

Phase 2 Exposition Metro Line Project

Monthly Project Status Report

October 2014





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PHASE 2 EXPO LINE PROJECT STATUS

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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 complete the remaining new power service designs. Ongoing critical work includes energizing the Traction Power Substations (TPSS), installing meters, pulling cable and installation of new power services by the contractor's need date for testing purposes.

City of Los Angeles

In the City of Los Angeles (COLA), schedule critical activities include temporary traffic handling to support roadway work. The Authority is collaborating with the various COLA departments to gain approval of the last few design drawings of the Bundy Station Metro Parking reconfiguration and related street restriping requested by Los Angeles Department of Transportation (LADOT).

City of Santa Monica

Terminus property condemnation has been filed with the court, the hearing date has not yet been set.

Operations and Maintenance Facility (OMF)

The current project schedule shows Substantial Completion of the OMF in July 2015, approximately seven months late. The project latest slip is due to the damage to the train control laterals as well as delays to the procurement of long-lead electrical equipment. The OMF contractor is looking at recovery options.

Trackwork

The Skanska/Rados Joint Venture (SRJV) is approximately ten (10) weeks behind the Contract Substantial Completion date due to several factors, which include delayed site turnover to track installation subcontractor, delayed ductbank installation, and vibration mitigation design and construction. The contractor is working on a mitigation plan to eliminate or minimize these delays.



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:
 - o performed grading to support guideway construction activities;
 - o installed CS duct banks/manholes;
 - o installed OCS poles and wire;
 - o constructed station platforms and C/S rooms;
 - o installed support poles for canopies/artwork and pavers at stations;
 - o installed ballasted special trackwork, embedded trackwork (Colorado) and direct fixation trackwork on bridges and floating (GERB) slabs near Stewart and Barrington;
 - o advanced soundwalls;
 - o advanced TPSS site work (TPSS3, TPSS4, TPSS5, TPSS6, and TPSS7);
 - o advanced street improvements including street lighting and traffic signal installation; and
 - o continued train control installation.
- SRJV advanced construction submittals and requests for information; Authority staff reviewed and collaborated to resolve previously rejected submittals.
- SCE, DWP, and communications providers continued to relocate facilities and provide new service.

Venice Boulevard Underpass Design-Build contractor

- The Expo Phase 2 contractor (SRJV) continued construction of the roadway widening along the north side of Venice Boulevard.

Operations and Maintenance Facility, Kiewit Building Group (KBG)

- Site Work:
 - o continued installation of dry and wet utilities, trench drain, and OCS foundations;
 - o began sub-ballast grading in west yard;
 - o began offsite SCE ductbank layout and installation.
- Main and Secondary Building:
 - o continued the construction of grade beams, slab on grade, and slab on metal deck;
 - o finished structural steel erection and continue welding at the Secondary Building;
 - o placed topping slab in S&I pits;
 - o continued installation of precast panels and light gauge framing, sheathing, rough-in of MEP, weather barrier and spray insulation;
 - o erected solar tube supports on roof deck;
 - o continued CMU installation.
- Wash Building & Cleaning Platform:
 - o form and place concrete for the Cleaning Platform pad footings;
 - o erect structural steel and weld.

Bikeway

- SRJV advanced final Bikeway design. Bikeway Contractor worked with the COLA to resolve final comments. Right of Way / Lease modifications and utility relocations nearing completion.
- Soil mitigation completed.
- Grading, drainage, and electrical conduit installation in process.



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:
 - o advance stations;
 - o advance OCS poles and wire installation;
 - o install guideway lighting;
 - o advance canopy poles and station paver installation;
 - o advance ballasted special trackwork and embedded trackwork (Colorado);
 - o advance street improvements.
- SCE, DWP, and communication providers advance facilities relocation and provide service.

Venice Boulevard Underpass

- Processing roadway and Culver City Plaza design revision and obtain third party approval. Expo Phase 2 Contractor (SRJV) will continue work on the Venice Blvd roadway widening

Operations and Maintenance Facility contractor, Kiewit Building Group

- Continue Construction Safety Certification.
- Complete slab on grade (main building).
- Install Metal Panels, Arch Panels and Glazing.
- Install and test grounding grid.
- Set TPSS.
- Commence Special Trackwork .
- Complete HVAC duct rough-in and CMU installation.

