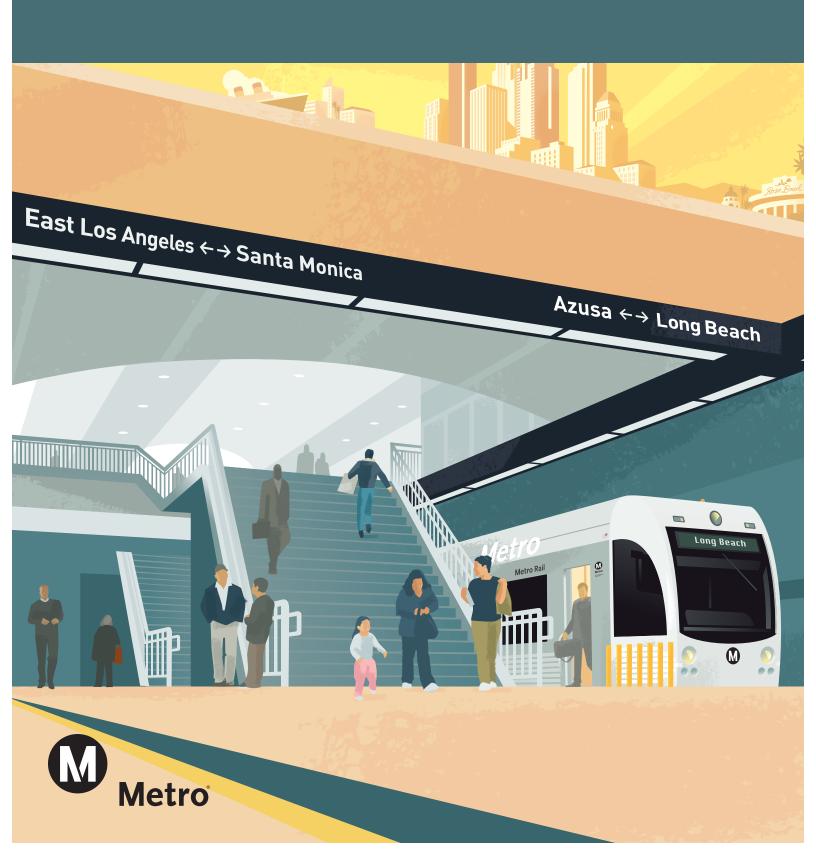
# **Regional Connector Transit Corridor**



# 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).

January 2017

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## **PROJECT SUMMARY**

### As of January 2017

REGIONAL CONNECTOR TR DESIGN CONSULTANT:	RANSIT CORRIDOR Connector Pa			CONSTRUCTION MAN					
TE	BM Assembly and T	esting		WORK/ACTIVITY DURI	ING PAST M	ONTH			
				mid-block clo Installation o Water and p Deck beams Utility hangin Preparation Shotcrete an	osure of tie-backs, ower reloca and deck p ig under der and testing id removal o	struts and w tion along Flo panels installa cking on Flov activities for of tie-backs a	ation along Flower St. ver St.		
EXPENDITURE STATUS (\$ 1	n Millions)			SCHEDULE ASSESSM	ENT				
ACTIVITIES	CURRENT BUDGET	EXPENDED AMOUNT	PERCENT	MAJOR SCHEDULE ACTIVITIES	PRIOR PERIOD	CURRENT PLAN	VARIANCE FROM PRIOR PERIOD		
		<b>0</b> /5/-		Environmental					
DESIGN	\$147.3	\$121.6	82.5%	FEIS / FEIR SEIS Flower St.	N/A N/A	04/26/12	Complete Complete		
<b>RIGHT-OF-WAY</b> \$120.5 \$69.0 57.2%		57.2%	Design	IN A	12/10/13	Complete			
				PE Notice to Proceed	N/A	01/04/11	Complete		
CONSTRUCTION	\$1,164.5	\$408.1	35.1%	Final Design complete	08/31/17	09/25/17	4 weeks anticipated from current design delay		
DTHER	\$377.9	\$108.5	28.7%	Right-of-Way					
TOTAL Current Budget reflects Boa Charges. Note: Expended amounts a			39.1% dget and Finance	All parcels available 08/15/18 08/15/18 0					
AREAS OF CONCERN				Notice to Proceed	07/07/14	07/07/14	Complete		
				Construction complete	05/15/21	10/29/21	0		
<ul> <li>entire alignment v Conversely, delay yield to extended Metro looks to con Commission and adherence to envi permitting as may</li> <li>Detailed design is power assets. Thi</li> </ul>	s underway to reloo is work requires co	te field proc ns to permit edules, and a n with the L mplemented ements – to cate the 6th ollaboration	luctivity. Is will directly added costs. A Police d by strict allow for timely /Flower DWP with City of Los	Revenue Service Date     07/28/21     12/28/21     0       CRITICAL ACTIVITIES / 3 MONTH LOOK AHEAD       •     Submittal and review of 100% design packages for 2nd/Broadway and 2nd/Hope stations, SEM Cavern and Communications; subsequent review of the related AFCs       •     Begin tunnel mining operations					
(TCPs), Bureau o etc. to minimize s challenges are als	and Caltrans relati of Engineering (BO schedule and cost so anticipated; eng es are planned acc	E) approval impacts. Sta gagement b	s, DWP efforts, akeholder	Complete pil     Complete 2r     Complete 2r     Complete ex     Complete ex	le installation nd Street de acavation of acavation ar	n at 2nd/Bro ecking station box a	adway Station at 2nd/Broadway r at 2nd/Hope Station ower St.		
ROW ACQUISITION PI	LAN CERTIFIED	ACQUIRED	REMAINING						
	5 5	4	1*						
PERMANENT PARCELS	-								
	31 16	15	3*						

## **PROJECT OVERVIEW & STATUS**

The Regional Connector Transit Corridor Project (Project) will link the current terminus of the Blue and Expo Lines at 7<sup>th</sup>/Metro Center to the Gold Line near the Little Tokyo/Arts District Station in a new underground alignment along Flower Street and 2<sup>nd</sup> 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 1<sup>st</sup> Street and the existing Gold Line to Pasadena along Alameda Street toward Union Station. The Revenue Service Date (RSD) is planned for December 28, 2021.

The alignment will extend underground from the 7<sup>th</sup> Street/Metro Center Station under Flower Street to 2<sup>nd</sup> Street. It will then proceed east underneath the 2<sup>nd</sup> Street tunnel to just west of Central Avenue where the alignment will veer northeast under privately-held property, Japanese Village Plaza. At 1<sup>st</sup> Street and Central, the tracks continue underground heading northeast under 1<sup>st</sup> and Alameda Streets. A junction ("Wye") will be constructed beneath the 1<sup>st</sup> 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 Atlantic Boulevard. One portal will be located northeast of the current Little Tokyo/Arts District Station and tracks. This portal will rise to the north within the City of LA DWP Maintenance Yard and connect to the existing LRT bridge over the US-101 freeway, allowing a connection to the Metro Gold Line to Pasadena. The portal will be connected to the 1<sup>st</sup> and Alameda junction by a new cut and cover box structure crossing beneath Temple Street and the parcel on the northeast corner of 1<sup>st</sup> and Alameda Streets, running immediately east of the existing Little Tokyo/Arts District Station and tracks. The second portal will be located within 1<sup>st</sup> 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 Atlantic Boulevard.

#### 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 assembly *and testing*, 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 *January 2017* increased by \$1.4M to \$1.41 billion or 79.9% of the Current Budget. The increase reflects RCC executed modifications. Project expenditures through *December 2016* are \$684.4 million or 38.7% of the budget. The expenditures to date cover all costs 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.

