



# Construction Project Briefing



October 14, 2022



# Today's Presentation

- Jefferson Park to O'Hare Signals Project
- Irving Park Station - Escalator and Canopy Replacement
- Traction Power Upgrades - Kedvale, Edmunds, and Sacramento Substations
- Non-Revenue Maintenance
- Traction Power Upgrades - Canal Tie House, Barry and Damen Substations
- Refresh & Renew Program
- Red and Purple Modernization Project



# Project Title:

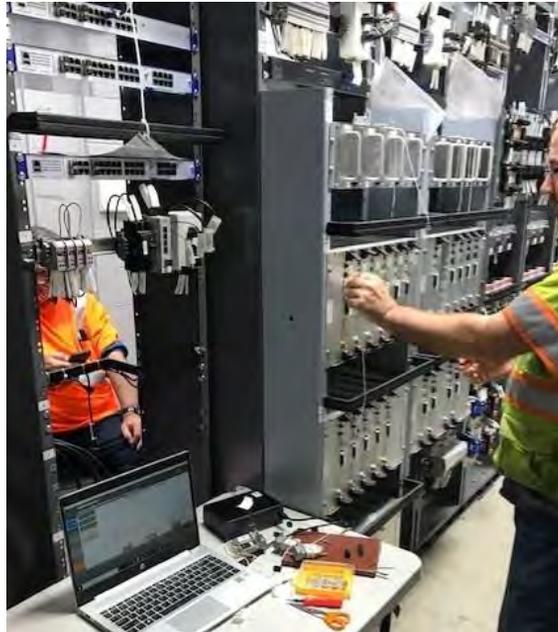
## Jefferson Park to O'Hare Signals Project

### Construction Progress

Phase	Description	Status
<b>Construction</b>	<ul style="list-style-type: none"><li>• Rosemont East Cutover is underway</li><li>• Discrepancy Closure at previously cutover houses.</li></ul>	Ongoing  Ongoing
<b>Delay Explanation</b>		
N/A	N/A	



# Project Title: Jefferson Park to O'Hare Signals Project



**Wire Termination and Inspection – Rosemont Tower (East)**



# Project Title: Jefferson Park to O'Hare Signals Project



## QuickTrak Troubleshooting and Commissioning



# Project Title: Irving Park Station Escalator and Canopy Replacement

## Construction Progress

Phase	Description	Status
<b>Construction</b>	<ul style="list-style-type: none"><li data-bbox="307 333 678 354">• Substantial Completion of Project</li><li data-bbox="307 387 506 409">• Punch List work</li></ul>	August 31, 2022  On-Going

### Delay Explanation:

An additional two weeks will be provided to JBCC due to issues outside of GC control (weather, material procurement, etc.). Moving from 8/14/22 to 8/31/22.





## Project Title:

# Irving Park Station Escalator and Canopy Replacement



**Pulaski  
Escalator**

**New  
Polycarbonate  
Canopy in  
background**



# Project Title:

## Irving Park Station Escalator and Canopy Replacement



**Irving Park  
Platform**

**Completed  
Canopy**



# Project Title: Traction Power Upgrades - Kedvale, Edmunds, and Sacramento Substations

## Construction Progress

Phase	Description	Status
<b>Construction</b>	<ul style="list-style-type: none"><li data-bbox="211 358 585 380">• Install AC Breakers at Edmunds</li><li data-bbox="211 434 464 456">• Sacramento Roofing</li><li data-bbox="211 511 502 532">• Courtyard Wall Renewal</li></ul>	Completed  On-Going  On-Going



# Project Title: Traction Power Upgrades - Kedvale, Edmunds, and Sacramento Substations



**Sacramento  
Substation**

**Rebuilding  
Transformer  
Enclosure  
Wall**



# Project Title: Traction Power Upgrades - Kedvale, Edmunds, and Sacramento Substations



**Sacramento  
Substation**

**New Concrete  
Wall  
Foundations**



# Project Title: Non-Revenue Rail Vehicle Facility

## Construction Progress

Phase	Description	Status
Construction	Design Phase	
	• Design Validation	Complete
	• Intermediate Design	Complete
	• Permitting – Underground Package	Complete
	• Permitting – Building Package	In progress
	• Final Design	In progress
	Construction Phase	
	• Utility Exploration	Complete
	• Underground Demolition Work	Complete
	• Stormwater Retention System Installation	Complete
	• Pile Drilling Earthwork	Complete
	• Building Foundations	In Progress
	• Grade Beams Pours	In Progress
	• Foundation Utility Work	In Progress
• Precast Panel Erection	Upcoming	
• Plumbing Work	Upcoming	

