Daily Diary Report by Bid Item

Contract No.: **04-0120F4**

Diary #: **286** **Const Calendar Day:** 963 **Date:** **28-Apr-2012** **Saturday**
Inspector Name: **Wright, Doug** **Title:** **Transportation Engineer**
Inspection Type: Continuous
Shift Hours: 06:45 AM 04:15 PM **Break:** 00:30 **Over Time:** 09:00
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** **12 PM** **4PM**
Precipitation **Condition**

Working Day ☑ If no, explain:

Diary: Dispute ☐

Cable Compaction

Overview of work today:
Cable compaction continued today on all spans.
- I was inspecting Jim Benninghove's crew on the North main-span. See below for details of the work performed, & a list of labor for this work.
- Laraine Woo was inspecting compaction on the South main-span.
- Saman Soheili was inspecting compaction the North side-span.
- Rob Feather was inspecting compaction on the South side-span.

- I arrived at the pier 7 office at 06:45, & was on the bridge at 07:00.

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Cable Compaction – North main-span:
- At 07:00, compaction started at PP91.5 (strap 90-7), where they stopped at the end of the night shift.
- Note: The strap spacing at the start of the shift (between night shift & day shift straps) was up to 1.30m (1.17 is the max). I mentioned it to the foreman, & spacing was not an issue for the remainder of the shift.
- At 08:05, compaction was on hold while they rigged a new winch line from the bottom of the catwalk to the compactor. This was needed because the current set-up of releasing the winch line from the Tower to let gravity roll the compactor down the span was not working reliably. Sometimes they would let off the winch line, but the compactor would not move due to the friction between the compactor frame rollers & the Cable. The winch at the bottom of the catwalk was used to give a slight pull to start the compactor rolling.
- The pressures were kept fairly constant during compaction. The normal operation was to bring up the jack pressures to about 8000 psi, & then hammer the Cable to excite the wires. This hammering would typically drop the pressures down to about 7000 psi.
- The production rate throughout the shift was a squeeze about every 15 to20 minutes.
- Note: at strap 94-4, there was a minor bent wire at the inbound side of the Cable.

The readings below were measurements taken by me on at the strap locations. They are after the load was released, & at a 20 degree rotation.

Strap 90-5: Height = 771mm - Width = 792mm
Strap 90-6: Height = 771mm - Width = 792mm
Strap 90-7: Height = 770mm - Width = 793mm
Strap 90-8: Height = 768mm - Width = 795mm
Strap 90-9: Height = 771mm - Width = 796mm
Strap 92-1: Height = 770mm - Width = 797mm - Cable band

Strap 92-2: Height = 770mm - Width = 795mm - Cable band
Strap 92-3: Height = 769mm - Width = 793mm - Cable band
Strap 92-4: Height = 774mm - Width = 795mm
Strap 92-5: Height = 772mm - Width = 794mm
Strap 92-6: Height = 771mm - Width = 794mm
Strap 92-7: Height = 769mm - Width = 792mm
Strap 92-8: Height = 770mm - Width = 793mm
Strap 92-9: Height = 769mm - Width = 793mm
Strap 94-1: Height = 770mm - Width = 795mm - Cable band
Strap 94-2: Height = 768mm - Width = 794mm - Cable band
Strap 94-3: Height = 768mm - Width = 794mm - Cable band
Strap 94-4: Height = 767mm - Width = 796mm
Strap 94-6: This strap was installed, but was still under the roller of the compaction frame, so no measurement was taken yet.
Strap 94-7: This strap had just been installed next to the compactor at the end of the shift.

Also, circumference measurements were taken at every strap. These measurements were recorded on the compaction inspection checklist.

- At the end of the shift, I met with ABF Engineer Ankur Singh to review the diameter & circumference measurements on the portion of the Cable that was compacted today. I agreed that the dimensions were acceptable, & signed the buy-off sheet.
- At 15:15, I left the bridge, & arrived back at the pier 7 office at 15:25.
- From 15:25 until 15:45, I spoke with Warren Collins & Tai-Lin Lui regarding the measuring of unstressed lengths on the Cable band bolts. I told them that I could most likely help him full-time starting on Tuesday.
- From 15:45 until 16:15, I wrote my diary for the day, & filled out the inspection checklist.
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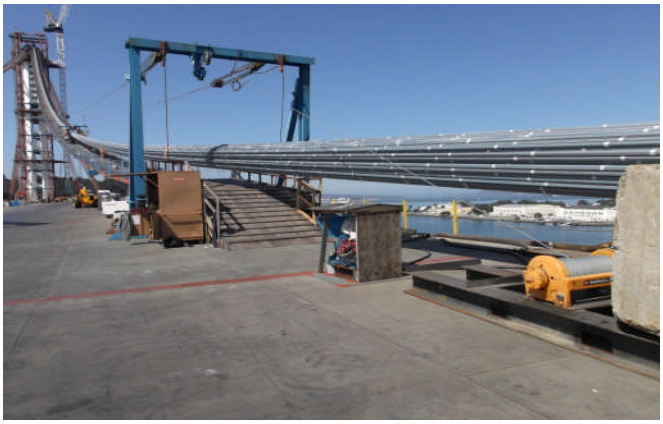
04-0120F4 **Bid Item: 067** **C-PWS-SUC.067** **Compact Suspension Cables**

AMERICAN BRIDGE/FLUOR, A JV

Labor

Trade	Class	Name	RT Hrs	OT Hrs	DT Hrs	Total	Remarks	Dispute
Contractor:	AMERICAN BRIDGE/FLUOR, A JV							
Ironworker	JNM	MICHAEL DRAPER	8.00	0.00	0.00	8.00		☐
Ironworker	JNM	MICHAEL PORTILLO	8.00	0.00	0.00	8.00		☐
Ironworker	APP	Tony Miranda	8.00	0.00	0.00	8.00		☐
Ironworker	APP	RYAN EVANCHIK	8.00	0.00	0.00	8.00		☐
Ironworker	FOR	JAMES BENNINGHOVE	8.00	0.00	0.00	8.00		☐

Attachment



Winch line from bottom of catwalk to compactor to aid in rolling downhill