




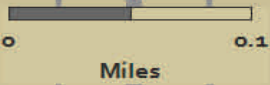
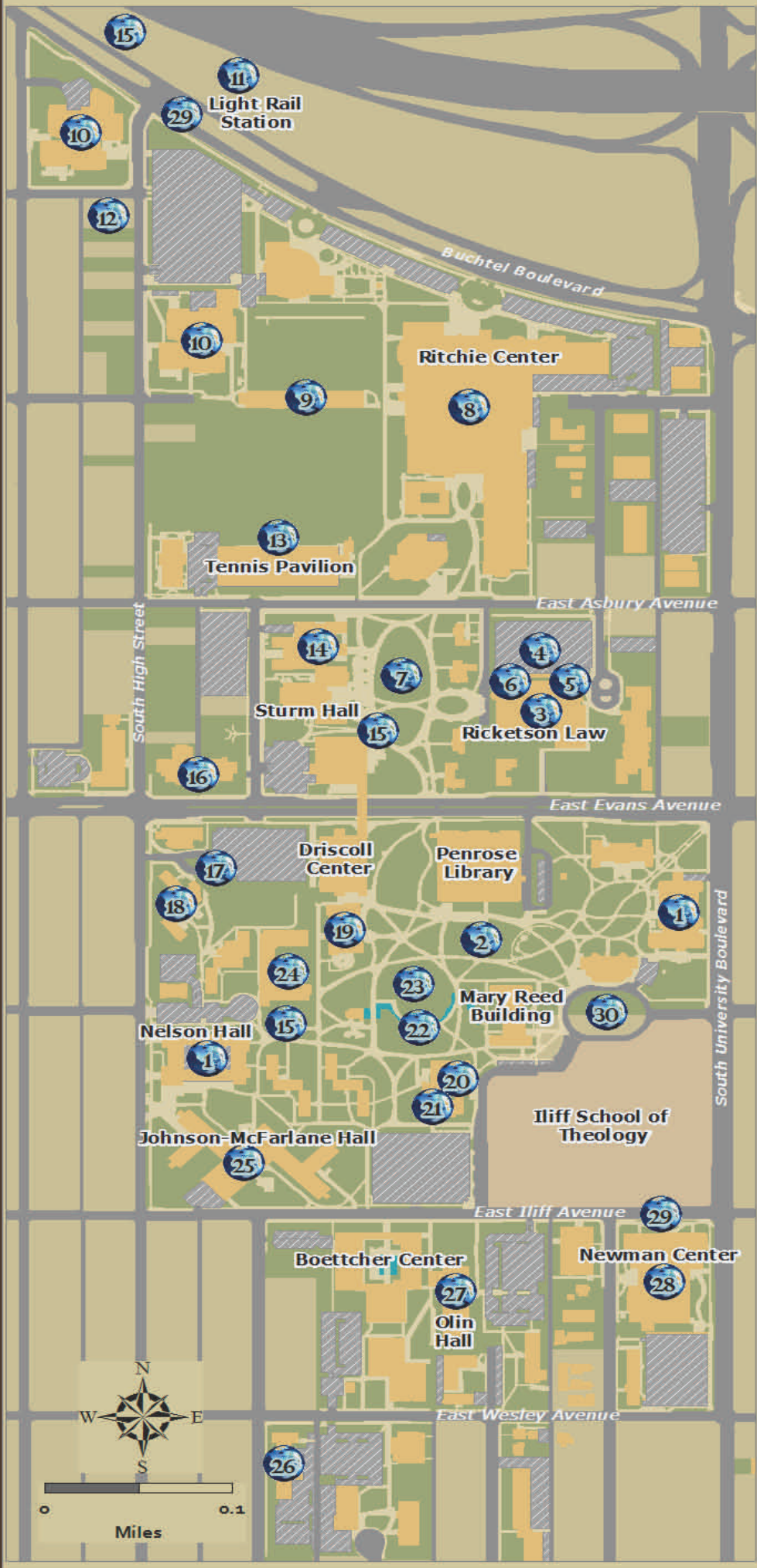
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SUSTAINABILITY SITES

-  ILIFF SCHOOL of THEOLOGY
-  BUILDINGS
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UNIVERSITY OF DENVER CAMPUS SUSTAINABILITY FEATURES

1. GREEN ROOFS

Parking garages at the Daniels College of Business and Nelson Hall utilize green roofs to provide rainwater control and decreased albedo.

2. CHESTER M ALTER ARBORETUM

The 125-acre main campus is a designated arboretum, providing educational opportunities for sustainable management of trees and integration of human and natural environments.

3. RICKETSON LAW BUILDING

This is the first building in Colorado and the first law school in the nation to obtain LEED Gold certification. The sustainable features of this building include high thermal mass construction, recycled building materials, locally sourced materials, and low-water urinals.

4. ELECTRIC CAR-CHARGING STATIONS

The Ricketson Law Building parking garage has stations equipped to charge electric cars. This feature encourages employees with electric cars to commute more sustainably.

5. STANDARD CONSTRUCTION

Locally sourced brick, recycled copper, cast-in-place concrete, and wood trim without stain are construction standards employed in all new DU buildings. These base materials increase the longevity of campus buildings.

6. CISTERN

A cistern below Ricketson Law Building collects groundwater and rainwater from downspouts, which can be used for irrigation. Although Colorado water law prohibits property owners from reusing storm water onsite, DU was founded prior to the state statute, and Law faculty secured the right to reuse this water.

