



Atlantic Industries Limited

PROJECT PROFILE



September 20, 2020

AIL's Bolt-A-Plate is the go-to culvert replacement option for northern Alberta project

When a set of three old culverts needed to be replaced under Township Road 722, about 33 km southwest of High Prairie, the project team went with a single, much larger culvert made from AIL's Bolt-A-Plate Structural Steel Plate. Available in the widest variety of shapes and sizes, Bolt-A-Plate is obtainable on short lead times and is also very quick to install. In fact, it has really become the go-to replacement for old culverts and short span bridges in Canada.



Project at a glance:

Name: Coalmine Lick Creek

Location: 33 km SW of High Prairie, Alberta

Owner: Big Lakes County

Engineer: MPA Engineering Ltd.

Contractor: Northsite Contractors Ltd.

Plate Assembly Contractor: R B Multi-Steel Construction Ltd.

Sector: Transportation

Application: Culvert Replacement

Product: Bolt-A-Plate Round

Dimensions: Diameter 4.3 m, Length 47.6 m

Installation Time: Five days



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To follow the creek alignment, the new culvert had to be installed at a 30° skew to the road. The new culvert featured step-bevelled ends with a cast-in-place concrete collar on the upstream for better hydraulics.

Replacement culvert assembles in five days

Working within a six-week road closure, site work started on July 25, 2020 with Northsite Contractors' excavation, removal of the old culverts and site preparation. The Bolt-A-Plate components were delivered on July 30. Assembly by Northsite's subcontractor, R B Multi-Steel Construction, took place over five days, from August 6 to 11. Northsite completed backfilling and final gravelling of the road was completed on Sept. 8, 2020 — weeks ahead of the October 31 contractual completion date.

A special thanks to the owner and their consultant, MPA Engineering, for selecting this type of structure. Also, the Northsite / R B Multi-Steel team were great to work with. Kudos to them for quickly alerting us to an issue, which we were able to resolve the same day thanks to a quick run from our Westlock location only three hours away. Northsite's representative shot us a quick e-mail:

"Thank you for your diligence and quick organization today. It's greatly appreciated!"

—Shaina Fersch, Health & Safety Coordinator / Field Administrator,
Northsite Contractors Ltd.

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