



### **Todays Presentation**

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



#### **Justification of Need:**

Medium
\$67,316,000.00
19%
2.7%
89%
MBE: 30% WBE: 8% VBE: 0.96%
TIF/CMAQ
540 days after NTP
Perkins and Will
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**

Phase	Description	Status
Construction	<ul> <li>Installation of H-Piles &amp; ERS at bent 2218</li> <li>Install sheet piling for new retaining wall</li> </ul>	Completed Completed
	<ul> <li>Continue station house caisson caps and grade beams</li> <li>Install Shoring towers/Demo columns and pier footings at bent 2218</li> <li>Install Platform Steel</li> </ul>	On-Going On-Going Planned Q2

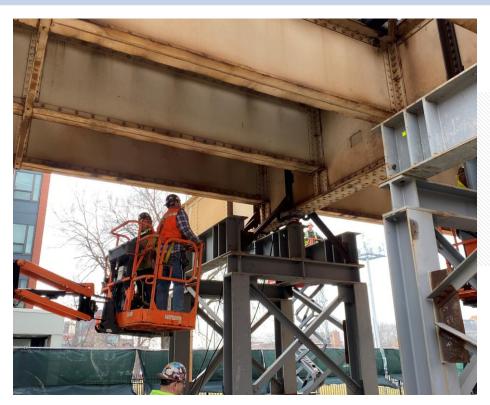




#### **Damen Station**

Steel Shoring
Towers for
Supporting
Elevated
Structure

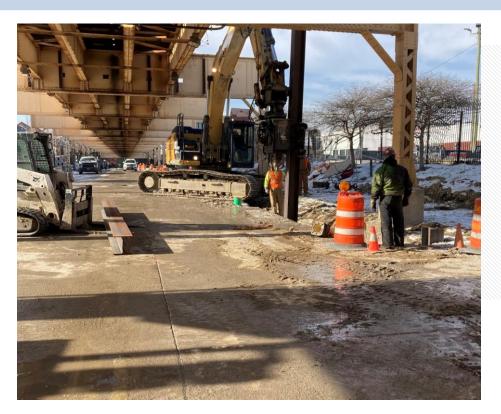




#### **Damen Station**

Transferring loads to temporary shoring towers at bent 2218





Damen Station House

Installing
H-Piles for ERS
at Existing
Columns



#### **Justification of Need:**

Priority of Project:	Medium
Total Project Budget:	\$65,902,503
Construction Contract Value:	\$42,676,222
Earned to Date:	31% (thru October 2022)
Percent Change Orders to Construction Contract:	4% (Change Order #1 - \$1,694,221 - Executed October 4th, 2022)
Percent Time Used:	77%
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 803 Days – Change Order 1
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 63<sup>rd</sup> 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.



**Comparable Projects:** 

## **Project Title:** Non-Revenue Rail Vehicle Facility

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.
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.
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.
Impact on Accessibility:	The building will obtain City of Chicago Building permits, which included accessibility reviews.
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.

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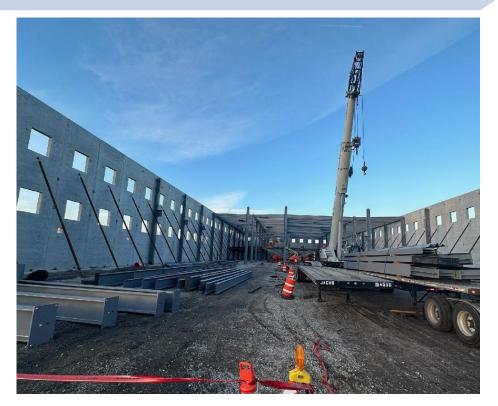


#### **Construction Progress**

Phase	Description	Status
Construction	<ul> <li>Design Phase</li> <li>Design Package 3 – W48 Waterline Permit</li> <li>Design Package 4 – 61<sup>st</sup> Street Parking Lot</li> <li>Final Design</li> </ul>	In-Progress In-Progress Complete
	Construction Phase     ComEd Switchgear Installation     Slab on Grade Utility Installation     Electrical Ductbank Routing     Precast Panel Erection     Structural Steel Installation     Roof Decking Installation     Roof Membrane Installation	Complete In Progress In Progress In-Progress Upcoming Upcoming

