



Campus Bike Master Plan

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Presentation Outline

- **Project Background & Description**
- **Network Design**
- **Recommendations**



- **Biking is an important part of every University**
 - *Replaces on-campus vehicular traffic*
 - *Decreases parking demand*
 - *Promotes a vibrant campus*
 - *Supports LEED Certification*
 - **Connects the University to people living off-campus**
 - **Efficient way to get around**
 - **Reduces Emissions**



Surveying the Campus

2105 Total Surveys Collected

279 Surveys Collected By-Hand

Response Voluntary

Distributed at High-Volume Areas
(i.e. Co-op, SU, Dining Halls)

Student Reps Answered Questions

1826 Surveys Collected Online

Response Voluntary

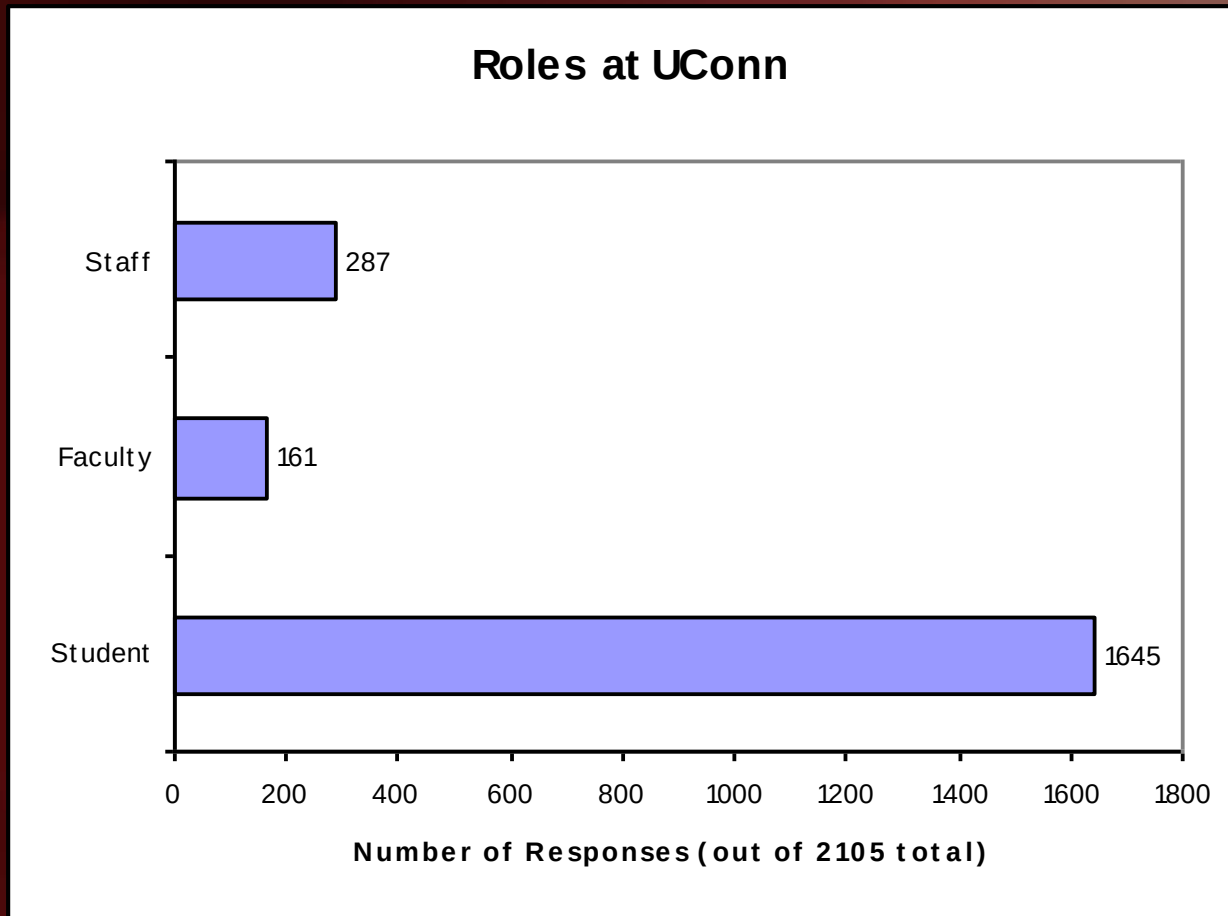
Distributed via the UConn Listserv
(Students, Staff, Faculty)

Email Provided to Answer
Questions



Who Was Surveyed

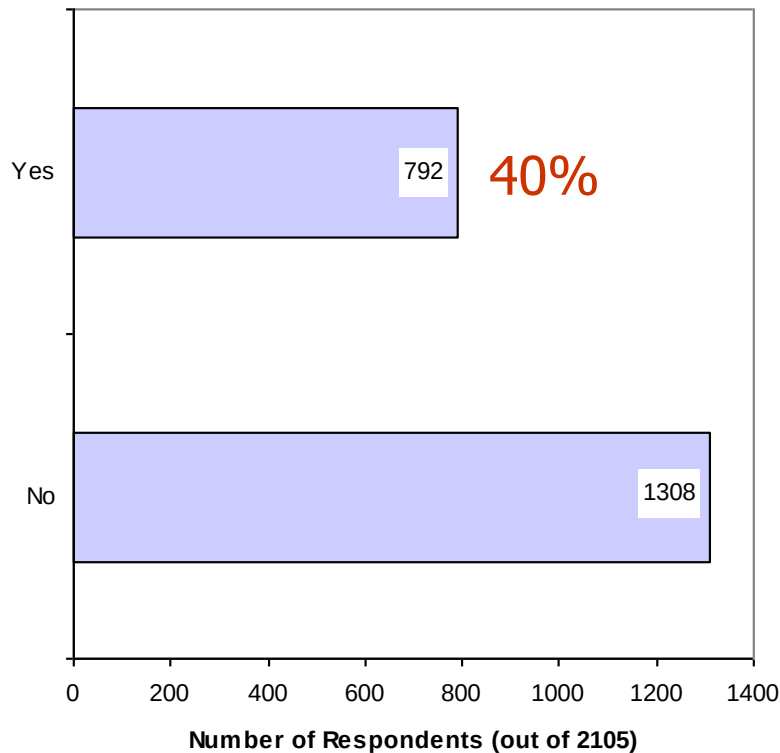
- **Representative sample of the University**



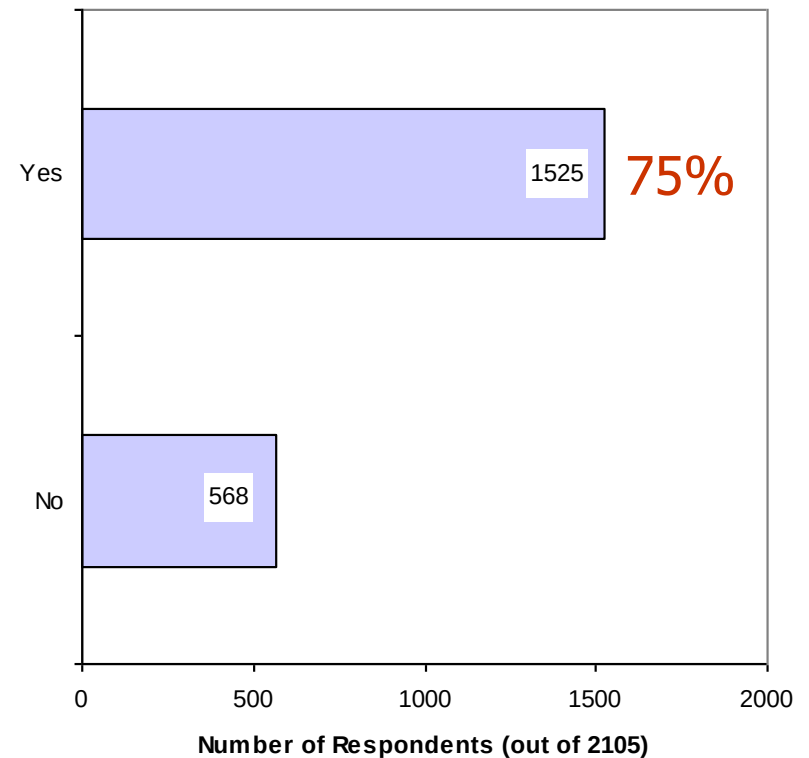
Is There An Interest?

- The UConn Community has an interest in biking

Ride Bike on Campus?



Ride More on Campus?



Recommendations for Bike Master Plan

- **Develop a Bike Network** (73%)
 - Roads, Paths, Lanes
- **Add Bike Racks** closer to buildings (68%)
- **Add overnight commuter lot storage** (64%)
- **Create 'Free Bike' Loan Programs** (62%)

Growing Interest

Institute of Transportation Engineers



ECOHusky



Office of Environmental Policy

Critical Mass Bike Ride



Senior Design Project Goal

- **Develop a Plan**
that will create an entire
environment that supports
and encourages biking.



Photo credit: J. LaMondia

Considerations

- **Design Standards**
- **Network Continuity**
- **Ease of Use**
- **Safety & Perceived Safety**

