

# Construction Project Briefing

**February 9, 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:	\$8.8M
Percent Change Orders to Construction Contract:	0%
Percent Time Used to Date:	75%
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 .

<b>Comparable Projects:</b>
<ul style="list-style-type: none"> <li>• Brown Line Capacity Expansion Project.</li> </ul>



# 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 site utilities and indoor underground plumbing.</li> <li>Placing of station house concrete foundation and floor slab. Installing and detailing of support steel.</li> <li>Installing of new platform level light fixtures.</li> </ul>	Scheduled completion Second Quarter 2011.
South Cermak	<ul style="list-style-type: none"> <li>Materials in fabrication</li> <li>Beginning demolition and excavation of existing entrance.</li> </ul>	Tentative completion Second Quarter 2011.

**Schedule update:**

- The construction at Cermak – Chinatown continues. Station underground utilities have been completed. Contractor is starting installation of structural steel for platform and station house.
- South Cermak is being priced and scheduled by contractor, which is scheduled to be completed by end of first quarter. 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



**Underground sanitary plumbing work is complete. Inspected and approved by City of Chicago.**



**Station House interior concrete floor slab placement at south end of station.**



# Project Title: Cermak Station Project

## Managing Department: Facilities Construction

### Construction Progress



**New platform support steel at location of elevator opening.**



**Detailing of new escalator and stair support steel below platform.**



# Project Title: Cermak Station Project

## Managing Department: Facilities Construction

### Construction Progress



**Platform level of new lighting and painting.**



**Street view of new lights 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:	75% (Signal); 100% (JOC); 75% (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 and backup generators.

\*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>

<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. Installation of CSEX3 (for communication upgrade) boards completed in April 2010. Software upgrades for Jarvis East and West to be completed in the First Quarter of 2011. New Control Panel in Howard Tower to be installed in the First 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 started the Abutment Repair. Abutment Repair to be completed in the First Quarter of 2011.</li> </ul>	Ongoing

**Delay Explanation:**

- Installation of the Control Panel Faceplates has been rescheduled from October 2010 to early 2011.
- 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. Lead time for replacement boards is 6 months.



# Project Title: Loop Signals Project

## Managing Department: Power & Way Construction

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 First 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	3/2011	

### Delay Explanation:

- Original project schedule to be complete 9/2009; current project schedule shows completion for the First 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.

