

Construction Project Briefing

November 14, 2018



Today's Presentation

- **ELMI – East Lake, Milwaukee, Illinois Substation Upgrade**
- **Ravenswood Loop Signals Upgrade Project**
- **95th Street Terminal Improvement Program**
- **Quincy Loop Station Upgrade**
- **Garfield Green Station Renovation**
- **Belmont and Jefferson Park Station Improvements (Blue Line)**
- **Red Purple Modernization Project**



Project Title: ELMI – East Lake, Milwaukee, Illinois Substation Upgrade

Justification of Need:	The existing traction power equipment at these substations is well past its useful life and needs to be replaced to assure reliable 600-volt DC traction power. Rehabilitate the substation buildings to a state of good repair.
Priority of Project:	High
Total Project Budget:	\$ 69M
Construction Contract Value:	\$ 42.9M
Earned to Date:	38%
Percent Change Orders to Construction Contract:	0
Percent Time Used:	55%
DBE:	Goal: 20% / Commitment: 20% Contract is on track to meet the DBE goal Outreach events conducted: 2 (CTA)
Funding Source:	CTA Bonds, RTA Bonds
Estimated Start Date/Estimated Length of Project:	NTP: April 10, 2017; Substantial Completion March 8, 2020
Designer of Record:	T.Y. Lin International
Construction Manager/General Contractor:	STV

Detailed Overview of Scope:

Rehabilitation of existing buildings and building envelopes to a state of good repair at East Lake, Milwaukee, and Illinois. Scope of work includes replacement of roof, tuck-pointing, hazardous material abatement, structural repairs and improvements, plumbing and mechanical repairs and improvements, and electrical repairs and improvements.

Replace existing AC/DC conversion equipment at all locations and getaway cables at East Lake.

Part of the scope of this project includes CTA purchasing 10 East Lake from ComEd.



Project Title: ELMI – East Lake, Milwaukee, Illinois Substation Upgrade

Impact on Customers:	There will be minimum impact to CTA customers.
Benefit to System:	<ul style="list-style-type: none">• Additional traction power capacity• Reduced traction power related train defects• Improved reliability for revenue service• Improved safety
Benefit to Community:	Improved Reliability and Safety
Impact on Accessibility:	None
Estimated # of Jobs Created:	897 indirect, 188 direct
Customer Communication Need:	Construction activity notices will be provided to inform businesses and residents regarding temporary construction impacts (noise, dust, street/alley closures) throughout the project.

Comparable Projects:

- Traction Power Systems Upgrades and Improvements Kimball, Princeton, and State Substation Projects.



Project Title: ELMI – East Lake, Milwaukee, Illinois Substation Upgrade

Construction Progress

Phase	Description	Status
Construction	<ul style="list-style-type: none"> • Traction power testing has started at Illinois Substation. Anticipated testing completion is November 2018. • Traction power cable installation has started at Illinois and Milwaukee Substation • All of the DC Switchgear is in service. • Transformers, Rectifiers and AC Switchgear are being delivered to Milwaukee Substation. • Demolition of existing traction power equipment has started at Illinois and Milwaukee. • Manufacturing of traction power equipment is in progress at East Lake Substation. • Factory Acceptance Testing of traction power equipment at East Lake Substation is progressing. • Tuckpointing, masonry, demo, and lead paint abatement is in progress at East Lake Substation. 	<p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p>

Delay Explanation:

N/A



Project Title: ELMI – East Lake, Milwaukee, Illinois Substation Upgrade



Manhole Installation at Illinois Substation



Traction Power Cable Installation at Illinois Substation



Project Title: ELMI – East Lake, Milwaukee, Illinois Substation Upgrade



Electrical Work in the Cable Vault at Milwaukee Substation

ComEd Installing Cable at Milwaukee Substation



Project Title: Ravenswood Loop Signal Upgrade Project

Justification of Need:	The signal system for the Ravenswood Loop Connector section of the CTA Brown Line was originally commissioned in 1975. In order to decrease headways and improve reliability, the system will be replaced with a new system.
Priority of Project:	High
Total Project Budget:	\$ 50 M
Construction Contract Value:	\$ 32.6M
Earned to Date:	67.7% (thru Sept)
Percent Change Orders to Construction Contract:	0
Percent Time Used:	100%
DBE:	Goal: 10% / Commitment: 10% Contract is on track to meet the DBE goal. Outreach events conducted: 1 (CTA)
Funding Source:	CTA PBV, CTA Bonds, FTA
Start Date/Length of Project:	NTP: November 4, 2015; Substantial completion April 2, 2018 (Actual projected 4 th quarter 2018.)
Designer of Record:	Parsons Transportation
Construction Manager/General Contractor:	Parsons Brinckerhoff/Ragnar Benson Construction, LLC

Overview of Scope: The signal system upgrade will include the following features:

- Removal of all existing signal equipment, cabling, and signal platforms.
- Design & install new platforms, cabling, cable support brackets, and signal equipment.
- Communication network design, configuration, installation, and commissioning.



