

Construction Project Briefing

December 14, 2016



Today's Presentation

- **95th Street Terminal Improvement Program**
- **Wilson Transfer Station, Track, and Structure Reconstruction**
- **O'Hare Line – Addison, Irving Park, Montrose, Harlem and Cumberland Station Renovations (Your New Blue)**
- **Ravenswood Loop Signals Upgrade Project**



Project Title: 95th Terminal Improvement Program

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| 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: \$180,000,000 |
| Earned to Date: | Advance Package 1: 100% Advance Package 2: 96% Main Terminal Contract: 7% |
| Percent Change Orders to Construction Contract: | Advance Package 1: (0.3%) Advance Package 2: 7% Main Terminal Contract: 0% |
| Percent Time Used: | Advance Package 1: 100% Advance Package 2: 100% Main Terminal Contract: 35% |
| DBE: | Advance Package 1: Goal: 30% / Commitment: 35.19% / Current Attainment*: 37.26% Advance Package 2: Goal: 30% / Commitment: 30% / Current Attainment*: 32.03% Main Terminal Contract: Goal: 27% / Commitment: 27% 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

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| 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 / 661 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), Kevin Loughnane (GM) |

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

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| 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. |

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



Project Title: 95th Terminal Improvement Program

Construction Progress

| Phase | Description | Status |
|---|--|---------|
| Close-out Advance Package 2: Dan Ryan Retaining Walls | <ul style="list-style-type: none"> ▪ CTA issued Substantial Completion for Milestone 2 on May 15, 2016 ▪ Field work punchlist work is complete ▪ Administrative close-out is ongoing | Ongoing |
| Design/ Pre-Construction Main Terminal Contract | <ul style="list-style-type: none"> ▪ Design progression on Design Package 4: South Terminal and Design Package 5: North Terminal is ongoing ▪ Contractor is evaluating various Trade Work Package (TWP) bids, such as Bus Canopy Steel/Polycarbonate ▪ Bid solicitation is in process for Electrical Switchgear Procurement, Storefront & Curtainwall, and Site Utilities & Directional Drilling ▪ The following Concurrence of Awards (COA) were executed: <ul style="list-style-type: none"> ▪ COA-7: South Terminal Building Steel Erection, Concrete & Rebar | Ongoing |
| Construction Main Terminal Contract | <ul style="list-style-type: none"> ▪ Earth Retention Systems installed for west track mass excavation ▪ Demolition of 95th Bridge Pier began ▪ Excavation and prep for South Terminal west wall construction | Ongoing |

Delay Explanation:

N/A



Project Title: 95th Terminal Improvement Program



95th bridge pier demolition



Project Title: 95th Terminal Improvement Program



Earth retention system installation



Project Title: Wilson Transfer Station, Track & Structure Reconstruction

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|---|---|
| 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: | 55% (through September) |
| Percent Change Orders to Construction Contract: | (0.7 %) |
| Percent Time Used: | 69% |
| DBE: | Goal: 25% / Commitment: 27.52% Outreach events conducted: 1 |
| 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

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| 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. |

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| 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"> • Old platforms demolition are completed • Caisson drilling operations for new track 3 structure foundations are completed (17). • Concrete pedestal foundations construction for new track 3 continues. • New steel track structure installation continues. • Wilson main station build out continues (Electrical, Communication). • Gerber building restoration/demolition continues. • Gerber building roof structure removal continues. • Installation of new micropile foundations inside Gerber Building continues. • Sunnyside west ramp structural steel installation continues. • Track structure painting continues. • Wilson main station escalator and elevator equipment installation continues. | <p>Completed</p> <p>Ongoing</p> |
| Delay Explanation: | | |
| <p>N/A</p> | | |



