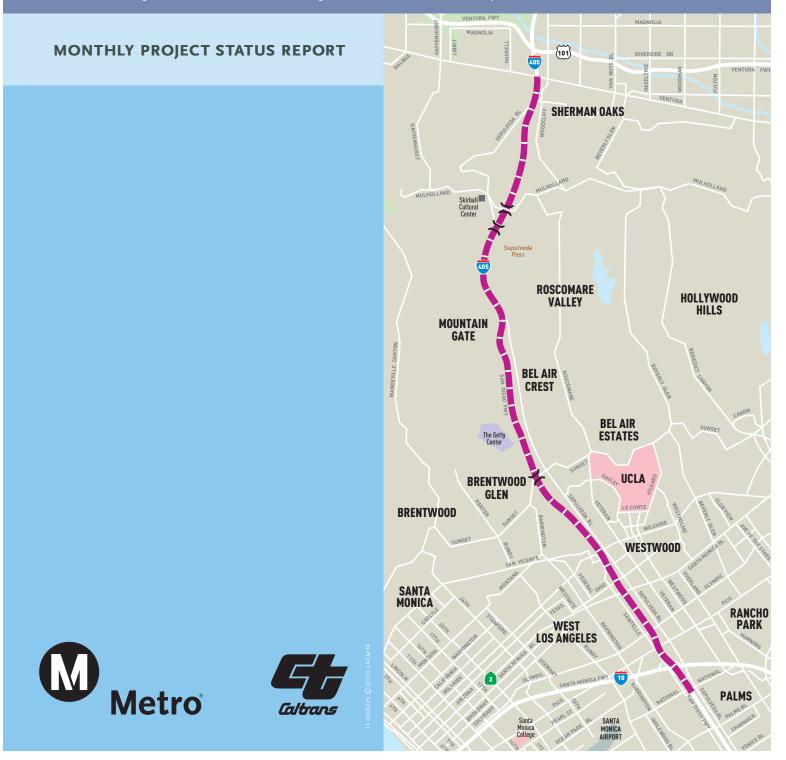


I-405 Sepulveda Pass Improvements Project



INTERSTATE 405 SEPULVEDA PASS IMPROVEMENTS PROJECT

MONTHLY PROJECT STATUS REPORT

THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH GRANTS FROM THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) AND THE AMERICAN RECOVERY AND REINVESTMENT ACT (AARA) AND FUNDS FROM THE STATE OF CALIFORNIA.

JANUARY 2011

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I-405 Sepulveda Pass Improvements Project Monthly Project Status Report

PROJECT OVERVIEW & STATUS

The I-405 Sepulveda Pass Improvements Project will add a 10-mile HOV lane and improve supporting infrastructure such as ramps, bridges and sound walls on the San Diego Freeway (I-405); while widening lanes from the Santa Monica Freeway (I-10) to Ventura Freeway (U.S. 101). This project will reduce existing and forecasted traffic congestion on the I-405 and enhance traffic operations by adding freeway capacity in an area that experiences heavy congestion. In addition to these modifications, the project will improve both existing and future mobility and enhance safety throughout the corridor. Project benefits include a decrease in commuter time, reduce air pollution, and promote ridesharing. The I-405 Sepulveda Pass Improvements Project features include:

- Add a 10-mile HOV lane on the northbound I-405 between the I-10 and US-101 freeways
- Remove and replace the Skirball Center, Sunset Blvd. and Mulholland Dr. Bridges
- Realign 20 on and off ramps
- Widen 20 existing overpasses and structures
- Construct approximately 18 miles of retaining walls and sound walls

Interstate 405 (I-405), also known as the San Diego Freeway, is a north/south route classified as an interstate/interregional loop freeway. It is part of the National Highway System (NHS), originating at the I-5 in Orange County in the City of Irvine and terminating at the I-5 in Los Angeles County, in the City of Los Angeles near the community of Mission Hills. The high-occupancy vehicle (HOV) lanes on I-405 are currently operating in both northbound and southbound directions from the county line of Orange County to north of I-105; from north of Burbank Boulevard to Route 118; and in the southbound direction from Waterford Street to north of Burbank Boulevard.

The design-build contract Notice to Proceed (NTP) was given on 6/2/2009, with commencement of contract time (1550 calendar days) on August 31, 2009. Substantial completion is currently expected to occur in May 2013, with final acceptance of the project required by November 27, 2013.

Critical areas for the project are Veterans Administration (VA) and General Services Administration (GSA) properties acquisition, finalization of Design comments, Recovery Schedule completion, Getty/Mulholland Bridge and Reversible Lane project Changes, and identifying all utility relocations and their impact to the project. Acquisition of the VA and GSA properties are not late but are becoming a concern, and the Project has solicited support from the Elected Officials and FHWA with progress being slow. The Project will continue to pursue all possible avenues to get through the acquisition of these key properties. Kiewit design related support activities are substantially complete and almost all packages have been submitted at the 100% level. Unresolved issues are being resolved at much slower pace than expected. As this is a concern, the I-405 Team has been meeting and working on final comments with two major comments resolved and one more added to the list. The Project continues to ask Kiewit to identify the unresolved issues being held up with the City and County, and is working through these issues to expedite final approval. Currently, the project is also asking Caltrans to identify the unresolved issues to determine the criticality and possibility of any impacts to the project. Kiewit and Metro are working with the list of "Road Blocks" which are not Metro or Kiewit specific but are rather Project specific. The Recovery Schedule is complete except there are two areas which the Project believes could be mitigated by approximately 3 months, to complete by the Contractual Substantial Completion date. The I-405 alignment adjacent to the Getty has passed the 30% design and is continuing toward the 60% design with procurement starting on the critical wall located at the northend of Getty. The Mulholland Bridge realignment is going to the City Design Review Board to

PROJECT OVERVIEW & STATUS (Cont'd)

address potential changes to the Mulholland Scenic Drive alignment; The Project believes that the Community and Design Review Board will be supportive of the alignment. Addition of the COLA Reversible Lane to the I-405 has been slow because of FHWA concerns with the City canceling the project and cost sharing with the Department of Water and Power (DWP) utility relocations in the same area. In the Reversible Lane area, the Project is prospering a 3rd lane from Skirball Off-Ramp to Skirball Over-Crossing which appears to have not been clearly identified on the information for Bidders plans. Kiewit was directed to proceed with the baseline design for the Skirball Ramps and it appears that the issue has been resolved with no further comments from the CAC or Community.

The DWP Power Undergrounding activities on Sepulveda between Montana and Sunset are complete with one minor service hookup at Bronwood yet to be completed. Kiewit is working on the Sunset Bridge south side abutments, and Bents 2 and 3. Construction of Walls 1720/1730 is underway and picking up pace; top bench excavation and installation of soldier piles are complete; drilling for tie-backs is moving along with row B nearly complete. This work has been slowed because Kiewit is using only one drill rig but Kiewit is adding a second tie-back rig with potential for more if the space permits. Skirball Bridge preparation work of bumping out lanes for foundation work has been slowed due to sub-standard pavement; Kiewit will most likely demolish a significant part of this work. Construction of Bridge 4a/4b (Santa Monica Blvd. UC) is well underway; pile driving and demolition of the bridge is complete. The issue with the excavation material not passing specification for PH content continues to hinder the Project because of Kiewit's slow reaction in addressing the problem. Project concern on delays and impacts has been brought to Kiewit's attention at numerous meetings. Kiewit has plans to resolve this issue but is slow in implementation which has caused some delays and has required some removal of already placed wall panels and backfill material. Kiewit is processing a claim for this issue but the Project has not found any merit in the claim; Kiewit will most likely refer the claim to the Dispute Review Board (DRB). The I-405 Team has been questioning the reasons Kiewit is not working in certain areas of the project and is confirming or challenging Kiewit's perceived road blocks.

