



**CLIMAX BRIDGE REPLACEMENT
TRAIL COUNTY, ND & POLK COUNTY, MN**



PRESENTERS



Matt Lange, PE
Project Manager

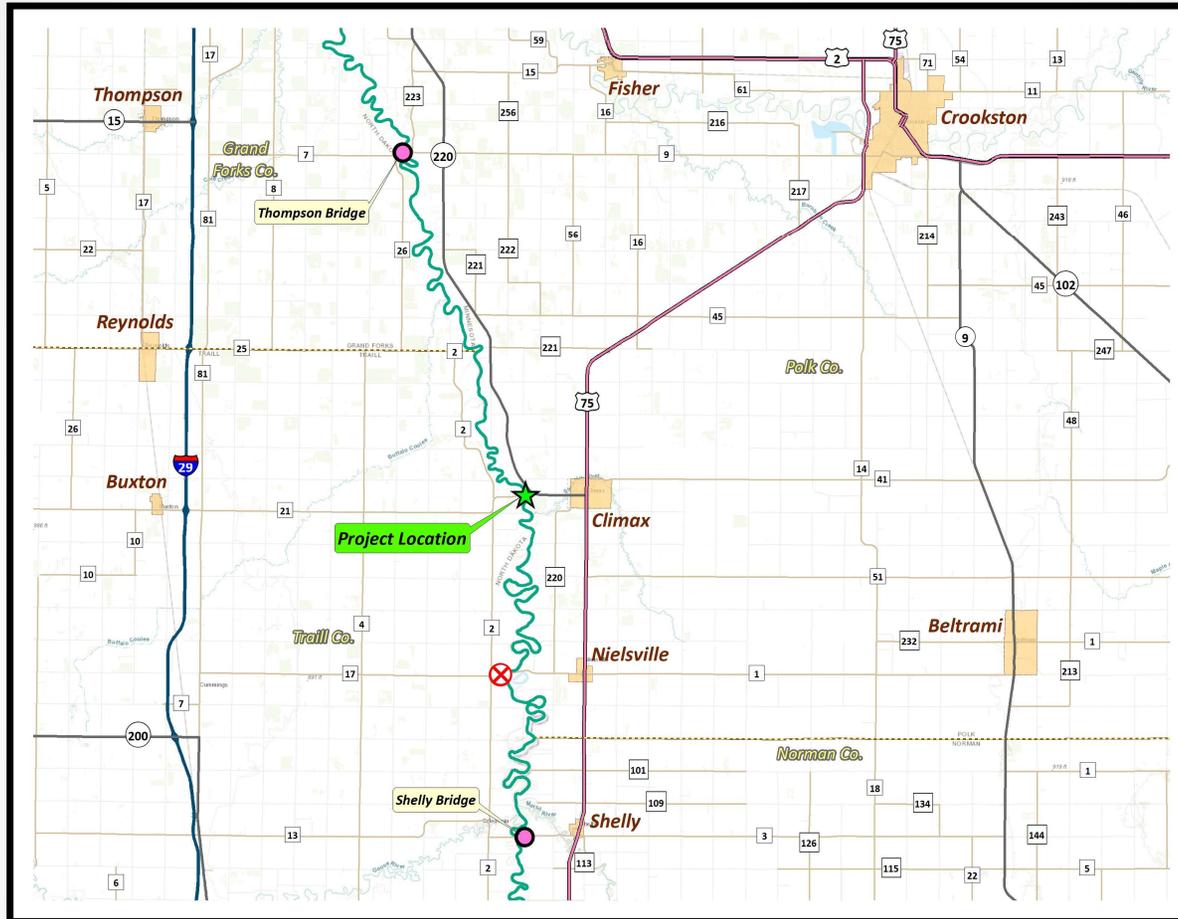


Sean Kelly, PE
Design Engineer



Zach Nelson, EI
Construction Inspection

BACKGROUND AND NEED FOR PROJECT



