

Regal Way Storm System Remediation Project**Report Purpose**

To conduct the Regal Way Storm System Remediation project.

Recommendation

THAT the Regal Way Storm System Remediation project in the amount of \$150,000, to be funded from the Utilities Infrastructure Lifecycle, Maintenance and Replacement Reserve (11.4440), be approved.

Council History

December 8, 2015 – Council approved the 2016 Operating and Capital Budgets.

Strategic Plan Priority Areas

Economy: Strategically manage, invest and plan for sustainable municipal infrastructure.

Governance: n/a

Social: n/a

Culture: n/a

Environment: n/a

Other Impacts

Policy: FIN-001-024: Municipal Reserves

Legislative/Legal: n/a

Interdepartmental: Financial Services, Utilities

Summary

Potential for storm main freezing in winter months poses a risk for ten homes on Regal Way. These homes are directly connected to the storm system versus having a sump pump design which allows for surface discharge in the event of freezing.

A flooding event in March of 2014 prompted an investigation of the storm system to determine the issue. The investigation revealed that site specific conditions such as a shallow storm manhole and constant flow from sumps are likely the cause. This prompted Utilities to employ MPE Engineering to conduct an assessment of Regal Way and to recommend potential actions that would mitigate flooding risk to the affected homes.

MPE Engineering proposed the following mitigating solutions:

1. Monitor and remove any ice buildup in the storm main during winter months.
2. Retrofit the ten homes to include backflow preventers to ensure water from the mainline is not capable of entering basements.
3. Install sump pumps in three homes to pump water to the surface which would ensure water from the storm main has a place to discharge if the mainline becomes blocked or surcharges again.

Utilities propose to directly undertake this work on behalf of the resident through the use of a third party contractor. The rationale for this is we are doing a direct tie to municipal infrastructure and we are correcting a connection which was allowed at the time of construction but is less than ideal from a performance risk perspective. The pre-quotation estimated cost is \$150,000.