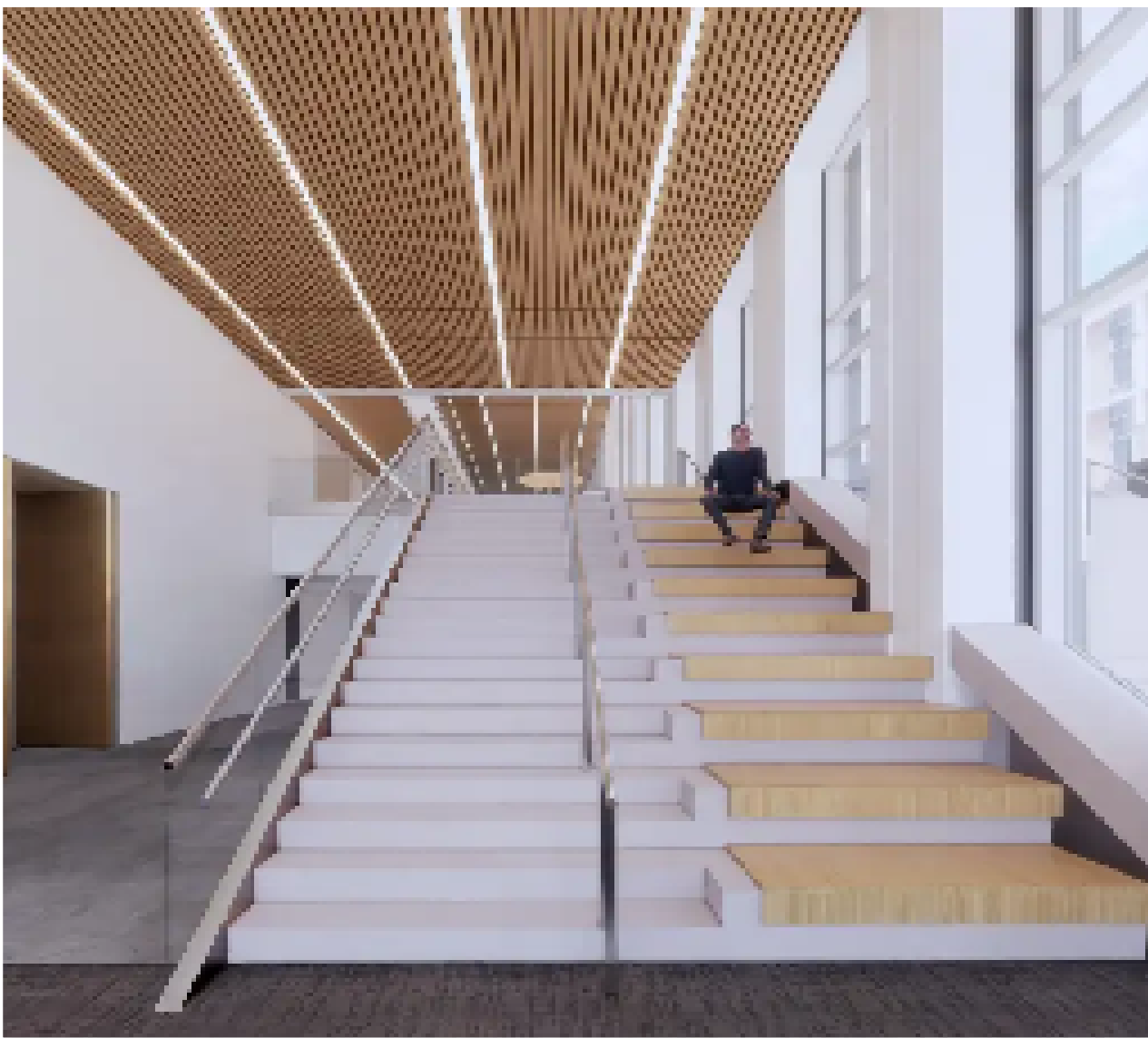


PROJECT DESCRIPTION

The proposed Leinweber Computer Science and Information Building is approximately 163,000 square feet in size and expands the Computer Science and Engineering Department while also relocating the School of Information to North Campus. The building offers a modern, collaborative environment designed for both departments, with features such as active learning classrooms, research labs, office space, and student services.

