

Lacy Road Reconstruction Project  
City of Fitchburg

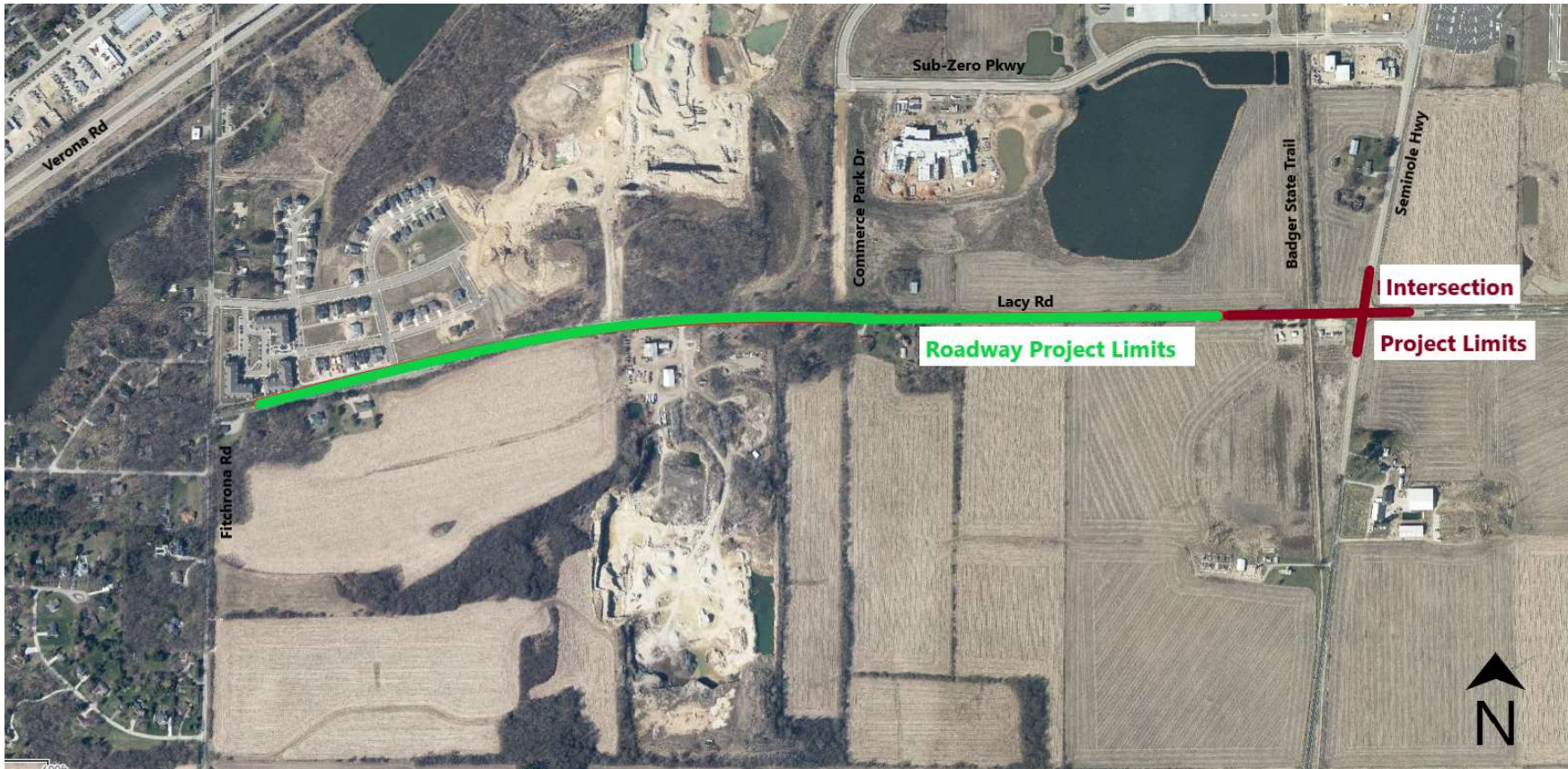
Public Involvement Meeting  
February 17, 2021  
5:30 PM



# Presentation Agenda

- Project Location & Limits
- Need for Project
- Project Goals
- Project Schedule
- Overview of Preliminary Design and Construction Staging
- Project Website

