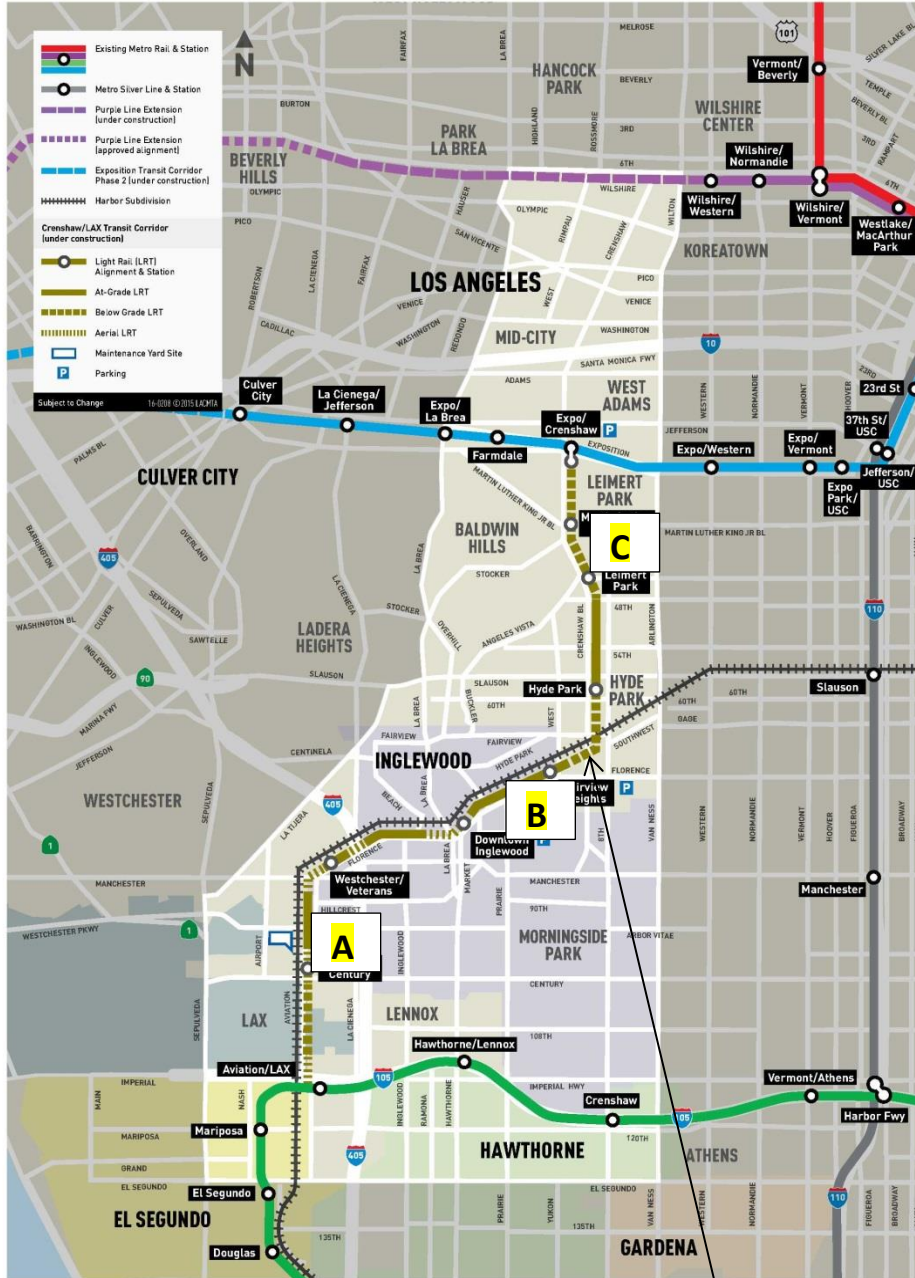


# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

Sept 11, 2020

## Crenshaw/LAX Transit Project



- 8.5 miles Light Rail
- 8 Stations
- \$2,058.0 Million (Board approved revised LOP)

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

Overview of trackwork progress issues for 08/14/2020 – 08/31/2020  
(Please note the attached Trackwork Progress Tracking Report)

**Trackwork continues with punchlist and rework activities. Both DF and Ballasted Trackwork that was previously reported as 100% complete may yet require rework. The contractor is in the process of analyzing, planning, and executing the repair and rework required throughout the guideway limits. Remaining incomplete trackwork activities progress will be reported upon the execution of planned rework.**

## **Current Issues:**

### General Notes:

Repair of plinth gap to invert continues at the Green Line Bridge, Century Bridge, I-405 Bridge, UG3, and UG4 per NCR-A-111;  
Preparation of the Guideway above Wall #202 has been completed with the removal of rails, ties, and ballast and exposed the AC cap;  
Replacement of damaged switch points is started in UG4 on August 10th.

### Previous Issues unresolved:

Final Geotechnical Assessment and Jet Grout Procedure submittals for the MSE Wall #202 are in Metro review.

## **GREEN LINE TIE-IN:**

- Green Line Cutover work is completed at this time. Additional coordination is required.

## Segment A

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



## SEGMENT A:

- Replacement of damaged switch points continues from the Green Line Wye northward through Segment A.
- Rework of plinth gap to invert continues throughout the Segment.
- Rail profile grinding inspection continues with Metro Track Operations Inspectors.
- Punchlist walk with WSCC QC Inspector continues to review current completion status.
- Disturbed ballast due to systems electrical conduit relocations continues to be repaired and re-dressed.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Guideway- HCC on SB track staging switch points for T/O's that will be replaced at GL Wye (looking south) Rework

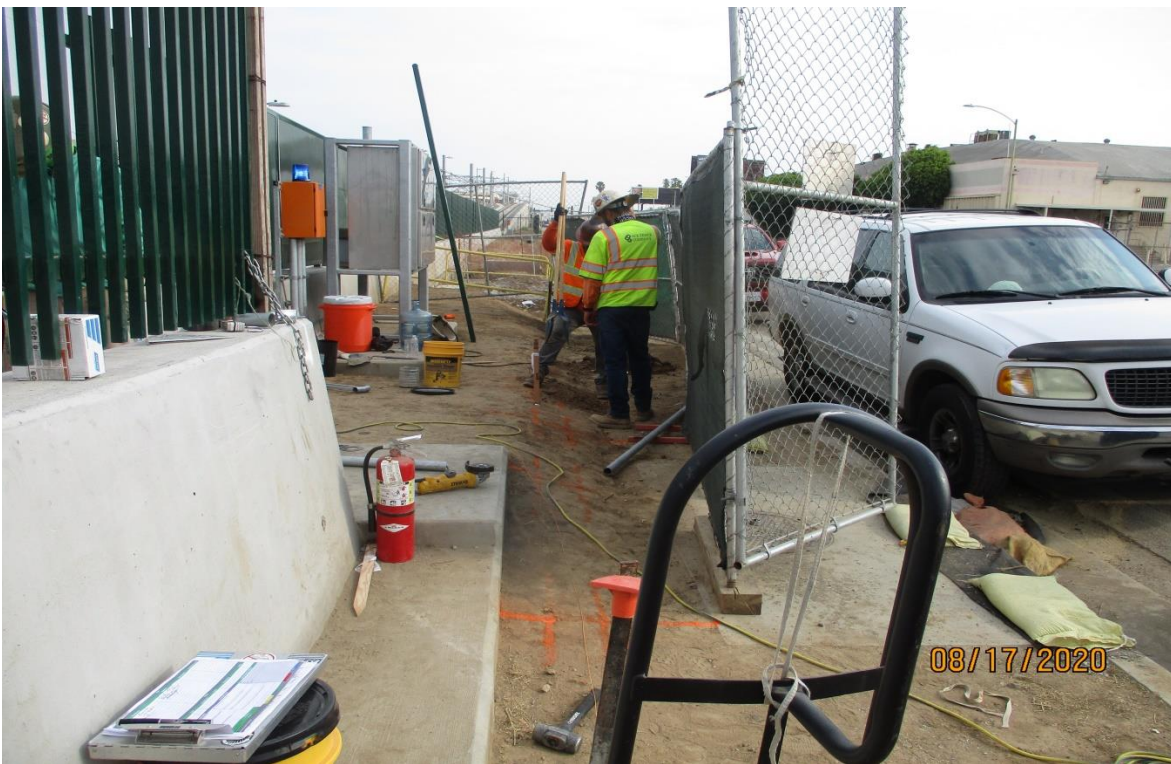


Guideway- LKC & HCC installing & adjusting connecting rods for 10ERH XO at GL Wye (switch point repair) (looking northeast) Rework

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG1- Drainage swale and amended soil grading at UG-1.



UG1- Digging fence and gate post holes at UG-1

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG1- Drainage swale grading at UG-1.



UG1- Drainage swale and amended soil grading at UG-1.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

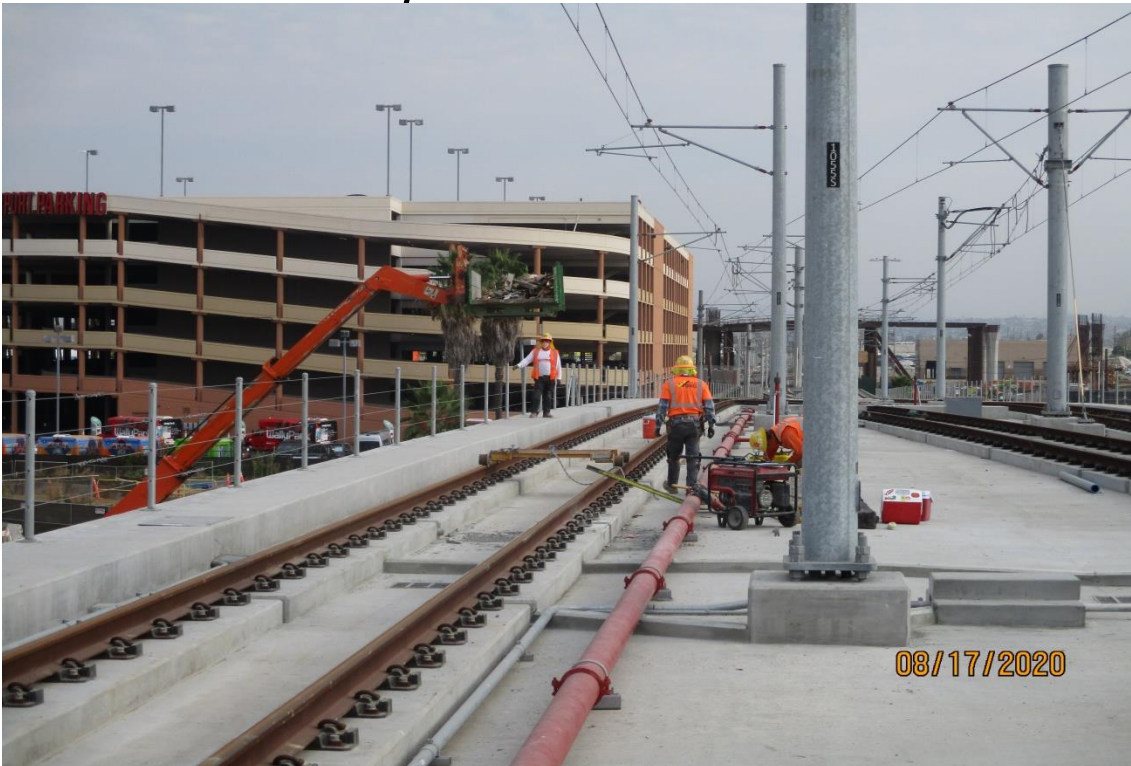


UG1- Grading for the amended soil at UG-1.



UG1- Drainage swale grading at UG-1.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



AVIATION/CENTURY - Stripping forms for the water dams at the Century bridge.



AVIATION/CENTURY- Century/Aviation SB track WSCC demo operation for NCR-A 111 case 4 (looking south) Rework



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



AVIATION/CENTURY- WSCC control demoing end of plinth on SB track Century/Aviation bridge for NCR-A 111 case 4 Rework.



AVIATION/CENTURY- SB track left plinth where WSCC previously demoed end of plinth for rebar dowel install at Century/Aviation station platform

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



AVIATION/CENTURY- Excavating for the traffic signal conduit on Aviation north of Century.



AVIATION/CENTURY- Drill and doweled rebar for the plinth repair on the Century bridge.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



AVIATION/CENTURY- Excavating for the traffic signal conduit on Century. Facing south.



AVIATION/CENTURY- WSCC at Century Plaza preparing for demoing out ends of plinths for NCR-A 111- case 4

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



AVIATION/CENTURY- Installing the copper irrigation pipe at the Aviation Station plaza area.

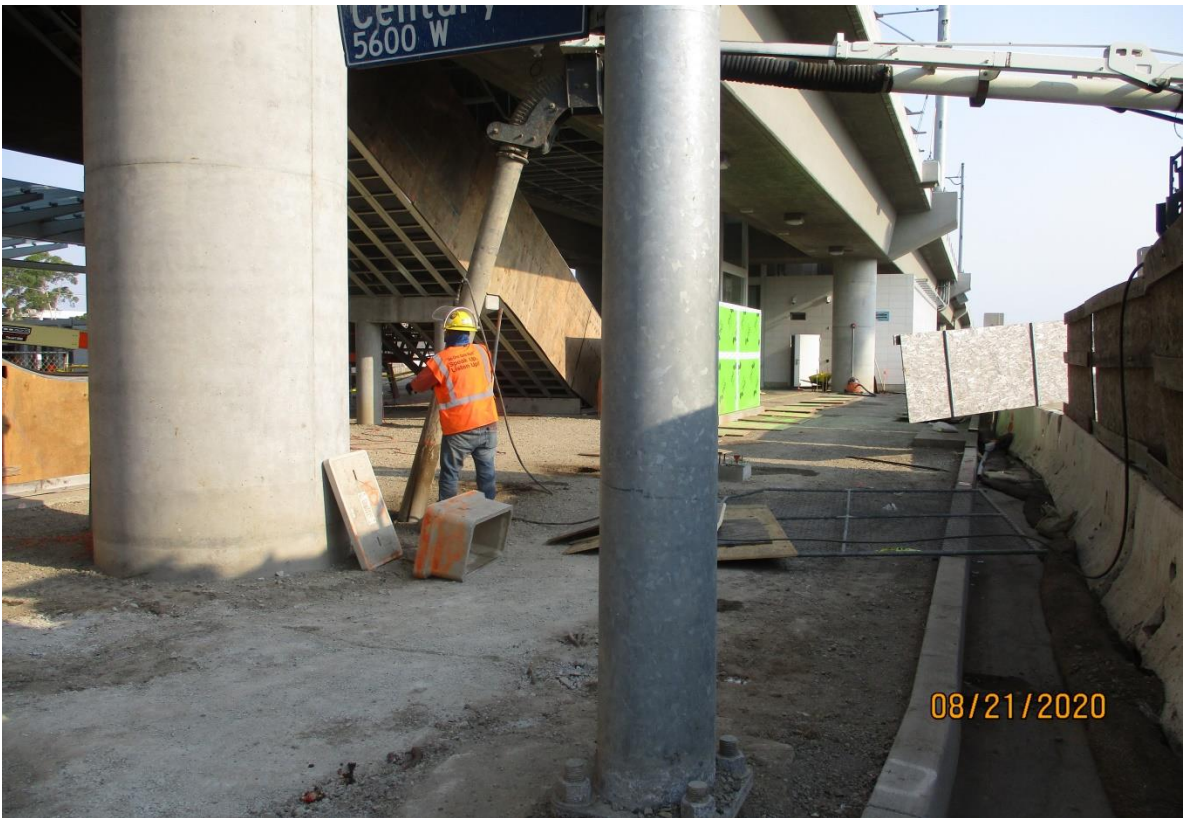


AVIATION/CENTURY- Welding stairway handrails at the Aviation station

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



AVIATION/CENTURY- Trenching for traffic signal conduit at 104th and Aviation.



AVIATION/CENTURY- Excavating for the fence posts at the Aviation Station.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

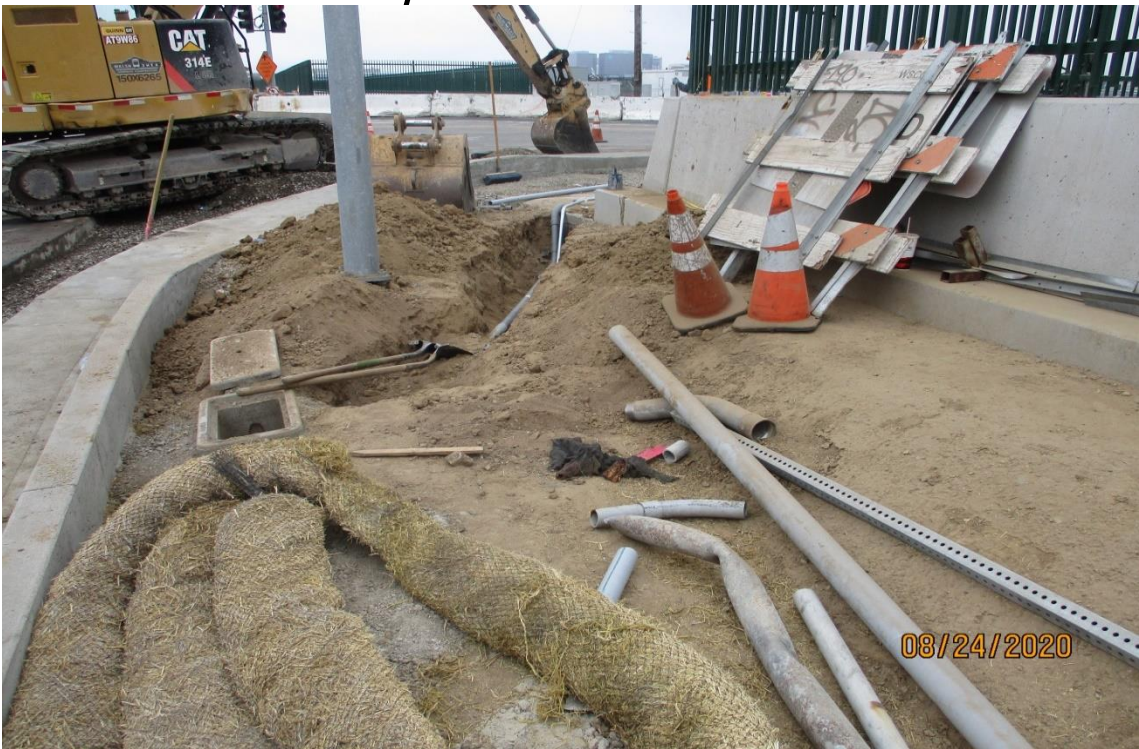


AVIATION/CENTURY- Grading, compaction and setting forms for the curb and gutter on Aviation near 104th street.

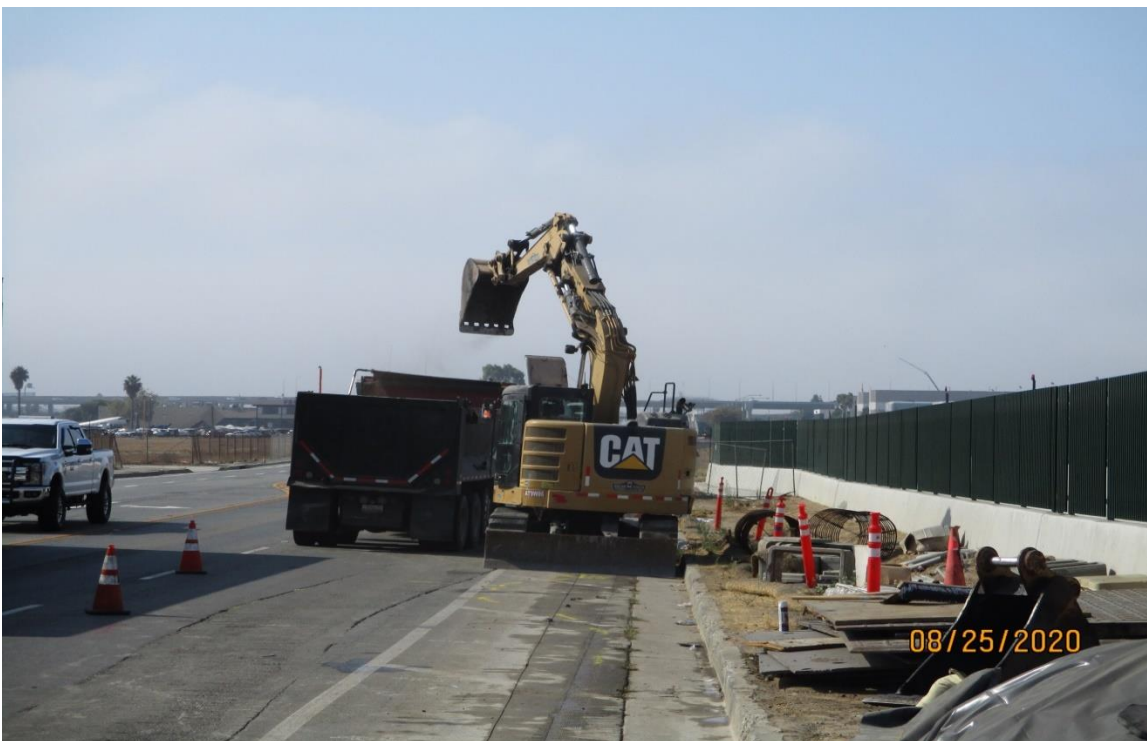


AVIATION/CENTURY- Welding and fabricating on the Aviation Station ticket vending machine.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



AVIATION/CENTURY- Setting pull boxes and conduit on the NW corner of Aviation and 104th street.



