

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

April 15, 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 4/15 – 4/30  
(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 Note: General Note: Metro Track Inspector is performing punchlist walk with WSCC QC Inspector beginning in Segment A to confirm completed issues and identify remaining open issues.

The next phase of the Green Line Tie-in is scheduled to be performed over three (3) weekends: 5/1/2020 to 5/3/2020, 5/15/2020 to 5/17/2020, and 6/19/2020 to 6/21/2020.

Repairs to Emergency walkway insert plates continues through all segments; Ballast repair is started at the investigation areas of Wall 202; Plinth replacement due to failed insert pull tests is started in Segment C.

### **Previous Issues unresolved:**

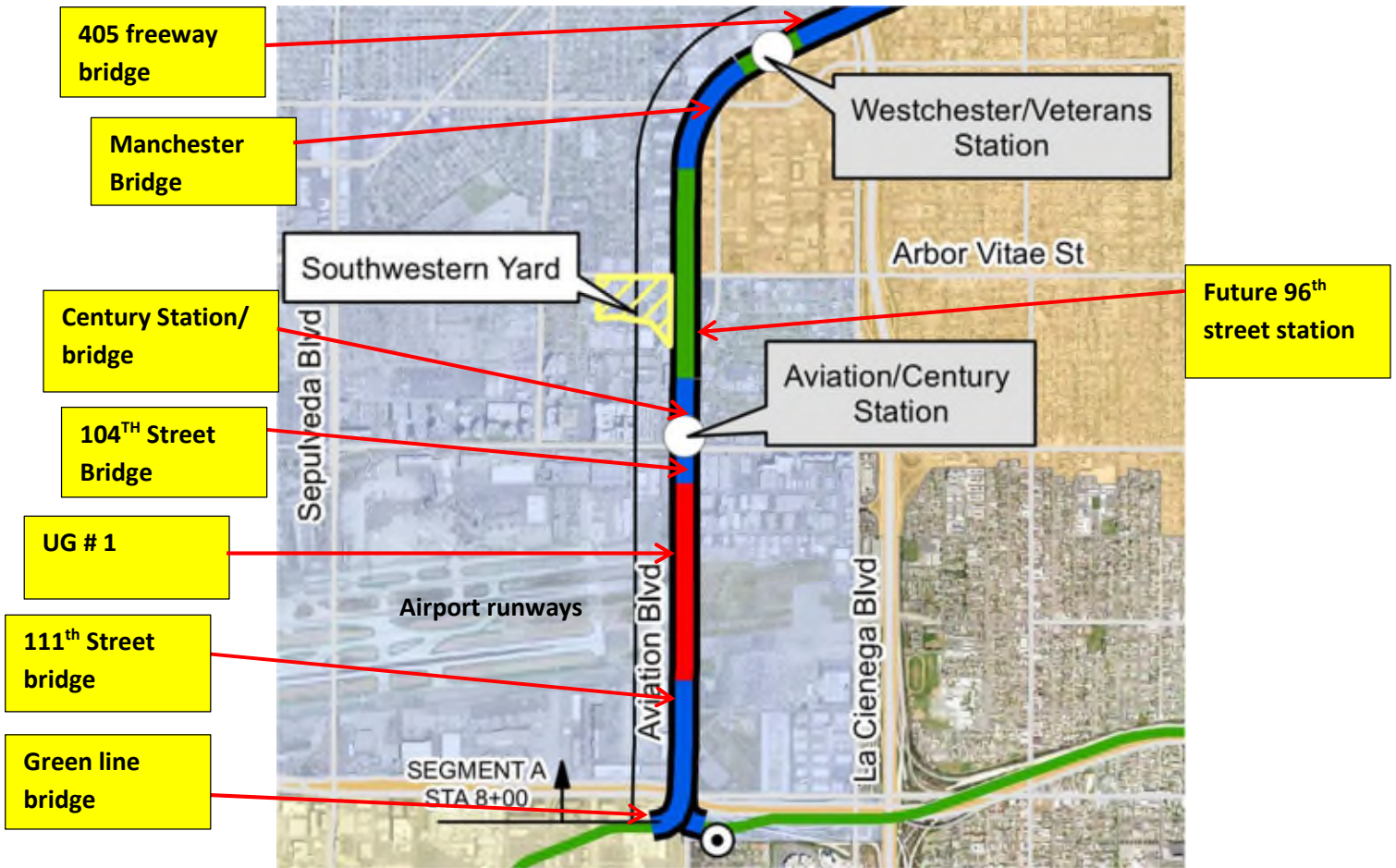
WSCC has completed the field work for the investigation of MSE Wall #202 where track misalignment has occurred. A geotechnical report is in process of being prepared and a repair plan will be prepared by WSCC upon receipt of the final report. WSCC also continues investigating the process to repair the gap between the plinth ends and the invert slab throughout the project limits and continues the relocation of incorrectly placed IJs in Segment B2.

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

- Rework is still required for guard rail which had been installed with not-per-plan OTM
  - Rework is still required for several temporary Insulated Joints (IJs) from the Green Line Tie-in across the Imperial Bridge to Segment A Guideway STATION 13+00
  - Rework is still required for the inserts for the Movable Point Frog STA 13+99
  - Rework is completed for the plinths and the reinstallation of the Movable Point Frog on the Green Line Wye STA 13+99.
- Next phase of Green Line Tie-in is scheduled to begin the weekend of May 1, 2020 through May 3, 2020.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

## Segment A



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

Guideway - GL Wye NBW 2310 STA 10+36 Metro-WSCC site walk for rail profile radius verification.

Guideway - Site walk for field verification of rail profile radius on NB1300 track STA 12+56 at GL Wye

RMA-Site Scan inspector on SB2300 PT STA 12+92 GL Wye, ex-ray of rebar dowel location to invert (looking north)

WSCC & RMA- Site Scan, ex-ray of ends of plinths at GL Wye (looking east)

WSCC & Metro WW inspectors at MPF, verifying overall condition of tracks at GL Wye STA 13+90 (looking south)

WSCC QC track inspector, verifying 300 FT. lbs. of torque on DF fastener bolts on PTSB 2300 at GL Wye STA 12+95

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Florence/Hindry – Traffic signal pull box and conduit relocation at Hindry.



Florence/Hindry – AC being placed around the Hindry Station sump pump cleanout on Florence.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Florence/Hindry – WSCC QC track inspector verifying cross level on #3 NB track at Hindry grade crossing for BIM360 inturnal punch list updates (looking southeast)



Florence/Hindry – WSCC QC track inspector verifying cross level on #4 NB track at Hindry grade crossing for BIM360 inturnal punch list updates (looking southeast)

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



HINDRY STATION- Traffic signal pull box and conduit relocation at Hindry.



HINDRY STATION- AC being placed around the Hindry Station sump pump cleanout on Florence.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**HINDRY STATION-** Hindry Station platform #4 NB track, being covered with plywood sheets (looking south)



**HINDRY STATION-** WSCC installing protective plywood sheets onto newly placed colored concrete NB #4 Hindry station platform (looking northeast)



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**HINDRY STATION-** WSCC leveling treaded timbers on SB #3 track, at Hindry station platform rework.



**HINDRY STATION-** WSCC removed ballast around treaded timber ties to level them equaling to Comon ties at Hindry station platform SB #3 track rework

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



HINDRY STATION- WSCC hand dressing shoulder ballast & leveling treaded timbers on #3SB track throughout Hindry station platform (looking south) rework



HINDRY STATION- WSCC Place protective ply wood on Hindry platform.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



HINDRY STATION- WSCC QC track inspector verifying cross level on #4 NB track at Hindry grade crossing for BIM360 internal punch list updates (looking southeast)



HINDRY STATION- WSCC Qc inspector verifying cross level on SB #3 track at Hindry grade crossing for BIM360 internal punch list updates (looking west)

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Florence/Ivy – WSCC & Metro inspector's gathering data for rail gouges at Ivy Ave grade crossing STA 189+00 (looking north)



Florence/Ivy – ACE Fence Placed fence panels at Florence east of Ivy crossing.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**Manchester Bridge** - Manchester Bridge NB #4 track STA 121+45 no condition changes for disturbed ballast on Metro's Punch list, item #250 in Segment A



**Manchester Bridge** - WSCC Make Krail removals at Manchester and Florence.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**Manchester Bridge** – Moving K rail and clean up to start the demo at Manchester.



**Manchester Bridge** – Compaction of the base for the median and #1 WB lane on Manchester.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Manchester Bridge – Placing base on Manchester.



Manchester Bridge – WSCC Slot pace trench at N/E CORNER of Manchester and Florence.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**Manchester Bridge** – WSCC Saw cut and remove street at N/E corner of Manchester and Florence.



**Manchester Bridge** – WSCC Sully Miller Paving 8” of AC at Manchester crossing.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**MANCHESTER STREET-** Moving K rail and clean up to start the demo at Manchester.



**MANCHESTER STREET-** Compaction of the base for the median and #1 WB lane on Manchester.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MANCHESTER STREET- Start of base placement this morning at Manchester.



MANCHESTER STREET- WSCC Slot pace trench at N.E COR of Manchester and Florence.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**MANCHESTER STREET- WSCC** Saw cut and remove street at N,E COR of Manchester and Florence.



**MANCHESTER STREET- WSCC** Sully Miller Paving 8" of AC at Manchester crossing.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Aviation/Century – Base grading at the Aviation Station.



Aviation/Century – Vacuum truck excavating light pole foundations at Aviation Station.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Aviation/Century – Formed light pole foundation at Aviation Station.



Aviation/Century - Building a rebar cage for the bollards at the Aviation Station.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Aviation/Century – Grading at the Aviation station.



Aviation/Century – Stripping light pole foundation forms at Aviation Station.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Aviation/Century – Setting rebar for the bollards at Aviation Station.



Aviation/Century – Base grading at the Aviation Station.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Aviation/Century – Painting the service building doors at the Aviation Station.



Aviation/Century – WSCC finalizing elevations on grout for emergency walkway crossing on SB #3 track STA 66+16 (looking southeast) Rework



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Aviation/Century – Placing base on the east side of the Aviation Station service building.



Aviation/Century – WSCC Form and place concrete for small retaining wall at S/WCOR of 111Th and Aviation.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Aviation/Century – Measurement of 66+inches from bottom of excavation hole to top of tie on SB #3 track STA 178+00 Segment B1 (looking north) Rework, This will need to be re-tamped – century



Aviation/Century – Parking Area West of Ticketing Looking East century station.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Aviation/Century – WSCC working on emergency walkway foundations Century-Aviation bridge SB #3 track STA 74+60 (looking west) Rework



Aviation/Century – WSCC repairing protective plywood on platform at Century-Aviation station (looking southeast)

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Aviation/Century – Removals for the sidewalk on the NW side of Aviation and 111th.



Aviation/Century – Traffic signal and street lighting conduit trenching on 111th and Aviation.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Aviation/Century – HCC, repairing cross levels on 10K1LH XO Century-Aviation Bridge NB # 4 track.



Aviation/Century – HCC installing Shim plates on 10K1LH XO on Century-Aviation bridge NB #4 track STA 70+50 (looking north) Rework

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Aviation/Century – Irrigation pipe installation at the Aviation Station yard.



Aviation/Century – Grading the subgrade at Aviation Station.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Aviation/Century – Metal stud framing at the Aviation Station ticket kiosk.



Aviation/Century – Abandoning a storm drain line at aviation Station.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Aviation/Century – Vacuum truck excavating light pole foundations at Aviation Station.



Aviation/Century – Irrigation pipe installation at the Aviation Station yard.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Aviation/Century – Metal stud framing at the Aviation Station ticket kiosk.



Aviation/Century – Base grading at the Aviation Station.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Aviation/Century – Painting the service building doors at the Aviation Station.



AVIATION/CENTURY- WSCC finalizing elevations on grout for emergency walkway crossing on SB #3 track STA 66+16 Century, Aviation bridge (looking southeast) Rework

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



AVIATION/CENTURY- Placing base on the east side of the Aviation Station service building.



AVIATION/CENTURY- WSCC Form and place conc for small retaining wall at S,WCOR of 111th and Aviation

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



AVIATION/CENTURY- Mesurment of 66+inches from bottom of excavation hole to top of tie on SB #3 track STA 178+00 Segment B1 (looking north) Rework,This will need to be re-tamped – century



AVIATION/CENTURY- Parking Area West of Ticketing Looking East century station.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

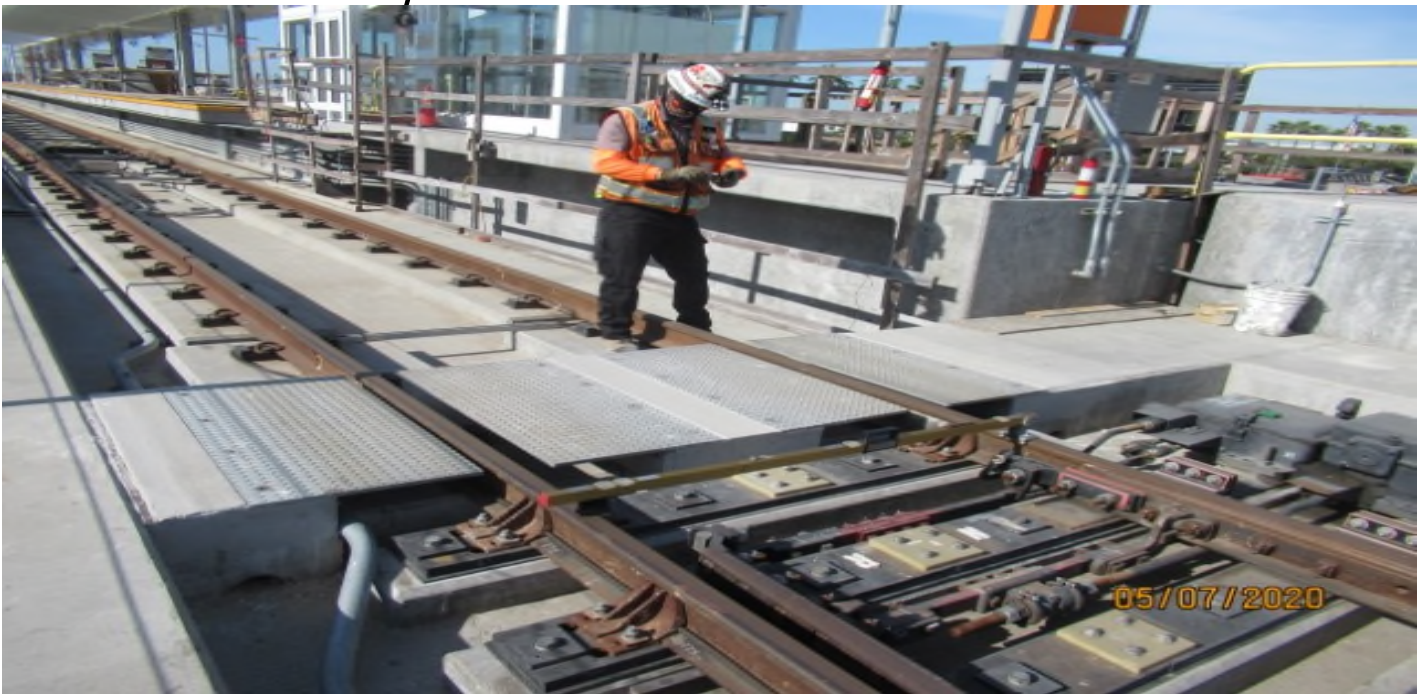


AVIATION/CENTURY - Emergency Walkway crossing at edge of DF track on Century/Aviation bridge STA 74+72.



AVIATION/CENTURY - WSCC QC & concrete foreman going over open item punch list, Activity #1498 on Century/Aviation bridge (looking east)

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



AVIATION/CENTURY - WSCC QC looking at condition of Emergency Walkway crossing on NB #4 track on Century/Aviation bridge



AVIATION/CENTURY - WSCC on NB #4 track STA 70+11 Century/Aviation bridge, repairing concrete foundations on emergency walkway's (looking southeast)

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



AVIATION/CENTURY - DB Electrical Place cage for SL at S/W corner of Aviation and 111th.



AVIATION/CENTURY - WSCC Cut SWK grade at S/E COR of 111th and Aviation

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



AVIATION/CENTURY - WSCC import soil and make grade at S/W COR of Aviation and Century.



AVIATION/CENTURY - WSCC Start removals at Aviation and 104th St.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



AVIATION/CENTURY - WSCC Make SWK and land scape grade Century and Aviation under bridge.



AVIATION/CENTURY - DB Electrical Tie in to existing loop circuits at NB Aviation and 104th St.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



AVIATION/CENTURY - WSCC Making grade for C&G at 104th and Aviation.



AVIATION/CENTURY - WSCC Excavation for Fire line at SB Aviation at end of UG-1

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



104<sup>th</sup> Street - North view of closed Aux Power site. 104<sup>th</sup>



104<sup>th</sup> Street - View of Dyna Electric preparing compressor work. 104<sup>th</sup>

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



104<sup>th</sup> Street - South view of WSCC building a ramp. 104<sup>th</sup>

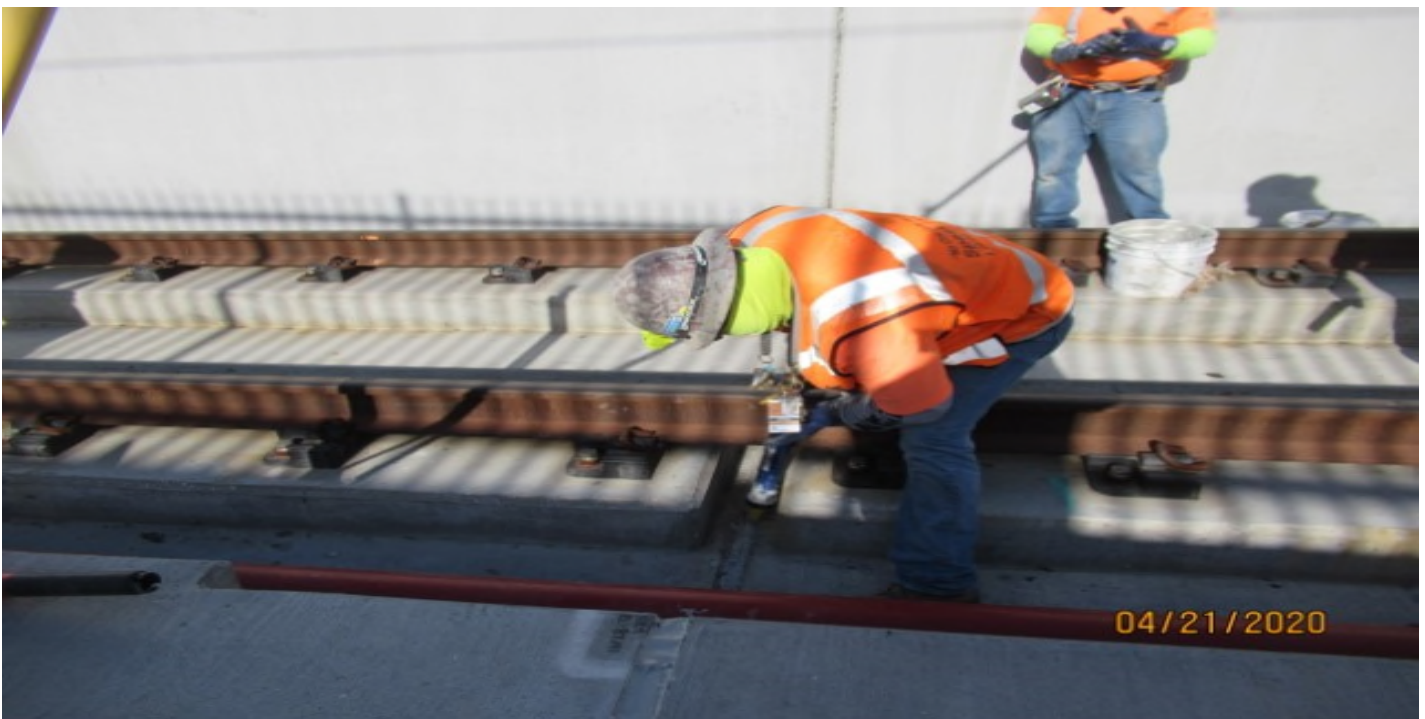


104<sup>th</sup> Street - South view of Aux Power manhole and Dyna Electric. 104<sup>th</sup>

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG - 1 – WSCC crew in UG1 both NB & SB tracks, for install of epoxy on expansion joints (looking south) out of sequence



UG – 1 - WSCC placing epoxy on expansion joints in UG1 NB #4 track out of sequence work

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG1 – WSCC placing epoxy on expansion joints in UG1 NB #4 track out of sequence work



UG1 – WSCC repair work on emergency walkway crossing in UG1 SB #3 track STA 49+73

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG1 – WSCC repair work on emergency walkway crossing in UG1 SB #3 track STA 49+73



UG1 – WSCC repair work on emergency walkway crossing in UG1 SB #3 track STA 49+73

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG1 – UG1 SB #3 track STA 49+78 emergency walkway on-going repair work (looking west) Rework



UG1 – UG1 SB #3 track STA 49+78 emergency walkway on-going repair work (looking west) Rework



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG1 – WSCC installing epoxy into expansion joints in UG1 NB #4 track (looking south) out of sequence



UG1 – Placing concrete for a driveway at UG-1.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

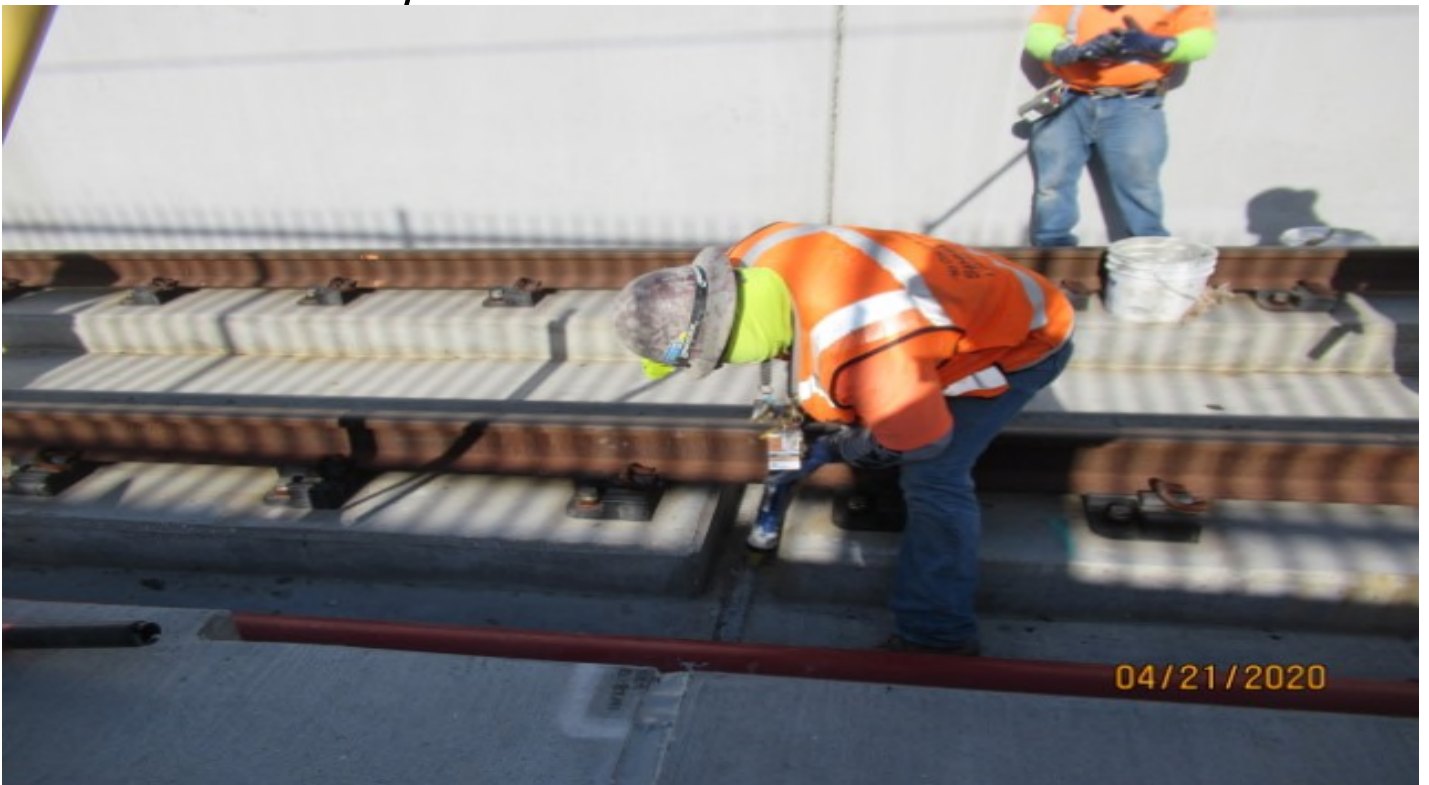


UG1 - WSCC Cut and remove 18" of soldier beams at 104th and UG-1



UG1 - Fire line excavation at the south portal of UG-1.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG1 - WSCC placing epoxy on expansion joints in UG1 NB #4 track out of sequence work



UG1 - WSCC crew in UG1 both NB & SB tracks, for install of epoxy on expansion joints (looking south) out of sequence work.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG1 - WSCC placing epoxy on expansion joints in UG1 NB #4 track WSCC placing epoxy on expansion joints in UG1 NB #4 track out of sequence work.



UG1 - WSCC repair work on emergency walkway crossing in UG1 SB #3 track STA 49+73.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**UG1 - WSCC preforming repair work (grouting concrete foundations) on #4 track UG1 STA 56+50 (looking south) Rework.**



**UG1 - WSCC concrete foreman leveling foundation for plates on emergency walkway in UG1 NB #4 track STA 56+50 (looking south) Rework**

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG1- WSCC installing epoxy into expansion joints in UG1 NB #4 track (looking south) out of sequence



UG1 Placing concrete for a driveway at UG-1.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG1- Fire line excavation at the south portal of UG-1.

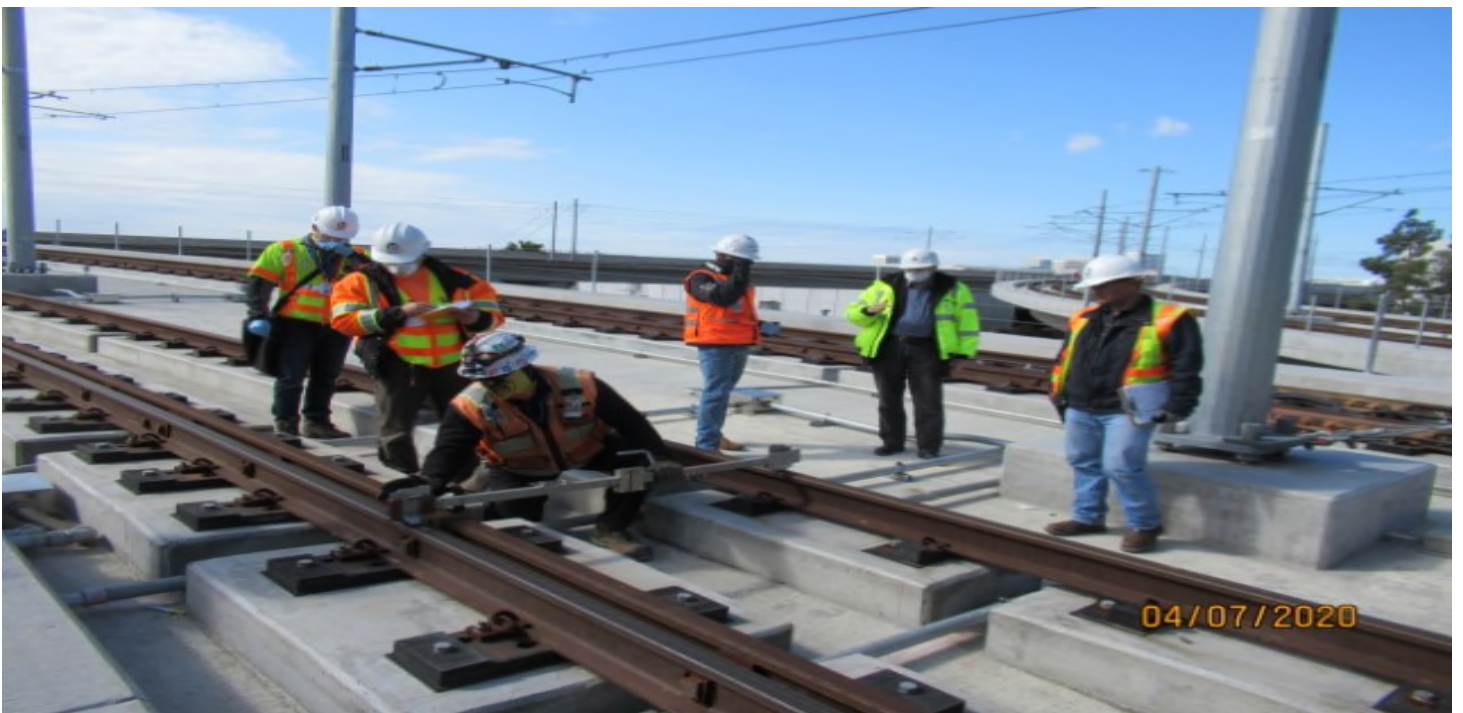


UG1- Excavating the fire line trench through slurry at the UG-1 south portal.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**Green Line underpass** – Metro & HCC cross referencing rail templates that matched for rail profile radius for HRC-CPF on NB1300 track GL Wye STA 12+56 (looking southeast)



**Green Line underpass** - Site walk for field verification of rail profile radius on NB1300 track STA 12+56 at GL Wye



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

## SEGMENT A:

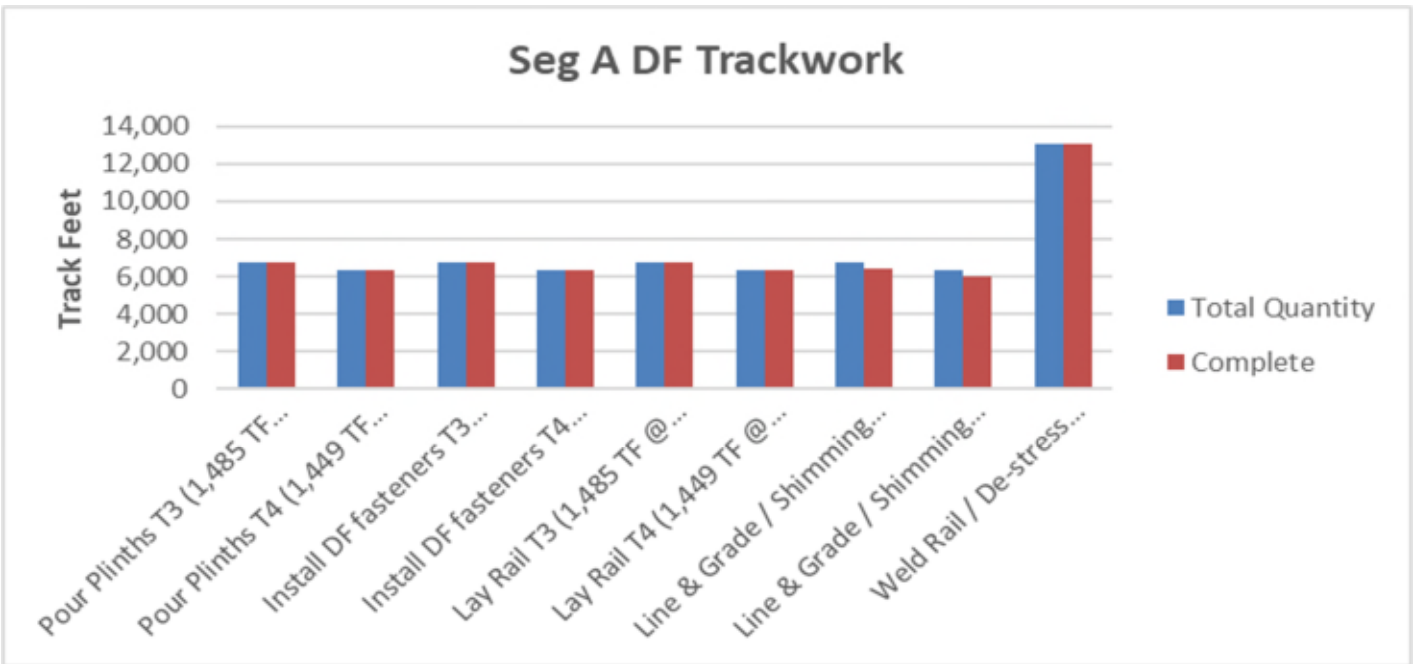
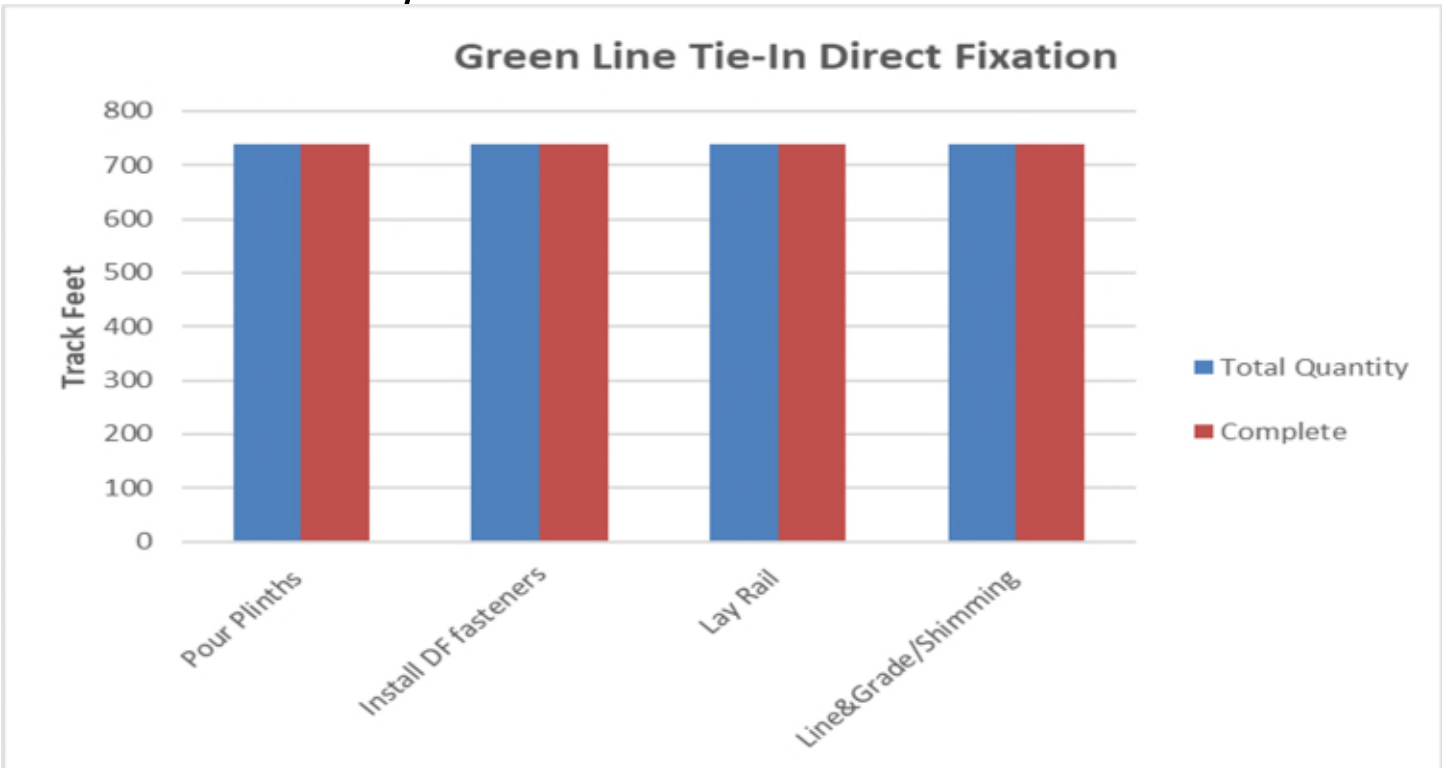
- Rework continues for emergency walkway insert plates due to miss-alignment.
- Disturbed track ballast / structure and emergency walkway ballast due to systems electrical conduit relocations continues to be repaired and re-dressed.
- Investigation of a possible repair process for plinth to invert gap continues in UG1 (NCR-A-111).
- Punchlist walk with WSCC QC Inspector is performed to review current completion status.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

