



Board Report

File #: 2016-0652, **File Type:** Oral Report / Presentation

Agenda Number: 14.

CONSTRUCTION COMMITTEE SEPTEMBER 15, 2016

RECEIVE oral report by the **Program Management Chief Officer**.

DISCUSSION

Oral Report by the Program Management Chief Officer.

ATTACHMENTS

Attachment A - Program Management Chief Officer's Report - September 2016

Prepared by:

- **Crenshaw/LAX** - Charles Beauvoir, Deputy Executive Officer, Project Mgmt., (213)299-3095
- **Regional Connector** - Gary Baker, Deputy Executive Officer, Project Mgmt., (213)893-7191
- **Westside Purple Line Ext 1 and 2-** Dennis Mori, EO Project Mgmt., (213)922-7238
- **I-405** - Nazem Moussa, Deputy Executive Officer, Project Mgmt. (213)922-7221
- **Division 13** - Timothy Lindholm, EO Project Engr., (213)922-7297
- **Patsaouras Plaza Busway Station** - Timothy Lindholm, EO Project Engr., (213)922-7297
- **MRL - MOL North Hollywood Station** - Timothy Lindholm, EO Project Engr., (213)922-7297
- **Universal Pedestrian Bridge** - Timothy Lindholm, EO Project Engr., (213)922-7297
- **Presentation** - Yohana Jonathan, Departmental System Analyst, (213)922-7592

Reviewed by:

Richard Clarke, Chief Program Management Officer, (213)922-7557

Program Management Chief Officer's Report

Project Status Report

Presented By

Richard Clarke

Chief Program Management Officer

















September 2016

Construction Committee

Los Angeles County Metropolitan Transportation Authority



PROJECT BUDGET & SCHEDULE STATUS SUMMARY CHART

Project	Cost Performance	Schedule Performance	Comments
Crenshaw/LAX			Need to conclude 96 th Street Station accommodation time impact as well as other time extensions requests from contractor.
Regional Connector			Developing schedule options with contractor; correlating cost forecast accordingly.
Westside Purple Line Extension-Section 1			Overall construction progress is 12.4% complete versus 6% planned.
Westside Purple Line Extension-Section 2			Bids received and being evaluated. FFGA expected in November 2016.
I-405 Sepulveda Pass improvements Project			Working through remaining Construction items for Final Acceptance.
Patsaouras Plaza			Project has received Caltrans encroachment permit, Right-of-Way Certification and approval of foundation design package. LADWP relocation activities started in July 2016.
Universal City Pedestrian Bridge			Construction substantially completed on April 7, 2016. Punch List and close out work is in progress.
MOL to MRL North Hollywood West Entrance			Construction is 100% complete on August 15, 2016. Punch List and Close-out work in progress

September 2016



On target



Possible problem



Major issue




Metro

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CRENSHAW/LAX TRANSIT PROJECT

 BUDGET	Current	Forecast
TOTAL COST	\$2,058M	\$2,058M

 SCHEDULE	Current	Forecast
REVENUE OPERATION	Oct 2019	Oct 2019

- Overall project progress is 52% complete.
- Contractor’s tunneling operation is 75% of the way from Expo/Crenshaw Station to Martin Luther King Jr. Station.
- Continuing Park Mesa Heights curb & gutter for street widening and early construction work.
- Finalizing cost and schedule negotiations with contractor for 96th Street Station accommodations.
- Southwestern Yard contractor continuing final design and started excavation for building foundations.



Full muck cars leaving tunnel heading



111th Bridge complete and open to traffic near LAX

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On target



Possible problem



Major issue

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REGIONAL CONNECTOR TRANSIT CORRIDOR

⚠ BUDGET		
	Current	Forecast
TOTAL COST	\$1,599M	TBD
* Includes Board approved LOP plus Planning and Finance costs.		

⚠ SCHEDULE		
	Current	Forecast
REVENUE OPERATION	May 2021	July 2021

- Overall Project Progress is 22.9%, Design Build (DB) Construction is 17.7% and DB Final Design is 93.4% complete.
- Invert slab poured and High Density Polyethylene (HDPE) waterproofing at 1st/Central underway; Installation of Level 2 Struts at the Wye began.
- Pile installation at 2nd/Broadway intersection underway; DWP Phase 2 cable pulling continues.
- Excavation of second lift at 2nd/Hope Station continues; four additional lifts remain to invert base.
- Piling behind the k-rail at 4th/Flower and between driveways continues (M-F) and in the intersection (Saturdays only). Awaiting agreement on extra working hours.
- Performing risk/contingency refresh with FTA.



Pouring mud mat at 1st/Central Station



Muck Removal at 2nd/Hope Station

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On target



Possible problem



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WESTSIDE PURPLE LINE – SECTION 1

OK BUDGET		
	Current	Forecast
TOTAL COST*	\$3,154M	\$3,154M

* Includes Board approved LOP plus Planning and Finance costs.

OK SCHEDULE		
	Current	Forecast
REVENUE OPERATION	Oct 2024 FFGA	Nov 2023

Overall Project Progress is 12.4% complete.

The Advanced Utility Relocations (AUR) work involving three contracts is nearing completion.

- The contractor for the remaining AUR contract, Wilshire/La Cienega, requested on August 15, 2016 the certificate of substantial completion. Contractor has completed the work four months prior to the contractual completion date.

Tunnels, Stations, Trackwork and Systems Design-Build Contract

- Final Design for the tunnels, three subway stations, trackwork and systems is 93% complete overall.
- The 22-weekend closures began on June 10, 2016 for the installation of deck beams and concrete deck panels prior to the Wilshire/La Brea Station excavation under the temporary street decking.
- Wilshire/Fairfax Station pile installation began in August 2016.
- Site preparation work and construction mobilization activities have begun at the Wilshire/La Cienega Station.



Installation of deck beams at Wilshire/La Brea Station



Hanging in place utilities under street decking at Wilshire/La Brea Station

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Possible problem



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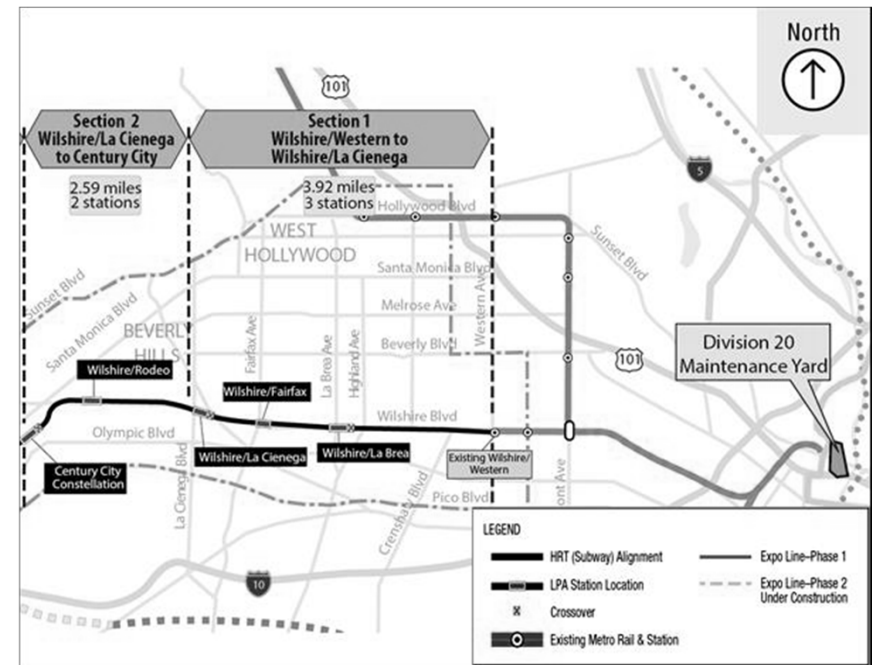
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WESTSIDE PURPLE LINE – SECTION 2

OK BUDGET		
	Current	Forecast
TOTAL COST	TBD	\$2,499M
Life-of-Project Budget is yet to be adopted. Forecast includes finance costs		

OK SCHEDULE		
	Current	Forecast
REVENUE OPERATION	TBD*	August 2025
*Subject to FTA Full Funding Grant Agreement Approval		

- Contract C1120 – Design/Build Request for Qualifications/Request for Proposal was released on September 14, 2015.
- The three teams meeting the minimum requirements as a result of the RFQ were announced on December 4, 2015.
- Price proposals received on June 1, 2016.
- FFGA anticipated approval November 2016.
- Contract award anticipated January 2017.



