

Report to Civic Works Committee

To: Chair and Members
Civic Works Committee

From: Kelly Scherr, P. Eng., MBA, FEC, Deputy City Manager,
Environment & Infrastructure

Subject: Supply and Delivery of Intersection Detection Systems

Date: May 11, 2021

Recommendation

That on the recommendation of the Deputy City Manager, Environment & Infrastructure, the following actions **BE TAKEN** with respect to the Supply and Delivery of Intersection Detection Systems:

- a) Black & McDonald Limited **BE AWARDED** the contract to supply and deliver intersection detection systems in the amount of \$573,896.20 (excluding HST) in accordance with Section 12.2(a) of the Procurement of Goods and Services Policy;
- b) the financing for this project **BE APPROVED** in accordance with the Sources of Financing Report attached hereto as Appendix A;
- c) the Civic Administration **BE AUTHORIZED** to undertake all the administrative acts that are necessary in connection with this project;
- d) the approvals given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract with the Contractor for the work; and,
- e) the Mayor and City Clerk **BE AUTHORIZED** to execute any contract or other documents, if required, to give effect to these recommendations.

Linkage to the Corporate Strategic Plan

The following report supports the Strategic Plan through the strategic focus area of “Building a Sustainable City”. Enhanced intersection detection supports access for bicycling and improvements to the traffic signal system to reduce congestion.

Analysis

1.0 Background Information

The Traffic Engineering Division is seeking to procure 20 intersection detection systems as a part of the new Transportation Intelligent Mobility Management System (TIMMS). Each complete detection system will be able to detect vehicles on all intersection approaches to aid the new Advanced Traffic Management System (ATMS) with optimizing corridor signal timing for groups of intersections, as well as providing accurate traffic count data.

2.0 Discussion

On January 28, 2021 a Request for Proposal was issued to call for proposals for the procurement of intersection detection systems. Four (4) proponents submitted proposals for evaluation. These proposals were evaluated by a team from the Traffic Engineering Division with the assistance of the Purchasing and Supply Division.

The review and evaluation were scored based on general performance criteria including the company certification, proponent experience, past performance and ability to provide training for equipment installation and operation, specifications, and the cost proposal.

Based on the evaluation criteria and selection process identified in the Request for Proposals, the evaluation committee unanimously concluded that the proposal from Black & McDonald Limited provides the best value to the City. Black & McDonald Limited has proven experience in supplying intersection detection equipment, combined with meeting the general performance specification demonstrated in their suitability for the undertaking.

The Smartmicro intersection detection system proposed by Black & McDonald Limited has been implemented in several other Canadian municipalities including:

- The City of Mississauga (2017);
- The City of Brampton (2017);
- The City of Guelph (2020); and,
- The Town of Collingwood (2019).

Conclusion

Based on the technical evaluation of the proposals, it is recommended that Black & McDonald Limited be awarded the contract for the supply 20 intersection detection systems in the amount of \$573,896.20 (excluding HST) in accordance with Section 12.2(a) of the Procurement of Goods and Services Policy.

Prepared by: Shane Maguire, P. Eng., Division Manager, Traffic Engineering
Submitted by: Doug MacRae, P. Eng., MPA, Director, Transportation & Mobility
Recommended by: Kelly Scherr, P. Eng., MBA, FEC, Deputy City Manager, Environment & Infrastructure

May 3, 2021/

Attach: Appendix A – Source of Finance

cc. Purchasing and Supply
Black & McDonald Limited, 31 Pullman Court, Scarborough, ON, M1X 1E4

Appendix "A"

#21051
 May 11, 2021
 (Appointment of Consultant)

Chair and Members
 Civic Works Committee

RE: Supply and Delivery of Intersection Detection Systems
 (Subledger TF190022)
 Capital Project TS180519 - TIMMS PTIS - Transportation Intelligent Mobility Mngmt System
 Black & McDonald Limited - \$573,896.20 (excluding HST)

Finance and Corporate Services Report on the Sources of Financing:

Finance and Corporate Services confirms that the cost of this purchase can be accommodated within the financing available for it in the Capital Budget, and that, subject to the approval of the Deputy City Manager, Environment and Infrastructure, the detailed source of financing is:

Estimated Expenditures	Approved Budget	Committed To This Date	Submitted To This Submission	Balance for Future Work
Construction	803,328	219,331	583,997	0
Traffic Signals	6,265,272	2,660,491	0	3,604,781
Total Expenditures	\$7,068,600	\$2,879,822	\$583,997	\$3,604,781

Sources of Financing

Debenture Quota (Note 2)	188,520	76,805	15,575	96,140
Public Transit Infrastructure Stream (PTIS) - Federal Funding	2,827,440	1,151,929	233,599	1,441,912
Public Transit Infrastructure Stream (PTIS) - Provincial Funding	2,355,963	959,844	194,646	1,201,473
Drawdown from City Services - Roads Reserve Fund (Development Charges) (Note 1)	1,696,677	691,244	140,177	865,256
Total Financing	\$7,068,600	\$2,879,822	\$583,997	\$3,604,781

Financial Note:

Contract Price	\$573,896
Add: HST @13%	74,606
Total Contract Price Including Taxes	648,502
Less: HST Rebate	-64,506
Net Contract Price	\$583,997

Note 1: Development charges have been utilized in accordance with the underlying legislation and the approved 2019 Development Charges Background Study and the 2021 Development Charges Background Study Update.

Note 2: Note to City Clerk: Administration hereby certifies that the estimated amounts payable in respect of this project does not exceed the annual financial debt and obligation limit for the Municipality from the Ministry of Municipal Affairs in accordance with the provisions of Ontario Regulation 403/02 made under the Municipal Act, and accordingly the City Clerk is hereby requested to prepare and introduce the necessary by-laws.

An authorizing by-law should be drafted to secure debenture financing for project TS180519 - TIMMS PTIS - Transportation Intelligent Mobility Mngmt System for the net amount to be debentured of \$188,520.00

 Jason Davies
 Manager of Financial Planning & Policy
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