Project Title: Wilson Transfer Station, Track & Structure Reconstruction



Demolition of Gerber building roof



Project Title: Wilson Transfer Station, Track & Structure Reconstruction



Gerber facade restoration



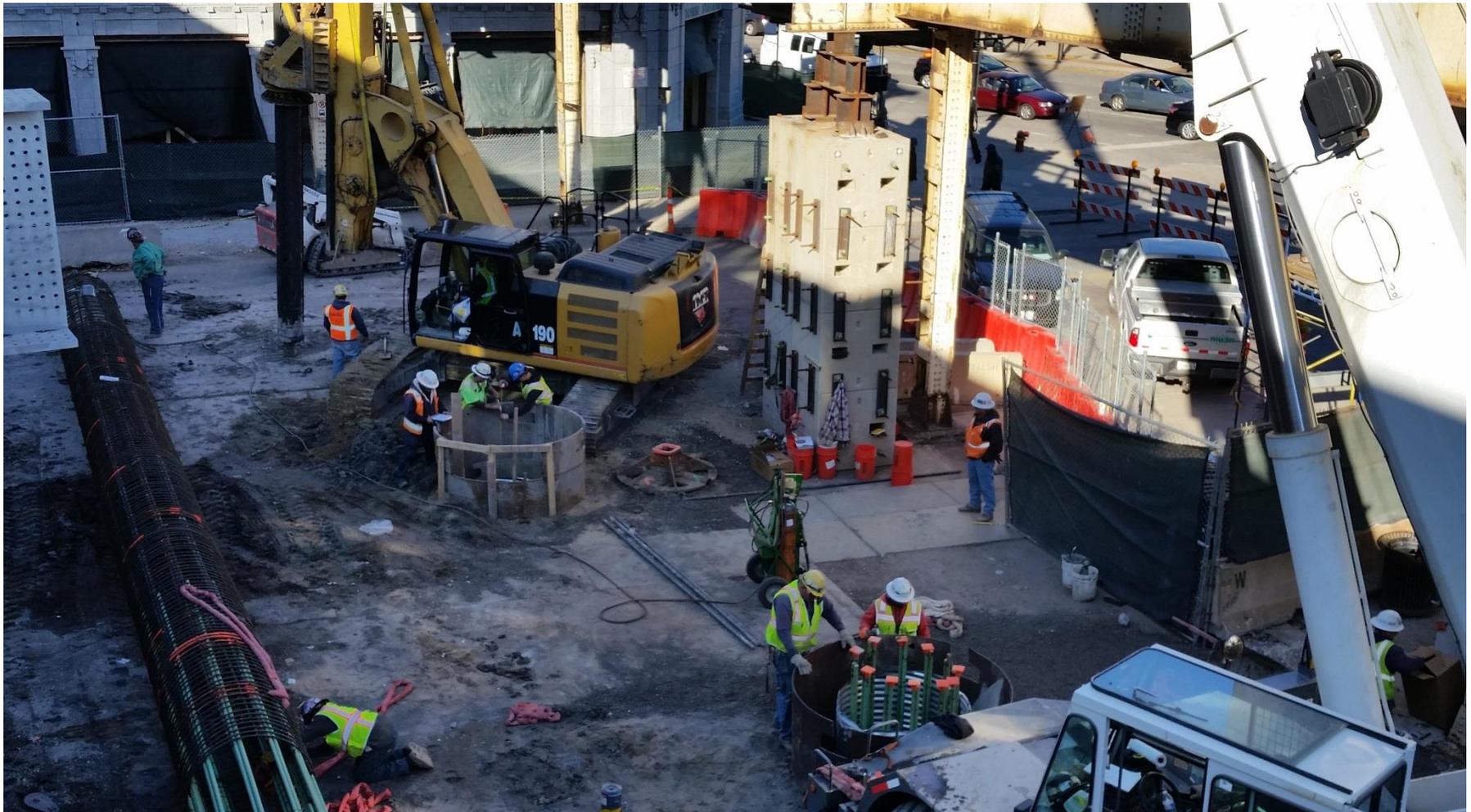
Project Title: Wilson Transfer Station, Track & Structure Reconstruction



