Construction Project Briefing

October 14, 2015



Today's Presentation

- Traction Power
 - √ Kimball/Princeton/State Substations
- 95th Street Terminal Improvement Program
- Wilson Transfer Station, Track, and Structure Reconstruction
- Ravenswood Loop Connector Track Reconstruction
- North Main Line/Purple Line Express Track Improvement Project



Justification of Need:	Substation equipment is obsolete and has exceeded its current lifespan
Priority of Project:	High
Total Project Budget:	\$34,726,123
Construction Contract Value:	\$25,634,144
Earned to Date:	60%
% Change Orders to Construction Contract:	0%
Percent Time Used to Date:	91%
Funding Source:	Bonds
Estimated Start Date/Estimated Length of Project:	Design NTP - October 1 st , 2013 Start of Construction (240 days after NTP) – May 29 th , 2014 Substantial Completion (800 days after NTP) – December 10 th , 2015
Designer of Record:	Parsons Transportation Group
Construction Manager/General Contractor:	STV (CM), / Clark Construction
Project Manager:	Barney Gray (GM); Teresa Llorente (PM)

Detailed Overview of Scope:

Rehabilitation of existing buildings and building envelopes to a state of good repair at Kimball, Princeton and State. Replace existing AC/DC conversion equipment, getaway cables, enclosures, and switches with new equipment, cables, enclosures, and switches.

Perform an existing conditions survey of feeder cables and section tie switches within the Kimball Yard.

Enhance the negative return system on the ballasted portion of the Brown Line between Kimball Yard and the Western Avenue Incline.

Impact on Customers:	Three single tracks, and two reroutes. Street and lane closures around worksites, Brown Line crossing impacts.
Benefit to System:	Improve traction power capacity reduced traction power related train defects, improved reliability for revenue service, and improved safety.
Benefit to Community:	Improved reliability and safety.
Impact on Accessibility:	None.
Estimated # of Jobs Created:	49
Customer Communication Need:	Construction activity notices will be needed to alert businesses and residents to weekend, night work and power outages.

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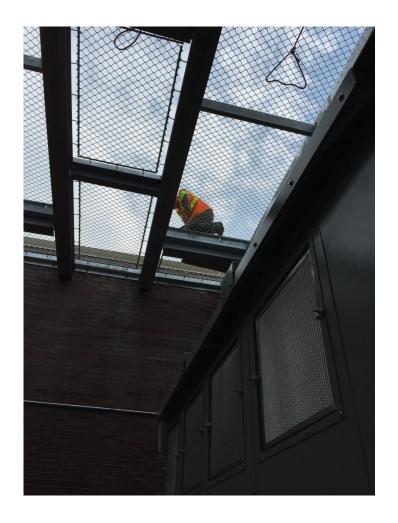
Construction Progress

Phase	Description	Status
Construction	 Kimball – Installation of second lineup completed. Field testing of equipment ongoing. Installation of interior light fixtures, mechanical and plumbing work and installation of courtyard steel and mesh panels completed. Princeton - Field testing and commissioning of second lineup completed. Installation of DC dielectric floor completed; installation of DC lineup continues. State – Painting of interior walls and installation of interior light fixtures completed. Installation of DC dielectric floor began. Demo of traction power equipment ongoing. Fabrication and factory testing of traction power equipment completed. Installation of first lineup completed. Interior mechanical, electrical, structural/architectural work continues. 	Ongoing

Delay Explanation:

N/A





Kimball Substation: Installation of Courtyard Steel Mesh Panels





State Substation: Area isolated for DC Dielectric Floor Installation



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:	\$240 M
Construction Contract Value:	Advance Package 1 (AP1): \$2,482,588 Advance Package 2 (AP2): \$23,330,834
Earned to Date Through End of August:	Advance Package 1: 100% Advance Package 2: 53%
Percent Change Orders to Construction Contract:	Advance Package 1: (0.3%) Advance Package 2: 1.2%
Percent Time Used Through End of September:	Advance Package 1: 100% Advance Package 2: 100%
Funding Source:	Federal, State, Bond
Estimated Start Date/Estimated Length of Project:	Advance Package 1: NTP Issued June 6, 2014 / 180 days Advance Package 2: NTP Issued July 24, 2014 / 300 days
Designer of Record:	Parsons Brinckerhoff, AP1 and AP2
Construction Manager/General Contractor:	Walsh/II In One JV, AP1 and AP2
Owners Representative:	Jacobs/SQN JV
Project Manager:	Katrina Denny (PM), Brittany Dyra (GM)

Detailed Overview of Scope:

The 95thTerminal 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.



