

Trenco 818 Soundside Rd Edenton, NC 27932

Re: Master_RT

Voyageur; Master.RT

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource-Apex,NC.

Pages or sheets covered by this seal: I50862741 thru I50862769

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



March 20,2022

Johnson, Andrew

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.

Job Truss Truss Type Qty Voyageur; Master.RT 150862747 MASTER RT B02 COMMON 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Mar 18 10:34:34 2022 Page 1 Builders FirstSource (Apex, NC) Apex, NC - 27523 ID:whs5sxHCVy0zsWPodSMdtHyQpff-q?zexxfliFPRYS8xDnttGHQFII_1gaKpCpVZjAzZjtp 17-1-4 24-0-0 1-0-0 11-6-0 23-0-0 5-10-12 5-7-4 5-7-4 5-10-12 Scale = 1:49.8 4x6 = 4 7.00 12 13 4x6 / 4x6 > 5 3 3x4 || 3x4 || 10 3x10 MT20HS = 3x8 =3x8 =3x8 =

	11-t		 	23-0-0 11-6-0	
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 0.66 BC 0.95 WB 0.80 Matrix-MS	- ()	(loc) /defl L/d 9-11 >866 360 9-11 >428 240 8 n/a n/a 9 >999 240	PLATES GRIP MT20 244/190 MT20HS 187/143 Weight: 131 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

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

8-10: 2x4 SP No.1 WEBS 2x4 SP No.3

REACTIONS. (size) 11=0-3-8, 8=0-3-8

Max Horz 11=-168(LC 10)

Max Grav 11=977(LC 1), 8=977(LC 1)

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

2-11=-384/95, 2-3=-385/71, 3-4=-941/79, 4-5=-941/79, 5-6=-385/72, 6-8=-383/95 TOP CHORD

BOT CHORD 9-11=-13/930, 8-9=-1/928

WEBS 4-9=0/585, 5-9=-272/143, 5-8=-834/49, 3-9=-272/143, 3-11=-834/49

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-11-15 to 2-0-1, Interior(1) 2-0-1 to 11-6-0, Exterior(2) 11-6-0 to 15-8-15, Interior(1) 15-8-15 to 23-11-15 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
- 3) All plates are MT20 plates unless otherwise indicated.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



Structural wood sheathing directly applied or 5-9-2 oc purlins,

Rigid ceiling directly applied or 2-2-0 oc bracing.

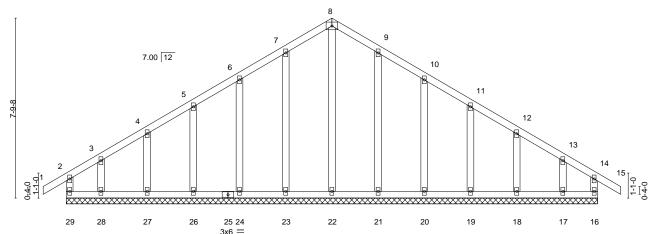
except end verticals.



Job Truss Truss Type Qty Voyageur; Master.RT 150862748 MASTER RT B02G **GABLE** Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Mar 18 10:34:36 2022 Page 1 Builders FirstSource (Apex, NC) Apex, NC - 27523 ID:whs5sxHCVy0zsWPodSMdtHyQpff-mN5PMcg?Esf9nllKLCwLLiVjV5tD8dt6g6_go3zZjtn

24-0-0 1-0-0 23-0-0 11-6-0

Scale = 1:49.9 4x6 =



23-0-0 23-0-0 LOADING (psf) SPACING-CSI. DEFL. L/d **PLATES GRIP** 2-0-0 (loc) I/def 20.0 Plate Grip DOL Vert(LL) -0.00 120 244/190 **TCLL** 1.15 TC 0.14 15 n/r MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.07 Vert(CT) -0.01 15 n/r 120 **BCLL** 0.0 Rep Stress Incr NO WB 0.16 Horz(CT) 0.00 16 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-R Weight: 146 lb FT = 20%

BRACING-LUMBER-

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.2 except end verticals. 2x4 SP No.3 WEBS BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. **OTHERS** 2x4 SP No.3

REACTIONS. All bearings 23-0-0.

Max Horz 29=-168(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 29, 16, 23, 24, 26, 27, 28, 21, 20, 19, 18, 17 Max Grav All reactions 250 lb or less at joint(s) 29, 16, 22, 23, 24, 26, 27, 28, 21, 20, 19, 18, 17

11-6-0

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 Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-11-15 to 2-0-1, Exterior(2) 2-0-1 to 11-6-0, Corner(3) 11-6-0 to 14-6-0, Exterior(2) 14-6-0 to 23-11-15 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
- 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 2-0-0 oc.
- 8) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 16, 23, 24, 26, 27, 28, 21, 20, 19, 18, 17.





Job Truss Truss Type Qty Ply Voyageur; Master.RT 150862749 MASTER RT B02GR COMMON 4 Job Reference (optional)
8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Mar 18 10:34:39 2022 Page 1 Builders FirstSource (Apex, NC), Apex, NC - 27523 ID:whs5sxHCVy0zsWPodSMdtHyQpff-BymX_ejtWn1keD1v0KT2zL75zJq6Ls7YM4CKPOzZjtk 23-0-0 5-10-12 5-7-4 5-7-4 5-10-12 Scale: 1/4"=1 4x6 ||

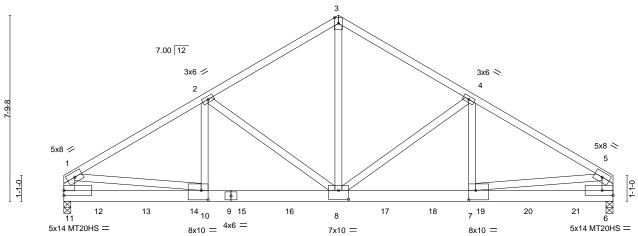


Plate Offsets (X,Y)				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.76	Vert(LL) -0.10 7-8 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0.20 7-8 >999 240	MT20HS 187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.70	Horz(CT) 0.03 6 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.00 10 >999 240	Weight: 614 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

11-6-0

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.2 *Except* 1-11,5-6: 2x6 SP No.2

(size) 11=0-3-8, 6=0-3-8

Max Horz 11=-153(LC 4) Max Grav 11=10747(LC 1), 6=10649(LC 1)

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

TOP CHORD 1-11=-8391/0, 1-2=-13719/0, 2-3=-10146/0, 3-4=-10146/0, 4-5=-13737/0, 5-6=-8406/0

BOT CHORD 10-11=0/2574, 8-10=0/11763, 7-8=0/11778, 6-7=0/2550

3-8=0/9779, 4-8=-3856/0, 4-7=0/3821, 5-7=0/9324, 2-8=-3837/0, 2-10=0/3800, WFBS

5-10-12

1-10=0/9284

NOTES-

1) 4-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc.

