# Westside Purple Line Extension Section 1 Project



# WESTSIDE PURPLE LINE EXTENSION SECTION 1 PROJECT

MONTHLY 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).

# **TABLE OF CONTENTS**

	Page No
Project Summary	1
Project Overview & Status	2-4
Management Issues	4
Project Alignment by Sections	5
Project Alignment Section 1	6
Base Project Scope	7-9
Project Status	
Project Schedule	
Key Milestones Six-Month Look Ahead	10
o Project Summary Schedule	11
o Schedule Measurements	12
Overall Construction Progress Curve	13
Major Equipment Delivery	14
o Design-Builder's (C0145) Long Lead Item List	15
o Critical Path Narrative	16
o Project Schedule Contingency Drawdown	17
o Project Schedule Contingency Drawdown Analysis	17
Project Cost	
o Project Cost	18
o Project Cost Analysis	18
Project Cost Contingency Drawdown	19
o Project Cost Contingency Drawdown Analysis	19
o Disadvantaged Business Enterprise (DBE)	20
o Project Labor Agreements (PLA) Status	21
o Summary of Contract Modifications	22
Financial/Grant	
o Financial/Grant	23
o Status of Funding	23
Staffing	
o Total Project Staffing	24
o Metro Staffing	25

# **TABLE OF CONTENTS** (Continued)

	Page No.
Construction Management Services Consultant	25
Engineering Management Services Consultant	26
Real Estate	27
Quality Assurance	27
Environmental	28
Construction Relations	29
Creative Services	29
Safety & Security	30
Third Party Agreement & Status	31
Advanced Utility Relocation Status	32
Peak Hour and Nighttime Construction Variances	33
Chronology of Events	34-35
Construction Contracts	
o Contract C1034 Status	36
o Contract C1045 Status	37
o Contract C1048 Status	38
o Contract C1055 Status	39
o Contract C1056 Status	40
Construction Photographs	41-42
Appendices	
Cost and Budget Terminology	43
List of Acronyms	44-47

# **PROJECT SUMMARY**

LOCATION: Los Angeles / Beverly Hills CONSTRUCTION MANAGEMENT CONSULTANT: WEST, a Joint Venture **DESIGN CONSULTANT:** Parsons / Brinckerhoff CONTRACTOR: Skanska, Traylor and Shea, a Joint Venture **VAULT 702 CONDUIT FAIRFAX SOUTH OF WILSHIRE** WORK COMPLETED PAST MONTH



- Continuing real estate acquisitions
- C1045 Design/Build: Issued Contract Notice to Proceed
- C1056 Wilshire/La Cienega AUR: Issued Contract Notice to Proceed

NOISE CONTROL ZONE				- C1055 Wilshire/Fairfax AUR ductbank Segments complete - C1045 Design/Build: Began design Mobilization - C1045 Design/Build: Final design began					
EXPENDITURE STATUS (\$ In Millions)				SCHEDULE ASSESSM	ENT				
ACTIVITIES	CURRENT BUDGET	EXPENDED AMOUNT	PERCENT EXPENDED	MAJOR SCHEDULE ACTIVITIES	PRIOR PLAN	CURRENT PLAN	VARIANCE WEEKS		
DESIGN	\$157.7	\$62.5	39.6%	Environmental FEIS / FEIR	N/A	05/31/12	Complete		
RIGHT-OF-WAY	\$175.6	\$75.8	43.2%	Design					
CONSTRUCTION	\$1,737.4	\$25.1	1.4%	PE Notice to Proceed Final Design complete	N/A 03/22/17	01/12/11 03/22/17	Complete 0		
OTHER	\$1,078.7	\$74.3	6.9%	Right-of-Way					
TOTAL Current Budget includes En	\$3,149.4 vironmental/P	\$237.7 lanning and Fi	7.5% nance Costs.	All parcels available 12/31/15 12/31/15 0  Construction - Main Design / Build Contract					
AREAS OF CONCERN				Notice to Proceed	01/12/15	01/12/15	0		
				Construction complete	11/08/23	11/08/23	0		
ROW ACQUISITION	PLAN	ACQUIRED	REMAINING	CRITICAL ACTIVITIES / 3 MONTH LOOK AHEAD					
PERMANENT PARCELS TEMPORARY PARCELS	17	3	14	- C1055 Wilshire/Fairfa	x AUR: Cons x AUR: MS: enega AUR:	truction of wat #1 Water at La	er & power, MS #1 to complete		
TOTAL PARCELS	18	3	15						

### PROJECT OVERVIEW & STATUS

Section 1 of the Westside Purple Line Extension Project is the first of three sections to be designed and constructed as part of the Los Angeles County Metropolitan Transportation Authority (LACMTA) Measure R Program. The program was approved by Los Angeles County voters in November 2008 and provides a half-cent sales tax to finance new transportation projects. In April 2012, the three sections of the Project were environmentally cleared and adopted by LACMTA Board of Directors.

Section 1 will extend the existing Purple Line by 3.92 miles beginning at the Wilshire/Western Station. From this station, the twin tunnel alignment will travel westerly within the existing Wilshire Boulevard right-of-way. Stations will be located at the intersections of Wilshire/La Brea, Wilshire/Fairfax, and Wilshire/La Cienega. All three of the station boxes will be located within the Wilshire Boulevard right-of-way with station portals extending to off-street entrances. Two of the stations, Wilshire/La Brea and Wilshire/Fairfax are within the jurisdiction of the City of Los Angeles. The Wilshire/La Cienega Station is within the City of Beverly Hills jurisdiction.

#### Design

The design team continued to provide design support to the three Advanced Utility Relocation (AUR) contracts.

For the Wilshire/La Brea AUR Contract (C1048), the team continues to receive red line drawings from the contractor. The information from these drawings is being incorporated into the Tunnels, Stations, Trackwork, Systems and Systems Integration Testing Contract (C1045) composite utility drawings as record drawings to reflect the as-built conditions.

For the Wilshire/Fairfax AUR Contract (C1055), the team continues to support Metro in responding to Request for Information (RFI's) and submittals. The team continues to review potholing data from the contractor. *A fulltime field engineering representative continues to support nighttime construction activities.* 

For the Wilshire/La Cienega Station AUR Contract (C1056), the team is supporting Metro with traffic control requests for additional potholing being undertaken by the third party contractors. *The team is reviewing the potholing data received to date.* The team is also providing support in discussions with the City of Los Angeles Department of Transportation where the traffic control plans extends beyond the City of Beverly Hills jurisdiction at San Vicente Boulevard.

The team continues to provide support to Metro in the coordination with various third parties involved in the Division 20 Maintenance-of-Way (MOW) and the Non-Revenue Vehicle (NRV) Building 61S Contract (C1078). The team completed the geotechnical investigation and report for incorporation into Contract Amendment 3. The engineer's estimate will include all amendments and is being reviewed.

Attended bi-weekly task force meetings with Metro and the C1045 Contractor for Tunnels, Stations, Trackwork, Systems and Systems Integration Testing to resolve technical issues related to each design discipline and to summarize potential RFI's.

### **Major Contract Procurement**

The recommendation to award the C1045 contract was presented at the July 2014 Metro Board Meeting. The Board of Directors approved staff's recommendation to award to Skanska, Traylor and Shea, a joint venture (STS) and authorized the Chief Executive Officer (CEO) to award the 107 month firm fixed price contract, subject to the resolution of any timely protests. Two protests were received on July 22, 2014. Responses to the protests were issued on September 4, 2014. The two protesters issued appeals on September 16, 2014. The two appeals were denied on November 4, 2014 and the contract was awarded the same day. *The contract Notice to Proceed (NTP) was issued on January 12, 2015.* 

The Wilshire/La Cienega AUR Contract (C1056) was advertised for bid on February 28, 2014. Price bids were received on May 21, 2014. The Notice of Intent to Award was issued on September 26, 2014. Contract award was issued to Steve Bubalo Construction Company on October 13, 2014. *The contract NTP was issued on January 12, 2015.* 

The Division 20 Maintenance-of-Way (MOW) and the Non-Revenue Vehicle (NRV) Building 61S Contract (C1078) Invitation for Bid (IFB) was issued on September 19, 2014. Amendment 1 was issued on October 31, 2014, which extended the due date for bids from December 5, 2014 to January 16, 2015. A second amendment was issued on December 12, 2014, which extended the due date for bids from January 16, 2015 to February 6, 2015. The third and final amendment, which included the geotechnical report, was issued on January 16, 2015. The due date for bids remains at February 6, 2015.

