

Phase 2 Exposition Metro Line Project

Monthly Project Status Report

January 2014





TABLE OF CONTENTS

PHASE 2 EXPO LINE PROJECT STATUS

TABLE OF CONTENTS.....	2
Phase 2 Exposition Metro Line Construction Authority Project Description.....	3
Phase 2 Exposition Metro Line Construction Authority Culver City to Santa Monica Segment	4
Project Management Issues	4
Key Activities Completed this Period.....	6
Key Future Activities.....	7
Phase 2 Exposition Metro Line Construction Authority Schedule Status.....	8
Critical Path Schedule	8
Schedule Narrative.....	10
Phase 2 Exposition Metro Line Construction Authority Financial Status	11
Project Cost Status and Analysis	11
Expo Baseline Activities.....	12
Metro Baseline Activities - Vehicles	13
Non-Baseline Activities	14
Phase 2 Exposition Metro Line Construction Authority Contract Status.....	15
Expo Phase 2 Design-Build Contract Status	15
Expo Phase 2 VBU Design-Build Contract Status.....	16
Expo Phase 2 OMF Contract Status	17
Expo Phase 2 Bikeway Contract Status	18



Phase 2 Exposition Metro Line Construction Authority Project Description

The Expo Phase 2 Project is located in the Westside of Los Angeles, extending approximately seven miles from the Expo Phase 1 terminus at Culver City Station to Santa Monica. The Phase 2 alignment begins at the terminus of Expo Phase 1 and utilizes the existing Exposition Right-of-Way (ROW), then diverges from the Exposition ROW and enters onto Colorado Avenue east of 17th Street. The alignment follows the center of Colorado Avenue to the proposed terminus in downtown Santa Monica in the vicinity of the intersection of 4th Street and Colorado Avenue.



Figure 1: Exposition Metro Line Construction Authority Phase 2 Alignment



Phase 2 Exposition Metro Line Construction Authority Culver City to Santa Monica Segment

Project Management Issues

Utility Relocations

The Authority worked closely with the Los Angeles Department of Water and Power (LADWP) and Southern California Edison (SCE) to advance the power relocations required to accommodate the Project. The Authority also worked with multiple communications providers, Southern California Gas Company (SCG) and ExxonMobil to advance the relocation of their facilities.

- LADWP crews continued to remove overhead power line conflicts with the proposed project aerial structures; multiple LADWP construction crews continued relocating remaining overhead power lines underground. LADWP continued to finalize new power service designs for traction power substations, irrigation controllers, passenger stations, traffic signals, crossing gates, bike path lighting and street lights. LADWP began installation of new power services to energize future railroad crossing gates.
- LADWP began construction to provide new power service for the Sepulveda parking garage in order to obtain a temporary certificate of occupancy for LADOT parking enforcement vehicles. Various communication providers continued relocating their remaining facilities in conflict with proposed project structures.
- ExxonMobil began removing the existing underground pipeline in conflict with SCE's proposed transmission facilities along the east side of Sepulveda Boulevard. Existing SCG pipeline in conflict with SCE transmission facilities is scheduled to be removed after ExxonMobil completes their removal work on February 14, 2014.
- Staff continued working with SCE to complete the remaining new power service designs and begin their construction. Ongoing SCE work includes installing engineered steel poles and their foundations, a small amount of remaining duct banks, vaults, electrical equipment, pulling new cable, and energizing the new underground distribution and transmission systems. The Authority and SCE continued discussions regarding cost sharing for SCE betterments.

SCE power line relocations on Colorado are on the Project schedule's critical path. The Authority, the City of Santa Monica, SCE, and the Design-Build contractor continue to collaborate through Partnering sessions, staff level working meetings, and executive management meetings to recover schedule on Colorado, such as: working with the City to optimize traffic control in order to increase working hours and days and hours, adding crews, increasing SCE inspection staff availability, re-phasing installation of track across multiple at-grade crossings simultaneously, working longer shifts, scheduling multiple power outages simultaneously, and continuous active coordination with SCE and the contractor design-builder's construction activities.

City of Los Angeles

In the City of Los Angeles, schedule near-critical activities include design approvals, relocation of utilities and removal of the temporary parking lot near Sepulveda structure/station which depend on receiving City approval for occupancy of the new Sepulveda Garage which is imminent; and installation of underground and overhead facilities. Four of the five civil segments have been approved by the Los Angeles Bureau of Engineering with various elements pending final confirmations from the various other City bureaus. The Authority is collaborating with the City of Los Angeles to approve the final civil segment. Expo and the City are exploring an option to accommodate bikepath reconfiguration requests at the intersection of Exposition and Centinela. The Authority has also received a letter from the Contractor identifying design costs and delays due to additional review and coordination with the City of Los Angeles Bureaus.



City of Santa Monica

In the City of Santa Monica, the schedule critical path includes SCE relocations on Colorado; the critical path continues with the installation of trackwork followed by the installation and testing of the overhead catenary and train control systems. SRJV is working on a schedule for track work road crossings. The Design-Build contractor completed construction of the rail crossing work at Colorado and 5th Street. The crossing was constructed during a 10-day closure of the Colorado Avenue and 5th Street intersection from January 18th- 28th. The Colorado Avenue and Lincoln Bl rail crossing installation is scheduled for April 2014. The Authority is collaborating with the City of Santa Monica to resolve issues including lighting betterments, terminus station betterments, street running operations, temporary street closures for construction, and bikeway-related details.

Venice Boulevard Underpass (VBU)

The VBU Design-Build contractor completed constructing the elements supported on the bridge (standpipe, cable railing, and emergency walkway lighting). Current projections show the VBU contractual Substantial Completion will be delayed due to delays in the relocation of a sanitary sewer line and relocation of overhead power communication lines. Workarounds have been implemented to avoid impacts to the overall Phase 2 Project completion date.

