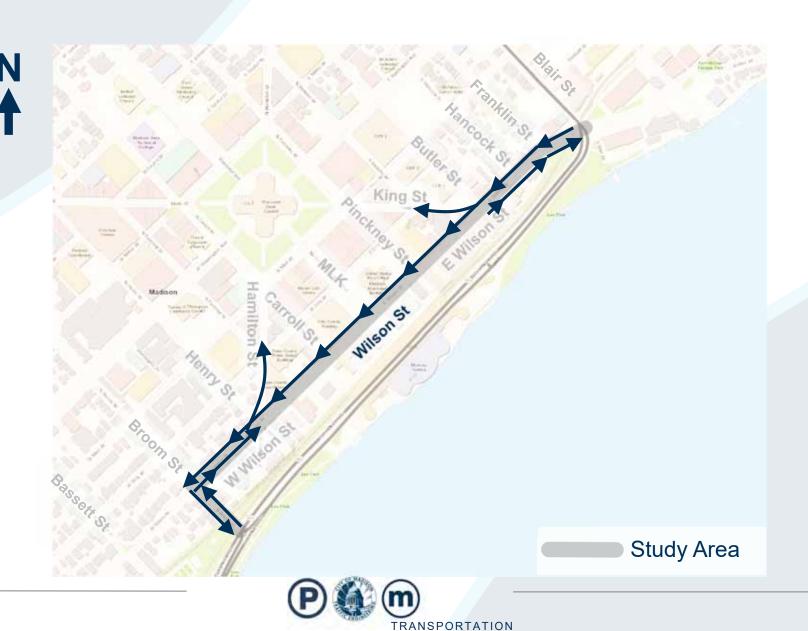
## Wilson Street Corridor Study

**Public Involvement Meeting 3** 

### **Outline of evening**

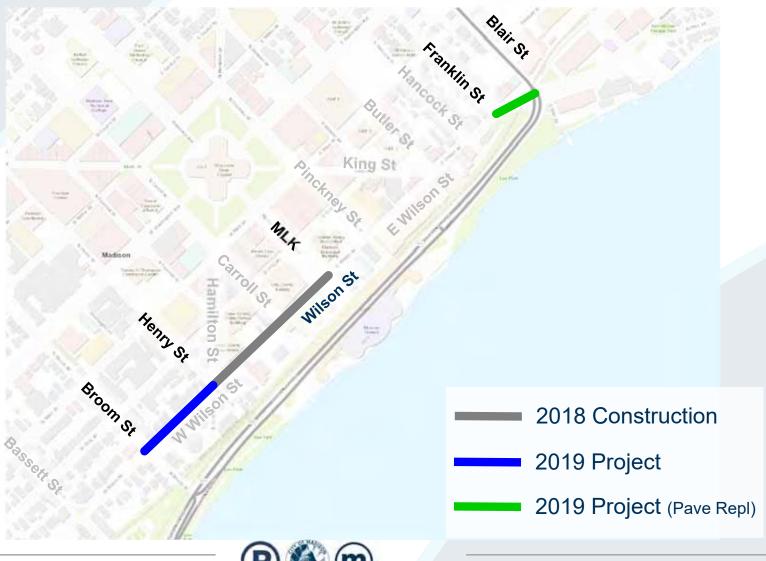
- 1. Review of Goals and Objectives
- 2. Discussion of bike network options
- 3. Discussion of Alternatives
- 4. Questions comments
- 5. Recess
- 6. Question comments
- 80+ slides, please hold questions to the end

## **Study Limit Location**

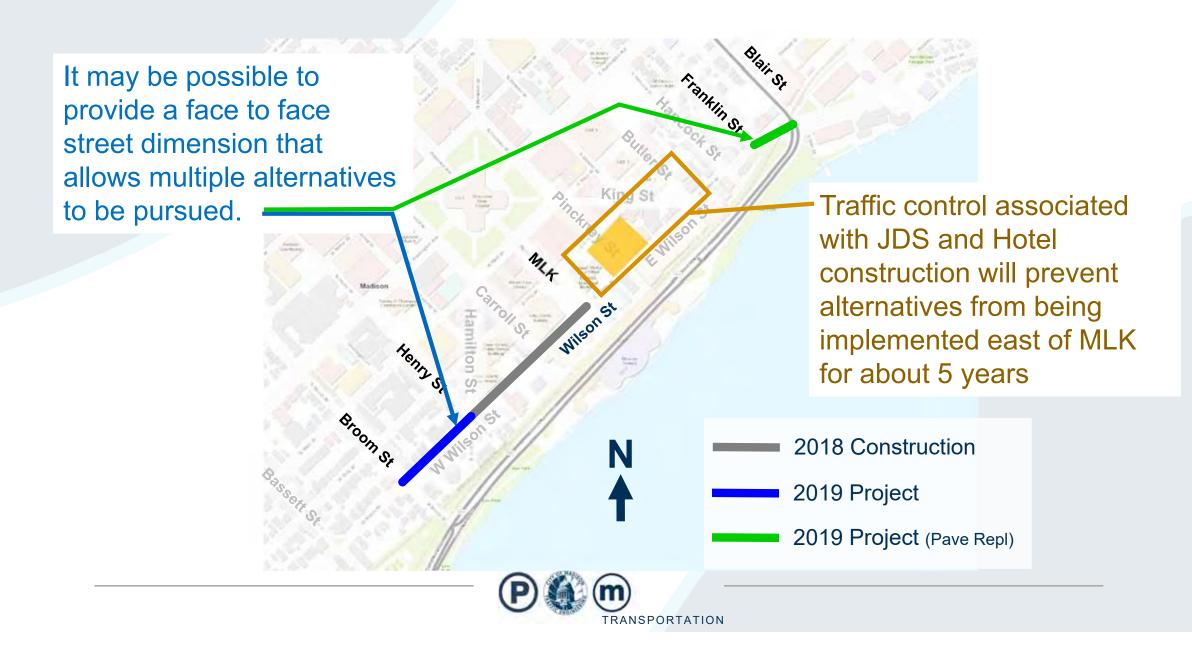


Location

N †



## **Staging**

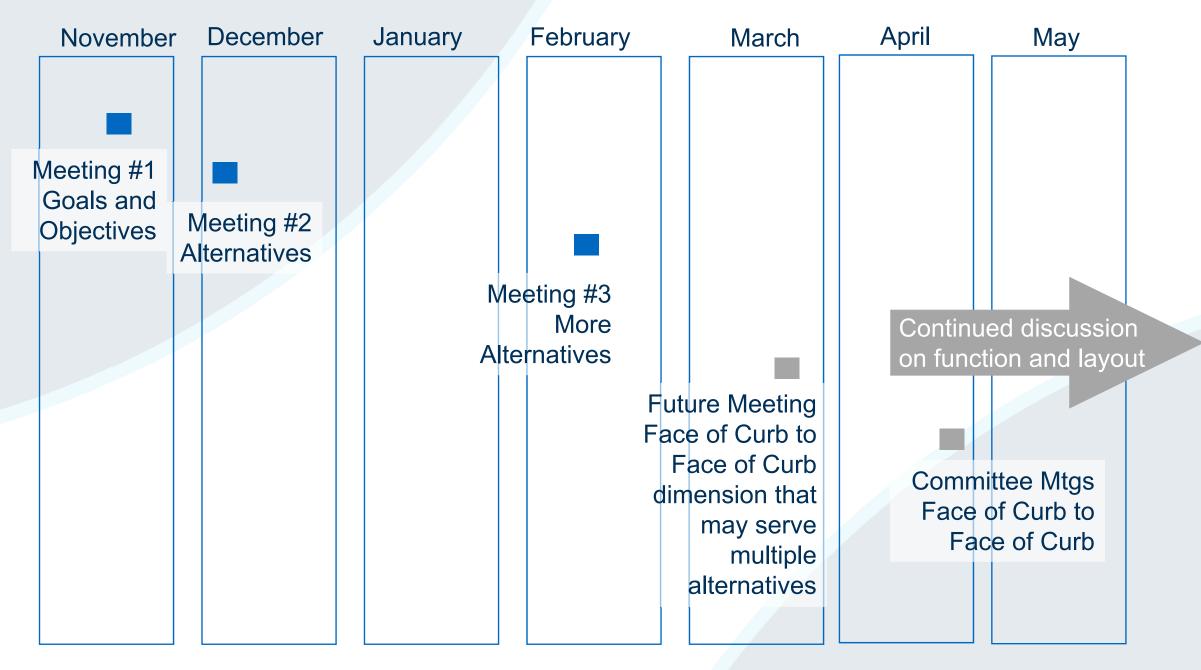


## **Staging**



## This meeting is to present information

and to continue a discussion



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### **Alternatives Analysis**

**Primarily Concerned How to Arrange Space From Face to Face** 

Generally 40 to 43 feet west of King Street





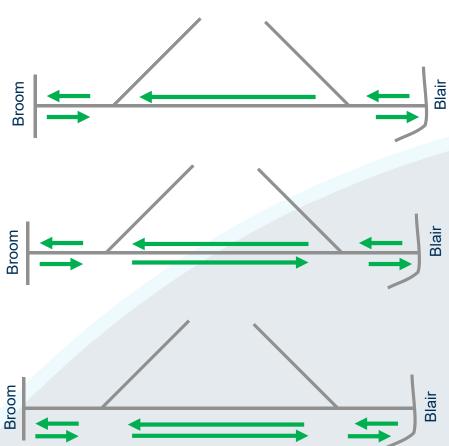


- 1. Provide Safety for All Modes
- 2. Improve Bike Connection to Downtown
- 3. Provide Pleasant Living Area
- 4. Pleasing Entrance to Downtown
- 5. Satisfy Parking and Loading Needs
- 6. Preserve Tree Canopy and Terrace
- 7. Efficient/Ordered Motor Vehicle Operations
- 8. Safe Pedestrian Crossings
- 9. Preserve Infrastructure Investment



# How to address <u>all</u> Goals and Objectives involves different arrangements of parking and bike facilities

- Conventional Bike Lanes West and East
- Conventional Bike Lanes West and East, Contra Flow Bike Lane in Center
- 3. Cycle Path, or Separated Two-way Bike Path, Full Corridor



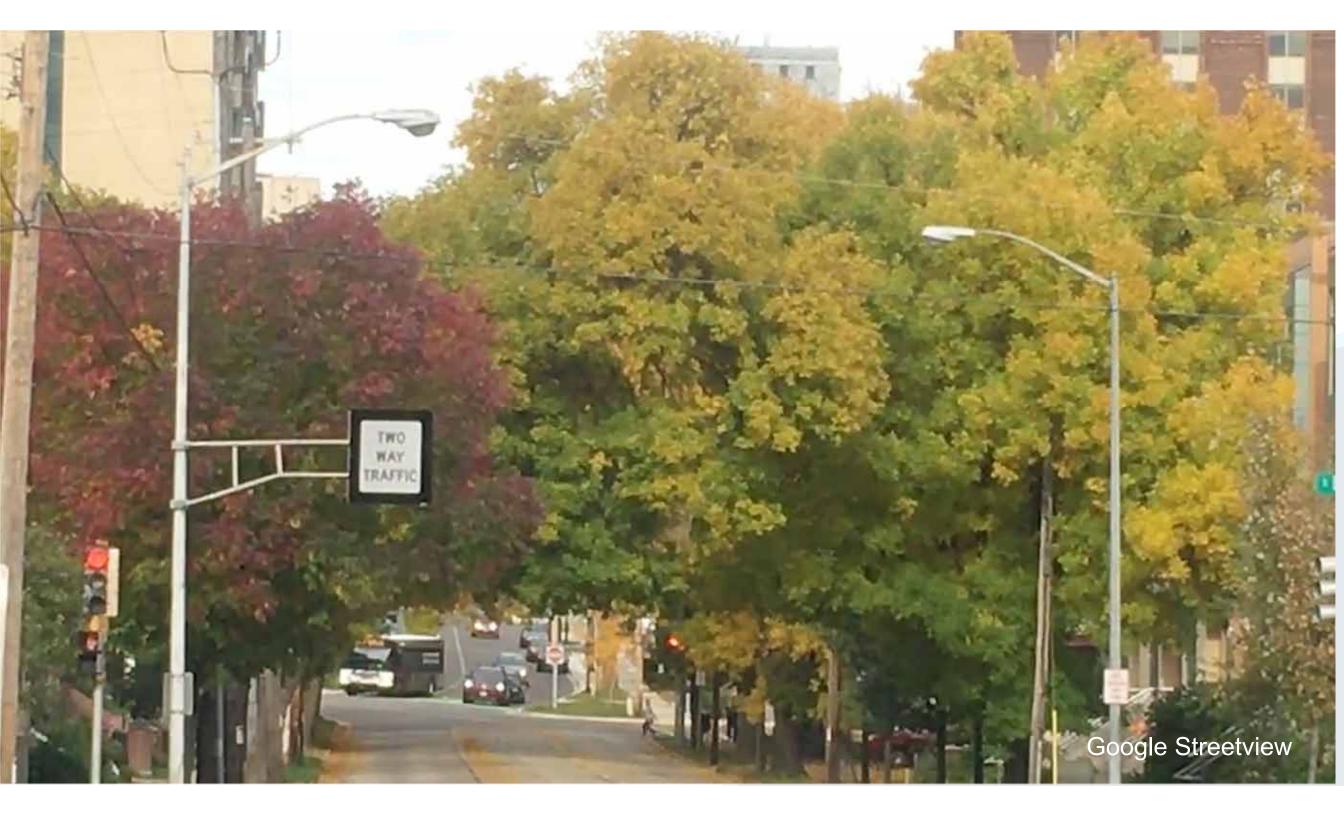




	1 Bike Lns	2 Contra	3 Separated
Provide Safety			
Increase Bike Connectivity			
Pleasant Living Environment			
Pleasing Entrance			
Satisfy Parking and Loading			
Preserve Tree Canopy			
Ped Crossings			
Preserve Infrastructure Investment			

	1 Bike Lns	2 Contra	3 Separated
Provide Safety			
Increase Bike Connectivity			
Pleasant Living Environment			
Pleasing Entrance			
Satisfy Parking and Loading			
Preserve Tree Canopy			
Ped Crossings			
Preserve Infrastructure Investment			
Motor Vehicle Operations			





	1 Bike Lns	2 Contra	3 Separated
Provide Safety			
Increase Bike Connectivity			
Pleasant Living Environment	Engineering will develop an aesthetically pleasing street sect		p an
Pleasing Entrance			
Satisfy Parking and Loading			
Preserve Tree Canopy			
Ped Crossings			
Preserve Infrastructure Investment			
Motor Vehicle Operations			

#### Crashes

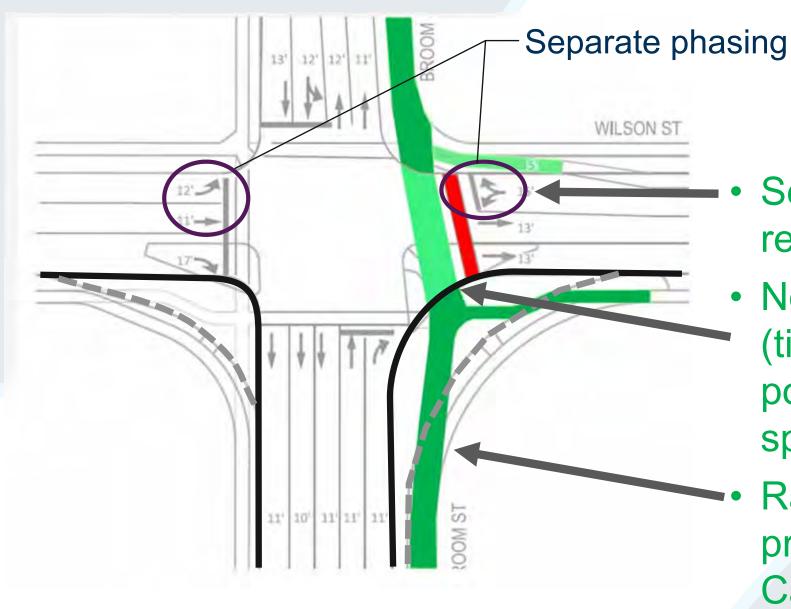


 Separate project will address crashes at Blair St intersection

- Signal phasing adjustments will address a common crash type
- Revisions to the NB to EB right turn will reduce speeds

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 Separate phasing will reduce crashes

Northbound right turn

 (tightened radii) without pork chop island slows speeds

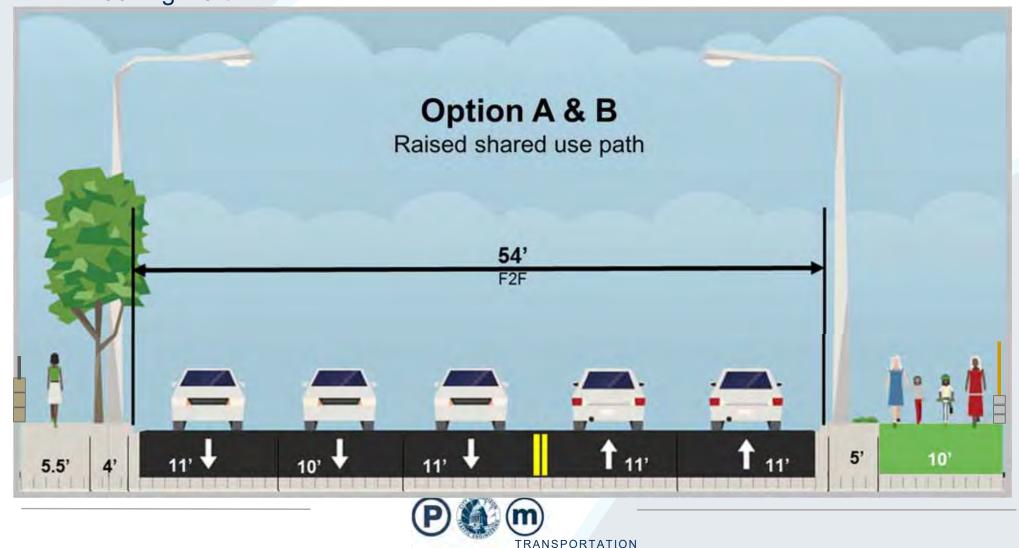
Raised shared use path provides connection to Capital City Trail.

