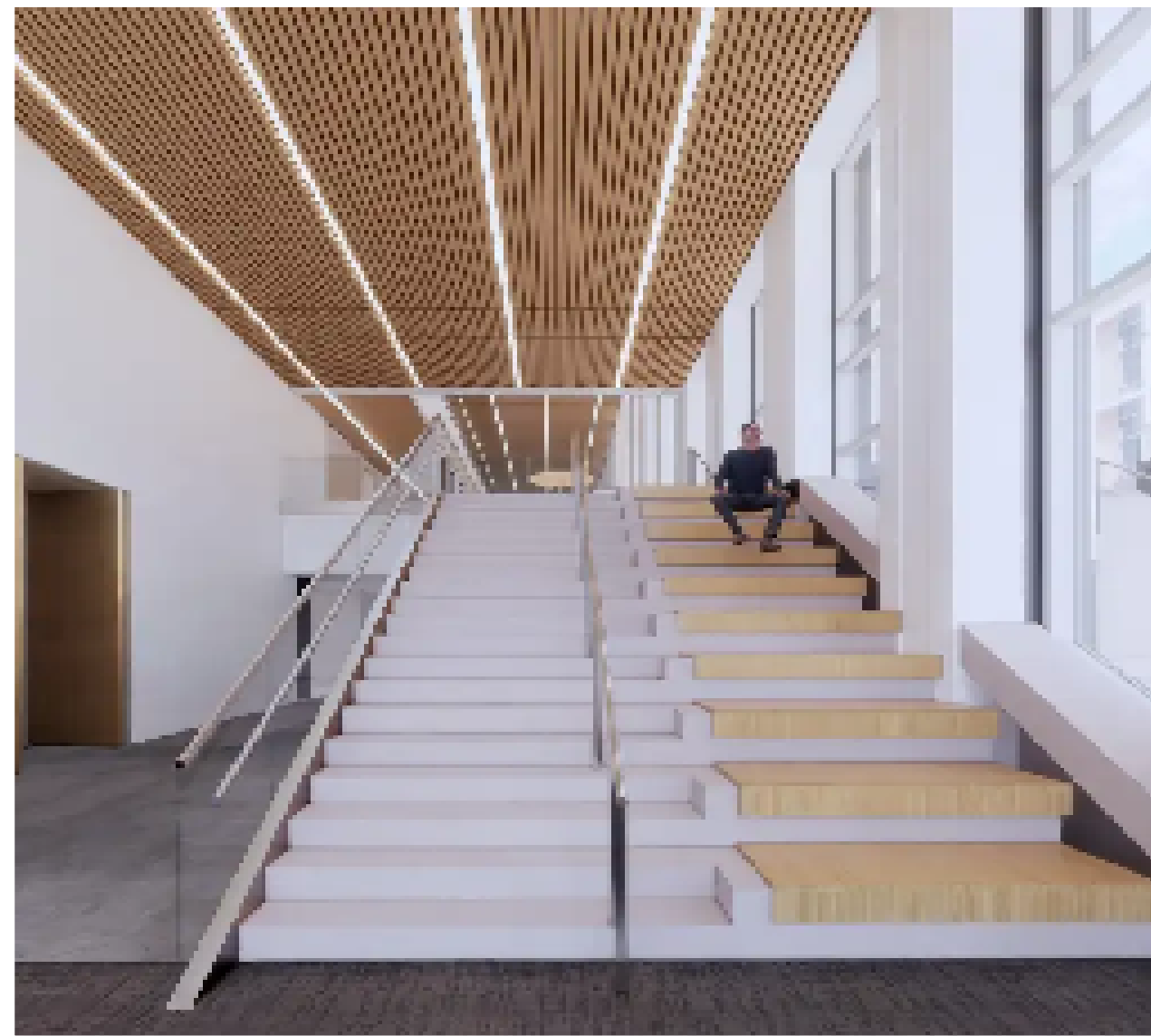


PROJECT DESCRIPTION

The proposed Leinweber Computer Science and Information Building will be 163,000 square feet in size and aims to expand the Computer Science and Engineering Department while also relocating the School of Information to North Campus. The building will offer a modern, collaborative environment designed for both departments, with features such as active learning classrooms, research labs, office space, and student services. experience and reduce environmental impact.

Located at the northwest corner of The Grove, the building will link residential and academic facilities through a multi-level pathway. It will be powered by the Hayward Street Geothermal plant, supporting a sustainable, all-electric infrastructure. This design prioritizes sustainability and functionality to improve the academic experience and reduce environmental impact.



NATURAL VENTILATION + DAYLIGHT

The open stairwell promotes natural ventilation, reducing the need for cooling while maximizing daylight.

