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RFI

To: Trent Perkins
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RFI #: 194
Date: 9/25/2012
Job: EB-02 Keller Springs Lofts
Phone: 877-777-5115

CC: Ryan Faulds (B.G.O. Architects, Inc.)

Subject: Structural support for the radius feature above B3 unit

Drawing: S2.41, 3/S5.02, 3/7.7, 3/5A, truss drawings R02
Spec Section:

Cost Impact: None
Schedule Impact: None

Request: **Date Required: 9/28/2012**

On the very northwest corner of turn section #2 we have the radius canopy feature on the roof. This area is located on the structural plans on sheet S2.41 and 3/S5.02. On structural sheet 3/S5.02 it is shown tied into the actual ceiling truss. However, on Panel Truss's approved drawings these are two separate trusses and they are not tied in. This is shown on Panel Truss sheet R02. I have drawn a very rough sketch showing how it's built and have concerns about proper anchoring of the piggy back trusses for wind shear. What you have is the flat ceiling trusses over the B3 unit with plywood roof decking. The flat trusses are R187- R197. Then on top of the roof decking you have the 870 piggy back trusses which form the radius feature. The problem I have is the R870 trusses need to be properly secured structurally for wind shear. I have spoken to Red River about this and they said Bob Cincar with Panel Truss said they had to design it this way. They also said that PPO would need to determine how we secure it and what type of anchors, straps or clips will be needed.

Attachments = Rough sketch
Photos #1= view of the upper R870 trusses on top of decking which is on top of the R 187- R197 trusses
Photo #2= another view of the R870 on decking over the B3 unit ceiling trusses
Photo #3= the approximately 2' diameter inter-circle where the R 870 meet in center
Photo #4= another view angle
Photo #5= a view of the feature from a distance
Photo #6= a view of the R187- R 197 trusses from inside the unit below.

Requested by: Bryan Pickler
Embrey Partners, Ltd.

Response:

Attach exterior ends of all piggy back trusses to framing/trusses below with CS18 coil strap. At interior end and along the length of all piggy-back trusses, attach to trusses/truss blocking (thru decking) at 24" on center with Simpson HGA10 clips. Fasten to piggy-back trusses with 4-SDS 1/4" x 1 1/2" screws. Fasten to supporting framing (thru decking) 4-SDS 1/4" x 3" screws.

Answered by: Trent Perkins
Parkin Perkins Olsen

Answered date: October 03, 2012