

# **Metro**

*Los Angeles County Metropolitan Transportation Authority  
One Gateway Plaza  
3rd Floor Board Room*



## **Agenda - Final**

**Thursday, May 18, 2017**

**10:15 AM**

**One Gateway Plaza, Los Angeles, CA 90012,  
3rd Floor, Metro Board Room**

### **System Safety, Security and Operations Committee**

*Mike Bonin, Chair*

*Kathryn Barger, Vice Chair*

*Robert Garcia*

*Paul Krekorian*

*Mark Ridley-Thomas*

*Carrie Bowen, non-voting member*

*Phillip A. Washington, Chief Executive Officer*

**METROPOLITAN TRANSPORTATION AUTHORITY BOARD RULES**  
(ALSO APPLIES TO BOARD COMMITTEES)

**PUBLIC INPUT**

A member of the public may address the Board on agenda items, before or during the Board or Committee's consideration of the item for one (1) minute per item, or at the discretion of the Chair. A request to address the Board should be submitted in person at the meeting to the Board Secretary. Individuals requesting to speak on more than three (3) agenda items will be allowed to speak up to a maximum of three (3) minutes per meeting. For individuals requiring translation service, time allowed will be doubled.

Notwithstanding the foregoing, and in accordance with the Brown Act, this agenda does not provide an opportunity for members of the public to address the Board on any Consent Calendar agenda item that has already been considered by a Committee, composed exclusively of members of the Board, at a public meeting wherein all interested members of the public were afforded the opportunity to address the Committee on the item, before or during the Committee's consideration of the item, and which has not been substantially changed since the Committee heard the item.

The public may also address the Board on non-agenda items within the subject matter jurisdiction of the Board during the public comment period, which will be held at the beginning and/or end of each meeting. Each person will be allowed to speak for up to three (3) minutes per meeting and may speak no more than once during the Public Comment period. Speakers will be called according to the order in which the speaker request forms are received. Elected officials, not their staff or deputies, may be called out of order and prior to the Board's consideration of the relevant item.

In accordance with State Law (Brown Act), all matters to be acted on by the MTA Board must be posted at least 72 hours prior to the Board meeting. In case of emergency, or when a subject matter arises subsequent to the posting of the agenda, upon making certain findings, the Board may act on an item that is not on the posted agenda.

**CONDUCT IN THE BOARD ROOM** - The following rules pertain to conduct at Metropolitan Transportation Authority meetings:

**REMOVAL FROM THE BOARD ROOM** The Chair shall order removed from the Board Room any person who commits the following acts with respect to any meeting of the MTA Board:

- a. Disorderly behavior toward the Board or any member of the staff thereof, tending to interrupt the due and orderly course of said meeting.
- b. A breach of the peace, boisterous conduct or violent disturbance, tending to interrupt the due and orderly course of said meeting.
- c. Disobedience of any lawful order of the Chair, which shall include an order to be seated or to refrain from addressing the Board; and
- d. Any other unlawful interference with the due and orderly course of said meeting.

**INFORMATION RELATING TO AGENDAS AND ACTIONS OF THE BOARD**

Agendas for the Regular MTA Board meetings are prepared by the Board Secretary and are available prior to the meeting in the MTA Records Management Department and on the Internet. Every meeting of the MTA Board of Directors is recorded on CD's and as MP3's and can be made available for a nominal charge.

## DISCLOSURE OF CONTRIBUTIONS

The State Political Reform Act (Government Code Section 84308) requires that a party to a proceeding before an agency involving a license, permit, or other entitlement for use, including all contracts (other than competitively bid, labor, or personal employment contracts), shall disclose on the record of the proceeding any contributions in an amount of more than \$250 made within the preceding 12 months by the party, or his or her agent, to any officer of the agency, additionally PUC Code Sec. 130051.20 requires that no member accept a contribution of over ten dollars (\$10) in value or amount from a construction company, engineering firm, consultant, legal firm, or any company, vendor, or business entity that has contracted with the authority in the preceding four years. Persons required to make this disclosure shall do so by filling out a "Disclosure of Contribution" form which is available at the LACMTA Board and Committee Meetings. Failure to comply with this requirement may result in the assessment of civil or criminal penalties.

## ADA REQUIREMENTS

Upon request, sign language interpretation, materials in alternative formats and other accommodations are available to the public for MTA-sponsored meetings and events. All requests for reasonable accommodations must be made at least three working days (72 hours) in advance of the scheduled meeting date. Please telephone (213) 922-4600 between 8 a.m. and 5 p.m., Monday through Friday. Our TDD line is (800) 252-9040.

## LIMITED ENGLISH PROFICIENCY

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**NOTE: ACTION MAY BE TAKEN ON ANY ITEM IDENTIFIED ON THE AGENDA**

## CALL TO ORDER

## ROLL CALL

APPROVE the Consent Calendar Item: 17.

**Consent Calendar items are approved by one motion unless held by a Director for discussion and/or separate action.**

### CONSENT CALENDAR

- 17 RECEIVE AND FILE **monthly update on Transit Policing performance.** [2017-0278](#)
- Sponsors:** System Safety and Security and Operations Committee
- Attachments:** [Attachment A - Transit Policing Division - March 2017](#)  
[Attachment B - Matrix of Bus Operator Assault Suspects](#)

### NON-CONSENT

- 18 **Operations Employee of the Month** [2016-0985](#)
- Sponsors:** Operations (Department)
- 19 RECEIVE oral **report on System Safety, Security and Operations.** [2017-0230](#)
- Sponsors:** Operations (Department)
- 20 AUTHORIZE the Chief Executive Officer to: [2016-1004](#)
- A. AWARD Bench Contract No.PS37755 to consultant firms CH2M Hill, Inc., LTK Engineering Services, Mott McDonald, LLC, WSP/Parsons Brinkerhoff, and STV Inc., to establish a general account for consultant support services that will be utilized for **Rail Vehicle and Rail Systems Engineering Consultant Services**, for an amount not-to-exceed \$8,027,100, subject to resolution of protest, if any; and
- B. EXECUTE Task Work Orders within the approved total not-to-exceed amount of the Contract.
- Sponsors:** Board of Directors - Regular Board Meeting
- Attachments:** [Attachment A - Procurement Summary](#)  
[Attachment B - DEOD Summary](#)

**(CARRIED OVER FROM APRIL'S COMMITTEE CYCLE)**

- 16 APPROVE a phased approach to art asset management in response to October 2015 Board Motion (Attachment A). [2017-0013](#)

**Attachments:** [Attachment A - October 2015 Board Directive](#)  
[Attachment B - Metro Public Art Collection 05.18.17](#)  
[Attachment C - Examples Metro Public Art Collection 05.18.17](#)  
[Attachment D - Art Asset Management Board Report Presentation](#)

- 34 RECEIVE AND FILE this report on Metro's long-term needs at Division 20 in the Downtown Los Angeles Arts District and the accommodations necessary for a potential future Arts District passenger rail station. [2017-0130](#)

**Sponsors:** Planning and Programming Committee

**Attachments:** [Attachment A - January 2017 Board Motion, Item 41](#)  
[Attachment B - Division 20 Current Transportation & Contiguous Projects](#)  
[Attachment C - Current Division 20 Metro Projects](#)  
[Attachment D - Station Development Scenarios](#)  
[Arts District Connectivity](#)

**(CARRIED OVER FROM APRIL'S COMMITTEE CYCLE)**

## Adjournment

Consideration of items not on the posted agenda, including: items to be presented and (if requested) referred to staff; items to be placed on the agenda for action at a future meeting of the Committee or Board; and/or items requiring immediate action because of an emergency situation or where the need to take immediate action came to the attention of the Committee subsequent to the posting of the agenda.



## Board Report

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**File #:** 2017-0278, **File Type:** Informational Report

**Agenda Number:** 17

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### SYSTEM SAFETY, SECURITY AND OPERATIONS COMMITTEE MAY 18, 2017

**SUBJECT: MONTHLY UPDATE ON TRANSIT POLICING PERFORMANCE**

**ACTION: RECEIVE AND FILE**

**RECOMMENDATION**

RECEIVE AND FILE **monthly update on Transit Policing performance.**

**ISSUE**

On October 4, 2014, the board requested that staff provide a monthly update on transit policing performance to Systems Safety and Operations Committee. Specifically, the board requested monthly updates on criminal activity, fare compliance, response time, deployment and perception of safety.

**DISCUSSION**

This report covers the month of March 2017. Staff continues to be proactive in working with Operations, Los Angeles County Sheriff's Department (LASD), and Communications in addressing perception of safety, criminal activity, fare compliance, response time, and deployment.

In the new law enforcement services contract, staff is including key performance indicators as tools to track performance.

Below are the key highlights for March 2017:

**Monthly Update on Transit Policing Performance Report:**

Staff is working on redesigning the Systems Safety and Operations Committee monthly transit policing performance report in order to enhance the current reporting system and to incorporate the recently awarded contract to LAPD and LBPD.

## **Actions to Improve the Ridership Experience:**

Metro is committed to providing a safe and quality ridership experience for all of its customers. To minimize blight and disorder on the Metro system in part caused by homelessness (encampments, loitering without fare, etc.) and illegal vending, Metro has launched The Vendor Pilot Program at Westlake/McArthur Park.

### 1) Westlake/ McArthur Park Vendor Pilot Program

To control the voluminous non-permitted illegal vending at Metro's Red/Purple Line Westlake/McArthur Park station, Metro has partnered with Supervisor Solis and Los Angeles City Council Office, Gil Cedillo to launch a controlled Vendor Pilot Program. The result of this pilot program is to minimize blight and disorder at this station by eliminating unpermitted street vending on Metro Property, ensure safe boarding and alighting of bus patrons and to ultimately transform the station plaza into an inviting environment.

A total of 34 booths and 68 spaces will be made available on a daily basis for local street vendors and one booth will be made available for local nonprofits to conduct outreach and education on a rotating basis. This initiative is part of Metro's efforts to establish innovative "Problem-Oriented Policing" strategies to address long-term concerns about blight and disorder at stations. The strategy aims to reduce crime by involving public and private organizations in the reduction of community problems.

The pilot program was launched on 3/30/17

## **High Visibility**

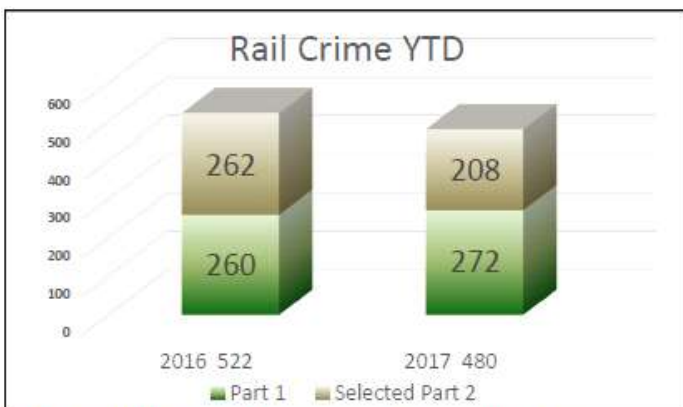
- Transit Security Officers (TSO) and Los Angeles County Sheriffs (LASD) have been engaging and interacting with patrons and operators to increase presence and increase the perception of safety on the Metro system. LASD has a 20 deputy train riding team (10 cover the Red and Gold Lines and 10 cover Blue, Expo and Green Lines. The goal of these operations is to combat quality of life issues on the Metro system. TSO's conduct high visibility both on bus and rail.
- On March 13, 2017, we launched a 5-week operation focused exclusively on improving the Blue Line ridership experience. Metro security & law enforcement personnel will ride trains, interact with passengers, and take action to:
  - Eliminate vending, solicitation, and aggressive panhandling
  - Eliminate offensive, boisterous behavior
  - Eliminate loud music
  - Address seat hogging or taking up excessive space
- TSO High Visibility Activity:



March	Mode	Fare Checks	Boardings/Fixed Post
	Rail	44,331	28 Stations
	Bus	10,990	30 Boardings

**Criminal Activity:**

**MARCH 2017:**



**Rail Part 1 Crime**    **Up**    **4.6%**    **from last year**

**Rail Sel Part 2 Crime**    **Down**    **-20.6%**    **from last year**

**Total Rail Crime**    **Down**    **-8.0%**    **from last year**



**Bus Part 1 Crime**    **Down**    **-16.1%**    **from last year**

**Bus Sel Part 2 Crime**    **Down**    **-23.3%**    **from last year**

**Total Bus Crime**    **Down**    **-20.0%**    **from last year**



U/S Part 1 Crime	Up	66.7%	from last year
U/S Sel Part 2 Crime	Same	0.0%	from last year
Total U/S Crime	Up	47.1%	from last year

### Bus Operator Assaults:

- In March 2017 there were 11 operator assaults. Of the 11 total operator assaults, 31.7% of the total assaults have had a suspect taken into custody. The majority of bus operator assaults are caused by fare related followed by patrons demanding to stop.
- Comparing March 2016 to March 2017, Operator Assaults have increased 21%.
- Of the 11 total operator assaults from March 2017, there were 9 non-aggravated assaults, 2 aggravated assaults. The method of assault was as follows: 7 used hands/feet, 1 threw cold liquid, 1 threw hot liquid, 1 used a weapon, and 1 used pepper spray.
- Attachment B contains the matrix for the suspects who have assaulted Bus Operators that LASD has been tracking.
- In March 2017 there were 35,672,953 bus boardings and 11 total operator assaults, equating to 1 bus operator assault per 3.8 million boardings.

### Operator Safety:

- The ongoing Transit Ambassador Program focuses on classes that address conflict resolution for Operators and Supervisors.
- Metro Operations is continuing to move forward with the installation of barriers and monitors in the remaining serviceable fleet.
- In June 2016 staff started a program to retrofit operator barriers onto buses. This program is

expected to run for approximately 24 months. Staff is also developing a new program to have video monitors retrofit onto the rest of Metro's bus fleet.

- As of March, 2017 the Metro New Flyer Buses that in service are as follows:
  - Number of New Flyer buses in service (LA Metro & Contract Services) = 900 of 900
  - Number of buses "in-service" with protective barriers = 883
  - Number of buses "in-service" with live video monitors = 895
  - All other New Flyer Buses are complete. Buses (15) remaining are Contract Services'.

### Significant Activities

- **3/3/2017-** Unit 600 was flagged down on a couple who he thought was fighting. The female was apparently not breathing as she was choking on a piece of food. Unit 600 immediately began CPR and was successful in his efforts which ultimately saved her life. Paramedics were requested to the scene and she was transported to a local hospital for follow up.
- **3/10/2017-** TPD units responded to the location regarding a female suspect who brandished a box cutter at a contract security officer following an argument with her boyfriend. Contract security officer positively identified a female patron who brandished a box cutter and she was arrested without incident. The victim was not injured.
- **3/17/2017-** Unit # 642f responded to an assault call aboard bus # 6144. They detained a male who was positively identified who forcefully took a patron's phone. The male was arrested for strong-arm robbery.
- **3/31/2017-** Transit policing division pm shift watch commander reports at approximately 1913 hours, transit policing division received a call of two males assaulting each other with knives at the Artesia Bus Center in the city of Compton. Upon their arrival, the deputies detained two males who were armed with knives without incident. Both males suffered facial lacerations which were non-life threatening. Witnesses at the scene indicated both males attacked each other due to possible gang affiliation.

Paramedics from the Compton City Fire department arrived on scene and treated the suspects for their injuries. The suspects were arrested and transported to local hospitals for further medical review. After being released from the hospital, the suspects were transported to a local sheriff's facility for booking. Two knives were recovered from the scene and no MTA bus patrons were injured during the incident.

### Fare compliance:

- In March 2017, law enforcement and Transit Security performed 124,188 fare checks on the rails and Orange Line. Based on the monthly targets, in March 2017 law enforcement had a 1% saturation rate. Although law enforcement ceased their fare compliance operations, they still have the discretion to check fare on a case by case basis.
- Based on the chart, green checks occur when a patron has valid fare and has tapped at a turnstile or stand-alone validator. Yellow checks occur when a patron has valid fare, but failed to TAP at a transfer point. Red checks occur when a patron either has a daily/weekly/monthly pass and has not tapped at all during their trip, has stored value and failed to TAP, or has no stored value.
- The fluctuation of ticket issuance is due to transition of fare compliance from LASD to Metro Transit Security. LASD ceased fare compliance beginning January 2017.
- Metro’s Transit Security department was authorized to hire an additional 77 TSO to help with fare compliance.
  - As of 3/31/17, 41 new TSO have been hired
  - We expect to complete the hiring process by May 2017.
- At the discretion of the fare inspector, patrons are encouraged to make payment at the ticket vending machine or TAP their card on the validator in lieu of receiving a citation.

MARCH	2017								*MONTHLY TARGET
	FARES CHECKED	GREEN CHECKS	YELLOW CHECKS	RED CHECKS	TICKETS	TARGET* ATTAINED	RIDERSHIP	TAP ENTRIES	
Red/Purple	55,809	45,208	5,778	4,823	479	26%	3,943,261	2,993,978	220,000
Blue	47,628	24,280	15,892	7,456	516	23%	1,984,774	1,245,929	212,000
Green	2,399	1,437	662	300	13	2%	868,464	604,502	136,000
Gold	15,769	13,461	740	1,568	52	14%	1,413,585	1,009,847	116,000
Expo	1,416	1,037	98	281	3	2%	1,668,621	732,090	90,000
Orange	758	599	44	115	28	1%	689,793	444,949	92,000
Bus	409	303	84	22	43		-	-	
<b>Total</b>	<b>124,188</b>	<b>86,325</b>	<b>23,298</b>	<b>14,565</b>	<b>1,134</b>		<b>10,568,498</b>	<b>7,031,295</b>	
SATURATION RATE	1%								

**Traffic Enforcement Activity in the Bus Rapid Transit Lanes:**

- Per a board members request, beginning September 2016, we began to track citations issued along Wilshire Blvd.
- In March 2017, there were 102 “Failure to Obey Signs” citations issued on Wilshire Blvd.

**Response Time:**

- In March 2017, the average response time for “Calls for Service” (Emergency, Priority, and Routine) for all rail lines and buses was 13.06 minutes.

- LASD reports emergency call responses averaged 5.6 minutes in March 2017.

**ATTACHMENTS**


Attachment A - Transit Policing Division Report March 2017

Attachment B - Matrix of Bus Operator Assault Suspects

Prepared by: Alex Z Wiggins, Chief, System Security and Law Enforcement, (213) 922-4433

Reviewed by:

Stephanie Wiggins, Deputy Chief Executive Officer, (213) 922-1023



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Phillip A. Washington  
Chief Executive Officer

*LOS ANGELES COUNTY SHERIFF'S DEPARTMENT  
TRANSIT POLICING DIVISION  
RONENE M. THOMAS, CHIEF*



**MTA  
MONTHLY REPORT  
March 2017**

Prepared by the Crime Analysis Unit



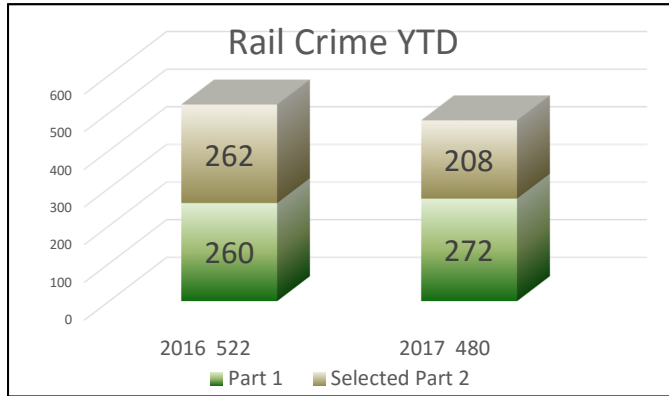
*LOS ANGELES COUNTY SHERIFF'S DEPARTMENT  
TRANSIT POLICING DIVISION  
RONENE M. THOMAS, CHIEF*

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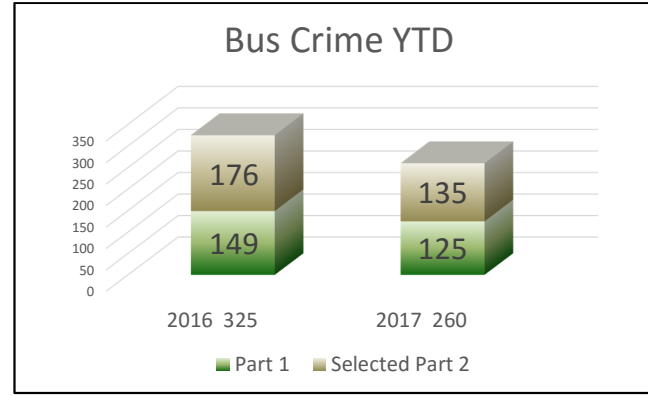
## TRANSIT POLICING DIVISION SUMMARY - 2017



**Rail Part 1 Crime**    **Up**    **4.6%**    **from last year**

**Rail Sel Part 2 Crime**    **Down**    **-20.6%**    **from last year**

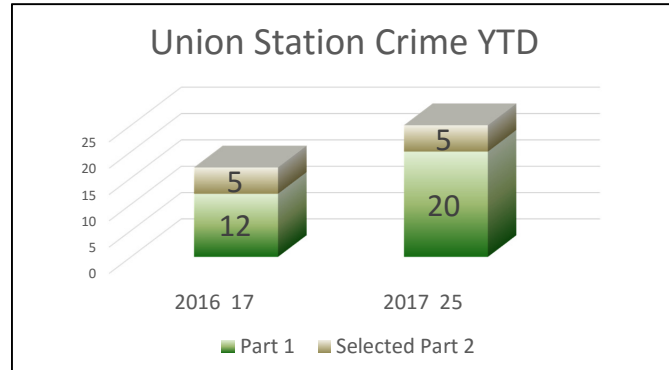
**Total Rail Crime**    **Down**    **-8.0%**    **from last year**



**Bus Part 1 Crime**    **Down**    **-16.1%**    **from last year**

**Bus Sel Part 2 Crime**    **Down**    **-23.3%**    **from last year**

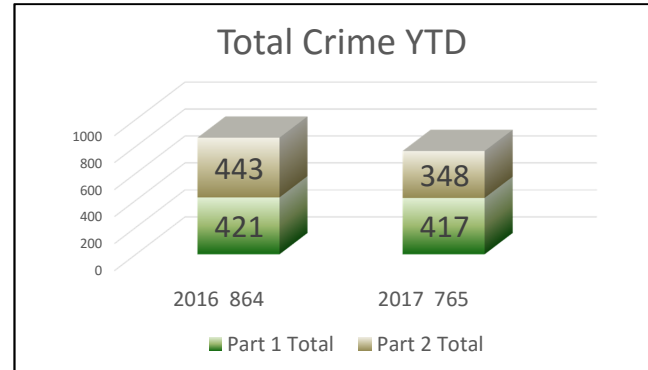
**Total Bus Crime**    **Down**    **-20.0%**    **from last year**



**U/S Part 1 Crime**    **Up**    **66.7%**    **from last year**

**U/S Sel Part 2 Crime**    **Same**    **0.0%**    **from last year**

**Total U/S Crime**    **Up**    **47.1%**    **from last year**



**Total Part 1 Crime**    **Down**    **-1.0%**    **from last year**

**Total Sel Part 2 Crime**    **Down**    **-21.4%**    **from last year**

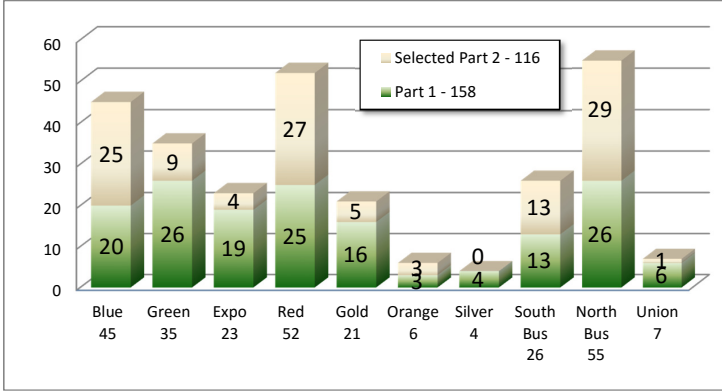
**Total Crime**    **Down**    **-11.5%**    **from last year**

Part 1 Crimes: Homicide, Rape, Robbery, Aggravated Assault, Burglary, Theft, Grand Theft Auto, Arson  
 Selected Part 2 Crimes: Battery, Sex Offenses, Weapons, Narcotics, Trespassing, Vandalism

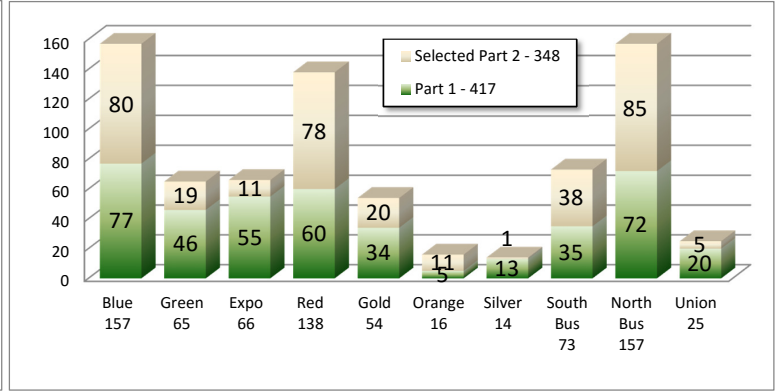


# TRANSIT POLICING DIVISION SUMMARY - 2017

Mar Crimes - 274



YTD Crimes - 765

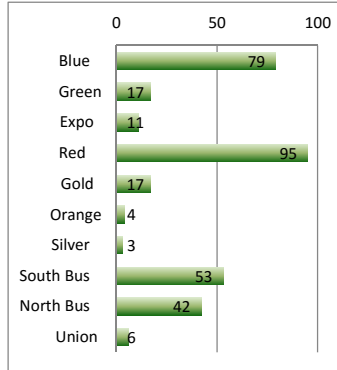


Part 1 Crimes per 1,000,000 Riders

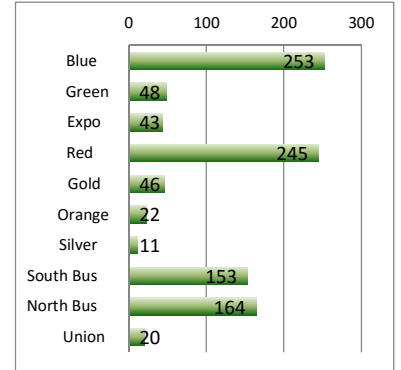
	2017 Jan - Mar	2016 Jan - Mar	2015 Jan - Mar	2014 Jan - Mar
Blue	13.3 ↓	14.1	14.8	13.0
Green	18.5 ↓	25.4	20.3	22.6
Expo	12.0 ↑	10.6	15.3	11.9
Red	5.3 ↑	4.5	4.5	4.3
Gold	8.3 ↑	6.4	11.2	4.5
Orange	2.7 ↓	4.0	6.9	5.4
Silver	12.4 ↑	3.4	0.0	1.0
Bus	1.6 ↓	1.8	1.7	1.4

Arrow indicates an increase or decrease from last year.

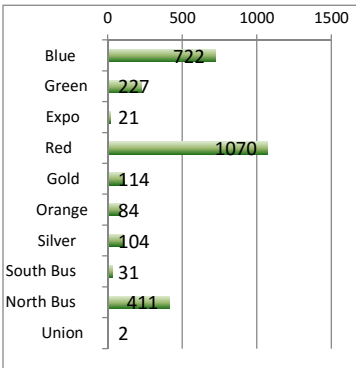
Mar Arrests - 327



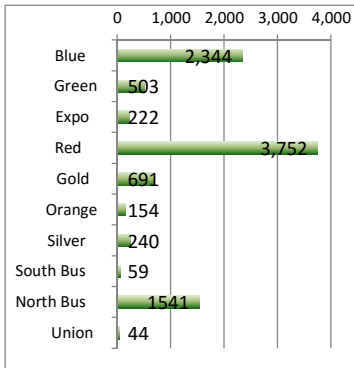
YTD Arrests - 1005



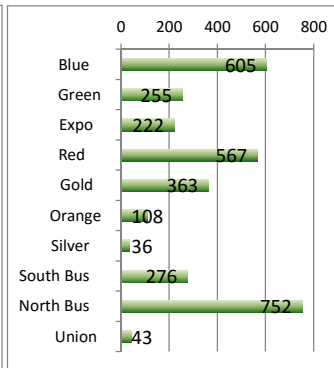
Mar Citations - 2786



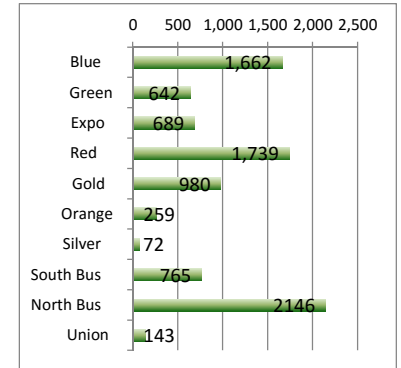
YTD Citations - 9550



Mar Calls For Service - 3227



YTD Calls For Service - 9097



## SATURATION RATE

March	BLUE	GREEN	EXPO	RED	GOLD	ORG	TOTAL
Ridership	1,984,774	868,464	1,668,621	3,943,261	1,413,585	689,793	10,568,498
Contacts	48,255	2,425	1,436	56,531	15,853	790	125,290
%Passengers Inspected	2.43%	0.28%	0.09%	1.43%	1.12%	0.11%	1.19%

YTD	BLUE	GREEN	EXPO	RED	GOLD	ORG	TOTAL
YTD Ridership	5,796,492	2,489,149	4,572,106	11,383,027	4,080,087	1,846,310	30,167,171
YTD Contacts*	144,718	17,481	10,943	326,529	118,457	5,134	623,262
%Passengers Inspected	2.50%	0.70%	0.24%	2.87%	2.90%	0.28%	2.07%

\* Contacts are calculated by adding MPV checks and citations.