Located at the northwest corner of The Grove, the building links residential and academic facilities through a multi-level pathway. It is an all-electric facility powered by the Hayward Street Geothermal plant. The building design prioritizes both sustainability and functionality by improving the academic experience while also reducing environmental impact.



NATURAL VENTILATION + DAYLIGHT

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

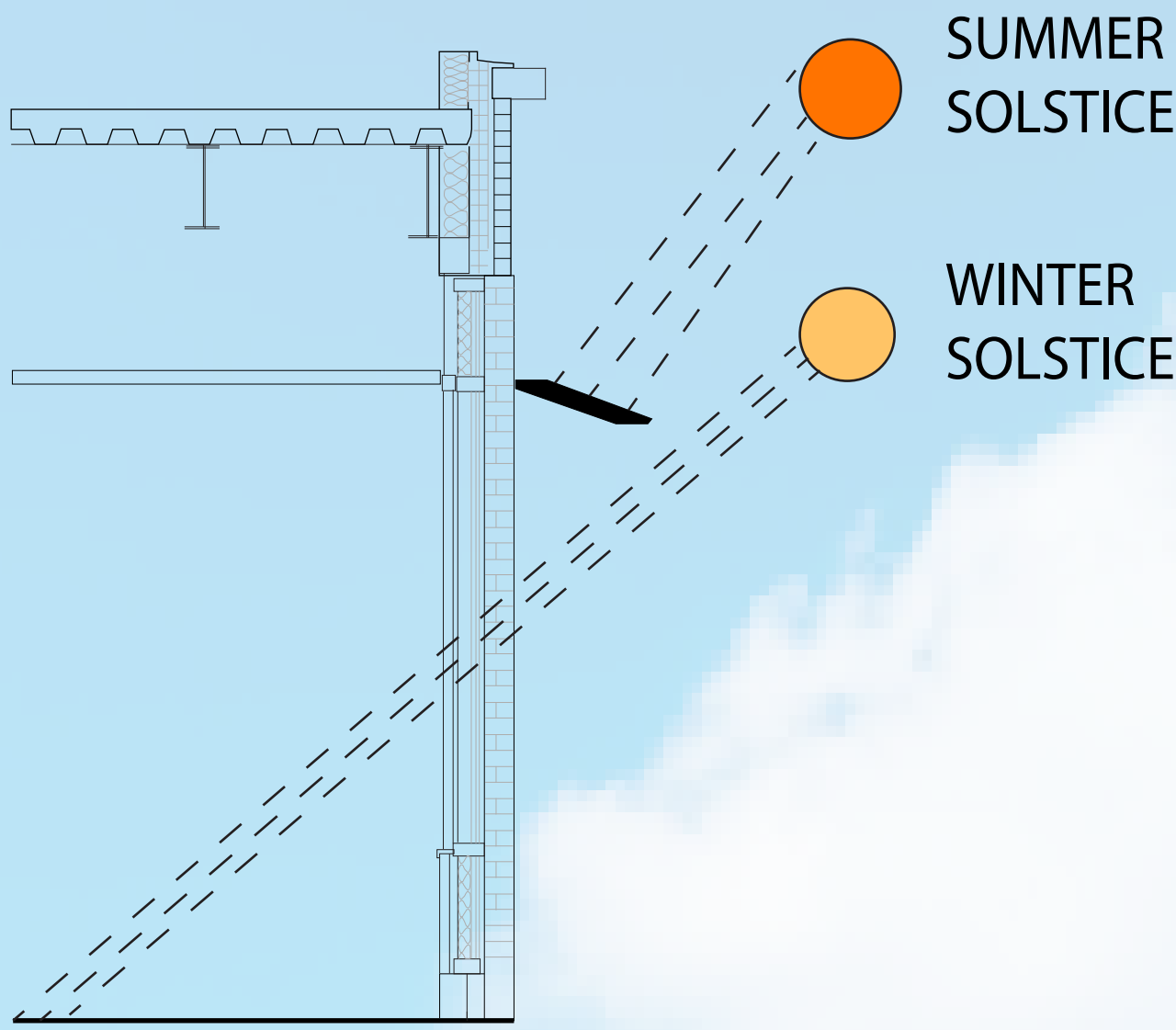
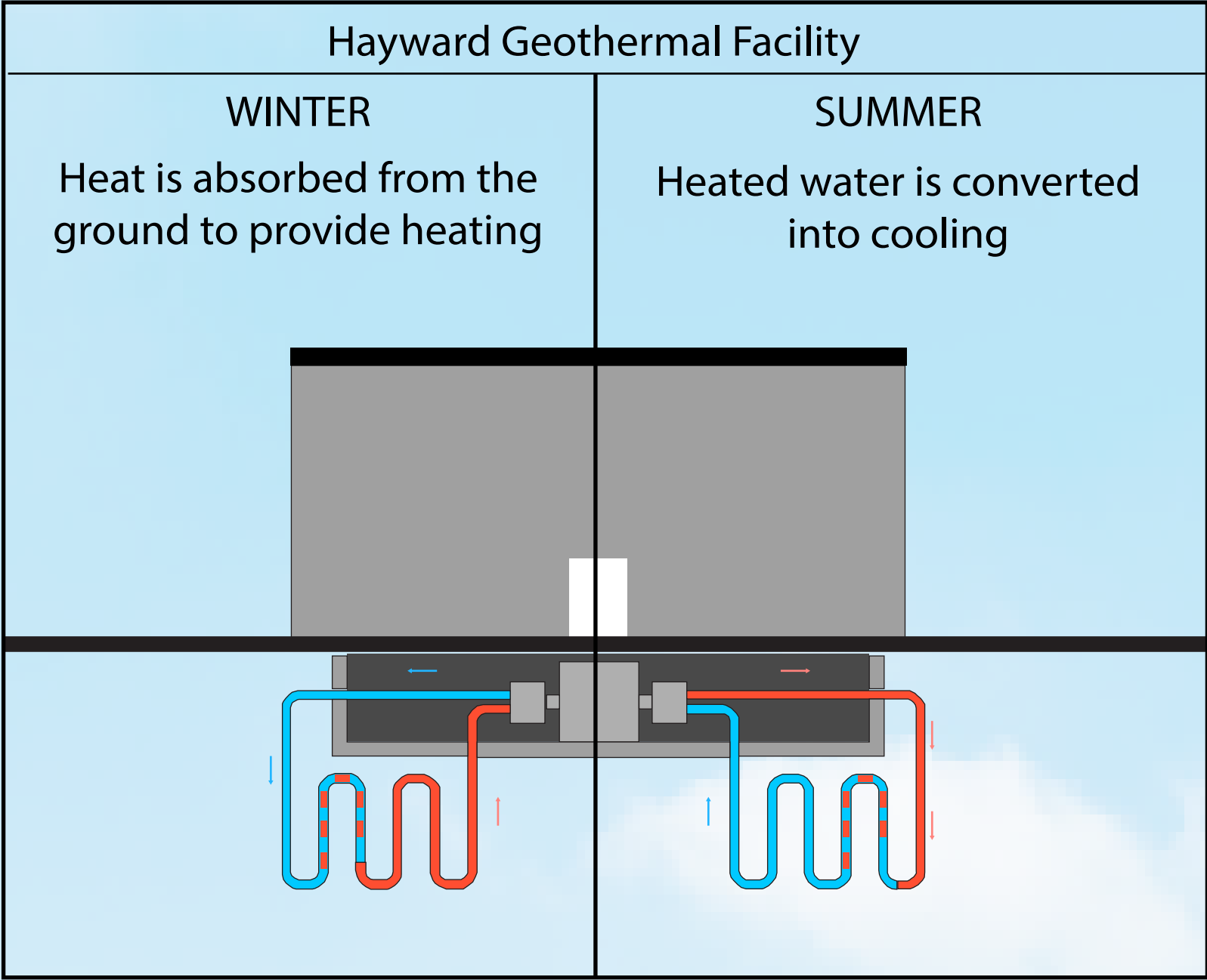


VEGETATED ROOF

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 assists in rainwater management while encouraging biodiversity.