Project Title: Ravenswood Loop Signal Upgrade Project

Impact on Customers:	54 hour line cut to cut over new signal system.
Benefit to System:	<ul style="list-style-type: none"> • Decreased headways • More reliable equipment • More robust signal network • Better diagnostic abilities • More reliable track circuit indications • Added loss of shunt detection system • Optimized curve speeds (potentially reduce run times)
Benefit to Community:	<ul style="list-style-type: none"> • Maximizing number of trains allowed in the corridor. • Less customer inconvenience due to signal system malfunction.
Impact on Accessibility:	None
Estimated # of Jobs Created:	650 indirect, 136 direct
Customer Communication Need:	<ul style="list-style-type: none"> • Construction activity notices will be provided to inform businesses and residents regarding line cut and construction impacts (noise, dust, street/alley impacts) throughout the project.

Comparable Projects:

- Loop Signal Project
- Dearborn Signal Project



Project Title: Ravenswood Loop Signal Upgrade Project

Construction Progress

Phase	Description	Status
Construction	<ul style="list-style-type: none">• Installation of cable brackets and cable.	Complete
	<ul style="list-style-type: none">• Installation of foundations and structural steel to support new signal houses.	Complete
	<ul style="list-style-type: none">• Installation of new signal houses.	Complete
	<ul style="list-style-type: none">• Installation of new signal equipment.	Ongoing
	<ul style="list-style-type: none">• Integration and troubleshooting of new system.	Ongoing
	<ul style="list-style-type: none">• System Cutover.	Ongoing

Delay Explanation:

General Contractor's performance.



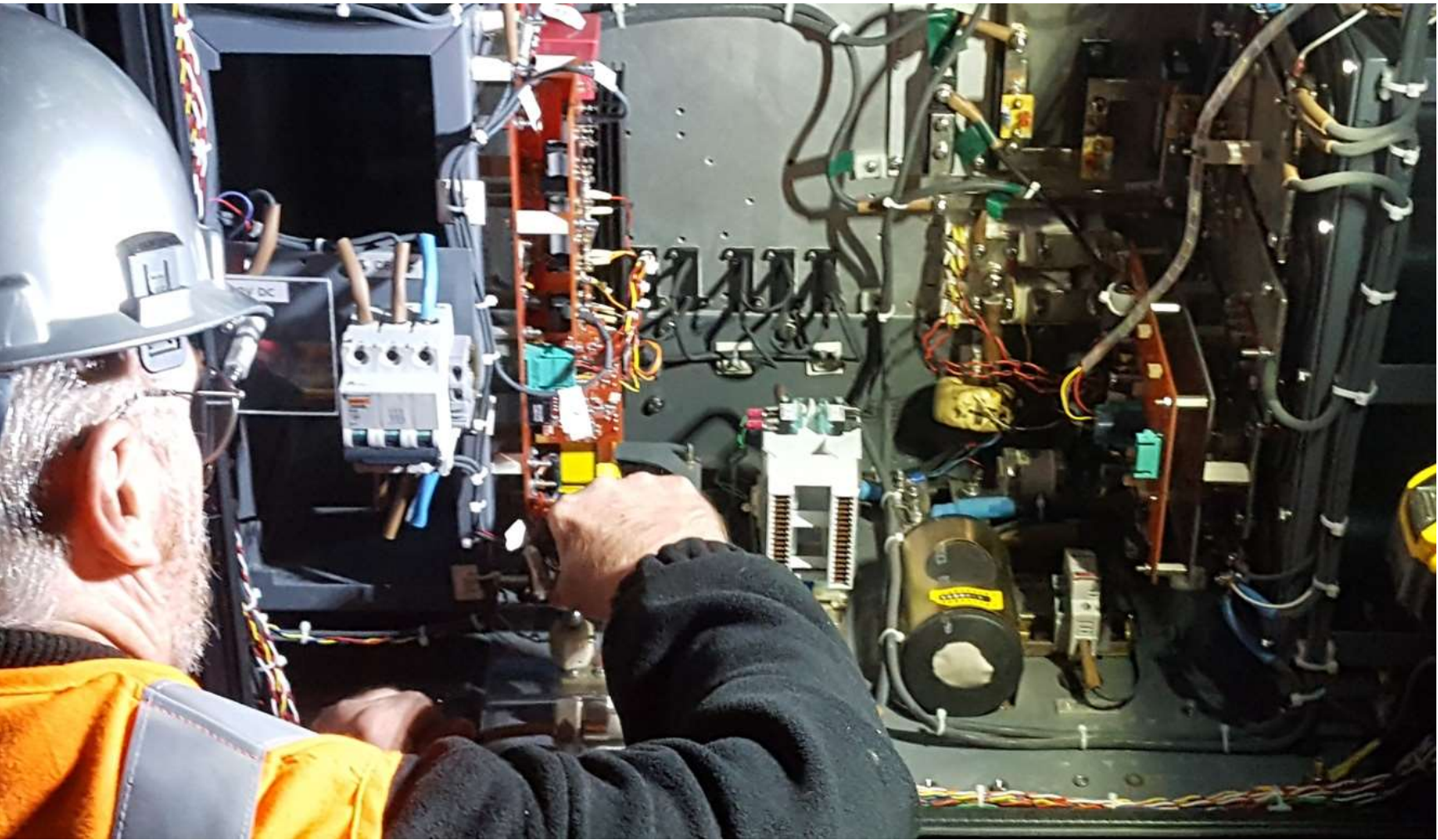
Project Title: Ravenswood Loop Signal Upgrade Project



