Isaiah Ho

5th year | virginia tech architecture portfolio

photography graphic design



(864) 593-0847 iho9295@vt.edu

Blacksburg, VA 24060

For a digital portfolio/website: isaiah.s-neon.xyz

College Address 222 Pheasant Run Dr.

Permanent Address 6 Berwyn Court Simpsonville, SC 29681

	alexandria museum of histories a museum to remember the many voices that comprise its rich history
	the core: a new heart for the community gilmer neighborhood social justice center
table of contents	push and pull blacksburg high school research center for climate change and sea level rise
	outreach and education facility catawba sustainability center
	third year architecture competition merit award winner
	reinterpreting art an exercise in using art as a means to design architecture

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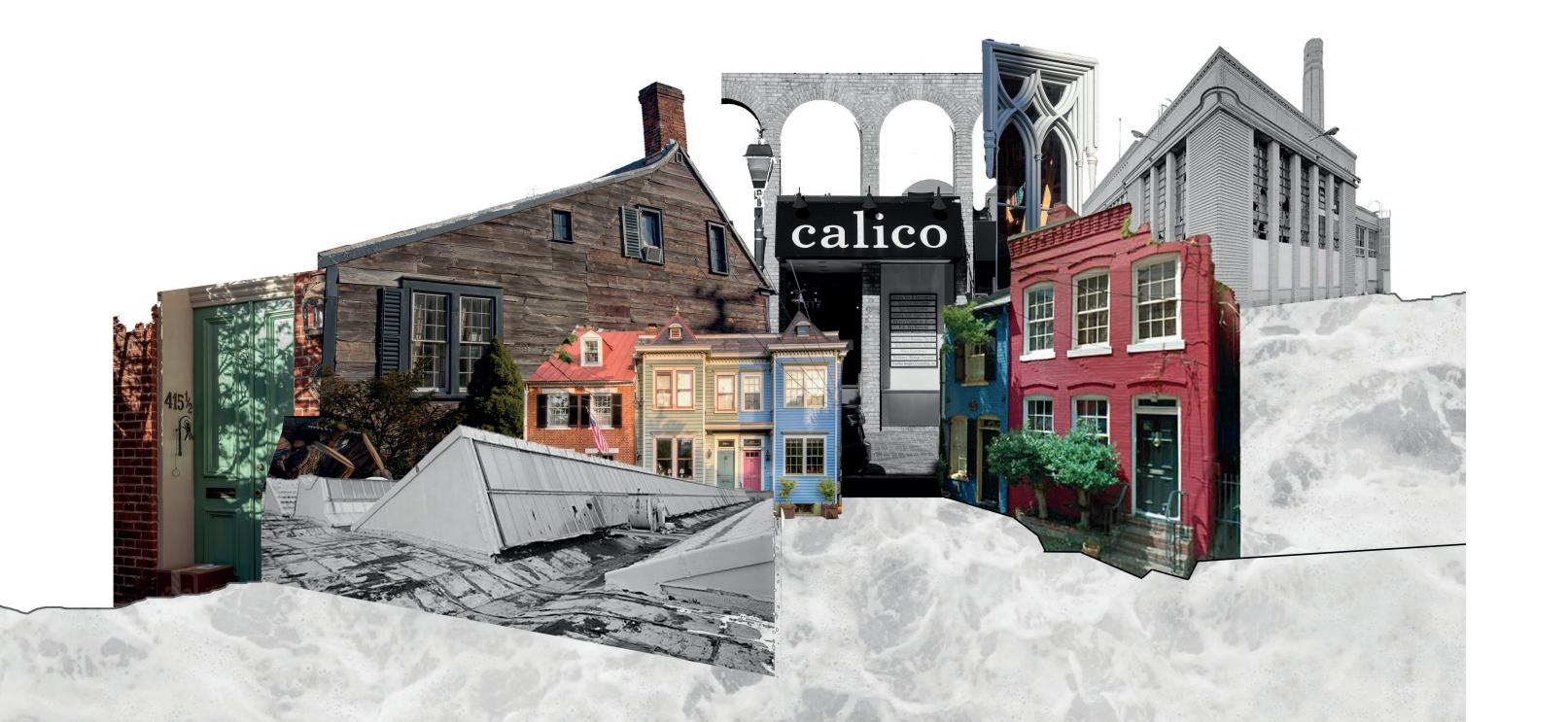
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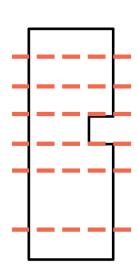
photography selected works

graphic design selected works

alexandria museum of histories

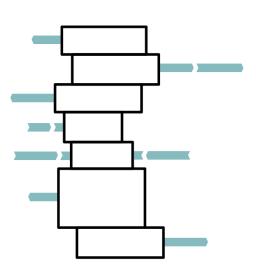
a museum to remember the many voices that comprise alexandria's rich history Alexandria, VA





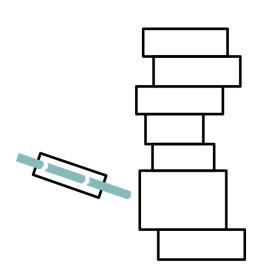


create divisions that mimic the width of a row house and establish party walls



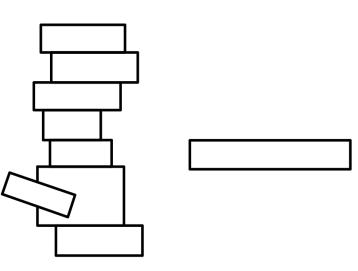
2 push and pull

following the flow of the water of the potomac, shift the new forms east and west