AVIATION/CENTURY- Curb and gutter demo on Aviation at 104th street.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



AVIATION/CENTURY- Lower a traffic signal pole at the SE corner of Aviation and 104th street.



AVIATION/CENTURY- Handrail erection at the Aviation Station.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



AVIATION/CENTURY- Placing concrete for the fence posts at the Aviation Station.

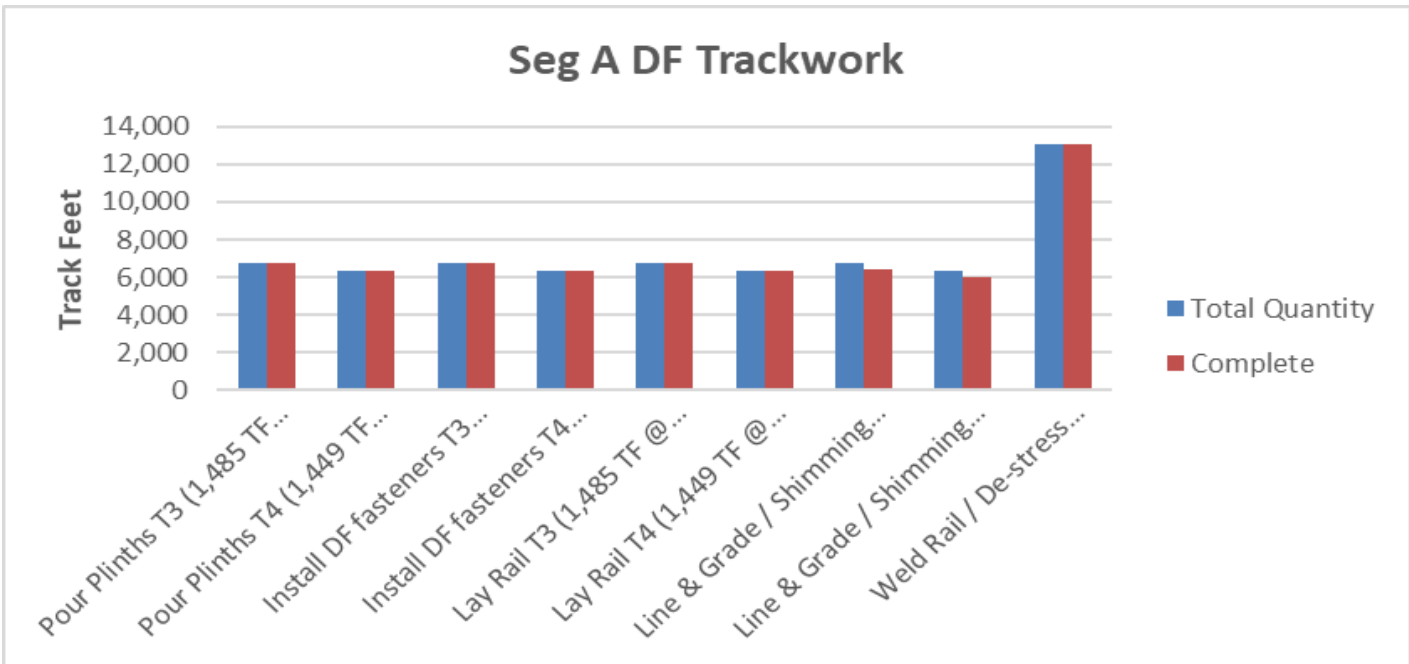
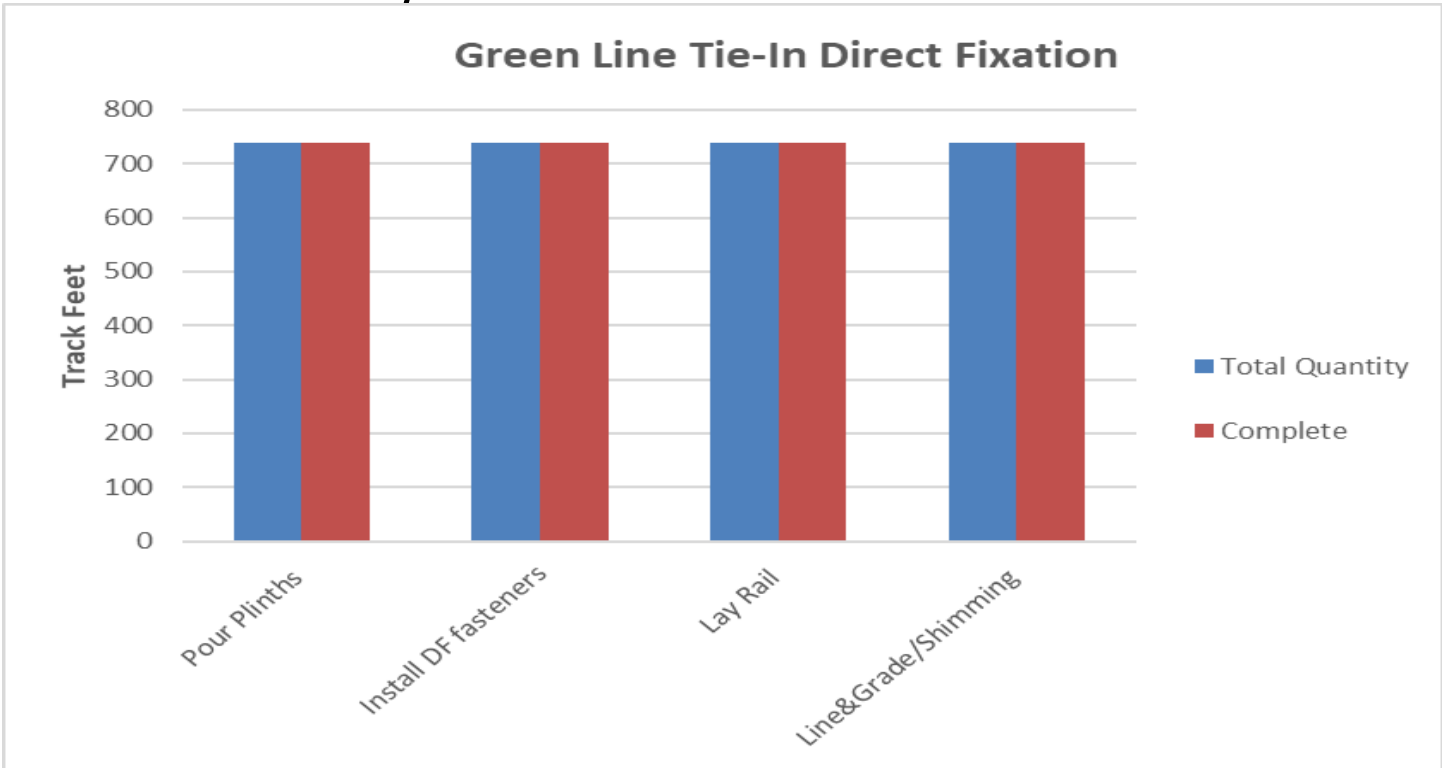


AVIATION/CENTURY- Forms set for the curb and gutter on the SW corner of Aviation and 104th.

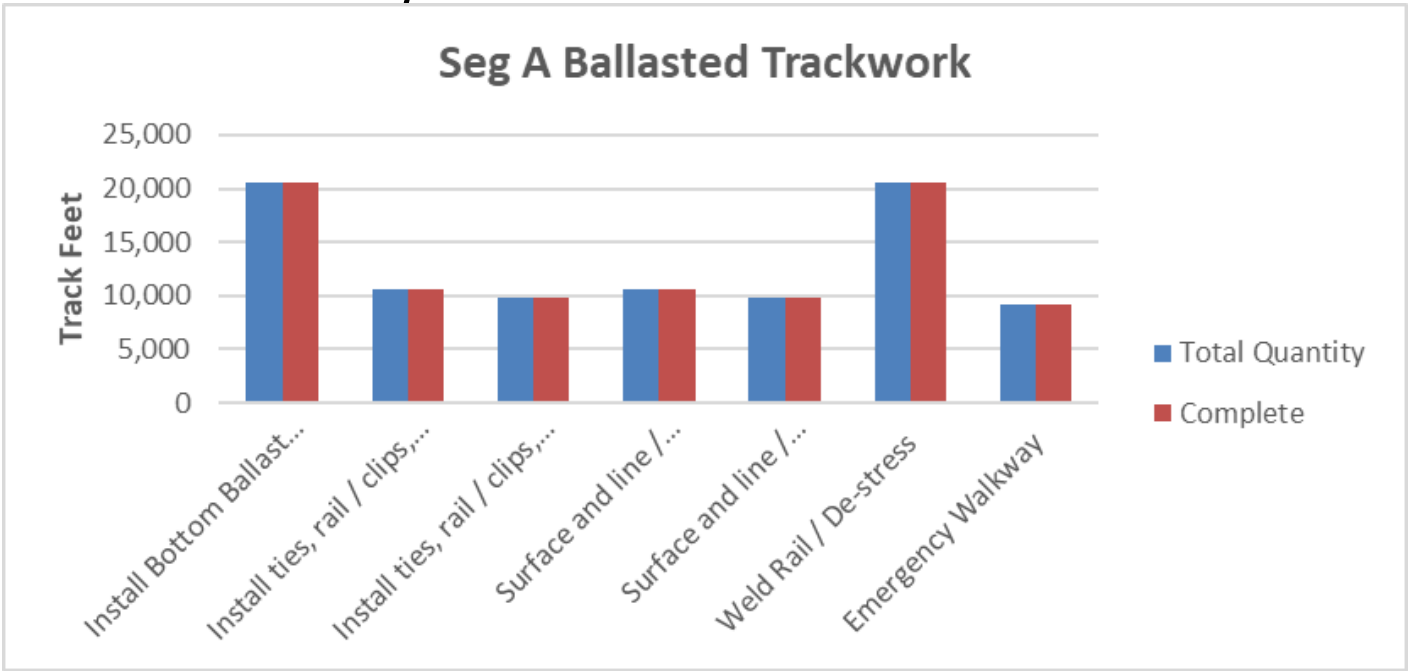
# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

PROJECT WIDE TRACKWORK PROGRESS									
	TRACK TYPE	ACTIVITY	TRACK FEET/QUANTITY	INSTALLED TO DATE	REMAINING	ACTIVITY % PROGRESS	Potential Rework *	Punchlist ** (Complete/Incomplete)	
<b>GREENLINE TIE-IN</b>	<b>DIRECT FIXATION</b>	Pour Plinths	738	738	0	100.00%			
		Install DF fasteners	738	738	0	100.00%			
		Lay Rail	738	738	0	100.00%			
		Line&Grade/Shimming	738	738	0	100.00%			
		Weld Rail/ Destress							
		Emergency Walkway	4	4	0	100.00%		INC	
	Acceptance for turnover to subcontractors		yes/no	yes					
	<b>SPECIAL TRACKWORK</b>	DF Double Crossovers (Diamond XING 1 & 2)	2	2	0	100.00%			
		Line & Grade / Shimming	2	2	0	100.00%			
		DF Single Crossovers (A/F, B/E, C/F, D/E)	4	4	0	100.00%			
		Line & Grade / Shimming	4	4	0	100.00%			
		Thermite Welds	40	40	0	100.00%			
		Insulated Joints (IJ's)	28	28	0	100.00%	*		
	Acceptance for turnover to subcontractors		yes/no	yes					
<b>SEGMENT A</b>	<b>DF (13,089 TF include 395 TF of K1/K2 XO)</b>	Pour Plinths T3 (1,485 TF @ wye + 4,884 TF + 395 TF K1/K2 XO) <i>(Insert rework continues)</i>	6,763	6,763	0	100.00%	*		
		Pour Plinths T4 (1,449 TF @ wye + 4,877 TF) <i>(Insert rework continues)</i>	6,326	6,326	0	100.00%	*		
		Install DF fasteners T3 (1,485 TF @ wye + 4,884 TF + 395 TF K1/K2 XO)	6,763	6,763	0	100.00%	*		
		Install DF fasteners T4 (1,449 TF @ wye + 4,877 TF)	6,326	6,326	0	100.00%	*		
		Lay Rail T3 (1,485 TF @ wye + 4,884 TF + 395 TF K1/K2 XO)	6,763	6,763	0	100.00%			
		Lay Rail T4 (1,449 TF @ wye + 4,877 TF)	6,326	6,326	0	100.00%			
		Line & Grade / Shimming T3 (1,485 TF @ wye + 4,884 TF + 395 TF K1/K2 XO)	6,763	6,425	338	95.00%			
		Line & Grade / Shimming T4 (1,449 TF @ wye + 4,877 TF)	6,326	6,010	316	95.00%			
		Weld Rail / De-stress (Rework complete)	13,089	13089	0	100.00%	*		
		Emergency Walkway							
	Acceptance for turnover to subcontractors		yes/no	no					
	<b>BALLASTED TRACKWORK (20,551 TF including grade crossing, Yard Leads &amp; Tail Track)</b>	Install Bottom Ballast (T3+T4, and include SYL, NYL & Tail Track)	20,551	20,551	0	100.00%	*		
		Install ties, rail / clips, top ballast T3 (9,480 TF) + SYL (244 TF) + NYL (937 TF)	10,661	10,661	0	100.00%	*		
		Install ties, rail / clips, top ballast T4 (9,475 TF) + Tail Track (415 TF)	9,890	9,890	0	100.00%	*		
		Surface and line / Regulate T3 + SYL + NYL	10,661	10,661	0	100.00%	*	INC	
		Surface and line / Regulate T4 + Tail Track	9,890	9,890	0	100.00%	*	INC	
		Weld Rail / De-stress	20,550	20,550	0	100.00%	*	INC	
		Emergency Walkway	9,176	9,176	0	100.00%	*	INC	
	Acceptance for turnover to subcontractors		yes/no	no					
	<b>SPECIAL TRACKWORK</b>	Ballasted Double Crossover (G1/G2, H1/H2)	2	2	0	100.00%			
		DF Single Crossover (K1/K2)	2	2	0	100.00%		*	
		Line & Grade / Shimming	2	0	2				
		Ballasted Single Crossover (I1/IEQ, I2/IEQ, M1/M2, N1/N2)	4	4	0	100.00%			
		Install switches (A,B,C,D,E,F,G1,G2,H1,H2,I1,I2,IEQ,S,N1,N2,M1,M2 = 18)	18	18	0	100.00%			
		Thermite Welds	130	130	0	100.00%			
	Insulated Joints (IJ's)	74	74	0	100.00%		*		
Acceptance for turnover to subcontractors		yes/no	no						
<b>GRADE X-ING</b>	Construct Crossing (Arbor Vitae, Hindry)	2	2	0	100.00%				
DF =	Direct Fixation								
T3 =	Track 3								
T4 =	Track 4								
TF =	Track Feet								
*	Potential for rework based on recent guideway survey. Total impact of rework is unknown at this time.								
**	Punchlist Complete/Incomplete: Indicates the completion (COMP) or Incompletion (INC) of identified punchlist items								

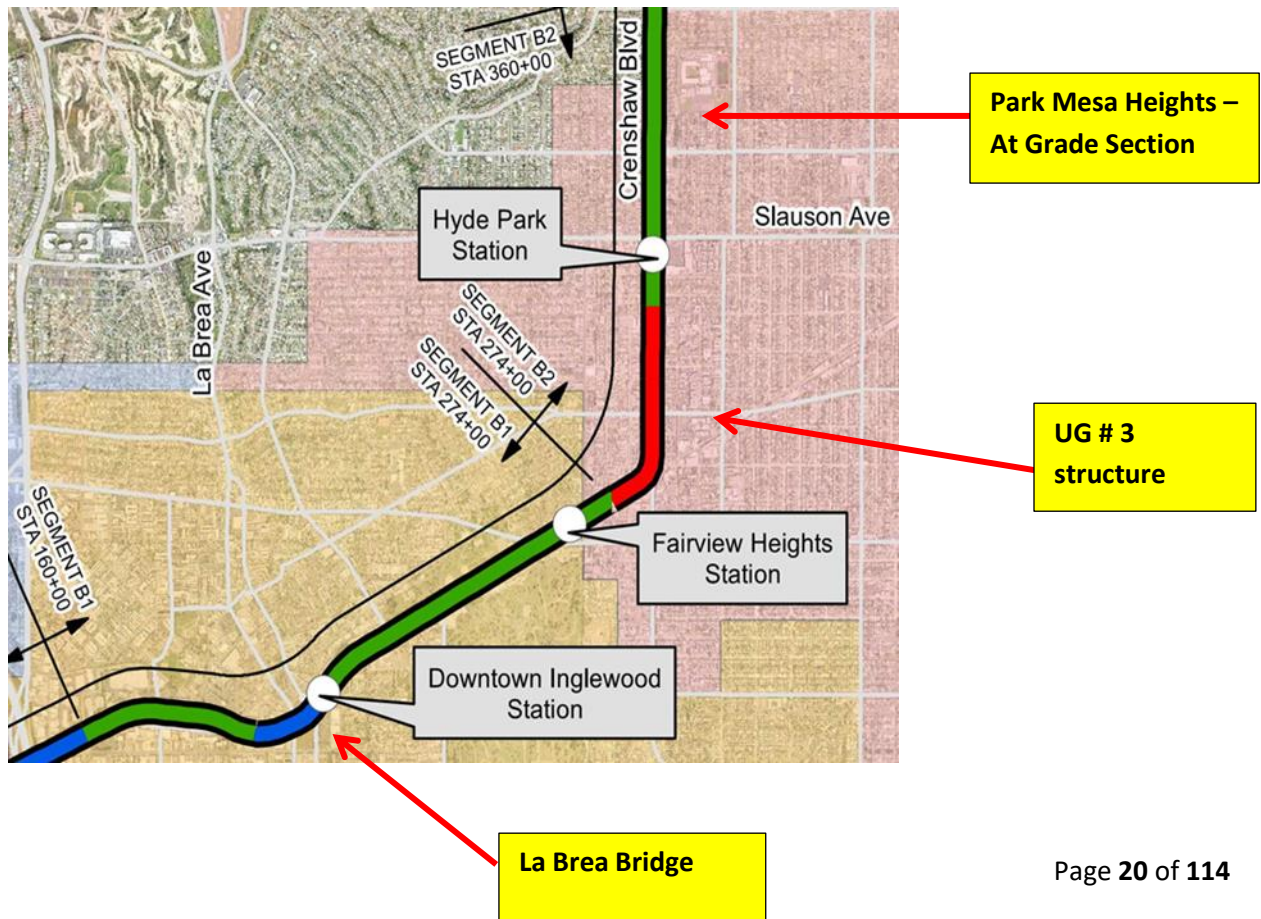
# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



## Segment B



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



La Brea – NB track La Brea STA 207+25 electrical wiring still in place, with track scheduled for removal at this location (looking north)



La Brea – HCC track gang at La Brea waiting for LKC to remove track wiring.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



La Brea – HCC using speed swing & rail dogs to remove rails on NB track at La Brea wall 202 between STA 203+ 50 & 207+50 (looking northeast) Rework

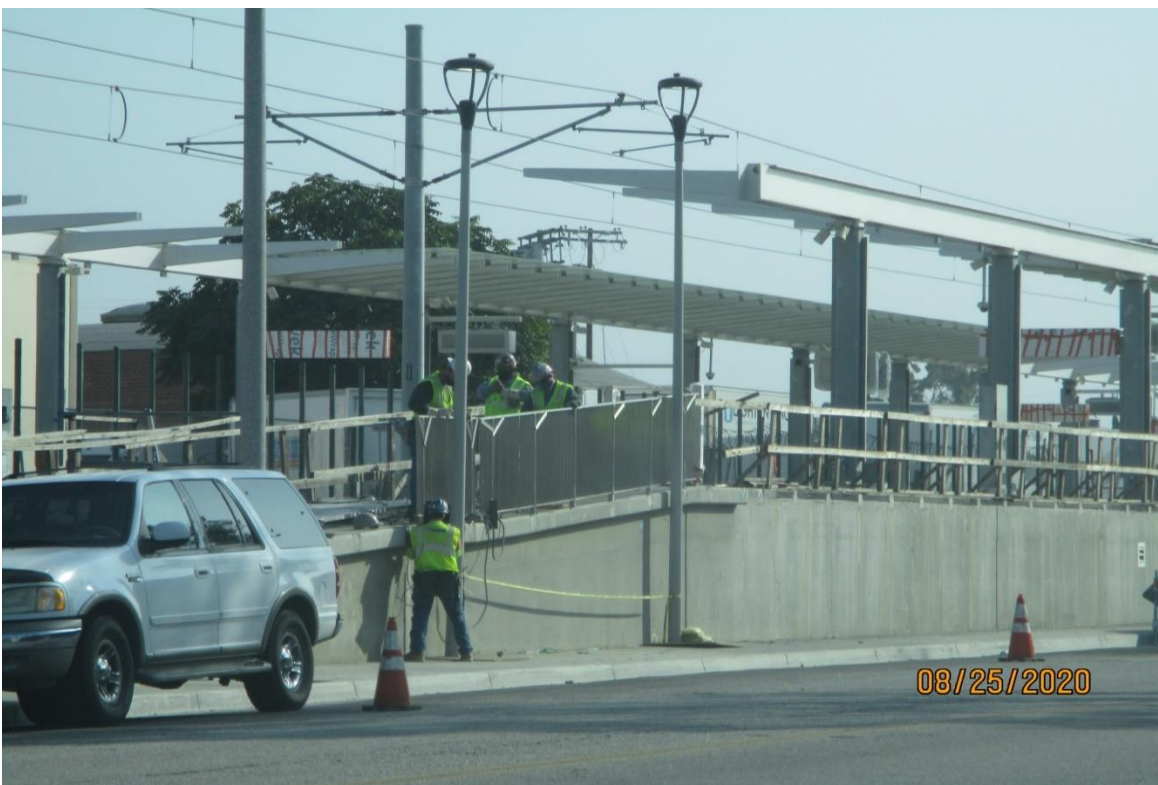


La Brea – LKC removed electrical track wiring on NB track at La Brea between STA 203+00 & 207+75 for HCC, WSCC to removal rails on NB track between these stations (looking north) Rework

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Hindry – Excavating for bollards at the Hindry Station NB platform.



