



### **Todays Presentation**

- CDOT Lake Line Damen Station Non-Revenue Maintenance
- Traction Power Upgrades Canal Tie House, Barry and Damen Substations
- O'Hare Line Harlem Station Bus Bridge Improvements
- Racine Station ADA & Traction Power Improvement Project
- Refresh & Renew Project
- Red and Purple Modernization Project



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

Priority of Project:	Medium
Total Project Budget:	
Construction Contract Value:	\$80,923,164
Earned to Date:	74%
Percent Change Orders to Construction Contract:	21.3%
Percent Time Used:	100%
DBE:	MBE: 30% WBE: 8% VBE: 0.96%
Funding Source:	TIF/CMAQ
Estimated Start Date/Estimated Length of Project:	1003 days after NTP – SC Date: 7/12/24
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**

Phase	Description	Status
Construction		
	Install Pedestrian Bridge Roof Panels	Completed
	Install security Cameras and Speakers	On-Going
	Continue running electrical conduit above/below platform	On-Going
	Install Escalator SS Cladding	On-Going
	Commission and Test Elevators	On-going
	Installing granite station floor and plaza	On-going
	Install CA Kiosk at ground level	On-going
	Place asphalt pavement along Damen/Lake	Planned late July
	Opening the New Station	Planned Q3





## Station House Glass





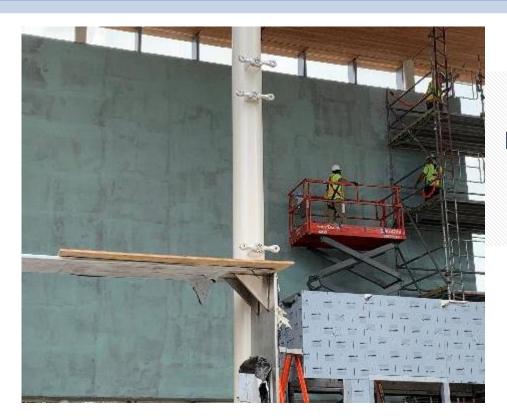
North Tower and Stair Enclosure from North





Installing
Elevator Rails
at
North Tower





Preparing West Station Wall for Mosaic Tile Art





Installation of Granite Pavers at Front Plaza



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.

	9
Total Project Budget:	\$122.8 Million
Construction Contract Value:	\$67.9 Million
Earned to Date:	82% (As of June 2024)
Percent Change Orders to Construction Contract:	16.7%
Percent Time Used:	89% (As of June 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:**

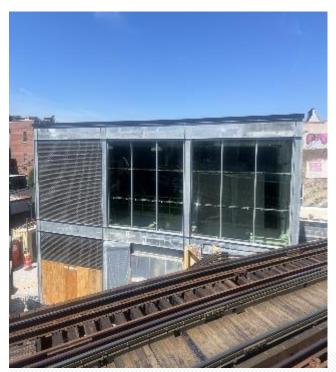
East Lake, Milwaukee & Illinois (ELMI) and Broadway substations

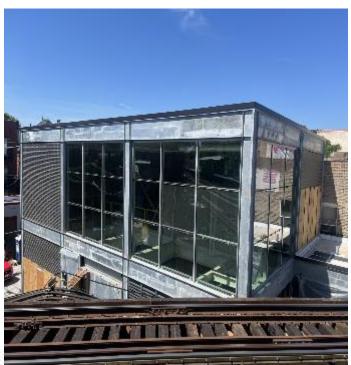


#### **Construction Progress**

Phase	Description	Status
Haymarket Substation	<ul><li> Equipment testing and commissioning</li><li> Parking Lot Restoration</li></ul>	Ongoing Upcoming
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>	Upcoming Upcoming Ongoing
Barry Substation	<ul> <li>Fabricate new substation electrical equipment.</li> <li>Build exterior walls and roof.</li> <li>Build building interior, flooring, rooms and finishes</li> </ul>	Ongoing Ongoing Upcoming
Belmont Crossover	Punchlist work.	Ongoing







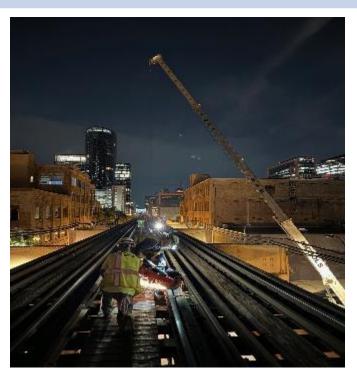
**Aerial Views of Damen Substation** 





**Face Brick Completed at Barry Substation** 



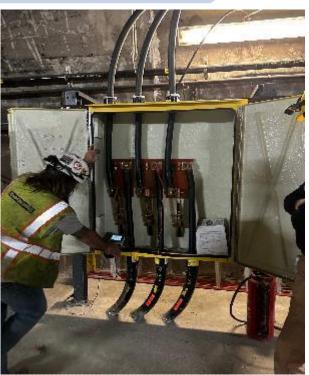




Section Gap and Cable Installation at Haymarket Substation







Cable Installation/Interior Build-Out at Canal Tie House



## Project Title: O'Hare Line – Harlem Station Bus Bridge Reconstruction

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:	\$34.5 Million
Construction Contract Value:	\$19.6 Million
Earned to Date:	\$4.3 Million
Percent Change Orders to Construction Contract:	0
Percent Time Used:	54%
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.



