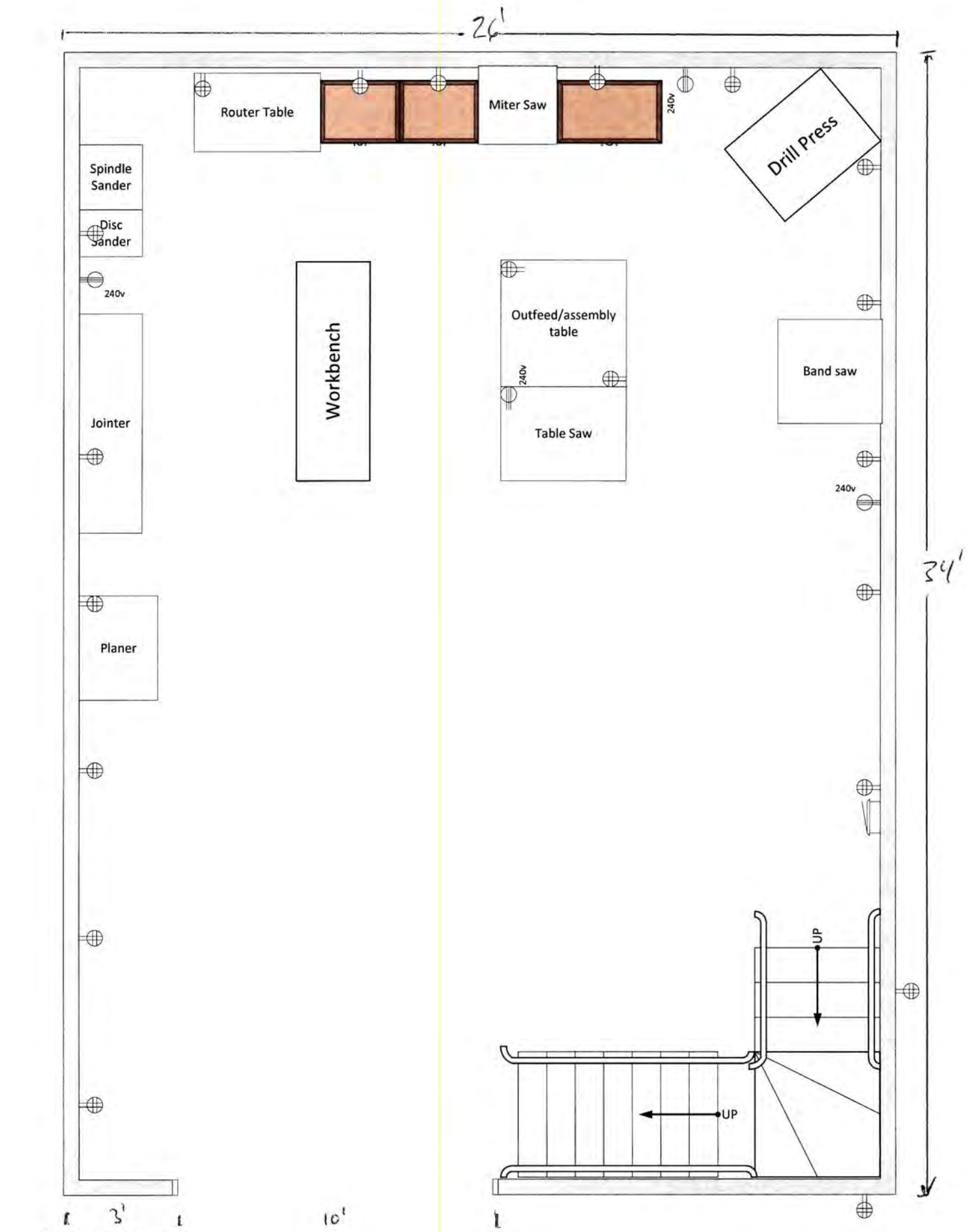


14.5 feet
Mean
Height

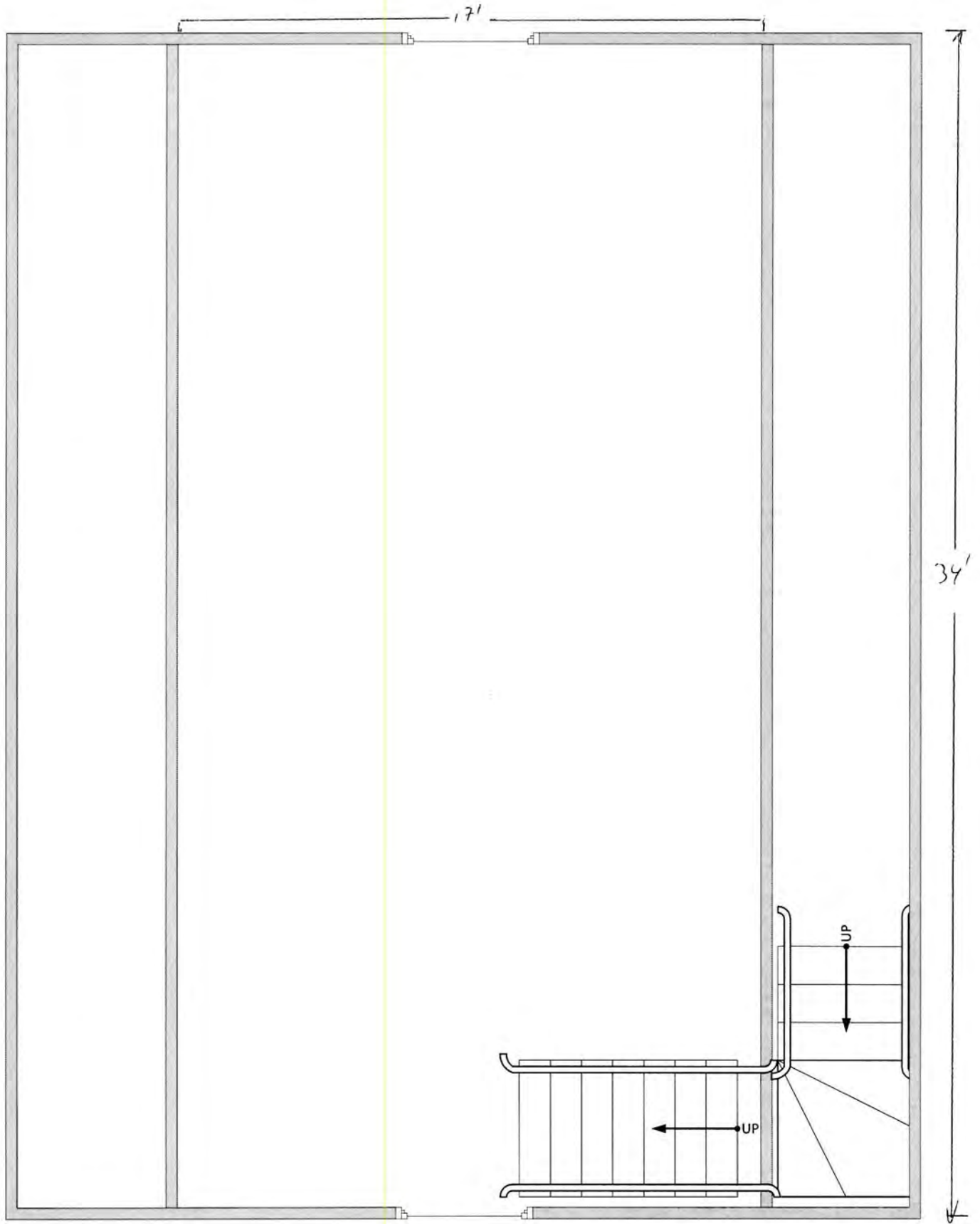
Front Elevation
 Gambrel Roof room in attic trusses
 1 10wX8h carriage door on main floor
 1 4x4 window on second floor



Side elevation
9ft side wall
19ft9in peak 14ft6in mean



Main Floor layout
 Primary Use - Woodshop



Upstairs room
17ftx34ft
Primary use storage/rec room
Window on each end

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
QTRPL0001383	GMB1	GAMBREL ATTIC	15	1	317.07

Midwest Manufacturing, Eau Claire WI 54703

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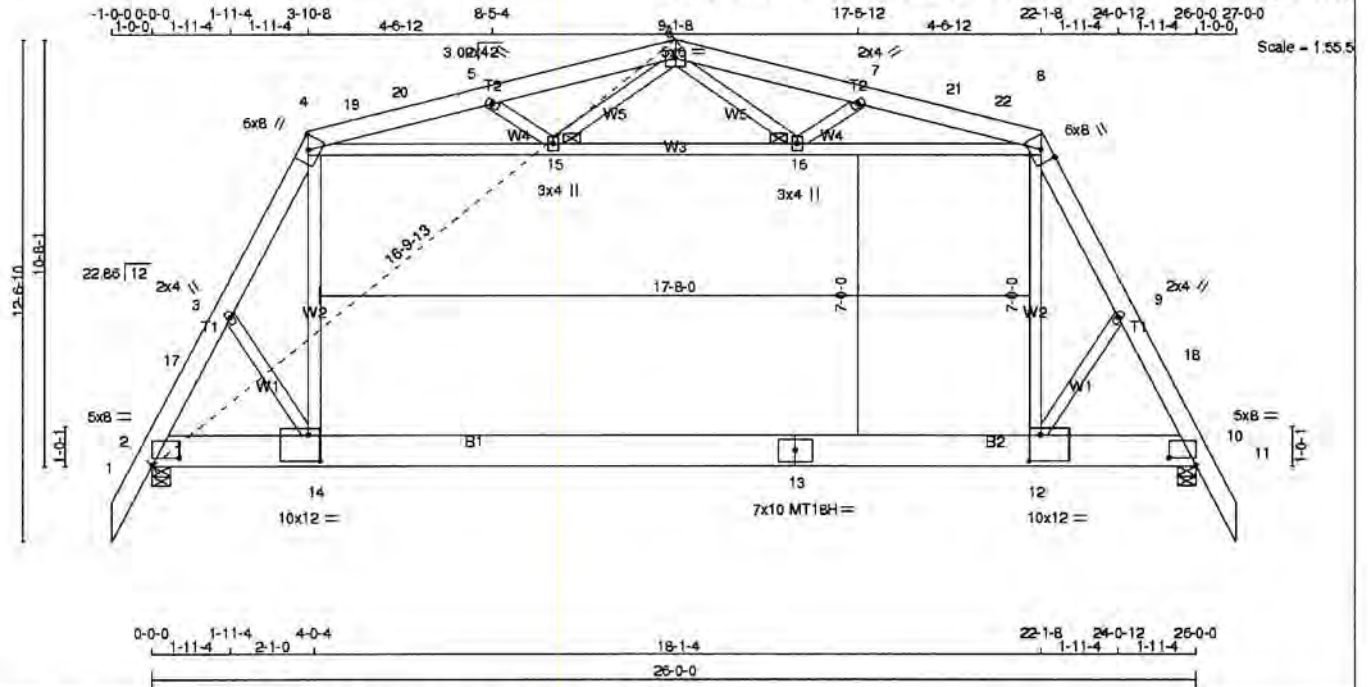


