

ITEM	13
MANAGER'S REPORT NO.	30
COUNCIL MEETING	88/04/25

RE: 1987 LOCAL IMPROVEMENT PAVING PROGRAM: CONSTRUCTION SUPERVISION

MUNICIPAL MANAGER'S RECOMMENDATION:

1. THAT the recommendation of the Director Engineering be adopted.

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TO: MUNICIPAL MANAGER 1988 APRIL 18

FROM: DIRECTOR ENGINEERING

**SUBJECT: 1987 LOCAL IMPROVEMENT PAVING PROGRAM:
CONSTRUCTION SUPERVISION**

RECOMMENDATION:

THAT R.F. Binnie & Associates Ltd. be retained to provide engineering consulting services for construction supervision of the 1987 Local Improvement Paving Program.

R E P O R T

Preamble

Council at its regular meeting of 1988 March 21 received the Municipal Clerk's Certificate of Sufficiency covering the 1987 Local Improvement Paving Program, and Council further authorized the preparation of local improvement Construction Bylaws for each of the surviving projects. Implementation of this program is scheduled for the 1988 construction season (Spring/Summer/Fall). It is intended that the construction works be undertaken by contract and consequently a professional engineering consultant is required to provide services of construction supervision. More specifically, the consulting services we require include contract preparation and administration, survey for construction layout, resident field inspection, and general engineering supervision. Engineering proposals were invited from three (3) consulting engineering firms, each of which has had extensive experience in supervising works construction calling for expertise in this particular discipline of professional civil engineering.

Engineering Proposals

The three companies invited to propose on the project are all well-established firms having engineers and technicians on staff who are highly qualified in this work. The companies were:

R.F. Binnie & Associates Ltd.
Associated Engineering (B.C.) Ltd.
Vector Engineering Services Ltd.

The consultants were asked to provide details of the experience and expertise of each of their respective firms and assigned staff related to this type of project, together with

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details of their intended method of approach to the project. They were also requested to submit a detailed work schedule and a schedule of "per diem" rates for their services.

Proposal Review

The submitted proposals were reviewed by a selection committee comprised of senior members of the Engineering Department. This review process included assessment of the proposals based on predetermined factors such as: the consultant's company and assigned staff experience and expertise, proven ability based upon the consultant's previous work history in Burnaby (either for the Corporation or otherwise), list of references, understanding of the nature of the work, proposed methodology, innovation, total cost implications, scheduling, and public relations.

Individual assessment by members of the selection committee of each of the factors on a scored points basis provided a quantitative method for the consultant evaluation process. It should be noted that all three consultants are considered competent to do the work and the quantitative rating represented an appraisal of the Corporation's particular needs in this specific local improvement program.

Consultant Selection

The evaluation rating method established R.F. Binnie & Associates Ltd. as the leading candidate who would most closely meet the needs of the Corporation. R.F. Binnie & Associates have extensive experience in local improvement type works in Burnaby as well as surrounding municipalities. Their staff demonstrated a complete understanding of the project and concern for the sensitive nature of this particular type of work.

None of the consultants invited to propose on the project submitted a fixed maximum fee, primarily because it is unrealistic to do so given the number of variables with potential to impact on their fees. All indicated their preferred method of remuneration would be on a per diem basis for actual hours worked. Your Director Engineering concurs that this method of payment is the most suitable for work of this nature.

As mentioned, total cost implications was a factor in the evaluation process. R.F. Binnie & Associates Ltd. submitted a proposal which was competitive in terms of per diem rates and was also the most attractive to the Corporation in terms of total cost-effectiveness.

It is therefore recommended that the firm of R.F. Binnie & Associates Ltd. be retained to provide engineering consultant services for construction supervision of the 1987 Local Improvement Paving Program. The Purchasing Agent concurs with this recommendation.

The Consultant and the Corporation will enter into an Engineering Agreement which includes the Corporation's Terms of Reference and the Consultant's Engineering Proposal as integral parts.

Professional Engineering Fees

The 1986 Local Improvement Paving Program was carried out with an engineering fee component of approximately 9% of total construction cost. The 1987 engineering fee component was targeted for approximately 8% and resulted in a proposal embodying engineering fees of 8.1% of the construction cost component.

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The Engineering Department is of the opinion that a targeted total engineering fee of 8% of the estimated construction contract is required to maintain the level of inspection and public relations required for this important and integral component of the Corporation's 1988 Capital Works Construction Program. The estimated cost of contracted construction for this year's L.I.P. Program is \$2,000,000, and therefore the estimated total cost of construction supervision (the subject of this report) would be \$160,000.

Financing

The estimated total cost of the 1987 L.I.P. Program approved by Council is \$2,656,300; Council has already adopted Construction Bylaws totalling \$2,608,700. The balance of \$47,600 is the estimated cost of the project on Winnifred Street which was varied by petition. Council has directed that this project be initiated as part of the 1988 Program.

The Construction Bylaws include sufficient funds to cover the approximately \$2,000,000 worth of work which will be done by construction contract, with the balance being spent on ancillary works such as utility adjustments, work by Corporation forces, and engineering fees (the subject of this report).

HDH:dp

cc: Director Finance
Purchasing Agent


DIRECTOR ENGINEERING