Bikeway

- SRJV obtain complete COLA approval.
- Right of Way activities.
- Negotiate Metro/City license agreements.

General

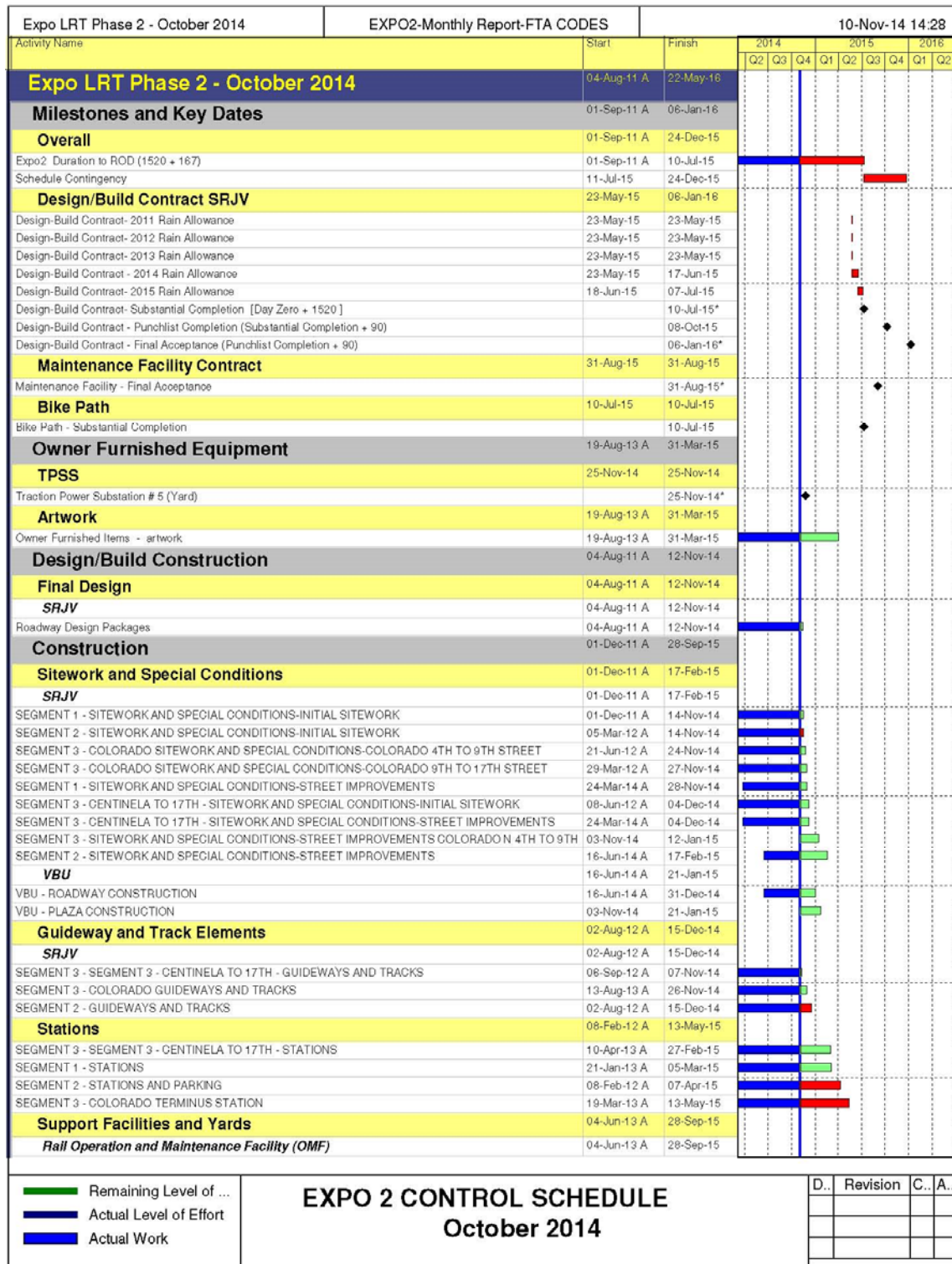
- Continue coordination with the COLA, CSM, Metro, and Caltrans.
- Facilitate Fire Life Safety Committee meetings/workshops.
- Continue FEIR mitigation measures.

