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## Algonquin Temporary Modular Bridge provides construction access in Niagara Falls entertainment district

This Algonquin Temporary Modular Bridge was used to provide construction access to Clifton Hill while a retaining wall on the property was being reinforced on this hotel/attractions site.

Travelodge Niagara decided to tear down a couple of rooms in order to provide access to the retaining wall from an adjacent surfaced parking lot. The access crossed over top of their underground parking garage, so a bridge was required to properly bear the weight of the construction vehicles.

The construction area was quite tight, so managing the bridge delivery and assembly timing was key.

### Project at a glance:

**Project Name:** Clifton Hill Temporary Bridge

**Location:** 4963 Clifton Hill, Niagara Falls, Ontario

**Owner:** Travelodge Niagara (Clifton Hill Group)

**Consultant:** Hallex Engineering Ltd.

**Contractor:** Rankin Construction Inc.

**Sectors:** Private Development, Urban Bridge Solutions

**Application:** Construction Access Bridges

**Product:** Algonquin Modular Bridge

**Dimensions:** Span 12.2 m, width 4.2 m

**Installation Time:** Two days

## **Poor soils required extra attention on temporary bridge's abutment design**

The bridge was located on soils that were of poor quality so we worked very closely with the abutment design team at Hallex Engineering to advise on the bridge load reactions.

Constant communication among the entire project team helped ensure a successful project outcome. An Algonquin representative was on-site to meet with the owner, Clifton Hill Group, prior to delivery and again to help during the assembly. The bridge was assembled and placed on schedule by Rankin Construction so the retaining wall project could move forward as planned.

## **Algonquin Temporary Modular Bridges are easy to install**

The Algonquin Modular Bridge System uses 3 m pinned panels to achieve clear spans of more than 82 m. They are easy to assemble with local crews and equipment. Designs can be configured for a wide range of roadway widths up to three lanes. Driving surfaces can be either steel decks with asphalt pavement or anti-skid, epoxy-aggregate coating. Timber decking is also available.



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