

NICHOLAS SALMAGGI

ARCHITECTURE PORTFOLIO

PASADENA CITY COLLEGE

2021 - 2023

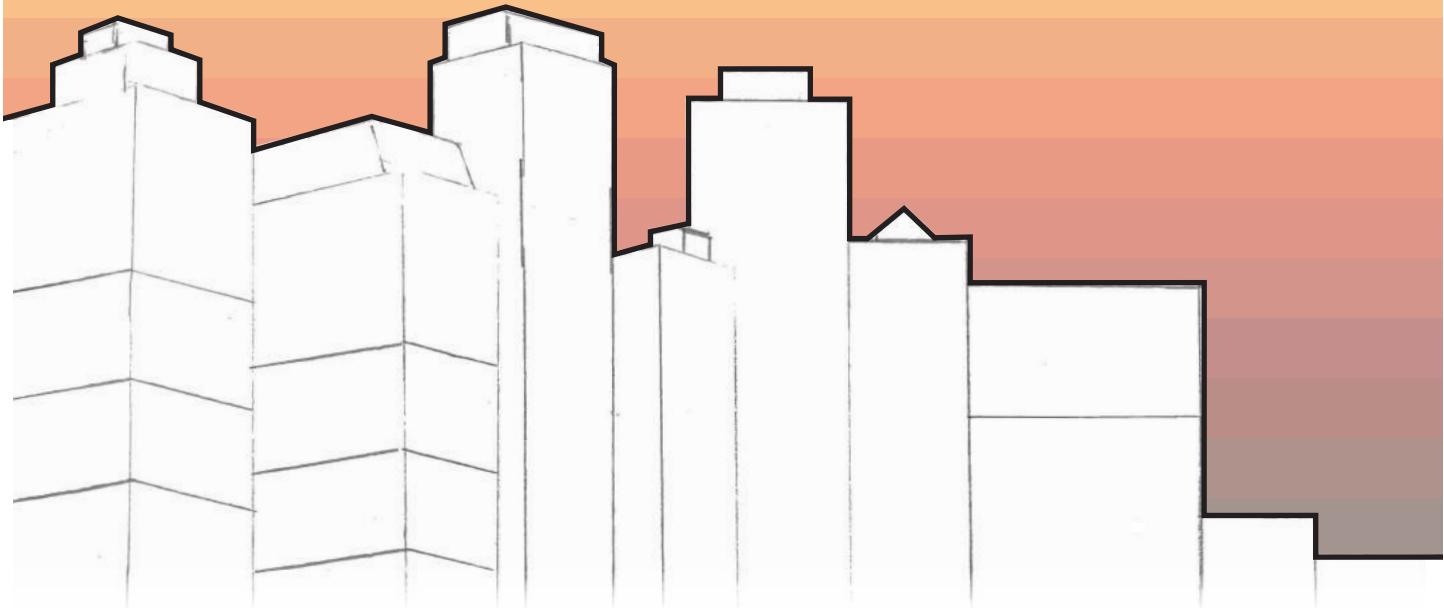


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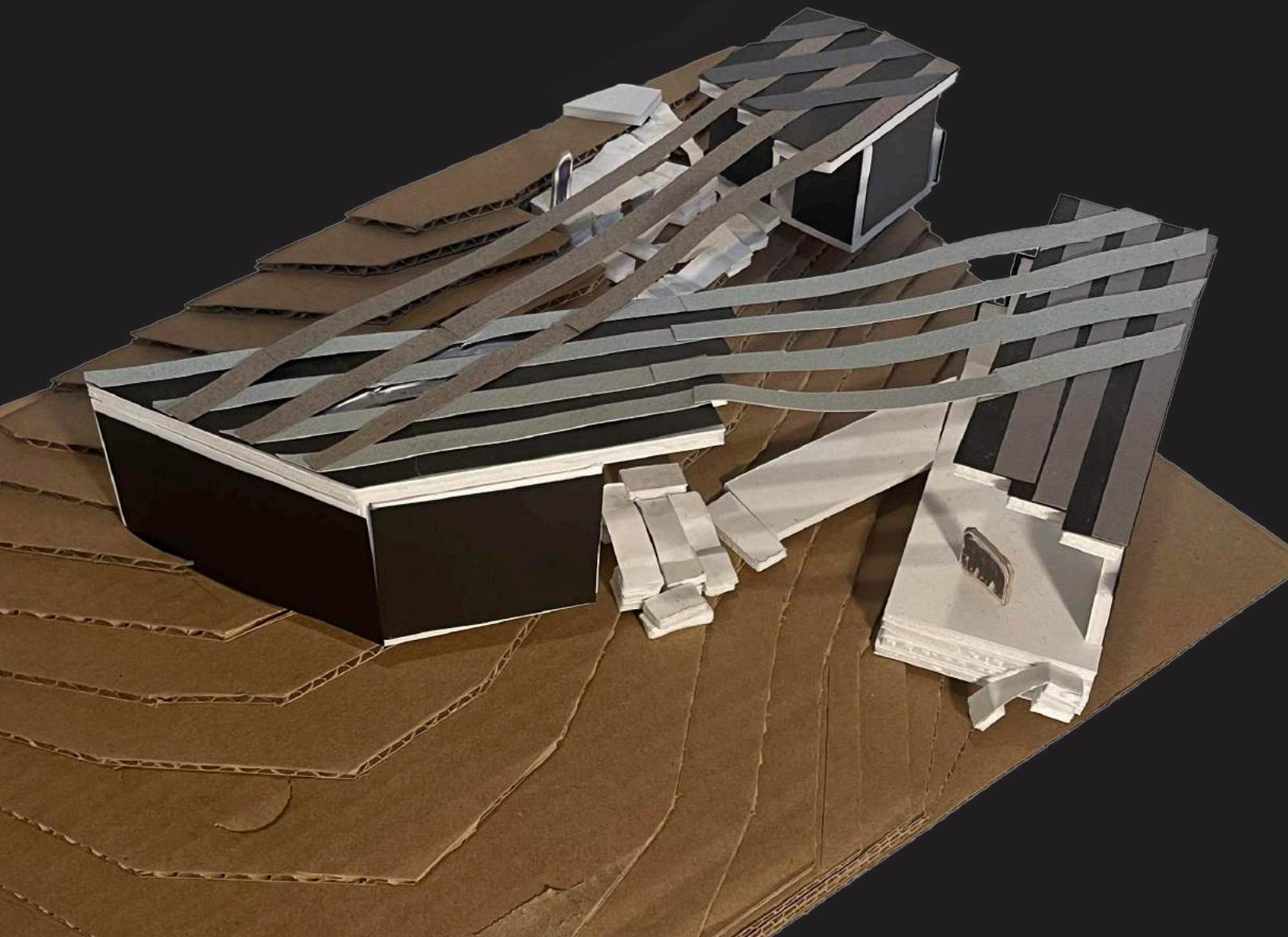
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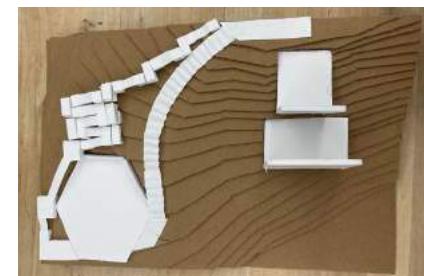
Fourth Iteration



Third Iteration

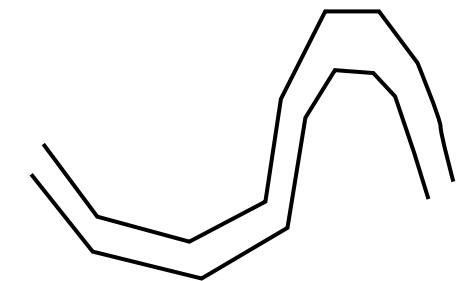


Second Iteration

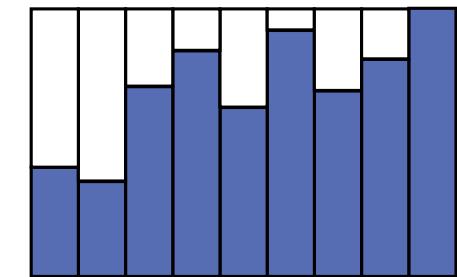


First Iteration

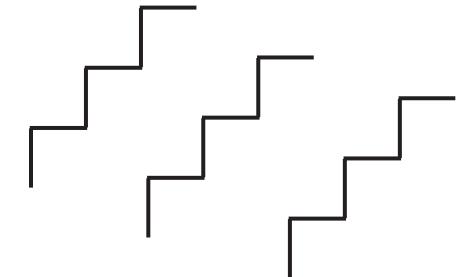
Design Process



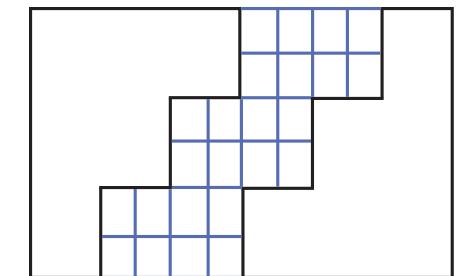
Linear Organization
Drum Sample



Additive Operation
Multiple Instruments



Rhythm System
Bassline



Interstitial Spaces
Saxophone

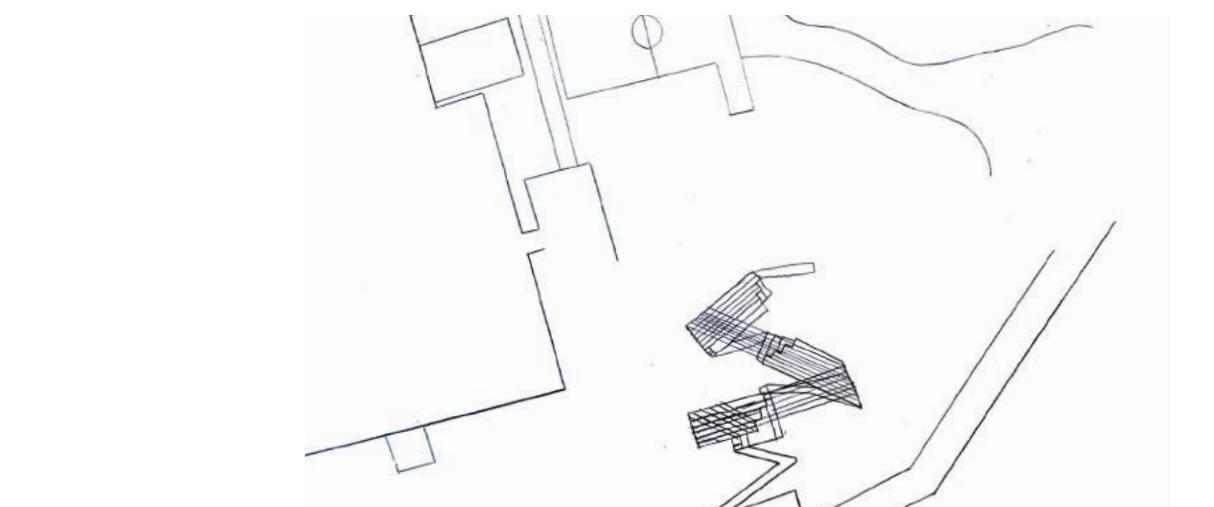
Design Principles From Instruments

01: FUNK PAVILION

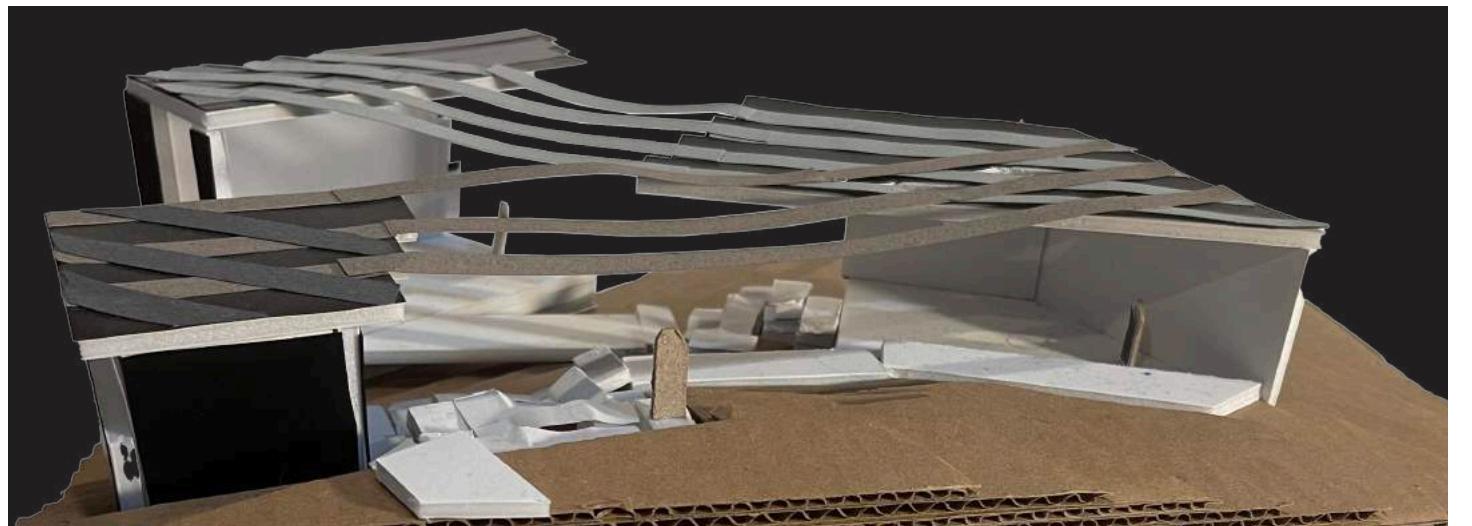
ARCH 10A: ARCHITECTURAL DESIGN FUNDAMENTALS | FALL 2022

PROF. MARK NG | INDIVIDUAL PROJECT

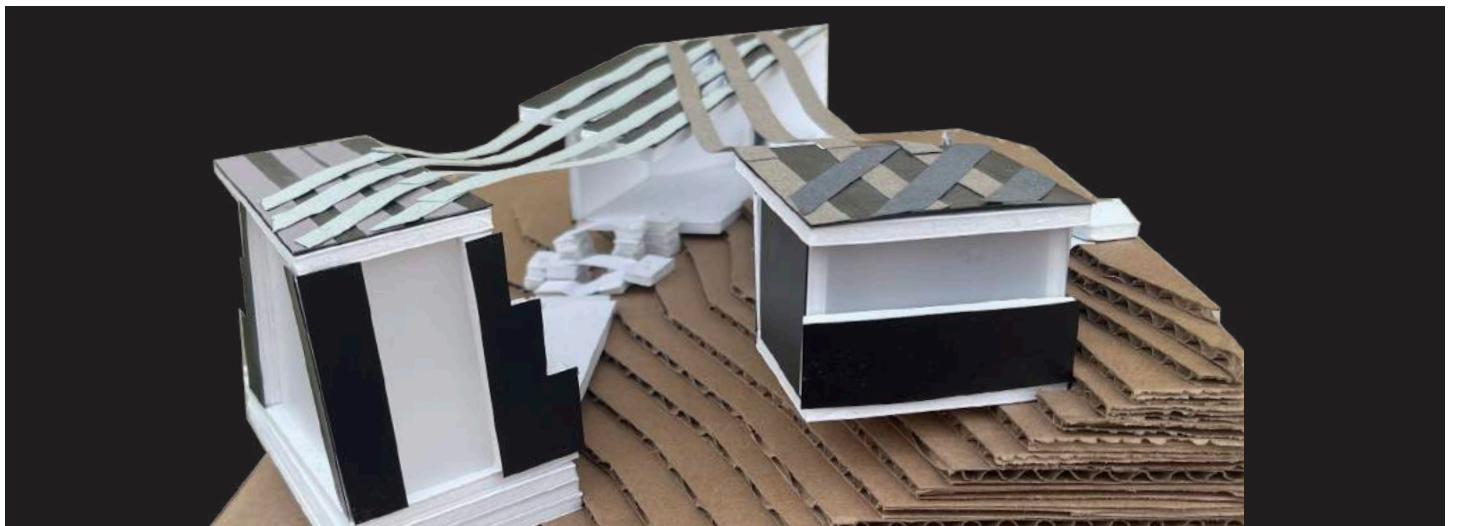
This pavilion was created using design principles taken from the elements of a song. It is located in place of where the Sinclaire Pavilion currently is in Pasadena. The design was obtained through Song Exploder in the context of the song "Them Changes" by Thundercat, giving the pavilion a funk feeling. It has a linear organization influenced by the drums, an additive operation through the multiple instruments, a system with rhythm from the bassline, and interstitial spaces taken from the saxophone played at certain points in the song.



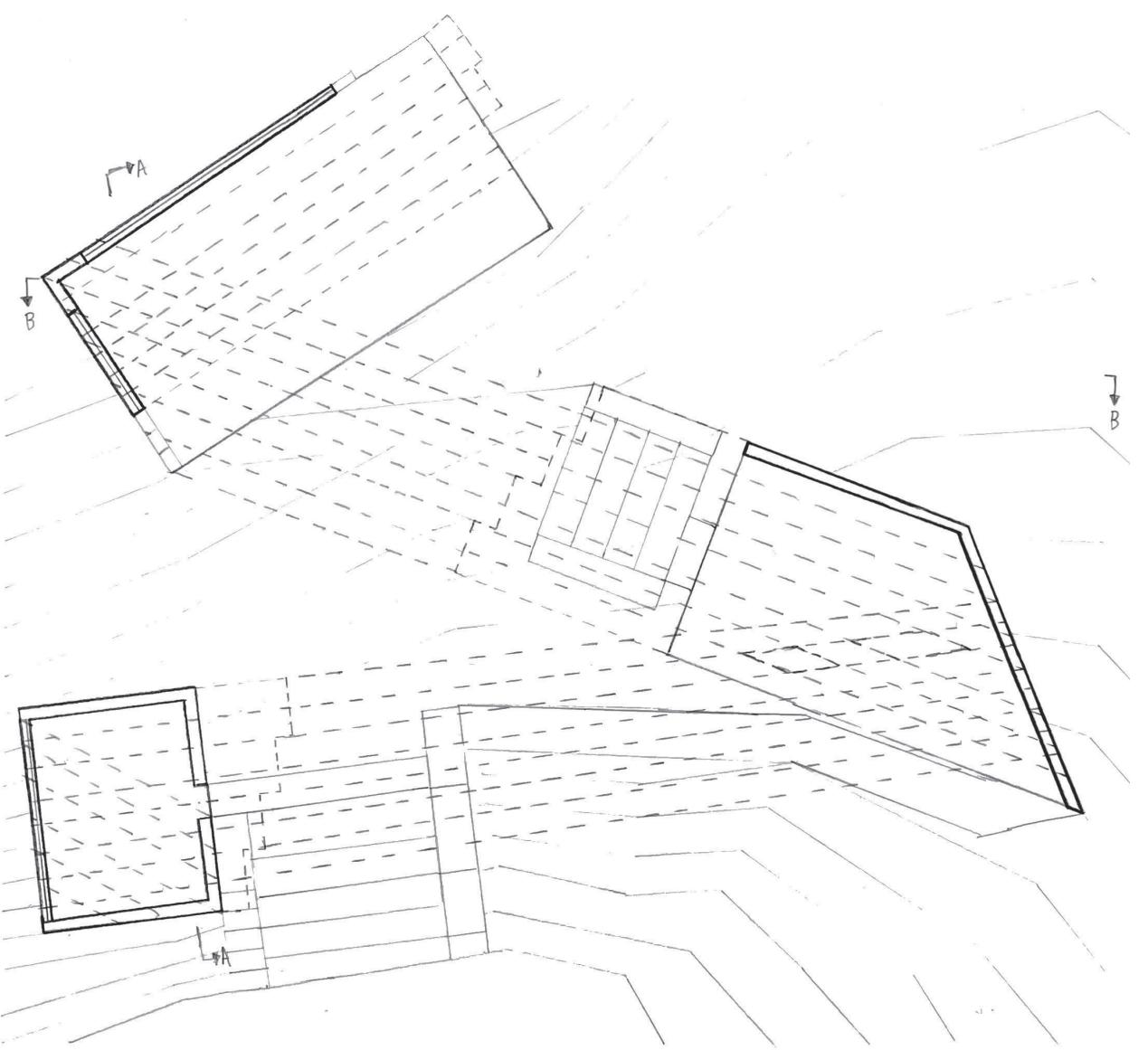
Site Plan
Scale: 1/64"=1'-0"



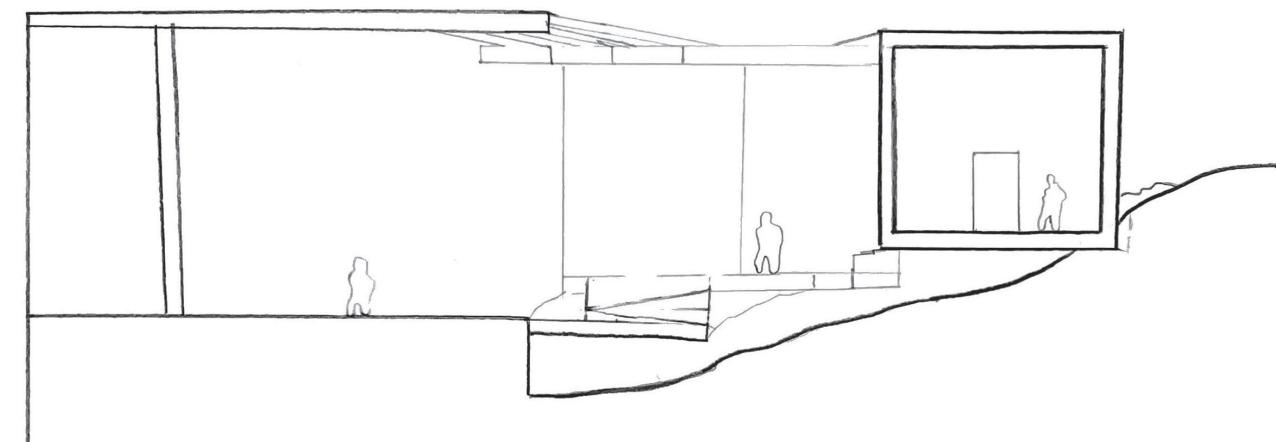
South Elevation Model View



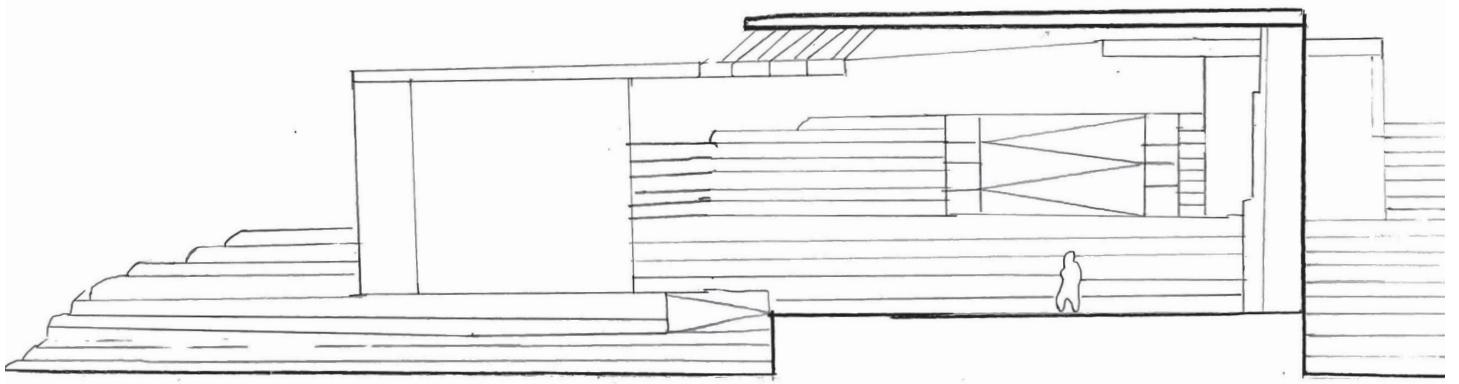
West Elevation Model View



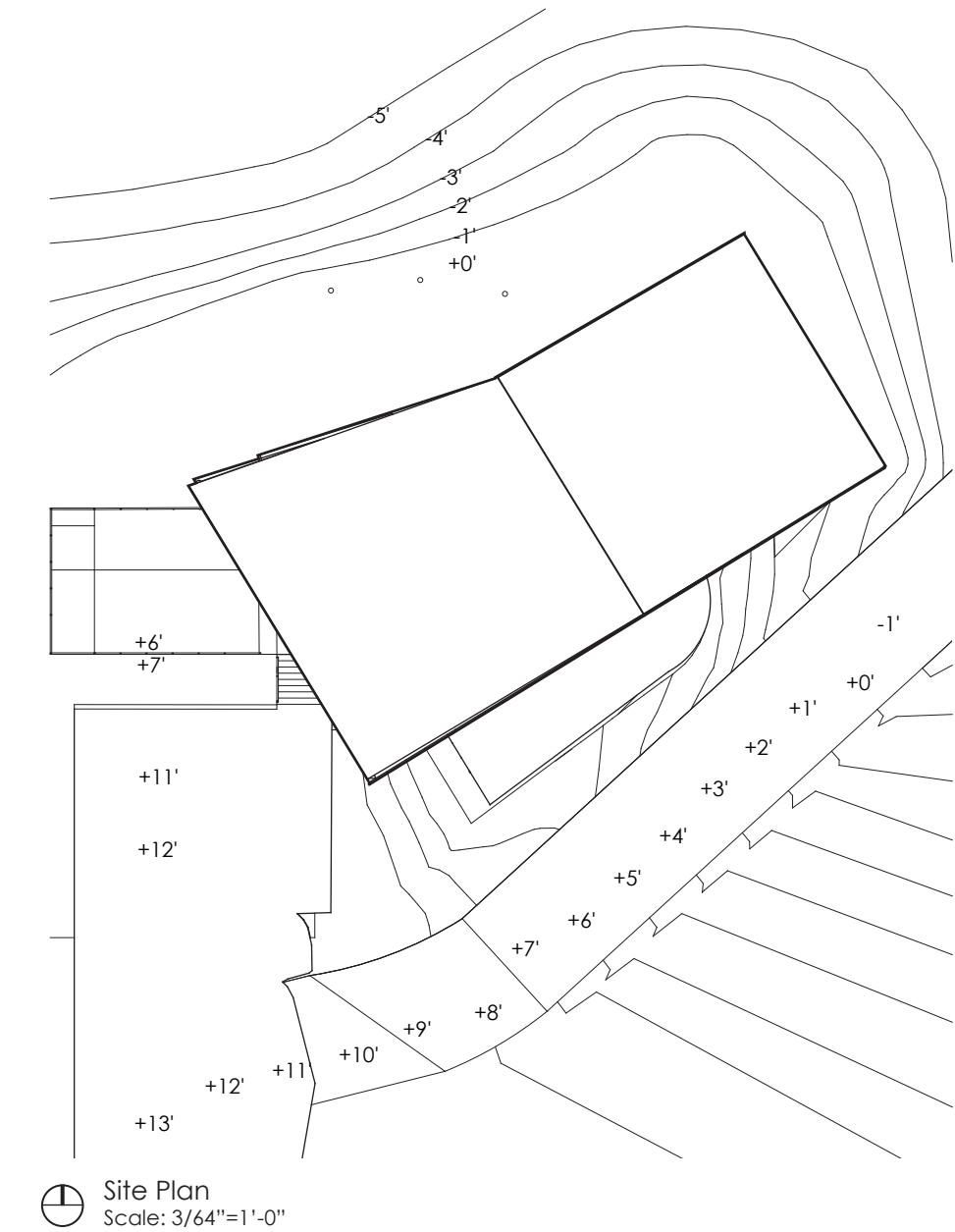
Floor Plan
Scale: 3/32"=1'-0"



Section A
Scale: 3/32"=1'-0"



Section B
Scale: 3/32"=1'-0"



Upper View of Interior



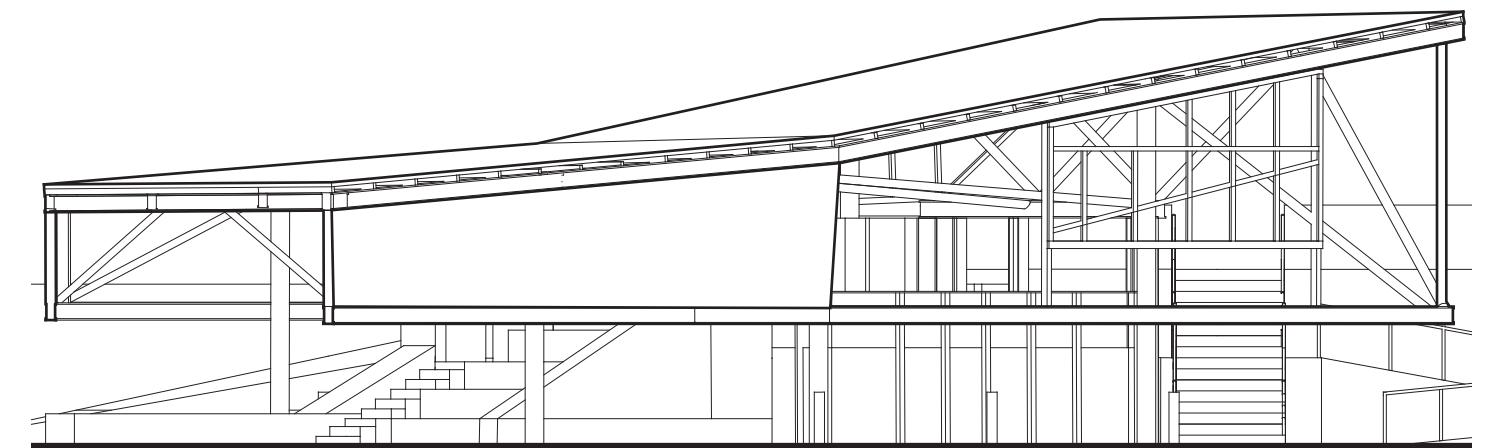
Lower View of Interior

02: SINCLAIRE PAVILION

ARCH 12A: VISUAL COMMUNICATIONS I | FALL 2022

PROF. NATASHA BAJC | INDIVIDUAL PROJECT

Originally designed in 2001, the Sinclaire Pavilion is a 3,000-square-foot structure that includes informal gathering spaces, a kitchenette, display areas, and a mini amphitheater. There is flexible programming space for outdoor events and activities. This precedent project gave an introduction to architectural 3D modeling software.



North Elevation
Scale: 3/32"=1'-0"



03: HOODED HILL HOUSE

ARCH 10B: DESIGN FUNDAMENTALS | SPRING 2023

PROF. BEN WARWAS | INDIVIDUAL PROJECT

Nestled in a hillside, the Hooded Hill House is a 1,200-square-foot single-family dwelling with a 500-square-foot JADU. It uses design concepts from architect Adolf Loos and artist David Hammons. The design is influenced by Loos' Raumplan and the idea of a plain exterior with a luxurious interior from Villa Muller. It is also influenced by Hammons' hood design from his piece "In the Hood."



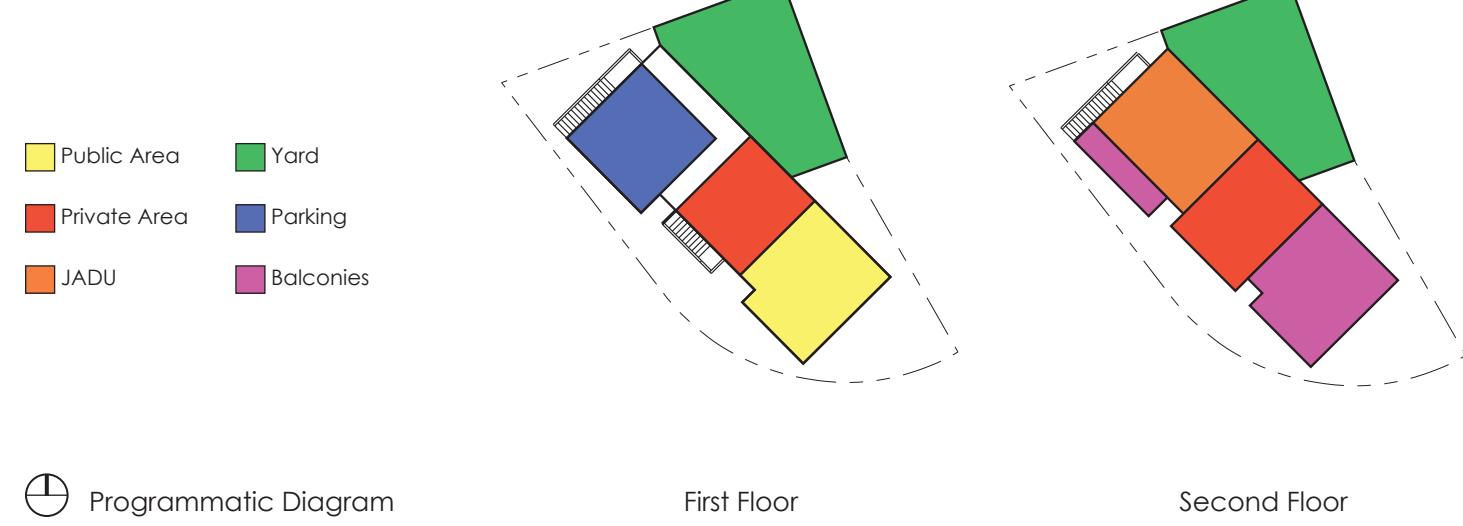
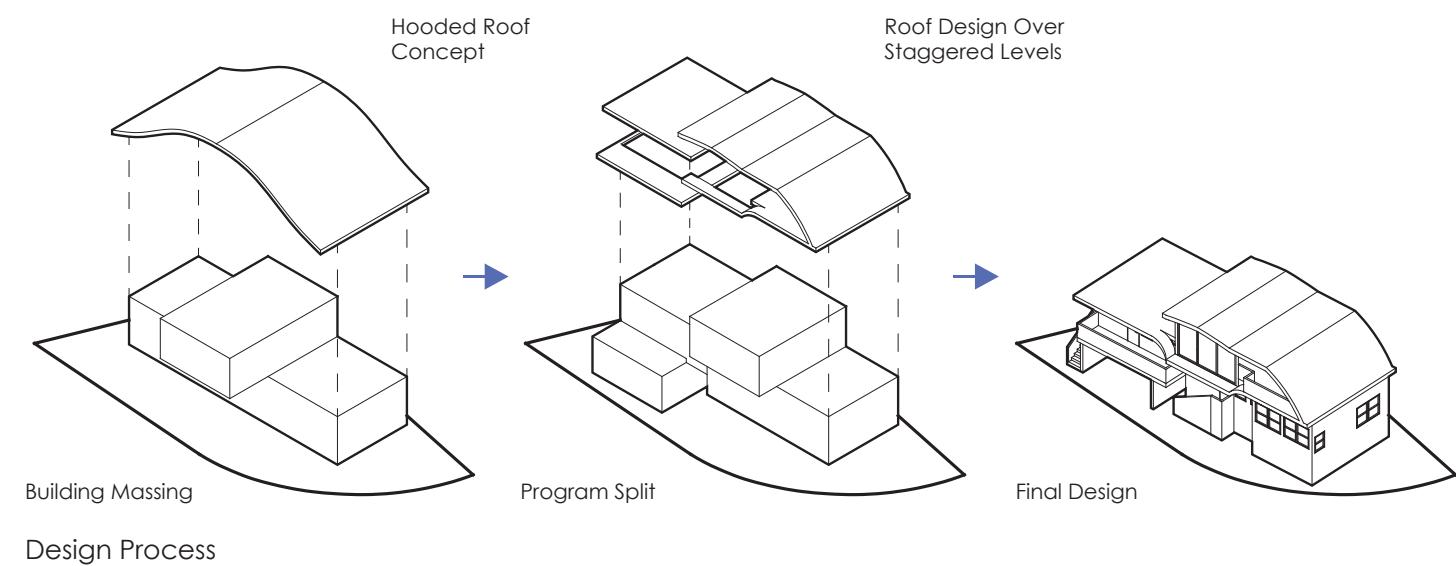
Adolf Loos' Villa Muller, a modernist home completed in 1930 in Prague, Czech Republic.

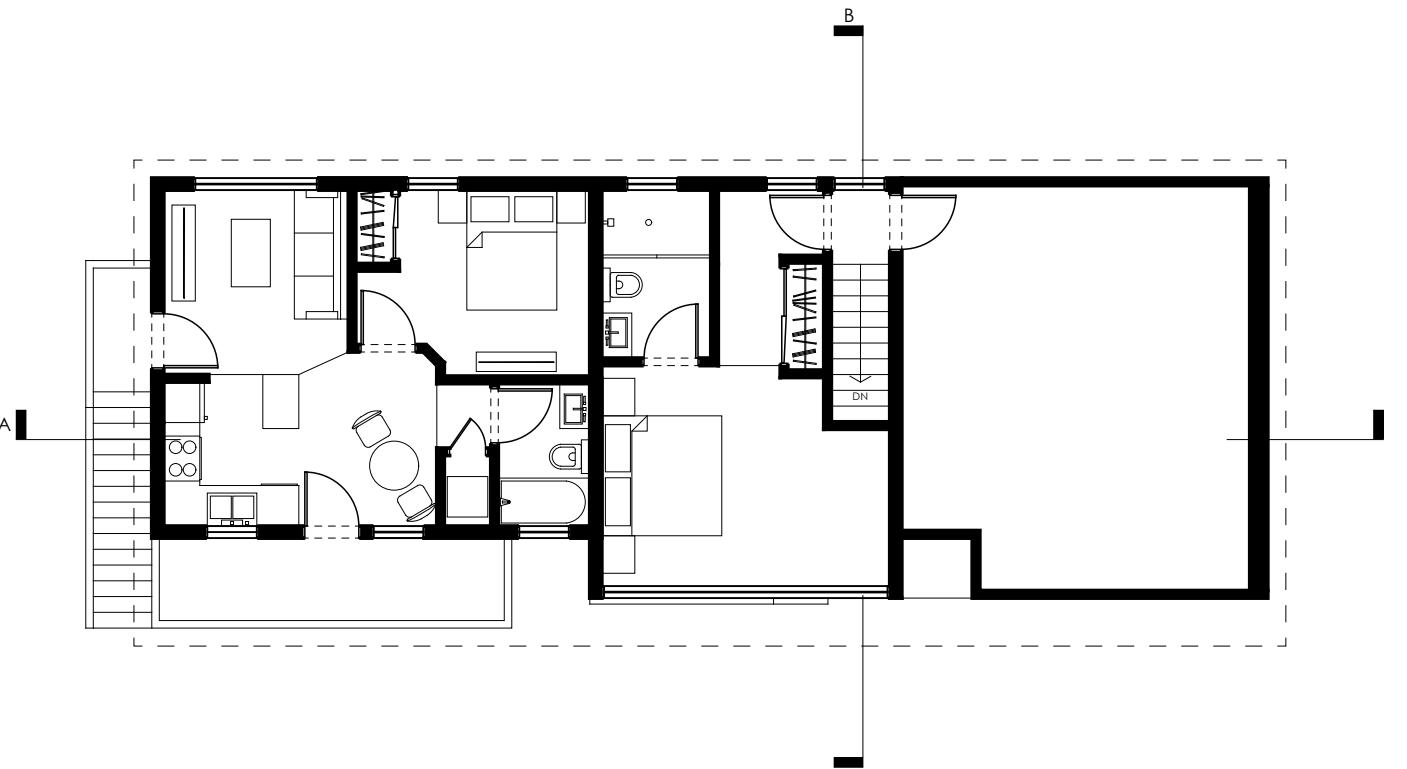


David Hammons' art piece, "In the Hood" from 1993 in the Mnuchin Gallery in New York.



Physical Model Using Combined Precedents

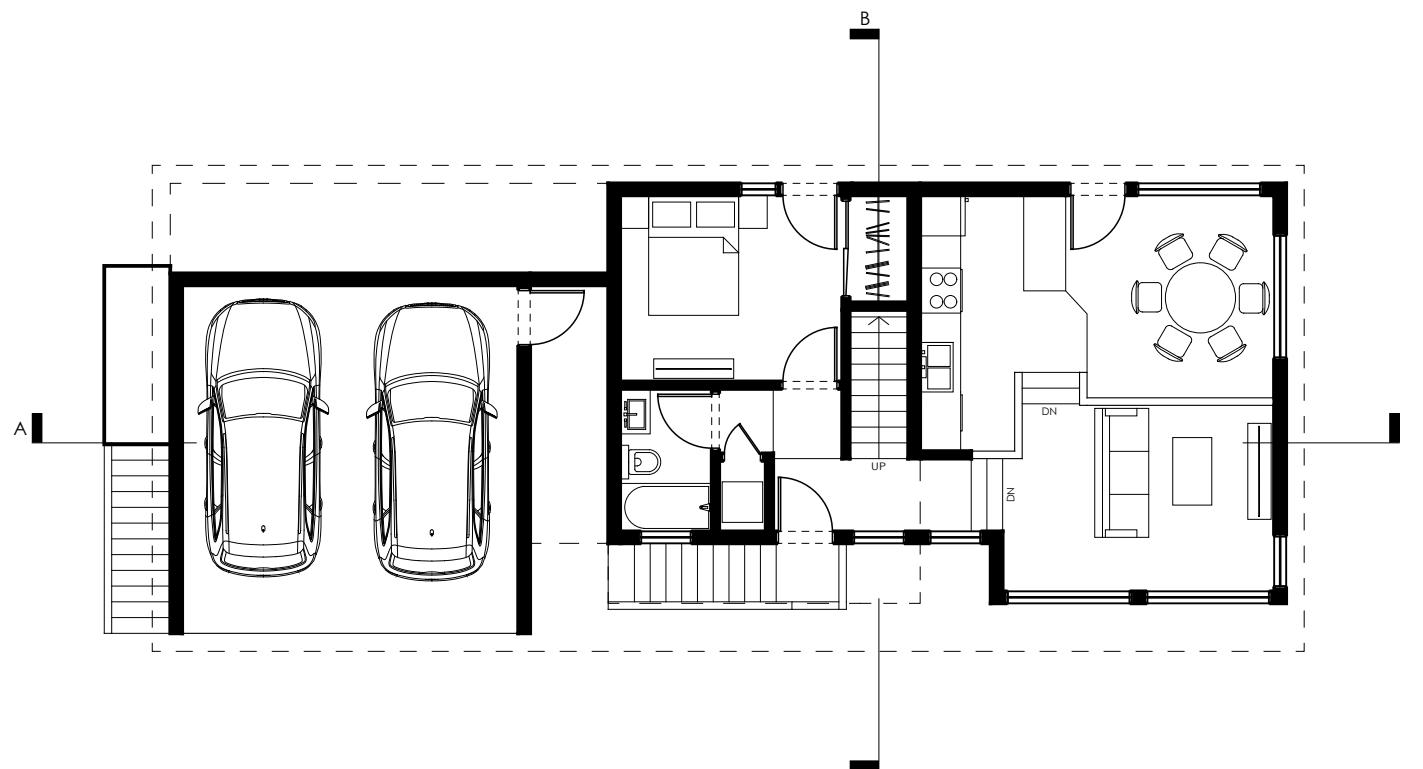




Second Floor Plan
Scale: 3/32"=1'-0"



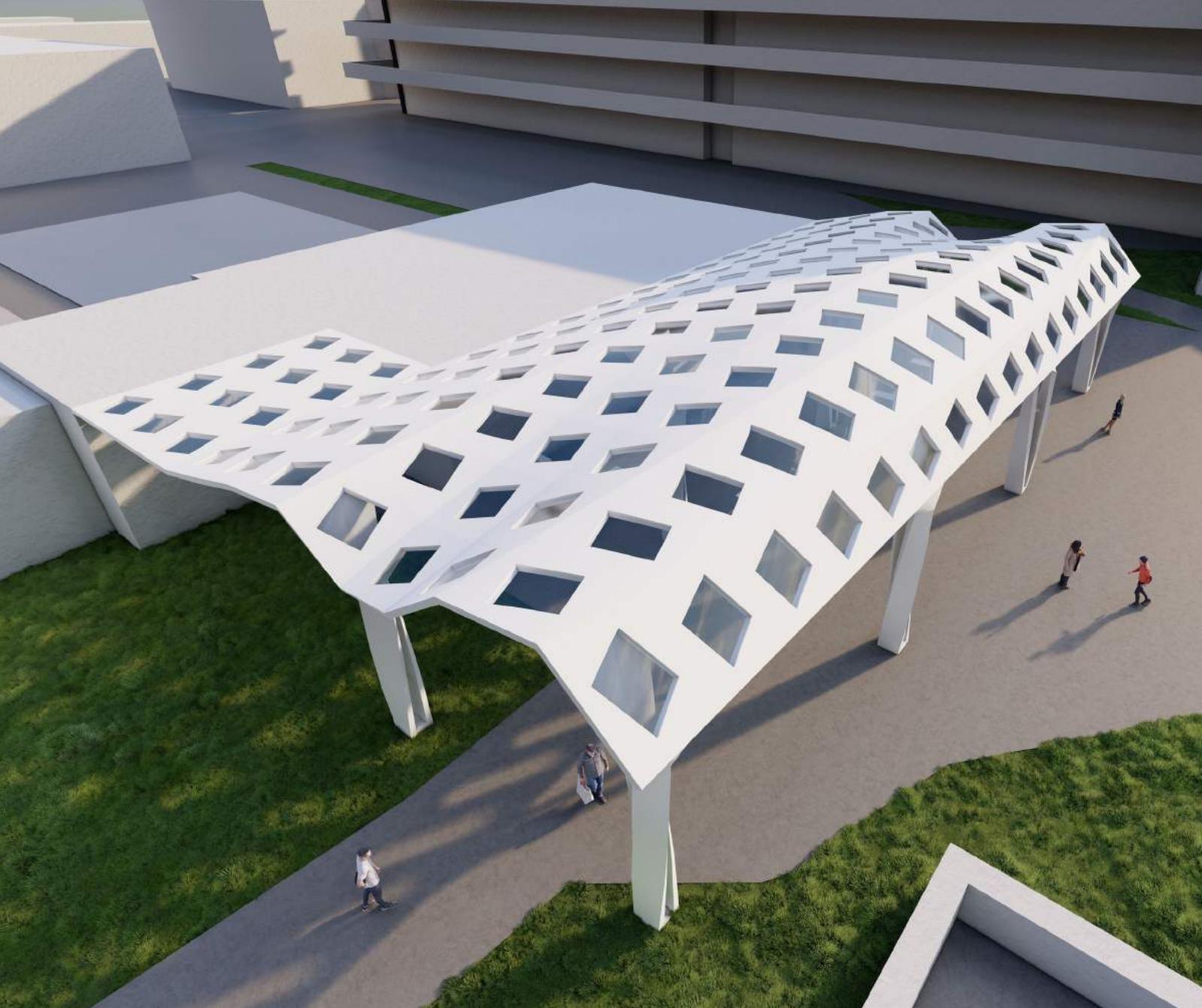
South West Elevation
Scale: 3/32"=1'-0"



First Floor Plan
Scale: 3/32"=1'-0"



Section A
Scale: 3/32"=1'-0"



04: CAFÉ CANOPY

ARCH 12B: VISUAL COMMUNICATIONS II | SPRING 2023

PROF. GREGORY ZAMORA | INDIVIDUAL PROJECT

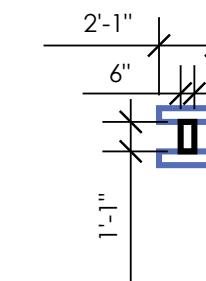
A canopy located on a 50-by-100-foot site on the Pasadena City College campus. The canopy's design process uses square shapes created through Grasshopper software to form a specific geometric pattern. There are a total of 140 roof panel components made from steel with glass in the center. The panels are supported by 8 steel columns which twist up to the 25-foot-high surface. The canopy helps to shelter from the sun and rain while allowing light to shine through the glass on each panel.



