

## **COMMITTEE OF THE WHOLE – JULY 6, 2010**

### **LOAD RESTRICTION BY-LAW ON BRIDGE NO. 014401, HUMBER RIVER, KING-VAUGHAN ROAD WARD 1**

#### **Recommendation**

The Commissioner of Engineering and Public Works recommends:

1. That a by-law be enacted for the existing concrete bridge being Bridge No. 014401, (Humber River on King-Vaughan Road approximately 1.0 km west of Kipling Avenue) to limit the loading to 12 tonnes; and
2. That the by-law be in effect for the statutory period of 2 years.

#### **Contribution to Sustainability**

The load limit by-law for Bridge No. 014401 will ensure that an acceptable level of service by the City's infrastructure is maintained for the health and well being of its citizens.

#### **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 2 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 Bridge in Lot 35, Concession VIII (Bridge No. 014401) is located on King-Vaughan Road over the Humber River approximately 1.0km west of Kipling Avenue. (See Attachment No.1).

The existing bridge was constructed in 1920 and is a 13.7m single span earth filled concrete arch bridge with a concrete deck and surface treated wearing surface. The bridge provides a roadway width of 3.7m and accommodates a single lane for 2-way vehicular traffic.

Regulations under the Highway Traffic Act (Section 123(2)) and the Bridges Act (Section 2) requires the City to ensure that the bridges are kept safe and in good repair. This requirement is completed 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, the 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, circa 2008, completed by AECOM, the 12 tonne load limit currently posted is recommended to remain in effect.

The current By-law has expired and a new by-law is required for its renewal.

## **Conclusion**

A load limit by-law is required to renew a load restriction of 12 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).

## **Relationship to Vaughan Vision 2020/Strategic Plan**

In consideration of the strategic priorities related to Vaughan Vision 2020, the recommendations of this report will assist in:

- Pursue Excellence in Service Delivery;
- Enhance and Ensure Community Safety, Health & Wellness; and
- Lead and Promote Environmental Sustainability

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

## **Regional Implications**

There are no Regional Implications for this activity.

## **Attachments**

1. Location Map

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Respectfully submitted,

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# ATTACHMENT No. 1