Key project activities for January 2011 include:

• Retaining Walls 1720/1730 adjacent Sound wall Maintenance issues between Caltrans and City Staff has not been resolved. Numerous meetings have not resolved these issues and regardless of the lack of decision, the Project will construct the walls.

Caltrans ROW appraisal process for temporary and permanent easements continues and is well underway. The Project has obtained Right-of-Entry (ROE) for Kiewit on all the required parcels. Kiewit extended Temporary Construction Easement (TCE) limits beyond the ROE agreements. This has potential impact to the appraisal process which is being managed by Caltrans. Metro has written a letter to Kiewit on this issue and is looking for review of QA/QC process for excavation and surveying.

PROJECT OVERVIEW & STATUS (Cont'd)

- Widening of Sepulveda between Montana and Church to accommodate the COLA requests for standard lanes and shoulders. Part of the potential costs will be through a Change Order and Provisional Sums are involved as well as increases and decreases in baseline costs which are making this not a straightforward process. Metro Contract Administration has asked that this issue be addressed as a change and the Project is working to process it through the system. The Change Notice has been processed, Metro Contracts Administration has determined the merit, and County Counsel has approved this change. The Project is working with Kiewit on splitting the design and construction costs between the different funding sources which has been proven to be a difficult process. The Project met with Metro Construction Committee to address the change and obtained full Board approval at the December 9, 2010 Board Meeting.
- The existing 12' X 12' Reinforced Concrete Box under Sepulveda Blvd. has been incorporated into Kiewit's design and construction work was incorporated in Kiewit's schedule. Metro is working with Kiewit to finalize costs but have only received ROM estimate to date.
- Project approved Kiewit's request for 12 Early Release for Construction (ERFC) packages and specific bridges but little work has started. Project sent correspondence requesting Kiewit for explanation on why it appears that Kiewit is treating this job as design-bid-build vs. design-build. Project met with Kiewit management several times and reiterated Metro's dissatisfaction with the status of the project progress followed by a letter explaining the concerns. The Project initiated review of the Recovery Schedule that Kiewit submitted on December 16, 2010 and has concerns with Kiewit's approach regarding missing or lack of detail in the Recovery Schedule.
- Initiated review of the Recovery Schedule that Kiewit submitted on December 16, 2010 and has concerns with Kiewit's approach regarding missing or lack of detail in the Recovery Schedule. Latest agreement with Kiewit has the recovery Schedule to be completed by early February 2011 and recent over-the-shoulder review indicated Kiewit is finally close to completing the task.
- As discussed earlier, the Project is working with Kiewit, Designer, and Caltrans to resolve last comments. There appears to be only two significant comments left and the resolution is expected by end of February 2011. A point of concern is that the comments left from the deferred list are surfacing again, and the Project is working with Caltrans and Kiewit to resolve these as they were not expected to have any impacts to the design.

MANAGEMENT ISSUES

Concern No. 1: Community Outreach Program

<u>Status/Action</u> Aesthetics have been resolved and this issue is closed.

Mulholland Bridge and Mulholland Scenic Highway are being studied and the Project will present the suggested restoration plans to the Design Review Board on February 17, 2011.

Concern No. 2: Align I-405 Closer to the Getty Parking Structure (96" MWD Waterline)

Status/Action The Project and Getty are in conceptual agreement with the 5+1 lane configuration, ROW, and other issues. Written agreement has been with Caltrans legal staff for the past several months, several staff changes are acerbating the agreement process but it is going forward. This is a critical issue as the 96" waterline relocation has to take place if this agreement is not acceptable to both parties. Getty and Caltrans ROW staff has met twice and it appears that Caltrans ROW staff will assist with the Getty Agreement thus the finalization of this issue is in sight. Caltrans management has assured Metro that they want this agreement and will work with Getty on their requests as part of this agreement. The project has dropped the 96" waterline relocation plans all together, and while this may be a risk without having the agreement in place, any further work on the 96" waterline relocation will cost at least \$1 million with unusable materials left over. The newly appointed Caltrans lawyer has reviewed the agreement and comments are significant. Getty has indicated that the Project is going back to square one. Project is working with Caltrans management to resolve this issue. The Project met with Getty and CTC, and Caltrans had a follow-up meeting in late December. Caltrans appears to be fully engaged at this time with Design Deputy taking over negotiations with Getty.

Concern No. 3: Provisional Sums

<u>Status/Action</u> Provisional Sums process is moving forward and finally getting agreements on estimates fairly quickly.

Concern No. 4: One Team with Caltrans and Metro

Status/Action Caltrans has asked the Project to review staffing levels, with the intent of resolving any issues before design effort ends. Considering the contentious nature of Kiewit, the Project believes that it is prudent to keep sufficient Caltrans field staff on the project to address potential schedule and management issues. The Project is looking at adding one or two City oversight staff to address the City construction progress and track Kiewit's effort.

MANAGEMENT ISSUES (Cont'd)

Concern No. 5: Reversible Lane Project on Sepulveda

Status/Action The FHWA has agreed that portions of the Reversible Lane Project on Sepulveda Blvd. could be incorporated in the I-405 Project. The I-405 Project has identified the areas to be included and is now working with COLA and FHWA to resolve the funding issues and concerns, specifically how the I-405 Project would be reimbursed for this work and how the remaining funds for the portions of the work not done on the I-405 Project would be handled. The COLA wrote a letter to FHWA canceling the contract and requesting that funds not be de-obligated. While this letter is 6 weeks late, nevertheless it will provide a resolution on whether the reversible lane will be incorporated into the I-405 Project or not.

FHWA has indicated verbally that they concur with the City request and have asked the Project to write a Change Notice to add the work. Metro needs assurance from FHWA on the cost reimbursement before proceeding. Project has set a meeting with LADWP and LABOE to remind them that the Reversible Lane is a City project and per agreement with the Agencies, relocation of power between Skirball Overcrossing and terminus of Skirball ramp is the City and LADWP responsibility. The Project met with the City and DWP regarding cost sharing of power relocations, and DWP requested different work and cost split. I-405 Project will concur as long as DWP secures a commitment on crews and work schedule. The Project is still negotiating this issue.

Concern No. 6: Review Support from COLA

Status/Action The COLA has, for the most part, met commitments for the submittal review times, but in the last month or so, the COLA Departments have made it clear that they will not be able to make some of the upcoming review times due to lack of staff and resources. Funding is available to the City, but in some cases, no overtime has been allocated to the appropriate accounts at the Mayor's office. The Project and Metro will continue to work with the City Staff and Elected Officials to find ways to keep the project supported and on schedule. K.N. Murthy, LACMTA Deputy Chief Capital Management Officer and the COLA Mayor's office met with City Managers to develop core services plan which requires City Staff to be committed to Metro Projects. Currently, the I-405 Project has asked LABOE and LADOT for staff and none are available at this time. Regardless of this effort, the Project is working with the City Staff and will escalate issues as necessary.

