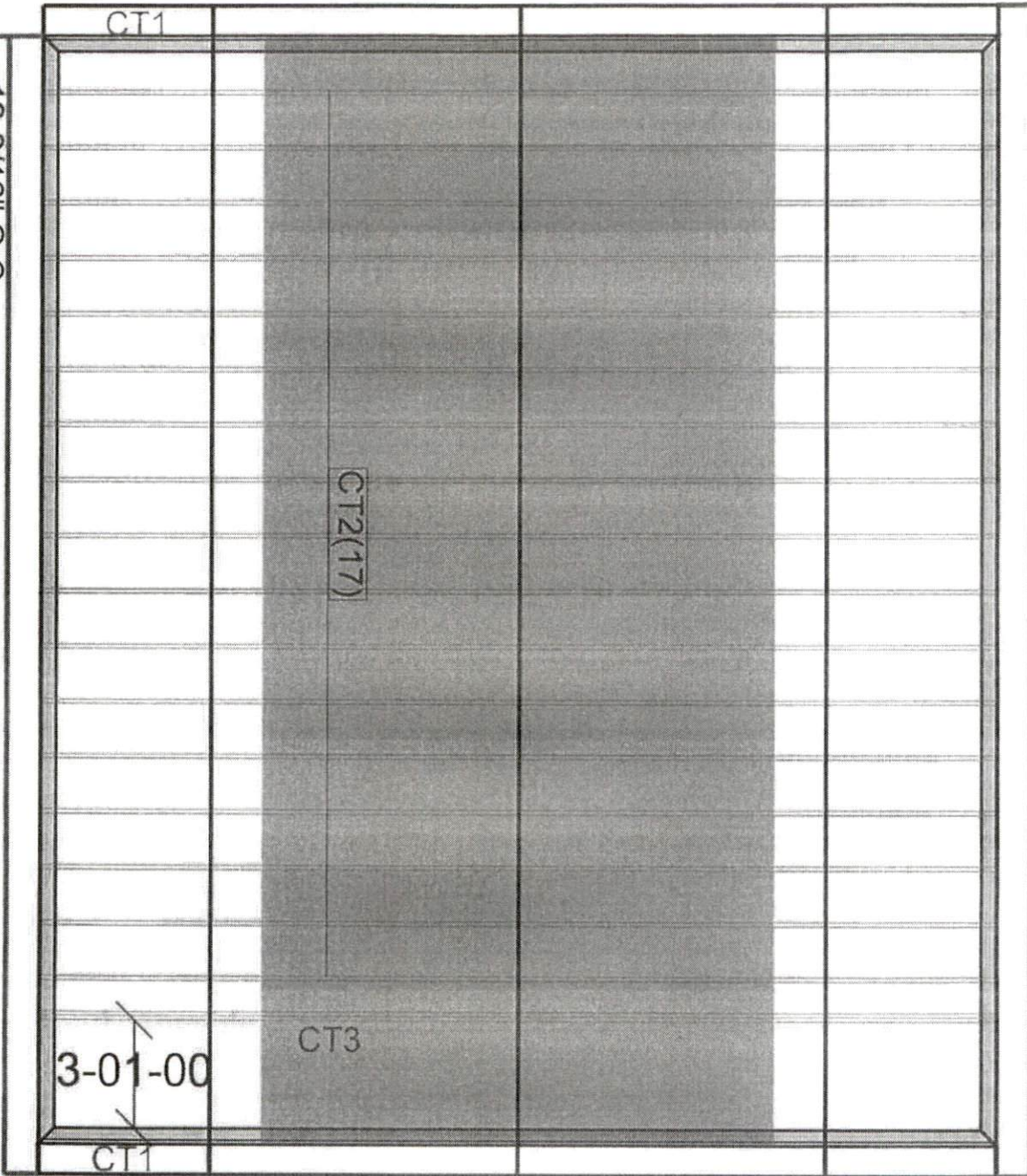


30-00-00

19-3/16" O.C.

