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ARCHITECTURAL DESIGN & PLANNING
PORTFOLIO

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Druid Hill Park Bridge

UNDERGRADUATE THESIS
2018

Druid Hill Park Bridge aims to explore how design is able to **mitigate physical and social barriers in urban settings**, specifically between neighborhood and park. The project site is located on the north edge of Reservoir Hill in Baltimore, MD. Directly adjacent to the site is Druid Hill Park, Baltimore's largest and oldest public green space.

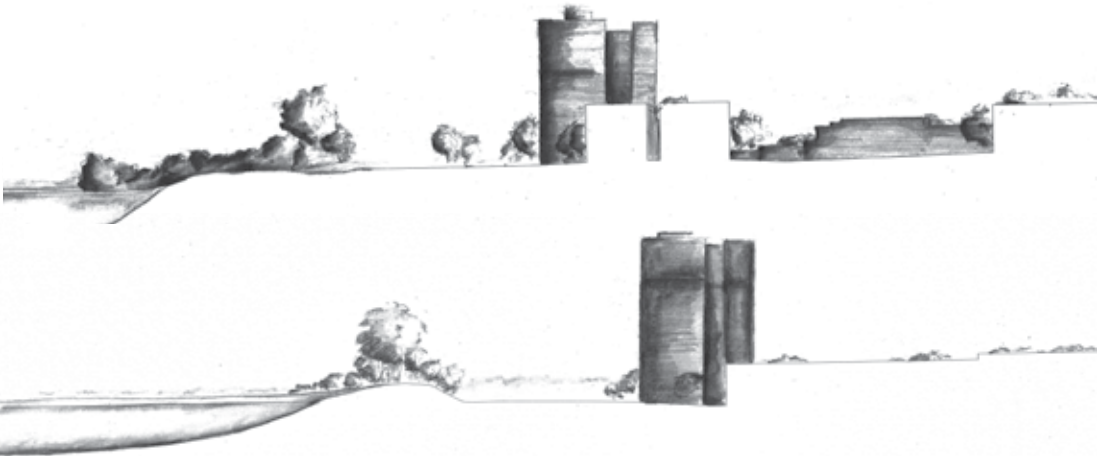
The design aims to address and reverse the negative impacts of the **infrastructural barrier** between the park and neighborhood created by historical carelessness. The design extends Druid Hill Park's south edge over the highway as a **land bridge** and merges the green space with the landscape and urban fabric of Reservoir Hill.



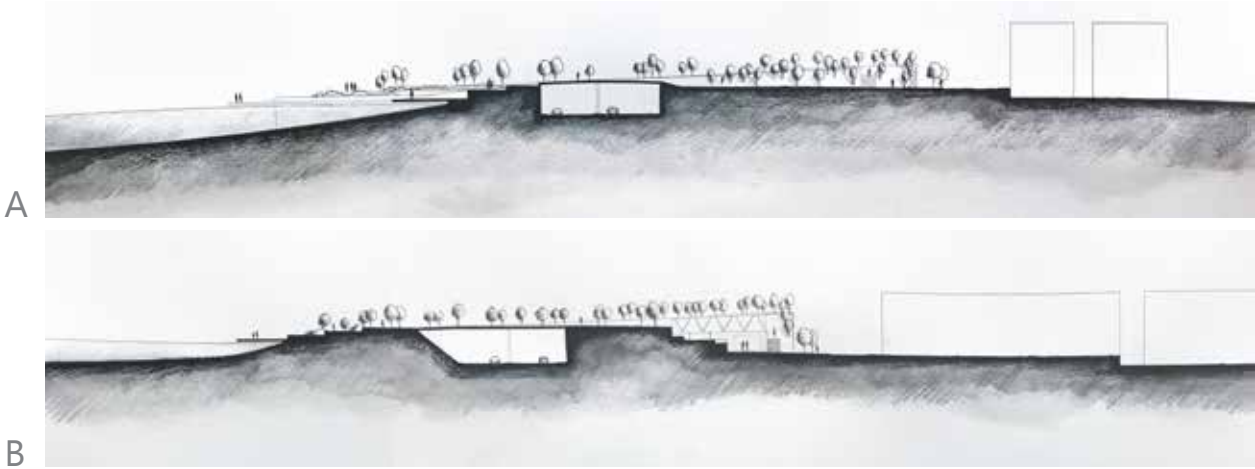


Existing Conditions

- The streets surrounding the site are designed for fast movement of cars. The few crosswalks connecting Reservoir Hill and Druid Hill Park are in poor condition.
- The retaining wall of the reservoir and high traffic streets create a physical barrier between the neighborhood and park, blocking views and access.