Hindry – Handrail erection at the Hindry Station.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



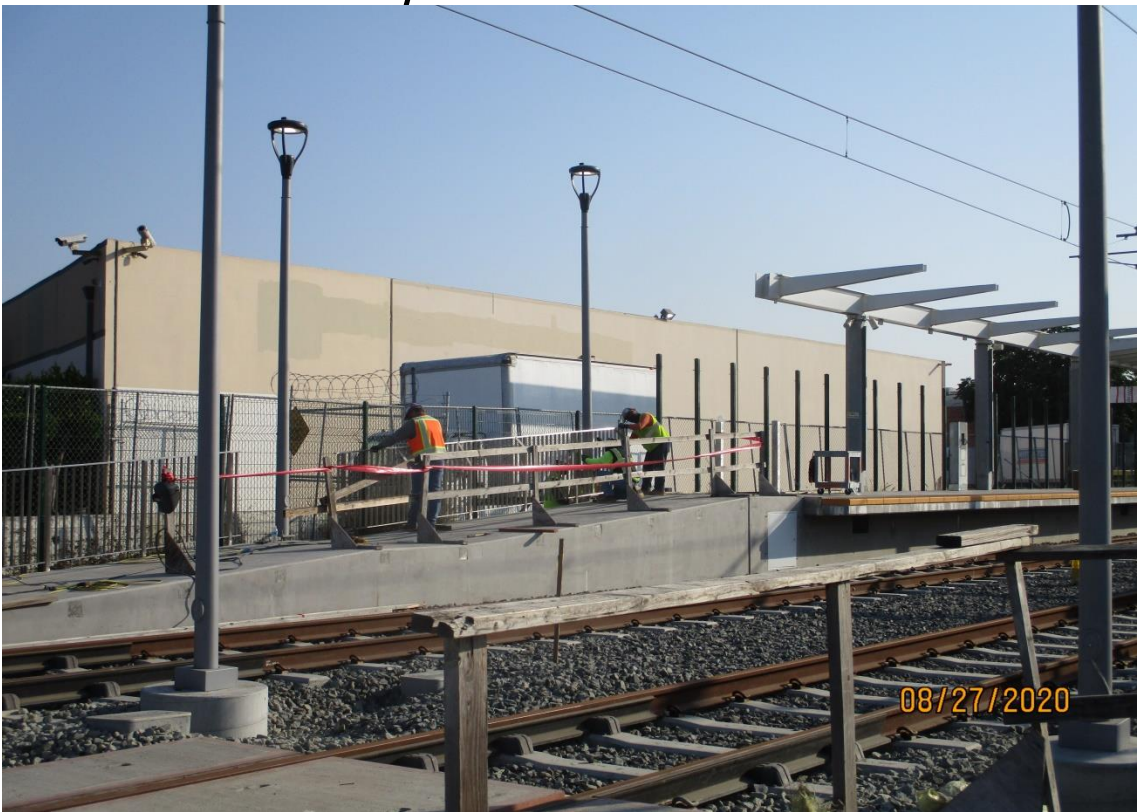
Hindry – Concrete finish work at the Hindry Station.



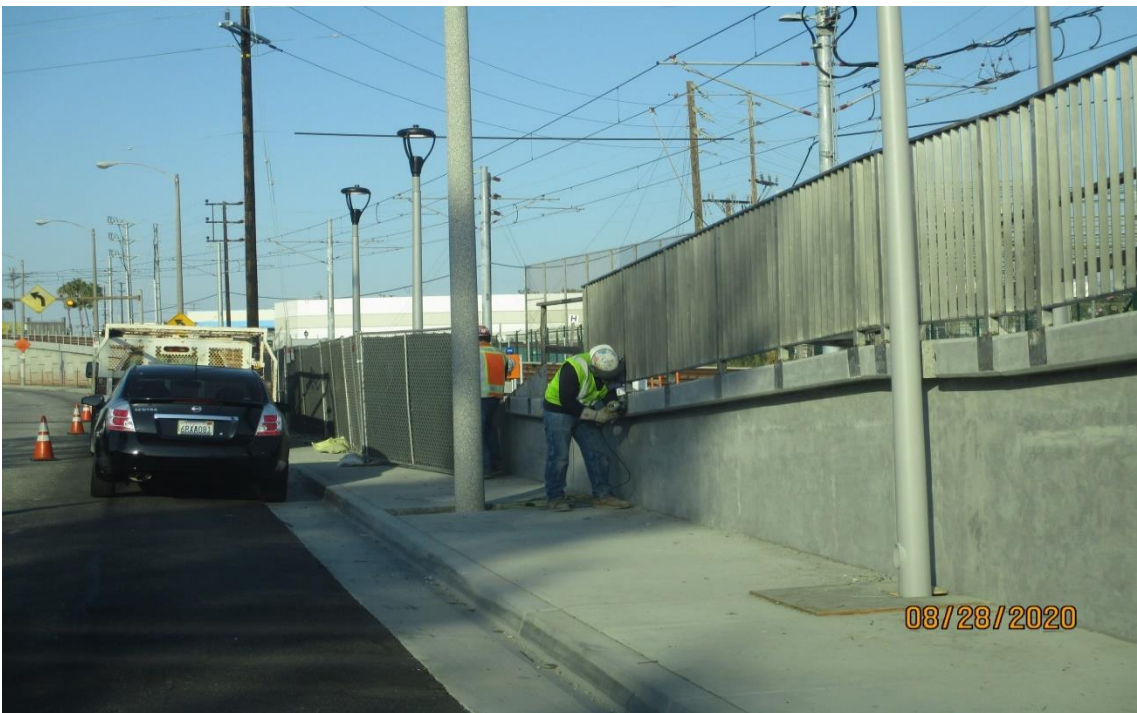
Hindry – Setting bollards around the meter pad and generator receptacle at the Hindry Station.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Hindry – Setting handrails at the Hindry Station SB platform.



Hindry – Handrail erection at the Hindry Station NB platform.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG3 – WSCC working on plinths at UG-3.

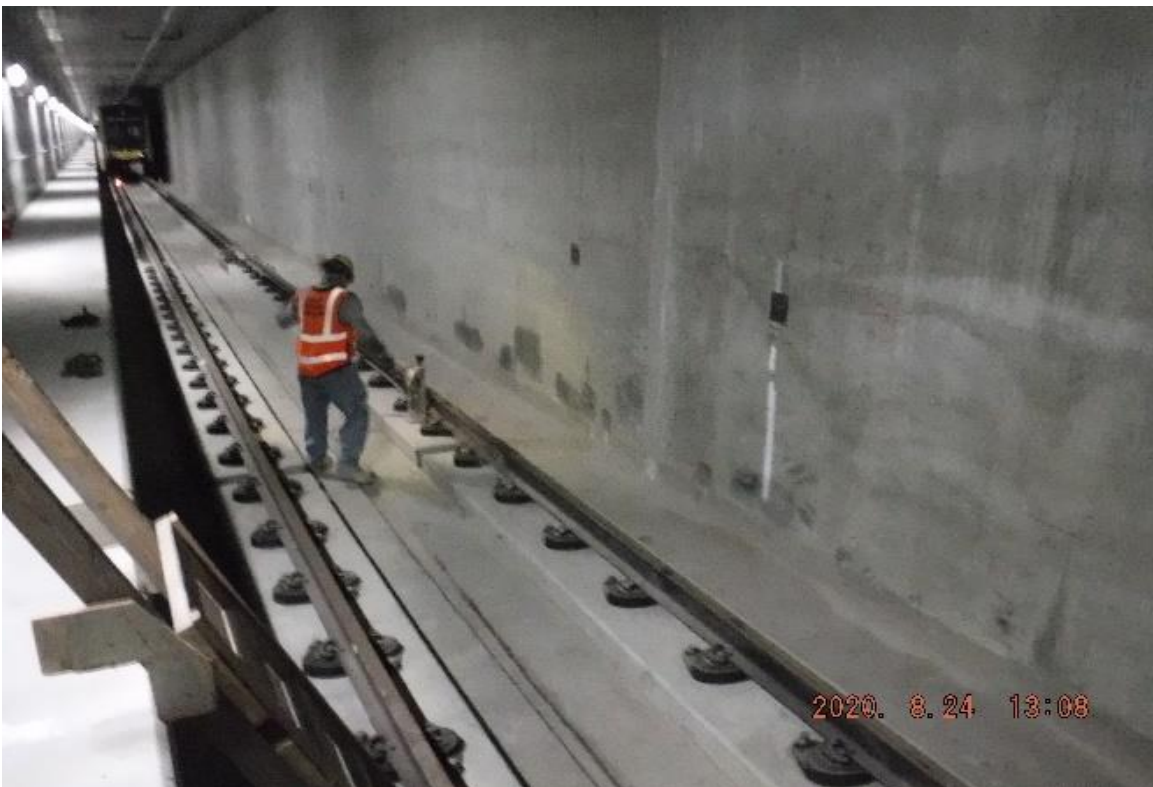


UG3 – WSCC working on plinths northbound UG-3.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG3 – STA 277+50 TK#3/SB looking south – NCR-A-111.B Case #4 UG3 new dowel epoxy (Victoria)



UG3 – STA 297+50 TK#3/SB looking south – NCR-A-111.B Case #4 UG3 (re-set DF's)

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

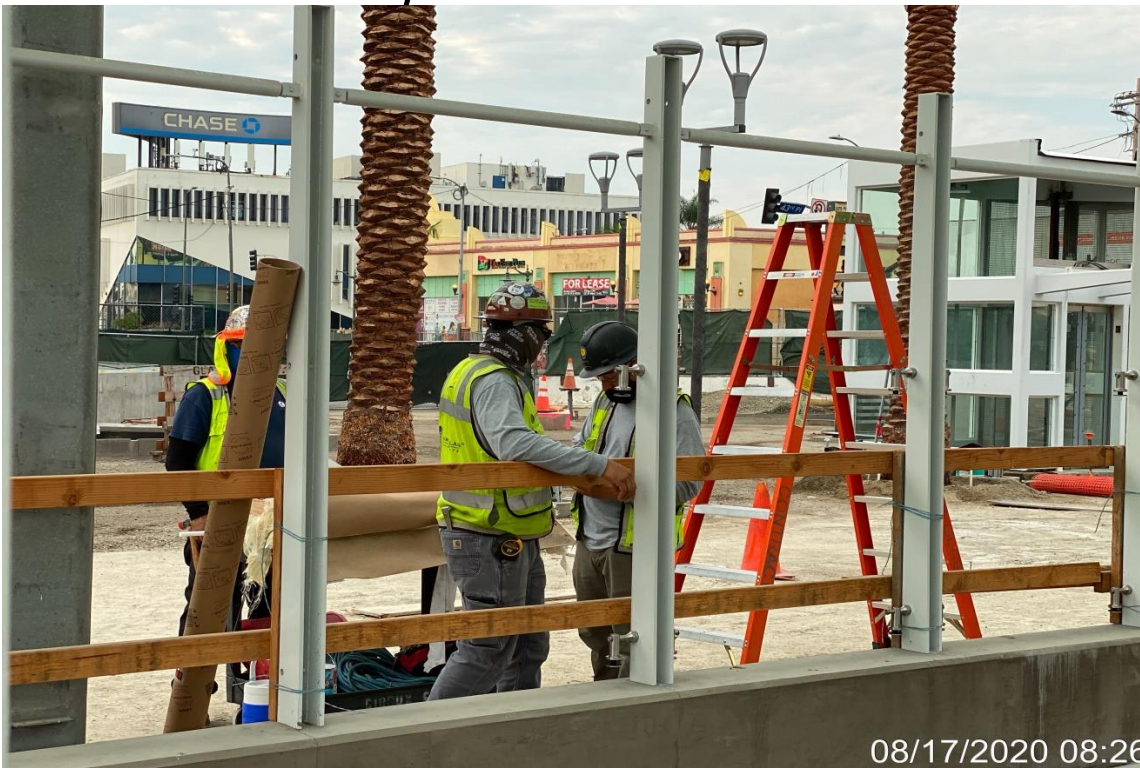


UG3 – STA 302+20 TK#3/SB looking north – NCR-A-111.B Case #4 UG3 (re-set DF's anchor bolts)



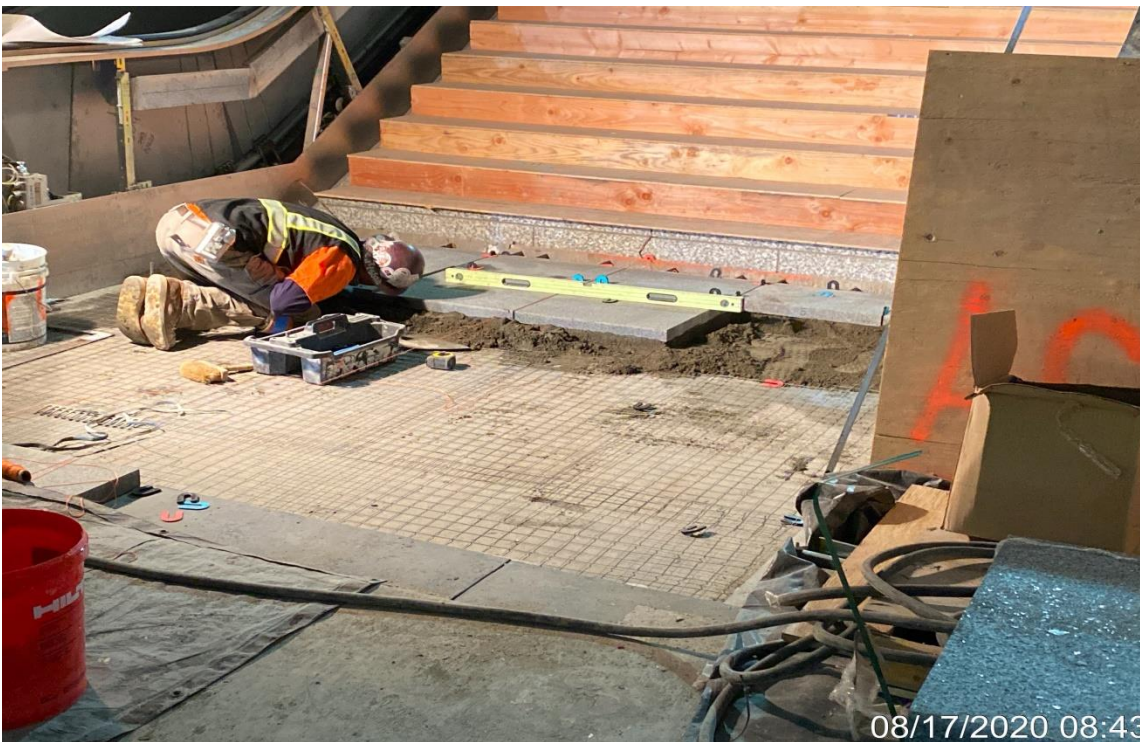
UG3 – STA 284+00 TK#4/NB looking north – NCR-A-111.B Case #4 UG3 (plinth demolition)

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



08/17/2020 08:26

Crenshaw/Vernon – Giroux installing hardware for entry structure Vernon.



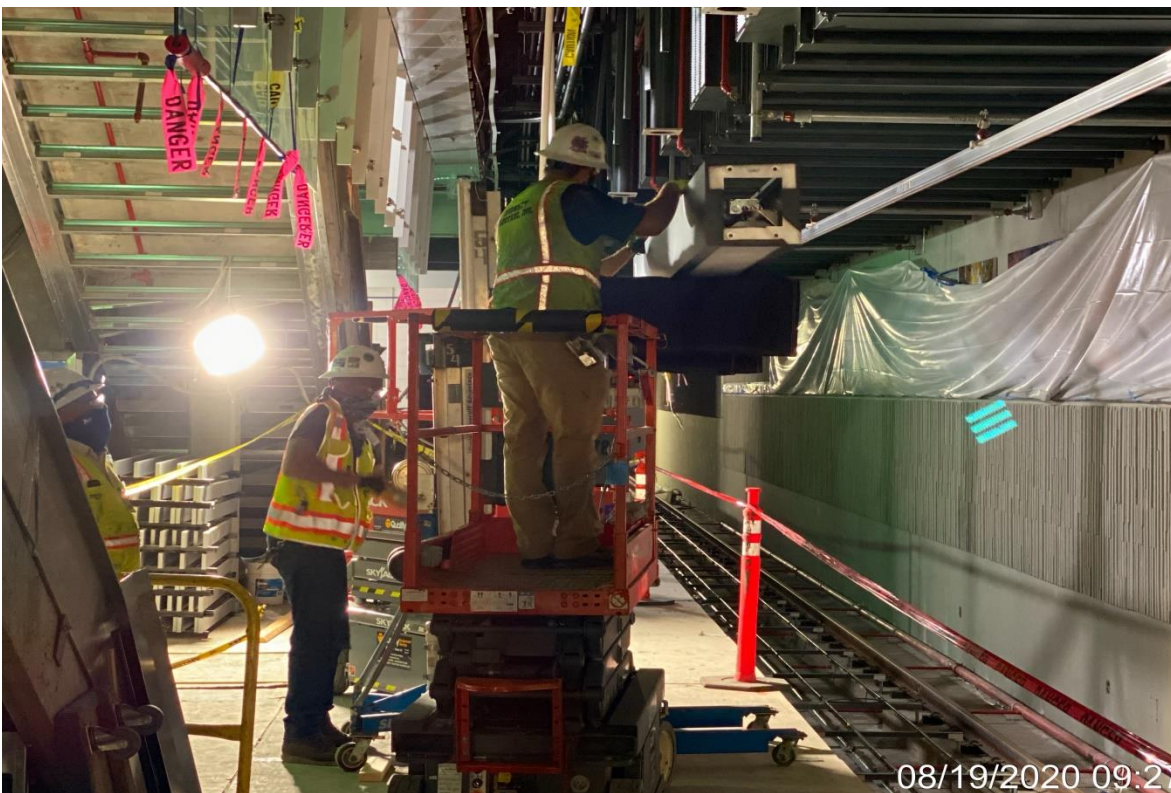
08/17/2020 08:43

Crenshaw/Vernon – Carrera placing granite at landing of Vernon.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Vernon – Giroux installing glass for entry structure Vernon.



