

Job J0423-1870	Truss F1	Truss Type Floor	Qty 26	Ply 1	Blackwell Pole Barn
Comtech, Inc., Fayetteville, NC 28309, David Landry					Job Reference (optional)

8.430 s May 12 2021 MiTek Industries, Inc. Fri Apr 21 09:31:55 2023 Page 1
 ID:QIPTOEKJ7EVp_7FWxEI97RzajZS-cl1oAqF6n30tkmjQDR32yNdYTF3MbsEe5ylEOTzOYUo

0-1-8

1-3-0

1-7-8

1-7-8

0-1-8

Scale = 1:68.6

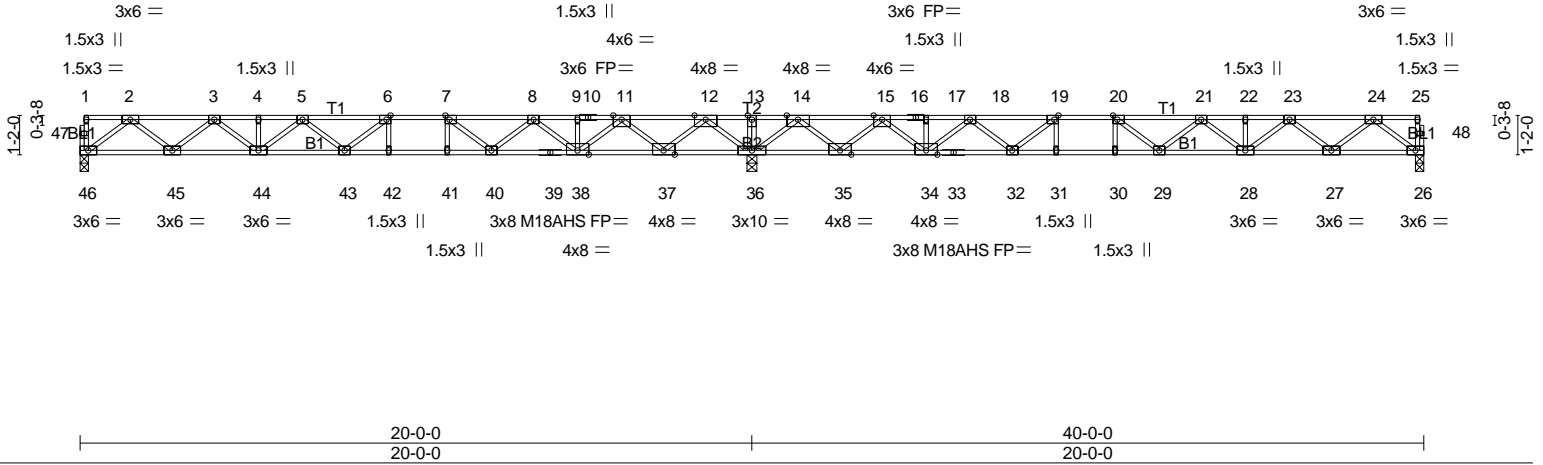


Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.96	Vert(LL)	-0.33 29-30	>720	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.79	Vert(CT)	-0.43 29-30	>556	360	M18AHS	186/179
BCLL 0.0	Rep Stress Incr	YES	WB 0.78	Horz(CT)	0.06 26	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 202 lb	FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SP No.1(flat)
 BOT CHORD 2x4 SP 2400F 2.0E(flat)
 WEBS 2x4 SP No.3(flat)

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 46=844/0-3-0 (min. 0-1-8), 36=2672/0-3-8 (min. 0-1-8), 26=844/0-3-0 (min. 0-1-8)
 Max Grav 46=932(LC 3), 36=2672(LC 1), 26=932(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1965/0, 3-4=-3230/0, 4-5=-3230/0, 5-6=-3759/0, 6-7=-3720/55, 7-8=-3112/449,
 8-9=-1842/1066, 9-10=-1842/1066, 10-11=-1842/1066, 11-12=0/1919, 12-13=0/4575,
 13-14=0/4575, 14-15=0/1919, 15-16=-1842/1066, 16-17=-1842/1066, 17-18=-1842/1066,
 18-19=-3112/449, 19-20=-3720/55, 20-21=-3759/0, 21-22=-3230/0, 22-23=-3230/0,
 23-24=-1965/0
 BOT CHORD 45-46=0/1169, 44-45=0/2724, 43-44=0/3670, 42-43=-55/3720, 41-42=-55/3720,
 40-41=-55/3720, 39-40=-747/2612, 38-39=-747/2612, 37-38=-1470/933, 36-37=-2923/0,
 35-36=-2923/0, 34-35=-1470/933, 33-34=-747/2612, 32-33=-747/2612, 31-32=-55/3720,
 30-31=-55/3720, 29-30=-55/3720, 28-29=0/3670, 27-28=0/2724, 26-27=0/1169
 WEBS 2-46=-1464/0, 2-45=0/1036, 3-45=-989/0, 3-44=0/645, 5-44=-563/12, 12-36=-2074/0,
 12-37=0/1640, 11-37=-1621/0, 11-38=0/1308, 8-38=-1102/0, 8-40=0/852, 7-40=-1177/0,
 6-43=-85/604, 6-42=-415/0, 7-41=0/441, 24-26=-1464/0, 24-27=0/1036, 23-27=-989/0,
 23-28=0/645, 21-28=-563/12, 20-29=-85/604, 14-36=-2074/0, 14-35=0/1640, 15-35=-1621/0,
 15-34=0/1308, 18-34=-1102/0, 18-32=0/852, 19-32=-1177/0, 19-31=0/441, 20-30=-415/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x4 MT20 unless otherwise indicated.
 - 4) Plates checked for a plus or minus 1 degree rotation about its center.
 - 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard