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Ava Lewis
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University of Colorado Boulder
Bachelors in Environmental Design, Architecture



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Hello

I am a recent graduate from the Environmental Design Program at the University of Colorado, Boulder. Originally from the Pacific Northwest, I have been living in Colorado since 2020. Throughout my studies, I developed a strong passion for exploring various software tools that enhance design in the built environment. Each program I learned has provided unique opportunities to innovate and refine projects, fueling my enthusiasm for new challenges. I am eager to continue growing as a designer, tackling complex projects, and expanding my skill set in both design and technology.



Sunset View Pavillion 01



FOOTHILLS COMMUNITY CENTER 02



BMoCA Museum 03



The Domes 04



The Sorority 05



01

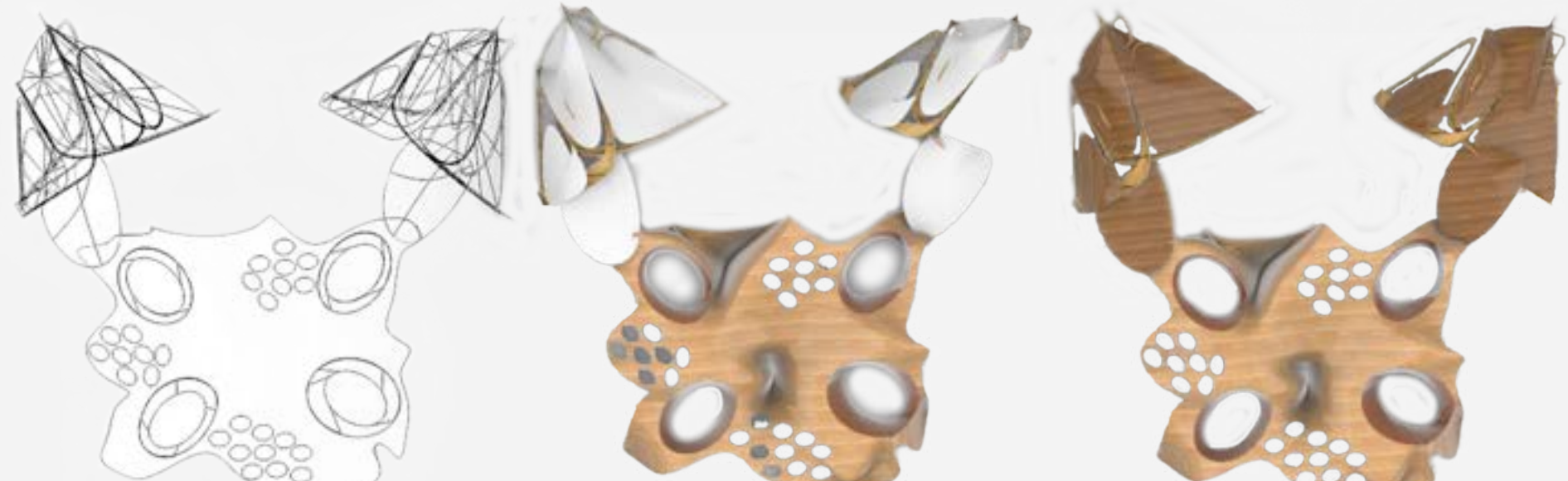
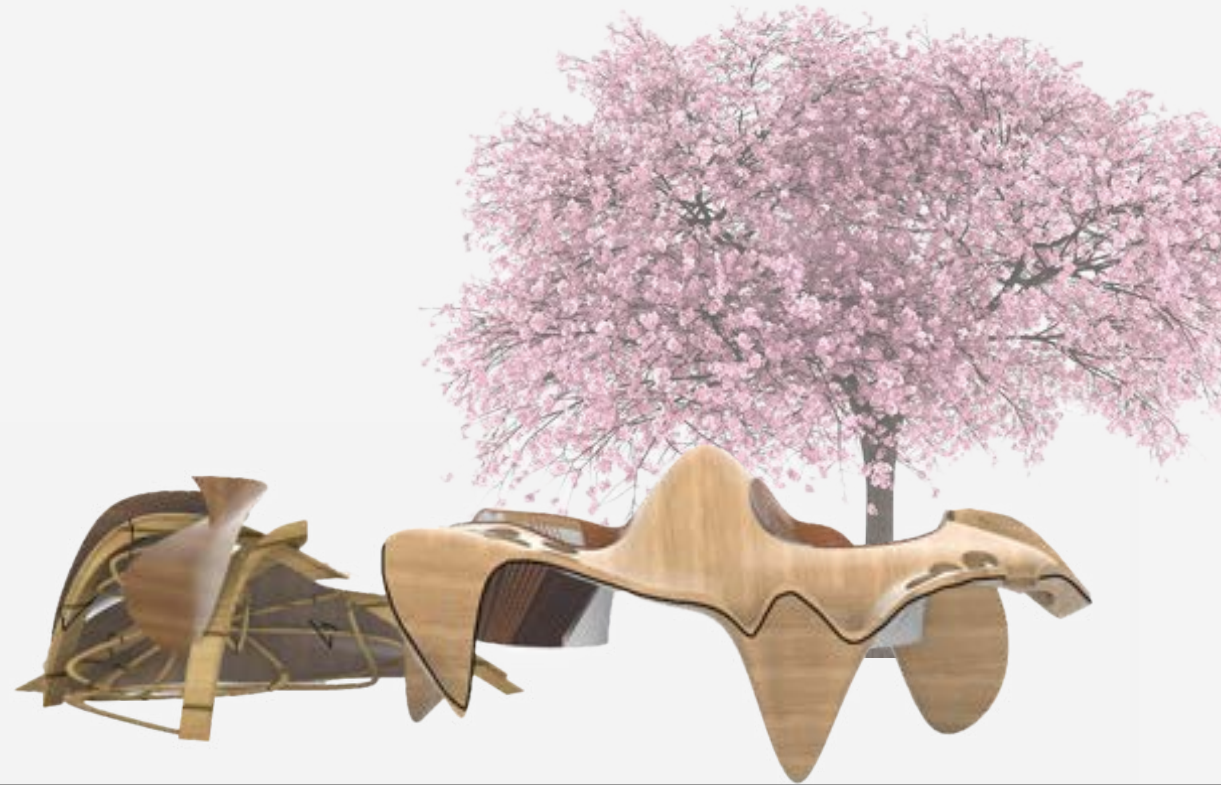
Sunset View Pavillion

Course: ENVD 2352: Rhino 3D | Architecture Software course

Instructor: Marcel De Lange

Concept

Sunset View Pavillion is a beautiful open space in one of Croatias' National Parks, called The Northern Velebit National Park, featuring an interesting landscape consisting of dense forests, sedimentary rock, and rolling grasslands. The Sunset View Pavillion offers a surprise respite in a natural grassy area within the National Park, surrounded by hundreds of trees, and beckoning its visitors to stop, rest and relax.



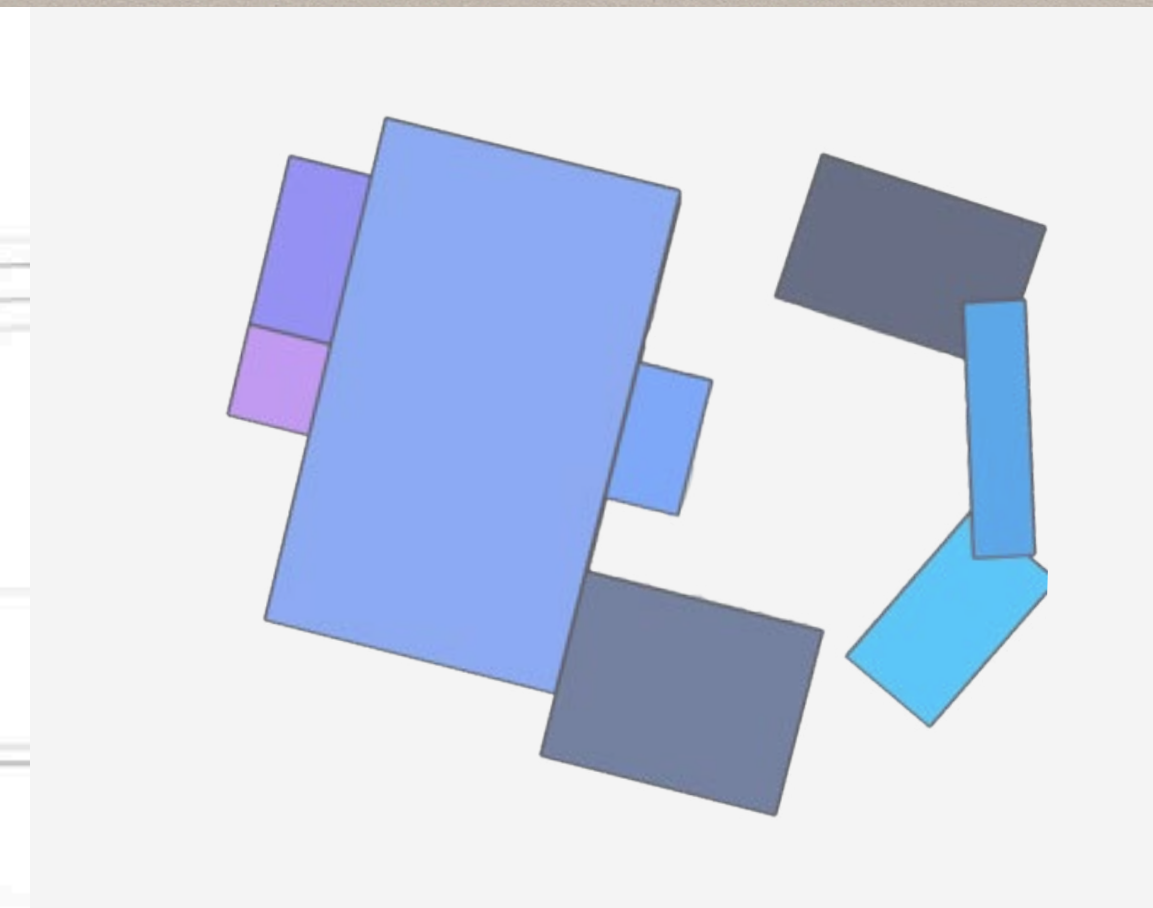
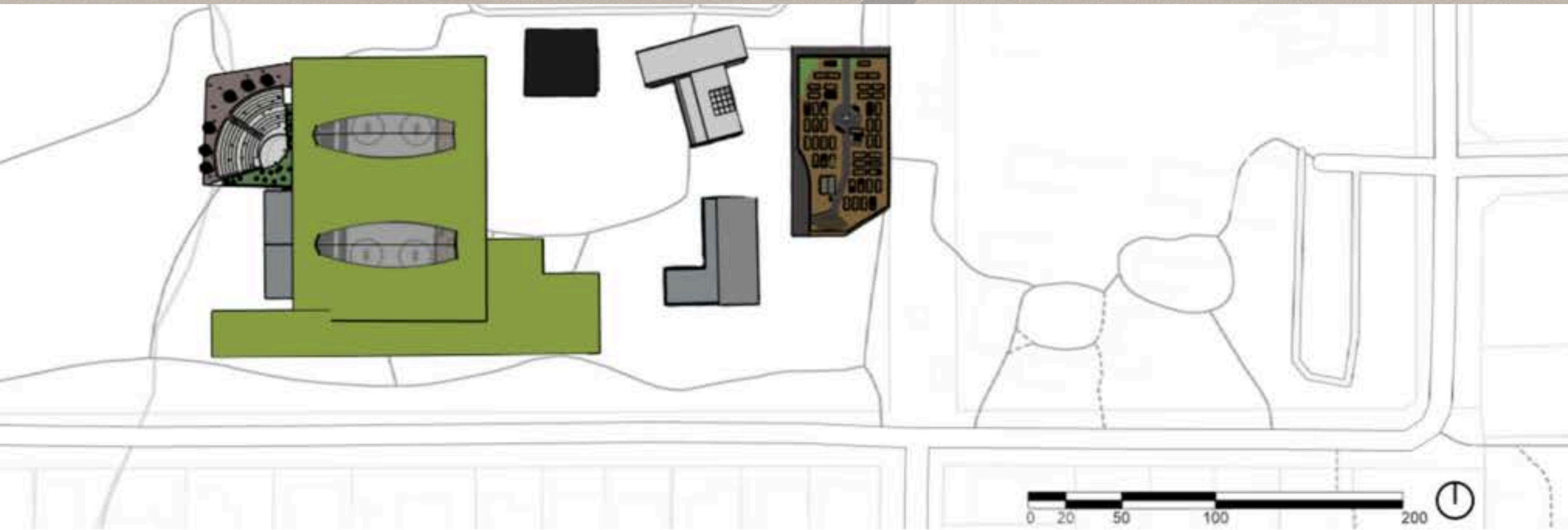
The selected wood varieties for the pavilion seamlessly complement the natural surroundings, enhancing the structure's organic aesthetic. These wood materials are not only strong but also versatile, with varying degrees of flexibility that allow for the thin shade covers featured on the two smaller models flanking the main structure. Designed with sustainability in mind, the pavilion has no negative environmental impact. Minimal landscaping will be required around the structure to control weeds and prevent unwanted brush from encroaching on the natural grassland floor.



