



iCAP Portal

...the new guide to iCAP project
status and history

CCNet luncheon

March 14, 2013

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Office of Sustainability

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Facilities & Services



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sustainability.illinois.edu

A background collage of nine diverse students' faces, arranged in a 3x3 grid. The images are semi-transparent and have a light blue tint. The students are of various ethnicities and ages, all smiling or looking positively.

iCAP Overview



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Commitments Signed

American College & University Presidents'

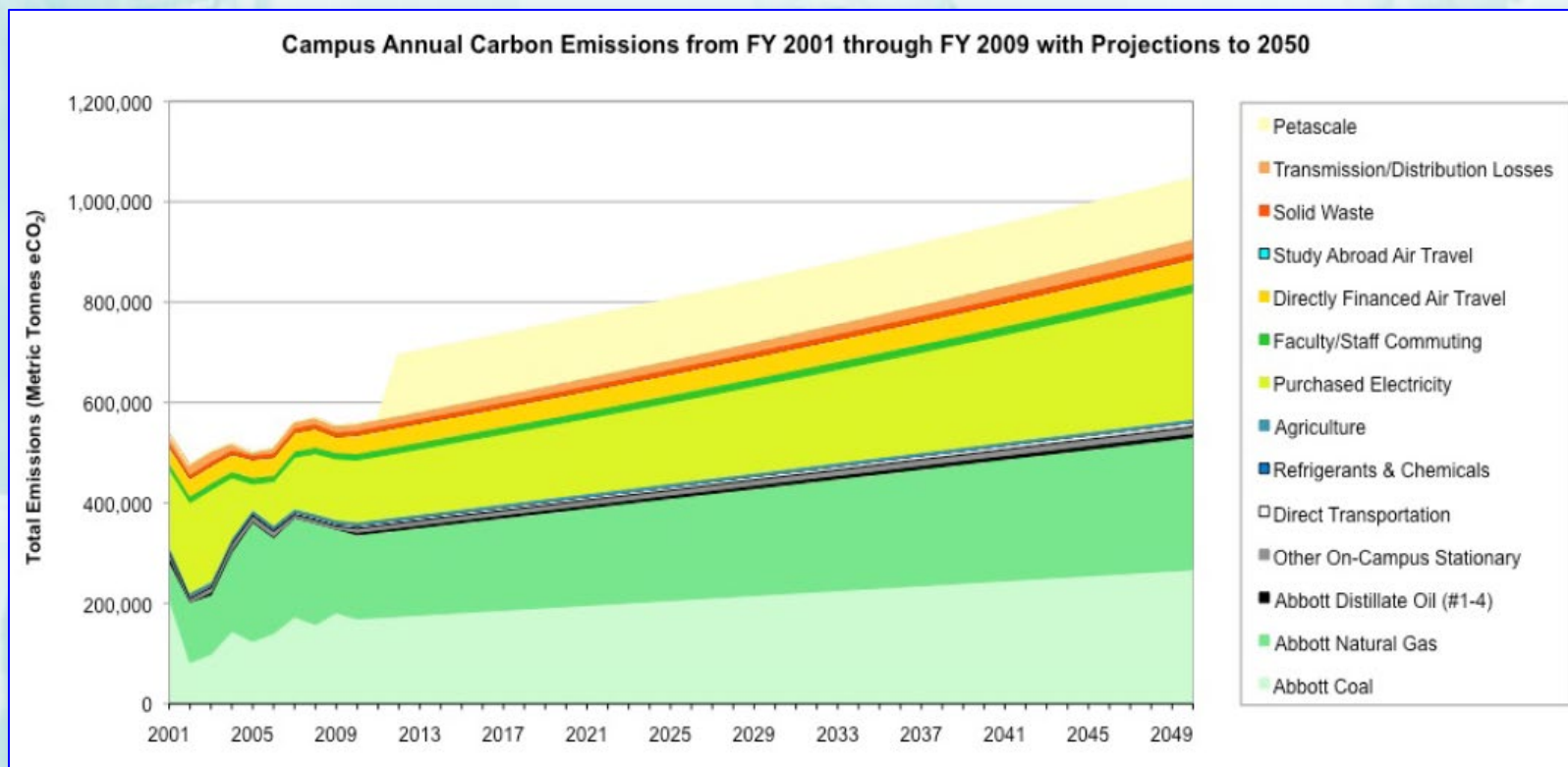
Climate Commitment (ACUPCC) - signed February 22, 2008



Illinois Campus
Sustainability Compact
second five-year
commitment signed
August 27, 2010



