

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 1800932-1800932A CL 3145 CP

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Pages or sheets covered by this seal: I35954404 thru I35954429

My license renewal date for the state of North Carolina is December 31, 2019.

North Carolina COA: C-0844



January 25,2019

Sevier, Scott

IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

Job Truss Truss Type Qty CL 3145 CP 135954404 1800932-1800932A GR01 Common Girder ■ Job Reference (optional)
8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Jan 25 06:34:17 2019 Page 1 84 Components, Dunn, NC - 28334, ID:t3epcH3jsYDtlBpFK2vjoozk_By-7ZFe7Syzme4OeLY2Kt3Y0CSovqO_7ayp73Xy3nzrugq 3-0-3 3-0-3 11-2-0 2-6-13 2-6-13 3-0-3 4x6 || Scale = 1:26.9 3 8.00 12 1.5x4 \\ 1.5x4 // 2 0-6-3 14 7 15 6 16 17 HUS26 8x8 = HUS26 8x8 = HUS26 6x6 HUS26 HUS26 6x6 = 3-10-7 11-2-0 7-3-9 3-10-7 3-10-7 Plate Offsets (X,Y)--[1:0-0-0,0-1-13], [5:Edge,0-1-13], [6:0-4-0,0-4-8], [7:0-4-0,0-4-8] LOADING (psf) SPACING-DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.30 Vert(LL) -0.04 6-7 >999 240 244/190 MT20

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.08

0.02

6-7

5

>999

n/a

180

n/a

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

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

Weight: 128 lb

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

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

10.0

10.0

0.0

REACTIONS. (lb/size) 1=3723/0-3-8, 5=4216/0-3-8

Max Horz 1=87(LC 7) Max Uplift 1=-808(LC 8), 5=-916(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-5228/1158, 2-3=-5164/1193, 3-4=-5221/1206, 4-5=-5279/1169 TOP CHORD

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

1.15

NO

1-7=-914/4329, 6-7=-598/3068, 5-6=-927/4388 **BOT CHORD**

WEBS 3-6=-693/3087, 3-7=-669/2980

NOTES-

1) 2-ply truss to be connected together with 10d (0.120"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 0-5-0 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.

ВС

WB

Matrix-MS

0.93

0.64

- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 808 lb uplift at joint 1 and 916 lb uplift at joint 5.
- 8) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-0 from the left end to 10-0-0 to connect truss(es) to front face of bottom chord.
- 9) Fill all nail holes where hanger is in contact with lumber.

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, 8-11=-20

Vert: 7=-1409(F) 14=-1409(F) 15=-1409(F) 16=-1409(F) 17=-1409(F)





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.







Scale = 1:26.9 4x8 ||

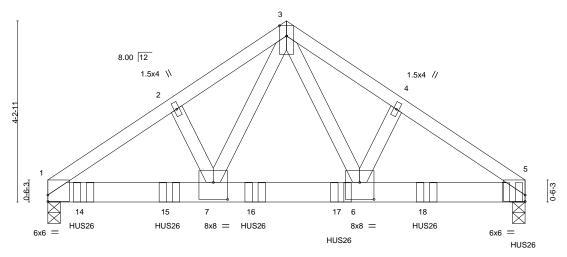
Structural wood sheathing directly applied or 4-10-5 oc purlins.

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

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT

WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC

ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER



3-10-4 3-10-4 3-10-4 Plate Offsets (X,Y)-- [1:0-0-0,0-1-13], [5:Edge,0-1-13], [6:0-4-0,0-4-12], [7:0-4-0,0-4-12]

	(-, -, -,	[,], [3-,	1/ [-,								
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	0.36	Vert(LL)	-0.04	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.09	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-MS						Weight: 127 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

OR THE BUILDING DESIGNER.

LUMBER-

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

REACTIONS. (lb/size) 1=4801/0-3-8 (req. 0-3-14), 5=5337/0-3-8 (req. 0-4-5)

Max Horz 1=86(LC 24)

Max Uplift 1=-813(LC 8), 5=-897(LC 8) Max Grav 1=4920(LC 2), 5=5478(LC 2)

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

TOP CHORD 1-2=-5827/990, 2-3=-5776/1026, 3-4=-5604/999, 4-5=-5663/965

BOT CHORD $1-7=-777/4848,\ 6-7=-489/3363,\ 5-6=-751/4683$

WFBS 3-6=-542/3178. 3-7=-594/3512

NOTES-

1) 2-ply truss to be connected together with 10d (0.120"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 0-4-0 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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 7) WARNING: Required bearing size at joint(s) 1, 5 greater than input bearing size.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 813 lb uplift at joint 1 and 897 lb uplift at ioint 5.
- 9) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 2-3-8 oc max. starting at 0-10-0 from the left end to 11-1-8 to connect truss(es) to front face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.

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, 8-11=-20

January 25,2019

Continued on page 2

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Qty Job Truss Truss Type Ply CL 3145 CP 135954405 1800932-1800932A GR02 Common Girder

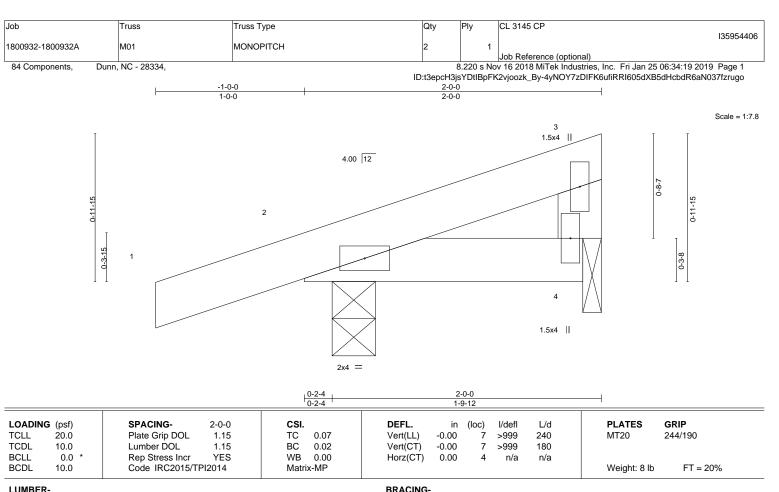
Dunn, NC - 28334, 84 Components,

Z Job Reference (optional) 8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Jan 25 06:34:18 2019 Page 2 ID:t3epcH3jsYDtlBpFK2vjoozk_By-cmp0KozbXyCFGV7FtabnZQ?yqEjus?qzLjHWbDzrugp

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 11=-1547(F) 14=-1542(F) 15=-1540(F) 16=-1540(F) 17=-1540(F) 18=-1540(F)





BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS. 2=150/0-3-8, 4=58/0-1-8 (lb/size) Max Hórz 2=31(LC 7)

Max Uplift 2=-73(LC 8), 4=-3(LC 8)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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 73 lb uplift at joint 2 and 3 lb uplift at joint 4.



