

Construction Project Briefing

January 13, 2016



Today's Presentation

- **Traction Power**
 - ✓ **Kimball/Princeton/State Substations**
- **95th Street Terminal Improvement Program**
- **Wilson Transfer Station, Track, and Structure Reconstruction**
- **North Main Line/Purple Line Express – Track Improvement Project**
- **O'Hare Line – Addison, Irving Park, Montrose, Harlem and Cumberland Station Renovations (Your New Blue)**



Project Title: Traction Power Systems Upgrades and Improvements Kimball, Princeton, and State Substation Projects

Justification of Need:	Substation equipment is obsolete and has exceeded its current lifespan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:	95%
% Change Orders to Construction Contract:	0%
Percent Time Used to Date:	100%
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.



Project Title: Traction Power Systems Upgrades and Improvements Kimball, Princeton, and State Substation Projects

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.

Comparable Projects:

- NA



Project Title: Traction Power Systems Upgrades and Improvements Kimball, Princeton, and State Substation Projects

Construction Progress

Phase	Description	Status
Construction	<ul style="list-style-type: none">▪ Kimball – Field testing of equipment completed. Substantial Completion achieved. Punchlist work ongoing.▪ Princeton – Field testing of equipment completed. Substantial Completion achieved. Punchlist work ongoing.▪ State – Field testing of equipment completed. Interior mechanical, electrical, structural/architectural work substantially completed. Substantial Completion achieved. Punchlist work ongoing.	Ongoing

Delay Explanation:

- N/A



Project Title: Traction Power Systems Upgrades and Improvements Kimball, Princeton, and State Substation Projects



Princeton Substation: Substantial Completion

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: \$23,330,834 Main Terminal Contract: \$180,000,000
Earned to Date:	Advance Package 1: 100% Advance Package 2: 68% Main Terminal Contract: 0%
Percent Change Orders to Construction Contract:	Advance Package 1: (0.3%) Advance Package 2: 1.2% Main Terminal Contract: 0%
Percent Time Used:	Advance Package 1: 100% Advance Package 2: 100% Main Terminal Contract: 1%
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 Main Terminal Contract: NTP Issued Nov 24, 2015 / 1118 days
AP1/AP2 Construction Manager/General Contractor:	Walsh / II in One JV
Main Terminal Contractor:	F.H. Paschen / Milhouse JV
Owners Representative:	Jacobs/SQN JV
Project Manager:	Katrina Denny (PM), Brittany Dyra (GM)



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:	3,120 (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

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

Construction Progress

Phase	Description	Status
Construction Advance Package 2: Dan Ryan Retaining Walls	<ul style="list-style-type: none"> ▪ Backfill work at northeast quadrant (Wall 6) was finished. ▪ Support of Excavation work at the southeast quadrant (Wall 4) continued. ▪ Sewer installation complete at southeast quadrant (Wall 4). ▪ Reinforcement installed for the water main protection slab. 	Ongoing
Design/Pre-Construction Main Terminal Contract	<ul style="list-style-type: none"> ▪ Notice to Proceed was given to F.H. Paschen / Milhouse JV to begin work on the main terminal contract. ▪ Contractor submitted initial project deliverables and the design phase is underway. ▪ Construction to begin 2nd Quarter in 2016. 	Ongoing

Delay Explanation:
N/A.



Project Title: 95th Terminal Improvement Program



Earth Retention System for South Terminal Foundation Wall



Project Title: 95th Terminal Improvement Program



Water Main Protection Slab Reinforcement



Project Title: Wilson Transfer Station, Track & Structure Reconstruction

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:	28%
Percent Change Orders to Construction Contract:	(0.8 %)
Percent Time Used:	43%
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.



Project Title: Wilson Transfer Station, Track & Structure Reconstruction

Impact on Customers:	There will be minimum impact to CTA customers
Benefit to System:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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:
<ul style="list-style-type: none"> • 95th Station – Red Line



Project Title: Wilson Transfer Station, Track & Structure Reconstruction

Construction Progress

Phase	Description	Status
Construction	<ul style="list-style-type: none"> Structural concrete deck pour (1st Pour) and water proofing for track 1 has been completed. 	Completed
	<ul style="list-style-type: none"> All Structural Steel for track 1 and platform has been completed. 	Completed
	<ul style="list-style-type: none"> Pre-cast platform installation is 90% complete. 	Ongoing
	<ul style="list-style-type: none"> Canopy steel and elevator tower installation started and will continue into January 	Ongoing
	<ul style="list-style-type: none"> Track installation for new track 1 (2nd pour) is in progress. Track pours will continue into January 	Ongoing
	<ul style="list-style-type: none"> Wilson main station foundations continue to be poured 	Ongoing
	<ul style="list-style-type: none"> Open deck steel structure over Broadway and Leland will begin in mid December 	Ongoing
	<ul style="list-style-type: none"> Sunnyside ramp foundation work is on-going 	Ongoing

Delay Explanation:
N/A



Project Title: Wilson Transfer Station, Track & Structure Reconstruction



New Track Installation



Project Title: Wilson Transfer Station, Track & Structure Reconstruction



New Wilson Station Foundations



Project Title: NML – Purple Line Express – Track Improvement Project

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:	\$21,512,457
Earned to Date:	89%
% Change Orders to Construction Contract:	8.6%
Percent Time Used to Date:	95%
Funding Source:	CTA Bonds, Federal, PBV
Estimated Start Date/Estimated Length of Project:	NTP – Issued May 18, 2015 Substantial Completion (190 days after NTP) – December 21 st , 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.



Project Title: NML – Purple Line Express – Track Improvement Project

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:
<ul style="list-style-type: none">• NA



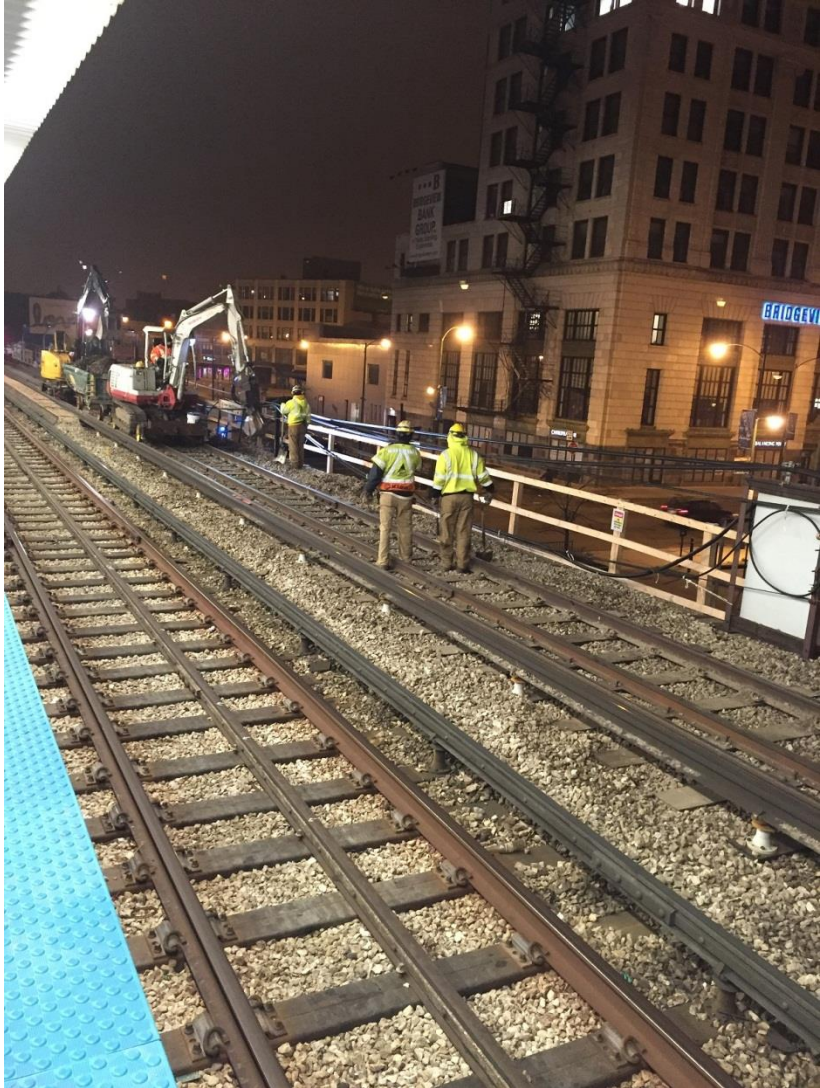
Construction Progress

Phase	Description	Status
Construction	<ul style="list-style-type: none">• Tie replacement is 100% complete.• Contact rail chair installation on track four is 100% complete.• 5,400 feet of old rail, cut out and replaced with new rail.• Rail bonding work is on-going.• Dressing and Cleaning all tracks.	On-going

Schedule Revision Explanation:
<ul style="list-style-type: none">• NA



Project Title: NML – Purple Line Express – Track Improvement Project



Track 1 gauging and alignment, cleaning of the track.



Project Title: O’Hare Line – Addison, Irving Park, Montrose, Harlem and Cumberland Station Renovations (Your New Blue)

Justification of Need:	To return the stations to a state of good repair. The Addison station will be made accessible with the addition of a new elevator.
Priority of Project:	High
Total Project Budget:	\$41,571,760
Construction Contract Value:	\$25,564,645
Earned to Date:	9.6%
% Change Orders to Construction Contract:	0%
Percent Time Used to Date:	42.6%
Funding Source:	Federal, State, Bond
Estimated Start Date/Estimated Length of Project:	Design NTP – April 23, 2015 Start of Construction (+/-187 days after NTP) – November, 2015 Substantial Completion (540 days after NTP) – October, 2016
Designer of Record:	Muller and Muller
Construction Manager/General Contractor:	Parsons Brinckerhoff (CM), / F.H. Paschen, S.N. Nielson (GC)
Project Manager:	Steven Mascheri (GM); Mario Battle (PM)

Detailed Overview of Scope:

The O’Hare Line- Addison, Irving Park, Montrose, Harlem and Cumberland Station Renovation Project will upgrade five stations along the O’Hare Blue Line. The project goals are to improve reliability, increase capacity and reduce travel time from downtown to the O’Hare airport station. The Addison station will receive an additional upgrade of an elevator to add accessibility for people with disabilities.

All stations will receive new platform edge and topping replacement. Platform furniture will be rehabilitated and replaced as needed. Light fixtures will be provided with new lamps & ballasts, in addition all five stations are to be painted.



Project Title: O’Hare Line – Addison, Irving Park, Montrose, Harlem and Cumberland Station Renovations (Your New Blue)

Impact on Customers:	<ul style="list-style-type: none"> • 146 maximum nightly single track occurrences • 21 maximum weekend single track occurrences Weekend station closures at Addison (4) and Montrose (2) • Partial platform closures (longitudinal) – 3 weeks per side at: <ul style="list-style-type: none"> • Addison, Irving Park, Montrose, Harlem • Various station entrance closures at Irving Park, Cumberland, and Montrose
Benefit to System:	Extensive renovations at all stations. Addison station will become ADA compliant.
Benefit to Community:	Improved reliability, safety and accessibility
Impact on Accessibility:	Improves accessibility by providing elevator at Addison.
Estimated # of Jobs Created:	Approximately 75
Customer Communication Need:	Construction activity notices will be needed to alert customers, businesses and residents to weekend and night work occurrences. Extensive communication will be required for weekend closures and for extended partial platform closures.
Comparable Projects:	
<ul style="list-style-type: none"> • Red Line South Dan Ryan station renovations 	



Project Title: O'Hare Line – Addison, Irving Park, Montrose, Harlem and Cumberland Station Renovations (Your New Blue)

Phase	Description	Status
Design	<ul style="list-style-type: none"> ▪ Design for station renovations including new elevator and stair at Addison 	Ongoing
Construction	<ul style="list-style-type: none"> ▪ Construction started November 2015. 	
Addison Platform Extension (35')	<p>Planned activities (December 2015)</p> <ul style="list-style-type: none"> • Install new canopy steel. • Place concrete topping slab. • Install relocated access stair. • Clean and open extension. 	Ongoing
Addison Stair Installation	<ul style="list-style-type: none"> • Demolish platform canopy roof and steel sections. • Install micro piles • Install of new staircase from stationhouse to platform level. Stationhouse to be installed after completion of platform extension. 	Starting Q1 2016
	<ul style="list-style-type: none"> • Construction of remaining four (4) stations. 	Starting Q2 2016

Delay Explanation:

- N/A



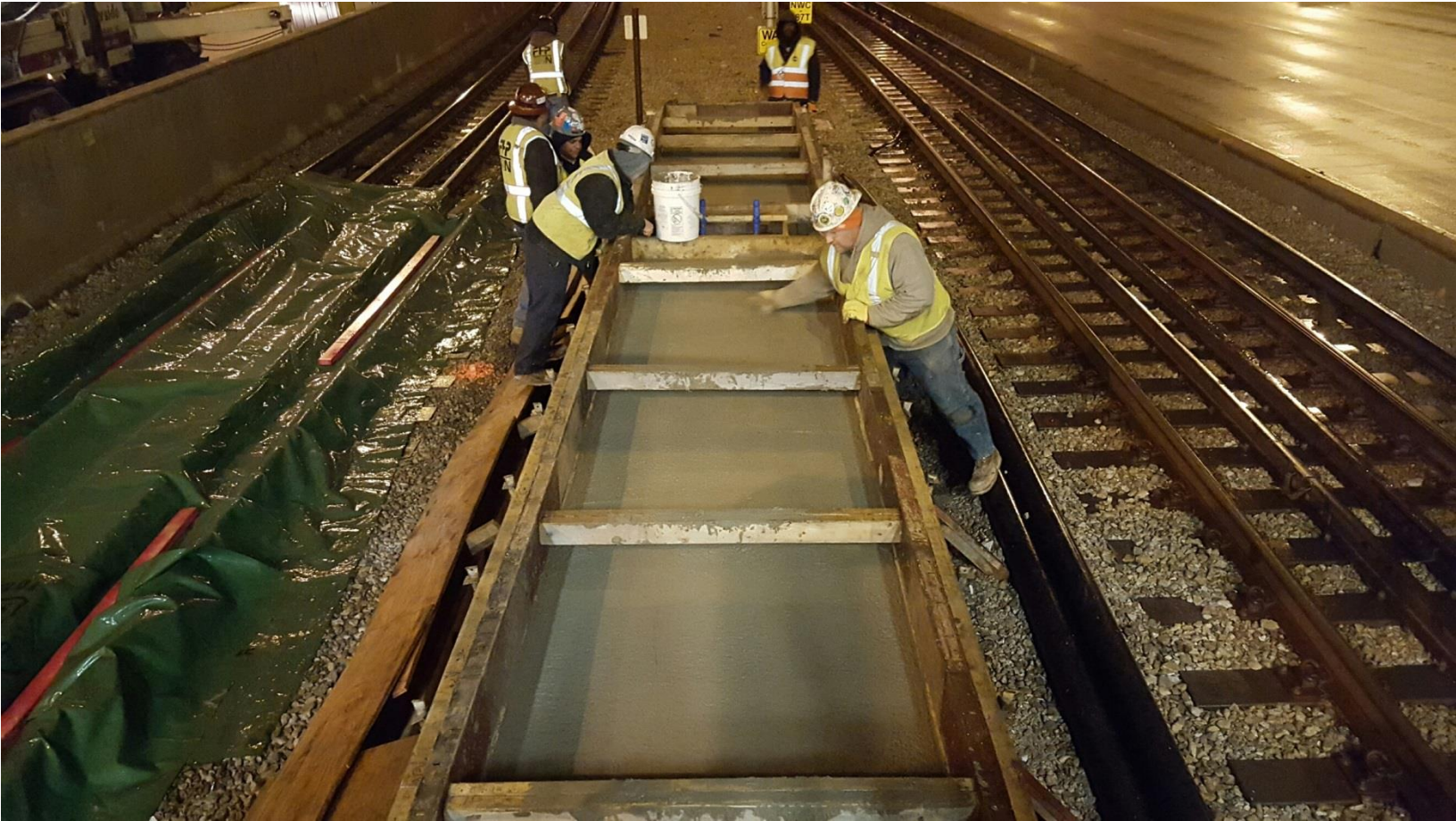
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Addison Caisson Cap Form Work



Project Title: O'Hare Line – Addison, Irving Park, Montrose, Harlem and Cumberland Station Renovations (Your New Blue)



Addison Caisson Cap Installation



Project Title: O'Hare Line – Addison, Irving Park, Montrose, Harlem and Cumberland Station Renovations (Your New Blue)



Addison Precast Platform Panel Placement