The Venice Boulevard roadway widening work will be eliminated from the VBU contract and completed as an independent construction package. This will allow the Authority to continue to work on securing third party approvals for the revised roadway plans (limits of the widening at National/Venice intersection and modifications at the Venice/Robertson intersection). The VBU Design-Build contractor will complete all work associated with the bridge in February 2014.

Operations and Maintenance Facility (OMF)

The Authority and Contractor continued with advancement of submittals and RFIs. Executive and General level partnering sessions were held January 28, 2014. Authority and OMF contractor held coordination meetings to discuss scope and schedule impacts for contract changes regarding the TPSS/Generator and Vital Train Control. Negotiations for these changes continue to be a high priority.

Bikeway

Staff continues to work on bikeway related topics, which include Exposition/Centinela intersection configuration; OMF driveway interface; and the License agreement between City of Los Angeles and Metro. The Authority continued working with CPUC, City of Santa Monica and SRJV to revise the design of bike crossings at 19th, 20th, and Stewart Streets for CPUC approval. Completing the work within the current budget is a concern given the potential scope growth however staff are monitoring the budget and will continue to do so.



Key Activities Completed this Period

Phase 2 Design-Build contractor, Skanska/Rados (SRJV)

- SRJV advanced remaining design elements. Staff worked with SRJV to resolve open issues.
- SRJV continued construction activities:
 - performed excavation and grading to support guideway construction activities;
 - prepared to install the GERB floating slab east of Stewart;
 - installed wet utilities and installed dry utility duct banks/vaults on behalf of SCE (Bundy, Colorado);
 - installed CS duct banks/manholes;
 - installed guideway ballast curb;
 - advanced TPSS site work (TPSS1, TPSS2, TPSS3, TPSS4, TPSS6);
 - advanced retaining walls (National to Clarington, Putney to Overland), soundwalls (I-10 to Overland), and MSE walls (Pico West, Bundy East, Bundy to Centinela, Centinela to Stewart, Olympic to 20th);
 - advanced bridges (Palms, Motor, Sepulveda, Pico, Bundy, Centinela, Olympic);
 - advanced stations (Westwood/Rancho Park, 26th St/Bergamot);
 - widened roadway (Colorado 14th – 17th);
 - Sepulveda Parking structure: Install electrical facilities, elevator and landscaping.
- SRJV advanced construction submittals and requests for information; Authority staff reviewed.
- SCE, DWP, and communications providers continued to relocate facilities.

Venice Boulevard Underpass Design-Build contractor, Balfour Beatty (BBII)

- Completed installation of the emergency walkways, and began installation of the standpipe, lighting, cable railing, and construction of 8" water line.
- Culver City Station Plaza design is currently under review.
- Roadway work is on hold pending revisions of the design and third party approval.

Operations and Maintenance Facility, Kiewit Building Group (KBG)

- Sanitary sewer tie-in on Stewart Street, continue construction of sewer on Stewart.
- Install oil/water separator.
- Traction and Communication ductbank/MHs installation.
- Construction of wheel press pit.
- Construction of wash pit slab and walls.
- Construction of S&I pit 1, pit 2, and pit 3.
- Removal of unforeseen pipe.
- Track turnout fabrication commenced.

Bikeway

- SRJV advanced final Bikeway design.
- Final design is in progress –100% plans will be submitted to the City of Los Angeles and the City of Santa Monica in February/March 2014.
- CPUC coordination and compliance for mid-block bikeway crossings in City of Santa Monica.



Key Future Activities

Phase 2 Design-Build contractor, Skanska/Rados (SRJV)

- SRJV advance remaining design elements. Metro, Authority, and third party staff will continue to work with SRJV to resolve comments and open issues.
- SRJV will continue the following construction activities:
 - perform excavation and grading to support guideway construction activities;
 - install GERB floating slab east of Stewart;
 - install wet utilities and dry utility duct banks/vaults on behalf of SCE;
 - install CS duct banks/manholes;
 - install guideway ballast curb and subballast;
 - install track underdrain;
 - advance TPSS site work;
 - advance retaining walls, soundwalls, and MSE walls;
 - advance bridges;
 - advance stations;
 - widen roadway;
 - weld rail;
 - advance the Sepulveda Parking structure.
- SCE, DWP, and communications providers continue to relocate facilities.

Venice Boulevard Underpass Design-Build contractor, Balfour Beatty (BBII)

- BBII to complete all bridge construction activities and demobilize from job site.
- Roadway work is on hold pending revisions of the design and third party approval.

Operations and Maintenance Facility contractor, Kiewit Building Group

- Begin pressurized water site utilities.
- Tie in water and fire at mains on Stewart and Centinela.
- Continue TP and communications ductbanks.
- Continue construction of S&I Pits and waterproofing of S&I pit walls.
- Continue building spread footings/grade beams.
- Install caissons for vehicle lifts.
- Place Concrete for Wash Bldg sump pit walls.
- CWPs- Radiant underslab heating, OCS foundations, and Structural Steel.

Bikeway

- SRJV advance final Bikeway design.

General

- Continue coordination with the Cities of Los Angeles and Santa Monica, Metro, and Caltrans.
- Continue coordination with Department of Toxic Substances Control (DTSC) to advance soil management plan.
- Facilitate Partnering derivative sessions regarding systems implementation.
- Facilitate Fire Life Safety Committee meetings/workshops.
- Facilitate Phase 2 Update meetings with the community.
- Continue FEIR mitigation measures.