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:	3,120 (Direct, Indirect and Induced), 652 (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:

Wilson Station

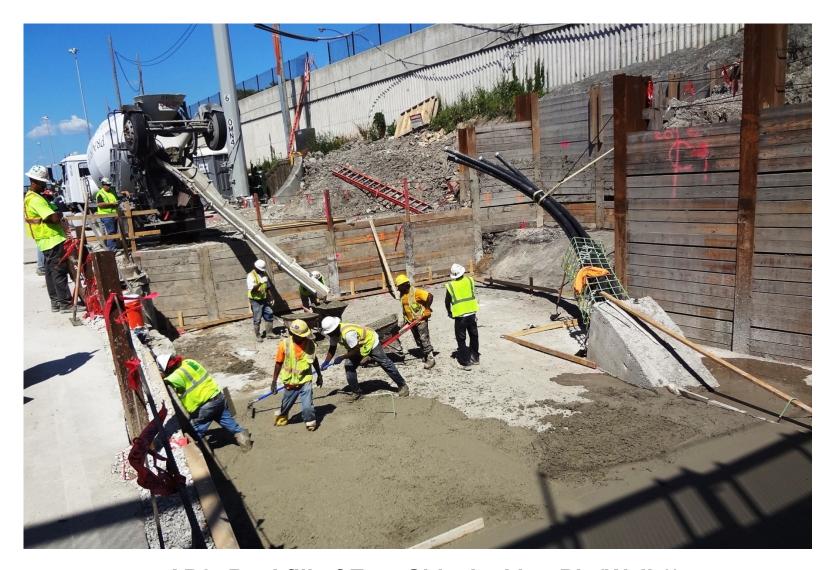


Construction Progress

Phase	Description	Status
Construction Advance Package 2: Dan Ryan Retaining Walls	 Work continues on the northwest quadrant (Wall 2) and northeast quadrant (Wall 6). All concrete work at southwest quadrant (Wall 1) was completed. Installed portions of the jack and bore casing on the west side. Concrete encased fiber optic ductbank installation continues on the east side. 	Ongoing
Close-Out Advance Package 1: Dan Ryan Tower Lights and Sign Relocation	 Documentation for Final Acceptance is being reviewed. Final Pay Application is under review. 	Ongoing
Procurement	Request for Proposals for Design Build Services was advertised on April 30, 2015. Proposals were received on August 18, 2015 and are under evaluation.	Ongoing

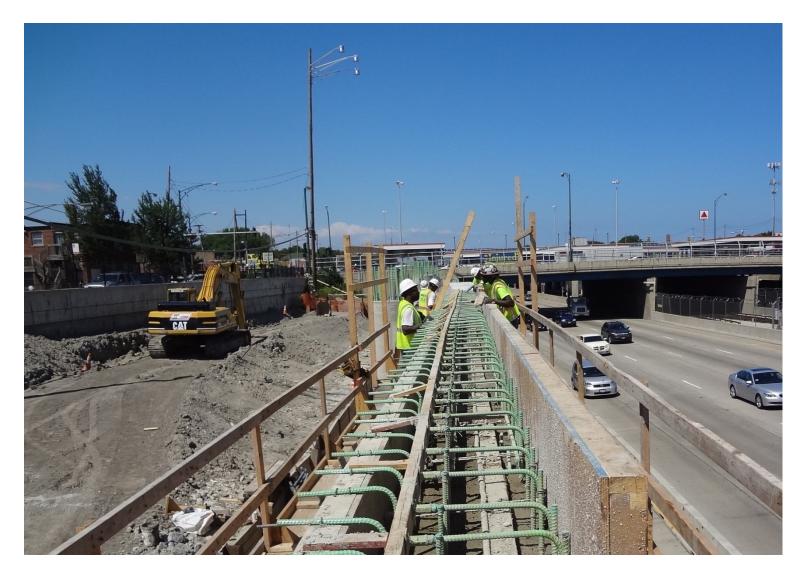
Delay Explanation:	
N/A.	





