



Construction Project Briefing

August 29, 2023



Today's Presentation

- CDOT - Lake Line - Damen Station
- Non-Revenue Maintenance
- Traction Power Upgrades - Canal Tie House, Barry and Damen Substations
- Refresh & Renew Program
- Forest Park Phase 1 Rebuild
- Red and Purple Modernization Project



Project Title: CDOT - Lake Line - Damen Station

Justification of Need:

Priority of Project:	Medium
Total Project Budget:	
Construction Contract Value:	\$70,872,840
Earned to Date:	32%
Percent Change Orders to Construction Contract:	3.3%
Percent Time Used:	76%
DBE:	MBE: 30% WBE: 8% VBE: 0.96%
Funding Source:	TIF/CMAQ
Estimated Start Date/Estimated Length of Project:	897 days after NTP – New SC Date: 3/28/24
Designer of Record:	Perkins and Will
Construction Manager/General Contractor:	Arcadis / FH Paschen



Project Title: CDOT - Lake Line - Damen Station

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



Project Title: CDOT - Lake Line - Damen Station

Construction Progress

Phase	Description	Status
Construction	<ul style="list-style-type: none"><li data-bbox="211 353 715 380">• Complete pouring Elevator Core Walls (ACON)<li data-bbox="211 426 629 453">• Station House south ACON wall pours<li data-bbox="211 500 765 548">• Continue pier/column replacement on CTA elevated structure<li data-bbox="211 595 772 643">• Continue Install North Tower and Outbound Platform Steel<li data-bbox="211 690 605 716">• Steel Delivery for Pedestrian Bridge	Completed On-Going On-Going On-Going Planned Q3



Project Title: CDOT - Lake Line - Damen Station



**Damen Station
View of Station
House**



Project Title: CDOT - Lake Line - Damen Station



Damen Station

**Installing Steel
Truss at North
Tower**



Project Title: CDOT - Lake Line - Damen Station



Damen Station

Preparing Forms
for ACON Wall on
south side of
station house



Project Title: CDOT - Lake Line - Damen Station



Damen Station

**Ironworkers
Installing Rebar
for New Pier Cap**



Project Title: Non-Revenue Rail Vehicle Facility

Justification of Need:

Priority of Project:	Medium
Total Project Budget:	\$65,902,503
Construction Contract Value:	\$44,370,833
Earned to Date:	50% (thru March 2023)
Percent Change Orders to Construction Contract:	4% (Change Order #1 – \$1,694,221 – Executed October 4 th , 2022)
Percent Time Used:	84%
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 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.



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.

Comparable Projects:



Project Title: Non-Revenue Rail Vehicle Facility

Construction Progress

Phase	Description	Status
Construction	Design Phase <ul style="list-style-type: none">• Design Package 3 – W48 Waterline Permit• Final Design	In-Progress Complete
	Construction Phase <ul style="list-style-type: none">• Install Gas Main on Roof• Wash Pit Wall/Slab• Fencing at 61st• Duct banks Installation• Punch Windows Glass Installation• Pour Slab on Grade• Maintenance Pit Wall/Slab• Installing CMU Under Mezzanine• Install Stairs To Mezzanine And Roof• Entrance Gate Modification• Painting Walls• Oil-Water Separator Installation	Complete Complete Complete In Progress In Progress In Progress In Progress In Progress In Progress Upcoming Upcoming

Delay Explanation:



Project Title: Non-Revenue Rail Vehicle Facility



Inspection Pit Concrete Pour



Project Title: Non-Revenue Rail Vehicle Facility



Building Interior – Looking Northeast



Project Title: Non-Revenue Rail Vehicle Facility



Inspection Pit Looking South



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:	\$122.8 Million
Construction Contract Value:	\$67.9 Million
Earned to Date:	58% (As of June 2023)
Percent Change Orders to Construction Contract:	16.7%
Percent Time Used:	60% (As of June 2023)
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



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

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



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

Construction Progress

Phase	Description	Status
Haymarket Substation	• Install new electrical equipment	Upcoming
	• Build building interior, flooring, rooms and finishes	Ongoing
	• Equipment testing and commissioning.	Ongoing
Canal Tie-House	• Equipment testing and commissioning	Upcoming
	• Install new Canal Tie-House equipment	Ongoing
	• Install, form, and pour new Ductbank 2	Upcoming
Damen Substation	• Fabricate new substation electrical equipment	Ongoing
	• Build building exterior walls and roof	Ongoing
	• Build building interior, flooring, rooms and finishes	Ongoing
Barry Substation	• Building exterior walls and roof.	Upcoming
	• Site excavation and preparation for grade beams.	Ongoing
	• Build building exterior walls and roof.	Upcoming
Belmont Crossover	* Commission New Belmont Crossover	Ongoing
	* Punchlist Work	Ongoing



