

ITEM	04
MANAGER'S REPORT #	15
COUNCIL MEETING	96/05/27

**TO:** CITY MANAGER

**DATE:** 1996 05 22

**FROM:** DIRECTOR ENGINEERING

**FILE:** 50-06-21

**SUBJECT:** BOUNDARY ROAD IMPROVEMENTS -  
KINGSWAY TO THURSTON STREET

**PURPOSE:** To obtain Council authority to retain a consultant for engineering services and to bring down a Capital Works Expenditure Bylaw in the amount of \$1.8 million for design and construction of improvements to Boundary Road as outlined in this report.

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**RECOMMENDATIONS:**

1. THAT Council approve the retention of Aplin & Martin Consultants Ltd. to provide engineering consulting services for this project as more specifically detailed in this report.
2. THAT Council authorize the bringing down of a Capital Works Expenditure Bylaw in the amount of \$1.8 million for the design and construction of the Boundary Road improvements.

**REPORT**

**1.0 BACKGROUND**

At its regular meeting of 1996 February 19, Council approved the design and implementation strategy for Boundary Road improvements between Kingsway and Thurston Street. This report discussed the design concept and identified a number of cost sharing agreements between the City of Burnaby as the overall project manager and the City of Vancouver, the Ministry of Transportation & Highways, and the B.C. Telephone Company. The report also discussed the phasing of this project over a two year period beginning in 1996 and completing in 1997.

The design concept provides for the reconstruction of Boundary Road to a six lane standard from north of Vanness Avenue to a point south of Kingsway including a pedestrian/cycling signal with transit actuation at the Boundary/Vanness intersection which would accommodate pedestrians and cyclists crossing Boundary Road at grade and the left turn out movement for buses and emergency vehicles wanting to go northbound on Boundary Road. This project would also accommodate some modifications of the existing signals at Kingsway and Boundary Road plus the widening of Kingsway to the east. This reconstruction of Boundary Road would also relocate the parking/stopping area adjacent to B.C. Tel and realign B.C. Tel's current driveway access from Boundary Road.

## **2.0 CONSTRUCTION SCHEDULE**

The current schedule calls for the Boundary Road project to be undertaken over a two year period. Although a detailed construction schedule cannot be determined at this time, it is intended that the project would be phased over the two year period beginning with an overall design in 1996 followed by work at the Boundary/Vanness intersection thereby giving priority to accommodating transit and providing a safe at-grade crossing for pedestrians and cyclists who no longer have the benefit of using the old railway overpass. The reconstruction of the remainder of the Boundary Road project including the B.C. Tel driveway access and the work on Kingsway would follow in 1997.

## **3.0 COSTS AND FINANCING**

This project is included in the 1996-2000 Capital Budget. It is recommended that a Capital Expenditure Bylaw in the amount of \$1.8 million covering the total estimated project costs be brought down at this time with the understanding that the City's spending limit in 1996 is \$300,000. It should also be noted that the City of Burnaby has assumed overall responsibility for managing this project and therefore the expenditure bylaw reflects the estimated total cost of the project. Approximately \$1.2 million of this amount will be recovered from the City of Vancouver, the Ministry of Transportation & Highways, and B.C. Tel.

## **4.0 CONSULTANT SELECTION**

Proposals for engineering services for the design and construction supervision of the aforementioned project have been received from three consulting firms. Each of these firms is well established with qualified engineers and technicians on staff. As well, each firm has assembled a team of sub-consultants to address the various speciality aspects such as geotechnical aspects of this project. The three companies are Associated Engineering (B.C.) Ltd., Reid Crowther & Partners Ltd., and Aplin & Martin Consultants Ltd. The proposals

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were reviewed on the basis of several weighted factors including such items as experience and expertise of the consultant's company and assigned staff, proven ability based on the consultant's previous work history, references, project understanding, completeness of proposal, scheduling, and total cost implications. Assessment of each of these factors on a scored point basis provided a quantitative method of consultant evaluation. The quantitative rating represented an appraisal of the City's particular needs for this engineering project.

The evaluation rating method established that the proposal prepared by Aplin & Martin Consultants Ltd. most closely meets the needs of the City. Aplin & Martin have a sound experience in road design and construction as well as in project management. Their team demonstrated a complete understanding of the project. They also showed a strong sensitivity to the requirement to maintain traffic on Boundary Road and to the fact that this project has a number of partners each of whom will have their own input to the project.

The estimated engineering fee is approximately \$115,000. We believe that this is an appropriate level of effort to fulfill the terms of reference for this project. It is therefore recommended that the City of Burnaby enter into an engineering agreement with Aplin & Martin Consultants Ltd. to provide engineering services for the roadway improvements on Boundary Road with an estimated engineering fee budget of \$115,000.

The Purchasing Agent concurs with this recommendation.

  
DIRECTOR ENGINEERING

VNW:jb

cc: Director Finance  
Director Planning & Building  
Director Recreation & Cultural Services  
City Solicitor  
Deputy Manager, Corporate Services  
Purchasing Agent

