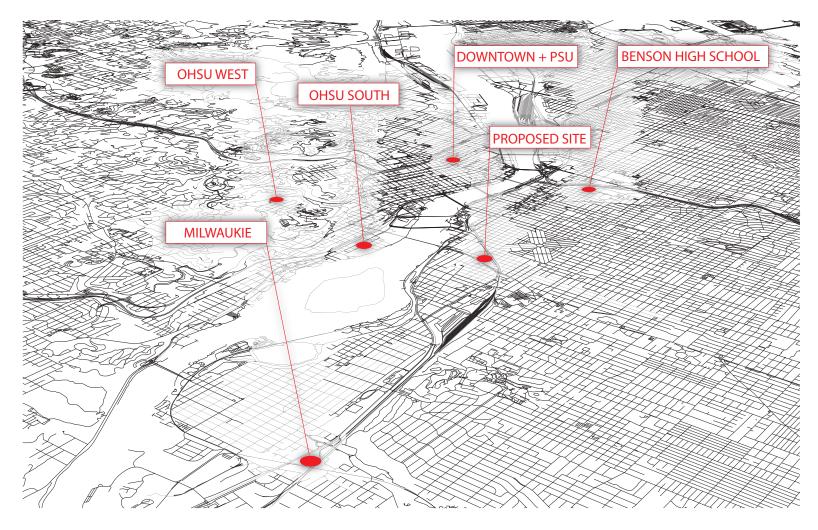
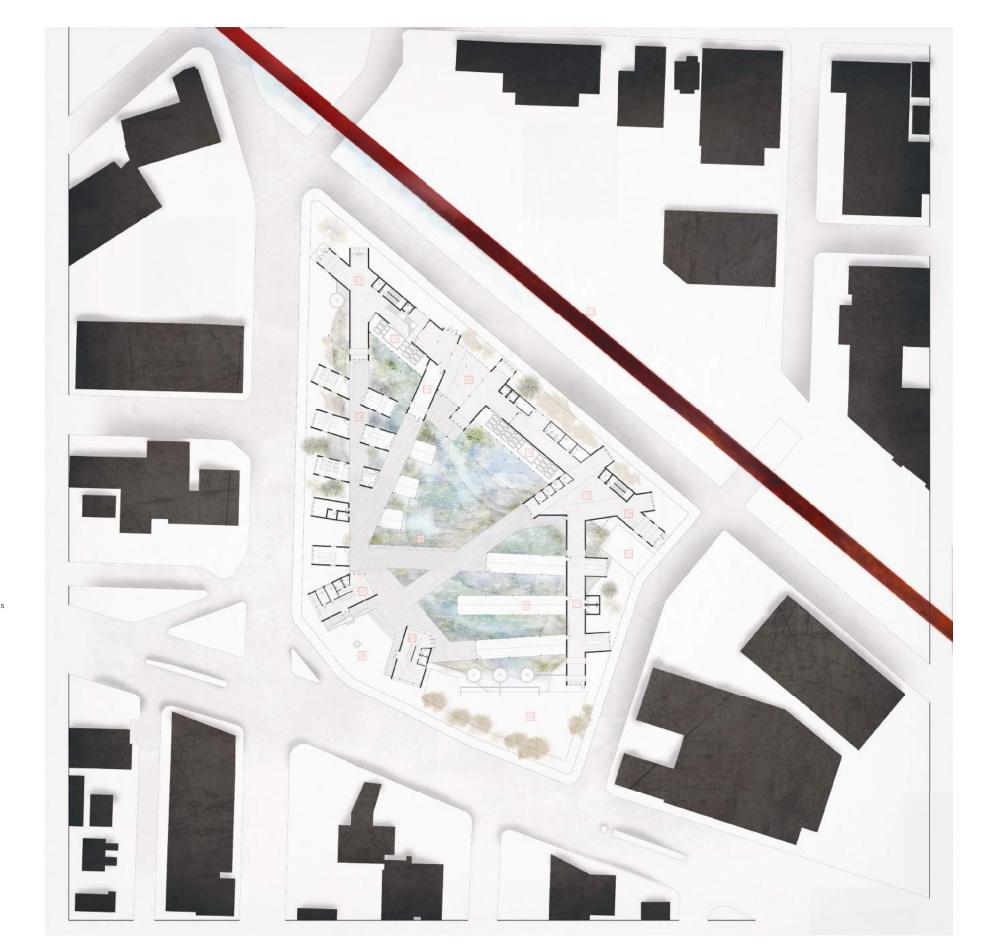
1210 se gideon street : INFRASTRUCTURE FOR URBAN AGRICULTURE Kellen Thayer





