

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 20052076 NOF-16

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by The Building Center.

Pages or sheets covered by this seal: I41363266 thru I41363283

My license renewal date for the state of North Carolina is December 31, 2020.

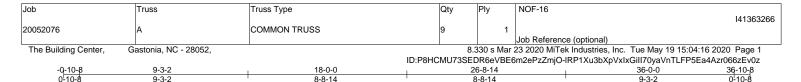
North Carolina COA: C-0844



May 20,2020

Sevier, Scott

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



Scale: 3/16"=1'

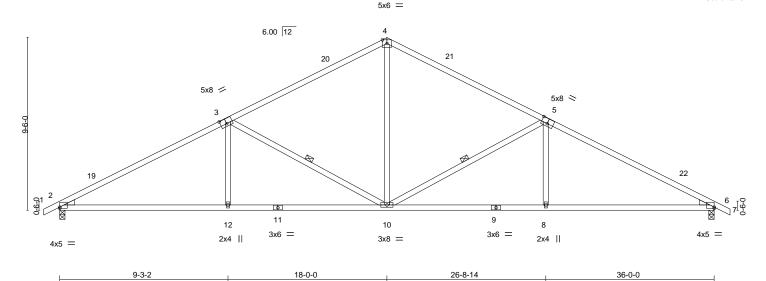


Plate Off	sets (X,Y)	[2:0-0-0,0-0-13], [3:0-4-0,0	0-3-4], [5:0-4-0),0-3-4], [6:E	dge,0-0-13]							
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.14	8-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.33	8-18	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.11	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	I2014	Matri	x-AS						Weight: 174 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

5-10, 3-10

Rigid ceiling directly applied

1 Row at midpt

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.3

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 6=0-3-8

Max Horz 2=129(LC 10)

Max Uplift 2=-146(LC 10), 6=-146(LC 11) Max Grav 2=1493(LC 1), 6=1493(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2543/252, 3-4=-1748/252, 4-5=-1748/252, 5-6=-2543/252 **BOT CHORD** 2-12=-237/2175, 10-12=-234/2180, 8-10=-116/2180, 6-8=-118/2175 WEBS 4-10=-36/956, 5-10=-859/229, 5-8=0/363, 3-10=-859/229, 3-12=0/363

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 15-0-0, Exterior(2) 15-0-0 to 21-0-0, Interior(1) 21-0-0 to 33-10-8, Exterior(2) 33-10-8 to 36-10-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 146 lb uplift at joint 2 and 146 lb uplift at
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

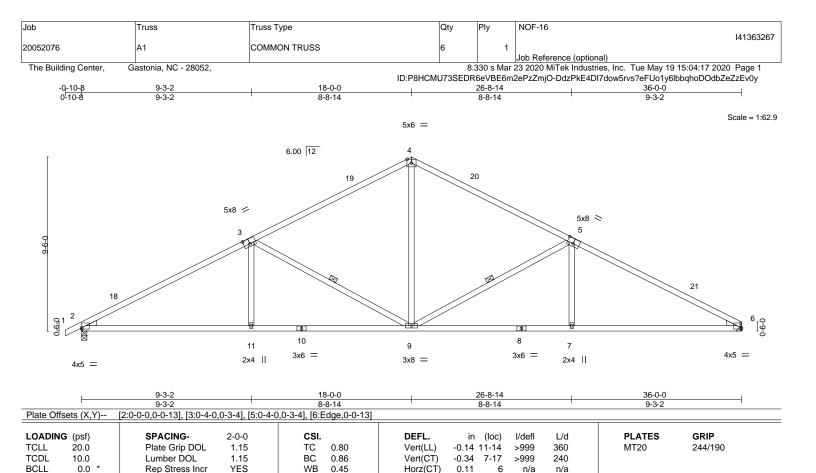


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and permanent. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

BCDL

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** WEBS 2x4 SP No.3

10.0

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 6=Mechanical

Max Horz 2=135(LC 10)

Max Uplift 2=-147(LC 10), 6=-131(LC 11) Max Grav 2=1493(LC 1), 6=1439(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2545/255, 3-4=-1749/255, 4-5=-1749/255, 5-6=-2548/261 **BOT CHORD** 2-11=-243/2176, 9-11=-240/2181, 7-9=-146/2185, 6-7=-148/2180 4-9=-40/958, 5-9=-863/231, 5-7=0/364, 3-9=-859/229, 3-11=0/363 WEBS

Code IRC2015/TPI2014

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 15-0-0, Exterior(2) 15-0-0 to 21-0-0, Interior(1) 21-0-0 to 33-0-0, Exterior(2) 33-0-0 to 36-0-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

Matrix-AS

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint 2 and 131 lb uplift at
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



FT = 20%

Weight: 172 lb

Structural wood sheathing directly applied.

