

RE: ENGINEERING SERVICES FOR THE DESIGN AND SUPERVISION
OF WATERMAIN CONSTRUCTION ON THE BARNET HIGHWAY

The following is a report of the Municipal Engineer dated July 10 regarding the above.

RECOMMENDATION:

1. THAT the Corporation of Burnaby enter into an Engineering Agreement with Associated Engineering Services Ltd. to provide the necessary engineering services as outlined in the Municipal Engineer's letter to them dated 1978 June 20, and in accordance with the consultant's proposal dated 1978 July 06, for upset fees including disbursements of \$21,200 for design and \$5,300 for office administration of construction and hourly rates for time actually spent for resident supervision and field layout.

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78 07 10

TO: MUNICIPAL MANAGER
FROM: MUNICIPAL ENGINEER
SUBJECT: ENGINEERING SERVICES FOR THE DESIGN AND SUPERVISION
OF WATERMAIN CONSTRUCTION ON THE BARNET HIGHWAY.

The above noted project is included in our 1978 Water Works Capital Improvement Program and is required because of the high demand for fire flow to the industrial properties along the Barnet Highway.

Attached hereto is a copy of an invitation, including terms of reference, which was sent to three reputable Design Consultants. Proposals have now been received from each of these consultants and a brief summary of their engineering fees is as follows:

Dayton & Knight Ltd. - Estimated Design Fee of \$48,000 and supervision and layout Fee to be negotiated after the construction contract has been awarded.

Kerr Wood Leidal Associates Ltd. - Estimated Design Fees range between \$23,900 and \$28,800 and \$4,950 per month for field inspection and construction supervision.

Associated Engineering Services Ltd. - The upper limit of engineering fees is established as \$21,200 for design and \$5,300 for office administration of construction. Resident supervision and field layout would be on an hourly basis.

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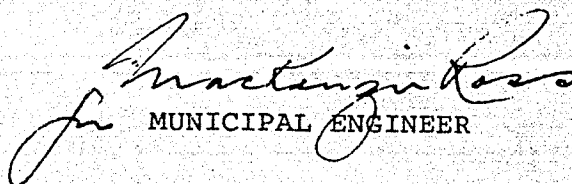
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Although it is customary to not include standard disbursements such as transportation costs, long distance telephone calls, rental of specialized equipment and reproduction and duplicating services, the proposal by Associated Engineering Services Ltd. explicately states that such disbursements are to be considered to be included in their design fee. It should also be noted that each of the consultants estimated the construction period to be approximately 4 months long.

Although we believe that each of the three consultants is competent to perform the work as outlined in our invitation and terms of reference we recommend, after a thorough analysis of each of the proposals, that the Corporation of Burnaby enter into an Engineering Agreement with Associated Engineering Services Ltd.

RECOMMENDATIONS

1. THAT the Corporation of Burnaby enter into an Engineering Agreement with Associated Engineering Services Ltd. to provide the necessary engineering services as outlined in the Municipal Engineer's letter to them dated 1978 06 20, and in accordance with the consultant's proposal dated 1978 07 06, for upset fees including disbursements of \$21,200 for design and \$5,300 for office administration of construction and hourly rates for time actually spent for resident supervision and field layout.

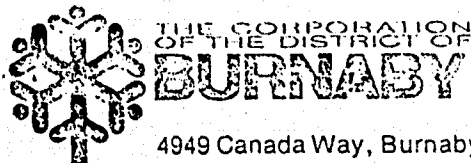

MUNICIPAL ENGINEER

VNW/cc

Atts

c.c. () Municipal Treasurer

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4949 Canada Way, Burnaby, B.C. V5G 1M2

Engineering Department

Telephone (604) 294-7460

78 06 20

Associated Engineering Services Ltd.
1661 West 8th Avenue
Vancouver, B. C.
V6J 1V1

Dear Sirs:

Re: Engineering Services for the design and
supervision of watermain construction on
the Barnet Highway.

As part of our 1978 design program for watermain construction, I hereby invite you to submit a proposal to provide the requisite engineering services for the design, contract preparation, layout and supervision of watermain construction on the Barnet Highway, including localized up-grading on Hastings and Duthie Streets.

This project has been initiated by the high demand for fire flow supplied to the industrial properties at the extreme east end of the Municipality and the attached report prepared by the Greater Vancouver Water District outlines a couple of alternative methods of how we might best provide such an increase supply. Further to the content of the report, the Corporation of Burnaby has already decided to go with Alternative No. 1, namely the alternative including the use of the existing reservoir. The Corporation of Burnaby has also had a study of the existing reservoir done and the results of that study are available upon request. An itemized list of the various improvements making up this project are included within the accompanying report and are repeated in Schedule A, which is also attached.

In detail the project will include all field survey for establishing location and grade, the design of the mains including connections and fire hydrants, the preparation of a Schedule of Quantities, Specifications and Contract Documents, preparation of a cost estimate, all survey layout and control and general resident on-site inspection and supervision.

All works shall be to the Corporation of Burnaby's current standard. Information regarding existing "as built", bench marks and survey control plans will be made available by contacting the undersigned. All drawings and documents will be prepared in metric format. I would also advise that this work will be done under an Engineering Agreement as per sample Agreement attached.

(cont'd)

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Associated Engineering Services Ltd.
1661 West 8th Avenue
Vancouver, B. C.
V6J 1V1 - cont'd

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The Consultant will be responsible for liaisoning with the Department of Highways and providing the Municipality with a schedule for designing, preparing documents, and constructing the works within this project.

The Corporation of Burnaby is desirous of completing this project as soon as possible, however, recognizing that the construction phase may be limited to the dry weather months only.

We would appreciate receiving a proposal on or before 78 07 07 and such a proposal should indicate the manner of payment for the various facets of the work and include a resume of the personnel you intend using for each facet.

Yours truly,

E. E. Olson, P. Eng.
MUNICIPAL ENGINEER

by: V. N. Wiebe, P. Eng.
DESIGN ENGINEER

VNW:cj
Attachments

cc: (✓) Design Engineer --

SCHEDULE "B"

Engineering Services for Construction Supervision
and Inspection for the Barnet Highway Watermain
Project.

1. Provide office administration of construction including checking of construction proposals, interpretation of drawings and specifications to the contractor, evaluation of material to be installed for approval by the Corporation, routine visits by senior Engineering personnel to inspect the execution of the work, certification of interim and final payment to the contractor and preparation of as-built record drawings.
2. Provision of resident inspection and survey staff for detailed layout of all work and supervision of construction of the work as authorized by the Corporation.
3. Maintain a daily work diary of each days work for submission to the Corporation at completion of construction, submit to the Corporation a weekly progress report on the progress of the work, maintain continuous close liaison with the Corporation throughout the course of construction, in order to ensure that all work is performed to the satisfaction of the Corporation.