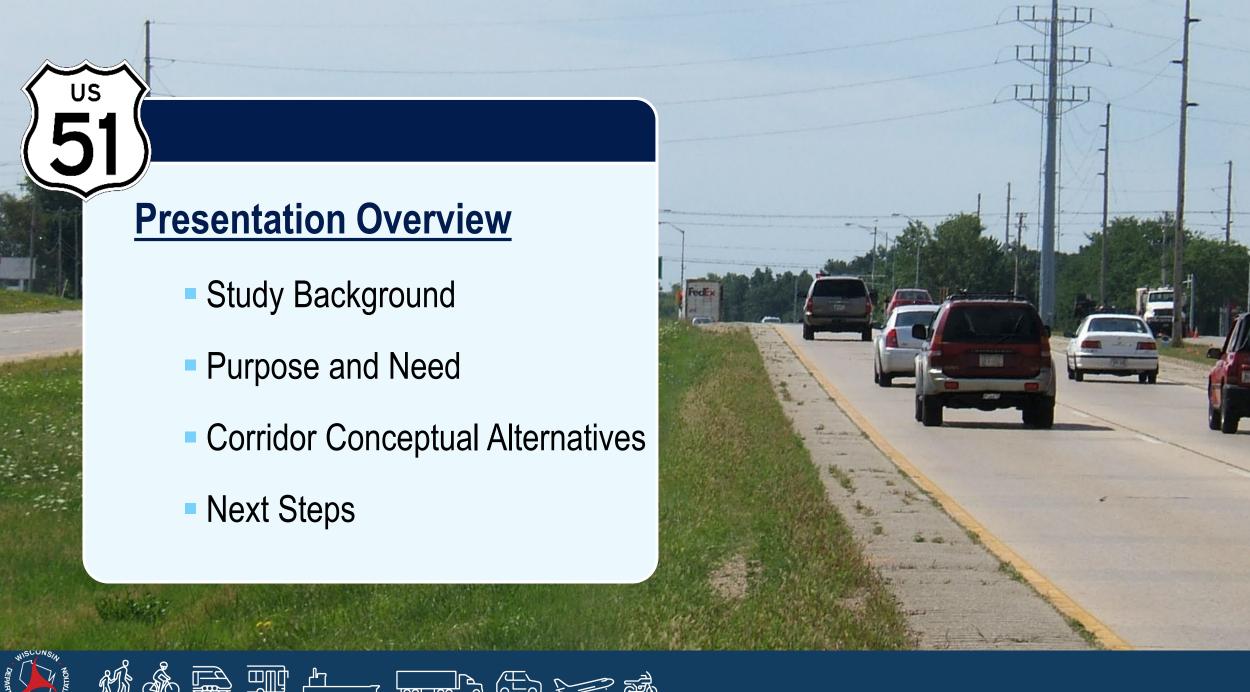


# US 51 (Stoughton Road) South Corridor Study Public Involvement Meeting

Robert M. La Follette High School, Madison, WI

**November 19, 2024** 









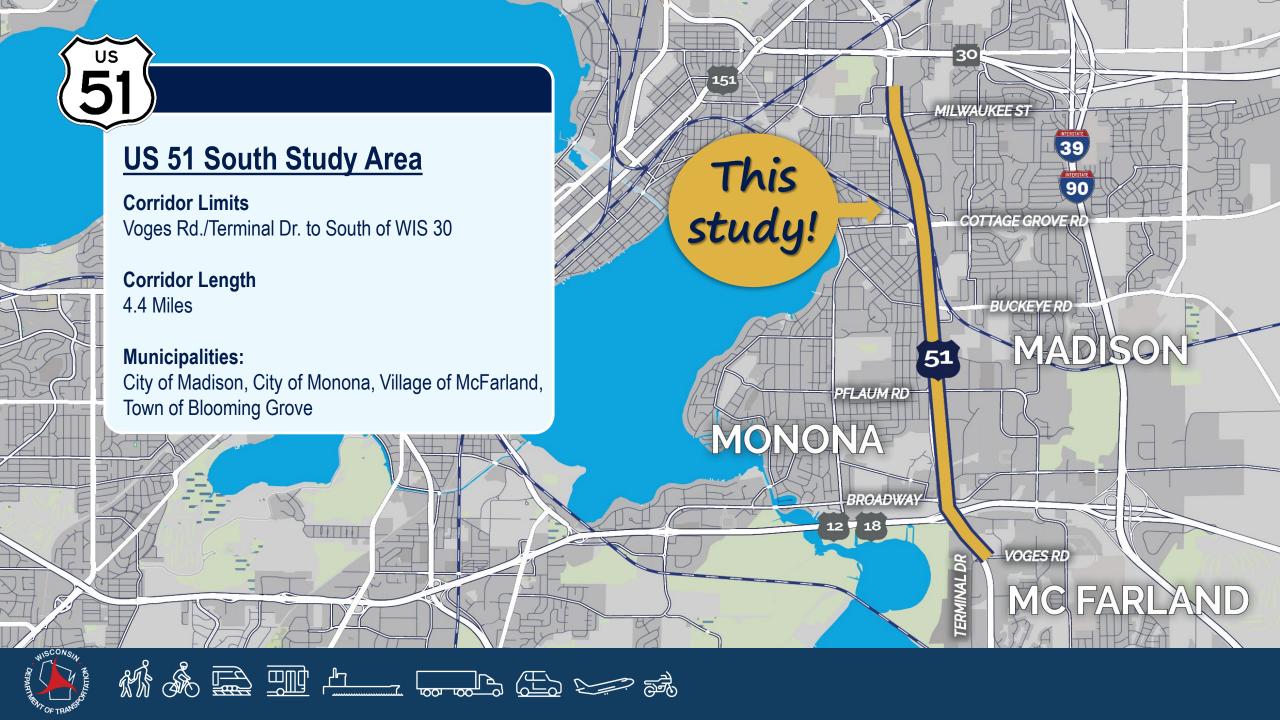
































# **Purpose and Needs Summary**

The purpose of the US 51 South Study is to improve safety and mobility for all modes of travel and improve community connectivity, guided by local community plans and goals.

#### Needs:



## Safety

High number of crashes at US 51 intersections and safety concerns for all modes of travel



## **Mobility**

**Poor operations** and long backups at US 51 intersections



### Connectivity

US 51 can act as a barrier, with limited east-west crossings

















# **Study Process**



### **Conceptual Alternatives**









Conceptual alternatives presented are flexible. Your feedback will help combine, adjust, and refine the detailed alternatives.





# All corridor conceptual alternatives presented today will:



Add one lane in each direction



Reduce speed