MANAGEMENT ISSUES (Cont'd)

Concern No. 7: Kiewit and Metro Estimating Approaches

Status/Action Metro and Kiewit have found it difficult to reconcile estimates, although the Project is working on different approaches with different staff. The Project has made progress with design estimates which seems to be a breakthrough on this aspect of estimating with Kiewit. The Project is also still working on the construction estimate issue; different oversight staff and new hires are in the works. Ultimately, until the construction estimate issues are resolved, the Project will continue using unilateral CNs and PSAs based on agreed quantities and construction estimates verified using more than one method of analysis. Project hired one additional estimator and established oversight by one of I-405 senior staff. Project has also brought in independent estimators for change work verification.

Concern No. 8: Mulholland Bridge Realignment

Status/Action The Project's plan to realign Mulholland Drive was progressing until high level City Manager (LADOT) requested that options for "curved" Mulholland Drive be considered. This is causing schedule delay and raised concern with costs. Project met with City on December 21, 2010 to address these concerns. City will submit their comments early February 2011 and Project will meet with the Elected Officials Staff to obtain concurrence as well. Project will meet with Design Review Board at the City on February 17, 2011 to address changes to Mulholland Scenic Highway. Final Costs of design and Construction are being worked on and should be complete by the end of February 2011.

Concern No. 9: Recovery Schedule

Status/Action The Project Recovery Schedule was submitted on December 16, 2010 inclusive of all known construction activities and re-sequencing. This is the first step in resolving schedule problems with Kiewit. Project early review detected some problems with the Recovery Schedule. The Project has resolved most of the issues and will work with Kiewit to resolve two outstanding issues to meet the Contractual Substantial Completion deadline. Project expects approval of the Recovery Schedule by mid-February 2011.

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PROJECT SCOPE

The I-405 Sepulveda Pass Improvements Project is a Design-Build contract to add a 10mile High Occupancy Vehicle (HOV) lane on the northbound San Diego Freeway (I-405) between the Santa Monica (I-10) and Ventura (US 101) Freeways. The purpose of the project is to reduce congestion by adding the HOV lane and closing the HOV gap, which will provide a continuous HOV lane from the Orange County Line to the I-405/US-101 interchange. The scope entails an 11-foot half median, one 12-foot HOV lane, a 1-foot HOV buffer, five 12-foot mixed-flow lanes, and a 10-foot outside shoulder.

Most of the freeway widening required for this project occurs along the east side of I-405 along Sepulveda Blvd. between Montana Ave. and Moraga Dr. and between Getty Center Drive and the northbound Getty Center off-ramp. Sepulveda Blvd. is going to be slightly realigned at the relocated southbound I-405 Skirball Center Drive on/off-ramps in order to add a left-turn lane to the on-ramp.

Some freeway widening also occurs along the west side of the freeway between Olympic Blvd. and Waterford Street and between Bel Air Crest to just north of Ventura Blvd.

In order to reduce accidents associated with traffic on the ramps, project scope includes several interchange improvements as detailed below:

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PROJECT SCOPE

- <u>Wilshire Blvd. interchange in both directions</u> The northbound on-ramp from eastbound Wilshire Blvd. is grade-separated from the northbound off-ramp to westbound Wilshire Blvd. and from Sepulveda Blvd. The southbound off-ramp to eastbound Wilshire Blvd. is grade-separated from the southbound off-ramp to westbound Wilshire Blvd.
- Northbound I-405 Sunset Blvd. interchange
 - The northbound I-405 off-ramp to eastbound Sunset Blvd. is widened to include one more lane. Two exclusive 12-foot lanes on the reconstructed Sunset Blvd. overcrossing and two 12-foot lanes on the on-ramp are provided for the northbound I-405 on-ramp from eastbound Sunset Blvd. In the eastbound direction three 12foot lanes and in the westbound direction three 11-foot lanes are provided which solves the existing reduction from three lanes to two lanes in the eastbound direction. In both directions, 4-foot shoulders and 5-foot sidewalks as well as a 13foot median are provided on the Sunset Blvd. overcrossing.
- The irregular northbound I-405 on/off-hook ramps at the Getty Center interchange are reconfigured to a standard diamond interchange to increase stopping sight distances in order to improve safety.
- The southbound I-405 Skirball Center Drive interchange is relocated to form a "T" intersection with Sepulveda Blvd. This eliminates the existing intersection at the end of the southbound I-405 Skirball Center Drive off-ramp.
- The southbound Valley Vista/Sepulveda Blvd. off-ramp is reconstructed due to freeway widening.

A total of 12 soundwalls and 54 retaining walls within the project limits are constructed at embankments where right-of-way is constrained.

A total of 12 undercrossings within the project limits are widened. Three overcrossings at Sunset Boulevard, Skirball Center Drive, and Mulholland Drive are replaced.

KEY MILESTONE SCHEDULE SIX-MONTH LOOKAHEAD

	Milestone Date	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11
Bridge 16- Sunset OC- Start Construction of Piers/Columns/Abutment/Wing Wall	1/3/11A	0					
5		0					
Bridge 5 Ohio UC: Begin Work (Demo Steel Rail) Bridge 12 Constitution UC: Begin Work (Demo Steel Rail)	1/11/11A 1/13/11A	0					
Bridge 16- Sunset OC-Begin Installing Footing/Pile Cap	1/17/11A	0					
Bridge 22 Mulholland OC: RFC (Base Work)	1/21/11A	0					
Bridge 9 Wilshire UC: RFC	1/27/11A	0					
Bridge 20 Bel Air Crest UC: RFC	1/28/11A	0					
Bridge 21 Skirball OC: Begin Work	2/2/11*		0				
Bridge 2 Exposition OH: RFC	2/4/11*		0				
Bridge 8 EB Wilshire On Ramp: RFC	2/4/11*		0				
Bridge 1 E10-N405: RFC	2/7/11*		0				
- Area 2 Sewers # 201-203 Begin Work	2/7/2011		0				
AT&T / Verizon Comm Lines # 196A @ Walls 1720 & 1730 Begin Work	2/7/2011		0				
Walls 1746, 1730, 1720 Sewer Lines #401-403 Begin Work	2/7/2011		0				
SoCal Gas Line #239 Begin Removal	2/7/2011		0				
Storm Drain # 415-416 Begin Work	2/7/2011		0				
Time Warner Cable @ Pico Ave. Begin Work	2/7/2011		0				
LADWP #N393 Relocation @ Church Ave. Begin Work	2/7/2011		0				
Storm Drain #407-409 @ Walls 1720 & 1730 Begin Work	2/9/2011		0				
Bridge 15 Sunset On Ramp: RFC	2/11/11*		0				
Shell Pump Station N698 Begin Work	2/14/2011		0				
VA Storm Drain #304 Begin Work	2/14/2011		0				
4" Water Line @ Valley Vista Begin Work	2/14/2011		0				
Bridge 10 Sepulveda UC/Wilshire Off Ramp NB - RFC	2/28/11*		0				
Bridge 11 Sepulveda UC/Wilshire On Ramp NB - RFC	2/28/11*		0				
Area 4 Sunset City: RFC	2/28/11*		0				
Verizon Telecom # 187/192 Begin Work	2/28/2011		0				
Time Warner Cable # N868 @ Wall 1746 Begin Work	3/2/2011			0			
Metro Milestone O Design/E CT Caltrans Milestone * New Date	2	∕_ HWA		es Approval deral Highw a	ıy Administr	ation	