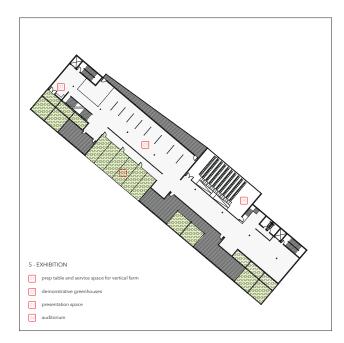


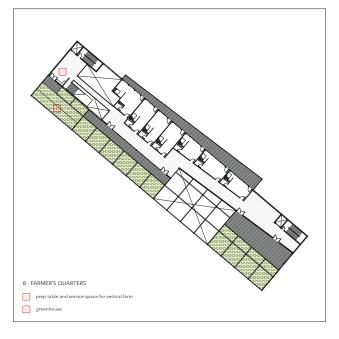


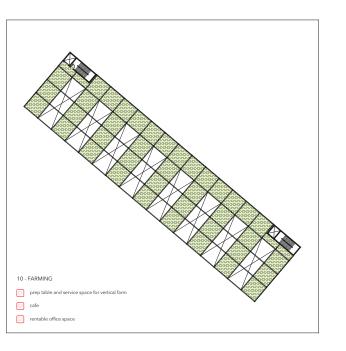


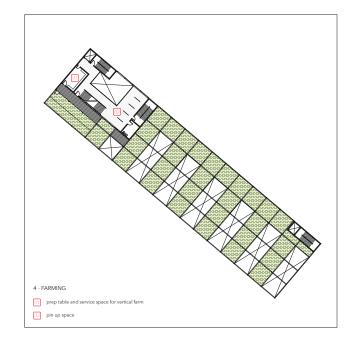
- community garden
- 01 public transit lobby
- 02 restaurant
- 03 kitchen for restaurant + students
- 04 classrooms + greenhouses
- 05 classroov
- 06 access to wetland
- 07 personal transit lobby
- 08 artesian well
- op cafe + waiting room
- 10 greenhouses
- 11 botony labs
- 12 loading dock
- 13 faculty offices
- 14 faculty lobby
- aquaponic facilities
- 16 aquaponic facilities
- orange MAX line + station

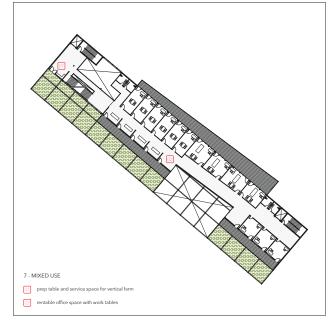


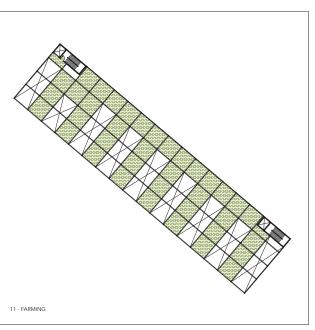


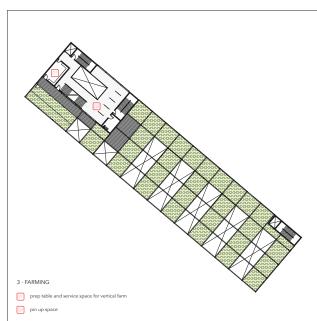


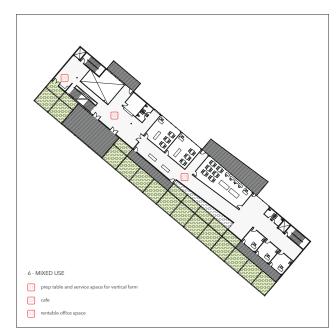


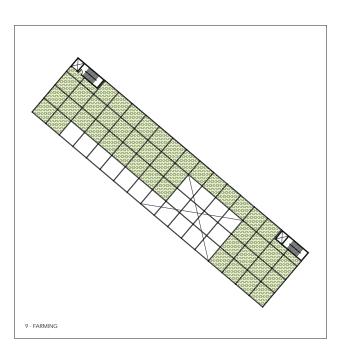






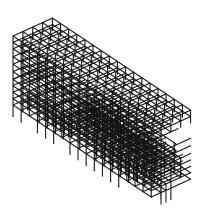






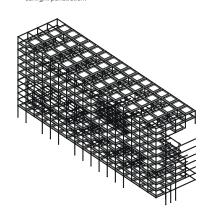
frastructure:

Polycarbonate extrusions form framework which wraps southern facade.



