



Staff Report to Council - for Direction

Title: Transfer of Funds From BR19 and Bridge Reserves to Durham Street Bridge Immediate Repairs

From: Adam Stanley, Director of Transportation and Environmental Services

Date: April 4, 2024

Staff Recommendation:

That capital project TS-2023-027 for Bruce Road 19 be deferred to a future year, and budgeted funds including Canada Community Benefit Fund (CCBF) be reallocated to the Durham Street Bridge Project TS-2021-014 in the amount of \$1,850,000.00; and

That the 2024 budget be revised to reflect a transfer from the County Bridge Reserve up to \$1,167,000.00 to pay for the remaining costs of the Durham Street Bridge Immediate Repairs.

Report Summary:

At the March 7th, 2024 Council meeting, Council received Triton Engineering Services' (Triton) final report on the third-party review. The Report recommended that the County procure the services of an Investigate-Design-Build (IDB) Contractor to complete repairs of the bridge's half-joint and accompanied bridge elements (Immediate Bridge Repairs) in 2024. This will ensure that safe passage is maintained over the Bridge, while the Municipal Class Environmental Assessment (MCEA) process continues. The Immediate Bridge Repairs work will be completed as a sole sourced emergency repair, in compliance with the Section 7.1.1 (a) of the County's Purchasing Policy, by Pullman Services Inc. (Pullman) in the amount of \$3,321,096.50. The work is expected to commence in early May 2024 and be completed by early December 2024, while maintaining a single lane of traffic throughout the construction period. Triton's report has indicated that this work alone would extend the bridge's life expectancy by at least 20 years.

A total project budget of \$3,737,000.00 is required to complete the Immediate Bridge Repairs, including the structural redundancy, contingency allowance, contract administration, approvals/permits and remaining MCEA work. Staff are recommending that the Bruce Road 19 project be deferred to a future year and that \$1,850,000.00 in CCBF funds and \$1,167,000.00 in Bridge Reserve funds be transferred to complete the Immediate Bridge Repair work. Staff will continue to work with BM Ross to finalize the on-going MCEA. Once completed, the additional work, not included in the Immediate Bridge Repairs, will be put out for a competitive bid. The additional work could see the life expectancy of the bridge increase to 40 years, if regular maintenance activities are completed throughout that time.

Background:

At the March 7th, 2024 Council meeting, Council received Triton's final report and presentation on the third-party review for the on-going Schedule 'C' Environmental Assessment, of the Durham Street Bridge.

The third-party review provided the following recommendations:

- That bridge rehabilitation be re-introduced into the MCEA process as a viable alternative for evaluation, in addition to the original bridge replacement option.
- That the County procure the services of an Investigate-Design-Build (IDB) Contractor to complete repairs of the bridge's half-joint and accompanied bridge elements (Immediate Bridge Repairs) in 2024 in order to maintain safe passage over the Bridge, while the MCEA process is ongoing.

It was also mentioned in Triton's report that structural redundancy should be incorporated into the immediate repairs of the half-joints.

To address the Immediate Bridge Repairs that are needed, the work will be completed as a sole sourced emergency repair, in compliance with the Section 7.1.1 (a) of the County's Purchasing Policy. Once completed, the three-level weight restrictions, which were implemented on February 16th, 2024, can be removed to restore the full-load level of service on the bridge.

Staff have been working with Triton and Burgess Engineering Inc. (Burgess) to sole source an IDB Contractor that has proven experience and specializes in the unique repairs of the bridge's half-joint and accompanied bridge elements. Upon recommendations from Triton and Burgess, Staff have selected Pullman from Oakville, Ontario, to undertake the Immediate Bridge Repairs. Pullman are supported by Structural Technologies, an international firm, who form Pullman's product and engineering division.

For Council's information, attached to this report are:

- Pullman's March 13th, 2024 proposal;
- Structural Technologies and Pullman's company profile; And,
- Structural Technologies and Pullman's West Seattle Case Study.