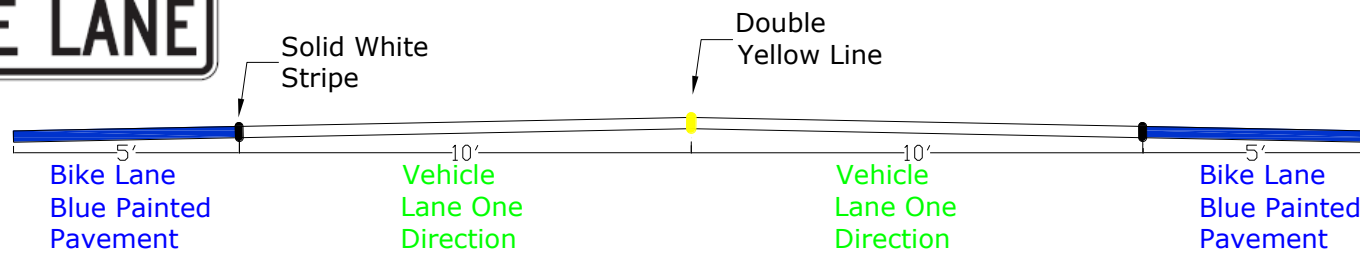


Photo credit: J. LaMondia

- **Bike Lane**
 - **Separate Bike Only Lane**
 - **Right Side of Road**
 - **5 ft Width**
 - **One Way Traffic**



Photo credit: www.capitolbikeandwalk.org



- **Sharrow**
 - **Directs Bike Traffic Without Lane Markings**
 - **Between Traffic and Parking**
 - **Slightly Less than 5'-width**
 - **One Way Traffic**

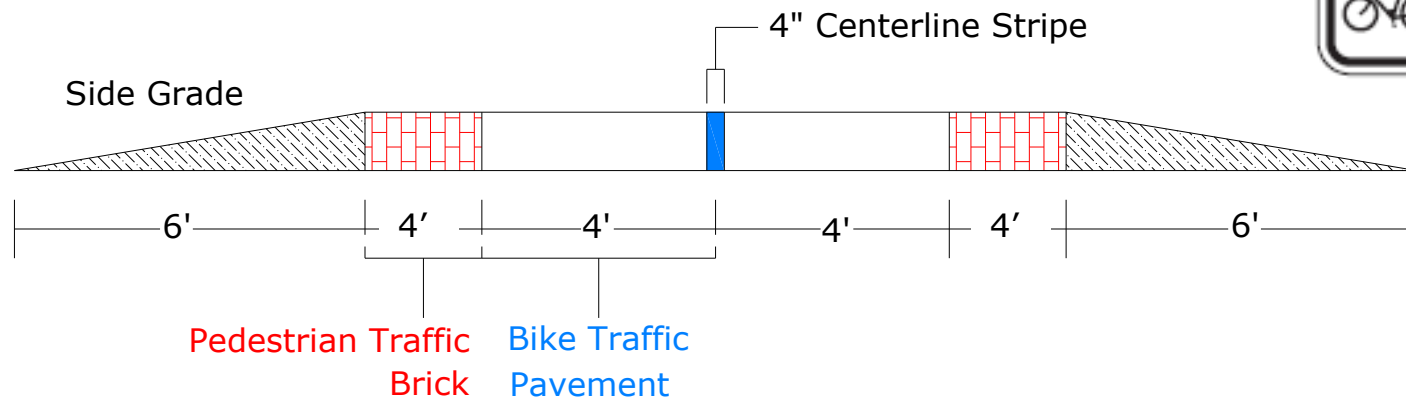


Photo credit: www.labreform.org

- **Shared Use Path**
 - **Bike/Ped Traffic Only**
 - **Off-Road**
 - **14 ft Width**
 - **Two Way Traffic**