32-00-00

32-00-00



28-00-00



10401 Chapel Hill Rd
 Morrisville, NC 27560
 Ph. 919-467-9988
 Fax. 919-481-3255

DO220311
 JOSH JERNIGAN
 3818 OLD STAGE RD
 ERWIN, NC

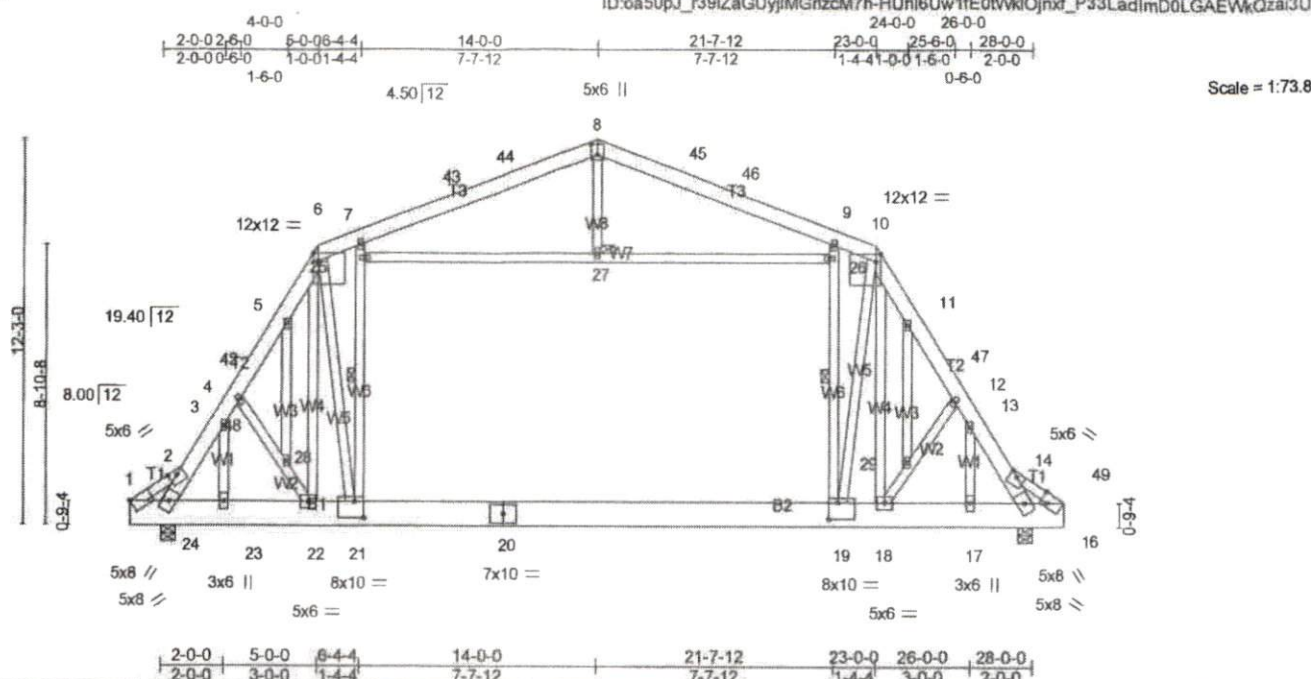


Plate Offsets (X,Y) - [6:Edge,0-3-0], [8:0-4-0,0-2-8], [10:Edge,0-3-0], [15:0-2-12,Edge], [19:0-3-8,0-6-4], [21:0-3-8,0-6-4]

LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	1-7-3	TC 0.42	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.82	Vert(LL) -0.28 19-21 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.67	Vert(CT) -0.35 19-21 >955 180		
BCLL 0.0	Rep Stress Incr YES	Matrix-MR	Horz(CT) 0.01 16 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014		Attic -0.22 19-21 844 360		
				Weight: 344 lb	FT = 6%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* T1: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x10 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W6,W7: 2x4 SP No.2	WEBS 1 Row at midpt 19-26, 21-25
	JOINTS 1 Brace at Jt(s): 27