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

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

except end verticals.

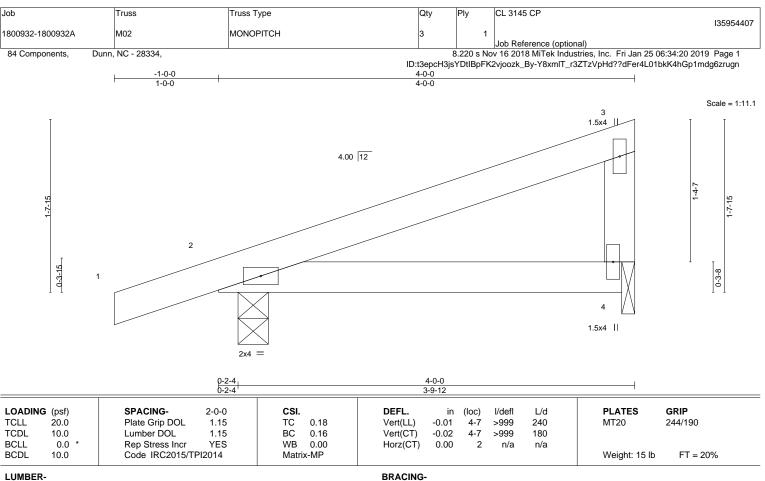
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ANSI/TPI1 Qua
Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





BOT CHORD

TOP CHORD

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

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

REACTIONS. 4=146/0-1-8, 2=222/0-3-8 (lb/size)

Max Hórz 2=58(LC 7)

Max Uplift 4=-29(LC 8), 2=-81(LC 8)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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 29 lb uplift at joint 4 and 81 lb uplift at joint 2.



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

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

except end verticals.



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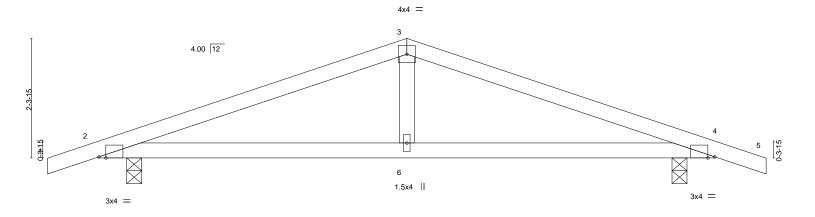
ANSITP1 Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job	Truss	Truss Type	Qty	Ply	CL 3145 CP	
						135954408
1800932-1800932A	P1	Hip	3	1		
					Job Reference (optional)	
84 Components, Dunn, I	NC - 28334,			8.220 s No	v 16 2018 MiTek Industries, Inc. Fri Jan 25 06:34:20 20	19 Page 1
			D:t3epcH3js\	DtlBpFK2v	ijoozk_By-Y8xmlT_r3ZTzVpHd??dFer4HY1ZoK3TGp1m	ndg6zrugn
-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



0-6			-	11-5-8 5-5-8	12-0-0
Plate Offsets (X,Y)	[2:0-1-10,Edge], [4:0-1-10,Edge]				
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 0.41 BC 0.28 WB 0.08 Matrix-MS	DEFL. in Vert(LL) -0.02 Vert(CT) -0.04 Horz(CT) 0.01	6-14 >999 240	PLATES GRIP MT20 244/190 Weight: 43 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. (lb/size) 2=540/0-3-8, 4=540/0-3-8

Max Horz 2=-29(LC 6)

Max Uplift 2=-145(LC 8), 4=-145(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-645/111, 3-4=-645/111

BOT CHORD 2-6=-28/556, 4-6=-28/556

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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 145 lb uplift at joint 2 and 145 lb uplift at joint 4.



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. 10/03/2015 BEFORE USE.

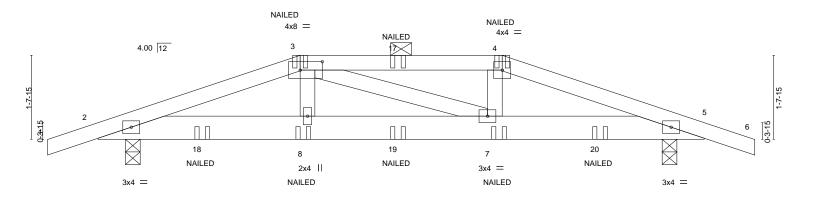
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Job	Truss	Truss Type	Qty	Ply	CL 3145 CP	
						135954409
1800932-1800932A	PH	Hip Girder	1	1		
					Job Reference (optional)	
84 Components, Dunn,	NC - 28334,			3.220 s No	v 16 2018 MiTek Industries, Inc. Fri Jan 25 06:34:	21 2019 Page 1
			ID:t3epcH3jsY	DtlBpFK2v	vjoozk_By-0LU8zp?Tqtbq7ysqZj8UA2cTERvP3X_	P2hVACYzrugm
1-0-0	4-0-0	8-0-0	0		12-0-0	13-0-0
1-0-0	4-0-0	4-0-0)		4-0-0	1-0-0

Scale = 1:22.8



	0-6-8 0-6-8	4-0-0				8-0-0 4-0-0		+		11-5-8 3-5-8		12-0-0 0-6-8
Plate Offset	ts (X,Y) [3	3:0-5-4,0-2-0]										
TCDL BCLL	(psf) 20.0 10.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 NO	CSI. TC BC WB	0.35 0.26 0.06	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.04 0.01	(loc) 7-8 7-8 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCDL	10.0	Code IRC2015/TF	PI2014	Matrix	k-MS						Weight: 58 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS. (lb/size) 2=683/0-3-8, 5=683/0-3-8

Max Horz 2=21(LC 7)

Max Uplift 2=-185(LC 8), 5=-184(LC 8)

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

2-3=-1004/184, 3-4=-924/177, 4-5=-992/179 TOP CHORD BOT CHORD 2-8=-118/927, 7-8=-111/936, 5-7=-122/916

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 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 185 lb uplift at joint 2 and 184 lb uplift at
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) 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, 4-6=-60, 2-5=-20

Concentrated Loads (lb)

Vert: 3=-22(F) 4=-22(F) 8=-15(F) 7=-15(F) 17=-22(F) 18=-87(F) 19=-15(F) 20=-87(F)



Structural wood sheathing directly applied or 5-10-9 oc purlins,

2-0-0 oc purlins (5-7-6 max.): 3-4.

