

Los Angeles County
Metropolitan Transportation Authority

Crenshaw/LAX Transit Project



Metro[®]

CRENSHAW/LAX TRANSIT PROJECT

QUARTERLY PROJECT STATUS REPORT

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DECEMBER 2013


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PROJECT SUMMARY

| LOCATION: Crenshaw Blvd south to LAX Airport DESIGN/CONSULTANT: Hatch Mott MacDonald | | | | CONSTRUCTION MANAGEMENT CONSULTANT: Stantec CONTRACTOR: Walsh-Shea Corridor Constructors (WSCC) | | | |
|--|------------------|-----------------|------------------|---|------------|--------------|----------------|
| PROJECT PHOTO: Geotechnical boring at depth of 25 feet. | | | | WORK COMPLETED PAST MONTH: | | | |
|  | | | | <ul style="list-style-type: none"> o WSCC continued refinement of project alignment and profile. o WSCC continued development of traffic management plan for underground stations. o WSCC re-submitted baseline schedule. o WSCC continued design efforts on ground structures and local streets on all segments. o Metro continued real estate acquisitions. o Metro Builders contractor continued street sewer relocations and started DWP waterline relocations. | | | |
| EXPENDITURE STATUS (\$ In Millions) | | | | SCHEDULE ASSESSMENT | | | |
| ACTIVITIES | CURRENT ESTIMATE | EXPENDED AMOUNT | PERCENT EXPENDED | MAJOR SCHEDULE ACTIVITIES | PRIOR PLAN | CURRENT PLAN | VARIANCE WEEKS |
| DESIGN | \$ 136.7 | \$ 42.1 | 30.8% | Environmental | | | |
| | | | | FEIS/FEIR | Sep-11 | Sep-11 | Complete |
| | | | | Record of Decision | Dec-11 | Dec-11 | Complete |
| RIGHT-OF-WAY | \$ 127.4 | \$ 109.2 | 85.7% | Design | | | |
| CONSTRUCTION | \$ 1,353.1 | \$ 90.1 | 6.7% | Preliminary Engineering | Nov-11 | Nov-11 | Complete |
| | | | | Final Design | Sep-15 | Sep-15 | On Schedule |
| OTHER | \$ 440.8 | \$ 60.6 | 13.7% | Right-of-Way | | | |
| TOTAL | \$ 2,058.0 | \$ 302.0 | 14.7% | All parcels available | Aug-14 | Oct-14 | 8 weeks |
| Note: cost as of December 27, 2013. | | | | Construction | | | |
| AREAS OF CONCERN <ul style="list-style-type: none"> o Right-of-way acquisition forecast dates are trending later than planned. o Timely future reviews of WSCC's designs by City of Los Angeles, City of Inglewood, Caltrans, FAA and Los Angeles World Airports. o CPUC suspension of 164-D process has delayed approval of crossing applications. | | | | D-B Notice to Proceed | Sep-13 | Sep-13 | Complete |
| | | | | D-B Substantial Complete | Sep-18 | Sep-18 | On schedule |
| | | | | Revenue Service Date | Oct-19 | Oct-19 | On schedule |
| ROW ACQUISITION | PLAN | ACQUIRED | REMAINING | CRITICAL ACTIVITIES / 3 MONTH LOOK AHEAD | | | |
| PERMANENT PARCELS | 34 | 19 | 15 | <ul style="list-style-type: none"> o WSCC continue design confirmation. o WSCC continue development of early work packages. o WSCC work on demolition plans for buildings. o WSCC prepare various permit applications. o WSCC commence geotechnical exploration. o Metro continue turning over properties to WSCC. o Metro Builders contractor continue street sewer relocations. o LADWP continue water line relocations at north end. | | | |
| TEMPORARY PARCELS | 40 | 0 | 40 | | | | |
| TOTAL PARCELS | 74 | 19 | 55 | | | | |

PROJECT OVERVIEW

Major Contract Procurement

The recommendation for award of Contract C0992 Concrete Ties went to the Metro Construction Committee in November and to the full Metro Board of Directors meeting on December 5, 2013. This contract was originally one but has been split into two with a new contract number, C0992A, assigned for the rebid of running rail and bumping posts scope of work.

Contract C0992A bids were received in November and the recommended award will be going to Metro Board of Directors in January 2014.

Solicitation of the last design-build contract to be issued for this project is Contract C0991 Southwestern Yard, which is planned to be advertised in 2015.

Construction

Contract C0990 - The advanced utility relocations Contractor, Metro Builders and Engineers Group, LTD (MBE) continues relocations along Crenshaw Blvd. The City of Los Angeles sewer relocations along 67th Street and Crenshaw is around **70%** complete and 60th Street and Crenshaw is around **90%** complete. The City of Los Angeles storm drain at Leimert Park Place is ***estimated to be complete by the end of January 2014.***

The LADWP (Water) scope of work for lowering and encase four water crossings on Crenshaw Blvd ***commenced in*** December 2013 and is ***estimated to be complete by end of*** April 2014.

The contractor is behind schedule and submitted a revised construction schedule on December 12, 2013. The projected substantial completion date is April 28, 2014. The projected completion date does not appear to impact the follow-on design-build contractor C0988. See the Contract C0990 Status sheet on page 39 for more information.

Contract C0988 – The design-builder, Walsh-Shea Corridor Constructors (WSCC) ***completed*** mobilization to the Integrated Project Management Office (IPMO) near Los Angeles International Airport. ***The design-builder continues final design with preparation of early required contract submittals. Facility design progress continues with utility relocations, station footprint definition, maintenance of traffic drawings and tunnel liner. Systems design progress continues with task force meetings addressing decisions needed on train control, traction power and communications. A main emphasis is on continuing design confirmation efforts for design criteria which is a key submittal planned for February 14, 2014. WSCC has resubmitted the Baseline Schedule on December 24, 2013 and this key submittal is under review by Metro. See Contract C0988 Status sheet on page 38 for more information.***

PROJECT OVERVIEW (Continued)

Right-of-Way

The Real Estate Acquisition and Management Plan (RAMP) and Relocation Plan were completed on October 24, 2012. Metro requested and FTA approved increasing the threshold value for property acquisitions from \$500,000 to \$1,500,000.

There are a total of 74 parcels; one more parcel was added in October 2013 which was originally an encroachment. There are 35 full takes, 27 partial takes and 12 temporary construction easements (TCE's).

Systems

Metro staff initiated a study to explore possible alternative layouts to accommodate the central control functions associated with new project needs, such as Crenshaw/LAX project, within the existing ROC facility as an interim measure. Metro has determined that the best interim course of action is to expand the existing functional operations at the ROC under a Phase 1 approach to support five new rail lines and extensions including the Crenshaw/LAX Project. The existing ROC will be expanded and will reconfigure the existing ROC service control and closed circuit television monitoring areas to increase overall space requirements by approximately 22 percent. A full build-out of a combined BOC/ROC is also being planned under a Phase 2 approach on land to be acquired by Metro as a separate Capital Improvement Project near Division 20. Preliminary engineering design has been completed and final design is scheduled to be completed by February 2014.

Program Management

In May 2013, the Board approved a Motion that amended the fiscal year 2014 Proposed Metro Budget to include funding for an underground station at Leimert Park Village and an at-grade station at Hindry as part of the baseline project. This Motion will add \$135 million to the LOP budget which included \$80 million in uncommitted fiscal year 2014 funding and \$55 million from City of Los Angeles. Metro needs to secure a legally binding agreement with the City of Los Angeles to cover the incremental cost of the stations above the \$80 million identified in fiscal year 2014 funding.

With board approval on June 27, 2013, the additional \$135 million is included in the sources of funds chart as well as the additional \$160.1 million for the increased cost of the base work. All recommendations were approved by the Board on June 27, 2013 except that change order authority was maintained at \$500,000. This board action amended the life of project budget to \$2,058 million.

The current budget includes the 49% cost allocation share that the Project is responsible for paying for the design and construction of the Southwestern Yard. This amount is \$139.4 million of the \$285.2 million forecast cost for the Southwestern Yard. The \$139.4 million is allocated in the various SCC categories.

PROJECT OVERVIEW (Continued)

The amount of funding available for the Crenshaw/LAX Transit Corridor Project, excluding the Southwestern Yard \$139.4 million allocation and Environmental/Planning budget of \$26.0 million is \$1,892.6 million.

The LOP budget is funded by various sources of funds which include local, state and federal funding. The TIFIA Loan is categorized under local funds as the loan is secured by a pledge of Measure R local sales tax funds. The federal percentages are as follows; local funding 79.9%, state funding 14.0% and federal funding 6.1%.

The project commitments thru December 2013 are \$1,609.3 million or 78.2% of the Current Budget. The project expenditures thru December 2013 are \$302.1 million or 14.7% of the Current Budget. The expenditures to date are for environmental/planning, preliminary engineering, third party utility relocation work, agency reviews/coordination, Contract C0990 advance utility relocations, Contract C0988 design-build mobilization and early design, right-of-way and professional services. Expenditures to date include the Southwestern Yard expenditures that are part of the 49% cost allocation share that the Project is responsible for paying for.

The project master schedule continues to reflect a forecast of October 2019 for Revenue Service which includes the additional two station options, Leimert Park Station and Hindry Station. This Baseline Revenue Service Date reflects the award of the design-build contract and ratification of a board motion to execute the bid options in the RFP conditioned upon amendment to the TIFIA loan agreement and execution of an agreement with the City of Los Angeles.

The project schedule contingency remains the same this period at 8.7 months.

A Risk Assessment Workshop was held on December 11th and 12th for the purpose of conducting a risk assessment of the project at a key stage of the project; after issuance of the notice to proceed to the design-builder. The results from the workshop will provide the basis for updating the project's Risk Register and Risk and Contingency Management Plan. This was the third of five planned risk assessment workshops.

MANAGEMENT ISSUES

Concern No. 1: Complete Construction Safety Phasing Plan (CSPP) for design-builder scope of work near LAX and receive FAA approval.

Status/Action A CSPP has been previously completed and submitted and approved by FAA for the Advanced Utility Relocation Contractor. Now a CSPP has to be submitted by the design-builder for their scope of work and get FAA approval before work can commence in the LAX area. ***The design-builder held an introductory meeting with FAA on November 19, 2013, to discuss access, height restrictions and site restrictions. A follow-up meeting with FAA is planned for late January 2014.***

Concern No. 2: Metro has submitted five applications to the California Public Utilities Commission (CPUC) for approval of grade crossing improvements. None have been approved.

Status/Action Metro completed and submitted all formal applications. There have been protests on two of the five applications (1 and 4). Metro continues to work with the CPUC on at least getting approval in February 2014 on the three applications (2, 3, and 5) that have had no protests.

One of the issues within Application No. 1 was resolved on October 31, 2013, when the CPUC adopted the consent agenda item that approved the Settlement Agreement between Metro and Faithful Central Bible Church and the Easement Agreement for the construction and governance of a pedestrian tunnel west of Eucalyptus Avenue.

The protest filed by the City of Inglewood regarding the Centinela and Eucalyptus Avenue at-grade crossing remains open. The presiding officer's decision is anticipated by end of January 2014.

The Crenshaw Subway Coalition Park-Mesa grade crossing issue remains open with a presiding officer's decision anticipated by the end of February 2014.

Concern No. 3: Execution of Local Match Agreements for 3 percent project funding is required with the City of Inglewood.

Status/Action The City of Inglewood has a draft Agreement. Metro is working with the appropriate counterparts to have this item completed.

Concern No. 4: Execution of Grant Agreement with City of Los Angeles for \$55.0 Million.

Status/Action The Agreement that will provide for the City of Los Angeles 3% contribution for the Crenshaw/LAX is in draft form and is being circulated with the City of Los

MANAGEMENT ISSUES

Angeles for signature. The current plan is to present as an item at the February 2014 Metro Board of Directors meeting for approval.

Concern No. 5: Right-of-way acquisition forecast dates are trending later than planned.

Status/Action Additional consultant staff has been added to support existing Metro staff in completing appraisals and support relocation efforts. ***Nineteen parcels have been turned over to the design-builder through December 2013.***

Concern No. 6: Variance to nighttime working hours.

Status/Action Variances to nighttime working hours on all five construction segments had been approved by the Los Angeles Police Commission. See page 26 for map of variance segments. Variances have to be renewed every six months.

