

# Metro Gold Line Eastside Extension



# **METRO GOLD LINE EASTSIDE EXTENSION**

## **QUARTERLY PROJECT STATUS REPORT**

THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE U. S. DEPARTMENT OF TRANSPORTATION, FEDERAL TRANSIT ADMINISTRATION (FTA), UNDER THE FEDERAL TRANSIT ACT OF 1964, AS AMENDED, AND FUNDS FROM THE STATE OF CALIFORNIA.

**MARCH 2010**

## **TABLE OF CONTENTS**

	Page No.
Project Overview & Status.....	1-2
Management Issues.....	2
Project Status	
• Project Cost Status.....	3-4
• Financial/Grant Status.....	5
• Environmental.....	6
• Community Relations.....	6
• Quality Assurance.....	6
• Safety.....	7
Contract C0803 Status .....	8
Contract C0893 Status .....	9
Contract P2550 Status .....	10
Construction Photographs .....	11-12
Appendices.....	13-16

## **PROJECT OVERVIEW & STATUS**

*The Metro Gold Line Eastside Extension Project is a six-mile, dual track light rail system with eight new stations and one station modification. The system originates at Union Station in downtown Los Angeles, where it connects with the Pasadena Gold Line, traveling generally east to Pomona and Atlantic Boulevards. The system travels over the State Route 101 Freeway and traverses the existing 1<sup>st</sup> Street Bridge over the Los Angeles River. The system travels south on Alameda Street and then east on 1<sup>st</sup> Street with two stations at Alameda and Utah Streets. East of the Los Angeles River and 1<sup>st</sup> and Utah Streets, the alignment transitions to tunnel for approximately 1.7 miles, and continues beneath 1<sup>st</sup> Street to underground stations at 1<sup>st</sup> Street and Boyle Avenue and 1<sup>st</sup> Street and Soto Street. The alignment returns to the surface near the intersection of 1<sup>st</sup> Street and Lorena Streets, then jogs to the south, transitioning to follow 3<sup>rd</sup> Street with stations at Indiana Street, Ford Boulevard, Mednik Avenue and Pomona and Atlantic Boulevards.*

Metro's consultant, ARINC, is close to completing the integration software updates into the new SCADA system, as required, to correct testing issues. ARINC has completed developing user and training manuals, and has continued supporting Metro staff with the remaining Phase II Systems Integration Testing. Phase II testing is scheduled to be completed next month and the expanded SCADA system is expected to be fully operational by the end of the second quarter 2010.

Contract C0933, Division 21 Body Repair Shop, was awarded in early January 2010 and the Notice to Proceed (NTP) was given to the contractor, Ford E. C., Inc. on February 1<sup>st</sup>, 2010. The contractor has mobilized to the construction site, installed the field office and erected the perimeter fencing. The baseline schedule was submitted and is currently under review. Removal of existing ballast material and surveying were completed this period. Also, installation of the duct bank was completed per schedule. The lift system vendor began the design of the system and preparation of shop drawings.

The C0803 contractor completed the design of the last phase of the four foot high steel picket pedestrian barrier fencing, which is being installed between the tracks to deter jaywalking. Installation on the Los Angeles County side was completed this period. Installation on the Los Angeles City side is near completion, with the last portion schedule to be completed by early April 2010.

The C0803 contractor continues working on completing open items throughout the alignment, including the underground stations.

ELRTC and Metro staff have continued the process to establish parameters and measurement criteria to conduct the system assurance reliability testing, as required by the contract.

The C0893 Atlantic/Pomona Parking Structure is nearly complete. The contractor poured the suspended slab at levels 3 and 4, the vehicular ramp, the retaining walls, and curbs and gutters in lots A & B as well as on Atlantic Boulevard. Construction crews erected all stairs and security screens as well as barrier cables at all levels. Signage and striping were completed inside the structure. All work in the mechanical and electrical rooms was completed. The elevator was installed and tested as well as the fire sprinkler system.

## **PROJECT OVERVIEW & STATUS**

The contractor completed backfilling, placing AC, installing the lighting system and striping the parking stalls in surface parking lots A & B. Sidewalks along Atlantic Boulevard and alley work improvements are on going as well as fencing, painting and landscaping. The parking structure is scheduled to open in mid-April 2010.