Photo credit: www.beaverisland.net



- **Signed Roadways**
 - Minimal Traffic
 - Signage Only
 - Designated Bike-Safe



Final Network Design



Legend

Bike Lane

Sharrow

Shared Use Path

Signage

Final Network Design

Legend

Bike Lane



Sharrow

Shared Use Path

Signage



Final Network Design

Legend

Bike Lane

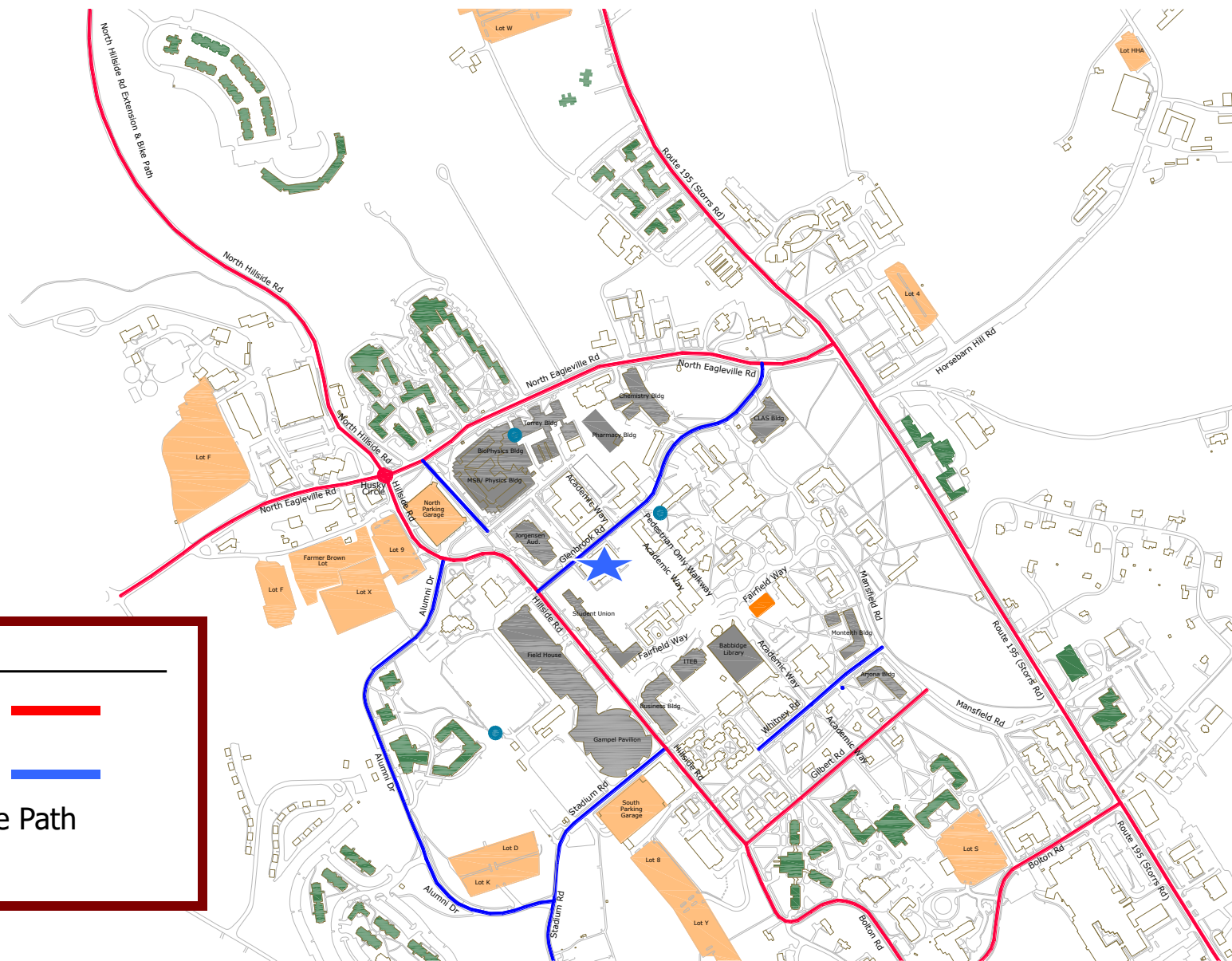


Sharrows



Shared Use Path

Signage



Final Network Design

Legend

Bike Lane



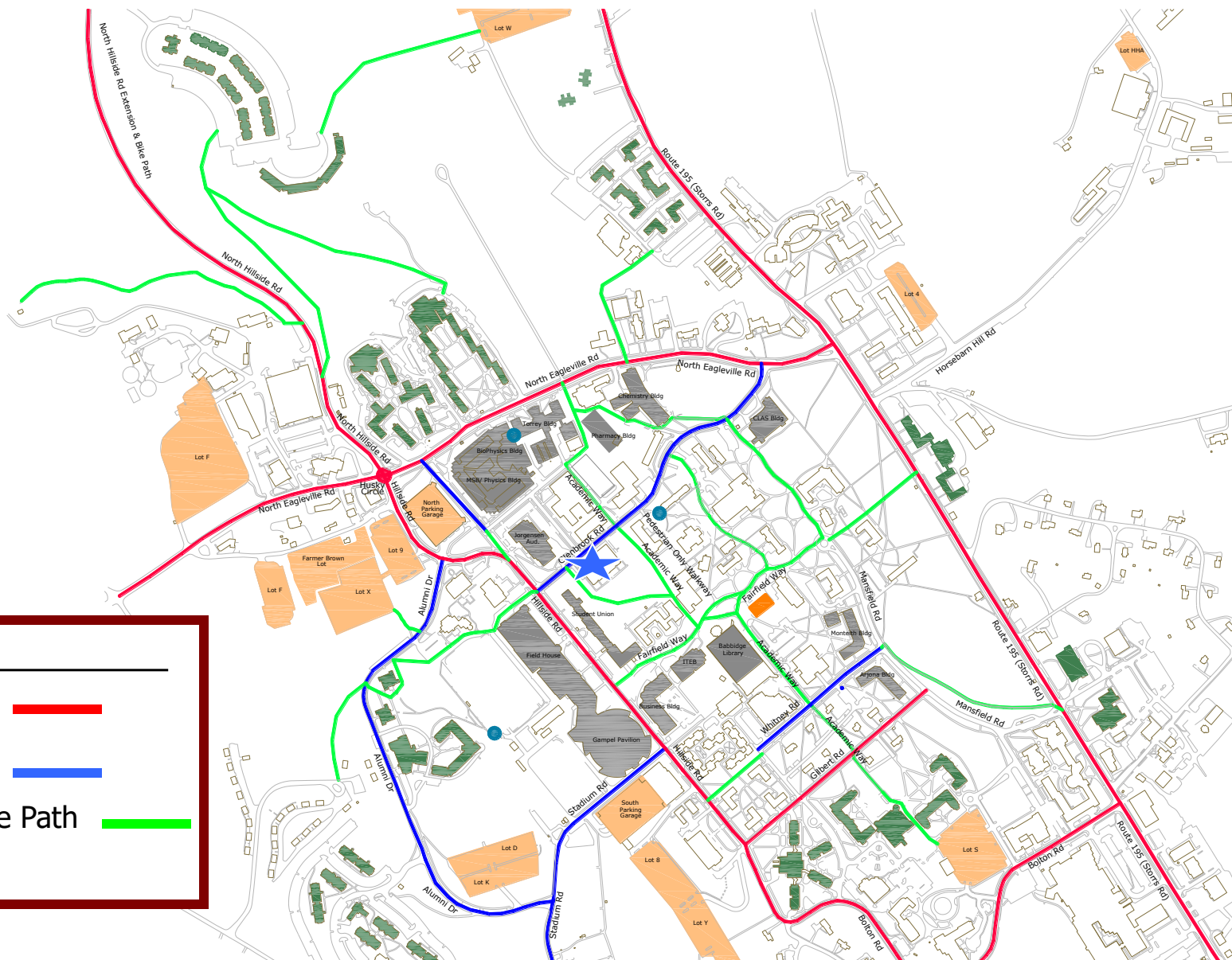
Sharrow



Shared Use Path



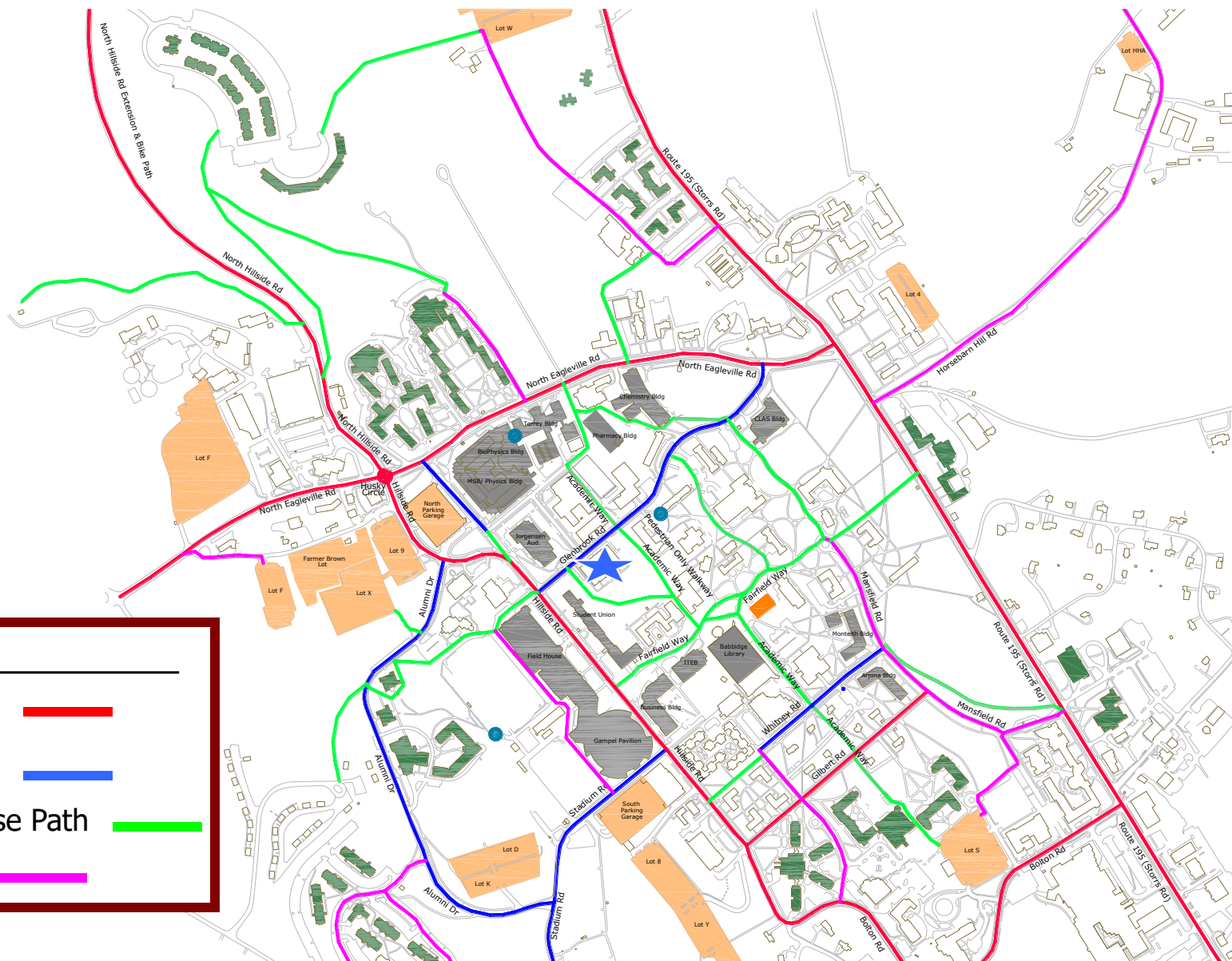
Signage



Final Network Design

Legend

- Bike Lane 
- Sharrow 
- Shared Use Path 
- Signage 



Final Network Design

- **Dismount Zones**
 - Pedestrian Sidewalks
 - Walk with Bike
 - Signage



Critical Areas

