



Atlantic Industries Limited

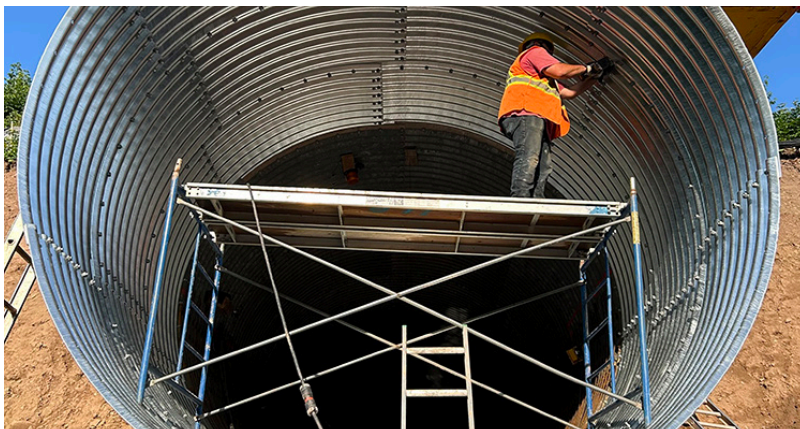
PROJECT PROFILE



September 11, 2024

NBDTI rehab project uses Bolt-A-Plate extensions to help extend life of aging culvert near Moncton, NB

The New Brunswick Department of Transportation and Infrastructure (NBDTI) needed to address a deteriorated culvert at McQuade Brook in Scotch Settlement. Rather than going with a full replacement, they opted to rehabilitate the structure.



Project at a glance:

Name: Rehabilitation of (M266) McQuade Brook No. 1

Location: Scotch Settlement, NB

Owner: NBDTI

Consultant: Hilcon Limited

Contractor: Caldwell & Ross Limited

Sector: Transportation

Application: Stream Crossing

Product: Bolt-A-Plate Round

Dimensions: Diameter 4.3 m,
Total length 7.4 m



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This involved protecting the structure's invert area with a concrete infill, removing the bevelled ends and adding two rings of 4.3 m Bolt-A-Plate Round on the inlet end and four on the outlet end. In addition, concrete cut-off walls and headwalls were added at the ends to help prevent scouring and to accommodate a fish ladder.

End view of Bolt-A-Plate culvert extension install

Great care was taken to get the precise diameter of Bolt-A-Plate to marry up to a competitor's older product. The attachment went quite well, but the old culvert was a bit deformed at the top and a little effort was required to adjust it to line up with our new plate.

Thanks to clear communication with our AIL team and the contractor, Caldwell & Ross, all expectations were understood and met. Our materials arrived at the site ahead of schedule and the project progressed smoothly with no significant challenges.

Culvert relines and rehabs can save time and money

Rehabilitations represent a more sustainable approach that can help salvage older storm sewer, culvert or bridge structures and avoid the cost and safety and environmental issues of full replacements. These can often be in the form of relines. These custom-fit inserts are made to order from our Bolt-A-Plate, Dur-A-Span or Corrugated Steel Pipe, according to the size and application requirements. Ask an AIL Representative how you can save time and money by relining older structures.

[See all Project Profiles on ail.ca](http://ail.ca)



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