### System-Wide Highlights

Part 1 Crimes have decreased by 1% from Jan-Mar 2017 compared to Jan-Mar 2016.

The Blue and Green lines had a decrease in part 1 crimes per 1,000,000 riders, while the Expo, Red, and Gold lines had an increase.

Overall, buses had a decrease in part 1 crimes per 1,000,000 riders from the same period last year.

## \*Part 1 Crimes by Month - Rail

Blue Line	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Homicide	0	0	0	0	0	0	0	0	0	0	0	0	0
Rape	0	0	0	0	0	0	0	0	0	0	0	0	0
Robbery	11	10	4	0	0	0	0	0	0	0	0	0	25
Agg Assault	8	5	0	0	0	0	0	0	0	0	0	0	13
Agg Assault on Op	0	0	0	0	0	0	0	0	0	0	0	0	0
Burglary	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Theft	3	5	4	0	0	0	0	0	0	0	0	0	12
Petty Theft	1	7	9	0	0	0	0	0	0	0	0	0	17
GTA	3	2	0	0	0	0	0	0	0	0	0	0	5
BTFV	1	1	3	0	0	0	0	0	0	0	0	0	5
Arson	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	27	30	20	0	0	0	0	0	0	0	0	0	77

Green Line	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Homicide	0	0	0	0	0	0	0	0	0	0	0	0	0
Rape	0	0	0	0	0	0	0	0	0	0	0	0	0
Robbery	1	7	7	0	0	0	0	0	0	0	0	0	15
Agg Assault	1	2	5	0	0	0	0	0	0	0	0	0	8
Agg Assault on Op	0	0	0	0	0	0	0	0	0	0	0	0	0
Burglary	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Theft	0	1	2	0	0	0	0	0	0	0	0	0	3
Petty Theft	1	0	5	0	0	0	0	0	0	0	0	0	6
GTA	3	1	2	0	0	0	0	0	0	0	0	0	6
BTFV	1	2	5	0	0	0	0	0	0	0	0	0	8
Arson	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	7	13	26	0	0	0	0	0	0	0	0	0	46

Expo Line	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Homicide	0	0	0	0	0	0	0	0	0	0	0	0	0
Rape	0	0	0	0	0	0	0	0	0	0	0	0	0
Robbery	5	4	7	0	0	0	0	0	0	0	0	0	16
Agg Assault	0	0	0	0	0	0	0	0	0	0	0	0	0
Agg Assault on Op	0	0	0	0	0	0	0	0	0	0	0	0	0
Burglary	1	0	0	0	0	0	0	0	0	0	0	0	1
Grand Theft	8	5	5	0	0	0	0	0	0	0	0	0	18
Petty Theft	8	1	7	0	0	0	0	0	0	0	0	0	16
GTA	0	0	0	0	0	0	0	0	0	0	0	0	0
BTFV	2	2	0	0	0	0	0	0	0	0	0	0	4
Arson	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	24	12	19	0	0	0	0	0	0	0	0	0	55

Red Line	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Homicide	0	0	1	0	0	0	0	0	0	0	0	0	1
Rape	0	0	2	0	0	0	0	0	0	0	0	0	2
Robbery	3	2	2	0	0	0	0	0	0	0	0	0	7
Agg Assault	4	4	8	0	0	0	0	0	0	0	0	0	16
Agg Assault on Op	0	0	0	0	0	0	0	0	0	0	0	0	0
Burglary	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Theft	4	4	2	0	0	0	0	0	0	0	0	0	10
Petty Theft	7	5	9	0	0	0	0	0	0	0	0	0	21
GTA	0	1	1	0	0	0	0	0	0	0	0	0	2
BTFV	0	1	0	0	0	0	0	0	0	0	0	0	1
Arson	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	18	17	25	0	0	0	0	0	0	0	0	0	60

Gold Line	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Homicide	0	0	0	0	0	0	0	0	0	0	0	0	0
Rape	0	0	0	0	0	0	0	0	0	0	0	0	0
Robbery	4	2	2	0	0	0	0	0	0	0	0	0	8
Agg Assault	3	0	3	0	0	0	0	0	0	0	0	0	6
Agg Assault on Op	0	0	0	0	0	0	0	0	0	0	0	0	0
Burglary	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Theft	0	3	2	0	0	0	0	0	0	0	0	0	5
Petty Theft	2	2	7	0	0	0	0	0	0	0	0	0	11
GTA	2	0	2	0	0	0	0	0	0	0	0	0	4
BTFV	0	0	0	0	0	0	0	0	0	0	0	0	0
Arson	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	11	7	16	0	0	0	0	0	0	0	0	0	34

\* Part 1 Crimes are calculated in accordance with the FBI Uniform Crime Report standards. Homicides, Rapes, and Aggravated Assaults are counted by the number of victims.

## Part 1 Crimes by Month - Bus

Orange Line	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Homicide	0	0	0	0	0	0	0	0	0	0	0	0	0
Rape	0	0	0	0	0	0	0	0	0	0	0	0	0
Robbery	0	0	0	0	0	0	0	0	0	0	0	0	0
Agg Assault	0	0	1	0	0	0	0	0	0	0	0	0	1
Agg Assault on Op	0	0	0	0	0	0	0	0	0	0	0	0	0
Burglary	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Theft	0	0	0	0	0	0	0	0	0	0	0	0	0
Petty Theft	1	0	1	0	0	0	0	0	0	0	0	0	2
GTA	0	0	1	0	0	0	0	0	0	0	0	0	1
BTFV	0	1	0	0	0	0	0	0	0	0	0	0	1
Arson	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	1	3	0	0	0	0	0	0	0	0	0	5

Silver Line	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Homicide	0	0	0	0	0	0	0	0	0	0	0	0	0
Rape	0	0	0	0	0	0	0	0	0	0	0	0	0
Robbery	1	2	1	0	0	0	0	0	0	0	0	0	4
Agg Assault	0	4	1	0	0	0	0	0	0	0	0	0	5
Agg Assault on Op	0	0	0	0	0	0	0	0	0	0	0	0	0
Burglary	0	1	0	0	0	0	0	0	0	0	0	0	1
Grand Theft	0	0	0	0	0	0	0	0	0	0	0	0	0
Petty Theft	0	0	1	0	0	0	0	0	0	0	0	0	1
GTA	0	0	0	0	0	0	0	0	0	0	0	0	0
BTFV	0	1	1	0	0	0	0	0	0	0	0	0	2
Arson	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	8	4	0	0	0	0	0	0	0	0	0	13

South Bus	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Homicide	0	0	0	0	0	0	0	0	0	0	0	0	0
Rape	0	0	0	0	0	0	0	0	0	0	0	0	0
Robbery	2	3	3	0	0	0	0	0	0	0	0	0	8
Agg Assault	3	3	2	0	0	0	0	0	0	0	0	0	8
Agg Assault on Op	3	0	2	0	0	0	0	0	0	0	0	0	5
Burglary	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Theft	1	2	4	0	0	0	0	0	0	0	0	0	7
Petty Theft	2	1	2	0	0	0	0	0	0	0	0	0	5
GTA	1	0	0	0	0	0	0	0	0	0	0	0	1
BTFV	0	1	0	0	0	0	0	0	0	0	0	0	1
Arson	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	12	10	13	0	0	0	0	0	0	0	0	0	35

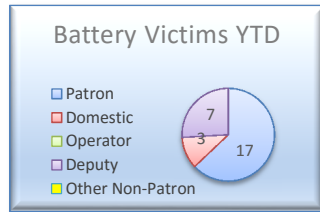
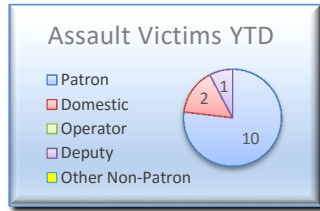
North Bus	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Homicide	0	0	0	0	0	0	0	0	0	0	0	0	0
Rape	0	0	0	0	0	0	0	0	0	0	0	0	0
Robbery	9	2	4	0	0	0	0	0	0	0	0	0	15
Agg Assault	10	5	4	0	0	0	0	0	0	0	0	0	19
Agg Assault on Op	1	2	1	0	0	0	0	0	0	0	0	0	4
Burglary	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Theft	5	4	7	0	0	0	0	0	0	0	0	0	16
Petty Theft	6	2	10	0	0	0	0	0	0	0	0	0	18
GTA	0	0	0	0	0	0	0	0	0	0	0	0	0
BTFV	0	0	0	0	0	0	0	0	0	0	0	0	0
Arson	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	31	15	26	0	0	0	0	0	0	0	0	0	72

Union Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Homicide	0	0	0	0	0	0	0	0	0	0	0	0	0
Rape	0	0	0	0	0	0	0	0	0	0	0	0	0
Robbery	0	1	0	0	0	0	0	0	0	0	0	0	1
Agg Assault	1	0	2	0	0	0	0	0	0	0	0	0	3
Agg Assault on Op	0	0	0	0	0	0	0	0	0	0	0	0	0
Burglary	0	0	1	0	0	0	0	0	0	0	0	0	1
Grand Theft	1	0	1	0	0	0	0	0	0	0	0	0	2
Petty Theft	3	5	2	0	0	0	0	0	0	0	0	0	10
GTA	0	0	0	0	0	0	0	0	0	0	0	0	0
BTFV	1	2	0	0	0	0	0	0	0	0	0	0	3
Arson	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	6	8	6	0	0	0	0	0	0	0	0	0	20

Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Homicide	0	0	1	0	0	0	0	0	0	0	0	0	1
Rape	0	0	2	0	0	0	0	0	0	0	0	0	2
Robbery	36	33	30	0	0	0	0	0	0	0	0	0	99
Agg Assault	30	23	26	0	0	0	0	0	0	0	0	0	79
Agg Assault on Op	4	2	3	0	0	0	0	0	0	0	0	0	9
Burglary	1	1	1	0	0	0	0	0	0	0	0	0	3
Grand Theft	22	24	27	0	0	0	0	0	0	0	0	0	73
Petty Theft	31	23	53	0	0	0	0	0	0	0	0	0	107
GTA	9	4	6	0	0	0	0	0	0	0	0	0	19
BTFV	5	11	9	0	0	0	0	0	0	0	0	0	25
Arson	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	138	121	158	0	0	0	0	0	0	0	0	0	417

# BLUE LINE

REPORTED CRIME		
PART 1 CRIMES	Mar	YTD
Homicide	0	0
Rape	0	0
Robbery	4	25
Agg Assault	0	13
Agg Assault on Op	0	0
Burglary	0	0
Grand Theft	4	12
Petty Theft	9	17
Motor Vehicle Theft	0	5
Burg/Theft From Vehicle	3	5
Arson	0	0
<b>SUB-TOTAL</b>	<b>20</b>	<b>77</b>
Selected Part 2 Crimes		
Battery	9	27
Battery Rail Operator	0	0
Sex Offenses	1	4
Weapons	1	11
Narcotics	9	28
Trespassing	2	4
Vandalism	3	6
<b>SUB-TOTAL</b>	<b>25</b>	<b>80</b>
<b>TOTAL</b>	<b>45</b>	<b>157</b>



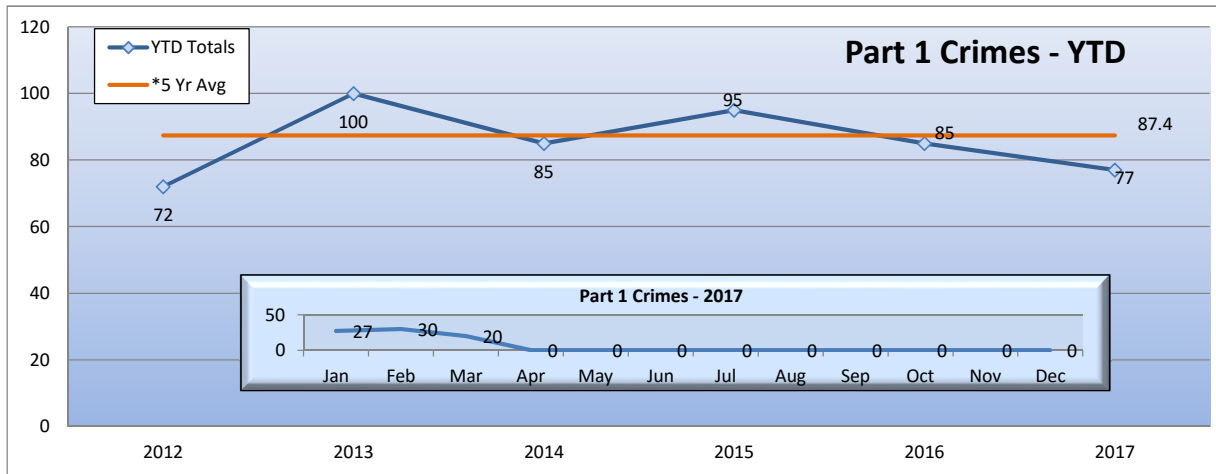
Part 1 Crimes per Station		
Station	Mar	YTD
7th/Metro	3	9
Pico	0	2
Grand	1	3
San Pedro	0	0
Washington	0	1
Vernon	1	2
Slauson	0	5
Florence	0	2
Firestone	1	3
103rd St	0	4
Willowbrook	3	17
Compton	1	4
Artesia	2	2
Del Amo	2	10
Wardlow	0	3
Willow	2	4
PCH	0	1
Anaheim	0	0
5th St	2	2
1st St	0	0
Transit Mall	0	0
Pacific	1	2
Rail Yard	1	1
<b>Total</b>	<b>20</b>	<b>77</b>

ARRESTS		
Type	Mar	YTD
Felony	13	58
Misdemeanor	66	195
<b>TOTAL</b>	<b>79</b>	<b>253</b>

CITATIONS		
Type	Mar	YTD
Fare Evasion Citations	375	1,466
Other Citations	109	186
Vehicle Code Citations	238	692
<b>TOTAL</b>	<b>722</b>	<b>2,344</b>

CALLS FOR SERVICE				
TYPE	Mar		YTD	
	Total	Avg	Total	Avg
Emergency	47	4.9	135	5.4
Priority	254	12.7	719	11.2
Routine	304	17.6	808	19.9
<b>Total</b>	<b>605</b>	<b>14.6</b>	<b>1,662</b>	<b>15.0</b>

FARE ENFORCEMENT		
	Mar	YTD
Ridership	1,984,774	5,796,492
Contacts	48,255	144,718
% of Patrons Inspected	2.43	2.50
Boardings	0	0
Ride	0	0
Fare Warning	0	0



**Blue Line Highlights**

The Blue Line had 8 less part 1 crimes, which is a 9% decrease from the same period last year.

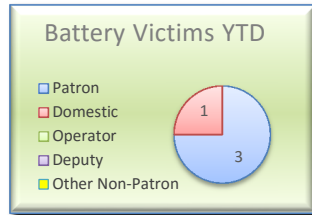
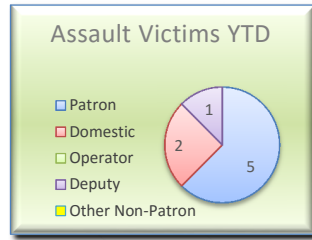
Part 1 crimes per 1,000,000 riders were up from the same period last year.

\*5 yr average is based on the average of part 1 crimes from 2012 - 2016.

# GREEN LINE

## REPORTED CRIME

PART 1 CRIMES	Mar	YTD
Homicide	0	0
Rape	0	0
Robbery	7	15
Agg Assault	5	8
Agg Assault on Op	0	0
Burglary	0	0
Grand Theft	2	3
Petty Theft	5	6
Motor Vehicle Theft	2	6
Burg/Theft From Vehicle	5	8
Arson	0	0
<b>SUB-TOTAL</b>	<b>26</b>	<b>46</b>
<b>Selected Part 2 Crimes</b>		
Battery	4	4
Battery Rail Operator	0	0
Sex Offenses	0	1
Weapons	1	1
Narcotics	1	3
Trespassing	0	0
Vandalism	3	10
<b>SUB-TOTAL</b>	<b>9</b>	<b>19</b>
<b>TOTAL</b>	<b>35</b>	<b>65</b>



## Part 1 Crimes per Station

Station	Mar	YTD
Redondo Beach	2	2
Douglas	0	1
El Segundo	0	0
Mariposa	0	0
Aviation	1	2
Hawthorne	3	4
Crenshaw	1	2
Vermont	0	1
Harbor	2	2
Avalon	1	3
Willowbrook	3	5
Long Beach	5	9
Lakewood	5	8
Norwalk	3	7
<b>Total</b>	<b>26</b>	<b>46</b>

## ARRESTS

Type	Mar	YTD
Felony	5	14
Misdemeanor	12	34
<b>TOTAL</b>	<b>17</b>	<b>48</b>

## CITATIONS

Type	Mar	YTD
Fare Evasion Citations	10	64
Other Citations	3	15
Vehicle Code Citations	214	424
<b>TOTAL</b>	<b>227</b>	<b>503</b>

## CALLS FOR SERVICE

TYPE	Mar		YTD	
	Total	Avg	Total	Avg
Emergency	17	5.9	45	5.2
Priority	85	12.4	213	11.4
Routine	153	17.6	384	19.6
<b>Total</b>	<b>255</b>	<b>15.1</b>	<b>642</b>	<b>15.9</b>

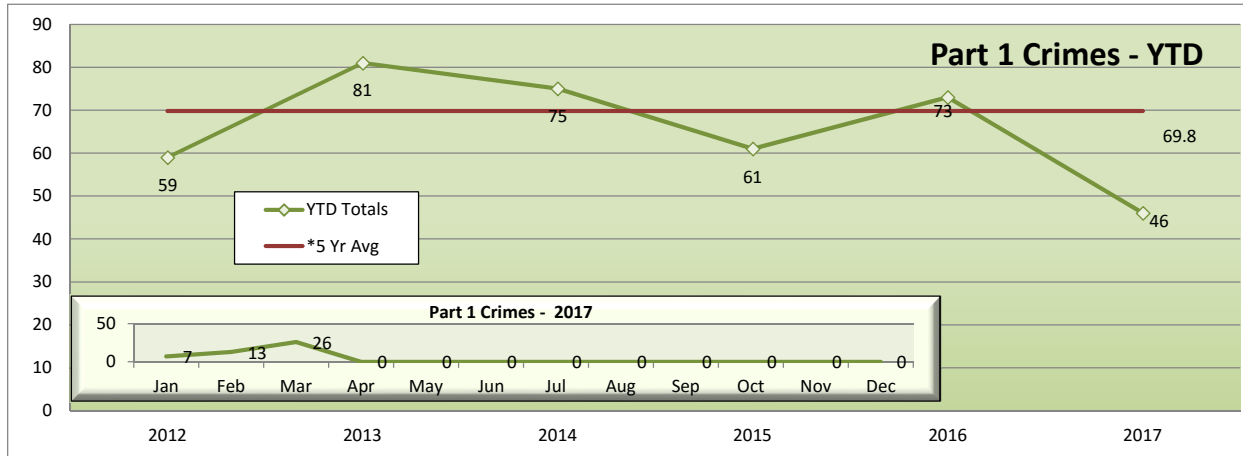
## FARE ENFORCEMENT

	Mar	YTD
Ridership	868,464	2,489,149
Contacts	2,425	17,481
% of Patrons Inspected	0.28	0.70
Boardings	0	0
Ride	0	0
Fare Warning	0	0

**Green Line Highlights**

The Green Line had 27 less part 1 crimes, which is a 37% decrease from the same period last year.

Part 1 crimes per 1,000,000 riders were down from the same period last year.

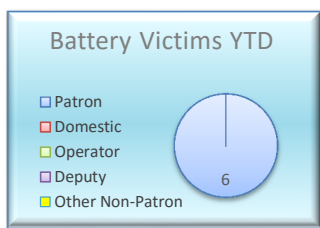
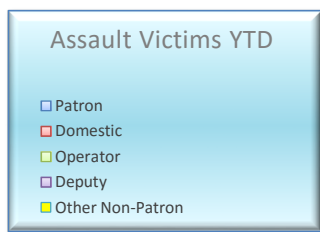


\*5 yr average is based on the average of part 1 crimes from 2012 - 2016.

# EXPO LINE

## REPORTED CRIME

PART 1 CRIMES	Mar	YTD
Homicide	0	0
Rape	0	0
Robbery	7	16
Agg Assault	0	0
Agg Assault on Op	0	0
Burglary	0	1
Grand Theft	5	18
Petty Theft	7	16
Motor Vehicle Theft	0	0
Burg/Theft From Vehicle	0	4
Arson	0	0
<b>SUB-TOTAL</b>	<b>19</b>	<b>55</b>
Selected Part 2 Crimes		
Battery	3	6
Battery Rail Operator	0	0
Sex Offenses	0	2
Weapons	0	0
Narcotics	0	1
Trespassing	0	0
Vandalism	1	2
<b>SUB-TOTAL</b>	<b>4</b>	<b>11</b>
<b>TOTAL</b>	<b>23</b>	<b>66</b>



## Part 1 Crimes per Station

Station	Mar	YTD
7th/Metro	1	3
Pico	0	2
23rd St	1	1
Jefferson/USC	0	2
Expo/USC	0	2
Expo/Vermont	1	2
Expo/Western	1	8
Expo/Crenshaw	1	3
Farmdale	1	3
La Brea	0	0
La Cienega	3	8
Culver City	1	5
Palms	1	4
Expo/Westwood	1	1
Expo/Sepulveda	2	3
Expo/Bundy	1	3
26th St/Bergamot	3	3
17th St/SMC	1	1
D/T Santa Monica	0	1
Expo Rail Yard	0	0
<b>Total</b>	<b>19</b>	<b>55</b>

## ARRESTS

Type	Mar	YTD
Felony	3	18
Misdemeanor	8	25
<b>TOTAL</b>	<b>11</b>	<b>43</b>

## CITATIONS

Type	Mar	YTD
Fare Evasion Citations	3	47
Other Citations	1	4
Vehicle Code Citations	17	171
<b>TOTAL</b>	<b>21</b>	<b>222</b>

## CALLS FOR SERVICE

TYPE	Mar		YTD	
	Total	Avg	Total	Avg
Emergency	16	5.9	44	4.3
Priority	87	12.7	283	12.1
Routine	119	17.1	362	26.4
<b>Total</b>	<b>222</b>	<b>14.6</b>	<b>689</b>	<b>19.1</b>

## FARE ENFORCEMENT

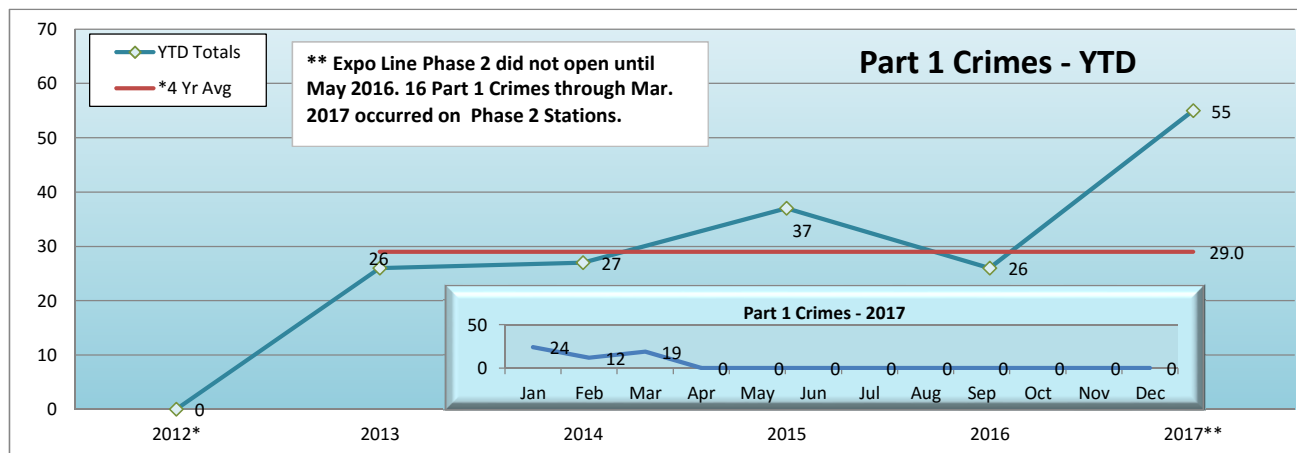
	Mar	YTD
Ridership	1,668,621	4,572,106
Contacts	1,436	10,943
% of Patrons Inspected	0.09	0.24
Boardings	0	0
Ride	0	0
Fare Warning	0	0

### Expo Line Highlights

The Expo Line had 29 more part 1 crime, which is a 112% increase from the same period last year.

Part 1 crimes per 1,000,000 riders were down from the same period last year.

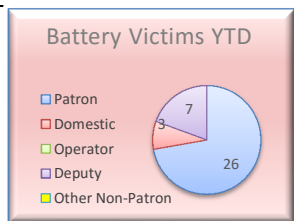
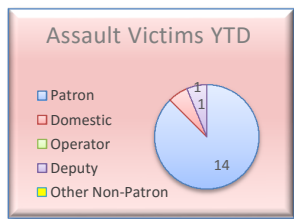
## Part 1 Crimes - YTD



\*Expo line opened in April 2012, so a 4 yr average from 2013 - 2016 is calculated.

# RED LINE

REPORTED CRIME		
PART 1 CRIMES	Mar	YTD
Homicide	1	1
Rape	2	2
Robbery	2	7
Agg Assault	8	16
Agg Assault on Op	0	0
Burglary	0	0
Grand Theft	2	10
Petty Theft	9	21
Motor Vehicle Theft	1	2
Burg/Theft From Vehicle	0	1
Arson	0	0
<b>SUB-TOTAL</b>	<b>25</b>	<b>60</b>
Selected Part 2 Crimes		
Battery	12	36
Battery Rail Operator	0	0
Sex Offenses	2	4
Weapons	1	1
Narcotics	8	28
Trespassing	2	6
Vandalism	2	3
<b>SUB-TOTAL</b>	<b>27</b>	<b>78</b>
<b>TOTAL</b>	<b>52</b>	<b>138</b>



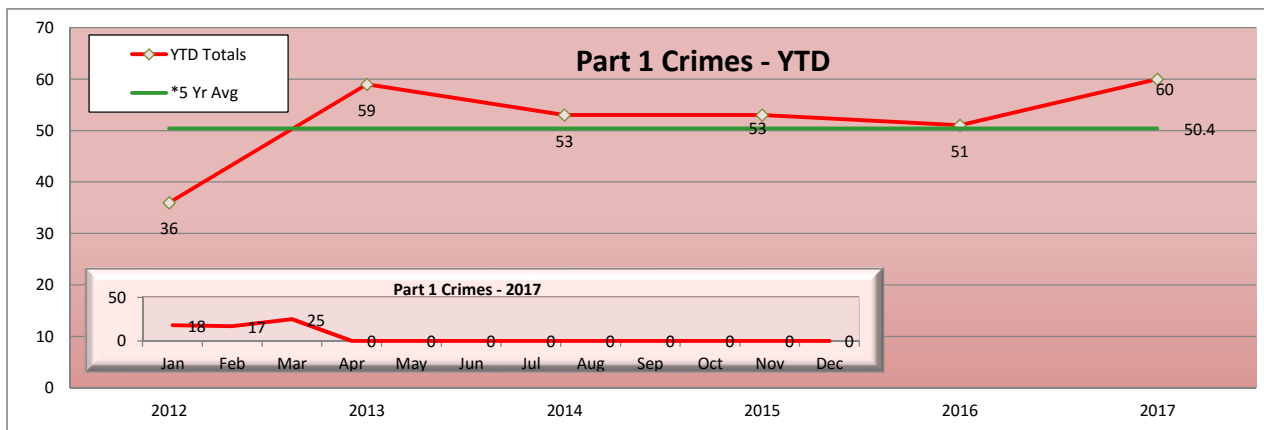
Part 1 Crimes per Station		
Station	Mar	YTD
Union Station	3	5
Civic Center	1	2
Pershing Square	0	1
7th/Metro	2	6
Westlake	4	5
Wilshire/Vermont	1	3
Wilshire/Normandie	1	2
Vermont/Beverly	0	2
Wilshire/Western	1	2
Vermont/Santa Monica	1	2
Vermont/Sunset	0	1
Hollywood/Western	3	4
Hollywood/Vine	4	9
Hollywood/Highland	0	2
Universal	3	6
North Hollywood	1	8
Red Line Rail Yard	0	0
<b>Total</b>	<b>25</b>	<b>60</b>

ARRESTS		
Type	Mar	YTD
Felony	16	51
Misdemeanor	79	194
<b>TOTAL</b>	<b>95</b>	<b>245</b>

CITATIONS		
Type	Mar	YTD
Fare Evasion Citations	502	2,149
Other Citations	72	200
Vehicle Code Citations	496	1,403
<b>TOTAL</b>	<b>1,070</b>	<b>3,752</b>

CALLS FOR SERVICE				
TYPE	Mar		YTD	
	Total	Avg	Total	Avg
Emergency	28	5.0	93	5.0
Priority	226	14.1	779	15.0
Routine	313	21.0	867	21.5
<b>Total</b>	<b>567</b>	<b>17.4</b>	<b>1739</b>	<b>17.7</b>

FARE ENFORCEMENT		
	Mar	YTD
Ridership	3,943,261	11,383,027
Contacts	56,531	326,529
% of Patrons Inspected	1.43	2.87
Boardings	0	0
Ride	0	0
Fare Warning	0	0



**RED Line Highlights**

The Red Line had 9 more part 1 crimes which is a 18% increase from the same period last year.