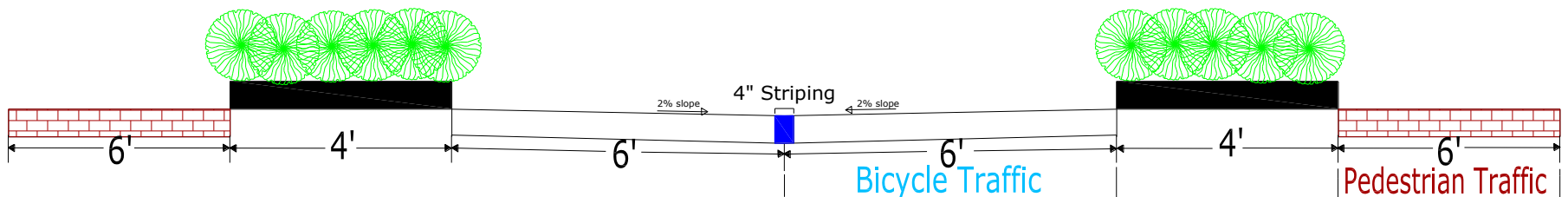
- **New Pathways**
 - Convenient
 - Alternate
 - Safer Routes



Photo credit: J. LaMondia

Critical Areas

- **Fairfield/ Academic Way**
 - **Separated Users**
 - **Vibrant Center**
 - **Spaced Planters**



Critical Areas

- **Intersections**
 - **Reduce Conflicts**

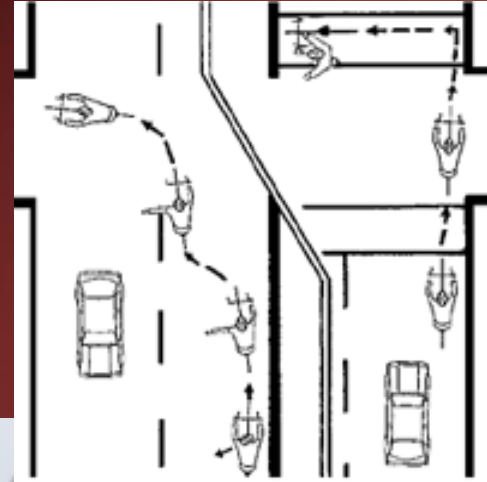
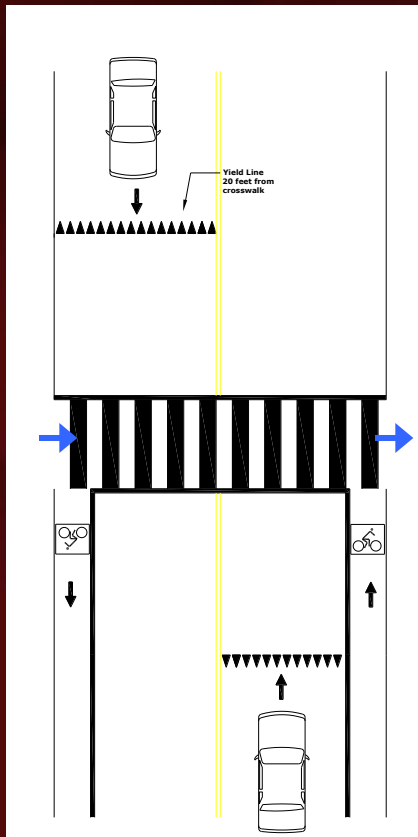


