



Atlantic Industries Limited

PROJECT PROFILE



Dur•A•Span reline solution keeps Alaska Highway running

When an aging steel culvert needed to be replaced on the 70-year-old Alaska Highway in BC, an innovative Dur•A•Span reline solution was chosen to avoid a costly detour and prolonged traffic interruptions.

Aggressive conditions called for aluminum

It was determined that the site's aggressive environmental parameters had caused the corrosion of the existing steel structure, so corrosion/abrasion-resistant Dur•A•Span was recommended.

Lightweight Dur•A•Span was a natural choice

The Dur•A•Span round pipe was mostly built outside the existing structure and slid into place using a slipline method. Structural aluminum plate is one-third the weight of steel, making it easier to handle with less torquing. Grouting filled the space between the two structures, which was larger than usual due to sagging in the middle of the old culvert.

Project at a glance:

Name: Dur•A•Span Alaska Highway Project

Location: KM 380.7 Alaska Highway,
Northeastern British Columbia

Owner: Public Works and Government Services
Canada

Consultant: Real Property Services Branch,
Pacific Region

Contractor: Neelco Builders Ltd, Chilliwack, BC

Type of Product / Application: Dur•A•Span
Round reline of an existing steel structure

Sector: Transportation

Dimensions: Diameter 3.509 m, length 53 m

Installation time (start to finish):
Sept 14, 2011 to Oct 19, 2011



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Excessive settlement required a smaller reline

We did the initial work-up and conceptual for Public Works Canada in 2004, when the existing structure's invert was first showing corrosive perforation. Then the project was shelved for a few years. When it was resurveyed in 2010, it had sagged further and our reline structure now had to be re-engineered to be smaller but still able to satisfy the hydraulics and fish passage requirements.

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