

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

REPORT  
RAPPORT

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Our File/N/Réf.                   **50 12-98-R036; 18-98-0004-U**  
Your File/V/Réf.

DATE                                22 May 1998

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

FROM/EXP.                       Environment and Transportation Commissioner

SUBJECT/OBJET                 **URBAN WATERMAIN UPGRADE/EXTENSIONS PROGRAMME**  
**RICHMOND ROAD - WESTBORO**  
**BROADVIEW AVENUE TO TWEEDSMUIR AVENUE**  
**CONTRACT NO. CA 9491 - CONSULTING SERVICES**

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### **DEPARTMENTAL RECOMMENDATION**

**That the Corporate Services and Economic Development Committee approve the appointment of Novatech Engineering Consultants Limited, Nepean, for design, specialized geotechnical investigation and contract preparation services for Richmond Road, Broadview Avenue to Tweedsmuir Avenue, for a total contract provision of \$645,065.**

### **BACKGROUND**

The Environment and Transportation Department has identified a requirement for the replacement of the existing 305 mm watermain on Richmond Road from Broadview Avenue to Tweedsmuir Avenue in the City of Ottawa (see attached sketch) as part of the proposed 1998 Urban Watermain Upgrades/Extensions Programme. The majority of this watermain was constructed in 1931 and is therefore in the order of 70 years old. When the age of this watermain is viewed in conjunction with other replacement criteria, such as depth of cover, number of breaks, the replacement need is identified as 1 to 5 years.

The Department has also identified that this section of Richmond Road is a high priority for resurfacing. This has been the case for several years but the work has been consistently delayed pending a decision to proceed with the replacement or repair of existing underground services.

Furthermore, within these sections of Richmond Road there also are several portions of the Regional right-of-way which are known to be contaminated with hydrocarbons and other hazardous substances which have leached into the right-of-way from adjacent fuel dispensing sites.

The City of Ottawa has also identified an immediate need to undertake both replacements and extensive repairs to both their sanitary and storm sewers within the same limits on Richmond Road.

Finally, the City of Ottawa and the Village of Westboro BIA have been jointly developing a 'Plan of Physical Improvements, Design Concept Report', (Streetscaping). This work would be carried out within this project.

The best approach to address all of the current infrastructure needs for this section of Richmond Road as outlined above is one joint project led and co-ordinated by the road authority which is the Region.

#### PETROCHEMICAL CONTAMINATION/REMEDIATION

An environmental study is required for the identified sites as governed by the Environmental Protection Act (EPA) and the Ministry of Environment (MOE) clean-up requirements. Such requirements would include the removal of all liquid phase products and the elimination of potentially explosive hydrocarbon vapours on the site to below MOE guidelines.

Accordingly, a specialized geotechnical investigation programme will be necessary to establish both the extent and toxicity of single source contamination and individual responsibilities of adjacent property owners for contamination of the right-of-way where there are several sources of pollution at one location.

The proposed investigation programme and subsequent detailed analysis will be essential to isolate individual responsibilities for the pollution, and place the Region in the best possible position to recover costs from the adjacent property owners.

The estimated cost of the specialized geotechnical programme, including GST, is \$ 260,010.

The potential costs associated with contaminated site clean-up and remediation have, historically, been found to be high, and with nine (9) identified sites within the project limits, the estimated costs of clean-up need to be assessed before proceeding to tendering of the work. The viability and direction of the project could be shifted dramatically if the estimated costs of remediation are unacceptably high.

## DISCUSSION

Four local engineering firms (Ainley Graham and Associates, Cummings Cockburn and Associates, Morrison Hershfield Group and Novatech Engineering Consultants Limited) were invited to respond to a Request for Proposals for engineering services for the project. Novatech Engineering Consultants Limited were selected by a staff committee as having the best expertise, methodology and relevant experience. Based on the foregoing, it is recommended that Novatech Engineering Consultants Limited be awarded this design assignment.

The amount requested is \$579,500, plus a contingency allowance of \$25,000, plus an amount of \$40,565 for GST, for a total award of \$645,065.

This assignment is for all engineering, geotechnical investigation and public participation activities up to and including the tender award stage for the Westboro Village section of the project, i.e. Broadview to Tweedsmuir.

The estimated cost of the specialized geotechnical component of this assignment, including GST, is \$260,010. The City of Ottawa has indicated a willingness to participate in cost-sharing for this programme.

Asphalting costs will be recoverable from the Environment and Transportation Department, Infrastructure Maintenance Division, from the 1998 Resurfacing Programme, up to the value budgeted for resurfacing within the limits of that portion of Richmond Road affected by this project.

To augment the Region's standing arrangement for the recovery of 11% of engineering costs from the City of Ottawa, the City has also indicated that they are willing to contribute a further percentage for additional engineering carried out by the Region on behalf of the City.

Subject to City of Ottawa Council approval, the City has allocated funds for construction of their portion of the storm and sanitary sewer work and for the streetscaping initiative which will be supplemented by funds from the Westboro BIA. The execution of the work would be carried out by the Region within this project scope and expenditures recovered from the City of Ottawa and the Westboro BIA.

Subject to MOE approval and satisfactory apportionment of costs for remediation of the petrochemical contamination within the Regional right-of-way, it is expected that the majority of the costs of the clean-up will be recoverable from the adjacent property owners.

