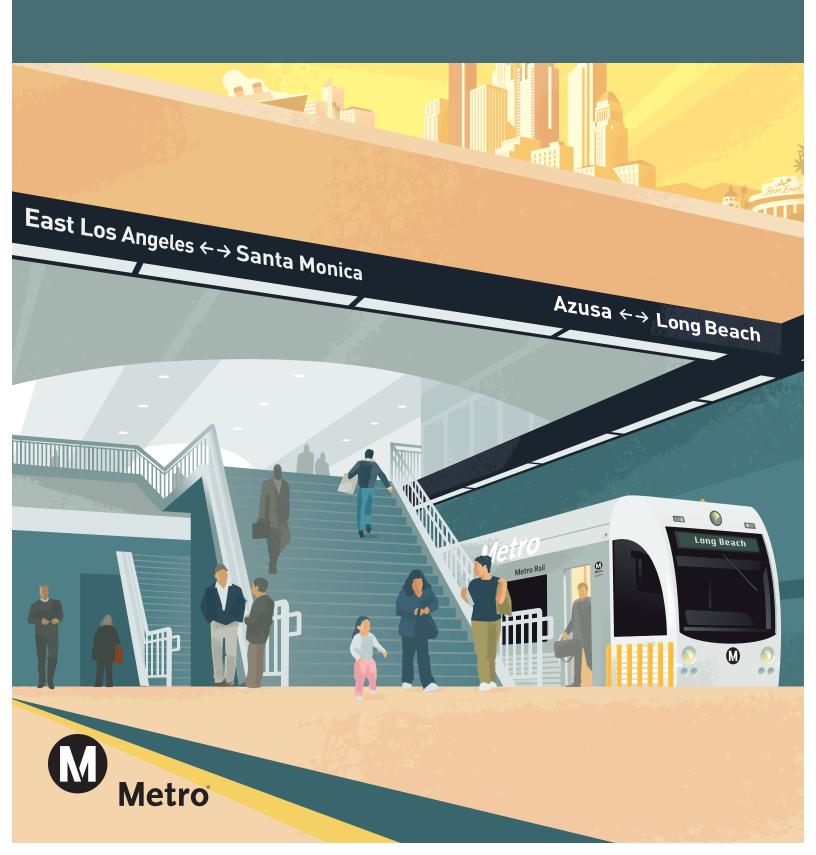
Regional Connector Transit Corridor



REGIONAL CONNECTOR TRANSIT CORRIDOR PROJECT

MONTHLY PROJECT STATUS REPORT

THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE U. S. DEPARTMENT OF TRANSPORTATION, FEDERAL TRANSIT ADMINISTRATION (FTA).

April 2017

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PROJECT SUMMARY

As of April 2017

DESIGN CONSULTANT		CORRIDOR Connector P	artners hip JV		CON STRUCTION MAN CONTRACTOR: Region		CONTRACTOR: Regional Connector Constructors, Joint Venture					
Reb	ar placeme	ent at TBM R	etrieval Shaf	t	W ORK/ACT IVIT Y DUR	ING PAST M	ONTH					
					 Tunnel mining through 'Femando' strata with increased produ as planned Completed Invert pours at 2nd/Hope Station Excavation and utility hanging at 2nd/Broadway Water and power relocation along Flower St. Utility hanging under decking on Flower St (4th St~ 5th St). Completed excavation and sub-invert at TBM retrieval shaft Pile installation at Flower south (5th St/Flower Intersection) 1st/Central Station AFC package approved 2nd/Broadway Station AFC package submitted SEM resequencing 100% package submitted 							
EXPENDITURE STATU	S (\$ In Millio	ons)			SCHEDULE A SSES SM	IENT						
		CURRENT	EXPENDED	PERCENT	MAJOR SCHEDULE	PRIOR	CURRENT	VARIANCE				
ACTIVITIES					ACTIVITIES	PERIOD	PLAN	FROM PRIOR PERIOD (Weeks				
T CICH		6440.7	64.05.0	05.0%	Environmental	N/A	Carralata					
ESIGN		\$146.7	\$125.0	85.2%	FEIS / FEIR N/A 04/26/ SEIS Flower St. N/A 12/18/			Complete				
IGHT-OF-WAY		\$120.5	\$69.7	57.8%	De sign							
					PE Notice to Proceed N/A 01/04/11			Complete				
CONSTRUCTION		\$1,164.5	\$454.1	39.0%	Final Design complete 07/17/17 07/17/17* 0 Note: No adverse impact to the overall schedule is anticipated from curre							
) THE R		\$378.5	\$116.9	30.9%	*Excluding the completion of 2nd/Hope Pedestrian Bridge Design Right-of-Way							
TOTAL		\$1,810.1	\$765.6	42.3%	All parcels available 08/15/18 08/15/18 0							
Current Budget reflect Charges. lote: Expended amou				dget and Finance	Dates. Duco Yard need	/ Build Cont	gust 2018. ract	D/B Contractor's coordinated Need				
					Notice to Proceed	07/07/14	07/07/14	Complete				
AREAS OF CONCERN					Construction complete	10/19/21	10/19/2021	0				
yield to exter Metro looks	ent will se delays and nded const to continue	rve to facilita d or disruption truction schoor collaboration	ate field proc ons to permit edules, and a on with the L	ductivity. ts will directly added costs. A Police		12/17/21	12/17/2021	0				
 permitting as Detailed des power asset 	environm may be re ign is unde s. This wor relative to ize schedu re also ant	ental require equired. erway to relo k requires c TCPs, BOB ule and cost ticipated; en	ements - to ocate the 6th collaboration E approvals, impacts. Sta gagement b	allow for timely VFlower DWP with COLA DWP efforts, akeholder	CRITICAL ACTIVITIES / 3 MONTH LOOK AHEAD CRITICAL ACTIVITIES / 3 MONTH LOOK AHEAD Review and Approval of AFC packages for 2nd/Broadway Preparation of WYE fan plant and Flower Cut & Cover 100% submittal Preparation of Civil Segment A 100% submittal Complete TBM Mining (1st Alignment Left Tunnel) Complete temp decking installation at 2nd/Broadway Complete tunnel eves installation at 2nd/Hope Station							
en ar ar ser en	PLAN	CERTIFIED	ACQUIRED	REMAINING		inal Design	for 6th/Flowe	e-in at Flower St r DWP Power Relocation				
ROW ACQUISITION								2nd/Broadway				
PERMANENT PARCELS	5	5	4	1*	Somplete S			•				
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PROJECT OVERVIEW & STATUS

The Regional Connector Transit Corridor Project (Project) will link the current terminus of the Blue and Expo Lines at 7th/Metro Center to the Gold Line near the Little Tokyo/Arts District Station in a new underground alignment along Flower Street and 2nd Street in Downtown Los Angeles. The Project has been re-sequenced to become operational in a single phase. It will link to the existing Eastside Gold Line along 1st Street and the existing Gold Line to Pasadena along Alameda Street toward Union Station. The Revenue Service Date (RSD) is planned for December 17, 2021.

The alignment will extend underground from the 7th Street/Metro Center Station under Flower Street to 2nd Street. It will then proceed east underneath the 2nd Street tunnel to just west of Central Avenue where the alignment will veer northeast under privately-held property, Japanese Village Plaza. At 1st Street and Central, the tracks continue underground heading northeast under 1st and Alameda Streets. A junction ("Wye") will be constructed beneath the 1st and Alameda intersection. To the north and east of the junction, trains will rise to the surface through two new portals to connect to the Metro Gold Line heading north to Pasadena and east to East Los Angeles. The north portal will be located northeast of the current Little Tokyo/Arts District Station and tracks. This portal will rise to the existing LRT bridge over the US-101 freeway. The portal will be connected to the 1st and Alameda Streets, running immediately east of the existing Little Tokyo/Arts District Station and tracks. The east portal will be located within 1st Street between Alameda and Vignes Streets. Tracks will rise to the east within this second portal and connect at-grade to the existing Metro Gold Line tracks toward East Los Angeles.

Major Contract Procurement

The Board authorized to solicit a major Design/Build (D/B) contract, C0980, in August 2011. Metro staff recommended to award contract C0980 to the Regional Connector Constructors (RCC), a joint venture of Skanska USA Civil West California District, Inc. and Traylor Brothers, Inc. and Metro Board authorized award of the contract on April 24, 2014; Notice to Proceed (NTP) to RCC, issued July 7, 2014. Solicitation of an Advanced Utility Relocations Contract, C0981R, completed February 2014 after Metro's Procurement team awarded the contract to Pulice Construction, Inc. in January 2014 and issued NTP on February 18, 2014. Contract C0981R was terminated for convenience on April 14, 2015 and remaining AUR work has been transferred to the C0980 D/B Contractor, RCC.

PROJECT OVERVIEW & STATUS (Cont.)

Construction

Varied operations are underway throughout the alignment to include: guideway and station box support of excavation, excavation, TBM mining, settlement monitoring instrumentation placement, and utility relocations. Operations are currently active seven days with some being performed on a multiple-shift basis.

Systems

The existing functional operations at the Rail Operations Center (ROC) necessitate an expansion to accommodate the central control functions associated with five new rail lines and extensions including the Regional Connector Transit Corridor Project. Design for the ROC Reconfiguration Project was completed to reconfigure the second floor to prepare for Expo II and Foothill Rail Line extensions, and the design will be further updated with each successive integration of the Crenshaw/LAX, Regional Connector and Purple Line projects.

Light Rail Vehicle

Four (4) Light Rail Vehicles (LRVs) for the Project will be procured and delivered by Kinkisharyo International, LLC under Contract P3010. The base contract includes 78 LRVs and options of 157 for a total of 235. The four (4) LRVs for the Regional Connector Project are currently in Option 2 of the P3010 Contract. The manufacturer continued performing qualification and post shipment tests on prototype cars 1 and 2 at LACMTA's Green Line shop.

Program Management

In January 2017, the Metro Board revised the Life of Project Budget for Regional Connector Project 860228 to \$1.756 billion. The budget for Concurrent Non-FFGA activities related to Project 861228 remains at \$39.9 million.

Funding for the Project comes from a variety of sources to include Federal New Starts, TIFIA Loan, State repayment of capital project loan, State Proposition 1B, State Proposition 1A (High Speed Rail), local agency and lease revenues, and from the Congestion Mitigation and Air Quality Improvement Program. The bulk of the funding - 56% - comes from federal sources.

PROJECT OVERVIEW & STATUS (Cont.)

Project commitments through *April* 2017 increased by \$0.5 million to \$1.42 billion or 80.1% of the Current Budget. The increase reflects RCC executed modifications. Project expenditures through *April* 2017 are \$742.9 million or 42.0% of the budget. The expenditures to date cover all cost elements including: engineering management, construction management support services, third party utility relocation work, agency administration, design build contract (C0980), right-of-way, various master cooperative agreements, and other professional services.