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



Phase 2 Exposition Metro Line Construction Authority Schedule Status

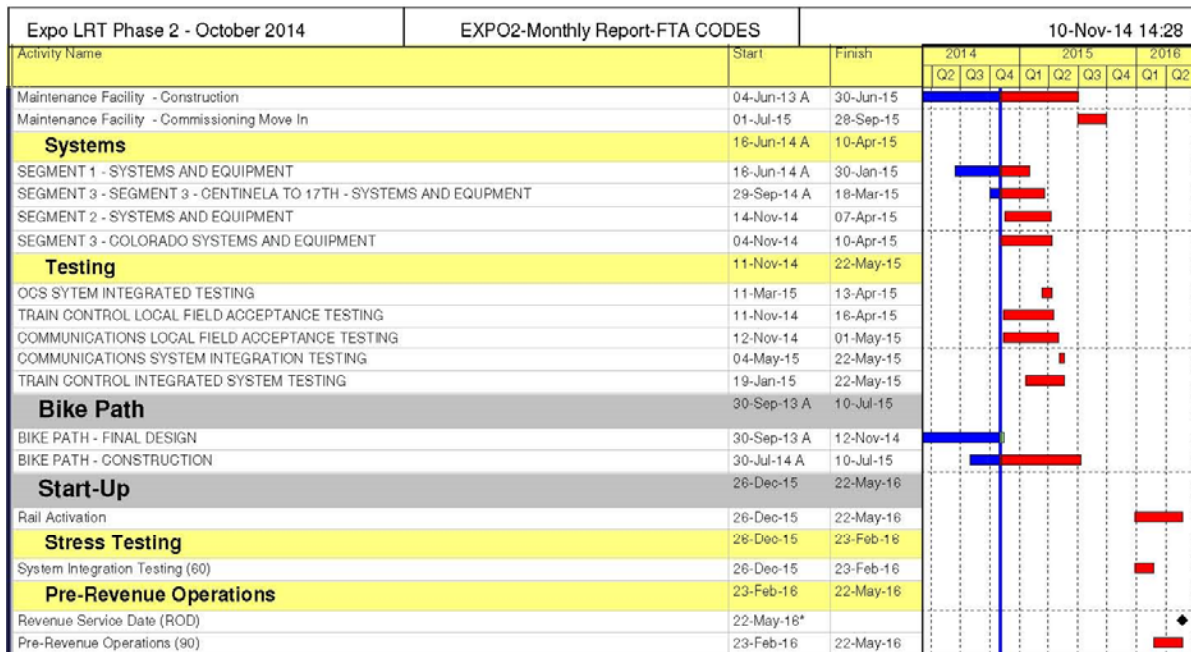
Critical Path Schedule, Period Ending October 31, 2014



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



Critical Path Schedule Continued



Remaining Level of ...
 Actual Level of Effort
 Actual Work

**EXPO 2 CONTROL SCHEDULE
October 2014**

D..	Revision	C..	A..



Schedule Narrative

Critical and Near-Critical Path Analysis

With the SCE power relocation on Colorado completed in June 2014, the Critical Path shifted to the installation of trackwork on Colorado followed by the installation and testing of the Overhead Catenary and Train Control Systems. In the City of LA, the completion of the guideway work and ductbank installation between Bundy and Centinela followed by trackwork and systems installation is near critical.

With the current recovery plan and work-around options, the power relocation at most locations did not impact the construction of the bridges. Therefore, the critical need dates for power relocations were improved and potential delays were minimized. At the Terminus, the potential delay due to utility relocation was 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 remaining 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	167



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	759.8	675.5	461.1	759.8	-
R	RIGHT-OF-WAY	265.0	257.6	115.0	113.3	257.6	-
V	VEHICLES	202.1	202.1	202.1	74.1	202.1	-
P	PROFESSIONAL SERVICES	148.2	149.7	106.1	91.2	149.7	-
SC	SPECIAL CONDITIONS	63.6	81.9	66.0	50.4	81.9	-
PR	PROJECT RESERVE	66.0	60.1	-	-	60.1	-
TOTAL		1,511.2	1,511.2	1,164.7	790.1	1,511.2	-

NOTE: Expenditures are Paid-to-Date through 9/30/14

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 October 31, 2014

Metro / Expo Baseline Activities

Sources of Funds (millions)