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

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 Reconstruction**



**Bus Canopy Roof Replacement - Mobilization** 



## Project Title: O'Hare Line – Harlem Station Bus Bridge Reconstruction





**Bus Canopy Roof Replacement - Demolition** 



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:	21% (thru April 2024)
Percent Change Orders to Construction Contract:	0%
Percent Time Used:	33% (thru April 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
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 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 amp roofing system and MEP Morgan Substation: Structure & shell Bridge level interiors Electrical and sanitary Underground Services Loomis New ADA samp: Installation of new amp roofing system and MEP Morgan Substation: Structure & shell Bridge level interiors Electrical and sanitary underground services Traction power equipment delivery, installation, testing and commissioning Hermitage Substation: Removal of existing traction power equipment	Ongoing Planned Planned Planned Planned Ongoing Planned Ongoing Planned

#### **Delay Explanation:**

N/A





Morgan Substation 2<sup>nd</sup> Level Structural Steel Detailing





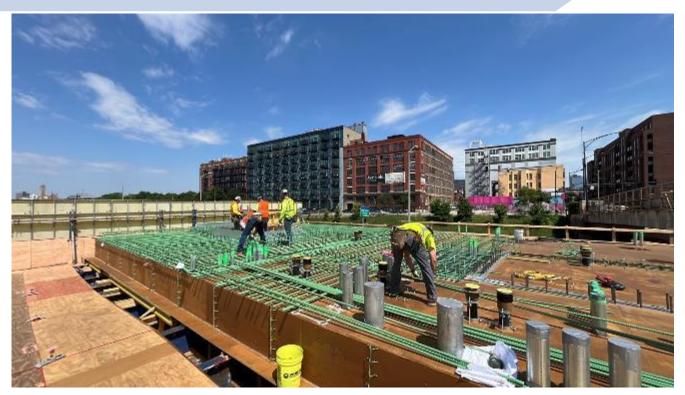
Morgan Substation Bridge Level Structural Steel Detailing and Form Work





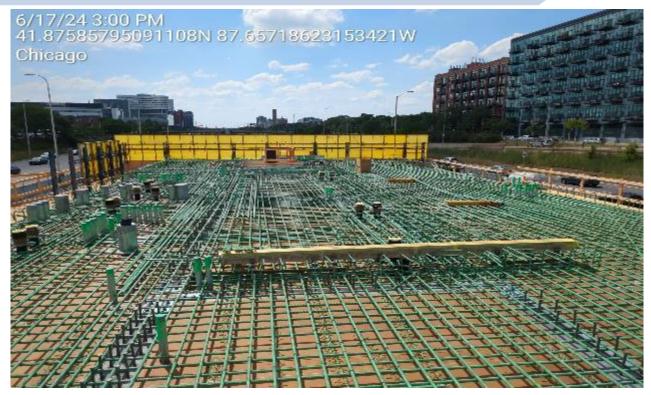
Racine Stationhouse Looking West, MEP, Rebar, and Form Work





Racine Stationhouse Rebar Detailing on Deck and around Elevator Shaft





**Racine Stationhouse Looking West** 



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:	\$1,496,190
Used last Month:	\$224,225
Funding Source:	Various
Estimated Start Date/Estimated Length of Project:	January 2021 to December 31, 2024
Contractor	CTA Forces

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.

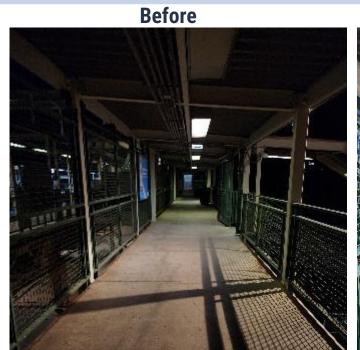


Department Description Status	
Facility Maintenance  Rail Stations Full Program Scope 29 Stations (12 of 29 Completed)  Ashland-Lake/Green Ashland/Orange Complet Com	eed eed eed eed eed eess eess eed eed ee

**Delay Explanation:** 

N/A









Clinton/Green – LED lighting upgrades



**Before** 



**After** 



Chicago/Blue - Ceiling repairs and LED lighting



Before After





**Pulaski/Orange –** Repainting of all canopies & LED lighting upgrades







Bus Turn Around @ Addison/Pontiac – Rehabilitation of the BTA Bathroom



Before After





Bus Turn Around @ Cicero/Pensicola – Newly tiled BTA bathroom floor



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 - \$1,383,992,301	
Earned to Date:	76.28%	
Percent Change Orders to Construction Contract:	8.8%	
Percent Time Used:	80.19%	
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:

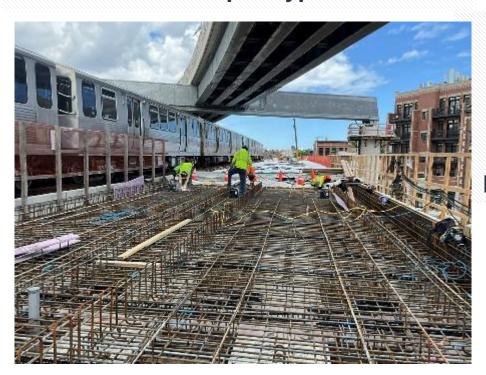
- Lawrence to Bryn Mawr Modernization (LBMM) complete reconstruction and addition of ADA accessibility at four Red Line stations (Lawrence, Argyle, Berwyn, and Bryn Mawr) and reconstruction of 6 miles of track, structures, and viaducts from Leland Ave. to Ardmore Ave.
- Red-Purple Bypass (RPB) Construction 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 / Design:	<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> </ul>	Ongoing Ongoing
Construction:	<ul> <li>Red-Purple Bypass (RPB)</li> <li>Ravenswood structure rehabilitation</li> <li>North Mainline structure rehabilitation</li> <li>Stage 2 punchlist work</li> <li>RPB Civil Improvements (Drainage and pavement)</li> <li>Construction and concrete placement for the Stage 3 NM substructure</li> <li>North Mainline Stage 3 track work</li> <li>Ravenswood Stage 3 track work</li> </ul>	Ongoing Ongoing Complete Ongoing Ongoing Started Started
	Lawrence to Bryn Mawr Modernization  Drilled shaft installation  Concrete substructure work  Segmental Erection  Wall repairs between Ardmore and Thorndale  Public ROW utility and drainage work  Continued cast-in-place bridge construction at Ardmore  Bryn Mawr Station Aux Station foundation work  Bryn Mawr Main and Aux Station utility work under the slab-on grade  Bryn Mawr Platform Steel Erection  Berwyn Station foundation  Berwyn Platform Steel Erection  Argyle Station Foundation Work  Argyle Station Steel Erection  Lawrence Station Foundation work  Installation of traction power isolation switch cabling north of Thorndale Station	Complete Ongoing Ongoing Ongoing Started Ongoing Started Complete Ongoing
	<ul> <li>Corridor Signal Improvements (CSI)</li> <li>RPB Stage 2 systems punchlist activities</li> <li>Continued signal testing and monitoring at Clark, Kenmore, Barry and Lakewood-Seminary Relay Houses</li> <li>Installation signal cable and junction boxes along track 4 near Jarvis</li> <li>Installation of signal equipment platforms from Montrose to Sheridan</li> <li>Installing temporary audio frequency track circuit equipment in Thorndale Relay House</li> <li>Installation of signal cabling from Addison to Montrose</li> </ul>	Ongoing Ongoing Ongoing Complete Ongoing Ongoing



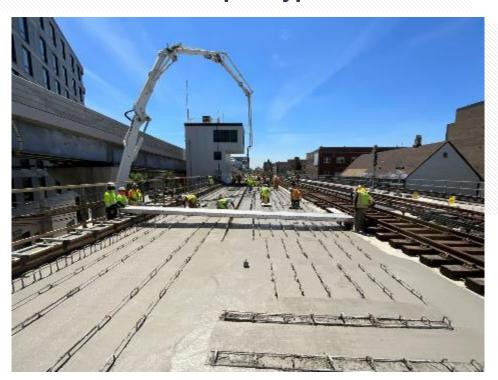
#### **Red-Purple Bypass**



# North Main Line Rebar Installation



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



North Main Line Concrete Deck Pour



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



Berwyn Station Escalator Installation



**Lawrence to Bryn Mawr Modernization** 



Argyle Station Main Girders Installation



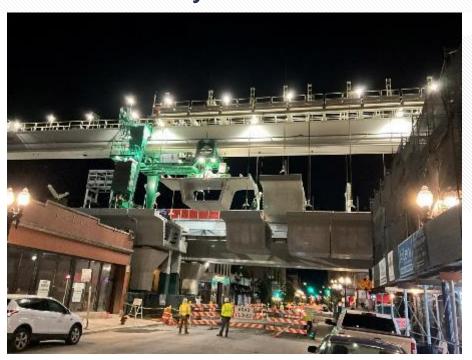
#### **Lawrence to Bryn Mawr Modernization**