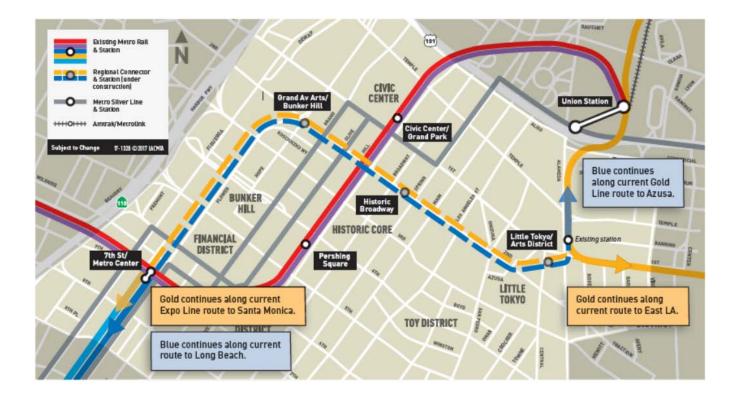
The project master schedule forecasts revenue service in 2021 through a simultaneous opening of both the Azusa and East LA legs of the Metro Gold Line.

A comprehensive risk refresh process was undertaken in late 2016 by both Metro and the FTA/PMOC to evaluate current schedule and cost forecasts. Outcomes for total project costs were compatible and contributed to establishing an increased Life of Project Budget. The Project's Risk Register is reviewed and updated monthly.

MANAGEMENT ISSUES / OPPORTUNITIES

Concern No. 1:	Plans to relocate LADWP power assets under 6 th /Flower could adversely impact project schedule and costs.
Status/Action:	Designs are underway in concert with LADWP parameters. Said designs are focused on limiting impacts to area stakeholders and traffic flow. Field investigations are also on-going in support of designs, and to advance site preparations for relocations. Close collaboration with City of LA entities and Caltrans continue. Permitting for extended 6 th Street closure near complete.
<u>Concern No. 2</u> :	Work hour variances may be denied and/or revoked with adverse impacts to productivity, schedule, and costs.
Status/Action:	Maintain strict compliance to noise and work task allowances under specific permits and/or the MMRP.
Concern No. 3:	2 nd /Broadway Station construction faces coordination challenges with adjacent developer's designs.
Status/Action:	Metro continues to work with the developer on issues and solutions related to design and construction coordination.

PROJECT ALIGNMENT



BASE PROJECT SCOPE

Engineering

This phase consists of Preliminary Engineering (PE), Advanced PE (APE) and Final Design. During PE, The Connector Partnership, a joint venture between AECOM, Inc. and Parsons Brinkerhoff (CPJV), was responsible for engineering, design, and development of fixed facilities, stations, guideways, tunnels, and related facilities for the Project to a level sufficient to provide the basis for final design. CPJV was also responsible for documentation necessary to support the Environmental Assessment process and the engineering and final design for advanced utility relocations.

Alignment modifications and Value Engineering were developed during Advanced PE to accommodate environmental mitigations and further develop the design to better accommodate rail operations and reduce the cost of the Project. PE and APE were completed in March 2013.

Final design for advanced utility relocations performed by Metro and CPJV was completed during Advanced PE and it included DWP water and power lines as well as City of LA sewer lines. AUR final design for other utilities was performed by individual utility companies. The balance of Final Design is being performed by the RCC as part of the C0980 Contract.

Metro Furnished Equipment

Metro is procuring Light Rail Vehicles and Universal Fair System (UFS) equipment. Four (4) Light Rail Vehicles for the Project will be procured and delivered by Kinkisharyo International, LLC under Option 2 of Contract P3010. The vehicles will be tested and accepted at the Gold Line Yard and put in service when the line is open for Revenue Service. UFS equipment will be designed, fabricated and installed under a Metro contract.

Construction

The scope of work in this phase is performed by third party utility companies and RCC as follows:

Third Party Advanced Utility Relocations

Several utility owners have already relocated many of their assets and will continue to do so through mid-2017. The utilities include fiber optic, telephone, cable television, electrical (power cable pulling and splicing), and natural gas lines. Utility work started in late 2012 and has progressed throughout the alignment.

BASE PROJECT SCOPE (Cont.)

Contract C0980 Regional Connector Design Builder

This is the largest contract of the project that includes: final design and construction of underground guideway; station structures; miscellaneous underground structures; trackwork; traction power; overhead conductor rail; train control; communications; and all electrical and mechanical equipment and testing. The contractor will restore the Mangrove site and impacted streets to their previous condition at the end of the project.

The design-build contractor also must meet sensitive noise and vibration standards at Disney Music Hall and the Colburn Music School, control subsidence along the alignment, and meet various other requirements for the various stakeholders along the alignment. This contract was awarded to Regional Connector Constructors, JV (RCC) on May 6, 2014 and NTP was issued July 7, 2014. Metro has exercised several contract options and has added the remaining Advanced Utility Relocation work (C0981R Contract) to the C0980 Contract.

Contract C0981R Regional Connector Advanced Utility Relocations

Metro awarded the design-bid-build Advanced Utility Relocations Contract (Metro Contract No. C0981R) to Pulice Construction, Inc. to complete specific relocations at each of the future stations and along Flower Street in advance of the main D/B Contract C0980. The relocated utilities were long-lead construction tasks that were known to conflict with cut and cover excavations.

The scope of this work included the following relocations: LADWP water lines, LADWP power lines, and City of Los Angeles sewer lines. Metro assisted the contractor in obtaining exemptions as necessary for the City of LA nighttime work as well as for Peak Hour work hours.

Contract C0981R was terminated for convenience on April 14, 2015 and all remaining work was transferred to C0980 Contract. Contract C0981R was closed out and final payment processed.

BASE PROJECT SCOPE (Cont.)

Professional Services

Contract MCO70 – Construction Management Support Services

Metro awarded the contract for Construction Management Support Services (CMSS) to ARCADIS, Inc. ARCADIS' Project Manager and other staff are co-located with Metro at the Integrated Project Management Office (IPMO) located at the Mangrove site.

Contract E0119 – Preliminary Engineering and Design Support Services During Construction

Metro awarded this contract to CPJV. CPJV provided preliminary engineering services to support the EIR/EIS, prepared project definition documents for Contract C0980, and prepared the basis for final design development for Contract C0981. CPJV is currently performing design support during construction (DSDC) for the C0980 contract.

KEY MILESTONES SIX- MONTH LOOK AHEAD

	N 411 - 4						
	Milestone Date	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17
Complete 2nd/Hope CIP Invert	04/08/17 A	\bigcirc					
LADOT Approve Flower South SOE Traffic Control Plan (East Pi	04/19/17 A	\triangle					
1st/Central Station Package - AFC Approved	04/20/17 A						
2nd/Broadway Station Package - AFC	04/20/17 A	\bigcirc					
Complete TBM Retrieval Pit Excavation/Sub-Invert	04/29/17 A	\bigcirc					
Civil Segment A (Flower to 2nd/Hope) - 100% Design	05/05/17		\bigcirc				
Complete TBM mining under Red Line tunnel	05/05/17		\bigcirc				
Complete Temp Decking on 2nd Street	05/06/17		\bigcirc				
Complete Flower St Water Line (South of 5th)	05/08/17		\bigcirc				
2nd/Broadway Station Package - AFC Approved	05/08/17						
Complete TBM Retrieval Pit Tunnel Eye	05/12/17		\bigcirc				
Civil Segment B (Broadway to 1st/Central) - 100% Design	05/19/17		\bigcirc				
Skid TBM through 2nd/Hope Station Box (1st)	05/23/17		\bigcirc				
Complete TBM Mining (1st Alignment - Left Tunnel)	06/28/17			\bigcirc			
Civil Segment A (Flower to 2nd/Hope) - AFC Approved	06/30/17						
Civil Segment B (Broadway to 1st/Central) - AFC Approved	07/17/17						
Complete TBM Removal (1st - Left)	07/20/17				\bigcirc		
Complete Storm Drain Relocation at 2nd/Broadway	07/20/17				\bigcirc		
Complete Pile Intallation on East side of Flower South	08/24/17					\bigcirc	
Complete Flower North Excavation and Support	08/25/17					\bigcirc	
Complete TBM Assembly & Launch (2nd - Right)	09/18/17						\bigcirc
MTA Staff MTA Board Action		Federal T histration)	ransit ^v	Utili	ty Compa	ny	
△ Other Agencies □ Contractors	O Design	Consulta	nt 〈	🔿 соэ	80 D/B C	ontractor	
"A" following date is actual and completed	★ New						

Regional Connector Transit Corridor Project Monthly Project Status Report

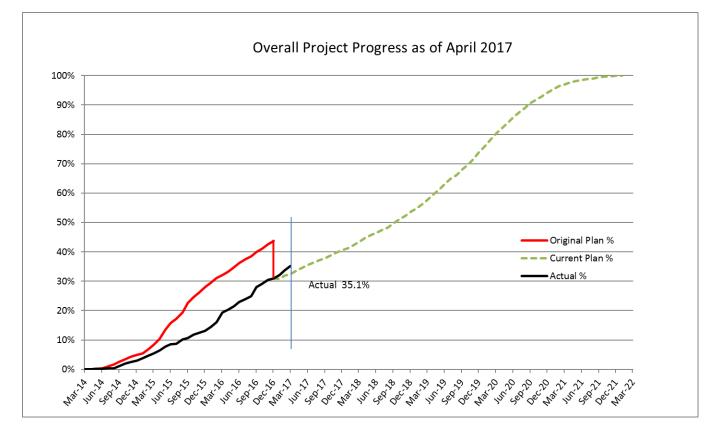
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PROJECT SUMMARY SCHEDULE

SCHEDULE MEASUREMENTS

	Status	Change from Last Period	Comment
Forecast Revenue Service	12/17/2021	<i>0</i> CD	
TIFIA Revenue Service	2/25/2023	None	
FFGA Revenue Service	2/25/2023	None	
Final Design Progress:			
Contract C0980	97.8%	0.6%	Not impacting the critical path of the project
Construction Contracts Progress:			
Contract C0981R & C0980	31.1%	1.5%	Performance forecast re-baselined

Note: Construction Progress Measurement has been modified to reflect current methodology: excluding all General Requirements, Construction Mobilization, Design Mobilization, Final Design and Provisional Sum (Schedule C). Progress values include executed modifications and change orders.



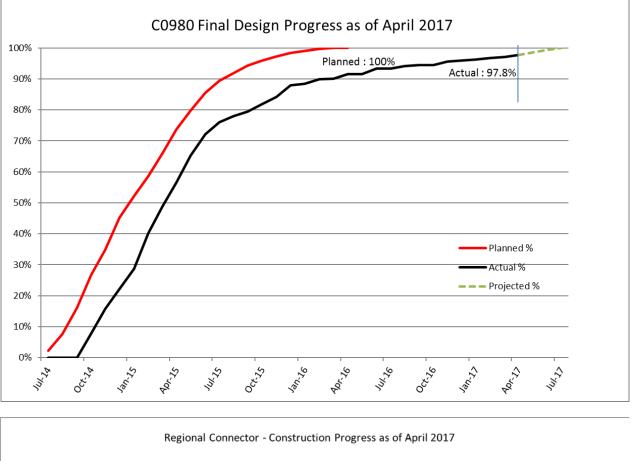
PROJECT PROGRESS STATUS

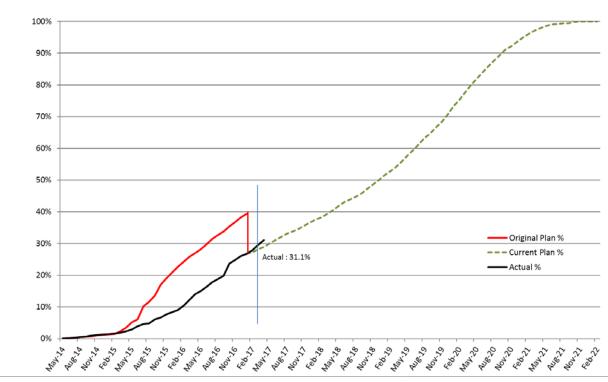
The above is based on the planned and actual progress of C0980 (Design-Build) as reflected in its re-baselined contract schedule, and the C0981 (AUR) as-built schedule.

