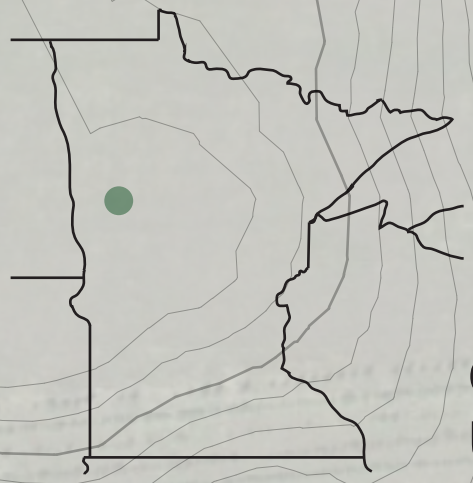
A Wetlands Research Laboratory

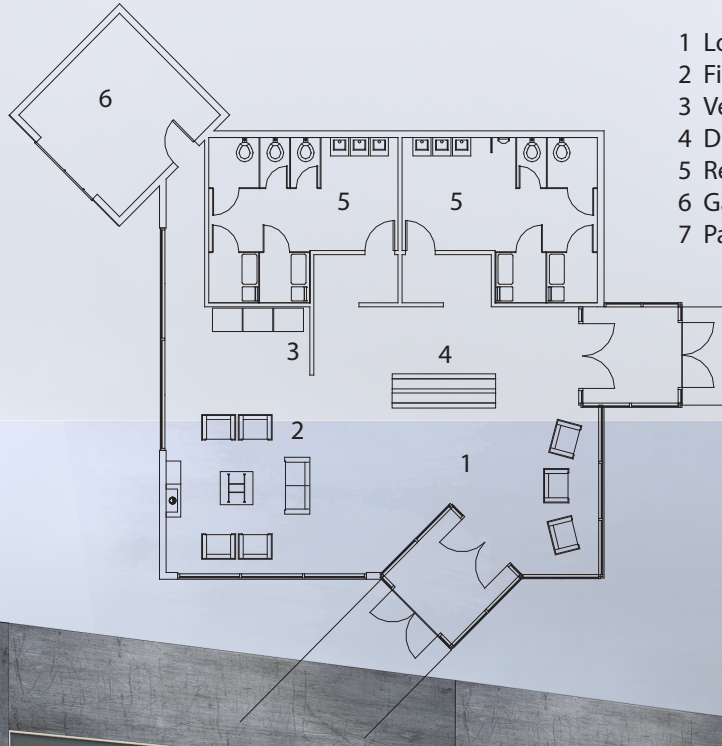
Katelyn Schmidt . Barnhouse . ARCH 771 . Fall 2014