September 2016



On target



Possible problem



Major issue



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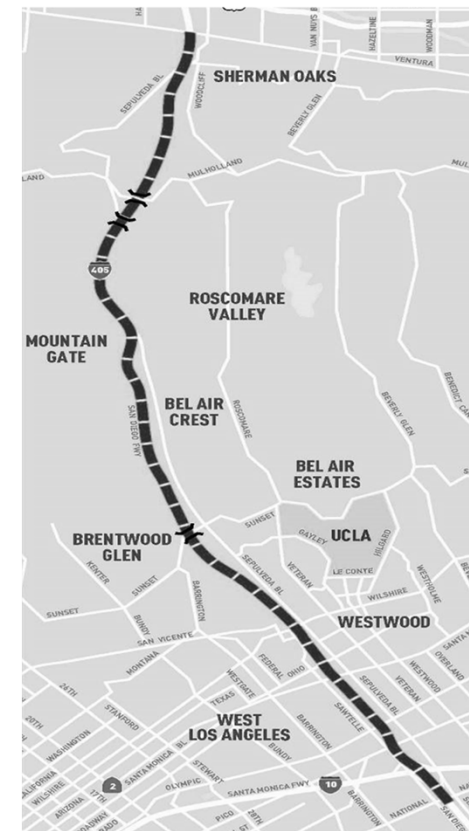
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I-405 SEPULVEDA PASS IMPROVEMENTS PROJECT

! BUDGET		
	Current	Forecast
TOTAL COST	\$1,308M	\$1,308M

OK SCHEDULE		
	Current	Forecast
SUBSTANTIAL COMPLETION	Sept 2015	Sept 2015

- Contractor is working toward Final Completion.
- Working through remaining items for Final Acceptance.
- Negotiation for Claim 86 is ongoing.
- Forecast does not include Claim 86.



September 2016



On target



Possible problem



Major issue



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PATSAOURAS PLAZA BUSWAY STATION

OK BUDGET		
	Current	Forecast
TOTAL COST	\$39.7M	\$39.7M

OK SCHEDULE		
	Current	Forecast
SUBSTANTIAL COMPLETION	Dec 2017	Dec 2017

- Caltrans has approved foundation design package, Right-of-Way Certification, Encroachment Permit, and Aerially-Deposited Lead (ADL) report.
- LADWP relocation work started July 2016 and is scheduled to be complete in August 2016.
- Work in progress includes Caltrans approval of non-aerially-deposited lead(ADL) soil investigation, hazardous materials/air monitoring work plans and bridge/station plans.
- Project completion scheduled for Winter 2017.



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UNIVERSAL PEDESTRIAN BRIDGE

OK BUDGET		
	Current	Forecast
TOTAL COST	\$29.6M	\$29.6M

OK SCHEDULE		
	Current	Forecast
SUBSTANTIAL COMPLETION	Aug 2016	Aug 2016

- The Project has been nominated as Outstanding Bridge Project of the Year by American Society of Civil Engineers.
- Punch List items and close-out process on-going.



September 2016



On target



Possible problem



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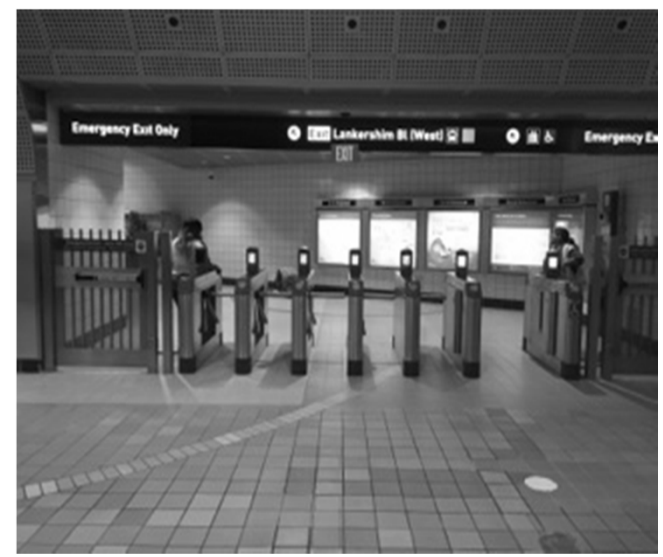
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MOL TO MRL NORTH HOLLYWOOD WEST ENTRANCE

