



#### **Todays Presentation**

- Traction Power Upgrades Canal Tie House, Barry and Damen Substations
- Western Brown line Station Improvements
- O'Hare Line Harlem Station Bus Bridge Improvements
- Racine Station ADA & Traction Power Improvement Project
- Refresh & Renew Project
- Red and Purple Modernization Project



High

#### **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.

Total Project Budget:	\$122.8 Million
Construction Contract Value:	\$67.9 Million
Earned to Date:	88% (As of October 2024)
Percent Change Orders to Construction Contract:	16.7%
Percent Time Used:	110.5% (As of October 2024)
DBE:	Goal: 25% Commitment: 25.3% 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: October 20, 2021, Estimated Duration 1020 days/Substantial Completion August 5, 2024
Designer of Record:	TYLin
Construction Manager/General Contractor:	WSP / John Burns Construction



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

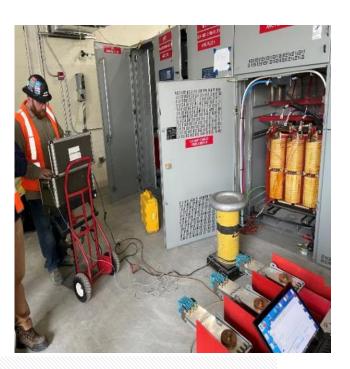


#### **Construction Progress**

Phase	Description	Status
Haymarket Substation	<ul><li> Equipment testing and commissioning</li><li> Parking Lot Restoration</li></ul>	Ongoing Ongoing
Canal Tie- House	<ul> <li>Commission Tie-House</li> <li>Interior Tie-House Build-Out</li> <li>Cable connections to Tie-House</li> </ul>	Ongoing Ongoing Ongoing
Damen Substation	<ul> <li>Installation of Traction Power Equipment</li> <li>Equipment Testing and Commissioning</li> <li>Build building interior, flooring, rooms and finishes</li> </ul>	Completed Ongoing Ongoing
Barry Substation	<ul> <li>Installing substation electrical equipment.</li> <li>Build exterior walls and roof.</li> <li>Build building interior, flooring, rooms and finishes</li> </ul>	Upcoming Ongoing Upcoming
Belmont Crossover	Punchlist work.	Ongoing

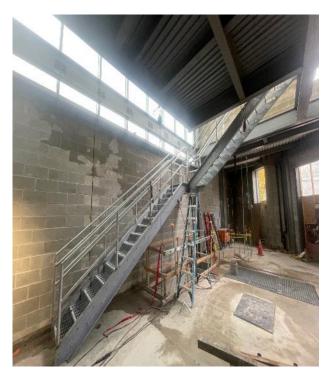






**Equipment Testing at Damen** 







**Stair Installation at Barry** 







Cont. Curtainwall Installation and Restoration at Barry







**Short-Circuit Testing at Haymarket** 



Estimated Start Date/Estimated Length of Project:

Construction Manager/General Contractor:

Designer of Record:

#### **Project Title: Western Brown Line Station Improvements**

Improvements to Ravenswood Western Station are necessary to bring the station into compliance with current provisions of the Americans with Disabilities Act (ADA), adapt to redeveloped

GC NTP1: May 11, 2023; NTP2: 8/6/24. Substantial Completion: January 13, 2026 (NTP2 + 525 days)

Justification of Need:	adjacent storefronts, improve security, and extend the useful life of the station through replacement of deteriorated site, building, and platform components. This project is being delivered by a progressive design build delivery method, which is advantageous for both schedule and the design to budget requirement.
Priority of Project:	Medium
Total Project Budget:	\$30.0 M
Construction Contract Value:	\$19.0 M
Earned to Date:	\$7.7 M
Percent Change Orders to Construction Contract:	0
Percent Time Used:	24%
DBE:	DBE goal: 30%.  DBE Firms: American Survey & Engineering, PC, Facet Engineering, GSG Consultants. Inc., Quigg Engineering.
Funding Sources:	Chicago Tax Increment Funding, Federal 2022, Federal 2023, CTA bonds

CDM Smith

CM: AECOM. GC: FH Paschen.