Plate Offsets (X,Y)-- [2-0-8-0-0-2-4], [10-0-8-0-0-2-4], [12-0-3-8-0-7-12], [14-0-3-8-0-7-12]

LOADING (psf)	SPACING	CSL	DEFL	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.23	Vert(LL) -0.35 12-14 >868 240	MT20	197/144
Snow (Ps/Pg) 7.0/40.0**	Plate Grip DOL 1.15	BC 0.47	Vert(TL) -0.55 12-14 >553 180	MT18H	244/190
TCDL 7.0	Lumber DOL 1.15	WB 0.80	Horz(TL) 0.02 10 n/a n/a		
BCLL 0.0 *	Rep Stress Incr YES	(Matrix)	Attic -0.32 12-14 674 360		
BCDL 10.0	Code IRC2009/TPI2007			Weight: 235 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SPF No.2
BOT CHORD 2x10 SP 2400F 2.0E
WEBS 2x4 SPF Stud *Except*
W3: 2x4 SPF No.2

BRACING-

TOP CHORD Sheathed or 4-0-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 15, 16

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=2269/0-5-8 (min. 0-1-14), 10=2269/0-5-8 (min. 0-1-14)
Max Horz 2=195(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-17=-3039/0, 3-17=-2943/0, 3-4=-2799/0, 8-9=-2799/0, 9-18=-2943/0,
10-18=-3039/0, 4-19=2192/474, 19-20=-2147/478, 5-20=-2144/482, 5-6=1877/400,
6-7=1877/400, 7-21=2144/482, 21-22=-2147/478, 8-22=-2192/474
BOT CHORD 2-14=20/1118, 13-14=0/1288, 12-13=0/1288, 10-12=0/1118
WEBS 4-15=-487/888, 15-16=-500/201, 8-16=-487/888, 4-14=0/1720, 8-12=0/1720,
6-15=-61/512, 6-16=-61/513, 5-15=-496/164, 7-16=-497/164, 3-14=-52/290,
9-12=-52/288

JOINT STRESS INDEX

2 = 0.74, 3 = 0.38, 4 = 0.70, 5 = 0.38, 6 = 0.39, 7 = 0.38, 8 = 0.70, 9 = 0.38, 10 = 0.74, 12 = 0.68, 13 = 0.76, 14 = 0.68, 15 = 0.54 and 16 = 0.54

NOTES- (15)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 90mph; TCCL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- ** TCCL: ASCE 7-05; Pr=30.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15; Pg=40.0 psf (ground snow); Ps= varies (min. roof snow=7.0 psf Lumber DOL=1.15 Plate DOL=1.15) see load cases; Category II; Exp B; Fully Exp.; Ct=1.1
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 27.7 psf on overhangs non-concurrent with other live loads.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 4-15, 15-16, 8-16; Wall dead load (5.0psf) on member(s). 4-14, 8-12
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-14
- *Semi-rigid pitchbreaks including heels* Member end fixity model was used in the analysis and design of this truss.
- NOTE: DUE TO THE OVERALL LENGTH TO DEPTH RATIO OF THE ROOM, THE FLOOR MAY EXHIBIT OBJECTIONABLE VIBRATION AND OR BOUNCE. BUILDING DESIGNER TO CONSIDER PROVIDING MEANS TO DAMPEN THESE EFFECTS.

TRUSS DESIGN SHALL BE REVIEWED AND APPROVED PRIOR TO MANUFACTURING.
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