

Brandon Bosaz

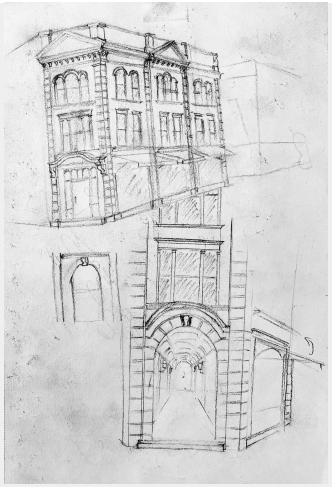
Architecture Portfolio 2026

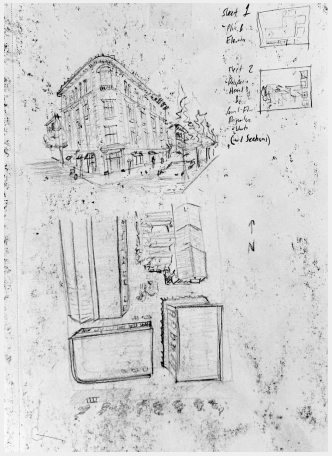
Brandon Bosaz

University of Maryland ‘28 - 110 Credits

B.A. Architecture + B.A. Real Estate and the Built Environment

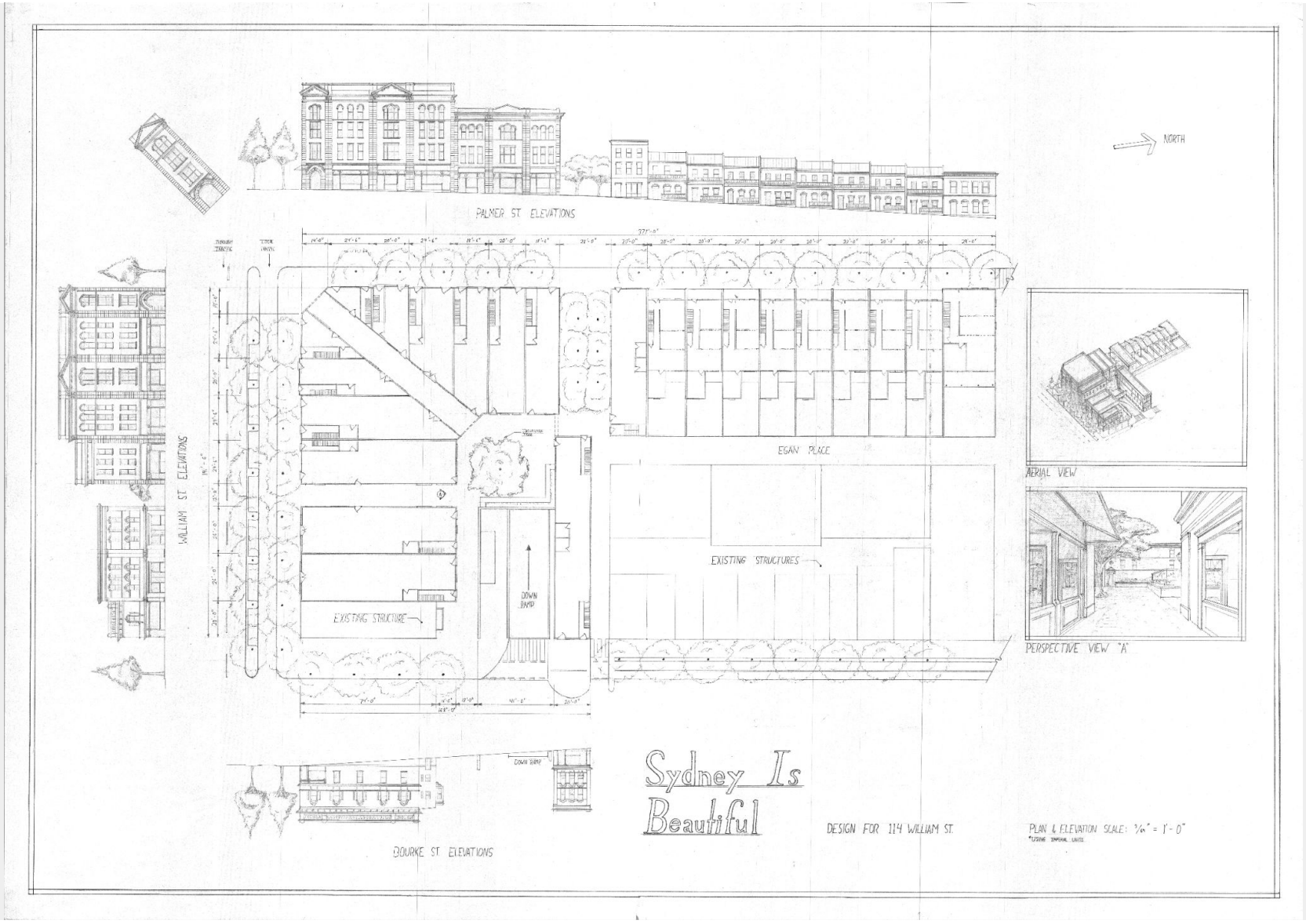
Project Management Minor





[Top] Process Drawings

[Right] Final Submission

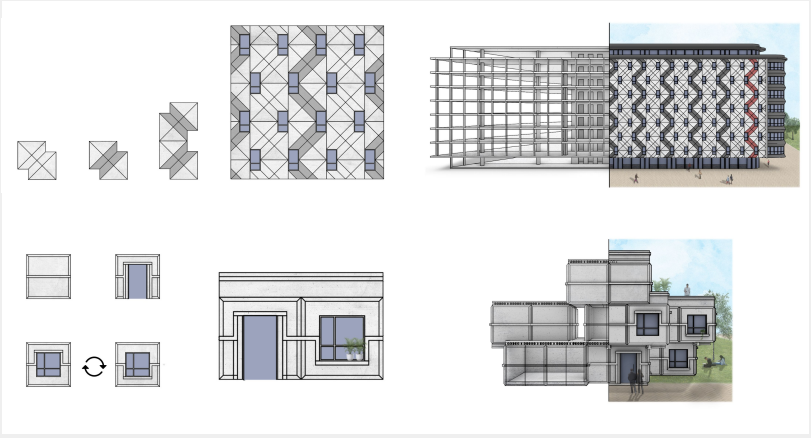


114 William Street

Sydney is Beautiful Architecture and Urbanism Competition - Street Level Australia
Winter 2022
Medium: HB Pencil

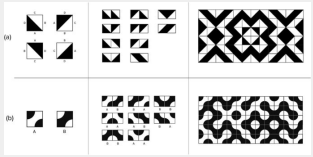
Created a mixed-use urban design for vacant block in Sydney that responds contextually to the existing urban fabric and reinforces the public realm. Awarded 2nd-Place Youth Prize by Street Level Australia.

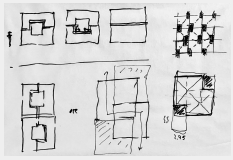




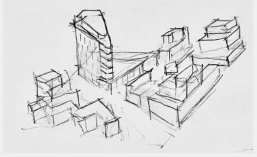


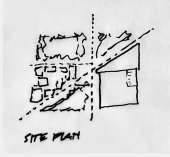
[Clockwise from Top Left]
Perspective, Isometric Aerial, Process Drawings, Truchet Pattern Inspiration, Structure & Modular Paneling

