



# Metro Orange Line Extension

## MONTHLY PROJECT STATUS REPORT



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## **PROJECT OVERVIEW**

*The Metro Orange Line (MOL) Extension Project is a four-mile extension of the Metro Orange Line extending from the Canoga park-and-ride lot to the Chatsworth Metrolink Station. The Project includes: busway, new station platforms at the Canoga park-and-ride lot, new stations at Sherman Way (with park-and-ride), Roscoe Boulevard, Nordhoff Street, and the Chatsworth Metrolink Station (with park-and-ride); grade-separation structure over active railroad tracks and Lassen Street (Lassen/RR Overcrossing) providing direct access into the Chatsworth Metrolink Station; Los Angeles River and Santa Susana Wash bridge crossings; and satellite bus parking facility. The project also includes street improvements, bicycle/pedestrian path, systems equipment and landscaping similar to the MOL.*

With the MTA Board adoption of the MOL Extension Project in January 2009, the Board directed staff to accelerate the completion of the Project to summer 2012.

### Major Accomplishments:

- Constructed the north parking lot at Chatsworth station,
- Completed final design and obtained approvals of the bridge over Metrolink tracks and Lassen Street,
- Relocated tracks and completed new rail signals (by Metrolink),
- Completed all real estate relocations and acquired easements from UP,
- Constructed the Privacy Fence at Chatsworth Mobile Home Park (CMHP),
- Completed lead and asbestos abatement of vacant structures.

The design builder, Brutoco Engineering & Construction, Inc, started on March 1, 2010 and is responsible for the construction of the Lassen/RR Overcrossing and Lassen Street improvements as well as for the design and construction of the remaining Project scope of work. The design builder has started:

- Construction of the underground utility work on Lassen Street,
- Demolition of vacant structure and removal of hazardous soils,
- Began preparatory work for abutment no, 4 of Lassen/RR Overcrossing.
- Final design of the busway street crossings, bikeway, stations and remaining bridges.

MTA negotiated LADWP power and communication field changes for underground work on Lassen Street.

### Other Project specific items required for revenue operations includes:

- Purchase and install fare collection equipment - issued a change notice (Contract Modification pending) in June 2010 to Cubic Transportation Systems, Inc.,
- Station Artwork – select artists for station artwork in summer 2010, and
- Vehicles – complete a midlife overhaul of existing Orange Line buses and add buses to the fleet in time for a summer of 2012 opening.

To date, commitments are \$107.9 million or 50.1% of the Original Budget. Expenditures are \$24.8 million or 11.5% of the \$215.6 million Original Budget.

Design-builder's final design percent complete is 48% and construction physical percent complete is 2.3%.

## **MANAGEMENT ISSUES**

**Concern No. 1:** Metrolink to issue the permit for the relocation of LADWP power lines and MTA to execute contract modifications for field changes on Lassen Street.

**Status/Action** Metrolink issued permit to the design-builder for the construction work under tracks and the Lassen/RR Overcrossing. Metrolink to issue permit to LADWP and Time Warner for relocation of overhead lines. MTA has issued contract modifications for design changes for design-builder's signature.

**PROJECT SCOPE**



**C0943: Metro Orange Line Extension (MOL Ext)** is a design-build contract to construct the majority of the Project scope of work. This contract will include design and construction of busway, new stations at Sherman Way (with park-and-ride), Roscoe Boulevard, Nordhoff Street, and Chatsworth Metrolink Station (with park-and-ride). The existing MOL Canoga park-and-ride lot will be modified with new station platforms. In addition, the contractor will design and construct approaches to the Lassen/RR Overcrossing, a bridge over the Los Angeles River, a smaller bridge over the Santa Susana Wash, street improvements, bicycle/pedestrian path, satellite bus parking facility, landscaping, systems equipment, and system integration and testing. In August 2009, the Lassen/RR Overcrossing (500' long 3-span bridge over active railroad tracks/Lassen Street) and Lassen Street Improvements were added to Contract C0943.







**C0941: North Parking Lot (Chatsworth Station)** is a construction contract for a new parking lot to be constructed north of the existing Chatsworth Metrolink Station. Completion of this lot is required before the south parking lot is modified to ensure that parking is continuously available for Metrolink patrons during construction of the MOL Extension.

**Work Order – Advance Metrolink Rail Signal Modifications, Track Realignment, and At-Grade Lassen Crossing Enhancements** is to be substantially completed by Metrolink in advance of the Design-Build Contractor commencing construction of portions of the bridge.

**Work Order - Advance Relocation of power, fiber optic and communication lines on Lassen Street** is to be completed by LADWP and the affected utility companies prior to the Design-Build Contractor commencing construction of portions of the bridge.

