





I-39/90/94 Corridor Study

Public Involvement Meeting #3

January 30, 2024 – Virtual
January 31, 2024 – Wisconsin Dells
February 1, 2024 – Madison



Presentation topics

- 1. Study overview
- 2. Study purpose and corridor needs
- 3. Remaining interstate mainline alternatives
- 4. Remaining interchange alternatives
- 5. Flooding options
- 6. Noise analysis
- 7. Study schedule and next steps
- 8. Contact information



















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Question and answer session will follow the presentation























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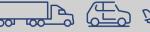
















Study overview

- What is an environmental study?
- 67 miles of I-39/90/94
 - From US 12/18 to US 12/WIS 16
 - Spans Dane, Columbia, Sauk and Juneau counties
- Does **not** include:
 - Wisconsin River Bridges Project
 - WIS 60 interchange reconstruction
- Separate project:
 - County V
- Limited to on- and near-alignment alternatives (no bypass)











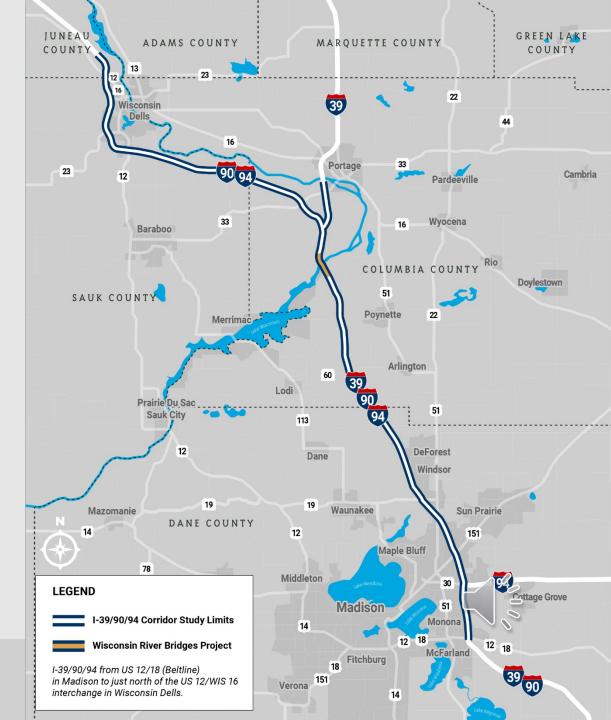












Study purpose and corridor needs

Study purpose:

Address existing and future traffic demands, safety issues, aging and outdated corridor infrastructure, and corridor resiliency.



























Study purpose and corridor needs

Corridor needs:





Traffic volumes along the study corridor are increasing, causing vehicle congestion and backups on the Interstate and decreasing travel time reliability

SAFETY



Crash rates along the study corridor, especially at interchanges, exceed the statewide average crash rate





















Study purpose and corridor needs

Corridor needs:

PAVEMENT



Pavement maintenance projects are anticipated in 26 of the next 30 years somewhere in the study corridor

BRIDGES



84 of 113 structures in the study corridor will be over 50 years old by 2030 and many bridges do not meet current design standards

FLOODING



Floods causing Interstate **closures** impact corridor resilience and disrupt vital commerce and emergency services connections























Remaining alternatives

- WisDOT carrying alternatives forward based on
 - Purpose and need factors
 - Environmental impacts
 - Public feedback
 - Public Involvement Meetings (PIMs)
 - Interchange specific meetings
 - Advisory committee meetings
 - Online comments
 - Feedback from municipalities
 - Cost
- All alternatives presented at previous PIMs available on study website





















Remaining alternatives

- We want your feedback!
- Surveys available to fill out in person or online
- Feedback items:
 - Comments/preferences on remaining alternatives
 - Comments/preferences on intersection control























Remaining interstate mainline alternatives

- All remaining mainline alternatives are "modernization" alternatives
- What is modernization?
 - Upgrade infrastructure to meet current state and federal standards whenever possible
 - Examples include
 - Consider safety first
 - Replace deteriorating pavement, bridges and culverts
 - Move ramp movements to the right
 - Increase on- and off-ramp lengths
 - Raise bridge clearances
 - Expand road shoulder widths

- Improve horizontal and vertical roadway curves
- Evaluate lighting needs
- Update roadway signage
- Consider opportunities to add bicycle/pedestrian facilities
- Add noise walls, where warranted and feasible
- Expand capacity, where needed





















Remaining interstate mainline alternatives

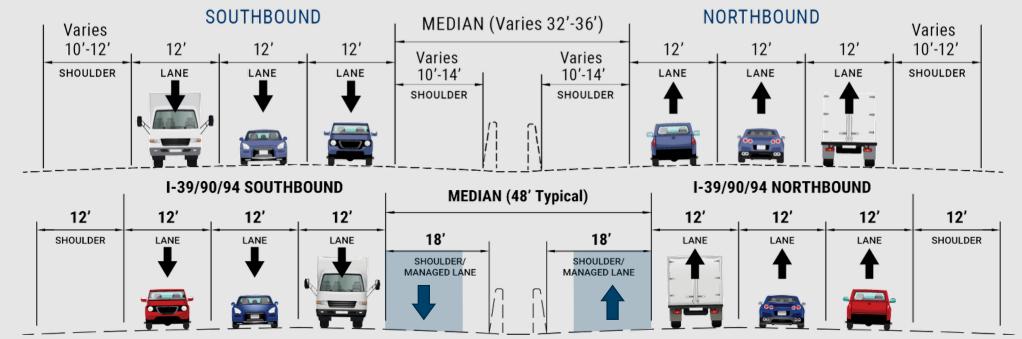
I-39/90/94 from US 12/18 to WIS 19

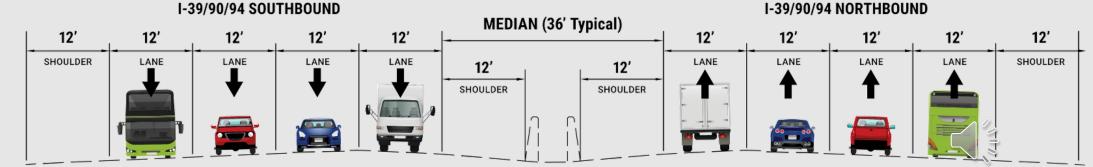
Existing

Hybrid

Modernization

Modernization Plus Added General Purpose Lanes

















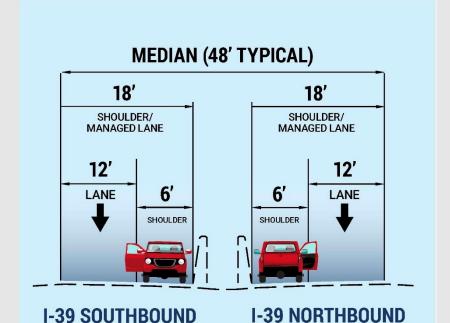






Remaining interstate mainline alternatives **Pros / Cons**

- Two remaining alternatives are identical north of WIS 19
- Remaining alternatives from US 12/18 to WIS 19
 - Infrastructure width
 - Cost
 - Safety
 - Other considerations
 - Traffic demand on outside
 - Additional decision points in Modernization Hybrid
 - Managed lane availability
 - Truck percentages



Note:

A motorist stranded in the 6' shoulder will not be able to safely exit the vehicle until the managed lane is closed.















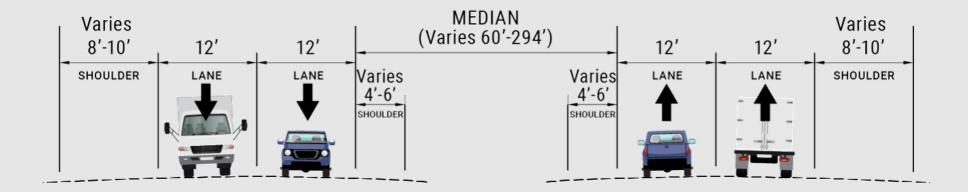




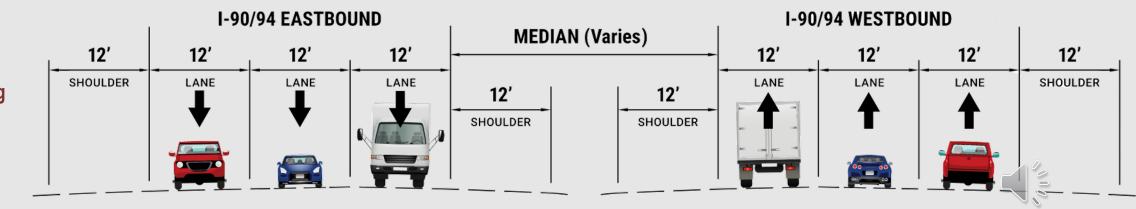
Remaining interstate mainline alternatives

I-90/94 from I-39 I-90/94 Split to US 12/WIS 16

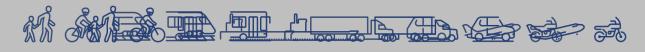
Existing



Both Remaining Alternatives









Existing Interchanges

- I-94/WIS 30
- **US** 151
- WIS 19
- County CS
- WIS 33 at I-39
- WIS 33 at I-90/94
- WIS 23
- US 12/WIS 16

- High Crossing Blvd
- US 51
- County V
- WIS 60
- I-39 I-90/94 Split
- Cascade Mountain Rd
- US 12
- WIS 13

Potential New Interchanges

Hoepker Rd

Milwaukee Street











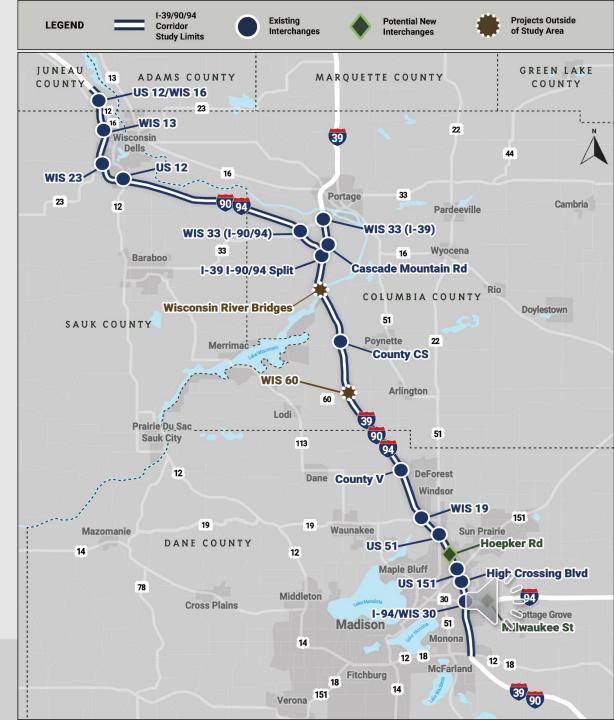












I-94/WIS 30 Interchange

Full Modernization #2

- Removes all left-hand entrance and exit ramps
- Less complicated geometry
- Weave movements are reduced
- Ramp speeds closer to freeway speeds



















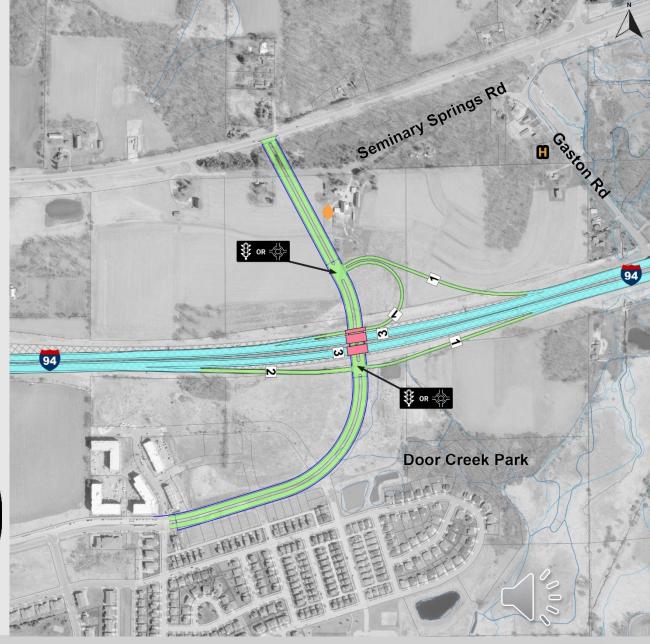




Milwaukee Street Interchange **Partial Cloverleaf**

- Provides added weave length
- Dependent upon local funding
- Roundabout vs Signal



















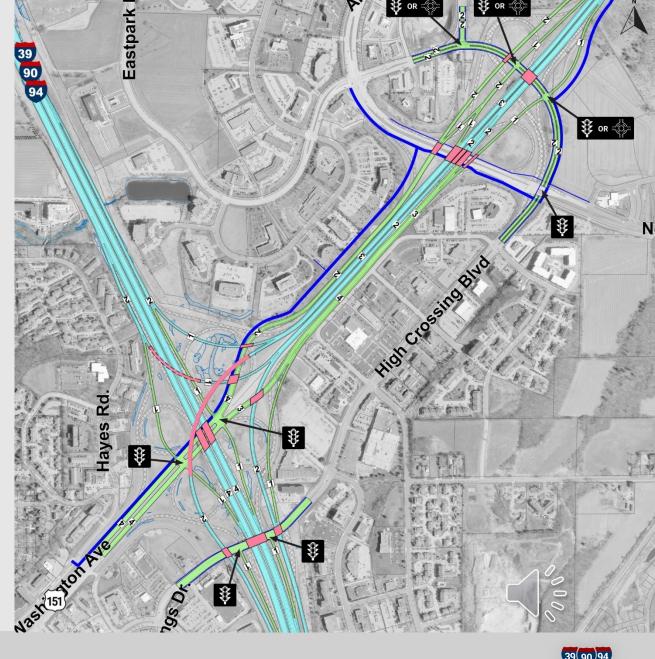






US 151/High Crossing IC

- Freeway to freeway free-flow movements
- Embedded diamond interchange at US 151
- Half-diamond interchange at High Crossing
- Moves Nelson Road/American Parkway IC
- Better addresses travel demands
- Relatively low environmental impacts
- Pedestrian and bicycle path along US 151



















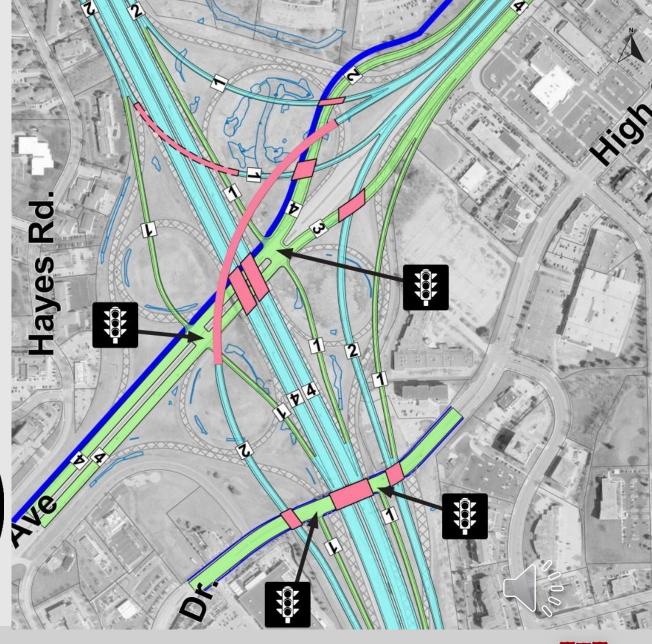




US 151/High Crossing IC

- Intersection Control
 - Standard Diamond with Signals →
 - Single Point Urban Interchange (SPUI)





















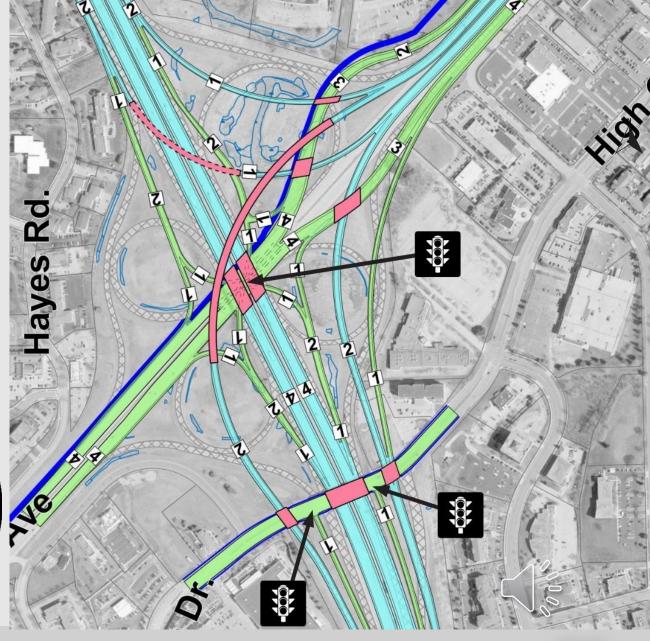




US 151/High Crossing IC

- Intersection Control
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 - Single Point Urban Interchange (SPUI) →





















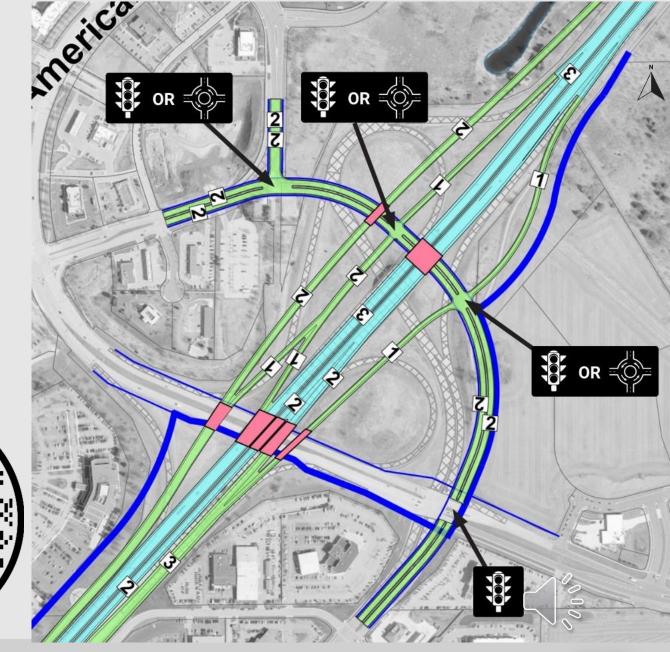




US 151/High Crossing IC

- Intersection Control at Eastpark Blvd
 - Standard Diamond →
 - Signals vs Roundabouts























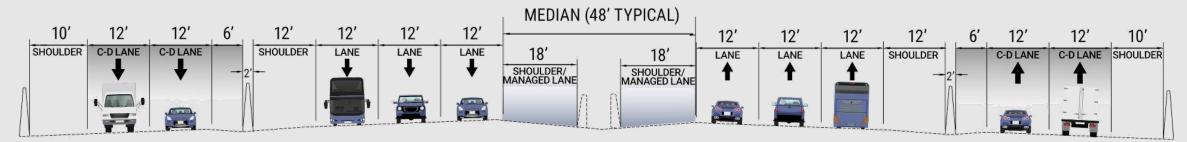


Remaining alternatives

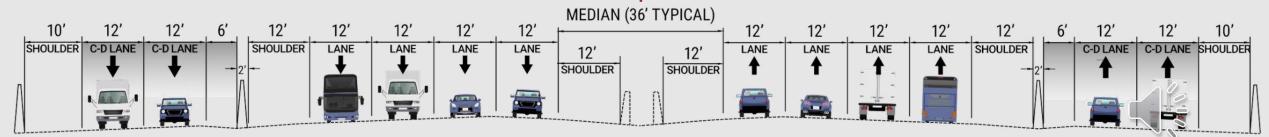
Collector-Distributor (C-D) Lanes

- I-39/90/94 from I-94/WIS 30 interchange to US 151 interchange
- US 151 from I-39/90/94 to northeast of Nelson Road/Eastpark Boulevard interchange

Modernization Hybrid



Modernization Plus Added General Purpose Lanes

















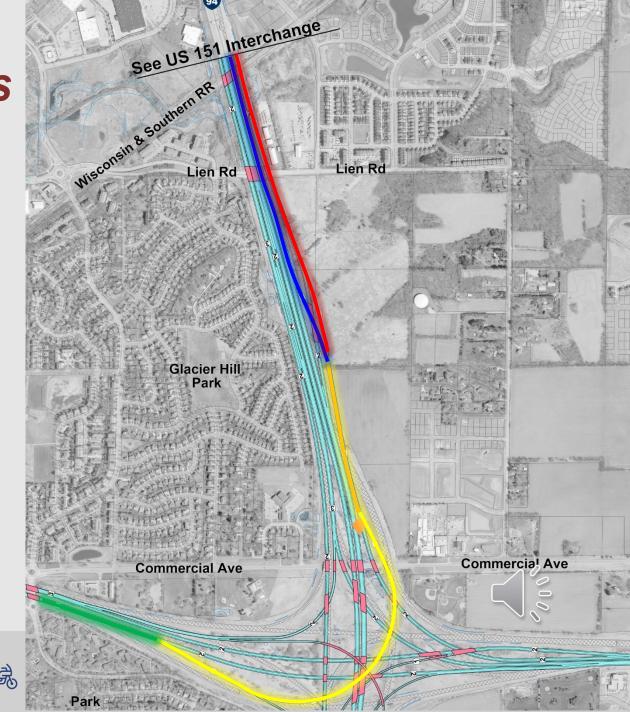




Remaining alternatives

Collector-Distributor (C-D) Lanes

• Eastbound WIS 30 to northbound I-39/90/94 or US 151 interchange



















Remaining alternatives Collector-Distributor (C-D) Lanes

• Northbound US 151 from I-39/90/94 to Nelson Road/Eastpark Boulevard interchange





















Remaining alternatives Collector-Distributor (C-D) Lanes

 Southbound US 151 from Nelson Road/Eastpark Boulevard interchange to I-39/90/94















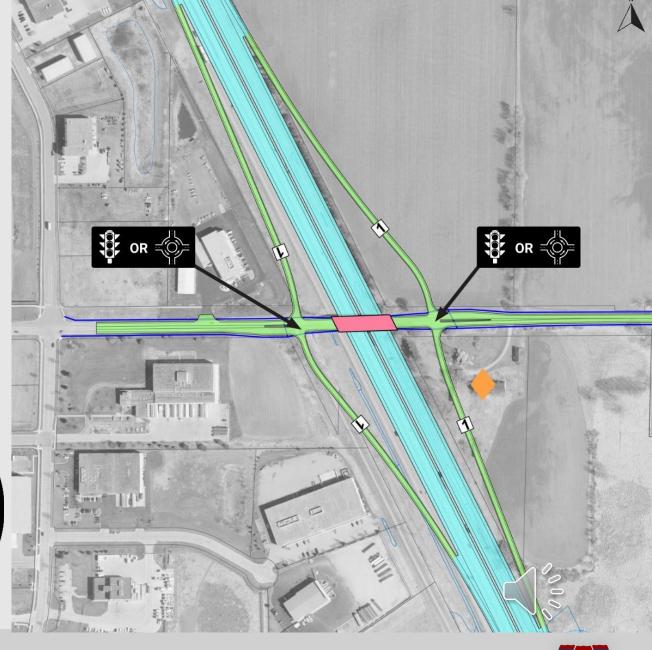




Hoepker Road Interchange **Shifted Diamond**

- Freeway shifted to east to allow for ramps
- Requires significantly less real estate acquisition
- Does require a residential relocation
- Dependent upon local funding
- Signals vs Roundabouts























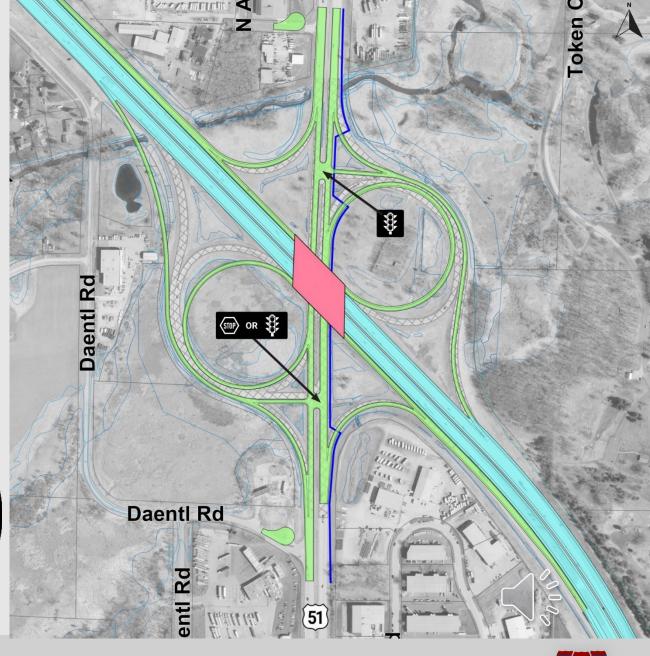


US 51 Interchange

Partial Cloverleaf

- On-ramps merge together prior to freeway
- Removes US 51 access to North American Lane and Daentl Road
- Better addresses travel demands
- Significantly less costly
- Stop Sign vs Signal

























WIS 19 Interchange

U-Ramp

- Consolidates intersections
- U-Ramp
- Removes signals
- Increases capacity to six lanes
- Best addresses safety























County CS Interchange

- **Diamond**
- Increases ramp lengths
- Improves safety
- Less stream relocation than Partial Cloverleaf

Stop Signs vs Roundabouts





















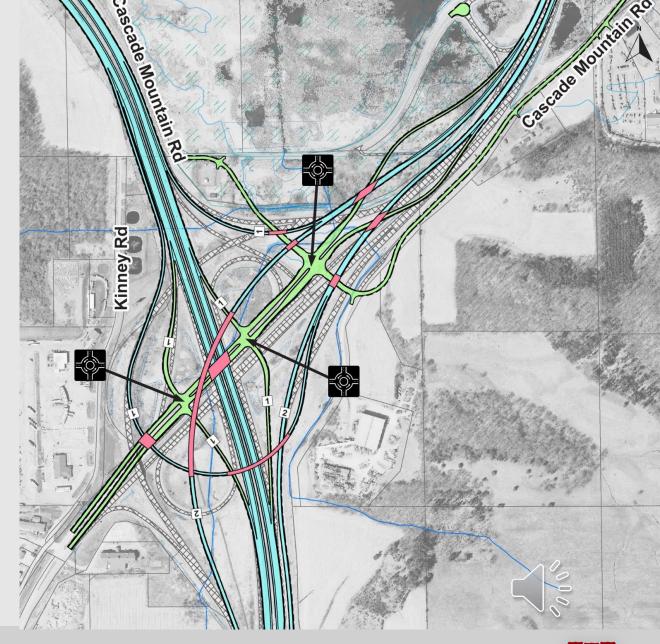




I-39 I-90/94 Split Interchange

Low Build

- Provides access to Cascade Mountain through WIS 78
- Removes Cascade Mountain interchange
- All system-to-system movements are righthand ramps
- Not as tall or costly as other alternative









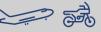














WIS 33 Interchange at I-39

Diamond

- Fewer impacts to Pine Island State Wildlife Area
- Raises the elevation of the interchange
- Stop Signs vs Roundabouts























WIS 33 Interchange at I-90/94 **Partial Cloverleaf**

- Raises the elevation of the interchange
- Lengthened on- and off-ramps
- Fewer environmental impacts than other alternative

• Stop Signs vs Roundabouts





















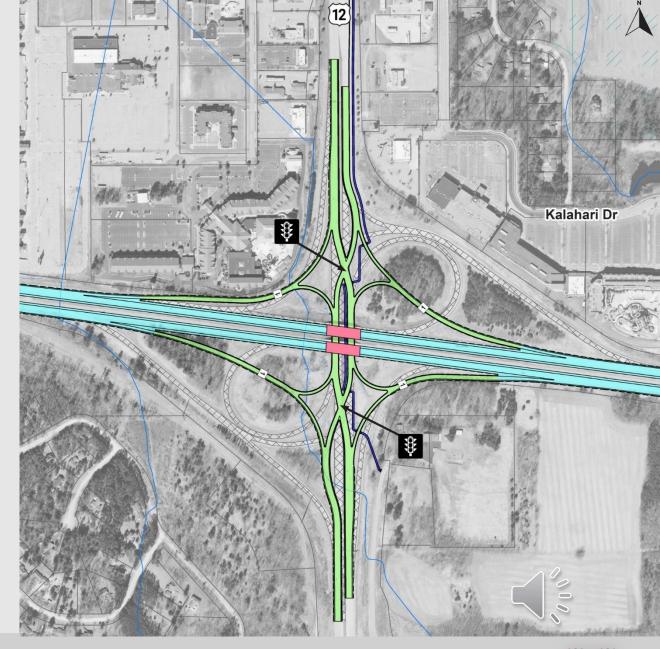




US 12 Interchange

Diverging Diamond

- Provides free-flow left turns to entrance ramps
- Ramp alignments improve sight distances
- Addresses safety better than other alternatives
- Slightly lower environmental impact than other alternatives























WIS 23 Interchange

Diamond

- Similar footprint to existing
- Improved ramp alignments
- Minimal environmental impacts
- Adequately manages traffic demands





















WIS 13 Interchange

Split Diamond

- Provides direct freeway access to County H
- Fewer impacts than diamond alternative
- Requires three relocations
- Stop Signs vs Roundabouts























WIS 13 Interchange

Trumpet

- Similar footprint to existing interchange
- Improved ramp geometry
- No direct access to County H
- Only one relocation























US 12/WIS 16 Interchange

Diamond

- Similar footprint to existing interchange
- Better sight distance at ramps
- Protected left-turn lanes improves safety
- Keeps 60th Street intersection & improves intersection sight distance























Flooding options

- Major flood events since 2000
 - April 2001
 - June 2004
 - August 2004
- Agency coordination
 - Adjacent properties
 - Wisconsin DNR
 - US Fish & Wildlife
 - FEMA
 - Opportunity to review floodplain analysis
 - US Army Corps of Engineers
 - Environmental Protection Agency



















• June 2008

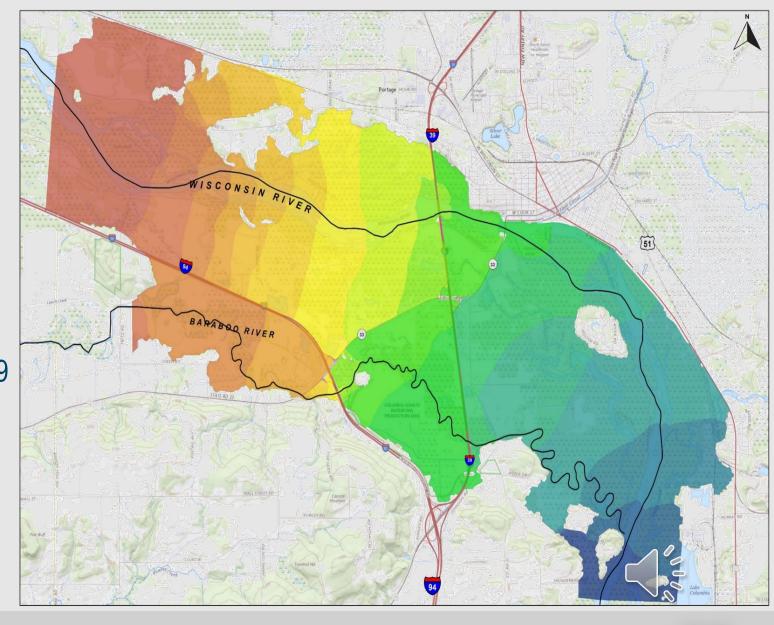
• August 2018





Flooding options

- Mitigation goal is to minimize and balance flood impacts to surrounding properties
- Types of mitigation
 - Raise roadway elevation
 - New and/or wider bridges on I-39

















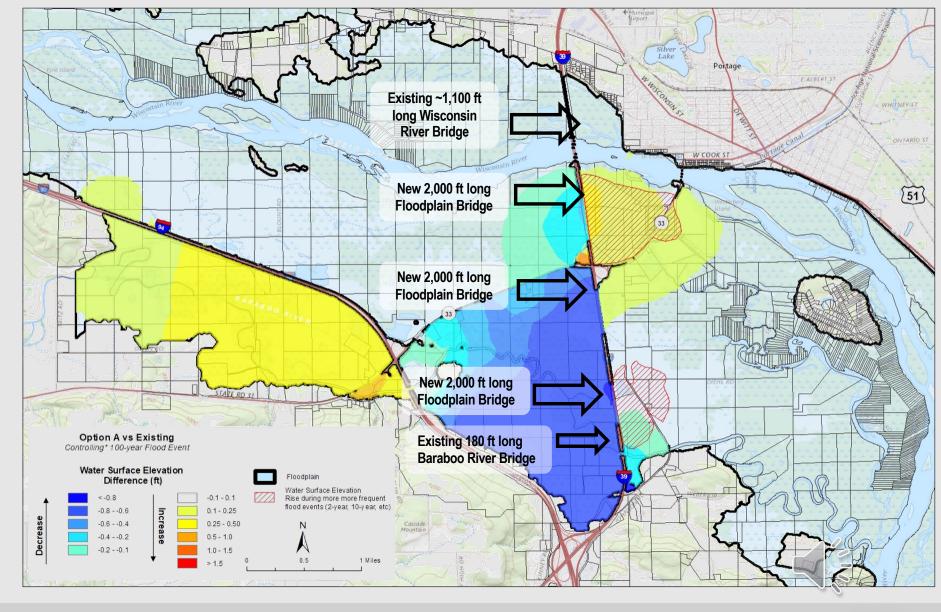




Flooding options

Option A

- Three 2,000-foot floodplain bridges on I-39
- Raise I-39 and 1-90/94



















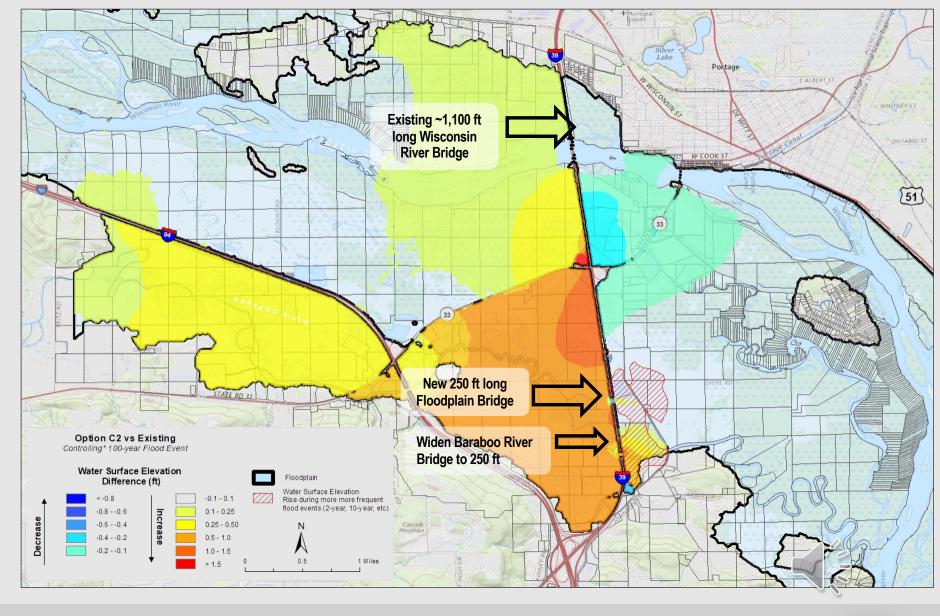




Flooding options

Option C2

- 250-foot floodplain bridge and widen **Baraboo River** Bridge (250 feet) on I-39
- Raise I-39 and 1-90/94



















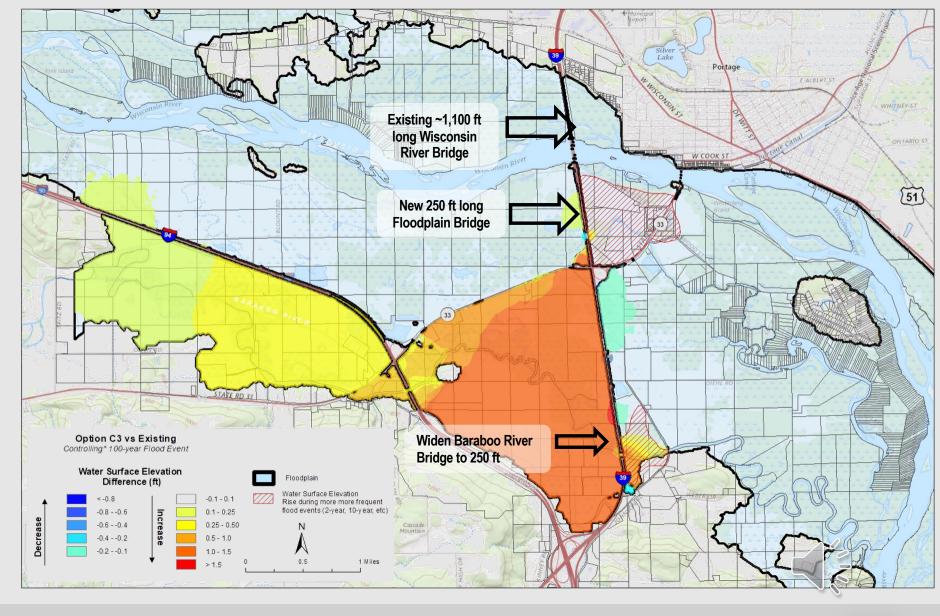




Flooding options

Option C3

- 250-foot floodplain bridge and widen **Baraboo River** Bridge (250 feet) on I-39
- Raise I-39 and 1-90/94



















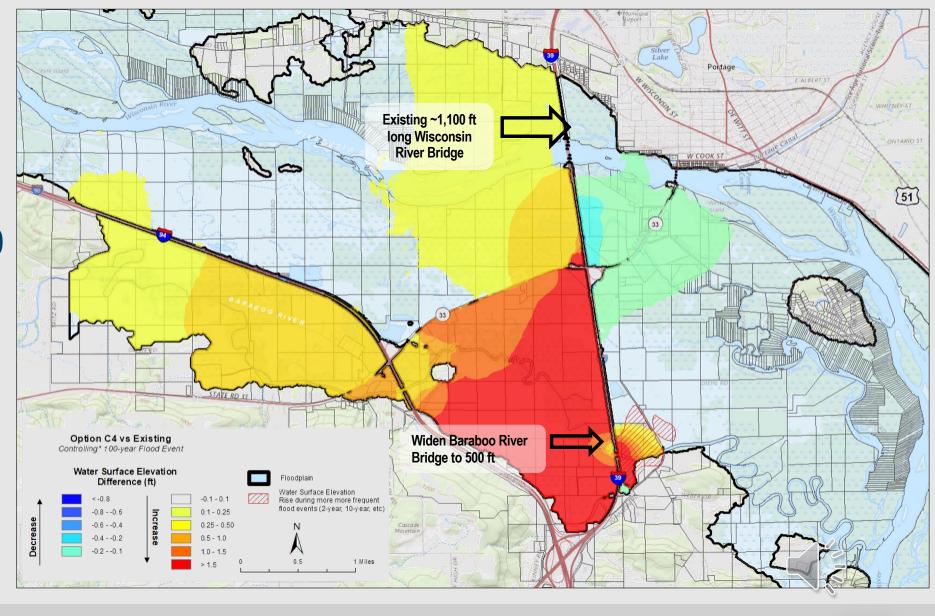




Flooding options

Option C4

- Widen Baraboo River Bridge to 500 feet on I-39
- Raise I-39 and I-90/94

















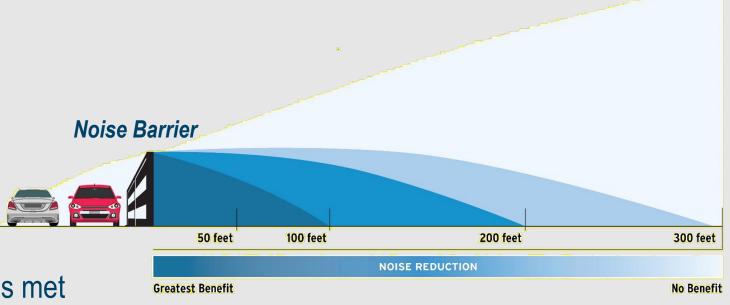






Noise analysis

- Traffic Noise Model (TNM) developed
- Impacted receptors analyzed
- Reasonable and feasible determination
- Public Hearing
- Benefited receptors vote
- Noise barriers constructed if all conditions met























Study schedule and next steps

2022 2023 2024 AUG
OCT
OCT
OCT
JAN
APR
MAY
JULY
AUG
SEPT
OCT
DEC **Public Input** September 2022 Spring 2023 Summer 2024 **Opportunities Public Involvement Public Involvement Public Hearing** Meeting No. 2 Meeting No. 1 Spring 2024 **Draft Environmental Impact Statement** Winter 2024 Fall 2024 **Public Involvement Final Environmental** Meeting No. 3 **Impact Statement**





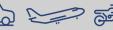














Contact information

Study Webpage







David2.Schmidt@dot.wi.gov



PHONE

(608) 246-3867



WEB

tinyurl.com/InterstateStudy





























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