



SAS Superstructure

Location: 04-SF-80-13.2 / 13.9

Client Name: CalTrans

Run date 21-Nov-14

Time 11:13 PM

Daily Diary Report by Bid Item

Contract No.: 04-0120F4

Diary #: 609 Const Calendar Day: 23 Date: 27-Jun-2012 Wednesday

Inspector Name: Bruce, Matt Title: Transportation Engineer

Inspection Type: Intermittent

Shift Hours: 05:30 am 04:00 pm Break: 00:30 Over Time: 02:00

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 50 - 60 12 PM 60 - 70 4PM 60 - 70

Precipitation 0.00" Condition Sunny

Working Day If no, explain:

Diary:

Dispute

Work description.

- Used GPS equipment and the automatic level to assign coordinates on the pre Load Transfer scan control point 300 for the survey conducted from Sunday June 17th at 9:00pm to Monday June 18th ending at 5:30am. The survey started at scan control point 300 where GPS equipment was used to take the first measurement at 180 epochs. Once this measurement was completed scan control point 301 was checked at 180 epochs. The GPS receiver was set on a tribrach and tripod to maximize the accuracy of the measurement.



The automatic level was then used to assign an elevation from scan control point 301 to 300. The elevation of scan control point 301 was established from control point TWL270 using the total station. A reciprocal trig-level was executed between scan control point 301 and TWL270. To reiterate scan control points 300 (east) and 301 (west) are located on the top of the erection tower.

The GPS survey began at 6:15am where the ambient temperature was 57F at the top of the erection tower. The wind speed was measured from the south west direction at 2mph. The planetary index or K-value during the time of the GPS measurements was 1 with a 24hr max of 2. The official time of sunrise was 5:50am per weather.com. During the survey the atmospheric conditions before and after sunrise were fair. The survey was completed at 6:25am which is just a few minutes after the official sunrise time. The steel temperature at the top of the erection tower was 55F. The survey with the automatic level began at 6:30am and was completed at 6:45am.

- Assisted District 4 scanners Robert Dolan and Randall Wigton with the pre Load Transfer scanning survey conducted on the new E2 foundation. The vantage point from the foundation captured the temporary trusses, E2 cap beam/columns, and the underside of the SAS/Skyway structures. The scanning survey began at 8:00am and was completed at 10:00am. The total station was used to check the coordinates of ABF project control points SAS-E2NE, SAS-E2SE, and SAS-E2SW with Caltrans project datum. The coordinates assigned by ABF were within survey tolerances. However it is understood that the coordinates used by ABF differ from Caltrans SFOBB east span project control coordinates.

The ambient temperature at the time of the survey was 63F and sunny conditions were observed. Wind speed measured at the E2 foundation was from the west at 5mph. The atmospheric pressure was 29.93"Hg. The steel temperature of the temporary truss columns were 65F for the portions in the shade and 70F for the portions exposed to the sun. There was a total of 3 scans done from the new E2 foundation. Existing ABF project control point SAS-E2NE was occupied for the scan. Two additional scan control points were created as 400 and 401. Scan control point 400 was located approximately in the center of the foundation. Similarly scan control point 401 was located in between ABF project control points SAS-E2SE and SAS-E2SW.



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- Used the automatic level to check the relative difference in elevations of ABF control points and the SCAN control points 400/401 with the assistance of District 4 surveyor Randall Wigton. ABF has four control points on the new E2 foundation located in the corners which are named SAS-E2NE, SAS-E2NW, SAS-E2SE, and SAS-E2SW. Since there are discrepancies in control and the elevations on the foundation will be checked after load transfer another level run was conducted. In this level run a temporary benchmark was placed on the westbound E3 foundation of the Skyway for future reference. This survey was conducted from 9:50am to 10:30am.

- Began to process some of the surveying data gathered today. Sent an email to Kevin Akin of the coordinates for the pre Load Transfer scan control point 300.

Attachment



Close-up of the North Mainspan cable after swing out operations looking west.



The erection of the end section of OBG lift 12W where two ringer cranes were used to make the pick.



Geometry of the Mainspan cable after swing out operations have been complete at sunrise today looking east.



Close-up of the North Mainspan cable after swing out operations looking east.