



Daily Diary Report by Bid Item

Contract No.: 04-0120F4

Diary #: 496 Const Calendar Day: 879 Date: 04-Feb-2012 Saturday

Inspector Name: Bruce, Matt Title: Transportation Engineer

Inspection Type: Intermittent

Shift Hours: 05:00 am 06:30 pm Break: 01:30 Over Time: 04:00

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 50 - 60 4PM 60 - 70
 Precipitation 0.00" Condition Partly overcast

Working Day If no, explain:

Diary:

Dispute

Work description.

- The Alta Vista consultants were not scheduled to work today:
 Dave Garrett (survey party chief) = off
 Chris Ferrucci (instrumentman) = off
 Erol Schaller (rodman) = off

- John Lyons, Sami Dauok, and myself checked the out to out distance for the cable strands today as my measurements are tabulated below. John and Sami were responsible for both the north/south sidespans and west loop today. I was responsible for checking the north and south mainspans. I used the Maletic gauge (Yellow #1) to take the out to out measurements of the cable strands.

When all of the measurements were completed, I proceeded to meet with ABF engineer Zach Lauria at the top of the tower to discuss the measurements taken today. It should be noted that Caltrans engineers completed all of today's measurements by 6:35am. The discussion between myself and Zach began at 6:45am. I accepted the following cable strands today and signed the buy-off sheet at 6:50am:

North Side Span - 20

North Main Span - 13 & 18

South Side Span - 19

South Main Span - 13, 17, & 18

North West Loop - 21 & 22

South West Loop - 21 & 22

It is understood at this particular time that the tolerances for cable strand sag acceptance are +/- 20mm for the mainspans, +/- 30mm for the sidespans, and +/- 50mm for the west-loop until told otherwise.

Ambient temperatures were taken with the red temperature gauge. Wind speeds were obtained from weather.com at the time of the measurements. For steel temperature measurements, the infrared temperature gun probe was wedged in between the cable strand wires to obtain the steel temperature.

The official sunrise time per weather.com for San Francisco today was at 7:12am. The following measurements were taken of the relative sag from cable strand number 1 at the given times below:

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// North Mainspan //

Time = 5:05am

Ambient Temperature = 47F

Condition = Partly cloudy

Wind = E @ 1mph

ABF Surveyor(s) = Terry Denis and Mike Bonidici

Caltrans Engineer(s) = Matt Bruce

Cable Strand (mm)	Steel Temperature (F)	O-O (#1Y) CT / ABF (mm)	Theor (mm)	CT Delta
1	48	Baseline or Zero	75	0
13	48	380, 378 - Ave = 379 / 378	368	+
11				
17	48	282, 280 - Ave = 281 / 282	264	+ 17
18	48	334, 335 - Ave = 335 / 327	320	+ 15
19	48	425 / 422	377	+ 48
20	49	490, 491 - Ave = 491 / 490	434	+ 57

Comments: All cable strands were considered to be free-hanging at the time of measurement on the north mainspan. The ABF numbers used for comparison were measured by ABF surveyor Terry Denis. The maximum observed cable strand oscillations were +/- 10mm at this location.

// South Mainspan //

Time = 5:55am

Ambient Temperature = 47F

Condition = Partly Cloudy

Wind = E @ 4mph

ABF Surveyor(s) = None at this time

Caltrans Engineer(s) = Matt Bruce

Cable Strand (mm)	Steel Temperature (F)	O-O (#1Y) CT / ABF (mm)	Theor (mm)	CT Delta
1	47	Baseline or Zero	76	0
13	49	377, 380 - Ave = 379 / 378	377	+
2				
17	48	267, 267 - Ave = 267 / 267	267	0
18	48	318, 318 - Ave = 318 / 322	326	- 8
19	48	440, 440 - Ave = 440 / 437	384	+ 56
20	48	531, 529 - Ave = 530 / 535	443	+ 87

Comments: All cable strands were considered to be free-hanging at the time of measurement on the south mainspan. The ABF numbers used for comparison were measured by ABF surveyor Terry Denis.

The following are the measurements reported by John and Sami for the sidespan and west loop:

// North Sidespan //

Cable Strand	O-O (#1Y) CT (mm)	Theor (mm)	CT Delta (mm)
19	399, 399 - Ave = 399	407	- 8
20	475, 471, 474 - Ave = 473	472	+ 1

// South Sidespan //

Cable Strand	O-O (#1Y) CT (mm)	Theor (mm)	CT Delta (mm)
19	420, 420, 420 - Ave = 420	415	+ 5

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20 455, 452, 454 - Ave = 454 482 - 28

// North West-Loop //

Cable Strand	O-O (#1Y) CT (mm)	Theor (mm)	CT Delta (mm)
21	19	9	+ 10
22	128	103	+ 25

// South West-Loop //

Cable Strand	O-O (#1Y) CT (mm)	Theor (mm)	CT Delta (mm)
21	18	9	+ 9
22	123	103	+ 20

- Worked on compiling my measurements and placed the daily cable strand sag adjustment sheets on Alex's desk.

- Wrote an email to inform Alex, Sami, and John which cable strands would need to be measured tomorrow morning. It should be noted that I had to wait till the end of shift to obtain a list of cable strands which would be measured tomorrow. Per ABF engineer Zach Lauria at 6:30pm today the following list of cable strands was given:

North Side Span - 19, 21, & 22

North Main Span - 17 & 20

South Side Span - 20, 21, & 22

South Main Span - 15 & 19

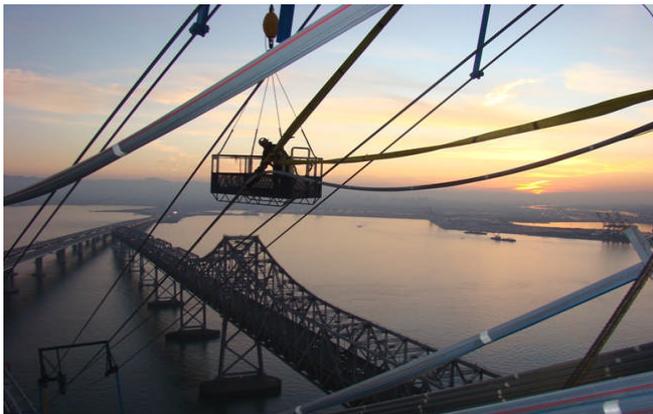
North West Loop - 23, 24, & 25 (Maybe)

South West Loop - 23, 24, & 25 (Maybe)

- Wrote an email to Bill Casey requesting access for the Alta Vista consultants to verify the centerline dimensions on the E and W Line OBG's next Wednesday and Thursday evening/early morning.

- Continued to write outstanding diaries.

Attachment



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ABF ironworker in the manbasket adjusting a floating clamp on a cable strand on the south mainspan at sunrise.



Condition as of today of the cable strands exiting the south tower saddle trough at the east face looking west.