# **PROJECT OVERVIEW & STATUS (Continued)**

#### Construction

The Wilshire/Fairfax Exploratory Shaft (C1034) is in the final closeout phase.

The Wilshire/La Brea AUR Contractor (C1048) achieved substantial completion on October 27, 2014. *Follow-on work by LADWP Power was completed in January 2015.* Work performed in the same area by AT&T *and Southern California Gas* is expected to be completed in March 2015. This will complete all AUR work at this location.

The Wilshire/Fairfax AUR (C1055) contractor is continuing with submittals and water and power relocations, and is on schedule to complete in October 2015.

Cable Engineering Services (CES) has completed fiber relocations at the Wilshire/Fairfax Station. Verizon Business is the last fiber optic company to complete work at this location. Completion is scheduled for March 2015.

The contractor for Tunnels, Stations, Trackwork, Systems, and Systems Integration Testing (C1045) has begun design mobilization and has started some final design activities. The contractor plans on mobilizing to the main field office in April 2015. Prior to that date, the contractor plans on beginning design survey and mapping, baseline noise monitoring, preconstruction surveys, utility potholing, and geotechnical borings.

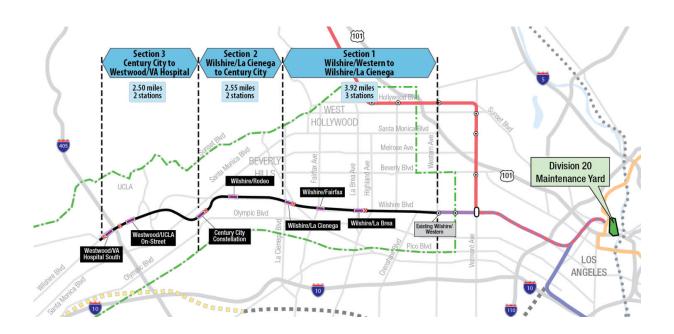
Metro staff is working with the City of Beverly Hills to obtain a Memorandum of Agreement (MOA) for Contract C1045.

Property abatement and remediation work is continuing prior to providing site access to the C1045 contractor.

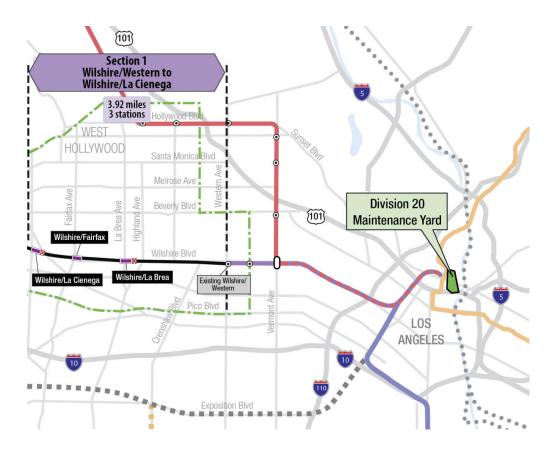
### MANAGEMENT ISSUES

No Management Issues this period.

# **PROJECT ALIGNMENT by SECTIONS**



# **PROJECT ALIGNMENT SECTION 1**



### **BASE PROJECT SCOPE**

Section 1 of the Westside Purple Line Extension Project is the first of three sections to be designed and constructed as part of the Los Angeles County Metropolitan Transportation Authority (LACMTA) Measure R Program. The program was approved by Los Angeles County voters in November 2008 and provides a half-cent sales tax to finance new transportation projects. In April 2012, the three sections of the Project were environmentally cleared and adopted by LACMTA Board of Directors.

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The Wilshire/La Brea Station box will be located under the center of Wilshire Boulevard in between Detroit Street and Orange Drive. A double crossover will be located east of the station box. The station entrance will be on the northwest corner of Wilshire Boulevard and La Brea Avenue.

The Wilshire/Fairfax Station box will be located under the center of Wilshire Boulevard west of Fairfax Avenue to west of Ogden Drive. The station entrance will be on the southeast corner of Wilshire Boulevard and Orange Grove Avenue.

The Wilshire/La Cienega Station box will be located under the center of Wilshire Boulevard immediately east of La Cienega Boulevard. A double crossover will be located east of the station box. The station entrance will be on the northeast corner of Wilshire Boulevard and La Cienega Boulevard. Since the station will be the terminus station for Section 1, tail tracks will be located west of the station box.

### Contract C1034 – Wilshire/Fairfax Exploratory Shaft

Metro is constructing an exploratory shaft to observe ground conditions prior to the award of Contract C1045. The location of the exploratory shaft is adjacent to the future Wilshire/Fairfax Station. The construction of the shaft includes furnishing and installing monitoring instruments, ventilation, and record and report instrumentation data during the excavation of the shaft. After construction of the shaft, the shaft will be maintained for an observation time period. Afterwards, the shaft will be dismantled and the site backfilled in a condition acceptable to the property owner.

### Contract C1048 - Wilshire/La Brea Advanced Utility Relocations

Relocate existing LADWP power, water utilities and a sewer line within the construction limits of the Wilshire/La Brea Station. The contractor is responsible for working in streets, procure materials, and coordinate with the utility owner. The contractor is to construct the new facilities

# **BASE PROJECT SCOPE (Continued)**

in accordance with utility plans and specifications, provide traffic control, restore streets, and support utility crews installing cabling and during cut-over of the existing utilities.

### <u>Contract C1055 – Wilshire/Fairfax Advanced Utility Relocations</u>

Relocate existing LADWP power and water utilities within the construction limits of the Wilshire/Fairfax Station. The contractor is responsible for working in streets, procure materials, and coordinate with the utility owner. The contractor is to construct the new facilities in accordance with utility plans and specifications, provide traffic control, restore streets, and support utility crews installing cabling and during cut-over of the existing utilities.

#### Contract C1056 - Wilshire/La Cienega Advanced Utility Relocations

Relocate existing City of Beverly Hills water, storm drain and sewer utilities within the construction limits of the Wilshire/La Cienega Station. The contractor is responsible for working in streets, procure materials, and coordinate with the utility owner. The contractor is to construct the new facilities in accordance with utility plans and specifications, provide traffic control, restore streets, and support utility crews during cut-over of the existing utilities.

# <u>Contract C1045 - Tunnels, Stations, Trackwork, Systems and Systems Integration</u> Testing

The procurement of this contract utilizes a two-step approach with the submittal of qualification statements through a Request for Qualification (RFQ) process, prequalification of qualified proposers followed by the release of a Request for Proposals (RFP) soliciting technical and price proposals with an option at Metro's discretion for Best and Final Offers (BAFO).

The Design/Build contract provides for final design and construction of the infrastructure along the 3.92 mile alignment. Contract scope includes demolition and removal of structures and clearing sites to facilitate construction operations. The structures to be constructed include twin bored tunnels, complete with cross-passages and walkways, including all mechanical, electrical and finish work. A retrieval shaft will be constructed to the west of the existing Wilshire/Western Station for extraction of the tunnel boring machines. Three underground stations are to be constructed, two with double-crossovers, and the terminus station to include tail tracks. Each station has a single entrance plaza with stairs, escalators and elevators which meet ADA requirements. The scope of work includes all architectural finishes, mechanical, electrical, systems and equipment including train control, traction power, communications, trackwork and the system tie-in to the existing Metro Purple Line, testing and commissioning.

