

Protected Bikeways Update to the Bicycle Master Plan

Minneapolis City Council
Transportation & Public Works
Committee 4/29/2014

Overview

- Product: List/map of priority locations, capital, operating/maintenance costs
- Addendum to existing plan
- Complete by end of 2014
- Monthly discussions with Bicycle Advisory Committee
- Regular discussions with Hennepin County

Public Open House

**Thursday, May 8
4:30-7:30pm
Minneapolis Central Library
300 Nicollet Mall**

Joint meeting with Hennepin County
for County Bike Plan update

Key question:
Where are protected bikeways needed?

What is a protected bikeway?

A bicycle facility that is physically separated from motor vehicle traffic.

Off-street trails are the most common type of protected bikeway.

Protected bikeways may also be located within street corridors and separated from traffic lanes through parked cars, curbs, medians, bollards/flexible traffic posts, planters or other vertical feature.

What is a protected bikeway?



Midtown Greenway, Minneapolis

What is a protected bikeway?



Cedar Lake Trail, Minneapolis

What is a protected bikeway?



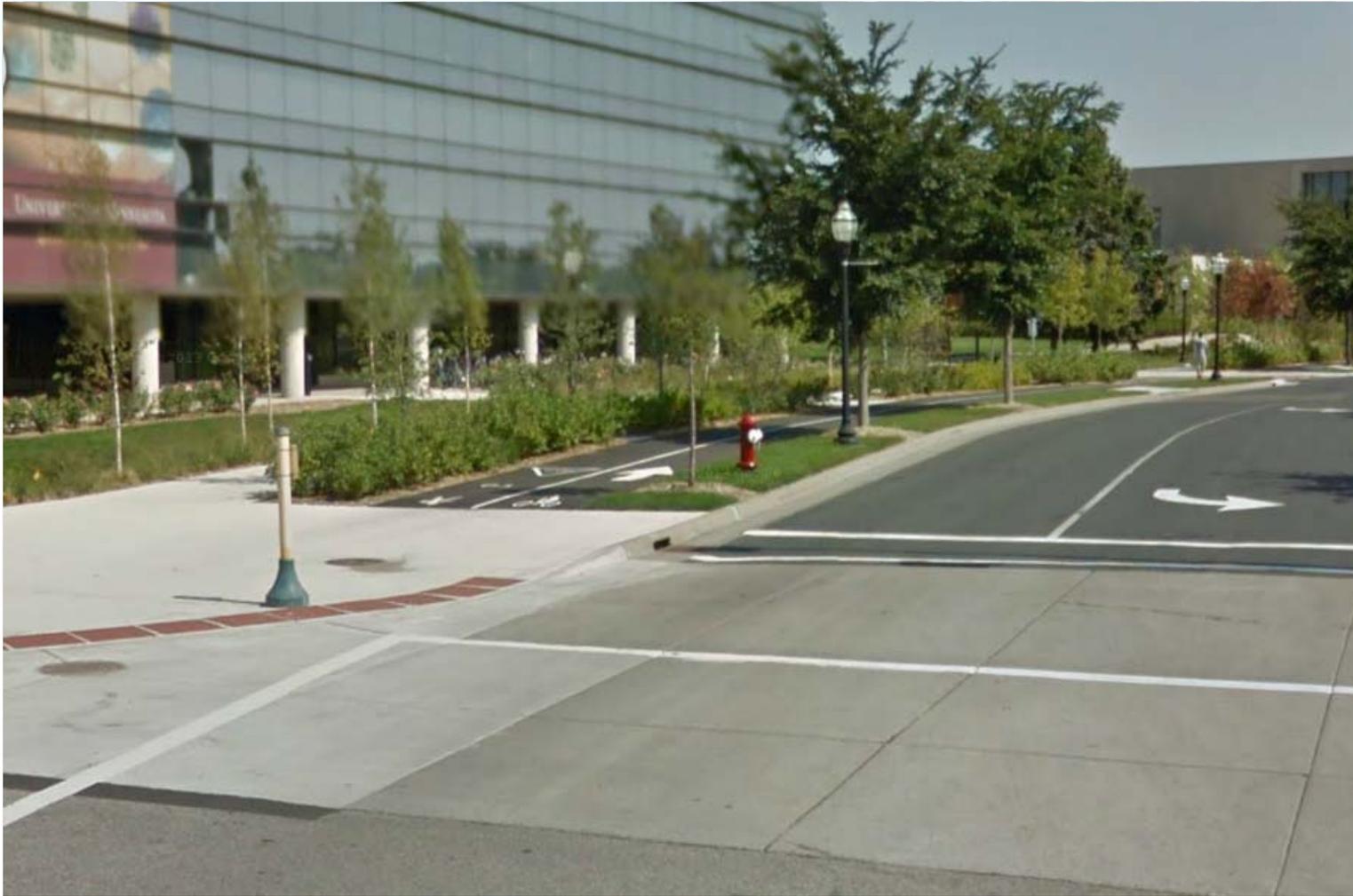
West River Parkway, Minneapolis

What is a protected bikeway?



Loring Bikeway, Minneapolis

What is a protected bikeway?



Dinkytown Greenway along 6th St SE, Minneapolis

What is a protected bikeway?



Plymouth Avenue Bridge over Mississippi River, Minneapolis

What is a protected bikeway?



1st Avenue N, Minneapolis

What is a protected bikeway?



Copenhagen

What is a protected bikeway?



Austin

What is a protected bikeway?



Credit: Chicago Tribune

Chicago

What is a protected bikeway?



Chicago

What is a protected bikeway?



Credit: The Green Lane Project

New York

What is a protected bikeway?



New York

What is a protected bikeway?



Vancouver

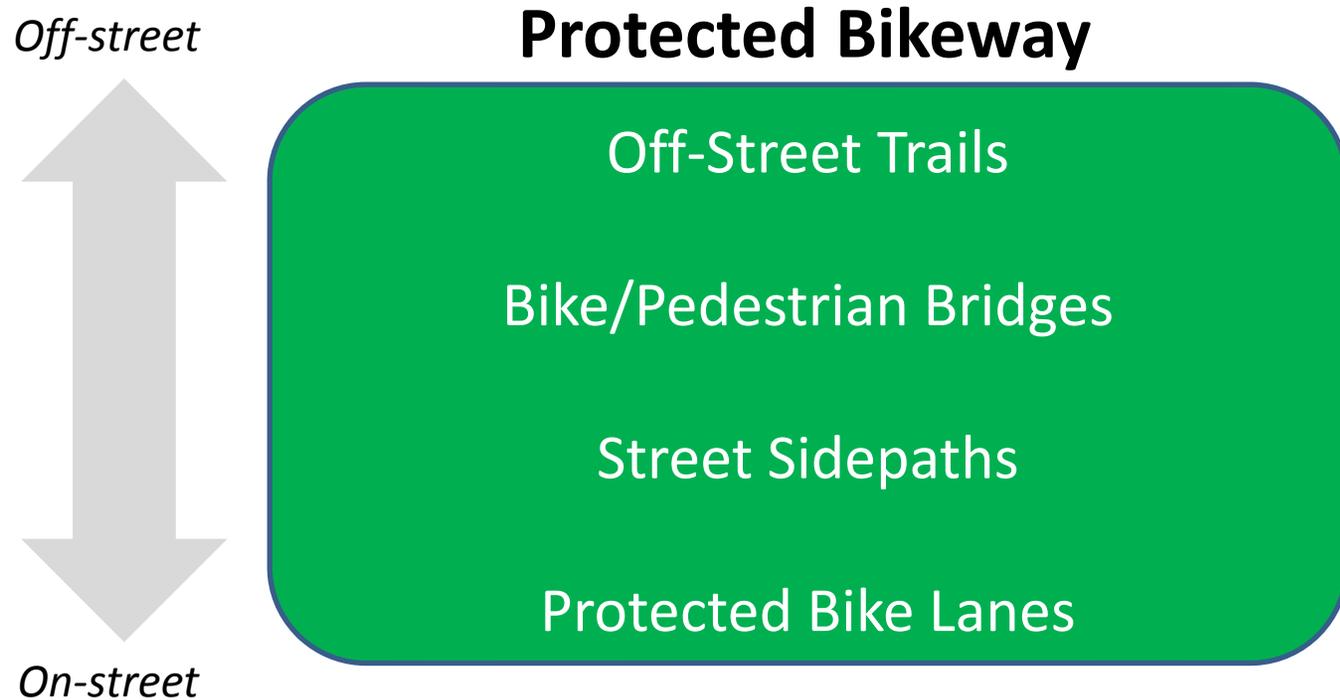
What is a protected bikeway?



Credit: Paul Kreuger,

Vancouver

What is a protected bikeway?



Other terminology:

- Cycletracks
- Raised Bike Lanes

Other Types of Bikeways

Protected bikeways are not the only tool in our toolbox.
Protected bikeways do not include these facility types.

