



January 13, 2023



<u>CDOT - Lake Line - Damen Station</u>

- Non-Revenue Maintenance
- Traction Power Upgrades Canal Tie House, Barry and Damen Substations
- Red and Purple Modernization Project



Justification of Need:

Priority of Project:	Medium
Total Project Budget:	
Construction Contract Value:	\$67,316,000.00
Earned to Date:	18%
Percent Change Orders to Construction Contract:	2.7%
Percent Time Used:	85%
DBE:	MBE: 30% WBE: 8% VBE: 0.96%
Funding Source:	TIF/CMAQ
Estimated Start Date/Estimated Length of Project:	540 days after NTP
Designer of Record:	Perkins and Will
Construction Manager/General Contractor:	Arcadis / FH Paschen



Impact on Customers:	This will be a new Elevated CTA Station on the Lake Branch of the Green Line at Damen and Lake Streets. CTA has also implemented slow zones due to structural on-going work.
Benefit to System:	The new station will provide transit connectivity, convenience and amenities to residents, workers and visitors alike.
Benefit to Community:	New, modern transit facility that will serve the burgeoning needs of the Kinzie Industrial Corridor. The new station will also support visitors to the United Center, Malcom X College and educational institutions.
Impact on Accessibility:	This will be a fully accessible CTA station equipped with escalator and elevator access to both platforms and accessible path to the new station house.
Customer Communication Need:	Customer and Community facing is being handled through CDOT.

Comparable Projects:

Morgan Station on Green Line

Construction Progress

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Phase	Description	Status
Construction	 Pour Mat Foundation for station house Installed Deep Benchmarks/Inclinometers to monitor existing 30-inch water main Continue excavation of caisson caps and grade beams at Station House Installation of ERS for Stage I Bent replacement Install Shoring towers/Demo columns and pier footings (Bent replacement) Install Platform Steel 	Completed Completed On-Going Planned Q1 Planned Q2





Damen Station

Concrete Mat Foundation for Station House



Damen Station House

Rerouted DEO conduit at Station House



Project Title: Non-Revenue Rail Vehicle Facility

Justification of Need:

Priority of Project:	Medium
Total Project Budget:	\$65,902,503
Construction Contract Value:	\$42,676,222
Earned to Date:	29% (thru September 2022)
Percent Change Orders to Construction Contract:	4% (Change Order #1 - \$1,694,221 - Executed October 4th, 2022)
Percent Time Used:	76%
DBE:	Goal: 30% Design / 27% Construction Commitment: 30% Design / 27% Construction Workforce Goals: 10% Career Opportunity/ 10% Apprentice/ 35% EDA Outreach events conducted: 3 (CTA / Clark) Contract is on track to meet the DBE goal
Funding Source:	IDOT - Rebuild Illinois
Estimated Start Date/Estimated Length of Project:	NTP: 3/24/21 Project Duration 730 Days
Designer of Record:	STV Inc.
Construction Manager/General Contractor:	WSP/Clark Construction

Detailed Overview of Scope: Perform Design/Build Services to design and construct a new maintenance facility at the CTA's 63rd Lower Yard. This facility will be utilized to repair and maintain CTA's Non-Review Rail Mounted Equipment Fleet. This facility will include three maintenance and inspection tracks, a vehicle wash track with equipment, a paint booth, a welding room, a multipurpose lunchroom and classroom, locker and washroom facilities, supervision offices, and storage facilities.

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Project Title: Non-Revenue Rail Vehicle Facility

Comparable Projects:	
Customer Communication Need:	Customer impact will be minimal. Community outreach efforts are ongoing with local elected official and the neighboring school to discuss and minimize impacts during construction. Communications will continue with the surrounding residences and business regarding any upcoming impacts to the surrounding area during construction.
Impact on Accessibility:	The building will obtain City of Chicago Building permits, which included accessibility reviews.
Benefit to Community:	This facility will be design to compliment the surrounding neighborhood from an aesthetic perspective. It will also bring additional activity to the immediate neighborhood.
Benefit to System:	The ability to effectively and efficiently maintain the CTA's non-revenue fleet will result in equipment being in good working order and ready to perform necessary repairs and upkeep to the CTA system.
Impact on Customers:	While no direct impact to rail service, this facility will allow CTA Rail Maintenance to efficiently maintain the CTA's non-revenue fleet. This will result in equipment being in good working order and ready to perform necessary repairs and upkeep to the CTA system. This will allow CTA to maintain reliable service to our customers.



Construction Progress

Phase	Description	Status
Construction	 Design Phase Design Validation Intermediate Design Permitting – Underground Package Permitting – Building Package Final Design Construction Phase Building Foundations Grade Beams Pours Foundation Utility Work Electrical Ductbank Routing ComEd Switchgear Installation Precast Panel Erection Structural Steel Installation 	Complete Complete Complete Under Review Complete Complete In Progress In Progress In Progress In Progress In Progress In Progress Upcoming

Delay Explanation:

Cta Project Title: Non-Revenue Rail Vehicle Facility



New Horizon – Precast Panel Erection – North Wall

cta Project Title: Non-Revenue Rail Vehicle Facility



New Horizon – Precast Panel Erection – Loading Dock

Cta Project Title: Non-Revenue Rail Vehicle Facility



Precast Panel Erection – NW Corner

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Project Title: Traction Power Upgrades – Canal Tie House, Barry and Damen Substations

Justification of Need:

The CTA has identified additional traction power demands based on results from the Blue Line Load Flow study and determined that three (3) areas along the blue line O'Hare branch and Dearborn subway may experience problems with running the new fleet at the service levels proposed. To continue providing a reliable and safe service, it is necessary to build two (2) new traction power substations, one at Barry and the other at Damen with all their infrastructure support along with installing a new Tie Breaker house in the Dearborn subway. Also, the project includes the replacement of all traction power equipment at the Haymarket substation.

Priority of Project:	High
Total Project Budget:	\$113 Million
Construction Contract Value:	\$58 Million
Earned to Date:	22% (As of November 2022)
Percent Change Orders to Construction Contract:	0
Percent Time Used:	40% (As of November 2022)
DBE:	Goal: 25% Commitment: 25.71% Workforce Goals: 10% Career Opportunity/ 8% Apprentice/ 25% EDA Contract is on track to meet the DBE goal
Funding Source:	CTA Bonds / Rebuild Illinois
Estimated Start Date/Estimated Length of Project:	NTP: 10.20.21 Estimated Duration 900 days /Substantial Completion April 04, 2024
Designer of Record:	TYLin
Construction Manager/General Contractor:	WSP / John Burns Construction

Comparable Projects:	
Customer Communication Need:	Construction Activity Notices.
Impact on Accessibility:	N/A
Benefit to Community:	New buildings will enhance and will blend with the surrounding community and will benefit transit riders in the Blue Line with a safer and more reliable service.
Benefit to System:	The new traction power substation will increase service reliability to the Blue Line.
Impact on Customers:	Minor service disruptions during track access occurrences.

East Lake, Milwaukee & Illinois (ELMI) and Broadway substations

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Project Title: Traction Power Upgrades – Canal Tie House, Barry and Damen Substations

Construction Progress

Phase	Description	Status
Haymarket	Install new electrical equipment	Upcoming
Substation	Site Preparation and rebar installation for new equipment foundations	Ongoing
	Form/Pour new equipment foundations	Ongoing
	Install new courtyard masonry wall	Ongoing
Canal Tie-	Fabricate new Canal Tie-House Building	Ongoing
House	Fabricate new Canal Tie-House equipment	Ongoing
	Install new Canal Tie-House equipment	Upcoming
	Test and Commission new Canal Tie-House	Upcoming
	Install, form, and pour new Ductbank 2	Ongoing
Damen Substation	Build building interior, flooring, rooms, and finishes	Upcoming
oubstation	Fabricate new substation electrical equipment	Ongoing
	Site excavation and preparation	Ongoing
	Install foundation micropiles and grade beams	Ongoing
	Build building exterior walls and roof	Upcoming
Barry	Obtain foundations permit	Ongoing
Substation	Obtain building permit	Ongoing
	 Fabricate new substation electrical equipment 	Ongoing
	Mobilization	Ongoing
	Demolition of existing building	Upcoming 16