The variance to nighttime working hours for Segments A, B, C and E have been renewed thru June 3, 2014. ***The variance for Segment D for the design-builder is suspended until WSCC prepares work plan for construction within this area and presents to Council District 8.*** Metro has been meeting with Council District 8 and has been successful in restoring variances from Council District 8 for the Advance Utility Relocations Contractor.

Concern No. 7: Timely future reviews of WSCC final design submittals by City of Los Angeles, City of Inglewood, Caltrans, FAA and Los Angeles World Airports.

Status/Action Metro is coordinating with all third party agencies in advance of the first submittals by WSCC to ensure that timely review requirements will be met to support WSCC's baseline schedule submittal dates. The final design submittals will be submitted for review by third parties according to the most critical submittals to ensure the third party agencies are reviewing the most important designs first.

Also, along with the concern above is the potential for third party agencies review comments leading to potential change requests outside of the original design signed off by the agencies during the preliminary engineering phase of the project. Metro will take action and strictly monitor the review comments from the agencies.

MANAGEMENT ISSUES (Continued)

Concern No. 8: Additional scope of work for the design-builder to accommodate the Los Angeles World Airports (LAWA) Specific Plan Amendment Study (SPAS).

Status/Action There is a potential for Metro to undertake a parallel design effort and construct changes in the vicinity of the Aviation/Century Station to accommodate elements of the SPAS. Crenshaw/LAX Project obtained Metro Board authorization to Proceed in December 2013 with the required future design or construction effort. ***Three changes were executed for only the parallel design effort required. Three construction changes are planned for execution with WSCC in February 2014.***

Concern No. 9: Special Permitting Process (SPP).

Status/Action Requires City of Los Angeles to approve SPP for Crenshaw/LAX Project which exempts project from certain restrictions. Application has been made to City of Los Angeles for approval ***which is anticipated in January 2014.***

Concern No. 10: Relocations of utilities by outside third parties required to be performed in advance of the main Crenshaw/LAX Design Build Contractor's work.

Status/Action Metro is working closely with various third party agencies to have this work performed in accordance to the required schedule.

PROJECT ALIGNMENT



BASE PROJECT SCOPE

The Crenshaw/LAX Transit Corridor is a north/south corridor that serves the cities of Los Angeles, Inglewood, Hawthorne and El Segundo as well as portions of unincorporated Los Angeles County. The alignment extends 8.5 miles, from the intersection of Crenshaw and Exposition Boulevards to a connection with the Metro Green Line at the Aviation/LAX Station. The project provides major connections with the Los Angeles International Airport (LAX) as well as links to the Metro Green Line, the Exposition Line and countywide bus network. The Board adopted a light rail system as the Locally Preferred Alternative (LPA) in December 2009.

The alignment is comprised of a double-tracked right-of-way consisting of sections of at-grade in-street, at-grade within railroad right-of-way, aerial, and below-grade guideway sections, eight stations, park and ride facilities at three locations, utilities, landscaping, roadway improvements required by the project and a maintenance & storage facility (Southwestern Yard).

The scope of work for the three construction contracts and two owner-supplied equipment contracts is shown below.

Contract C0990 Crenshaw/LAX Advanced Utility Relocations

The design of several early utility relocations was advanced sufficiently into final design to allow for bidding of critical early utility relocations. This contract will include relocating three (3) existing duct banks that feed various NAVAIDS on the south airfield complex. New ductbank infrastructure will be built by Metro with the fiber replacement work and cut-over by FAA/LAWA. These ductbanks contain fiber lines and power lines which belong to both LAWA and FAA. Since the new track alignment is below grade at these crossings, the ductbanks have to be relocated in advance to allow for the construction of the track alignment. In addition, other wet utilities along the Harbor Branch and Crenshaw Boulevard segments of the corridor that can be relocated in advance are included as part of this contract.

The project delivery method for this contract is bid-build Invitation for Bid (IFB) approach.

Design-Build Contract C0988 Crenshaw/LAX Transit Corridor

This is the largest project contract which will complete final design and construction of the infrastructure required along the corridor alignment. The structures required to be constructed are eight stations, grade separations including flyover structures, cut and cover trenching, tunneling and three park-n-ride facilities. The scope of work will include all the necessary systems work including train control, traction power supply substations and distribution, overhead catenary, communications, and systems tie-in to the existing Metro Green Line. Street improvements at the Slauson intersection have been added to the base work for which Metro will continue to seek partial reimbursement from the City of Los Angeles.

The project delivery method for this contract is design-build utilizing a two-step best value procurement approach with submittal of qualification statements through a RFQ process, pre-qualification of qualified proposers followed by release of a RFP soliciting technical and price proposals with an option at Metro's discretion for best and final offers (BAFO).

BASE PROJECT SCOPE (Continued)

Design-Build Contract C0991 Southwestern Yard

The Board-adopted 2009 Long Range Transportation Plan (LRTP) for Los Angeles County envisioned one new central Light Rail Transit (LRT) Maintenance facility to be used by all projects. Since the LRTP adoption, substantial progress on light rail system planning and development, including more accurate vehicle assignments, cost estimates, and functional requirements, has led Metro to conclude that two new LRT yards, an Eastern Yard and a Southwestern Yard, are necessary. This contract will construct the Southwestern Yard which will consolidate maintenance facility requirements for this project as well as the operating Metro Green Line, proposed South Bay Metro Green Line Extension and proposed Metro Green Line to LAX. The cost of constructing the Southwestern Yard will be proportionately split among the four projects.

The project delivery method for this contract is design-build Invitation for Bid (IFB) approach with a two-step evaluation process for technical qualifications and responsive low bid.

Owner-Supplied Equipment - Contract C0992 Crenshaw/LAX Procurement

Metro added a contract for procuring owner-supplied equipment for the Design-Build Contract C0988 Crenshaw/LAX Transit Corridor Contractor. The equipment within the contract scope of work includes concrete ties and assembly items.





The project delivery method for this contract is bid-build Invitation for Bid (IFB) approach.

Owner-Supplied Equipment - Contract C0992A Crenshaw/LAX Rail and Bumping Posts Procurement


Metro has added a new contract for rebidding the procurement of running rail and bumping posts for the Design-Build Contract C0988 Crenshaw/LAX Transit Corridor Contractor.

The project delivery method for this contract is bid-build Invitation for Bid (IFB) approach.


KEY MILESTONES SIX- MONTH LOOK AHEAD


| | Milestone Date | Dec-13 | Jan-14 | Feb-14 | Mar-14 | Apr-14 | May-14 |
|--|----------------|---|--|--------|--------|---|--------|
| Contract C0992 Rail & Tie Board Approval | 12/5/2013A |  | | | | | |
| Contract C0992 Rail & Tie NTP | 12/23/2013A |  | | | | | |
| Contract C0992A Rail Board Approval | 01/23/14 | |  | | | | |
| Contract C0990 - Substantial Completion | 04/28/14 | | | | |  | |
| | | | | | | | |

 MTA Staff


 MTA Board Action

FTA (Federal Transportation)