3 pierce and welcome

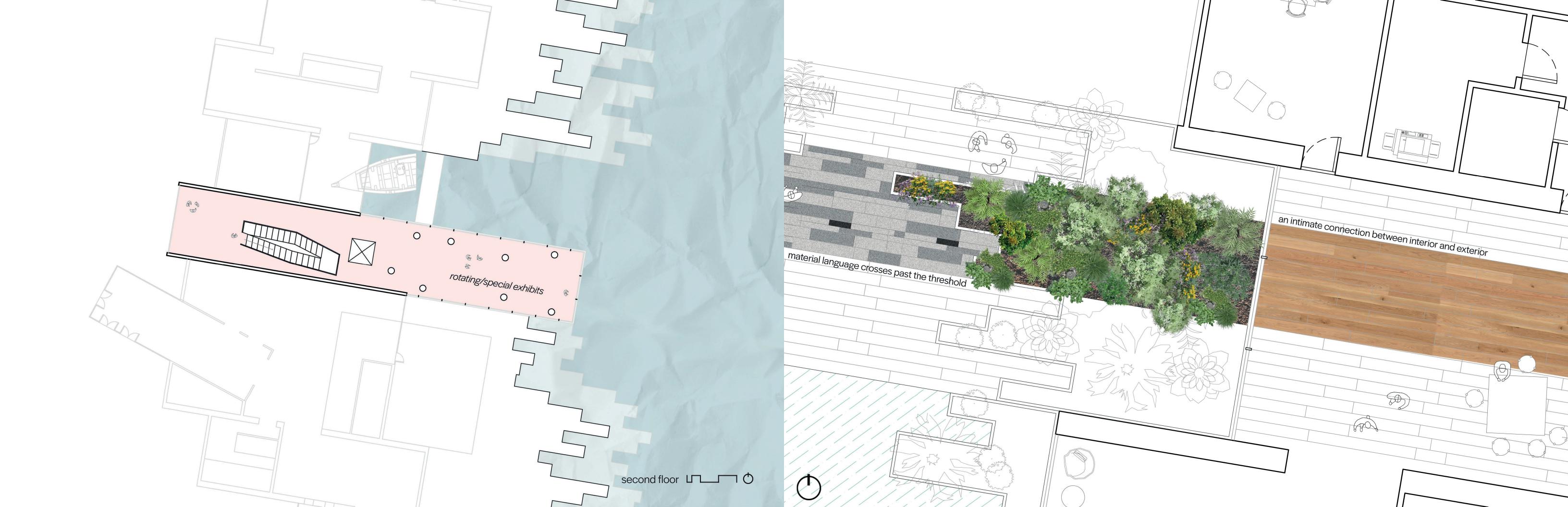
pierce the form and create an opening in the solid mass, saying come on in