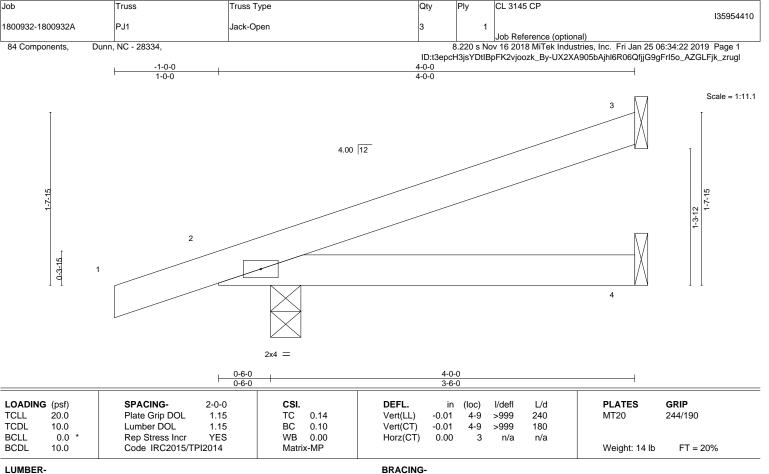
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MILES REPERENCE FAGE MILES AND INCLUDED MILES REPERENCE FAGE MILES AND INCLUDED MILES REPERENCE FAGE MILES AND INCLUDED MILES AND IN 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.





BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD

2x4 SP No.2

(lb/size) 3=82/Mechanical, 2=258/0-3-8, 4=35/Mechanical

Max Horz 2=72(LC 8)

Max Uplift 3=-39(LC 8), 2=-86(LC 8)

Max Grav 3=82(LC 1), 2=258(LC 1), 4=60(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 3 and 86 lb uplift at joint 2.



Structural wood sheathing directly applied or 4-0-0 oc purlins.

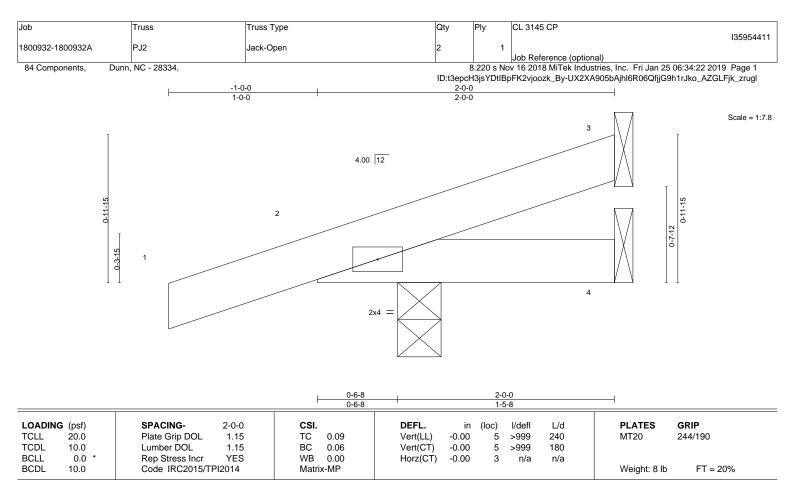
Rigid ceiling directly applied or 10-0-0 oc bracing

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

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.





LUMBER-

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

BRACING-

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

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

REACTIONS.

(lb/size) 3=13/Mechanical, 4=-7/Mechanical, 2=213/0-3-8

Max Horz 2=46(LC 8)

Max Uplift 3=-5(LC 5), 4=-7(LC 1), 2=-96(LC 8) Max Grav 3=13(LC 13), 4=20(LC 8), 2=213(LC 1)

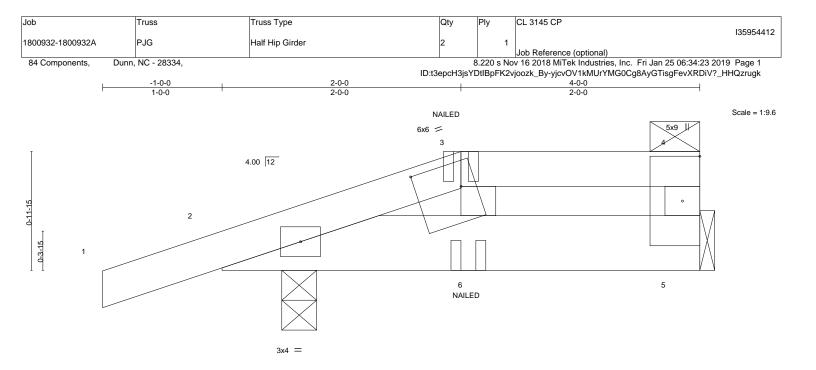
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 3, 7 lb uplift at joint 4 and 96 lb uplift at joint 2.







	0-6-0	2-0-0			4-0-0		
	0-6-0	1-6-0	l .	I	2-0-0		I .
Plate Offsets (X,Y) [3:0-4-8,0-2-8], [4:0-	0-0,0-1-12], [5:0-0-0	0,0-1-12], [6:0-1-11,0-0-9]					
LOADING (psf) SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP
TCLL 20.0 Plate Grip DC	L 1.15	TC 0.09	Vert(LL)	-0.00 6	>999 240	MT20	244/190
TCDL 10.0 Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.00 6	>999 180		
BCLL 0.0 * Rep Stress In	cr NO	WB 0.01	Horz(CT)	0.00 5	n/a n/a		
BCDL 10.0 Code IRC201	5/TPI2014	Matrix-MP	, ,			Weight: 18 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS. (lb/size) 5=102/Mechanical, 2=267/0-3-8

Max Horz 2=32(LC 5)

Max Uplift 5=-22(LC 5), 2=-99(LC 8) Max Grav 5=107(LC 18), 2=267(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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 5 and 99 lb uplift at
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 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) Standard

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

Vert: 1-3=-60, 3-4=-60, 2-5=-20



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

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

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

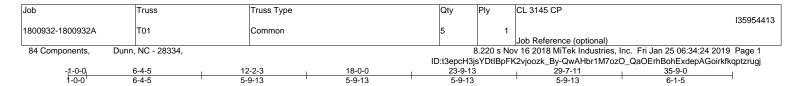
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

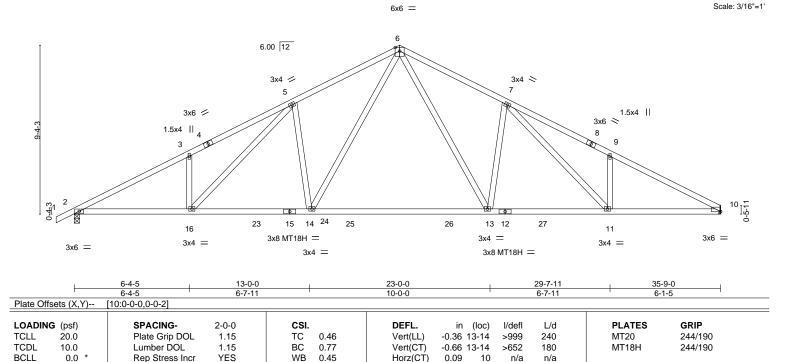
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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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Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.







BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

TOP CHORD 2x4 SP No.2 2x4 SP No.1 BOT CHORD

10.0

WEBS 2x4 SP No.3

REACTIONS. (lb/size) 2=1491/0-3-8, 10=1429/Mechanical

Max Horz 2=186(LC 7)

Max Uplift 2=-343(LC 8), 10=-296(LC 8) Max Grav 2=1491(LC 1), 10=1431(LC 14)

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

Code IRC2015/TPI2014

TOP CHORD 2-3=-2745/578, 3-5=-2774/712, 5-6=-2215/619, 6-7=-2199/618, 7-9=-2660/697,

9-10=-2650/566

2-16=-441/2526, 14-16=-279/2077, 13-14=-131/1505, 11-13=-277/1966, 10-11=-428/2296 BOT CHORD WEBS

6-13=-215/992, 7-13=-567/299, 7-11=-219/588, 9-11=-331/224, 6-14=-219/1022,

5-14=-593/303, 5-16=-235/684, 3-16=-367/230

NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-AS

- 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, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 343 lb uplift at joint 2 and 296 lb uplift at
- 8) 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.



Weight: 195 lb

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

FT = 20%

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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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.



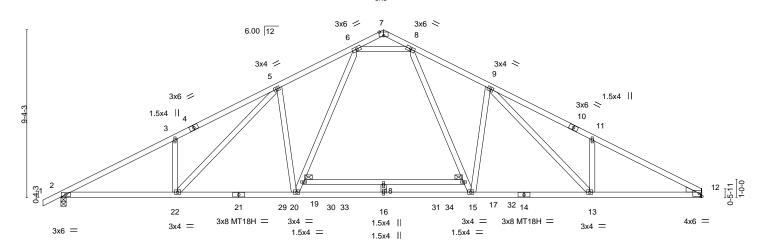
Job Truss Truss Type Qty CL 3145 CP 135954414 1800932-1800932A T01A **ROOF TRUSS** Job Reference (optional) 84 Components, Dunn, NC - 28334, 8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Jan 25 06:34:25 2019 Page 1

ID:t3epcH3jsYDtlBpFK2vjoozk_By-u6kfoB2_u55Fca9boZDQLun2x26S?DB?yITOLJzrugi

18-0-0 19-6-0 23-9-13 35-9-0 -1-0-0 1-0-0 6-4-5 5-9-13 4-3-13 1-6-0 1-6-0 4-3-13 5-9-13 6-1-5

3x6 =

Scale: 3/16"=1'



6-4-5 6-7-11 Plate Offsets (X,Y)--[7:0-3-0,Edge] 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 0.75 Vert(LL) -0.50 >863 240 MT20 244/190 18 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.96 Vert(CT) -0.93 18 >461 180 MT18H 244/190 **BCLL** 0.0 Rep Stress Incr NO WB 0.56 0.12 12 Horz(CT) n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Weight: 210 lb FT = 20%Matrix-AS

BRACING-

TOP CHORD

BOT CHORD

23-0-0

29-7-11

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

35-9-0

18-0-0

LUMBER-

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

14-21: 2x4 SP DSS

2x4 SP No.3 **WEBS**

WEDGE

Right: 2x4 SP No.3

REACTIONS. (lb/size) 2=1620/0-3-8, 12=1560/Mechanical

Max Horz 2=186(LC 7)

Max Uplift 2=-291(LC 8), 12=-243(LC 8) Max Grav 2=1710(LC 14), 12=1656(LC 15)

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

TOP CHORD 2-3=-3213/467, 3-5=-3256/605, 5-6=-2726/480, 8-9=-2705/479, 9-11=-3120/594,

11-12=-3112/459

BOT CHORD 2-22=-342/2957, 20-22=-168/2535, 16-20=-50/1931, 15-16=-50/1931, 13-15=-167/2421,

12-13=-333/2707

WEBS 8-17=-123/1175, 15-17=-170/1086, 9-15=-584/281, 9-13=-242/554, 11-13=-330/233, 5-20=-618/284, 5-22=-253/663, 3-22=-377/237, 19-20=-172/1126, 6-19=-125/1215,

13-0-0

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 291 lb uplift at joint 2 and 243 lb uplift at joint 12.
- 8) 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.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 75 lb down and 6 lb up at 18-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

CAARIGASE(S)geStandard



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design Valid for use only with release controlled in the controlle



Job	Truss	Truss Type	Qty	Ply	CL 3145 CP
4000000 40000004	T04.4	POOF TRUES	6		135954414
1800932-1800932A	T01A	ROOF TRUSS	6	1	Job Reference (optional)

84 Components, Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Jan 25 06:34:25 2019 Page 2 ID:t3epcH3jsYDtlBpFK2vjoozk_By-u6kfoB2_u55Fca9boZDQLun2x26S?DB?yITOLJzrugi

LOAD CASE(S) Standard

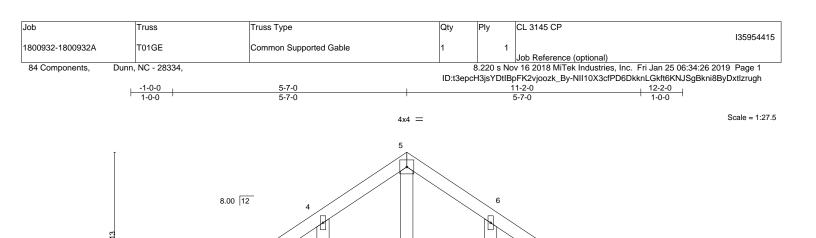
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-7=-60, 7-12=-60, 23-26=-20, 17-19=-20 Concentrated Loads (lb)

Vert: 16=-75(F)





3x7 || 3x7 ||

12

10

3x4 =

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

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

11

13

Plate Offsets (X,Y)	[2:0-0-0,0-0-12], [2:0-0-15,0-4-5], [8:Edg	e,0-0-12], [8:0-0-15,0-4-5]

 $\otimes \otimes \otimes$

3x4 =

3

14

LOADIN	\(\(\)	SPACING-	2-0-0	CSI.	0.07	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC TC	0.07	Vert(LL)	-0.00	9	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	9	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	12014	Matri	x-S						Weight: 57 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

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

REACTIONS. All bearings 11-2-0.

Max Horz 2=-102(LC 6) (lb) -

0-6-3

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10

Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; B=45ft; L=45ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber 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 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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, 8, 13, 14, 11,
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 8.



0-6-3

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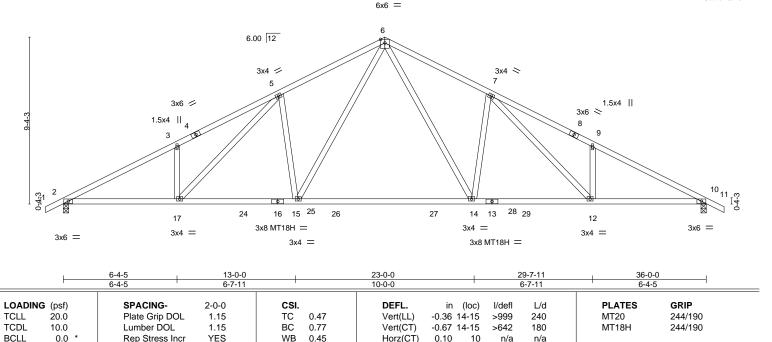
ANSITP1 Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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





Scale: 3/16"=1'



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

2x4 SP No.2 TOP CHORD 2x4 SP No.1

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

10.0

REACTIONS.

