

REGION OF OTTAWA-CARLETON
 RÉGION D'OTTAWA-CARLETON

REPORT
 RAPPORT

Our File/N/Réf. **50 10-99-0015**
 Your File/V/Réf.

DATE 03 September 1999

TO/DEST. Co-ordinator
 Corporate Services and Economic Development Committee

FROM/EXP. Environment and Transportation Commissioner

SUBJECT/OBJET **CRYSTAL BEACH/GRAHAM CREEK COLLECTOR
 FLOW DIVERSION - CONTRACT NO. ETL99-2016**

DEPARTMENTAL RECOMMENDATIONS

That the Corporate Services and Economic Development Committee approve:

- 1. The construction of the forcemain for the Crystal Beach/Graham Creek Collector Flow Diversion in Acres Road from its intersection with Aero Drive to the West Nepean Collector on Carling Avenue;**
- 2. The Region enter into a Subdivision Agreement with Tamarack Development Corporation, whereby Tamarack Development Corporation will include in its contract the installation of approximately 285 meters of forcemain for the Crystal Beach/Graham Creek Collector Flow Diversion and the replacement of the existing West Nepean Collector maintenance access chamber located at Carling Avenue and Acres Road;**
- 3. The repayment of the installation cost for a total contract provision of \$168,855 with no carrying cost payable by the Region of Ottawa-Carleton to Tamarack Development Corporation upon satisfactory completion of the work to Regional standards and specifications and receipt of invoice, under Contract No. ETL99-2016;**
- 4. The Subdivision agreement referred to in recommendation number 2, be executed and registered on title for the developer's lands in the Carver Development and be secured by a Letter of Credit, for the total cost of the forcemain and replacement of the maintenance access chamber, prior to letting of the contract to bring sewer services to the land.**

RATIONALE

Three wastewater flow diversions are identified in the RMOC Wastewater Master Plan (WMP) for the West Nepean Collector system. The three diversions include: the Woodroffe Collector Diversion, the Crystal Beach/Graham Creek Collector Flow Diversion, and the Mooney's Bay Collector Flow Diversion. Each of these systems contributes flows to the West Nepean Collector which has an estimated capacity of 2800L/s. The purpose of the proposed diversions is to limit the flows to the West Nepean Collector to not more than its capacity of 2800L/s by redirecting some of the contributing flows to the Lynwood and South Ottawa Collectors during peak wet weather flow conditions.

The implementation of the diversion systems is expected to take place as follows: the Woodroffe Collector is currently under construction, the Crystal Beach/Graham Creek Collector Flow Diversion in 2001 and the Mooney's Bay Diversion in 2002.

For the Crystal Beach/Graham Creek Collector Flow Diversion, the operational strategy is to divert flows from the Graham Creek Collector by pumping to the Acres Road Sewage Pump Station (ARSPS) which would then pump the flows to the Lynwood Collector. The diversion includes using an existing linear parkland owned by the NCC and the City of Nepean for the forcemain alignment as well as using the existing right-of-way (ROW) along Carling Avenue and Acres Road. This diversion system would place a diversion chamber on the West Nepean Collector within the Carling Avenue ROW, a pump station within the park owned by the City of Nepean, and a forcemain to the ARSPS placed within the existing road ROW for Carling Avenue and Acres Road (Figure 1).

At this time there is a proposal to build a townhouse development (Carver Property) on land south of Stonehedge Drive adjacent to Acres Road. In order to facilitate the development, a 285 meter sanitary sewer is required from the Carver Property on Acres Road to the West Nepean Collector on Carling Avenue.

Both the 250 mm sanitary sewer to service the Carver Property and a section of the 450 mm forcemain fall within the same alignment. If construction of both the forcemain and the sanitary gravity flow sewer is co-ordinated, cost savings are realized for the Region. In addition, the proposed 250 mm sanitary sewer is to outlet to the West Nepean Collector Sewer via the maintenance access chamber located at the intersection of Carling Avenue and Acres Road. Since this maintenance access chamber is undersized, a 50/50 cost sharing arrangement between the Region and developer for the replacement/upgrade of this maintenance access chamber is recommended.

The tenders for the sanitary forcemain and replacement of access chamber were received by Tamarack Development Corporation as follows:

<u>Contractor</u>	<u>Total Contract Price</u>
Taggart Construction Ltd., Ottawa	\$286,440.00
Vanson Construction Ltd., Greely	\$399,403.50
Ottawa Greenbelt Construction Co. Ltd., Gloucester	\$440,616.00

The Region's share for the cost of installation of forcemain, access chamber and road reconstruction is \$ 138,810.00.exclusive of engineering fees, contingency and GST.

The total cost to the Region is \$168,855.30 including \$4,164.30 for net G.S.T., \$12,000 for engineering and contract supervision and \$13,881.00 for project contingency.

The engineering estimate for the project is estimated at \$195,025.00.

EXPENDITURE JUSTIFICATION

The forcemain that is part of the Crystal Beach/Graham Creek Collector Flow Diversion is scheduled as per the 1999 Capital Budget for construction in 2001. The opportunity is now available to co-ordinate the construction of the forcemain with the construction of the sanitary sewer servicing the Carver Property. This will result in a cost savings to the Region and will minimize disruption to Acres Road/Carling Avenue traffic.

CONSULTATION

Consultation has been done in conjunction with the Regional Official Plan adopted by Regional Council in July 1997. In terms of the Class EA, this project is classified as a Schedule 'A' with minimal environmental impacts and was approved with the Wastewater Master Plan adopted by Regional Council on 09 July 1997.

The City of Nepean has been consulted and is supportive of utilizing a common trench for the gravity sewer which they will be assuming from the developer and our forcemain. Residences and businesses in the area of the work will be notified prior to the commencement of construction.

CONFORMITY TO THE REGIONAL OFFICIAL PLAN

This project is identified as a system requirement in the Wastewater Master Plan.

FINANCIAL STATEMENT

	\$
Approved Budget to Date	700,000
Total Paid and Committed	<u>(59,674)</u>
Balance Available	640,326
THIS REQUEST	<u>(168,855)</u>
Balance Remaining	<u>471,471</u>

Funds have been provided in the 1998 Capital Project Account No. 932-42047 (Order No. 900227), Crystal Beach/Graham Creek Collector Flow Diversion, (Reference pages 278/279). Purchase Requisition 10016492.

*Approved by
M.J.E. Sheflin, P.Eng.*

SG/

FINANCE DEPARTMENT COMMENT

Funds are available as indicated.

*Approved by T. Fedec
on behalf of the Finance Commissioner*