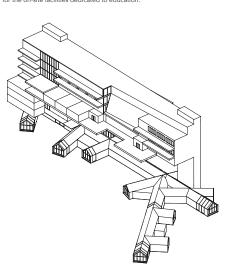
Application

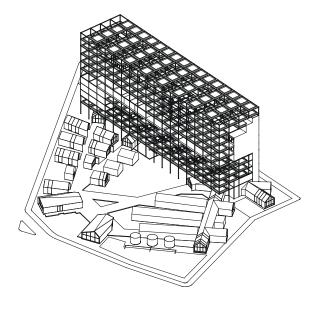
Planters and greenhouses fill the space provided by infrastructure, allocating empty modules for sunlight penetration.

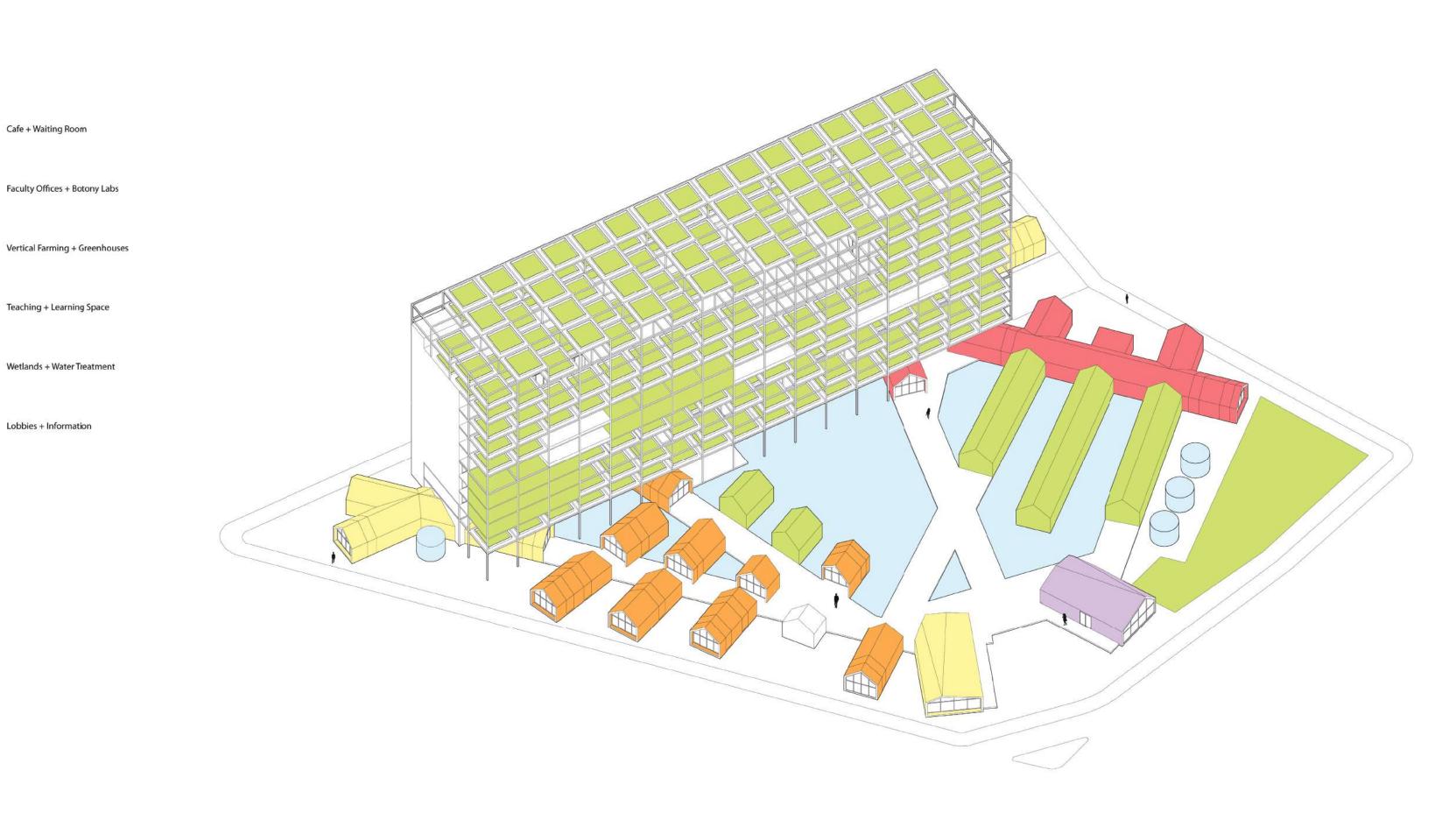


conomy:

Green infrastructure wraps the facade of a mixed use office and residential building, providing funding for the on-site facilities dedicated to education.



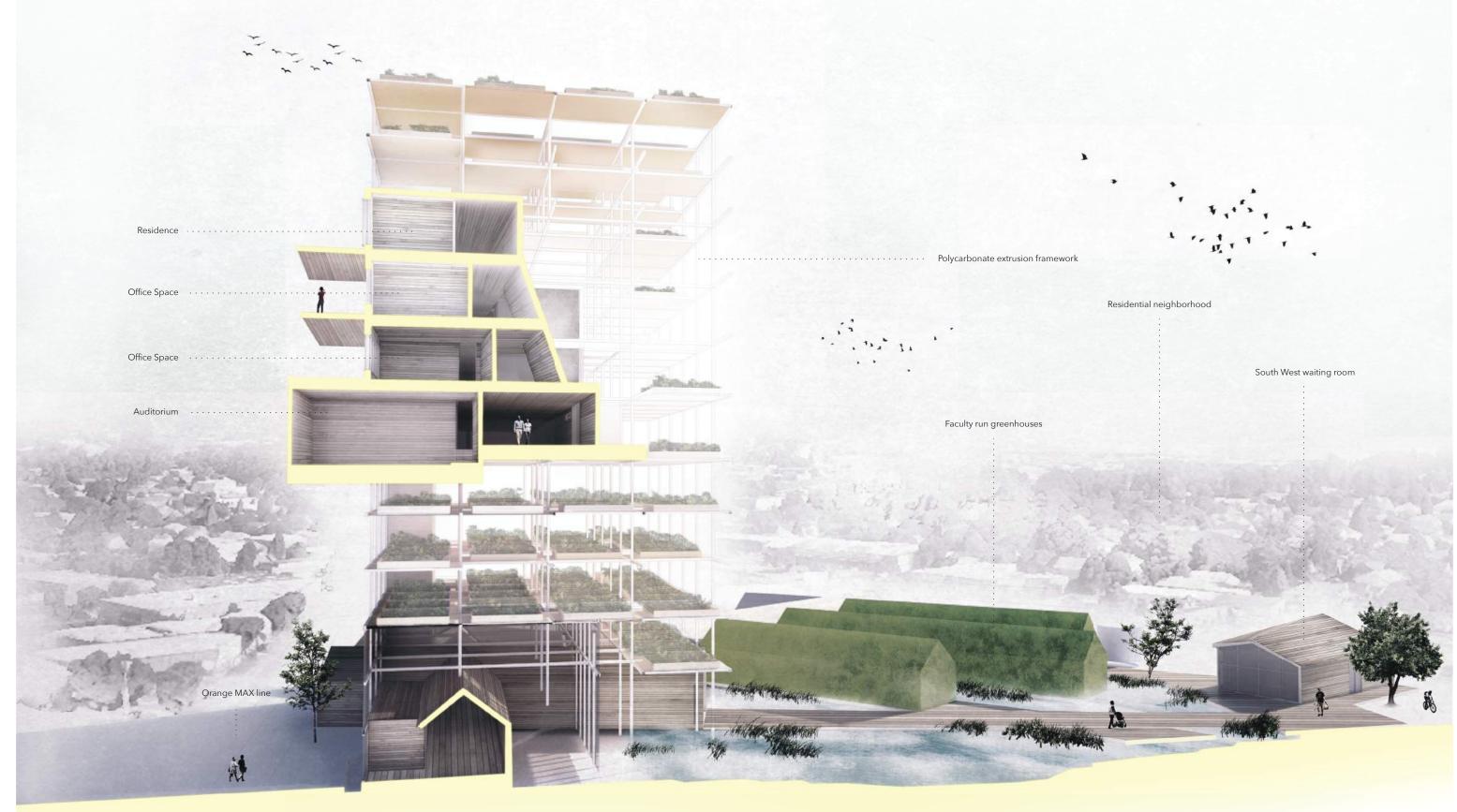




Cafe + Waiting Room

Lobbies + Information





STORMWATER TREATMENT:

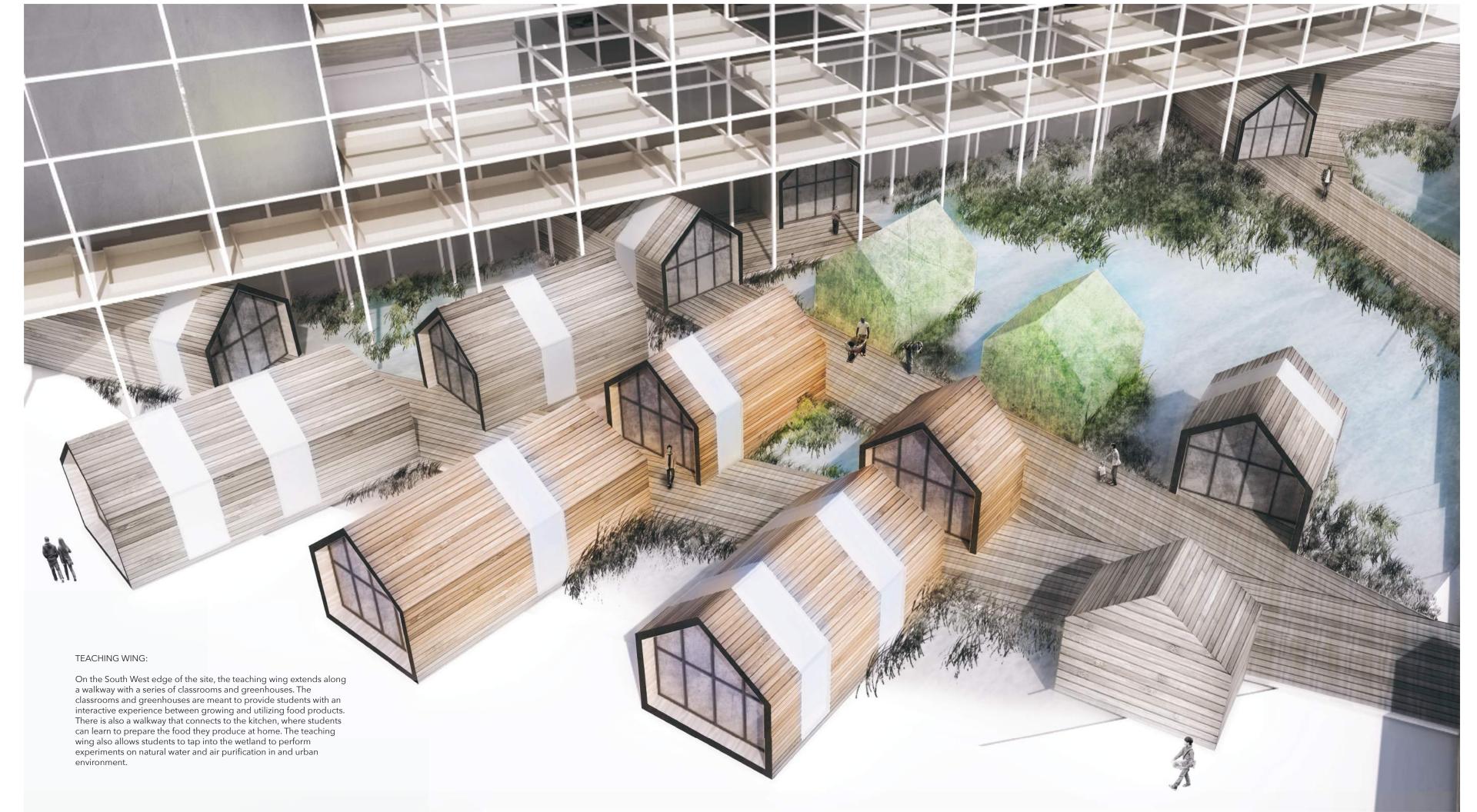
Portland receives 38.2 inches of rainfall annually. This provides any developing project a unique opportunity to capture and retain that water. Water is collected from the rooftops of the gable structures on the ground floor and is relocated to treatment systems on the southern end of the site. This water is cleaned and repurposed to support the Community Center's Agricultural and bathroom facilities.