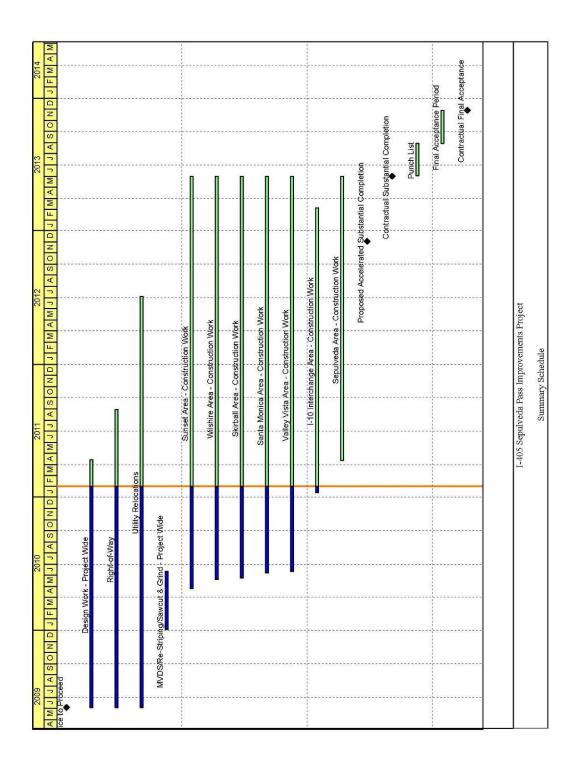
KEY MILESTONE SCHEDULE SIX-MONTH LOOKAHEAD

	Milestone Date	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11
Area 1 Storm Drain Encasement Begin Work	3/7/11			0			
Area 2 Storm Drain # 201-206 Begin Work	3/7/11			0			
Area 3 Storm Drain # 301-308 Begin Work	3/7/11			0			
SoCal Gas 8" Gas Line # 222 Begin Work	3/7/11			0			
Bridge 17 : RFC	3/8/11*			0			
Sewer Lines # 401B-403B Begin Work	3/8/11*			0			
Bridge 19 Sepulveda Blvd. UC - RFC	3/14/11*			0			
Valley Vista Home Demolition	3/14/11*			0			
Mulholland Segment Fire Hydrants # N967	3/14/11			0			
poles	3/14/11			0			
LADWP # 304 Begin Work	3/21/11			0			
Shell Oil Line # 355 @ Bridge 23 Begin Work	3/21/11			0			
Area 4A Remaining Storm Drain Begin Work	3/28/11			0			
Area 7 Sewer Line Begin Work	4/1/11				0		
Valley Vista Sewer Line Begin Work	4/1/11				0		
12" Water Line #205-206 Begin Work	4/4/11				0		
Skirball Area - Wild Animal Crossing (Double Box Culvert): Completion	4/5/11				0		
Bridge 3 Olympic Blvd (South); Begin Work	4/6/11				0		
Bridge 4B Santa Monica (North); Complete Work	4/14/11				0		
Bridge 14 Sunset UC Off Ramp: RFC	4/15/11				0		
Bridge 18 Getty Center UC: RFC	4/15/11				0		
Bridge 7 Wilshire Off-Ramp (NB-EB) Begin Work	4/20/11				0		
Bridge 9 Wilshire UC (South); Begin Work (Structural Excavation)	4/20/11				0		
Bridge 15 Sunset On Ramp: Begin Work (Demo Steel	4/25/11				0		
Bridge 9 Wilshire UC (South); Complete Work	4/30/11				0		
Area 7 Storm Drain Begin Work	5/1/11					0	
Bridge 9 Wilshire UC (North); Begin Work (Structural Excavation)	5/2/11					0	
Bridge 22 Mulholland - Begin Work (SOE)	5/17/11					0	
Metro Metro Milestone O Design/E		$\overline{\Delta}$	Third Partie	es Approval	•		
CT Caltrans Milestone * New Da	te F	HWA	FHWA Fec Approval	leral Highw a	y Administr	ation	

KEY MILESTONE SCHEDULE SIX-MONTH LOOKAHEAD

	Milestone Date	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11
Bridge 4A Santa Monica (South); Complete Work	5/17/11					0	
Bridge 5B Ohio (North); Complete Work	5/26/11					0	
Bridge 13 Montana Complete Work	5/31/11					0	
Area 5 Sepulveda - RFC	5/31/11*					0	
Ramp SB On-Ramp From WB Wilshire Blvd; Begin Work (Remove Curb/Sidewalk)	6/2/11						0
Bridge 9 Wilshire UC (North); Complete Work	6/8/11						0
Bridge 12 Constitution UC: Complete Work	6/14/11						0
Bridge 20 Bel Air Crest UC - Begin Work (Demo Steel Rail)	6/21/11						0
Ramp NB Off-Ramp to EB Wilshire Blvd; Begin Work (Break Concrete)	6/27/11						0
Bridge 3 Olympic Blvd (South); Complete Work	6/27/11						0
Bridge 3 Olympic Blvd (North); Begin Work	6/28/11						0
Metro Milestone O Design/f	Build /	\land	Third Partie	es Approval			
CT Caltrans Milestone * New Da	ite F	HWA	FHWA Feo Approval	leral Highw a	y Administr	ation	

I-405 Sepulveda Pass Improvements Project Monthly Project Status Report



PROJECT SUMMARY SCHEDULE

CRITICAL PATH NARRATIVE

The project has several critical paths which may potentially change as the work progresses. Based on the project Recovery Schedule, currently the primary critical path runs through the design and procurement of Soil Nail Wall 1827 (south of Sepulveda UC Bridge 19). It then heads to the construction of Soil Nail Wall 1827 and continues on with construction of the Getty Center On-Ramp. The path continues through construction of Mechanically Stabilized Earth (MSE) Wall 1833, Sepulveda Area Mainline Southbound work, and finally Median work at Sepulveda Area.

PROJECT COST STATUS

FEDERAL PROJECT #: SARRA-405-3(015)N, METRO PRIME CONTRACT# C0882 METRO CONSTRUCTION MANAGEMENT DIVISION / CALTRANS												
COMBINED COST REPORT BY PHASE												
PERIO	d endin	IG: JANUARY 2011										
DOLLARS IN THOUSANDS PHASE PHASE DESCRIPTION ORIGINAL BUDGET CURRENT BUDGET COMMITMENTS EXPENDITURES CURRENT FORECAST							BUDGET / FORECAST					
n	UUDL		BODOLI	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	TOREORDI
0	PA&ED	PROJECT APPROVAL & ENVIRO DOCS	22,000	-	22,000	-	21,457	-	21,457	-	22,000	-
1	PSE	PLANS, SPECS, & ENGINEERING	63,100	-	110,494	705	44,179	1,597	34,756	-	110,494	-
2	RS	RIGHT-OF-WAY SUPPORT	14,000	-	1,563	224	3,393	224	3,393	-	1,563	-
3	CS	CONSTRUCTION SUPPORT	28,000	-	-	441	2,838	441	2,838	-	-	-
4	С	CONSTRUCTION	823,900	-	800,074	-	721,000	3,997	217,211	-	800,074	-
9	RC	RIGHT-OF-WAY CAPITAL	83,000	-	99,869	1,868	16,503	2,010	12,859	-	99,869	-
		TOTAL PROJECT	1,034,000	-	1,034,000	3,239	809,370	8,269	292,513	-	1,034,000	-
			NOTE: EXPENDITURES ARE CUMULATIVE THROUGH DECEMBER 31, 2010. KIEWIT EXPENDITURES ARE ONLY THROUGH NOVEMBER 30, 2010 DUE TO INVOICING LAG.									