### cta Project Title: Western Brown Line Station Improvements

Impact on Customers:	CTA customers may be redirected to use alternate station entrance. Platform closures and back rides will be necessary. The work will also require some temporary bus reroutes and lane closures on Western and Lincoln.
Benefit to System:	State of good repair improvements to the building envelope, platform, platform guardrails and canopy, and interior finishes. New customer assistant booth, reconstructed operator bathroom facility.
Benefit to Community:	Increased station accessibility, improved safety through renovated sidewalks, walkway pavements, lighting, cameras, and signage. Overall improved appearance as a result of painting.
Impact on Accessibility:	New ADA-compliant curbs, bus turnaround islands, replacement of elevator cabs and sidewalks for improved accessibility.
Customer Communication Need:	Construction Activity Notices, coordination with Alderman, press releases.
Comparable Projects:	

Quincy Loop Station Upgrade



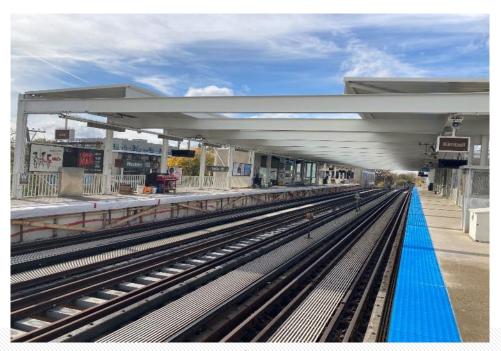
# **Project Title: Western Brown Line Station Improvements**

#### **Construction Progress**

Phase	Description	Status
Construction	Stage 1 - Advance Package	
	Cleaning and painting of track structure	Complete
	Cleaning and painting of platform guardrails and canopy	Complete
	Remediation of pigeon waste on station roof	Complete
	Platform edge repair Inbound	Complete
	Platform concrete spalling repair	Complete
	Stage 2 Construction	
	Inbound Platform Nosing/Tactile edging	Complete
	Replace Steel Flange Angles	On-going
	Permitting	On-going
	Building Envelope (masonry repairs, storefront replacement)	Q2 '25
	Electrical Upgrade	Q3 '25
	Elevator Cab Replacement	Q4 '25
Design	Stage 1 Design – 100%	Complete
	Stage 2 Design – 90%	Complete
	Stage 2 Design – 100%	Under Review



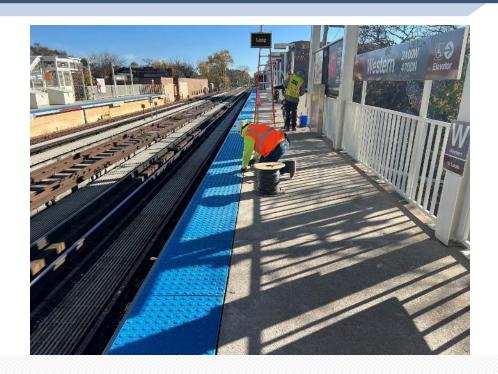
### cta Project Title: Western Brown Line Station Improvements



**Canopy After Painting** 



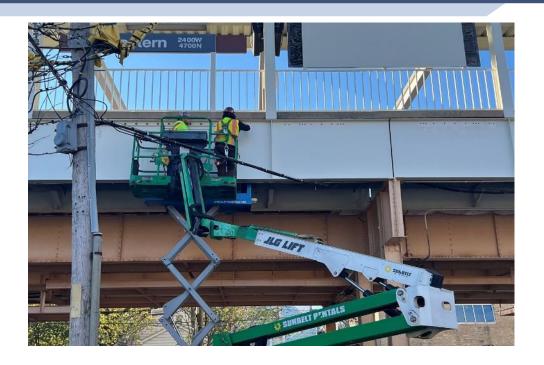
#### **Project Title: Western Brown Line Station Improvements**



**Inbound Platform – Caulking New Tactile Edging** 



#### **Project Title: Western Brown Line Station Improvements**



Ironworkers Replacing Beam Flange Angles Behind Platform



Justification of Need:

The condition of the Harlem Station bus bridge was initially identified as an infrastructure need in 2013. At that time, CTA noted significant deterioration to the concrete deck, concrete piers, and structural steel support elements due to salt corrosion and water infiltration. More recently, critical defects caused by concrete deck expansion joint failure have been identified in the south pier. The bridge needs to be replaced before it becomes a safety hazard and has to be taken out of service

	taken out of service.
Priority of Project:	Medium
Total Project Budget:	\$40.0 M
Construction Contract Value:	\$20.4 M
Earned to Date:	\$7.9M
Percent Change Orders to Construction Contract:	0
Percent Time Used:	84%
DBE:	DBE goal: 25%.  DBE Firms: MW Powell, Highway Safety Corp., Argo Construction LLC, Vision Painting, Alpine Demolition, W.E.B. Production & Fabricating, AC Iron LLC, S & J Construction, Livewire Electrical Systems.
Funding Sources:	Rebuild Illinois, Federal 2020, Federal 2016, Surface Transportation Program (CMAP)s
Estimated Start Date/Estimated Length of Project:	GC NTP: September 5, 2023. Substantial Completion: March 8, 2025 (NTP + 550 days)
Designer of Record:	HNTB
Construction Manager/General Contractor:	CM: TranSystems/TY Lin JV. GC: John Burns Construction Company.



Impact on Customers:	Minor changes in bus service and Park & Ride access for those who use the Harlem Blue Line Station on the O'Hare Branch. Rail service will not be impacted.
Benefit to System:	New bridge superstructure and interface between bridge and station, new concrete approaches, bridge deck, ADA-compliant curbs and sidewalks, new canopy on bridge. New bus operator bathroom facility, painting, improved drainage.
Benefit to Community:	Replacement of the bridge before it becomes unsafe will help ensure continuity of service on bus routes out of the O'Hare Line Harlem Station.
Impact on Accessibility:	New ADA-compliant curbs and sidewalks for improved accessibility.
Customer Communication Need:	Construction Activity Notices, coordination with Alderman, press releases.

#### **Comparable Projects:**

Montrose Bridge Replacement (IDOT).

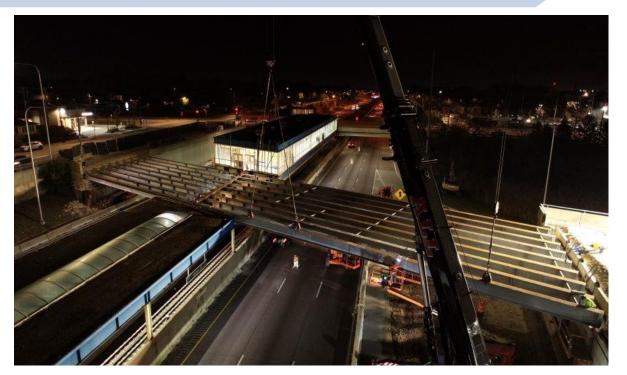


### cta Project Title: O'Hare Line - Harlem Station Bus **Bridge Improvements**

#### **Construction Progress**

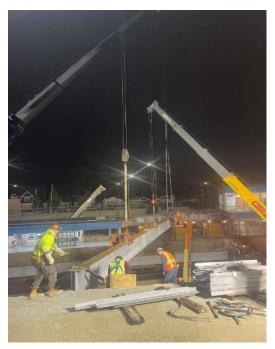
Phase	Description	Status	
Construction			
	Set Bridge Bearings Abutments and Center Pier	Completed	
	Install and Detail New Structural Bridge Steel	Completed	
	Set Deck Formwork and install Rebar	On-Going	
	Pour New Bridge Deck	Planned mid December	
	Pour Parapet Wall and Sidewalk	Planned Spring '25	
	Install below bridge lighting	Planned Spring '25	
	Install Bridge Canopy Steel/Roofing	Planned Late Spring '25	
	Install Masonry for Bus Washroom	Planned Late Spring '25	