 Other Agencies

 Contractors

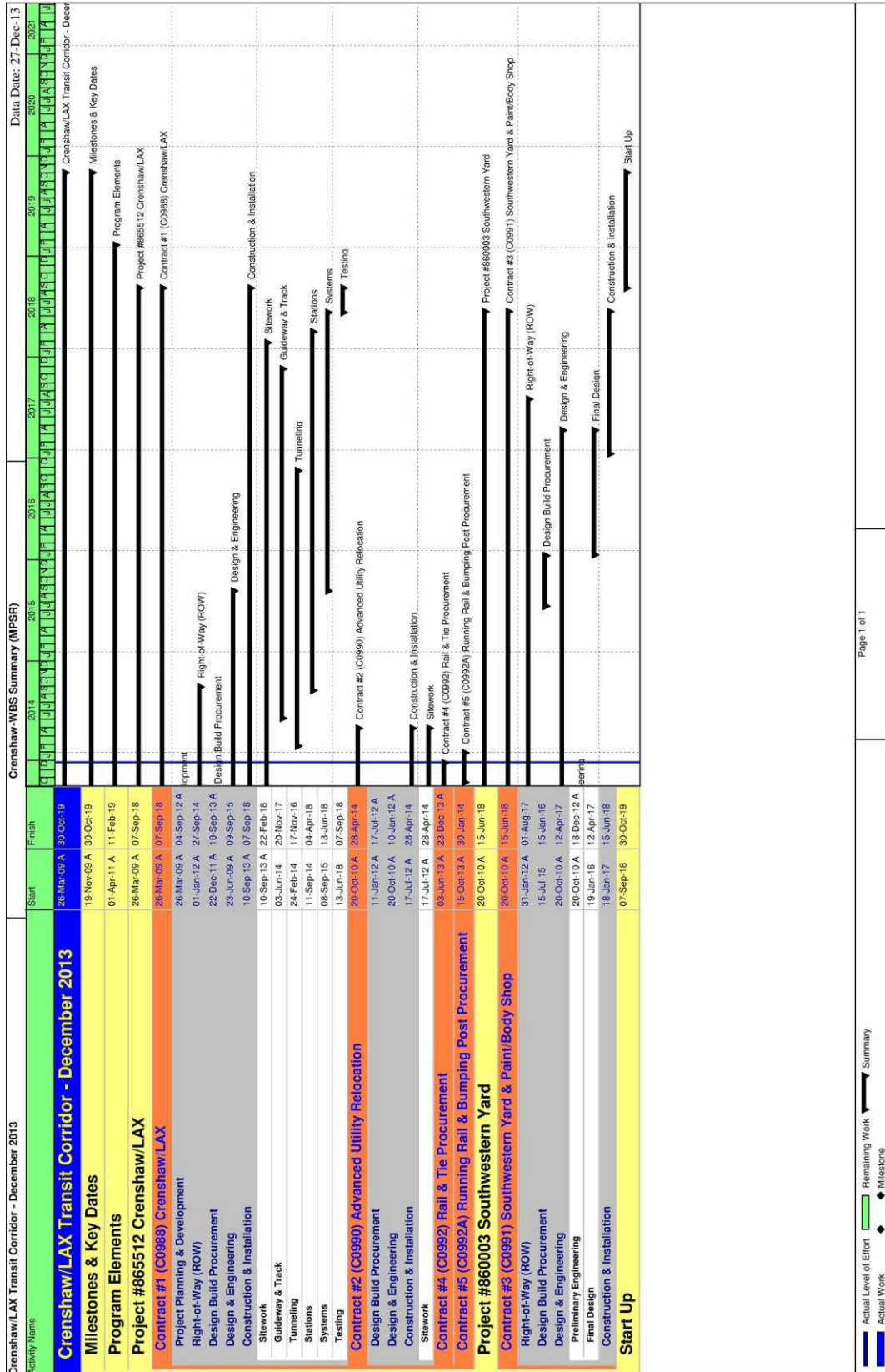
 HMM

 Walsh Shea Corridor Constructors

"A" following date is actual and completed

* New

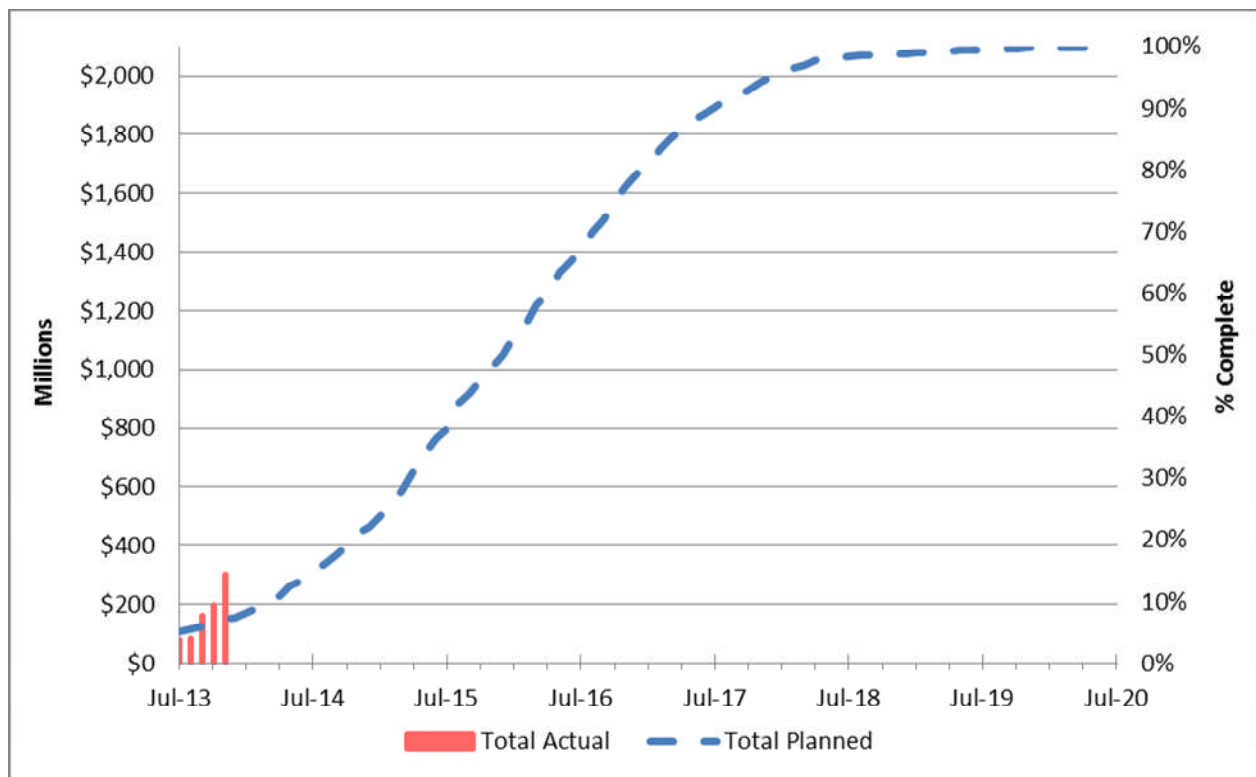
PROJECT SUMMARY SCHEDULE



SCHEDULE MEASUREMENTS

| | Status | Change from Last Period | Comment |
|---|-----------|-------------------------|----------------------|
| Current Revenue Service: | 10/1/2019 | None | |
| Forecast Revenue Service: | 10/1/2019 | None | |
| TIFIA Revenue Service: | 10/1/2019 | None | |
| Final Design Progress: | | | |
| Contract C0988 | 22% | 10% | NTP issued 9/10/2013 |
| Contract C0990 | 100% | None | Design Completed |
| Contract C0991 | - | - | P.E Completed only |
| Contract C0992 | 100% | None | Design Completed |
| Contract C0992A | 100% | None | Design Completed |
| Construction Contracts Progress: | | | |
| Contract C0988 | 0% | 0% | |
| Contract C0990 | 77% | 9% | |
| Contract C0991 | 0% | - | |
| Contract C0992 | 0% | - | NTP issued 12/23/13 |
| Contract C0992A | 0% | - | In Procurement Phase |
| Cumulative To Date Progress: | | | |
| | 12.2% | | |

OVERALL CONSTRUCTION PROGRESS CURVE STATUS



The above progress curve is based on planned and actual program expenditures and is still considered preliminary. Upon review and approval of the C0988 baseline schedule prepared by the design-build contractor, the curve will be revised to incorporate progress as projected by the design-build contractor.

The cumulative overall final design and construction progress is 12.2%.

Construction progress for C0990 is 77%. This contractor continues to be behind schedule. See Contract C0990 Status sheet, page 39, for more information.

Final Design for C0988 commenced upon MTA issuing NTP on September 10, 2013. Cumulative final design progress to date is 22%. There is no construction progress to date. See Contract C0988 Status sheet, page 38, for more information.

MAJOR EQUIPMENT DELIVERY STATUS

Tunnel Boring Machine

WSCC, the design-builder for Contract C0988, will procure the tunnel boring machine and equipment. A purchase order for the equipment has been released by the design-builder.

Light Rail Vehicles

The Board approved exercising Option 1 of Contract P3010 with Kinkisharyo International to provide light rail vehicles (LRV) for the Crenshaw/LAX project. By exercising this option prior to August 20, 2013, the Project avoided price escalation costs. The total number of vehicles in the option is 28 which includes 20 LRVs for the Crenshaw/LAX project and two additional cars for spares.

Ticket Vending Machines

Procurement of the ticket vending machines will commence after the design-builder completes final design and the total requirements for the project are known.

Running Rail and Concrete Ties

Procurement of the concrete ties contract was awarded and Notice to Proceed was issued in December 2013. Procurement of the running rail will go to the MTA Board of Directors for approval in January 2014.

CRITICAL PATH NARRATIVE

Critical Path:

The longest path to project substantial completion begins with final design of the Design/Build Contract #C0988 Crenshaw/LAX Transit Corridor.

The critical path moves through final design for the alignment and completing shop drawings to begin procurement of the tunnel boring machines (TBMs). The TBMs are a long lead item and as packages of final design are approved for construction, work will commence on the alignment construction activities prior to the TBMs arrival, assembly and testing.

The critical path then flows to remaining construction elements: tunneling, guideway construction, station construction, and systems installation. Critical work concludes with phase 1 systems integration testing by the C0988 contractor, phase 2 systems integration testing by MTA and then pre-revenue operations.

PROJECT COST STATUS

| Crenshaw/LAX Transit Corridor COST REPORT BY ELEMENT PERIOD ENDING: 27-DECEMBER-2013 UNITS IN DOLLARS | | | | | | | | | | | |
|--|-------------------------------------|-----------------|----------------|---------------|-------------|---------------|--------------|-------------|------------------|---------------|-------------------|
| SCC CODE | DESCRIPTION | ORIGINAL BUDGET | CURRENT BUDGET | | COMMITMENTS | | EXPENDITURES | | CURRENT FORECAST | | FORECAST VARIANCE |
| | | | PERIOD | TO DATE | PERIOD | TO DATE | PERIOD | TO DATE | PERIOD | TO DATE | |
| 10 | GUIDEWAYS | 471,335,000 | - | 452,500,001 | 1,982,843 | 437,482,844 | 3,600,000 | 8,800,000 | - | 452,500,001 | - |
| 20 | STATIONS | 153,906,000 | - | 316,050,000 | - | 300,550,000 | 256,891 | 926,351 | - | 316,050,000 | - |
| 30 | SOUTHWESTERN YARD | 66,673,000 | - | 66,673,000 | - | - | - | - | - | 66,673,000 | - |
| 40 | SITWORK/SPECIAL CONDITIONS (Note 5) | 235,576,000 | - | 348,565,999 | 48,784 | 326,936,496 | 25,042,645 | 80,419,318 | 8,655,000 | 357,220,999 | 8,655,000 |
| 50 | SYSTEMS | 125,132,000 | - | 169,311,000 | - | 149,821,000 | - | - | - | 169,311,000 | - |
| 10-50 | CONSTRUCTION | 1,052,622,000 | - | 1,353,100,000 | 2,031,627 | 1,214,790,340 | 28,899,536 | 90,145,669 | 8,655,000 | 1,361,755,000 | 8,655,000 |
| 60 | RIGHT-OF-WAY (Note 3) | 132,294,000 | - | 127,400,000 | 318,421 | 119,226,011 | 23,023,592 | 109,176,876 | - | 127,400,000 | - |
| 70 | LRT VEHICLES | 87,780,000 | - | 82,100,000 | - | 82,050,901 | - | 7,331,542 | - | 82,100,000 | - |
| 80 | PROFESSIONAL SERVICES (Note 4) | 273,147,000 | - | 295,900,000 | (221,059) | 167,248,603 | 4,704,744 | 69,863,217 | - | 295,900,000 | - |
| 90 | UNALLOCATED CONTINGENCY | 177,157,000 | - | 173,500,000 | - | - | - | - | (8,655,000) | 164,845,000 | (8,655,000) |
| 865512 & 860003 - SUBTOTAL | | 1,723,000,000 | - | 2,032,000,000 | 2,128,989 | 1,583,315,855 | 56,627,872 | 276,517,305 | - | 2,032,000,000 | - |
| ENVIRONMENTAL/PLANNING-405512 | | 5,526,150 | - | 5,526,150 | - | 5,524,858 | - | 5,524,858 | - | 5,524,858 | (1,292) |
| ENVIRONMENTAL/PLANNING-465512 | | 20,473,850 | - | 20,473,850 | - | 20,475,142 | - | 20,023,238 | - | 20,475,142 | 1,292 |
| 405512 & 465512 - SUBTOTAL | | 26,000,000 | - | 26,000,000 | - | 26,000,000 | - | 25,548,097 | - | 26,000,000 | - |
| 405512, 465512, 865512 & 860003 - TOTAL | | 1,749,000,000 | - | 2,058,000,000 | 2,128,989 | 1,609,315,855 | 56,627,872 | 302,065,402 | - | 2,058,000,000 | - |

Note-1: 405512, 465512, 865512 and 860003 are internal MTA project numbers to differentiate between environmental/planning and construction components of the project.
 Note-2: Project 865512 & 860003 expenditures are cumulative through 27-Dec-2013.
 Note-3: Includes \$58,990,963 commitments and \$80,573,800 expenditures for the Southwestern Yard project 860003 (49% of \$285.2 million forecast budget).
 Note-4: Includes \$2,243,307 commitments and \$500,678 expenditures for the Southwestern Yard project 860003 (49% of \$285.2 million forecast budget).
 Note-5: Includes \$150,000 commitments and \$0 expenditures for the Southwestern Yard project 860003 (49% of \$285.2 million forecast budget).

PROJECT COST ANALYSIS

Original Budget and Current Budget:

The Board in October 2011 established the Life-of-Project (LOP) budget of \$1,749 million for the Crenshaw/LAX Transit Corridor Project.

Current Budget:

There have been two increases in the LOP to date:

- The Board in December 2012 approved an increase of \$13.9 million for a new LOP total of \$1,762.9 million. The Unallocated Contingency Standard Cost Category (SCC) 90 budget line item was increased by the \$13.9 million for a new total of \$191.1 million.
- The Board in June 2013 approved an increase of \$295.1 million for a new LOP total of \$2,058.0 million. The total increase was based on two actions:
 - Increase LOP base project scope in the amount of \$160.1 million, and
 - Increase LOP to include the options for Crenshaw/Vernon Station (Leimert Park Village) and Florence/Hindry Station in the amount of \$135.0 million.

The current budget above continues to include the 49% cost allocation share that the project is responsible for paying which includes funding of the design and construction for the Southwestern Yard. This amount is \$139.4 million of the \$285.2 million forecast cost for the Southwestern Yard.

PROJECT COST ANALYSIS (Continued)

The \$139.4 million is spread among the appropriate SCC categories in the Project Cost Status table on previous page. The categories include SCC 30, 60, 80 and 90.

The amount of funding available for the Crenshaw/LAX Transit Corridor Project, excluding the Southwestern Yard \$139.4 million allocation and Environmental/Planning budget of \$26.0 million, is \$1,892.6 million.

Current Forecast:

The total project forecast is \$2,058 million. There is no variance with the Current Budget.

Commitments:

The commitments are cumulative through December 27, 2013. The total commitments increased by \$2.1 million this period primarily due to the following:

- SCC-10 (Guideways and Track) has increased by \$2.0 million due to executed Contract C0992 with ROCLA CONCRETE TIE INC for the procurement of concrete ties and assembly items.
- SCC-60 (Right-of-Way) has increased by \$0.3 million for real estate appraisal, environmental, and relocation.
- SCC-80 (Professional Services) has decreased by \$0.2 million for accounting adjustments.

The \$1,609.3 million in commitments to date represents 78.2% of the current budget.