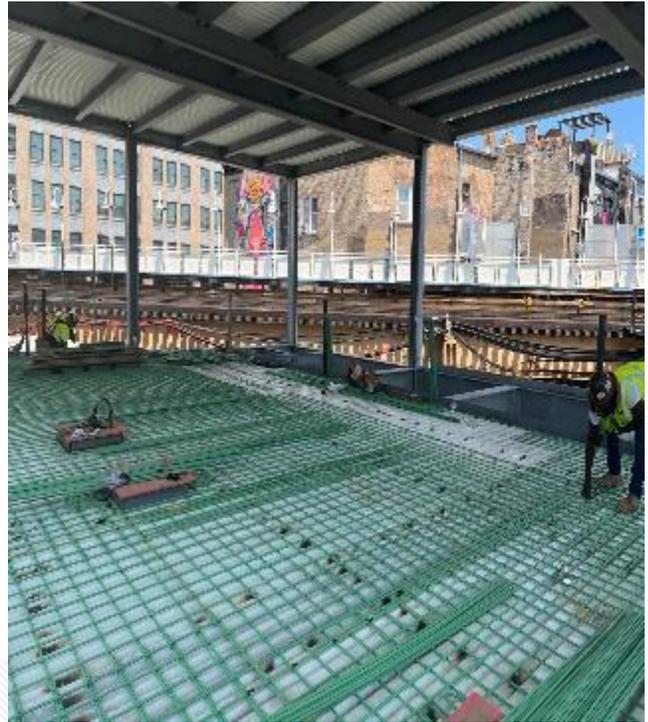
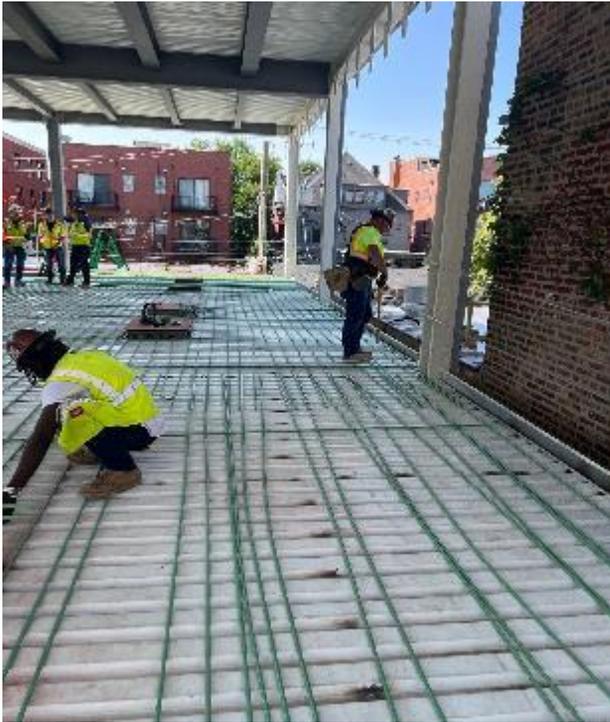
Project Title: Traction Power Upgrades – Canal Tie House, Barry and Damen Substations



Site Excavation at Barry



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



Steel Reinforcement Equipment Platform at Damen



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



Dielectric Floor Installation at Haymarket



Project Title: Refreshed & Renewed

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.

Justification of Need:

Priority of Project:	Medium
Total Project Budget:	\$6,500,000
Expended to Date:	\$2,539,560.72
Used last Month:	\$ 370,138.812
Funding Source:	Various
Estimated Start Date/Estimated Length of Project:	January 2021 to December 31, 2023
Contractor	CTA Forces

92 Rail stations will receive lighting upgrades, painting and deep cleaning as part of this program.

29 stations 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.