#### **Delay Explanation:**





The Beginning of the Steel Erection

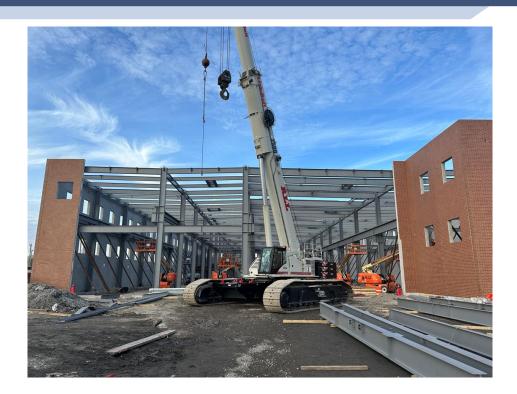






New Horizon – Structural Steel Erection and Tie-In





**Final Sequences of Steel Erection** 



Justification of Need:

Priority of Project:

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.

\$113 Million
\$58 Million
22.5% (As of December 2022)
0
45% (As of December 2022)
Goal: 25% Commitment: 25.71% Workforce Goals: 10% Career Opportunity/ 8% Apprentice/ 25% EDA Contract is on track to meet the DBE goal
CTA Bonds / Rebuild Illinois
NTP: 10.20.21 Estimated Duration 900 days /Substantial Completion April 04, 2024
TYLin
WSP / John Burns Construction

High



Impact on Customers:	Minor service disruptions during track access occurrences.
Benefit to System:	The new traction power substation will increase service reliability to the Blue Line.
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.
Impact on Accessibility:	N/A
Customer Communication Need:	Construction Activity Notices.

#### **Comparable Projects:**

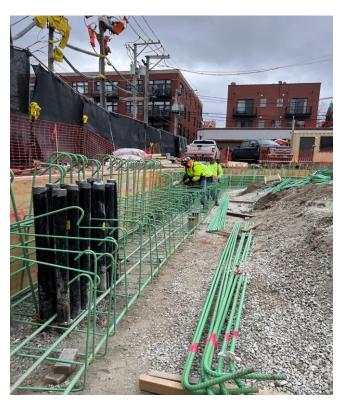
East Lake, Milwaukee & Illinois (ELMI) and Broadway substations



### **Construction Progress**

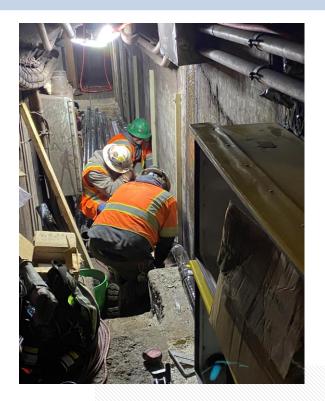
Phase	Description	Status
Haymarket Substation	<ul> <li>Install new electrical equipment</li> <li>Site Preparation and rebar installation for new equipment foundations</li> <li>Form/Pour new equipment foundations</li> </ul>	Upcoming Completed
	Install new courtyard masonry wall	Completed Completed
Canal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