Delay Explanation:



# Project Title: Non-Revenue Rail Vehicle Facility



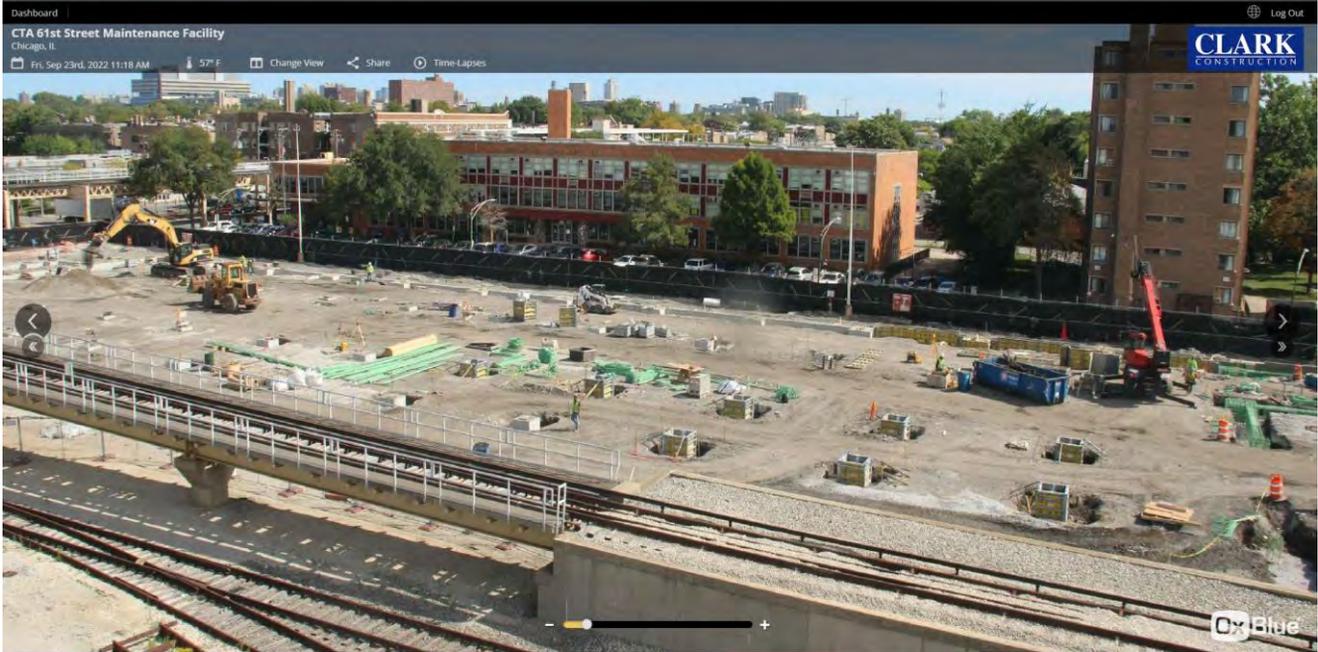
**Backfill Compaction Testing**



**Grade Beam and Pile  
Cap Surface Condition**



# Project Title: Non-Revenue Rail Vehicle Facility



**Aerial Feed of 9/23/22's Construction Site**



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

## Construction Progress

Phase	Description	Status
<b>Construction</b>	<ul style="list-style-type: none"><li>Milestone 3 - Completion requirements for traction power equipment – Final equipment coordination for Authority approval.</li></ul>	Completed
	<ul style="list-style-type: none"><li>Obtaining Building permits for Barry, Damen, and Haymarket.</li></ul>	Ongoing
	<ul style="list-style-type: none"><li>Mobilized to the Damen site and installed construction site perimeter fencing.</li></ul>	Completed
	<ul style="list-style-type: none"><li>Began site demolition at Damen.</li></ul>	Ongoing
	<ul style="list-style-type: none"><li>Damen substation foundations.</li></ul>	Ongoing
	<ul style="list-style-type: none"><li>Mobilize to Barry to install a construction perimeter fencing and start performing site demolition.</li></ul>	Ongoing
	<ul style="list-style-type: none"><li>ComEd temporary power installation at Damen and demolition of existing power pole.</li></ul>	Completed



