

The Hudson Bridge Public Information Centre

To help keep you informed during the Information Session, the following is a breakdown of the information contained in the presented information boards. Should you have any questions comments or concerns please contact Kevin Hawley (Khawley@GreerGalloway.com) by
 March 14th, 2019

Hudson Bridge Replacement Modular Bridge (Single Lane & Pedestrian Walkway)

Due to the simplicity of the fabrication and assembly of its modular components, modular bridges are becoming exceedingly popular around the world. These bridges are built using a unit-assembly system that can be arbitrarily added to and each bridge can be adapted to meet the requirement of its site.

Pros

- Rapid Availability
- Lightweight Constituent Parts
- Light inherent weight due to high-strength steel
- Short Construction Time
- Inexpensive

Cons

- Does not match original truss style

**Estimated Date of Completion:
 October 2019**

Hudson Bridge Replacement Truss Bridge (Single Lane & Pedestrian Walkway)

Truss bridge is a type of bridge whose main element is a truss which is a structure of connected elements that form triangular units. Truss bridges appeared very early in the history of modern bridges and are economic to construct because they use materials efficiently.

Pros

- Matches original design aesthetic
- Lightweight Constituent Parts
- Light inherent weight due to high-strength steel

Cons

- 75% more expensive than modular design
- Labour & Equipment Intensive Installation Process
- Longer closures

**Estimated Date of Completion:
 October 2019**

Rehabilitation – The Challenges

In 2014 Keystone Bridge Management was retained by the Town of Gananoque to perform a structural inspection and provide the Town with its findings. With consideration of these findings, it is in Greer Galloway's opinion that the structural steel is approaching its maximum life span.

The report identified numerous deficiencies in the bridge structure including:

- Rutting in the deck surface
- Impact damage to the approach guiderail
- Corrosion of the:
 - Stringers & Floor Beams
 - Top and bottom chord
 - Abutment Bearings

A cautionary Load Posting of 20 tonnes was established after a report noting irregular deflection on the North side of the bridge

The Report ultimately recommended that the structure be replaced by 2020, and by 2030 would be considered no longer viable for vehicular traffic.

Preservation of Cultural Heritage

Originally constructed in 1898 as the TIR Snapper Bridge, the Town of Gananoque purchased the bridge from CN in 1924 for \$500. The Bridge was converted to a road bridge and installed at its new location where it remains today, almost 100 years later!

A plaque commemorating the Hudson Bridge and its history in our community would be presented on Market Street amongst the redesign and reuse of the structural components.

RMP Construction & Development Ltd. has proposed a design to reuse structural components to preserve the cultural heritage of the Hudson Bridge.

Environmental

Along with cultural heritage, preserving the environment is of the utmost importance. In addition to a phase 1 archeological and environmental study, there will also be measures in place for species at risk, bird protection and erosion & sediment control.

A sculpture: "Where Two River's Meet" is the proposed central feature of the park. The sculpture is a stylized representation of the shoreline where the Gananoque and St. Lawrence rivers meet.