Crenshaw/Vernon – Robnett Electric installing edge lighting at Vernon.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Vernon – WSCC forming up Methane vent at Vernon plaza



Crenshaw/Vernon – AJK installing LCD monitors at Vernon platform.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



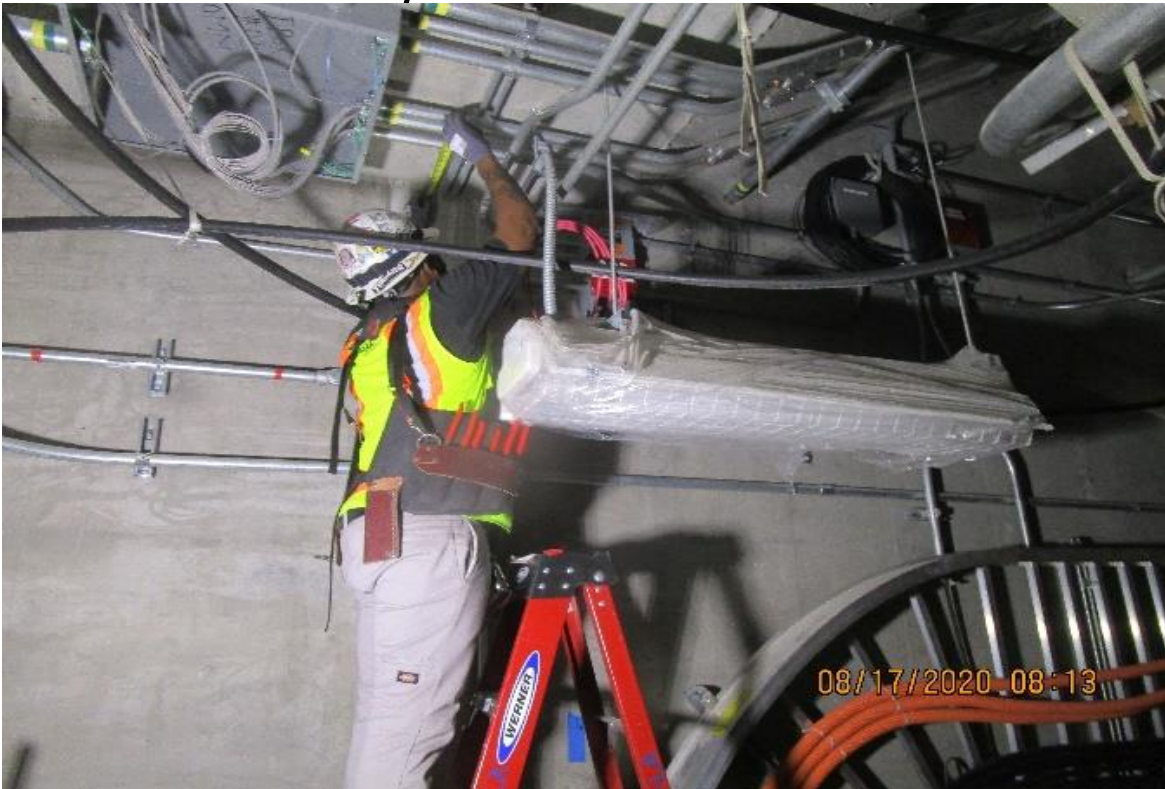
Crenshaw/Vernon – Vernon, Paid Area C146, pulling 1 pair 18 & 1 pair 14 from battery room C120 to FATC for smoke detector



Crenshaw/Vernon – Vernon, Emergency fan room (S) C102, begin rework OTED's 6-301 & 101 replace seal tight with 1" FRP.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

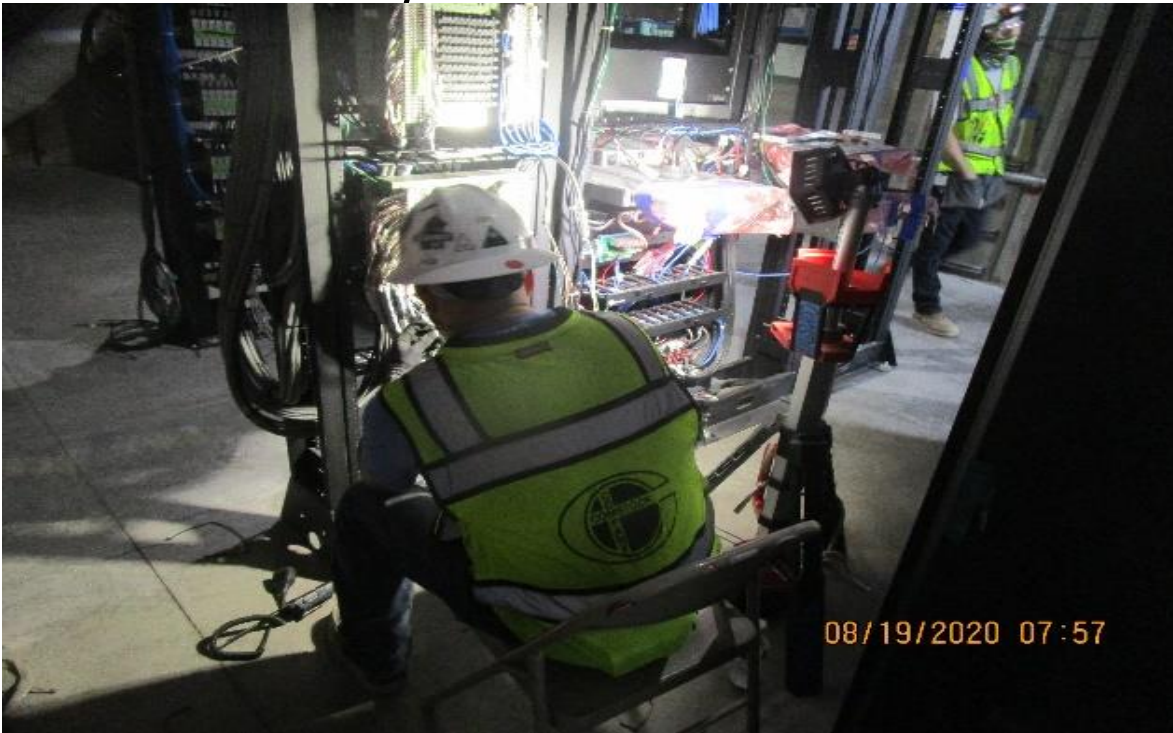


Crenshaw/Vernon – Vernon, Cable room (S) T107, Resume class “A” FA corrections & relocate smoke detector for accessibility.

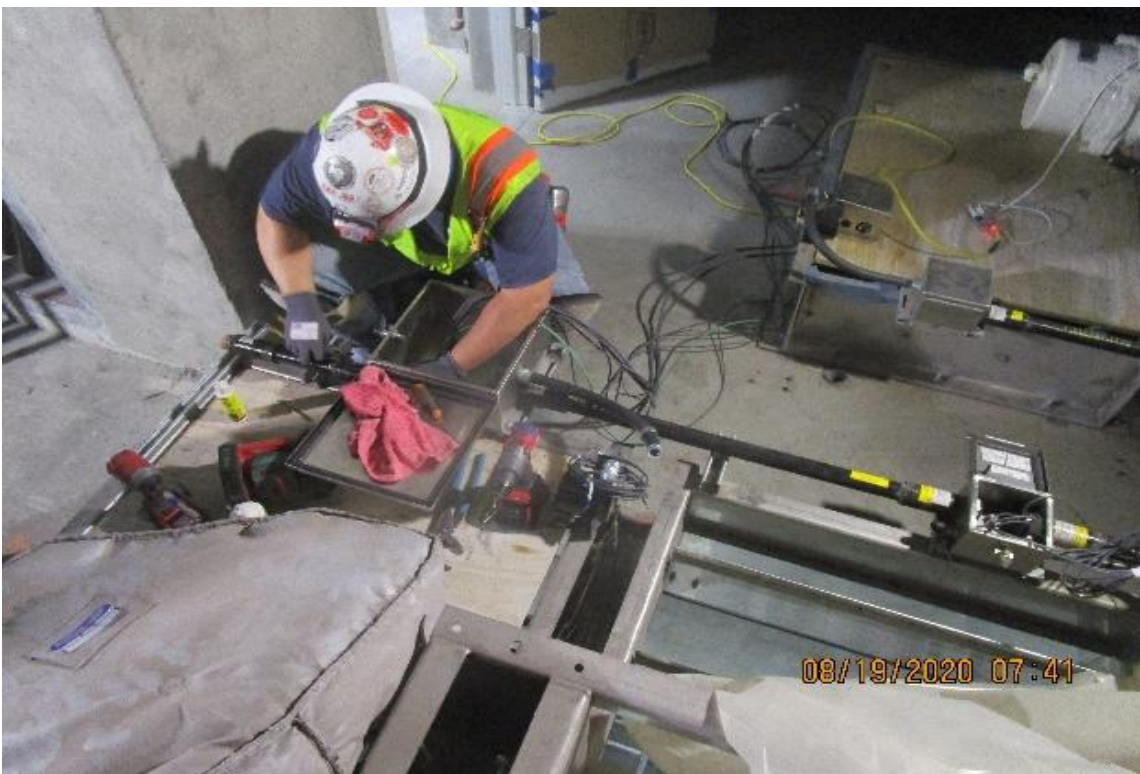


Crenshaw/Vernon – Vernon, Aux power (N) C119, Pipping ¾” GRC from temperature control panel to MCC2/N (control wiring)

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Vernon – Vernon Concourse, TC&C Room C112, Comm rack MDF-2, PET-003 resume termination 6 pair #22 phones.

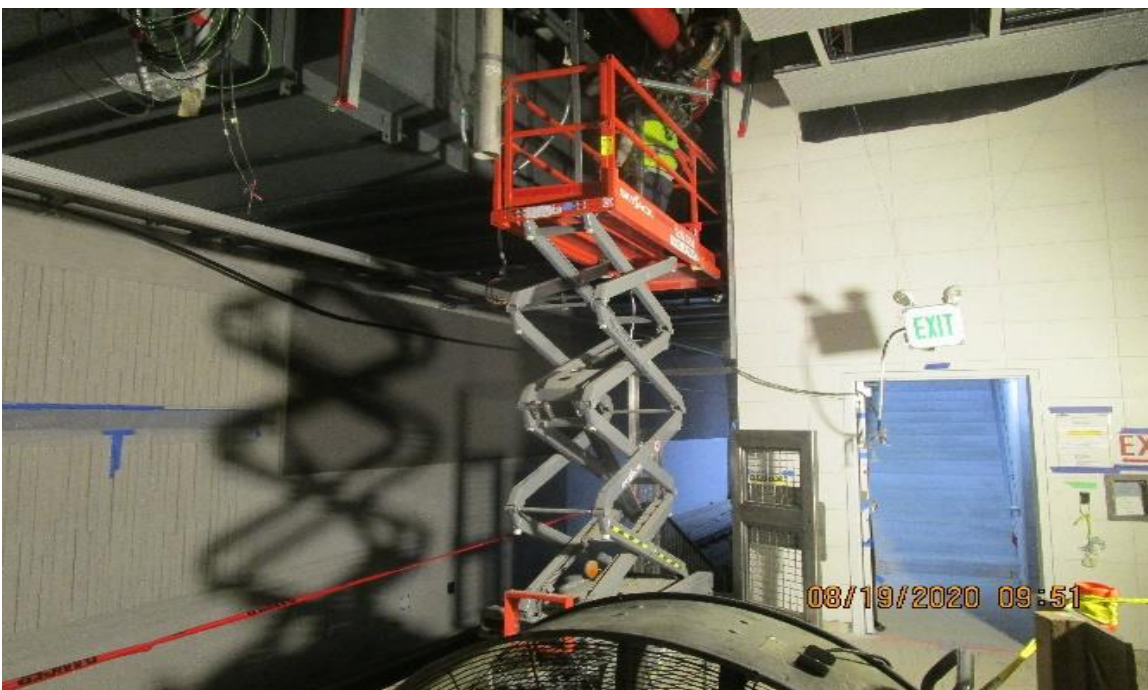


Crenshaw/Vernon – Vernon, Emergency fan room (S) C102, continued rework TD's 6-101 replace seal tight with 1" FRP & pipe HR.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Vernon – Vernon Platform, SB GL's 8-9/C, begin hanging & anchoring edge lighting to support post SB track #3



Crenshaw/Vernon – MLK Platform, begin pulling 7/8 coaxial cable for tie into southbound bored tunnel between MLK & Vernon stations.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Vernon – Vernon Platform, SB GL's 7-9/C, continued hanging & anchoring edge lighting to support post SB track #3.



Crenshaw/Vernon – Vernon, Emergency fan south C102, continued TD's 6-301 identifying, labeling, dressing & terminating wiring.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Vernon – Bored Tunnel, SB, Vernon to MLK, North of CP5, West side of tunnel liner resume pulling 1-1/4” Radiax cable



Crenshaw/Vernon – Vernon Battery room C113 (FA power supply) to TC&C C112 FATC continued supports & pipping 1” GRC.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Vernon – Vernon, Emergency fan south C102, continued BD's 6-101 identifying, labeling, dressing & terminating wiring.

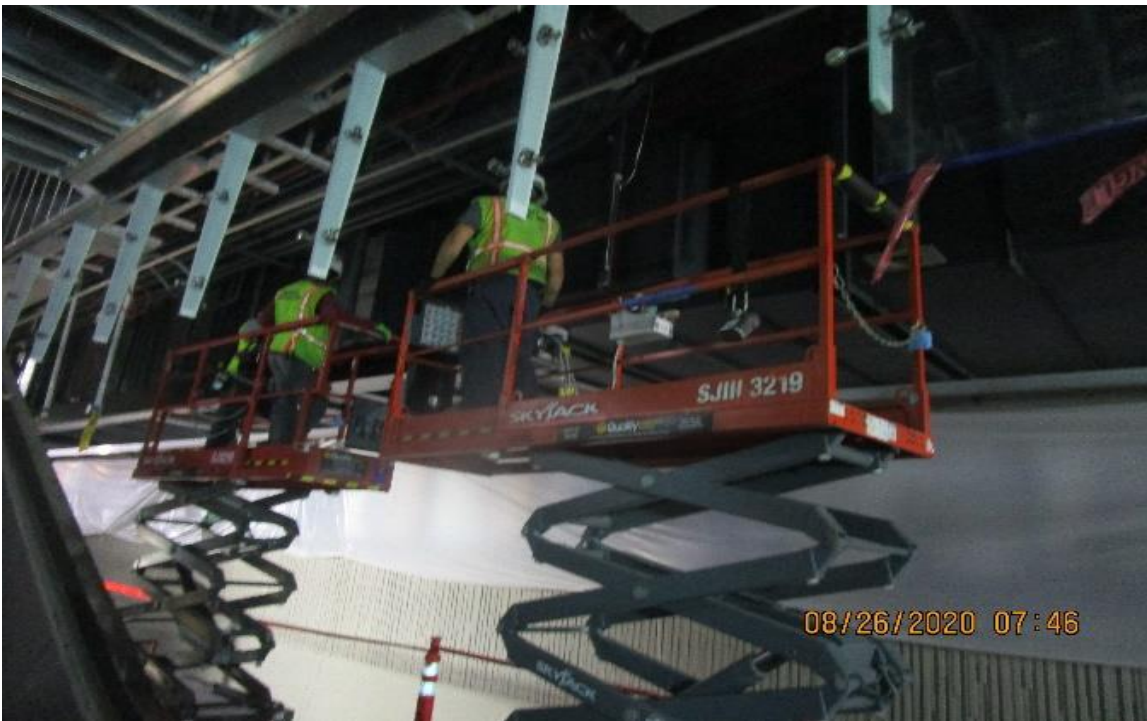


Crenshaw/Vernon – Vernon Concourse, Paid Area C146, begin anchoring ETEL, PTEL podium enclosures & at platform level

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Vernon – Vernon, EM Fan (N) C126, continued piping 2" FRP from LIP to EVF-6-302 factory instrument control PB



Crenshaw/Vernon – Vernon Platform, NB GL's 10-11/B.5. Begin hanging & anchoring edge lighting to support post NB track #4

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Vernon – Vernon Paid Area C146, EMP Begin identifying, labeling & terminating #12 XHHW-2, Hot, Neutral & ground



Crenshaw/Vernon – Vernon Platform, SB GL's 13-15/A.5. Continued plumbing, squaring & leveling Edge lighting fixtures.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Park Mesa – Excavating for new street light pole foundation on southbound Crenshaw Blvd and 67th St.



PARK MESA – Excavating for the restoration of Catch Basin #30 on the northeast corner of Crenshaw Blvd and 67th St.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



PARK MESA – Building stem wall forms for Catch Basin #30 on the northeast corner of Crenshaw Blvd and 67th St.

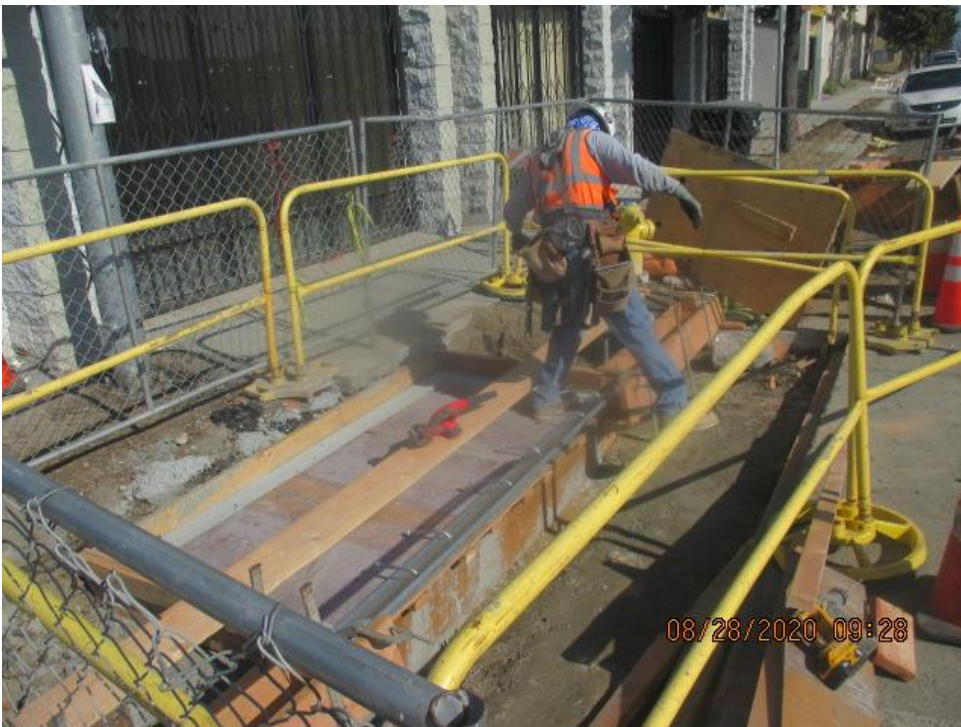


PARK MESA – Continue building stem wall forms for Catch Basin #30 on the northeast corner of Crenshaw Blvd and 67th St.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



PARK MESA – Placing slurry backfill for Catch Basin #30 on the northeast corner of Crenshaw Blvd and 67th St.



PARK MESA – Installing top deck lid onto Catch Basin #30 on the northeast corner of Crenshaw Blvd and 67th St.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



PARK MESA – Sack and patching Catch Basin #30 on the northeast corner of Crenshaw Blvd and 67th St.



PARK MESA – Excavating for pull box installation for new street light pole on the northeast corner of Crenshaw Blvd and 66th St.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



PARK MESA – Excavating for pull box installation for new street and signal light poles the southeast corner of Crenshaw Blvd and Hyde Park Blvd.



PARK MESA – Continue excavating for pull box installation for new street and signal light poles the southeast corner of Crenshaw Blvd and Hyde Park Blvd.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



PARK MESA – Demolishing sidewalk panel for restoration on eastbound Slauson Blvd and Crenshaw Blvd.



PARK MESA – Placing asphalt concrete roadway cap on the intersection of southbound Crenshaw Blvd and 57th St.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



HYDE PARK STATION – Continue installing LCD variable messaging systems at the south end of the platform level.



HYDE PARK STATION – Installing roofing to the canopy on the south end of the platform level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



HYDE PARK STATION SITE – Continue installing roofing to the canopy on the south end of the platform level.



HYDE PARK STATION SITE – Continue installing roofing to the canopy on the south and north end of the platform level.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



HYDE PARK STATION SITE – Continue installing roofing to the canopy on the south and north end of the platform level.