Installation of Huron Crossover Local Control Panel House



Project Title: Ravenswood Loop Signal Upgrade Project



Final Wiring of Illinois House Inverter



Project Title: 95th Terminal Improvement Program

Justification of Need:	The terminal is functionally obsolete and does not allow for optimal bus operations and pedestrian flow.
Priority of Project:	High
Total Project Budget:	\$280 M
Construction Contract Value:	Advance Package 1: \$ 2,482,588 Advance Package 2: \$24,697,210 Main Terminal Contract: \$188,395,277
Earned to Date:	Advance Package 1: 100% Advance Package 2: 100% Main Terminal Contract: 74%
Percent Change Orders to Construction Contract:	Advance Package 1: (0.3%) Advance Package 2: 7% Main Terminal Contract: 4.7%
Percent Time Used:	Advance Package 1: 100% Advance Package 2: 100% Main Terminal Contract: 96%
DBE:	Advance Package 1: Goal: 30% / Commitment: 35.19% / Final Attainment*: 37.26% Advance Package 2: Goal: 30% / Commitment: 30% / Final Attainment*: 37.80% Main Terminal Contract: Goal: 27% / Commitment: 27% Contract is on track to meet the DBE goal Outreach events conducted: 8 *Attainment is based on progress payments and may vary over the life of the project
Funding Source:	Federal, State, Bond



Project Title: 95th Terminal Improvement Program

Estimated Start Date/Estimated Length of Project:	Main Terminal Contract: NTP: Nov 24, 2015; Substantial Completion Dec. 16, 2018
AP1/AP2 Construction Manager/General Contractor:	Walsh / II in One JV
Main Terminal Contractor:	F.H. Paschen / Milhouse JV
Owners Representative:	Jacobs/SQN JV

Detailed Overview of Scope:

The 95th Terminal Improvement Project will create new South and North terminal buildings at 95th on the Dan Ryan Red Line. The new terminal buildings will create a functional and efficient intermodal facility to enhance bus service and improve pedestrian safety. Scope includes the replacement and expansion of the terminal and platform and the addition of bus and pedestrian bridges. New administrative office space will be built and new bus bays will be provided around the terminal buildings.



Project Title: 95th Terminal Improvement Program

Impact on Customers:	Track closures and weekend station closures during construction. Temporary relocation of certain bus operations to nearby streets during construction phasing.
Benefit to System:	Improved customer circulation and safety by relieving congestion. Improved bus service and improved pedestrian safety.
Benefit to Community:	Improved pedestrian safety with new pedestrian bridge over 95 th Street, longer train platform extending to the new South Terminal Building.
Impact on Accessibility:	New south and north terminal buildings with improved accessible routes to buses.
Estimated # of Jobs Created:	3,640 indirect, 762 direct
Customer Communication Need:	Requires periodic track closures and possible station closures with bus shuttle service. Bus Operations may be relocated to adjacent streets during certain phases of construction.