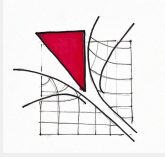








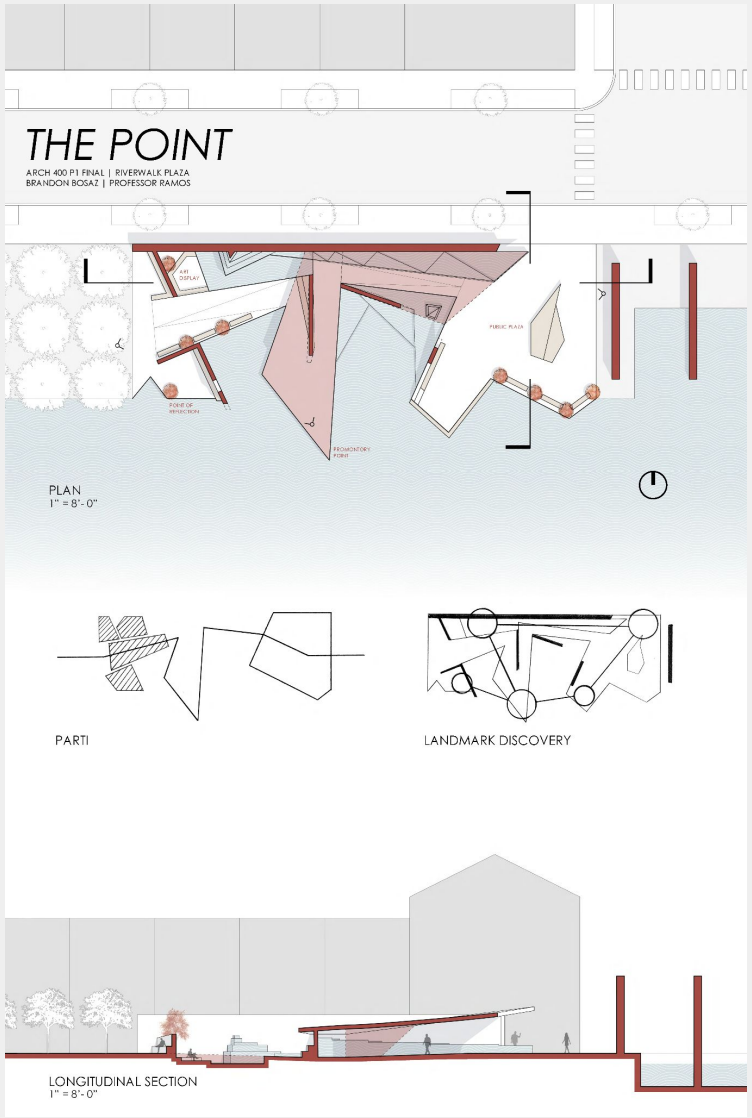


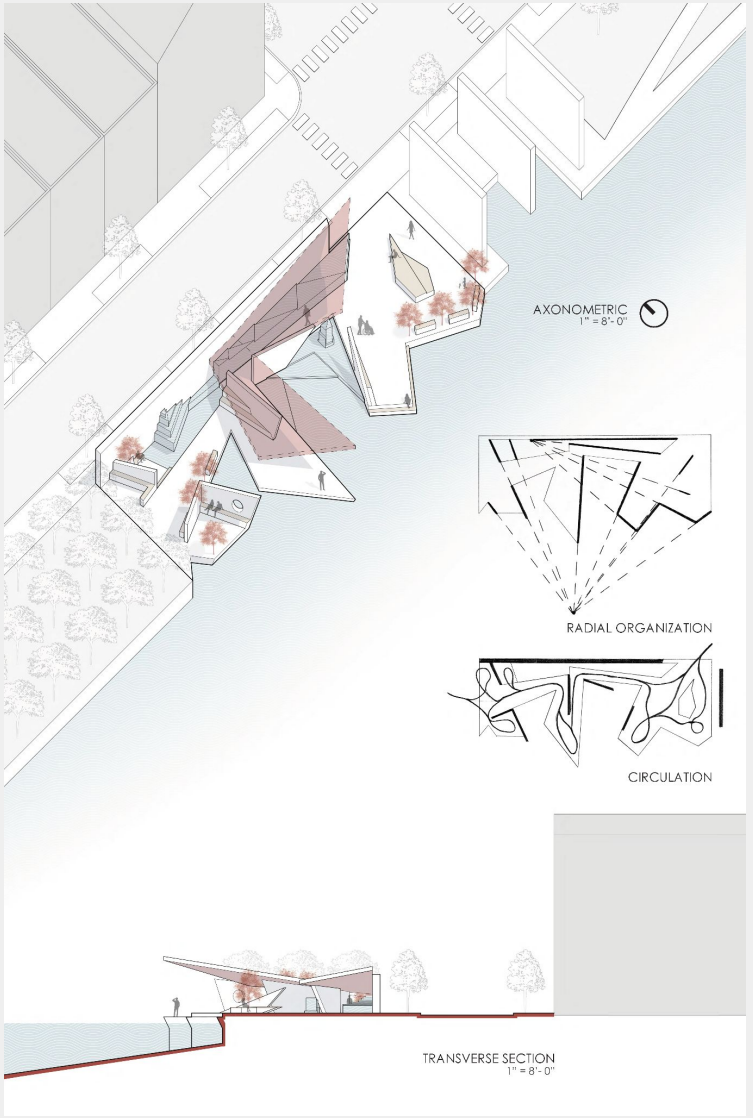


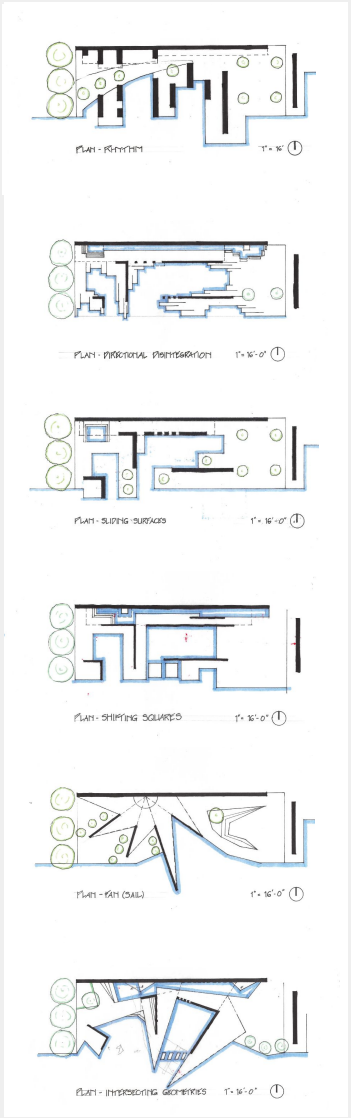
Innovation Innovillage

PCI Design Precast National Competition
Fall 2025
Medium: Hand Sketching, Rhinoceros 8, Adobe Photoshop & Illustrator

Combined human-scaled design with truchet pattern-inspired modular precast panel technology in scheme for a startup incubator community on the University of Maryland STEM Campus. Designed in a team of two, winning First Place Prize at the Precast Institute's (PCI) 2026 National Conference (out of 39 entrees).







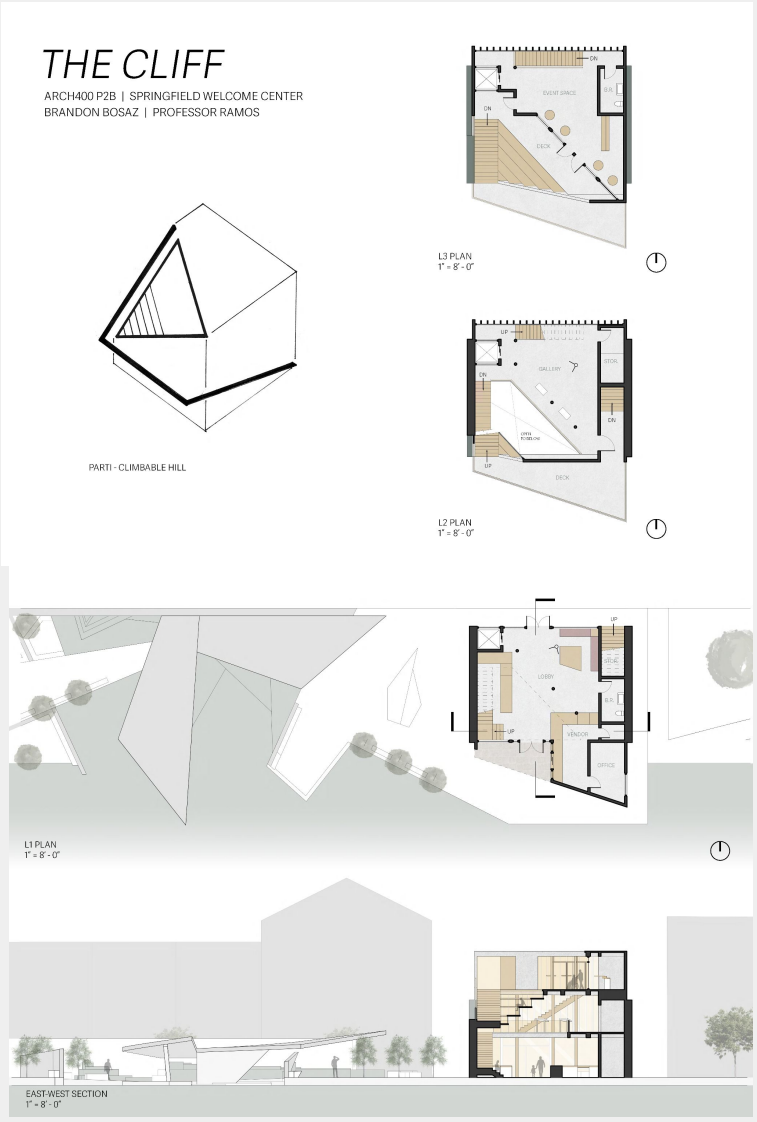
The Point

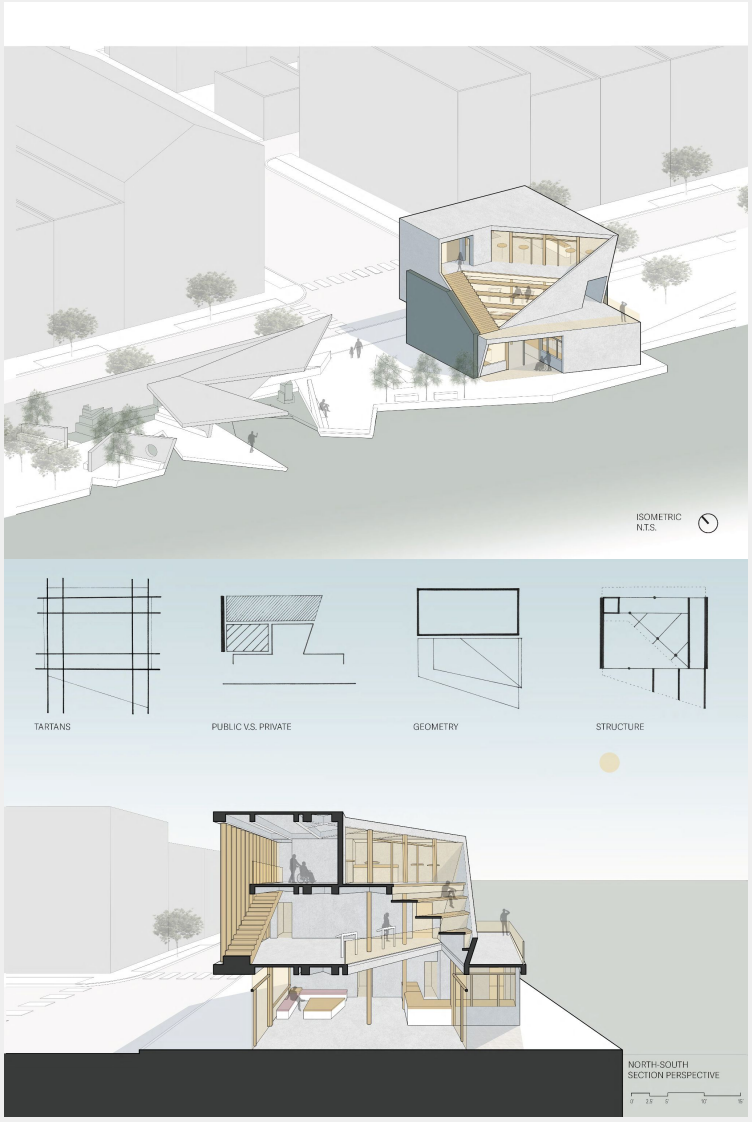
ARCH 400 Studio I

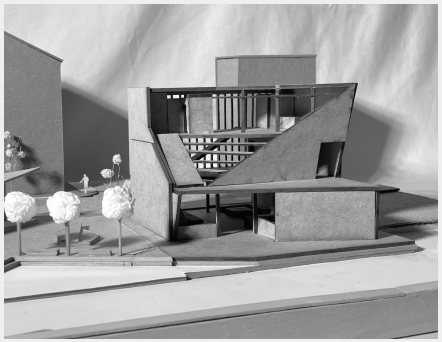
Spring 2026

Medium: Hand Sketching, Rhinoceros 8, Adobe Photoshop

Design for context-sensitive urban waterfront. An exercise in landscape architecture and outdoor space-making. Utilized walls, walkways, and roofs to frame views and create a memorable promenade of distinct spaces within a small site.









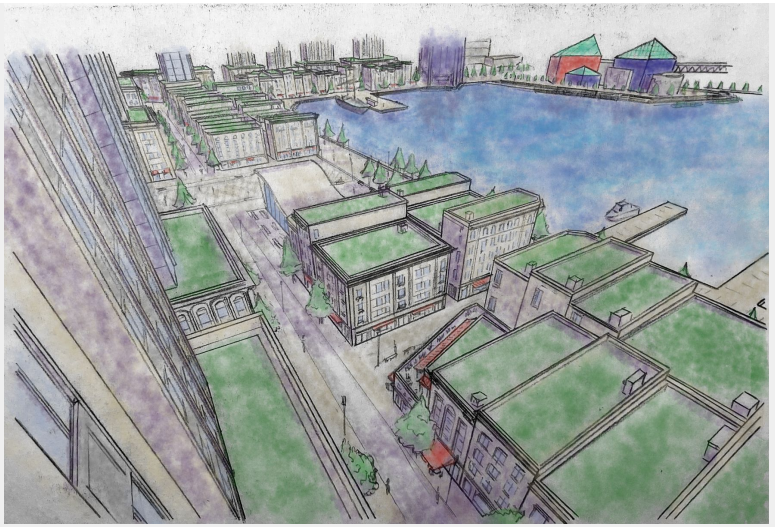


The Cliff

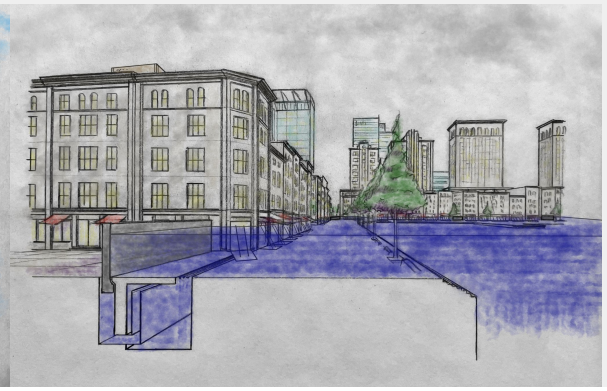
ARCH 400 Studio II
Spring 2026
Medium: Hand Sketching, Rhinoceros 8, Adobe Photoshop, Chipboard (Physical Model)