# <u>Contract C1078 – Division 20 Maintenance-of-Way and Non-Revenue Vehicle Building 61S</u>

The Design/Build contract provides for final design and construction of a new Maintenance-Of-Way (MOW) stores and Non-Revenue Vehicle (NRV) building at the south end of the existing Division 20 Yard (Location 61S). The displacement of the existing MOW stores building and NRV facility are due to the proposed turn-back facility site in the yard.

# **BASE PROJECT SCOPE (Continued)**

### **Metro Furnished Equipment**

Metro will procure separate contacts to provide the 34 Heavy Rail Vehicles (HRV) and the Universal Fare System (UFS) necessary to operate the extension to the Purple Line. The scope of the HRV contract includes design, manufacturing, testing and delivery of the vehicles. The scope of the UFS contract includes design, fabrication and installation of equipment at the three stations and system testing.

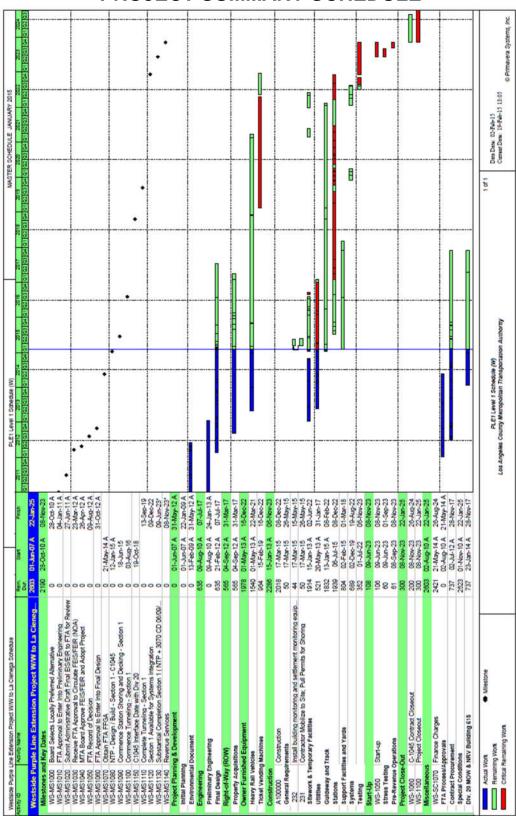
#### Start Up

The commencement of pre-revenue operations will be determined by Metro. Generally, all systems integration testing will have been completed and passed. All testing will be required to include and pass a "stress test" of maximum operational service levels to be acceptable. Pre-Revenue Operations include train runs, especially those involving multiple trains, on the integrated and fully operational extension; rehearsal of expected revenue operations scenarios; as well as abnormal and emergency scenarios in which random combinations of system interactions are tested; equipment "burned-in"; and training of Metro personnel who will eventually operate and maintain the extension and for emergency services personnel. Activities occurring during Pre-Revenue Operations are carried out by a designated Metro Project Rail Activation Group.

# **KEY MILESTONES SIX- MONTH LOOK AHEAD**

	Milestone				l	l	l		
	Date	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15		
C1055 MS#1 Water @ La Brea Complete	02/05/15								
C1078 Division 21 MOW & NRV Building 61S Receive Bids	02/06/15								
C1045 Design Survey & Mapping	02/25/15								
C1048 La Brea AUR Contract Closeout Complete	02/27/15	<b>•</b>							
C1045 TBM Procurement - Issue Purchase Order	03/02/15								
C1045 Begin Geotech Investigations	03/16/15								
C1056 Begin Advanced Utility Relocations	03/23/15								
C1045 Begin Pothole Investigations at La Brea	04/10/15								
C1045 LADWP Power Drop at La Brea	04/15/15								
C1045 Utility Work Begins La Brea	06/01/15								
C1078 Contract Award	06/15/15					•			
C1055 MS#2 - Power Work for LADWP Complete	07/25/15								
C1055 MS#2 - Power Work for LADWP Complete  O7/25/15  MTA Staff  MTA Board Action  FTA (Federal Transit Administration)  Contractors  ○ PB									

# PROJECT SUMMARY SCHEDULE



January 2015

# **SCHEDULE MEASUREMENTS**

# **OVERALL CONSTRUCTION PROGRESS CURVE**

January 2015

# **MAJOR EQUIPMENT DELIVERY**

January 2015

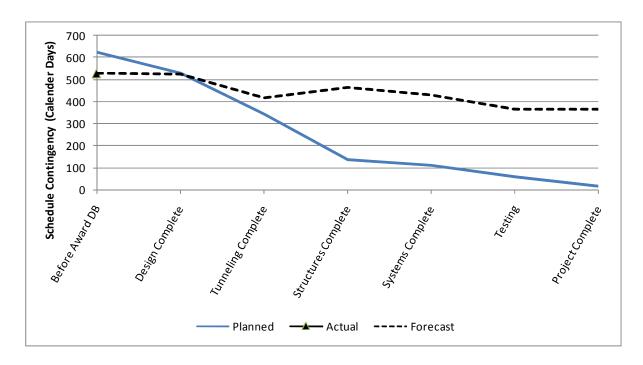
# **DESIGN BUILDER'S (C1045) LONG LEAD ITEM LIST**

# **CRITICAL PATH NARRATIVE**

#### **Critical Path:**

The critical path for the Westside Purple Line Extension Project begins with the procurement process for the C1045 Design / Build contract, mobilization of the design team for the selected contractor, and the start of final design for station boxes and tunnels. Final design is concurrent with the La Brea advanced utilities that are being relocated under the C1048 contract and by third parties. Upon completion of utility relocations, the contractor begins installation of soldier piles, first on the north side of the La Brea station box, and then on the south side. Street decking is then installed, the station structural box is excavated, and invert concrete is placed. Tunneling then begins, first driving eastbound from Wilshire / La Brea to Wilshire / Western. TBMs are removed though a retrieval shaft at Wilshire / Western, reassembled at Wilshire / La Brea, and then driven westbound to Wilshire / La Cienega. Following construction of cross passages, the critical path continues through construction of the Wilshire / Fairfax station box, installation of trackwork and traction power, systems integration and testing, and pre-revenue operations.

# PROJECT SCHEDULE CONTINGENCY DRAWDOWN



# PROJECT SCHEDULE CONTINGENCY DRAWDOWN ANALYSIS

The project schedule contingency drawdown curve is based on a November 8, 2023 Revenue Service Date (RSD).

### **PROJECT COST STATUS**

SCC CODE	DESCRIPTION	ORIGINAL BUDGET	CURRENT BUDGET		COMMITMENTS		EXPENDITURES		CURRENT FORECAST		BUDGET / FORECAS
OODL		DODGET	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	VARIANCE
10	GUIDEWAY & TRACK ELEMENTS	388,294	-	388,294		380,680	-	-		388,294	
20	STATIONS, STOPS, TERMINALS, INTERMODAL	440,621	-	440,621		431,981		-		440,621	
30	SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	43,323	-	43,323				-		43,323	
40	SITEWORK & SPECIAL CONDITIONS	751,566	-	751,566	100	728,426	1,561	25,073		754,326	2,76
50	SYSTEMS	113,574	-	113,574		97,466		-		113,574	
	CONSTRUCTION SUBTOTAL (10-50)	1,737,378		1,737,378	100	1,638,553	1,561	25,073		1,740,138	2,7
60	ROW, LAND, EXISTING IMPROVEMENTS	175,634	-	175,634		175,634	13,947	75,843		175,634	
70	VEHICLES	160,196	-	160,196	-	-	-	-	-	160,196	
80	PROFESSIONAL SERVICES	412,710	-	412,710	1,347	200,574	3,003	97,555	-	412,710	
	SUBTOTAL (10-80)	2,485,918	-	2,485,918	1,446	2,014,762	18,511	198,471		2,488,678	2,70
90	UNALLOCATED CONTINGENCY	248,592	-	248,592	-	-	-	-	-	245,832	(2,76
100	FINANCE CHARGES	375,470	-	375,470	-	-	-	-	-	375,470	
TOTAL PROJECTS 465518 & 865518 (10-100)		3,109,980	-	3,109,980	1,446	2,014,762	18,511	198,471	-	3,109,980	
	ENVIRONMENTAL/PLANNING - 405518	8,505	-	8,505	-	8,505	-	8,505	-	8,505	
	ENVIRONMENTAL/PLANNING - 465518	30,865	-	30,865	-	30,865	4	30,711	-	30,865	
	TOTAL PROJECTS 405518 & 465518 (ENV / PLAN'G)	39,370	-	39,370	-	39,370	4	39,216	-	39,370	
	TOTAL PROJECTS 405518, 465518 & 865518	3,149,350		3,149,350	1,446	2,054,131	18,515	237,687		3,149,350	

### PROJECT COST ANALYSIS

#### **Original Budget and Current Budget**

The Original Budget and Current Budget of \$3.1 billion reflect the Board approved Life of Project Budget, July 24, 2014, plus Finance Charges of \$0.4 billion.