7. RAIN SENSORS

Rain sensors regulate sprinkler systems so watering does not coincide with significant rainfall events.

8. RITCHIE CENTER FOR SPORTS & WELLNESS

Most light fixtures in this building were retrofitted to improve energy efficiency. Discussion is underway to use solar energy to heat the swimming pool in the future.

9. BARTON LACROSSE STADIUM

The lacrosse playing field is a water detention space that reduces flooding during major storm events. The stadium is also equipped with waterless urinals.

10. CENTENNIAL HALLS & TOWERS

The original single-pane windows in these buildings have been replaced with more energy efficient windows, significantly reducing energy usage. The operable windows encourage natural ventilation, contributing to the comfort of occupants and improved energy management.

11. LIGHT RAIL STATION

DU is a stop on Denver's regional light rail, providing accessibility to a sustainable and convenient mode of transportation to and from campus.

12. BRIDGE COMMUNITY GARDEN

The community garden is a joint student/neighbor effort that reclaims a plot of land to grow food, demonstrates pesticide-free gardening, and creates a community space (<http://www.dugardens.org>).

13. CAMPUS WELLS

Two groundwater wells on campus reduce consumption of city-supplied potable water during periods of drought.

14. STURM HALL

This building contains the campus central heating and cooling plant. The 100% CFC-free plant was designed to efficiently distribute energy to campus facilities and controls the activation of setback temperatures during periods of low use.

15. B-CYCLE BIKE STATIONS

Denver B-Cycle launched the first large-scale, citywide bicycle-sharing program in the U.S. on Earth Day, 2010. Bicycles may be checked out from a station and returned to locations throughout Denver. Bicycle racks on campus offer the DU community a green method of transportation (<http://denver.bcycle.com>).

16. RUFFATTO HALL

Designed to meet LEED Gold standards, this building has argon gas-insulated windows, light sensors to limit illumination of unoccupied rooms, and copy rooms that are ventilated separately to prevent unnecessary cooling.

17. EVANS PARKING STRUCTURE

Green parking spaces are reserved for energy efficient vehicles. This structure also houses an office of Transportation Solutions, which supports a variety of alternate transportation options for the campus community and distributes free Denver public transit (RTD) passes to students and employees (<http://transolutions.org>).

18. CRAIG HALL

This building employs a four-pipe heating/cooling system that allows for simultaneous heating and cooling of different areas of the building. This system is another of DU's sustainable construction standards.

19. HOTEL, RESTAURANT AND TOURISM MANAGEMENT BUILDING

This building has highly energy efficient controls that are used to exhaust the kitchens only during cooking.

20. CHERRINGTON HALL & SIÉ CHÉOU-KANG CENTER

There was zero change in net-energy use for Cherrington Hall when the Sié Chéou-Kang extension was added. Window shading and natural ventilation improve comfort and energy efficiency.

21. CHERRINGTON GARDENS

The garden area around Cherrington Hall features three forms of more sustainable landscaping: a native species garden on the east side, a low water-adapted garden to the south, and a permanent agriculture (permaculture) garden to the west. The permaculture garden, managed by faculty and students, emphasizes food-producing perennials planted in symbiotic relationships.

22. HARPER HUMANITIES GARDEN

This beautiful water garden is carefully regulated by water darkening, fish, and plants to minimize maintenance. The garden is an educational icon and an aesthetically pleasing place to enjoy beautiful Colorado weather. This garden is being considered in a plan to augment building cooling by shedding heat into the water.

23. CAMPUS GREENS

The University employs campus-wide water quality and water detention measures. Rain water is collected from the greens and debris is removed prior to returning it to the watering system. The greens also hold water for controlled release into the city storm-water system to reduce flooding and erosion during heavy rainfall events.

24. NAGEL HALL

A residence hall designed to meet LEED Gold standards, this building includes a mechanical system that utilizes an enthalpy wheel to decrease energy demand, kitchen exhausts that only operate when cooking, dual-flush toilets, and fescue grass in the courtyard.

25. JOHNSON-MCFARLANE HALL

This residence hall was renovated with white roofs that increase energy efficiency within the building by increasing albedo and reducing thermal gain.

26. NATURAL GAS REFUELING STATION

The Facilities Service Center has one of two compressed natural gas vehicle refueling stations on campus, used to fuel converted fleet vehicles and Zambonis for grooming the ice hockey rink. (Second station is at the Ritchie Center).

27. OLIN HALL

Another core standard for campus buildings is natural ventilation in all inhabited spaces. Olin Hall is designed with natural ventilation even in laboratories with fume hoods, where regulating ventilation is challenging.

28. GATES CONCERT HALL

Under-floor air ventilation efficiently and evenly regulates temperature throughout the Gates Concert Hall, located in the Newman Center for Performing Arts.

29. CAMPUS SHUTTLE

The shuttle provides transportation around campus after regular business hours, offering a safe and sustainable alternative to students who do not wish to walk home in the dark.

30. DU SUSTAINABILITY COUNCIL

In 2007, the Provost created a University-wide Sustainability Council—composed of students, faculty, and staff—to coordinate campus sustainability efforts. All members of the DU community are invited to attend the Council's monthly meetings.

For more information, contact the DU Sustainability Council (green@du.edu) or visit www.du.edu/green



Updated: 6/9/10