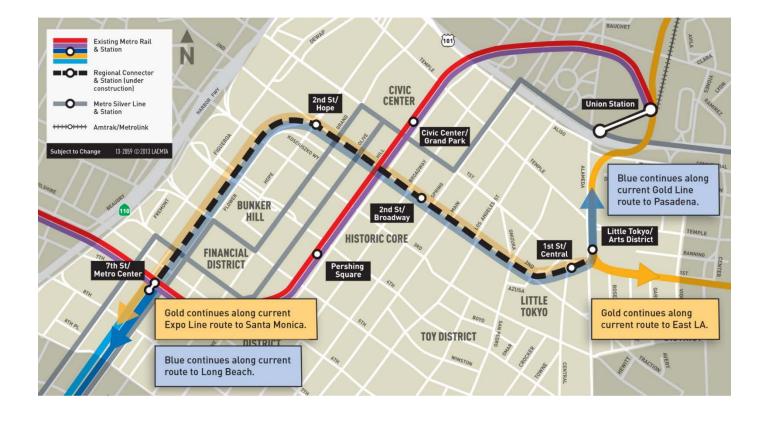
The project master schedule forecasts revenue service in 2021 through a simultaneous opening of both the Azusa and East LA legs of the Metro Gold Line.

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 on a monthly basis.

## **MANAGEMENT ISSUES / OPPORTUNITIES**

<u>Concern No. 1:</u>	Plans to relocate LADWP power assets under 6 <sup>th</sup> /Flower <i>could</i> 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. <i>Field investigations are also on-going in support of designs, and to advance site preparations for relocations</i> . Close collaboration with City of LA entities and Caltrans <i>continue</i> .
<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.
<u>Concern No. 3</u> :	Timely interface of 2 <sup>nd</sup> /Hope invert and TBM skid-through may be compromised.
Status/Action:	Invert placement operations are underway. Resource dedication to remaining eight (8) weeks of effort is prioritized to ensure every opportunity to advance is exercised.
<u>Concern No. 4</u> :	2 <sup>nd</sup> /Broadway Station construction faces coordination challenges with adjacent developers' (Tribune and Onni Group) design and schedules.
Status/Action:	Metro is meeting with developers on a regular basis and working through any design and construction coordination issues.

### **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

A number of utility owners have already relocated many of their assets and will continue to do so through early 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 has to 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. Additionally, the Metro Board approved a contract modification for ARCADIS to fund services through FY17. Reviews have been performed to determine funding needs beyond the present commitment.

# 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. Action to extend funding through FY17 was approved by the Metro Board on May 26, 2016. Reviews are underway to determine funding needs beyond the present commitment.

## **KEY MILESTONES SIX- MONTH LOOK AHEAD**

	Milestere						
	Milestone Date	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17
Complete Tieback Removal Pit (3rd/Flower)	01/06/17 A	$\bigcirc$					
Metro Board approved a LOP Budget increase	01/26/17 A						
Civil Segment B (Broadway to 1st/Central) - 85% Design	02/03/17		$\bigcirc$				
Initiate TBM Mining	02/06/17		$\bigcirc$				
Complete 2nd/Hope Excavation	02/10/17		$\bigcirc$				
2nd/Broadway Station Package - AFC	02/28/17		$\bigcirc$				
LADOT Approve Flower South SOE Traffic Control Plan (East Pi	03/03/17			$\triangle$			
Initiate 2nd/Broadway Station Excavation (Lift 2)	03/09/17			$\bigcirc$			
Complete Flower St Decking (North of 5th)	03/19/17			$\bigcirc$			
2nd/Broadway Station Package - AFC Approved	03/31/17						
Complete TBM Retrieval Pit Excavation/Mud Mat	04/06/17				$\bigcirc$		
Civil Segment B (Broadway to 1st/Central) - 100% Design	04/28/17				$\bigcirc$		
Complete Flower St Water Line (South of 5th)	04/27/17				$\bigcirc$		
Initiate Flower South East Pile Installation	04/28/17				$\bigcirc$		
Complete TBM Retrieval Pit Invert / Tunnel Eye	05/02/17					$\bigcirc$	
Complete 2nd/Hope CIP Invert	05/25/17					$\bigcirc$	
Complete Flower North Excavation and Support	06/19/17						$\bigcirc$
Civil Segment A (Flower to 2nd/Hope) - AFC Approved	06/23/17						
MTA Staff MTA Board Action		Federal Trainistration)	ransit	Utili	ty Compa	iny	
△ Other Agencies □ Contractors	O Design	Consultar	nt 〈	🔵 соэ	80 D/B C	ontractor	
"A" following date is actual and completed	* New						

### Regional Connector Transit Corridor Project Monthly Project Status Report

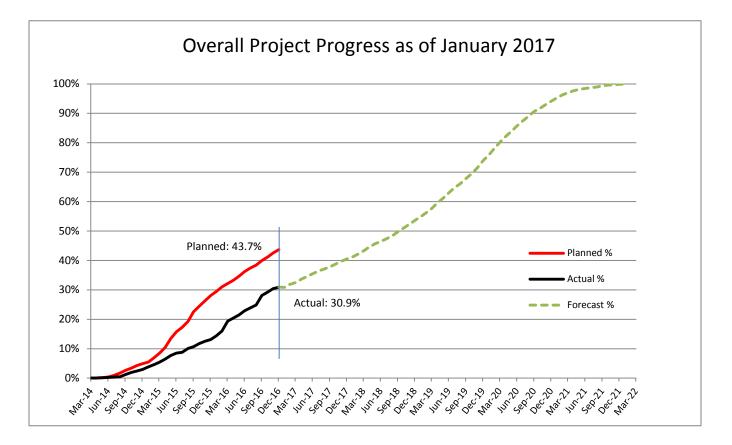
Own         Antivitation         Find         Data         Data
28-Dec-21         29-Jun-12 A         29-Jun-12 A         29-Jun-12 A         29-Sep-17         25-Sep-17         25-Sep-17         25-Sep-17         29-Mar-13 A         29-Mar-14 A         29-Mar-13 A         29-Mar-14 A         29-Mar-14 A         29-Sep-17         15-Aug-18         21-Feb-20         21-Feb-20         21-Feb-20         21-Feb-20         21-Feb-20         21-Feb-20         21-Feb-20         21-Jun-21         30-Mar-18         04-Jan-21         21-Jun-21
29-Juni-12 A       20-Feb-14 A       20-Feb-14 A         20-Feb-14 A       20-Feb-14 A       25-Sep-17         25-Sep-17       25-Sep-17       25-Sep-17         25-Sep-17       25-Sep-17       15-Aug-18         26-Dec-21       07-Juni-14 A       07-Juni-14 A         27-Oct-16 A       27-Oct-16 A       27-Oct-16 A         21-Jun-21       21-Jun-21       20-Mar-18         21-Jun-21       21-Jun-21       20-Mar-18
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Ineering         29-Mar-13 A         A
25-Sep-17       25-Sep-17         15-Aug-18       25-Sep-17         15-Aug-18       15-Aug-18         15-Aug-18       16-Aug-18         15-Aug-18       16-Aug-18         15-Aug-18       16-Aug-18         15-Aug-18       16-Aug-18         15-Aug-18       16-Aug-18         16-Aug-18       16-Aug-18         17-Aug-18       16-Aug-18         18-Aug-18       16-Aug-18         15-Aug-18
Is-Aug-18         Is-Aug-18           hed Equipment         21-Feb-20         15-Aug-18           28-Dec/21         28-Dec/21         28-Dec/21           0980 NTP         07-Jul-14 A         07-Jul-14 A           C0980 NTP         07-Jul-14 A         07-Jul-14 A           C014 D         02-Dec-20         02-Dec-20           Cot         02-Dec-20         02-Jul-21           Cot         04-Jul-21         04-Jul-18           Cut A         04-Jul-21         04-Jul-18           Cut A         04-Jul-21         04-Jul-18
hed Equipment         21-Feb-20         21-Feb-20           28-Dec-21         28-Dec-21         28-Dec-21           C0980 NTP         07-Jul-14 A         07-Jul-14 A           Iments         28-Dec-21         07-Jul-14 A           Iporary Facilities         27-Oct-16 A         0ct-16 A           Ing 3rd Parties)         02-Dec-20         02-Dec-20           CK         21-Jun-21         0ct-16 A           Out-an-21         04-Jan-21         04-Jan-21           Cut french         21-Jun-21         04-Jan-21
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NTP         07-Jul-14 A         • 07-Jul-14 A           28-Dec-21         28-Dec-21         • 07-Jul-14 A           28-Dec-21         28-Dec-21         • 07-Jul-14 A           Parties         27-Oct-16 A         • 27-Oct-16 A           Parties         02-Dec-20         • 1-Jul-21           30-Mar-18         04-Jan-21         • 04-Jan-21
Z8-Dec-21         Z8-Dec-21         Z7-Oct-16 A           Parties)         27-Oct-16 A         27-Oct-16 A           21-Jun-21         21-Jun-21         30-Mar-18           04-Jan-21         04-Jan-21         04-Jan-21
27-Oct-16 A     27-Oct-16 A       02-Dec-20     21-Jun-21       30-Mar-18     04-Jan-21       21-Jun-21     21-Jun-21
02-Dec-20 21-Jun-21 30-Mar-18 04-Jan-21 21-Jun-21
21-Jun-21 30-Mar-18 04-Jan-21 & Trench 21-Jun-21
30-Mar-18 04-Jan-21 21-Jun-21
26-Ma
Stations 07-Jul-21
Systems 02-sep-21
Testing 24-Nov-21
Start Up 28-Dec-21
Pre-Revenue Operations 28-Dec-21 28-Dec-21
Substantial Completion 28-04-21
RSD 28-Dec-21

