

Request for Quote (RFQ) Dean Lake Bridge Rehabilitation Feasibility Study

The Municipality of Huron Shores is seeking quotes from qualified engineering firms to conduct a feasibility study for the rehabilitation of the Dean Lake Bridge, located in Iron Bridge, Ontario. This study will inform the Municipality's decisions regarding necessary repairs and potential upgrades to ensure the bridge meets current safety standards and remains a valuable historic structure within the community.

1. Project Overview:

The Dean Lake Bridge, constructed in 1908, is a significant historic structure requiring a thorough assessment to determine feasible rehabilitation options. The study will include an evaluation of the current truss configuration, potential decking options, and necessary upgrades to meet the Canadian Highway Bridge Design Code (CHBDC) loadings for the CL-625-ON truck.

2. Scope of Work:

The selected engineering firm will be expected to perform the following tasks:

- **Truss and Decking Analysis:** Review and analyze different permissible decking types and weights (wood, steel, and concrete) for their impact on the trusses, including dead and live loadings compared to the original design loadings.
- **Report Preparation:** Compile findings into a detailed report, including high-level cost estimates for each decking option, sketches outlining deck styles, and areas needing truss upgrades.
 - **Estimated Lifespan:** For each proposed upgrade, provide an estimate of the increased lifespan of the bridge as a result of the upgrade.
- **Cost Estimating:** Include an allowance for consultation with a contractor regarding hoisting, barges, and any construction limitations that could affect the project.

3. Deliverables:

- Electronic copies of all drawings and reports.
- Sealed final drawings by a professional engineer licensed in Ontario.
- Detailed cost estimates and estimated lifespan for proposed rehabilitation options.

4. Schedule:

The feasibility study is to be completed by December, 2024, to allow the Municipality to make informed decisions in advance of the 2025 Municipal Budget deliberations.



Municipality of Huron Shores

7 Bridge Street, PO Box 460

Iron Bridge, ON P0R 1H0

5. Exclusions: The proposal should exclude the following services:

- Onsite environmental services/sampling program
- Legal surveys
- Geotechnical investigation (borehole program)
- Detailed rehabilitation design drawings
- Material lists or detailed construction pricing

6. Submission Requirements:

Interested firms are requested to submit their proposals by August 23, 2024, including:

- A detailed work plan and methodology
- Similar project experience
- A breakdown of fees and costs
- Proposed project schedule

7. Contact Information:

For any inquiries or further information, please contact:

Mr. Kevin Ravnaas, Public Works Superintendent

Municipality of Huron Shores

Phone: 705-843-2033

Cell: 705-542-6053

Email: publicworks@huronshores.ca

8. Reference Documents:

The Municipality of Huron Shores will provide access to several reports and assessments previously completed on the Dean Lake Bridge, including:

- Dean Lake Load Evaluation and Condition Assessment Report
- Dean Lake Bridge Steel Repair and Concrete Coring Report; and
- 2023 Ontario Structure Inspection Manual (OSIM) Report for the Dean Lake Bridge.

These documents contain crucial information on the current condition, historical data, and prior evaluations of the bridge, which should be considered in the feasibility study.

We appreciate your interest in this project and look forward to receiving your proposal.

Sincerely,

Natashia Roberts

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CAO/Clerk

Municipality of Huron Shores