PROJECT COST ANALYSIS

Approved Budget

The Approved Budget reflects the Metro Board adopted Life-of-Project (LOP) Budget which was approved in April 2009 in the amount of \$1,034.0 million.

Current Budget and Current Forecast

The Current Budget and Forecast remain the same at \$1,034.0 million. Certain items budgeted and forecast under the PSE phase will be re-allocated to the RS and CS phases once the necessary approvals are obtained.

Commitments

The Commitments increased by \$3.2 million this period for utility relocations agreements, real estate purchases, consulting service contracts, and Metro/Caltrans staff charges.

Expenditures

Expenditures are cumulative through December 2010. The expenditures increased by a total of \$8.3M this period. Expenditures for this period within the engineering phase included Metro project staff and miscellaneous consultant contract services. Metro costs in the right-of-way categories were for 3rd party Metro staff costs and for LAC and DWP, expenditures. Caltrans expenditures for the period included staff charges for engineering, right-of-way support, real estate parcel acquisitions and construction support costs. The Kiewit invoice covering October 2010 for \$4.0M was processed this period. The \$292.5 million in Project Expenditures to date represents 28.3% of the Original Budget.

FINANCIAL/GRANT STATUS – ORIGINAL SCOPE ACTIVITIES

SOURCE	(A) APPROVED BUDGET	(B) TOTAL FUNDS	(C) TOTAL FUNDS	(D) COMMI	(D/B) TMENTS	(E) EXPEN	(E/B) DITURES	(F) BILLED TO SOURCI	
		ANTICIPATED	AVAILABLE	\$	%	\$	%	\$	%
FEDERAL SAFETEA-LU	\$117.000	\$117.000	\$117.000	\$117.000	100%	\$19.098	16%	\$19.098	16%
FEDERAL ARRA	\$189.900	\$189.900	\$189.900	\$189.900	100%	\$178.971	94%	\$178.971	94%
STATE CMIA	\$614.000	\$614.000	\$254.700	\$448.732	73%	\$62.041	10%	\$60.973	10%
STATE TCRP	\$90.000	\$90.000	\$42.000	\$42.000	47%	\$30.765	34%	\$30.765	34%
STATE RSTP	\$10.100	\$10.100	\$10.100	\$10.100	100%	\$0.000	0%	\$0.000	0%
PROPOSITION C 25%	\$13.000	\$13.000	\$13.000	\$1.638	13%	\$1.638	13%	\$1.638	13%

NOTE: EXPENDITURES ARE CUMULATIVE THROUGH DECEMBER 2010.

* BILLING AMOUNT IS LESS THAN EXPENDITURES AMOUNT DUE TO SYSTEM LAG IN SUBMITTING INVOICES TO CALTRANS.

STATUS OF FUNDS ANTICIPATED

FEDERAL SAFETEA-LU: \$117M is available for drawdown for specific phases of the Project as agreed upon in the Cooperative Agreement between Caltrans and Metro.

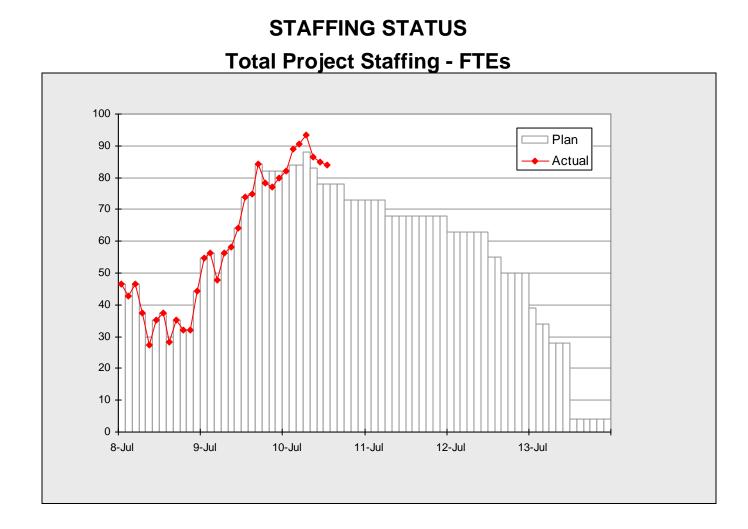
FEDERAL ARRA: \$189.9M is available for drawdown for specific phases of the Project as agreed upon in the Cooperative Agreement between Caltrans and Metro with consultation with FHWA.

STATE CMIA: State Proposition 1B Bond sales provided \$254.7M to the project. Funds are available for drawdown.

STATE TCRP: \$42M is available for drawdown for specific phases of the Project as agreed upon in the Cooperative Agreement between Caltrans and Metro.

STATE RSTP: \$10.1M is available for drawdown for specific phases of the Project as agreed upon in the Cooperative Agreement between Caltrans and Metro.

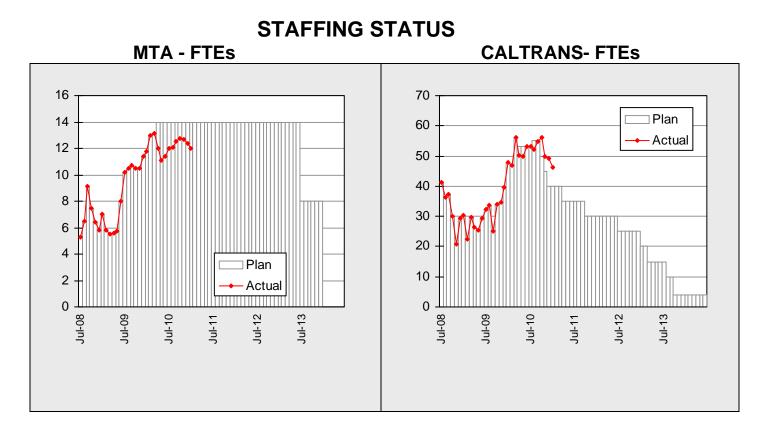
PROPOSITION C 25%: The Metro Board approved the allocation of \$13M to the Project.

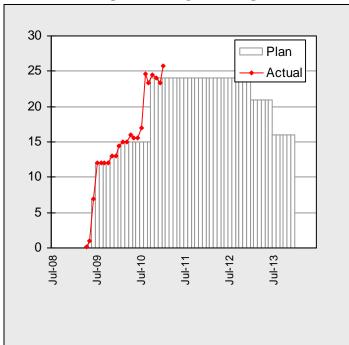


Total Project Staffing

Metro was required to comply with a Federal audit to convert Independent Contract staff to "As needed." Due to limitations for this classification and to meet the needs of the Project, resources were reallocated to the Construction Management Consultant Contract. Additionally, resources were brought on to assist in qualifying, estimating and processing changes to scope. A forecast trend for consultant staffing was incorporated this period also adjusting the total project staffing plan.