FOOTHILLS COMMUNITY CENTER

Course: 4100 | Architecture Studio
Software: Rhino, Revit, and Sketchup
Instructor: Ross Barney

02





Welcome to 800 Cherry Ave, the site of the Foothills Community Center, and forthcoming architectural venture! The commitment to redeeming communal spaces at the intersection of the Boulder foothills enriches this area with community inclusion and versatile design. With its prime location nestled amidst the picturesque Boulder foothills, the Foothills Community Center serves as a beacon of community engagement and connectivity. From its diverse array of programs and events to its welcoming atmosphere, it will be a beloved gathering place for residents of all ages. Furthermore, the commitment to incorporating principles of equality, economy, and engagement into the architectural venture speaks volumes about the center's dedication to serving its community in a holistic and inclusive manner. By prioritizing equality, the center ensures that all residents have access to its facilities and programs, regardless of background or socioeconomic status. This fosters a sense of belonging and ensures that everyone can benefit from the center's offerings.



The prospect of a new architectural venture to redeem communal spaces at this intersection is incredibly promising. The potential for innovation and creativity in designing a space that not only meets the needs of the community but also enhances the natural beauty of its surroundings.

The importance of communal spaces in fostering connection and belonging are essential to how this architectural venture will shape the future of the Foothills Community Center. Whether through innovative design elements, sustainable practices, or thoughtful integration with the surrounding landscape, a new standard for communal spaces in the Boulder foothills will be established.





