

Re: ENGINEERING SERVICES FOR THE DESIGN AND SUPERVISION  
OF WATERMAIN INSTALLATION ON WIGGINS STREET BETWEEN  
BYRNE ROAD AND MARSHLAND AVENUE

Following is a report from the Municipal Engineer on proposals for professional engineering services relative to the installation of a watermain on Wiggins Street.

RECOMMENDATION:

1. THAT Webb Engineering Ltd. be retained to provide engineering services as outlined in the Municipal Engineer's letter dated September 14, 1976 and in the reply from the firm dated September 23, 1976.

\* \* \* \* \*

TO: MUNICIPAL MANAGER 7 OCTOBER, 1976  
FROM: MUNICIPAL ENGINEER  
RE: ENGINEERING SERVICES FOR THE DESIGN AND SUPERVISION  
OF WATERMAIN INSTALLATION ON WIGGINS STREET BETWEEN  
BYRNE ROAD AND MARSHLAND AVENUE

Our current budget contains provision for the installation of a watermain on the Wiggins Street road allowance between Byrne Road and Marshland Avenue. This watermain is one of the last phases of trunk watermain installations in the Big Bend Area.

We invited proposals for engineering services as per the Municipal Engineer's letter dated September 14, 1976, copy attached, from the following three firms:

1. Web Engineering Ltd.
2. Kerr Wood Leidal Associates Ltd.
3. Dayton & Knight Ltd.

All three firms responded and indicated that they would be prepared to do the work and that remuneration would be in accordance with the latest edition of the Schedule of Fees as published by the Association of Professional Engineers of B.C.

More specifically, the details of each proposal are summarized as follows:

Web Engineering Ltd.

The estimated fee for field survey, design, drafting and tender document preparation would be \$3,100. plus an estimated \$2,500. for soils investigations and foundation recommendations. The latter to be done by Golder Associates as a sub-consultant.

(cont'd)

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The estimated fee for resident supervision and inspection would be \$3,000. per month (project is estimated to take approximately two months to complete). All fees exclude recognized disbursements.

Kerr Wood Leidal Associates Ltd.

Estimated fees for all facets of the design to the point of awarding a contract are \$6,200. to \$7,200. plus an additional estimated fee of \$9,400. to \$10,300. for resident inspection and layout based on an eight week construction period. Again all fees exclude disbursements. This proposal also recommended the combining of the construction phase of this project with that of two other installations for which this firm is currently acting as resident engineers. The suggested cost savings would reduce the estimated fees for inspection and supervision to approximately \$6,400. Although this cost saving is significant, we do not feel that we could justify further delays to the other two projects because of the numerous delays both of these projects have already suffered over the past year.

Dayton & Knight Ltd.

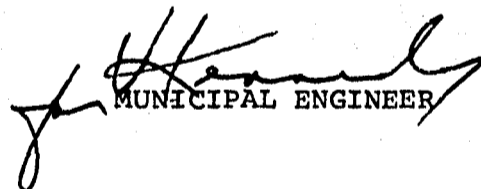
Estimated fees for all facets of the design are \$7,500. plus an additional fee of approximately \$6,000. per month for full time resident inspection and supervision.

This work is somewhat specialized because of the nature of the soil conditions and although Web Engineering Ltd. has no direct experience in this Municipality with watermain installations requiring somewhat special design and construction techniques they do intend on using personnel with considerable experience in designing and installing other utilities and services where the soil conditions were at least as bad or possibly worse.

RECOMMENDATION:

THAT Web Engineering Ltd. be retained to provide engineering services as outlined in the Municipal Engineer's letter dated September 14, 1976 and as detailed in their proposal dated September 23, 1976.

VNW:wlh  
Attach.

  
MUNICIPAL ENGINEER

ITEM 6  
MANAGER'S REPORT NO. 64  
COUNCIL MEETING Oct. 12/76



THE CORPORATION OF THE DISTRICT OF BURNABY

MUNICIPAL HALL  
4949 CANADA WAY  
BURNABY B.C. V5G 1M2

The Office of the Engineer

14 September, 1976

Web Engineering Ltd.  
1861 Welch Street  
North Vancouver, B.C.  
V7P 1B7

Dear Sir:

Re: Engineering Services for the Design  
and Supervision of Watermain Installation  
on Wiggins between Byrne & Marshland

To complete our 1976 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 a watermain installation on Wiggins Street between Byrne Road and Marshland Avenue. This watermain should be 10" diameter steel with appropriate appurtenances to recognize the poor soil conditions which exist in this area.

More specifically, the project would include all field survey for establishing location and grades; a study of the sub-soil; the design of the main including connections and fire hydrants; the preparation of a schedule of quantities; specifications and contract documents; the preparation of a cost estimate; all survey layout and control and general resident on-site inspection and supervision.

All work shall be to the Corporation of Burnaby's standards. All facets of this project, excluding layout and inspection shall be completed and approved by December 1, 1976. The Corporation will provide pertinent as built, bench marks and survey control plans.

We would appreciate receiving your proposal on or before September 24, 1976. Your proposal should indicate manner of payment for the various facets and include a resume of the key personnel you intend using for the layout and supervision.

Yours truly,

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

VNW:wlh

cc: ) Design Engineer

) Operations & Construction Engineer

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