



Atlantic Industries Limited

PROJECT PROFILE



Dur•A•Span Box Culverts keep low profile in Ontario project

When very low-rise culverts were needed to connect an industrial development's stormwater system to an overflow pond on the other side of a busy highway, AIL designed and supplied a set of Dur•A•Span Aluminum Structural Plate Box Culverts to fit the bill.



Project at a glance:

Project Name: James Snow Parkway Bridge

Location: Highway 25 and James Snow Parkway, Milton ON

Owner: Municipality of Halton

Consultant: Genivar

Consultant: AMEC

Contractor: AECON

Product: Dur•A•Span Box Culverts with Type II and Type IV Aluminum Reinforcements

Sector: Urban

Dimensions: Span 3.96 m, Rise 0.91 m, Length 35.25 m

Installation Time (start to finish):
Two weeks



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Significant grade and hydraulic requirements called for very low and very wide culverts — a format that could not be easily achieved with concrete boxes.

The owner, consultants and contractor were more accustomed to using concrete products, so time was required up front to demonstrate the benefits of aluminum over concrete — lighter weight, lower cost, faster installation, to name a few.

The project brought some unique challenges:

- It pushed us to manufacture a tighter radius box than we had ever produced before.
- Extra precision and care were required to install on skewed, cast-in-place footings.
- Aluminum areas that contacted cast-in-place concrete needed to be coated.
- The AIL Technical Sales Representative's clear communication with all parties and diligent on-site assistance helped ensure a successful outcome.



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Head Office:

32 York Street
Sackville, New Brunswick
Canada E4L 4R4
1-877-245-7473



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