Photo credit: J. LaMondia

- **Route 195/ N. Eagleville Rd**



Photo credit: J. LaMondia

Before

Bike LOS: **D**

No Bike Lanes

Speed Limit: 30-35 mph

Wide Lanes

No Shoulders

No Median

After

Bike LOS: **C**

Bike Lanes

Speed Limit: 30 mph

Traffic Calming

Median



Critical Areas

- **Glenbrook Road**
 - **Choker**
 - **Raised Crosswalk**

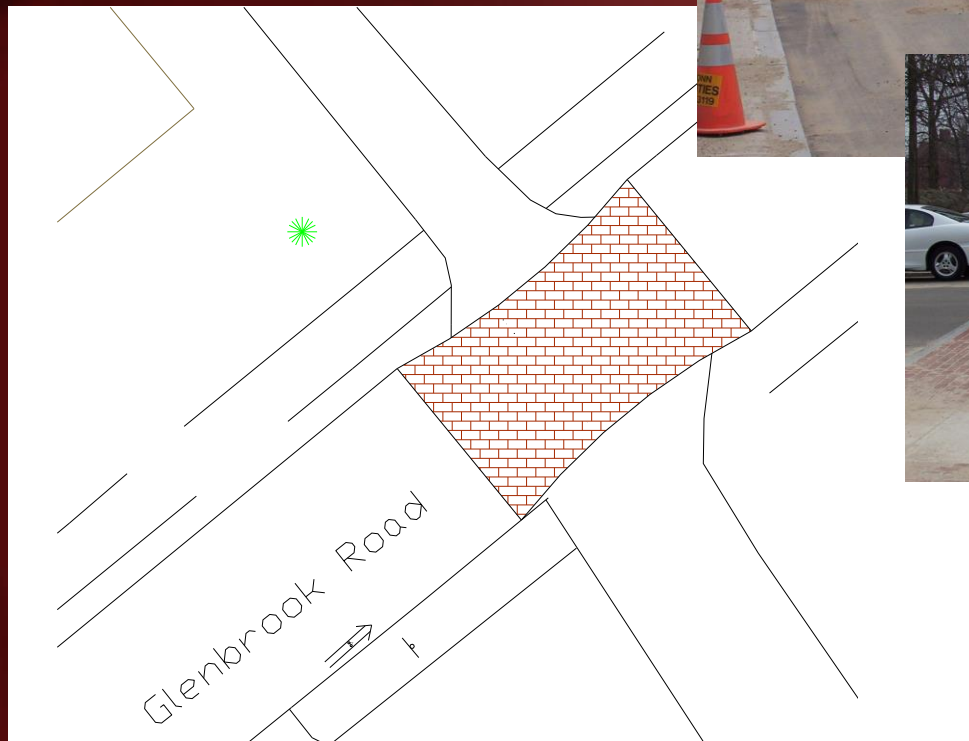


Photo credit: J. LaMondia

Infrastructure Development

- **Bike-Friendly Stairs**
 - Groove for Bike
 - Access to More Areas
 - Important Locations
 - Hilltop Suites
 - Glenbrook Rd
 - BioPhysics Bldg
- **Drain Retrofit**
 - Even Surface

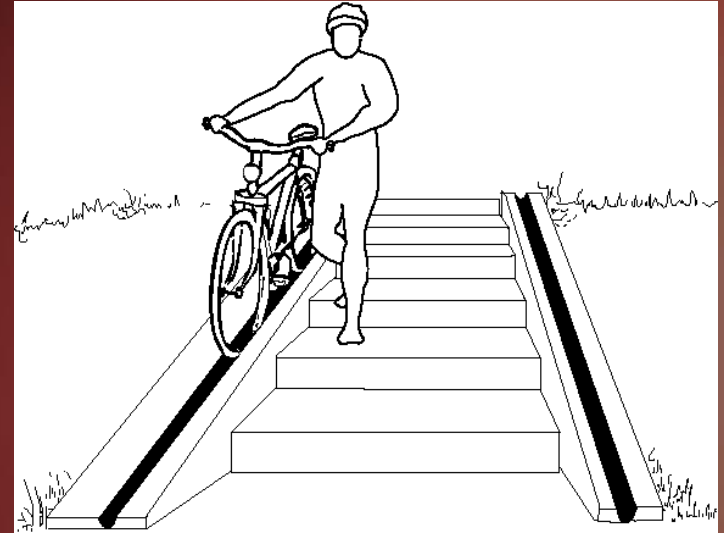


Photo credit: J. LaMondia

Infrastructure Development

- **Bike Racks**
 - **Within 20 ft**
 - **Bus Racks**
 - **Weather Considerations**
 - **Recognizable**
 - **Parking Garages**



Photo credit: J. LaMondia



Photo credit: www.dero.com

Infrastructure Development

- **Long Term Storage**
 - **Locate at Parking Lots**
 - **Park and Bike**
 - **Safe and Convenient**
 - **Incentives**
 - **Revenue Generating**
 - **Self-Sustaining**

