

ITEM	14
MANAGER'S REPORT NO.	38
COUNCIL MEETING	1978 05 15

Re: ENGINEERING SERVICES FOR A SOILS REPORT
 BOUNDARY ROAD/MARINE WAY INDUSTRIAL AREA
 (Item 24, Report No. 69, 1977 October 11)
 (Item 7, Report No. 10, 1978 February 06)

Following is a report from the Municipal Engineer on proposals that have been received for engineering services.

A copy of the proposal from Cook, Pickering & Doyle Limited is attached to Council's agendas.

RECOMMENDATION:

1. THAT the Corporation enter into an Engineering Agreement with Cook, Pickering & Doyle Limited to provide engineering services as outlined in the Municipal Engineer's letter to the firm dated 1978 April 28, and in accordance with the consultant's proposal dated 1978 May 02, for fees excluding disbursements estimated to be \$6,500.

78 05 10

TO: MUNICIPAL MANAGER
 FROM: MUNICIPAL ENGINEER
 SUBJECT: ENGINEERING SERVICES FOR A SOILS REPORT IN THE BOUNDARY ROAD/MARINE WAY INDUSTRIAL AREA

Earlier this year the Council considered the Boundary Road/Marine Way Industrial Area Report and one of the recommendations approved at that time was to give the Municipal Engineer the authority to retain a consultant to prepare a report on the soils in the subject study area and to recommend a procedure for the requisite land filled operation.

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

Cook Pickering & Doyle Ltd. - \$ 6,500.00
 R.M. Hardy & Associates Ltd. - \$ 7,250.00
 Golder Associates - \$12,500.00
 Klohn Leonoff Consultants Ltd. did not include a complete estimate of engineering fees.

All the above fees are estimates only and do not include the standard disbursements such as transportation costs, long distance telephone calls, rental of specialized equipment and reproduction and duplicating services.

(cont'd)

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As we believe that all four firms are competent to perform the work outlined in our invitation and terms of reference, we would therefore recommend that the Corporation of Burnaby enter into an Engineering Agreement with Cook Pickering & Doyle Ltd. who have indicated by way of their proposal that they will undertake the necessary work for a very reasonable engineering fee.

RECOMMENDATION:

1. THAT the Corporation of Burnaby enter into an engineering agreement with Cook Pickering & Doyle Ltd. to provide the engineering services as outlined in the Municipal Engineer's letter to them, dated 78 04 28, and in accordance with the consultant's proposal, dated 78 05 02, for fees excluding disbursements estimated to be \$6,500.00.

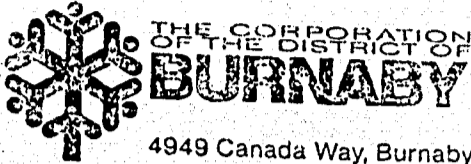

MUNICIPAL ENGINEER

VNW/cc

Atts.

c.c. () Director of Planning
() Land Agent

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

Department of the Engineer

Telephone (604) 294-7460

78 04 28

Cook Pickering & Doyle Ltd.
835 W. 7th Avenue
Vancouver, B.C.
V5Z 1C2

Dear Sirs:

Re: Engineering Services for a Soils
Report in the Boundary Road/Marine
Way Industrial Area.

The Boundary Road/Marine Way Industrial Area is an integral part of the adopted Big Bend Development plan and our Municipal Council has agreed in principle to the development of this industrial area; however, prior to implementation the Municipality would like to confirm the economic and practical viability of developing this land as industrial property.

To this end we would, hereby, invite you to give serious consideration to submitting a proposal for your engineering services for the preparation of a soils report and a land fill procedure as detailed on the attached Schedule "A". In your report please recognize that there will be extensive servicing required if this proves to be viable as an industrial site and, therefore, the report should be presented in such a manner that at some future date the report can be made available to a Design Consultant without extensive supplementation being required.

As the Corporation is rather anxious to proceed with this project, would you please include a time work schedule. Your proposal should also outline the manner of payment and include a brief resume of the personnel who would be assigned to this project. The latter would include a list of any sub-consultants whom you propose to use.

Due to time restrictions we would appreciate receiving your proposal on or before 78 05 09.

Yours truly,

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

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

VNW/cc
c.c. (✓) Design Engineer

SCHEDULE "A"

Soils Report and Landfill Procedure for Municipal Property in
Boundary Road/Marine Way Industrial Area

This entire area lying within the Fraser River floodplain, is relatively flat and poorly drained and will require filling. To date the Corporation has been recommending that all properties within the floodplain be filled to an elevation which would provide for a gravity drainage system directly to the Fraser River. Based on preliminary investigations this would mean an average of approximately 2 M. of fill over the entire area.

By way of a comprehensive report we are looking for detailed technical advice as to what is the most overall efficient and economic procedure for such a landfill operation including reference to the type of fill material recommended. The report should also deal with the "additional" costs related to filling and treating this land in order to make it viable for industrial development.