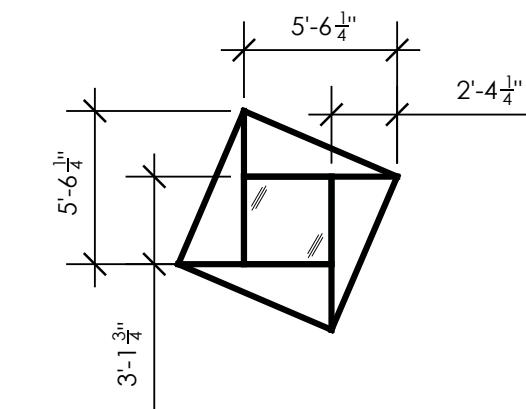
Pasadena City College Site



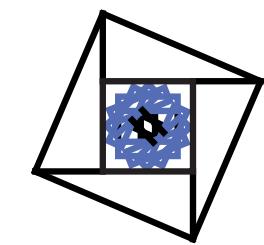
Pedestrian Traffic Diagram



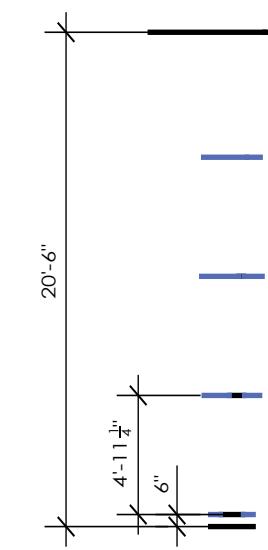
Column Design



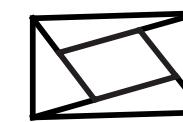
Roof Design



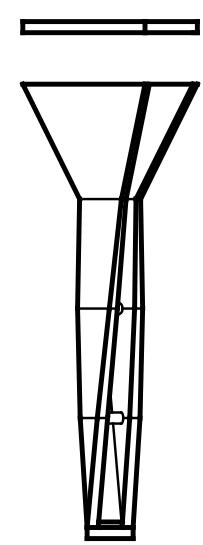
Rotated Organization



Column System



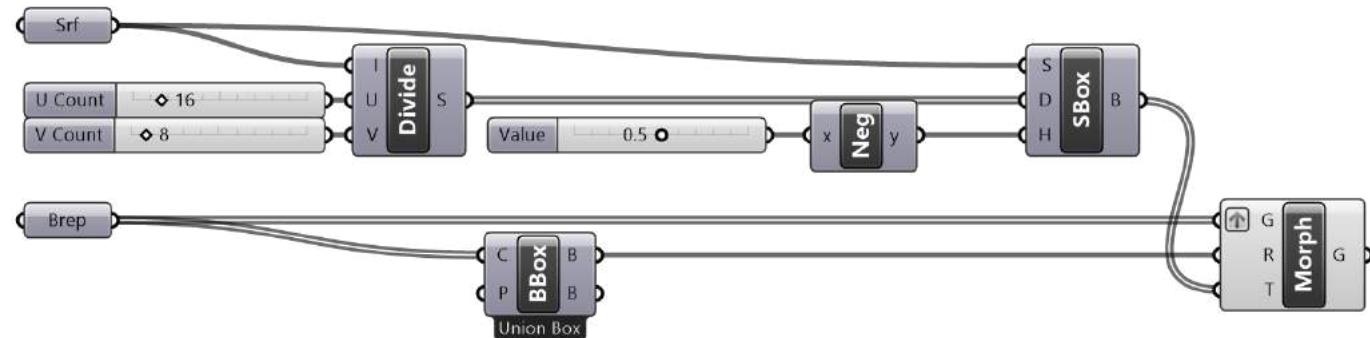
Stacked Pattern



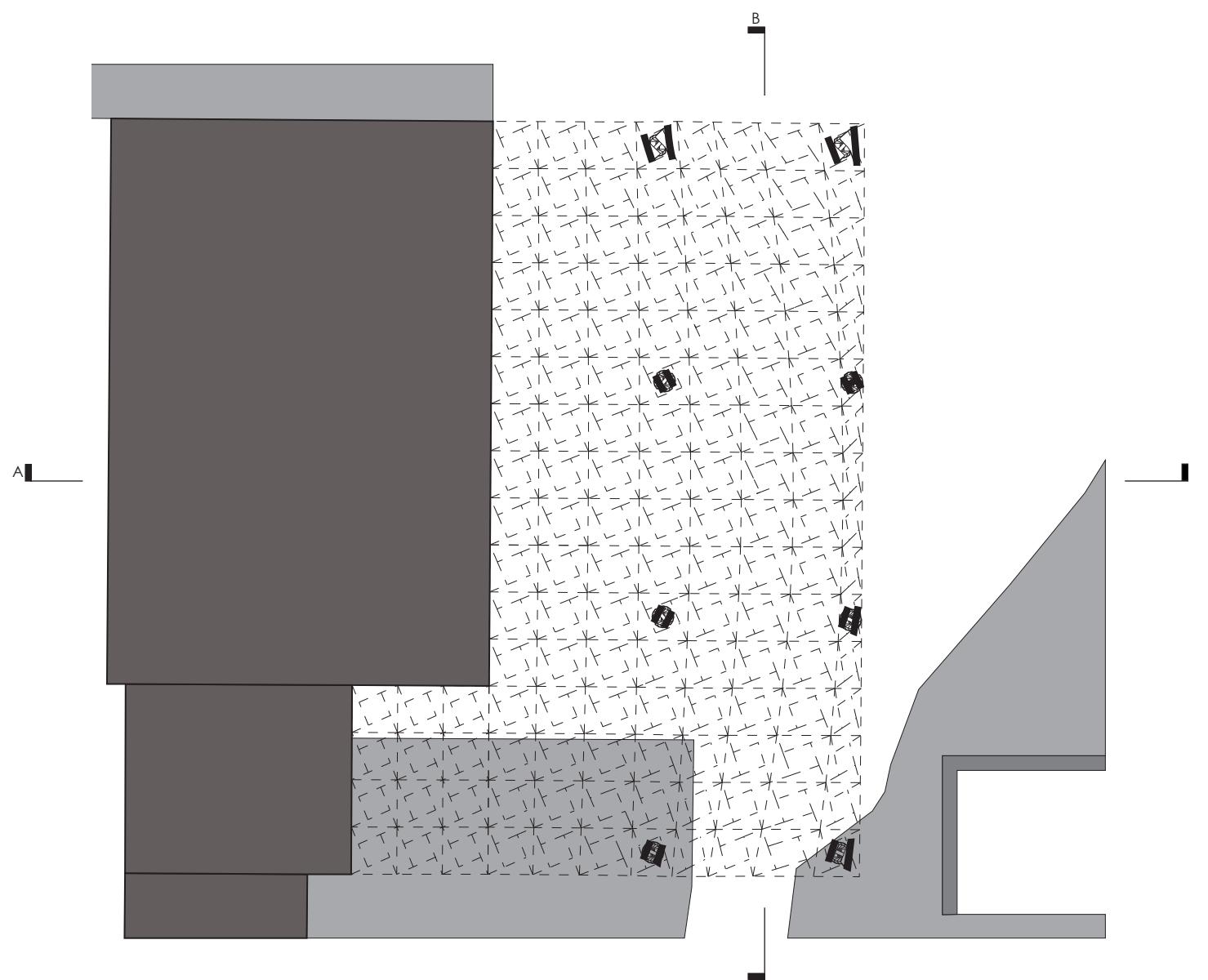
Column and Roof Panel



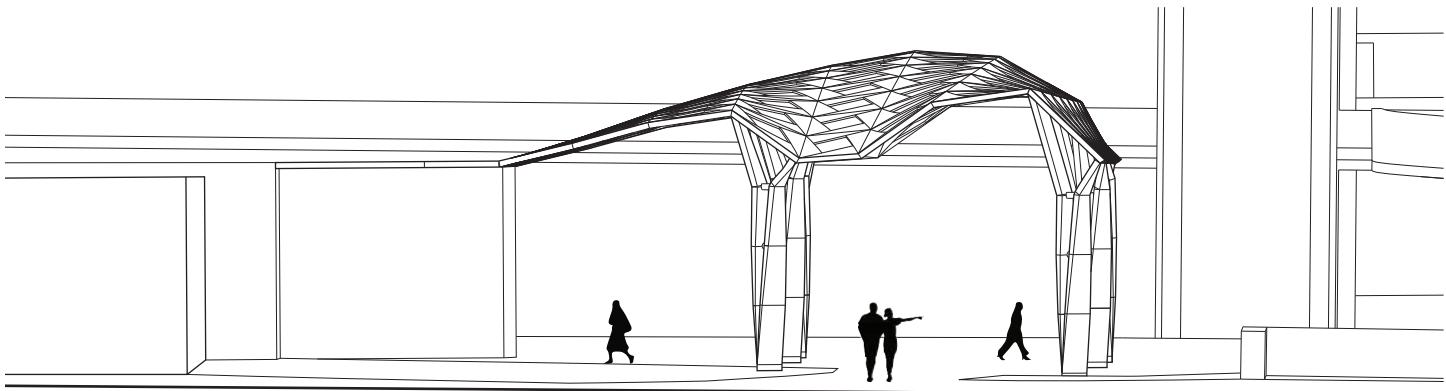
Café Interior



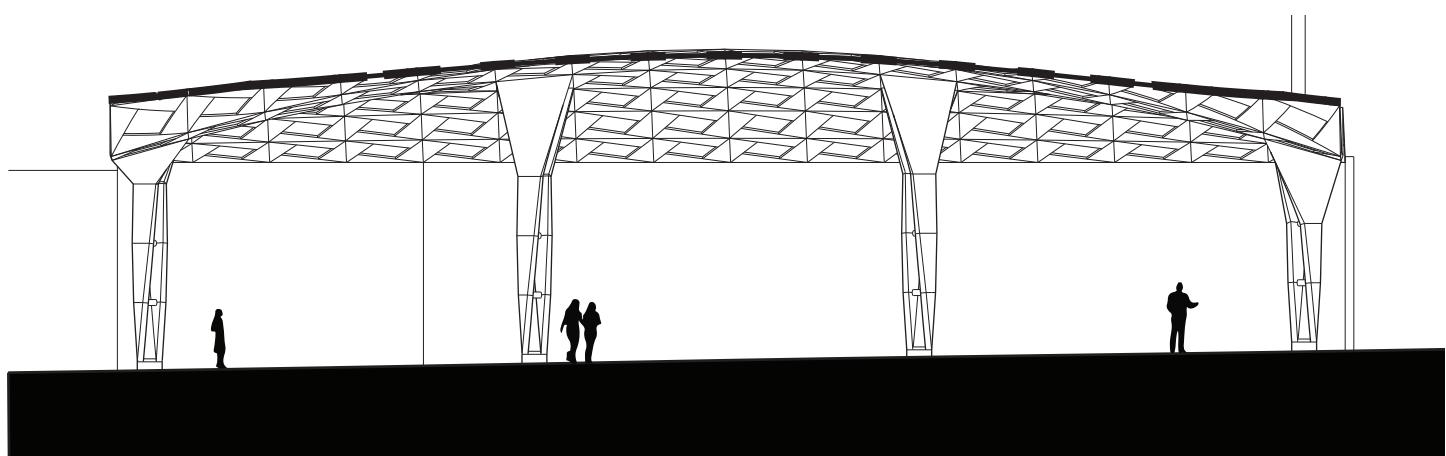
Canopy Geometry



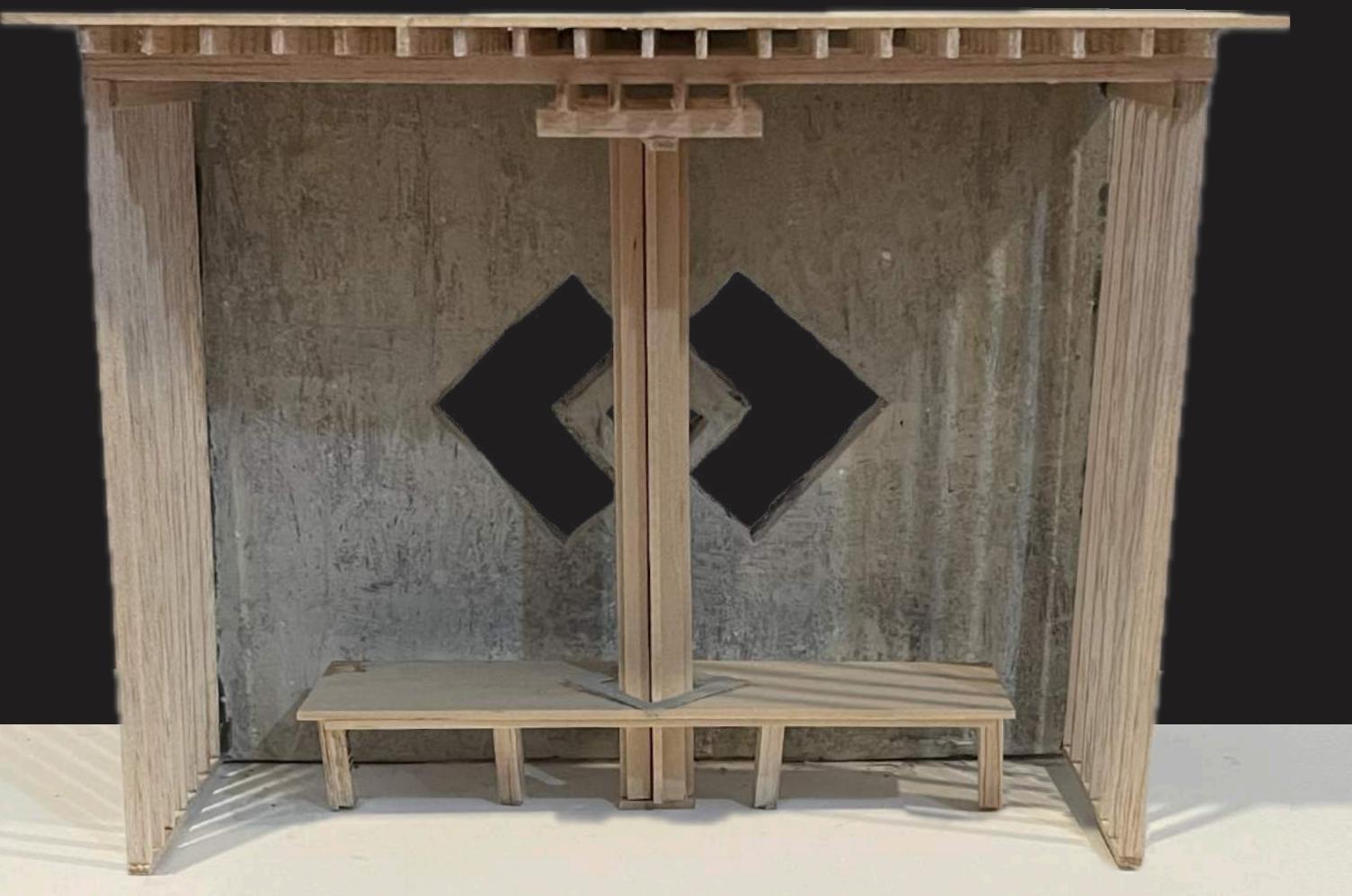
Floor Plan
Scale: 3/64"=1'-0"



South Elevation
Scale: 1/16"=1'-0"



West Section B
Scale: 1/16"=1'-0"



05: BUS STOP SHELTER

ARCH 14: MATERIALS AND PROCESSES OF CONSTRUCTION | SUMMER 2023

PROF. OLEG AND ROXANNA MIKHAILIK | INDIVIDUAL PROJECT

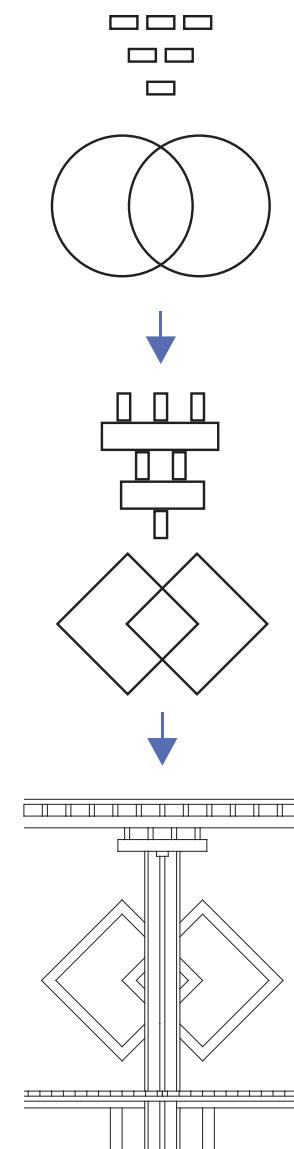
A bus stop shelter designed using only two materials, wood and concrete. The concept was influenced by aspects from the two architects, Kengo Kuma (wood) and Carlo Scarpa (concrete). It uses a stacked wooden roof structure supported by a post and beams with a concrete wall behind it. The wooden bench has a concrete cast for the main wooden post system to go through.