existing conditions section studies

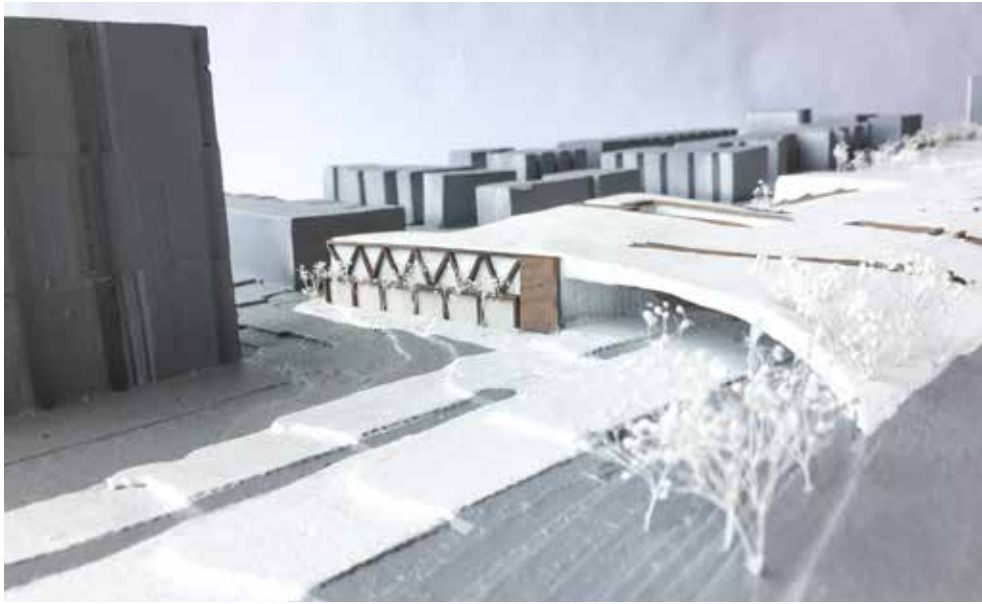


Design Solution

Druid Lake Park Drive becomes a **tunnel** beneath the designed landscape, and emerges on either end of the two-block site. This new ground becomes a wavering plane punctured and split by architectural forms existing in the created space below.

The ground remains level to the top of the burm where it related to the existing residential blocks, while in other areas it slopes down to meet the topography of the neighborhood for **direct access and easy circulation**. Large open green space at the west end opens up opportunity for field games, outdoor markets and festivals.

Druid Hill Park Bridge



1/32" scale model
insulation foam, bass wood, spray
paint, acrylic paint

Reservoir Hill Neighborhood Center

LOCATION

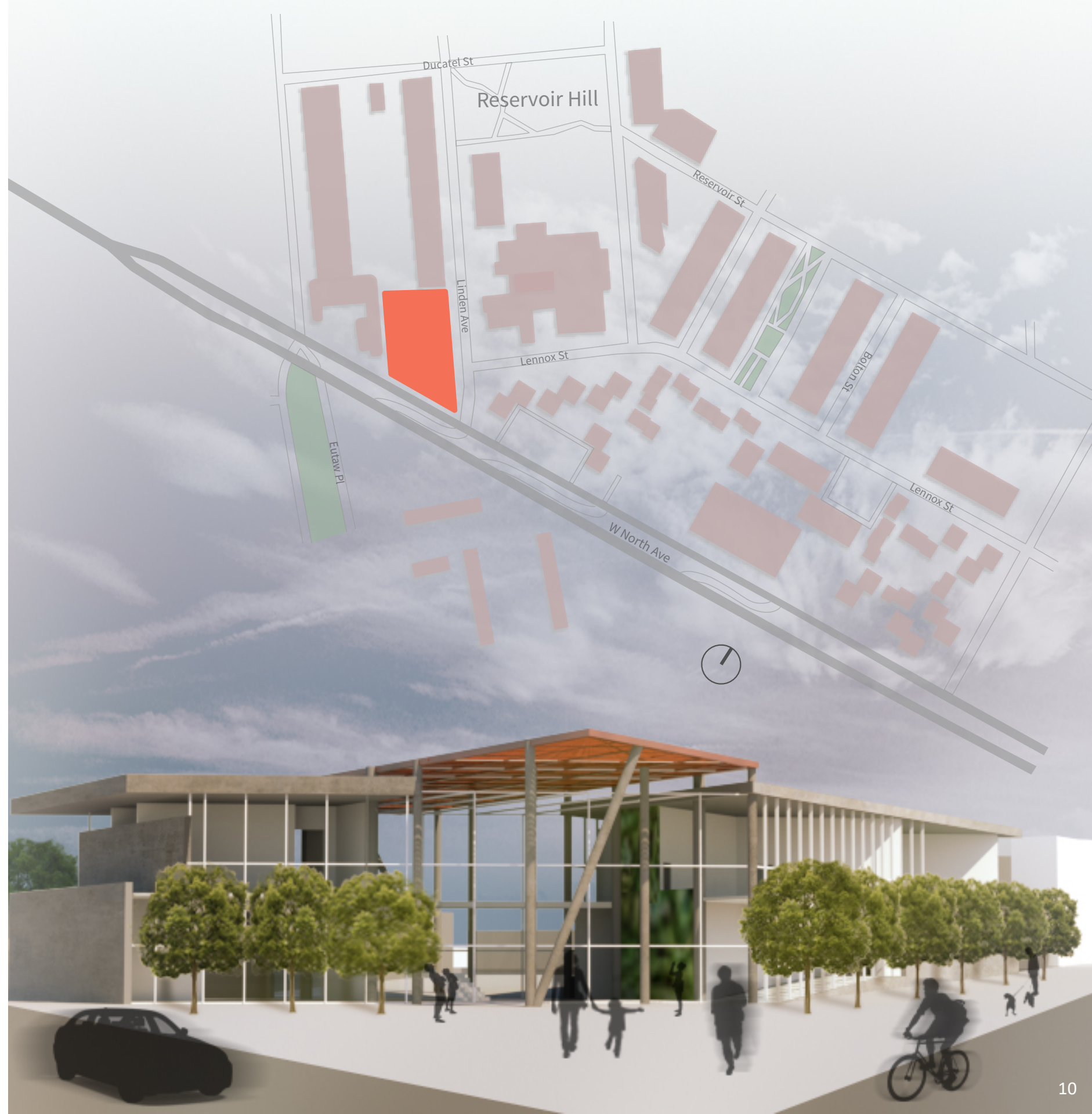
Reservoir Hill
Baltimore, MD

PROGRAM

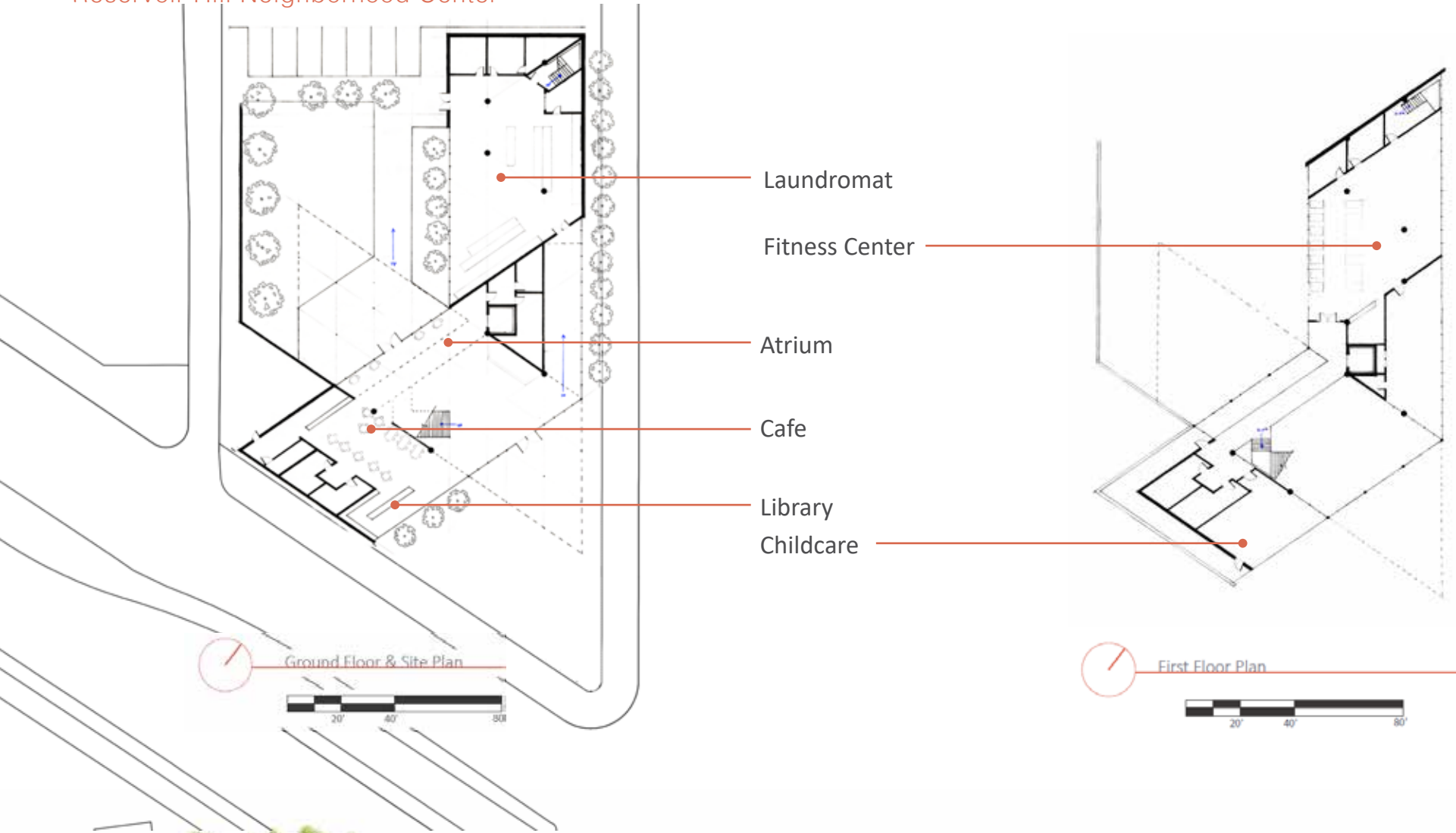
Cafe
Library
Laundromat
Fitness Center
Childcare

