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30-metre prefabricated hiking trail bridge frames approach to Nova Scotia's picturesque St. Margarets Bay

Trail bridge Design-Build project part of overall Highway 103 connector

A graceful, painted Bowstring Truss design from Algonquin Bridge frames up a rather beautiful view of St. Margarets Bay for motorists entering the area via the new Highway 103 connector at Ingramport, near Halifax. However, it's the trail users who really get the best views as they cross the new span on the historic rails-to-trails route.



Project at a glance:

Project Name: St. Margarets Bay Trail Bridge

Location: Ingramport, Nova Scotia

Owner: Nova Scotia Department of Transportation and Infrastructure Renewal

Engineer: Harbourside Engineering Consultants

Contractor: Dexter Construction

Application: Trail Overpass

Product: Custom Prefabricated Bowstring Trail Bridge

Dimensions: Span 30 m, Width 4 m

Installation Time: Three to four hours

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The new trail bridge was provided through a design-build solution and was the final component of a three-year project to create a new exit along a 20-km section of the main route serving the South Shore. Using 3D modelling to optimize the structure, Algonquin engineers created the design with an H-Section floor beam to facilitate easy delivery in two sections and quick on-site installation.

Trail bridge spliced and placed in half a day

Daily communication with the contractor, Dexter Construction, helped ensure everything went off without a hitch. The bridge sections were delivered, spliced together and placed within four hours. Dexter remarked that it couldn't have fit more perfectly on the abutments.

As per the Nova Scotia Department of Transportation and Infrastructure Renewal's specifications, we gave the bridge a long-lasting, three-layer paint system that will provide many years of low-maintenance service in this coastal environment.

Our AIL Group sibling company, Atlantic Industries Limited, was also involved on this connector project, with the design and supply of a stream crossing using a Super•Cor Low-Profile Arch with Vist-A-Wall Precast Panel Walls.

Algonquin trail bridges can be found across Canada

Algonquin has developed a specialty in recreational trail and pedestrian bridges with many installations across Canada.

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Get a bird's-eye view of this graceful, painted Bowstring Truss design from Algonquin Bridge