

Construction Project Briefing

March 12, 2014



Today's Presentation

- Traction Power - Farwell/Armitage/Hill Substations
- 18th Connector Track and Structure Renewal
- Bus Hoist Replacement Program
 - ✓ Phase 1 – Forest Glen, South Shops, 77th Street Bus Garage
 - ✓ Phase 2 – Kedzie Bus Garage
 - ✓ Phase 2 – North Park Garage
 - ✓ Phase 2 – Chicago and 103rd Garage
- Milwaukee Blue Line Track Renewal



Project Title: Traction Power Systems Upgrades and Improvements

Justification of Need:	Substation equipment is obsolete and has exceeded its current lifespan
Priority of Project:	High
Total Project Budget:	\$56,918,563.00
Construction Contract Value:	\$46,684,000.00
Earned to Date:	32%
Percent Change Orders to Construction Contract:	0%
Percent Time Used to Date:	65%
Funding Source:	State Capital Program
Estimated Start Date/Estimated Length of Project:	NTP issued August 30, 2012; substantial completion 810 days after NTP
Designer of Record:	Laramore, Douglass and Popham (LDP)
Construction Manager/General Contractor:	STV (CM), F.H. Paschen (GC)
Project Manager:	Barney Gray (GM); Premal Vora (PM)

Detailed Overview of Scope:

Construct Three (3) New Traction Power Substations namely, Farwell, Armitage, Hill

Modify Orleans Switch Room
 Modify Weed Switch Room
 Modify Sedgwick Substation



Project Title: Traction Power Systems Upgrades and Improvements

Impact on Customers:	Nine single tracks, and six reroutes. Street and lane closures around worksites, curtailed access to resident garages (at Armitage).
Benefit to System:	Additional traction power capacity reduced traction power related train defects, improved reliability for revenue service, and improved safety.
Benefit to Community:	Improved safety.
Impact on Accessibility:	None.
Estimated # of Jobs Created:	89
Customer Communication Need:	Construction activity notices will be needed to alert businesses and residents to weekend, night work and power outages.

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



Project Title: Traction Power Systems Upgrades and Improvements

Construction Progress

Phase	Description	Status
Construction	<ul style="list-style-type: none">▪ Farwell – Dielectric flooring has been installed, and passed initial tests. Exterior masonry work is complete (with the exception of the west wall – requires warmer weather due to space constraints). Site utilities are being installed.▪ Armitage – CTA track column replacement work continues with earth retention installation, excavation, lagging and bracing installation followed by temporary shoring in order to remove and replace twenty-seven column foundations. De-watering of the site will begin once the exterior column foundations have been replaced. Site utilities will be installed this quarter.▪ Hill – Exterior masonry work is on going. Interior finishing, including painting and utility rough in, is on going. Ductbank work is continuing, with earth retention installation and excavation, followed by conduit installation.	Ongoing

Delay Explanation:
<ul style="list-style-type: none">• Due to testing challenges, traction power equipment could not be shipped until it was repaired and passed re-testing.• Unforeseen underground conditions and a high water table have been encountered within CTA Right of Way at Armitage Substation, creating delay and requiring a site dewatering plan for future excavation work.• Unsuitable soils and unforeseen underground conditions have been encountered within CTA Right of Way in the Hill Ductbank installation.



Project Title: Traction Power Systems Upgrades and Improvements

Managing Department: Power & Way Construction



Farwell Substation: east wall exterior masonry

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Armitage Substation: removing shoring from Bent 4069



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Managing Department: Power & Way Construction



Hill Substation: north wall exterior masonry

Project Title: Traction Power Systems Upgrades and Improvements



Hill Ductbank: boring north under Hill St. from jacking pit



Project Title: 18th Connector Track and Structure Renewal

Justification of Need:	The existing ties, rail and track components, as well the underlying ballast and drainage systems have reached or exceeded their useful life.
Priority of Project:	High
Total Project Budget:	\$425M
Funding Source:	RTA/IDOT CTA-2012-LI; City of Chicago TIF
Designer of Record:	T.Y. Lin International; TranSystems Corporation
Construction Manager:	Parsons Brinckerhoff
Project Manager:	Robert Wittmann (GM); Brittany Dyra (PM)
	Track Renewal/18th Connector
Construction Contract Value:	\$220,129,367
Earned to Date:	\$187.9M
Percent Change Orders to Construction Contract:	0.0%
Percent Time Used to Date:	68.3% (as of February)
Estimated Start Date/Estimated Length of Project:	Notice To Proceed: October 4, 2012 Substantial Completion: October 24, 2014
General Contractor:	Kiewit Infrastructure Co.