Unconstrained Projections



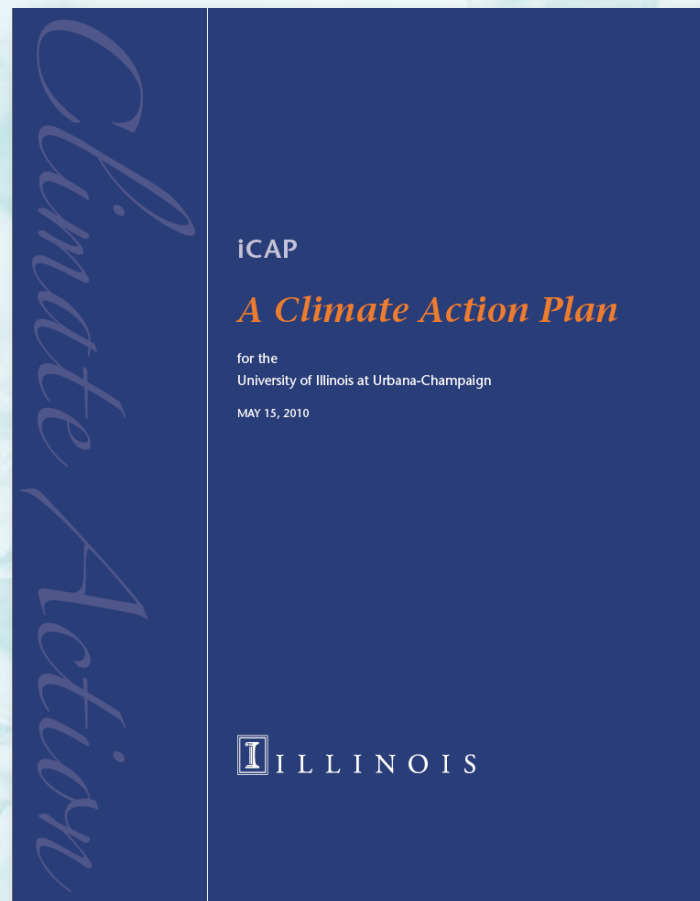


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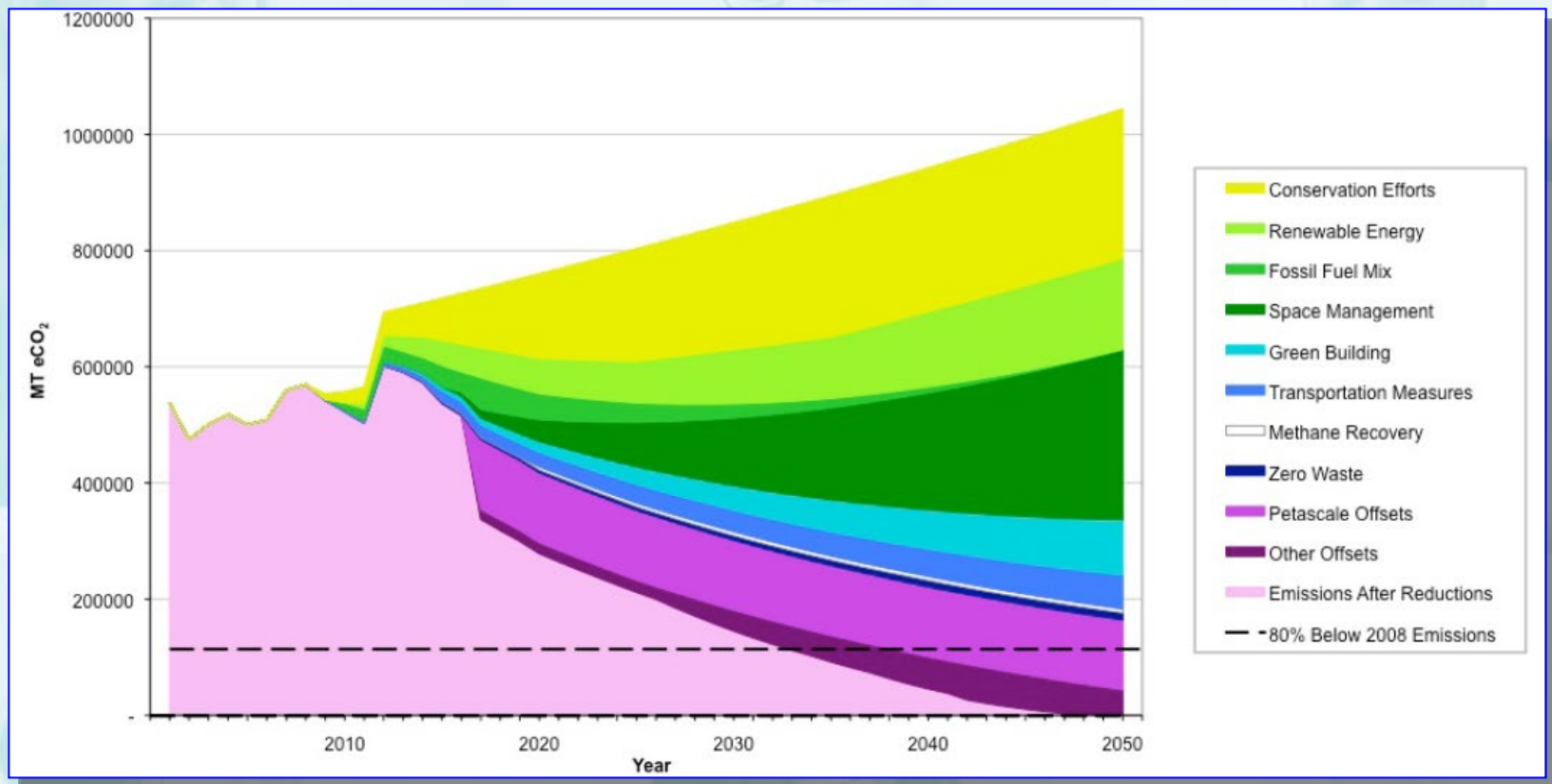
May 2010 iCAP

1. Energy Conservation
2. Financing
3. Eliminate Coal Use
4. Use Renewables
5. Transportation Improvements
6. Building Standards
7. Land & Space Conservation Policies
8. Procurement & Waste Reduction
9. Water Conservation
10. Planning
11. Follow Through





Net Zero Mitigation Wedges





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2011	LEED Gold Certification	DONE
2011	wind turbine	Cancelled
2011	miscanthus boiler at Vet Med	Cancelled
2011	develop Zero-Waste Policy	In Progress
2012	detailed study of energy production and distribution	In Progress
2012	large-scale food composting	In Progress
2012	voluntary air-travel offsets process	Under review
2012	bike sharing program	In Progress
2012	"No Net Increase in Space" Policy	In Progress
2012	eliminate the use of coal during summer months	DONE and recurring
2015	5% renewable sources for electricity	In Progress, 2% from Solar Farm
2015	20% reduction in energy consumption	DONE
2015	15% reduction in building emissions	DONE
2015	30% reduction in transportation emissions	Under review
2015	purchase over 30% of food within 100 miles	In Planning
2015	pilot a methane capture system	On Schedule
2015	20% reduction in potable water use	On Schedule, 19% in FY12
2015	LEED Platinum Certification	Pending



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- 2016 mandatory air-travel offsets program
- 2017 eliminate coal usage at Abbott Power Plant
- 2020 75% Waste Diversion
- 2020 30% reduction in energy consumption
- 2020 30% reduction in building emissions
- 2020 17.5% renewable sources for energy
- 2020 40% reduction in transportation emissions



- 2020 50% reduction in agriculture emissions
- 2020 install a methane capture system
- 2020 30% reduction in potable water use
- 2020 connect the raw water system
- 2022 complete all SAIC tasks
- 2025 40% reduction in energy consumption
- 2025 40% reduction in building emissions
- 2025 25% renewable sources for energy
- 2025 50% reduction in transportation emissions
- 2025 40% reduction in potable water use
- 2025 all new buildings should be net-zero

And NET ZERO EMISSIONS by 2050!



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iCAP Portal



Home

Goals

Projects

Suggest a Project

Map

Home

Welcome



The **Illinois Climate Action Plan (iCAP)** outlines a path for the University of Illinois at Urbana-Champaign to achieve carbon neutrality by the year 2050. The Campus committed to this ambitious goal when it signed the **American College and University Presidents' Climate Commitment (ACUPCC)** on February 22, 2008.

The University of Illinois is in a prime position to solve society's most challenging needs, including the health, social, economic, and ecological impacts associated with climate change. With high-caliber researchers and experts in diverse fields across campus, the University seeks to implement innovative solutions to these pressing issues, and become a leader in sustainability efforts locally, nationally, and globally.

Since developing the 2010 iCAP, the University of Illinois at Urbana-Champaign has developed hundreds of projects to tackle the broad range of sustainability issues that face our campus and our world. This site is a repository for summary information about each iCAP project, both to share the information publicly and to assist in collecting information for reporting purposes. Each project page includes a project description, contact names, funding details, location map(s), metrics and targets to measure success, current status of the project, and regular updates as projects are discussed, approved, and implemented. If you would like to recommend a new project or are aware of an existing project that is not listed on this site, please use the "Suggest a Project" tab to let us know.

Featured Updates

Campus Bike Plan

Draft 2013 Campus Bike Plan
Released for public comment

3/4/2013

The draft **2013 Campus Bike Plan** is now available for public input.

FY14 Sustainability Fellows Program

Now accepting applications

1/31/2013

The Center for a Sustainable Environment is seeking proposals from faculty to support research activities related to specific Facilities & Services sustainability projects.

Mechanic Courses at the Campus Bicycle Shop

Registration now open for
Bicycle Mechanic Course

1/14/2013

Registration is now open for the six-week Bicycle Mechanic Course offered by the Campus Bicycle Shop! Space is extremely limited, and there is a \$30 course fee. The class will run

[Home](#)[Goals](#)[Projects](#)[Suggest a Project](#)[Map](#)[Home](#) » [Goals](#)

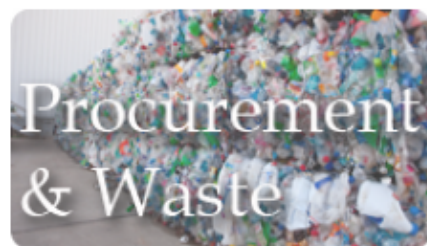
Goals

The ultimate goal of the ACUPCC Climate Commitment is for campuses to be "carbon neutral" with no unmitigated greenhouse gas emissions. The Illinois Climate Action Plan (iCAP) was first submitted in May 2010, and it set aggressive goals for reaching carbon neutrality.

As the flagship public university in the state of Illinois, the campus has a moral and ethical responsibility to lead, to set aggressive goals, to work to meet them, and to serve as a model for the community, state, and nation. The iCAP represents a roadmap to a new, prosperous, and sustainable future for the University. It outlines strategies, initiatives, and targets toward meeting the stated goal of carbon neutrality by 2050.