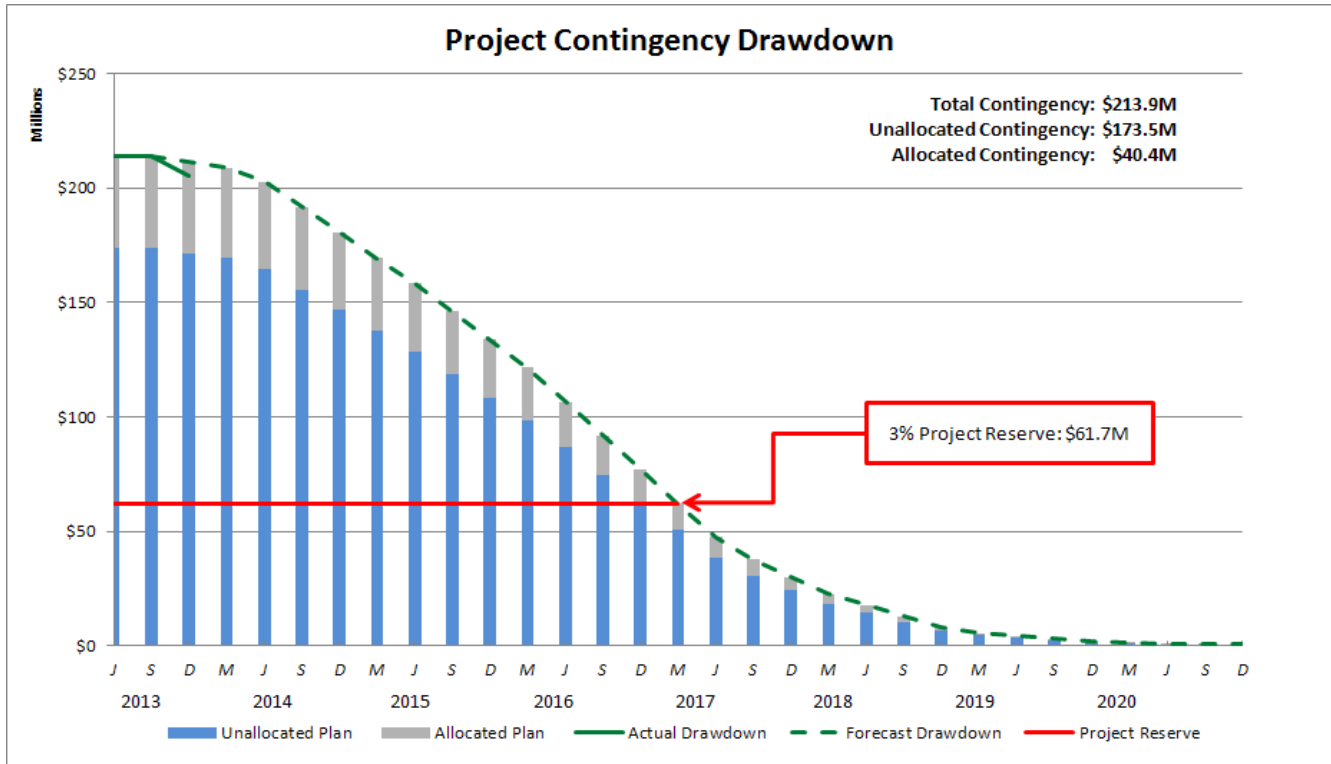
Expenditures:

The expenditures are cumulative through December 27, 2013. The total expenditures increased by \$56.6 million this period due to the following:

- SCC-10 (Guideways and Track) has increased by \$3.6 million for cost associated with Contract C0988 Crenshaw/LAX Transit Corridor.
- SCC-20 (Stations, Stops, Terminals, Intermodal) has increased by \$0.3 million for cost associated with Contract C0988 Crenshaw/LAX Transit Corridor.
- SCC-40 (Sitework and Special Conditions) has increased by \$25.0 million for costs associated with Contract C0988 Crenshaw/LAX Transit Corridor, Advance Utility Relocation contract C0990 with Metro Builders and Engineers LTD, and third party scope of work with Los Angeles Department of Water and Power and Cable Engineering Services.
- SCC-60 (Right-of-Way) has increased by \$23.0 million for costs associated with real estate appraisal, acquisition, environmental, and relocation.
- SCC-80 (Professional Services) has increased by \$4.7 million for costs associated with Contract C0988 Crenshaw/LAX Transit Corridor, Engineering and Design Contract E0117, Metro project administration, IPMO field office lease and utilities, construction management support services, legal services, printing services, community relations and environmental consultant services.

The \$302.1 million in expenditures to date represents 14.7% of the Current Budget.

PROJECT CONTINGENCY DRAWDOWN



PROJECT CONTINGENCY DRAWDOWN ANALYSIS

The project current budget of \$2,058,000,000 includes an “unallocated contingency” amount of \$173,500,000 which is included as a separate Standard Cost Category (SCC) element. Also included within the current budget is an “allocated contingency” of \$40,366,792 which is allocated, where applicable, to specific contracts within each SCC element. The allocated contingency is not broken out separately in the current budget, as this amount covers anticipated but unknown contract modifications issued by Metro. The total project cost contingency is \$213,866,792 or 10.4%.

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

The project contingency drawdown curve is based on an October 2019 revenue service date.

Current Period Contingency Drawdown Status:

There was \$8,655,000 drawdown of Unallocated Contingency this period for additional costs associated with Department of Water and Power’s multiple power relocations at Crenshaw/Exposition Station and Manchester elevated crossing work.

Cumulative Contingency Status:

The cumulative contingency has been reduced from \$213,866,792 to \$205,211,792.

DISADVANTAGED BUSINESS ENTERPRISE (DBE) STATUS

Contract C0988 Crenshaw/LAX Transit Corridor Design-Build

- DBE Goal – Design 20.40%
- Current DBE Commitment \$18,510,369 (20.37%)
- Current DBE Participation \$ 206,997 (1.27%)
- Ten design subcontractors have been identified to-date

- DBE Goal – Construction 20%
- Current DBE Commitment \$8,905,805 (0.90%)
- Current DBE Participation \$ 276,157(0.62%)

PROJECT LABOR AGREEMENTS (PLA) STATUS

Contract C0988 Crenshaw/LAX Transit Corridor Design-Build

(Reporting Data as of December 31, 2013)

- Targeted Worker Goal – 40.00%
- Targeted Worker Current Participation - 59.84%

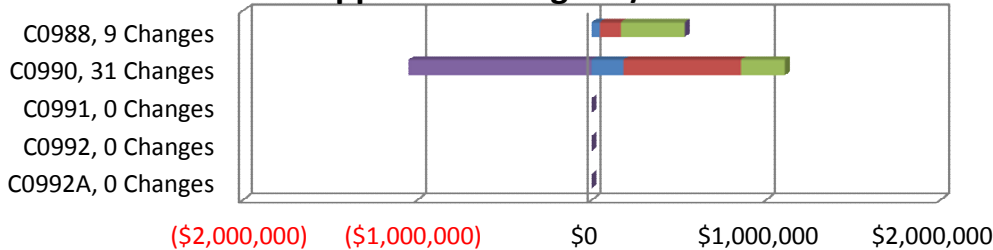
- Apprentice Worker Goal - 20.00%
- Apprentice Worker Current Participation - 15.86%

- Disadvantaged Worker Goal - 10.00%
- Disadvantaged Worker Current Participation 30.97%

SUMMARY OF CHANGES

Summary of Changes

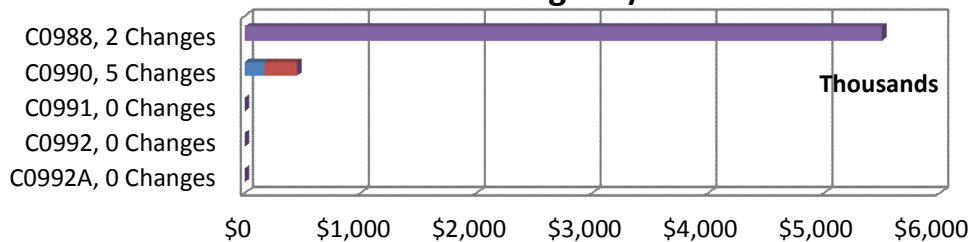
Approved Changes by Cost Level



| | C0992A, 0 Changes | C0992, 0 Changes | C0991, 0 Changes | C0990, 31 Changes | C0988, 9 Changes |
|--------------------|-------------------|------------------|------------------|-------------------|------------------|
| ■ Under \$100K | 0 | 0 | 0 | 183,751 | 47,820 |
| ■ \$100K to \$250K | 0 | 0 | 0 | 673,238 | 120,458 |
| ■ \$250K to \$1M | 0 | 0 | 0 | 251,864 | 366,400 |
| ■ Over \$1M | 0 | 0 | 0 | (1,050,000) | 0 |

Nine changes have been executed since execution of Contract C0988. The project team has identified and is evaluating an additional two potential changes to the contract valued at \$5.5 million.

Potential Changes by Cost Level



| | C0992A, 0 Changes | C0992, 0 Changes | C0991, 0 Changes | C0990, 5 Changes | C0988, 2 Changes |
|--------------------|-------------------|------------------|------------------|------------------|------------------|
| ■ Under \$100K | 0 | 0 | 0 | 169,281 | 0 |
| ■ \$100K to \$250K | 0 | 0 | 0 | 282,879 | 0 |
| ■ \$250K to \$1M | 0 | 0 | 0 | 0 | 0 |
| ■ Over \$1M | 0 | 0 | 0 | 0 | 5,500,000 |

Thirty-one changes have been executed since execution of Contract C0990. The project team has identified and is evaluating an additional five potential changes valued at \$0.5 million.

FINANCIAL/GRANT STATUS

\$ in millions

| SOURCE | (A) | (B) | (C) | (D) | (D/B) | (E) | (E/B) | (F) | (F/B) |
|-----------------------------------|--------------------|-------------------------------|-----------------------------|-------------------|--------------|--------------------|--------------|--------------------------------------|--------------|
| | ORIGINAL BUDGET | TOTAL FUNDS ANTICIPATED | TOTAL FUNDS AVAILABLE | COMMITMENTS \$ | % | EXPENDITURES \$ | % | BILLED to FUNDING SOURCE \$ | % |
| FEDERAL - OMAQ | 68.2 | 54.0 | 0.0 | 54.0 | 100% | 0.0 | 0% | 0.0 | 0% |
| FEDERAL - SECTION 5309 BUS CAPT | 8.6 | 8.6 | 8.6 | 8.6 | 100% | 7.3 | 85% | 7.3 | 85% |
| FEDERAL - REGIONAL STP | 20.0 | 48.2 | 0.0 | 48.2 | 100% | 0.0 | 0% | 0.0 | 0% |
| FEDERAL - ALTERNATIVE ANALYSIS | 1.2 | 1.2 | 1.2 | 1.2 | 100% | 1.2 | 100% | 1.2 | 100% |
| FEDERAL - TIGER II | 0.0 | 13.9 | 13.9 | 13.9 | 100% | 13.9 | 100% | 13.9 | 100% |
| FEDERAL REGIONAL IMPROV PROG | 34.3 | 34.4 | 0.0 | 15.4 | 45% | 0.0 | 0% | 0.0 | 0% |
| STATE REGIONAL IMPROVEMENT PROG | 2.2 | 2.2 | 2.2 | 2.2 | 100% | 2.2 | 100% | 2.2 | 100% |
| STATE PFM | 0.178 | 0.178 | 0.178 | 0.178 | 100% | 0.178 | 100% | 0.178 | 100% |
| STATE PROP 1B PTMSEA | 201.2 | 201.2 | 23.4 | 201.2 | 100% | 23.4 | 12% | 23.4 | 12% |
| STATE PROP 1 B LOCAL PARTNER PROG | 0.0 | 49.5 | 49.5 | 49.3 | 99% | 39.5 | 80% | 39.5 | 80% |
| MEASURE R - TIFIALOAN | 545.9 | 545.9 | 545.9 | 545.9 | 100% | 0.0 | 0% | 0.0 | 0% |
| MEASURE R | 661.1 | 661.1 | 347.1 | 661.1 | 100% | 206.1 | 31% | 190.7 | 29% |
| OTHER FUNDS* | 52.4 | 187.5 | 0.0 | 0.0 | 0% | 0.0 | 0% | 0.0 | 0% |
| PROP C 25% HIGHWAY | 148.9 | 189.6 | 3.8 | 3.4 | 2% | 3.4 | 2% | 3.4 | 2% |
| PROP C 40% DISCRETIONARY | 0.0 | 10.2 | 0.0 | 0.0 | 0% | 0.0 | 0% | 0.0 | 0% |
| PROP A 35% RAIL CAPITAL | 4.8 | 50.4 | 4.9 | 4.9 | 0% | 4.9 | 0% | 4.8 | 10% |
| TOTAL | 1,749.0 | 2,058.0 | 1,000.6 | 1,609.3 | 78.2% | 302.0 | 14.7% | 286.7 | 13.9% |

NOTE: Expenditures are cumulative through December 2013.

Original Budget based on Board approved October 2011 Funding/Expenditure Plan

Total Funds Anticipated based on Board approved June 2013 Revised Funding

* Other funds include: Local Agency Funds (\$107.470), CNG Tax Credit (\$54.000) and 3rd Party Lease Contingency (\$26.000)

STATUS OF FUNDS ANTICIPATED

FEDERAL – CMAQ: Metro submitted to FTA in October 2013 a draft grant application of \$30M for review. Metro submitted a formal submittal in November 2014 for review and approval.

STATE PROP 1B – PTMISEA: An allocation request for \$12M was approved in May 2012 and funds are available for drawdown. In March 2013, allocation requests of \$11.4M and \$98.9M were submitted to Caltrans. The \$11.4M allocation request was approved in June 2013. Funds are available for drawdown. The \$98.9M allocation request is expected to be approved by *the first quarter of 2014*.