Project Title: Refreshed & Renewed

Impact on Customers: (Slow zones, single tracks, reroutes, weekends, etc.)	No track access occurrences within the scheduled work of the Refreshed & Renewed program will affect customers. Minimal impacts to customers will be work-arounds at any given station/ facility that may affect customers, or employees, for a relatively short amount of time (Typically less than 1 day.)
Benefit to System:	The Refreshed & Renewed Program is implemented to promote the continued safety, security and longevity of all CTA Facilities including, not limited to: Rail Stations and Platforms, Bus Garages and Rail Shops across the system.
Benefit to Community:	Improved overall lighting and wayfinding signage, newly painted & refreshed stations, safety, cleanliness and appearance. Focus on the Customer experience, both Internal and external.

Comparable Projects:

- Station Renewal
- Logan Square Station Renewal



Project Title: Refreshed & Renewed

Department	Description	Status
Facility Maintenance	<p><u>Rail Stations Full Program Scope 29 Stations (7 of 29 Completed)</u></p> <ul style="list-style-type: none">• Addison/Red Line• 35th/Red Line• 35th/Green Line• Montrose/Brown• Halsted/Orange• Cicero/Green• Howard/Red• Sheridan• Indiana/Green• 35th/Orange• Merchandise Mart• 54th/Cermak/Pink• Laramie/Green <p><u>Bus Turnaround Full Program (5 of 12 Completed)</u></p> <ul style="list-style-type: none">• 79th & South Shore• 63rd & Archer• Central & Harrison• Chicago & Austin• 79th & Halsted• 74th & Damen• Archer & Neva• 24th & Cicero• North & Narragansett	<p>Completed</p> <p>In-Progress</p> <p>Scheduled</p> <p>Scheduled</p> <p>Completed</p> <p>Completed</p> <p>Completed</p> <p>Completed</p> <p>Completed</p> <p>Completed</p> <p>Completed</p> <p>In-Progress</p> <p>Scheduled</p>

Delay Explanation:

N/A



Project Title: Refreshed & Renewed

Before



After



35th/Archer – Paint all columns and under canopy. Re-attach all pigeon deterrent netting.

Before



After

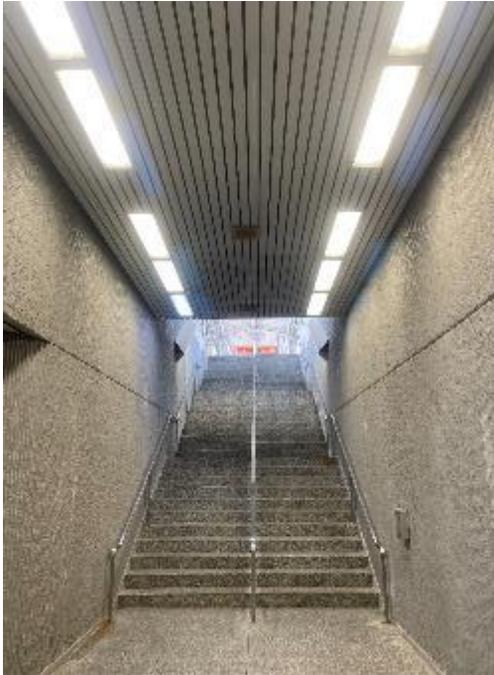


35th/Archer – Replace exterior signage with new and add LED lightening to light boxes.

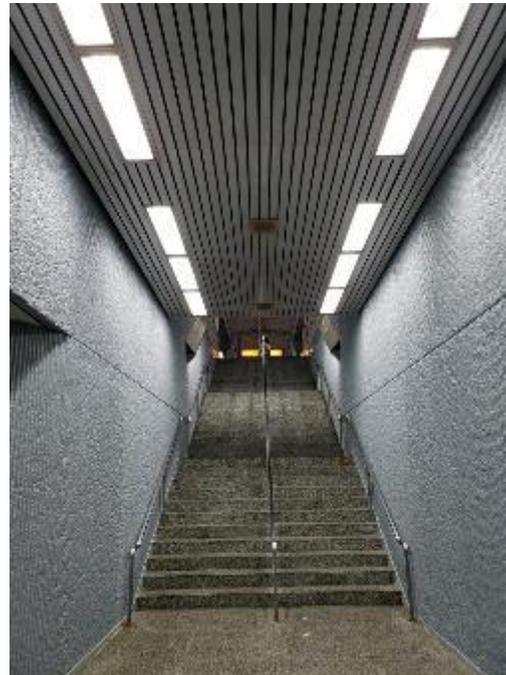


Project Title: Refreshed & Renewed

Before



After



35th/Archer – Paint all staircases walls and upgrade lights to LED.



