



Atlantic Industries Limited

# PROJECT PROFILE



January 28, 2022

## Another NL coastal community goes with long-lasting Dur-A-Span for culvert replacement project

Maddox Cove is a very picturesque fishing village on the eastern shore of the Avalon Peninsula near the city of St. John's, NL. When a failing culvert structure along the shore road needed to be replaced, the project partners did what so many other NL communities have done — they opted to go with a long-lasting, corrosion/abrasion-resistant Dur-A-Span aluminum structure from AIL.



### Project at a glance:

**Name:** Maddox Cove Culvert Replacement

**Location:** Petty Harbour-Maddox Cove, NL

**Owner:** Town of Petty Harbour-Maddox Cove

**Consultant:** SNC Lavalin

**Contractor:** Dexter Construction Company Limited

**Sector:** Transportation

**Application:** Culvert, Stream Crossing

**Product:** Dur-A-Span Pipe Arch

**Dimensions:** Span 4.34 m, rise 2.92 m, length 15 m

**Installation Time:** Assembly of plate, two days; backfilling, two days (after the concrete headwall)





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This coastal location was a perfect application for AIL's Dur-A-Span to demonstrate its strengths — the ability to stand up to pounding saltwater surf and scour challenges, which it's capable of doing for 75 years and more. In this case, it was a wide-mouthed Pipe Arch Culvert with a protective cast-in-place concrete headwall on the ocean side, and a sloping cut-bevel on the inland side that met the requirements best.

### Geometry needed to accommodate existing sanitary sewer line

There was an existing sanitary sewer line above the existing culvert and we had to collaborate with the consultant, SNC Lavalin, to determine that the geometry we used would not interfere with the location of this line.

In fact, we worked with them right from the concept stage to the tendering process. This ensured they had a good knowledge of the structure cost and delivery timelines. We also worked closely with the contractor, Dexter Construction, from the bid stage through final construction to ensure things went smoothly. Post-project contact with SNC Lavalin confirmed that the owner was very happy with the structure.

### Over 75 years of design service life

Lightweight, strong and easy to install, Dur•A•Span is a corrosion/abrasion-resistant solid aluminum alloy structural plate that can provide over 75 years of design service life in saltwater and aggressive soils. Spans can reach up to 12.2 m (40') with AIL's latest innovations in reinforcement rib technology.

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