**KEY MILESTONE SCHEDULE SIX-MONTH LOOK AHEAD**

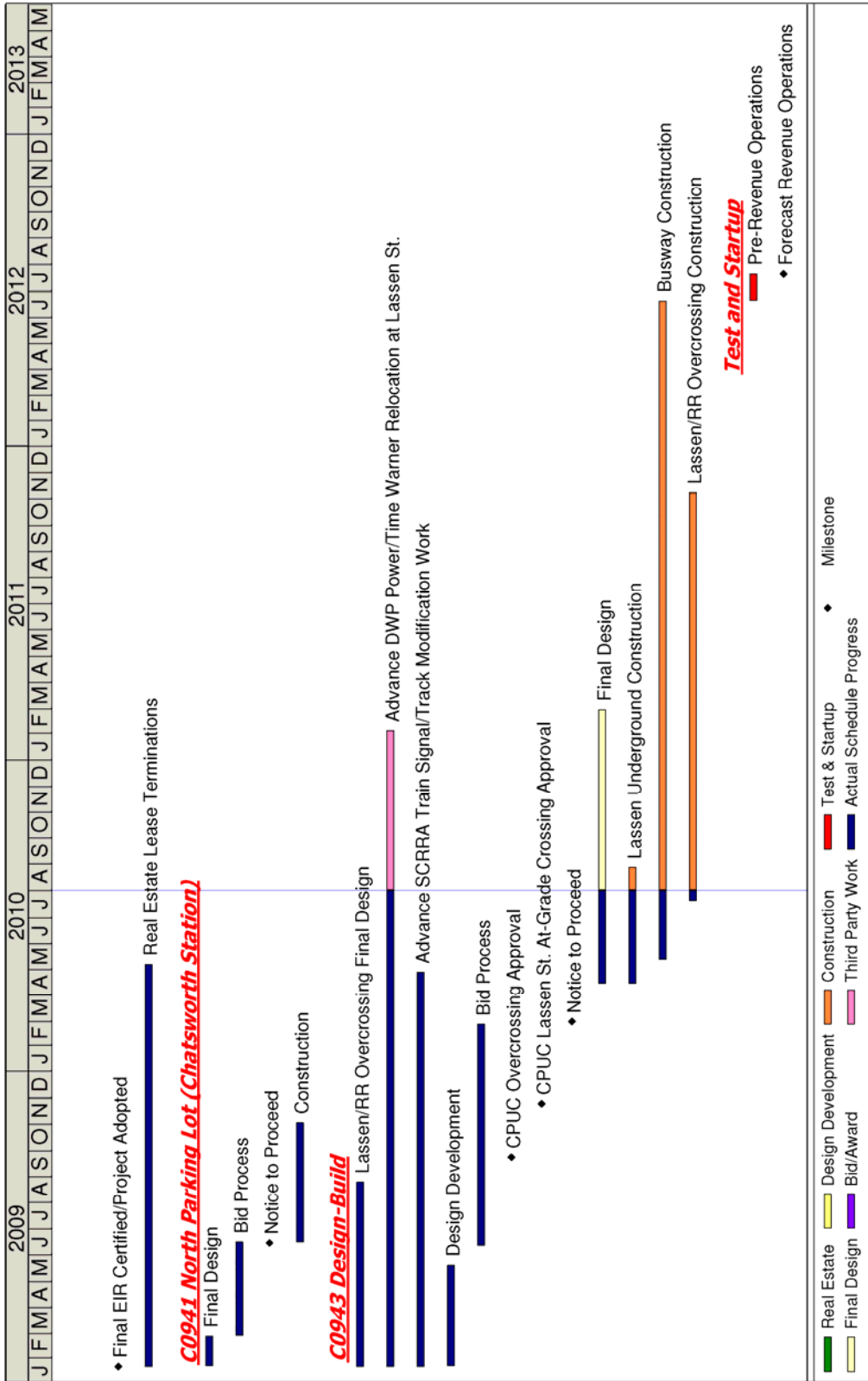
	Milestone Date	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10
(Forecast) C0943: Commence Clear and Grub	7/6/10A	■					
(Forecast) C0943: Commence Bridge Abutment 4 Construction	7/21/10A	■					
(Forecast) C0943: Option C - Complete DWP Underground Conduit System Construction	8/30/10*		■				
(Forecast) C0943: Commence Bridge Abutment 1 Construction	8/31/10*		■				
(Forecast) LADWP Commence Underground Relocation of Power Lines on Lassen Street	9/1/10*			△			
(Forecast) C0943: Commence Bridge Bent 2 Construction	9/20/10*			■			
(Forecast) C0943: Commence Bridge Bent 3 Construction	9/24/10*			■			
(Forecast) C0943: Grade for Bridge Falsework Construction	12/13/10*						■

 MTA Staff	 MTA Design Consultant	 MTA Board Action
 Other Agencies	 Contractor	 New Date

**SCHEDULE NARRATIVE**

Based upon the contractor’s second baseline schedule update the critical path begins with the 85% design submittal and approval by the City of Los Angeles of the design and subsequently with the construction of intersections at Prairie, Nordhoff, Valerio, and Van Owen Streets. The critical path concludes with system wide acceptance testing, pre-revenue operations, and the start of revenue operation.

