

Job Stamp

04-0120F4

SFOBB SAS

Const. Calendar: 13

Project Work Day No.: 1223

Date 09/21/2009

Inspectors	Start	07:00	Stop	09:10
Hours		10:50		12:10
Shift Hours		06:30		15:00

ASSISTANT RESIDENT ENGINEER'S

CONTRACTOR - ABFJV, Sub SDI

HOURS - ITEM NO.

Equip. #	NO. MEEN	DESCRIPTION (Of Equipment or Labor)	#34 Prestressing Cast-in-Place Concrete (Pier W2)	#37 Cable Tie -Down								IDLE OR DOWN	REMARKS	
					Name	Contractor								
1	1	Ironworker Superintendent		6							2	Ralph Craig	SDI	
2	1	Ironworker Journeyman									8	James Carriker	SDI, assigned to Las Vegas job	
3	1	Ironworker Apprentice		6							2	Bounthaby Singharath	SDI	
4	1	Ironworker Foreman	3	3							2	Erin Jones	SDI	
5	1	Ironworker Journeyman	3	3							2	Randy Hill Jr.	SDI	
6	1	Ironworker Apprentice	3	3							2	Will Hobbs	SDI	
	1	Whisperwatt Power Generator	3								5		SDI	
	1	Colloidal grout mixer & pump	3								5		SDI	
412-10-7088	1	Forklift									8		SDI, Hertz	
CH600-8-105	1	Hydraulic Ram (Strand)									8		SDI	
HPU-D-110-3K-02	1	Hydraulic Pushing Unit									8		SDI	
SDI-HPU-D-110-3K	1	Hydraulic Pushing Unit									8		SDI	
HPU-E-20-10K-03	1	A Frame									8		SDI	
	1	A Frame (600 Ton)									8		SDI	
SPH.60.3K.06	1	Strand Pushing Guide									8		SDI	
SPH-60-3K-04	1	Strand Pushing Guide									8		SDI	
	1	Strand Pack Spool Jig									8		SDI	
	1	Winch w/combustible motor									8		SDI	
	1	Winch w/out motor									8		SDI	
	1	Winch w/out motor									8		SDI	
	1	Connex Box									8		SDI	

Weather: Overcast in the morning to sunny in the afternoon with mild temperatures - Hi 90°F Low 54°F (per weather.com forecast)

Description of Operations @ W2 Cap Beam:

ABF

- Continued to remove the formwork in the northeast quadrant of the W2 cap beam void area, see David Bradd and Lalit's diaries for details as this is force account work.

*AKM*

REC'D H31 OCT-16 #011253

- Unloaded the 28 bottom bearing pipe assemblies which had a blue tag (Form TL-625, State lot Number B260-068-09) and a certificate of compliance from C&K Johnson. Also received 28 bottom grease caps and 28 top grease caps with a blank white tag (B7-887-07, initials, and date written on galvanizing certification). I gave the paperwork to Lalit for processing.
- Assisted SDI with grouting the dead end pipe sleeves for the vertical PT tendons. ABF foreman Nigel Lohse had to plug leaks in the plywood forms under vertical tendons VT-9, 10, and 15 at W2E.
- Installed one lower bottom pipe bearing assembly and shim plates for the far southeast tendon of the W2E foundation grillage.

## SDI

- Grouted the dead end pipe sleeve for the vertical PT tendons creating a plug between the bottom of concrete and a few inches from the anchorhead. This was done to create a plug for grouting the vertical PT tendons at W2E and W2W. A couple of tests were performed on the grout taken from the mixer with the following results:
  - Efflux time,  $t_e = 19$  seconds
  - Ambient Air Temperature,  $T_A = 56^\circ\text{F}$
  - Grout Temperature,  $T_G = 81^\circ\text{F}$
  - Grout Temperature,  $T_G = 80^\circ\text{F}$  (taken in the bucket after VT-10E was grouted)
  - Grout Unit Weight  $\gamma_G = 138\text{pcf}$  (S.G. = 2.21) Caltrans.  
The minimum required for compressive strength is 135pcf using the mud balance.
  - Bleed test was done which proved the grout wasn't segregating.
  - Myself and Ken Beede decided not to make grout cubes with the plastic molds. The reason being is the uncertainty in the fabrication and we have two brass molds that are being saved for tomorrow's grouting operation. Joel Nadler of Smith Emery made 3 grout cubes using his brass molds.

ABF quality control manager Chuck Kanapicki was onsite for the initial grout tests and then left. The cementitious grout appeared to look much finer than the rejected grout used last Thursday. The date on the SIKA 300PT bags found was 08/06/09. The "birds mouth" was set to 280mm, and the tank had a measured area of 300mm x 545mm. For eight bags of grout this equates to 12.1 gallons or 96.8 pints of water to be mixed in the mixer for 3 minutes. A water meter independent of the grout machine was not used as promised. It took approximately 32 bags to grout the dead end pipe sleeves.