STATE PROP 1B LP: An allocation request of \$49.5M was submitted in April 2013 and approved in July 2013. *The allocation request was executed by Caltrans in December 2013. Funds are available for drawdown.*

MEASURE R – TIFIA LOAN (Transportation Infrastructure Finance & Innovation Act): Application for a loan of \$545.9 M was submitted to the US Department of Transportation (DOT) in November 2011. Loan agreement was executed on September 12, 2012. The current financial plan is to drawdown funds not prior than FY16.

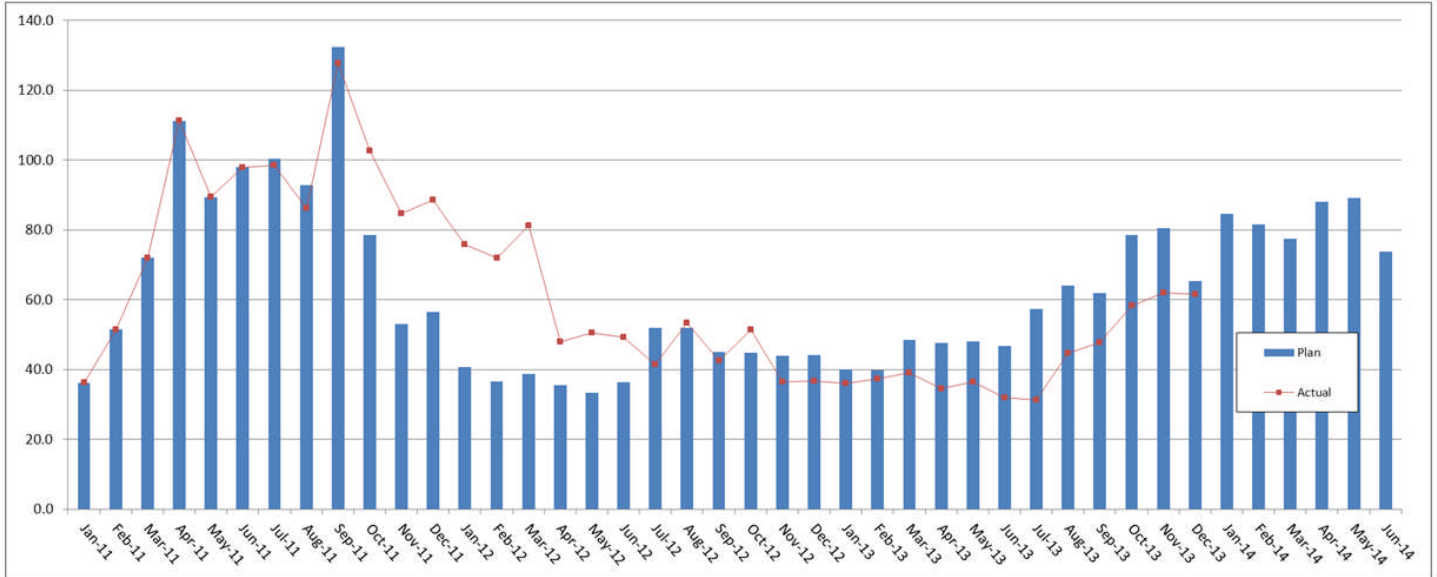
MEASURE R: \$53.4M has been allocated to the project based on the January 2012 Funding Plan. Funds are available for drawdown. An additional \$293.7M for FY13 has been allocated to the project based on the proposed May 2012 Measure R Extension Long Range Plan.

PROP C 25% HIGHWAY: \$3.8M has been allocated to the project based on the January 2012 Funding Plan. Funds are available for drawdown.

PROP A 35% RAIL CAPITAL: Based on November 2011 Long Range Transportation Plan, \$4.8 M of Proposition A 35% Rail Capital was allocated in FY2012 for the project. No Proposition A 35% Rail Capital Funds are allocated for Fiscal 2013 and 2014.

STAFFING STATUS

Total Project Staffing – FTES



Notes:

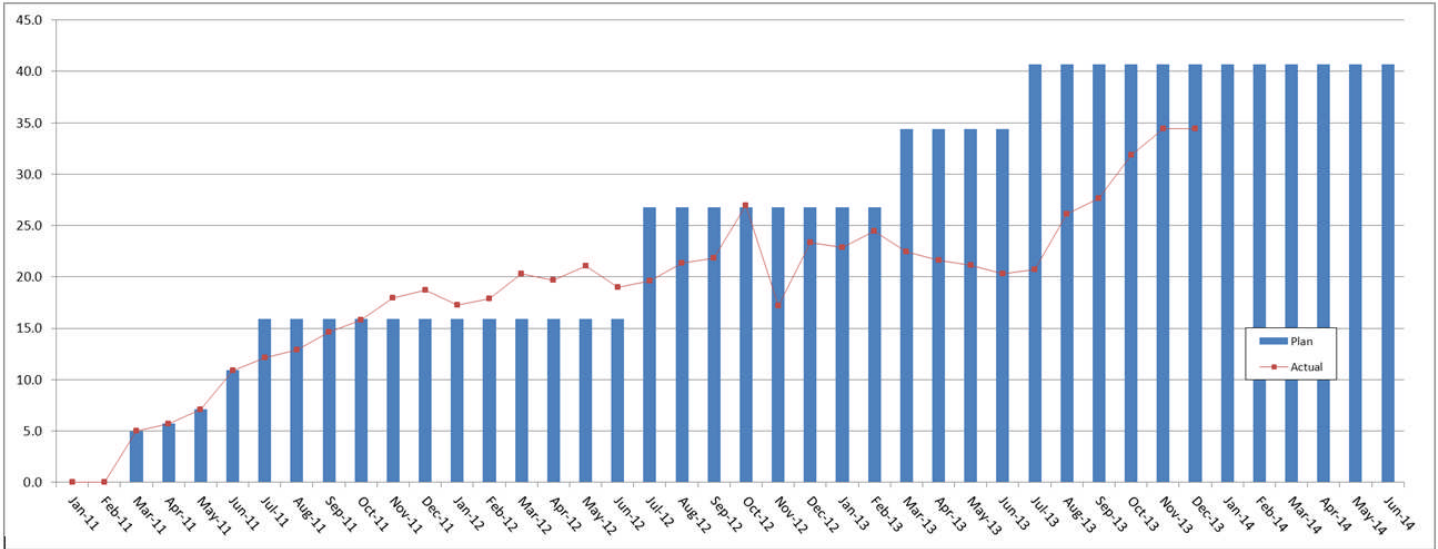
1. FTE = Full Time Equivalent
2. Staffing levels are for project 865512 only.
3. Actual staffing levels are cumulative through December 2013.

TOTAL PROJECT STAFFING

For December 2013, there were a total of 34.4 FTE's for MTA's Project Administration staff and 27 FTE's for consulting staff. The total project staffing was 61.4 FTE's for December 2013. The overall FY14 Total Project Staffing plan averages 75.1 FTE's per month.

STAFFING STATUS (Continued)

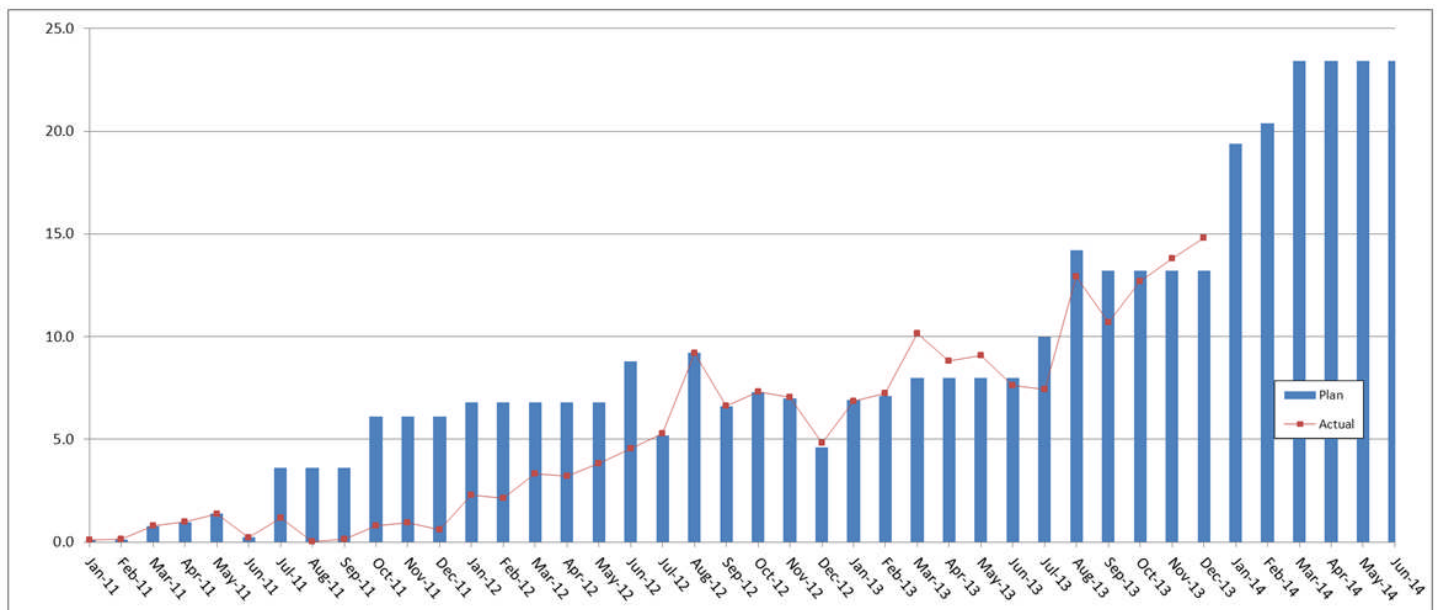
METRO STAFFING – FTES



Notes:

1. FTE = Full Time Equivalent
2. Staffing levels are for project 865512 only.
3. Actual staffing levels are cumulative through December 2013.

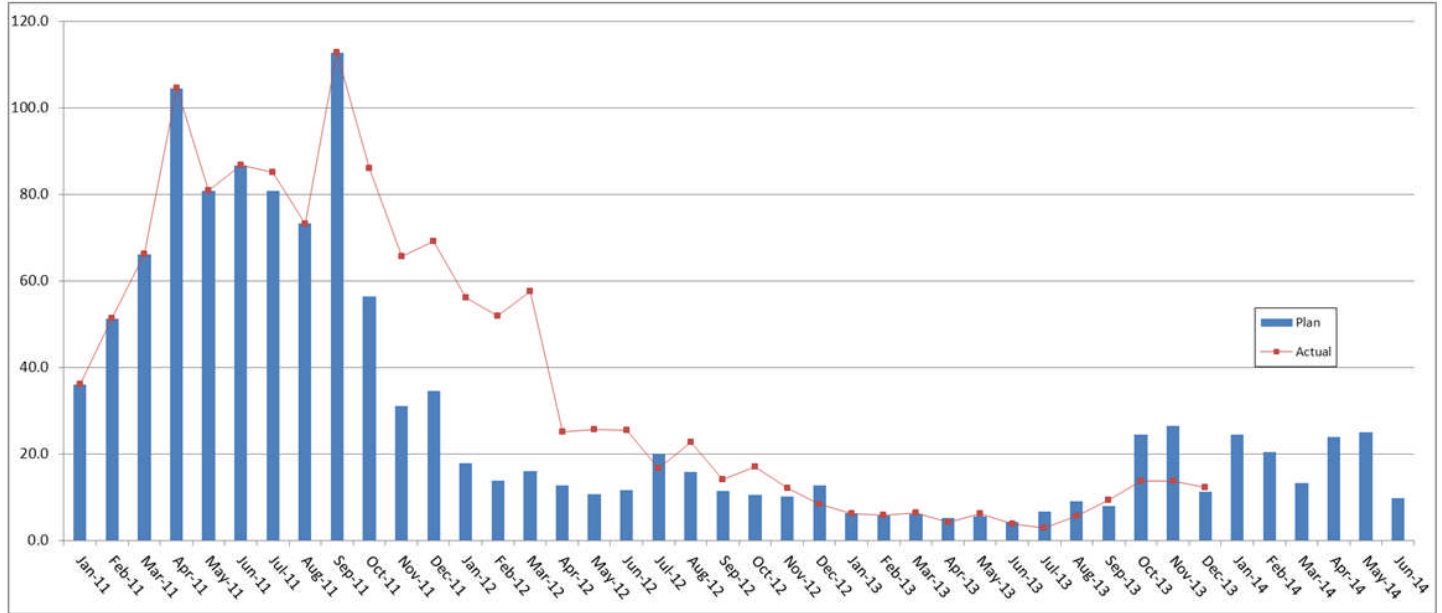
**CONSTRUCTION MANAGEMENT
SUPPORT SERVICES CONSULTANT – FTES**



Notes:

1. FTE = Full Time Equivalent
2. Staffing levels are for project 865512 only.
3. Actual staffing levels are cumulative through December 2013.

**STAFFING STATUS (Continued)
ENGINEERING SERVICES CONSULTANT - FTES**



Notes:

1. FTE = Full Time Equivalent
2. Staffing levels are for project 865512 only.
3. Actual staffing levels are cumulative through December 2013.

REAL ESTATE STATUS

| Contract No. | Number of Parcels | Certified | Decertified | Appraisals in Process/Compl | Offers Made | Agreements Signed | Condemnation Filed | Relocations Complete | Parcels Available |
|---|-------------------|-----------|-------------|-----------------------------|-------------|-------------------|--------------------|----------------------|-------------------|
| C0988 C/LAX Transit Corridor (D-B): | | | | | | | | | |
| Crenshaw | | | | | | | | | |
| Full Takes | 12 | 12 | | 12 | 12 | 4 | 5 | 3 | 8 |
| Part Takes (PT or SE) | 10 | 9 | 1 | 9 | 6 | 1 | | | |
| TCE | 10 | 10 | | 10 | 1 | | | | |
| Subtotal Parcels | 32 | 31 | 1 | 31 | 19 | 5 | 5 | 3 | 8 |
| Relocations | 15 | | | | | | | 2 | |
| Harbor Subdivision | | | | | | | | | |
| Full Takes | 14 | 14 | | 14 | 14 | 4 | 6 | 5 | 10 |
| Part Takes (PT or SE) | 19 | 18 | 1 | 18 | 4 | | | | |
| TCE | 3 | 2 | 1 | 2 | | | | | |
| Subtotal Parcels | 36 | 34 | 2 | 34 | 18 | 4 | 6 | 5 | 10 |
| Relocations | 34 | | | | | | | 5 | |
| Total HS/CR Parcels: | 68 | 65 | 3 | 65 | 37 | 9 | 11 | 8 | 18 |
| C0991 Southwestern Yard (D-B): | | | | | | | | | |
| Full Takes | 8 | 8 | | 8 | 8 | 3 | 5 | 1 | 1 |
| Part Takes | 0 | | | | | | | | |
| TCE | 0 | | | | | | | | |
| Subtotal Parcels: | 8 | 8 | 0 | 8 | 8 | 3 | 5 | 1 | 1 |
| Relocations | 4 | | | | | | | 0 | |
| C0990 C/LAX Advance Utility Relocations: | | | | | | | | | |
| Total Parcels: | 0 | | | | | | | | |
| Total Project Parcels | 76 | 73 | 3 | 73 | 45 | 12 * | 16 | 9 | 19 |

- **73** appraisals in various stages of completion (7 reviews outstanding).
- **4** environmental investigations (final reports outstanding).
- **45** offers made to property owners.
- **19** parcels acquired.

* **As of December 24, 2013**

QUALITY ASSURANCE STATUS

C0988 Crenshaw/LAX Transit Corridor Design-Build Contract

- *Reviewed and approved revision 1 to the Design Quality Manual.*
- *Reviewed and provided comments on Construction Work Plans and Design Work Plan.*

ENVIRONMENTAL STATUS

C0988 Crenshaw/LAX Transit Corridor Design Build

- *Worked on scope of work for WSCC hazardous waste abatement and contaminated soil.*
- *Met with WSCC to discuss asbestos abatement plan submittal, hazardous waste abatement at Expo Station parcels, sustainability plan.*
- *Reviewed Sustainability Plan re-submittal and Contractor hazardous waste plan and hazardous management plan re-submittal, various contract documents, Phase II documents and risk assessment and Phase II reports.*
- *Attended weekly progress meeting, groundbreaking planning meetings, excavation/environmental task force meeting and Advance Utility Meeting.*
- *Reviewed Voluntary Cleanup Agreement (VCA) application.*

C0990 Advanced Utilities Contract

- *Coordinated background noise monitoring for nighttime advanced utility work.*

CONSTRUCTION RELATIONS STATUS

- Participated in bi-weekly briefing with the Office of Supervisor Mark Ridley-Thomas.
- *Attended City of Los Angeles, Council District 8, Annual Tree Lighting Ceremony.*
- *Participated in project briefing with The Wave Editorial Newspaper.*
- *Participated in planning meeting with Tesoro Oil owners regarding gas line at Crenshaw/60th St. to discuss plan for outreach efforts.*
- *Conducted outreach and disseminated construction notices for four new project related work activities.*
- *Gave project briefing to LAX/Coastal Chamber of Commerce and Crenshaw/LAX Community Leadership Council Safety POD Meeting.*
- *Participated in site visit in preparation for Groundbreaking event scheduled for early 2014.*
- *Provided project briefing and construction safety awareness training at Grace United Church, 42nd Street Elementary School and St. Bernadette Catholic Church.*
- *Conducted project briefing and tour for Transportation Deputy, Noel Pallais and David Roberts, Office of Councilmember Bernard Parks.*
- *Participated in holiday community event at Martin Luther King Elementary School with Walsh-Shea Corridor Constructors.*
- *Conducted business profiles in Leimert Park area at Crenshaw Blvd. and 43rd St.*
- *Joined project staff in briefing and variance requests to City of Los Angeles, Councilmember Bernard Parks.*

CREATIVE SERVICES STATUS

Art Program

- Artist selection development.
- Ongoing community outreach.
- Design Build Mobilization.
- *Artist research.*
- *Planning for construction visual mitigation.*

SAFETY & SECURITY STATUS

- Participated in weekly progress meetings with Construction Manager and Contractor Management to discuss safety/security related issues and construction schedules.
- IPO staff participated in Construction Safety Orientation conducted by Walsh & Shea Safety personnel.
- Monitored construction activities on a daily basis including night construction activities to ensure compliance with contract specifications.
- Reviewed contractor submittals and work plans to ensure compliance with contract specifications.
- Metro Builders reported **4,805** work hours and zero incidents. Walsh/Shea reported **17,782** work hours and no accidents for the month of **December 2013**. Total Project-to-Date work hours are **109,312** with one recordable incident. The incident rate for the project is **1.82**. The national recordable rate average is 3.8.

THIRD PARTY AGREEMENT STATUS

| Third Party | Type of Agreement | Forecast Execution Date | Required Need Date | Status/ Comments |
|---|---|--------------------------------|---------------------------|--|
| City of Los Angeles | Amendment to Master Cooperative Agreement | N/A | N/A | Parties will work under 2003 MCA. |
| City of Inglewood | Master Cooperative Agreement | 12/13 | N/A | Executed Letter of Agreement April 2012. City still working and reviewing draft MCA. |
| Los Angeles Department of Water and Power | Amendment to Memorandum of Understanding | N/A | N/A | Metro and LADWP will work under 2002 Utility Cooperative Agreement which remains in effect. |
| Los Angeles County Public Works | Letter of Agreement | 4/11 | 3/12 | Executed |
| Caltrans | Amendment | 8/11 | 3/12 | Executed |
| Private Utilities | LOA, MOU or UCA | 5/11 to 5/13 | N/A | Metro is working with affected third party utilities under work orders unless license agreements dictate relocation by utility company. No additional agreements required. |

ADVANCED UTILITY RELOCATION STATUS

- Relocation of Qwest ducts **completed**.
- Relocation of DWP-Power conduits, and manholes completed at Manchester Avenue; Installation of cable started and cut-over should complete by March 2014.
- Advance relocation of DWP-Power conduits, manholes and conduits completed at MLK and Expo Station sites. Installation of the cable started in August 2013. Work to be complete by March 2014.
- Design complete by DWP-Water for advance relocation of eleven (11) water lines along Crenshaw Boulevard. Construction will start in late September 2013. Work is forecast to complete by April 2014.
- Design in progress by SCE for advance relocation of fiber crossings and pole supports along the Harbor Subdivision. Completion expected by **March 2014**.
- Design in progress by SCE for the advance relocation of power crossings and pole supports on Redondo Blvd. at High St. completion expected June 2014.



**CPUC CROSSING SUMMARY
CPUC CROSSING SUMMARY**

| Package | PE Consultant submits RCHAR* to MTA | MTA submits RCHAR* to CPUC | Field Diagnostic Meeting | CPUC Preliminary Recommendations to MTA | Revise RCHAR* & Submit to PUC for Additional Technical Evaluation | Submit Formal Application to PUC | CPUC Approval |
|---------|-------------------------------------|----------------------------|--------------------------|---|---|----------------------------------|---------------|
| 1 | 1/26/2012A | 2/6/2012A | 03/28/12 - 3/30/12A | 8/1/2012A | 9/24/12A | Nov12/Feb13A | 04/28/14 |
| 2 | 1/26/2012A | 2/6/2012A | 03/28/12 - 3/30/12A | 8/1/2012A | 9/24/12A | Nov12/Feb13A | 02/17/14 |
| 3 | 1/26/2012A | 2/6/2012A | 03/28/12 - 3/30/12A | 8/1/2012A | 9/24/12A | Nov12/Feb13A | 02/17/14 |
| 4 | 1/26/2012A | 2/6/2012A | 03/28/12 - 3/30/12A | 8/1/2012A | 9/24/12A | Nov12/Feb13A | 04/28/14 |
| 5 | 1/26/2012A | 2/6/2012A | 03/28/12 - 3/30/12A | 8/1/2012A | 9/24/12A | Nov12/Feb13A | 02/17/14 |

(*) Rail Crossing Hazard Analysis Report (RCHAR)

| Package Description | |
|---|--|
| <p>1 Harbor Subdivision At Grade Centinela Av 25-FA Ivy Avenue 27-FA Eucalyptus Avenue 28-FA North Cedar Avenue 29-FA Oak Street 30-FA Arbor Vitae Street 36-FA</p> | <p>4 Crenshaw At Grade West 48th Street 5FA West 50th Street 6-FA West 52nd Street 7-FA West 54th Street 8-FA West 57th Street 9-FA Crenshaw Boulevard/West 59th Street 11-FA Slauson Avenue 10-FA</p> |
| <p>2 Harbor Subdivision At Grade Victoria Avenue 21-88B Brynhurst Avenue 22-88B West Boulevard 23-FA Redondo (Closure) Hindry 34-FA La Brea Station Pedestrian Crossing High Street</p> | <p>5 Crenshaw Grade Separation Rodeo Road 2-FA Rodeo Place 3-FA Coliseum Street 4-FA Crenshaw Boulevard/West 60th Street 13-16 Crenshaw Boulevard/West 63rd Street 14-16 Crenshaw Boulevard/West 66th Street 16-16 Crenshaw Boulevard/West 66th Place 17-1 Crenshaw Boulevard/West 67th Street 18-16 Hyde Park Boulevard 31-88B Crenshaw Boulevard/West Vernon Avenue Crenshaw Boulevard/West 43rd Place Crenshaw Boulevard/West 43rd Street Crenshaw Boulevard/West Stocker Street Crenshaw Boulevard/West Martin Luther King Boulevard Crenshaw Boulevard/West Mall Entrance Crenshaw Boulevard/West 39th Street Crenshaw Boulevard/West Coliseum Place</p> |
| <p>3 Harbor Subdivision Grade Separation La Brea Street 26-88B San Diego (SR 405) UP 32-164D La Cienega Boulevard 33-88B Manchester (SR105) 35-88B Century Boulevard UP37-164D 104th Street 38 (877)-88B 111th Street 39-88B Imperial Highway 40-164D I-405 West Hyde Park</p> | |

CPUC General Order No. 164-D process has been suspended by Commission. Project has been directed to file formal applications.

Protests were received on CPUC Application Packages 1 and 4. A pre-hearing was held April 9, 2013 on Package 1 to review the elements of the protests. A pre-hearing for a Protest received on Package 4 was held on June 14, 2013. The Administrative Law Judge at the meeting encouraged all parties to seek Alternative Dispute Resolution and established the overall process time line concluding in April 2014.