VATER:

32.8 inches of water annually fall on the site. The site is roughly 131,000 square feet. This provides the site with about 26,000,000 gallons of water per year. While a significant portion of this rainfall will provide the Community Center with grey water, the majority of the rainfall will help support the wetland. As the seasons change, the wetland will fluctuate in depth in accordance with the seasonal rainfall trends.

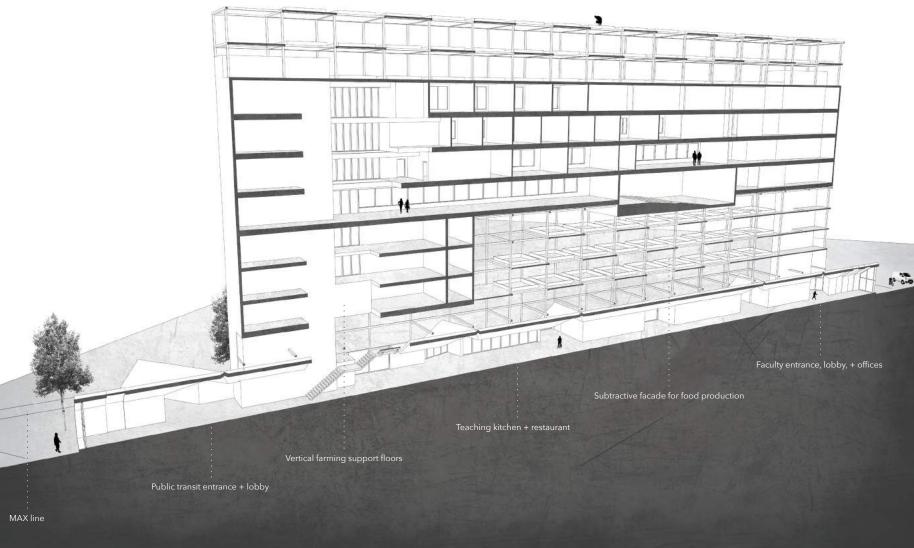
GROUNDWATER ACCESS:

The watershed between the cascades and the Willamette River harbors a number of groundwater streams. These streams lie within the aquifer or moving water below the surface. This water flows East to West from local hills such as Mt. Tabor, which is located roughly one mile to the East of the site. This water flows in a major groundwater stream directly underneath the South West corner of the site. Accessing this groundwater is crucial to the success of this urban wetland. This water will typically run straight into the controversially polluted Willamette River. By bringing some of this water to the surface, it is able to maintain a clean state while supporting a local ecosystem. This water is accessed with an artesian well which is located near the main entrace of the site along the South West courner. The artesian well penetrates the aquifer comprised of permeable materials of rock and sand to extract the water using the natural pressure of the aquifer.