I-405 Sepulveda Pass Improvements Project Monthly Project Status Report





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I-405 Sepulveda Pass Improvements Project Monthly Project Status Report

REAL ESTATE STATUS

The Real Estate acquisition process is proceeding with a majority of the parcels on schedule to be turned over to the Contractor by the dates specified in the contract. Three parcels at the Southbound Skirball Off-Ramp have not been delivered to the Contractor on time, and the Project is working with the Contractor regarding access. Currently, most of the parcels are on schedule to meet the target dates stated in the contract, and several parcels may require condemnation in order to be acquired. The Contractor has requested a number of parcels to be provided earlier than required by the contract and the Project is working to accommodate this request.

Parcels of concern:

- Santa Monica Mountain Conservancy (Parcel 79610) The Project has acquired a Right-of-Entry (ROE) to proceed with work on the project while the acquisition process proceeds forward.
- County of Los Angeles (79629) Presently working to acquire a Right-of-Entry (ROE), while at the same time moving forward with condemnation.
- Metropolitan Water District of Southern California (Parcel 79612) A right-ofentry is expected by mid-September 2010, and the Project is working with the Contractor to mitigate any impacts.
- LA County Sanitation Department (Parcel 79630) The Project is moving toward condemnation, as the Agency is not willing to sign an easement for retaining wall tie-backs.

The Project is also focusing intently on several parcels to keep acquisition on schedule:

- The Veterans Administration parcels (79586, 79711) containing the Breitburn oil line are impacted because of the 2008 Act (H.R. 2764) referenced as "Consolidated Appropriations Act, 2008" preventing VA from transferring the parcel.
- The General Services Administration parcel (79559) will require additional attention to assure that acquisition does not impact construction.

Project is moving forward with the compensation and Temporary Construction Easements with the 22 parcels in the Westwood Hills Area.

REAL ESTATE STATUS

31	Total Required Parcels
13	Available for Construction
15	In Appraisal Process
3	Deleted
2	Past Due with no apparent schedule impact

ENVIRONMENTAL STATUS

- Ongoing coordination with resource agencies for required surveys for construction activities.
- Ongoing coordination with Caltrans Legal and Bel Air Crest Association regarding amending existing Settlement Agreement with Bel Air Crest Master Association.
- Coordination with Right-of-Way and Design regarding environmental clearance on subject properties.
- Preparation of Environmental Addendum for Mulholland Realignment option.
- Coordination with Santa Monica Mountains Conservancy and National Park Service on wildlife crossings.
- Coordination with Salvation Army, Westwood Transitional Village and Bessie Pregerson Child Development Center.

COMMUNITY RELATIONS STATUS

- Distributed construction notices for the following construction activities: LADWP under grounding on Sunday, Santa Monica Bridge deck demolition, Constitution Bridge demolition, Ohio Bridge demolition, no parking on Beloit, pile driving @ Wilshire/Sepulveda, utility relocation in Sherman Oaks, freeway lane re-striping near Skirball Bridge, potholing utilities near Getty Trail Head, wall construction notification Saturday work 1720/1730, and potholing Montana/Sepulveda / NB Sunset off ramp.
- Attended and presented at the following meetings: Elected Official's Briefing, Community Advisory Committee (CAC) Meeting, MECA Meeting, Sherman Oaks Homeowners, Valley Vista Homeowners, Luxe Hotel Management, Beloit Avenue, Ohio to Santa Monica Open House, and Salvation Army show-and-tell for Child Care Center.
- Coordinated the following work activities: ground water surfacing in resident's back yard, potential retaining wall demolition in Sherman Oaks, preparation for the Mulholland Design Review Board, Skirball ramp closures, and field trip for CAC member.
- 1,814 followers on Twitter.
- 569 active users on Facebook.
- 284 subscribers on Nixle.
- Website 10,079 page views.

QUALITY ASSURANCE STATUS

- Metro Quality participated in the following meetings:
 - Fifteen Pre Activity Meetings
 - Project Quality Team Meeting, Construction Task Force Meeting, Owner's Status Meeting and Construction Progress Meetings for Segments 1, 2, and 3 and Project Partnering Meeting.
- Two stop work notices were issued by Kiewit.
- Ten Nonconformance Reports (NCR's) were issued during the month.

SAFETY AND SECURITY STATUS

- Project to date recordable injury rate: (Four recordable injuries) 0.5.
- Attended pre-activity meetings to ensure compliance with approved Work Plans and contract specifications.
- Monitored Construction activities to ensure contractor and safety compliance with contract specifications.
- Participated in Kiewit's Foreman's Safety Meetings and weekly progress meetings with IPO and Kiewit management personnel to discuss safety related issues and construction work activities.
- January Contractor work hours (Design and Construction): 99,306.
- Contractor project to date work hours (Design and Construction): 1,328,926.
- Total project to date work hours (Contractor and the IPO staff): 1,544,585.

				UIAIUU
Third Party	Type of Agreement	Forecast Execution Date	Required Need Date	Status/ Comments
City of Los Angeles	MCA	4/11	6/09	At the 2/2/11 meeting with County Counsel and City Attorney's Office, it was decided to prepare a stand-alone Master Cooperative Agreement (MCA) between the City of Los Angeles and LACMTA for the I-405 Project. A draft will be prepared by Third party and will be transmitted to the City for review and comments. It was further decided to exclude "Exhibit "D", which lists/describes City requested improvements/mitigations, from the MCA and that a separate Memorandum of Understanding (MOU) for the City requested improvements/mitigations will be pursued/investigated.
Los Angeles County Department of Public Works/Los Angeles Flood Control District	MCA	4/11	6/09	On 7/29/10, LACMTA provided response to round two of County comments. Expect to meet with County in October to negotiate a final draft. LACMTA is still waiting for the County to set up a meeting to negotiate a final MCA. However, County Counsel has questioned the need for the LACMTA to enter into a Master Cooperative Agreement with the Los Angeles County Department of Public Works since the I-405 Project is a State Project, not a LACMTA Project.
Utility Owners	Utility Agreements	Various	Various	Caltrans style Utility Agreements (similar to MTA Work Order Authorizations) will be completed as relocation plans are approved for each location.

