

Municipality of Chatham-Kent
Infrastructure and Engineering Services
Engineering and Transportation Division

To: Mayor and Members of Council

From: Jason Cikatricis, C.E.T.
Engineering Technologist

Date: June 16, 2021

Subject: Contract Amendment for Consulting Engineering fees for the Rehabilitation of the Clachan Road Bridge over the Thames River, Community of Orford

Recommendations

It is recommended that:

1. The contract amendment in the amount of \$52,228.60 (including HST) for additional design, contract administration, and inspection for the rehabilitation of the Clachan Road Bridge over the Thames River, be awarded to G.M BluePlan Engineering Limited. The final terms of the agreement are to be approved by the Director, Legal Services and Director, Engineering.
2. The Mayor and Clerk be authorized to enter into the recommended agreements.

Background

The Clachan Road Bridge (Bothwell Bridge) over the Thames River was built in 1958. This structure has a north-south orientation and is located on Clachan Road 1 km south of Longwoods Road. This slab on I girder bridge carries 2 lanes of predominantly vehicular traffic across the Thames River in 3 continuous spans with a total crossing length of 92.5 m and a maximum clearance of 10 m. The deck has a travel width of 8.64 m and an overall width of 10.28 m.

With an Average Annual Daily Traffic volume (AADT) of 700, the crossing is lightly used, with truck volumes accounting for 25 to 50% of the total traffic. The speed limit at this location is 80 km/hr. The bridge is currently load posted at: _ / 36 / 48 tonnes.

Bi-annual inspections have been conducted by the Municipality of Chatham-Kent (as legislated under the *Public Transportation and Highway Improvement Act*) to continually monitor the condition of the structures and to ensure public safety. All structures form part of the comprehensive 20 year Plan managed by the Engineering and Transportation Division.

On February 10, 2020, Chatham-Kent Council awarded a Request for Proposal (RFP) to G.M BluePlan Engineering Limited for the rehabilitation design, contract administration, and inspection of the Clachan Road Bridge over the Thames River. The rehabilitation will remove the load posting and return it to full traffic loading according to the Canadian Highway Bridge Design Code (CHBDC).

In July of 2020, the existing structural steel coatings of the bridge were tested and confirmed to contain lead. Lead is commonly found in a large number of the coatings in older bridges.

In December of 2020, Chatham-Kent Engineering identified a portion of Clachan Road needing rehabilitation from the Clachan Road Bridge to Longwoods Road. This additional work was requested to be included in the bridge rehabilitation project. Adding this work to the bridge project is the most efficient way of completing this section of road work as the road work and asphalt are already part of the bridge rehabilitation project.

Comments

On June 8, 2021, a scope change proposal was received from G.M. BluePlan Engineering Limited to:

- Complete additional design work, including drawings and specifications, for the additional road rehabilitation and managing of the lead paint.
- Complete contract administration and inspection during the construction phase for the additional road rehabilitation and managing the removal and disposal of the lead paint.
- Costs to complete a contractor pre-qualification process which will allow only pre-qualified bidders to submit a tender price for the project.

Areas of Strategic Focus and Critical Success Factors

The recommendations in this report support the following areas of strategic focus:

- ☐ Economic Prosperity:
Chatham-Kent is an innovative and thriving community with a diversified economy
- ☐ A Healthy and Safe Community: Chatham-Kent is a healthy and safe community with sustainable population growth
- ☐ People and Culture:
Chatham-Kent is recognized as a culturally vibrant, dynamic, and creative community

- ☐ Environmental Sustainability:
Chatham-Kent is a community that is environmentally sustainable and promotes stewardship of our natural resources

The recommendations in this report support the following critical success factors:

- ☐ Financial Sustainability:
The Corporation of the Municipality of Chatham-Kent is financially sustainable
- ☐ Open, Transparent and Effective Governance:
The Corporation of the Municipality of Chatham-Kent is open, transparent and effectively governed with efficient and bold, visionary leadership
- ☐ Has the potential to support all areas of strategic focus & critical success factors
- ☒ Neutral issues (does not support negatively or positively)

Financial Implications

Project fees associated with this contract amendment will be funded as summarized in the following table:

Financial Implications – Contract Amendment - Consulting Engineering Fees for the
Rehabilitation of the Clachan Road Bridge over the Thames River, Community of Orford
Project Costs

Recommended Scope Change Fees ^A (Including HST)	\$ 52,228.60
Less HST Rebate 11.24%	-\$ 5,195.13
Total Current Project Costs	\$ 47,033.47
Total Current Project Funding	\$ 47,033.47

Note A: A contingency in the amount of \$10,000 is accounted for in the Recommended Contract Amendment.

Contingency allowance may or may not be expended and is recommended to address any unforeseen issues that arise during the course of the project and are not covered by the existing contract.

This contract amendment cost represents a 26.4% increase to the original consulting contract.

The total current project costs listed above will be funded from the Bridge Lifecycle Reserve, which includes funds under the Association of Municipalities of Ontario (AMO) Federal Transfers of Federal Gas Tax Funding Agreement.

Prepared by:

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Attachments: None

(RTC:\Infrastructure & Engineering\I&ES\2021\4409 – Contract Amendment for
Consulting Engineering Fees for the rehabilitation of the Clachan Road Bridge over the
Thames River, Community of Orford)