**SUMMARY SCHEDULE**



**PROJECT COST STATUS - 800119**

**COST REPORT BY ELEMENT**

UNITS IN MILLIONS

ELEM- MENT	DESCRIPTION	ORIGINAL BUDGET	CURRENT BUDGET		COMMITMENTS		EXPENDITURES		CURRENT FORECAST		FORECAST VARIANCE
			PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	
C	CONSTRUCTION	137.3	-	137.3	-	85.0	5.0	13.7	-	119.6	(17.7)
R	RIGHT-OF-WAY	8.0	-	8.0	-	3.7	0.1	1.7	-	5.0	(3.0)
V	VEHICLES / BUSES	9.9	-	9.9	-	-	-	-	-	9.9	-
P	PROFESSIONAL SERVICES	38.7	-	38.7	-	19.2	1.9	9.4	-	33.8	(4.9)
PC	PROJECT CONTINGENCY	21.7	-	21.7	-	-	-	-	-	18.7	(3.0)
PB	PROJECT RESERVE	-	-	-	-	-	-	-	-	28.6	28.6
PR	PROJECT REVENUE	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>		<b>215.6</b>	<b>-</b>	<b>215.6</b>	<b>-</b>	<b>107.9</b>	<b>7.0</b>	<b>24.8</b>	<b>-</b>	<b>215.6</b>	<b>-</b>

NOTE: EXPENDITURES ARE CUMULATIVE THROUGH JUNE 2010.

**PROJECT COST ANALYSIS**

**Original Budget and Current Budget:**

The Life of Project Budget for the Metro Orange Line Extension Project was adopted in January 2009 for a value of \$215.6 million.

**Current Forecast:**

The total project forecast remains the same at \$215.6 million.

**Commitments:**

The commitments remain the same this period. The \$107.9 million in commitments to date represents 50.1% of the Original Budget.

**Expenditures:**

The expenditures are cumulative through June 2010. The expenditures increased by \$7.0 million this period. In the construction element there was an increase of \$5.0 million for cost associated with the Design-Build Contract C0943, Chatsworth Mobile Home Park Privacy Fence Contract C0954, and third party scope of work. In the Right-Of-Way element there was an increase of \$0.1 million primarily due to relocation costs for qualified tenants of real estate properties. In the Professional Services element there was an increase of \$1.9 million for costs associated with design engineering consultant, construction management support, specialty services, and MTA project administration. The \$24.8 million in expenditures to date represents 11.5% of the current budget.



**FINANCIAL/GRANT STATUS**

**Project 800119 – Metro Orange Line Extension**

**JULY 2010**

**STATUS OF FUNDS BY SOURCE**

\$ in millions

SOURCE	(A)	(B)	(C)	(D)	(D/B)	(E)	(E/B)	(F)	(F/B)
	ORIGINAL	TOTAL	TOTAL	COMMITMENTS		EXPENDITURES		BILLED to	FUNDING
	BUDGET	FUNDS	FUNDS	\$	%	\$	%	\$	SOURCE
	(1)	ANTICIPATED	AVAILABLE					\$	%
	(2)								
PROP 1B FUNDS-PTMISEA*	68.0	68.0	40.5	68.0	100%	24.8	36%	21.3	31%
PROP 1B FUNDS-SLTPP**	73.8	73.8		39.9	54%		0%		0%
PROP C 25%	73.8	73.8			0%		0%		0%
<b>TOTAL</b>	<b>215.6</b>	<b>215.6</b>	<b>40.5</b>	<b>107.9</b>	<b>50%</b>	<b>24.8</b>	<b>11%</b>	<b>21.3</b>	<b>10%</b>

(1) Based on January 2009 MTA Board adoption of Life of Project Budget.

(2) Based on March 2009 Capital Programming Revised Financial Plan.

\* PTMISEA: Public Transportation Modernization and Improvement Surface Enhancement Account

