

City of Mississauga Corporate Report



Date: May 27, 2022 To: Chair and Members of General Committee	Originator's files:
From: Geoff Wright, P.Eng, MBA, Commissioner of Transportation and Works	Meeting date: June 15, 2022

Subject

Request to Increase Contract Upset Limit with Morrison Hershfield Limited for the Rehabilitation of five (5) Bridges on Burnhamthorpe Road West over the Credit River, Mullet Creek and Sawmill Valley Pedestrian Trail, Procurement No. PRC002097 (Wards 6 and 8)

Recommendation

That the Chief Procurement Officer or designate be authorized to increase the Contract Upset Limit with Morrison Hershfield Limited (Procurement No. PRC002097) to allow for additional design and contract administration services for the rehabilitation of five (5) bridge structures on Burnhamthorpe Road West by an additional amount of \$306,949.40, to a revised Contract Value of \$1,095,689.60 (excluding taxes).

Executive Summary

- This report is seeking approval to increase the Contract Upset Limit with Morrison Hershfield Ltd. to allow for additional scope in the detailed design and contract administration services to be provided for the rehabilitation of five (5) bridge structures on Burnhamthorpe Road West (Procurement No. PRC002097).
- No increase to the Capital Budget is required.

Background

In early 2020, the City retained Morrison Hershfield through a competitive bid process (Procurement No. PRC002097) for engineering services to undertake three phases of work: (i) detailed condition surveys, (ii) detailed design and, (iii) provisionally, contract administration during construction, related to the structural rehabilitation of the following five (5) bridge structures along Burnhamthorpe Road West:

- Bridge No. 025004 over Sawmill Valley Pedestrian Trail;
- Bridge No. 024001EB over the Credit River;
- Bridge No. 024001WB over the Credit River;
- Bridge No. 024002 EB over Mullet Creek; and
- Bridge No. 024002WB over Mullet Creek.

Increases were made to the Contract for additional non-destructive testing of post-tensioning tendons at the four (4) bridges over the Credit River and Mullet Creek on August 24, 2020 (Change Order #1), which has been completed. Also completed are the detailed condition surveys for all five (5) bridges.

Present Status

The detailed design for the Sawmill Valley Pedestrian Trail Bridge has been completed, with construction expected to start this summer. The detailed design for the four (4) structures over the Credit River and Mullet Creek is ongoing. Construction is anticipated to start in 2023 for the bridges over the Credit River and in 2024 for the bridges over Mullet Creek.

Comments

This report is seeking authority from Council to increase the Contract amount to allow for additional scope of work in the detailed design and contract administration during the construction phases of the project. Based on the findings from the investigations completed during the detailed condition surveys, the following additional work has been identified for the bridges over the Credit River and Mullet Creek:

- Cavity tree survey for endangered bat Species-At-Risk;
- Reconstruction of ballast walls, approach slabs, and manhole chambers;
- Replacement of an undocumented drainage system;
- Extension of storm drain pipes; and
- Replacement of an existing gabion basket retaining wall beside the David J. Culham Trail at the base of the bridges over the Credit River.

The Contract value allocated for contract administration of the Sawmill Valley Trail Bridge rehabilitation assumed one (1) month of construction. This was for bid evaluation purposes and needs to be updated to reflect the anticipated construction duration of seven (7) months.

Once the Credit River and Mullet Creek structures proceed to construction in 2023 and 2024 respectively, the value for Phase 3 (contract administration) may need to be updated again to reflect the anticipated construction duration for these structures.

Financial Impact

The existing and revised Contract amounts are summarized in Table 1, below:

Table 1: Existing and Revised Contract Amounts				
Contract Item	Original Value	Change Order #1	Change Order #2	Revised Upset Limit
Phase 1: Detailed Condition Survey	\$361,482.70			\$361,482.70
Phase 2: Detailed Design	\$258,635.50			\$258,635.50
a) Additional non-destructive testing at bridges over Credit River and Mullet Creek		\$54,956.00		\$54,956.00
b) Additional cavity tree survey at bridges over Credit River and Mullet Creek			\$7,892.20	\$7,892.20
c) Additional detailed design scope at bridges over Credit River and Mullet Creek			\$117,917.20	\$117,917.20
Phase 3: Construction Contract Administration and Inspection for Sawmill Valley Pedestrian Trail Bridge	\$113,666.00		\$81,140.00	\$194,806.00
Contingency			\$100,000.00	\$100,000.00
Totals	\$733,784.20	\$54,956.00	\$306,949.40	\$1,095,689.60

The Capital Budget for this project, PN A20151, has sufficient funds available to accommodate the proposed Items (b) and (c), totalling \$125,809.40.

The Capital Budget for the construction of the Burnhamthorpe Road West bridge over the Sawmill Valley Pedestrian Trail, PN B20151, has sufficient funds available to accommodate the proposed increase to Phase 3 (Contract Administration) of \$81,140.00 and the Contingency amount of \$100,000.00.

No increase to the Capital Budget is required.

Conclusion

An increase to the existing Contract with Morrison Hershfield is required for the additional design and contract administration services that were identified during the detailed condition surveys and detailed design phases of the subject bridges. The Contract with Morrison Hershfield was established competitively. The Morrison Hershfield contract continues to represent good value and is sufficiently resourced to accommodate the additional work.

The requested increase to the Contract is more than 20% of the Original Contract Value and more than \$100,000. Therefore, Council approval of the increase is required in accordance with Policy 03-06-12 - Contract Amendments and Terminations, Section A.3.

Attachments

- Appendix 1: Proposal for Cavity Tree Survey at Credit River and Mullet Creek Bridges
- Appendix 2: Proposals for additional detailed design at Credit River and Mullet Creek Bridges
- Appendix 3: Proposal for Phase 3 Construction Contract Administration at Sawmill Valley Pedestrian Bridge



Geoff Wright, P.Eng, MBA, Commissioner of Transportation and Works

Prepared by: Rebecca Huang, P.Eng., M.Eng., Capital Project Manager