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## All Alternatives are considering a raised cycle path at Broom Street

**Looking North** 





	1 Bike Lns	2 Contra	3 Separated
Provide Safety			
Increase Bike Connectivity			
Pleasant Living Environment			
Pleasing Entrance			
Satisfy Parking and Loading			
Preserve Tree Canopy			
Ped Crossings			
Preserve Infrastructure Investment			
Motor Vehicle Operations			

#### Pedestrians - MLK Jr Blvd & Wilson St

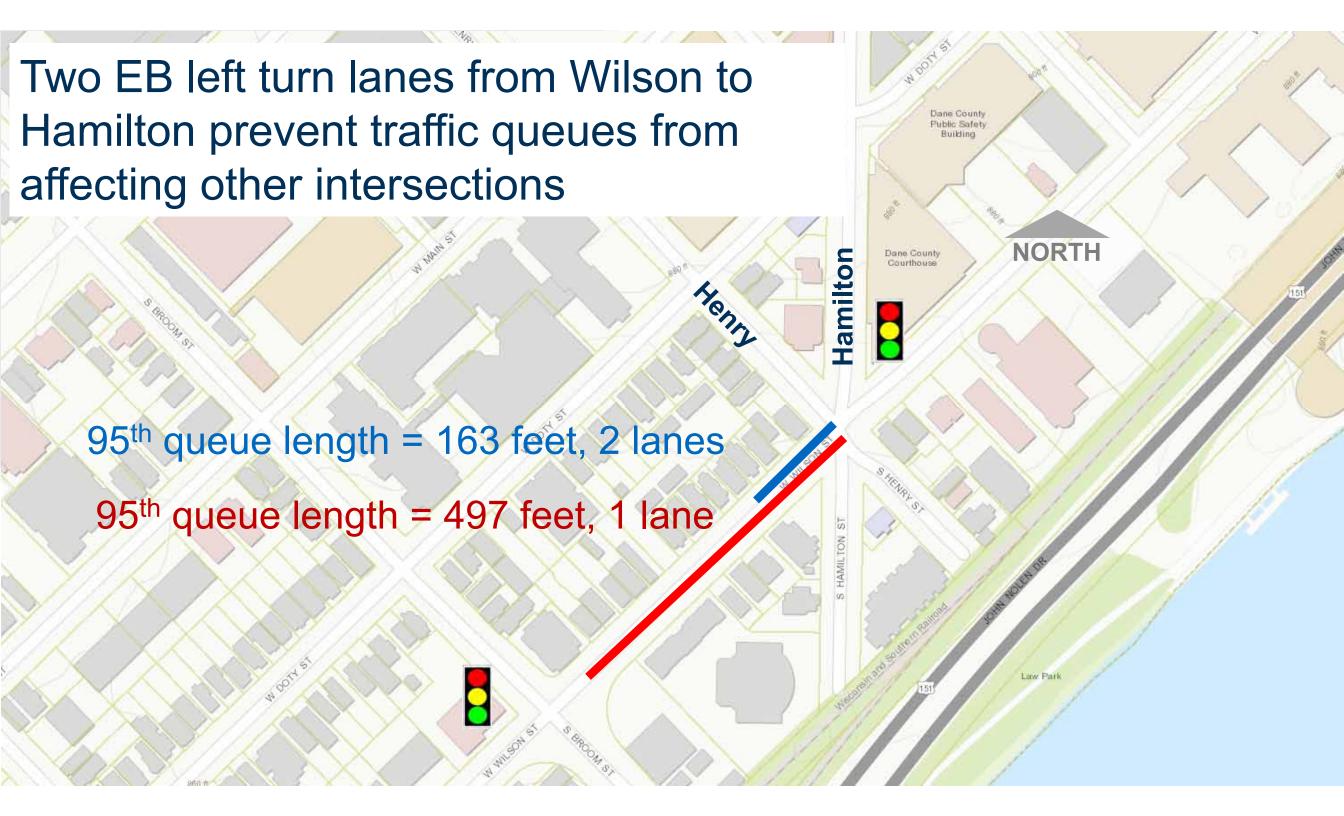


Two lanes accommodate both pedestrian crossings and vehicles well



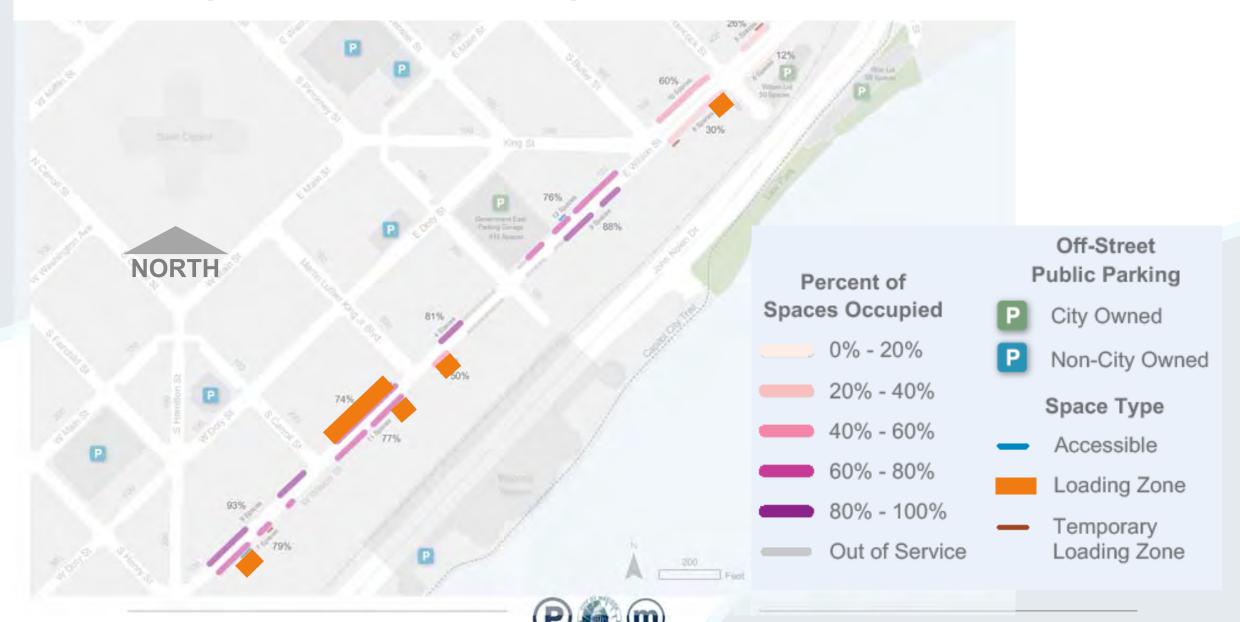


	1 Bike Lns	2 Contra	3 Separated
Provide Safety			
Increase Bike Connectivity			
Pleasant Living Environment			
Pleasing Entrance			
Satisfy Parking and Loading			
Preserve Tree Canopy			
Ped Crossings			
Preserve Infrastructure Investment			
Motor Vehicle Operations			



	1 Bike Lns	2 Contra	3 Separated
Provide Safety			
Increase Bike Connectivity			
Pleasant Living Environment			
Pleasing Entrance			
Satisfy Parking and Loading			
Preserve Tree Canopy			
Ped Crossings			
Preserve Infrastructure Investment			
Motor Vehicle Operations			

## **Parking and Loading**











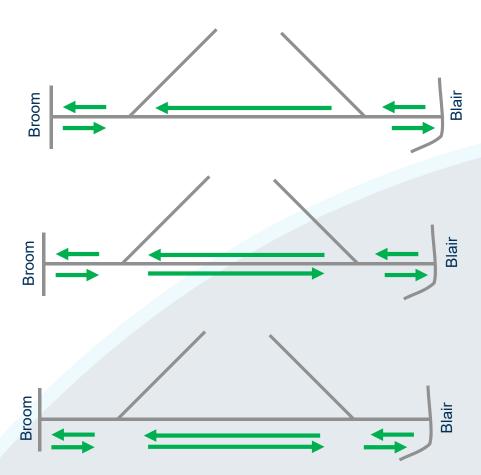




	1 Bike Lns	2 Contra	3 Separated
Provide Safety			
Increase Bike Connectivity			
Pleasant Living Environment		Inte	r related
Pleasing Entrance		Intel related	
Satisfy Parking and Loading			
Preserve Tree Canopy			
Ped Crossings			
Preserve Infrastructure Investment			
Motor Vehicle Operations			

## How to address bikes and parking leads to three main alternatives

- Conventional Bike Lanes West and East
- Conventional Bike Lanes West and East, Contra Flow Bike Lane in Center
- 3. Cycle Path, or Separated Two-way Bike Path, Full Corridor







#### Isthmus is projected to receive 10,000 more jobs by 2050

#### **2010 Mode of Transportation**

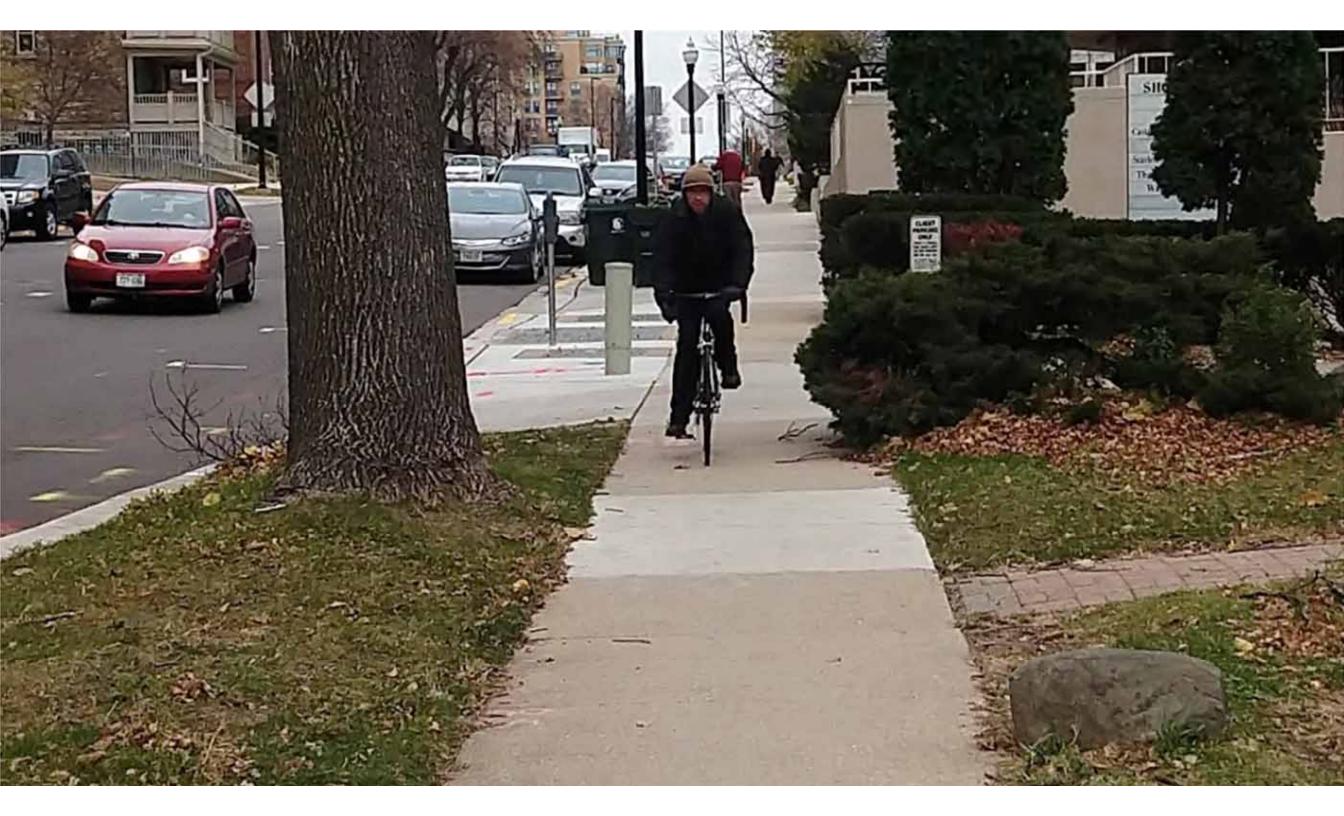
SOV MOV Bike	61% 7% 5%	10%
Walk	10%	
Telecom	5%	20%
Transit	10%	20 /0