\*\* SLTPP: State - Local Transportation Partnership Program

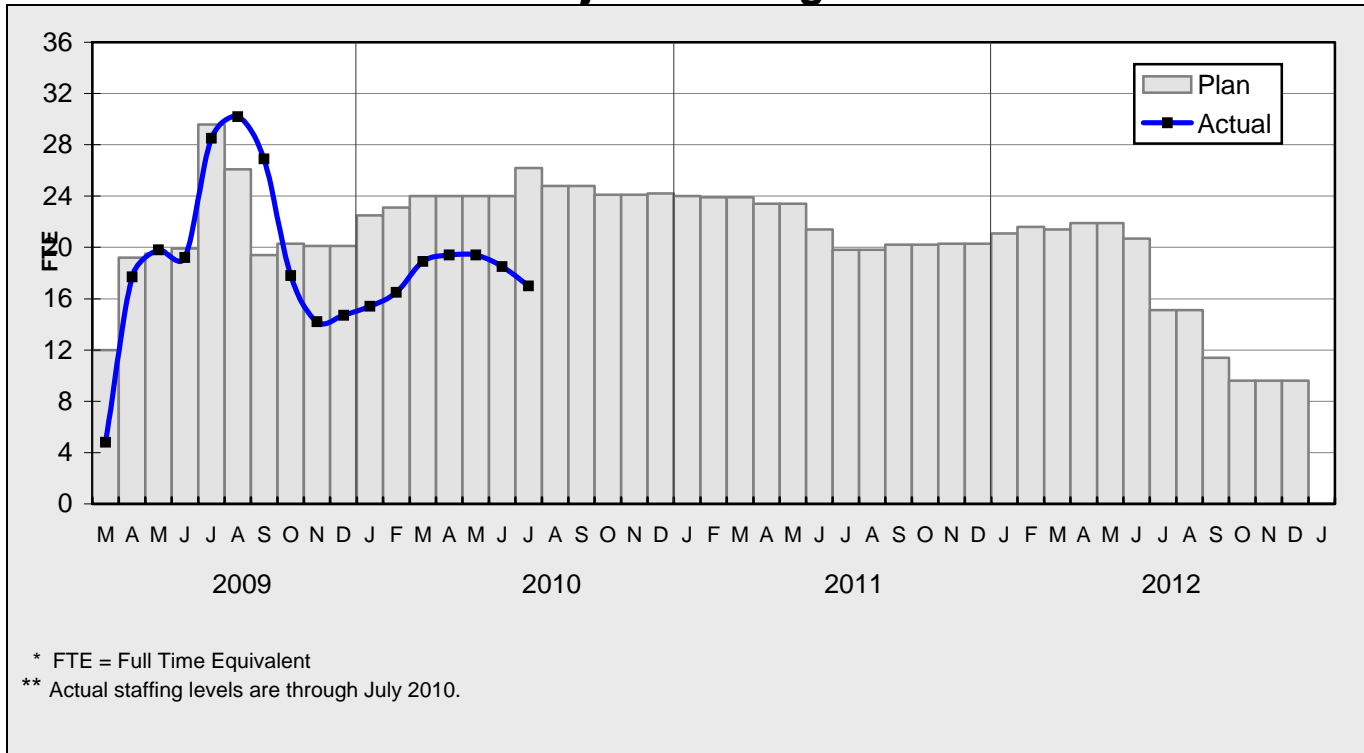
NOTE: Expenditures are cumulative through June 2010.

**STATUS OF FUNDS ANTICIPATED**

**STATE PROP 1B – PTMISEA:** MTA submitted a state application for \$8.9 million in September 2008. The State approved the \$8.9 million application in March 2009. Funds were received in July 2009 and are available for drawdown. MTA submitted a request to Caltrans to allocate \$31.6 million of FY09 funds to the project. The allocation was approved in November 2009 and funds have been received. MTA submitted a request to Caltrans to allocate \$29.5 million of FY10 funds to the Project. The allocation is expected to be approved by September 2010.

**STATE PROP 1B – SLTPP:** MTA requested an allocation of \$14.7 million in SLPP funds at the December 2009 CTC Meeting and the allocation was not approved. At the January 2010 CTC Meeting, the CTC approved a request to use \$14.7 million in Measure R Transit Capital 35% funds for a Proposition 1B Letter of No Prejudice arrangement in lieu of the FY 2010 SLTPP funds. Based on the passage of AB672, MTA will use the substitute funding and will seek reimbursement from the state in the future. MTA submitted to the CTC an allocation request for \$34.1 million in SLTPP funds in May 2010. The CTC will review the allocation request at their September 2010 Meeting.