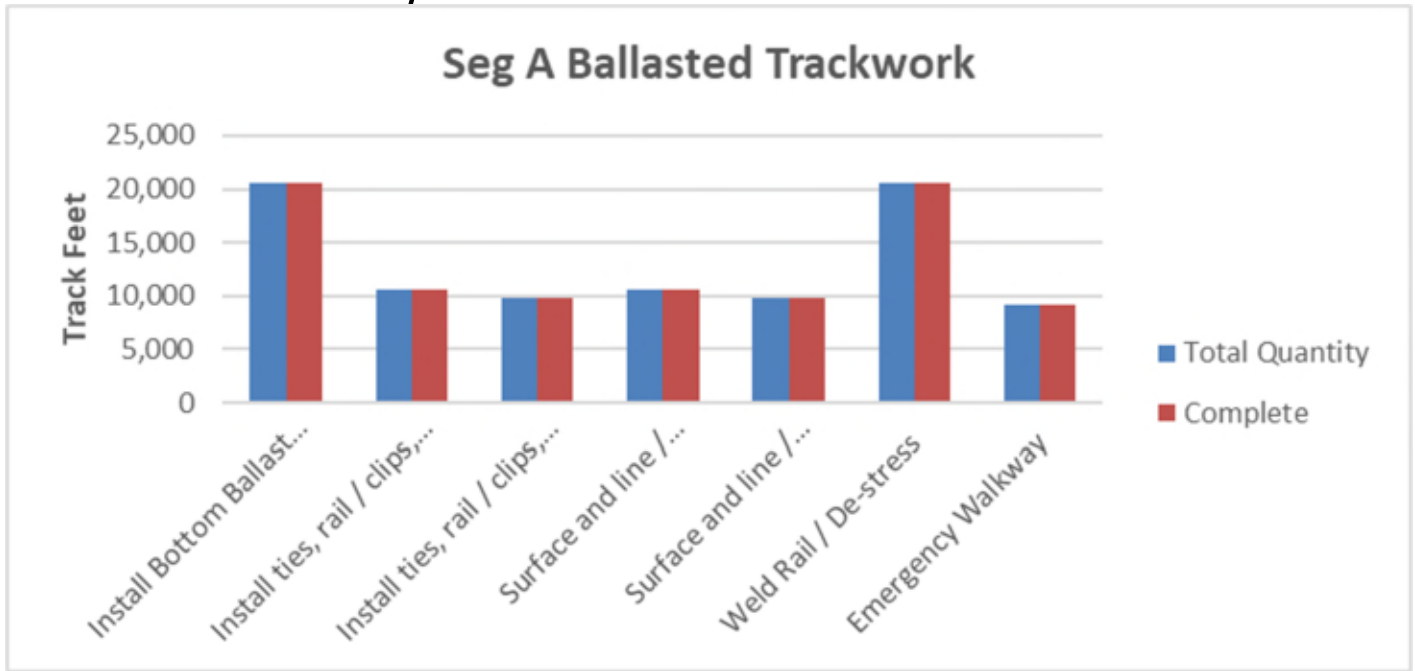
## PROJECT WIDE TRACKWORK PROGRESS

	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) (Insert rework continues)	6,763	6,763	0	100.00%	*		
		Pour Plinths T4 (1,449 TF @ wye + 4,877 TF) (Insert rework continues)	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		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								

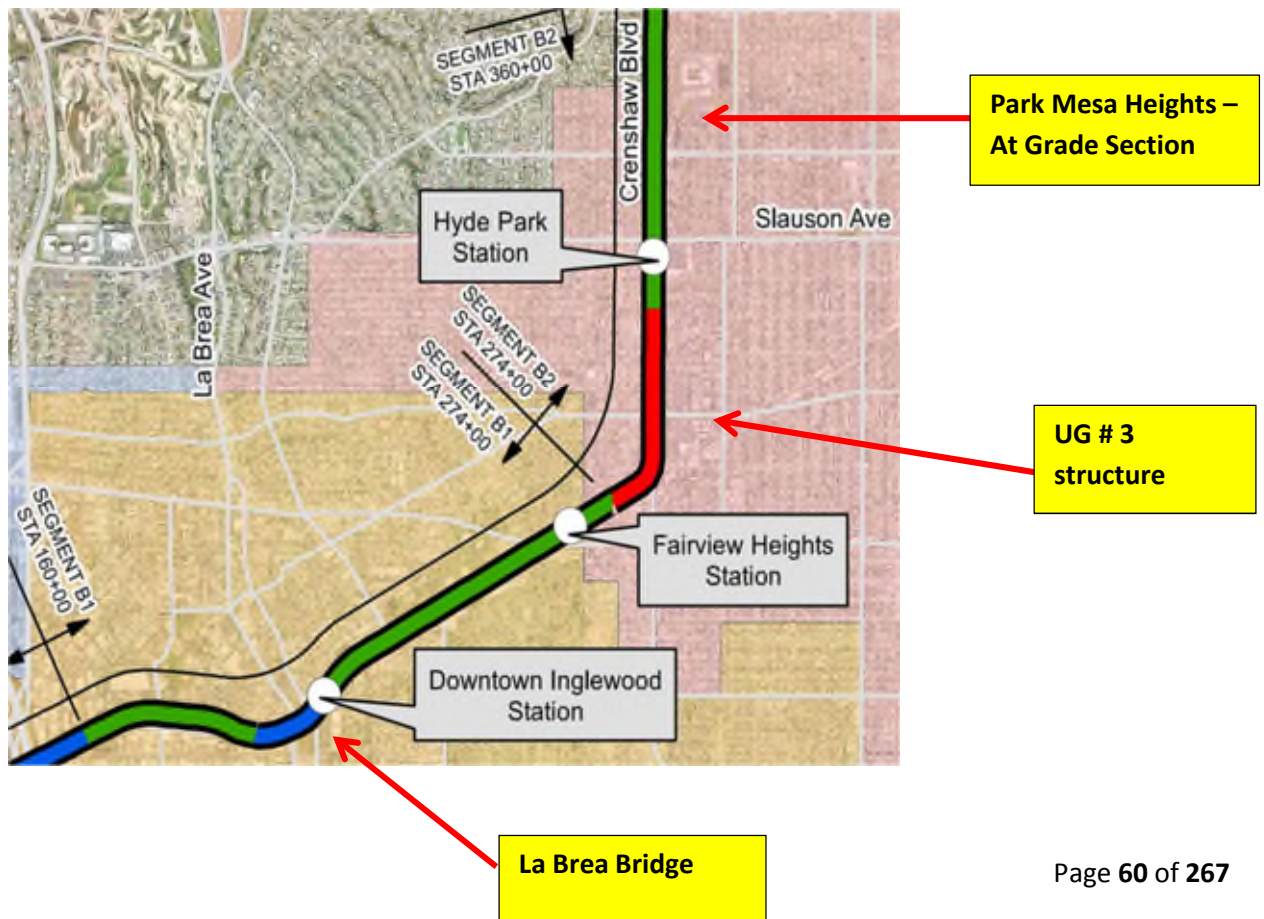
# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



## Segment B



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**PARK MESA** – Excavating for light pole foundations on the south east corner of 60th St & Crenshaw Blvd. 4/22/20



**PARK MESA** – Anchoring the generator to the housekeeping pad at TPSS#7 on 60th St & Crenshaw Blvd.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**PARK MESA** – Began sonotube formwork and rebar installation for light pole foundations at the northeast corner of TPSS#7 on 60th St & Crenshaw Blvd. 5/5/20



**PARK MESA** – Continue sonotube formwork and rebar installation for light pole foundations at the northeast corner of TPSS#7 on 60th St & Crenshaw Blvd.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**PARK MESA** – Placing concrete for the light pole foundations at the northeast corner of TPSS#7 on 60th St & Crenshaw Blvd. 5/8/20



**PARK MESA** – Stripping forms for the light pole foundations at the northeast corner of TPSS#7 on 60th St & Crenshaw Blvd. 5/11/20

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**PARK MESA** – Began fence post installation around the perimeter of TPSS#7 on 60th St & Crenshaw Blvd.



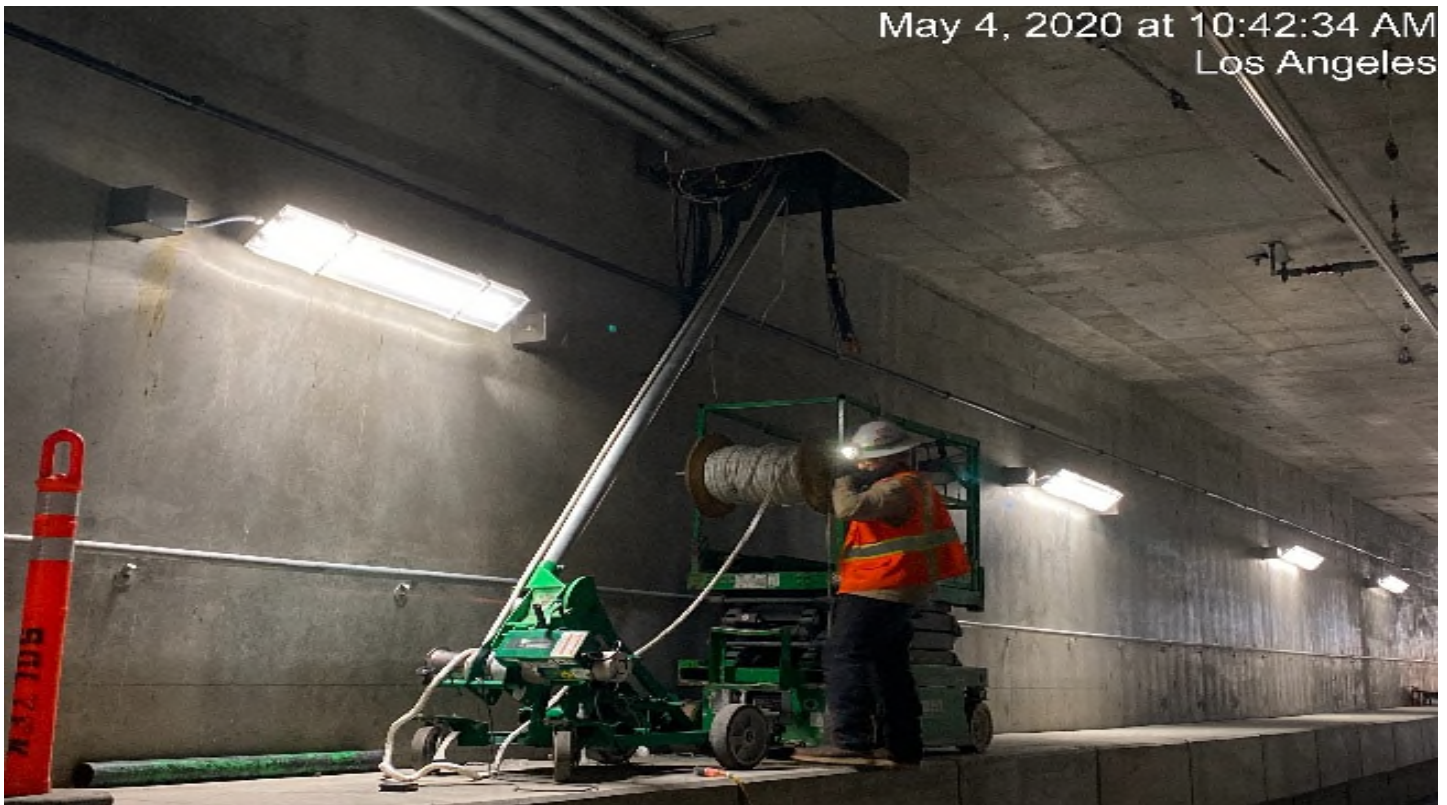
**PARK MESA** – Continue fence post installation around the perimeter of TPSS#7 on 60th St & Crenshaw Blvd. 5/4/20



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG3 – STA 283+00 TK#4,NB looking north – TC work at south portal UG3 (Victoria).



UG3 – DCD pulling cables for booster fans at UG-3.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG3 – Excavating for the culvert drainage system along the northbound barrier wall at Victoria Yard. 5/5/20



UG3 – Continue excavating for the culvert drainage system along the northbound barrier wall at Victoria Yard. 5/8/20

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG3 – Installing block out forms for tree wells and placing concrete for sidewalk panels at the east section of Victoria Yard. 5/11/20



UG3 – Delivered and installed sliding gate for the entrance of the Auxiliary Power Bungalow at Victoria Yard.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG3 – Continue installing rebar mat for the street light foundation on the southwest corner of 67th St and Crenshaw Blvd. 5/6/20



UG3 – Installing street light pole on the southwest corner of 67th St and Crenshaw Blvd. 5/12/20

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG3 – Installing pull boxes for the street light pole on the southwest corner of 67th St and Crenshaw Blvd. 5/13/20



UG3 – Pulling power to pull boxes to supply runs for the street light pole on the southwest corner of 67th St and Crenshaw Blvd. 5/14/20

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG3 – Continue pulling power to pull boxes to supply runs for the street light pole on the southwest corner of 67th St and Crenshaw Blvd. 5/18/20



UG3 – Continue pulling permanent power cables for the tunnel booster fans along the northbound tunnel.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

May 13, 2020 at 10:55:56 AM  
Los Angeles



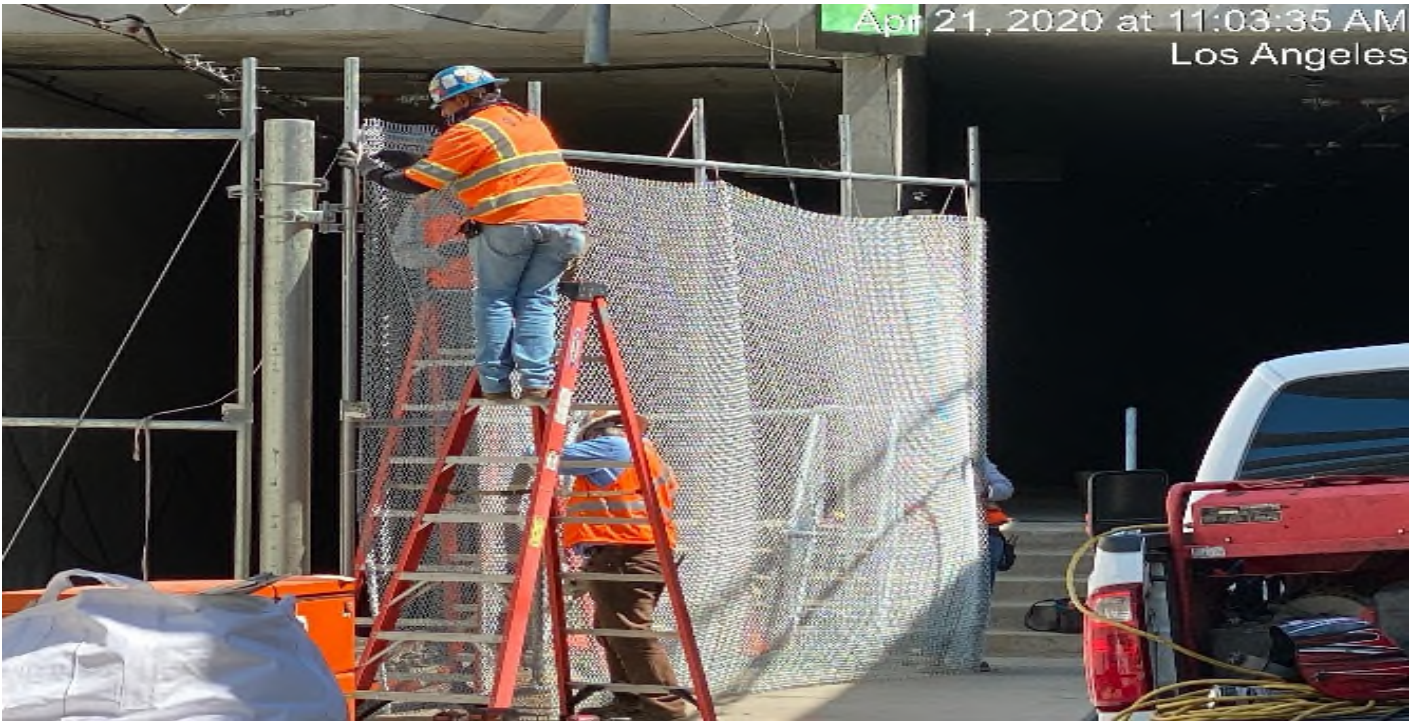
UG3 – Continue pulling permanent power cables for the tunnel booster fans along the northbound tunnel.

May 14, 2020 at 12:19:59 PM  
Los Angeles



UG3 – Continue pulling permanent power cables for the tunnel booster fans along the northbound tunnel.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG3 – Ace Fencing installing gates at south portal UG-3.



UG3 – McMahon installing handrail at UG-3.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG3 – McMahon installing handrail at UG-3.



UG3 – Continue grading and excavating for the culvert drainage along the southbound barrier wall in preparation for concrete placement. 3/27/20

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG3 – Drilling and doweling the Cul-de-sac gutter radius at North Victoria Ave. 4/17/20



UG3 – Placing concrete for the sidewalk driveway for the Cul-de-sac radius at North Victoria Ave. 4/27/20

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**UG3** – Building forms for the drainage structure connecting to Catch Basin #1 on the north east corner of Victoria Yard. 4/17/20



**UG3** – Continue excavation for the new sidewalk/driveway installation on the southwest corner of 67th St and Crenshaw Blvd. 3/20/20

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**UG3** – Continue excavating for the culvert swales for the drainage structure on the north east corner of Victoria Yard. 4/22/20



**UG3** – Completed stone installation for the culvert swale drainage intersection on the north east corner of Victoria Yard. 4/23/20

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

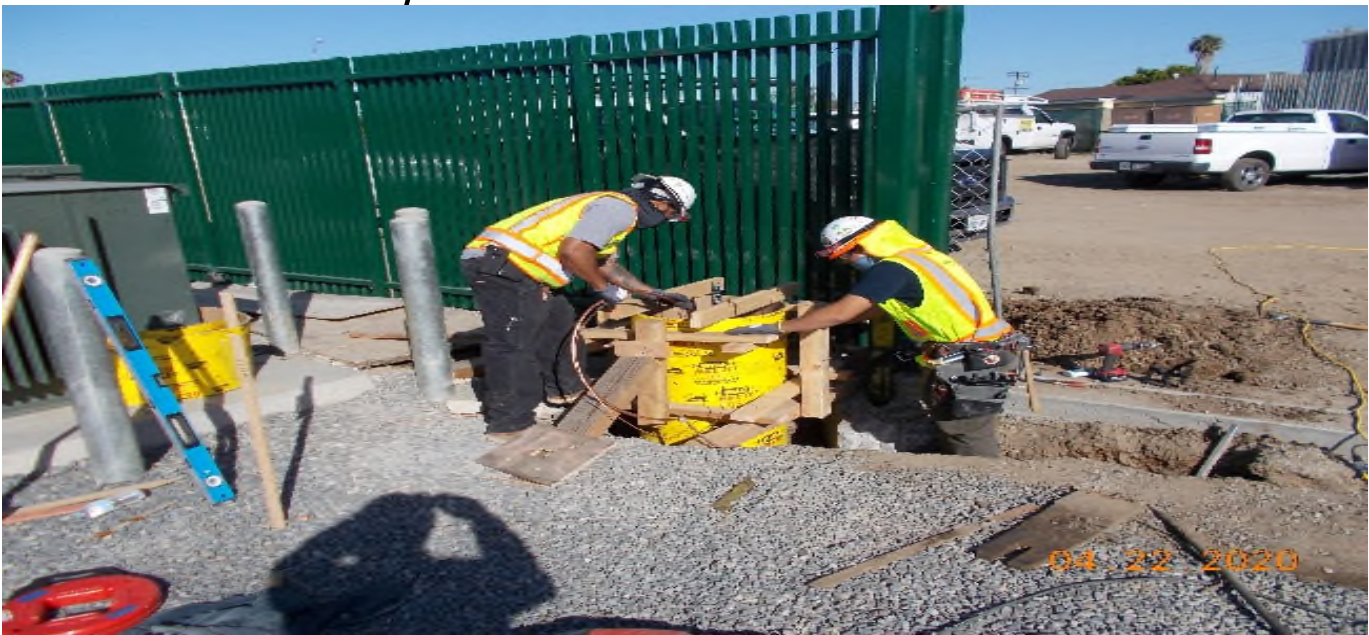


**UG3** – Building forms for the culvert drainage system installation along the southbound barrier wall at Victoria Yard. 4/30/20



**UG3** – Placing concrete for the culvert drainage system along the southbound barrier wall between Sta 278+55 – 279+25 at Victoria Yard. 5/1/20

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG3 – Began formwork for the light pole foundations on both sides of the Auxiliary Power Bungalow at Victoria Yard.



UG3 – Placing concrete on the light pole foundations on both sides of the Auxiliary Power Bungalow at Victoria Yard.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG3 – Completed light pole foundations on both sides of the Auxiliary Power Bungalow at Victoria Yard.



UG3 – Installing rebar mat for the street light foundation on the southwest corner of 67th St and Crenshaw Blvd. 5/4/20

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



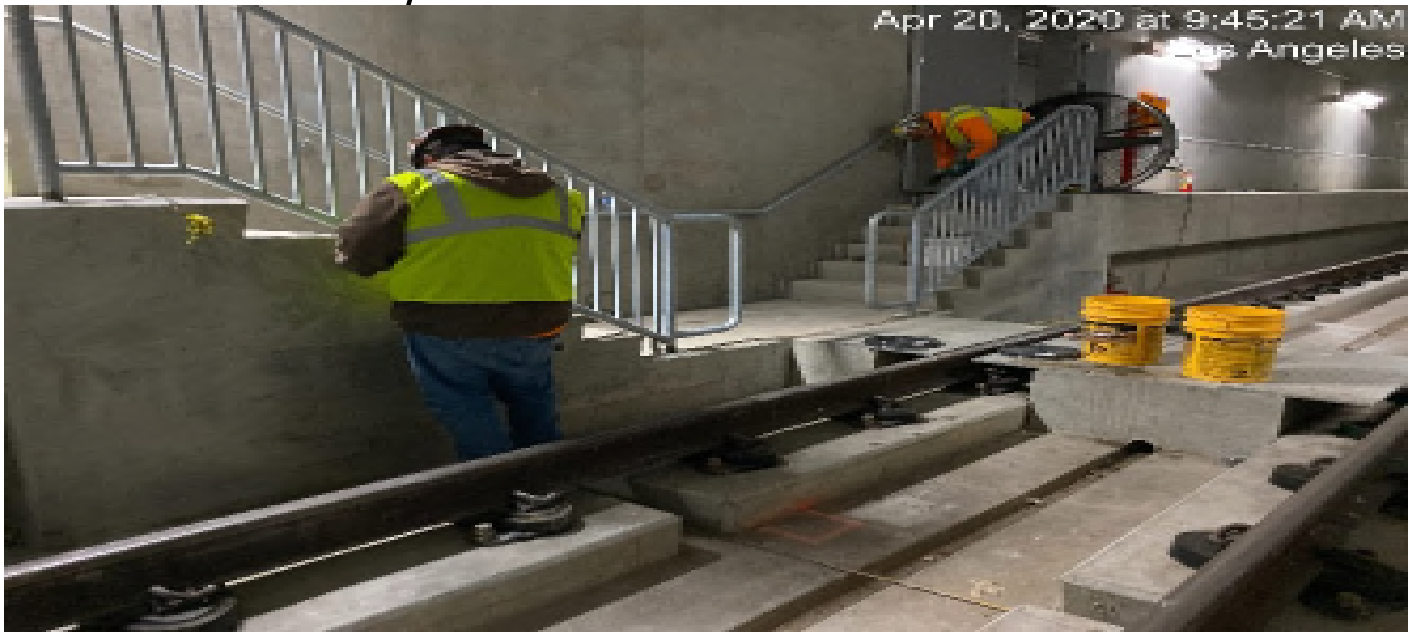
UG3 – Installing chain link fencing for both north and southbound tracks at the south end portal entrance.



UG3 – Continue installing chain link fencing for both north and southbound tracks at the south end portal entrance.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG3 – Continue handrail installation at the sump pump area stairs at Sta 298+00.



UG3 – Continue handrail installation at the north end stairs at Sta 311+00.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

Apr 22, 2020 at 10:11:18 AM  
Los Angeles

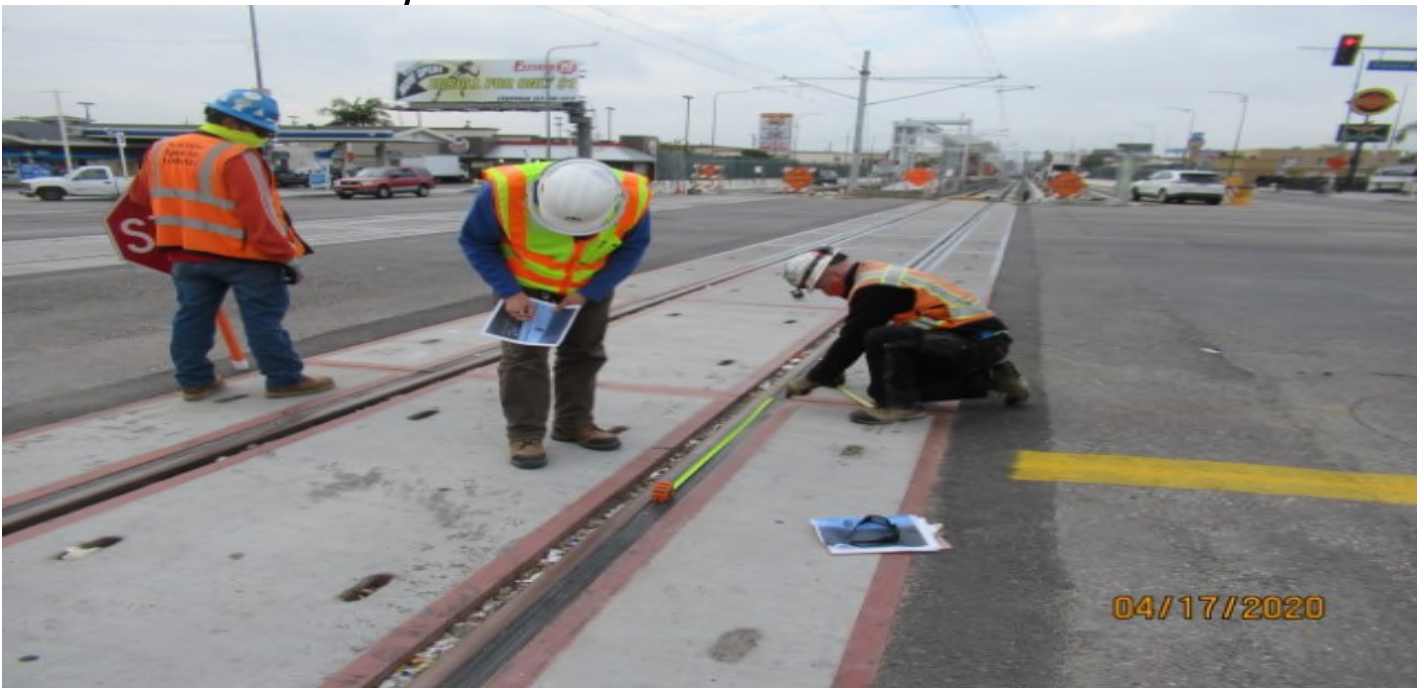


UG3 – Continue handrail installation at the north end stairs at Sta 311+00.



Crenshaw / Slauson – Slauson Ave grade crossing STA 323+88, Metro & WSCC inspectors verifying rail gouges on NB #4 track (looking northeast)

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**Crenshaw / Slauson** – Metro & WSCC inspectors collecting data for SB #3 track at Slauson Ave grade crossing.



**Crenshaw / Slauson** - STA 323+00 TK#3/SB looking south – set form and rebar at north end of Slauson Station for future pedestrian pad

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**Crenshaw / Slauson - STA 323+00 TK#3/SB** looking south – set form and rebar at north end of Slauson Station for future pedestrian pad



**Crenshaw / Slauson - STA 317+00 TK#3/SB** looking north – form removal around pedestrian landing south end Slauson Station

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw / Slauson - STA 323+00 TK#3/SB looking west – track structure disturbed (between tracks) north end of Slauson Station – PUNCH LIST



Crenshaw / Slauson - STA 323+00 TK#3/SB looking west – track structure disturbed (between tracks) north end of Slauson Station – PUNCH LIST

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**Crenshaw / Slauson - STA 323+00 TK#3/SB looking west – track structure disturbed (between tracks) north end of Slauson Station – PUNCH LIST**



**Crenshaw / Slauson - STA 323+00 TK#4/NB looking north – vacuum pole foundation excavation north end Slauson Station – PUNCH LIST**

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw / Slauson - STA 323+00 TK#4/NB looking south – dirt spilled all over track ballast after pole foundation excavation north end Slauson Sta



Hyde Park Station – Continue installing light gauge framing and roofing on the north end canopy structures. 4/20/20

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**Hyde Park Station** – Continue installing light gauge framing and roofing on the north and south end canopy structures. 4/21/20



**Hyde Park Station** –Installing utility and lighting on both the north and south end canopy structures. 4/23/20



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**Hyde Park Station** – Installing overhead lighting on the south end pavilion. 4/24/20



**Hyde Park Station** – Began formwork and rebar installation for the south end entrance ramp of the platform. 4/21/20

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Hyde Park Station – Placing concrete for the south end entrance ramp at the platform.  
4/22/20



Florence/West – Sidewalk subgrade at West Station prior to concrete placement.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Florence/West – Placing concrete for the sidewalk at West Station.



Florence/West – WSCC Cut and make grade For swale at West Station.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Florence/West – Select Electric Pull cable for all of Redondo/West intersection.



Florence/West – WSCC Start removals on N/B West St at crossing.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Florence/West – Select Electric Continue pulling wire and standing poles At 71St and West St.



Florence/West – Select Electric Pulling wire and standing poles at Redondo and West St.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Florence/West – WSCC Make grade for swales on both ROWs east of West St.



Florence/West – ACE fence place fence panels at West St Station.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Florence/West – WSCC Placing concrete pace of generator pedestal at West Station parking lot.



Florence/West – Placing SWK concrete at West Station parking lot.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Florence/West – WSCC Continue grading for swale area at West Station ballast wall.



Florence/West – Carpenter Crew Form For emergency generator receptacle pedestal at center of West Station.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Florence/West – WSCC Clearing and grubbing in swale area at ballast wall at West Station.



Florence/West – STA 262+75 TK#3/SB looking north – pour PCC for pedestrian landing south end of West Station Platform.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Florence/West – WSCC Placed concrete for handy capped ramp on West end of West Station.



Florence/La Brea – WSCC Core hole in CB west of La Brea on W/B Florence.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Florence/Brea – WSCC Excavate for CB west of La Brea on W/B Florence.



Florence/Brea - Stantec/Metro Surveyors measuring TOR elevations on NB #4 track on La Brea OP STA 206+20

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Florence/Brea - WSSC placed SWK concrete at N/W corner of La Brea and Florence.



Florence/Brea - STA 205+50 TK#4,NB looking north – track geometry measurement south of La Brea Station

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Florence/Brea - STA 206+00 TK#4,NB looking south – track geometry measurement south of La Brea Station – missing track ballast left shoulder



Florence/Brea - WSCC/ Pan Pacific to cut and remove gas line at La Brea and Florence.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Florence/Brea - STA 208+00 TK#4/NB looking north – track geometry measurement south of La Brea Station before re-tamping



Florence/Brea - STA 206+00 TK#4/NB looking south – track ballast delivery south of La Brea Station

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Florence/Brea - Masonry Concepts Place veneer walls at La Brea bathrooms.



Florence/Brea – Complete forms for concrete at south ticket pavilion at La Brea Station.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Florence/Brea – WSCC Carpenters formed for plaza platform at s-ticket pavilion La Brea Station.