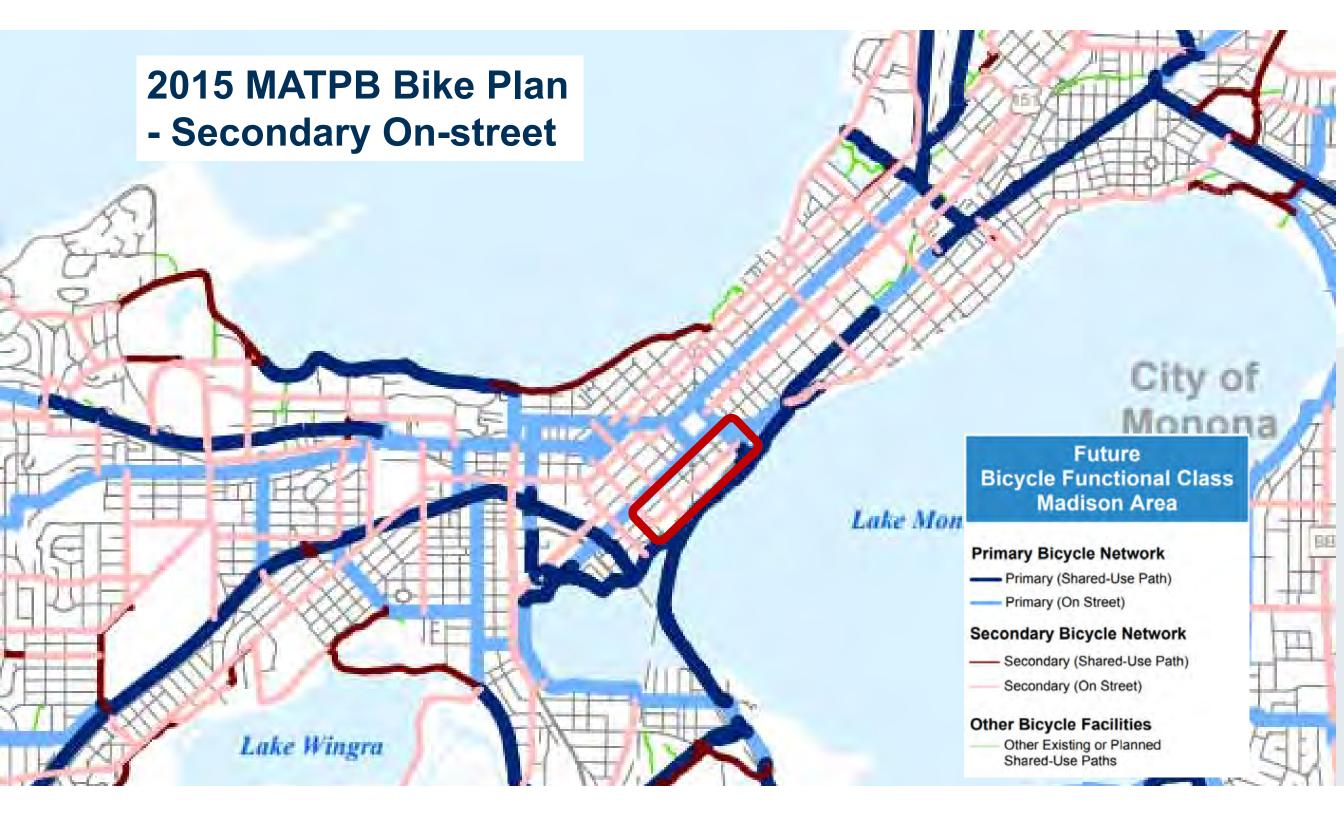
DEPARTMENT OF

### **Bike Classification of Wilson**

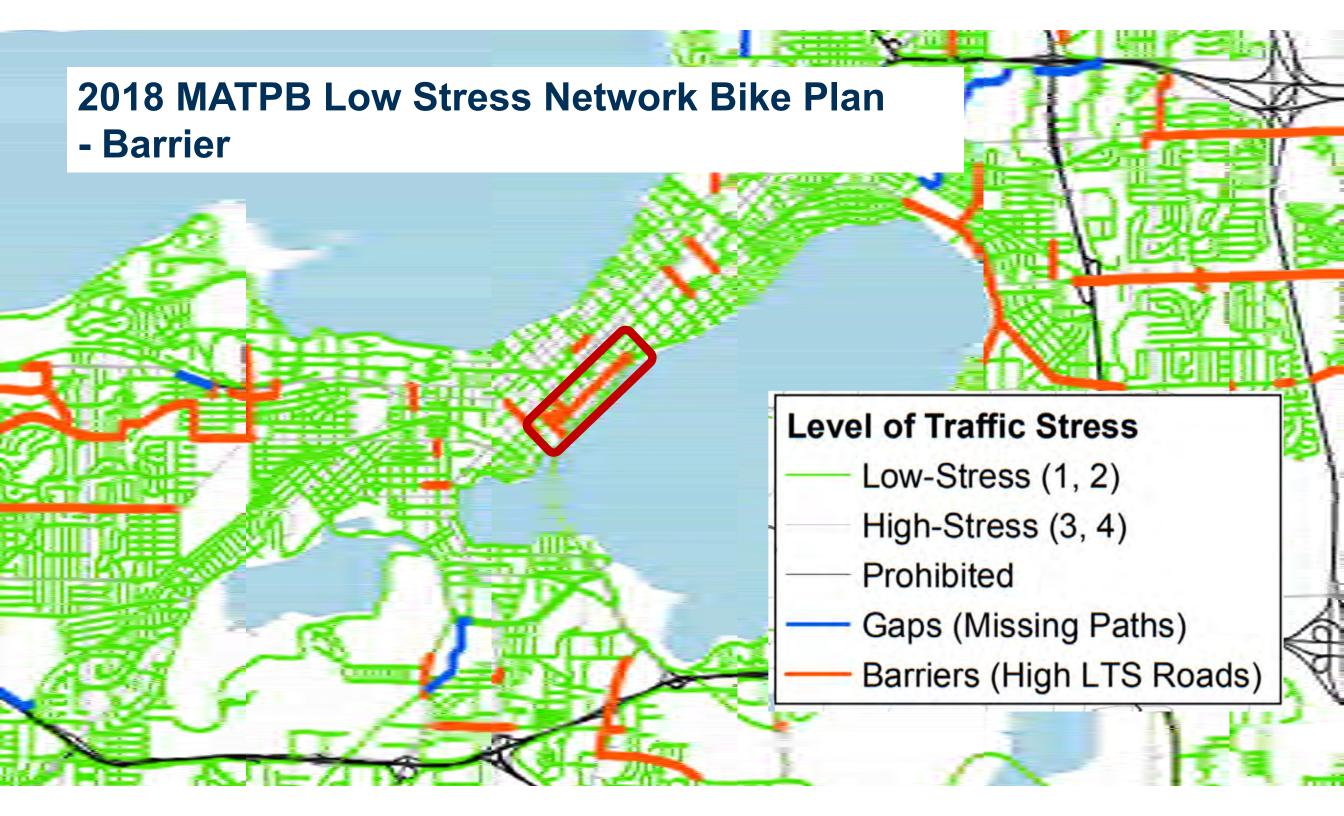
Madison adopted MATPB's bike plan in 2015

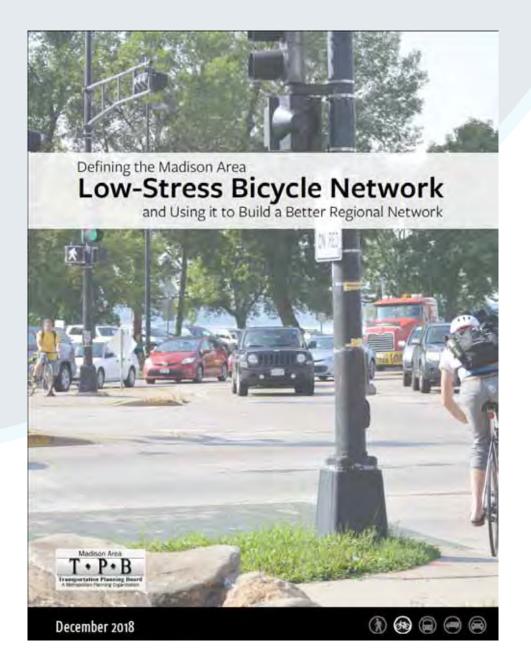
Since 2015 some communities are moving towards a low stress network















**Contextual Guidance for High-Comfort Bicycle Facilities** 





December 2017

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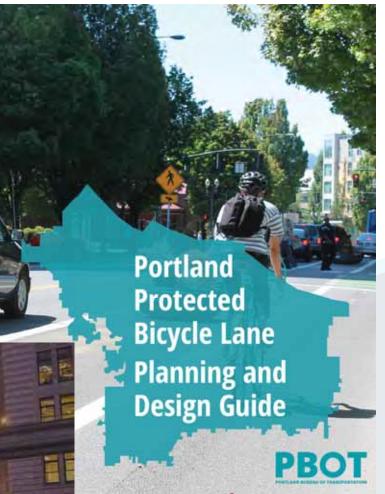










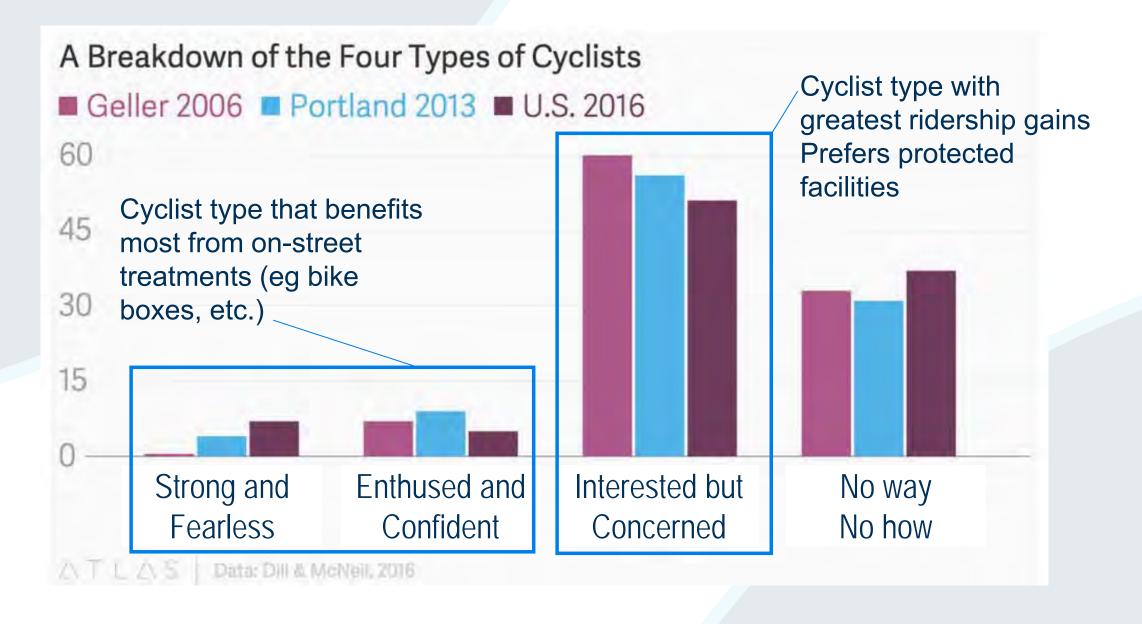














### **All Ages and Abilities**

Users of this guidance should recognize that, in some cases, a bicycle facility may fall short of the All Ages & Abilities criteria but still substantively reduce traffic stress.

#### Contextual Guidance for Selecting All Ages & Abilities Bikeways

Roadway Context				All Ages & Abilities
Target Motor Vehicle Speed	Target Motor Vehicle Volume (ADT)	Motor Vehicle Lanes	Key Operational Considerations	Bicycle Facility
Any		Any	Any of the following: high curbside activity, frequent buses, motor vehicle congestion, or turning conflicts <sup>‡</sup>	Protected Bicycle Lane
< 10 mph	Less relevant	No centerline, or single lane one-way	Pedestrians share the roadway	Shared Street
≤ 20 mph	≤ 1,000 - 2,000		< 50 motor vehicles per hour in the peak direction at peak hour	Bicycle Boulevard
≤ 25 mph	≤ 500 - 1,500			
	≤ 1,500 − 3,000	- Single lane each direction, or single lane one-way -	Low curbside activity, or low congestion pressure	Conventional or Buffered Bicycle Lane, or Protected Bicycle Lane
	≤ 3,000 − 6,000			Buffered or Protected Bicycle Lane
	Greater than 6,000			Protected Bicycle Lane
	Any	Multiple lanes per direction		
Greater than 26 mph <sup>†</sup>		Single lane each direction	The state of the s	Protected Bicycle Lane, or Reduce Speed
	Prote	M It me in s pe direction	Low curbside activity or low	Protected Bicycle Lane, or Reduce to Single Lane & Reduce Speed
	Greater than 6,000	Any	Any	Protected Bicycle Lane
High-speed limited access roadways, natural corridors, or geographic edge conditions with limited conflicts		Any	High pedestrian volume	Bike Path with Separate Walkway or Protected Bicycle Lane
			Low pedestrian volume	Shared-Use Path or Protected Bicycle Lane

DEPAF



# **Protected Through Route Treatments**

**Separated Bike Facilities** (cycle track)



Separated Bike Facilities (raised cycle track)

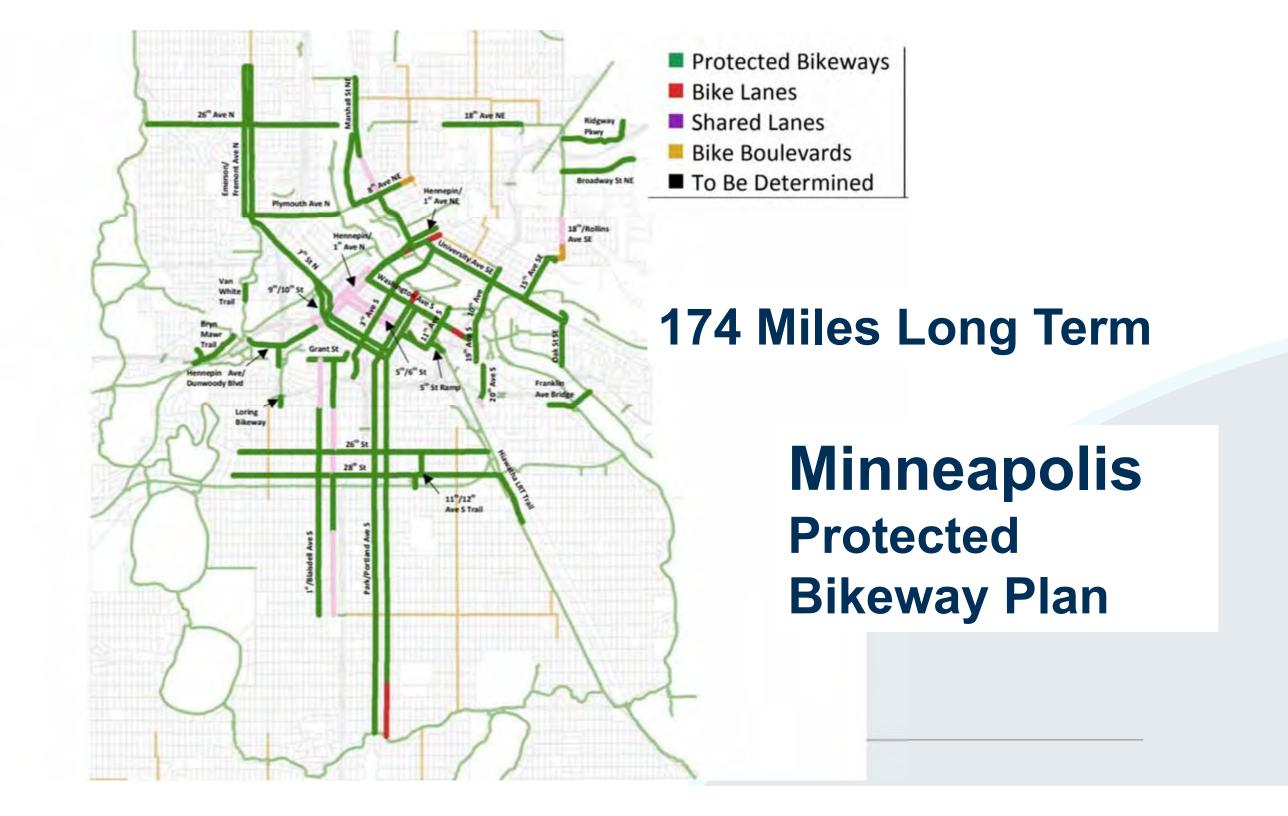


Separated Bike Facilities (two-way cycle track)

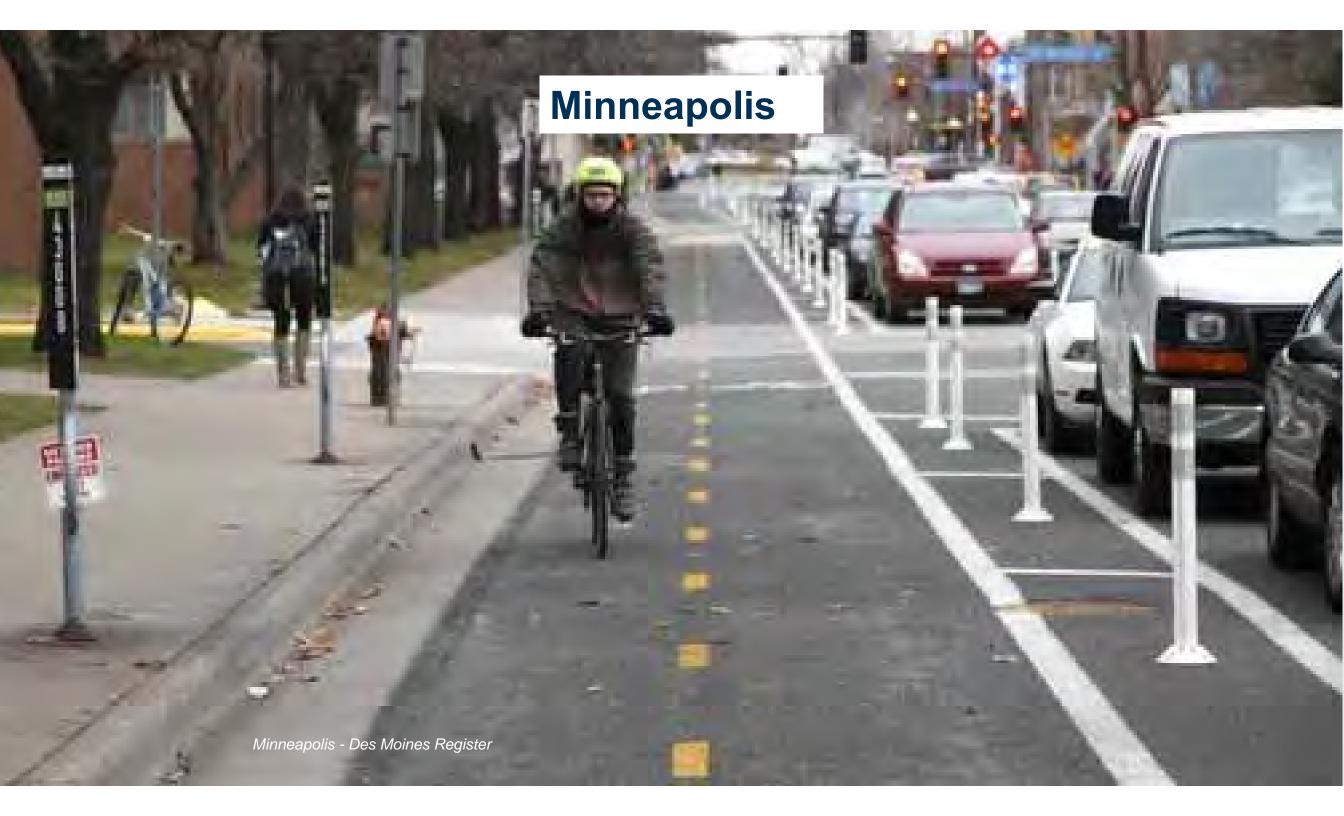


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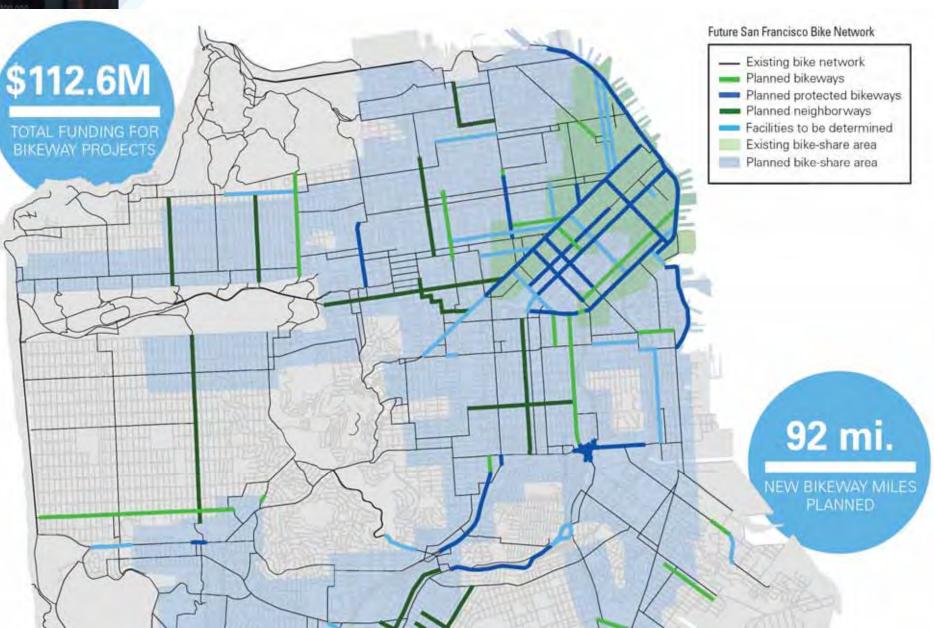