AP2: Backfill of East Side Jacking Pit (Wall 6)





AP2: South Bus Bridge Back Wall Reinforcement (Wall 1)





AP2: Jack and Bore Casing Installation on East Side (Wall 2)



Justification of Need:	The Station is functionally obsolete and does not allow for optimal transit operations
Priority of Project:	High
Total Project Budget:	\$206 M
Construction Contract Value:	\$ 152,370,000
Earned to Date:	17%
Percent Change Orders to Construction Contract:	(0.8 %)
Percent Time Used:	34%
Funding Source:	Federal, State, Bond and TIF
Estimated Start Date/Estimated Length of Project:	NTP 7/25/14; Substantial Completion 1/10/18
Designer of Record:	HNTB
Construction Manager/General Contractor:	Arcadis/Walsh/II In One JV
Project Manager:	Pedro Hurtado (PM), John Titzer (GM)

Detailed Overview of Scope: The station will replace the badly deteriorated station that was built in 1923. The station will have multiple entrances/exits and will include the following features:

- Two (2) new 26 foot 10 car concrete island platforms with full canopies
- New main station located on the south side of Wilson Ave, new auxiliary entrance/exit at Sunnyside Ave. and a new auxiliary entrance/exit on the north side of Wilson
- New elevators, escalators, lighting, signage, fare control, security cameras and art work
- Replace old existing elevated track structure with new track structure to accommodate the new station platform and the necessary infrastructure to support the new track alignment.



Impact on Customers:	There will be minimum impact to CTA customers
Benefit to System:	 New modern, more spacious and accessible stationhouse with three (3) entrances Upgraded track structure infrastructure and signals for more reliable service New transfer point between Red and Purple express rail lines
Benefit to Community:	 Modern facility with new system upgrades Easy access entrances through three (3) entry points Bigger platforms that will accommodate higher capacity for passengers to avoid overcrowding Platform canopies to protect customers from elements New ADA accessible station
Impact on Accessibility:	Station will be fully accessible upon completion
Estimated # of Jobs Created:	560
Customer Communication Need:	Construction activity notices will be provided to inform businesses and residents regarding temporary stations and construction impacts (noise, dust, street/alley impacts) throughout the project.

Comparable Projects:

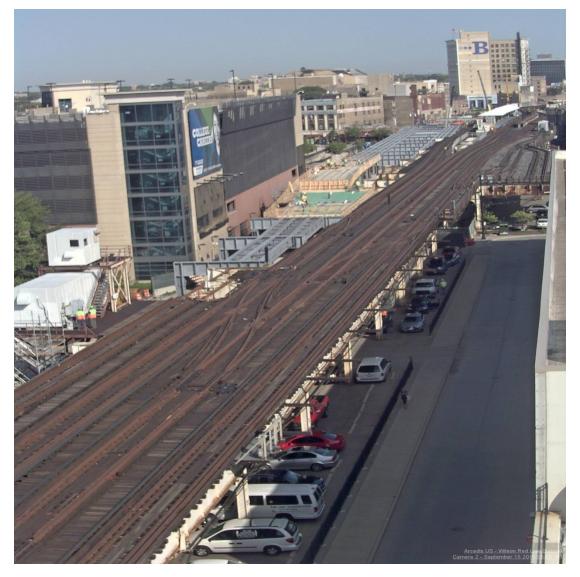
• 95th Station – Red Line



Construction Progress

Phase	Description	Status
Construction	Track Structure Foundations:	
Construction	A total of 57 caissons have been completed out of the 60 needed for Stage I. There are 3 caissons remaining to be drilled near Leland Ave. along with column's pedestals.	Ongoing
	Temporary shoring tower installations continues at north end of project.	Ongoing
	Steel Bents Structure:	
	To date 21 new steel bent structures and track stringers have been installed out of the 31 needed for stage 1.	Ongoing
	Concrete:	
	 Concrete track deck framing and rebar installation for track 1 have started. Framing started at south end in preparation for 1st elevated track pour. New concrete foundations for new ramps at Sunnyside entrance have started. 	Ongoing





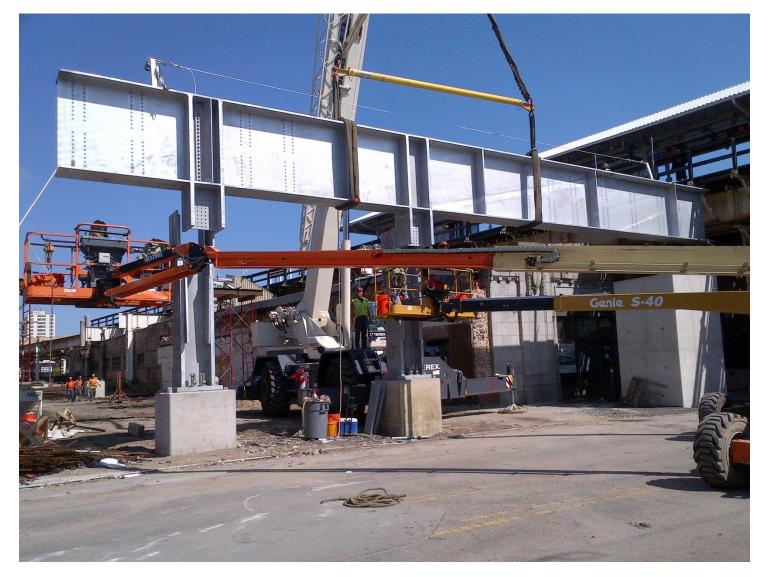
New Track 1 structure





New track 1 deck framing/rebar installation





New structural steel bent installation



Justification of Need:	Ties and rail beyond their useful life and require replacement
Priority of Project:	High
Total Project Budget:	\$57,243,294
Construction Contract Value:	\$40,346,442
Earned to Date:	85.5% (as of 9/15/15)
Percent Change Orders to Construction Contract:	0%
Percent Time Used to Date:	74.5% (as of 9/1/15)
Funding Source:	FTA/IDOT/CTA
Estimated Start Date/Estimated Length of Project:	NTP issued 10/3/14; substantial completion 12/22/15
Designer of Record:	T.Y. Lin
Construction Manager/General Contractor:	Kiewit Infrastructure Company (GC) Parsons Brinkerhoff (CM)
Project Manager:	Steven Mascheri (GM) Bill Polacek (PM)

Detailed Overview of Scope:

Replacement of ties and rail between from the south limit of the Armitage station to the south limit of the Merchandise Mart station. Work will be performed under a series of weekend line cuts.



Impact on Customers:	Fifteen (15) weekend line cuts in 2015. Limits of line cuts will vary between Armitage and the Merchandise Mart/Clark and Lake.
Benefit to System:	Improved reliability of track conditions, smoother ride for passengers.
Benefit to Community:	Improved reliability and travel times.
Impact on Accessibility:	None.
Estimated # of Jobs Created:	80
Customer Communication Need:	Construction activity notices will be provided to alert businesses and residents to weekend, night work.

Comparable Projects:

• Blue Line (Milwaukee) Track Renewal



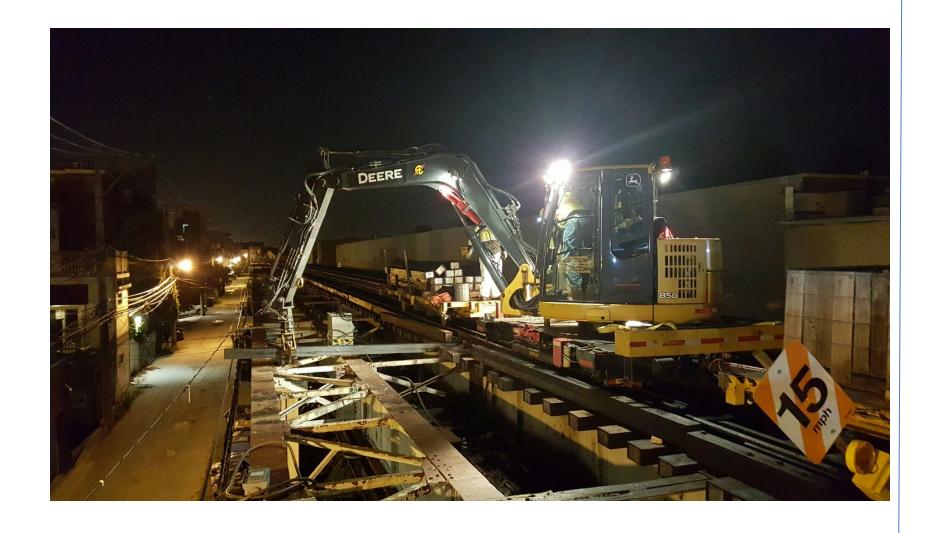
Construction Progress

Description	Status
 The first thirteen line cuts are complete. New track installed from Armitage Station to Sedgwick Station. 	Completed
Weekend line cuts scheduled through Fall 2015.	Ongoing
	The first thirteen line cuts are complete. New track installed from Armitage Station to Sedgwick Station.

Delay Explanation:

• N/A





Contractor installing new ties





Contractor Installing Contact Rail



Justification of Need:	The last major renewal of these tracks occurred in the early-mid 1970's. Aside from the spot replacement of a few ties along this track, the majority of ties along track 1 & 4 have reached the end of their useful life.	
Priority of Project:	High	
Total Project Budget:	\$28,396,026	
Construction Contract Value:	\$19,803,757	
Earned to Date:	27%	
% Change Orders to Construction Contract:	0%	
Percent Time Used to Date:	55%	
Funding Source:	CTA Bonds, Federal, PBV	
Estimated Start Date/Estimated Length of Project:	NTP – Issued May 18, 2015 Substantial Completion (190 days after NTP) – November 28, 2015	
Designer of Record:	CTA Engineering	
Construction Manager/General Contractor:	Parsons Brinkerhoff (CM), / Kiewit Infrastructure (GC)	
Project Manager:	Kevin Loughnane (GM); Charles Freeman (PM)	