Lifting Last Beam over Inbound I-90 at Night



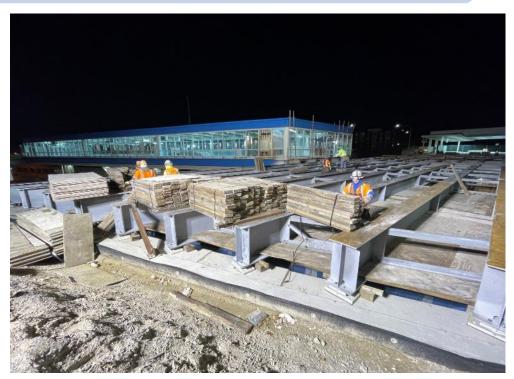


Lifting Steel Beams over SB



Lifting Steel Beams over NB





**Installing Protective Shielding Between New Beams** 





**Completed Steel Beam Installation** 



Justification of Need:	The existing Racine station is not accessible, and the ADA Improvements will add an elevator, and provide an ADA compliant ramp with adequate clearances for wheelchairs and mobility devices. In addition, to accommodate growth in ridership and maintain reliable service, the CTA procured newer generations of rail car fleets, which required traction power improvements consisting of constructing a new Morgan substation as well as upgrading existing traction power equipment within the Hermitage substation to meet higher power demands on the Forest Park branch of the Blueline.
Priority of Project:	High
Total Project Budget:	\$106,217,468
Construction Contract Value:	\$75,400,000
Earned to Date:	43% (thru October 2024)
Percent Change Orders to Construction Contract:	0%
Percent Time Used:	58% (thru October 2024)
DBE:	Goal: 25% Commitment: 25% Workforce Goals: 10% Career Opportunity, 15% Apprentice, 25% EDA The contract is on track to meet the DBE goal
Funding Source:	IDOT - Rebuild Illinois
Estimated Start Date/Estimated Length of Project:	NTP: 5/12/2023, Project Duration: 925 days (NTP through Substantial Completion)
Designer of Record:	HNTB
Construction Manager/General Contractor:	Congress Corridor Partners, a JV between (WSP/Ardmore) / F.H. Paschen, S.N. Nielsen & Associates



Impact on Customers:	<ul> <li>Minor service disruptions during 54hr weekend TAOs.</li> <li>No rail service between IMD and UIC-Halsted stations during weekend linecuts.</li> <li>The Racine station will be OOS during the weekend linecuts.</li> <li>No access to Racine stationhouse from Racine street until completely rebuild, the Loomis stationhouse will remain in service during this time.</li> <li>Local bus shuttles will be provided during weekend linecuts.</li> </ul>	
Benefit to System:	<ul> <li>The project will make the Racine station fully accessible.</li> <li>The project will add more power to boost reliability and meet service demands.</li> <li>The project will reduce the Racine station and Hermitage substation maintenance needs.</li> </ul>	
Benefit to Community:	When completed, the project is expected to accommodate all the accessibility needs for riders traveling through the Racine station utilizing various mobility devices.	
Impact on Accessibility:	• YES	
Customer Communication Need:	<ul> <li>GCR outreach with surrounding stakeholders.</li> <li>Construction activity notices will be distributed as needed.</li> <li>Advanced service disruption signs and posters will be installed as needed.</li> </ul>	

#### **Comparable Projects:**

The Illinois Medical District (IMD) Station Improvements



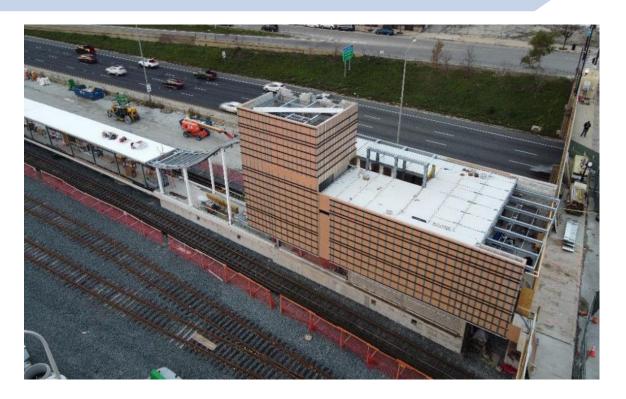
#### **Construction Progress**

Phase	Description	Status
Construction	Racine Stationhouse Entrance:  Structure & shell Main stairs and elevator Bridge level interiors Electrical and mechanical rooms Electrical and sanitary underground services Racine Platform New Concourse Extension: Structure & shell MEP and communication systems Racine Platform and Canopy: Canopy demolition and restoration MEP and communication systems Racine Platform and Canopy: Canopy demolition and restoration MEP and communication systems Loomis Stationhouse Entrance: Demolition of existing stationhouse, ramp and columns Structure & Shell Bridge Level Interiors Electrical and Mechanical Rooms Electrical and Mechanical Rooms Electrical and Sanitary Underground Services Loomis New ADA Ramp: Installation of new ADA ramp and columns Installation of new armp roofing system and MEP Morgan Substation: Structure & shell Bridge (1*) level and equipment (2**d) level interiors Electrical and sanitary underground services Traction power equipment delivery, installation, testing and commissioning Hermitage Substation: Removal of existing traction power equipment Traction power equipment delivery, installation, testing and commissioning	Ongoing Ongoing Ongoing Ongoing Planned Ongoing Ongoing Ongoing Ongoing Planned