#### **Current Forecast**

The Current Forecast remained the same this period and within the Board approved budget of \$3.1 billion.

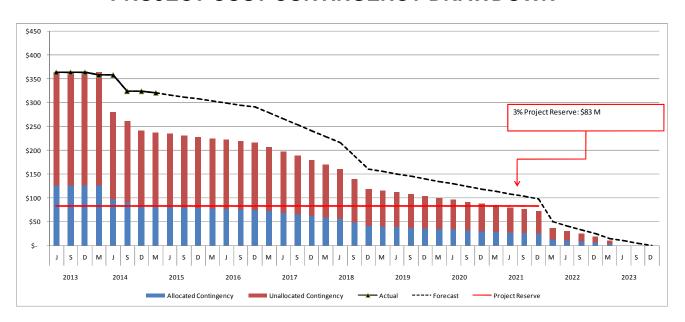
#### Commitments

The Commitments increased by \$1.4 million due to executed modifications associated with the Program Management Assistance, Engineering Management Services, Wilshire/La Brea AUR Contract C1048, Wilshire/Fairfax AUR Contract C1055. The \$2.1 billion in Commitments to date represents 65.2% of the Current Budget.

#### **Expenditures**

The expenditures are cumulative through *December 2014*. The expenditures increased by \$18.5 million this period primarily for costs associated Real Estate Acquisitions, Advanced Utility Relocations, *Engineering Management Services, Construction Management Support Services, Project and Program Management Assistance*, and Metro Project Administration. The \$237.7 million in Expenditures to date represents 7.5% of the Current Budget.

### PROJECT COST CONTINGENCY DRAWDOWN



### PROJECT COST CONTINGENCY DRAWDOWN ANALYSIS

The current budget of \$2.8 billion, excluding finance charges, for the Project includes an unallocated contingency amount of \$248.6 million. Also included within the current budget is an allocated contingency of \$72.0 million which is allocated, where applicable, to specific contracts within each Standard Cost Category (SCC) item. The allocated contingency is an amount to cover anticipated but unknown contract modifications issued by Metro. The total project cost contingency is \$320.6 million or 11.5% of total project cost.

Included in the project cost contingency drawdown is a 3% project reserve threshold. Metro's Board is to be notified when it becomes necessary to drawdown contingency below the project reserve threshold to cover project costs. This was adopted by the Metro Board of Directors in September 2012.

The project cost contingency drawdown curve is based on a November 8, 2023 Revenue Service Date.

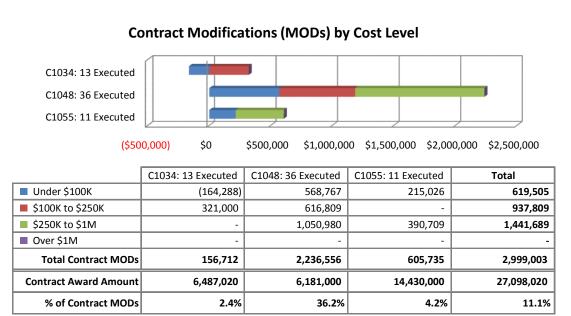
January 2015

# **DISADVANTAGED BUSINESS ENTERPRISE (DBE)**

January 2015

# PROJECT LABOR AGREEMENTS (PLA) STATUS

# **SUMMARY OF CONTRACT MODIFICATIONS**



Percent of Contract MODs equals the Total Contract MODs divided by the Contract Award Amount.

Thirteen Contract MODs with a total value of \$0.2 million have been executed since the award of Contract C1034 – Exploratory Shaft Construction by Innovative Construction Solutions (ICS).

*Thirty-six* Contract MODs with a total value of \$2.2 million have been executed since the award of Contract C1048 – Advanced Utility Relocations at Wilshire/La Brea by Metro Builders & Engineering Group, LTD.

*Eleven* Contract MODs with a total value of \$0.6 million have been executed since the award of Contract C1055 - Advanced Utility Relocations at Wilshire/Fairfax by W. A. Rasic Construction Company, Inc.

### FINANCIAL/GRANT STATUS

JANUARY 2015		STATU	S OF FUNDS	BY SOURC	E				
SOURCE	(A) ORIGINAL BUDGET	(B) TOTAL FUNDS	(C) TOTAL FUNDS	(D) COMMI	(D/B) TMENTS	(E) EXPEN	(E/B) IDITURES	(F) BILLED TO SOURC	
		ANTICIPATED	AVAILABLE	\$	%	\$	%	\$	%
FEDERAL - SECTION 5309 NEW STARTS	\$1,250.000	\$1,250.000	\$65.000	\$1,250.000	100%	\$65.000	5%	\$65.000	5%
FEDERAL CMAQ	\$12.171	\$12.171	\$0.000	\$0.000	0%	\$0.000	0%	\$0.000	0%
FEDERAL SECTION 5339 - ALTERNATIVES ANALYSIS	\$0.512	\$0.512	\$0.512	\$0.512	100%	\$0.512	100%	\$0.512	100%
MEASURE R - TIFIA LOAN	\$856.000	\$856.000	\$0.000	\$0.000	0%	\$0.000	0%	\$0.000	0%
MEASURE R 35%	\$869.178	\$869.178	\$255.104	\$717.403	83%	\$96.615	11%	\$70.333	8%
STATE STIP RIP	\$2.568	\$2.568	\$2.568	\$2.568	100%	\$2.568	100%	\$2.568	100%
STATE CAPITAL PROJECT LOANS - OTHERS *	\$83.648	\$83.648	\$64.931	\$83.648	100%	\$72.992	87%	\$50.898	61%
CITY OF LOS ANGELES	\$75.273	\$75.273	\$0.000	\$0.000	0%	\$0.000	0%	\$0.000	0%
TOTAL	\$3,149.350	\$3,149.350	\$388.115	\$2,054.131	65.2%	\$237.687	7.5%	\$189.311	6.0%

EXPENDITURES ARE CUMULATIVE THROUGH DECEMBER 2014
ORIGINAL BUDGET BASED ON JULY 2014 BOARD APPROVED LOP BUDGET

# STATUS OF FUNDS ANTICIPATED

**FEDERAL SECTION 5309 NEW STARTS:** FTA grant application of \$65 million was awarded on June 2, 2014. Funds are available for drawdown.

**FEDERAL SECTION 5309 ALTERNATIVE ANALYSIS:** FTA grant application of \$511.6 million was awarded on July 25, 2014. Funds are available for drawdown.

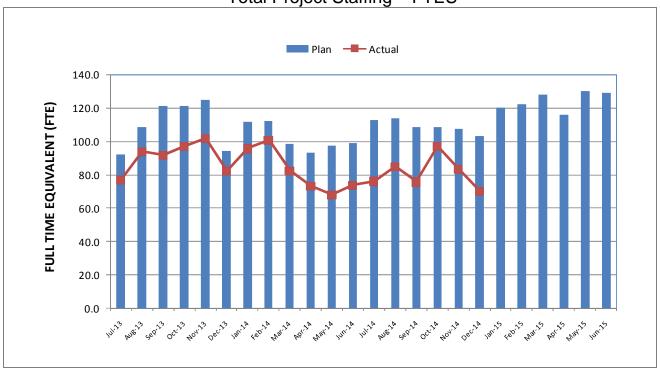
**MEASURE R – TIFIA LOAN (Transportation Infrastructure Finance & Innovation Act):** TIFIA Loan was executed on May 21, 2014 for \$856 million. First disbursement is planned for FY 2018.

**STATE STIP RIP:** State grant application of \$8.4 million, of which \$2.6 million has been allocated to this project, was awarded on July 26, 2007. Funds are available for drawdown.

<sup>\*</sup> OTHERS INCLUDE TDA ADMINISTRATION (\$4.1M), LTF GENERAL REVENUES (\$1.8M), AND LEASE REVENUES (\$37.8M)

**STAFFING STATUS** 

Total Project Staffing - FTES

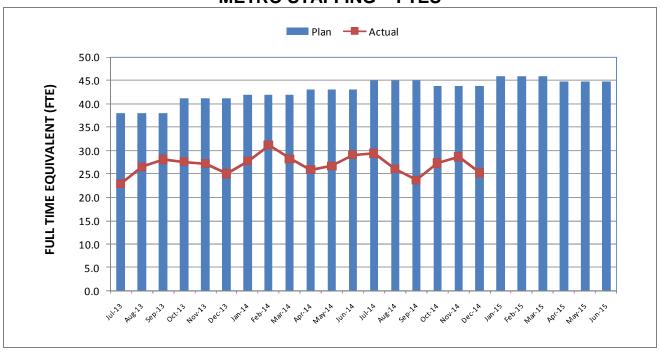


# **TOTAL PROJECT STAFFING**

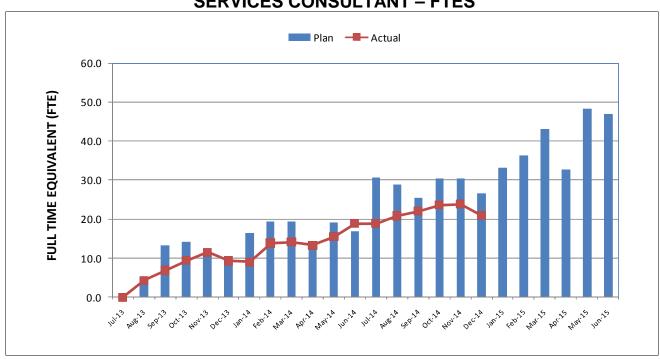
The overall FY15 Total Project Staffing plan averages 116.5 FTEs per month.

For *December* 2014, there were a total of *25.3* FTEs for MTA's Project Administration staff and *44.9* FTEs for consulting staff. The total project staffing for December 2014 was *70.2* FTEs.

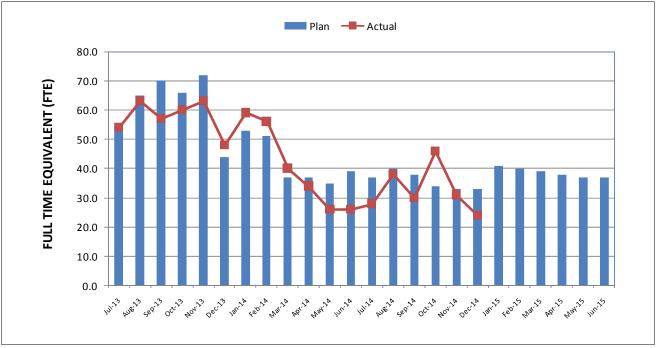
# STAFFING STATUS (Continued) METRO STAFFING – FTES



# CONSTRUCTION MANAGEMENT SERVICES CONSULTANT – FTES



# STAFFING STATUS (Continued) ENGINEERING MANAGEMENT SERVICES CONSULTANT – FTES



# **REAL ESTATE STATUS**

Description         of Parcels         Certified         Completed         Offers Made         Signed         Filed         Required         Complete           Full Takes         15         15         15         2         13         109         19           Part Takes         2         2         2         0         2         0         0		Number		Appraisals		Agreements	Condemnation	Reloc	ations	Parcels
	cription	of Parcels	Certified	Completed	Offers Made	Signed	Filed	Required	Completed	Available
Part Takes 2 2 2 2 0 2 0 0	akes	15	15	15	15	2	13	109	19	1
	akes	2	2	2	2	0	2	0	0	2
TCE		1	1	1	1	0	1	0	0	0

### **QUALITY ASSURANCE STATUS**

#### C1045 – Tunnels, Stations, Trackwork, Systems and Systems Integration Testing

- Attended weekly Project staff meetings and progress meetings with the Contractor.
- Ongoing discussions with the Project staff to plan for EMSC/CMSC coordination and oversight.
- Held initial Quality Meeting with the Contractor.
- Reviewed and provided comments for initial quality submittals (quality plan and construction quality procedures).

#### C1048 - Advanced Utility Relocations - Wilshire/La Brea

 NCR-01 Hot Mix Asphalt Gradation was issued and is in final review for acceptance by LABOE.

### C1055 – Advanced Utility Relocations – Wilshire/Fairfax

- Attended weekly progress meeting with the Contractor.
- Reviewed and provided comments on quality related submittals.
- Coordination with CMSS Inspector. Reviewed daily inspection reports from the Contractor/Field Technician.
- Conducted surveillance S-001 of the As-Built drawings development.

## C1056 - Advanced Utility Relocations - Wilshire/La Cienega

- Attended weekly progress meeting with the Contractor.
- Attended initial quality and safety meeting with the Contractor.
- Reviewed and provided comments on quality related submittals.

### **ENVIRONMENTAL STATUS**

- Ongoing Noise and Volatile Organic Compounds (VOC) monitoring in support of AUR Contracts and basic oversight on Storm Water Pollution Prevention Plan (SWPPP) requirements.
- Continued review of Wilshire/Fairfax submittals. Continued to finalize the Baseline Ambient Noise Report and adding 13 additional sensitive receptor locations.
   Working on supplemental ambient noise report for six locations including the Saban Theater. An additional seven locations are being proposed pending City of Beverly Hills approval of survey methods.
- Attended weekly progress meetings for Wilshire/Fairfax and Wilshire/La Brea AUR contracts.
- Waiting on approval from City of Beverly Hills on selection of Independent Compliance Monitor (ICM).
- Waiting on approval of Tree Removal Plans for Wilshire/Fairfax, Wilshire/La Brea and Wilshire/Western locations.
- Submitted Seventh Quarter Mitigation Monitoring and Reporting Plan (MMRP) to FTA on January 30, 2015.
- Continue to work on DTSC requirements regarding clearance of 590 S. Santa Fe (LOC 61S) Purple Line Extension Yard.
- Continued work on 675 Crenshaw Boulevard property demolition. Hazardous material abatement completed. City gas line requires disconnect prior to demolition.

### CONSTRUCTION RELATIONS STATUS

- Attended the following meetings: Construction Management, Advanced Utility Relocations, Construction Relations, Environmental Mitigations (MMRP), Traffic Mitigation with COLA/COBH, Contract C1045 Third party Workshop and bus relocation.
- Produced and distributed 11 construction work notices for advance utility relocations.
- Gave Project Presentations to the Elected Officials Briefing, Beverly Hills City Council, the President, Board of Public Works, Construction Community Meeting, Miracle Mile Chamber of Commerce, Fairfax Coordination Construction projects and Miracle Mile Residential Association.
- Visited and updated businesses and residences at future station locations to discuss utility relocations, business profiles and Eat, Shop, Play promotional campaign for businesses.
- Fielded and addressed nighttime noise and low impact back up alarms on subcontractor vehicles at La Brea and Fairfax, additional signage for Saban Theater box office and new loading zone, parking alternatives when the Detroit lot closes April 1, 2015, and increase noise blankets at night on north side of Wilshire at Fairfax based on community complaints.
- Updated Facebook/Twitter website as needed.