**Improve** multimodal facilities













# Recommended Design Improvements

Minimal Shoulder, Curb and Gutter



Wide Shoulder, Mountable Curb

Wide Shoulder, Ditch







# **Types of Improvements**

Options for multimodal facilities will be explored in all alternatives. Potential multimodal improvements include:



**Separated Bike Lane** 



**Bike/Pedestrian Over/Underpass** 



**Bike Signals** 



**Sidewalk** 



**Bus Lane** 



**Shared-Use Path** 



















# Key differences between corridor conceptual alternatives are:



**Intersection Types** 



New Street Connections



**Business Access:** 

South of Pflaum Road to Buckeye Road



**Speed Limit:** 

45 mph or 35 mph

















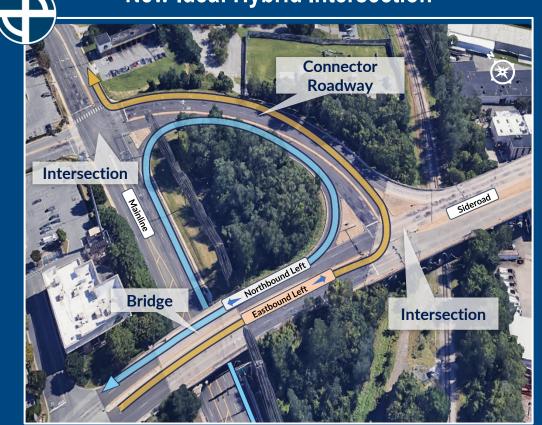
# **Intersection Types**

**New Idea: Hybrid Intersection** 



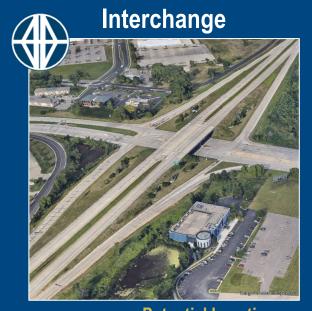
#### **Potential Locations:**

Buckeye Road, Pflaum Road, Broadway, Voges Road



#### **Potential Locations:**

Milwaukee Street, Cottage Grove Road, Buckeye Road, Pflaum Road, Broadway, Voges Road



## **Potential Locations:**

Milwaukee Street. Cottage Grove Road, US 12/18 (Beltline)





















# **Business Access Options**





**Direct Business Driveways** 

Frontage Roads













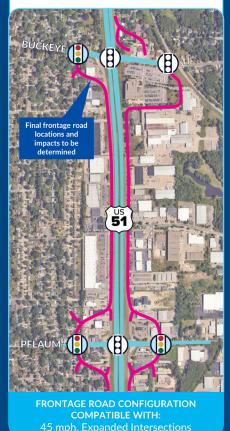




# Frontage Road Options: Pflaum to Buckeye

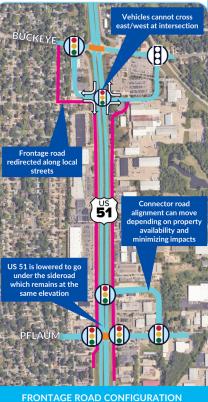
#### **Both Frontage Roads with Traditional Intersections**

 Highest impacts to surrounding area to provide adequate intersection spacing



#### **Both Frontage Roads with Hybrid Intersections**

 Reduced frontage road impacts but hybrid intersections still have some impacts

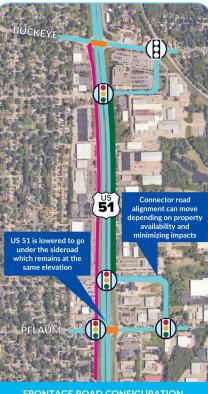


**COMPATIBLE WITH:** 

45 mph. Improved Frontage

#### **Only West Frontage Road**

East frontage road removed and replaced by direct driveway access to US 51



FRONTAGE ROAD CONFIGURATION **COMPATIBLE WITH:** 

Improved Frontage, Direct Access

#### **No Frontage Roads**

 Both frontage roads are removed and replaced with direct driveway access to US 51



FRONTAGE ROAD CONFIGURATION **COMPATIBLE WITH:** Direct Access, Wide Boulevard

LEGEND:





Improve existing signal



























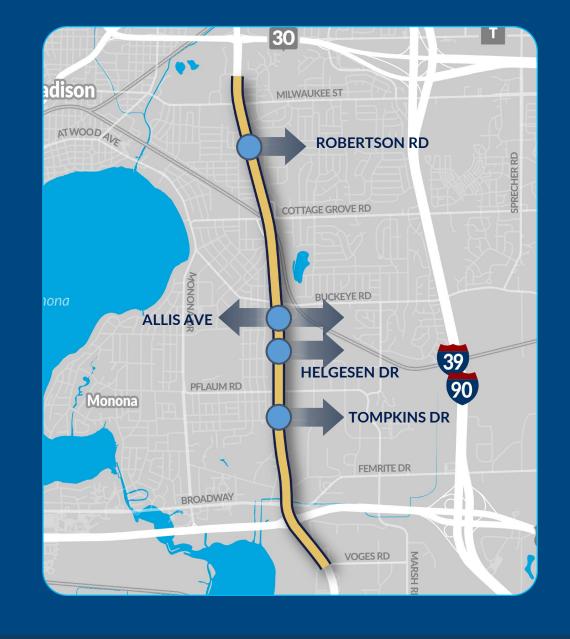


# **New Street Connections**

Some corridor concepts allow the possibility of new street connections with local roads to improve access and offer more crossing opportunities.

Potential connection at:

Robertson Rd, Allis Ave, Helgesen Dr, and Tompkins Dr



















## **Corridor Conceptual Alternatives**

#### **No Build Option**

No improvements beyond routine maintenance.



Cross section from Pflaum Road to Buckeye Road

SPEED LIMIT	FRONTAGE ROAD (IN AREA OF BUCKEYE & PFLAUM ROADS)	NEW INTERSECTIONS	DRIVEWAYS ONTO US 51
Varies between 45 mph and 55 mph	Both Sides	None	None

#### Alt 1: 45 mph

Maintains 45 mph speeds compatible with hybrid intersections that improve east/west crossing.



Cross	section	from	Dflaum	Road to	Ruckey	A Road
CIUSS:	SECTION		rnaum	Roau to	DUCKEY	e Roau

SPEED LIMIT FRONTAGE ROAD (IN AREA OF BUCKEYE & PFLAUM ROADS)		NEW INTERSECTIONS	DRIVEWAYS ONTO US 51
45 mph	Both Sides	None	None

#### **Alt 2: Expanded Intersections**

Intersection delay is reduced by adding turn lanes and spacing to frontage road improved, but the footprint is large.



SPEED LIMIT	FRONTAGE ROAD (IN AREA OF BUCKEYE & PFLAUM ROADS)	NEW INTERSECTIONS	DRIVEWAYS ONTO US 51
35 mph north of Beltline, 45 mph south of Beltline	Both Sides	None	None

#### **Alt 3: Improved Frontage**

Hybrid intersections minimize the impact of keeping frontage roads.



**Cross section from Pflaum Road to Buckeye Road** 

	SPEED LIMIT	FRONTAGE ROAD (IN AREA OF BUCKEYE & PFLAUM ROADS)	NEW INTERSECTIONS	DRIVEWAYS ONTO US 51
	35 mph north of Beltline, 45 mph south of Beltline	Both sides or west only	1 Helgesen Drive	0-14

#### **Alt 4: Direct Access**

Driveways allowed directly onto US 51 improving access.



Cross section from Pflaum Road to Buckeye Road

SPEED LIMIT	FRONTAGE ROAD (IN AREA OF BUCKEYE & PFLAUM ROADS)	NEW INTERSECTIONS	DRIVEWAYS ONTO US 51
35 mph	West only or none	3 Tompkins Drive Helgesen Drive Robertson Road	14-73

#### Alt 5: Wide Boulevard

Moves US 51 to replace the existing frontage road system and connects business driveways directly onto US 51.



Cross section from Pflaum Road to Buckeye Road

SPEED LIMIT	FRONTAGE ROAD (IN AREA OF BUCKEYE & PFLAUM ROADS)	NEW INTERSECTIONS	DRIVEWAYS ONTO US 51
35 mph	None	4 Tompkins Drive Helgesen Drive Allis Avenue Robertson Road	41-73













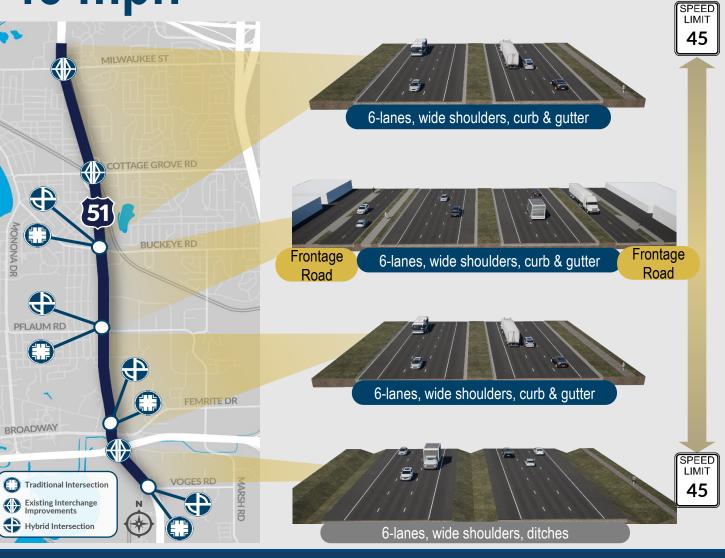






Conceptual Alt 1:

45 mph



- What we like
  - Fastest north-south travel
  - Compatible with traditional or hybrid intersections
- Limitations
  - Barriers to east-west crossing
  - Higher speed could increase crash severity
  - No new connectivity options

















# **Conceptual Alt 2: Expanded Intersections** SPEED LIMIT 35 6-lanes, narrow shoulders, curb & gutter Frontage 6-lanes, narrow shoulders, curb & gutter Road 6-lanes, narrow shoulders, curb & gutter SPEED LIMIT 45

- What we like
  - Lower crash severity
  - Familiar intersection types
- Limitations
  - Large intersections
  - Frontage road intersection challenges
  - No new connectivity options













6-lanes, wide shoulders, ditches





# **Conceptual Alt 3:** Improved Frontage SPEED LIMIT 35 6-lanes, narrow shoulders, curb & gutter Frontage Road 6-lanes, narrow shoulders, curb & gutter 6-lanes, narrow shoulders, curb & gutter SPEED BROADWAY LIMIT 45

- What we like
  - Lower crash severity
  - Safety and operational advantages to hybrid intersections
- Limitations
  - Indirection for some turning traffic
  - Few new connectivity options



