

COMMITTEE REPORT

TO: CHAIR AND MEMBERS FINANCIAL MANAGEMENT COMMITTEE **DATE:** 2019 June 12

FROM: DIRECTOR ENGINEERING **FILE:** 32000-05

SUBJECT: 2019 JUNE ENGINEERING CAPITAL INFRASTRUCTURE FUNDING REQUEST

PURPOSE: To request the use of Water and Sanitary Reserves and to request a Capital Reserve Fund Bylaw to finance 2019 - 2021 Engineering capital infrastructure projects.

RECOMMENDATION:

1. **THAT** the Financial Management Committee recommend Council authorize the City Solicitor to bring forward a Capital Reserves Fund Bylaw in the amount of \$9,097,100 and the use of Waterworks Utility Capital Reserves in the amount of \$400,000 to finance Engineering capital infrastructure improvement projects, as outlined in this report..

REPORT**INTRODUCTION**

In order to proceed with the award of contracts for design, contract administration and construction, funding approval is requested for the projects listed below. Sufficient Capital Reserves are available to fund the capital projects outlined in this report.

POLICY SECTION

The following projects are aligned with the City of Burnaby's Corporate Strategic Plan by supporting the following goals and sub-goals of the Plan.

Goal

- A Safe Community
 - Transportation safety –
Make City streets, pathways, trails and sidewalks safer.

- A Dynamic Community
 - City Facilities and infrastructure –
Build and maintain infrastructure that meets the needs of our growing community.
- A Thriving Organization
 - Reliable services, technology and information –
Protect the integrity and security of City information, services and assets.

1.0 Infrastructure

1.1 Culvert Rehabilitation Program- ELA.3183 Estimated \$425,000

This project was not part of the approved 2019-2023 Annual Capital Plan but has been deemed a priority due to the condition of the culverts. Accordingly, the capital plan associated with the Metrotown Station Passarelle (\$350,000) and Meadow Drainage Pump Station (\$75,000) has been reallocated to this new project.

The City has completed an inventory review and general visual inspections of culverts throughout the City. Sixteen culverts were prioritized for rehabilitation or replacement within the one to five year horizon due to the results from the general visual inspections.

This project will provide design and construction services of these culverts. Funding is being requested to start the design component of this project.

1.2 Wiggins Street Environmental Capping-ELA.3186 Estimated \$1,000,000

This project was not part of the approved 2019-2023 Annual Capital Plan but has been deemed a priority due to an order by the Ministry of Environment to cap the contaminated area along Wiggins Street by 2019 November 30. Accordingly, the capital plan associated with the delayed Broadway Improvement project has been reallocated to this new project.

During development coordinated construction (with Oxford Properties) of the dyke at the end of Wiggins Street, contamination was found on an approximate 10,000 sq.m. section of Wiggins Street road right of way. Contamination consisted mainly of waste asphalt shingles and some steel drums filled with tar. Environmental Services conducted a study and informed the Ministry of Environment. At the conclusion of the study, the Ministry ordered the City to cap the contaminated area with at least 1 meter of appropriate fill. The City must complete the capping and provide the Ministry of Environment with documentation of the completed cap by 2019 November 30.

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The project includes deployment of heavy rip-rap along an area of approximately 100 sq.m. of the shoreline to help prevent erosion of the contaminated materials into the river. This deployment of rip-rap was not required by the Ministry, but is deemed professionally prudent given circumstances.

The City Solicitor and external legal counsel are engaged in a plan to recover project costs from the previous owner of the adjacent lands who is the likely source of the contaminated materials.

1.3 Local Area Services Program – Roads ECA.3141 Estimated \$1,247,100

This project was created following the successful LASP petitions for two streets. They are Thunderbird Crescent from Production Way to Production Way; and MacPherson Avenue from Rumble Street to Neville Street. The works included were road paving, curb and gutter, sidewalks, boulevards and street trees.

During the detailed design phase, the scope of the project was expanded to include rehabilitation of the road pavement for both MacPherson Street and Thunderbird Crescent and is being funded as a City project.

Interim funding was secured through Contingency to allow award of the contract. This request is for the 2019 portion of the project to refund the interim financing. Construction on this project overall is anticipated to be completed in 2019.

1.4 Marine Drive- EMC.3040 Estimated \$500,000

This project is for Marine Drive from Boundary Road to Patterson Avenue to bring the street to the urban street standard. This will include curb and gutter, sidewalk on both sides of the road, bus route pavement, new bus stops, intersection upgrades, new streetlights, boulevard and street trees as required.

Early funding is being requested for the 2020 scope of work which involves conceptual design including identifying and confirming project requirements from topographic survey, development of geometrics (by consultant) and cost estimates for construction.

1.5 Deer Lake Paving- EMC.3094 Estimated \$2,125,000

This project involves paving and street improvements on Deer Lake Avenue from Deer Lake Parkway to the east end close to Kensington Avenue (near Shadbolt). This project involves paving, and general street corridor improvements including conversion to parallel parking, a multi-use path on along the south side of the street, a sidewalk along the north side of the street, raised crosswalks, and new bus bays. The goal of this project is to improve traffic operations, accessibility and safety for all users.

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Early funding is being requested for the 2020 portion of the capital plan for the construction phase of the project.

1.6 Gilmore Diversion Trail - EMB.3164

Estimated \$3,800,000

Project Mask	2020	2021	Total
EMB.3164 MRN	3,600,000	200,000	\$3,800,000
Other			

Completion of the pedestrian and cycle connection between the existing urban trail on the west side of Gilmore Avenue at Still Creek Drive to the urban trail on the west side of Gilmore Diversion at Dominion Street. It is proposed that a 580m long section of urban trail be constructed across the Gilmore Overpass, including necessary upgrades to the pedestrian and cycling facilities and transit stops. Related urban trail upgrades north of Still Creek Avenue included in the original 2015 design will be reviewed and included in the proposed project. Civic communication conduits will be installed as part of this project.

The project will be re-introduced to the Ministry of Transportation, Translink, CMBC, ICBC and other key players in order to obtain the necessary permits, approvals and possible funding. Land and ROW acquisition will be required in two locations along the project to facilitate a relocated bus shelter and new sidewalk.

Funding for the design phase of the project was raised previously; early funding is being requested for the 2020 and 2021 portion of the capital plan for the construction phase of the project.

1.7 Eastbrook Pump Station - EJA.3165

Estimated \$400,000

This project consists of upgrades to the existing Eastbrook pump station to accommodate changes in the existing common forcemain (shared by Eastbrook, Beta, Delta and Douglas pump stations) resulting from increased system demands from growth and re-development in the Central Valley area. Upgrades to the existing lift station are anticipated to include pump impellers, motors, check valves, variable frequency drives and a control kiosk so that the existing Eastbrook station can continue to meet anticipated total dynamic head conditions in the common forcemain.

Funding for the design phase of the project was raised previously; early funding is being requested for the 2020 portion of the capital plan for the construction phase of the project.

These expenditures are included in the 2019 – 2023 Financial Plan and sufficient Capital Reserve and Reserve Funds are available to finance the capital projects outlined in this report.

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RECOMMENDATION

It is recommended that the Financial Management Committee recommend Council authorize the City Solicitor to bring forward a Capital Reserve Fund Bylaw in the amount of \$9,097,100, and the use of Waterworks Utility Capital Reserve in the amount of \$400,000 to finance Engineering capital infrastructure improvement projects, as outlined in this report



for

Leon A. Gous, P.Eng., MBA
DIRECTOR ENGINEERING

RS/ac

Copied to: City Manager
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