

Original Bridge History

- Pennsylvania Truss Bridge which once crossed the Allegheny River.
- Purchased by the state in 1919 for what was going to be state route M-35.
- 1939-State Highway Department cancelled route due to complications with crossing the Huron Mountains. The bridge and road were then turned over to the MCRC.



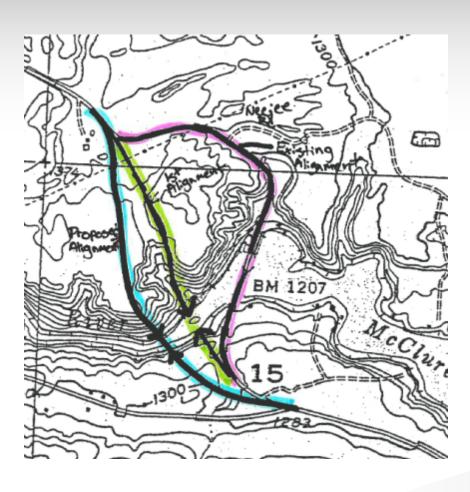
Need For a New Bridge





- Mid-1990's weight limit of bridge at 51 tons
- 2003-weight limit lowered to 40 tons
- 2009-weight limit lowered again. Bridge had to be plowed with a pickup truck.
- 40 Mile Detour

Planning and Design



- March of 1999 Received Critical Bridge Funding
- RFPs were sent out and Wilcox Associates, Inc. was awarded contract
- 4 Alternatives for bridge replacement
 - 1. Replace existing bridge at current location
 - 2. Side by Side Bridges
 - 3. New Crossing
 - 4. No Action

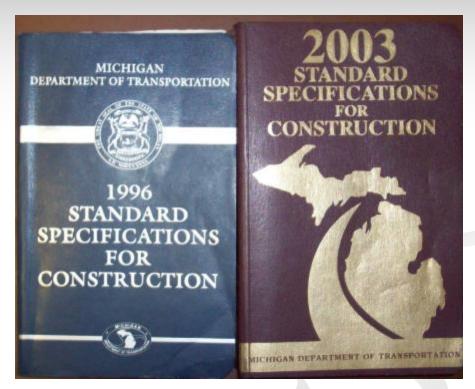
- Took approx. 1 year to get approval from MDOT for horizontal alignment.
 - First proposed alignment had to be moved because of wetland impacts, the close proximity to a small "trout" stream with a waterfall and on the south side and the MDNR Public Access Site.
 - More survey information was required.





- MCRC/Wilcox had to persuade MDOT to get critical bridge funding to cover entire approaches.
 - MDOT wanted it based on replacing bridge at existing location.
 - Found more cost effective to relocate, therefore whole project covered by CBF.

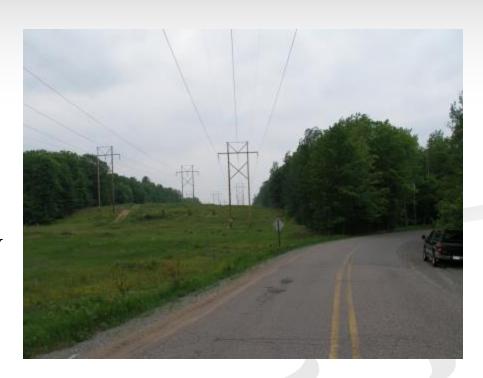
 Design started using 1996 Spec Book (Metric Units) and had to be changed to 2003 Spec Book (English Units)





Flood in May of 2003.

- Right-of-WayAcquisition
 - Struggled obtaining a one-acre parcel necessary for construction—property had to go to condemnation



Wetland Mitigation





- Work Completed by MCRC Crews
- 7.71 Acre Site
 - Credited 1.56 for 510 Bridge
 Project for Emergent
 Wetlands
 - Credited 3.72 Acres for 550
 Eagle's Nest Project for
 Forested Wetlands
 - 2.43 Acres Remain in Our Bank
- Worked closely with MDEQ to ensure proper completion

PHASE I

LETTING DATE: 9-7-07

COMPLETION DATE: 11-14-08

CONTRACTORS: OBERSTAR, INC., ZENITH TECH

ENGINEER'S ESTIMATE: \$2,089,250.75

BID AMOUNT: \$1,623,161.29

ACTUAL COST: \$1,738,276.78



















































Phase II

LETTING DATE: 8-6-09

COMPLETION DATE: 10-15-10

CONTRACTORS: LUNDA CONSTRUCTION CO.

ENGINEER'S ESTIMATE: \$5,409,218.65

BID AMOUNT: \$4,484,024.83

ACTUAL COST: \$4,930,320.57

























































































































































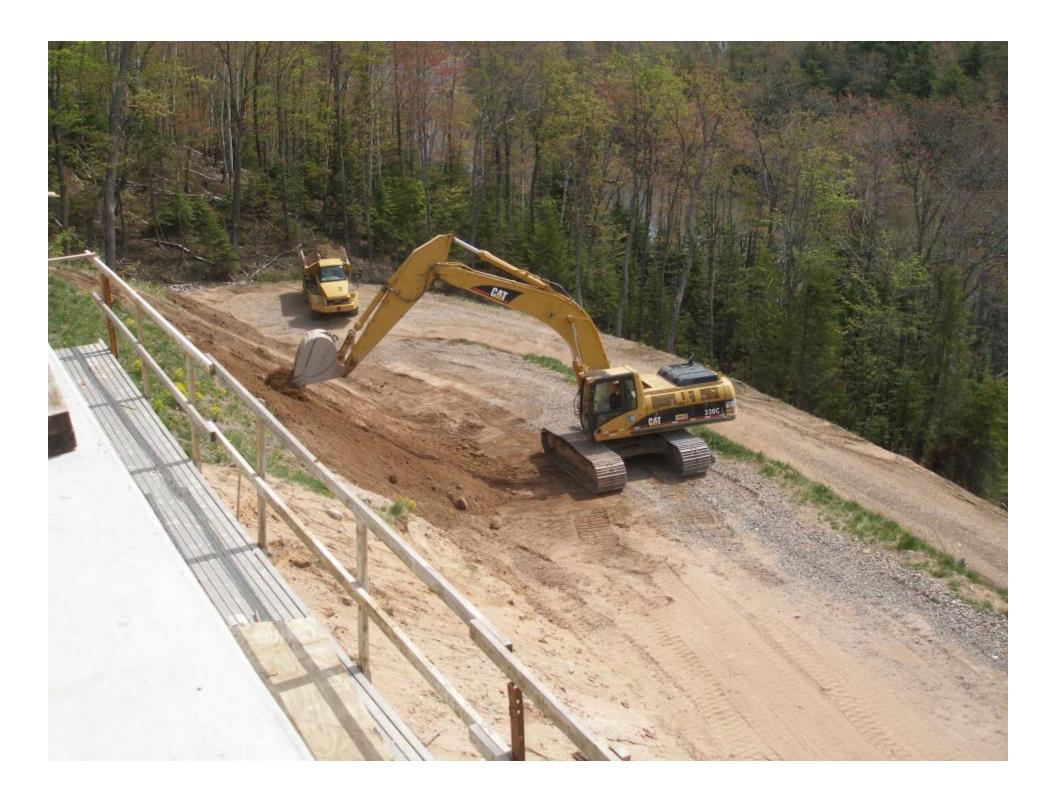
































































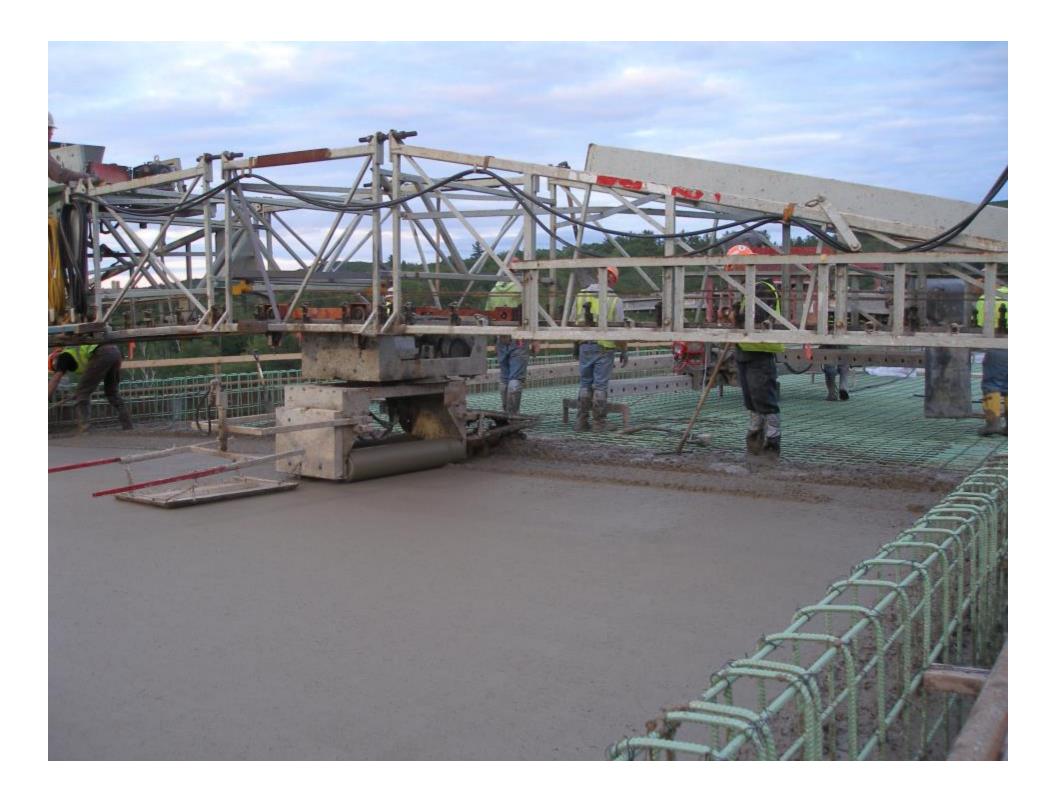


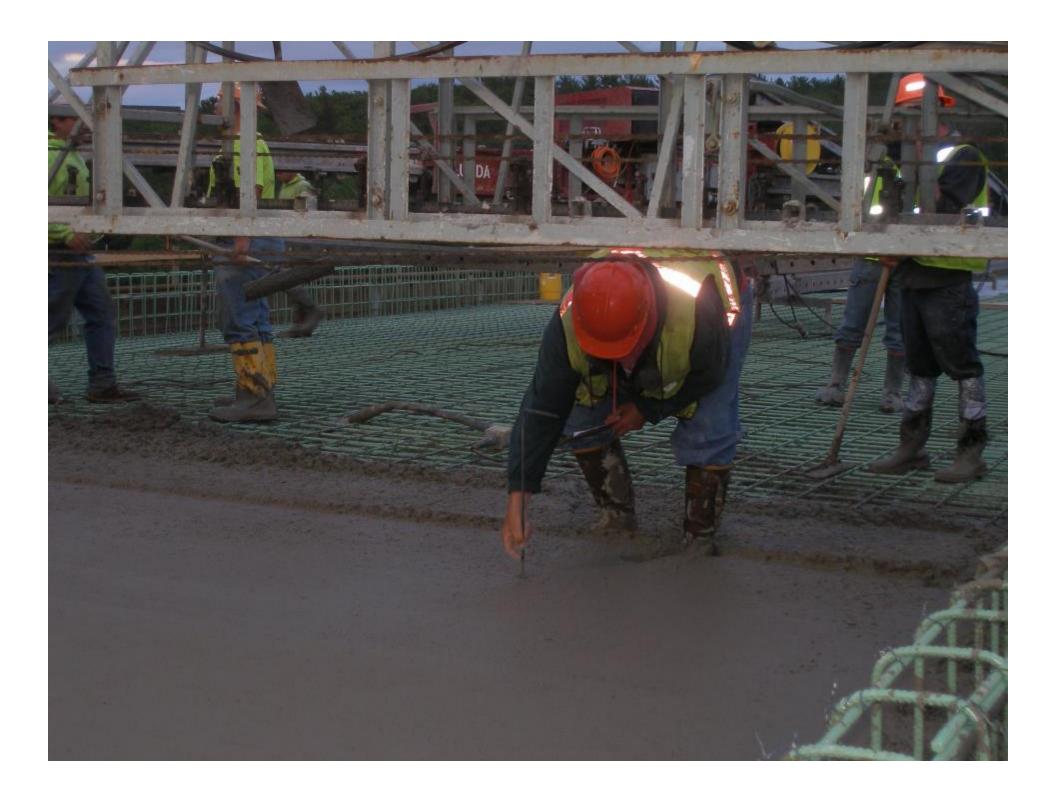


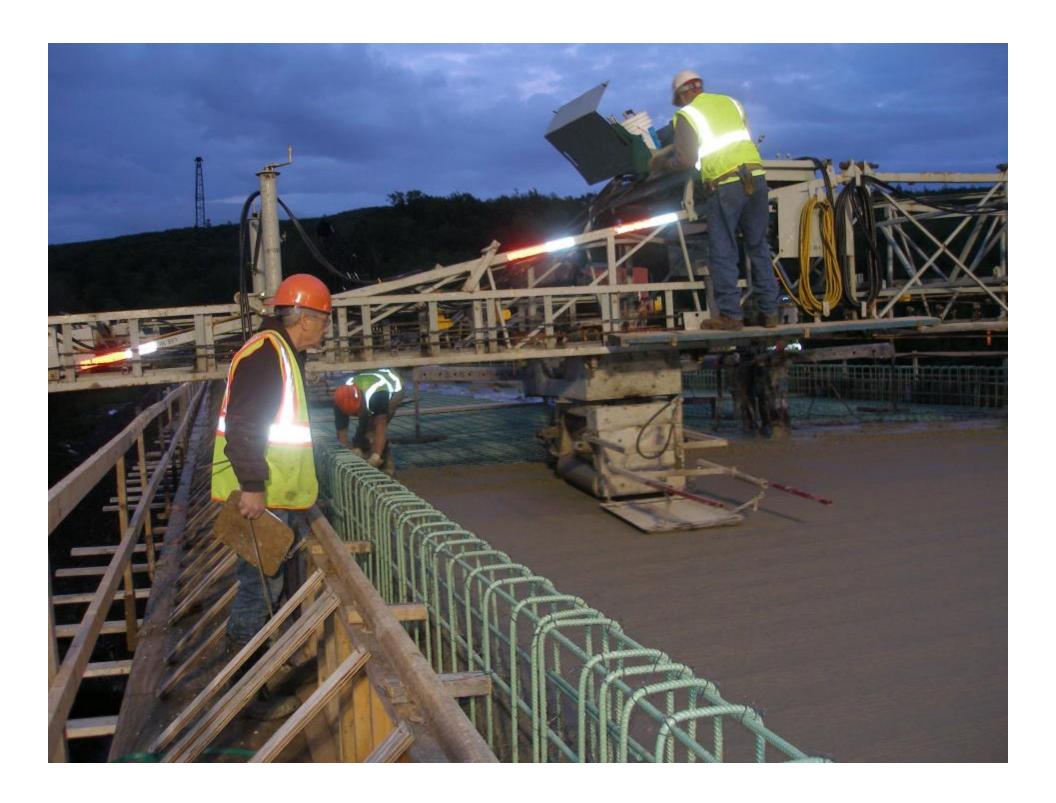


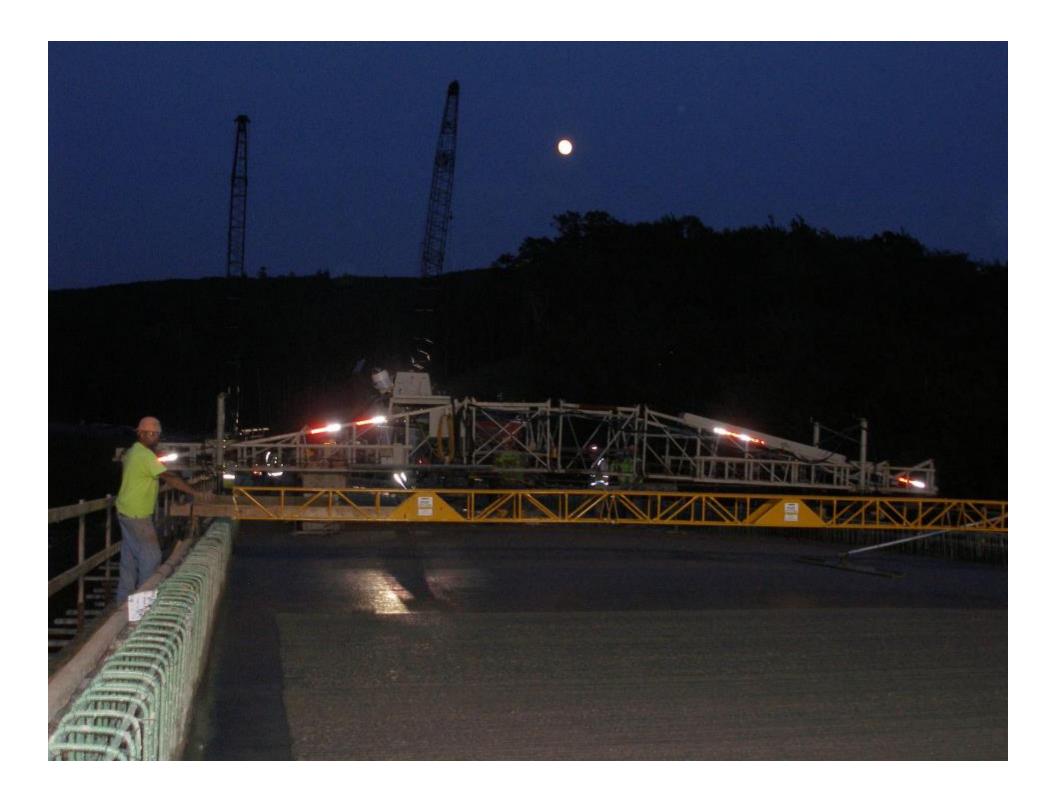


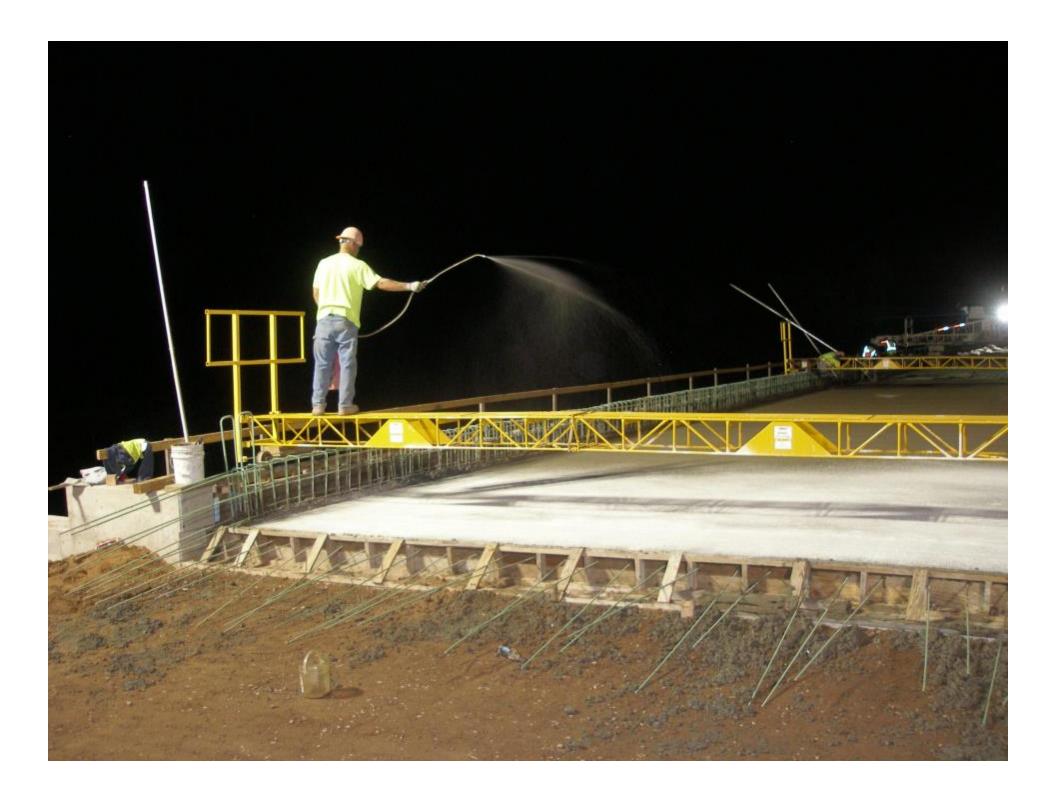


















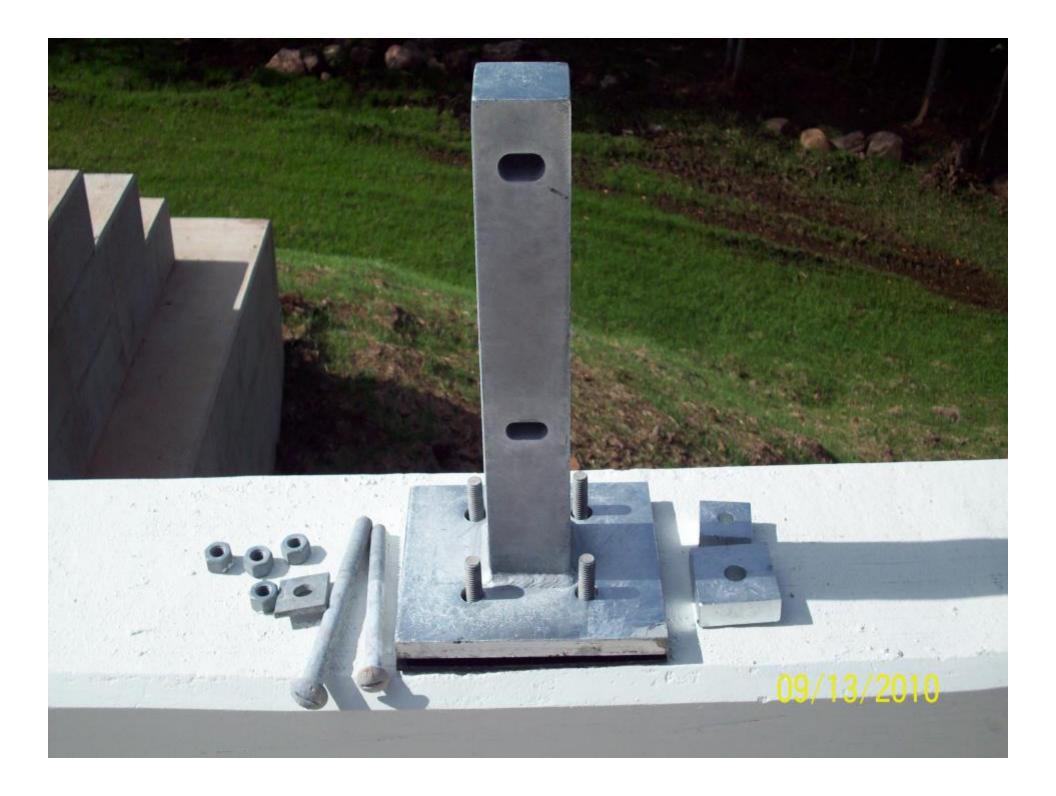




















































1921 BRIDGE FACTS

271 FEET LONG 20.01 FEET WIDE 10 FEET ABOVE THE WATER 1 SPAN

TOTAL COST: \$80,710

OPEN TO TRAFFIC: 1921

CLOSED TO TRAFFIC: 2010



2010 BRIDGE FACTS

532 FEET LONG 36.52 FEET WIDE 100 FEET ABOVE THE WATER 3 SPANS

TOTAL COST: \$6,668,597.35

OPEN TO TRAFFIC: 9-17-2010