Since no protests were received to packages 2, 3 and 5, Metro anticipates CPUC approval by February 2014.

CHRONOLOGY OF EVENTS

| | |
|-------------------|--|
| 2003 | Major Investment Study |
| April 2007 | Board authorized the CEO to award Contract PS 4330-1968 to complete environmental clearance and conceptual engineering. |
| December 2009 | Board adopted the LRT Alternative as the Locally preferred Alternative and received and filed the Crenshaw Transit Corridor DEIS/DEIR. |
| December 2009 | Board authorized the CEO to award Contract No. EO117 for Phase I, Advanced Conceptual Engineering. |
| September 2010 | Board authorized the CEO to exercise option with Contract No. EO117 for Phase II Preliminary Engineering. |
| April 2011 | Board adopted the Arbor Vitae/Bellanca (Site 14) LPA for the Maintenance Facility Site |
| July 2011 | Board approved Southwestern Yard cost allocation. |
| September 2011 | Board approved Project Definition and certified Final Environmental Impact Report |
| October 2011 | Board approved the Life-of-Project Budget of \$1.749 billion. |
| December 15, 2011 | CTC reviewed the FEIS/FEIR and adopted the required resolution for future funding consideration. |
| December 23, 2011 | Request for Qualifications for Contract C0988 C/LAX Transit Corridor was released to Industry. |
| December 30, 2011 | Received Record of Decision from FTA. |
| February 10, 2012 | Released Invitation for Bid for Contract C0990 Crenshaw/LAX Advanced Utility Relocations. |
| March 12, 2012 | Received Statement of Qualifications for Contract C0988 C/LAX Transit Corridor. |

CHRONOLOGY OF EVENTS (Continued)

| | |
|--------------------|--|
| May 16, 2012 | Notification of pre-qualified proposers for Contract C0988 C/LAX Transit Corridor. |
| May 30, 2012 | Awarded Contract No. C0990 C/LAX Advanced Utility Relocations to Metro Builders and Engineers Group LTD. |
| June 22, 2012 | Released Request for Proposals for Contract C0988 C/LAX Transit Corridor. |
| August 24, 2012 | Received approval from the Surface Transportation Board regarding BNSF Railway Company abandonment along five-mile Crenshaw Segment of the Harbor Branch ROW. |
| September 4, 2012 | Preparation of a FONSI for Supplemental Environmental Assessment to the FEIS was approved by FTA. |
| September 28, 2012 | Completed abandonment process with BNSF. |
| September 28, 2012 | TIFIA and TIGER II Grants approved. |
| December 6, 2012 | Received proposals for Contract C0988 C/LAX Transit Corridor. |
| February 22, 2013 | Issued Amendment No. 8 requesting Best and Final Offers (BAFO) for Contract C0988 C/LAX Transit Corridor. |
| March 15, 2013 | Received BAFO's for Contract C0988 C/LA Transit Corridor. |
| May 23, 2013 | Board amended the Agency's FY14 Proposed Budget to include funding of \$80 million for an underground station at Leimert Park Village as part of the baseline project. |
| June 27, 2013 | The Board awarded Contract C0988 Crenshaw/LAX Transit Corridor to Walsh-Shea Corridor Constructors. |
| July 10, 2013 | Issued notice of award to Walsh-Shea Corridor Constructors, Contract C0988 Crenshaw/LAX Transit Corridor. |


CHRONOLOGY OF EVENTS (Continued)

| | |
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| August 1, 2013 | United States Department of Transportation approves Metro's request to increase the Crenshaw/LAX Project Budget to \$2,058 million. |
| August 8, 2013 | Issued notice of execution of the contract was issued to Walsh-Shea Corridor Constructors, Contract C0988 Crenshaw/LAX Transit Corridor. |
| September 10, 2013 | Issued Notice to Proceed to Walsh-Shea Corridor Constructors, Contract C0988 Crenshaw/LAX Transit Project. |
| December 5, 2013 | <i>The Board approved Memorandum of Understanding with the Los Angeles World Airports for a parallel design and possible construction modifications near Aviation/Century Station to accommodate elements of LAWA's SPAS.</i> |
| December 5, 2013 | <i>The Board awarded Contract C0992 with Rocla Concrete Tie, Inc; for the procurement of concrete ties and assembly items.</i> |


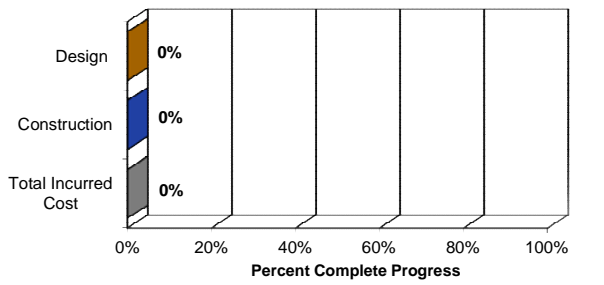
CONTRACT C0988 STATUS
Crenshaw/LAX Transit Corridor

| <p>PE Design Contractor: Hatch Mott MacDonald (HMM) CM Consultant: Stantec Contractor: - Walsh Shea Corridor Constructors (WSCC)</p> | <p>Contract No.: C0988 Status as of December 27, 2013</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-------------------|-----------------------|-----------------------|--|---|---|----------|---------------------------|-----|---|-----------------|----------|----------------------------|------|------------------------------------|----------|--|----------|-------------------|---|----------|----------|--|--|---|----------|----------|--|--|---|----------|----------|--|--|--|
| <p>Progress/Work Completed: - MTA issued NTP to Contract C0988 WSCC on September 10, 2013 - Contractor draft CAD Plan Submittal was approved. - Contractor SWPP Plan Submittal was approved. - Contract submit Maintenance of Traffic Plans for Expo & MLK Stations; Continued development of Maintenance of Traffic Plans for Vernon Stations - Continued refinement of Project Alignment and Profile and work on Ground Improvements package for Cross Passages and Utilities - Continued design on early works utility package and coordination of third party utilities - Initialed design for City of LA Storm Drain and Sanitary Sewer and City of Inglewood Storm Drain and Water - Continued development of the 3D model and design Confirmation activities for Track/Trackway and Ductbank - final Above Ground Geotechnical Planning Report submitted - Continued design efforts on ground structures, substations, and local streets on all Segments - Continued design confirmation efforts for design criteria for the Systems - Submitted Bridge Type Selection Report to Caltrans for approval for bridge crossing the 405 Freeway</p> | <p>Areas of Concern: - None</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Schedule Assessment: Contractor 120 day schedule submittal was approved by MTA. Contractor first baseline schedule submitted rejected on Dec 12th, 2013. Contractor second baseline schedule submittal received on Dec 24th, 2013 and is currently under review by MTA.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Schedule Summary:</p> <table border="0"> <tr> <td>1. Date of Award:</td> <td align="right">08/01/13</td> </tr> <tr> <td>2. Notice to Proceed:</td> <td align="right">09/10/13</td> </tr> <tr> <td>3. Original Substantial Completion Duration:</td> <td align="right">1824</td> </tr> <tr> <td>4. Current Substantial Completion Duration:</td> <td align="right">1824</td> </tr> <tr> <td>5. Elapsed Time from NTP:</td> <td align="right">108</td> </tr> </table> | 1. Date of Award: | 08/01/13 | 2. Notice to Proceed: | 09/10/13 | 3. Original Substantial Completion Duration: | 1824 | 4. Current Substantial Completion Duration: | 1824 | 5. Elapsed Time from NTP: | 108 | <p>Cost Summary: \$ In millions</p> <table border="0"> <tr> <td>1. Award Value:</td> <td align="right">1,272.63</td> </tr> <tr> <td>2. Executed Modifications:</td> <td align="right">0.53</td> </tr> <tr> <td>3. Approved Change Orders:</td> <td></td> </tr> <tr> <td>4. Current Contract Value (1 + 2 + 3):</td> <td align="right">1,273.16</td> </tr> <tr> <td>5. Incurred Cost:</td> <td align="right">117.81</td> </tr> </table> | 1. Award Value: | 1,272.63 | 2. Executed Modifications: | 0.53 | 3. Approved Change Orders: | | 4. Current Contract Value (1 + 2 + 3): | 1,273.16 | 5. Incurred Cost: | 117.81 | | | | | | | | | | | | | | | |
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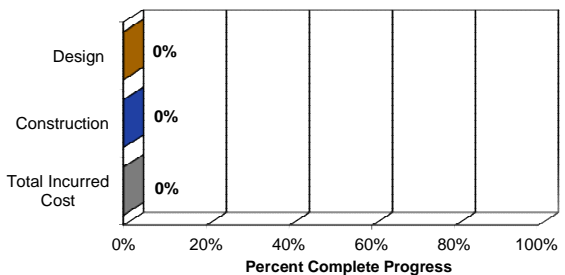
CONTRACT C0990 STATUS
Crenshaw/LAX Advanced Utility Relocations

| <p>PE Design Contractor: Hatch Mott MacDonald (HMM) CM Consultant: Stantec Contractor: - Metro Builders and Engineers Group LTD</p> | <p>Contract No.: C0990 Status as of November 29, 2013</p>  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-------------------|-----------------------|-----------------------|--|---|---|----------|---------------------------|------|--|-----------------|------|----------------------------|---------------|----------------------------|------|--|------|-------------------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <p>Progress/Work Completed: - Contractor continued development of construction work plans, traffic control plans, shop drawings for City and DWP utility relocations. - Work has continued at 59th Street & Crenshaw with sewer excavation, sewer shoring, bedding/laying of sewer pipe, and sewer encasement. - Work has continued at 67th sewer relocation: excavation, shoring, bedding/laying of sewer pipe. - Work has continued at Crenshaw & Liernert Park storm drain relocation: excavation, shoring, bedding/laying of sewer pipe. - Work started on waterline relocations on Crenshaw Blvd.</p> | <p>Areas of Concern: - Sandy soil conditions at 59th & Crenshaw have resulted in a slower than anticipated rate of excavation for sewer relocation with an estimated production loss of 82%. These sandy soil conditions are anticipated at 67th & Crenshaw.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Schedule Assessment: The forecast dates for Contract Milestones shown in the table below are based on the contractor's Oct13 Schedule Update.</p> <p>MTA's assessment of the contractor's forecast completion date shown in the table below (and projected current cash flow burn rates) is a potential completion of April, 2014.</p> <p>The Contractor submitted TIA#3 requesting an extension of 56 work days to contract completion as a result of continued Sandy Soil Conditions at 59th & Crenshaw. MTA has reviewed TIA#3 and agrees to 42 work days (59 calendar day) as a result of lost production.</p> <p>The Contractor submitted TIA#5 which was rejected by MTA as the DWP work delays were concurrent with other Contractor caused delays.</p> <p>The Contractor submittal TIA#6, #8 and #9 were also received and are currently under review by MTA.</p> | <p>Cost Assessment: The current construction contract cost forecast is \$7.89million and within the Board authorized budget. The forecast has increased from the previous reporting period primarily due to approved change orders.</p> <p>The Contractor 13th payment application was late and expected to be submitted in the middle of January 2014</p> <p>Increase in costs to the construction contract award value are a result of design enhancements and change orders. Decreases are the result of scope deletions.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Schedule Summary:</p> <table border="0"> <tr> <td>1. Date of Award:</td> <td align="right">05/30/12</td> </tr> <tr> <td>2. Notice to Proceed:</td> <td align="right">07/17/12</td> </tr> <tr> <td>3. Original Substantial Completion Duration:</td> <td align="right">365</td> </tr> <tr> <td>4. Current Substantial Completion Duration:</td> <td align="right">468</td> </tr> <tr> <td>5. Elapsed Time from NTP:</td> <td align="right">500</td> </tr> </table> | 1. Date of Award: | 05/30/12 | 2. Notice to Proceed: | 07/17/12 | 3. Original Substantial Completion Duration: | 365 | 4. Current Substantial Completion Duration: | 468 | 5. Elapsed Time from NTP: | 500 | <p>Cost Summary: \$ In millions</p> <table border="0"> <tr> <td>1. Award Value:</td> <td align="right">7.83</td> </tr> <tr> <td>2. Executed Modifications:</td> <td align="right">(0.19)</td> </tr> <tr> <td>3. Approved Change Orders:</td> <td align="right">0.25</td> </tr> <tr> <td>4. Current Contract Value (1 + 2 + 3):</td> <td align="right">7.89</td> </tr> <tr> <td>5. Incurred Cost:</td> <td align="right">6.00</td> </tr> </table> | 1. Award Value: | 7.83 | 2. Executed Modifications: | (0.19) | 3. Approved Change Orders: | 0.25 | 4. Current Contract Value (1 + 2 + 3): | 7.89 | 5. Incurred Cost: | 6.00 | | | | | | | | | | | | | | | | | | | | |
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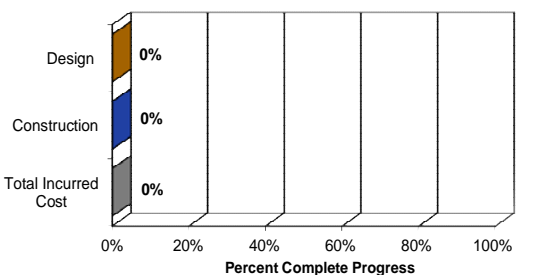
CONTRACT C0991 STATUS
Southwestern Yard

