

ITEM	24
MANAGER'S REPORT NO.	54
COUNCIL MEETING 1978 07 31	

RE: ENGINEERING SERVICES FOR THE DESIGN OF IMPROVEMENTS  
TO NORTH ROAD BETWEEN HIGHWAY NO. 1 AND THE BURNABY/  
NEW WESTMINSTER BOUNDARY

Following is a report from the Municipal Engineer regarding Engineering Services for improvements to a section of North Road.

Attached as background information are copies of previous reports that Council has received on this matter (Item 33, Supplementary Report No. 84, 1977 December 12 and Item 9, Report No. 75, 1977 October 31).

Engineering staff members from all four jurisdictions have unanimously agreed that N.D. Lea and Associates Ltd. is the one firm most suitably qualified to carry out the somewhat unique combination of particular elements to be found in the North Road project. This realization, coupled with the unanimous opinion of all affected parties that N.D. Lea's estimates for the cost of the engineering work are reasonable, rendered inappropriate any consideration of inviting proposals from other engineering firms.

RECOMMENDATION:

1. THAT the Municipal Engineer's recommendations be adopted.

\* \* \* \* \*

78 07 26

TO: MUNICIPAL MANAGER

FROM: MUNICIPAL ENGINEER

SUBJECT: ENGINEERING SERVICES FOR THE DESIGN OF IMPROVEMENTS  
TO NORTH ROAD BETWEEN HIGHWAY NO. 1 AND THE BURNABY/  
NEW WESTMINSTER BOUNDARY.

Council will recall that at their meeting on 1977 12 12, they adopted a recommendation that a further submission be made to the Honourable Alex V. Fraser, Minister of Highways and Public Works, seeking confirmation of his 1977 02 14 letter concerning cost sharing arrangements for the reconstruction of North Road between Highway No. 1 and the New Westminster/Burnaby border. We have now received such confirmation from the Minister of Highways and Public Works for their share of the design fees for this project. We have also confirmed that the District of Coquitlam and the City of New Westminster have received similar confirmations from the Minister of Highways and Public Works. In addition to the aforementioned, each of the Municipalities have received budgetary approval for their own share of these design fees.

As noted in our earlier report, dated 1977 12 09, the proposals from the Consulting Engineer have been thoroughly discussed by the Engineering Departments of Burnaby, Coquitlam, and New Westminster and by the Engineers from the Ministry of Highways, and they are in unanimous agreement to retain the Consulting Firm of N.D. Lea and Associates Ltd. for the design improvements to North Road between Highway No. 1 and the Burnaby/New Westminster border including all requisite plans and documentation necessary for a submission to the appropriate authorities for a Board Order and subsidy.

The scope of the work is to be in accordance with the terms of reference noted in the Engineer's letters, dated 1977 10 13 and 1977 11 10 (copies attached), and in accordance with proposals submitted by N.D. Lea and Associates Ltd., dated 1977 10 20 and 1977 11 23 (copies are available for perusal). The estimated total design fees are \$92,000 which will be shared in the following manner:

(cont'd)

208

ITEM	24
MANAGER'S REPORT NO.	54
COUNCIL MEETING 1978 07 31	

Ministry of Highways and Public Works	- \$46,000.	209
Corporation of Burnaby	- \$23,000.	
District of Coquitlam	- \$20,500.	
City of New Westminster	- \$ 2,500.	

In an effort to achieve conformity throughout the length of this project which ultimately extends to Braid Street in New Westminster, we have just received verbal confirmation from the Engineering Department of the City of New Westminster that their Council has adopted a recommendation to retain N.D. Lea and Associates Ltd. for the design of improvements of that portion within the City of New Westminster and that they will be proceeding almost immediately. In conjunction with the portion north of the Brunette River, both the City of New Westminster and the District of Coquitlam have agreed to letting the Corporation of Burnaby administer the design agreement.

RECOMMENDATIONS:

1. THAT the Corporation of Burnaby enter into an Engineering Agreement with N.D. Lea and Associates Ltd. for the design of road and bridge improvements on North Road between Highway No. 1 and the Burnaby New Westminster border in accordance with the Municipal Engineer's terms of reference outlined in his letters dated 1977 10 13 and 1977 11 10 respectively, and in accordance with N.D. Lea and Associates Ltd. proposals dated 1977 10 20 and 1977 11 23 respectively, for an estimated fee of \$92,000 excluding disbursements which fee will be shared by the Ministry of Highways and Public Works, the District of Coquitlam, the City of New Westminster, and the Corporation of Burnaby in the proportions noted in the text of this report, and
2. THAT a copy of this report item be sent to the City Engineer of the City of New Westminster, the Municipal Engineer of the District of Coquitlam and the Regional Highway Engineer for the Ministry of Highways and Public Works.