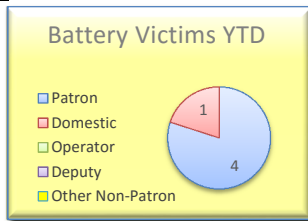
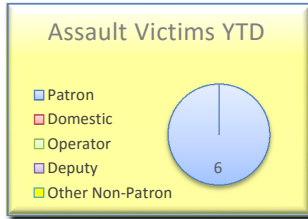
Part 1 crimes per 1,000,000 riders were down from the same period last year.

\*5 yr average is based on the average of part 1 crimes from 2012 - 2016.

# GOLD LINE

## REPORTED CRIME

PART 1 CRIMES	Mar	YTD
Homicide	0	0
Rape	0	0
Robbery	2	8
Agg Assault	3	6
Agg Assault on Op	0	0
Burglary	0	0
Grand Theft	2	5
Petty Theft	7	11
Motor Vehicle Theft	2	4
Burg/Theft From Vehicle	0	0
Arson	0	0
<b>SUB-TOTAL</b>	<b>16</b>	<b>34</b>
<b>Selected Part 2 Crimes</b>		
Battery	1	5
Battery Rail Operator	0	0
Sex Offenses	1	2
Weapons	0	0
Narcotics	2	5
Trespassing	1	2
Vandalism	0	6
<b>SUB-TOTAL</b>	<b>5</b>	<b>20</b>
<b>TOTAL</b>	<b>21</b>	<b>54</b>



## Part 1 Crimes per Station

Station	Mar	YTD
APU/Citrus College	3	4
Azusa Downtown	0	0
Irwindale	0	0
Duarte	0	1
Monrovia	0	0
Arcadia	1	1
Sierra Madre	0	0
Allen	1	2
Lake	0	1
Memorial Park	0	1
Del Mar	0	2
Fillmore	0	1
South Pasadena	0	0
Highland Park	1	2
SW Museum	0	0
Heritage Square	0	2
Lincoln Heights	0	1
Chinatown	0	1
Union Station	2	2
Little Tokyo	3	3
Pico/Aliso	1	2
Mariachi	1	1
Soto	1	1
Indiana	1	4
Maravilla	0	0
East La	0	0
Atlantic	1	2
<b>Total</b>	<b>16</b>	<b>34</b>

## ARRESTS

Type	Mar	YTD
Felony	5	11
Misdemeanor	12	35
<b>TOTAL</b>	<b>17</b>	<b>46</b>

## CITATIONS

Type	Mar	YTD
Fare Evasion Citations	55	381
Other Citations	10	47
Vehicle Code Citations	49	263
<b>TOTAL</b>	<b>114</b>	<b>691</b>

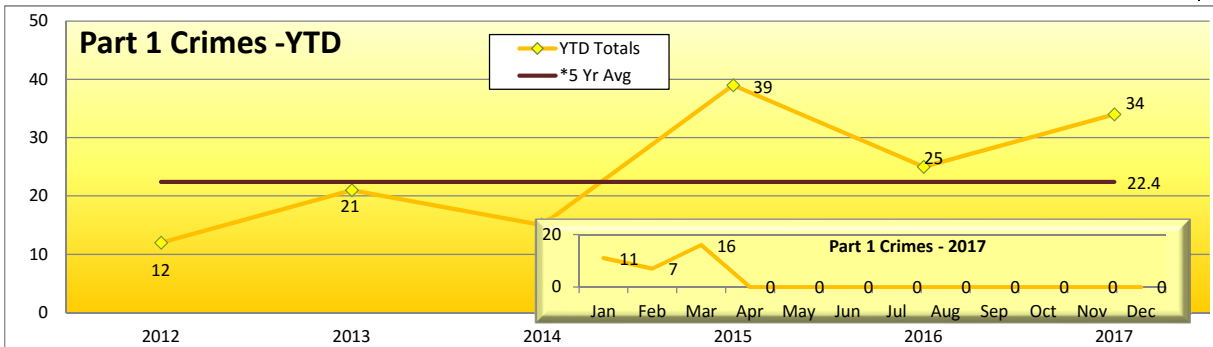
## CALLS FOR SERVICE

TYPE	Mar		YTD	
	Total	Avg	Total	Avg
Emergency	16	6.0	58	6.2
Priority	140	16.6	407	14.1
Routine	207	22.3	515	20.6
<b>Total</b>	<b>363</b>	<b>19.4</b>	<b>980</b>	<b>17.0</b>

## FARE ENFORCEMENT

	Mar	YTD
Ridership	1,413,585	4,080,087
Contacts	15,853	118,457
% of Patrons Inspected	1.12	2.90
Boardings	0	0
Ride	0	0
Fare Warning	0	0

## Part 1 Crimes -YTD



\*5 yr average is based on the average of part 1 crimes from 2012 - 2016.

## Gold Line Highlights

The Gold Line had 9 more part 1 crime, which is a 36% increase from the same period last year.

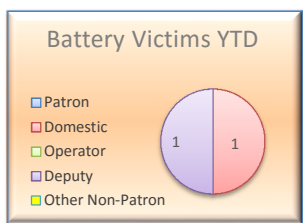
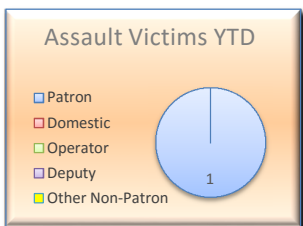
Part 1 crimes per 1,000,000 riders were up from the same period last year.



# ORANGE LINE

## REPORTED CRIME

PART 1 CRIMES	Mar	YTD
Homicide	0	0
Rape	0	0
Robbery	0	0
Agg Assault	1	1
Agg Assault on Op	0	0
Burglary	0	0
Grand Theft	0	0
Petty Theft	1	2
Motor Vehicle Theft	1	1
Burg/Theft From Vehicle	0	1
Arson	0	0
<b>SUB-TOTAL</b>	<b>3</b>	<b>5</b>
Selected Part 2 Crimes		
Battery	0	2
Battery Bus Operator	0	0
Sex Offenses	0	0
Weapons	0	0
Narcotics	0	3
Trespassing	0	1
Vandalism	3	5
<b>SUB-TOTAL</b>	<b>3</b>	<b>11</b>
<b>TOTAL</b>	<b>6</b>	<b>16</b>



## Part 1 Crimes per Station

Station	Mar	YTD
North Hollywood	0	0
Laurel Canyon	0	0
Valley College	0	0
Woodman	0	0
Van Nuys	0	0
Sepulveda	1	1
Woodley	0	0
Balboa	0	0
Reseda	0	0
Tampa	0	0
Pierce College	0	1
De Soto	1	1
Canoga	1	2
Warner Center	0	0
Sherman Way	0	0
Roscoe	0	0
Nordhoff	0	0
Chatsworth	0	0
<b>Total</b>	<b>3</b>	<b>5</b>

## ARRESTS

Type	Mar	YTD
Felony	3	5
Misdemeanor	1	17
<b>TOTAL</b>	<b>4</b>	<b>22</b>

## CITATIONS

Type	Mar	YTD
Fare Evasion Citations	26	31
Other Citations	1	2
Vehicle Code Citations	57	121
<b>TOTAL</b>	<b>84</b>	<b>154</b>

## CALLS FOR SERVICE

TYPE	Mar		YTD	
	Total	Avg	Total	Avg
Emergency	2	7.0	10	7.3
Priority	57	16.1	139	14.7
Routine	49	22.6	110	21.9
<b>Total</b>	<b>108</b>	<b>18.9</b>	<b>259</b>	<b>17.5</b>

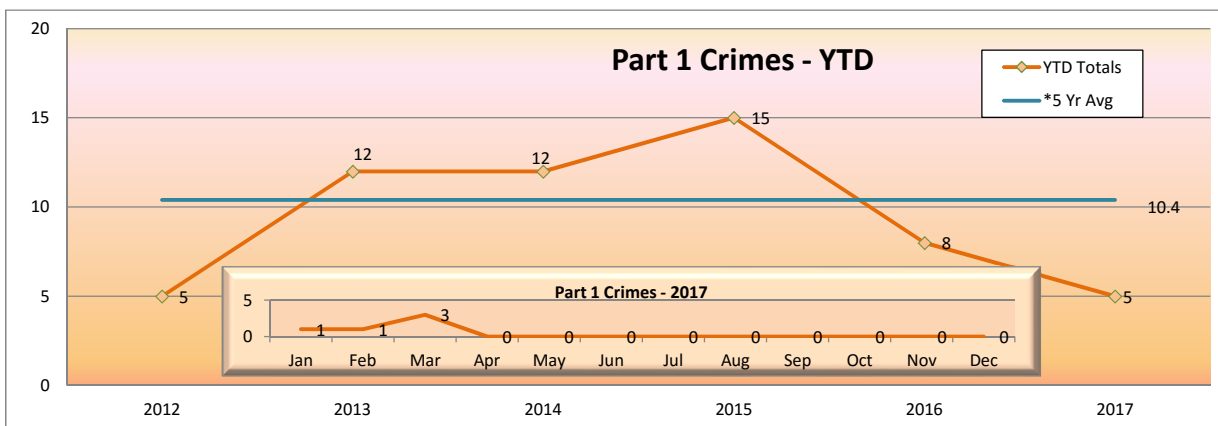
## FARE ENFORCEMENT

	Mar	YTD
Ridership	689,793	1,846,310
Contacts	790	5,134
% of Patrons Inspected	0.11	0.28
Boardings	0	0
Ride	0	0
Fare Warning	0	0

## Orange Line Highlights

The Orange Line had 3 less part 1 crimes, which is a 38% decrease from the same period last year.

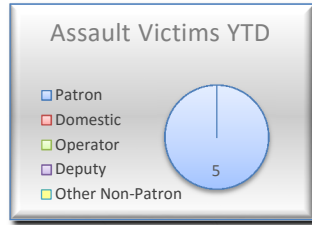
Part 1 crimes per 1,000,000 riders were down from the same period last year.



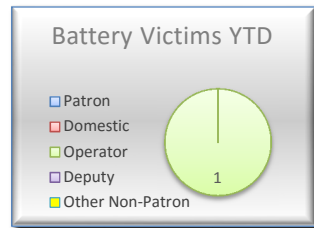
# SILVER LINE

## REPORTED CRIME

PART 1 CRIMES	Mar	YTD
Homicide	0	0
Rape	0	0
Robbery	1	4
Agg Assault	1	5
Agg Assault on Op	0	0
Burglary	0	1
Grand Theft	0	0
Petty Theft	1	1
Motor Vehicle Theft	0	0
Burg/Theft From Vehicle	1	2
Arson	0	0
<b>SUB-TOTAL</b>	<b>4</b>	<b>13</b>



Selected Part 2 Crimes	Mar	YTD
Battery	0	1
Battery Bus Operator	0	0
Sex Offenses	0	0
Weapons	0	0
Narcotics	0	0
Trespassing	0	0
Vandalism	0	0
<b>SUB-TOTAL</b>	<b>0</b>	<b>1</b>
<b>TOTAL</b>	<b>4</b>	<b>14</b>



## Part 1 Crimes per Station

Station	Mar	YTD
El Monte	0	0
Cal State LA	0	1
LAC/USC	0	0
Alameda	0	4
Downtown	0	0
37th St/USC	0	0
Slauson	0	0
Manchester	2	4
Harbor Fwy	1	3
Rosecrans	1	1
Harbor/Gateway	0	0
Carson	0	0
PCH	0	0
San Pedro	0	0
<b>Total</b>	<b>4</b>	<b>13</b>

## ARRESTS

Type	Mar	YTD
Felony	1	2
Misdemeanor	2	9
<b>TOTAL</b>	<b>3</b>	<b>11</b>

## CITATIONS

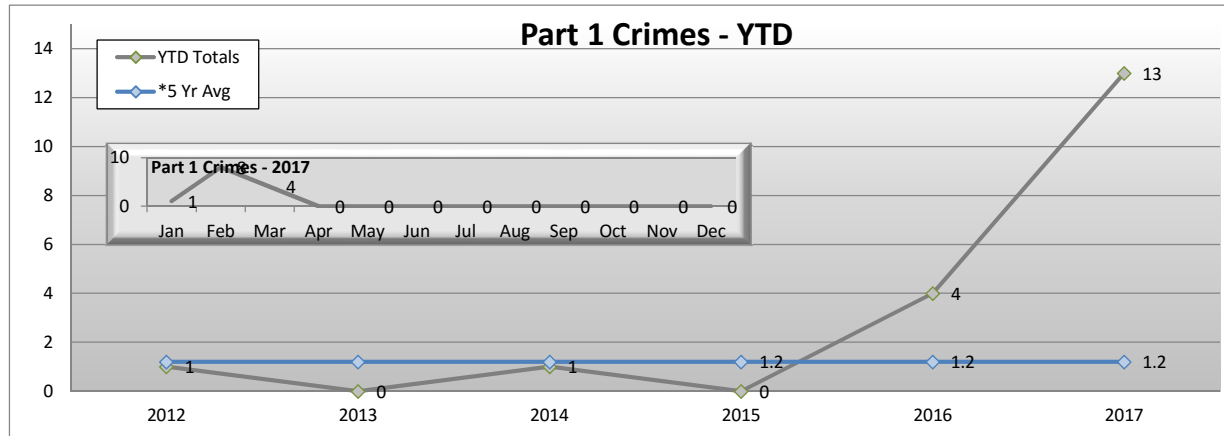
Type	Mar	YTD
Fare Evasion Citations	0	0
Other Citations	7	19
Vehicle Code Citations	97	221
<b>TOTAL</b>	<b>104</b>	<b>240</b>

## CALLS FOR SERVICE

TYPE	Mar		YTD	
	Total	Avg	Total	Avg
Emergency	3	3.3	5	4.6
Priority	15	14.3	30	13.0
Routine	18	17.9	37	22.4
<b>Total</b>	<b>36</b>	<b>15.2</b>	<b>72</b>	<b>17.3</b>

## FARE ENFORCEMENT

	Mar	YTD
Ridership	390,059	1,050,328
Contacts	405	6,388
% of Patrons Inspected	0.10	0.61
Boardings	0	0
Ride	0	0
Fare Warning	0	0



## Silver Line Highlights

The Silver Line had 9 more part 1 crimes, which is a 225% increase from the same period last year.

Part 1 crimes per 1,000,000 riders were up from the same period last year.

\*5 yr average is based on the average of part 1 crimes from 2012 - 2016.

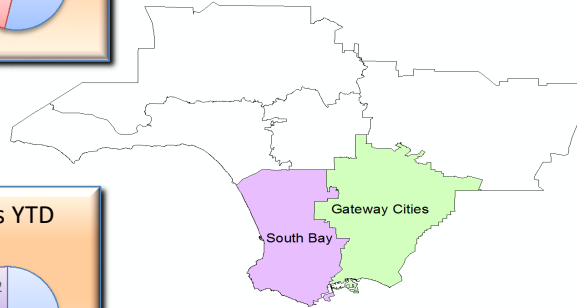
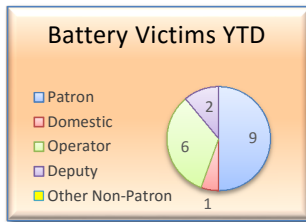
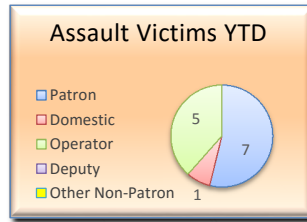
# SOUTH BUS PATROL

## REPORTED CRIME

PART 1 CRIMES	Mar	YTD
Homicide	0	0
Rape	0	0
Robbery	3	8
Agg Assault	2	8
Agg Assault on Op	2	5
Burglary	0	0
Grand Theft	4	7
Petty Theft	2	5
Motor Vehicle Theft	0	1
Burg/Theft From Vehicle	0	1
Arson	0	0
<b>SUB-TOTAL</b>	<b>13</b>	<b>35</b>
<b>Selected Part 2 Crimes</b>		
Battery	3	12
Battery Bus Operator	1	6
Sex Offenses	1	2
Weapons	1	2
Narcotics	3	5
Trespassing	0	0
Vandalism	4	11
<b>SUB-TOTAL</b>	<b>13</b>	<b>38</b>
<b>TOTAL</b>	<b>26</b>	<b>73</b>

## Part 1 Crimes per Sector

Sector	Mar	YTD
Gateway Cities	1	5
South Bay	12	30
<b>Total</b>	<b>13</b>	<b>35</b>



## ARRESTS

Type	Mar	YTD
Felony	9	25
Misdemeanor	44	128
<b>TOTAL</b>	<b>53</b>	<b>153</b>

## CITATIONS

Type	Mar	YTD
Fare Evasion Citations	17	27
Other Citations	2	6
Vehicle Code Citations	12	26
<b>TOTAL</b>	<b>31</b>	<b>59</b>

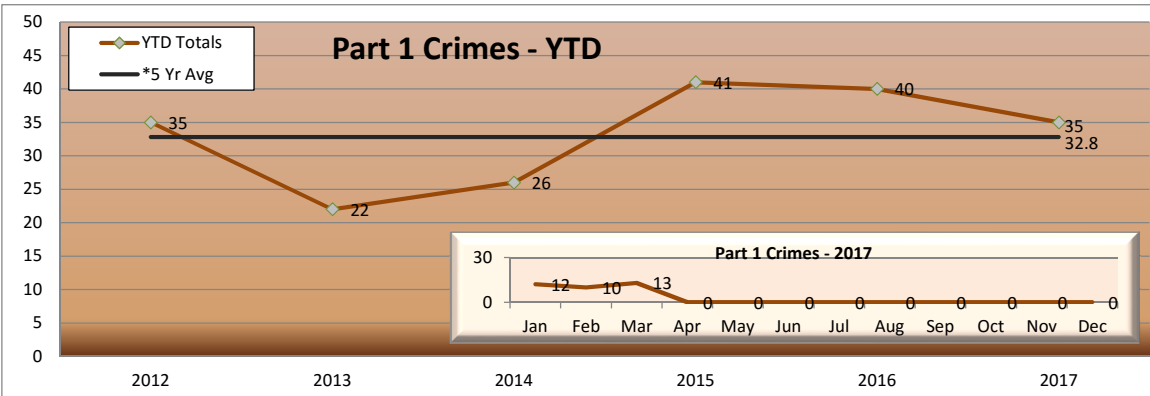
## CALLS FOR SERVICE

TYPE	Mar		YTD	
	Total	Avg	Total	Avg
Emergency	18	10.1	56	9.4
Priority	138	15.7	379	15.0
Routine	120	26.9	330	26.3
<b>Total</b>	<b>276</b>	<b>20.2</b>	<b>765</b>	<b>19.4</b>

## FARE ENFORCEMENT\*

\*South Bus Fare Enforcement data is combined with North Bus.

## Part 1 Crimes - YTD



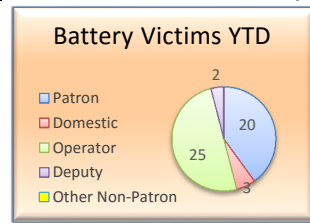
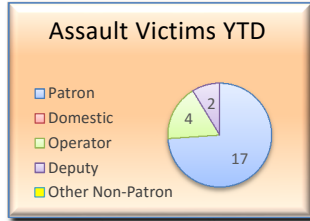
\*5 yr average is based on the average of part 1 crimes from 2012 - 2016.

## South Bus Highlights

The South Bus Lines had 5 less part 1 crime, which is a 18% decrease from the same period last year.

# NORTH BUS PATROL

REPORTED CRIME		
PART 1 CRIMES	Mar	YTD
Homicide	0	0
Rape	0	0
Robbery	4	15
Agg Assault	4	19
Agg Assault on Op	1	4
Burglary	0	0
Grand Theft	7	16
Petty Theft	10	18
Motor Vehicle Theft	0	0
Burg/Theft From Vehicle	0	0
Arson	0	0
<b>SUB-TOTAL</b>	<b>26</b>	<b>72</b>
Selected Part 2 Crimes		
Battery	9	25
Battery Bus Operator	8	25
Sex Offenses	0	6
Weapons	1	1
Narcotics	1	8
Trespassing	0	0
Vandalism	10	20
<b>SUB-TOTAL</b>	<b>29</b>	<b>85</b>
<b>TOTAL</b>	<b>55</b>	<b>157</b>



Part 1 Crimes per Sector		
Sector	Mar	YTD
San Gabriel	4	7
Westside	3	7
San Fernando	2	11
Central	17	47
<b>Total</b>	<b>26</b>	<b>72</b>

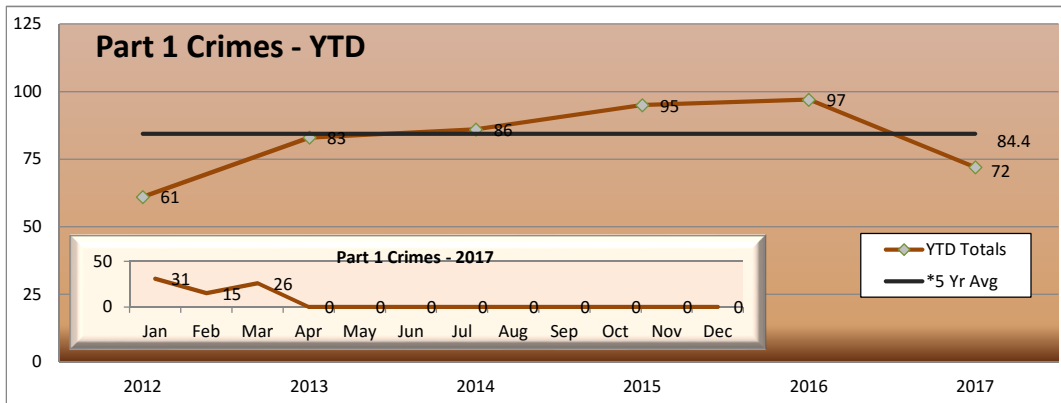


ARRESTS		
Type	Mar	YTD
Felony	3	17
Misdemeanor	39	147
<b>TOTAL</b>	<b>42</b>	<b>164</b>

CITATIONS		
Type	Mar	YTD
Fare Evasion Citations	10	35
Other Citations	9	34
Vehicle Code Citations	392	1,472
<b>TOTAL</b>	<b>411</b>	<b>1,541</b>

CALLS FOR SERVICE				
TYPE	Mar		YTD	
	Total	Avg	Total	Avg
Emergency	45	8.8	142	8.6
Priority	333	17.4	1,040	16.4
Routine	374	26.1	964	25.3
<b>Total</b>	<b>752</b>	<b>21.2</b>	<b>2,146</b>	<b>19.9</b>

FARE ENFORCEMENT		
	Mar	YTD
Ridership*	24,714,396	67,594,894
Contacts	382	1,550
% of Patrons Inspected	0.00	0.00
Boardings	0	0
Rides	0	39
Fare Warning	0	0



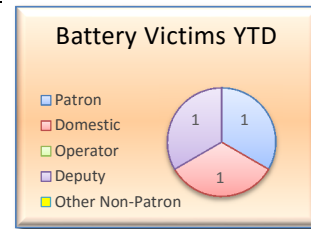
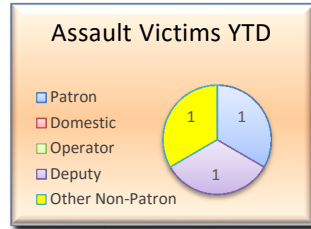
**North Bus Highlights**  
The North Bus Lines had 25 less part 1 crimes, which is a 26% decrease from the same period last year.

\*5 yr average is based on the average of part 1 crimes from 2012 - 2016.

# UNION STATION

## REPORTED CRIME

PART 1 CRIMES	Mar	YTD
Homicide	0	0
Rape	0	0
Robbery	0	1
Agg Assault	2	3
Agg Assault on Op	0	0
Burglary	1	1
Grand Theft	1	2
Petty Theft	2	10
Motor Vehicle Theft	0	0
Burg/Theft From Vehicle	0	3
Arson	0	0
<b>SUB-TOTAL</b>	<b>6</b>	<b>20</b>



## Part 1 Crimes at Union Station

Side	Mar	YTD
Westside	1	8
Eastside	5	12
<b>Total</b>	<b>6</b>	<b>20</b>



## ARRESTS

Type	Mar	YTD
Felony	3	7
Misdemeanor	3	13
<b>TOTAL</b>	<b>6</b>	<b>20</b>

## CITATIONS

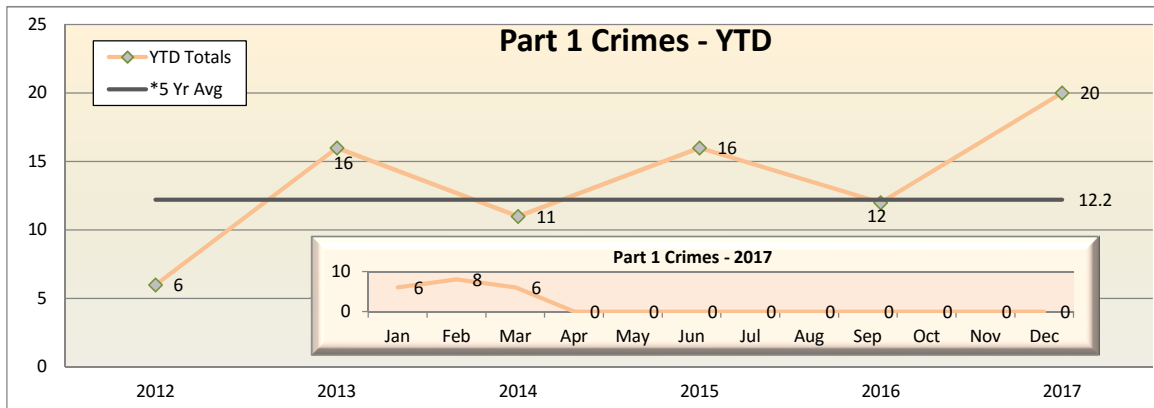
Type	Mar	YTD
Fare Evasion Citations	2	4
Other Citations	0	20
Vehicle Code Citations	0	20
<b>TOTAL</b>	<b>2</b>	<b>44</b>

## Selected Part 2 Crimes

Selected Part 2 Crimes	Mar	YTD
Battery	1	3
Battery Bus Operator	0	0
Sex Offenses	0	0
Weapons	0	1
Narcotics	0	0
Trespassing	0	0
Vandalism	0	1
<b>SUB-TOTAL</b>	<b>1</b>	<b>5</b>
<b>TOTAL</b>	<b>7</b>	<b>25</b>

## CALLS FOR SERVICE

TYPE	Mar		YTD	
	Total	Avg	Total	Avg
Emergency	0	0.0	2	6.0
Priority	24	4.3	68	6.8
Routine	19	9.5	73	15.1
<b>Total</b>	<b>43</b>	<b>6.6</b>	<b>143</b>	<b>11.0</b>



## Union Station Highlights

Union Station had 8 more part 1 crimes, which is a 67% increase from the same period last year.

\*5 yr average is based on the average of part 1 crimes from 2012 - 2016.

