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Temporary Modular Panel Bridge maintains traffic flow during bridge replacement on Gaetz Avenue in Red Deer, AB

An Algonquin Modular Panel Bridge with pedestrian walkway is keeping both vehicular and pedestrian traffic flowing along busy Gaetz Avenue while a permanent replacement bridge is being built.

The existing bridge over Waskasoo Creek was a cast-in-place concrete arch culvert originally constructed in 1912 and widened to four lanes in 1957. As part of a project to replace the bridge, upgrade



Photo courtesy of Graham Construction

Project at a glance:

Project Name: Gaetz Avenue / Waskasoo Creek Bridge Replacement

Location: Red Deer, AB

Owner: City of Red Deer

Project Consultant: Stantec

Contractor: Graham Construction & Engineering Inc

Sector: Transportation Bridge Solutions

Application: Temporary Detour Bridge

Products: Algonquin Modular Panel Bridge

Bridge Dimensions: Span 30.48 m, Width: 7.35 m, Walkway Width: 1.5 m

utility lines and improve flood control, the city required a two-lane temporary detour bridge with a dedicated pedestrian walkway to minimize the impact of the construction. We also provided 10' deck extensions for each end of the bridge which reduced earthwork and the need for backwalls and wingwalls.

The rented detour bridge was critical to maintaining the project schedule. Fabrication of custom components was required before delivery and this required clear communication between the contractor and our team. Installation of the bridge bearings and anchors revealed some discrepancies between the drawings and the parts on hand, but our on-site representative and our dedicated engineering team resolved the problem quickly.

Canadian-made “Bailey Bridge” style rental bridges are easy to install

Algonquin Bridge offers Canadian-made Modular Panel Bridge Systems to rent for both short-term and long-term temporary applications. These pre-engineered “Bailey Bridge” style bridges have been proven many times in rental applications. Local teams with minimal experience can easily assemble these temporary bridges on site and they can be either lifted into place or cantilever launched from one side.



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