Bike Lanes

Bike Lanes
Buffered Bike Lanes
Contraflow Bike Lanes
Advisory Bike Lanes
Shoulders on Bridges

Shared Lanes

Shared Use Lane Markings
Signed Bike Routes
Shared Bus/Bike Lanes

Bike Boulevards

Bike Boulevards

Bike Lanes

Bike Lane



1st Avenue South, Minneapolis

Buffered Bike Lane



1st Avenue South, Minneapolis

Contraflow Bike Lanes
Advisory Bike Lanes
Shoulders on Bridges

Shared Lanes

Shared Use Lane Markings



Bryant Avenue South, Minneapolis

Signed Bike Routes



4th Avenue N, Minneapolis

Shared Bike Bus Lanes

Bike Boulevards



Emerson Avenue North/22nd Avenue Northeast

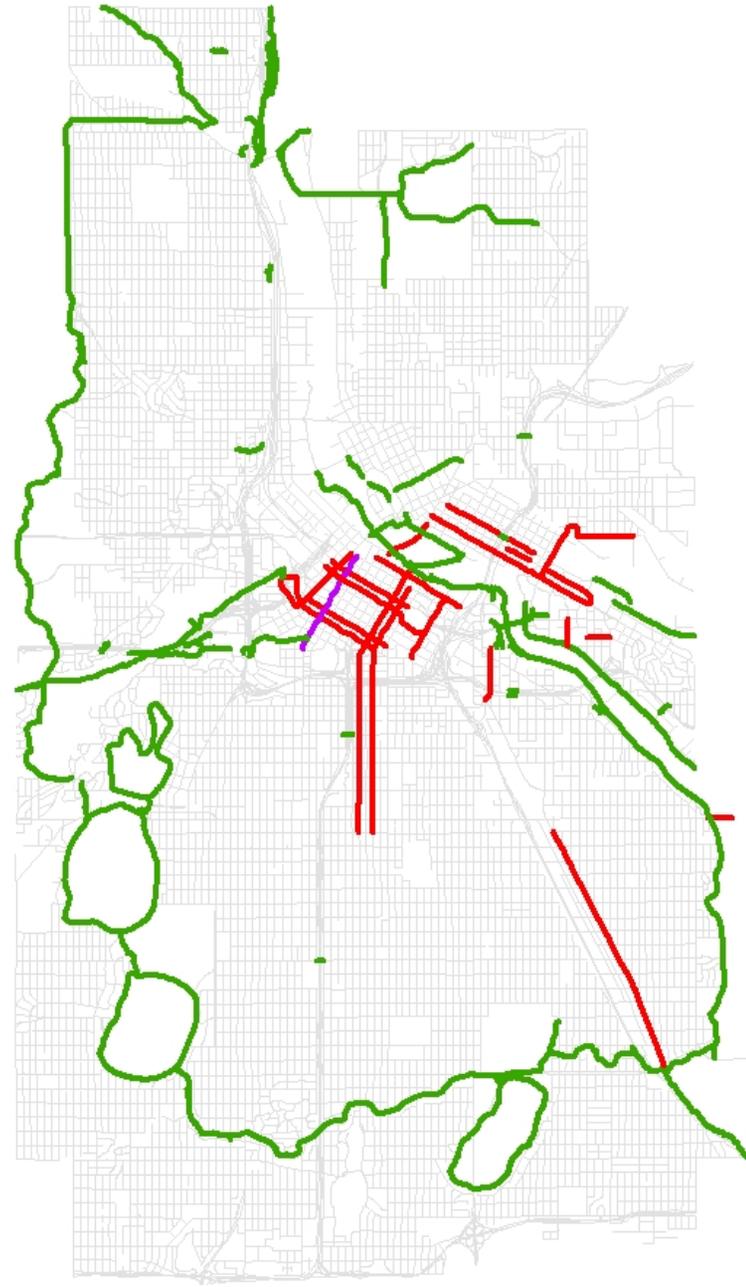


5th Street Northeast

1997 Bikeway Network

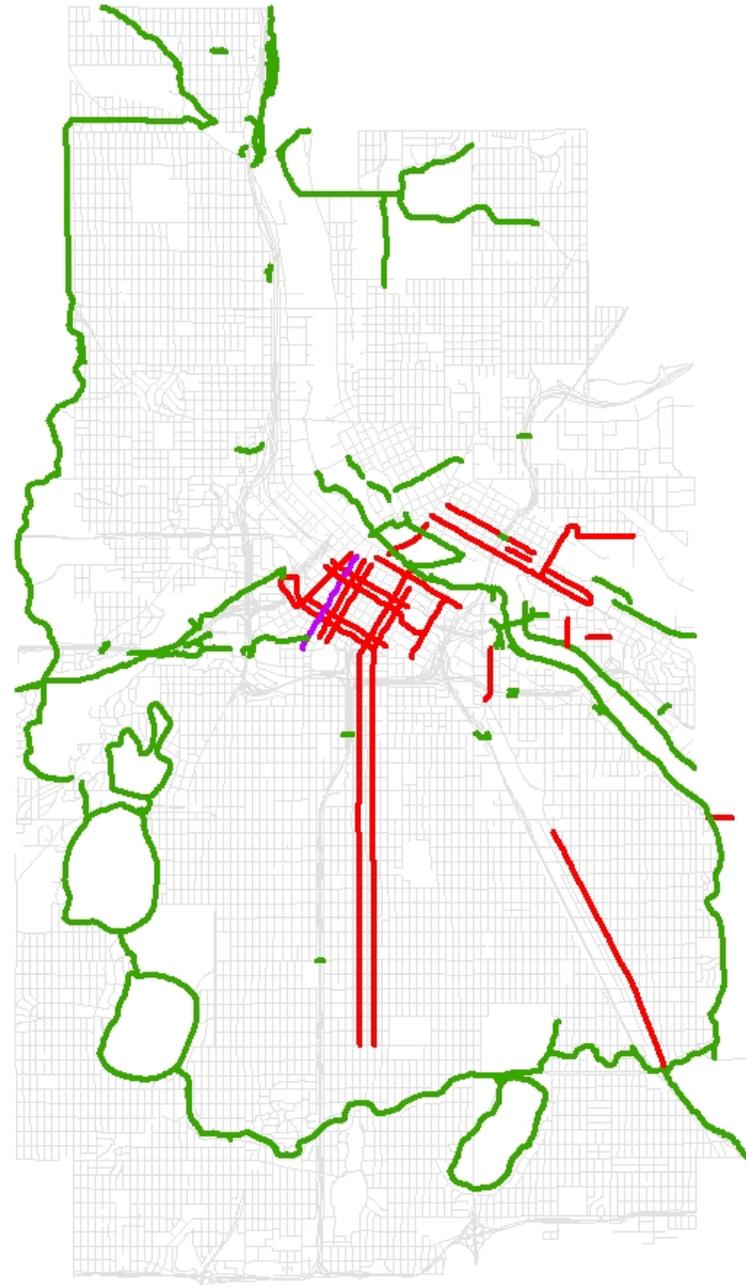
Bikeway Mileage

■	Protected Bikeways:	62 miles
■	Bike Lanes:	19 miles
■	Shared Lanes:	1 miles
<hr/>		
	Total:	82 miles