Comparable Projects:
<ul style="list-style-type: none"> Wilson Station



Project Title: 95th Terminal Improvement Program

Construction Progress

Phase	Description	Status
Construction	<ul style="list-style-type: none"> ▪ South Terminal: <ul style="list-style-type: none"> ▪ Various punchlist work is ongoing. ▪ Building systems commissioning and training of CTA Maintenance personnel is ongoing. ▪ North Terminal Building: <ul style="list-style-type: none"> ▪ Interior room and wall construction is ongoing. ▪ Curtainwall panels and glazing installation is ongoing. ▪ Electrical conduit/wire rough-ins and plumbing installation is ongoing. ▪ Two of four escalator trusses and one stair truss are installed. ▪ Escalator and elevator component and wiring installation is ongoing. ▪ North Terminal electrical switch gear and feeder tie-in is complete. ▪ North Terminal Bus Area: <ul style="list-style-type: none"> ▪ East side bus area and approach slab concrete is complete. ▪ West side bus canopy steel and purlin installation is complete. ▪ Preparation for west side bus area concrete is ongoing. ▪ North Bus Bridge deck framing and rebar work complete. ▪ 96th relay house was delivered. ▪ 96th relay house wiring work and cable install is ongoing. 	<p>Ongoing Ongoing</p> <p>Ongoing Ongoing Ongoing Complete Ongoing Complete</p> <p>Complete Complete Ongoing Complete</p> <p>Complete Ongoing</p>
Delay Explanation:		
N/A		



Project Title: 95th Terminal Improvement Program



North Terminal Building – Looking North from ST Roof



Project Title: 95th Terminal Improvement Program



North Terminal North Prow – Looking South from State Street



Project Title: 95th Terminal Improvement Program



North Terminal Curtainwall / Metal Panel Installation



Project Title: 95th Terminal Improvement Program



North Terminal Building – Looking from 95th/State St.



Project Title: Quincy Loop Station Upgrade

Justification of Need:	The Station is not currently accessible. The project will provide another accessible Loop station, as well as provide additional repairs and improvements throughout the station.
Priority of Project:	High
Total Project Budget:	\$18M
Construction Contract Value:	\$11.7M
Earned to Date:	80%
Percent Change Orders to Construction Contract:	0
Percent Time Used:	100%
DBE:	Goal: 30%, Commitment: 30% Contract is on track to meet the DBE goal Outreach events conducted: 1 (CTA)
Funding Source:	TIF, CTA Bonds
Estimated Start Date/Estimated Length of Project:	NTP: July 27, 2016; Contract substantial Completion, February 1, 2018 (Actual projected – 4 th Qtr. 2018)
Designer of Record:	Exp US Services
Construction Manager/General Contractor:	Parsons Brinckerhoff/Ragnar Benson Construction, LLC

Detailed Overview of Scope: The station will include the following features:

- Two (2) new Elevators with connection bridges to stationhouses.
- One new exit stair.
- New electrical service.
- New and upgraded Electrical fixtures.
- Painting upgrades.
- Replacement of existing wood floors with new tile floors at both stationhouses.



