



Construction Project Briefing

June 16, 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
- Red Line Extension Project
- 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:	28%
Percent Change Orders to Construction Contract:	5.2%
Percent Time Used:	68%
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	• Frame and pour 2nd ^l lift of ACON Core Walls	Completed
	• Continue to pour Station house walls	On-Going
	• Continue pier/column replacement on CTA elevated structure	On-Going
	• Continue to strip and paint existing bent steel	On-Going
	• Prepare station House slab on grade pour	June
	• Steel Delivery for tower	Planned Q3



Project Title: CDOT - Lake Line - Damen Station



Damen Station

**Painting Bent
Steel west of
Damen**



Project Title: CDOT - Lake Line - Damen Station



Damen Station

**Placing Second
Pour Concrete for
ACON Tower
Walls**



Project Title: CDOT - Lake Line - Damen Station



Damen Station

Placing Concrete
for Station House
Walls



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:	46% (thru February 2023)
Percent Change Orders to Construction Contract:	4% (Change Order #1 – \$1,694,221 – Executed October 4 th , 2022)
Percent Time Used:	82%
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	<p>Design Phase</p> <ul style="list-style-type: none">• Design Package 3 – W48 Waterline Permit• Design Package 4 – 61st Street Parking Lot• Final Design <p>Construction Phase</p> <ul style="list-style-type: none">• Helicopter Lift for Equipment• Punch Windows Frame Installation• Clerestory Framing• Wash Pit Excavation• Roofing Installation• Duct banks Installation• Punch Windows Glass Installation• Wash Pit Mat Slab Pour• Maintenance Pit Excavation• Pouring Mezzanine Slab• Oil-Water Separator Installation• Pour Slab on Grade	<p>In-Progress</p> <p>In-Progress</p> <p>Complete</p> <p>Complete</p> <p>Complete</p> <p>Complete</p> <p>Complete</p> <p>In Progress</p> <p>In Progress</p> <p>In Progress</p> <p>In Progress</p> <p>In Progress</p> <p>In Progress</p> <p>Upcoming</p> <p>Upcoming</p>

Delay Explanation:



Project Title: Non-Revenue Rail Vehicle Facility



Helicopter Lift for RTU Equipment



Project Title: Non-Revenue Rail Vehicle Facility



Camera View - Building Interior



Project Title: Non-Revenue Rail Vehicle Facility



Concord – Maintenance Pit Excavation



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

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.

Justification of Need:

Priority of Project:	High
Total Project Budget:	\$122.8 Million
Construction Contract Value:	\$67.8 Million
Earned to Date:	34% (As of April 2023)
Percent Change Orders to Construction Contract:	0
Percent Time Used:	53% (As of April 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: 10.20.21 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



