

Trenco 818 Soundside Rd Edenton, NC 27932

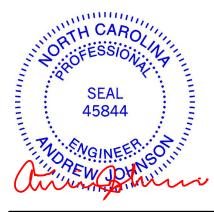
Re: 19503-19503A Pinehurst B Base

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: I35726037 thru I35726043

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

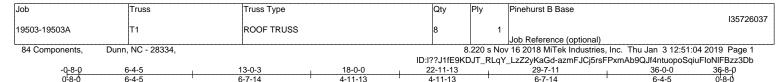
North Carolina COA: C-0844



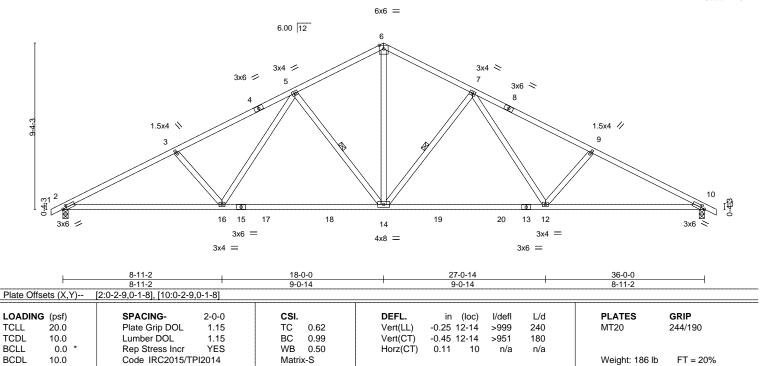
January 4,2019

Johnson, Andrew

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.



Scale = 1:64.7



BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

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

13-15: 2x4 SP No.1

WEBS 2x4 SP No.3

(lb/size) 2=1477/0-3-8, 10=1477/0-3-8 REACTIONS.

Max Horz 2=-122(LC 15)

Max Uplift 2=-50(LC 10), 10=-50(LC 11)

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

 $2\hbox{-}3\hbox{-}-2677/357,\ 3\hbox{-}5\hbox{-}-2445/352,\ 5\hbox{-}6\hbox{-}-1676/318,\ 6\hbox{-}7\hbox{-}-1676/318,\ 7\hbox{-}9\hbox{-}-2445/352,\ 5\hbox{-}6\hbox{-}-1676/318,\ 6\hbox{-}7\hbox{-}-1676/318,\ 7\hbox{-}9\hbox{-}-2445/352,\ 5\hbox{-}6\hbox{-}-1676/318,\ 6\hbox{-}7\hbox{-}-1676/318,\ 7\hbox{-}9\hbox{-}-2445/352,\ 5\hbox{-}6\hbox{-}-1676/318,\ 6\hbox{-}7\hbox{-}-1676/318,\ 7\hbox{-}9\hbox{-}-2445/352,\ 5\hbox{-}6\hbox{-}-1676/318,\ 7\hbox{-}9\hbox{-}-2445/352,\ 5\hbox{-}6\hbox{-}-1676/318,\ 7\hbox{-}9\hbox{-}-2445/352,\ 5\hbox{-}6\hbox{-}-1676/318,\ 7\hbox{-}9\hbox{-}-2445/352,\ 5\hbox{-}6\hbox{-}-1676/318,\ 7\hbox{-}9\hbox{-}-2445/352,\ 5\hbox{-}6\hbox{-}-1676/318,\ 7\hbox{-}9\hbox{-}-2445/352,\ 5\hbox{-}6\hbox{-}-1676/318,\ 7\hbox{-}9\hbox{-}-2445/352,\ 7\hbox{-}-2445/352,\ 7\hbox{-}-2445$ TOP CHORD

9-10=-2677/357

2-16=-236/2331, 14-16=-104/1811, 12-14=-104/1811, 10-12=-236/2331 BOT CHORD

WEBS 3-16=-360/181, 5-16=-30/561, 5-14=-638/186, 6-14=-189/1214, 7-14=-638/186,

7-12=-30/561, 9-12=-360/181

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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) 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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.



Structural wood sheathing directly applied or 2-9-1 oc purlins.

5-14, 7-14

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

1 Row at midpt

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

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Job Truss Truss Type Pinehurst B Base 135726038 19503-19503A T1A **ROOF TRUSS** Job Reference (optional) 84 Components, Dunn, NC - 28334, 8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jan 3 12:51:06 2019 Page 1 ID:I??J1fE9KDJT_RLqY_LzZ2yKaGd-WMt0kukMNTV7A3J_GrL79CzBgdUKIZYXm6ssJ4zz3DZ 18-0-0 19-6-0 29-7-11 36-0-0

1-6-0

1-6-0

5-0-0

5-1-11

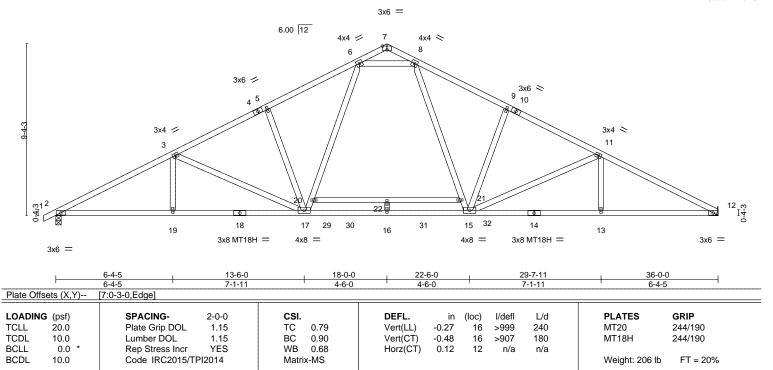
Structural wood sheathing directly applied or 2-8-3 oc purlins.

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

5-0-0

Scale = 1:62.6

6-4-5



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

-0-8-0 0-8-0

6-4-5

5-1-11

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

20-21: 2x4 SP No.2

REACTIONS. (lb/size) 2=1480/0-3-8, 12=1440/Mechanical

Max Horz 2=126(LC 10)

Max Uplift 2=-48(LC 10), 12=-39(LC 11) Max Grav 2=1515(LC 26), 12=1475(LC 29)

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

TOP CHORD 2-3=-2840/339, 3-5=-2255/324, 5-6=-2150/366, 8-9=-2151/367, 9-11=-2256/324,

11-12=-2844/342 2-19=-233/2477, 17-19=-233/2477, 16-17=-45/1520, 15-16=-45/1520, 13-15=-237/2481,

BOT CHORD WEBS

3-19=0/262, 11-13=0/262, 3-17=-581/116, 17-20=-88/776, 6-20=-77/755, 8-21=-78/756, 15-21=-89/777, 11-15=-585/119, 5-17=-344/146, 9-15=-344/146, 6-8=-1642/383

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-Č 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) All plates are MT20 plates unless otherwise indicated.
- 4) All plates are 1.5x4 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.
- * 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 1-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.
- 9) Load case(s) 25, 26, 27, 28, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss
- 10) MULTIPLE LOADCASES This design is the composite result of multiple load cases.
- 11) User moving load cases exist: Review the load cases for details.
- 12) 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 Except:

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

Continued on page 2

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

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



January 4,2019

Job	Truss	Truss Type	Qty	Ply	Pinehurst B Base	
19503-19503A	T1A	ROOF TRUSS	6	1	135726	6038
13300-13300A		INCOL TROOG			Job Reference (optional)	

84 Components,

Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jan 3 12:51:06 2019 Page 2 ID:I??J1fE9KDJT_RLqY_LzZ2yKaGd-WMt0kukMNTV7A3J_GrL79CzBgdUKIZYXm6ssJ4zz3DZ

LOAD CASE(S) Standard Except:

Uniform Loads (plf)

Vert: 1-7=-60, 7-12=-60, 23-26=-20

25) User defined: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

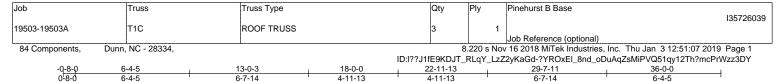
Vert: 1-7=-60(F), 7-12=-60(F), 23-26=-20(F)

- 26) 1st User Defined Moving Load User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-7=-60(F), 7-12=-60(F), 23-29=-20(F), 29-30=-50(F=-20), 26-30=-20(F)
- 27) 2nd User Defined Moving Load User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