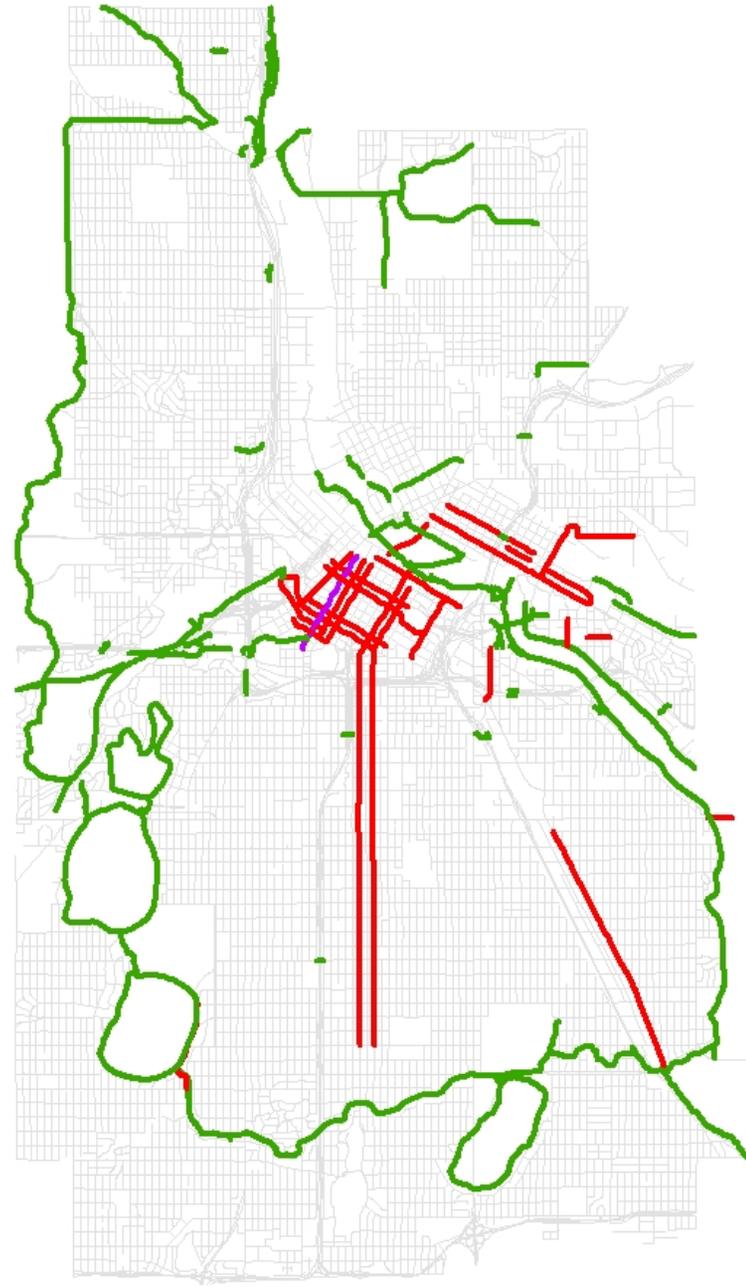
1998 Bikeway Network

- Protected Bikeways
- Bike Lanes
- Shared Lanes



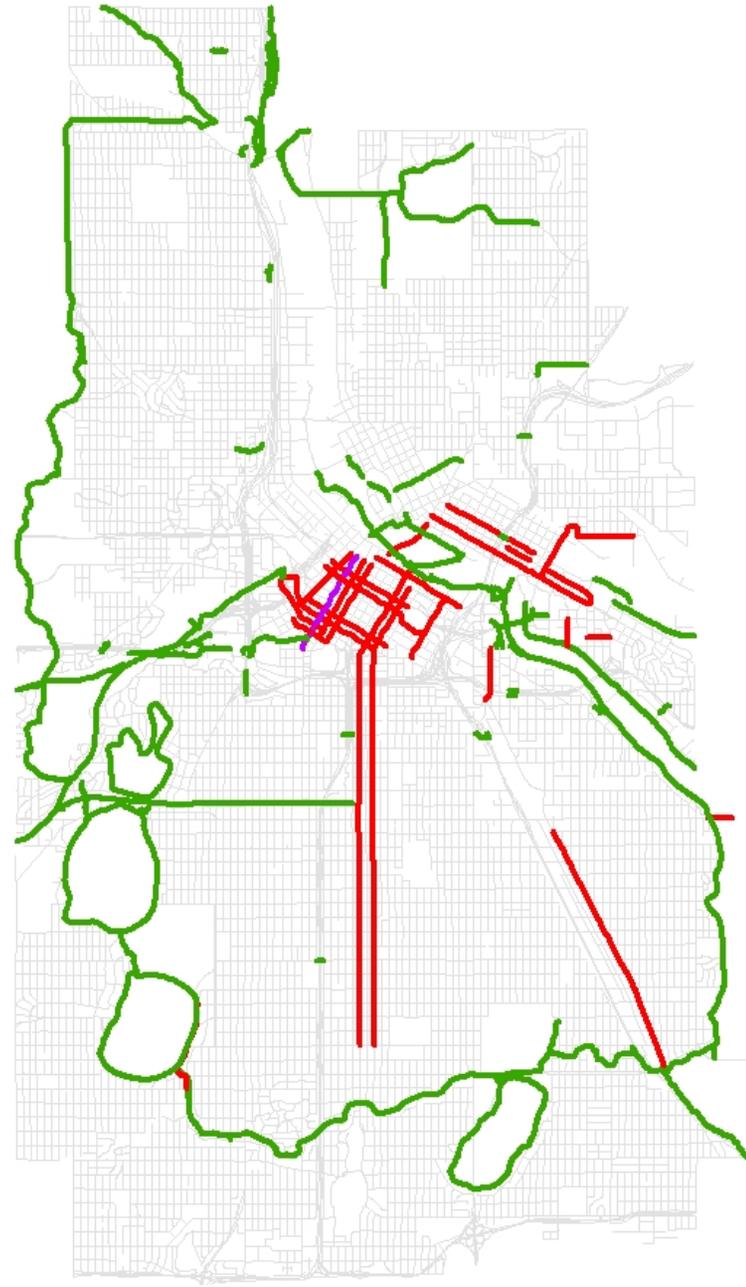
1999 Bikeway Network

- Protected Bikeways
- Bike Lanes
- Shared Lanes



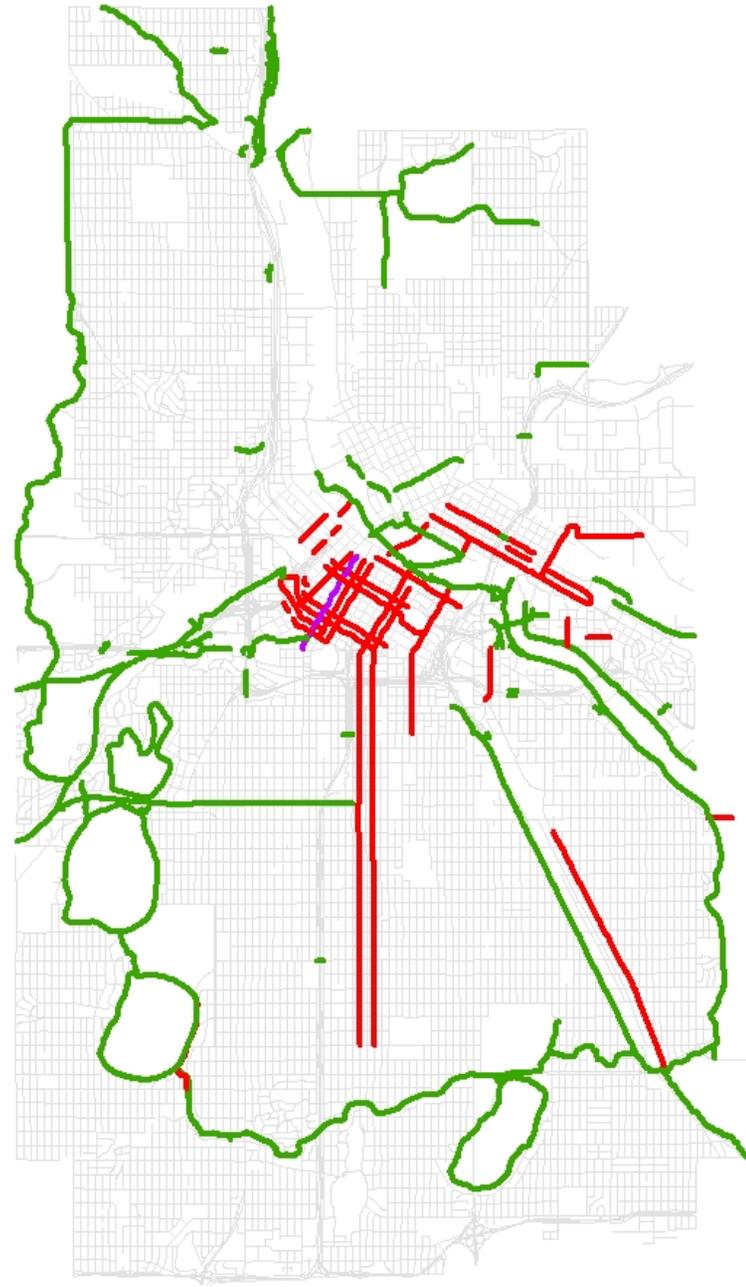
2000 Bikeway Network

- Protected Bikeways
- Bike Lanes
- Shared Lanes



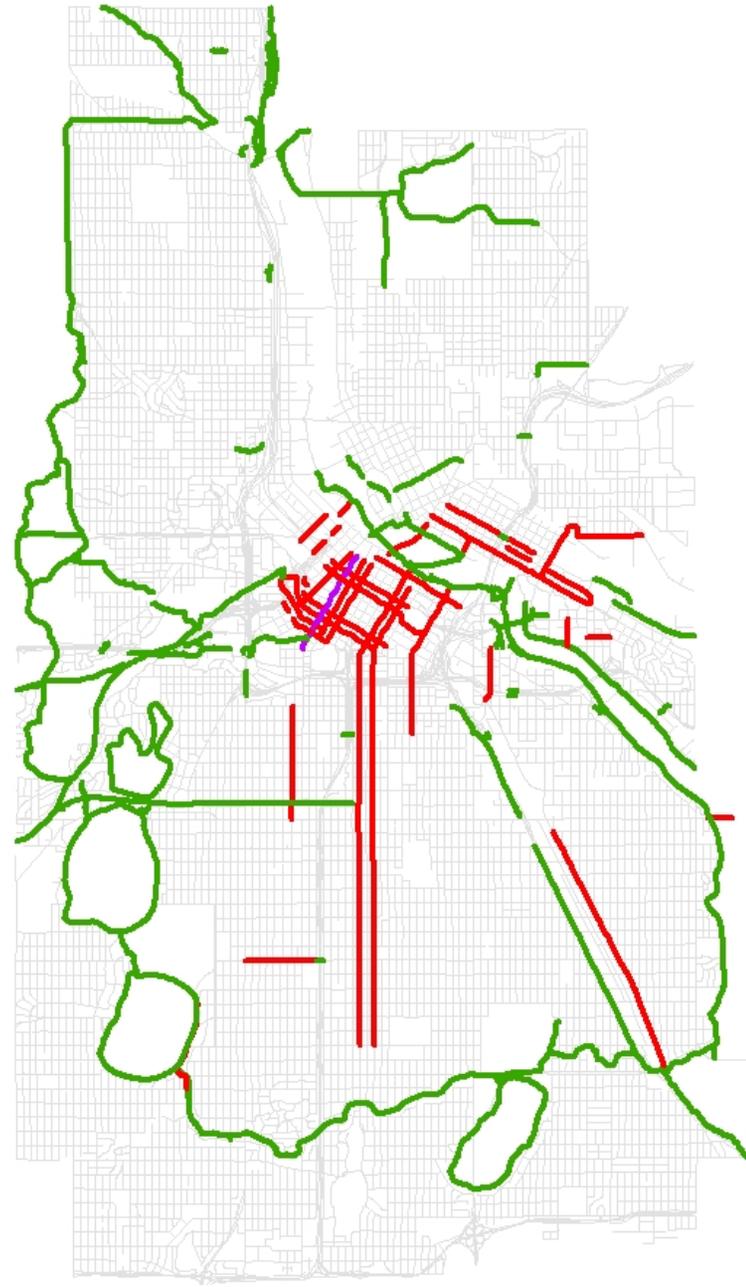
2001 Bikeway Network

- Protected Bikeways
- Bike Lanes
- Shared Lanes



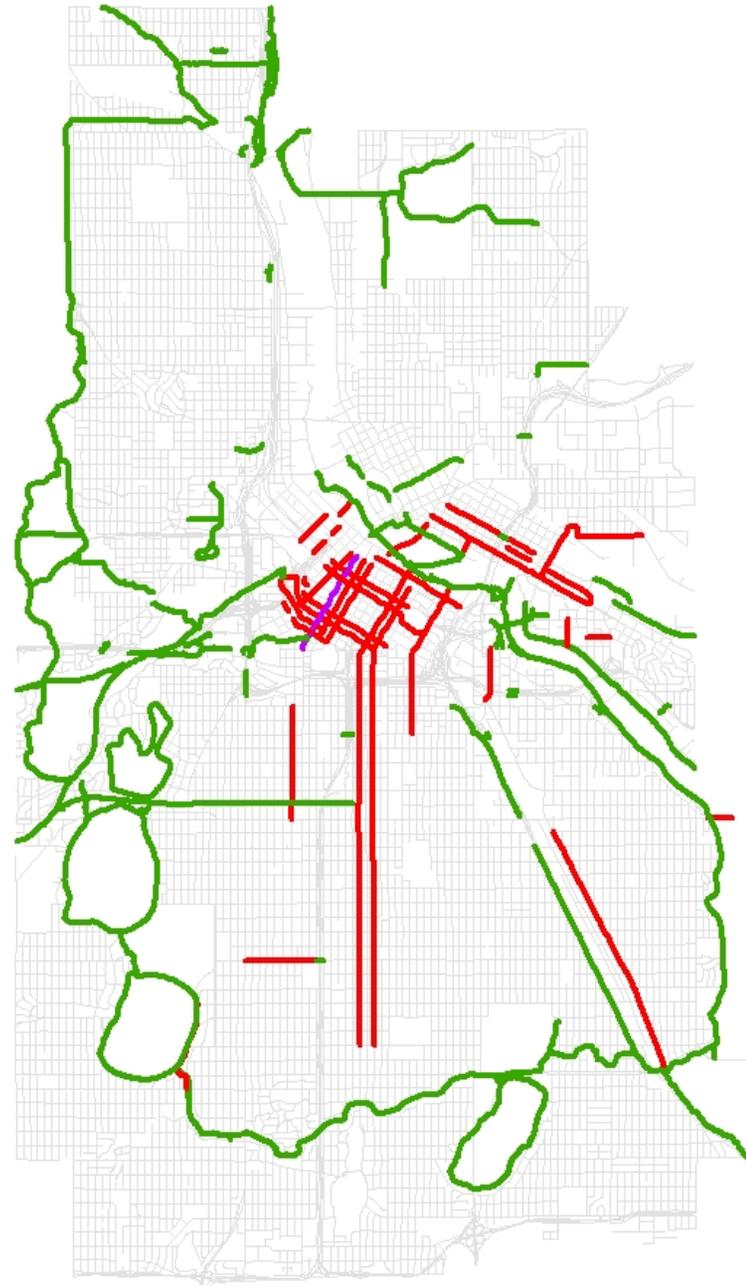
2002 Bikeway Network

- Protected Bikeways
- Bike Lanes
- Shared Lanes



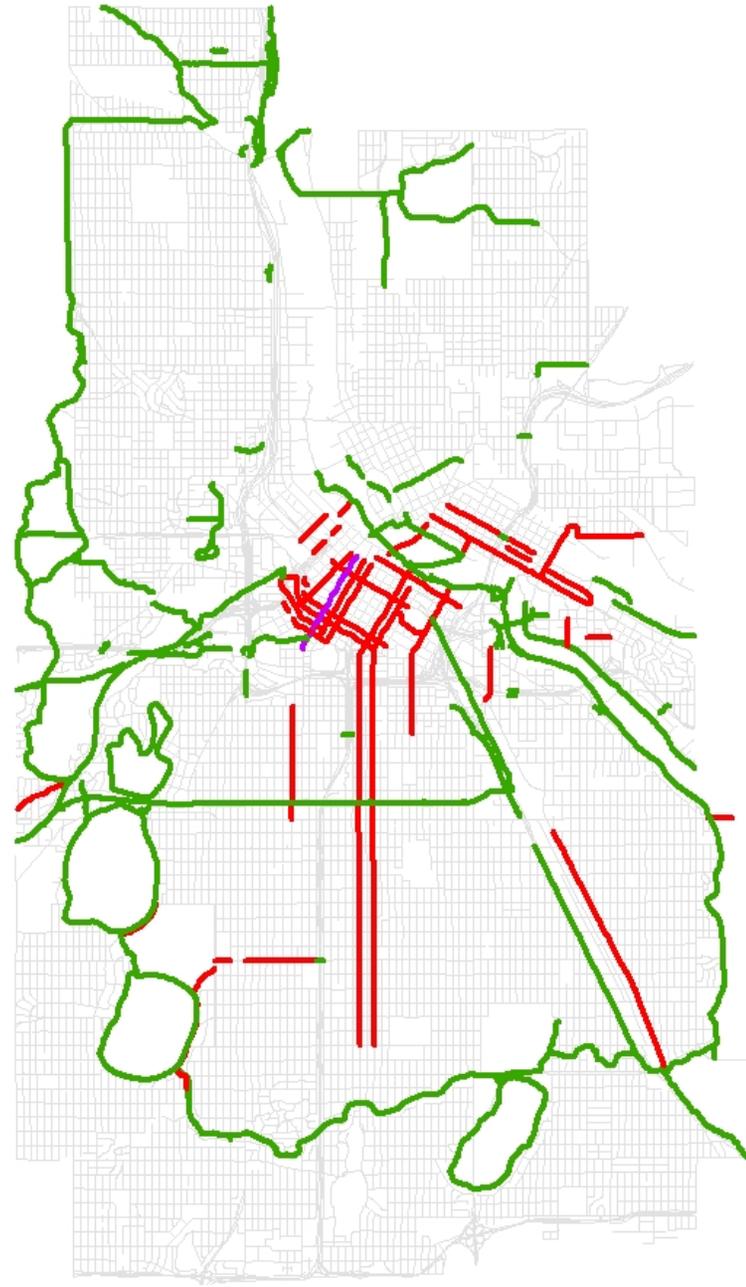
2003 Bikeway Network

- Protected Bikeways
- Bike Lanes
- Shared Lanes



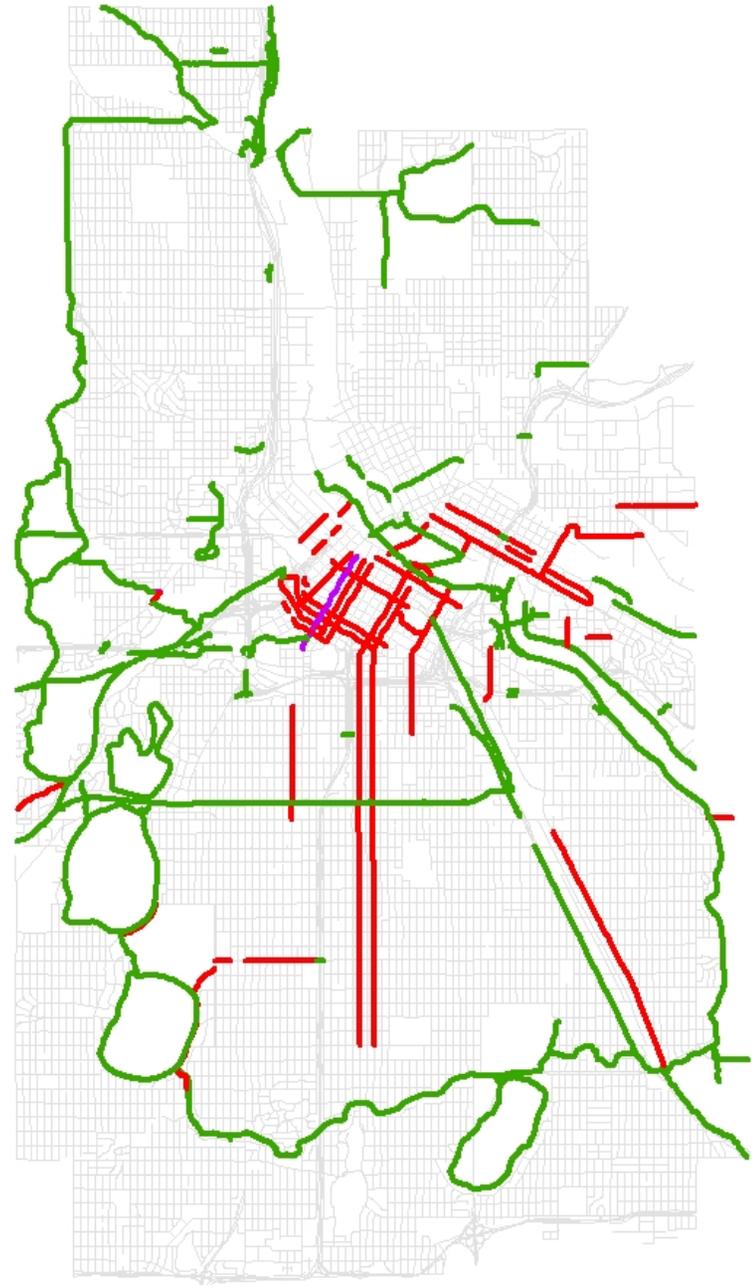
2004 Bikeway Network

- Protected Bikeways
- Bike Lanes
- Shared Lanes



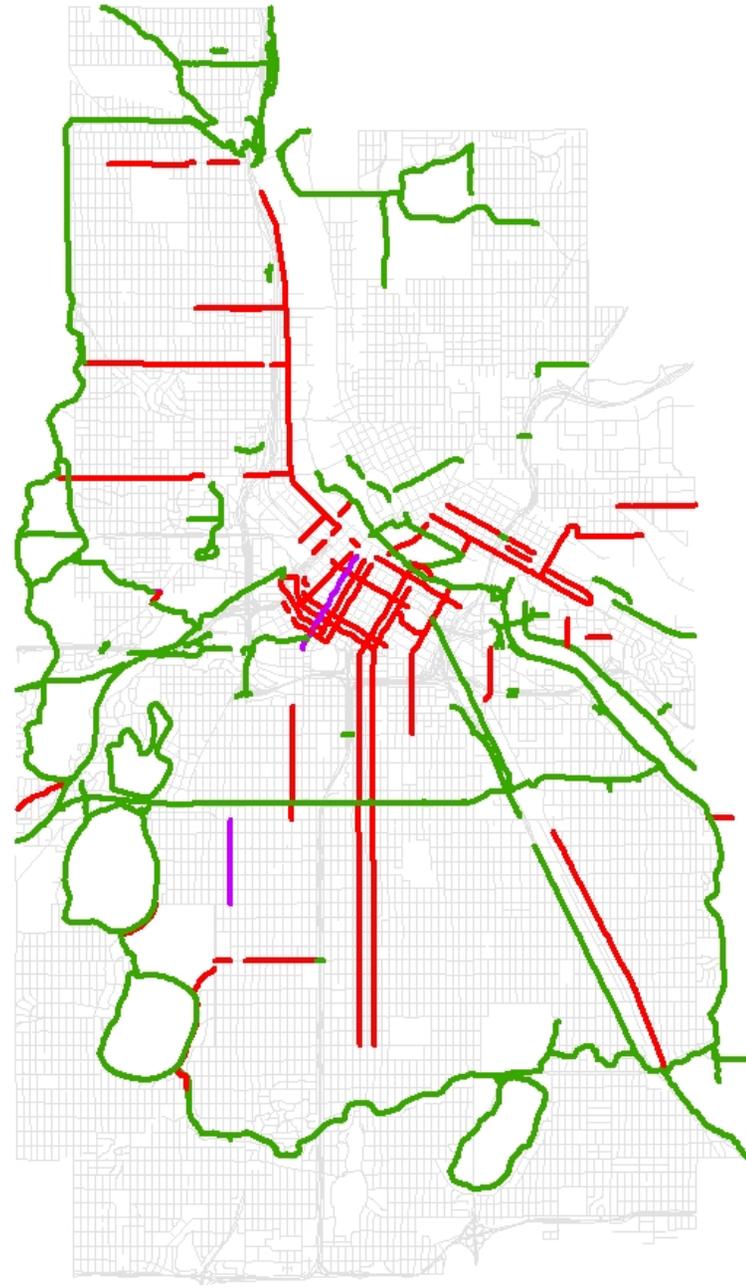
2005 Bikeway Network

- Protected Bikeways
- Bike Lanes
- Shared Lanes



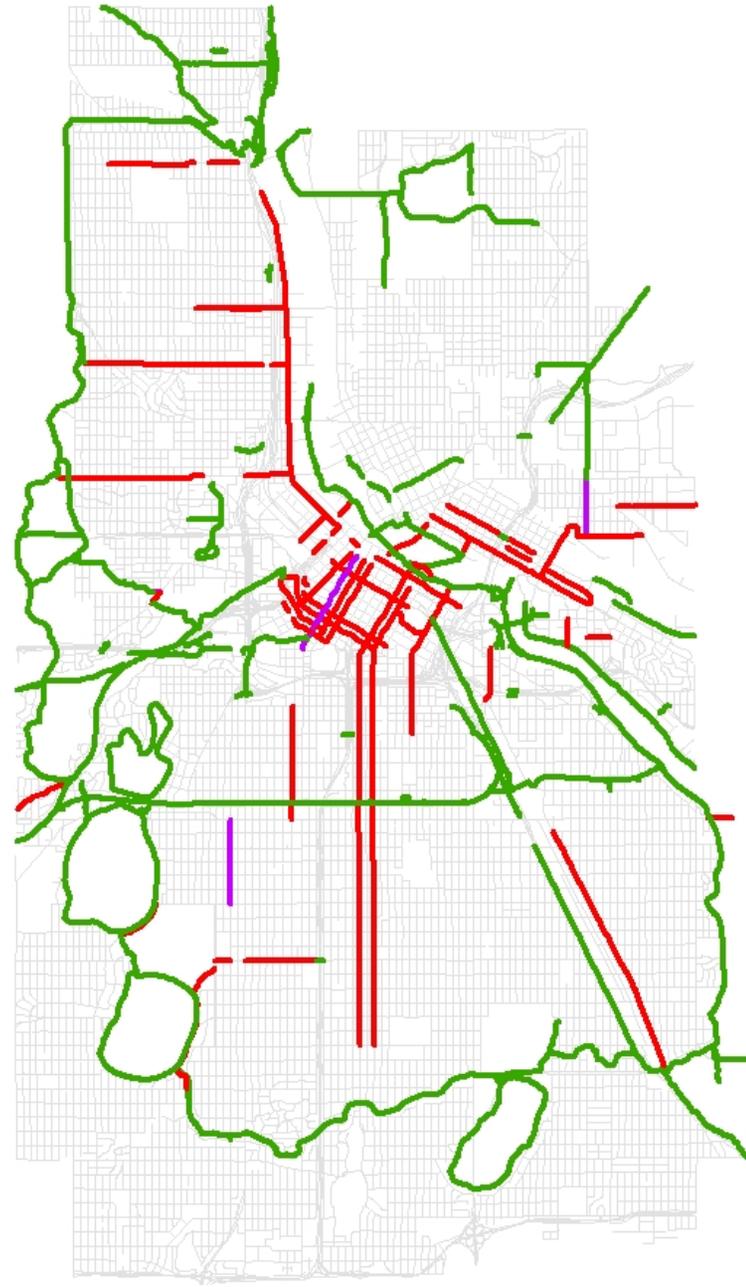
2006 Bikeway Network

- Protected Bikeways
- Bike Lanes
- Shared Lanes



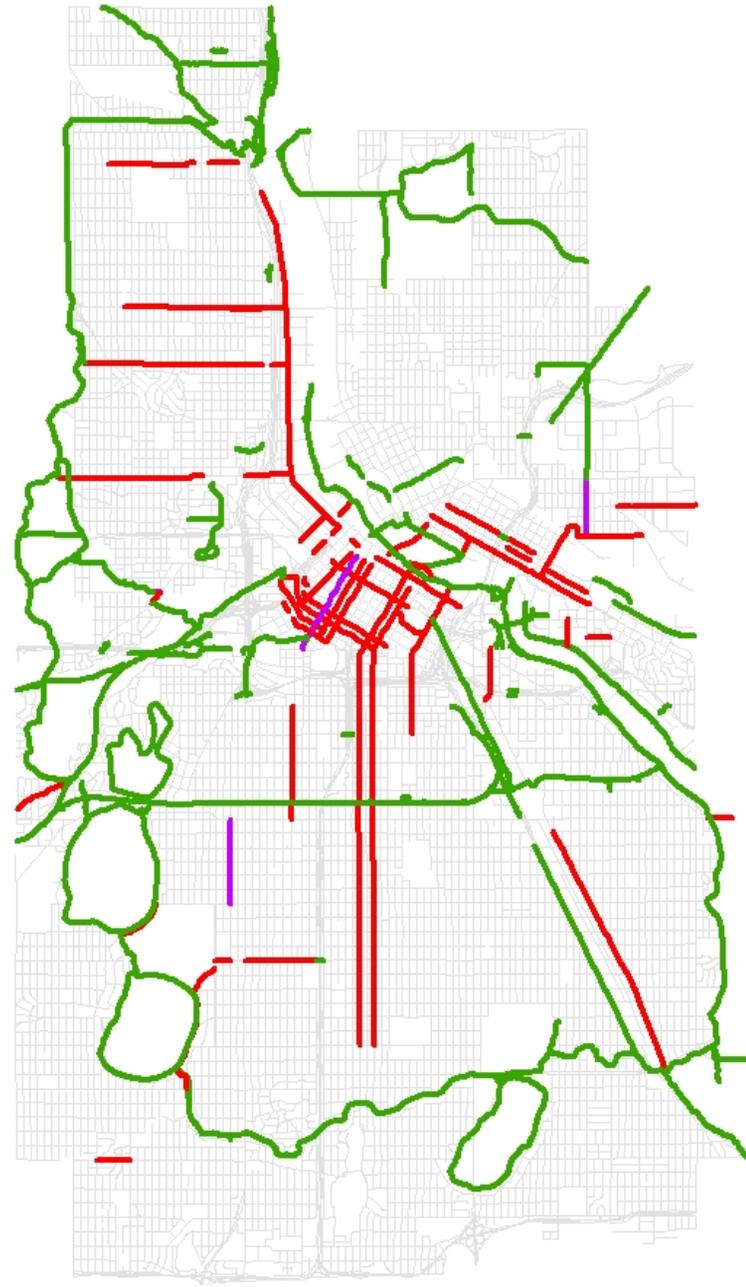
2007 Bikeway Network

- Protected Bikeways
- Bike Lanes
- Shared Lanes



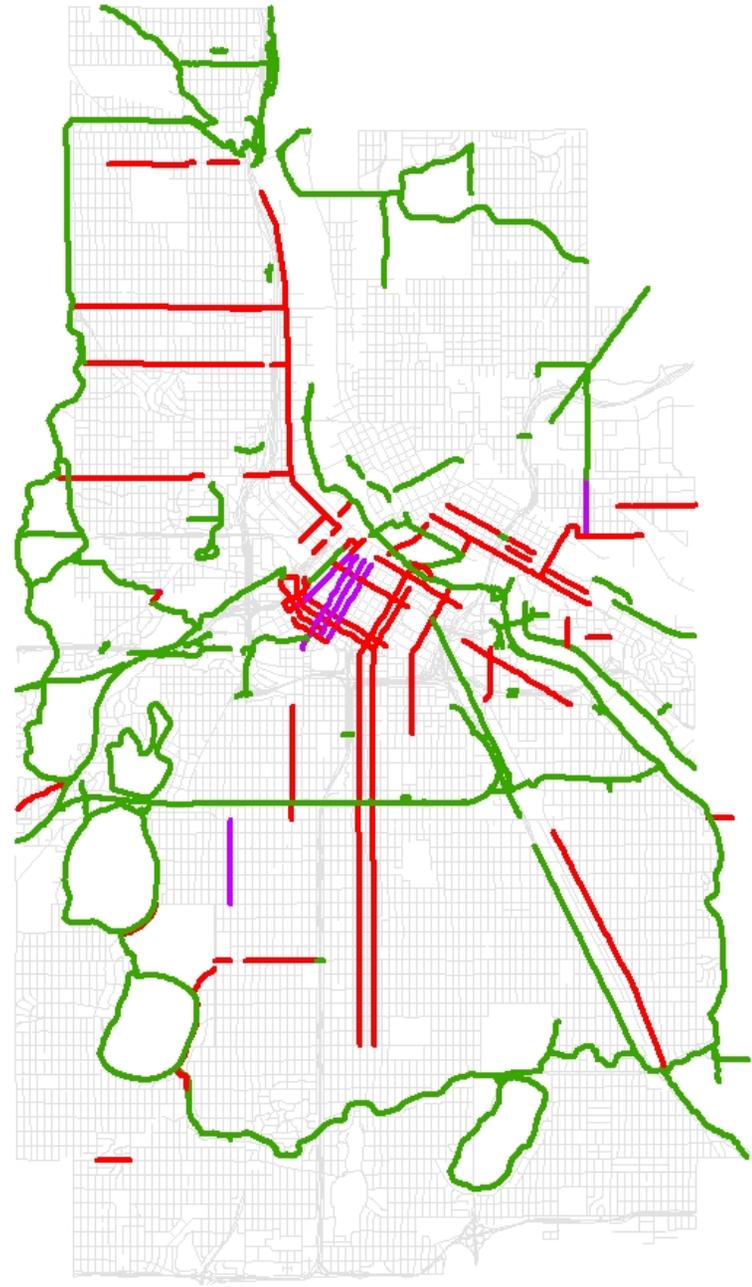