REACTIONS. (lb/size) 24=901/0-5-8 (min. 0-1-8), 16=901/0-5-8 (min. 0-1-8)
 Max Horz 24=-121(LC 10)
 Max Grav 24=1274(LC 3), 16=1274(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-24=-993/2, 2-3=-1129/0, 3-4=-1412/0, 4-42=-1328/7, 5-42=-1312/17, 5-6=-1290/38,
 6-7=-945/48, 7-43=-751/53, 43-44=-717/67, 8-44=-665/76, 8-45=-665/76, 45-46=-717/67,
 9-46=-751/53, 9-10=-945/48, 10-11=-1290/38, 11-47=-1312/17, 12-47=-1328/6,
 12-13=-1412/0, 13-14=-1129/0, 14-16=-993/2
BOT CHORD 23-24=-59/656, 22-23=-60/651, 21-22=-8/734, 20-21=0/847, 19-20=0/847, 18-19=0/702,
 17-18=0/611, 16-17=0/617
WEBS 19-26=-304/366, 9-26=-280/384, 10-19=-50/945, 10-18=-452/141, 21-25=-304/366,
 7-25=-280/384, 6-21=-50/945, 6-22=-452/141, 3-23=-395/15, 13-17=-396/17

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 8) Ceiling dead load (5.0 psf) on member(s). 25-27, 26-27
 - 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 19-21
 - 10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 12) Attic room checked for L/360 deflection.

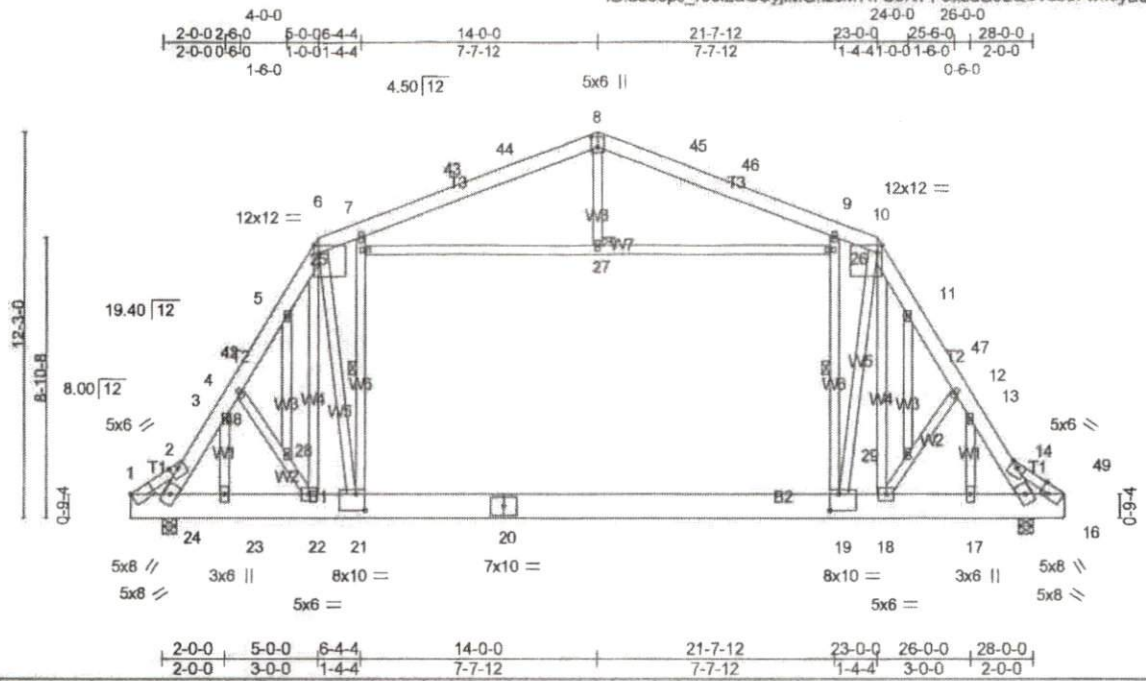
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	JOSH JERNIGAN
DO220311	CT1	ATTIC	2	1	

TRUSS BUILDERS, Truss Builders

Job Reference (optional)

8.600 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 16 12:49:46 2022 Page 1
 ID:oa50p_l_r39iZaGUyIMGrzcM7h-SbrvPF3x3dOJLQ5VsbFwk0ya0NtrBkzoNObdHzai3J