Florence/Brea - WSCC Grading behind SWK at La Brea and Florence S/E corner.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Florence/Brea – Select Electric Removed existing TS foundation at S/E corner of La Brea and Florence.



Florence/Brea – WSCC Placed concrete for pylons at W/B Florence at La Brea Station.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Florence/Brea – WSCC Placed concrete for platform at South ticket pavilion at La Brea Station.



Florence/High St. - STA 257+30 TK#3/SB looking north – TC (system) work between High St (behind camera) and West Blvd.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Florence/High St. - Select Electric Place TS conduit at E/B Florence and High St.



Florence/High St. - ACE Fence Placed fence panels at Florence west of High Street.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Florence/High St. - STA 257+25 TK#3/SB looking south – system work north end High St at grade Xing.



Florence/High St. - WSCC Cut and make grade for SWK pour at EB Florence and High St.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Florence/High St. - WSCC Making removals and grade for SWK pour at Florence and High St.

## **SEGMENT B1:**

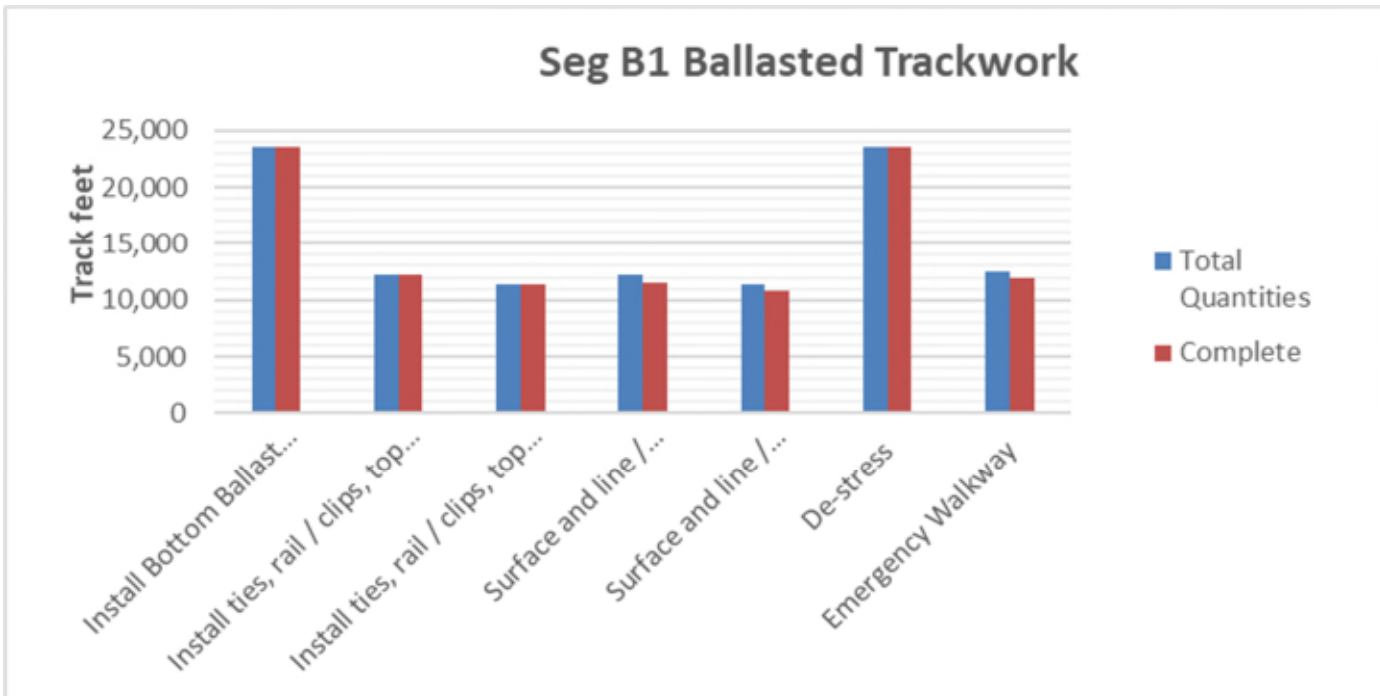
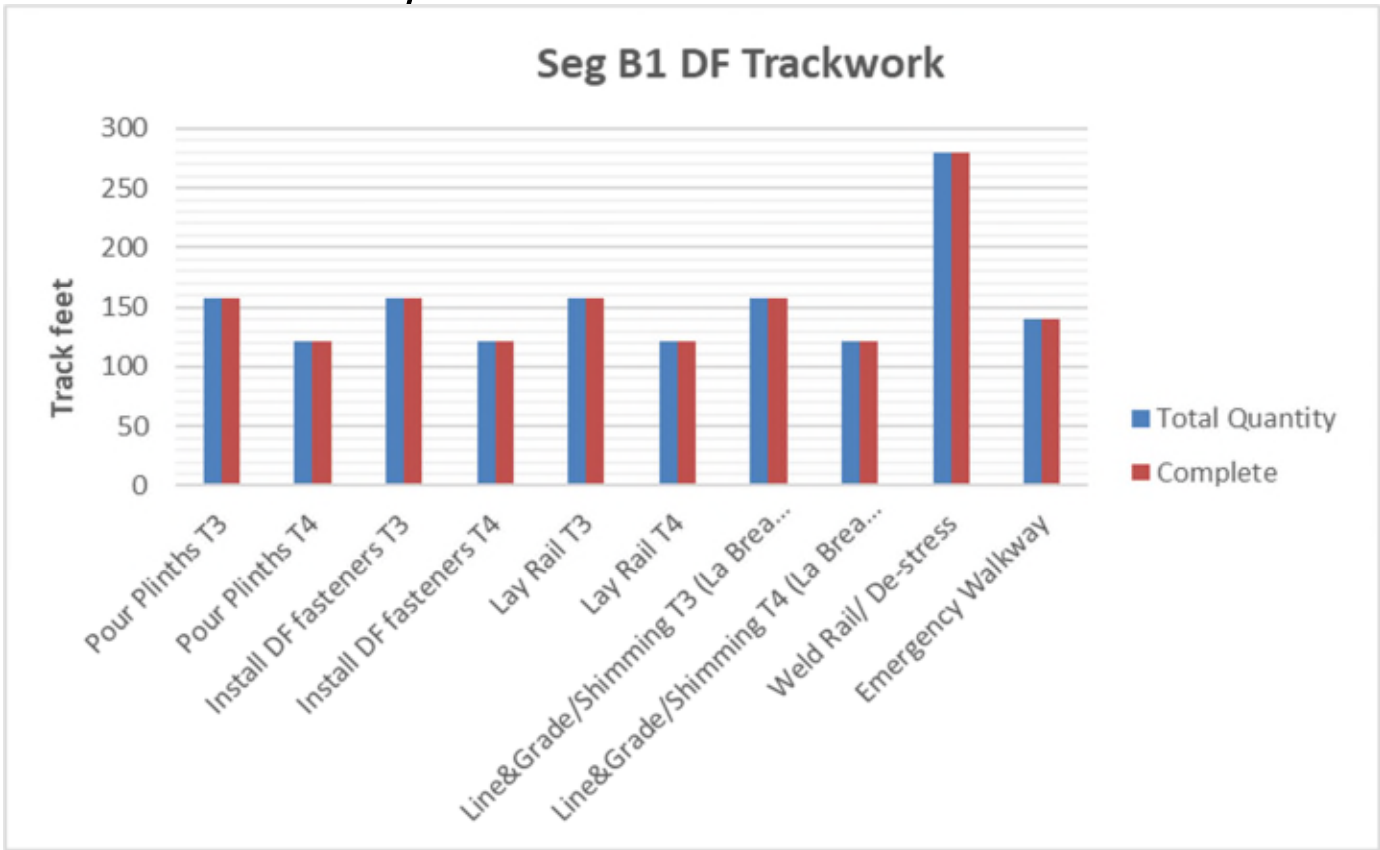
- Disturbed ballast due to systems electrical conduit relocations continues to be repaired and re-dressed
- Investigation of track mis-alignment due to settlement of MSE Wall #202L is in process
  - Rework of the Top-of-Rail it may be required due to gouges in the rail at grade crossing – pending resolution.
  - Ballast repair at Wall #202L investigation is started.
  - Investigation of rail gouges is started.

# 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/Centinel, 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



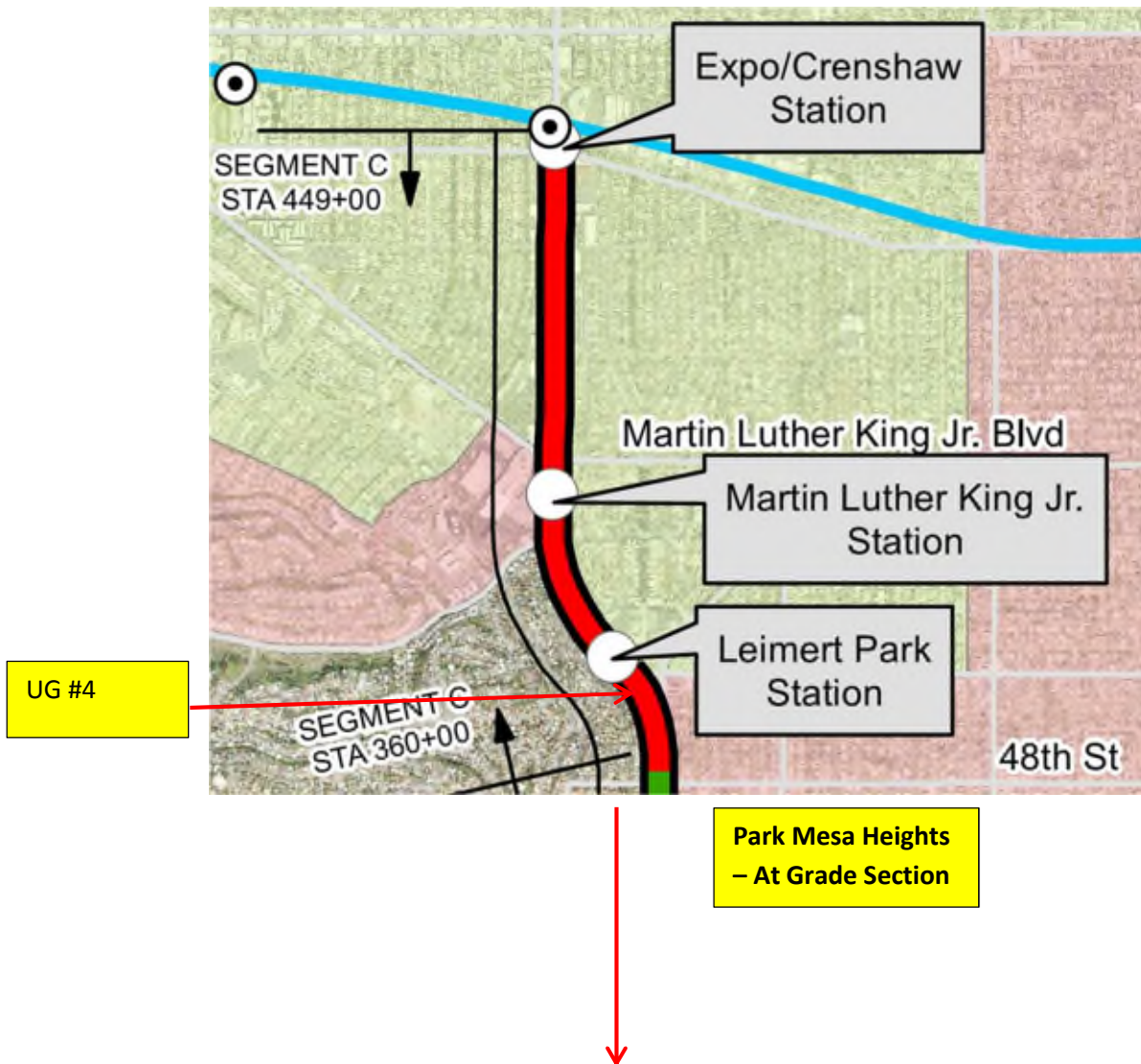
## SEGMENT B2:

- Disturbed ballast due to systems electrical conduit relocations continues to be repaired and re-dressed.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

- Rework continues to relocate incorrectly installed Insulated Joints (IJs) for train control on both north and south bound tracks south of 57th Street.
- Rework of the Top-of-Rail it may be required due to gouges in the rail at grade crossing – pending resolution.

## Segment C

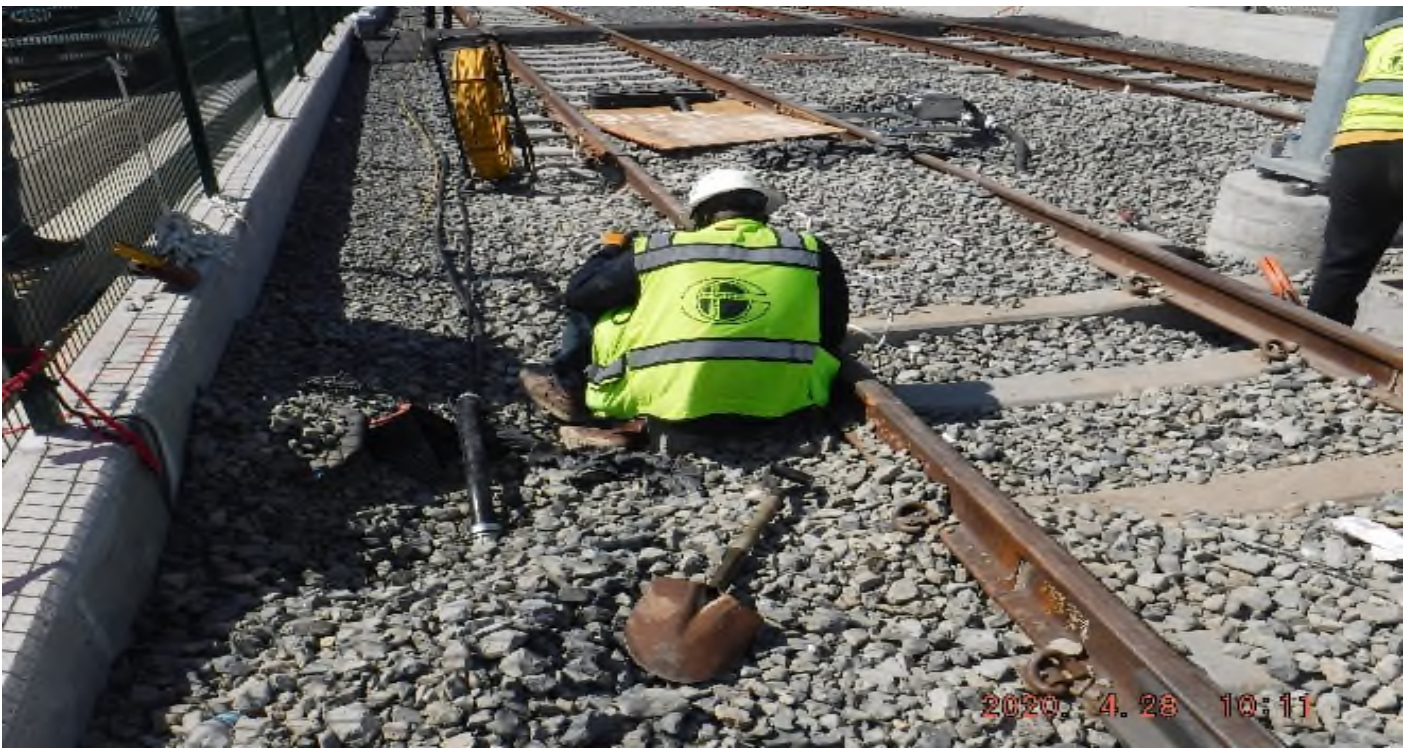




# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



57<sup>th</sup> Street - STA 329+75 TK#4/NB looking north – track structure status as of 4.17.2020 south of 57th St – PUNCH LIST.



57<sup>th</sup> Street - STA 330+00 TK#4/NB looking south right shoulder – system work with track structure disturbance south of 57th St.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



57<sup>th</sup> Street - STA 329+90 TK#4/NB looking east – system work with track structure disturbance south of 57th St – PUNCH LIST.



57<sup>th</sup> Street - STA 329+90 TK#4/NB looking west – checking depth of system conduit imbedded in track structure south of 57th St.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



57<sup>th</sup> Street - STA 329+75 TK#4/NB looking east – checking depth of system conduit imbedded in track structure south of 57th St.



57<sup>th</sup> Street - STA 330+00 TK#3/SB looking south – system work with track structure disturbance south of 57th St around/next to OCS #1258 as of 4.20.2020 – PUNCH LIST

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

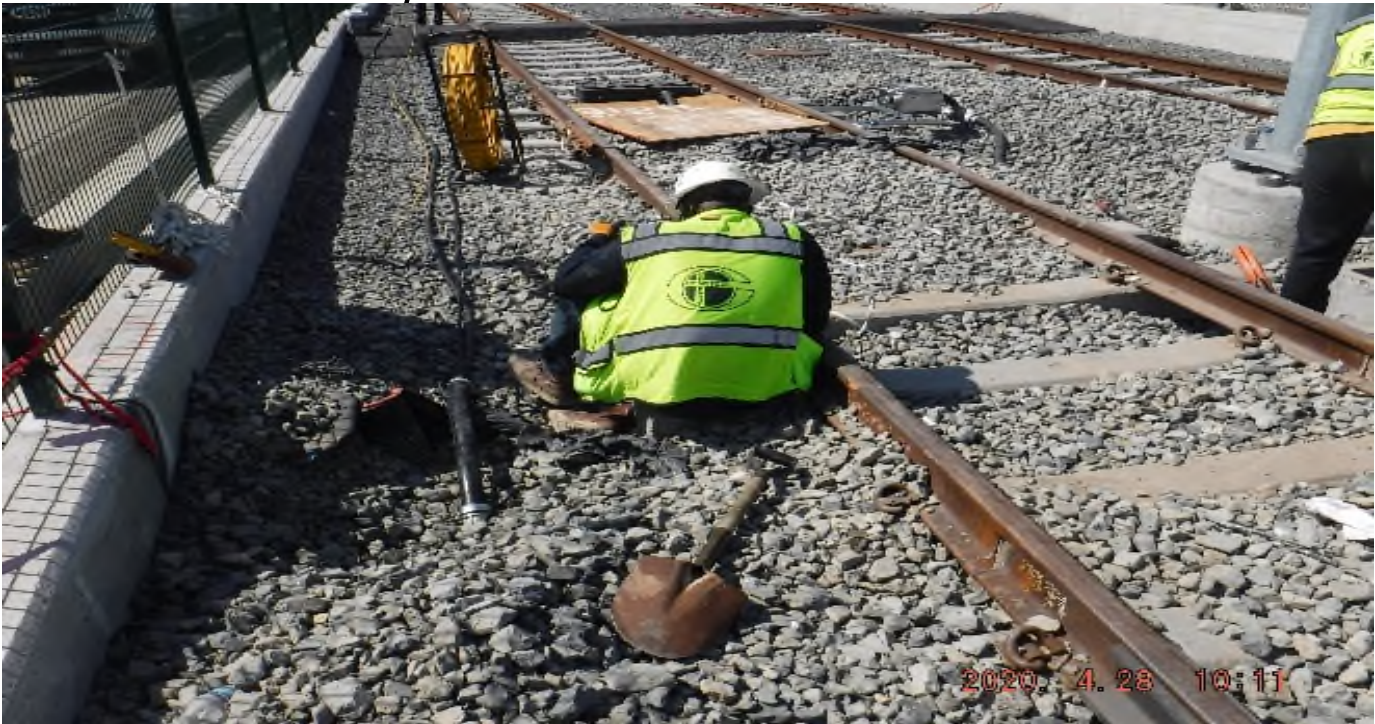


57<sup>th</sup> Street - STA 329+75 TK#3/SB looking east – system work with track structure disturbance south of 57th St around/next to OCS #1258 as of 4.22.2020 – PUNCH LIST



57<sup>th</sup> Street - STA 330+00 TK#3/SB looking south (east) – system work with track structure disturbance south of 57th St around/next to OCS #1258 and MH-S099 – PUNCH LIST

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



57th STREET- STA 330+00 TK#4.NB looking south right shoulder – system work with track structure disturbance south of 57th St – PUNCH LIST



57th STREET- STA 329+90 TK#4 , NB looking east – system work with track structure disturbance south of 57th St – PUNCH LIST

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**57th STREET-** STA 329+90 TK#4 , NB looking west – checking depth of system conduit imbedded in track structure south of 57th St – PUNCH LIST



**57th STREET-** STA 329+75 TK#4 , NB looking east – checking depth of system conduit imbedded in track structure south of 57th St – PUNCH LIST

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



57th STREET- STA 330+00 TK#3 , SB looking south – system work with track structure disturbance south of 57th St around,next to OCS #1258 as of 4.20.2020 – PUNCH LIST



57th STREET- STA 329+75 TK#3,SB looking east – system work with track structure disturbance south of 57th St around,next to OCS #1258 as of 4.22.2020 – PUNCH LIST

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



57th STREET- STA 330+00 TK#3,SB looking south (east) – system work with track structure disturbance south of 57th St around,next to OCS #1258 and MH-S099 – PUNCH LIST



57th STREET-STA 329+40 TK#4,NB looking north – track status , track structure disturbance after weekend work NCR-B-089 (57th St) – PUNCH LIST



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**EXPO STATION** – Placing concrete for new curb/gutter and bus pad installation on southbound Crenshaw Blvd between Exposition Blvd and Rodeo Blvd.



**EXPO STATION** – Stripping forms and saw cutting the bus pad on southbound Crenshaw Blvd between Exposition Blvd and Rodeo Blvd.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**EXPO STATION** – Fine grading and compacting for new sidewalk installation on southbound Crenshaw Blvd between Exposition Blvd and Rodeo Blvd.



**EXPO STATION** – Excavating trench for new sidewalk/curb installation on southbound Crenshaw Blvd between Exposition Blvd and Rodeo Blvd.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**EXPO STATION** – Preparing area for concrete placement of sidewalk/curb installation on southbound Crenshaw Blvd between Exposition Blvd and Rodeo Blvd.



**EXPO STATION** – Excavating and installing rebar for the street light foundation on the northeast corner of Obama Blvd and Crenshaw Blvd.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**EXPO STATION** – Excavating sidewalk for new curb/gutter installation on northbound Crenshaw Blvd between Obama Blvd and Exposition Blvd.



**EXPO STATION** – Placing concrete for new curb/gutter installation on northbound Crenshaw Blvd between Obama Blvd and Exposition Blvd.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**EXPO STATION** – Potholing for conduit duct bank installation at the southwest corner of the plaza level.

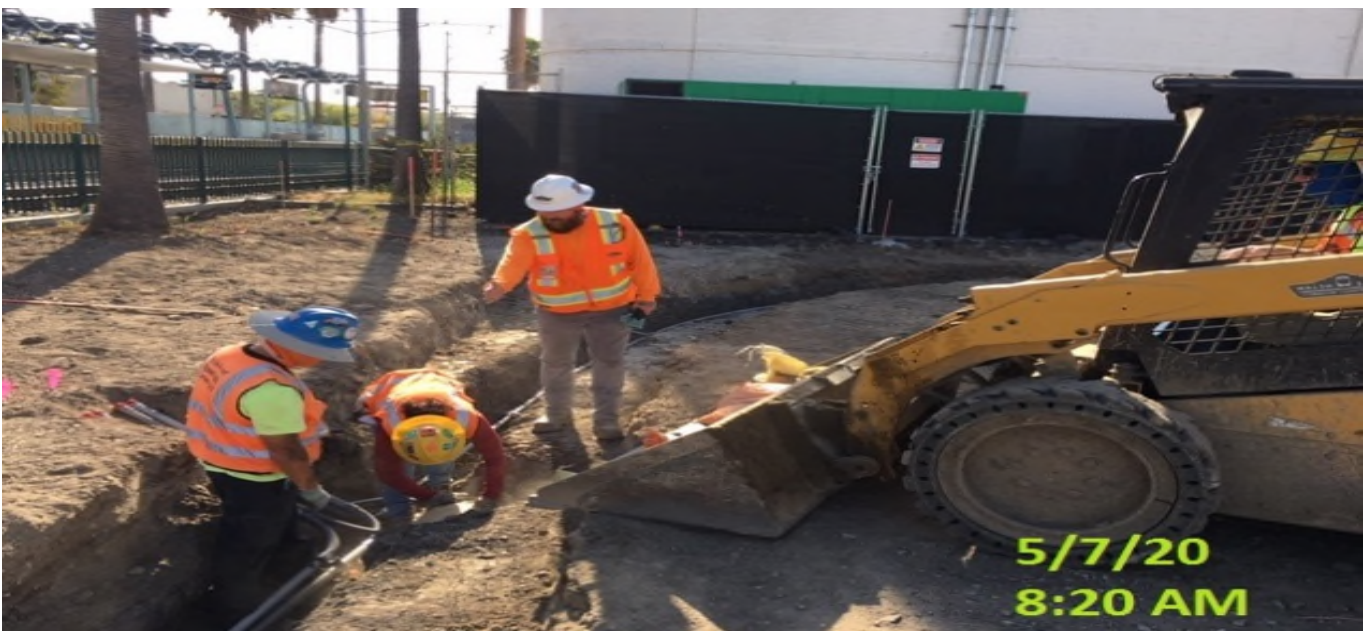


**EXPO STATION** – Adjusting and laying out for plaza lighting measurements at the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**EXPO STATION** – Began sonotube formwork for plaza lighting foundations at the plaza level.



**EXPO STATION** – Trenching for placement of concrete over the conduit duct bank at the northeast section of the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**EXPO STATION** – Placed concrete over the conduit duct bank along the north side section of the plaza level.



**EXPO STATION** – Continue trenching for conduit duct bank installation at the southwest corner of the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**EXPO STATION** – Excavating/trenching for upcoming bollard installation on the west side of the plaza level.



**EXPO STATION** – Continue trenching for conduit duct bank installation at the southwest corner of the plaza level.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**EXPO STATION** – Continue potholing for upcoming tree well installation throughout the plaza level.



**EXPO STATION** – Continue potholing for upcoming tree well installation throughout the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**EXPO STATION** – Continue trenching for conduit duct bank installation at the southwest corner of the plaza level.

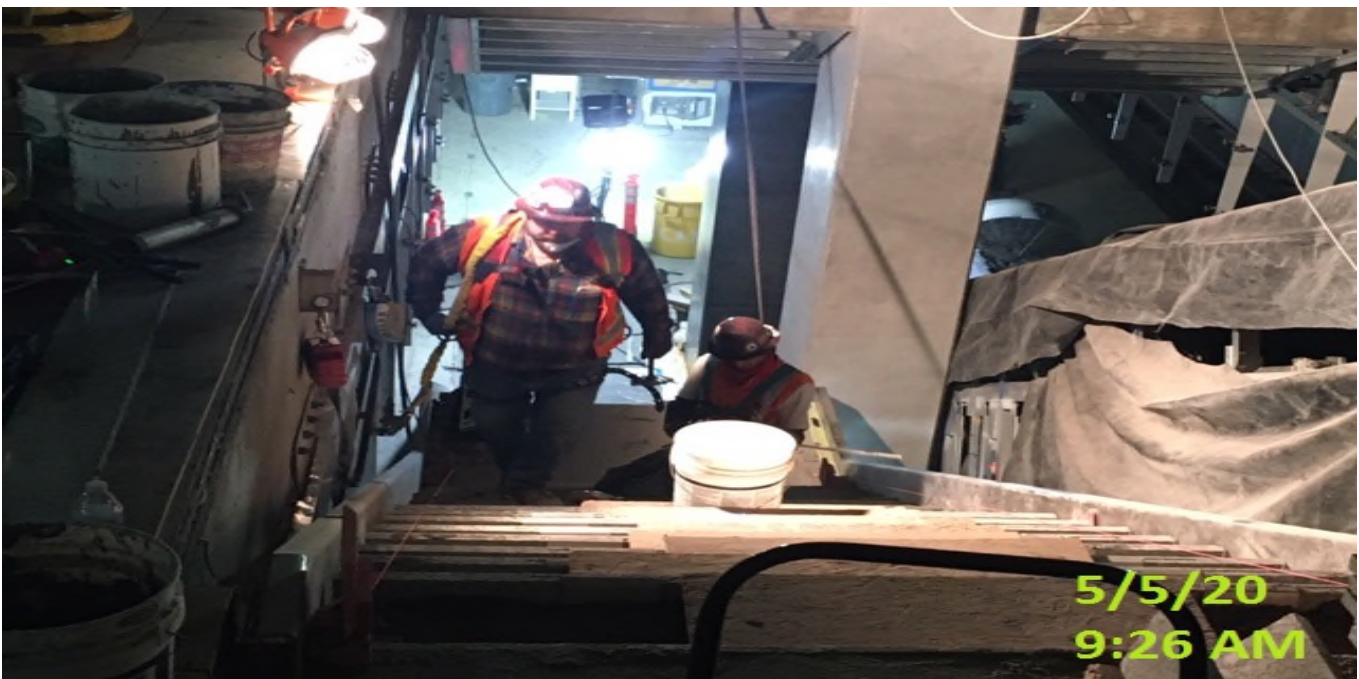


**EXPO STATION** – Continue trenching/potholing for conduit duct bank installation at the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**EXPO STATION** – Patching and surfacing walls in C-125 Emergency Fan Room North at the concourse level.

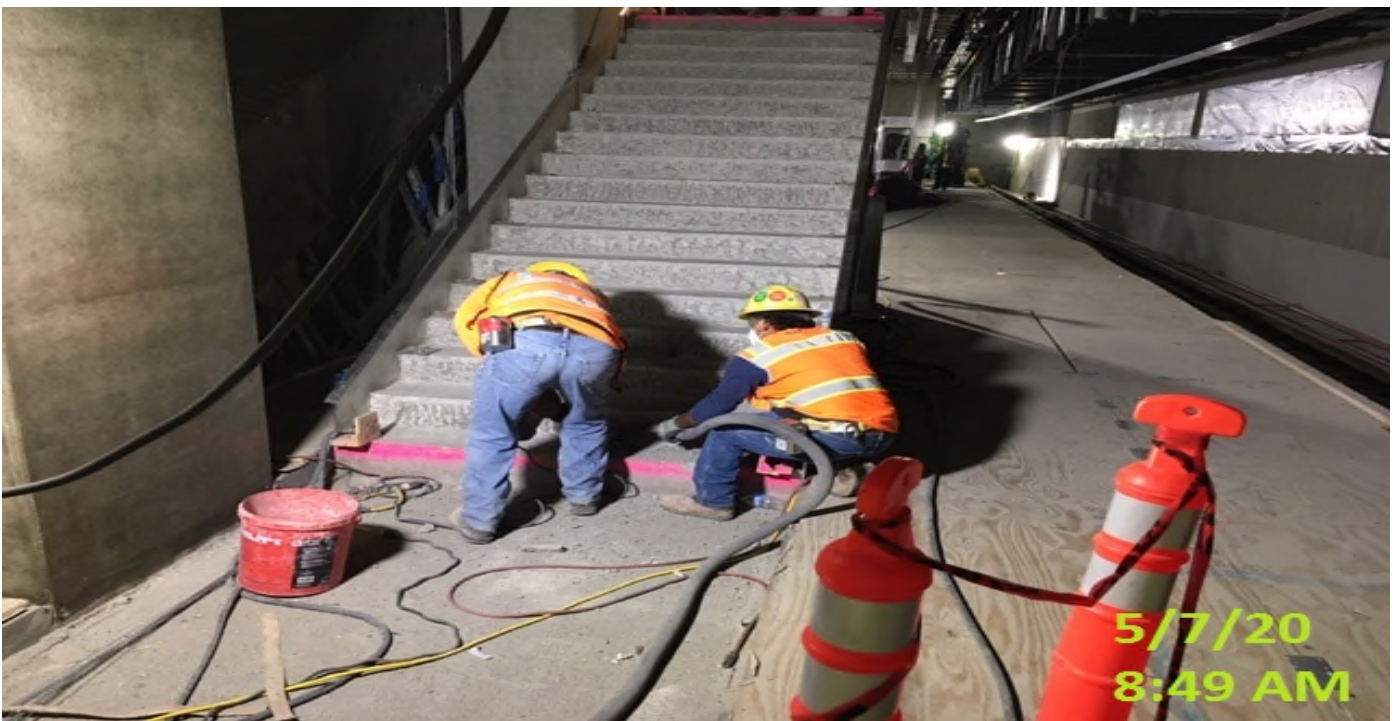


**EXPO STATION** – Began layout and granite riser installation for staircase #3 from concourse to platform level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**EXPO STATION** – Setting dowel pins in granite tread installation for staircase #3 from concourse to platform level.

