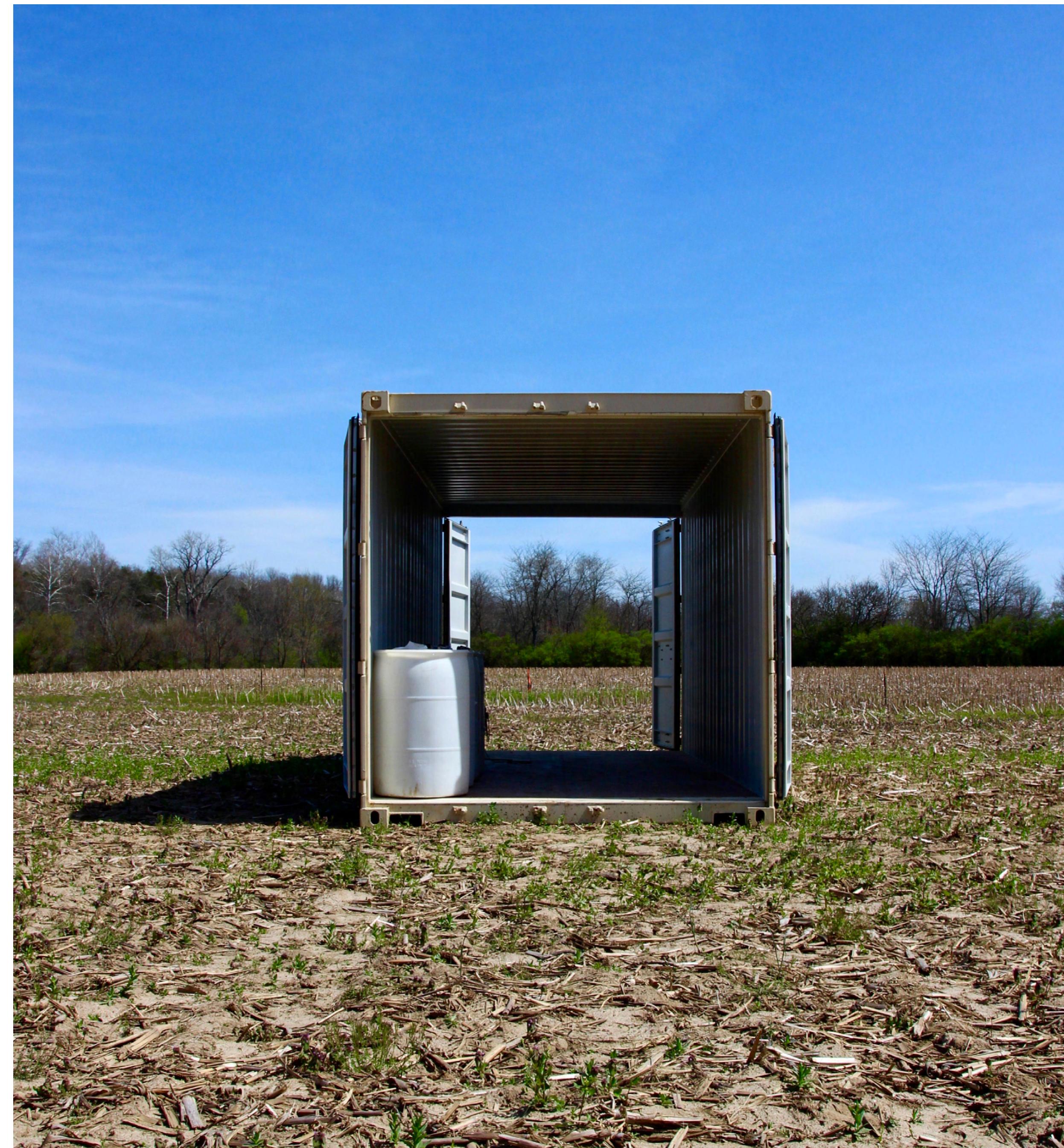


THE FIRST SEED

Institute for Food is an interdisciplinary collaborative exploratory initiative supported by Provost's Innovation & Interdisciplinary Fund and a 3-year commitment of an 8-acre parcel of University land to bring together our university communities around issues of food, health, and sustainable agriculture.