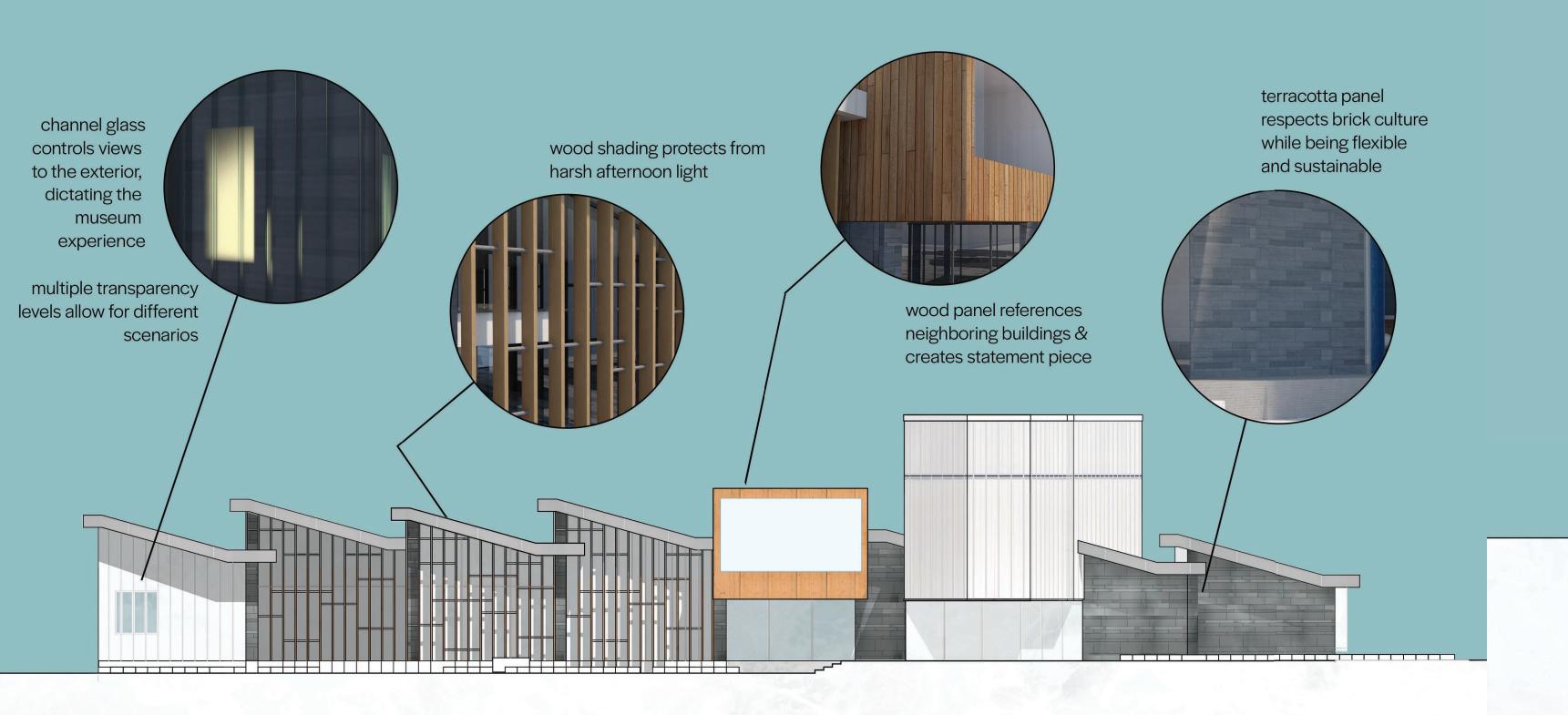


4 rise and overlook

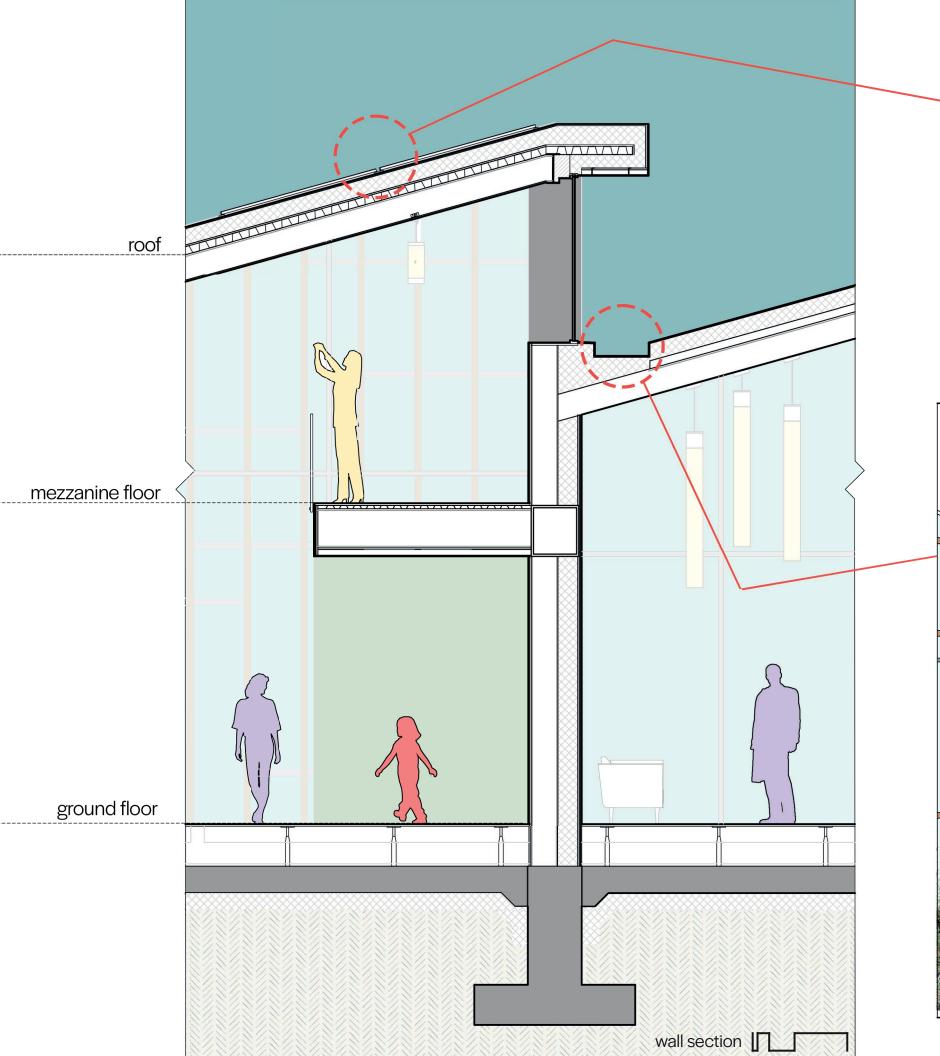
elevate the special exhibit spaces and create an overlook on the potomac river

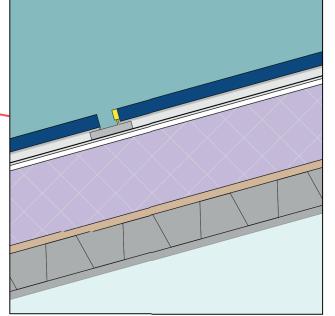






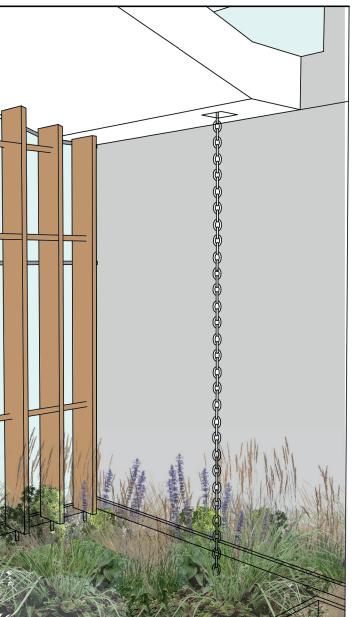






solar management sawtooth roof allows for solar panels to take advantage of the southern sun on the while allowing

northern light into the museum



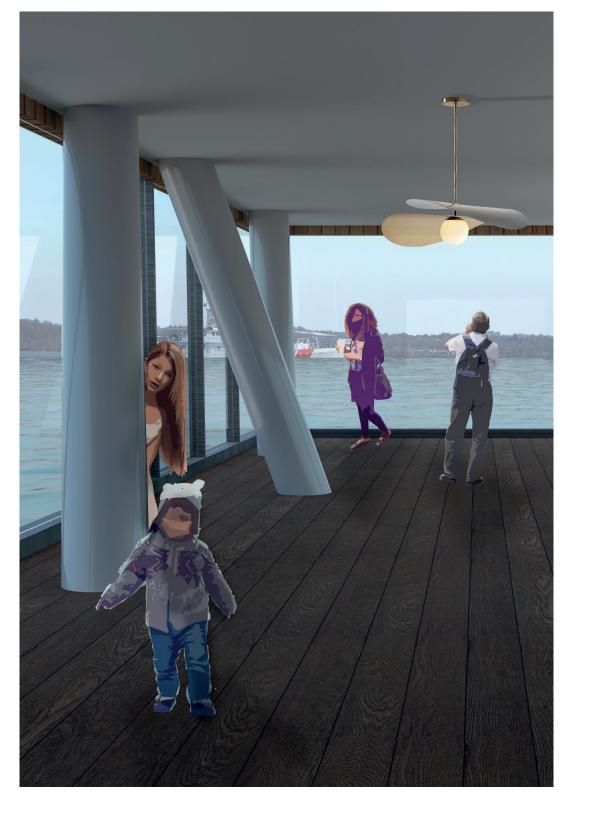
water management large gutters take rainwater and distributes it to the landscape

