

## **COMMITTEE OF THE WHOLE - OCTOBER 11, 2005**

### **LOAD RESTRICTION BY-LAW ON BRIDGE NO. 011601, MCEWEN BRIDGE, HUMBER RIVER**

#### **Recommendation**

The Commissioner of Engineering and Public Works recommends:

1. That a by-law be enacted on the existing concrete bridge being Bridge No. 011601, McEwen Bridge, Humber River on Kirby Road approximately 0.2 km east of Huntington Road to limit the loading to 5 tonnes; and
2. That the by-law be in effect for a period of 2 years.

#### **Economic Impact**

There is no additional economic impact to the City of Vaughan as the necessary resources have been allocated and approved.

#### **Purpose**

To pass a by-law to impose a load restriction on an existing concrete bridge for a period of two years.

#### **Background - Analysis and Options**

The Bridge No. 011601, McEwen Bridge, Humber River is located on Kirby Road approximately 0.2 km east of Huntington Road. (See Attachment No.1).

The existing bridge was constructed in 1923 and is an 18.3 metre single span cast in place concrete bowstring arch bridge with a concrete deck and gravel wearing surface. The bridge provides a roadway width of 3.4 metres and accommodates a single lane for two (2) way vehicular traffic.

Based on the Municipal Structures Inventory and Inspection Study, circa 2004, completed by Totten Sims Hubicki Associates, the 5 tonnes load limit currently posted is recommended to remain in effect.

The current Bylaw expires in September of 2005 and a new by-law is required for renewal and continued enforcement of the load limit on this structure.

#### **Relationship to Vaughan Vision 2007**

This report is consistent with the priorities previously set by Council.

#### **Conclusion**

A load limit by-law is required to impose a load restriction of 5 tonnes for a period of 2 years on Bridge No. 011601, McEwen Bridge, Humber River located on Kirby Road.

#### **Attachments**

1. Location Map

**Report prepared by:**

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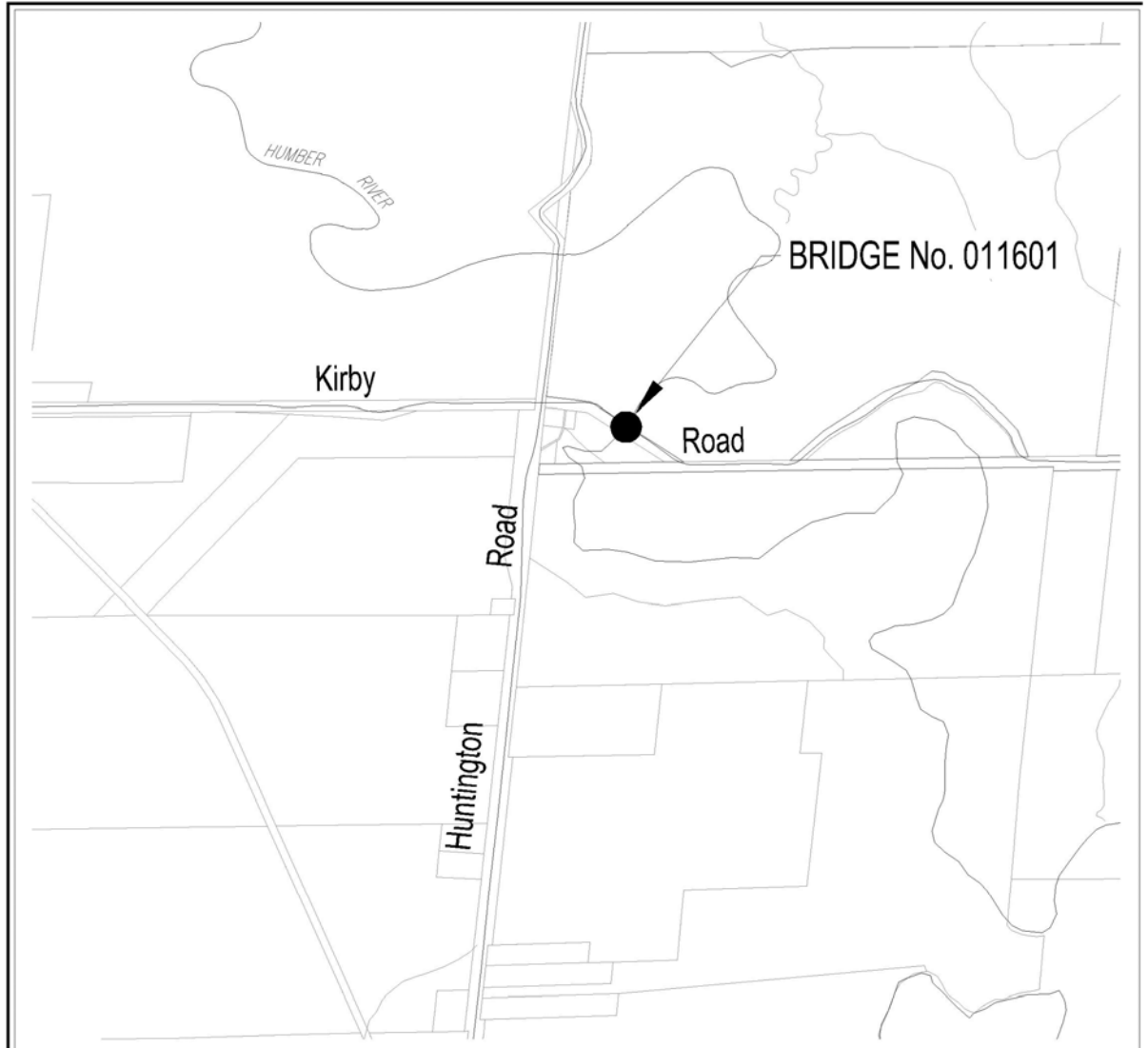
Respectfully submitted,

Bill Robinson, P. Eng.  
Commissioner of Engineering and Public Works

Gary Carroll, P. Eng.  
Director of Engineering Services

DB:mc

# ATTACHMENT No. 1

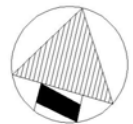


**LOAD RESTRICTIONS BY-LAW**  
**BRIDGE No. 011601**  
**McEWEN BRIDGE - HUMBER RIVER**

LOCATION : Part of Lots 30 & 31,  
Concession 9

**LEGEND**

● SUBJECT BRIDGE



NOT TO SCALE