

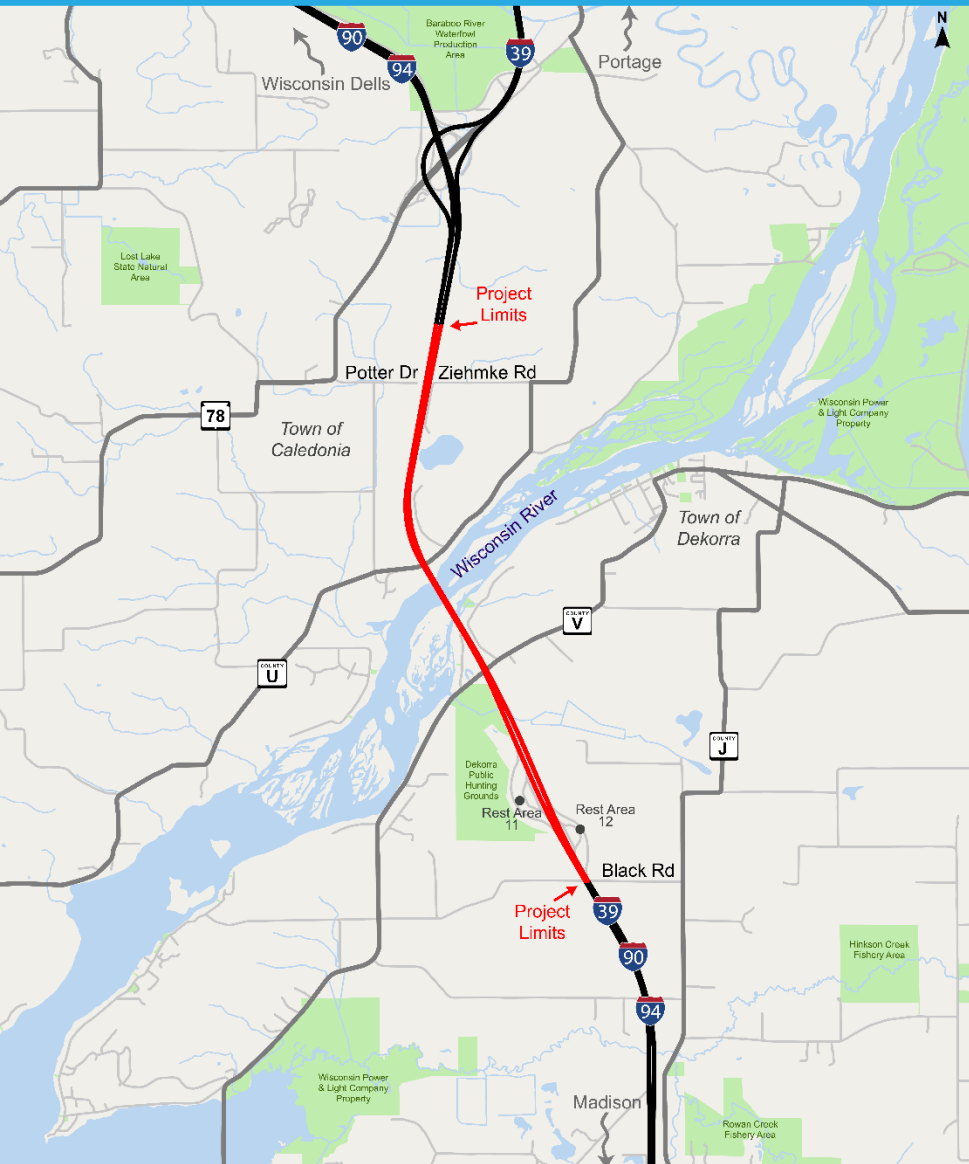
I-39/90/94 Wisconsin River Bridge Project



Public Involvement Meeting
April 18th, 2019



Project Location



Project Termini:

Black Road to south of
I-39/94 & I-39/WIS 78

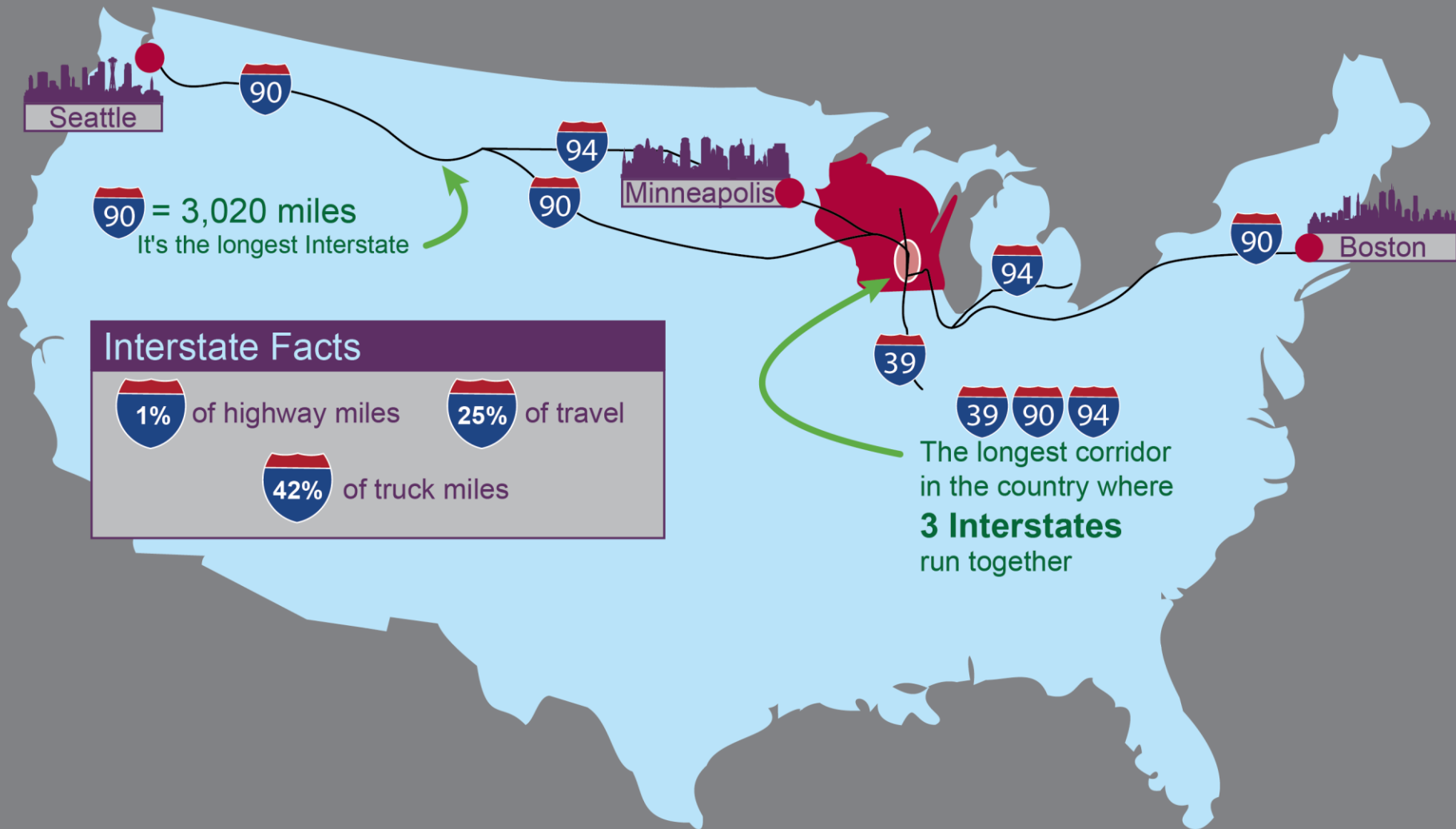
County: Columbia

Towns: Dekorra and Caledonia



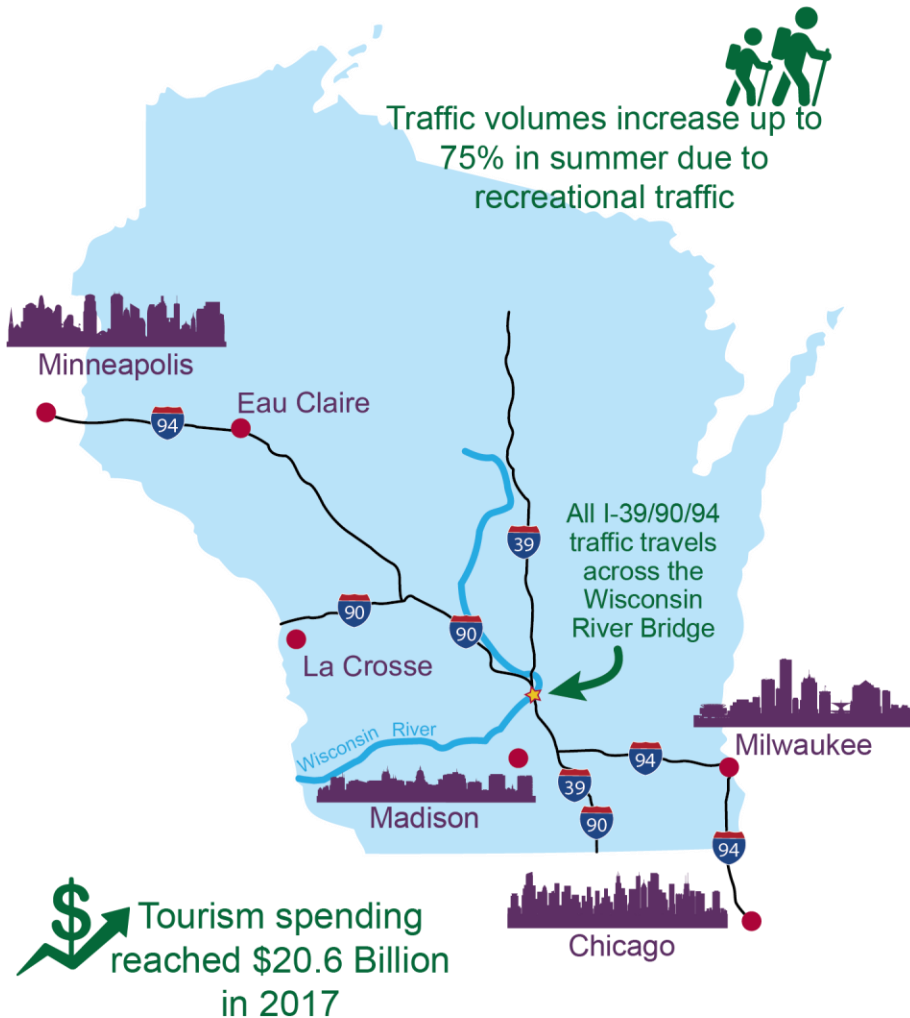
Route Importance

National Importance

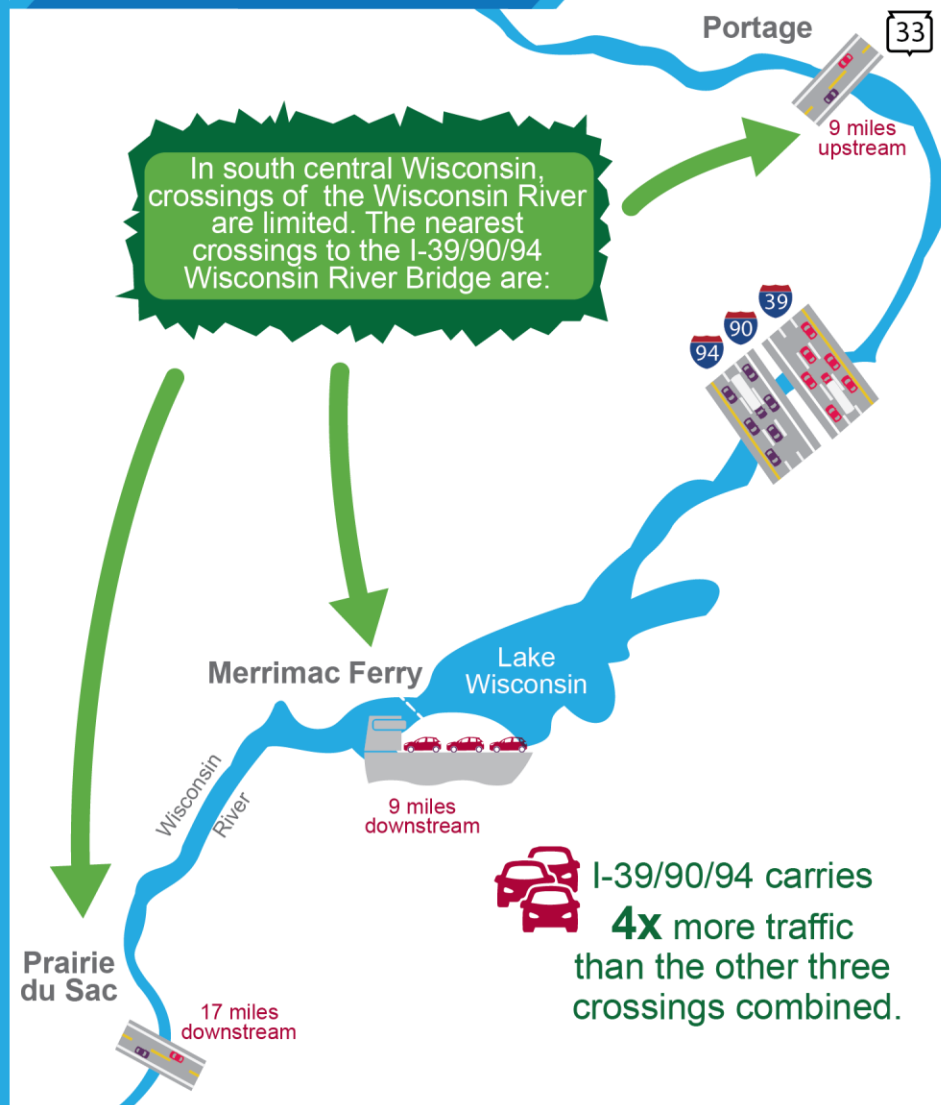


Route Importance

Regional Importance



Local Importance



≡ Purpose Statement

The purpose of the I-39/90/94 Wisconsin River Bridge Project is to **address the needs of the aging I-39/90/94 structures and maintain vehicular traffic across the Wisconsin River** in the towns of Dekorra and Caledonia located in Columbia County.

≡ Primary Need

 Condition of the Wisconsin River Bridge

≡ Secondary Needs

 Traffic Demands

 Roadway Geometrics

Primary Need of the Project

Concrete Deck

Poor condition



Concrete Deck

Poor condition



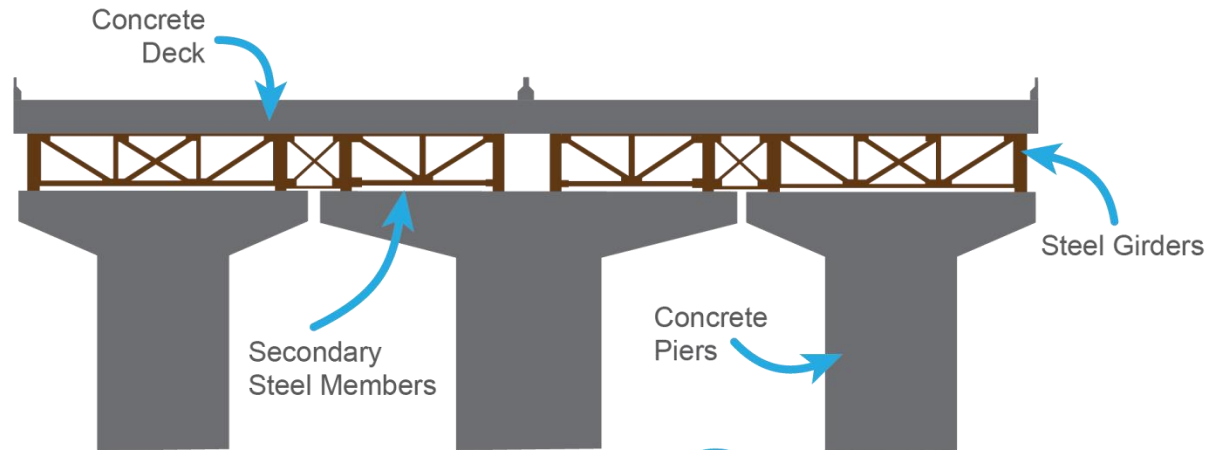
Steel Girders

Severe condition



Secondary Steel Members

Poor condition



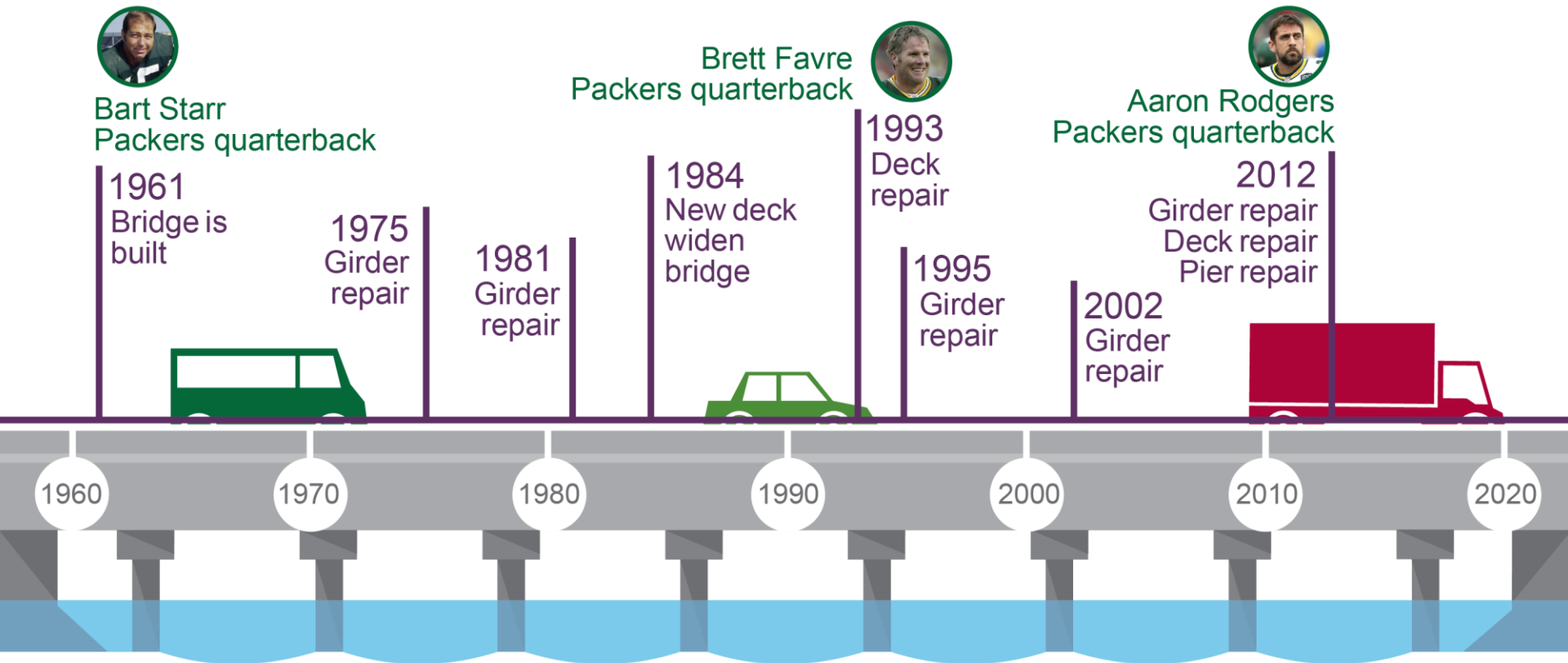
Concrete Piers

Poor condition



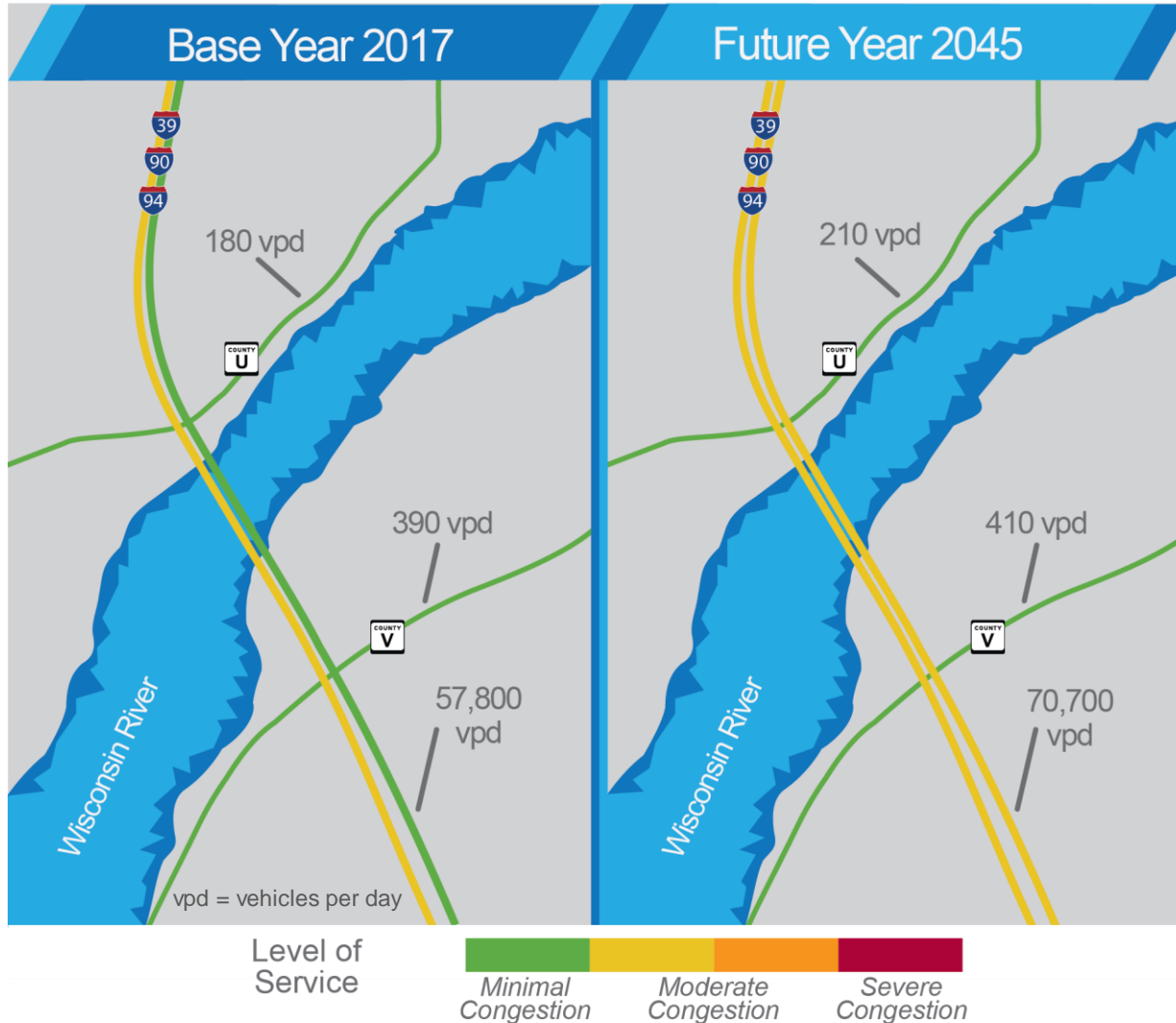
Primary Need of the Project

The bridge has been repaired 7 times in the last 58 years.



Secondary Needs of the Project

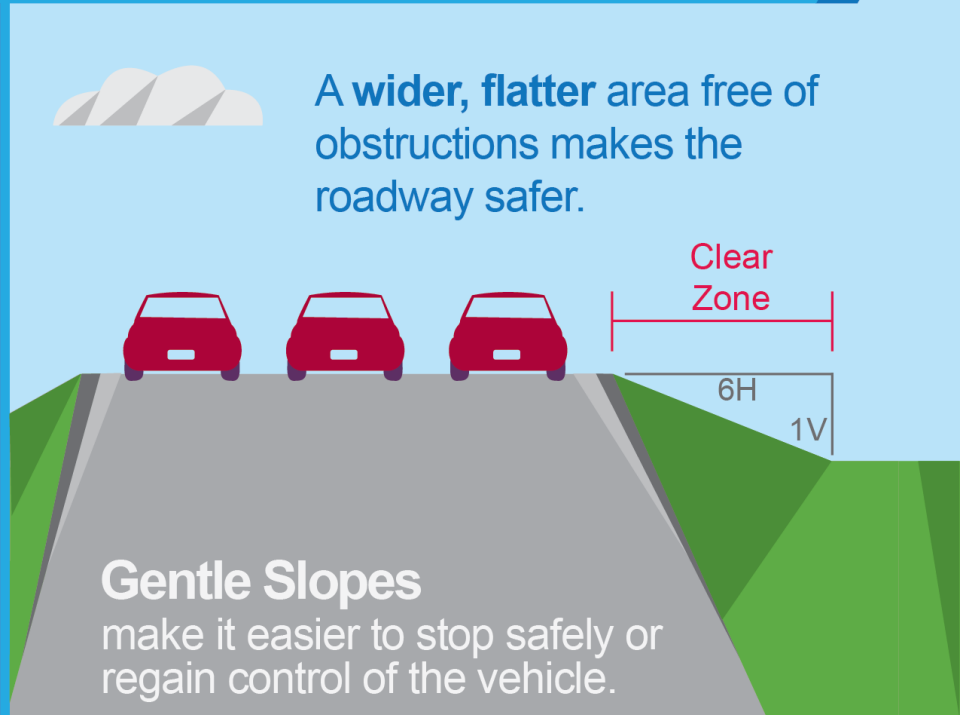
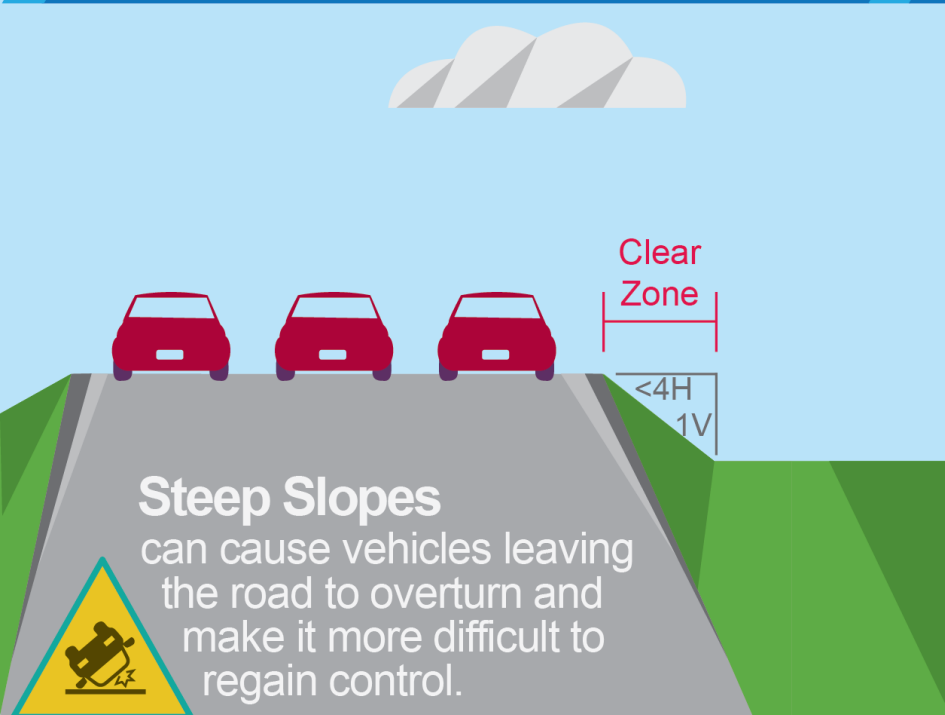
Traffic Volumes and Congestion



Secondary Needs of the Project

Existing Clear Zone I-39/90/94

Current WisDOT Clear Zone Standard



48% of crashes within the project termini were run-off-the-road crashes between 2013 and 2017



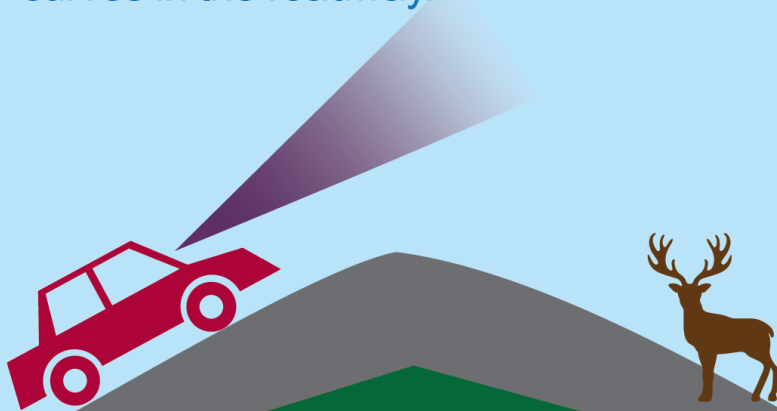
Secondary Needs of the Project

Decision Sight Distance

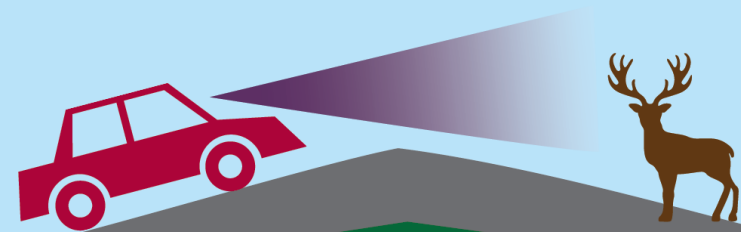
Decision sight distance is needed for a driver to:

- (1) Detect a condition in a roadway and recognize its threat
- (2) Select and complete appropriate avoidance maneuver

The driver cannot see the object on sharp curves in the roadway.



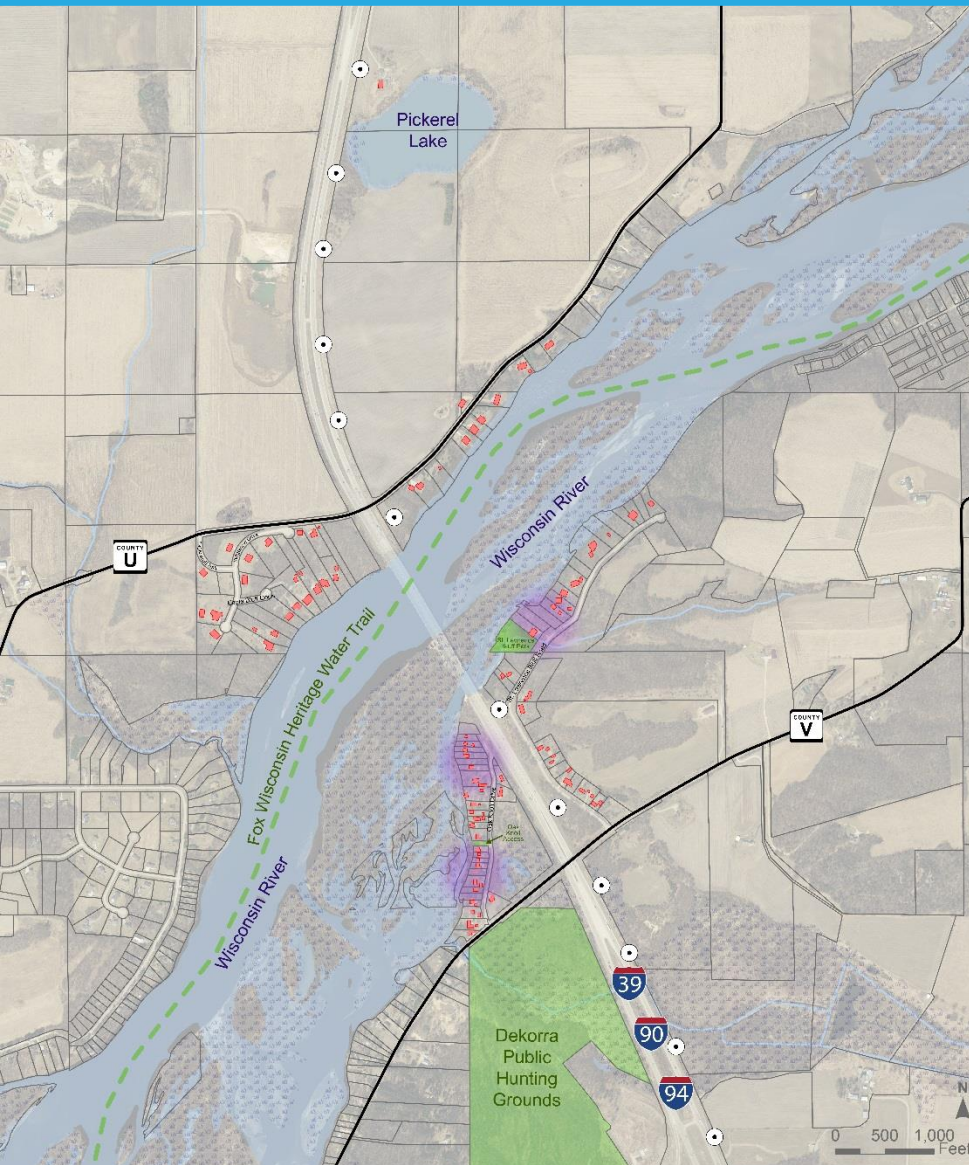
When the curve is flatter, the driver can see the object in the roadway with enough time to maneuver.



Three I-39/90/94 vertical curves in the project area do not meet decision sight distance standards



Project Area Resources



Section 4(f) – Public Lands

Land given special consideration during transportation projects

Wetlands

Identified during field surveys

Archeological Areas

Identified during field surveys

ATC Structures

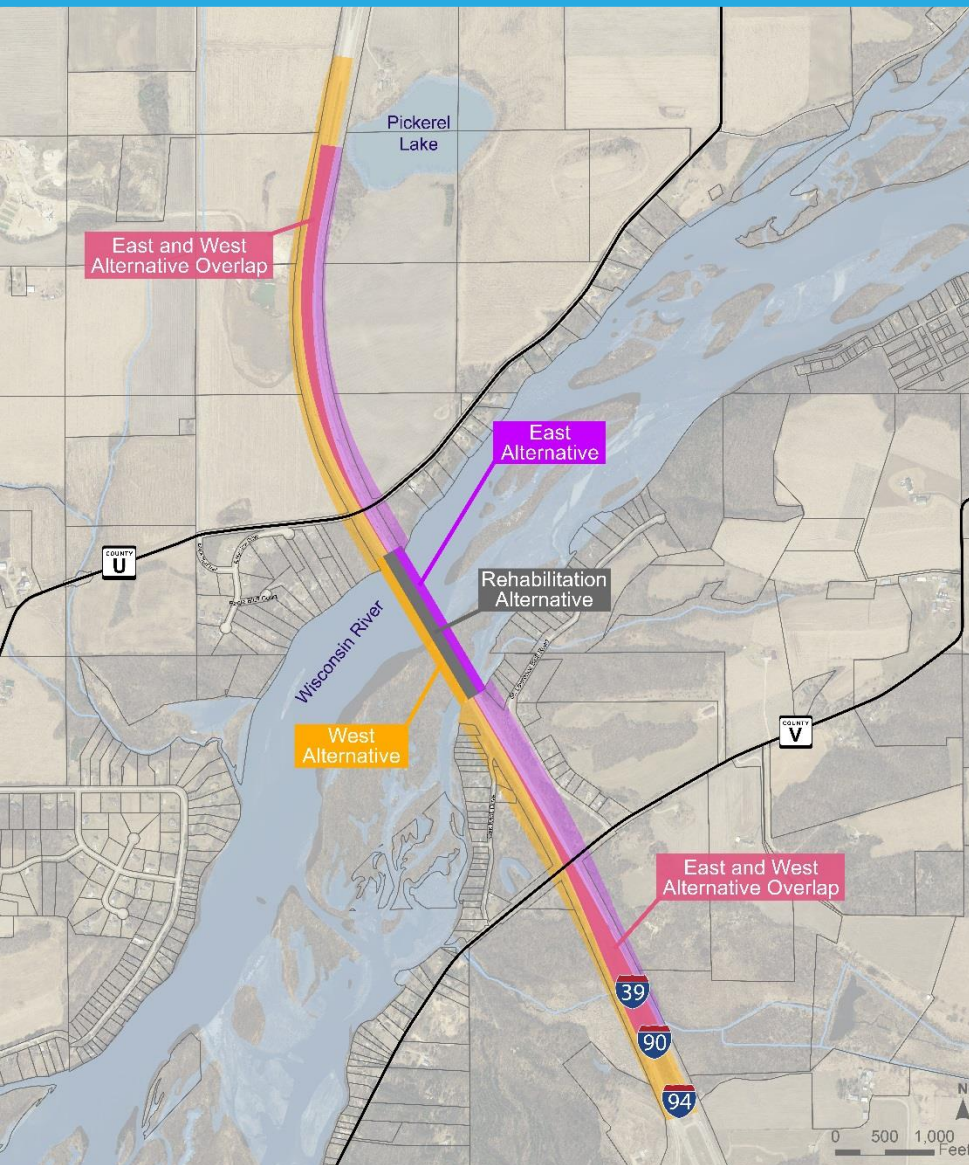
American Transmission Company power line to the east of the Interstate

Existing Buildings

Identified using aerial imagery



Preliminary Alternatives



Rehabilitation Alternative

- Repair the bridge in its current location
- Replace the concrete deck and repair steel supports

East Alternative

- Construct a new bridge just east of the existing bridge
- Shift I-39/90/94 to east to match the new bridge
- Evaluate County U and V bridges for possible replacement

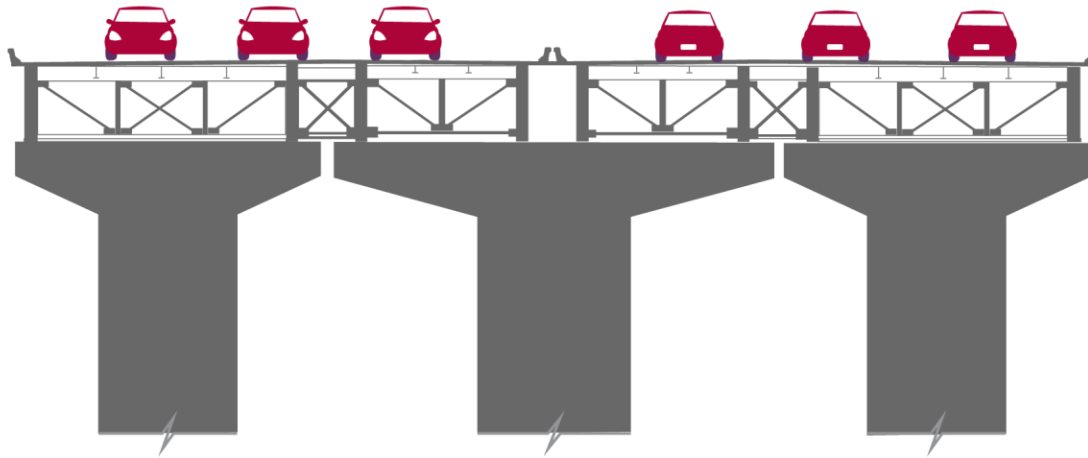
West Alternative

- Construct a new bridge just west of the existing bridge
- Shift I-39/90/94 to west to match the new bridge
- Evaluate County U and V bridges for possible replacement

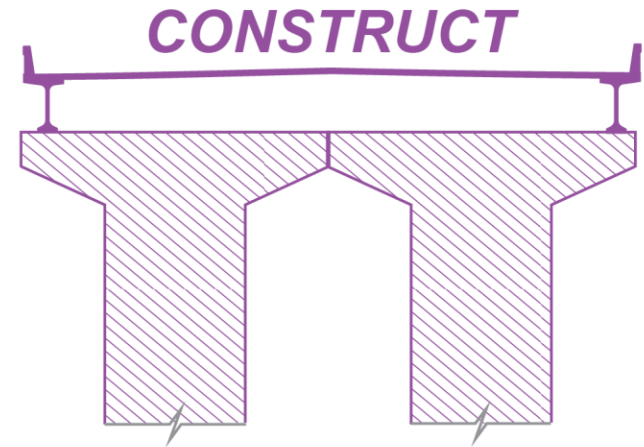
Potential Construction Staging Concept

STAGE 1

Construct new bridge to the outside



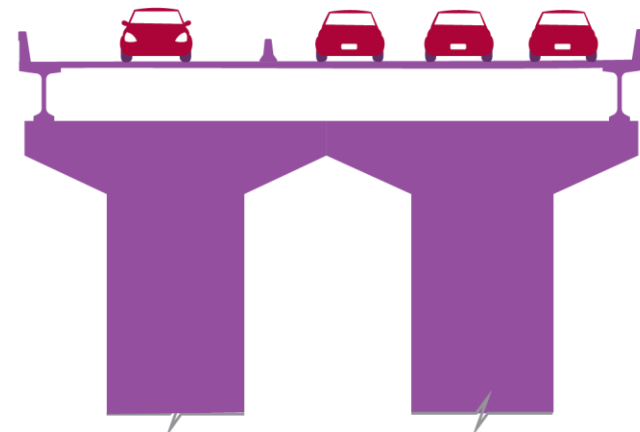
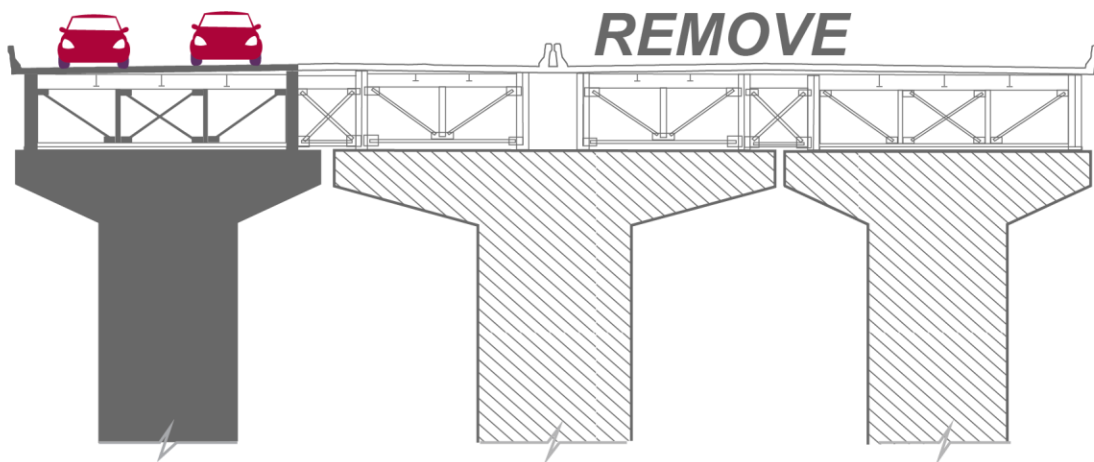
Existing WI River Bridge