*E.E. Olson*  
MUNICIPAL ENGINEER

VNW/cc  
Att.  
c.c. ( ) Director of Planning  
( ) Municipal Treasurer

ITEM	24
MANAGER'S REPORT NO.	54
COUNCIL MEETING	1978 07 31

13 October, 1977.

N. D. Lea & Associates Ltd.  
1455 W. Georgia Street  
Vancouver, B. C.  
V6G 2T5

Attention: Mr. J. A. C. Andrews, P. Eng.

Dear Sirs:

Re: Engineering Services for the Design of North Road between Highway #1 and a point approximately 200 feet North of the Burnaby-New Westminster boundary.

In conjunction with the Municipalities of Coquitlam and New Westminster and the Ministry of Highways, we have scheduled the major improvements to North Road between Highway #1 and a point approximately 200 feet north of the Burnaby-New Westminster boundary, for construction in 1979 and 1980. The initiation of this phase will be undertaken jointly with the District of Coquitlam with subsidies from the Ministry of Highways, the C.T.C. and the Railway Company. In order to maintain this scheduling program, we would like to commence design this year and therefore request that you submit a proposal for your Engineering services for the Design of this project including all the requisite plans and documentation necessary for a submission to the Canadian Transport Commission for a Board Order and Subsidy under the Railway Relocation and Crossing Act, 1974.

The bridge over the Burlington Northern, which forms part of this major road link, was originally constructed by the railway and as such I would strongly emphasize that when applying to the C.T.C., we expect the maximum contribution from the Railway Company towards its replacement. This may involve you in considerable negotiations on our behalf with the Railway Company and with the C.T.C. officials to obtain necessary authorization for the work together with justification for the maximum financial contributions from those two agencies. We have been advised that favourable consideration will be given by the Ministry of Highways to fund 50% of the Municipal share of the cost of this project.

I would also point out that because of the location of this street in relationship to other possible north-south routes, that it is imperative that traffic be maintained at all times during construction.

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ITEM	24
MANAGER'S REPORT NO.	54
COUNCIL MEETING 1978 07 31	

211

13 October, 1977.

N. D. Lea & Associates Ltd.  
1455 W. Georgia Street  
Vancouver, B. C.  
V5G 2T5 - cont'd

- 2 -

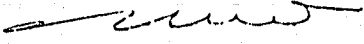
I would also bring your attention to recent work done by the consulting firm of Buckland & Taylor with respect to assessing the existing structure from a point of view of load-carrying capacity and methods of accomplishing its widening while maintaining two lanes of traffic. In this respect, you may wish to consult with Buckland & Taylor and thereby avoiding duplication of effort.

Due to the involvement of other agencies such as the District of Coquitlam and the Ministry of Highways, I would request that your submission be as detailed and concise as possible. Your proposal should include a complete list of personnel you hope to employ on this project including any sub-consultants. We would also request that your submission include an estimate of fees, so that the various agencies may budget accordingly.

As we are rather anxious to initiate the preliminary stages of this project, please submit your proposal by not later than October 31, 1977.

Yours truly,

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

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

VNW:cj  
Attach.

cc: ( ) District of Coquitlam  
(Mr. A. Phillips, P. Eng.)  
( ) City of New Westminster  
(Mr. E. Goodman, P. Eng.)  
( ) Ministry of Highways  
(Mr. A. Walessar, P. Eng.)

ENGINEERING SERVICES FOR THE DESIGN OF NORTH ROAD  
BETWEEN HIGHWAY #1 AND A POINT APPROXIMATELY 200 FEET  
NORTH OF THE BURNABY - NEW WESTMINSTER BOUNDARY.

This Project shall include all field survey, drafting and design work necessary to prepare a complete set of construction drawings specifications and tender contract documents. It shall also include all plans, cost estimates and reports necessary for submission to the Canadian Transport Commission for a Board order and subsidy under the Railway Relocation and Crossing Act, 1974. This work shall be carried out in consultation with and in accordance with the requirements of the Corporation of Burnaby and shall be generally based on the following:

- a) Design and prepare plans and specifications for a 4-lane roadway (46 foot width), with curbs and gutters on both sides including all ancillary structures required to support the roadway. In conjunction with this, we would request that you assess the need for left turn bays at the various intersections and/or driveways and design the details in accordance with the traffic volumes related to each of these. This also shall include the design of sidewalks on both sides for the entire length.
- b) Design and prepare plans and specifications for storm sewers and/or culverts where necessary to complete this project.
- c) Design and prepare plans and specifications for ornamental street lighting throughout this Project.
- d) Design and prepare plans and specifications for the structure overpassing the Burlington Northern Railway including all related drainage facilities, lighting and sidewalks on both sides.
- e) Contact and make arrangements with all affected Government Agencies and utility Companies with respect to securing their approvals for the proposed works and providing estimates for relocation of any of their plant facilities as made necessary by this project.
- f) Conduct the necessary geotechnical surveys in order to confirm the adequacy of the subgrade.
- g) Provide a schedule of quantities for the structure and the roadworks, the drainage system and all ancillary works and an estimate of cost for all of these works.
- h) Provide detailed sketches of all right-of-way requirements sufficiently detailed to have the Corporation of Burnaby Land Surveyors prepare the necessary legal plan.
- i) All plans and specifications are to be prepared in metric format.