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

Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 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 Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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) * 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.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1781 lb down at 1-5-4, 1781 lb down at 3-5-4, 1781 lb down at 5-5-4, 1781 lb down at 7-5-4, 1781 lb down at 9-5-4, 1781 lb down at 11-5-4, 1781 lb down at 13-5-4, 1781 lb down at 15-5-4, 1781 lb down at 17-5-4, and 1781 lb down at 19-5-4, and 1781 lb down at 21-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Vert: 1-3=-60, 3-5=-60, 6-11=-20



23-0-0

5-10-12

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

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

except end verticals.

March 20,2022

Continued on page 2



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss Type Voyageur; Master.RT Job Truss Qty Ply 150862749 MASTER RT B02GR COMMON

Builders FirstSource (Apex, NC), Apex, NC - 27523, LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 8=-1781(F) 12=-1781(F) 13=-1781(F) 14=-1781(F) 15=-1781(F) 16=-1781(F) 17=-1781(F) 18=-1781(F) 19=-1781(F) 20=-1781(F) 21=-1781(F)

818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Voyageur; Master.RT 150862750 MASTER RT C01 COMMON 3 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Mar 18 10:34:40 2022 Page 1 Builders FirstSource (Apex, NC) Apex, NC - 27523 ID:whs5sxHCVy0zsWPodSMdtHyQpff-f9KvB_kWH59bGNc5a1_HVYgGXj2X4KchakyuxqzZjtj 45-4-0 29-10-0

7-2-0

7-9-0

Structural wood sheathing directly applied or 2-10-2 oc purlins.

8-16, 6-16

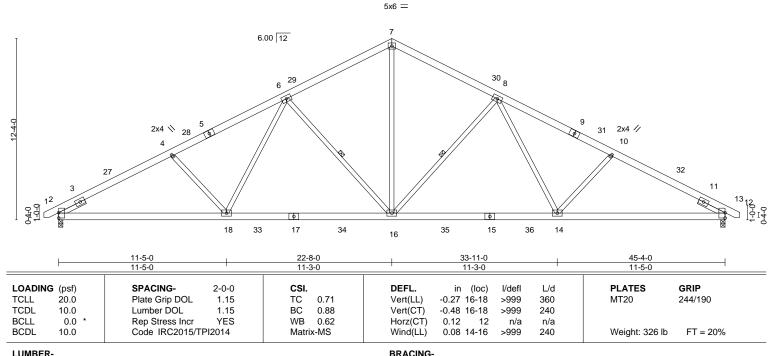
Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt

7-2-0

1-0-0 Scale = 1:78.4

7-9-0



TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2 2x4 SP No.3 WEBS

SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

REACTIONS. (size) 2=0-3-8, 12=0-3-8

Max Horz 2=139(LC 16) Max Grav 2=1863(LC 1), 12=1863(LC 1)

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

 $2\text{-}4\text{=-}3083/152,\ 4\text{-}6\text{=-}2839/161,\ 6\text{-}7\text{=-}2112/207,\ 7\text{-}8\text{=-}2112/207,\ 8\text{-}10\text{=-}2839/161,}$

10-12=-3083/152

7-9-0

7-9-0

BOT CHORD 2-18=-35/2658, 16-18=0/2269, 14-16=0/2269, 12-14=-36/2658

WFBS 7-16=-51/1499, 8-16=-776/140, 8-14=0/532, 10-14=-327/166, 6-16=-776/140,

6-18=0/532, 4-18=-327/166

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-14 to 3-8-9, Interior(1) 3-8-9 to 22-8-0, Exterior(2) 22-8-0 to 29-0-15, Interior(1) 29-0-15 to 46-1-14 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
- 3) All plates are 5x8 MT20 unless otherwise indicated.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.



Job Truss Truss Type Qty Voyageur; Master.RT 150862751 MASTER RT C01G **GABLE** Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Mar 18 10:34:43 2022 Page 1

ID:whs5sxHCVy0zsWPodSMdtHyQpff-3k02q0mOa0XA7qKgFAY?7BlwtwGHHoP8HiAYY9zZjtg 22-8-0 22-8-0 1-0-0

5x6 =

Scale = 1:80.6

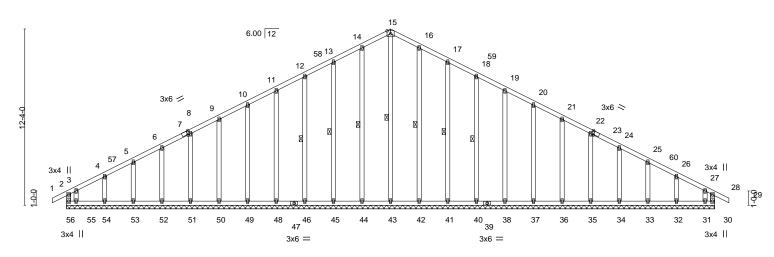


Plate Offsets (X V) [7:0-1-9 Edge] [23:0-1-9 Edge]

Tidle Off	SetS (A, I)	[1.0-1-9,Euge], [23.0-1-9]	,Lugoj									
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	0.19	Vert(LL)	-0.00	29	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.00	29	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.01	30	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-R						Weight: 355 lb	FT = 20%

LUMBER-BRACING-

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

2x4 SP No.3 2x4 SP No.3 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. **WEBS** 15-43, 14-44, 13-45, 12-46, 16-42, 17-41, 1 Row at midpt

18-40

REACTIONS. All bearings 45-4-0.

Max Horz 56=-138(LC 17) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 30, 44, 45, 46, 48, 49, 50, 51, 52, 53, 54, 42, 41, 40, 38, 37,

36, 35, 34, 33, 32 except 56=-102(LC 10), 55=-258(LC 12), 31=-201(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 30, 43, 44, 45, 46, 48, 49, 50, 51, 52, 53, 54, 55, 42, 41,

40, 38, 37, 36, 35, 34, 33, 32, 31 except 56=292(LC 12)

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

TOP CHORD 12-13=-96/286, 13-14=-111/327, 14-15=-122/358, 15-16=-122/351, 16-17=-111/321,

17-18=-96/280

NOTES-

OTHERS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 3-6-6, Exterior(2) 3-6-6 to 22-8-0, Corner(3) 22-8-0 to 27-2-6, Exterior(2) 27-2-6 to 46-4-0 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
- 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 2-0-0 oc.
- 8) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 30, 44, 45, 46, 48, 49, 50, 51, 52, 53, 54, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32 except (jt=lb) 56=102, 55=258, 31=201.



March 20,2022



Job Truss Truss Type Qty Voyageur; Master.RT 150862753 MASTER RT C02 COMMON Job Reference (optional) 8.430 s Oct 22 2021 MiTek Industries, Inc. Fri Mar 18 15:41:35 2022 Page 1 ID:whs5sxHCVy0zsWPodSMdtHyQpff-ISPyv4GvWPhRIDIViP1x9vsC6v2wFsYD6FGrnzzZfO_ Builders FirstSource, Apex, NC 27523 -1-0-0 1-0-0 7-9-0 15-6-0 22-8-0 29-10-0 37-7-0 45-0-8 7-9-0 7-9-0 7-2-0 7-2-0 7-9-0 7-5-8 Scale = 1:78.5 5x6 =6.00 12 29 8 28 6 9 2x4 × 27 30 2x4 // 10 26 17 32 16 33 35 13 14 15 6x8 II 4x8 = 11-5-0 22-8-0 33-11-0 45-0-8

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

WEBS

11-3-0

12

I/defI

>999

>999

>999

n/a

2-2-0 oc bracing: 12-13.

1 Row at midpt

L/d

360

240

n/a

240

in (loc)

0.14

-0.28 13-15

-0.50 13-15

0.08 13-15

LUMBER-

LOADING (psf)

20.0

10.0

10.0

0.0

TCLL

TCDI

BCLL

BCDL

TOP CHORD 2x6 SP No.2 **BOT CHORD** 2x6 SP No.2

WEBS 2x4 SP No.3 SLIDER Left 2x4 SP No.3 1-11-12, Right 2x6 SP No.2 1-11-12

REACTIONS. (size) 2=0-3-8, 12=Mechanical Max Horz 2=145(LC 12)

Max Grav 2=1851(LC 1), 12=1801(LC 1)

11-5-0

SPACING-

Plate Grip DOL

Rep Stress Inci

Code IRC2015/TPI2014

Lumber DOL

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

TOP CHORD 2-3=-1133/0, 3-26=-3060/119, 4-26=-2999/152, 4-27=-2816/122, 5-27=-2768/132,

2-0-0

1.15

1 15

YES

5-6=-2754/160, 6-28=-2089/172, 7-28=-2072/207, 7-29=-2074/209, 8-29=-2091/175, 8-9=-2698/167, 9-30=-2706/139, 10-30=-2747/129, 10-31=-2890/160, 11-31=-2974/141,

11-3-0

0.91

0.93

0.61

CSI.

TC

BC

WB

Matrix-MS

BOT CHORD 2-17=-58/2639, 17-32=-11/2249, 16-32=-11/2249, 16-33=-11/2249, 15-33=-11/2249,

15-34=0/2229, 14-34=0/2229, 14-35=0/2229, 13-35=0/2229, 12-13=-62/2546

WEBS 7-15=-52/1482, 8-15=-750/139, 8-13=0/476, 10-13=-276/170, 6-15=-776/140, 6-17=0/532,

4-17=-328/166

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-14 to 3-8-9, Interior(1) 3-8-9 to 22-8-0, Exterior(2) 22-8-0 to 29-0-15, Interior(1) 29-0-15 to 45-0-8 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
- 3) All plates are 5x8 MT20 unless otherwise indicated.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections
- 7) 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.

LOAD CASE(S)

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

Vert: 1-7=-60, 7-12=-60, 18-22=-20

2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-50, 7-12=-50, 18-32=-20, 32-33=-50, 33-34=-20, 34-35=-50, 22-35=-20

March 20,2022

11-1-8

Weight: 324 lb

GRIP

244/190

FT = 20%

PLATES

MT20

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

8-15, 6-15

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Voyageur; Master.RT	
						150862753
MASTER_RT	C02	COMMON	5	1		
					Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8 430 s Oct 22 2021 MiTek Industries Inc. Fri Mar 18 15:41:35 2022 Page 2 ID:whs5sxHCVy0zsWPodSMdtHyQpff-ISPyv4GvWPhRIDIViP1x9vsC6v2wFsYD6FGrnzzZfO_

LOAD CASE(S)

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-7=-20, 7-12=-20, 18-22=-40

4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=42, 2-26=22, 7-26=12, 7-29=22, 12-29=12, 18-22=-12

Horz: 1-2=-54, 2-26=-34, 7-26=-24, 7-29=34, 12-29=24

5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=8, 2-28=12, 7-28=22, 7-31=12, 12-31=22, 18-22=-12

Horz: 1-2=-20, 2-28=-24, 7-28=-34, 7-31=24, 12-31=34

6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-13, 2-7=-32, 7-12=-32, 18-22=-20

Horz: 1-2=-7, 2-7=12, 7-12=-12

7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-27, 2-7=-32, 7-12=-32, 18-22=-20

Horz: 1-2=7, 2-7=12, 7-12=-12

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=7, 2-7=-3, 7-12=7, 18-22=-12

Horz: 1-2=-19, 2-7=-9, 7-12=19

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=2, 2-7=7, 7-12=-3, 18-22=-12

Horz: 1-2=-14, 2-7=-19, 7-12=9

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-15, 2-7=-20, 7-12=-10, 18-22=-20

Horz: 1-2=-5, 2-7=-0, 7-12=10

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-6, 2-7=-10, 7-12=-20, 18-22=-20

Horz: 1-2=-14, 2-7=-10, 7-12=0

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=14, 2-27=19, 7-27=9, 7-12=2, 18-22=-12

Horz: 1-2=-26, 2-27=-31, 7-27=-21, 7-12=14

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-3, 2-7=2, 7-30=9, 12-30=19, 18-22=-12

Horz: 1-2=-9, 2-7=-14, 7-30=21, 12-30=31

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=5, 2-7=9, 7-12=2, 18-22=-12

Horz: 1-2=-17, 2-7=-21, 7-12=14

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-3, 2-7=2, 7-12=9, 18-22=-12

Horz: 1-2=-9, 2-7=-14, 7-12=21

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=6, 2-27=2, 7-27=-7, 7-12=-15, 18-22=-20

Horz: 1-2=-26, 2-27=-22, 7-27=-13, 7-12=5

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-11, 2-7=-15, 7-30=-7, 12-30=2, 18-22=-20

Horz: 1-2=-9. 2-7=-5. 7-30=13. 12-30=22

18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-7=-20, 7-12=-20, 18-32=-20, 32-33=-60, 33-34=-20, 34-35=-60, 22-35=-20

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-46, 2-7=-50, 7-12=-43, 18-32=-20, 32-33=-50, 33-34=-20, 34-35=-50, 22-35=-20

Horz: 1-2=-4, 2-7=-0, 7-12=7

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-39, 2-7=-43, 7-12=-50, 18-32=-20, 32-33=-50, 33-34=-20, 34-35=-50, 22-35=-20

Horz: 1-2=-11, 2-7=-7, 7-12=0

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

👠 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE



Job	Truss	Truss Type	Qty	Ply	Voyageur; Master.RT	
MASTER_RT	C02	COMMON	5	1		150862753
			~		Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

B.430 s Oct 22 2021 MiTek Industries, Inc. Fri Mar 18 15:41:35 2022 Page 3 ID:whs5sxHCVy0zsWPodSMdtHyQpff-ISPyv4GvWPhRIDIViP1x9vsC6v2wFsYD6FGrnzzZfO_

LOAD CASE(S)

Uniform Loads (plf)

Vert: 1-2=-30, 2-27=-34, 7-27=-41, 7-12=-46, 18-32=-20, 32-33=-50, 33-34=-20, 34-35=-50, 22-35=-20

Horz: 1-2=-20, 2-27=-16, 7-27=-9, 7-12=4

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-43, 2-7=-46, 7-30=-41, 12-30=-34, 18-32=-20, 32-33=-50, 33-34=-20, 34-35=-50, 22-35=-20