Reservoir Hill Neighborhood Center aims to become the revitalizing center for a community in decline. **A THIRD PLACE** which accomodates active lifestyles as well as relaxed ones can provide an opportunity for growth and change withi a neighborhood that has been historically neglected.

The design is centered around the idea of interior and exterior crossing space which is shown through the overlapping of solid and transparent building forms. a **CENTRAL ATRIUM** becomes the focal point and **TRANSITIONAL SPACE**. A large canopy hovers above the atrium roofline and extends out over the front and rear outdoor spaces, creating chelter and shade.



Reservoir Hill Neighborhood Center



Cambridge Science and Arts Center

LOCATION

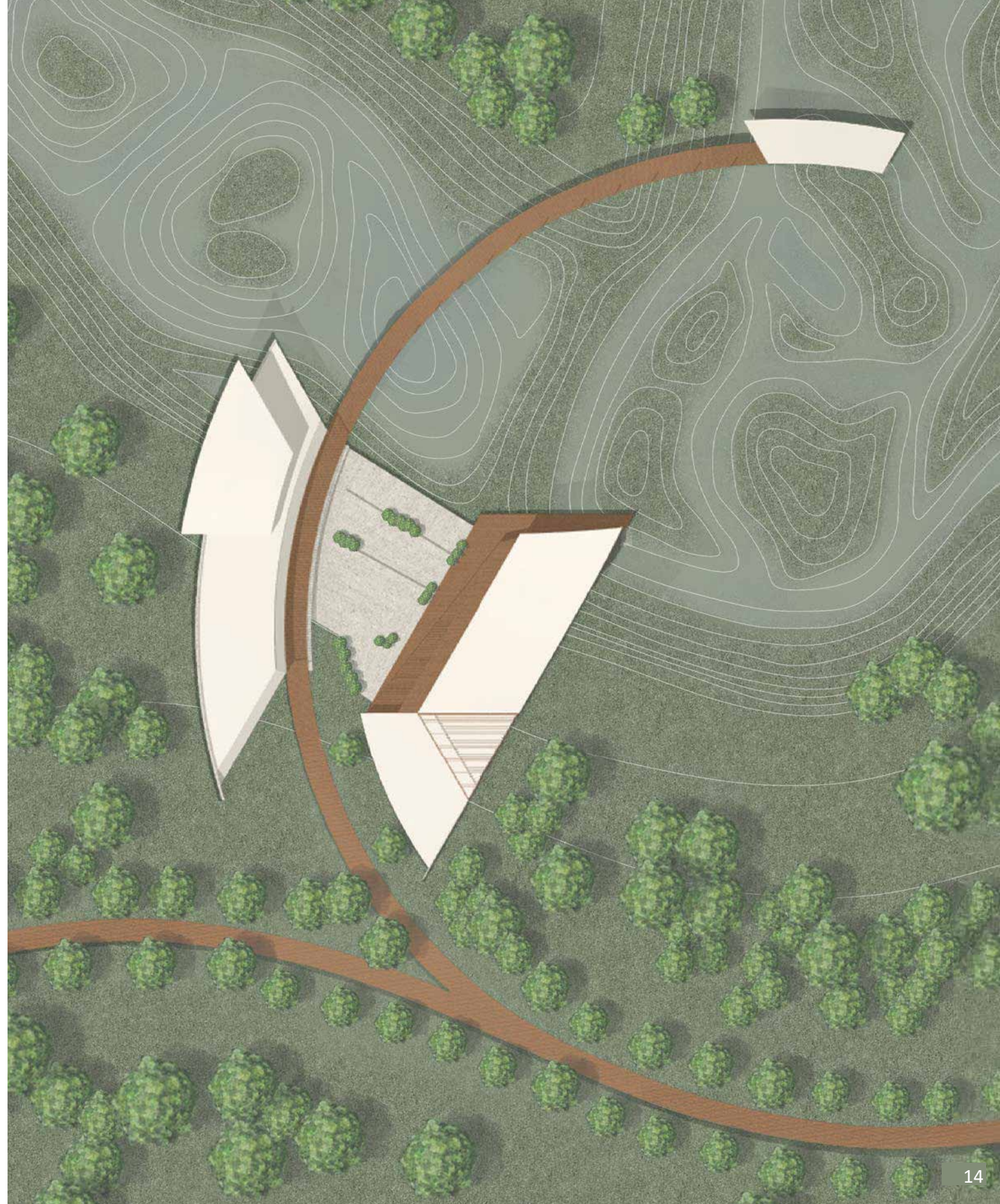
Cambridge, MD

PROGRAM

Artist Studios & Residence
Exhibition Hall
Gallery Space
Cafe
Wetland Education Center

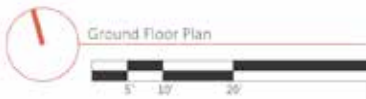
The city of Cambridge, Maryland, situated on the Choptank River, is experiencing the effects of **SEA LEVEL RISE**, and frequently suffers from flooding. This project first addressed the flooding issue through **WATERFRONT REDEVELOPMENT**. **WETLANDS** are strategically placed and are used as a buffer at the entrance of the Cambridge creek.

The second step of the project was to address the **UNDERDEVELOPMENT AND UNDERUTILIZATION** of the city's waterfront. Existing currently is an array of crab shacks and industrial warehouses, with an occasional condominium that is half vacant. The project aims to reclaim the waterfront and breathe life into the new landscape.





- A** Exhibition Hall
- B** Artist Studios & Residences
- C** Wetlands Education Center



The Cambridge Community Center features three buildings. Building **A** houses the exhibition hall and cafe, and accomodates the public. A large glass wall faces the wetlands and rivers for spectacular views. Building **B** contains an entrance gallery, artist studios as well as resident artist housing space. The buildings are placed at an angle and open up to form a plaza which gives visitors direct and intimate access to the wetlands. Building **C**, accessed by a low pedestrian bridge, is a wetland museum and eduational center, a way to inform the community about the new landscape which both protects from floods and enhances the waterfront of their city.



Two Merriweather Bench Design

GENSLER & HOWARD HUGHES
CORPORATION DESIGN COMPETITION

WINNING STUDENT DESIGN

Two Merriweather Bench is a site specific design intended for a public plaza at Two Merriweather in Columbia , MD. The material used is **Oak**, harvested from the trees which lived on the pre existing site.

This design was selected by Gensler and Howard Hughes to be constructed out of 30 student design entries.

The construction of the bench took place offsite in Baltimore, MD. Through construction, and with help from MICA professors, many **details and systems** were implemented which resulted in the finished look of the bench.

