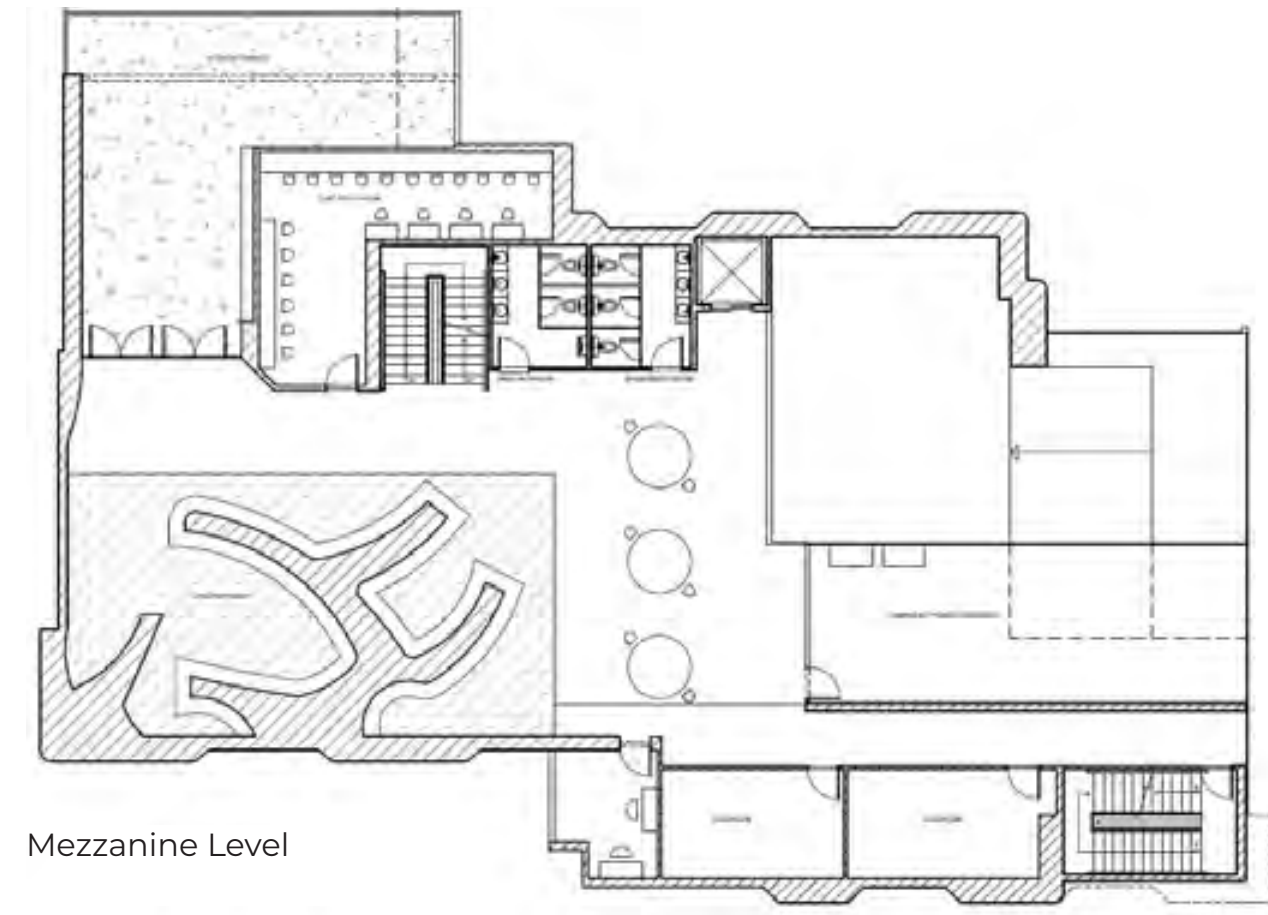
Final Design Iteration



Design Iteration IV



Ground Level



Mezzanine Level



North Elevation



West Elevation



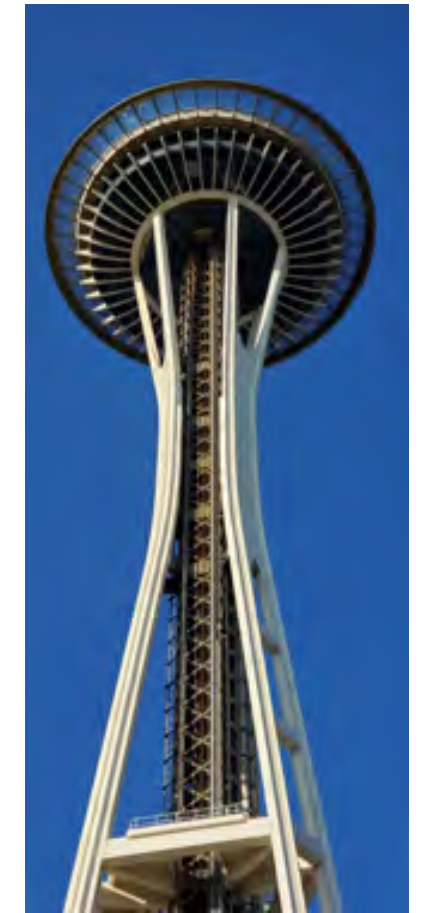
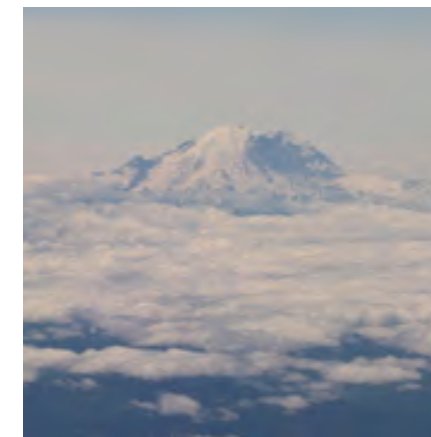
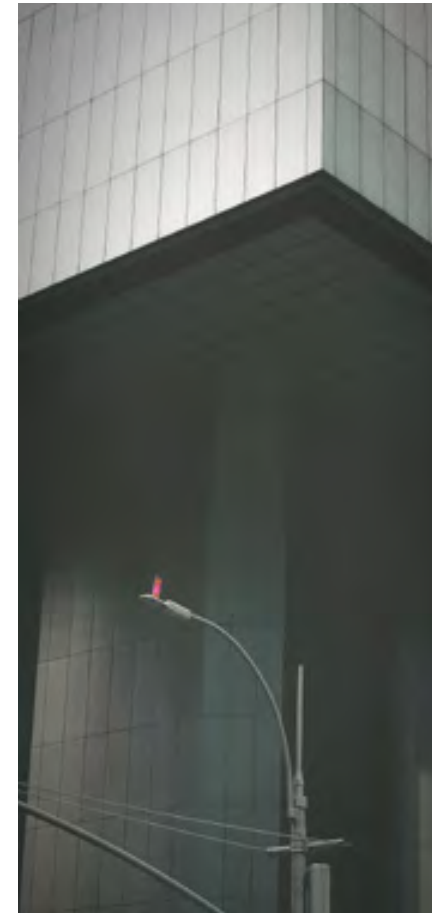
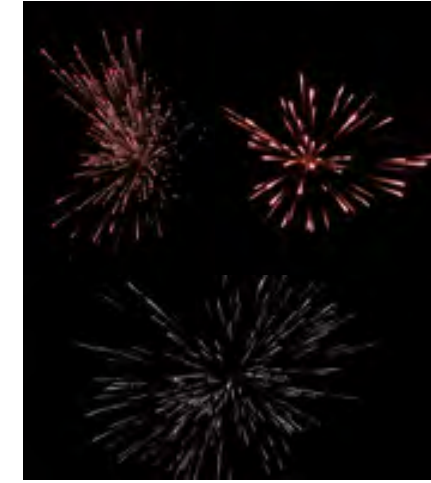
South Elevation



East Elevation

Additional Works

KC Archives
Selected photography





KEVIN CARRILLO

Since I was young, I have been fascinated by large buildings and their design. I was amazed by the work that architects completed around the world and I was captivated by their ability to solve problems at both large and small scales. Their works have inspired me to keep learning about architecture and throughout the years, I've grown to love the challenges of the design process. The challenges have pushed me out of my comfort zones in order to develop design solutions that will exceed all expectations.

My main interests include Urban Design and Landscape Architecture. My goal is to one day become a Registered Architect in New York. With my work, I want to create spaces where people can feel comfort, joy, and satisfaction. I want to pass down the knowledge that was passed to me to future generations in order to continue reinventing the built environment!