Horz: 1-2=-7, 2-7=-4, 7-30=9, 12-30=16 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-7=-60, 7-12=-20, 18-22=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-7=-20, 7-12=-60, 18-22=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-50, 7-12=-20, 18-32=-20, 32-33=-50, 33-34=-20, 34-35=-50, 22-35=-20

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-20, 7-12=-50, 18-32=-20, 32-33=-50, 33-34=-20, 34-35=-50, 22-35=-20

Job Truss Truss Type Qty Voyageur; Master.RT 150862754 MASTER RT C02G **GABLE** Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Mar 18 10:34:48 2022 Page 1

ID:whs5sxHCVy0zsWPodSMdtHyQpff-QhpxtjqXPY9SDbDd2j7AqE?mcxzSy3OtQ_uJDMzZjtb 22-8-0 22-4-8

> Scale = 1:79.8 5x6 =

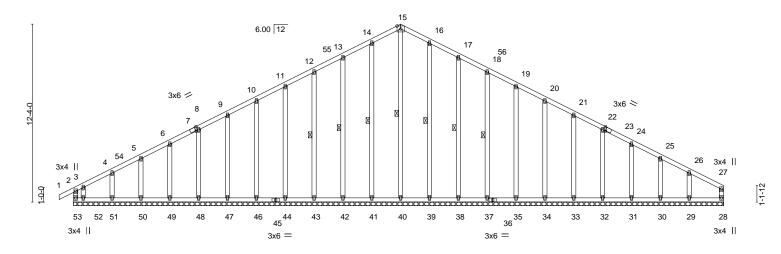


Plate Offsets (X,Y)--[7:0-1-9,Edge], [23:0-1-9,Edge] LOADING (psf) SPACING-CSI DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.19 Vert(LL) -0.00 120 244/190 n/r MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.10 Vert(CT) -0.00 n/r 120 **BCLL** 0.0 Rep Stress Incr NO WB 0.18 Horz(CT) 28 0.01 n/a n/a Code IRC2015/TPI2014 **BCDL** Weight: 351 lb FT = 20%

45-0-8

LUMBER-**BRACING-**

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

Matrix-R

WEBS 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.3 **WEBS** 15-40, 14-41, 13-42, 12-43, 16-39, 17-38, 1 Row at midpt

REACTIONS. All bearings 45-0-8.

10.0

Max Horz 53=146(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 41, 42, 43, 44, 46, 47, 48, 49, 50, 51, 39, 38, 37, 35, 34, 33,

32, 31, 30, 29 except 53=-137(LC 8), 52=-258(LC 12)

All reactions 250 lb or less at joint(s) 28, 40, 41, 42, 43, 44, 46, 47, 48, 49, 50, 51, 52, 39, 38, Max Grav

37, 35, 34, 33, 32, 31, 30, 29 except 53=296(LC 21)

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

TOP CHORD 11-12=-99/277, 12-13=-112/314, 13-14=-127/355, 14-15=-138/385, 15-16=-138/376,

16-17=-127/344, 17-18=-112/303, 18-19=-99/266

WEBS 15-40=-255/49

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 3-6-1, Exterior(2) 3-6-1 to 22-8-0, Corner(3) 22-8-0 to 27-2-1, Exterior(2) 27-2-1 to 44-10-12 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
- 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 2-0-0 oc.
- 8) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 41, 42, 43, 44, 46, 47, 48, 49, 50, 51, 39, 38, 37, 35, 34, 33, 32, 31, 30, 29 except (jt=lb) 53=137, 52=258.





 Job
 Truss
 Truss Type
 Qty
 Ply
 Voyageur; Master.RT

 MASTER_RT
 C02H
 COMMON
 6
 1
 Job Reference (optional)

Builders FirstSource, Apex, NC 27523

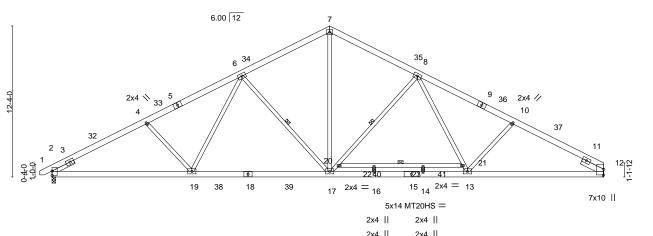
-<u>1-0-0</u> 1-0-0 7-9-0

7-9-0

8.430 s Oct 22 2021 MiTek Industries, Inc. Fri Mar 18 15:42:49 2022 Page 1 ID:whs5sxHCVy0zsWPodSMdtHyQpff-7huwROAK580xdbyj2yMl9Vwr0kJnbKj67mBlMgzZfMq

15-6-0 22-8-0 29-10-0 37-7-0 45-0-8 7-9-0 7-2-0 7-9-0 7-5-8

Scale = 1:94.1



5x6 =

	11-5-0	22-8-0	26-3-8	30-3-8	33-11-0	1	45-0-8	1
	11-5-0	11-3-0	3-7-8	4-0-0	3-7-8	l .	11-1-8	<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 NO Code IRC2015/TPI2014	CSI. TC 1.00 BC 0.90 WB 0.62 Matrix-MS	- '(/	in (loc) -0.28 14-16 -0.47 14-16 0.12 12 0.07 14	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 MT20HS Weight: 340 lb	GRIP 244/190 187/143 FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

1 Row at midpt

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

8-17, 6-17, 20-21

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP DSS *Except*

2-18: 2x6 SP No.2

WEBS 2x4 SP No.3

SLIDER Left 2x4 SP No.3 1-11-12, Right 2x6 SP No.2 1-11-12

REACTIONS. (size) 2=0-3-8, 12=Mechanical

Max Horz 2=145(LC 12)

Max Grav 2=1851(LC 1), 12=1801(LC 1)

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

TOP CHORD 2-3=-1197/0, 3-32=-3059/119, 4-32=-2998/152, 4-33=-2826/123, 5-33=-2785/133,

5-6=-2771/161, 6-34=-2113/172, 7-34=-2096/207, 7-35=-2097/209, 8-35=-2114/175, 8-9=-2711/168, 9-36=-2721/140, 10-36=-2763/130, 10-37=-2889/161, 11-37=-2973/142,

11-12=-511/0

BOT CHORD 2-19=-59/2638, 19-38=-11/2267, 18-38=-11/2267, 18-39=-11/2267, 17-39=-11/2267, 16-17=0/2236, 15-16=0/2236, 14-15=0/2236, 13-14=0/2236, 12-13=-63/2550

7-17=-53/1503, 17-20=-744/133, 8-20=-746/140, 8-21=0/600, 13-21=-2/571,

10-13=-286/169, 6-17=-776/140, 6-19=0/503, 4-19=-328/166

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-14 to 3-8-9, Interior(1) 3-8-9 to 22-8-0, Exterior(2) 22-8-0 to 29-0-15, Interior(1) 29-0-15 to 45-0-8 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
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) All plates are 5x8 MT20 unless otherwise indicated.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections
- 8) 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.
- 9) N/A
- 10) 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)

