



BMROSS
engineering better communities

B. M. ROSS AND ASSOCIATES LIMITED
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File No. 77048

BY EMAIL ONLY

August 23, 2017

Larry McGregor
Interim Director of Public Works
Township of North Huron
274 Josephine Street, Box 90
Wingham, ON N0G 2W0

Dear Sir

RE: Blyth Rail Trail Overpass

On July 21, 2017, BMROSS performed a structural inspection of the rail trail bridge in Blyth. The OSIM report was previously sent.

At the time of our inspection, one deck plank was missing and the gap partially covered with plywood. Temporary barriers were placed at each end of the deck.

With the dimensions of the steel beams, we were able to do a quick analysis of the main structural members. It appears that they are an appropriate size to support normal pedestrian loads of 4.8 kPa.

We understand that a trail groomer machine has a gross weight of 7 tons (3,176 kg) and we have analyzed the structure for this load, assuming that the length of the load is about 3.6 m. Based on these assumptions and allowing for appropriate load factors, it is our opinion that the existing steel beams, in their current condition, can safely support the load of the trail groomer. Please note that the strength and stability of the twin beam structure relies on the existing metal clip connections of the wood deck on top of the beams.

It is our opinion that the bridge is safe for normal pedestrian use and for the 7 ton trail groomer for one year in its current condition, if the gap from the missing deck plank is covered from curb to curb with plywood. Within one year, the wood deck should be replaced or re-assessed for strength. The other work should be done within five years.

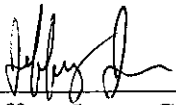
Please contact us if you have any questions,

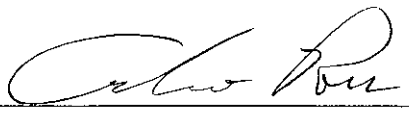
Yours very truly

B. M. ROSS AND ASSOCIATES LIMITED



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Per 
Jeffrey Jones, Graduate Engineer

Per 
A.I. Ross, P. Eng.