



September 18, 2017

## Algonquin drops pre-cambered vehicular bridge into rural Ontario community in time for school

When the community of Clarence-Rockland, southeast of Ottawa, needed a replacement bridge for a small stream crossing, a custom-designed Girder Bridge from Algonquin Bridge was the solution of choice.



### Project at a glance:

**Project Name:** Boileau Girder Bridge

**Location:** Clarence-Rockland, Ontario

**Owner:** Clarence-Rockland

**Engineer:** HP Engineering Bridge

**Designer:** Algonquin Bridge

**Contractor:** Arnco Construction

**Product:** Custom Girder Bridge, standard highway traffic loads

**Application:** Stream Crossing

**Dimensions:** Length 20.9 m and 42.7 m, Width 5 m (clear inside guiderails)

**Installation Time:** One Day

The contractor on this project, Arcco Construction, had a very positive experience with The AIL Group on a similar design-build bridge project in 2015. They were happy to be back in that comfort zone and to be using Algonquin Bridge on this one.

### **A quick and easy girder bridge installation**

The crossing was the only connection for several homes on a dead-end road, so the bridge needed to be installed quickly to minimize road closure time and to be ready for the start of the school year — and the school buses.

### **Algonquin applied 100 mm camber to this girder bridge**

The bridge was designed for standard highway traffic loads. To reduce load deflection, a 100 mm camber was added to the girders at the factory before the modules were built. As the contractor was planning to paint the bridge on-site, we supplied the girders with their ends pre-painted.

The two longitudinal sections, along with the guiderail components and hardware, were shipped on one trailer load.

### **An Algonquin Bridge featuring a painted steel deck with complete joint-penetrating welds**

The bridge also featured a textured steel deck with a painted finish. Also, complete joint-penetrating welds at the deck surface joints allowed for ample run-off at each end of the bridge.

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