

B. M. ROSS AND ASSOCIATES LIMITED
Engineers and Planners
62 North Street, Goderich, ON N7A 2T4
p. (519) 524-2641 www.bmross.net

File No. BR1395

VIA EMAIL ONLY

February 23, 2024

Adam Stanley
Director, Transportation & Environmental Services
Transportation & Environmental Services
Corporation of the County of Bruce
30 Park St., Box 398
Walkerton, ON N0G 2V0

Dear Sir:

**Re: Durham Street East Bridge
County Structure 0419550
Condition of Half Joints**

BMROSS completed a review of the half joints on February 21, 2024 as requested by the County as part of a quarterly inspection program.

For the purposes of the field observations, the bridge was assumed to span east-west, with the river flow from south to north.

Site access was provided with a hydraulic platform from the south side of the bridge only. Aerial electric lines prevented access on the north side. There are 6 T-beams that support the deck. The work platform could be extended to fully access the southerly 4 T-beams. The soffit and the south face of the 5th beam, and the north beam, were visible from close range from the access platform. The north edge beam and the north face of the 5th beam (from the south) were not able to be reached.

The hydraulic platform allowed BMROSS to make visual and tactile observations. The report dated June 17, 2019 by BMROSS, and the report dated January 12, 2024 by Burgess Engineering Inc. (BEI), as well as photos provided by BEI were reviewed as part of the inspection.

The condition of the joints does not appear to have worsened since the inspections completed to prepare the January 12, 2024 report noted above. However, we are of the opinion that the joints are in worse condition than they were in 2019 by comparison of the photos taken as part of the June 17, 2019 report.

We are of the opinion that the current load posting (15T – 25T -30 T) should remain in place and that the joints should be reinforced in 2024. Quarterly inspections should continue to take place until the reinforcement is completed.

Some photos are provided in Appendix 1. Additional photos were taken as part of the review and have been saved in our files for future review. They can be shared with the County upon request.



Yours very truly

B. M. ROSS AND ASSOCIATES LIMITED

Per

A handwritten signature in blue ink, appearing to read "RJM", written over a horizontal line.

Ryan J. Munn, P. Eng.

RJM:hv

APPENDIX 1

PHOTOS

FEBRUARY 21, 2024 REVIEW



2024 – South Exterior Beam – East Joint



2024 – East half Joint - Interior



2024 – South Exterior Beam – West Joint



2024 – West Half Joint - Interior