Scale = 1:73.8

Plate Offsets (X,Y) -- [6:Edge,0-3-0], [8:0-4-0,0-2-8], [10:Edge,0-3-0], [15:0-2-12,Edge], [19:0-3-8,0-6-4], [21:0-3-8,0-6-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	1-7-3	TC 0.42	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.82	Vert(LL) -0.28 19-21 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.67	Vert(CT) -0.35 19-21 >955 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR	Horz(CT) 0.01 16 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014		Attic -0.22 19-21 844 360		
				Weight: 344 lb	FT = 6%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* T1: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x10 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W6,W7: 2x4 SP No.2	WEBS 1 Row at midpt 19-26, 21-25
	JOINTS 1 Brace at Jt(s): 27

REACTIONS. (lb/size) 24=901/0-5-8 (min. 0-1-8), 16=901/0-5-8 (min. 0-1-8)
 Max Horz 24=-121(LC 10)
 Max Grav 24=1274(LC 3), 16=1274(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-24=-993/2, 2-3=-1129/0, 3-4=-1412/0, 4-42=-1328/7, 5-42=-1312/17, 5-6=-1290/38,
 6-7=-945/48, 7-43=-751/53, 43-44=-717/67, 8-44=-665/76, 8-45=-665/76, 45-46=-717/67,
 9-46=-751/53, 9-10=-945/48, 10-11=-1290/38, 11-47=-1312/17, 12-47=-1328/6,
 12-13=-1412/0, 13-14=-1129/0, 14-16=-993/2
 BOT CHORD 23-24=-59/656, 22-23=-60/651, 21-22=-8/734, 20-21=0/847, 19-20=0/847, 18-19=0/702,
 17-18=0/611, 16-17=0/617
 WEBS 19-26=-304/366, 9-26=-280/384, 10-19=-50/945, 10-18=-452/141, 21-25=-304/366,
 7-25=-280/384, 6-21=-50/945, 6-22=-452/141, 3-23=-395/15, 13-17=-396/17

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf, BCDL=6.0psf, h=25ft, Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 8) Ceiling dead load (5.0 psf) on member(s). 25-27, 26-27
 - 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 19-21
 - 10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

TRUSS BUILDERS, Truss Builders

Job Reference (optional)

8.500 s Jan 6 2022 Mitel Industries, Inc. Tue Mar 16 12:49:49 2022 Page 1
 ID:aa50pJ_r39iZaGUyjiMGrtzcm7h-IAx12H5pMYmuCup4XjByYMeTqDOW2YePULdFEczai3G