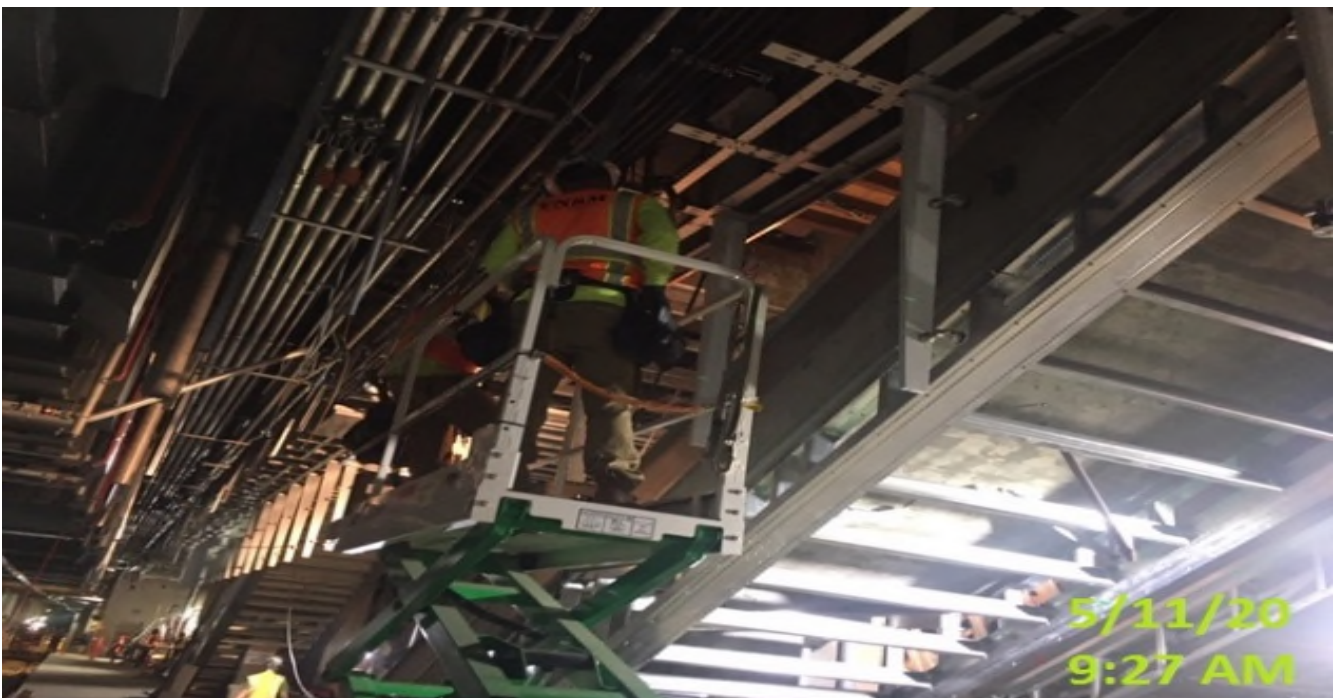


**EXPO STATION** – Continue granite tread and riser installation for staircase #3 from concourse to platform level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**EXPO STATION** – Installing metal steel framing at the underside of escalators 3&4 and stairwells 2&3 at the platform level.

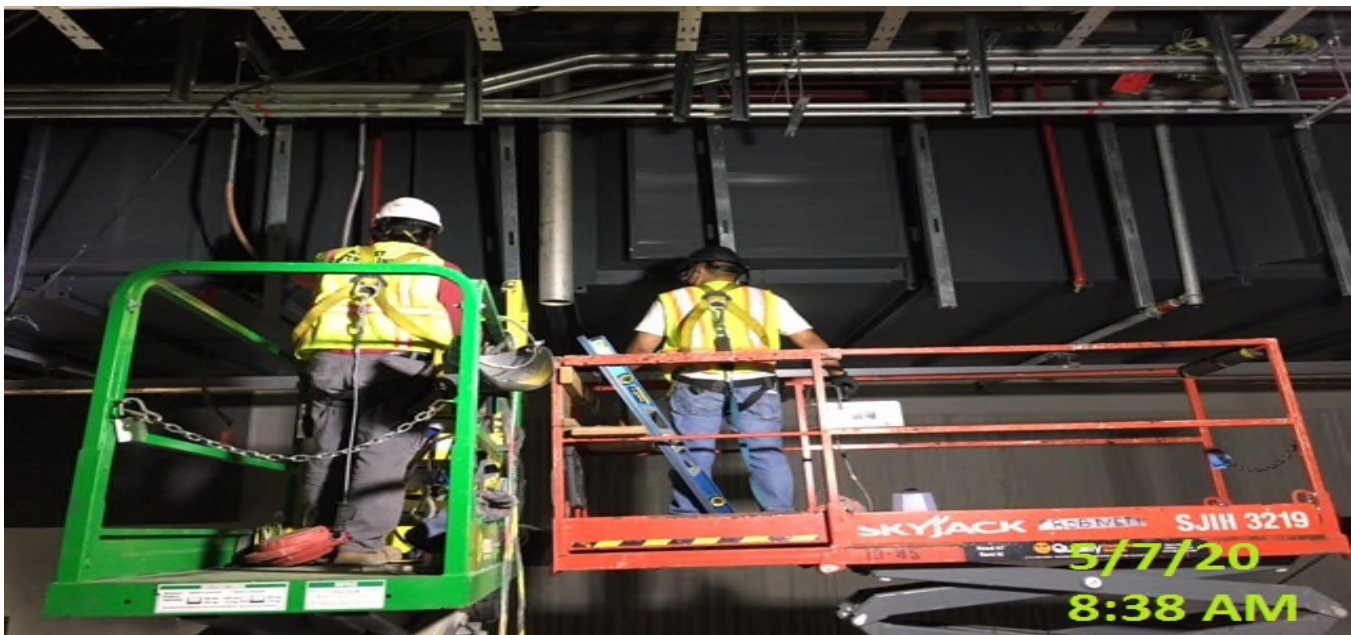


**EXPO STATION** – Continue installing metal steel framing at the underside of escalators 4 at the platform level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Resume welding for the platform edge lighting support posts.



EXPO STATION – Continue welding supports posts for the platform edge lighting.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

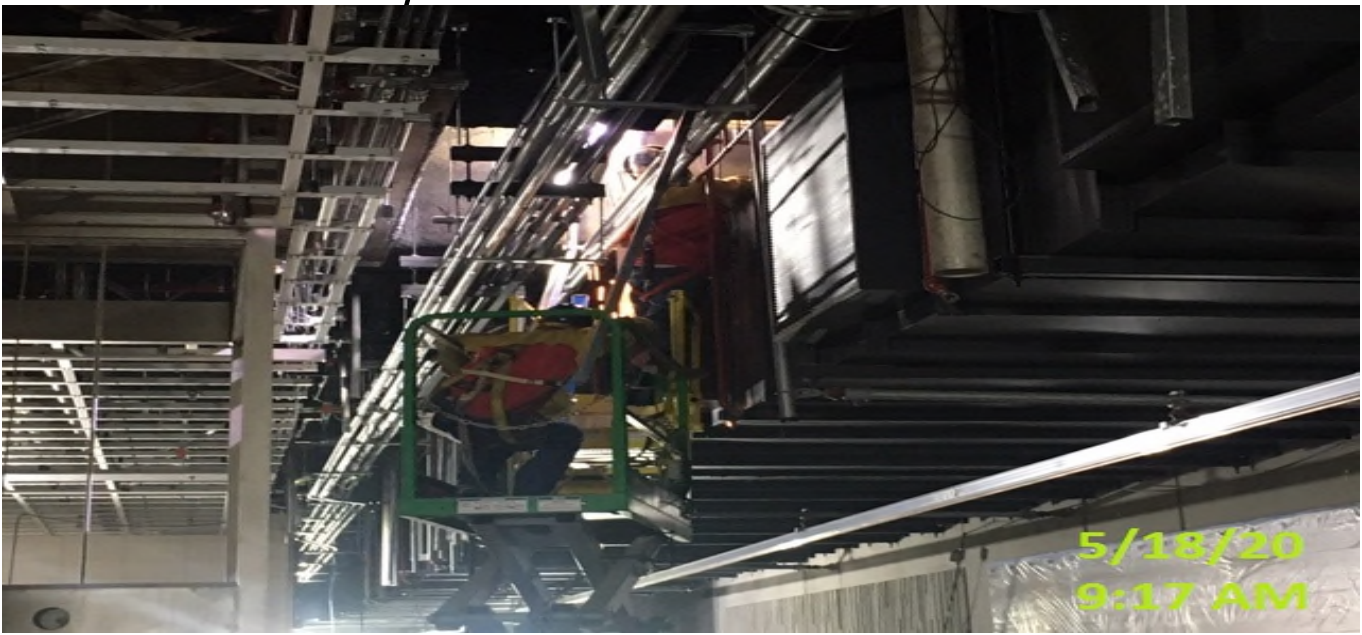


EXPO STATION – Continue welding supports posts for the platform edge lighting.



EXPO STATION – Continue welding supports posts for the platform edge lighting.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**EXPO STATION** – Continue welding supports posts for the platform edge lighting.



**EXPO STATION** – Excavating for new sidewalk installation on southbound Crenshaw Blvd between Exposition Blvd and Rodeo Blvd.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**EXPO STATION** – Finalized the new ADA ramp installation on Bronson Ave east of the plaza.



**EXPO STATION** – Grading for upcoming treatment swale installation on the east end of the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**EXPO STATION** – Placing concrete for the light pole foundations at the plaza level.



**EXPO STATION** – Continue surfacing walls of the north emergency ventilation shaft at the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Patching and surfacing walls for Elevator shafts 1&2 at the plaza level.

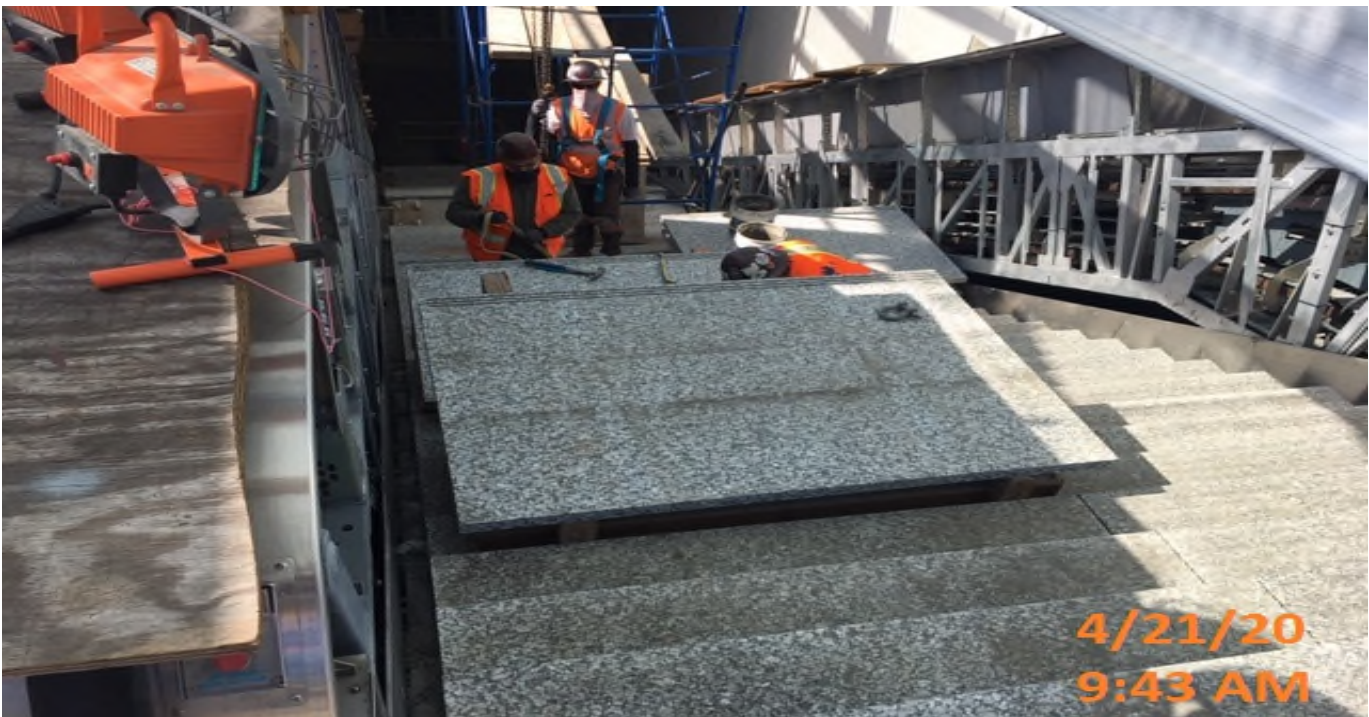


EXPO STATION – Continue patching and surfacing walls for Elevator shafts 1&2 at the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**EXPO STATION** – Continue granite stair tread installation at the main entrance staircase landing of the plaza level.



**EXPO STATION** – Continue granite stair tread installation at the main entrance staircase landing of the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**EXPO STATION** – Continue granite stair landing section installation at the main entrance staircase of the plaza level.

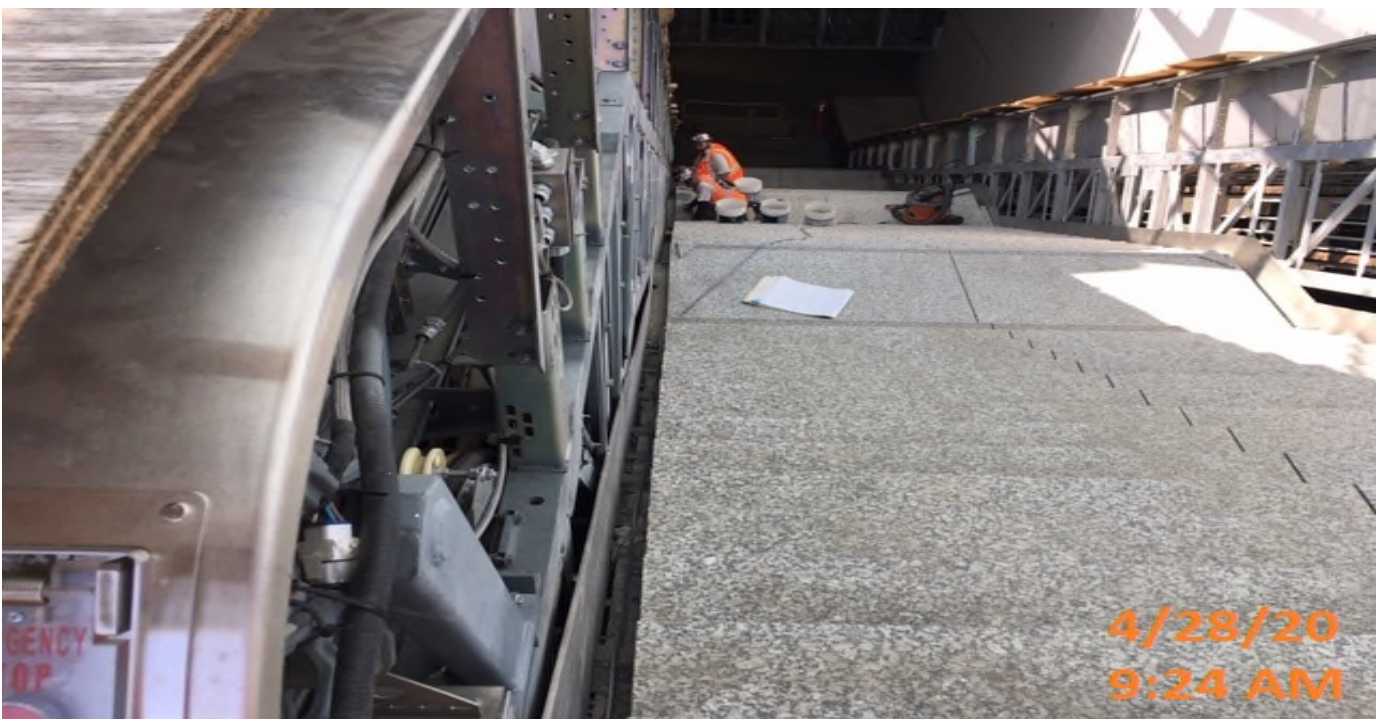


**EXPO STATION** – Continue granite stair landing section installation at the main entrance staircase of the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

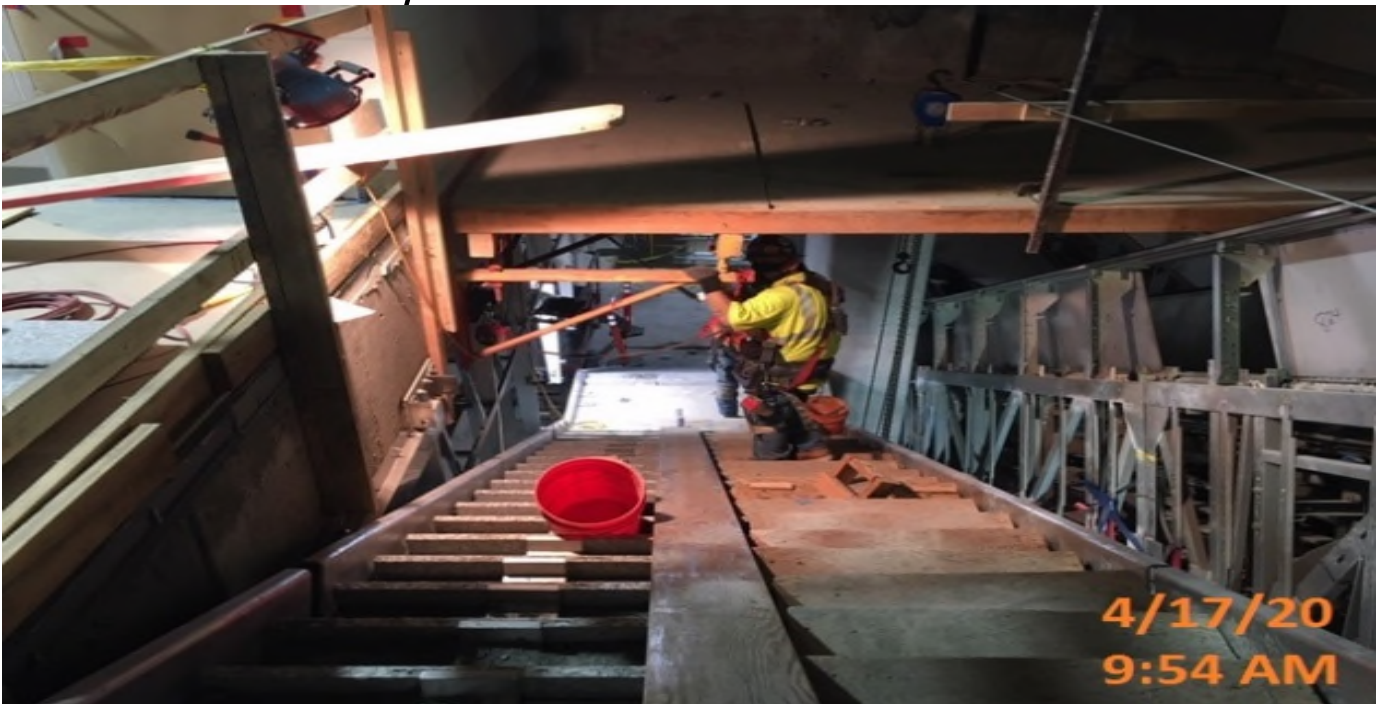


**EXPO STATION** – Continue granite runner section installation at the main entrance staircase of the plaza level.

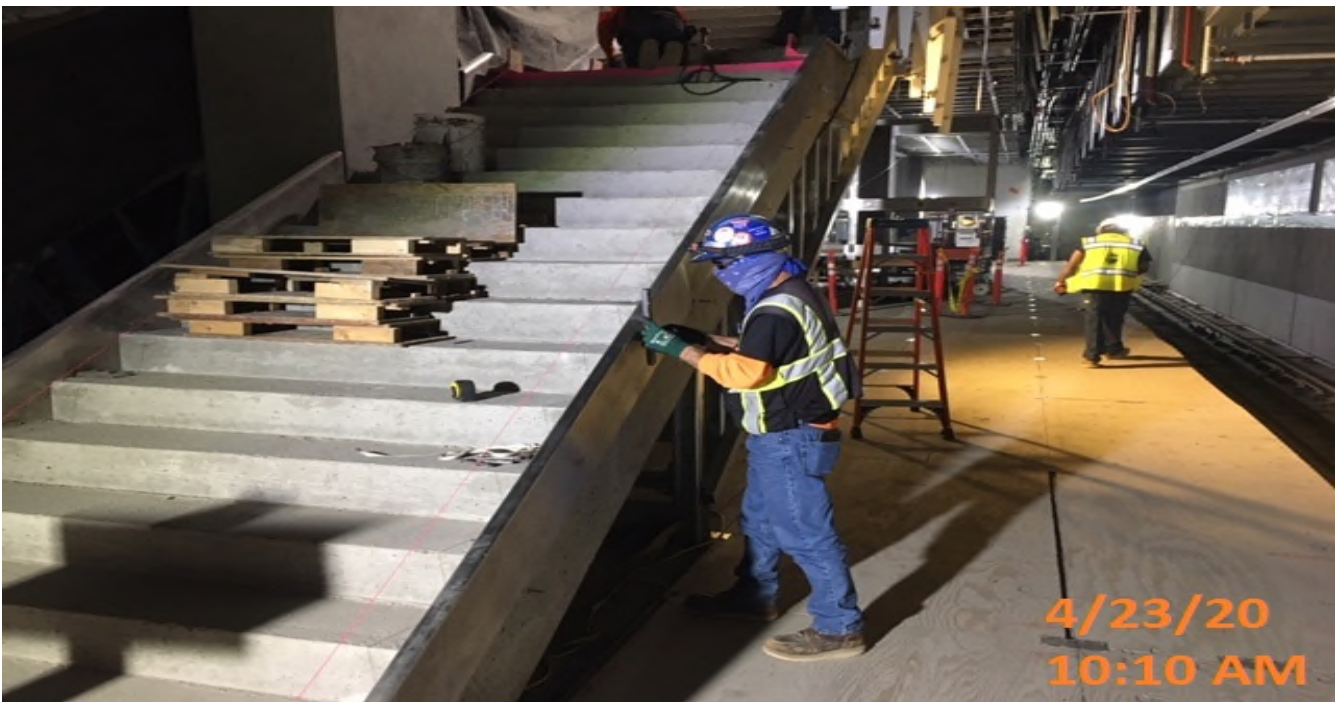


**EXPO STATION** – Continue granite runner section installation at the main entrance staircase of the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Continue installing granite risers for staircase #2 at the concourse level.



EXPO STATION – Measuring for post edge plate installation for staircase #3 at the platform level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



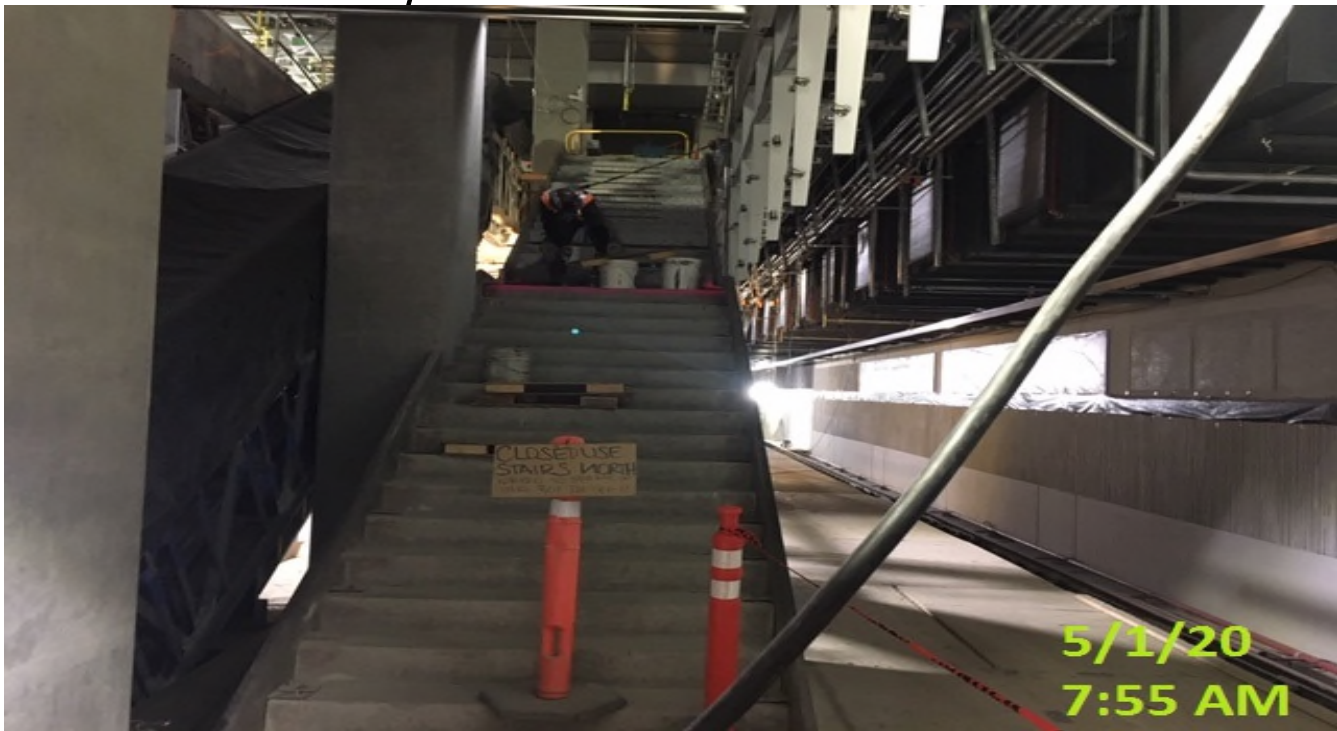
EXPO STATION – Surfacing and patching northbound stair landing on the south end of the platform level.



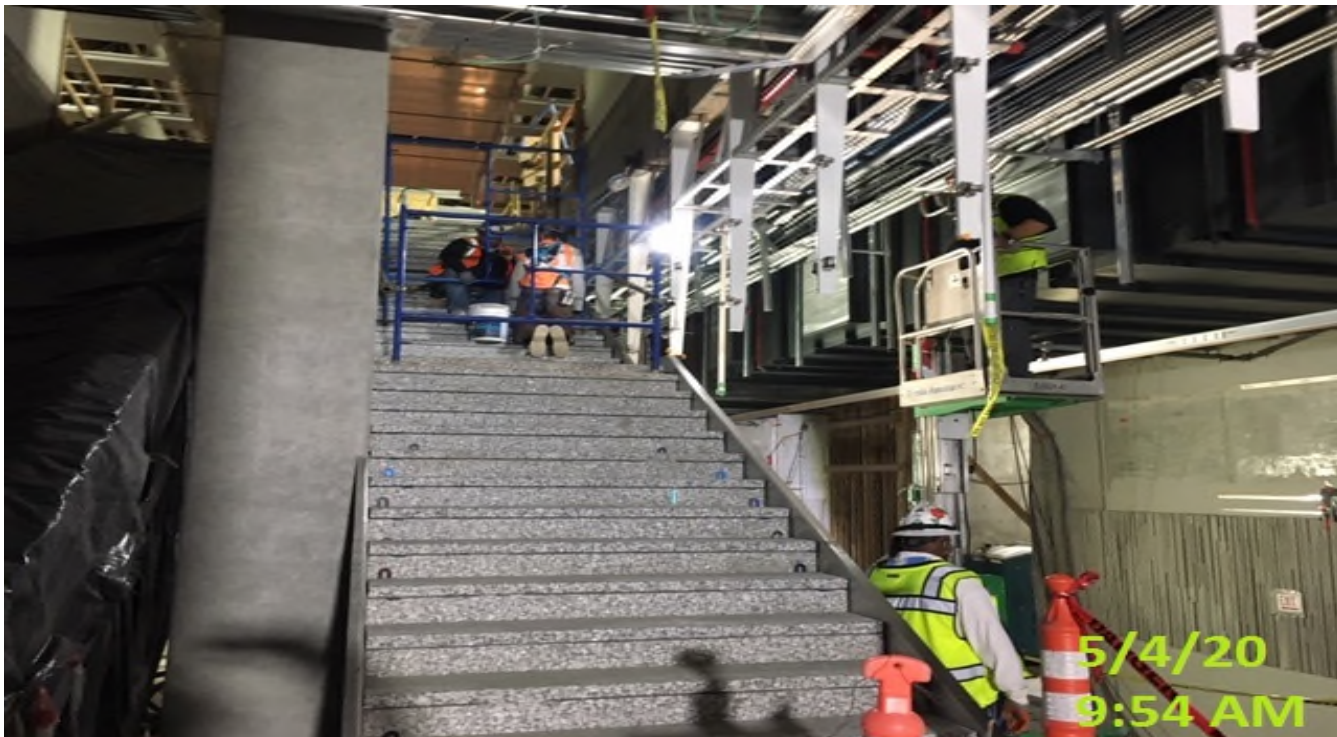
EXPO STATION – Conducting measurements for upcoming layout post installation on staircase #2 at the platform level.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Continue granite riser installation for staircase #2 at the platform level.



EXPO STATION – Continue granite riser installation for staircase #2 at the platform level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Applying anti-graffiti finish coat to all the columns at the platform level.

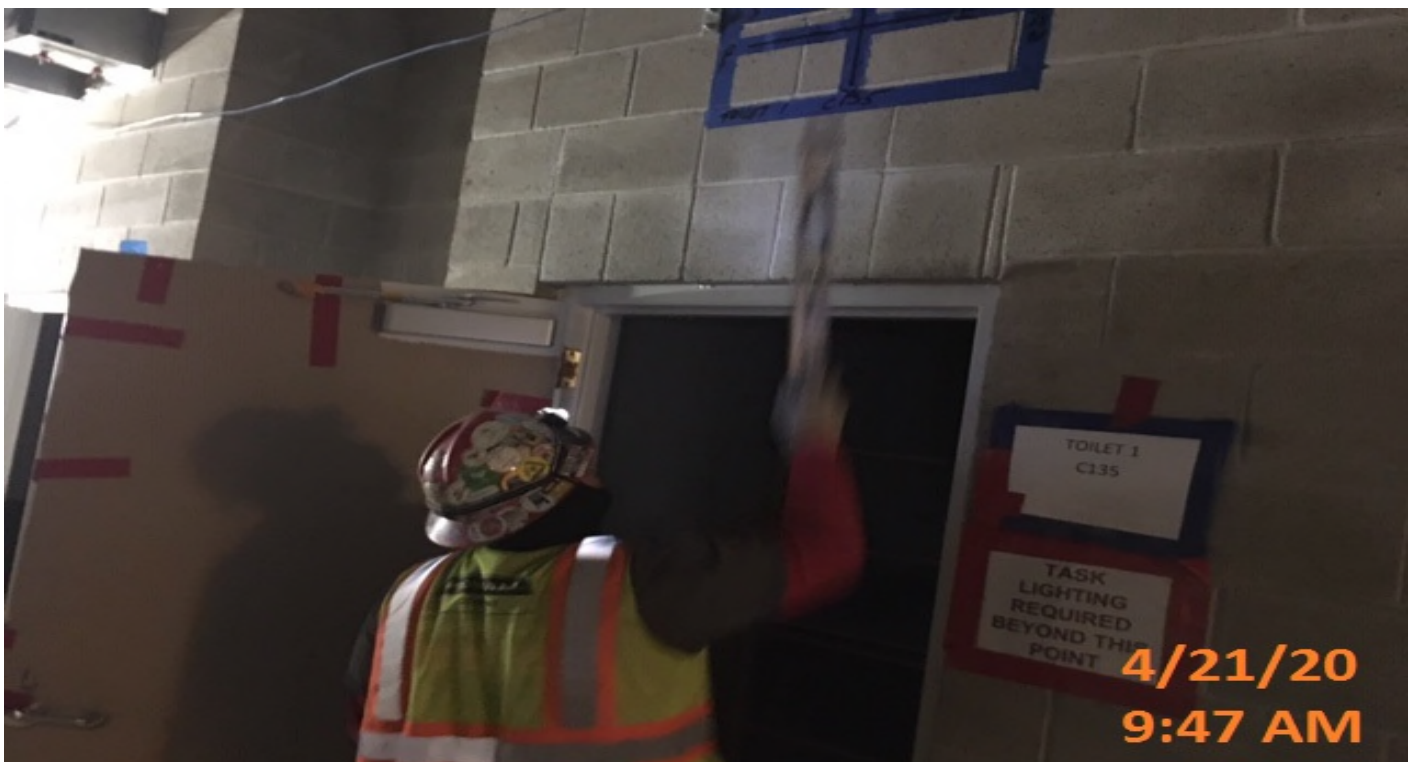


Crenshaw/Expo - EXPO – Carrera Marble installing landing sections at main staircase.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Expo - EXPO – WSCC finishers patching and surfacing walls of elevator shaft #1 and #2.



Crenshaw/Expo - EXPO – Penhall scanning CMU walls at concourse corridor prior to drilling.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Expo - EXPO – WSCC carpenters resetting bolt templates for plaza luminaires

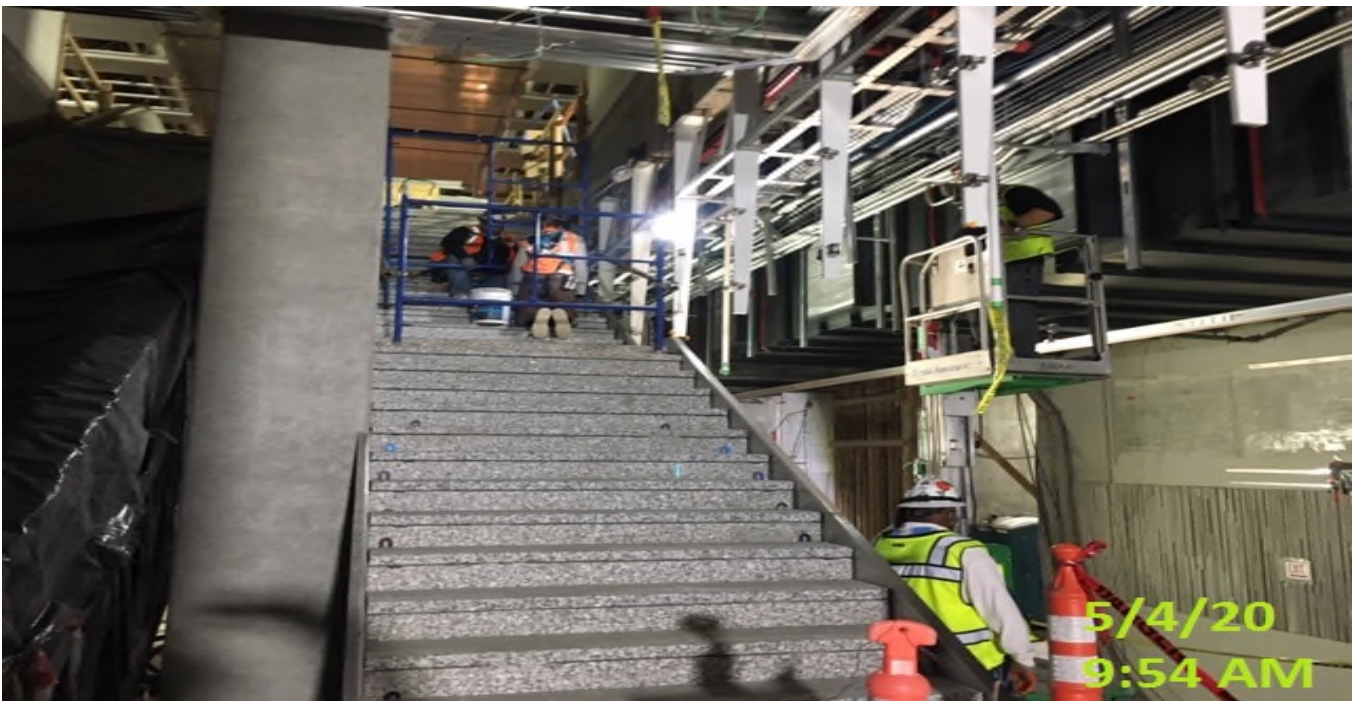


Crenshaw/Expo - EXPO – WSCC crew drilling and measuring for tree wells

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Expo - EXPO – Mariscal Painting applying prep anti-graffiti finish to columns.



