

Pedestrian Bridge Inspection Report

To: The City of Eau Claire

Inspector: Josh Makela (9669)

Inspection Date: 11/18/2020

Structure Number: PEDBR-07

Feature On: "High Bridge" RR Pedestrian Bridge

Location: "High Bridge" RR Pedestrian Bridge over the Chippewa River, 0.1 mi East of 1st St.

Latitude: 44 49 29.6

Longitude: 91 30 27.9

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Condition Ratings:

Very Good Condition – No problems noted.

Good Condition – Some minor problems.

Satisfactory Condition -Structure elements show some minor deterioration.

Fair Condition: Elements are sound but may have minor section loss, cracking, or spalling.

Poor Condition: Advance section loss, deterioration, or spalling.

Timber Elements:

Deck (RR Ties): Minor areas of water ponding on deck. Good Condition.

Timber Girders: Very good condition.

Steel Truss Elements:

The element was inspected from each shore with binoculars and from the deck above. There are a few connections with flaking rust where water can settle. Very minor section loss (approx. 5%) No sign of pack rust at bearing or other connections. All steel elements are uniform and show no sign of misalignment or sagging. Span 3, south truss, panel point L2 has crack in diaphragm plate. Fair Condition.

Bearings:

Bearing plates at east abutment are wood block (2 – 4"x6"). Good condition. Bearing at west abutment are within alignment limits and bolts show no sign of distress or misalignment. Satisfactory Condition.

All bearings at the piers are immobile and show no sign of distress. No misalignment of bolts or plates. Satisfactory condition.

Masonry Sandstone Pier:

5 Piers: All piers were in satisfactory condition.

At Pier 2, the top 2 layers of stone at the upstream nose are cracked.

At Pier 3, the top 7 stones at the upstream nose are cracked.

Masonry Sandstone Abutments:

Base of west abutment is deteriorating. Fair Condition. East Abutment is in good condition.

Utilities:

There is a 10-inch gas line hanging from the south truss. Very good condition.

Recommendations:

Mitigate ponding on deck.

Continue routine inspection at 24-month frequency.

Continue underwater inspection at 60-month frequency.



West Approach Looking East



East Approach Looking West



North Profile



South Profile



Upstream (North) Channel



Downstream (South) Channel



West Abutment



Looking East Through Span 2



West Face of Pier 1



East Face of Pier 1



West Face of Pier 2



East Face of Pier 2



West Face of Pier 3



East Face of Pier 3



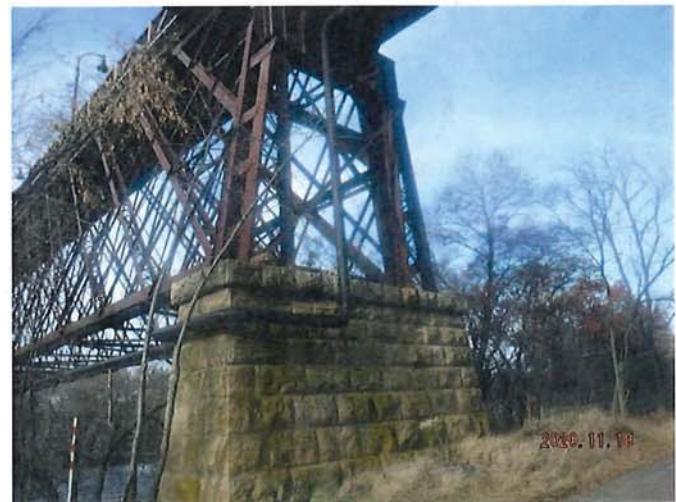
West Face of Pier 4



East Face of Pier 4



West Face of Pier 5



East Face of Pier 5



Typical Deck Underside Span 1



Typical Bearing at West Abutment



Typical Span 1 Girder Condition



Typical Deck Underside Span 2, 3 and 4



Typical Deck Condition



East Span Deck Underside