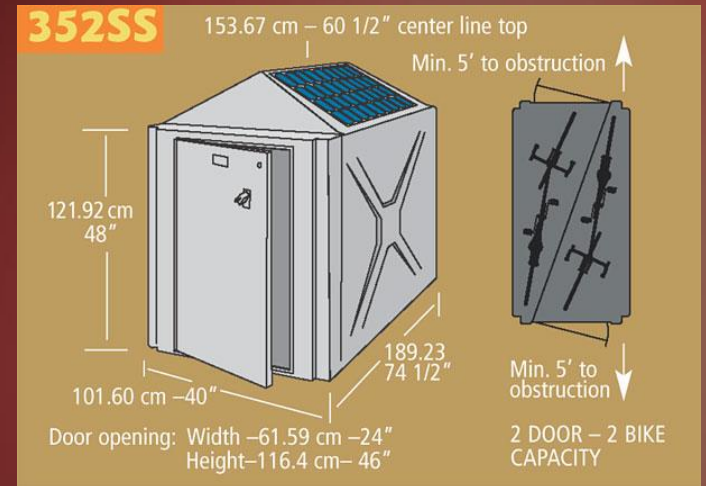


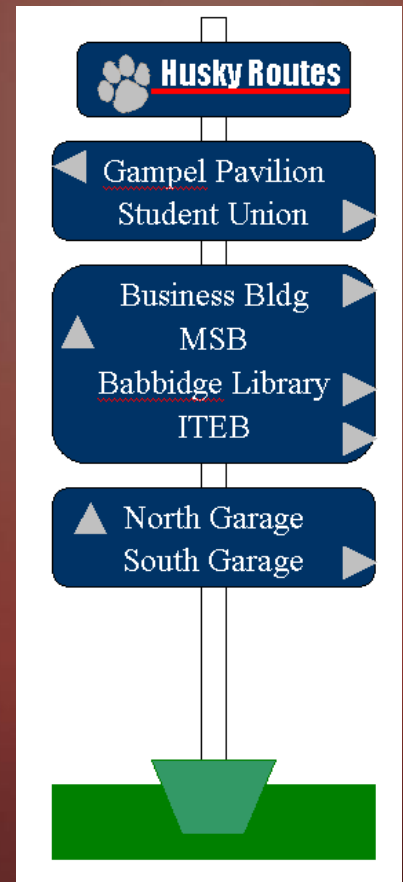
Photo credit: www.ameribike.com



Photo credit: www.washington.edu

Recommendations

- **Develop Education Programs**
- **Create Incentives**
- **Start Rental Program**
- **Implement Enforcement**
- **Add Bicycle Way-finding Signs**



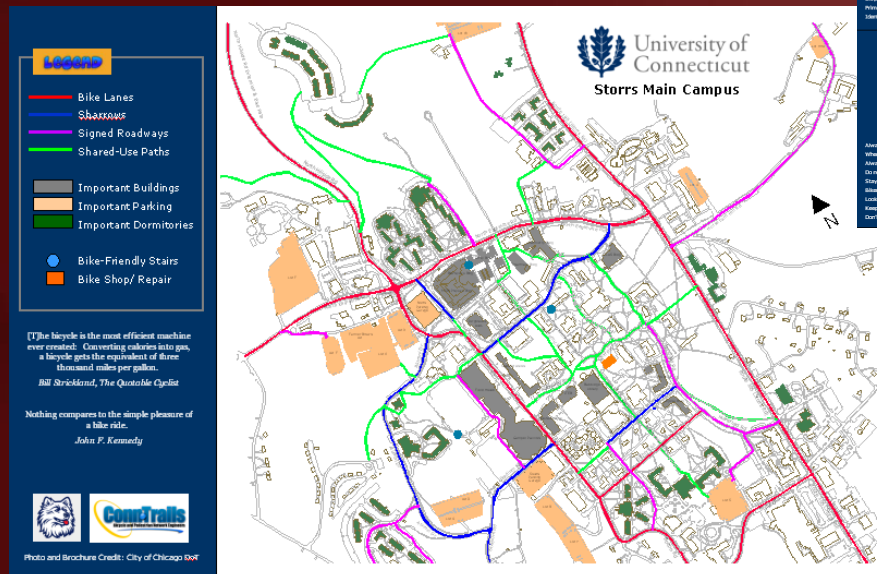
Recommendations

- **Bike Shop / Repair**
 - On Campus (& Storrs Downtown)
 - Student Supported
 - Repair, Rental, & Retail



Recommendations

- **Campus Bike Map**
 - Promote Bike Ridership
 - Increase Awareness
 - Publicize Routes



Conclusions

- **There Is a Need and Interest**
- **A Key for the Future**
 - **Decrease Congestion**
 - **Improve Air Quality**
 - **Economic Benefits**
 - **Exercise!**



Photo credit: J. LaMondia

- **Important to Have a Complete Network**
 - **Continuous Routes**
 - Including new additions
 - **Intermodal Connections**
- **Supported By Programs & Infrastructure**

Acknowledgements

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Master Plan Committee

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Tim Veillette, Town of Mansfield

Lon Hultgren, Town of Mansfield

Bruce Landis, Sprinkle Engineering

Dr. Norman Garrick

AASHTO Bike Facilities Development Guide Manual on Uniform Traffic Control Devices Sprinkler BCI LOS



Photo credit: www.tfhr.gov

**Safety Steph wants to know:
Y'all have any questions?**



"The bicycle is the most efficient machine ever created: Converting calories into gas, a bicycle gets the equivalent of three thousand miles per gallon."

Bill Strickland, The Quotable Cyclist