Crenshaw/Expo - EXPO – Carrera Marble setting up hoist beam system with chain fall rigging.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Expo - EXPO – WSCC crew layout and adjusting measurements for plaza lighting.

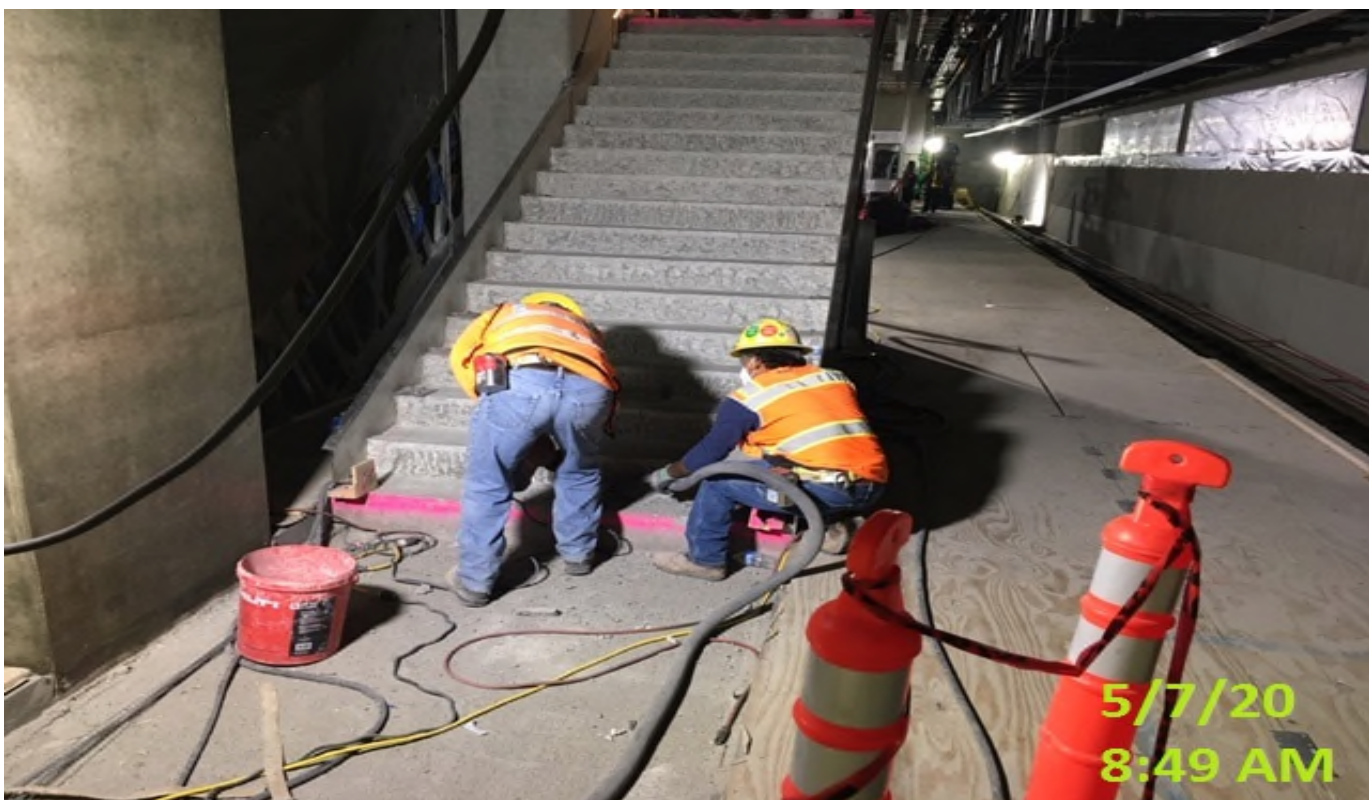


Crenshaw/Expo - EXPO – JF Shea potholing for conduit bank for Neal.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

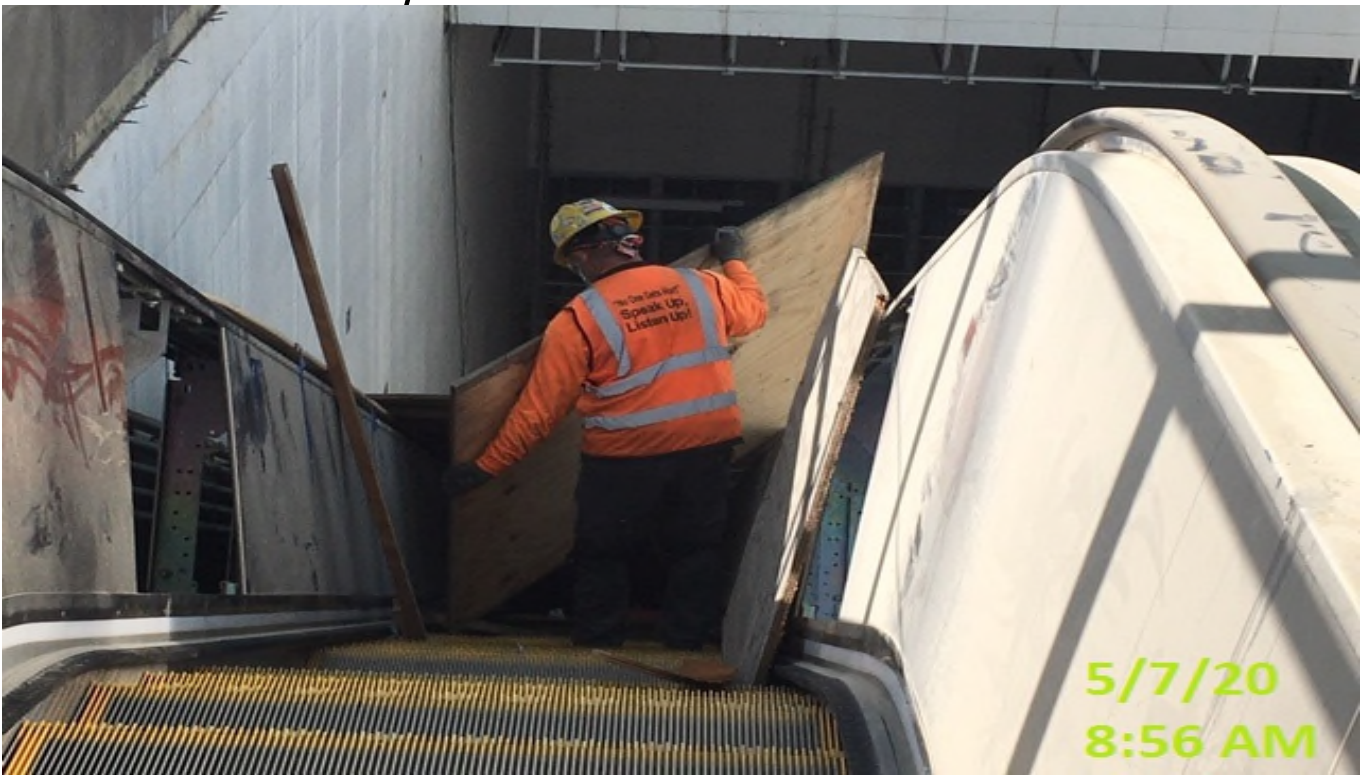


Crenshaw/Expo - WSCC ironworkers welding support post for platform edge lighting

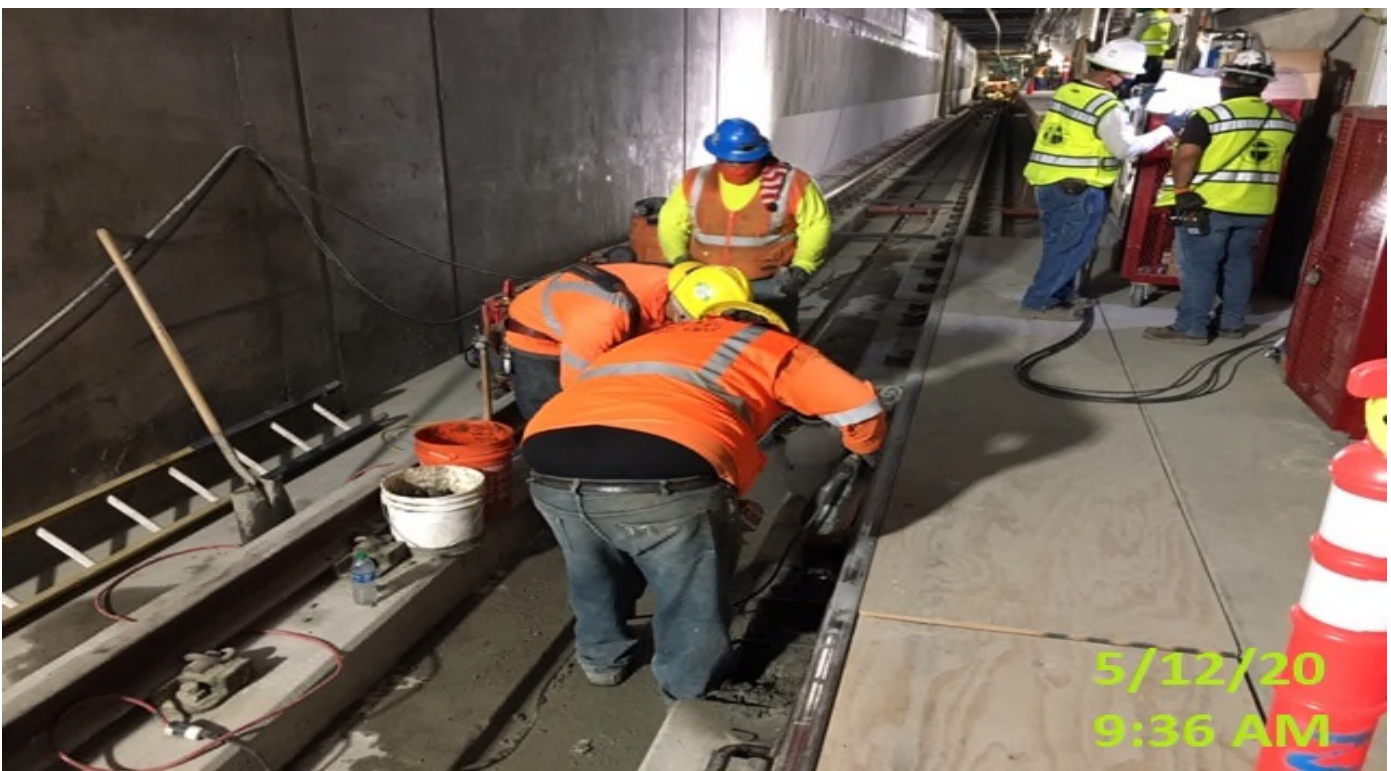


Crenshaw/Expo - EXPO – WSCC finisher chipping uneven areas from staircase #3.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



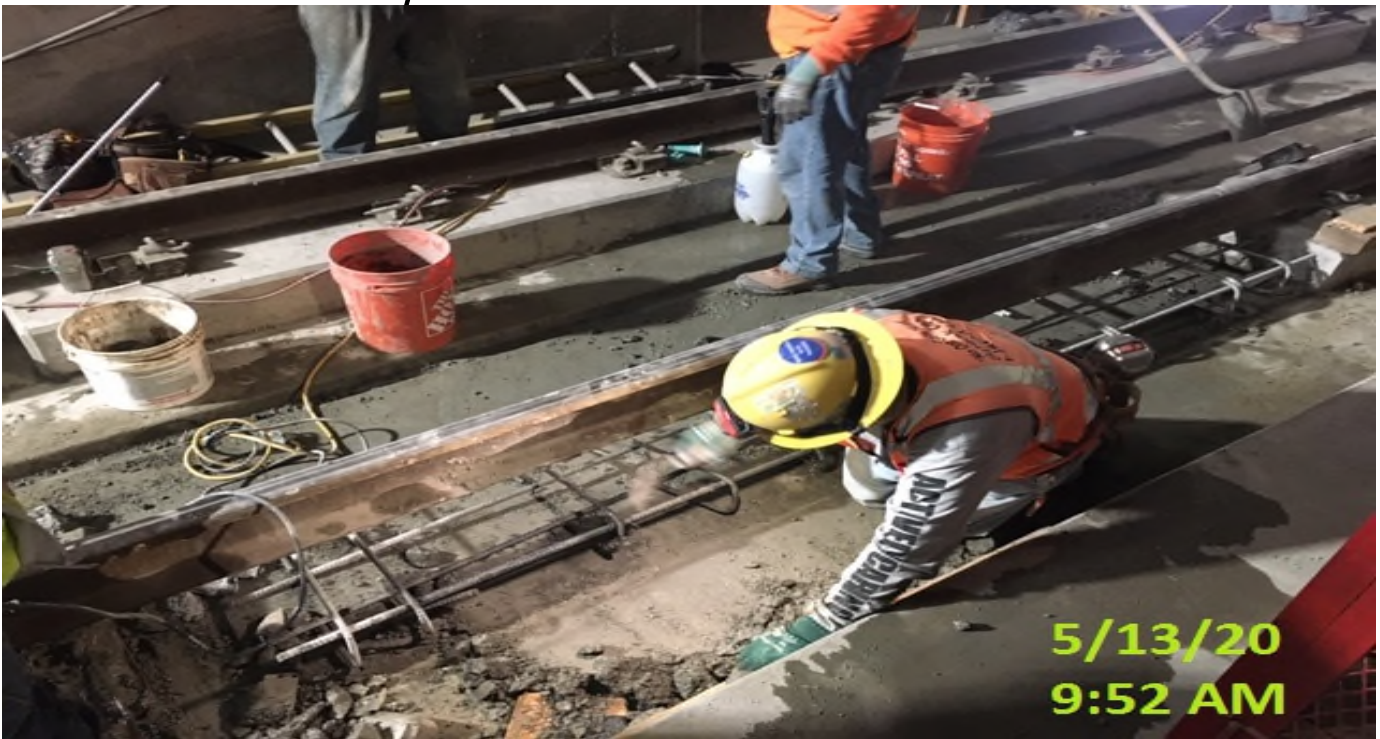
Crenshaw/Expo - WSCC carpenters stripping plywood from escalators at main stairwell.



Crenshaw/Expo - EXPO – WSCC crew demoing sections of plinth that did not pass pull test.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

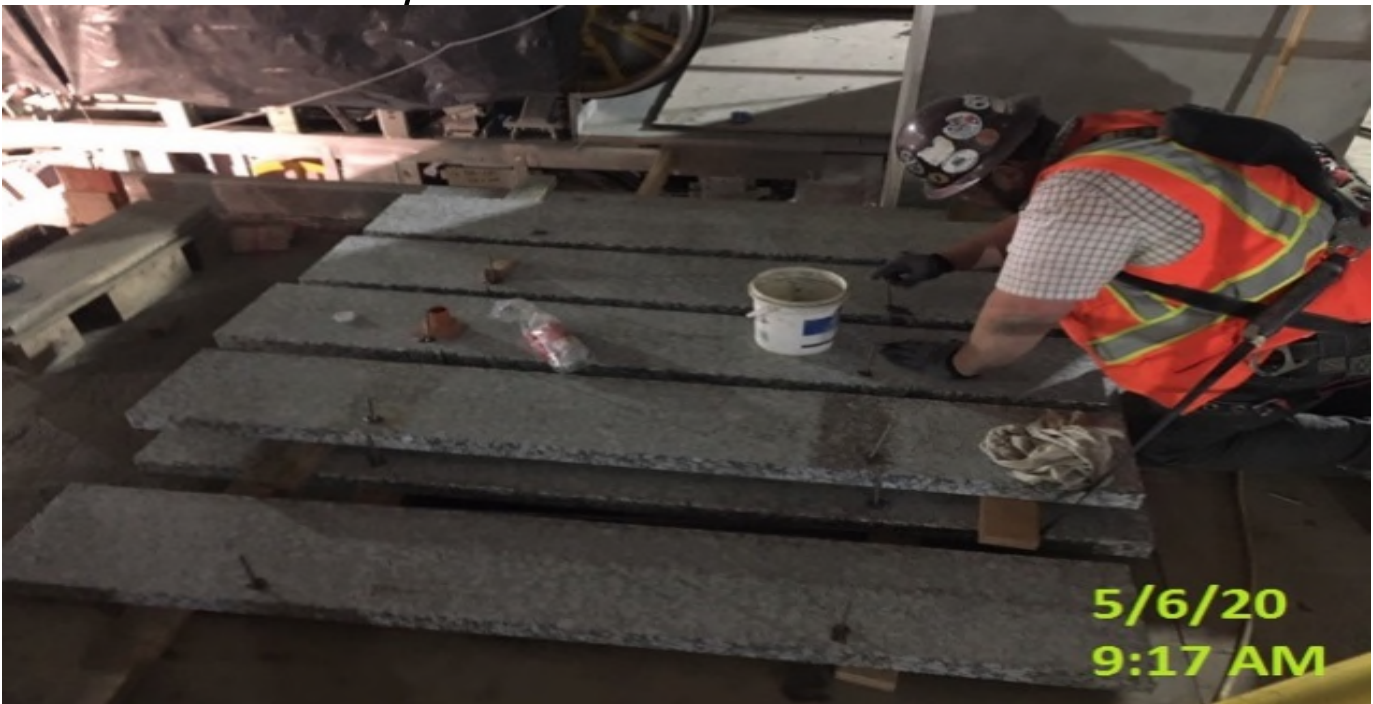


Crenshaw/Expo - EXPO – WSCC crew demoing sections of plinth that did not pass pull test.



Crenshaw/Expo - LKC torquing the flex-bus between the rectifier and bus duct.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO – Carrera Marble at platform setting dowel pins in granite treads for stair#3.



EXPO – Badger pumping water out from elevator jack shaft below pit at platform elevator #1 and #2.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO – WSCC crew bulk heading trench and prepping for concrete placement.



EXPO – Ironworkers welding support poles for edge lighting.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO – WSCC crew trenching for Select Electric to lay 1' conduit for sidewalk lighting.



MLK Station - Installing motor for the overhead coiling grille door to the main entrance canopy at the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK Station - MLK – WSCC crew back filling area surrounding back flow valve



MLK STATION – Resume backfilling areas around the water backflow preventer valve on the east side of the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**MLK STATION** – Continue trenching for 12” HDPE drainage pipe system at the northern section of the plaza level.



**MLK STATION** – Continue trenching and potholing for 12” HDPE drainage pipe system at the northern section of the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**MLK STATION** – Continue excavating for 12” HDPE drainage pipe system at the northwest section of the plaza level.



**MLK STATION** – Continue excavating for 12” HDPE drainage pipe system at the northwest section of the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**MLK STATION** – Continue laying out 12” HDPE drainage pipe system at the northwest section of the plaza level.



**MLK STATION** – Continue excavating/laying out 12” HDPE drainage pipe system at the northwest section of the plaza level.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**MLK STATION** – Continue excavating/laying out 12” HDPE drainage pipe system connecting to Catch Basin#3 at the northern section of the plaza level.



**MLK STATION** – Continue laying out 12” HDPE drainage pipe system connecting to Catch Basin#3 at the northern section of the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK STATION – Setting rebar into sonotube formwork for pedestrian light pole foundations throughout the plaza level.

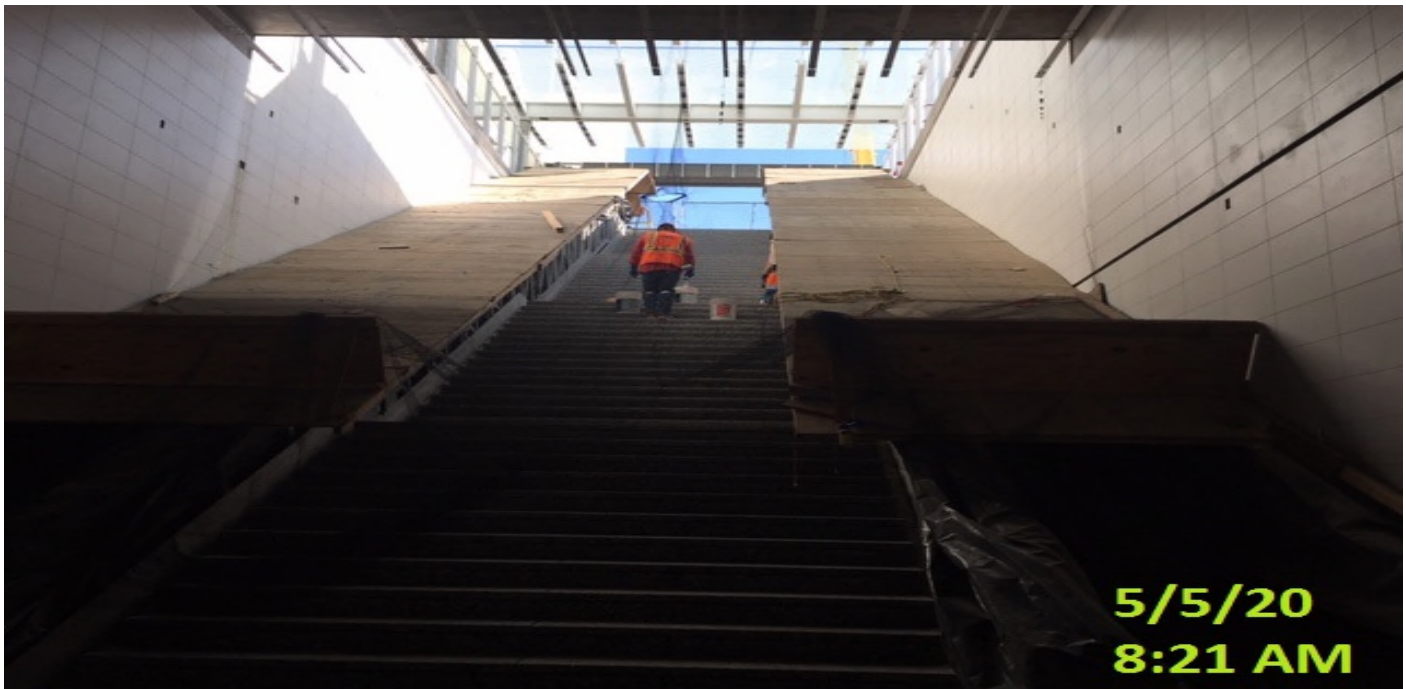


MLK STATION – Continue potholing for upcoming tree well installation throughout the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK STATION – Installing gutter support for the overhead coiling grille at the main entrance canopy structure.



MLK STATION – Continue grouting risers and pavers at the main entrance staircase landing of the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

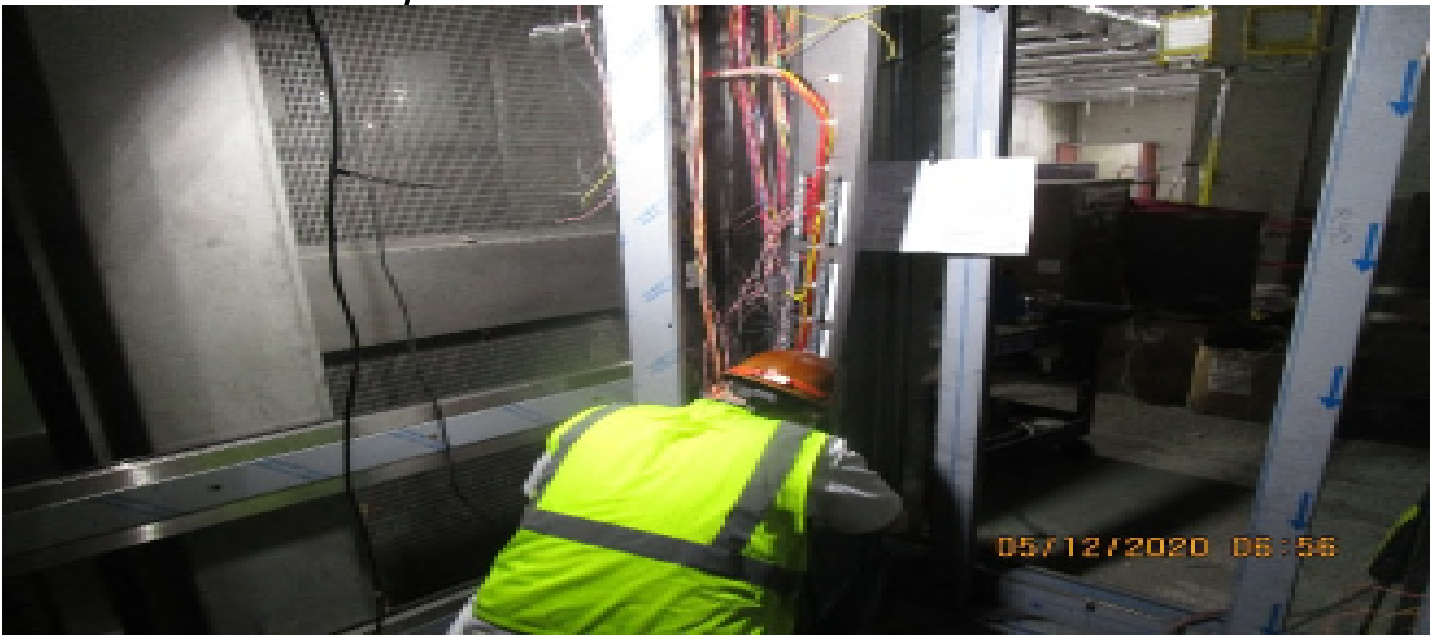


**MLK STATION** – Continue hardware support installation for TFD-7-122 in the North Emergency Fan Room C – 142 of the concourse level.

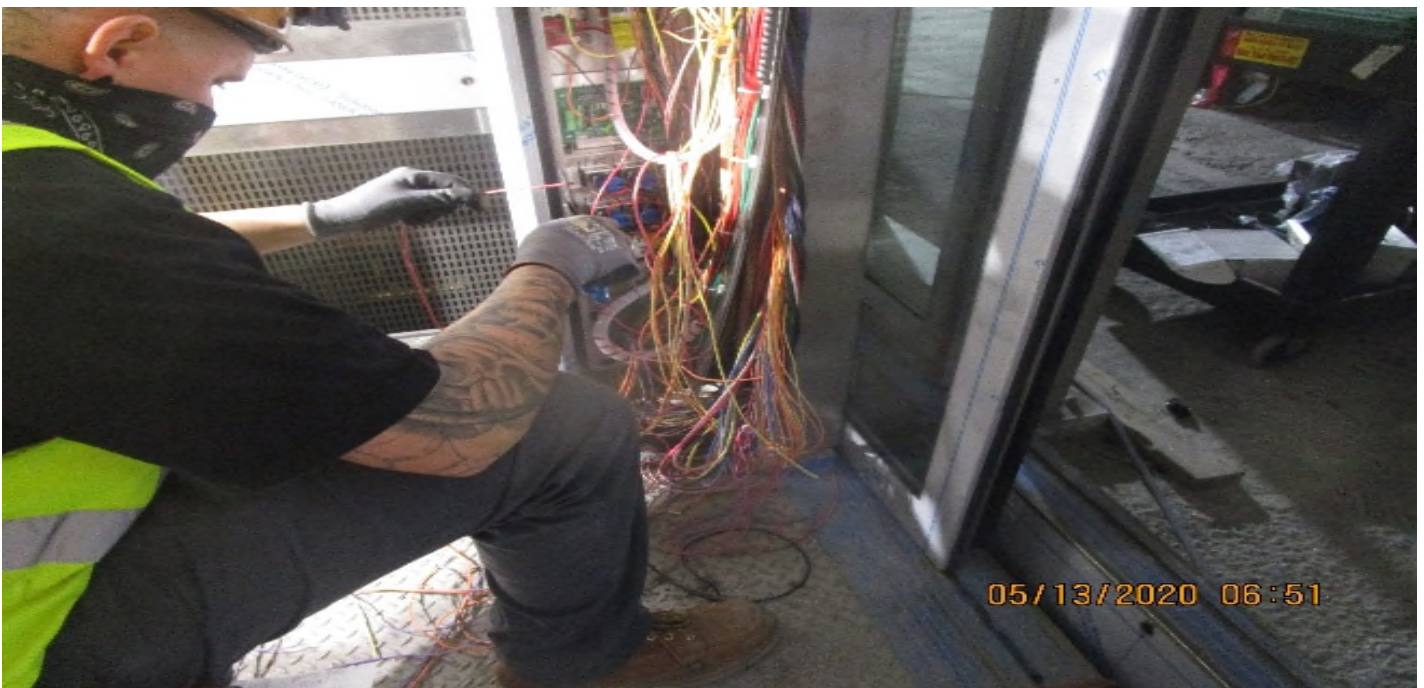


**MLK STATION** – Installing damper sections and began actuator layout for TFD-7-122 in the North Emergency Fan Room C – 142 of the concourse level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**MLK STATION** – Continue wire termination for the control operating panels for Elevator 4 at the concourse level.



**MLK STATION** – Continue wire termination for the control operating panels for Elevator 4 at the concourse level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK STATION – Applying sealer prior to anti-graffiti finish coat to all the columns at the platform level.



MLK STATION – Preparing for primer application to the ceiling conduits at the platform level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

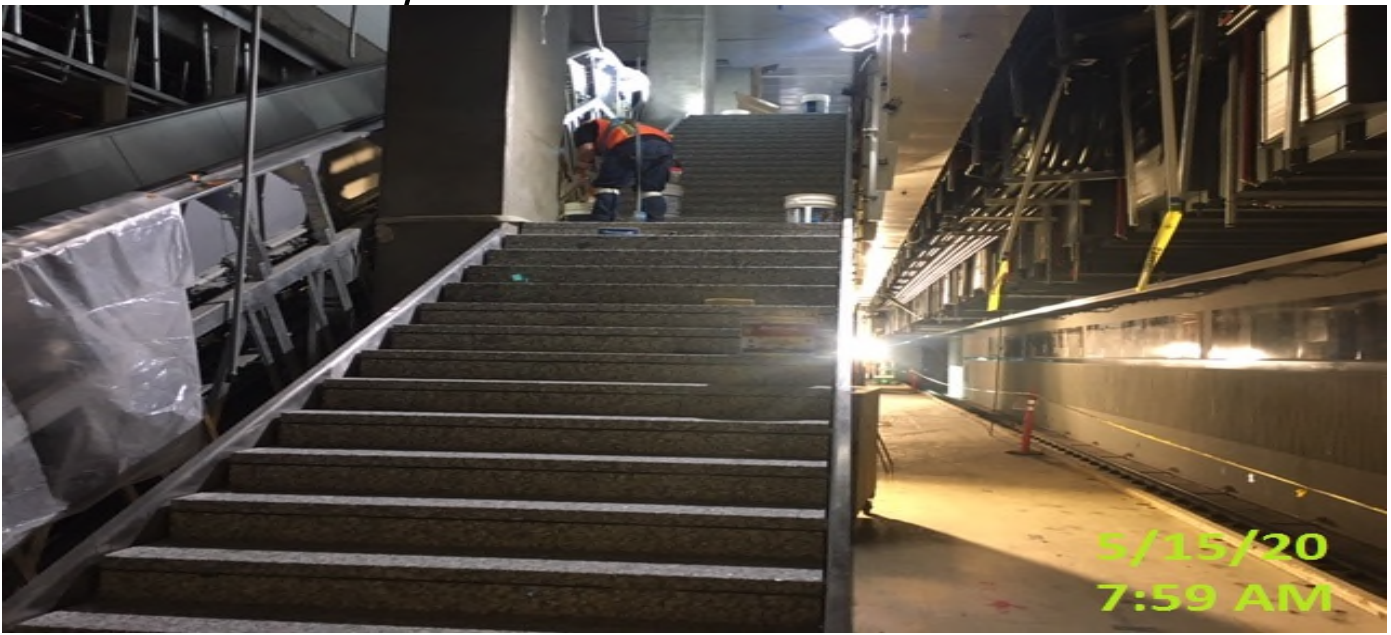


MLK STATION – Continue preparing for primer application to the ceiling conduits at the platform level.



MLK STATION – Continue grouting and installing granite risers and treads for staircase 3 from concourse to platform level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**MLK STATION** – Continue grouting and installing granite risers and treads for staircase 3 from concourse to platform level.



**MLK STATION** – Applying finish paint to the ceiling conduits at the platform level.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK Station - MLK – WSCC crew trenching for HDPE 12” drain pipe.



MLK Station - MLK – Ironworkers cutting escalator support column at platform.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK – Mariscal Painting applying sealer to columns prior to anti-graffiti finish



MLK – WSCC excavating to continue laying 12" HDPE drain line

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK Concourse, Emergency fan room (S) C102 Begin pulling EVF-6-121 (6) 500 kcmils feeders & (9) 1/0's.



