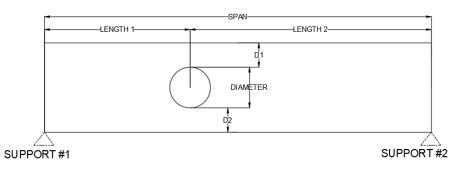


May 13, 2022

Clover & Hive 120 SE 30th St. Lee's Summit, MO 64082

RE: Field Issue of holes in bottom 2" of floor joists and top plate splice for DWV for Lot#11 Osage – 3711, 3713, 3715, 3717 SW Maryville Place, Lee's Summit, MO 64082 - PERMIT # PRRES20215064

This letter addresses the holes in bottom 2" of floor joists for electrical and top plate splice for Lot#11 Osage.



- D1 6.75" 5.75"
- D2 1"- 2"
- Diameter of hole 1.5"
- Located throughout

Recommended modifications:

Install a 36" length of CS16 strap per manufacturer's specs entered under the hole along the bottom of each overbored floor joist.

Top plate splice:

• Top plate is spliced for DWV

Recommended modifications:

Connect spliced ends of top plate with a minimum 16 gage x 1.5" metal tie with (8) 10d nails on each side.

		Total L	Ga.	DF/SP		SPF/HF		Allowable	
	Model No.			Fasteners	End Length	Fasteners	End Length	Tension Loads (160)	Code Ref.
	CMST12	40'	12	(74) 16d	33"	(84) 16d	38"	9,215	14, L3, FL
Э				(86) 10d	39"	(98) 10d	44"	9,215	
	CMST14	52%	14	(56) 16d	26"	(66) 16d	30"	6,490	
				(66) 10d	30"	(76) 10d	34"	6,490	
	CMSTC16	54'	16	(50) 16d sinker	20"	(58) 16d sinker	25"	4,585	
	CS14	100'	14	(26) 10d	15"	(30) 10d	16"	2,490	
				(30) 8d	16"	(36) 8d	19"	2,490	
	CS16	150'	16	(20) 10d	11"	(22) 10d	13"	1,705	
				(22) 8d	13"	(26) 8d	14"	1,705	
	CS18	200'	18	(16) 10d	9"	(18) 10d	11"	1,370	
				(18) 8d	11"	(22) 8d	12"	1,370	
	CS20	250'	20	(12) 10d	6"	(14) 10d	9"	1,030	
				(14) 8d	9"	(16) 8d	9"	1,030	
	CS22	300'	22	(10) 10d	- 7"	(12) 10d	7"	845	
				(12) 8d	7"	(14) 8d	8"	845	

3. Calculate the connector value for a reduced number of nails as follows:

Allowable Load = $\frac{No. of Nalls Used}{No. of Nalls In Table} x Table Load$

Example: CMSTC16 in DF/SP with 40 nails total. (Haif of the nails in each member being connected)

Allowable Load = $\frac{40 \text{ Nalls (Used)}}{50 \text{ Nalls (Table)}} \times 4,585 \text{ lb.} = 3,668 \text{ lb.}$

Tension loads apply for uplit when installed vartically.
Nalls: 16d = 0.162° dia. x 34° long, 16d sinker = 0.148° dia. x 34° long, 10d = 0.148° dia. x 3° long. See pp. 26–27 for other nail sizes and information.

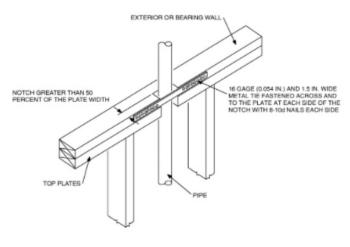


FIGURE R602.6.1TOP PLATE FRAMING TO ACCOMMODATE PIPING

Sincerely,

4

Bradley Huxol, PE