## **MANAGEMENT ISSUES**

No Management Issues for the period ending March 2010.

## PROJECT COST STATUS

### COST REPORT BY ELEMENT ORIGINAL SCOPE ACTIVITIES DOLLARS IN THOUSANDS

ELE- MENT	DESCRIPTION	ORIGINAL BUDGET	CURRENT BUDGET		COMMITMENTS		EXPENDITURES		CURRENT FORECAST		BUDGET / FORECAST VARIANCE
			PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	
C	CONSTRUCTION	633,221	-	650,702	286	661,171	2,429	631,939	-	650,702	-
S	SPECIAL CONDITIONS	19,494	-	57,032	95	54,265	2,594	48,748	-	57,032	-
R	RIGHT-OF-WAY	40,358	-	37,681	-	37,779	4	37,052	-	37,681	-
P	PROFESSIONAL SERVICES	135,304	-	135,860	(519)	137,504	2,009	135,195	-	135,860	-
PC	PROJECT CONTINGENCY	60,254	-	7,401	-	-	-	-	-	7,401	-
PR	PROJECT REVENUE	(4,617)	-	(4,662)	-	(4,662)	-	(4,662)	-	(4,662)	-
SUBTOTAL		884,014	-	884,014	(137)	886,057	7,036	848,273	-	884,014	-
PF	PROJECT FINANCE COST	14,800	-	14,800	2,214	11,706	2,214	11,706	-	14,800	-
TOTAL		898,814	-	898,814	2,077	897,764	9,250	859,979	-	898,814	-

NOTE: EXPENDITURES ARE CUMULATIVE THROUGH FEBRUARY 2010

## PROJECT COST ANALYSIS

### Original Budget

The Full Funding Grant Agreement (FFGA) was adopted June 1, 2004 in the amount of \$898.8 million. The Original Budget reflects the adopted FFGA.

### Current Budget and Current Forecast

The Current Budget and Forecast remain the same at \$898.8 million.

### Commitments

The Commitments increased by \$2.1 million this period primarily for executed modifications associated with Contract C0803 – Tunnels, Stations, Trackwork and Systems; Metro Systems Integration Oversight/Pre-Revenue Operations; SCADA; and, Project Finance Cost interest payment. In the Professional Services element there was a decrease of \$0.5 million for less than anticipated Construction Management Services. The \$897.8 million in Commitments to date represents 99.9% of the Original Budget.

### Expenditures

Expenditures are cumulative through February 2010. The Expenditures increased by a total of \$9.3 million this period. In the Construction element there was an increase of \$2.4 million for costs associated with Contract C0803 – Tunnel, Stations, Trackwork and Systems; Universal Fare System; and, the Light Rail Vehicles. In the Special Conditions element there was an increase of \$2.6 million for costs associated with 3<sup>rd</sup> Party Master Cooperative Agreements; final billing from AT&T for utility work along Segment 6; Metro Systems Integration Oversight/Pre-Revenue Operations; and, SCADA. In the Professional Services element there was an increase of \$2.0 million for costs associated with Metro Project Administration; Design Support During Construction; Construction Management Services; and, Vehicles Consultants. In the Project Finance Cost element there was an increase of \$2.2 million that reflects an interest payment. The \$860.0 million in Expenditures to date represents 95.7% of the Original Budget.