## PROJECT SUMMARY SCHEDULE

### SCHEDULE MEASUREMENTS

	Status	Change from Last Period	Comment
Forecast Revenue Service	12/28/2021	0 CD	
TIFIA Revenue Service	12/28/2021	None	
FFGA Revenue Service	12/28/2021	None	
Final Design Progress:			
Contract C0980	96.2%	0.2%	Not impacting the critical path of the project
Construction Contracts Progress:			
Contract C0981R & C0980	26.7%	0.7%	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**

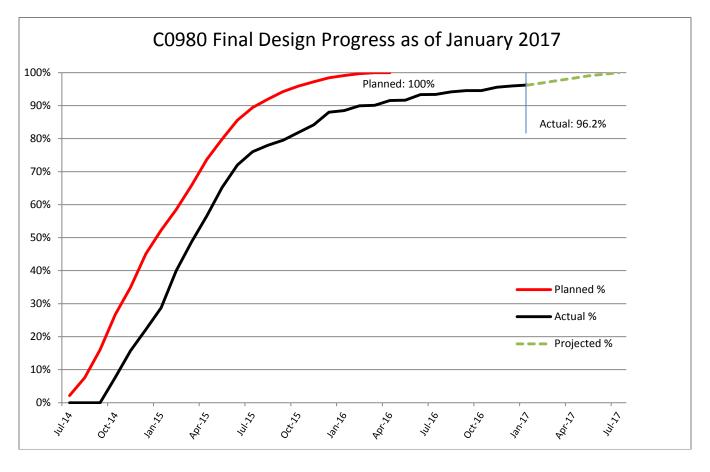
The above is based on the planned and actual progress of C0980 (Design-Build) as reflected in its re-baselined contract schedule, and the C0981 (AUR) as-built schedule.

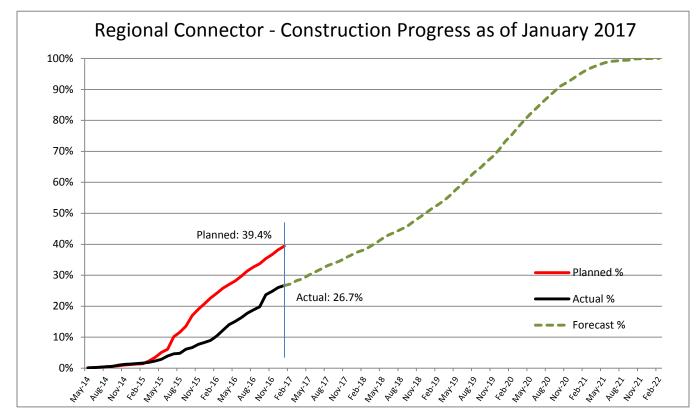
The cumulative overall project progress is 30.9%.

Final Design for C0980 commenced upon MTA issuing NTP on July 7, 2014. Cumulative final design progress is *96.2*% and the cumulative construction progress is *26.7*%.

**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, the design-builder for C0980, has designed, procured and delivered the tunnel boring machine (TBM) and equipment.

The TBM is currently at the west end of the 1<sup>st</sup>/Central Station where final testing is underway.

#### 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
PROCURE REBAR - FLOWER ST C/C	27-Feb-17	24-Jul-19
PROCURE HDPE - FLOWER ST C/C	27-Feb-17	8-Jul-19
FAB/DELIVER DECK BEAMS - FLOWER ST	6-Mar-17	28-Apr-17
ELEVATOR COORDINATION DRAWINGS - 1ST/CENTRAL	16-Mar-17	1-Jan-20
ESCALATOR COORDINATION DRAWINGS - 1ST/CENTRAL	21-Mar-17	24-Sep-19
FAB/DELIV HIGH VOLTAGE DISCONNECT - 1ST & CENTRAL	17-Apr-17	10-Jun-20
FAB/DELIVER DECK BEAMS - 2ND/BROADWAY	20-Apr-17	14-Jul-17
PROCURE RAIL - FLOATING SLAB MATERIALS	24-Apr-17	5-Feb-19
FAB/DELIV PRECAST TUNNEL LINER SEGMENTS	30-May-17	16-Feb-18
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

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

Activity Name	Early Finish	Need Date
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
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 assembly, launch and mining of the first leg of the twin tunnels. In parallel with the first leg of mining, completion of the TBM Retrieval Shaft on Flower Street is critical to support the transfer of the TBM equipment back to 1<sup>st</sup>/Central Station. The second leg of tunnel mining will then pace the critical path. After TBM mining, the SEM crossover structure east of the 2<sup>nd</sup>/Broadway Station will commence. Once the crossover structure is complete, track work installation will follow. The critical path continues through systems installation and testing from 1<sup>st</sup>/Alameda to 7<sup>th</sup>/Flower, followed by systems integration testing and pre-revenue operations.