**STAFFING STATUS  
Total Project Staffing - FTES**



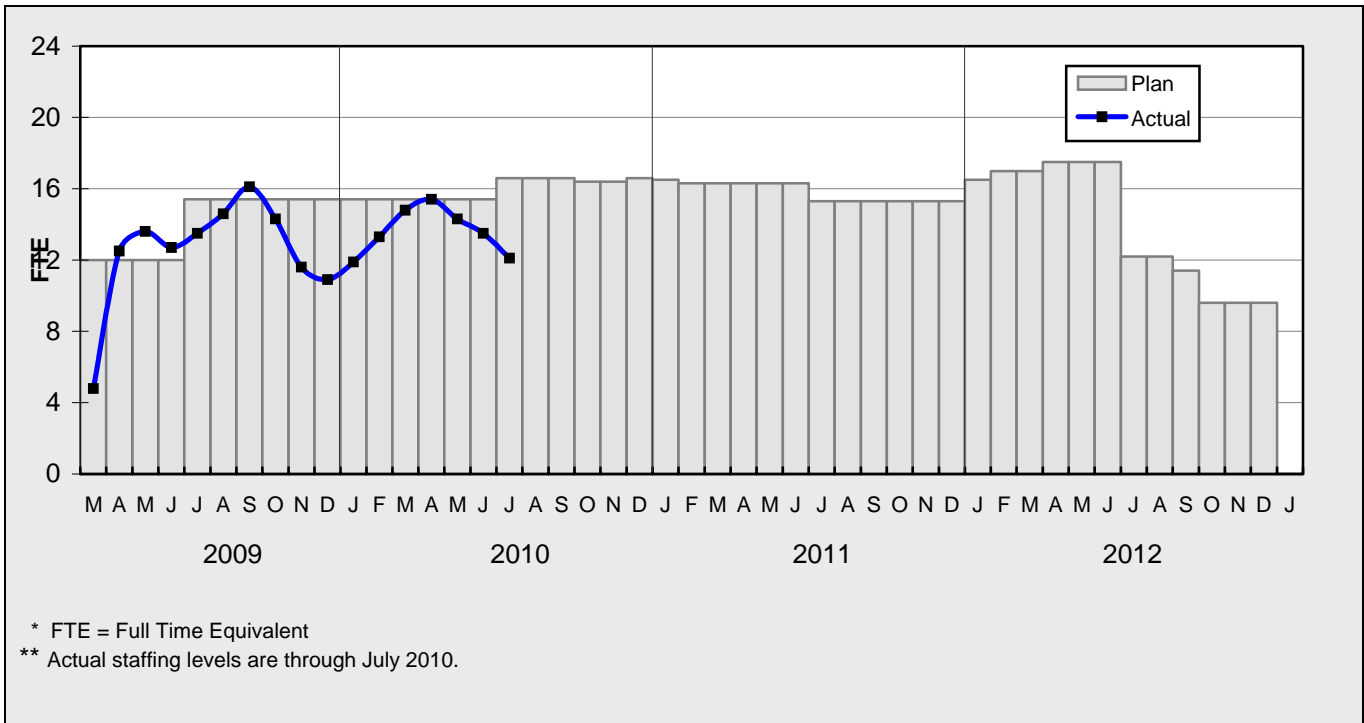
**Total Project Staffing**

The overall FY11 Total Project Staffing plan averages 25.1 FTE's per month.

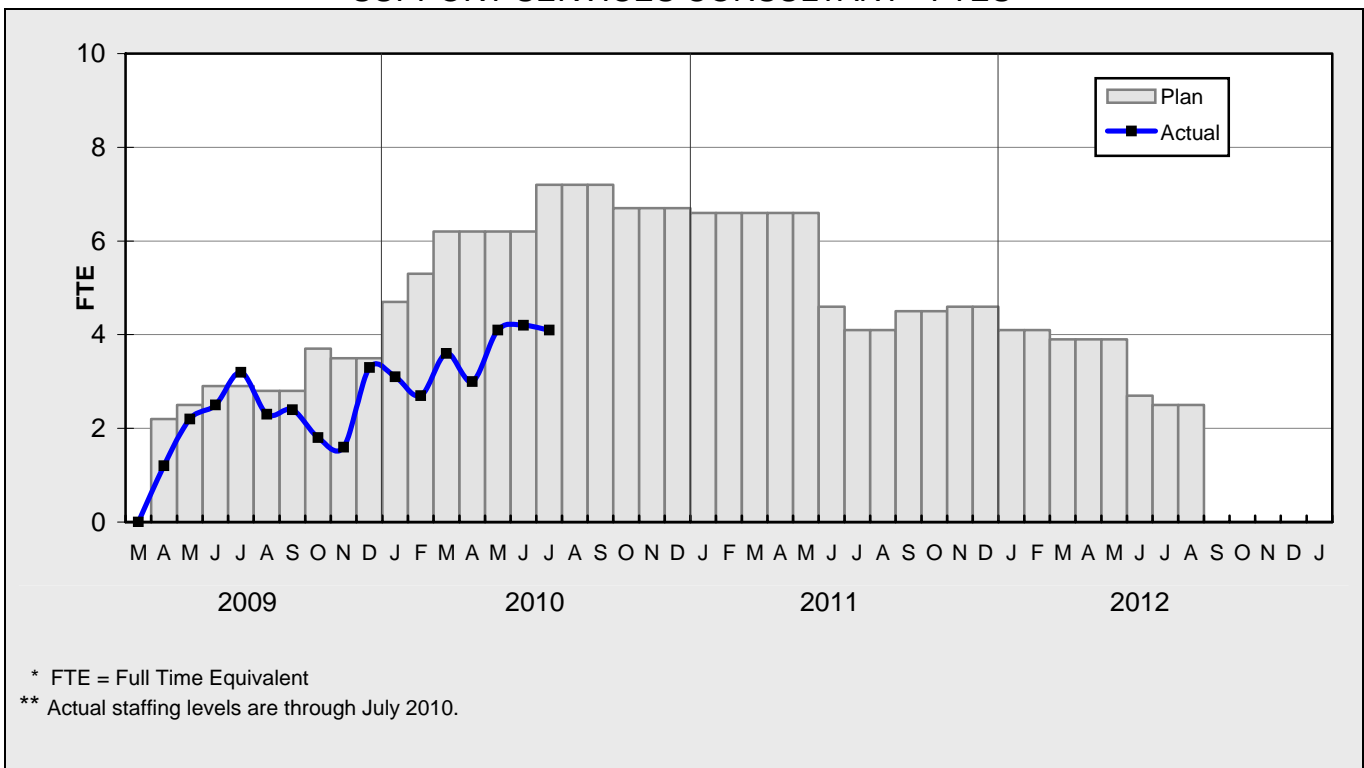
For July 2010, there were a total of 12.1 FTE's for MTA's Project Administration staff and 4.9 FTE's for consulting staff. The total project staffing was 17.0 FTE's for July 2010.