ITEM	24
MANAGER'S REPORT NO.	54
COUNCIL MEETING	1978 07 31

213

10 November, 1977.

N. D. Lea & Associates Ltd.  
1455 W. Georgia Street  
Vancouver, B. C.  
V6C 2T5

Attention: Mr. J. A. C. Andrews, P. Eng.

Dear Sirs:

Re: Engineering Services for the Design of North Road between the New Westminster/Burnaby boundary and a point approximately 200 feet north.

Further to our earlier request for a proposal for engineering services for the portion of North Road between Highway #1 and a point 200 feet north of the New Westminster-Burnaby boundary and receipt of such a proposal from you we have now reached agreement with all parties to extend the design of improvements on North Road southward to the New Westminster-Burnaby boundary.

I therefore would invite you to submit a separate proposal for your engineering services for the study and design of improvements on North Road between the New Westminster-Burnaby boundary and a point approximately 200 feet north thereof. The principle element of design in this portion is a bridge crossing of the Brunette River. In addition to all the conditions outlined in my letter of October 13, 1977 relating to the northerly portion and which should apply to this portion, would you please make allowances in your proposal for the investigation of creating a public walkway link along the Brunette River under the bridge which would be sufficiently high to avoid flooding. Also as emphasized in my October 13, 1977 terms of reference, it is imperative that traffic be maintained at all times during construction.

Due to the involvement of a large number of other agencies, I would request that your submission be comprehensive and include an estimate of your fees, where possible, for each phase, as you did with the previous proposal. I would also request that your proposal be submitted not later than November 25, 1977 so as to allow us sufficient time to include the necessary funds in the 1978 budget.

Yours truly,

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

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

VNW:cj

ITEM	24	
MANAGER'S REPORT NO.	54	33 (SUPPLEMENTARY)
COUNCIL MEETING 1978 07 31		ER'S REPORT NO. 84
		COUNCIL MEETING Dec. 12/77

Re: LETTER DATED DECEMBER 1, 1977 FROM MR. R. S. MACDONNELL,  
 MANAGER, NEW WESTMINSTER AND DISTRICT CHAMBER OF COMMERCE  
 NORTH ROAD AND EAST COLUMBIA STREET WIDENING  
 (Item 9, Report No. 75, October 31, 1977)

Appearing on the agenda for the December 12, 1977 Council meeting is a copy of a letter dated December 1, 1977 from Mr. R.S. Macdonnell, Manager, New Westminister and District Chamber of Commerce asking that all concerned arrange for a meeting with Federal, Prov. and Municipal political representatives on the widening of North Road and East Columbia Street.

Following is a report of the Municipal Engineer dated December 9, 1977 in this connection.

The 1978 Provisional C.I.P. provides in Schedule "C" - Major Roads (page 9) for Burnaby's share of the design costs of this project. These costs will have to be updated, and the Municipal Engineer is now in the process of doing this. The purpose of this report is not to seek authority to make the necessary expenditure, but rather to re-confirm our position on the project and to seek the Province's confirmation of its position concerning cost sharing arrangements for the reconstruction of North Road between Highway 1 and the New Westminister boundary.

RECOMMENDATIONS:

1. THAT a further submission to the Honourable Alex V. Fraser, Minister of Highways and Public Works seeking his confirmation of his 14 February, 1977 letter concerning cost sharing arrangements for the reconstruction of North Road between Highway 1 and the New Westminister border; and,
2. THAT a copy of this report item be referred to Mr. R.S. Macdonnell, Manager, New Westminister and District Chamber of Commerce, to Mr. S. Leggatt, M.P., to the City Engineer of the City of New Westminister, and to the Municipal Engineer of the District of Coquitlam.

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TO: MUNICIPAL MANAGER  
 FROM: MUNICIPAL ENGINEER  
 9 December 1977

SUBJECT: NORTH ROAD

Council has recently considered the question of the reconstruction of North Road, bordering Burnaby and Coquitlam, and E. Columbia Street, in New Westminister, by means of Item 9, Manager's Report No. 75, 31 October, 1977 - a report from the Municipal Engineer (copy attached).

