

FIELD REPORT #4

**SRG Engineering, Inc.
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**Project No.:07-003 Date: March 9, 2007
Project Name: Mercy Hospital
Project Location: Portland, Maine
Weather Conditions: Sunny, upper 20's
Contact Person(s): Steven Grant-SRG Eng.
 James Lanza-Gilbane Co.
 Butch –American Steel**

Discussion/Observations: Level 1

**Copies To: Shawn Welty-KLMK
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 Cathy Streifel-SMRT**

SRG Observations:

1. Welders working on column and bracing welds.
2. Column base at each Grid B-2 and C-2: Two (2) anchor rods are missing required washers. **ACTION REQUIRED: Provide required washer at each anchor rod not presently having one. See attached Photos 2 of 37 and 3 of 37.**
3. Column base at Grid H-2: The top of 2 anchor rods are located noticeably lower than the top of nut . **ACTION REQUIRED: EOR at SMRT to verify if this is acceptable and notify GC and SRG. See attached Photo 4 of 37.**
4. Column base at Grid D-2: There are two large holes in the base plate with one each side of the diagonal brace. **ACTION REQUIRED: (EOR at SMRT) to verify and notify SRG if these holes are simply "lifting holes" the fabricator used in shop fabrication, or if anchor rods are required. See attached Photo 1 of 37.**
5. Contractor was constructing the slab construction joint a couple feet East of Grid 3.
6. Small amount of snow and ice still present. Workers were using shovel and broom to remove.
7. Beams requiring 2 studs each flute (staggered with rib) or directly welded to beams varied in transverse spacing from approximately 1 to 4 inches. The following beams were observed to have transverse spacing less than 3 inches:
 Between Grids B and C: W16x31 beams (total 2 locations) located approx. 8ft and 16 ft from Grid 1.
 Between Grids D and E: W21x44 beam located approx. 20ft from Grid 1. (See SRG Photos 17 and 27 of 37)
 Between Grids E and F: W21x44 beam located approx. 20ft from Grid 1. (See SRG Photos 17 and 27 of 37)
ACTION REQUIRED: Contractor to check the beams indicated above, including all other beams at this level between Grids 1 and 3 that have transverse studs to be sure the 3 inch minimum transverse distance (perpendicular to beam span) is provided.
8. Beams with studs located in the same line with spacing less than 4 1/2 inches were observed at the following locations (See SRG Photo 21 of 37):
 Grid 1, between Lines A and B: W24x84 requires 57 studs, presently only 41 are effective due to inadequate spacing.
 Grid 1, between Lines B and C: W24x68 requires 51 studs, presently only 38 are effective due to inadequate spacing.
 Grid 1, between Lines C and D: W24x62 requires 64 studs, presently only 60 are effective due to inadequate spacing.
 Grid 1, between Lines F and G: W24x76 requires 60 studs, presently only 57 are effective due to inadequate spacing.
ACTION REQUIRED: Contractor to correct the beams indicated above, including all other beams at this level between Grids 1 and 3 that have studs (in the same row) spaced less than the 4 1/2 inch minimum distance parallel to beam span.
9. The following beams were noted to have less than required beam studs: **ACTION REQUIRED: Add stud(s).**
 A. Grid 2, Between Lines C and D: W21x62 had 23 studs, requires 26.
 B. Between Grids G and H: About 8ft West of Grid 2: W16x31 has 14 studs as required, but needs additional stud at South end since there is more than 3 feet from end of beam to the existing first stud.
 C. Between Grids D and E: W16x31 8ft West of Grid 4; had 13 studs, requires 14.
10. The following Girders were observed to have most (if not all) the original studs cut/grinded off and now waiting to be re-welded in order to adhere to EOR required minimum transverse and longitudinal stud spacing requirements: (See SRG photo 13, 26 and 28 of 37) **ACTION REQUIRED: Provide required stud quantity with correct spacing.**
 A. Grids B, C, D, and G: Between Lines 1 and 2
 B. Grid G: Between Lines 2 and 3.

Diagrams: (Please see attached SRG Photos 1 through 37)

C: File

Signed: _____