**STAFFING STATUS**

**MTA STAFFING - FTES**

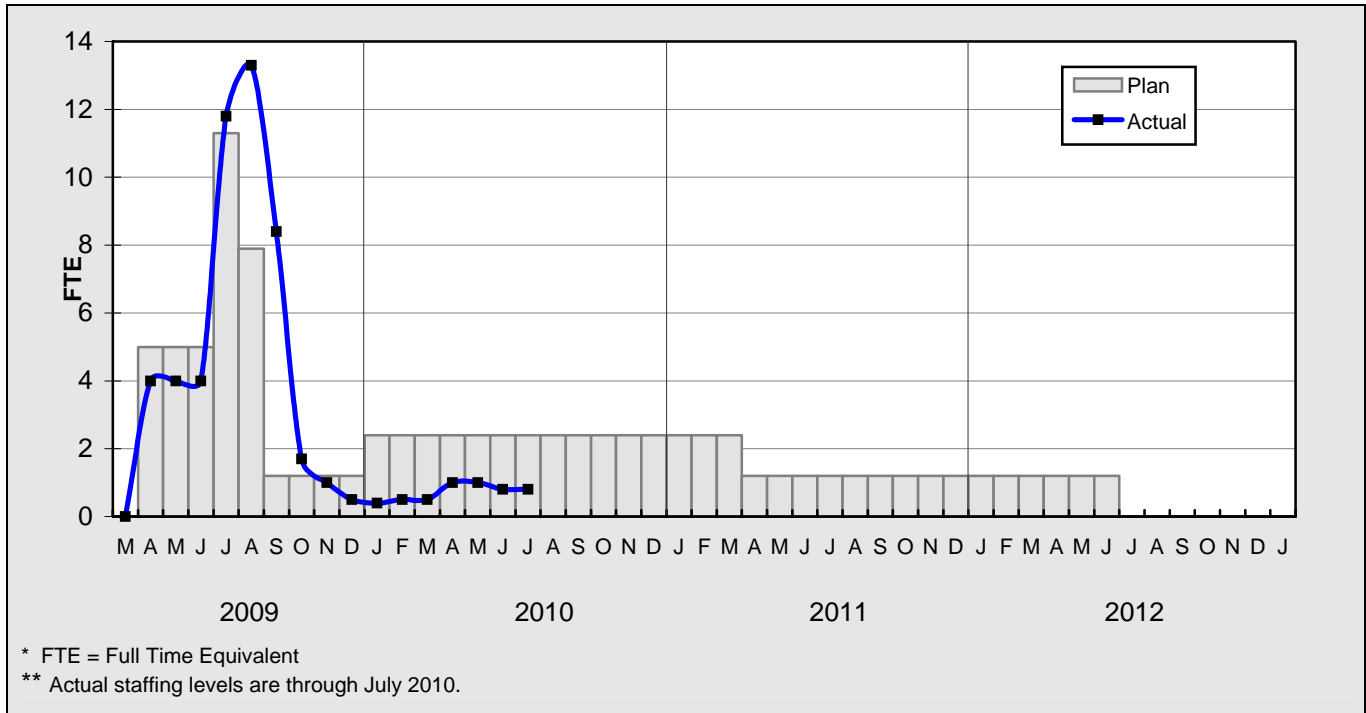


**CONSTRUCTION MANAGEMENT  
SUPPORT SERVICES CONSULTANT - FTES**



## STAFFING STATUS

### ENGINEERING SERVICES CONSULTANT



**REAL ESTATE STATUS**

- The Easement over the UP property for the bridge has been executed and recorded. The Street Eastment has been signed by UP and delivered to the City of Los Angeles for execution and recordation. The City has revised the legal description to the deed. The revised legal description has been forwarded to UPRR for approval.
- LADWP and Time Warner submitted applications to UP for licenses to install underground utilities across UP property on Lassen Street.
- MTA Real Estate submitted License Agreements to LADWP and Time Warner to install underground utilities across MTA property on Lassen Street.
- All real estate relocations have been completed except for the processing of the final payment to one tenant.