## Bus Operator Assault Matrix

Reason	Line	Div	Type	Date	Day	Time	Narrative	Flyer	Barrier	Arrest	Charges Requested	Charges Filed	Sentence (Probation/Time/Jail or Prison)
Policy/end of line	L210	18	Battery	3/6/2016	Sun	23:08	Sus MB/20s/508/160/Blk/Bro punched the bus op in the face for vic asking him to leave at the end of the line, no barrier (bus op standing in front of bus)	Y					
Policy/out of service	L704	10	Battery	3/7/2016	Mon	10:00	Battery sus arrested for pushing & punching bus op for asking sus to exit bus at the end of service, no barrier (bus op standing in front of bus)			Yes	242 PC	242 PC	Misdemeanor referred to diff court; Case # 6AR21962
Policy/drugs	L40	18	Battery	3/9/2016	Wed	15:55	L40 MLK Blvd/Normandie 3/9 1555hrs - Battery sus arrested for throwing cold liquid on the bus op after telling sus he could not board w/ marijuana,						
Policy/Boarding	L487	9	Battery	3/10/2016	Thu	14:20	Battery sus arrested for punching and kicking bus op outside bus when vic told her to board at passenger pickup, no barrier (outside bus)			Yes	243.3 PC	243.3 PC	Misdemeanor filed; Case # 6EM01973, Bk # 4603176
Other/Closed door on sus	L204	5	Battery	3/11/2016	Fri	23:01	Sus FB/25-35 kicked and slapped the bus op for closing the rear door on her						
Policy/Boarding	L745	10	Battery	3/12/2016	Sat	5:40	Battery sus arrested for spitting on bus op after he told sus he would have to board at the bus stop, (spit through window)			Yes	243.3 PC	243.3 PC	Convicted - 60 days jail & 3 years Summary Probation
Missed stop	L728	3	Battery	3/17/2016	Thu	10:50	Sus MB/60s/600/160-170/Bald spit on the bus op for rapid bus missing his designated stop, no barrier - but monitor						
Other/Indecent Behavior	L90	15	Assault	3/19/2016	Sat	12:10	Assault sus arrested for swinging plank at bus op outside bus when vic asked sus to exit dur to indecent behavior, no barrier (outside)			Yes	245(a)(4) PC	245(a)(4) PC	Convicted - 3 Years Formal Probation
Demand Stop	L45	1	Battery	3/19/2016	Sat	15:58	Battery sus arrested for punching bus op in the face and demanded to be let out of the bus			Yes	243.3 PC	243.3 PC	Case Rejected/Reason: Interest of Justice
Other/Closing door on sus	L270	95	Battery	3/24/2016	Thu	18:00	Sus Mw/35-40/600/180 punched the bus op in the face for not stopping to pick him up and closing the doors on his wife						
Fare	L207	5	Battery	3/25/2016	Fri	18:40	Sus MB/510/180/40yrs spit on bus op over not having fare	Y					
Missed stop	L207	5	Battery	3/26/2016	Sat	17:55	Sus FB/18-25/504/slim/Brn/Brn threw dirt on bus op after missing stop						
Missed stop	L45	1	Battery	3/27/2016	Sun	10:41	Sus FB/506/160/30-40 punched bus op 3 times for missing stop	Y					
Demand Stop	L234	15	Battery	3/29/2016	Tue	16:16	MB sus arrested for punching bus op after he demanded a stop			Yes	243.3 PC	243.3 PC	Felony filed; Case # LA083122; Arraignment Hearing

\*Highlighted in yellow: have court dates pending or have been referred to the LA County Attorney's Office with no disposition yet.



Metro

Los Angeles County  
Metropolitan Transportation  
Authority  
One Gateway Plaza  
3rd Floor Board Room  
Los Angeles, CA

## Board Report

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**File #:** 2016-0985, **File Type:** Oral Report / Presentation

**Agenda Number:** 18

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**SYSTEM SAFETY, SECURITY AND OPERATIONS COMMITTEE  
MAY 18, 2017**

### Operations Employee of the Month

# May Employees of the Month





# Employees of the Month



## Transportation

### Bus Operator

**Khanh Trinh**

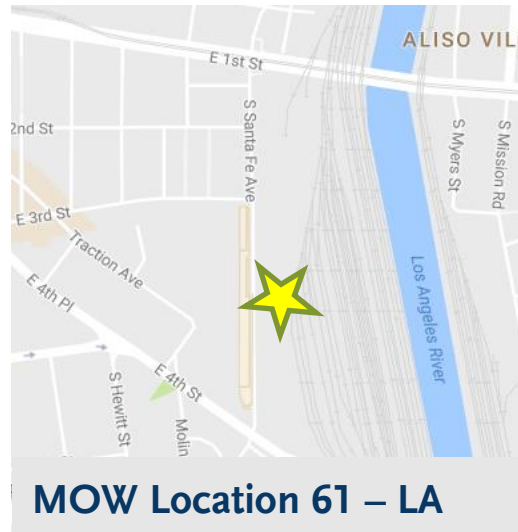


**Division 2 – LA**

## Maintenance

### Rail Signal Inspector

**Gold Tran**



**MOW Location 61 – LA**

## Logistics

### Stock Clerk

**Heriberto Serrano**



**Division 22 – Hawthorne**

Metro

Los Angeles County  
Metropolitan Transportation  
Authority  
One Gateway Plaza  
3rd Floor Board Room  
Los Angeles, CA



**Metro**

## Board Report

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**File #:** 2017-0230, **File Type:** Oral Report / Presentation

**Agenda Number:** 19

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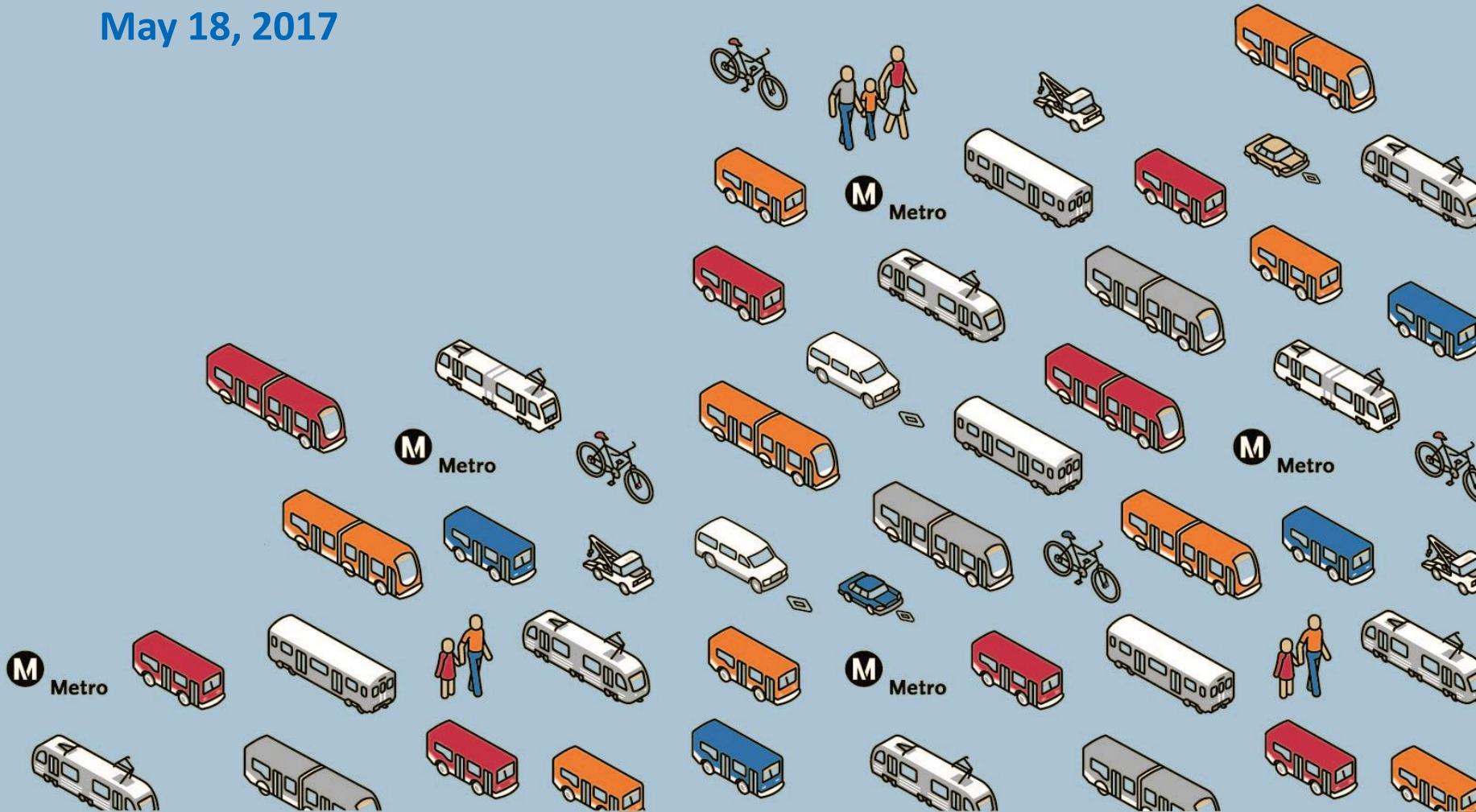
**SYSTEM SAFETY, SECURITY AND OPERATIONS COMMITTEE  
MAY 18, 2017**

RECEIVE oral report on **System Safety, Security and Operations.**

# Metro MOVES

*Maximizing Opportunities Via re-Envisioned Service*

May 18, 2017



# Purpose and Need

## Position Metro's bus network to be relevant and reflective of the transforming landscape of transportation and travel demand within the region

- Consistent with local and national trends, Metro bus ridership began declining in FY14
- CEO established an internal, multi-departmental Task Force to study the issue
- Task Force identified several county-wide trends
  - Changing travel patterns and access to and from transit
  - Shifts in demographics/lifestyles and changing workforce travel behavior
  - Slower overall travel times (including wait times) and reliability issues
  - New travel options such as mobility on-demand
- Conclusion: Metro's existing bus network is misaligned with current travel demand
- Internal Task Force transformed into the Regional Ridership Improvement Task Force (RRITF) with Metro and Muni operators collaborating to develop an action plan to increase ridership
- RRITF consultant effort will begin with a market segmentation analysis to understand transit riders, travel patterns and important service attributes
- This market research will provide a significant starting point for realigning Metro's bus network



# Purpose and Need

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## Set the foundation for future growth from transportation investments provided through Measure M

- LA County voters resoundingly passed Measure M, signifying their commitment to transit
- As the rail system expands, the bus network will play an important role with enhancing travel options and opportunities through greater connectivity
- The restructured bus network will provide the foundation to support other Measure M programs such as Active Transportation, First/Last Mile, BRT and bus system improvements



# Keys to Success

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## Inclusive, Integrated, Innovative

- Early buy-in and understanding of tradeoffs from Board and key stakeholders
- Inclusive of LA County's diverse communities (extensive public input, outreach and education throughout the project)
- Integration and coordination with Metro's Strategic Plan and LRTP update
- Collaborative process with local jurisdictions and other key stakeholders (implement service improvements in conjunction with transit supportive infrastructure and programs)
- Openness to creativity and innovation



# Next Steps

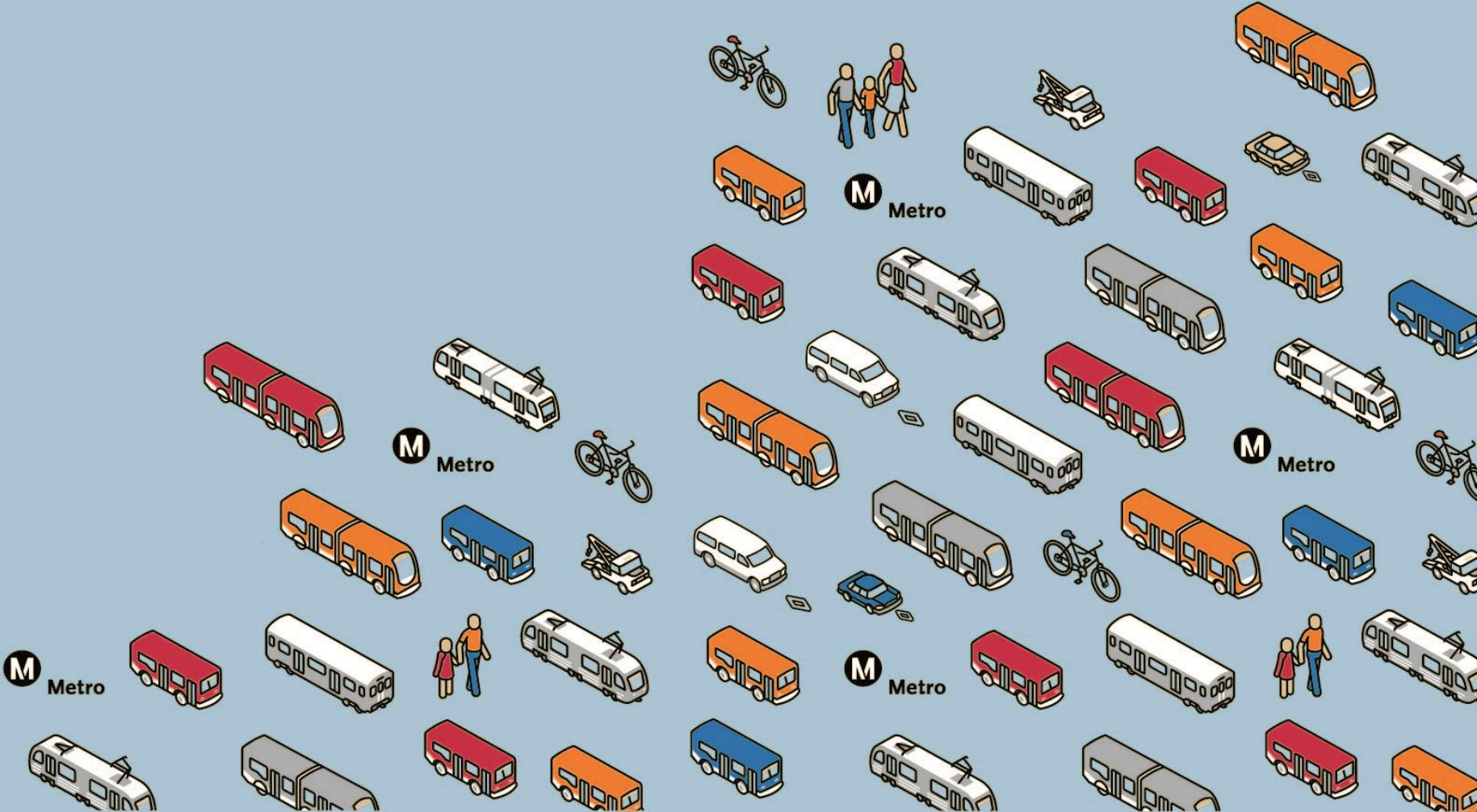
- Develop and implement a public engagement plan that generates excitement and support among policy makers, key stakeholders, transit riders and the public
- Project Schedule:

Activity	Duration	Dates
Consultant Procurement	6 months	June 2017 – Dec 2017
Project Duration	16 months	Jan 2018 – Apr 2019
Public Hearing/Board Adoption Process	4 months	May 2019 – Aug 2019
Implementation	10 months	Dec 2019 and June 2020
Total	36 months	



# Thank you

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## Board Report

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File #: 2016-1004, File Type: Contract

Agenda Number: 50.

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### SYSTEM SAFETY, SECURITY AND OPERATIONS COMMITTEE MAY 18, 2017

**SUBJECT: CONSULTANT BENCH FOR RAIL VEHICLE & SYSTEMS ENGINEERING SUPPORT**

**ACTION: AWARD BENCH CONTRACT**

#### **RECOMMENDATION**

AUTHORIZE the Chief Executive Officer to:

- A. AWARD Bench Contract No.PS37755 to consultant firms CH2M Hill, Inc., LTK Engineering Services, Mott McDonald, LLC, WSP/Parsons Brinkerhoff, and STV Inc., to establish a general account for consultant support services that will be utilized for **Rail Vehicle and Rail Systems Engineering Consultant Services**, for an amount not-to-exceed \$8,027,100, subject to resolution of protest, if any; and
- B. EXECUTE Task Work Orders within the approved total not-to-exceed amount of the Contract.

#### **ISSUE**

Metro requires as-needed consultant support services from qualified firms to support Metro Rail Vehicle and Systems Engineering capital and operating projects.

In April 2008, the Board authorized the award of Bench Contract No.OP39602112 in the total amount of \$20,000,000 to five (5) qualified consulting firms. These firms provided Metro with professional engineering and project management support to develop technical specifications, independent cost estimates and to provide oversight for the procurement and installation of our rail fleet systems and equipment. This bench contract expired in March 2017.

#### **DISCUSSION**

The bench Contract permits Metro to supplement internal resources by having available consulting firms with a wide range of specialized engineering, technical and program management experience and expertise.

The consulting firms that will form the vehicle bench have the demonstrated depth and breadth of technical and engineering experience and capacity to support Metro with the anticipated tasks and

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projects. On an as-needed basis Statements of Work will be developed, defining the type and level of support required for specific tasks and projects. Consultants on the vehicle bench will be eligible to bid for the work that they were approved under each Disciplines. This bench Contract consists of three disciplines: A) Support services for rail vehicle acquisition, overhauls and system compatibility, B) Support services for fleet reliability, operating rail vehicles, systems, and facilities, and C) Support services for traction power, rail vehicles, systems and facilities. Work will then be assigned to the successful consultant firm through task orders.

Subject to Metro's direction, the consultant shall apply appropriate engineering, technical and program management support services and resources to facilitate the timely execution of the associated deliverables for Metro's Rail Vehicle and Systems Engineering capital and operating projects.

Potential work under this bench Contract includes, but is not limited to: Specification development and review; condition based assessments of exiting fleets; car specific failure investigations; vehicle/MOC interface failure investigations; fleet reliability studies; review and development of shop maintenance practices; conduct vendor visits and audits; verification and validation of hardware and software modifications; development and testing of prototypes; development and testing of existing train control system and train control track circuits; and assist with developing specifications and procedures for TWC replacement, signal system rehabilitation, and line emergency trip system replacement.

The Diversity & Economic Opportunity Department (DEOD) has completed its evaluation of the Proposers' commitment to meet the overall twenty percent (20%) SBE/DVBE or DBE goal established for this project. The qualified firms, CH2M Hill, Inc., LTK Engineering Services, Mott McDonald, LLC, WSP/Parsons Brinkerhoff, and STV Inc., have committed to meeting the 20% goal.

### **DETERMINATION OF SAFETY IMPACT**

The required consultant support services will contribute to maintaining the rail system in a State of Good Repair which is essential in providing safe and reliable service for the Metro rail system riders.

### **FINANCIAL IMPACT**

As the support services under the bench Contract are intended to support capital and operations projects that are already funded, the funds for these expenses are included in the FY17 Operating budget and Life-of-Project budget of each individual project that these consultants will be supporting. As specific Rail Vehicle and Systems Engineering services needs arise, task orders will be issued and funded from the associated project budgets, upon approval by the responsible Project Manager. \$400,000 is included in the FY17 budget in Cost Center 3043, in account 50316 - Professional Services under various projects. Since this a multi-year contract, the cost center manager and project manager will be responsible to ensure that funding is budgeted in future years.

### **ALTERNATIVES CONSIDERED**

Staff has considered using in-house Metro resources to perform this work; however, this approach is

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not recommended as Metro does not have sufficient resources and subject matter experts available to perform this work.

The Board of Directors may choose not to authorize the Contract award for this project; however, this alternative is not recommended as this Bench Contract is critical to facilitate the timely execution and associated deliverables of Metro's Rail Vehicle Acquisition, Rail Systems Engineering and Rail Vehicle Engineering capital and operating projects.

### **NEXT STEPS**

Upon Board approval, staff will continue to competitively award individual task orders, on an as-needed basis, for engineering, technical, and program management support services.

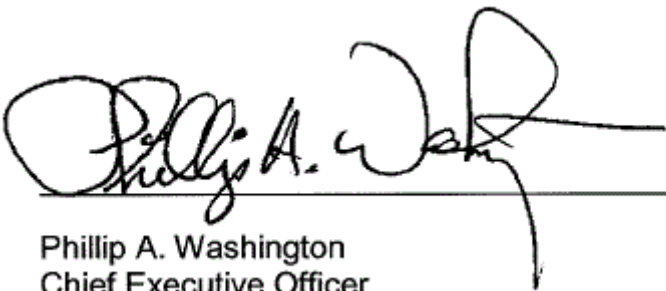
### **ATTACHMENTS**

Attachment A - Procurement Summary

Attachment B - DEOD Summary

Prepared by: Julio C. Rodriguez, Senior Engineer, Rail Vehicle Acquisition (213) 922-3169  
Nick Madanat, Senior Director, Rail Vehicle Engineering, (213)617-6281  
Annie Yang, Senior Director, Rail Vehicle Acquisition (213)922-3254  
Jesus Montes, Senior Executive Officer, Vehicle Acquisition Transit Capital Programs (213)922-3838  
Bob Spadafora, Senior Executive Officer, Rail Fleet Services (213) 922-3144

Reviewed by: James T. Gallagher, Chief Operations Officer (213)922-4424  
Debra Avila, Chief Vendor/Contract Management Officer (213)418-3051



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Phillip A. Washington  
Chief Executive Officer

## PROCUREMENT SUMMARY

CONSULTANT BENCH FOR RAIL VEHICLE AND SYSTEMS ENGINEERING  
SUPPORT / PS37755

1.	<b>Contract Number: PS37755</b>	
2.	<b>Recommended Vendor (In alphabetical order):</b> 1) CH2M Hill, Inc. 2) LTK Engineering Services, Inc. 3) Mott MacDonald, Inc., 4) Parsons Brinkerhoff, Inc. 5) STV, Inc.	
3.	<b>Type of Procurement (check one):</b> <input type="checkbox"/> IFB <input type="checkbox"/> RFP <input checked="" type="checkbox"/> RFP–Qualification Based <input type="checkbox"/> Non-Competitive <input type="checkbox"/> Modification <input type="checkbox"/> Task Order	
4.	<b>Procurement Dates:</b>	
	A. Issued: February 3, 2017	
	B. Advertised/Publicized: February 3, 2017	
	C. Pre-Proposal Conference: February 15, 2017	
	D. Proposals Due: March 6, 2017	
	E. Pre-Qualification Completed: In process	
	F. Conflict of Interest Form Submitted to Ethics: March 9, 2017	
	G. Protest Period End Date: April 21, 2017	
5.	<b>Solicitations Picked up/Downloaded:</b> 64	<b>Proposals Received:</b> 5
6.	<b>Contract Administrator:</b> Nicole Dang	<b>Telephone Number:</b> 213-922-7438
7.	<b>Project Manager:</b> Julio Rodriguez	<b>Telephone Number:</b> 213-922-3169

**A. Procurement Background**

This Board Action is to approve Contract No. PS37755 issued to establish a bench contract with qualified firms to support Metro Rail Vehicle Acquisition Department. This bench Contract contains three disciplines which are A) Support services for rail vehicle acquisition, overhauls and system compatibility, B) Support services for fleet reliability, operating rail vehicles, systems, and facilities, and C) Support services for traction power, rail vehicles, systems and facilities. Board approval of contract awards are subject to resolution of any properly submitted protest.

The RFP was issued in accordance with Metro's Acquisition Policy for a qualification based non-Architect & Engineering procurement and the contract type is a cost plus fixed fee.

Two amendments were issued during the solicitation phase of this RFP:

- Amendment No. 1, issued on February 17, 2017, revised Exhibit A entitled "Statement of Qualifications".
- Amendment No. 2, issued on February 22, 2017, revised Section 3 of the RFP document entitled "Submittal Requirements".

The pre-proposal conference was held on February 15, 2017 and 16 firms attended this meeting. A total of 13 questions were received and responded to by March 1, 2017. A total of five proposals were received on March 6, 2017.

## **B. Evaluation of Proposals**

A Proposal Evaluation Team (PET) consisting of staff from Metro Vehicle Acquisition department and Metro Service Warranty and Quality Assurance department was convened and conducted a comprehensive technical evaluation of the five proposals received.

The proposals were evaluated based on the following evaluation criteria and weights:

- Prime Firm Qualification 40% percent
- Project Manager and Experience 50% percent
- Availability/Effective Schedule/ Cost Management Plan 10% percent

The evaluation criteria are appropriate and consistent with criteria developed for other, similar professional services bench procurements. Several factors were considered when developing these weights, giving the greatest importance to the project manager and experience. This is a qualification based bench contract; therefore, firms that scored over 59 percent and met the minimum qualifications were considered qualified. Price was not an evaluation factor for establishing the qualified firms for this Bench. However, price shall be an evaluation factor for all task order solicitations and awards. All task orders will be awarded on a competitive basis.

All five proposals received were determined to be within the competitive range. The five firms within the competitive range are listed below in alphabetical order:

1. CH2M Hill, Inc.
2. LTK Engineering Services, Inc.
3. Mott MacDonald, Inc.
4. Parsons Brinckerhoff, Inc.
5. STV, Inc.

The PET met during the month of March 2017 to review the five proposals received. During the week of March 6-24, 2017, Requests for Clarification were issued to CH2M Hill, Inc., LTK Engineering Services, Inc., Mott MacDonald, Inc., Parsons Brinckerhoff, Inc. and STV, Inc. The clarification requests were mainly for additional documentation of resumes. The responses received were satisfactory. All five firms submitted proposals for disciplines A, B, and C, and all five firms were approved and qualified for all three disciplines (A, B, & C).

This professional services bench Contract is anticipated to have a cumulative total of \$8,027,100 in task orders for the three disciplines combined over the six year term of the contracts. Individual task orders will be competed between the 5 firms on the bench and awarded competitively through a Request for Proposal (RFP).

### **Qualifications Summary of Firms within the Competitive Range:**

#### **CH2M Hill, Inc. (Disciplines A, B, C)**

CH2M Hill, Inc. (CH2M) was founded in 1942 and is headquartered in Englewood, CO. CH2M has a local office in Los Angeles, CA. CH2M has 20,000 employees, including 600 transit staff that specializes in consulting, design, construction, and operation services. CH2M provided consultant support services to Metro A650 HRV Overhaul and P2000 LRV Mid Life Overhaul. CH2M is among the firms in Metro's current rail vehicle consultant support bench. CH2M has provided satisfactory rail vehicle and systems engineering services to Metro's staff.

#### **LTK Engineering Services, Inc. (Disciplines A, B, C)**

LTK Engineering Services, Inc. (LTK) was founded in 1921 and is headquartered in Ambler, Pennsylvania. LTK has a local office in Los Angeles, CA. LTK specializes in rail system engineering, maintenance facilities, signals and communications, traction electrification and fare collection. LTK clients include local, regional, state and federal public agencies, domestic and foreign operating commuter rail, rapid transit, light rail, railroads, and People Mover systems. LTK has served as Metro's vehicle engineer for the procurement of the Red Line Option cars, Metro's consultant support services for the P3010 Light Rail Vehicles. LTK is among the firms in Metro's current rail vehicle consultant support bench. LTK has provided satisfactory rail vehicle and systems engineering services to Metro's staff.

#### **Mott MacDonald, Inc. (Disciplines A, B, C)**

Mott MacDonald provides design and management of rail and transit projects and is headquartered in Los Angeles, CA. Mott MacDonald has 16,000 staff worldwide and 2,300 staff in North America in 60 offices. Mott MacDonald specializes in engineering, management, and development consultancy working in 150 countries. Mott MacDonald clients include municipals such as LA Metro, Bay Area Rapid Transit, California High Speed Rail Authority, Orange County Transportation Authority, North County Transit District (NCTD), San Bernardino County Transportation Authority (SBCTA), and Santa Clara Valley Transportation Authority. This will be Mott MacDonald's first opportunity to provide rail vehicle and systems engineering services. Mott MacDonald has provided other satisfactory services to Metro.

### **WSP/Parsons Brinckerhoff, Inc. (Disciplines A, B, C)**

WSP/ Parsons Brinckerhoff, Inc. (PB) was founded in 1885 and has a local office in Los Angeles, CA. PB has over 36,700 employees located in more than 500 offices reaching across 40 countries worldwide. PB Transit and Rail System Technical Excellence Center (TEC) maintains more than 260 engineers and technical specialists dedicated to railroad systems which includes rolling stock, signals, train controls, communications, traction power, overhead catenary systems, fare collection, operations planning, safety and security, track and rail intermodal facilities. PB through a joint venture developed the performance based technical specification for Metro HR4000 Heavy Rail Vehicle procurement. PB is among the firms in Metro's current rail vehicle consultant support bench. PB has provided satisfactory rail vehicle and systems engineering services to Metro.

### **STV, Inc. (Disciplines A, B, C)**

STV, Inc. (STV) has been in business for 100 years and has a local office in Los Angeles, CA. STV has incorporated a Vehicle Technology and Operations group into their organization which offers consulting support in rail vehicle specification development and procurement, rail vehicle condition assessment, rail vehicle overhaul specification development and support, inspection and quality control support, and failure analysis. STV through a joint venture developed the performance based technical specification for Metro HR4000 Heavy Rail Vehicle procurement. STV has provided rail engineering support to municipals such as Massachusetts Bay Transportation Authority (MBTA), Maryland MTA, City of Ottawa Confederation and LA Metro. STV has provided satisfactory rail vehicle and systems engineering services to Metro.

1	Firm	Average Score	Factor Weight	Weighted Average Score	Rank
2	<b>Mott MacDonald, Inc.</b>				<b>1</b>
3	Prime Firm Qualification	8.83	40.00%	35.32%	
4	Project Management and Experience	8.70	50.00%	43.50%	
5	Availability/Effective Schedule/Cost Management Plan	9.33	10.00%	9.33%	
	Total		100.00%	88.15%	
8	<b>STV, Inc.</b>				<b>2</b>
9	Prime Firm Qualification	8.88	40.00%	35.52%	
10	Project Management and Experience	8.33	50.00%	41.65%	
11	Availability/Effective Schedule/Cost Management Plan	9.03	10.00%	9.03%	
12	Total		100.00%	86.20%	
13	<b>LTK Engineering, Inc.</b>				<b>3</b>
14	Prime Firm Qualification	8.75	40.00%	35.00%	
15	Project Management and Experience	8.43	50.00%	42.15%	
16	Availability/Effective Schedule/Cost Management Plan	8.93	10.00%	8.93%	
17	Total		100.00%	86.08%	
18	<b>Parsons Brinckerhoff, Inc.</b>				<b>4</b>
19	Prime Firm Qualification	8.58	40.00%	34.32%	
20	Project Management and Experience	7.93	50.00%	39.65%	
21	Availability/Effective Schedule/Cost Management Plan	8.53	10.00%	8.53%	
22	Total		100.00%	82.50%	
23	<b>CH2M Hill, Inc.</b>				<b>5</b>
24	Prime Firm Qualification	8.20	40.00%	32.80%	
25	Project Management and Experience	7.87	50.00%	39.35%	
	Availability/Effective Schedule/Cost Management Plan	8.23	10.00%	8.23%	
	Total		100.00%	<b>80.38%</b>	

### C. Cost/Price Analysis

This section is not applicable to the qualification approval of a bench Contract. However, task orders relating to this bench Contract will be awarded on a competitive



basis to the firms that provide Metro with the most advantageous proposal where price is a material factor. Individual task order awards shall include, cost/price analysis, technical evaluation, independent cost estimates, and as appropriate, audits will be performed for each Task Order.