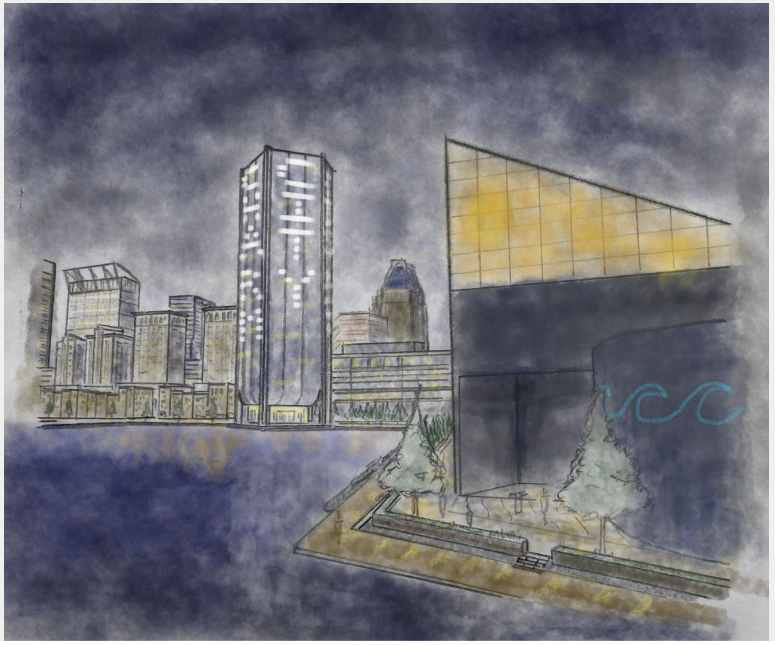
Designed as a city welcome center adjacent to *The Point*, *The Cliff* doubles as a “climbable hill” with its ample exterior circulation. As an exercise in “designing in section,” *The Cliff* accommodates its program on a small site while incorporating light-filled atriums, ample vertical circulation, and a form that reconciles the dynamic waterfront with a legible street-facing facade.









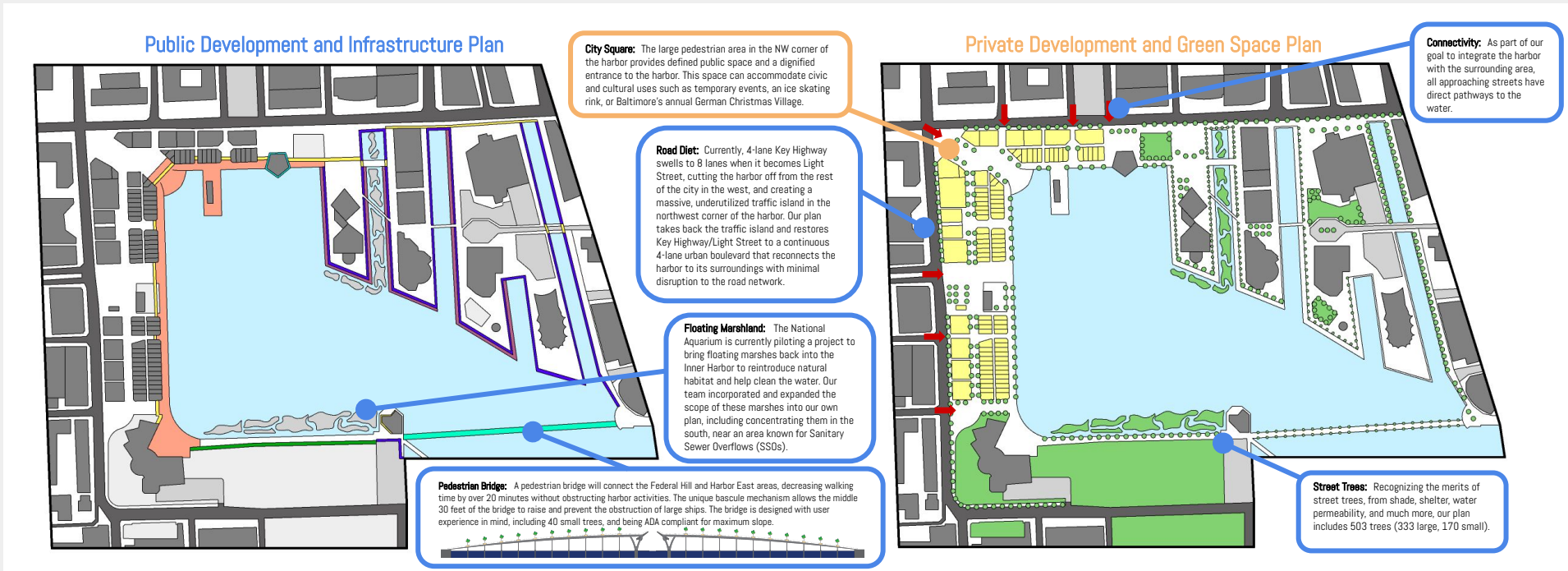


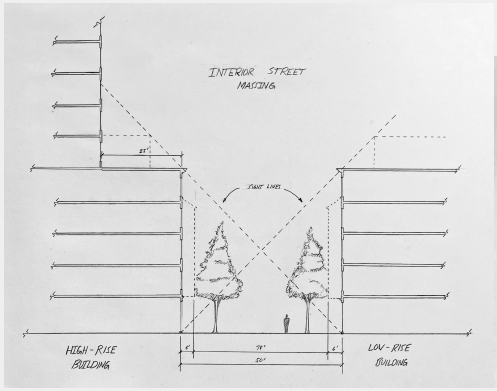
Inner Harbor 2100 Master Plan

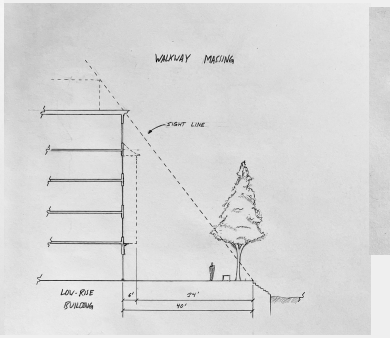
CIRT National Design and Construction Competition
Winter 2023-Spring 2024
Medium: Sketchup, Pencil Linework, Digital Watercolor

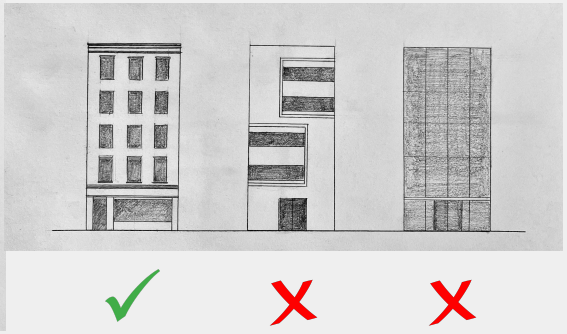
Team lead in an in-depth hypothetical master plan and construction project for the Baltimore Inner Harbor aimed at both protecting from sea level rise and revitalizing the area.

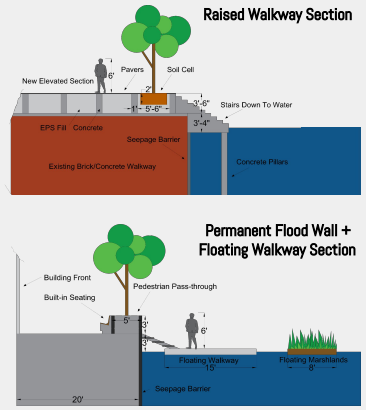
Responsible for overall plan design, public realm specifications, and renderings.











[Top] Site Plan

[Bottom Left] Massing Regulations

[Bottom Center] Form-Based Code Facade Specification Overview

[Bottom Right] Raised Walkway Sections
(Not responsible for walkway sections, added for clarity, see board for more info)







[Top Left] Close-up Aerial View

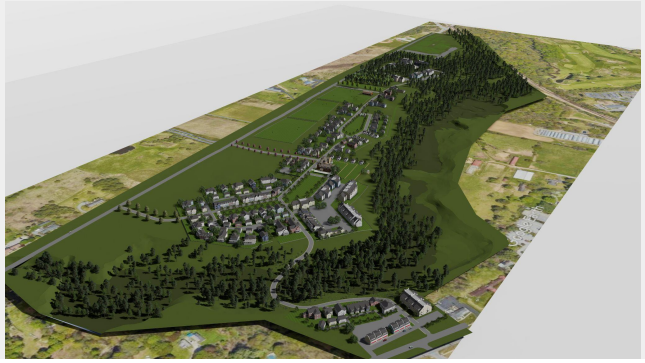
[Top Right] Partial Aerial View

[Center Right] Street View

[Bottom Left] Initial Plan Provided by SH&A

[Bottom Right] Finished Rendered Aerial





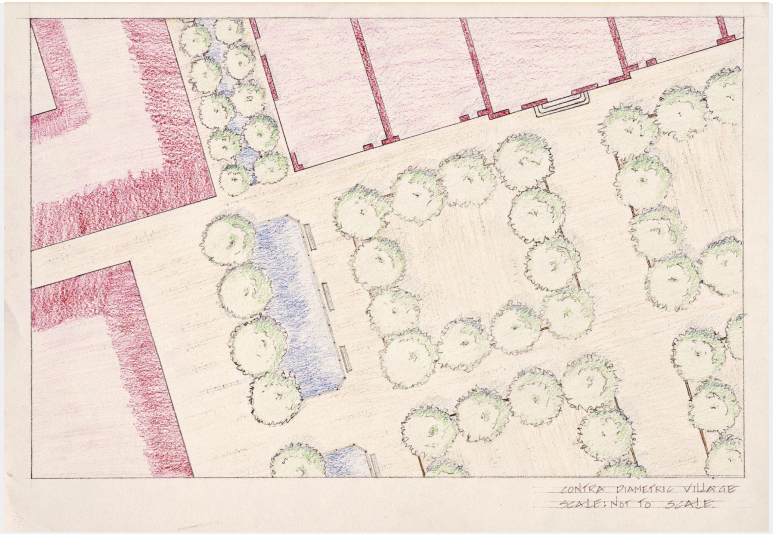
Denton Road
Saratoga Springs, NY

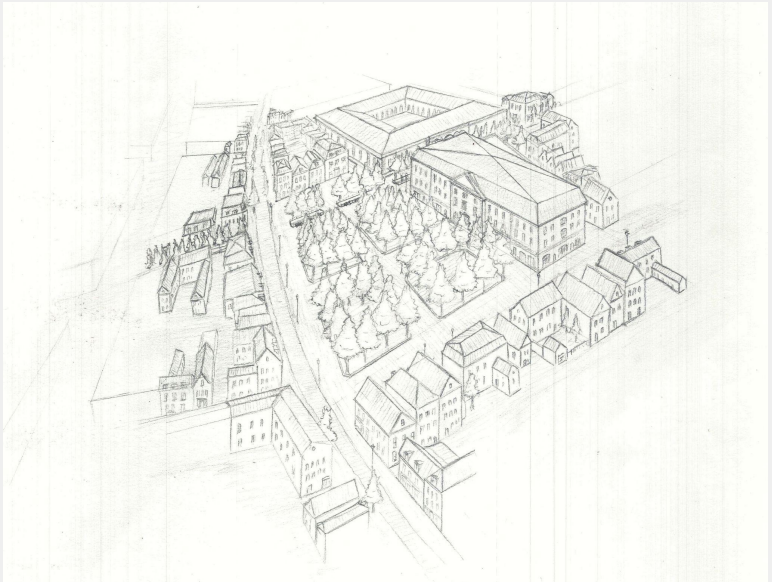
Seth Harry & Associates Internship
Summer 2023
Medium: Sketchup, Lumion

Urban design renderings based off current site plans for project at Seth Harry & Associates featuring a clustered rural development based on New Urbanist principles.

