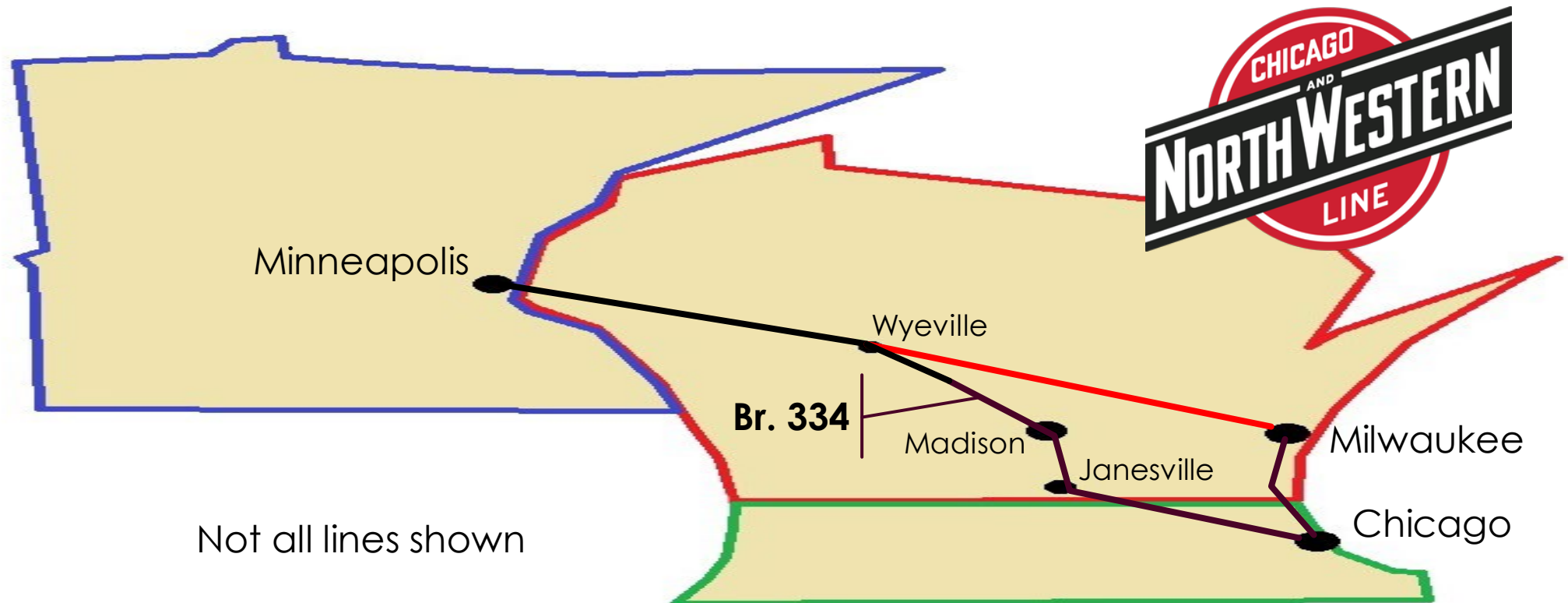




# Merrimac Bridge Update

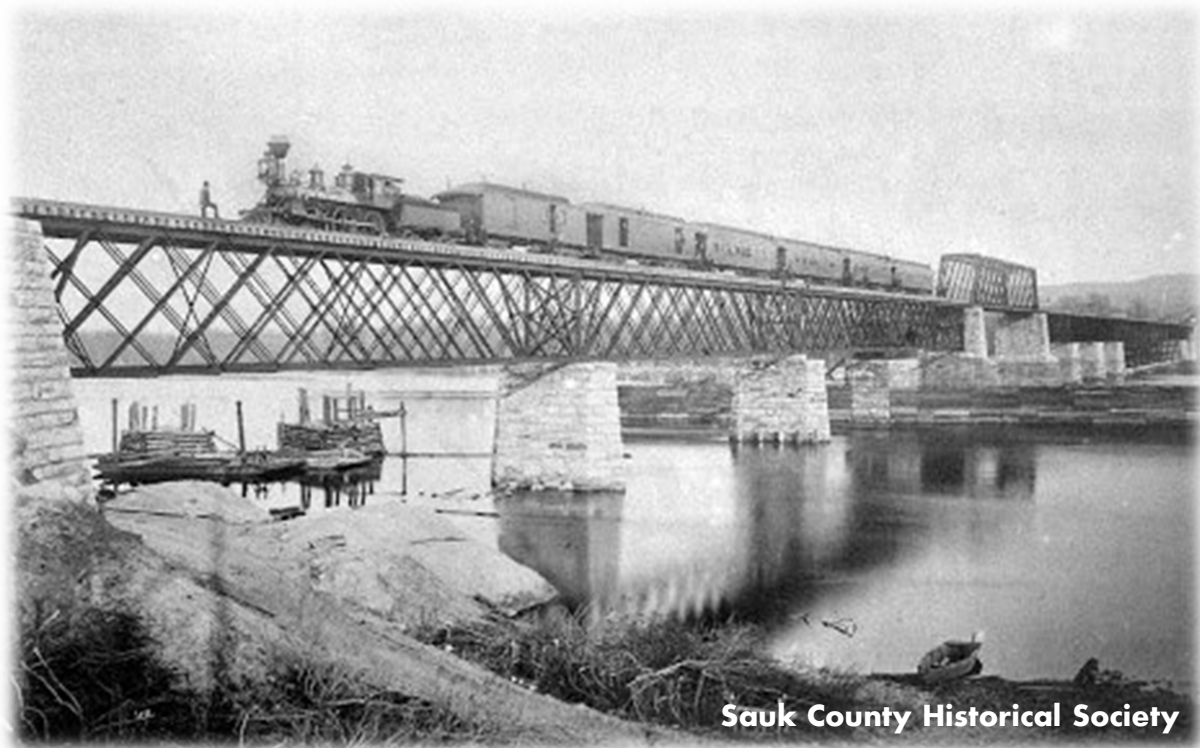
PHASE III MERRIMAC BRIDGE REHABILITATION PROJECT UPDATE

# Where we are coming from...



Not all lines shown

# Where we are coming from...



Sauk County Historical Society



N. Hofrichter Photo

# Where we are going...

## Securing freight rail service to Sauk County

- ▶ Improve Capacity
  - ▶ 286k minimum normal capacity at 25MPH operational speed
- ▶ Rehabilitate Condition
  - ▶ Address deterioration in substructure, superstructure, and deck
- ▶ Increase Resiliency
  - ▶ Make the structure easier to inspect and maintain

# Progress so far:

## Bridge 334 Rehabilitation

- ▶ Phase I – Completed by E80 Plus in 2018
  - ▶ Steel reinforcement to Span 2



# Progress so far:

## Bridge 334 Rehabilitation

- ▶ Phase II – Completed by Koppers in 2021
  - ▶ Replacement and upgrade of floor systems in Spans 2, 15, 16, 19, 20, 21, & 22
  - ▶ Reinforcement of upper and lower truss chords in Spans 21 & 22.
  - ▶ Misc. steel repairs in the portions of the superstructure to remain.



# Progress so far:

## Bridge 334 Rehabilitation

- ▶ Phase II – Completed by Koppers in 2021



# Phase III

## Bridge 334 Rehabilitation

- ▶ Phase III – Michels Construction
  - ▶ Commenced Early 2023
  - ▶ Expected Completion 2025
- ▶ Scope - Everything Else...

