STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

Form HC-10A (Rev. 6/80)

Job Stamp
04-0120F4
SFOBB SAS

Const. Calendar: 873
Project Work Day No.: 1083

Date 05/04/2009

Inspectors Hours Start 06:30 Stop 11:30
Shift Hours 06:30 15:00

ASSISTANT RESIDENT ENGINEER'S

CONTRACTOR – ABFJV, Subs SDI and CMC-RS

EQUIPMENT AND/OR LABOR:

Equip. #	NO. MEN	DESCRIPTION (Of Equipment or Labor)	HOURS - ITEM NO. #34 Prestressing Cast-In-Place Concrete (Pier W2)									IDLE OR DOWN	REMARKS Name	Contractor
1	1	Field Superintendent	8										Ralph Craig	SDI
2	1	Ironworker Foreman	8										Erin Jones	SDI
3	1	Ironworker Journeyman	8										Darrin Kurz	SDI
4	1	Ironworker Journeyman	8										James Carriker	SDI
5	1	Ironworker Journeyman										8	Randy Hill Jr.	SDI
6	1	Materials Technician	4										Joel Nadler	Smith Emery
HPU-E- 30-10K-02	1	A-Frame Ram Support								Shipped offsite				SDI
HPU-D-110-3K-02	1	Hydraulic Pumping Unit								Shipped offsite				SDI
SPH.60.3K.06	1	Strand Pushing Unit								Shipped offsite				SDI
CH600-8-110	1	600 Ton Ram								Shipped offsite				SDI
CH820-8-03	1	820 Ton Ram								Shipped offsite				SDI
B-117	1	110 Ton Ram								Shipped offsite				SDI
B-36	1	110 Ton Ram								Shipped offsite				SDI
HPU-E-10K-21	1	Hydraulic Pump								Shipped offsite				SDI
CH150-5-4	1	150 Ton Ram								Shipped offsite				SDI
	1	150 Ton Ram								Shipped offsite				SDI
	1	Grout Mixer	8											SDI

Weather: Overcast in the morning with periods of heavy fog with cool to mild temperatures, and rain clouds were developing in the afternoon – Hi 65°F Low 52°F (per weather.com forecast)

Description of Operations @ W2 Cap Beam:

ABF

- Continued bushing the concrete sufaces of the W2W continuity tendon blockouts.
- Continued to remove W2E continuity tendon blockout forms and polystyrene grout pad blockout for the W2E Hinge K assemblies at the the west end of the cap beam.
- Assisted SDI with mobilizing grout pallets near the grout mixing equipment.
- Continuing to disassemble the woodshop on the north end of the W2E caissing.
- Began to mobilize materials and prepare for stripping the W2 falsework.

CMC-RS

- Continued to place horizontal and vertical #19 rebar at the W2W construction joint with the OBG, see Lalit's diary for additional details and labor.

SDI

- Grouted the 98 long vertical bars at W2W.

Notes:

1) Smith Emery representative Joel Nadler was onsite and made grout cubes(one set made), tested ambient/grout temperatures and efflux times for the VB-120 to 126 bars.
2) The ambient/grout temperatures were taken several times due to the fact that the grout temperatures were around 90°F. The grout efflux times measured for VB-120 to 126 and VB-84 to 90 were over 11 seconds. The mud balance and quiescence tests were not done today. The manufacturer recommendations for SIKA 300PT grout is vague regarding the temperature limits.
3) Saman inspected the grout mixing/took grout temperatures as I watched the outet valves. The outlet valve wasn't closed untill there was "good" grout. See his diary regarding specific details related to the high grout temperatures. In a few cases water came out before the "good" grout was seen. Vertical bars 120 to 126, 99, 108, and 126 were grouted with a puddle of water around the bars. It is likely that the grout pushed all of the water out of the duct since the grout unit weight is 125pcf and water is 62.4pcf. However SDI was informed that due to the drop in grout head the bar would need to be "topped off" to fully encase the bar.

Office work:

- Continued to work on stressing and grouting paperwork.
- Wrote todays diary.

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:	May-04-2009 W2 Cap 001		
Date:	05-04-09	By Int:	M Bruce

Description: SDI ironworkers grouting vertical bar VB-107 at W2W. It took 43 seconds on average to grout these ducts. After the pressure from the pump was released and the grout valve was closed the grout head dropped roughly 50 to 80mm from the hexnut grout vents.

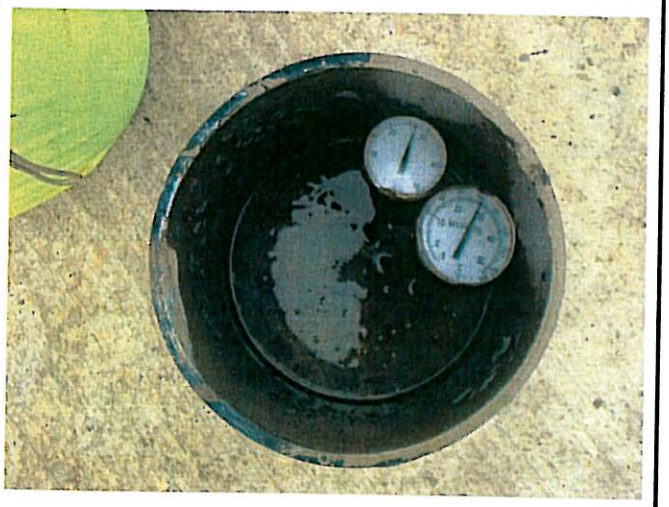
File Name:	May-04-2009 W2 Cap 004		
Date:	05-04-09	By Int:	M Bruce

Description: Grouting operation setup for the W2W long vertical PT bars. The grout mixing equipment was still located at the south end of the cap beam.

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

File Name:	May-04-2009 W2 Cap 005		
Date:	05-04-09	By Int:	M Bruce

Description: Grout temperature at the grout mixer of 89°F at 9:00am. SDI ironworkers were warned several times to keep the temperature down otherwise measures would need to be taken to cool the grout temperature down. There were a few instances where the temperature exceeded 90°F.



File Name:	May-04-2009 W2 Cap 006		
Date:	05-04-09	By Int:	M Bruce

Description: Grout temperature at the end of the hose was found to be 81°F at 9:05am. It was then determined that the grout was being mixed too fast or in high quantities at the grout mixing equipment.

File Name:	May-04-2009 W2 Cap 008		
Date:	05-04-09	By Int:	M Bruce

Description: SDI ironworkers "topping-off" the long vertical bars at W2E. As stated above the drop in the grout head after the release of pressure from the grout pump left part of the bar un-grouted.

File Name:	May-04-2009 W2 Cap 010		
Date:	05-04-09	By Int:	M Bruce

Description: SDI ironworkers missed grouting VB-16W, when the grout mixing equipment was being cleaned. The ironworkers then mixed one bag of grout in a bucket per the manufacturers recommendation. The grout was then placed through the tubes and hexnut vents.