PROJECT PARTNERS



PERMITTING



EXISTING CONDITIONS



AREA OF ROADWAY OVERTOPPING

LOAD POSTED/HEIGHT RESTRICTED BRIDGE

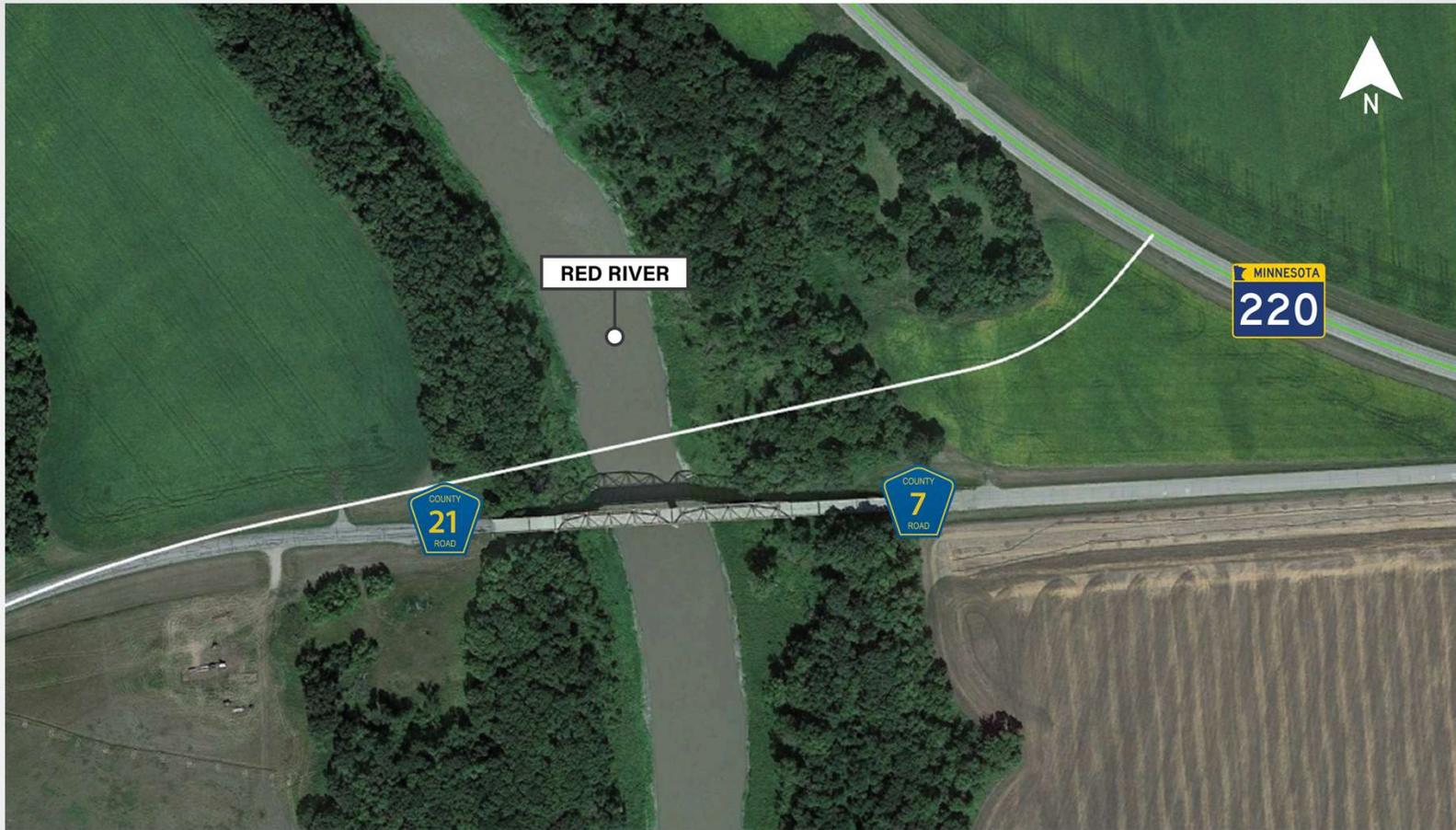
SKEWED INTERSECTION



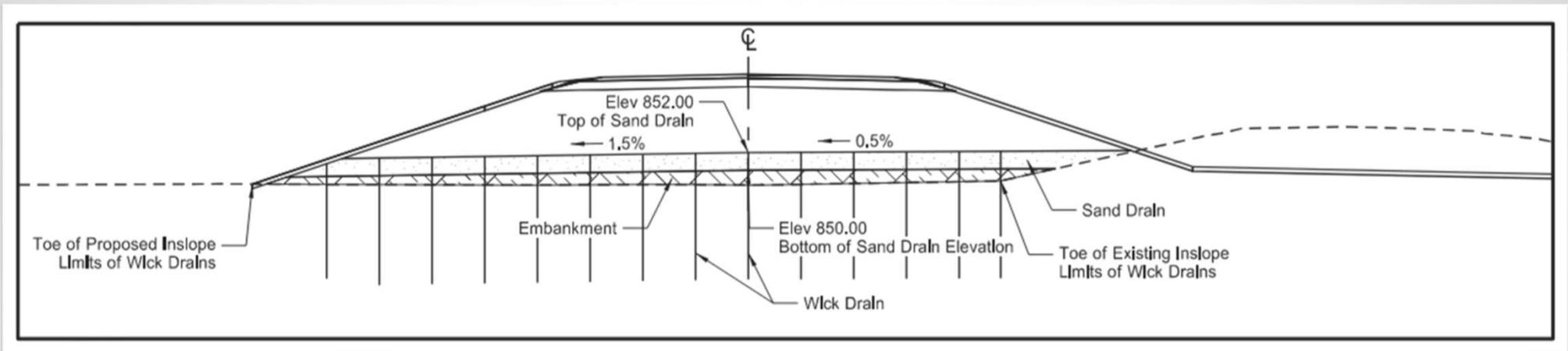
EXISTING CONDITIONS



ROADWAY DESIGN



GEOTECHNICAL DESIGN



BRIDGE DESIGN CONCERNS



> Soil movement



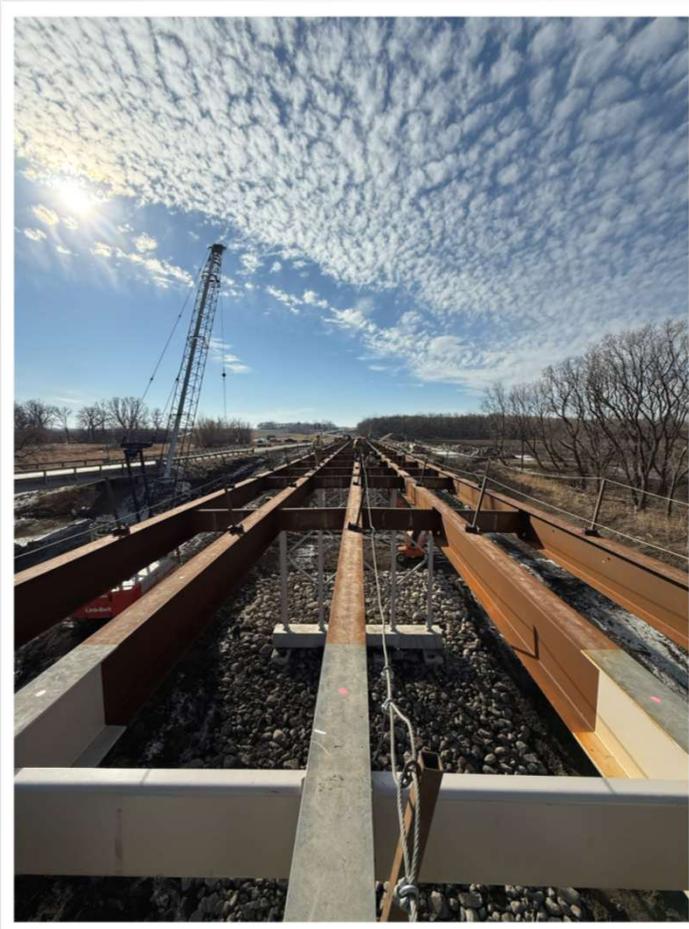
BRIDGE DESIGN



BRIDGE DESIGN



BRIDGE DESIGN SOLUTIONS CONT.



BRIDGE CONSTRUCTION

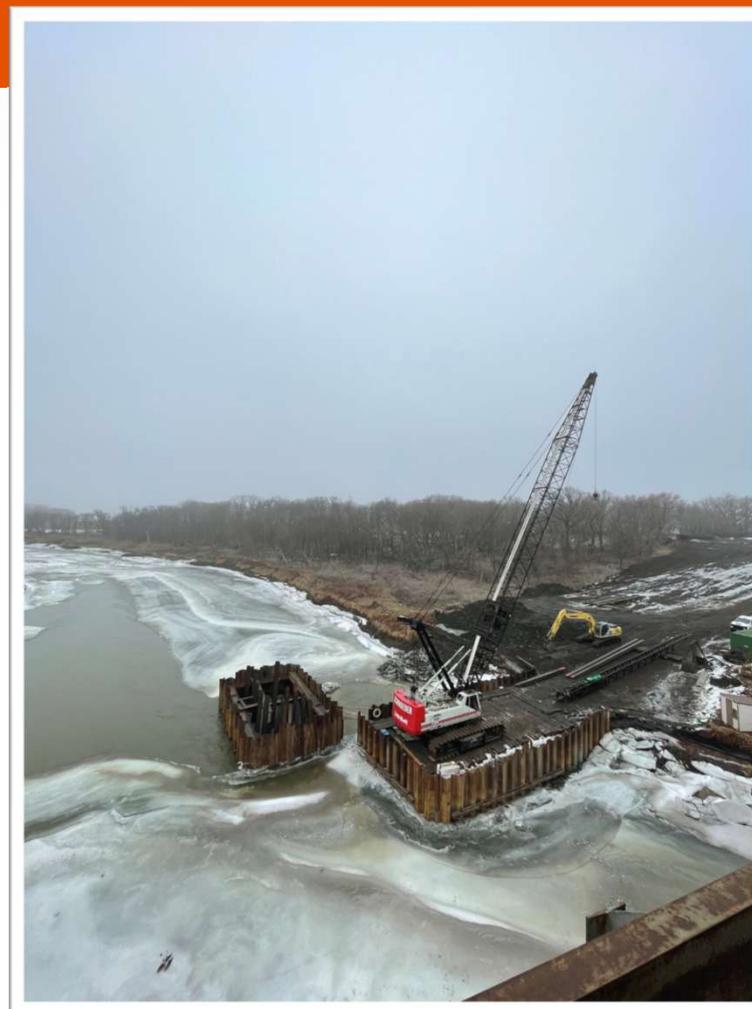


> Bid Opening

- > October 13, 2023
 - > Robert R. Schroeder Construction Low Bidder
 - > \$16,831,006.75

> Started Work

- > November 20, 2023
 - > Clearing and Grubbing
 - > Channel Excavation
 - > Constructing Causeway & Cofferdam



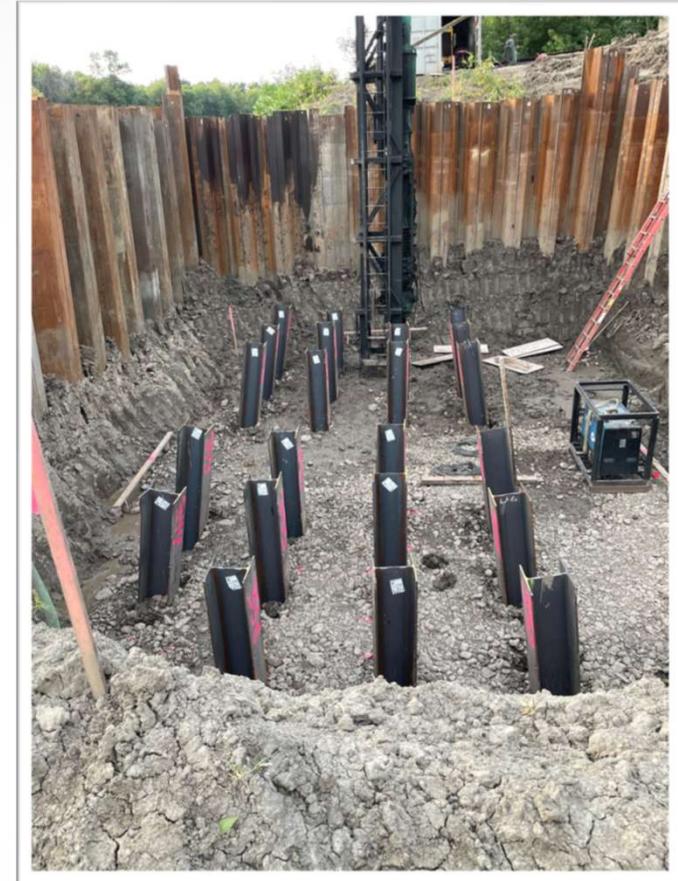
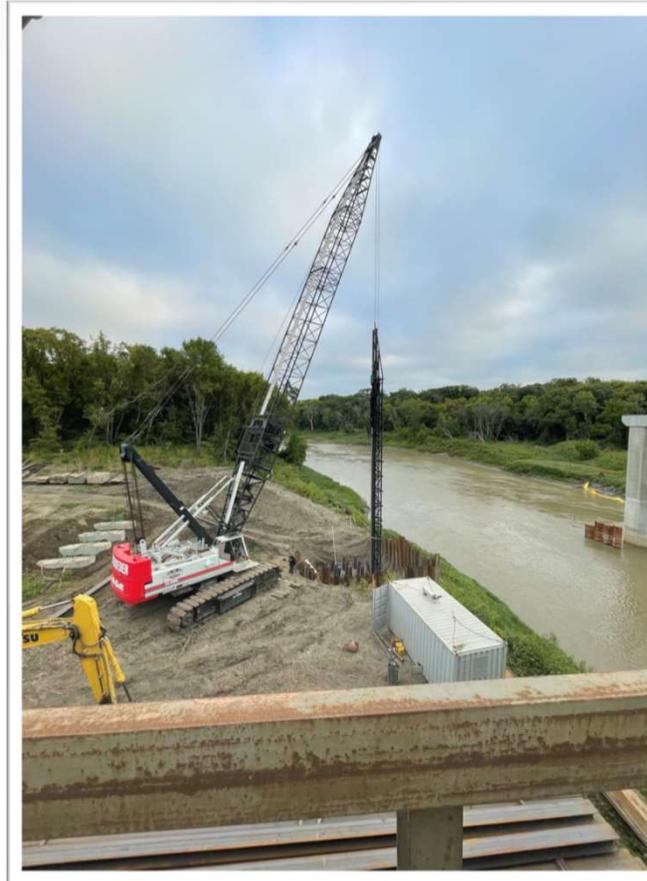
Slide 14

ML1 Should we add a bullet for when the new bridge was open for traffic?
Matt Lange, 2026-01-23T14:15:36.875

BRIDGE CONSTRUCTION - PILING



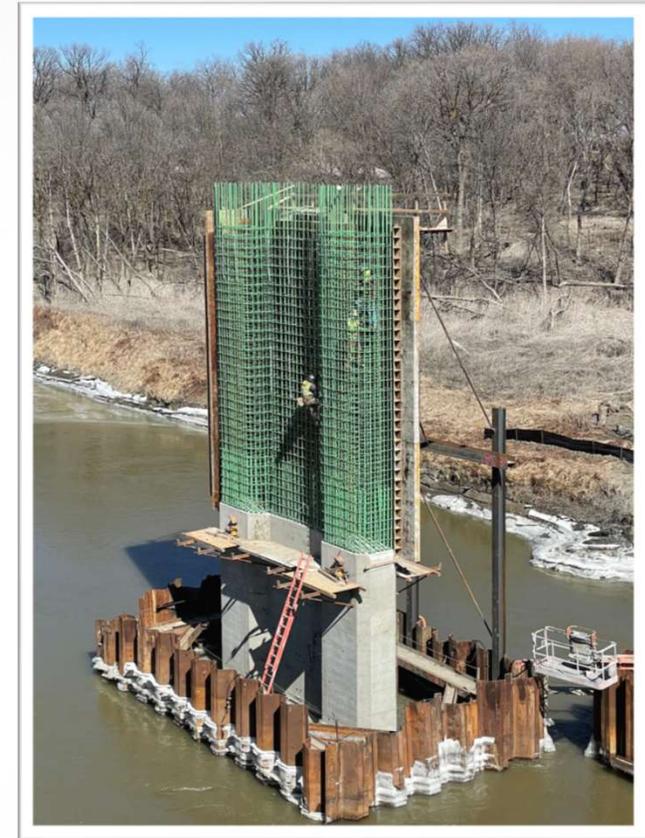
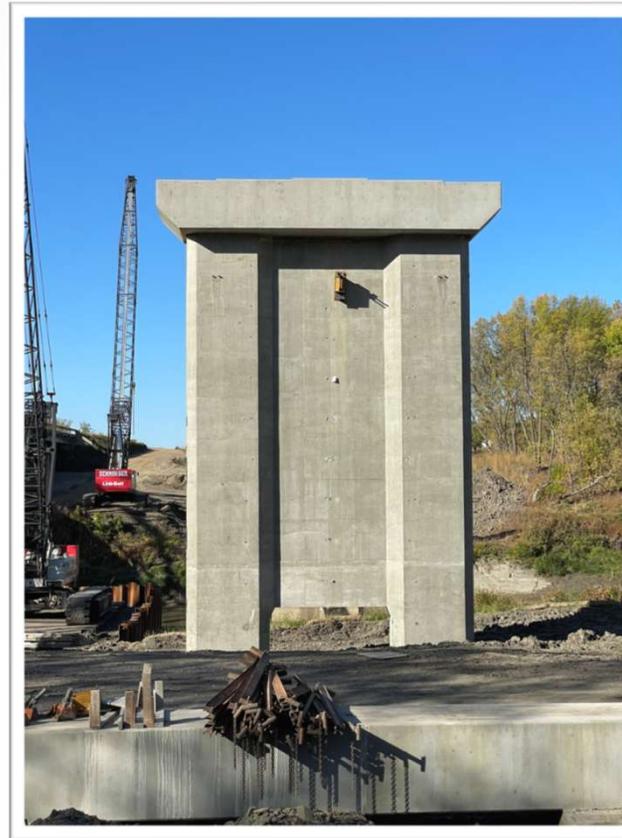
- 23,102.3 LF of piling
 - 4.4 Miles
 - Over a half mile under each of Pier 5, Pier 6 & Pier 7



BRIDGE CONSTRUCTION - SUBSTRUCTURES



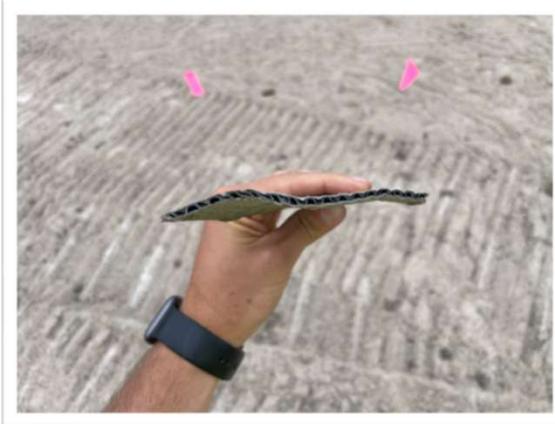
- 1338.1 CY of Concrete
 - 912.9 CY was Mass Concrete
 - Height of 80.09' from bottom of footing to top of deck at pier 6



BRIDGE CONSTRUCTION – WICK DRAINS



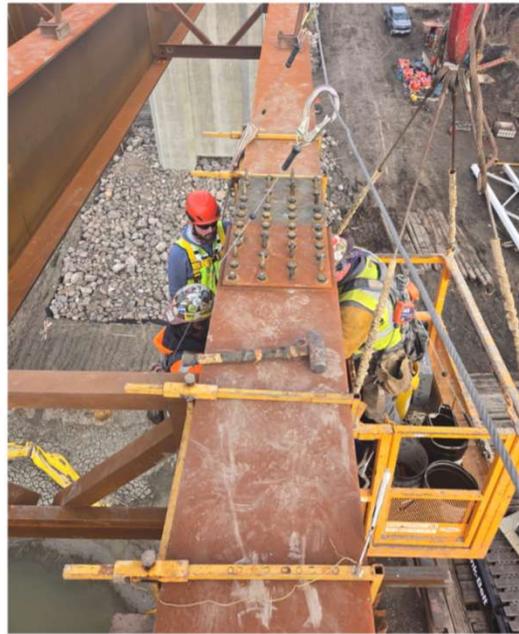
> 44,800 LF of Wick Drain



BRIDGE CONSTRUCTION – STRUCTURAL STEEL



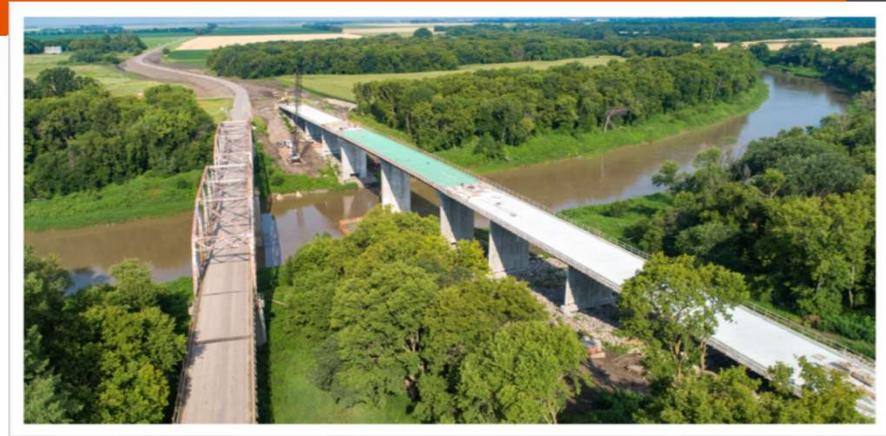
- > 1,028,020 LBS of Steel
- > 8,352 Bolts Tightened



BRIDGE CONSTRUCTION – DECK



- 941.8 CY Concrete
- 220,305 LBS Reinforcing
- Split into 3 units
 - 904' Total Length





FALL 2023





FALL 2024





SPRING 2025





SUMMER 2025





FALL 2025





BRIDGE OPENED OCTOBER 17, 2025



BRIDGE CONSTRUCTION - TIMELINE



1.



2.



3.



4.



5.



6.



