



**SAS Superstructure**

Location: 04-SF-80-13.2 / 13.9

Client Name: CalTrans

Run date 21-Nov-14

Time 10:01 AM

**Daily Diary Report by Bid Item**

Contract No.: 04-0120F4

Diary #: 081 Const Calendar Day: 315 Date: 20-Jul-2010 Tuesday

Inspector Name: Brignano, Bob Title: Transportation Engineer

Inspection Type:

Shift Hours: Break: Over Time:

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	4 PM
Precipitation			Condition

Working Day  If no, explain:

**Diary:**

Dispute

**General Comments**

ITEM 52 FURNISH STRUCTURAL STEEL (BRIDGE) (TOWER);  
ITEM 55 FURNISH STRUCTURAL STEEL (BRIDGE) (BOX GIRDER);  
HIGH STRENGTH FASTENER ASSEMBLIES STORAGE:



ABF continues building the shed or "bolt barn" that will provide protected storage required by the RCSC for the High Strength Fastener Assemblies (A325 and A490) for the OBG and Tower. This will be a covered, 3-sided shed next to the warehouse. The storage space in the Pier 7 warehouse is not enough for the other material (mainly the PWS for the main cable) that needs to be stored there and all the high strength fastener assemblies that will need to be on site in protected storage prior to use.

The work today is starting to add the siding to the shed. There are 6 ironworkers and 1 operator working on this operation. They use 2 scissor-lifts, 1 manlift, 1 forklift, 1 little crane, and a generator.

ITEM 53 ERECT STRUCTURAL STEEL (BRIDGE) (TOWER);  
ITEM 56 ERECT STRUCTURAL STEEL (BRIDGE) (BOX GIRDER);  
HIGH STRENGTH FASTENER ASSEMBLIES - HYDRAULIC TORQUE WRENCH:

Today, I meet with ABF engineer Chris Bausone in the field from 1400 to 1430 to test using a hydraulic torque wrench for inspection torque purposes. For some locations on the bridge, air impact guns do not produce enough torque to tighten the larger diameter fastener assemblies and there is not enough clearance for the long air impact guns. In those cases, ironworkers will use hydraulic torque wrenches that fit in tighter spaces and produce more torque. Additionally, there is not enough space in some of these areas to fit the long lever arm of a dial-type torque wrench. ABF's submittal calls for using a hydraulic torque wrench to perform the torque verification of the assemblies. ABF sets up a manual (dial) Skidmore and hydraulic torque wrench. ABF tests gradually adjusting the dial on the hydraulic torque wrench to gradually increase the pressure until test bolts reach the appropriate tension in the Skidmore. Then, a manual (dial) torque wrench is used to obtain a torque value to compare with the pressure from the hydraulic torque wrench.