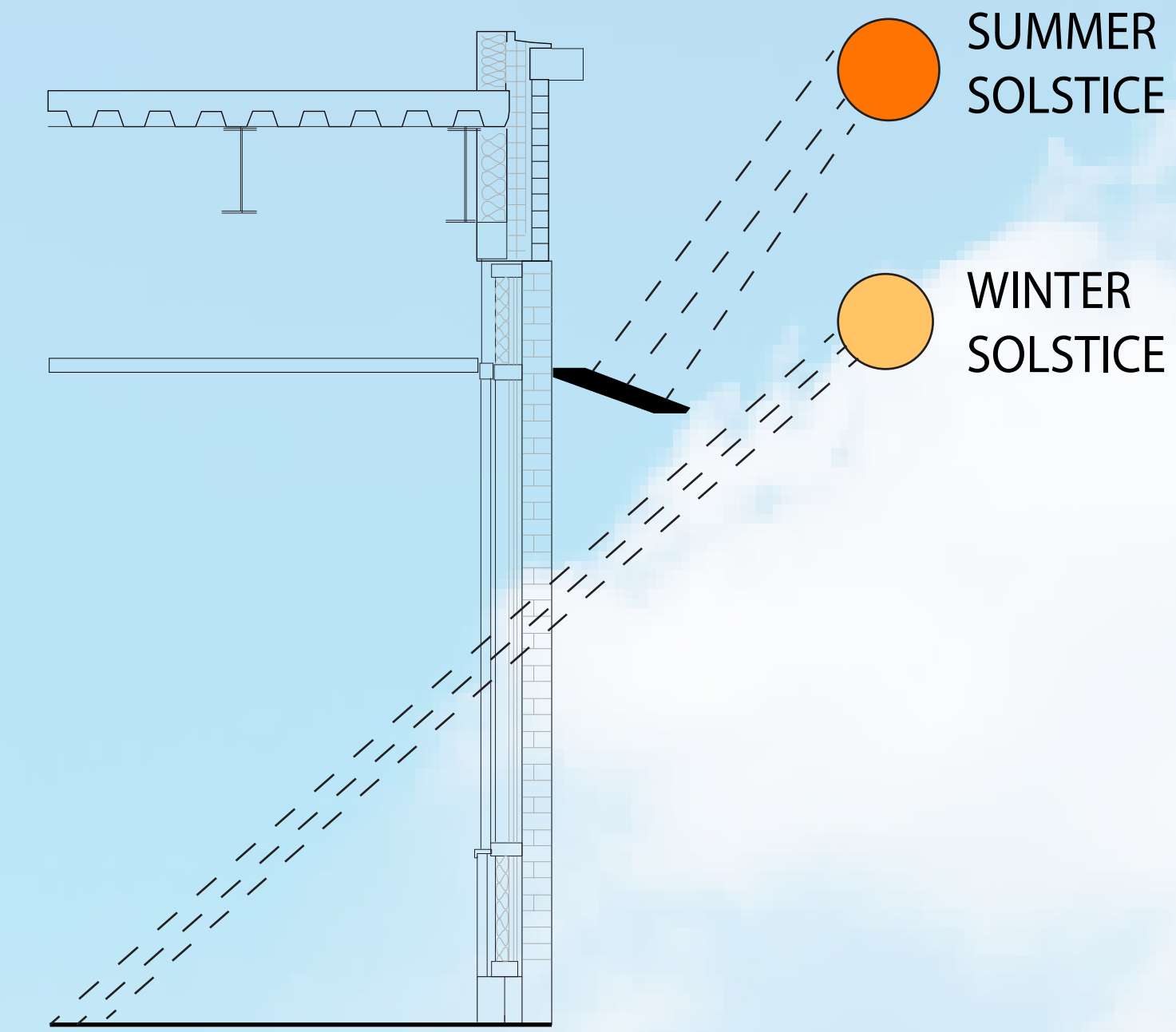
