



SAS Superstructure

Location: 04-SF-80-13.2 / 13.9

Client Name: CalTrans

Run date 21-Nov-14

Time 11:27 PM

Daily Diary Report by Bid Item

Contract No.: 04-0120F4

Diary #: 517 Const Calendar Day: 905 Date: 01-Mar-2012 Thursday

Inspector Name: Bruce, Matt Title: Transportation Engineer

Inspection Type: Intermittent

Shift Hours: 04:30 am 04:00 pm Break: 00:30 Over Time: 03:00

Federal ID:

Location:

Reviewer: Schmitt, Alex Approved Date: Status: Submit

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

Weather

Temperature 7 AM 40 - 50 12 PM 40 - 50 4PM 50 - 60

Precipitation 0.18"

Condition Rain to cloudy with moderate winds

Working Day If no, explain:

Diary:

Dispute

Work description.

- Phil Latasa, Sami Dauok, Alex Schmitt, Daryoush Bahar, and myself checked the out to out distance for the cable strands today as Daryoush's and my measurements are tabulated below. Daryoush and I were responsible for both the north/south sidespans today. Similarly Sami and Phil were responsible for checking the north/south mainspans. Daryoush assisted me with the measurements and tabulating the data as I took all of the measurements unless otherwise noted. I used the Maletic gauge (#1) to take the out to out measurements of the cable strands.

All measurements by both crews were reported to Alex who was stationed in the Caltrans Connex recording and analyzing the data. When all of the measurements were completed, Alex was responsible for reviewing the measurements with ABF engineer Zach Lauria. See Alex's diary for more details related to the acceptance or rejection of cable strand sag adjustment.

The battery for the red temperature gauge was not charged. Therefore the ambient temperature was obtained from weather.com at the time of the measurements. Wind speeds were obtained from weather.com at the time of the measurements. The steel temperature measurements were taken with the digital thermometer placed on the outer cable strand wires.

The official sunrise time per weather.com for San Francisco today was at 6:40am. The following measurements were taken of the relative sag from cable strand number 1 at the given times below:

// South Sidespan //

Time = 4:43am

Ambient Temperature = 49F

Condition = Cloudy

Wind = WSW @ 10mph

ABF Surveyor(s) = James Allen and Ken Woon

Caltrans Engineer(s) = Matt Bruce and Daryoush Bahar

Cable Strand (mm)	Steel Temperature (F)	O-O (#1) CT / ABF (mm)	Theor (mm)	CT Delta
1	46.6	Baseline or Zero	78	0
63	47.2	731, 730 - Ave = 731 (-61) = 670 / 676	686	- 16
66	46.8	326, 328 - Ave = 327 (-61) = 266 / 272	286	- 20

Comments: All cable strands were considered to be free-hanging at the time of measurement on the south sidespan. I took all of the measurements while Daryoush assisted me with setting up the targets, being



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level, normal to cable, etc. A timber block was used on cable strand number 1 to obtain all of the measurements where the dimension is in () millimeters. The ABF numbers provided above were measured by James Allen.

// North Sidespan //

Time = 5:16am

Ambient Temperature = 49F

Condition = Cloudy

Wind = WSW @ 7mph

ABF Surveyor(s) = None at this time

Caltrans Engineer(s) = Matt Bruce and Daryoush Bahar

Cable Strand	Steel Temperature (F)	O-O (#1) CT / ABF (mm)	Theor (mm)	CT Delta (mm)
1	47.1	Baseline or Zero	78	0
63	46.8	653, 714 (-61) - Ave = 653 / 663	680	- 27
66	46.5	290, 292, 291 - Ave = 291 / 290	294	- 3
67	46.7	418, 416 - Ave = 417 (-61) = 356 / 350	359	- 3
68	46.9	470, 469 - Ave = 470 (-61) = 409 / 405	424	- 15

Comments: All cable strands were considered to be free-hanging at the time of measurement on the north sidespan. I took all of the measurements while Daryoush assisted me with setting up the targets, being level, normal to cable, etc. The measurement for cable strand number 63 was done from the north side of the cable on this span referencing strand one. A timber block was used on cable strand number 1 to obtain measurements where the dimension is in () millimeters. The ABF numbers provided above were measured by James Allen.

- All of the prescribed measurements were completed at 6:00am and conveyed to Alex. At or around this time I compared numbers with ABF surveyor Terry Denis. I mentioned to and warned Alex of the discrepancies amongst the ABF surveyors and I was prepared for a remeasure if necessary. The measurements below were taken by myself and the ABF surveyors on the sidespans today:

Span/CS#	James	Terry	Matt
NSS-63	663	657	653
NSS-66	290	299	291
NSS-67	350	359	356
NSS-68	405	414	409
SS-63	676	680	670
SS-68	272	270	266

- Continued to check the numbers and finalize the survey data done before and after the counterweight was placed on the YBITS W-Line bridge end cantilever.

- Attended OSC Winter Training in San Leandro.

Attachment



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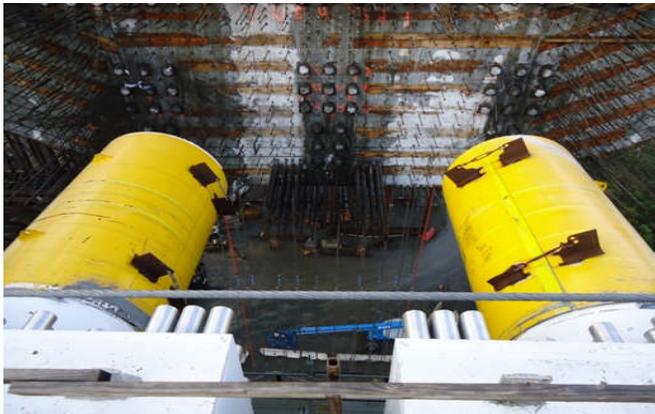
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Jason Wilcox's photo of the tie rods installed for the YBITS W-Line construction and tie-down.



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