The cumulative overall project progress is 35.1%.

Note: Overall Project Progress Measurement was modified in January 2016 to reflect current methodology: excluding all General Requirements, Construction Mobilization, Design Mobilization and Provisional Sum (Schedule C). Values include executed modifications and change orders.

PROJECT PROGRESS STATUS (Cont.)





MAJOR EQUIPMENT DELIVERY STATUS

Tunnel Boring Machine

RCC designed, procured and delivered the tunnel boring machine (TBM) and equipment.

Light Rail Vehicles

Four (4) Light Rail Vehicles (LRVs) for the Project will be procured and delivered by Kinkisharyo International, LLC under Contract P3010. The four LRVs for the Regional Connector Project are currently in Option 2 of the P3010 Contract. LRV design and design reviews as well as manufacturing of the prototype vehicles continued this period. The manufacturer continued performing qualification and post shipment tests on prototype cars 1 and 2 at LACMTA's Green Line shop.

UFS (Universal Fare System) & TVM (Ticket Vending Machines)

Procurement of UFS and TVM will commence after RCC completes the final design. Metro is coordinating with RCC for installation and testing schedules.

DESIGN-BUILDER'S (C0980) LONG LEAD ITEM LIST

Activity Name	Early Finish	Need Date
ELEVATOR COORDINATION DRAWINGS - 2ND/BROADWAY	4-Jun-17	21-Mar-20
ESCALATOR COORDINATION DRAWINGS - 2ND/BROADWAY	9-Jun-17	13-Dec-19
FAB/DELIV LIGHT FIXTURES - CENTRAL STA	22-Jun-17	26-May-21
FAB/DELIV LIGHT FIXTURES - BROADWAY STA	22-Jun-17	26-May-21
FAB/DELIV LIGHT FIXTURES - HOPE STA	22-Jun-17	3-Jun-21
FAB/DELIV EDGE LIGHTING - CENTRAL STA	18-Aug-17	1-Apr-21
FAB/DELIV EDGE LIGHTING - BROADWAY STA	18-Aug-17	31-Aug-21
FAB/DELIV EDGE LIGHTING - HOPE STA	18-Aug-17	29-Sep-21
ELEVATOR COORDINATION DRAWINGS - 2ND/HOPE	23-Aug-17	26-Aug-20
ESCALATOR COORDINATION DRAWINGS - 2ND/HOPE	28-Aug-17	2-Mar-20
FAB/DELIV 2ND/HOPE UNIT SUBSTATION AND TRANSFORMER	14-Sep-17	28-Jun-19
FAB/DELIV 2ND/BROADWAY UNIT SUBSTATION AND TRANSFORMER	14-Sep-17	19-Sep-19
PROCURE LIGHTWEIGHT BACKFILL SUBCONTRACTOR	29-Sep-17	13-Nov-20
FAB/DELIV ELEVATORS - 1ST/CENTRAL	31-Dec-17	25-Jan-21
FAB/DELIV TRAIN CONTROL CABLE	16-Jan-18	16-Jan-20
FAB/DELIV ESCALATORS - 1ST/CENTRAL	21-Mar-18	3-Oct-21
PROCURE FIRE PROTECTION SUBCONTRACTOR	22-Mar-18	17-Jun-19
FAB/DELIV EMERGENCY VENTILLATION FANS - HOPE (4)	1-Jun-18	28-Jun-19
FAB/DELIV EMERGENCY VENTILLATION FANS - BROADWAY (4)	1-Jun-18	12-Dec-19
FAB/DELIV ELEVATORS - 2ND/BROADWAY	4-Jun-18	21-Mar-21
FAB/DELIV 2ND/HOPE TPSS	8-Jun-18	17-Apr-19
FAB/DELIV OCS POLES / EQUIPMENT	8-Jun-18	29-Dec-20
FAB/DELIV OCR FOR TUNNEL	8-Jun-18	29-Jan-21
FAB/DELIV ESCALATORS - 2ND/BROADWAY	9-Jun-18	25-Feb-21
FAB/DELIV ELEVATORS - 2ND/HOPE	23-Aug-18	26-Aug-21
FAB/DELIV ESCALATORS - 2ND/HOPE	28-Aug-18	2-Mar-21
FAB/DELIV TRAIN CONTROL EQUIPMENT	31-Jan-19	1-Feb-21
FAB/DELIV 2ND/BROADWAY TPSS	5-Mar-19	10-Jan-20
PROCURE MASONRY SUBCONTRACTOR	24-Jun-19	21-Oct-20
PROCURE STEEL (PERMANENT) SUBCONTRACTOR	24-Jun-19	12-Mar-21
PROCURE DOORS & HARDWARE SUBCONTRACTOR	1-Jul-19	19-Feb-21
PROCURE TRACK SUBCONTRACTOR - PERMANENT	2-Jul-19	28-Jan-20
PROCURE GLAZING SUBCONTRACTOR	15-Jul-19	29-Apr-21
PROCURE ARCHITECTURAL PRECAST PAVER SUBCONTRACTOR	18-Jul-19	21-Apr-21
PROCURE STATION SIGNS SUBCONTRACTOR	23-Jul-19	22-Oct-21
PROCURE PRECAST COMM STRUCTURE PURCHASE ORDER	26-Jul-19	19-Apr-21
PROCURE STAINLESS STEEL SUBCONTRACTOR	2-Aug-19	18-Feb-21
PROCURE CAULKING & SEALANTS SUBCONTRACTOR	9-Aug-19	21-Jan-21

DESIGN-BUILDER'S (C0980) LONG LEAD ITEM LIST (Cont.)

		-
Activity Name	Early Finish	Need Date
PROCURE METAL CEILING SUBCONTRACTOR	14-Aug-19	8-Apr-21
PROCURE SHEET METAL SUBCONTRACTOR	22-Aug-19	10-Jun-21
PROCURE PAINT SUBCONTRACTOR	4-Sep-19	8-Apr-21
PROCURE FLUID APPLIED WATERPROOFING SUBCONTRACTOR	4-Sep-19	3-Feb-21
PROCURE DRYWALL & FRAMING SUBCONTRACTOR	18-Sep-19	6-Oct-21
PROCURE FLOORING SUBCONTRACTOR	27-Sep-19	28-Oct-21
PROCURE TILE SUBCONTRACTOR	27-Sep-19	8-Mar-21
PROCURE SPRAY ON ACCOUSTICAL FINISH SUBCONTRACTOR	7-Oct-19	5-Mar-21
PROCURE NEW 115RE RAIL - HIGH STRENGTH RAIL	24-Oct-19	20-May-20
PROCURE RAIL - JOBWIDE	24-Oct-19	20-May-20
PROCURE SPECIAL TRACK - JOBWIDE	24-Oct-19	25-Jun-20
PROCURE NEW 115RE RAIL - STANDARD RAIL	24-Oct-19	20-May-20
FAB/DELIV EMERGENCY VENTILLATION FANS - CENTRAL (4)	11-Nov-19	16-Sep-20
PROCURE TERRAZZO SUBCONTRACTOR	11-Nov-19	10-Nov-21
PROCURE PRECAST STRUCTURAL ELEMENTS SUBCONTRACTOR	18-Nov-19	11-Aug-21
PROCURE ARCHITECTURAL CONCRETE PAVING SUBCONTRACTOR	25-Nov-19	7-Apr-21
PROCURE AC SUBCONTRACTOR	12-Dec-19	28-May-21
PROCURE MILLING SUBCONTRACTOR	12-Dec-19	28-May-21
PROCURE PCC PAVING SUBCONTRACTOR	12-Dec-19	28-May-21
FAB/DELIV GLAZING SPIDERS - ALL STATIONS	18-Dec-19	19-May-21
PROCURE BALLASTED TRACK - NORTH ALAMEDA LEG	23-Dec-19	15-Sep-21
PROCURE GRANITE STONEWORK SUBCONTRACTOR	29-Jan-20	4-Oct-21
FAB/DELIV EMERGENCY BOOSTER FANS (12)	6-Feb-20	26-Aug-21
PROCURE PLATE PURCHASE ORDER	11-Aug-20	16-Oct-20
PROCURE MSE PANEL PURCHASE ORDER	11-Aug-20	16-Oct-20

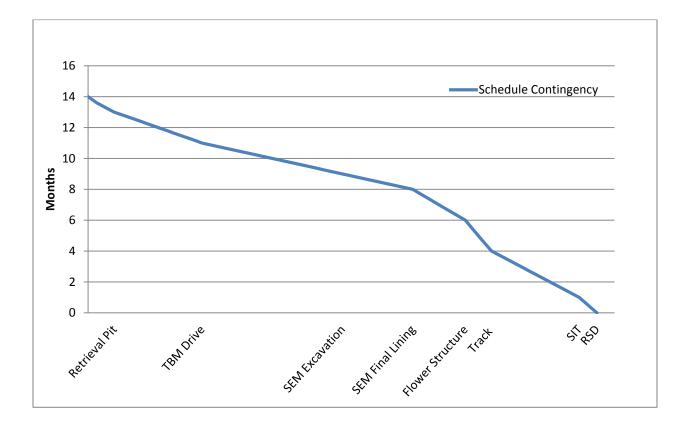
CRITICAL PATH NARRATIVE

Critical Path (C0980):

The critical path runs through the DWP Power relocation and cable pulling at 6th and Flower Streets. After DWP Power relocation, and pile and temporary decking installation at 6th and Flower Streets the intersection work will commence. Once the temporary decking at the intersection is complete, excavation and the CIP structure on Flower Street (Flower South) will follow. The critical path continues through MEP finishes, systems installation, and testing at the 7th/Metro TC&C Room, followed by systems integration testing and pre-revenue operations.

The previous critical path through TBM mining, SEM crossover structure and track work was improved due to a higher actual average TBM production rate, and the presumption of continuing at that rate through both TBM drives.





PROJECT SCHEDULE CONTINGENCY DRAWDOWN ANALYSIS

The project schedule contingency drawdown curve is based on the Anticipated FFGA RSD date of February 25, 2023.