Project Title: Refreshed & Renewed

Before



After



Sheridan/Red – Demo CSA bathroom and replace toilet, redo all plumbing, new lights, water heater and paint.



Project Title: Refreshed & Renewed

Before



After



Indiana/Green Line – Replace all light fixtures with LED



Project Title: Refreshed & Renewed

Before



After



Indiana/Green Line – Replace all platform light fixtures with LED



Project Title: Forest Park Phase 1 Rebuild

Justification of Need: Improve eroded track conditions and address slow zones within project limits

Priority of Project:	High
Total Project Budget:	\$112,212,000
Construction Contract Value:	\$104,980,000
Earned to Date:	30% (thru July 2023)
Percent Change Orders to Construction Contract:	0%
Percent Time Used:	37% (thru July 2023)
DBE:	Goal: 30% Commitment: 30% Workforce Goals: 10% Career Opportunity/ 10% Apprentice/ 30% EDA Contract is on track to meet the DBE goal
Funding Source:	IDOT - Rebuild Illinois, CTA Bonds, TIF
Estimated Start Date/Estimated Length of Project:	NTP: 3/09/2023 Project Duration: 382 days (NTP through SC)
Designer of Record:	AECOM
Construction Manager/General Contractor:	Congress Corridor Partners, a joint between (WSP/Ardmore) / Kiewit Infrastructure Co.

- Detailed Overview of Scope:**
- Rebuild 1.5 miles of tracks between the south portal of the Dearborn Subway, east of Halsted St., and the east end of the IMD Station near Damen Ave.
 - Replace the Morgan Middle Special Trackwork, the Racine Siding tracks and track connections to Loomis inclines.
 - Right-of-way, civil, site, and drainage improvements along the project limits, including underground foundations for the Racine stationhouse and Morgan substation.
 - Miscellaneous improvements on the existing utilities, including traction power, communications and signal systems.



Project Title: Forest Park Phase 1 Rebuild

Impact on Customers:	<ul style="list-style-type: none">• No rail service between IMD and LaSalle stations for 28 days and (Racine, UIC-Halsted, Clinton) stations will be OOS.• No rail service between IMD and UIC-Halsted for 33 days and Racine station will be OOS.• No access to Racine stationhouse from Racine street until completely rebuild, the Loomis stationhouse will remain in service during this time.• Express and local bus shuttles will be provided during the linecut.
Benefit to System:	<ul style="list-style-type: none">• The project will address 1.5 miles of existing slow zones between IMD & Halsted.• The project will reduce maintenance needs and extend the life of the track infrastructure.
Benefit to Community:	<ul style="list-style-type: none">• When completed, the project is expected to provide 4 minute headway travel time between the Racine station and the loop, improving the overall commute quality for the Blue Line passengers in the surrounding medical, school and business districts.
Impact on Accessibility:	<ul style="list-style-type: none">• None
Customer Communication Need:	<ul style="list-style-type: none">• GCR outreach with surrounding stakeholders.• Construction activity notices will be distributed as needed.• Advanced service disruption signs and posters will be installed as needed.

Comparable Projects:

The Dan Ryan Track Renewal Improvements



Project Title: Forest Park Phase 1 Rebuild

Construction Progress

Phase	Description	Status
Construction	<p>Pre-Linecut Work:</p> <ul style="list-style-type: none"> • Mobilization and site setup at the Rush Lot staging site • Advanced material procurement and delivery • Installation of a temporary Fencing barrier & stair towers • Utility investigation and potholing • Pre-testing and assessment of Signal equipment • Earthwork and mass excavations outside main track bed • Advanced drainage & utility work outside main track bed <p>61-day Linecut Work:</p> <ul style="list-style-type: none"> • Demolition of the Racine stationhouse and ramp • Demolition and removal of existing tracks • Installing new foundations at Racine and Morgan • Installing directional bores under I-290 • Installing new ballast and utilities under track bed • Installing new rail including all special trackwork • Dearborn subway work (Rail, tunnel) • Testing for mainline service restoration <p>Post-Linecut Work:</p> <ul style="list-style-type: none"> • Testing and commissioning of Morgan Middle & TOs. 	<p>Completed</p> <p>Completed</p> <p>Completed</p> <p>Completed</p> <p>Completed</p> <p>Ongoing</p> <p>Ongoing</p> <p>Completed</p> <p>Completed</p> <p>Planned</p> <p>Planned</p> <p>Planned</p> <p>Planned</p> <p>Ongoing</p> <p>Planned</p> <p>Planned</p>