## PROJECT COST STATUS

### COST REPORT BY ELEMENT CONCURRENT NON-FFGA PROJECT ACTIVITIES

DOLLARS IN THOUSANDS

ELEM- MENT	DESCRIPTION	ORIGINAL BUDGET	CURRENT BUDGET		COMMITMENTS		EXPENDITURES		CURRENT FORECAST		BUDGET / FORECAST VARIANCE
			PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	
C	CONSTRUCTION	18,000	-	49,649	2,600	48,639	2,830	43,231	-	49,649	-
S	SPECIAL CONDITIONS	-	-	3,244	(13)	2,621	8	2,561	-	3,244	-
R	RIGHT-OF-WAY	-	-	648	-	349	58	284	-	648	-
P	PROFESSIONAL SERVICES	-	-	4,307	794	5,210	835	4,666	-	4,307	-
PC	PROJECT CONTINGENCY	-	-	2,143	-	-	-	-	-	2,143	-
PR	PROJECT REVENUE	-	-	(4,087)	37	(4,872)	-	(669)	-	(4,087)	-
SUBTOTAL		18,000	-	55,903	3,418	51,947	3,731	50,072	-	55,903	-
PF	PROJECT FINANCE COST	-	-	-	-	-	-	-	-	-	-
TOTAL		18,000	-	55,903	3,418	51,947	3,731	50,072	-	55,903	-

NOTE: EXPENDITURES ARE CUMULATIVE THROUGH FEBRUARY 2010

## PROJECT COST ANALYSIS

### Original Budget

The Metro Board adopted the Original Budget of \$18.0 million on March 24, 2005.

### Current Budget and Current Forecast

The Current Budget and Forecast remain the same at \$55.9 million.

### Commitments

The Commitments increased by \$3.4 million primarily for executed modifications associated with Rail Safety Enhancements, Pomona/Atlantic Parking Structure, and Metro Project Administration. The \$51.9 million in Commitments to date represents 92.9% of the Current Budget.

### Expenditures

Expenditures are cumulative through February 2010. The Expenditures increased by \$3.7 million this period primarily for costs associated with the Rail Safety Enhancements, construction of the Pomona/Atlantic Parking Structure, Operational Enhancements, Universal Fare System, Construction Management, and Metro Project Administration. The \$50.1 million in Expenditures to date represents 89.6% of the Current Budget.

**FINANCIAL/GRANT STATUS – ORIGINAL SCOPE ACTIVITIES**

**MARCH 2010**

**STATUS OF FUNDS BY SOURCE**

SOURCE	(A) ORIGINAL BUDGET	(B) TOTAL FUNDS ANTICIPATED	(C) TOTAL FUNDS AVAILABLE	(D) COMMITMENTS \$	(D/B) %	(E) EXPENDITURES \$	(E/B) %	(F) BILLED TO FUNDING SOURCE \$	(F/B) %
FEDERAL - SECTION 5309 NEW START	\$490.700	\$490.700	\$481.117	\$490.700	100%	\$454.954	93% (1)	\$452.022	92%
FED - SECTION 5309 FIXED GUIDEWAY	\$23.100	\$12.000	\$12.000	\$12.000	100%	\$12.000	100%	\$12.000	100%
FEDERAL - CMAQ	\$10.300	\$10.300	\$10.276	\$10.276	100%	\$10.276	100%	\$10.276	100%
REGIONAL IMPROVEMENT PROG - FED	\$179.600	\$4.600	\$4.600	\$4.600	100%	\$4.600	100%	\$4.600	100%
REGIONAL IMP PROG - STATE	\$0.600	\$175.600	\$175.600	\$175.600	100%	\$175.600	100%	\$175.600	100%
STATE TCRP	\$45.000	\$45.000	\$45.000	\$45.000	100%	\$45.000	100%	\$45.000	100%
PROP A 35% / PROP C 40%/PROP 25%	\$124.614	\$135.714	\$135.714	\$137.781	102%	\$135.743	100%	\$135.743	100%
LEASE REVENUES	\$10.100	\$10.100	\$10.100	\$10.100	100%	\$10.100	100%	\$10.100	100%
ACCRUALS									
SUB-TOTAL	\$884.014	\$884.014	\$874.407	\$886.057	100%	\$848.273	96%	\$845.341	96%
PROP A / PROP C (INTEREST COST)	\$14.800	\$14.800	\$11.706	\$11.706	79%	\$11.706	79%	\$9.273	63%
TOTAL	\$898.814	\$898.814	\$886.113	\$897.763	100%	\$859.979	96%	\$854.614	95%

NOTE: EXPENDITURES ARE CUMULATIVE THROUGH FEBRUARY 2010.

(1) BILLED EXPENDITURES IN EXCESS OF FUNDS AVAILABILITY ARE TEMPORARILY FUNDED THROUGH BRIDGE FINANCING.

