

COMMITTEE OF THE WHOLE – JULY 6, 2010

LOAD RESTRICTION BY-LAW ON BRIDGE NO. 011601, MCEWEN BRIDGE, HUMBER RIVER WARD 1

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.

Contribution to Sustainability

The load limit by-law for Bridge No. 011601 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.

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 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 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 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, in 2008, completed by AECOM, the 5 tonnes load limit currently posted is recommended to remain in effect.

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

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.

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

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Respectfully submitted,

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ATTACHMENT No. 1