## **PROJECT COST STATUS**

SCC CODE		FFGA BUDGET	IT ON ONIONAL -				ENT BUDGET COMMITMENTS EXPENDITURES CURRENT FO	COMMITMENTS		EXPENDITURES		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	761	250,085	0	238,790	1,292	58,891	681	250,233	1		
20	STATIONS, STOPS, TERMINALS, INTERMODAL	354,268	219,477	781	230,615	0	223,834	2,707	25,406	321	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	71,194	599,297	877	514,694	5,040	320,979	59,820	601,490	2,1		
50	SYSTEMS	69,667	73,848	-4	73,974	0	63,689	530	2,870	-1,304	73,974			
	CONSTRUCTION SUBTOTAL (10-50)	846,343	920,468	72,731	1,153,972	877	1,041,007	9,570	408,145	59,518	1,156,312	2,3		
60	ROW, LAND, EXISTING IMPROVEMENTS	115,889	74,208	10,038	92,742	24	74,219	22	46,453	10,038	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	92,266	376,406	459	256,177	3,668	203,253	90,787	376,406			
	SUBTOTAL (10-80)	1,239,963	1,268,925	175,035	1,639,395	1,360	1,387,679	13,260	659,529	160,342	1,641,735	2,3		
90	UNALLOCATED CONTINGENCY	135,399	126,892	28,965	89,946	0	0	0	0	43,658	87,606	-2,3		
100	FINANCE CHARGES	27,571	7,115	7,186	14,301	0	0	0	0	7,186	14,301			
	TOTAL PROJECTS 460228 & 860228 (10-100)	1,402,932	1,402,932	211,186	1,743,642	1,360		13,260	659,529		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	4	18,842	0	20,425			
	TOTAL PROJECTS 400228 & 460228 (EVN/PLAN'G)	0	24,200	0	26,500	0	26,500	4	24,917	0	26,500			
	400228, 460228, 860228 TOTAL	1,402,932	1,427,132	211,186	1,770,142	1,360	1,414,179	13,264	684,446	211,186	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 Life of Project Budget for Regional Connector Project 860228 to \$1.756 billion. Finance costs, estimated at \$14.3 million, are also reflected leading to \$1.770 billion. Budgets were adjusted throughout the SCC structure reflecting revised values as of December 2016.

#### Commitments:

Commitments increased by \$1.36 million this period to \$1.41 billion which represents 79.9% of the Current Budget. The increase is due to execution of Contract C0980 Modifications.

#### Expenditures:

Expenditures are cumulative through *December* 2016. Expenditures increased by \$13.26 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 \$684.4 million in expenditures to date represents *38.7*% of the Current Budget.

#### Current Forecast:

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

## **PROJECT COST STATUS (Cont.)**

CONCURRENT NON-FFGA ACTIVITIES (861228)

PROJECT COST STATUS BY FTA SCC

SCC CODE	Description	ORIGINAL BUDGET	CURRENT BUDGET		COMMITMENTS		EXPENDITURES		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	4	209	0	650	
	SUBTOTAL (10-80)	38,878	0	38,878	0	38,878	4	22,707	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	4	22,707	0	39,991	
	861228 TOTAL	39,991	0	39,991	0	38,878	4	22,707	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:**

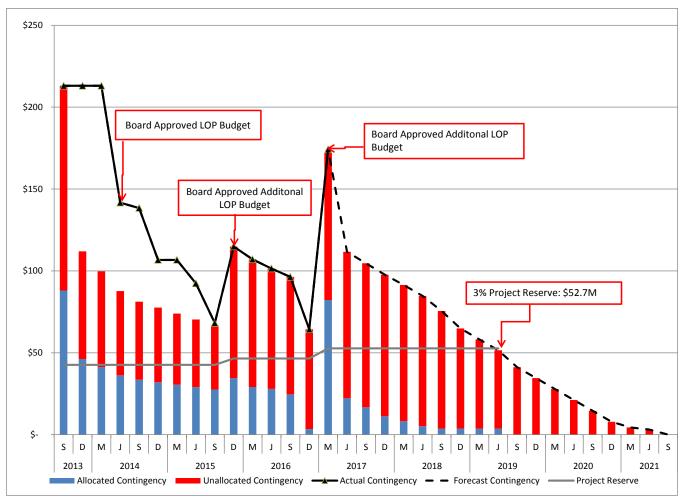
Commitments reflect actions through January 2017.

#### **Expenditures:**

Expenditures are cumulative through *December* 2016. Expenditures increased by *\$4k* this period for costs associated with Community Relations. The *\$22.7* million in expenditures *through December* 2016 represents 56.8% of the Current Budget.

#### **Current Forecast:**

There was no change to the Forecast for this period.

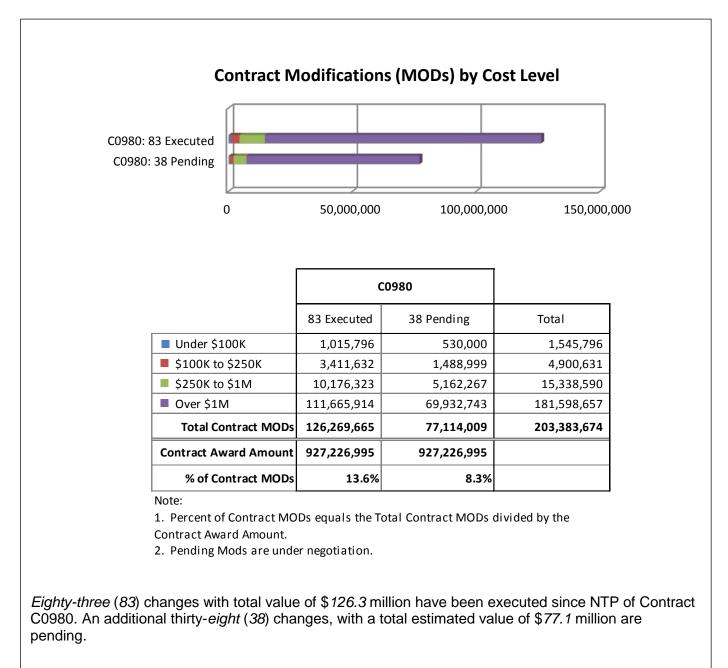


### **COST CONTINGENCY DRAWDOWN**

## 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. A revised drawdown plan for unallocated contingency, correlated to anticipate risk trends, was developed to monitor and measure drawdowns moving forward.

### SUMMARY OF CONTRACT MODIFICATIONS



### DISADVANTAGED BUSINESS ENTERPRISE (DBE) STATUS

#### Contract C0980 Regional Connector Transit Corridor Design-Build

As of *December 2016*\*:

- DBE Goal Design: 20%
- Current DBE Commitment Design: \$11.3M (22.63%)
- Current DBE Participation: 22.75%
- Twelve (12) Design DBE sub-consultants have been identified to date
- DBE Goal Construction: 18%
- Current DBE Commitment Construction: \$157.7M (18%)
- Current DBE Participation: 17.83%
- Fifty-three (53) Construction DBE sub-contractors have been identified to date

\*(Above information does not include January 2017 numbers as the audits do not begin until February 1<sup>st</sup>, for this period.)

### **PROJECT LABOR AGREEMENTS (PLA) STATUS**

Contract C0980 Regional Connector Transit Corrid	or Design-Build
<ul> <li>Targeted Worker Goal -</li></ul>	40.00%
Targeted Worker Current Participation -	<i>58.08</i> %
<ul> <li>Apprentice Worker Goal -</li></ul>	20.00%
Apprentice Worker Current Participation -	18.75%
<ul> <li>Disadvantaged Worker Goal -</li></ul>	10.00%
Disadvantaged Worker Current Participation -	<i>8.70</i> %

### **FINANCIAL/GRANT STATUS**

#### **Status of Funds Anticipated**

#### January 2017

FEDERAL - CMAQ	METRO SUBMITTED ON NOVEMBER 25, 2013 A GRANT APPLICATION OF \$64.0M TO THE FTA. GRANT APPROVAL WAS EXECUTED ON SEPTEMBER 24, 2014.				
	FUNDS ARE AVAILABLE FOR DRAW DOWN				
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 ON 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 DRAW DOWN.				
STATE PROP 1B PTMISEA	ALLOCATION REQUEST OF \$135.1M WAS APPROVED ON APRIL 24, 2013.				
	FUNDS ARE AVAILABLE FOR DRAW 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.				

