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Stantec

March 30, 2011
File: 112311041

City of Victoria
Streets Division
417 Garbally Road
Victoria, BC V8T 2J9

Dear Hector Furtado:

Reference: Johnson Street Bridge: Steel Repairs

Stantec completed an inspection of the underside of the main span of the Johnson Street Bridge on Tuesday March 29, 2011. The inspection was done using the gantries below the road bridge and the rail bridge.

During the inspection we found two locations on the rail bridge where we recommend scheduling immediate repairs. These locations are shown in further detail in Figure 1 below.

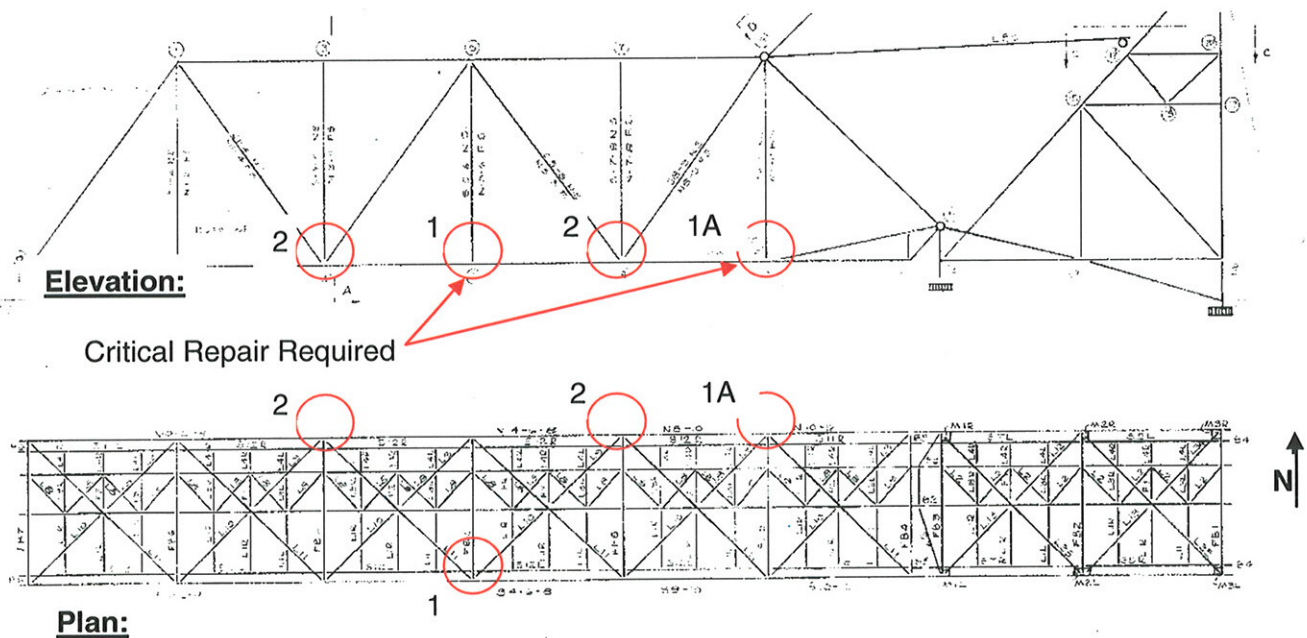


Figure 1: Rail Bridge Steel Repairs

The critical areas are the panel points where the deck is hung from the vertical truss member and there are no diagonal members to share the load.

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Critical repair detail 1 requires at least 2 repairs and can be seen in further detail in Figure 2 below.



Figure 2: Photo of Critical repair 1 at Rail Bridge

Critical repair detail 1A is similar to critical repair detail 1, except that all 4 angles need to be repaired. The repairs will all be similar to the repair sketch that Andrew Rushforth provided for member 15-16 on the South counterweight frame, with the welds extending at least 12" each way past the deteriorated area. A detail of the required repairs is shown in Figure 3 below.

Less serious deteriorated areas occur on the verticals that go up to the top truss from the lower panel points, shown as detail 2 on Figure 1. These locations require all 4 angles to be repaired, but perhaps could be stayed if rail traffic is not to be reinstated on the bridge.

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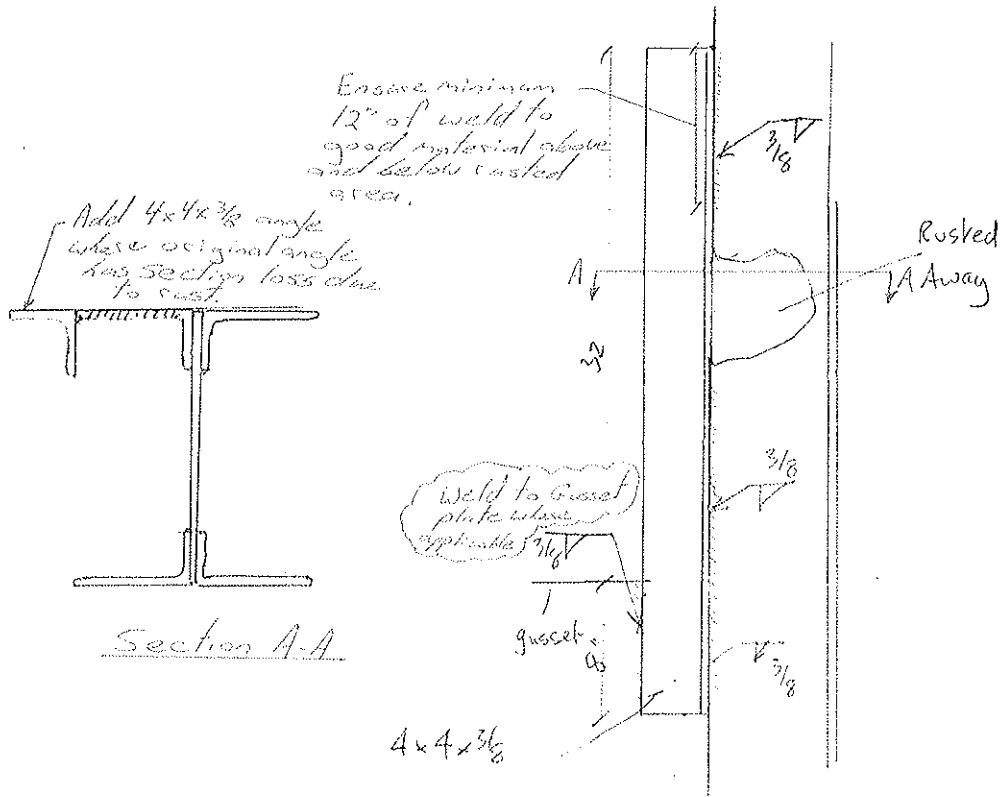