| <p>PE Design Contractor: Hatch Mott MacDonald (HMM) CM Consultant: Stantec Contractor: - TBD</p> | <p>Contract No.: C0991 Status as of: December 27, 2013</p>  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-------------------|------------------|-----------------------|-----------------------|--|--|--|--|---|--|--|--|--|---|--|--|--|--|---|--|--|--|--|---|--|--|--|--|---|--|--|--|--|---|--|--|--|--|--|---|
| <p>Progress/Work Completed: - PE drawing package completed December 2012. - IFB contract package on hold. Reaffirmation of contract delivery approach slated for April 2014.</p> | <p>Areas of Concern: - None.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Schedule Assessment:</p> | <p>Cost Assessment:</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Schedule Summary:</p> <ol style="list-style-type: none"> Date of Award: Notice to Proceed: Original Substantial Completion Duration: Current Substantial Completion Duration: Elapsed Time from NTP: | <p>Cost Summary: \$ In millions</p> <ol style="list-style-type: none"> Award Value: Executed Modifications: Approved Change Orders: Current Contract Value (1 + 2 + 3): - Incurred Cost: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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CONTRACT C0992 STATUS
Concrete Ties

| PE Design Contractor: Hatch Mott MacDonald (HMM) CM Consultant: Stantec Contractor: - TBD | | Contract No.: C0992 Status as of: December 27, 2013  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------|--|-------------------|-----------------------|----------|-----------------------|---|----------|----------|----------|---|--|--|--|--|---|--|--|--|--|---|--|--|--|--|---|--|--|--|--|---|--|--|--|--|---|--|--|--|--|---|--|--|
| Progress/Work Completed: - Bids received on August 27, 2013 - Metro Board approved Contract Award on December 5th, 2013 - Notice to Proceed issued on December 23rd, 2013 | | Areas of Concern: - None. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schedule Assessment: | | Cost Assessment: The current construction contract cost forecast is \$2,161,297 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schedule Summary: | | Cost Summary: \$ In millions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Date of Award: 12/10/13 2. Notice to Proceed: 12/23/13 3. Original Substantial Completion Duration: 220 4. Current Substantial Completion Duration: 220 5. Elapsed Time from NTP: 4 | | 1. Award Value: 2.1 2. Executed Modifications: 3. Approved Change Orders: 4. Current Contract Value (1 + 2 + 3): - 2.1 5. Incurred Cost: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Milestones</th> <th>Original Contract</th> <th>Current Contract</th> <th>Forecast</th> <th>Calendar Day Variance</th> </tr> </thead> <tbody> <tr> <td>Milestone 1 - Contract Substantial Completion</td> <td>07/31/14</td> <td>07/31/14</td> <td>07/31/14</td> <td>0</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> </tbody> </table> | | Milestones | Original Contract | Current Contract | Forecast | Calendar Day Variance | Milestone 1 - Contract Substantial Completion | 07/31/14 | 07/31/14 | 07/31/14 | 0 | | | | | 0 | | | | | 0 | | | | | 0 | | | | | 0 | | | | | 0 | | | | | 0 | <p>PERCENT COMPLETE <i>from 12/23/2013 to 12/27/2013</i></p>  <p>Design 0% Construction 0% Total Incurred Cost 0%</p> <p>0% 20% 40% 60% 80% 100% Percent Complete Progress</p> <p><i>Construction physical percent complete excludes mobilization and general requirements</i></p> | |
| Milestones | Original Contract | Current Contract | Forecast | Calendar Day Variance | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Milestone 1 - Contract Substantial Completion | 07/31/14 | 07/31/14 | 07/31/14 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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CONTRACT C0992A STATUS
Running Rail and Bumping Posts

| <p>PE Design Contractor: Hatch Mott MacDonald (HMM) CM Consultant: Stantec Contractor: - TBD</p> | <p>Contract No.: C0992A Status as of: Decemver 27, 2013</p>  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|-------------------|------------------|-----------------------|-----------------------|--|--|--|--|---|--|--|--|--|---|--|--|--|--|---|--|--|--|--|---|--|--|--|--|---|--|--|--|--|---|--|--|--|--|---|--|
| <p>Progress/Work Completed: - Bids received on August 27, 2013. - Contract C0992 was split into two contracts with the rail and bumping posts now under new Contract C0992A. - Contract C0992A was advertised on October 15, 2013. - Bids were received on November 20, 2013. - Forecast to go to Metro Board for award on January 23rd, 2014.</p> | <p>Areas of Concern: - None.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Schedule Assessment:</p> | <p>Cost Assessment:</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Schedule Summary:</p> <ol style="list-style-type: none"> Date of Award: Notice to Proceed: Original Substantial Completion Duration: Current Substantial Completion Duration: Elapsed Time from NTP: | <p>Cost Summary: \$ In millions</p> <ol style="list-style-type: none"> Award Value: Executed Modifications: Approved Change Orders: Current Contract Value (1 + 2 + 3): - Incurred Cost: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Milestones</th> <th>Original Contract</th> <th>Current Contract</th> <th>Forecast</th> <th>Calendar Day Variance</th> </tr> </thead> <tbody> <tr><td></td><td></td><td></td><td></td><td>0</td></tr> <tr><td></td><td></td><td></td><td></td><td>0</td></tr> <tr><td></td><td></td><td></td><td></td><td>0</td></tr> <tr><td></td><td></td><td></td><td></td><td>0</td></tr> <tr><td></td><td></td><td></td><td></td><td>0</td></tr> <tr><td></td><td></td><td></td><td></td><td>0</td></tr> <tr><td></td><td></td><td></td><td></td><td>0</td></tr> </tbody> </table> | Milestones | Original Contract | Current Contract | Forecast | Calendar Day Variance | | | | | 0 | | | | | 0 | | | | | 0 | | | | | 0 | | | | | 0 | | | | | 0 | | | | | 0 | <p>PERCENT COMPLETE <i>from ____ to ____</i></p>  <p>Construction physical percent complete excludes mobilization and general requirements</p> |
| Milestones | Original Contract | Current Contract | Forecast | Calendar Day Variance | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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CONSTRUCTION PHOTOGRAPHS



Geotechnical boring at a depth of 25 ft.



Asphalt paving on 67th Street.

APPENDIX
COST AND BUDGET TERMINOLOGY

Project Cost Descriptions -

| | |
|------------------|---|
| ORIGINAL BUDGET | The Original Project Budget as established by the Metropolitan Transportation Authority (Metro) Board on October 27, 2011. |
| 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, 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 invoices, third party invoices, 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 LRT vehicles and spare parts for the project. |
| PROFESSIONAL SERVICES | Includes design engineering, project management assistance, 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 receivable to the Metro as a direct result of project activities. This includes cost sharing construction items, insurance premium rebates, and the like. |

APPENDIX
LIST OF ACRONYMS

| | |
|----------|---|
| ACE | Advanced Conceptual Engineering |
| ADR | Alternative Dispute Resolution |
| ALJ | Administrative Law Judge |
| AMC | Airport Metro Connector |
| APM | Automated People Mover |
| ATC | Alternative Technical Concept |
| ATC | Automatic Train Control |
| ATSAC | Automated Traffic Surveillance and Control |
| BAFO | Best and Final Offer |
| BID | Business Improvement Development |
| BIM | Building Information Modeling |
| BNSF | Burlington Northern Santa Fe Railway Company |
| BOC | Bus Operations Control |
| CADD | Computer Aided Drafting and Design |
| CALTRANS | California Department of Transportation |
| CCTV | Closed Circuit Television |
| CD | Calendar Day |
| CD | Council District |
| CDRL | Contract Data Requirement List |
| CE | Categorical Exemption |
| CEQA | California Environmental Quality Act |
| CFR | Code of Federal Regulations |
| CM | Construction Manager |
| CMAQ | Congestion Mitigation and Air Quality Improvement Program |
| CN | Change Notice |
| CO | Change Order |
| 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 |
| CWP | Construction Work Plan |
| DB | Design Build |
| DBB | Design Bid Build |
| DBE | Disadvantaged Business Enterprise |
| DOT | Department of Transportation |
| DRB | Dispute Review Board |
| DWP | Department of Water and Power |
| EEO | Equal Employment Opportunity |
| EIR | Environmental Impact Report |
| EIS | Environmental Impact Statement |
| EPBM | Earth Pressure Balance Machine |

APPENDIX
LIST OF ACRONYMS (Continued)

| | |
|--------|--|
| FAA | Federal Aviation Administration |
| FAR | Federal Acquisition Regulation |
| FCBC | Faith Central Bible Church |
| FD | Final Design |
| FEIR | Final Environmental Impact Report |
| FEIS | Final Environmental Impact Statement |
| FFGA | Full Funding Grant Agreement |
| FLSR | Fire Life Safety Report |
| FONSI | Finding of No Significant Impact |
| FRA | Federal Railroad Administration |
| FSEIR | Final Supplemental Environmental Impact Report |
| FSEIS | Final Supplemental Environmental Impact Statement |
| FTA | Federal Transit Administration |
| FTE | Full Time Equivalent |
| GBR | Geotechnical Baseline Report |
| GDSR | Geotechnical Design Summary Report |
| GFE | Good Faith Effort |
| HMM | Hatch Mott MacDonald |
| IFB | Invitation for Bid |
| IPMO | Integrated Project Management Office |
| ITF | Intermodal Transportation Facility |
| 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 |
| LNTP | Limited Notice To Proceed |
| LOA | Letter of Agreement |
| LONP | Letter Of No Prejudice |
| LOP | Life-of-Project |
| LPA | Locally Preferred Alternative |
| LRT | Light Rail Transit |
| LRTP | Long Range Transportation Plan |
| LRV | Light Rail Vehicle |

APPENDIX
LIST OF ACRONYMS (Continued)

| | |
|--------|---|
| MBE | Metro Builders and Engineers Group, Ltd |
| MCA | Master Cooperative Agreement |
| MIS | Major Investment Study |
| MOS | Minimum Operating Segment |
| MOU | Memorandum of Understanding |
| MPS | Master Program Schedule |
| MPSR | Monthly Project Status Report |
| MSF | Maintenance & Storage Facility |
| N/A | Not Applicable |
| NEPA | National Environmental Protection Act |
| NFPA | National Fire Protection Association |
| NOD | Notice of Determination |
| NPDES | National Pollution Discharge Elimination System |
| NTE | Not to Exceed |
| NTP | Notice To Proceed |
| OCC | Operations Control Center |
| OCS | Overhead Catenary System |
| OSHA | Occupational Health and Safety Administration |
| OTS | Over the Shoulder |
| PA/VMS | Public Address/Visual Messaging Sign |
| PDQM | Project Design Quality Manual |
| PE | Preliminary Engineering |
| 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 |
| POD | Project Oriented Discussions |
| PQPM | Project Quality Program Manual |
| 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 |

APPENDIX
LIST OF ACRONYMS (Continued)

| | |
|--------|--|
| RFMP | Rail Fleet Management Plan |
| RFP | Request For Proposals |
| RFQ | Request For Qualifications |
| 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 |
| RTIP | Regional Transportation Improvement Program |
| 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 |
| SP | Special Provision |
| SPAS | Specific Plan Amendment Study |
| SPP | Special Permitting Process |
| SSMP | Safety and Security Management Plan |
| STB | Surface Transportation Board |
| STIP | State Transportation Improvement Program |
| STP | Surface Transportation Program |
| STV | STV Group |
| SWPP | Storm Water 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 |

APPENDIX
LIST OF ACRONYMS (Continued)

| | |
|-------|--|
| TOD | Transit Oriented Development |
| 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 |
| WSCC | Walsh/Shea Corridor Constructor |
| YOE | Year of Expenditure |