

FINANCIAL MANAGEMENT COMMITTEE

*HIS WORSHIP, THE MAYOR
AND COUNCILLORS*

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

RECOMMENDATION:

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

REPORT

The Financial Management Committee, at its meeting held on 2021 February 17, received and adopted the attached report seeking Council authorization for the use of a Capital Reserve Fund Bylaw to finance 2021-2022 Engineering capital transportation projects. The Bylaw appears elsewhere on the Council agenda.

Respectfully submitted,

Mayor M. Hurley
Chair

Councillor S. Dhaliwal
Vice Chair

Copied to:	City Manager Director Engineering Director Corporate Services Director Finance City Solicitor Assistant Director, Transportation
------------	---

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.

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.

To: Chair and Members Financial Management Committee
From: Director Engineering
Re: 2021 FEBRUARY ENGINEERING CAPITAL
TRANSPORTATION BYLAW FUNDING REQUEST
2021 February 03..... Page 2

- 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.

To: Chair and Members Financial Management Committee
 From: Director Engineering
 Re: 2021 FEBRUARY ENGINEERING CAPITAL
 TRANSPORTATION BYLAW FUNDING REQUEST
 2021 February 03..... Page 3

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.

Project Mask	2021	2022	Total
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.

To: Chair and Members Financial Management Committee
From: Director Engineering
Re: 2021 FEBRUARY ENGINEERING CAPITAL
TRANSPORTATION BYLAW FUNDING REQUEST
2021 February 03..... Page 4

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