- Installed frame to position the cable tie down anchorheads starting from the southwestern tendon at the bottom of the W2E foundation grillage.

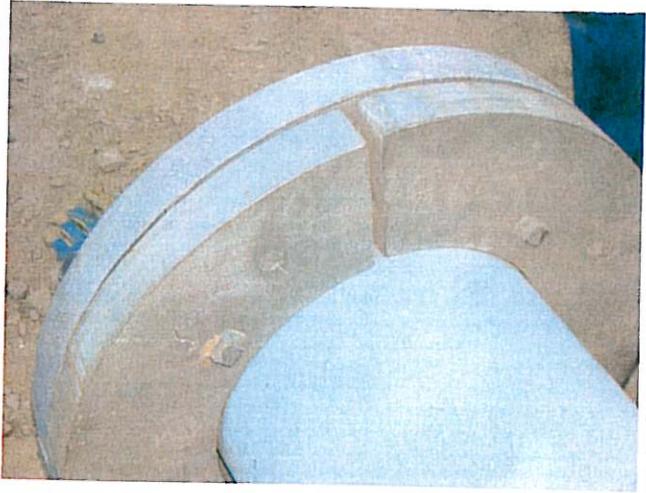
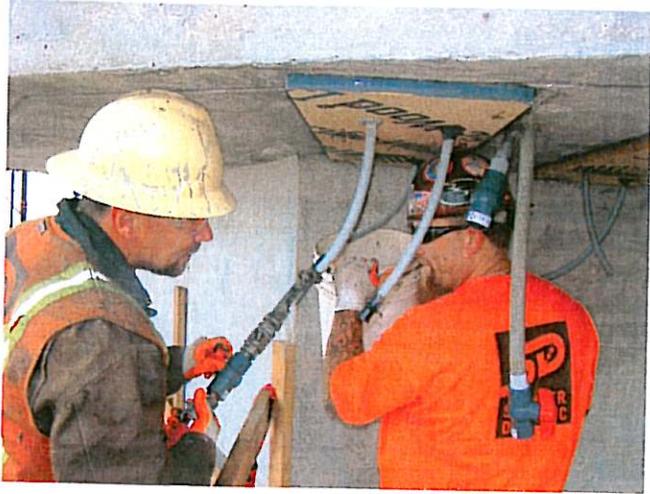
## Office and work:

- Wrote today's diary.
- Prepared for grouting operations scheduled for tomorrow. Also calculated grout quantities, specific gravity (S.G.), unit weight, etc for the vertical PT tendons.

## Inspector:

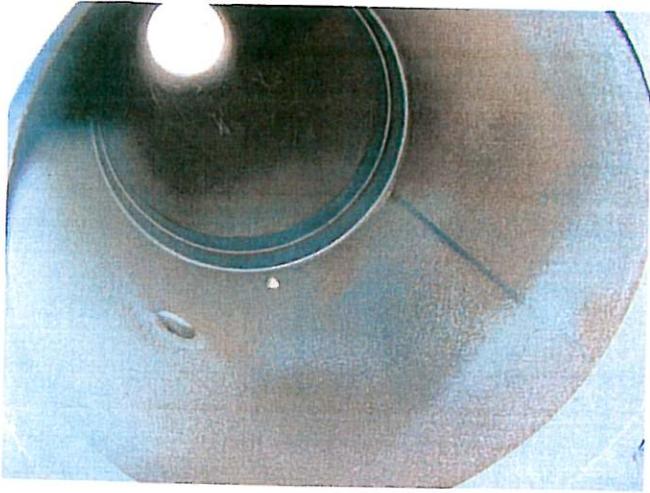
Matt Bruce     *Matt Bruce*     Transportation Engineer (D)

EA	04-0120F4
Co-Rte-KP (PM)	SF-080-13.2/13.9 (8.2/8.7)
Structure Rep.	Rick Morrow



File Name: Sept-21-2009 W2 Cap 006  
 Date: 09-21-09 | By Int: M Bruce  
 Description: Grouting the first dead end pipe sleeve VT-16W. All three grout tubes were used at the dead end. One for pumping (with a valve), another for draining grout below the anchorhead a few inches, and finally one for blowing air to force out grout of the drain tube.

File Name: Sept-21-2009 W2 Cap 011  
 Date: 09-21-09 | By Int: M Bruce  
 Description: Gap in the split shim plates approximately 3/4" around the bottom bearing plate pipe assembly on the ground. I informed ABF foreman Nigel Lohse and Terry Cronk that this condition may not be acceptable prior to any assemblies installed.



File Name: Sept-21-2009 W2 Cap 014  
 Date: 09-21-09 | By Int: M Bruce  
 Description: Backer rod found on the inside of a bottom bearing plate pipe assembly.

File Name: Sept-21-2009 W2 Cap 015  
 Date: 09-21-09 | By Int: M Bruce  
 Description: Bottom bearing plate pipe assemblies shipped back onsite today.