Download a PDF of the [2010 Climate Action Plan](#).

iCAP Themes





[Home](#)

[Goals](#)

[Projects](#)

[Suggest a Project](#)

[Map](#)

[Home](#) » [Projects](#)



[View](#)

[Edit](#)

[Panel layout](#)

[Panel content](#)

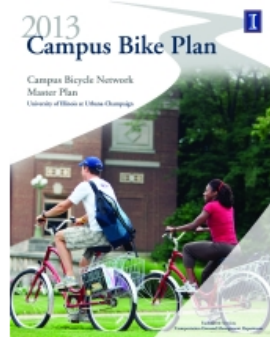
Full Project Listing

- [View a hierarchical listing of all iCAP projects](#)
- [View a table listing of all iCAP projects](#)

Instructions

This site is a repository for summary information about each iCAP project. Each project page includes a project description, contact names, funding details, location map(s), metrics and targets to measure success, current status of the project, and regular updates as projects are discussed, approved, and implemented. The projects are searchable from the search bar in the top right of this screen, or they can be found by browsing through the main categories listed on the left.

Featured Project



Campus Bike Plan

Transportation Demand Management (TDM) in Facilities & Services is seeking input on the updated 2013 Campus Bike Plan, a master plan to direct our efforts for future bicycle infrastructure improvements and program development. The draft 2013 Campus Bike Plan will be available for public input during a four-week period, through March 31, and members of the campus community are encouraged to review the plan and submit their comments and feedback. Feedback can be submitted through the online Campus Bicycle Feedback Form through March 31, 2013. The Campus Bike Plan will be finalized for approval during Summer 2013.



Home

Goals

Projects

Suggest a Project

Map

[Home](#) » [Projects](#) » Project Hierarchy



Project Hierarchy

Would you like to go to the [Projects Table View](#)?

[Expand all](#) | [Collapse all](#)

- ▶ [Educate Future Leaders](#) (Education & Outreach)
- ▶ [Sustainability Outreach](#) (Education & Outreach)
- ▶ [Reduce Transportation Emissions](#) (Transportation)
- ▶ [Report on Progress](#) (Reporting Progress)
- ▶ [Reduce Emissions from Energy Consumption](#) (Energy)
- ▶ [Funding for Sustainability](#) (Funding)
- [Sustainable Investment Practices](#) (Funding)
- ▶ [Sustainable Landscapes](#) (Land & Space)
- ▶ [Reduce Campus Building Square Footage](#) (Land & Space)
- ▶ [Eliminate Waste](#) (Procurement & Waste)
- ▶ [Water Conservation](#) (Water)



Home

Goals

Projects

Suggest a Project

Map

[Home](#) » [Projects](#) » Theme: Transportation



Transportation

Transportation emissions account for about 10 percent of the total emissions generated on campus. Generally, this includes commuter, air travel and fleet emissions, some of which are difficult to quantify. The target for this section is to reduce transportation emissions by 50 percent by 2025. This aggressive target will require strategic thinking in all components of transportation-based emissions.

[Expand all](#) | [Collapse all](#)

▼ [Reduce Transportation Emissions](#)

▼ [Encourage Low-Emission Vehicles](#)

- [Install Public Use Charging Stations](#)

▼ [Reduce Business Travel Emissions](#)

- ▶ [Decrease Emissions from UI Fleet](#)
- [Encourage Ride-Sharing for Business Trips](#)
- [Encourage Telecommuting in place of Business Trips](#)
- [Encourage Train Travel for Business Trips](#)
- [Offset Emissions from Plane Trips](#)

▼ [Reduce Vehicle Miles Traveled on Campus](#)

- ▶ [Discourage Vehicles on Campus](#)



Home

Goals

Projects

Suggest a Project

Map

[Home](#) » [Projects](#) » Theme: Transportation



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▼ Encourage Low-Emission Vehicles

- [Install Public Use Charging Stations](#)

▼ Reduce Business Travel Emissions

▼ Decrease Emissions from UI Fleet

- [Increase use of Alternative Service Vehicles](#)
- [Reduce F&S Vehicle Idling](#)
- [Support the Illinois Biodiesel Initiative](#)

- [Encourage Ride-Sharing for Business Trips](#)
- [Encourage Telecommuting in place of Business Trips](#)
- [Encourage Train Travel for Business Trips](#)



Home

Goals

Projects

Suggest a Project

Map

[Home](#) » Suggest a Project

Suggest a Project

All iCAP projects originally started as someone's great idea! If you have an idea to share or know of an existing project not listed here, we want to know about it. You can submit it below or contact us at sustainability@illinois.edu.

Note: please be sure to review the [existing iCAP project pages](#) before suggesting a new project!

Name

Email

Subject

Type

- ☒ New Project
- ☐ Existing Project

Suggestion

Pros/Cons

Theme Filter

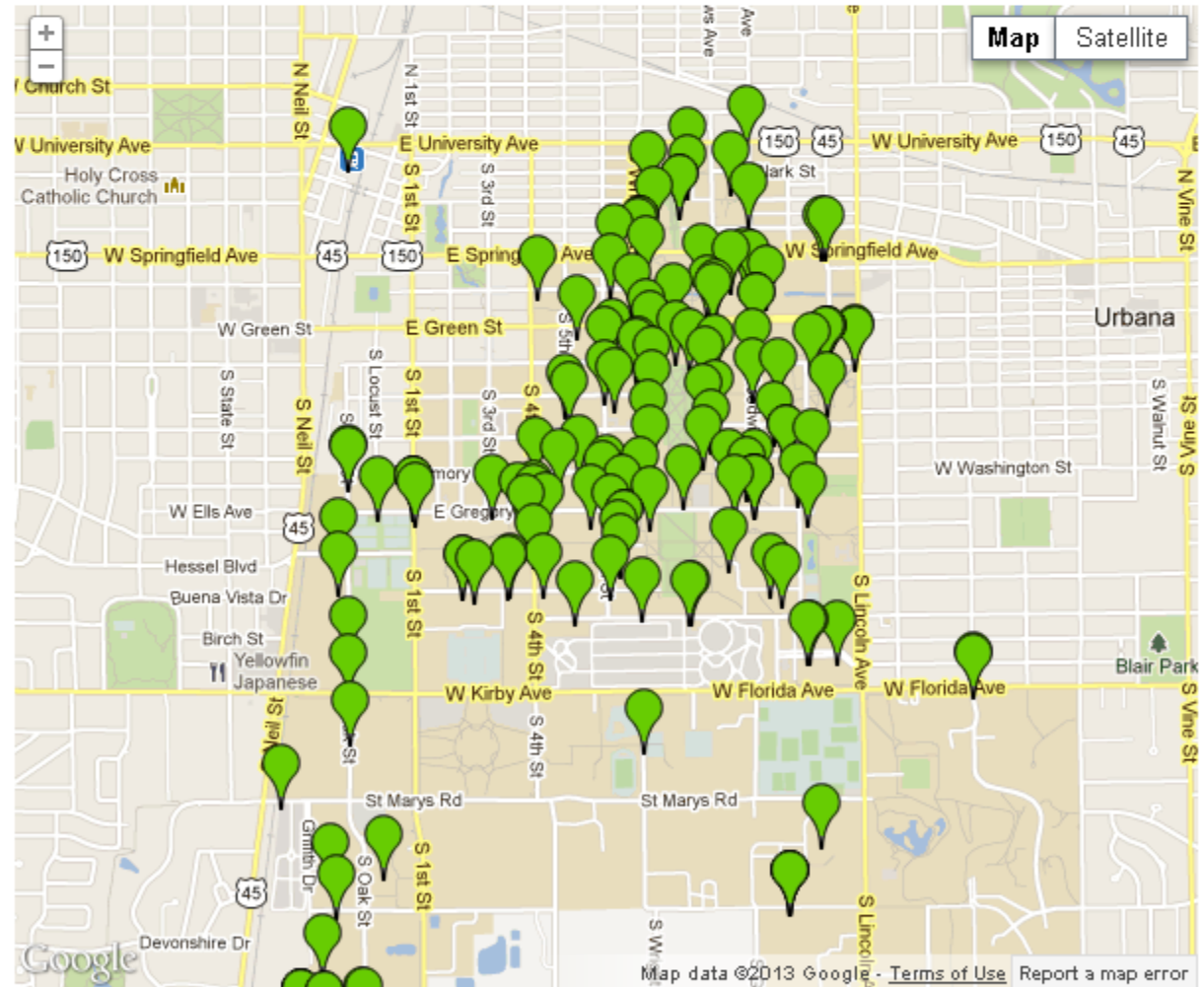
Select a theme(s) you'd like to filter by:

- ☐  Education & Outreach
- ☐  Energy
- ☐  Funding
- ☐  Land & Space
- ☐  Procurement & Waste
- ☐  Reporting Progress
- ☐  Transportation
- ☐  Water

Map of Project Locations

This map shows all the locations where sustainability projects are located. Click on a location to see a listing of projects occurring there.