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



Continued on page 2

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ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Voyageur; Master.RT	
MASTER_RT	C02H	COMMON	6	1		150862755
W/OTEN_IN	30211	Commerc	o .		Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8 430 s Oct 22 2021 MiTek Industries Inc. Fri Mar 18 15:42:49 2022 Page 2 ID:whs5sxHCVy0zsWPodSMdtHyQpff-7huwROAK580xdbyj2yMl9Vwr0kJnbKj67mBlMgzZfMq

LOAD CASE(S)

Uniform Loads (plf)

Vert: 1-7=-60, 7-12=-60, 24-28=-20

2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-50, 7-12=-50, 24-38=-20, 38-39=-50, 28-39=-20, 40-41=-30(F)

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-7=-20, 7-12=-20, 24-28=-40, 40-41=-40(F)

4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=42, 2-32=22, 7-32=12, 7-35=22, 12-35=12, 24-28=-12

Horz: 1-2=-54, 2-32=-34, 7-32=-24, 7-35=34, 12-35=24

5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=8, 2-34=12, 7-34=22, 7-37=12, 12-37=22, 24-28=-12 Horz: 1-2=-20, 2-34=-24, 7-34=-34, 7-37=24, 12-37=34

6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-13, 2-7=-32, 7-12=-32, 24-28=-20

Horz: 1-2=-7, 2-7=12, 7-12=-12

7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-27, 2-7=-32, 7-12=-32, 24-28=-20

Horz: 1-2=7, 2-7=12, 7-12=-12

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=7, 2-7=-3, 7-12=7, 24-28=-12

Horz: 1-2=-19, 2-7=-9, 7-12=19

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=2, 2-7=7, 7-12=-3, 24-28=-12

Horz: 1-2=-14, 2-7=-19, 7-12=9

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-15, 2-7=-20, 7-12=-10, 24-28=-20

Horz: 1-2=-5, 2-7=-0, 7-12=10

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-6, 2-7=-10, 7-12=-20, 24-28=-20

Horz: 1-2=-14, 2-7=-10, 7-12=0

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=14, 2-33=19, 7-33=9, 7-12=2, 24-28=-12

Horz: 1-2=-26, 2-33=-31, 7-33=-21, 7-12=14

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-3, 2-7=2, 7-36=9, 12-36=19, 24-28=-12

Horz: 1-2=-9, 2-7=-14, 7-36=21, 12-36=31

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=5, 2-7=9, 7-12=2, 24-28=-12

Horz: 1-2=-17, 2-7=-21, 7-12=14

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-3, 2-7=2, 7-12=9, 24-28=-12

Horz: 1-2=-9, 2-7=-14, 7-12=21

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=6, 2-33=2, 7-33=-7, 7-12=-15, 24-28=-20

Horz: 1-2=-26, 2-33=-22, 7-33=-13, 7-12=5

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-11, 2-7=-15, 7-36=-7, 12-36=2, 24-28=-20

Horz: 1-2=-9, 2-7=-5, 7-36=13, 12-36=22

18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-7=-20, 7-12=-20, 24-38=-20, 38-39=-60, 28-39=-20, 40-41=-40(F)

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-46, 2-7=-50, 7-12=-43, 24-38=-20, 38-39=-50, 28-39=-20, 40-41=-30(F)

Horz: 1-2=-4, 2-7=-0, 7-12=7

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

👠 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Voyageur; Master.RT	
MASTER_RT	C02H	COMMON	6	1		150862755
	332		ŭ		Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.430 s Oct 22 2021 MiTek Industries, Inc. Fri Mar 18 15:42:49 2022 Page 3 ID:whs5sxHCVy0zsWPodSMdtHyQpff-7huwROAK580xdbyj2yMl9Vwr0kJnbKj67mBlMgzZfMq

LOAD CASE(S)

Uniform Loads (plf)

Vert: 1-2=-39, 2-7=-43, 7-12=-50, 24-38=-20, 38-39=-50, 28-39=-20, 40-41=-30(F)

Horz: 1-2=-11, 2-7=-7, 7-12=0

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-30, 2-33=-34, 7-33=-41, 7-12=-46, 24-38=-20, 38-39=-50, 28-39=-20, 40-41=-30(F)

Horz: 1-2=-20, 2-33=-16, 7-33=-9, 7-12=4

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-43, 2-7=-46, 7-36=-41, 12-36=-34, 24-38=-20, 38-39=-50, 28-39=-20, 40-41=-30(F)

Horz: 1-2=-7, 2-7=-4, 7-36=9, 12-36=16

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-7=-60, 7-12=-20, 24-28=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

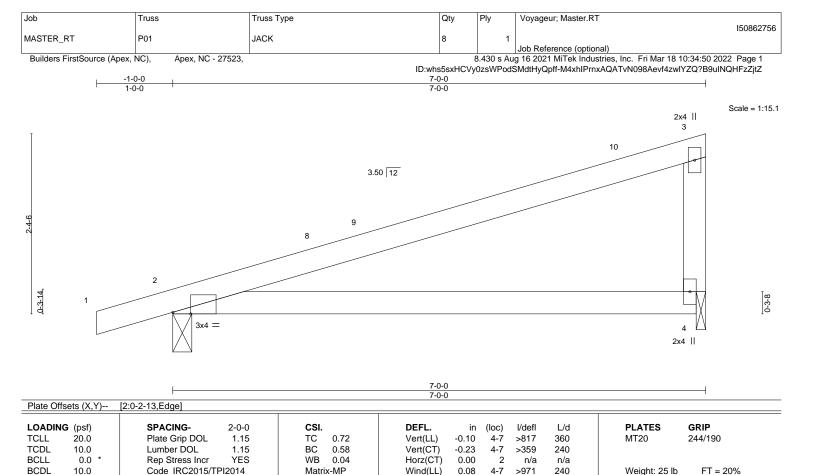
Vert: 1-7=-20, 7-12=-60, 24-28=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-50, 7-12=-20, 24-38=-20, 38-39=-50, 28-39=-20, 40-41=-30(F)

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-20, 7-12=-50, 24-38=-20, 38-39=-50, 28-39=-20, 40-41=-30(F)



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=0-3-0, 4=0-1-8

Max Horz 2=74(LC 8) Max Uplift 2=-45(LC 8), 4=-30(LC 8) Max Grav 2=339(LC 1), 4=270(LC 1)

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

NOTES-

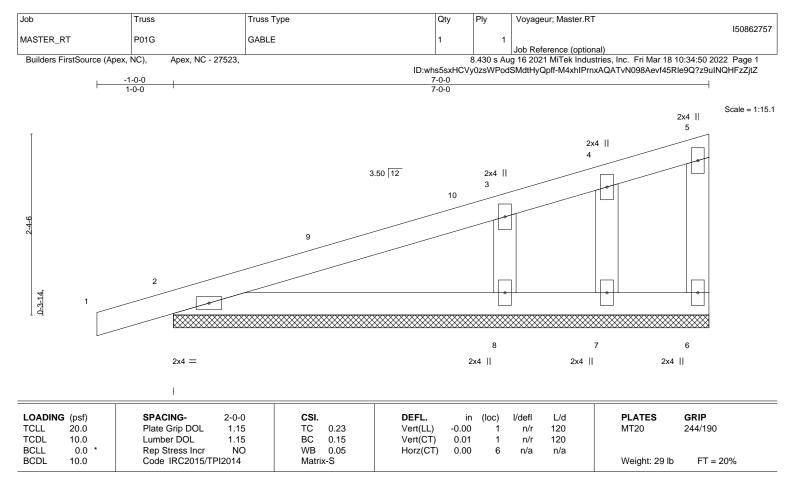
- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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.



