

Job Stamp

04-0120F4

SFOBB SAS

Const. Calendar: 9

Project Work Day No.: 1219

Date 09/17/2009

Inspectors	Start	07:00	Stop	09:40
Hours		12:20		13:10
Shift Hours		06:30		15:00

ASSISTANT RESIDENT ENGINEER'S

CONTRACTOR – ABFJV, Sub SDI

HOURS - ITEM NO.

EQUIPMENT AND/OR LABOR:

Equip. #	NO. MEN	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									8	Ralph Craig	SDI
2	1	Ironworker Journeyman	3	2							3	James Carriker	SDI
3	1	Ironworker Apprentice									8	Bounthaby Singharath	SDI
4	1	Ironworker Foreman	3	2							3	Erin Jones	SDI
5	1	Ironworker Journeyman	3	2							3	Randy Hill Jr.	SDI
6	1	Ironworker Apprentice									8	Will Hobbs	SDI
	1	Whisperwatt Power Generator	2								6		SDI
	1	Colloidal grout mixer & pump	2								6		SDI
412-10-7088	1	Forklift		2							6		SDI, Hertz
CH600-B-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 81°F Low 60°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.
- Resumed placing braces for the W2E vertical PT blackout formwork.

## SDI

- Attempted to grout the dead end pipe sleeves to create a plug for grouting the vertical PT tendons at W2E and W2W. A couple of tests were performed on the grout with the following results
  - Efflux time,  $t_e = 14$  seconds
  - Ambient Air Temperature,  $T_A = 60^\circ\text{F}$
  - Grout Unit Weight  $\gamma_G = 132\text{pcf}$  (S.G. = 2.12) Caltrans &  $133\text{pcf}$  (S.G. = 2.13) SDI.  
The minimum required for compressive strength is  $135\text{pcf}$  using the mud balance.
  - Bleed test was done by Ken Beede which proved the grout wasn't segregating.
  - Grout cubes were not taken since the unit weight wasn't acceptable.

I informed SDI foreman Erin Jones that broken grout bags would be rejected. Some of the cementitious grout used had to be forcefully graded through the screen which indicated poor material quality. The paddles of the mixing machine were operating at full speed causing an increase in grout temperature. The temperature of the grout wasn't even tested due to the steam coming off the top of the grout in the mixing tank. The birds mouth was set to 280mm, 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. Based on the unit weight of the grout and the other observations noted above I rejected the grout to be placed. It should be noted that SDI or ABF didn't have an engineer onsite for quality control. SDI foreman Erin Jones informed me that a new grout pallet would be shipped onsite Monday September 21<sup>st</sup>, as well as a water meter independent of the grout machine. As a result no vertical PT tendon dead end sleeves were grouted today.

- Installed grout valves to the dead end plug tubes on the bottom of the cap beam for the vertical PT tendons at both W2E and W2W.
- Mobilized equipment for pushing cable tie down strand near the W2E columns.

### Office and work:

- Wrote today's diary.
- Reviewed pertinent grouting specifications and documents.

### 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-17-2009 W2 Cap 001
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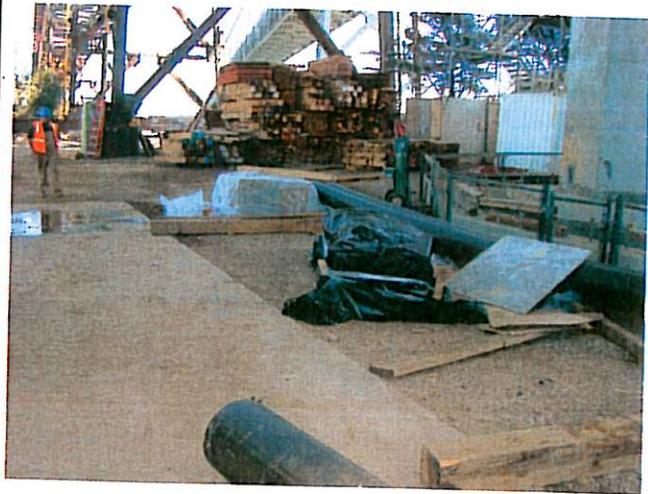
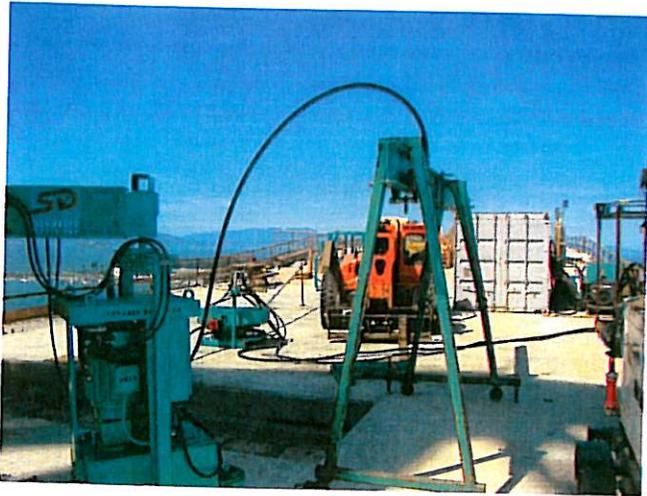
Date:	09-17-09	By Int:	M Bruce
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Description: SDI grouting equipment used which was the same piece of equipment used back in April for the transverse tendons. The machine made a large noise when started this morning. The equipment may not be suitable for producing quality grout. I informed SDI foreman that this machine should probably be taken out of service. Also note the broken grout bags adjacent to the grouting mixer.

File Name:	Sept-17-2009 W2 Cap 003
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Date:	09-17-09	By Int:	M Bruce
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Description: Disposing rejected grout which was intended to be placed in the dead end pipe sleeves of the vertical PT tendons.



File Name:	Sept-17-2009 W2 Cap 005
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Date:	09-17-09	By Int:	M Bruce
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Description: SDI set up the strand pushing equipment to be used for placing the cable tie down strand at pier W2E.

File Name:	Sept-17-2009 W2 Cap 006
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Date:	09-17-09	By Int:	M Bruce
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Description: Prior to leaving the jobsite SDI ironworkers covered the cable tie down and continuity tendon anchorheads with plastic.