## **SEGMENT B1:**

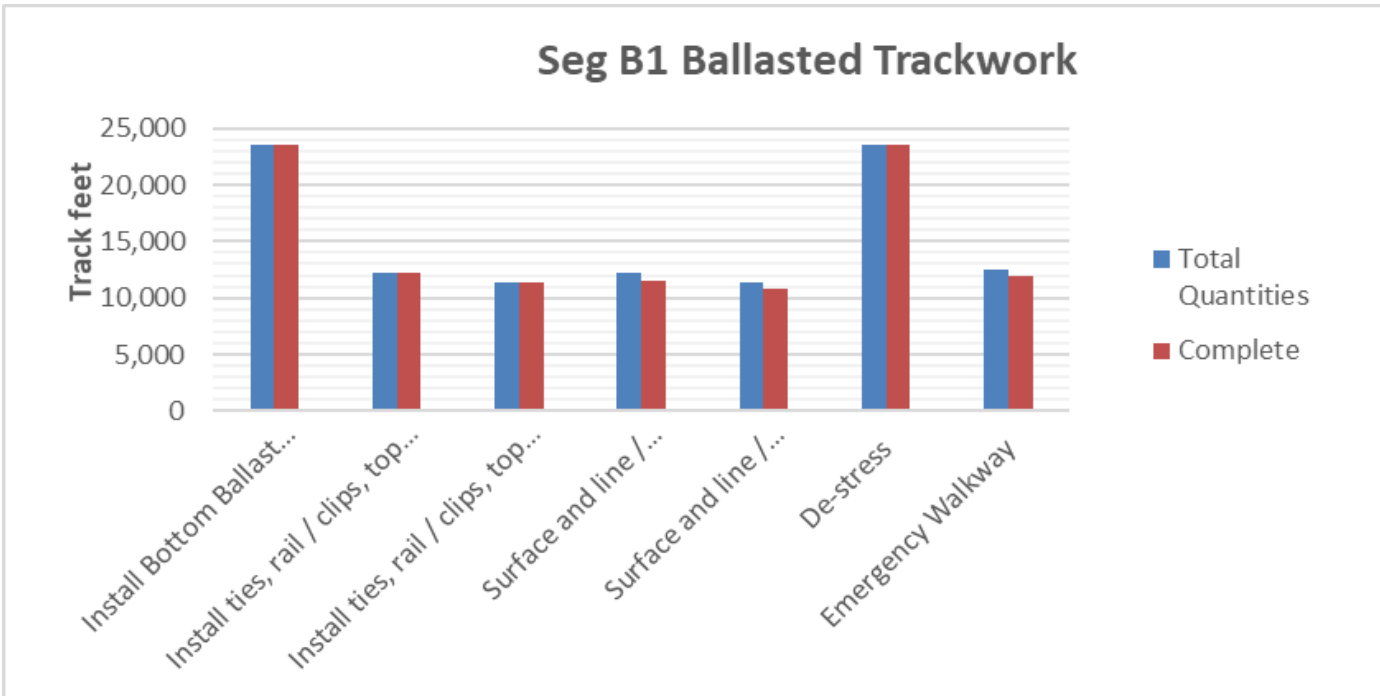
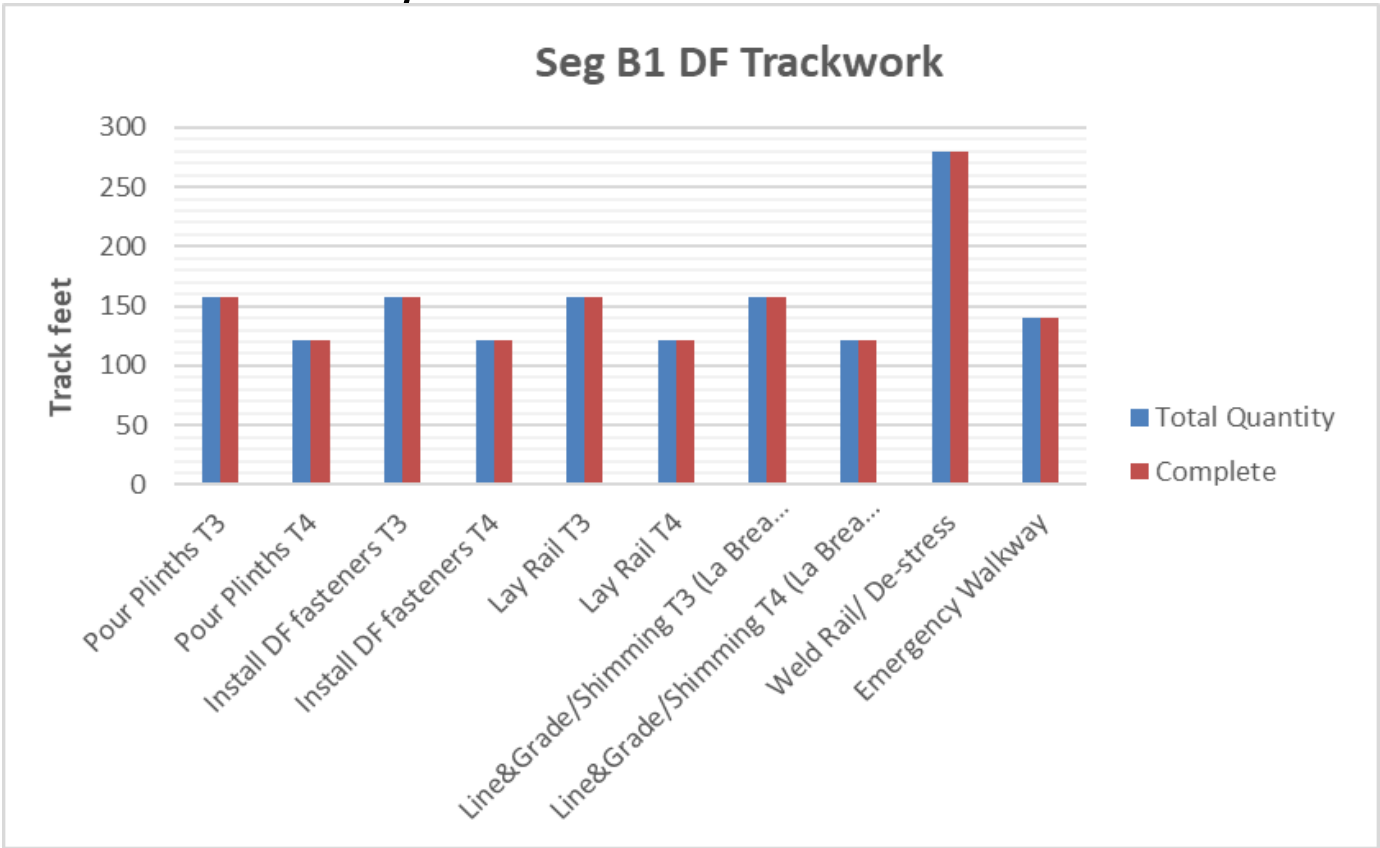
- Disturbed ballast due to systems electrical conduit relocations continues to be repaired and re-dressed.
- WSCC submitted the Stability Calculations and the CWP for Wall 202 Jet Grouting for review.
- WSCC has completed the removal of SB rails, ballast, and ties above Wall 202 and excavated to expose the AC cap.
- WSCC has completed the removal of NB rails, ballast and ties above Wall 202 and excavate to expose the AC cap.
- Investigation of rail flaws continues.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

## PROJECT WIDE TRACKWORK PROGRESS

	TRACK TYPE	ACTIVITY	TRACK FEET/QUANTITY	INSTALLED TO DATE	REMAINING	ACTIVITY % PROGRESS	Potential Rework *	Punchlist ** (Complete/Incomplete)	
<b>SEGMENT B1</b>	<b>DF (279 TF)</b>	Pour Plinths T3	158	158	0	100.00%			
		Pour Plinths T4	121	121	0	100.00%			
		Install DF fasteners T3	158	158	0	100.00%	*	INC	
		Install DF fasteners T4	121	121	0	100.00%	*	INC	
		Lay Rail T3	158	158	0	100.00%			
		Lay Rail T4	121	121	0	100.00%			
		Line&Grade/Shimming T3 (La Brea Bridge)	158	158	0	100.00%			
		Line&Grade/Shimming T4 (La Brea Bridge)	121	121	0	100.00%			
		Weld Rail/ De-stress	279	279	0	100.00%			
		Emergency Walkway	140	140	0	100.00%			
	Acceptance for turnover to subcontractors	yes/no	no						
	<b>BALLASTED TRACKWORK (23,506 TF including grade crossings and Siding track)</b>	Install Bottom Ballast (T3+T4 and Siding)	23,506	23,506	0	100.00%	*	INC	
		Install ties, rail / clips, top ballast T3 + Siding	12,184	12,184	0	100.00%	*	INC	
		Install ties, rail / clips, top ballast T4	11,322	11,322	0	100.00%	*	INC	
		Surface and line / Regulate T3 + Siding	12,184	11,575	609	95.00%			
		Surface and line / Regulate T4	11,322	10,756	566	95.00%			
		De-stress	23,506	23,506	0	100.00%			
		Emergency Walkway	12,506	12,000	506	95.95%	*	INC	
	Acceptance for turnover to subcontractors	yes/no	yes		N/A				
	<b>SPECIAL TRACKWORK</b>	Ballasted Single Crossover (O1/O2, P1/P2, Q1/Q2, T1/T2)	4	4	0	100.00%			
		Install switches (M, O1, O2, P1, P2, Q1, Q2, R, T1, T2 = 10)	10	10	0	100.00%			
		Thermite Welds	104	104	0	100.00%	*		
		Insulated Joints (IJ's)	43	43	0	100.00%	*		
	Acceptance for turnover to subcontractors	yes/no	No						
	<b>GRADE X-ING</b>	Construct Crossing (Oak/Cedar/Eucalyptus/Ivy/Centinea, High (50%), West, Brynhurst)	8	8			100.00%		
	DF =	Direct Fixation							
	T3 =	Track 3							
	T4 =	Track 4							
TF =	Track Feet								
*	Potential for rework based on recent guideway survey. Total impact of rework is unknown at this time.								
**	Punchlist Complete/Incomplete: Indicates the completion (COMP) or Incompletion (INC) of identified punchlist items								

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

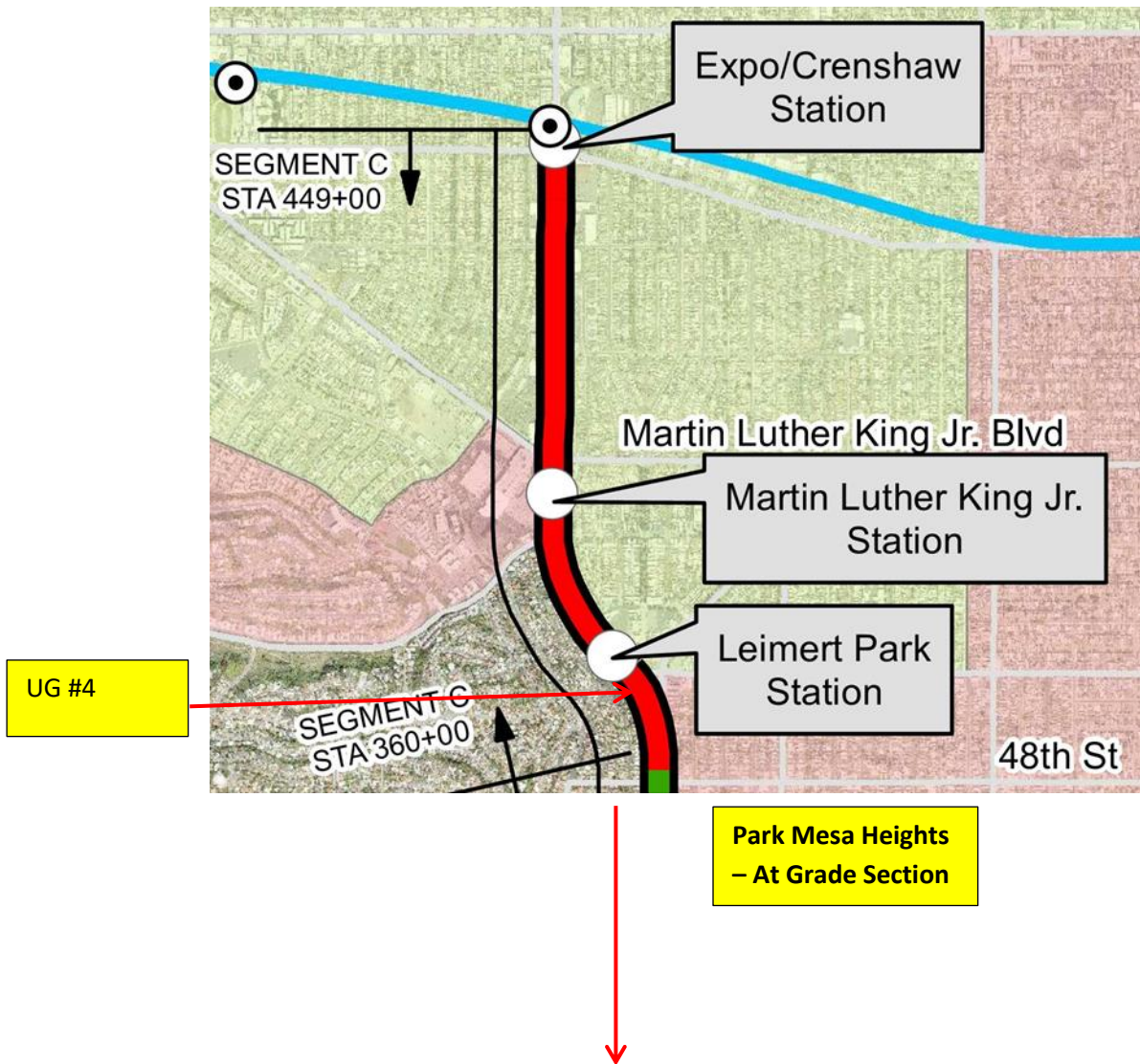


# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

## SEGMENT B2:

- Disturbed ballast due to systems electrical conduit relocations continues to be repaired and re-dressed.
- Rework of plinth gap to invert continues throughout the Segment.

## Segment C



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION SITE – Installing overhead fixtures for the traffic signal light pole on southbound Crenshaw Blvd and 43rd St.



LEIMERT PARK STATION SITE – Preparing to form street light pole foundation on the southeast corner of Crenshaw Blvd and 43rd Pl.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Preparing to form street light pole foundation on the southeast corner of Crenshaw Blvd and 43rd Pl.



LEIMERT PARK STATION – Placing concrete for new street light pole foundation on the southeast corner of Crenshaw Blvd and 43rd Pl.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Built formwork and placed concrete for new ADA ramp (1 of 2) installation on the northeast corner of Crenshaw Blvd and 43rd Pl.



LEIMERT PARK STATION – Saw cut ADA ramp entrance (1 of 2) into the station plaza on the northeast corner of Crenshaw Blvd and 43rd Pl.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Built formwork and placed concrete for new ADA ramp (2 of 2) installation on the northeast corner of Crenshaw Blvd and 43rd Pl.



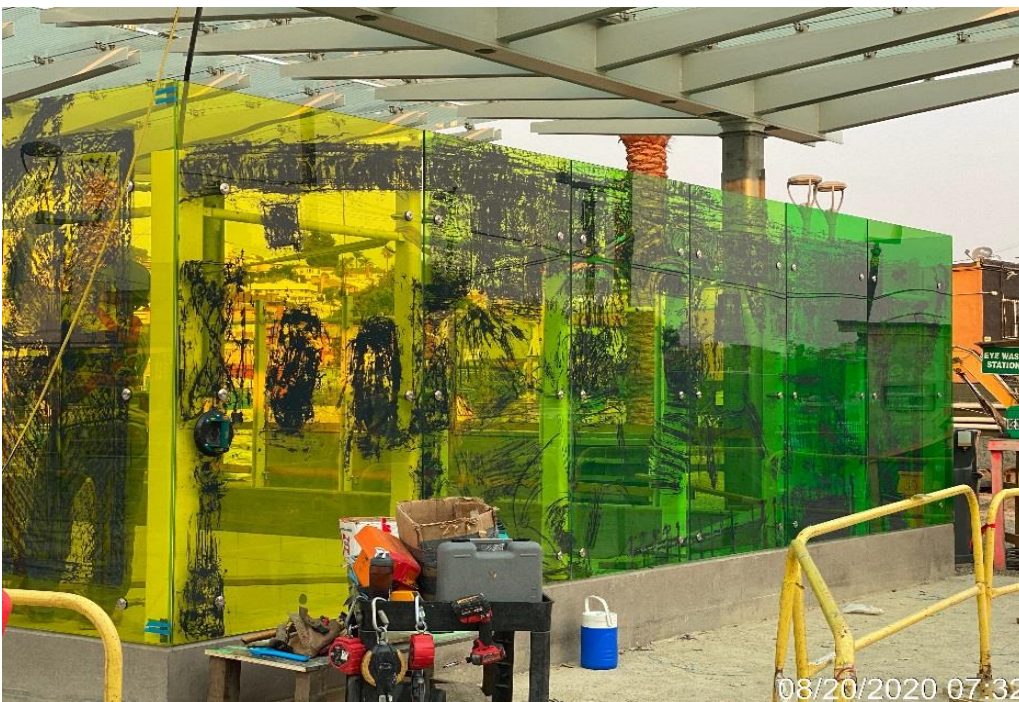
LEIMERT PARK STATION – Saw cut ADA ramp entrance (2 of 2) into the station plaza on the northeast corner of Crenshaw Blvd and 43rd Pl.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

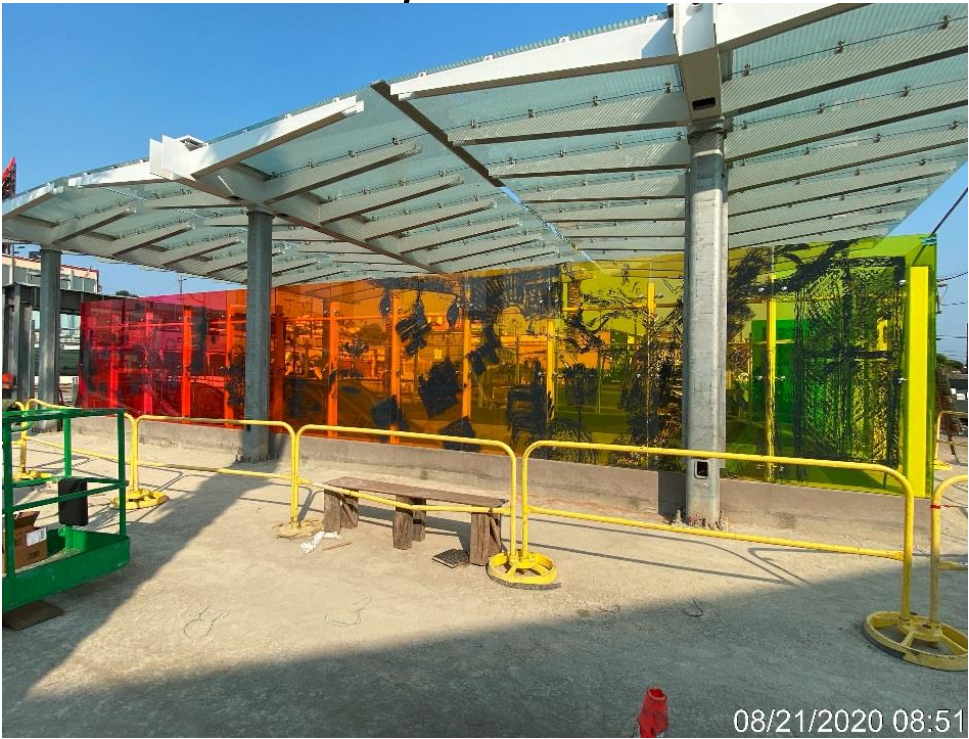


LEIMERT PARK STATION – Installing art glass panels around the main entrance canopy structure at the plaza level.



LEIMERT PARK STATION – Continue installing art glass panels around the main entrance canopy structure at the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Continue installing art glass panels around the main entrance canopy structure at the plaza level.

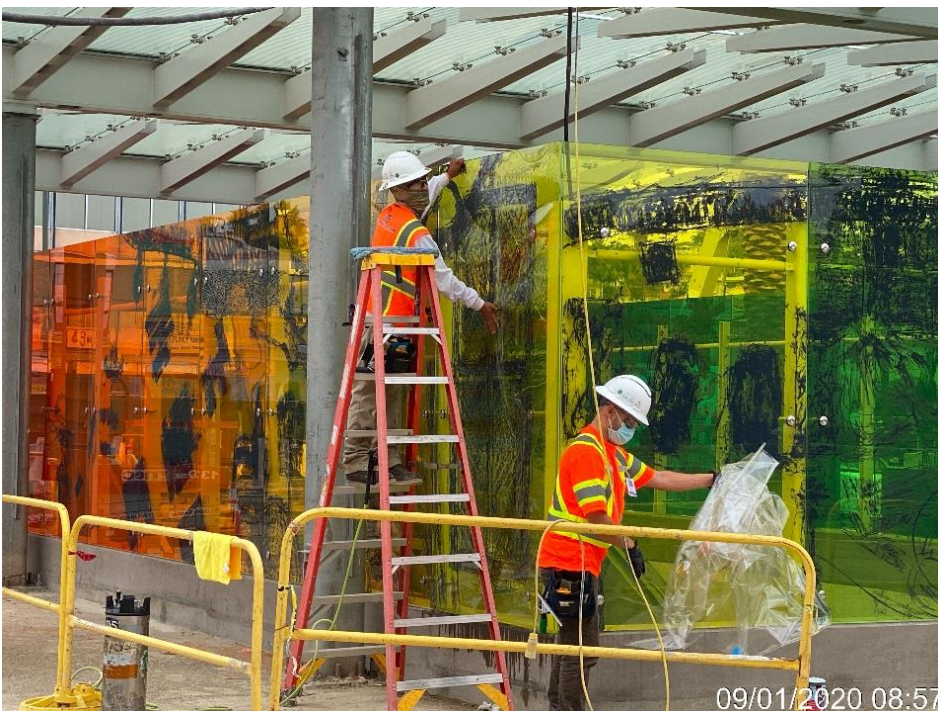


LEIMERT PARK STATION – Continue installing art glass panels around the main entrance canopy structure at the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Continue installing art glass panels around the main entrance canopy structure at the plaza level.



LEIMERT PARK STATION – Building column cover mock-up at the main entrance canopy structure at the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Building column cover mock-up at the main entrance canopy structure at the plaza level.



LEIMERT PARK STATION – Installing ventilation louvers to Elevators 1&2 at the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Building formwork for the Methane Vent Installing at the plaza level.