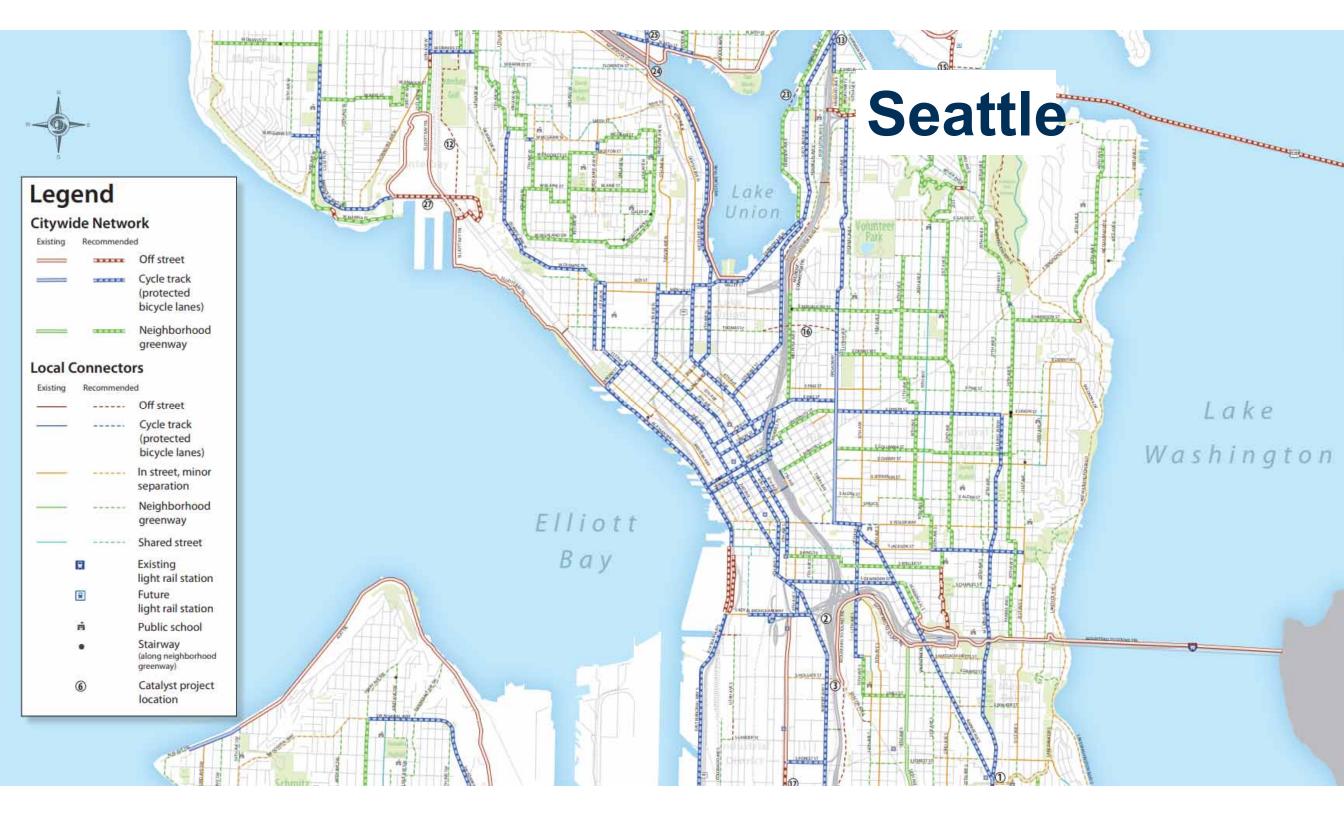




## San Francisco



92 Miles





#### PROTECTED BIKE LANES Buffer Protected Bike O ..... · · O Barrier Protected Bike In 2011, CDOT initiated the Lanes: 18 Miles Lanes: 12 Miles installation of barrier and buffer protected bike lanes in Chicago. By 2015 Chicago will have installed over 100 Marked Shared O. MILES Lanes: 40 Miles of these bike lanes. · O Bike Lanes: 133 Miles

#### **BIKEWAYS INSTALLED IN CHICAGO**

# **200+ MILES**

of on-street bikeways have been installed on Chicago's streets over the past twenty years.

## Chicago

NOTE: One mile of bike lane refers to one mile of centerline lane

### PROTECTED BICYCLE NETWORK PROJECTS:

## **Detroit**

#### **COMPLETED:**



**Cass Avenue** 



**Michigan Avenue** 

#### **IN PROGRESS:**



**East Jefferson Avenue** 

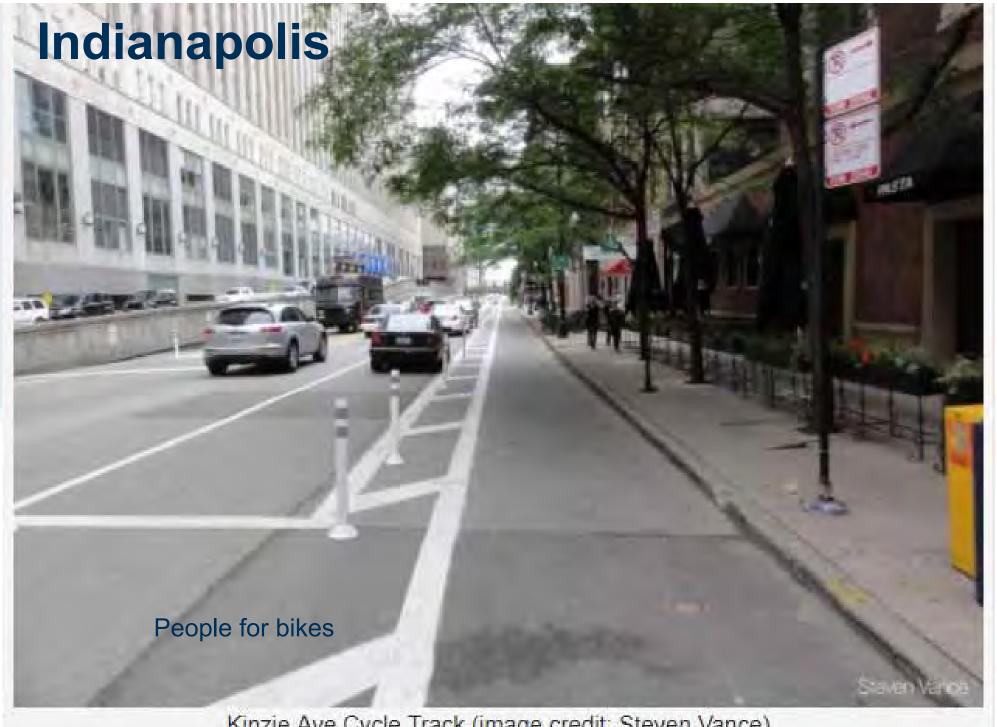


**Grand River Avenue** 





PORTATION



Kinzie Ave Cycle Track (image credit: Steven Vance)







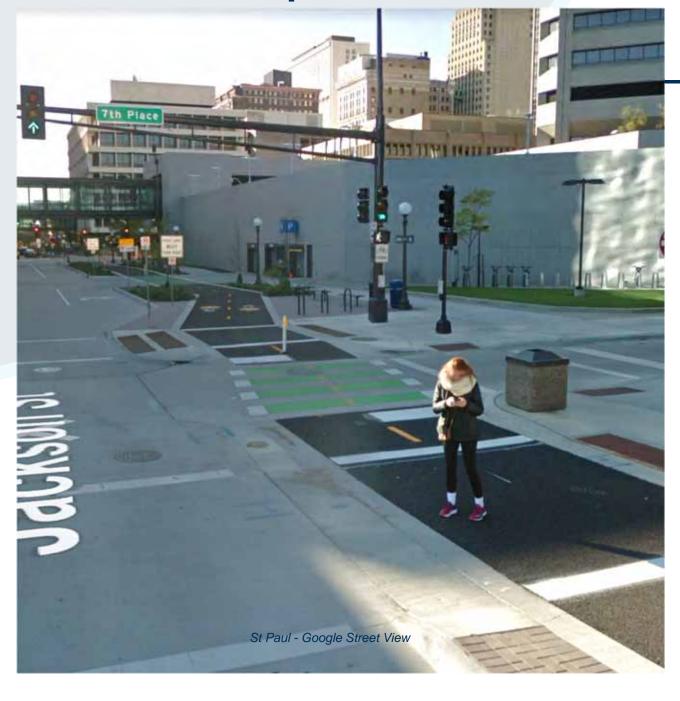
People for bikes

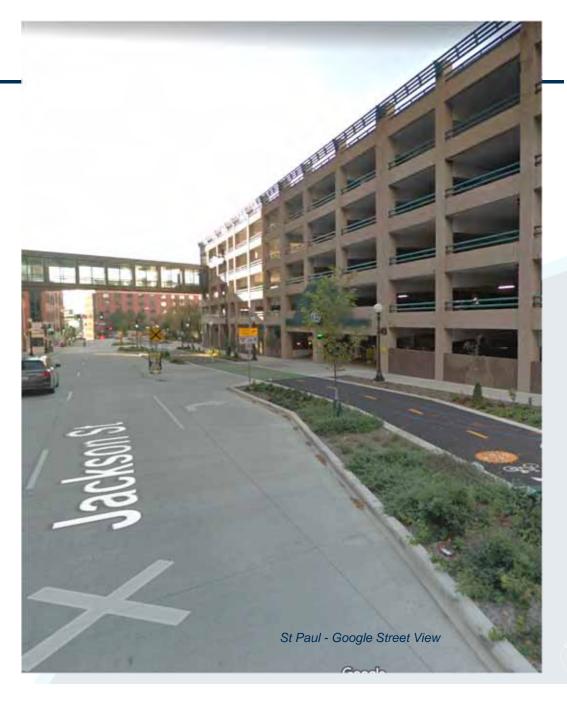
# **Nationally**



### Protected paths can be in downtowns

### St Paul





**Minneapolis Madison** 26" Ave N 18" Ave NE Lake Mendota Van White Trail Lake Monona 3.15 miles 3.15 miles Lake Wingra Comparison



# Monona Terrace bicycle elevator provides one low stress entrance to downtown

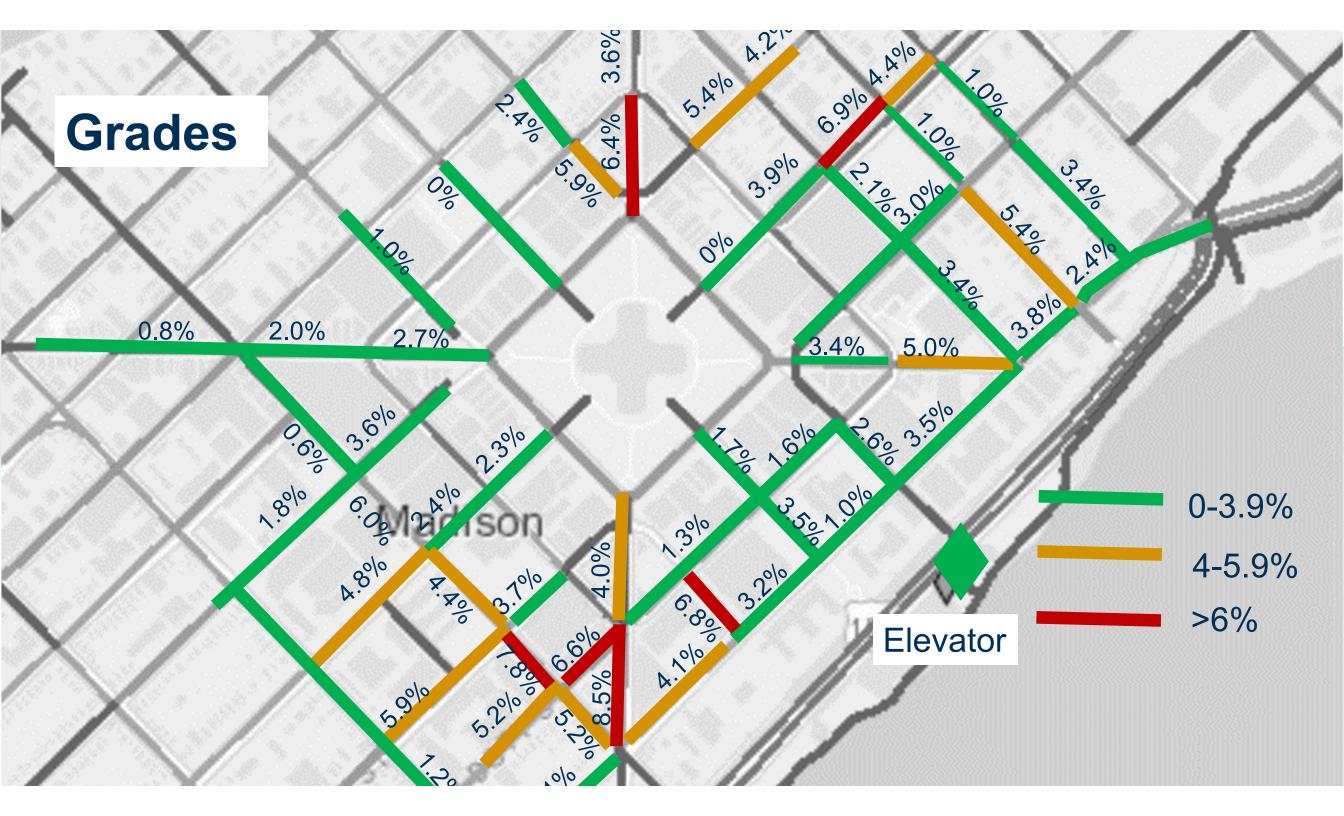




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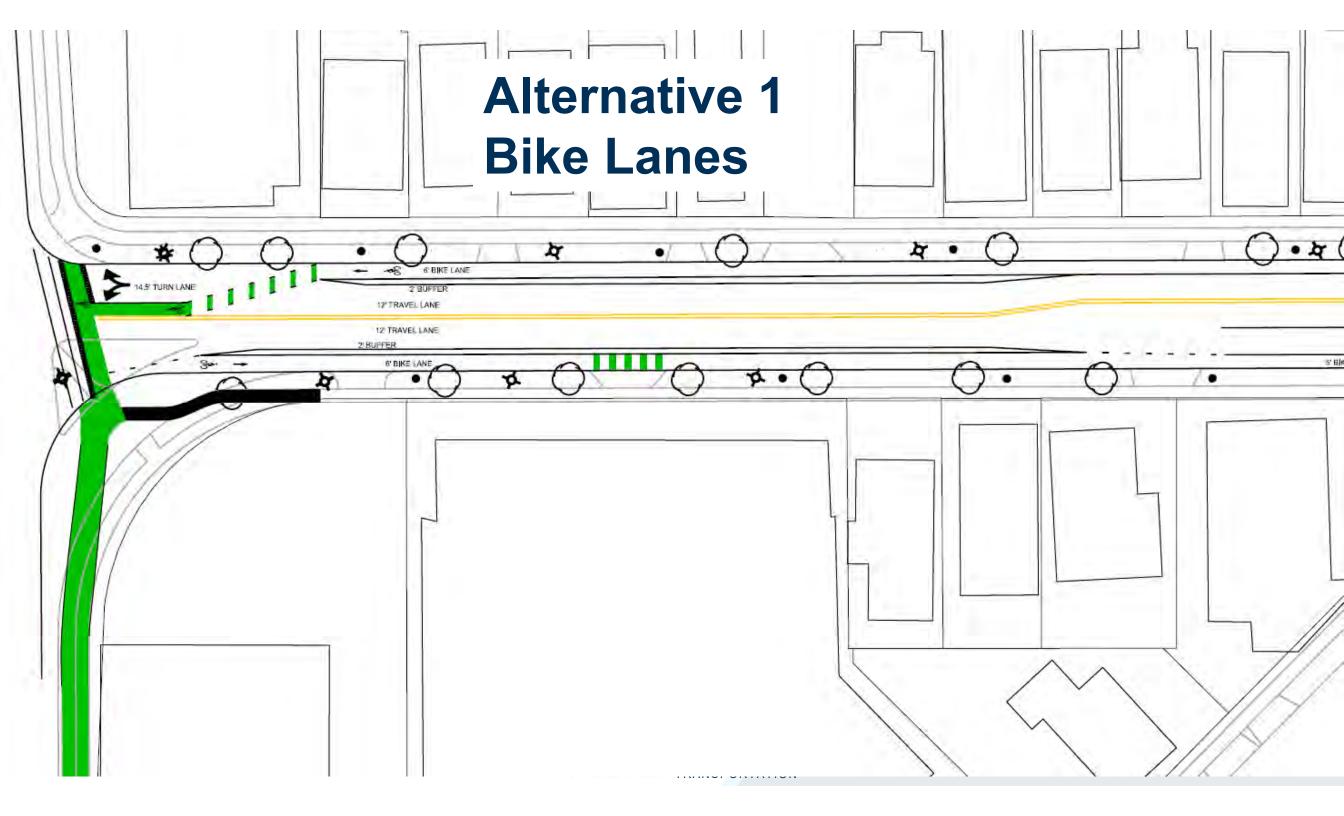


# **Alternative 1**

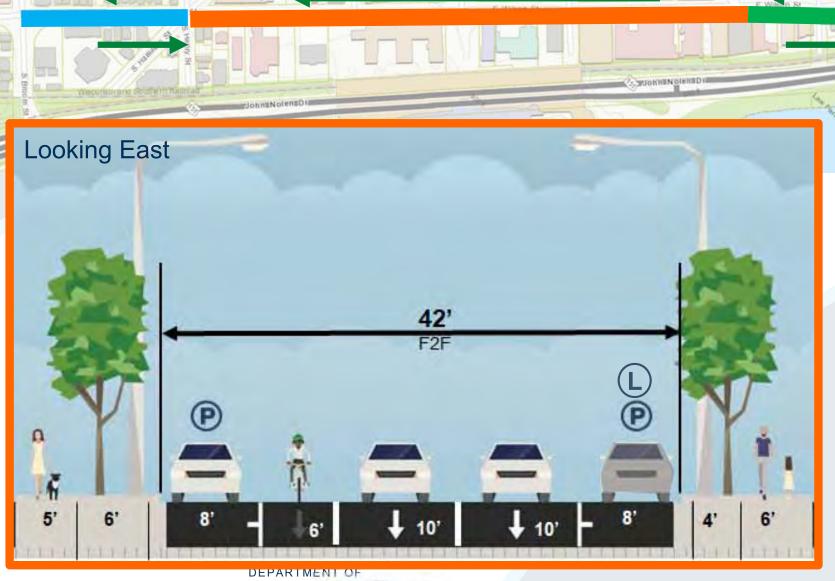
**Bike Lanes** 

# **Alternative 1 Bike Lanes** Looking East 40' F2F Buffer 11'

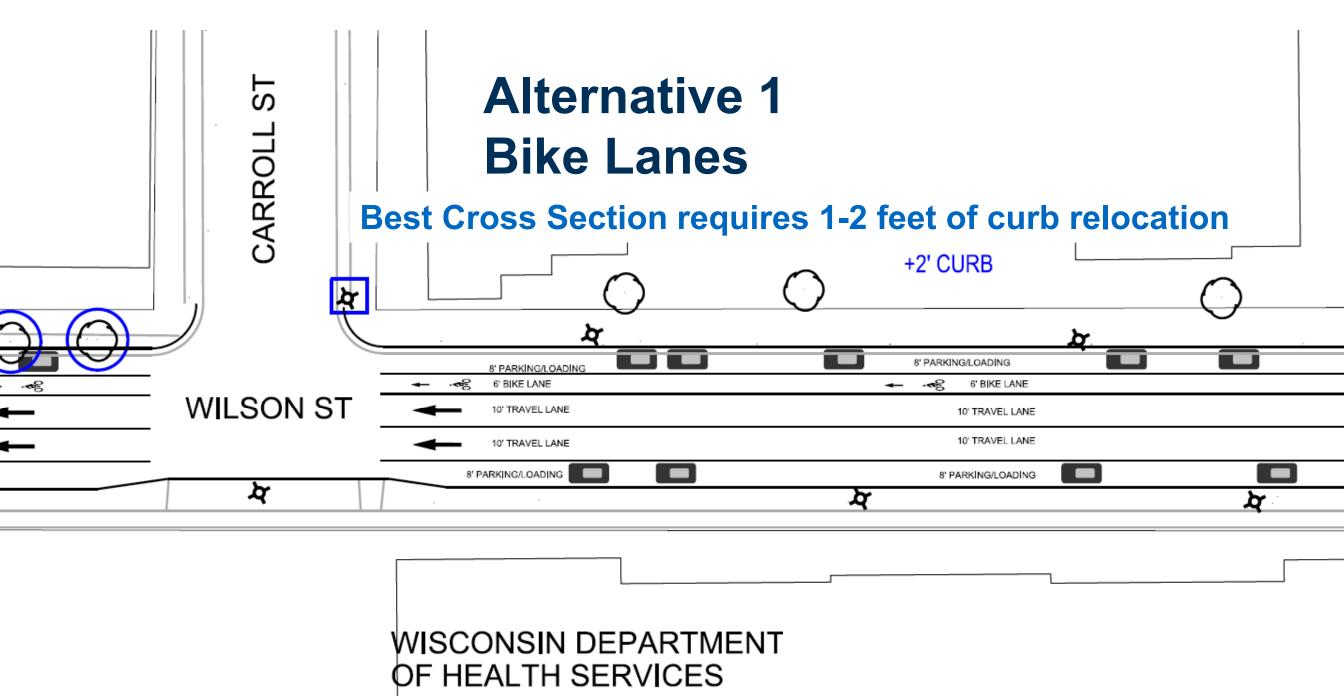




# **Alternative 1 Bike Lanes**







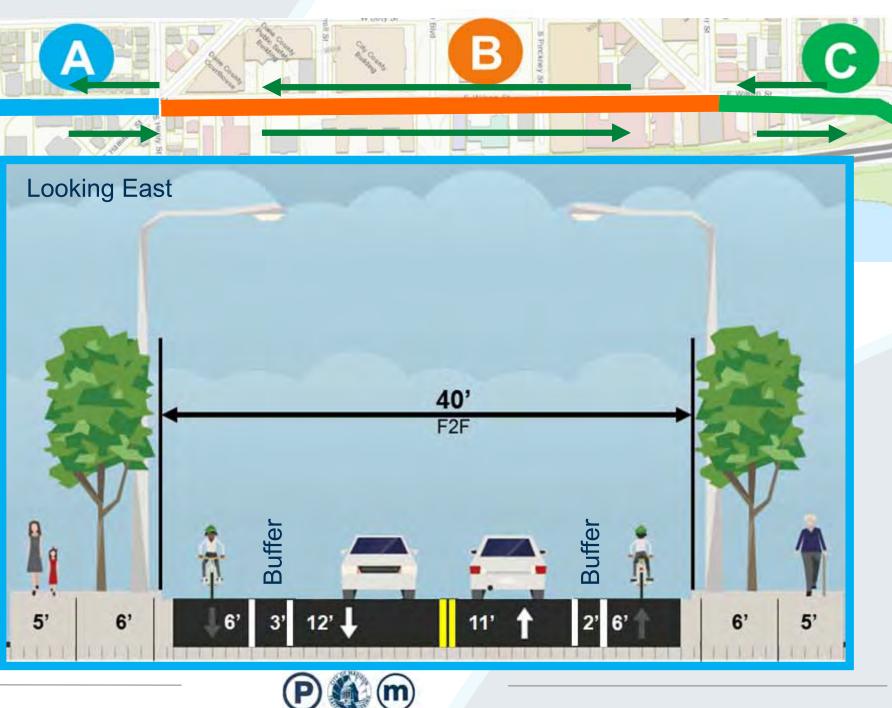
# **Alternative 2**

**Contra Flow Bike Lane** 

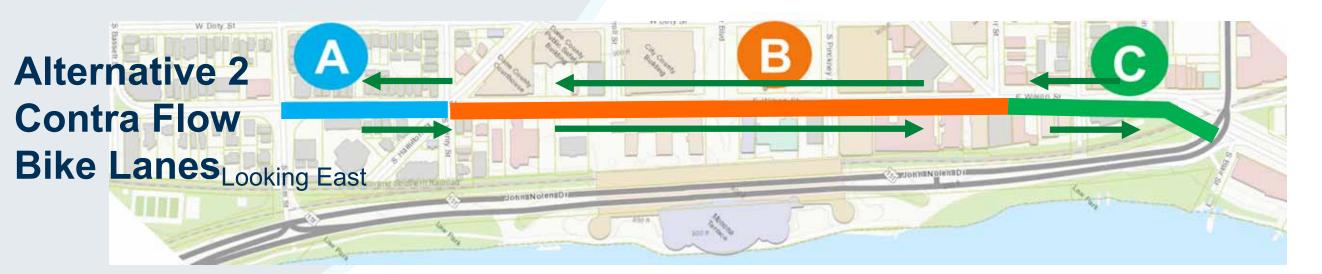
### **Alternative 2 Contra Flow Bike Lanes**

