



**City of Edmonton**

# **Project Brief**

Valley Line West  
Light Rail Vehicles

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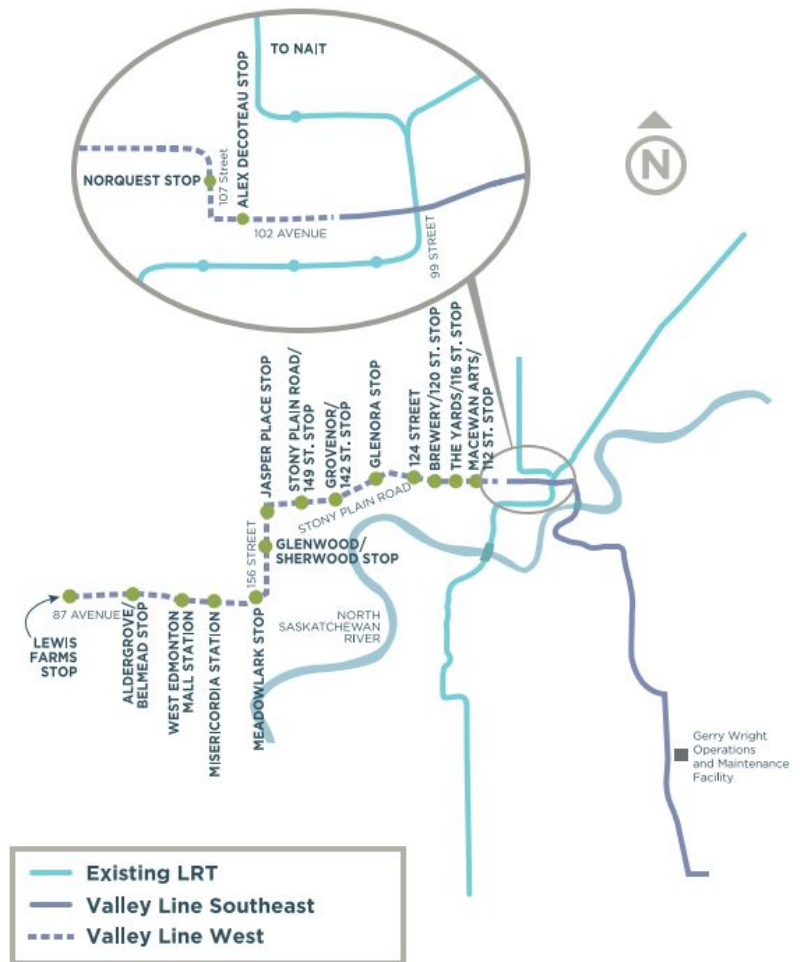
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# 1. Introduction

The City of Edmonton (the "City") is preparing to launch the procurement process for the supply of approximately forty low-floor light rail vehicles ("LRV") for the Valley Line West LRT extension (the "Project"). The additional vehicles will supplement, but not operate in mixed consists with, the 26 existing Bombardier Flexity LRVs that are currently being supplied for the Valley Line Southeast LRT project ("VLSE"). All vehicles will be required to operate on the entire Valley Line Light Rail Transit ("LRT") line.

At 27 kilometres, the Valley Line LRT represents the largest mass transit investment in the City's history. The long-term vision for the Valley Line includes continuous operations between Mill Woods in the City's southeast through Downtown to Lewis Farms at the City's western limits. It will also include an operations and maintenance campus at the Gerry Wright Operations and Maintenance Facility and an additional storage facility at the Lewis Farms terminus site.

The VLSE is currently under construction and expected to open in 2021. The VLW is currently in procurement, with financial close expected at the end of 2020. Land



acquisition and early construction works are underway.

For more information about the overall Valley Line LRT history, public consultation, and previous procurements, please visit the project website:

<https://www.edmonton.ca/valleyline>



This Project Brief has been prepared by the City to notify LRV suppliers of the upcoming procurement for the supply of vehicles. Information contained in this document may change or will be supplemented by further details in procurement documentation and the LRV supply agreement.

In August 2020, the City will be inviting LRV suppliers to a market sounding. It is the City's intention to use this process to generate awareness and interest in the project, understand industry risks and opportunities, and refine the procurement approach. The City is committed to executing a collaborative and transparent procurement process that responds to market appetite, while ensuring value for money for taxpayers.

All interested parties may direct queries to the following email prior to the formal launch of the procurement process in October 2020.

Email: [vlwprocurement@edmonton.ca](mailto:vlwprocurement@edmonton.ca)

## 2. Procurement Process

The City uses [SAP Ariba](#), a web-based tool used for procurement, contract and invoice management processes. Electronic copies of the procurement documents will be posted to Ariba.

Interested parties are encouraged to sign up for an account immediately to facilitate ease of participation in the forthcoming Sourcing Event.

In addition to being found on Ariba, a notice regarding the posting of the Sourcing Event will also be posted on the [Alberta Purchasing Connection website](#).

Alberta Purchasing Connection (APC) and Ariba are the only sources sanctioned by the City. Notices will be posted on APC and the official sourcing documents will be posted on Ariba.

### 2.1. Procurement Timeline

The tentative procurement timeline from the Sourcing Event release through to commercial close is outlined in the table below. Following the release of the first Sourcing Event, the City will evaluate and determine a shortlist of suppliers. The shortlist will be invited to continue into the RFP phase.

Activity	Date
Sourcing Event Release (RFQ)	Q4 2020
Sourcing Event Information Session	Q4 2020
Sourcing Event Release (RFP)	Q1 2021
Contract Close	Q3 2021



## 3. Highlights of Draft LRV Supply Agreement

### 3.1. Project Scope

The LRV supplier is responsible for the design, manufacture, supply and commissioning of approximately forty (40) 40-metre low-floor urban-style light rail vehicles. The LRVs must be compatible with the existing infrastructure, having to operate over both sections of the Valley Line, and use VLSE compatible on-board systems and communication systems. The LRVs are also required to meet the following high-level requirements:

- be bidirectional, articulated, low-floor LRVs, that provide a low floor area that is greater than 90% of the passenger area with level entry boarding at all door thresholds at all Valley Line platforms and stops;
- be integrated with Valley Line operation and maintenance facilities, and wayside infrastructure system elements at all Valley Line locations;
- be service proven, having been operated in a similar climate and conditions;
- be operable in both segregated and mixed automobile traffic right of ways; and
- present a sleek LRV design that is architecturally timeless and enduring, emphasizes passenger safety and comfort, and is clearly identifiable as part of the Valley Line identity and the overall Edmonton Transit Service (ETS) identity.



## 3.2. Timeline

The Project comprises the following tentative key dates for supply and delivery of the LRVs shown in the figure. All dates are targets and are subject to change as the procurement advances.

Activity	Tentative Date
Final design	Q2 2022
First vehicle delivery	Q2 2025
All vehicles delivered	Q1 2027
Commissioning period	Q2 2025 - Q2 2027
Performance demonstration period	Q2 2027 - Q2 2028

## 3.3. Project Interfaces

There are three other projects that the LRV supplier will interface with:

- Valley Line Southeast - currently in construction as DBFVOM;
- Valley Line West Infrastructure - currently in procurement as a DBF; and
- Operations & Maintenance Service Provider - future procurement.

## 3.4. Commercial Considerations

The procurement will result in a fixed-price supply agreement including the price for spare parts, special tools and training.

The City will pay the LRV supplier based on progress, using a milestone regime that complements the LRV design, delivery, commissioning and acceptance schedule.