

COMMITTEE OF THE WHOLE - FEBRUARY 18, 2002

EXEMPTION TO THE NOISE CONTROL BY-LAW CONSTRUCTION ACTIVITY REGIONAL PRESSURE DISTRICT SEVEN INTERCONNECTION TRUNK WATERMAIN

Recommendation

The Commissioner of Development Services and Public Works recommends:

That an exemption to the City's Noise Control By-Law 270-81 be granted to permit the operation of construction equipment in connection with the construction of the proposed Regional Pressure District Seven Interconnection Trunk Watermain on the future McNaughton Road extension east of Keele Street between the hours of 19:00 and 07:00 for a duration of approximately one month between March and April 2002.

Purpose

The purpose of this report is to seek Council's approval of an exemption to the City's Noise Control By-Law 270-81 to facilitate the construction of the proposed Regional Pressure District Seven Interconnection Trunk Watermain on the future McNaughton Road extension east of Keele Street in Maple.

Background - Analysis and Options

The proposed Pressure District Seven Interconnecting Watermain is a Regional trunk facility that will link together the Richmond Hill and Vaughan PD#7 water systems as shown on Attachment 1. This trunk watermain will serve to supply water between the two systems and increase overall system security.

This watermain is being constructed under five separate contracts. Contract Four will cover the section of the watermain within the future right-of-way of the McNaughton Road extension east of Keele Street and is scheduled for construction in March 2002. A portion of the McNaughton Road extension immediately east of Keele Street (Eagle Rock Way) currently serves as the truck entrance to the Keele Valley Landfill and the Eagle Rock Sand and Gravel quarry. It is anticipated that the construction of the watermain through this area will be challenging given the constraints imposed by the high volume of existing truck traffic using the access road, estimated at between 1,100 and 1,300 trucks per day, and the narrow existing right-of-way width. Accordingly, the Region's engineering consultant (MacViro) convened a meeting with representatives of both Eagle Rock and Sand and Gravel and the City of Toronto to discuss their respective facility operations and the pending watermain construction. After reviewing the various construction options, it was concluded that the optimal solution for all parties is to close the Eagle Rock Way entrance during off hours of operation between 19:00 and 06:00 and construct the watermain during the nighttime. This would allow the Region's contractor to maintain two lanes of traffic on Eagle Rock Way during the day and avoid disrupting regular truck traffic. This option was preferred for the following addition reasons:

- The land-use in the immediate vicinity of the construction zone is non-residential and would therefore not be affected by nighttime construction noise;
- Construction of the watermain is scheduled for the springtime when windows in residential homes typically remain closed and few people are outdoors. This situation will help to minimize the effects of nighttime construction noise on the few existing homes along Keele Street and the residential development located about 200 metres south of the construction zone;
- Construction traffic at night would be contained to the work site; and

- It is anticipated that the watermain could be constructed in a shorter period of time.

The one kilometre section of the Contract Four watermain that is proposed to be constructed during the nighttime will take about one month to complete. The installation of the first section of this watermain from Keele Street to the CP Rail tracks will be carried out by conventional open cut construction and be completed in one week. Although the construction activity will be brief, it is anticipated that the noise coming from the construction of this section of the watermain will have the greatest potential to be heard in the surrounding residential areas. The balance of the watermain, including the tunneled crossing of the CP Rail tracks, will take an additional two to three weeks to construct but will be further removed from the residential areas.

Pursuant to Item 16 on Table 3-1 Prohibitions by Time and Place of the City's Noise Control By-law 270-81, the operation of any equipment in connection with construction is prohibited between 19:00 one day to 07:00 the next day if clearly audible in a residential area.

The overall noise level emitting from the construction activities is expected to be low and muffled, however, given that residential areas are close to the construction zone, an exemption to the City's Noise Control By-law is required to facilitate the construction of the proposed Trunk Watermain.

Conclusion

The Region is proceeding with the construction of the Pressure District Seven Interconnection Trunk Watermain. One section of the watermain will follow the alignment of the future McNaughton Road extension (Eagle Rock Way) east of Keele Street. Given the existing truck traffic on Eagle Rock Way, the preferred work plan for the construction of the watermain is to close Eagle Rock Way during off hours of operation between 19:00 and 06:00 and to carry out the work during the nighttime. To facilitate this work plan, it is recommended that an exemption to the City's Noise Control By-Law 270-81 be granted. Should Council concur, the recommended resolution could be passed.