The Site



Otte - Jacob Farm
Ullen, MN

The Arrival



1 Lobby
2 Fireplace Lounge
3 Vending
4 Display Area
5 Restrooms
6 Garage
7 Path to Laboratory

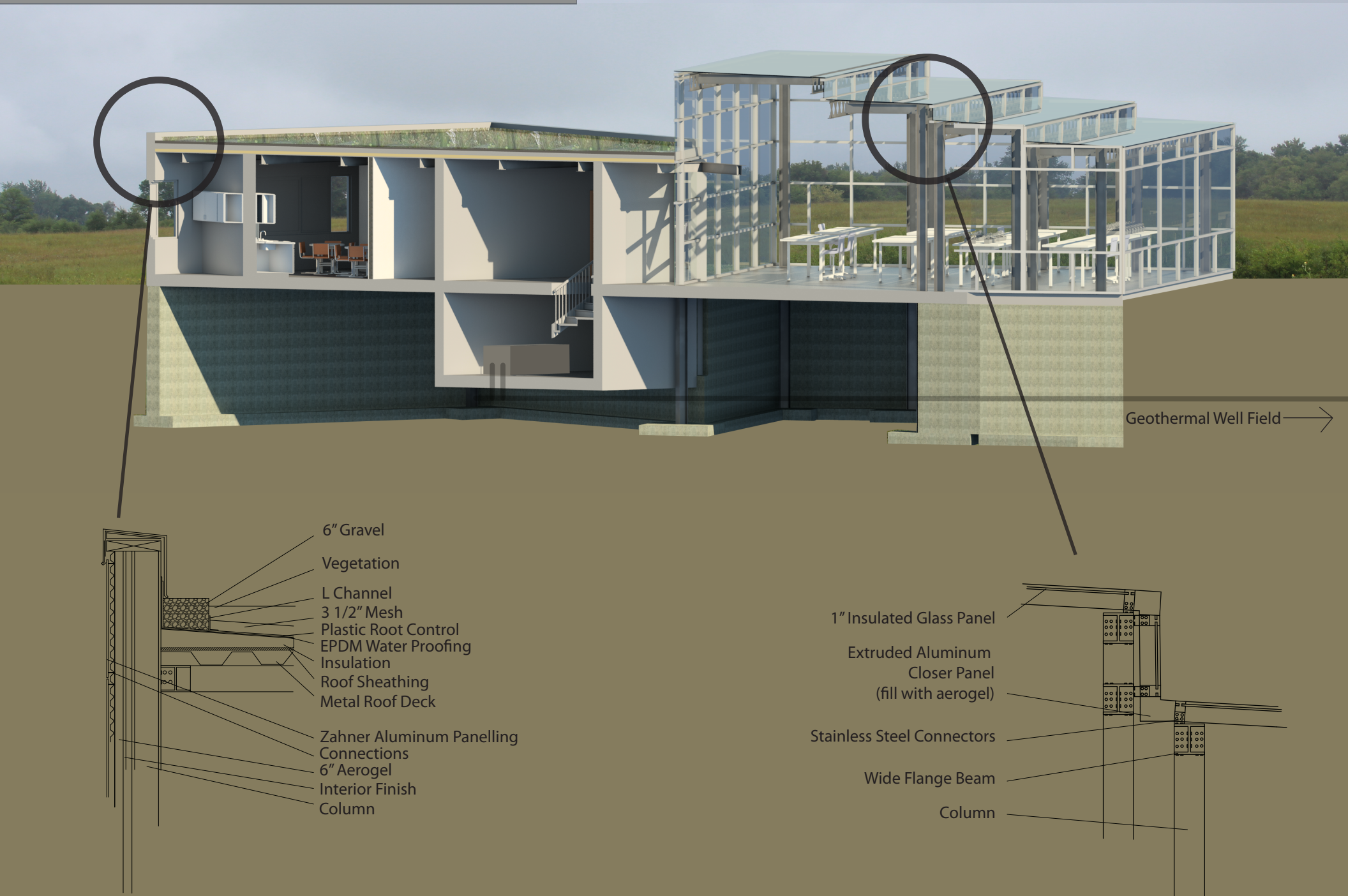
The Research Laborartory

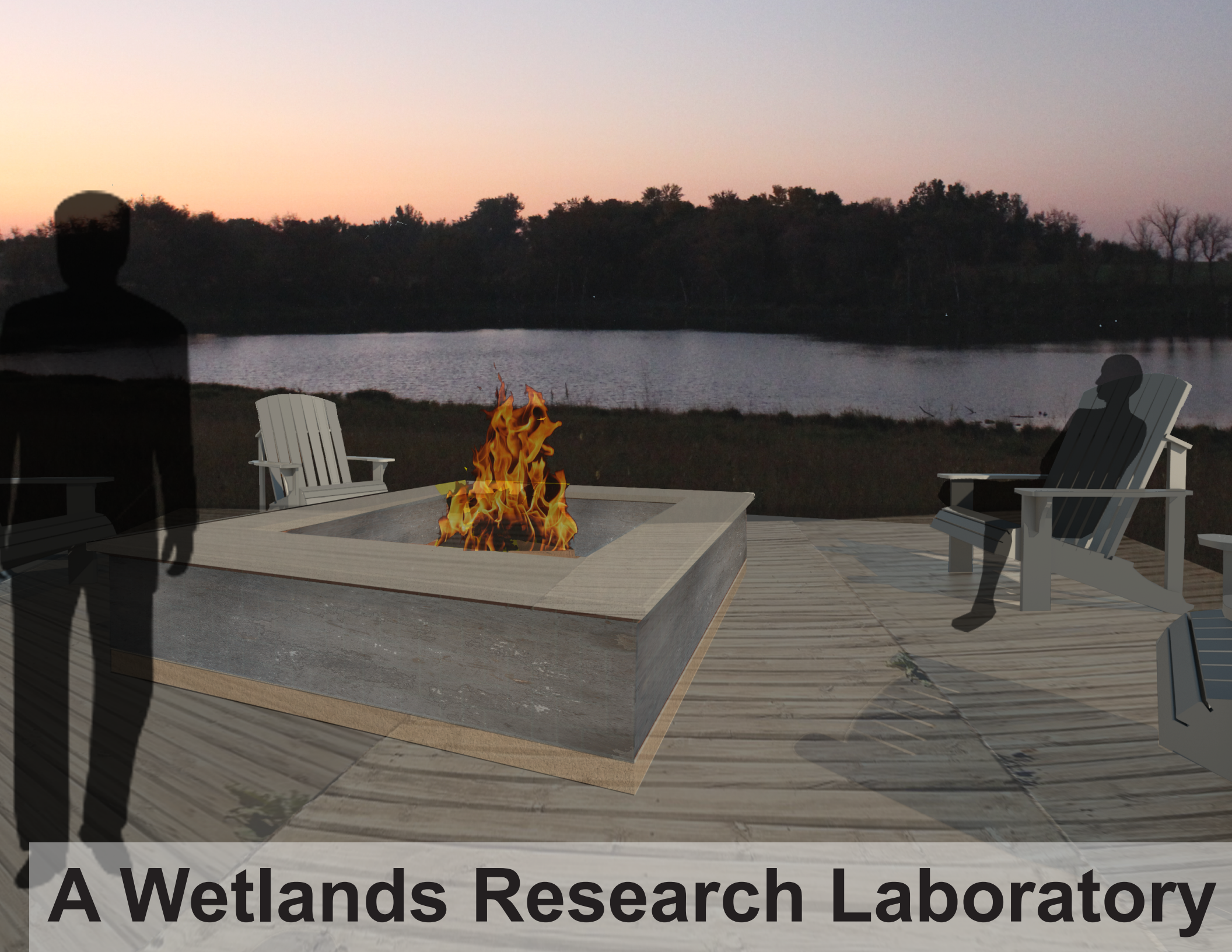
1
2
3
4
5
6
7
8
9
10
11
12
1 Reception
2 Offices
3 Presentation Room
4 Conference Rooms
5 Restrooms
6 Laboratory
7 Mechanical
8 Lounges
9 Workroom/Storage
10 Kitchenette
11 Greenhouse
12 Display Spaces

The Lab

The Greenhouse

Details


Geothermal Well Field
6" Gravel
Vegetation
L Channel
3 1/2" Mesh
Plastic Root Control
EPDM Water Proofing
Insulation
Roof Sheathing
Metal Roof Deck
Zahner Aluminum Panelling
Connections
6" Aerogel
Interior Finish
Column
1" Insulated Glass Panel
Extruded Aluminum
Closer Panel
(fill with aerogel)
Stainless Steel Connectors
Wide Flange Beam
Column



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