



# Project Description

Located on an existing prominent pedestrian and corridor, the new Central Campus Recreation Building (CCRB) Replacement functions as a symbol of the university's commitment to the student experience. Visual transparency into and through the replacement CCRB showcases modern gymnasiums, a track for jogging and walking, spaces

for weight and cardiovascular training, group exercise rooms, aquatics, climbing areas, and courts for squash and racquetball. This new campus destination will not only improve the physical health and wellness of students but will encourage community building while creating important connections through recreation.

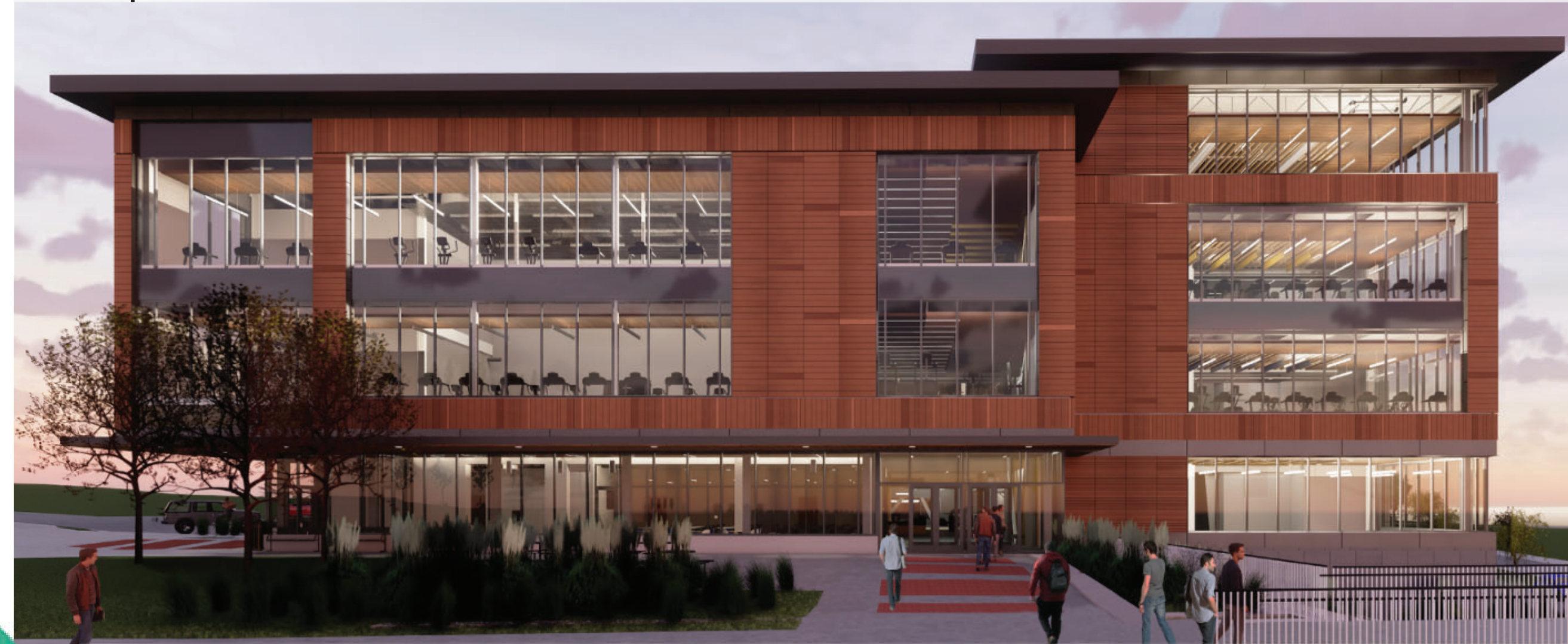
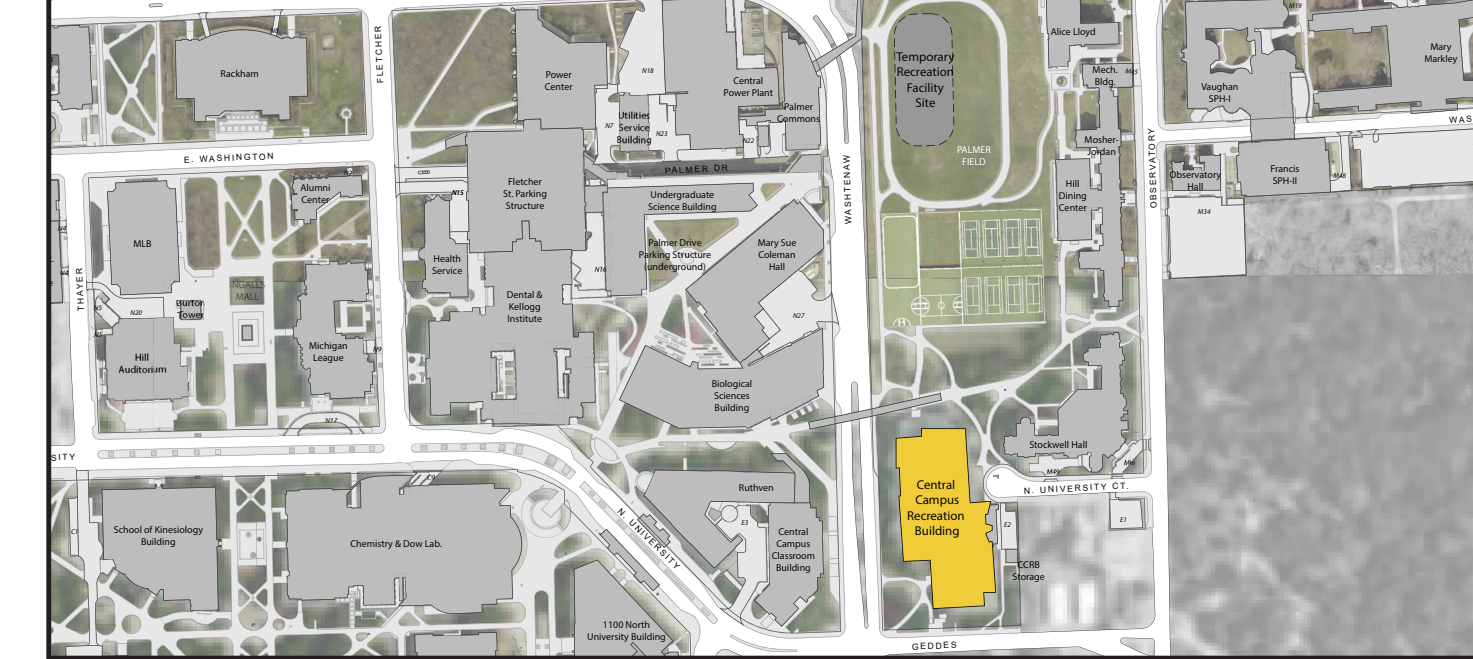
## Carbon Reduction:

