

FIELD REPORT #6

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**Project No.:07-003 Date: March 27/28, 2007
Project Name: Mercy Hospital
Project Location: Portland, Maine
Weather Conditions: Sunny, low 40's
Contact Person(s): Steven Grant-SRG Eng.
 James Lanza-Gilbane Co.
 Butch-American Steel
 Mike Drew-QA Labs**

Discussion/Observations: Level 1

**C: Shawn Welty-KLMK Paul Stevens-SMRT
Janusz Wszola (EOR)-SMRT Roger Domingo-SWC
Cathy Streifel-SMRT James Lanza-Gilbane**

3/27/07 and 3/28/07: SRG Observations: (Level 1: Between Grid Lines 1 to 3)

1. I spoke with Mike Drew (QA labs) at the job site on 3-27-07 prior to my walk-through. He indicated most of the section located between grids C to H are ready for concrete placement. There were a few shear studs that were not correct or missing, which Mike marked with blue ribbon. Studs required to be added were also placed upside down as a marker. Mike will be returning tomorrow (Wednesday) to finish inspection of Level 1. My personal walk-through of this section led me to believe Mike was correct in his evaluation. Jim Lanza indicated Mike Drew showed Butch these few locations requiring additional work. Butch indicated that all beams were also checked by him to be sure studs were added where required to account for studs not being located on the "strong side" of deck web.
I spoke with Mike Drew around 10am on 3-28-07 and he indicated that he did complete their inspection of shear studs for Level 1 yesterday and found no additional work is required, and therefore, is acceptable for concrete placement. **ACTION REQUIRED: NONE**
2. Floor deck was welded 12"o.c, and typically had 3 side lap screws provided between supports with an approximate spacing of 24"o.c. Deck fastening observed is acceptable. **ACTION REQUIRED: NONE.**
3. Perimeter HSS4x4 and hooked rebar is in place per detail F1/SF502. A handful of hooked ends on Grid 1 were located closer than 1" to the perimeter angle. I spoke with Mike Cunningham at SMRT on 3-28-07 and he said hooked ends must be no less than 1" and no more than 3" clear from the perimeter angle. **ACTION REQUIRED: CONTRACTOR TO CHECK EACH HOOKED BAR AND ADJUST TO MEET REQUIREMENTS.** (This was discussed with Jim Lanza before SRG departed.)
4. Reinforcing at interior girders is in place per detail J9/SF501.
5. Rebar mats were located at floor penetrations. It appears the contractor used the slab-on-grade detail as shown on J1/SB501 and not J14/SF501. Rebar located parallel to the floor drain openings were #5 (not #4). Deck penetrations are already cut before the concrete is placed and cured. (SMRT detail calls for all unframed floor openings to be boxed out and deck to be cut after concrete is cured.) I spoke with Mike Cunningham 3-28-07 at 2pm and he said he just told the Contractor to add Light Gage reinforcing panel to the bottom of metal deck to help strengthen before concrete placement. **ACTION REQUIRED: CONTRACTOR TO REMOVE UPPER "DIAGONAL" MAT AND ADJUST #5 BAR MAT TO MEET THE FOLLOWING DISTANCE REQUIREMENTS: MINIMUM 2"/MAXIMUM 4" CLEAR FROM EDGE OF OPENING, AND MAX. 6" O.C. BETWEEN REBARS. ALSO, BARS MUST TO BE CENTERED WITH OPENINGS TO MAINTAIN PROPER BAR DEVELOPMENT PER CONTRACT DRAWINGS.** (This was discussed with Jim Lanza before SRG departed.)
6. Floor penetrations have screen mesh on each side to help eliminate concrete leakage.
7. Jim indicated concrete placement for this remaining section of Level 1, between Grids 1 and 3, is to be conducted Thursday, March 28, 2007.
8. Metal deck appears to have been cleaned. **ACTION REQUIRED: NONE.**
9. Column anchor bolts at grid H-2 are still not corrected. Top of bolt does not extend to top of nut. **ACTION REQUIRED: CONTRACTOR TO SUBMIT RFI TO SMRT IN ORDER TO OBTAIN METHOD OF REPAIR REQUIRED.**

Diagrams: (Please see attached SRG Photos 1-32 and 1-19)

C: File

Signed: _____