

Cobban Bridge Location Study

September 8, 2014
Cornell, WI



Presentation Overview

- **History**
- **Purpose**
- **Need**
- **Preliminary alternatives**
- **Project timeline**
- **Preliminary cost ranges**
- **Contacts**

History



- “Yellow River Bridge” originally constructed in 1908 just north of Chippewa Falls
- Moved to current location in 1916-1919 and given the name “Cobban Bridge”
- Rehabilitated in 1995



(Source: Library of Congress)

Purpose



- Provide a long-term safe and efficient link
- Remain sensitive to natural and cultural resources
- Meet the traveling public's needs
- Provide a cost effective alternative

Need



- The bridge is in poor structural condition



Need



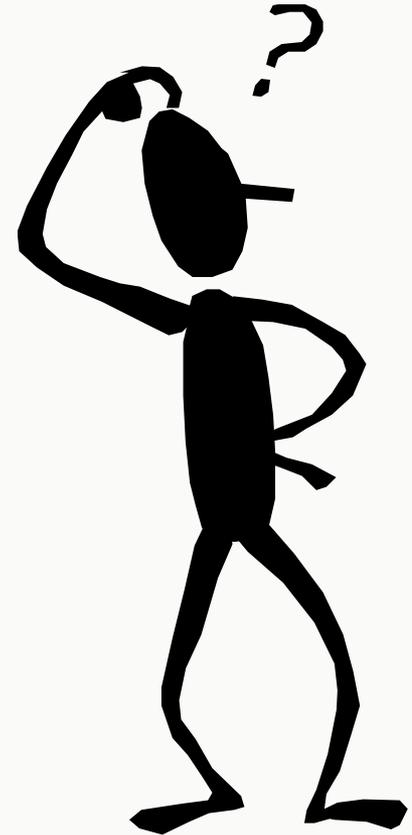
- Outdated design
- Width, weight, height, and speed restrictions
- Nearest Chippewa River crossing is 6 miles away



Preliminary Alternatives



- No build (do nothing or remove existing bridge)
- Rehabilitate existing bridge
- Build a new bridge



No Build Option

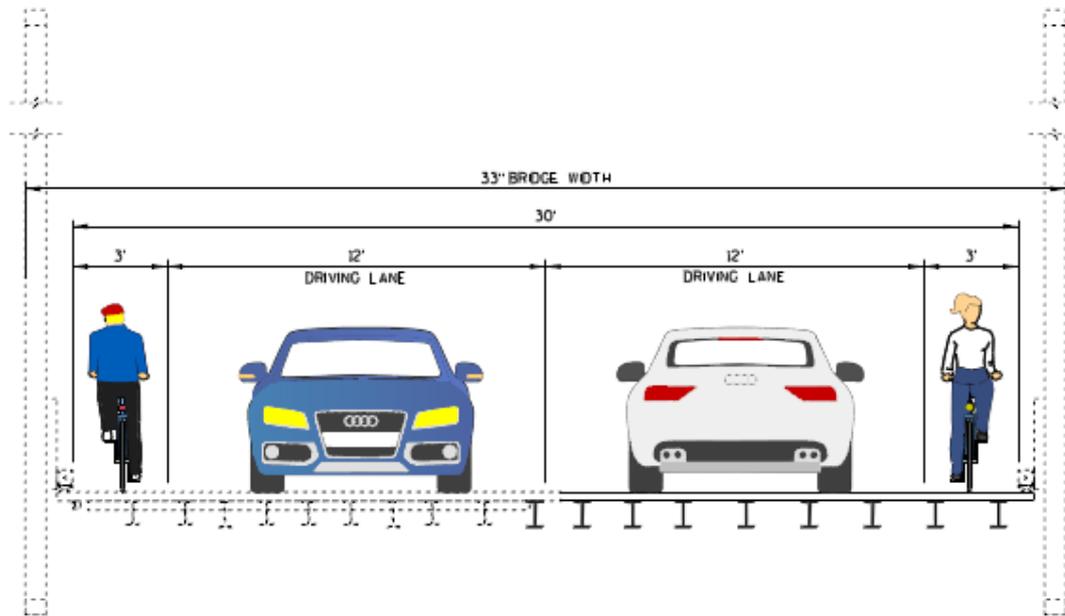


- 2014 ADT = 219 vehicles per day
- 3.9% trucks forecasted
- Least expensive
- Does not address poor bridge condition
- Does not address functional deficiencies

