

# Crenshaw/LAX Transit Project Schedule Presentation - September 24, 2020



# Budget / Schedule

## ◆ BUDGET

	<u>Current</u>	<u>Forecast</u>
TOTAL COST	\$2,148M	\$2,148M

## ◆ SCHEDULE

	<u>Current</u>	<u>Forecast</u>
REVENUE OPERATION	May/June 2021	May/June 2021

- Overall Project Progress is 96.1% complete.
- Contractor continues rework for trackwork and underground stations conduits.
- Contractor continues work at all stations and street work restoration/landscaping across Project.
- Concerned that contractor is not applying sufficient work force to complete their remaining work and their systems testing by December 2020.



Excavating/removing section of pavement for restoration on southbound Crenshaw Blvd and 54th St.

**Metro**



On target



Possible problem



Significant Impact

\*Contractor Substantial Completion: Winter 2020

# Train Testing



Train testing operations traveling over the La Brea Ave bridge.

Train testing operations clearing into the tunnel below Crenshaw Blvd.





# WSSC Contract

## Milestone Substantial Completion Revisions

- In March 2020, contractor reaffirmed commitment to achieve a December 2020 Substantial Completion Date.
- As of September 2020, Metro's assessment of current contractor progress indicates substantial completion forecast is later than December 2020, unless significant improvements are made to systems installation and testing progress.
- Completion by Metro of Phase II of Systems Integration Testing, Pre-Revenue Service and Certification is 5-6 months after contractor's Substantial Completion.

# WSCC Contract Liquidated Damages Provision

Milestones per Unilateral Non-Compensable Time Extension (September 2018)	Completion Date	\$'s per Day	Accrued to Date
No. 3 – Commence all Systems Integration Testing Phase 1	September 12, 2019	\$30,000	
No. 1 – Substantial Completion	December 11, 2019	\$36,800	
Total Accrued through August 31, 2020			\$11,274,400
The daily limit for accessing Liquidated Damages is \$36,800 and the Contract Limit is \$15,000,000			

- Contractor has missed both milestone completion dates.
- The time extension stipulated that the maximum daily limit for liquidated damages would be accessed if Revenue Service on May 23, 2020 was not achieved.
- Metro is accruing liquidated damages but has not yet accessed liquidated damages in the contractor's monthly payment application.
- Metro has reserved the right to assess and withhold the accrued liquidated damages in the future.



# Project Key Issues

- Volume of complex testing that remains to be done.
- Subcontractor coordination.
- Insufficient labor resources.
- Design resources.
- Ability to control schedule delays.
- Defective work.
- 1,600 local field acceptance tests, (LFAT) remain as of August 2020.

# Overall Systems Completion Status

Segment A ( 8+08.15 - 159+50)				
Systems	Traction Power	OCS /OCR	Train Control	Communication
Installation	100%	100%	100%	40%
LFAT Test	65%	100%	100%	5%
SIT-1 Test	10%	100%	5%	0%
Segment B1 (159+50 - 274+00)				
Systems	Traction Power	OCS /OCR	Train Control	Communication
Installation	100%	100%	95%	35%
LFAT Test	65%	100%	95%	0%
SIT-1 Test	0%	50%	5%	0%
Segment B2 (274+00 - 364+80)				
Systems	Traction Power	OCS /OCR	Train Control	Communication
Installation	100%	100%	95%	40%
LFAT Test	0%	91%	95%	0%
SIT-1 Test	0%	46%	0%	0%
Segment C (364+80 - 448+34)				
Systems	Traction Power	OCS /OCR	Train Control	Communication
Installation	100%	100%	75%	35%
LFAT Test	25%	75%	5%	0%
SIT-1 Test	0%	0%	0%	0%



**Metro**

# Project Schedule

- Contractor needs to:
  - Significantly increase shift resources
  - Develop a realistic plan to complete testing
    - Day to day schedule
    - Improve success/failure rate
  - Real time design support



# Conclusion

- Metro continues to monitor performance and schedule.