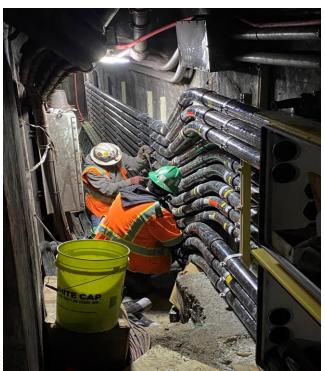






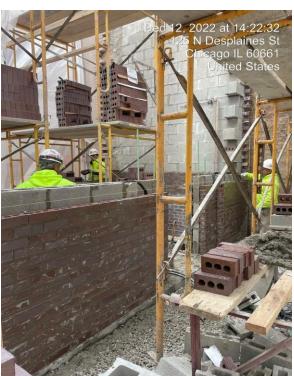












**Building East Wall at Haymarket** 











Adjacent Property Demolition at Barry



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:	59%	
Percent Change Orders to Construction Contract:	-0.27%	
Percent Time Used:	69%	
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 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:	<ul> <li>Continued submittal/revisions of required management plans</li> <li>Continued Design Development in support of Red-Purple Bypass, Lawrence to Bryn Mawr Modernization, and Corridor Signal Improvements</li> <li>Red-Purple Bypass (RPB).         <ul> <li>Ravenswood structure rehabilitation</li> <li>Clark Relay House installation</li> <li>Construction of concrete columns and caps</li> <li>Pre-cast beam and structural steel installation</li> <li>North Mainline Stage 2 closed track deck installation</li> <li>Removal of decommissioned signal and communications cabling</li> </ul> </li> </ul> <li>Lawrence to Bryn Mawr Modernization         <ul> <li>Pre-cast Segment fabrication</li> <li>Pre-cast Segment erection Stage A</li> <li>DF Track construction</li> </ul> </li>	Ongoing
Delay Explanation:	<ul> <li>Noise Wall Barrier Erection</li> <li>Bryn Mawr and Argyle Temp Station (Stage B)</li> <li>Winona Relay House construction</li> <li>Corridor Signal Improvements (CSI)</li> <li>Cable bracket and fiber slack enclosure installation Loyola to Jarvis</li> <li>Messenger installation on cable brackets north of Thorndale</li> <li>Installation of snake tray and brackets for signal/comm cabling near Wilson Station</li> <li>Installation of hangers and cabling inside and below the LBMM structure</li> </ul>	Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing



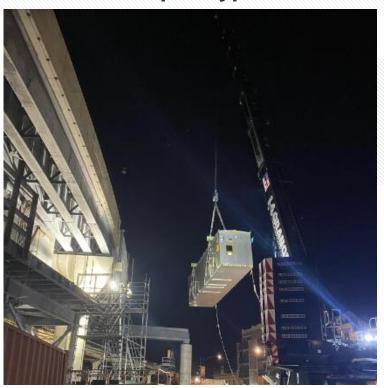
### **Red-Purple Bypass**



North Main Line Column Cap Concrete Pour



### **Red-Purple Bypass**



Clark Relay House Lift over Bypass



### **Red-Purple Bypass**



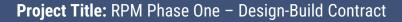
Clark Relay House Installation



#### **Lawrence to Bryn Mawr Modernization**

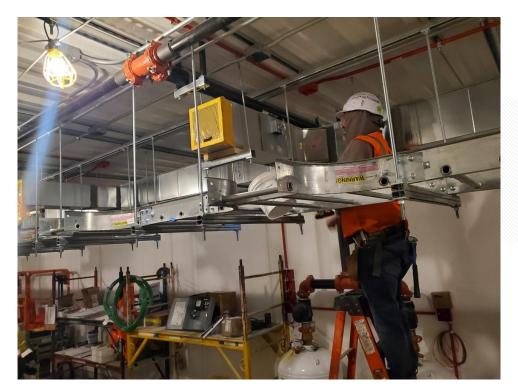


Bryn Mawr
Temporary
Station
Foundation Work





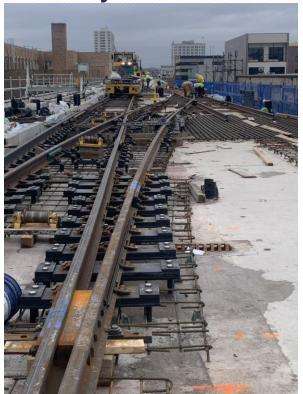
### **Lawrence to Bryn Mawr Modernization**



Winona Relay House Interior Construction



### **Lawrence to Bryn Mawr Modernization**



## Special Track Work Installation



### **Lawrence to Bryn Mawr Modernization**



Final Segment Erection Stage A



	Outreach type	Major Activities	Timing
Community	Award-winning Bryn Mawr temporary station	Weekly Red-Purple Bypass Project updates for 44th ward     Lawrence to Bryn Mawr project updates for 48th ward     Press release: CTA Red Line temporary station at Bryn Mawr wins architectural award, the International Architecture MasterPrize award in the "Transportation" category     Buena Vista Association Board Meeting – RPM Update     Press release: CTA announces "Elevating Futures Scholarship" application period has opened for students seeking four-year degrees in construction and engineering     January monthly "Virtual Office" Q&A with constituents	Weekly Bi-weekly Dec. 13 Dec. 13 Jan. 10
Workforce & SBE/DBE	CHICAGO COOK WORKFORCE PARTNERSHIP A proud partner of the American obcenter network  HIRE 360	Monthly DBE/Workforce Outreach & Compliance Meeting      DBE and Workforce Numbers as of 1/31/2023     Dollars Awarded To Date: \$237,609,882	Ongoing