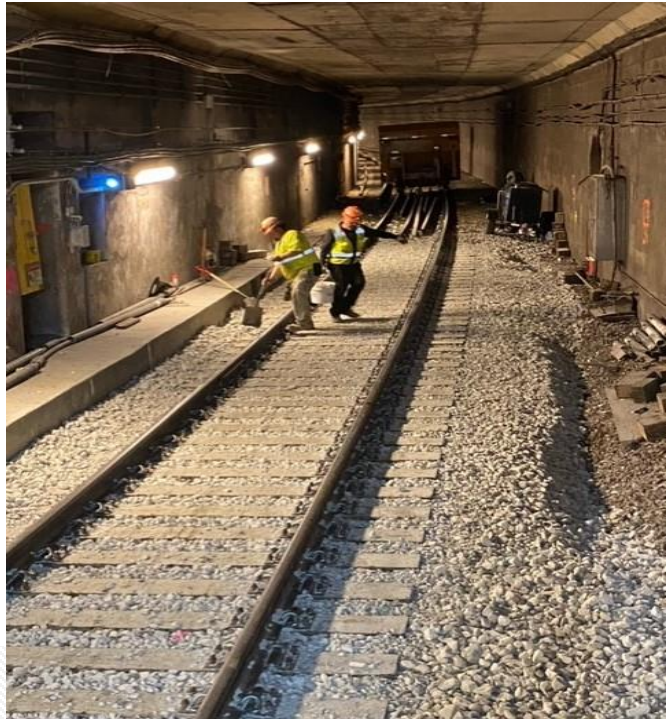
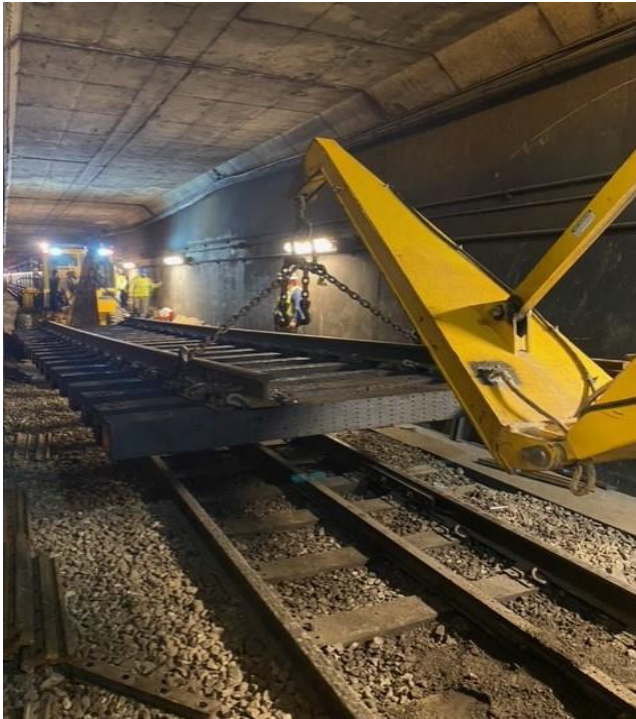
Project Title: Traction Power Upgrades – Canal Tie House, Barry and Damen Substations

Construction Progress

Phase	Description	Status
Haymarket Substation	<ul style="list-style-type: none">• Install new electrical equipment	Upcoming
	<ul style="list-style-type: none">• Build building interior, flooring, rooms and finishes	Upcoming
	<ul style="list-style-type: none">• Equipment testing and commissioning.	Upcoming
Canal Tie-House	<ul style="list-style-type: none">• Fabricate new Canal Tie-House equipment	Ongoing
	<ul style="list-style-type: none">• Install new Canal Tie-House equipment	Ongoing
	<ul style="list-style-type: none">• Install, form, and pour new Ductbank 2	Upcoming
Damen Substation	<ul style="list-style-type: none">• Fabricate new substation electrical equipment	Ongoing
	<ul style="list-style-type: none">• Build building exterior walls and roof	Ongoing
	<ul style="list-style-type: none">• Build building interior, flooring, rooms and finishes	Upcoming
Barry Substation	<ul style="list-style-type: none">• Obtain building permit	Completed
	<ul style="list-style-type: none">• Site excavation and preparation for foundation micropiles and grade beams.	Ongoing
	<ul style="list-style-type: none">• Caisson Installation	Ongoing
Belmont Crossover	<ul style="list-style-type: none">* Mobilize and demo existing traction power ductbanks	Completed
	<ul style="list-style-type: none">• Install New Crossover, Ductbanks, and Cut-Ins	Ongoing
	<ul style="list-style-type: none">• Commission New Belmont Crossover	Upcoming