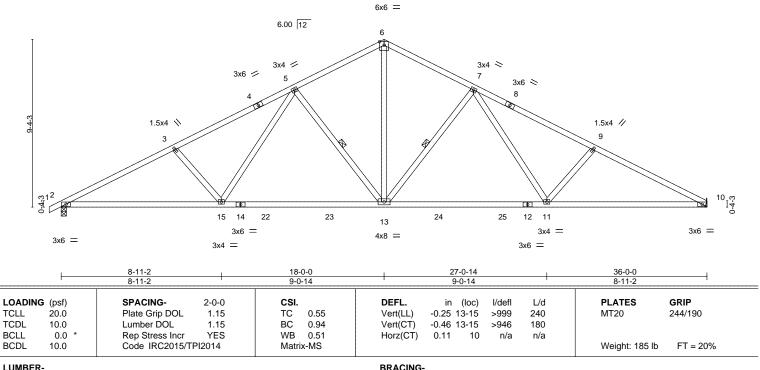
Vert: 1-7=-60(F), 7-12=-60(F), 23-30=-20(F), 16-30=-50(F=-20), 16-26=-20(F)

- 28) 3rd User Defined Moving Load User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-7=-60(F), 7-12=-60(F), 16-23=-20(F), 16-31=-50(F=-20), 26-31=-20(F)
- 29) 4th User Defined Moving Load User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-60(F), 7-12=-60(F), 23-31=-20(F), 31-32=-50(F=-20), 26-32=-20(F)



Scale: 3/16"=1'



TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SP No.2 *Except* 12-14: 2x4 SP No.1

WEBS 2x4 SP No.3

REACTIONS. (lb/size) 2=1480/0-3-8, 10=1440/Mechanical

Max Horz 2=126(LC 10)

Max Uplift 2=-48(LC 10), 10=-39(LC 11)

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

TOP CHORD $2\text{-}3\text{--}2726/365, 3\text{-}5\text{--}2497/360, 5\text{-}6\text{--}1704/322, 6\text{-}7\text{--}1704/322, 7\text{-}9\text{--}2499/363,}$

9-10=-2728/368

BOT CHORD $2\text{-}15\text{=-}258/2399,\ 13\text{-}15\text{=-}127/1844,\ 11\text{-}13\text{=-}127/1845,\ 10\text{-}11\text{=-}261/2402}$ WFBS

3-15=-389/176, 5-15=-35/580, 5-13=-651/191, 6-13=-194/1239, 7-13=-652/192,

7-11=-37/583, 9-11=-391/177

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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) 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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.



Structural wood sheathing directly applied or 2-11-8 oc purlins.

5-13, 7-13

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

1 Row at midpt

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

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Job	Truss	Truss Type	Qty	Ply	Pinehurst B Base		
					135726040		
19503-19503A	T1GE	ROOF TRUSS	2	1			
					Job Reference (optional)		
84 Components, Dunn, NC - 28334, 8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jan 3 12:51:09 2019 Page 1							
		ID:DBZhE	ID:DBZhE?Fn5WRKcaw05isC6FyKaGc-xxZ8MvnEgOti1X2Zy_uqnqbrCqi?V2T_S35WwPzz3DW				

18-0-0

L/d

120

90

n/a

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

(loc)

21

21

20

1 Row at midpt

0.00

0.01

0.01

I/defl

n/r

n/r

n/a

PLATES

Weight: 229 lb

MT20

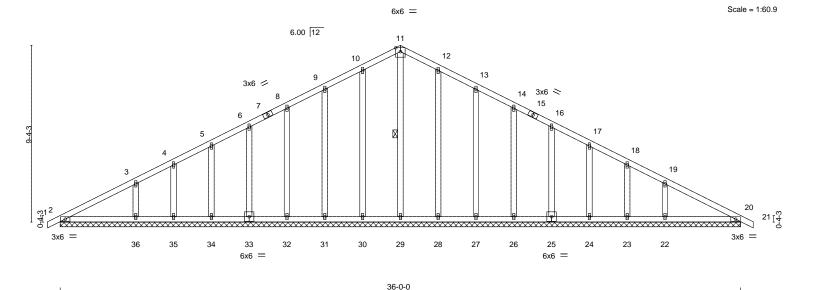
Structural wood sheathing directly applied or 6-0-0 oc purlins.

11-29

GRIP

244/190

FT = 20%



36-0-0

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

LOADING (psf)

TCLL

TCDL

BCLL

BCDL

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

20.0

10.0

0.0

10.0

OTHERS 2x4 SP No.3

All bearings 36-0-0.

(lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 30, 31, 32, 33, 34, 35, 36, 28, 27, 26, 25, 24, 23, 22 All reactions 250 lb or less at joint(s) 2, 29, 30, 31, 32, 33, 34, 35, 28, 27, 26, 25, 24, 23, 20 Max Grav except 36=320(LC 21), 22=320(LC 22)

CSI.

TC

ВС

WB

Matrix-S

0.20

0.13

0.16

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

18-0-0

NOTES-

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

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

2-0-0

1.15

1.15

NO

- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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) 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 1-0-0 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 100 lb uplift at joint(s) 2, 30, 31, 32, 33, 34, 35, 36, 28, 27, 26, 25, 24, 23, 22.

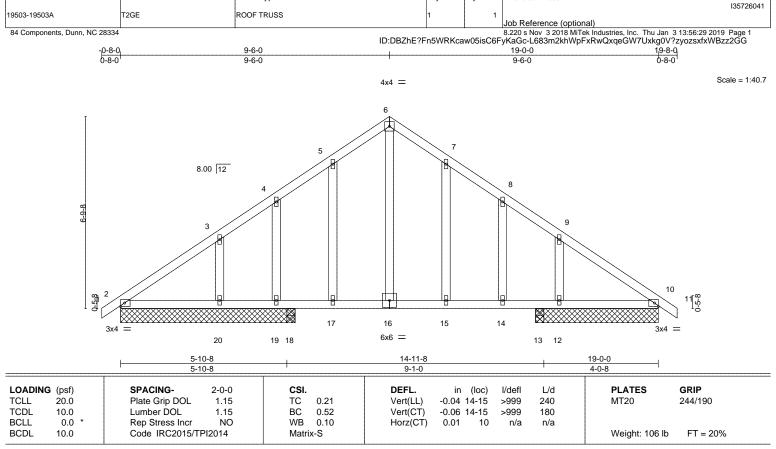


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Qty

Pinehurst B Base

LUMBER-

Job

Truss

Truss Type

2x4 SP No.2

TOP CHORD **BOT CHORD** 2x4 SP No.2 **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 6-2-0 except (jt=length) 12=4-4-0, 10=4-4-0, 18=0-3-8, 13=0-3-8.

(lb) - Max Horz 2=-131(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 19, 20, 12, 18, 13

All reactions 250 lb or less at joint(s) 12 except 2=387(LC 18), 20=267(LC 17), 10=366(LC 17), Max Grav 18=363(LC 17), 13=507(LC 18)

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

TOP CHORD 2-3=-506/0, 3-4=-467/2, 4-5=-461/26, 5-6=-423/61, 6-7=-395/59, 7-8=-442/18,

8-9=-457/0, 9-10=-462/0

BOT CHORD 2-20=0/372, 19-20=0/372, 18-19=0/372, 17-18=0/372, 16-17=0/372, 15-16=0/372,

14-15=0/372, 13-14=0/372, 12-13=0/372, 10-12=0/372

WEBS 6-16=-14/260

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 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) 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 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.
- 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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 20, 12, 18, 13.

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.

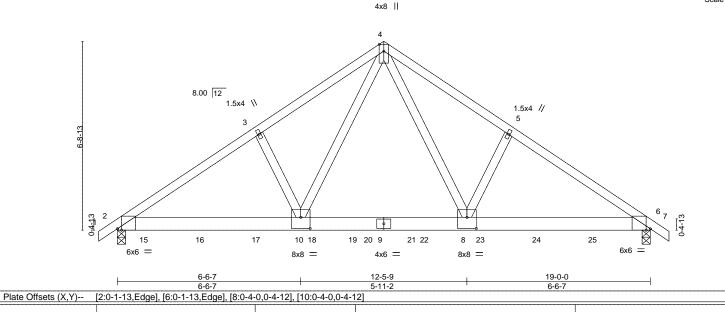
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Job Truss Truss Type Qty Pinehurst B Base 135726042 19503-19503A T2GR **ROOF TRUSS** Job Reference (optional) 8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jan 3 12:51:12 2019 Page 1 84 Components, Dunn, NC - 28334, ID:5zoC4NII9lym5CEnKXw8G5yKaGY-LWEH_xp7zJFGv_n8d6SXPTDCJ2bAiFyQ81JAXkzz3DT 19-8-0 0-8-0 9-6-0 4-5-5 13-11-5 19-0-0 5-0-11 4-5-5 5-0-11

Scale = 1:41.1



BRACING-

TOP CHORD

BOT CHORD

L/d LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defl **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.78 Vert(LL) -0.11 10-12 >999 240 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.68 Vert(CT) -0.23 10-12 >989 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.82 Horz(CT) 0.04 6 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-MS

Weight: 333 lb FT = 20%

GRIP

244/190

PLATES

MT20

Structural wood sheathing directly applied or 5-5-11 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

LUMBER-

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

REACTIONS. (lb/size) 2=7679/0-3-8, 6=6942/0-3-8

Max Horz 2=-131(LC 25)

Max Uplift 2=-264(LC 8), 6=-240(LC 9)

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

2-3=-9941/348, 3-4=-9852/399, 4-5=-9758/397, 5-6=-9849/346 TOP CHORD

BOT CHORD 2-10=-303/8280, 8-10=-140/5614, 6-8=-226/8195

WEBS 4-8=-245/5747, 5-8=-356/136, 4-10=-249/5925, 3-10=-378/136

NOTES-

1) 3-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 - 3 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=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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) 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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=264, 6=240.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1455 lb down and 59 lb up at 1-0-0, 1455 lb down and 59 lb up at 3-0-0, 1455 lb down and 59 lb up at 5-0-0, 1455 lb down and 59 lb up at 7-0-0, 1455 lb down and 59 lb up at 9-0-0, 1455 lb down and 59 lb up at 11-0-0, 1455 lb down and 59 lb up at 13-0-0, and 1420 lb down and 59 lb up at 15-0-0, and 1420 lb down and 59 lb up at 17-0-0 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: 1-4=-60, 4-7=-60, 2-6=-20



Continued on page 2



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 Pinehurst B Base 135726042 T2GR ROOF TRUSS 19503-19503A

Dunn, NC - 28334, 84 Components,

3 Job Reference (optional) 8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jan 3 12:51:12 2019 Page 2 ID:5zoC4NII9lym5CEnKXw8G5yKaGY-LWEH_xp7zJFGv_n8d6SXPTDCJ2bAiFyQ81JAXkzz3DT

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 15=-1455(F) 16=-1455(F) 17=-1455(F) 18=-1455(F) 20=-1455(F) 22=-1455(F) 23=-1455(F) 24=-1420(F) 25=-1420(F)



Job Reference (optional) Dunn, NC - 28334, 84 Components, 8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jan 3 12:51:13 2019 Page 1 ID:KD_TAaLoVN1N9Xm_vhwTpXyKaBK-piofCHqlkdN7W8MKBpzmxglX5R4WRuHZNh3j3Azz3DS 11-6-0 |-0-8-0 | 0-8-0 5-5-0 5-5-0 10-10-0 5-5-0 0-8-0 Scale = 1:26.1 4x4 = 4 1.5x4 1.5x4 8.00 12 10 9 8 3x4 = 3x4 == 1.5x4 1.5x4 1.5x4 10-10-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl Plate Grip DOL 1.15 Vert(LL) 0.00 120 244/190 TCLL 20.0 TC 0.14 n/r MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.09 Vert(CT) 0.01 90 n/r **BCLL** 0.0 Rep Stress Incr NO WB 0.04 Horz(CT) 0.00 6 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 50 lb FT = 20%

> **BRACING-**TOP CHORD

BOT CHORD

Qty

Pinehurst B Base

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

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

135726043

LUMBER-

REACTIONS.

Job

19503-19503A

Truss

T3GE

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

2x4 SP No.3 **OTHERS**

> All bearings 10-10-0. Max Horz 2=-78(LC 8) (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=288(LC 17), 8=287(LC 18)

Truss Type

ROOF TRUSS

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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) 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.
- 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 1-0-0 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.



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

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

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

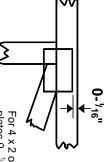


Symbols

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

4 × 4

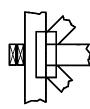
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



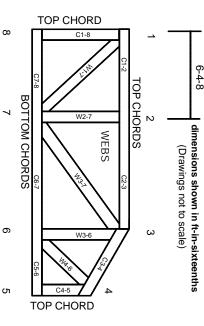
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

Industry Standards:

ANSI/TPI1: DSB-89:

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.

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

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.

 Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 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.
- 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.
- Do not cut or alter truss member or plate without prior

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.