**CONSULTANT BENCH FOR RAIL VEHICLE AND SYSTEMS ENGINEERING  
SUPPORT / PS37755**

**A. Small Business Participation**

Rail Vehicle and Rail Systems Engineering Consultant Support Services Bench Proposers formed teams that included Disadvantaged Business Enterprise (DBE), Small Business Enterprise (SBE) and Disabled Veteran Business Enterprise (DVBE) firms without schedules or specific dollar commitments prior to the establishment of the bench Contract.

The Bench Contract has a DBE goal of 20% for task orders awarded with federal funds. In addition, the bench Contract has a SBE goal of 20%, inclusive of 17% SBE/3% DVBE, for task orders awarded with non-federal funds. Overall DBE, SBE, and DVBE participation for the bench will be determined based on the total aggregate of all Task Orders issued dependent upon funding source.

<b>Small Business Goal</b>	<b>20% DBE &amp; 17% SBE 3% DVBE</b>	<b>Small Business Commitment</b>	<b>20% DBE &amp; 17% SBE 3% DVBE</b>
----------------------------	--------------------------------------	----------------------------------	--------------------------------------

**Prime: Mott MacDonald LLC**

	<b>DBE Subcontractors</b>	<b>Ethnicity</b>	<b>% Committed</b>
1.	Electrical Building Systems, Inc.	Hispanic American	TBD
2.	LKG-CMC	Caucasian Female	TBD
3.	NBA Engineering	Caucasian Female	TBD
4.	Pacific Railway Enterprises	Caucasian Female	TBD
5.	Raul Bravo + Associates	Hispanic American	TBD
6.	Virginkar and Associates	Subcontinent Asian American	TBD
<b>Total DBE Commitment</b>			<b>20%</b>

	<b>SBE Subcontractors</b>	<b>% Committed</b>
1.	LKG-CMC	TBD
2.	NBA Engineering	TBD
3.	Pacific Railway Enterprises	TBD
4.	Raul Bravo + Associates	TBD
5.	Virginkar and Associates	TBD
<b>Total SBE Commitment</b>		<b>17%</b>

	<b>DVBE Subcontractors</b>	<b>% Committed</b>
1.	PSM Associates	TBD
<b>Total DVBE Commitment</b>		<b>3%</b>

**Prime: CH2M Hill**

	<b>DBE Subcontractors</b>	<b>Ethnicity</b>	<b>% Committed</b>
1.	Parthenon Corporation	Hispanic American	TBD
2.	LKG-CMC	Caucasian Female	TBD
3.	Virginkar and Associates	Subcontinent Asian American	TBD
4.	Capitol Gov't Contract Specialists	Hispanic American	TBD
5.	E.W. Moon Inc.	African American	TBD
6.	Civil Earth Engineering	Asian Pacific American	TBD
<b>Total DBE Commitment</b>			<b>20%</b>

	<b>SBE Subcontractors</b>	<b>% Committed</b>
1.	Parthenon Corporation	TBD
2.	LKG-CMC	TBD
3.	Virginkar and Associates	TBD
4.	Turner Engineering Corporation	TBD
5.	Capitol Gov't Contract Specialists	TBD
6.	E.W. Moon Inc.	TBD
7.	Civil Earth Engineering	TBD
<b>Total SBE Commitment</b>		<b>17%</b>

	<b>DVBE Subcontractors</b>	<b>% Committed</b>
1.	Capitol Gov't Contract Specialists	TBD
<b>Total DVBE Commitment</b>		<b>3%</b>

**Prime: Parsons Brinckerhoff**

	<b>DBE Subcontractors</b>	<b>Ethnicity</b>	<b>% Committed</b>
1.	Capitol Gov't Contract Specialists	Hispanic American	TBD
2.	Casamar Group	Hispanic American	TBD
3.	Information Design Consultants	African American	TBD
4.	LKG-CMC, Inc.	Caucasian Female	TBD
5.	Pacific Railways Enterprises	Caucasian Female	TBD
6.	Systems Consulting LLC	African American	TBD
7.	Virginkar & Associates Inc.	Caucasian Female	TBD
8.	VP Engineering	Subcontinent Asian American	TBD
<b>Total DBE Commitment</b>			<b>20%</b>

**Prime: Parsons Brinckerhoff (cont.)**

	<b>SBE Subcontractors</b>	<b>% Committed</b>
1.	Capitol Gov't Contract Specialists	TBD
2.	Casamar Group	TBD
3.	Information Design Consultants	TBD
4.	LKG-CMC, Inc.	TBD
5.	Pacific Railways Enterprises	TBD
6.	Systems Consulting LLC	TBD
7.	Turner Engineering Corporation	TBD
8.	Virginkar & Associates Inc.	TBD
9.	VP Engineering	TBD
<b>Total SBE Commitment</b>		<b>17%</b>

	<b>DVBE Subcontractors</b>	<b>% Committed</b>
1.	Capitol Gov't Contract Specialists	TBD
<b>Total DVBE Commitment</b>		<b>3%</b>

**Prime: LTK Engineering**

	<b>DBE Subcontractors</b>	<b>Ethnicity</b>	<b>% Committed</b>
1.	Capitol Gov't Contract Specialists	Hispanic American	TBD
2.	DAV-LEAR Systems, Inc.	African American	TBD
3.	Ramos Consulting Services	Hispanic American	TBD
4.	Virginkar & Associates	Subcontinent Asian American	TBD
<b>Total DBE Commitment</b>			<b>20%</b>

	<b>SBE Subcontractors</b>	<b>% Committed</b>
1.	Capitol Gov't Contract Specialists	TBD
2.	DAV-LEAR Systems, Inc.	TBD
3.	Ramos Consulting Services	TBD
4.	Turner Engineering Inc.	TBD
5.	Virginkar & Associates	TBD
<b>Total SBE Commitment</b>		<b>17%</b>

	<b>DVBE Subcontractors</b>	<b>% Committed</b>
1.	DAV-LEAR Systems, Inc.	TBD
<b>Total DVBE Commitment</b>		<b>3%</b>

**Prime: STV Incorporated**

	<b>DBE Subcontractors</b>	<b>Ethnicity</b>	<b>% Committed</b>
1.	Capitol Gov't Contract Specialists	Hispanic American	TBD
2.	Casamar Group	Hispanic American	TBD
3.	dHA + CALPEC	Sub-Continent Asian American	TBD
4.	ERJ Engineering Consultants	Sub-Continent Asian American	TBD
5.	E.W. Moon, Inc.	African American	TBD
6.	LKG-CMC, Inc.	Caucasian Female	TBD
7.	Virginkar & Associates	Sub-Continent Asian American	TBD
8.	VP Engineering	Sub-Continent Asian American	TBD
<b>Total DBE Commitment</b>			<b>20%</b>

	<b>SBE Subcontractors</b>	<b>% Committed</b>
1.	Capitol Gov't Contract Specialists	TBD
2.	Casamar Group	TBD
3.	dHA + CALPEC	TBD
4.	ERJ Engineering Consultants	TBD
5.	E.W. Moon, Inc.	TBD
6.	LKG-CMC, Inc.	TBD
7.	Virginkar & Associates	TBD
8.	VP Engineering	TBD
<b>Total SBE Commitment</b>		<b>17%</b>

	<b>DVBE Subcontractors</b>	<b>% Committed</b>
1.	Capitol Gov't Contract Specialists	TBD
<b>Total DVBE Commitment</b>		<b>3%</b>

**B. Living Wage and Service Contract Worker Retention Policy Applicability**

The Living Wage and Service Contract Worker Retention Policy is not applicable to this Contract.

**C. Prevailing Wage Applicability**

Prevailing wage is not applicable to this Contract.

**D. Project Labor Agreement/Construction Careers Policy**

Project Labor Agreement/Construction Careers Policy is not applicable to this Contract.



## Board Report

File #: 2017-0013, File Type: Program

Agenda Number: 16

**REVISED**  
**SYSTEM SAFETY, SECURITY AND OPERATIONS COMMITTEE**  
**EXECUTIVE MANAGEMENT COMMITTEE**  
**MAY 18, 2017**

**SUBJECT: METRO PUBLIC ART STATE OF GOOD REPAIR REPORT AND PHASED APPROACH TO ART ASSET MANAGEMENT**

**ACTION: ~~RECEIVE AND FILE~~ APPROVE PHASED APPROACH TO ART ASSET MANAGEMENT**

### **RECOMMENDATION**

**APPROVE a phased approach to art asset management in response to October 2015 Board Motion (Attachment A).**

### **ISSUE**

At the October 2015 meeting, the committee directed staff to a) provide an annual report on the state of Metro's public artworks, b) dedicate a reasonable amount of funds towards maintenance and/or restoration of Metro's public artworks, c) include conservation and/or restoration of existing artworks in all future refurbishment projects, d) budget for maintenance of new artworks as they come online, e) create a regular maintenance plan for each Metro artwork, f) develop an action plan to restore Metro artworks that are not functioning as intended, including the restoration of artwork altered by the Blue Line Upgrades Project. This report provides the requested response.

### **DISCUSSION**

There are currently over 165 permanent artworks installed in Metro stations and facilities throughout the Los Angeles County and these artworks are an important part of the customer experience. While Operations staff regularly removes dust, dirt and debris from a number of artworks as part of their general station cleaning, the majority of the public artworks in the Metro system require special attention and care due to their unique nature and location (Attachment B).

#### **Phased Artwork Maintenance Plan for Existing Lines**

A phased approach to artwork maintenance and ongoing asset management is underway. Per Board direction, Metro began to address the backlog of deferred conservation and maintenance in FY17. The focus and priority has been on the Blue Line. Funds to replace artworks removed/altered by the Blue Line Upgrade Project have been secured and a proposal to refurbish the long non-functioning artwork in the Blue Line tunnel is under consideration as a FY18 Capital Project. A dedicated staff

person is assigned to Blue Line art asset management and has initiated artwork repairs, refurbishments and replacements. This staff member also is developing artwork inventories, condition assessments, and catalogued art documentation as well as preparing comprehensive care and maintenance plans tailored to each of the line's unique artworks. Consultants, including artists, conservators, fabricators and other specialized technicians assist with this work. Metro Art is now implementing regular ongoing Blue Line art asset care and management to ensure the artworks are kept in a state of good repair moving forward.

The next line being phased into a regular art asset management plan is the Red Line, which turns 25 this year. Staff will develop a phased plan to begin art asset management on the Red Line, including a request for additional staff resources in FY19 to address artwork repairs and refurbishments as well as annual inspections, care, and maintenance for the wide range of artworks along the line. Resources for the Green and Gold Lines will be requested as they reach their 20-25 year anniversaries, in FY 21 for the Green Line and FY23 for the Gold Line, as outlined in Attachment B.

There are several benefits to this phased line-by-line approach. With a large art program of 165 projects throughout the system, it allows staff to focus on the oldest art on the system first, and grow the Art Asset Management Program over time as resources are secured. Having a dedicated staff person assigned to care for all of the artworks on a particular line provides clear roles and responsibilities and follows the process of how Operations assigns their staff. Art Asset Project Managers will work directly with the broader Operations team to address site specific needs. They will also work directly with Construction staff to ensure retrofits and station modifications do not negatively impact the artworks as has occurred in the past.

### **New Lines**

In the future, when new lines become operational, art asset management resources should be established along with Operations staff and resource plans in order to ensure appropriate care and art asset management from the onset. Metro has traditionally only funded art program staff for capital project delivery and not for ongoing operational purposes. For example, when the Expo 2 and Foothill Extensions were opened, none of the positions included in the operations staffing plan were allocated to oversee and implement art asset management. Moving forward, staffing resources will be essential to care for the significant number of artworks that will be added to the system through new lines and facilities. As with other assets, once an artwork has fallen into disrepair, its deterioration accelerates and the cost of restoration increases, so it is best to manage that asset as it enters into service.

### **NEXT STEPS**

Staff will continue to pursue a phased art asset management approach and will work to ensure the aesthetic integrity and longevity of the systems art assets as resourced. Staff will work cross-departmentally to apply lessons learned and to ensure that care and management of artworks is included in future operational start up plans. As directed by the Board, staff will provide an annual report on the state of the agency's artworks.

### **ATTACHMENTS**

Attachment A - October 2015 Board Directive

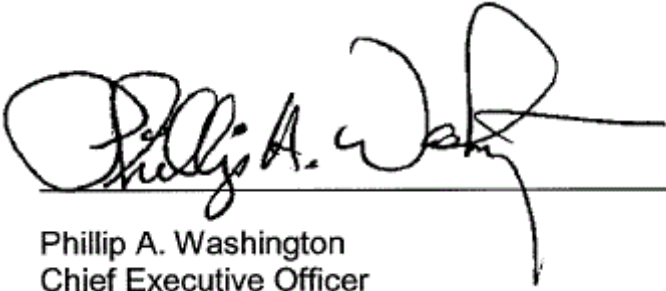
Attachment B - Metro Public Art Collection Asset Condition Report

Attachment C - Examples of Artwork in Need of Repair or Refurbishment

Attachment D - Art Asset Management Board Report Presentation

Prepared by: Maya Emsden, Deputy Executive Officer (213) 922-2720

Reviewed by: Pauletta Tonilas, Chief Communications Officer, (213) 922-3777



Phillip A. Washington  
Chief Executive Officer



**MOTION BY:**

**DIRECTOR JACQUELYN DUPONT-WALKER, SUPERVISOR SHEILA KUEHL  
AND DIRECTOR JOHN FASANA**

**MTA Operations Committee**

October 15, 2015

**Item 44: MTA Public Art**

MTA's public art is an important part of the customer experience.

Public art that is maintained in a state of good repair reinforces the fact that MTA is caring for its system and cares about the experience of its customers.

Conversely, public art that is not in a state of good repair reinforces a perception that MTA is not caring for its system and does not have regard for the experience of its customers.

The first public art in the MTA system was installed in 1991, nearly 25 years ago. Today, MTA has a total of 152 public artworks across all of its rail lines, Union Station, the Gateway Center complex, Division 9, Division 13, and other locations.

Currently, 19 of MTA's 152 public artworks are not functioning as intended due to various factors, including vandalism, electrical failure, and capital projects.

I, THEREFORE, MOVE that the Board instruct the CEO to:

- A. Provide an annual report on the state of MTA's public artworks.
- B. Beginning with the Fiscal Year 2017 budget, dedicate a reasonable amount of funds towards maintenance and/or restoration of MTA public artworks.
- C. Include conservation and/or restoration of existing MTA public artworks in all future line, station, and facility refurbishment projects.
- D. Budget additional funds as needed for maintenance of new MTA public artworks, such as artwork on the Expo Line Phase 2 and Gold Line Foothill Extension.
- E. Create a regular maintenance plan for each MTA public artwork.

CONTINUED

F. Develop an action plan to restore MTA public artworks that are not functioning as intended, including consideration of using remaining Blue Line Upgrades Project funding for the restoration of artwork altered by the Blue Line Upgrades Project.

G. Report back on all the above during the February 2016 MTA Board cycle.

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## Metro Public Art Collection Asset Report

Metro Blue Line					
Station	Artist / Artwork Title / Components	Year Installed	Annual Maintenance Requirements	Condition Status	FY18 Action Plan
1	Blue Line Tunnel <i>Thomas Eatherton</i> <i>Unity</i> LED light sculpture installations	1991	NA	Not functioning as intended. Electronic artwork requires refurbishment of 82 lightworks.	FY18 Capital Budget has been requested to replace fiber-optic artwork with new, more efficient LED panels.
2	Wardlow <i>Jacqueline Dreager</i> <i>Great Gathering Place</i> Fiberglass, bronze and steel sculptures; Concrete and steel stools; Glass medallion with imagery	1992	Conduct detailed annual artwork inspection and cleaning. Document conditions. Biennial application of gel-coat and wax at fiberglass and bronze elements. Specialized or minor repairs when needed.	Fiberglass artwork sculptural elements are deteriorating.	Perform annual artwork inspections. Document artwork and produce detailed condition and corrective action report. Clean and apply gel-coat and wax at fiberglass and bronze elements
3	7th Street / Metro Center <i>Joyce Kozloff</i> <i>The Movies: Fantasies and Spectacles</i> Ceramic tile murals	1993	Conduct detailed annual artwork inspection and cleaning. Document conditions. Biennial application of sealant along grout. Specialized or minor repairs when needed.	Ceramic artwork tile is damaged.	Perform annual artwork inspections. Document artwork and produce detailed condition and corrective action report. Implement minor repairs, clean and seal grout.
4	7th Street / Metro Center <i>Roberto Gil de Montes</i> <i>Heaven to Earth</i> Ceramic tile murals	1993	Conduct detailed annual artwork inspection and cleaning. Document conditions. Biennial application of sealant along grout. Specialized or minor repairs when needed.	Ceramic artwork tile is damaged.	Perform annual artwork inspections. Document artwork and produce detailed condition and corrective action report. Implement minor repairs, clean and seal grout.
5	Pico <i>Robin Brailsford</i> <i>Time and Presence</i> Painted steel canopy panels	1993	Conduct detailed annual artwork inspection and cleaning. Document conditions. Biennial application of coatings. Specialized or minor repairs when needed.	Paint at artwork panels is fading.	Perform annual artwork inspections. Document artwork and produce detailed condition and corrective action report. Clean and re-coat panels.
6	San Pedro Street <i>Sandra Rowe</i> <i>Hope, Dream, Path, Focus, Belief</i> Patinated, etched, pigmented waxed bronze panels; stainless steel kinetic sculptures	1993	Conduct detailed annual artwork inspection, documentation and cleaning. Biennial application of sealant. Specialized or minor repairs when needed.	Paint at artwork panels has faded. Kinetic elements are damaged.	Perform annual artwork inspections. Document artwork and produce detailed condition and corrective action report. Clean and re-coat panels, repair kinetic elements.
7	Willowbrook / Rosa Parks <i>Joe Sam</i> <i>Hide-n-Seek</i> Painted steel sculpture	1993	Conduct detailed annual artwork inspection and cleaning. Document conditions. Biennial application of coatings. Specialized or minor repairs when needed.	Sculptures have sustained pigeon damage and paint has faded.	Perform annual artwork inspections. Document artwork and produce detailed condition and corrective action report. Clean and re-coat sculptures.
8	Grand / LATT <i>Mark Lere</i> <i>Who, What, Where?</i> Etched and paint filled granite tile paving; etched and paint filled concrete	1994	Completely removed as a result of Blue Line refurbishment Project. CP in place with Artist to replace artwork.	Artwork completely removed during Metro Blue Line Refurbishment Project.	Manage Artist contract to replace artwork. Scheduled completion FY18.
9	Vernon <i>Horace Washington</i> <i>A Tribute to Industry</i> Bronze and powder coated steel stools; galvanized steel benches; stainless steel and painted steel sculpture; ceramic tile	1994	Conduct detailed annual artwork inspection, documentation and cleaning. Biennial application of sealant. Specialized or minor repairs when needed.	Paint at artwork panels is fading.	Perform annual artwork inspections. Document artwork and produce detailed condition and corrective action report. Clean and re-coat sculptures, clean and seal grout tile.
10	103rd Street / Watts Towers <i>Roberto Salas</i> <i>Blue Line Totems in Red</i> Painted steel columns; ceramic tile	1994	Partially removed as a result of Blue Line refurbishment Project. CP in place with Artist to replace artwork.	Artwork partially removed during Metro Blue Line Refurbishment Project.	Manage Artist contract to replace artwork. Scheduled completion FY18.

Metro Blue Line					
Station	Artist / Artwork Title / Components	Year Installed	Annual Maintenance Requirements	Condition Status	FY18 Action Plan
11	Pacific Coast Highway <i>Joe Lewis</i> <i>Twelve Principals</i> Ceramic tile medallions	1994	Conduct detailed annual artwork inspection and cleaning. Document conditions. Biennial application of sealant along grout. Specialized or minor repairs when needed.	Artwork medallions require cleaning.	Perform annual artwork inspections. Document artwork and produce detailed condition and corrective action report. Implement minor repairs, clean and seal grout.
12	Anaheim Street Terry Braunstein <i>Local Odysseys</i> Porcelain enamel medallions	1994	Conduct detailed annual artwork inspection and cleaning. Document conditions. Specialized or minor repairs when needed.	Artwork medallions require cleaning.	Perform annual artwork inspections. Document artwork and produce detailed condition and corrective action report. Implement minor repairs and clean.
13	Slauson East Los Streetscapers <i>South Central Suite</i> Porcelain enamel panels; ceramic tile and pigmented concrete and ceramic tile murals	1995	Conduct detailed annual artwork inspection and cleaning. Document conditions. Biennial application of sealant along grout. Specialized or minor repairs when needed.	Ceramic artwork tile is damaged.	Perform annual artwork inspections. Document artwork and produce detailed condition and corrective action report. Implement minor repairs, clean and seal grout.
14	Compton Eva Cockcroft <i>Past, Present and Future</i> Ceramic tile panels; ceramic tile columns	1995	Conduct detailed annual artwork inspection and cleaning. Document conditions. Biennial application of sealant along grout. Specialized or minor repairs when needed.	Ceramic artwork tile is damaged.	Perform annual artwork inspections. Document artwork and produce detailed condition and corrective action report. Implement minor repairs, clean and seal grout.
15	5th Street Jim Isermann <i>Failed Ideals</i> Stain glass medallions	1995	Partially removed as a result of Blue Line refurbishment Project. CP in place with Artist to replace artwork.	Artwork partially removed during Metro Blue Line Refurbishment Project.	Manage Artist contract to replace artwork. Scheduled completion FY18.
16	1st Street Paul Tzanetopoulos <i>Breezy and Delightful</i> Porcelain enamel kinetic medallions	1995	Conduct detailed annual artwork inspection, documentation and cleaning. Biennial application of coatings and sealant. Specialized or minor repairs when needed.	Artwork medallions require cleaning. Kinetic elements are damaged.	Perform annual artwork inspections. Document artwork and produce detailed condition and corrective action report. Clean medallions panels, repair kinetic elements.
17	Downtown Long Beach Patrick Mohr <i>Angel Train</i> Anodized aluminum sculptures	1995	Conduct detailed annual artwork inspection and cleaning. Document conditions. Biennial application of sealant and wax. Specialized or minor repairs when needed.	Artwork requires cleaning and application of wax sealant.	Perform annual artwork inspections. Document artwork and produce detailed condition and corrective action report. Clean and apply sealant and wax.
18	Pacific Ave June Edmonds <i>We Know Who We Are</i> Glass mosaic medallions	1995	Conduct detailed annual artwork inspection and cleaning. Document conditions. Biennial application of sealant along grout. Specialized or minor repairs when needed.	Artwork medallions require cleaning.	Perform annual artwork inspections. Document artwork and produce detailed condition and corrective action report. Clean and apply sealant to grout.
19	Artesia Lynn Aldrich <i>Blue Line Oasis</i> Stainless steel and ceramic sculpture; glass mosaic tile, painted steel wishing well; glass mosaic panels	1996	Conduct detailed annual artwork inspection and cleaning. Document conditions. Biennial application of sealant along grout. Specialized or minor repairs when needed.	Ceramic, glass mosaic panels and sculpture are damaged.	Perform annual artwork inspections. Document artwork and produce detailed condition and corrective action report. Implement minor repairs, clean and apply sealant to grout.
20	Washington Elliot Pinkney <i>Running for the Blue Line</i> Painted steel panels; painted columns	1997	Conduct detailed annual artwork inspection and cleaning. Document conditions. Biennial application of coatings. Specialized or minor repairs when needed.	Paint has failed at artwork panels. Painted columns incorrectly painted system color.	Perform annual artwork inspections. Document artwork and produce detailed condition and corrective action report. Clean and re-coat sculptures.
21	Del Amo Colin Gray <i>Del Amo Wheel</i> Glass fiber reinforced concrete sculpture	1999	Conduct detailed annual artwork inspection, documentation and cleaning. Biennial application of coatings and sealant. Specialized or minor repairs when needed.	Visible graffiti and minor cracking at artwork surface.	Perform annual artwork inspections. Document artwork and produce detailed condition and corrective action report. Implement minor repairs, clean and apply sealant.

Metro Blue Line					
Station	Artist / Artwork Title / Components	Year Installed	Annual Maintenance Requirements	Condition Status	FY18 Action Plan
22	7th Street / Metro Center Rotating Artist <i>Rotating Photo Installations</i> Anodized aluminum, plexiglass, duratrans film	2001	Conduct detailed annual artwork inspection, documentation and cleaning. Annual cleaning and replacement of bulbs at the time of artwork rotation.	Ballast and polycarbonate require replacement.	Perform annual artwork inspections. Document artwork and produce detailed condition and corrective action report. Clean, replace polycarbonate facing, replace light bulbs, rotate artwork.
23	7th Street / Metro Center K. Kobayashi, N. Korten & M. Perlas <i>Plantings</i> Pigmented concrete benches; cast aluminum, painted steel, gobos and electrical components	2002	Conduct detailed annual artwork inspection and cleaning. Document conditions. Specialized cleaning of gobos and electrical components, replacement of lighting. Biennial application of sealant. Minor repairs when needed.	All projection units are broken. Electrical is outdated and not functioning as intended. Expo Rail Line impacts altered artwork location.	Perform annual artwork inspections. Document artwork and produce detailed condition and corrective action report. Implement minor repairs, clean and apply sealant to grout.
24	Willowbrook / Rosa Parks <i>Michael Massenburg, Robin Strayhorn</i> <i>Pathways To Freedom</i> Glass mosaic, ceramic tile and concrete benches	2002	Conduct detailed annual artwork inspection and cleaning. Document conditions. Biennial application of sealant along grout. Specialized or minor repairs when needed.	Benches are damaged.	Perform annual artwork inspections. Document artwork and produce detailed condition and corrective action report. Implement minor repairs, clean and apply sealant to grout.
25	Firestone Ricardo Mendoza <i>The Will to Progress</i> Ceramic tile mural panels	2004	Conduct detailed annual artwork inspection and cleaning. Document conditions. Biennial application of sealant along grout. Specialized or minor repairs when needed.	Ceramic artwork tile is damaged.	Perform annual artwork inspections. Document artwork and produce detailed condition and corrective action report. Implement minor repairs, clean and seal grout.
26	Florence Ricardo Duffy <i>A Florence Moment</i> Ceramic tile murals	2005	Conduct detailed annual artwork inspection and cleaning. Document conditions. Biennial application of sealant along grout. Specialized or minor repairs when needed.	Ceramic artwork tile requires cleaning.	Perform annual artwork inspections. Document artwork and produce detailed condition and corrective action report. Clean and seal grout.
27	Willow Merge Conceptual Design <i>Out of Sight</i> Glass canopy with laminated imagery, GFRC bench	2006	Conduct detailed annual artwork inspection, documentation and cleaning. Biennial application of sealant. Specialized or minor repairs when needed.	Bench is damaged.	Perform annual artwork inspections. Document artwork and produce detailed condition and corrective action report. Implement minor repairs, clean and seal.
28	Willowbrook / Rosa Parks Judy Baca <i>Metate Bench</i> GFRC benches with ceramic tile	2008	Conduct detailed annual artwork inspection, documentation and cleaning. Biennial application of sealant. Specialized or minor repairs when needed.	Bench is damaged.	Perform annual artwork inspections. Document artwork and produce detailed condition and corrective action report. Implement minor repairs, clean and seal.