2=1500/0-3-8, 10=1500/0-3-8 (lb/size) Max Horz 2=188(LC 7) Max Uplift 2=-344(LC 8), 10=-344(LC 8)

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

Code IRC2015/TPI2014

TOP CHORD 2-3=-2768/581, 3-5=-2797/715, 5-6=-2240/622, 6-7=-2240/622, 7-9=-2798/715,

9-10=-2769/581

2-17=-409/2555, 15-17=-248/2106, 14-15=-100/1534, 12-14=-248/2009, 10-12=-409/2414 BOT CHORD WEBS

6-14=-219/1022, 7-14=-592/303, 7-12=-235/684, 9-12=-367/230, 6-15=-219/1022,

5-15=-592/303, 5-17=-235/684, 3-17=-367/230

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-AS

- 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.
- * 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 100 lb uplift at joint(s) except (jt=lb) 2=344, 10=344.
- 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.



Weight: 197 lb

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

FT = 20%

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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 CL 3145 CP 135954417 1800932-1800932A T02GE Common Supported Gable Job Reference (optional) 84 Components, Dunn, NC - 28334, 8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Jan 25 06:34:28 2019 Page 1 ID:t3epcH3jsYDtlBpFK2vjoozk_By-JhQoRC4sB0TqT1uAThm7zXPjoGMfChBRfGi2yezrugf 12-1-8 1-0-0 5-6-12 5-6-12 1-0-0 Scale = 1:27.4 4x4 =

> 8.00 12 3 8 0-6-3 0-6-3 \bowtie 13 12 10 14 11 3x4 = 3x4 =3x7 || 3x7 ||

Plate Offsets (X,Y)-- [2:0-0-0,0-0-12], [2:0-0-15,0-4-5], [8:0-0-0,0-0-12], [8:0-0-15,0-4-5]

LOADIN	G (psf)	SPACING- 2-0	0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.	.15	TC	0.07	Vert(LL)	-0.00	9	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL 1.	.15	BC	0.03	Vert(CT)	-0.00	9	n/r	90		
BCLL	0.0 *	Rep Stress Incr Y	ES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI201	14	Matri	x-S						Weight: 57 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

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

REACTIONS. All bearings 11-1-8.

Max Horz 2=-102(LC 6) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10

Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; B=45ft; L=45ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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, 8, 13, 14, 11,
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 8.



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

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.

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 CL 3145 CP 135954418 1800932-1800932A T03 GABLE Job Reference (optional)
8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Jan 25 06:34:29 2019 Page 1 84 Components, Dunn, NC - 28334, ID:t3epcH3jsYDtlBpFK2vjoozk_By-ntzAeY5UxKbh4BTM1OHMVkylafT7x1jatwRbU4zruge

18-0-0 23-9-13 35-9-0 -<u>1-0-0</u> 1-0-0 6-4-5 5-9-13 5-9-13 5-9-13 5-9-13 6-1-5

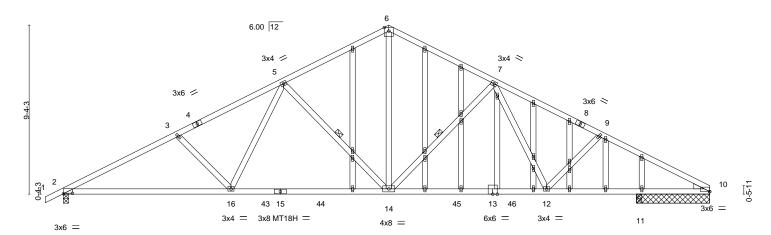
> Scale: 3/16"=1' 6x6 =

> > Structural wood sheathing directly applied or 2-10-4 oc purlins.

7-14, 5-14

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

1 Row at midpt



26-8-12 31-8-8 35-9-0 18-0-0 8-8-12 4-11-12 Plate Offsets (X,Y)--[2:0-6-0,0-0-6], [10:0-0-0,0-0-2], [13:0-0-0,0-1-12], [26:0-1-12,0-0-0] LOADING (psf) SPACING-DEFL. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.64 Vert(LL) -0.24 12-14 >999 240 MT20 244/190 -0.50 12-14 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.97 Vert(CT) >772 180 MT18H 244/190 **BCLL** 0.0 Rep Stress Incr YES WB 0.46 Horz(CT) 0.12 10 n/a n/a Code IRC2015/TPI2014 BCDL Matrix-MS Weight: 245 lb FT = 20%10.0

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

WEDGE Right: 2x4 SP No.3

REACTIONS. All bearings 4-0-8 except (jt=length) 2=0-3-8.

Max Horz 2=186(LC 7) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 2=-344(LC 8), 10=-308(LC 8) All reactions 250 lb or less at joint(s) 11, 11 except 2=1477(LC 1), Max Grav 10=1313(LC 1), 10=1313(LC 1)

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

TOP CHORD 2-3=-2653/602, 3-5=-2408/573, 5-6=-1662/487, 6-7=-1663/487, 7-9=-2272/573,

2-16=-462/2385, 14-16=-295/1909, 12-14=-296/1815, 11-12=-461/2164, 10-11=-461/2164

WEBS 6-14=-273/1123, 7-14=-624/261, 7-12=-53/422, 9-12=-293/206, 5-14=-690/260,

5-16=-52/552, 3-16=-363/210

NOTES-

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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 MT20 plates unless otherwise indicated.
- 5) All plates are 1.5x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 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 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 344 lb uplift at joint 2, 308 lb uplift at joint 10 and 308 lb uplift at joint 10.



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.





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18-0-0 -<u>1-0-0</u> 1-0-0 18-0-0 17-9-0

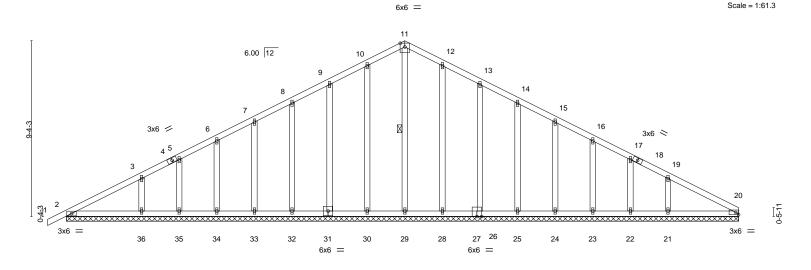


Plate Offsets (X,Y)--[26:0-1-12,0-0-0], [27:0-0-0,0-1-12] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.16 Vert(LL) -0.00 120 MT20 244/190 n/r **TCDL** 10.0 Lumber DOL 1.15 ВС 0.12 Vert(CT) 0.01 n/r 90 **BCLL** 0.0 Rep Stress Incr YES WB 0.16 Horz(CT) 0.01 20 n/a n/a Code IRC2015/TPI2014 BCDL Matrix-S Weight: 228 lb FT = 20%10.0

35-9-0

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 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.3 WEBS 1 Row at midpt 11-29

REACTIONS. All bearings 35-9-0.