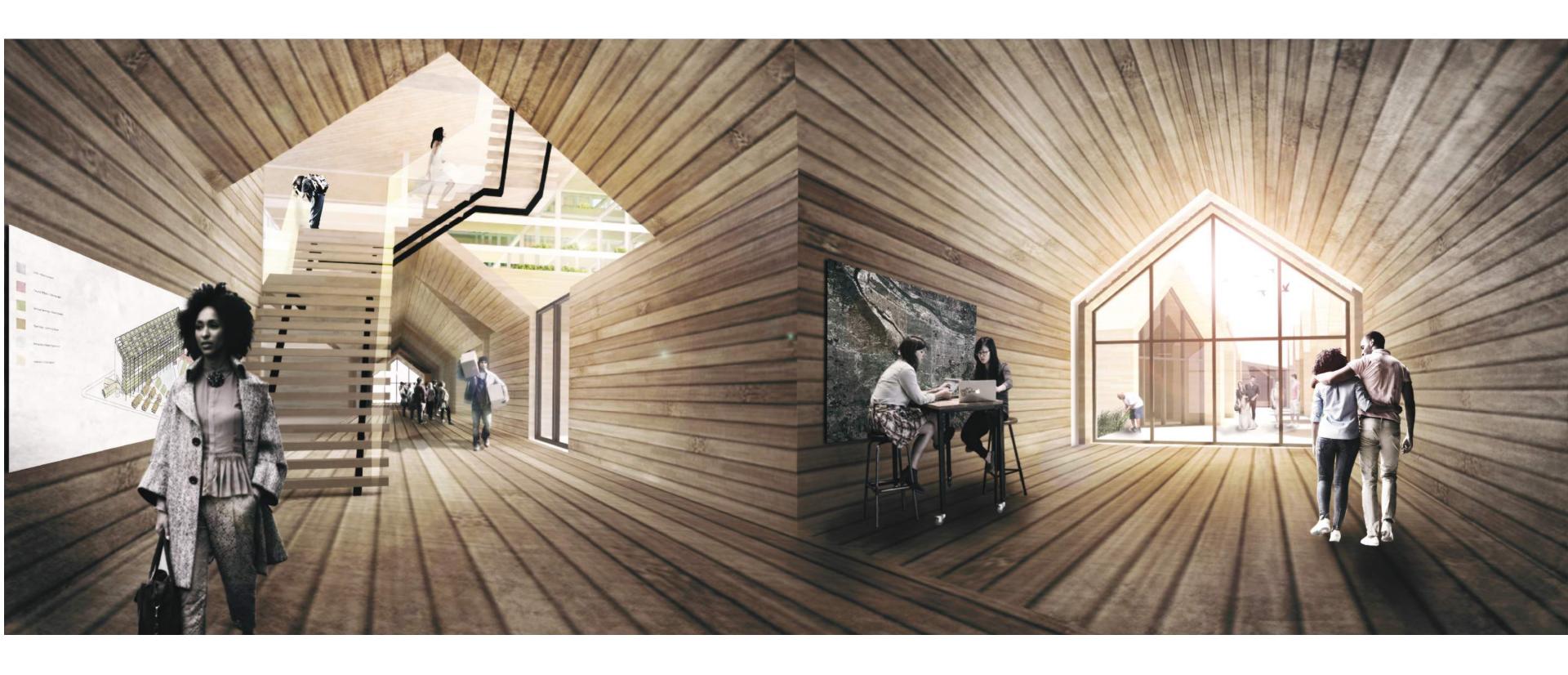










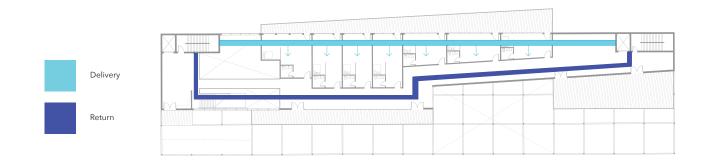


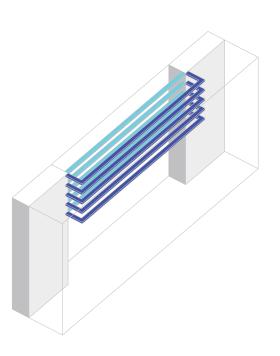






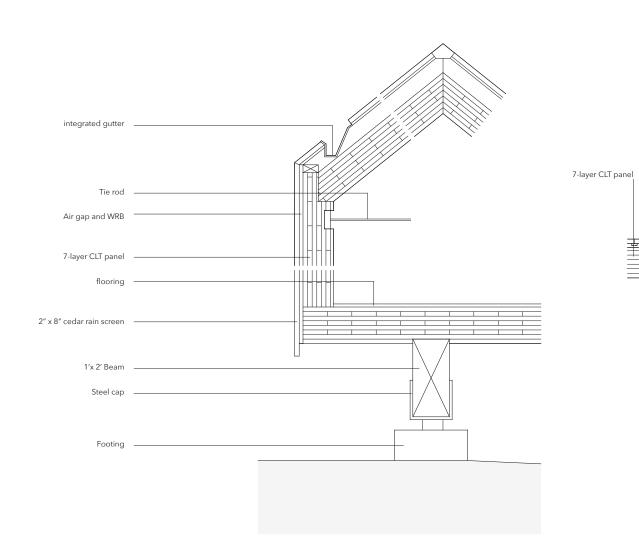












Polycarbonate glazing

Air gap and WRB