Responsible for rendering and the residential and commercial building model designs.





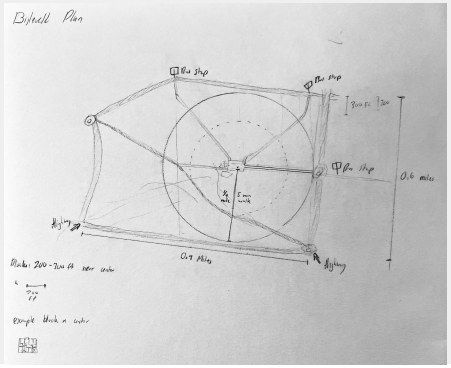


[Top Left] Final Site Plan (Team Design)

[Top Right] Plan of Portion of Main Square

[Bottom Right] Perspective Aerial of Main Square

[Bottom Left] Initial Sketch Plan of Site with 5-minute Walkshed

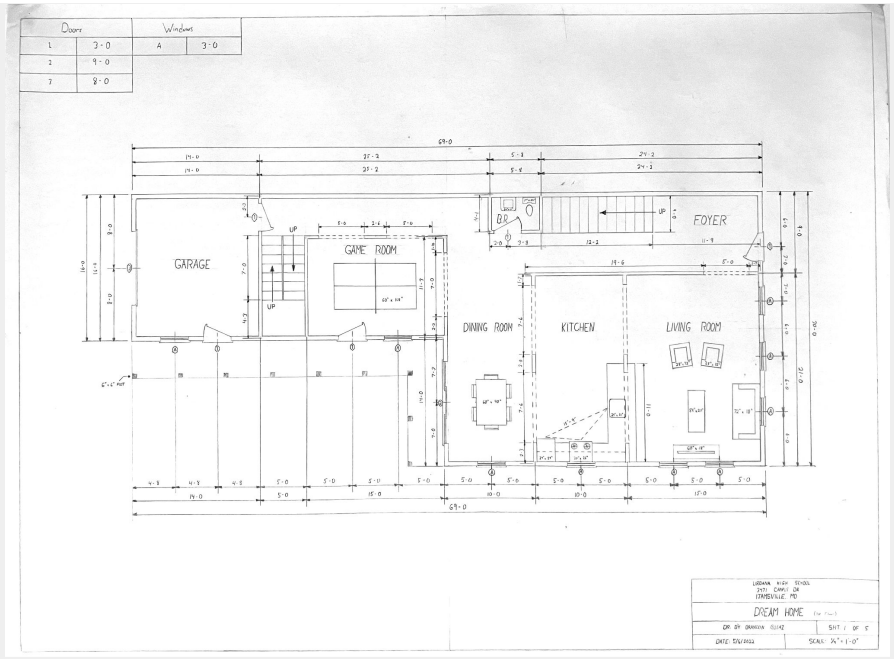


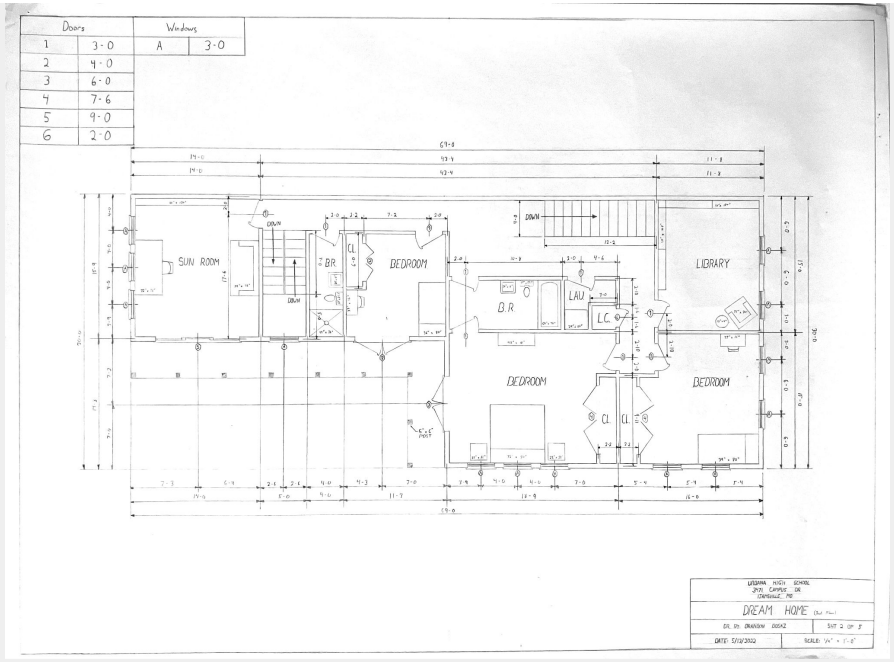
Contra Diametric Village
Utrecht, NL

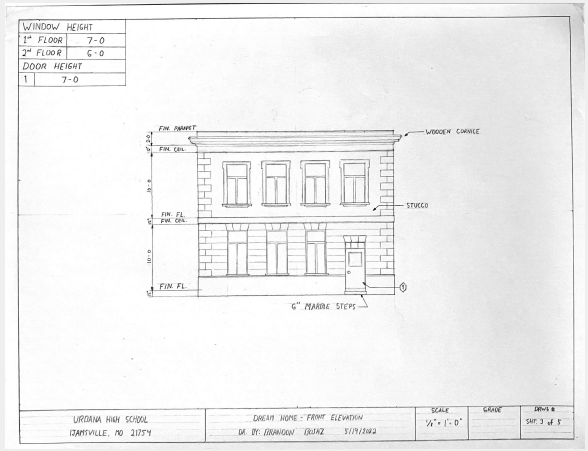
INTBAU Netherlands Summer School in Traditional Architecture and Urbanism
Summer 2022
Medium: 2B Pencil, Colored Pencil

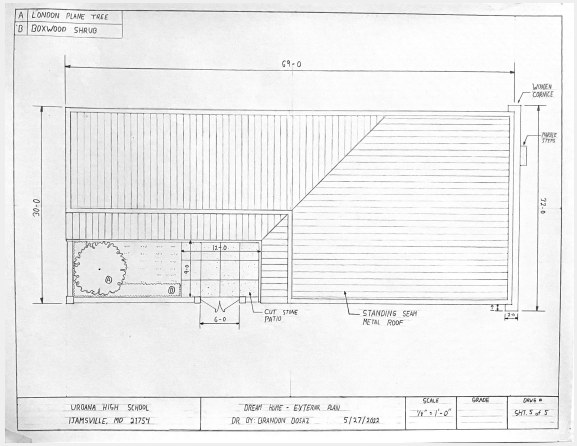
Plan for a greenfield development near Utrecht, NL with team of 4. Focused on softening the edges of the development to preserve the rural character of the area while intensifying the urbanism near the center.

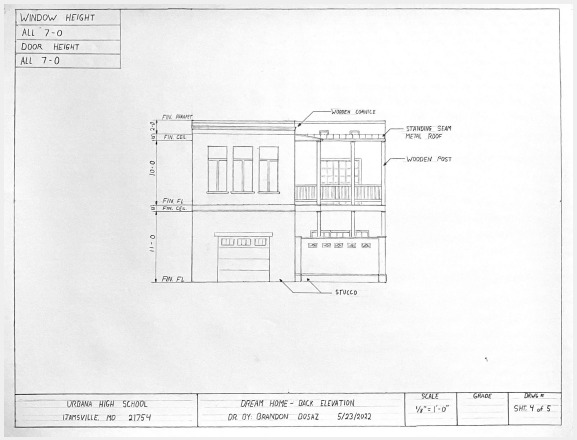
Responsible for drawing plan for square, aerial rendering, and helping formulate the team site plan.







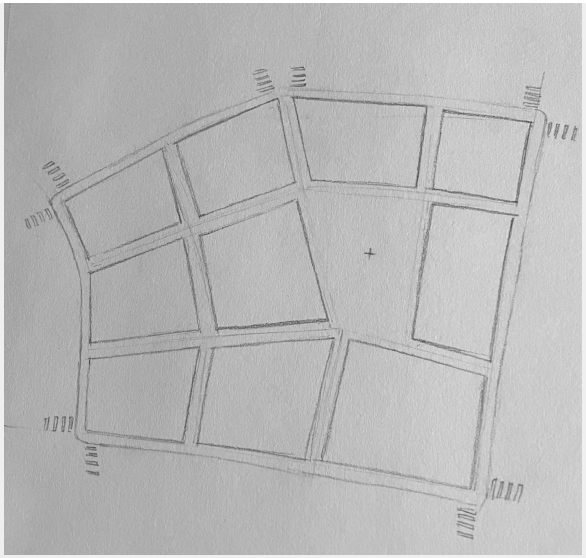
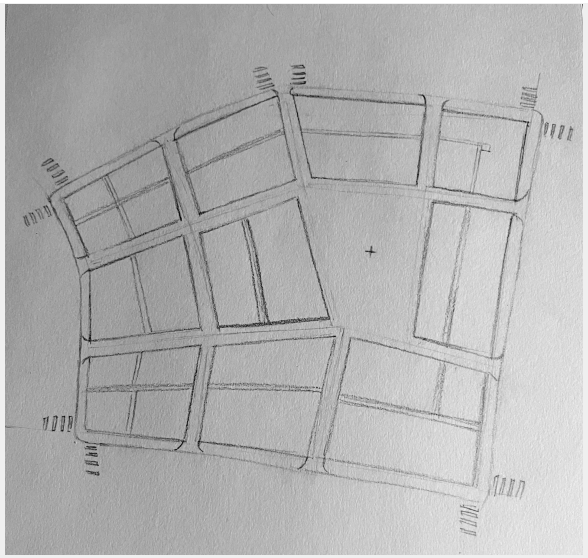
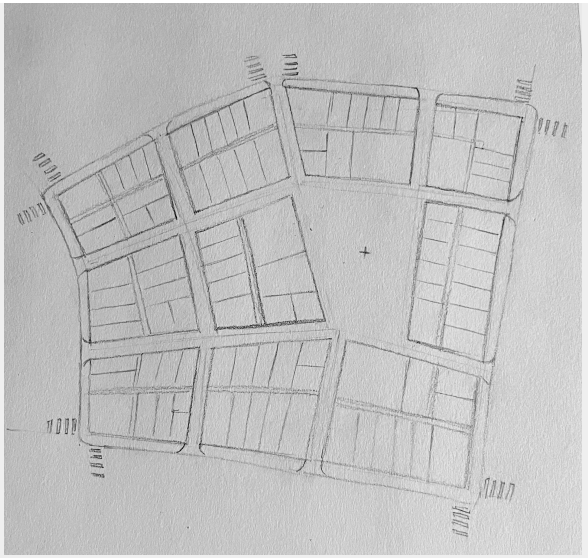
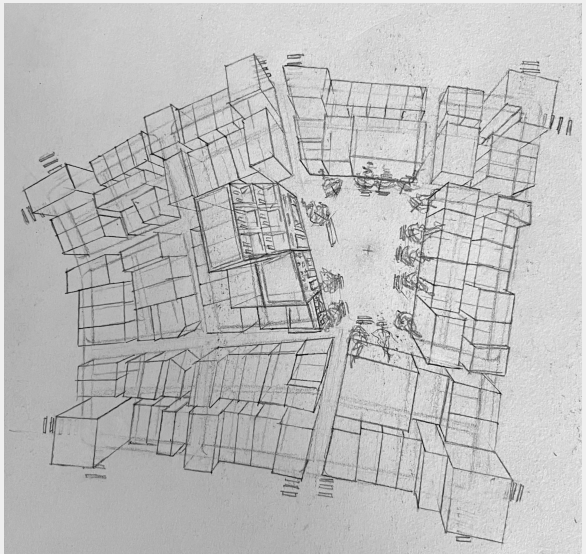
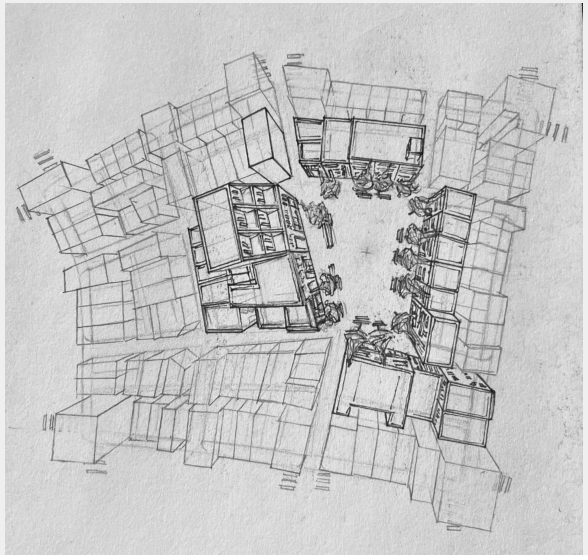
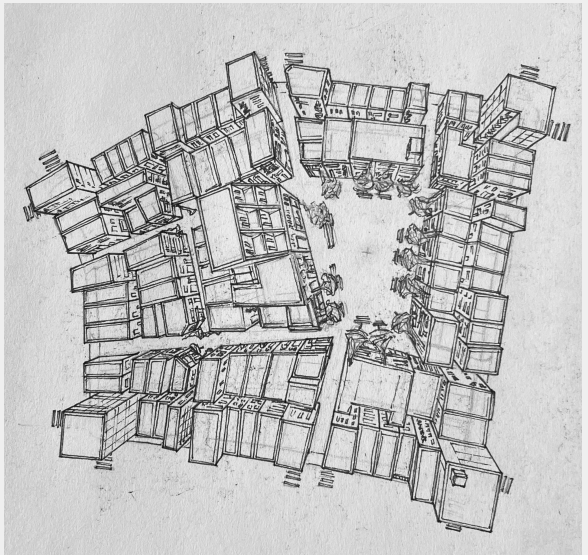




Dream Home

Architecture 2 Class
Spring 2022
Medium: HB Pencil

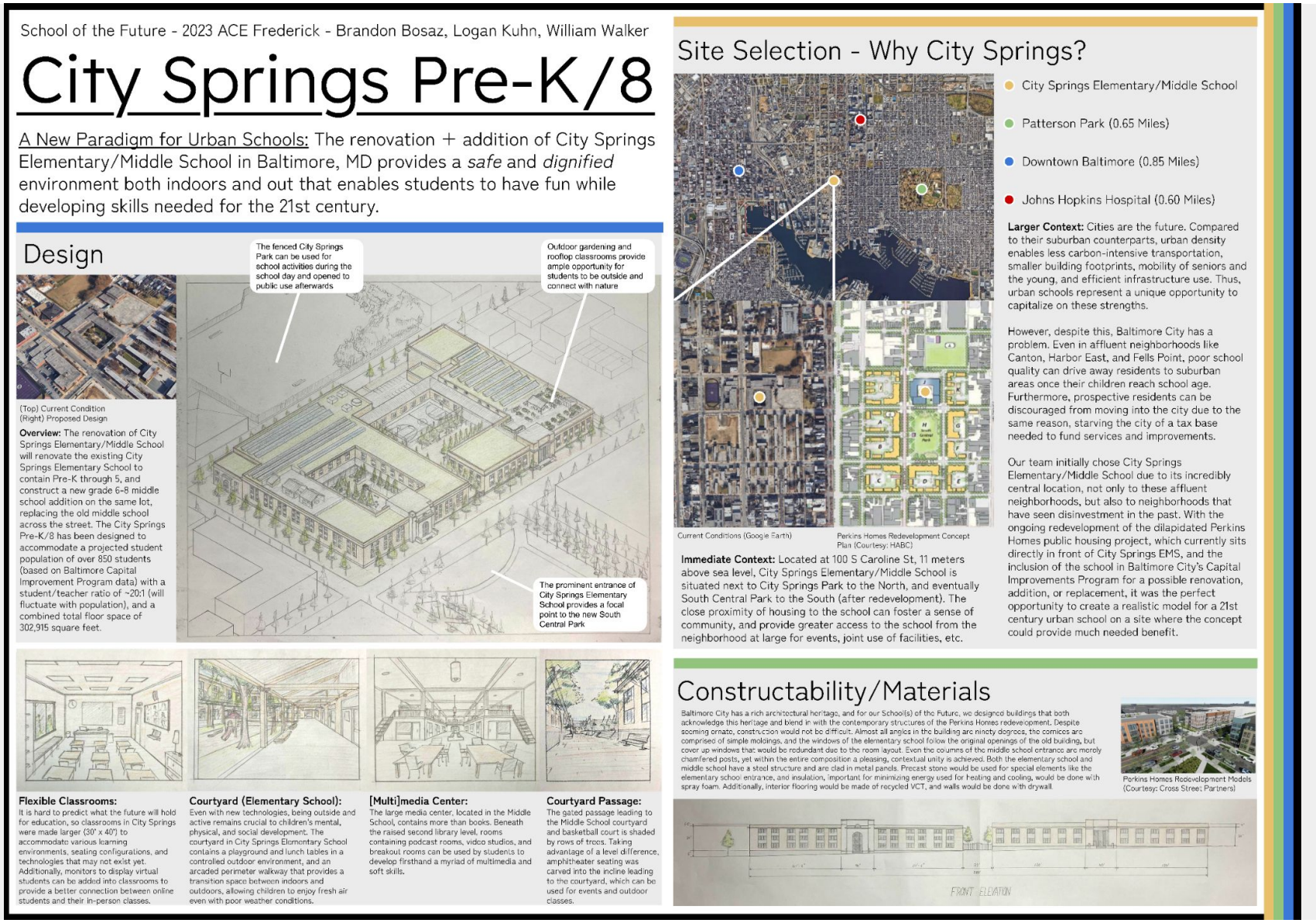
Design for “Dream Home” under the parameters of 1400-1600 sq. ft. per floor. Based on typical local North Atlantic rowhouse typology.

Hierarchy of Streets

Personal Project
Summer 2023
Medium: HB Pencil, Fineliner

Based on the Barcelona superblock and Tokyo's fine-grained neighborhoods, a hypothetical human-scaled neighborhood development that functions as a unit of a larger city.



City Springs Pre-K/8

CIRT National Design and Construction Competition

Winter 2022-Spring 2023

Medium: HB Pencil, Colored Pencil

Served as team lead in designing a conceptual net-zero renovation and addition to a Baltimore City School.

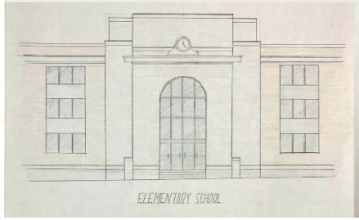
Responsible for board designs, writings, and hand renderings.

Design Process

1. **Project Selection**
   a. Our team reached a quick consensus regarding project selections. Aware of the potential school design has in shaping positive experiences in the formative years of childhood, the School of the Future prompt provided a challenging yet exciting design prospect for us.
2. **Gathering Data**
   a. Meeting once every two weeks initially, and eventually more as the deadline approached, our team created strategic agendas that outlined what information we needed and what to accomplish so we kept moving forward efficiently and knew what to work on between meetings.
   b. Acquiring valuable information such as the school catchment area, which is too small to need busing, the projected school population, and the overall building size was integral to creating a solid foundation to generate our design.
3. **Brainstorming Ideas**
   a. Our team took time in initial meetings to research and discuss visions and ideas for a school of the future. Big ideas like incorporating more outdoor learning spaces and modernizing our library, to mundane aspects like wider hallways were all discussed during together. Discussions also centered around big decisions like the degree to renovate or demolish the existing buildings.
   b. Brainstorming how the school addressed its surroundings and the spaces it created also began around this time. Sketches were made on the margins of papers and sticky notes, trying to resolve design dilemmas, which were later formalized in drawings.
4. **Generating Feasible Design**
   a. Using resources like the IAC MD Public School Sufficiency Standards, Educational Specifications from similar schools, and LEED requirements, our team began drafting our initial designs on paper.
   b. CAD Floor Plans and measured drawings and renderings drafted by hand were then made to further refine our final designs.
   c. Cost Estimates were calculated based on the cost breakdowns of similar projects in Baltimore, with information found through Maryland Stadium Authorities 21st Century School Buildings Program Annual Reports.

Evolution of our Design:







Sustainability/Net Zero

Our 1,114 solar panels produce roughly 5,772,765 kilowatts per year in ideal conditions. Given our 302,915 square foot school requires 2,650,000 kilowatts per year, that leaves 3,122,765 kilowatts of energy surplus. Additionally, we achieved a LEED Gold Certification through our:

- **Green Roof:**

The green roof reduces rain runoff. Rain runoff drags contaminated water and other pollutants into the Baltimore harbor and is detrimental to wildlife. The roof also reduces carbon emissions by replacing resource taxing water storage solutions with those that provide environmental benefits such as being better habitats, lasting longer, and absorbing less heat compared to standard roofs.

- **Water Retention:**

Science classes will gather water to prevent storm runoff. Water that is not gathered by the green roof will be stored and used in the science classes wherever applicable, mitigating stormwater erosion and runoff pollution.

- **Building Reuse:**

It was discussed whether to completely rebuild or relocate the City Springs campus, but ultimately we decided to maintain the original shell as much as possible. This decision was in part made with the hopes of saving resources that would be required for total reconstruction. Saving resources, while also saving money, reduces the amount of greenhouse gasses used in producing construction materials. It is said that the greenest buildings are the ones that are already built, and reusing the City Springs shell to create the "School of the Future" reflects the increasing need to take advantage the embodied energy already present in existing structures.

Additional LEED Points Include:

Sensitive land protection - High priority site - Surrounding density and diverse uses - Access to quality transit - Bicycle facilities - Reduced parking footprint - Green vehicles - Site development - Protect or restore habitat - Open space - Rainwater management - Heat island reduction - Light pollution reduction - Water efficient landscaping - Innovative wastewater technologies - Outdoor water use reduction - Indoor water use reduction - Cooling tower water - Water metering - Fundamental commissioning - Minimum energy performance - Enhanced commissioning - Advanced energy metering - Renewable energy production - Green power and carbon offsets - Enhanced refrigerant management - Measurement & verification - Materials management - Building life-cycle impact reduction - Environmental product declarations - Sourcing of raw materials - Material ingredients - Construction waste management - Extended boundary - Reused building components - Reused interior finishes - Recycled content - Regional materials - Rapidly renewable materials - Certified wood - Interior lighting - Daylight - Quality views - Thermal comfort - Interior lighting - Daylight - Quality views - Thermal comfort

Budget

Elementary School Area:
200,134 square feet

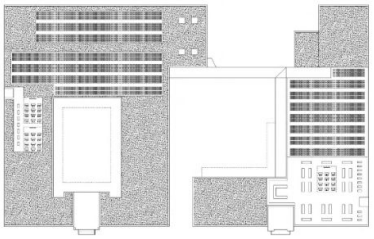
Middle School Area:
102,781 square feet

Total Area:
302,915 square feet

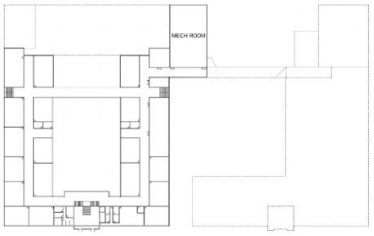
Item:	Elementary School Renovation:	Middle School Construction:
Demolition & Abatement	$8,794,974.25	$3,857,960.83
Substructure (Foundation/Slab)	$0.00	$10,923,441.21
Structure (Columns, Beams)	$0.00	$8,608,002.69
Fenestration (Walls and Windows)	$11,267,724.69	$5,579,230.35
Roofing	$5,679,853.06	$1,736,160.13
Plumbing/Mechanical (HVAC)	$16,489,151.30	$5,155,629.82
Electrical Systems	$6,003,629.14	$1,271,081.34
Play Structure	$1,895,620.28	$350,874.17
Solar Panels	$3,439,449.29	$195,324.82
LEED	$4,199,138.64	$30,050.00
Finishings	$10,957,287.37	$5,365,726.73
Total Cost (Separate)	$68,445,828.00	$47,073,668.00
Cost/sqft	$342.00	$458.00
Total Project Cost		$115,519,526.00
Total Project Cost/Sqft		$381.36

Problems Faced/Lessons Learned

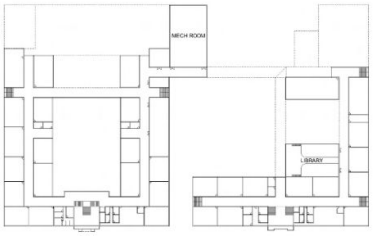
- **Perseverance:** Our team initially had a rocky start, we did not decide to do the national project until mid-January, and halfway through our team was reduced to three people after one member left. However, with each setback we kept on working, sometimes readjusting or reallocating team roles to adapt to changing circumstances.
- **Communication:** Even with structured meetings, our design process was not completely linear. As we learned new information and had new ideas, good communication was critical to successfully coordinate revisions and carry on at a good pace. Additionally, our initial once-every-two-week meetings left lots of time in between to work and research. Thus, effective online communication was crucial to keep our team on task and productive.
- **Acquiring Information:** Our team was surprised at the vast amounts of information available on current schools and school design. However, even with this, there was still some key data that proved too difficult to find, such as data on the existing floor layout and structure. Thus, to stay on-track, we were forced to make educated assumptions, which are listed below:
  - **Assumptions:**
    - Assume the existing elementary school has a steel structure
    - Assume the roof can handle the weight of a green roof



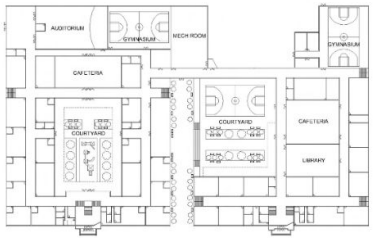
AutoCAD Roof Plan



AutoCAD Level 3 Plan



AutoCAD Level 2 Plan



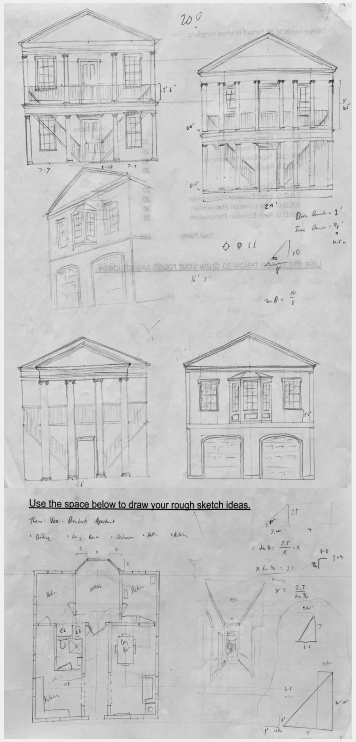
AutoCAD Level 1 Plan

Construction Schedule

Construction Stage	Building Area	Duration (Months)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
		Month	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Abatement	Renovation + Addition																									
Demolition	Renovation + Addition																									
Footing/Foundation	Addition Only																									
Superstructure	Addition Only																									
Envelope	Renovation + Addition																									
MEP - Rough-in	Renovation + Addition																									
Finishes	Renovation + Addition																									
Commissioning	Renovation + Addition																									
Site Work	Renovation + Addition																									

Construction begins in July 2024 and takes two years until construction is complete, ending right before the beginning of the 2026 school year. Since Baltimore City has a system of "swing schools," during construction, students of City Springs can be bussed to these swing schools until the new buildings are completed.

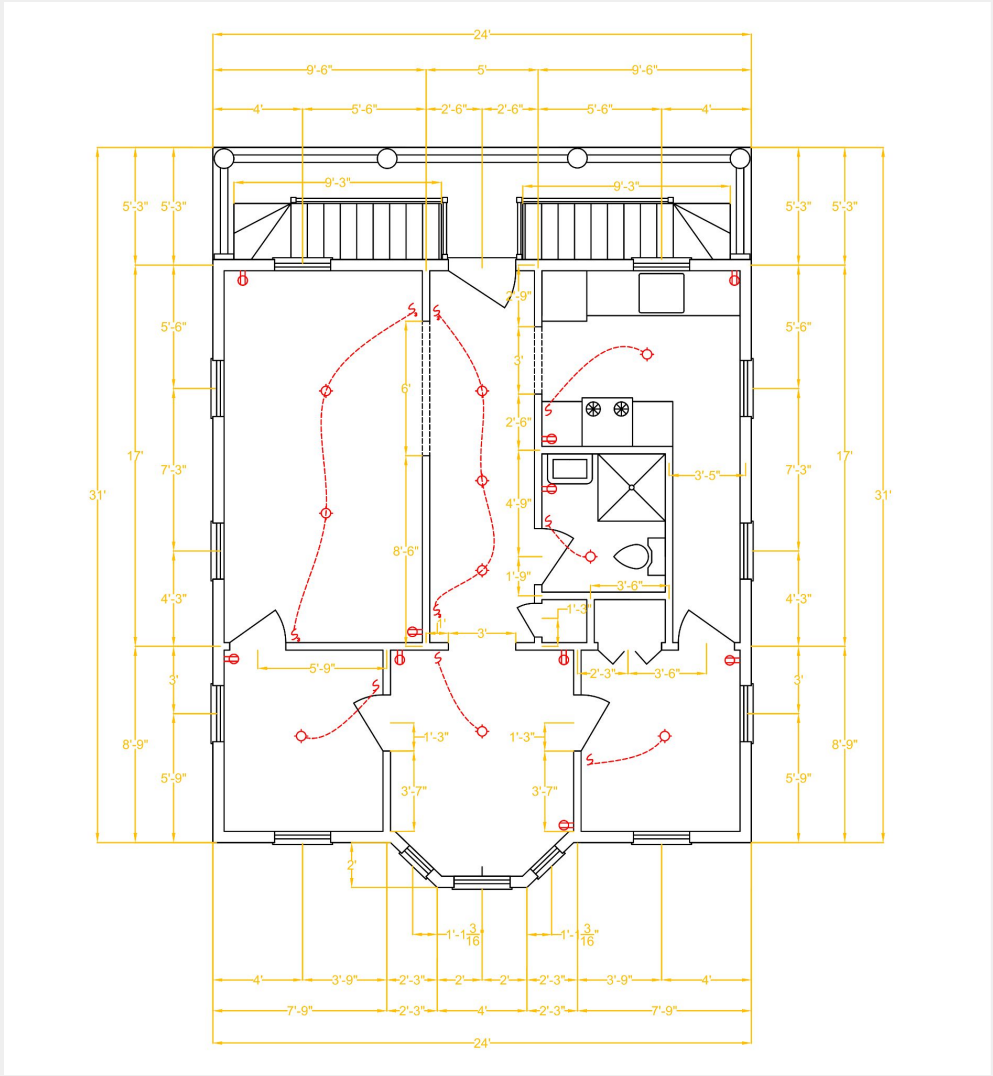
* Not responsible for AutoCAD plans or construction schedule



[Left] Brainstorming Sketches

[Center] Floor & Electrical Plan

[Right] Front & Rear Elevations

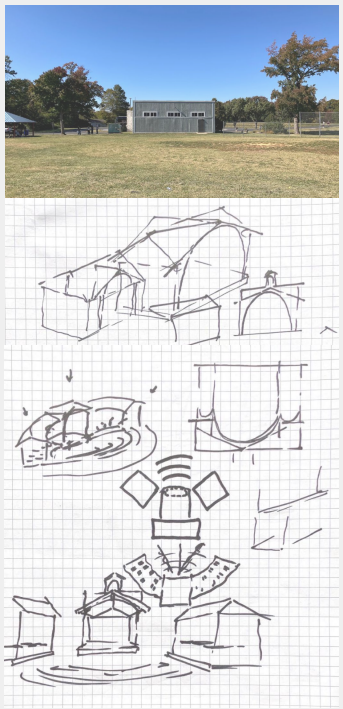


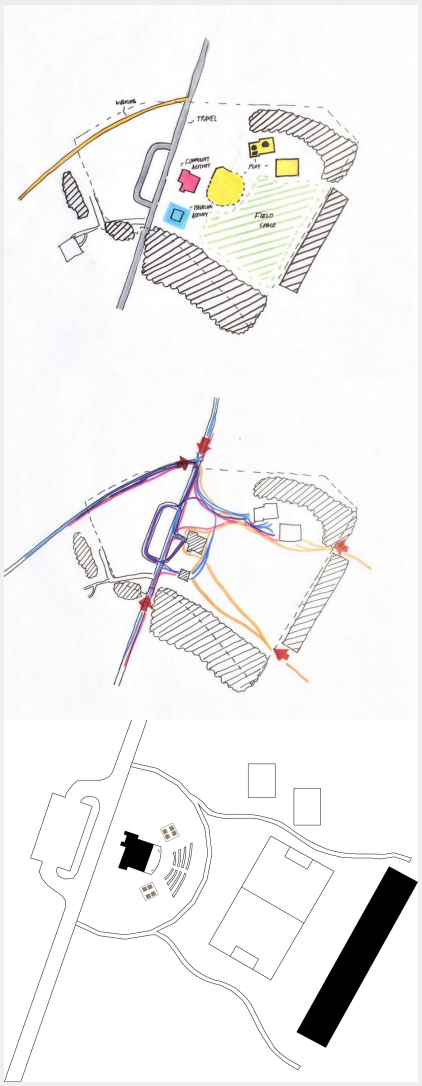


FROG (Finished Room Over Garage)

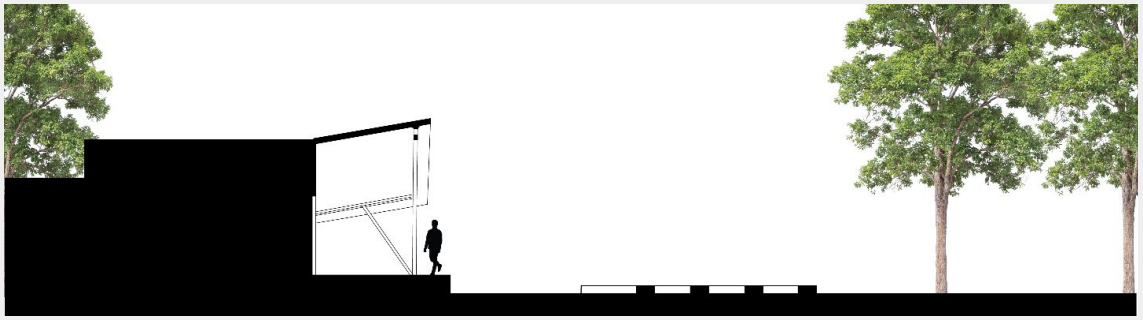
Architecture 2 Class
Fall 2022
Medium: HB Pencil, AutoCAD

Adding density with dignity. Design for a finished room over garage in the theme “Vice President’s Second Residence,” complete with a “hexagon office.” A practice exercise in correctly superimposing the classical orders (using *The American Vignola* as reference) using digital software.









