Carleton College

New Residence Halls going for gold

Pursuing LEED NC Gold Certification under the U.S. Green Building Council
sustainable site

Building sited to create quad with usable open space and views

Landscape designed with native vegetation and no irrigation system

Parking lots with porous pavers minimize stormwater run-off

Storage rooms within the buildings provide space for securing bicycles

Preferred parking spaces designated for fuel-efficient vehicles and carpools
energy + atmosphere

High efficiency lighting with daylight and occupancy sensors will conserve electricity

Building envelope constructed of insulated concrete forms for increased thermal performance

Radiant in-floor heating system will result in thermal comfort compared to conventional heating energy savings and

Solar thermal hot water system heats domestic water with roof-top collectors

Third party commissioning agent to review all mechanical engineering systems for maximum efficiency
materials + resources

Priority given to materials with recycled content throughout project.

Main lounges to have floors made from salvaged wood.

Building designed with easily accessible recycling and composting locations.

75% of construction waste will be diverted from landfill for recycling or reuse.

20% of building materials manufactured within 500 miles of Northfield.
water efficiency

Plumbing fixtures selected to reduce water consumption by 30% more than a traditional building.

Rain gardens and surrounding landscape will include plants native to Minnesota.

Plant species examples: White Oak, Northern Pin Oak, Swamp White Oak, Dwarf Bush Honeysuckle, Sedges, and Gray Dogwood.
innovation + design

Reduction in CO2 emissions by using high volume of fly ash in all concrete

Radon mitigation system in each building for healthy indoor environment

Green housekeeping program eliminates toxic cleaning products

Sustainable education program includes interior signage and real-time energy and water use monitoring and web display
Project goal of highest possible indoor air quality for residents through selection of materials with **low-emitting volatile organic compounds**

Lighting and heating controls for **improved comfort**

**Natural daylighting and views** in all rooms