

June 21, 2022

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

RE: Field Issue of over-bored stud and roof sheathing for Lot #132 Hawthorne Ridge -3116 SW Arbortree Drive, Lee's Summit, MO 64082 - Permit # PRRES20215763

Findings:

- 2 x 6 stud has been over-bored in the laundry room to allow for DWV.
- Hole is larger than 50% of stud depth and less than 5/8" from the edge of the stud.
- 2 x 6 stud is approximately 9' tall.

Recommended modifications:

Install stud shoe on over-bored stud. Attach per manufactures specs.

Model No.	Stud Size	W (in.)	Fasteners (in.)	Allowable Loads ¹ DF/SP			Code
				Floor (100)	Roof (125)	Tension	
				SS1.5	2x	1%	(12) 0.148 x 1 ½
SS2.5	Зх	2%6	(12) 0.148 x 1½	730	740	_	
SS3	(2) 2x	31/16	(12) 0.148 x 3	730	830	-	
SS4.5	(3) 2x	4%s	(14) 0.148 x 3	840	840	-	
HSS2-SDS1.5	2x	1%s	(12) 1/4 x 1 1/2 SDS	1,165	1,165	1,025	
HSS2-2-SDS3	(2) 2x	3	(12) 1/4 x 3 SDS	1,165	1,165	1,025	
HSS2-3-SDS3	(3) 2x	4%s	(12) 1/4 x 3 SDS	990	990	960	
HSS4-SDS3	4x	3%6	(12) 1/4 x 3 SDS	1,205	1,205	1,025	

Roof loads are 125% of floor loads unless limited by other criteria.
Floor loads may be adjusted for load durations according to the code provided they do not exceed those in the roof column.

Fasteners: Nail dimensions are listed diameter by length.
SIDS screws are Simpson Strong-Tier* Strong-Drive SIDS Heavy-Duty Connector screws. See pp. 21-22 for fastener in information.

Findings:

- Engineering sheathing was installed as roof sheathing with the overlay facing down.
- Installed roof sheathing can be used as roof or wall sheathing, per manufacturer.
- Sheathing has been installed with the strong axis parallel to truss chords.

Recommended modifications:

Structurally, the installed roof sheathing requires no modifications.

Sincerely,

Bradley Huxol, PE