## EXPENDITURE JUSTIFICATION

The most cost-effective approach to complete the identified needs for this section of Richmond Road will likely result in a full road reconstruction over most of the project limits, led and co-ordinated by the Region. This opportunity for co-ordination will ensure that the best overall infrastructure package is provided to the public, while providing cost-sharing opportunities that would not otherwise exist. Such an approach will also ensure the least amount of disruption and

inconvenience to the merchants of Westboro and the motoring public on Richmond Road, an advantage which could not be claimed from a piece-meal approach.

### CONSULTATION

Public consultation will be carried out in a number of ways prior to the commencement of construction. It is intended to form a Public Advisory Committee to secure input from the affected businesses and local residents. The design team has and will continue to meet with the Westboro BIA with regard to minimizing the impact to adjacent businesses during the construction period.

A comprehensive communications plan is proposed to keep residents, shoppers, merchants and motorists informed of progress of the project both during the design process and during the construction period.

This project is proceeding under a Schedule 'A' Environmental Screening process.

### FINANCIAL STATEMENT

	\$
Approved Budget to Date	10,560,000
Total Paid and Committed	<u>(532,839)</u>
Balance Available	10,027,161
THIS REQUEST	<u>(645,065)</u>
Balance Remaining	<u>9,382,096</u>

Funds are available the 1998 Capital Budget, Account No. 922-41927, Urban Watermain Upgrades/Extensions Programme. (Reference page 305).

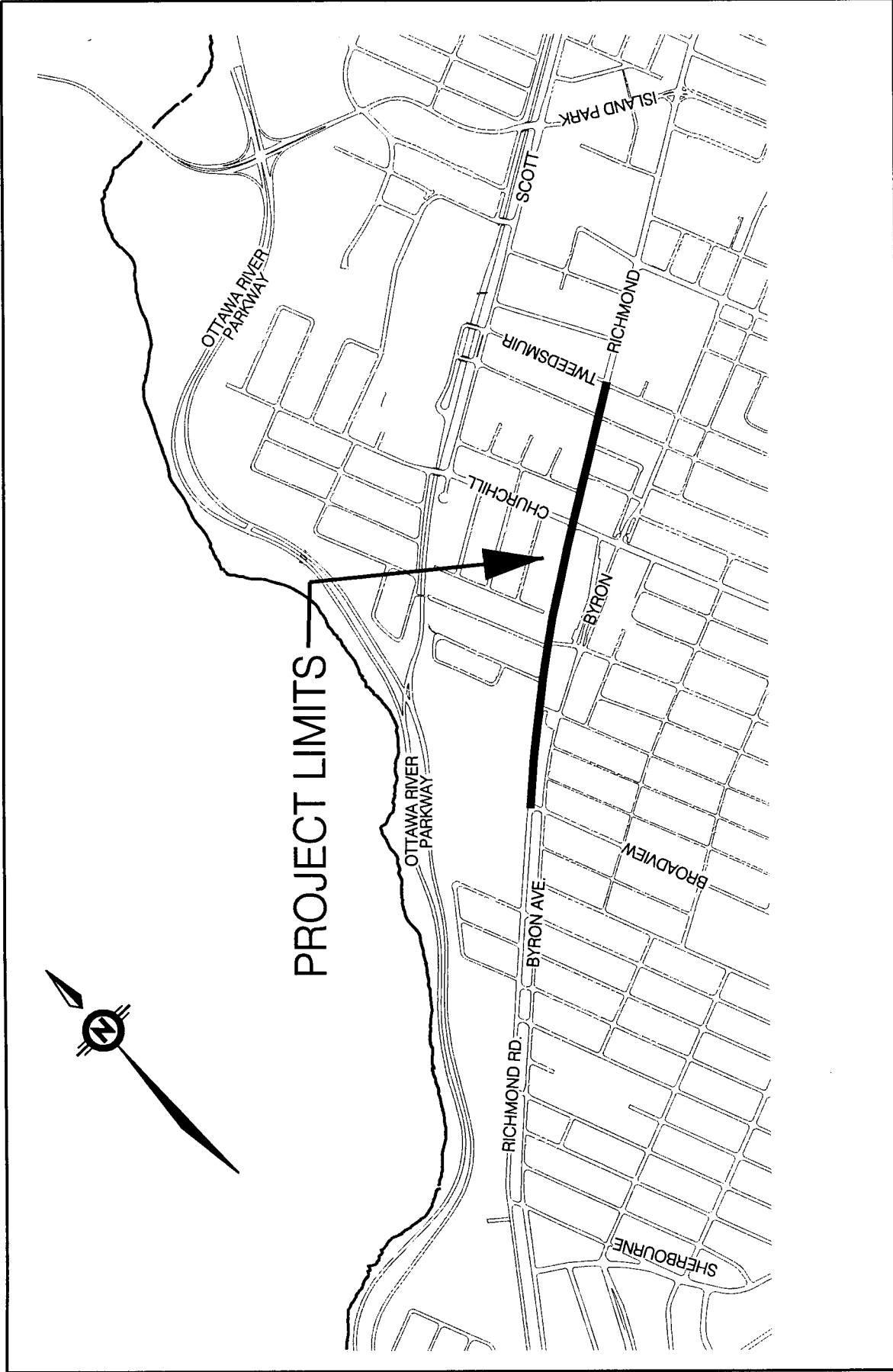
*Approved by  
M.J.E. Sheflin, P.Eng.*

PSC/cpv

### FINANCE DEPARTMENT COMMENT

Funds are available as indicated.

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



DRAWN :	LPD	SCALE :	N.T.S.
CHECK :	PSC	DATE :	DRAWING NO :
		MAY 98	RT - 2314

**RICHMOND ROAD**  
 BROADVIEW AVE. TO TWEEDSMUIR AVE.

**Ottawa-Carleton**