# **CREATIVE SERVICES STATUS**

- Continue to support mitigation efforts.
- Participated in Design Build Workshops and document reviews.

### **SAFETY & SECURITY STATUS**

- There were no recordable injuries on the Project during *January 2015*.
- Safety staff participated in scheduled readiness review meetings to ensure compliance with approved Work Plans and contract specifications.
- Construction activities (Advance Utility Relocations and Exploratory Shaft Punch List) continue to be monitored during both day and night work shifts to ensure contractor compliance with contract specifications.
- Safety staff attended weekly progress meetings and other project meetings to evaluate Contractors Safety Program compliance with contract requirements.
- Construction Safety staff continue to work with Program Management and Construction Relations staff to monitor issues related to public concerns regarding noise, traffic and transient encampment hazards as well as public interactions with the construction crews.
- Work Hour and Injury statistics are reported with a one month lag. *All Contracts are up to date on their reporting.*
- December 2014 Contractor Work Hours (Design & Construction): 2,804
- Contractor Project to Date Work Hours (Design & Construction through 12/31/2014): 92,526
- Total Project to Date Work Hours (Contractor & the IPO Staff through 12/31/2014): 187.034
- Project to Date Recordable Injury Rate: 0.0 (Zero Recordable Injuries). Each rate is per 200,000 work hours.
- Project to Date Total Time Away Injury Rate: 0.0 (Zero Time Away From Work Injuries).
- Project to Date Total Days Away Rate: 0.0 (Zero Days Away From Work).

# THIRD PARTY AGREEMENT STATUS

Third Party	Type of Agreement	Forecast Execution Date	Required Need Date	Status/ Comments
City of Los Angeles (LA)	Amendment to Master Cooperative Agreement	N/A	N/A	Parties will work under 2003 MCA.
City of Beverly Hills (BH)	MOAs (La Cienega only)	9/14 (AUR) 3/15 (D/B)	9/14 (AUR) 9/15 (D/B)	City of Beverly Hills approved the MOA for the C1056 Wilshire/La Cienega AUR contract on August 19, 2014. Metro continues to work with the City to establish an MOA for the C1045 Design/Build contract.
Los Angeles Department of Water and Power	Amendment to Memorandum of Understanding	N/A	N/A	Metro and LADWP will continue to work under the terms of the previous Cooperative Agreement.
Los Angeles County Public Works	Letter of Agreement	4/11	3/12	Executed
Caltrans	Amendment	8/11	3/12	Executed
Private Utilities	LOA, MOU, MCA, or MUA	9/14	N/A	Metro is working with affected third party utilities under existing agreements except for Qwest and Level 3. Metro has provided comments to Qwest on the revised agreement. Awaiting Level 3 response to accept and honor an existing agreement in lieu of a new MCA. Metro's proposed MOU is being reviewed by SCE. In absence of an agreement, work is being performed by work orders.

### ADVANCED UTILITY RELOCATION STATUS

- C1048 AUR for the Wilshire/La Brea Station was substantially completed on October 27, 2014. Punch list items and contract closeout are underway with an expected completion in February 2015.
- AT&T relocations at the Wilshire/La Brea Station are scheduled to be completed in March 2015. AT&T relocations at the Wilshire/Fairfax Station have begun.
- LADWP Power work at the Wilshire/La Brea Station site was completed in January 2015. Southern California Gas relocations in the same area are scheduled to be completed in March 2015.
- The C1055 AUR contractor for Wilshire/Fairfax Station continues with submittals and power and water relocations. *Milestone #1, Water at La Brea Complete, is planned to be completed on February 5, 2015.*
- CES is has completed fiber relocations at the Wilshire/Fairfax Station.
- The Notice of Intent to Award for the Wilshire/La Cienega AUR Contract (C1056) was issued on September 26, 2014. Contract award occurred on October 13, 2014 and the Notice to Proceed (NTP) was issued on January 12, 2015.

#### PEAK HOUR AND NIGHTTIME CONSTRUCTION VARIANCES

Metro is actively pursuing extended hour variances/exemptions to accommodate the Project needs. Metro staff is working with the City of Los Angeles Bureau of Engineering and the Los Angeles Police Commission to obtain Peak Hour Exemptions and Nighttime Construction Variances. Current efforts center around extending the existing nighttime noise variances to accommodate advanced utility relocations at the Wilshire/La Brea and Wilshire/Fairfax Station sites as well as obtaining new nighttime noise variances and peak hour exemptions to allow night work and weekend work to accommodate the Wilshire/La Brea, Wilshire/Fairfax and Wilshire/Western piling operations for the Design/Build contractor.

- The Peak Hour Exemption for Wilshire/La Brea pile installation was approved by the City of Los Angeles on November 8, 2013.
- The Peak Hour Exemptions for Wilshire/Fairfax and Wilshire/Western pile installations were approved by the City of Los Angeles on May 12, 2014.
- The Nighttime Noise Variance for the Wilshire/La Brea and Wilshire/Fairfax Advanced Utility Relocation work was extended to *August 2015 and April 2015, respectively* by the Los Angeles Police Commission.
- Metro is working with the City of Los Angeles on a Peak Hour Exemption for the area near the La Cienega Station. This will accommodate the spillover of traffic control devices from the City of Beverly Hills into the City of Los Angeles.
- An approved Nighttime Noise Variance for pile installations at the Wilshire/La Brea Station was obtained and is valid until April 30, 2015, at which time a six-month extension will be requested.

### **CHRONOLOGY OF EVENTS**

Alternatives Analysis study
approval of Alternatives Analysis study and next phase
Draft Environmental Impact Statement / Report (EIS / EIR)
approval of Draft EIS / EIR and selection of locally preferred tive
proval to enter Preliminary Engineering
Preliminary Engineering
certification of Final EIS / EIR and adoption of project
etion of Exploratory Shaft final design
ecord of Decision
Real Estate Acquisition
Final Design - C1048 - Advanced Utility Relocations contract – e/La Brea
Final Design - C1055 - Advanced Utility Relocations contract – e/Fairfax
RFQ for C1045 Design / Build contract
Final Design - C1056 - Advanced Utility Relocations contract – e/La Cienega
C1034 Exploratory Shaft construction
ed RFQ responses for C1045 Design / Build contract
RFP for C1045 Tunnels, Stations, Trackwork, Systems and is Integration Testing
ing of C1055 AUR Wilshire/Fairfax Bid Period
ted draft FFGA application

### **CHRONOLOGY OF EVENTS (Continued)**

July 2013	Completed Final Design - C1048 - Advanced Utility Relocations contract – Wilshire/La Brea
July 2013	Submitted TIFIA loan application
August 2013	Began C1048 Advanced Utility Relocations contract – Wilshire/La Brea
August 2013	NTP for Construction Management Services Contract
January 2014	Submitted application to FTA requesting an FFGA
January 2014	Received RFP Proposals for Contract C1045
February 2014	Beginning of C1056 AUR Wilshire/La Cienega Bid Period
May 2014	FTA awarded FFGA
May 2014	Received TIFIA Loan
June 2014	Began C1055 Advanced Utility Relocations at Wilshire/Fairfax
July 2014	Metro Board approved staff recommendation to award Contract C1045 and approved Life-of-Project Budget
September 2014	Issued Invitation to Bid for Contract C1078
October 2014	Issued C1056 Contract Award
November 2014	Issued C1045 Contract Award
January 2015	Issued C1045 Contract Notice to Proceed
January 2015	Issued C1056 Contract Notice to Proceed

### **CONTRACT C1034 STATUS**

Description: Exploratory Shaft Contractor: Innovative Construction Solutions (ICS)	Contract No. C1034 Status as of: January 30, 2015
Progress / Work Completed:	Major Activities (In Progress):
- Notice to Proceed: 01/15/13 - Demolition / site preparation: 04/05/13 - 06/17/13 - Site Utilities: 05/06/13 - 09/04/13 - Soldier Piles: 07/05/13 - 08/27/13 - Shaft excavation started: 09/03/13 - Shaft excavation to 15' depth: 10/18/13 - Shaft excavation to 20' depth: 11/01/13 - Shaft excavation to 32' depth: 11/30/13 - Shaft excavation to 44' depth: 12/27/13 - Shaft excavation to 58' depth: 01/31/14 - Shaft excavation to 66' depth: 02/28/14 - Shaft excavation to bottom of pit: 03/28/14 - Monitoring period began: 04/01/14 - Monitoring period completed: 09/22/14 - Backfill complete 10/22/14 - Substantial Completion 10/28/14 - Demobilized  Areas of Concern:  None	- Contract closeout  Major Activities Next Period:  - Complete contract closeout
Schedule Summary:	Original Contract Dates Time Extension Contract Contract Contract Contract Contract Contract CDs
Date of Award: 11/26/12  Notice to Proceed: 01/15/13	Notice to Proceed 01/15/13 0 01/15/13 01/15/13 0
Original Contract Duration: 669 CD Current Contract Duration: 669 CD	Milestone 1: 02/14/14 16 03/07/14 03/28/14 -21
Elapsed Time from NTP: 669 CD	Milestone 2: Substantial Completion 11/15/14 0 11/15/14 11/15/14 0
Physical Percent Complete:  Physical completion: 100%*  * Note: Physical completion assessment reflects	Cost Summary: \$ In millions  1. Award Value: 6.5  2. Executed Modifications: 0.2  3. Approved Change Orders: 0.0  4. Current Contract Value (1+2+3): 6.6
work completed and work in progress.	5. Incurred Cost: 6.6

## Westside Purple Line Extension Section 1 Project Monthly Project Status Report

### **CONTRACT C1045 STATUS**

Description: Westside Purple Line Extension Design-Build Contractor: SKANSKA - TRAYLOR - SHEA	Contract No. C1045 Status as of: January 30, 2015						
Progress / Work Completed:	Major Activities (In Progress):						
- Issued Contract Notice to Proceed January 12, 2015	- Design Mobilization - Final Design Commencement						
Areas of Concern: None	Major Activities Next Period:  - Material procurement - Traffic control & permits - Final Design & Planning						
Schedule Summary:		Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs	
Date of Award: 11/04/14  Notice to Proceed: (estimated) 01/12/15	Notice to Proceed (Estimated)	01/12/15	0	01/12/15	01/12/15	0	
Original Contract Duration: 3250 CD Current Contract Duration: 3250 CD	Milestone 1: Substantial Completion	06/09/23	0	06/09/23	06/09/23	0	
Elapsed Time from NTP: 18 CD	Milestone 2: Stations available to UFS	10/07/22	0	10/07/22	10/07/22	0	
	Milestone 3: Start of Integration Testing to ROC	01/10/23	0	01/10/23	01/10/23	0	
	Milestone 4: Demobilization	12/06/23	0	12/06/23	12/06/23	0	
	Milestone 5: Temporary Construction Easements	01/10/23	0	01/10/23	01/10/23	0	
Physical Percent Complete:	Cost Summary: \$ In mill		n millio	ns			
Physical completion: 0%*  * Note: Physical completion assessment reflects	2. Executed Modifications: 0.0 3. Approved Change Orders: 0.0 4. Current Contract Value (1+2+3): 1,636.4						
work completed and work in progress.	5. Incurred Cost: 39.3						

### **CONTRACT C1048 STATUS**

Contractor:	Wilshire/La Brea AUR Metro Builders & Engineers Group, Ltd.	Contract No. C1048 Status as of: January 30, 2015							
Progress / Work Completed:		Major Activities (In Progress):							
- Substantial Compl	- Contract closeout								
Areas of Cone	cern:	Major Activiti -Complete contract		Period	:				
Schedule Sur	nmary:		Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs		
Date of Award: Notice to Proceed:	05/13/13 08/01/13	Notice to Proceed	08/01/13	0	08/01/13	08/01/13	0		
Original Contract Do		Milestone 1: Completion of LADWP Power Work	12/28/13	0	12/28/13	05/22/14	-145		
Elapsed Time from	NTP: 452 CD	Milestone 2: Substantial Completion	03/18/14	223	10/27/14	10/27/14	0		
Physical Percent Complete:		Cost Summary: \$ In millions  1. Award Value: 6.2							
* Note: Physical completion assessment reflects work completed and work in progress.		<ol> <li>Executed Modifications:</li> <li>Approved Change Orders:</li> <li>Current Contract Value (1+2+3):</li> <li>Incurred Cost:</li> </ol>							

## Westside Purple Line Extension Section 1 Project Monthly Project Status Report

### **CONTRACT C1055 STATUS**

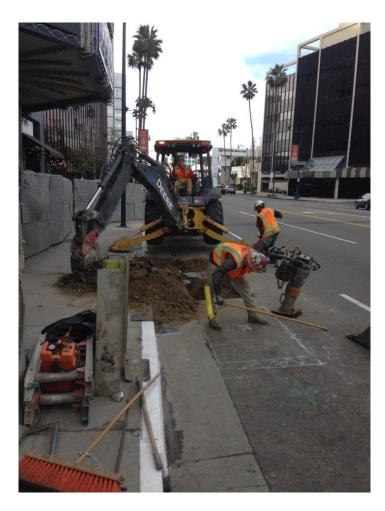
Description: Wilshire/F Contractor: W.A. RASI Company,	C Construction		Contract No. C1055 Status as of: January 30, 2015						
Progress / Work Completed:		Major Activities (In Progress):							
- La Brea waterline @Orange - La Brea waterline @Sycamore - Major material fabrication & delive - MH 703	<ul> <li>Power west on Wilshire</li> <li>Power on Fairfax</li> <li>Sound wall gate</li> <li>Ductbank at Wilshire/Fairfax intersection continues</li> </ul>								
Areas of Concern: None	Major Activiti  - Mobilize for water  - Sound wall gate of  - Vault lines 6050, 6  - Waterline at La Br	at Fairfax omplete 6040, 6012		l:					
Schedule Summary:			Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs		
Date of Award: Notice to Proceed:	03/28/14 05/01/14	Notice to Proceed	05/01/14	0	05/01/14	05/01/14	0		
Original Contract Duration: Current Contract Duration:	535 CD 535 CD	Milestone 1: Water @ La Brea	08/29/14	159	02/04/15	02/05/15	-1		
Elapsed Time from NTP:	275 CD	Milestone 2: Power @ Fairfax	07/25/15	0	07/25/15	07/25/15	0		
		Milestone 3: Substantial Completion	10/18/15	0	10/18/15	10/18/15	0		
Physical Percent Comp  Physical completion: 38%*  * Note: Physical completion asserwork completed and work in pro-	ssment reflects	<ol> <li>Award Value:</li> <li>Executed Modifi</li> <li>Approved Chan</li> </ol>	<ol> <li>Executed Modifications:</li> <li>Approved Change Orders:</li> <li>Current Contract Value (1+2+3):</li> </ol>			n millions  14.4  0.6  0.0  15.0  6.2			

### Westside Purple Line Extension Section 1 Project Monthly Project Status Report

### **CONTRACT C1056 STATUS**

Description: Wilshire/La Cienega AUR Contractor: Steve Bubalo Construction Co.	Contract No. C1056 Status as of: January 30, 2015							
Progress / Work Completed:	Major Activities (In Progress):			s):				
- Issued Contract Notice to Proceed January 12, 2014	- Mobilization - Submittals							
Areas of Concern: None	Major Activities Next Period:  - Material procurement  - Traffic control & permits							
Schedule Summary:		Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs		
Date of Award: 10/13/14 Notice to Proceed: (estimated) 01/12/15	Notice to Proceed (Estimated)	01/12/15	0	01/12/15	01/12/15	0		
Original Contract Duration: 696 CD Current Contract Duration: 696 CD	Milestone 1:	07/13/16	0	07/13/16	07/13/16	0		
Elapsed Time from NTP: 18 CD	Milestone 2: Substantial Completion	12/08/16	0	12/08/16	12/08/16	0		
Physical Percent Complete:  Physical completion: 0%*  * Note: Physical completion assessment reflects work completed and work in progress	Cost Summary:  1. Award Value: 2. Executed Modifications: 3. Approved Change Orders: 4. Current Contract Value (1+2+3):			<u> </u> \$1	\$ In millions  20.3  0.0  0.0  20.3			
work completed and work in progress.	5. Incurred Cost: 0.0							

### **CONSTRUCTION PHOTOGRAPHS**



Utility Potholing by VCI at Wilshire/La Cienega



C1055 Contractor Performing Utility Relocations along Wilshire Blvd.