**EXPOSITION METRO LINE
CONSTRUCTION AUTHORITY**
Monthly Phase 2 Project Status Report
Period Ending – January 31, 2014



Phase 2 Exposition Metro Line Construction Authority Schedule Status

Expo LRT Phase 2 - January 2014		EXPO2-Monthly Report-FTA CODES			19-Feb-14 12:02											
Activity Name	Orig. Dur.	Start	Finish	2013 2014 2015 2016												
				Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	
Expo LRT Phase 2 - January 2014	1210	04-Aug-11 A	22-May-16	[Gantt chart bars for 2013-2016]												
Milestones and Key Dates	1113	01-Sep-11 A	06-Jan-16	[Gantt chart bars for 2013-2016]												
Overall	1576	01-Sep-11 A	24-Dec-15	[Gantt chart bars for 2013-2016]												
Expo2 Duration to ROD (1520 + 167)	1520	01-Sep-11 A	10-Jul-15	[Gantt chart bars for 2013-2016]												
Schedule Contingency	167	11-Jul-15	24-Dec-15	[Gantt chart bars for 2013-2016]												
Design/Build Contract SRJV	229	23-May-15	06-Jan-16	[Gantt chart bars for 2013-2016]												
Design-Build Contract- 2011 Rain Allowance	0	23-May-15	23-May-15	[Gantt chart bars for 2013-2016]												
Design-Build Contract- 2012 Rain Allowance	0	23-May-15	23-May-15	[Gantt chart bars for 2013-2016]												
Design-Build Contract- 2013 Rain Allowance	0	23-May-15	23-May-15	[Gantt chart bars for 2013-2016]												
Design-Build Contract - 2014 Rain Allowance	28	23-May-15	19-Jun-15	[Gantt chart bars for 2013-2016]												
Design-Build Contract- 2015 Rain Allowance	20	20-Jun-15	09-Jul-15	[Gantt chart bars for 2013-2016]												
Design-Build Contract- Substantial Completion [Day Zero + 1520]	0		10-Jul-15*	[Gantt chart bars for 2013-2016]												
Design-Build Contract - Punchlist Completion (Substantial Completion + 90)	0		08-Oct-15	[Gantt chart bars for 2013-2016]												
Design-Build Contract - Final Acceptance (Punchlist Completion + 90)	0		06-Jan-16*	[Gantt chart bars for 2013-2016]												
Venice Boulevard Bridge (BBI)	0	02-May-14	02-May-14	[Gantt chart bars for 2013-2016]												
VBU - Design-Build Contract Substantial Completion	0		02-May-14*	[Gantt chart bars for 2013-2016]												
Maintenance Facility Contract	0	27-Mar-15	27-Mar-15	[Gantt chart bars for 2013-2016]												
Maintenance Facility - Final Acceptance	0		27-Mar-15*	[Gantt chart bars for 2013-2016]												
Bike Path	0	10-Jul-15	10-Jul-15	[Gantt chart bars for 2013-2016]												
Bike Path - Substantial Completion	0		10-Jul-15	[Gantt chart bars for 2013-2016]												
Owner Furnished Equipment	407	19-Aug-13 A	31-Mar-15	[Gantt chart bars for 2013-2016]												
TPSS	65	28-Feb-14	02-Jun-14	[Gantt chart bars for 2013-2016]												
Traction Power Substation # 1 (Clarington)	0		28-Feb-14*	[Gantt chart bars for 2013-2016]												
Traction Power Substation # 2 (Overland)	0		14-Mar-14*	[Gantt chart bars for 2013-2016]												
Traction Power Substation # 6 (Cloverfield)	0		01-Apr-14*	[Gantt chart bars for 2013-2016]												
Traction Power Substation # 3 (Sepulveda)	0		01-Apr-14*	[Gantt chart bars for 2013-2016]												
Traction Power Substation # 5 (Yard)	0		01-Apr-14*	[Gantt chart bars for 2013-2016]												
Traction Power Substation # 4 (Barrington)	0		01-May-14*	[Gantt chart bars for 2013-2016]												
Traction Power Substation # 7 (17th)	0		01-May-14*	[Gantt chart bars for 2013-2016]												
Traction Power Substation # 8 (5th)	0		02-Jun-14*	[Gantt chart bars for 2013-2016]												
Artwork	407	19-Aug-13 A	31-Mar-15	[Gantt chart bars for 2013-2016]												
Owner Furnished Items - artwork	407	19-Aug-13 A	31-Mar-15	[Gantt chart bars for 2013-2016]												
Design/Build Construction	5	04-Aug-11 A	28-Feb-14	[Gantt chart bars for 2013-2016]												
Final Design	5	04-Aug-11 A	28-Feb-14	[Gantt chart bars for 2013-2016]												
SRJV	5	04-Aug-11 A	28-Feb-14	[Gantt chart bars for 2013-2016]												
Wet Utilities Design Packages	5	04-Aug-11 A	12-Feb-14	[Gantt chart bars for 2013-2016]												
Roadway Design Packages	5	04-Aug-11 A	12-Feb-14	[Gantt chart bars for 2013-2016]												
Traffic Signal Design Packages	5	08-Aug-11 A	28-Feb-14	[Gantt chart bars for 2013-2016]												
Construction	768	01-Dec-11 A	29-May-15	[Gantt chart bars for 2013-2016]												
Sitework and Special Conditions	676	01-Dec-11 A	07-Jan-15	[Gantt chart bars for 2013-2016]												
SRJV	676	01-Dec-11 A	07-Jan-15	[Gantt chart bars for 2013-2016]												
SEGMENT 1 - SITEWORK AND SPECIAL CONDITIONS-INITIAL SITEWORK	242	01-Dec-11 A	06-Jun-14	[Gantt chart bars for 2013-2016]												
SEGMENT 2 - SITEWORK AND SPECIAL CONDITIONS-SITEWORK	383	05-Mar-12 A	22-Jul-14	[Gantt chart bars for 2013-2016]												
SEGMENT 3 - COLORADO SITEWORK AND SPECIAL CONDITIONS-COLORADO 9TH TO 17TH STI	322	29-Mar-12 A	05-Mar-14	[Gantt chart bars for 2013-2016]												
SEGMENT 3 - CENTINELA TO 17TH - SITEWORK AND SPECIAL CONDITIONS-INITIAL SITEWORK	388	08-Jun-12 A	18-Apr-14	[Gantt chart bars for 2013-2016]												
SEGMENT 3 - COLORADO SITEWORK AND SPECIAL CONDITIONS-COLORADO 4TH TO 9TH STR	494	21-Jun-12 A	08-Jul-14	[Gantt chart bars for 2013-2016]												
SEGMENT 3 - CENTINELA TO 17TH - SITEWORK AND SPECIAL CONDITIONS-STREET IMPROVE	134	03-Feb-14	11-Aug-14	[Gantt chart bars for 2013-2016]												
SEGMENT 1 - SITEWORK AND SPECIAL CONDITIONS-STREET IMPROVEMENTS	174	03-Feb-14	07-Oct-14	[Gantt chart bars for 2013-2016]												
SEGMENT 2 - SITEWORK AND SPECIAL CONDITIONS-STREET IMPROVEMENTS	237	03-Feb-14	07-Jan-15	[Gantt chart bars for 2013-2016]												
SEGMENT 3 - SITEWORK AND SPECIAL CONDITIONS-STREET IMPROVEMENTS COLORADO N 4	60	26-Sep-14	19-Dec-14	[Gantt chart bars for 2013-2016]												
VBU	65	03-Feb-14	02-May-14	[Gantt chart bars for 2013-2016]												
VBU - PLAZA CONSTRUCTION	55	03-Feb-14	18-Apr-14	[Gantt chart bars for 2013-2016]												
VBU - ROADWAY CONSTRUCTION	65	03-Feb-14*	02-May-14	[Gantt chart bars for 2013-2016]												
Guideway and Track Elements	475	02-Aug-12 A	25-Sep-14	[Gantt chart bars for 2013-2016]												
SRJV	475	02-Aug-12 A	25-Sep-14	[Gantt chart bars for 2013-2016]												
SEGMENT 2 - GUIDEWAYS AND TRACKS	442	02-Aug-12 A	29-Jul-14	[Gantt chart bars for 2013-2016]												
SEGMENT 1 - GUIDEWAYS AND TRACKS	379	04-Sep-12 A	01-Apr-14	[Gantt chart bars for 2013-2016]												

