



**City of  
Richmond**

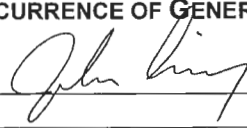

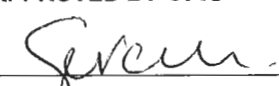
**Report to Committee**

**To:** Public Works and Transportation Committee      **Date:** December 8, 2021  
**From:** Suzanne Bycraft      **File:** 10-6370-01/2021-Vol  
 Director, Public Works Operations      01  
**Re:** **Corporate Electric Vehicle Charging Station Installation Scope Increase**

**Staff Recommendation**

That the Consolidated 5 Year Financial Plan (2022-2026) be amended accordingly for the scope change as identified in the staff report titled, "Corporate Electric Vehicle Charging Station Installation Scope Increase", dated December 8, 2021, from the Director, Public Works Operations.

Suzanne Bycraft  
 Director, Public Works Operations  
 (604-233-3338)

REPORT CONCURRENCE		
<b>ROUTED TO:</b> Finance Department	<b>CONCURRENCE</b> <input checked="" type="checkbox"/>	<b>CONCURRENCE OF GENERAL MANAGER</b> 
<b>SENIOR STAFF REPORT REVIEW</b>	<b>INITIALS:</b> 	<b>APPROVED BY CAO</b> 

## Staff Report

### Origin

In June 2020, the City applied for \$495,000 in grant funding through Natural Resources Canada's (NRCan) *Electric Vehicle and Alternative Fuel Infrastructure Deployment Initiative Grant Program*. The City's application was initially denied, but was subsequently approved in August, 2021 under NRCan contract ZP-138 for a total amount of \$420,000. In order to take advantage of the short notice given by NRCan for the subsequent funding consideration, the City leveraged two Council approved capital projects, namely the "Fleet Electrical Charging Infrastructure Installations" and "Works Yard Electrical Service Upgrade and EV Infrastructure". The capital project budgets for these two projects were increased by the approved grant funding as revised in the Amendments to the Consolidated 5 Year Financial Plan (2021-2025) Bylaw No. 10239.

These Council-approved capital projects are limited to the City Hall Annex and the Works Yard. Therefore, this report seeks approval to expand the original project scopes to include the installation of 12 level 2 and 3 level 3 additional charging ports at various City facilities for corporate fleet vehicles. This approach aligns with the planned expansion of the City's electric vehicle (EV) fleet and is in accordance with the terms of the NRCan contract ZP-138.

This report supports Council's Strategic Plan 2018-2022 Strategy #2 A Sustainable and Environmentally Conscious City:

*Environmentally conscious decision-making that demonstrates leadership in implementing innovative, sustainable practices and supports the City's unique biodiversity and island ecology.*

*2.1 Continued leadership in addressing climate change and promoting circular economic principles.*

*2.2 Policies and practices support Richmond's sustainability goals.*

### Analysis

The City of Richmond is proud to be a leader in sustainable, zero emissions transportation. The City's Green Fleet Action Plan and Sustainable Green Fleet Policy 2020 identify strategies and new technologies to improve fleet fuel efficiencies. Additionally, Council further reflected the City's commitment to expand its corporate passenger fleet vehicle by adopting the staff recommendation to join the West Coast Electric Fleets Diamond Lane pledge at the September 27, 2021 Council meeting. This commits the City to replace more than 10% of all new corporate fleet passenger vehicle procurements with zero emission vehicles each year. The funding application under NRCan contract ZP-138 supports this commitment by enabling the installation of more charging infrastructure to ensure charging capacity for the City's expanding EV fleet.

As detailed in Table 1 below, the two capital projects that are leveraged for this grant funding application increases the total capital project budget by \$420,000, or from \$2,209,700 to \$2,629,700.

Table 1: Council Approved Capital Projects

<b>Year</b>	<b>Capital Project</b>	<b>Amount Approved</b>
2019	CV00012 – Fleet Electrical Charging Infrastructure Installations	\$521,700
2020	CB00083 – Works Yard Electrical Service Upgrade and EV Infrastructure	\$1,688,000
	<i>Subtotal Available Funding Amount</i>	\$2,209,700
2021	ZP-138 – Additional NRCan Grant Funding	\$420,000
	<b><i>Total Available Budget with Grant Funding Included</i></b>	<b>\$2,629,700</b>

### Project Scope Expansion

Staff have undertaken an analysis of the planned deployment of the vehicles to be replaced under the Council approved Vehicle and Equipment Reserve Purchases (Public Works and Corporate Fleet). Table 2 identifies the additional charging infrastructure which will expand the project scopes to incorporate those locations best suited for corporate EV fleet expansion. This includes 12 (level 2) and 3 (level 3) charging ports for the City's corporate fleet.

Table 2: Additional Charging Infrastructure

<b>Location</b>	<b>Address</b>	<b>Charging Station</b>
Fire Hall No. 1	6960 Gilbert Rd.	4 x Level 2 charging ports
Fire Hall No. 2	11011 No. 2 Rd.	2 x Level 2 charging ports
Fire Hall No. 3	9660 Cambie Rd.	4 x Level 2 charging ports
RCMP Headquarters	11411 No. 5 Rd.	2 x Level 2 charging ports
Works Yard	5599 Lynas Ln.	2 x Level 3 charging ports
City Hall	6911 No. 3 Rd.	1 x Level 3 charging ports

The NRCan grant funding offsets the capital costs to install the stations at the locations noted in Table 2. In accordance with standard practise, any ongoing maintenance and operating costs will be charged to the Fleet Operations budget, and recovered via internal fleet charges.

### Overview of the NRCan Electric Vehicle and Alternative Fuel Infrastructure Deployment Initiative Grant Program

The Government of Canada's Zero Emission Vehicle Infrastructure Program (ZEVIP) is a 5-year, \$280 million program developed to address the lack of charging and refuelling stations across Canada. Lack of infrastructure has been identified as one of the key barriers to zero emission vehicle adoption. Increasing the availability of localized charging and hydrogen refuelling opportunities where Canadians live, work, and play will increase the overall adoption of EVs. This grant funding will be delivered through cost-sharing contribution agreements (ZP-138) that will help Canada continue to encourage the switch to green vehicles.

### **Financial Impact**

None.

## **Conclusion**

The City has received grant funding approval through NRCan Contract ZP-138 which allows the City the ability to add 15 charging ports (12 level 2 and 3 level 3) for corporate fleet vehicles. The capital project budgets for these two projects have already been increased by the approved grant funding as revised in the Amendments to the Consolidated 5 Year Financial Plan (2021-2025) Bylaw No. 10239.

This report seeks Council approval to expand the project scope to include specified locations at various City facilities to support accelerated fleet EV replacements. This aligns with Council's commitment under the West Coast Electric Fleets Diamond Lane pledge and Green Fleet Action Plan strategies.



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