

Committee Report

Transportation Committee



Committee Meeting Date: July 10, 2023

For the Metropolitan Council: July 26, 2023

Business Item: 2023-105

METRO Green Line Extension Systems Construction Change Order and Cumulative Change Order Authority Increase, Contract 17P000

Proposed Action

That the Metropolitan Council (Council) authorize the Regional Administrator through the Green Line Extension (GLE) Council's Authorized Representative to negotiate and execute a change order for Contract 17P000 with Aldridge – Parsons, a Joint Venture (APJV) in an amount not to exceed \$4,524,243.46 for work related to the Traction Power Substation (TPSS) Foundation Design Modification; and that the Council authorize an additional 7.48% (\$14.5 million) to the current 10% (\$19.4 million) cumulative change authority for Contract 17P000 with APJV, resulting in 17.48% (\$34.0 million) cumulative change order authority.

Summary of Transportation Committee Discussion/Questions

Metro Transit's METRO Green Line Extension Construction Director Nic Dial presented this item. Dolkar asked why the additional change order is needed. Dial explained that originally designed and constructed man-holes for the conduit turned out to be insufficient for the amount of conduit entering into the TPSS; this then required the construction of the basement structures. Dolkar asked for clarification on the current spend down amount. Dial responded that the current authority remaining is the \$4.8M, and we are seeking an additional \$14.5M to add 7.48% to the cumulative change order authority which includes the \$4.5M for the change order for the TPSS Foundation Design Modification.

Motion by Morales, seconded by Carter, Tyronne. Motion carried.

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District(s), Member(s):	All
Policy/Legal Reference:	FM 14-1 Procurement Policy, FM 14-2 Expenditures for the Procurement of Goods, Services, and Real Estate Policy
Staff Prepared/Presented:	Lesley Kandaras, Interim General Manager, 612-349-7513 Nick Thompson, Interim Executive Director, 651-602-1754 Jim Alexander, Project Director, 612-373-3880 Joan Hollick, Deputy Project Director, 612-373-3820 Nic Dial, Construction Director, 612-373-3974 Nat Gorham, Asst. Dir, Project Controls and Contracts, 612-373-3889
Division/Department:	Metro Transit / Green Line Extension Project Office

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Background

On September 18, 2019, the Metropolitan Council awarded a Systems Construction Contract to APJV in the amount of \$194,411,000. APJV is responsible for the manufacture, delivery, installation, and testing of the GLE light rail system components.

During APJV's final phase of TPSS design, it was discovered that the capacity of the manholes originally specified for TPSS sites was inadequate to handle the required cabling and conduits. Due to right of way constraints, it was determined that modifying the TPSS foundation design to include full basements acting as cable vaults would be the most economical solution. This change order will modify the foundation design at 18 of the 19 substations.

Staff is seeking to increase the cumulative change order authority to continue to execute change orders on Systems Construction Contract 17P000 with APJV.

This request to increase the cumulative change order authority incorporates the TPSS foundation change order included in this business item and provides adequate authority for upcoming change orders required for the Project. To date, executed change orders include an approximately \$9 million change order for Systems equipment storage (Business Item No. 2021-132) to mitigate

cost and schedule impacts to Civil construction delays, and an approximately \$1 million change order for Systems work for the Eden Prairie Town Center Station.

FM 14-1 authorizes contract amendments greater than 10% be supported by a sole source approval and FM 14-2 authorizes the Regional Administrator to amend contracts and increase contract prices as delegated by the Metropolitan Council. Council Procurement Procedure 14-1a Section 2.1.2.23 provides 10% cumulative change order authority on construction contracts without further authorization by the Council.

Pursuant to the authority in FM 14-1 and FM 14-2, staff is requesting that the Council authorize an additional 7.48% cumulative change order authority for the APJV Contract. The request would result in the following amounts as shown in the table below:

Description	Amount	Change Order Authorization
Contract 17P000 original contract value	\$194,411,000.00	--
Currently authorized cumulative change order Authority	\$19,441,100.00	10.00%
Value of change orders executed as of June 21, 2023	\$14,592,227.61	7.51%
Current remaining authority	\$4,848,872.39	2.49%
Additional change order authority requested with this business item	\$14,542,546.70	7.48%
Requested cumulative change order authority	\$33,983,646.70	17.48%

Rationale

This authorization will allow the Project to modify the TPSS foundations and to continue executing change orders for Systems construction activities.