**FINANCIAL/GRANT STATUS**  
**CONCURRENT NON-FFGA PROJECT ACTIVITIES**

**MARCH 2010**

**STATUS OF FUNDS BY SOURCE**

SOURCE	(A) APPROVED BUDGET	(B) TOTAL FUNDS ANTICIPATED (1)	(C) TOTAL FUNDS AVAILABLE	(D) COMMITMENTS \$	(D/B) %	(E) EXPENDITURES \$	(E/B) %	(F) BILLED TO FUNDING SOURCE \$	(F/B) %
PROP C 40%	\$14.000	\$22.400	\$22.400	\$22.400	100%	\$22.400	100%	\$18.209	81%
PROP C 10%	\$4.000	\$4.300	\$4.300	\$2.044		\$1.702		\$1.702	
STATE TCR	\$0.000	\$24.086	\$24.086	\$24.086	100%	\$24.086	100%	\$24.086	100%
PROP A 35%	\$0.000	\$5.117	\$5.117	\$3.417	67%	\$1.884	37%	\$0.000	0%
TOTAL	\$18.000	\$55.903	\$55.903	\$51.947	93%	\$50.072	90%	\$43.997	79%

NOTE: EXPENDITURES ARE CUMULATIVE THROUGH FEBRUARY 2010.



## **ENVIRONMENTAL STATUS**

- A Memorial Wall Dedication Ceremony was held at the Evergreen Cemetery reinterment site on March 8, 2010.
- Planning meetings were held with Evergreen Cemetery, Bagues Mortuary, Kemp Monument and Cogstone concerning the re-interment.

## **COMMUNITY RELATIONS STATUS**

- Coordinated monthly RAC Meeting at Ramona Opportunity High School.
- Attended monthly contractor meeting on the Atlantic Station parking structure.
- Attended meeting with La Gloria Foods business owner regarding water drainage.
- Distributed 20 construction notices to the Pomona Shopping Center business owner concerning paving the alleyway and widening the driveway apron.

## **QUALITY ASSURANCE STATUS**

- Monitored Pomona/Atlantic parking structure activities.

## **SAFETY STATUS**

- Participated in weekly progress meetings with ELRTC's Safety personnel to discuss safety related issues.
- Monitored construction activities day/night shifts to ensure safety compliance with contract specifications.
- Participated in weekly Track Allocation Meeting.
- Participated in ELRTC's weekly Tool-box Safety Meetings.
- ELRTC and their subcontractors reported zero incidents and a total of 29,623 work hours for the months of January, February and March 2010.
- The Project-to-Date work hours are 4,407,527. A total of 43 incidents have occurred project-to-date and the Recordable Injury Rate is 1.95.

## CONTRACT C0803 STATUS

<b>Description: Tunnel, Stations, Trackwork &amp; Systems</b> <b>Contractor: Eastside LRT Constructors</b>	<b>Contract No. C0803</b> <b>Status as of: April 2, 2010</b>					
<b>Progress/Work Completed:</b>  * Submitted Traction Power "as-builts" * Removed contractor's original mobile offices from the site * Relocated contractor's closeout personnel to a smaller (Metro provided) mobile office on site * Removed MTA's engineering mobile offices from the site  <b>Areas of Concern:</b>  <b>None</b>	<b>Major Activities (In Progress):</b>  * Resolution of open items throughout the alignment * Rail Safety Enhancements work * Communications "As-built" submittals * Continue SCADA system support * Systems reliability demonstration test  <b>Major Activities Next Period:</b>  * Complete open items work * Complete "as-built" submittals * Deliver spare parts and tools to Metro warehouse * Contract closeout * Continue systems reliability demonstration test * Demobilization					
<b>Schedule Summary:</b>  Date of Award: 06/01/04  Notice to Proceed: 07/01/04  Original Contract Duration: 1795 CD Current Contract Duration: 1887 CD Elapsed Time from NTP: 2102 CD  Option D Contract duration 90 CD Complete		Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs
	Notice to Proceed	07/01/04	0	07/01/04	07/01/04	0
	Milestone 1 - Contract Completion. Complete all systems integration testing and ready for MTA's pre-revenue operation testing.	12/31/08	91	04/01/09	11/15/09	-228
	Milestone 3 - Complete Universal Fare System Equipment area.	04/30/08	255	01/10/09	01/30/09	-20
	Milestone 5 - Vacate all staging areas and turn over to MTA.	05/30/09	92	08/30/09	06/30/10	-304
	Milestone 6 - Complete design and construction of Option D work.	09/28/04	0	09/28/04	09/28/04	0
<b>Physical Percent Complete:</b>  Physical completion * as of this reporting period is: 100%  * Note: Physical completion assessment reflects work completed and work in progress.	<b>Cost Summary:</b>  <b>\$ In millions</b>  1. Award Value: 600.45 2. Executed Modifications: 18.44 3. Approved Change Orders: 0.00 4. Current Contract Value (1+2+3): 618.89 5. Incurred Cost: 606.90					

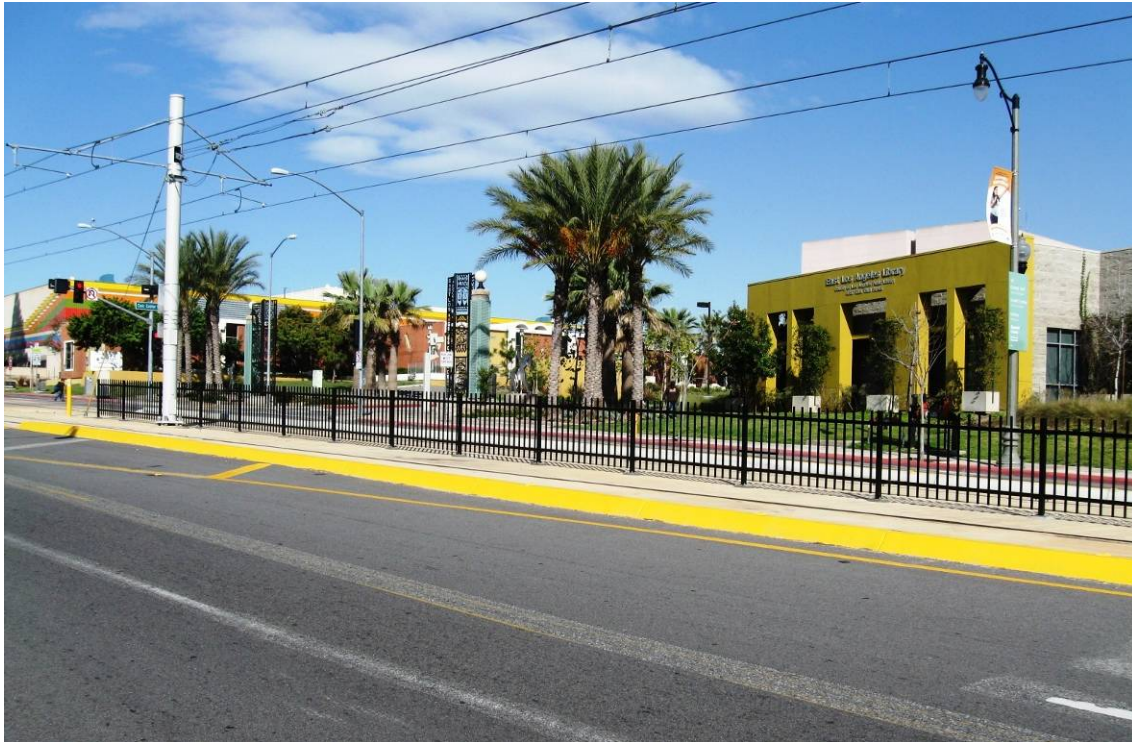
## CONTRACT C0893 STATUS

<b>Description: Pomona Atlantic Parking Structure</b> <b>Contractor: W. M. Klorman Construction Corp.</b>		<b>Contract No. C0893</b> <b>Status as of: April 2, 2010</b>					
<b>Progress/Work Completed:</b>  * Poured the vehicular ramp and retaining wall * Installed barrier cables at all levels * Poured curbs at all levels * Stall striping at all levels * Erected stairs and security screens * Completed the fire sprinkler system * Installed and tested the elevator * Poured Lots A & B curb and gutter * Lots A & B asphalt placement and striping * Applied elastometric and waterproofing coating on the structure  <b>Areas of Concern:</b>  * Metro is reviewing the contractor's time impact analysis caused by heavy rain and additional scope of services requested by Metro and Third Parties, which will move substantial completion beyond the current contract date of 2/18/10.		<b>Major Activities (In Progress):</b>  * Sidewalk on Atlantic Boulevard * Curb, gutter and paving in the alley west of the structure * Lots A & B lighting * Set green screens * Install iron picket fence on perimeter * Landscaping throughout * Fabricate bike racks and lockers  <b>Major Activities Next Period:</b>  * Complete work along Atlantic Boulevard * Complete alley work west of the structure * Complete fence installation * Complete landscaping * Achieve "Substantial Completion" * Demobilize					
<b>Schedule Summary:</b>			Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs
Date of Award: 12/15/08		Notice to Proceed	01/14/09	0	01/14/09	01/14/09	0
Notice to Proceed: 01/14/09		Milestone 1 - Substantial Completion	02/18/10	0	02/18/10	04/09/10	-50
Original Contract Duration: 400 CD							
Current Contract Duration: 400 CD							
Elapsed Time from NTP: 443 CD							
<b>Physical Percent Complete:</b>  Physical completion as of 4/01/10: 98.4% *		<b>Cost Summary:</b> <b>\$ In millions</b>  1. Award Value: 8.15 2. Executed Modifications: 0.13 3. Approved Change Orders: 0.00 4. Current Contract Value (1+2+3): 8.28 5. Incurred Cost: 7.07					