PROJECT COST STATUS

SCC CODE		FFGA BUDGET	ORIGINAL BUDGET	CURREN	T BUDGET	СОММІТ	OMMITMENTS		ITURES	CURRENT FORECAST		BUDGET/ FORECAS
				PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	VARIANCE
10	GUIDEWAYS & TRACK ELEMENTS	280,622	204,691	0	250,085	0	238,790	8,330	80,371	0	250,128	
20	STATIONS, STOPS, TERMINALS, INTERMODAL	354,268	219,477	0	230,615	34	223,869	1,635	31,639	-34	230,615	
30	SUPPORT FACILITIES: YARDS, SHOPS, ADMIN, BLDGS	0	0	0	0	0	0	0	0	0	0	
40	SITEWORK & SPECIAL CONDITIONS	141,785	422,453	0	599,296	-15	516,088	4,634	337,947	429	605,717	6,4
50	SYSTEMS	69,667	73,848	0	73,974	0	63,689	86	4,145	0	73,599	-3
	CONSTRUCTION SUBTOTAL (10-50)	846,343	920,468	0	1,153,971	20	1,042,436	14,685	454,101	395	1,160,060	6,0
60	ROW, LAND, EXISTING IMPROVEMENTS	115,889	74,208	0	92,742	0	74,243	646	47,171	0	92,742	
70	VEHICLES	16,275	16,275	0	16,275	0	16,275	0	1,678	0	16,275	
80	PROFESSIONAL SERVICES	261,455	257,973	0	376,407	26	257,682	2,675	215,049	0	379,111	2,7
	SUBTOTAL (10-80)	1,239,963	1,268,925	0	1,639,395	45	1,390,637	18,006	717,999	395	1,648,187	8,7
90	UNALLOCATED CONTINGENCY	135,399	126,892	0	89,946	0	0	0	0	-395	81,154	-8,7
100	FINANCE CHARGES	27,571	7,115	0	14,301	0	0	0	0	0	14,301	
	TOTAL PROJECTS 460228 & 860228 (10-100)	1,402,932	1,402,932	0	1,743,642	45	1,390,637	18,006	717,999	0	1,743,642	
	ENVIRONMENTAL/PLANNING - 400228		6,075	0	6,075	0	6,075	0	6,075	0	6,075	
	ENVIRONMENTAL/PLANNING - 460228		18,125	0	20,425	0	20,425	0	18,842	0	20,425	
	TOTAL PROJECTS 400228 & 460228 (EVN/PLAN'G)	0	24,200	0	26,500	0	26,500	0	24,917	0	26,500	
	400228, 460228, 860228 TOTAL	1,402,932	1,427,132	0	1,770,142	45	1,417,136	18,006	742,916	0	1,770,142	

PROJECT COST ANALYSIS – 860228

Original Budget:

The Original Budget of \$1.427 billion reflects the April 2014 Board Approved Life-of-Project (LOP), plus finance costs of \$7.1 million.

Current Budget:

In January 2017, the Metro Board revised the LOP Budget for the Regional Connector Project 860228 to \$1.756 billion. Finance costs, estimated at \$14.3 million, are also reflected leading to a total of \$1.770 billion. Budgets were adjusted throughout the SCC structure reflecting revised values as of December 2016. Total current budget remains the same as of *April* 2017.

Commitments:

Commitments increased by \$0.5 million this period to \$1.42 billion which represents 80.1% of the Current Budget. The increase is due to execution of Contract C0980 Modifications.

Expenditures:

Expenditures are cumulative through *April* 2017. Expenditures increased by \$18.0 million this period for costs associated with C0980 Design Build contract, Engineering Management Support, Metro Project Administration, Construction Management Support Service, Legal Services, Third Party Master Cooperative Agreements with the City of LA, Community Relations, ROW and Environmental Consultant Services. The \$742.9 million in expenditures to date represents 42.0% of the Current Budget.

Current Forecast:

The total current forecast remains the same as the total current budget.

Regional Connector Transit Corridor Project Monthly Project Status Report

PROJECT COST STATUS (Cont.)

CONCURRENT NON-FFGA ACTIVITIES (861228)

PROJECT COST STATUS BY FTA SCC

SCC CODE	Description	ORIGINAL BUDGET	CURRENT	BUDGET	COMMIT	COMMITMENTS		ITURES	CURRENT	FORECAST	BUDGET / FORECAS
			PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	VARIANCE
10	GUIDEWAYS & TRACK ELEMENTS	-	0	0	0	0	0	0	0	0	
20	STATIONS, STOPS, TERMINALS, INTERMODAL	-	0	0	0	0	0	0	0	0	
30	SUPPORT FACILITIES: YARDS, SHOPS, ADMIN, BLDGS	10,480	0	10,480	0	10,480	0	0	0	10,480	
40	SITEWORK & SPECIAL CONDITIONS	0	0	0	0	0	0	0	0	0	
50	SYSTEMS	0	0	0	0	0	0	0	0	0	
	CONSTRUCTION SUBTOTAL (10-50)	10,480	0	10,480	0	10,480	0	0	0	10,480	
60	ROW, LAND, EXISTING IMPROVEMENTS	27,748	0	27,748	0	27,748	0	22,498	0	27,748	
70	VEHICLES	0	0	0	0	0	0	0	0	0	
80	PROFESSIONAL SERVICES	650	0	650	0	650	1	204	0	650	
	SUBTOTAL (10-80)	38,878	0	38,878	0	38,878	1	22,703	0	38,878	
90	UNALLOCATED CONTINGENCY	1,113	0	1,113	0	0	0	0	0	1,113	
100	FINANCE CHARGES	0	0	0	0	0	0	0	0	0	
	TOTAL PROJECTS 861228 (10-100)	39,991	0	39,991	0	38,878	1	22,703	0	39,991	
	861228 TOTAL	39,991	0	39,991	0	38,878	1	22,703	0	39,991	

PROJECT COST ANALYSIS – 861228

Original Budget:

The Original Budget, Current Budget, and Current Forecast reflect the Board Approved Life-of-Project (LOP) budget on April 24, 2014.

Current Budget:

There is no change to the Budget for this period.

Commitments:

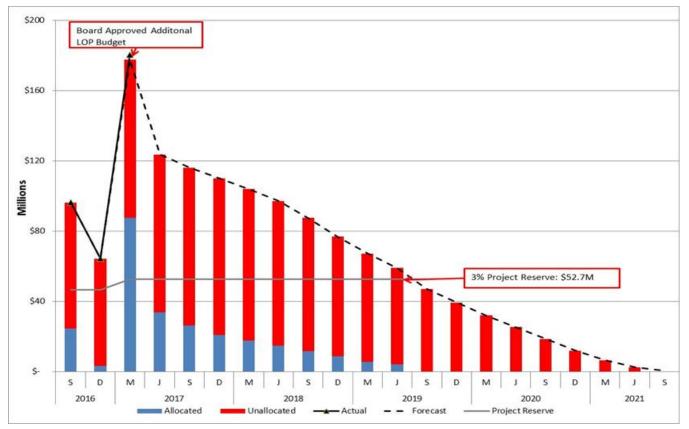
Commitments reflect actions through April 2017.

Expenditures:

Expenditures are cumulative through *April* 2017. Expenditures *increased* by \$1*k* this period for costs associated with *professional services*. The \$22.7 million in expenditures through *April* 2017 represents 56.8% of the Current Budget.

Current Forecast:

There was no change to the Forecast for this period.



COST CONTINGENCY DRAWDOWN

COST CONTINGENCY DRAWDOWN ANALYSIS

In January 2017, the Metro Board revised the Life-of-Project Budget to \$1.756 billion, which included increasing the unallocated contingency to \$89 million and allocated contingency to \$92.8 million. A revised drawdown plan for unallocated contingency, correlated to anticipate risk trends, was developed to monitor and measure drawdowns moving forward.

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

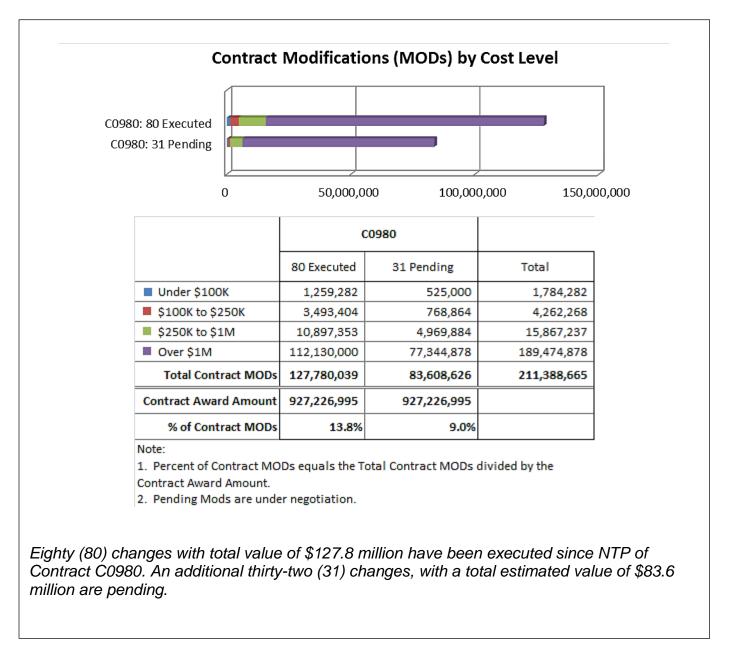
The project cost contingency drawdown curve is based on a 2021 Revenue Service date.

This month there is a drawdown of \$0.03 million from allocated contingency due to D/B modifications. The remaining total project contingency (allocated and unallocated) is \$180.3 million.

COST CONTINGENCY DRAWDOWN ANALYSIS (Cont.)

PROJECT COST CONTINE DOLLARS IN THOUSANDS	GENCY				
	Contingency	Previous Period	Current Period	To-Date	Remaining Contingency (Forecast)
Unallocated Contingency	89,946	(2,454)	(34)	(2,488)	87,457
Allocated Contingency	92,809	0	0	0	92,809
Total Contingency	182,754	(2,454)	(34)	(2,488)	180,266

SUMMARY OF CONTRACT MODIFICATIONS



DISADVANTAGED BUSINESS ENTERPRISE (DBE) STATUS

Contract C0980 Regional Connector Transit Corridor Design-Build

As of March 2016:

•	DBE Goal – Design	
	A numerically expressed percentage of funds apportioned to Design Contracts and is calculated based upon the relative availability of DBE firms as compared to all firms in the relevant geographic market area:	20%
•	Current DBE Commitment Design	\$11.3M
	Total DBE Committed Dollars divided by Total Contract Value for Design or Construction:	(22.63%)
•	Current DBE Participation	10.040/
	Total amount paid to date to DBEs divided by the amount paid to date to Prime:	16.94%
Tu	elve (12) Design DBE sub-consultants have been identified to date	
•	DBE Goal – Construction	
	A numerically expressed percentage of funds apportioned to Construction Contracts and is calculated based upon the relative availability of DBE firms as compared to all firms in the relevant geographic market area:	18%
•	Current DBE Commitment Construction	\$157.7M
	Contract commitment divided by current contract value for Construction:	(18%)
•	Current DBE Participation	40.000/
	Total amount paid to date to DBEs divided by the amount paid to date to Prime:	19.09%
Six	ty (60) Construction DBE sub-contractors have been identified to date	

PROJECT LABOR AGREEMENTS (PLA) STATUS

Contract C0980 Regional Connector Transit Corridor Design-Build

•	Targeted Worker Goal Construction work to be performed by residents from Economically Disadvantaged Area in the United States	40.00%
•	Targeted Worker Current Attainment	58.36%
•	Apprentice Worker Goal Construction work to be performed by Apprentices	20.00%
•	Apprentice Worker Current Attainment	18.21%
•	Disadvantaged Worker Goal Construction work to be performed by Disadvantaged Workers who are residents of the United States	10.00%
•	Disadvantaged Worker Current Attainment	8.30%