[Top Left] Existing Conditions

[Bottom Left] Initial Sketches

[Top Center] Activity Zones and Circulation

[Bottom Center] Final Site Plan

[Top Right] Perspective Rendering

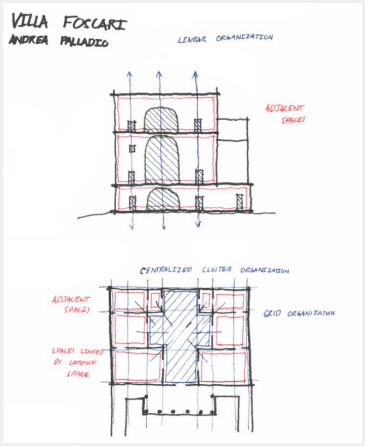
[Bottom Right] Pavilion Section

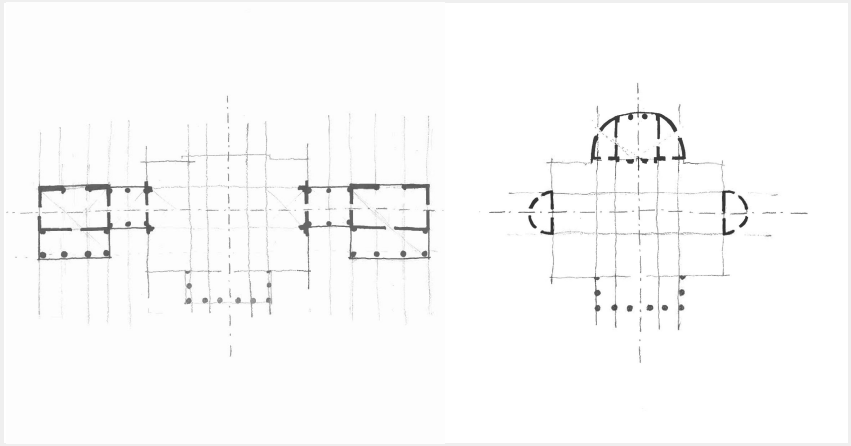
Edmonston Park Pavilion

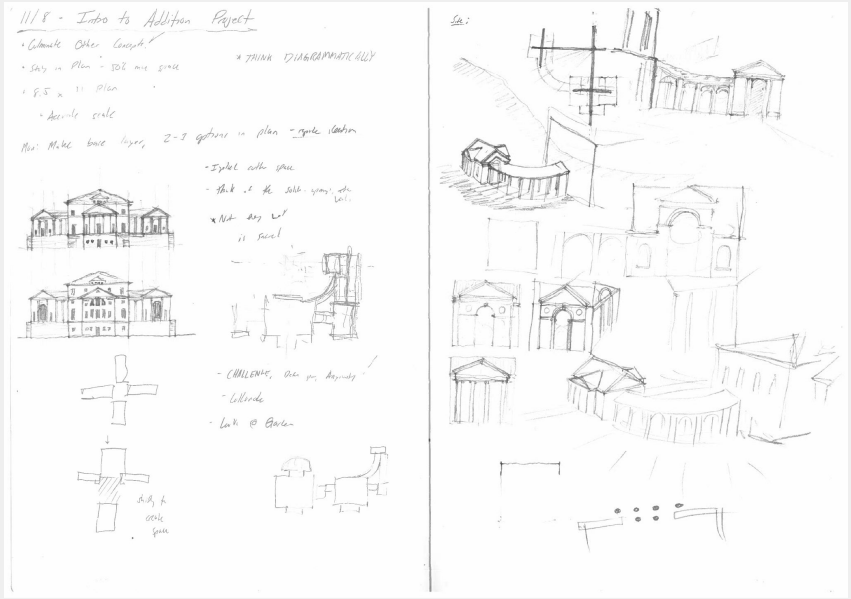
ARCH 270: Design In Practice - The Carillon Studio
Fall 2024
Medium: Pencil, Fineliner, Marker, Adobe Photoshop and Illustrator

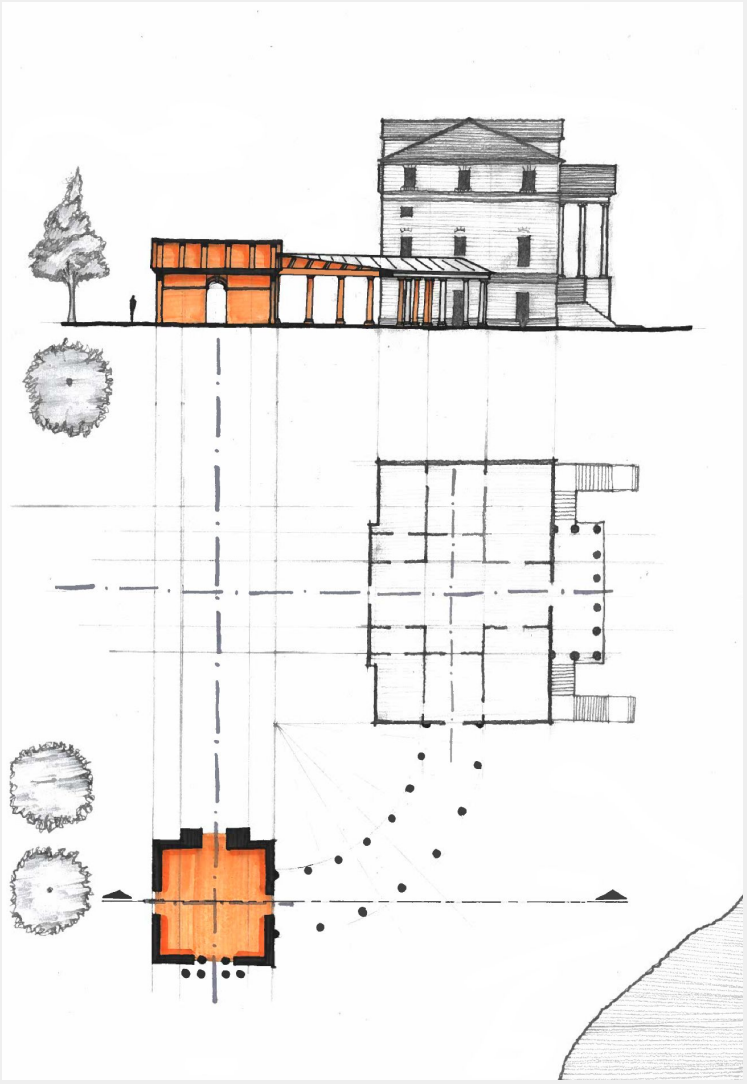
Worked with team of four to create a site plan and pavilion to revitalize a community park in Edmonston, MD. Focused on creating defined spaces, and designing a versatile pavilion for both formal and informal community events.

Responsible for all visual media based on design developed collaboratively with team.









[Left] Spatial Analysis

[Top Center] Initial Iterations

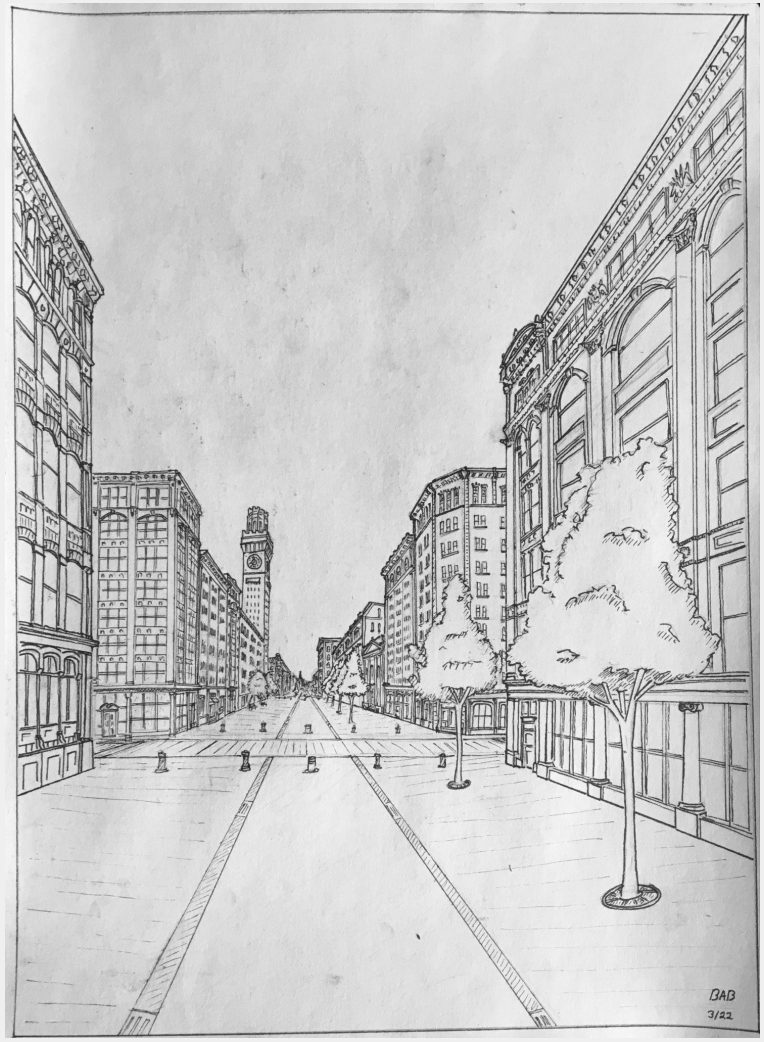
[Bottom Center] Sketchbook Studies

[Right] Final Addition Plan and Section

Villa Foscari
Precedent Analysis + Addition

ARCH 171: Design Thinking and Making in Architecture
Fall 2024
Medium: Pencil, Fineliner, Marker

Analysis of the spatial relationships and organizations of Palladio's Villa Foscari to inform the design of a distinct addition to the building. Focus was placed on creating balanced asymmetry, contextual harmony, and responding to site conditions.



Capriccio: Eutaw Street

Personal Project
Spring 2022
Medium: Fineliner

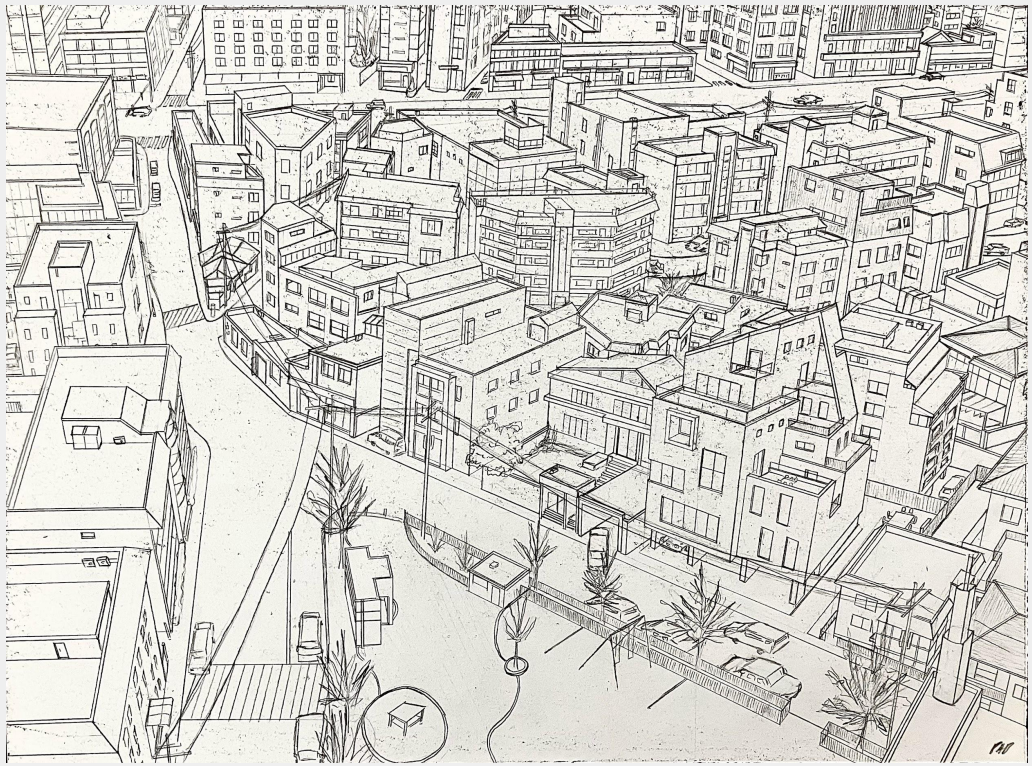
A fantastical view down Eutaw Street, Baltimore, featuring an ensemble of existing, historical, and imagined buildings.