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

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





BOT CHORD

BRACING-LUMBER-TOP CHORD

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

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

REACTIONS. All bearings 7-0-0. Max Horz 2=71(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7, 8

Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7 except 8=368(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-8=-259/171

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 6-10-4 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
- 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.
- Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 1-4-0 oc.
- 5) 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7, 8.



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

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

except end verticals.

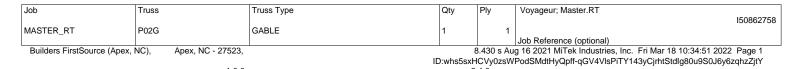


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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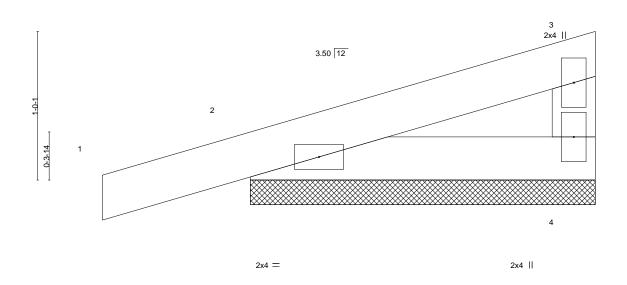
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





2-4-0





LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL) 0.00 1 n/r 120	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) 0.00 1 n/r 120	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.00 4 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 9 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

(size)

WEBS 2x4 SP No.3

4=2-4-0, 2=2-4-0 Max Horz 2=26(LC 9) Max Uplift 4=-5(LC 12), 2=-42(LC 8)

Max Grav 4=74(LC 1), 2=161(LC 1)

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

1-0-0

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 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
- 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 requires continuous bottom chord bearing.
- 4) Gable studs spaced at 1-4-0 oc.
- 5) 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

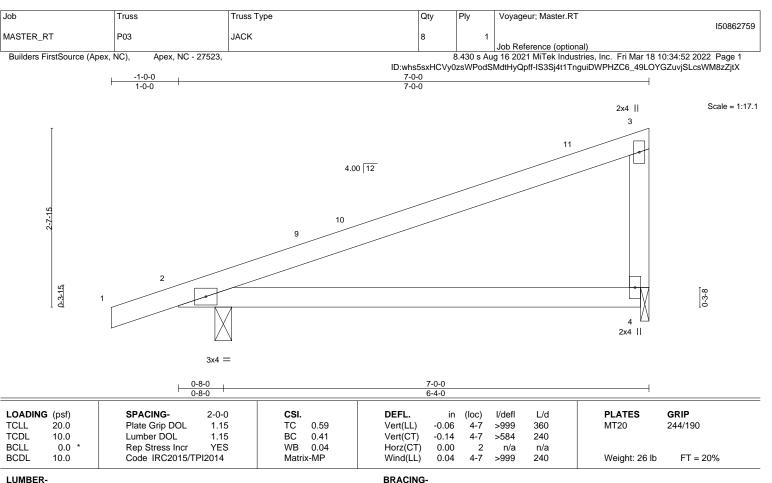


Structural wood sheathing directly applied or 2-4-0 oc purlins,

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

except end verticals.





TOP CHORD

BOT CHORD

LUMBER-TOP CHORD BOT CHORD

2x4 SP No.2 2x4 SP No.2

WEBS 2x4 SP No.3

REACTIONS. 2=0-3-0, 4=0-1-8 (size) Max Horz 2=84(LC 8)

Max Uplift 2=-47(LC 8), 4=-28(LC 8) Max Grav 2=375(LC 1), 4=233(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 Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-10-4 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
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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.



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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ID:whs5sxHCVy0zsWPodSMdtHyQpff-IS3Sj4t1TnguiDWPHZC6_49T0YLzuvjSLcsWM8zZjtX 7-0-0 7-0-0 1-0-0

Scale = 1:16.5 2x4 || 5 2x4 || 4.00 12 10 2x4 || 0-3-15 2x4 = 2x4 || 2x4 || 2x4 ||

Plate Of	Plate Offsets (X,Y) [6:Edge,0-1-12]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.Ó	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	0.00	ì í	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	ВС	0.07	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matrix	c-S						Weight: 29 lb	FT = 20%

LUMBER-BRACING-

2x4 SP No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.2 except end verticals. **WEBS** 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-0-0.

Max Horz 2=83(LC 9) (lb) -

2x4 SP No.3

Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7, 8 Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7, 8

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

OTHERS

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 6-10-4 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
- 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.
- Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7, 8.





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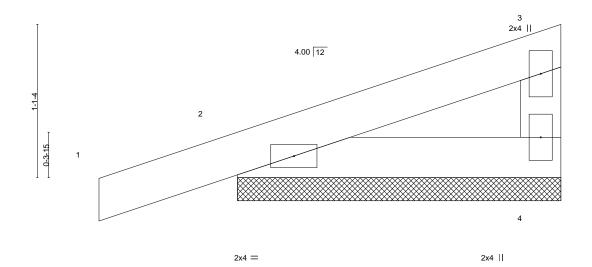
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Voyageur; Master.RT 150862761 MASTER RT P04G **GABLE** Job Reference (optional)
8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Mar 18 10:34:53 2022 Page 1 Builders FirstSource (Apex, NC), Apex, NC - 27523 ID:whs5sxHCVy0zsWPodSMdtHyQpff-nfcqwQugD5olKN5brGjLXlie9yhMdMWcaGb4uazZjtW 2-4-0

2-4-0

Scale = 1:8.3



LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl 20.0 Plate Grip DOL 1.15 TC Vert(LL) 0.00 120 244/190 **TCLL** 0.08 n/r MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.06 Vert(CT) 0.00 n/r 120 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.00 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-P Weight: 10 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS. 4=2-4-0, 2=2-4-0 (size)

Max Horz 2=31(LC 9) Max Uplift 4=-6(LC 12), 2=-42(LC 8)

Max Grav 4=74(LC 1), 2=161(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 Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 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
- 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 requires continuous bottom chord bearing.
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1-0-0

- * 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



Structural wood sheathing directly applied or 2-4-0 oc purlins,

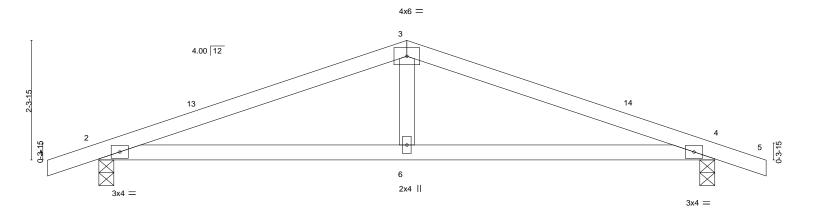
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