#### Status of Funds by Source

#### January 2017

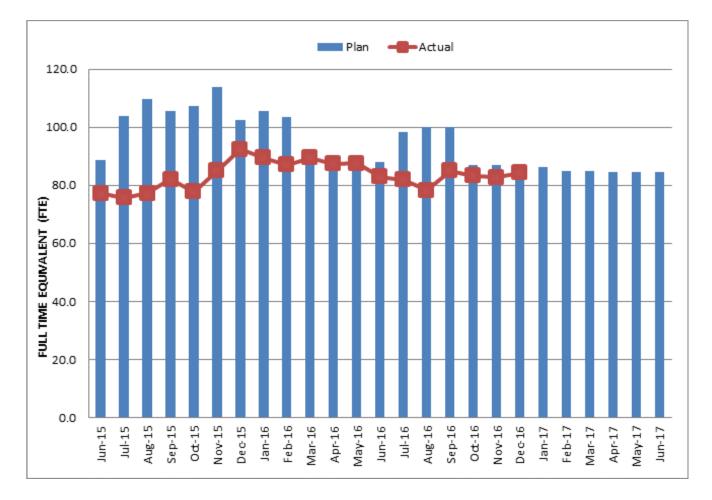
	(A) ORIGINAL	(B) TOTAL	(C) TOTAL	(D) COMMITMENT	(D/B) S	(E) EXPEND	(E/B) TURES	(F) BILLED TO F	(F/B) UNDING	
SOURCE	BUDGET	FUNDS ANTICIPATED	FUNDS	s	%			SOURCI		
				•	70	•	%	•	70	
FEDERAL - CMAQ	\$64.000	\$64.000	\$64.000	\$64.000	100%	\$40.937	64%	\$40.936	64%	
FEDERAL - SECTION 5309 NEW STARTS	\$669.900	\$669.900	\$265.000	\$669.900	100%	\$221.903	33%	\$204.898	31%	
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	\$284.730	\$284.730	\$248.315	87%	\$102.178	36%	\$102.178	36%	
MEASURE R	\$27.571	\$7.115	\$0.000	\$0.000	0%	\$0.000	0%	\$0.000	0%	
CITY OF LOS ANGELES	\$41.984	\$42.000	\$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	\$1.558.956	\$933.158	\$1,414.179	90.7%	\$684.446	42.0%	\$667.440	42.99/	

EXPENDITURES ARE CUMULATIVE THROUGH DECEMBER 31, 2016

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

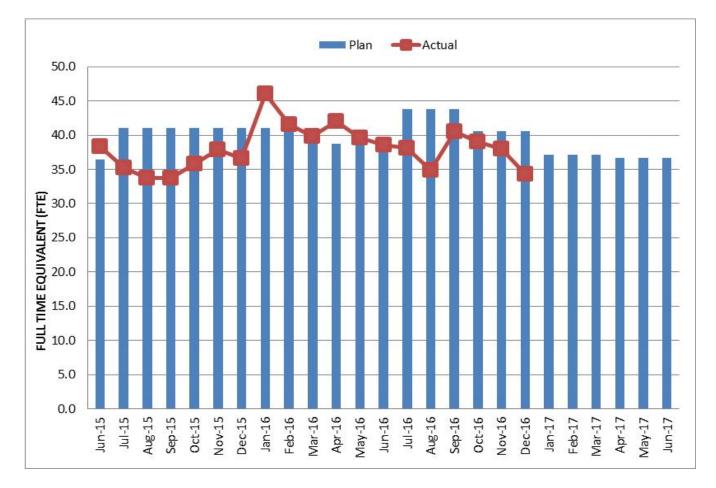
The overall FY17 Total Project Staffing plan averages 89.1 FTE's per month.

For *December* 2016, there were a total of *34.4 actual* FTEs for Metro's Project Administration staff and *50.0* FTEs for consulting staff. The total actual project staffing for *December* 2016 was *84.4* FTEs versus FTEs planned (*87.0*).

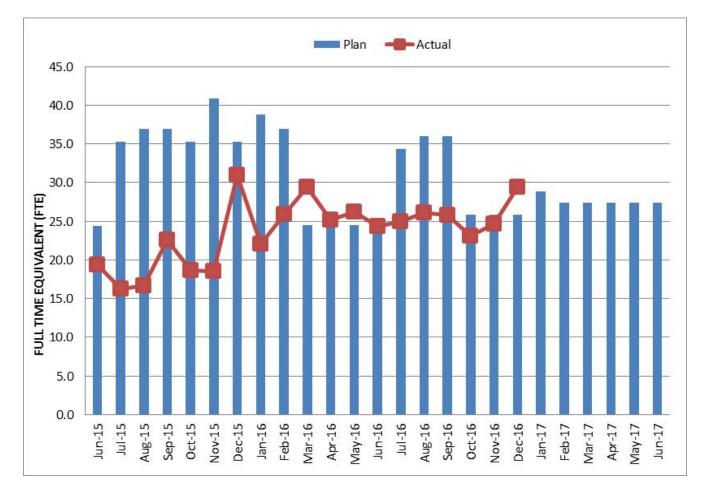
The shortfall in staffing has not impacted Metro's capability to effectively manage the Project. Review of staffing plans is *on-going to ensure needs are addressed*.

### Regional Connector Transit Corridor Project Monthly Project Status Report

### STAFFING STATUS (Cont.) METRO STAFF



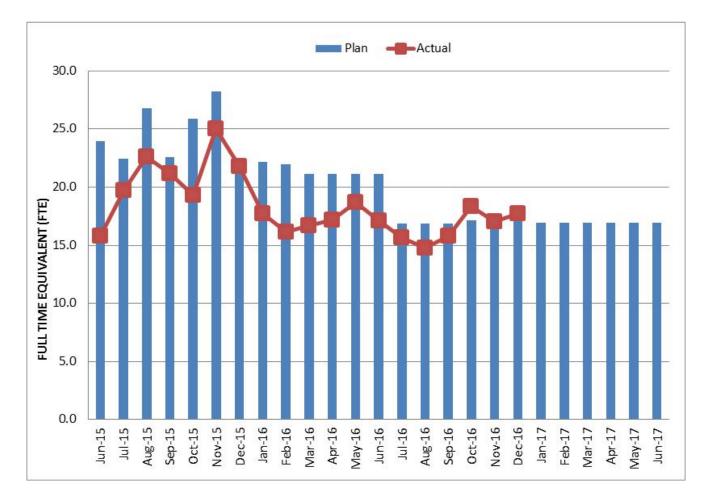
### STAFFING STATUS (Cont.) CONSTRUCTION MANAGEMENTSUPPORT SERVICES CONSULTANT



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.

