



EXERCISE OF AN OPTION UNDER CONTRACT NO. 2021-125 WITH SIEMENS MOBILITY INC.

**AUTHORIZING THE EXERCISE OF AN OPTION TO
PURCHASE EIGHTEEN (18) HIGH FLOOR LIGHT RAIL VEHICLES**

Presented to: Committee of the Whole
November 5, 2024

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PROCUREMENT OVERVIEW

AUTHORIZING THE EXERCISE OF AN OPTION TO PURCHASE EIGHTEEN (18) HIGH FLOOR LIGHT RAIL VEHICLES

- This is a request to approve the execution of the negotiated competitive contract option to purchase eighteen (18) of the remaining thirty (30) railcars off Contract No. 2021-125 with Siemens Mobility Inc.
- On April 18, 2023, the Authority awarded Contract No. 2021-125 to Siemens Mobility, Inc. (“Contract”) for the manufacture and delivery of up to twenty-four (24), High Floor Light Rail vehicles, spare parts, tooling and training in an amount not to exceed \$163,920,115.00, with an option to procure up to thirty-six (36) additional railcars, spare parts, tooling and training to be delivered over the seven (7) year contract term.

PROCUREMENT OVERVIEW

AUTHORIZING THE EXERCISE OF AN OPTION TO PURCHASE EIGHTEEN (18) HIGH FLOOR LIGHT RAIL VEHICLES

- The Contract included a provision for the one-time purchase of up to six (6) railcars, within six (6) months of Notice to Proceed, at the original contract unit price of \$5,166.336.00, with no escalation.
- The Board of Trustees, on November 28, 2023, in Resolution No. 2023-088, authorized the first option to purchase those six (6) additional railcars.
- There have been four (4) additional change orders, in a total amount of \$671,718.21, authorized by the General Manager, Chief Executive Officer, as identified on the attached Change Order Log.

PROCUREMENT OVERVIEW

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CHANGE ORDER No. 5 LOG

CONTRACT NO. 2021-125

**TECHNICAL SPECIFICATION, PROGRA MANAGEMENT AND ENGINEERING SERVICES FOR
RED LINE HRV REPLACEMENT**

Contract #2021-125

Contractor: **Siemens Mobility Inc.**

Original Contract Amount **\$163,920,115.00**

Total G.M./C.E.O. Authority Remaining **\$ 5,828,281.79**

Total Change Order Amount To Date **\$31,669,734.21**

| <i>ITEM NO.</i> | <i>NOTE No.</i> | <i>APPROVAL DATE</i> | <i>CHANGE ORDER AMOUNT</i> | <i>APPROVAL AUTHORITY</i> | <i>NEW CONTRACT AMOUNT</i> |
|-----------------|-----------------|----------------------|----------------------------|---------------------------|----------------------------|
| 1 | 1 | 11-28-23 | \$30,998,016 | BOT | \$194,918,131.00 |
| 2 | 2 | 12-5-23 | \$510,888 | \$5,989,112.00 | \$195,429,019.00 |
| 3 | 3 | 12-6-23 | \$0.00 | \$5,989,112.00 | \$195,429,019.00 |
| 4 | 4 | 3-29-24 | \$108,916.54 | \$5,880,195.46 | \$195,537,935.54 |
| 5 | 5 | 8-6-24 | \$51,913.67 | \$5,828,281.89 | \$195,589,849.21 |
| | | | | | |
| | | | | | |
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NOTES/CHANGE ORDER DESCRIPTION:

- CO No. 1 – Exercise 6 Vehicle Options
- CO No. 2 – 4 Additional Couplers
- CO No. 3 – Modification of SP-20B
- CO No. 4 – Smoke Detectors
- CO No. 5 – Additional Wheel Profiles

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PROCUREMENT OVERVIEW

AUTHORIZING THE EXERCISE OF AN OPTION TO PURCHASE EIGHTEEN (18) HIGH FLOOR LIGHT RAIL VEHICLES

- The Authority now seeks to exercise an option to purchase eighteen (18) of the thirty (30) remaining railcars under the Contract and Spare Parts and Special Tools.
- The Contract provided that the cost for the last thirty (30) railcars would be priced at the original base price of \$5,166,336.00 plus an inflationary price increase that would be calculated at the time of final assembly of each railcar based on the Producer Price Index for Transportation Equipment and a national labor index that is published monthly by the United States Department of Labor Bureau of Labor Statistics.