As outlined in their proposal, it is expected that Pullman will complete the Immediate Bridge Repairs work while maintaining one lane of traffic on the bridge. They expect that the total time required to complete the work, including the provisional structural redundancy, is about 26 weeks. It is expected that Pullman will mobilize their forces to the site in early May, meaning that the Immediate Bridge Repairs should be completed sometime in late November or early December.

To ensure that the Immediate Bridge Repair commences on time, BM Ross will advance the necessary approvals and permits for the 2024 work. Triton will complete the Contract Administration and inspection for the Contract.

Simultaneous to the Immediate Bridge Repairs Staff will continue to work with BM Ross to finalize the on-going MCEA, including adding the option of the remaining bridge rehabilitation as the preferred alternative. Once the MCEA is completed, the additional work will be put out for a competitive bid, as a request for proposal IDB Contract.

Financial/Staffing/Legal/IT Considerations:

Staffing and IT Considerations

There are no Staffing or IT Considerations.

Legal Considerations

The Durham Street Bridge provides connectivity over the Saugeen River to residents and visitors that utilize Bruce Road 4. The Municipal Act requires that the Municipality which has jurisdiction over a bridge forming a highway keep the bridge in a state of repair that is reasonable in the circumstances.

Financial Considerations

The total costs for the Immediate Bridge Repairs, including the structural redundancy, contingency allowance, contract administration, approvals/permits and remaining MCEA work are outlined below.

IMMEDIATE BRIDGE REPAIRS - TOTAL BUDGET REQUIRED

Company	Description	Budgetary Cost
Pullman Services Inc.	Immediate Repairs & Structural Redundancy	\$3,321,096.50
BM Ross & Associates	Approvals & Permits	\$11,500.00
BM Ross & Associates	Finalization of MCEA	\$20,000.00
Triton Engineering Services	Contract Administration & Inspection	\$147,325.00
Sub-total		\$3,499,921.50
Non-Recoverable HST @1.76%		\$61,598.62
Contingency Allowance 5%		\$175,000.00
Total Budget Required		\$3,736,520.12

The approved 2024 budget for the Durham Street Bridge Project (TS-2021-014) is \$720,000.00. To fund the additional \$3,017,000.00 needed for the Immediate Bridge Repairs work, it is recommended to defer the Bruce Road 19 Project (TS-2023-027) to a future year and transfer the allocated \$1,850,000 of CCBF funding from that project to the Durham Street Bridge project. It is recommended to source the remaining \$1,167,000 needed from the County’s Bridge Reserve which currently has a balance of \$2,266,430.58. The table below summarizes the recommended funding sources for the Immediate Bridge Repairs.

RECOMMENDED FUNDING SOURCES - IMMEDIATE BRIDGE REPAIRS

Project Funding Source	2024 Budget	Recommended Transfer	Recommended Budget
Durham Street Bridge Project (TS-2021-014)	\$720,000	\$1,850,000.00 and \$1,167,000.00	\$3,737,000.00
Bruce Road 19 Project (TS-2023-027)	\$1,900,000	(\$1,850,000.00) CCBF Portion	\$50,000.00
Reserve Funding Source	Current Balance	Recommended Transfer	Proposed Balance
Bruce County Bridge Reserves	\$2,266,430.58	(\$1,167,000.00)	\$1,099,430.58

Interdepartmental Consultation:

The Office of the CAO and Corporate Services were consulted on this report.

Link to Strategic Goals and Objectives:

Community and Partnerships - Enhance and grow partnerships

Growth and Innovation - Strengthen County's use of technology and innovative initiatives

Link to Departmental Plan Goals and Objectives, if any:

Advancement - Goal No. 5 from the Transportation & Environmental Services Departmental 2024 Business Plan - Re-enforcement of the Durham Street Bridge.

Deferred - Goal No. 6 from the Transportation & Environmental Services Departmental 2024 Business Plan - Bruce Road 19 Rehabilitation

Report Author:

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Approved for Submission:

Sean Morphy, Deputy Chief Administrative Officer