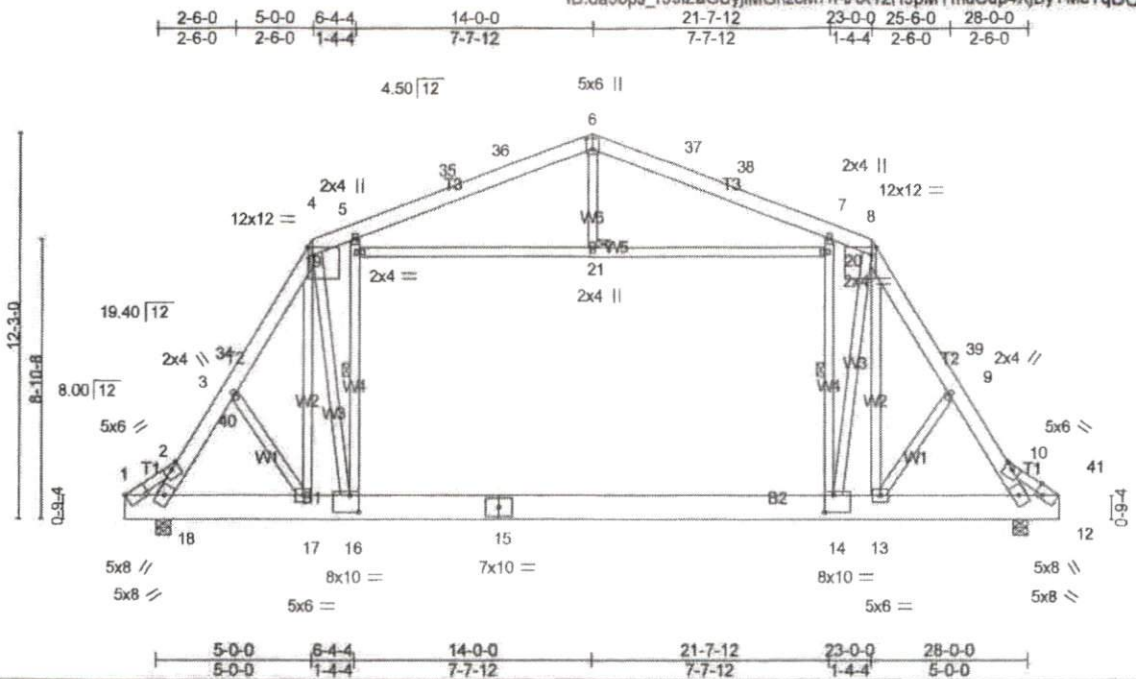


Plate Offsets (X,Y)-- [4:Edge,0-3-0], [6:0-4-0,0-2-8], [8:Edge,0-3-0], [11:0-2-12,Edge], [14:0-3-8,0-6-8], [16:0-3-8,0-6-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	1-7-3	TC 0.42	Vert(LL)	-0.29 14-16	>999	240	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.82	Vert(CT)	-0.36 14-16	>938	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.66	Horz(CT)	0.01 12	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR	Attic	-0.22 14-16	831	360		
BCDL 10.0	Code IBC2015/TPI2014						Weight: 322 lb	FT = 6%

LUMBER-
 TOP CHORD 2x6 SP No.2 *Except*
 T1: 2x4 SP No.2
 BOT CHORD 2x10 SP No.2
 WEBS 2x4 SP No.3 *Except*
 W4,W5: 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 14-20, 16-19
 JOINTS 1 Brace at Jt(s): 21

REACTIONS. (lb/size) 18=901/0-5-8 (min. 0-1-8), 12=901/0-5-8 (min. 0-1-8)
 Max Horz 18=-121(LC 8)
 Max Grav 18=1274(LC 3), 12=1274(LC 3)

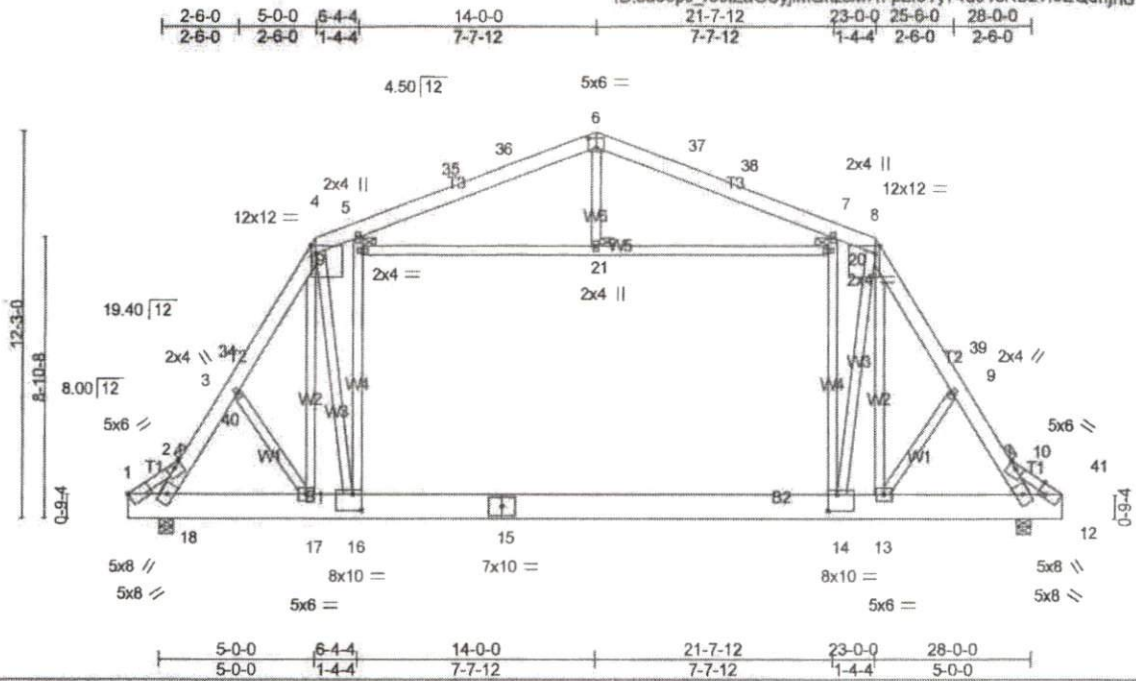
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-18=-1331/0, 2-3=-1369/0, 3-34=-1317/12, 4-34=-1235/32, 4-5=-935/48, 5-35=-751/52,
 35-36=-717/67, 6-36=-665/76, 6-37=-665/76, 37-38=-717/67, 7-38=-751/53, 7-8=-935/48,
 8-39=-1235/32, 9-39=-1317/12, 9-10=-1369/0, 10-12=-1331/0
 BOT CHORD 17-18=-477/03, 16-17=-9/722, 15-16=0/846, 14-15=0/846, 13-14=0/688, 12-13=0/673
 WEBS 14-20=-320/348, 7-20=-295/366, 8-14=-50/1029, 8-13=-535/119, 16-19=-320/348,
 5-19=-295/366, 4-16=-50/1029, 4-17=-535/119