MLK Concourse, TC&C Room C113, Continued continuity testing of 1 pair #14 fire alarm strobe wiring.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK - Train Control Cable Pulled in the TC&C Room, MLK Station, Looking North

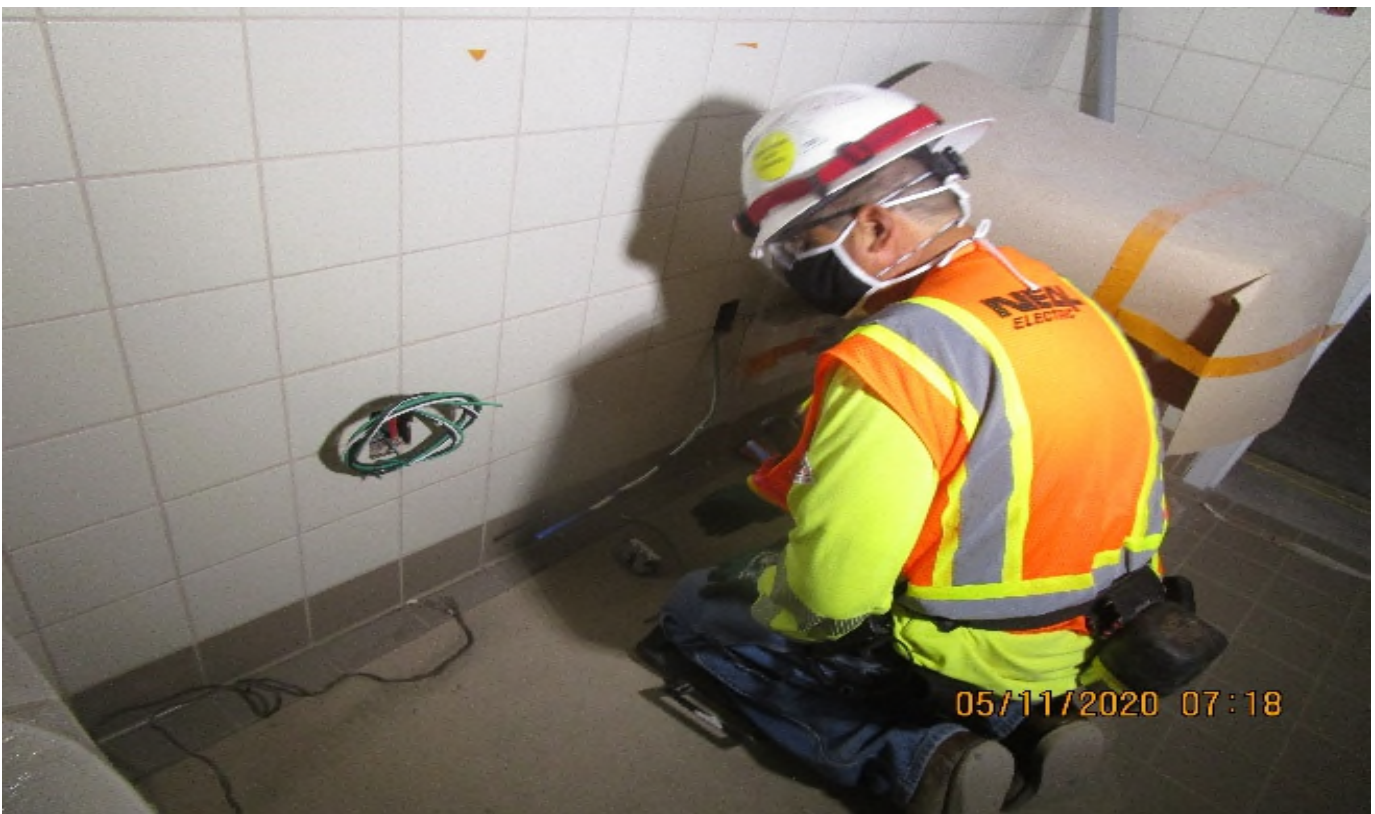


MLK, Emergency fan room (N) C140, continued rough in support hardware TFD-7-122 for (6) damper sections

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

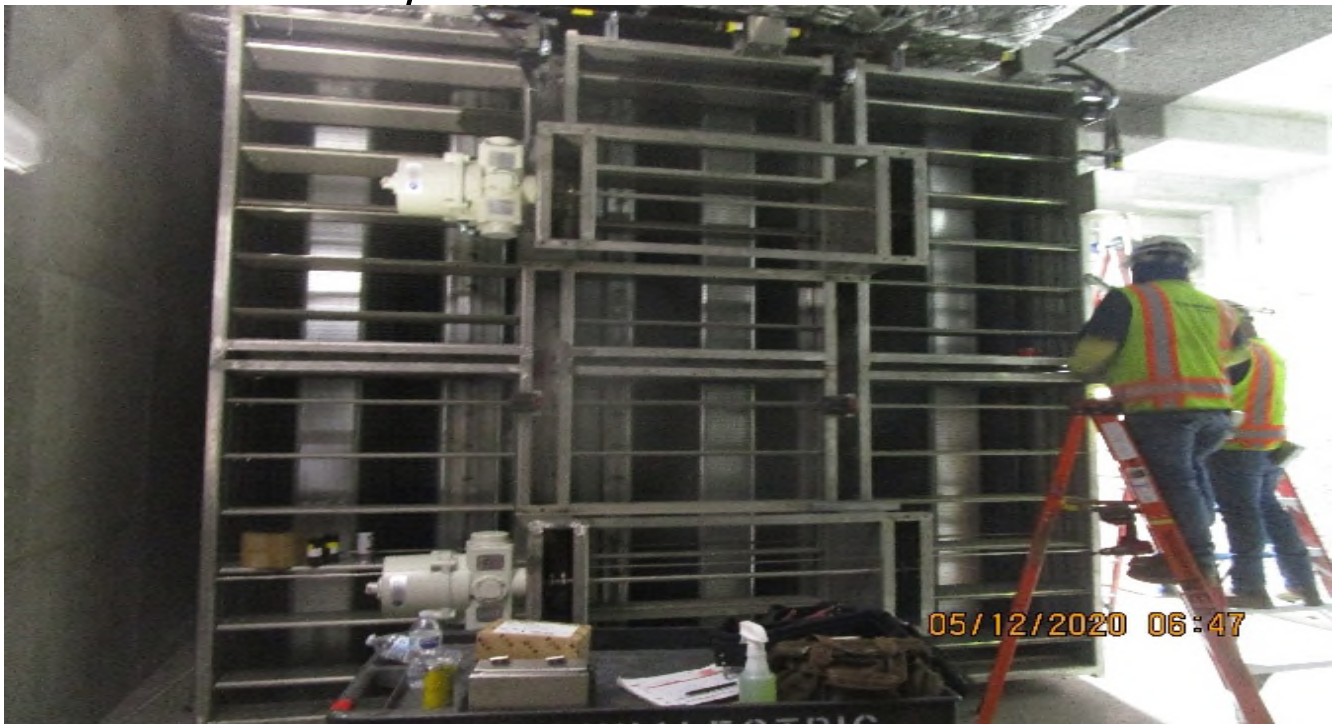


MLK - STA 402+00 TK#3/SB looking north – system work UG4 MLK Station.

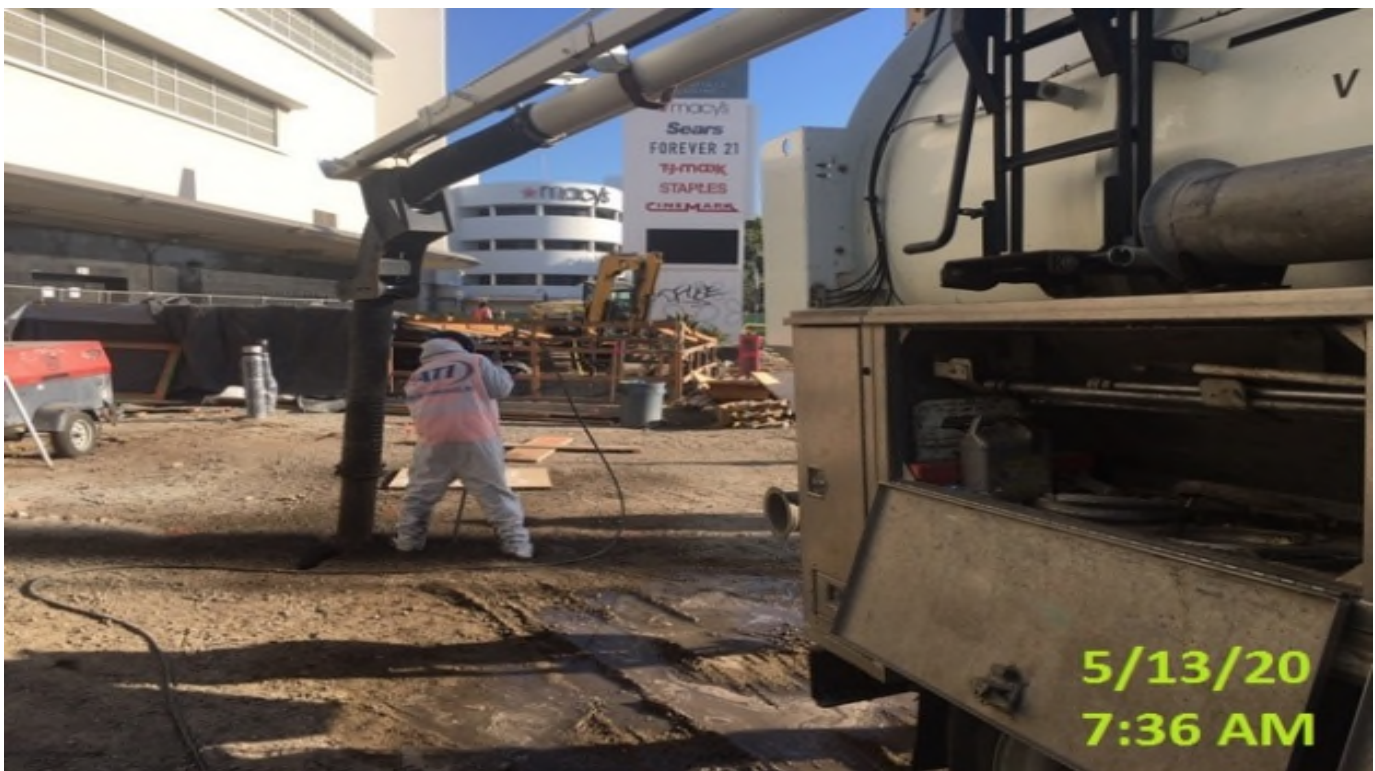


MLK Concourse, Toilet room C122 & Storage room C123, begin terminating receptacles, id, label & install plate covers.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK, Tunnel vent plenum southeast C107, TFD-7-321, begin rough in Nema4X JB's, 1" FRP limit switches



MLK – WSCC potholing for tree wells and plaza lighting foundations.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK – WSCC carpenters setting rebar cages in sono tubes for plaza lighting footings



MLK STATION – Excavating for new 12” HDPE drainage pipe adjacent to Elevators 1&2 at the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK STATION – Continue excavating for new 12” HDPE drainage pipe adjacent to Elevators 1&2 at the plaza level.



MLK STATION – Continue excavating for new 12” HDPE drainage pipe adjacent to the main entrance canopy structure at the plaza level.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK STATION – Continue excavating for new 12” HDPE drainage pipe adjacent to the main entrance canopy structure at the plaza level.



MLK STATION – Backfilling areas around the water backflow preventer valve on the east side of the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK STATION – Continue excavating for new 12” HDPE drainage pipe adjacent to the main entrance canopy structure at the plaza level.



MLK STATION – Installing 12” HDPE drainage pipe on the west side of the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK STATION – Continue installing 12” HDPE drainage pipe on the west side of the plaza level.



MLK STATION – Resume backfilling areas around the water backflow preventer valve on the east side of the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK STATION – Grouting pavers at the top landing of the main entrance structure of the plaza level.



MLK STATION – Continue excavation/demolishing of the eastbound sidewalk on the northwest corner of the plaza.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**MLK STATION** – Continue excavation/demolishing of the eastbound sidewalk on the northwest corner of the plaza.

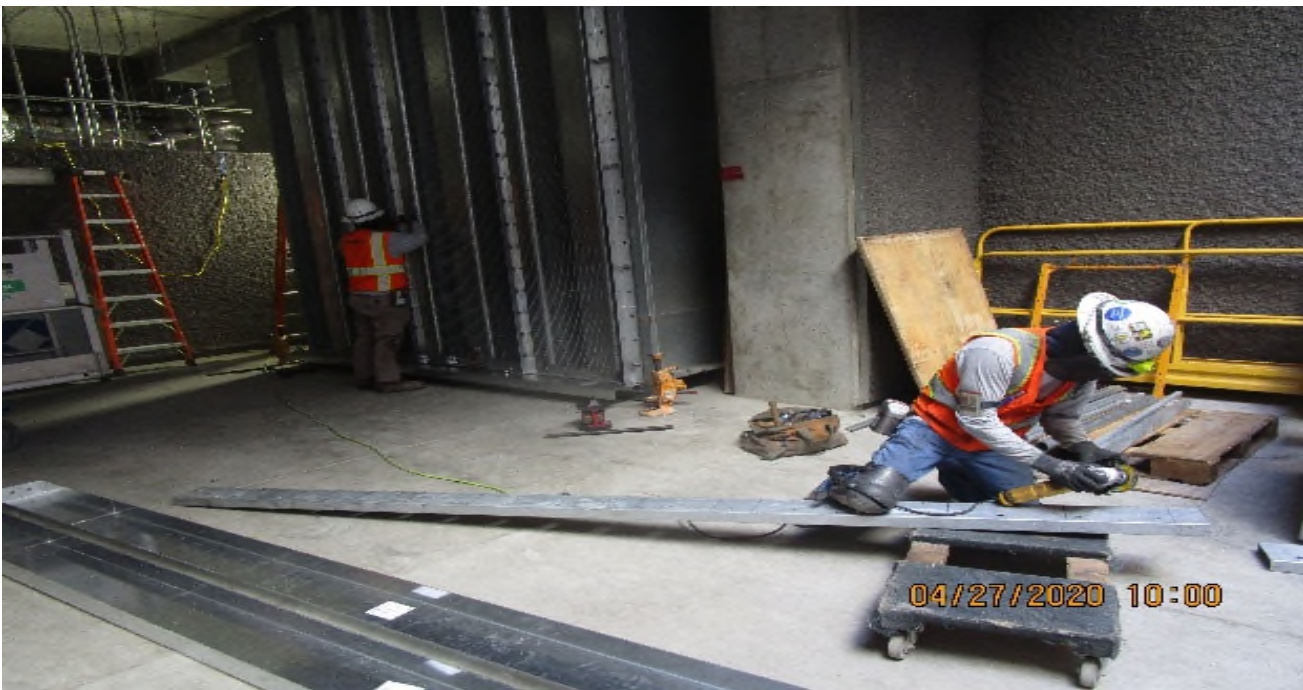


**MLK STATION** – Continue excavation/demolishing of the eastbound sidewalk on the northwest corner of the plaza.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**MLK STATION** – Potholing and drilling to confirm placement of tree well installation at the northeast corner of the plaza.



**MLK STATION** – Installing bird screen protection and hardware support to TFD-7-121 in the South Tunnel Vent Plenum C – 103 of the concourse level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**MLK STATION** – Continue bird screen protection and hardware support to TFD-7-121 in the South Tunnel Vent Plenum C – 103 of the concourse level.



**MLK STATION** – Began bird screen protection and hardware support installation to TFD-7-322 in the North Tunnel Vent Plenum C – 140 of the concourse level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK STATION – Continue hardware support installation to TFD-7-322 in the North Tunnel Vent Plenum C – 140 of the concourse level.



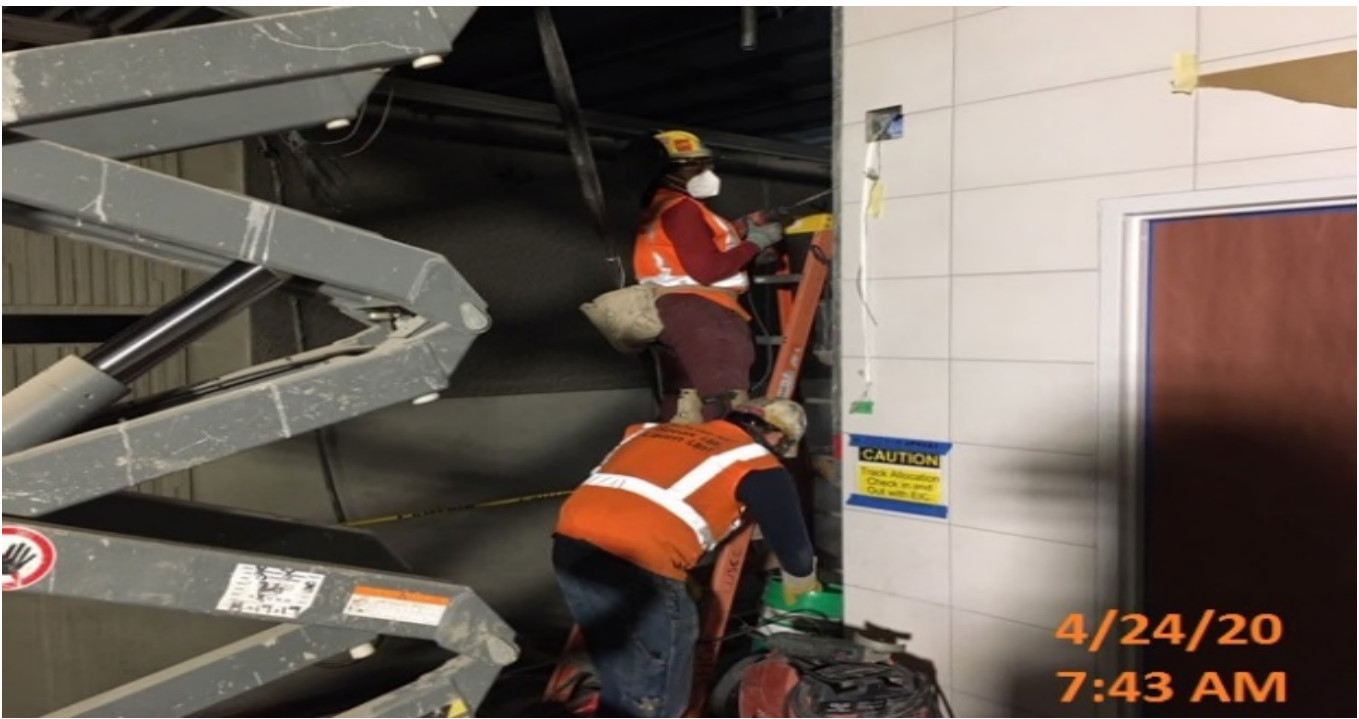
MLK STATION – Continue hardware support installation to TFD-7-322 in the North Tunnel Vent Plenum C – 140 of the concourse level.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

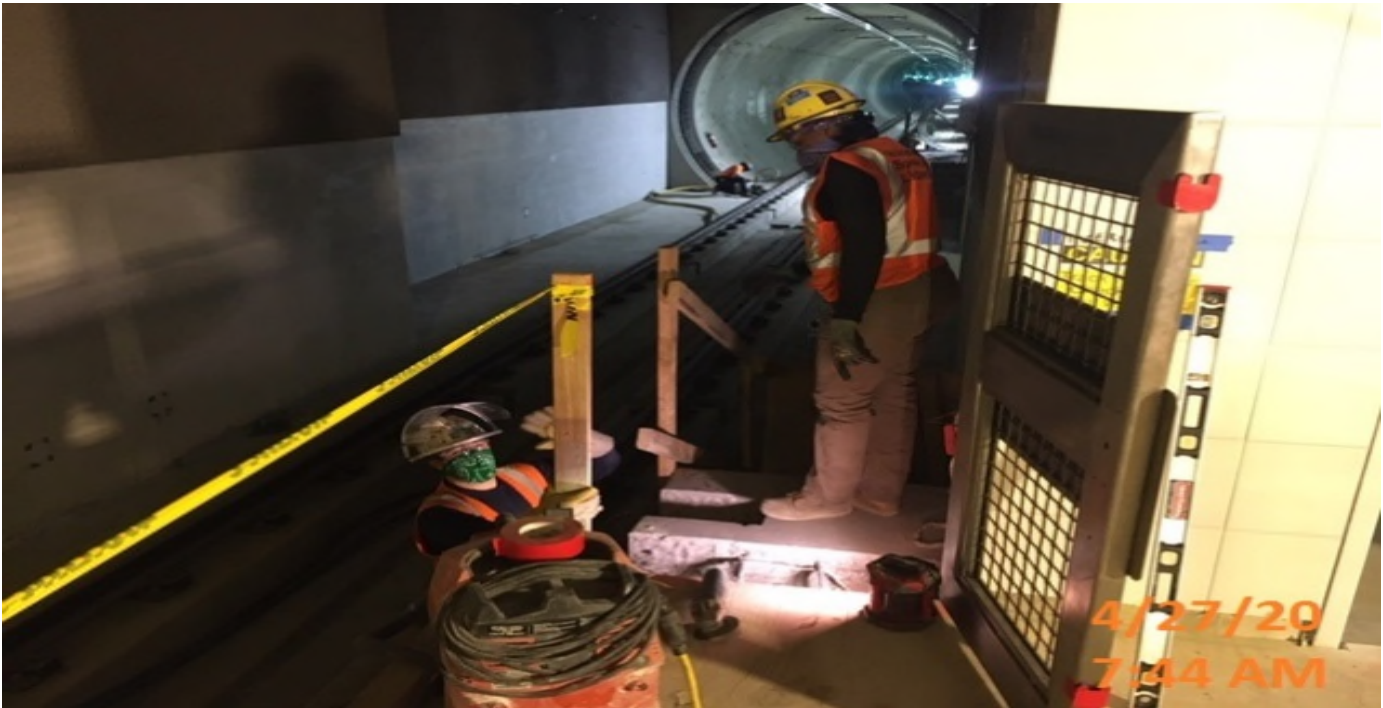


MLK STATION – Resume installation of ceiling light fixtures at the concourse level.



MLK STATION – Continue end gate installation at the south and northbound stair landings of the south end of the platform level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**MLK STATION** – Continue end gate installation at the south and northbound stair landings of the south end of the platform level.



**MLK STATION** – Installing header and grinding welds for the south end platform end gates.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/MLK - MLK – McKendry Door installing motor for rolling door grille



Crenshaw/MLK - MLK – WSCC crew patching voids prior to base cove tile install.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

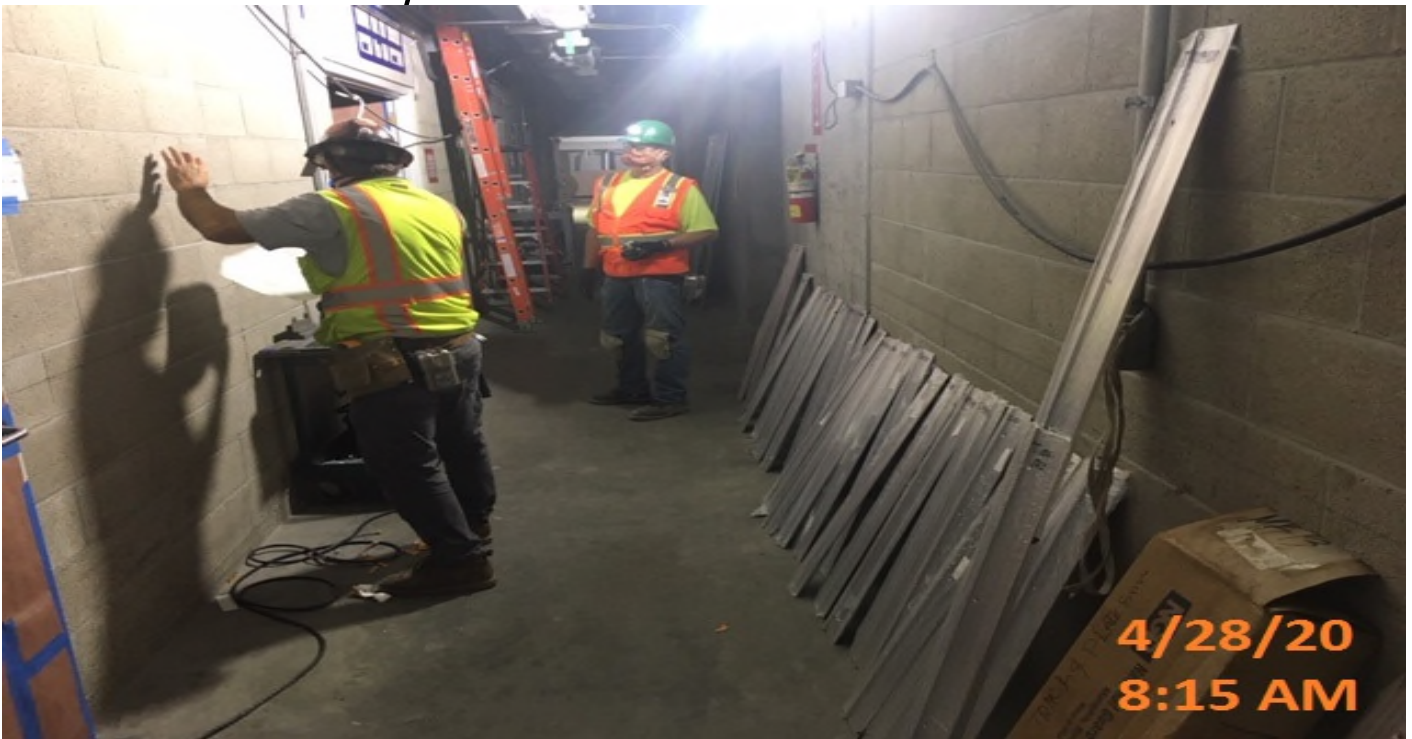


Crenshaw/MLK - MLK – WSCC crew excavating for new 12” drain pipe.



Crenshaw/MLK - MLK – WSCC Ironworkers installing header for platform end gates.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/MLK - MLK – EDI fitting and cutting doorway thresholds.



Crenshaw/MLK - MLK, North platform, Northbound continued rough in (3) 2" GRC Radiax cable support conduit, supports & racks.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/MLK - MLK, Tunnel vent plenum southwest C103, continued rough in actuators & limit switches at TFD-7-121.



Crenshaw/MLK - MLK – WSCC crew excavating and demoing walkways and sidewalks

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/MLK - MLK – MLK – Keller injecting new resin material into grout boxes.

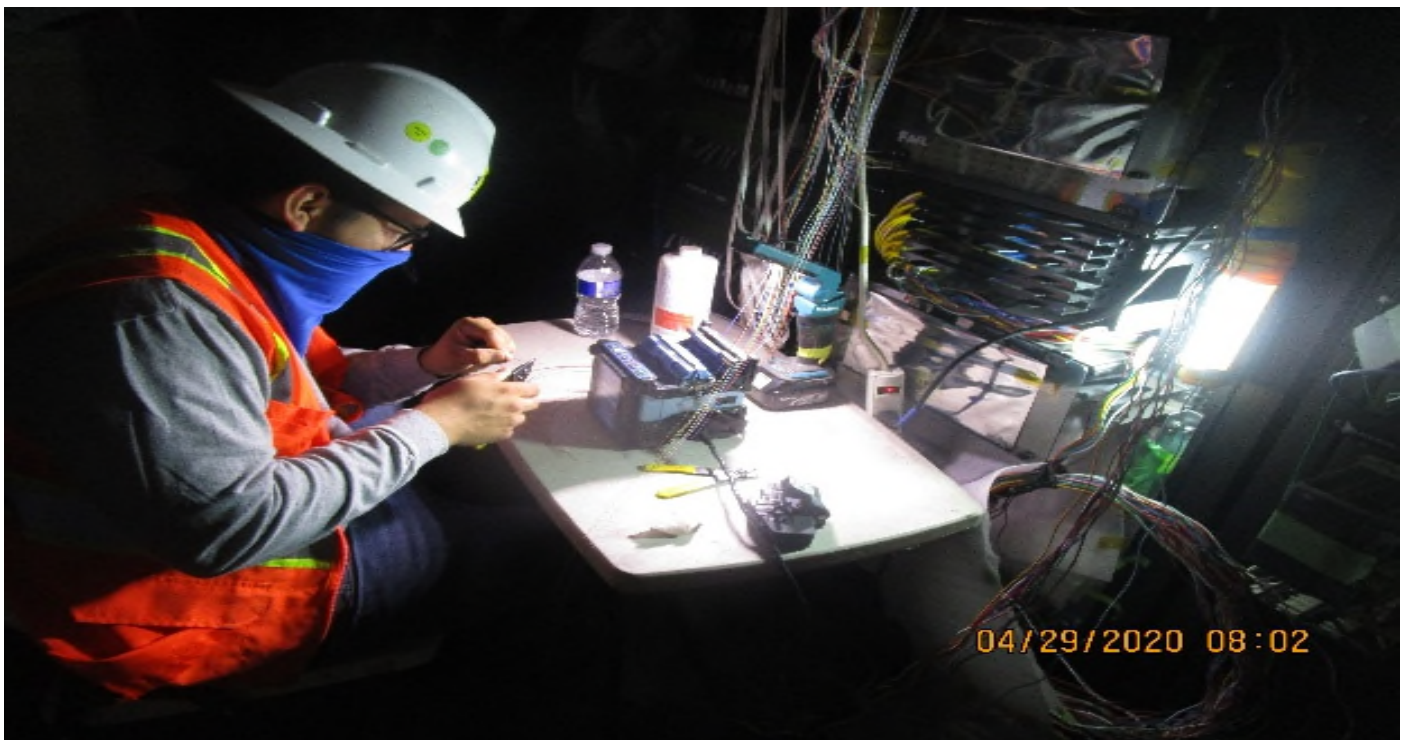


Crenshaw/MLK - MLK, Emergency Fan room (S) C102, EVF-7-121, continued rough in 36"x36"x12" PB & begin FRP to control panel

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**Crenshaw/Vernon - Vernon Emergency ventilation shaft equipment access (S) C107**begin installing horn strobe devices, ID & label



**Crenshaw/Vernon - Vernon Concourse, TC&C Room C112, CTS Comm Rack,** begin terminating fiber optic cable for A-train.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

May 6, 2020 at 9:35:47 AM  
Los Angeles



Crenshaw/Vernon - PCI Re-installing bar panels at Vernon.

May 6, 2020 at 9:56:56 AM  
Los Angeles



Crenshaw/Vernon - Penhall cutting top of plenum at Vernon.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Vernon - WSCC drilling for emergency hatch at Vernon.



Crenshaw/Vernon - Placing concrete for planter end wall at Vernon

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Vernon - Placing concrete for vent stack at Vernon.



Crenshaw/Vernon - WSCC placing concrete for Bilco hatch at Vernon.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Vernon - Carrera installing stair treads and risers at Vernon.



Crenshaw/Vernon - WSCC laying out tree locations at Vernon.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Vernon - WSCC cleaning up around the plenum at Vernon.