#### **Delay Explanation:**

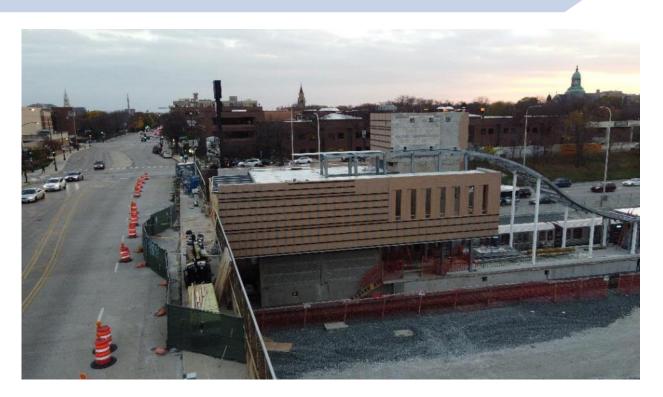
N/A





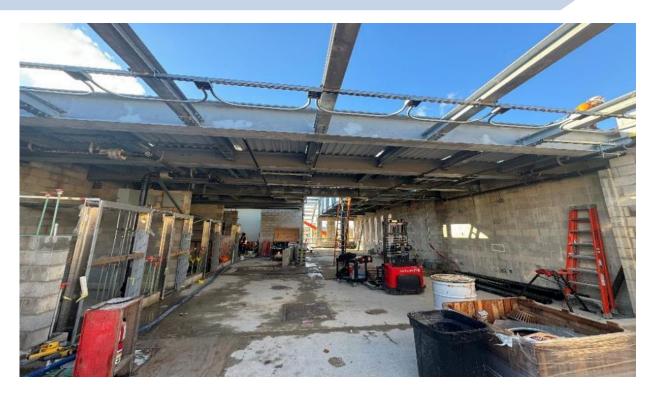
**Racine Stationhouse Looking North** 





**Racine Stationhouse Looking South** 



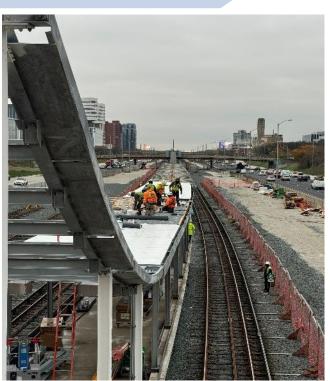


**Racine Stationhouse Interior View** 



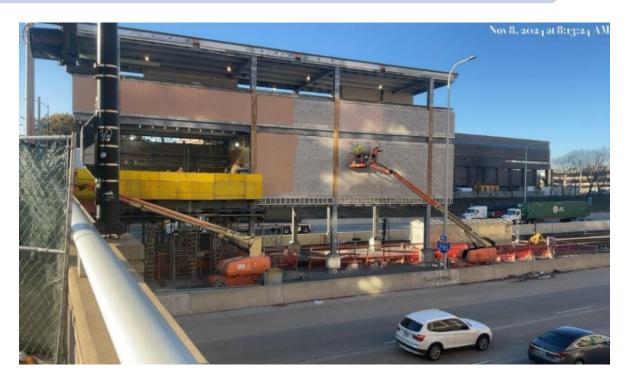


**Racine Concourse Extension Conduits** 



**Racine Concourse Extension Roofing** 





**Morgan Substation North Wall** 





**Morgan Substation Bridge Level View** 



Justification of Need:	The Refreshed & Renewed Program is a CTA Facilities Maintenance implemented plan to promote safety, security and longevity to all CTA Facilities including, but not limited to: Rail Stations and Platforms, Bus Garages and Rail Shops across the system. The Refreshed & Renewed Program performs major improvement work at these transit operations facilities for both the customer and the internal needs of the Authority.
Priority of Project:	Medium
Total Project Budget:	\$6,500,000
Expended to Date:	\$2,069,745
Used last Month:	\$158,024
Funding Source:	Various
Estimated Start Date/Estimated Length of Project:	January 2021 to December 31, 2024
Contractor	CTA Forces
4	

29 Rail Stations and 14 Bus-turn-arounds will receive lighting upgrades, painting and deep cleaning as part of this program for the current year.