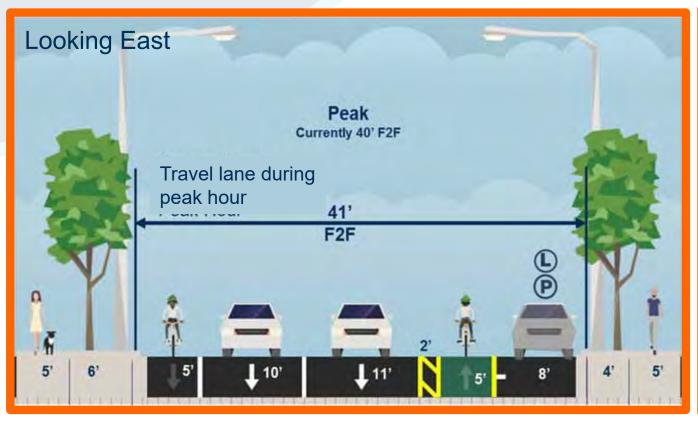
Same as Alternative 1

Buffer









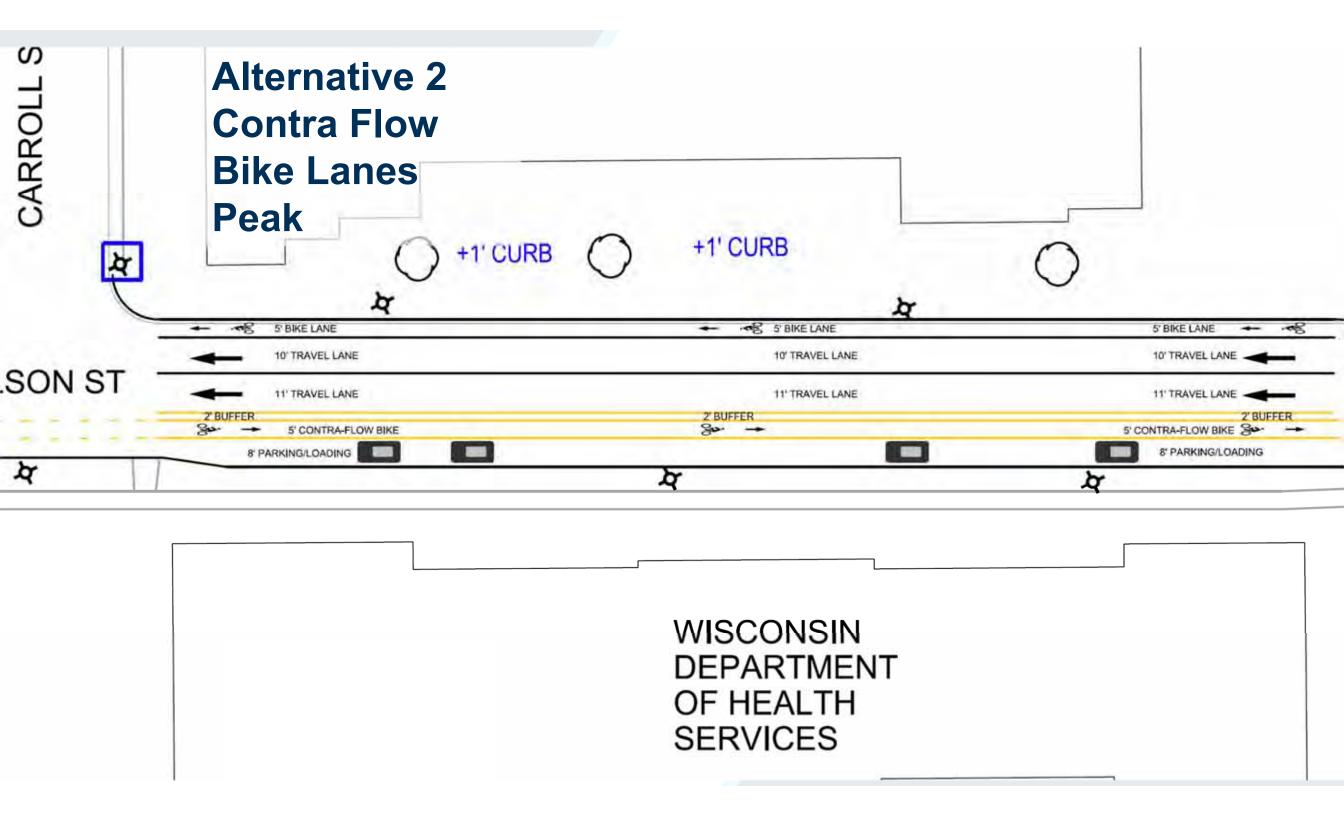


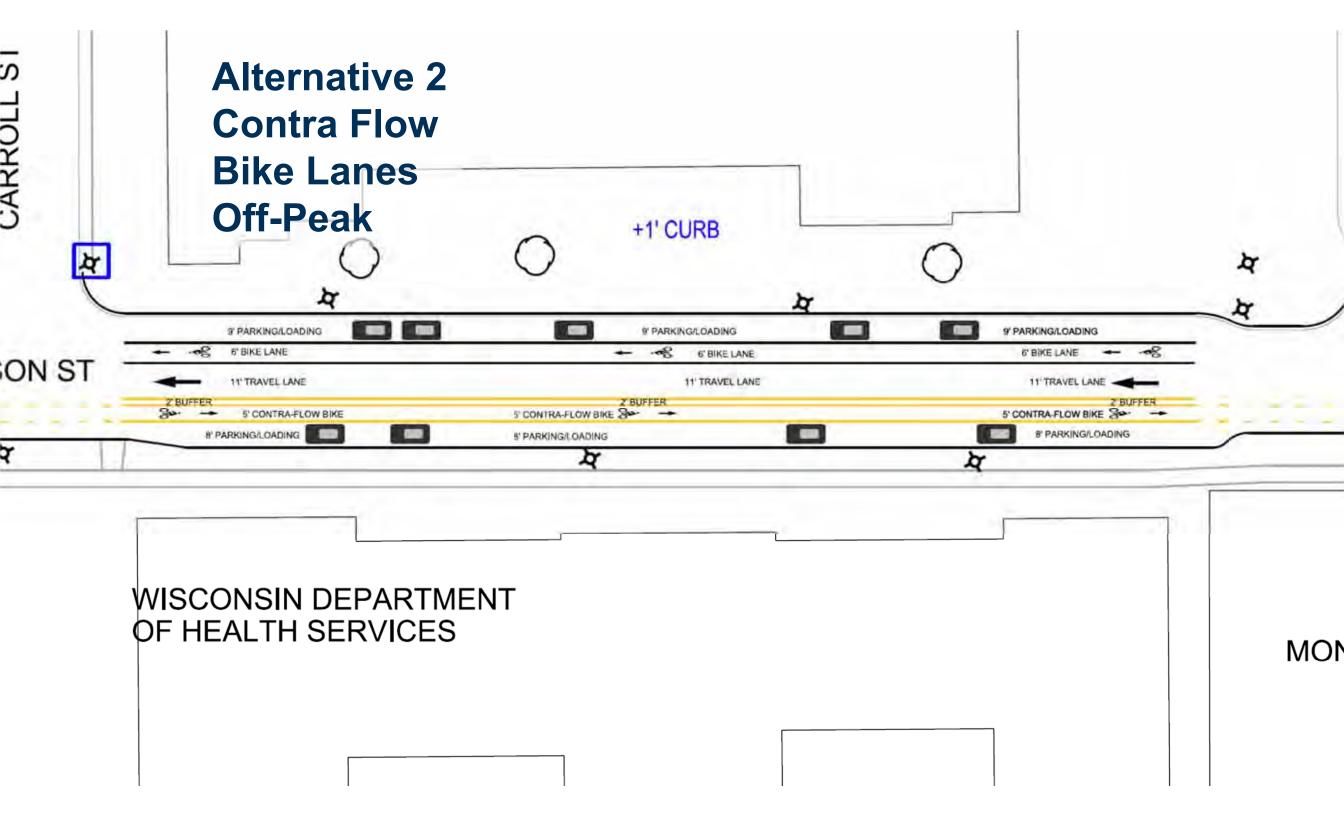








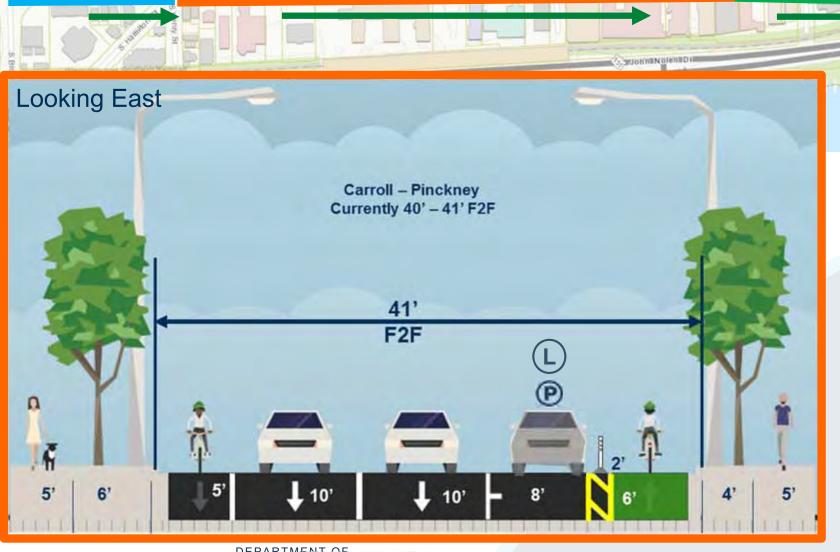




#### **Alternative 2A**

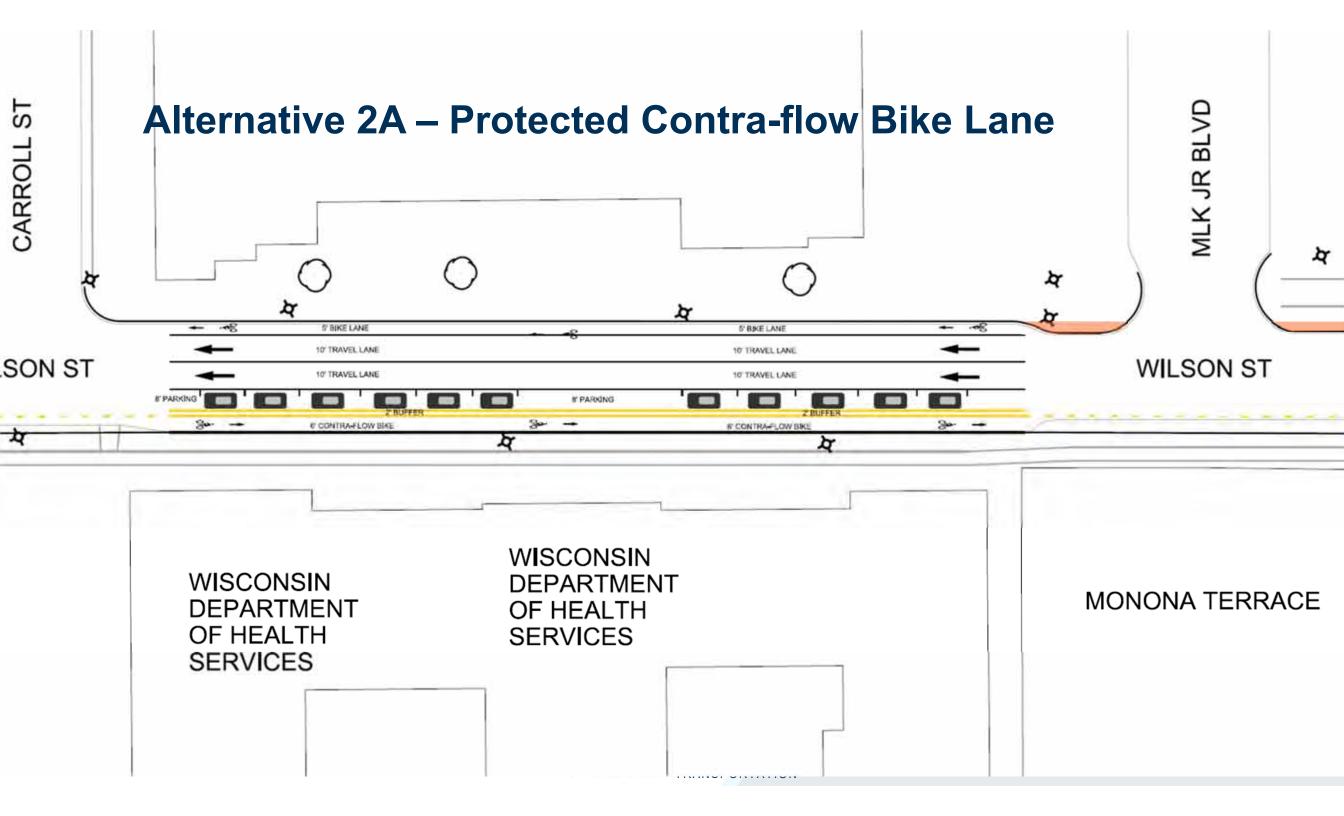
**Protected Contra Flow Bike Lane** 

#### **Alternative 2A Contra Flow Bike Lanes**



DEPARTMENT OF

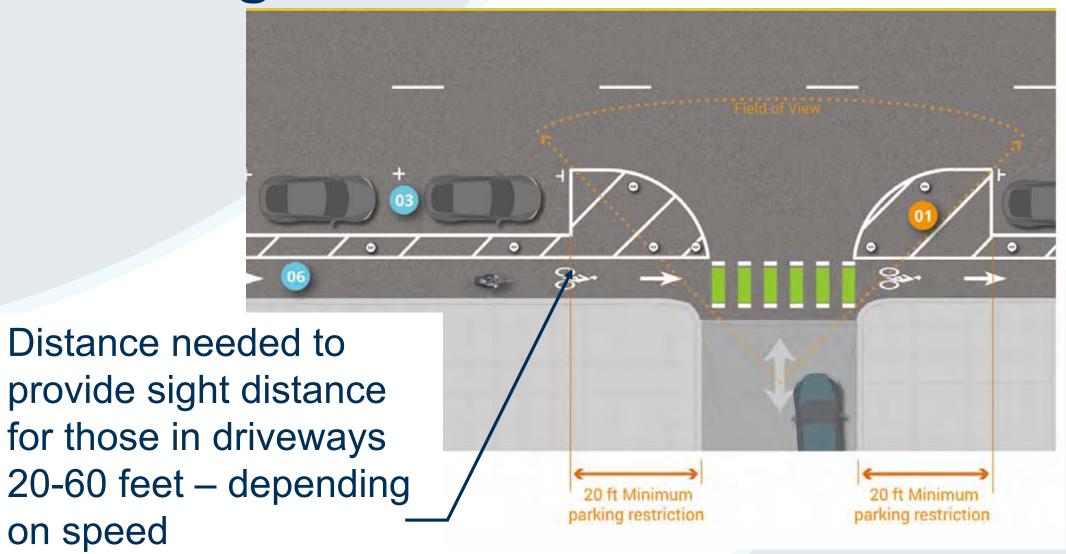




#### **Parking**

on speed

#### FHWA Separated Bike Lane Design Guide

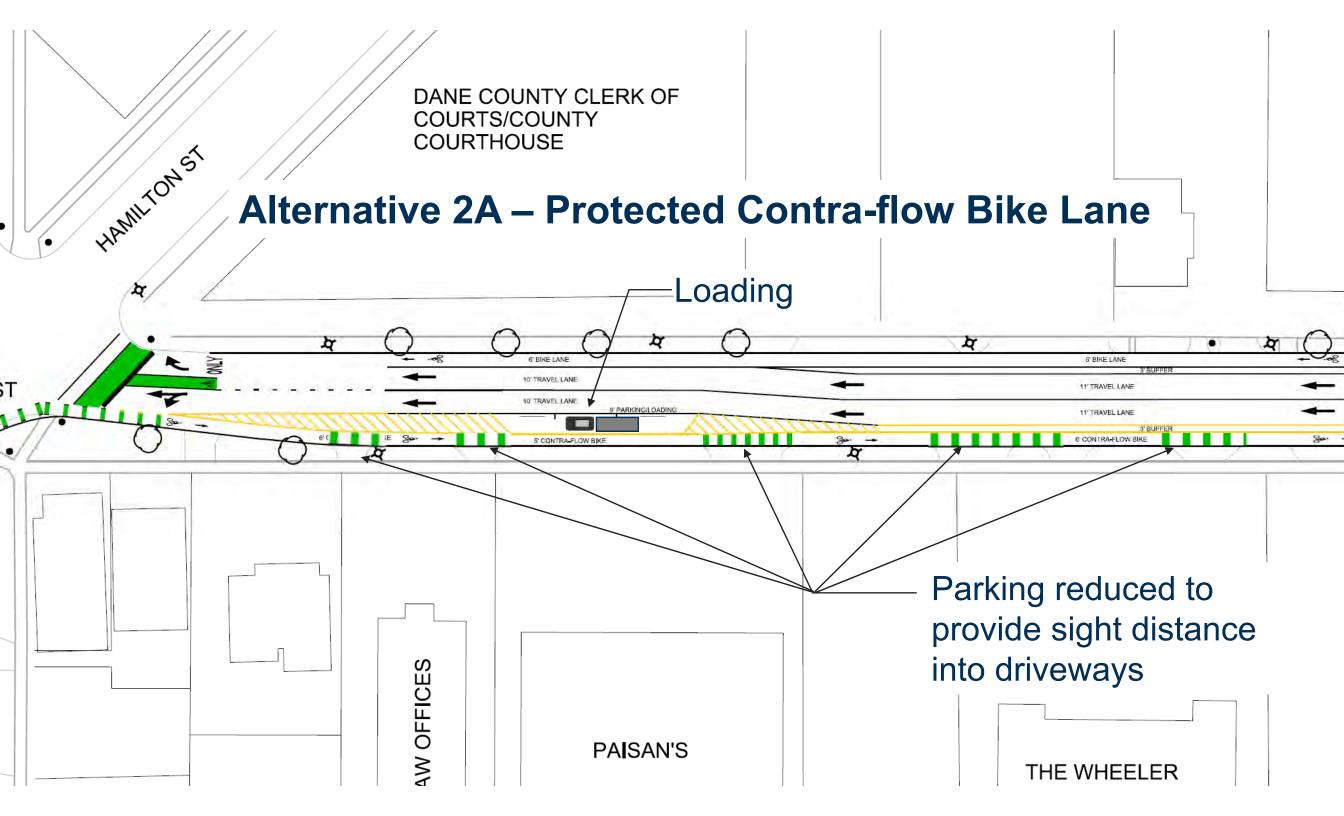


DEPARTMENT OF



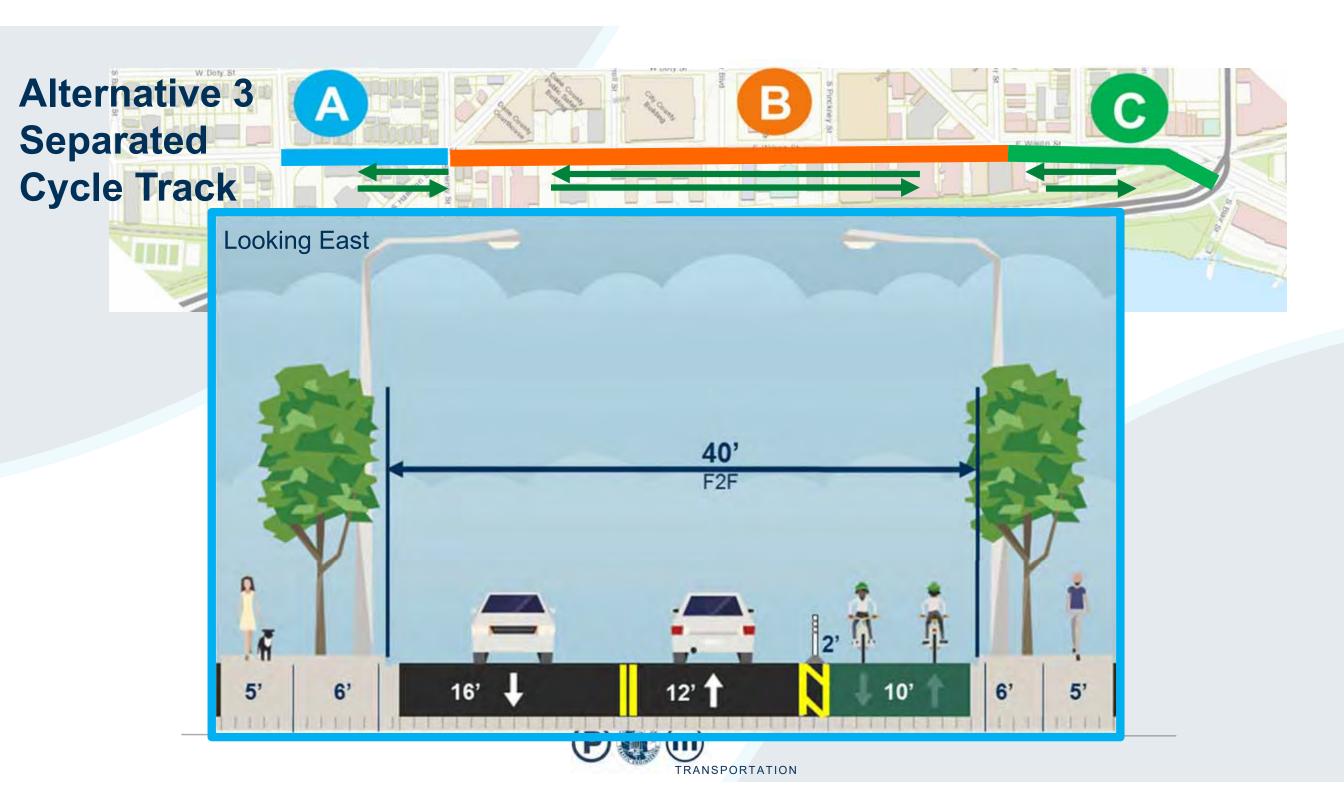




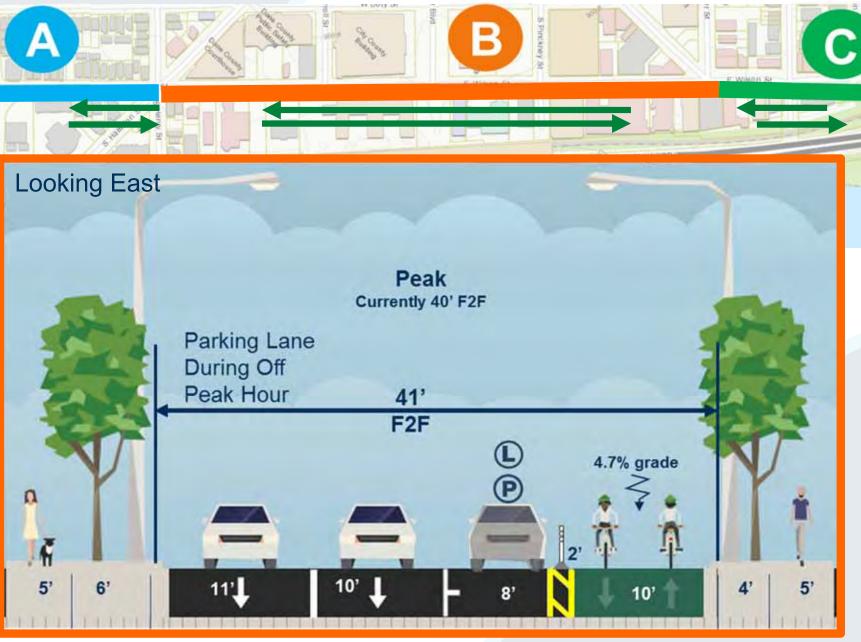