FINANCIAL/GRANT STATUS

Status of Funds Anticipated April 2017 METRO SUBMITTED ON NOVEMBER 25, 2013 A GRANT APPLICATION OF \$64.0M TO THE FTA. FEDERAL - CMAQ GRANT APPROVAL WAS EXECUTED ON SEPTEMBER 24, 2014. FUNDS ARE AVAILABLE FOR DRAW DOWN. ADDITIONAL CMAQ FUNDS WILL BE OBLIGATED IN FY18. FEDERAL - SECTION 5309 NEW STARTS METRO SUBMITTED ON NOVEMBER 25, 2013 A GRANT APPLICATION OF \$65.0 M TO THE FTA. GRANT APPROVAL WAS EXECUTED ON SEPTEMBER 23, 2014. METRO SUBMITTED ON JUNE 11, 2015 A GRANT AMENDMENT OF \$100M. GRANT AWARDED AUGUST 2015. FUNDS ARE AVAILABLE FOR DRAW DOWN METRO SUBMITTED A GRANT AMENDMENT OF \$100M IN JULY 2016. GRANT APPROVAL WAS EXECUTED 0N AUGUST 18, 2016. FUNDS ARE AVAILABLE FOR DRAW DOWN. MEASURE R - TIFIA LOAN: A TIFIA LOAN AGREEMENT BETWEEN THE DEPARTMENT OF TRANSPORTATION AND METRO FOR \$160M (Transportation Infrastructure Finance & Innovation Act) WAS EXECUTED ON FEBRUARY 20, 2014. THE DISBURSEMENT OF \$61,864,368 WAS SPLIT INTO TWO PARTS. RECEIVED THE FIRST DISBURSEMENT OF \$25.2 MILLION 4TH QUARTER FY2016. RECEIVED THE SECOND DISBURSEMENT OF \$36.7 MILLION 1ST QUARTER FY2017. STATE PROP 1A HSRB ALLOCATION REQUEST OF \$114.9M TO THE CTC WAS SUBMITTED ON JUNE 27, 2013. ALLOCATION WAS APPROVED ON JULY 18, 2014. FUNDS HAVE BEEN DRAWN DOWN. ALLOCATION REQUEST OF \$135.1M WAS APPROVED ON APRIL 24, 2013. STATE PROP 1B PTMISEA FUNDS HAVE BEEN DRAWN DOWN. **CITY OF LA** FUNDING AGREEMENT OF \$42M WITH THE CITY OF LA WAS APPROVED IN JUNE 2014. THE FIRST PAYMENT DRAWDOWN OF \$5.0M WAS IN JUNE 2016. THE SECOND PAYMENT DRAWDOWN OF \$7.0M ANTICIPATED IN MAY 2017.

Status of Funds by Source

April 2017

SOURCE	(A) ORIGINAL BUDGET	(B) TOTAL FUNDS	(C) TOTAL FUNDS	(D) (D/B) COMMITMENTS		(E) (E/B) EXPENDITURES		(F) (F/B) BILLED TO FUNDING SOURCE	
		ANTICIPATED	AVAILABLE	\$	%	\$	%	\$	%
FEDERAL - CMAQ	\$64.000	\$227.000	\$64.000	\$64.000	28%	\$53.974	24%	\$40.936	18%
FEDERAL - SECTION 5309 NEW STARTS	\$669.900	\$669.900	\$265.000	\$669.900	100%	\$236.060	35%	\$235.394	35%
FEDERAL - RIP	\$0.000	\$14.400	\$0.000	\$14.400	100%	\$0.000	0%	\$0.000	0%
MEASURE R - TIFIA LOAN	\$160.000	\$160.000	\$61.864	\$160.000	100%	\$61.864	39%	\$61.864	39%
STATE PROPOSITION 1A HSRB *	\$114.874	\$114.874	\$114.874	\$114.874	100%	\$114.874	100%	\$114.874	100%
STATE PROPOSITION 1B PTMISEA **	\$149.500	\$135.100	\$135.100	\$135.100	100%	\$135.100	100%	\$135.100	100%
STATE STIP RIP	\$2.590	\$2.590	\$2.590	\$2.590	100%	\$2.590	100%	\$2.590	100%
STATE CAPITAL PROJECT LOANS - OTHERS ***	\$132.466	\$325.745	\$284.730	\$251.272	77%	\$133.454	41%	\$124.280	38%
MEASURE R	\$27.571	\$0.000	\$0.000	\$0.000	0%	\$0.000	0%	\$0.000	0%
CITY OF LOS ANGELES	\$41.984	\$41.984	\$5.000	\$5.000	12%	\$5.000	12%	\$5.000	12%
LEASE REVENUE	\$64.247	\$64.247	\$0.000	\$0.000	0%	\$0.000	0%	\$0.000	0%
TOTAL	\$1,427.132	\$1,755.840	\$933.158	\$1,417.136	80.7%	\$742.916	42.3%	\$720.038	41.0%

EXPENDITURES ARE CUMULATIVE THROUGH APRIL 30, 2017

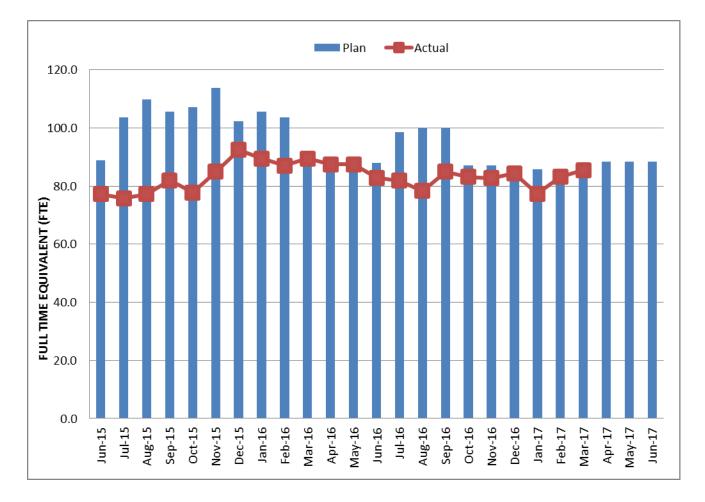
ORIGINAL BUDGET BASED ON FUNDING PLAN INCLUDED IN THE APPROVED FULL FUNDING GRANT AGREEMENT

* STATE PROPOSITION 1A HIGH SPEED RAIL BONDS

** STATE PROPOSITION 1B PUBLIC TRANSPORTATION MODERNIZATION, IMPROVEMENT AND SERVICE ENHANCEMENT ACCOUNT

*** OTHERS INCLUDE TDA ADMINISTRATION, NB PROPOSITION A ADMINISTRATION, AND PROPOSITION 1B INTEREST (FOR A TOTAL OF \$.318M)

STAFFING STATUS TOTAL PROJECT STAFFING – METRO AND CONSULTANTS



TOTAL PROJECT STAFFING

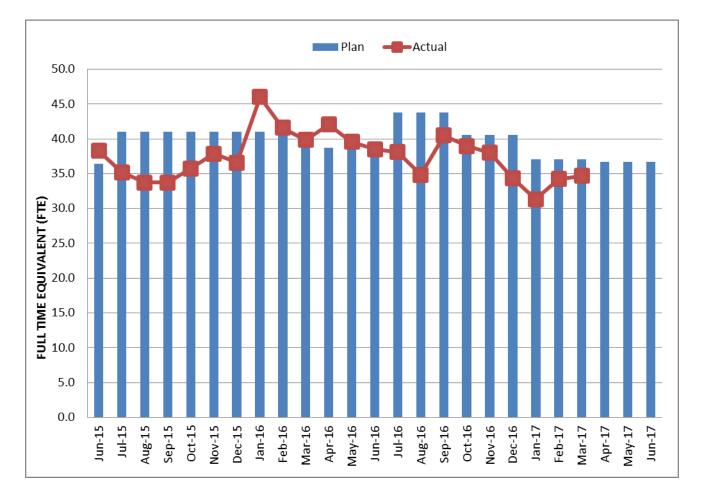
The overall FY17 Total Project Staffing plan averages 90.2 FTE's per month.

For *March* 2017, there were a total of *34.7* actual FTEs for Metro's Project Administration staff and *50.08* FTEs for consulting staff. The total actual project staffing for *March* 2017 was *85.5* FTEs versus FTEs planned (85.7).

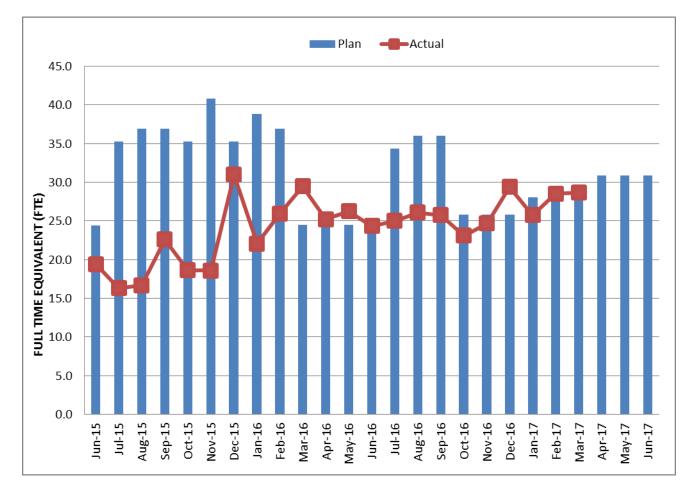
The shortfall in staffing has not impacted Metro's capability to effectively manage the Project. Review of staffing plans is on-going to ensure needs are addressed.

Regional Connector Transit Corridor Project Monthly Project Status Report

STAFFING STATUS (Cont.) METRO STAFF



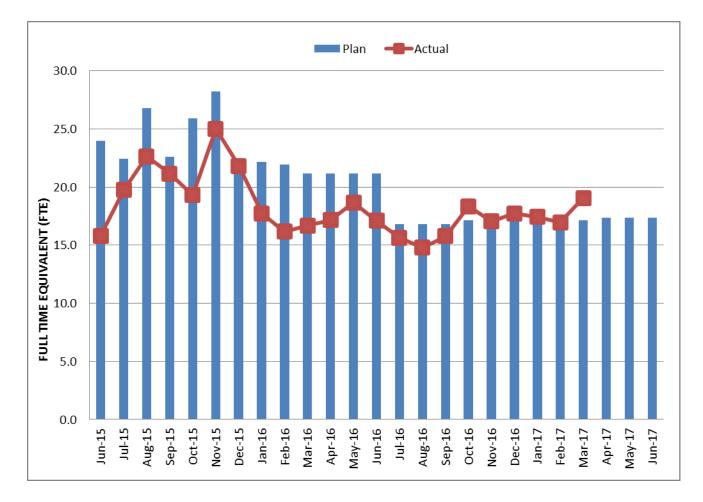
STAFFING STATUS (Cont.) CONSTRUCTION MANAGEMENTSUPPORT SERVICES CONSULTANT



Note:

- a) The variance in FTEs is due to holiday time off (Nov. 14), extensive weekend work (Dec.14) and additional field support staff.
- b) The Actual FTEs for the month are based on the FTE hours submitted in the invoice for that month.

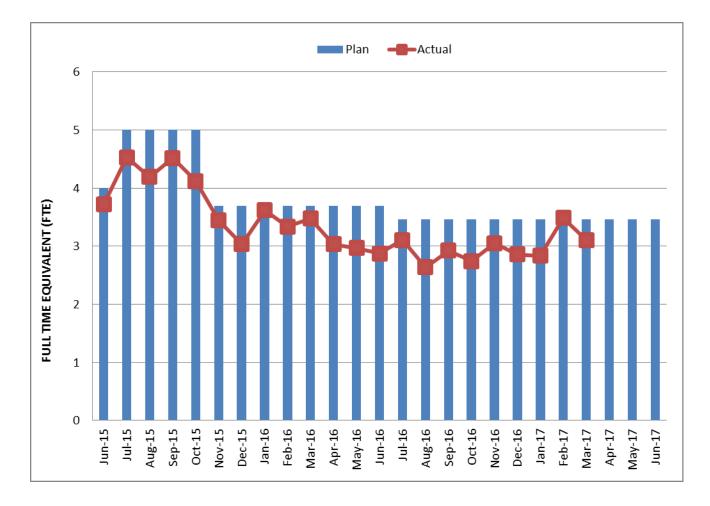
STAFFING STATUS (Cont.) ENGINEERING SERVICES CONSULTANTS



Note:

- a) The variance in FTEs is due to holiday time off and in support of C0980 submittals.
- b) The Actual FTEs for the month are based on the FTE hours submitted in the invoice for that month.

STAFFING STATUS (Cont.) PROJECT MANAGEMENT SERVICES CONSULTANTS



Regional Connector Transit Corridor Project Monthly Project Status Report

REAL ESTATE STATUS

Regional Connector - Real Estate Status Summary April 30, 2017

Type of Take	Number of Parcels	Certified	Decertified	Appraisals In Process / Completed	Offers Made	Escrow Closed	Effective OIP	Parcels Available	Remainin
Full Takes	2	2		2	2		2	2	
Part Takes	3	3		3	3			2	1
SSE	12	8	4	9	9	6	2	7	
TCE/ROE	14	5	3	6	6	4	1	5	
PE	3	3		3	3	2		3	
Sub Total	34	21	7	23	23	12	5	20	1
Pedestrian Bridge	420-1, 420-2, 420-3								1
Mangrove Fan Plant	TBD								1
Grand Total	36	21	7	23	23	12	5	20	3

REAL ESTATE ACQUISITION

OPEN REAL ESTATE MATTERS

Japanese Village Plaza – "JVP"

• Project is under construction on the site under an Order of Possession effective July 31, 2015. The trial to determine the value of the required right of way was held on April 4, 2017. The jury returned a verdict of 12-0 in favor of Metro in the amount of \$5,635, 00 whereas Japanese Village had asked the jury for \$37,125,000.

Broad Collection

• The subsurface easement was recorded on May 1, 2017 and is available for construction.

City of Los Angeles (Mangrove Parcels) – No Change

• Project submitted revised certification for additional right of way required for the Fan Plant. A meeting was held with the City of Los Angeles to acquaint them with the new requirements including the request to extend the 5-year easement for an additional three (3) years. The City and Metro are currently soliciting for two (2) appraisers (one each) to appraise the additional requirements.

City of Los Angeles Department of Water and Power 'Duco Yard' – DWP (RC-473)

- LADWP has agreed to a compromise in the valuation of the Property and will proceed to draft a Purchase and Sale Agreement.
- LADWP submitted its estimate of the modification required to their yard to continue their operations. The estimate is being reviewed by the Project. Follow-up interface between the parties continues. *Cost and extent of mediation measures required is still at issue.*

QUALITY ASSURANCE STATUS

C0980 Regional Connector D/B

- Metro QA reviewed and provided comments on RCC's quality related submittals, Construction Quality Work Plans (CQWPs) and milestone submittals. *During the month of April four (4) CQWPs were received and reviewed. Metro QA also reviewed a resubmittal of the RCC Quality Manual and Procedures.*
- Metro QA also reviewed:
 - o Test results for Portland cement concrete, welding and MT/UT
 - Submittal for rebar certifications for 2nd/Hope concrete placements
 - Submittal for Storm Drainage Pipe Testing for the invert slab placement at 2nd/Hope
 - Submittal of Source Inspection List providing an update of equipment suppliers for procured equipment
 - Submittal for Tie-Back testing for the 2nd Level at 2nd/Broadway and the 7th level at 2nd/Hope
- Attended "Readiness Review" meetings with RCC.
- Metro QA attended the RCC As-Built Review for April.
- Performed oversight verification of RCC's design and construction activities, as well as ongoing oversight monitoring of RCC's QA/QC activities.
- There were two (2) NCRs (NCR 22 and 23) issued by RCC Quality for instrumentation readings taken outside of specified time limits. The root cause will be identified by next reporting period.
- Metro QA performed surveillance (C0980-SUR2017-006) for the final three (3) sections of the Invert Slab Placement at 2nd/Hope Station; all activities were found to be compliant.
- Metro QA performed surveillances (007, 008) by desktop review for the first two (2) Milestones of the tunneling activities for 1st/Central to 2nd/Broadway. The documentation was found to be acceptable per project requirements.
- Metro QA performed surveillance (009) of the Concrete Placement for the Sub-Invert Slab at the TBM Retrieval Pit at 4th/Flower; all activities were found to be compliant.
- RCC testing performed to date are as follows:
 - 1. Portland cement concrete 28-day test results: 788, number accepted: 788
 - 2. Asphalt concrete density tests results: 203, number accepted: 203
 - 3. Soil compaction (in-situ density) tests performed to date: 168, number accepted: 168
 - 4. Welding MT/UT testing to date is: 7702 number accepted: 7697

QUALITY ASSURANCE STATUS (CONT.)

• During the regularly scheduled aggregate sampling for April and testing by RCC's Independent Testing Laboratory, a sample failed to meet the project specific requirements for gradation. RCC informed their supplier that this condition cannot continue and that it must be resolved for future concrete placements. Since this failure occurred prior to the concrete placement of the sub-invert slab at 4th/Flower, RCC received permission to use this aggregate from the Engineer of Record provided the concrete strength tests meet the required strength for the concrete mix design. After the concrete placement, another sample was taken; this sample met all the project requirements for gradation. There will be a more frequent sampling by RCC until the Project is satisfied that this issue has been adequately resolved.

ENVIRONMENTAL STATUS

- As of June 30, 2016, RCC has installed noise monitors at six (6) Metro-approved locations along the Project alignment. The noise monitors are instrumental in verifying compliance of construction-generated noise with the local ordinance and thresholds listed in the Project Contract Specifications.
- RCC has installed vibration monitors at WDCH, REDCAT, the Broad Museum, Japanese Village Plaza, LA Times, Hikari Apartments, Colburn School and Nakamura Tetsujiro Building. Locations are based on the Vibration Monitoring Plan to monitor vibration continuously during peak vibration generating construction. The Vibration Control Plan Quarter 2 Update for 2017 will be amended to include *vibration measurement of annoyance criteria to coincide with TBM advancement adjacent to sensitive receptors, and* a new table showing Maximum Allowable Interior Groundborne Vibration During TBM Operations (units will be shown in *RMS (in/sec) and VdB units* to coincide with the vibration data currently available to Metro via the INFRANet system). The update to the Vibration Control Plan was approved by Metro in April 2017.
- SWPPP inspections of all project areas are conducted weekly by RCC to observe site conditions and report on performance of stormwater protection Best Management Practices.
- Metro *is* preparing the 17th Quarterly Mitigation Monitoring and Reporting Plan covering February 2017 to April 2017, *and will submit the report by May 15, 2017*.
- RCC is currently working on the *100*% landscape design plans for Segment A and the *85% landscape design plans for* Segment B.
- Metro is *preparing* the 5th Semi-Annual Cultural Resources Report, documenting cultural resources monitoring from *January 2017 to June 2017*. The report will be submitted to the FTA and the SHPO by July 31, 2017. Reporting will continue a semi-annual basis until ground-disturbing activities conclude.

CONSTRUCTION AND COMMUNITY RELATIONS STATUS

Construction Relations

- Responded and addressed project related inquiries from the public received on the project hotline, email and during office hours at the Little Tokyo Community Office.
- Continued outreach to impacted area stakeholders regarding the following construction activities throughout the alignment: geotechnical instrument installation and maintenance, pavement repair, saw cutting, traffic management conduit installation, storm drain work, and utility investigation. Distributed 16 construction notices to the public on these activities through email and made it available on the project website and social media outlets.
- Coordinated construction activities with thirty-six (36) stakeholders throughout the project alignment on the above activities.
- Presented to the following groups on the progress of the project, tunneling and the 6th St closure: Central City Association, Arts District Los Angeles and Little Tokyo Community Council.
- Continued the Historic Broadway parking validation program to mitigate for the loss of parking during cut and cover activities at the 2nd/Broadway station area.
- Held the project wide Construction Update Community Meeting and updated the Regional Connector Community Leadership Council Committees at: 1st/Central, 2nd/Hope, 2nd/Broadway and Flower St./Financial District on the progress of tunneling, the 6th St./Flower St. closure and ongoing construction activities.
- Continued standing meetings with: LA City Councilmember District 14, the Mayor's Office, Onni Times Square, Common Wealth Partners, The Westin Bonaventure Hotel, Charles Dunn, Citigroup Center, the Central Library/Hines, The Standard Hotel, Pegasus Apartments and the California Club.

Social Media Outreach and Marketing Efforts

- Facebook has 8.8k followers with a total reach of 58.5k users. Twitter had 24k impressions with 2,480 total followers. The most popular posts included a promotional message for a local business, After One Year Quinceañera, and photos of construction activities at 2nd/Hope and Broadway Station.
- The monthly E-Newsletter had a 22% open rate.

Community Relations

• Continued work with the monthly Little Tokyo Marketing & Business Task Force. Held Small Business workshop with Little Tokyo Service Center Partner, Asian Pacific Islander Small Business program.

CREATIVE SERVICES STATUS

Art Program

- Responded to RFIs and Submittals
- Participated in Design Build document reviews
- Participated in coordination meetings with Design Builder
- Participated in community meetings with project team
- Continued to support mitigation efforts

Signage & Environmental Graphic Design

- Responded to RFIs and Submittals
- Participated in Design Build document reviews

SAFETY & SECURITY STATUS

C0980 Regional Connector

- Monitored RCC's pre-employment drug/alcohol testing and new employee safety orientation to insure compliance with contract specifications.
- Participated in weekly progress meetings with RCC's management personnel and Metro's Construction Manager to discuss safety/security/quality related issues and construction work schedules.
- Conducted Project Safety Orientation for new Metro/Consultants and IPMO project staff. Training sessions included Underground Safety and Self Rescuer Training.
- Participated in work plan reviews, daily crew safety meetings, and the RCC 'Safety Stand Down' sessions.
- Monitored construction field activities daily to insure compliance with contract specifications. Participated with RCC staff in field safety inspection walks of multiple project worksites, laydown, and storage yards.
- Monitored Third Party contractor's work activities to insure safety compliance.
- Made recommendations to utility crews regarding contract activities and improving overall traffic control and pedestrian safety.
- RCC reported one recordable injury in the month of *April* 2017.
- C0980 Contractor RCC reported 65,344 work-hours for the month of *March* 2017 (work-hours are reported with one-month lag time). The total C0980 Contract to Date work hours through *March* 2017 are *1,451,603* with a total of *eight (8)* recordable injuries and no Lost Workday case injuries. The C0980 Contract Recordable Injury Rate is *0.96*. The Bureau of Labor Statistics National Average Recordable Injury Rate is 2.8 for heavy civil construction projects.
- Project to Date Total Work Hours including both the C0980 and the C0981 Advanced Utility Relocation contract through *March* 2017 is now *1,562,662* hours with *nine (9)* recordable injuries. Project Total Recordable Injury Rate is now 0.89. There have been no days away, lost time or severe injuries on the project.