Metro Red Line					
Station	Artist / Artwork Title / Components	Year Installed	Annual Maintenance Requirements	Condition Status	FY19 Proposed Action Plan
29	Union Station Christopher Sproat <i>Union Chairs</i> Granite benches	1993	Conduct detailed annual artwork inspection and develop condition report. Document conditions and develop Maintenance Requirements. Specialized or minor repairs when needed.	Graffiti etchings at granite benches. Artwork is grimy, in need of cleaning.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
30	Union Station Terry Schoonhoven <i>Traveler</i> Ceramic tile mural	1993	Conduct detailed annual artwork inspection, documentation and cleaning. Biennial application of coatings and sealant. Specialized or minor repairs when needed.	Artwork is grimy, in need of cleaning.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
31	Union Station Cynthia Carlson <i>LA: City of Angels</i> Hand painted mural with reliefs	1993	Conduct detailed annual artwork inspection and cleaning. Document conditions. Biennial application of gel-coat and wax at fiberglass and bronze elements. Specialized or minor repairs when needed.	Artwork mural requires lighting.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
32	Civic Center / Grand Park Johnathan Borofsky <i>I Dreamed I Could Fly</i> Hand painted fiberglass sculpture; audio playback system; spotlights	1993	Conduct detailed annual artwork inspection, documentation and cleaning. Biennial application of coatings and software update at audio component. Specialized or minor repairs when needed.	Artwork is grimy, in need of cleaning and lighting replacement. Audio component requires software update.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
33	Pershing Square Stephen Antonakos <i>Neons for Pershing Square</i> Neon sculptures	1993	Conduct detailed annual artwork inspection, documentation and cleaning. Biennial replacement of Neon Transformers. Specialized or minor repairs when needed.	Artwork is grimy, in need of cleaning. Neon transformers are in need of replacement.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
34	Westlake / MacArthur Park Francisco Letelier <i>El Sol/La Luna</i> Ceramic tile murals	1993	Conduct detailed annual artwork inspection, documentation and cleaning. Biennial application of coatings and sealant. Specialized or minor repairs when needed.	Water intrusion at station at walls impacting Artwork mural. Artwork is grimy, in need of cleaning and sealant.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
35	Westlake / MacArthur Park Therman Statom <i>Into the Light</i> Glass skylight; acrylic, aluminum, stainless steel and painted steel sculptures; ceramic tile	1993	Conduct detailed annual artwork inspection, documentation and cleaning. Biennial replacement of lighting. Specialized or minor repairs when needed.	Artwork is grimy, in need of cleaning and lighting replacement.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
36	Vermont / Santa Monica Robert Millar <i>Untitled</i> Text painted on walls throughout; aluminum and polycarbonate panels; colored lighting	1993	Conduct detailed annual artwork inspection, documentation and cleaning. Biennial application of coatings and sealant. Specialized or minor repairs when needed.	Lighting component (entrance lighting) is outdated and requires complete renovation. Artwork is grimy, in need of cleaning.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
37	Wilshire / Vermont Peter Shire <i>Los Angeles Seen</i> Painted steel and stainless steel sculptures	1996	Conduct detailed annual artwork inspection, documentation and cleaning. Biennial application of coatings and sealant. Specialized or minor repairs when needed.	Kinetic motorized component not working. Artworks in need of major cleaning.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.

Metro Red Line					
Station	Artist / Artwork Title / Components	Year Installed	Annual Maintenance Requirements	Condition Status	FY19 Proposed Action Plan
38	Vermont / Beverly George Stone <i>Untitled</i> Glass fiber reinforced concrete sculptural rock formations	1999	Conduct detailed annual artwork inspection, documentation and cleaning. Biennial application of coatings and sealant. Specialized or minor repairs when needed.	Graffiti damage. Artwork is grimy, in need of cleaning and lighting replacement.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
39	Vermont / Sunset Michael Davis <i>Ecliptic/Illume</i> Porcelain, stainless steel, illumination	1999	Conduct detailed annual artwork inspection, documentation and cleaning. Biennial application of coatings and sealant. Specialized or minor repairs when needed.	Lighting component is not functioning. Artwork is grimy, in need of cleaning.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
40	Hollywood / Western May Sun <i>Untitled</i> Painted aluminum and polycarbonate sculptures; lighting; terrazzo and copper paving murals; etched granite; patinated bronze; ceramic tile throughout	1999	Conduct detailed annual artwork inspection, documentation and cleaning. Biennial replacement of lighting and application of coatings and sealant. Specialized or minor repairs when needed.	Graffiti damage. Artwork is grimy, in need of cleaning and lighting replacement.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
41	Hollywood / Vine Gilbert "Magu" Lujan <i>Hooray for Hollywood</i> Painted fiberglass and pigmented concrete benches, hand painted ceramic tiles	1999	Conduct detailed annual artwork inspection, documentation and cleaning. Biennial replacement of lighting and application of coatings and sealant. Specialized or minor repairs when needed.	All platform sculptural elements damaged and removed.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
42	Hollywood / Highland Sheila Klein <i>Underground Girl</i> Painted aluminum fixtures, electrical; aluminum and stainless sculpture	2000	Conduct detailed annual artwork inspection, documentation and cleaning. Biennial replacement of lighting and application of coatings and sealant. Specialized or minor repairs when needed.	Electronic artwork not working. Artwork is grimy, in need of cleaning and lighting replacement.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
43	Universal City / Studio City Margaret Garcia <i>Tree of Califas</i> Carved ceramic tile; stainless steel, painted steel and granite benches; laminated imagery	2000	Conduct detailed annual artwork inspection, documentation and cleaning. Biennial application of coatings and sealant. Specialized or minor repairs when needed.	Artwork is grimy, in need of cleaning and sealant.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
44	North Hollywood Anne Marie Karlsen <i>Kaleidoscope Dreams</i> Ceramic tile	2000	Conduct detailed annual artwork inspection, documentation and cleaning. Biennial replacement of lighting and application of coatings and sealant. Specialized or minor repairs when needed.	Graffiti damage. Artwork is grimy, in need of cleaning and lighting replacement.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
45	7th Street / Metro Center Rotating Artist <i>Rotating Photo Installations</i> Anodized aluminum, plexiglass, duratrans film	2001	Conduct detailed annual artwork inspection, documentation and cleaning. Annual cleaning and replacement of bulbs at the time of artwork rotation.	Ballast and polycarbonate require replacement.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
46	Vermont / Beverly Rotating Artist <i>Rotating Photo Installations</i> Anodized aluminum, plexiglass, duratrans film	2001	Conduct detailed annual artwork inspection, documentation and cleaning. Annual cleaning and replacement of bulbs at the time of artwork rotation.	Ballast and polycarbonate require replacement.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.

Metro Red Line					
Station	Artist / Artwork Title / Components	Year Installed	Annual Maintenance Requirements	Condition Status	FY19 Proposed Action Plan
47	Hollywood / Highland Rotating Artist <i>Rotating Photo Installations</i> Anodized aluminum, plexiglass, duratrans film	2001	Conduct detailed annual artwork inspection, documentation and cleaning. Annual cleaning and replacement of bulbs at the time of artwork rotation.	Ballast and polycarbonate require replacement.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
48	Universal City / Studio City Rotating Artist <i>Rotating Photo Installations</i> Anodized aluminum, plexiglass, duratrans film	2001	Conduct detailed annual artwork inspection, documentation and cleaning. Annual cleaning and replacement of bulbs at the time of artwork rotation.	Ballast and polycarbonate require replacement.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
49	7th Street / Metro Center K. Kobayashi, N. Korten & M. Perlas <i>Plantings</i> Pigmented concrete benches; cast aluminum, painted steel, gobos and electrical components	2002	Conduct detailed annual artwork inspection, documentation and cleaning. Annual cleaning and replacement of bulbs at the time of artwork rotation.	Ballast and polycarbonate require replacement.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
50	Civic Center / Grand Park Peter Requam <i>Civic Center Benches</i> Granite benches	2004	Conduct detailed annual artwork inspection and develop condition report. Document conditions and develop Maintenance Requirements. Specialized or minor repairs when needed.	Graffiti etchings at granite benches. Artwork is grimy, in need of cleaning.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
51	Civic Center / Grand Park Samm Kunce <i>In the Living Rock</i> Glass mosaic and granite murals	2004	Conduct detailed annual artwork inspection and develop condition report. Document conditions and develop Maintenance Requirements. Specialized or minor repairs when needed.	Graffiti etchings at granite artwork. Artwork is grimy, in need of cleaning.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
52	Vermont / Santa Monica George Legrady <i>Kinetic Flow</i> Porcelain enamel mural	2006	Conduct detailed annual artwork inspection and develop condition report. Document conditions and develop Maintenance Requirements. Specialized or minor repairs when needed.	Minor damage at artwork face. Artwork is grimy, in need of cleaning.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
53	Civic Center Station Faith Ringgold <i>People Portraits: in Creativity, Performing, Sports &amp; Fashion</i> Glass mosaic panels	2010	Conduct detailed annual artwork inspection and develop condition report. Document conditions and develop Maintenance Requirements. Specialized or minor repairs when needed.	Artwork is grimy, in need of cleaning and sealant.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
54	Westlake / MacArthur Park Sonia Romero <i>MacArthur Park, Urban Oasis</i> Hand carved porcelain mosaic panels	2010	Conduct detailed annual artwork inspection and develop condition report. Document conditions and develop Maintenance Requirements. Specialized or minor repairs when needed.	Water intrusion at station at walls impacting Artwork mural. Artwork is grimy, in need of cleaning and sealant.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
55	Vermont / Beverly Tyree Guyton <i>People in Motion</i> Glass mosaic mural	2010	Conduct detailed annual artwork inspection and develop condition report. Document conditions and develop Maintenance Requirements. Specialized or minor repairs when needed.	Artwork is grimy, in need of cleaning and sealant.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
56	Universal City / Studio City Stephen Johnson <i>Untitled</i> Glass mosaic mural	2010	Conduct detailed annual artwork inspection and develop condition report. Document conditions and develop Maintenance Requirements. Specialized or minor repairs when needed.	Artwork is grimy, in need of cleaning and sealant.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.



Metro Red/Purple Line						
	Station	Artist / Artwork Title / Components	Year Installed	Annual Maintenance Requirements	Condition Status	FY19 Proposed Action Plan
57	Wilshire / Normandie	Frank Romero <i>Festival of Masks Parade</i> Painted aluminum mural	1996	Conduct detailed annual artwork inspection and develop condition report. Document conditions and develop Maintenance Requirements. Specialized or minor repairs when needed.	Artwork is grimy, in need of cleaning and sealant.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
58	Wilshire / Western	Richard Wyatt <i>People Coming People Going</i> Ceramic tile murals	1996	Conduct detailed annual artwork inspection and develop condition report. Document conditions and develop Maintenance Requirements. Specialized or minor repairs when needed.	Artwork is grimy, in need of cleaning and sealant.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
59	Wilshire / Normandie	Rotating Artist <i>Rotating Photo Installations</i> Anodized aluminum, plexiglass, duratrans film	2001	Conduct detailed annual artwork inspection, documentation and cleaning. Annual cleaning and replacement of bulbs at the time of artwork rotation.	Ballast and polycarbonate require replacement.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
60	Wilshire / Western	Pae White <i>The Beppins</i> Pigmented concrete stools; seeded lithocrete paving	2003	Conduct detailed annual artwork inspection and develop condition report. Document conditions and develop Maintenance Requirements. Specialized or minor repairs when needed.	Artwork is grimy, in need of cleaning and sealant.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.
61	Wilshire / Vermont	Bob Zoell <i>No Title</i> Ceramic tile murals	2004	Conduct detailed annual artwork inspection and develop condition report. Document conditions and develop Maintenance Requirements. Specialized or minor repairs when needed.	Broken tile and graffiti etchings at granite artwork. Artwork is grimy, in need of repair and cleaning.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Red Line art assets.

Metro Green Line					
Station	Artist / Artwork Title / Components	Year Installed	Annual Maintenance Requirements	Condition Status	FY21 Proposed Action Plan
62	Redondo Beach Carl Cheng <i>The Museum of Space Information</i> Painted steel satellite towers and satellite; painted steel TV Monitor cabinets and monitors; painted steel, glass and mixed media windscreens, concrete, glass, stone and stainless steel benches; concrete and resin planet formations; glass and mixed media illuminated diorama; glass, stone and steel inlays; porcelain enamel mural	1995	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Structural elements appear in poor condition, damaged, artwork satellite feed not working. Currently with Metro Engineering for review. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Green Line art assets.
63	Douglas Renee Petropoulos <i>Untitled</i> Painted steel medallions; painted steel and galvanized steel tower, painted steel fencing; painted steel and concrete stools and benches; bronze inlays; bronze and painted steel telescopes; anodized aluminum panels; stamped text in concrete; porcelain enamels murals; terrazzo and bronze mural paving; ceramic tiles; glass with laminated imagery	1995	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Sculpted artwork medallions appear damaged. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Green Line art assets.
64	El Segundo Daniel J. Martinez <i>For Your Intellectual Entertainment</i> Painted steel and galvanized steel structures, painted steel fencing; painted steel and concrete stools and benches; bronze inlays; bronze and painted steel telescopes; clocks; stamped text in concrete; porcelain enamels murals; terrazzo and bronze mural paving	1995	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Artwork electronic element not working. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Green Line art assets.
65	Mariposa Charles Dickson <i>Divine Order: the Manifestation of the Soaring Spirit</i> Painted, pigmented concrete benches; ceramic tiles; glass and laminated imagery; terrazzo and bronze mural paving; ceramic tile cutouts; concrete relief mural; ceramic tile columns	1995	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Broken glass windscreen removed from the platform in the Winter of 2016 .Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Green Line art assets.
66	Aviation / LAX Richard Turner <i>Untitled</i> Glass and laminated imagery; terrazzo and bronze mural paving; pigmented concrete and steel chairs, tables and benches; painted steel panels	1995	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Artwork sculptures require paint touch up, minor cracking at terrazzo artwork paving. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Green Line art assets.
67	Hawthorne / Lennox Mineko Grimmer <i>Companions</i> Patinated bronze sculptures; black granite benches	1995	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Etchings at granite benches. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Green Line art assets.

Metro Green Line					
Station	Artist / Artwork Title / Components	Year Installed	Annual Maintenance Requirements	Condition Status	FY21 Proposed Action Plan
68	Crenshaw Buzz Spector <i>Crenshaw Stories</i> Ceramic tile murals; concrete benches; terra cotta tile paving; concrete impressions	1995	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Minor damage at artwork paving. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Green Line art assets.
69	Vermont / Athens Kim Yasuda <i>Real Green</i> Ceramic tile murals; terrazzo and bronze mural paving; painted steel and wood benches; wood, painted aluminum and steel sculptural buckets	1995	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Minor cracking at artwork terrazzo paving. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Green Line art assets.
70	Harbor Fwy Steve Appleton <i>Locus: City Imprints</i> Granite benches; pigmented concrete and steel benches; glass fiber reinforced concrete sculptures; pigmented concrete mural paving	1995	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Artwork sculpture vandalized. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Green Line art assets.
71	Avalon Willie Middlebrook <i>Portrait of My People #619</i> Porcelain enamel murals	1995	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Artwork sculpture vandalized. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Green Line art assets.
72	Avalon John Outterbridge <i>Pyramid</i> Concrete and ceramic tile sculptures; pigmented concrete mural paving	1995	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Artwork sculpture vandalized. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Green Line art assets.
73	Avalon Stanley C. Wilson <i>Bridge of Culture</i> Pigmented and ceramic tile benches; ceramic tile mural paving, painted steel panels	1995	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Artwork vandalized. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Green Line art assets.
74	Long Beach Blvd Sally Weber <i>Celestial Chance</i> Terra cotta tile mural paving; pigmented concrete and steel paving, painted steel sculptures; perforated steel and acrylic sculpture	1995	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Minor damage at artwork paving. Painted elements have faded. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Green Line art assets.
75	Lakewood Blvd Erika Rothenberg <i>Wall of (Un)Fame</i> Pigmented concrete panels; pigmented concrete benches; pigmented concrete receptacles; painted steel grills; bronze plaque	1995	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Artworks vandalized. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Green Line art assets.

Metro Green Line					
Station	Artist / Artwork Title / Components	Year Installed	Annual Maintenance Requirements	Condition Status	FY21 Proposed Action Plan
76	Norwalk Meg Cranston <i>Suka: Place of Bees</i> Ceramic tile; bronze tile; painted stainless steel sculptures; laminated imagery; painted steel and fiberglass sculptures	1995	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Minor damage at artwork paving. Painted elements have faded. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Green Line art assets.

Metro Gold Line					
Station	Artist / Artwork Title / Components	Year Installed	Annual Maintenance Requirements	Condition Status	FY23 Proposed Action Plan
77	Chinatown Chusien Chang <i>The Wheels of Change</i> Painted aluminum benches; etched granite, glass and stainless steel compass; bronze bell; etched granite tile pavers	2003	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Benches are etched (vandalized), require painting. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.
78	Lincoln / Cypress Cheri Gualke <i>Water Street: River of Dreams</i> Patinated copper, lexan and stainless steel panels; patinated bronze sculpture; stone boulders and seeded glass arroyo; concrete impressions	2003	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Artwork is etched (vandalized), require patina and wax. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.
79	Heritage Square Roberto L. Delgado <i>El Quetzalcoatl de Xochicalco and La Gente del Pueblo</i> Ceramic tile paving; carved volcanic stone sculpture with rebar attachments	2003	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Minor damage at artwork paving. Painted elements have faded. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.
80	Southwest Museum Teddy Sandoval <i>Highland Park Gateway</i> Glass fiber reinforced concrete and ceramic tile benches; glass fiber reinforced concrete, aluminum and glass mosaic sculptures; painted steel chairs; glass seeded arroyo paving	2003	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Minor damage at artwork paving. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.
81	Highland Park Jud Fine <i>Stone Tree Inverted Post (Bound Water Light)</i> Pigmented illuminated acrylic domes; concrete benches; pigmented glass fiber reinforced concrete and bronze sculpture	2003	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Artwork is etched (vandalized), require patina and wax. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.
82	South Pasadena Michael Stutz <i>Astride-Aside</i> Patinated bronze, painted steel sculpture; stone pedestals	2003	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Artwork is etched (vandalized), require patina and wax. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.

Metro Gold Line					
Station	Artist / Artwork Title / Components	Year Installed	Annual Maintenance Requirements	Condition Status	FY23 Proposed Action Plan
83	Fillmore Michael C. McMillen <i>Geologica 42</i> Patinated bronze sculptures	2003	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Artwork is etched (vandalized), require patina and wax. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.
84	Del Mar Ries Niemi <i>Kinetic Energy</i> Stainless steel fencing	2003	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Minor damage at artwork fencing. Painted elements have faded. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.
85	Memorial Park John Valadez <i>The First Artist in Southern California: A Short Story</i> Painted steel sculpture	2003	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Artwork is fading. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.
86	Lake Pat Ward Williams <i>Everyday People</i> Laminated imagery within glass panels	2003	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Artwork panel damaged and removed. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.
87	Allen Michael Amescua <i>Rider's Dream</i> Stainless steel sculpture; glazed terra cotta paving; painted steel and stainless steel panels	2003	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Artwork is fading. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.
88	Sierra Madre Villa Tony Gleaton <i>Untitled</i> Porcelain enamel panels	2003	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Artwork is fading. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.
89	Sierra Madre Villa Beth Thielen <i>Images of Commonality / Nature and Movement</i> Concrete reliefs; glass mosaic and concrete mural paving; painted steel, acrylic and electrical light box	2003	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Artwork is etched (vandalized), require paint and renovation. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.
90	Union Station Roy Nicholson <i>Solar Shift: San Bernardino and Santa Monica</i> Glass mosaic murals, painted walls	2006	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.

Metro Gold Line					
Station	Artist / Artwork Title / Components	Year Installed	Annual Maintenance Requirements	Condition Status	FY23 Proposed Action Plan
91	Little Tokyo / Arts District Hirokazu Kosaka <i>Buffer Zone</i> Granite benches	2009	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Etching at artwork granite (vandalism). Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.
92	Pico / Aliso Rob Nielson <i>About Place About Face</i> Cast iron sculptures	2009	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Artwork is rusting. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.
93	Mariachi Plaza Alejandro de la Loza <i>El Nino Perdido</i> Cast bronze sculptures; granite panels	2009	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Artwork is etched (vandalized), requires minor repairs and waxing. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.
94	Soto Nobuho Nagasawa <i>Landings</i> Aluminum panels of imagery and text; Glass curtain wall; Stainless steel, acrylic and LED sculpture	2009	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Artwork is grimy and lighting is out. In need of cleaning and sealant. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.
95	Indiana Paul Botello <i>Syncretic Manifestations</i> Stainless steel panels	2009	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.
96	Maravilla Jose Lopez <i>Maravilla Hearts of Tokens</i> Stainless steel sculptures; aluminum panels	2009	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.
97	East LA Civic Center Clement Hanami <i>Through the Looking Glass or Traveling at the Speed of Light (Rail)</i> Painted steel sculpture; pigmented concrete paving	2009	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.
98	Atlantic Adobe LA <i>Blissful Interiors</i> Painted steel sculpture; GFRC pigmented benches; ceramic tile paving	2009	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.

Metro Gold Line					
Station	Artist / Artwork Title / Components	Year Installed	Annual Maintenance Requirements	Condition Status	FY23 Proposed Action Plan
99	Arcadia Michael Davis <i>Arcadian Zephyr</i> Perforated stainless steel panels, painted steel and kinetic bronze weathervane, etched granite bench backs, glass canopy. Lithocrete paving at adjacent parking garage.	2016	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.
100	Monrovia Cha-Rie Tang <i>River of Time</i> Hard carved ceramic tiles at platform paving and columns. Hand carved ceramic tiles at adjacent parking garage.	2016	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.
101	Duarte / City of Hope Andrea Myklebust and Stanton Gray Sears <i>Spirit of the San Gabriel River</i> Sculptural painted steel and stone columns, bronze pavers at platform.	2016	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.
102	Inwindale Robin Brailsford <i>Pioneros De La Rivera De San Gabriel</i> Painted steel panels and lithocrete pavers at platform. Lithocrete pavers at adjacent parking garage.	2016	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.
103	Azusa Downtown Jose Antonio Aguirre <i>A Passage Through Memory</i> Glass fiber reinforced concrete entrance portals with painted steel and glass mosaic. Glass mosaic at columns.	2016	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.
104	APU/Citrus College Lynn Goodpasture <i>Azusa Horticultural Paradise</i> Mosaic glass murals at benches, glass canopy. Etched concrete at adjacent parking garage.	2016	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Perform detailed annual artwork inspection and documentation, develop a condition and corrective action report, and manage implementation of specialized cleaning, repairs and conservation. Will require new FTE to manage Gold Line art assets.

Metro Orange Line					
Station	Artist / Artwork Title / Components	Year Installed	Annual Maintenance Requirements	Condition Status	Action Plan
105	Alignment Jud Fine <i>Seven Spots and a Path</i> Alignments landscaping	2005	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
106	North Hollywood Caryl Davis <i>Dramatic Local</i> Porcelain enamel steel panel; terrazzo mural paving	2005	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Abatement film at artwork panel requires replacement, minor cracking at terrazzo artwork paving. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.

Metro Orange Line					
Station	Artist / Artwork Title / Components	Year Installed	Annual Maintenance Requirements	Condition Status	Action Plan
107	Laurel Canyon Phung Huynh <i>Lucky California</i> Porcelain enamel steel panels; terrazzo mural paving	2005	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Minor etching at artwork panels (vandalism), minor cracking at terrazzo artwork paving. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
108	Valley College Laura London <i>Former Location/Contemporary Portrait</i> Porcelain enamel steel panels; terrazzo mural paving	2005	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Minor etching at artwork panels (vandalism), minor cracking at terrazzo artwork paving. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
109	Valley College, Van Nuys, Sepulveda, Balboa, Reseda Renee Petropoulos <i>14 Miles</i> Terrazzo benches	2005	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Minor cracking / chipping at terrazzo artwork. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
110	Woodman Daniel Marlos <i>Journey to California</i> Porcelain enamel steel panels; terrazzo mural paving	2005	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Minor etching at artwork panels (vandalism), minor cracking at terrazzo artwork paving. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
111	Van Nuys Roxene Rockwell <i>VAN NUYS, The New Town</i> Porcelain enamel steel panels; terrazzo mural paving	2005	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Minor etching at artwork panels (vandalism), minor cracking at terrazzo artwork paving. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
112	Sepulveda Michele Martinez <i>Todos Vuelven</i> Porcelain enamel steel panels; terrazzo mural paving	2005	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Minor etching at artwork panels (vandalism), minor cracking at terrazzo artwork paving. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
113	Woodley John Roloff <i>Valley Scan</i> Porcelain enamel steel panels; terrazzo mural paving	2005	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Minor etching at artwork panels (vandalism), minor cracking at terrazzo artwork paving. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.



Metro Orange Line						
Station	Artist / Artwork Title / Components	Year Installed	Annual Maintenance Requirements	Condition Status	Action Plan	
114	Balboa	John O'Brien <i>OverSite</i> Porcelain enamel steel panels; terrazzo mural paving	2005	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Minor etching at artwork panels (vandalism), minor cracking at terrazzo artwork paving. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
115	Reseda	Jody Zellen <i>Now and Then</i> Porcelain enamel steel panels; terrazzo mural paving	2005	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Minor etching at artwork panels (vandalism), minor cracking at terrazzo artwork paving. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
116	Tampa	Sandow Birk <i>Tarzan and Tarzana</i> Porcelain enamel steel panels; terrazzo mural paving	2005	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Minor etching at artwork panels (vandalism), minor cracking at terrazzo artwork paving. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
117	Pierce College	Pat Warner <i>What We See</i> Porcelain enamel steel panels; terrazzo mural paving	2005	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Minor etching at artwork panels (vandalism), minor cracking at terrazzo artwork paving. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
118	De Soto	John Divola <i>Images From Dogs Chasing My Car in the Desert</i> Porcelain enamel steel panels; terrazzo mural paving	2005	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Minor etching at artwork panels (vandalism), minor cracking at terrazzo artwork paving. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
119	Canoga	Roy Dowell <i>Constructed Histories</i> Porcelain enamel steel panels; terrazzo mural paving	2005	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Minor etching at artwork panels (vandalism). Artwork inspection and condition report required. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
120	Canoga	Ken Gonzales-Day <i>Western Imaginary</i> Porcelain enamel steel panels; stone and glass mosaic mural paving	2012	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Minor etching at artwork panels (vandalism). Artwork inspection and condition report required. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.

Metro Orange Line					
Station	Artist / Artwork Title / Components	Year Installed	Annual Maintenance Requirements	Condition Status	Action Plan
121	Sherman Way Margaret Lazzari <i>Ovensmouth / Canoga Park</i> Porcelain enamel steel panels; stone and glass mosaic mural paving	2012	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Minor etching at artwork panels (vandalism). Artwork inspection and condition report required. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
122	Roscoe Sam Erenberg <i>Liquid Light: Flowing Into The Future</i> Porcelain enamel steel panels; stone and glass mosaic mural paving	2012	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Minor etching at artwork panels (vandalism). Artwork inspection and condition report required. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
123	Nordhoff Anne Marie Karlsen <i>Strati</i> Porcelain enamel steel panels; stone and glass mosaic mural paving	2012	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Minor etching at artwork panels (vandalism). Artwork inspection and condition report required. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
124	Chatsworth Lisa Adams <i>A Glimpse of Stoney Point</i> Porcelain enamel steel panels; stone and glass mosaic mural paving	2012	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Minor etching at artwork panels (vandalism). Artwork inspection and condition report required. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.

Metro Expo Line					
Station	Artist / Artwork Title / Components	Year Installed	Annual Maintenance Requirements	Condition Status	Action Plan
125	LATTC / Ortho Institute Christofer C. Dierdorff <i>The Intimacy of Place</i> Porcelain enamel steel panels	2012	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Failed paint system on Expo 1 station structures may compromise artwork. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
126	Jefferson / USC Samuel Rodriguez <i>Urban Dualities</i> Hand-glazed, hand-cut ceramic mosaic pane	2012	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Failed paint system on Expo 1 station structures may compromise artwork. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.

Metro Expo Line					
Station	Artist / Artwork Title / Components	Year Installed	Annual Maintenance Requirements	Condition Status	Action Plan
127	Expo Park / USC Robbert Flick <i>On Saturdays</i> Photographic porcelain tile panels	2012	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Failed paint system on Expo 1 station structures may compromise artwork. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
128	Expo / Vermont Jessica Polzin McCoy <i>Neighborhood Portrait: Reconstructed</i> Hand-glazed, hand-cut ceramic mosaic panels	2012	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Failed paint system on Expo 1 station structures may compromise artwork. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
129	Expo / Western Ronald J. Llanos <i>Ephemeral Views: A Visual Essay</i> Hand-glazed, hand-cut ceramic mosaic panels	2012	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Failed paint system on Expo 1 station structures may compromise artwork. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
130	Expo / Crenshaw Willie Robert Middlebrook Jr. <i>Wanderers</i> Glass mosaic panels	2012	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Failed paint system on Expo 1 station structures may compromise artwork. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
131	Farmdale Michael Massenburg <i>All in a Day</i> Glass mosaic panels	2012	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
132	Expo / La Brea Jose Lozano <i>LA Metro Loteria</i> Commercial tile, ink sublimation panels	2012	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Failed paint system on Expo 1 station structures may compromise artwork. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
133	La Cienega / Jefferson Daniel Gonzales <i>Engraved in Memory</i> Hand-glazed, hand-cut ceramic porcelain mosaic panels	2012	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Failed paint system on Expo 1 station structures may compromise artwork. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.

Metro Expo Line					
Station	Artist / Artwork Title / Components	Year Installed	Annual Maintenance Requirements	Condition Status	Action Plan
134	Culver City Tom LaDuke <i>Unknowable Origins</i> Glass mosaic panels	2012	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Failed paint system on Expo 1 station structures may compromise artwork. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
135	Palms Shizu Saldamando <i>Artist Educators</i> Glass mosaic and hand-cut ceramic mosaic panels	2016	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Failed paint system on Expo 1 station structures may compromise artwork. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
136	Westwood / Rancho park Abel Alejandro <i>Panoramas</i> Photographic porcelain tile panels	2016	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
137	Expo / Sepulveda Susan Logoreci <i>Right Above the Right-of-Way</i> Hand-glazed, hand-cut ceramic mosaic panels	2016	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
138	Expo / Bundy Nzuji de Magalhães <i>And Here I Will Stay</i> Glass mosaic and hand-cut ceramic mosaic panels	2016	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
139	26th St / Bergamot Constance Mallinson <i>Local Color</i> Photographic porcelain tile panels	2016	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
140	17th St / SMC Carmen Argote <i>What you wore, What you wear</i> Photographic porcelain tile panels	2016	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
141	Downtown Santa Monica Judithe Hernández <i>L.A. Sonata</i> Glass mosaic panels	2016	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.