Detailed Overview of Scope:

- Replacement of approximately 16,500 timber ties, plates and fasteners
- Restoration of track alignment, profile and cross-leveling
- · Ballast removal, grading, replacement, compaction and dressing
- Tie and fastener replacement at the Berwyn Crossovers Tracks 1 and 2
- Replacement of approximately 5500 linear feet of running rail on Track 4 from Lawrence to north of Bryn Mawr.
- Furnish and install new 115 lb. jointed rails, complete with joint bars, rail to rail joint bonds, fasteners.



Impact on Customers:	There will be some noise while work is being performed. Red and Purple Line service will experience impacts during weekend work.
Benefit to System:	Existing slow zones will be removed and allow for faster run times from Evanston to downtown. There will be improved reliability for revenue service, and improved safety.
Benefit to Community:	Improved reliability and safety and faster run times from Evanston to downtown.
Impact on Accessibility:	None.
Estimated # of Jobs Created:	100
Customer Communication Need:	Neighborhood aldermen and other community officials have been notified. Construction activity notices have been distributed to alert businesses and residents.

Comparable Projects:

• NA



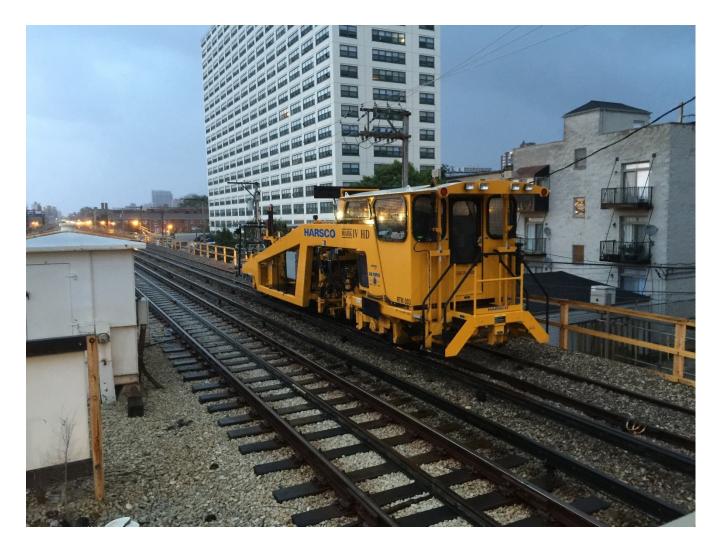
Construction Progress

Phase	Description	Status
Construction	 Pre-plating ties to prepare for installation. Hand rails installed along track 4. Surveys have been conducted along both tracks 1 and 4. 	Completed Completed Completed
	Tie replacement: completed tie replacement from Lawrence to Thorndale on track four.	On-going

Delay Explanation:

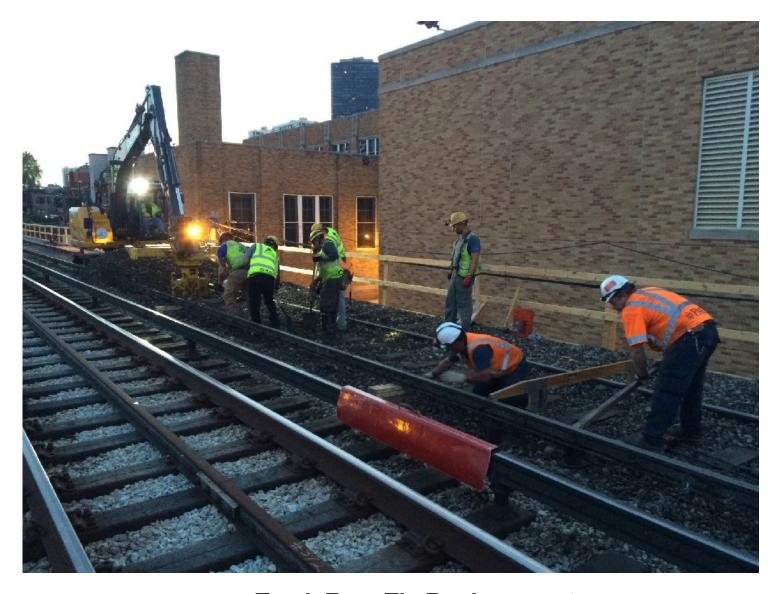
• Currently on-time on-schedule.





Tamping Machine





Track Four Tie Replacement