Please zoom out to view off-campus projects.



Theme Filter

Select a theme(s) you'd like to filter by:

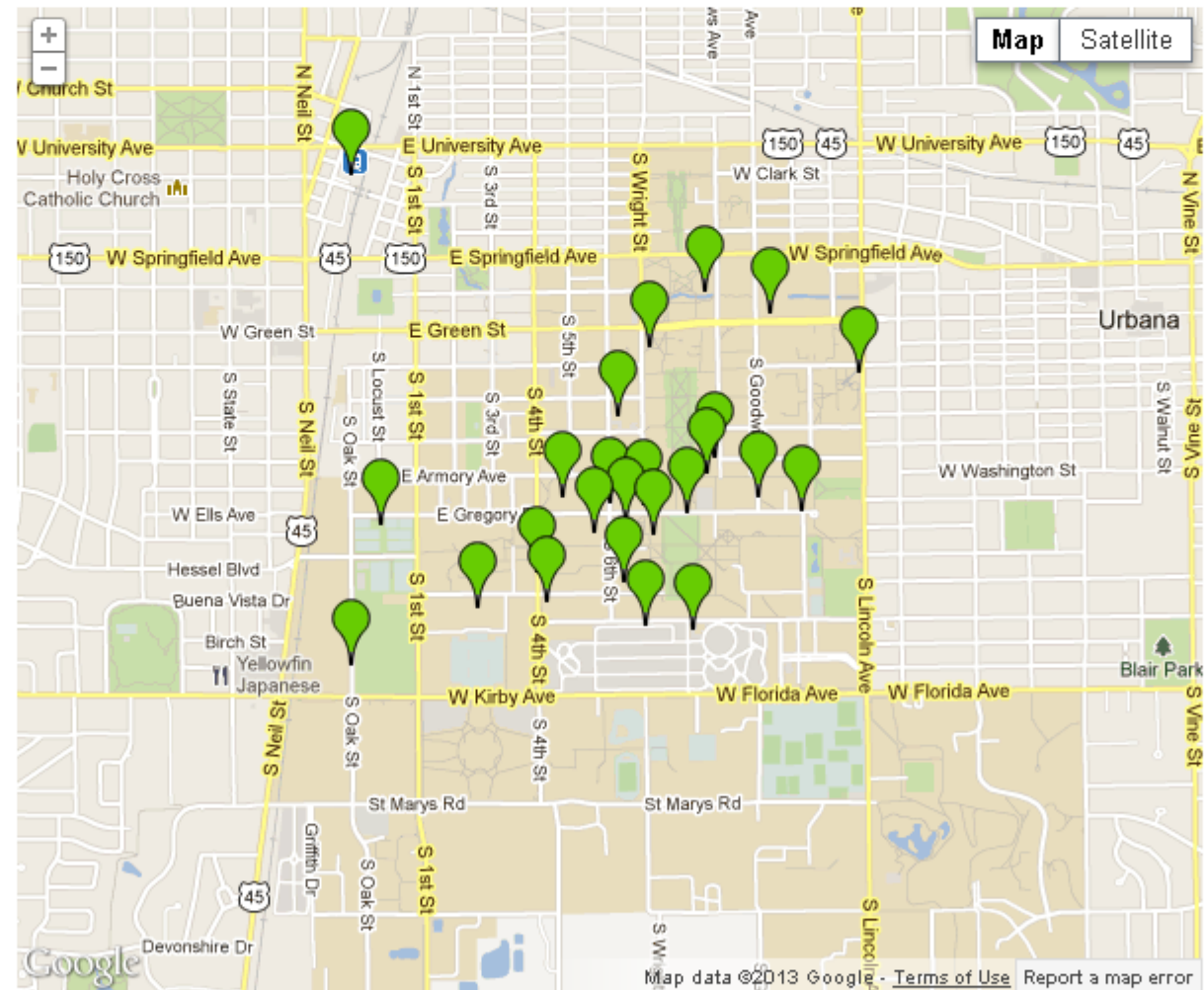
- ☐  Education & Outreach
- ☐  Energy
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- ☐  Water

Submit

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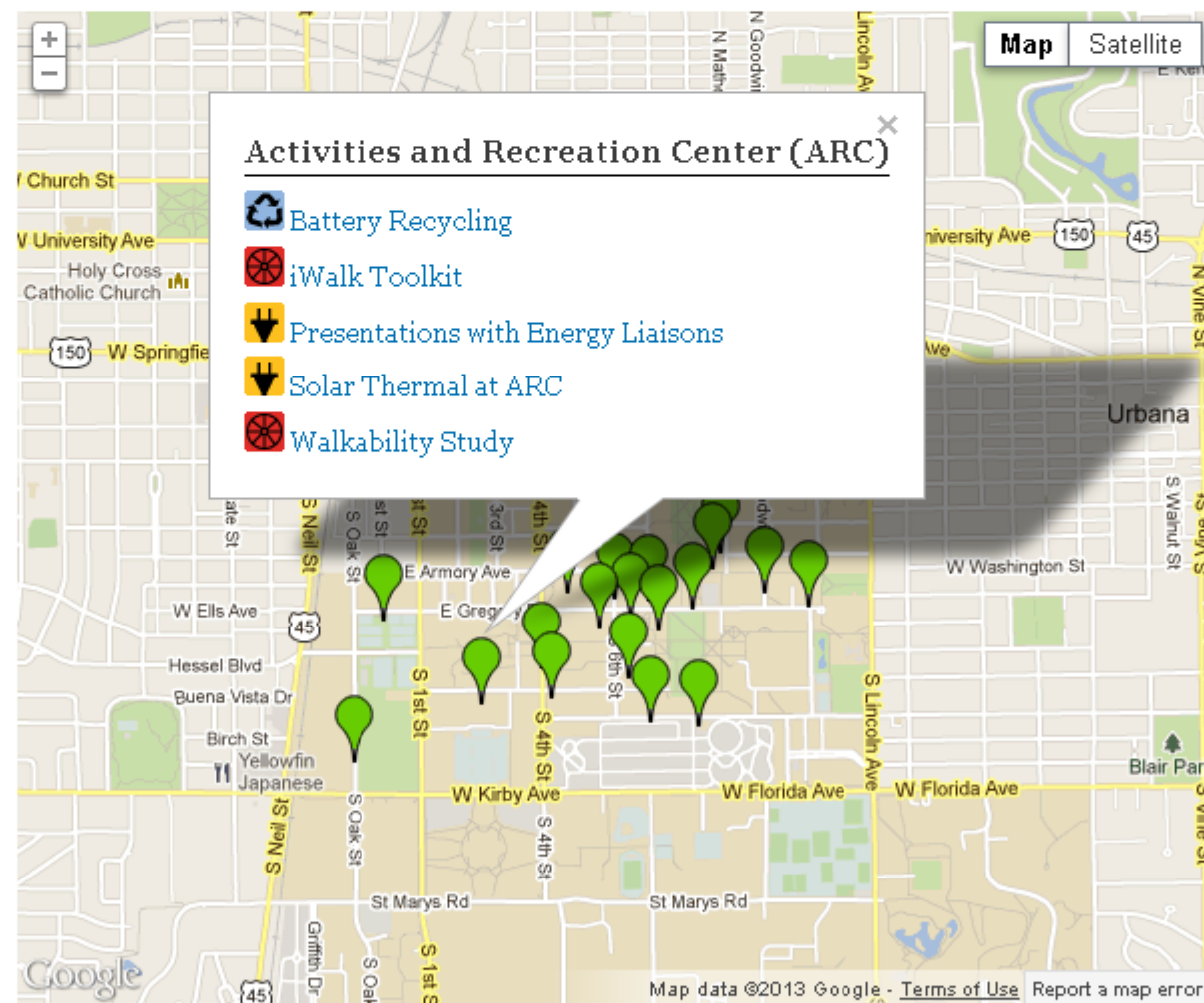
- ☐  Education & Outreach
- ☐  Energy
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Submit