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



**Old Foundation Removal at Damen**



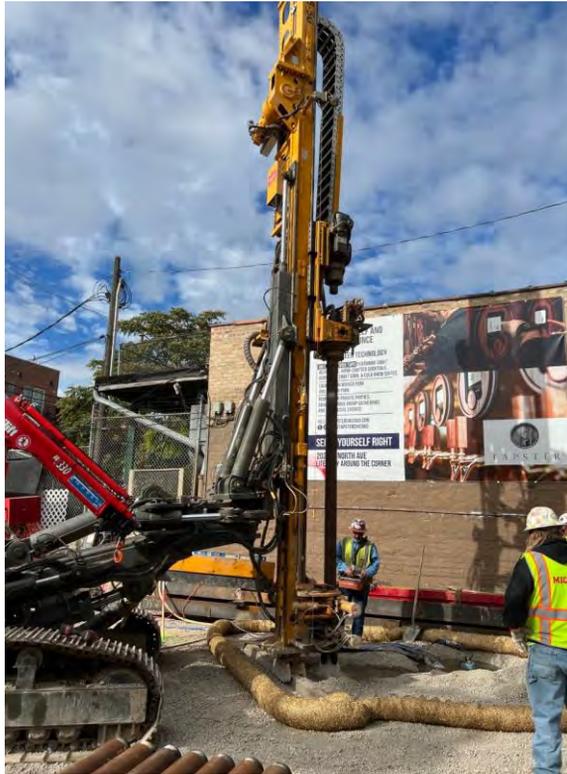
# Project Title: Traction Power Upgrades – Canal Tie House, Barry and Damen Substations



**Damen Micropile Foundation Installation**



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



**Damen Micropile Foundation Installation**



# Project Title: Refreshed & Renewed

Department	Description	Status
<b>Facility Maintenance</b>	<p><u>Rail Stations Full Program Scope 28 Stations (23 of 28 Completed)</u></p> <ul style="list-style-type: none"><li>• California/Pink</li><li>• Midway</li><li>• Central/Green</li><li>• Harlem/Congress</li><li>• Quincy Loop</li><li>• Roosevelt/Red</li><li>• Roosevelt/Orange/ Green</li></ul> <p><u>Painting and Lightning Only Improvements 92 Stations Con't (75 of 92 Completed)</u></p> <ul style="list-style-type: none"><li>• Western/Pink (Painting) SBE</li><li>• Kedzie/Pink (Painting) SBE</li><li>• Kostner/Pink (Painting) SBE</li><li>• Pulaski/Pink (Painting) SBE</li><li>• California/Pink (Painting) SBE</li><li>• 18/ Pink (Painting) SBE</li><li>• Polk/ Pink (Painting) SBE</li></ul>	<p>Completed</p> <p>Completed</p> <p>In-Progress</p> <p>Scheduled</p> <p>Scheduled</p> <p>Scheduled</p> <p>Scheduled</p> <p>Completed</p> <p>Completed</p> <p>Completed</p> <p>Completed</p> <p>In-Progress</p> <p>Scheduled</p> <p>Scheduled</p>
<b>Delay Explanation:</b> N/A		



