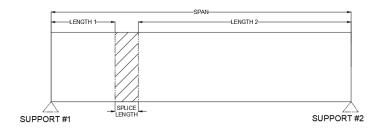


July 18, 2022

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

RE: Field Issues for Lot #143 Hawthorne Ridge – 3201 SW Arboridge Dr. Lee's Summit, MO 64082 – Permit # PRRES20216304

Comment #1: Floor joist cut for DWV at south basement:

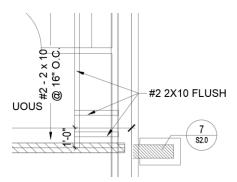


SIMPLE SPAN

- Splice length 6"
- Length 1-1'
- Length 2- 14'-7"
- Span 15'-7"
- Support #1 W10 x26 steel beam continuous
- Support #2 W8x21 steel beam
- Location under bath #1

Recommended modifications:

• Install header as shown in image below:



Comment #2: Floor joist cut for DWV at north basement:

- Splice length 9"
- Length 1-3.5'
- Length 2- 3.5"
- Span 7'
- Support #1 W8x10 steel beam continuous
- Support #2 stair load bearing wall
- Location under bath #4

Recommended modifications:

• Sister spliced floor joist with full length of DFL #2 2x10. Install glue and 4 fasteners per linear ft. in a "W" pattern.

Comment #3: Address top plate corner lap connection at great room to kitchen wall, double girder truss landing on 2x4 blocks above top plate, lateral restraint and uplift resistance.

Recommended modifications:

- Install 24" CS-16 strap per manufacturer's specs at each top plate with splice staggered less than 24" oc.
- Install CS-16 strap per manufacturer's specs wrapped around blocks supporting double GT and adjacent studs for pony wall.
- Install 24" length CS-16 vertically from top of blocks to bottom of header below.
- Install truss hangers per truss layout.

	Model No.	Total L	Ga.	DF/SP		SPF/HF		Allowable	Code	
				Fasteners	End Length	Fasteners	End Length	Tension Loads (160)	Ref.	
	CMST12	40'	12	(74) 16d	33"	(84) 16d	38"	9,215	П	
	UMS112			(86) 10d	39"	(98) 10d	44"	9,215		
	CMST14	5216	14	(56) 16d	26"	(66) 16d	30"	6,490		
	OMD114			(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	1	
				(30) 8d	16"	(36) 8d	19"	2,490	14, L3.	
3	CS16	150"	16	(20) 10d	11"	(22) 10d	13"	1,705	FL.	
29	Galb	150	10	(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		
		250	20	(14) 8d	9"	(16) 8d	9"	1,030		
	CS22	2 300'	22	(10) 10d	7"	(12) 10d	7"	845		
	Udez			(12) 8d	7"	(14) 8d	8"	845		
1. Fasteriner quantities and end lengths are calculated using an increase for wind or sessmic loading. 2. Live half of the engined nails in each member being connected to activate the fisted loads. 3. Calculate the connector value for a reduced number of natis as follows: Allowable Load — No. of Natis Lead x Table Load No. of Natis Table x Table Load										
Example: CMSTC16 in DF/SP with 40 nails total. (Half of the nails in each member being connected)										
	Allowable	Allowable Load = 40 Nalls (Used) x 4,585 lb. = 3,668 lb.								
4. Tension loads apply for uplift when installed vertically. 5. Nallet: 16d = 0.162" dia. x 314" long, 16d shiker = 0.148" dia. x 314" long, 1dd = 0.148" dia. x 310 long. See pp. 26-27 for other nall stares and information.										

Sincerely,

Bradley Huxol, PE