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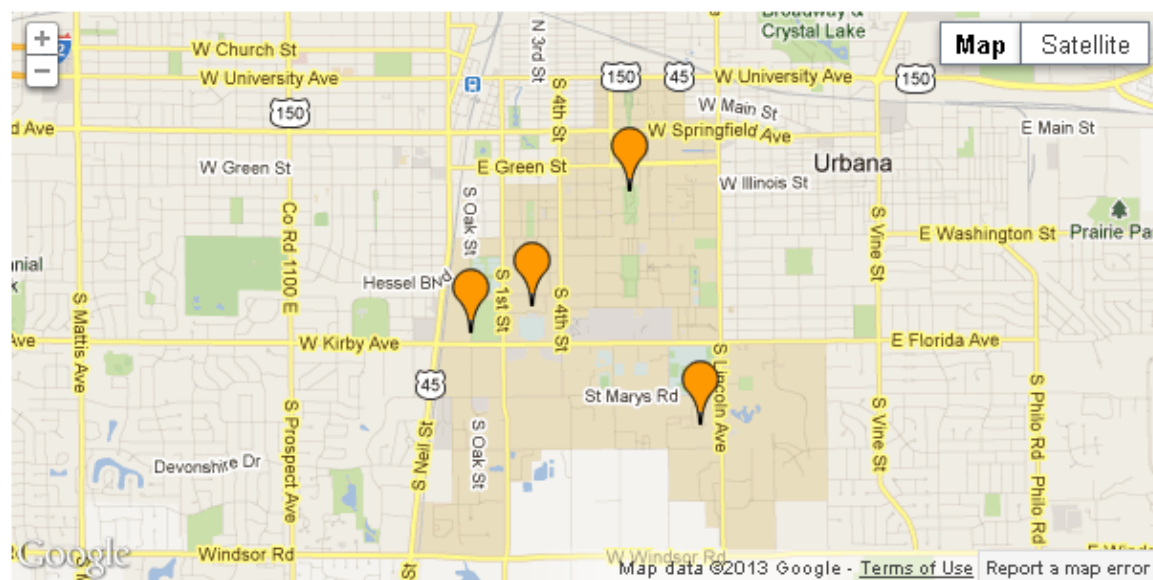


Battery Recycling

Implement a Campus-Wide Battery Recycling Program

Description

Facilities & Services has committed to funding a campus-wide battery recycling program, up to \$10,000 per fiscal year. The program was launched in the Spring of 2012 with four locations on campus that accept specific types of rechargeable batteries as well as single-use alkaline batteries. Two vendors are used to collect and recycle the batteries: [Call2Recycle](#), which accepts rechargeable batteries at no charge to the University; and [Battery Solutions](#), which accepts single-use alkaline batteries and charges for collection.



Project History

Battery Recycling Program Preparing to Launch

2/28/2012 Battery Recycling program containers were ordered in late February. The official launch of this program will be mid-spring.

Battery Recycling Progress

1/31/2012 The battery recycling program is being expanded to four locations across campus, for both rechargeable batteries and single-use alkaline batteries.

[View all project progress »](#)

Parent Project

[Increase Recycling Rates](#)

Child Projects

[Rechargeable Battery Recycling](#)

[Single-Use Alkaline Battery](#)



Home

Goals

Projects

Suggest a Project

Map

[Home](#) » Theme: Energy



Energy is by far the largest contributor to the campus' emissions inventory. The iCAP focuses on a detailed strategy of building energy conservation, de-carbonizing generation systems, and the addition of renewable energy sources. This “conserve-and-load” approach is achievable, affordable, and implementable. The Plan calls for a reduction in building energy use of 40 percent by 2025. The University also seeks to meet the state's Renewable Portfolio Standard of 25 percent renewable energy use by 2025.



[Expand all](#) | [Collapse all](#)

- ▼ [Reduce Emissions from Energy Consumption](#)
 - ▼ [Energy Conservation Projects](#)
 - ▶ [Maintenance Division Energy Projects](#)
 - ▶ [Lighting Retrofit](#)
 - ▶ [Energy Services Conservation Projects](#)
 - [ECE Net-Zero Energy Building](#)
 - ▶ [Facility Standards](#)
 - ▶ [Computers and Technology](#)
 - ▼ [Master Plan for Energy Production and Distribution](#)
 - [Stop Burning Coal at Abbott Power Plant](#)
 - ▶ [Smart Grid for Campus](#)
 - ▶ [Use Renewable Energy](#)

Reduce Emissions from Energy Consumption

Description

Energy conservation is considered the easiest and most cost-effective way to achieve reductions in greenhouse gas emissions. Opportunities for conservation on campus are great. In order to reduce emissions, the Climate Action Plan has laid out potential energy savings on campus in areas such as lighting, building commissioning, fume hoods, behavioral change and incentives, and information technology. All of these areas are prospective energy saving components and can contribute to a more sustainable campus.

Project Metrics

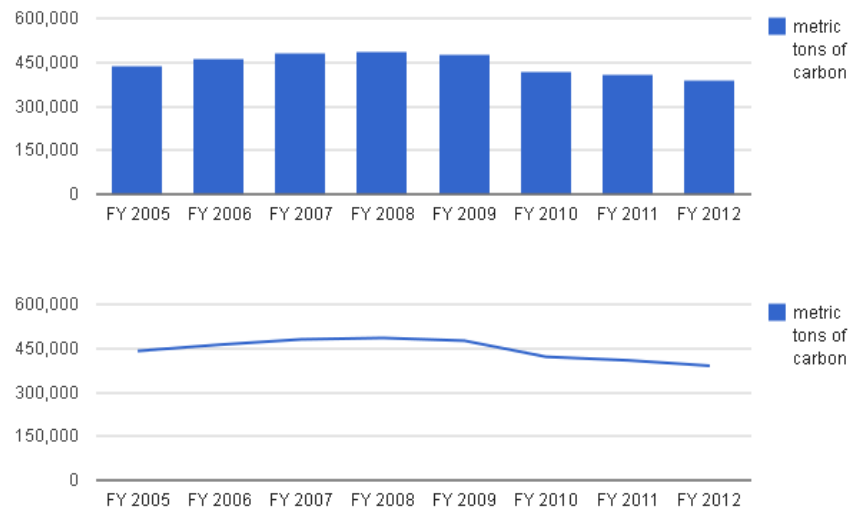
Carbon Emissions from Energy (MTE)

Date	Value
June 30, 2012	390,570.00
June 30, 2011	409,068.00
June 30, 2010	420,832.00

1 of 8 >>

Project Metrics

▼ Carbon Emissions from Energy (MTE) (Tracked by Fiscal Year)



Annotations

- FY 2010: Climate Action Plan signed.