Metro Silver Line					
Station	Artist / Artwork Title / Components	Year Installed	Annual Maintenance Requirements	Condition Status	Action Plan
142	Cal State LA Merge Conceptual Design <i>Overcoat - CSULA</i> Painted steel; painted concrete; Ceramic tile	2009	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
143	LAC + USC Medical Center Merge Conceptual Design <i>Untitled</i> Painted steel; painted concrete; Ceramic tile	2009	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
144	El Monte Transit Center Donald Lipski <i>Time Piece</i> Stainless steel sculpture; painted steel and electronic sculpture	2012	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Corrosion present. Artwork inspection and condition report required. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
145	Harbor Gateway Transit Center Alison Saar <i>Paraje</i> Stainless steel sculpture	2012	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Corrosion present. Artwork inspection and condition report required. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
146	El Monte Transit Center Eloy Torrez <i>The Steps We Take</i> Powder coated sublimation murals	2014	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
147	El Monte Transit Center Martin Durazo <i>Vamos Juntos/Juntas</i> Powder coated sublimation murals	2014	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
148	El Monte Transit Center Phung Huynh <i>In The Meadow</i> Powder coated sublimation murals	2014	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
149	El Monte Transit Center Vincent Ramos <i>El Monte Legion Stadium</i> Powder coated sublimation murals	2014	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.

Metro Facilities					
Station	Artist / Artwork Title / Components	Year Installed	Annual Maintenance Requirements	Condition Status	Action Plan
150	Union Station: Gateway Transit Center James Doolin <i>Los Angeles Circa 1870, 1910, 1950 and after 2000</i> Painted murals	1995	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
151	Union Station: Gateway Transit Center Margaret Nielsen <i>LA Dialogs</i> Painted mural	1995	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
152	Union Station: Gateway Transit Center Patrick Nagatani <i>Epoch</i> Painted mural	1995	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
153	Union Station: Gateway Transit Center May Sun and Richard Wyatt <i>City of Dreams, River of History</i> Pigmented concrete, glass, steel and ceramic tile fountain; stone, patinated bronze paving; ceramic tile	1995	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Water issues at soffit. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
154	Union Station: Gateway Transit Center Richard Wyatt <i>City of Dreams, River of History</i> Painted mural	1995	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Artwork is dirty. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
155	Union Station: Gateway Transit Center Bill Bell <i>A Train</i> LED light sticks, audio and video components	1995	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
156	Union Station: Gateway Transit Center East Los Streetscapers <i>La Sombra del Arroyo</i> Painted bronze sculpture; ceramic tile; stone tile	1995	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
157	Union Station: Gateway Transit Center Kim Yausda & Noel Korten <i>ReUnion</i> Stainless steel, glass and copper bus shelters	1995	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Broken glass panel. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
158	Union Station: Gateway Transit Center Michael Amescua <i>Guardians of the Track</i> Painted steel panels; anodized aluminum panels	1995	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Artwork is in need of corrosion mitigation, cleaning and paint. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.

Metro Facilities					
Station	Artist / Artwork Title / Components	Year Installed	Annual Maintenance Requirements	Condition Status	Action Plan
159	Union Station: Gateway Transit Center Peter Shire <i>Paseo Cesar Chavez</i> Fountain, ceramic tile benches	1995	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
160	Union Station: Gateway Transit Center Elsa Flores <i>Paseo Cesar Chavez</i> Fountain, ceramic tile benches	1995	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
161	Union Station: Gateway Transit Center Roberto Gil de Montes <i>Paseo Cesar Chavez</i> Fountain, ceramic tile benches	1995	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
162	Union Station Passageway Rotating Artist <i>Rotating Photo Installations</i> Anodized aluminum, plexiglass, duratrans film	2001	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Artwork requires new polycarbonate sheeting. Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
163	Metro Customer Service Center (former) Jim Isermann <i>Untitled (Tilfords)</i> Powder coated aluminum panels	2006	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Artwork removed as part of Purple Line Extension. Artwork to be relocated /re-purposed.	Will request dedicated staff and resources in future years.
164	Division 9 Facility Raul de la Sota <i>Forward to the Past</i> Painted honey comb aluminum mural	2007	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
165	Division 9 Facility Mark Lere <i>The Metro Machine</i> Terrazzo mural paving	2007	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
166	Division 24 Facility Christine Beniston <i>Field of Poppies</i> Powder coated steel laced into fencing	2015	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
167	Division 13 Facility Christine Ulke <i>El Aliso de Los Angeles</i> Illuminated polycarbonate panels with graphic PVB film layers, LEDs	2015	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.
168	Union Station: Gateway Transit Center and Pedestrian Drop Off Area (POV) Michael Amescua <i>Guardians of the Rail</i> Painted steel panels; Painted aluminum panels	2016	Inspections will result in the development of a Maintenance Plan identifying environmental and deferred maintenance impacts and Action Plan. Resources are needed to conduct detailed artwork inspection and condition report.	Will require resources to perform artwork inspections and condition report. In addition, possible professional conservator report identifying recommendations, as well as implementation of specialized cleaning, repairs and conservation.	Will request dedicated staff and resources in future years.

Examples

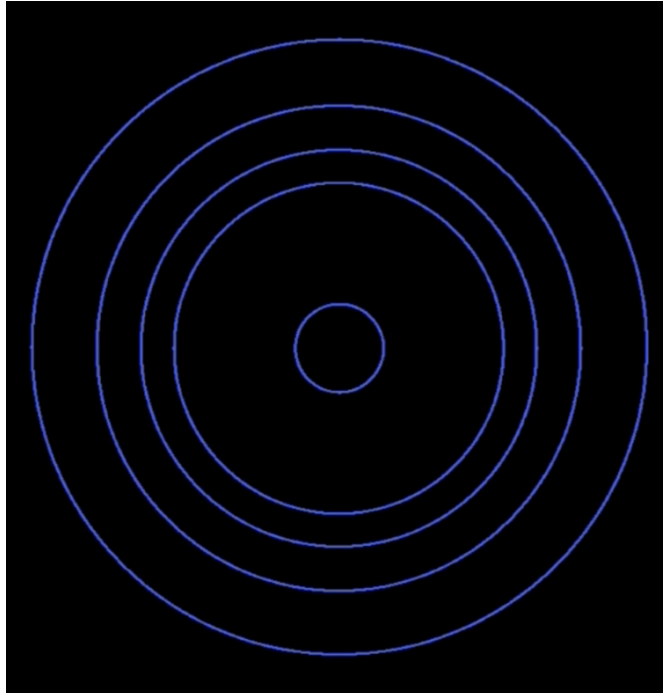


Metro Blue Line – Artworks impacted as part of Blue Line Refurbishment Project, require renovation



Metro Blue Line – Damaged artwork mosaic tile requires specialized repairs

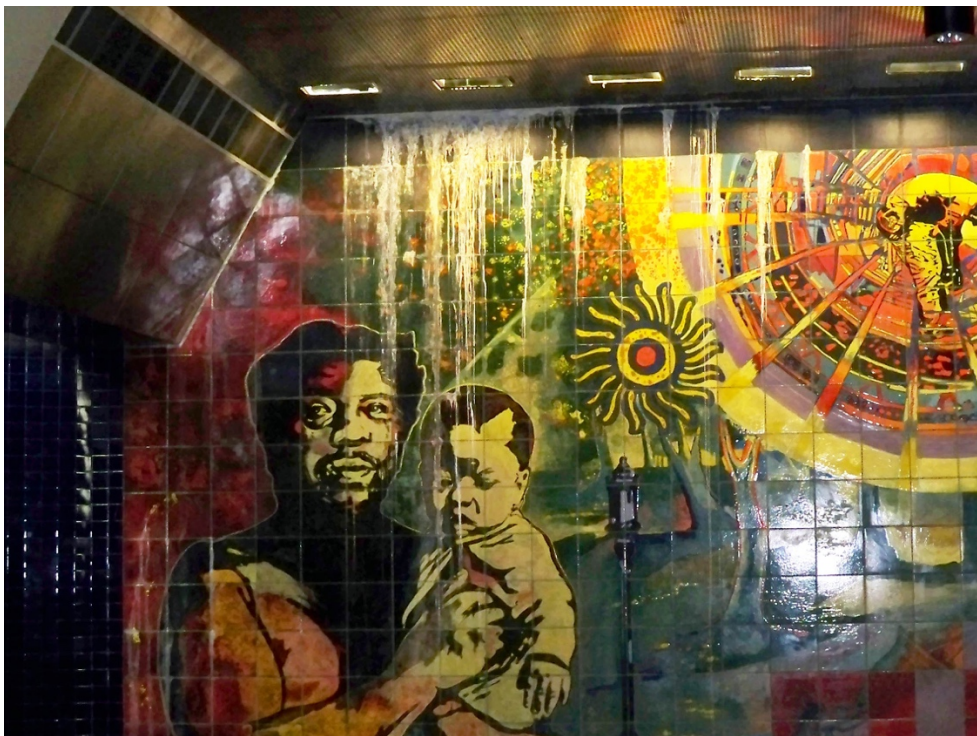




Original artwork (1 of 82)



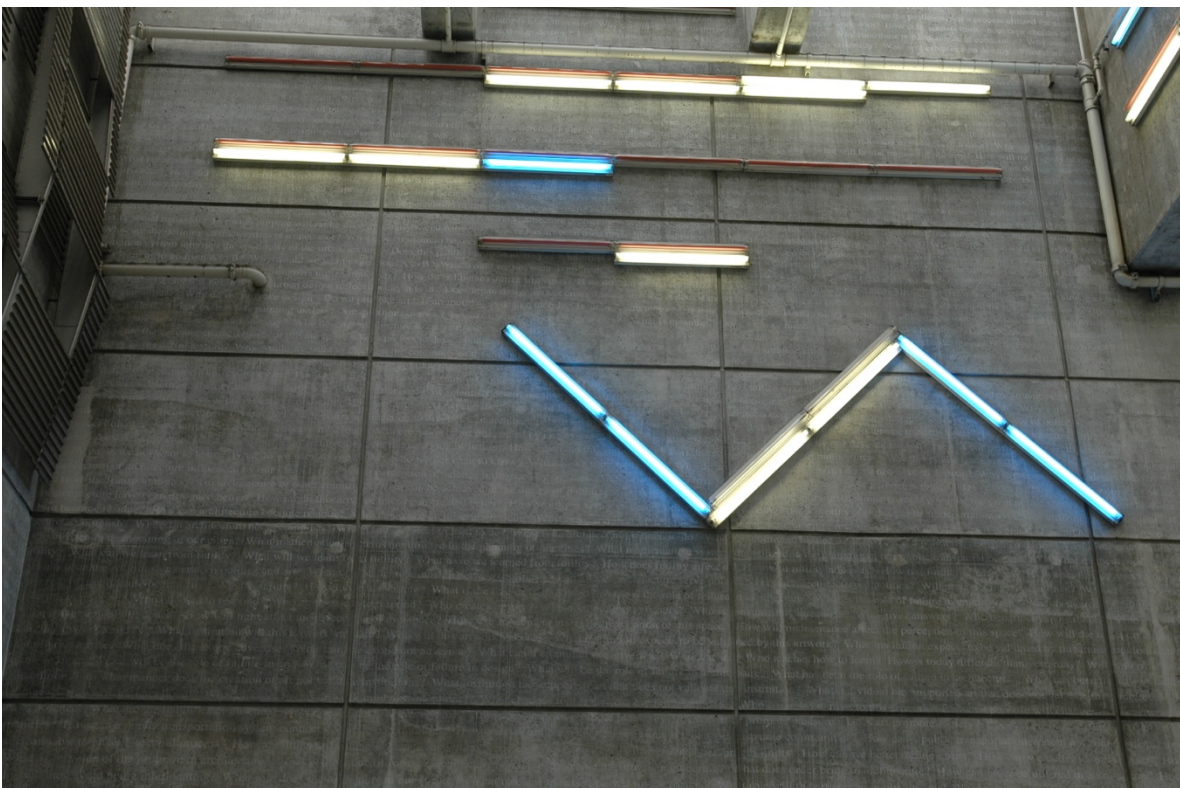
Metro Blue/Expo Tunnel – Outdated electrical artworks not functioning as intended



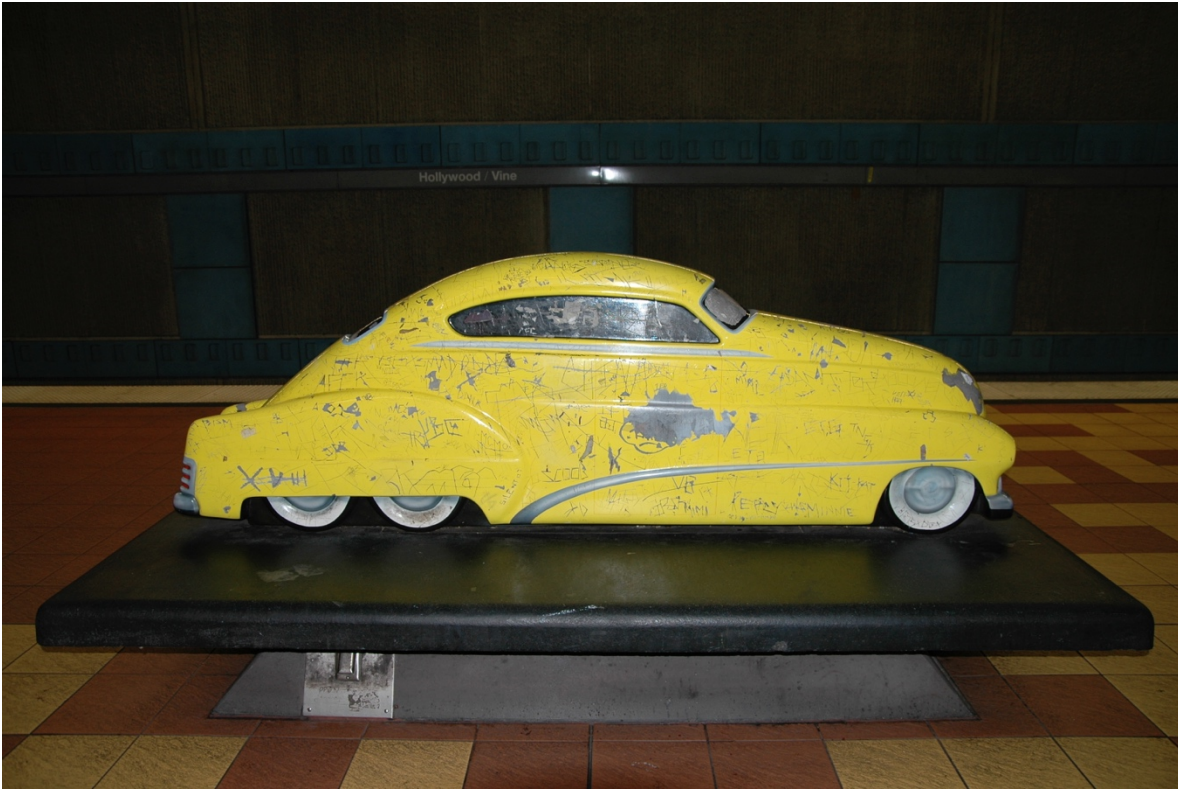
Metro Red Line – Artworks require specialized repair



**Metro Red Line – Damaged artwork tile requires specialized repairs**



**Metro Red Line – Outdated electrical artworks require renovation**



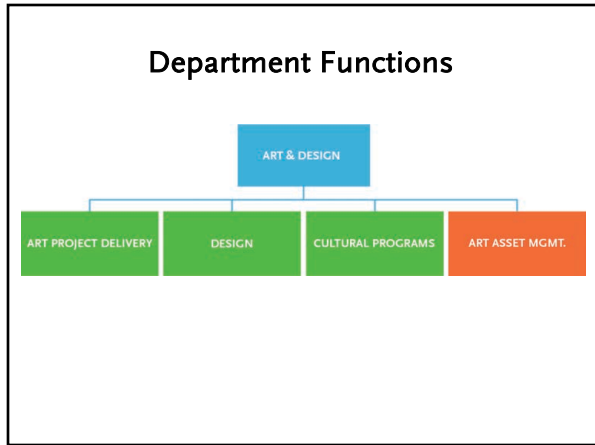
**Metro Red Line – Artworks require renovation and relocation**



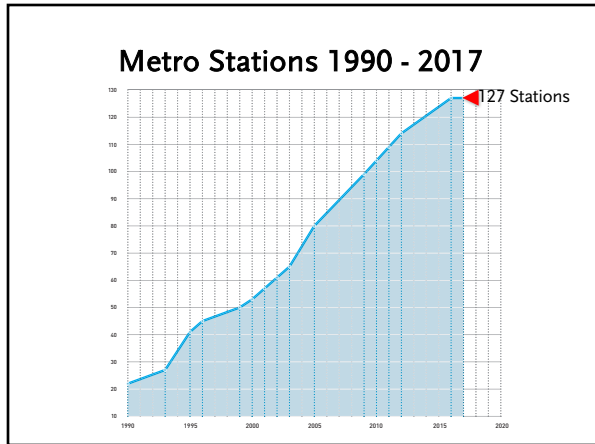
**Metro Red Line – Artworks require specialized cleaning**



- ### Board Motion
- A. Provide Annual Report
  - B. Dedicate resources
  - C. Include in future refurbishment projects
  - D. Budget as new artworks completed
  - E. Create maintenance plan for each artwork
  - F. Develop action plan



- ### Metro Public Art Assets
- Growing (and aging) system
  - 168 permanent artworks
  - Many artworks are now 25+ years old
  - Wear and tear impacts
  - Facility modification impacts
  - Deferred care becoming increasingly visible
  - Unique assets require specialized approach



“Los Angeles may have some of the most innovative integration of art and architecture in the country.”

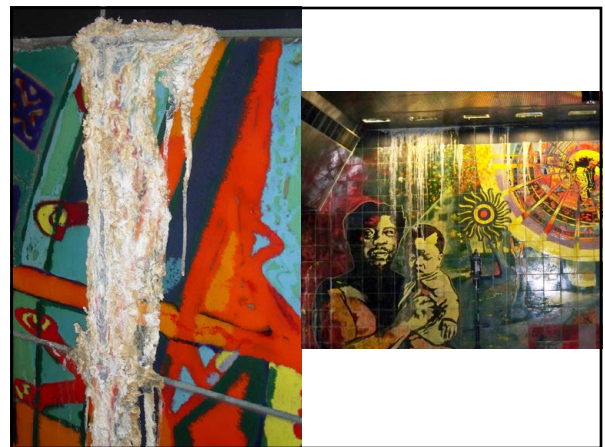
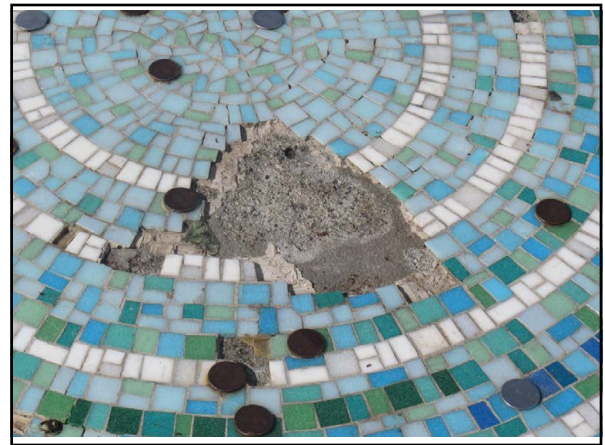
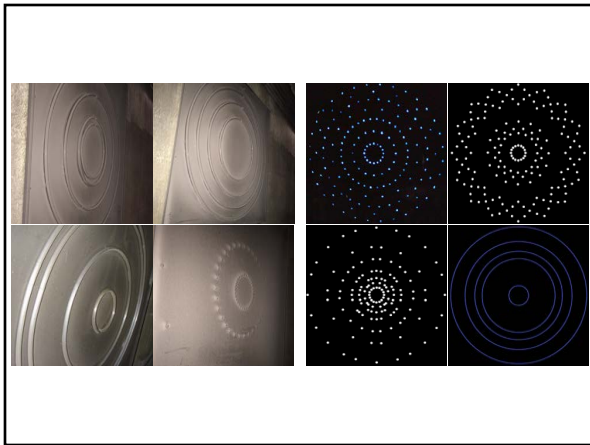
Los Angeles Times

“Fascinating artwork...artwork worth seeing... Beautiful and breathtaking in its ambition and Execution.”

Washington Post

“...one of the most imaginative public art programs in the country.”

New York Times





**Operations Start Up Currently Includes**

Operators & Mechanics	Yes
Traction Power	Yes
Facilities Maintenance	Yes
Custodial Services	Yes
Landscape Maintenance	Yes
Graffiti Abatement	Yes
Art Asset Management	No

**Phased Approach to Art Asset Mgmt.**

Existing Lines:

- Line by line as each reaches 20 to 25 years

New Lines:

- Apply lessons learned
- Include art asset management in start up plans

FY18	FY19	FY21	FY23
Blue (28)	Blue (28)	Blue (28)	Blue (28)
	Red (33)	Red (33)	Red (33)
		Green (15)	Green(15)
		Crenshaw(14)	Crenshaw(14)
			Gold (28)





## Board Report

File #: 2017-0130, File Type: Motion / Motion Response

Agenda Number: 34

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### SYSTEM SAFETY, SECURITY AND OPERATIONS COMMITTEE MAY 18, 2017

**SUBJECT: DOWNTOWN LOS ANGELES ARTS DISTRICT CONNECTIVITY**

**ACTION: RECEIVE AND FILE**

#### **RECOMMENDATION**

RECEIVE AND FILE this report on **Metro's long-term needs at Division 20 in the Downtown Los Angeles Arts District** and the accommodations necessary for a potential future Arts District passenger rail station.

#### **ISSUE**

At the January 26, 2017 Board meeting, a Motion was passed (Attachment A) directing staff to initiate a holistic assessment of Metro's long-term needs at Division 20. This facility is the maintenance and storage yard for the rail cars serving the Metro Red and Purple Line subway system. The yard is located just south of Union Station in the Arts District adjacent to the Los Angeles River. The Motion stated:

- "MTA's first priority for Division 20 must be to support the Purple Line Extension. However, Metro should do everything possible to extend rail service to the Arts District" and;
- "Work with the City of Los Angeles to develop creative strategies to establish innovative funding mechanisms dedicated to off-set the costs of new stations in the Arts District."

This report provides an overview of projects under development in Division 20 that are required to support the growing Red and Purple Line subway system. In addition, other non-subway transportation projects are identified that are also expanding services into this area. The report provides a framework for a possible Metro rail station in or adjacent to the yard and includes a preliminary discussion of the accommodations necessary to provide for such a station.

#### **DISCUSSION**

Below is a summary and status update on the various interrelated Metro operations investments planned or considered along the Division 20 Corridor, as further depicted in Attachments B and C.



### **Metro Projects Being Developed Within Division 20**

- **Red/Purple Line Portal & Turnback Facility** - In order to accommodate increased service levels on the Red and Purple Lines, Metro is moving forward with two critical facility improvements: a new turnback facility in the Division 20 yard and a widening of the heavy rail tunnel portal south of the US-101 Freeway. The turnback facility is required to support four-minute service on the Purple Line Extension (PLE) per the project's Full Funding Grant Agreement which effectively requires the ability to support two-minute headways east of the Wilshire Vermont Station where the Red and Purple Lines share tracks. Currently, trains reverse directions at Union Station where the minimum headway that can be achieved is approximately eight minutes on each branch of the Red and Purple Lines (or approximately four minutes along the shared alignment). The priority in designing the turnback facility must be to support Red and Purple Line operations; however, the facility, which is currently proposed to be located between 1st and 3rd Streets, will be designed so as not to preclude potentially serving as a future revenue station serving the Arts District.

Additionally, Metro is proposing to widen the Red and Purple Line tunnel portal and make improvements to tracks southeast of Union Station in order to substantially increase the speed, frequency, and reliability of operations between Union Station and the future turnback facility. The portal widening is also necessary should Metro operate revenue service south of Union Station in the future. Environmental clearance of the Red and Purple Line Core Capacity Improvements Project, as well as procurement of a consultant to prepare final design documents, was approved by the Board on March 23, 2017. The project will be funded, in part, by a \$69.2 million Cap & Trade Grant that Metro received in 2016.

- **MOW/NRV Building** - A new Maintenance of Way/Non-Revenue Vehicle (MOW/NRV) facility is being constructed on the northeast corner of 6th Street and Santa Fe Avenue on property acquired by Metro. The approximately 81,000 square foot facility will replace the space and consolidate the functions currently housed in three buildings within the Division 20 yard just east of the One Santa Fe development, making way for the proposed turnback facility. A design/build contract was awarded in summer 2015 and design is 85% complete. A Design Advisory Working Group consisting of Arts District stakeholders, Metro and the City of Los Angeles, has been providing input throughout design development and a site-specific artwork is being integrated into the project. Building construction is scheduled for completion in 2018.
- **Rail Car Storage & Test Track** - One of the greatest challenges to accommodating the PLE is the capacity to store Metro's growing heavy rail fleet. The Division 20 rail yard has a current storage capacity of 180 heavy rail cars. The current Rail Fleet Management Plan anticipates operating and storing:
  - 162 cars by FY23 to support PLE Section 1;
  - 182 cars by FY26 to support PLE Section 2; and
  - 282 cars by FY35 to support PLE Section 3.

With the passage of Measure M, Sections 2 and 3 are slated to be delivered as early as FY24, accelerating the need for expanded storage capacity in the yard. Additionally, as service increases on the Red and Purple Lines and the heavy rail fleet expands, it will become

increasingly difficult to undertake rail car testing operations on the mainline, which is the practice today. Instead, Metro will require a controlled environment - ideally a straight run of at least 2,800 feet in the vicinity of Division 20 - in order to test cars when accepting new and returning rail cars to service following maintenance. The ability to do so will become increasingly problematic under current circumstances. Given the limited Metro-owned right-of-way in and around Division 20 and the spatial demands associated with additional rail car storage and test track facility, additional property acquisition will be necessary.

- **Emergency Security Operations Center** - Metro is developing a new, approximately 80,000 square foot, three-story Emergency Security Operations Center (ESOC) at 410 Center Street on property already owned by Metro. The new facility will serve as the Emergency Operation Center (EOC) and central location for Metro security operations, radio dispatch and emergency coordination. Metro is also planning to integrate Rail and Bus Operations Centers into the facility in the future. This will be a secured facility for authorized personnel only. Site planning and initial design have been completed and final design, which will include development of site-specific artwork, will be completed in 2017. The construction of the ESOC is anticipated to begin in 2018 with completion by 2021. The ESOC is funded, in part, by a \$112.7 million Prop 1B 2010-2011 California Transit Security Grant.

### **Other Planned Transportation Projects Adjacent to Division 20**

In addition to the Metro operational projects directly impacting the Division 20 Corridor discussed above, there are other transportation planning efforts that could directly impact future access to the Arts District. These efforts must also be coordinated as upcoming implementation and investments decisions are considered in this area.

- **Link Union Station/High Speed Rail Coordination** - Link Union Station (Link US), formerly known as the "Los Angeles Union Station Run Through Tracks" or the "Southern California Regional Interconnector Project (SCRIP)", is designed to meet the long-term regional rail needs at Union Station by converting the station from a "single-ended" terminal to a "through" terminal. By extending regional rail tracks south over the US-101 Freeway (and then continuing east before connecting with the existing mainline tracks along the west bank of the Los Angeles River), the project will increase capacity at Union Station, reduce dwell times and allow for greater flexibility for Metrolink and Amtrak operations. Link US will also include a new expanded passenger concourse with retail and passenger amenities. In addition, as part of the planning for the Link US project, Metro continues to work closely with the California High Speed Rail Authority (CHSRA) on options that accommodate High Speed Rail at Union Station. Preliminary design, engineering and environmental clearance is underway for Link US, with a new Draft Environmental Impact Statement/ Environmental Impact Report (EIS/EIR) expected to be released in summer 2017. A Final EIS/EIR will be prepared, with an expected Record of Decision/EIR Certification in late 2017.
- **West Santa Ana Branch Transit Corridor Project** - The West Santa Ana Transit Corridor Project is a proposed light rail transit line that would run from Artesia to Union Station in Downtown Los Angeles, in part, on former Pacific Electric Railway right-of-way now owned by

Metro. In September 2016, the Metro Board awarded a contract to complete the environmental clearance for the project and a contract to conduct community outreach, efforts which are now underway. The next phase of study will more closely examine new stations identified during the Technical Refinement Study (not previously identified in the SCAG Alternatives Analysis Study), including in the Arts District, Metro Blue Line transfer stations, and potential stations between Arts District and Pacific/Vernon Station, depending on the northern alignment option. Although the alternatives under consideration do not directly impact the already constrained Division 20 property, potential alignments under study may present additional opportunities to increase rail transit access in the Arts District.