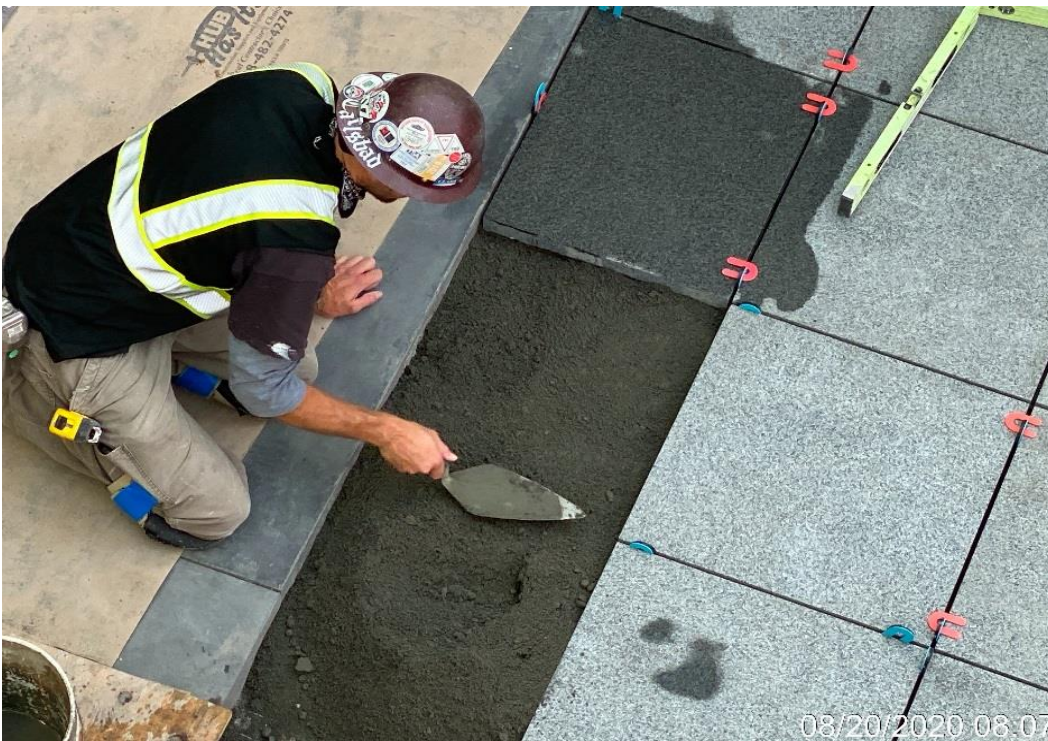


LEIMERT PARK STATION – Installing CCTV cameras to the pedestrian light poles at the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

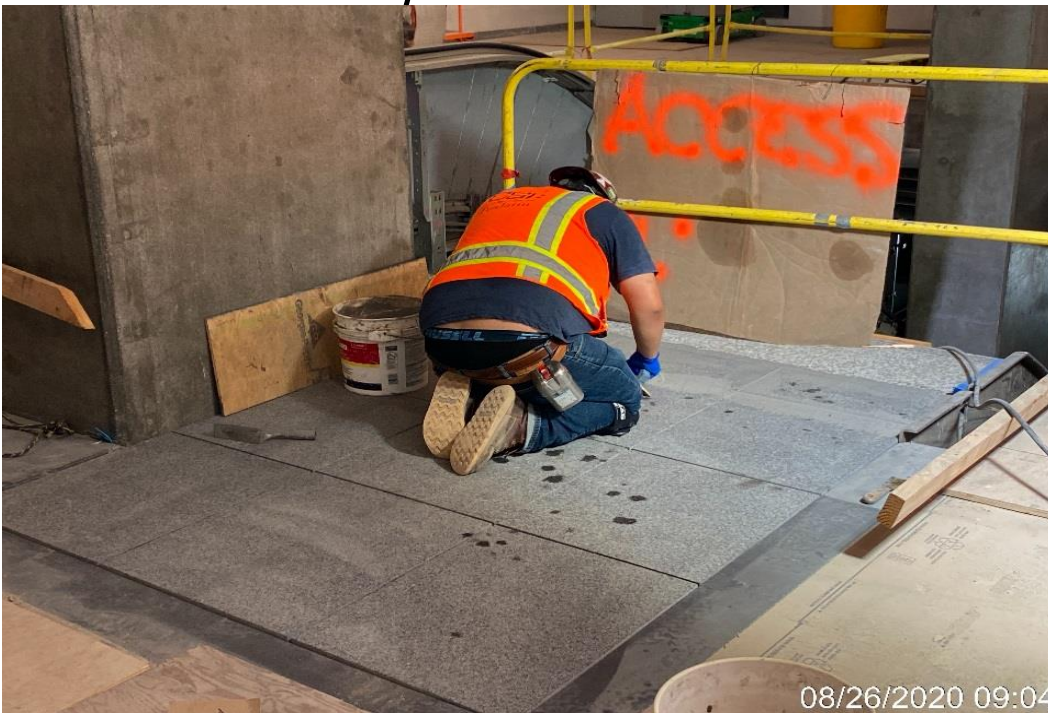


LEIMERT PARK STATION – Resume base grading/compacting throughout the plaza level.



LEIMERT PARK STATION – Installing granite pavers to the base landings of Staircases 2&3 at the intermediate level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Grouting granite pavers for the base landings of Staircase #3 at the concourse level.

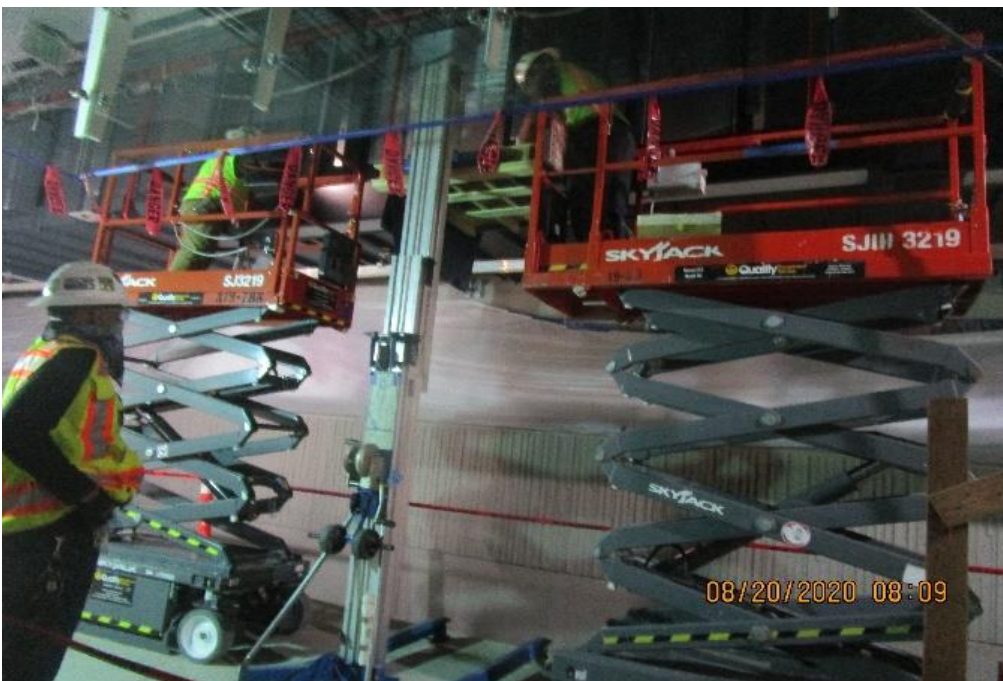


LEIMERT PARK STATION – Anchoring ETEL/PTEL podium enclosures at the concourse level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Installing edge lights to the down stand support poles on the southbound side of the platform level.



LEIMERT PARK STATION – Applied caulking sealant for the granite edges between the main entrance staircases and elevators.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

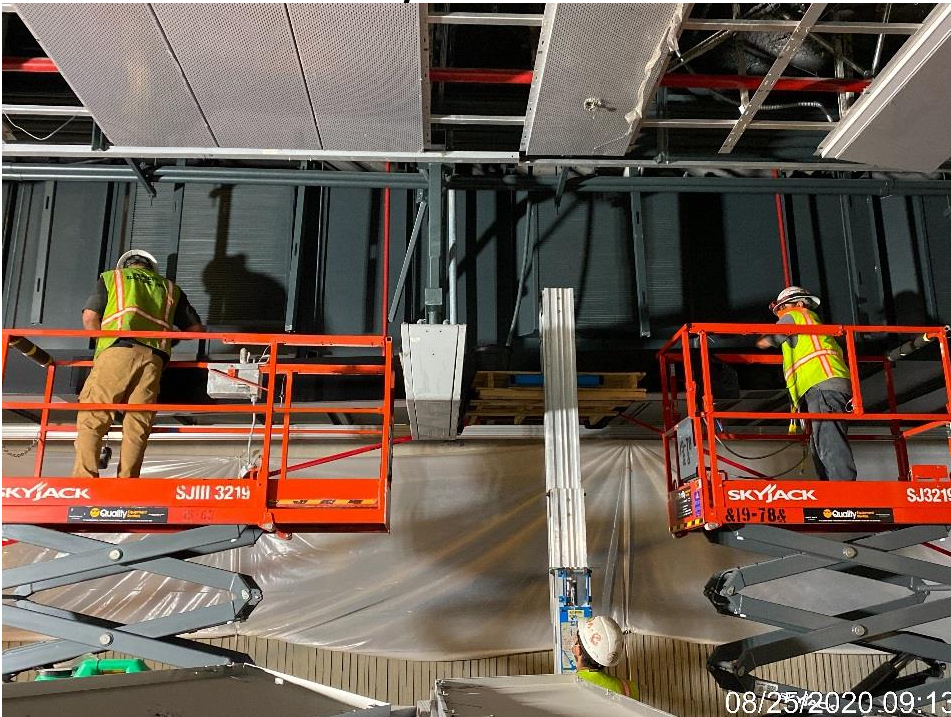


LEIMERT PARK STATION – Continue installing edge lights to the down stand support poles on the southbound side of the platform level.



LEIMERT PARK STATION – Continue installing edge lights to the down stand support poles on the northbound side of the platform level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Continue installing edge lights to the down stand support poles on the northbound side of the platform level.

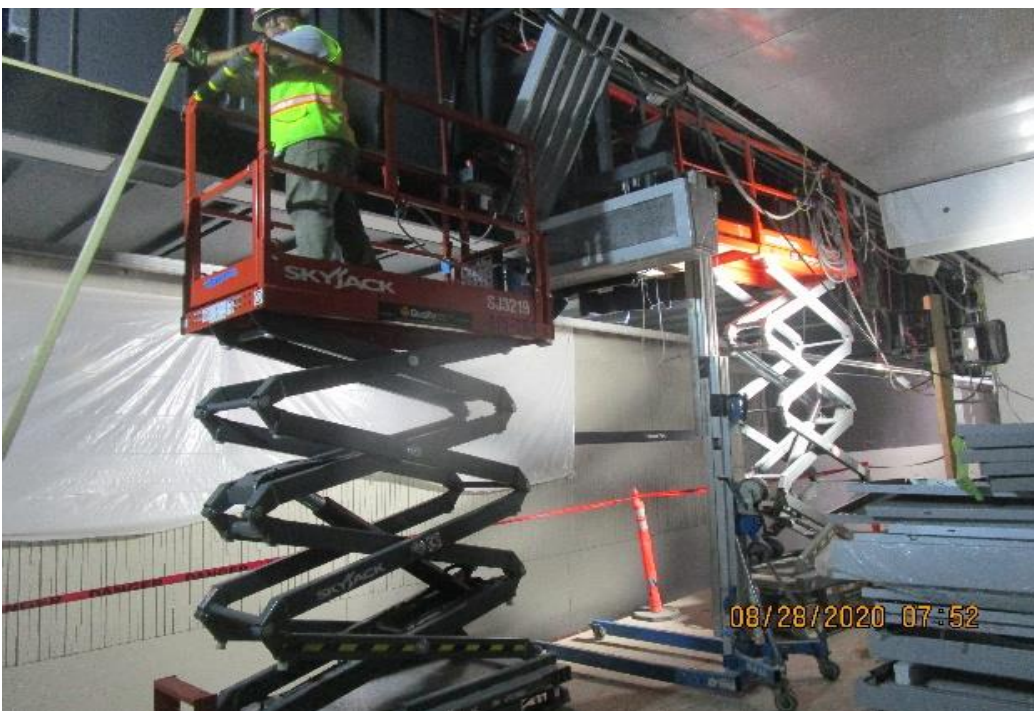


LEIMERT PARK STATION – Continue installing edge lights to the down stand support poles on the northbound side of the platform level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Continue installing edge lights to the down stand support poles on the northbound side of the platform level.



LEIMERT PARK STATION – Continue installing edge lights to the down stand support poles on the northbound side of the platform level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Continue installing edge lights to the down stand support poles on the northbound side and tested lighting for the southbound at the platform level.



LEIMERT PARK STATION – Continue installing edge lights to the down stand support poles on both the north and southbound sides of the platform level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Grouting granite pavers on the base landing of Staircase #4 at the platform level.

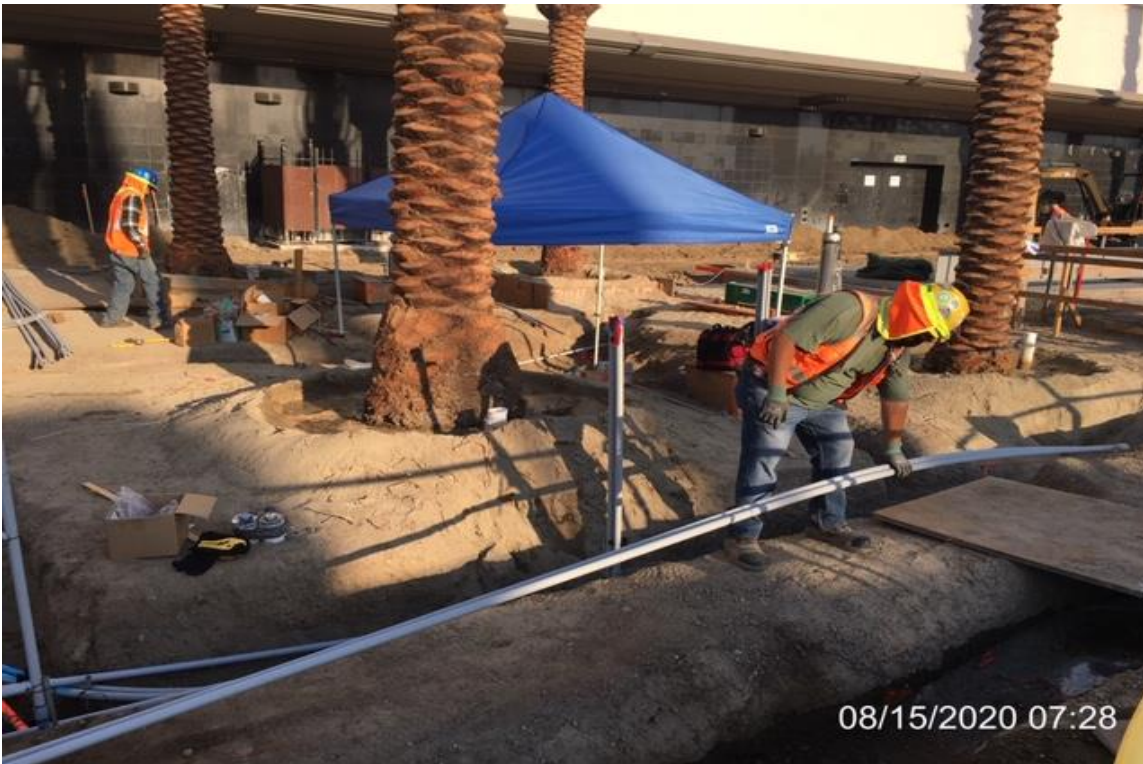


LEIMERT PARK STATION – Installing LCD/LED variable messaging sign monitors at the platform level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Installing ceiling light fixtures at the platform level.



MLK STATION – WSCC electricians installing conduit for power, comm and data in trenches.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK STATION – LKC pulling Radiax cable and installing clicks.



MLK STATION – WSCC crew prepping area and examining artwork at platform prior to applying fogging.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK STATION – WSCC welding plates onto Down Stands at MLK.



MLK STATION – Dynalectric installing 2” AT&T conduit at MLK.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK STATION – Dynalectric measuring for Seismic Racks MLK.



MLK STATION – WSCC ironworkers welding down stands on SB side of platform.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK STATION – WSCC crew backfilling and compacting AT&T encased trench.



MLK STATION – MLK Plaza (SW) Continued underground electrical rough in (14) 1” PVC conduit to future PB for lighting circuits.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK STATION – WSCC crew demoing and removing concrete from walkway.

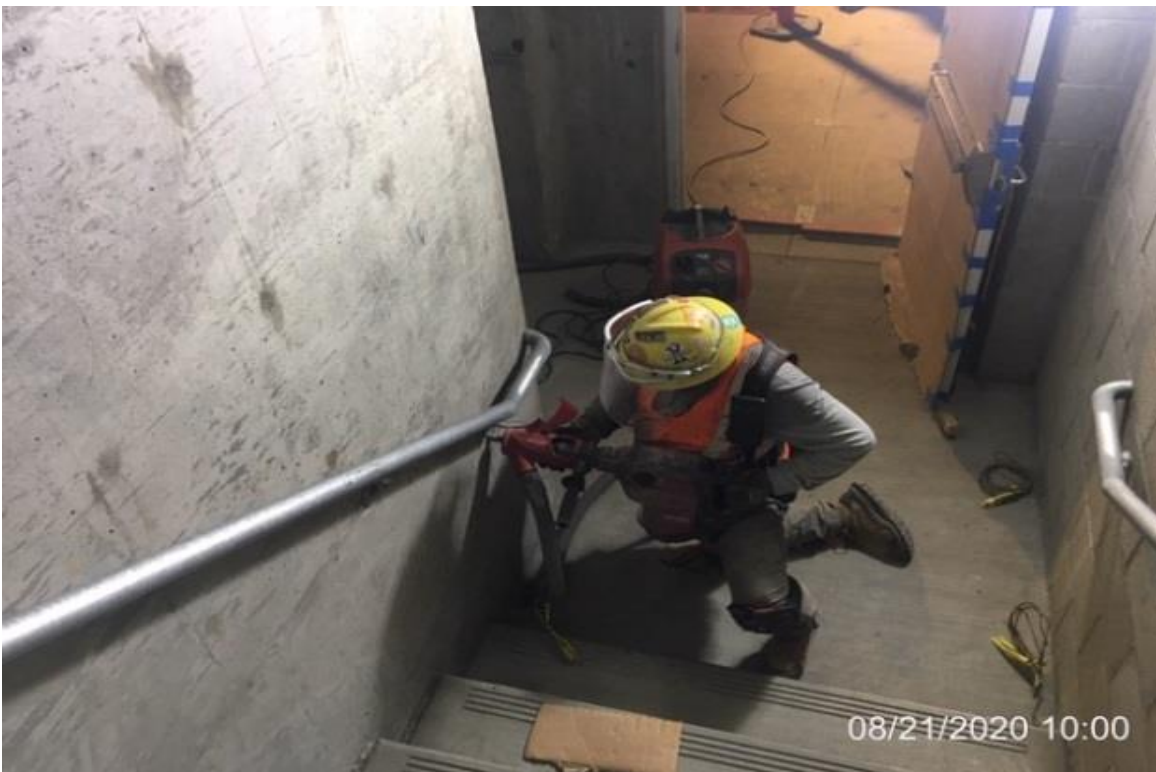


MLK STATION – WSCC ironworkers welding down stands on SB side of platform.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

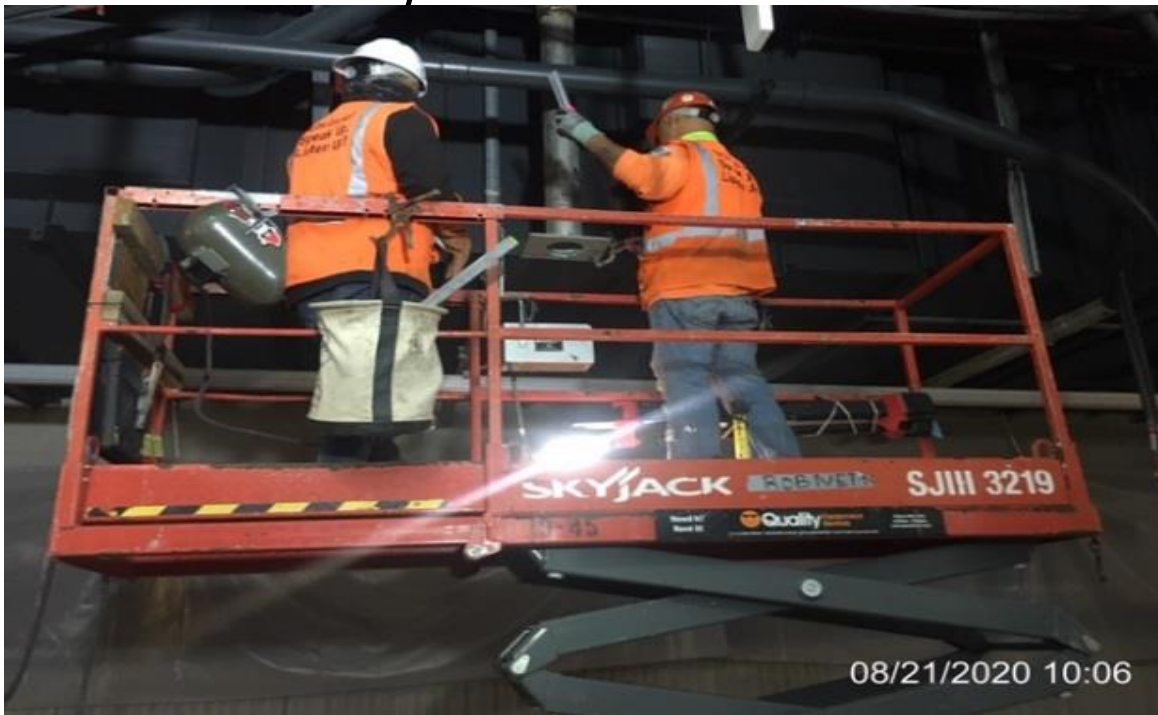


MLK STATION – Aux Power (N) C132, MCC1/N, CIC1/N Pulling damper power & control wiring to LCS for EVF-7-122.