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 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.
 - 7) Ceiling dead load (5.0 psf) on member(s). 19-21, 20-21
 - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-16
 - 9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 11) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

TRUSS BUILDERS, Truss Builders

8.500 s Jan 6 2022 MITek Industries, Inc. Tue Mar 15 12:49:51 2022 Page 1
ID:oa50pJ_r39iZaGUyJlMGrtzCM7h-pZfoTy74U91cRBzTf8EQdnjno13ZWTmixf6MIUzai3E



Scale = 1:73.8

Plate Offsets (X,Y)-- [4:Edge,0-3-0], [6:0-3-0,0-3-8], [8:Edge,0-3-0], [11:0-2-12,Edge], [14:0-3-8,0-6-4], [16:0-3-8,0-6-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	3-0-0	TC 0.45	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 15.0	Plate Grip DOL 1.15	BC 0.85	Vert(LL) -0.27 14-16 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.62	Vert(CT) -0.34 14-16 >997 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MR	Horz(CT) 0.01 12 n/a n/a		
BCDL 10.0	Code IBC2015/TPI2014		Attic -0.21 14-16 886 360	Weight: 643 lb	FT = 6%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
 T1: 2x4 SP No.2
BOT CHORD 2x10 SP No.2
WEBS 2x4 SP No.3 *Except*
 W4,W5: 2x4 SP No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
 (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 4, 6, 8, 19, 20, 21, 2, 10

REACTIONS. (lb/size) 18=1690/0-5-8 (min. 0-1-8), 12=1690/0-5-8 (min. 0-1-8)
 Max Horz 18=-228(LC 8)
 Max Grav 18=2391(LC 3), 12=2391(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-18=-2426/0, 2-3=-2562/0, 3-34=-2469/23, 4-34=-2315/60, 4-5=-1755/91, 5-35=-1410/98,
 35-36=-1345/125, 6-36=-1249/142, 6-37=-1249/142, 37-38=-1345/125, 7-38=-1410/99,
 7-8=-1755/91, 8-39=-2315/59, 9-39=-2469/23, 9-10=-2562/0, 10-12=-2426/0
BOT CHORD 17-18=-89/1324, 16-17=-18/1353, 15-16=0/1586, 14-15=0/1586, 13-14=0/1289,
 12-13=0/1266
WEBS 14-20=-600/653, 7-20=-555/687, 8-14=-94/1941, 8-13=-1013/218, 16-19=-600/653,
 5-19=-555/687, 4-16=-94/1941, 4-17=-1013/218, 19-21=-454/78, 20-21=-454/78

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft, Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1,10
 - Unbalanced snow loads have been considered for this design.
 - 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.
 - Ceiling dead load (5.0 psf) on member(s). 19-21, 20-21
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-16
 - This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L360 deflection.

LOAD CASE(S) Standard