 BUDGET	Current	Forecast
TOTAL COST	\$23M	\$23M

 SCHEDULE	Current	Forecast
SUBSTANTIAL COMPLETION	Jul 2016	Jul 2016

- Construction 100% complete.
- Ribbon Cutting occurred August 15, 2016, and project is open for customers.
- Punch List work ongoing.
- Hand over to Facilities Maintenance on-going.
- Close-out process to be initiated.



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CRENSHAW/LAX TRANSIT PROJECT DESIGN/CONSULTANT: Hatch Mott				CONSTRUCTION MANAGEMENT CONSULTANT: Stantec CONTRACTORS: Walsh-Shea Corridor Constructors (Alignment) and Hensel Phelps / Herzog (Southwestern Yard)			
PROJECT PHOTO: Crews placed the first concrete lift for a segment of the cut & cover section utilizing the traveler system and mass concrete thermal control plan.				WORK COMPLETED PAST MONTH:			
				<ul style="list-style-type: none"> o Continued tunnel segment production. o Continued TBM Mining o Continued waterproofing installation for the lower walls at the Expo Station. o Continued construction of the lower walls at Expo station. o Continued waterproofing installation for the lower walls at the MLK Station o Completed construction of the mud slab at Vernon Station. o Completed installation of the elevator casing at Vernon Station o Commenced installation of Tier 2 bracing at UG #4 o Continued demolition and replacement of curb, gutter, sidewalks and driveways at Park Mesa Heights o Continued setting the precast panels for the cantilevers at UG #3 o Completed footings at La Brea Station o Completed construction of Century bridge superstructure o Completed construction of the 111th St Bridge o Continued construction of Green Line superstructure 			
EXPENDITURE STATUS (\$ In Millions)				SCHEDULE ASSESSMENT			
ACTIVITIES	CURRENT BUDGET	EXPENDED AMOUNT	PERCENT EXPENDED	MAJOR SCHEDULE ACTIVITIES	PRIOR PLAN	CURRENT PLAN	VARIANCE WEEKS
DESIGN	\$ 136.7	\$ 121.6	88.9%	Environmental			
RIGHT-OF-WAY	\$ 127.4	\$ 120.3	94.4%	FEIS/FER	Sep-11	Sep-11	Complete
CONSTRUCTION	\$ 1,353.1	\$ 599.5	44.3%	Record of Decision	Dec-11	Dec-11	Complete
OTHER	\$ 440.8	\$ 157.3	35.7%	Design			
TOTAL	\$ 2,058.0	\$ 998.6	48.5%	Preliminary Engineering	Nov-11	Nov-11	Complete
<p>Note: Cost expended as of July 31, 2016.</p> <p>AREAS OF CONCERN</p> <ul style="list-style-type: none"> o Design-builder's ability to mitigate schedule delays. o Timely submittal of WSCC's design submittals and review by City of Los Angeles. o 96th street station accommodations cost/schedule impacts. 				Final Design	Sep-15	Aug-16	11.3 months behind
				Right-of-Way			
				Full-take parcels available	Jan-15	Jan-15	Complete
				Part-take and TCE parcels	Sep-15	Apr-16	Complete (base scope)
				Construction			
				D-B Notice to Proceed	Sep-13	Sep-13	Complete
				D-B Substantial Complete	Oct-18	Apr-19	6.2 months behind
				Revenue Service Date	Oct-19	Oct-19	On schedule*
				The D-B Substantial Complete prior plan was modified by a 35-day concurrent delay contract modification in March 2015.			
				*Note: Revenue Service Date includes a significant reduction in contingency.			
ROW ACQUISITION	PLAN	ACQUIRED	REMAINING	CRITICAL ACTIVITIES / 3 MONTH LOOK AHEAD			
FULL TAKES	37	35	2	<ul style="list-style-type: none"> o Continued construction of Manchester bridge Superstructure o TBM south bound tunnel break thru at MLK Station o Complete water proofing/ protection slab work at Leimert Park and pour box o Pour platform walls and deck at Fairview Heights station. 			
PARTIAL TAKES	27	24	3				
TEMPORARY EASEMENTS	15	13	2				
TOTAL PARCELS	79	72	7				