(lb) -Max Horz 2=187(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 2, 30, 31, 32, 33, 34, 35, 36, 28, 26, 25, 24, 23, 22 except

21=-109(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 2, 29, 30, 31, 32, 33, 34, 35, 28, 26, 25, 24, 23, 22, 20

except 36=310(LC 17), 21=305(LC 18)

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

TOP CHORD 10-11=-61/251, 11-12=-54/251

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; B=45ft; L=45ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 30, 31, 32, 33, 34, 35, 36, 28, 26, 25, 24, 23, 22 except (jt=lb) 21=109.

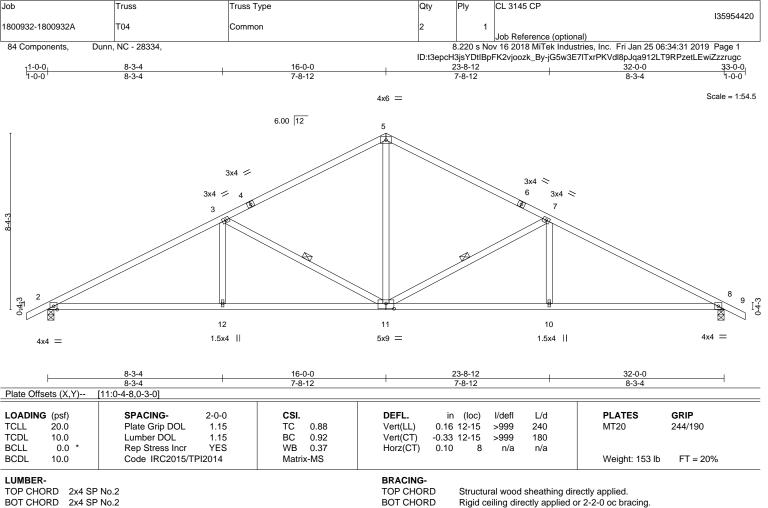


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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WEBS

1 Row at midpt

7-11, 3-11

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

REACTIONS. (lb/size) 2=1340/0-3-8, 8=1340/0-3-8

Max Horz 2=-168(LC 6)

Max Uplift 2=-311(LC 8), 8=-311(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-2322/500, 3-5=-1568/419, 5-7=-1568/419, 7-8=-2322/500 TOP CHORD **BOT CHORD** 2-12=-317/2000, 11-12=-317/2000, 10-11=-317/2000, 8-10=-317/2000 WEBS 5-11=-163/893, 7-11=-811/276, 7-10=0/345, 3-11=-811/276, 3-12=0/345

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber 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) except (jt=lb) 2=311. 8=311.





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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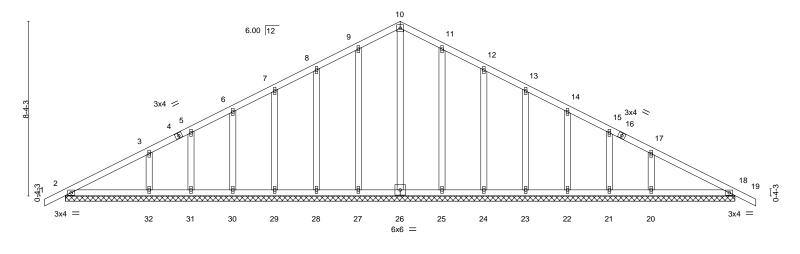


33-0-0 1-0-0 1-0-0 32-0-0 16-0-0 16-0-0

> 4x4 = Scale = 1:55.1

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

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



	'			32-0-0					· · · · · · · · · · · · · · · · · · ·
LOADING	VI /	SPACING- 2-0-0	CSI.	DEFL. ir	(/	I/defl	L/d	_	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL) 0.00	19	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) 0.01	19	n/r	90		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.18	Horz(CT) 0.01	18	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 193 lb	FT = 20%

BOT CHORD

32-0-0

LUMBER-BRACING-TOP CHORD

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

REACTIONS. All bearings 32-0-0. (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 27, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21, 20, 18 All reactions 250 lb or less at joint(s) 2, 26, 27, 28, 29, 30, 31, 25, 24, 23, 22, 21, 18 except

32=310(LC 17), 20=310(LC 18)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; B=45ft; L=45ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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, 27, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21, 20, 18.



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 CL 3145 CP 135954422 1800932-1800932A T05 COMMON Job Reference (optional) 84 Components, Dunn, NC 28334

16-0-0

2-4-0

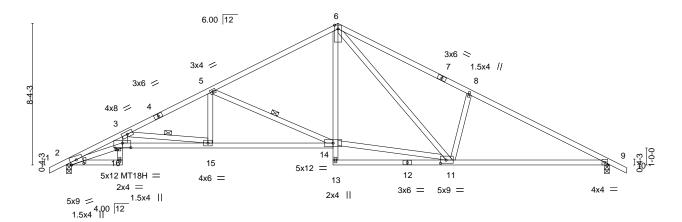
8.220 s Jan 5 2019 MiTek Industries, Inc. Fri Jan 25 15:44:22 2019 Page 1 ID:t3epcH3jsYDtlBpFK2vjoozk_By-Ab_Nvewj4tg3YpalK_E422w?ELyXliVscU5x_Fzrmd7 23-8-12 32-0-0 33-0-0 1-0-0 7-8-12 8-3-4

Scale = 1:67.9 5x12 MT18H ||

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

1 Row at midpt



	3-3-8	8-5-12	13-8-0	15-8-8		2-6-12	1	32-0-0		
	3-3-8	5-2-4	5-2-4	2-0-8	· 6	-10-4	<u> </u>	9-5-4	· · · · · · · · · · · · · · · · · · ·	
Plate Offsets (X,Y)	- [2:0-1-4,0-8-12], [11:0-3	3-15,0-2-4], [16:0	-6-0,0-3-4], [16:0	-1-9,0-1-2]						
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 0.7	1	Vert(LL)	-0.25 15-16	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.8	7	Vert(CT)	-0.51 15-16	>753	180	MT18H	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.5		Horz(CT)	0.26 9	n/a	n/a		
BCDL 10.0	Code IRC2015/	TPI2014	Matrix-AS						Weight: 177 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