Bridge Rehabilitation Options



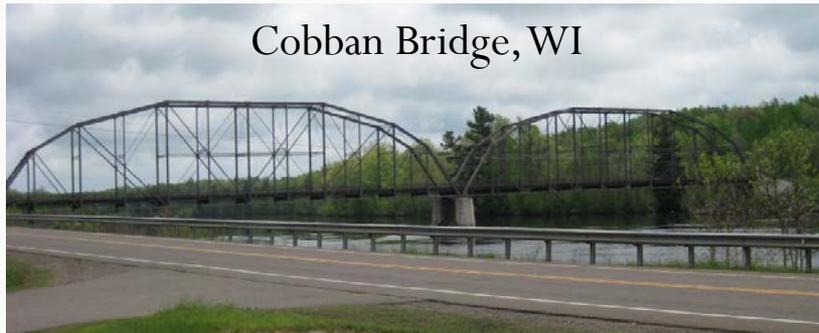
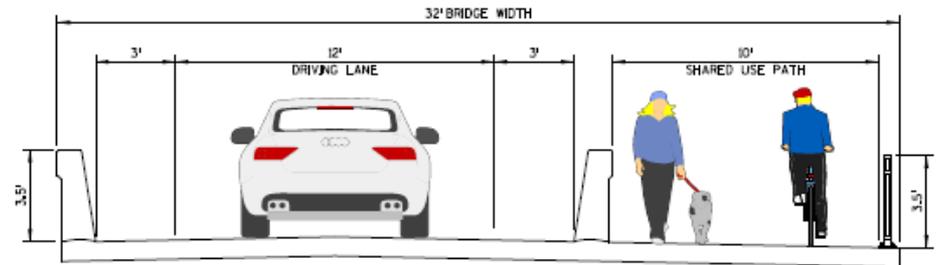
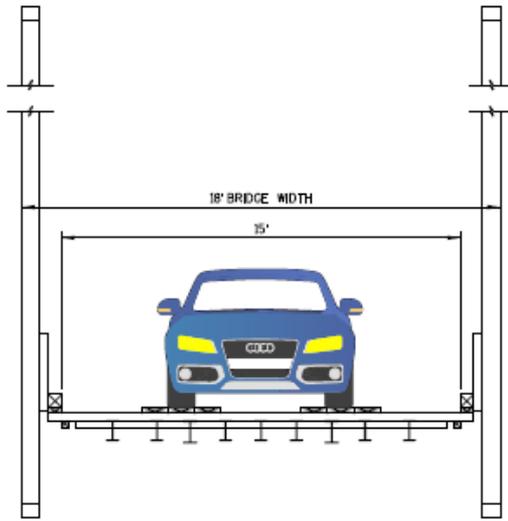
- Widen bridge to two lanes



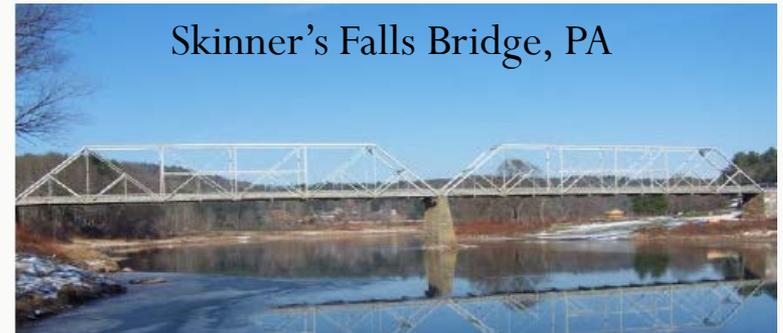
Bridge Rehabilitation Options



- One lane pairs



Cobban Bridge, WI



Skinner's Falls Bridge, PA

Bridge Rehabilitation Options



- Rehabilitate the Cobban Bridge as a pedestrian bridge

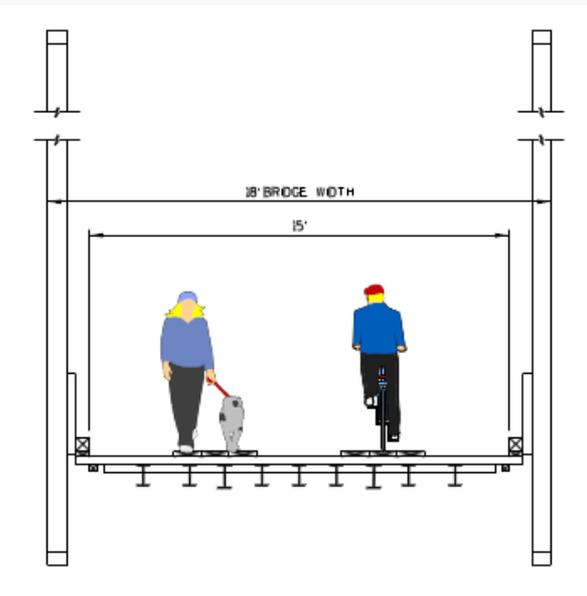
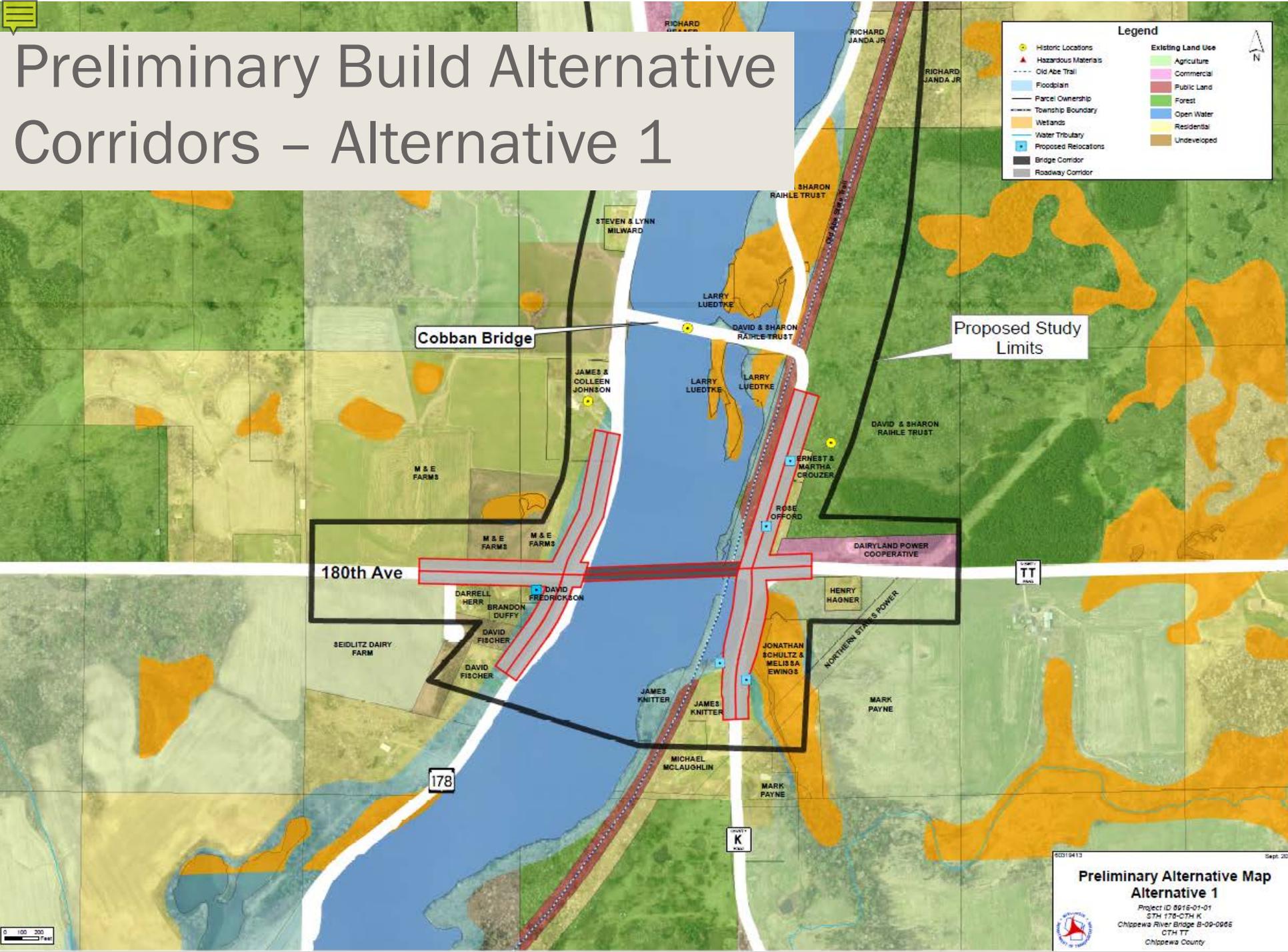