Agency	Type of Agreement	Status/Comments			
City of Los Angeles	Amendment to Master Cooperative Agreement	Parties will work under 2003 MCA.			
Los Angeles Department of Water and Power	Amendment to Memorandum of Understanding	Metro and LADWP will continue to work under the terms of the previous Cooperative Agreement.			
Los Angeles County Public Works	Letter of Agreement	Executed in April 2011			
Caltrans	Amendment	Executed in August 2011			
Private Utilities	LOA, MOU or UCA	All agreements in place with exception of Level 3, Qwest, XO Comm, Zayo and Time Warner. Metro is in discussion with those utilities to establish agreements.			

THIRD PARTY AGREEMENT STATUS

ADVANCED UTILITY RELOCATION STATUS

LADWP-Power Services anticipated completion dates for cable pulling, splicing and removal of old facilities including the following:

- RCC is continuing to coordinate with LADWP and the City of Los Angeles in preparation for relocation of the local LADWP electrical system *for 6th and Flower area.* Metro continues to work with both parties to facilitate coordination of the relocation design and construction in preparation for future decking installation.
- Metro, LADWP, and RCC addressed LABOE's comments from the 6th and Flower Power relocation plans, and submitted the plans to Los Angeles Bureau of Engineering on April 17, 2017. RCC completed the installation of Lateral 1 conduit on April 4, 2017. This conduit is located on Flower Street, north of 6th Street.
- RCC is requesting the Department of Water Power to begin the process of scheduling the intercept and cable pulling work. *LADWP is scheduled to start their work on May 1, 2017.*

LADWP-Water Services anticipated completion dates for water installation and removal of old facilities including the following:

• On Flower Street between 4th Street and Wilshire Boulevard, the water relocation of the 24" waterline started on April 2015 and is expected to be completed by late May 2017.

C0980 UTILITY WORK STATUS

RCC is currently coordinating with all affected utility owners to relocate their utilities by lowering in place or support and protect to accommodate the Regional Connector Project.

PEAK HOUR CONSTRUCTION VARIANCES

Metro is actively pursuing extended hour variances/exemptions to accommodate Project needs by working with the City of Los Angeles, Bureau of Engineering, the Los Angeles Police Commission, the City of Los Angeles Department of Transportation and the City Council District 14th Office to obtain Peak Hour Exemptions.

2nd/Broadway and 2nd/Hope Stations:

- As of May 8, 2017, 2nd/Broadway Station has entered steady state condition in which soldier piling/decking operations have been completed in the City ROW. Emphasis is primarily on underground station construction until approximately the year 2021.
- AM and PM exemptions for the 2nd/Hope full closure have been obtained from January 23, 2016 to April 27, 2019. This is to support utility relocations, piling/decking operations, and the 2nd/Hope Station construction.

Flower Street Cut & Cover Area

- Metro obtained an AM and PM peak hour exemption to place k-rail on the eastside of Flower Street (between 4th and 5th Sts.) to support above and below ground construction operations for decking along Flower Street. Approval was granted by the Board of Public works from October 1, 2016 to November 9, 2019.
- Metro obtained an AM and PM peak hour exemption to perform pre-trenching operations on Flower St (5th St Wilshire Blvd) from April 10, 2017 to June 23, 2017.

POLICE COMMISSION CONSTRUCTION VARIANCES

Metro continues to work closely with the Los Angeles Police Commission and actively pursue new night/Sunday work hour variances as well as expanded geographic limits and time extensions for existing variances to accommodate Project needs.

In April 2017, LAPD approved time extensions for three (3) existing variances for the following locations:

- At the Flower Street area 2 (two) variances were extended for the waterline and decking work.
- At the 2nd/Hope area, one (1) variance was extended for concrete work.

CPUC CROSSING SUMMARY

In July 2016, Metro and RCC finalized the items that needed to be included in the checklist for the Safety Certification Status. Metro is in the process of reviewing the Safety Certification Checklist submitted by RCC in October 2016. The list involves both design and construction items below:

- Passenger Stations, Train Control and Signals, Traction Power, Overhead Catenary, Communications, Track and Structures, Vertical Transportation (elevators, escalators), Fire Life Safety Systems, Security Systems, and CPUC Specific Requirements.
- Metro and RCC staff have reached a consensus of each Systems Safety Certification item per discipline that needs to be included in the plan. These items have been inserted into a Microsoft Access Database for tracking, sorting, and distribution to key staff members for alerting of any potential issues that must be resolved. This will ensure that the completion of the Safety Certification Plan will be completed in a timely manner and not impact the Revenue Operation Date (ROD).

As of January 2017, the Safety Certification Checklist has been approved by Metro.

CHRONOLOGY OF EVENTS

June 2007	Began Alternatives Analysis study
January 2009	Board approval of Alternatives Analysis study and next phase
February 2009	Began Draft Environmental Impact Statement / Report (EIS / EIR)
October 2010	Board approval of Draft EIS / EIR and selection of locally preferred alternative
January 2011	FTA approval to Enter into Preliminary Engineering
January 2011	Began Preliminary Engineering
August 2011	Board authorized to solicit major D/B contract C0980
October 2011	Issued RFQs for D/B contract C0980
December 2011	Began Real Estate Acquisition
March 2012	Completed PE and began Advanced PE
April 2012	Board certification of Final EIS / EIR and adoption of project
April 2012	Began Final Design - Advanced Utility Relocations (AUR)
June 2012	FTA Record of Decision
August 2012	Issued RFQs for D/B contract C0980
January 2013	Issued RFPs for D/Build contract C0980
March 2013	Completed Final Design - Advanced Utilities Relocation (AUR)
May 2013	NTP for Construction Management Services contract MC070
June 2013	Beginning of AUR contract C0981R Bid Period
July 2013	Submitted TIFIA loan application
July 2013	Submitted first draft FFGA application to FTA for review
September 2013	Received proposals for D/B Contract C0980

CHRONOLOGY OF EVENTS (Cont.)

September 2013	Submitted second draft FFGA application to FTA, incorporating FTA comments
October 2013	Submitted Application to FTA Requesting an FFGA
November 2013	Started Emergency Generator Replacement Tank at 2 nd Street and Broadway Station (LA Times Building)
December 2013	Issued "Notice of Intent to Award" letter to contract C0981R contractor Pulice Construction Inc.
January 2014	Awarded AUR contract C0981R to Pulice Construction Inc.
February 2014	Issued Notice to Proceed for AUR Contract C0981R
February 2014	FTA issued Full Funding Grant Agreement to Metro
March 2014	Issued Amendment # 11 for D/B Contract C0980
March 2014	Started Survey for AUR Contract C0981R
April 2014	Metro Board approved the award of D/B Contract C0980 and established a LOP Budget
May 2014	Awarded D/B Contract C0980 to Regional Connector Constructors, Joint Venture
June 2014	Obtained possession of the Mangrove property form the City of Los Angeles
July 2014	Issued Notice to Proceed for D/B contract C0980
August 2014	C0980 D/B Contractor (RCC) began Final Design
September 2014	Metro performed the ground-breaking ceremony for C0980 D/B Contract
October 2014	EN077 Contractor, Arcadis, removed the underground storage tank at LA Times Parking Lot
November 2014	C0981R AUR Contractor completed DWP power work at 1 st St. and Alameda
December 2014	Metro completed Field Vibration Testing for existing Expo and Gold Lines
January 2015	Demolish Buildings at 1 st /Central Station
February 2015	Metro approved the Baseline Schedule for C0980 D/B Contract
March 2015	RCC started 2 nd /Broadway Station Site Move-In

CHRONOLOGY OF EVENTS (Cont.)

April 2015	Metro terminated C0981R Contract for convenience
May 2015	RCC started pile installation at Mangrove Launch Pit
June 2015	RCC started decking for shoofly bridge (Pile Cap & Grade Beam)
July 2015	DWP Water started installing 36" Water Valve at Alameda St.
August 2015	RCC completed DWP Power work at Flower & 5th Street
September 2015	RCC started Phase 2 DWP Power Relocation work at Broadway (Behind K Rail).
October 2015	RCC started pile installation at 1 st /Central Station
November 2015	RCC completed Central Ave Full Closure (Pile & Decking)
December 2015	Metro Board approved the increase (\$131.8M) of the Project LOP Budget to \$1,589.9 million.
January 2016	RCC began implementation of Bus Bridge # 1 (Shoofly Tie-In Work at Little Tokyo.
February 2016	RCC began implementation of full closure at 2 nd /Broadway intersection.
March 2016	RCC completed Bus Bridge # 1 (Shoofly Tie-In at Little Tokyo) work.
March 2016	Excavation of 1 st /Central Station was initiated.
April 2016	TBM (Tunnel Boring Machine) was delivered to the temporary storage site.
May 2016	Closed 1st Street between Alameda and Central Streets. Opened northbound 1 st East of Alameda Street.
June 2016	RCC completed excavation at 1 st /Central Station Box
June 2016	RCC began pile installation on west side of Flower Street between 4th and 5th Street
July 2016	RCC initiated pile installation at 2 nd /Broadway Station (West Hammer Head)
July 2016	RCC Initiated CIP invert at 1 st /Central Station Box
August 2016	RCC completed 36" waterline replacement at 1 st /Alameda

CHRONOLOGY	OF EVENTS	(Cont.)
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September 2016	RCC completed temporary decking at 1 st /Alameda intersection (Wye)
October 2016	Metro performed TBM lowering ceremony
October 2016	RCC completed CIP invert at 1 st /Central Station Box
November 2016	RCC completed CIP invert at Mangrove Launch Pit and Wye
December 2016	RCC completed Phase 1, 2 nd Street Decking in front of LA Times Bldg.
January 2017	Metro Board approved a LOP Budget increase
February 2017	RCC initiated TBM mining (1 st – Left)
March 2017	RCC completed TBM mining under JVP (first 500 ft.)
March 2017	RCC completed temporary decking on Flower St. (between 4^{th} and 5^{th})
April 2017	RCC completed sub-invert at TBM retrieval pit
April 2017	RCC completed CIP invert at 2 nd /Hope Station Box

CONSTRUCTION CONTRACTS

Description: Design-Build Contract	Contract No. C0980
Contractor: Regional Connector Constructors	Status as of: April 28, 2017
 Work Completed: Design Evaluated the tunneling options under the Red Line AFC package for 1st/Central Station approved Submitted a full package for 6th/Flower DWP Power relocation to LABOE 100% SEM Resequencing package submitted AFC package for Flower Cut & Cover Invert approved AFC package for 2nd/Broadway Station submitted Completed mining under SEM Crossover and 2nd/Broadway Station area 1331 feet mined; 266 rings installed Broadway Initiated trestle deck beams and bracing Initiated level 3 excavation at Station Box Hope Completed concrete pour for Invert #3 & #4 Initiated tunnel eye installation Flower Completed excavation and sub-invert at TBM retrieval pit 	Major Activities (In Progress): Design • Coordinate with Tribune for the overbuild structure • Review and Approve AFC package for 2 nd /Broadway Station • Support in feasibility assessment for the Flower Street train control room. • Preparation of street restoration design with city families • Preparation of DU2 WYE Fan Plant and Flower Cut & Cover 100% design submittal • Preparation of DU4 Civil Segment A 100% design submittal • Preparation of DU5 Civil Segment B 100% design submittal • Preparation of DU5 Civil Segment B 100% design submittal • Preparation of DU12 Communications 100% design submittal • Preparation of DU12 Communications 100% design submittal Construction Tunneling • Tunnel mining operations under Red Line tunnel and Broad Museum • Complete TBM mining to 2 nd /Hope Station 2nd/Broadway • Complete temporary decking installation on 2 nd Street • Station Box excavation and strut installation • Continued preparation for implementation of 2 nd Street • Station Box excavation and utility hanging on Flower Street (between 4 th & 5 th Street) • Complete temporary decking installation and monitoring across the project wide • Prejaction of Concourse Level SOG Flower • Complete waterline shutdowns and ti

CONSTRUCTION CONTRACTS (Cont.)

