

PROJECT PROFILE



September 3, 2019

Five large Polymer-Laminated CSP Culverts underway for MTQ

Culverts will stand up to high concentrations of acids and alkalis, with a design service life of over 75 years

As part of a two-year contract, AIL is supplying five large Polymer-Laminated Corrugated Steel Pipe Culverts for the Ministère des Transports Québec (MTQ). One of the largest structures is now being installed at Saint-Roch-de-l'Achigan, under highway ramps for Autoroute 25.

High cover requirement

To satisfy the MTQ's 8 m cover requirement on this project, the contractor had to have ± 6 m of 16 kN/M3 backfill material sandwiched between the required granular fill around the culvert and the road.

The contract comprises five culverts of 50 m or more in length, but in various diameters: two at 3,300 mm, two at 3,000 mm and one at 1,800 mm.

Project at a glance:

Name: Autoroute 25

Location: Saint-Roch-de-l'Achigan

Owner: Ministère des Transports Québec

Engineer: Roy Consultants

Contractor: Construction GNP

Sector: Transportation

Application: Drainage

Product: Corrugated Steel Pipe

Dimensions: Five culverts over 50 m long; Diameters 3,300 mm (2), 3,000 mm (2), 1,800 mm (1)



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A design service life of over 75 years

MTQ has taken a longer-term view of their infrastructure projects with their decision to go Polymer-Laminated. Polymer Laminate is a tough, heavy-gauge film that is laminated to both sides of galvanized steel to produce a corrosion and abrasion barrier for the most aggressive environments. Polymer- Laminated CSP will stand up to high concentrations of acids and alkalis, with a design service life of over 75 years.

Potential cost savings

Polymer-Laminated CSP can be less expensive across all diameters of concrete pipe. Its exceptional durability provides the potential for reduced lifecycle costs. Plus, CSP can be formed into longer, nestable lengths that are substantially lighter than concrete, making it easier to transport and install.

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Head Office:

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



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