# Project Title: Refreshed & Renewed

**Before**



**After**

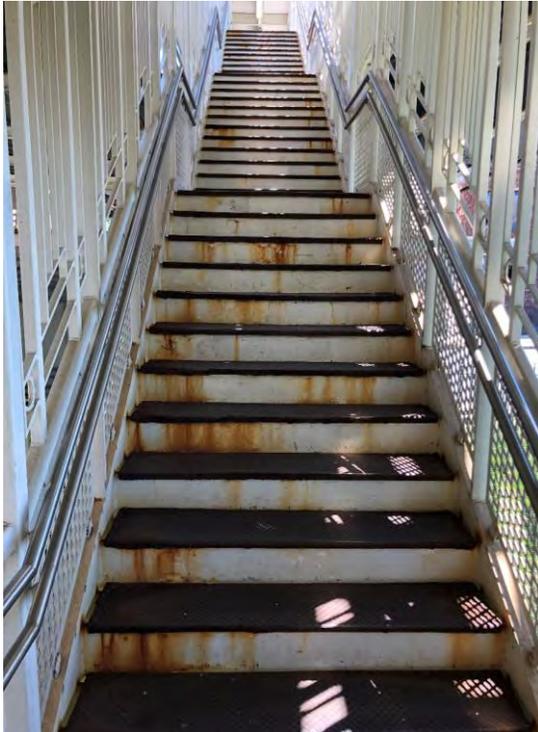


**California/Pink Line – Exterior Painting**

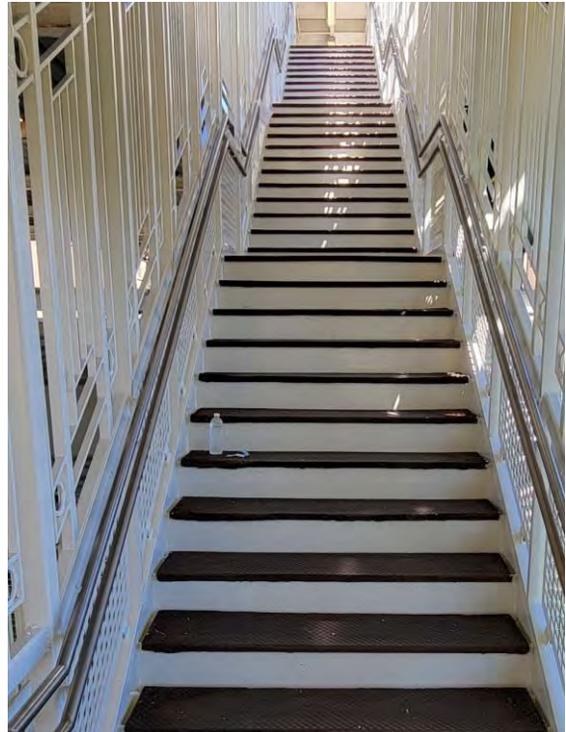


# Project Title: Refreshed & Renewed

**Before**



**After**





# Project Title: Refreshed & Renewed

**Before**



**After**

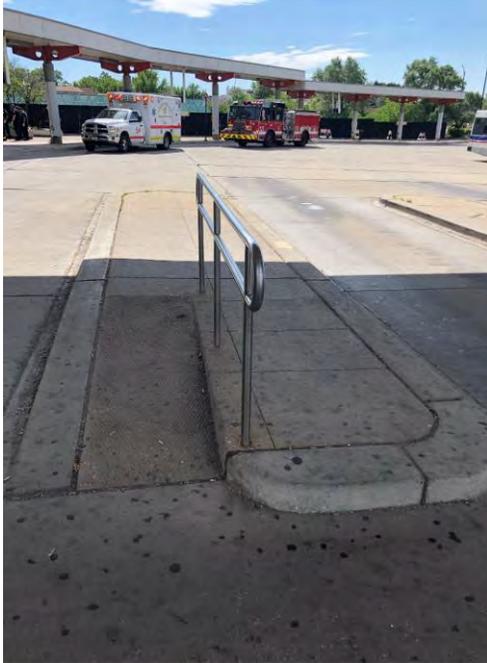


**Midway/Orange – Painting of all bus turn around canopies and bollards**



# Project Title: Refreshed & Renewed

**Before**



**After**

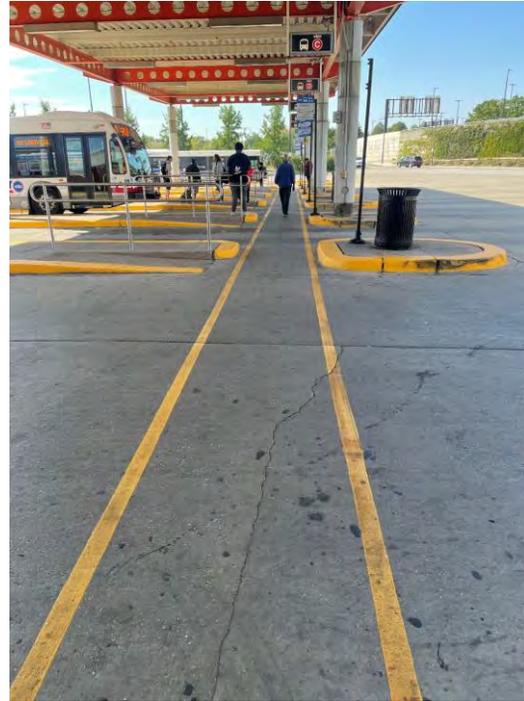


**Midway/Orange – Painting of all curbs and islands high visibility yellow**

**Before**



**After**



**Midway/Orange – Painting of all curbs, islands & cross walks high visibility yellow**



# Project Title: Refreshed & Renewed

**Before**

**After**



**Midway/Orange – Upgrade all lightening to LED**



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

<b>Justification of Need:</b>	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:	55.3%	
Percent Change Orders to Construction Contract:	-0.27%	
Percent Time Used:	65%	
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	
<b>Detailed Overview of Scope:</b>	RPM Phase One consists of the following elements that will allow CTA to expand service along the Red and Purple lines:	
	<ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> <li>• Corridor Signal Improvements (CSI) – Installation of new higher-capacity signal system on 23 miles of track between Belmont and Howard stations.</li> </ul>	





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



## RPB Micropile Foundations



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



## RPB Track Deck Form Work



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



## LBMM Ardmore Transition Bridge



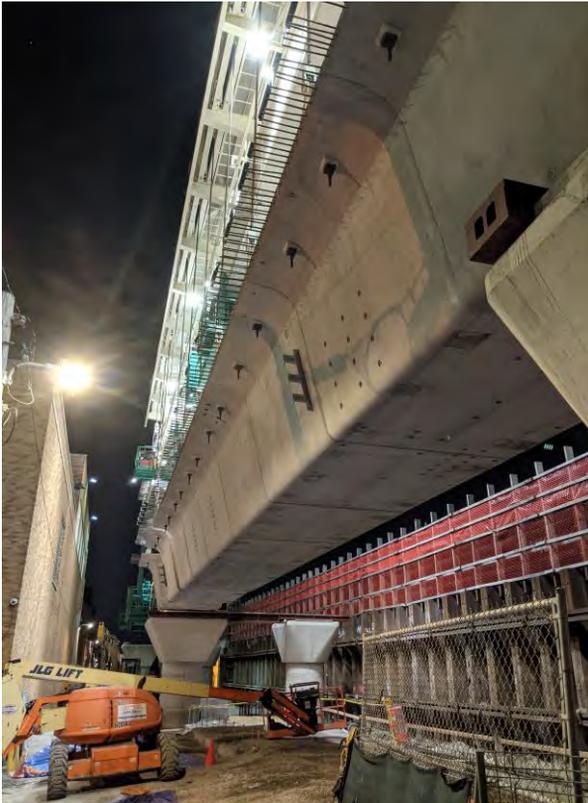