* Note: Physical completion assessment reflects work completed and work in progress.							

## CONTRACT P2550 STATUS

<b>Description: 2550 Rail Vehicle Program</b> <b>Contractor: AnsaldoBreda, Italy (AB)</b>		<b>Contract No. P2550</b> <b>Status as of: April 2, 2010</b>			
<b>Progress/Work Completed:</b> 1. As of March 31, 2010 thirty-two vehicles have been accepted by MTA. 2. Vehicle final assembly work continues in Pittsburg, CA. 3. Shipment of foreign and domestic parts for final assembly continue to arrive in Pittsburg, CA. 4. Several Engineering meetings with AB and its subcontractors have been held during the period to evaluate progress and to close open items. 5. Vehicles No. 739, 735 and 738 are the next vehicles to be accepted in April. 6. Metro Management endorsed a plan to locate all P2550 vehicles at MGD and transfer all P2000 vehicles presently at MGD to MBL. The transfer is ongoing.		<b>Major Activities (In Progress):</b> 1. AnsaldoBreda's manufacturing plants in Pistoia and Naples, Italy have completed the last four carshells and have shipped to USA. Pittsburg plant continues vehicle assembly work. 2. Testing of Vehicles 739 and 738 is ongoing in Los Angeles for next vehicle acceptance. Vehicle 735 has completed testing. 3. Daily/weekly project meetings are held to close open items. 4. AnsaldoBreda Italy has delivered all 100 carshells (50 cars) to Pittsburgh. <b>Major Activities Next Period:</b> 1. Several Technical Progress meetings will be held to emphasize the urgency of resolution of remaining critical items for final acceptance of vehicles. 2. Car 735, 738 and 739 are scheduled to be accepted by the end of April 2010.			
			Quantity	Contract Total Quantity	Balance Due
<b>Schedule Summary:</b> Date of Award: 04/24/03 Notice to Proceed: 06/06/03  Original Contract Duration: 1442 CD  Elapsed Time from NTP: 2399 CD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               <					