## Lawrence Station Column Work



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



Segmental Installation over Bryn Mawr



#### **Community Outreach Major Activities Timing** Weekly Red-Purple Bypass Project updates for 44th Weekly ward Lawrence to Bryn Mawr project updates for 46th, 48th Bi-weekly wards CTA, City of Chicago and CPD Price Parade Planning May 30 CTA Clean and Green event in Red-Purple Bypass June 1 project area Buena Vista Association - Lawrence station update June 5 Monthly virtual office hours (June) June 11 Uptown Chamber/businesses -- project update CTA Clean and Green crew near Red June 12 Line in Lakeview Fast



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





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



RPM Phase I has created 2,256 construction trade labor jobs on the design-build team

Wages Eamed



### RPM Phase I Workforce Goals Goals Attainment 10 Workforce Innovation & Opportunity Act (WIOA) 12.53 15 31.22



#### **Small Business-Focused Outreach**

•	Driving Small Businesses the Distance (DSBTD):
	Insurance & Bonding

- DBE Advisory Committee
- Launch Small Business Educational Series
- Building Small Businesses (BSB) Orientation @ Hispanic American Construction Industry Association (HACIA)
- Q1 DBE Outreach Event @ Wright College
- DSBTD: Compliance Do's, Don'ts, and Musts
- IL Hispanic Chamber of Commerce (IHCC) Membership Breakfast
- City of Chicago Construction Summit
- **Building Opportunity Series:** Zero Emission Vehicles





	•	Building Small Businesses Certification Workshop	Februa
January 17			
•		11 841 11 15 15 15 15 15 15 15 15 15 15 15 15	

IL Minority Business Development Agency February 6 (MDBA) Clean Energy Summit February 29

February 6 • **HACIA Banquet** March 7

> African American Contractors Association (AACA) March 13 Banquet

February 8 **DSBTD**: Responding to CTA Contract

February 15 Solicitations March 20

February 21 • Illinois Government Contracting Summit Hosted by Illinois APEX Accelerator

February 22 •



February 22







ary 28

March 19

April 2



#### **Small Business-Focused Outreach**

•	Meet the Contract: NAPA	April 4	•	Q2 DBE Outreach Event @ BUILD Chicago	May 9
•	BSB Orientation @ Malcolm X College	April 4	•	BSB Orientation @ Olive Harvey College	May 9
•	Pathways to Cook County Construction Summit @ UIC	April 9	•	DSBTD: Invoicing	May 15
	Small Business Educational Series Graduation	April 9	•	Meet the Contractor: Intersection Media	May 15
•	DSBTD: Insurance & Bonding	April 17	•	DBE Advisory Committee	June 4
•	Clayco Outreach Event Featuring CTA Training and Control Center Operations (TACCO) @		•	African American Contractors Association (AACA) Certification Drive	June 17
	Revolution Workshop	April 23	•	Black Veterans Business Expo & Resource Fair	June 21
	Black Contractors United Networking Event @ Dawson Tech	A: 1 O 4	•	HACIA Multi-Modal Transportation Panel	June 25
	Dawson Tech	April 24		DSBTD: Pitfalls to Avoid when Submitting a Bid	June 26











#### **Workforce-Focused Outreach**

•	Q1	Workforce	Event (	@ .	Altgeld Gardens	
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January 25

RLE Project Advisory Committee Workforce
Discussion

February 1

Workforce Advisory Committee

February 6

Workforce Goal Discussion @ Southside Safety Committee

February 9

16th Ward Hiring Event

February 28

9

February 28 & 29

Chicago Public Schools Skilled Trades Fair

March 8

Percy Julian High School Community Event

 CTA Pre-Apprenticeship Event @ Truman College

March 12

Chicago Excel Academy (Roseland) Career Fair

March 19

Clark Construction Training & Open House
 @ CTA Non-Rev Facility

March 29





#### **Workforce-Focused Outreach**

 Chicago Women in Trades (CWIT) Mock Interviews

Workforce Advisory Committee

April 9

April 9

Community Wellness Fair @ McCutcheon Elementary

April 10

Tracks to Trades: Job Corps @ Paul Simon Job Corps Center

April 17 & 19

Citywide Career Fair @ Malcolm X College

April 25

 State Representative Justin Slaughter Second Chance Event @ District Constituent Office

April 27

 Red Line Extension (RLE) Concordia Place Residents Meeting

Q2 Workforce Event @ Roseland Christian

May 2

Thornwood Highschool Career Fair

Workforce Advisory Committee

May 15

Hire360 eBus Tour

Ministries

May 23

June 6

June 11