5-9, 3-9

Rigid ceiling directly applied

1 Row at midpt



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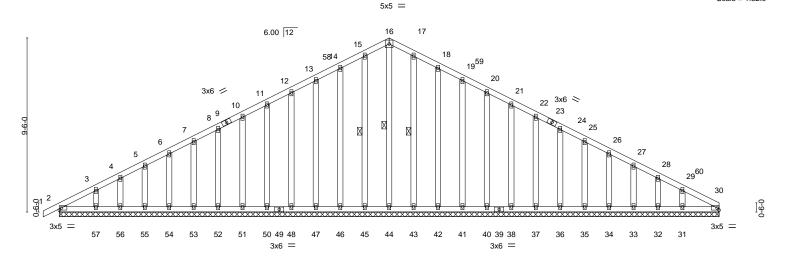
Job	Truss	Truss Type	Qty	Ply	NOF-16
20052076	A1GE	GABLE	1	1	141363268
			·		Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 15:04:19 2020 Page 1

ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-A0599w6UqktW9P_HzQqjZD7TkZTxlhqWsx4qjRzEv0w

-0-10-8 0-10-8 18-0-0 18-0-0

Scale = 1:62.9



36-0-0 36-0-0								
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.09 BC 0.04 WB 0.10 Matrix-S	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 1 n/r 120 Vert(CT) 0.00 1 n/r 90 Horz(CT) 0.01 30 n/a n/a	PLATES GRIP MT20 244/190 Weight: 293 lb FT = 20%				

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 **OTHERS** 2x4 SP No.3 BRACING-

TOP CHORD BOT CHORD WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing

1 Row at midpt 16-44, 15-45, 17-43

REACTIONS. All bearings 36-0-0.

(lb) - Max Horz 2=132(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 2, 45, 46, 47, 48, 50, 51, 52, 53, 54, 55, 56, 57, 43, 42, 41,

40, 38, 37, 36, 35, 34, 33, 32, 31

Max Grav All reactions 250 lb or less at joint(s) 2, 30, 44, 45, 46, 47, 48, 50, 51, 52, 53, 54, 55, 56, 57, 43, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 31

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

TOP CHORD 15-16=-85/259, 16-17=-85/259

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-0-0, Exterior(2) 2-0-0 to 15-0-0, Corner(3) 15-0-0 to 21-0-0, Exterior(2) 21-0-0 to 33-0-0, Corner(3) 33-0-0 to 36-0-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) 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.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 45, 46, 47, 48, 50, 51, 52, 53, 54, 55, 56, 57, 43, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 31.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Qua
Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

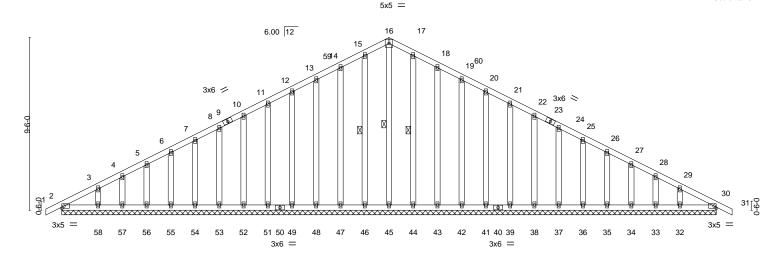


Job Truss Truss Type Qty NOF-16 141363269 20052076 AGE GABLE

The Building Center, Gastonia, NC - 28052, Job Reference (optional) 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 15:04:22 2020 Page 1

ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-abmlox8M6fF50sjsfYEQBrl__mVnV2ZyYvIKJmzEv0t -0-10-8 0-10-8 18-0-0 18-0-0 0-10-8

Scale: 3/16"=1'



<u> </u>				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.09 BC 0.03 WB 0.10 Matrix-S	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 30 n/r 120 Vert(CT) -0.00 30 n/r 90 Horz(CT) 0.01 30 n/a n/a	PLATES GRIP MT20 244/190 Weight: 295 lb FT = 20%

LUMBER-

OTHERS

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2

2x4 SP No.3

BRACING-

TOP CHORD BOT CHORD WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing

1 Row at midpt 16-45, 15-46, 17-44

REACTIONS. All bearings 36-0-0.