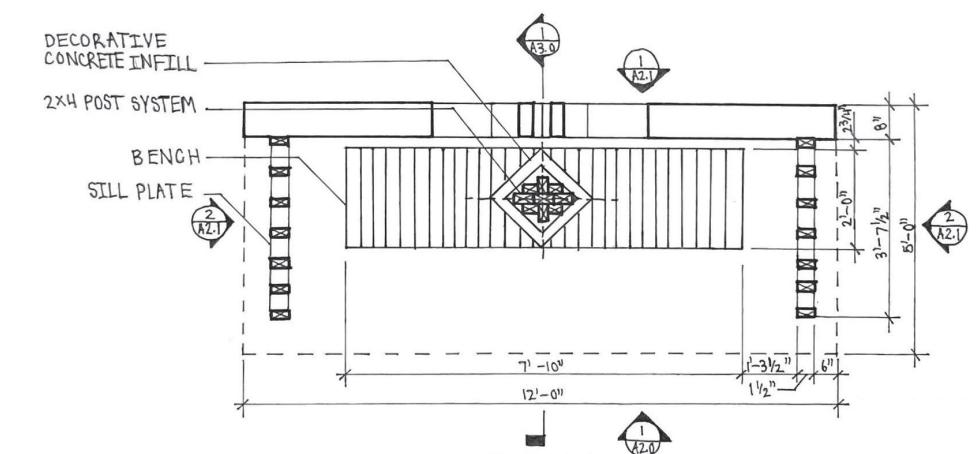
Kengo Kuma's use of a wood lattice structure in the Yusuhara Wooden Bridge completed in Japan in 2011.
Photo by Takumi Ota



Carlo Scarpa's use of cast-in-place concrete in Brion Tomb Completed in San Vito D'Altivole near Treviso Italy in 1978.
Photo by ARCHIVIBE

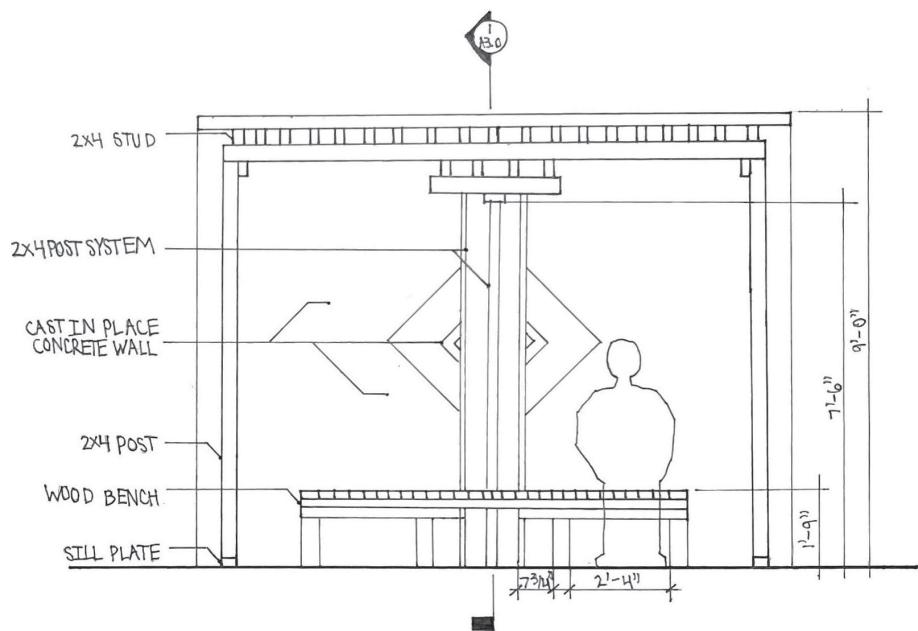


Roof Plan
Scale: 3/16"=1'-0"

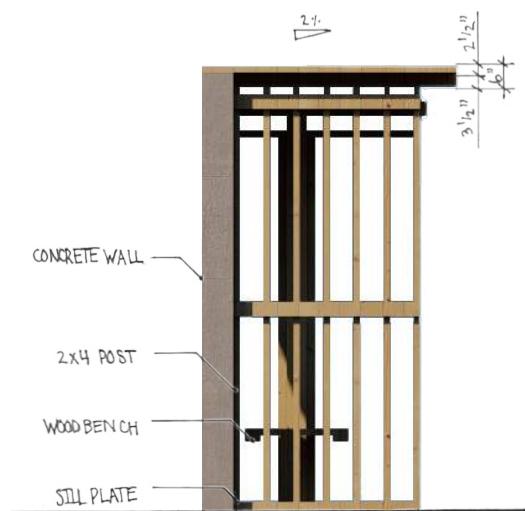


Design Process

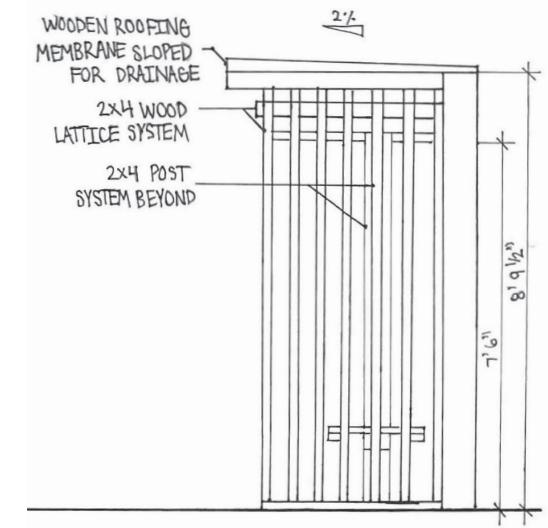
Floor Plan
Scale: 3/16"=1'-0"



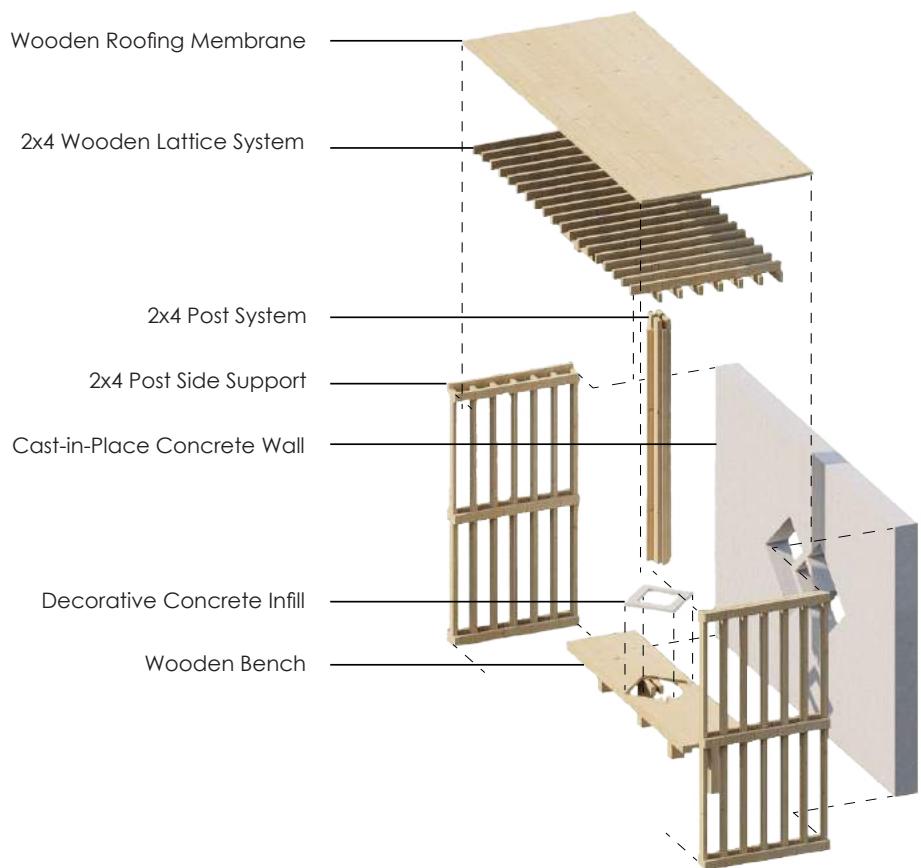
Front Elevation
Scale: 3/16"=1'-0"



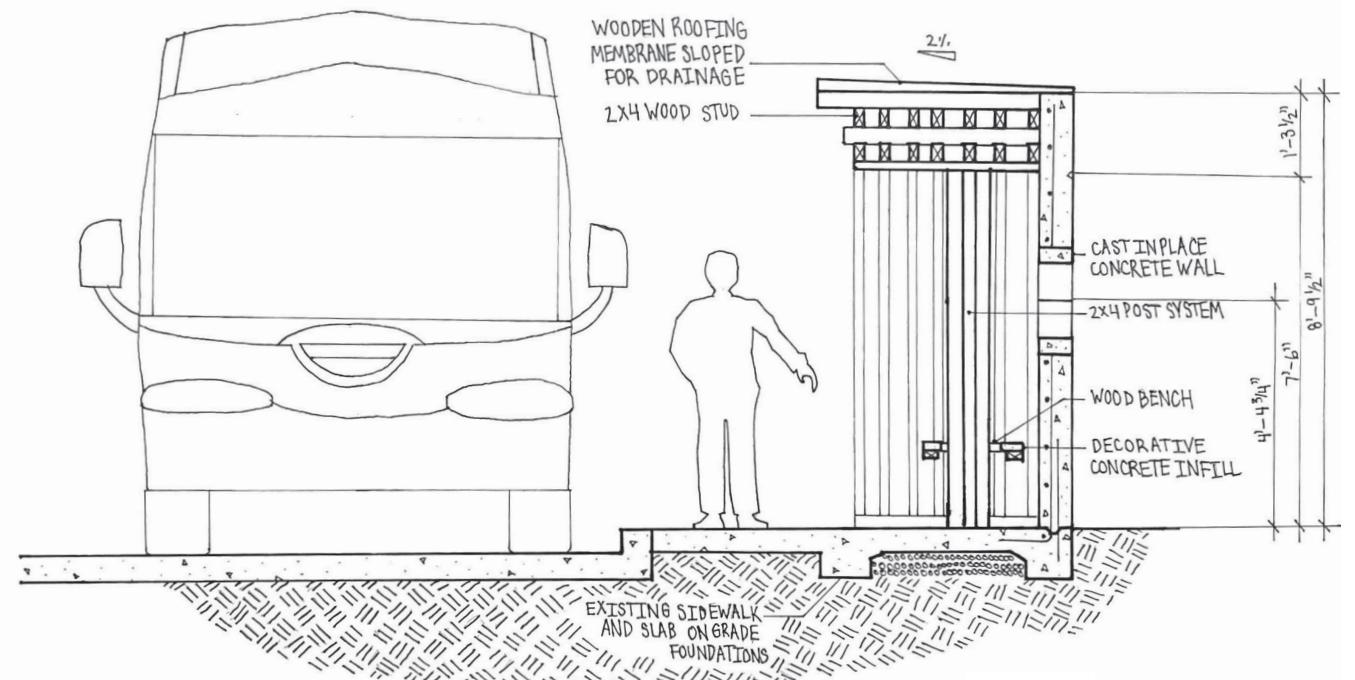
Left Elevation
Scale: 3/16"=1'-0"



Right Elevation
Scale: 3/16"=1'-0"



Structural Axon



Section
Scale: 3/16"=1'-0"



06: THE OASIS

ARCH 20A: ARCHITECTURAL DESIGN | FALL 2023

PROF. GREGORY ZAMORA | GROUP PROJECT

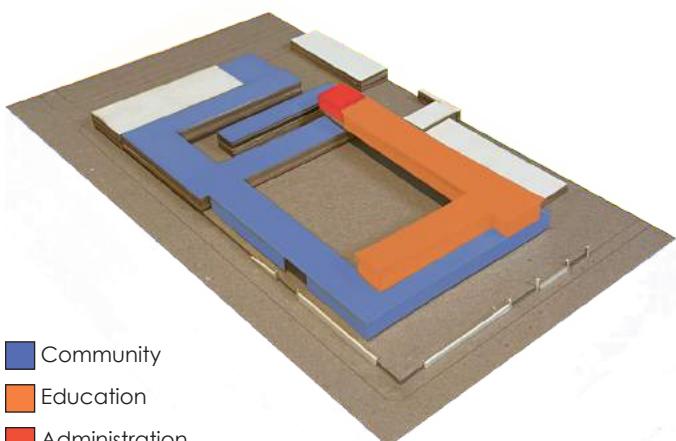
This collaborative project's layout utilizes educational, administrative, shared community, and other helpful service spaces for a youth center while using two-thirds of the previous building on North Hill Avenue and East Colorado Boulevard. The building is centered around the concept of being an oasis for the youth that balances hard work and serenity. This was influenced by the scarcity of urban green spaces and active areas for the youth around the location in Pasadena. The structure explores the relationships between interior and exterior spaces. There are two main floors for the services that are around 41,000 square feet.



