

RE: 1986 LOCAL IMPROVEMENT PAVING PROGRAM
CONSTRUCTION SUPERVISION

(Certificate of Sufficiency, Item 5a, 1987 January 26)

MUNICIPAL MANAGER'S RECOMMENDATION:

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

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TO: MUNICIPAL MANAGER 1987 FEBRUARY 24

FROM: DIRECTOR ENGINEERING

SUBJECT: 1986 LOCAL IMPROVEMENT PAVING PROGRAM
CONSTRUCTION SUPERVISION

RECOMMENDATION:

THAT R. F. Binnie and Associates Ltd. be retained to provide Engineering Consulting Services for Construction Supervision of the 1986 Local Improvement Paving Program.

R E P O R T

Preamble

Council at its regular meeting of 1987 January 26 received the Municipal Clerk's Certificate of Sufficiency covering the 1986 Local Improvement 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 1987 spring/summer construction season. It is intended that the construction works be undertaken by contract and it is necessary for the Corporation to retain a Professional Engineering Consultant to provide services of construction supervision. More specifically, the consulting services which we require include contract preparation and administration, survey for construction layout, resident inspection and general engineering supervision. Engineering proposals were invited and have been received from five (5) Engineering Consulting Engineers.

Engineering Proposals

The five companies invited to propose on the project are all well established firms having qualified engineers and technicians on staff. The companies were:

Associated Engineering (B. C.) Ltd.
McElhanney Engineering Services Ltd.
R. F. Binnie and Associates Ltd.
Reid Crowther and Partners Ltd.
Vector Engineering Services Ltd.

The consultants were asked to provide details of their experience and expertise related to this type of project together with details of their intended method of approach to the project. They were also requested to submit a work schedule and a schedule of "per diem" rates.

Proposal Review

The submitted proposals were reviewed by a selection committee comprised of four senior members of the Engineering Department, namely, Messrs. Olson, Sinclair, Hext, and Brinkhurst. 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.

In addition, interviews were conducted by the selection committee in which the consultant's office and field staff, specifically those individuals who were to be assigned to this particular project, were assessed on such factors as: concerns for safety, impartiality, flexibility, innovation, public relations, contract interpretation, and decisiveness.

Individual assessment by members of the selection committee of each of the factors on a scored points basis provided a quantitative method for consultant's evaluation. It should be noted that all five 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 and Associates Ltd. as the leading candidate who would most closely meet the needs of the Corporation. R. F. Binnie and Associates have extensive experience in local improvement program 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 five 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 and Associates submitted a competitive fee schedule of per diem rates.

It is therefore recommended that the firm of R. F. Binnie and Associates be retained to provide engineering consultant services for construction supervision of the 1986 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:

Last year's report regarding this same selection process stated: "Our past experience has shown that the engineering fee component of the total cost approximates 10% of the contract payment

ITEM 9
MANAGER'S REPORT NO. 15
COUNCIL MEETING 87/03/02

-3-

component." This historical cost figure was more than affirmatively confirmed by the actual cost of the engineering fees in the 1985 L.I.P. project which will be brought in at a projected final cost of approximately 9% of the total construction contract payment component.

As for the 1986 L.I.P. Program, the Engineering Department intends to effect some additional innovations which will achieve still further efficiencies and result in targeted total engineering fees of 8% of the estimated construction contract cost component of \$3,000,000. Under such a scenario, the total cost of construction supervision (the subject of this report) would be \$240,000.

Financing:

The estimated total cost of the 1986 L.I.P. Program approved by Council is \$3,705,200. Council has adopted Construction Bylaws totalling \$3,608,000. The balance of \$97,200 is the estimated cost of two projects which were varied by petition. Council has directed that Construction Bylaws also be prepared for these two projects.

The Construction Bylaws include sufficient funds to cover the cost of the engineering works as described in this report. Approximately \$3,000,000 worth of work 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.

HDH:m1

cc: Director Finance
Purchasing Agent


DIRECTOR ENGINEERING