# Location and Limits



# Need for Project

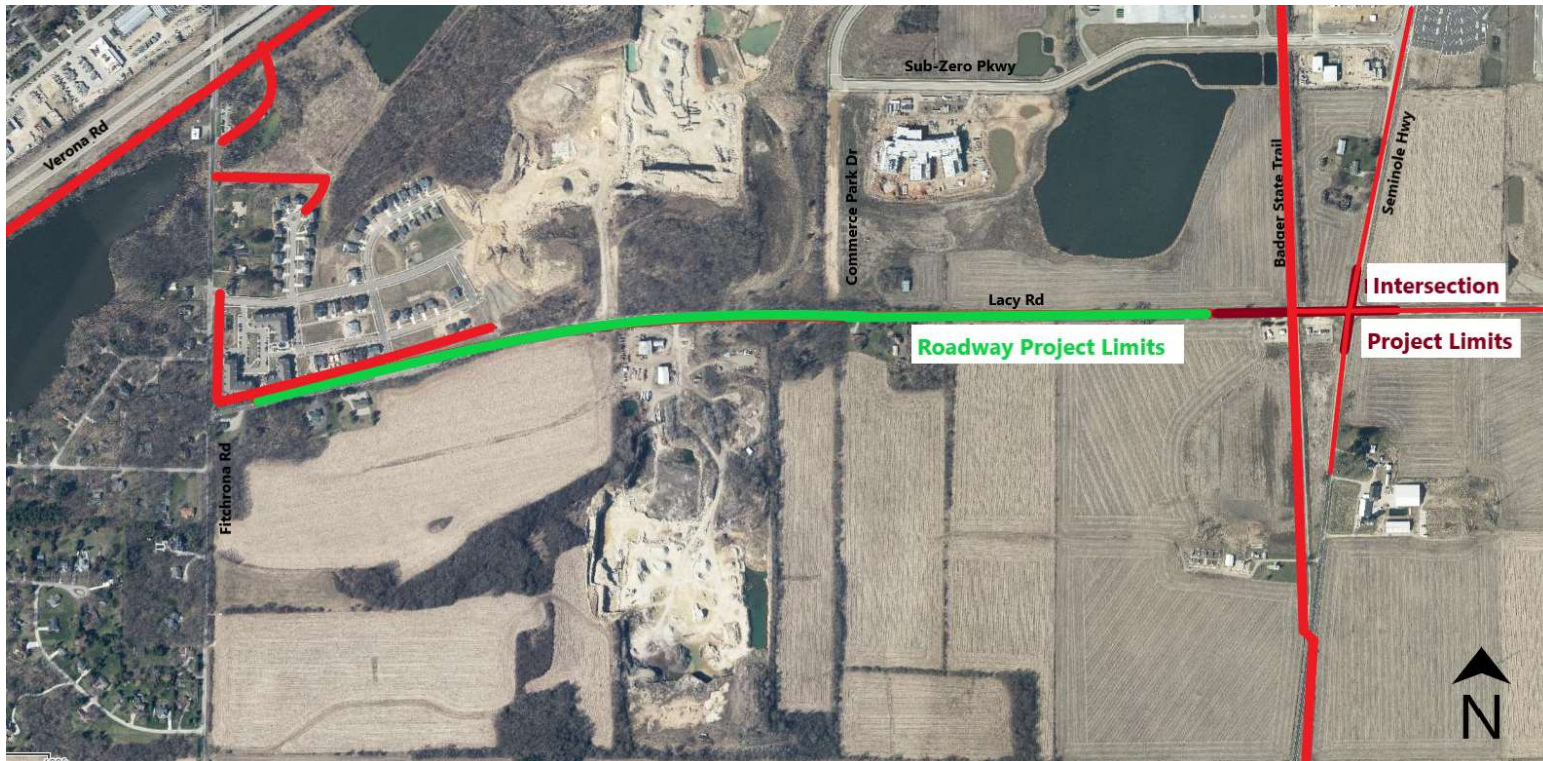
- Why Improve Lacy Road?
  - Address Existing and Long-Term Operational and Safety Needs
  - City Growth and Redevelopment along the Corridor
  - Discontinuous Pedestrian and Bicycle Accommodations

# Need for Project

- Address Existing and Long-Term Operational and Safety Needs
  - Vertical and horizontal curves do not meet adequate sight distance for speed of roadway
  - Project Vicinity Growth
    - Stoner Prairie and Quarry Vista neighborhoods
    - New and proposed industrial park development