The building systems were designed to greatly reduce reliance on steam, and cut fossil fuel usage in half when compared to a traditional building.

## Views:

Direct views into the north and west windows showcase building activities while individuals inside the facility will have direct portals to selected views over Central Campus and Palmer Field.

## Project Location: Central Campus



## Sustainability Facts

### New Central Campus Recreation Building

Building Use	Student Life
Location	Ann Arbor, Michigan
Size	200,000 Square Feet
Number of Occupants	270 Regular; 536 Peak Load

LEED version	v4/ v4.1	
LEED certification level	TBD	
ASHRAE 90.1 version	2013	
Energy cost savings compared to ASHRAE baseline	37%	
Total energy savings	\$505,461/ year	
Total electrical savings	1,015,177 kWh / year	
Total gas savings	117,521 Therms / year	
CO2 emissions avoided	1,341 metric tons	
Water fixture baseline	2012 Michigan Plumbing Code	
Total water savings	28%	
Construction/Demolition waste diverted from landfill	TBD	
Insulation (R-Value)*	Code	Project
Wall assembly - above grade	18.2	24
Wall assembly - below grade	7.5	7.5
Roof assembly	30	33
Glazing - Curtain wall system		
U-value**	0.55	0.33
Solar Heat Gain Coefficient (SHGC)**	0.40	0.46
Visible Light Transmittance (VT)***	1.10	23

Project Team		
Owner	University of Michigan - Student Life	
Architect	Integrated Design Solutions with RDG Planning and Design	
Engineer	IDS	
Contractor	Barton Malow Company	
Commissioning Authority	U-M AEC	
Project Management	U-M AEC	

Design Period: 02/2019 - 08/2022  
 Construction Period: 12/2022 - 06/2025  
 \* 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



## Well-Being:

Robust and well-rounded building spaces provide opportunities for effective programming within all eight (8) area of campus wellness, the very foundation of this programming effort. As the chart shows, this rich combination of spaces creates inclusive opportunities all around.



## Daylight:

Strategically placed windows provide ample natural light that filters through multiple layers of active zones while reducing glare and providing views into and out of the building.



## Site Redevelopment:

Located on the same site of the former CCRB, the replacement building benefits from the Central Campus location while minimizing new infrastructure requirements, and reducing new land disturbance.