Job	Truss	Truss Type	Qty	Ply	Brice
E511068	M1	ROOF TRUSS	29	1	Job Reference (optional)

Component Builders, Inc., Mooreville, MS 38857

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ID:MVRCLD0SVpCKsslhLCp?M7yG0dx-tbUbSd9WUMBcPPoCTeV9PJXME2GIpXIbdBCdqoz_UID

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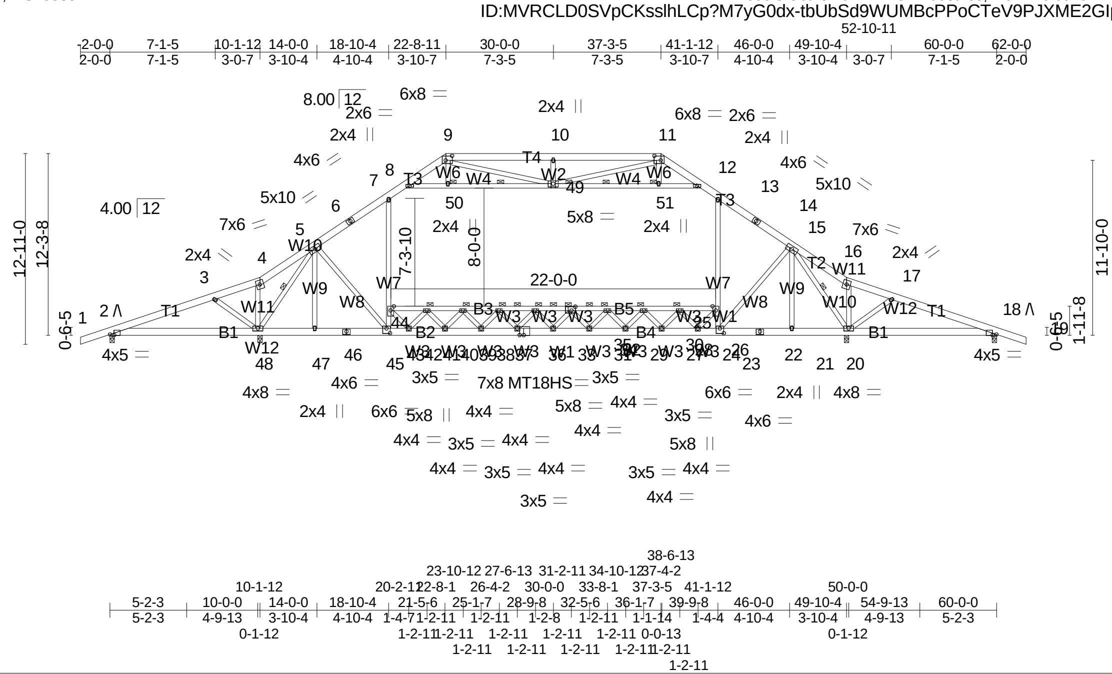

Plate Offsets (X,Y)-- [2:0-3-4,Edge], [9:0-5-4,0-3-8], [11:0-5-4,0-3-8], [18:0-3-4,Edge], [23:0-3-0,0-4-0], [34:0-3-4,0-3-0], [36:0-3-3,Edge], [45:0-3-0,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.22	2	>542	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(TL)	-0.75	32-35	>638	240	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.94	Horz(TL)	0.12	20	n/a	n/a		
BCDL	10.0	Code IBC2012/TPI2007		(Matrix)		Attic	-0.25	25-44	1054	360	Weight: 545 lb	FT = 0%

LUMBER-

TOP CHORD 2x6 SP 2400F 2.0E *Except*
T1,T4: 2x6 SP No.2

BOT CHORD 2x6 SP 2400F 2.0E *Except*
B5,B3: 2x4 SP No.2

WEBS 2x4 SP No.3 *Except*
W7,W4: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-5 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 2-48,18-20.
2-3-0 oc bracing: 32-35
2-4-0 oc bracing: 35-38, 30-32
2-9-0 oc bracing: 38-40, 28-30
3-7-0 oc bracing: 40-42, 26-28
6-0-0 oc bracing: 42-44, 25-26

WEBS 1 Row at midpt 15-20, 5-48, 49-51, 49-50
with 2x6 SP No.2 with 3 - 10d (0.131"x3") nails and cross brace spacing of 12-0-0 oc.

JOINTS 1 Brace at Jt(s): 49, 50, 51, 42, 40, 38, 35, 32, 30, 28, 26

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

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 48=197(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) except 20=-214(LC 11), 48=-219(LC 10)
Max Grav All reactions 250 lb or less at joint(s) except 2=442(LC 1), 20=3207(LC 26), 48=3207(LC 25), 18=442(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-889/655, 3-4=-942/804, 4-5=-1040/943, 5-6=-2918/0, 6-7=-2811/0, 7-8=-2419/19, 8-9=-1140/380, 11-12=-1140/381, 12-13=-2419/19, 13-14=-2811/0, 14-15=-2918/0, 15-16=-1033/923, 16-17=-935/786, 17-18=-882/637, 9-10=-1835/717, 10-11=-1835/717

BOT CHORD 2-48=-526/871, 47-48=0/1425, 46-47=0/1425, 45-46=0/1425, 43-45=0/2151, 41-43=0/3643, 39-41=0/5047, 37-39=0/6077, 36-37=0/6589, 33-36=0/6589, 31-33=0/6587, 29-31=0/6072, 27-29=0/5038, 24-27=0/3633, 23-24=0/2151, 22-23=0/1425, 21-22=0/1425, 20-21=0/1425, 18-20=-510/864, 42-44=-637/21, 40-42=-2511/0, 38-40=-3781/0, 35-38=-4555/0, 34-35=-4809/0, 32-34=-4809/0, 30-32=-4552/0, 28-30=-3774/0, 26-28=-2500/0, 25-26=-625/32

WEBS 10-49=-457/213, 23-25=-253/519, 13-25=0/919, 15-23=-171/1229, 15-21=-267/63, 15-20=-3474/434, 17-20=-398/222, 44-45=-255/510, 7-44=0/919, 5-45=-171/1228, 5-47=-266/62, 5-48=-3474/434, 3-48=-398/222, 49-51=-1610/0, 12-51=-1619/0, 8-50=-1619/0, 49-50=-1610/0, 9-49=-466/1042, 11-49=-465/1042, 43-44=0/1073, 42-43=-1751/0, 41-42=0/1314, 40-41=-1213/0, 39-40=0/864, 38-39=-821/0, 37-38=0/445, 35-37=-392/0, 31-32=-394/0, 30-31=0/448, 29-30=-823/0, 28-29=0/867, 27-28=-1216/0, 26-27=0/1316, 24-26=-1751/0, 24-25=0/1061

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NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) automatic zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by WTCA and TPI. For project specific guidance, consult with project engineer/architect/general contractor. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) Ceiling dead load (5.0 psf) on member(s). 7-8, 12-13, 49-51, 12-51, 8-50, 49-50
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 42-44, 40-42, 38-40, 35-38, 32-35, 30-32, 28-30, 26-28, 25-26
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 214 lb uplift at joint 20 and 219 lb uplift at joint 48.
10) "/\" indicates Released bearing: allow for upward movement at joint(s) 2, 18.
11) This truss is designed in accordance with the 2012 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
13) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard