

September 16, 2022

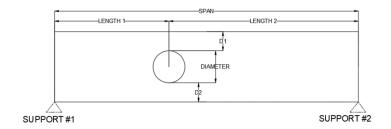
Summit Homes 120 SE 30th St. Lee's Summit, MO 64082

RE: Field Issue of overbored floor joist for Lot #15 Cobey Creek – 529 SE Carter Rd. Lee's Summit, MO 64082 – Permit # PRRES20220127

Inspector Comments:

- Address overbored floor joist for bath fan exhaust at great room.
- PFH portal bracing design per plans/IRC R602.10.6.2 at garage, missing top and bottom plate at header per design.

Overbored floor joist:



- D1 at least 2"
- D2 at least 2"
- Diameter of hole 4.5"
- Length 1 9'
- Length 2 6.5'
- Span 15.5'
- Support #1 exterior great room wall
- Support #2 bath #3 interior load bearing wall
- Location above great room
- Loading
 - o Dead = 10 psf @ 16" oc
 - o Live = 40 psf @ 16" oc

1		Total L	Ga.	DF/SP		SPF/HF		Allowable	I
	Model No.			Fasteners	End Length	Fasteners	End Length	Tension Loads (160)	Code Ref.
ı	CMST12	40'	12	(74) 16d	33"	(84) 16d	38"	9,215	14. L3. FL
ı				(86) 10d	39"	(98) 10d	44"	9,215	
ı	CMST14	52%	14	(56) 16d	26"	(66) 16d	30"	6,490	
ı				(66) 10d	30"	(76) 10d	34"	6,490	
	CMSTC16	54'	16	(50) 16d sinker	20"	(58) 16d sinker	25"	4,585	
ı	CS14	100'	14	(26) 10d	15"	(30) 10d	16"	2,490	
ı				(30) 8d	16"	(36) 8d	19"	2,490	
,	CS16	150'	16	(20) 10d	11"	(22) 10d	13"	1,705	
1				(22) 8d	13"	(26) 8d	14"	1,705	
ı	CS18	200'	18	(16) 10d	9"	(18) 10d	11"	1,370	
ı				(18) 8d	11"	(22) 8d	12"	1,370	
ı	CS20	250'	20	(12) 10d	6"	(14) 10d	9"	1,030	
ı				(14) 8d	9"	(16) 8d	9"	1,030	
ı	CS22	300'	22	(10) 10d	7"	(12) 10d	7"	845	
ı				(12) 8d	7"	(14) 8d	8"	845	
	2. Use half o 3. Calculate Allowable Example:	the cor Load -	nnecto No.	d nails in each or value for a ro of Nails Used of Nails in Tab in DF/SP with	member b educed nur 1 x Table i 1 le x Table tot	eing connected mber of nails a Load	d to achiev	wind or seismic loa e the listed loads.	iding.
				Nalls (Used)		*			
			-	ream (manu)					
	5. Nalls: 160	1 - 0.10	62° d	r uplift when in la. x 31/6" long, long, See pp.	16d sinker	= 0.148" dla.	x 3¼" long and inform	nation.	-

Recommended modifications:

- Install 36" length of CS-16 strap along bottom of overbored floor joist centered underneath hole.
- Install DFL #2 2x10 floor joist adjacent to the overbored floor joist.
- Install 2x10 solid blocking in bays adjacent to overbored floor joist where possible.

Omission of top and bottom plate at PFH at garage:

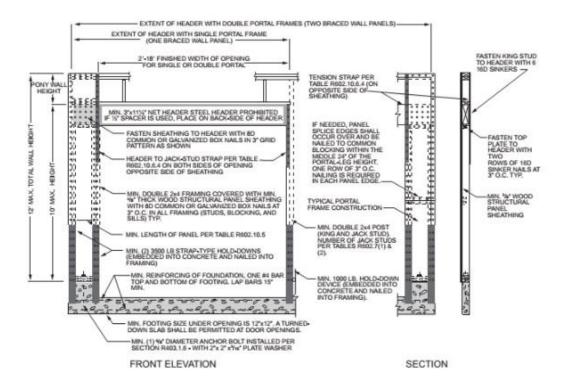


FIGURE R602.10.6.2METHOD PFH-PORTAL FRAME WITH HOLD-DOWNS

Recommended modifications:

 Install 36" length of CS-16 strap along stud pack on each side of garage door without current strapping.

Sincerely,

Bradley Huxol, PE