Additional Works & Contact

kevincarrillo1995@yahoo.com
kevinc.architecture@gmail.com



<https://archinect.com/Kevin-Carrillo>

<https://www.instagram.com/kc.architecture/>

<https://www.linkedin.com/in/kevin1015/>

EDUCATION BACKGROUND

2017-2020

Bachelor's degree in Architectural Technology
New York City College of Technology. NY
Summa Cum Laude

2014-2017

Associate's degree in Architectural Technology
Queensborough Community College. NY
Cum Laude

2010-2014

Advanced Regents Diploma with Merit
Richmond-Hil High School. NY
3.8 GPA

EMPLOYMENT HISTORY

2020-Present

Data Manager / Ops Specialist at **OnSiteIQ.**
At Onsite IQ we document buildings using 360° cameras at different stages of construction on a daily basis. We create interactive walkthroughs that can be seen from anywhere in the world. As the Data Transfer Manager, I remotely manage our Field-Operations Data collectors spread across the United States & Canada. My role is to ensure that the daily scheduled collections are completed and uploaded. I am also responsible for assisting our field operations team in order to deliver quality walkthroughs that clients can see the next day.

2019-2020

Data Processor / Ops Specialist at **OnSiteIQ.**
Applied understanding of Architectural floor plans and construction drawings in order to generate accurate 360° interactive buiding walkthroughs; Providing clients with site documentation reports that tracked building construction and site safety on a daily basis.

2014-2020

Lifeguard at **NYC Dept. of Parks & Rec.**
Provided aid and assisted distressed victims in life-threatening situations. Enforced facility rules and regulations in order to maintain a safe and comfortable environment for other staff, public bathers, and other patrons at pools & beaches.

2017-2019

Aquatics Manager at **Gateway Sports**
Responsible for the safe operation of multiple pools in NYC. Created weekly reports for review with other Site Managers and Aquatics Director.

2015-2017

Swim Instructor at **Gateway Sports**
Instructed children & adults basic water safety, proper skills and techniques for recreational & competitive swimming.

AWARDS & HONORS

2020 | New York City College of Technology
Certificate of Honor.
Summa Cum Laude Graduate.

2020 | New York City College of Technology
Faculty Honors Award
For Excellence in CAD & Design

2017 | New York City College of Technology
Dream U.S. National Scholarship
Scholarship Recipient

**2020
2019
2018 | New York City College of Technology**
Dean's List Recipient

**2017
2016
2015 | Queensborough Community College**
Dean's List Recipient

2015 | Queensborough Community College
Dream U.S. National Scholarship
Scholarship Recipient

2014 | Richmond-Hill High School
President's Education Award Program
Outstanding Academic Achievement

2014 | Richmond-Hill High School
New York State Regents Award
Outstanding Academic Achievement

2014 | Richmond-Hill High School
John Gladding Memorial Award
Outstanding Sportmanship

CERTIFICATIONS

2020 | OSHA Industry Outreach
OSHA 30 Hr. Construction Training

2020 | NYC Lifeguard
Basic Life Support
Cardiopulmonary resuscitation

ACHIEVEMENTS & INVOLVEMENT

2020 | Dream U.S. Scholarship
Peer mentor & Alumni Panelist

2020 | Cisco Networking Academy
Intro to Entrepreneurship Certification
Intro to Cyber Security Certification

2019 | Architecture League NY
Architecture League Mentor Program

**2020
2019
2018 | New York City College of Technology**
Architecture Club Member

2016 | Queensborough Community College
Peer Mentor

2015 | Queensborough Community College
Architecture Club Senator

2014 | Richmond-Hill High School
2013 | Boys Varsity Soccer Team Co-Captain

2014 | Richmond-Hill High School
2013 | Boys Varsity Swimming Team Captain

SOFTWARE SKILLS & EXPERIENCE

Proficiencies

Acrobat - Illustrator - Indesign - Photoshop
AutoCAD - Revit - Mastercam
Climate Consultant - DIVA - RhinoCFD
3DS Max - Rhino - Vray - Lumion
3D Printing - Laser Cutting - Hand Modeling
MS Office - NCTech Data Extraction
English - Spanish

Working Knowledge

Grasshopper - Lumion Livesync
Sketchup - Solidworks - Sublime Text
Italian

INTERESTS

I enjoy spending my personal time with my friends and my family.

I enjoy running and playing soccer as well as swimming competitively. These sports help me to clear out of mind, but often provide a physical challenge that always pushes me to my limits.

Swimming's been my passion since I was in high school. With all the experience I've learned I've been privileged to work at the largest pools in the city as well as Rockaway Beach!

I'm a photography enthusiast; I like to capture images of the different architecture styles around the city. I love to learn about cameras and lenses. Their design and mechanism is something that I've always admired.

I consider myself a tech-savy person. I really enjoy learning about the latest components and their performace. One of my favorite things to do in my spare time is to select parts individually in order to build a whole system. It can be a fun and challenging pastime.

I love completing large jigsaw puzzles. The more pieces, the better; but overall I enjoy the challenge of putting all the pieces together. Although at times it can get tedious, It's taught me that patience and persistence can be rewarding!

| THANK YOU

