MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

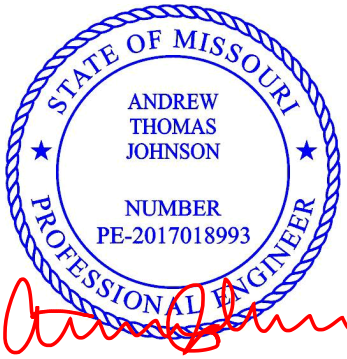
Re: MOBETTA
MoBETTA'S

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mid America MO.

Pages or sheets covered by this seal: I53978402 thru I53978446

My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: Engineering 001193



September 2,2022

Johnson, Andrew ,Engineer

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

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S I53978402
MOBETTA	B1	Blocking	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:26:26 2022 Page 1
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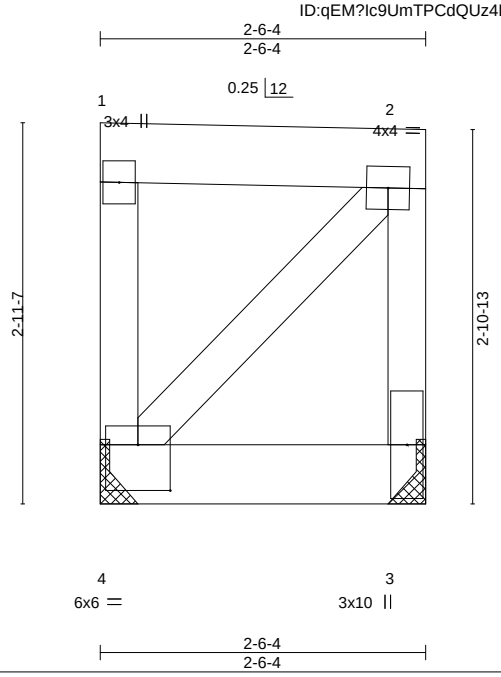

Scale = 1:17.8

Plate Offsets (X,Y)-- [4:0-3-0,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.00	4	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	4	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 22 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=Mechanical
Max Horz 4=-76(LC 46)
Max Uplift 4=-647(LC 45), 3=-668(LC 48)
Max Grav 4=677(LC 52), 3=703(LC 49)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-550/551, 2-3=-756/821
BOT CHORD 3-4=-534/538
WEBS 2-4=-945/952

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
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) except (jt=lb) 4=647, 3=668.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 2-6-4 for 250.0 plf.

September 2,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S I53978403
MOBETTA	B2	Blocking	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:26:28 2022 Page 1
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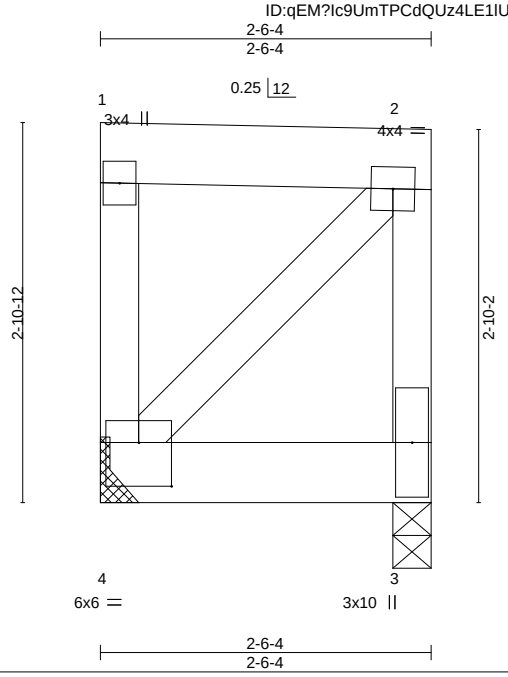


Scale = 1:17.6

Plate Offsets (X,Y)-- [4:0-3-0,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.00	4	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	4	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 22 lb	FT = 3%
BCDL	10.0											

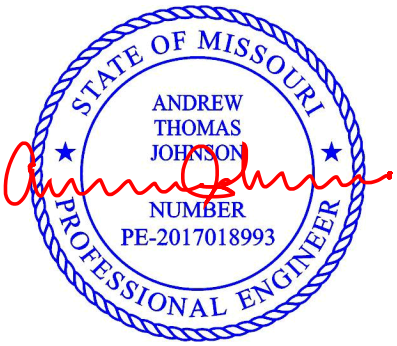
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-3-8
Max Horz 4=-74(LC 46)
Max Uplift 4=-631(LC 45), 3=-652(LC 48)
Max Grav 4=662(LC 52), 3=687(LC 49)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-549/550, 2-3=-738/803
BOT CHORD 3-4=-534/537
WEBS 2-4=-931/937

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
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) except (jt=lb) 4=631, 3=652.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 2-6-4 for 250.0 plf.