Attachments

1. Location Map

Report prepared by:

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- B. Holly, Senior Manager Development/Transportation Engineering, ext 8250

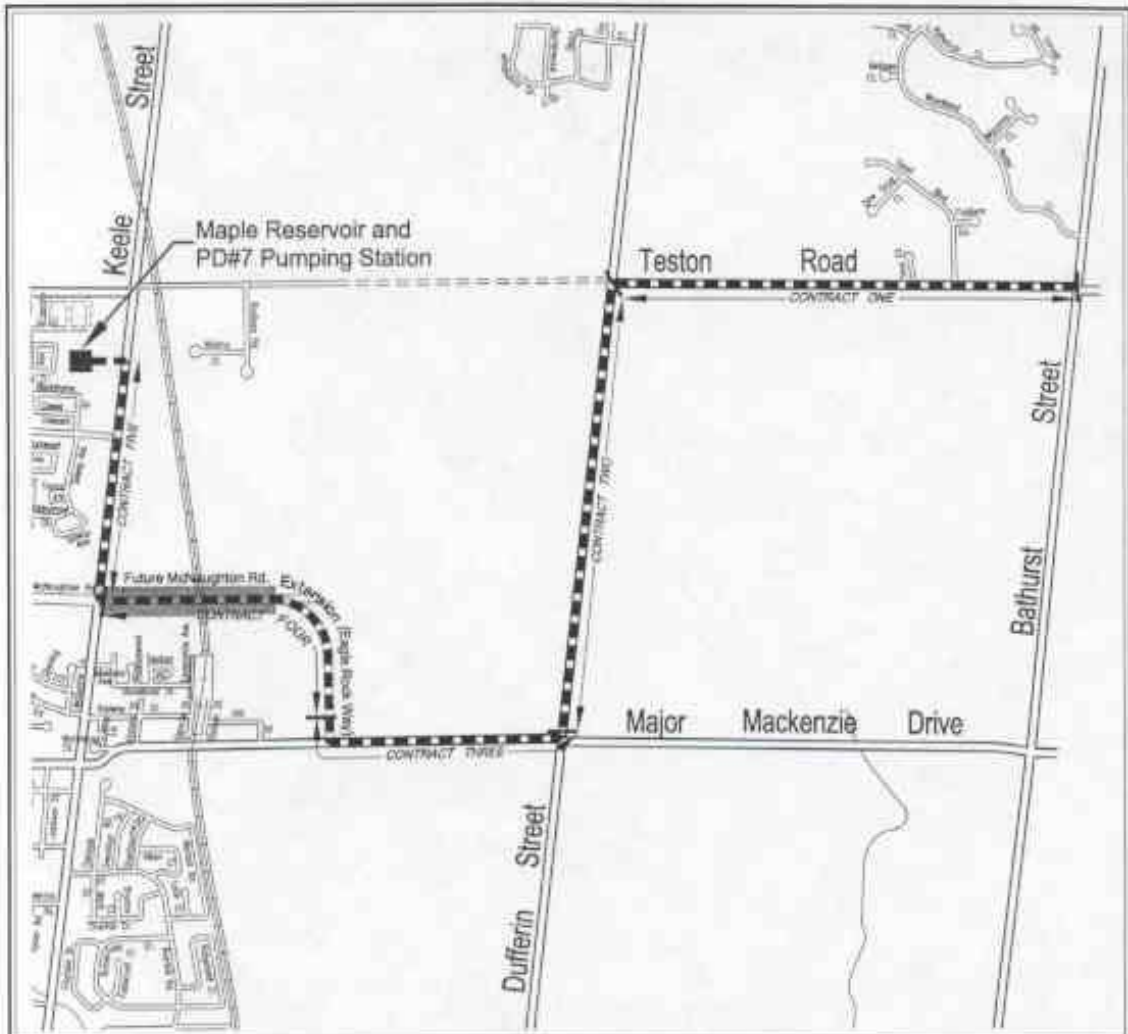
Respectfully submitted,

FRANK MIELE
Commissioner of Development Services
and Public Works

Bill Robinson, P. Eng.
Executive Director of City Engineering
and Public Works



AP/mr

ATTACHMENT No. 1



NOISE CONTROL BY-LAW EXEMPTION REGIONAL PD#7 INTERCONNECTION TRUNK WATERMAIN

LEGEND

-  CONSTRUCTION ZONE
subject to noise control by-law exemption
-  REGIONAL PRESSURE DISTRICT SEVEN
INTERCONNECTION TRUNK WATERMAIN



NOT TO SCALE

CITY OF WAGHWAY - ENGINEERING DEPARTMENT

Drawing Name: WAGHWAY DEVELOPMENT/AMH/2002/0001/Noise Control PD7 4/11/04