

# **Construction Project Briefing**

**April 15, 2011**



# Today's Presentation

- **Cermak Station Project**
- **Howard Signals Project**
- **Loop Signals Project**



# Project Title: Cermak Station Project

## Managing Department: Facilities Construction

|   |  |
|---|--|
| Justification of Need:                            | Reconstruct station entrance after vehicle accident and fatality; make station fully accessible.   |
| Priority of Project:                              | High   |
| Project Budget                                    | \$14.85M (\$13M – Stimulus, \$600k – TIF, \$1.25M FTA)   |
| Earned to Date:                                   | \$11.5M  |
| Percent Change Orders to Construction Contract:   | 0%   |
| Percent Time Used to Date:                        | 83%  |
| Funding Source:                                   | ARRA (Federal Stimulus Funds)  |
| Procurement Status:                               | <ul style="list-style-type: none"> <li>• Archer auxiliary entrance open for customer use.</li> <li>• Cermak under construction; long lead items in fabrication.</li> </ul> |
| Estimated Start Date/Estimated Length of Project: | Started in November 2009, with a 18 month construction duration.   |
| Project Manager:                                  | Steven Mascheri (GM); Chris Mulcrone (PM)  |

**Detailed Overview of Scope:**

- Station will become ADA compliant upon project completion.
- New station house with new revenue equipment, elevator, escalator, and bike racks at Cermak entrance.
- Renovated entrance at south end of Cermak Road.



# Project Title: Cermak Station Project

## Managing Department: Facilities Construction

|                              |   |
|------------------------------|---|
| Impact on Customers:         | Cermak entrance is closed during construction. CTA built new entrance at Archer Ave. to keep station open.  |
| Benefit to System:           | <ul style="list-style-type: none"> <li>• Station will become ADA-compliant.</li> <li>• Third means of egress from platform for station access &amp; exiting.</li> </ul> |
| Benefit to Community:        | <ul style="list-style-type: none"> <li>• Station will become ADA-compliant.</li> <li>• New Archer Avenue auxiliary entrance.</li> </ul>                                 |
| Impact on Accessibility:     | Station will become ADA-compliant.  |
| Estimated # of Jobs Created: | 50 on-site jobs (Contractor, CM, PM).   |
| Customer Communication Need: | Cermak entrance is closed during construction and is rerouting customers to Archer auxiliary entrance .   |

### Comparable Projects:

- Brown Line Capacity Expansion Project.



# Project Title: Cermak Station Project

## Managing Department: Facilities Construction

### Construction Progress

| Phase               | Description  | Status                                    |
|---------------------|--|---|
| Design              | <ul style="list-style-type: none"> <li>Complete. Engineering providing design support.</li> </ul>  | Complete.                                 |
| Archer Construction | <ul style="list-style-type: none"> <li>Station opened for customer use June 4, 2010.</li> </ul>  | Closeout.                                 |
| Cermak Construction | <ul style="list-style-type: none"> <li>Installing escalator, elevator skin, curtainwall glass, interior masonry and platform canopy steel.</li> <li>Installing electrical &amp; communication conduits feed inside station.</li> </ul> | Scheduled completion Second Quarter 2011. |
| South Cermak        | <ul style="list-style-type: none"> <li>Materials in fabrication.</li> </ul>  | Scheduled completion Second Quarter 2011. |

**Schedule update:**

- The construction at the Cermak main or North Chinatown entrance continues. Station underground utilities have been completed. Contractor has completed installation of structural steel for platform and station house.
- The South Cermak entrance is preliminary scheduled for completion by the second quarter of 2011. New entrance will have passengers enter off of street instead of behind from alley as currently built.