THIRD PARTY AGREEMENT STATUS

I-405 Sepulveda Pass Improvements Project Monthly Project Status Report

CONTRACT STATUS

I-405 Sepuveda Pass Impro Design/Build Contractor: K	-	Contract No.	: C0882	2			
 Progress/Work Completed: Major work started/completed this period: Commenced excavation and demo of Abutments at Bridge 3. Drilled and installed beams at Bridge 5 Abutment 1. Completed excavation of footing at Bridge 7 Abutment 1 and began diving foundation piles. Commenced work on Bridge 12 by removing stel rail and overhang. Completed pouring footings at Bridge 13 and began erecting back forms at Abutments 1 and 2. Completed driving piles at Bridges 5 Abutment 1. Began driving foundation piles at Bridge 7. Completed pouring footings for Bridge 16 Abutment 1. Completed erection of single side wall panels at Bridge 16 Abutment 1. Completed installation of H-piles at Bridge 21 Abutment 1. Maintenance during construction - SWPPP cleanout and repairs, graffiti removal from k-rails, trash and debris removal. 		Status as of: Major Activities DWP power under VA sewer relocatio VA duct bank reloc Excavate/load/hau MSE Wall Panel fa Grading and pavin Construction of W Bridge 4a/4b cons Bridge 5 construct Bridge 7 construct Bridge 13 construct Bridge 16 construct Bridge 16 construct Bridge 3 drive pile Bridge 3 drive pile Bridge 4 form and Bridge 5 install bea Bridge 13 form fac Bridge 15 form fac Bridge 16 set colu Bridge 21 set wall f Maintenance durin	(In Progre grounding. on. cation. I ADL Y1/Y abrication a g. alls 1634/10 struction. ion. ion. ion. ion. ction. ction. ction. ction. g construct Next Perio S. pour abutm ams at abut OE. d pour abutt tings. mns. iorms.	2/Z3. nd delivery 635/1640/1 635/1640/1 tion. od: ment 1. tment 1.	/. 720/1730/	1836/1852/19	40/1941.
			Original Baseline	Time Extension	Current Contract	Forecast Completion	Variance Cur-Fcast
		Commencement	08/31/09	0	08/31/09	08/31/09	0
		Completion	05/31/13	0	05/31/13	05/31/13	0
		Punchlist Complete	08/29/13	0	08/29/13	08/29/13	0
		Final Acceptance	11/27/13	0	11/27/13	11/27/13	0
Schedule Summary:	04/29/09	Cost Summary				\$ In 000's	
Notice to Proceed	06/02/09	1. Award Valu				720,922	
Original Contract Duration (CD)	1640	2. Executed M				0.00	
Approved Time Extensions (CD)	0	3. Approved C	•			810.00	
Current Contract Duration (CD)	1640	4. Current Co		lue (1 + 2	2 + 3):	721,732	
Elapsed Time from NTP (CD) Contract Elapsed Time Percent	606 37.0%	 5. Incurred Co 6. Percent Inc 		st:		227,563 31.5%	

CHRONOLOGY OF EVENTS

May 18, 2007	The Draft Environmental Impact Report (EIR)/Environmental Impact Statement (EIS) is issued.
February 29, 2008	The Final Environmental Impact Report (EIR)/Environmental Impact Statement (EIS) is issued.
March 10, 2008	The Final Environmental Impact Report (EIR)/Environmental Impact Statement (EIS) errata with U. S. General Services Administration (GSA) comments is issued.
October 10, 2008	LACMTA issued Invitation For Bid (IFB) for the project.
February 20, 2009	Project bids opened.
April 23, 2009	LACMTA Board authorized the Chief Executive Officer to award Design-Build Contract C0882 to Kiewit Pacific Co.
April 23, 2009	LACMTA Board approved establishing a budget of \$1.034 billion for project 405523.
April 23, 2009	LACMTA awarded Contract C0882 to Kiewit Pacific in the amount \$694,156,000 to include Schedules A, C, and H (Option 4).
April 29, 2009	LACMTA issued a revised NOA to Kiewit Pacific in the amount \$720,922,000 to include Schedules A, C, E (Option 1), F (Option 2), G (Option 3), and H (Option 4).
June 2, 2009	LACMTA issued Notice to Proceed to Kiewit Pacific for the Design-Build Contract C0882.
August 31, 2009	Contract Commencement Date.
September 24, 2009	Kiewit Pacific submitted the Project Baseline Schedule.
October 14, 2009	Project Design Quality Management Plan approved.
December 14, 2009	Project Quality Management System approved.
January 20, 2010	Project Baseline Schedule was approved.
January 27, 2010	Roadway Restriping commenced.

CHRONOLOGY OF EVENTS (Cont'd)

March 12, 2010	Major Project Permits were obtained; Permit 401 – Water Quality Control Board, Permit 404 – U.S. Army Corps of Engineers, and Permit 1600 – California Department of Fish & Game.
May 31, 2010	The Project completed one year without a Recordable Injury.
July 23, 2010	Sunset Bridge major demolition of the south side top deck and center column.
August 2, 2010	Commenced construction on Bridge 4a/b.
August 16, 2010	Commenced ExxonMobil 16" utility relocation at Bridge 16.
August 20, 2010	Operating Engineers Local 12 initiate labor action by striking.
August 24, 2010	Completed ductbank work on Sepulveda for DWP utility undergrounding.
August 24, 2010	Commenced construction of Walls 1720/1730.
August 24, 2010	ITS Backbone is cut.
September 7, 2010	DWP started pulling wires for utility undergrounding on Sepulveda.
September 9, 2010	Operating Engineers Local 12 Labor action is settled and strike ends.
September 13, 2010	Completed the excavation of Roadway at 1685/1691.
September 15, 2010	Completed the removal of Wall 1665.
September 18, 2010	Completed installation of Temporary walkway at Skirball Bridge.
September 28, 2010	Pioneer access to Sunset on-ramp, Bridge 15 Abutment 1.
October 12, 2010	Began excavation of Sunset Bridge 16 Abutment 1 Footing.
October 12, 2010	Began demolition of Skirball Bridge 21.
October 15, 2010	Completed demolition Skirball Bridge 21.

CHRONOLOGY OF EVENTS (Cont'd)

October 15, 2010	Began driving piles at Santa Monica Bridge 4.
October 15, 2010	Installed Beams at Sunset Bridge 16, Bent #2.
October 15, 2010	Began driving piles on Santa Monica Bridge 4.
October 19, 2010	Completed demolition of Sunset Bridge 16, Abutment 4.
October 21, 2010	Installed beams at Sunset Bridge 15 On Ramp, Abutment 1.
October 22, 2010	Began Demolition of Sunset Bridge 16, Abutment 1.
October 22, 2010	Installed Piles at Wall 1720.
October 25, 2010	Began Excavation at Walls 1685/1691.
October 28, 2010	Began the relocation of overhead power lines at Ohio Ave Bridge 5.
October 28, 2010	Clear and grub area at Wall 1746.
November 12, 2010	Completed demolition of soundwall, barrier rail, and overhang at Bridge 13.
November 15, 2010	Completed installation of SOE at Abutment 1 NB at Bridge 4 Santa Monica.
November 15, 2010	Completed demolition of existing ExxonMobil16" Oil Pipeline.
November 17, 2010	Completed excavation of CIP at Wall 1640.
November 18, 2010	Began excavation at Wall 1635.
November 29, 2010	Began Excavation at Bridge 13.
November 30, 2010	Began relocation of SCE underground vault.
December 7, 2010	Began driving piles at Bridge 13 - Montana Avenue UC.
December 14, 2010	Completed Pile driving at Abutment 1 Bridge 16 Sunset OC.
December 15, 2010	Completed the installation of new power poles and raised the utility wires at Bridge 5 - Ohio Avenue.

CHRONOLOGY OF EVENTS (Cont'd)

December 16, 2010	Completed piles at abutments 1 and 2 for Bridge 13 Montana Ave UC.
December 17, 2010	Began installation of SOE beams at Bridge 15 Sunset on-ramp.
January 3, 2011	Began Construction of Piers and Columns at Bridge 16.
January 11, 2011	Began Construction Activities at Bridge 5.
January 13, 2011	Began Construction Activities at Bridge 12.
January 17, 2011	Began Installation of Footings and Pile Caps at Bridge 16.



