



TOWNSHIP OF EDWARDSBURGH CARDINAL ACTION ITEM

Committee: Public Works, Environmental Services and Facilities

Date: July 18, 2022

Department: Operations

Topic: Armstrong Road Surface Remediation

Purpose: To provide options to Council in regard to Armstrong Road surface remediation.

Background: In 2017 Armstrong Road received surface treatment. The treatment method did not provide the expected results and the surface has deteriorated to the point that it requires remediation throughout its length. The road has been patched multiple times, (both hot mix and cold patch), with limited acceptable results. Residents along the roadway have expressed concerns of the surface condition and staff are having difficulty maintaining the road in both winter and summer maintenance operations.

Options:

- 1) Pulverize the road surface to return the surface to gravel. This is the most economic option and will allow for the surface to be maintained with the Township's graders. While this option is the most economical, it may lead to concerns typically associated with gravel roads such as dust and soiling of vehicles. Estimated cost is \$0.65 to \$0.95 per square meter or approximately \$11,600.00 to \$17,100.00, (2400m x 7.5m x cost / sqm) plus HST.
- 2) Cold-in-place resurfacing is a finer form of pulverization that potentially will provide additional base for a future road surface. The asphalt surface is pulverized to a fine consistency, mixed with water and a binding agent, reapplied to the road and compacted. A surface layer of asphalt is then applied to complete the treatment. A high-level cost estimated is approximately \$162,000.00 plus the cost of asphalt at \$140.00 to \$200.00/ton plus HST.
- 3) Full depth reconstruction is the most desirable option although by far the most expensive. A high-level cost estimated is approximately \$720,000.00, (2.4 km x \$300,000.00/km rural), plus HST.

Policy Implications: By-law 2015-57 establishes policies with respect to the procurement of goods and services and requires all expenditures to be within the current approved budget or within approved estimates, otherwise, prior approval of Council is required.

Financial Considerations: Remediation of Armstrong Road was not included in the 2022 Budget. Option 1 is likely the only viable solution that could be completed in 2022. Staff will attempt to cover some of the added expense through the current operational budget, however most of the cost will need to be funded through the Public Works Reserve. The balance in the Public Works Reserve, as of June 30,2022, is \$876,622,99.

Recommendation: That Committee recommends that Council direct staff to undertake Option 1 - Pulverize Armstrong Road surface back to gravel at an upset limit of \$17,100.00 and fund the work through the Public Works Reserve.



Director of Operations



Manager of Public Works



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