# Project Title: Cermak Station Project

## Managing Department: Facilities Construction

### Construction Progress



**Platform Canopy Steel erected.**



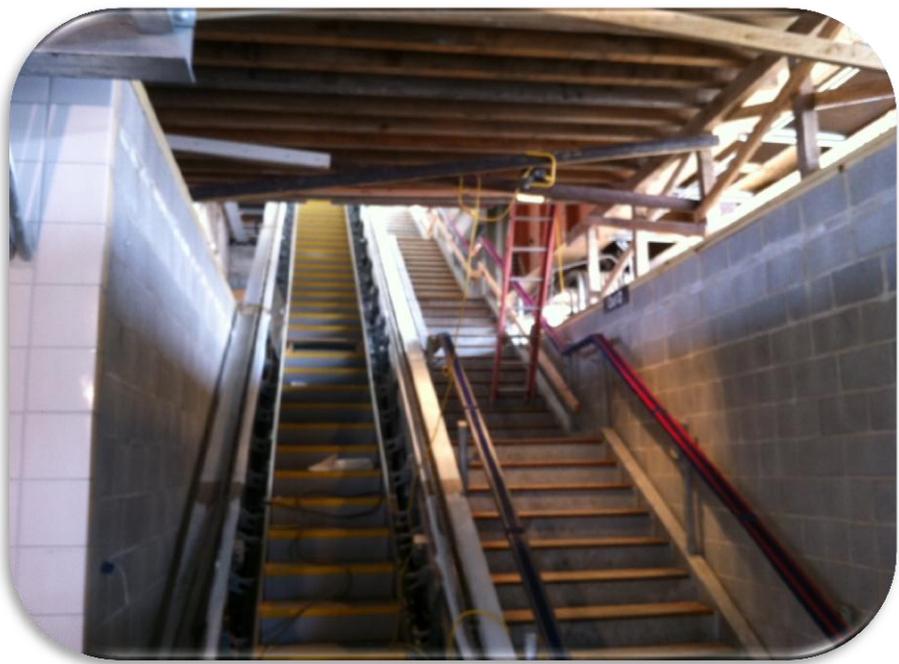
**Elevator exterior tower & panels installed.**



# Project Title: Cermak Station Project

## Managing Department: Facilities Construction

### Construction Progress



**New interior wall masonry/tile & escalator/stairs being installed.**



**Station House curtain wall, glass, & exterior station electrical fixtures being installed.**



# Project Title: Howard Signals Project

## Managing Department: Power & Way Construction

|   |  |
|---|--|
| Justification of Need:                            | Restore Reliability and Improve Performance of the Train Control System. |
| Priority of Project:                              | High   |
| Total Project Budget:                             | \$7M   |
| Construction Contract Value:                      | \$5.5M (Signal); \$355K (JOC); \$555K* (Additional JOC work funded)      |
| Earned to Date:                                   | \$3.1M (Signal); \$320K (JOC)  |
| Percent Change Orders to Construction Contract:   | 0%   |
| Percent Time Used to Date:                        | 83% (Signal); 100% (JOC); 95% (Additional JOC)                           |
| Funding Source:                                   | CTA Bonds  |
| Estimated Start Date/Estimated Length of Project: | NTP issued August 6, 2009; Completion by the Third Quarter of 2011.      |
| Project Manager:                                  | Barney Gray (GM); Grace Ohs (PM)   |

- Detailed Overview of Scope:**
- Upgrade existing Vital Processor Interlocking (VPI) systems at interlockings near the Howard Street Station. Upgrades to Communication hardware and software. Also includes replacement of faceplates for Howard Control Panel, new CTC Workstation, and new Maintainer’s overview displays.
  - Project also includes supplemental JOC work at Howard Tower. Roof replacement, HVAC replacement, and new fire suppression system is included.
  - Additional \$555K in JOC work includes Jarvis wall and abutment repair.

\*Additional \$555K JOC work will be paid out of separate funds allocated by Capital Finance department.



# Project Title: Howard Signals Project

## Managing Department: Power & Way Construction

|                              |   |
|------------------------------|---|
| Impact on Customers:         | During non-rush periods, reduced train speeds when workers are on the Right-of-Way.   |
| Benefit to System:           | Improve signal system at Howard Interlocking to prevent delays to service.  |
| Benefit to Community:        | More consistent travel times due to increased reliability.  |
| Impact on Accessibility:     | N/A   |
| Estimated # of Jobs Created: | N/A   |
| Customer Communication Need: | <ul style="list-style-type: none"> <li>• Courtesy notification to the Alderman and Community about the project.</li> <li>• Train announcements about reduced speeds due to workers on ROW.</li> </ul> |

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|---|
| <b>Comparable Projects:</b>   |
| <ul style="list-style-type: none"> <li>• Blue Line Signals Project</li> <li>• Loop Signals Project</li> </ul> |



