



Daily Diary Report by Bid Item

Contract No.: 04-0120F4

Diary #: 099 Const Calendar Day: 316 Date: 21-Jul-2010 Wednesday

Inspector Name: Bruce, Matt Title: Transportation Engineer

Inspection Type: Continuous

Shift Hours: 06:30 am 03:00 pm Break: 00:30 Over Time:

Federal ID:

Location:

Reviewer: Mathur, Lalit Approved Date: 24-Jan-11 Status: Approved

04-0120F4
 04-SF-80-13.2/13.9
 Self-Anchored
 Suspension Bridge

Weather

Temperature 7 AM 50 - 60 12 PM 50 - 60 4PM 50 - 60

Precipitation 0.00"

Condition Overcast in the AM to Sunny in the PM

Working Day If no, explain:

Diary: Dispute

Work description.

- Began to process and analyze the grouting operations done on the WB continuity tendons today.

04-0120F4 Bid Item: 034 X-W2C-BCT.034 E-W Line Cross Over W2 Cap Cap Beam Continuity Tendons
 SCHWAGER DAVIS INC.

Labor

Trade	Class	Name	RT Hrs	OT Hrs	DT Hrs	Total	Remarks	Dispute
Contractor: SCHWAGER DAVIS INC.								
Ironworker	JNM	Brian Nobile	0.00	0.00	0.00	0.00		<input type="checkbox"/>
Ironworker	FOR	Erin Jones	0.00	0.00	0.00	0.00		<input type="checkbox"/>
Ironworker	JNM	James Carriker	0.00	0.00	0.00	0.00		<input type="checkbox"/>
Ironworker	JNM	James Bond	0.00	0.00	0.00	0.00		<input type="checkbox"/>
Ironworker	JNM	Bounthaby Singharath	0.00	0.00	0.00	0.00		<input type="checkbox"/>
Ironworker	GEN	Ralph Craig	0.00	0.00	0.00	0.00		<input type="checkbox"/>

Diary: Dispute

Work description. 034 X-W2C-BCT.034

The following observations were taken during the grouting operation of the W1A to W42A, and E41B continuity tendons today:

The grouting operation began at 7:00am with an ambient temperature of 54F. Sika grout 300 PT was used today as in previous grouting operations for the W2 and E2 cap beams. The initial temperature of the grout was 78F, the efflux time was measured at 18 seconds, and the specific gravity (S.G) of the grout was 2.14 (133.5pcf) using the mud balance scale. The specific gravity relates to the water/cement ratio and determines the compressive strength of the grout. Smith Emery technician Sal took/made grout cubes for 7, 28, and 56 days and assisted/observed the first set of tests on the fluid grout. I also made grout cubes for the compressive strength of the grout after 7, 28, and 56 days.

Grouting started at continuity tendon W42A with a pumping pressure of no greater than 20psi prior to charging the tendon to approximately 50psi at which time the inlet and outlet valves were closed. On average it took 5-6 minutes to grout a continuity tendon using approximately 11bags of grout with 15 gallons of water.

The grout temperature at 8:16am measured 63F at the live end outlet grout tube/bucket after grouting CT-W29A using a thermometer. Similarly the grout temperature at 8:34am measured 68F at the dead end outlet grout tube/bucket after grouting CT-W23A using a thermometer.

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From 7:10am to 8:46am SDI ironworkers used approximately 5+ pallets of grout (40 bags a pallet) with the date 06/18/10 on the bag. The continuity tendons grouted from this time interval was W42A to W23A. The ironworkers were warned about using grout from the bags with this date. These were the bags shipped from Colorado to the SAS jobsite. It appeared that the bags were exposed to the weather prior upon arriving at the jobsite. A pallet of grout with the date 07/15/10 was used on continuity tendons W22A to W19A. Grout bags with the dates 06/18/10 were used for W18A to W7A from 9:26am to 10:11am. The remainder of the grouting was done with grout bags having the date of 07/15/10 on the bags from 10:11am to 10:58am.

The grouting operation was completed at 10:58am with no interruptions or noticeable problems during the operation. To my knowledge no leaking inside the OBG was observed. Overall the grout appeared to look acceptable and was mixed consistently.

- Removed temporary grout caps for the WB continuity tendons.

The following is the list of equipment that SDI has onsite since it is not currently inputted into PMIV:

Stressing Rams: 6-8-0014, 6-8-134, 6-8-141, and CH600-8-109

Hydraulic Pumps for Monostrand Rams: 3 units with no designated numbers on the equipment

Hydraulic Pumps for Multistrand Rams: 1 unit with no designated numbers on the equipment

Hydraulic Pump for Pushing Strand: HPU-D-110-3K-02

Strand Pusher: No number designated on the equipment

Grout Pump: No number designated on the equipment

Plasma Cutter (Hyperthern Powermax 1000G3 Series): No number designated on the equipment

Water Tank: ABF without any number designated on the equipment

- Refer to other Caltrans inspectors diaries for ABF and subcontractors (Conco and CMC-RS) operations and equipment at the W2 cap beam.

Attachment



Grouting operation setup for the WA continuity tendons.



Grouting operation setup for the WA continuity tendons.

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Precast cover slab work seen from the east end on the top of the W2 cap beam. See Philip and Lalit's diaries for more details.



Broken bags of grout sent from an SDI project in Colorado. The date on the bags was 06/18/10.