Potential Construction Staging Concept

STAGE 2

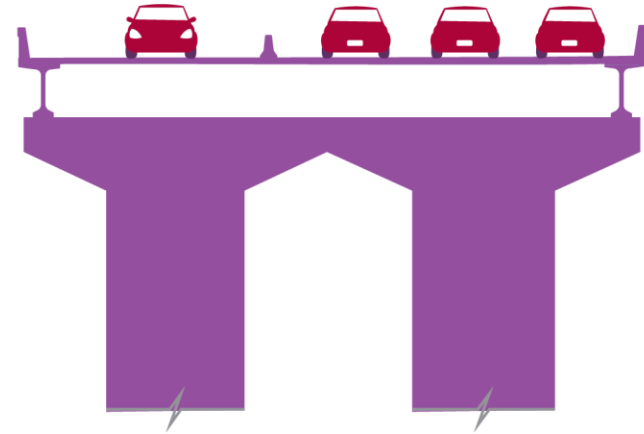
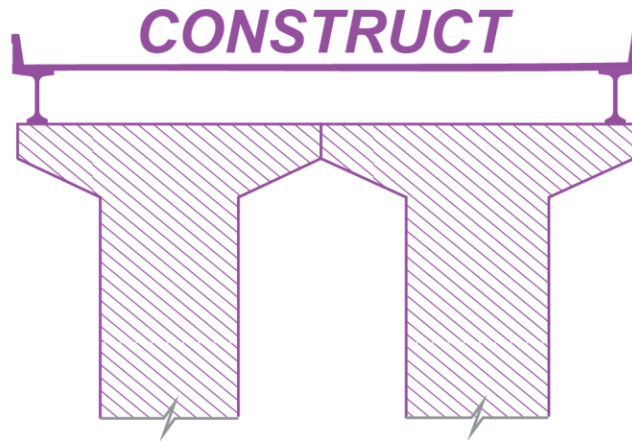
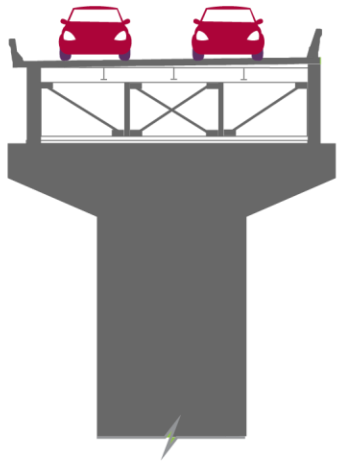
Remove two-thirds of existing bridge



Potential Construction Staging Concept

STAGE 3

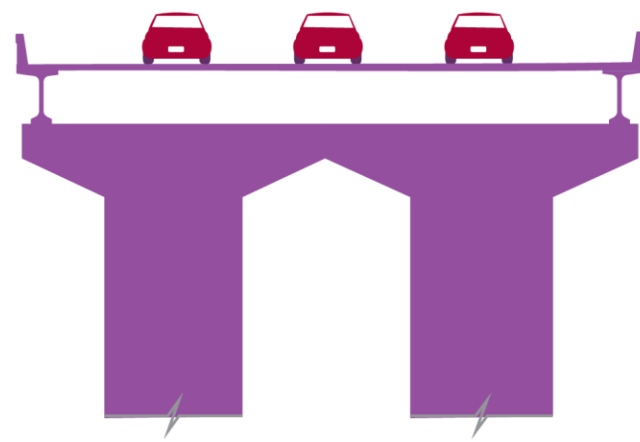
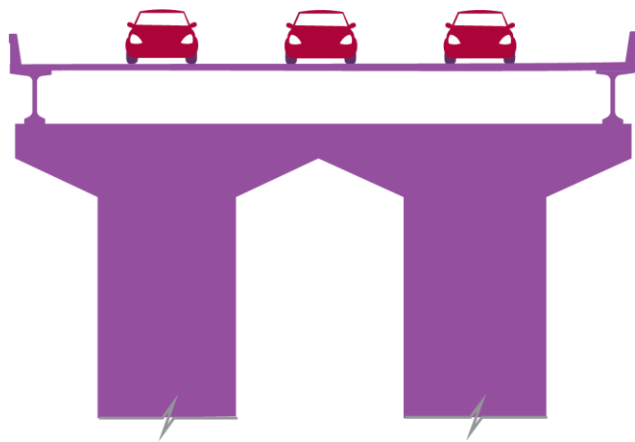
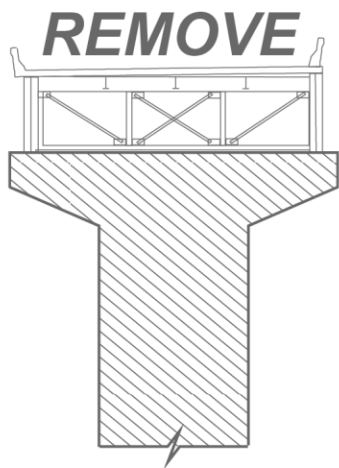
Construct new bridge in place of existing bridge



Potential Construction Staging Concept

STAGE 4

Remove remainder of the existing bridge



Project Schedule

Development of Purpose and Need	Spring 2019
Preliminary Alternatives	Spring 2019
Detailed Study Alternatives	Summer 2019
Preferred Alternative	Spring 2020
Environmental Document Complete	Fall 2020
Final Design / Real Estate Acquisition	2021 - 2023
Construction	2024 at the earliest



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Project Website

<https://wisconsindot.gov/Pages/projects/by-region/sw/i399094-bridge/default.aspx>