2008 Bikeway Network

- Protected Bikeways
- Bike Lanes
- Shared Lanes



2009 Bikeway Network

- Protected Bikeways
- Bike Lanes
- Shared Lanes

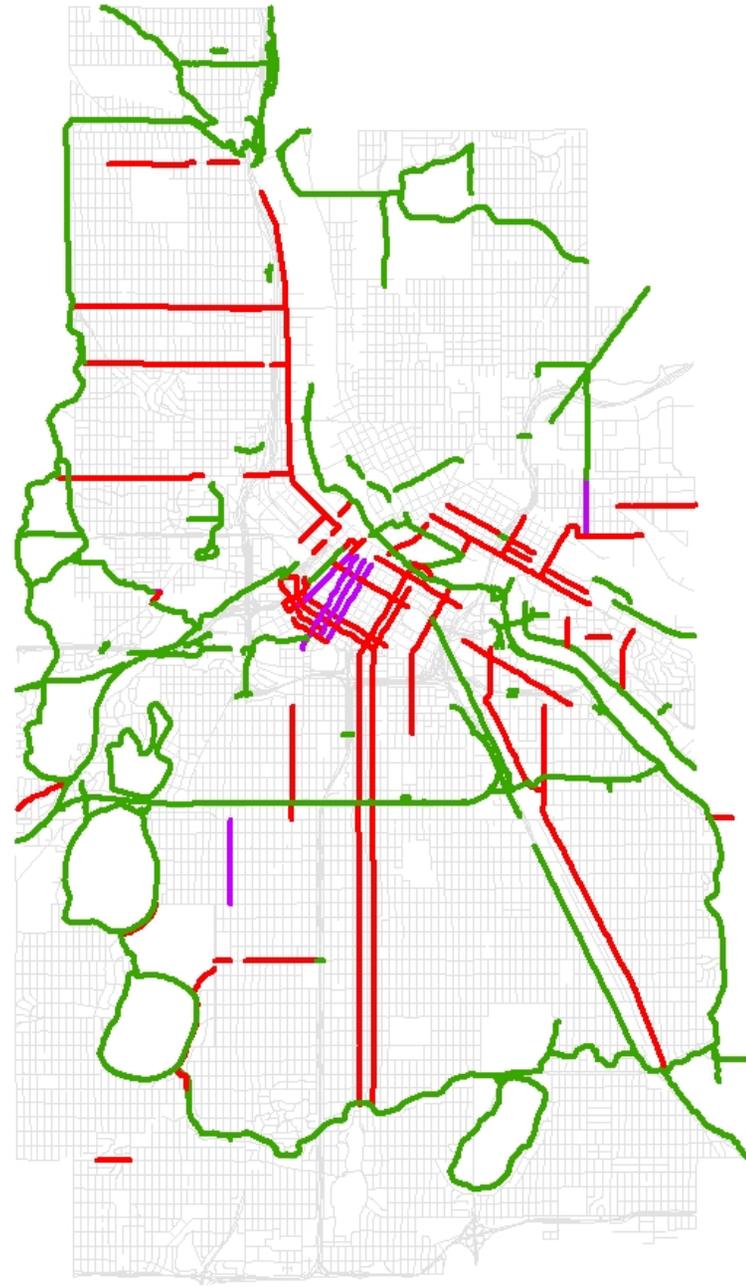


2010 Bikeway Network

Bikeway Mileage

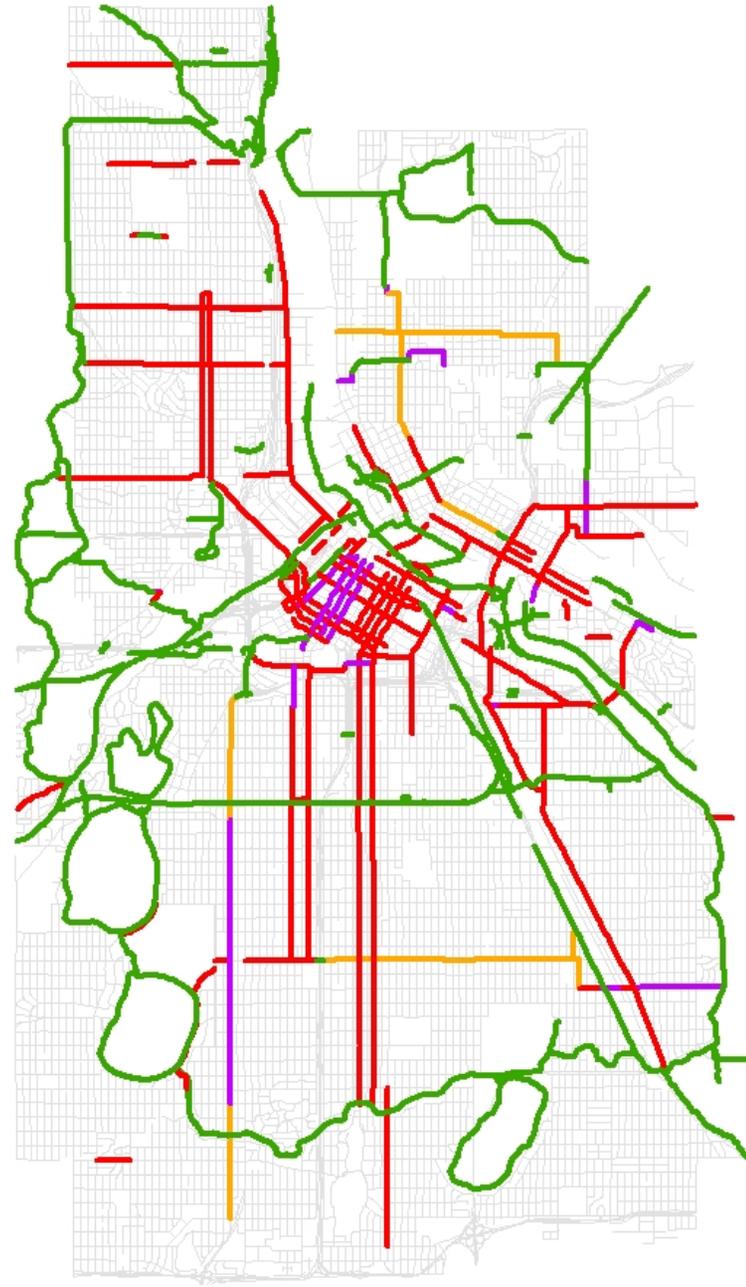
■	Protected Bikeways:	90 miles
■	Bike Lanes:	44 miles
■	Shared Lanes:	5 miles

Total: **139 miles**