1-0-0

3-3-8

3-3-8

8-5-12

5-2-4

13-8-0

5-2-4

3-16,6-13: 2x4 SP No.3, 14-16,2-16: 2x4 SP DSS

WEBS 2x4 SP No.3

REACTIONS. (lb/size) 2=1340/0-3-8, 9=1340/0-3-8

Max Horz 2=168(LC 7)

Max Uplift 2=-311(LC 8), 9=-311(LC 8)

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

TOP CHORD 2-3=-5206/993, 3-4=-2861/577, 4-5=-2753/595, 5-6=-1776/439, 6-7=-2067/606,

7-8=-2182/568, 8-9=-2272/506

BOT CHORD 3-16=-184/1323, 15-16=-843/4765, 14-15=-383/2544, 6-14=-62/787, 9-11=-322/1977,

WEBS 3-15=-2246/466, 5-15=0/569, 5-14=-1148/314, 11-14=-86/1420, 6-11=-233/672,

8-11=-500/295

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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.
- 6) Bearing at joint(s) 2 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 capable of withstanding 311 lb uplift at joint 2 and 311 lb uplift at ioint 9.
- 8) 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.

LOAD CASE(S) Standard



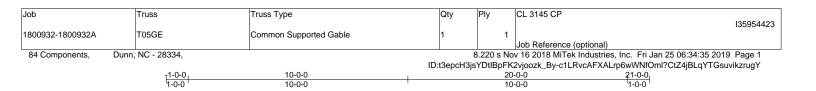
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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ANSITTPI 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.





3x4 =

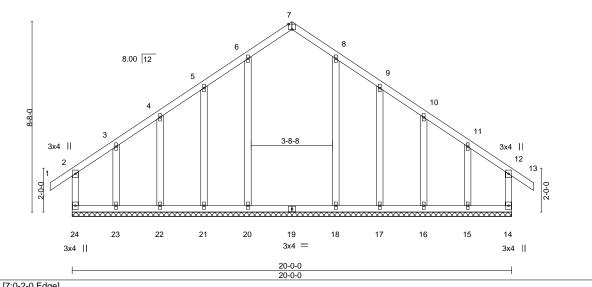


Plate Offsets (X,Y)	[7:0-2-0,Edge]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.29	Vert(LL) -0.00 13 n/r 120	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(CT) -0.00 12 n/r 90	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.18	Horz(CT) -0.00 14 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R		Weight: 131 lb FT = 20%

LUMBER-

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

except end verticals.

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

REACTIONS. All bearings 20-0-0.

Max Horz 24=237(LC 7) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 24, 14, 22, 16 except 21=-167(LC 8), 23=-162(LC 8), 17=-167(LC

8), 15=-162(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 21, 22, 17, 16, 15 except 24=263(LC 14), 14=257(LC 13),

20=334(LC 13), 23=252(LC 6), 18=331(LC 14)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; B=45ft; L=45ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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 1.5x4 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.
- 9) * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 14, 22, 16 except (jt=lb) 21=167, 23=162, 17=167, 15=162.



Scale = 1:52.4



M WARNING - 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 Ply CL 3145 CP 135954424 1800932-1800932A T06 Common Job Reference (optional)
8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Jan 25 06:34:35 2019 Page 1 84 Components, Dunn, NC - 28334, ID:t3epcH3jsYDtIBpFK2vjoozk_By-c1LRvcAFXALrp6wWNfOml?CtV4YxLoxTGsuvikzrugY 21-0-0 1-0-0 T-0-0 1-0-0 5-1-12 5-1-12 14-10-4 20-0-0 4-10-4 4-10-4 5-1-12 Scale = 1:51.7 4x6 || 8.00 12 1.5x4 || 1.5x4 || 5 3 3x6 / 3x6 N 6 12 13 10 14 11 9 3x8 MT18H = 1.5x4 || 1.5x4 | 4x8 = 4x8

5-0-0 10-0-0 5-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) **TCLL** Plate Grip DOL 1.15 Vert(LL) -0.33 >724 240 244/190 20.0 TC 0.29 9-11 MT20 244/190 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.88 Vert(CT) -0.52 9-11 >453 180 MT18H **BCLL** 0.0 Rep Stress Incr YES WB 0.29 Horz(CT) 0.01 8 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-MS Weight: 131 lb FT = 20%

15-0-0

BRACING-

TOP CHORD

BOT CHORD

20-0-0

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

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

LUMBER-

REACTIONS.

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

WEBS

12=857/0-3-8, 8=857/0-3-8 (lb/size) Max Horz 12=237(LC 7)

Max Uplift 12=-216(LC 8), 8=-216(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-849/208, 3-4=-898/377, 4-5=-898/377, 5-6=-849/208, 2-12=-847/229,

6-8=-847/229 BOT CHORD 9-11=0/538

WEBS 4-9=-160/468, 5-9=-338/246, 4-11=-160/468, 3-11=-339/246, 2-11=-8/697, 6-9=-8/699

5-0-0

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=216, 8=216.

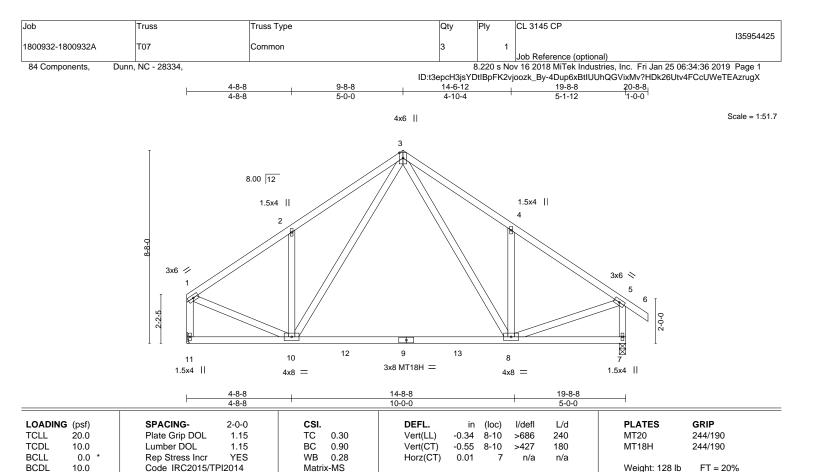


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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters 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-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

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

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

REACTIONS. (lb/size) 11=775/Mechanical, 7=847/0-3-8 Max Horz 11=-235(LC 6) Max Uplift 11=-163(LC 8), 7=-211(LC 8)

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

TOP CHORD 1-2=-808/190, 2-3=-872/363, 3-4=-889/371, 4-5=-841/203, 1-11=-786/171,

5-7=-840/224

BOT CHORD 8-10=0/527

WEBS 2-10=-343/252, 3-10=-146/435, 3-8=-160/475, 4-8=-338/246, 1-10=-52/691, 5-8=-2/692

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=163, 7=211.



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

Rigid ceiling directly applied or 6-0-0 oc bracing.