helps prevent flooding during heavy rains



lobby perspective tall double-height ceiling allows for art installations

overlook perspective second floor looks out towards the Potomac



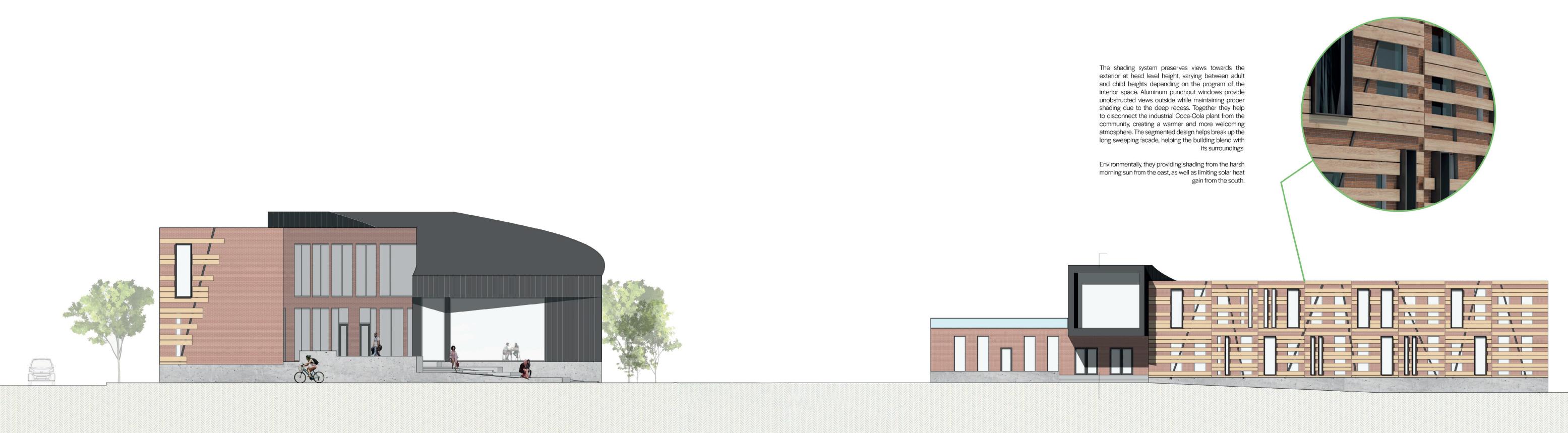


exterior plaza perspective open space allows for community gathering



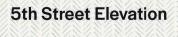
museum exhibit perspective mezzanine floor allows for multi-story exhibition



