

**Date:** 03/27/2024

**To:** **Josh Sain**  
DR Horton - Raleigh Field - East Region  
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984-327-5439

**Re:** **Head Height Clearance Issue**  
Location: Lot 17 McKay Place (58 Hawksmoore Ln. Lillington, NC)  
JDS Project No.: RDU2403231  
Date of Inspection: 03/27/2024

A representative of JDS Consulting arrived on site to observe the issues reported to us by the client, which are presented, along with our recommendations, in this report.

### Observations

The client requested specifications to solve an issue on site where the clearance between an I-joint and the stairs leaves only 75" rather than the required 80". It was observed on site that the I-joint in question is a 14" deep BCI 4500 spanning 4' across the stairs. The I-joints are spaced 19.2" o.c. and directly above this I-joint is a non load-bearing wall.

### Recommendations

Based on our observations and review, the contractor may do the following:

- 1) Remove drywall as necessary and temporarily support the framing.
- 2) Remove the interfering I-joint and replace with a 2x6 beam of equal length. Install the 2x beam flush to the underside of the floor/wall above by installing vertical 2x blocking cut to the required size in the pockets at each bearing end. Secure the blocking and beam to the surrounding framing with 10d nails.
- 3) To transfer full bearing from the wall above, install an additional 4' long 2x4 to the 2x6 flush along the underside of the flooring, attached with (2) rows of 10d nails.
- 4) Install additional nailing boards as necessary to form new slope for ceiling between 2x6 beam and 14" I-joint.

If you have any questions or if I can be of further assistance to you on this project, please contact me at 984-332-1637.

Respectfully Submitted,  
Benjamin Lambert



Reviewing Engineer:  
Maxwell C. Danskin, PE