(lb) - Max Horz 2=129(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 2, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 44, 43, 42,

41, 39, 38, 37, 36, 35, 34, 33, 32

Max Grav All reactions 250 lb or less at joint(s) 2, 30, 45, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 44, 43, 42, 41, 39, 38, 37, 36, 35, 34, 33, 32

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

TOP CHORD 15-16=-84/261, 16-17=-84/261

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-0-0, Exterior(2) 2-0-0 to 15-0-0, Corner(3) 15-0-0 to 21-0-0, Exterior(2) 21-0-0 to 33-10-8, Corner(3) 33-10-8 to 36-10-8 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) 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.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 44, 43, 42, 41, 39, 38, 37, 36, 35, 34, 33, 32.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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Job Truss Truss Type Qty NOF-16 141363270 Ь 20052076 COMMON TRUSS Job Reference (optional) 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 15:04:23 2020 Page 1 The Building Center, Gastonia, NC - 28052, ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-2nKg?H9_tyOye0I2CGlfk3H66AnuEVq5nZ2tsCzEv0s 0-10-8 0-10-8 12-0-0 6-0-0 6-0-0 0-10-8 Scale = 1:37.1 4x4 = 3 10.00 12 12 \bigotimes 7 2x4 || 3x8 3x8 || 6-0-0 12-0-0

			1	6-0-0				6-0-0				
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	0.32	Vert(LL)	-0.02	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.04	7-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	12014	Matri	x-AS						Weight: 54 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD WEBS**

2x4 SP No.2 *Except* 3-7: 2x4 SP No.3

REACTIONS. (size) 8=0-3-8, 6=0-3-8

Max Horz 8=-116(LC 8)

Max Uplift 8=-48(LC 10), 6=-48(LC 11) Max Grav 8=530(LC 1), 6=530(LC 1)

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

TOP CHORD 2-3=-479/90, 3-4=-479/90, 2-8=-476/139, 4-6=-476/139

BOT CHORD 7-8=0/291, 6-7=0/291

WFBS 3-7=0/251

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-0-0, Exterior(2) 3-0-0 to 9-0-0, Interior(1) 9-0-0 to 9-10-8, Exterior(2) 9-10-8 to 12-10-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.



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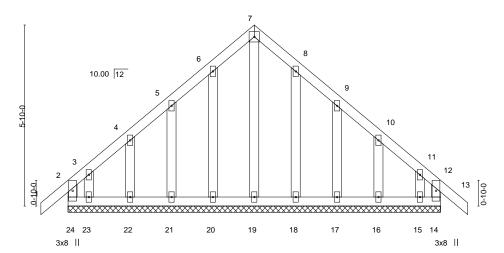


Job Truss Truss Type Qty NOF-16 141363271 20052076 DGE GABLE Job Reference (optional) 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 15:04:24 2020 Page 1 The Building Center, Gastonia, NC - 28052, ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-Wzu2CdAceGWpFAtFmzGuGGqKhaBszySF0DnROfzEv0r

6-0-0 6-0-0 12-10-8 0-10-8 0-10-8 0-10-8 12-0-0 6-0-0

4x4 =

Scale = 1:37.1



LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl Plate Grip DOL Vert(LL) -0.00 120 244/190 **TCLL** 20.0 1.15 TC 0.07 13 n/r MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.06 Vert(CT) -0.00 90 13 n/r **BCLL** 0.0 Rep Stress Incr YES WB 0.07 Horz(CT) 0.00 14 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-R Weight: 84 lb FT = 20%

12-0-0

LUMBER-BRACING-

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, 2x4 SP No.2 BOT CHORD except end verticals. 2x4 SP No.2 **WEBS BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 12-0-0.

2x4 SP No.3

(lb) -Max Horz 24=-116(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 24, 14, 20, 21, 22, 18, 16, 17 except 23=-121(LC 10), 15=-107(LC

Max Grav All reactions 250 lb or less at joint(s) 24, 14, 19, 20, 21, 22, 23, 18, 16, 15, 17

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

NOTES-

OTHERS

- 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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-0-0, Exterior(2) 2-0-0 to 3-0-0, Corner(3) 3-0-0 to 9-0-0, Exterior(2) 9-0-0 to 9-10-8, Corner(3) 9-10-8 to 12-10-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) 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.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 14, 20, 21, 22, 18, 16, 17 except (jt=lb) 23=121, 15=107.





