



Report to: Development Services

Date Report: October 11, 2011

SUBJECT: 142-R-11 Award of Design Services for the Reconstruction of Main Street Markham from Hwy 407 to Hwy 7.

PREPARED BY: Dale MacKenzie, Ext 4055
Alain Cachola, Ext 2711
Robert Slater, Ext 3189

RECOMMENDATION:

- 1) That the report entitled "142-R-11 Award of Design Services for the Reconstruction of Main Street Markham from Highway 407 to Hwy 7", be received;
- 2) And that the contract "142-R-11 Design Services for the Reconstruction of Main Street Markham" (from Highway 407 to Highway 7) be awarded to the highest ranked and second lowest priced bidder McCormick Rankin Corporation, in the amount of \$582,632.99 HST included;
- 3) And that a contingency in the amount of \$87,394.95 inclusive of HST be established to cover any additional design, contract administration and legal costs;
- 4) And that upon successful completion of the Design Services to the satisfaction of the Engineering Department, that McCormick Rankin Corporation be retained to complete the Contract Administration and Inspection Services in the estimated amount of \$468,096 HST included (4.6% of the estimated construction costs);
- 5) And that the Director of Engineering be authorized to decrease or increase the estimated Contract Administration and Inspection Services based on a fixed 4.6% fee as per recommendation # 3 with the final tendered construction costs;
- 6) And that the Engineering Department shall apply a Project Management Fee in the amount of \$85,359.30 inclusive of HST;
- 7) And that funding for the project be provided from the approved Capital Account 083-5350-11068-005 which currently has funding in the amount of \$1,564,100.00;
- 8) And that the remaining funding in the amount of \$340,616.76 for the project be contributed towards the construction cost scheduled for 2013;

And that Staff be authorized and directed to do all things necessary to give effect to this resolution.

PURPOSE:

To award the detailed design for the reconstruction of Main Street Markham between Highway 407 and Highway 7 and upon satisfactory completion of the detailed design, retain McCormick Rankin Corporation to complete the contract administration and inspection services during construction.

BACKGROUND:

The Main Street Markham, Highway 48, and Markham Road corridor is a diverse roadway with three distinctive areas (functions) with a variety of adjacent land uses. An Environmental Assessment has recently been completed for the corridor from Highway 407 northward to the future Markham Bypass intersection (Donald Cousens Parkway) located north of Major MacKenzie Drive. The EA approved road improvements are being implemented in stages with this report dealing with the segment of Main Street Markham from Highway 407 to Highway 7.

The recommended alternative for this section of roadway is shown as Attachments Exhibit 6-1a, Exhibit 6-1b and Exhibit 6-1c.

The typical cross section for Main Street Markham between Highway 407 and Highway 7 includes the following:

- Urban section with 3 lanes;
- Inside travel lane at 3.5m;
- Curb lanes at 4.0 m to accommodate transit;
- Provision for pedestrians and active transportation – minimum 1.5m sidewalk up to 3.0m multi-use path;
- Landscaping features;
- Gateway feature to Markham Village south of Highway 7.

PROPOSAL CALL INFORMATION:

A Request for Proposal #142-R-11 was issued to the market on July 6, 2011 and included the detailed design and contract administration of Main Street Markham from Highway 407 to Highway 7, in accordance with the approved Environmental Study Report. The results of the proposals received are summarized below:

BID INFORMATION:

Advertised	ETN
Bid closed on	July 29, 2011
Number picking up documents	18
Number responding to Bid	6

PROPOSAL EVALUATION:

The Evaluation Team was comprised of Engineering Staff, with Purchasing Staff acting as the facilitator. The technical evaluation was performed based on pre-established evaluation criteria as listed in the Request for Proposal: 25% past experience of the consulting firm, 20% qualifications of the lead consultant and project team, and 25% project delivery, totalling 70%. The price component was completed by the purchasing department separately which totalled 30% and brought the total analysis to 100%.

