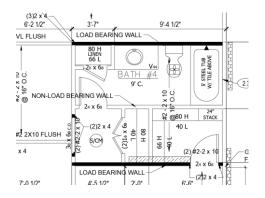


April 6, 2022

Summit Homes 120 SE 30<sup>th</sup> St. Lee's Summit, MO 64082

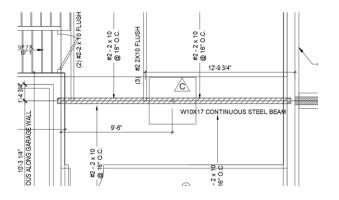
RE: Clarification of load bearing/non-load bearing walls, basement beam modification, bored floor joists for DWV within top/bottom 2", and PEX lines within 2" of each other for Lot #79 Reserve at Stoney Creek– 1422 SW Georgetown Lee's Summit, MO 64082 – Permit # PRRES20211949

Clarification of load bearing/non-load bearing walls:



#### Basement steel beam modification shall be as follows and as shown in image below:

- Steel beam shall be (Fy=50 ksi) W10x17 continuous
- Install 3" sch 40 steel column at 9.5' from garage foundation wall
- Saw cut slab and install "C" size footing at 9.5' from gargae foundation wall.



### Basement gas line within bottom 2" of floor joist:

- 1.75" from bottom of floor joist
- Approx. 2" diameter hole

## • Install a 2' length of CS-16 centered underneath hole per manufacturer's spec's.

# Holes within 2" of top/bottom of floor joist and within 2" of each other above Bed #5 in multiple floor joists:

- DWV 1.75' from top of floor joist
- Approx 2.5" DWV diameter hole
- DWV 2.25' from top of floor joist
- Approx 2.5" DWV diameter hole
- Within 2" of Pex line holes
- PEX lines within 2" of each other
- Approx 1" diameter hole

## $\circ$ Install a 2' length of CS-16 centered underneath hole per manufacturer's spec's.

### DWV above foyer:

- DWV 2.5" from top of floor joist
- Approx 2.5" DWV diameter hole

### $\circ$ Install a 2' length of CS-16 centered underneath hole per manufacturer's spec's.

	Model	Total L	Ga.	DF/SP		SPF/HF		Allowable						
	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					
	UNUT IZ			(86) 10d	39"	(98) 10d	44"	9,215						
	CMST14	52%	14	(56) 16d	26"	(66) 16d	30"	6,490						
	VIII.0114	01.72		(66) 10d	30"	(76) 10d	34"	6,490						
	CMSTC16	54'	16	(50) 16d sinker	20"	(58) 16d sinker	25"	4,585						
3	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						
	0322	300		(12) 8d	7"	(14) 8d	8"	845						
	1. Fasterer quantifies and end lengths are calculated using an increase for which or elsentric lo 2. Use hard of the equired naits in each methor being corrected to achieve the fated loads. 3. Calculate the connector value for a reduced number of naits as follows: Allowable Load _ No. Of Naits In Table Table Load								ding.					
Example: CMSTC18 in DF/SP with 40 nails total. (Haif of the naits in each member being connected)														
	Allowable	Load	- <u>40</u> 50	Nalis (Used) Nalis (Table)	4,585 lb.	= 3,668 lb.								
	4. Tension loads apply for upilit when installed vertically. 5. Nalls: 16d = 0.162° dia. x 316° long, 16d sinker = 0.148° dia. x 314° long, 10d = 0.148° dia. x 3° long. See pp. 26-27 for other nail sizes and information.													

Sincerely,

Bradley Huxol, PE



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