REGIONAL CONNECTOR TRANSIT CORRIDOR PROJECT				CONSTRUCTION MANAGEMENT CONSULTANT: ARCADIS			
DESIGN CONSULTANT: Connector Partnership JV				CONTRACTOR: Regional Connector Constructors, Joint Venture			
Excavation and Muck Removal at 2nd/Hope Station				WORK/ACTIVITY DURING PAST MONTH			
				<ul style="list-style-type: none"> - 36" water line replacement at 1st/Alameda continued - Pile installation at 1st /Alameda intersection continued - Completed SOE and station excavation at 1st/Central - Compensation grouting preparations along 2nd St. continued - TBM shaft excavation and SOE at Mangrove Yard on the 2nd lift continued - 2nd/Spring LADWP Water relocation continued - Pile installation at 2nd/Broadway continued - Water relocations along Flower Street continued - Pile installation on west side of Flower St. continued - Station box excavation and SOE continued at 2nd/Hope Station - Electrical and communication duct bank installation at 2nd/Broadway continued - Relocation/protection of power and communication assets in 2nd/Broadway Station area 			
EXPENDITURE STATUS (\$ In Millions)				SCHEDULE ASSESSMENT			
ACTIVITIES	CURRENT BUDGET	EXPENDED AMOUNT	PERCENT EXPENDED	MAJOR SCHEDULE ACTIVITIES	PRIOR PERIOD	CURRENT PLAN	VARIANCE WEEKS
DESIGN	\$132.6	\$116.7	88.0%	Environmental			
				FEIS / FEIR	N/A	04/26/12	Complete
				SEIS Flower St.	N/A	12/18/15	Complete
RIGHT-OF-WAY	\$110.5	\$68.8	62.3%	Design			
				PE Notice to Proceed	N/A	01/04/11	Complete
				Final Design complete	12/30/16	02/28/17	9
CONSTRUCTION	\$1,075.5	\$327.9	30.5%	Note: Completion of systems design is now projected for end of November 2016. No adverse impact to the overall schedule is anticipated from these design delays.			
OTHER	\$280.3	\$97.6	34.8%	Right-of-Way			
				All parcels available	08/15/18	08/15/18	0
TOTAL	\$1,598.9	\$610.9	38.2%	Note: ROW dates are adjusted to reflect the latest D/B Contractor's coordinated Need Dates. Duco Yard need date is in August 2018.			
Current Budget reflects Board approved Life-of-Project Budget and includes Finance Charges. Note: Expended amounts are through 06/30/2016.				Construction - Design / Build Contract			
				Notice to Proceed	07/07/14	07/07/14	Complete
				Construction complete	04/17/21	05/03/21	2
				Revenue Service Date	06/30/21	07/16/21*	2
				Note: *The project is reflecting an approximate seven-month delay to the RSD due to differing site conditions related to underground utilities.			
AREAS OF CONCERN				CRITICAL ACTIVITIES / 3 MONTH LOOK AHEAD			
<ul style="list-style-type: none"> - Schedule mitigation measures are being implemented across the alignment to address continuing and new delays precipitated by utility relocations. Major street and intersection closures are being coordinated with LADOT, LABOE, and Council District 14 to facilitate construction plans and schedules. Additionally, Metro and RCC are coordinating with DWP and third party utility owners on utility design and relocation issues along Flower, Broadway, Alameda and 2nd Streets to advance construction fronts at these locations. - Schedule recovery measures notwithstanding, schedule float and flexibility is minimal; opportunities for improvement continue to be reviewed. - Delays and reduced productivity along Flower St. continue to be experienced; work hour and access constraints are driving causes. - Methods of supporting the existing DWP vaults and duct banks at 6th/Flower are being investigated to minimize relocation requirements and resulting schedule. 				<ul style="list-style-type: none"> - 100% design packages for all three stations, bored tunnel, SEM cavern and systems; review of the related AFCs - Complete 36" water line at 1st/Alameda - Excavate and install walers, struts, cap beams and decking for Wye - Install deck beams at 2nd/Broadway intersection - Decking installation on Flower, north of 5th St. - Tie-back removal pit activities to be initiated - Secure Sunday work variance for Flower St operations - Resolve Fire Life Safety (FLS) issues including emergency ventilation design and egress - Reconcile path-forward for schedule and costs 			
ROW ACQUISITION	PLAN	CERTIFIED	ACQUIRED	REMAINING			
PERMANENT PARCEL	5	5	4	1*			
TEMPORARY PARCEL	29	16	14	2*			
TOTAL PARCELS	34	21	18	3			
* Remaining parcels are scheduled in-advance of need dates.							