ĺ	Job	Truss	Truss Type	Qty	Ply	Voyageur; Master.RT	
							150862762
	MASTER_RT	SP01	COMMON	4	1		
						Job Reference (optional)	
	Builders FirstSource (Apex,	NC), Apex, NC - 27523,			3.430 s Au	g 16 2021 MiTek Industries, Inc. Fri Mar 18 10:34:54 2	2022 Page 1
			I	D:whs5sxHCVy0z	sWPodSN	ldtHyQpff-FrAC8mul_OwcyWgnO_Ea3VFkJMwiMn7lp	wLdR0zZjtV
	1-0-0	6	-0-0			12-0-0	13-0-0
	1-0-0	6	-0-0			6-0-0	1-0-0

Scale = 1:22.4



	6-0-0		1		12-0-0		
	6-0-0		'		6-0-0		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	I/defI L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.43	Vert(LL) -0.	.05 6-9	>999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.50	Vert(CT) -0.	.10 6-9	>999 240		
BCLL 0.0	* Rep Stress Incr YES	WB 0.11	Horz(CT) 0.	.01 4	n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.	.04 6-9	>999 240	Weight: 43 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 WEBS

REACTIONS. 2=0-3-8, 4=0-3-8 (size)

Max Horz 2=40(LC 12) Max Uplift 2=-55(LC 8), 4=-55(LC 9) Max Grav 2=540(LC 1), 4=540(LC 1)

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

2-3=-888/94, 3-4=-888/90 TOP CHORD

BOT CHORD 2-6=-27/810, 4-6=-27/810

WEBS 3-6=0/276

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-0-0, Exterior(2) 6-0-0 to 10-2-15, Interior(1) 10-2-15 to 13-0-0 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
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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, 4.



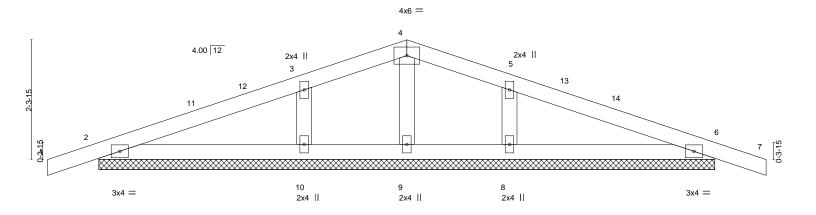
Structural wood sheathing directly applied or 5-6-2 oc purlins.

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



	Job	Truss	Truss Type	Qty	Ply	Voyageur; Master.R I		
	MASTER RT	SP01G	GABLE	1	1		150862763	
						Job Reference (optional)		
Builders FirstSource (Apex, NC), Apex, NC - 27523,				8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Mar 18 10:34:54 2022 Page 1				
ID:whs5sxHCVy0zsWPodSMdtHyQpff-FrAC8mul_OwcyWgnO_Ea3VFn2M0WMo1lpwLdR0zZ						wLdR0zZjtV		
	-1-0-0	6	-0-0			12-0-0	13-0-0	
	1-0-0	6	-0-0			6-0-0	1-0-0	

Scale = 1:22.4



12-0-0										
LOADING	\	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	_	GRIP
TCLL TCDL	20.0 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.19 BC 0.13	Vert(LL) Vert(CT)	0.00 0.01	7	n/r n/r	120 120	MT20	244/190
BCLL	0.0 *	Rep Stress Incr NO	WB 0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S						Weight: 46 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

OTHERS 2x4 SP No.3

REACTIONS. All bearings 12-0-0. Max Horz 2=31(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8

Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9 except 10=322(LC 1), 8=322(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 Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 6-0-0, Corner(3) 6-0-0 to 9-0-0, Exterior(2) 9-0-0 to 13-0-0 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
- 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8.



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

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



Job	Truss	Truss Type	Qty	Ply	Voyageur; Master.RT		
MASTER_RT	V01	GABLE	1	1		150862764	
		OABLE			Job Reference (optional		
Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Mar 18 10:34:55 2022 Page 1							
ID:whs5sxHCVy0zsWPodSMdtHyQpff-j1kaL6vwli2TZgF_yhlpcjnrOmHD5EZv1a4BzSzZjt							
<u> </u>		0-0-12			10-0-12		
			4x6 =			Scale = 1:37.6	
T			3				
	7.00 1:	-					
	7.00 12	2x4 11		1	2 2x4		
		2			4		
5-10-7							
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		2x4    3x6 =	2x4		2x4		
<del></del>			20-1-8 20-1-8				
			20-1-0				
LOADING (psf)	SPACING- 2-0-0		DEFL. ir		I/defI L/d	PLATES GRIP	
TCLL 20.0	Plate Grip DOL 1.15		Vert(LL) n/a		n/a 999	MT20 244/190	
TCDL 10.0	Lumber DOL 1.15		Vert(CT) n/a		n/a 999		
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.09 Matrix-S	Horz(CT) 0.00	5	n/a n/a	Weight: 80 lb FT = 20%	
DODE 10.0	0006 IN02013/11/12014	IVIQUIX-5				**Olgit. 00 ID 1 1 - 20/0	
I IIMRED.			BBACING.				

TOP CHORD

**BOT CHORD** 

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

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

REACTIONS. All bearings 20-1-8.

Max Uplift All uplift 100 lb or less at joint(s) except 9=-105(LC 12), 6=-105(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=321(LC 22), 9=511(LC 19), 6=511(LC 20)

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

2-9=-354/165, 4-6=-354/165 WEBS

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 10-0-12, Exterior(2) 10-0-12 to 13-0-12, Interior(1) 13-0-12 to 19-7-1 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
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 105 lb uplift at joint 9 and 105 lb uplift at joint 6.



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

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



Job Truss Truss Type Qty Voyageur; Master.RT 150862765 MASTER RT V02 **GABLE** Job Reference (optional) Builders FirstSource (Apex, NC), Apex, NC - 27523 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Mar 18 10:34:56 2022 Page 1 ID:whs5sxHCVy0zsWPodSMdtHyQpff-BEIzYSwYW0AKBqqAWPH29wK4a9gcqh32GEqkVvzZjtT 8-4-3 8-4-3 16-8-6 Scale = 1:33.3 4x6 = 7.00 12 2x4 || 2x4 || 13 10 3x4 / 9 8 6 3x4 > 3x6 = 2x4 | 2x4 || 2x4 || 16-8-6 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl 20.0 Plate Grip DOL 999 244/190 **TCLL** 1.15 TC 0.38 Vert(LL) n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.21 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.08 Horz(CT) 0.00 5 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 64 lb FT = 20% **BRACING-**LUMBER-

TOP CHORD

BOT CHORD

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

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

REACTIONS. All bearings 16-8-6. Max Horz 1=-90(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=253(LC 1), 9=375(LC 19), 6=375(LC 20)

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

2-9=-280/132, 4-6=-280/132 WEBS

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 8-4-3, Exterior(2) 8-4-3 to 11-4-3, Interior(1) 11-4-3 to 16-1-14 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
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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, 9, 6.