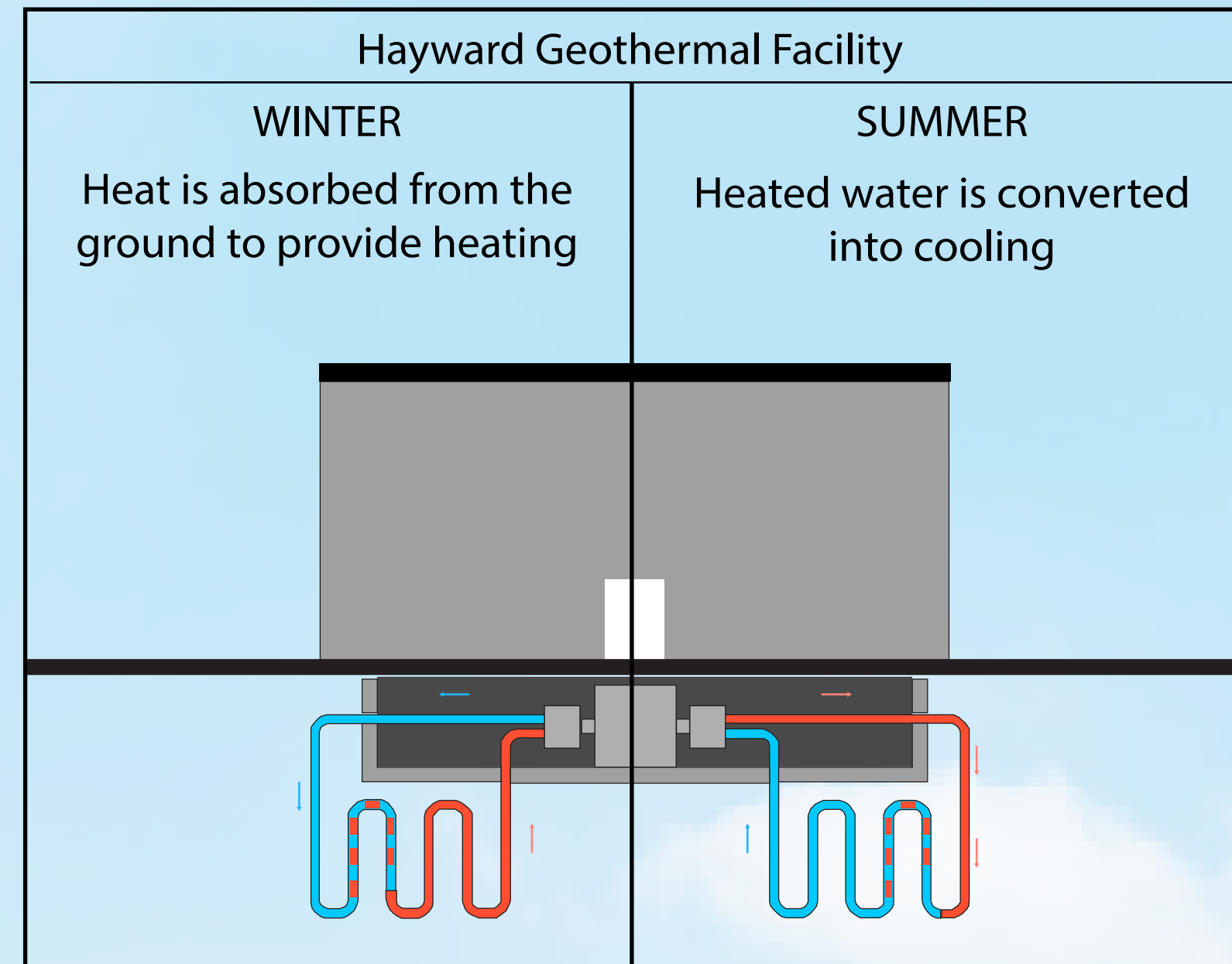