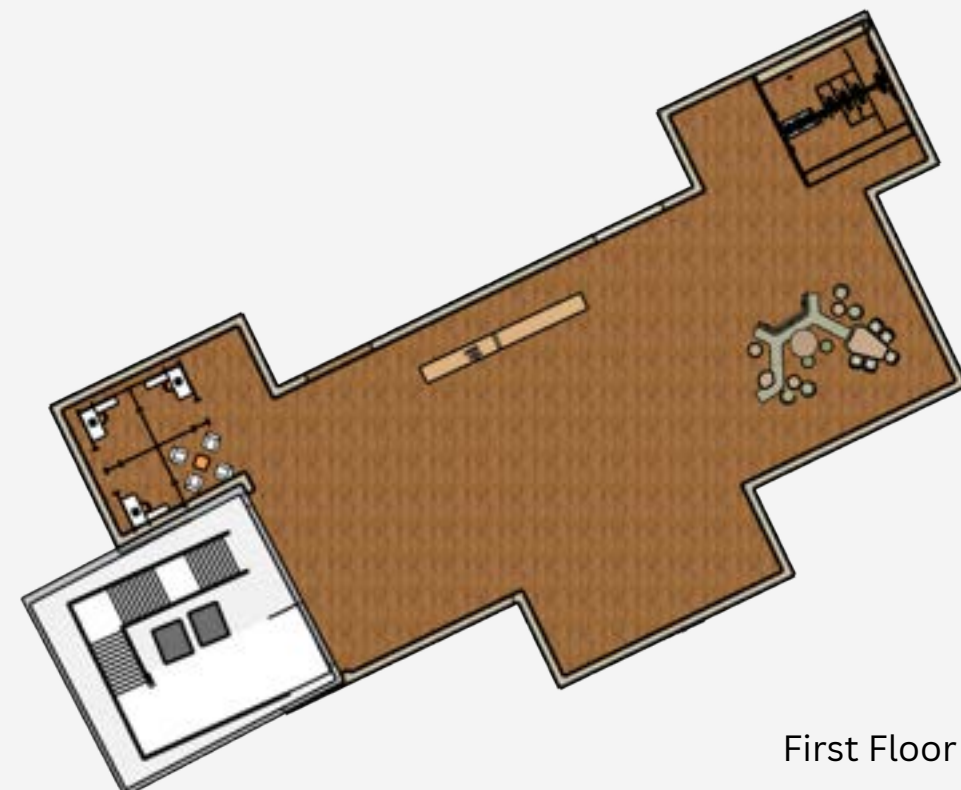
BMoCA Museum

Course: 3100 | Architecture Studio | Sketchup, Rhino, Revit

Instructor: Ross Barney



Second Floor



First Floor



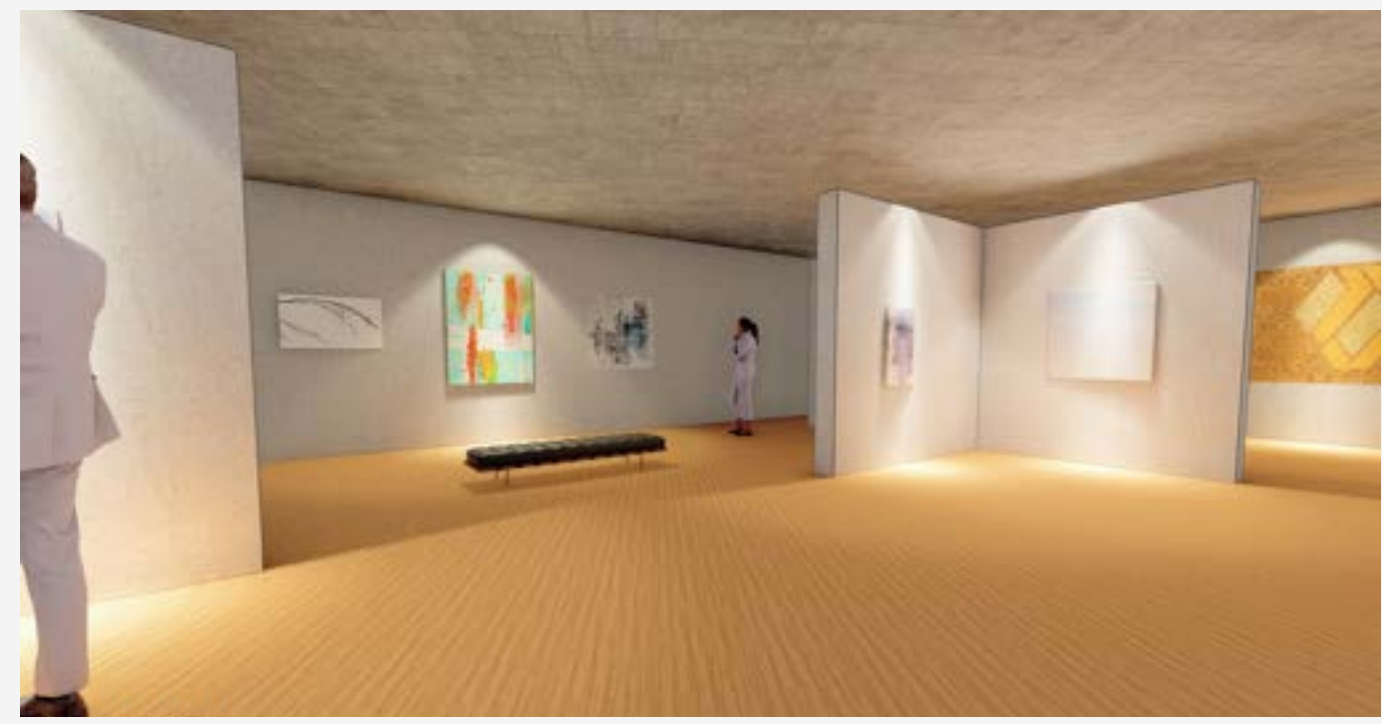


The potential site for the BMoCA in North Boulder is located on a parcel of land bordered by Violet Avenue, Broadway, and 10th Street. The new museum will serve as the cultural anchor for a mixed-use "creative campus" envisioned by Boulder-based Emerald Development. This campus is planned to include inclusive spaces for artist studios, housing, retail, and open public areas, fostering a vibrant community centered around art and creativity.





Active solar power harnesses sunlight, reducing emissions and providing financial benefits through energy savings. Green concrete is another sustainable material used in the design, helping to reduce carbon emissions. Green roofs and rain gardens are also key features, significantly reducing rainwater runoff from impervious surfaces. In addition to managing water, green roofs help lower building energy usage, reduce noise levels, and extend the durability and lifespan of the roof compared to conventional systems.





