COMMITTEE OF THE WHOLE - APRIL 18, 2006

STORMWATER MANAGEMENT POND INVENTORY AND FENCING

Recommendation

The Commissioner of Engineering and Public Works recommends:

That this report BE RECEIVED for information purposes.

Economic Impact

There are no immediate budgetary impacts resulting from the adoption of this report.

<u>Purpose</u>

This report has been prepared in response to Council's requests respecting;

- the compilation of a list of all stormwater management ponds throughout the City, and
- the feasibility of installing a fence surrounding the existing Rutherford Road and Weston Road stormwater management pond.

Background – Analysis and Options

Item 8, Report No. 87, of the Committee of the Whole, which was adopted without amendment by the Council of the City of Vaughan on December 6, 2004, recommended:

"That staff provide a list of all SWM Ponds; and

That a fence for the Rutherford Road and Weston Road SWM Pond be reviewed."

Inventory of Stormwater Management Ponds

A list of the stormwater management ponds that are assumed in the City of Vaughan is identified in Attachment No. 1. There are currently 70 ponds in total. It is anticipated that approximately 25 ponds will be added to the inventory within the next five years.

Stormwater Management Pond Design Criteria

Stormwater management ponds are generally designed to encourage safe public access and are integrated as much as possible into the natural environment and trail systems. Current City criteria requires that stormwater management facilities have a curvilinear and natural configuration with varying side slopes between 3:1 and 7:1 with an average of 5:1. It is typical that side slopes steeper than 5:1 will require a 1.5 metre high fence to be installed around the perimeter of this area. Should the slopes be less than 5:1, fencing is usually not mandatory.

In addition, in accordance with the most recent City design criteria and standards, perimeter fencing is required along the property lines of residential, commercial and industrial or institutional lands where they abut a stormwater management facility block.

Warning signs in accordance with Standard Drawing No. K-6 as identified in Attachment No. 2 are required near pedestrian traffic routes or walkways located near the perimeter of a stormwater management facility. The number and placement of the warning signs varies depending on the size of the pond and its general layout.

As part of the 2006 Capital Budget Program, the Development/Transportation Engineering Department will undertake a Stormwater Management Criteria Study. This will include a review and update of the City's stormwater management design criteria and ensure compliance with all current MOE, MNR and DFO requirements.

Rutherford Road and Weston Road Stormwater Management Pond

The existing stormwater management pond at the northwest corner of Rutherford Road and Weston Road was constructed as part of the Phase 1 development of the Vellore Village plan of subdivision described by 19T-89024. It services a large drainage area within Block 39 and is tributary to Black Creek. Refer to Attachment No. 3.

Given the size of this existing facility, provisions have been made with the developer to install additional warning signs (in accordance with Standard Drawing No. K-6) along the ponds perimeter to Fossil Hill Road, Rutherford Road and the existing commercial plaza immediately east of the pond. The locations of the required additional warning signs are identified on Attachment No. 3.

Privacy fencing 1.8 metres in height currently exists along the northern property line of the pond adjacent to the existing residential lots. Given that the existing driveway access to Rutherford Road for the commercial plaza immediately east of the pond is adjacent to the pond's easterly limits, and that the sloping in this area of the pond block is gradual, fencing along the pond's east limit is not required.

Relationship to Vaughan Vision 2007

In consideration of the strategic priorities related to service delivery excellence as established by Vaughan Vision 2007, the recommendations of this report will assist in establishing and communicating service level standards that are affordable and sustainable; and in respecting the review of enforcement, compliance and monitoring of regulations related to public safety.

This report is therefore consistent with the priorities previously set by Council. All necessary resources have been allocated and approved.

Conclusion

As requested by Council, a current list of all assumed stormwater management facilities is provided in Attachment No. 1.

The existing pond at the northwest corner of Rutherford Road and Weston Road is adequately fenced along its northern perimeter behind the existing residential lots. Additional fencing is not required due to the gradual slopes surrounding the stormwater management facility. However, given the size of the pond additional warning signs in accordance with City Standards will be installed by the developer.

Attachments

- 1. List of Assumed Stormwater Management Facilities
- 2. Storm Water Facility Pond Warning Sign Standard Drawing K-6
- 3. Vellore Village Stormwater Management Pond Location Plan

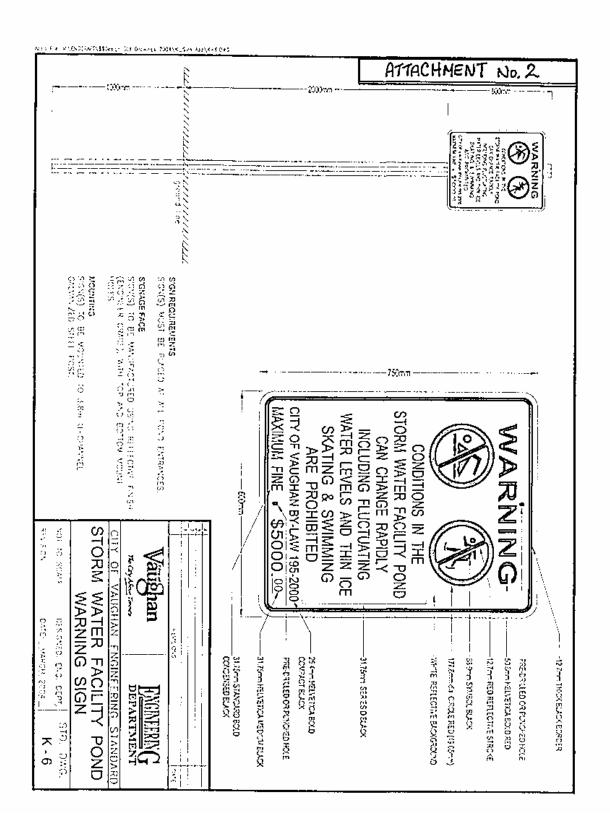
Report prepared by

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Respectfully submitted,

Bill Robinson, P. Eng. Commissioner of Engineering and Public Works Michael Won, P. Eng. Director of Development/ Transportation Engineering

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ATTACHMENT NO. 3