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



Track Replacement and Hand Dressing New Ballast at Belmont



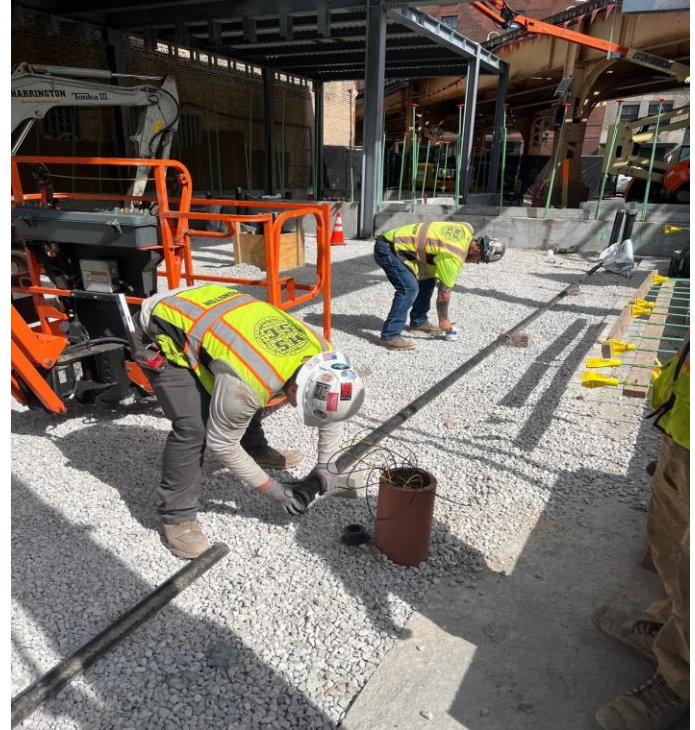
Project Title: Traction Power Upgrades – Canal Tie House, Barry and Damen Substations



Caisson Installation at Barry



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



Completed Steel Erection, Roof and Plumbing Installation at Damen



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:	\$1,979,422.82
Used last Month:	\$640,080.82
Funding Source:	Various
Estimated Start Date/Estimated Length of Project:	January 2021 to December 31, 2023
Contractor	CTA Forces , Mack Construction Services, LLC

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:	
<ul style="list-style-type: none">• Station Renewal• Logan Square Station Renewal	



Project Title: Refreshed & Renewed

Department	Description	Status
Facility Maintenance	<p><u>Rail Stations Full Program Scope 29 Stations (5 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 <p><u>Bus Turnaround Full Program (4 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	<p>Completed</p> <p>Completed</p> <p>Completed</p> <p>Completed</p> <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>In-Progress</p> <p>Scheduled</p> <p>Scheduled</p>

Delay Explanation:

N/A



Project Title: Refreshed & Renewed

Before



After

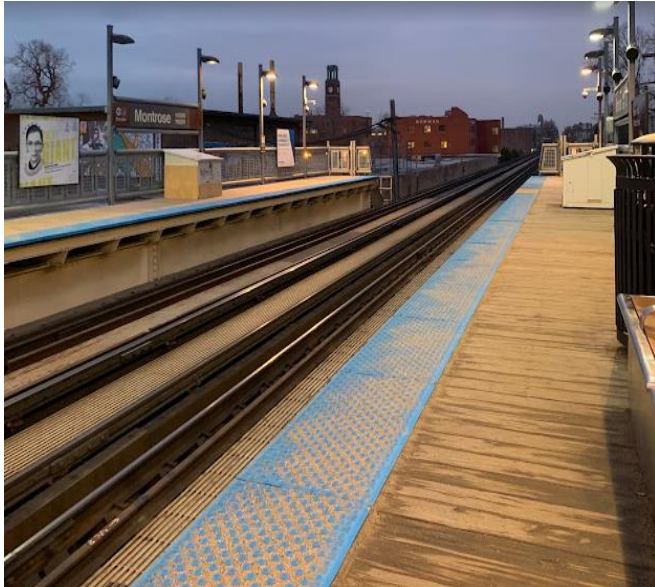


Montrose / Brown Line – Replace all lighting with LED and Painting of ceiling, columns and column bases throughout.