Track 3 steel installation



Project Title: Wilson Transfer Station, Track & Structure Reconstruction



New track 3 caisson installation



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

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| 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: | \$43,000,000 |
| Construction Contract Value: | \$27,618,024 |
| Earned to Date: | 88% (through end of October) |
| % Change Orders to Construction Contract: | 8% equal to \$2,053,379.00 |
| Percent Time Used to Date: | 96% (through end of October) |
| DBE: | Goal: 26% / Commitment: 32.27% (Via Change Order# 001) Outreach events conducted: 1 (CTA) 3 (F.H Paschen) |
| 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 (580 days after NTP) – November, 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 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)

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| 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). • 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. |

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| 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)

Construction Progress

| Phase | Description | Status |
|-------------|--|---|
| Addison | <ul style="list-style-type: none"> • Elevator passed preliminary inspection • Stationhouse roof installation • Installation of elevator metal panels • Station house ceiling • Customer assistant Kiosk assembly • Restroom and janitors closet assembly | <p>Complete</p> <p>Complete</p> <p>Complete</p> <p>Complete</p> <p>Complete</p> <p>Complete</p> |
| Montrose | <ul style="list-style-type: none"> • Canopy and station painting • New conduit at light fixtures • Installation of Fascia | <p>Complete</p> <p>Complete</p> <p>Complete</p> |
| Irving Park | <ul style="list-style-type: none"> • Rehabilitation of South bound platform concrete • Rehabilitation of North bound platform concrete • Rehabilitation of South auxiliary stair railing • Rehabilitation of North auxiliary stair railing | <p>Complete</p> <p>Complete</p> <p>Complete</p> <p>Complete</p> |

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| Delay Explanation: |
| N/A |



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

Construction Progress

| Phase | Description | Status |
|------------|--|--|
| Harlem | <ul style="list-style-type: none">• Installation of refurbished lighting at bus canopy and station house• Granite tile and grout replacement• Installation of tactile tile• Bus Canopy painting | Complete Complete Complete Complete |
| Cumberland | <ul style="list-style-type: none">• Power wash and painting pedestrian bridges• Demolition of topping slab• Installation of curtain wall platform level• Platform replacement | Complete Complete Complete Complete |

Delay Explanation:

N/A

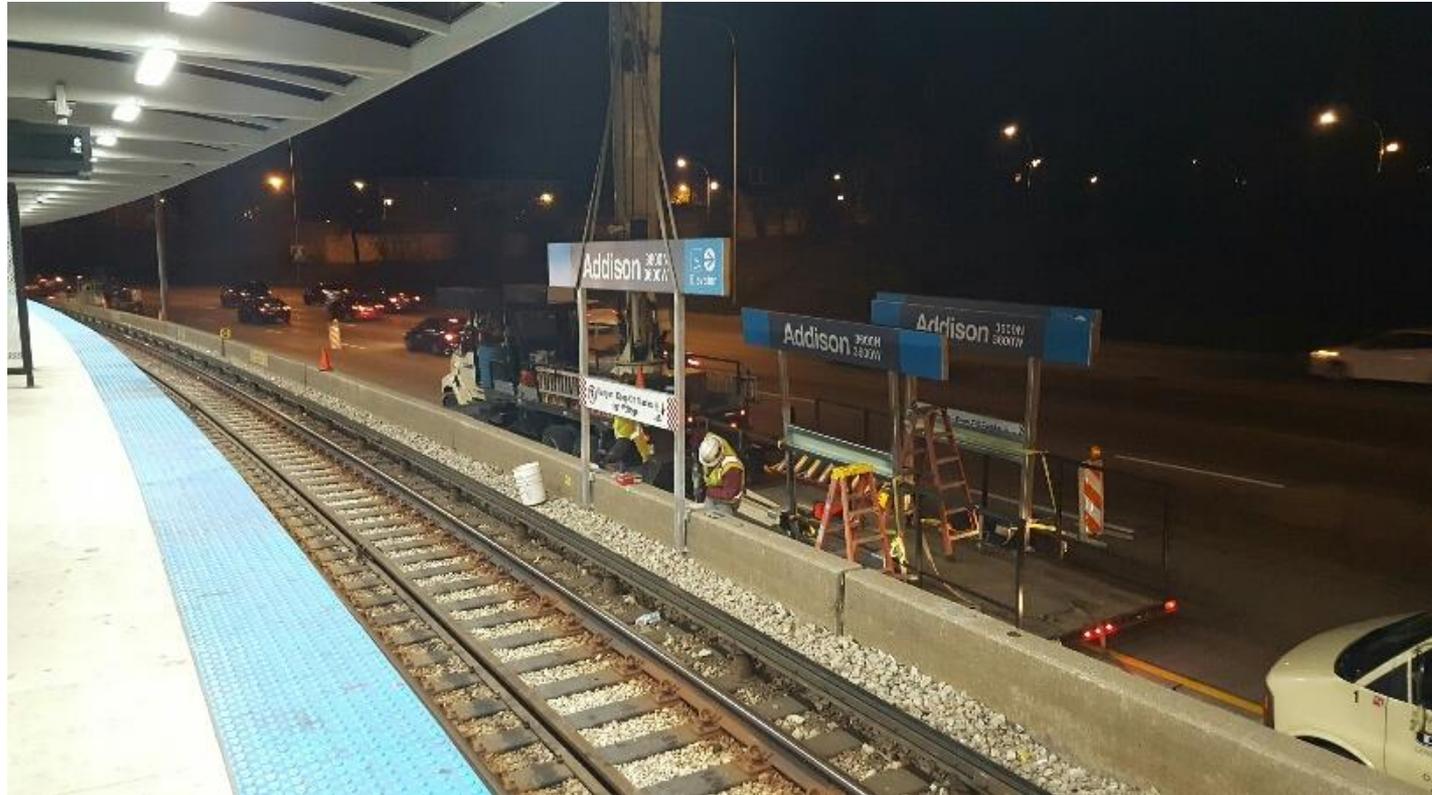


Project Title: O'Hare Line – Addison, Irving Park, Montrose, Harlem and Cumberland Station Renovations (Your New Blue)



New curtain wall installed at Addison platform

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



New Signage at Addison Platform

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



Addison Station new elevator

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



Cumberland new curtain wall

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



Cumberland refurbished platform furniture and platform

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



Cumberland Station house new lighting

Project Title: Ravenswood Loop Signal Upgrade Project

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| 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: | 19.7% (Through October 2016) |
| Percent Change Orders to Construction Contract: | 0 |
| Percent Time Used: | 45.6% (Through October 2016) |
| DBE: | Goal: 10% / Commitment: 10% Outreach events conducted: 1 (CTA) |
| Funding Source: | CTA PBV, CTA Bonds, FTA |
| Start Date/Length of Project: | November 4, 2015 – January 3, 2018 |
| Designer of Record: | Parsons Transportation |
| Construction Manager/General Contractor: | Parsons Brinckerhoff/Ragnar Benson Construction, LLC |
| Project Manager: | William Polacek (PM), Steve Mascheri (GM) |

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

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| 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: | 89 |
| 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. |

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| Comparable Projects: |
| <ul style="list-style-type: none"> • 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"> • Notice to Proceed for Design Phase issued November 4, 2015 • Project Design Phase • Notice to Proceed for Construction Phase issued August 4, 2016 • Installation of cable brackets and cable. • Installation of foundations and structural steel to support new signal houses • Installation of new signal houses • Installation of new signal equipment • Integration and troubleshooting of new system • System Cutover | <p>Completed</p> <p>Completed</p> <p>Completed</p> <p>Ongoing</p> <p>Planned</p> <p>Planned</p> <p>Planned</p> <p>Planned</p> <p>Planned</p> |
| <p>N/A</p> | | |



Project Title: Ravenswood Loop Signal Upgrade Project



Installation of cable brackets