Existing Interchange











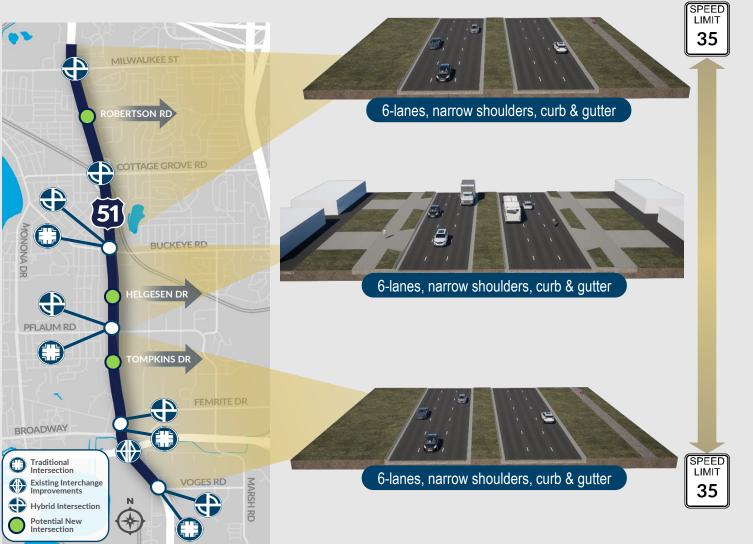
6-lanes, wide shoulders, ditches





## **Conceptual Alt 4:**

## **Direct Access**



- What we like
  - Lower crash severity
  - Better connectivity to neighborhoods and businesses
- Limitations
  - Conflicts at new intersections and driveways











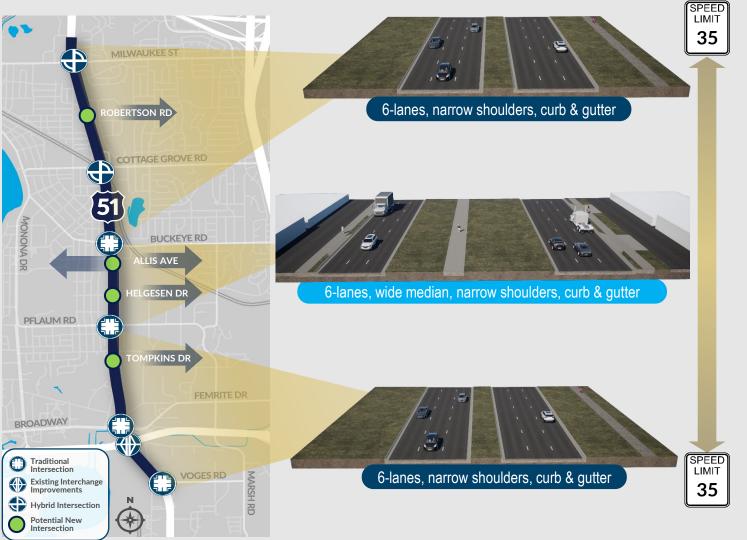






## **Conceptual Alt 5:**

# Wide Boulevard



- What we like
  - Green space
  - Urban feel
  - Better connectivity to neighborhoods and businesses
- Limitations
  - Conflicts at new intersections and driveways











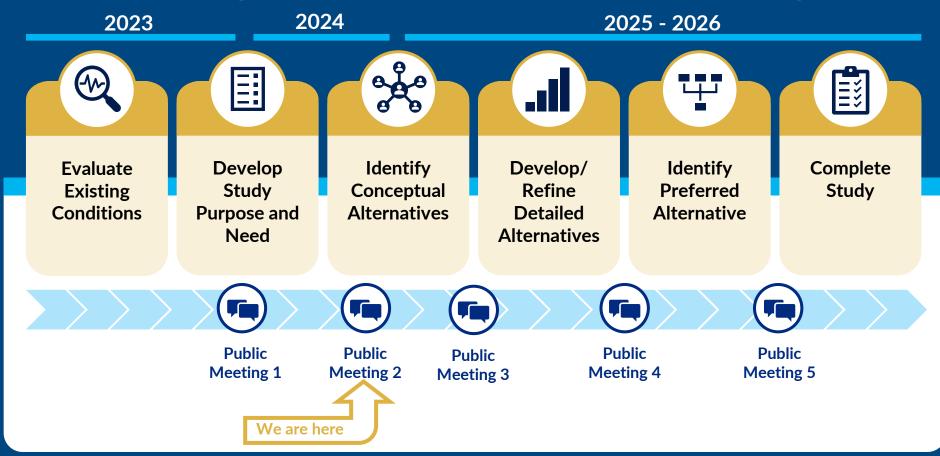






## **Next Steps**

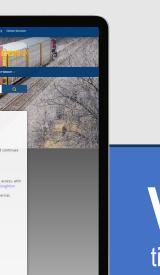
We are early in a multi-year process. Your input will steer the remainder of the study.







## Who should I contact?



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# Visit:

tinyurl.com/US51SouthStudy



Or scan this QR code



















# US 51 (Stoughton Road) South Corridor Study Thank you!