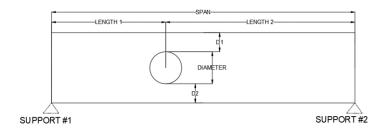


July 11, 2022

Summit Homes 120 SE 30th St. Lee's Summit, MO 64082

RE: Field Issues for Lot #146 Hawthorne Ridge – 3213 SW Arboridge Drive, Lee's Summit, MO 64082 – Permit # PRRES20220403



1. Holes within top 2" in floor joist above garage:

- D1 at or less than 2"
- D2 at least 2"
- Diameter of hole 2"
- Length 1 3'
- Length 2 11'
- Span 14'
- Support #1 Load bearing wall, rear of garage
- Support #2 Steel W10 x 17 garage beam
- Location Garage
- Loading -
 - Dead = 10 psf @ 16" oc
 - Live = 40 psf @ 16" oc

- D1 at or less than 2"
- D2 at least 2"
- Diameter of hole 2"
- Length 1 5.5'
- Length 2 8.5'
- Span 14'
- Support #1 Load bearing wall, rear of garage
- Support #2 Steel W10 x 17 garage beam
- Location Garage
- Loading -
 - Dead = 10 psf @ 16" oc
 - Live = 40 psf @ 16" oc

Recommended modifications:

- Install 24" length of CS-16 centered under each hole along bottom of floor joist per manufacturer's specifications.
- 2. Split floor joist above great room:
 - Split in floor joist was approximately 2' in length extending from load bearing rear wall great room.

Recommended modifications:

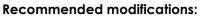
- Sister a 6' length douglas fir larch #2 2x10 to split floor joist.
- Glue and install four (4) fasteners per linear foot in a "W" pattern.
- 3. Overbored and less than 5/8" at edge of stud at fireplace:
 - Wall has approximately 165 PLF of roof load and exterior wall weight.

Recommended modifications:

• Install SS1.5 stud shoe on overbored stud.

OR

- Remove blocking and install rotated stud adjacent to overbored stud.
- 4. Overbored floor joist above bedroom 5:
- D1 at least 2"
- D2 at least 2"
- Diameter of hole 4"
- Length 1 1.5'
- Length 2 8.5'
 Span 10'
- Support #1 Bedroom 5 load bearing wall
- Support #2 Great room load bearing wall
- Location Above bedroom 5 closet
- Loading -
 - Dead = 10 psf @ 16" oc
 - Live = 40 psf @ 16" oc



- OBE101
 OP
 CP
 <th
- Install 24" length of CS-16 centered under hole along bottom of floor joist per manufacturer's specifications.

Sincerely,

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Bradley Huxol, PE

