



Atlantic Industries Limited

PROJECT PROFILE



April 9, 2019

Welded Lockseam Corrugated Steel Pipe called for on Yukon's Alaska Highway

An effective CSP solution for permafrost zones with high settlement ranges and “pull-apart” forces

Drainage culverts installed in permafrost zones are susceptible to potential high settlement ranges and “pull-apart” forces. Both the Government of Yukon Department of Highways and Public Works (HPW) and the Alaska Department of Transportation have found that Welded Lockseam Corrugated Steel Pipe (CSP) in 3.5 mm wall thickness has the required strength and performance to be an effective solution for drainage culverts up to 1,200 mm in diameter.

AIL manufactured and supplied 268 lineal metres of Welded Lockseam CSP for use along the Yukon's Alaska Highway. Following fabrication in our Armstrong, BC plant, the pipe was sent through a second process, applying a continuous weld to the pipe's exterior lockseam — end to end on each section. To achieve a high degree of

Project at a glance:

Name: Welded Lockseam CSP on Alaska Highway

Location: South of Beaver Creek, Yukon

Owner/ Engineer: Government of Yukon
Department of Highways and Public Works

Contractor: Cobalt Construction

Sector: Northern, Transportation

Application: Culverts

Product: Welded Lockseam Corrugated Steel Pipe

Dimensions: 800 mm (222 lineal metres) and 1,000 mm (46 lineal metres), Thickness 3.5 mm



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quality, we invested in an automated process with a welding procedure that was documented and reviewed by the Government of Yukon HPW prior to the manufacturing run.

Trench design featured geotextile, rigid insulation and geogrid

The Government of Yukon HPW trench design was lined with a heavy woven geotextile and 100-mm-thick rigid polystyrene boards. In addition, the backfill envelope around the pipe was reinforced with six layers of biaxial geogrid.

The Welded Lockseam Corrugated Steel Pipe was used at various locations between kms 1,818 and 1,868 along the Alaska Highway.

Following on-time delivery of the pipe and couplers, AIL team members visited one of the sites to meet with the contractor's on-site team and a Government of Yukon HPW representative to ensure everything was in order and to offer any technical assistance.

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