#### **Alternative 3**

**Separated Cycle Track** 

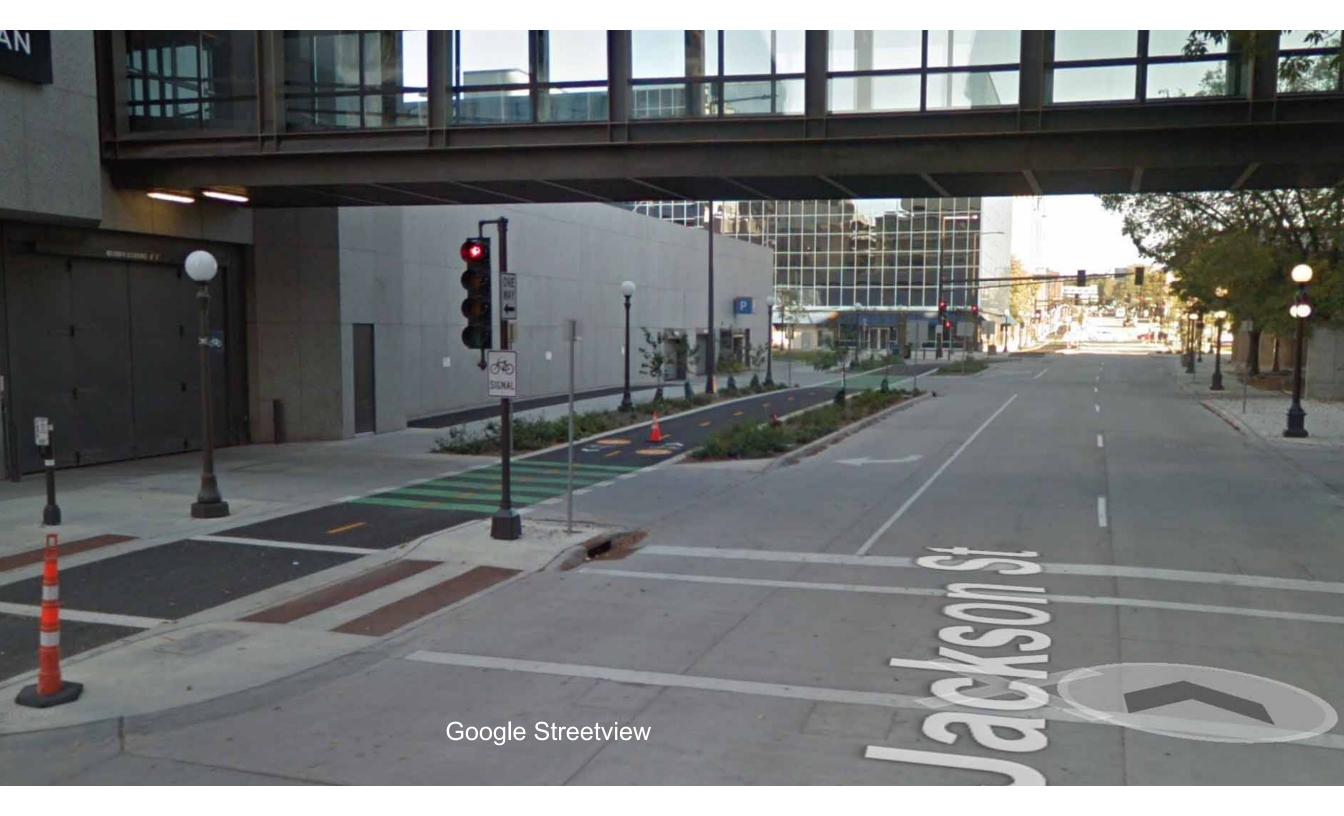


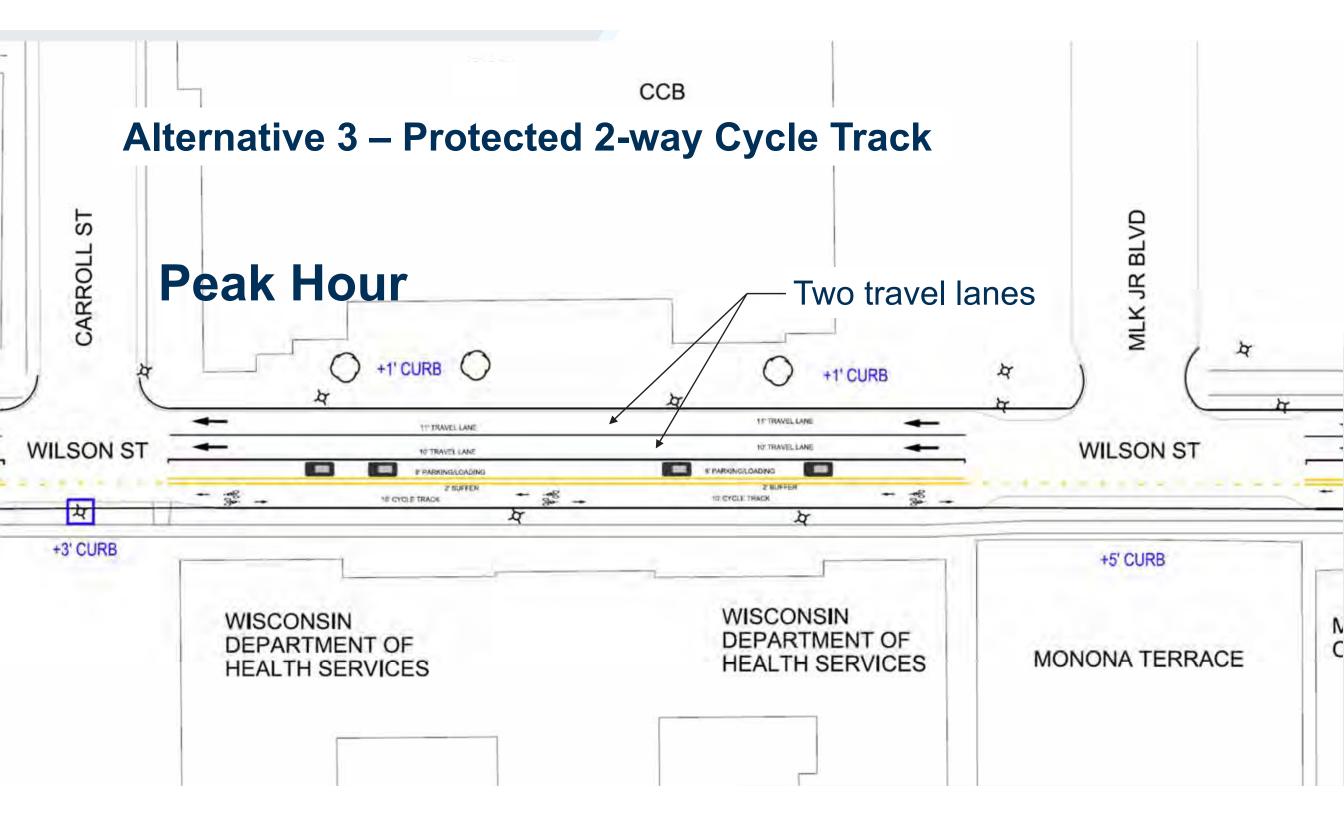
# Alternative 3 Separated Cycle Track

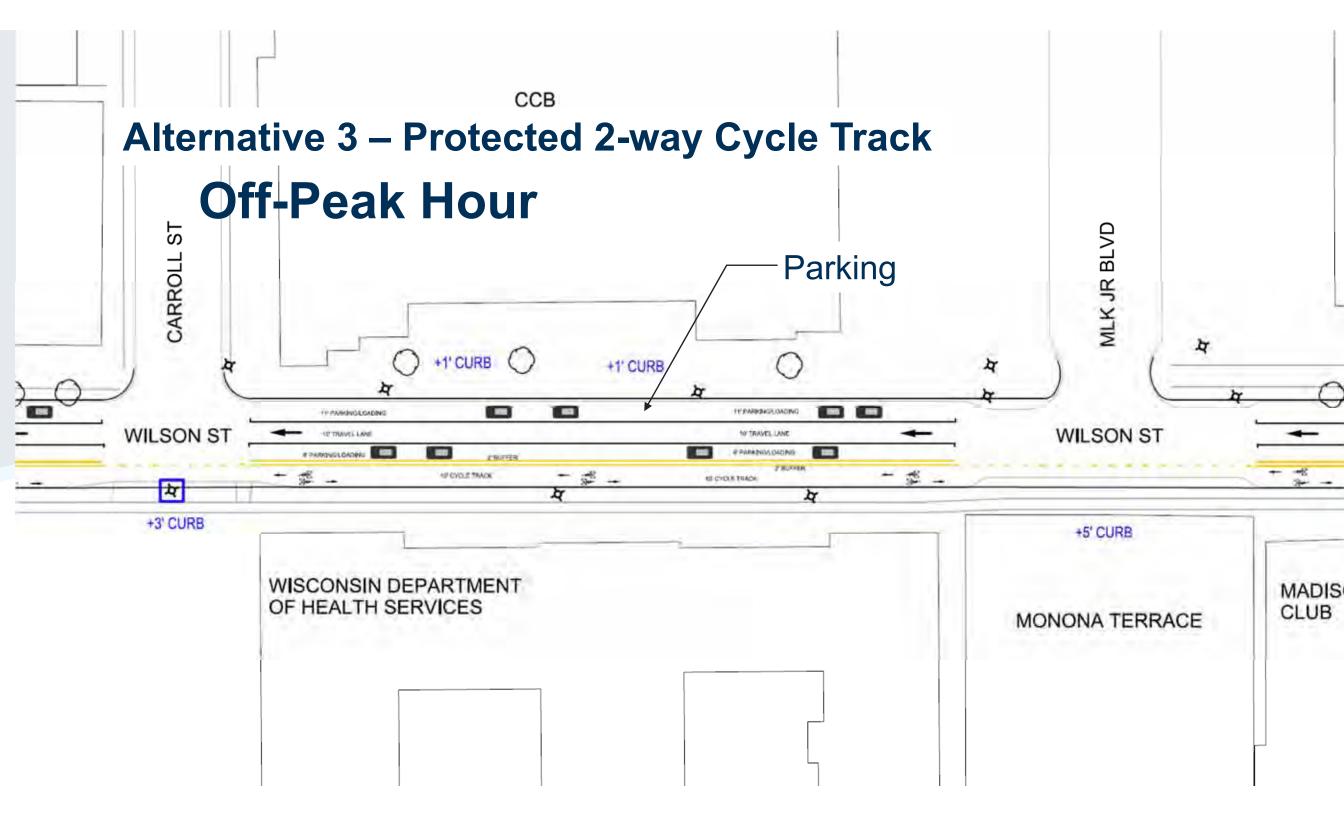












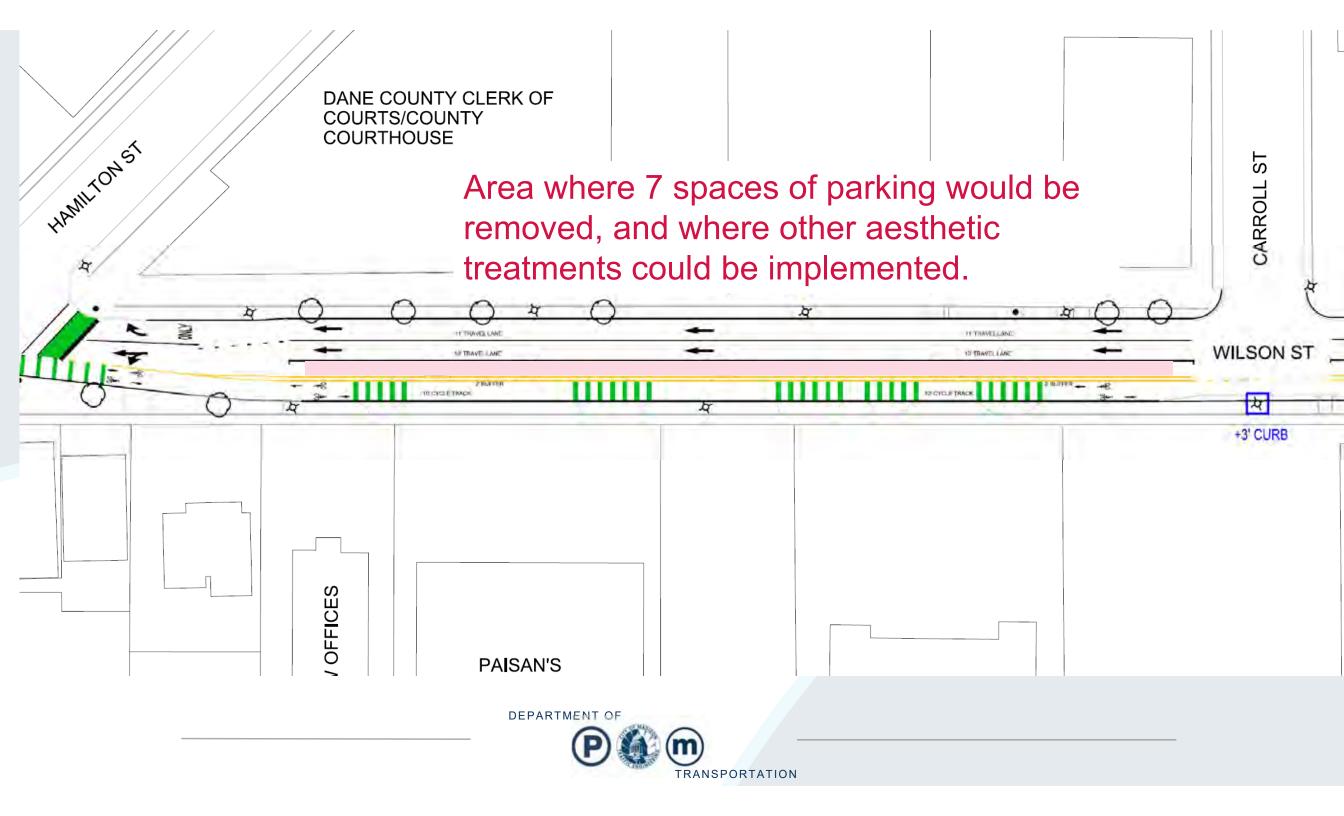
#### **Cycle Track Vision**

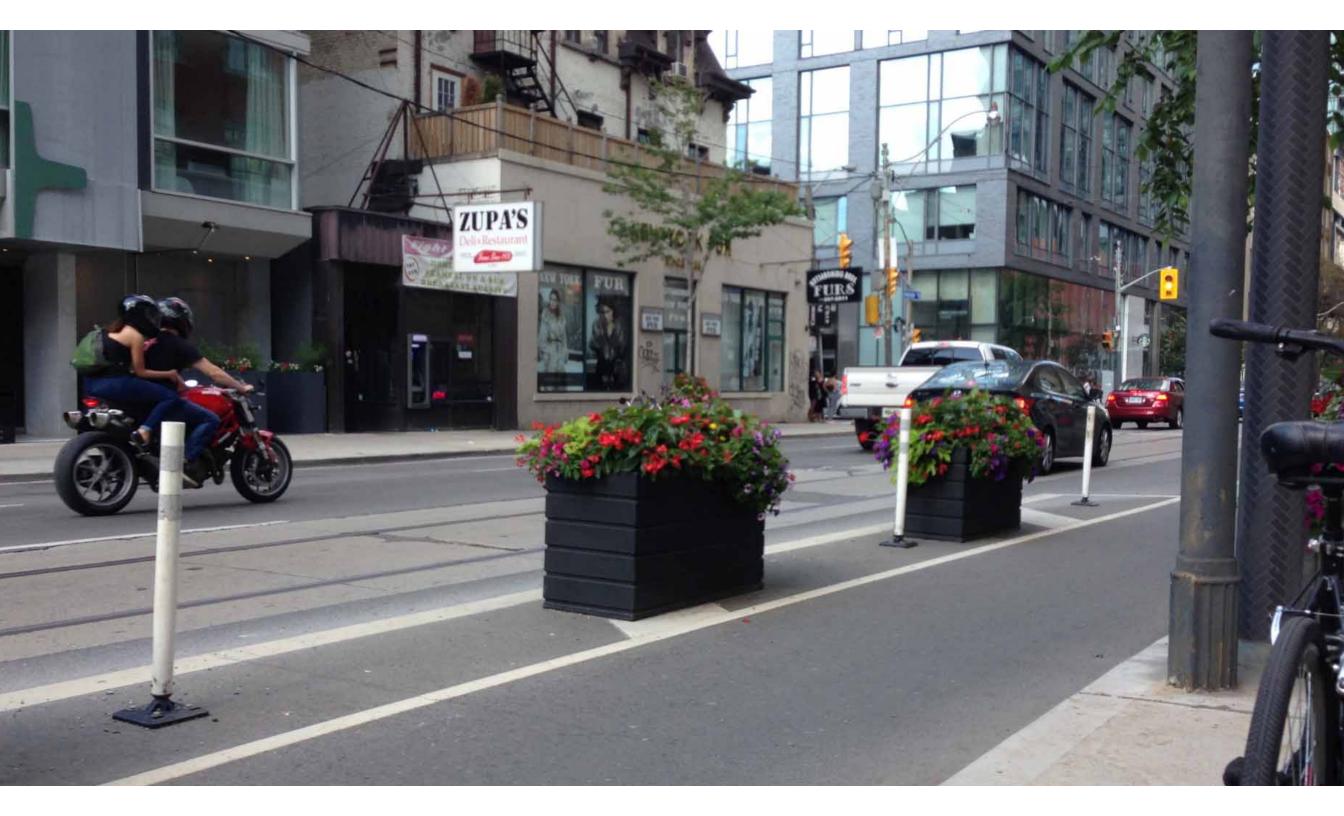


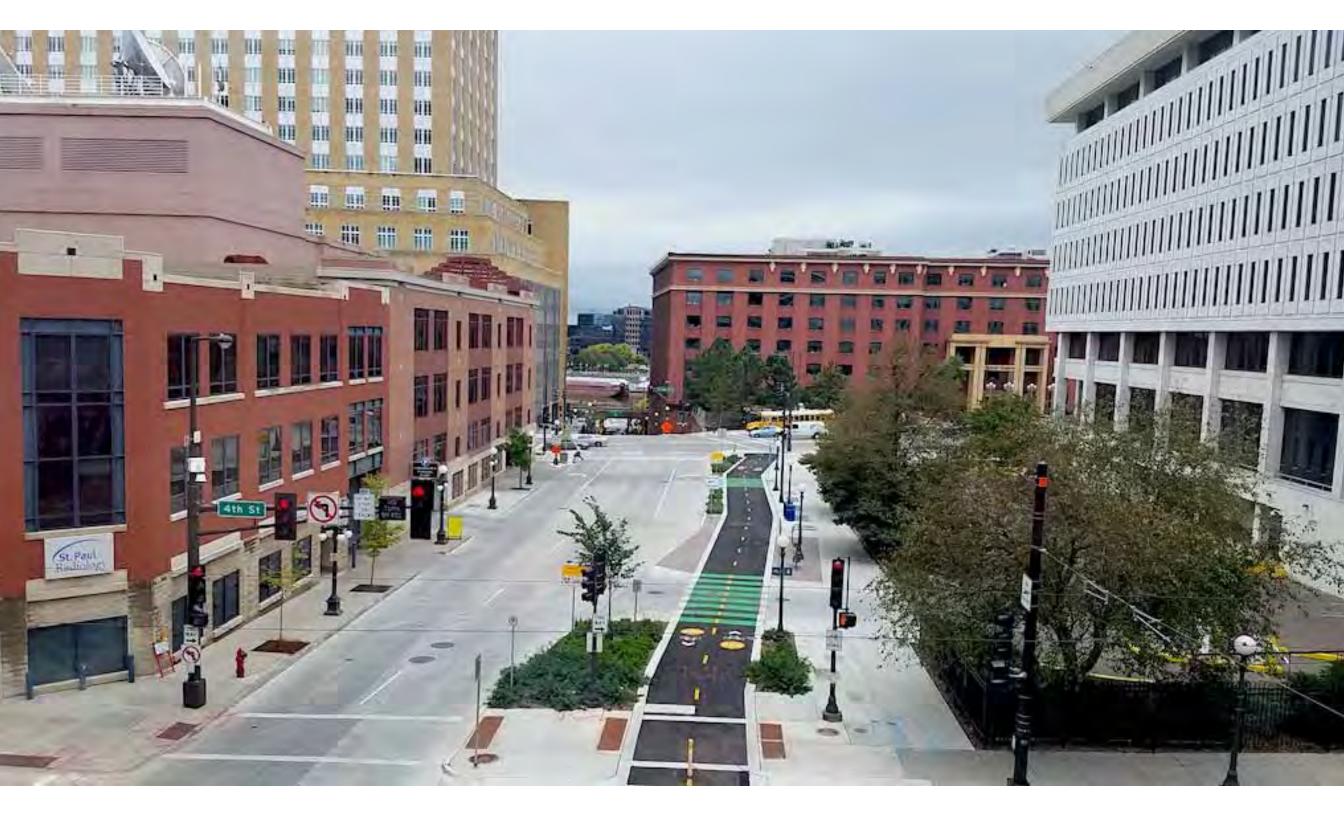
TRANSPORTATION











### **Goals & Objectives**

	1 Bike Lns	2 Cc 2	ontra 2A	3 Separated
Provide Safety				
Increase/Imp Bike Connectivity				
Pleasant Living Environment				
Pleasing Entrance				
Satisfy Parking and Loading				
Preserve Tree Canopy				
Ped Crossings				
Preserve Infrastructure Investment				
Motor Vehicle Operations				