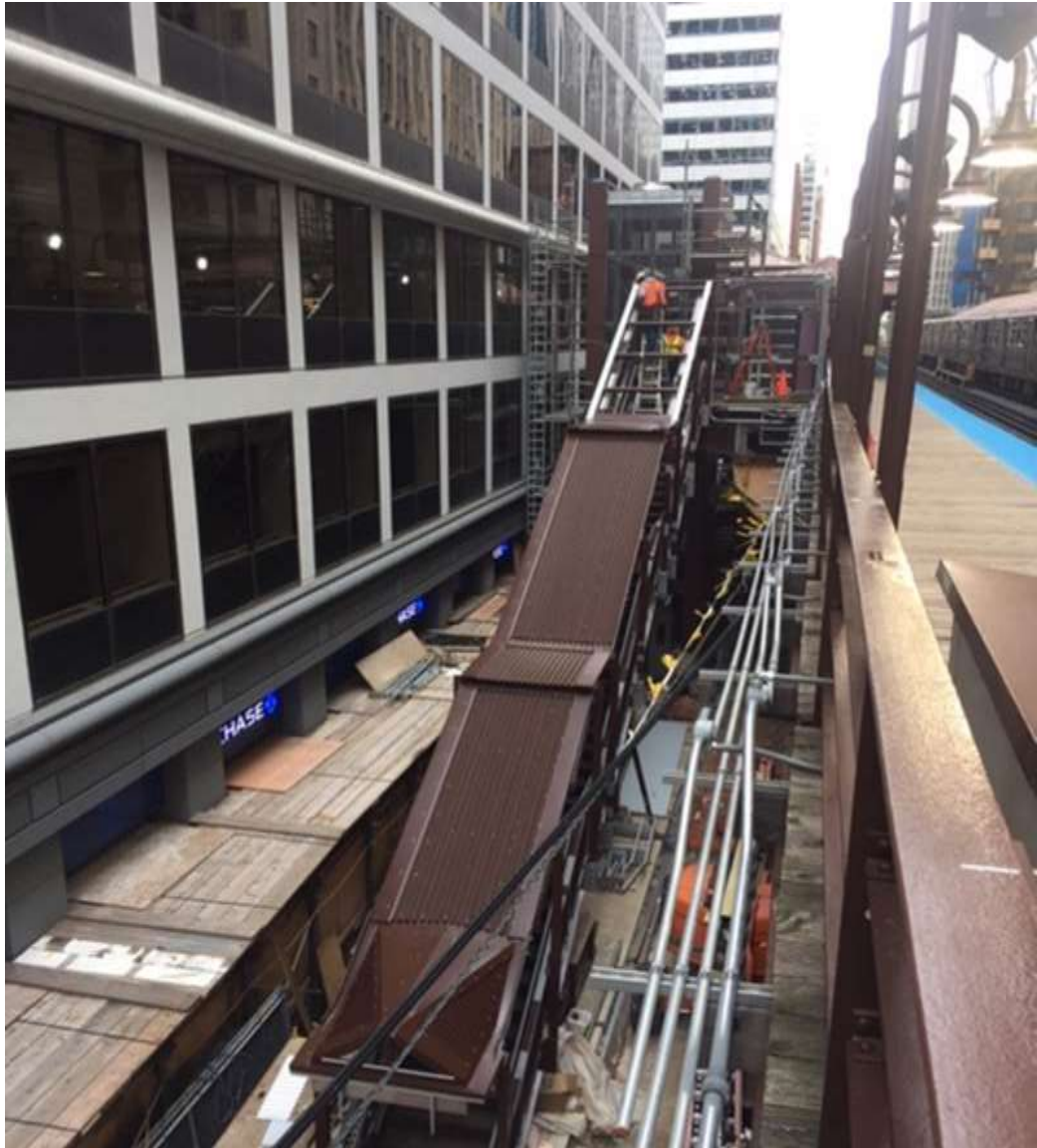
Project Title: Quincy Loop Station Upgrade

Construction Progress

Phase	Description	Status
Construction	<u>Street Level, East Side:</u>	
	• East elevator cab flooring installation continues.	Ongoing
	• Elevated connection bridge walkway build out continues with lighting, and roof deck installations.	Ongoing
	• East elevator control closet metal panels installation continues.	Ongoing
	<u>Street Level, West Side:</u>	
	• West elevator cab flooring installation continues.	Ongoing
	• Elevated connection bridge walkway build out continues with lighting and roof deck installations.	Ongoing
	• West elevator control closet metal panels installations continues.	Ongoing
	<u>Other planned activities:</u>	
	• Electrical conduit /wiring installation throughout the station continues.	Ongoing
	• New janitor closets build out continues with doors and panel installation.	Ongoing
	• New drop metal ceiling installation and lighting at mezzanine level continues.	Ongoing
	• New station access ADA doors installation continues .	Ongoing
• New exit stair installation build out continues with roofing and painting	Ongoing	
• Street site work, light poles, concrete sidewalk and curbs continues.	Ongoing	



Project Title: Quincy Loop Station Upgrade



New West Stair Build Out



Project Title: Quincy Loop Station Upgrade



New East Elevator



Project Title: Garfield Green Station Renovation

Justification of Need:	The purpose of the project is to upgrade and enhance The Garfield Gateway, as well as create a transit gateway to the community. The project will increase pedestrian access and flow at the operational station with a variety of streetscape improvements, including crosswalk enhancements, new lighting, bike racks, landscaping, and traffic control devices. Also, the original historic landmark street level station will be refurbished.
Priority of Project:	High
Total Project Budget:	\$42 M
Construction Contract Value:	25,978,000
Earned to Date:	21% (thru Oct 11)
Percent Change Orders to Construction Contract:	0%
Percent Time Used:	63.4%
DBE:	DBE Goal: 30% Contract is on track to meet the DBE goal Outreach events conducted: 2 (CTA HQ & Arts Incubator)
Estimated Start Date/Estimated Length of Project:	NTP: October 25, 2017 Substantial Completion : January 8, 2019
Designer of Record:	Walsh Construction Company / Exp US Services
Construction Manager / Owners Representative:	Arcadis

Detailed Overview of Scope:

This Project will bring elements of Garfield Station and the historic station to a state of good repair and enhance the aesthetics of the station. A new platform slab will be installed along with new furniture, signage, and mid-platform exit stairs. A new canopy will be placed that extends to an 8 car length and will have new LED light fixtures and new speakers. The historic track structure will be painted and new access stairs will be installed. The operational stationhouse will be refinished, a new escalator to the southbound tracks will be installed, and existing elevators will be improved. Street level improvements include bike lanes, a new bus stop configurations, and a new walkway.



Project Title: Garfield Green Station Renovation

Impact on Customers:	<p>Track Occurrences</p> <ul style="list-style-type: none"> • 30 Nightly Single Tracks • Maximum 6 Weekend Line cuts <p>Operational Stationhouse Closure</p> <ul style="list-style-type: none"> • 90 day closure of operational stationhouse. (Once temp. station is complete) • 14 day platform closure: per platform. (Back riding on each side) • Construction of temporary stationhouse just north of stationhouse.
Benefit to System:	Increased reliability and safety for customers, rail and bus operations.
Benefit to Community:	The overall aesthetics of the Garfield station, historic station, and the track structure will be improved. New LED light fixtures, platform furniture, speakers and communications, and mid-platform exit stairs will also be added. There will also be improvements to the streetscape (bus stop, landscaping) and the parking lot.
Impact on Accessibility:	The current elevator will be improved and a new escalator will be added to the Southbound tracks. New speakers and new signage.
Estimated # of Jobs Created:	114 indirect, 546 direct
Customer Communication Need:	Construction Activity Notices regarding construction-related impacts.

Comparable Projects:	
<ul style="list-style-type: none"> • Quincy Loop Station Upgrade 	



Project Title: Garfield Green Station Renovation

Construction Progress

Phase	Description	Status
Construction	<ul style="list-style-type: none"><li data-bbox="411 318 919 344">• North Stairs Structural Steel installation.<li data-bbox="411 365 778 391">• Build Temporary Fare Area.<li data-bbox="411 412 987 438">• Demolish Stub Columns & Existing Guardrail.<li data-bbox="411 459 865 485">• Install Underground Sewer Utilities.<li data-bbox="411 506 784 532">• Demolition of East Elevator.<li data-bbox="411 554 790 579">• Platform Canopy Installation.<li data-bbox="411 601 987 626">• Platform Topping Removal and Replacement.<li data-bbox="411 648 797 674">• West Elevator Modernization.<li data-bbox="411 695 838 721">• Painting Historic Track Structure.<li data-bbox="411 742 745 768">• Stationhouse Demolition.	Completed Completed Completed Completed Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing



Project Title: GARFIELD GREEN STATION RENOVATION



Garfield Elevator



Project Title: GARFIELD GREEN STATION RENOVATION



Garfield Platform



Project Title: Belmont and Jefferson Park Station Improvements

Justification of Need:	Most elements of the Belmont and Jefferson Park Stations have not experience major renovation or updating since being built in 1970. In order to bring both stations to a state of good repair, upgrades are required. In addition, Jefferson Park Bus Terminal will be brought up to current ADA standards.
Priority of Project:	High
Total Project Budget:	\$ 42.2 M
Construction Contract Value:	\$30.8 M
Earned to Date:	25.6% (thru Sept)
Percent Change Orders to Construction Contract:	0
Percent Time Used:	59.3%
DBE:	Goal: 30% / Commitment: 30% Contract is on track to meet the DBE goal Outreach events conducted: 2 (CTA HQ and Community First Hospital)
Funding Source:	CTA PBV, CTA Bonds, RTA Bonds, IDOT, FTA, TIF, TIFIA
Start Date/Length of Project:	NTP: October 16, 2017; Substantial completion Belmont & Jefferson Park Rail Stations: December 31, 2018; Substantial completion Jefferson Park Bus Terminal: July 8, 2019
Designer of Record:	EXP
Construction Manager/General Contractor:	Parsons Brinckerhoff/Walsh Construction

Overview of Scope: Both the Belmont and Jefferson Park Stations will be brought to a state of good repair. Scope of work includes electrical and lighting upgrades, floor replacements, sidewalk repair, updated signage, wall repairs, water mitigation, and improved customer amenities. Belmont will also receive a Gateway Canopy element that will invoke a sense of community and protect customers from the elements. Jefferson Park Bus terminal will be brought to current ADA standards via larger bus islands, improved lighting and signage, and repaired pavement and sidewalks.