# Project Title: Howard Signals Project

## Managing Department: Power & Way Construction

### Construction Progress

| Phase                       | Description   | Status    |
|-----------------------------|---|-----------|
| Construction                | <ul style="list-style-type: none"> <li>Printed circuit boards (PCBs) received and installed at Jarvis East, Jarvis West and Howard South. Software upgrades for Jarvis East and West to be completed in the First Quarter of 2011. Field testing of the 6 panels to be completed in the first quarter of 2011 with the final installation and cutover in the second quarter of 2011.</li> </ul> | Ongoing   |
| JOC Construction            | <ul style="list-style-type: none"> <li>Wight-Hill started work 6/10/09, HVAC and roof work is substantially complete.</li> </ul>  | Close-Out |
| Additional JOC Construction | <ul style="list-style-type: none"> <li>Paul Borg Construction completed Jarvis Wall Replacement and Abutment Repair. Punchlist work started and expected to be completed in First Quarter of 2011.</li> </ul>   | Ongoing   |

| Delay Explanation:   |
|--|
| <ul style="list-style-type: none"> <li>Installation of the Control Panel Faceplates has been rescheduled from October 2010 to the second quarter of 2011.</li> <li>All the DBO boards were returned to Alstom due to a defective component. CTA issued a directive requiring replacement of PCB boards in the Fourth Quarter of 2010. Delivery of replacement boards is forecast for October 2011.</li> <li>Contractor has not met project milestone dates and CTA has requested a recovery schedule.</li> </ul> |



# Project Title: Loop Signals Project

## Managing Department: Power & Way Construction

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|--|--|
| Justification of Need:                           | Upgrade Towers and Interlocking Control Systems to current technology; Tower 18 past useful life.                |
| Total Project Budget:                            | \$103.2M   |
| Construction Contract Value:                     | \$67.9M  |
| Earned to Date:                                  | \$56.4M or 83.0%   |
| Percent Change Orders to Construction Contract:  | 40.7%  |
| Percent Time Used to Date:                       | 100%   |
| Funding Source:                                  | FTA, RTA and Bond Funds  |
| Estimated Start Date/Estimated Length of Project | NTP 2/21/07; Original Completion Date 9/2009; Revised Substantial Completion Date is the Second Quarter of 2011. |
| Project Manager:                                 | Barney Gray (GM); Brittany Dyra (PM)   |

- Detailed Overview of Scope:**
- New Bi-directional Cab Signal System for the Loop.
  - Construction of new Control Tower at Lake/Wells.
  - New control panel with remote controls for Tower 12 and Jefferson.
  - Installation of a new Signal Facility Building at Randolph/Wells.
  - Installation of a new Tower 12 Relay House.
  - Installation of new interlocking at Jefferson.



# Project Title: Loop Signals Project

## Managing Department: Power & Way Construction

| Phase       | Description                      | Original Completion Date | Revised Completion Date | Actual Completion Date |
|-------------|----------------------------------|--------------------------|-------------------------|------------------------|
| Milestone 1 | Approved Signal Block Design     | 8/20/07                  | 4/2008                  | 3/18/08                |
| Milestone 2 | Approved Cable Plan              | 9/4/07                   | 5/2008                  | 5/21/08                |
| Milestone 3 | Approved Tower 18 Circuit Design | 9/19/07                  | 6/2008                  | 12/2/08                |
| Milestone 4 | Audio Circuit Cutover            | 9/2008                   | N/A                     | 9/14/08                |
| Milestone 5 | Tower 18 Relay Room              | 3/20/09                  | 2/2011                  | TBD*                   |
| Milestone 6 | Tower 18                         | None Provided            | 5/25/10                 | 5/28/10                |
| Milestone 7 | Tower 18 Interlocking            | 8/2009                   | 3/2011                  |                        |
| Milestone 8 | Tower 12 Interlocking            | 8/2009                   | 3/2011                  |                        |
| Milestone 9 | Substantial Completion           | 9/2009                   | Second quarter of 2011  |                        |

### Delay Explanation:

- Original project schedule to be complete 9/2009; current project schedule shows completion for the second quarter of 2011. See dates above for details.

*\*Tower 18 Relay Room cutover was completed 11/16/09; testing still remains related to this milestone.*