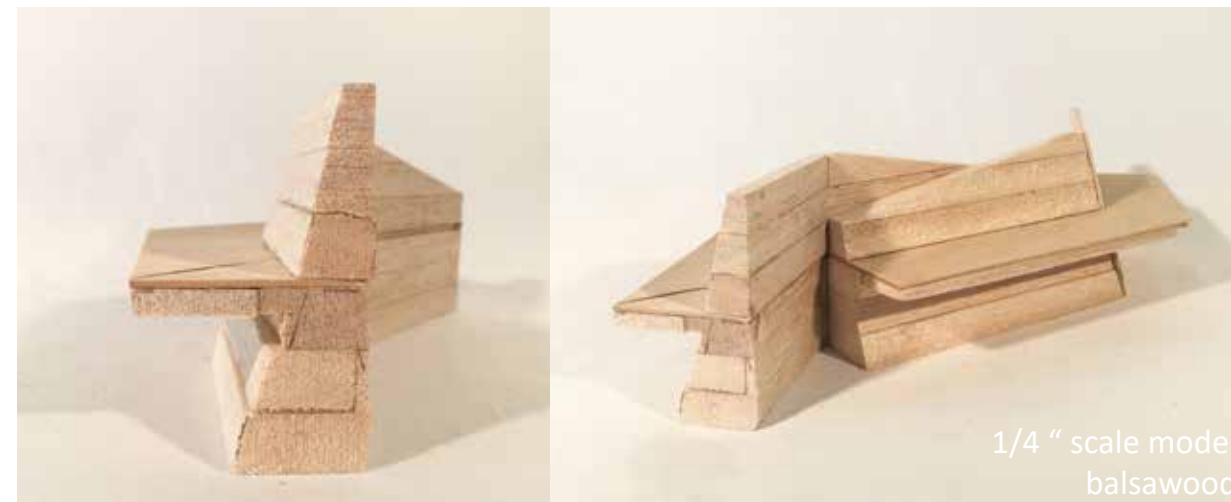




Design Solution

The angles of the bench design mimick the **angularity** of the plaza, matching its geometric interest. The bench, designed to be placed central in the plaza, **also acts as a dividing wall**, to guide the flow of pedestrian traffic from the road into the site.

Stacking the layers of oak ensures the **structural integrity** of the bench while allowing the form to remain elegant. The fastener, a metal screw, to secure the layers together, is the only secondary material used in the design.



Construction

The bench was constructed in alternating layers, creating a woven effect in the backside of the bench. Each layer includes a solid board on an angle and a system of perlings evenly spaced to fill in the created gap. The construction was completed February 2019



Completed Bench



Archi-Pelago Pavillion

LOCATION

Sandøya, Telemark, Norway

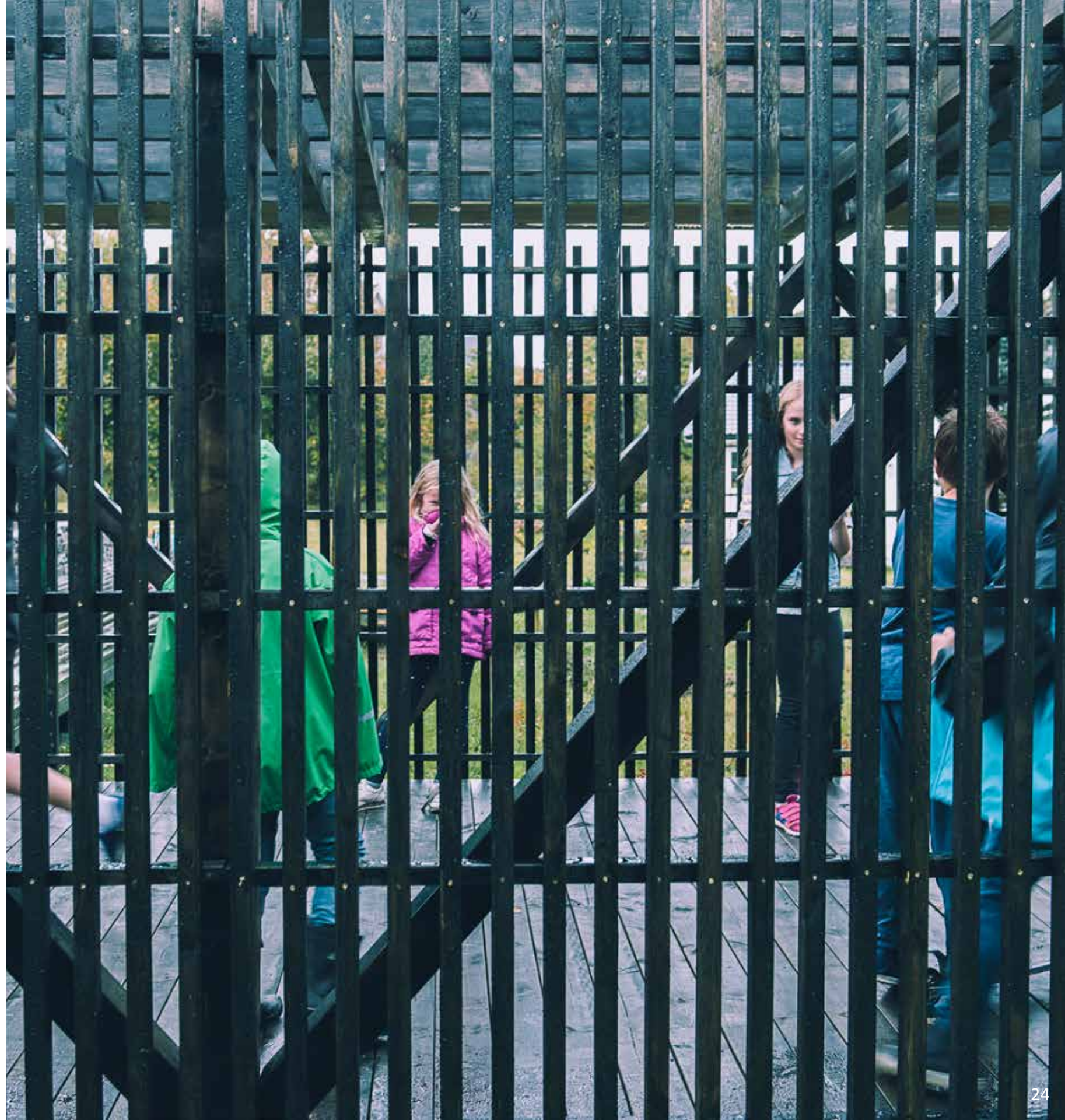
PROGRAM

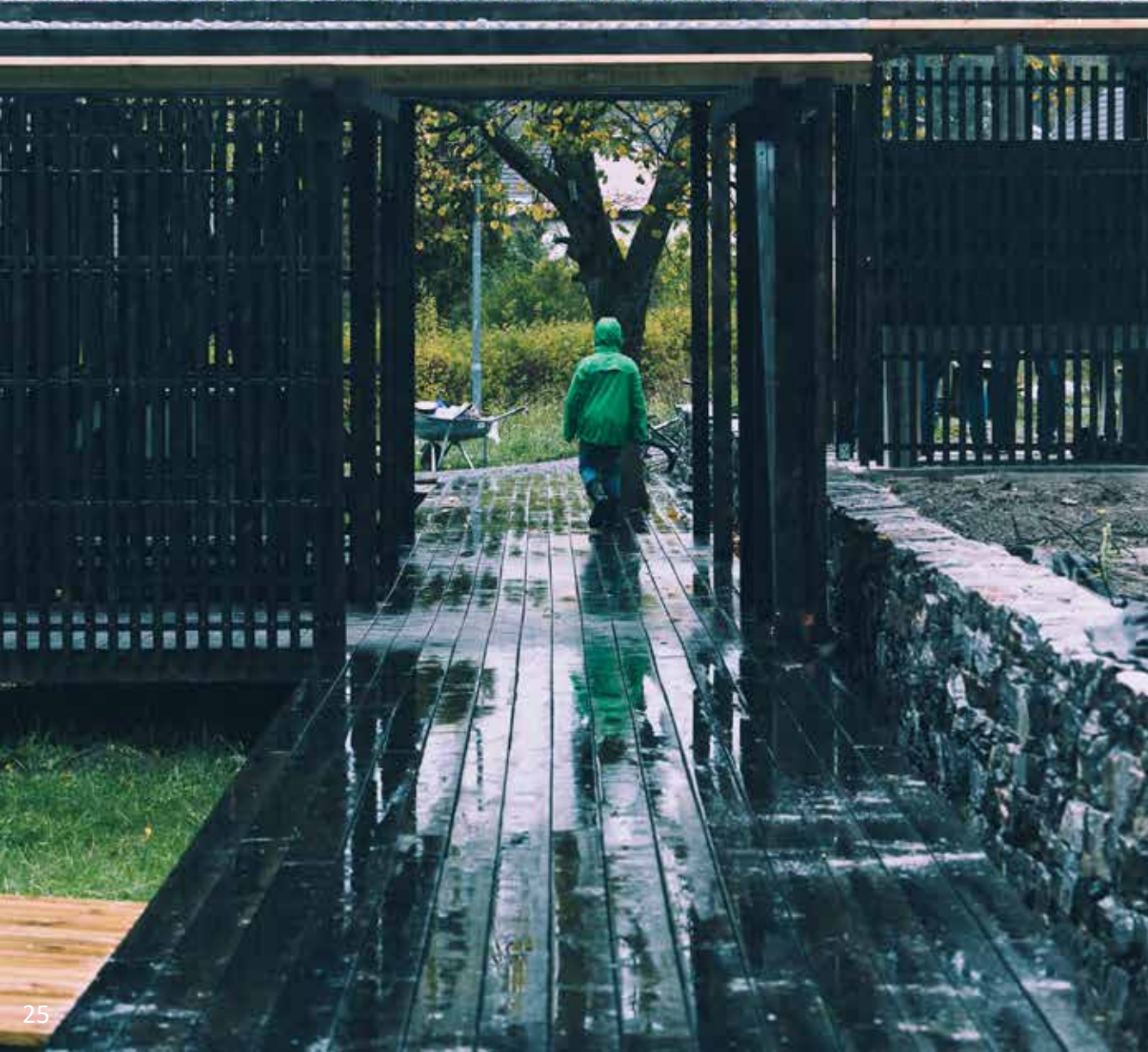
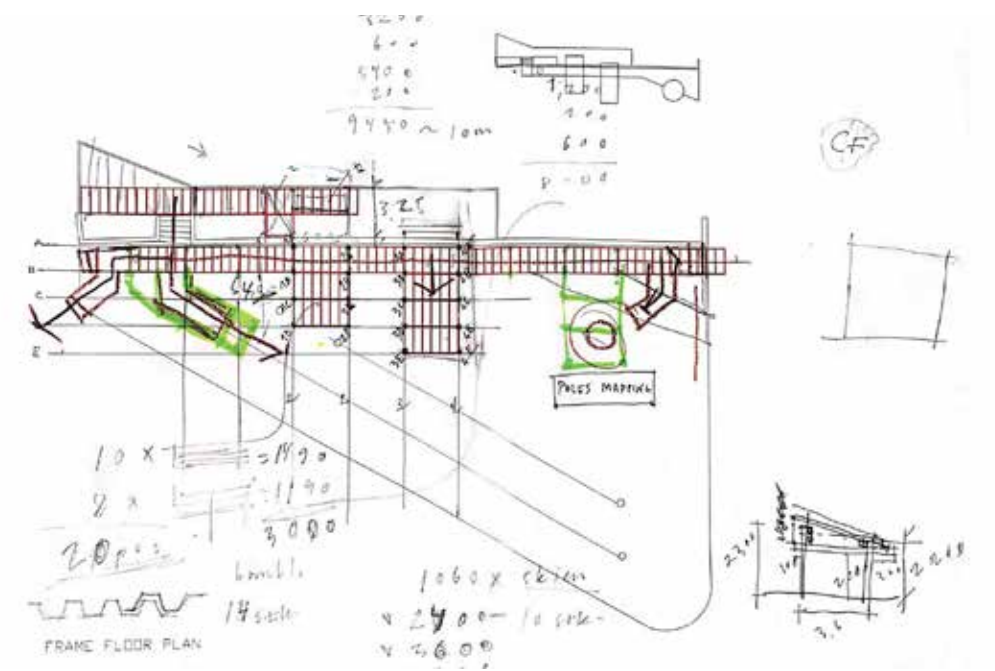
Outdoor Kitchen

Fire Pit

Pizza Oven

The Archi-Pelago Pavillion project took place on the small island of Sandøya off the coast of Brevik, Norway. The construction of the pavillion was an part of a larger effort to **increase tourism** for Sandøya and other surrounding islands in the fjord. The pavillion was built on campus of the Montessori School, as part of a **design-build workshop**.





The site for the pavilion, encompassed by the orchard in the west and a soccer field in the east, is divided by a limestone retaining wall. The community asked that we design a **kitchen pavilion** that could be used by everyone: the kindergarten, the grade school, the high school, the 350 island residents, 700 summer people and visitors hopping between islands.

We designed built elements along the limestone wall, composing a set of **"crab traps"** linked by wooden walkways. A solitary tree through the walkway incorporated the landscape into the structures. Upper areas were left quite open for the views and out door seating, and a covered wood pizza oven was built on the upper area as well.

Thank You

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