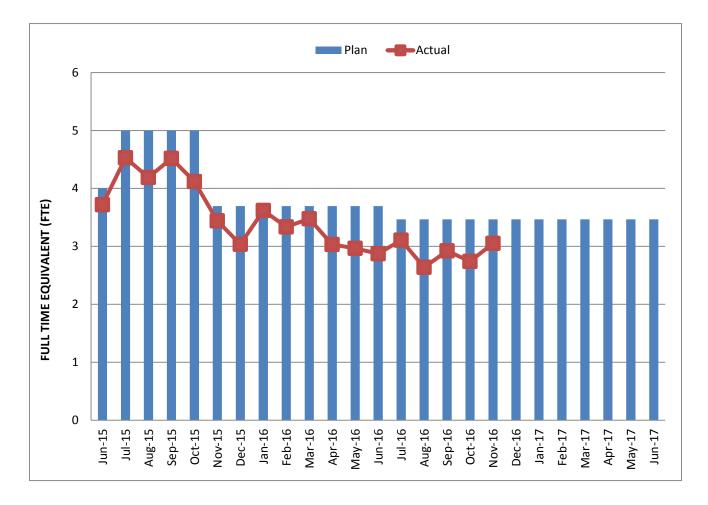
### STAFFING STATUS (Cont.) ENGINEERING SERVICES CONSULTANTS



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 Connecto	or - Real Estate Statu	s Summa	ry Novembe	r 30, 2016					
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	1
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	19	2
Pedestrian Bridge	420-1, 420-2, 420-3								1
Mangrove Fan Plant	TBD								1
Grand Total	36	21	7	23	23	12	5	19	4

## **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 is awaiting *the condemnation trial set for April 4, 2017*.

#### **Broad Collection**

• Broad's Board approved the acquisition agreement at the end of October 2016. The Metro Board will be asked to approve the acquisition agreement at the February 2017 meeting after the Board signs the acquisition documents.

#### 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)

- A formal offer has been presented to LADWP for the TCE and permanent easement areas.
- LADWP submitted its estimate of the modification required to their yard to continue their operations. The *estimate is being reviewed by the Project.*

## **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 *January three (3)* CQWPs were received and reviewed; most notably, for Tunneling and Grouting by TBM.
- Metro QA also reviewed:
  - Test results for Portland Cement concrete, tie-back pull tests, and structural welding MT/UT.
  - Compensation Grouting Pre-Conditioning Report.
  - ITP (221) for Assembly of Pre-Cast Concrete Tunnel Liners and ITP (222) for Annular Backfill Grouting of Bored Tunnel.
  - CWI, Level II NDE along with current Qualifications Records for Oscar Hernandez.
  - Tie-back testing at 2<sup>nd</sup>/Hope Station SOE for Levels 4, 5 & 6 (Walls C & G).
- Contractor testing performed to date are as follows:
  - 1. Portland cement concrete 28-day test results: 671, number accepted: 671
  - 2. Asphalt concrete density tests results: 197, number accepted: 197
  - 3. Soil compaction (in-situ density) tests performed to date: *168*, number accepted: *168*
  - 4. Welding MT/UT testing to date is: 5997 number accepted: 5997
- Attended "Readiness Review" meetings with RCC.
- Performed oversight verification of RCC's design and construction activities, as well as ongoing oversight monitoring of RCC's QA/QC activities.
- There were no NCRs issued during the month of January 2017, by RCC Quality or Metro QA.
- Metro QA Performed Surveillance (C0980-SUR2017-01) for drawing inconsistencies on DU02 Change Notice Drawings. A QAR (QAR C0980-QAR2017-S01-001) was issued as a result of this surveillance. RCC's response was that the drawings will include corrections to the inconsistencies in the next issue of the drawings. A follow-up surveillance will be performed to verify that all consistencies identified have been corrected.

### **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 will be 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. In addition, the Vibration Control Plan Quarter 1 Update for 2017 was amended to include Appendix C: Rapid Shutdown Procedure, which is in place and shall be implemented in the event that maximum acceptable vibration levels are breached. The update to the Vibration Control Plan was approved by Metro on January 30, 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 16<sup>th</sup> Quarterly Mitigation Monitoring and Reporting Plan (MMRP) covering November 2016 to January 2017, and plans to submit the report to the FTA no later than February 14, 2017.
- RCC identified thirteen (13) trees requiring removal. RCC submitted a request a for a tree removal permit from Urban Forestry in August 2016. The permit (1-123807031) was issued on September 19, 2016. The team is currently working on the 85% landscape design plans for Segment A and Segment B.
- On January 31, 2017, Metro submitted the 4<sup>th</sup> Semi-Annual Cultural Resources Report to the FTA and the SHPO, documenting cultural resources monitoring from July 2016 to December 2016. Reporting will continue on a semi-annual basis until grounddisturbing 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 construction activities: utility *investigation and* relocation on Flower St; geotechnical instrumentation *installation project wide and cut and cover activities on Flower St*. Distributed *fifteen* (15) 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 *sixty-two* (62) stakeholders throughout the project alignment on the above activities.
- Held Regional Connector Community Leadership Council Committee meetings for station areas of: 1<sup>st</sup>/Central, 2<sup>nd</sup>/Hope, 2<sup>nd</sup>/Broadway and Flower St./Financial District committees with reviews of station naming, landscaping, mitigations and construction activities.
- Continued bi-weekly and weekly meetings with: LA City Councilmember District 14, the Mayor's Office, Los Angeles Times, Common Wealth Partners, and the Bonaventure Hotel.

#### Social Media Outreach and Marketing Efforts

• Facebook had a 5% increase to 8,247 "likes" with a total reach of 241,414. Twitter had 25K impressions with 2,302 total followers and 25 mentions. The most popular campaigns included a project video of Angeli, the project's tunnel boring machine, reaching its start-of-tunneling position with approximately 88K views. On Twitter, neighborhood attractions in the vicinity of Regional Connector generated approximately 4K impressions, while the most popular construction Tweet was the Flower St. weekend closures to perform cut and cover work with 825 impressions.

#### **Community Relations**

- Implemented Fortune Friday, an Eat, Shop, Play (ESP) social media contest designed to engage and reward loyal customers who support small businesses impacted by construction along the alignment. ESP is a construction mitigation program to increase exposure of businesses through social media and in-community promotions of area businesses.
- 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
- Presented Art Program Update to Station Area Committees
- 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 on a daily basis 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 no recordable injuries in the month of January 2017.
- C0980 Contractor RCC reported 61,741 work-hours for the month of December 2016 (work-hours are reported with one-month lag time). The total C0980 Contract to Date work hours through December 2016 are 1,252,624 with a total of six (6) 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 December 2016 is now 1,363,683 hours with seven (7) recordable injuries. Project Total Recordable Injury Rate is now 1.0.

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 currently performing potholing in and around the intersection of Flower Street and 6<sup>th</sup> Street and coordinating with LADWP and the City of Los Angeles in preparation for relocation of the local LADWP electrical system. Metro is working with both parties to facilitate coordination of the relocation design and construction in preparation for future decking installation.
- Metro and RCC met with the Los Angeles Bureau of Engineering (LABOE) to seek a partial approval of the 6<sup>th</sup> and Flower power relocation plan in order to save time on the construction schedule. LABOE agreed to Metro's suggestion, and the power relocation plan was submitted to LABOE for review on January 30, 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 *mid-April of* 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 in order 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 14<sup>th</sup> Office to obtain Peak Hour Exemptions.