VEGETATED ROOF

Over 25% of the total roof area is made up of a vegetated roof system consisting of low meadow grasses, sedges, ferns and trees. The vegetated roof will assist in rainwater management while encouraging biodiversity.

ALL ELECTRIC:

The Hayward Geothermal facility will provide heating and partial cooling to the building. The rest of the cooling will come from the all-electric North Campus Chiller Plant. The Leinweber building is expected to achieve carbon neutrality once the university secures the 100% Power Purchase Agreement.

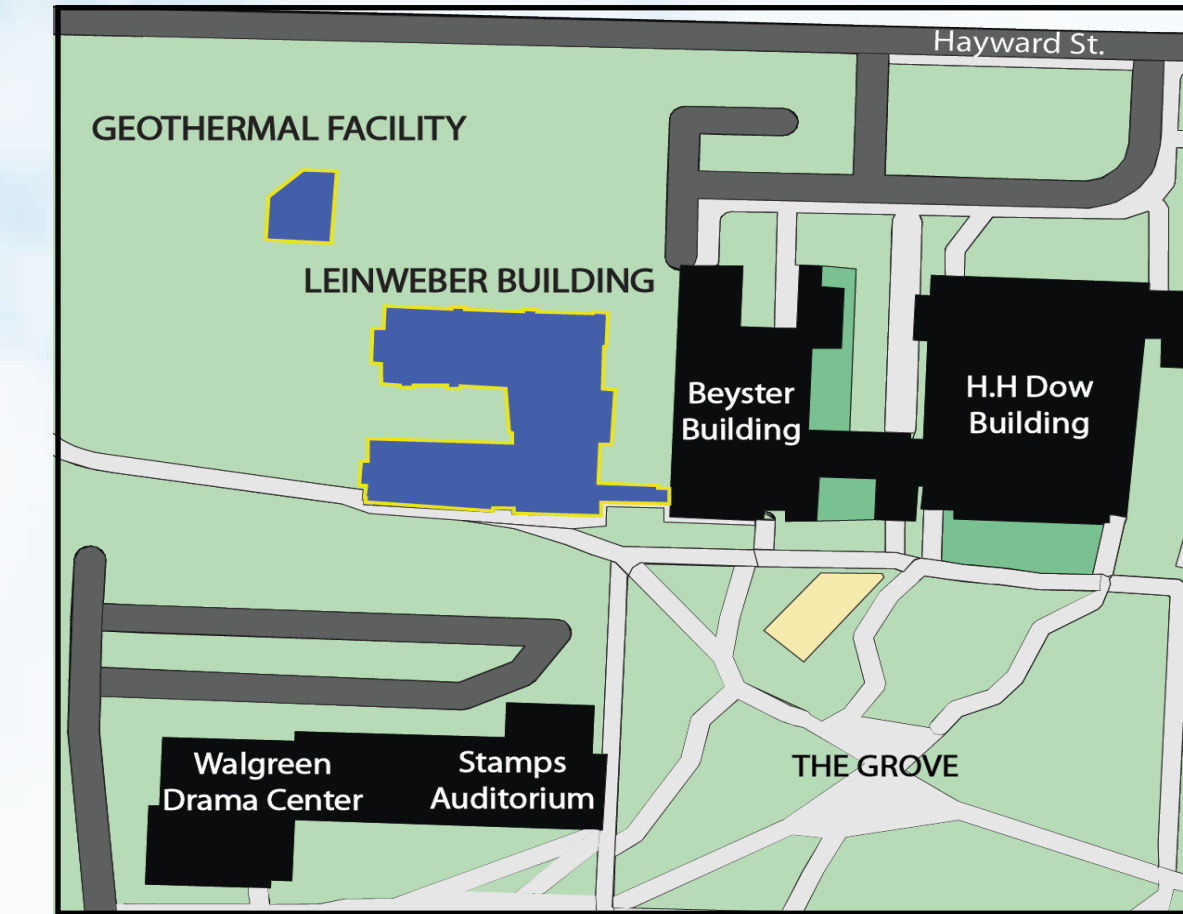


HIGH-PERFORMING ENVELOPE

22% Window-to-wall ratio optimizes daylight and thermal performance while minimizing glare. The integrated sun shades play a crucial part in this as they keep direct sunlight away in the summer and allow it in during the winter.



PROJECT SITE



Sustainability Facts

Leinweber Computer Science & Information

Building Use	College of Engineering
Location	Ann Arbor, Michigan
Size	163,000 Square Feet
Number of Occupants	2,960

ASHRAE 90.1 version	2013
Energy cost saving compared to ASHRAE baseline	34%
Total energy savings	\$126,680 / Year
Total electrical savings	1,032,462.3 KWh / year
Total natural gas savings	N/A- All Electric
CO2 emissions avoided	1,184.9 Metric tons

Water fixture baseline	2018 Michigan Plumbing Code
Total water savings	26%
Construction/Demolition waste diverted from landfill	TBD

Insulation (R-Value)*	Code	Project
Wall assembly - above grade	18.5	23
Wall assembly - below grade	18.5	23
Roof assembly	15.63	23.81

Glazing - Curtain Wall System		
U-Value**	0.35	0.28
Solar Heat Gain Coefficient (SHGC)**	0.40	0.27

Glazing - Fixed Assembly		
U-Value**	0.35	0.28
Solar Heat Gain Coefficient (SHGC)**	0.40	0.27

Glazing - Visible Light Transmittance (VT)***		
	1.10	71%

Project Team	
Owner	University of Michigan - College of Engineering
Architect	Pelli Clarke & Partners with Integrated Design Solutions
Engineer	Integrated Design Solutions
Contractor	Walbridge Aldinger Company
MEP Commissioning Authority	U-M AEC
Building Envelope Commissioning	Smithgroup
Project Management	U-M AEC

Design Period: 11/2019 - 04/2022
 Construction Period: 05/2022 - FALL 2025

* The higher the R-value the better the insulating quality
 ** The lower the U-Value and SHGC the more energy efficient the window
 *** The higher the VT value the more daylight in the space, VT is measured between 0 and 1



Leinweber Computer Science and Information Building