

REGIONAL MUNICIPALITY OF OTTAWA-CARLETON  
MUNICIPALITÉ RÉGIONALE D'OTTAWA-CARLETON

REPORT  
RAPPORT

Our File/N/Réf.                   **50 18-98-0006-U**  
Your File/V/Réf.

DATE                                19 March 1998

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

FROM/EXP.                        Environment and Transportation Commissioner

SUBJECT/OBJET                 **GLOUCESTER STREET WATERMAIN REHABILITATION  
1998 URBAN WATERMAIN UPGRADES & EXTENSIONS  
CONTRACT NUMBER CA 9482**

### **DEPARTMENTAL RECOMMENDATION**

**That the Corporate Services and Economic Development Committee and Council approve:**

- 1.     The pre-commitment of \$267,391 of the proposed 1998 Urban Watermain Upgrades and Extensions;**
- 2.     The appointment of Robinson Consultant Inc. Consulting Engineers, Kanata, for design services for the Gloucester Street Watermain Rehabilitation for a total contract provision of \$267,391.**

### **BACKGROUND**

The Environment and Transportation Department requested Robinson Consultant Inc. to prepare a report detailing replacement options for the existing 914 mm watermain in Gloucester Street from Bronson Avenue to Elgin Street in the City of Ottawa as part of our proposed 1998 Urban Watermain Programme. The main thrust of the assignment was to cost not only traditional construction methods but also to examine alternative 'trenchless or low-dig' applications. This watermain, constructed in 1914-1915 is considered to be in poor structural condition. However, this pipe is one of the principal feeder mains servicing the areas east and west of the Rideau Canal. In contrast, the roadway surface of Gloucester Street is in good condition and can be classified as a high traffic street intersecting with some of the highest traffic volume corridors in the commercial urban core.

Replacement of the watermain is viewed as high priority as the main has failed twice in the past; once approximately 15 years ago and again only five years ago. Both failures resulted in

exorbitant damage claims for which the Region was found to be liable. The consultant's report has presented a viable low-dig option that is designed to achieve reduced construction costs and minimize impact on the existing roadway infrastructure. This process known as 'sliplining' basically involves a new flexible pipe being inserted within the existing host pipe. This approach will minimize traffic disruption and impact on residents and businesses and lessen the risk of damage to other utilities.

This request is for design services only. The amount requested is \$227,091, G.S.T. in the amount of \$16,000, and a contingency allowance of \$24,300, for a total contract provision of \$267,391.

### RATIONALE

Three consultant firms were invited to present a proposal for the initial study and Robinson Consultant Inc. was selected by staff as the most qualified. It is noteworthy that the resulting report is of such quality that it will be used as a template for assessing other candidate projects for trenchless construction applications. Robinson Consultant Inc. is the only firm requested to submit a proposal for this required design assignment because of their background in the speciality of this alternate technology and for having successfully completed the feasibility study for this project.

Based on the foregoing, it is recommended that Robinson Consultant Inc. be awarded this second phase of the assignment.

### EXPENDITURE JUSTIFICATION

Approximate age of the existing infrastructure is 83 years old. The watermain has reached the end of its structural design life and already experienced two costly major failures.

### CONSULTATION

Construction is scheduled for the fall of 1998. Public consultation will be carried out prior to the commencement of construction. This project is proceeding under a Schedule 'A' environment screening process.

Funds have been requested in the 1998 Draft Capital Estimates, Account No. 922-41927, Urban Watermain Upgrades/Extensions, (reference page 304).

*Approved by D. Brousseau on behalf of  
M.J.E. Sheflin, P.Eng.*

MJW/jw

FINANCE DEPARTMENT COMMENT

The 1998 Capital Budget authority request for the Urban Watermain/Upgrades Extension (project 922-41927, reference page 304), is \$10,560,000. Approval of this report represents a pre-commitment against the 1998 Draft Budget in the amount of \$267,391. Subject to Council Approval.

*Approved by C. Colaiacovo  
on behalf of the Finance Commissioner*