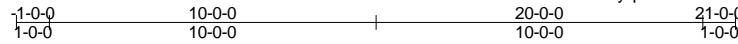


Job 662341	Truss 002	Truss Type GESI	Qty 2	Ply 1	Job Reference (optional)
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Boise Structural Solutions, Biddeford, ME 04005

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ID:0o4hztUSKWisBKBXNWHiW0yqcV8-JAeJOP6M8M58xK3ITHWX9AGY?CoID8lbYu2u5DyflsF



4x4 =

Scale = 1:70.5

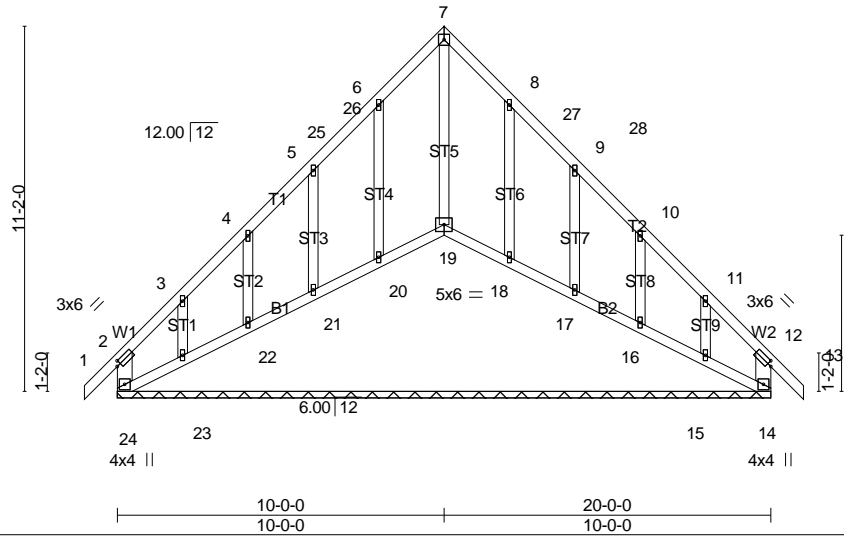


Plate Offsets (X,Y)-- [2:0-1-8,0-1-8], [12:0-1-8,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	Plates Increase 1.15	TC 0.24	Vert(LL) -0.01	13	n/r	180	MT20	169/123
TCDL 10.0	Lumber Increase 1.15	BC 0.35	Vert(TL) -0.02	13	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.63	Horz(TL) 0.02	14	n/a	n/a		
BCDL 10.0	Code IBC2009/TPI2007	(Matrix)					Weight: 94 lb	FT = 0%

**LUMBER-**

TOP CHORD 2x4 SPF 1650F 1.5E  
 BOT CHORD 2x4 SPF-S No.2  
 WEBS 2x4 SPF-S No.2 \*Except\*  
 W1,W2: 2x6 SPF 1650F 1.5E  
 OTHERS 2x4 SPF-S No.2

**BRACING-**

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

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

**REACTIONS.**

All bearings 20-0-0.  
 (lb) - Max Horz 24=596(LC 7)  
 Max Uplift All uplift 100 lb or less at joint(s) except 24=-700(LC 6), 14=-300(LC 7), 20=-158(LC 7), 21=-250(LC 8), 22=-232(LC 8), 23=-529(LC 7), 18=-149(LC 6), 17=-250(LC 9), 16=-238(LC 9), 15=-454(LC 6)  
 Max Grav All reactions 250 lb or less at joint(s) except 24=658(LC 7), 19=1100(LC 9), 14=283(LC 3), 20=390(LC 2), 21=284(LC 2), 22=276(LC 1), 23=365(LC 6), 18=390(LC 3), 17=284(LC 3), 16=276(LC 1), 15=289(LC 7)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-564/511, 3-4=-293/388, 4-5=-168/390, 5-25=-87/526, 25-26=-3/532, 6-26=-3/539, 6-7=-122/697, 7-8=-122/697, 8-27=-3/543, 27-28=-3/536, 9-28=-87/529, 9-10=-73/338, 10-11=-187/283, 11-12=-430/378, 2-24=-400/425, 12-14=-290/314  
 BOT CHORD 23-24=-280/431, 22-23=-196/366, 21-22=-216/381, 20-21=-209/378, 19-20=-211/378, 18-19=-211/377, 17-18=-212/379, 16-17=-208/375, 15-16=-220/391, 14-15=-171/322  
 WEBS 7-19=-807/0, 6-20=-350/213, 5-21=-245/267, 4-22=-233/281, 3-23=-197/366, 8-18=-350/213, 9-17=-245/268, 10-16=-233/284, 11-15=-191/351

**NOTES-** (15)

- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 7-0-0, Exterior(2) 7-0-0 to 10-0-0, Interior(1) 13-0-0 to 18-0-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 46.2 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 1.5x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 9) Gable studs spaced at 2'-0" oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
662341	002	GESI	2	1	

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**NOTES-** (15)

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 700 lb uplift at joint 24, 300 lb uplift at joint 14, 158 lb uplift at joint 20, 250 lb uplift at joint 21, 232 lb uplift at joint 22, 529 lb uplift at joint 23, 149 lb uplift at joint 18, 250 lb uplift at joint 17, 238 lb uplift at joint 16 and 454 lb uplift at joint 15.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 19, 20, 21, 22, 23, 18, 17, 16, 15.
- 14) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 15) Drawing prepared exclusively for manufacturing by Boise Structural Solutions

**LOAD CASE(S)** Standard