Figure C3.1-2—Live Load of 100 psf

(Source: AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges)

Preliminary Build Alternative Corridors – Alternative 1



Legend

● Historic Locations	Existing Land Use
▲ Hazardous Materials	● Agriculture
--- Old Abe Trail	● Commercial
■ Floodplain	● Forest
--- Parcel Ownership	● Public Land
--- Township Boundary	● Open Water
■ Wetlands	● Residential
■ Water Tributary	● Undeveloped
■ Proposed Relocations	
■ Bridge Corridor	
■ Roadway Corridor	

Cobban Bridge

Proposed Study Limits

180th Ave

178

K

TT

CDI 19413 Sept. 20

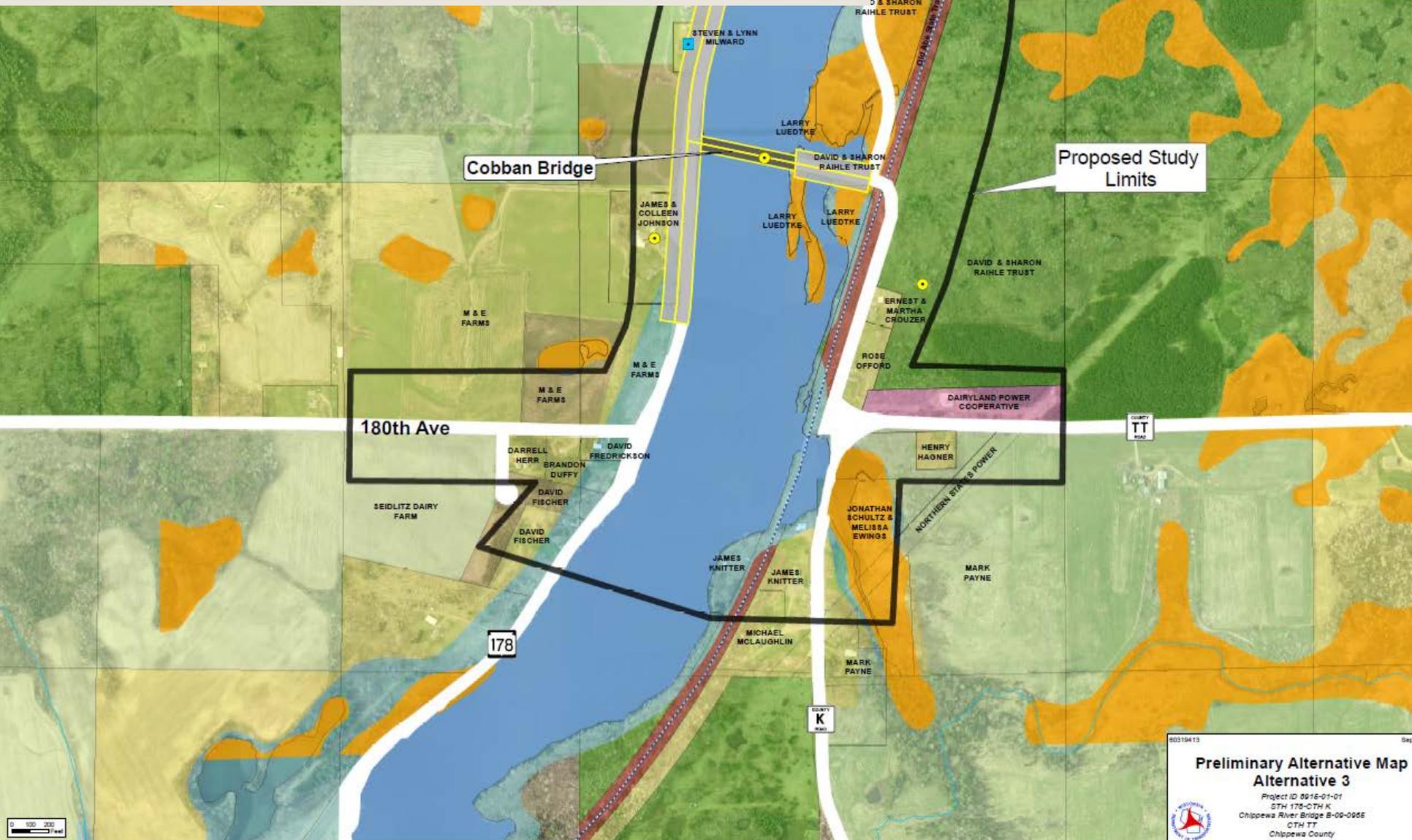
Preliminary Alternative Map Alternative 1
 Project ID 0916-01-01
 STH 178-C7H K
 Chipewewa River Bridge B-09-0066
 CTH TT
 CHIPPEWA COUNTY

0 100 200 Feet

Preliminary Build Alternative Corridors – Alternative 3

Legend

	Historic Locations		Existing Land Use
	Hazardous Materials		Agriculture
	Old Abe Trail		Commercial
	Floodplain		Public Land
	Parcel Ownership		Forest
	Township Boundary		Open Water
	Wetlands		Residential
	Water Tributary		Undeveloped
	Proposed Relocations		
	Bridge Corridor		
	Roadway Corridor		



180th Ave

Proposed Study Limits

Cobban Bridge

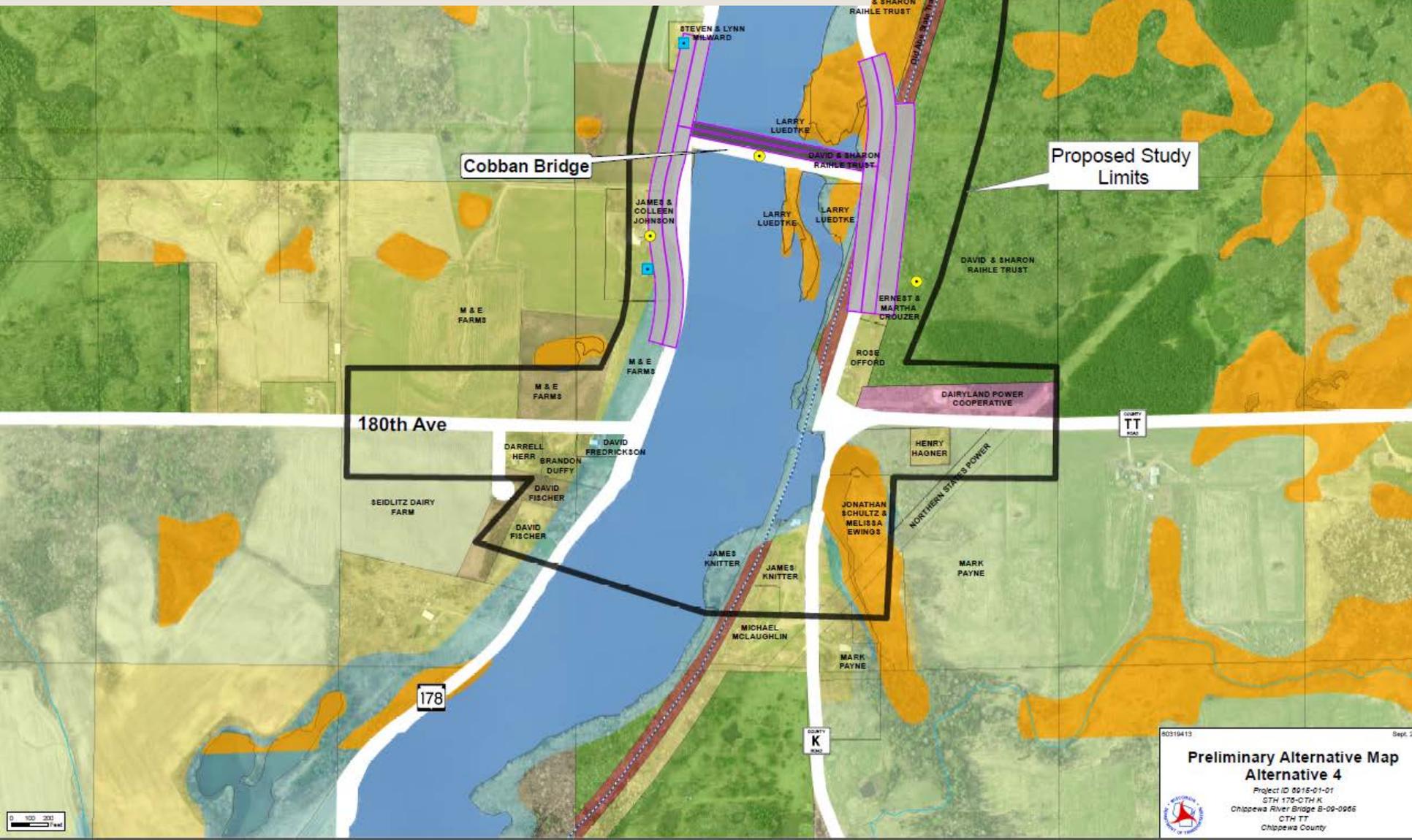
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**Preliminary Alternative Map
Alternative 3**

Project ID 0916-01-01
 STH 178-CTH K
 Chippewa River Bridge B-09-0966
 CTH TT
 Chippewa County



Preliminary Build Alternative Corridors – Alternative 4



Legend

	Historic Locations		Existing Land Use
	Hazardous Materials		Agriculture
	Old Abe Trail		Commercial
	Floodplain		Public Land
	Parcel Ownership		Forest
	Township Boundary		Open Water
	Wetlands		Undeveloped
	Water Tributary		
	Proposed Relocations		
	Bridge Corridor		
	Roadway Corridor		

180th Ave

178

Proposed Study Limits

Cobban Bridge

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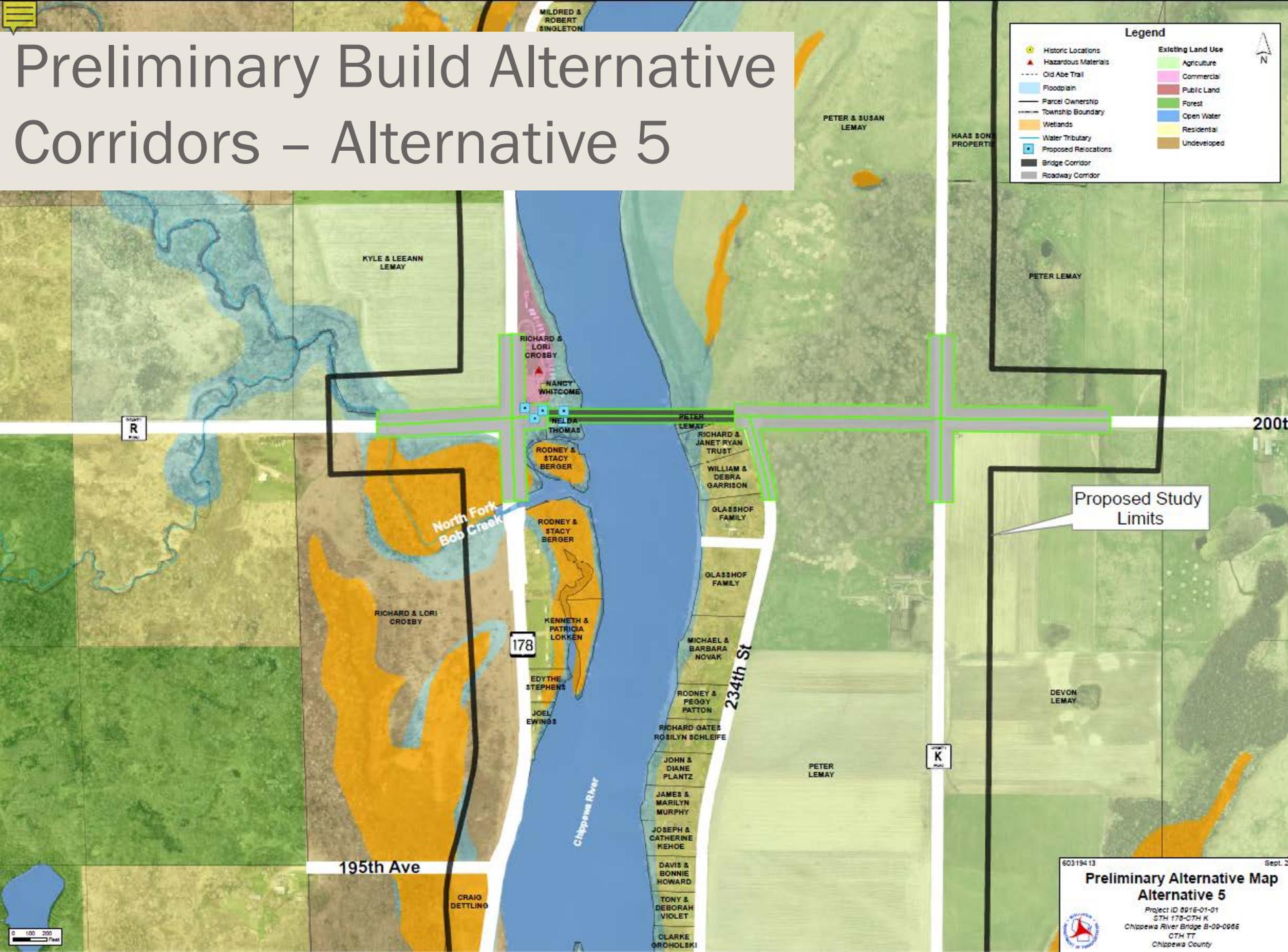
Sept. 2

Preliminary Alternative Map Alternative 4

Project ID 0016-01-01
 STH 178-OTH K
 Chippewa River Bridge B-09-0066
 CTH TT
 Chippewa County



Preliminary Build Alternative Corridors – Alternative 5



ROUTE R

KYLE & LEEANN LEMAY

RICHARD & LORI CROSBY

NANCY WHITCOMB

NELDA THOMAS

RODNEY & STACY BERGER

RODNEY & STACY BERGER

RICHARD & LORI CROSBY

KENNETH & PATRICIA LOKKEN

EDYTHE STEPHENS

JOEL EWINGS

195th Ave

CRAIG DETTLING

178

Chippewa River

234th St

PETER LEMAY

RICHARD & JANET RYAN TRUST

WILLIAM & DEBRA GARRISON

GLASSHOF FAMILY

GLASSHOF FAMILY

MICHAEL & BARBARA NOVAK

RODNEY & PEGGY PATTON

RICHARD GATES

ROSILYN SCHLEFE

JOHN & DIANE PLANTZ

JAMES & MARILYN MURPHY

JOSEPH & CATHERINE KEHOE

DAVIS & BONNIE HOWARD

TONY & DEBORAH VIOLET

CLARKE GROHOLSKI

PETER & SUSAN LEMAY

HAAS SON'S PROPERTY

PETER LEMAY

Proposed Study Limits

DEVON LEMAY

ROUTE K

50319413

Sept. 2

Preliminary Alternative Map Alternative 5

Project ID 5016-01-01

STH 178-C7H K

Chippewa River Bridge B-09-0906

C7H TT

Chippewa County



Comparison of Impacts-No Build/Rehab Options

Comparison Factor	No Build	Rehab 1:Widen Bridge	Rehab 2: One Way Pairs
Project Length (Lane Miles)	0	0.6	0.8
Construction Cost: (\$Mil)	\$0	>\$15	>\$13
Farms Affected	0	2	2
Additional Wetland (Acres)	0	0	1.0
Area From Farm Operations Required (Acres)	0	2.4	3.8
Other Area Converted to Right of Way (Acres)	0	3.6	6.2
Total Land Impacted (Acres)	0	6	10
Relocations	0	1	2
Potentially Eligible Historic Properties (not including Cobban Bridge)	0	0	2
Archaeological Sites	0	3	2
Old Abe State Trail Affected	No	No	Yes

Comparison of Impacts-New Build Options

Comparison Factor	1 (180 th)	2 (South)	3 (Existing)	4 (North)	5 (200 th)
Project Length (Lane Miles)	1.2	0.8	0.6	0.8	1.1
Construction Cost: (\$Mil)	\$7.0	\$5.1	\$3.5	\$5.9	\$7.4
Farms Potentially Affected	3	2	2	2	4
Additional Wetland (Acres)	0.8	1.0	0	0.8	1.0
Area From Farm Operations Required (Acres)	3.8	3.8	2.4	3.5	9.4
Other Area Impacted (Acres)	8.2	5.2	3.6	6.5	3.6
Total Land Impacted (Acres)	12	9	6	10	13
Relocations	5	1	1	2	5
Potentially Eligible Historic Properties (not including Cobban Bridge)	1	1	0	2	0
Archaeological Sites	1	2	3	2	2
Old Abe State Trail Affected	Yes	Yes	No	Yes	No

Project Timeline



- Development of alternatives – *Fall 2014*
- Analysis of alternatives – *Winter 2014/2015*
- Selection of a preferred alternative – *Spring/Summer 2015*
- Completion of environmental document – *Winter/Spring 2016*
- Anticipated construction date – *Not currently scheduled*

Contacts



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