#### 29 Stations and 14 Bus-turn-arounds will have a detailed Scope of work which includes:

- · Maintaining Cleanliness throughout public, as well as back-of-house areas
- Ensuring stations are graffiti free;
- · Re-painting painted surfaces;
- Maintaining pathways of ingress and egress are clear of obstruction;
- · LED lighting conversions and component;
- · Removing obstructions from windows and store front systems that may impede natural light and safe viewing points.
- · Address and repair any unsafe defects such as spalling concrete and rotted wooden platforms;
- Replacing outdated and damaged signage;
- Maintaining a warm/cool working environment.



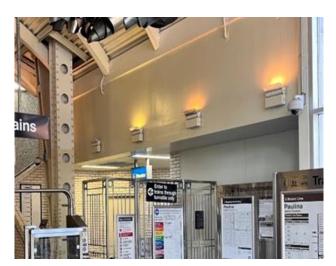
Department	Description	Status
Facility Maintenance	Rail Stations Full Program Scope 29 Stations (28 of 29 Completed)  Cicero-Pink  Kedzie-Pink  Ridgeland-Green  Sedgwick-Brown  Paulina-Brown  Davis  Oakton/Skokie-Yellow  Granville-Red  Grand-Red	Completed Completed Completed Completed Completed Completed Completed Completed In-Progress
	Bus Turnaround Full Program (13 of 14 Completed)  Grand/Streeter (Navy Pier)  47th/Lake Park  Austin/Jackson  Division/Austin  Grand/Nordica  Grand/Latrobe	Completed Completed Completed Completed Completed In-Progress