█ Remaining Level of ...
█ Actual Level of Effort

EXPO 2 CONTROL SCHEDULE
January 2014

D..	Revision	C..	A..

**EXPOSITION METRO LINE
CONSTRUCTION AUTHORITY**
Monthly Phase 2 Project Status Report
Period Ending – January 31, 2014



Critical Path Schedule Continued

Expo LRT Phase 2 - January 2014		EXPO2-Monthly Report-FTA CODES			19-Feb-14 12:02											
Activity Name	Orig Dur.	Start	Finish	2013		2014			2015			2016				
				Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q		
SEGMENT 3 - SEGMENT 3 - CENTINELA TO 17TH - GUIDEWAYS AND TRACKS	345	06-Sep-12 A	29-Apr-14	[Gantt bar: 06-Sep-12 to 29-Apr-14]												
SEGMENT 3 - COLORADO GUIDEWAYS AND TRACKS	215	13-Aug-13 A	25-Sep-14	[Gantt bar: 13-Aug-13 to 25-Sep-14]												
VBU	79	28-Aug-13 A	14-Feb-14	[Gantt bar: 28-Aug-13 to 14-Feb-14]												
VBU - CONSTRUCT BRIDGE EMERGENCY WALKWAYS, CABLE RAILINGS AND DUCTBANK	79	28-Aug-13 A	14-Feb-14	[Gantt bar: 28-Aug-13 to 14-Feb-14]												
Stations	710	08-Feb-12 A	06-May-15	[Gantt bar: 08-Feb-12 to 06-May-15]												
SEGMENT 2 - STATIONS AND PARKING	634	08-Feb-12 A	13-Jan-15	[Gantt bar: 08-Feb-12 to 13-Jan-15]												
SEGMENT 1 - STATIONS	207	21-Jan-13 A	15-Sep-14	[Gantt bar: 21-Jan-13 to 15-Sep-14]												
SEGMENT 3 - COLORADO TERMINUS STATION	481	19-Mar-13 A	08-May-15	[Gantt bar: 19-Mar-13 to 08-May-15]												
SEGMENT 3 - SEGMENT 3 - CENTINELA TO 17TH - STATIONS	335	10-Apr-13 A	28-Jan-15	[Gantt bar: 10-Apr-13 to 28-Jan-15]												
Support Facilities and Yards	450	04-Jun-13 A	27-Mar-15	[Gantt bar: 04-Jun-13 to 27-Mar-15]												
Rail Operation and Maintenance Facility (OMF)	450	04-Jun-13 A	27-Mar-15	[Gantt bar: 04-Jun-13 to 27-Mar-15]												
Maintenance Facility - Construction	377	04-Jun-13 A	30-Dec-14	[Gantt bar: 04-Jun-13 to 30-Dec-14]												
Maintenance Facility - Commissioning Move In	62	31-Dec-14	27-Mar-15	[Gantt bar: 31-Dec-14 to 27-Mar-15]												
Systems	261	02-Apr-14	09-Apr-15	[Gantt bar: 02-Apr-14 to 09-Apr-15]												
SEGMENT 1 - SYSTEMS AND EQUIPMENT	184	02-Apr-14	19-Dec-14	[Gantt bar: 02-Apr-14 to 19-Dec-14]												
SEGMENT 3 - SEGMENT 3 - CENTINELA TO 17TH - SYSTEMS AND EQUIPMENT	193	16-May-14	18-Feb-15	[Gantt bar: 16-May-14 to 18-Feb-15]												
SEGMENT 2 - SYSTEMS AND EQUIPMENT	155	25-Jun-14	03-Feb-15	[Gantt bar: 25-Jun-14 to 03-Feb-15]												
SEGMENT 3 - COLORADO SYSTEMS AND EQUIPMENT	173	06-Aug-14	09-Apr-15	[Gantt bar: 06-Aug-14 to 09-Apr-15]												
Testing	215	22-Jul-14	22-May-15	[Gantt bar: 22-Jul-14 to 22-May-15]												
TRAIN CONTROL LOCAL FIELD ACCEPTANCE TESTING	196	22-Jul-14	27-Apr-15	[Gantt bar: 22-Jul-14 to 27-Apr-15]												
TRAIN CONTROL INTEGRATED SYSTEM TESTING	177	15-Sep-14	22-May-15	[Gantt bar: 15-Sep-14 to 22-May-15]												
COMMUNICATIONS L LOCAL FIELD ACCEPTANCE TESTING	140	15-Oct-14	01-May-15	[Gantt bar: 15-Oct-14 to 01-May-15]												
OCS SYTEM INTEGRATED TESTING	62	02-Dec-14	27-Feb-15	[Gantt bar: 02-Dec-14 to 27-Feb-15]												
COMMUNICATIONS SYSTEM INTEGRATION TESTING	15	04-May-15	22-May-15	[Gantt bar: 04-May-15 to 22-May-15]												
Bike Path	429	30-Sep-13 A	10-Jul-15	[Gantt bar: 30-Sep-13 to 10-Jul-15]												