Project Title: Refreshed & Renewed

Before



After

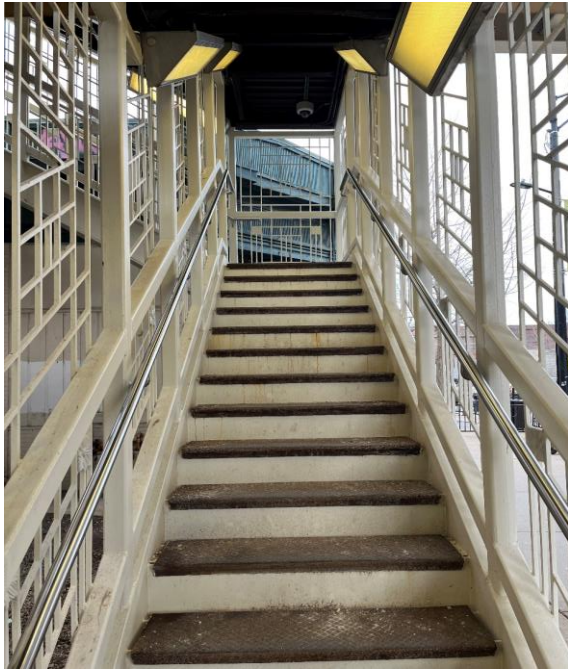


Montrose / Brown Line – New Platform LED lighting conversion

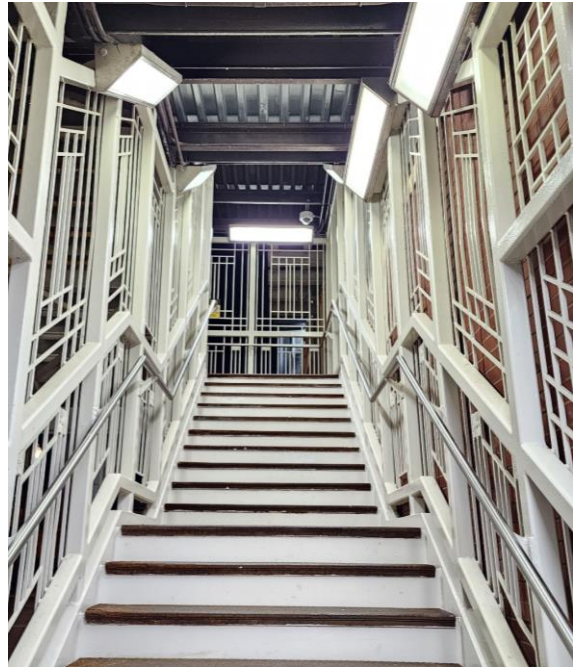


Project Title: Refreshed & Renewed

Before

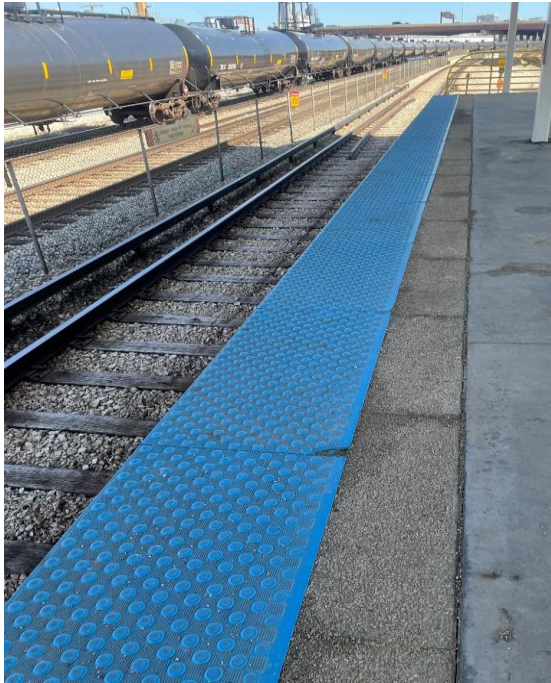


After

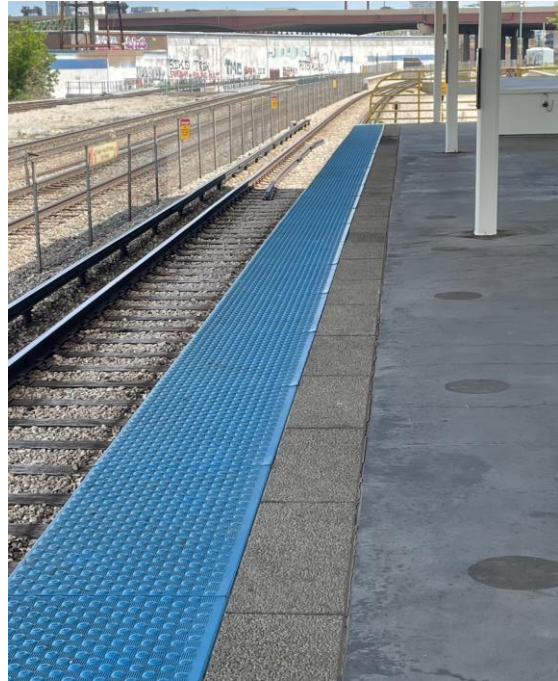


Montrose / Brown Line – Paint all staircases and LED lighting conversion

Before



After



Halsted / Orange Line – Replace all damaged, broken and uneven tactiles on platform

Before



After



63rd & Archer – Scarify concrete floor and finish with epoxy finish



Project Title: Refreshed & Renewed

Before



After



63rd & Archer – Repair and repaint all damaged curbs, gutters and aprons throughout.



