



CONSTRUCTION OBSERVATION REPORT

Project: Cooley Lab

Date: January 12, 2012

Weather: Sunny, 20°

Job Progress and Observations:

1. Elevator Pit: The elevator pit and grade beams were poured 4" north of what is shown on the drawings. See RFI #72 and structural field drawing F-7 for modifications due to this. Other modifications resulting from this are currently underway.
2. Seismic reinforcement in basement along Grid Line 9: In the north east corner of the basement, there are existing utility lines that would need to be relocated to install the last three feet of seismic reinforcement. See RFI #77 for resolution of this issue.
3. Seismic reinforcement in stairwells: The east and west stairwells both had seismic reinforcement work being done in them.
4. Veneer anchorage: Most of the Spira-Lok veneer ties had been installed.
5. Anchor bolts at roof: Some of the anchor bolts on the columns were not installed. According to Don Platisha this was due to the location of the existing reinforcing. The columns that only carry vertical loads are adequate as is. However, any columns that carry vertical and lateral loads (the columns that have rod bracing attached to the bottom) need to have the number and type of anchor bolts shown on the drawings.
6. Bolts on roof: The bolts that were supplied for the connection at the roof ridge (Detail 4/S3.2) were too short. Bolt length should typically be long enough that the bolt extends beyond or is at least flush with the outer face of the nut. Observing the connections from the concrete deck, it appeared that the bolt was not quite flush with the nut. However, since this is a lightly loaded shear connection, the bolts will be acceptable as installed.
7. Reinforcing at roof: The pumice insulation concrete was removed from the roof. In two places the top reinforcement in the east-west direction was exposed when some of the roof deck concrete came off with the insulating concrete. The FRP reinforced design of the roof deck does not depend on the negative (top) reinforcement. Therefore, these areas can be patched as required without other rework.

Submitted by:

Jerome Gannon, P.E.

Aegis Engineering Incorporated