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty NOF-16 141363272 20052076 DGR COMMON GIRDER | **Z** | Job Reference (optional) 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 15:04:25 2020 Page 1

The Building Center, Gastonia, NC - 28052,

ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-_ASQQzAEPaegtKSRKhn7pUNKqzMpiHzOEtX_w5zEv0q 12-10-8 0-10-8 12-0-0 8-11-15 3-0-1 2-11-15 2-11-15 3-0-1

> Scale = 1:34.9 4x5 ||

> > Structural wood sheathing directly applied or 4-9-13 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

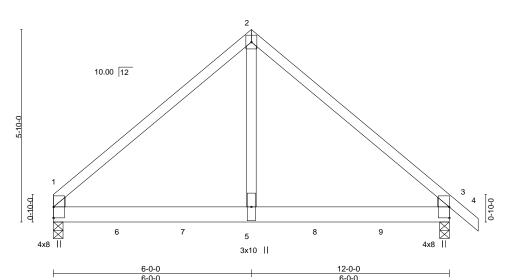


Plate Offsets (X,Y)--[1:0-0-1,0-2-14], [1:0-0-0,0-0-1], [3:0-0-0,0-0-1], [3:0-0-1,0-2-14]

LOADING (psf) SPACING-DEFL. (loc) I/defl L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.82 Vert(LL) -0.07 1-5 >999 360 MT20 244/190 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.65 Vert(CT) -0.141-5 >994 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.63 Horz(CT) 0.01 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-SH Weight: 124 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 2x6 SP DSS BOT CHORD WEBS 2x4 SP No.2

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (size) 3=0-3-8, 1=0-3-8

Max Horz 1=-114(LC 6)

Max Uplift 3=-406(LC 9), 1=-381(LC 8) Max Grav 3=4111(LC 1), 1=3984(LC 1)

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

TOP CHORD 1-2=-4165/447, 2-3=-4165/449 **BOT CHORD** 1-5=-263/3005, 3-5=-263/3005

WEBS 2-5=-475/5136

NOTES-

1) 2-ply truss to be connected together with 10d (0.148"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1419 lb down and 151 lb up at 2-0-12, 1419 lb down and 151 lb up at 4-0-12, 1419 lb down and 151 lb up at 6-0-12, and 1419 lb down and 151 lb up at 8-0-12, and 1419 lb down and 151 lb up at 10-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

May 20,2020

Continued on page 2

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Qty Job Truss Truss Type Ply NOF-16 141363272 DGR COMMON GIRDER 20052076

The Building Center,

Gastonia, NC - 28052,

| **Z** | Job Reference (optional) 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 15:04:25 2020 Page 2 ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-_ASQQzAEPaegtKSRKhn7pUNKqzMpiHzOEtX_w5zEv0q

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-60, 2-4=-60, 1-3=-20

Concentrated Loads (lb)

Vert: 5=-1419(B) 6=-1419(B) 7=-1419(B) 8=-1419(B) 9=-1419(B)



Job Truss Truss Type Qty Ply NOF-16 141363273 20052076 COMMON Job Reference (optional) 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 15:04:26 2020 Page 1 The Building Center, Gastonia, NC - 28052, ID:TsqnpJI2vY?k2lav2Qm7Wlych41-SM0pdJBtAtmXVU1duOIMMhvcLNf4RqFYTXGYSXzEv0p

5-1-9

5-1-9

Scale = 1:38.3

21-10-8 0-10-8

21-0-0

Structural wood sheathing directly applied or 4-7-5 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

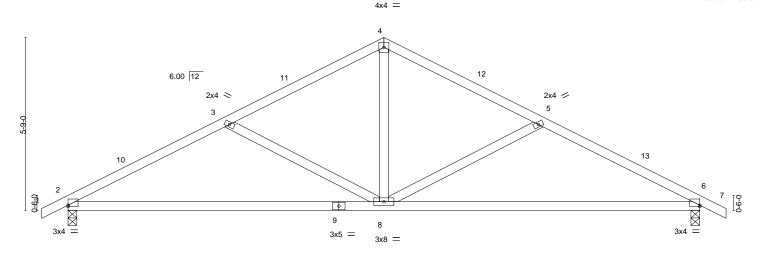


Plate Offsets (X,Y)	[2:0-0-0,0-0-9], [6:Edge,0-0-9]			
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.38 BC 0.84 WB 0.24 Matrix-S	DEFL. in (loc) l/defl L/d Vert(LL) -0.24 2-8 >999 360 Vert(CT) -0.49 2-8 >503 240 Horz(CT) 0.04 6 n/a n/a	PLATES GRIP MT20 244/190 Weight: 94 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

WEBS

-0-10-8 0-10-8

5-4-7 5-4-7

2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP No.2 *Except*

6-9: 2x4 SP No.1 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 6=0-3-8

Max Horz 2=-78(LC 15)

Max Uplift 2=-93(LC 10), 6=-93(LC 11) Max Grav 2=890(LC 1), 6=890(LC 1)