Project Title: Refreshed & Renewed

Before



After



Central & Harrison – Preplace damaged gutters throughout

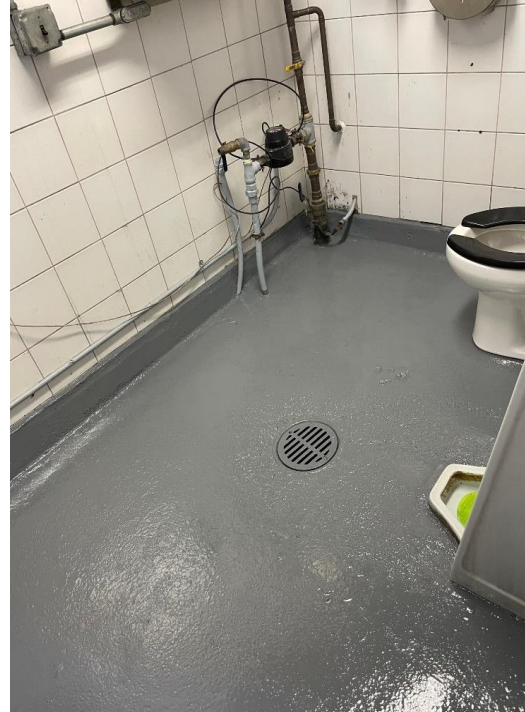


Project Title: Refreshed & Renewed

Before



After



Central & Harrison – Scarify concrete floor and finish with epoxy finish



Project Title: Refreshed & Renewed

Before



After



Chicago & Austin – Replace damaged concrete drive of the bus-turnaround

Before



After



Chicago & Austin – Replace damaged concrete drive of the bus-turnaround



Project Title: Refreshed & Renewed



Howard Station with Alderperson Hadden



Project Title: RED LINE EXTENSION

RLE Project Milestones

- Short-list prime contractors announced May 10, 2023:
 - FH Paschen, Ragnar Benson, Millhouse and BOWA Joint Venture
 - Kiewit Infrastructure
 - Walsh VINCI Transit Community Partners
- Transit Supportive Development Plan Adopted by City Council on May 18, 2023
- RFP to advertise to short-list primes in June 2023 and award in Q4-2024
- FTA Entry into Engineering expected June/July 2023
- Advanced Construction Management (CM) contract expected to be awarded in July 2023
- CM LIQ expected to be awarded in October 2023





Project Title: RED LINE EXTENSION

Outreach Events

Major Activities

Timing

Community outreach



Project Advisory Council meeting, June 5

- Press release: CTA Identifies Bidders for Red Line Extension Project: 1. FH Paschen, Ragnar Benson, Millhouse and BOWA Joint Venture; 2. Kiewit Infrastructure; 3. Walsh VINCI Transit Community Partners)
- Project Advisory Council-Workforce Subcommittee at Ware Ranch Steakhouse

May 12

June 5

Workforce and DBE outreach



- Meet the Short Listed Prime Contractors, CTA Headquarters
- Meet the Short Listed Prime Contractors, HACIA Membership Meeting
- Diversity Workforce Outreach, Kehrein Center: 5628 W. Washington

June 8

June 14

June 15

Upcoming:

- Meet the Short Listed Prime Contractors, Chicago Urban League: 4510 S. Michigan Ave.
- Meet the Short Listed Prime Contractors, HIRE360
- Diversity Outreach, JLM Abundant Life Community Center
- Meet the Short Listed Prime Contractors, NAMC: 645 E. 87th Street
- Meet the Short Listed Prime Contractors, Olive Harvey: 10001 S. Woodlawn

July 11

July 12

July 13

July 14

July 18



RLE VP TaNesheha Marshall, top, and CTA Chief Operating Officer Veronica Alanis speak at the Meet the Short Listed Prime Contractors event June 8, CTA HQ



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 - \$1,268,818,121	
Earned to Date:	64.9%	
Percent Change Orders to Construction Contract:	-0.27%	
Percent Time Used:	77.0%	
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. 	