# APPENDIX COST AND BUDGET TERMINOLOGY

#### **Project Cost Descriptions**

ORIGINAL BUDGET The Original Project Budget as authorized by the Metropolitan

Transportation Authority (Metro) Board (to be established).

CURRENT BUDGET The Original Budget plus all budget amendments approved by

formal Metro Board action. Also referred to as Approved

Budget.

COMMITMENTS The total of actual contracts awarded, executed change orders

or amendments, and approved work orders of Master

Cooperative Agreements, offers accepted for purchase of real estate, and other Metro actions which have been spent or result in the obligation of specific expenditures at a future time.

EXPENDITURES The total dollar amount of funds expended by Metro for

contractor or consultant services, third party services, staff salaries, real estate and other expenses that is reported in

Metro's Financial Information System (FIS).

CURRENT FORECAST The best estimate of the final cost of the Project when all

checks have been issued and the Project is closed out. Current Forecast is composed of actual costs incurred to date, the best estimate of work remaining and a current risk assessment for

each budgeted cost item.

#### **Cost Report by Element Descriptions**

CONSTRUCTION Includes construction contracts. Cost associated with

Guideways, Stations, Southwestern Yard, Sitework/Special.

Conditions and Systems.

RIGHT-OF-WAY Includes purchase cost of parcels, easements, right-of-entry

permits, escrow fees, contracted real estate appraisals and

tenant relocation.

VEHICLES Includes the purchase of Heavy Rail Vehicles and spare parts

for the Project.

PROFESSIONAL Includes design engineering, project management assistance,

SERVICES construction management support services, legal counsel,

agency staff costs, and other specialty consultants.

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.

PROJECT REVENUE Includes all revenue received by Metro as a direct result of

project activities. This includes cost sharing construction items,

insurance premium rebates, and the like.

## APPENDIX LIST OF ACRONYMS

ATC Automatic Train Control

ATSAC Automated Traffic Surveillance and Control

BAFO Best and Final Offer

BIM Building Information Modeling

BNSF Burlington Northern Santa Fe Railway Company

BRT Bus Rapid Transit

CADD Computer Aided Drafting and Design CALTRANS California Department of Transportation

CCTV Closed Circuit Television

CD Calendar Day

CEQA California Environmental Quality Act

CM Construction Manager

CMAQ Congestion Mitigation and Air Quality Improvement Program

CMSC Construction Management Services Consultant

CN Change Notice
CO Change Order
COBH City of Beverly Hills
COLA City of Los Angeles
CPM Critical Path Method

CPUC California Public Utilities Commission

CR Camera Ready

CSPP Construction Safety Phasing Plan
CTC California Transportation Commission

CUD Contract Unit Description

DB Design Build
DBB Design Bid Build

DOT Department of Transportation
DWP Department of Water and Power
EIR Environmental Impact Report
EIS Environmental Impact Statement

EMSC Engineering Management Services Consultant

EPBM Earth Pressure Balance Machine FAA Federal Aviation Administration FAR Federal Acquisition Regulation

FD Final Design

FEIS Final Environmental Impact Statement
FEIR Final Environmental Impact Report
Final Environmental Impact Report

FIS Financial Information System

FLSR Fire Life Safety Report
FONSI Finding of No Significant II

FONSI Finding of No Significant Impact FRA Federal Railroad Administration

FSEIR Final Supplemental Environmental Impact Report FSEIS Final Supplemental Environmental Impact Statement

# APPENDIX LIST OF ACRONYMS (Continued)

FTA Federal Transit Administration

FTE Full Time Equivalent

GBR Geotechnical Baseline Report

GDSR Geotechnical Design Summary Report

HMM Hatch Mott MacDonald
HRT Heavy Rail Transit
HRV Heavy Rail Vehicle
IFB Invitation for Bid

IPMO Integrated Project Management Office

JV Joint Venture LA Los Angeles

LABOE Los Angeles Bureau of Engineering
LABOS Los Angeles Bureau of Sanitation
LABSL Los Angeles Bureau of Street Lighting
LACFCD Los Angeles County Flood Control District

LACMTA Los Angeles County Metropolitan Transportation Authority

LADOT Los Angeles Department of Transportation
LADPW Los Angeles Department of Public Works
LADWP Los Angeles Department of Water and Power

LAUSD Los Angeles Unified School District

LAWA Los Angeles World Airports
LAX Los Angeles International Airport

LONP Limited Notice To Proceed LONP Letter Of No Prejudice

LOP Life-of-Project

LPA Locally Preferred Alternative
LRTP Long Range Transportation Plan

LRV Light Rail Vehicle

MCA Master Cooperative Agreement

MIS Major Investment Study

MMRP Mitigation Monitoring and Reporting Plan

MOU Memorandum of Understanding MPSR Monthly Project Status Report

N/A Not Applicable

NEPA National Environmental Protection Act

NOD Notice of Determination

NPDES National Pollution Discharge Elimination System

NTE Not to Exceed NTP Notice To Proceed

OCC Operations Control Center

OSHA Occupational Health and Safety Administration

PA/VMS Public Address/Visual Messaging Sign

PE Preliminary Engineering

#### **APPENDIX**

#### **LIST OF ACRONYMS (Continued)**

PEER Permit Engineering Evaluation Report

PIP Project Implementation Plan
PLA Project Labor Agreement

PM Project Manager

PMIP Project Management Implementation Plan PMOC Project Management Oversight Consultant

PMP Project Management Plan 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
QTIB Qualified Transit Improvement Bonds
RAMP Real Estate Acquisition Management Plan
RCHAR Rail Crossing Hazards Analysis Report
RCMP Risk Assessment Management Plan

RFC Request For Change RFP Request For Proposals

RFSC Request for Special Consideration

RHA Risk Hazard Analysis

RLPE Red Light Photo Enforcement

ROC Rail Operations Center ROD Record Of Decision

ROM Rough Order of Magnitude

ROW Right-Of-Way

RPZ Runway Protection Zone RSD Revenue Service Date SAV Stand Alone Validator

SCAQMD Southern California Air Quality Management District

SCADA Supervisory Control and Data Acquisition

SCC Standard Cost Category SCE Southern California Edison

SCG Southern California Gas Company

SCRRA Southern California Regional Rail Authority

SHA State Highway Account

SHPO State Historic Preservation Office

SIT System Integration Testing SOQ Statement of Qualification

SOV Schedule Of Value SOW Statement Of Work

# APPENDIX LIST OF ACRONYMS (Continued)

SP Special Provision

SSMP Safety and Security Management Plan

STB Surface Transportation Board

STIP State Transportation Improvement Program

STP Surface Transportation Program

STV STV Group

SWPPP Storm Water Pollution Prevention Plan

TBD To Be Determined
TBM Tunnel Boring Machine

TCE Temporary Construction Easement TCRP Traffic Congestion Relief Program

TIFIA Transportation Infrastructure Finance and Innovation Act
TIGER Transportation Investment Generating Economic Recovery

TPSS Traction Power Substation

TRACS Transit Automatic Control System
TVA Threat Vulnerability Analysis
TVM Ticket Vending Machine
UFS Universal Fare System

USDOT United States Department Of Transportation

VE Value Engineering

WBS Work Breakdown Structure

WP Work Package YOE Year of Expenditure