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

2-3=-1341/198, 3-4=-1018/147, 4-5=-1018/147, 5-6=-1340/199 TOP CHORD

BOT CHORD 2-8=-154/1138, 6-8=-106/1137

WEBS 4-8=-5/598, 5-8=-355/179, 3-8=-357/179

- 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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-6-0, Exterior(2) 7-6-0 to 13-6-0, Interior(1) 13-6-0 to 18-10-8, Exterior(2) 18-10-8 to 21-10-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and permanent. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	NOF-16	
					I41	363274
20052076	FGE	GABLE	1	1		
					Job Reference (optional)	
The Building Center, G	astonia, NC - 28052,		8.3	330 s Mar	23 2020 MiTek Industries, Inc. Tue May 19 15:04:27 2020 Pa	ge 1

ID:TsqnpJI2vY?k2lav2Qm7Wlych41-xYZBrfCVxBuN6dcqR6pbuvSs8nCnAKYhiB05?zzEv0o -0-10-8 0-10-8 21-10-8 0-10-8 21-0-0 10-6-0 10-6-0

Scale = 1:38.6

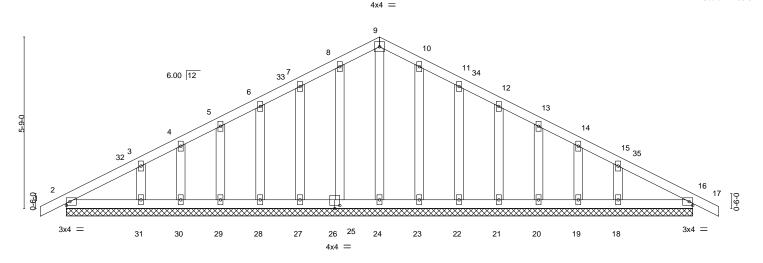


Plate Offsets (X,Y)--[25:0-1-12,0-0-0], [26:0-2-0,0-1-4], [26:0-0-0,0-1-12] LOADING (psf) SPACING-DEFL. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) 0.00 120 MT20 244/190 16 n/r **TCDL** 10.0 Lumber DOL 1.15 ВС 0.04 Vert(CT) 0.00 16 n/r 90 **BCLL** 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 16 n/a n/a Code IRC2015/TPI2014 BCDL Matrix-S Weight: 128 lb FT = 20%10.0

21-0-0

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD OTHERS** 2x4 SP No.3 **BRACING-**

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 21-0-0.

(lb) -Max Horz 2=78(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 25, 27, 28, 29, 30, 31, 23, 22, 21, 20, 19, 18, 16 Max Grav All reactions 250 lb or less at joint(s) 2, 24, 25, 27, 28, 29, 30, 31, 23, 22, 21, 20, 19, 18, 16

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

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 7-6-0, Corner(3) 7-6-0 to 13-6-0, Exterior(2) 13-6-0 to 18-10-8, Corner(3) 18-10-8 to 21-10-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) 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.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 25, 27, 28, 29, 30, 31, 23, 22, 21, 20, 19, 18, 16.





Job Truss Truss Type Qty NOF-16 141363275 20052076 н MONOPITCH Job Reference (optional) 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 15:04:28 2020 Page 1 The Building Center, Gastonia, NC - 28052, ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-PI7Z2?D7iV0EknB0?pLqR6??QBXbvmZrwrleXQzEv0n 2-10-12 1-0-0 2-10-12 Scale = 1:12.6 3 2x4 II 6.00 12 0-9-0 2x4 || 2x4 = 2-10-12 2-10-12 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES GRIP** (loc) Plate Grip DOL 1.15 Vert(LL) -0.00 >999 244/190 **TCLL** 20.0 TC 0.09 360 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.07 Vert(CT) -0.01 4-7 >999 240

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

2

n/a

except end verticals

2-0-0 oc bracing

n/a

Weight: 13 lb

Structural wood sheathing directly applied or 2-10-12 oc purlins,

FT = 20%

LUMBER-

BCLL

BCDL

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD

0.0

10.0

2x4 SP No.3 **WEBS**

REACTIONS.

2=0-3-8, 4=0-1-8 (size) Max Horz 2=57(LC 10) Max Uplift 2=-23(LC 10), 4=-26(LC 10) Max Grav 2=181(LC 1), 4=99(LC 1)

Rep Stress Incr

Code IRC2015/TPI2014

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

NOTES-

1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

WB

Matrix-MP

0.00

2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSITP1 Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Qua
Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty NOF-16 141363276 20052076 HGE GABLE Job Reference (optional) 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 15:04:29 2020 Page 1 The Building Center, Gastonia, NC - 28052, ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-txhxGLDITo85MxlCZWs3zKXA9btqeDo_9VVC3szEv0m 2-10-12 2-10-12 1-0-0 Scale = 1:12.6 3 2x4 II 2x4 || 6.00 12 0-9-0 2x4 || 2x4 || 2x4 =

