



Daily Diary Report by Bid Item

Contract No.: 04-0120F4

Diary #: 784 Const Calendar Day: 255 Date: 14-Feb-2013 Thursday
 Inspector Name: Bruce, Matt Title: Transportation Engineer
 Inspection Type: Continuous
 Shift Hours: 07:00 am 03:30 pm Break: 00:30 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 40 - 50 12 PM 50 - 60 4PM 50 - 60
 Precipitation 0.00" Condition Fog in the AM to sunny in the PM

Working Day If no, explain:

Diary: Dispute

Work description.

- Prepared to calibrate the Topcon GPS equipment for the SAS project.
- Attended weekly SAS Safety Tailgate meeting at 8:00am.
- Calibrated the Topcon GPS equipment occupying control points for 180 epochs. The following control points were observed:
 - TIN3 - NGS monument used as one of the Caltrans SFOBB control holds
 - 6056 - Flight target point at the isthmus of Treasure and Yerba Buena Islands
 - 6085, 6088 - Control points on the west side of Yerba Buena Island near the tunnel portal
 - 100 (Receive Reset 1970), 102, 6051 - Points in the US Coast Guard Base on YBI
 - 80, 108 - Points on the Treasure Island Navy Pier
 - SKY3 - Pseudo control point on the W-Line Skyway used to cover the east end of the SAS bridge. Since the Skyway structure moves, coordinates need to be established every time a calibration is conducted on this point

The calibration started at 11:00am and was completed by 2:30pm where the Planetary Index Value K went from 1 to 2. All points used in the calibration were done with a tribrack and set of legs to maximize the accuracy of the survey. Used the total station to provide the current coordinates of point SKY3. The backsight for this survey was control point 6056 and the occupied point was 80 as three direct/reverse rounds were executed to establish the point coordinates. The ambient temperature at the time of this survey was 61F under sunny skies with a barometric pressure of 30.23"Hg. Since the last time SKY3 was shot, load transfer Phases 1-4 occurred, Hinge A was connected, and seasonal thermal movement of the Skyway bridge took place.

Once the calibration was completed control point 80 was checked to verify that the calibration was done properly. Also points JA1001, WPP8.5C, WPP119C, EPP119C, and EPP125C which have a history on the SAS OBG were checked. For the point check, measurements were taken at 30 epochs using the bipod.

A reconnaissance was conducted for control points 6085 and 6088 for possible future surveys of the

Daily Diary Report by Bid Item

Job Name: 04-0120F4

Inspector Name Bruce, Matt

Diary #: 784

Date: 14-Feb-2013 **Thursday**

SFOBB west span. Both points were located with the GPS equipment as it appeared that control point 6085 had been disturbed since the original coordinates were established by the Caltrans District 4 surveyors a few years ago.

- Prepared to calibrate the Topcon GPS equipment for the OTD project.