## **CONSTRUCTION PHOTOGRAPHS**

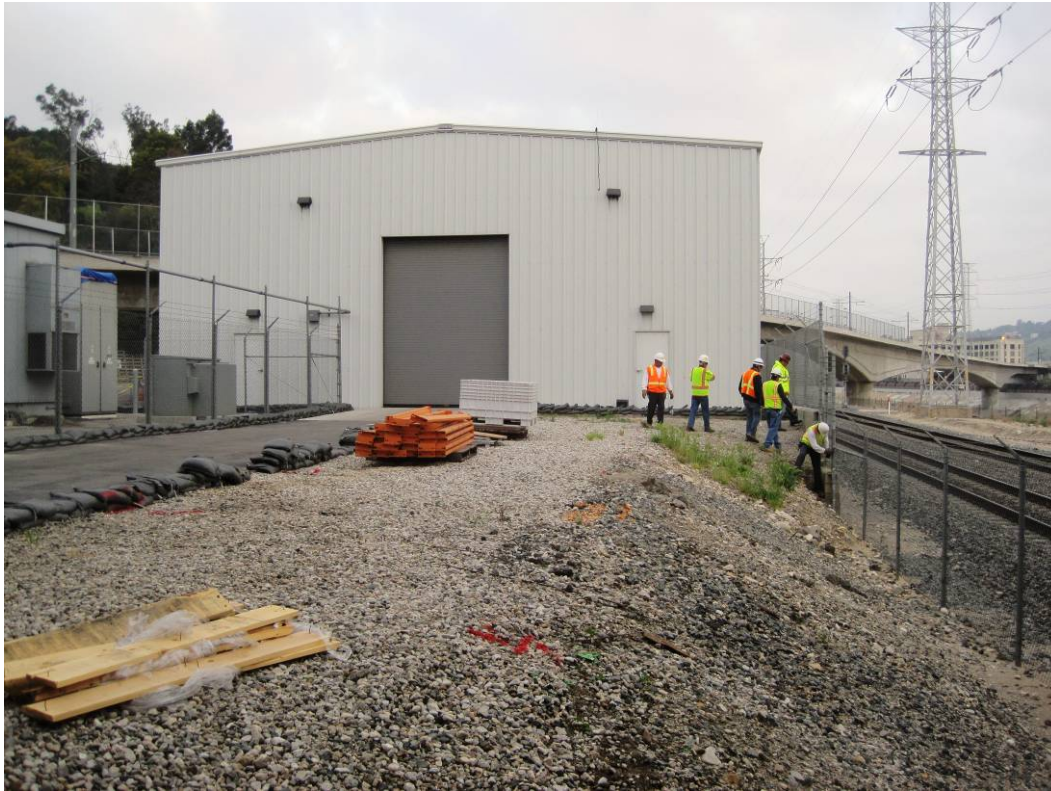


View of pedestrian barrier fencing along 3<sup>rd</sup> Street.



Pomona/Atlantic parking structure.

## **CONSTRUCTION PHOTOGRAPHS**



South end of the future Division 21 Body Repair Shop.



## **APPENDIX**

### **COST AND BUDGET TERMINOLOGY**

**ESTIMATED PROJECT COSTS:** Estimated project costs are based upon the current project cost estimates that are produced during the engineering design phase.

**COMMITMENTS:** The total of actual contract awards, executed change orders or amendments, approved work orders of Master Cooperative Agreements, offers accepted for purchase of real estate, and other LACMTA actions that will result in specific expenditures at a future time.

**INCURRED COST:** The total value of work performed to date of services received, and acquired materials or properties.

**EXPENDITURES:** The total dollar amount of checks written by the LACMTA's Accounting department for contractor or consultant invoices, third party invoices, staff salaries, and closing payments for escrow accounts that is reported in the LACMTA's Financial Information System (FIS).

**CONSTRUCTION:** Includes guideways, yards and shops, systems equipment, stations, and vehicles.

**PROFESSIONAL SERVICES:** Includes general engineering, construction management services, consultant design support services during construction, legal counsel, and agency (LACMTA staff) costs.

**RIGHT-OF-WAY:** Includes real estate appraisals, purchase cost of parcels, easements, right-of-entry permits, escrow fees, and tenant relocation.

**UTILITY/AGENCY FORCE ACCOUNT:** Includes work by outside agencies and utilities in design coordination and review.

**CONTINGENCY:** A fund established at the beginning of a project to provide for anticipated but unknown additional costs that may arise during the course of the project.