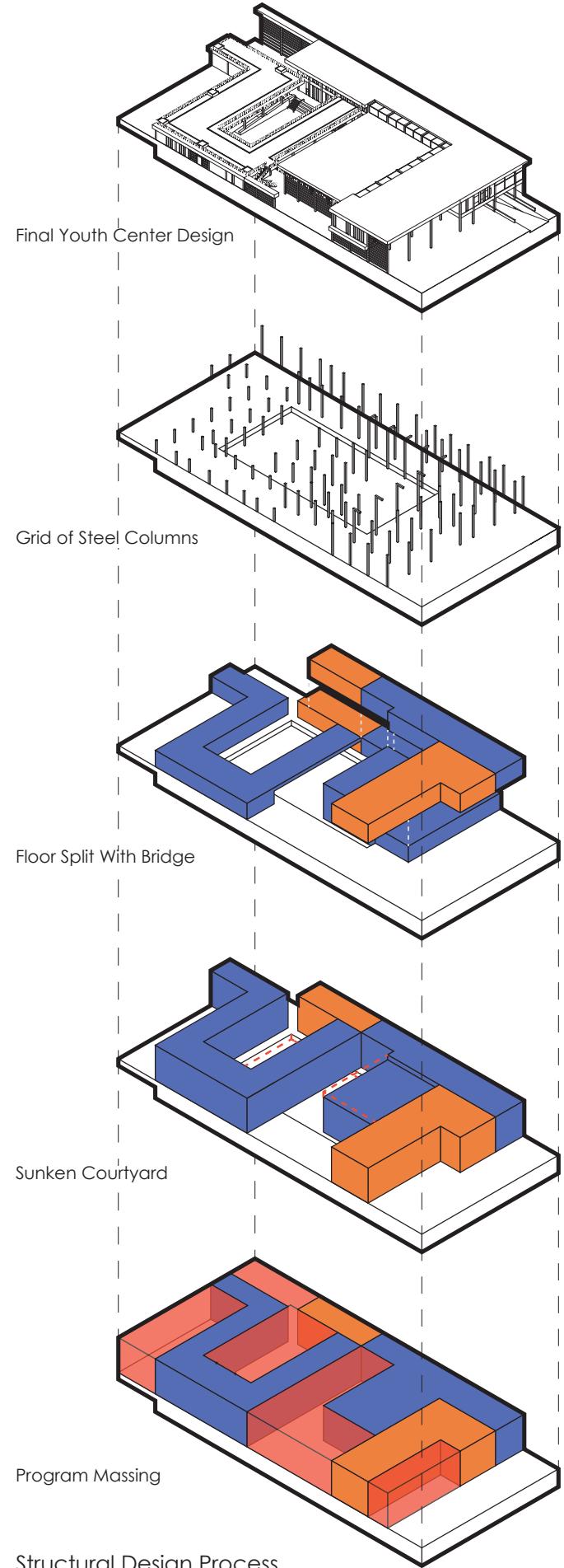
Concept Collage

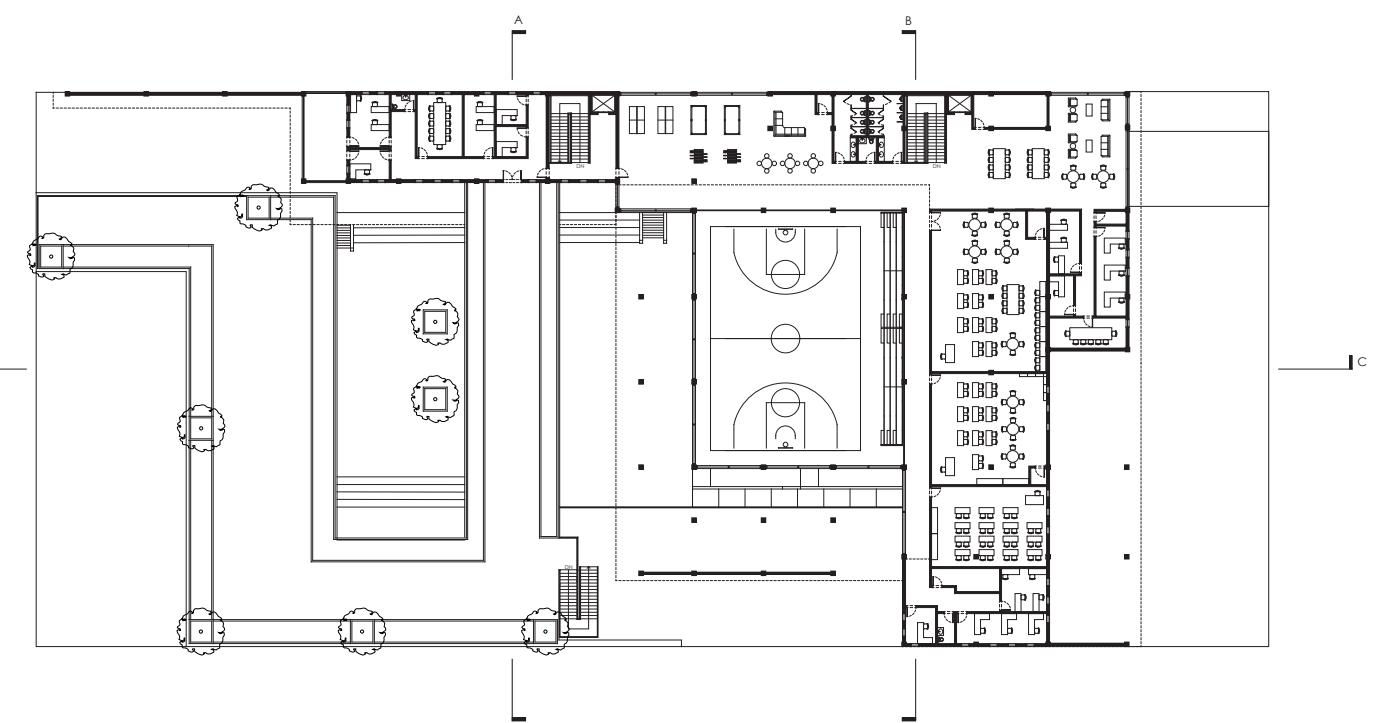


Recreational Program Locations

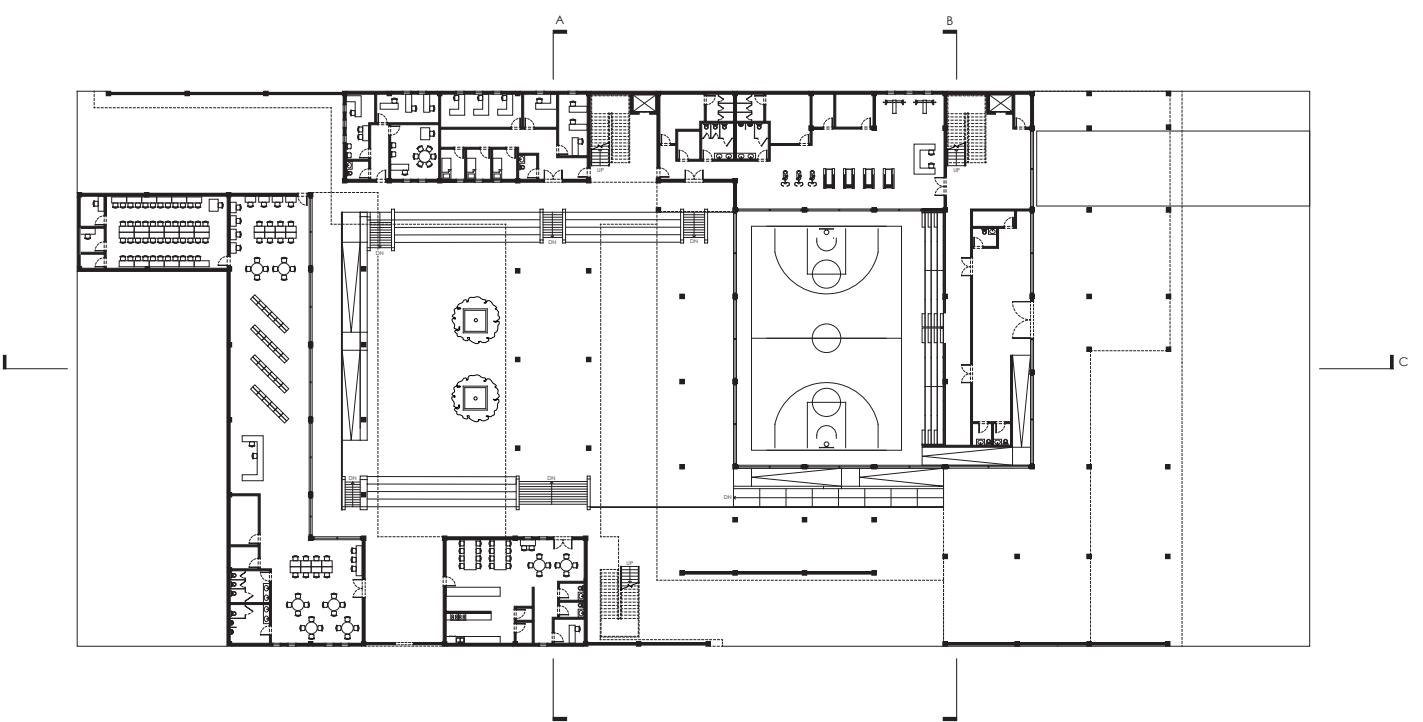


Beginning Concept Model





Second Floor Plan
Scale: 1/64"=1'-0"



First Floor Plan
Scale: 1/64"=1'-0"



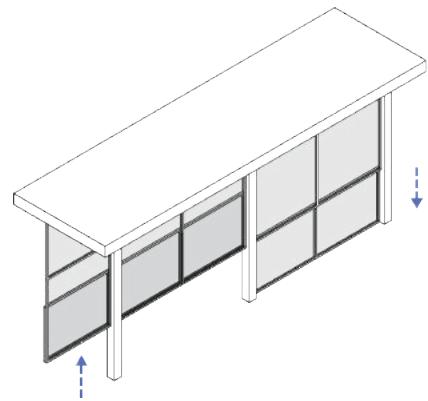
View of Gymnasium From Second Floor



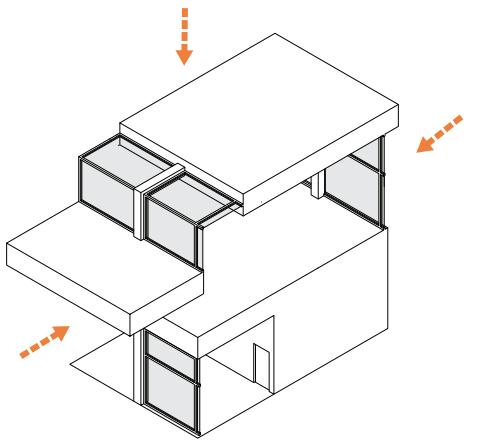
Physical Model



East Elevation
Scale: 1/16"=1'-0"



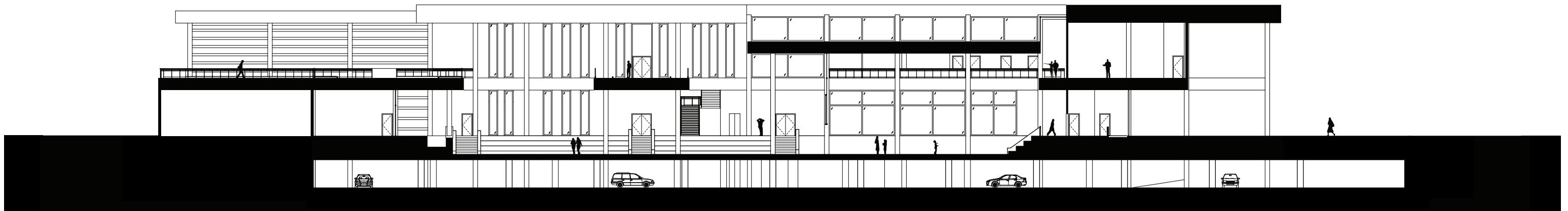
Gymnasium Door Mechanism



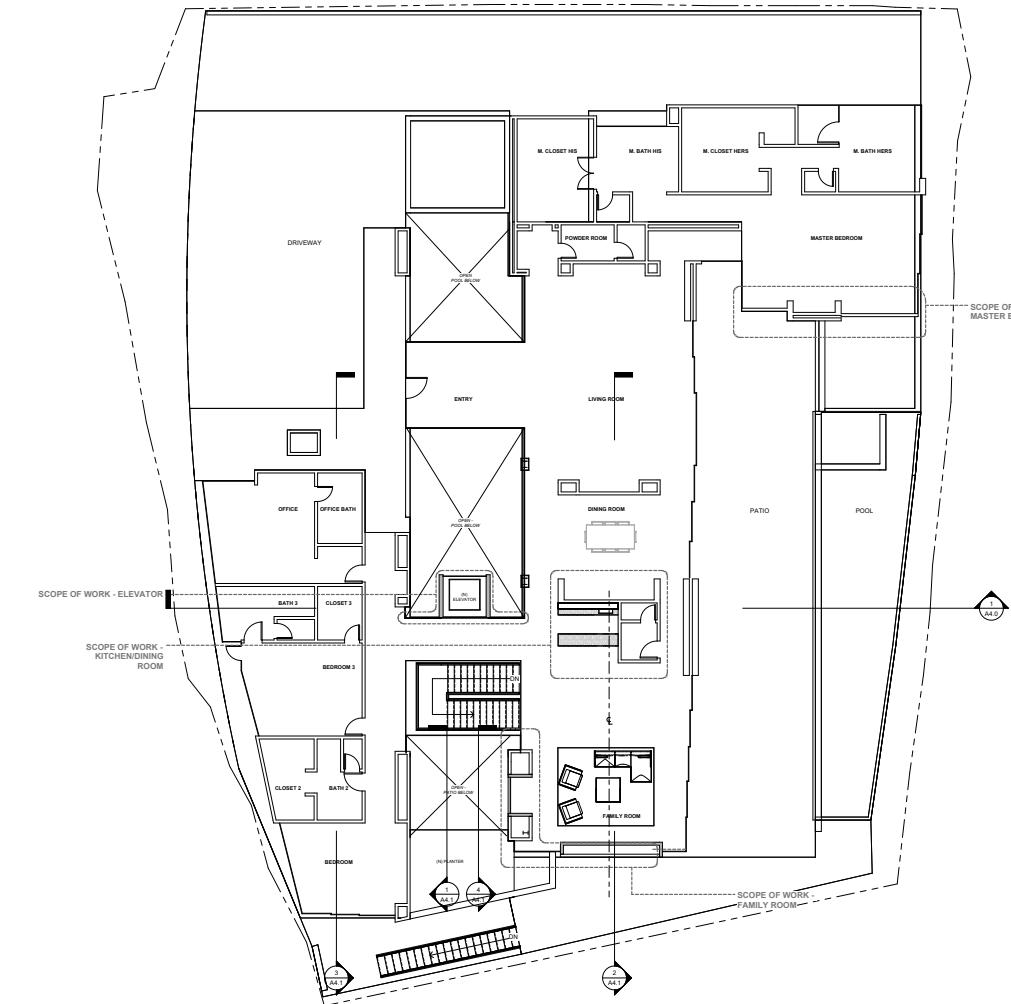
Mezzanine Sunlight Diagram



Library Courtyard



Section C
Scale: 1/32"=1'-0"

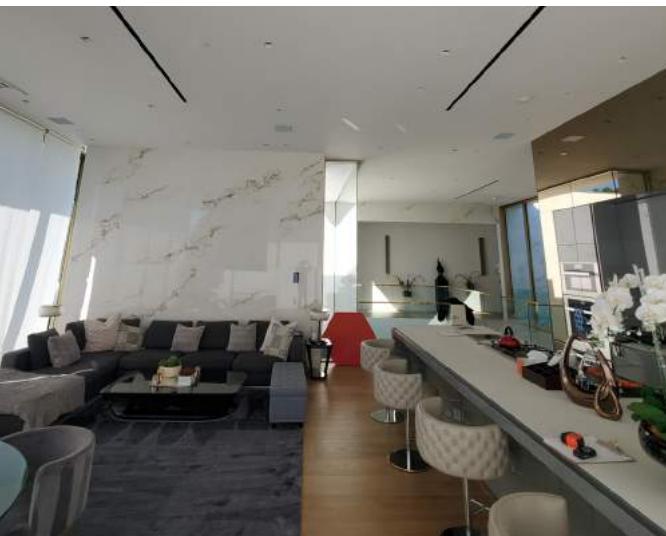


Proposed Second Floor Plan
Scale: 1/32"=1'-0"

07: Field Work (Beverly Hills)

INTERNSHIP | TALISSE CONSTRUCTION | CURRENT

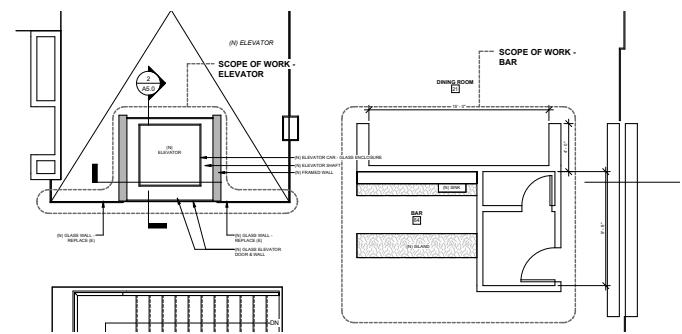
This remodel is planned for a two-story residential home in Beverly Hills. I helped draft these plans and set up the building model during my current internship at Talisse Construction, working in an office on a job site in Pasadena. The plans were made under the guidance of licensed architect, Nick Rosas and general contractor, Tony Talisse. For the remodel, a downstairs kitchen, upstairs bar, and elevator were designed.



