

COMMITTEE REPORT

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**TO:** CHAIR AND MEMBERS FINANCIAL MANAGEMENT COMMITTEE **DATE:** 2021 February 03

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

**SUBJECT:** 2021 FEBRUARY ENGINEERING CAPITAL TRANSPORTATION BYLAW FUNDING REQUEST

**PURPOSE:** To request a Capital Reserve Fund Bylaw to finance 2021 - 2022 Engineering capital transportation projects.

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**RECOMMENDATION:**

1. **THAT** the Financial Management Committee recommend Council authorize the City Solicitor to bring forward a Capital Reserve Fund Bylaw in the amount of \$3,320,000 to finance Engineering capital transportation improvement projects, as outlined in this report.

**REPORT****INTRODUCTION**

The 2021 - 2025 Provisional Financial Plan will provide funding for various multi-year capital improvement projects. Upon approval of this funding request by Council, these expenditures will be included in the 2021 - 2025 Provisional Financial Plan (Engineering Section). In order to proceed with the award of contracts for design, contract administration and construction, funding approval is requested for the projects listed below. This report is to seek Council approval of fund allocation for Engineering projects in advance of Council adoption of the 2021 - 2025 Provisional Financial Plan.

**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.

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- 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. Transportation**

### **1.0 Signal Hardware Renewal - LRN      EMF.0097      Estimated \$350,000**

This program funds the ongoing replacement of aging hardware at signalized intersections along the Local Road Network (LRN). This program will replace cameras, audible pedestrian signals, rusted poles, damaged underground conduits and cabling and radio communication equipment.

### **1.1 2021 Parking Meter Equipment      EMG.0012      Estimated \$175,000**

This 2021 program funds new or replacement parking meter equipment as required. New installation would generally occur in high demand locations. Replacements would occur where meters are damaged or stolen. Locations are determined based on the age of the equipment, where problems were identified during regular maintenance, or when damaged by an errant vehicle. Equipment is purchased and installed by City staff.

### **1.2 Signal Hardware Renewal - MRN      EMB.0011      Estimated \$400,000**

This program funds the ongoing replacement of aging hardware at signalized intersections along the Major Road Network (MRN). This program will replace cameras, audible pedestrian signals, rusted poles, damaged underground conduits and cabling, and radio communication equipment. Funding contributions are expected from Translink.

### **1.3 2021 Traffic Cabinet Replacement      EMF.0087      Estimated \$350,000**

This program funds the replacement of old traffic signal control cabinets and their internal components in order to maintain ongoing and reliable operations at all times. Locations are determined based on age and where arising problems have been identified during regular maintenance. Aging traffic signal control equipment and cabinets are prone to faults which can endanger the public, result in more frequent unscheduled trouble calls, and older hardware is often out of warranty and less compatible with current systems.

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Based on approximately 250 locations and a 15 year operational lifespan, the City is planning on replacing 16 traffic signal cabinets per year. Upgrading traffic signal cabinets will provide safe, reliable and efficient operation for roadway users, reduce trouble calls and meet current City operational standards.

**1.4 Major Traffic Management Projects EMF.3212 Estimated \$1,945,000**

This program provides enhancements in traffic safety and/or operations in response to complaints, road safety studies and partnership initiatives. Proposals for 2021 include: a new signal at Imperial Street and Gilley Avenue, traffic calming along Elwell Street, and intersections modifications at Imperial Street/Royal Oak Avenue and at Beaverbrook Drive and Beaverbrook Crescent. Funding contributions are expected from ICBC.

<b>Project Mask</b>	<b><u>2021</u></b>	<b><u>2022</u></b>	<b><u>Total</u></b>
EMF.3212	\$745,000	\$1,200,000	\$1,945,000

**1.5 Recessed Pavement Marking EMF.3222 Estimated \$100,000**

This project is to initiate retro-fitting recently paved arterial roads with recessed Raised Pavement Markers (RPM). Over years, the City has maintained a program of surface mounting RPMs to enhance the visibility of laneway markings during poor weather conditions. This program has been well received by ICBC and is a favorite of many in the motoring public. However, surface mounting installations are susceptible to damage by snow plowing equipment and complete replacement is often required following the conclusion of winter plowing operations. Staff are recommending that RPMs in certain locations be recessed into the pavement as an alternative method to enhance durability and withstand snow plowing damage. The anticipated upfront costs for RPM installations will significantly be recaptured due to its longevity and minimal maintenance needs. Recessed Pavement Markers are to be installed as a pilot project along a few recently paved roads including Barnet Highway and Lougheed Highway.

These expenditures will be included in the 2021 - 2025 Provisional Financial Plan and sufficient Capital Reserve Funds are available to finance the capital transportation improvement 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 \$3,320,000 to finance Engineering capital transportation improvement projects, as outlined in this report.



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

AA/RS/ac

Copied to: City Manager  
Director Finance  
City Solicitor  
Assistant Director, Transportation