Child Projects

Energy Conservation Projects
Master Plan for Energy Production and Distribution
Changing Usage of Individuals

Project Team

Primary Contact:

Morgan Johnston

Project Leader:

Kent Reifsteck

Themes

Primary Theme:

Energy

<https://icap.sustainability.illinois.edu/project/reduce-emissions-energy-consumption>

EcoCAT documentation initiated

Posted by *mbjohnst* on *3/9/2012*

IDNR staff will review the project because the Franklin's Ground Squirrel may reside there. They state they will require thirty days of review. The Franklin's Ground Squirrel resides in culverts and areas with low shrubs and prairie grasses and not in cultivated farm areas. Most of the Solar Farm area has been farmed for years.

RFP released and notices sent to community

Posted by *mbjohnst* on *2/29/2012*

From: Jack Dempsey

Subject: Solar Farm letter ready to go

In the interest of keeping an open dialogue with our neighbors, I would like to inform you that the University of Illinois at Urbana-Champaign is pursuing the development of a 28.5-acre solar farm on the campus's South Farms. The attached fact sheet describes the details of the project, including specifics of the proposal, expected timeline, and frequently asked questions about solar farms. This information will be sent to the residents on First Street near the proposed site, with the attached letter.

I'm also including the full RFP here in case you are interested. This is expected to go live tomorrow.

If you have any questions or suggestions as we move forward with this project, please contact Morgan Johnston, our Sustainability Coordinator copied here.

Thanks,
Jack

RFP and subsequent amendments are online at http://www.procure.stateuniv.state.il.us/dsp_notice.cfm?Uni=UIUC&PN=1KSP....

Attached Files:



[Solar Farm Fact Sheet](#)



[Solar Farm FAQ](#)

Solar Farm Proposal Approved

Posted by *mille231* on *2/28/2012*



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A collage of nine diverse students' faces, overlaid with a light blue transparency, arranged in a 3x3 grid. The students are of various ethnicities and ages, all smiling or looking positively.

Example Projects: Renewables



Energy Planning

- [-] Master Plan for Energy Production and Distribution
 - Stop Burning Coal at Abbott Power Plant
- [+] Smart Grid for Campus
- [-] Use Renewable Energy
 - [+] Solar Energy on Campus
 - [+] Wind Energy on Campus
 - [+] Geothermal on Campus
 - [+] Methane Capture on Campus
 - [+] Biomass use on Campus
 - Power Purchase Agreements for Clean Energy



Solar Energy on Campus

- [-] Use Renewable Energy
 - [-] Solar Energy on Campus
 - Solar Farm
 - [-] Rooftop Solar PVs
 - ECE Rooftop Solar
 - BIF Rooftop Solar
 - KCPA rooftop solar
 - [-] Solar on Parking
 - Install Solar on NCPD
 - Solar Thermal at ARC
 - SSC Solar Feasibility Study



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Example Projects: Bicycles

Campus Bike Plan

2013 Campus Bicycle Network Master Plan for the University of Illinois at Urbana-Champaign

Description

Transportation Demand Management (TDM) in Facilities & Services is seeking input on the updated **2013 Campus Bike Plan**, a master plan to direct our efforts for future bicycle infrastructure improvements and program development.

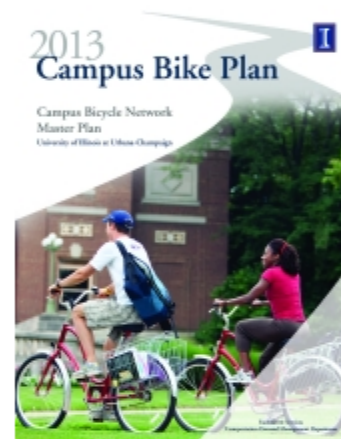
The draft **2013 Campus Bike Plan** will be available for public input during a four-week period, through March 31, and members of the campus community are encouraged to review the plan and submit their comments and feedback. **Feedback can be submitted through the online Campus Bicycle Feedback Form through March 31, 2013.** The Campus Bike Plan will be finalized for approval during Summer 2013.

- [Download Campus Bike Plan \(PDF\)](#)
- [Submit feedback through the Campus Bicycle Feedback Form](#)

Background

The benefits of a bicycle friendly campus are many. As a mode of transportation, bicycles provide solutions in the areas of safety, sustainability, cost savings, mobility, health and wellbeing. The University of Illinois at Urbana-Champaign was one of the first campuses in the nation to adopt a bikeway network when the first bike paths were constructed here in the 1950s. Since that time, funding cutbacks have led to degraded and disconnected pathways, outdated and insufficient bicycle parking, and limited support for bicycle services and programs. Despite these setbacks, bicycle ridership has grown at the University of Illinois in the last decade, and is expected to continue to grow in the future, creating a great need for reemphasis on engineering, education, enforcement, encouragement, and evaluation for bicycle-friendly improvements.

The 2013 Campus Bike Plan outlines the various ways in which the University should improve for



Project History

[Draft 2013 Campus Bike Plan Released for public comment](#)

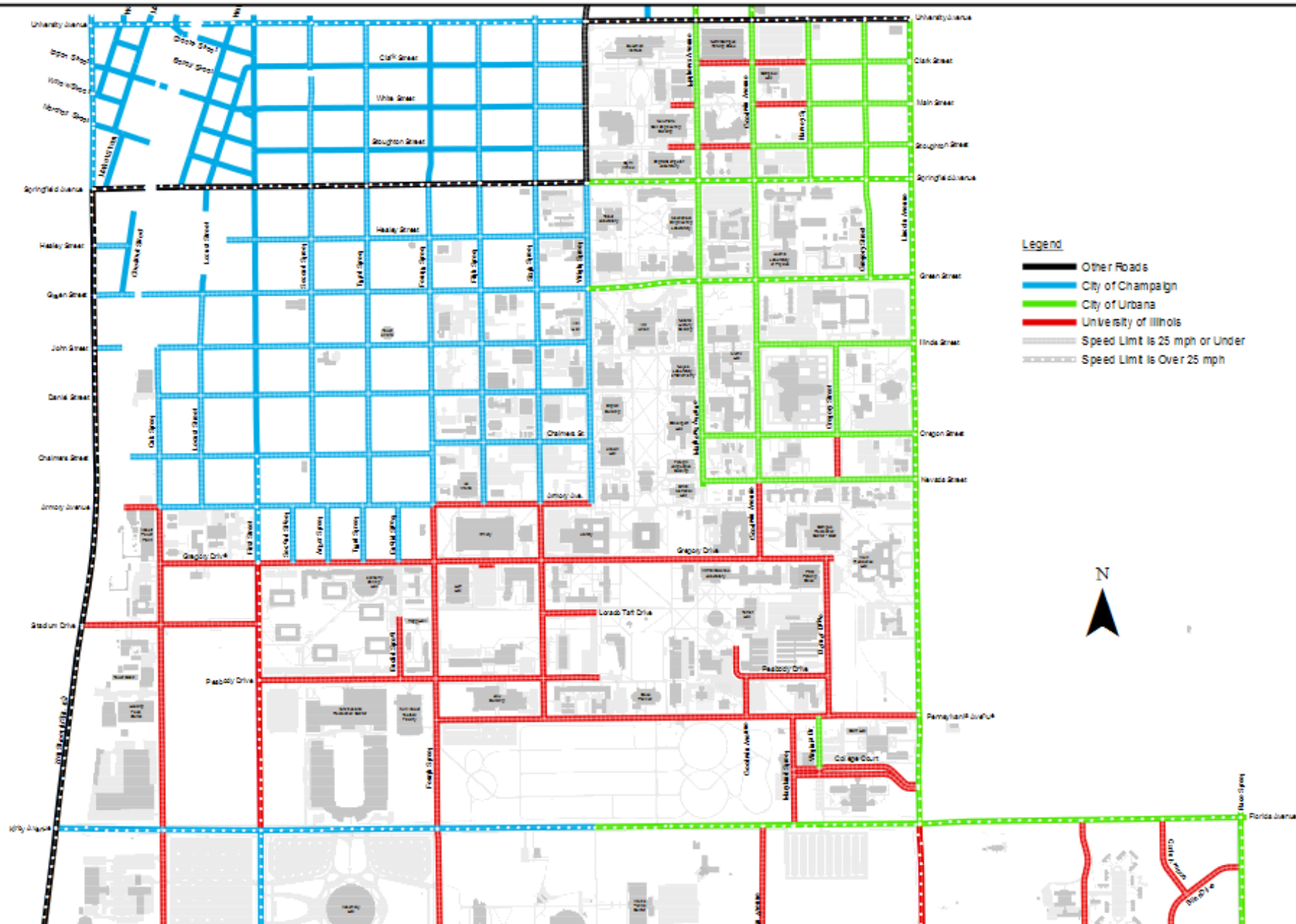
3/4/2013 The draft **2013 Campus Bike Plan** is now available for public input.

