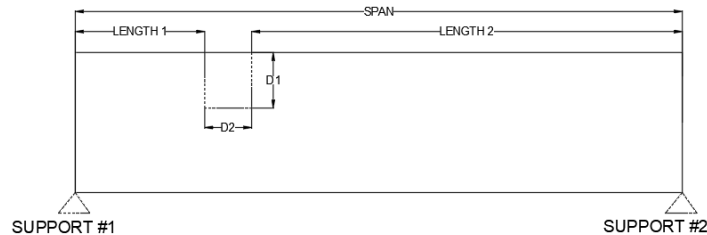


July 27, 2022

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

**RE: Field Issues for Lot #32 Woodside Ridge – 428 NW Kaylea Ct,
 Lee's Summit, MO 64081 – Permit # PRRES20215037**



SIMPLE SPAN

1. Notched floor joist under bath #2:

- D1 – 2 ½"
- D2 – 3 ½"
- Length 1 – 8' 6"
- Length 2 – 6' 5 ½"
- Span – 15' 3"
- Support #1 – W8 X 10 steel beam continuous
- Support #2 – W8 X 10 steel beam
- Location – Under bath #2
 - Dead = 10 psf @ 16" oc
 - Live = 40 psf @ 16" oc

Model No.	Strap Qty.	Installation	Fasteners (Per Strap) (in.)	Allowable Loads DF/SP		Allowable Loads SPF/HF	
				Compression (160)	Tension (160)	Compression (160)	Tension (160)
CTS218	1	One sided	(24) 0.148 x 1 ½"	1,125	2,270	970	1,970
	2	One sided		2,250	4,535	1,935	3,900
	2	Two sided		2,515	4,535	2,165	3,900
	3	Two sided		3,310	6,805	2,845	5,850
	4	Two sided		5,035	9,070	4,330	7,800
	1	One sided	(24) #9 x 1 ½" SD	1,175	2,510	1,010	2,160
	2	One sided		2,350	5,020	2,020	4,315
	2	Two sided		2,735	5,020	2,350	4,315
	3	Two sided		4,130	7,530	3,550	6,475
	4	Two sided		5,470	10,040	4,700	8,635

Recommended modifications:

- **Install CTS218 strap centered directly over notch at top edge of the floor joist. Install on both sides of floor joist per manufacturer's specifications.**

Sincerely,



Bradley Huxol, PE