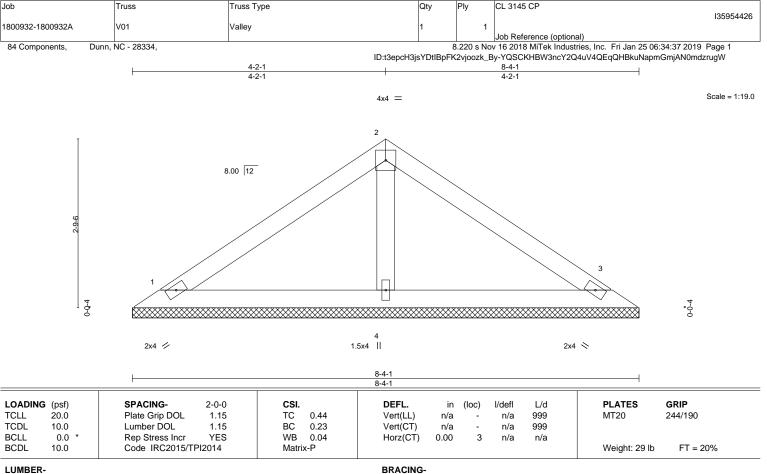
except end verticals.

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BOT CHORD

LUMBER-TOP CHORD

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

BOT CHORD OTHERS 2x4 SP No.3

REACTIONS. 1=158/8-4-1, 3=158/8-4-1, 4=274/8-4-1 (lb/size)

Max Horz 1=-57(LC 6)

Max Uplift 1=-56(LC 8), 3=-56(LC 8), 4=-11(LC 8)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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, 4.



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

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

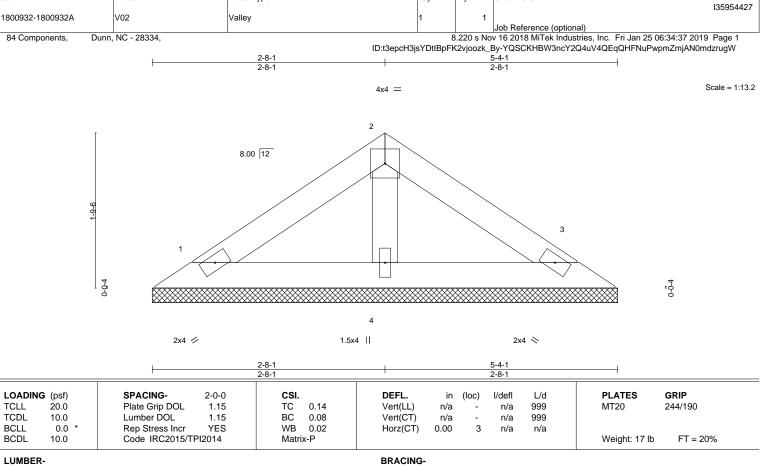


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BOT CHORD

Qty

Ply

CL 3145 CP

Structural wood sheathing directly applied or 5-4-1 oc purlins.

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

Job

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

2x4 SP No.3 **WEBS**

REACTIONS. 1=94/5-4-1, 3=94/5-4-1, 4=163/5-4-1 (lb/size)

Max Horz 1=-34(LC 6)

Truss

Truss Type

Max Uplift 1=-33(LC 8), 3=-33(LC 8), 4=-7(LC 8)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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, 4.



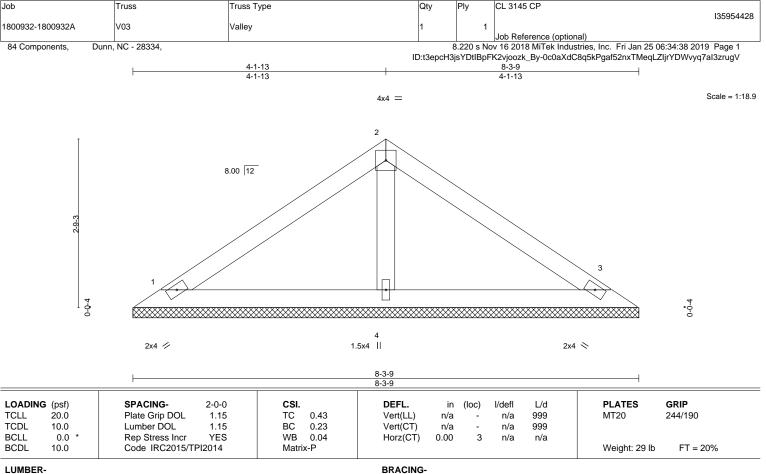


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BOT CHORD

LUMBER-

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

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

REACTIONS. 1=157/8-3-9, 3=157/8-3-9, 4=273/8-3-9 (lb/size) Max Horz 1=-57(LC 6)

Max Uplift 1=-55(LC 8), 3=-55(LC 8), 4=-11(LC 8)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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, 4.



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

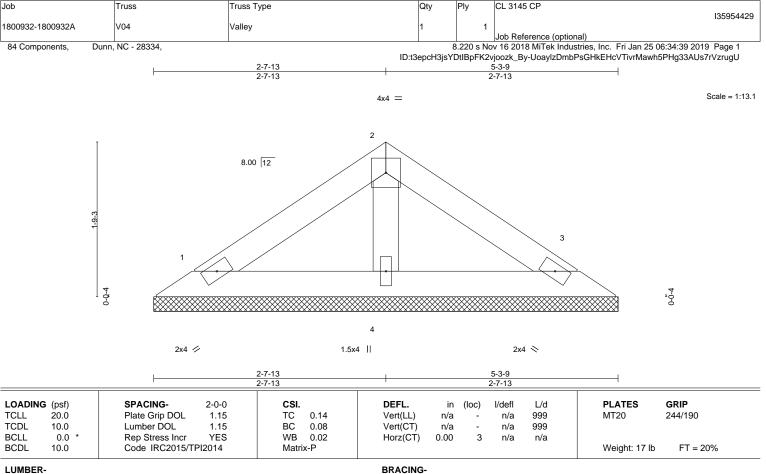
Rigid ceiling directly applied or 10-0-0 oc bracing

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BOT CHORD

TOP CHORD

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

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

REACTIONS. 1=93/5-3-9, 3=93/5-3-9, 4=161/5-3-9 (lb/size) Max Horz 1=-34(LC 6)

Max Uplift 1=-33(LC 8), 3=-33(LC 8), 4=-7(LC 8)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=40ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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, 4.



Structural wood sheathing directly applied or 5-3-9 oc purlins.

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

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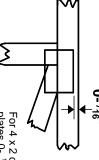


Symbols

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

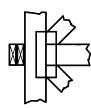
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

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

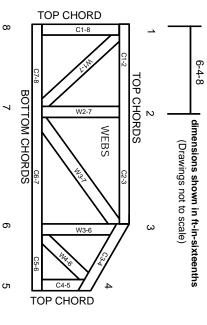
Industry Standards:

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

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- 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.