Project Title: 18th Connector Track and Structure Renewal

Construction Progress

Phase	Description	Status
Construction	Kiewit Infrastructure Co. (KIC) is preparing for upcoming work along the 18 th Connector. The scope of this work includes replacement of various track components including ties, rail, ballast, drainage, contact rail and the installation of a new walkway. In addition, KIC will complete structure painting.	Ongoing

Delay Explanation:

- N/A



Project Title: 18th Connector Track and Structure Renewal



18th Connector

Project Title: Bus Hoist Replacement Program

Justification of Need:	The existing bus hoists are beyond their useful life and many are not functioning.:			
Priority of Project:	High			
Construction Phase	Phase 1: 77 th /SS/ Forest Glen	Phase 2: Kedzie	Phase 2: North Park	Phase 2: Chicago/103 rd
Bus Hoist Equipment Contract Value:	\$1,668,052	\$1,163,892	\$779,769	\$1,066,901
Construction Contract Value:	\$2,663,345	\$3,145,143	\$1,869,630	\$2,820,651
Value Earned to Date (Construction and Hoists):	\$4,288,084	\$4,227,808.00	\$2,551,989	\$1,188,327
Percent Change Orders to Construction Contract:	25%	0%	0%	0%
Percent Time Used to Date:	99%	99%	95%	30%
Estimated Start and Completion Date:	NTP 11/21/12 Projected completion 10/18/13.	NTP 3/4/13 Projected completion 12/20/13.	NTP 6/24/13 Projected completion 3/05/14.	NTP 9/10/13 Projected completion 08/11/14.
Designer of Record:	TranSystems Corporation			
Contractor	Paul Borg	Kiewit	F.H. Paschen	F.H. Paschen
Project Manager:	Steve Mascheri (GM); Shawn Riley (PM); Jacobs (CM)			
Funding Source:	FTA and RTA Grants			

Detailed Overview of Scope:

Replacement of bus maintenance lifts including drainage, electrical work, and maintenance pads.
 Project has been sequenced to mitigate interference to CTA Bus Operations.



Project Title: Bus Hoist Replacement Program

Impact on Customers:	N/A
Benefit to System:	Improved capacity for maintenance facilities and reliable equipment for bus operations.
Benefit to Community:	N/A
Impact on Accessibility:	N/A
Estimated # of Jobs Created:	80 (phases 1 thru 4)
Customer Communication Need:	N/A

Comparable Projects:
<ul style="list-style-type: none">N/A



Project Title: Bus Hoist Replacement Program

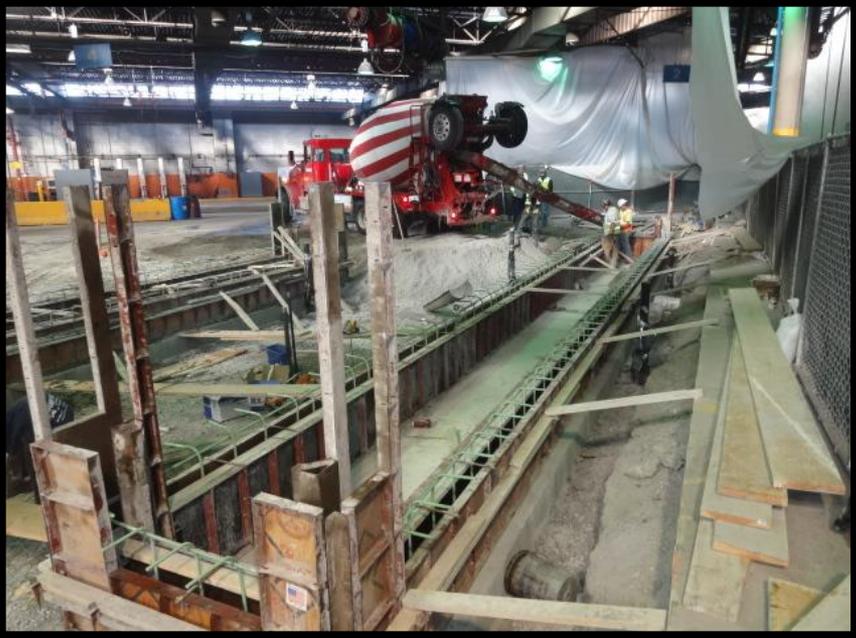
Construction Progress

Phase	Description	Status
Phase 1:	<ul style="list-style-type: none"> ▪ Forest Glen – Close out in progress. ▪ South Shops – Close out in progress. ▪ 77th Garage –Close out in progress. 	Closeout
Phase 2:	<ul style="list-style-type: none"> ▪ Kedzie Garage – 12 lifts total: 12 lifts installed. Punch list and substantial completion have been issued. ▪ North Park Garage – 13 lifts total: 9 lifts installed. Final lift installation will begin the week of 02/17/14. ▪ 103rd and Chicago Garages – NTP issued 9/10/13. Chicago Garage – Phase 1 lift install complete by 02/14/14. 103rd Garage – Phase 1 scheduled to be complete by March 24, 2014. Substantially complete with wash bays and inspection bays by August 2014. 	<p>Punch List</p> <p>Construction</p> <p>Construction</p>

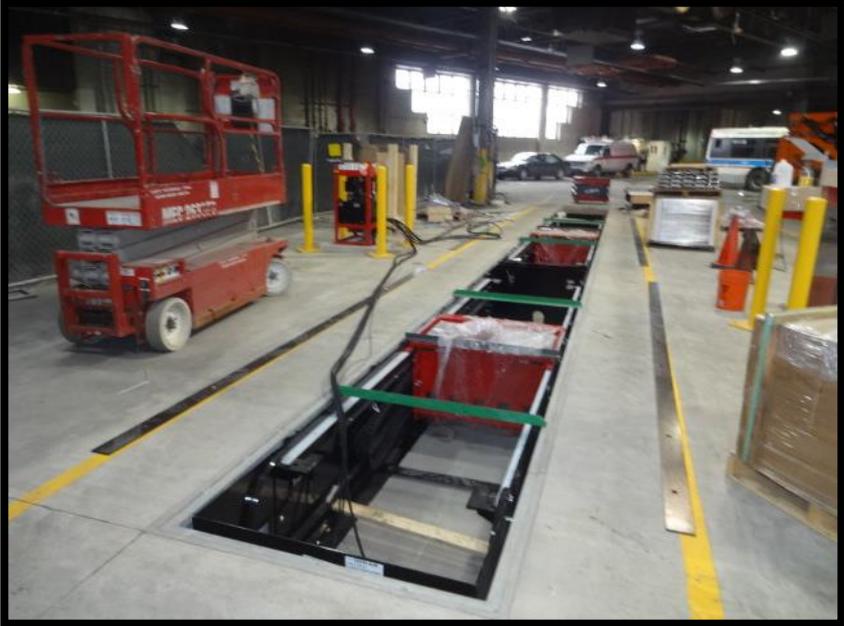
<p>Delay Explanation:</p> <p>Phase 1: Due to the elevation of the existing drainage lines they could not be reused and new lines needed to be installed.</p> <p>Phase 2: Equipment installation dates were extended to better accommodate installation of hoists and minimize impact to bus operations. Three week delay at 103rd Garage due to failed drainage (sump pump) equipment.</p>
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Project Title: Bus Hoist Replacement Program



103rd- form/pour pit walls



Chicago- Bays 1-3 Hoist Install



Project Title: Milwaukee Blue Line Track Renewal

Justification of Need:	The existing ties and track components have reached or exceeded their useful life, resulting in slow zones between Damen Station and Kimball Subway.
Priority of Project:	High
Total Project Budget:	\$30,264,684
Construction Contract Value:	\$20,395,680 (Design/Build)
Earned to Date:	15% (design)
Percent Change Orders to Construction Contract:	0%
Percent Time Used to Date:	20%
Funding Source:	FTA/IDOT
Estimated Start Date/Estimated Length of Project:	NTP Issued August 30, 2013; Substantial Completion January 31, 2015 (NTP + 519 Days)
Designer of Record:	HW Lochner (for Kiewit Infrastructure Co.)
Construction Manager/General Contractor:	Parsons Brinckerhoff (CM), Kiewit Infrastructure Co. (DBC)
Project Manager:	John Titzer (GM); William Polacek (PM)

<p>Detailed Overview of Scope:</p> <ul style="list-style-type: none"> • Improvements to 19,100 track feet along the elevated portion of the Logan Square Connector on the O'Hare Blue Line. • Scope includes replacement of ties, plates, timber guard, other track material and footwalk from North of Damen Station to the Kimball Subway Portal. • Damen/North Ave reverse curves will be reconstructed to increase speed through the curve.



Project Title: Milwaukee Blue Line Track Renewal

Impact on Customers:	Ten line cuts and two single tracks. Street and lane closures around worksites, curtailed access to resident garages under the right of way. Bus shuttles required on line cut weekends.
Benefit to System:	Reduced maintenance costs; Improved reliability; New infrastructure
Benefit to Community:	Improved customer travel times by eliminating slow zones
Impact on Accessibility:	None.
Estimated # of Jobs Created:	82
Customer Communication Need:	Construction activity notices will be needed to alert businesses and residents to weekend, night work and power outages.

Comparable Projects:
<ul style="list-style-type: none"> • Englewood Green Line Track work • Ravenswood-Loop Connector Project



Project Title: Milwaukee Blue Line Track Renewal

Construction Progress

Phase	Description	Status
Design Design Design	<ul style="list-style-type: none"> ▪ Milestone 1 – RFP Validation ▪ Milestone 2 – 90% Design ▪ Milestone 3 – 100% Design 	Complete Complete Complete
Construction Construction	<ul style="list-style-type: none"> ▪ Mobilization ▪ Contractor preparing for first line cut weekend, which is currently scheduled for the weekend of March 21st. 	Ongoing Ongoing

Delay Explanation:
<ul style="list-style-type: none"> • N/A