Duct Bank Concrete Pour AC Feeder Damen



Install New LED Fixtures Canal



Foundation Wall Concrete Pour Haymarket



Justification of Need:	The RPM Phase One Project is greatly needed in order to expand capacity on CTA's most utilized rail line and to replace aging infrastructure.	
Priority of Project:	High	
Total Project Budget:	\$ 2.1 Billion (excludes Transit TIF interest payments)	
Construction Contract Value:	Original - \$1,272,275,929 Current - \$1,268,818,121	
Earned to Date:	57.5%	
Percent Change Orders to Construction Contract:	-0.27%	
Percent Time Used:	68%	
DBE:	Design: Goal: 20% / Commitment: 20.64% Construction Goal: 20% / Commitment: 20% Workforce Goals: 10% WIOA / 15% Apprentice / 35% EDA Contractor is on track to meet the second secon	ne DBE goal
Funding Source:	CTA Financing, FTA Core Capacity Grant, CMAQ, TIFs	
NTP / Construction Start / Estimated Completion:	February 8, 2019 / October 2019 / 2025	
Design-Build Contractor:	Walsh-Flour Design-Build Team	
Owners Representative:	Elevated Solutions Partners	

Detailed Overview of Scope: RPM Phase One consists of the following elements that will allow CTA to expand service along the Red and Purple lines:

- Lawrence to Bryn Mawr Modernization (LBMM) complete reconstruction and addition of ADA accessibility at four Red Line stations (Lawrence, Argyle, Berwyn, and Bryn Mawr) and reconstruction of 6 miles of track, structures, and viaducts from Leland Ave. to Ardmore Ave.
- Red-Purple Bypass (RPB) Construction of a grade-separated bypass for the Brown Line at Clark Junction, just north of Belmont Ave. Includes realignment and
 reconstruction of 1.4 miles of mainline tracks and structure between Belmont station and south of Cornelia Ave.
- Corridor Signal Improvements (CSI) Installation of new higher-capacity signal system on 23 miles of track between Belmont and Howard stations.



Phase	Description	Status
Administrative / Design: Construction:	 Continued submittal/revisions of required management plans Continued Design Development in support of Red-Purple Bypass, Lawrence to Bryn Mawr Modernization, and Corridor Signal Improvements Red-Purple Bypass (RPB). Ravenswood structure rehabilitation Clark Relay House electrical distribution equipment installation Clark Relay House electrical distribution equipment installation Clark Relay House electrical distribution equipment installation Construction of concrete columns and caps Pre-cast beam and structural steel installation North Mainline Stage 2 closed deck installation Construction of signal and traction power concrete ductbanks and risers Removal of decommissioned signal and communications cabling Lawrence to Bryn Mawr Modernization Pre-cast Segment fabrication Pre-cast Segment fabrication Bryn Mawr and Argyle Temp Station (Stage B) Foundations DF Track construction Winona Relay House construction Transition Bridge erection at Ardmore Rail flash butt welding Noise Wall Barrier Erection Corridor Signal Improvements (CSI) Cable bracket and fiber slack enclosure installation Loyola to Jarvis Messenger installation on cable brackets for signal/comm cabling near Wilson Station Installation of stable hangers inside and below the LBMM structure 	Ongoing Ongoing
Delay Explanation:	 Factory testing of Clark Junction Relay House 	Complete



Red-Purple Bypass



North Main Line Concrete Deck Pour



Red-Purple Bypass



Precast Beam Installation



Steel Beam Installation



Red-Purple Bypass



North Main New Track Superstructure



Lawrence to Bryn Mawr Modernization



Bryn Mawr Temporary Station Foundation Work



Lawrence to Bryn Mawr Modernization



Winona Relay House Interior Construction



Lawrence to Bryn Mawr Modernization



Track Installation



Lawrence to Bryn Mawr Modernization



Segment Erection



Lawrence to Bryn Mawr Modernization



Santa on the Gantry

	Outreach type	Major Activities	Timing
Community	Foundstooth Saloon in Lakeview East	 Weekly Red-Purple Bypass Project updates for 44th ward Lawrence to Bryn Mawr project updates for 48th ward Meeting with Houndstooth Saloon owners about Open for Business program and promotion during reconstruction of Red & Purple elevated structure in Lakeview Monthly "Virtual Office" answering constituent questions 	Weekly Bi-weekly Dec. 7 Dec. 13
Workforce & SBE/DBE	CHICAGO COOK WORKFORCE PARTNERSHIP A proud partner of the AmericanJobCenter network	 Monthly DBE/Workforce Outreach & Compliance Meeting DBE and Workforce Numbers as of 12/31/2022 Dollars Awarded To Date: \$236,053,567 Unique DBE Firms To Date: 88 Unique Firms New to CTA: 34 Total Labor Hours Produced: 1,079,250 Total Dollars Earned: \$62,827,447 Jobs created to date (construction trade labor on the design-build team): 1,754 individuals 	Ongoing