



PORT COLBORNE

Subject: H.H. Knoll Lakeview Park Pedestrian Bridge

To: Council

From: Public Works Department

Report Number: 2023-47

Meeting Date: March 14, 2023

Recommendation:

That Public Works Department Report 2023-47 be received; and

That the Director of Public Works be authorized to fund the H.H. Knoll Lakeview Park Pedestrian Bridge repair from the infrastructure reserve for a design cost of \$14,930.00, and estimated construction cost of \$75,000.00.

Purpose:

The purpose of this report is to provide Council with an update on the closure of the H.H. Knoll pedestrian bridge and to obtain approval for staff to progress forward with the required design and maintenance work for a total estimated cost of \$89,930.00 to be funded from infrastructure reserve.

Background:

The City of Port Colborne owns and maintains the H.H. Knoll pedestrian bridge that spans 76 meters between the Sugarloaf Harbour Marina and H.H. Knoll Lakeview Park parking lots. The structure is a truss style bridge and is inspected regularly in accordance with current legislated provincial requirements.

The most recent inspection report was completed on March 25, 2022 by GHD Group which indicated that the structure is in overall good condition however recommended that the abutment bearings needed replacement within the next 1 to 5 years. The estimated cost to complete the work at that time was \$58,000.

In response to a service request, City staff completed a site visit at the westerly end of the bridge on February 16, 2023. Upon initial investigation it was discovered that the

bolts anchoring the bridge to the abutment had failed. To ensure public safety City staff decided to immediately close the bridge to pedestrians for precautionary measures until staff were able to have the structure inspected by a qualified engineer.

Discussion:

City staff contacted GHD Group to complete a site visit to investigate the failing bolts and provide professional advice regarding the current condition and next steps. Upon completion of the site visit that took place on February 22, 2023, GHD Group engineers confirmed that the bridge was not in any threat to collapse or further deteriorate in the immediate future however recommended the bridge remain closed.

A work scope of the required maintenance completed by GHD Group indicated that the bearing areas of the bridge at both abutments needed repair and recommended the installation of new bearing pads/plates, new hold down anchors, expansion joint seal replacements and sliding cover plates at each end.

The estimated cost to complete the design of the bearing abutment repairs is \$14,930.00 excluding HST which is already underway to ensure a timely reopening. The cost to complete the construction of the required works is estimated by GHD Group staff to be between \$50,000.00 and \$75,000.00. The duration to complete the work is estimated at 3 working days and staff anticipate that the work can be completed before the upcoming May long weekend depending on contractor availability.

Internal Consultations:

Collaboration between the City's Communications, Sugarloaf Harbour Marina, and Public Works staff is ongoing to ensure impacted staff and users are kept up to date of the status of the bridge closure and will continue until required works are completed.

Financial Implications:

The estimated cost to complete the design work is \$14,930.00 excluding HST. Construction costs have yet to be confirmed but are estimated between \$50,000.00 and \$75,000.00.

The total cost of the project will be funded from the infrastructure reserve.

Public Engagement:

A Public Notice has been posted on the City's website and will continue to be updated to ensure users and the public are kept informed on the status of the bridge closure and anticipated schedule of the construction work.

Strategic Plan Alignment:

The initiative contained within this report supports the following pillar of the strategic plan:

- City-Wide Investments in Infrastructure and Recreational/Cultural Spaces
-

Conclusion:

After review of the current conditions of the pedestrian bridge spanning between the Sugarloaf Harbour Marina and H.H. Knoll Lakeview Park parking lots, staff recommends that the bridge remain closed until such time that the required maintenance on the bridge bearing abutments are completed.

Respectfully submitted,

Joe Colasurdo
Manager of Infrastructure
905-835-2900 Ext. 234
Joe.Colasurdo@portcolborne.ca

Report Approval:

All reports reviewed and approved by the Department Director and also the City Treasurer when relevant. Final review and approval by the Chief Administrative Officer.