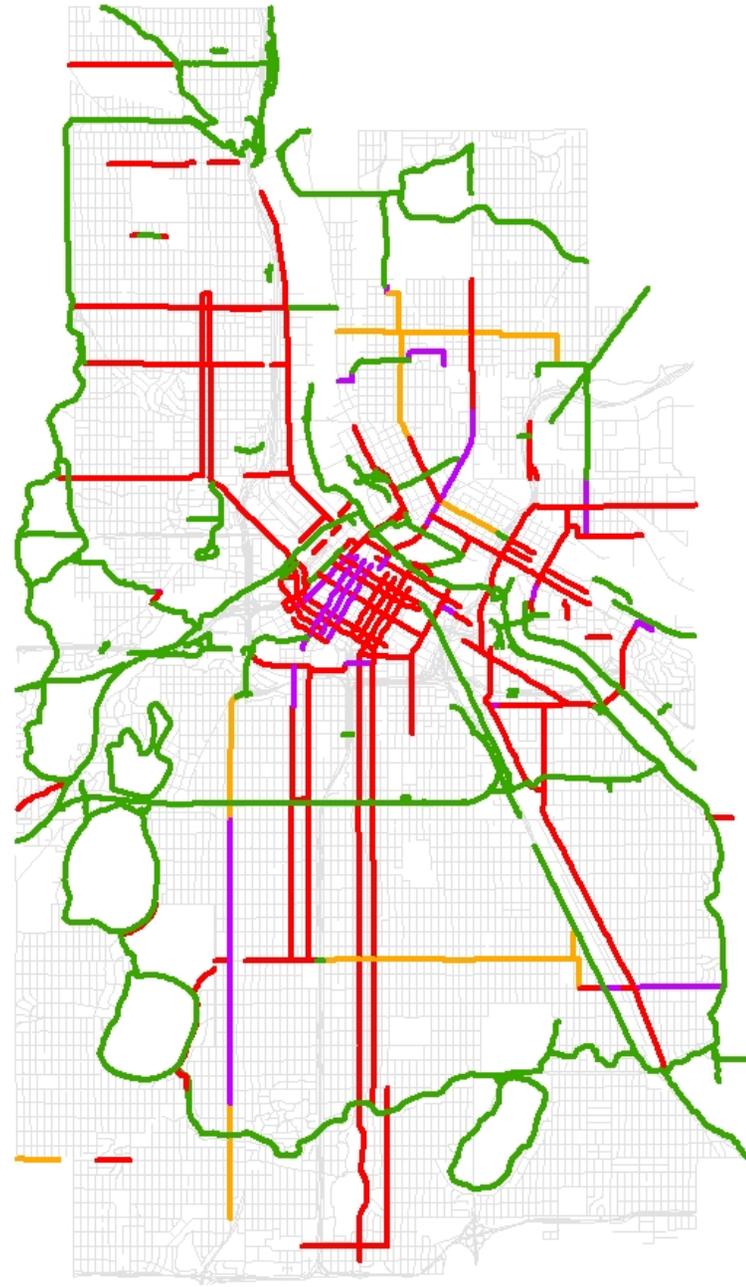
2011 Bikeway Network

- Protected Bikeways
- Bike Lanes
- Shared Lanes
- Bike Boulevards



2012 Bikeway Network

- Protected Bikeways
- Bike Lanes
- Shared Lanes
- Bike Boulevards

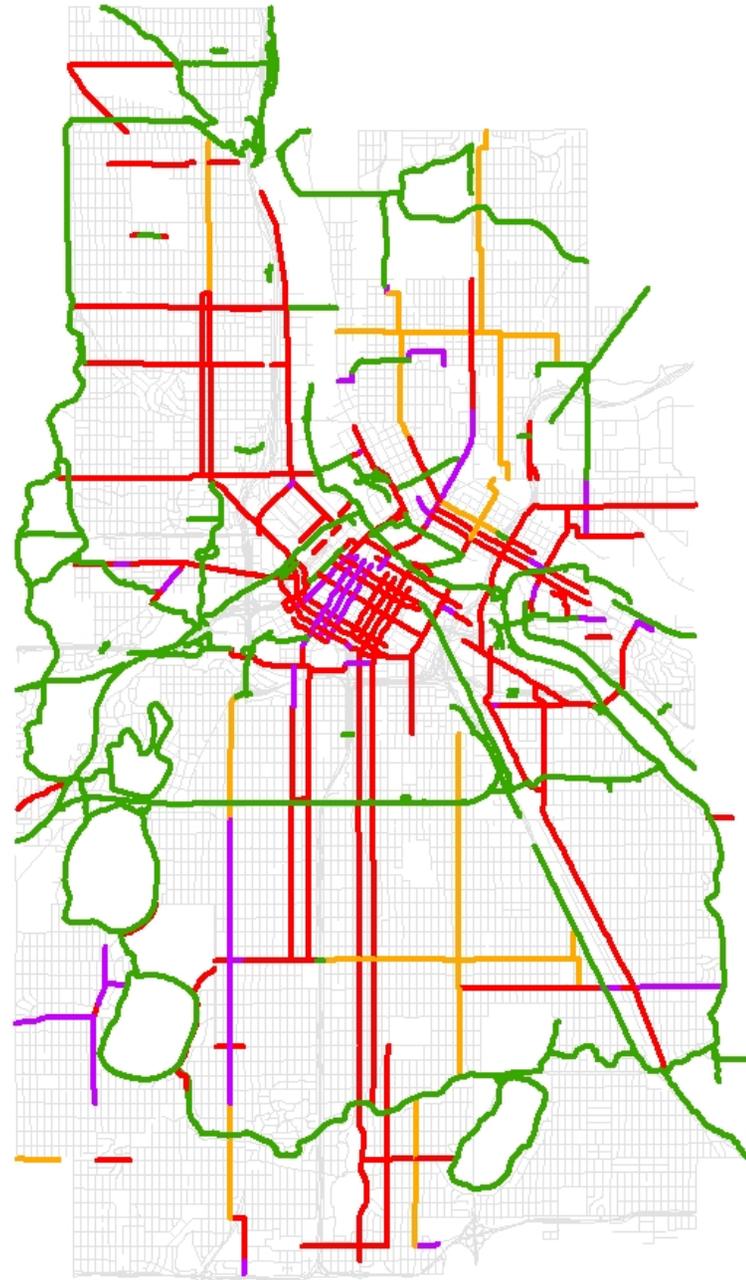


2013 Bikeway Network

Bikeway Mileage

■	Protected Bikeways:	96 miles
■	Bike Lanes:	78 miles
■	Shared Lanes:	14 miles
■	Bike Boulevards:	19 miles

