

FINANCIAL MANAGEMENT COMMITTEE

TO: *MAYOR AND COUNCILLORS*

SUBJECT: MAJOR ENGINEERING PROJECTS STATUS UPDATE

RECOMMENDATION:

THAT the report titled “Major Engineering Projects Status Update” dated February 20, 2024, be received for information.

REPORT

The Financial Management Committee, at its meeting held on February 20, 2024, received and adopted the attached report providing an update on select Engineering Projects.

On behalf of the Financial Management
Committee,

Councillor P. Calendino
Chair

Councillor A. Gu
Vice Chair

TO: FINANCIAL MANAGEMENT COMMITTEE (FMC)
FROM: GENERAL MANAGER ENGINEERING
SUBJECT: MAJOR ENGINEERING PROJECTS STATUS UPDATE
PURPOSE: To provide an update on select Engineering Projects.

RECOMMENDATION

THAT the report titled “Major Engineering Projects Status Update” dated February 20, 2024, be received for information.

1.0 POLICY SECTION

The advancement of these projects aligns with the community pillar of the Burnaby Strategic Plan and is further supported by the Burnaby Transportation Plan and various Asset Management Plans.

2.0 BACKGROUND

The Engineering Department has identified the following projects for regular Committee updates. These projects were selected to represent a broad cross section of the engineering annual work plan and correspond with public interest.

1. Marine Drive: Greenall Avenue to Strathearn Avenue
2. Sidewalk Expansion Program - Alpha Secondary School
3. Sidewalk Expansion Program - 6th Street
4. Burnaby Lake Pedestrian Bridge Overpass
5. SFU Evacuation Route

Throughout a project lifecycle, engineering projects progress through several phases. In the interest of annual reporting, these phases can be summarized into design and construction.

1. **Design:** In this phase, the design is developed to a level of detail suitable for construction. General tasks include preliminary design, environmental and regulatory permitting, interested parties’ engagement, detailed design, and construction procurement.

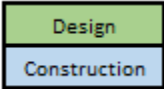
2. **Construction:** In this phase, the plans developed in the design phase are carried out by the successful contractor. Throughout construction, the City monitors construction progress and liaises with interested parties.

Upon completion of a successful project, the new assets are handed over to the Infrastructure and Public Works divisions to operate and administer the programs and/or services.

3.0 GENERAL INFORMATION

The following is a visual representation of the schedules of major Engineering projects identifying the development phases outlined in Section 2.0:

Project Name	2024				2025				2026				2027				2028				Est. Construction Complete
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Marine Drive: Greenall Avenue to Strathearn Avenue																					Q4 2026
Sidewalk Expansion Program - Alpha Secondary School																					Q2 2026
Sidewalk Expansion Program - 6th Street																					Q4 2025
Burnaby Lake Pedestrian Bridge Overpass																					Q4 2025
SFU Alternate Access Route																					Q4 2024



3.1 Marine Drive: Greenall Avenue to Strathearn Avenue

Background and scope: This project will bring Marine Drive from Greenall Avenue to Strathearn Avenue to the urban street standard, including 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.

Schedule: The design phase of this project is complete. The construction phase is expected to start in Q3 2024. This project is on schedule.

Total estimated value including design and overhead: \$13,100,000.

Spent to date: \$137,000.

Percentage completion to date: 25%

3.2 Sidewalk Expansion Program: Alpha Secondary School Sidewalk Improvements

Background and scope: Project scope includes new sidewalks, curb and gutter, front boulevard with street trees, utility upgrades, IT communication conduit, and streetlight upgrades.

Schedule: This project was subject to an Archaeology Impact Assessment permit (AIA), currently under review with Indigenous Relations and Reconciliation. Due to the AIA requirement, the project tender is also under review.

Total estimated value including design and overhead: \$12,500,000.

Spent to date: \$409,000.

Percentage completion to date: 20%

3.3 Sidewalk Expansion Program: 6th Street

Background and scope: Project scope includes new sidewalks, curb and gutter, front boulevard with street trees, multi-use path from Burris Street to Nursery Street, IT communication conduit, and streetlight upgrade.

Schedule: Construction commenced in Q4 2023; however, it has been delayed until Provincial Heritage permits have been received.

Total estimated value including design and overhead: \$6,000,000.

Spent to date: \$640,000.

Percentage completion to date: 45%

3.4 Burnaby Lake Pedestrian Bridge Overpass

Background and scope: The pedestrian-cyclist overpass and associated pathways will support multiple regional initiatives and strengthen the broader regional active transportation network. This includes improving connectivity with Metro Vancouver's Central Valley Greenway system and TransLink's Major Bikeway Network. This project was identified as part of the City's Transportation Plan.

Schedule: Preliminary construction activities on the abutments have started and design optimization for the bridge structure is ongoing. The project is expected to be completed in Q4 2025.

Total estimated value including design and overhead: \$19,000,000.

Spent to date: \$3,171,000.

Percentage completion to date: 20%

3.5 SFU Alternate Access Route

Background and scope: Design and construct a 4.0 metre paved emergency route to connect Simon Fraser University (SFU) and Mintara Restaurant parking lot in Burnaby Mountain Park. This emergency route will be designed to allow downhill evacuation for users of all ages, abilities, and ambulance usage. The project also includes the installation of a Fortis gas line from University Drive to the restaurant. Current design iterations consider limited ground disturbance to minimize archaeological and urban forest impacts.

Schedule: Currently in design phase with construction expected to begin in Q2 2024. The project is expected to be completed in Q4 2024.

Total estimated value including design and overhead: \$2,000,000.

Spent to date: \$100,000.

Percentage completion to date: 30%

4.0 COMMUNICATION AND COMMUNITY ENGAGEMENT

Not applicable.

5.0 FINANCIAL CONSIDERATIONS

Funding for these major Engineering projects is included in the 2024-2028 Capital Plan.

Respectfully submitted,

May Phang, P. Eng. General Manager Engineering

REPORT CONTRIBUTORS

This report was prepared by Louise Huang, P.Eng., Senior Engineer Project Management, Fernando Imola, P.Eng., Engineer Project Management, Amer Nawaz, P.Eng., Senior Engineer Project Management, Chris Stacey, P.Eng., Director Engineering Projects, and Dakshin Gunawardana, Senior Manager, Engineering Business Operations.