2-10-12													
LOADIN TCLL TCDL BCLL	20.0 10.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.09 0.07 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.01 0.00	(loc) 4-9 4-9 2	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 244/190	
BCDL	10.0	Code IRC2015/T	PI2014	Matr	ix-MP	\ \ \ \ \					Weight: 14 lb	FT = 2	20%

2-10-12

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2

BOT CHORD 2x4 SP No.3 **WEBS OTHERS** 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 4=0-1-8 Max Horz 2=57(LC 10)

Max Uplift 2=-23(LC 10), 4=-26(LC 10) Max Grav 2=181(LC 1), 4=99(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 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) Gable studs spaced at 1-4-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



Structural wood sheathing directly applied or 2-10-12 oc purlins,

except end verticals

2-0-0 oc bracing.

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Sefety Information, available from Truss Plate pictities 218 N. Les Street, Suite 312, Alexanderia, VA 22314. fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Qua
Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty NOF-16 141363277 R1 20052076 MONOPITCH TRUSS

The Building Center, Gastonia, NC - 28052,

Job Reference (optional) 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 15:04:30 2020 Page 1 ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-L7FJTgENE6Gyz5KO7ENIWX4JE_CqNg27O9ElclzEv0l

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

-0-10-8 4-0-0 0-10-8 4-0-0

Scale = 1:15.4

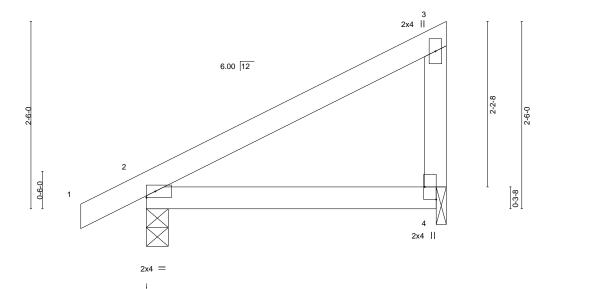


Plate Off	Plate Offsets (X,Y) [4:Edge,0-1-14]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.01	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.02	4-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI	2014	Matri	x-AS						Weight: 17 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 4=0-1-10 Max Horz 2=73(LC 10)

Max Uplift 2=-21(LC 10), 4=-39(LC 10) Max Grav 2=213(LC 1), 4=148(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

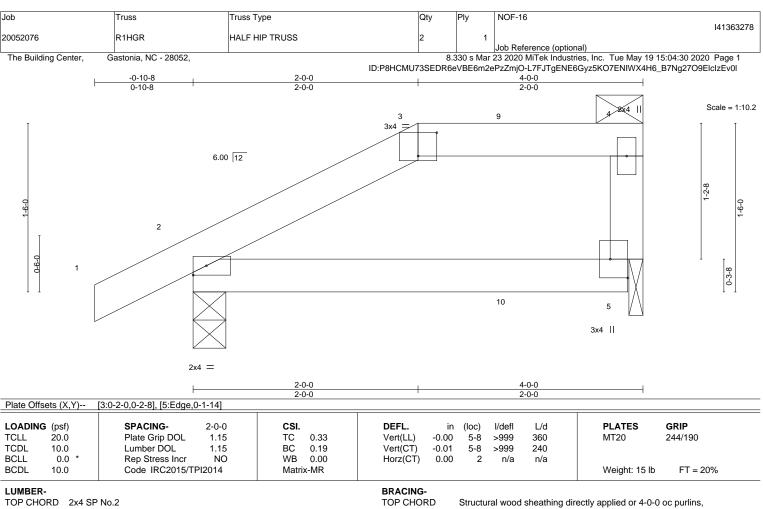


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and permanent. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





BOT CHORD

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 5=0-1-8

Max Horz 2=44(LC 8)

Max Uplift 2=-31(LC 8), 5=-31(LC 5) Max Grav 2=242(LC 1), 5=233(LC 1)

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

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 65 lb down and 9 lb up at 2-10-8 on top chord, and 49 lb down and 7 lb up at 2-10-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 5-6=-20

Concentrated Loads (lb)

Vert: 9=-65(F) 10=-49(F)



except end verticals, and 2-0-0 oc purlins: 3-4.

