

CITY OF VAUGHAN

EXTRACT FROM COUNCIL MEETING MINUTES OF SEPTEMBER 25, 2012

Item 40, Report No. 33, of the Committee of the Whole, which was adopted without amendment by the Council of the City of Vaughan on September 25, 2012.

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

The Committee of the Whole recommends approval of the recommendation contained in the following report of the Commissioner of Engineering and Public Works, dated September 4, 2012:

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 5 tonnes; and
2. That the by-law be in effect for the statutory period of 1 year.

Contribution to Sustainability

Not Applicable.

Economic Impact

The capital costs associated with the installation of the load restriction signs is estimated to be \$500.00, and has been included in the approved 2012 Operating Budget. The on-going costs to maintain the signs is estimated to be \$100.00 per annum, and will be incorporated in future year Operating Budgets.

Purpose

To pass a by-law to impose a load restriction on an existing concrete bridge for a period of 1 year, 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 biennial structure inspections in accordance with the Ontario Structure Inspection Manual. Under these regulations, municipalities are still responsible for passing load limit by-laws. 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.

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Based on our most recent inspection of the structure, in 2012, completed by AECOM, it has been recommended to reduce the current posting of 12 tonnes load limit to a new recommended posting of 5 tonnes load limit.

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 5 tonnes for a period of 1 year, 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 the report will assist in enhancing and maintaining community safety, health and wellbeing, by ensuring that an appropriate level of service for bridge conditions are maintained for the citizens of Vaughan.

Regional Implications

There are no Regional Implications for this activity.

Attachments

1. Location Map

Report prepared by:

Vince Musacchio, P. Eng., PMP, Manager of Capital Planning and Infrastructure, ext. 8311

VM:mc

(A copy of the attachments referred to in the foregoing have been forwarded to each Member of Council and a copy thereof is also on file in the office of the City Clerk.)

COMMITTEE OF THE WHOLE – SEPTEMBER 4, 2012

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 5 tonnes; and
2. That the by-law be in effect for the statutory period of 1 year.

Contribution to Sustainability

Not Applicable.

Economic Impact

The capital costs associated with the installation of the load restriction signs is estimated to be \$500.00, and has been included in the approved 2012 Operating Budget. The on-going costs to maintain the signs is estimated to be \$100.00 per annum, and will be incorporated in future year Operating Budgets.

Purpose

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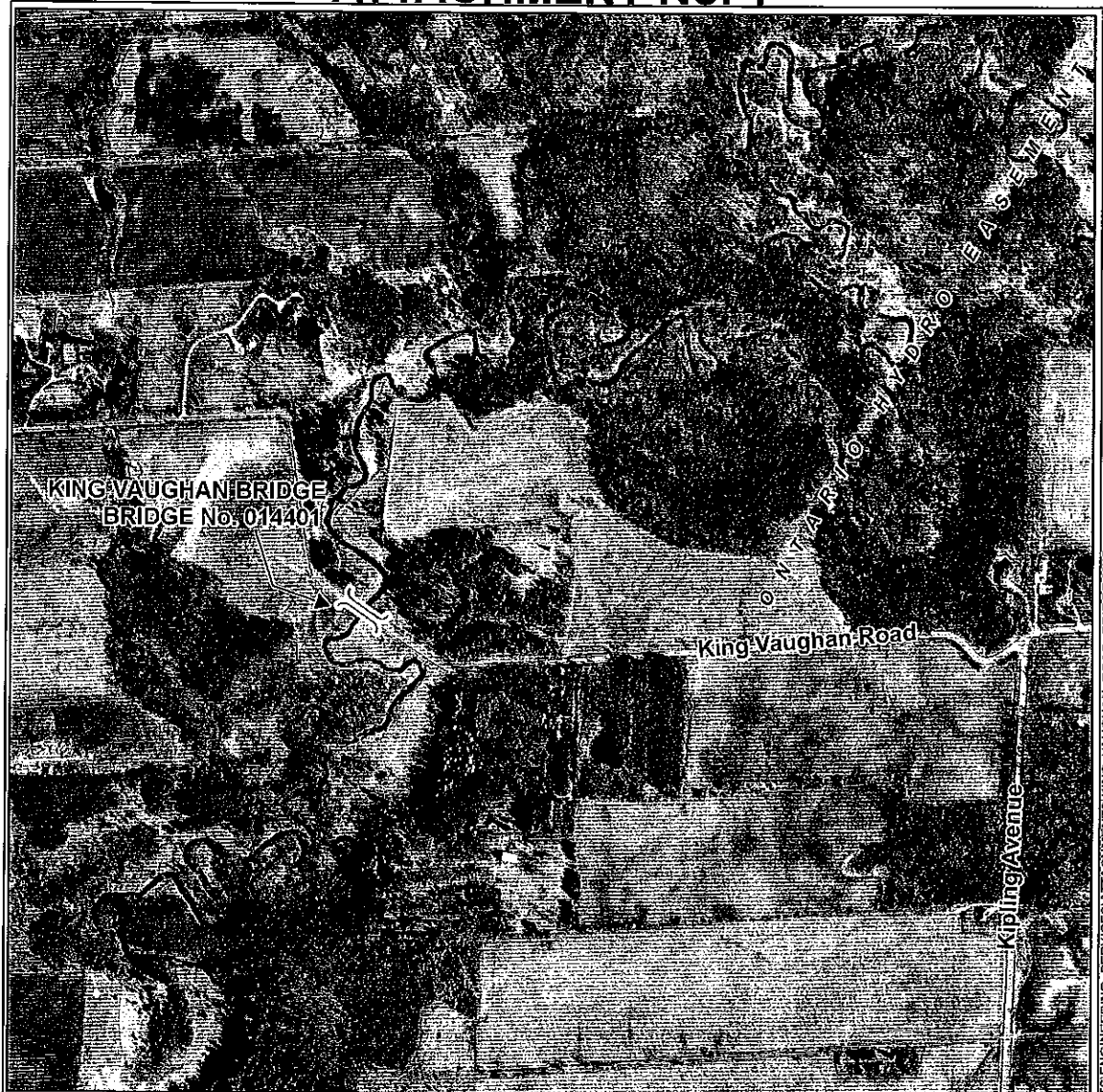
Respectfully submitted,

Paul Jankowski, P. Eng.
Commissioner of Engineering and Public Works

Jack Graziosi, P. Eng.
Director of Engineering Services

VM:mc

ATTACHMENT No. 1



KING VAUGHAN ROAD BRIDGE BRIDGE No. 014401

LOCATION: Part of Lot 35, Concession 8

LEGEND



SUBJECT BRIDGE

Note: Aerial photography acquired in spring, 2011



NOT TO SCALE