



SAS Superstructure

Location: 04-SF-80-13.2 / 13.9

Client Name: CalTrans

Run date 21-Nov-14

Time 11:17 AM

Daily Diary Report by Bid Item

Contract No.: 04-0120F4

Diary #: 391 Const Calendar Day: 731 Date: 09-Sep-2011 Friday
Inspector Name: Bruce, Matt Title: Transportation Engineer
Inspection Type: Continuous
Shift Hours: 07:00 am 05:30 pm Break: 00:30 Over Time: 02:00
Federal ID:
Location:
Reviewer: Mathur, Lalit Approved Date: Status: Submit

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

Weather

Temperature 7 AM 50 - 60 12 PM 60 - 70 4PM 60 - 70
Precipitation 0.00" Condition Sunny

Working Day [] If no, explain:

Diary:

Dispute

Work description.

- Surveyed the tower and tower saddle during the pullback operation with the assistance of the District 4 surveyors. The following comments pertain to the sequence in operations and the conditions at the top of the tower saddle during the survey. Please note that the percent of the load and deflection were reported to me while I was at the top of the tower for the duration of the operation:

1.) ABF began the The tower pullback operation at 10:10am. Prior to pullback the District 4 surveyors shot the three mini prisms placed by ABF at approximate elevations of 64m, 88m, and 118m. The instrument used was a total station and the occupied point was a resection on the end of the eastbound Skyway structure. The one mini prism on the underside of the tower grillage couldn't be seen due to obstructions // Partly Cloudy, Ta = 56F, Ts = 55F

2.) Tower pulled back to 55% of the design load at 10:50am. District 4 surveyors shot tower saddle points K, L, M, N, Y, and Z // Mostly Sunny, Ta = 59F, Ts = 60F

3.) Tower pulled back to 70% of the design load at 11:40am. District 4 surveyors shot tower saddle points Y and Z // Mostly Sunny, Ta = 62F, Ts = 69F

4.) Tower pulled back to 82% of the design load at 12:40pm. District 4 surveyors shot tower saddle points Y, Z, and the three mini prisms at elevations 64m, 88m, and 118m // Mostly Sunny, Ta = 63F, Ts = 76F

5.) Tower pulled back to 105% of the design load at 2:10pm. District 4 surveyors left for the day and I used the GPS equipment to measure tower saddle points K, L, M, N, Y, and Z. The total movement at the top of the tower saddle using these points was an average of 416mm. The baseline measurements were taken with all four catwalks and cable tie back cables erected in the catenary position. The required amount of pullback is 518mm total from the free standing position of the tower. The operation ended at this point // Mostly Sunny, Ta = 63F, Ts = 76F

Coordinated with Saman Soheilifard, Douglas Wright, Sami Daouk, and the ABF rodman Steve Smith on the pullback operation while it was in progress. ABF surveyors shot two points on south and east corners of the tower saddle base plate. Please note that as the tower was pulled back the mainspan catwalk storm tie cables cables "kinked" the catwalks as they are attached to the tower. See photos below for more details and comments.

Attachment



Daily Diary Report by Bid Item

Job Name: 04-0120F4

Inspector Name Bruce, Matt

Diary #: 391

Date: 09-Sep-2011

Friday



The W-Line mainspan catwalk with a kinked section due to the tower pulback and storm tie cables.



Mainspan catwalks where there was noticeable kinks seen in the profile at the end of the operation.