**SPECIAL CONDITIONS:** Includes utilities relocation, environmental compliance and mitigation, master cooperative agreements, insurance program, artwork, systems integration testing and pre-revenue operations.



## **APPENDIX**

### **LIST OF ACRONYMS**

AFE	Authorization For Expenditure
ATC	Automatic Train Control
CADD	Computer Aided Drafting and Design
CALTRANS	California Department of Transportation
CD	Calendar Day
CM	Construction Manager
CMAQ	Congestion Mitigation Air Quality
CN	Change Notice
CO	Change Order
CNFPFA	Concurrent Non-FFGA Project Activities
CPM	Critical Path Method
CPUC	California Public Utilities Commission
CR	Camera Ready
CTC	California Transportation Commission
CUD	Contract Unit Description
DB	Design/Build
DBB	Design/Bid/Build
DD	Design Development
DOT	Department of Transportation
DWP	Department of Water and Power
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
EPBM	Earth Pressure Balance Machine
ESP	Eastside LRT Partners
FAR	Federal Acquisition Regulation
FD	Final Design
FEIS	Final Environmental Impact Statement
FEIR	Final Environmental Impact Report
FFGA	Full Funding Grant Agreement
FIS	Financial Information System
FSEIR	Final Supplemental Environmental Impact Report
FSEIS	Final Supplemental Environmental Impact Statement
FTA	Federal Transit Administration
FTE	Full Time Equivalent
GDSR	Geotechnical Design Summary Report
IFB	Invitation for Bid
IPO	Integrated Project Office
JV	Joint Venture
LA	Los Angeles
LABOE	Los Angeles Bureau of Engineering
LACFCD	Los Angeles County Flood Control District
LACMTA	Los Angeles County Metropolitan Transportation Authority
LADOT	Los Angeles Department of Transportation

**APPENDIX**  
**LIST OF ACRONYMS (Continued)**

LADPW	Los Angeles Department of Public Works
LADWP	Los Angeles Department of Water and Power
LAUSD	Los Angeles Unified School District
LNTP	Limited Notice To Proceed
LONP	Letter Of No Prejudice
LRT	Light Rail Transit
L RTP	Long Range Transportation Plan
LRV	Light Rail Vehicle
MIS	Major Investment Study
MPSR	Monthly Project Status Report
N/A	Not Applicable
NEPA	National Environmental Protection Act
NPDES	National Pollution Discharge Elimination System
NTE	Not to Exceed
NTP	Notice To Proceed
OCIP	Owner-Controlled Insurance Program
P3	Primavera Project Planner® (scheduling software)
PC	Project Control
PE	Preliminary Engineering
PEER	Permit Engineering Evaluation Report
PGL	Pasadena Gold Line
PIP	Project Implementation Plan
PM	Project Manager
PMA	Project Management Assistance
PMIP	Project Management Implementation Plan
PMOC	Project Management Oversight Consultant
PMP	Project Management Plan (manual)
P&P	Policies & Procedures
PR	Project Report
PSR	Project Study Report
QA	Quality Assurance
QAR	Quality Assurance Report
QC	Quality Control
QPSR	Quarterly Project Status Report
RAC	Review Advisory Committee
RAG	Rail Activation Group
RFC	Request For Change
RFP	Request For Proposal
ROD	Record Of Decision
ROD	Revenue Operations Date
ROM	Rough Order of Magnitude

**APPENDIX**  
**LIST OF ACRONYMS (Continued)**

ROW	Right-Of-Way
SCAQMD	Southern California Air Quality Management District
SCE	Southern California Edison
SCRRA	Southern California Regional Rail Authority
SHA	State Highway Account
SHPO	State Historic Preservation Office
SIT	System Integration Testing
SOV	Schedule Of Value
SOW	Statement Of Work
SP	Special Provision
STIP	State Transportation Improvement Program
STP	Surface Transportation Program
TBD	To Be Determined
TBM	Tunnel Boring Machine
TCRP	Traffic Congestion Relief Program
TPSS	Traction Power Substation
TRACS	Transit Automatic Control System
UFS	Universal Fare System
USDOT	U.S. Department Of Transportation
VE	Value Engineering
WBS	Work Breakdown Structure
WP	Work Package