Project Title: Belmont and Jefferson Park Station Improvements

Impact on Customers:	<ul style="list-style-type: none"> • 8 Weekend Station Closures at Belmont • Belmont Bus Turnaround Closed up to 90 Days for Construction • 8 Weekend Single Tracks • 45 Nightly Single Tracks • Longitudinal Partial Platform Closures: 3 weeks each side at Belmont and Jefferson Park • One half of Jefferson Park Bus Terminal Closed at a time (Bus stops temporarily relocated) during terminal construction
Benefit to System:	Extensive renovations to both stations. Jefferson Park Bus Terminal will meet current ADA standards..
Benefit to Community:	Improved reliability, safety and accessibility
Impact on Accessibility:	Improves accessibility in the Jefferson Park Bus Terminal.
Estimated # of Jobs Created:	546 indirect, 114 direct
Customer Communication Need:	Construction activity notices and customer notices will be needed to alert customers, businesses and residents to weekend and night work occurrences. Extensive communication will be required for weekend closures, extended partial platform closures, and bus terminal closures.

Comparable Projects:	
<ul style="list-style-type: none"> • O'Hare Line – Addison, Irving Park, Montrose, Harlem, and Cumberland Station Renovations 	



Project Title: Belmont and Jefferson Park Station Improvements

Construction Progress

Phase	Description	Status
Design	<ul style="list-style-type: none">• Achieve Final Design	Complete
Construction	<ul style="list-style-type: none">• Topping Slab Replacement at Belmont Platform	Complete
	<ul style="list-style-type: none">• Construction at Belmont Station	Ongoing
	<ul style="list-style-type: none">• Installation of Belmont Gateway Canopy	Ongoing
	<ul style="list-style-type: none">• Topping Slab Replacement at Jefferson Park Rail Station	Ongoing
	<ul style="list-style-type: none">• Construction at Jefferson Park Rail Station	Ongoing
	<ul style="list-style-type: none">• Construction at North Half of Jefferson Park Bus Terminal.	Ongoing
	<ul style="list-style-type: none">• Construction at South Half of Jefferson Park Bus Terminal.	Planned

Delay Explanation:



Project Title: Belmont and Jefferson Park Station Improvements



Site Work at Jefferson Park



PROJECT TITLE: BELMONT AND JEFFERSON PARK STATION IMPROVEMENTS



Site Work at Jefferson Park



Project Title: Belmont and Jefferson Park Station Improvements



Belmont - Structural Support for the New Canopy



Project Title: Belmont and Jefferson Park Station Improvements



Belmont – Rail Platform



Project Title: RPM Advance Contracts

Justification of Need:	<ul style="list-style-type: none"> • Advance Utility Relocation to relocate utilities in conflict with future RPM Phase One construction. • Demolition Work Orders: Two Mid-Con Work Orders to demolish buildings at 18 parcels to facilitate future RPM Phase One Construction.
Priority of Project:	High
Total Project Budget:	<ul style="list-style-type: none"> • Advance Utility Relocation: \$35,000,000 per Ordinance No. 017-53 • Demolition: \$4,380,195 • Part of RPM Phase One Project Budget of \$2.2B
Construction Contract Value:	<ul style="list-style-type: none"> • Advance Utility Relocation: \$8,277,145 (Work Orders Authorized) • Demolition: \$4,380,195
Earned to Date:	<ul style="list-style-type: none"> • Advance Utility Relocation: 25% • Demolition: 57%
Percent Change Orders to Construction Contract:	<ul style="list-style-type: none"> • Advance Utility Relocation: N/A • Demolition: 0%
Percent Time Used:	<ul style="list-style-type: none"> • Advance Utility Relocation: 31% • Demolition: 87%
DBE:	<ul style="list-style-type: none"> • Advance Utility Relocation: CTA Diversity continues to work with Utilities to provide opportunities for DBEs, MBEs, and WBEs. • Demolition: Work Orders are on track to meet the DBE goals of 30%
Funding Source:	CTA Bonds, FTA Core Capacity Grant, CMAQ, TIFs
Estimated Start Date/Estimated Length of Project:	<ul style="list-style-type: none"> • Advance Utility Relocation NTP: 06/25/18 (373 days) Planned Substantial Completion: 07/02/19 • Demolition NTP: 01/16/18 (322 Days) Planned Substantial Completion: 12/5/18



Project Title: RPM Advance Contracts

Designer of Record:	<ul style="list-style-type: none">• Advance Utility Relocation: Relevant Utility Agency• Demolition: CTA
Construction Manager/General Contractor:	<ul style="list-style-type: none">• Advance Utility Relocation: CM= WSP; GCs = Relevant Utility Agency or Contractor• Demolition: CM = WSP; GCs = ICC Group Inc. and John Burns Construction
<p>Detailed Overview of Scope:</p> <ul style="list-style-type: none">• Advance Utility Relocation: Relocate underground and overhead facilities ahead of track and station construction.• Demolition: Demolish properties needed for RPM Phase One ahead of track and station construction.	