Rigid ceiling directly applied or 10-0-0 oc bracing

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDE MITCH REPRESENCE FACE MITCH SERVING AND INCLUDE MITCH SERVING AND INCLUD fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty NOF-16 141363279 20052076 R2 JACK-OPEN TRUSS Job Reference (optional) 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 15:04:31 2020 Page 1 The Building Center, Gastonia, NC - 28052, ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-pKpig0F??QOpbFvbgxuX3ldWpOab67lHdp_J8lzEv0k 2-0-0 0-10-8 Scale = 1:10.4 6.00 12 0-9-2 0-9-0 2x4 = LOADING (psf) SPACING-2-0-0 CSI. DEFL. **PLATES** GRIP (loc) I/defl L/d Plate Grip DOL Vert(LL) -0.00 >999 244/190 TCLL 20.0 1.15 TC 0.08 360 MT20

Vert(CT)

Horz(CT)

-0.00

0.00

>999

n/a

3

240

n/a

Rigid ceiling directly applied or 10-0-0 oc bracing

Structural wood sheathing directly applied or 2-0-0 oc purlins.

Weight: 8 lb

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD

10.0

0.0

10.0

BRACING-TOP CHORD BOT CHORD

ВС

WB

Matrix-MP

0.05

0.00

1.15

NO

REACTIONS. 3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=43(LC 10)

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

Max Uplift 3=-25(LC 10), 2=-28(LC 10)

Max Grav 3=65(LC 1), 2=205(LC 1), 4=49(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-80(F=-20), 4-5=-40(F=-20)

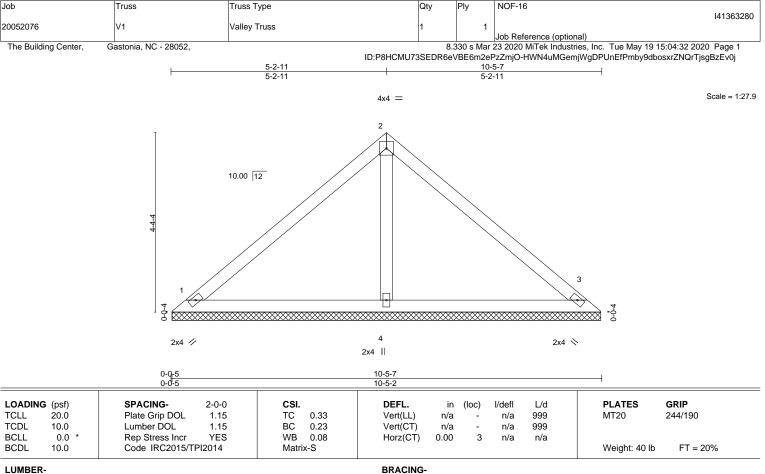


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and permanent. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD 2x4 SP No.3 **OTHERS**

REACTIONS.

1=10-4-13, 3=10-4-13, 4=10-4-13 (size) Max Horz 1=-81(LC 6) Max Uplift 1=-26(LC 11), 3=-36(LC 11), 4=-4(LC 10) Max Grav 1=204(LC 1), 3=204(LC 1), 4=363(LC 1)

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

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing



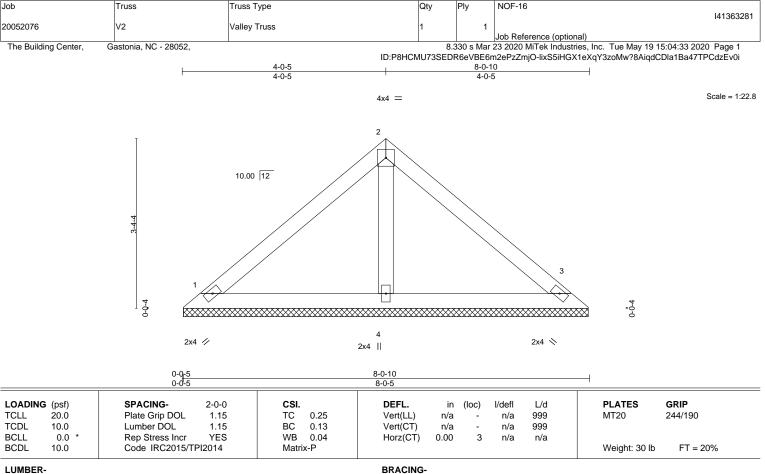
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Edenton, NC 27932



TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD

2x4 SP No.3 **OTHERS**

REACTIONS.