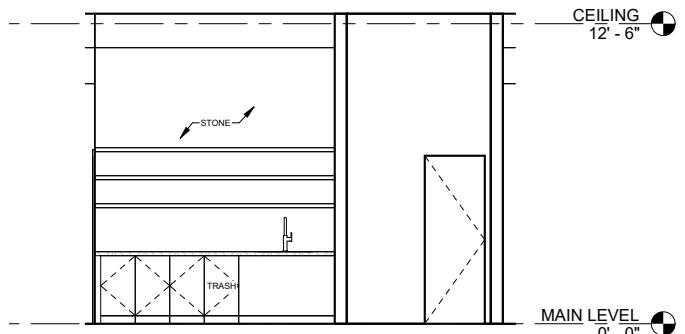
Current Upstairs Family Room



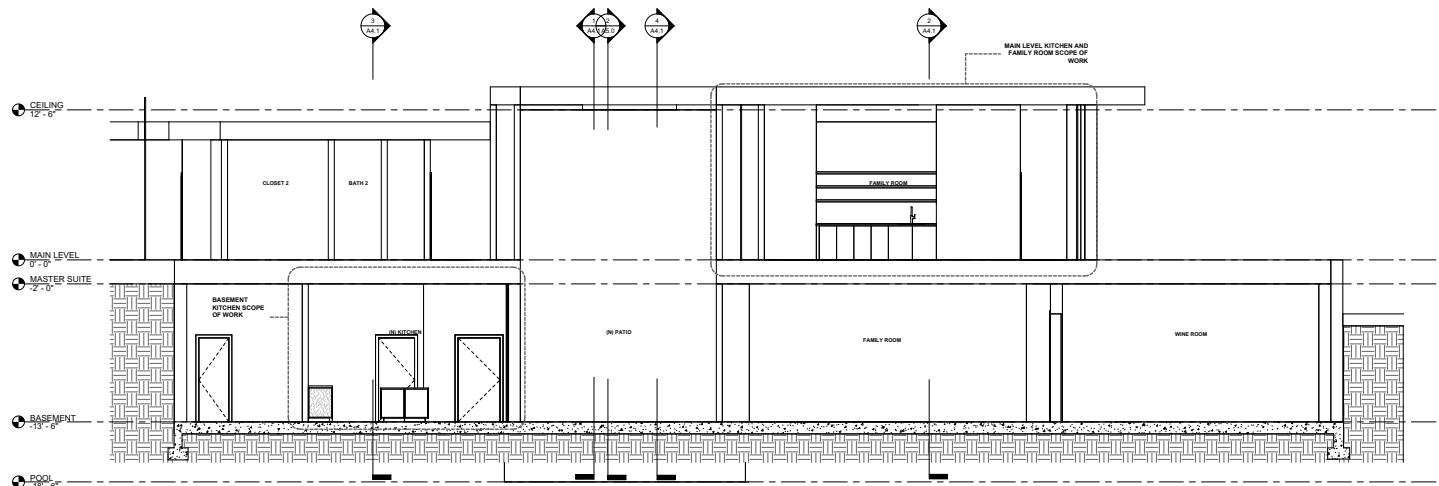
Proposed Upstairs Family Room and Bar



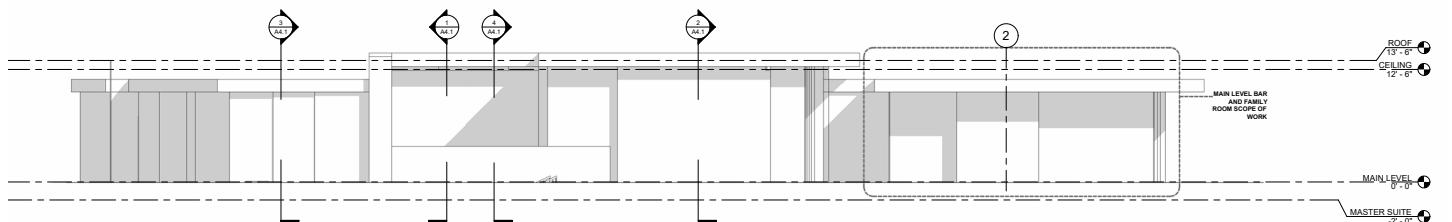
Proposed Enlarged Main Level Plan
Scale: 1/16"=1'-0"



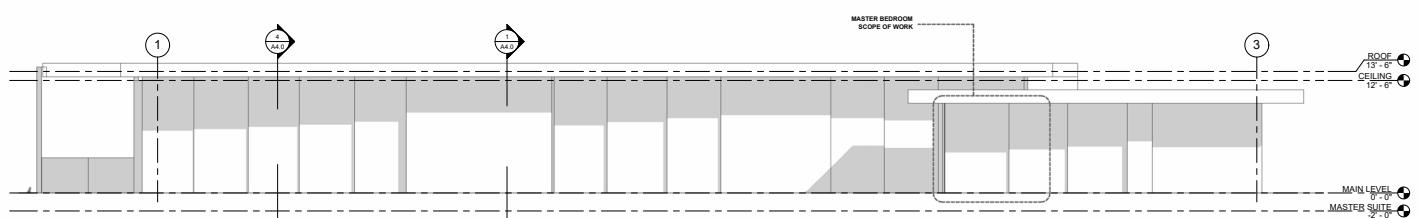
Bar North Interior Elevation
Scale: 1/8"=1'-0"



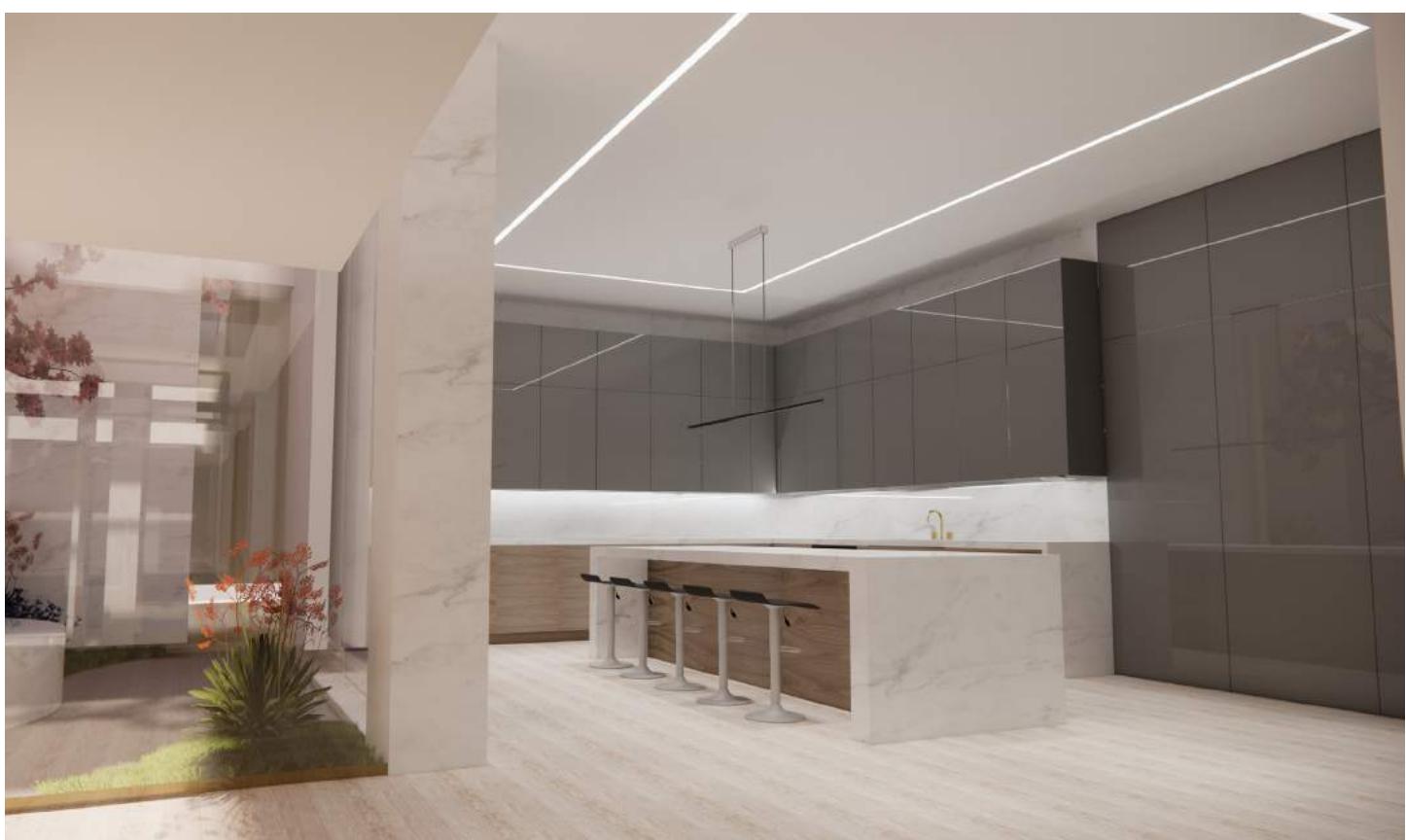
Proposed Section 3
Scale: 1/16"=1'-0"



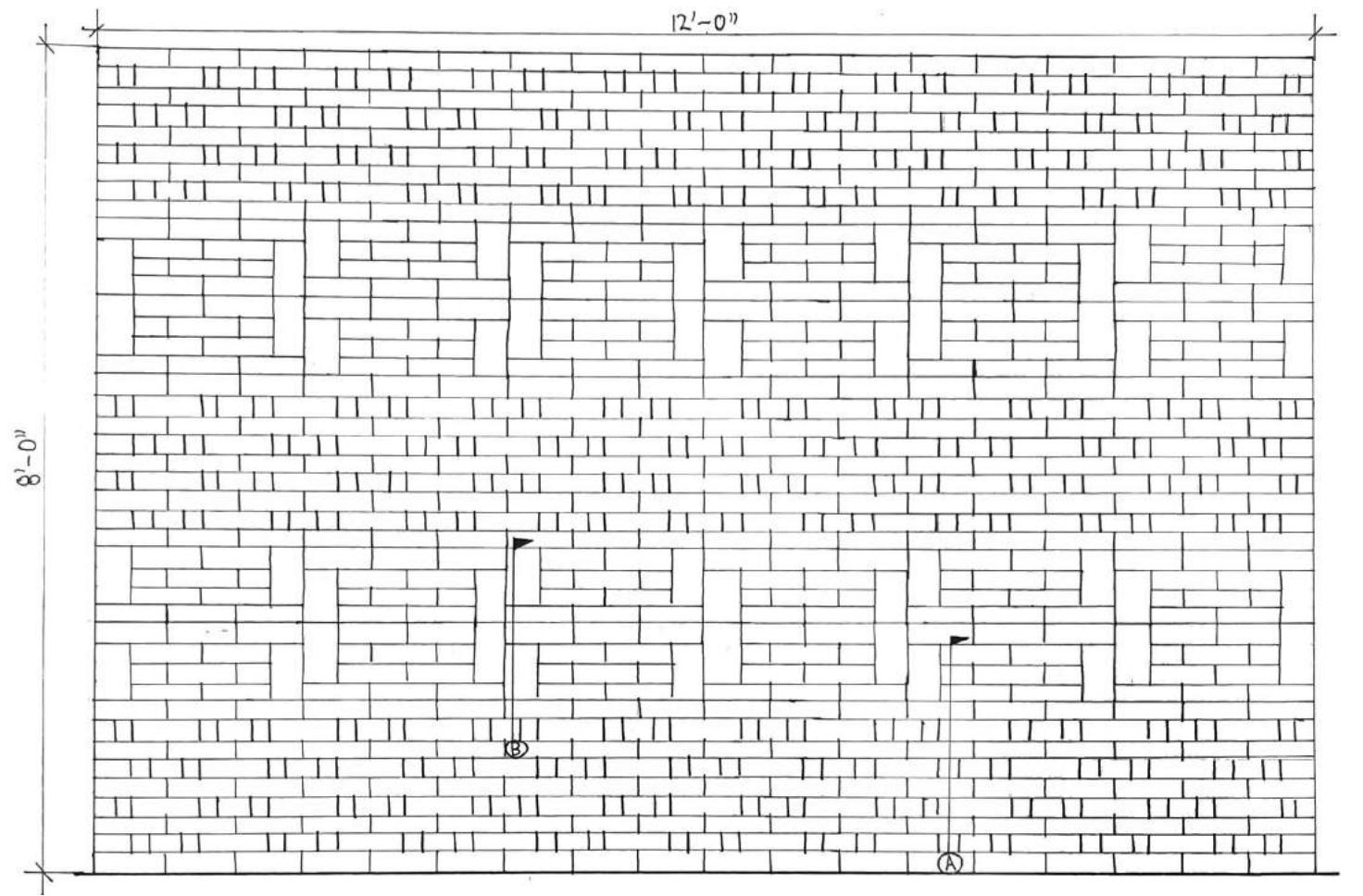
Proposed North Elevation
Scale: 3/64"=1'-0"



Proposed East Elevation
Scale: 3/64"=1'-0"