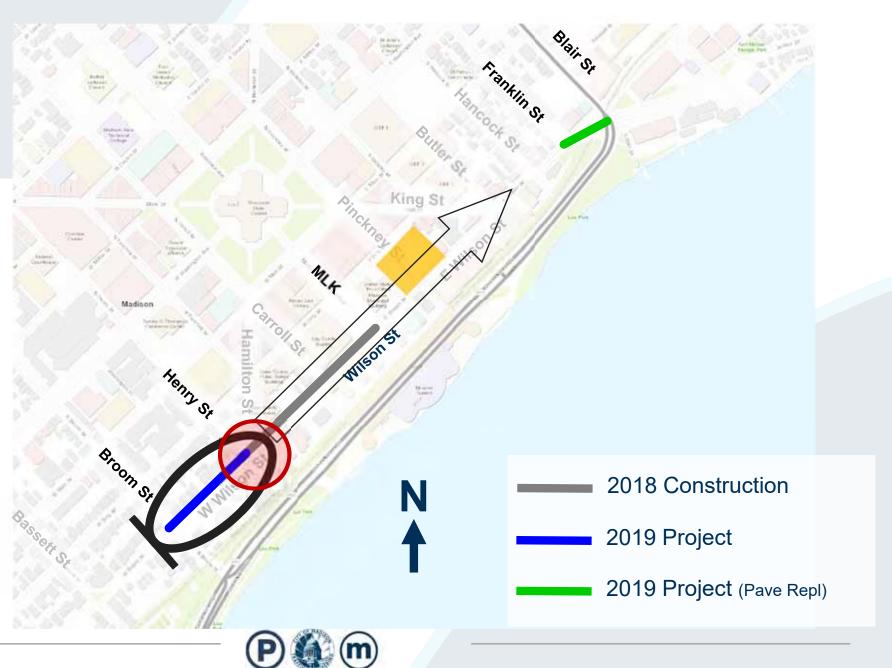


### **Goals & Objectives**

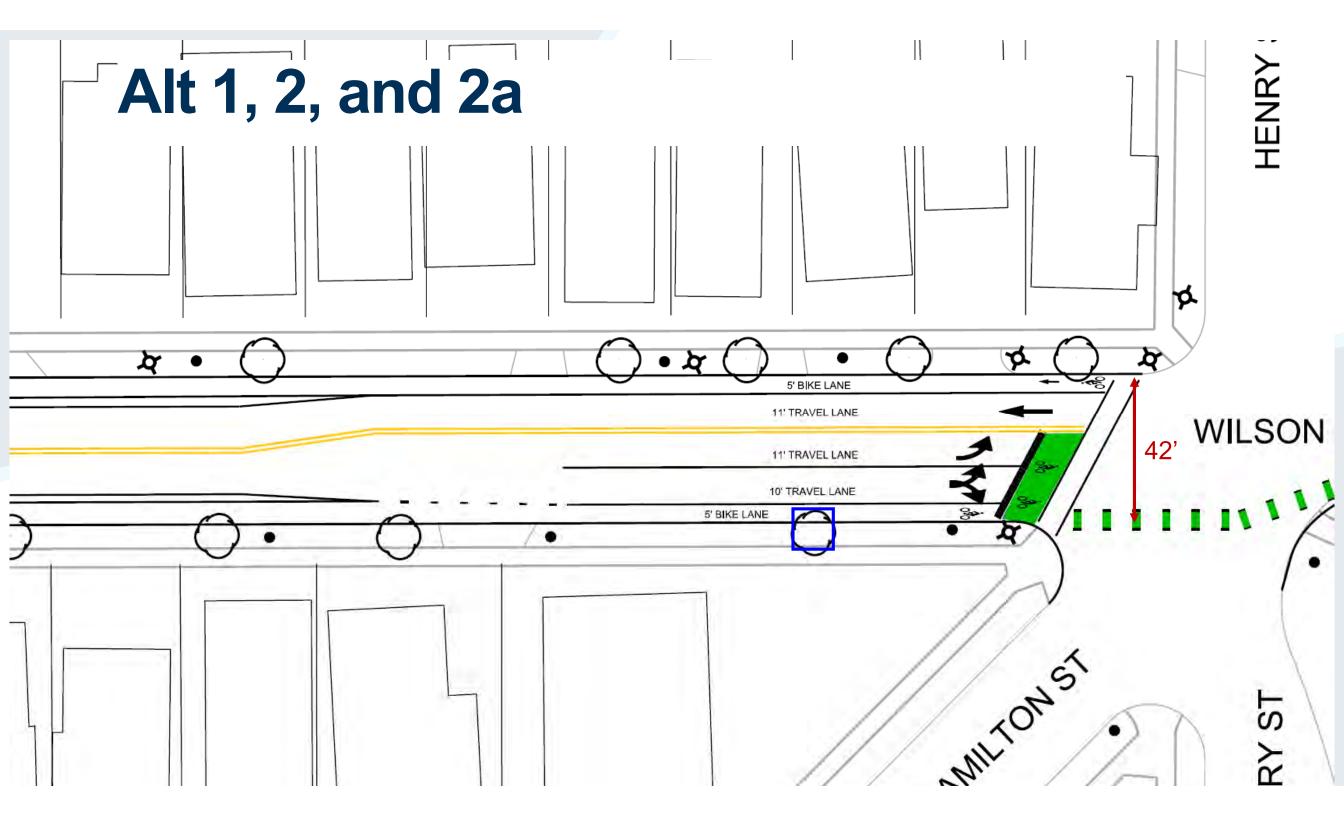
	1 Bike Lns	2 Contra 2   2A	3 Separated
Provide Safety			
Increase/Imp Bike Connectivity			
Pleasant Living Environment			
Pleasing Entrance			
Satisfy Parking and Loading			
Preserve Tree Canopy			
Ped Crossings			
Preserve Infrastructure Investment			
Motor Vehicle Operations			



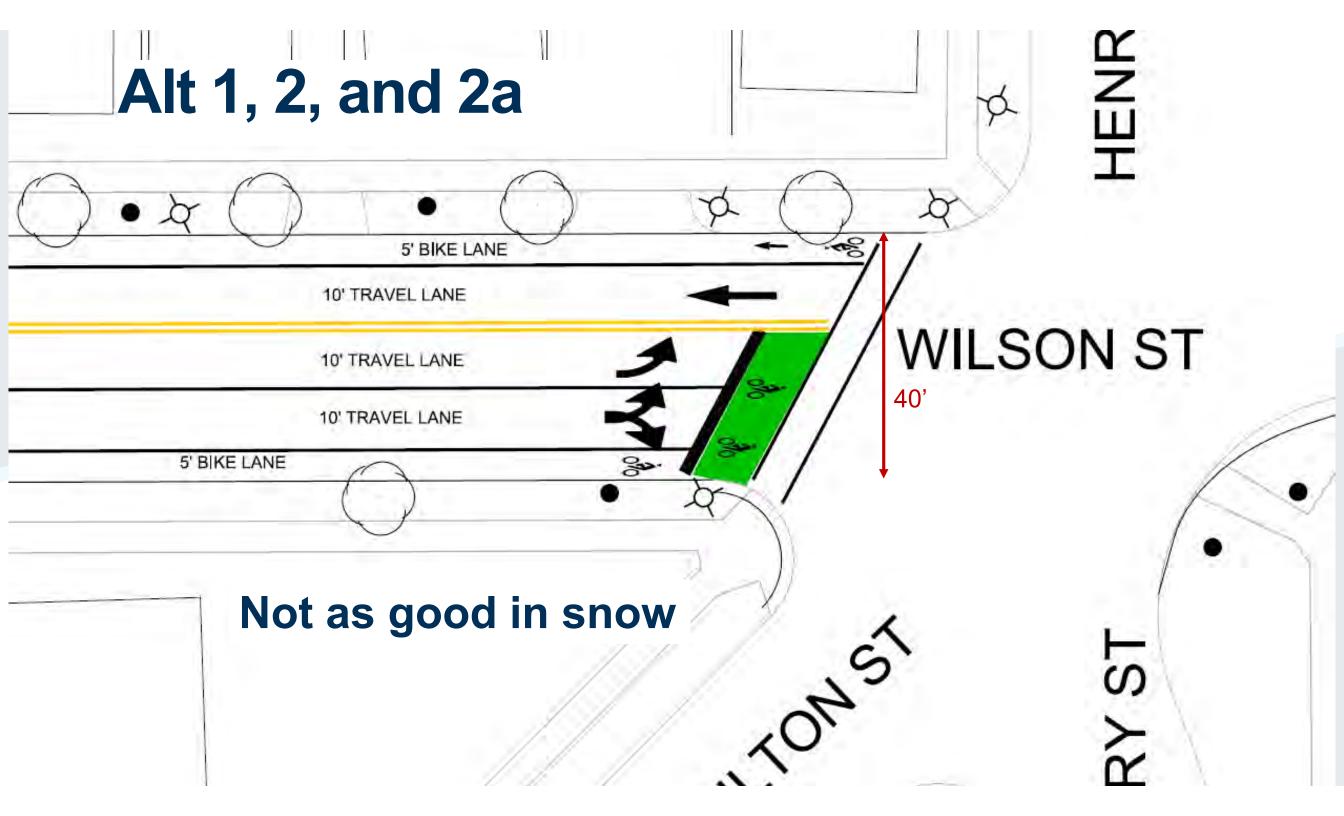
Can we find something for this section, that allows different options to be pursued for the rest of the corridor?

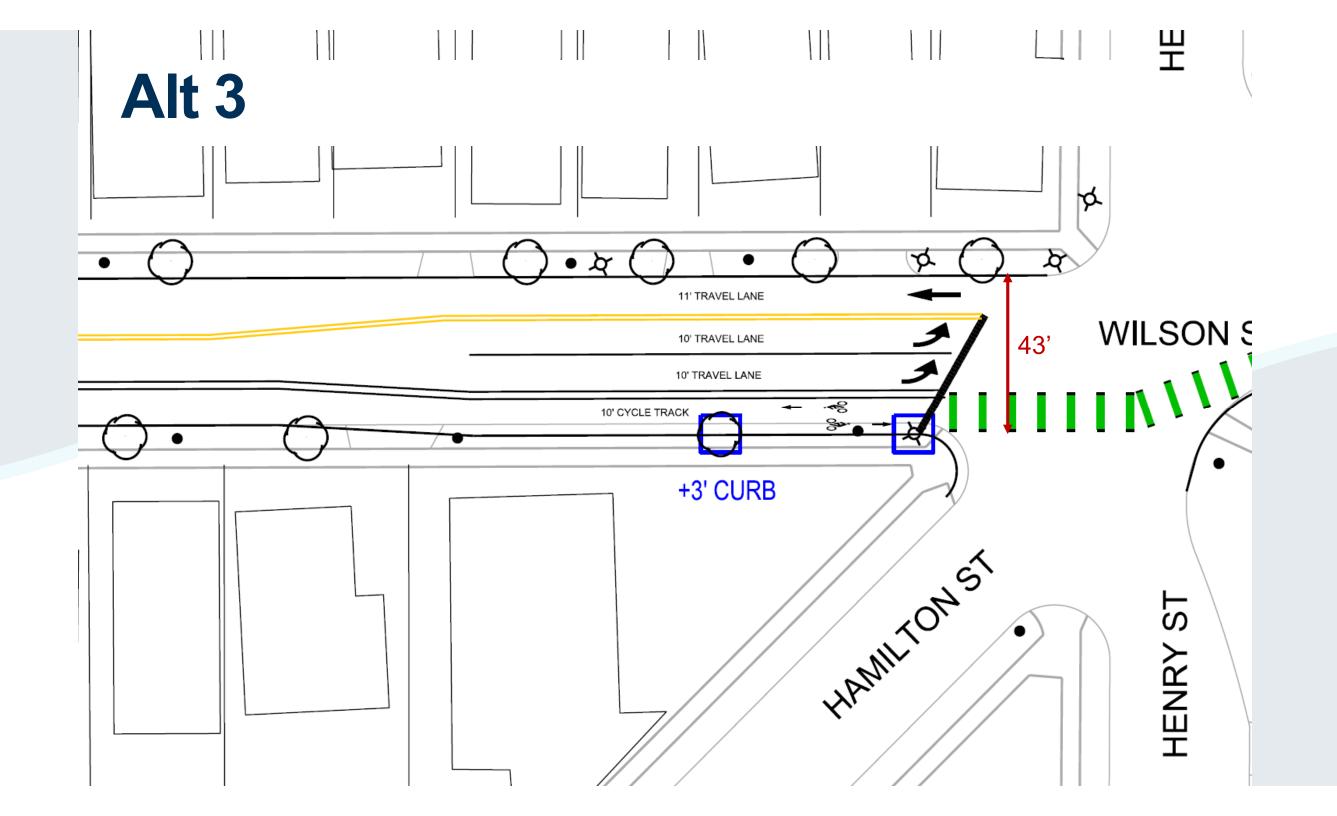


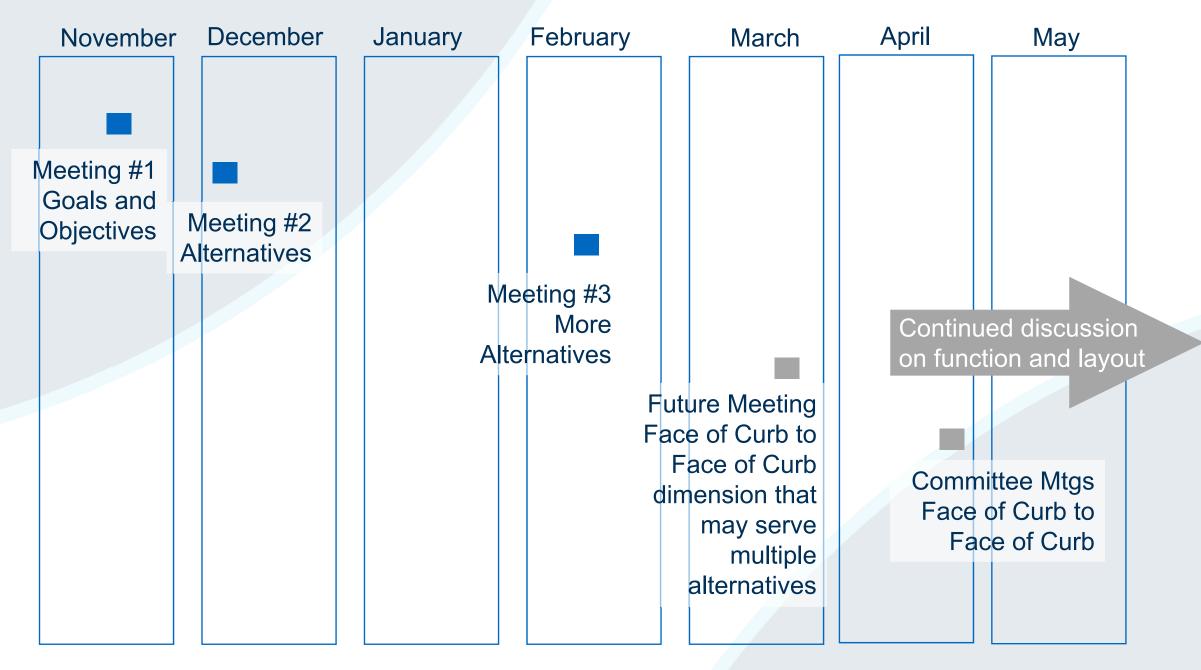
TRANSPORTATION











DEPARTMENT OF



#### Wilson Street Corridor Study

**Public Involvement Meeting 3** 

## **EXTRA SLIDES**