1=8-0-0, 3=8-0-0, 4=8-0-0 (size) Max Horz 1=-61(LC 6) Max Uplift 1=-28(LC 11), 3=-35(LC 11)

Max Grav 1=166(LC 1), 3=166(LC 1), 4=247(LC 1)

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

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing



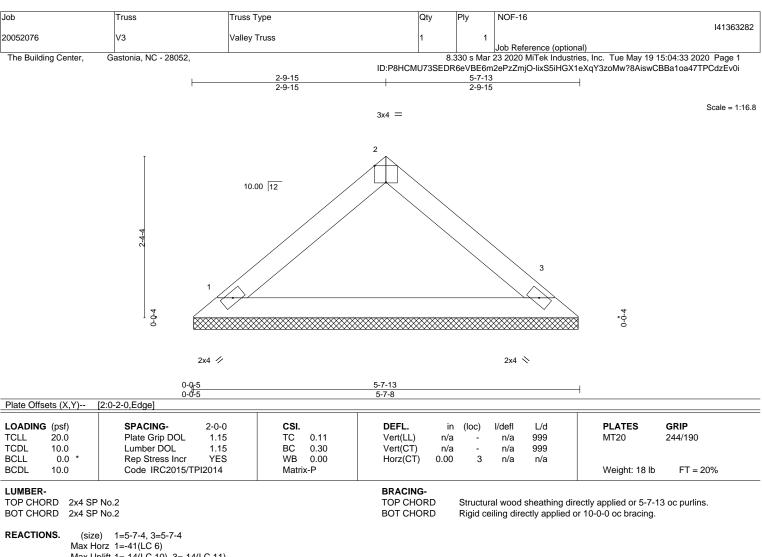
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ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Sefety Information, available from Truss Plate pictities 218 N. Les Street, Suite 312, Alexanderia, VA 22314. fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Qua
Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





Max Uplift 1=-14(LC 10), 3=-14(LC 11) Max Grav 1=194(LC 1), 3=194(LC 1)

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

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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Job Truss Truss Type Qty NOF-16 141363283 20052076 V4 Valley Truss Job Reference (optional) 8.330 s Mar 23 2020 MiTek Industries, Inc. Tue May 19 15:04:34 2020 Page 1 The Building Center, Gastonia, NC - 28052, ID:P8HCMU73SEDR6eVBE6m2ePzZmjO-DuVqJ2HuILmOSieAM4SEgNF2xca_JU2jJnCzl3zEv0h 3-3-0 1-7-8 1-7-8 Scale = 1:9.5 3x4 2 10.00 12 3 0-0-4 0-0-4 2x4 / 2x4 \ 3-3-0 Plate Offsets (X,Y)--[2:0-2-0,Edge] SPACING-DEFL. **PLATES** GRIP LOADING (psf) 2-0-0 in (loc) I/defI L/d Plate Grip DOL **TCLL** 20.0 1.15 TC 0.02 Vert(LL) n/a 999 MT20 244/190 n/a **TCDL** 10.0 Lumber DOL 1.15 ВС 0.07 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 n/a n/a Code IRC2015/TPI2014 FT = 20% BCDL 10.0 Matrix-P Weight: 10 lb **BRACING-**LUMBER-TOP CHORD Structural wood sheathing directly applied or 3-3-0 oc purlins.

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing.

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD

> (size) 1=3-2-7, 3=3-2-7

Max Horz 1=21(LC 9) Max Uplift 1=-7(LC 10), 3=-7(LC 11)

Max Grav 1=98(LC 1), 3=98(LC 1)

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

NOTES-

REACTIONS.

- 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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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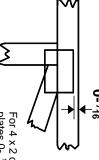


Symbols

PLATE LOCATION AND ORIENTATION



offsets are indicated. Center plate on joint unless x, y and fully embed teeth Apply plates to both sides of truss Dimensions are in ft-in-sixteenths.



plates 0- 1/16" from outside For 4 x 2 orientation, locate edge of truss.

connector plates. required direction of slots in This symbol indicates the

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

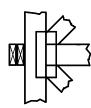
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



by text in the bracing section of the output. Use T or I bracing if indicated. Indicated by symbol shown and/or

BEARING



Min size shown is for crushing only number where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

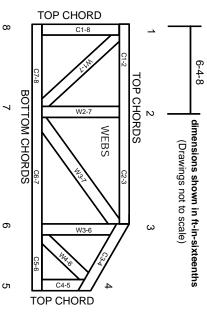
Industry Standards:

National Design Specification for Metal

DSB-89: ANSI/TPI1:

Guide to Good Practice for Handling **Building Component Safety Information** Design Standard for Bracing. Connected Wood Trusses. Installing & Bracing of Metal Plate Plate Connected Wood Truss Construction.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

truss unless otherwise shown. Trusses are designed for wind loads in the plane of the

established by others. section 6.3 These truss designs rely on lumber values Lumber design values are in accordance with ANSI/TPI 1

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For bracing should be considered may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building
- Cut members to bear tightly against each other

Ģ

- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- 7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 10. Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer
- 17. Install and load vertically unless indicated otherwise
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.