BIKE PATH - FINAL DESIGN	150	30-Sep-13 A	30-Apr-14	[Gantt bar: 30-Sep-13 to 30-Apr-14]												
BIKE PATH - CONSTRUCTION	304	01-May-14	10-Jul-15	[Gantt bar: 01-May-14 to 10-Jul-15]												
Start-Up	105	25-Dec-15	22-May-16	[Gantt bar: 25-Dec-15 to 22-May-16]												
Rail Activation	102	25-Dec-15	22-May-16	[Gantt bar: 25-Dec-15 to 22-May-16]												
Stress Testing	60	25-Dec-15	22-Feb-16	[Gantt bar: 25-Dec-15 to 22-Feb-16]												
System Integration Testing (60)	60	25-Dec-15	22-Feb-16	[Gantt bar: 25-Dec-15 to 22-Feb-16]												
Pre-Revenue Operations	90	23-Feb-16	22-May-16	[Gantt bar: 23-Feb-16 to 22-May-16]												
Pre-Revenue Operations (90)	90	23-Feb-16	22-May-16	[Gantt bar: 23-Feb-16 to 22-May-16]												
Revenue Service Date (ROD)	0	22-May-16*		[Gantt bar: 22-May-16* to 22-May-16*]												

█ Remaining Level of ...
█ Actual Level of Effort

EXPO 2 CONTROL SCHEDULE
January 2014

D..	Revision	C..	A..



Schedule Narrative

Critical and Near-Critical Path Analysis

Currently, the Critical Path runs through the power relocations and street improvements on Colorado in the City of Santa Monica and the Terminus Station. The Critical Path continues with the installation of Trackwork followed by the installation and testing of the Overhead Catenary and Train Control Systems. In the City of LA, the Pico bridge is near-critical.

With the current recovery plan and work-around options, the power relocation at most locations does not impact the construction of the substructure and in many cases the superstructure of the bridges. Therefore, the critical need dates for power relocations were improved and potential delays were minimized. At the Terminus, the potential delay is being eliminated by redesigning the retaining wall design to bridge over existing underground facilities.

Project Float/ Schedule Contingency

On January 5, 2012, the Board of Directors authorized the Authority to include schedule contingency in accordance with Metro’s Project Contingency procedure. At the January 9, 2014 Board Meeting half of the contingency was released. If all the revised Schedule Contingency were needed, the projected Revenue Operation Date would be May 22, 2016.

	Original Duration (days)	Days Released	Current Duration (days)
Schedule Contingency	334	167	334



Phase 2 Exposition Metro Line Construction Authority Financial Status

**Project Cost Status and Analysis
Expo/Metro Baseline**

COST REPORT BY ELEMENT
UNITS IN MILLIONS

Element	Description	Original Budget	Current Budget	Commitments	Expenditures	Current Forecast	Forecast Variance Over/<Under>
C	CONSTRUCTION	766.3	759.9	666.0	305.8	759.9	-
R	RIGHT-OF-WAY	265.0	257.6	96.7	95.0	257.6	-
V	VEHICLES	202.1	202.1	202.1	61.0	202.1	-
P	PROFESSIONAL SERVICES	148.2	149.7	98.8	76.2	149.7	-
SC	SPECIAL CONDITIONS	63.6	81.9	55.3	40.5	81.9	-
PR	PROJECT RESERVE	66.0	60.1	-	-	60.1	-
TOTAL		1,511.2	1,511.2	1,118.9	578.5	1,511.2	-

NOTE: Expenditures are Paid-to-Date through 12/31/13

Original Budget and Current Budget:

The Life of Project Budget for the Phase 2 Exposition Metro Line Project was adopted in March 2011 for a value of \$1.511 billion.