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

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



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Voyageur; Master.RT 150862766 MASTER RT V03 **GABLE** Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Mar 18 10:34:57 2022 Page 1 ID:whs5sxHCVy0zsWPodSMdtHyQpff-fQsLmoxAHJIAp_PM46oHh8tHmZ0_Z9cBVuZH1LzZjtS Builders FirstSource (Apex, NC), Apex, NC - 27523 6-7-10 6-7-10 Scale = 1:25.1 4x6 = 3 7.00 12 2x4 || 4^{2x4} || 2 8 2x4 || 7 6 2x4 || 3x4 / 3x4 < 5x6 = Plate Offsets (X,Y)--[7:0-3-0,0-3-0] SPACING-**PLATES** LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.29 Vert(LL) 999 244/190 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.21 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.00 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Weight: 49 lb Matrix-S

LUMBER-

TOP CHORD 2x4 SP No.3 2x4 SP No.3 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 13-3-4.

(lb) -Max Horz 1=-70(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 6

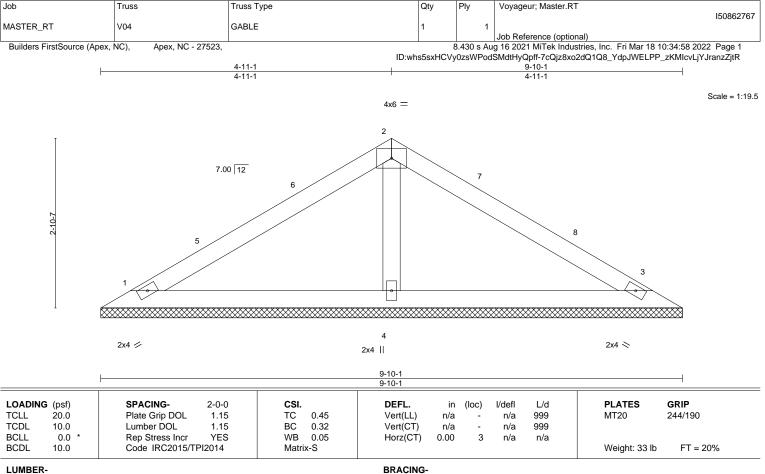
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=279(LC 1), 8=301(LC 19), 6=301(LC 20)

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 Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 6-7-10, Exterior(2) 6-7-10 to 9-7-10, Interior(1) 9-7-10 to 12-8-12 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
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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, 8, 6.





TOP CHORD

BOT CHORD

LUMBER-TOP CHORD BOT CHORD

**OTHERS** 

REACTIONS.

2x4 SP No.3 2x4 SP No.3

2x4 SP No.3

1=9-10-1, 3=9-10-1, 4=9-10-1 (size)

Max Horz 1=-50(LC 8) Max Uplift 1=-16(LC 12), 3=-23(LC 13)

Max Grav 1=165(LC 23), 3=165(LC 24), 4=372(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 Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 4-11-1, Exterior(2) 4-11-1 to 7-11-1, Interior(1) 7-11-1 to 9-3-10 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
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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.

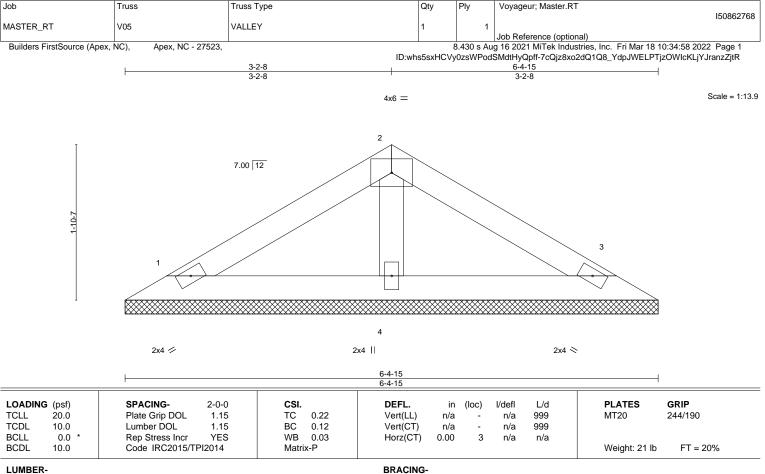
Rigid ceiling directly applied or 10-0-0 oc bracing.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





TOP CHORD

BOT CHORD

LUMBER-

2x4 SP No.3 2x4 SP No.3

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

REACTIONS.

1=6-4-15, 3=6-4-15, 4=6-4-15 (size) Max Horz 1=31(LC 11) Max Uplift 1=-14(LC 12), 3=-18(LC 13)

Max Grav 1=111(LC 1), 3=111(LC 1), 4=205(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 Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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.

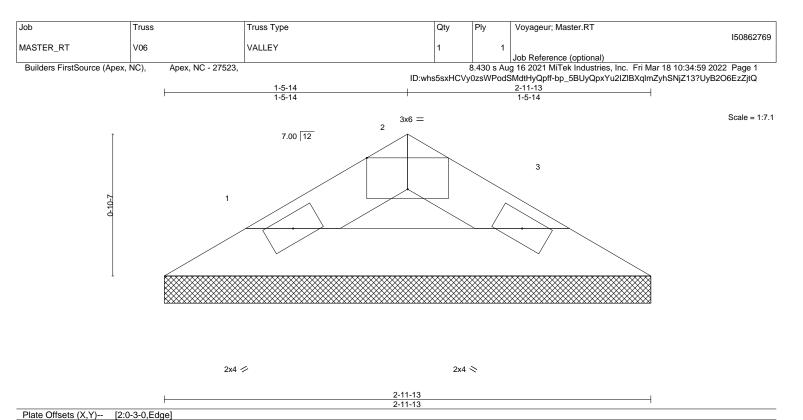
Rigid ceiling directly applied or 10-0-0 oc bracing.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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

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LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.02 BC 0.07 WB 0.00	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         n/a         -         n/a         999           Vert(CT)         n/a         -         n/a         999           Horz(CT)         0.00         3         n/a         n/a	PLATES GRIP MT20 244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 8 lb FT = 20%

LUMBER-

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

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 2-11-13 oc purlins.

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

REACTIONS. 1=2-11-13, 3=2-11-13 (size)

Max Horz 1=-11(LC 8) Max Uplift 1=-2(LC 12), 3=-2(LC 13) Max Grav 1=76(LC 1), 3=76(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 Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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.



### Symbols

## PLATE LOCATION AND ORIENTATION



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



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

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

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

### PLATE SIZE



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

### LATERAL BRACING LOCATION



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

### **BEARING**



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

### Industry Standards:

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

ANSI/TPI1: DSB-89:

## 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

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

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

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A MiTek Antiliate
MITek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

# **General Safety Notes**

# Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.

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- Cut members to bear tightly against each other.
- 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.

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- 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.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 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 environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.