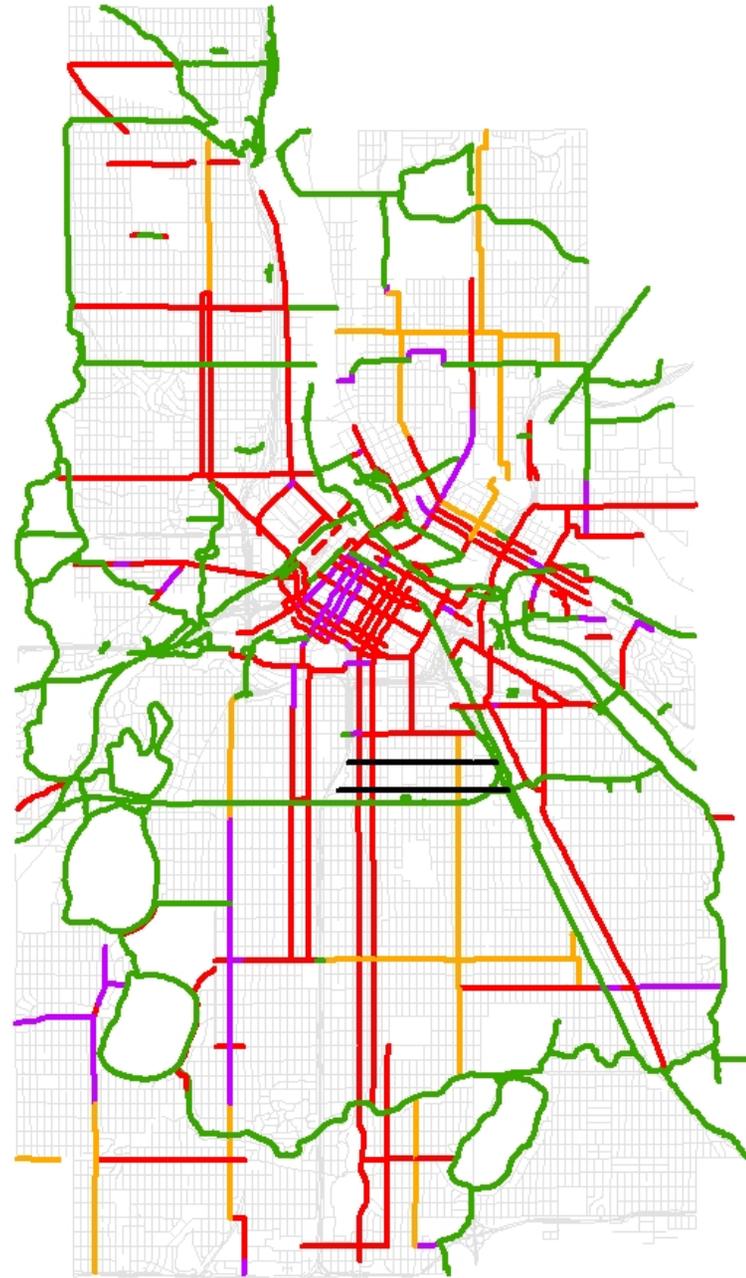
Total: **207 miles**



Existing & Funded Bikeway Network

- Protected Bikeways
- Bike Lanes
- Shared Lanes
- Bike Boulevards
- To Be Determined

Based upon existing bikeways and planned bikeways with a funding commitment.

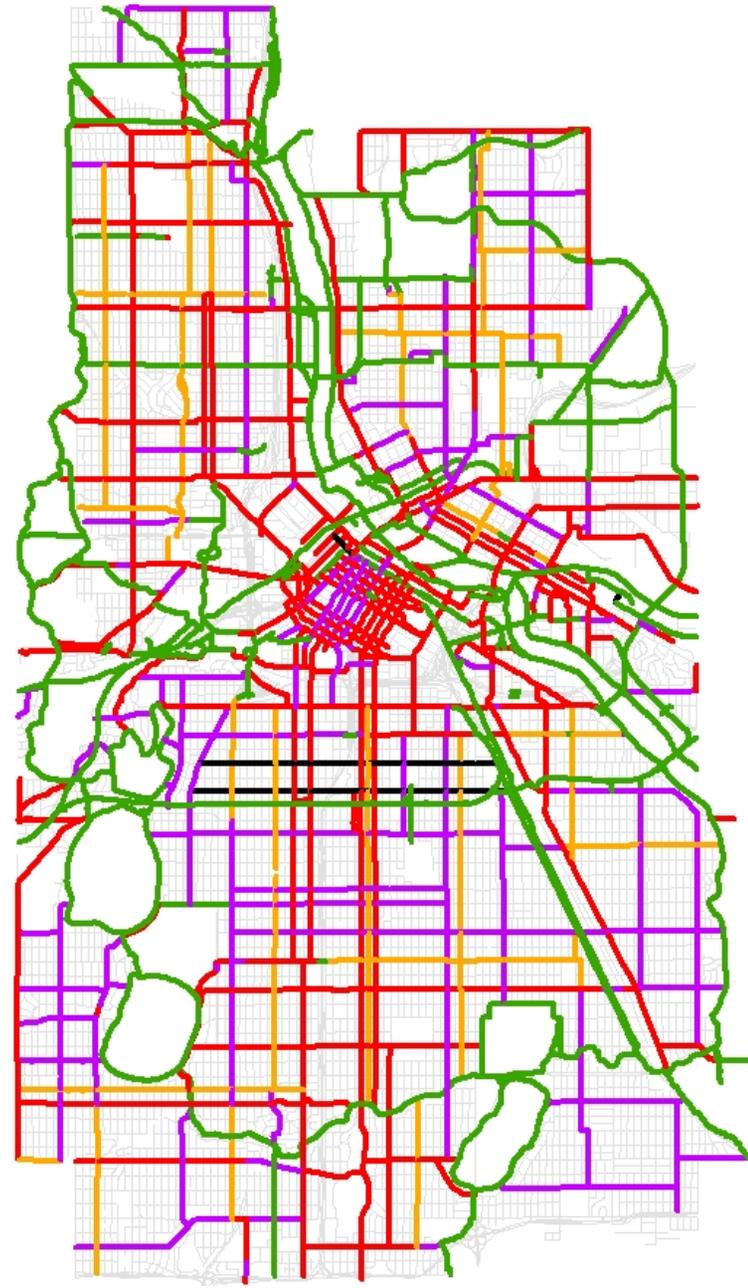


Long-term Bikeway Network

Bikeway Mileage

■ Protected Bikeways:	137 miles
■ Bike Lanes:	134 miles
■ Shared Lanes:	81 miles
■ Bike Boulevards:	44 miles
■ To Be Determined:	6 miles
Total:	402 miles

Based upon existing bikeways, the 2011 Bicycle Master Plan, and other recent planning activities.



Bikeway Development

Bikeway Mileage	1997	2010	2013	Future*
■ Protected Bikeways:	62 miles	90 miles	96 miles	137 miles
■ Bike Lanes:	19 miles	44 miles	78 miles	134 miles
■ Shared Lanes:	1 miles	5 miles	14 miles	81 miles
■ Bike Boulevards:			19 miles	44 miles
■ To Be Determined:				6 miles
Total:	82 miles	139 miles	207 miles	402 miles

*Based upon existing bikeways, the 2011 Bicycle Master Plan, and other recent planning activities.

Why prioritize protected bikeways?

- 2011 bicycle master plan does not address protected bikeways other than trails
- 2013 Climate Action Plan calls for 30 miles of on-street protected bicycle facilities by 2020
- Several protected bikeways under development now
- Increasing demand for protected bikeways in Minneapolis and nationally

Why prioritize protected bikeways?

Biking on a busy street can be stressful for many people – even with a bike lane. In some areas, a busy street is the only option.



4th Avenue South, Minneapolis

Why prioritize protected bikeways?

Protected bikeways can extend the experience of biking on a trail to busy city destinations.



Credit: People for Bikes

Washington, DC

Planning Process

We are near the beginning of the process:

Identify locations where protected bikeways should be evaluated, considering:

- High Bicycle Demand
- High Traffic Conflict
- Lack of Alternative Lower-Stress Routes
- Public Input

Planning Process

May 2014

Identify locations where protected bikeways should be evaluated, considering:

- High Bicycle Demand
- High Traffic Conflict
- Lack of Alternative Lower-Stress Routes
- Public Input

Confirm locations for further evaluation

Evaluate design and implementation feasibility

Draft recommended protected bikeway corridors

- List/map of priority corridors for protected bikeway implementation
- Capital and maintenance costs for each corridor
- Text for Bicycle Master Plan Amendment

Fall 2014

Public review and input

Late 2014

Final draft Bicycle Master Plan amendment for City Council consideration

Coordination
with
Minneapolis
Bicycle
Advisory
Committee
and Hennepin
County

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for County Bike Plan update

Key question:
Where are protected bikeways needed?

Submit Input Online

Where are protected bikeways needed?

Online Survey May 1- 15

www.minneapolismn.gov/bicycles

For More Information

www.minneapolismn.gov/bicycles

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