Project Title: RPM Phase One – Design-Build Contract

Phase	Description	Status
<p>Administrative / Design:</p> <p>Construction:</p>	<ul style="list-style-type: none"> ▪ Continued submittal/revisions of required management plans ▪ Continued Design Development in support of Red-Purple Bypass, Lawrence to Bryn Mawr Modernization, and Corridor Signal Improvements <ul style="list-style-type: none"> ▪ Red-Purple Bypass (RPB). <ul style="list-style-type: none"> – Ravenswood structure rehabilitation – Clark Relay House power up and HVAC & Fire Suppression testing – North Mainline Stage 2 closed deck installation – Installation of signal cabling for permanent bypass track equipment – Installation of cable brackets below the new North Mainline structure ▪ Lawrence to Bryn Mawr Modernization <ul style="list-style-type: none"> – Pre-cast Segment fabrication – Bryn Mawr Temp Station construction (Stage B) – Argyle Temp Station construction (Stage B) – DF Track construction – Noisewall installation – Track installation – Superstructure finishing activities – Steel erection for the south transition bridge – Footwalk and Handrail installation – Installation of traction power elements including contact rail, ANR, brackets and cables – Installation of CCTV camera poles and cabling along the LBMM structure ▪ Corridor Signal Improvements (CSI) <ul style="list-style-type: none"> – Installation of snake tray and brackets in NM4 walkway south of Winona Ave – Installation of hangers and cabling inside and below the LBMM structure – Wiring and pre-testing of Winona Relay Room equipment on site – Installation of Berwyn Interlocking and Argyle Interlocking signal equipment – Installation of DGTrack track impedance bonds – Installation of Berwyn Interlocking LCP booth – Power up of Winona Relay Room and AC and DC power distribution testing 	<p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Complete</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Complete</p> <p>Ongoing</p>
<p>Delay Explanation:</p>		



Red-Purple Bypass



**North Main Line
Concrete Deck
Pour**



Red-Purple Bypass



**Replacement of
Cross Bracing**



Lawrence to Bryn Mawr Modernization



**Bryn Mawr Stage
B Temp Station
Exterior Siding
Installation**



Lawrence to Bryn Mawr Modernization



Argyle Temp Station Signage Brackets Installation



Lawrence to Bryn Mawr Modernization



**Special Track
Plinth
Installation**



Project Title: RPM Phase One – Design-Build Contract

	Outreach type	Major Activities	Timing
Community	    <p><i>RPM Open for Business images for campaign banners, digital ads and other promotional materials</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 • South East Asia Center – Embankment Wall Tour/Briefing • Uptown United Development Partners embankment wall removal plan update • Chicago Tonight story on RPM project progress • Edgewater Chamber of Commerce project update • May monthly “Virtual Office” Q&A with constituents 	<p>Weekly</p> <p>Bi-weekly</p> <p>April 18</p> <p>April 26</p> <p>May 5</p> <p>May 9</p> <p>May 10</p>
Workforce & SBE/DBE	 <p>CHICAGO COOK WORKFORCE PARTNERSHIP</p> <p>A proud partner of the American Job Center network</p> 	<ul style="list-style-type: none"> • Monthly DBE/Workforce Outreach & Compliance Meeting • DBE and Workforce Numbers as of 5/31/2023 • Dollars Awarded To Date: \$241,165,989 <ul style="list-style-type: none"> • Unique DBE Firms To Date: 96 • Unique Firms New to CTA: 40 • Total Labor Hours Produced: 1,290,527 • Total Dollars Earned: \$75,196,595 • Jobs created to date (construction trade labor on the design-build team): 1,876 individuals 	<p>Ongoing</p>