Capriccio: Dream Scene

Drawing & Painting I Class
Fall 2023
Medium: 2B Pencil

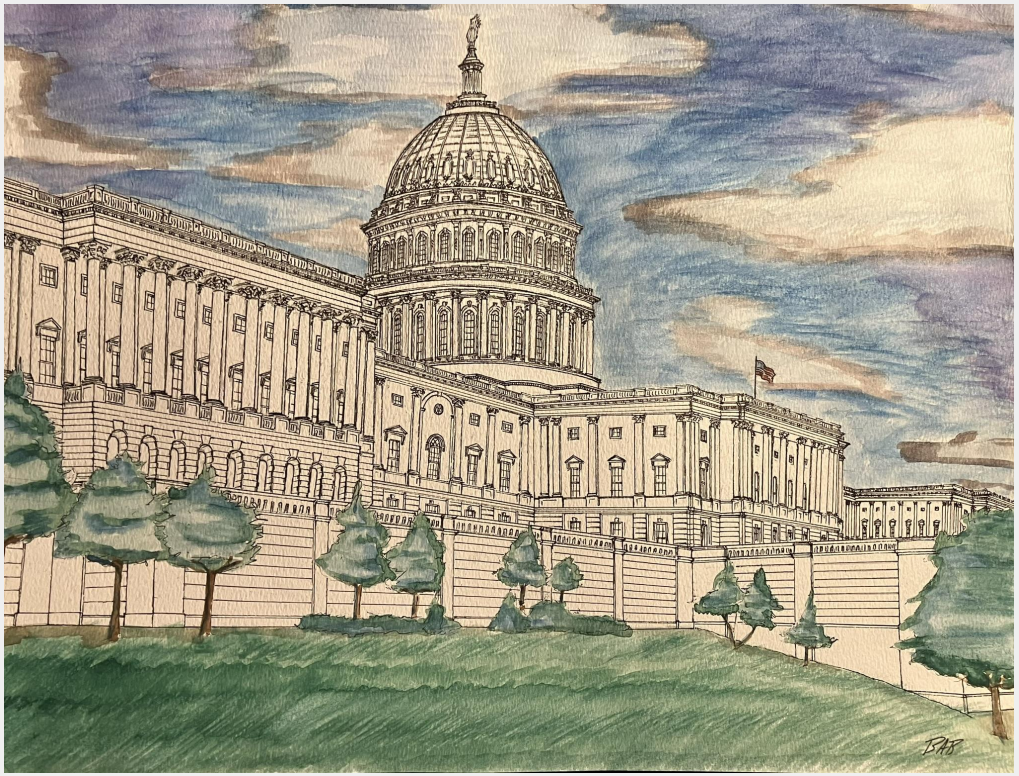
An illustration of a dream, walking a dog at the intersection of Philadelphia and New York City.



Gangnam Aerial

Drawing & Painting I Class
Fall 2023
Medium: Pencil

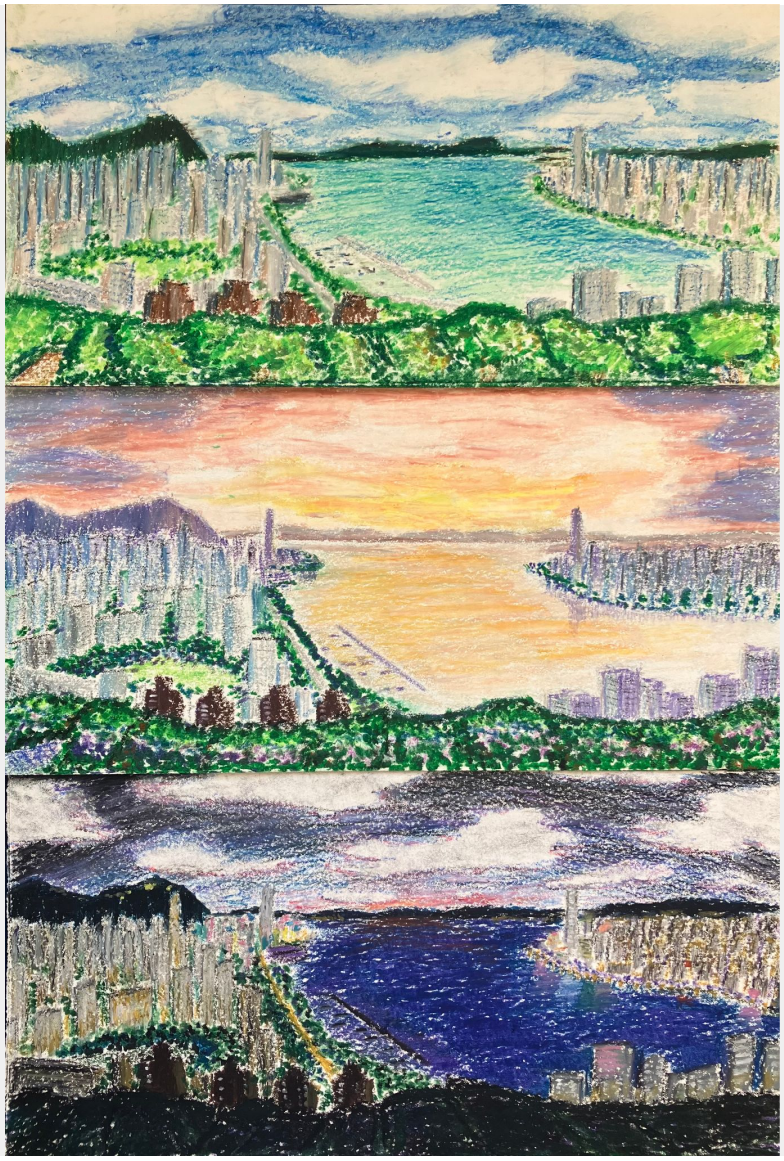
An aerial view of the layered fine-grained urban density in the Gangnam district of Seoul. Drawn from photograph.



Capitol Evening

Drawing & Painting I Class
Fall 2023
Medium: Fineliner, Watercolor

Painting of a tempestuous evening at the US Capitol.



Urban Kaleidoscope: Braemar Hill

Drawing & Painting I Class
Fall 2023
Medium: Oil Pastel

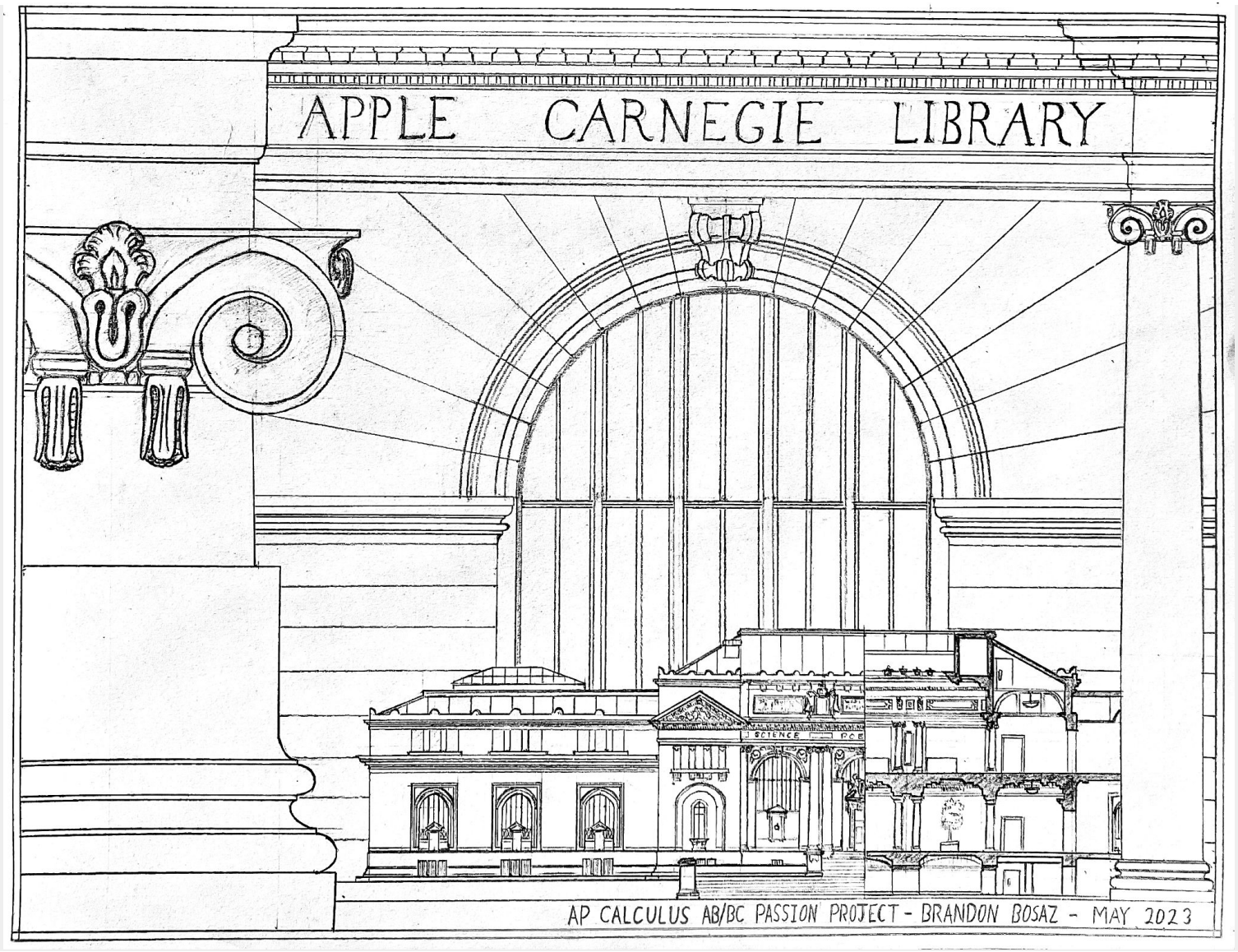
An art series capturing the changing colors of Hong Kong from Braemar Hill at different times of day.



The Globetrotters

Drawing & Painting I Class
Fall 2023
Medium: 2B Pencil

A sighting and shading exercise, depicting my old pair of running shoes.



Analytique: Apple Carnegie Library

AP Calculus AB/BC Passion Project
Spring 2023
Medium: HB Pencil

Composition of architectural elements from the Apple Carnegie Library in Washington, DC. Based on the Beaux-Arts Analytique, attention was placed on correct scale and proportion of elements. Drawn from photos and section drawings available online.