

# Cobban Bridge Location Study

July 17th, 2017  
Chippewa Falls, WI



# Presentation Overview

- **Public Involvement**
- **Review preliminary alternatives**
- **Review detailed study alternatives**
- **Recommended Alternative**
- **Historic considerations**
- **Funding options**
- **Project timeline**
- **Contacts**

# Public Involvement



- Meetings to date:
  - Local Officials Meeting – September 8, 2014
  - Public Involvement Meeting – September 8, 2014
  - Public Involvement Meeting – September 9, 2014
  - Local Officials Meeting – January 5, 2016
  - Public Involvement Meeting – January 5, 2016
  - Public Involvement Meeting – January 6, 2016
  - PIM/Section 106/4(f) Consultation Meeting – July 17, 2017

# Public Involvement – What We Heard



The Cornell District would like a bus-crossable bridge.

If the current bridge can't be rehabilitated to withstand today's traffic weight limits, we would like a new bridge as close to the existing as possible.

I appreciate it's unique historical and aesthetic value.

This structure is needed!

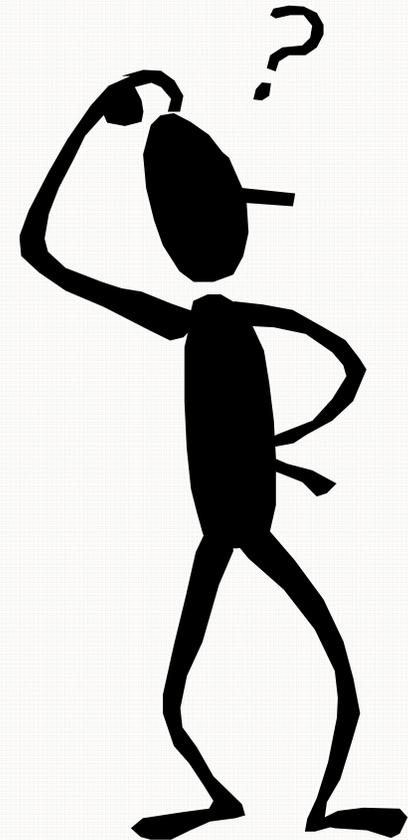
I choose the lowest cost option.

A safe and convenient access to highway 178 along with traffic safety, neighborhood safety, maintaining wetlands and historical structures, are concerns for us with this project.

# Preliminary Alternatives



- No build: Remove existing bridge
- Rehabilitate existing bridge
- Build a new bridge



## Preliminary Alternatives



- No build: Remove existing bridge
  - Does not meet purpose & need
  - Rehabilitation not feasible
  - Keeping/maintaining bridge is a liability for the County

*Carried forward for baseline comparison*

# Preliminary Alternatives Rehabilitate Existing Bridge



- The bridge is in poor structural condition



- Outdated design

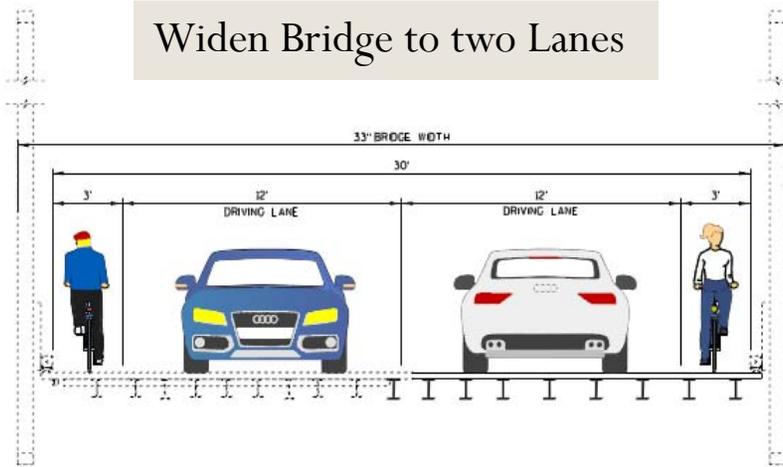
- Width, weight, height,  
and speed restrictions



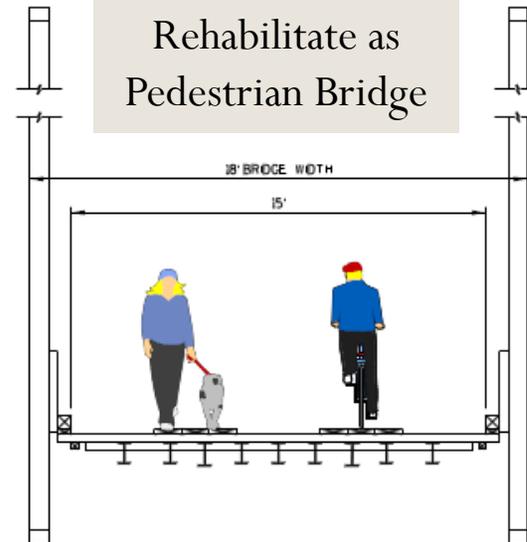
# Preliminary Alternatives Rehabilitate Existing Bridge



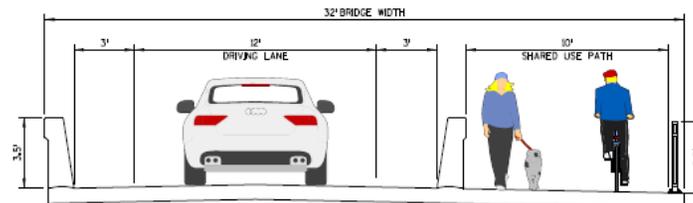
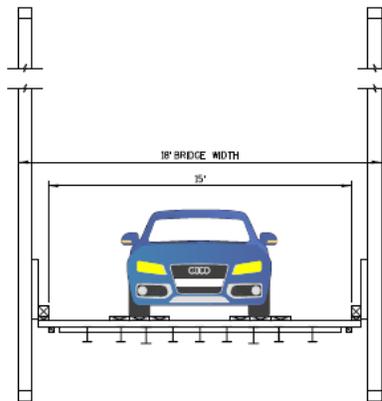
Widen Bridge to two Lanes



Rehabilitate as  
Pedestrian Bridge



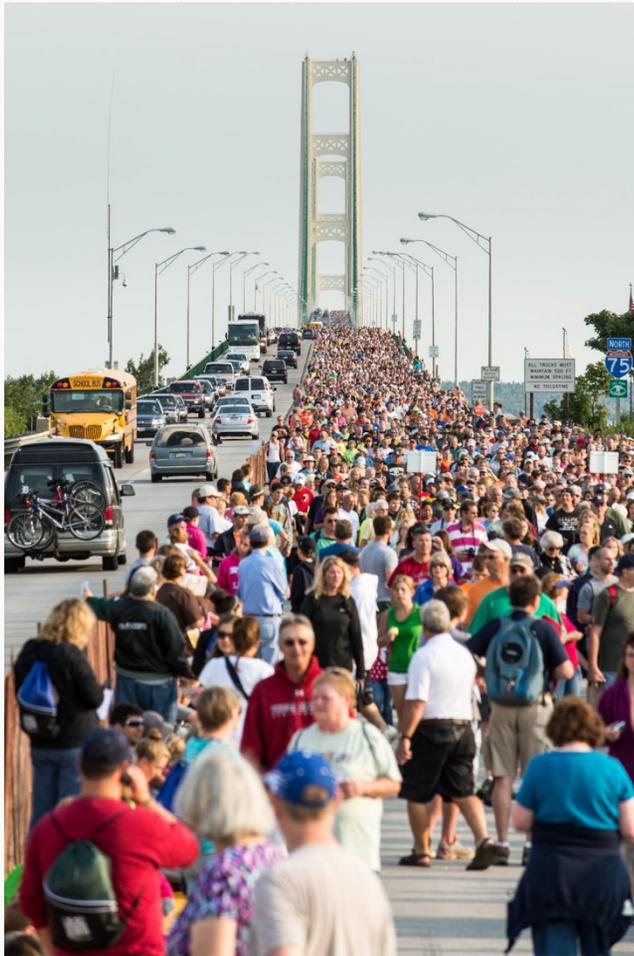
One Lane Pairs



# Preliminary Alternatives Rehabilitate Existing Bridge



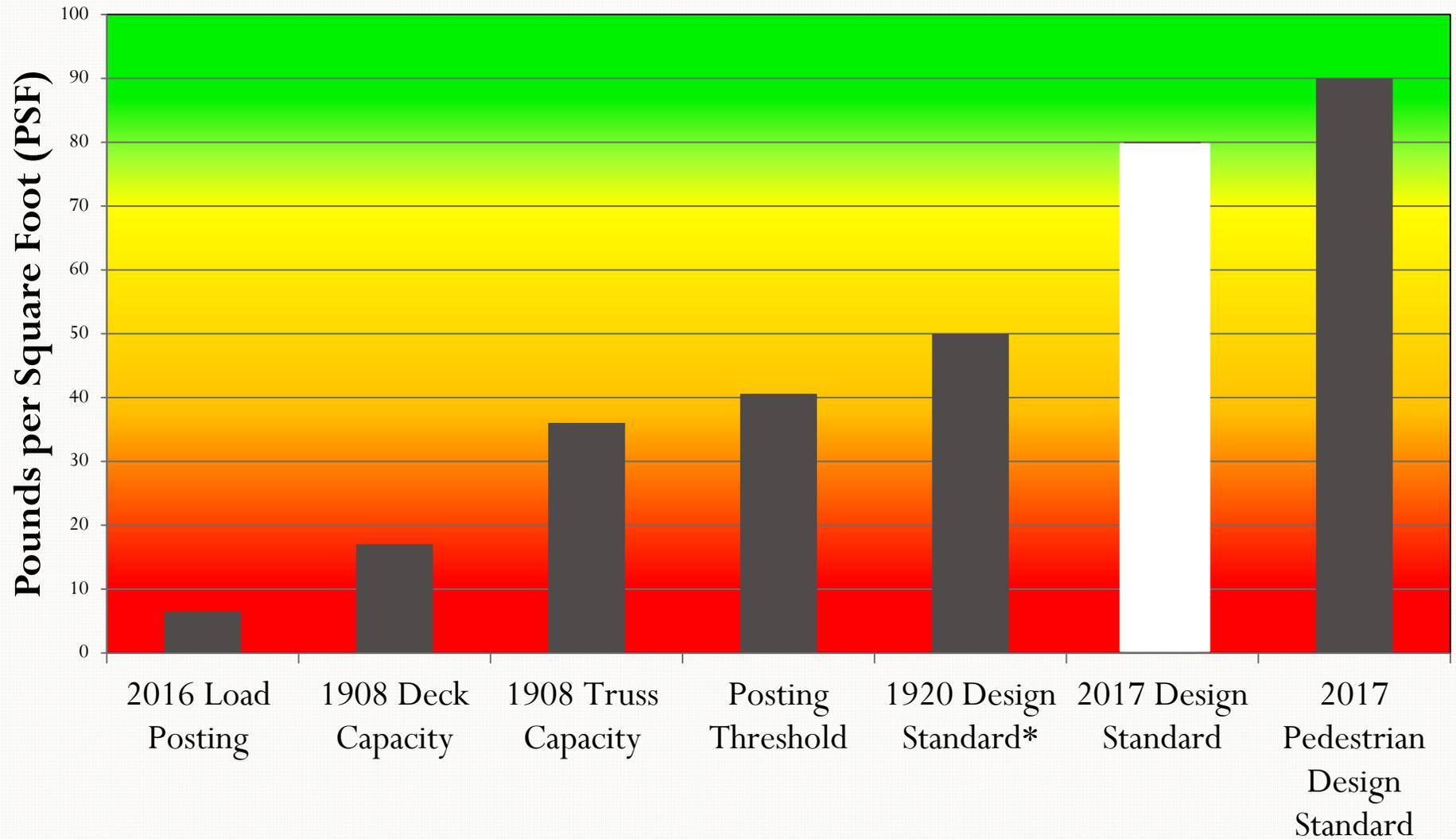
Mackinac Bridge (Michigan) – half open for walk/run



Hoan Bridge (Milwaukee) - Marathon



# Preliminary Alternatives - Rehabilitate Existing Bridge



\*Design Load from the Wisconsin Highway Committee for a 200' span bridge.

# Preliminary Alternatives

## Rehabilitate Existing Bridge



- Construction Costs **> all build alternatives**
- Complicated construction methods
- Historical integrity difficult/impossible to maintain



*Dropped from further  
consideration  
Not prudent to construct*

# Preliminary Build Alternative Corridors

- 180<sup>th</sup> Street/ County TT
- Existing Location
- County R/ 200<sup>th</sup> Ave



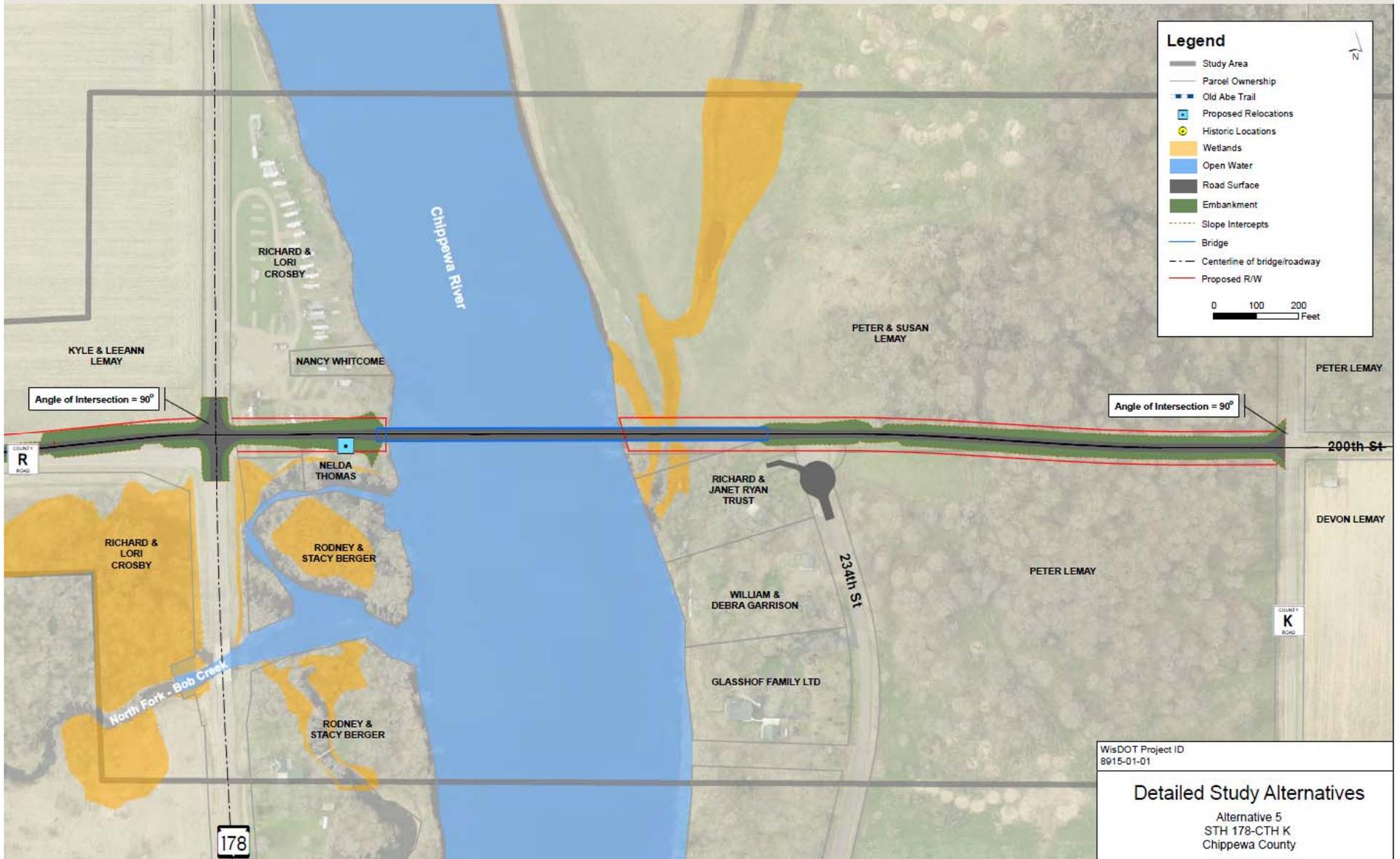
# Detailed Study Alternatives



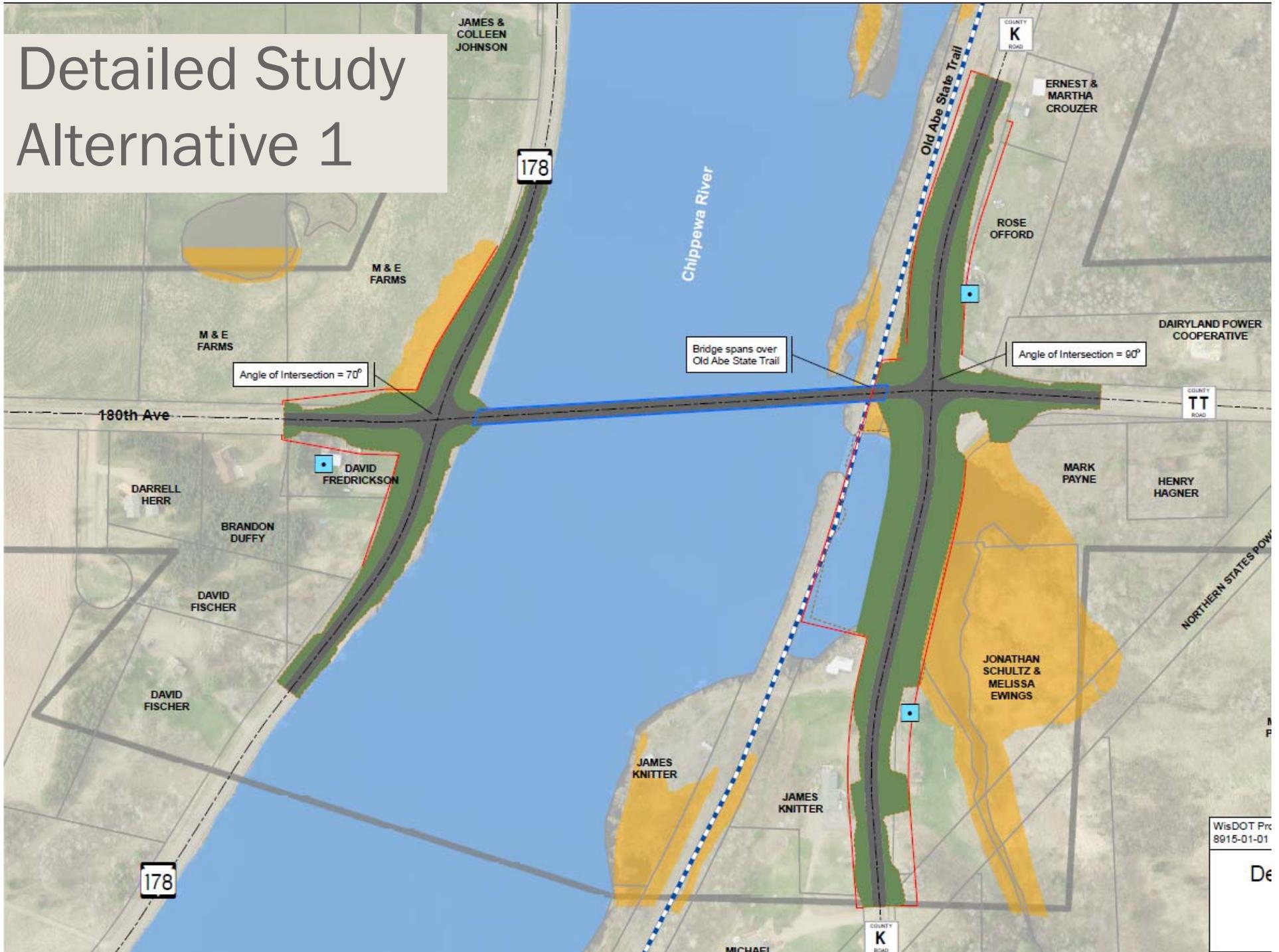
- No build (remove existing bridge)
- Build a new bridge
  - Alt 1
  - Alt 1B
  - Alt 3
  - Alt 5



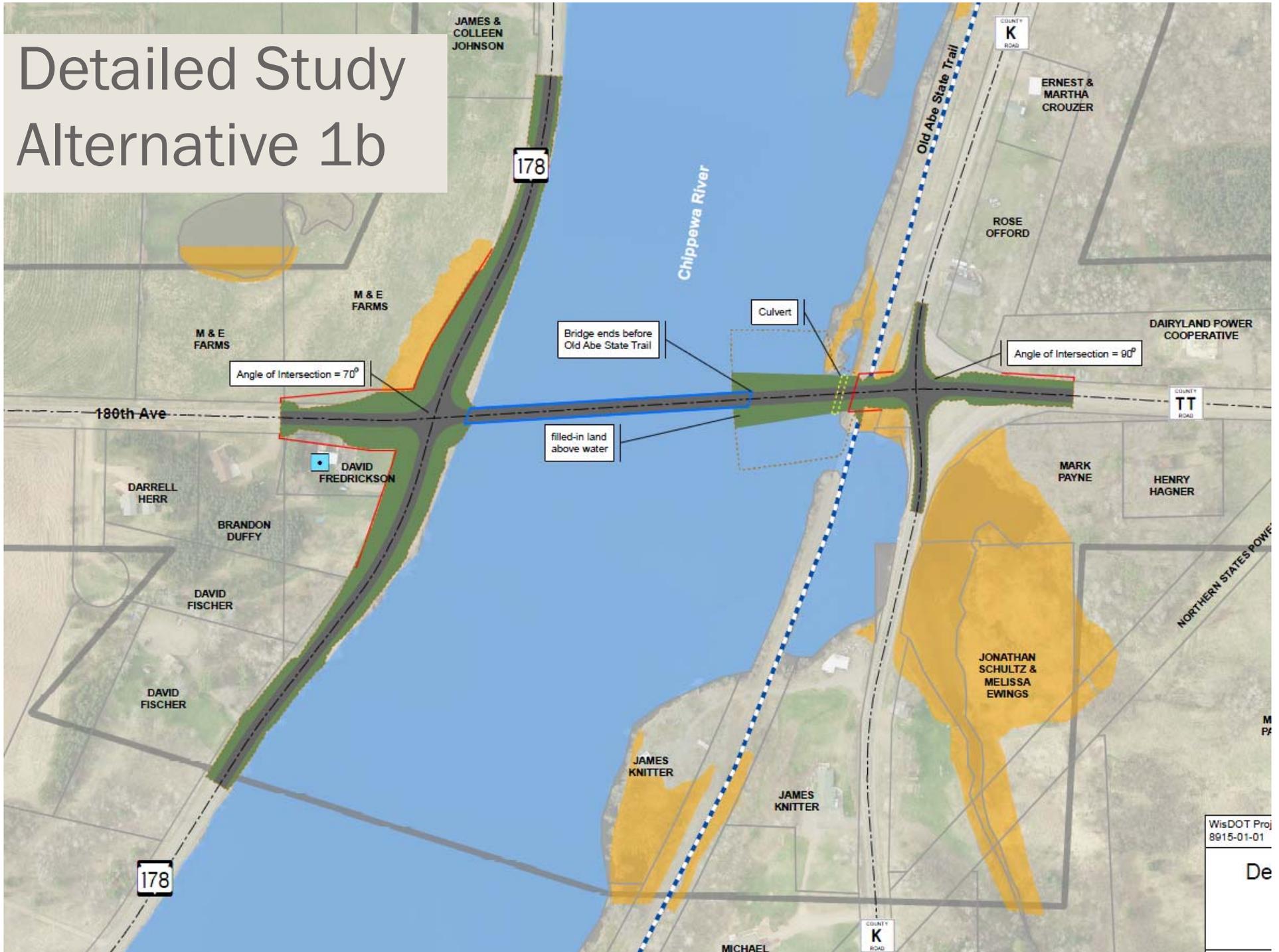
# Detailed Study Alternative 5



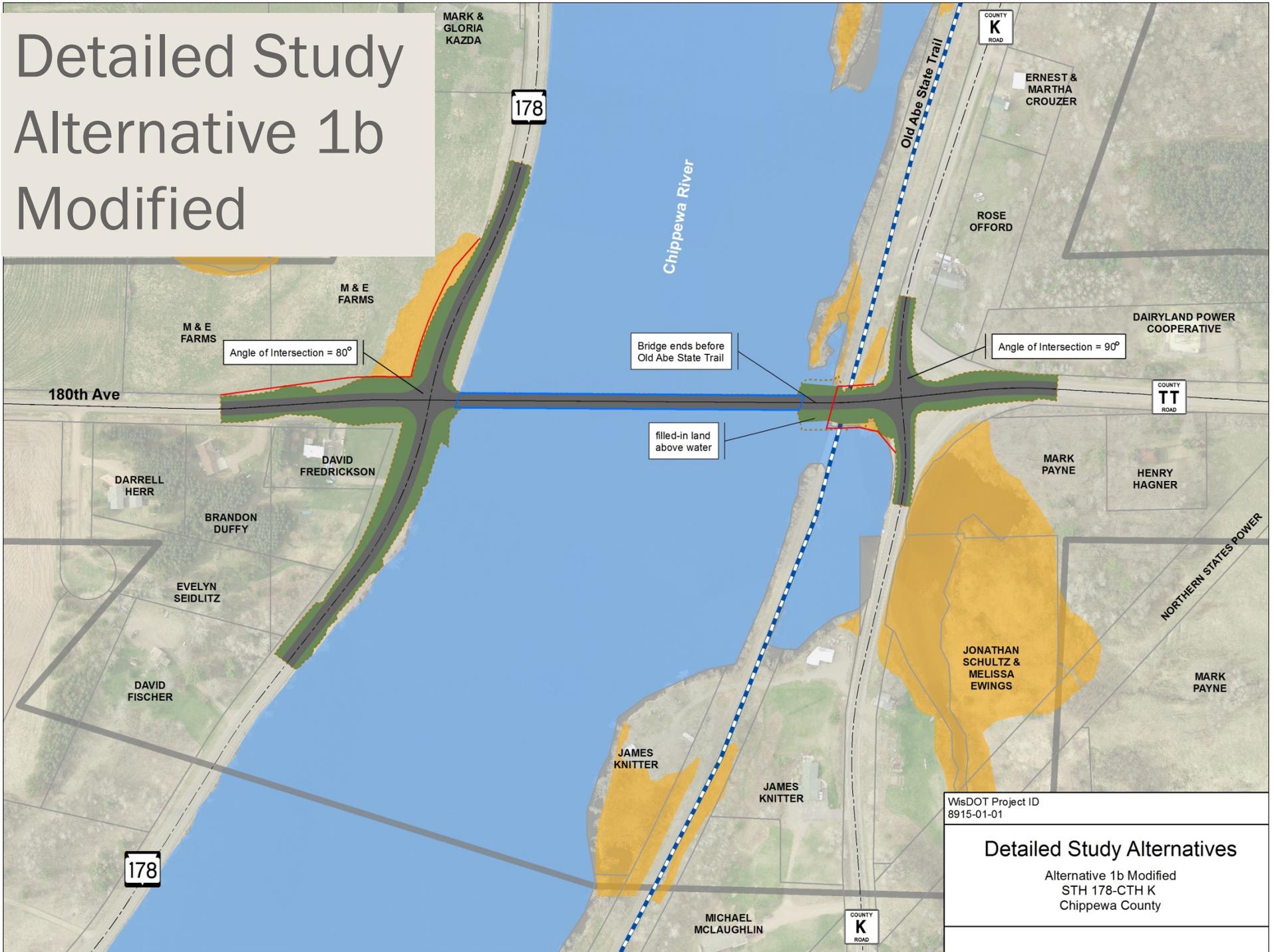
# Detailed Study Alternative 1



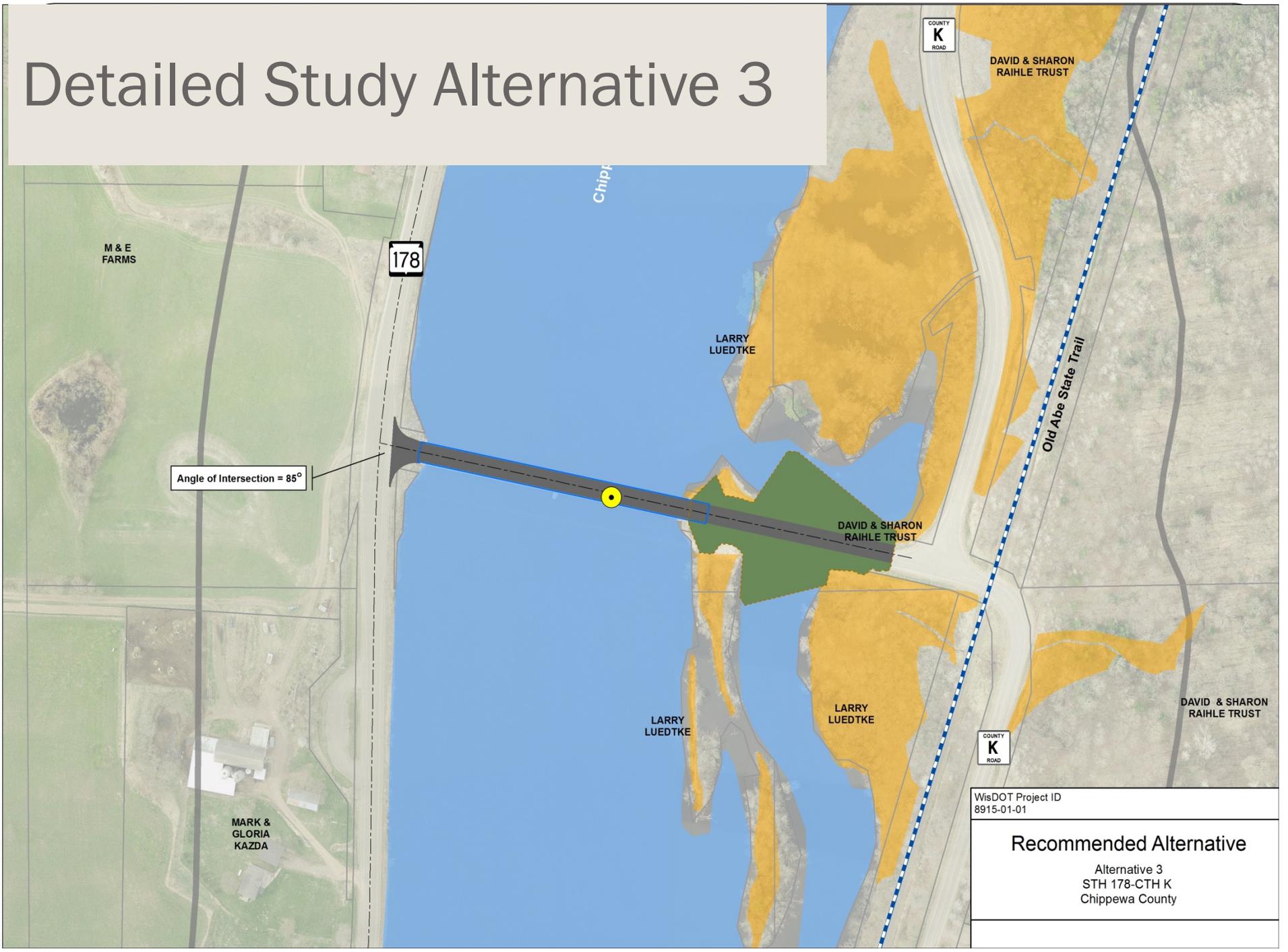
# Detailed Study Alternative 1b



# Detailed Study Alternative 1b Modified



# Detailed Study Alternative 3



Angle of Intersection = 85°

WisDOT Project ID  
8915-01-01

**Recommended Alternative**  
Alternative 3  
STH 178-CTH K  
Chippewa County

# Comparison of Impacts - New Build Options

Comparison Factor	No-Build	1b Modified	3 (Recommended)
Project Length (Lane Miles)	0	0.7	0.4
Construction Cost: (2025 \$Mil)	\$1.2	\$12.9	\$8.6
Farms Potentially Affected	0	1	0
Additional Wetland (Acres)	0	0.6	0.2
Area From Farm Operations Required (Acres)	0	0	0
Other Area Impacted (Acres)	0	0.8	0
Total Land Impacted (Acres)	0	0.8	0.2
Buildings Required	0	0	0
Potentially Eligible Historic Properties ( not including Cobban Bridge)	0	0	0
Archaeological Sites	0	0	0
Old Abe State Trail Affected	No	Yes	No

# Recommended Alternative Alternative 3



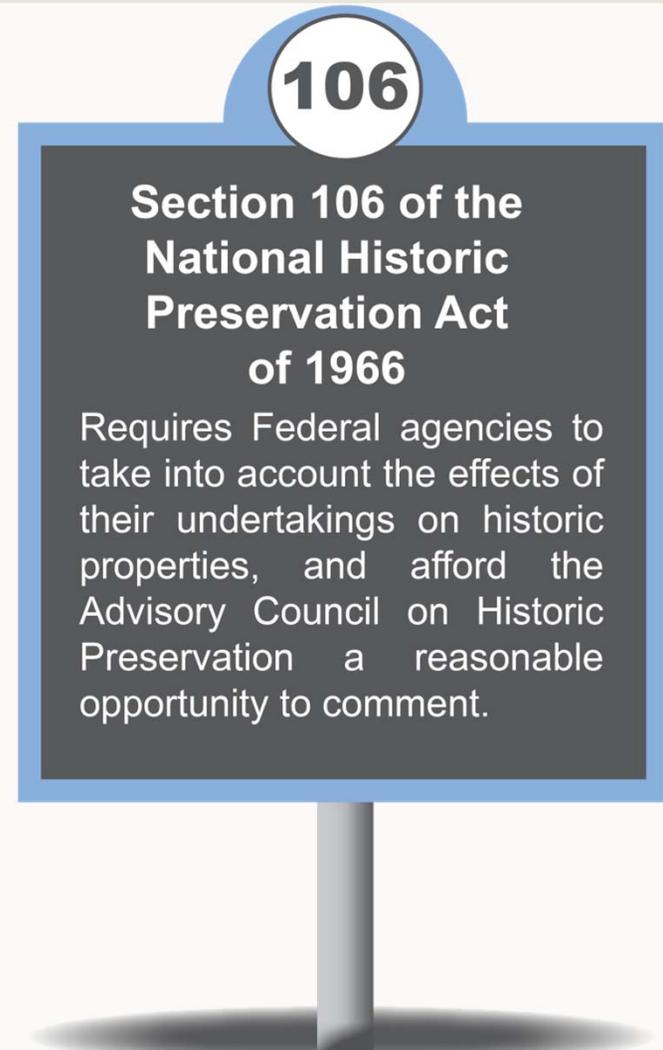
# Historic Considerations



- Section 4(f) Resources (parks and recreation lands, wildlife and waterfowl refuges, and historic sites)
- Section 106 Resources (historic properties)

# Section 106 Review Process

- What is Section 106?
  - 1966 National Historic Preservation Act (NHPA)
    - National Register of Historic Places
    - Criteria to evaluate significance
  - Federal agencies must consider a project's effects on historic properties



# Section 106 Review Process

- Step 1 – Screening
- Step 2 – Identification
- Step 3 – Evaluation
- Step 4 – Assess Effects
- **Step 5 – Consultation (We are here!)**
- Step 6 - Mitigation

# Section 106 Review Process

- Steps 1 & 2 – Screening and Identification
  - National Register of Historic Places
  - Wisconsin Historic Preservation Database
  - Locally-designated historic properties
  - Field survey

# Section 106 Review Process

- Step 3 – Evaluation
  - Why is property significant?
  - Does it meet NRHP criteria?
  - What are the character-defining features?
  - Determination of Eligibility (DOE)

# Section 106 Review Process

- Step 4 – Assess Effects
  - Changes to the character-defining features which make a property eligible for inclusion in the NRHP
  - If there will be an adverse effect, the federal agency will explore ways to avoid or minimize harm to the historic property.

# Section 106 Review Process

- Step 5 – Consultation
  - What is consultation?
    - Consultation is the process of seeking, discussing, and considering the views of other participants in the Section 106 process.
  - Who consults?
    - Wisconsin Historical Society
    - Federal Highway Administration
    - Wisconsin Department of Transportation
    - Local government
    - Owners of affected historic properties

# Section 106 Review Process

- Step 6 – Mitigation
  - What is mitigation?
    - Measures that lessen, or balance out, the adverse effects to a significant historic property
    - Mitigation measures can vary by project and property

# State/Federal Funding Programs



- Funding Program
  - **Local Bridge Program**
  - State Statute 84.18
  - 80% Federal / 20% County

# State/Federal Funding Programs



- Funding Program
  - **High Cost Local Bridge Program**
  - State Statute 84.11
  - 33% State / 33% County / 33% Town

# Estimated Cost Summary



Option	2017 Total Estimated Costs for Funding *	2025 Total Estimated Costs for Funding *
Alternative 1b-Modified	\$11 M	\$12.9 M
Alternative 3	\$7.3 M	\$8.6 M
No-Build **	\$1 M	\$1.2 M

\* Includes construction costs, mobilization, estimating contingencies, design engineering services, and construction related services.

\*\* This does not reflect possible payback of \$440,000 in federal design study funds.

# Project Timeline



- Development of alternatives – *Fall / Winter 2014*
- Analysis of alternatives – *Spring / Summer 2015*
- Selection of a recommended alternative – *Summer 2017*
- Completion of environmental document – *Summer 2018*
- Anticipated construction date – *Not currently scheduled*

# Contacts



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## General Discussion



- Next Steps
- Questions?