Backfilling CIP Wall 1640 footing. Stations 1648+00 – 1655+00.



US demo – demo of existing concrete barrier. Stations 1635+59 – 1637+57.



Installing beams for SOE at Bridge 5 NB, Abutment 1. Stations 1638+50 – 1639+ 75.



Excavating for level pad at Wall 1685, stations 1685+00 - 1690+00.

I-405 Sepulveda Pass Improvements Project Monthly Project Status Report



Abutment 4 Wall Pour Bridge 16 (complete).



Drill tech beam installation at Wall 1730.



Column steel erected at Bent 2 Bridge 16.



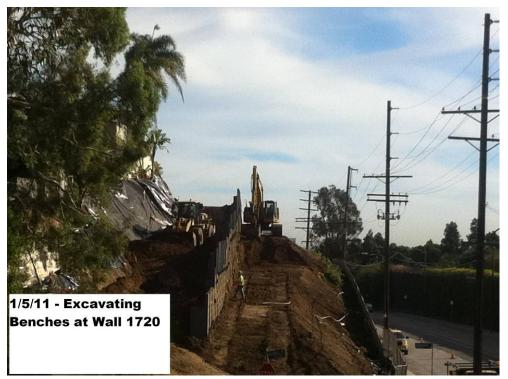
Excavation at Bent 3 Bridge 16 (complete).



Driving pile at Bridge 15 (complete).



Drill tech drilling holes at Wall 1730.



Excavating benches at Wall 1720.



Preparing SB 405 for concrete paving near Skirball Bridge.



Soil Nail Wall 1836 peak construction.



Installing 2nd layer of mesh at Soil Nail Wall 1852.



Installing soil nails at Wall 1940.

APPENDICES

COST AND BUDGET TERMINOLOGY

APPROVED BUDGET: The Approved Project Budget as established by Metro Board of Directors at the time it authorizes Construction Project Management Division to commence full design and construction of the project (Project Adoption).

CURRENT BUDGET: The Original Budget plus all budget amendments approved by formal Metro action. Also referred to as Approved Budget.

CURRENT FORECAST: Evaluation of costs to go combined with actual expenditures.

COMMITMENTS: The total of actual contract awards, executed change orders or amendments, approved work orders of Master Cooperative Agreements, offers accepted for purchase of real estate, and other 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).

PROJECT APPROVAL & ENVIRONMENTAL DOCUMENTS: Costs for agency staff and consulting contracts leading to project approval and environmental clearances.

PLANS, SPECS. & ENGINEERING: Agency staff and consulting contract costs between the initial project approval and environmental clearances but prior to start of construction.

RIGHT-OF-WAY SUPPORT: Costs for agency staff involved in real estate appraisal and parcel purchase activities and agency staff costs involved in utility relocations and third party agreements. Includes real estate appraisal costs.

CONSTRUCTION SUPPORT: Agency staff and consulting contract costs occurring during the construction phase of the project.

CONSTRUCTION: Costs for highway construction, bridge and on/off ramp construction and modifications, retaining wall and sound wall construction. Includes final design costs by Design/Build Contractor.

RIGHT-OF-WAY CAPITAL: Costs for real estate parcel purchases and utility relocations costs after approval of utility company agreements. Includes costs for Master Cooperative Agreements after approval by agencies.

APPENDIX

LIST OF ACRONYMS

CCTV CD CDFG CEQA CM CMAC CMIA CMS CN CO COE COLA CPM CPUC CR CTC D-B D-B-B DD DEIR DB DB-B-B DD DEIR DR DEIR DR DEIR FEIR FHWA FIS FOCT FTE GDSR GSA GSRD	American Recovery & Reinvestment Act Automated Work Zone Information Systems Computer Aided Drafting and Design California Department of Transportation Closed Circuit Television Calendar Day California Department of Fish and Game California Environmental Quality Act Construction Manager Congestion Mitigation Air Quality Cash Management Improvement Act Changeable Message Signs Change Notice Change Order Corps of Engineers City Of Los Angeles Critical Path Method California Public Utilities Commission Camera Ready California Transportation Commission Design-Build Design-Bid-Build Design Development Draft Environmental Impact Report Deficiency Report Department of Water and Power Environmental Impact Report Environmental Impact Report Final Environmental Impact Report Federal Highway Administration Financial Information System Fiber Optics Cable Transmission System Fiber Optics Cable Transmission System Full Time Equivalent Geotechnical Design Summary Report General Services Administration Gross Solids Removal Devices
GDSR	Geotechnical Design Summary Report
GSRD	Gross Solids Removal Devices
HAR HOV	Highway Advisory Radio High Occupancy Vehicle
IFB	Invitation for Bid
IPO ITS	Integrated Project Office Intelligent Transportation Systems
	5 1 7

APPENDIX

LIST OF ACRONYMS (Continued)

LA LABOE LACFCD LADOT LADPW LADWP LARTMC LFAT LNTP LONP LOP MCA METRO MIS MOT MPSR MSE MVDS MVP MWD	Los Angeles Los Angeles Bureau of Engineering Los Angeles County Flood Control District Los Angeles Department of Transportation Los Angeles Department of Public Works Los Angeles Department of Water and Power Los Angeles Regional Transportation Management Center Local Field Acceptance Test Limited Notice To Proceed Letter Of No Prejudice Life of Project Master Cooperative Agreement Los Angeles County Metropolitan Transportation Authority Major Investment Study Maintenance of Traffic Monthly Project Status Report Mechanically Stabilized Earth Microwave Vehicle Detection System Maintenance Vehicle Pullouts
N/A	Metropolitan Water District Not Applicable
NCR	Non-Conformance Report
NEPA	National Environmental Quality Act
NHS	National Highway System
NOA	Notice of Award
NTE	Not to Exceed
NTP	Notice To Proceed
NTSC P6	National Television System Committee Primavera Project Planner® (scheduling software)
PC	Project Control
PE	Preliminary Engineering
PIP	Project Implementation Plan
PM	Project Manager
PMA	Project Management Assistance
PMP	Project Management Plan
P&P	Policies & Procedures
PR	Project Report
PS&E PSR	Plans, Specs & Engineering Project Study Report
QA	Quality Assurance
QAR	Quality Assurance Report

APPENDIX

LIST OF ACRONYMS (Continued)

QC QPSR	Quality Control Quarterly Project Status Report	
RFC	Request For Change or Released for Construction (based on context)	
RFP	Request For Proposal	
RMS	Ramp Metering Systems	
ROM	Rough Order of Magnitude	
ROW	Right-Of-Way	
SIT	System Integration Testing	
RSTP	Regional Surface Transportation Program	
RWQCB	Regional Water Quality Control Board	
	Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for	
SAFETEA-LUUsers		
SCE	Southern California Edison	
SONET	Synchronous Optical Network	
SOV	Schedule Of Value	
SOW	Statement Of Work	
SP	Special Provision	
TBD	To Be Determined	
TCRP	Traffic Congestion Relief Program	
TMS/CS	Traffic Monitoring Stations/Count Stations	
TPM	Transportation Management Plan	
VE	Value Engineering	
WBS	Work Breakdown Structure	

WP Work Package