A

B

C = A - B

Source	Budget	Funding Committed	Uncommitted
Prop A 35%	\$ 224.0	\$ 170.3	\$ 53.7
Prop C 25%	\$ 5.8	\$ 2.6	\$ 3.2
Measure R	\$ 908.9	\$ 631.3	\$ 277.6
Prop 1B Bonds - PTMISEA	\$ 48.9	\$ 15.2	\$ 33.7
Prop 1B Bonds - SLPP	\$ 28.3	\$ 28.3	\$ -
Regional Improvement Program (State)	\$ 47.8	\$ 47.8	\$ 0.0
Local Agency Contribution	\$ 45.3	\$ 45.3	\$ 0.0
	<u>\$ 1,309.1</u>	<u>\$ 940.8</u>	<u>\$ 368.3</u>
Total Sources:	\$ 1,309.1	\$ 940.8	\$ 368.3

Uses of Funds by Element (millions)

A

B

C

D = A - B

Element	Budget	Committed	Paid	Uncommitted
Design-Build Corridor	\$ 594.5	\$ 552.8	\$ 399.5	\$ 41.7
Other Construction Elements	\$ 165.4	\$ 122.6	\$ 61.6	\$ 42.7
Right-of-Way	\$ 257.6	\$ 115.0	\$ 113.3	\$ 142.6
Professional Services	\$ 149.7	\$ 106.1	\$ 91.2	\$ 43.5
Special Conditions	\$ 81.9	\$ 66.0	\$ 50.4	\$ 15.8
Project Reserve	\$ 60.1	\$ -	\$ -	\$ 60.1
Total Uses:	<u>\$ 1,309.1</u>	<u>\$ 962.6</u>	<u>\$ 716.0</u>	<u>\$ 346.5</u>

Paid-to-Date through 9/30/14



Project Operating Budget Summary in Millions of Dollars



Expo

Sources & Uses of Funds - Phase 2

Status as of October 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	\$ 74.1	\$ -
Total Uses:	\$ 202.1	\$ 202.1	\$ 74.1	\$ -

Paid-to-Date through 9/30/14



Project Operating Budget Summary in Millions of Dollars



Expo

Sources & Uses of Funds - Phase 2

Status as of October 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	\$ 5.4	\$ 5.4	\$ -
Project Revenue: Metro	\$ 3.9	\$ 3.9	\$ -
Project Revenue: City of Santa Monica Betterment	\$ 20.1	\$ 20.1	\$ -
Total Sources:	\$ 29.4	\$ 29.4	\$ -

Uses of Funds by Element (millions)

A B C D = A - B

Element	Budget	Committed	Paid	Uncommitted
Design-Build Betterments	\$ -	\$ -	\$ -	\$ -
COLA - Sepulveda Blvd Bridge & Aerial Station (Diff.)	\$ 5.3	\$ 5.3	\$ 3.6	\$ -
COLA - Greenway Project Culvert	\$ 0.1	\$ 0.1	\$ -	\$ -
Metro - Various Betterments (Metro Board Approved 4/17/14)	\$ 3.9	\$ 1.7	\$ -	\$ 2.2
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	\$ 7.7	\$ 5.5	\$ 5.5	\$ 2.2
4th Street Terminus Station P.E.	\$ 0.5	\$ 0.4	\$ 0.4	\$ 0.1
4th Street Terminus Station Construction	\$ 8.0	\$ 5.6	\$ 4.4	\$ 2.4
CSM Cont. Release - Jacob Guard Rails, Pavers & Landscaping	\$ 1.8	\$ -	\$ -	\$ 1.8
Total Uses:	\$ 29.4	\$ 20.6	\$ 15.7	\$ 8.8

Paid-to-Date through 9/30/14



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-Oct-14					
Progress/Work Completed: See Page 5 Areas of Concern: See Page 4	Major Activities (In Progress): See Pages 5 and 6 Major Activities Next Period: See Page 6					
		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
<u>Schedule Summary:</u> 						