04

The Domes

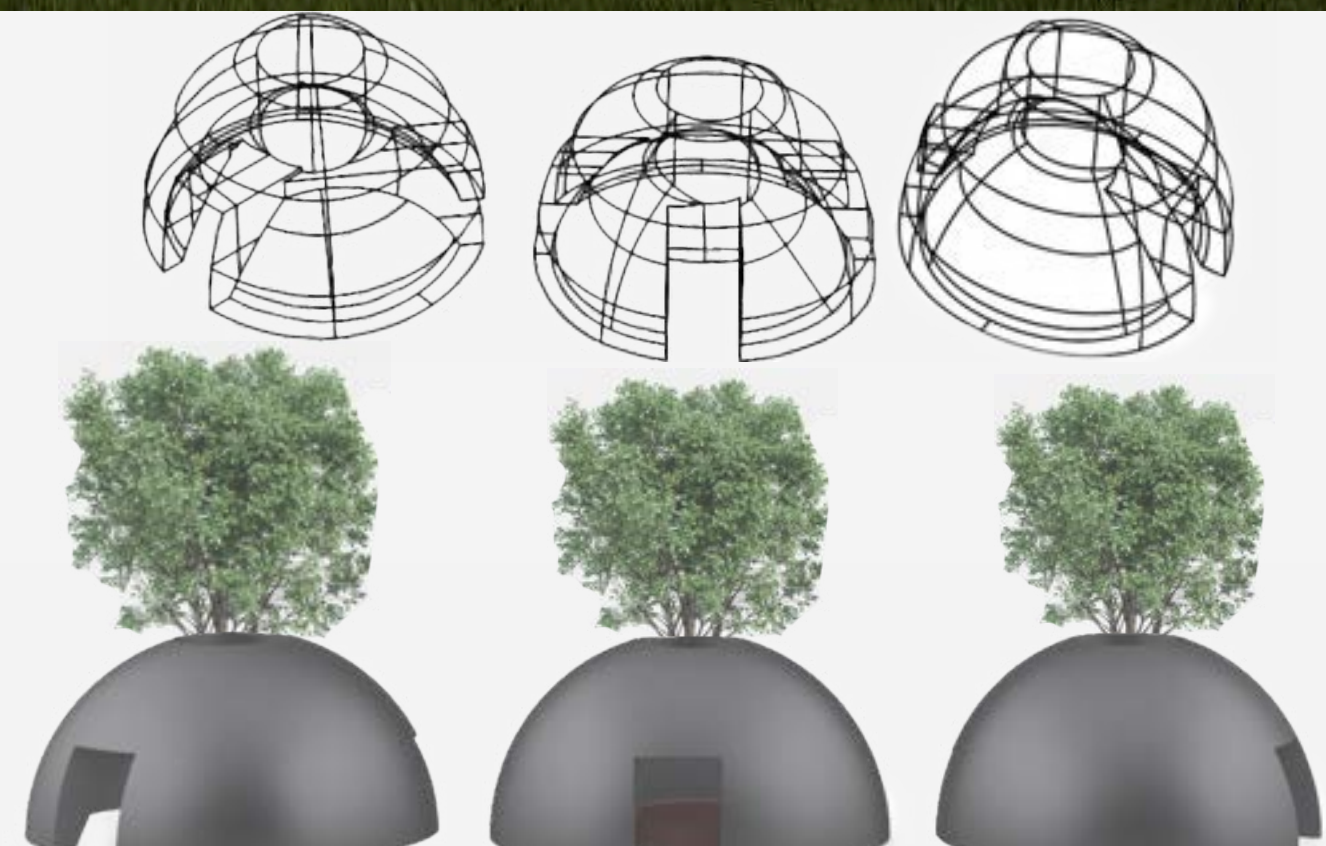
Ava Lewis Blomimicry

Course: | ARCH 2100 Architecture Studio I Rhino

Instructor: Lei Shi



The Domes exemplify biomimicry, creating an oasis-like environment within a dome structure. This design integrates a natural setting with a shaded, tranquil space for relaxation. Constructed from textured concrete, the domes have a unique, organic appearance. Inside, they feature a hollowed-out seating area surrounded by trees, with an opening at the top to accommodate tree growth. These roof openings also allow natural light to flood the interior, enhancing the serene atmosphere within the dome.



