

Subject: Update on the Sulphur Springs Drive Emergency Road Rehabilitation Project

Recommendation:

BE IT RESOLVED THAT Council receive Report #2022-0276 Update on the Sulphur Springs Drive Emergency Road Rehabilitation Project, for information.

Background:

In October 2022, Public Works Operations staff identified a failure on Sulphur Springs Drive, located approximately 300 m south of Roland Road. Operations staff continued monitoring the roadway's condition and failure over several weeks. The failure resulted in erosion of the side slope and loss of the east shoulder of the roadway (see attached Appendix A for photographs of the failure dated October 24th). Based on the amount of erosion that had taken place, it was determined that the roadway in its [then] present condition was unsafe for vehicular and pedestrian traffic and was ordered closed on October 8th by the Director of Public Works in accordance with the Town's Delegation of Certain Powers and Duties by-law (By-Law Number 4307 (2021) and amending by-law 4387 (2021). The road closure occurred between Roland Road and approximately 500 m south of Roland Road. Local access to properties within the road closure was maintained and emergency services were notified.

On November 7th, staff prepared a memo to Council informing members of the closure and the intended action by staff. This report is to provide an update to Council on the status of the repair and the cost of completing the work.

Analysis:

Staff worked with Duffin Contracting to develop an emergency repair strategy to repair the roadway and reopen it to traffic as safely and quickly as possible. Duffin Contracting was in the final stages of completing the Sulphur Springs Drive Rehabilitation project at Site 2 and was prepared to mobilize quickly to this site.

The proposed repair included the installation of a ditch inlet catchbasin on the west side of the roadway. It included the installation of a new 18-inch culvert, geo-grid reinforced roadway embankment, and a reinforced east bank supporting the road.

The estimated cost to complete the roadway restoration was \$82,000 (plus applicable taxes).

The roadway was closed to traffic on October 28th with the restoration works commencing immediately. The work was completed on November 17th and reopened to traffic. (See Appendix A for photographs showing construction progress).

Financial Considerations:

The estimate provided by the staff at the beginning of the project was \$82,000 (plus applicable taxes). The work proceeded as planned and on schedule which resulted in an actual project cost of \$82,000 (plus applicable taxes).

The roadway has been reopened to both vehicular and pedestrian traffic. However, due to the fact that there were trees removed as part of the construction (forming a natural barrier between the roadway and the adjacent slope), staff will investigate the possibility of adding a guide rail system as an added roadside safety measure. If a guide rail is required it will add an additional \$5,800 (plus applicable taxes to the project.

Alternatives Reviewed:

There were no alternatives reviewed in the preparation of this report as it is for information purposes only.

Strategic Plan Relationship: Risk Management

Having a safe and reliable transportation network is fundamental to managing and mitigating risk for the Town. This emergency repair project was necessary for the safety of pedestrian and vehicular traffic. In addition, repairing this section of the roadway was critical to ensuring access for emergency and service vehicles and maintaining suitable emergency response times for the residents on Sulphur Springs Drive.

Consultation:

Other Pertinent Reports/Attachments:

Appendix A – Project Photographs Memo to Council dated November 7th, 2022

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