Thrive Lens Analysis

Successful completion of the METRO Green Line Extension will advance the following Thrive MSP 2040 outcomes:

Stewardship: Transit investment provides an opportunity to reinvest and grow the capacity of our communities, with more inclusive development and intentional investment. It encourages businesses to invest in communities, which means access to resources, community amenities, jobs, and other community assets.

Equity: Connections to other METRO lines and countless local bus routes will bring people to jobs, jobs to communities, and returns to communities across the region.

Livability: The METRO Green Line Extension will add 14.5 miles to the existing Line, which connects downtown Minneapolis, downtown Saint Paul, and places in-between. This segment connects Eden Prairie, Minnetonka, Hopkins, and St. Louis Park to both downtown Minneapolis and Saint Paul, and major destinations at the University of Minnesota and the State Capitol.

Prosperity: The METRO Green Line Extension reflects strategic investment in regional infrastructure that will promote economic competitiveness and create prosperity for the region. Despite being under construction, the METRO Green Line Extension has already seen more than \$1.6 billion of investment within a half-mile of the line. Another \$500 million in investment is planned.

Sustainability: As many as 700,000 more people will be living, working, and moving around the Twin Cities region by 2040. As a result, a robust transportation system is needed to provide the region choices and more mobility.



Funding

The work for the change order and the requested cumulative change order authority are METRO Green Line Extension Project (61001) eligible costs. Funds are available in Project No. 61001 budget and included in the Council's authorized capital budget.

Small Business Inclusion

The DBE goal established for this Contract is 12%. As of April 30, 2023, APJV is achieving 18.03% DBE participation. The Office of Equity and Equal Opportunity will continue monitoring the contract's progress and communicate with APJV to meet or exceed the 12% DBE participation for the overall contract.





METRO
Green Line
EXTENSION



Business Item 2023-105

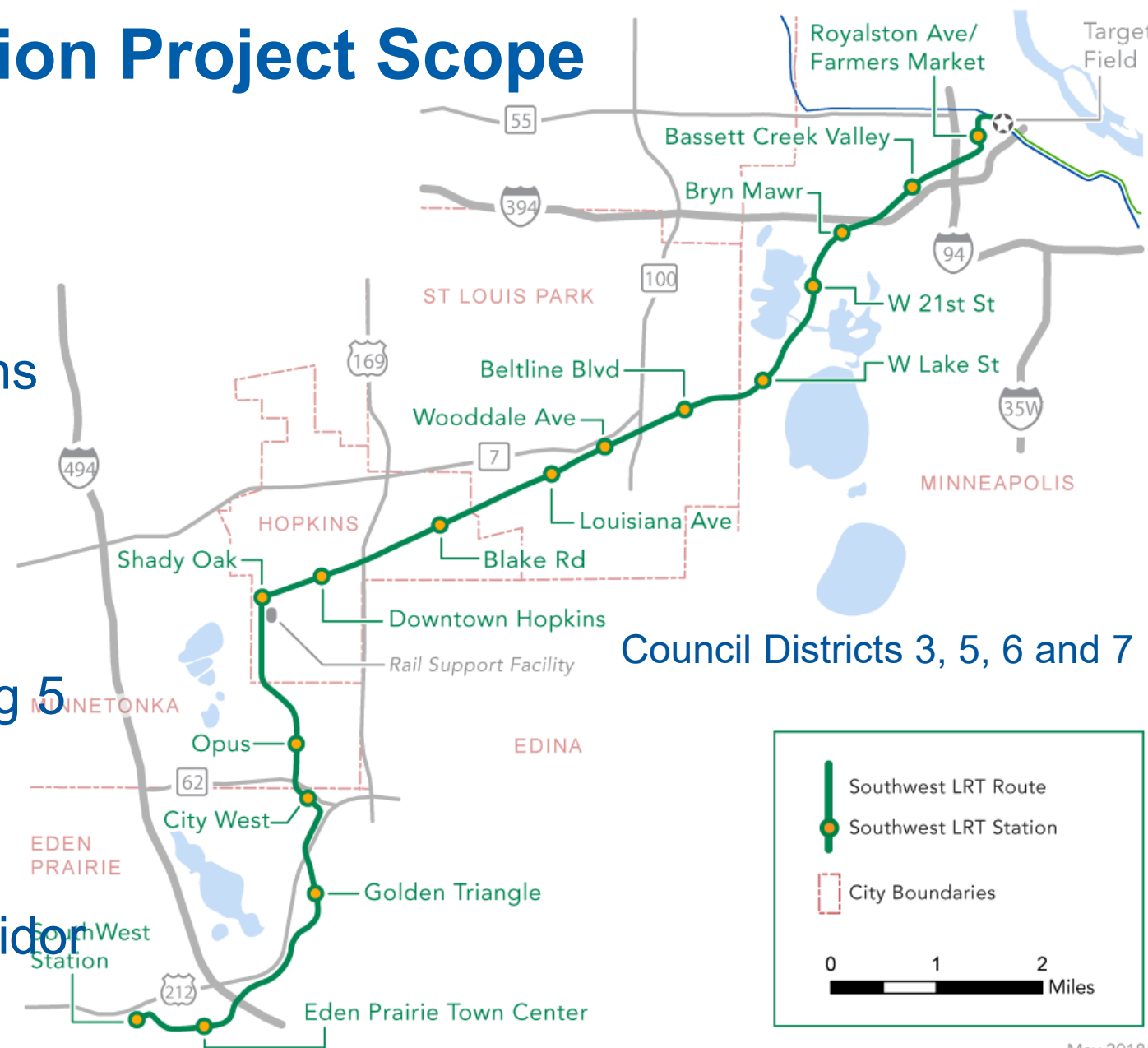
**METRO Green Line Extension
Systems Construction Change Order and
Cumulative Change Order Authority Increase
Contract 17P000**