The Sorority

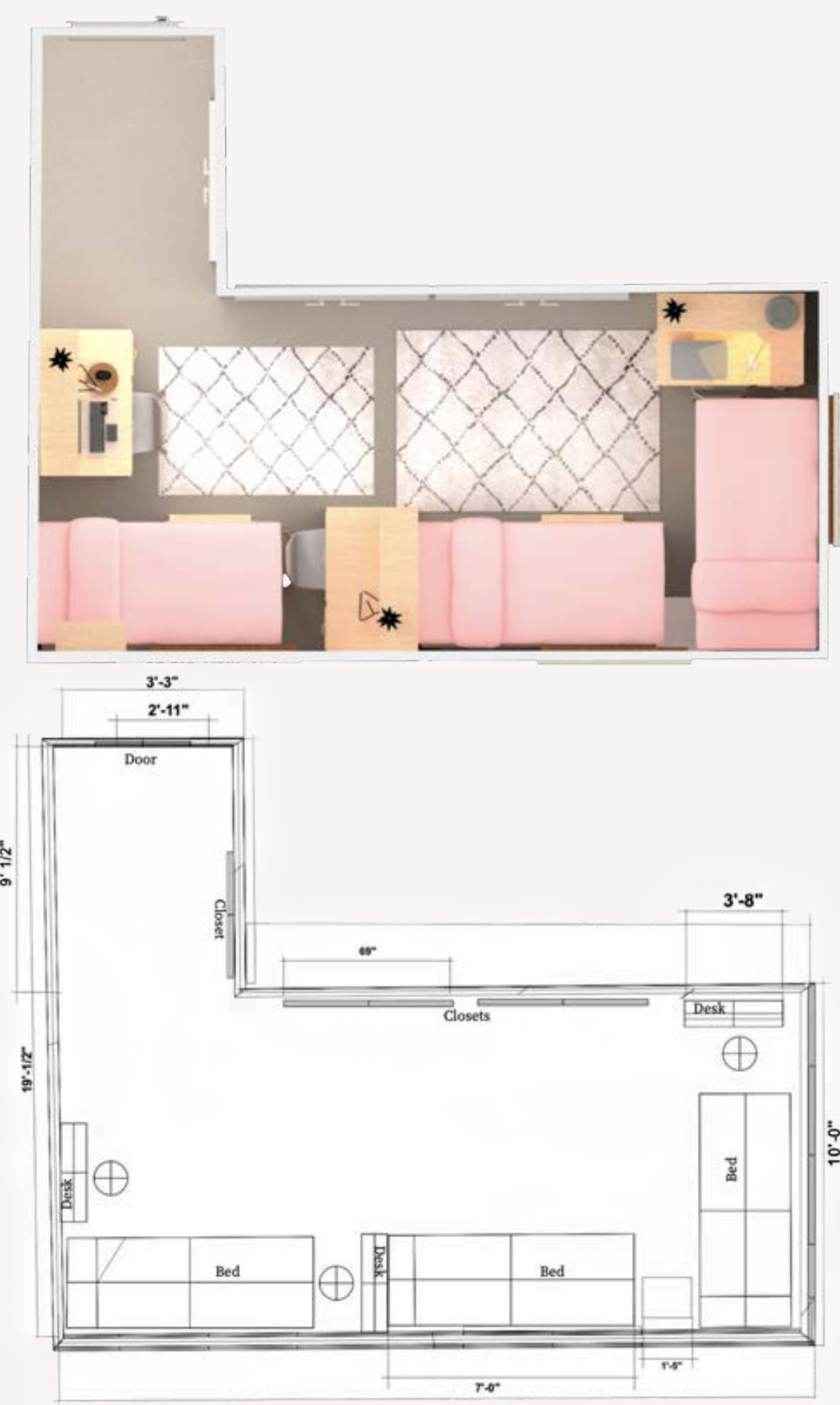
Course: ENVD 2352-001 | Digital Applications 3D (RHINO)

Instructor: Marcel De Lange



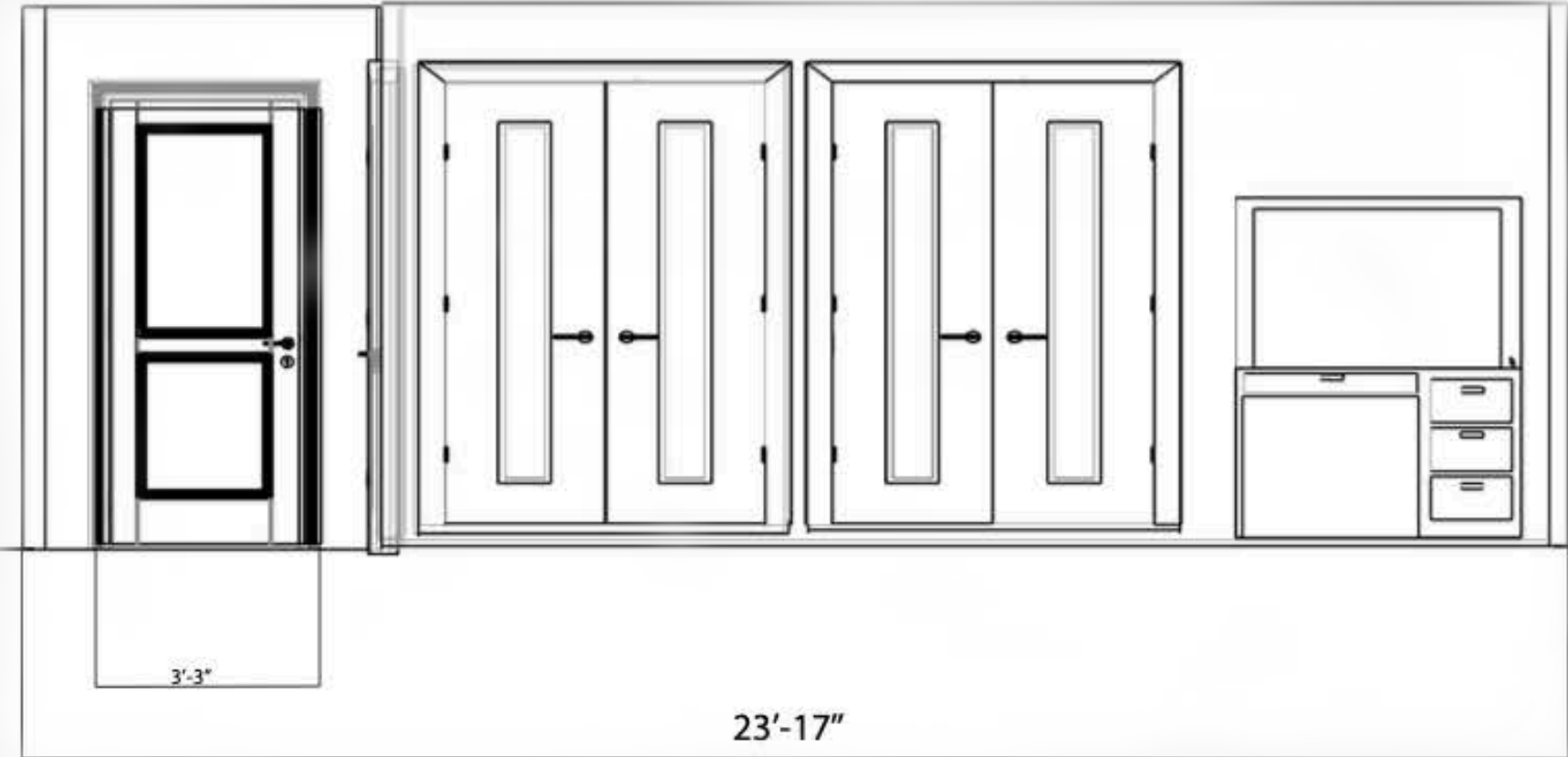


Students were tasked with photographing our college bedroom, capturing details such as furniture, artwork, and other interior elements. Using these photos as reference, we utilized Rhino software to digitally recreate the space in 3D, bringing the room to life with precise modeling and realistic details.



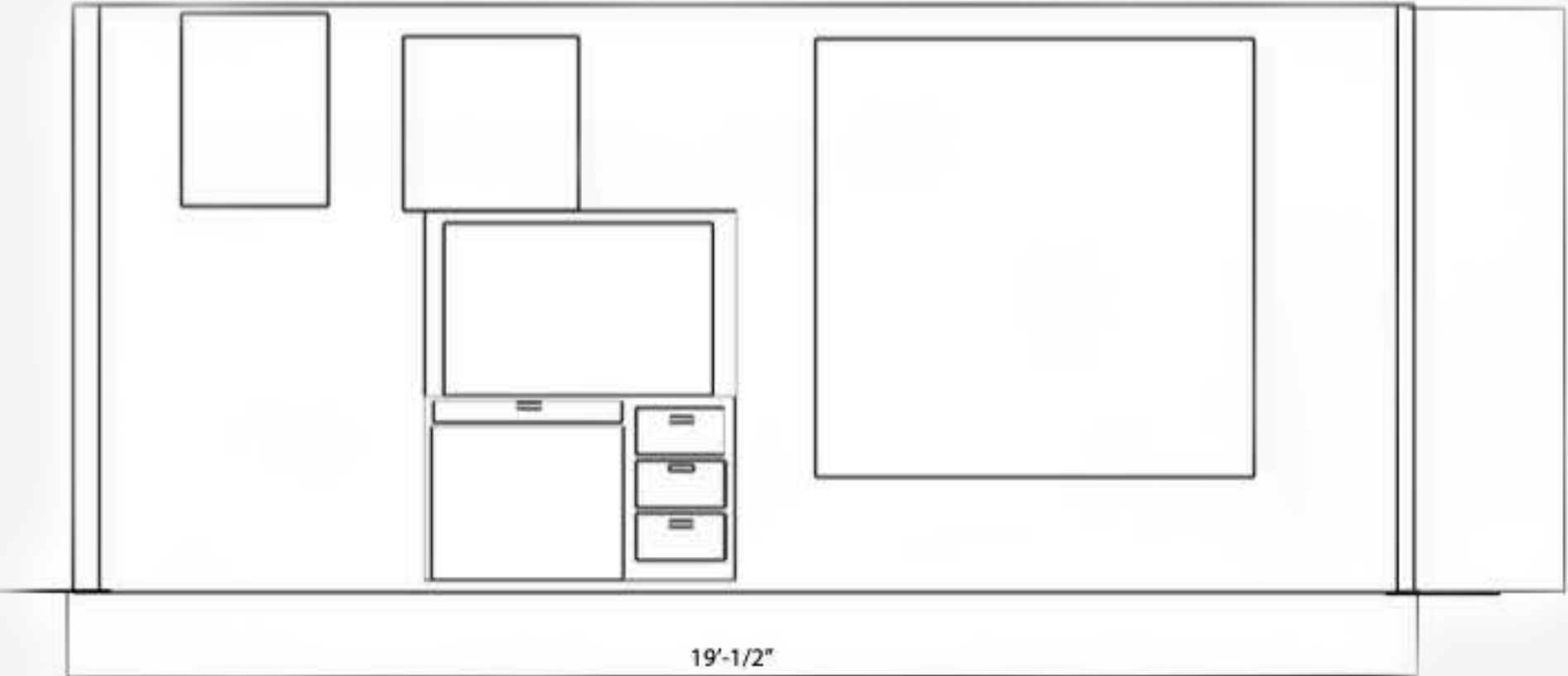
North Elevation

Scale: 1/2"=1'0"