### 1<sup>st</sup>/Central, 2<sup>nd</sup>/Broadway and 2<sup>nd</sup>/Hope Stations:

- Work activities at the intersection of 1<sup>st</sup>/Alameda have currently reached a Steady State Phase, where construction of the future tunnel portal structure is underway. The intersection of the 1<sup>st</sup> and Alameda Streets has been decked, and underground operations are proceeding. Work is anticipated to last until approximately 2020. Future closures are anticipated at the intersection of Temple and Alameda Streets to perform utility relocations and piling/decking. Metro will be reaching out to the appropriate agencies to obtain street closure approvals.
- The project continues to perform utility relocations, and soldier piling/decking operations in support of the 2<sup>nd</sup>/Broadway Station construction. The street closure along 2<sup>nd</sup> Street (Broadway to Spring St, Phase 1) installed on October 15, 2016 recently transitioned to Phase 2 on the weekend of December 3, 2016. Phase 2 involves a similar closure of 2<sup>nd</sup> Street as Phase 1, but includes a partial K-rail lane closure on Southbound Spring Street (between 1<sup>st</sup> & 3<sup>rd</sup> Sts.) at 2<sup>nd</sup> Street. Starting December 9, 2016 and for approximately 13 weekends, the 2<sup>nd</sup> St & Spring Sts. intersection will be closed to support aforementioned work. Activities are expected to last until March 2017 followed by Steady State. As necessary, Metro will continue to coordinate with applicable City agencies to facilitate station construction.
- AM and PM exemptions for the 2<sup>nd</sup>/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 2<sup>nd</sup>/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 4<sup>th</sup> and 5<sup>th</sup> 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 place k-rail on the southeast corner of the 3<sup>rd</sup>/Flower Streets intersection. Work supports construction of a tie-back removal shaft 25' (diameter) x 60' (deep) to facilitate future tunneling activities near the Flower Street area. Original approval was granted from August 8, 2016 to November 18, 2016. By working together with City agencies, an extension was obtained until February 18, 2017 to continue construction of the shaft.

## 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 *January 2017*, LAPD approved time extensions for four (4) existing variances for the following locations:

- At the 1<sup>st</sup>/Alameda area, one (1) variance was given for *rough excavation and soldier piling work*.
- At the 2<sup>nd</sup>/Broadway area, *two* (2) variances were given for soldier piles/decking and *installation of wet and dry utilities*.
- At the Flower Street area, one (1) variance was given for electrical and vault installation work.

In January 2017, LAPD received two (2) night time variance applications for their review and approval for the locations below:

- At Flower Street between 4<sup>th</sup> and 5<sup>th</sup> Streets, 1 (one) variance application was submitted for excavation and concrete work
- At Flower Street 250 feet of north of 4<sup>th</sup> Street to 5<sup>th</sup> Street and 4<sup>th</sup> Street between Flower Street to midblock of Figueroa, one (1) variance application was submitted for the retrieval of the Tunnel Boring Machine.

## **CPUC CROSSING SUMMARY**

### **Current Status**

Contract C0980 requires RCC to design and obtain CPUC approval for the temporary relocation of the existing at-grade crossing of 1<sup>st</sup> Street adjacent to Alameda Street, approximately 500 feet east of its current location at 1<sup>st</sup>/Hewitt Streets. Also, the south Little Tokyo Station pedestrian crossing will have to be re-opened to provide pedestrian access. The temporary modification of the existing at-grade crossing will remain in-place until construction of the underground Wye junction necessitates closure of the existing Little Tokyo Station, at which point bus bridging will be implemented to transfer passengers between the Pico/Aliso and Union Station. When complete, the Regional Connector Project will no longer have an at-grade crossing at the intersections of 1<sup>st</sup>/Alameda and Temple/Alameda Streets.

On May 13, 2015, RCC received CPUC approval for the temporary relocation of the existing at-grade crossing of 1<sup>st</sup> Street adjacent to Alameda Street. Additionally, on May 26, 2015, RCC received CPUC approval of the South Little Tokyo Station pedestrian crossing Form GO-88B application package.

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 <sup>nd</sup> 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 <sup>st</sup> St. and Alameda
December 2014	Metro completed Field Vibration Testing for existing Expo and Gold Lines
January 2015	Demolish Buildings at 1 <sup>st</sup> /Central Station
February 2015	Metro approved the Baseline Schedule for C0980 D/B Contract
March 2015	RCC started 2 <sup>nd</sup> /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 <sup>st</sup> /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 <sup>nd</sup> /Broadway intersection.
March 2016	RCC completed Bus Bridge # 1 (Shoofly Tie-In at Little Tokyo) work.
March 2016	Excavation of 1 <sup>st</sup> /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 <sup>st</sup> East of Alameda Street.
June 2016	RCC completed excavation at 1 <sup>st</sup> /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 <sup>nd</sup> /Broadway Station (West Hammer Head)
July 2016	RCC Initiated CIP invert at 1 <sup>st</sup> /Central Station Box
August 2016	RCC completed 36" waterline replacement at 1 <sup>st</sup> /Alameda

# CHRONOLOGY OF EVENTS (Cont.)

September 2016	RCC completed temporary decking at 1 <sup>st</sup> /Alameda intersection (Wye)
October 2016	Metro performed TBM lowering ceremony
October 2016	RCC completed CIP invert at 1 <sup>st</sup> /Central Station Box
November 2016	RCC completed CIP invert at Mangrove Launch Pit and Wye
December 2016	RCC completed Phase 1, 2 <sup>nd</sup> Street Decking in front of LA Times Bldg.
January 2017	Metro Board approved a LOP Budget increase

# **CONSTRUCTION CONTRACTS**

Description: Design-Build Contract	Contract No. C0980			
Contractor: Regional Connector Constructors	Status as of: January 28, 2017			
<ul> <li>Work Completed:</li> <li>besign</li> <li>Metro completed review and provided for record only comments on DU15 Hope Station, Level 3 and 4 Tieback Testing Sheets</li> <li>Metro completed review and comment resolution for DU08 1st/Central AFC Design Submittal</li> <li>Metro completed review and approved the Train Control Circuit Data submittal</li> <li>Metro completed "for record only" review of Flower Street utility hanging submittals</li> <li>Metro completed review and rejected the TC - Power Distribution - UPS Product Data</li> <li>Metro provided support in review and response to RCC submitted Requests for Information</li> </ul>	<ul> <li>Status as of: January 28, 2017</li> <li>Major Activities (In Progress): Design <ul> <li>Metro will continue coordination of Alameda Fan Plant including right of way, venting and emergency exiting</li> <li>Metro will continue coordination of 6th/Flower DWPPS relocation preliminary engineering</li> <li>Metro will continue review and coordination of the DU16 Broadway Decking submittals</li> <li>Metro will continue review and coordination of the DU14 Flower Street Decking submittals</li> <li>Metro will continue review and coordination of the DU14 Flower Street Decking submittals</li> <li>Metro will continue review and coordination of the DU14 Flower Street Decking submittals</li> <li>Metro will continue review and coordination of the DU14 Flower Street Decking submittals</li> <li>Metro will continue review of sack restoration design with RCC and city families</li> <li>Metro will continue review of weekly monitoring reports</li> <li>Metro will continue review of Backfill and Check Grouting of TBM-Tunnel Annulus</li> </ul> </li> <li>Construction</li> <li>StvCentral</li> <li>Continue work on TBM testing and commissioning</li> <li>Continue testing of foam and grout plant equipment at 1<sup>st</sup>/Central Station</li> <li>Continue Station excavation and begin installation of struts</li> <li>Znd/Hope</li> <li>Continue station excavation and lagging at 2<sup>nd</sup>/Hope Station</li> <li>Continue station excavation and lagging at 2<sup>nd</sup>/Hope Station</li> <li>Continue station tie-back installation at 2<sup>nd</sup>/Hope Station</li> <li>Continue excavation and installation at 4<sup>th</sup>/Flower during weekend closures</li> <li>Continue deck beam and decking installation at 4<sup>th</sup>/Flower during weekend closures</li> <li>Continue deck beam and decking installation at 4<sup>th</sup>/Flower during weekend closures</li> <li>Continue excavation and utility hanging beneath decking on Flower Street</li> <li>Continue excavation and utility hanging beneath decking on Flower Street</li> <li>Continue excavation of TBM Retrieval Shaft</li> <li>Project-wide</li> <li>R</li></ul>			