- **Active Transportation Improvements** - The Connect US Action Plan is a community-driven public improvement plan that prioritizes pedestrian and bicyclist connections to and from Union Station, the 1st St/Central Regional Connector Station, and the surrounding historic and culturally significant communities, including projects within the Arts District. Metro received a federal TIGER grant in 2015 that includes streetscape improvements and a bike facility from Union Station to the Arts District along Center Street and Santa Fe Avenue adjacent to a number of existing and planned Metro facilities. In March 2017, the City of Los Angeles received an Active Transportation Program Cycle 3 grant application which would fund design and construction of additional Arts District improvements identified in the Connect US Action Plan.

Additionally, Metro presented the Los Angeles River Bike Path Gap Closure Feasibility Study to the Board in September 2016 which assessed the design, engineering, safety, cost, and other feasibility aspects of closing the eight-mile gap in the Los Angeles River Bike Path between Elysian Valley and the City of Vernon (including along the Arts District/Division 20 Corridor) to create a continuous 31-mile path. Staff is currently initiating work with a consultant team for the project approval/environmental documentation phase which is expected to commence in mid-2017. The project will begin an alternatives assessment to arrive at a preferred alternative in 2020. The project is funded under Measure M and is expected to be implemented in 5-7 years.

The City of Los Angeles is currently developing the 12-acre Sixth Street Park, Arts, River and Connectivity Improvements which will be located under and adjacent to the new Sixth Street Viaduct. The space will connect Boyle Heights, the Arts District and the Los Angeles River. The Sixth Street Viaduct is currently under construction and is scheduled to be completed in 2020. The proposed Sixth Street Station location is located immediately adjacent to this major park and active transportation improvement.

### **Challenges and Opportunities for Development of an Arts District Rail Station**

Similar to most rail maintenance facilities, Metro's Division 20 land holdings are not arrayed in a simple, rectangular, space-efficient configuration. The right-of-way has very restricted tails at both ends - specifically, the northern tail from the heavy rail portal south to 1st and 3rd Streets, and the southern tail from 4th Street to south of 6th Street. These segments are severely restricted by private property to the west, much of which has been recently developed, and by BNSF right-of-way and the Los Angeles River to the east. Furthermore, passenger rail service requires two dedicated tracks that are separated from the non-revenue storage tracks in the yard. This requires that any new rail

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passenger service would need to displace existing or planned storage, turnback and test tracks, further exacerbating the shortage of land for basic rail yard maintenance and storage functions. A summary of key passenger station issues include the following:

- **Number of Stations** - Planning studies to date have not identified an acceptable solution to operate stations at both 3rd Street and 6th Street. The preferred location for a 3rd Street Station is immediately adjacent to the One Santa Fe development and the SCI-ARC School of Architecture. The preferred location for a 6th Street Station is immediately south of the new 6th Street Bridge (currently under construction by the City of Los Angeles). Operating both of these stations would require branching the revenue tracks in two directions within the yard. Efficient rail service operation dictates a single, continuous set of rail tracks that would serve both a turnback facility and the future passenger station. This would not be possible with the two stations in the preferred locations for each that have been identified. Concepts for moving the 3rd Street Station to the river side of the yard so that it would be “in-line” with a second station at 6th Street have raised cost, safety and security concerns as they would require aerial skybridges to access a remote station location in the center of a high security storage yard.
- **Right-of-Way for a New Station** - Division 20 currently is not large enough to accommodate all of the planned growth in storage needs for the expansion of Metro Purple and Red Line service. There is a shortage of land which must be addressed to serve currently projected needs. A new rail station will put further demands to identify additional right-of-way beyond current operational needs. Current storage capacities in the yard must be expanded from the current fleet size of 180 heavy rail cars to as many as 282 cars by the time Section 3 of the Purple Line opens. Measure M calls for acceleration of the opening of Section 3 from 2035 to 2024. Furthermore, a new test track is required that will add to the above right-of-way needs. Dedicating portions of the existing yard for new passenger rail service will remove existing storage capacity as any new service cannot be co-mingled with storage tracks. Additional right-of-way would need to be identified that is immediately contiguous to the existing yard. As shown in Attachment B, development in recent years has removed much of the available land that was previously anticipated to be available for rail yard expansion.
- **Planning for a New Station** - To date, planning for potential new Red and Purple Line transit station in Division 20 has sought to “not preclude” the opportunity for stations at either 3rd Street or 6th Street, while allowing immediate rail yard needs to proceed which are required to meet conditions of the federal funding agreements and schedules for the Metro Purple Line Westside Section 1, 2 and 3 Extensions. The planning for possible future stations in the yard was initially focused on the 3rd Street area, in accordance with plans developed in the Westside Purple Line Extension EIS/EIR, which was completed in 2012. Those plans did not identify a station, but envisioned a possible future conversion of the planned turnback facility into a passenger station in the vicinity of 3rd/Street adjacent to the One Santa Fe and SCI-ARC projects. Since that time, growth in the Arts District has accelerated and many of the new projects are being developed south of 3rd Street in the areas between 4th Street and 7th Street. This has resulted in heightened interest in the development of a 6th Street Station, either in addition to or instead of a 3rd Street Station. As shown in Attachment D, the current design for the planned portal and turnback facility would provide for a possible future station at 3rd Street while not precluding a possible future station at 6th Street. The following presents the current status of planning for

these two stations:

- **3rd Street Station, Related Improvements** - The current design for the turnback facility non-revenue station platforms are being designed with sufficient width to accommodate conversion to passenger platforms. Access from the station platforms would need to be secured through the One Santa Fe project to access Santa Fe Avenue and 3rd Street.

The design of this turnback facility/station is not ideal for passenger service as the One Santa Fe project would limit the length of track that could be provided south of the station platforms which is necessary to allow for high speed operation of trains into and out of the station. However, the land for this station and turnback facility would be available upon completion of the new MOW/NRV facility at 6th/Santa Fe which would allow demolition of existing, older structures at 3rd Street which would free up room for the station and turnback facility. While the 3rd Street Station planning would allow for a relatively straightforward conversion to a passenger station, the plans to date have not identified sufficient right-of-way to provide the necessary rail car storage and test track needs.

- **6th Street Station, Related Improvements** - In order to provide for a future station at 6th Street, a new turnback facility would need to be constructed at the eastern edge of the Metro rail yard so that some trains could be turned back to Union Station and others could continue through to the 6th Street Station. New passenger service tracks would need to be constructed that would displace existing storage tracks over a distance of approximately one mile, extending from the subway portal at the northern end of the yard to the new station at 6th Street. In addition, the Metro-owned land at 6th Street is currently used by two existing tail tracks that would need to remain should a new station be constructed. The new station would require a minimum of two passenger-serving tracks in addition to the two tail tracks, resulting in a total of four tracks south of 6th Street plus a passenger platform. This platform would require vertical elevators, stairs and escalators as Red Line and Purple Line trains do not allow at-grade pedestrian crossings of their tracks. Finally, tail tracks would need to be constructed south of the new 6th Street Station to allow for end of line train queuing and turnback.

For the above reasons, a rail station at 6th Street would be more costly than a station at 3rd Street and would require a greater amount of additional right-of-way. It would, however, have the potential to provide higher speed operation than 3rd Street due to improved turnback facility design and it would provide excellent access to the growing Arts District and River Gateway improvements being implemented in the adjacent Arts District community.

- **Funding for a New Station** - Notably, neither the 2009 Long Range Financial Plan nor the Measure R or Measure M Countywide Ballot Measures for transit improvements, has identified any funding for a new rail station in the Division 20 Yard. As such, new sources of funding would need to be identified for stations in the Division 20 yard. As well, funding for the development and operating costs associated with expanded service of the Red and Purple lines have also not been included in the above financial documents. Among other elements, comprehensive cost estimates for any new service must assume operation with heavy rail trains; associated stations would therefore have to include vertical circulation to access the station including elevators, stairs, escalators and emergency access. Heavy rail stations must accommodate 450 foot long

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platforms and tail tracks beyond the platform to turnback trains, much longer than what is required for light rail stations. In short, cost estimates cannot be made for the station alone, and must be evaluated with the construct of a system improvement, and the priorities that would need to align with other investments slated for the area.

## **NEXT STEPS**

In order to fully identify and plan for all of Metro's long-term needs in and around Division 20, including accommodation of future Arts District station access, Metro is currently proceeding with the following planning efforts:

### 1. Prepare Integrated Space Plan (Summer/Fall 2017)

Metro has initiated work on additional plans to identify the physical size, alignment and configuration of a 6th Street Station that could be implemented in lieu of a 3rd Street Station. These plans will consider adjacent properties and real estate developments and transit oriented development opportunities that may be possible. Although a top priority of these physical designs is ensuring that Metro's operating commitments for the PLE are satisfied, such plans will also need to identify opportunities to enhance connectivity and access throughout the Arts District and to ensure that transportation facility improvements are designed in a manner that is responsive to the existing urban fabric and the neighboring community.

### 2. Identify Real Estate/Right-of-Way Needs (Fall 2017)

It is clear that all of the transportation infrastructure needs cannot be fully accommodated with the existing Metro-owned right-of-way and property, and that additional property will be needed for either revenue station concept. The integrated space plan described above will inform potential property acquisition needs.

### 3. Long Range Transportation Plan (2017-2018)

An Arts District Station will be included in the evaluation and planning process that is currently going forward to update Metro's Long Range Transportation Plan. No Arts District Station is currently included in this plan, and any new facilities need to be evaluated for possible incorporation by the Board into this plan. The current growth in the Arts District will be considered as a part of systemwide considerations of planning options to serve regional growth. Providing better transit linkages to the Arts District will be included in these assessments.

### 4. Funding and Implementation (Now and Beyond)

During the period when the additional rail service and station feasibility planning is underway and property acquisition needs are defined, we will confer with the City, property owners and stakeholders to identify creative strategies such as an Enhanced Infrastructure Finance District (EIFD) which could offset costs of a potential new Arts District Rail Station. Currently Metro is not authorized to establish such a district, however, the City of Los Angeles could implement such a district with the support of

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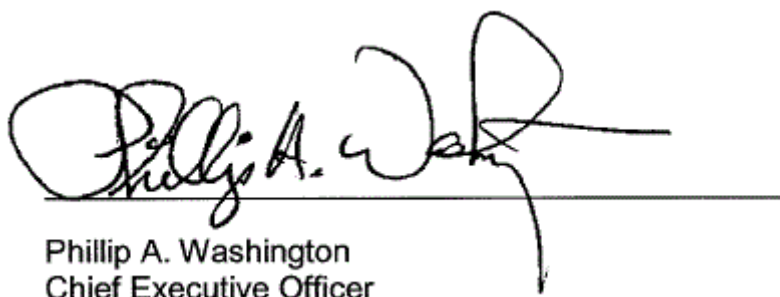
local property owners and new development projects. Also during this time, there are a number of capital and operating costs that would need to be vetted in addition to any cost estimates specific to a new station. That said, another opportunity to further study innovative funding mechanisms for station-related investment is through Metro's Transit Oriented Development Planning Grant Program which is slated to release a call for Round 5 applications in May 2017. In addition to funding transit-supportive regulatory plans, the Round 5 program will include a pilot program to provide funds to local jurisdictions to perform initial feasibility analyses for forming financing districts that can generate resources for public infrastructure including transportation improvements.

### **ATTACHMENTS**

- Attachment A - January 2017 Board Motion, Item 41
- Attachment B - Division 20 Current Transportation & Contiguous Projects
- Attachment C - Current Division 20 Metro Projects
- Attachment D - Station Development Scenarios

Prepared by: Nick Saponara, Senior Director, Countywide Planning & Development, (213) 922-4313  
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Reviewed by: Therese W. McMillan, Chief Planning Officer, (213) 922-7077



Phillip A. Washington  
Chief Executive Officer

# Metro



## Board Report

**File #:**2017-0020, **File Type:**Motion / Motion Response

Agenda Number:41

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### SYSTEM SAFETY, SECURITY AND OPERATIONS COMMITTEE JANUARY 19, 2017

#### Motion by:

**Directors Garcetti, Solis, Bonin and Dupont-Walker**

January 19, 2017

#### **Downtown Los Angeles Arts District Connectivity**

Metro Rail service is intended to serve high-density areas and major trip generators throughout Los Angeles County. Transit service to these types of locations, such as the Wilshire Corridor, the Historic Core, North Hollywood, Santa Monica, Pasadena, Long Beach, and other thriving locations is important to meet the mobility needs of Los Angeles County.

There are several outstanding priorities in and around MTA's Division 20 rail maintenance facility in the Arts District. MTA must improve Division 20 to service the Purple Line Extension project. Additionally, there is an opportunity to extend rail service to the Arts District.

Combined, the Purple Line Extension Section 1 and Section 2 projects include over \$3.6 billion in federal funding and financing. These federal funds are predicated on specific service standards, namely, train service every four minutes.

The federal funding requirements compel MTA to improve the subway turn-back capabilities by constructing a facility at the Division 20 maintenance facility. These improvements must be completed to meet federal service requirements, maintain federal funding agreements, and to start service on the Purple Line Extension. Failure to do so could put over \$3.6 billion in federal funding at risk.

In addition, with the passage of Measure M, MTA's current plans for Division 20 must be revised to accommodate the acceleration of the Purple Line Extension Section 3 to 2024. This will require an expansion of subway vehicle storage, maintenance, and testing infrastructure.

At the same time, MTA has since 2010 studied extending the Red and Purple Lines from Union Station to the Arts District, with possible stations and 1st Street, 3rd Street, and/or 6th Street.

An Arts District Extension is a great opportunity to support the continued development of a transit-oriented community with a rapidly expanding population and a strong desire for transit service. The Arts District has become a widely popular arts, culture, and shopping destination with rapid



**File #:**2017-0020, **File Type:**Motion / Motion Response

Agenda Number:41

residential growth. There are over twenty development projects in the Arts District under construction, entitled or in the entitlement process, including 670 Mesquit, 6AM, Row DTLA, 520 Mateo Street, the Ford Motor Factory Building, 950 E. 3rd Street, At Mateo, and others. Additionally, the Arts District is the location of several major infrastructure projects that will improve the public realm, such as the 6th Street Viaduct Replacement project and MTA's LA River Waterway & System Bikepath project.

MTA's first priority for Division 20 must be to support the Purple Line Extension. However, MTA should do everything possible to extend rail service to the Arts District.

**CONSIDER Motion by Garcetti, Solis, Bonin and Dupont-Walker** that the Board direct the CEO to:

- A. Immediately initiate a holistic assessment of MTA's long-term needs at Division 20 and accommodation of future Arts District station access, including:
1. Turn-back facility improvements,
  2. Rail car storage, maintenance facility, and vehicle test track needs required to start service on the Purple Line Extension Section 3 in 2024 per the Measure M ordinance,
  3. Rail service expansion to the Arts District with station options at 1st Street, 3rd Street, and/or 6th Street, with connections into the Arts District, to MTA's LA River Waterway & System Bikepath project, and to the 6th Street Viaduct Replacement project,
  4. Consideration of additional property required to meet all the above needs;

FURTHER MOVE that the MTA Board direct the CEO to:

- A. Design Division 20 so as to not preclude new stations and necessary track(s) in the future if funding is identified for an Arts District station(s) on the Red/Purple Line.
- B. Work with the City of Los Angeles to develop creative strategies to establish innovative funding mechanisms dedicated to off-set the costs of new stations in the Arts District.
- C. Provide an initial report back on all the above during the April 2017 Board cycle.

# ATTACHMENT B

## Division 20 Start-up Transportation Projects & Consignments/ Private Developments/ Properties

### Transportation Facilities & Equipment

- 1 New Turn-back Facility (Opens 2024) - New Turn-back Facility could be upgraded to support City Operations Center at one location.
- 2 New Turn-back Facility (Opens 2024) - New Turn-back Facility could be upgraded to support City Operations Center at one location.
- 3 New Turn-back Facility (Opens 2024) - New Turn-back Facility could be upgraded to support City Operations Center at one location.
- 4 New Turn-back Facility (Opens 2024) - New Turn-back Facility could be upgraded to support City Operations Center at one location.
- 5 New Turn-back Facility (Opens 2024) - New Turn-back Facility could be upgraded to support City Operations Center at one location.
- 6 New Turn-back Facility (Opens 2024) - New Turn-back Facility could be upgraded to support City Operations Center at one location.





### Phase 2

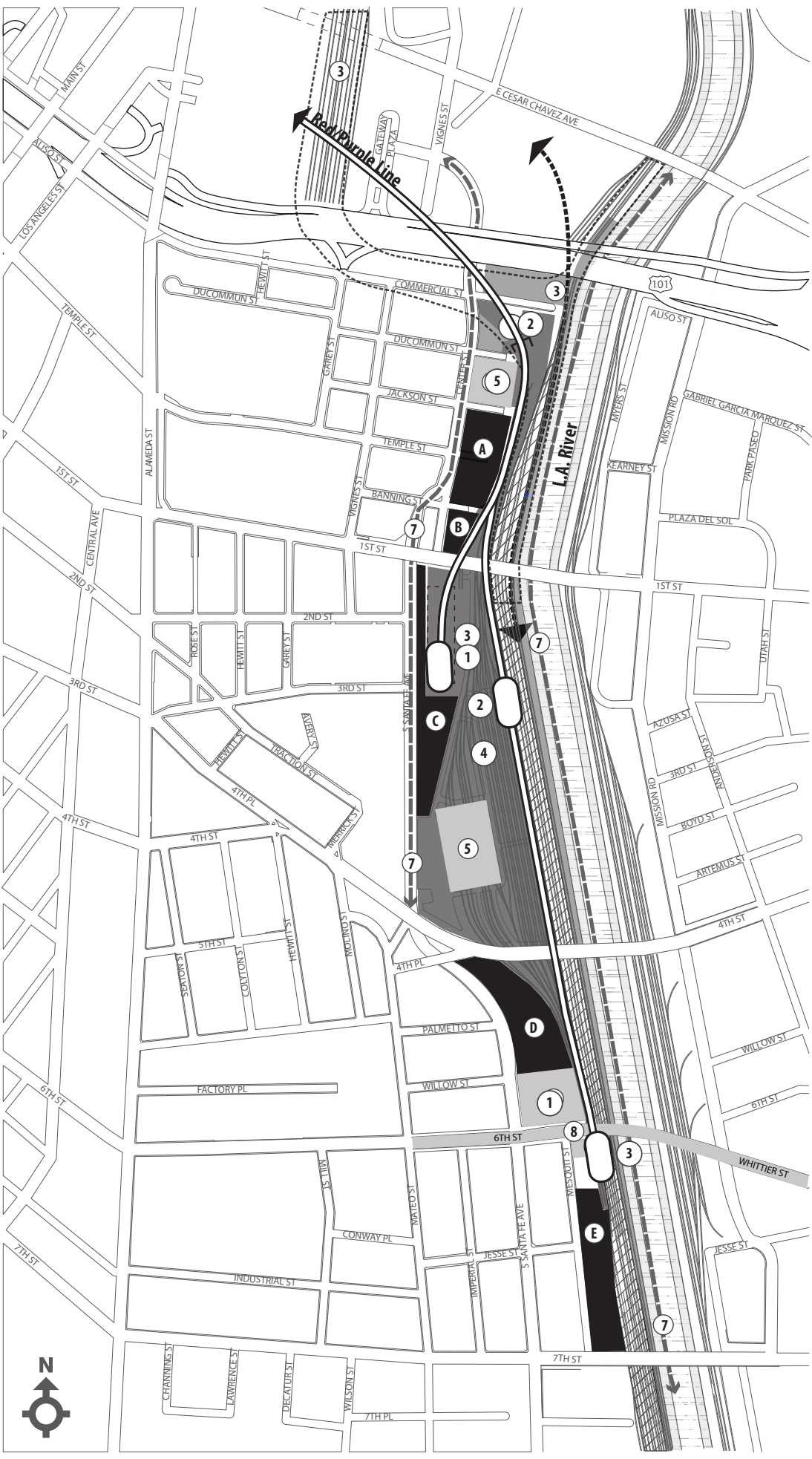
- 7 New Station could be constructed south of 6th Street Bridge Arts Park (Need by 2024) (Shown, Additional ROW Needed) - New Station could be constructed south of 6th Street Bridge Arts Park (Need by 2024) (Shown, Additional ROW Needed)
- 8 New Station could be constructed south of 6th Street Bridge Arts Park (Need by 2024) (Shown, Additional ROW Needed) - New Station could be constructed south of 6th Street Bridge Arts Park (Need by 2024) (Shown, Additional ROW Needed)
- 9 New Station could be constructed south of 6th Street Bridge Arts Park (Need by 2024) (Shown, Additional ROW Needed) - New Station could be constructed south of 6th Street Bridge Arts Park (Need by 2024) (Shown, Additional ROW Needed)

### Private Developments/ Properties

- A New Station could be constructed south of 6th Street Bridge Arts Park (Need by 2024) (Shown, Additional ROW Needed) - New Station could be constructed south of 6th Street Bridge Arts Park (Need by 2024) (Shown, Additional ROW Needed)
- B New Station could be constructed south of 6th Street Bridge Arts Park (Need by 2024) (Shown, Additional ROW Needed) - New Station could be constructed south of 6th Street Bridge Arts Park (Need by 2024) (Shown, Additional ROW Needed)
- C New Station could be constructed south of 6th Street Bridge Arts Park (Need by 2024) (Shown, Additional ROW Needed) - New Station could be constructed south of 6th Street Bridge Arts Park (Need by 2024) (Shown, Additional ROW Needed)
- D New Station could be constructed south of 6th Street Bridge Arts Park (Need by 2024) (Shown, Additional ROW Needed) - New Station could be constructed south of 6th Street Bridge Arts Park (Need by 2024) (Shown, Additional ROW Needed)
- E New Station could be constructed south of 6th Street Bridge Arts Park (Need by 2024) (Shown, Additional ROW Needed) - New Station could be constructed south of 6th Street Bridge Arts Park (Need by 2024) (Shown, Additional ROW Needed)

## LEGEND

-  Metro ROW
-  BNSF ROW
-  Transportation Facilities
-  Private Properties



# ATTACHMENT B

## Division 20 Start-up Transportation Projects & Consignments/ Private Developments/ Properties

### Timeline to Facilities & Equipment

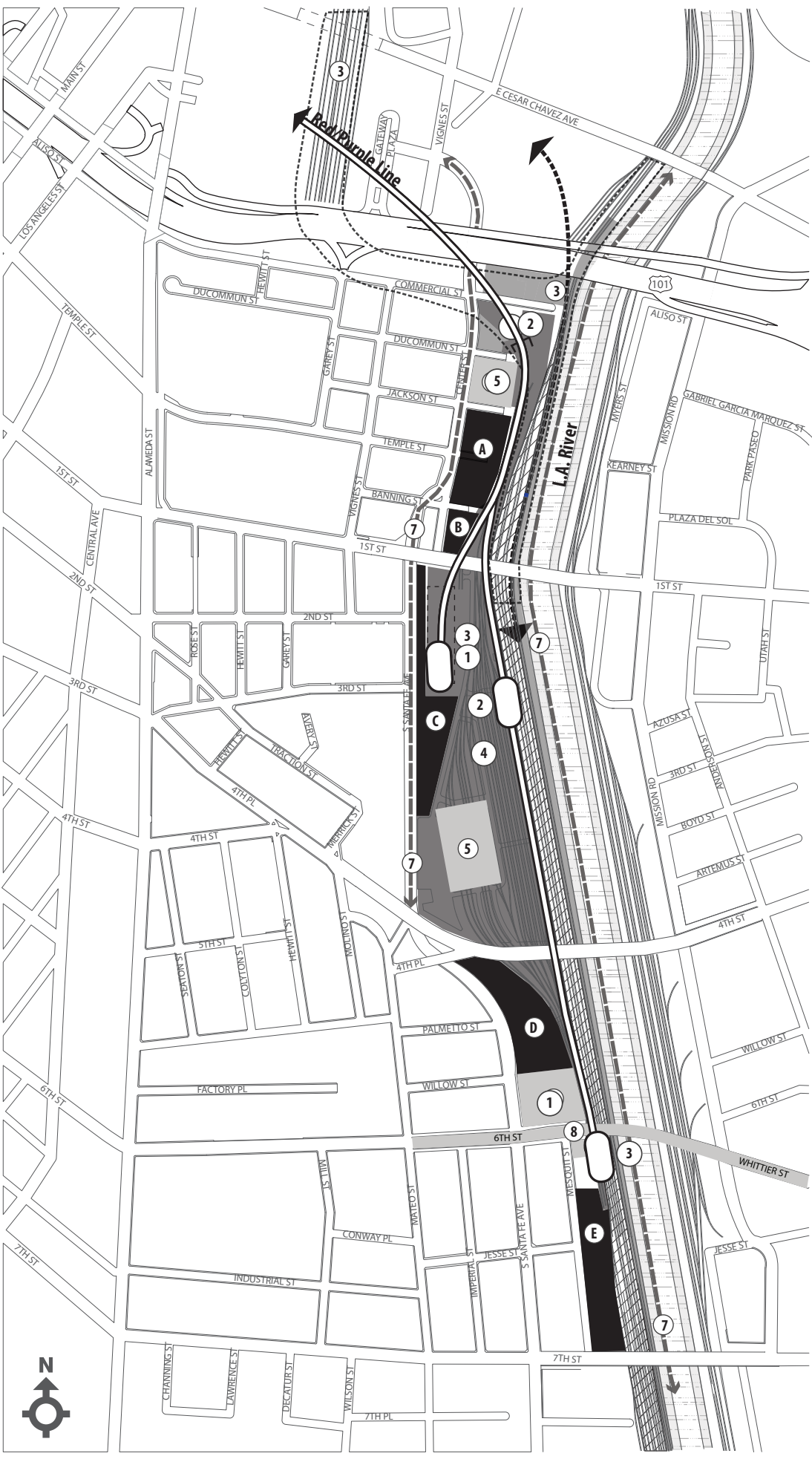
- 1 **Red/Purple Building (Open 2018)**: Maintenance Facility would be upgraded to support City Operations Center at one location.
- 2 **1955 Mgr Speed & Coordination**: Provide immediate opportunity to reduce Purple Line Extension requirements for increased fleet sized and more
- 3 **Division 20 Building Upgrade (Opens 2024)**: Clean room needed for additional ROW for car wash and 100 cars and transit to repair building of service
- 6 **Phase 2**: Necessary for Purple Line Extension and

- 7 **Articulation Corridor**
- 2 **New Turn-back Facility** could be constructed south of 6th Street
- 3 **Turn-back Facility at 3rd Street** could be constructed with structure (18 cars). (Shed down, Alignment TBD)
- 3 **New Station** could be constructed south of 6th Street Bridge Arts Park (Need by 2024) (Shown, Additional ROW Needed) for site for up to 100 additional rail cars.
- 4 **Metso owned land south of 6th Street** is not owned and cannot be used for station and tail track. (Estimated need for 4 track south of 6th Street to support station).

- Private Developments/ Properties for Metro**
- A **Private Property**
- B **Private Property**
- Non-Purple Line Special Improvements**
- 5 **Special Improvements**: New passenger tracks to 6th Street would displace existing freight tracks. Emergency security for ROW needed for freight tracks and rail storage (100 cars).
- D **Special Improvements**: radio dispatch and emergency coordination.
- E **Special Improvements**

### LEGEND

- Metro ROW
- BNSF ROW
- Transportation Facilities
- Private Properties



# ATTACHMENT B

## Division 20 Start-up Transportation Project & Consignments Private Developments/ Properties

### Transportation Facilities & Equipment





- 1 New Turn-back Facility (Opens 2018): Turn-back Facility could be upgraded to support 100 railcars.
- 2 New Turn-back Facility could be located at one location.
- 3 New 500 Mgr Storage and Coordination at 6th Street to support turn-back facility.
- 4 Purple Line Extension requirements for increased railcar fleet and Division 20 maintenance (Opens 2024) create a problem need for additional ROW for maintenance of 100 railcars to support maintenance of service necessary for Purple Line Extension and

- ### Option B
- 1 New Turn-back Facility could be located at 6th Street.
  - 2 New Turn-back Facility at 3rd Street would support 100 railcars instead of 40 railcars.
  - 3 New Storage and Coordination at 6th Street (Railcar Yard Needed) Storage site for up to 100 additional railcars. Site is not yet identified and cannot be determined at this time.

- ### Private Developments/ Properties
- A Not enough room to accommodate station and tail track. (Estimated need for 2 additional tracks (4 total) south of 6th Street to support station).
  - B Not enough room to accommodate station and tail track. (Estimated need for 2 additional tracks (4 total) south of 6th Street to support station).

- ### Non-Purple Line Special Improvements
- 5 The main project to 6th Street would display security features center-line and provide security ROW for test tracks and rail storage (100 railcars).
  - D New main project to 6th Street would display security features center-line and provide security ROW for test tracks and rail storage (100 railcars).
  - E New main project to 6th Street would display security features center-line and provide security ROW for test tracks and rail storage (100 railcars).

## LEGEND

-  Metro ROW
-  BNSF ROW
-  Transportation Facilities
-  Private Properties

0' 250' 500' 750' 1,000'