This studio addressed immediate design-build needs to provide the first infrastructure to serve as tool storage, outdoor "pack house" (a vegetable preparing and washing line). The challenges included not requiring any building permits, ability to relocate or disassemble with minimal impact to the site after three years, to complete it within six weeks to support farming operations, and to stay within a budget of \$10,000.



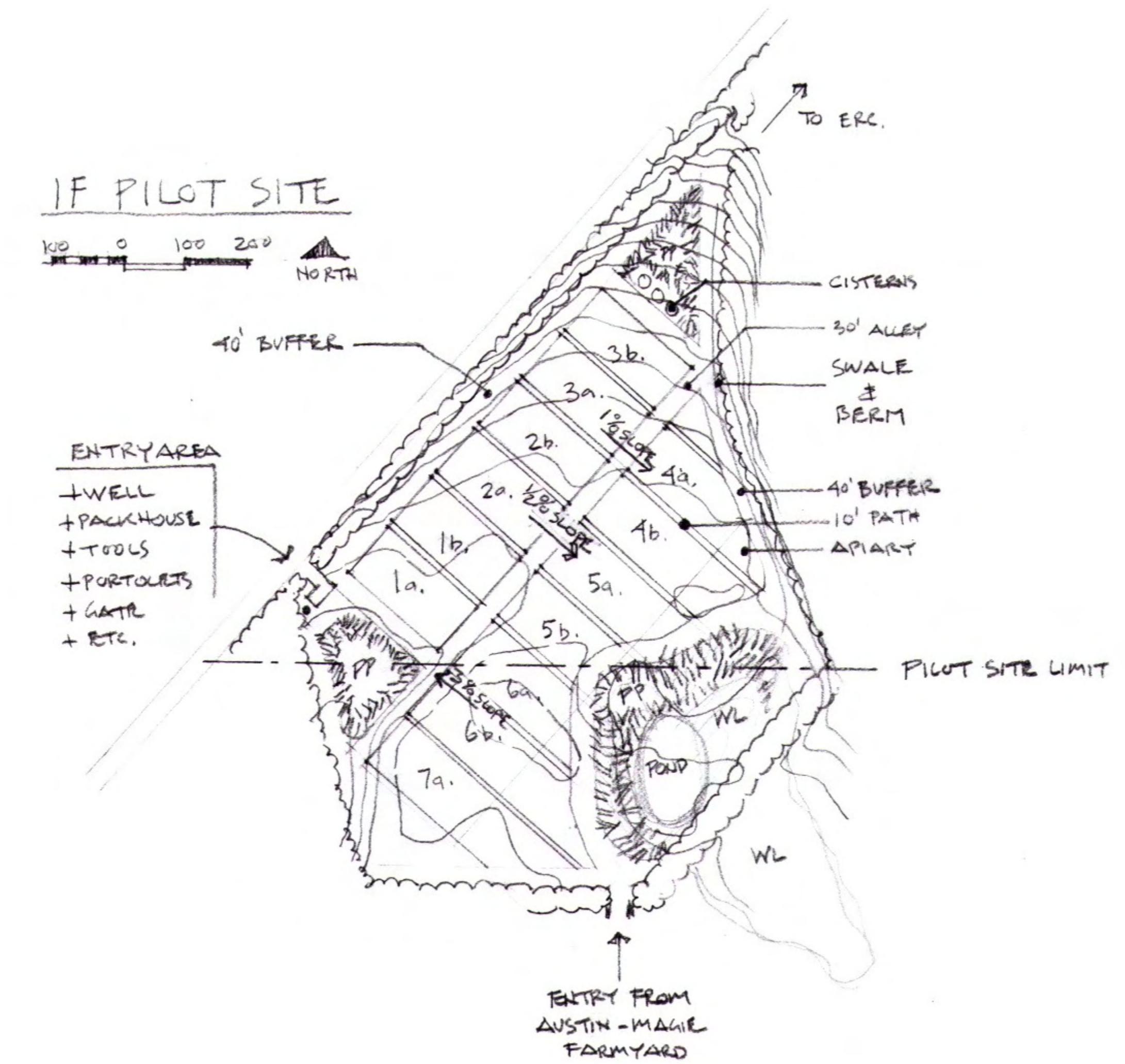
01. THE PROBLEM

The Institute for Food approached us with the need for a temporary storage space and pack house area for their first growing seasons, as our architecture studio this semester was focusing on designing for disassembly. Our lack of a building permit led to the decision to utilize a shipping container as the foundation of our design, and prohibited us from touching the ground in any way, or constructing a roof.

The site itself presented issues that included:

- wind movement through and around the container,
- sun shading,
- integration with the land.

These issues were brought to our attention at different times during the design process, forcing us to keep our ideas fluid, and adaptable to new situations. In addition, with the growing season already upon us, it was of utmost importance that the structure was completed this spring.



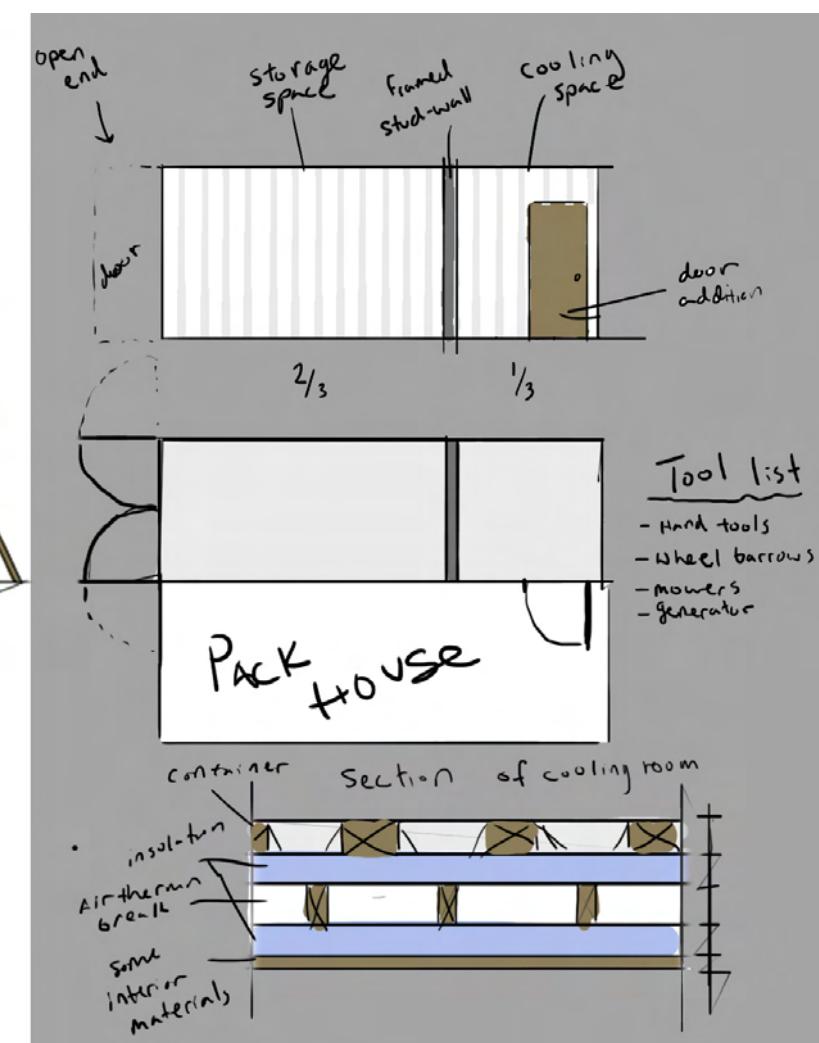
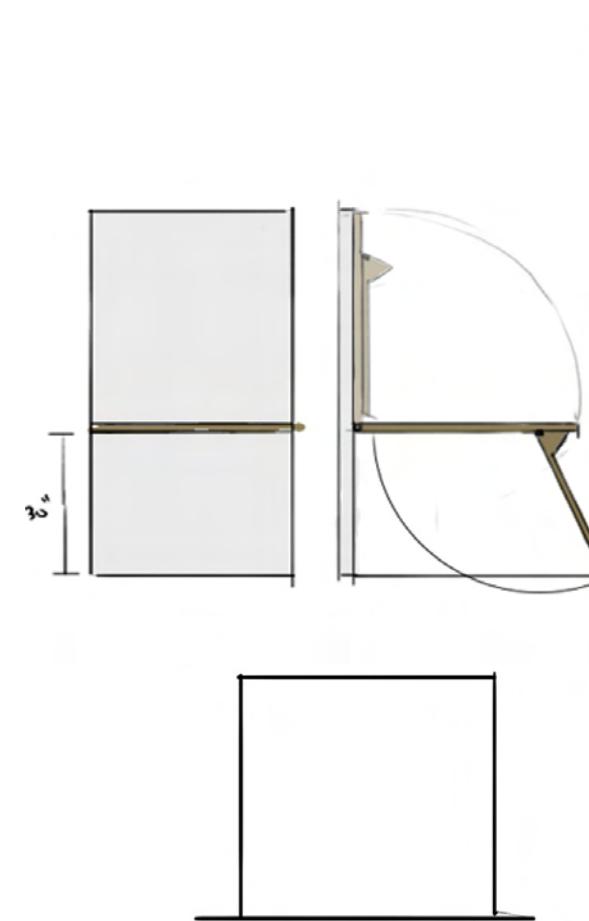
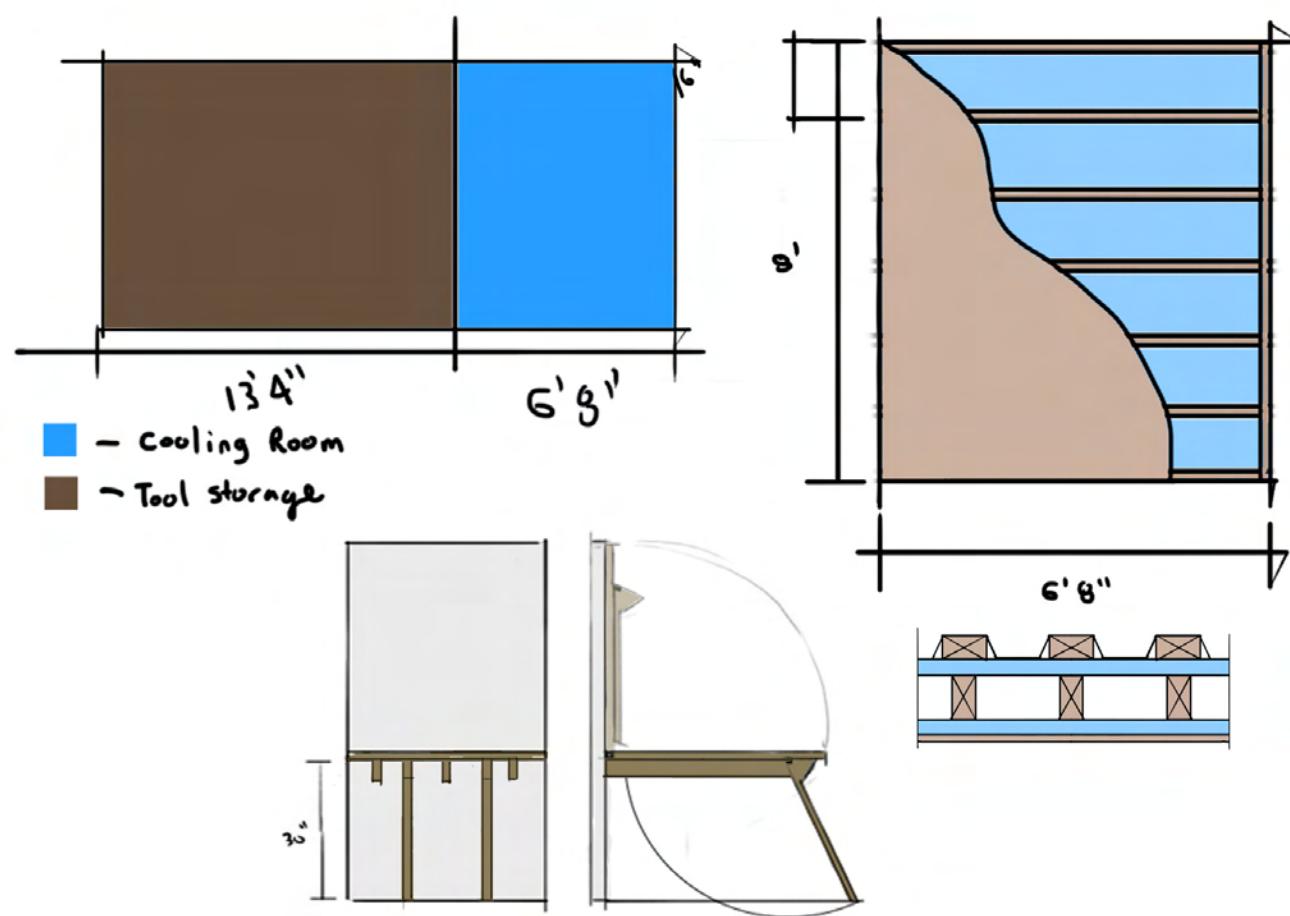
02. DESIGN DEVELOPMENT

Though our design was continually evolving, and changing throughout the design process, our project can be broken down into three phases.

Phase 1: We researched precedents, discovering the adaptability of shipping containers, and how others modified them to fit their means. We also explored the site, participating in landscape choreography, and researched farm needs, to better understand the programmatic requirements.

Phase 2: Our studio developed a design which incorporated a solid, water shedding roof, and side panels to protect the washline from debris. This model not only ran into structural issues, but also building permit issues. The container was oriented North-South (along the long axis). The interior of the container was separated into conditioned and non-conditioned halves.

Phase 3: The desire for a solid roof was abandoned, and instead we explored the possibilities of sun-shading techniques and how they could enhance the user experience at the site. We also designed a wash line for the exterior of the container. The container has been shifted and is now oriented East-West (along the long axis), so as to better shade the pack house from the sun. The interior of the container is solely used for storage and organization.



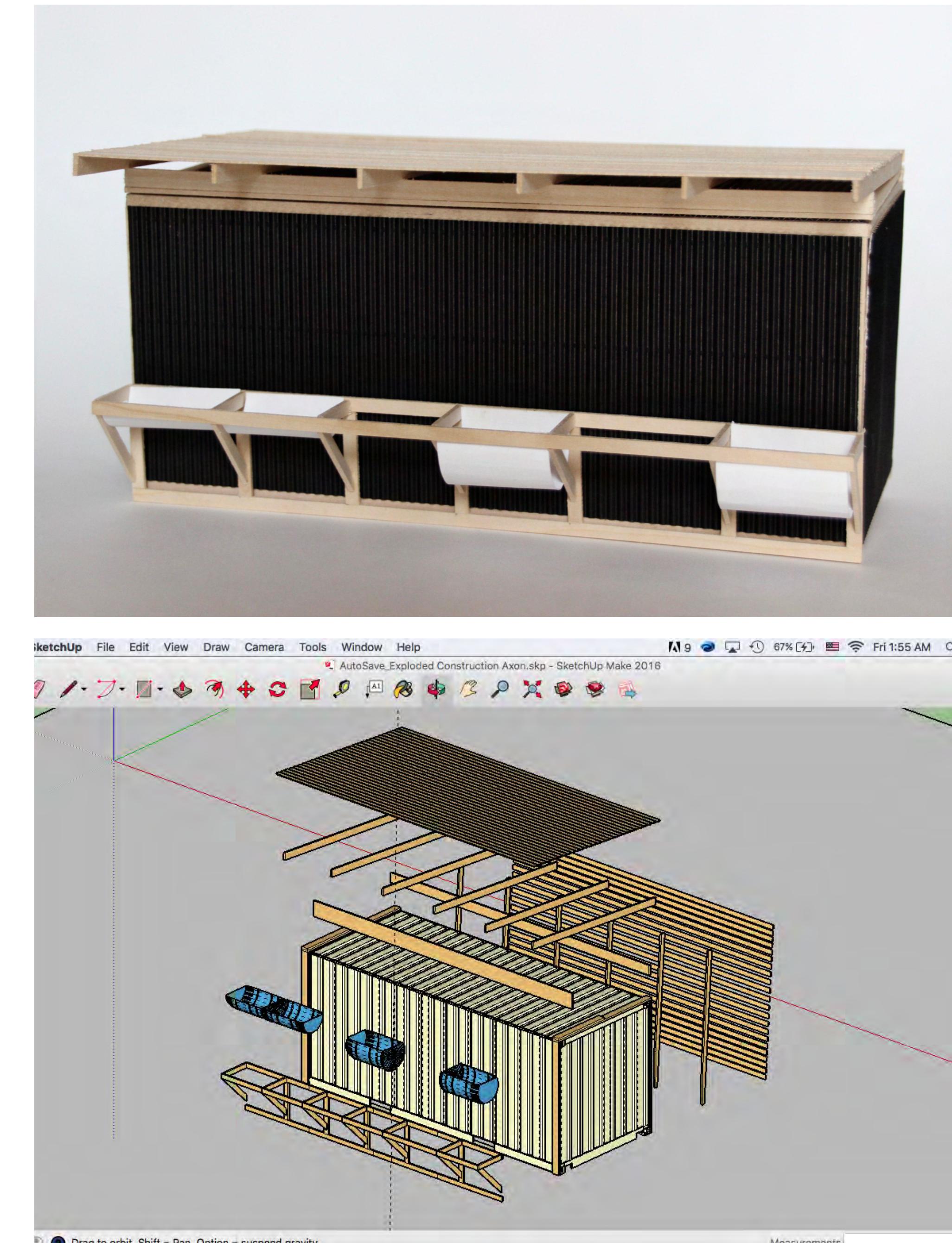
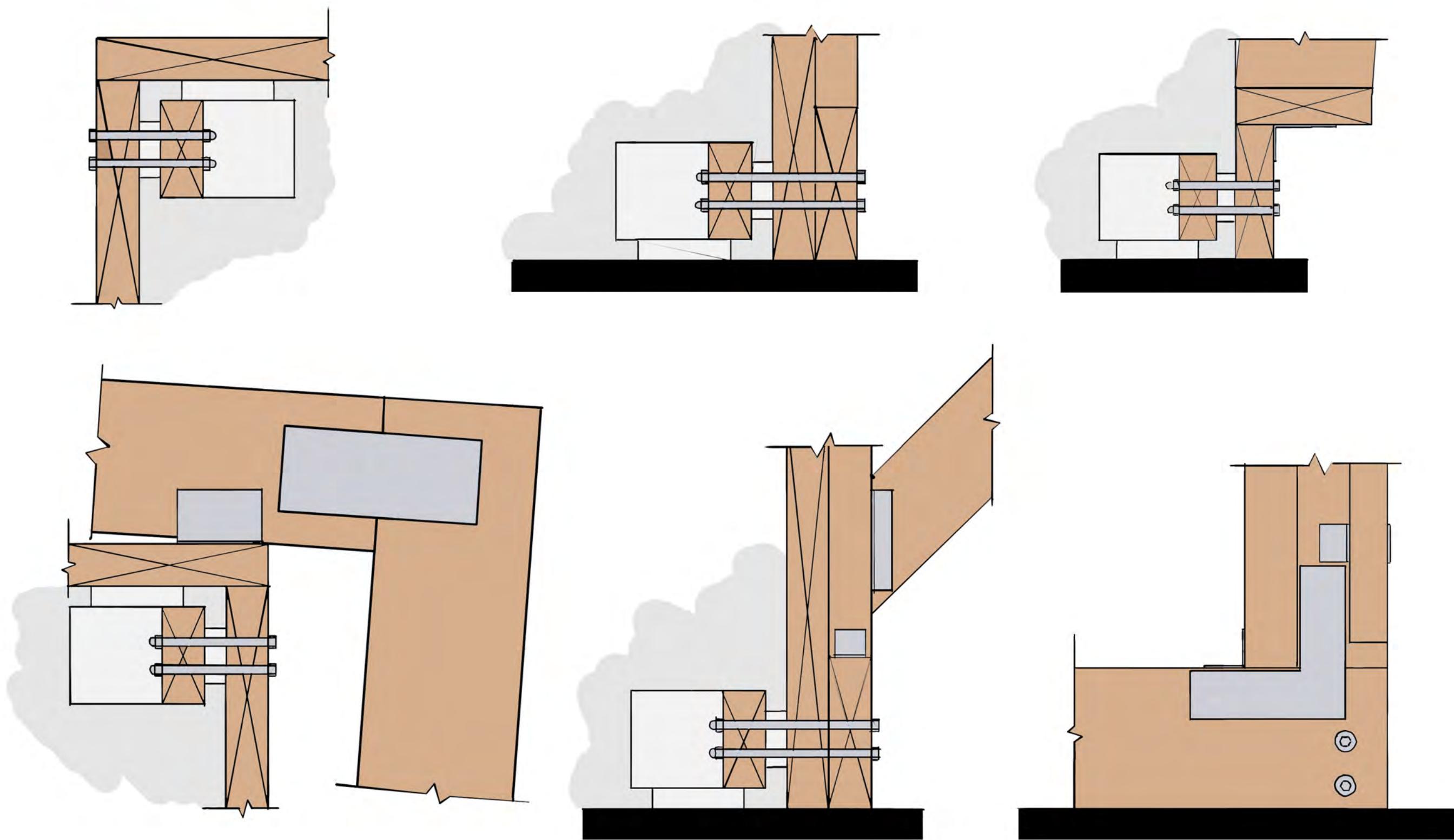
Phase 2