**Nic Dial, Director of Construction for
Green Line Extension**

**Transportation Committee
Monday, July 10, 2023**

METRO Green Line Extension Project Scope

- 16 new LRT stations
- 44 significant structures:
 - 29 new bridges: LRT, pedestrian, roadway, freight
 - 7 existing bridges with modifications
 - 6 pedestrian tunnels
 - 2 cut and cover LRT tunnels:
 - Highway 62: 582 feet
 - Kenilworth: 2,236 feet
- 15 at-grade LRT crossings; including 5 shared crossings with freight rail
- 121 retaining walls
- LRT track: 14.5 miles
- 7.8 mi shared LRT & freight rail corridor
- Freight rail reconstruction
- Trail reconstruction



Southwest LRT Route

Southwest LRT Station

City Boundaries

0 1 2 Miles

May 2018

Systems Contract Overview

- Contract Award: Sept 18, 2019
- Contractor: Aldridge-Parsons, a Joint Venture
- Contract Value: \$194,411,000
- Change Orders: \$14,592,227.61*



PARSONS

Aldridge: HQ in Libertyville, IL

- Lead contractor for Systems on CCLRT
- Engaged in utility, transportation and commercial/industrial projects across the US with an emphasis on electrical and communications systems

Parsons Corporation: HQ in Centerville, VA

- Technology-focused contractor engaged in defense, intelligence, security and infrastructure engineering
- Experienced in systems integration and project planning

*Executed change orders as of June 21, 2023

Systems Contract Scope

- 20 traction power substations
 - Design, fabricate, install
- Overhead contact system
 - Poles, hangers, cabling
- Tunnel facilities
 - Ventilation, fire suppression, lighting
- Communications
 - Network, voice, paging, cameras
- Wayside signaling system
 - Signals, interlockings, crossings
- Testing and Integration



Negotiate and Execute Change Order with APJV

- During the Contractor's final phase of TPSS design, the Contractor discovered that the capacity of the manholes originally specified for TPSS sites was inadequate to handle the required cabling and conduits.
- Due to right of way constraints, it was determined that modifying the TPSS foundation design to include full basements acting as cable vaults would be the most economical solution.
- This change order will modify the foundation design at 18 of the 19 substations for a total cost of \$4,524,243.46.

Traction Power Substations in Local Storage



TPSS Basement Foundation



Cumulative Change Order Authority

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MORE INFORMATION

Website: greenlineext.org

Email: swlrt@metrotransit.org

Twitter: [@GreenLineExtMN](https://twitter.com/GreenLineExtMN)

Instagram: [@GreenLineExtMN](https://www.instagram.com/GreenLineExtMN)