Current Forecast:

The total project forecast at completion remains the same as the current budget of \$1.511 billion.



Project Operating Budget Summary in Millions of Dollars



Expo

Sources & Uses of Funds - Phase 2
 Status as of January 31, 2014

Metro / Expo Baseline Activities

Sources of Funds (millions)	A	B	C = A - B
Source	Budget	Funding Committed	Uncommitted
Prop A 35%	\$ 238.0	\$ -	\$ 238.0
Prop C 25%	\$ 115.3	\$ 2.6	\$ 112.7
Measure R	\$ 785.4	\$ 631.3	\$ 154.1
Prop 1B Bonds - PTMISEA	\$ 48.9	\$ 48.4	\$ 0.5
Prop 1B Bonds - SLPP	\$ 28.3	\$ 28.4	\$ -
Regional Improvement Program (State)	\$ 47.8	\$ 29.0	\$ 18.8
Local Agency Contribution	\$ 45.3	\$ 45.3	\$ 0.0
	\$ 1,309.1	\$ 785.0	\$ 524.2
Total Sources:	\$ 1,309.1	\$ 785.0	\$ 524.2

Uses of Funds by Element (millions)	A	B	C	D = A - B
Element	Budget	Committed	Paid	Uncommitted
Design-Build Corridor	\$ 594.5	\$ 549.9	\$ 287.9	\$ 44.7
Other Construction Elements	\$ 165.4	\$ 116.1	\$ 17.9	\$ 49.3
Right-of-Way	\$ 257.6	\$ 96.7	\$ 95.0	\$ 160.9
Professional Services	\$ 149.7	\$ 98.8	\$ 76.2	\$ 50.8
Special Conditions	\$ 81.9	\$ 55.3	\$ 40.5	\$ 26.6
Project Reserve	\$ 60.1	\$ -	\$ -	\$ 60.1
Total Uses:	\$ 1,309.1	\$ 916.8	\$ 517.5	\$ 392.3

Paid-to-Date through 12/31/13



Project Operating Budget Summary in Millions of Dollars



Expo

Sources & Uses of Funds - Phase 2

Status as of January 31, 2014

Metro / Expo Baseline Activities - Vehicles

Sources of Funds (millions)

A B C = A - B

Source	Budget	Funding Committed	Uncommitted
RSTP (Federal) for LRVs	\$ 7.7	\$ 7.7	\$ -
CMAQ (Federal) for LRVs	\$ 41.3	\$ 41.3	\$ -
Reg. Imp. Prog. (Federal) for LRVs	\$ 153.1	\$ 153.1	\$ -
	\$ 202.1	\$ 202.1	\$ -
Total Sources:	\$ 202.1	\$ 202.1	\$ -

Uses of Funds by Element (millions)

A B C D = A - B

Element	Budget	Committed	Paid	Uncommitted
Vehicles	\$ 202.1	\$ 202.1	\$ 61.0	\$ -
Total Uses:	\$ 202.1	\$ 202.1	\$ 61.0	\$ -

Paid-to-Date through 12/31/13



Project Operating Budget Summary in Millions of Dollars



*Sources & Uses of Funds - Phase 2
Status as of January 31, 2014*

Non - Baseline Activities

Sources of Funds (millions)	A	B	C = A - B	
Source	Budget	Funding Committed	Uncommitted	
Project Revenue: City of LA Betterment	\$ 5.3	\$ 5.3	\$ -	
Project Revenue: City of Santa Monica Betterment	\$ 20.1	\$ 20.1	\$ -	
Total Sources:	\$ 25.4	\$ 25.4	\$ -	

Uses of Funds by Element (millions)	A	B	C	D = A - B
Element	Budget	Committed	Paid	Uncommitted
Design-Build Betterments	\$ -	\$ -	\$ -	\$ -
Sepulveda Blvd Bridge & Aerial Station (Diff.)	\$ 5.3	\$ 5.3	\$ 2.5	\$ -
City of Santa Monica Water System Betterments	\$ 1.5	\$ 1.4	\$ 1.4	\$ 0.1
City of Santa Monica Storm Drain Laterals	\$ 0.3	\$ 0.3	\$ -	\$ -
26th Street & 17th Street Station Betterments P.E.	\$ 0.4	\$ 0.4	\$ 0.4	\$ -
26th Street & 17th Street Station Betterments Construction	\$ 9.1	\$ 6.6	\$ 3.3	\$ 2.5
4th Street Terminus Station P.E.	\$ 0.5	\$ 0.4	\$ 0.4	\$ 0.1
4th Street Terminus Station Construction	\$ 8.4	\$ 5.6	\$ 0.9	\$ 2.8
Total Uses:	\$ 25.4	\$ 19.9	\$ 8.9	\$ 5.5