The resulting scores are as follows;

Company	Technical Points (70%)	Financial Points (30%)	Total Points	Ranking
McCormick Rankin Corporation	64.25	14.62	78.87	1
Stantec Consulting	59.25	14.00	73.25	2
AMEC Earth and Environmental	61.00	12.13	73.13	3
AECOM Canada Limited	58.88	12.45	71.32	4
Chisholm Fleming Associates	38.13	30.00	68.13	5
Genivar Inc.	51.88	6.14	58.02	6

Note: Prices ranged from \$682,599.00 to a high of \$1,225,416.00 for the design and contract administration and inspection.

Staff recommends awarding the contract to the highest ranked proponent. McCormick Rankin Corporation was the highest in the technical evaluation (64.25 out of 70 or 91.79%) and was the second lowest bid price. Their submission indicates that they are well qualified, have successfully completed similar projects which are supported by the necessary technical sub-consultants, and have a good understanding of the scope, constraints and timing of our project. The purchasing department has completed the reference checks and confirms that all references have provided excellent responses.

As outlined within the Request for Proposal document the award of contract administration and inspection services are contingent upon the satisfactory completion of the Design Services. The cost for contract administration and inspection in the amount of \$468,096.00 (4.6%) assume a construction cost of \$10,000,000.00

To understand better the cost variance between the low priced bidder and all other bidders, staff analyzed the estimated hours by each consultant to that of the low bidder.

The number of hours provided by number one ranked McCormick Rankin is 4,179 and the number of hours estimated for the second ranked Stantec is 5115. The low bid price hours from Chisholm Fleming was only 2,231 hours for this project. Staff estimate the level of effort for a project of this magnitude to be over 4,000 hours. Additionally, the low bidder did not provide and/or lacked information surrounding the transportation and signal design component; requirements for fisheries act review and approvals, endangered species act implications, inclusion of lineal park, and access to adjacent properties during and after construction.

FINANCIAL CONSIDERATIONS AND TEMPLATE:

The total cost of this detailed design project inclusive of HST is as follows:

Item	Cost (Including HST)
Budget for Main Street Markham (Hwy 407 to Hwy 7)	\$1,564,100.00
Detailed Design (Acct 083-5350-11068-005)	\$ 582,632.99
Contingency	\$ 87,394.95
Estimated Contract Administration and Inspection (4.6%)	\$ 468,096.00
Total:	\$1,138,123.94
Engineering Department Admin Fee (7.5%)	\$ 85,359.30
Total Project Cost:	\$1,223,483.24
Total Remaining:	\$ 340,616.76*

*Main Street Markham from Highway 407 to Highway 7 (Project 11068) has a budget of \$1,564,100.00 and after the cost of the award the remaining balance of \$340,616.76 will be put towards the construction of the project.

HUMAN RESOURCES CONSIDERATIONS

Not applicable

ALIGNMENT WITH STRATEGIC PRIORITIES:

The reconstruction of Main Street Markham from Highway 407 to Highway 7 provides the necessary infrastructure, including sidewalks and will increase the level of service for the existing and future traffic and pedestrian movement.

The approved Environmental Study Report allows for a lineal park and other enhanced landscaping and a gateway feature to historic Markham Village.

This project is in line with the Town of Markham's strategic focus relating to Growth Management, Transportation/Transit, Safety, the Environment and Municipal Services.

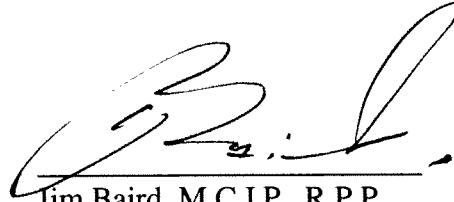
BUSINESS UNITS CONSULTED AND AFFECTED:

The Finance and Legal Departments have been consulted and their comments have been incorporated.

RECOMMENDED BY:

A handwritten signature in black ink, appearing to read 'Alan Brown', written over a horizontal line.

Alan Brown, C.E.T.
Director of Engineering

A handwritten signature in black ink, appearing to read 'Jim Baird', written over a horizontal line.

Jim Baird, M.C.I.P., R.P.P.
Commissioner, Development Services

ATTACHMENTS:

Attachment "A" – Project Location

Attachment "B" – Exhibit 6-1a, Exhibit 6-1b, Exhibit 6-1c