# Project Title: RPM Phase One – Design-Build Contract



## **LBMM Winona Relay House Work**



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



## LBMM Segment Erection



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



**LBMM  
Concrete Track  
Plinths**



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



## FTA Tour of RPM Project



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

	Outreach type	Major Activities	Timing
Community	 <p>CTA's Katrina Denny and Graham Garfield gave one of three RPM project tours to FTA workshop attendees on 9/7.</p>	<ul style="list-style-type: none"> <li>• Weekly Red-Purple Bypass Project updates for 44<sup>th</sup> ward</li> <li>• Lawrence to Bryn Mawr project updates for 48<sup>th</sup> ward</li> <li>• Goudy Elementary – Update on concrete pour work</li> <li>• FTA Construction Workshop in Chicago – Presentation and tours of RPM</li> <li>• Monthly "Virtual Office" hours – answering constituent questions</li> <li>• Care for Real 2<sup>nd</sup> Annual Community Celebration</li> <li>• Open for Business update meeting with Andersonville, Uptown and Edgewater chambers of commerce</li> </ul>	<p>Weekly</p> <p>Bi-weekly</p> <p>August 24</p> <p>September 7</p> <p>September 13</p> <p>September 18</p> <p>September 19</p>
Workforce & SBE/DBE		<ul style="list-style-type: none"> <li>• Monthly DBE/Workforce Outreach &amp; Compliance Meeting</li> <li>• DBE and Workforce Numbers as of 9/30/2022</li> <li>• Dollars Awarded To Date: \$230,594,243             <ul style="list-style-type: none"> <li>• Unique DBE Firms To Date: 84</li> <li>• Unique Firms New to CTA: 32</li> </ul> </li> <li>• Total Labor Hours Produced: 921,320</li> <li>• Total Dollars Earned: \$53,040,114</li> <li>• Jobs created to date (construction trade labor on the design-build team): 1,634 individuals</li> </ul>	<p>Ongoing</p>