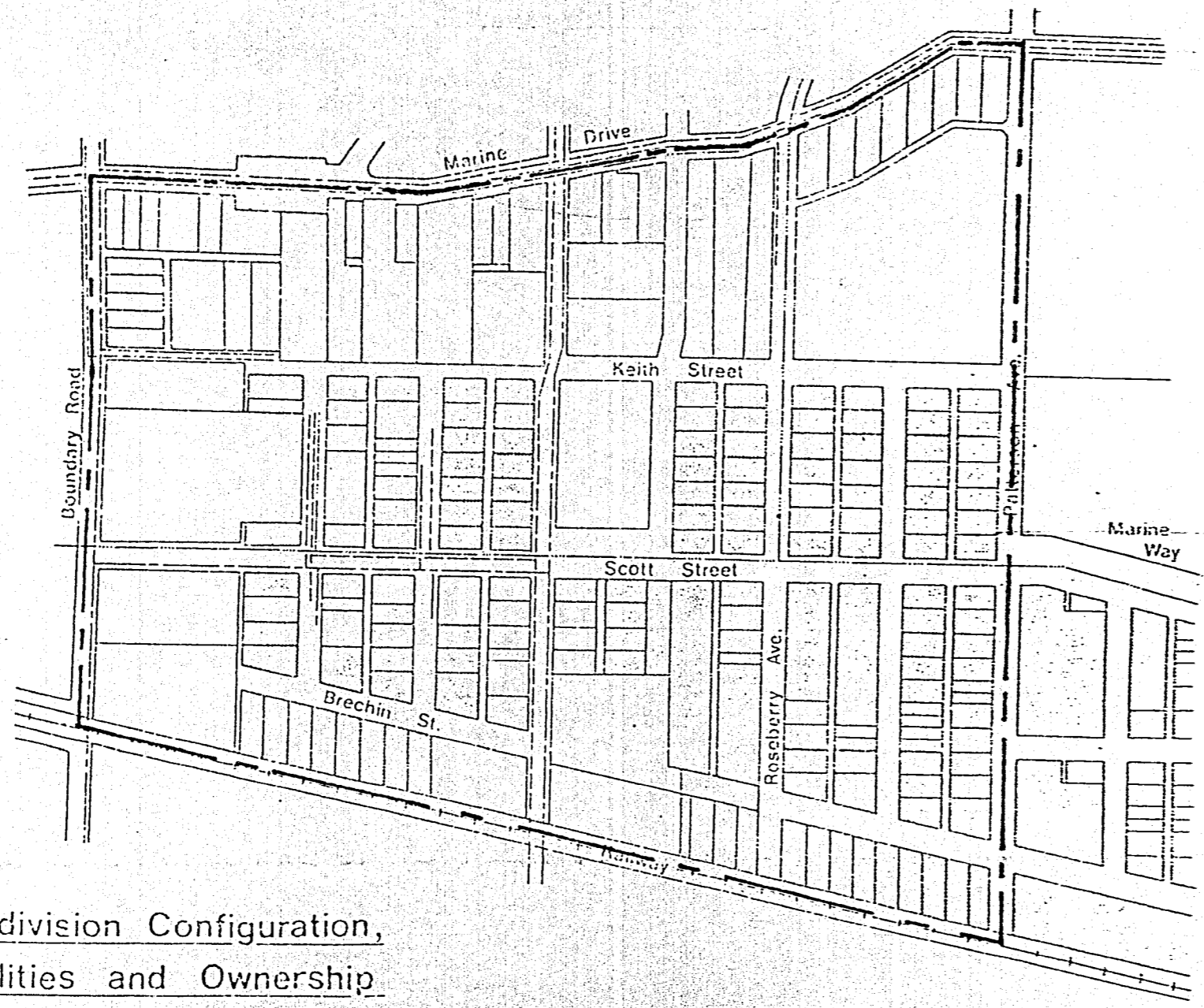
In preparing this report the consultant must recognize existing land use and amenities such as watercourses as well as proposed land use and subdivision as shown on the enclosed plan.


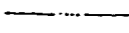
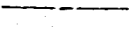
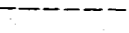
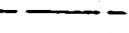
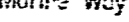
The Consultant shall also advise on the recommended procedures for building construction and site development.

The Area involved is all the Municipal lots (see enclosed figure 5) between Boundary Road, Marine Drive, Patterson Avenue and the B.C. Hydro railway.

Because of the nature of the soil a number of independent soil studies have been done over the past number of years. As part of the Consultant's report we would ask for an analysis and interpretation of the following existing data:

- (1) Department of Highways work along Scott Street in conjunction with the proposed construction of Marine Way. The Consultant's contact would be Mr. E.E. Readshaw, Director of Highway Design and Surveys in Victoria.
- (2) MacMillan Bloedel landfill program south of the Hydro railway. The contact for information would be Mr. Doug McCrimmon at 683-6711
- (3) Recent warehouse development at the intersection of Boundary and Scott. The enclosed report by Cook Pickering & Doyle Ltd. has been made available by the developer.



-  Municipal Land
-  Sanitary Sewers
-  Watermains
-  Natural Gas
-  Boundary Road
-  Marine Way Industrial Area

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Figure 17



Existing Subdivision Configuration,
Municipal Utilities and Ownership
Boundary Road-Marine Way Industrial Area

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