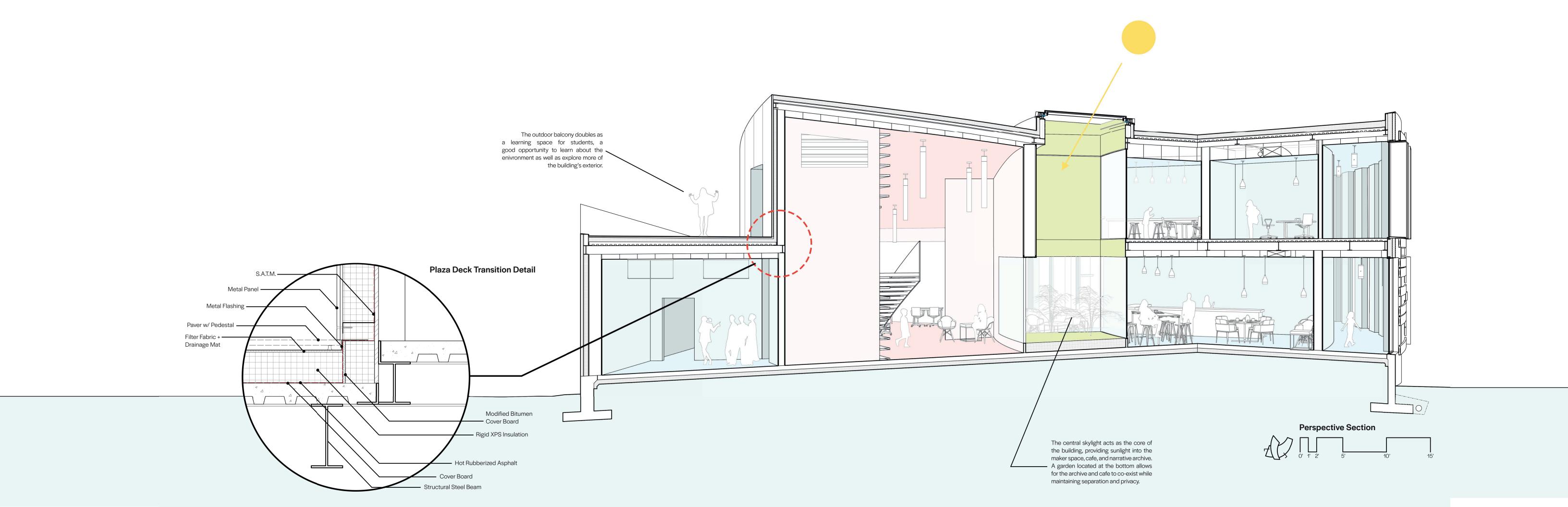


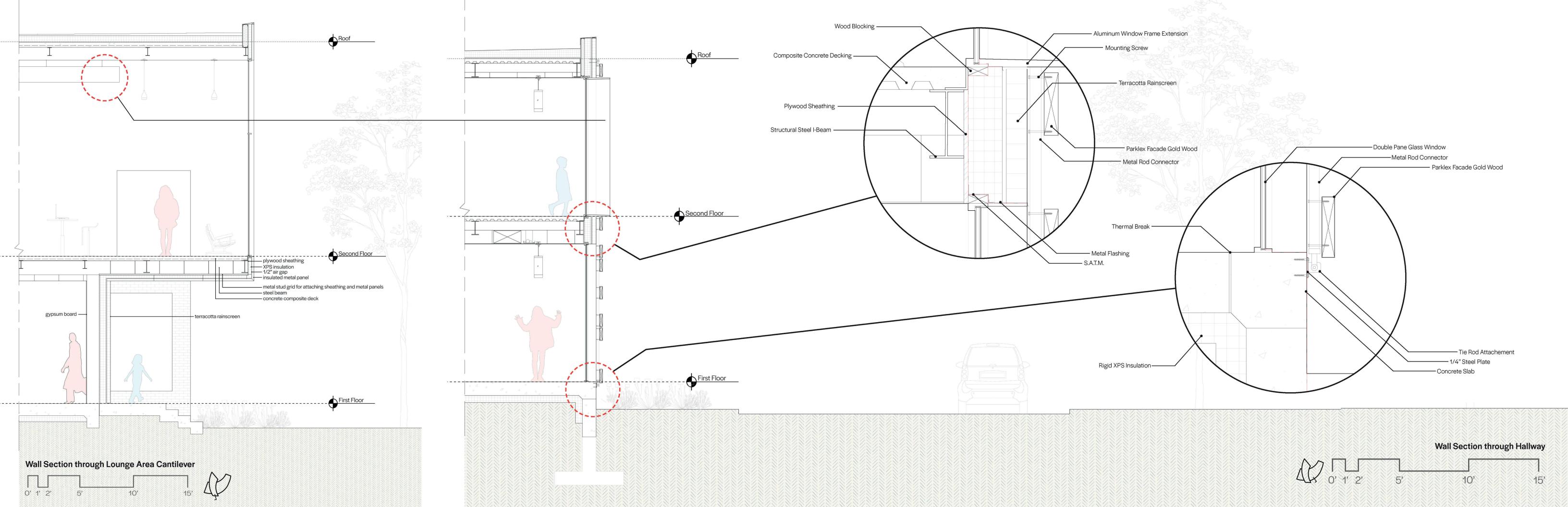
Loudon Avenue Elevation











The shading elements and aluminum punch-out windows are the first thing that can be seen as visitors approach the building. They create a unique but elegant facade that marks the entrance into the community. The large aperture looking out towards downtown Roanoke also provides a deep and welcoming awning, sheilding visitors from the elements as they enter the building.



The large aperture seen from the entrance houses the lounge area, a place where community members can gather and spend time together. The view towards downtown fosters a connection with the fabric of the city as well as bringing light deep into the space towards the narrative archive.

The narrative archive is the core of the building, the first thing that visitors see when they step beyond the threshold and into the heart of the community. A large bookshelf wall greets visitors, beckoning them to pull a book off the shelf and dive into the rich history of the neighborhood and the people that have lived in it for decades. Ample space is provided for interaction and study, a fine balance struck between work and play. A glimpse of the lounge area above allows the conversation to continue in a more private and relaxed environment.

push & pull:

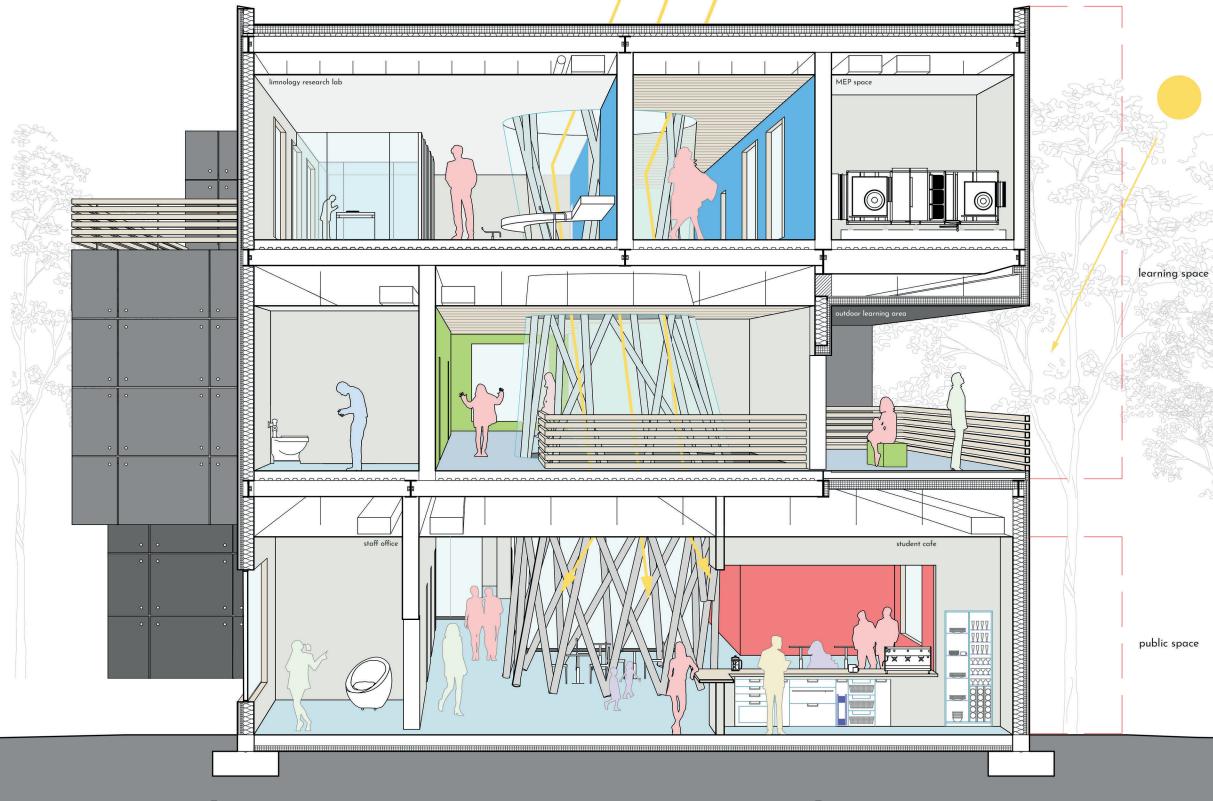
blacksburg high school research center for climate change and sea level rise