# Need for Project

- Discontinuous Pedestrian and Bicycle Accommodations



# Project Goals

- Enhance Bicycle and Pedestrian Accommodations and Continuity by
  - Continuing multiuse path along north sides of Lacy Road
  - Installing buffered bike lanes along Lacy Rd
  - Providing enhanced crossing treatment for the Badger State Trail
- Increase intersection capacity
- Address current and future development and growth within and around the corridor
- Treat storm water in east and west basin
- Additional Project Goals Include:
  - Minimize right of way acquisition and impacts to neighboring properties
  - Minimize impacts to all corridor users during construction

# Project Schedule

- Project Kickoff – Summer 2020
- Public Meeting – February 17, 2021
- Revised Typical Section based on Public Meeting Comments – February 2021
- Final Design – September 2021
- Construction – Spring 2022

# Overview of Design and Construction Staging

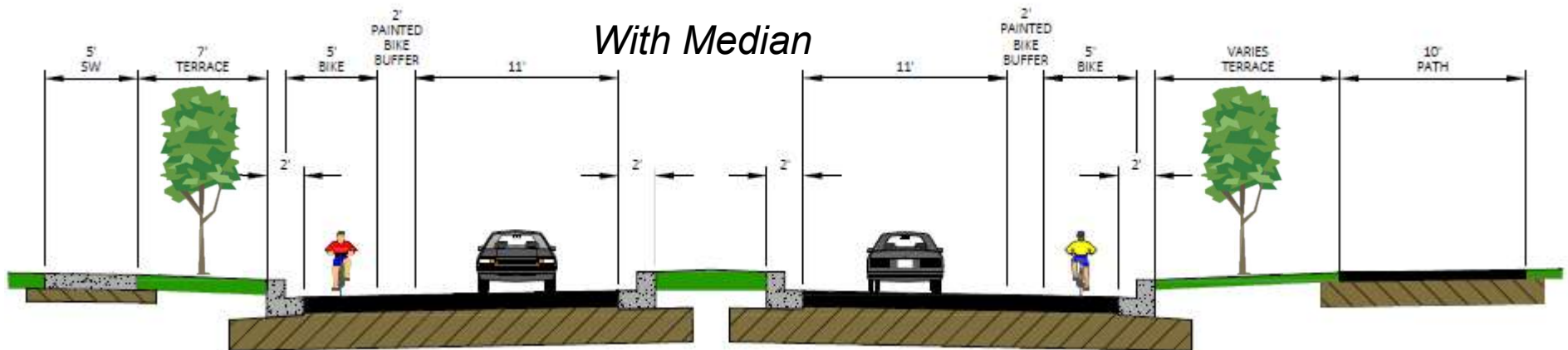
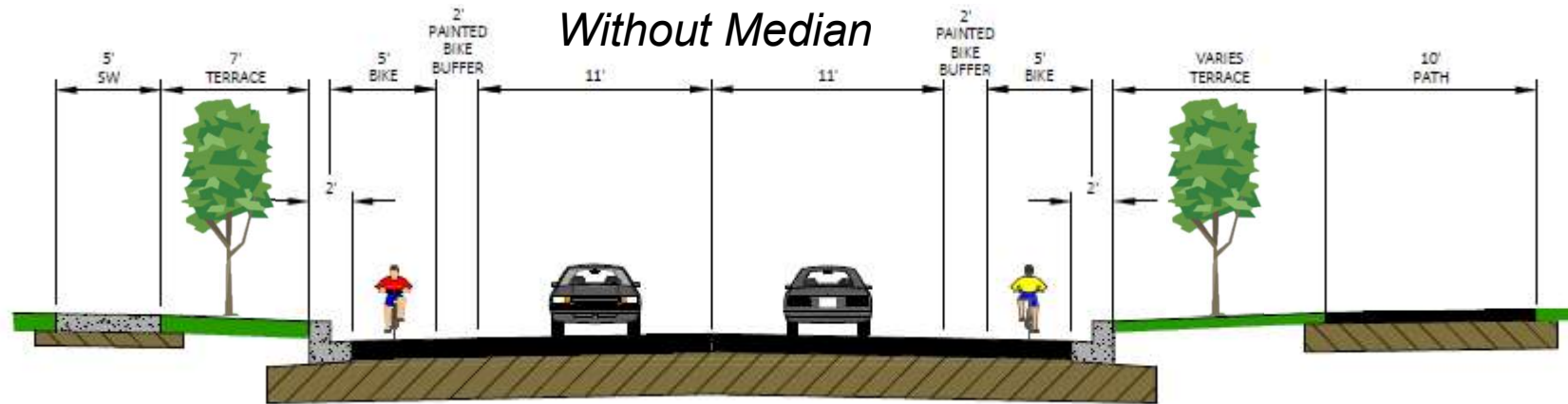
- Project Scope
- Typical Cross Section
- Proposed Corridor Layout
- Proposed Intersection Improvement at Lacy & Seminole
- Badger State Trail Crossing
- Construction Staging

# Project Scope

- Reconstruction of Lacy Road
- 10' Multiuse path along north side
- On-street buffered bicycle lanes
- Capacity improvement of Lacy & Seminole
- Extension of water and sewer utilities to accommodate existing and proposed development
  - West basin storm water wet pond
  - East basin storm water study (ongoing)
    - Project wet pond fits into larger study of kettle and pumping
- New street trees and tree protection during construction (where feasible)
- New lighting, pavement marking, and signing

# Typical Cross Section

- Two-lane divided roadway
- Bicycle Accommodations
  - Buffered on-street bicycle lanes
  - Multiuse path along north sides of Lacy Road



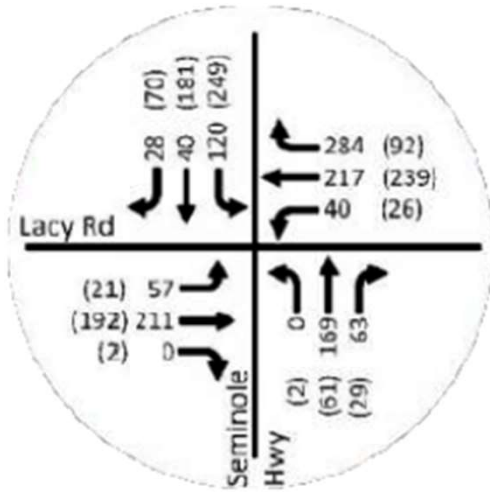


LEGEND	
	PROPERTY LINE
	EXISTING R/W
	PROPOSED R/W
	TEMPORARY LIMITED EASEMENT
	PERMANENT LIMITED EASEMENT

PUBLIC INFORMATION MEETING  
LACY ROAD ROAD IMPROVEMENTS  
FEBRUARY 17, 2021



# Lacy Road – Seminole Highway



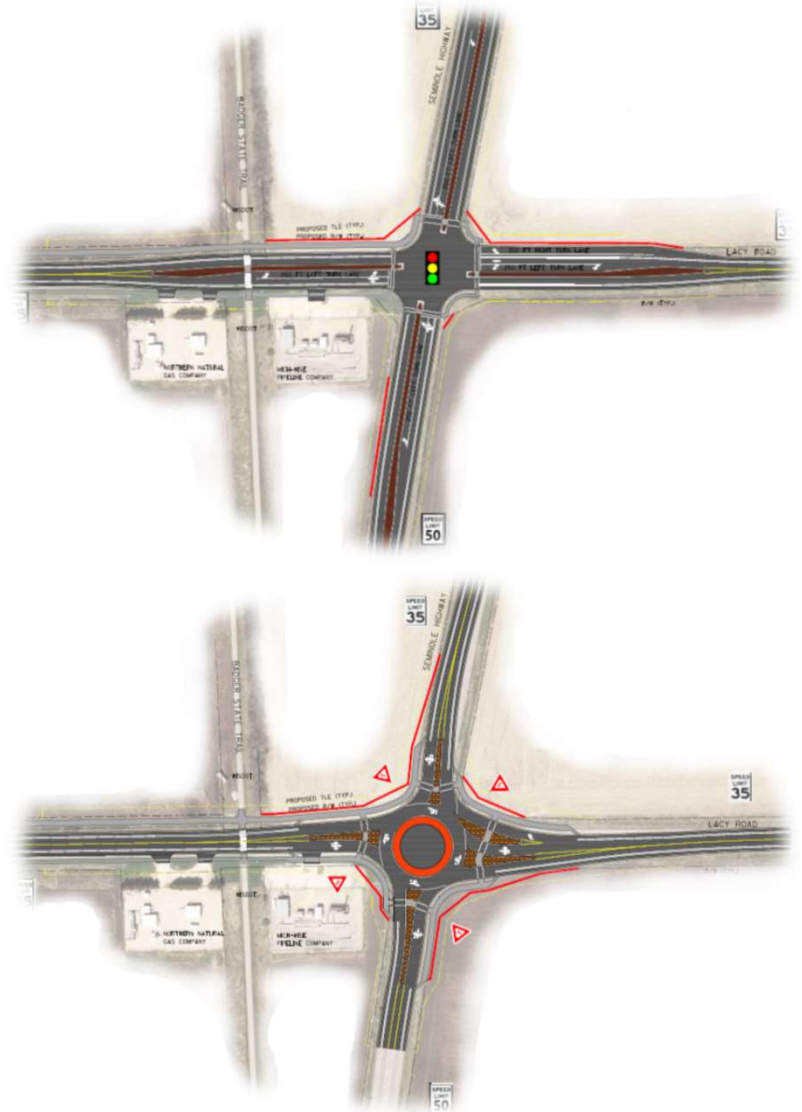
Vehicle Turning Movements  
March 10 2020 - AM Peak (PM Peak)



Existing Conditions

# Lacy Road – Seminole Highway

- Two Alternatives:
  - **Traffic Signal**
    - Includes left turn lanes in all directions and right turn lane for westbound Lacy Rd
    - Estimated Cost:
      - Construction + ROW - \$1.89 M
      - Annual Maintenance - \$1,800
  - **Roundabout**
    - Includes right turn bypass lane for westbound Lacy Rd
    - Estimated Cost:
      - Construction + ROW - \$1.64 M



# Lacy Road – Seminole Highway

## Intersection Operational Comparison (Existing Volume)

Peak Period	Traffic Control	Measure of Effectiveness	Intersection Movement												Overall Intersection
			Eastbound			Westbound			Northbound			Southbound			
			Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
AM Peak	Existing: AWSC	LOS	C			C			C			B			C
		Delay (s)	19			17			15			17			17
		V/C	0.57			0.52			0.51			0.50			--
		Queue (ft)	90			75			75			70			--
	Alternative 1: Traffic Signal	LOS	B	A	B	A	A	-	A	B	A	A	A		
		Delay (s)	11	9	10	9	9	-	9	11	7	9	9		
		V/C	0.14	0.43	0.09	0.45	0.43	0.00	0.45	0.28	0.14	--	--		
		Queue (ft)	<25	30	<25	30	25	<25	25	<25	<25	--	--		
	Alternative 2: Roundabout	LOS	A			A			A			A			A
		Delay (s)	6			6			7			6			6
		V/C	0.28			0.27			0.29			0.27			--
		Queue (ft)	30			30			30			25			--
PM Peak	Existing: AWSC	LOS	C			C			B			C			C
		Delay (s)	16			18			10			12			16
		V/C	0.46			0.56			0.17			0.20			--
		Queue (ft)	60			85			<25			25			--
	Alternative 1: Traffic Signal	LOS	B	A	B	B	B	B	A	A	A	A	A		
		Delay (s)	12	11	12	11	9	10	7	9	9	10	10		
		V/C	0.14	0.43	0.09	0.45	0.43	0.00	0.45	0.28	0.14	--	--		
		Queue (ft)	<25	40	<25	50	<25	<25	25	40	60	--	--		
	Alternative 2: Roundabout	LOS	A			A			A			A			A
		Delay (s)	7			5			4			5			8
		V/C	0.27			0.24			0.08			0.12			--
		Queue (ft)	30			25			<25			85			--

# Lacy Road – Seminole Highway

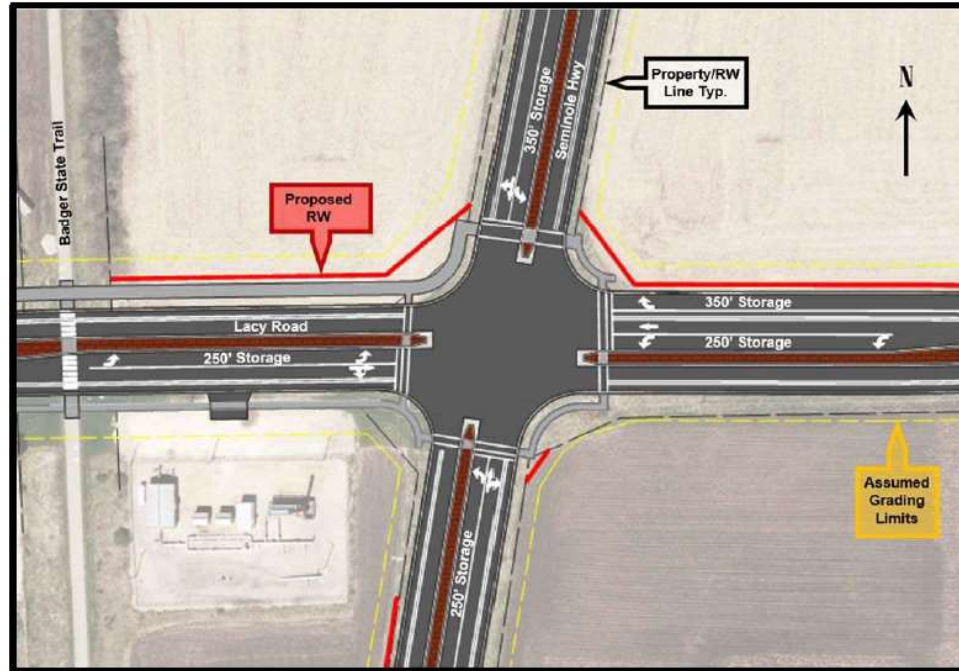
## Intersection Operational Comparison (Sensitivity Analysis)

Traffic Control Alternatives	Peak Period	
	AM Peak	PM Peak
Existing: <i>All-Way Stop Control</i>	32%	39%
Alternative 1: <i>Traffic Signal</i>	102%	111%
Alternative 2: <i>Roundabout</i>	126%	63%

This table provides what amount of additional vehicle volume each alternate can handle before any movement has a Level of Service F

- i.e. higher percentages indicate more spare capacity

# Lacy Road – Seminole Highway



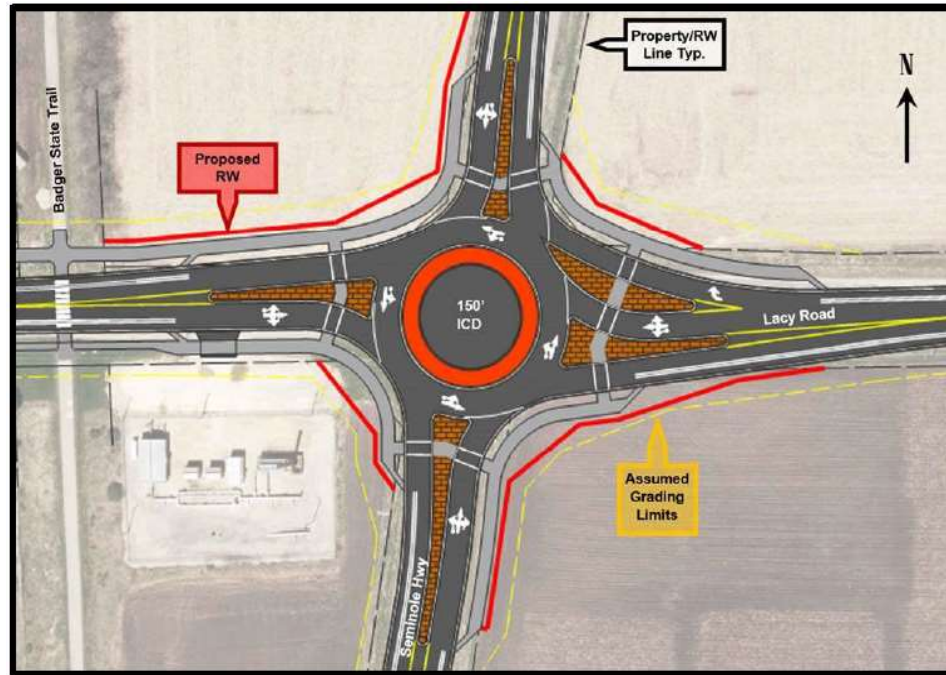
## Pros:

- Higher spare capacity
- Less out of direction travel for bike/pedestrians

## Cons:

- Higher cost
- Longer wait for bikes/pedestrians

# Lacy Road – Seminole Highway



## Pros:

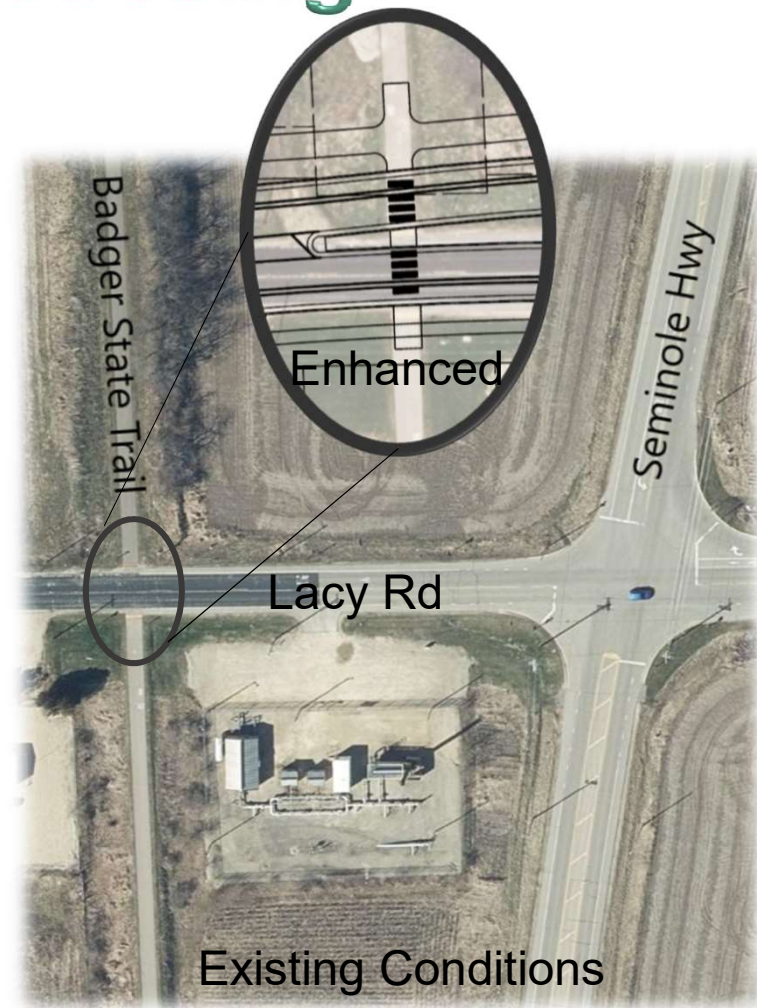
- Lower Cost
- Bike/pedestrians cross one direction at a time
- Lower right angle collisions

## Cons:

- Difficult crossing for pedestrians with vision impairments
- No emergency vehicle priority

# Badger State Trail Crossing

- Owned by Wisconsin Department of Transportation (WisDOT)
- Maintained by Wisconsin Department of Natural Resources (WDNR)
- Public Trail Area
- Existing at-grade Badger State Trail crossing
- Crossing treatment to be evaluated with Lacy & Seminole intersection design



# Construction Staging

- Lacy Road is proposed to be closed during construction
  - Construction of both the roadway project and Seminole intersection project is anticipated to be concurrent
  - Badger State Trail anticipated to be open during construction



# Your Input Is Needed

- Please send us your comments – Due February 24, 2021
- Visit the project webpage to provide your feedback
  - [www.fitchburgwi.gov/2678/Lacy-Road-Fitchrona-to-Seminole-Hwy](http://www.fitchburgwi.gov/2678/Lacy-Road-Fitchrona-to-Seminole-Hwy)
- Receive updates on the project progress by subscribing to “Lacy Rd - Fitchrona Rd to Seminole Hwy” using the City of Fitchburg’s “Notify Me” system



## Notify Me®

▼ Available Lists

1. Type your email address in the box and select **Sign In**.
2. If you want to receive text messages enter your phone number and select **Save**.
3. To subscribe or unsubscribe click  and/or  next to the lists to which you wish to subscribe/unsubscribe.

**Thank you for attending  
tonight's meeting!**

**Questions?**



**Project Information:**

[www.fitchburgwi.gov/2678/Lacy-Road-Fitchrona-to-Seminole-Hwy](http://www.fitchburgwi.gov/2678/Lacy-Road-Fitchrona-to-Seminole-Hwy)

**Contact Information:**

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