Project Title: RPM Advance Contracts

Impact on Customers:	Periodic flagging activities while poles being set/removed. Flagging and Track Impacts during select demolition activities.
Benefit to System:	Reduces risk and duration for the future RPM Phase One Design-Build Project.
Benefit to Community:	Reduces risk and duration for the future RPM Phase One Design-Build Project.
Impact on Accessibility:	None
Estimated # of Jobs Created:	N/A
Customer Communication Need:	Construction Activity Notices will be provided to inform businesses and residents regarding temporary construction impacts (noise, dust, street/alley closures) throughout the advance work.

Comparable Projects:



Project Title: RPM Advance Contracts

Construction Progress

Phase	Description	Status
Design	<ul style="list-style-type: none">Advance Utility Relocation – Utilities are finalizing design and submittal Work Orders.	Ongoing
Construction	<ul style="list-style-type: none">Advance Utility Relocation – ComEd installing poles and duct bank.	Ongoing
	<ul style="list-style-type: none">Demolition Package 1 –All work is substantially complete.	Complete
	<ul style="list-style-type: none">Demolition Package 2 – Initial Submittals and Wrecking Permits are in process.	Ongoing
Close-Out	<ul style="list-style-type: none">Demolition Package 1 - Review of submittals of warranties and as-built drawings.	Ongoing

Delay Explanation:
N/A



Project Title: RPM Advance Utility Work and Property Demolition



Transformer Hookup in Alley South of Winona (left) and Conduit Installation in Alley South of Berwyn (right)



Project Title: RPM Broadway Substation Upgrade

Justification of Need:	The existing traction power equipment at these substations is well past its useful life and needs to be replaced to assure reliable 600-volt DC traction power. Rehabilitate the substation buildings to a state of good repair.
Priority of Project:	High
Total Project Budget:	\$25,954,699.00
Construction Contract Value:	\$14,500,000.00
Earned to Date:	\$3,780,381.00
Percent Change Orders to Construction Contract:	None at this time.
Percent Time Used:	54%
DBE:	Goal: 25% / Commitment: 25.17% Contract is on track to meet the DBE goal Outreach events conducted: 1 (CTA HQ)
Funding Source:	Federal and Local
Estimated Start Date/Estimated Length of Project:	NTP: August 2017 Substantial Completion August 2019
Designer of Record:	TY Lin
Construction Manager/General Contractor:	WSP

Detailed Overview of Scope:

Replace Broadway Substation traction power equipment and rehabilitate various structural, architectural, civil, mechanical, plumbing, and electrical elements.



Project Title: RPM Broadway Substation Upgrade

Impact on Customers:	None to minimum during construction.
Benefit to System:	<ul style="list-style-type: none">• Reliable rail service.
Benefit to Community:	Improved Reliability and Safety
Impact on Accessibility:	None
Estimated # of Jobs Created:	450 indirect and 95 direct
Customer Communication Need:	Construction activity notices will be provided to inform businesses and residents regarding temporary construction impacts (noise, dust, street/alley closures) throughout the project.

Comparable Projects:

- East lake Substation (Loop and Adjacent Lines)
- Milwaukee Substation (Blue Line)



Project Title: RPM Broadway Substation Upgrade

Construction Progress

Phase	Description	Status
Construction	<ul style="list-style-type: none"><li data-bbox="388 254 1522 315">• Cable bridge has been erected. Underground electrical ductbanks and plumbing in the Stage 3 slab replacement have been completed.<li data-bbox="388 351 1483 412">• Right-of-Way traction power cable replacement work, traction power equipment deliveries, and demolition, excavation, and replacement of remaining floor areas.<li data-bbox="388 448 1180 475">• Factory acceptance testing for the AC traction power equipment.	Completed Ongoing Ongoing

Delay Explanation:

N/A



Project Title: RPM Broadway Substation Upgrade



Cable Bridge Erection at Broadway Substation



Project Title: RPM Broadway Substation Upgrade



Rebar Installation and Concrete Pour at Broadway Substation