ALL ELECTRIC:

The Hayward Geothermal facility provides heating and partial cooling to the building. Additional cooling needs are provided by 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.



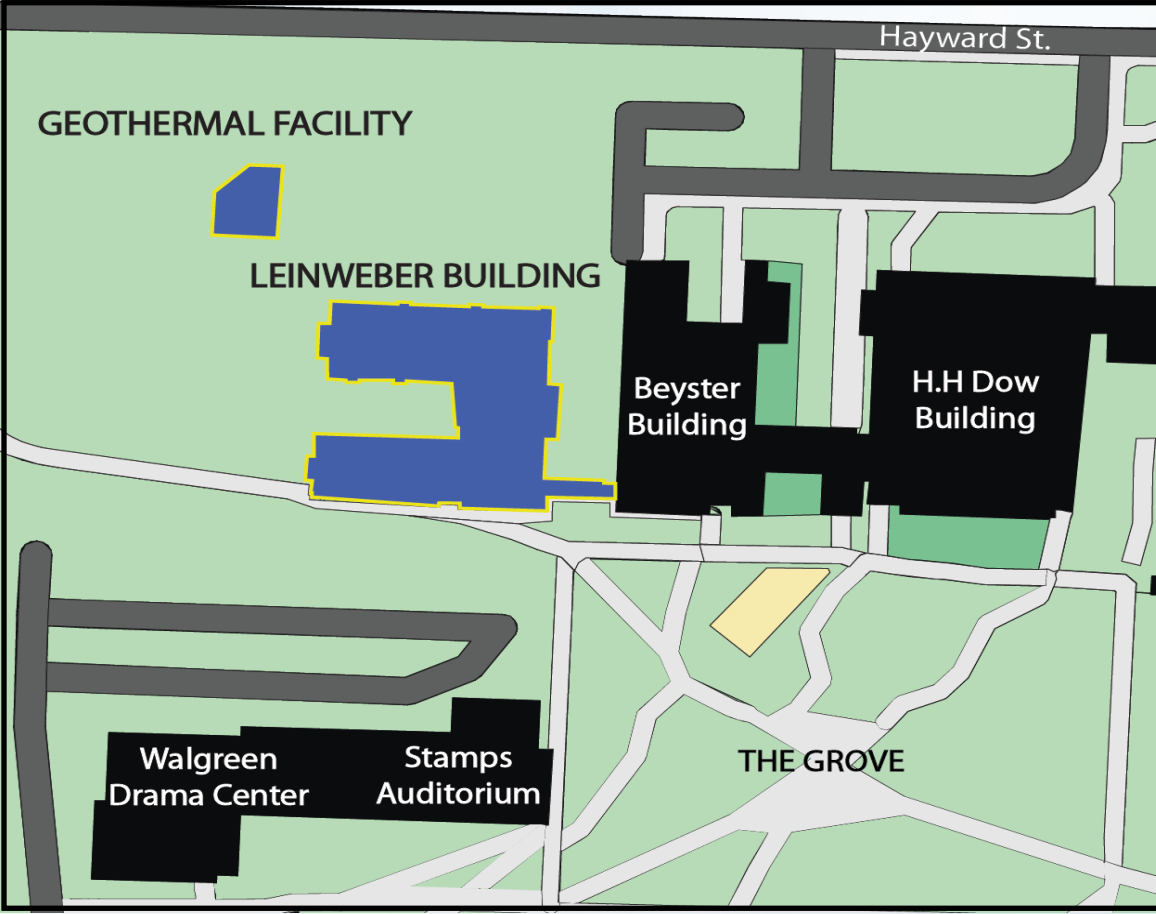
HIGH-PERFORMING ENVELOPE

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.

BIRD DETERRENT GLAZING

The vertical line pattern on the exterior glass provides visual markers to prevent bird collisions.

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

LEED version	v4
LEED certification level	Gold
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 KWh / year
CO2 emissions avoided	1,185 metric tons
Water fixture baseline	2018 Michigan Plumbing Code
Total water savings	26%
Construction/Demolition Waste diverted from landfill	72%

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	0.71

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

*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



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