PROCUREMENT OVERVIEW

AUTHORIZING THE EXERCISE OF AN OPTION TO PURCHASE EIGHTEEN (18) HIGH FLOOR LIGHT RAIL VEHICLES

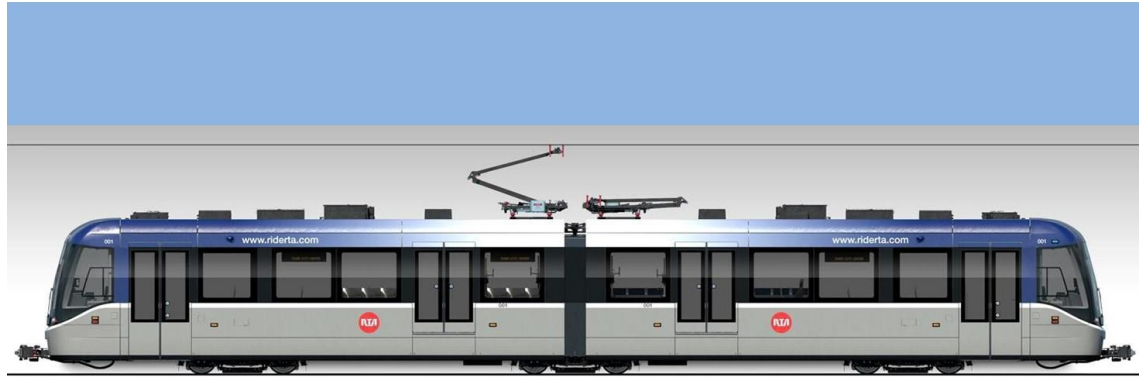
- As of September 2024, the base price of \$5,166,336.00 has risen to \$5,342,171.56 based on the market indices.
 - Application of a ten-year historical review of those indices results in a projected price of \$5.8M per railcar at the time of final assembly.
- Funding has been identified to fund this change order in an amount not to exceed \$112,800,000.00 for the eighteen (18) railcars, spare parts and special tools, resulting in a new total contract budgeted amount of \$308,389,850.
- This procurement will result in twelve (12) railcars remaining under the contract option.

Key Features of New Vehicle

- First High floor LRV built to RT1-2020 design standards
- Ice cutter pantograph on every train
- Heated windshield and pantograph
- Load leveling system to adjust floor height
- Dedicated HVAC unit for operator cab
- 52 passenger seats, 4 wheelchair areas and 2 bicycle racks
- Passenger Information System

Project Overview

High Floor Light Rail Vehicles



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Project Overview

Interior Layout

Bird's Eye View



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Project Overview

Interior Layout



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Railcar Replacement Program

- Railcar Replacement HRV
- Railcar Replacement LRV
- Railcar Spare Parts
- Design & Construction Support Services
- Infrastructure Modification

Railcar Replacement Program

Contract Value

| | Qty | Description | Unit Price | Sub-Total | Nonrecurring Costs | Change Order Total Price | Contract Value |
|---|-----|--------------------------------|-------------|---------------|--------------------|--------------------------|----------------|
| 1 | 24 | Base Contract | \$5,166,336 | \$123,992,064 | \$39,928,051 | \$163,920,115 | |
| 2 | 6 | CO #01 - 6 Option Vehicles | \$5,166,336 | \$30,998,016 | 0 | \$30,998,016 | \$194,918,131 |
| 3 | 4 | CO #02 - Additional Couplers | \$127,722 | \$510,888 | 0 | \$510,888 | \$195,429,019 |
| 4 | N/A | CO #03 - Modification of SP20B | \$0 | \$0 | 0 | \$0 | \$0 |
| 5 | 30 | CO #04 - Smoke Detectors | 2,350.34 | 70,510.15 | \$38,406 | \$108,917 | \$195,537,936 |
| 6 | 1 | CO #05 - Wheel Profiles | 0.00 | 0.00 | \$51,914 | \$51,914 | \$195,589,850 |

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Railcar Replacement Program

| RAILCAR REPLACEMENT PROGRAM - FUNDING STACK | | | | |
|---|-----------------------|----------------|------------------|--------------------|
| <u>FUNDING SOURCE</u> | <u>FUNDING AMOUNT</u> | <u>AWARDED</u> | <u>COMMITTED</u> | <u>UNCOMMITTED</u> |
| GCRTA ROLLING STOCK RESERVE FUND | \$79,000,000 | \$79,000,000 | \$0 | \$0 |
| FTA SECTION 5307 AND 5337 FORMULA GRANT FUNDS | \$80,500,000 | \$34,232,286 | \$46,267,714 | \$0 |
| FTA SECTION 5337 IIJA Rail Car/USDOT BUILD/RAISE FUND | \$155,000,000 | \$155,000,000 | \$0 | \$0 |
| ODOT STBG/CMAQ | \$50,000,000 | \$29,308,000 | \$8,272,000 | \$12,420,000 |
| ODOT GRF | \$4,500,000 | \$4,500,000 | \$0 | \$0 |
| NOACA STBG | \$24,000,000 | \$16,800,000 | \$7,200,000 | \$0 |
| Total | \$393,000,000 | \$318,840,286 | \$61,739,714 | \$12,420,000 |

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Federal Transit Administration - Buy America Review

As a condition to receiving FTA grant funds for the purchase of rolling stock, GCRTA must certify compliance with Buy America and the pre-award and post-delivery audit requirements, as prescribed by 49 CFR part 663. This requirement also applies to options.

- The manufacturer must demonstrate the cost of domestic components is greater than 70% of the value of the total car cost. We must verify the manufacturer's information.
- Final assembly of the vehicles must take place in the United States in accordance with 49 CFR Part 661.11.
- The rolling stock procured is the same product described in its solicitation specification; and the proposed manufacturer is a responsible manufacturer with the capability to produce a vehicle that meets the GCRTA's specification.
- Internal Audit completed the pre-award audit for the base order of 24 cars in May 2023. An additional pre-award audit for the 6 option cars was completed and the certificates were issued on December 7, 2023.
- IA will complete the pre-award audit for the second option of vehicles upon approval by the board. The audit is tentatively scheduled for December 2, 2024 pending approval.

Procurement Overview

Recommendation:

Staff requests that the Committee of the Whole recommend to the Board of Trustees the award of an option for the purchase and delivery of eighteen (18), of the remaining thirty (30), High Floor Light Rail Vehicles, Spare Parts and Special Tooling, in an amount not to exceed \$112,800,000.

Questions

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