#### **Delay Explanation:**

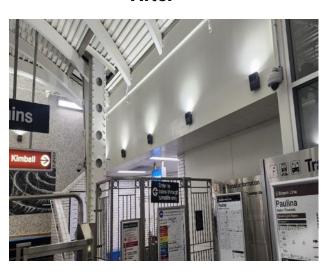
N/A



Before



**After** 

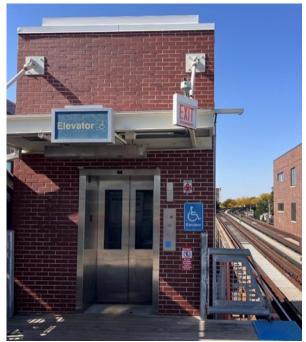


Paulina/Brown - LED lighting upgrades & Painting



**Before** 

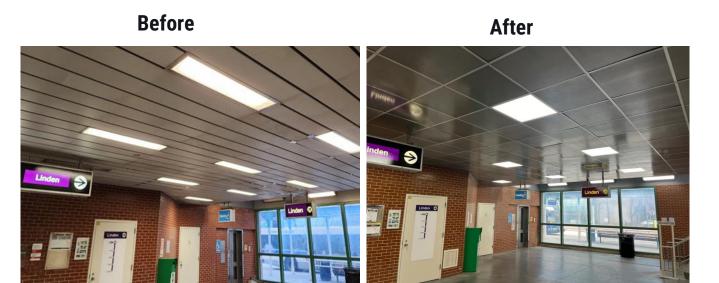






Paulina/Brown - Painting, Signage replacements & Safety Enhancements





Davis/Purple – Compete ceiling replacement & LED fixture replacement









Oakton-Skokie/Yellow - Kiosk Floor Replacement







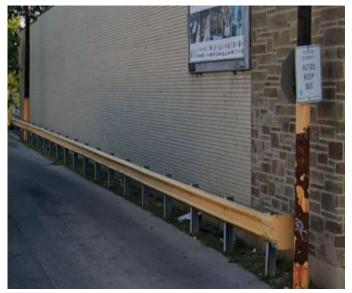
**After** 

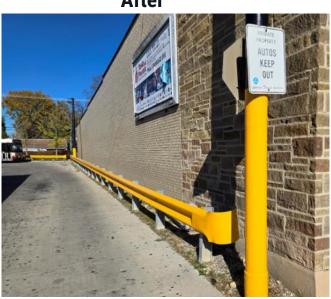


Oakton-Skokie/Yellow – LED lighting upgrades





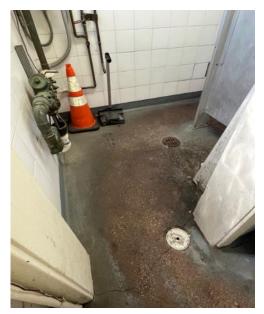




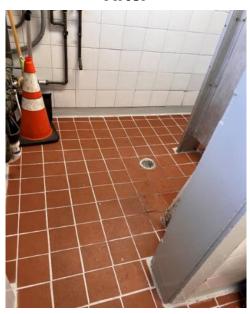
**Grand/Nordica BTA – Painting** 



**Before** 



**After** 



Grand/Nordica BTA - Floor Tile Installation



Justification of Need:	The RPM Phase One Project is greatly needed in order to expand cato replace aging infrastructure.	apacity on CTA's most utilized rail line and
Priority of Project:	High	
Total Project Budget:	\$ 2.1 Billion (excludes Transit TIF interest payments)	
Construction Contract Value:	Original - \$1,272,275,929    Current - \$1,383,992,301	
Earned to Date:	81.7%	
Percent Change Orders to Construction Contract:	8.8%	
Percent Time Used:	85.2%	
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-Fluor 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 /	Continued submittal/revisions of required management plans	Ongoing
Design:	Continued Design Development in support of Signal Improvements	Ongoing
	Red-Purple Bypass (RPB)	
	<ul> <li>Civil At-Grade Improvements – drainage installation and sewer lining, pavement restoration</li> </ul>	Ongoing
Construction:	<ul> <li>North Mainline Stage 3 track work and plinth installation</li> </ul>	Ongoing
	<ul> <li>Ravenswood Stage 3 track work</li> </ul>	Ongoing
	<ul> <li>Installation of noisewall for NM4</li> </ul>	Ongoing
	Installation of wall for Clark Substation	Ongoing
	<ul> <li>Installation of utilities for Vautravers Building</li> </ul>	Complete
	<ul> <li>Continue installation of traction power cable and other traction power materials for NM3/NM4</li> </ul>	Ongoing
	<ul> <li>Began installation of ANR rail and Contact rail along NM#/NM4 at RPB</li> </ul>	Started
	Lawrence to Bryn Mawr Modernization	
	Concrete substructure work and segmental erection	Ongoing
	Bryn Mawr and Hollywood Aux Station	
	Structural building work  Platform assessed asset leading to the second se	Ongoing
	Platform precast panel installation, canopy erection  Building Finishese.	Ongoing Started
	Building Finishes     Berwyn Station	Started
	Structural building work	Ongoing
	Platform precast panels	Ongoing
	<ul><li>Platform canopy</li></ul>	Started
	- Argyle Station	Starteu
	Foundation work	Complete
	Platform electrical	Complete
	Structural building work	Started
	- Lawrence Station	Glariod
	Foundation work	Ongoing
	Platform electrical, steel detailing	Ongoing
	<ul> <li>Trackwork – plinths</li> </ul>	Ongoing
	Corridor Signal Improvements (CSI)	
	<ul> <li>Continued signal system testing monitoring at Clark, Kenmore, Barry and Lakewood-Seminary Relay Houses</li> </ul>	Ongoing
	<ul> <li>Termination of signal cable and junction boxes along track 4 near Jarvis</li> </ul>	Complete
	<ul> <li>Continued installation of impedance bond brackets and prep for cabling between Morse and Thorndale</li> </ul>	Complete
	<ul> <li>Installation of signal and communications fiber optic cabling in the RPB area</li> </ul>	Ongoing
	<ul> <li>Completed DGTrack migration events at Loyola Audio House</li> </ul>	Complete
	<ul> <li>Began DGTrack migrations at Thorndale Relay House</li> </ul>	Ongoing
	<ul> <li>Installation of fiberglass decking on signal equipment platforms between Montrose and Cornelia</li> </ul>	Ongoing
Delay		