[View all project progress »](#)

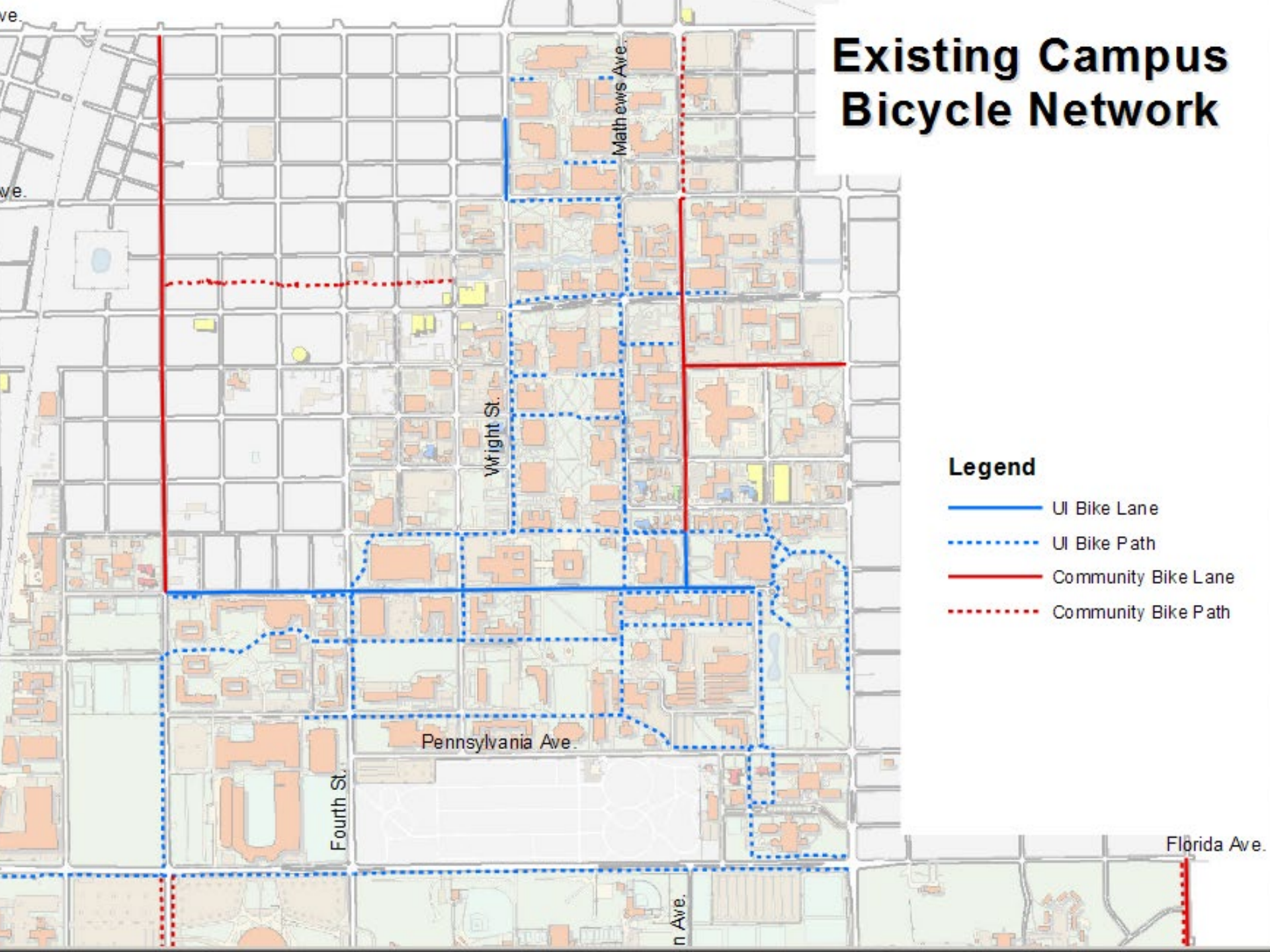
Parent Project

[Evaluation & Planning for Bicycles](#)