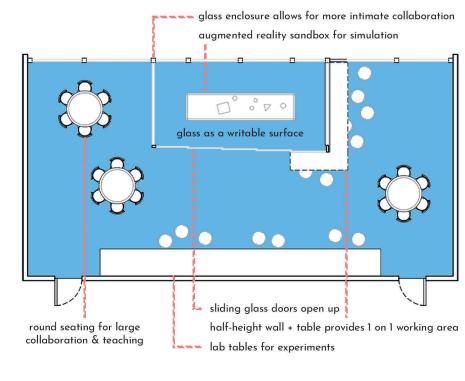
24,150 sqft. | 160 students

First Place VA4LE 2019-2020 Architecture Student Design Competition

First Place Spring 2020 IIBEC Mid-Atlantic and Virginia Chapters Student Design Competition

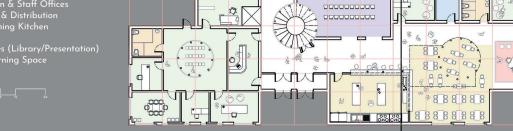


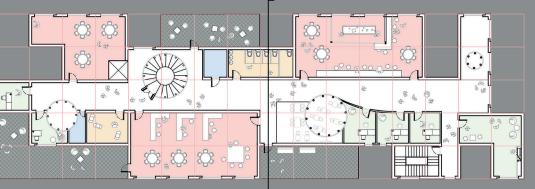


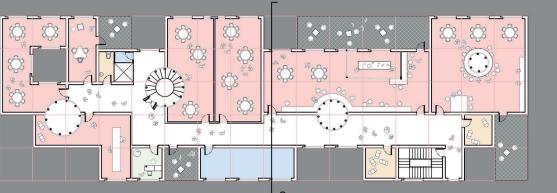


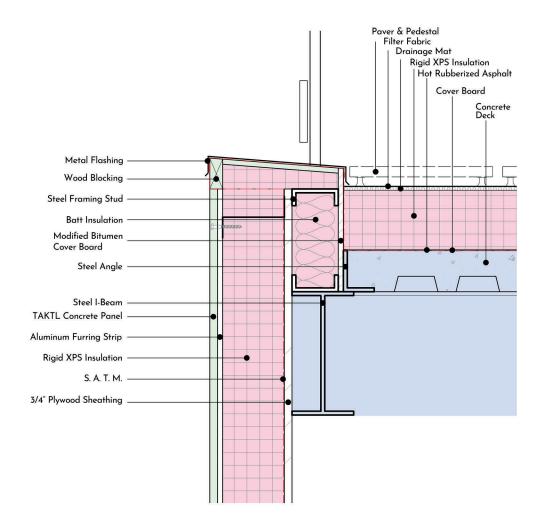


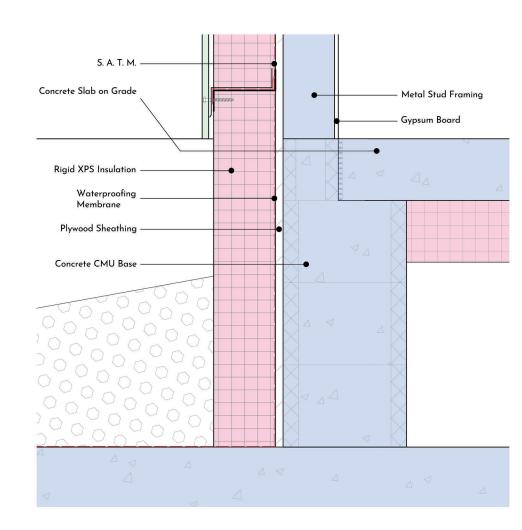
spaces, including one located directly beside daylit Stroubles Creek.

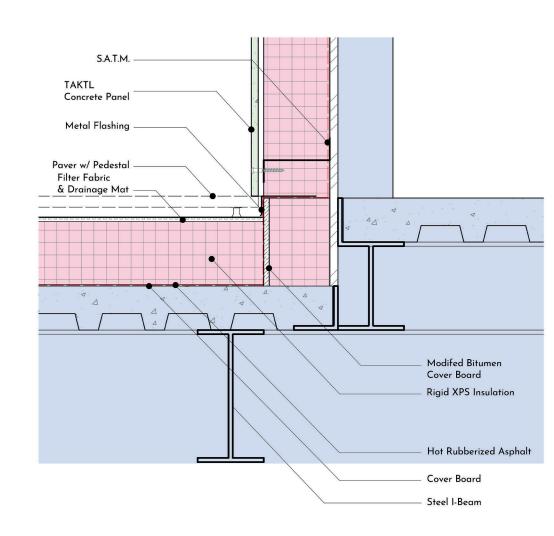














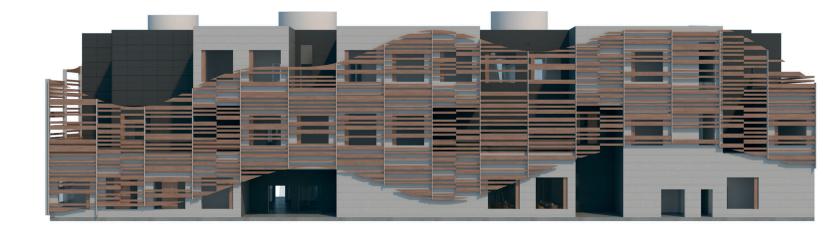
ground plane detail

plaza deck transition detail

membrane transitions into hot rubberized asphalt at plaza deck transition.