# **CONSTRUCTION CONTRACTS (Cont.)**

Description: Design-Build Contract	Contract No. C0980
Contractor: Regional Connector Constructors	Status as of: January 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.	<ul> <li>Major Activities Next Period: Design</li> <li>Metro will begin review of the AFC station design packages for 2nd/Hope</li> <li>Metro will begin design revisions to 1st/Central 10-inch sewer package for submittal to LABOE and submit to LABOE for review</li> <li>Metro will package LADWP conduit plans, RCC UR plans, and CPJV profiles for submittal of Lateral 1 and Mainline B to LABOE for 6th/Flower Power Relocation Design</li> <li>Comstruction 1st/Central/Tunneling</li> <li>Complete TBM testing and begin tunnel mining operations 2nd/Broadway</li> <li>Complete TBM testing and begin tunnel mining operations 2nd/Broadway</li> <li>Complete excavation of station box at 2<sup>nd</sup>/Broadway 2nd/Hope</li> <li>Complete excavation of station box at 2<sup>nd</sup>/Broadway 2nd/Hope</li> <li>Complete installation at 5<sup>th</sup>/Flower</li> <li>Complete invert pour Flower</li> <li>Begin pile installation at 5<sup>th</sup>/Flower</li> <li>Complete waterline shutdowns and tie-ins</li> <li>Complete excavation of TBM Retrieval Shaft on Flower St.</li> <li>Complete distallation of temporary power sub-station at 5th/Flower</li> <li>Project-wide</li> <li>Complete geotechnical monitoring instrumentation along the alignment</li> </ul>

# **CONSTRUCTION CONTRACTS (Cont.)**

Description: Design-Build Contract		Contract No. C0980 Status as of: January 28, 2017					
Contractor: Regional Co							
Schedule Summary:			Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs
Date of Award:	5/6/2014	Notice to Proceed	07/07/14		07/07/14	07/07/14	0
Notice to Proceed:	7/7/2014	Milestone 1:	10/22/20		10/30/21	10/30/21	0
Original Contract Duration:	2579 CD	Milestone 2:	06/14/20		Delete	d (Mod #74)	
		Milestone 3:	05/15/16		Deleted (Mo	od #10 / Mod :	#32)
		Milestone 4:	05/27/18		Deleted (Mo	od #10 / Mod :	#32)
Current Contract Duration:	2579 CD	Milestone 5:	08/19/19		Delete	d (Mod #74)	
Elapsed Time from NTP:	936 CD	Milestone 6:	09/18/19		Delete	d (Mod #74)	
		Milestone 7:	10/10/15		Delete	d (Mod #74)	
		Milestone 8:	04/22/18		01/03/21	01/03/21	0
		Milestone 9A:	07/14/20		Delete	d (Mod #74)	
		Milestone 9B:	10/22/20		Delete	d (Mod #74)	
		Milestone 10:	10/12/20 Deleted (Mod #74)				
		Milestone 11:	10/27/20	Deleted (Mod #74)			
		Milestone 12:	03/01/21		03/05/22	03/05/22	0
Physical Percent Complete as of : 01/28/17		Cost Summary:			\$ In millions		
Design	96.2%	1. Award Value:				927.2	
Construction	25.1%	2. Executed Modifications: 176.4					
Total Incurred Cost	40.3%	3. Approved Char	nge Orders:			0.1	
* Note: Physical completion assessment excludes mobilization, general mobilization and Provisional Sum.		4. Current Contract Value (1+2+3):			1103.7		
		5. Incurred Cost:		445.3			

### Regional Connector Transit Corridor Project Monthly Project Status Report

# **CONSTRUCTION PHOTOS**



Muck conveyor at Mangrove/Launch Pit



Excavation and utility exposure in  $2^{\mbox{\scriptsize nd}}$  Street



Decking on 2<sup>nd</sup> Street



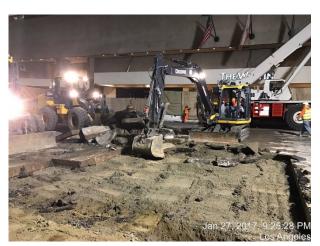
Dewatering at Hope Station box excavation



Excavation with conveyor belt beneath decking on Flower



Surveying grades to invert at 2<sup>nd</sup>/Hope Station



Removal of asphalt for Decking along Flower

### 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.
RIGHT-OF-WAY	Includes purchase cost of parcels, easements, right-of-entry permits, escrow fees, contracted real estate appraisals and tenant relocation.
VEHICLES	Includes the purchase of LRT vehicles and spare parts for the
	project.
PROFESSIONAL SERVICES	project. Includes design engineering, project management assistance, construction management support services, legal counsel, agency staff costs, and other specialty consultants
	Includes design engineering, project management assistance,

### LIST OF ABBREVIATIONS AND ACRONYMS

AFCApproved for ConstructionAPEAdvanced Preliminary EngineeringATCAutomatic Train ControlATSACAutomatic Train ControlAURAdvanced Utility RelocationBAFOBest and Final OfferBIMBuilding Information ModelingCADDComputer Aided Drafting and DesignCALTRANSCalifornia Department of TransportationCCTVClosed Circuit TelevisionCDCalendar DayCEQACalifornia Environmental Quality ActCMConstruction ManagerCMAQCongestion Mitigation and Air Quality Improvement ProgramCNChange NoticeCOChange NoticeCOChange NoticeCOChange NoticeCOChange NoticeCPMCritical Path MethodCPUCCalifornia Public Utilities CommissionCQWPConstruction Quality Work PlanCRCamera ReadyCSPPConstruction Safety Phasing PlanCTCCalifornia Transportation CommissionCUDColitoria Public UtilitiesDOTDesign BuildDBDesign BuildDBDesign BuildDBDesign BuildDBDesign BuildDDRDesign BuildDRDesign Impact StatementEISEnvironmental Impact StatementFARFederal Acquisition ReguestDOTDepartment of TransportationDWPDepartment of TransportationDWPDepartment of Transportation <th></th> <th></th>		
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FTA Federal Transit Administration		
FTE Full Time Equivalent	FIF	Full Lime Equivalent

## LIST OF ABBREVIATIONS AND ACRONYMS (Cont.)

GBN	Ground Borne Noise
GBR	Geotechnical Baseline Report
GDSR	Geotechnical Design Summary Report
HABS/HAEF	R Historical 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
NTP	Notice to Proceed
OCC	Operations Control Center
OCR	Overhead Conductor Rail
OCS	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.)

PMProject ManagerPMOCProject Management Oversight ConsultantPMPProject Management PlanPRProject ReportQAQuality AssuranceQARQuality Assurance ReportQCQuality ControlQPSRQuarterly Project Status ReportRAMPReal Estate Acquisition Management PlanRCCRegional Connector ContractorsRCMPRisk Assessment Management PlanRFCRequest for ChangeRFPRequest for ProposalsRHARisk Hazard AnalysisROCRail Operations CenterRODRecord of DecisionROMRough Order of MagnitudeRONResolution of NecessityROWRight-Of-WayRSDRevenue Service DateSCAQMDSouthern California Air Quality Management DistrictSCADASupervisory Control and Data AcquisitionSCCStandard Cost CategorySCGSouthern California Gas CompanySEISSupplemental Environmental Impact StatementSHPOState Historic Preservation OfficeSITSystem Integration TestingSOESupport of ExcavationSOWStatement of VorkSPSpecial ProvisionSSMPSafety and Security Management PlanTBDTo Be DeterminedTBMTunnel Boring MachineTCCTrain Control CenterTCETemporary Construction EasementTCPTraffic Control PlanTIFIATransportation Infrastructur	PLA	Project Labor Agreement
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	TIGER	•
TVA Threat Vulnerability Analysis	TVA	Threat Vulnerability Analysis
TVM Ticket Vending Machine	TVM	
UFS Universal Fare System	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