

## **COMMITTEE OF THE WHOLE - OCTOBER 1, 2007**

### **LOAD RESTRICTION BY-LAW ON BRIDGE NO. 008601, HUMBER RIVER, WEST BRANCH**

#### **Recommendation**

The Commissioner of Engineering and Public Works recommends:

1. That a by-law be enacted on the existing concrete bridge being Bridge No. 008601, Humber River, West Branch on Humber Bridge Trail approximately 0.2 km east of Highway No. 27 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.

#### **Communications Plan**

A Communications Plan is not required for this activity.

#### **Purpose**

To pass a by-law to impose a load restriction on an existing concrete bridge for a period of two years in accordance with regulations under the Highway Traffic Act (Section 123(2)) and the Bridges Act (Section 2).

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

The Humber River, West Branch Bridge (Bridge No. 008601) is located on Humber Bridge Trail approximately 0.2 km east of Highway No. 27. (See Attachment No.1).

The existing bridge was constructed in 1914 and is an 18.3 metre single span cast in place concrete bowstring arch bridge with a concrete deck and wearing surface. The bridge provides a roadway width of 3.7 metres and accommodates a single lane for two way vehicular traffic.

Regulations under the Highway Traffic Act (Section 123(2)) and the Bridges Act (Section 2) requires the City to ensure that their bridges are kept safe and in good repair. This has to be done through the performance of regular structure inspections (every 2 years) in accordance with the Ontario Structure Inspection Manual. Also under these regulations, municipalities are still responsible for passing load limit bylaws. In place of the Ministry of Transportation of Ontario review, engineering recommendations to support the load limit and the duration for which it is valid, must now be stamped by two professional engineers.

Based on our most recent inspection of the structure, in 2006, completed by Engineered Management Systems, the 5 tonnes load limit currently posted is recommended to remain in effect.

The current Bylaw expires in October of 2007 and a new by-law is required for renewal and continued enforcement of the posted load limit on this structure.

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

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

### **Regional Implications**

There are no Regional Implications for this activity.

### **Conclusion**

A load limit by-law is required to renew a load restriction of 5 tonnes for a period of 2 years in accordance with regulations under the Highway Traffic Act (Section 123(2) and the Bridges Act (Section 2).

### **Attachments**

1. Location Map

### **Report prepared by:**

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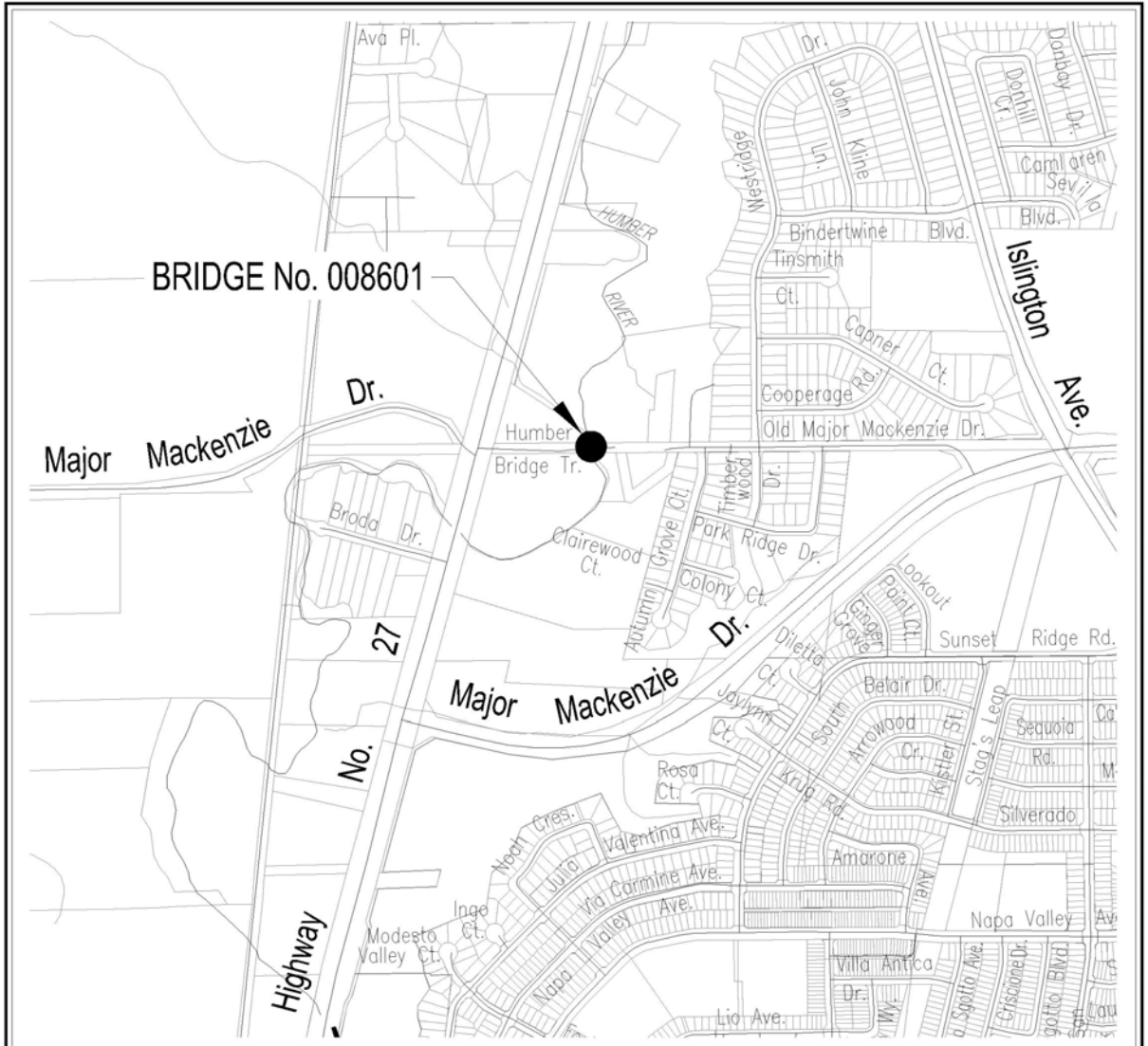
Respectfully submitted,

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

Gary P. Carroll, P. Eng.  
Director of Engineering Services

DB:mc

# ATTACHMENT No. 1

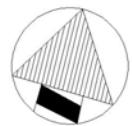


**LOAD RESTRICTIONS BY-LAW  
BRIDGE No. 008601  
HUMBER RIVER WEST BRANCH**

LOCATION : Part of Lots 20 & 21,  
Concession 8

**LEGEND**

● SUBJECT BRIDGE



NOT TO SCALE