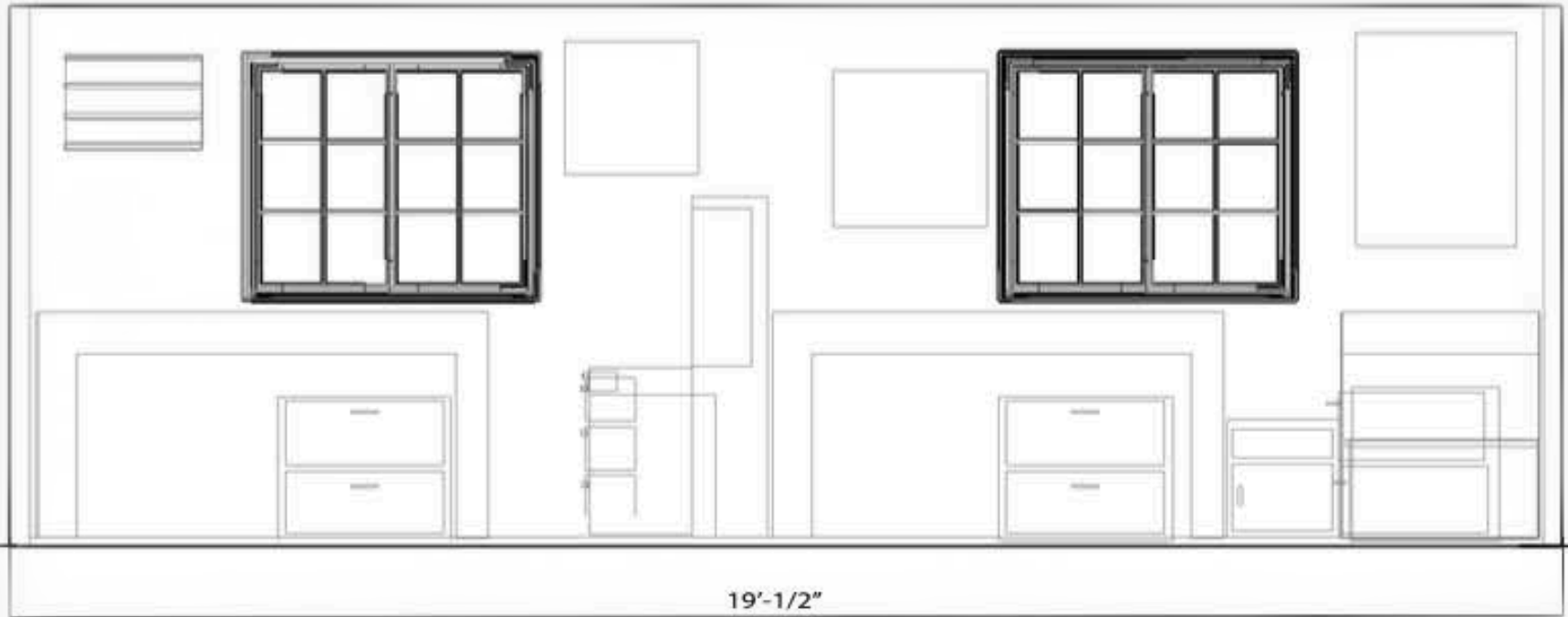
West Elevation

Scale: 1/2"=1'0"



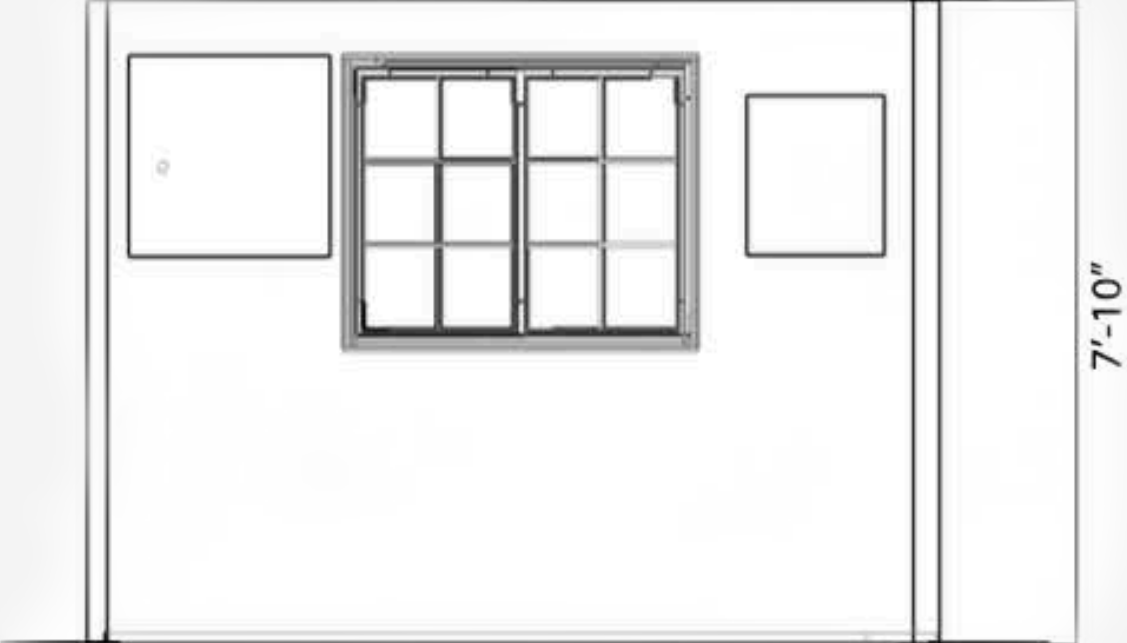
South Elevation

Scale: 1/2"=1'0"



East Elevation

Scale: 1/2"=1'0"





Thank You