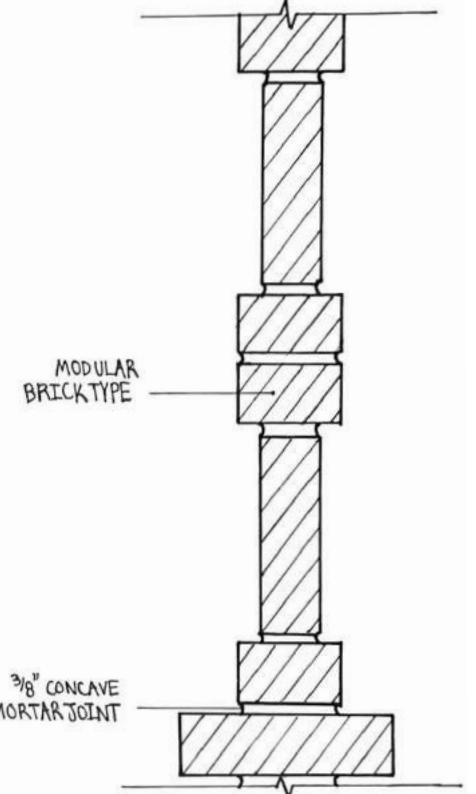
Proposed Downstairs Kitchen



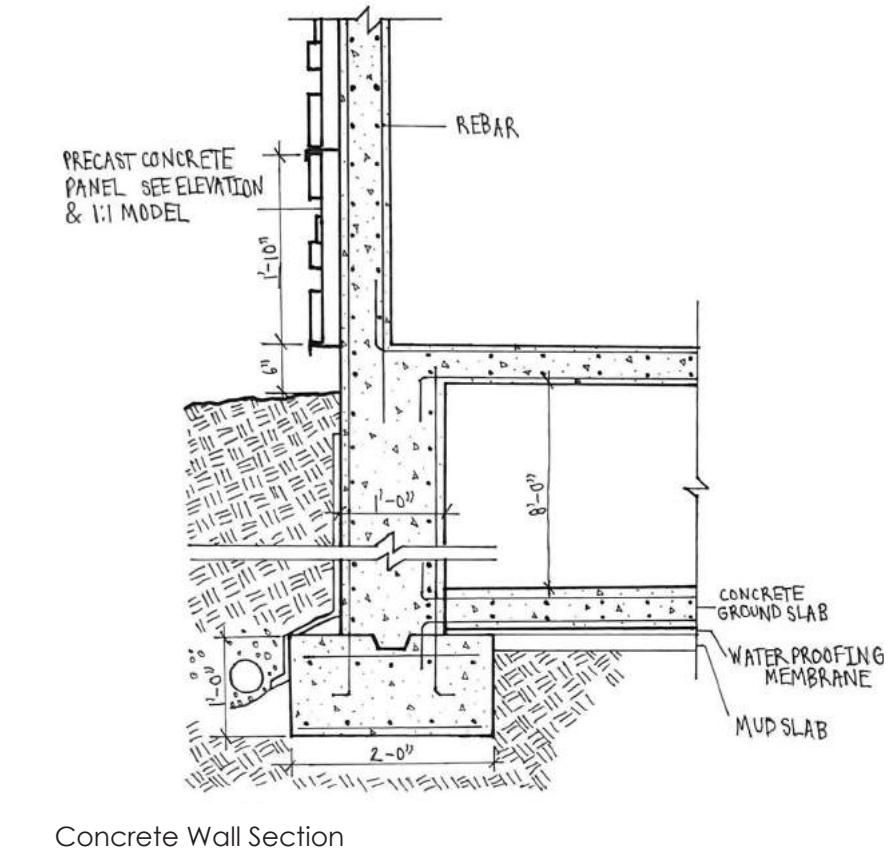
08A: ARTWORK

ART | CONSTRUCTION DRAWINGS | 2023

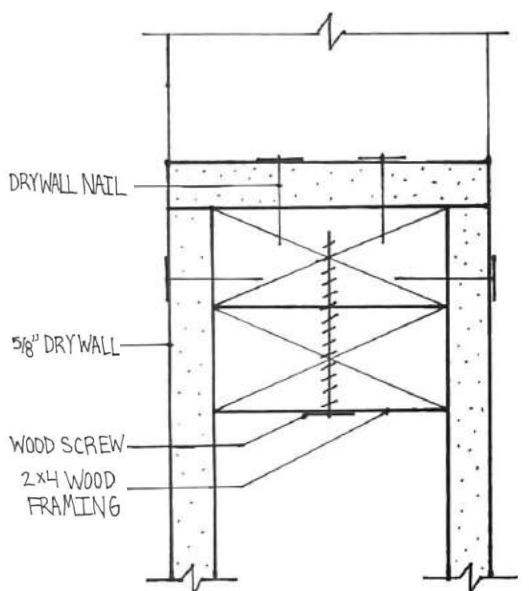
These drawings were made during a class focused on construction processes and materials. The materials studied were wood, masonry, and concrete. This gave a better understanding to certain construction drawings such as wall elevations, wall sections, and details.



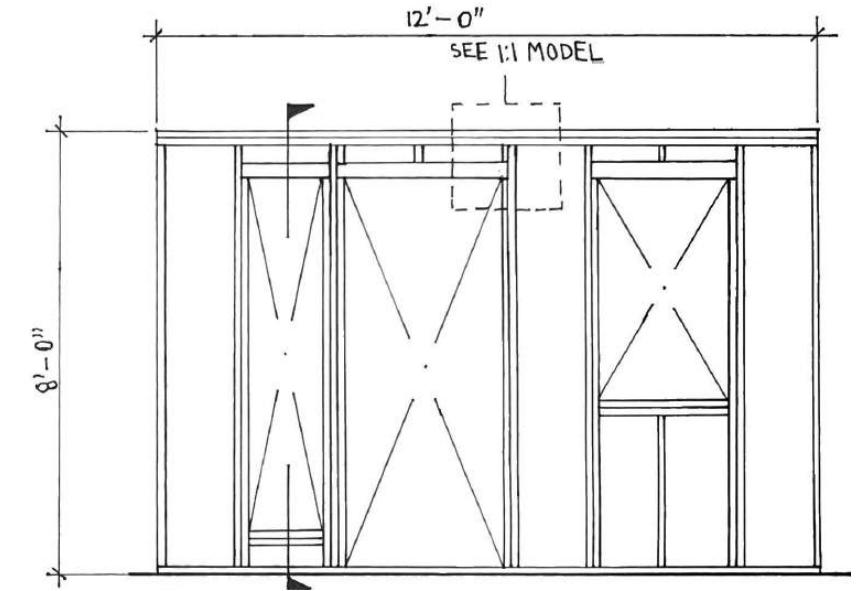
Brick Wall Section



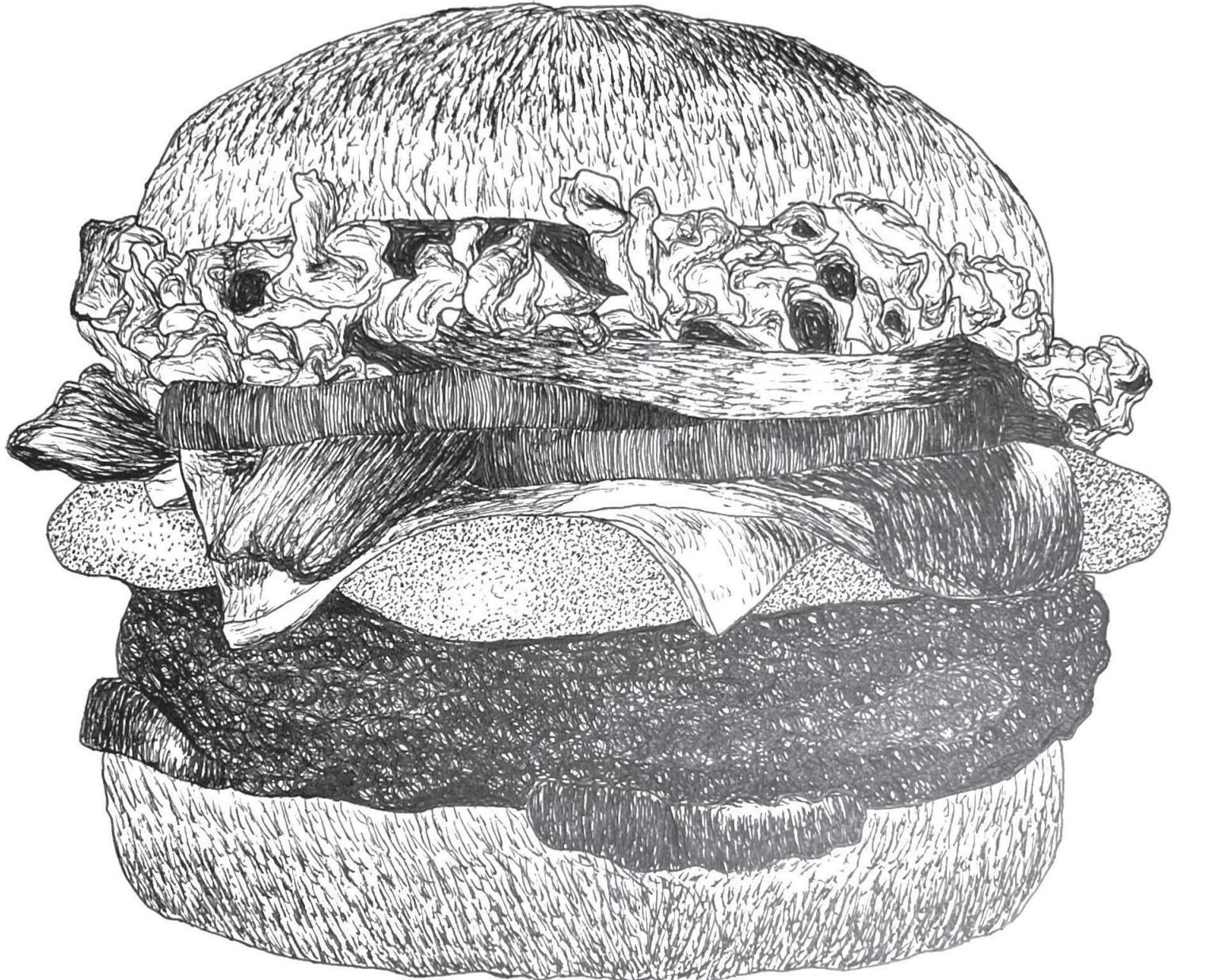
Concrete Wall Section



Wall Header Detail



Framing Elevation



Snow Leopard - 2023



Charcoal Portrait - 2022

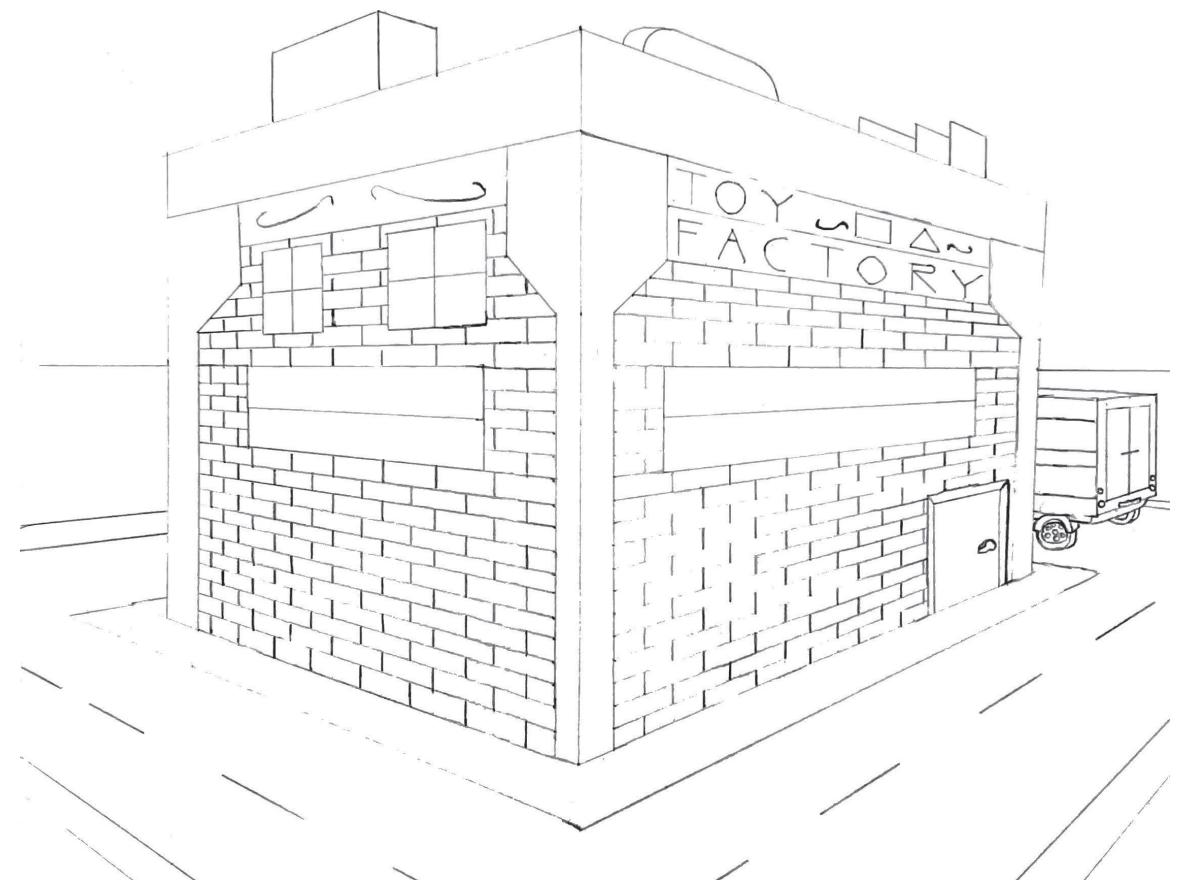


My Favorite Candy - 2021

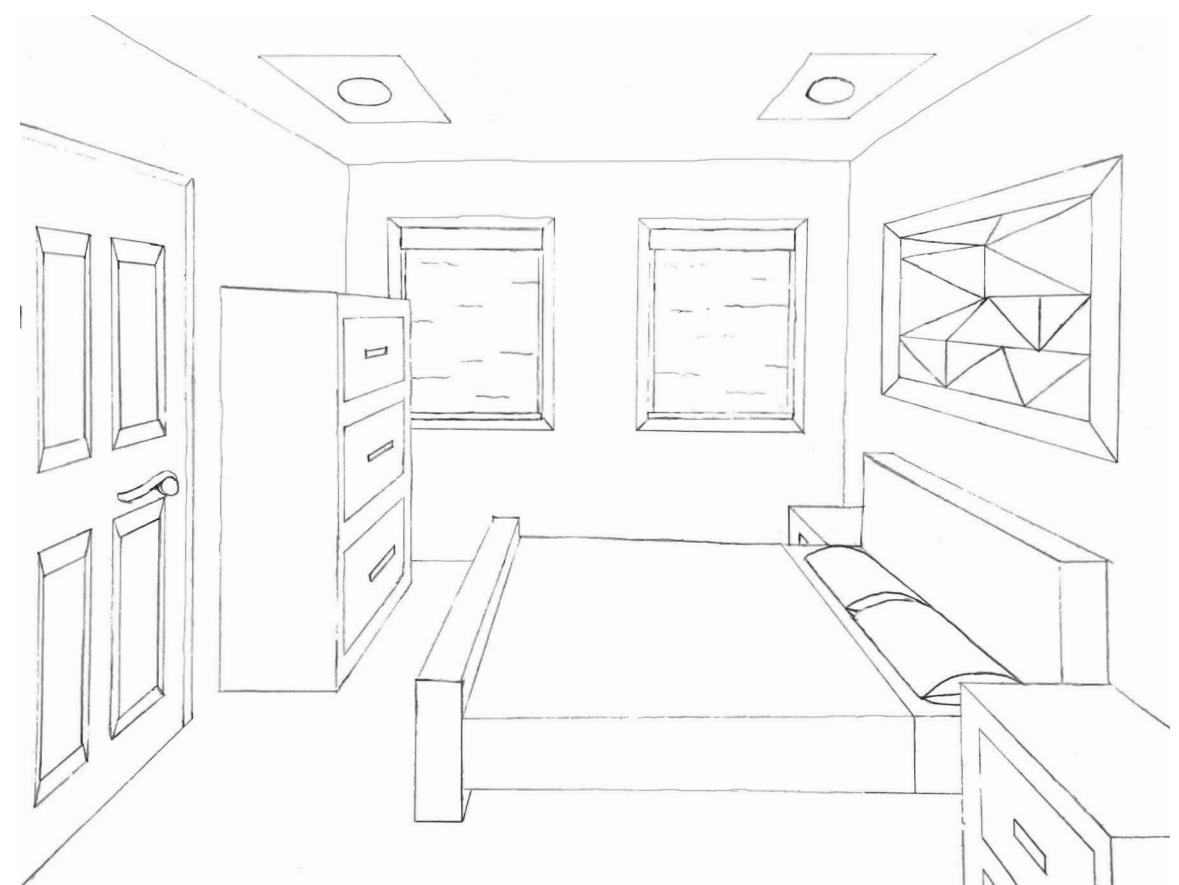
08B: ARTWORK

ART | DRAWINGS AND ARTWORK | 2021 - 2023

These pieces of artwork gave an understanding of different elements of art such as perspective, value, line, shape, space, form, texture, and color. They were made with various media such as colored pencils, Micron pens, charcoal, water color, and more. These projects were an introduction and form of experience for architectural drawings.



Toy Factory - 2022



Neat Bedroom - 2022



Road to My Architectural License - 2022