MLK STATION – WSCC laborers drilling for ground wires at all staircases throughout station.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

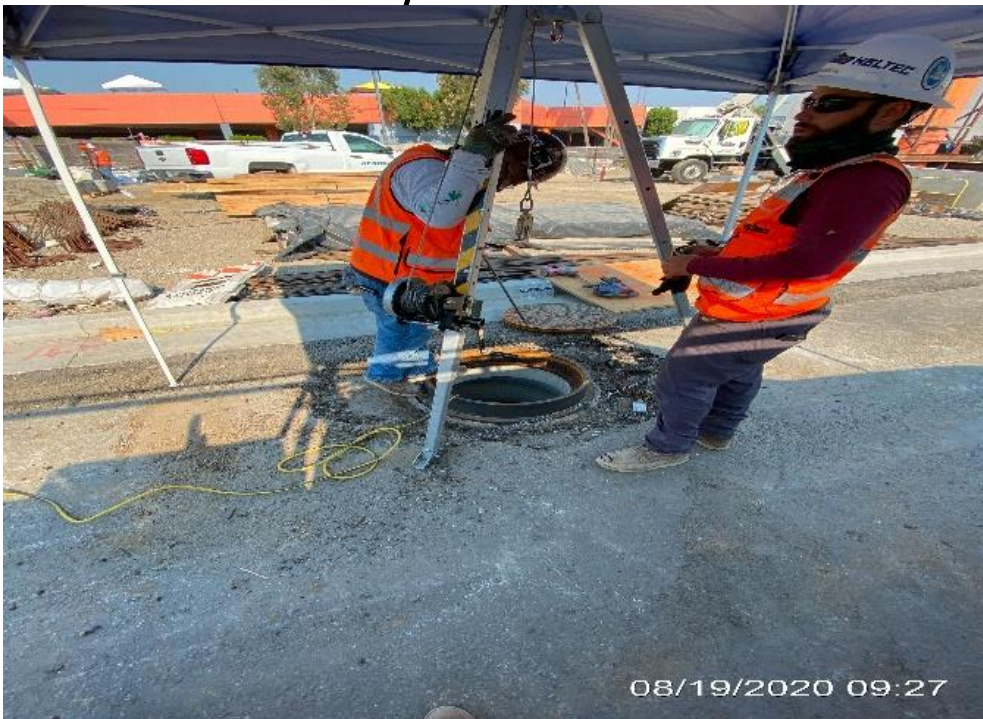


MLK STATION – WSCC ironworkers installing bottom plates to downstands.



MLK STATION – EM Fan (s) C102, Pulling jumpers (#14`S RHW-2 & #10 Gnd) TD-7-321 limit switches & continuity testing.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK STATION – Installing steel steps inside Manhole #13 at the plaza level.



MLK STATION – Installing steel steps inside Manhole #19 at the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK STATION – Installing steel steps inside Manhole #15 at the plaza level.



MLK STATION – Installing lid and risers inside Manhole #18 at the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK STATION – Removing curb and gutter for restoration and placing concrete on northbound Crenshaw Blvd between Stocker St. and MLK Blvd.



MLK STATION – Continue installing conduit for landscape lighting throughout the plaza level.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK STATION – Continue installing conduit for landscape lighting throughout the plaza level.



MLK STATION – Continue installing conduit for landscape lighting throughout the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK STATION – Backfilling concrete landscape conduit duct banks trenches on the east side of the plaza level.

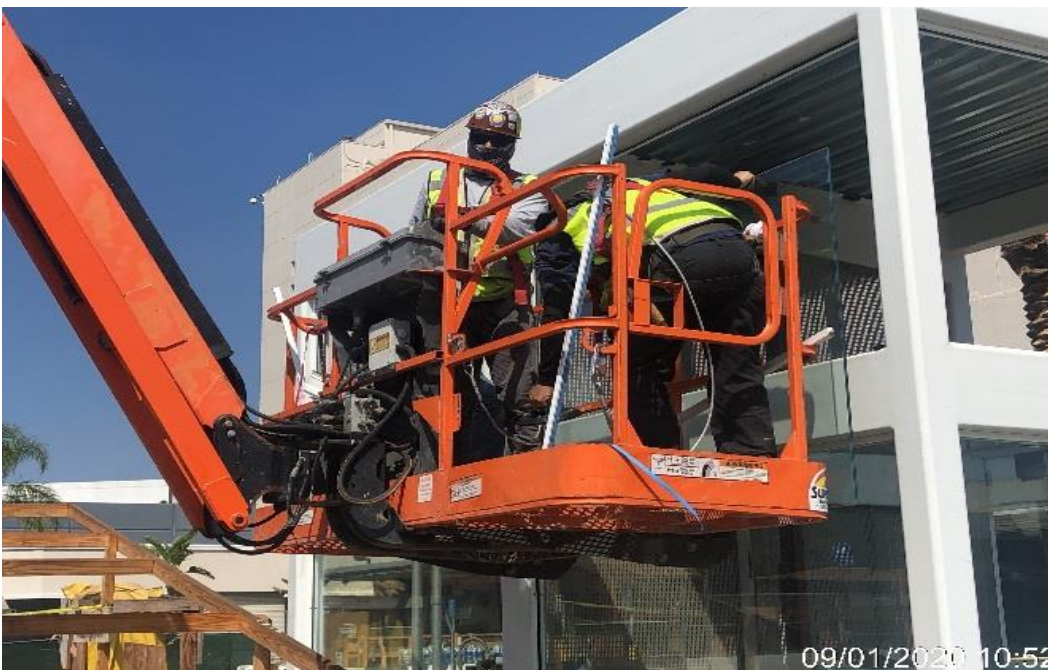


MLK STATION – Installing glass hardware in preparation for glass panel installation to Elevators 1&2 at the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK STATION – Continue installing glass hardware in preparation for glass panel installation to Elevators 1&2 at the plaza level.

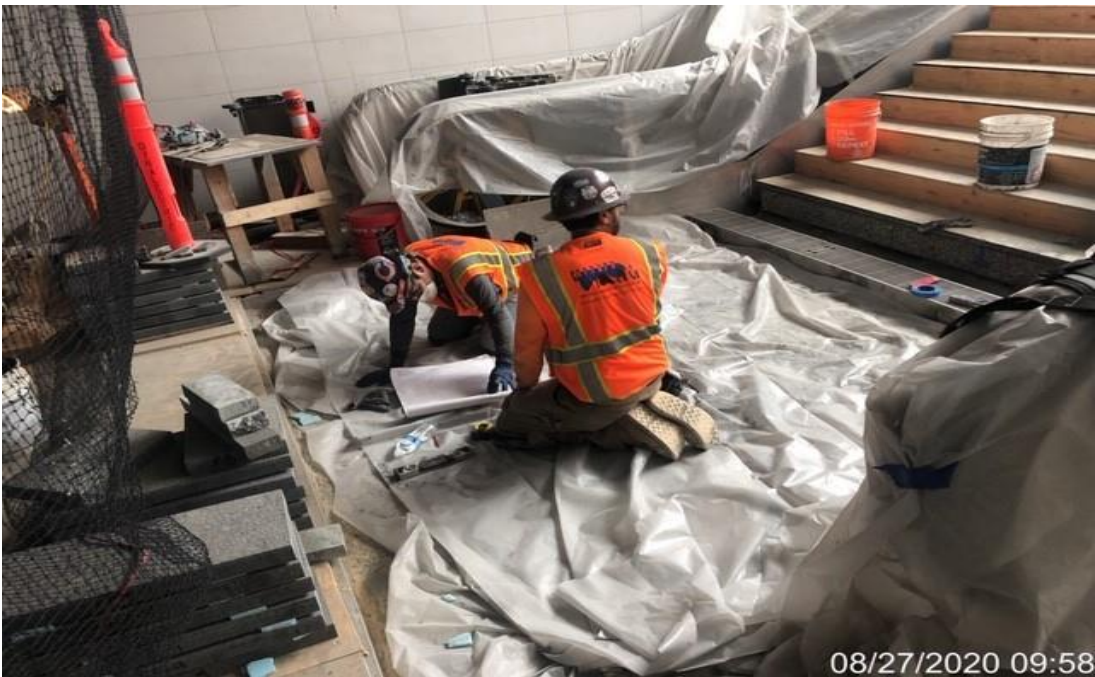


MLK STATION – Continue installing glass hardware in preparation for glass panel installation to Elevators 1&2 at the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK STATION – Backfilling/compacting walkway adjacent to Mall building at the plaza level.



MLK STATION – Setting granite pavers for installation at the bottom landing of Staircase 1.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK STATION – Installing granite pavers to the bottom landing of Staircase 1



MLK STATION – Continue installing granite pavers to the bottom landing of Staircase 1

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK STATION – Preparing and laying out for granite paver installation for the base landings of Staircases 2&3 at the concourse level.

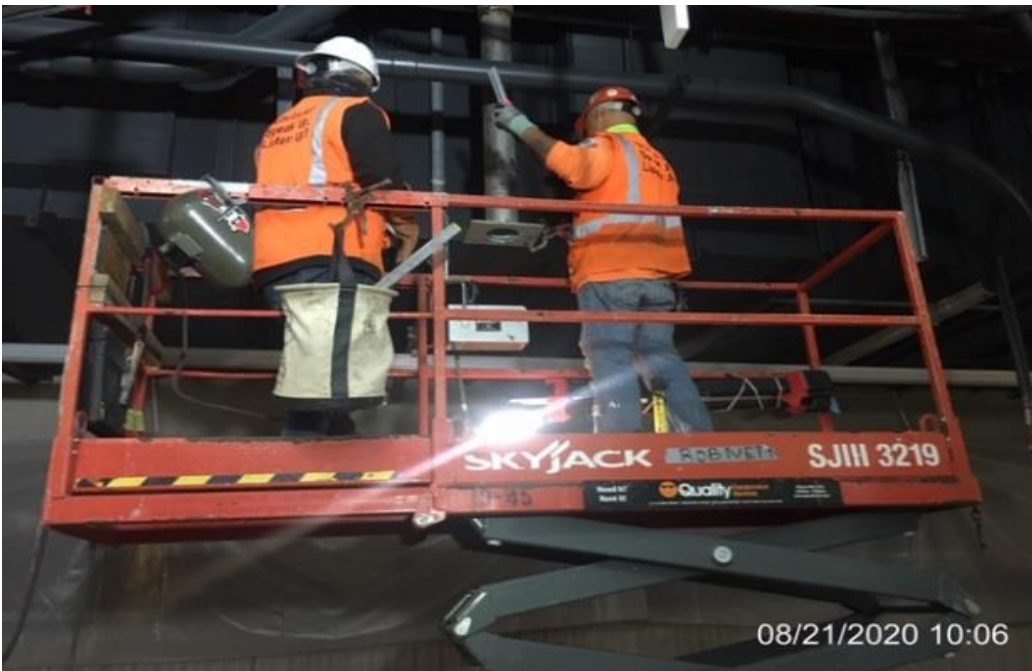


MLK STATION – Installing granite pavers to the base landings of Staircases #2 at the concourse level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

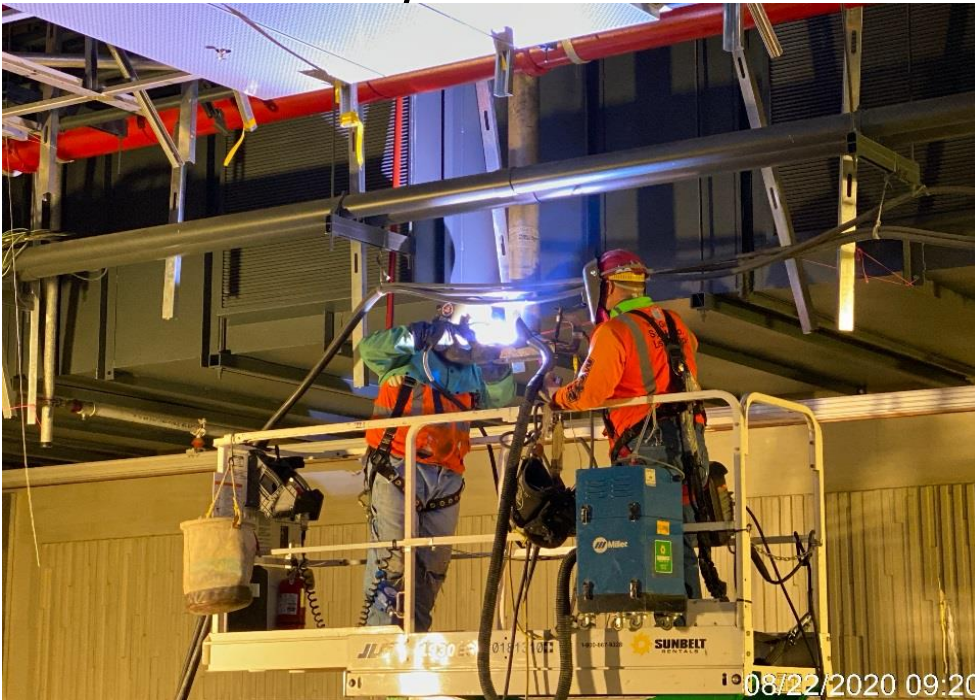


MLK STATION – Continue welding down stand support poles and sleeve joints on both the north and southbound sides of the platform level.



MLK STATION – Continue welding down stand support poles and sleeve joints on both the north and southbound sides of the platform level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK STATION – Welding edge plates to the down stand support poles on the northbound side of the platform level.



MLK STATION – Continue welding edge plates to the down stand support poles on both the north and southbound sides of the platform level.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK STATION – Continue welding edge plates to the down stand support poles on both the north and southbound sides of the platform level.



EXPO STATION - WSCC crew removing concrete slab from east side of yard.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – active irrigation line continues to soak north yard.



EXPO STATION– Keller water testing grout boxes and grouting at track level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION– WSCC carpenters building formwork for air exhaust shaft #2.



EXPO STATION – Dyna Electric terminating and splicing on SB wall.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

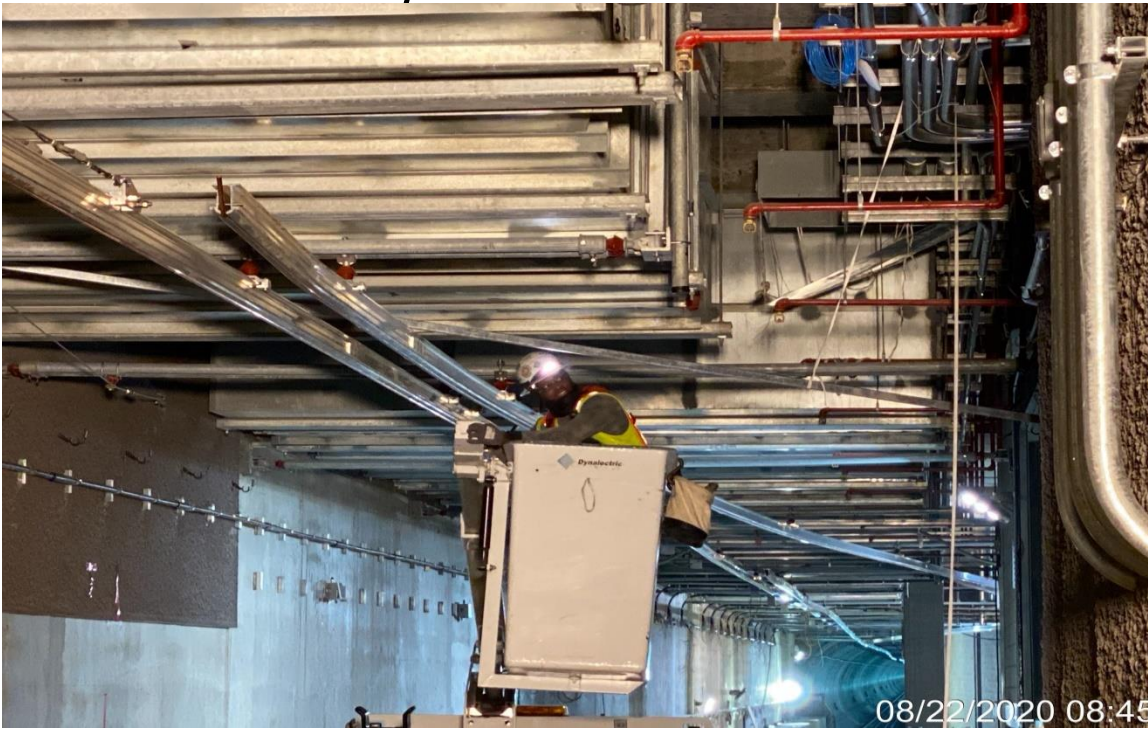


EXPO STATION SITE – WSCC crew demoing existing concrete slab and foundation for removal.



EXPO STATION SITE – WSCC crew demoing plinths that do not meet strength requirement

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION SITE – Dyna Electric installing FRP Supports at Expo Station.



EXPO STATION SITE – WSCC excavating for conduit at Expo Yard.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION SITE – WSCC crew excavating trench for electrical conduit.



EXPO STATION SITE – McMahon sandblasting HSS fascia of elevator #3 and #4 at platform level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION SITE – WSCC crew excavating trench for AT&T conduit.



EXPO STATION SITE – Ironworkers installing metal roof decking on elevator structure #1 and #2.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION SITE – Finishers chipping at vent shaft #3 to correct height for grating.



EXPO STATION – Continue demolishing/removing/hauling of existing concrete slab at the northern lot area.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Continue demolishing/removing/hauling of existing concrete slab at the northern lot area.



EXPO STATION – Continue demolishing/removing/hauling of existing concrete slab at the northern lot area.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

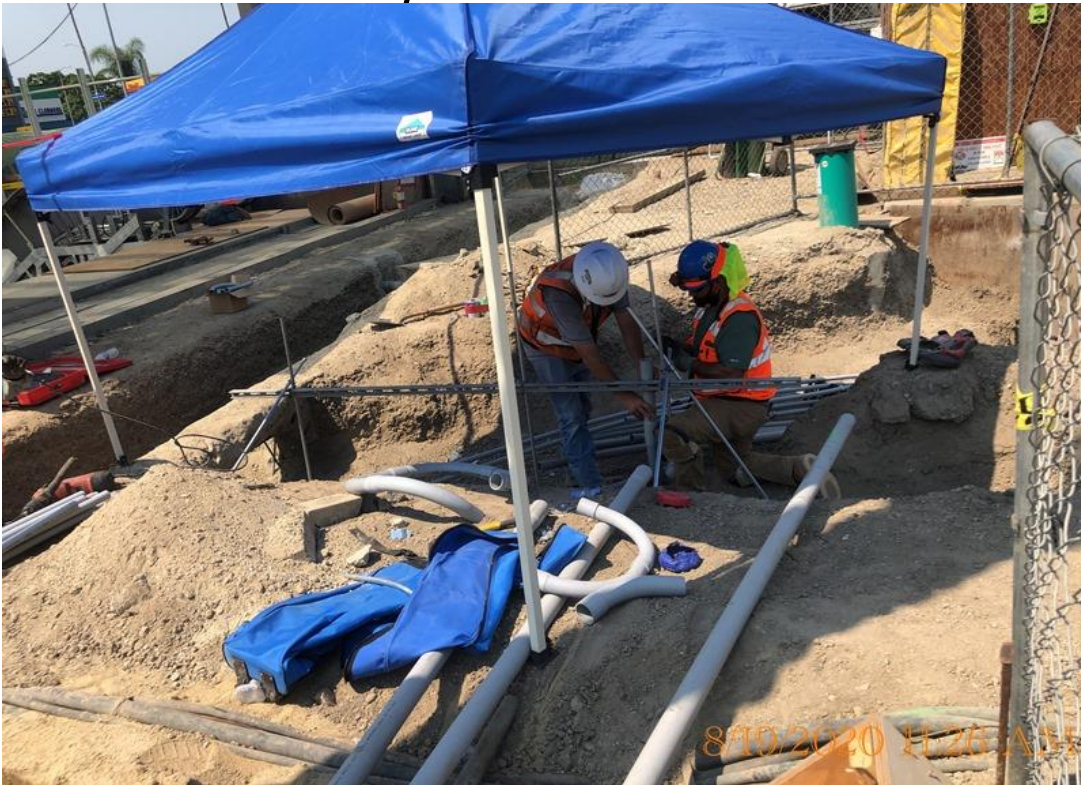


EXPO STATION – Excavating for the grand pylon foundation on the northwest corner of the plaza level.

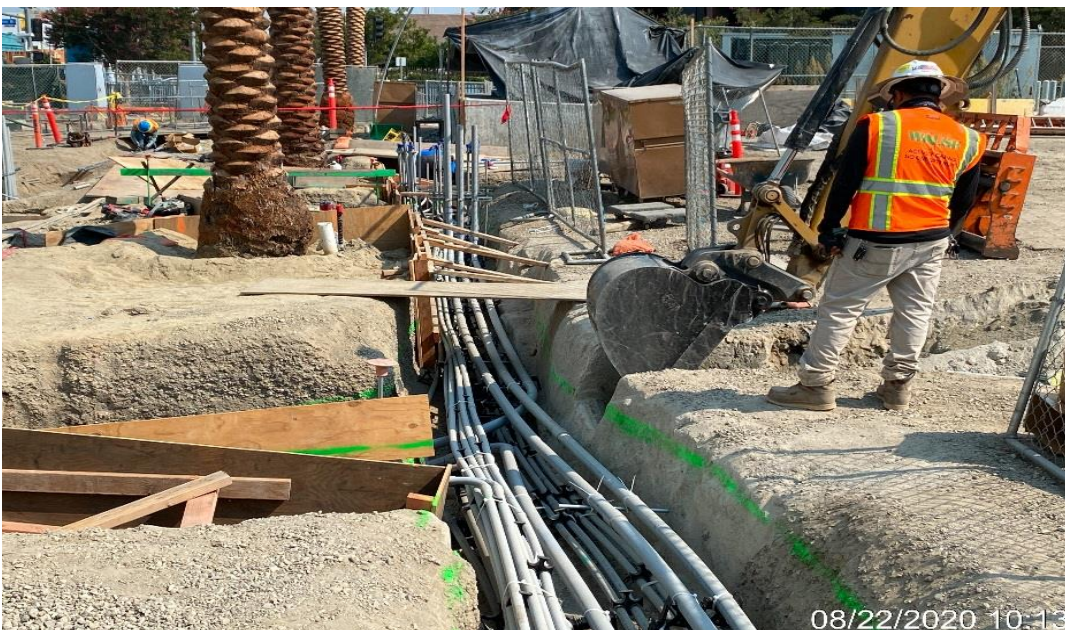


EXPO STATION SITE– Compacting grand pylon foundation on the northwest corner of the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Continue installing conduit for landscape lighting throughout the plaza level.



EXPO STATION – Continue installing conduit for landscape lighting throughout the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Placed and encased the landscape conduit duct bank trenches with concrete on the east side of the plaza level.



EXPO STATION – Continue installing conduit for landscape lighting on the west side trenches of the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Backfilling and compacting trenches on the east side of the plaza level.



EXPO STATION – Continue installing conduit for landscape lighting at the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Continue installing conduit for landscape lighting on the west side trenches of the plaza level.



EXPO STATION – Setting formwork in preparation for concrete encasement for the west side conduit landscape trenches of the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

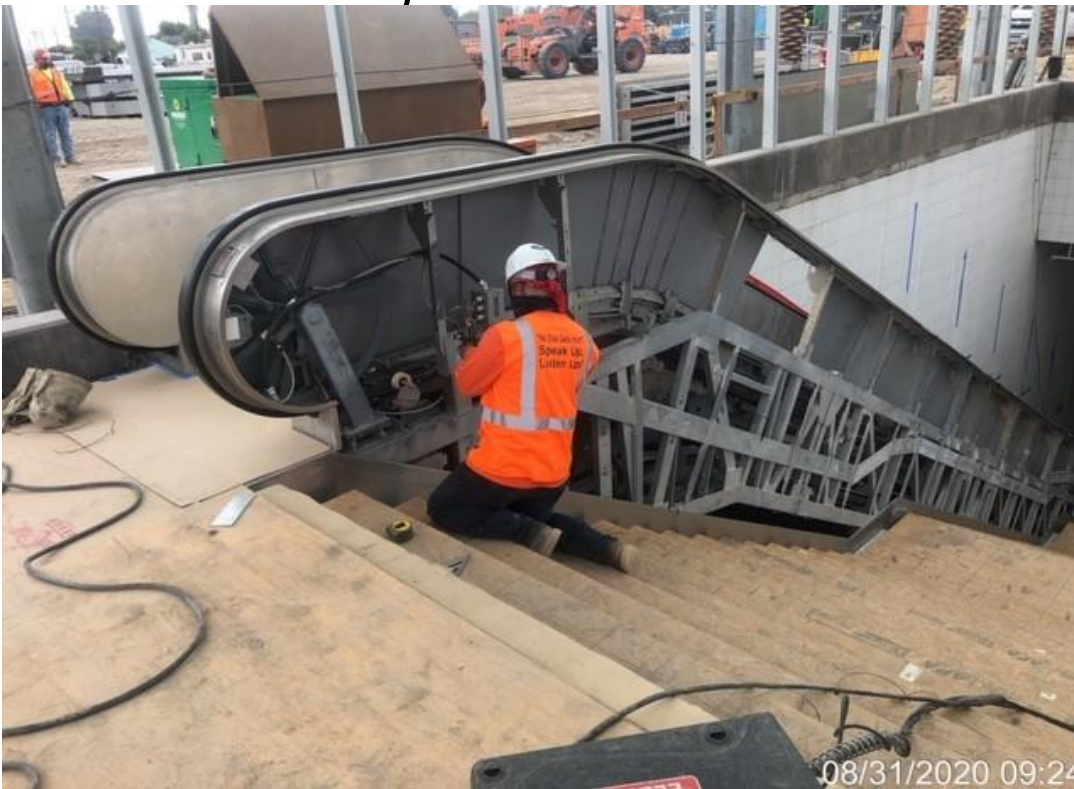


EXPO STATION – Continue installing metal roofing deck on top of Elevators 1&2 at the plaza level.



EXPO STATION - Setting supports for floor drainage at the main entrance portal of the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Installing backer for handrail support for Escalators 1&2 at the main entrance portal of the plaza.



EXPO STATION – Installing bent plates to Escalators 1&2 at the main entrance portal of the plaza



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Anchoring grating panels to the Fresh Air Intake Shaft at the plaza.

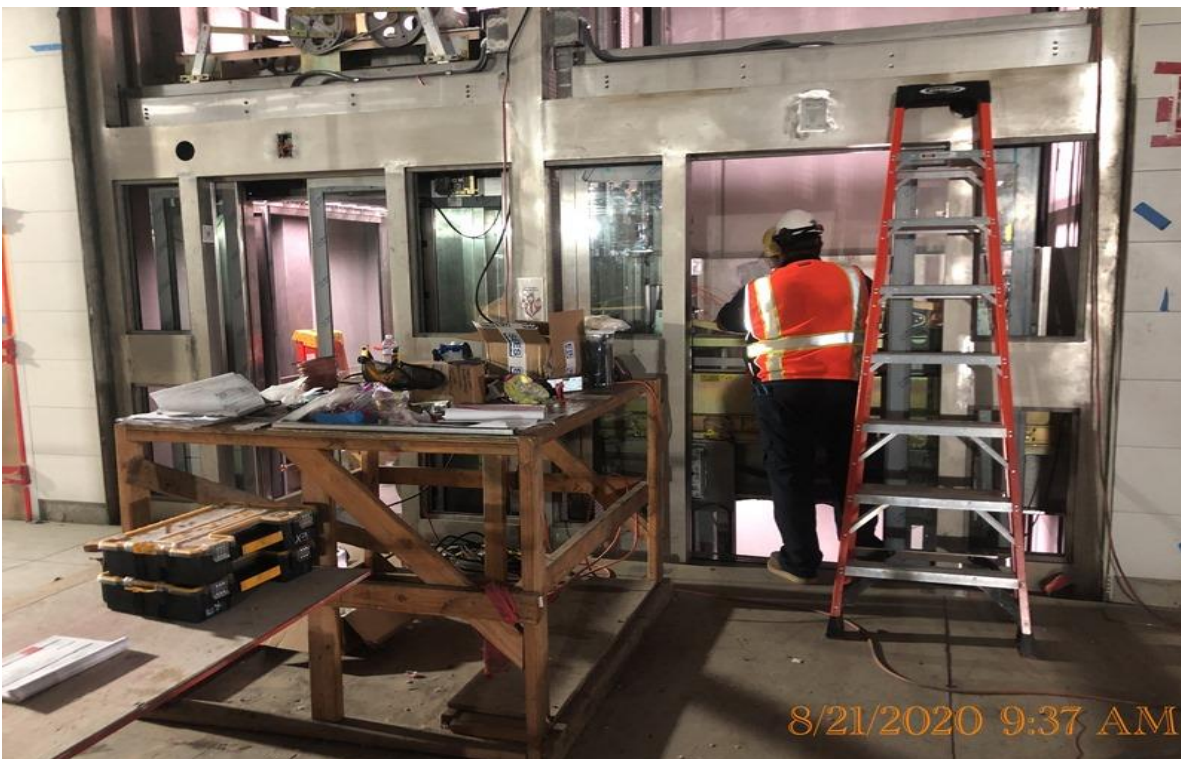


EXPO STATION – Continue final wiring and adjustments for all 4 Elevators at the concourse level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Continue final wiring and adjustments for all 4 Elevators at the concourse level.



EXPO STATION – Continue final wiring and adjustments for all 4 Elevators at the concourse level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Continue final wiring and adjustments for Elevators 1&2 at the concourse level.



EXPO STATION – Modifying and installing ceiling panels at the concourse level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

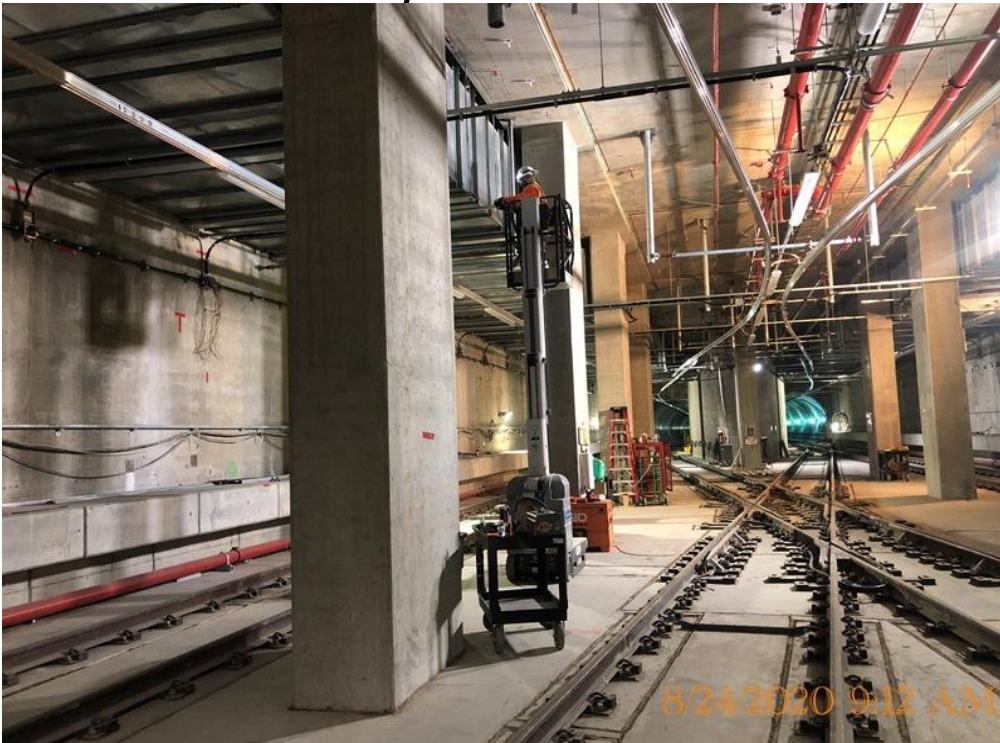


EXPO STATION – Continue installing supports and fixtures for the crossover lighting at the invert level



EXPO STATION – Continue installing supports and fixtures for the crossover lighting at the invert level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Continue installing supports and fixtures for the crossover lighting at the invert level.



EXPO STATION – Continue installing supports and fixtures for the crossover lighting at the invert level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Continue installing supports and fixtures for the crossover lighting at the invert level.



EXPO STATION – Continue installing supports and fixtures for the crossover lighting at the invert level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Continue installing supports and fixtures for the crossover lighting at the invert level.

## **SEGMENT C:**

- Rework of plinth gap to invert continues throughout the Segment.
- Rework to replace damaged switch points is in progress.
- Rework of VHRF fasteners is still required due to missing shims and incorrect installation.
- Rework of plinths is still required due to damage by chipping and cracks.
- Incomplete plinth work.
- Rework of the Top-of-Rail is still required due to gouges in the rail.
- Replacement of plinths with failed inserts continues; awaiting pull test for new inserts.

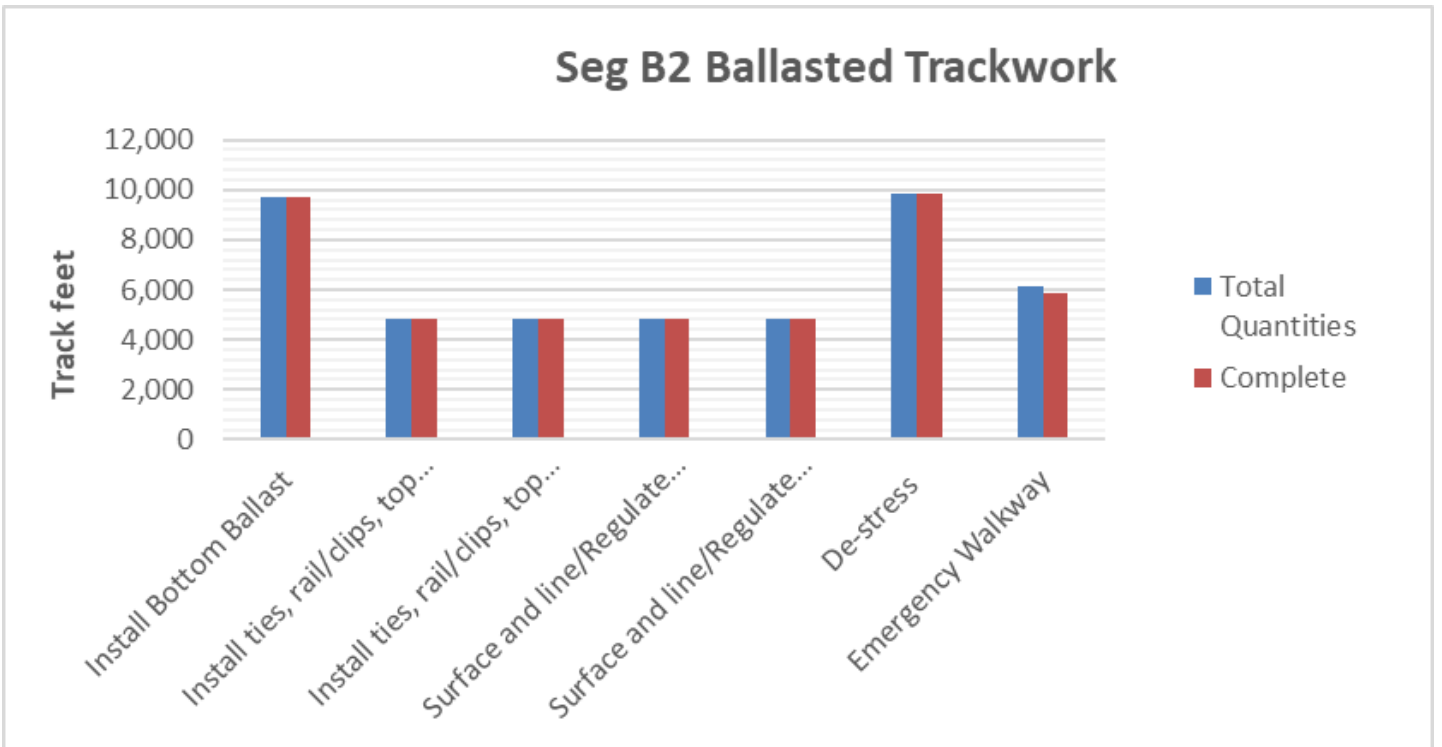
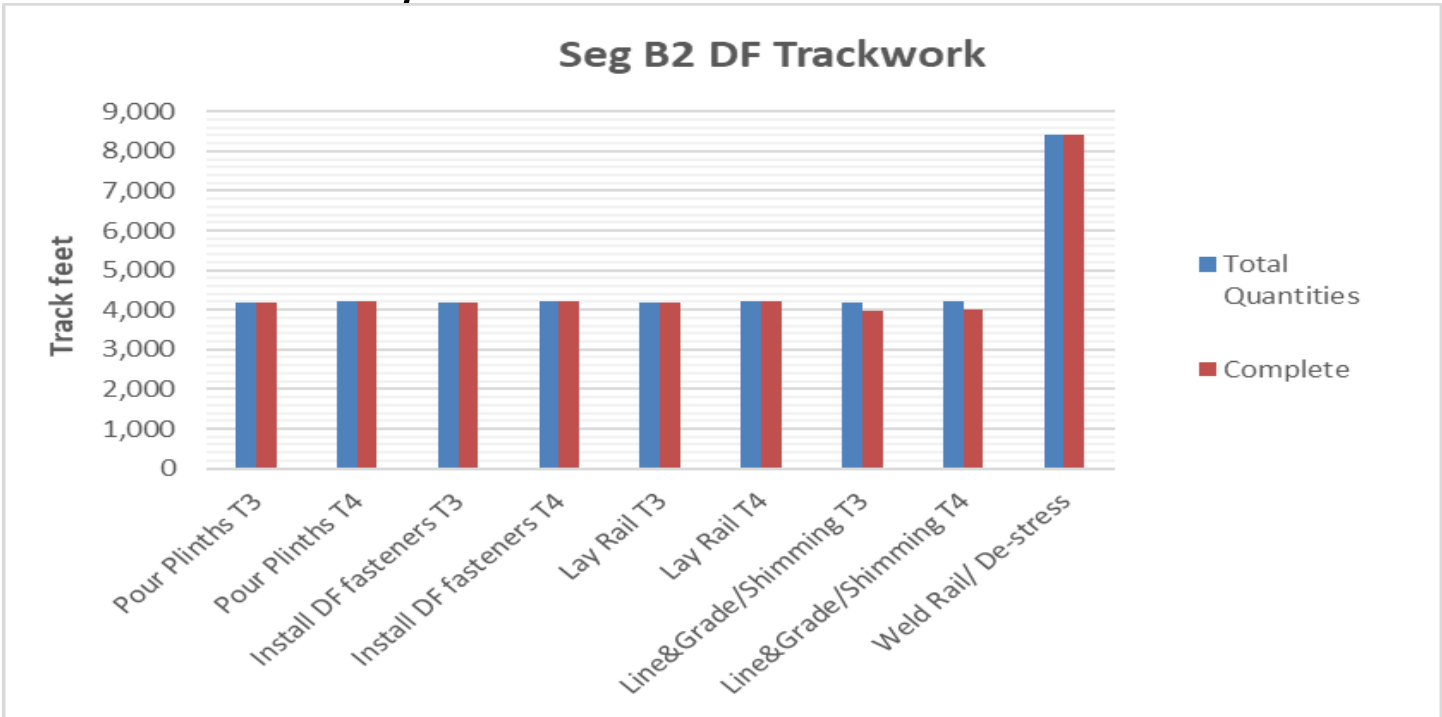
# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

## PROJECT WIDE TRACKWORK PROGRESS

	TRACK TYPE	ACTIVITY	TRACK FEET/QUANTITY	INSTALLED TO DATE	REMAINING	ACTIVITY % PROGRESS	Potential Rework *	Punchlist **
								(Complete/Incomplete)
<b>SEGMENT B2</b>	<b>DF (8,408 TF)</b>	Pour Plinths T3	4,193	4193	0	100.00%		
		Pour Plinths T4	4,215	4,215	0	100.00%		
		Install DF fasteners T3	4,193	4193	0	100.00%	*	
		Install DF fasteners T4	4,215	4215	0	100.00%	*	
		Lay Rail T3	4,193	4193	0	100.00%	*	
		Lay Rail T4	4,215	4215	0	100.00%	*	
		Line&Grade/Shimming T3	4,193	3983	210	95.00%		INC
		Line&Grade/Shimming T4	4,215	4004	211	94.99%		INC
		Weld Rail/ De-stress	8,408	8408	0	100.00%		
		Emergency Walkway						
	Acceptance for turnover to subcontractors	yes/no	no					
	<b>BALLASTED TRACKWORK (9681 TF including grade crossings)</b>	Install Bottom Ballast	9,681	9681	0	100.00%	*	INC
		Install ties, rail/clips, top ballast -T3	4,836	4836	0	100.00%	*	
		Install ties, rail/clips, top ballast -T4	4,845	4845	0	100.00%	*	
		Surface and line/Regulate T3	4,836	4836	0	100.00%	*	
		Surface and line/Regulate T4	4,845	4845	0	100.00%	*	
		De-stress	9,861	9861	0	100.00%		
		Emergency Walkway	6148	5840	308	94.99%		
	Acceptance for turnover to subcontractors	yes/no	no					
	<b>SPECIAL TRACKWORK</b>	Ballasted Single Crossover (U1/U2, V1/V2)	2	2	0	100.00%		INC
Thermite Welds		56	56	0	100.00%			
Insulated Joints (I's)		12	12	0	100.00%	*	INC	
Acceptance for turnover to subcontractors	yes/no	no						
<b>GRADE X-ING</b>	Construct Crossing (48th, 50th, 52nd, 54th, 57th, 59th, Slausen)	7	6	1	85.71%			
<b>SEGMENT C</b>	<b>DF (16,756 TF)</b>	Pour Plinths T3	8,385	8385	0	100.00%	*	INC
		Pour Plinths T4	8,371	8371	0	100.00%	*	INC
		Install DF fasteners T3 (VHRF installed - pending NCR)	8,385	7965	420	94.99%	*	
		Install DF fasteners T4 (VHRF installed - pending NCR)	8,371	7952	419	94.99%	*	
		Lay Rail T3	8,385	8385	0	100.00%	*	
		Lay Rail T4	8,371	8371	0	100.00%	*	
		Line&Grade/Shimming T3	8,385	7546	839	89.99%	*	INC
		Line&Grade/Shimming T4	8,371	7533	838	89.99%	*	INC
		Emergency Walkway						
		Acceptance for turnover to subcontractors	yes/no	no				
	<b>SPECIAL TRACKWORK</b>	DF Double Crossover (Diamond)	1	1	0	100.00%	*	
		Line&Grade/Shimming	1	1	0	100.00%	*	
		Thermite Welds	56	56	0	100.00%		
		Insulated Joints (I's)	20	20	0	100.00%	*	
		Acceptance for turnover to subcontractors	yes/no	no				
DF =	Direct Fixation							
T3 =	Track 3							
T4 =	Track 4							
TF =	Track Feet							
*	Potential for rework based on recent guideway survey. Total impact of rework is unknown at this time.							
**	Punchlist Complete/Incomplete: Indicates the completion (COMP) or Incompletion (INC) of identified punchlist items							



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