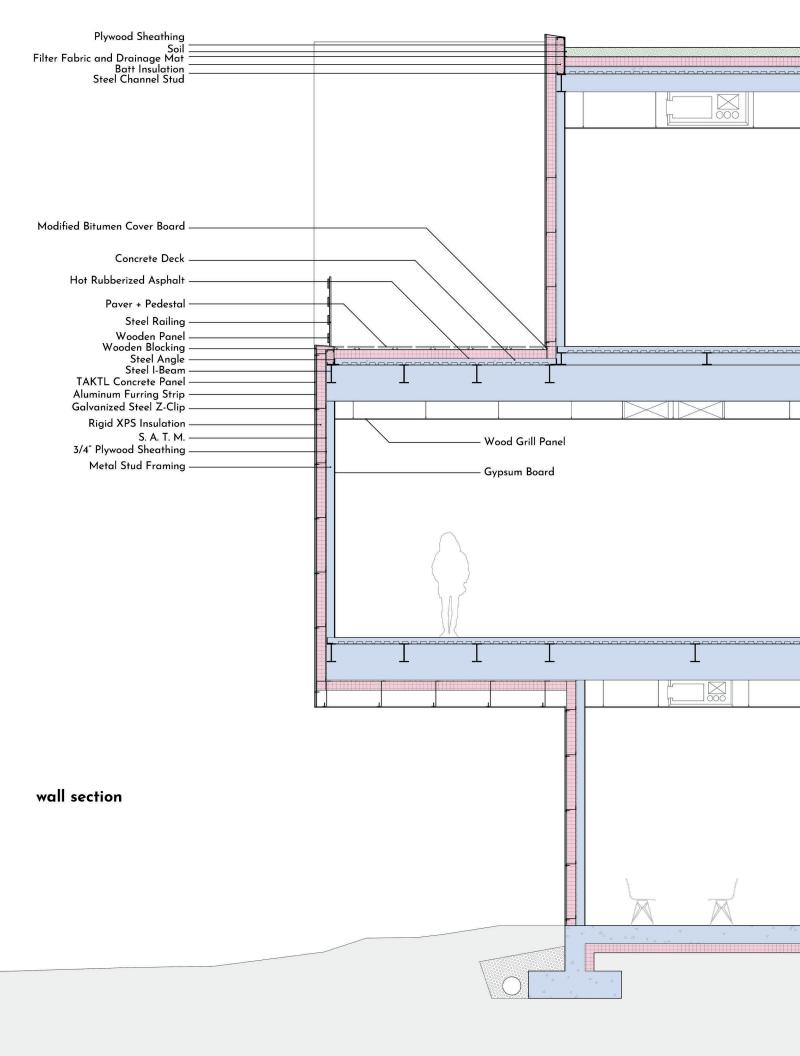
each plaza deck contains its own drain and drainage pipe.





south elevation (facing W Roanoke St.)

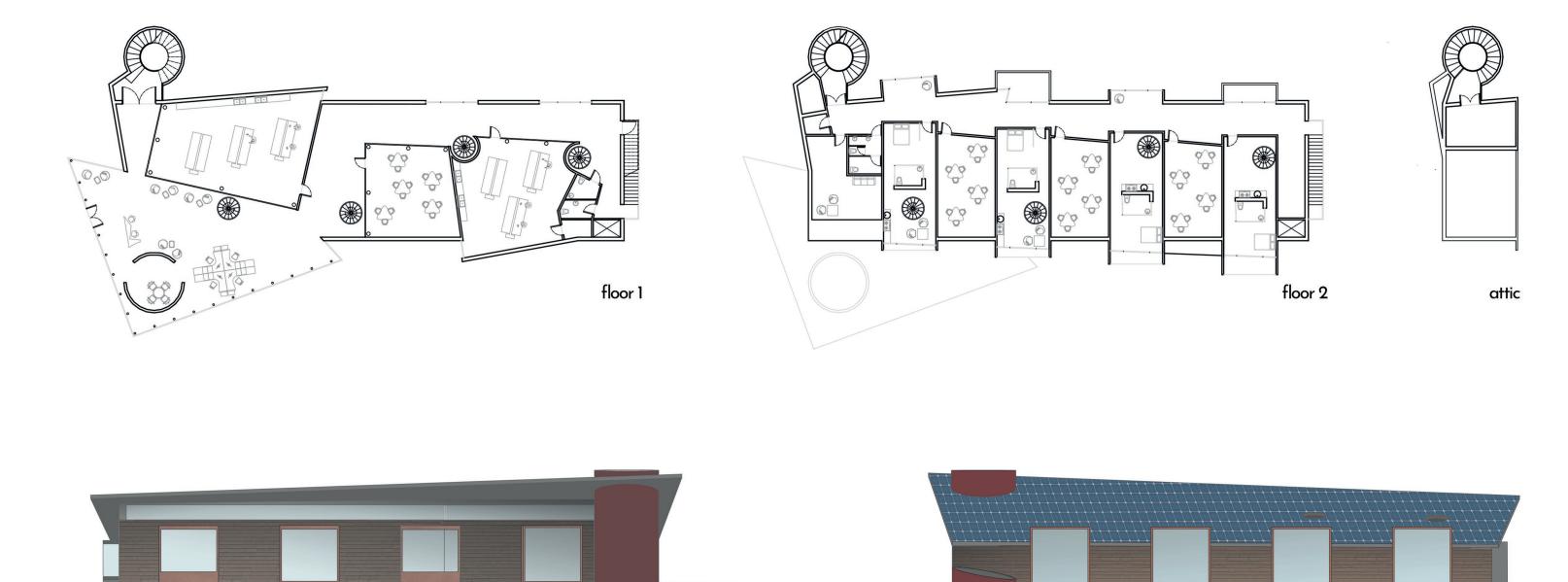
the double-skin facade is designed in a way to give shading to the south facing windows, which are susceptible to excess solar heat gain. Larger openings are placed at eyelevel, while keeping things dense to further lessen the amount of sun hitting the building facade. this also acts as a secondary rain-screen.