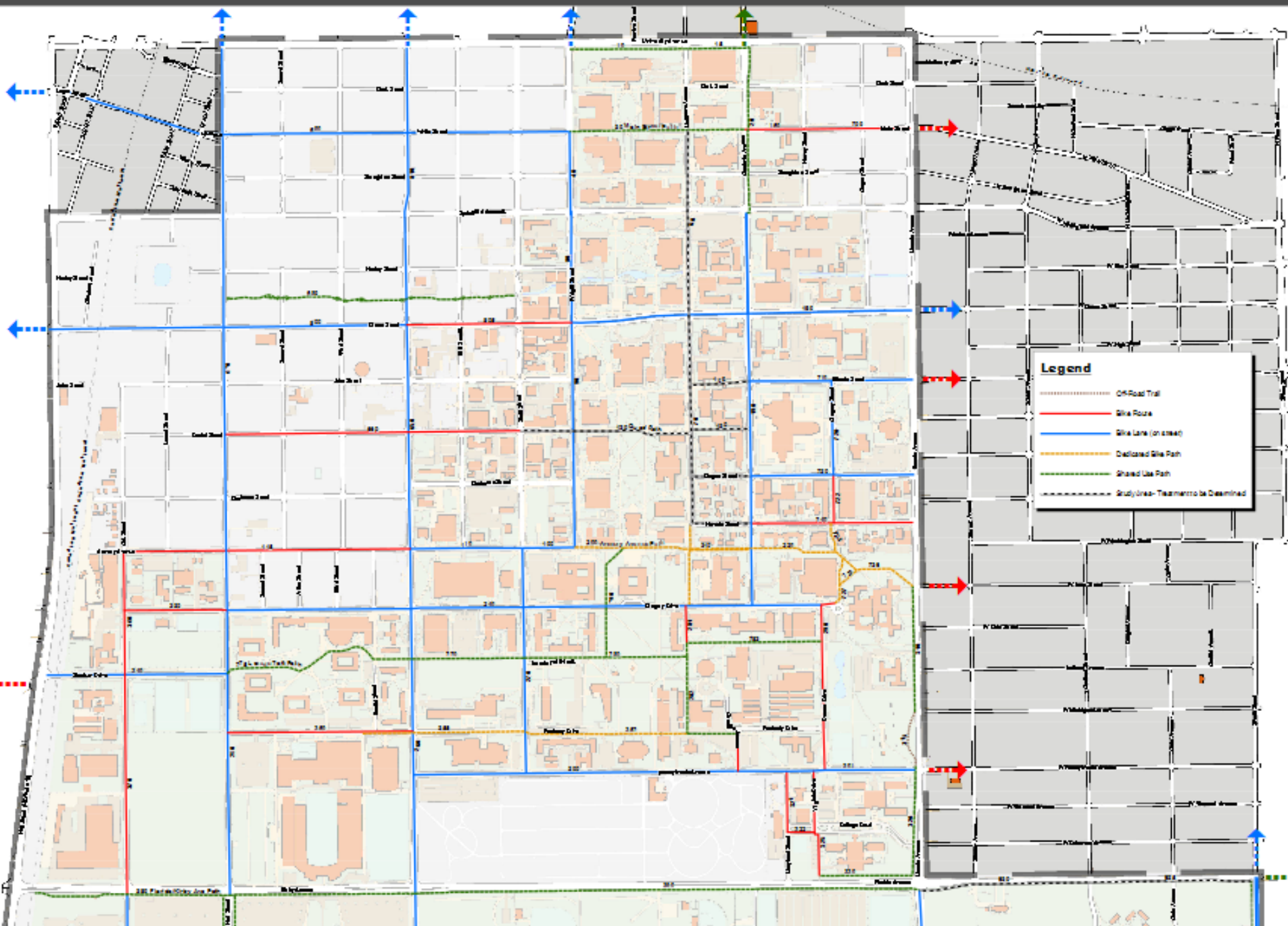
STREET OWNERSHIP & SPEED LIMIT MAP

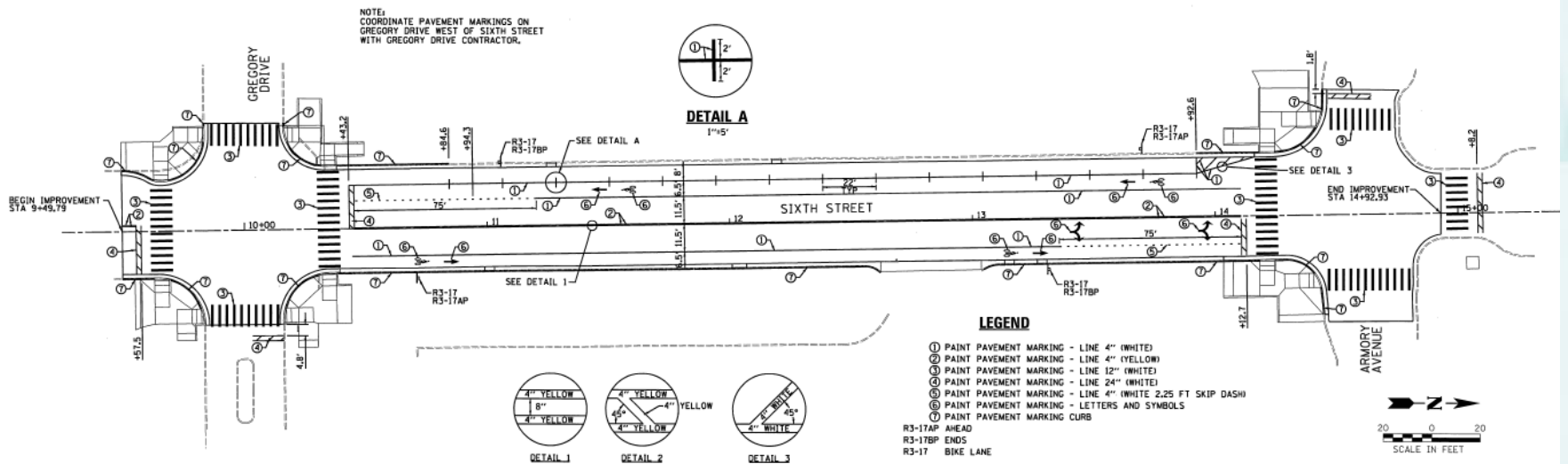
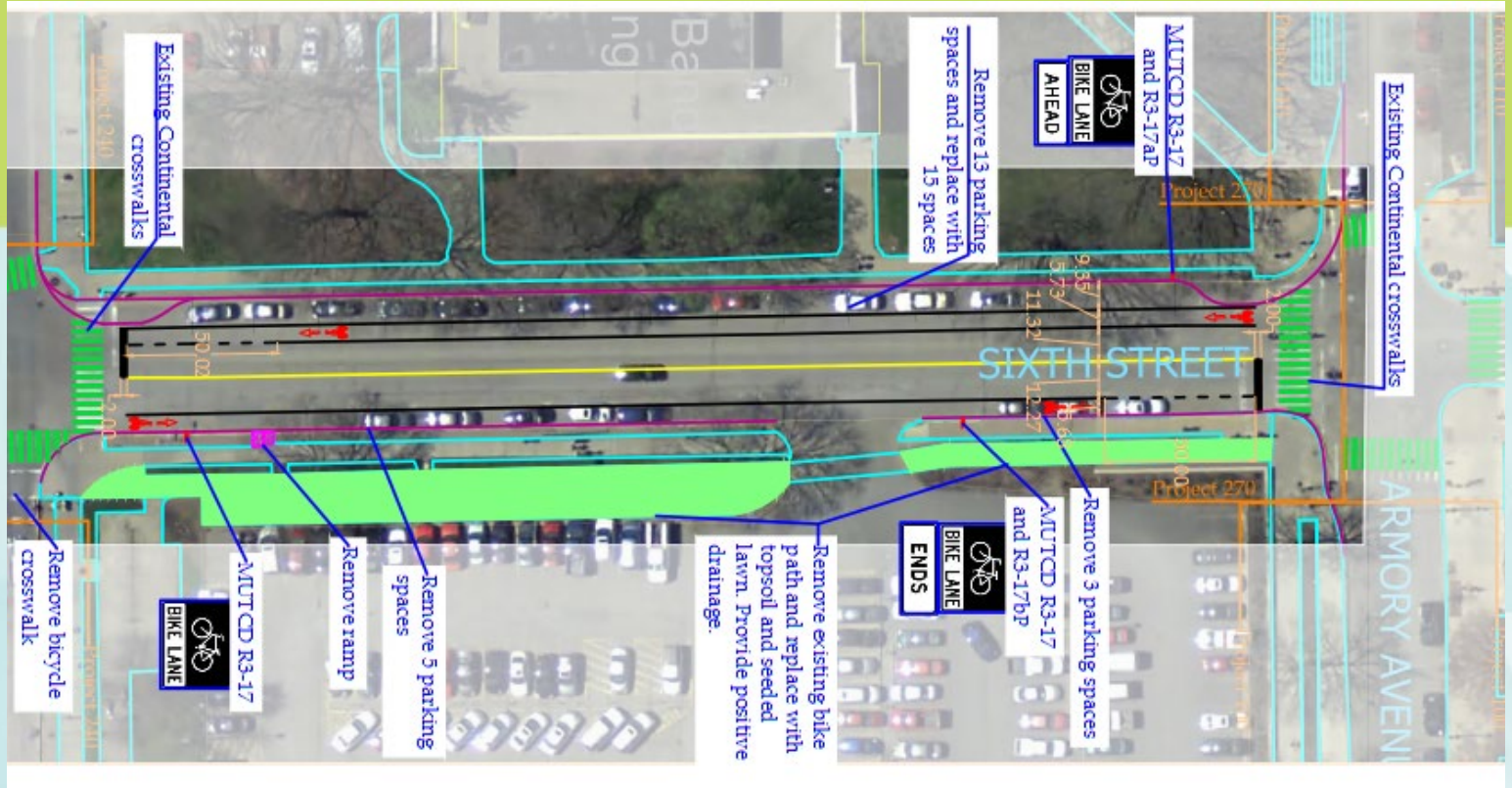


Existing Campus Bicycle Network



within the University District Boundary







Campus Bicycle Feedback Form

Thank you for sharing feedback about the draft Campus Bike Plan or your experiences biking on campus. Every submission is received by Facilities & Services and will be taken into consideration as we finalize the 2013 Campus Bike Plan and continue our efforts to make the campus more bicycle friendly. To review the draft Campus Bike Plan, visit <https://icap.sustainability.illinois.edu/project/campus-bike-plan>

*1. General Topic:

**Comments Due
March 31!**

2. Does your feedback involve a specific location? If so, please enter the closest address, building name, or intersection.

*3. Please provide a detailed description of your comments to help us better understand your feedback.

4. Primary affiliation with the university:

5. How often do you ride a bike on campus?



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Thank you!!