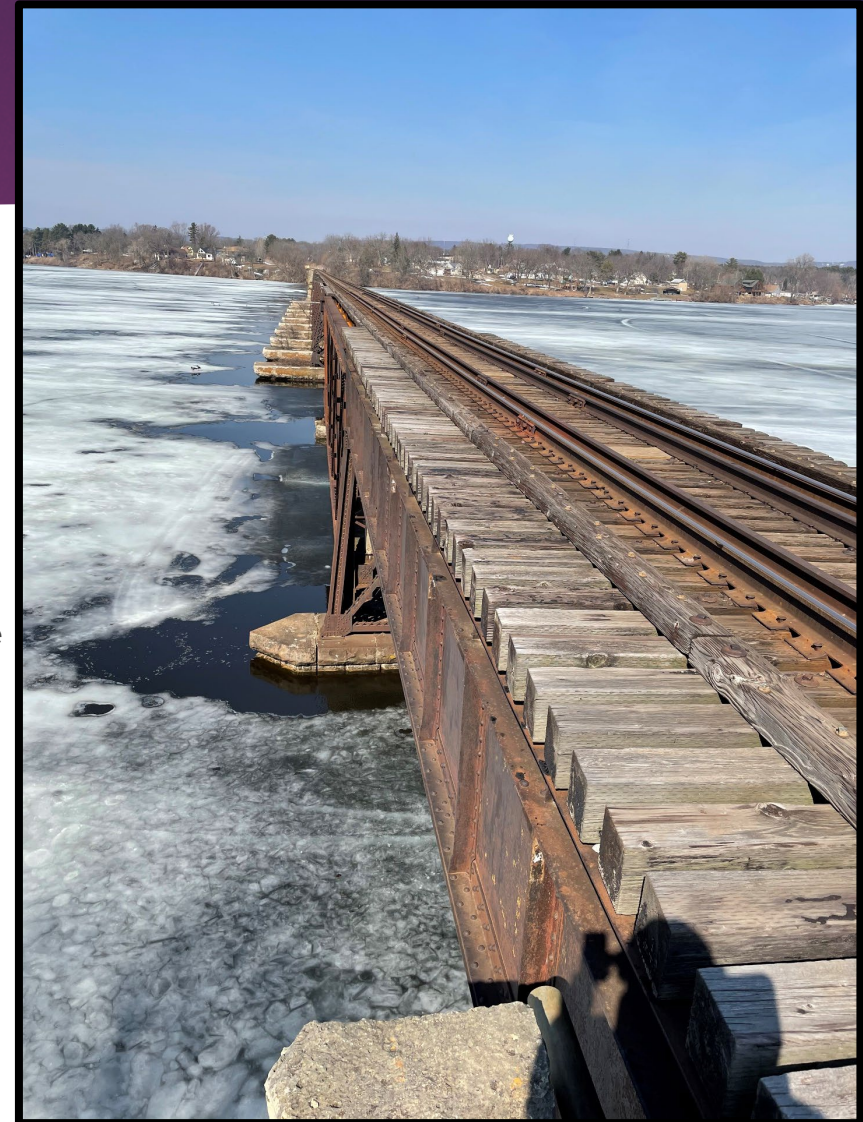




# Phase III

## Bridge 334 Rehabilitation

- ▶ Phase III Scope Top to Bottom
  - ▶ Deck
    - ▶ Replace tie deck over full length of bridge
    - ▶ Install personnel walkway over full length of the bridge
    - ▶ Realign track over bridge to eliminate gauntlet offset



# Phase III

## Bridge 334 Rehabilitation

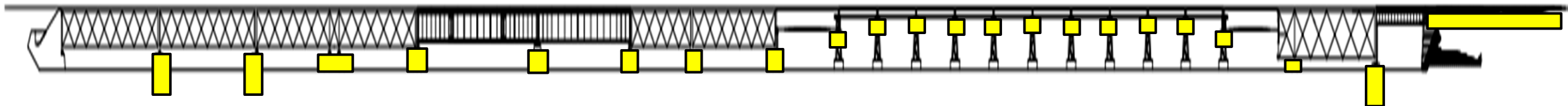
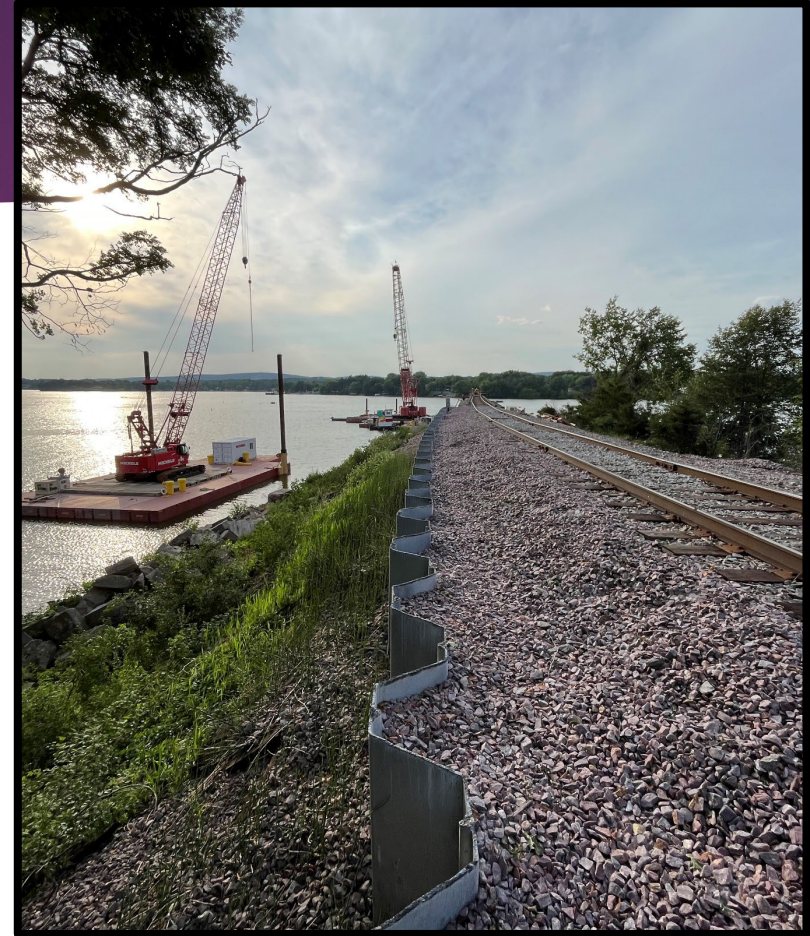
- ▶ Phase III Scope Top to Bottom
  - ▶ Superstructure
    - ▶ Replace Span 1 with ballast deck DPG
    - ▶ Replace Spans 4 through 13 with rolled beam spans
    - ▶ Replace Span 17 with 117' open deck DPG
    - ▶ Replace Span 18 with 150' open deck DPG
    - ▶ Modify of Spans 3&14 to eliminate coped section