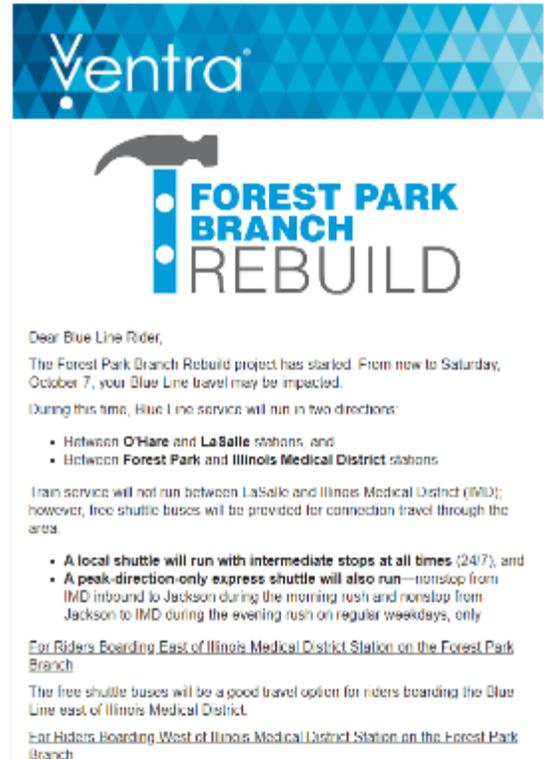
Delay Explanation:



Project Title: Forest Park Phase 1 Rebuild

Marketing Results - Email

- **Nine Emails Sent**
 - Segmented into different parts of the Blue Line
 - West of Cicero
 - Between Cicero and IMD
 - Between IMD and LaSalle
 - O'Hare to LaSalle
- **121,000+ emails sent**
- **68,000+ emails opened**
 - The emails sent to the largest segment (O'Hare to LaSalle) also had the highest open rate
 - Approx. 50% open rate; industry standards around 20%

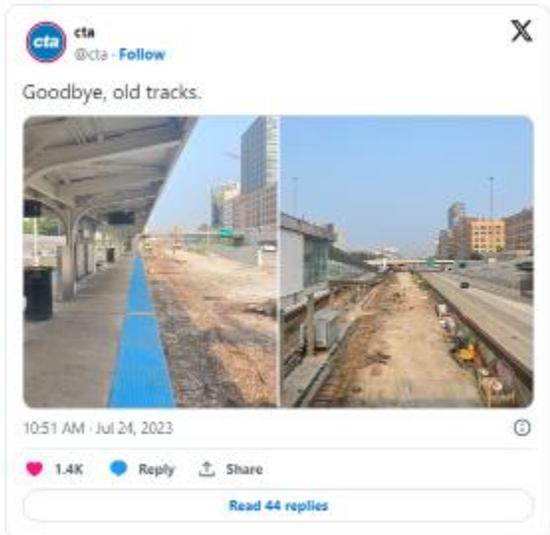




Project Title: Forest Park Phase 1 Rebuild

Marketing Results – Social Media

- 35 social posts up across all platforms
- 412,000+ impressions
- 7,000+ engagements
 - Likes, Comments, Shares, Link Clicks





Project Title: Forest Park Phase 1 Rebuild

Volunteer Information Specialists

- **Over 150 CTA employees across all departments volunteered to serve as information specialists**
 - **Two weeks of info specialists at locations across the branch**
 - **Answered questions about the project, directed riders to bus shuttles and helped identify alternative service options**