WEST SIDE PURPLE LINE EXTENSION SECTION 1 PROJECT DESIGN CONSULTANT: Parsons / Brinckerhoff				CONSTRUCTION MANAGEMENT CONSULTANT: WEST, a Joint Venture CONTRACTOR: Skanska, Traylor and Shea, a Joint Venture			
Temporary Street Decking Wilshire/La Brea Station				WORK COMPLETED PAST MONTH			
				<ul style="list-style-type: none"> - C1045 Wilshire/La Brea pile installation nearing completion - C1045 Decking stage 3, 4, 5, and 6 complete - C1045 North yard switch gear energized - C1045 Wilshire/Fairfax north side traffic control for piles in place - C1045 DU 5 Tunnels – AFC submittal - Telecommunications relocation work completed at Wilshire/La Cienega 			
EXPENDITURE STATUS (\$ In Millions)				SCHEDULE ASSESSMENT			
ACTIVITIES	CURRENT BUDGET	EXPENDED AMOUNT	PERCENT EXPENDED	MAJOR SCHEDULE ACTIVITIES	PRIOR PLAN	CURRENT PLAN	VARIANCE WEEKS
DESIGN	\$159.2	\$133.3	83.7%	Environmental			
				FEIS / FEIR	N/A	05/31/12	Complete
RIGHT-OF-WAY	\$175.6	\$152.0	86.5%	Design			
				PE Notice to Proceed	N/A	01/12/11	Complete
CONSTRUCTION	\$1,740.3	\$434.8	25.0%	Final Design complete	03/22/17	03/22/17	0
OTHER	\$1,079.3	\$111.3	10.3%	Right-of-Way			
TOTAL	\$3,154.4	\$831.4	26.4%	All parcels available*	12/31/15	12/31/15	0
Current Budget includes Environmental/Planning and Finance Costs.				Construction - Main Design / Build Contract			
AREAS OF CONCERN				Notice to Proceed	01/12/15	01/12/15	Complete
				Construction complete	11/08/23	11/08/23	0
				* Parcels related to main D/B Contract C1045			
ROW ACQUISITION	PLAN	AVAILABLE	REMAINING	CRITICAL ACTIVITIES / 3 MONTH LOOK AHEAD			
PERMANENT PARCELS	15	14	1	<ul style="list-style-type: none"> - C1045 DU 2 Wilshire/La Brea – AFC complete - C1045 DU 5 Tunnels – AFC complete - C1045 DU 6 Systems – 100% complete - C1045 Wilshire/La Brea Station pile installation complete - C1045 Temporary tunnel ventilation design submittals - C1045 Wilshire/La Brea decking installation continues - C1045 Wilshire/La Brea Station excavation begins - C1045 Wilshire/Fairfax pile installation begins - C1045 Wilshire/La Cienega AUR substantial completion - SCE to begin cable pulling and splicing work at Wilshire/La Cienega - C1078 Complete site utilities and building foundation 85% design - LADWP Power to complete relocations at Wilshire/Fairfax 			
TEMPORARY PARCELS	4	4	0				
TOTAL PARCELS	19	18	1				