

Job Stamp 04-0120F4 SFOBB SAS

Const. Calendar:	730 and 731			
Project Work Day No.:	940 and 941			
Date	12/12/2008 and 12/13/2008			
Inspectors	Start	20:00	Stop	24:00
Hours		00:00		08:00
Shift Hours		07:00		15:30
		20:00		24:00
		00:00		08:00
		21:00		22:30

**ASSISTANT RESIDENT ENGINEER'S CONTRACTOR – ABFJV, Subs CMC-RS and Conco**

**Weather:** Partly overcast with light rain from 22:00 to 23:00 with cold temperatures on Friday – Hi 61°F Low 45°F; Clear with cold temperatures and winds up to 15mph on Saturday – Hi 51°F Low 39°F (per weather.com forecast)

**Description of Operations @ W2 Cap Beam:**

**ABF**

- Foreman Nigel Lohse directed Conco during the concrete placement regarding the sequence of placing concrete and curing operations.
- A crew was dedicated to watching the forms for any leaks/blow-outs during concrete placement.
- ABF surveyors shot miscellaneous points on the falsework and forms to monitor deflection and settlement.

**CMC-RS**

- Addressed remaining issues on my punchlist from 20:40 to 21:40. Had two ironworkers onsite during concrete placement to address any issues. To my knowledge there were no other issues related to rebar/PT ducts during the remaining concrete placement operation.

**CONCO**

- Placed approximately 1,650m<sup>3</sup> of Self Consolidating Concrete SCC (Mix design No. 161790) in the pour 5 limits to an elevation of 55.422m.

Time (military)	Comments
20:00	Arrived onsite and all three concrete pumps were mobilizing. Went to the top of the W2 cap beam and began last minute inspection.
20:40	Ironworkers began to address issues on my punchlist which included correcting the profiles of the following ducts: CBT-20, W-13B, W-15B, W-16B, and W-17B. The vertical PT tendon ducts were fixed earlier in the day by ABF piledrivers.
22:00	First pair of trucks arrive and flow tests begin with a slump flow of 32" and 27". The temperature of the concrete in the wheelbarrow was 60°F taken by the infrared thermometers.
22:20	Approximate time of first concrete placement at the forms starting in the transverse wall. Two pumps were operational at this time located on the southwest and east sides of the pour 5 area. I told ABF/Conco foremen to not place the end of the hose on the sloped forms as the concrete was flowing off the forms. Pamela Gagnier and myself watched concrete placement at the forms.
22:40	I called Victor Altamirano to confirm the slump flow and he informed me that the measured spread was ranging from 27" to 29". The concrete placed at the forms looked very good at this point.
00:15	The third pump on the northwest end of the cap beam starts placing concrete.
05:30	Massoud Modanlou, and myself were watching the concrete placement at the forms as Pamela left the jobsite at this time.
08:00	Concrete placement was still in progress when I left the jobsite as Massoud and Ron Matin were responsible for watching the remaining concrete placement and curing operations.

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**Additional Notes/Comments:**

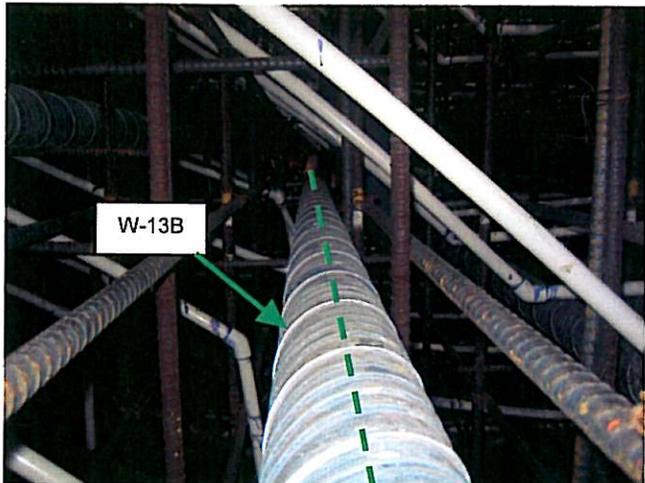
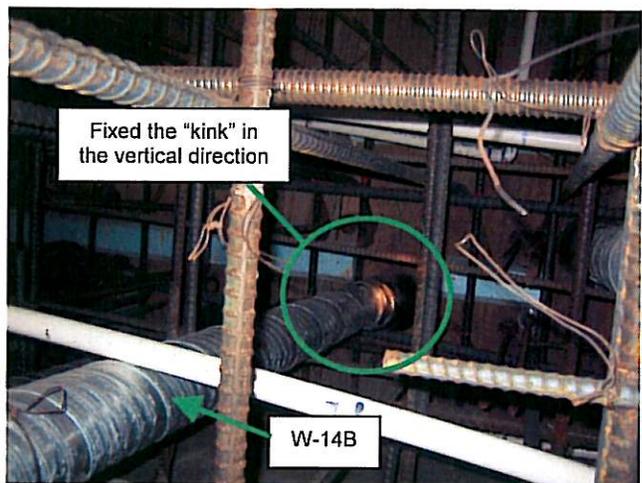
1. My diary is for the concrete placement that I observed.
2. The lighting was adequate most of the time for inspection and safety. However it was very difficult to see near the column cages regardless of the lighting.
3. Overall the placement of concrete went well as the flow looked consistent with no segregation. No vibration to "awake" the SCC was done to my knowledge while I was in the field. The SCC at the end of the pour appeared to look too "wet" at times.
4. ABF and Conco were told to be cautious of the ducts/trumpets & water cooling pipes while placing concrete.
5. ABF didn't fix the few deviation saddle anchor rods that weren't normal to the Panel CC forms prior to concrete placement.

**Office and miscellaneous work:**

- Reviewed stressing documents (Submittal 150), plans, and specifications.
- Helped David Chung retrieve the first 28 concrete cylinders from the field and put into the water baths at the Pier 7 warehouse.
- Began to write today's 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	
 <p>W-13B</p>		 <p>Fixed the "kink" in the vertical direction</p> <p>W-14B</p>	
File Name: Dec-12 and 13-2008 W2 Cap 006		File Name: Dec-12 and 13-2008 W2 Cap 009	
Date: 12-12-08	By Int: M Bruce	Date: 12-12-08	By Int: M Bruce
Description: Photo of continuity tendon W-13B taken near the east bulkhead looking west after the ironworkers straightened out the duct.		Description: The trumpet to duct connection for continuity tendon W-14B was fixed in the vertical direction.	

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



File Name:	Dec-12 and 13-2008 W2 Cap 010		
Date:	12-12-08	By Int:	M Bruce
Description: Vertical PT tendon duct that was plumbed prior to concrete placement.			

File Name:	Dec-12 and 13-2008 W2 Cap 013		
Date:	12-13-08	By Int:	M Bruce
Description: SCC placement near the north end of the sloped void forms at 01:00am.			



File Name:	Dec-12 and 13-2008 W2 Cap 015		
Date:	12-13-08	By Int:	M Bruce
Description: Temperature taken at 01:00am taken near the north end of the sloped void forms.			