



SAS Superstructure

Location: 04-SF-80-13.2 / 13.9

Client Name: CalTrans

Run date 21-Nov-14

Time 10:43 PM

Daily Diary Report by Bid Item

Contract No.: 04-0120F4

Diary #: 463 Const Calendar Day: 36 Date: 10-Jul-2012 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 4PM
Precipitation Condition overcast am, clear pm

Working Day [checked] If no, explain:

Diary:

Dispute

General Comments

[checkbox]

ITEM 69 ERECT SUSPENDER SYSTEM;
ITEM 60 ERECT STRUCTURAL STEEL (BRIDGE)(SADDLE);
BOLTIGHT LOAD VERIFICATION TESTING:

The Boltight load verification takes place in the Pier 7 warehouse at the east end. See Alex Schmitt diary for details. From Translab, Erin McCroy is present with loadcells. Two ABF ironworkers, Ricky Damboise and Steve Johnson, are present to handle the Boltight equipment. One ABF engineer, Andre Markarian, is present for portions of the testing, and ABF engineer Levi Gatsos is also present at the start of the day.

The test setup includes the use of cable band bolts and nuts (both ABF spares and CT left over QA samples not destructively tested), CT Translab load cells (2 each), CT Translab P3500 gages (2 each), and CT shim plates. ABF ironworkers swap out the Boltight equipment for each test and operate the hydraulic pump during the tests. Note that a washer under the nut is not used and is not necessary to check the accuracy of the tensioner pulling on the threaded end of the bolt.

The recently arrived shipment of new Boltight equipment has 34 Boltight jacks and bridges for 2" cable band bolts, and one jack with 2 different bridges and threaded inserts for 1-1/2" and 1-3/4" tie rods at the WJS and WDS. The shipment also includes other Boltight equipment, like pumps, hoses, and Tommy Bars. Today's Boltight load verification is for the first 23 of 34 Boltight jacks for 2" cable band bolts. Note that the testing is to verify the accuracy of the jack portion, with the puller, so all the different bridges (for turning the nut during tightening) are not tested - since there are 2 calibration/verification setups with load cells, only 2 bridges are used over the nut. Testing will continue tomorrow.

See the attachment with the tracking sheets from the load verification with the forces and pressures for each step. Seating loss for tightening the nut is performed on 4 of the 23 Boltight load verification tests.

INSPECTOR OT REMARK:

4 hours OT: Work in the office updating the cable band gaps and cable band bolt tension spreadsheet with new data from the field. Also make modifications to the plots per various requests for changes.

