



Atlantic Industries Limited

PROJECT PROFILE



Polymer-Coated Box Culvert replaces failing NL concrete bridge

Constructed in the early 1970s and refurbished in the late 1980s, the old concrete bridge over Northeast Brook in Trepassey, NL, was undeniably a candidate for full replacement by 2015.

That's when the Newfoundland and Labrador Department of Transportation and Works (NLDTW) said "enough is enough" and replaced it with a new Polymer-Coated Super•Cor Box Culvert with MSE Precast Panel Wingwalls from AIL. No doubt the prospect of a 75+ year design service life was too good to refuse.

Province's Modular Bridge System drops in for a piggyback

We ran into a kindred spirit on this project when the Province's own Algonquin Modular Bridge System showed up to help with the traffic diversion. In this case, the bridge system was installed piggyback-style, on top of an even older concrete bridge just upstream from this site.

Project at a glance:

Name: Northeast Brook Bridge Replacement

Location: Route 10, Trepassey, Newfoundland and Labrador

Owner/Engineer: Newfoundland and Labrador Department of Transportation and Works

Contractor: Southern Construction (1981) Ltd.

Products: Super•Cor Box Culvert with Best-Kote, MSE Retaining Wall System (Precast Panel Walls)

Application: Bridge Replacement / Stream Crossing

Dimensions: Span 12 m, Rise 3.4 m, Length 13.8 m

Installation Time: 15 days – Box Culvert Assembly: 5 days; Wing Walls Assembly: 10 days, including backfilling of Box Culvert



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Structural Plate has a strong history in Newfoundland and Labrador

Our NL operations are always strong performers in our Canada-wide network. Structural Plate is a natural for the harsh environments and remote locations of this rugged region. Our corrosion/abrasion-resistant Dur•A•Span Aluminum has been a mainstay in the coastal zones (especially Box Culverts), but Super•Cor and Bolt-A-Plate have also been a big part of it. Plus, our first installation using Ultra•Cor — the world's strongest structural steel plate — was near Corner Brook in 2013.



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Take a 360° drone-video tour of
this project

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