

Municipality of Chatham-Kent
Infrastructure and Engineering Services
Engineering Division

To: Mayor and Members of Council

From: Brendan Falkner, P. Eng.
Manager, Engineering

Date: June 8, 2023

Subject: Contract Amendment - Consulting Engineering Services - Drake Road Bridge Rehabilitation over Finn and Cooper Drain

Recommendation

It is recommended that:

1. The contract amendment in the amount of \$31,707.80 (including HST) for Consulting Engineering Services for the Rehabilitation of the Drake Road Bridge over the Finn and Cooper Drain, be awarded to GM Blueplan Engineering Ltd.
2. The General Manager of Infrastructure and Engineering Services be authorized to sign the contract amendment.

Background

The Drake Road Bridge is a slab on girder bridge that was built in 1965, has a north-south orientation, and is located on Drake Road 0.5 km south of 5th Line West.

As legislated under the Public Transportation and Highway Improvement Act, bi-annual inspections have been conducted to continually monitor the condition of the structures and to ensure public safety.

On November 4, 2019, a Direct Assignment was awarded to GM BluePlan Engineering Limited in the amount of \$74,794.70 (including HST), for the rehabilitation design, contract administration, and inspection of the Drake Road Bridge over the Finn and Cooper Drain.

On March 30, 2020, Scope Change #1, in the amount of \$12,407.40 (including HST) was authorized for GM BluePlan Engineering to design and inspect new galvanized steel girders, as part of the rehabilitation project. The existing girders were to be used as part of the rehabilitation but were found to be in worse condition than originally thought, so they had to be replaced.

On March 11, 2021, Scope Change #2, in the amount of \$2,627.25 (including HST) was authorized for GM BluePlan Engineering Limited to design and inspect temporary repairs for a hole that formed in the existing concrete deck.

On January 13, 2021, Scope Change #3, in the amount of \$1,582.00 (including HST) was authorized for GM BluePlan Engineering to have a Species at Risk (SAR) on-site assessment and report completed to satisfy the requirements of the Ministry of Environment Conservation and Parks (MECP).

The Drake Road Bridge over the Finn and Cooper Drain is currently being rehabilitated, with an estimated completion date of July 30, 2023.

Comments

During the rehabilitation of the bridge, there were existing conditions that varied from the original bridge drawings that required additional effort from the consultant. A scope change proposal was submitted on June 2, 2023, for additional consulting services, which included the following:

- After the deck was removed, it was determined that the abutments were at a skew angle that was not consistent with the record drawings from the original bridge construction. Additional surveying, design and contract administration efforts were required to modify the design.
- Modifications to the guiderail system were required due to site specific conditions which resulted in additional consulting fees.

The additional consulting fees recommended in this report reflect the additional work that had to be completed to modify the design, inspect, and manage the construction issues listed above.

Areas of Strategic Focus

This report supports the following areas of strategic focus:

			
Economic Prosperity	Healthy & Safe Community	People & Culture	Environmental Sustainability
1.1			

Consultation

The Purchasing Division was consulted in the preparation of this report.

Communication

Chatham-Kent and the consultant have been in communication with the public and the property owners that were impacted by the project, from the initial design stage to the completion of construction.

Diversity, Equity, Inclusion and Justice (DEIJ)

This report does not have implications related to diversity, equity, inclusion, or justice.

Financial Implications

Table 1: Recommended Costs and Funding Summary

Description	Total
A) Recommended Costs	
Scope Change #4 – June 2, 2023	\$28,606.00
Plus 13% HST	\$3,647.80
Total Cost (Including HST)	\$31,707.80
Less 11.24% HST	(\$3,153.94)
Total Recommended Costs	\$28,553.86
B) Recommended Project Funding	
Bridge Lifecycle Reserve	\$28,553.86
Total Recommended Funding	\$28,553.86
C) Total Project Cost (including HST) – To date	
Original Contract – November 4, 2019	\$74,794.70
Scope Change #1 – March 30, 2020	\$12,407.40
Scope Change #2 – March 11, 2021	\$2,627.25
Scope Change #3 – January 13, 2021	\$1,582.00
Scope Change #4 – Recommended Cost Herein	\$31,707.80
Total Project Costs	\$123,119.15

This contract amendment conforms with the Chatham-Kent Purchasing By-Law section 151, which states that “Council must approve amendments that result in an overrun of the approved budget”. Section 150 of the Purchasing Policy states that the CAO may only approve contract amendments that are “the lesser of 10% of the original Purchase Price or \$250,000”.

This contract amendment will be funded from the Bridge Lifecycle Reserve, which includes funds under the Association of Municipalities of Ontario (AMO) Federal Transfers of Canada Community-Building Fund (CCBF).

Prepared by:

Jason Cikatricis, C.E.T, Engineering Technologist I

Reviewed by:

Brendan Falkner, P.Eng., Manager, Engineering

Mark McFadden, P.Eng., Acting Director, Engineering

Edward Soldo, P.Eng., General Manager, Infrastructure and Engineering Services

Consulted and confirmed the content of the consultation section of the report by:

Jennifer Scherle, Manager, Purchasing and Accounts Payable

Attachments: None