Project Title: Forest Park Phase 1 Rebuild



Mass Excavation & Grading by UIC-Halsted Station



Project Title: Forest Park Phase 1 Rebuild



Halsted Station Excavation



Project Title: Forest Park Phase 1 Rebuild



Drainage structure installation near IMD



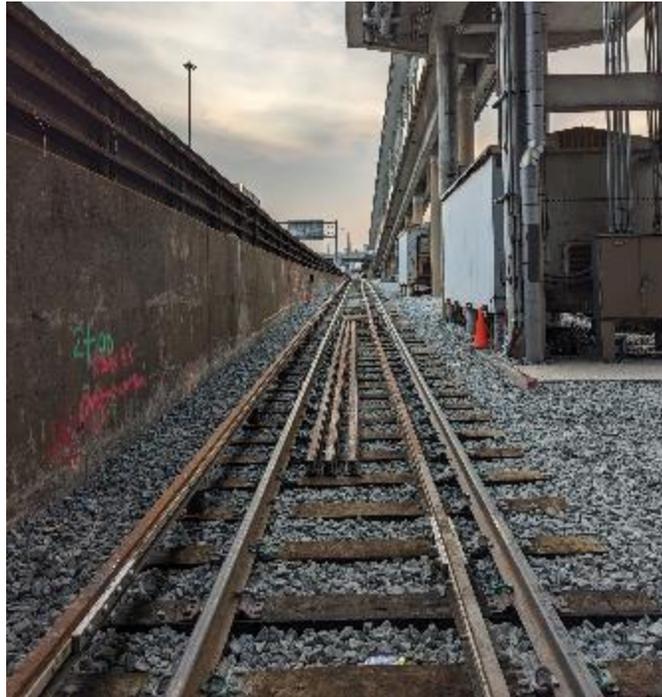
Project Title: Forest Park Phase 1 Rebuild



Track Renewal at LaSalle Station



Project Title: Forest Park Phase 1 Rebuild



Halsted Station After



Project Title: Forest Park Phase 1 Rebuild



Stage A Completion



Project Title: Forest Park Phase 1 Rebuild



Stage A Completion



Project Title: Forest Park Phase 1 Rebuild



First Stage B Train



Project Title: Forest Park Phase 1 Rebuild



Removal of Racine Ramp



Project Title: Forest Park Phase 1 Rebuild



Morgan Middle Looking West



Project Title: Forest Park Phase 1 Rebuild



Morgan Middle Looking East



Project Title: RPM Phase One – Design-Build Contract

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 - \$1,364,324,117	
Earned to Date:	64.1%	
Percent Change Orders to Construction Contract:	7.2%	
Percent Time Used:	66.3%	
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:	
	<ul style="list-style-type: none"> • 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. 	



Red-Purple Bypass



**North Main Line
Double Crossover
Installation**



Lawrence to Bryn Mawr Modernization



**Stage B
Ceremonial First
Train**



Lawrence to Bryn Mawr Modernization



**Bryn Mawr
Stage B Temp
Station Entrance**



Lawrence to Bryn Mawr Modernization



**Argyle
Stage B Temp
Station
Entrance
(Winona
entrance)**



Lawrence to Bryn Mawr Modernization



**Argyle Stage B
Temp Station
Revenue Entrance
(Foster entrance)**



Lawrence to Bryn Mawr Modernization



**Stage B Revenue
Service First Train
at Bryn Mawr**

	Outreach type	Major Activities	Timing
Community	 <p><i>President Carter addressed media and employees following the ceremonial first Red Line train on the new track structure between Lawrence and Bryn Mawr.</i></p>	<ul style="list-style-type: none"> • Weekly Red-Purple Bypass Project updates for 44th ward • Lawrence to Bryn Mawr project updates for 48th ward • Argyle Night Market • RPM July virtual office hours • Edgewater Farmers Market • RPM project update for chambers of commerce • Kickoff of Lawrence to Bryn Mawr Stage B RPM ambassador outreach event • Lawrence to Bryn Mawr: Start of Stage B ceremonial “first train” media event 	<p>Weekly</p> <p>Bi-weekly</p> <p>July 6</p> <p>July 11</p> <p>July 17</p> <p>July 18</p> <p>July 24</p> <p>July 28</p>
Workforce & SBE/DBE	 <p>A proud partner of the American Job Center network.</p> 	<ul style="list-style-type: none"> • Monthly DBE/Workforce Outreach & Compliance Meeting • Q2 Workforce Outreach Event • DBE and Workforce Numbers as of 7/31/2023 • Dollars Awarded To Date: \$243,168,320 <ul style="list-style-type: none"> • Unique DBE Firms To Date: 96 • Unique Firms New to CTA: 40 • Total Labor Hours Produced: 1,348,477 • Total Dollars Earned: \$78,555,669 • Jobs created to date (construction trade labor on the design-build team): 1,904 individuals 	<p>Ongoing</p> <p>June 15</p>