Figure 3: Typical Repair Sketch

During the inspection of the road bridge we also found two areas that should be repaired. These repairs were not identified as critical, but should be coordinated with the other more urgent repairs. The locations of these repairs can be seen in Figure 4. There are also bearing stiffeners under the fixed spans that should be replaced at the same time as these repairs are being done. We estimate that there are 3-4 bearing stiffeners that will require repairs at this time. Stantec will coordinate the exact locations and repair details while this work is taking place.

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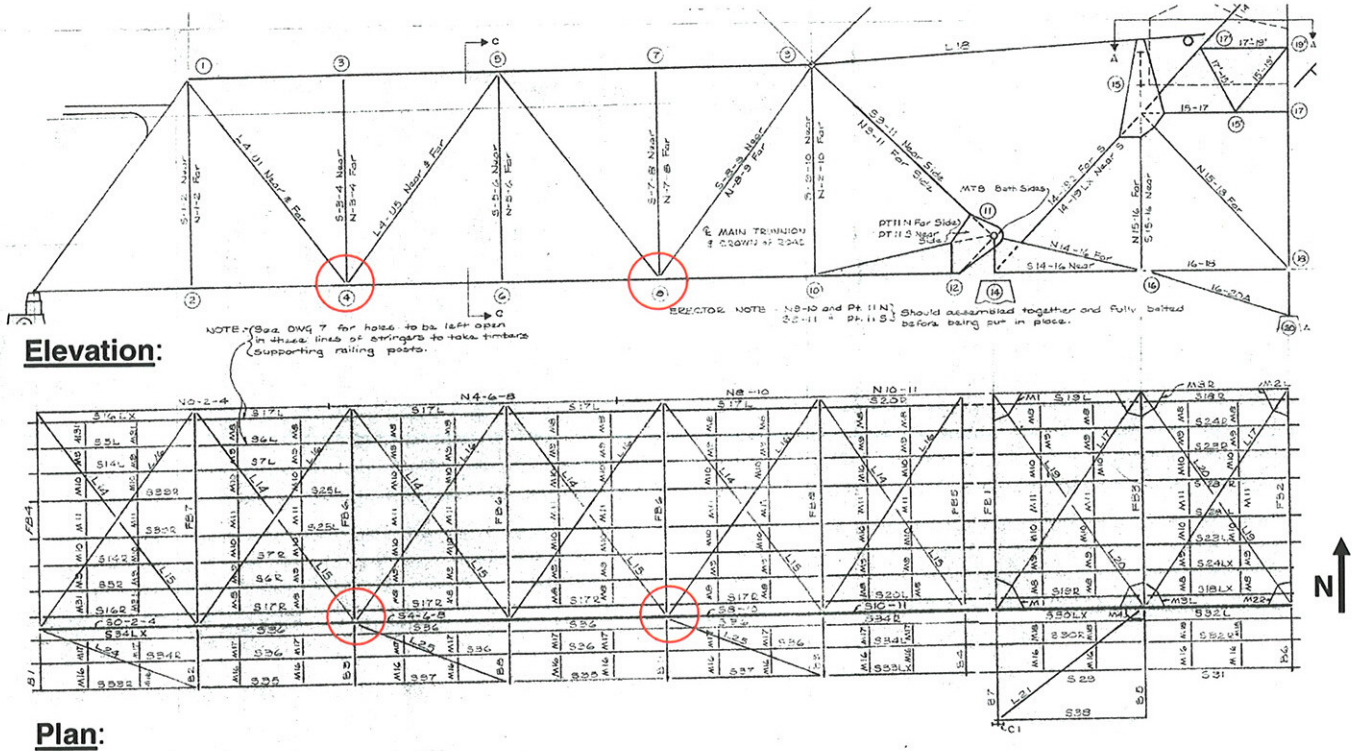


Figure 4: Road Bridge Steel Repairs

Both locations require repair to the two South facing angles. Further detail of the area to be repaired can be seen in Figure 5.

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Figure 5: Photo of Recommended Repair Location at Road Bridge

This photo was taken at the furthest west location, but is typical of both areas that require repairs. Repairs should be completed as per Figure 3 above.

Please contact Paul Dudzinski, or Bryan Gallagher at (250) 388-9161 if you have any questions or concerns.

Regards,

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