**LEASES**

- All Real Estate work required to clear the ROW is completed.

	Total Leases	Total Leases to be Terminated	Total Leases to Remain with Modified Lease	Leases to Remain Under Existing Lease	Relocations Completed	Total Signboards Removed
Leases	82	78	3	1	52	26

**QUALITY ASSURANCE STATUS**

- Attended weekly job and readiness review meetings with Brutoco.
- Monitored underground conduits installation on Lassen Street.
- Monitored clearing, grubbing and installation of chain link fences along the alignment.

## **ENVIRONMENTAL STATUS**

- Completing the review of documents with the Department of Toxic Substances for soil mitigation, soil sampling, and air monitoring purposes.
- Completing Stormwater Pollution Prevention Plan Notice of Intent (SWPPP NOI) recertification process as required by new Stormwater General Permit Requirements.
- Completed asbestos and lead paint removal; impacted structures were demolished after clean-up.
- Completed SWPPP Notice of Termination for the North Parking Lot area and submitted to the State Water Resources Control Board.
- Continued monitoring mitigation measures as described in the EIR.

## **COMMUNITY RELATIONS STATUS**

- Facilitated request to use lot as an overflow parking lot on Canoga & Saticoy for New Economics for Women Organization.
- Coordinated meeting for both Mobile Home Parks north of Parthenia regarding privacy wall.
- Disseminated five Construction Notices:
  1. C Staging Area Set-up @ Chatsworth Metrolink Station south parking lot;
  2. K-rail placement and boring pits on Lassen Street;
  3. Potholing along Canoga Avenue;
  4. Abutment construction @ Chatsworth Metrolink Station south parking lot;
  5. Hazardous soil removal along the right-of-way.

## **ART DEVELOPMENT STATUS**

- Held artist selection panel meetings for the North and South End of the alignment. Fifteen artists presented art concept designs.
- The panelists ranked the proposals and provided comments to the station artists.

**SAFETY STATUS**

**CO943:**

- Participated in meetings, reviewed and approved Contractor’s Job Hazard Analysis, Jack Pit and Boring Operation, and Safety Incentive Program submittals.
- Conducted pre-job inspection with Brutoco’s subcontractors prior to Cal OSHA’s Mining and Tunneling.
- Brutoco and their subcontractors reported zero incidents and 7,857 work hours for the month of July 2010. Total project to date work hours are 14,744 and the incident rate is zero.

**THIRD PARTY AGREEMENT STATUS**

<b>Third Party</b>	<b>Type of Agreement</b>	<b>Forecast Execution Date</b>	<b>Required Need Date</b>	<b>Status/ Comments</b>
City of Los Angeles	Licensing Agreement	9/10	N/A	Licensing agreement has been agreed upon by LADOT. The agreement is currently under review by MTA County Counsel.
City of Los Angeles	O & M Agreement	9/10	N/A	The O&M agreement for the Chatsworth Metrolink Station site has been reviewed by MTA and transmitted to the City for their review.
L.A. County Department of Public Works/L.A. County Flood Control District	Agreement	6/10	N/A	Master Cooperative Agreement executed 1991 between SCRTD and LA County Flood Control District. Work Order for design review and permits in process.

**Note: For a list of all Third Party Agreements, that have been executed, please see the May 2010 Monthly Project Status Report.**

**CONTRACT C0943 STATUS**

<p><b>Design/Build Contract</b> <b>Contractor: Brutoco, Engineering and Construction, Inc.</b></p>	<p><b>Contract No.: C0943</b> <b>Status as of: July 30, 2010</b></p>																																																					
<p><b>Progress/Work Completed:</b>                  - Completed 60% of DWP and Time Warner underground duct work on Lassen Street including various changes for underground work at Lassen Street.                  - Completed 85% of the intersections at Roscoe, Parthenia, Nordoff and Prairie.                  - Completed 60% design of the busway, bikeway, and Canoga Avenue north of Santa Susana Wash.</p> <p><b>Areas of Concern:</b>                  - The schedule of underground utility work on Lassen Street (Option C) has been extended due to delays in Metrolink permit and field changes. MTA is working with Design Builder on mitigation opportunities. The forecast completion for Milestone "Option C" shown in the milestone table below is under evaluation.</p>	<p><b>Major Activities (In Progress):</b>                  - 60% design submittals for the remaining City intersections, busway and bikeway.                  - 85% design submittals for busway, bikeway, and Canoga Avenue north of Santa Susana Wash.                  - 85% design submittals for stations, landscaping and Los Angeles River and Santa Susana Wash bridges.                  - Right-of-way clearing. Demolition of vacated structures.                  - Began boring/jacking utilities beneath the RR tracks on Lassen Street.                  - Began preparatory work for Abutment 1 bridge construction.</p> <p><b>Major Activities Next Period:</b>                  - Continue design submittals.                  - Continue boring/jacking utilities beneath the RR tracks on Lassen Street and right-of-way clearing.                  - Start pile installation for Abutment No. 1 and 4 of Lassen Bridge.</p>																																																					
	<table border="1"> <thead> <tr> <th></th> <th>Original Contract Dates</th> <th>Time Extension</th> <th>Current Contract</th> <th>Forecast</th> <th>Variance CDs</th> </tr> </thead> <tbody> <tr> <td>Milestone 1 - Contract Substantial Completion</td> <td>03/01/12</td> <td>0</td> <td>03/01/12</td> <td>03/01/12</td> <td></td> </tr> <tr> <td>Milestone 2 - Complete Universal Fare System Requirements</td> <td>11/02/11</td> <td>0</td> <td>11/02/11</td> <td>11/02/11</td> <td></td> </tr> <tr> <td>Milestone 3 - Elect/Communication Requirements Complete</td> <td>01/31/12</td> <td>0</td> <td>01/31/12</td> <td>01/31/12</td> <td></td> </tr> <tr> <td>Milestone 4 - Passenger Information System Testing Complete</td> <td>04/01/12</td> <td>0</td> <td>04/01/12</td> <td>04/01/12</td> <td></td> </tr> <tr> <td>Milestone 5 - Complete</td> <td>04/02/13</td> <td>0</td> <td>04/02/13</td> <td>04/02/13</td> <td></td> </tr> <tr> <td>Milestone 6 - Landscape and Planting Maintenance and Warranty</td> <td>03/02/14</td> <td>0</td> <td>03/02/14</td> <td>03/02/14</td> <td></td> </tr> <tr> <td>Option C - Complete DWP Powerline Overhead at Lassen Street</td> <td>05/31/10</td> <td>0</td> <td>05/31/10</td> <td>8/30/2010</td> <td>-91</td> </tr> </tbody> </table>							Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs	Milestone 1 - Contract Substantial Completion	03/01/12	0	03/01/12	03/01/12		Milestone 2 - Complete Universal Fare System Requirements	11/02/11	0	11/02/11	11/02/11		Milestone 3 - Elect/Communication Requirements Complete	01/31/12	0	01/31/12	01/31/12		Milestone 4 - Passenger Information System Testing Complete	04/01/12	0	04/01/12	04/01/12		Milestone 5 - Complete	04/02/13	0	04/02/13	04/02/13		Milestone 6 - Landscape and Planting Maintenance and Warranty	03/02/14	0	03/02/14	03/02/14		Option C - Complete DWP Powerline Overhead at Lassen Street	05/31/10	0	05/31/10	8/30/2010	-91
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<p><b><u>Schedule Summary:</u></b></p> <p>Date of Award: 02/10/10                  Notice to Proceed: 03/01/10                  Original Substantial Completion Duration: 730                  Current Substantial Completion Duration: 730                  Elapsed Time from NTP: 152</p>	<p><b>Cost Summary:</b> <span style="float: right;"><b>\$ In 000's</b></span></p> <p>1. Award Value: 82.49                  2. Executed Modifications: 0.00                  3. Approved Change Orders: 0.19                  4. Current Contract Value (1 + 2 + 3): 82.68                  5. Incurred Cost: 13.70</p>																																																					



## **CHRONOLOGY OF EVENTS**

January 5, 2010	Notice to proceed to GMX Construction, Inc., for Contract No. C0954 Chatsworth Mobile Home Privacy Fence.
January 13, 2010	CTC approved a request to use \$14.7 million in Measure R Transit Capital 35% funds for a Proposition 1B Letter of No Prejudice arrangement in lieu of FY2010 SLPP funds.
January 19, 2010	Metrolink completed realignment of approx. 3,300 feet of existing active track.
February 10, 2010	Issued Notice of Award to Brutoco Engineering & Construction, Inc. for Contract No. C0943 Design- Build.
February 26, 2010	Issued Notice-to-Proceed to Brutoco Engineering & Construction, Inc. for Contract No. C0943 Design-Build, effective March 1, 2010.
March 24, 2010	Set up Integrated Project Management Office at construction site.
April 26, 2010	MTA executed agreement with Union Pacific (UP) for various easements for the Lassen bridge located in UP property.
May 3, 2010	Completed all real estate relocations.
May 7, 2010	Metrolink completed new rail signal work and removed existing signals equipment.
May 14, 2010	Completed Privacy Fence at Chatsworth Mobile Home Park (CMHP).

**Note: For Chronology of Events prior to January 2010, see the May 2010 Monthly Project Status Report.**

## CONSTRUCTION PHOTOGRAPHS



Right-of-way demolition at Sherman Way and Canoga Avenue.