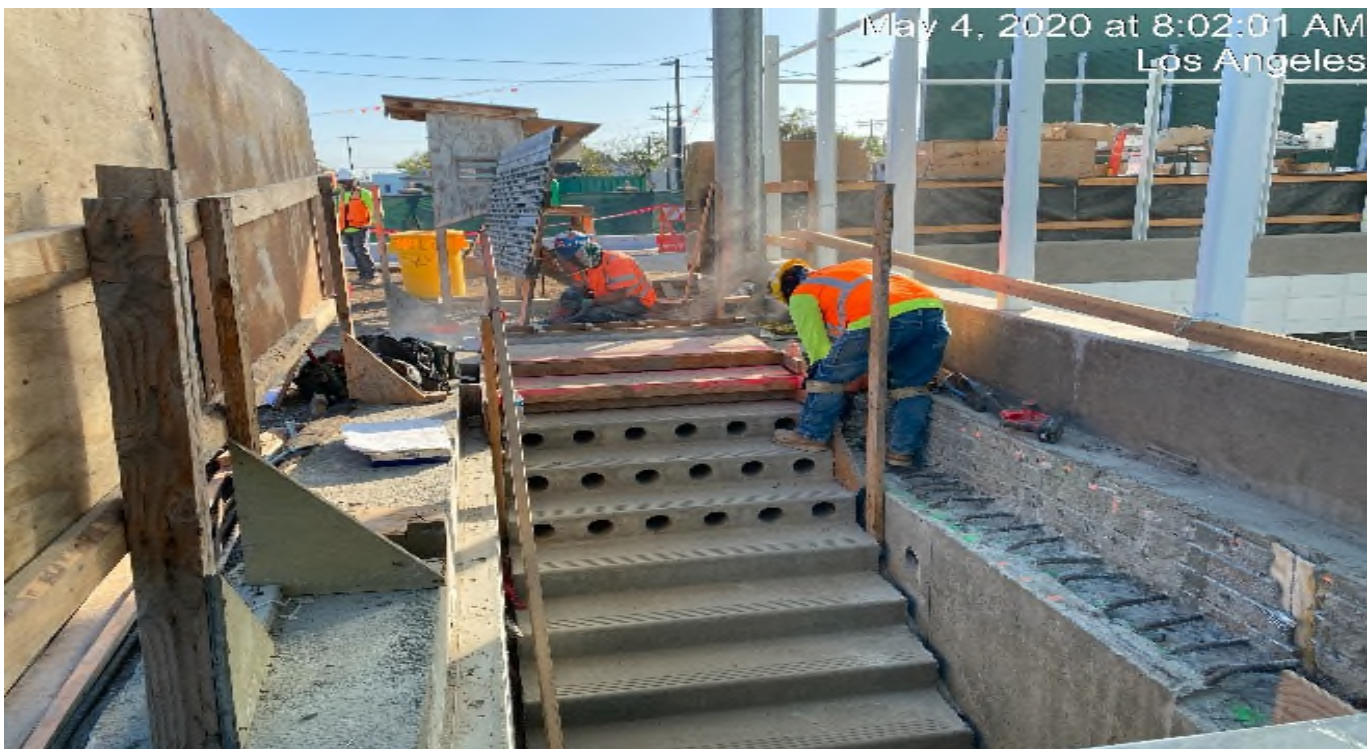


Crenshaw/Vernon - Vernon Platform, NB, begin overhead bonding Radiax GRC (5) 2" GRC with #2 7-strand bare copper grounds

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Vernon - Vernon Concourse, Free Area C129, continued rough in of AL1A-Lumium brand lighting fixtures at light pockets



Crenshaw/Vernon - WSCC drilling for emergency hatch at Vernon.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**Crenshaw/Vernon - Vernon North Platform, Continued overhead bonding Radiax GRC (5) 2" GRC with #2 7-strand bare copper grounds**



**Crenshaw/Vernon - Vernon North Platform, continued begin pulling smoke detector 1 pair #18 from devices to Electric (N) T115**

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**Crenshaw/Vernon - Vernon Concourse, Elevator 3 & 4 continued terminating control wiring (19 conductor #18) EM lighting & fans**



**Crenshaw/Vernon - Vernon Concourse, Elevator 3 & 4 continued terminating control wiring (19 conductor #18) EM lighting & fans**



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Vernon - Vernon, Vestibule 3, C133 begin installing Radiax cable support brackets 5' On center East & West CMU walls



Crenshaw/Vernon - WSCC drilling for emergency hatch at Vernon.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

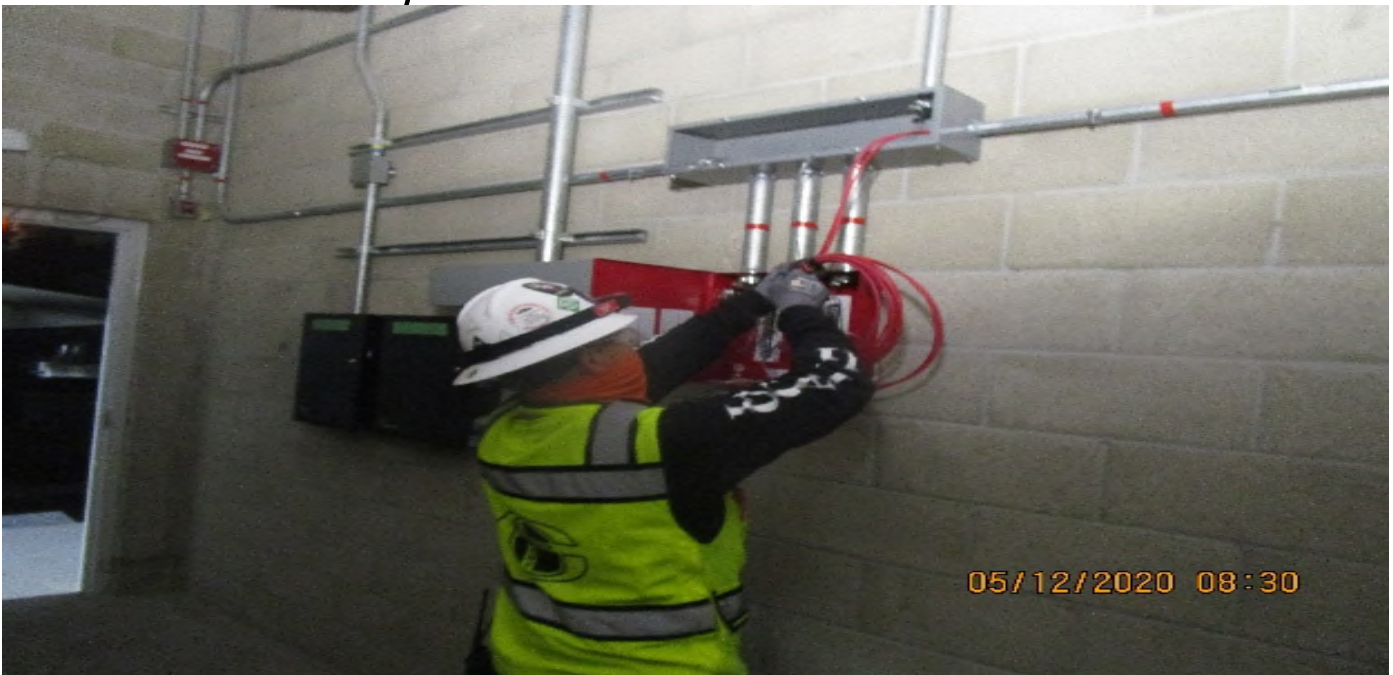


**Crenshaw/Vernon - Vernon Concourse, TC&C Room C112. Begin dressing & terminating #10 grounds at distribution panel PP3/S**



**Crenshaw/Vernon - Vernon Concourse, Emergency fan room pulling #14 # Type RHW-2 wire (EVF-302) to TFD-6-302 (PWR) limit switches**

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

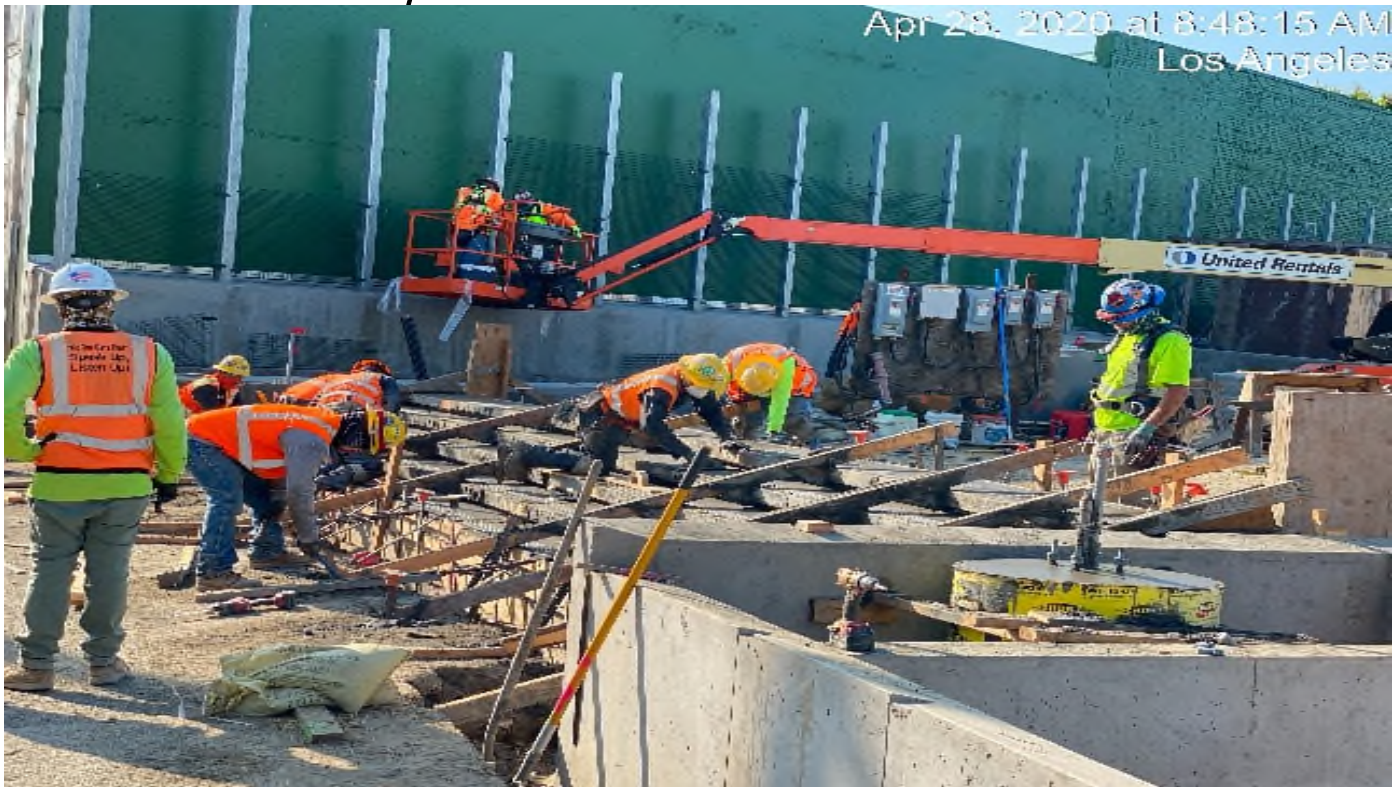


**Crenshaw/Vernon** - Vernon, Electric room (S) T104, Pulling 1 pair #14 (smoke detectors) from S platform to FATC & test continuity.

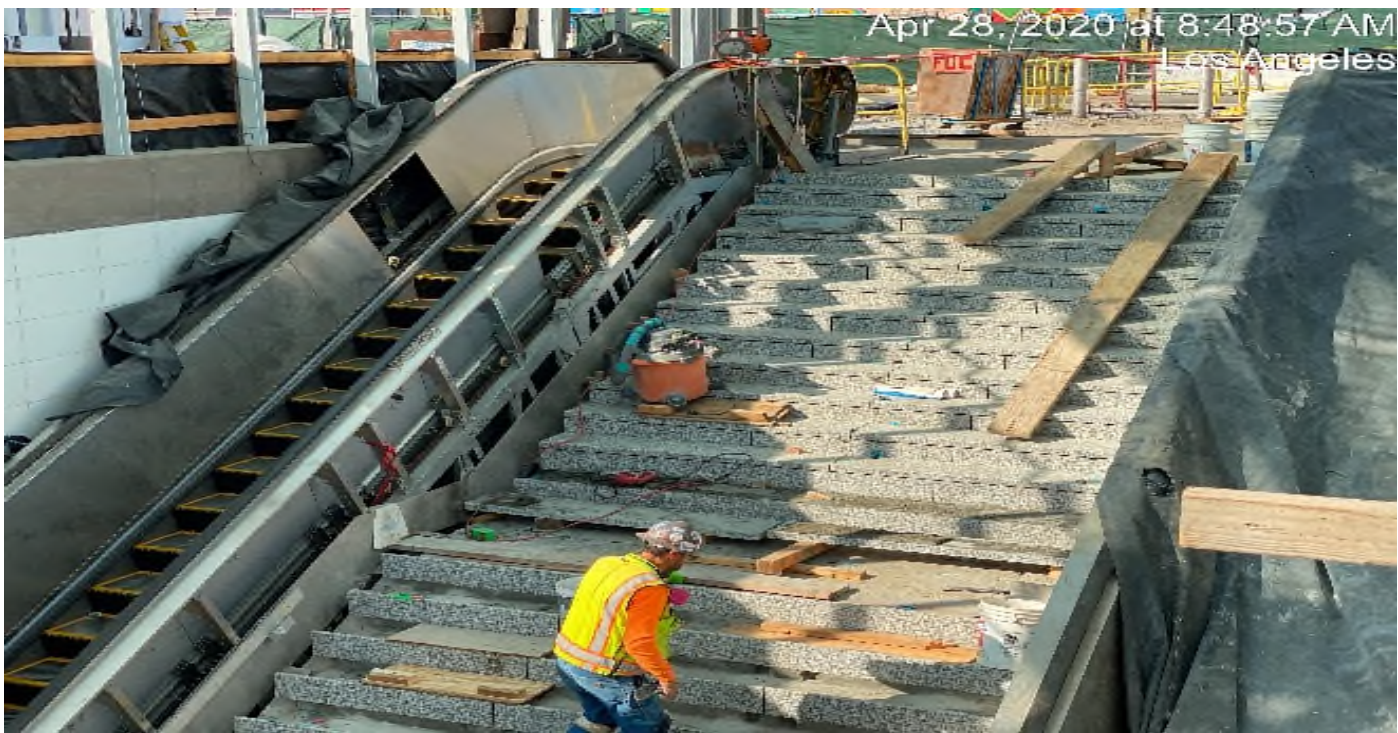


**Crenshaw/Vernon** - Vernon concourse, Elevator #4, Re-pulling main traveler wiring harness do to 1st traveler to short in length-Rework

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Vernon - WSCC placing forms for planter at Vernon.



Crenshaw/Vernon - Carrera placing stair treads at Vernon.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

Apr 28, 2020 at 9:15:16 AM  
Los Angeles



Crenshaw/Vernon - Marina landscape installing lattice at Vernon



Crenshaw/Vernon - Vernon, TC&C Room C112, Resume GRC piping (3) 1" GRC from panel PP3.N to cores of Mechanical room C114.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Vernon - WSCC placing forms for the map case at Vernon..



Crenshaw/Vernon - WSCC placing forms for the map case at Vernon.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**Crenshaw/Vernon - STA 363+00 TK#3 – new 22.7' rail plug delivered on site for T&M work  
Vernon Station**



**Crenshaw/Vernon - Vernon Concourse, Tunnel vent plenum (S) C106, TFD-6-101  
continued rough 1" FRP at actuators & limit switches.**

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



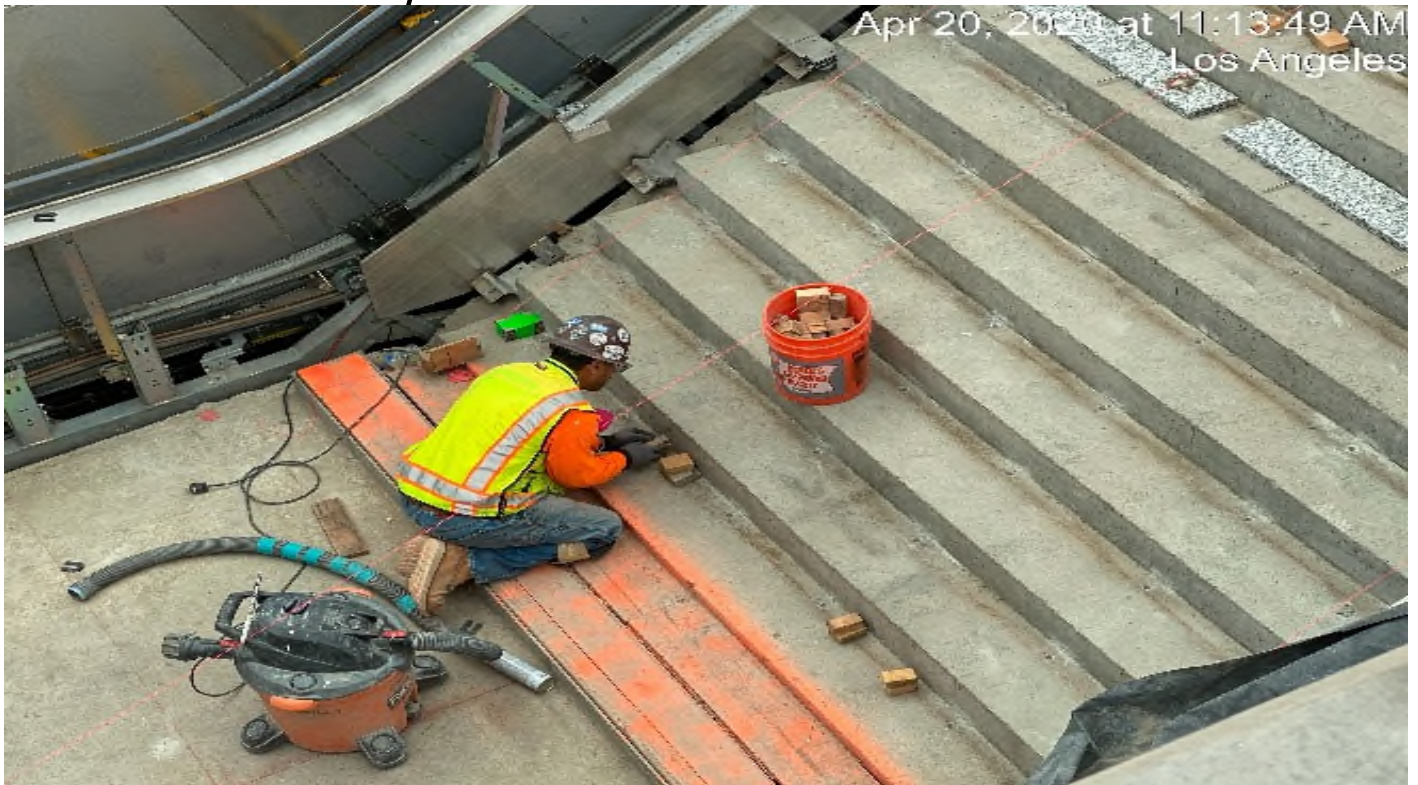
Crenshaw/Vernon - Vernon Concourse, Paid Area C146, continued rough in of AL1A-Lumium brand lighting fixtures at light pockets



Crenshaw/Vernon - WSCC placing forms for the planter section at Vernon.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Vernon - Carrera placing stair treads at Vernon.



LEIMERT PARK STATION – Continue backfilling/grading the center guideway median island for drainage on Crenshaw Blvd between 48th St and Vernon Ave.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Continue backfilling/grading the center guideway median island for drainage on Crenshaw Blvd between 48th St and Vernon Ave.



**LEIMERT PARK STATION** – Placing forms and concrete for new ADA ramp installation on the southeast corner of Vernon Ave and Crenshaw Blvd.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Placing concrete for new walkway and dome installation on the southeast corner of Vernon Ave and Crenshaw Blvd.



**LEIMERT PARK STATION** – Completed concrete placement of walkway and domes for the southeast corner of Vernon Ave and Crenshaw Blvd.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Placing forms and concrete for new ADA ramp installation on the northeast corner of Vernon Ave and Crenshaw Blvd.



**LEIMERT PARK STATION** – Completed ADA ramp installation on the northeast corner of Vernon Ave and Crenshaw Blvd.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Placing concrete for the plumping vent stack foundation on the southeast corner of 43rd Pl and Crenshaw Blvd.



**LEIMERT PARK STATION** – Built formwork and placed concrete at the southeast corner of 43rd Pl and Crenshaw Blvd.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Built formwork and placed concrete along the northbound sidewalk on Crenshaw Blvd between Vernon Ave and 43rd Pl.



**LEIMERT PARK STATION** – Completed concrete placement along the northbound sidewalk on Crenshaw Blvd between Vernon Ave and 43rd Pl.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Excavating for street light conduit installation on Crenshaw Blvd between 43rd Pl and Homeland Dr.

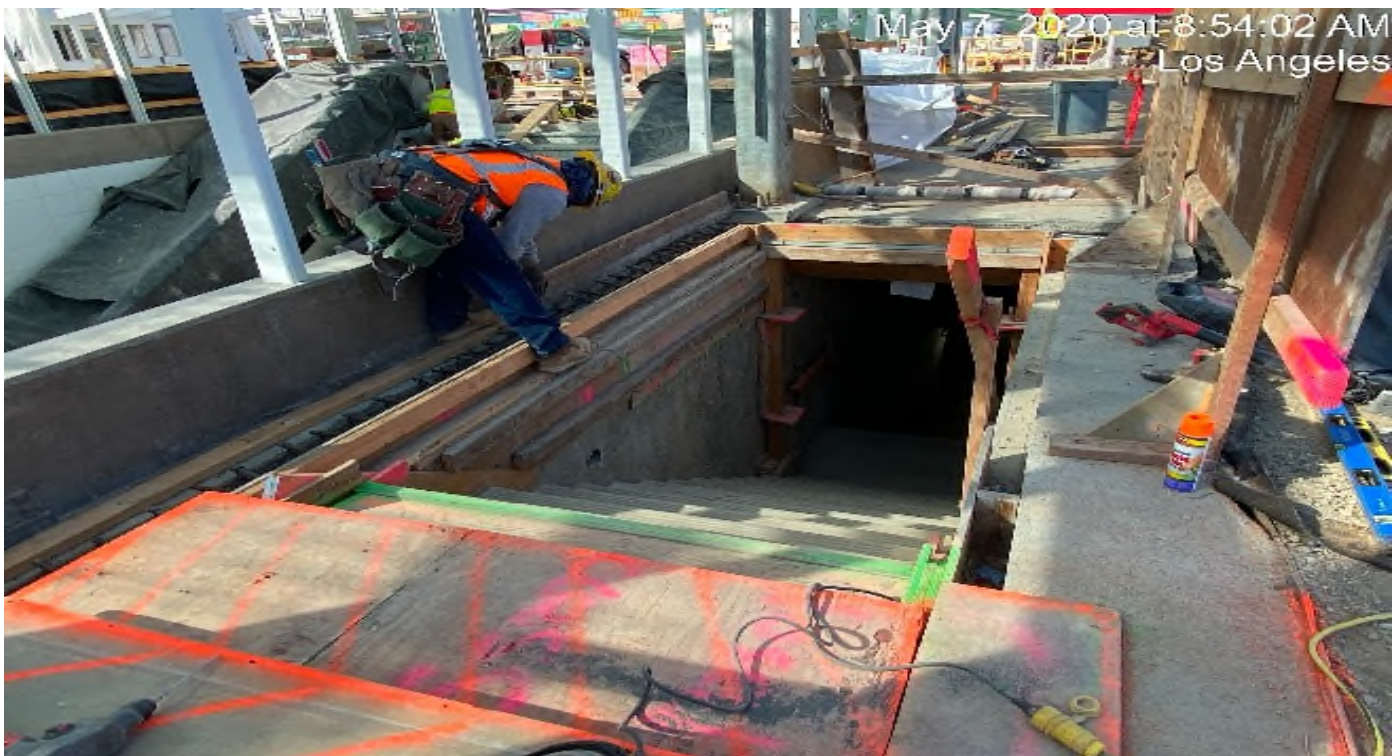


**LEIMERT PARK STATION** – Continue drilling and doweling for the north emergency exit hatch doors at the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Continue drilling and doweling for the north emergency exit hatch doors at the plaza level.



**LEIMERT PARK STATION** – Continue drilling and doweling for the north emergency exit hatch doors at the plaza level.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Embedding whips to the north emergency exit hatch doors at the plaza level.



**LEIMERT PARK STATION** – Continue drilling and doweling for the north emergency exit hatch doors at the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Placing concrete for the north emergency exit hatch doors at the plaza level.



**LEIMERT PARK STATION** – Began layout for upcoming tree well installation at the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Excavating for palm tree installation at the plaza.



LEIMERT PARK STATION – Continue excavating for palm tree installation at the plaza.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Continue excavating for palm tree installation at the plaza.



LEIMERT PARK STATION – Continue excavating and began palm tree installation at the plaza.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Continue granite thread and riser installation at the intermediate stair case landing.



**LEIMERT PARK STATION** – Continue granite thread and riser installation at the intermediate stair case landing.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Continue granite thread and riser installation at the intermediate stair case landing.

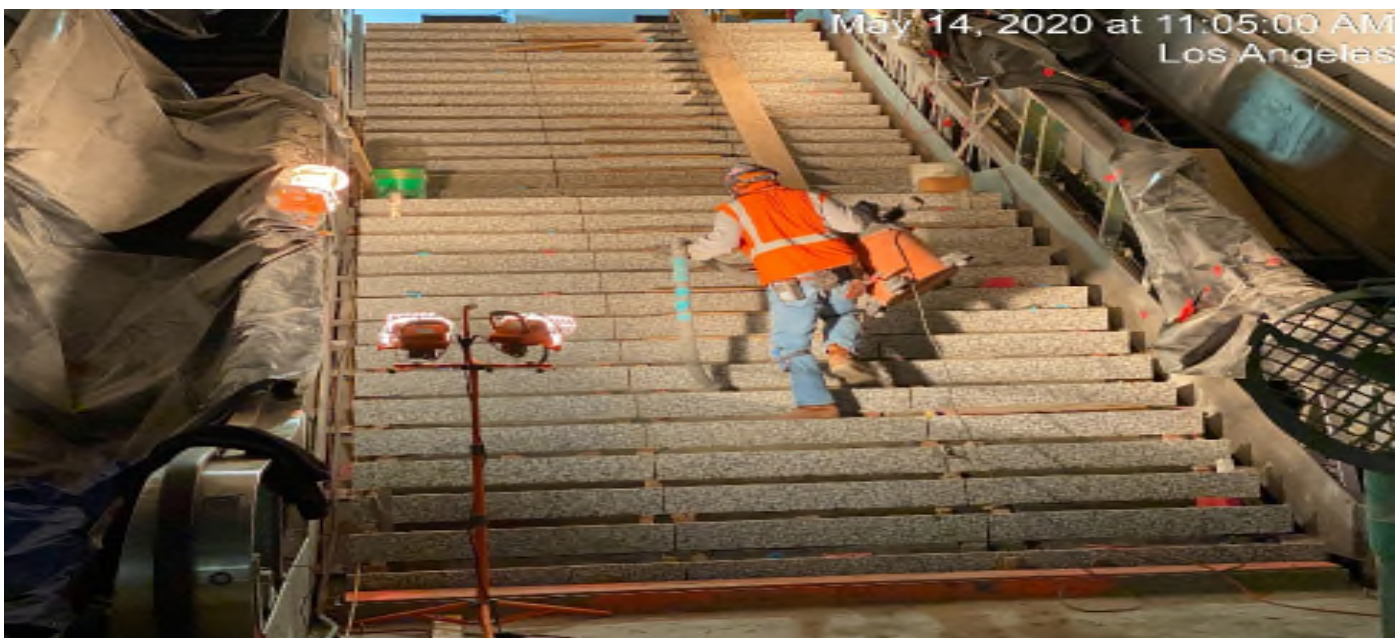


**LEIMERT PARK STATION** – Continue granite thread and riser installation at the intermediate stair case landing.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Continue granite thread and riser installation at the concourse stair case landing.



**LEIMERT PARK STATION** – Continue granite thread and riser installation at the concourse stair case landing.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

May 15, 2020 at 10:30:40 AM  
Los Angeles



**LEIMERT PARK STATION** – Continue granite thread and riser installation at the concourse stair case landing.

May 18, 2020 at 11:13:04 AM  
Los Angeles



**LEIMERT PARK STATION** – Continue granite thread and riser installation at the concourse stair case landing.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Continue installing ceiling light fixtures at the concourse level.



LEIMERT PARK STATION – Continue installing ceiling light fixtures at the concourse level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Continue installing ceiling light fixtures at the concourse level.



LEIMERT PARK STATION – Continue installing ceiling light fixtures at the concourse level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Pulling/identifying wiring for switches/buttons for Elevators 1&2 at the concourse level.



**LEIMERT PARK STATION** – Applying anti-graffiti finish coat to all the columns at the platform level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Began stainless steel cladding installation for the ceiling at the platform level.



**LEIMERT PARK STATION** – Installing metal steel framing at the underside of stairwells 3&4 at the platform level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Continue installing metal steel framing at the underside of stairwells 3&4 at the platform level.



**LEIMERT PARK STATION** – Continue installing metal steel framing at the underside of stairwells 3&4 at the platform level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

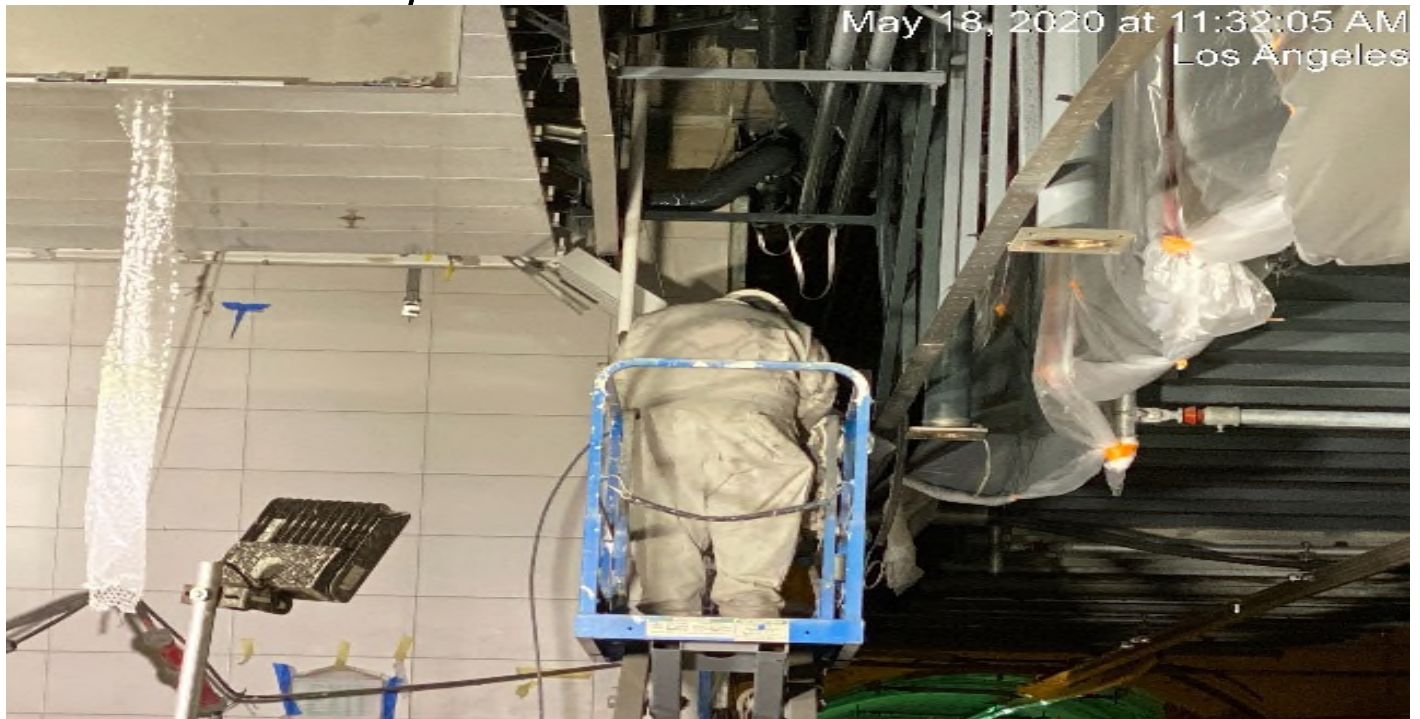


**LEIMERT PARK STATION** – Began installing ceiling light fixtures at the platform level.

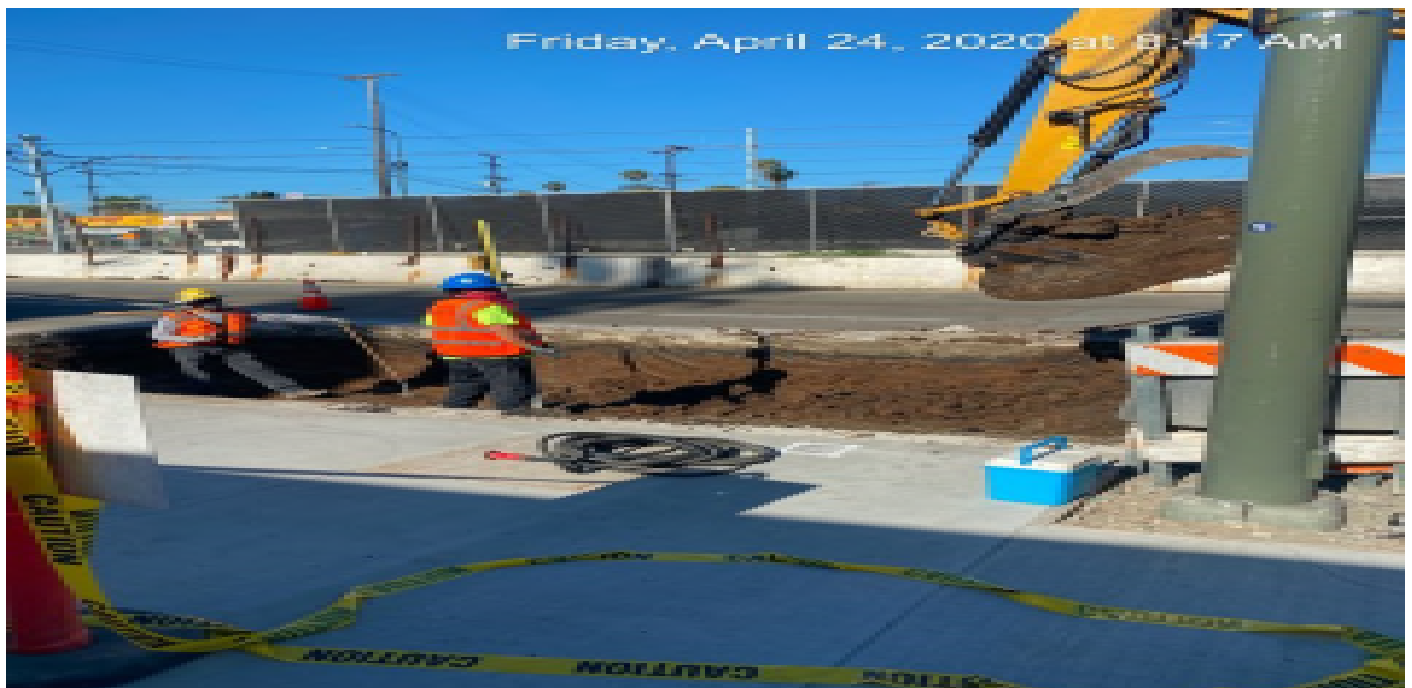


**LEIMERT PARK STATION** – Preparing for primer application to the ceiling conduits at the platform level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Applying finish paint to the ceiling conduits at the platform level.



**LEIMERT PARK STATION** – Excavating for a new bus pad installation on the north east corner of 48th St and Crenshaw Blvd.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Placing concrete for the new bus pad installation on the north east corner of 48th St and Crenshaw Blvd.



**LEIMERT PARK STATION** – Placing concrete for new sidewalk installation for the center “Pork Chop” median island on Crenshaw Blvd between 46th St and Leimert Blvd.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Excavating for new sidewalk and ADA ramp installation on the northeast corner of 46th St and Leimert Blvd. 4/21/20

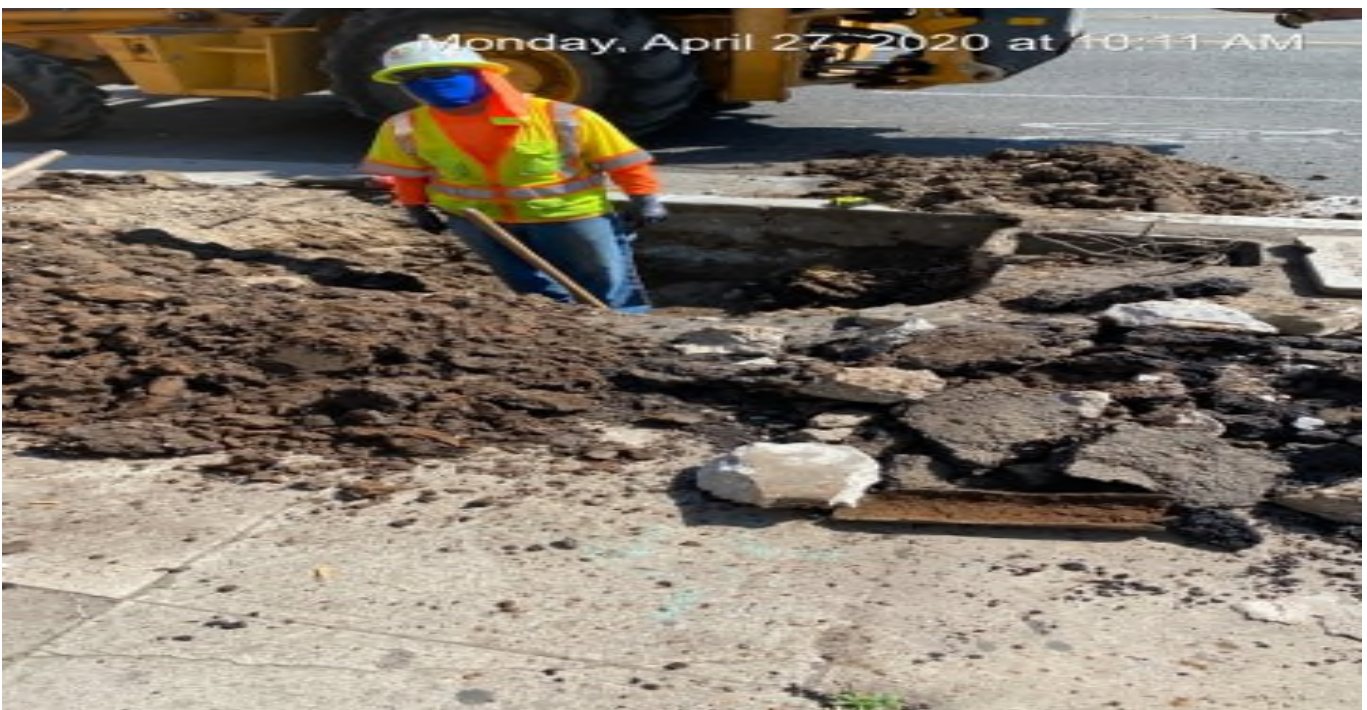


**LEIMERT PARK STATION** – Placing concrete for new curb/gutter on the south and northeast corners of 46th St and Crenshaw Blvd.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Continued placing concrete for the new sidewalk and ADA ramp installation at the northeast corner of 46th St and Leimert Blvd.



