

#### **Board Report**

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

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OPERATIONS, SAFETY, AND CUSTOMER EXPERIENCE COMMITTEE SEPTEMBER 19, 2019

SUBJECT: NEW BLUE/ EXPO SERVICE AND PROJECT MANAGEMENT

**ACTION: ORAL REPORT** 

#### **RECOMMENDATION**

RECEIVE oral report update on New Blue/Expo Service and Project Management.

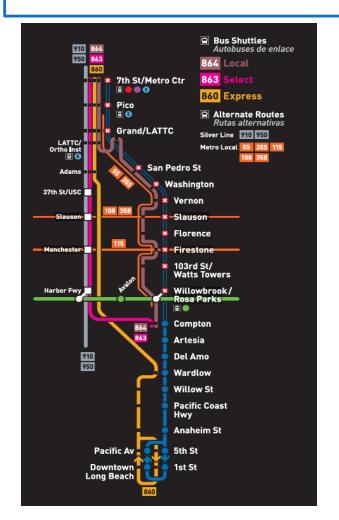
# New Blue/Expo Service & Project Update



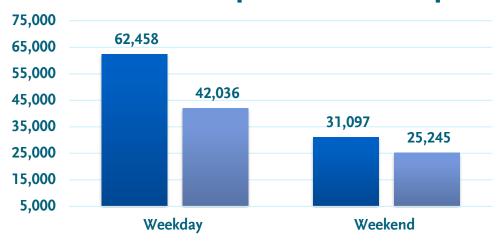
## New Blue Phase 2 Blue Line Bus Shuttle Service Ridership (June –July 2019)

#### **Frequency (Peak Period)**

- Line 860 Express: 6-12 minutes
- Line 863 Select: 12 minutes/M-F
- Line 864 Local: 6-12 minutes



### **New Blue Comparative Ridership**



- Blue Line (before New Blue)
- Current Blue Line (New Blue Lines 860, 863 & 864 + Rail)

Average Ridership	Weekday	Weekend
Blue Line (before New Blue)	62,458	31,097
New Blue (Bus Shuttles 860, 863 & 864 + Rail)	42,036	25,245

Majority of New Blue bus shuttle ridership is on Local Line 864

## New Blue Phase 2 Expo & Silver Line Comparative Ridership (July 2019)

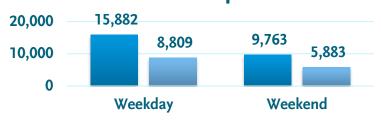
#### **Frequency During Peak Periods**

• Line 856 (Local): 6 -12 mins during peak, 12 mins during mid-day and weekends & 20 mins during late nights

#### **Status**

- Commenced: Saturday, June 22, 2019
- Re-Opened: Saturday, August 24, 2019
- Resumed full rail service on two Expo Line stations (7th St/Metro Center & Pico)

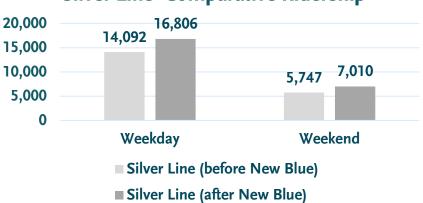
## **Expo Bus Shuttle Comparative Ridership**



- **■** Expo Line (before New Blue)
- **■** Expo Line (New Blue + Line 856)

Average Ridership	Weekday	Weekend
Expo Line 856 - June 2019	15,882	9,763
Expo Line 856 - July 2019	8,809	5,883

#### **Silver Line Comparative Ridership**



Average Ridership	Weekday	Weekend
Silver Line - July 2018	14,092	5,747
Silver Line - July 2019	16,806	7,010

## New Blue Phase 2 Program Management Update

## New Blue Improvements Project Phase 1 (Southern Segment)

- Status: Completed (Saturday, January 26, 2019 Friday, May 31, 2019)
- Project Highlights:
- Initiated Willowbrook/Rosa Parks platform and building renovation work on Day 1
- Completed brand new Compton interlocking
- Long Beach Loop signal upgrades, landscaping and fence work
- All new street running trackwork in Long Beach
- New fall protection on bridge segments
- New overhead contact system (OCS)
- Network upgrades for camera and digital map cases
- Station painting and tile renewal work
- New digital map cases and station signage

## Two Expo Line Station Closures (7th St/Metro Center and Pico)

- Status: Completed (Saturday, June 22, 2019 Friday, August 23, 2019)
- Project Highlights:
- New overhead contact rail (OCR) system (first ever at Metro)
- New #10 interlocking and track fasteners in Flower tunnel
- Rebuilt a portion of the Washington Junction and special trackwork
- Pico Station painting, tile renewal, digital map cases, and new signage
- All work completed around the clock within 60 day allocated closure window.







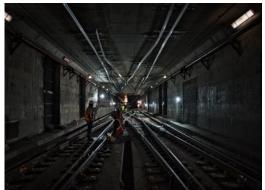
## New Blue Phase 2 Program Management Update

#### **New Blue Improvements Project Phase 2 (Northern Segment)**

- Status: Ongoing (Commenced Saturday, June 1, 2019 present)
- Project Highlights:
- Completed three new interlockings (95th Street, Firestone & Slauson)
- New OCS wires and hardware
- Station painting, new signage, tile renewal, and landscaping
- New digital map cases
- Renovated Willowbrook/Rosa Parks (W/RP) station platform and mezzanine connection to Green Line
- Major Blue Line construction work will be completed mid-September 2019
- W/RP platform construction will be substantially completed in early October 2019
- Systems integration tests commenced in September 2019 with Blue Line full re-opening anticipated for late October 2019







**Expo Junction Trackwork** 

W/RP

**#10 Crossover Track** 

## **Next Steps**

Continue to monitor New Blue bus shuttle and rail service customer feedback

Analyze the overall effectiveness of the Flower Street and Figueroa Bus Lanes and report back in October 2019

Continue to provide Operational support for the remainder of the New Blue Improvements Project

Continue efforts to complete Phase 2 of the New Blue Improvements Project by late October 2019

Continue Blue Line re-opening rail service planning & customer communication and community celebration events

Blue Line ROW Clean-Up Update: As of August 26-29, 2019, Metro partnered with Union Pacific, Bureau of Sanitation, and City of LA to perform a 4-day ROW joint clean up effort at specific Blue Line locations. Full details will be provided in October 2019



## Metro Gold Line Overhead Catenary System



## Gold Line Incident 1 – Monday, September 9, 2019

#### **LOCATION & TIME**

North of Allen Station on Track 2 05:52 am (Monday, 9/9/19)

#### **RESUMED NORMAL OPERATIONS**

3:30 pm (Thursday, 9/12/19)

#### **TOTAL INCIDENT TIME**

81 Hours 38 Minutes

#### **CAUSE**

- A dog bone insulator broke at a balance weight assembly, causing the OCS wire to sag far below normal operating height
- As a vehicle traveled on track 2, it collided with the OCS wire, damaging OCS assemblies and 1500 feet of messenger/contact wire

#### **REPAIR**

Safety tether installation

#### **OPERATING PLAN**

Rail: Single tracked with 15-20 minute headways during peak hours Bus Bridge between Sierra Madre and Lake:

- 12 buses during peak and 6 buses during non-peak
- 5 Vehicle Operations Staff



## Gold Line Incident 1 – OCS Damage









## Gold Line Incident 2 – Friday, September 13, 2019

#### **LOCATION & TIME**

North of Lake Station on Track 1 12:00 pm (Friday, 9/13/19)

#### **RESUMED NORTMAL OPERATIONS**

5:34 am (Monday, 9/16/19)

#### **TOTAL INCIDENT TIME**

65 Hours 34 Minutes

#### **CAUSE**

A dog bone insulator broke at a balance weight assembly, causing the OCS wire to sag below normal heights. As a vehicle traveled on track 1, it's pantograph snagged on the wire, damaging the OCS supports and assemblies.

#### **REPAIR**

Safety tether installation

#### **OPERATING PLAN**

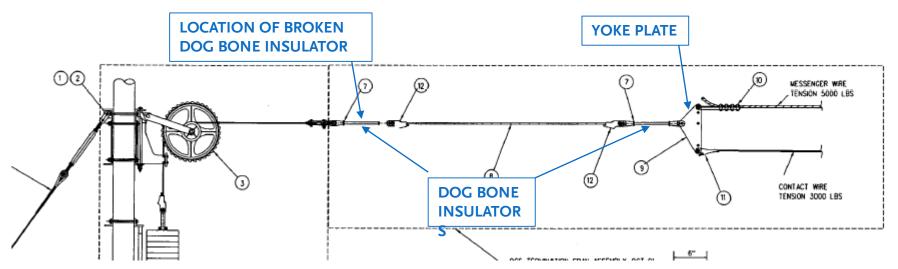
Rail: Single tracked with 15-20 minute headways during peak hours Bus Bridge between Sierra Madre and Lake:

- 14 buses during peak hours
- 6 buses during non-peak
- 5 Vehicle Operations Staff
- \*8 standby buses (Saturday & Monday am)

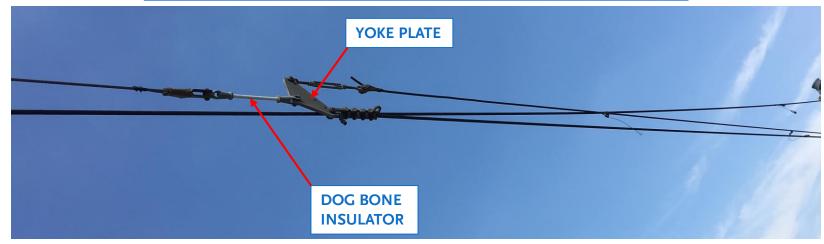


## **Incident Assembly Configuration – Gold Line Pasadena Section**

#### **DETAIL DRAWING OF ASSEMBLY**

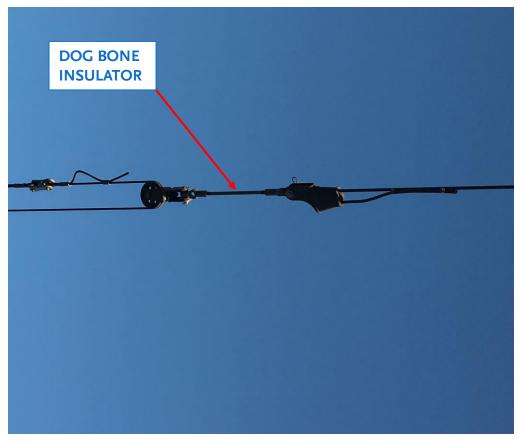


#### **DETAIL DRAWING OF BALANCE WEIGHT ASSEMBLY**



FIELD PHOTO OF BALANCE WEIGHT ASSEMBLY (NEAR YOKE PLATE)

## **Incident Assembly Configuration – Gold Line Pasadena Section**



FIELD PHOTO OF BALANCE WEIGHT ASSEMBLY
(NEAR BALANCE WEIGHTS)



## Service Restoration Efforts & Safety Tether Information

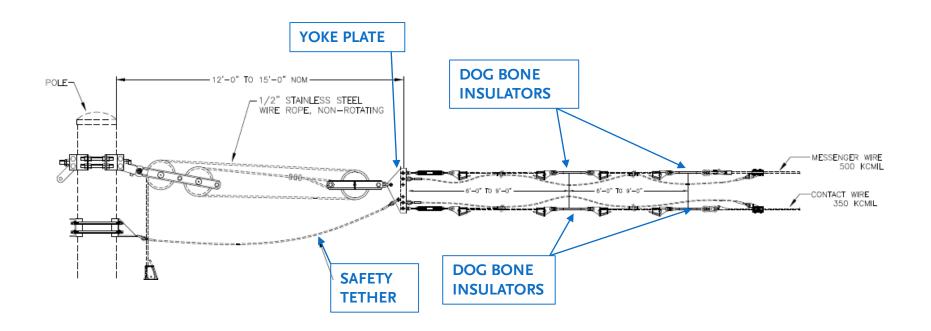
- ✓ Two crews with 10 Inspectors and a Supervisor worked to repair damage.
- ✓ OCS cantilever arms were reconnected to OCS poles
- ✓ Replacement of the dog bone fiberglass insulator rod
- ✓ Raising of the messenger and contact wire
- √ Reconnection of the wire assembly to the weight stack (safety tether)

Locations with Existing Safety Tethers: Blue Line, Green Line, Gold Line Eastside & Foothill Extensions, Expo Line, and Crenshaw Line



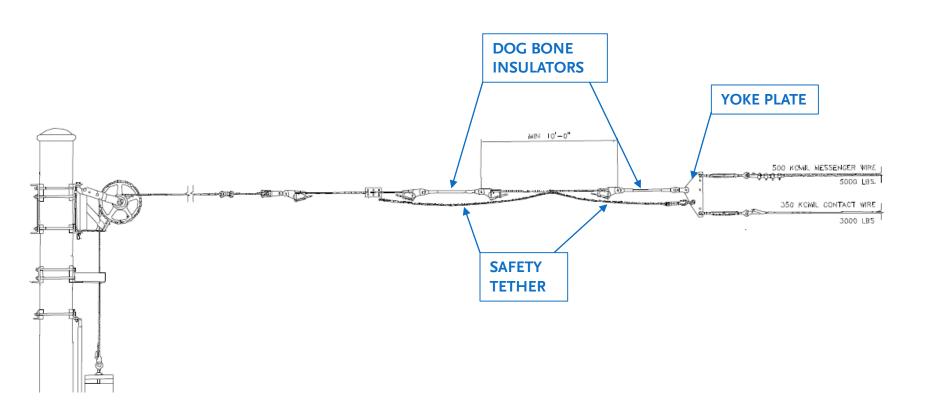


## **Existing Safety Tether Configurations – Expo Phase 2**





## **Existing Safety Tether Configurations – Gold Line Foothill Extension**

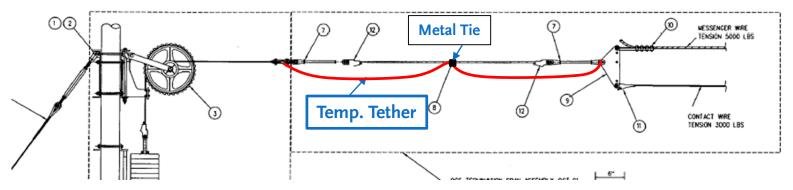




### **Next Steps**

#### **Short-Term**

- Install temporary safety tethers on all termination assemblies along the Gold Line Pasadena (Union Station to Sierra Madre Station)
  - Rate: 5 per day/3 days per week
  - Timeline: December 2019
- Impound all spare dog bone insulator parts
- Lab test defective dog bone insulator
- Purchase improved dog bones





### **Next Steps**

#### **Long-Term**

- Improve quality management of spare part inspection and verification process
- Install permanent safety tethers to retrofit the Gold Line Pasadena (Union Station to Sierra Madre Station)
- Timeline: Mid 2020