Description: Design-Build Contract	Contract No. C0980
Contractor: Regional Connector Constructors	Status as of: April 28, 2017
 Areas of Concern: Detailed design is underway to relocate the 6th/Flower DWP power assets. This work requires collaboration with COLA relative to TCPs, BOE approvals, DWP efforts, etc. to minimize schedule and cost impacts. Stakeholder challenges are also anticipated; engagement by Metro outreach resources are planned accordingly. 	 Upcoming Interim Milestones: Design LADWP Power relocation design at 6th/Flower to be reviewed and approved by LABOE DU2 WYE Fan Plant and Flower Cut & Cover AFC package to be submitted SEM Resequencing AFC package to be submitted DU4 & DU5 Civil AFC package to be submitted DU12 Communications AFC package to be submitted Construction 1st/Central/Tunneling Complete TBM mining to Flower St 2nd/Broadway Continue excavation of station box at 2nd/Broadway Storm drain installation on 2nd Street 2nd/Hope Complete final design of power relocation at 6th/Flower Continue pile installation on Flower St (between 5th and 6th Street) Continue DWP Power relocation at 6th/Flower Project-wide Complete placement of geotechnical monitoring instrumentation along the alignment

CONSTRUCTION CONTRACTS (Cont.)

Description: Design-Build Contract Contractor: Regional Connector Constructors Schedule Summary:		Contract No. C0980 Status as of: April 28, 2017						
			Original Contract Dates/Duration	Time Extension (CD)	Current Contract	Forecast	Variance CDs	
Date of Award:	5/6/2014	Notice to Proceed	07/07/14		07/07/14			
Notice to Proceed:	7/7/2014	Milestone 1:	10/22/20	150	03/21/21	02/28/22	-344	
Original Contract Duration:	2430 CD	Milestone 2:	06/14/20		To be del	eted (Mod#74)		
		Milestone 5:	08/19/19		To be del	eted (Mod#74)		
Current Contract Duration:	2579 CD	Milestone 6:	09/18/19	To be deleted (Mod#74)				
Elapsed Time from NTP: 1027 CD		Milestone 7:	10/10/15	To be deleted (Mod#74)				
		Milestone 8:	8 Weekends	0	8 Weekends	8 Weekends	0	
		Milestone 9A:	200 Days		To be del	eted (Mod#74)		
		Milestone 9B:	100 Days		To be del	eted (Mod#74)		
		Milestone 10:	115 Days		To be del	eted (Mod#74)		
		Milestone 11:	15 Days	To be deleted (Mod#74)				
		Milestone 12:	03/01/21	149	07/28/21	04/29/22	-275	
Physical Percent Complete as of : 04/29/17		Cost Summa	Cost Summary:		\$ In millions			
Design	97.8%	1. Award Value:		927.2	927.2			
Construction	29.6% 2. Executed Modifications:		178.1					
		3. Approved Char	nge Orders:			0.1		
* Note: Physical completion assessment excludes		4. Current Contra	4. Current Contract Value (1+2+3):			1,105.4		
mobilization, general mobilization and Provisional Sum.		5. Incurred Cost: 483.1						

CONSTRUCTION PHOTOS



Installation of Trestle Beams at Broadway Station



Installed Temporary Rail for TBM at Hope Station



Utility Hanging along north side of Broadway SOE



Finished Sub-Invert slab at TBM Retrieval Shaft



Piling at SW corner of 5th & Flower St.



Applying Shotcrete at Left Track at Hope Station

COST AND BUDGET TERMINOLOGY

Project Cost Descriptions	
ORIGINAL BUDGET	The Original Project Budget established upon Board approval of Life-of-Project (LOP) budget, plus Finance Costs.
CURRENT BUDGET	The Original Budget plus all approved budget amendments. Also referred to as Approved Budget.
COMMITMENTS	The total of actual contracts awarded, executed change orders or amendments, approved work orders of Master Cooperative Agreements, and other Metro actions which have been spent or result in the obligation of specific expenditures at a future time.
EXPENDITURES	The total dollar amount of funds expended by Metro for contractor or consultant invoices, third party invoices, staff salaries, real estate and other expenses that is reported in Metro's Financial Information System (FIS).
CURRENT FORECAST	The best estimate of the final cost of the project when all checks have been issued and the project is closed out. Current Forecast is composed of actual costs incurred to date, the best estimate of work remaining and a current risk assessment for each budgeted cost item.
Cost Report by Element Descriptions	
CONSTRUCTION	Includes construction contracts. Cost associated with Guideways, Stations, Southwestern Yard, Sitework/Special Conditions and Systems. Includes purchase cost of parcels, easements, right-of-entry
RIGHT-OF-WAY VEHICLES	permits, escrow fees, contracted real estate appraisals and tenant relocation.
	Includes the purchase of LRT vehicles and spare parts for the project.
PROFESSIONAL SERVICES	Includes design engineering, project management assistance, construction management support services, legal counsel, agency staff costs, and other specialty consultants.
CONTINGENCY	A fund established at the beginning of a project to provide for anticipated but unknown additional costs that may arise during the course of the project.
PROJECT REVENUE	Includes all revenue receivable to the Metro as a direct result of project activities. This includes cost sharing construction items, insurance premium rebates, and the like.

LIST OF ABBREVIATIONS AND ACRONYMS

AFC	Approved for Construction
APE	Advanced Preliminary Engineering
ATC	Automatic Train Control
ATSAC	Automated Traffic Surveillance and Control
AUR	Advanced Utility Relocation
BAFO	Best and Final Offer
BIM	Building Information Modeling
CADD	Computer Aided Drafting and Design
CALTRANS	
	California Department of Transportation Closed Circuit Television
CCTV	
CD	Calendar Day
CEQA	California Environmental Quality Act
CM	Construction Manager
CMAQ	Congestion Mitigation and Air Quality Improvement Program
CN	Change Notice
CO	Change Order
COLA	City of Los Angeles
CPM	Critical Path Method
CPUC	California Public Utilities Commission
CQWP	Construction Quality Work Plan
CR	Camera Ready
CSPP	Construction Safety Phasing Plan
CTC	California Transportation Commission
CUD	Contract Unit Description
DB	Design Build
DBB	Design Bid Build
DDR	Design Deviation Request
DOT	Department of Transportation
DWP	Department of Water and Power
ECI	Engineering Change Instruction
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
EPB TBM	Earth Pressure Balance Tunnel Boring Machine
FAR	Federal Acquisition Regulation
FD	Final Design
FEIS	Final Environmental Impact Statement
FEIR	Final Environmental Impact Report
FFGA	Full Funding Grant Agreement
FIS	Financial Information System
FLSR	Fire Life Safety Report
FONSI	Finding of No Significant Impact
FRA	Federal Railroad Administration
FSEIR	
	Final Supplemental Environmental Impact Report
FSEIS	Final Supplemental Environmental Impact Statement
FTA	Federal Transit Administration
FTE	Full Time Equivalent

LIST OF ABBREVIATIONS AND ACRONYMS (Cont.)

GBN	Ground Borne Noise
GBR	Geotechnical Baseline Report
GDSR	Geotechnical Design Summary Report
	RHistorical American Building Survey / Historical American Engineering Record
IFB	Invitation for Bid
IPMO	Integrated Project Management Office
JV	Joint-Venture
LA	Los Angeles
LABOE	Los Angeles Bureau of Engineering
LABOS	Los Angeles Bureau of Sanitation
LABSL	Los Angeles Bureau of Street Lighting
LACFCD	Los Angeles County Flood Control District
LACMTA	Los Angeles County Metropolitan Transportation Authority
LADOT	Los Angeles Department of Transportation
LADPW	Los Angeles Department of Public Works
LADWP	Los Angeles Department of Water and Power
LAFD	Los Angeles Fire Department
LAPD	Los Angeles Police Department
LNTP	Limited Notice to Proceed
LONP	Letter of No Prejudice
LOP	Life-of-Project
LPA	Locally Preferred Alternative
LRT	Light Rail Transit
LRTP	Long Range Transportation Plan
LRV	Light Rail Vehicle
MCA	Master Cooperative Agreement
MIS	Major Investment Study
MMRP	Mitigation Monitoring and Reporting Program
MOU	Memorandum of Understanding
MPSR	Monthly Project Status Report
N/A	Not Applicable
NEPA	National Environmental Protection Act
NOD	Notice of Determination
NPDES	National Pollution Discharge Elimination System
NTE	Not to Exceed Notice to Proceed
NTP	
	Operations Control Center
OCR	Overhead Conductor Rail
	Overhead Catenary System
OSHA	Occupational Health and Safety Administration
PA/VMS	Public Address/Visual Messaging Sign
PCTL	Precast Concrete Tunnel Lining
PE	Preliminary Engineering
PEER	Permit Engineering Evaluation Report
PIP	Project Implementation Plan

LIST OF ABBREVIATIONS AND ACRONYMS (Cont.)

PLA	Project Labor Agreement
PM	Project Manager
PMOC	, .
	Project Management Oversight Consultant
PMP	Project Management Plan
PR	Project Report
PSR	Project Study Report
QA	Quality Assurance
QAR	Quality Assurance Report
QC	Quality Control
QPSR	Quarterly Project Status Report
RAMP	Real Estate Acquisition Management Plan
RCC	Regional Connector Contractors
RCMP	Risk Assessment Management Plan
RFC	Request for Change
RFP	Request for Proposals
RHA	Risk Hazard Analysis
ROC	Rail Operations Center
ROD	Record of Decision
ROM	Rough Order of Magnitude
RON	Resolution of Necessity
ROW	Right-Of-Way
RSD	Revenue Service Date
SCAQMD	Southern California Air Quality Management District
SCADA	Supervisory Control and Data Acquisition
SCC	Standard Cost Category
SCG	Southern California Gas Company
SEIS	Supplemental Environmental Impact Statement
SHPO	State Historic Preservation Office
SIT	System Integration Testing
SOE	Support of Excavation
SOQ	Statement of Qualification
SOV	Schedule of Values
SOW	Statement of Work
SP	Special Provision
SSMP	Safety and Security Management Plan
TBD	To Be Determined
TBM	Tunnel Boring Machine
TCC	Train Control Center
TCE	Temporary Construction Easement
TCP	Traffic Control Plan
TIFIA	Transportation Infrastructure Finance and Innovation Act
TIGER	Transportation Investment Generating Economic Recovery Traction Power Substation
TPSS	
	Threat Vulnerability Analysis
TVM	Ticket Vending Machine
UFS	Universal Fare System

LIST OF ABBREVIATIONS AND ACRONYMS (Cont.)

- UST Underground Storage Tank
- USDOT United States Department of Transportation
- VE Value Engineering
- WBS Work Breakdown Structure
- WP Work Package
- WTCP Worksite Traffic Control Plan
- YOE Year of Expenditure