In that Report Item, Council was advised that the Engineering Departments of Burnaby, Coquitlam, and New Westminister were in discussions with the Provincial Ministry of Highways with regard to calling for proposals from Engineering Consulting Firms for provision of the engineering services required for the reconstruction of North Road.

Council is now in receipt of a further letter from Mr. R.S. Macdonnell, Manager, New Westminister and District Chamber of Commerce, on the same subject. We wish to confirm that proposals have been received not only by Coquitlam and Burnaby for its portion of North Road but, also, New Westminister has received proposals for its portion of E. Columbia Street. The proposals have been thoroughly discussed by the various staff members including those from the Ministry of Highways; the staff believes that just one matter remains to be resolved and that is to obtain confirmation from the Minister of Highways that the cost sharing arrangements covered in the Minister's letter of 14 February, 1977 (copy attached) are still valid.

ITEM	24
MANAGER'S REPORT NO.	54
COUNCIL MEETING 1978 07 31	

33 (SUPPLEMENTARY)
MANAGER'S REPORT NO. 84
COUNCIL MEETING Dec. 12/77.

In the letter, the Minister advised that he would "...consider favourably a request for assistance under the Secondary Highway Program for the section of North Road between New Westminster and Highway 1..." In the same letter he advised "...I am prepared to consider recommending an Order-In-Council for similar assistance under Section 42 (4) of the Highway Act for the section between 8th Avenue and the New Westminster boundary". The time has now arrived when certain engineering costs are to be incurred and it is considered advisable to have such up-to-date confirmation.

RECOMMENDATION

- THAT the Corporation make a further submission to the Honourable Alex V. Fraser, Minister of Highways and Public Works seeking his confirmation of his 14 February, 1977 letter concerning cost sharing arrangements for the reconstruction of North Road between Highway 1 and the New Westminster border, and,
- THAT a copy of this report item be referred to R.S. Macdonnell, Manager, New Westminster and District Chamber of Commerce, to Mr. S. Leggatt, M.P., to the City Engineer of the City of New Westminster, and to the Municipal Engineer of the District of Coquitlam.

*E.E. Os*  
MUNICIPAL ENGINEER

EEO:cc  
Att.



ITEM	24	ITEM	
MANAGER'S REPORT NO.	54	MANAGER'S REPORT NO.	75
COUNCIL MEETING	1978 07 31	COUNCIL MEETING	Oct. 31/77

Re: LETTER DATED OCTOBER 18, 1977 FROM THE NEW WESTMINSTER AND DISTRICT CHAMBER OF COMMERCE  
333 BRUNETTE STREET, NEW WESTMINSTER TO MR. STUART LEGGATT, M. P.  
NORTH ROAD

Appearing on the agenda for the October 31, 1977 meeting of Council is a carbon copy of a letter that Mr. R. S. Macdonell, Manager of the New Westminster and District Chamber of Commerce, has sent to Mr. Stuart Leggatt, M. P., on the subject of North Road. Following is a report from the Municipal Engineer on this matter.

RECOMMENDATION:

1. THAT a copy of this report be sent to the New Westminster and District Chamber of Commerce, Mr. Stuart Leggatt, M. P., the City Engineer of New Westminster and the Municipal Engineer of the District of Coquitlam.

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26 October, 1977

TO: MUNICIPAL MANAGER  
FROM: MUNICIPAL ENGINEER  
SUBJECT: NORTH ROAD

Council is in receipt of copies of letters from the New Westminster and District Chamber of Commerce addressed to one of this Areas M.P.'s and three of its M.L.A.'s. Mr. Macdonell, Manager of the Chamber of Commerce, is requesting assistance in furthering the reconstruction of North Road and E. Columbia Street.

The Engineering Departments of Burnaby and Coquitlam in concert with the Provincial Department of Highways are presently calling for proposals from Engineering Consulting Firms for the provision of services necessary to get on with the job of planning for the reconstruction of North Road from the No. 1 Highway overpass to the New Westminster border. The proposals are due 31 October, 1977 and thereafter they will be discussed with the other two Government agencies involved with North Road; the report on proposals should be ready for the Burnaby Council meeting of 21 November, 1977.

One of the main aspects of the construction work will involve a full investigation of requirements for reconstruction of the overpass over the Burlington Northern Railway including any required negotiations with the Federal Government on cost sharing.

Further for the information of Council, we have involved in our discussion the City Engineer for the City of New Westminster. The City Engineer has just advised us that he is planning to conduct his own study of E. Columbia Street from the border through to Braid Street more or less concurrently with our proposed timetable for North Road itself. In this way it is indicated that we will have an integrated approach to the reconstruction of the entire portion of North Road - E. Columbia Street from the No. 1 Highway to Braid Street.

This is for the information of Council.

*ES Olan*  
MUNICIPAL ENGINEER

216

NEO:cc