

Report to Council



Date: July 27, 2020
To: Council
From: City Manager
Subject: Budget Adjustment – Cast and Ductile Iron Watermain Replacement
Department: Infrastructure Engineering

Recommendation:

THAT Council receives for information, the report from Infrastructure Engineering dated July 27, 2020 regarding the project creation and budget adjustments required to replace approximately 850 m of poor condition cast and ductile iron watermain as part of the Ethel Street Active Transportation Corridor – Phase 3C;

AND THAT the 2020 Financial Plan be amended to reflect the transfer of \$390,000 from the carry over budget for the Ethel St Watermain Replacement, Sutherland – Springfield (329001W), as part of the Ethel Street Active Transportation Corridor – Phase 4 to the Ethel Phase 3C ATC Water Main Replacement project;

AND THAT the 2020 Financial Plan be amended to reflect the cancellation and transfer of \$195,880 from the Chute Lake Rd Pressure Reducing Valve Upgrade (3387) to the Ethel Phase 3C ATC Water Main Replacement project;

AND FURTHER THAT the 2020 Financial Plan be amended to include an additional \$415,000 from the Water Utility for the Ethel Phase 3C ATC Water Main Replacement project.

Purpose:

To create a water utility project to replace approximately 850 m of poor condition cast and ductile iron watermain as part of the Ethel Street Active Transportation Corridor – Phase 3C.

Background:

The existing 250mm watermain along the Ethel Street Active Transportation Corridor – Phase 3C is 1975 vintage, making it only 45 years old. Initial project set up did not identify a Water Utility component for this section of the Ethel ATC project since the assets were expected to have another 35 years remaining service life.

Further field investigation during the Ethel ATC Project section just north (Cadder Ave to Rose Ave) identified extensive pitting and corrosion throughout much of the existing ductile iron watermain, triggering a full replacement of the watermain along that section. Further testing identified the

presence of “hot” soils (promoting corrosion) and overall poor conditions leading to the existing watermain deteriorating at almost twice the design rate.

Further exposures of sections of watermain along the current Ethel ATC project confirmed the same poor condition along this extent of main.

A Class C cost estimate provided by AllNorth Engineering Consultants identifies a budget requirement of \$1.0 Million to replace 850 m of cast iron and ductile iron watermain, and their respective appurtenances, along the Ethel Street Active Transportation Corridor – Phase 3C (Rose Ave to Raymer Ave.).

The work requires realignment of funds from existing project budgets as well as an additional request from the Water Utility to meet the commitments identified above:

Ethel St Watermain Replacement, Sutherland – Springfield (329001W): (\$390,000)

High tender prices in 2018 led staff to ask for additional funds to ensure completion of the above-mentioned project. Efficiencies found and implemented throughout the project, along with lower than expected bids allowed for a project completion delivered considerably under budget. Staff request that the remaining available budget be transferred to the Ethel ATC – 3C Water Main Replacement project.

Chute Lake Rd Pressure Reducing Valve Upgrade (3387): (\$195,880)

The Chute Lake Rd Pressure Reducing Valve Upgrade project is recommended to be cancelled for 2020 and deferred to a later date in the 10-year Capital Plan. This project is being re-scoped to coordinate with Transportation for the future Chute Lake Rd and Frost Road Intersection. Staff recommend the full \$195,880 available budget to be transferred to the Ethel ATC – 3C Water Main Replacement project.

The remaining \$415,000 is requested from the Water Utility.

Internal Circulation:

Department Manager, Infrastructure Administration
Divisional Director, Infrastructure
Financial Planning Manager

Considerations not applicable to this report:

Legal/Statutory Authority:

Legal/Statutory Procedural Requirements:

Financial/Budgetary Considerations:

Existing Policy:

Personnel Implications:

External Agency/Public Comments:

Communications Comments:

Alternate Recommendation:

Submitted by:

Rod MacLean, Manager Utilities Planning

Approved for inclusion:



A. Newcombe, Divisional Director, Infrastructure

cc: Divisional Director, Infrastructure
Director, Financial Services
Financial Planning Manager
Department Manager, Transportation Planning
Department Manager, Utilities Planning
Department Manager, Infrastructure Administration