Expo Phase 2 VBU Design-Build Contract Status

Expo Phase 2 Contractor: Balfour Beatty Infrastructure, Inc.	Contract No.: XP8901-828					
	Status as of: 31-Oct-14					
Progress/Work Completed: See Page 5 Areas of Concern: See Page 4	Major Activities (In Progress): See Page 5 and 6					
	Major Activities Next Period: See Page 6					
		Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs
	Substantial Completion	07/12/13	116	11/05/13	11/05/13	0
<u>Schedule Summary:</u>	<u>Cost Summary:</u>					
					<u>\$ In 000's</u>	
					Baseline Project	Betterments/ Modifications
Date of Award: 08/04/11	1. Award Value:				15,675.00	
Limited Notice to Proceed: 09/01/11	2. Executed Modifications:				(1,640.84)	1,277.00
Original Contract Duration: 680	3. Approved Change Orders:				694.89	-
Current Contract Duration: 796	4. Current Contract Value (1 + 2 + 3):				14,729.05	1,277.00
Elapsed Time from NTP: 1,157	5. Pending Changes:				-	
	6. Incurred Cost:				13,959.41	1,551.90



Expo Phase 2 OMF Contract Status

Expo Phase 2 Contractor: Kiewit Building Group O&M Facility	Contract No.: XP8902-016 Status as of: 31-Oct-14																																					
Progress/Work Completed: See Page 5 Areas of Concern: See Page 4	Major Activities (In Progress): See Page 5 and 6 Major Activities Next Period: See Page 6																																					
		Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs																																
	Substantial Completion	11/24/14	158	05/01/15	05/01/15	0																																
<u>Schedule Summary:</u> Date of Award: 05/03/13 Limited Notice to Proceed: 06/03/13 Original Contract Duration: 540 Current Contract Duration: 540 Elapsed Time from NTP: 516	<u>Cost Summary:</u> <table><tr><th colspan="2"></th><th colspan="2">\$ In 000's</th></tr><tr><th colspan="2"></th><th>Baseline Project</th><th>Betterments/ Modifications</th></tr><tr><td>1. Award Value:</td><td></td><td>99,930.56</td><td></td></tr><tr><td>2. Executed Modifications:</td><td></td><td></td><td>(72.55)</td></tr><tr><td>3. Approved Change Orders:</td><td></td><td>288.32</td><td>-</td></tr><tr><td>4. Current Contract Value (1 + 2 + 3):</td><td></td><td>100,218.88</td><td>(72.55)</td></tr><tr><td>5. Pending Changes:</td><td></td><td>283.22</td><td>13.10</td></tr><tr><td>6. Incurred Cost:</td><td></td><td>49,978.95</td><td>(107.40)</td></tr></table>								\$ In 000's				Baseline Project	Betterments/ Modifications	1. Award Value:		99,930.56		2. Executed Modifications:			(72.55)	3. Approved Change Orders:		288.32	-	4. Current Contract Value (1 + 2 + 3):		100,218.88	(72.55)	5. Pending Changes:		283.22	13.10	6. Incurred Cost:		49,978.95	(107.40)
		\$ In 000's																																				
		Baseline Project	Betterments/ Modifications																																			
1. Award Value:		99,930.56																																				
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4. Current Contract Value (1 + 2 + 3):		100,218.88	(72.55)																																			
5. Pending Changes:		283.22	13.10																																			
6. Incurred Cost:		49,978.95	(107.40)																																			



Expo Phase 2 Bikeway Contract Status

Expo Phase 2 Contractor: Skanska/Rados Bikeway Project	Contract No.: XP8903-01					
	Status as of: 31-Oct-14					
Progress/Work Completed: See Page 5 Areas of Concern: See Page 4	Major Activities (In Progress): See Page 5 and 6					
	Major Activities Next Period: See Page 6					
		Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs
	Substantial Completion	07/10/15	0	07/10/15	07/10/15	0
<u>Schedule Summary:</u>	<u>Cost Summary:</u>					
					\$ In 000's	
					Baseline Project	Betterments/ Modifications
Date of Award:	01/27/12	1. Award Value:		11,041.06		
Limited Notice to Proceed:	08/28/13	2. Executed Modifications:		884.94		
Original Contract Duration:	681	3. Approved Change Orders:		112.88	-	
Current Contract Duration:	681	4. Current Contract Value (1 + 2 + 3):		12,038.89	-	
Elapsed Time from NTP:	430	5. Pending Changes:		-		
		6. Incurred Cost:		3,087.09	-	