TAP Funding & Partnering with Agencies

Partnering with other agencies to open up new funding opportunities









Presenters

- Michele Ford, P.E.
 - Washtenaw County Road Commission
- Roy Townsend, P.E.
 - Washtenaw County Parks and Recreation
 Commission

Agenda

- Overview of Border-to-Border Trail
- WCRC & WCPARC Partnership
- Funding
- Designing & Permitting
- Construction
 - Case Study: B2B D2



Popularity of Trails - Michigan

- Over 13,000 miles of state-designated trails
- More than 2,100 miles of multi-use trails
- Trails in nearly every county



Popularity of Trails - Washtenaw Co.

- B2B 55 miles with nearly
 40 miles complete
- Some segments have 3,000
 5,000 weekly users
- Trail network has over one million annual users



Washtenaw County – B2B Overview

- Non-motorized, paved, ADA accessible trail
- Goals:
 - Connect people, parks, and destinations
 - Safety and access for all



 Partnership approach to projects led by the Washtenaw County Parks & Recreation Commission

Washtenaw County – B2B Partners



Agencies:

- MDOT, MDNR, Huron-Clinton Metroparks,
- Washtenaw County Road Commission

Cities:

Ann Arbor, Chelsea, Dexter, Ypsilanti

Townships:

 Ann Arbor, Lyndon, Lima, Scio, Sylvan, Ypsilanti

Non-Profit Organizations:

- Huron Waterloo Pathways Initiative (HWPI)
- St. Joseph Mercy Health System
- Eastern Michigan University
- Washtenaw Community College
- Huron River Watershed Council

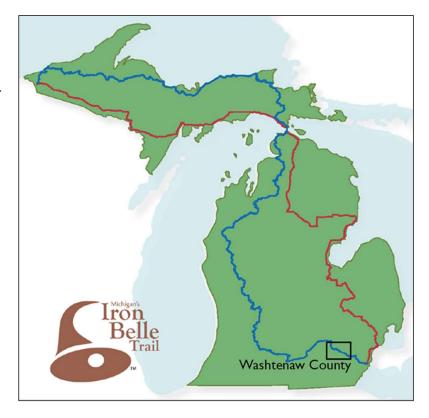
Part of the Iron Belle Trail (IBT)

Within the County:

- Ypsilanti, Ann Arbor, Dexter, Chelsea
- 55 miles (nearly 40 complete or under construction)

Regional Connections:

- Northwest to Stockbridge (IBT) then to Jackson
- Southeast to Lower-Huron
 Metropark (IBT) then to Lake Erie
- North to Lakelands Trail near Pinckney



WCRC & WCPARC Partnership

- 20-year history of collaboration
- First B2B segment in 2001
- Since 2016, 14+ miles of new construction

What happened in 2016???



2016: 4-year Washtenaw Co. Millage

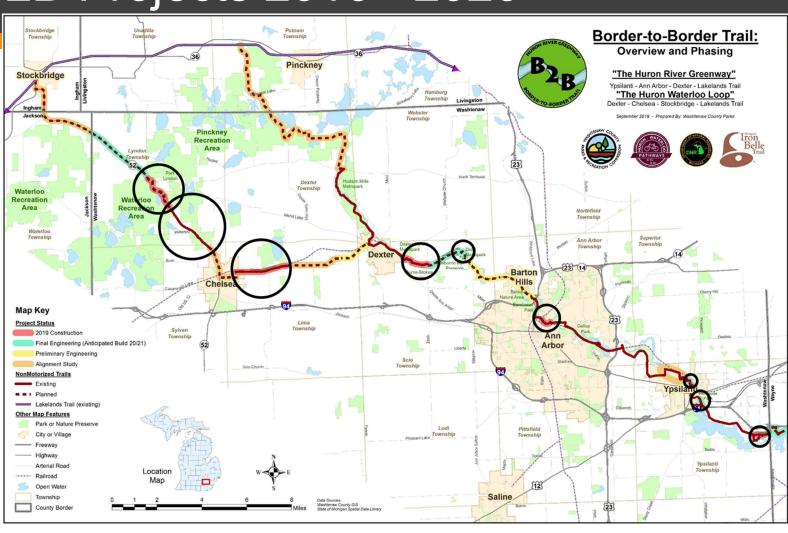
- County-Wide Millage
 - 80% Roads
 - 20% Non-Motorized (WCPARC)

The pathways helped to sell the millage to residents.

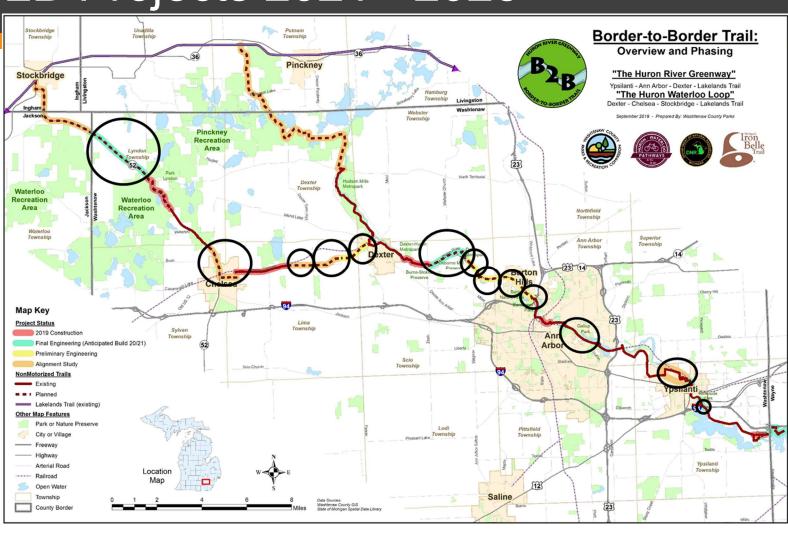


Renewed in 2020 with 76% support!!

B2B Projects 2016 - 2020



B2B Projects 2021 - 2025



Why Partner? It's all about \$\$

- Transportation Alternative Program (TAP)
 - Federal funds
 - Requires an ACT 51 Agency
 - Mutually beneficial
- Administered as an MDOT LAP project



Funding

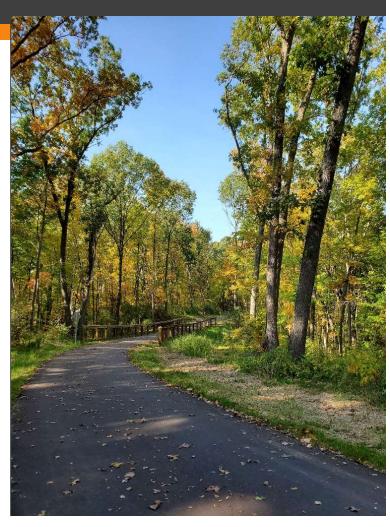
- TAP Funds
 - MDOT
 - SEMCOG
- Local Match
 - Can include private funding or other grants

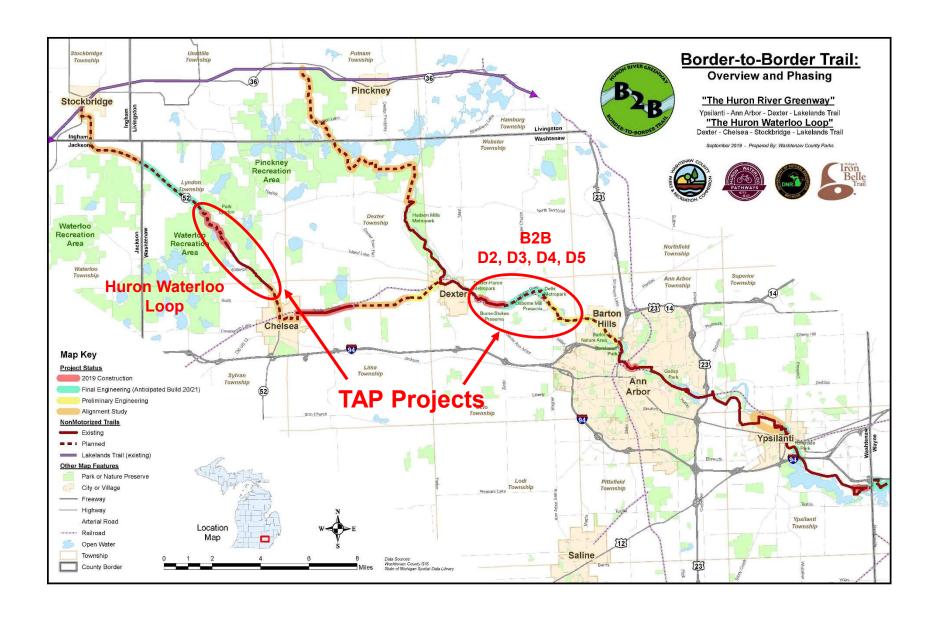


- Road Commission reimbursed for all costs
- Partner (WCPARC) is owner and performs all maintenance

WCRC TAP Projects with the WCPARC

- Huron Waterloo Loop,
 Phase 1 & 2 Complete
- Border-to-Border Trail
 - Segment D2 Complete
 - Segment D3 Design GI Submitted
 - Segment D4 Design Preliminary
 - Segment D5 Planning





Don't Be Fooled – These aren't roads

Do not underestimate the complexity

- Public Outreach
- ROW Acquisition
- Permitting
- Design
- Stakeholder Involvement

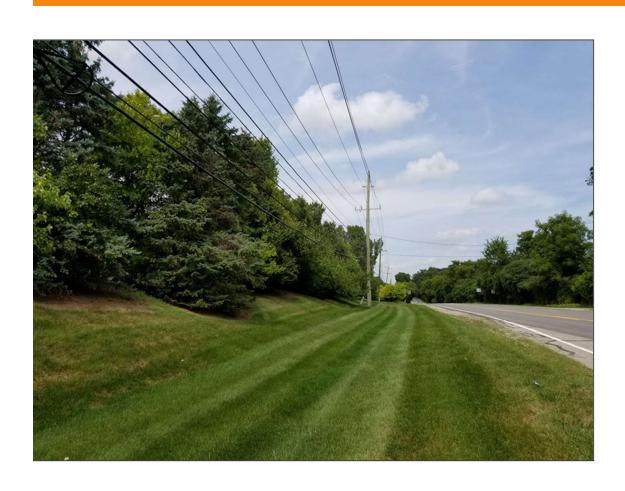


Public Outreach – Partner Takes the Lead

The Road
Commission
takes a
supporting role.



The Public LOVES Trails...



...until they're in their backyard.

Be ready!

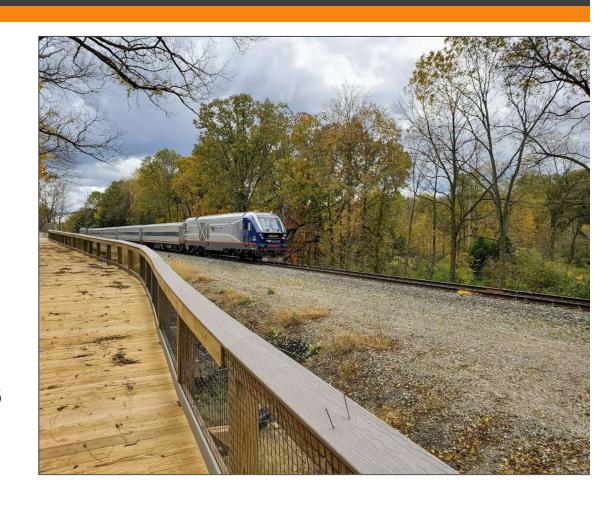
Right-of-Way Acquisition

- Know the rules!!!
- Must meet State/Federal requirements
- Don't promise what you can't deliver
- Go to MDOT LAP ROW with questions



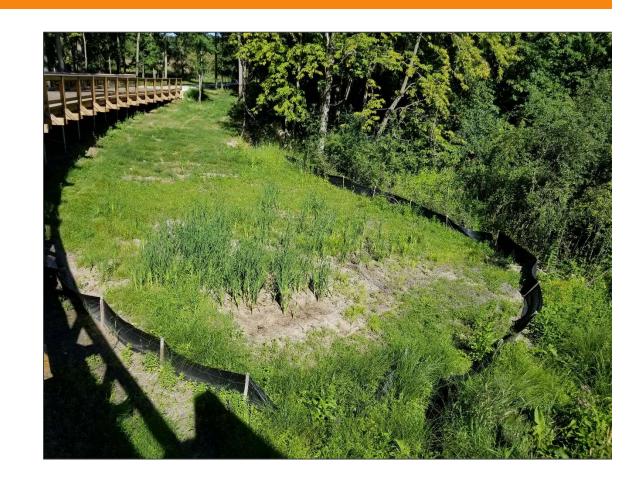
Permitting

- SHPO
- NEPA
- EGLE
- T&E Species
- Other
 - Railroad
 - Natural Rivers



Wetlands

- Same requirements as roads
- Mitigation may be necessary for permanent impacts



Wetlands

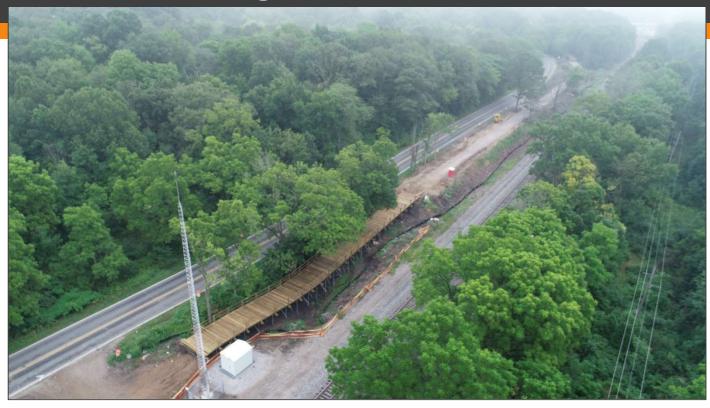
- Boardwalks
 - Zero wetlands impact
 - Expensive





Long-term maintenance issue

Wetlands - Mitigation



- Creating wetlands impractical and expensive
- Wetlands bank possible alternative to boardwalk

Design – Experience is Key

- Get involved early
- Designer with Trail experience is a MUST
- Know MDOT packaging and bid process
- Consider constructability in design
- Learn from experience

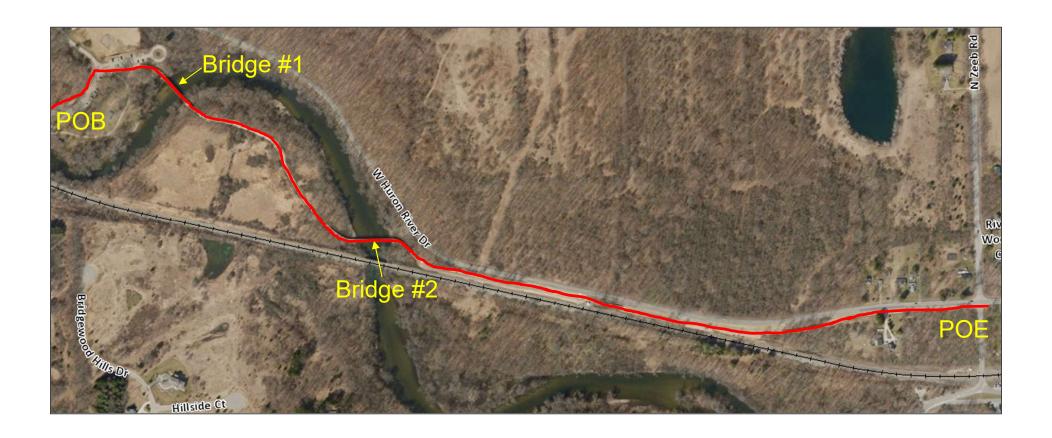


ADA vs. AASHTO Guidelines for Trails

- Ramps
 - Follow MDOT R-28-J
- Cross Slope
 - Max 2%
- Running Slope
 - ADA: Max 8.33%
 - AASHTO: <5% or need resting intervals



B2B Trail Segment D2



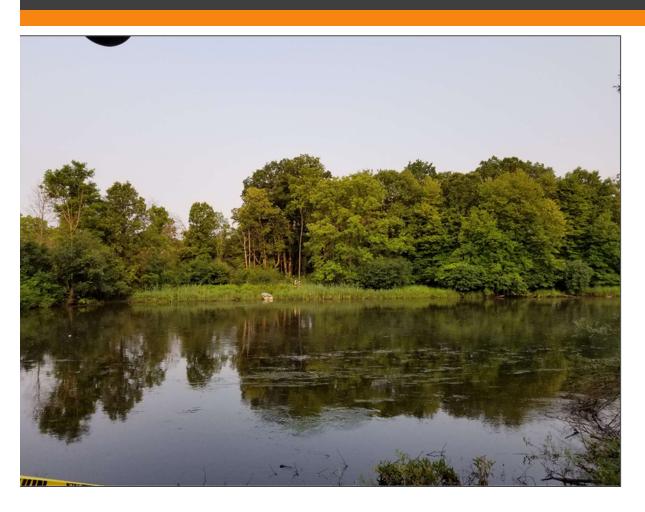
B2B Trail Segment D2

Constructability vs. Means & Methods

- Must anticipate how it will be built
- Permit for worst-case scenario



B2B Segment D2



How do we get over there?

- Barge
- Temporary Bridge

Probably going to touch the water and wetlands during construction.

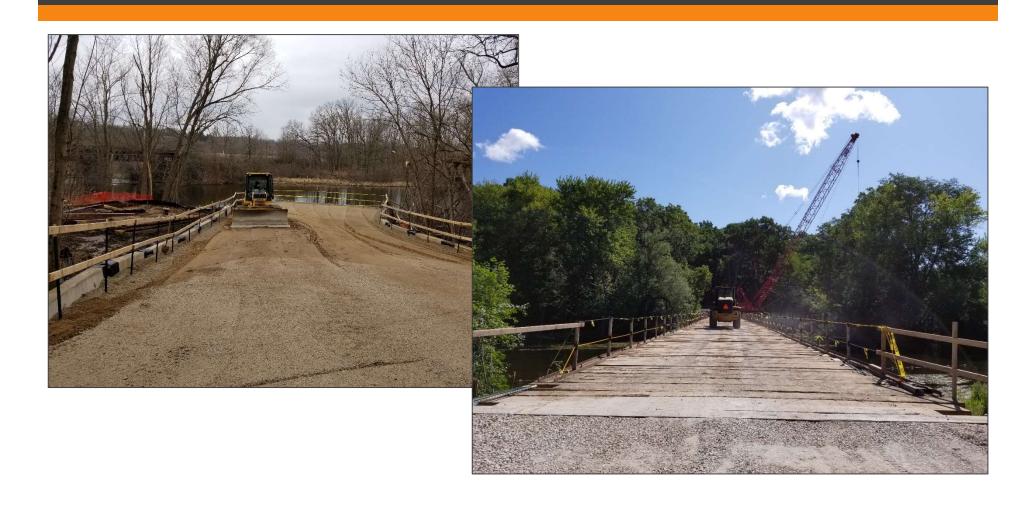
Permit for everything.

B2B Segment D2 – Mussel Survey





B2B Segment D2 – Temporary Bridge

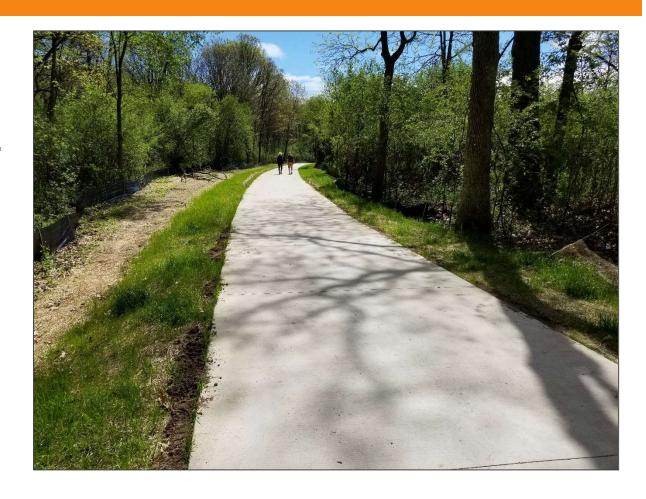


Be Flexible – Area on Peninsula

Changed from HMA to Concrete.

Allowed for later placement.

Better long-term maintenance.



Interesting Construction – B2B D2

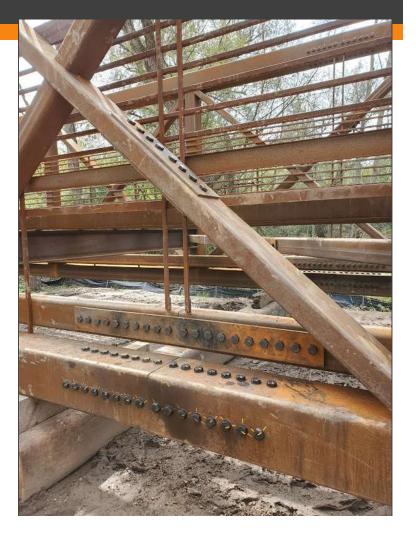
Learn from the variety of techniques used to build the different segments of the trails.

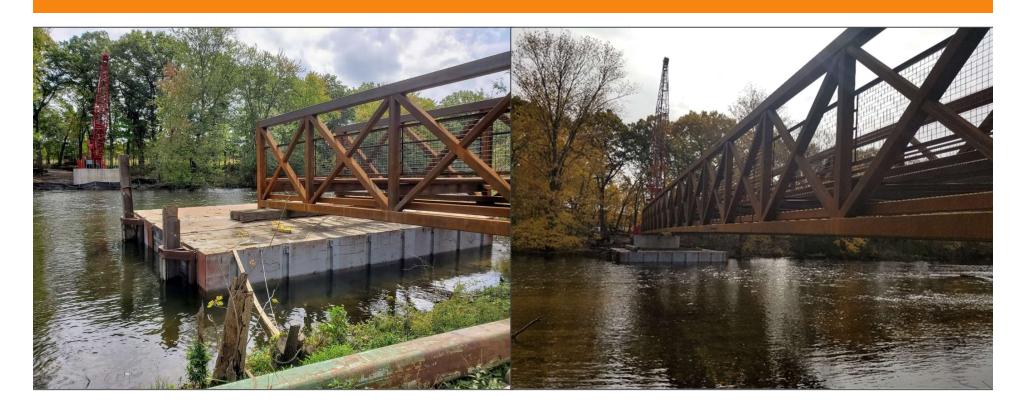
- Bridge 1:
 - 200 feet long
 - Build, float with a barge, lift with two cranes.
- Bridge 2:
 - 225 feet long
 - Build and slide with rollers.



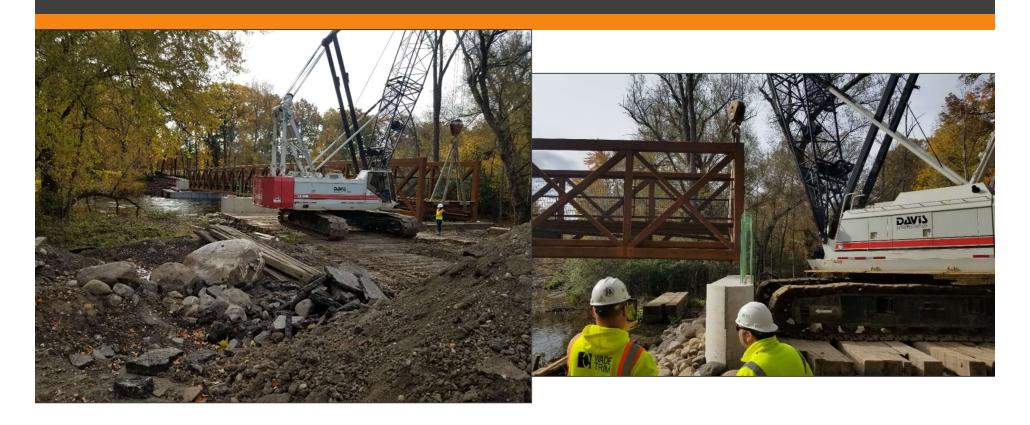


- Four segments
- Over 500 bolts per connection

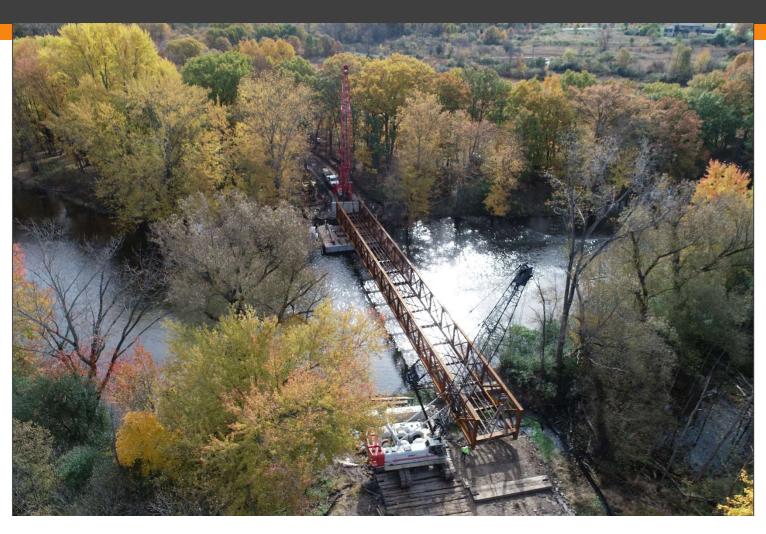




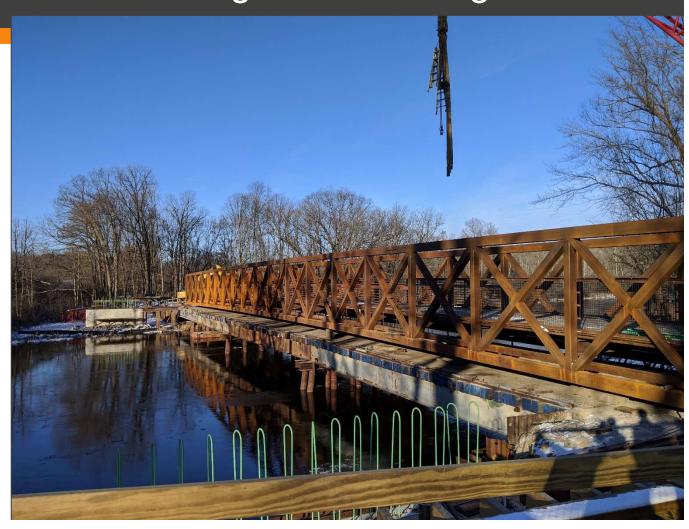
Assembled on land, floated with a barge across the river

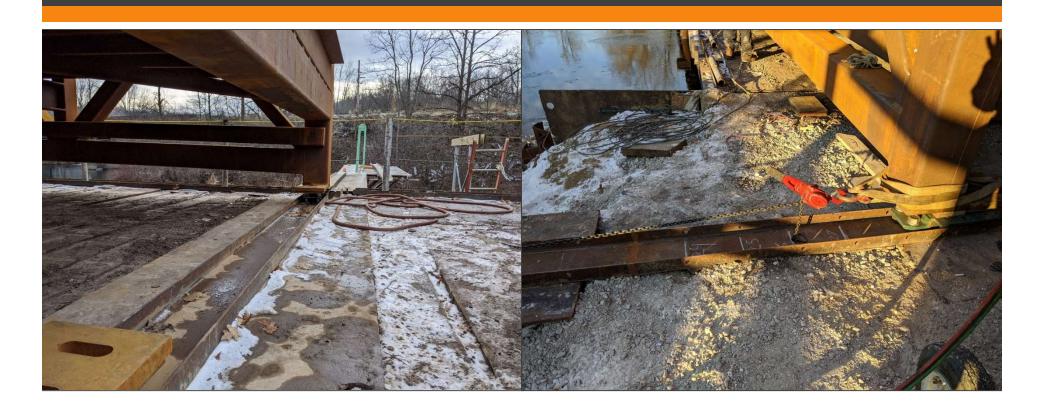


Lifted into place using two cranes

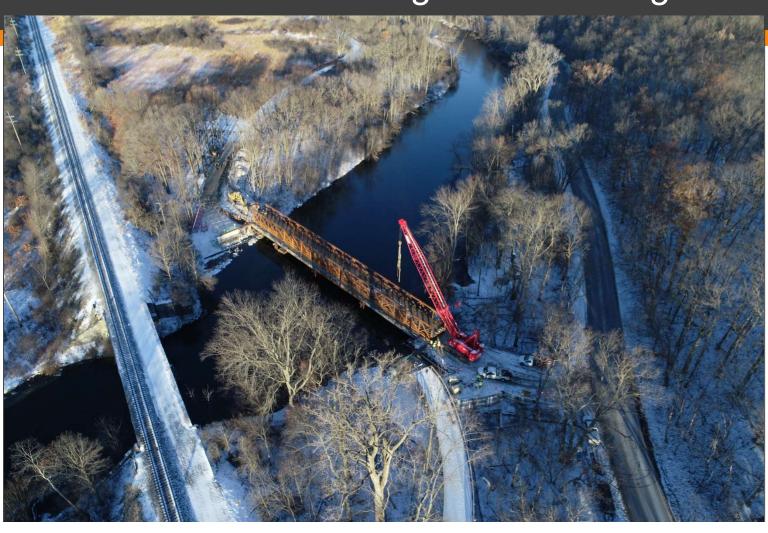


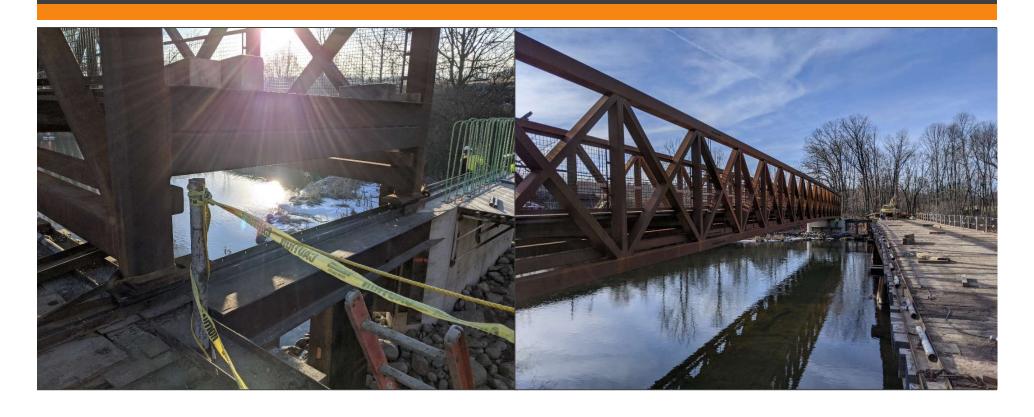
- Delivered with bridge decking
- Five segments assembled on temporary bridge





Built scaffolding to "slide" the bridge with rollers and a come-along tool

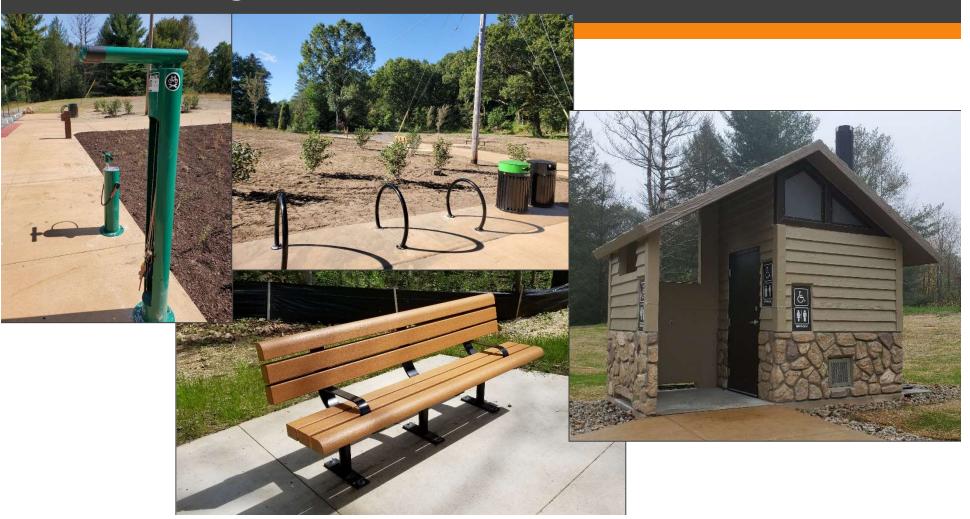




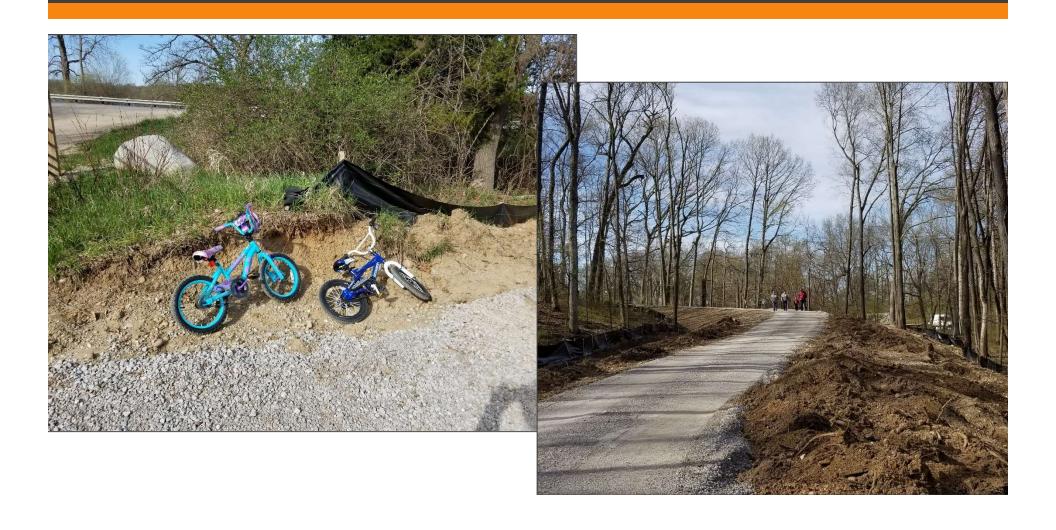
Shifted a nearly 100-ton bridge approx. 35 feet over 2+ hours



Finishing Touches



Popular Even During Construction

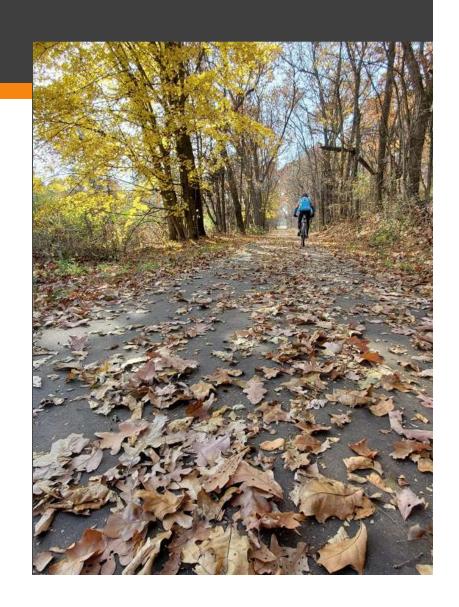


Need to Balance Popularity with Safety



Conclusion

- Popular the proof is in the numbers
- "Good Press" for the road commission
- Challenging but FUN to work on
- Helped to pass WCRC road millage \$\$\$!





QUESTIONS



