

Date: 2022-08-22

Subject: **Request to Begin Procurement – Electric Vehicle Charging Stations – Phase 1 - 120 Sandalwood Parkway West, Brampton Ward 2**

Contact: Kaushal Patel, Acting Project Manager, New Facilities Development Services, Building Design and Construction, Public Works and Engineering
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Report Number: Public Works & Engineering-2022-830

Recommendations:

1. **THAT** the report from Kaushal Patel to the September 7, 2022, meeting of Committee of Council, titled: **Request to Begin Procurement – Electric Vehicle (EV) Charging Stations – Phase 1 - 120 Sandalwood Parkway West, Brampton Ward 2** - be received; and
2. **THAT** the Purchasing Agent be authorized to begin procurement to retain a Design Builder to provide Design and Construction services for the Electric Vehicle Charging stations at 120 Sandalwood Parkway West.

Overview:

- As part of the 2022 Capital Budget Approval process, Council approved funding and directed staff to conduct due diligence work to deliver an Electric Vehicle (EV) Charging Station Project for Brampton's Fleet Services.
- The project will provide critical EV charging infrastructure to support the planned electrification of the Public Works and Engineering Department's light truck and vehicle fleet.
- The project is planned in two phases. Phase 1 consists of the design, and installation of EV charging stations at the Sandalwood Works Yard, located at 120 Sandalwood Parkway West. Phase 2, is subject to future funding approval and will consist of the design and installation of EV charging

stations at the Williams Parkway Operations Center, located at 1975 Williams Parkway and at the Flower City Community Campus, located at 8850 McLaughlin Road South.

- BDC staff, in collaboration with Fleet Services staff, have completed a detailed assessment of the fleet's current electric vehicle use and appropriate charging technology to develop the project requirements.
- Staff have completed all necessary site assessment, due diligence, and technical work to identify the project scope, develop and finalize the detailed functional program, project schedule, and budget.
- The project will implement industry best practices to support the City's plan to transition its fleet to electric vehicles to reduce GHG emissions by more than 80%, from 2019 levels over the 2021-2035 period. This project will help to achieve the City's overall GHG emission targets of a 50% reduction by 2040 and an 80% reduction by 2050.
- The project supports the Brampton Grow Green Environmental Master plan.
- This report seeks Council's approval to begin procurement to hire a Design Builder for Design and Construction services for the proposed project.

Background:

"The September 2020 office consolidation of the City of Brampton's 2006 Official plan" lays the groundwork for a more sustainable Brampton and contains specific policy direction for the City to develop strategies to limit the impacts from existing and planned sources of harmful emissions.

The City's Community Energy and Emissions Reduction Plan (CEERP) sets ambitious GHG reduction targets that will see the City cut GHG emissions by 30% by 2030, 50% by 2040, and 80% by 2050.

CEERP identifies the transportation sector as the largest contributor to Brampton's GHG emissions. The plan recommends a series of actions to increase corporate and citywide adoption and use of electric vehicles (EV).

The City of Brampton released its 2019-2024 Corporate Energy and Emissions Management Plan: A Zero Carbon Transition, which focuses on minimizing emissions and energy intensity and maximizing cost recovery within the construction, management, and operations of its facilities. This includes the continued expansion of corporate and

public EV charging stations. The City currently has fifty-three public EV charging stations across sixteen sites, and twenty-three corporate EV charging stations.

In March 2022, Council approved the Brampton Sustainable Fleet Strategy that recommends a clear vision and roadmap for the City of Brampton's fleet operations to reduce its GHG emissions by 80% by 2035. To achieve this goal, the Strategy recommends focusing Fleet capital spending towards replacing corporate light & medium duty gasoline and diesel vehicles with EV vehicles and installing charging infrastructure for all such vehicle categories in the short and mid-term.

Staff conducted an in-depth analysis of the usage patterns of existing City fleet vehicles, including but not limited to, time of use, round trip distance, time at scene, etc., and, accounting for future fleet growth, determined that a phased-in fleet electrification program will require in total, 186 charging connectors that will be provided for the exclusive use of City of Brampton owned vehicles.

The associated co-benefits of implementing the Sustainable Fleet Strategy recommendations include:

- Improved air quality and energy efficiency.
- Fuel and maintenance costs savings.
- Demonstrated leadership in environmental sustainability.

Installing the EV infrastructure is planned in two phases, as follows:

Phase 1 consists of the design, and installation of EV charging stations with fifty charge points at The Sandalwood Works Yard, located at 120 Sandalwood Parkway West.

Phase 2 is subject to future funding approval and will consist of the design and installation of 26 charging connectors at the Williams Parkway Operations Centre, located at 1975 Williams Parkway Facility, and 110 charging connectors at the Flower City Community Campus, located at 8850 McLaughlin Road South.

The consequences of not approving this report will be a delay in Fleet Operations' plan to transition existing corporate light & medium duty gasoline and diesel vehicles to electric vehicles and will impact the City's ability to achieve the Sustainable Fleet Strategy's GHG reduction targets of 80% by 2035.

Current Situation:

BDC staff are preparing the Request for Proposal documents in collaboration with Purchasing and Fleet Services staff and are ready to proceed with procurement of a design builder for Phase 1.

BDC staff anticipate engaging the Design Builder at the start of Q4-2022 and anticipate starting construction in Q1-2023. The EV charging stations are expected to be installed

and ready for service by the end of Q4-2023. To meet the project schedule and the conditions the Design Build RFP will need to be released by Q4-2022.

Corporate Implications:

Purchasing Comments:

A public Procurement Process will be conducted, and the bid submissions shall be evaluated in accordance with the published evaluation process within the Bid Document. Purchase approval shall be obtained in accordance with the Purchasing By-law.

All communication with Bidders involved in the procurement must occur formally, through the contact person identified in the Bid Document.

Financial Implications:

Sufficient funding is available within the Public Works and Engineering approved Capital Budget for the procurement services recommended in this report.

Term of Council Priorities:

The Sustainable Fleet Strategy supports the “Brampton is a Green City” and the “Brampton is a Well-Run City” Term of Council Priorities by improving the City’s sustainability performance, streamlining service delivery, and effectively managing municipal assets.

Conclusion:

The project supports the future transition of Brampton’s corporate fleet to EV over the next 10 years and the achievement of significant GHG reductions. It is recommended that Council authorize the Purchasing Agent to commence procurement as described in this report and move the project forward at this time.

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