**LEIMERT PARK STATION** – Excavating for new light pole foundation on the northeast corner of 43rd Pl and Crenshaw Blvd.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Began layout for granite installation at the main stair case landing of the plaza level.



**LEIMERT PARK STATION** – Continue light pole foundation installation on the northeast corner of 43rd Pl and Crenshaw Blvd.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Placing forms and concrete for new curb/gutter installation on the southeast corner island of Vernon Ave and Crenshaw Blvd. 5/2/20



**LEIMERT PARK STATION** – Placing asphalt concrete around the curb/gutter on the southeast corner island of Vernon Ave and Crenshaw Blvd.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Continue tunnel fan damper section installation for the sound attenuator for EVF-6-102 in the North Fan Room C – 142 of the concourse level.



**LEIMERT PARK STATION** – Continue formwork for the planter stair risers on the northwest section of the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Began layout of recessed lighting fixtures for planter stair risers on the northwest section of the plaza level.



**LEIMERT PARK STATION** – Continue embedded and ramp lighting fixture installation for planter stair risers on the northwest section of the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

Apr 23, 2020 at 10:28:50 AM  
Los Angeles



**LEIMERT PARK STATION** – Continue formwork for the planter stair risers on the northwest section of the plaza level.



**LEIMERT PARK STATION** – Continue embedded and ramp lighting fixture installation for the planter stair risers on the northwest section of the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Continue embedded and ramp lighting fixture installation for the planter stair risers on the northwest section of the plaza level.



**LEIMERT PARK STATION** – Continue formwork for the planter stair risers on the northwest section of the plaza level.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Continue formwork for the planter stair risers on the northwest section of the plaza level.

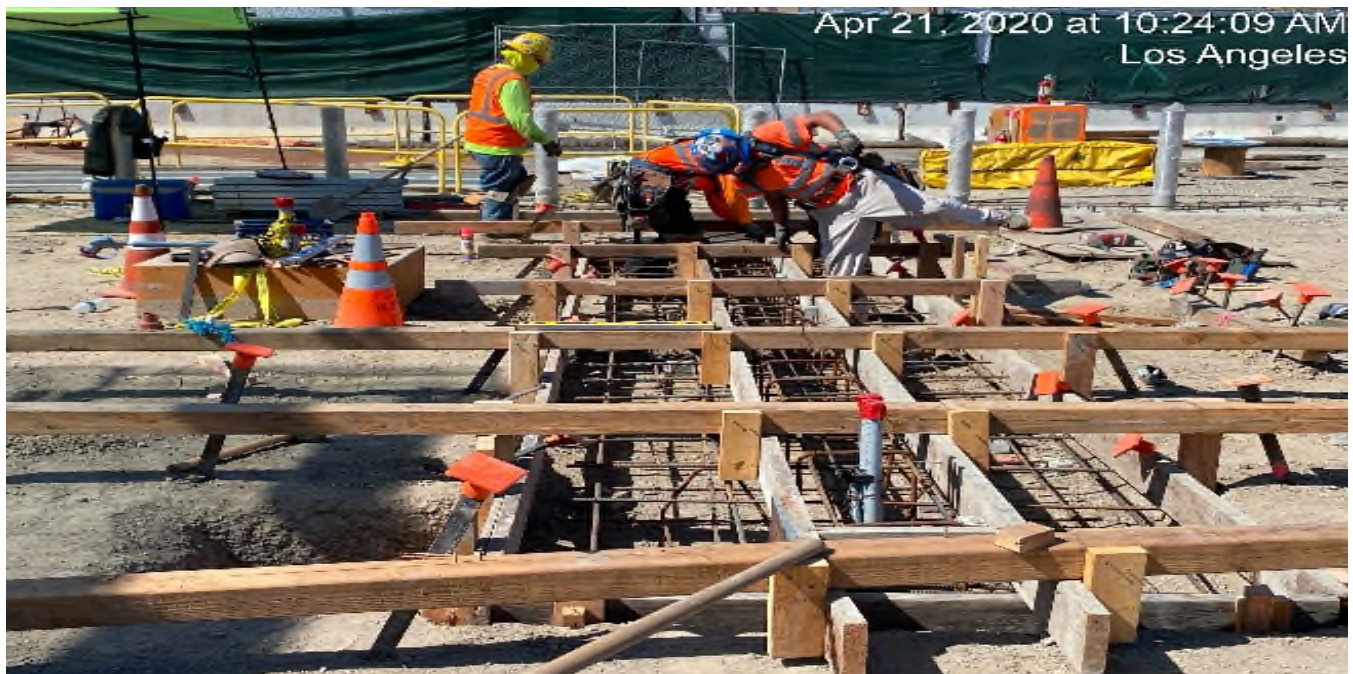


**LEIMERT PARK STATION** – Continue embedded and ramp lighting fixture installation for the planter stair risers on the northwest section of the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Placed concrete and continue formwork for the planter stair risers on the northwest section of the plaza level.



**LEIMERT PARK STATION** – Began formwork and rebar installation for the map cases at the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

Apr 28, 2020 at 9:15:16 AM  
Los Angeles



**LEIMERT PARK STATION** – Continue lattice installation for the green screen wall at the plaza level.



**LEIMERT PARK STATION** – Installing steel framing for the north emergency exit hatch doors at the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Drilling and doweling for the north emergency exit hatch doors at the plaza level.

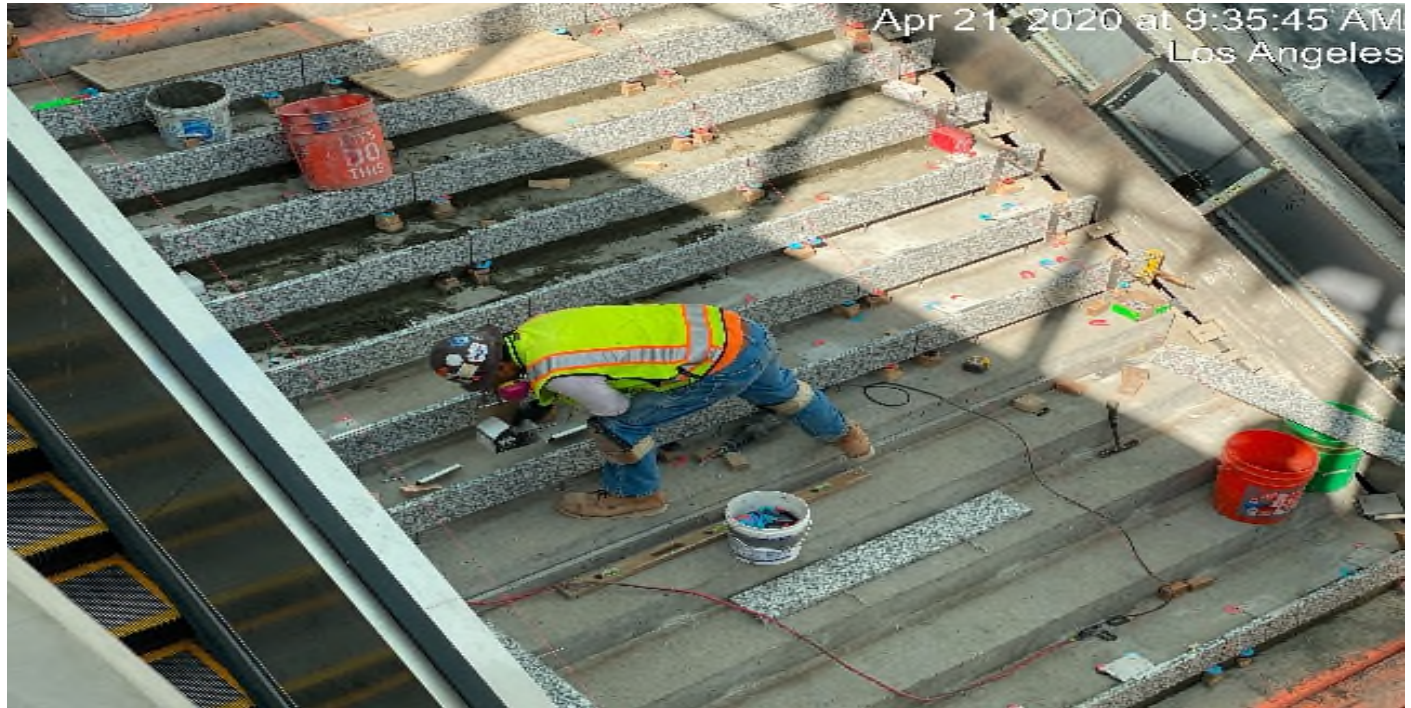


**LEIMERT PARK STATION** – Continue granite thread and riser installation at the main stair case landing of the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Continue granite thread and riser installation at the main stair case landing of the plaza level.



**LEIMERT PARK STATION** – Continue granite thread and riser installation at the main stair case landing of the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Continue granite thread and riser installation at the main stair case landing of the plaza level.



**LEIMERT PARK STATION** – Continue granite thread and riser installation at the main stair case landing of the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

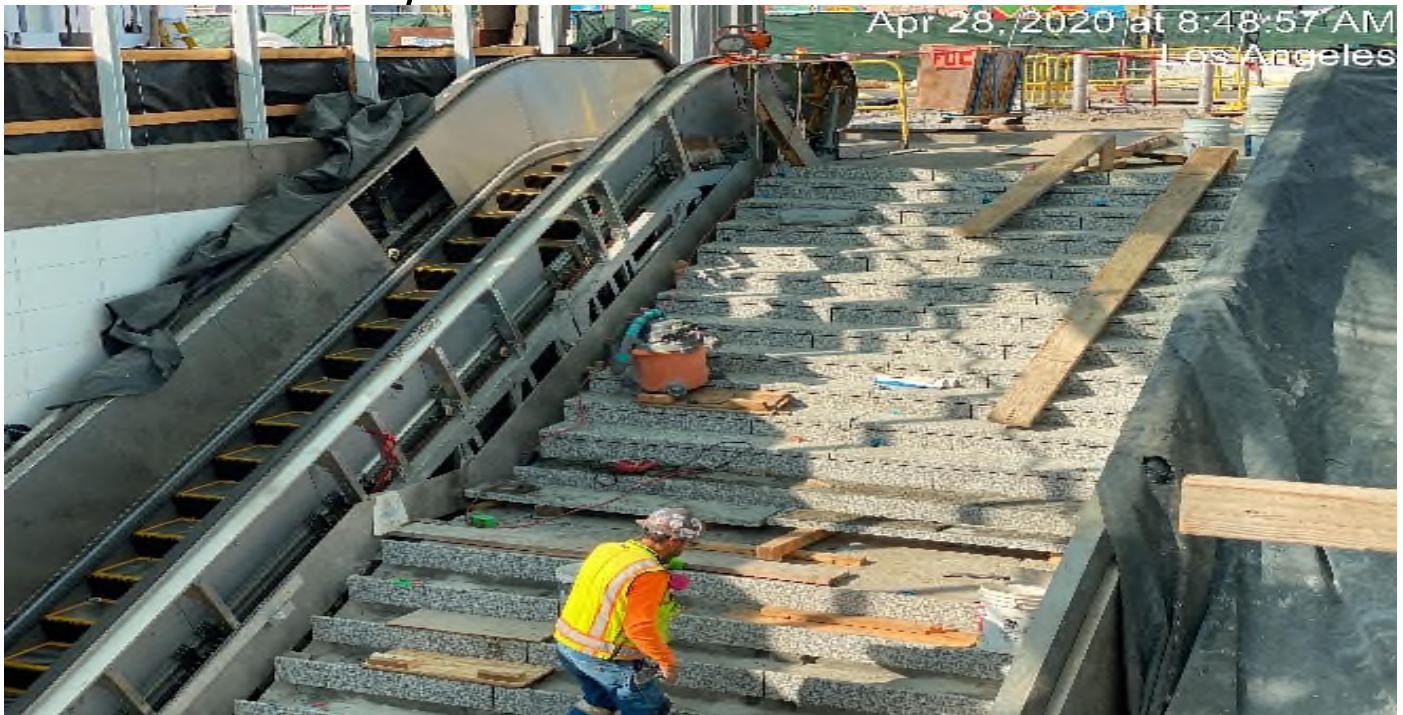


**LEIMERT PARK STATION** – Continue granite thread and riser installation at the main stair case landing of the plaza level.

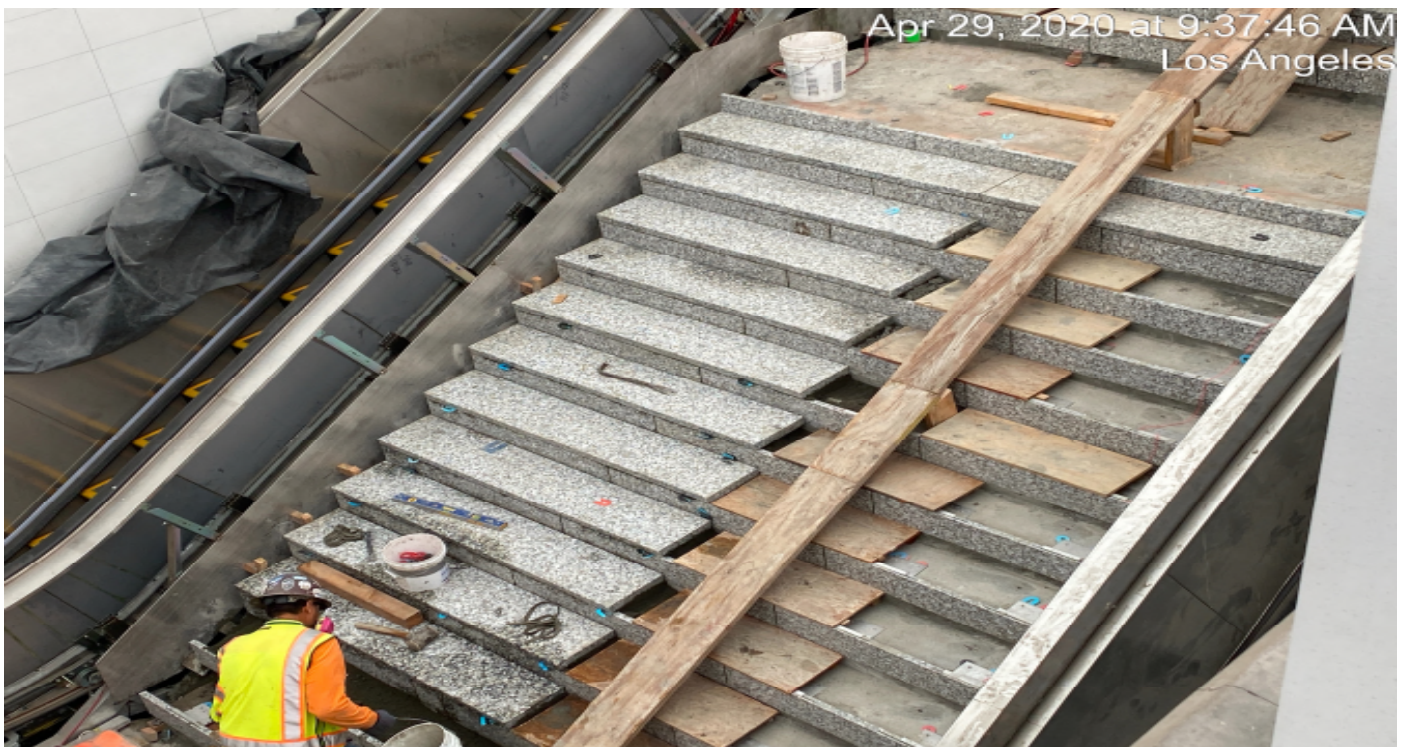


**LEIMERT PARK STATION** – Continue granite thread and riser installation at the main stair case landing of the plaza level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Continue granite thread and riser installation at the main stair case landing of the plaza level.



**LEIMERT PARK STATION** – Continue granite thread and riser installation at the main stair case landing of the plaza level.



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Continue installing ceiling light fixtures at the concourse level.



**LEIMERT PARK STATION** – Continue installing ceiling light fixtures at the concourse level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Continue installing ceiling light fixtures at the concourse level.



**LEIMERT PARK STATION** – Continue installing ceiling light fixtures at the concourse level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Continue installing ceiling light fixtures at the concourse level.



LEIMERT PARK STATION – Continue installing ceiling light fixtures at the concourse level.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Continue installing ceiling light fixtures at the concourse level.



**LEIMERT PARK STATION** – Wiring and adjusting elevator cabs 3&4 at the concourse level. 5/2/20

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**LEIMERT PARK STATION** – Preparing to install catwalk frame to the main entrance canopy structure at the plaza level.



**UG-4- STA 400+50 TK#4/NB** looking south – minerals on UG4 invert between Vernon & MLK.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG4 – Pressure washing concrete between the tracks and cleaning drainage trenches in the southbound tunnel.



UG-4- Continue pulling wire for the emergency lighting at the south end portal entrance.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG-4- WSCC re-drilling walk way plates at NB UG-4.



UG-4- STA 441+80 TK#4/NB looking south – torque DF fasteners 8W1LHXO – UG4 Exposition Station.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**UG-4-** STA 440+65 TK#4/NB looking south – set guard rail brackets 8W1LHXO – UG4 Exposition Station



**UG-4-** STA 444+39 TK#3/SB looking south – torque DF fasteners between 8X1RH XO & 8W1LHXO – UG4 Exposition Station



# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG-4- STA 371+65 TK#4/NB looking north – steel plates set at crosswalk UG4 at the end of 2019 – PUNCH LIST



UG-4- STA 371+65 TK#4/NB looking south – steel plates and inserts removal at crosswalk UG4 – PUNCH LIST

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG-4- STA 371+00 TK#3/SB looking south – OCS work south portal UG4 (48th St).



UG-4- STA 371+00 TK#4/NB looking south – OCS work south portal UG4 (48th St).

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG4 - STA 383+00 TK#3/SB looking north – set cables in duct bank UG4 Vernon Station north.



UG4 - STA 444+40 TK#4/NB looking south – system work UG4 DXO area Exposition Station.

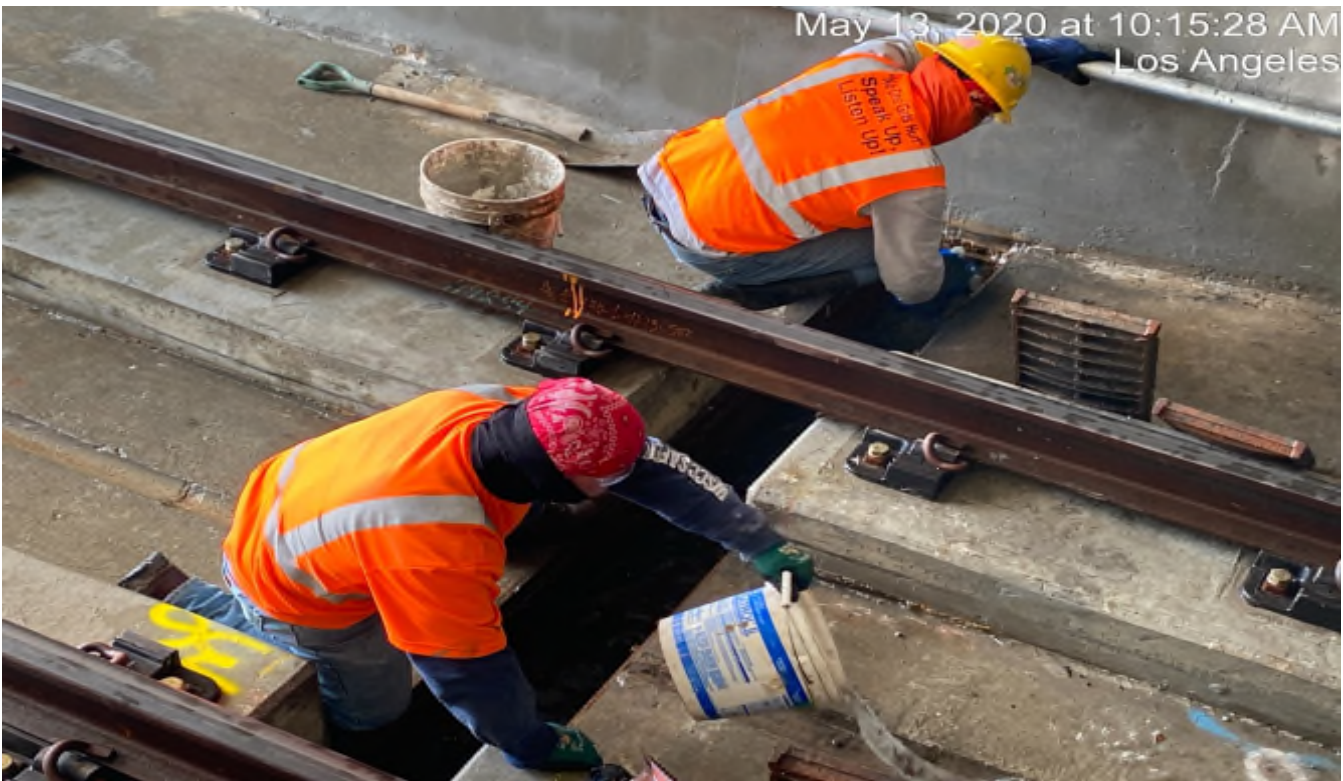
# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

May 12, 2020 at 10:06:02 AM  
Los Angeles



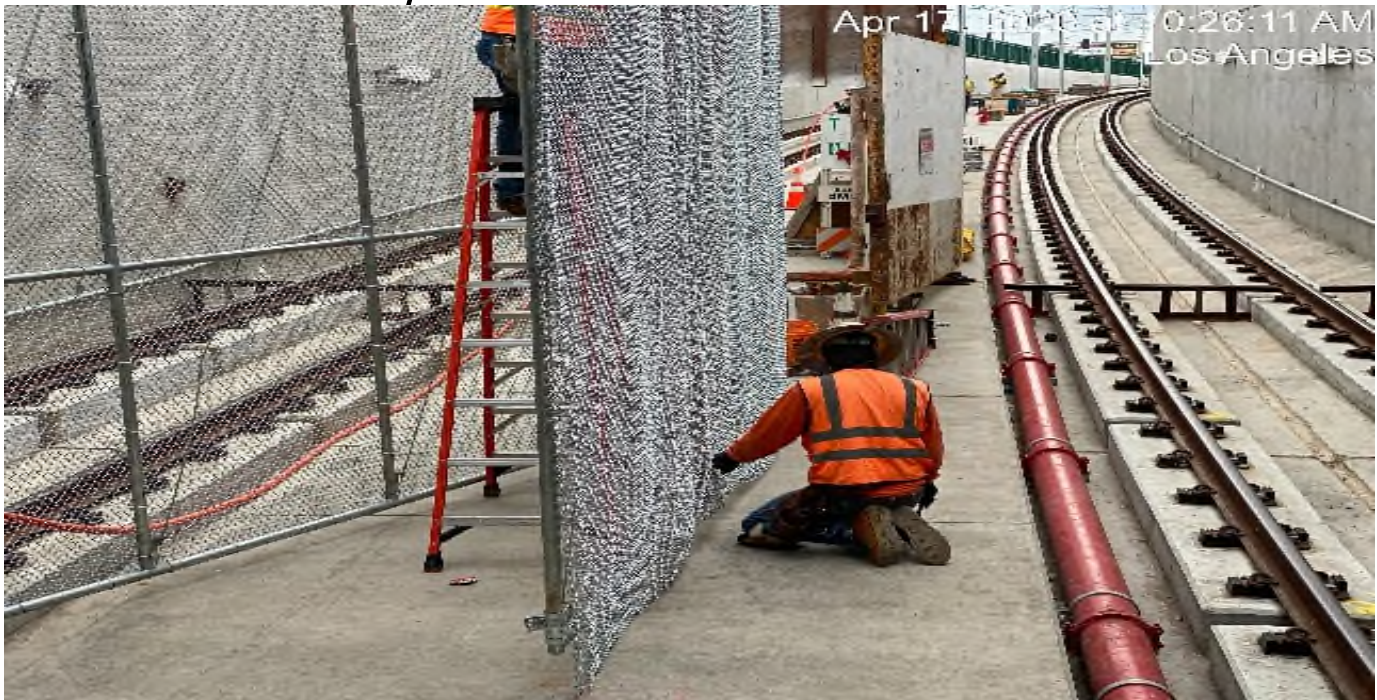
UG4 - WSCC pressure washing concrete at UG-4.

May 13, 2020 at 10:15:28 AM  
Los Angeles



UG4 - WSCC cleaning drainage grates at UG-4.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG4 – Continue installing chain link fencing for both north and southbound tracks at the south end portal entrance.



UG4 – Continue handrail installation for the emergency walkways along the southbound tunnel.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG4 – Continue handrail installation for the emergency walkways along the southbound tunnel near the south portal entrance.



UG4 – Continue handrail installation for the emergency walkways along the northbound tunnel near the south portal entrance.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE



**UG4** – WSCC in UG4 NB #4 track STA 371+64, repair work on emergency walkway foundations.



**UG4** – Continue handrail installation for the emergency walkways along the northbound tunnel at Sta 378+00.

# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

Apr 29, 2020 at 9:47:25 AM  
Los Angeles



UG4 – Installing and drilling water diversions along the northbound tunnel at Sta 371+60.

## **SEGMENT C:**

- Rework of VHRF fasteners is still required due to missing shims and incorrect installation.
- Incomplete Double Crossovers due to parts shortage.
- 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.
- Investigation of a possible repair process for plinth to invert gap continues.
- Rework of the Top-of-Rail it may be required due to gouges in the rail at grade crossing – pending resolution.
- Incomplete plinth work, damaged inserts / broken bolts.
- Replacement of plinths with failed inserts begins.
-

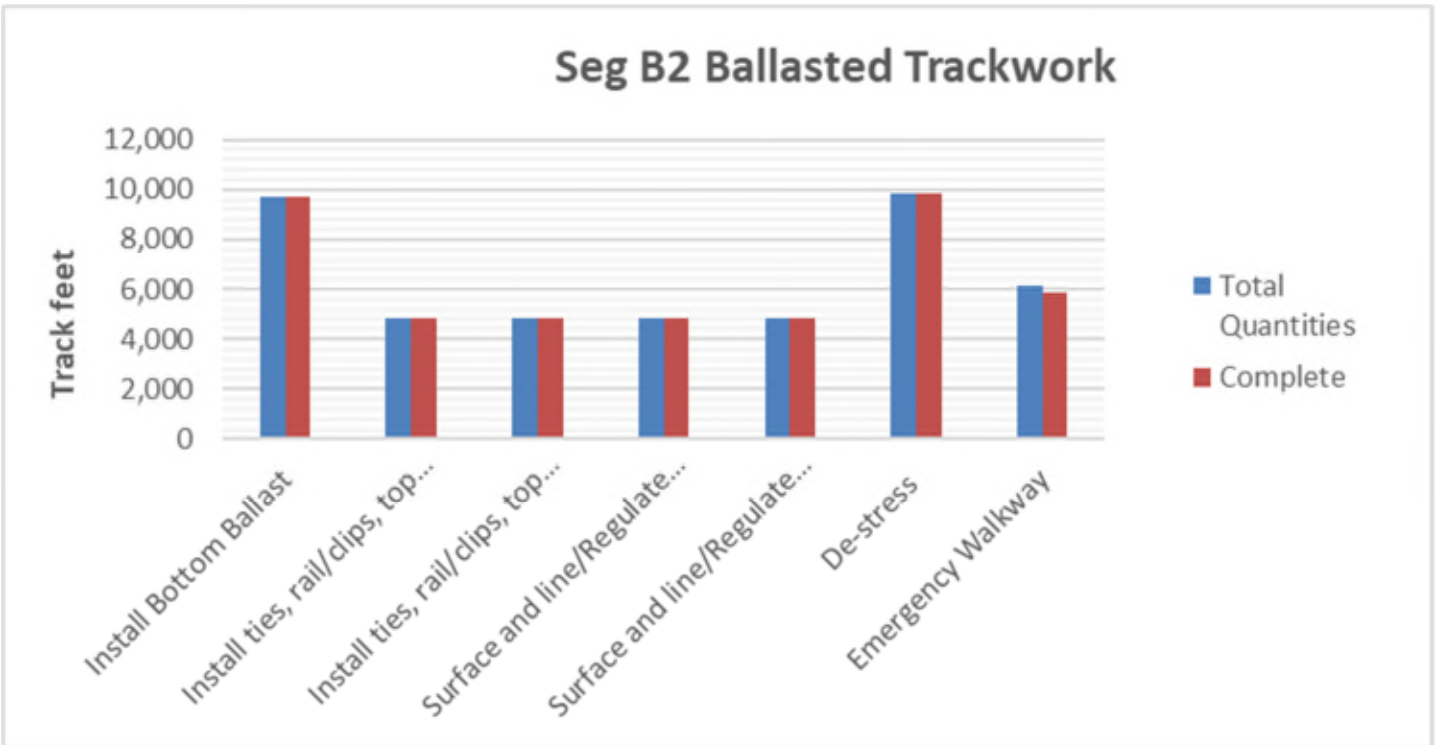
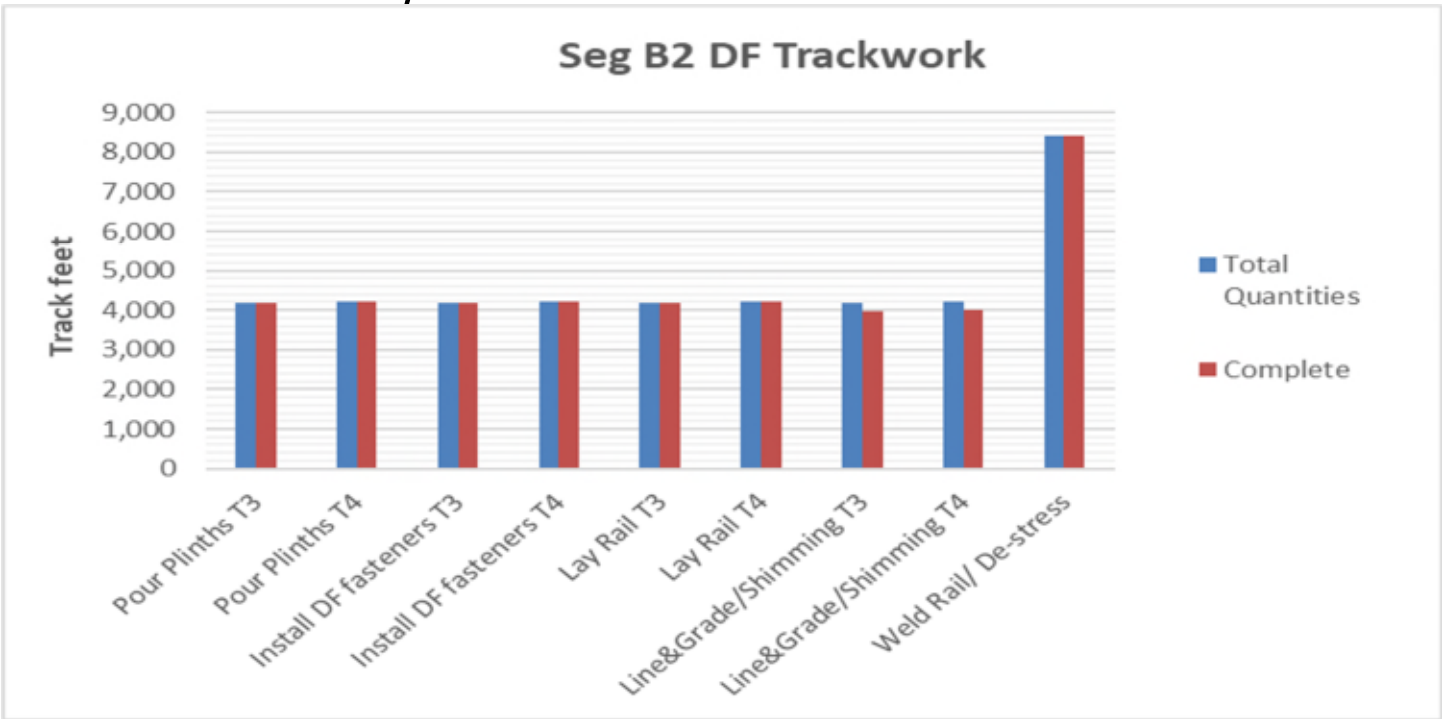


# CRENSHAW/LAX PHOTOGRAPHIC UPDATE

## 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 (IJ'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, Slauson)	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 (IJ'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