Phase 3

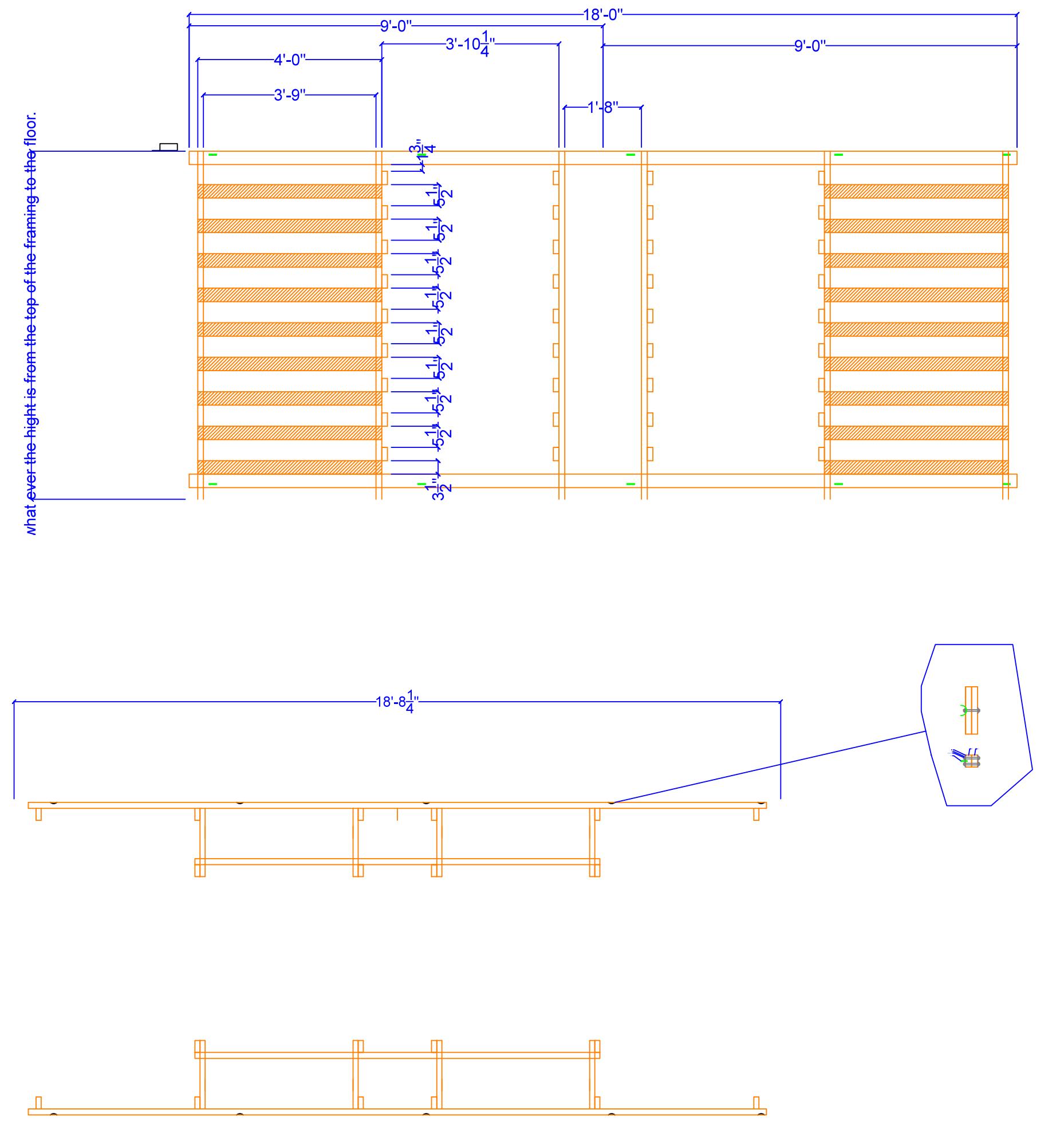
03. FINAL DESIGN: EXTERIOR

Our final design wants to celebrate the transient nature of our structure, and highlight the “guts of the operation”, through honesty of construction and orientation of the packhouse. The connections are all bracketed, allowing visitors to observe how the structure was assembled, as well as to make disassembly easier. The shading device not only helps shade the washline and prevents heat buildup in the container, but also allows the container to dissolve into the site, combining natural materials with the industrial qualities of the container itself.



04. FINAL DESIGN: INTERIOR

Currently in the construction phase, the interior elements were designed specifically for the types of tools which the Institute for Food students and educators would be using.

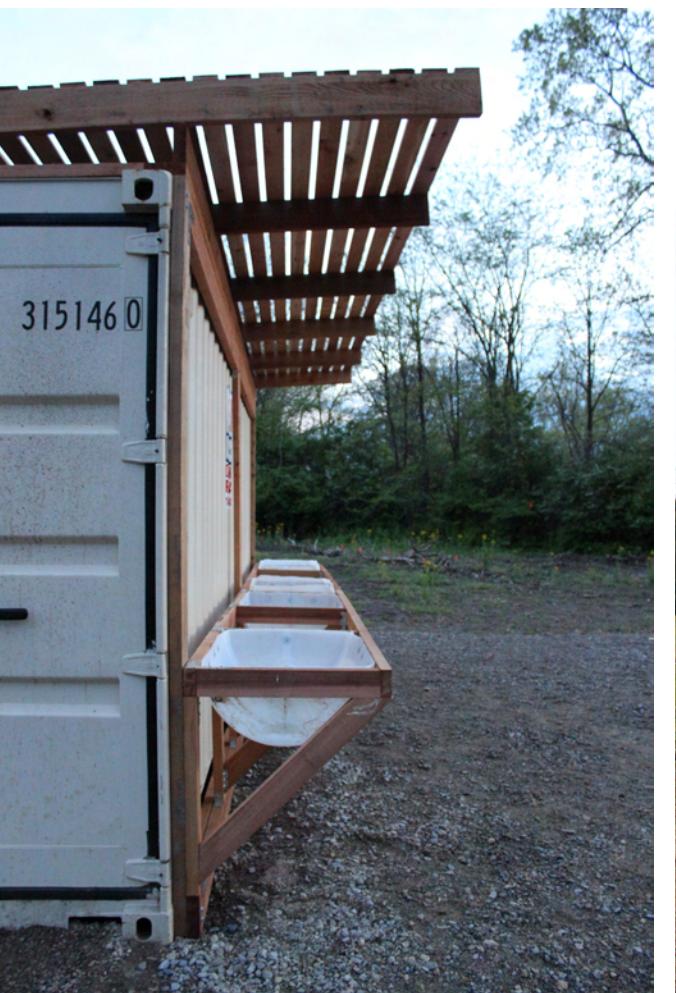


05. CONSTRUCTION

Construction took place over the course of a week. Please see our video to understand the construction sequence.



06. FINAL PRODUCT



07. POST-OCCUPANCY



THANK YOU. The Institute for Food; Ben Jacks, Professor of Architecture + Interior Design; Peggy Shaffer, Professor of American Studies + History; Jeremy Fruth, Manager at the Ecology Research Center; Lisa Staples, June Wolfe, and Ted Linebaugh of Benedict Enterprises, Inc. Monroe, Ohio; Ted Wong, Shoppist, Department of Architecture + Interior Design; Whitney Hamaker, Adjunct Assistant Professor, DAAP, University of Cincinnati; Josh Bryant, Department of Architecture + Interior Design; Marion Slater, Director of Manufacturing, Airstream; Kip Ping, Professor of Architecture + Interior Design.

THE FIRST SEED was designed and built by: Aditya Bali, Nicholas Carlson, Douglas Galucci, Royce Gates, Vincent Gregory, Gregory Heinrich, Luke Petalunas, Madison Scheper, Anna Serio, Ruben Victoria, Sarah Yeo, under the direction of Murali Paranandi, Professor of Architecture + Interior Design.