Paid-to-Date through 12/31/13



Phase 2 Exposition Metro Line Construction Authority Contract Status

Expo Phase 2 Design-Build Contract Status

Expo Phase 2 Contractor: Skanska/Rados	Contract No.: XP8902-002 Status as of: 31-Jan-14																												
Progress/Work Completed: See Page 6 Areas of Concern: See Pages 4 and 5	Major Activities (In Progress): See Page 6 and 7 Major Activities Next Period: See Page 6 and 7																												
		Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs																							
	Substantial Completion	07/10/15	0	07/10/15	07/10/15	0																							
	Contract Completion	01/08/16	0	01/08/16	01/08/16	0																							
Schedule Summary: Date of Award: 05/13/11 Limited Notice to Proceed: 05/19/11 Original Contract Duration: 1700 Current Contract Duration: 1700 Elapsed Time from NTP: 989	Cost Summary: <table border="1"> <thead> <tr> <th></th> <th colspan="2" style="text-align: center;">\$ In 000's</th> </tr> <tr> <th></th> <th style="text-align: center;">Baseline Project</th> <th style="text-align: center;">Betterments/ Modifications</th> </tr> </thead> <tbody> <tr> <td>1. Award Value:</td> <td style="text-align: right;">541,651.27</td> <td style="text-align: right;">5,278.94</td> </tr> <tr> <td>2. Executed Modifications:</td> <td></td> <td style="text-align: right;">36,694.52</td> </tr> <tr> <td>3. Approved Change Orders:</td> <td style="text-align: right;">2721.40</td> <td></td> </tr> <tr> <td>4. Current Contract Value (1 + 2 + 3):</td> <td style="text-align: right;">544,372.67</td> <td style="text-align: right;">41,973.46</td> </tr> <tr> <td>5. Pending Changes:</td> <td style="text-align: right;">41.98</td> <td style="text-align: right;">147.07</td> </tr> <tr> <td>6. Incurred Cost:</td> <td style="text-align: right;">297,407.29</td> <td style="text-align: right;">25,888.02</td> </tr> </tbody> </table>						\$ In 000's			Baseline Project	Betterments/ Modifications	1. Award Value:	541,651.27	5,278.94	2. Executed Modifications:		36,694.52	3. Approved Change Orders:	2721.40		4. Current Contract Value (1 + 2 + 3):	544,372.67	41,973.46	5. Pending Changes:	41.98	147.07	6. Incurred Cost:	297,407.29	25,888.02
	\$ In 000's																												
	Baseline Project	Betterments/ Modifications																											
1. Award Value:	541,651.27	5,278.94																											
2. Executed Modifications:		36,694.52																											
3. Approved Change Orders:	2721.40																												
4. Current Contract Value (1 + 2 + 3):	544,372.67	41,973.46																											
5. Pending Changes:	41.98	147.07																											
6. Incurred Cost:	297,407.29	25,888.02																											



Expo Phase 2 VBU Design-Build Contract Status

<p>Expo Phase 2 Contractor: Balfour Beatty Infrastructure, Inc.</p>	<p>Contract No.: XP8901-828 Status as of: 31-Jan-14</p>																																				
<p>Progress/Work Completed: See Page 6</p> <p>Areas of Concern: See Pages 4 and 5</p>	<p>Major Activities (In Progress): See Page 6 and 7</p> <p>Major Activities Next Period: See Page 6 and 7</p>																																				
		<p>Original Contract Dates</p>	<p>Time Extension</p>	<p>Current Contract</p>	<p>Forecast</p>	<p>Variance CDs</p>																															
	<p>Substantial Completion</p>	<p>07/12/13</p>	<p>116</p>	<p>11/05/13</p>	<p>11/05/13</p>	<p>0</p>																															
<p>Schedule Summary:</p> <p>Date of Award: 08/04/11</p> <p>Limited Notice to Proceed: 09/01/11</p> <p>Original Contract Duration: 680</p> <p>Current Contract Duration: 796</p> <p>Elapsed Time from NTP: 884</p>	<p>Cost Summary:</p> <table border="1"> <thead> <tr> <th colspan="2"></th> <th colspan="2" style="text-align: center;">\$ In 000's</th> </tr> <tr> <th colspan="2"></th> <th style="text-align: center;">Baseline Project</th> <th style="text-align: center;">Betterments/ Modifications</th> </tr> </thead> <tbody> <tr> <td>1. Award Value:</td> <td></td> <td style="text-align: right;">15,675.00</td> <td></td> </tr> <tr> <td>2. Executed Modifications:</td> <td></td> <td></td> <td style="text-align: right;">1,551.90</td> </tr> <tr> <td>3. Approved Change Orders:</td> <td></td> <td style="text-align: right;">598.92</td> <td style="text-align: center;">-</td> </tr> <tr> <td>4. Current Contract Value (1 + 2 + 3):</td> <td></td> <td style="text-align: right;">16,273.92</td> <td style="text-align: right;">1,551.90</td> </tr> <tr> <td>5. Pending Changes:</td> <td></td> <td style="text-align: center;">-</td> <td></td> </tr> <tr> <td>6. Incurred Cost:</td> <td></td> <td style="text-align: right;">13,612.94</td> <td style="text-align: right;">1,551.90</td> </tr> </tbody> </table>							\$ In 000's				Baseline Project	Betterments/ Modifications	1. Award Value:		15,675.00		2. Executed Modifications:			1,551.90	3. Approved Change Orders:		598.92	-	4. Current Contract Value (1 + 2 + 3):		16,273.92	1,551.90	5. Pending Changes:		-		6. Incurred Cost:		13,612.94	1,551.90
		\$ In 000's																																			
		Baseline Project	Betterments/ Modifications																																		
1. Award Value:		15,675.00																																			
2. Executed Modifications:			1,551.90																																		
3. Approved Change Orders:		598.92	-																																		
4. Current Contract Value (1 + 2 + 3):		16,273.92	1,551.90																																		
5. Pending Changes:		-																																			
6. Incurred Cost:		13,612.94	1,551.90																																		



Expo Phase 2 OMF Contract Status

<p>Expo Phase 2 Contractor: Kiewit Building Group O&M Facility</p>	<p>Contract No.: XP8902-016 Status as of: 31-Jan-14</p>																																				
<p>Progress/Work Completed: See Page 6</p> <p>Areas of Concern: See Pages 4 and 5</p>	<p>Major Activities (In Progress): See Page 6 and 7</p> <p>Major Activities Next Period: See Page 6 and 7</p>																																				
		<p>Original Contract Dates</p>	<p>Time Extension</p>	<p>Current Contract</p>	<p>Forecast</p>	<p>Variance CDs</p>																															
	<p>Substantial Completion</p>	<p>11/24/14</p>	<p>0</p>	<p>11/24/14</p>	<p>11/24/14</p>	<p>0</p>																															
<p><u>Schedule Summary:</u></p> <p>Date of Award: 05/03/13</p> <p>Limited Notice to Proceed: 06/03/13</p> <p>Original Contract Duration: 540</p> <p>Current Contract Duration: 540</p> <p>Elapsed Time from NTP: 243</p>	<p><u>Cost Summary:</u></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th colspan="2" style="text-align: center;"><u>\$ In 000's</u></th> </tr> <tr> <th colspan="2"></th> <th style="text-align: center;">Baseline Project</th> <th style="text-align: center;">Betterments/ Modifications</th> </tr> </thead> <tbody> <tr> <td>1. Award Value:</td> <td></td> <td style="text-align: right;">99,930.56</td> <td></td> </tr> <tr> <td>2. Executed Modifications:</td> <td></td> <td></td> <td style="text-align: right;">(120.47)</td> </tr> <tr> <td>3. Approved Change Orders:</td> <td></td> <td style="text-align: right;">13.07</td> <td style="text-align: center;">-</td> </tr> <tr> <td>4. Current Contract Value (1 + 2 + 3):</td> <td></td> <td style="text-align: right;">99,943.63</td> <td style="text-align: right;">(120.47)</td> </tr> <tr> <td>5. Pending Changes:</td> <td></td> <td style="text-align: center;">-</td> <td style="text-align: right;">(324.63)</td> </tr> <tr> <td>6. Incurred Cost:</td> <td></td> <td style="text-align: right;">10,862.18</td> <td style="text-align: right;">(120.47)</td> </tr> </tbody> </table>							<u>\$ In 000's</u>				Baseline Project	Betterments/ Modifications	1. Award Value:		99,930.56		2. Executed Modifications:			(120.47)	3. Approved Change Orders:		13.07	-	4. Current Contract Value (1 + 2 + 3):		99,943.63	(120.47)	5. Pending Changes:		-	(324.63)	6. Incurred Cost:		10,862.18	(120.47)
		<u>\$ In 000's</u>																																			
		Baseline Project	Betterments/ Modifications																																		
1. Award Value:		99,930.56																																			
2. Executed Modifications:			(120.47)																																		
3. Approved Change Orders:		13.07	-																																		
4. Current Contract Value (1 + 2 + 3):		99,943.63	(120.47)																																		
5. Pending Changes:		-	(324.63)																																		
6. Incurred Cost:		10,862.18	(120.47)																																		



Expo Phase 2 Bikeway Contract Status

<p>Expo Phase 2 Contractor: Skanska/Rados Bikeway Project</p>	<p>Contract No.: XP8903-01 Status as of: 31-Jan-14</p>																																		
<p>Progress/Work Completed: See Page 6</p> <p>Areas of Concern: See Pages 4 and 5</p>	<p>Major Activities (In Progress): See Page 6 and 7</p> <p>Major Activities Next Period: See Page 6 and 7</p> <table border="1" data-bbox="646 949 1505 1234"> <thead> <tr> <th></th> <th>Original Contract Dates</th> <th>Time Extension</th> <th>Current Contract</th> <th>Forecast</th> <th>Variance CDs</th> </tr> </thead> <tbody> <tr> <td>Substantial Completion</td> <td>07/10/15</td> <td>0</td> <td>07/10/15</td> <td>07/10/15</td> <td>0</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs	Substantial Completion	07/10/15	0	07/10/15	07/10/15	0																		
	Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs																														
Substantial Completion	07/10/15	0	07/10/15	07/10/15	0																														
<p><u>Schedule Summary:</u></p> <p>Date of Award: 01/27/12</p> <p>Limited Notice to Proceed: 08/28/13</p> <p>Original Contract Duration: 681</p> <p>Current Contract Duration: 681</p> <p>Elapsed Time from NTP: 157</p>	<p><u>Cost Summary:</u></p> <table border="1" data-bbox="646 1243 1505 1629"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">\$ In 000's</th> </tr> <tr> <th>Baseline Project</th> <th>Betterments/ Modifications</th> </tr> </thead> <tbody> <tr> <td>1. Award Value:</td> <td>11,041.06</td> <td></td> </tr> <tr> <td>2. Executed Modifications:</td> <td></td> <td></td> </tr> <tr> <td>3. Approved Change Orders:</td> <td>35.00</td> <td>-</td> </tr> <tr> <td>4. Current Contract Value (1 + 2 + 3):</td> <td>11,076.06</td> <td>-</td> </tr> <tr> <td>5. Pending Changes:</td> <td>-</td> <td></td> </tr> <tr> <td>6. Incurred Cost:</td> <td>2,210.70</td> <td>-</td> </tr> </tbody> </table>						\$ In 000's		Baseline Project	Betterments/ Modifications	1. Award Value:	11,041.06		2. Executed Modifications:			3. Approved Change Orders:	35.00	-	4. Current Contract Value (1 + 2 + 3):	11,076.06	-	5. Pending Changes:	-		6. Incurred Cost:	2,210.70	-							
	\$ In 000's																																		
	Baseline Project	Betterments/ Modifications																																	
1. Award Value:	11,041.06																																		
2. Executed Modifications:																																			
3. Approved Change Orders:	35.00	-																																	
4. Current Contract Value (1 + 2 + 3):	11,076.06	-																																	
5. Pending Changes:	-																																		
6. Incurred Cost:	2,210.70	-																																	