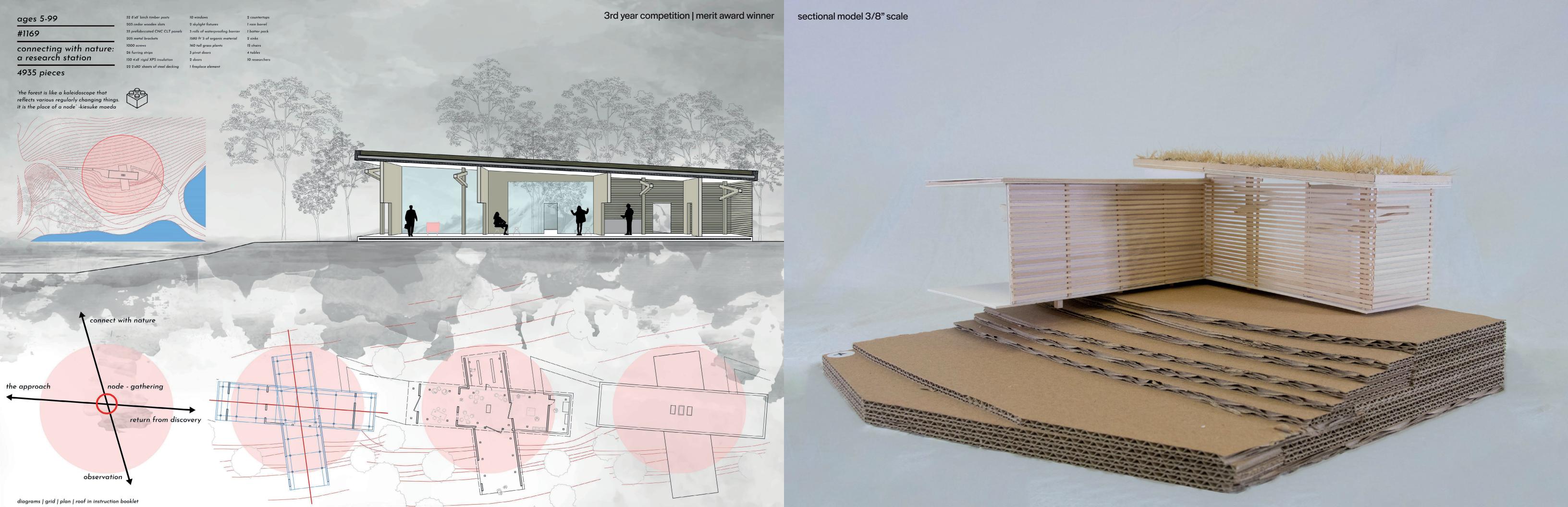


plans

120kW of power supplied through solar panels covering the roof & supplemental tree shading structures.



north elevation south elevation

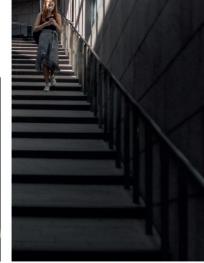


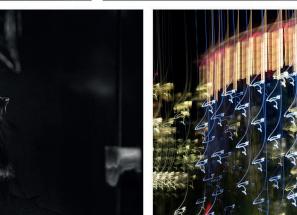


photography freezing a moment of

time into something we can hold in the palm of our hand















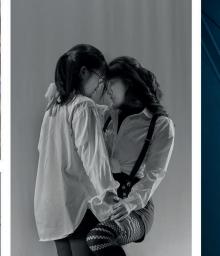


















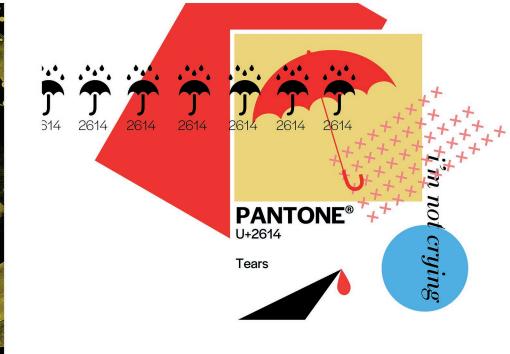






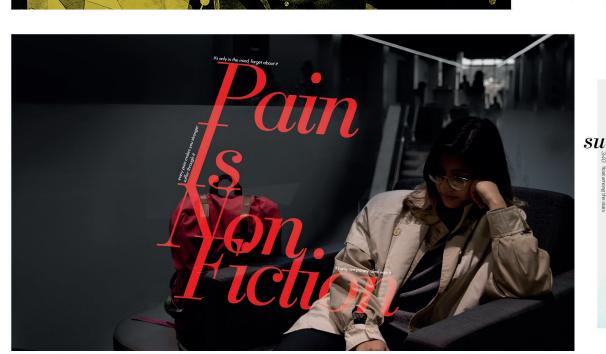


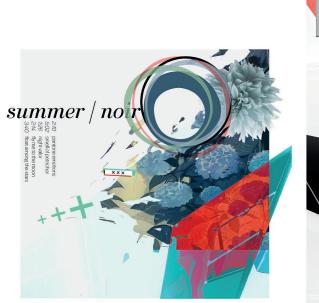






the **freest** form of expression, the liberating feeling of emotions flowing through the work itself.









the loss of an urban identity during COVID-19