# Phase III

## Bridge 334 Rehabilitation

- ▶ Phase III Scope Top to Bottom
  - ▶ Substructure
    - ▶ East Approach retaining wall – legacy of guantlet
    - ▶ Modify Tower Piers 4 thru 14 for new beam spans
    - ▶ Repair masonry at East & West Abutments
    - ▶ Restore concrete at Piers 3, 15, 16, & 17
    - ▶ Modify and rehabilitate Piers 18, 19, & 20
    - ▶ Install steel jackets on Piers 2, 21, & 22



# Phase III Progress to Date

Mussel Study & Relocation



Causeway Construction



# Phase III Progress to Date

East Approach Retaining Wall



Realign Track – Goodbye Gauntlet



# Phase III Progress to Date

East Abutment Masonry Repairs



West Abutment Masonry Repairs



# Phase III Progress to Date

Replacement of Spans 4 thru 13

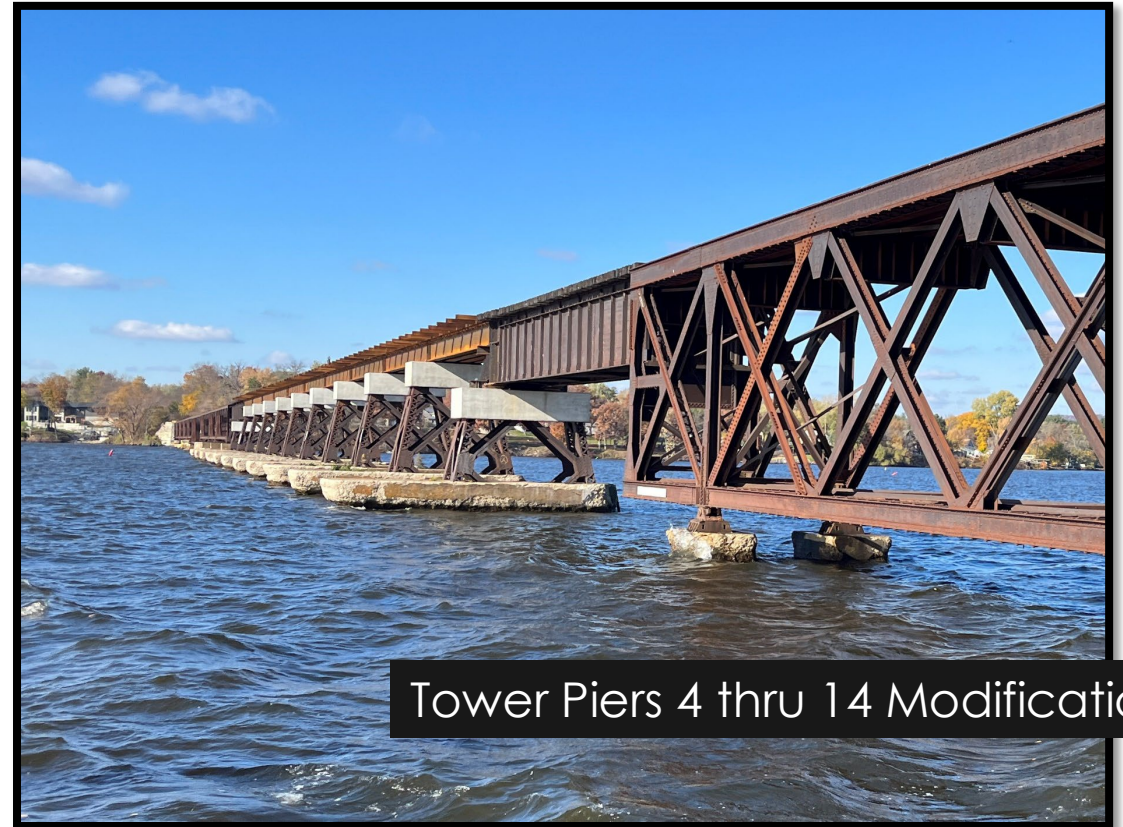


# Phase III Progress to Date

Spans 3 & 14 Modification



Tower Piers 4 thru 14 Modification





# Phase III Progress to Date

Deck Replacement Spans 4 thru 13



Span 1 Replacement

# Ongoing Effort – Merrimac & Beyond