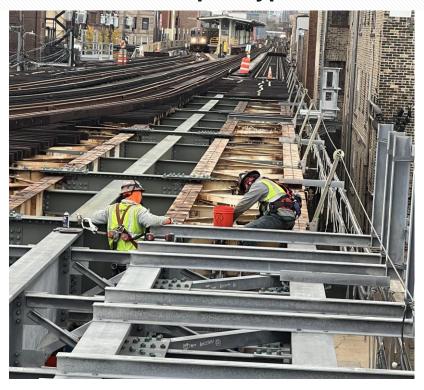
#### **Red-Purple Bypass**



North Main Line Noise wall Installation



#### **Red-Purple Bypass**



North Main Line
Open Deck Steel
Rehab near
Addison Station



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



Bryn Mawr Main Station Entrance



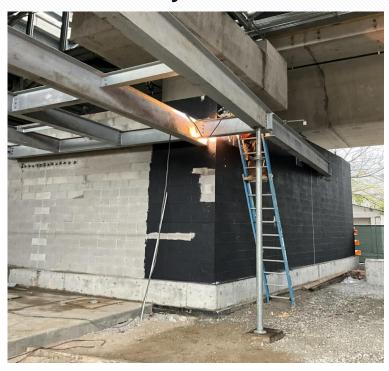
#### **Lawrence to Bryn Mawr Modernization**



Bryn Mawr Station Hollywood Terracotta wall panel installation



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



Berwyn Station Welding Work



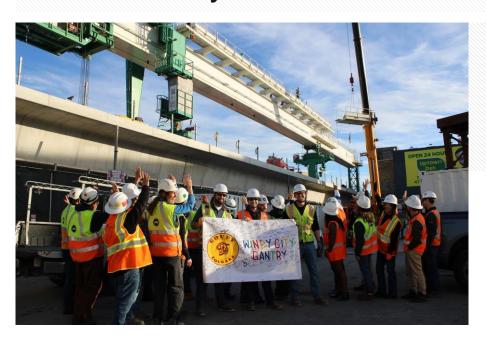
#### **Lawrence to Bryn Mawr Modernization**



Argyle Station Windbreak Installation



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



# Final Segmental Span Installation



CTA held a gantry "farewell" with Goudy Elementary students who named the

"Windy City Gantry" three years ago.

#### Project Title: RPM Phase One - Design-Build Contract

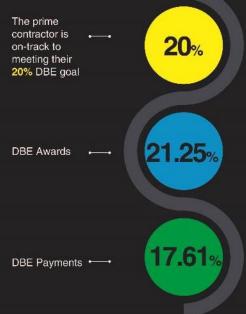
#### **Community Outreach Major Activities Timing** Weekly Red-Purple Bypass Project updates for 44th Weekly ward Loop L. Lawrence to Bryn Mawr project updates for 46th, 48th Bi-weekly wards Kenmore neighbors – Red Line update Nov. 5 CTA participates annually in the Argyle Lunar New Year event by providing paradegoers with the chance to ride the Monthly virtual office hours (November) the CTA mini-train in the parade. Nov. 12 Lakeview East Chamber of Commerce - project update Uptown United -- 2025 Lunar New Year parade Nov. 19 planning kickoff and CTA participation Nov 22 Windy City Gantry banner event with Goudy Elementary



# RPM Phase One Design-Build DBE Attainment Through October 31, 2024









# RPM Phase One Design-Build Workforce Attainment Through October 31, 2024



RPM Phase I has created 2,510 construction trade labor jobs on the design-build team



# **RPM Phase I Workforce Goals** Goals **Attainment** 10 Workforce Innovation & Opportunity Act (WIOA) 12.52 31.80

Economically Disadvantaged Area (EDA)



#### **November 2024 Outreach Events**

•	National	Association of Minority Contractors	,
	(NAMC)	Membership Meeting	

November 7

 Driving Small Business the Distance: Market Research November 20

Illinois Tollway Government Contracting Event

November 8

HACIA Transportation Panel

November 21

· Red Line Extension (RLE) Certification Drive

November 13

November 13

Hispanic American Construction Industry Association (HACIA) Membership Meeting

Adult Pre-Apprenticeship Fair – Daley College

November 13

 U.S. Minority Contractors Association (USMCA) 33<sup>rd</sup> Anniversary Event November 14

 Red Line Extension (RLE) Roadshow: HACIA Membership Meeting November 14