September 2,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	G1	ROOF SPECIAL GIRDER	1	3	I53978404

Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:26:31 2022 Page 1
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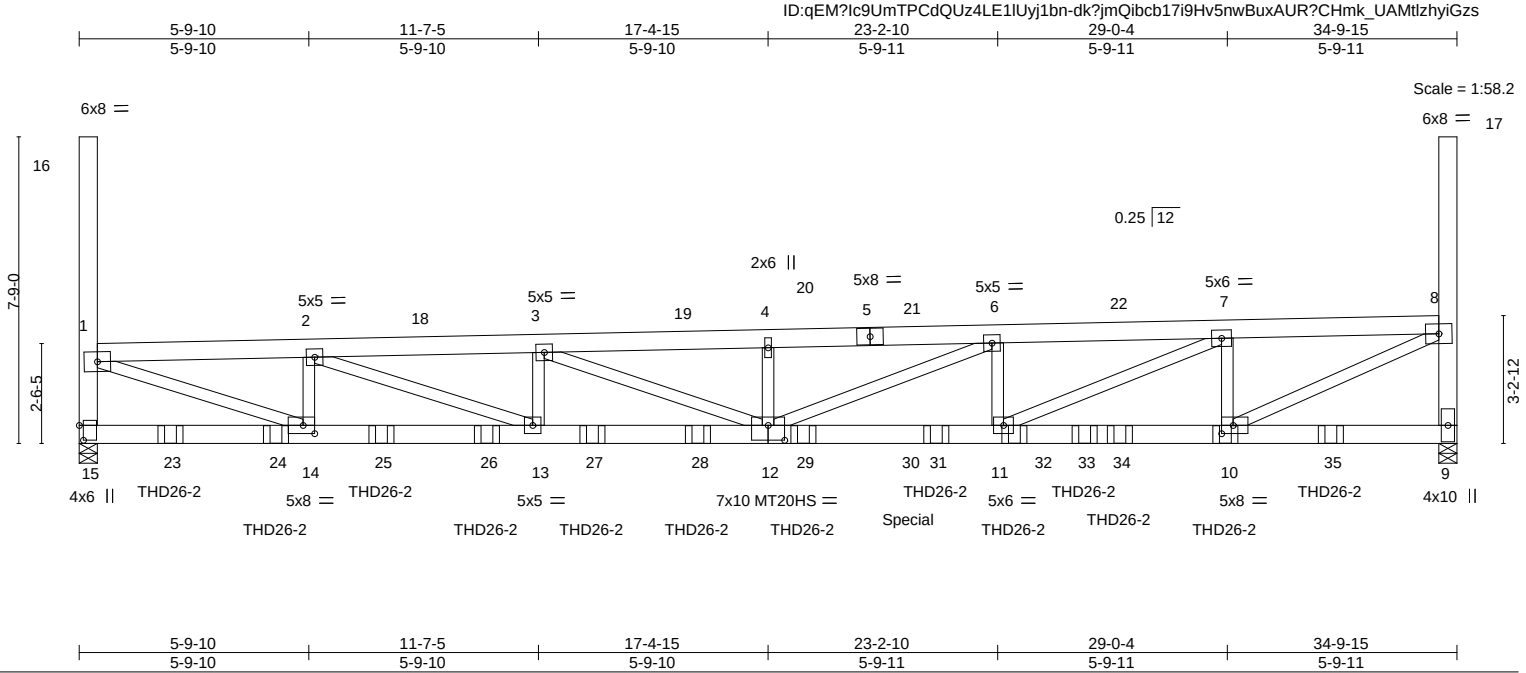

Plate Offsets (X,Y)-- [10:0-3-8,0-2-8], [12:0-5-0,0-4-8], [14:0-3-8,0-2-8], [15:0-4-8,0-1-4]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.63	12	>659	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.93	11-12	>443	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.10	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 782 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 15-16,9-17: 2x6 SP No.1, 1-14,8-10: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-5-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 15=0-5-8, 9=0-5-8
Max Horz 15=676(LC 15)
Max Uplift 15=-2463(LC 12), 9=-2868(LC 16)
Max Grav 15=6659(LC 22), 9=7155(LC 22)

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

TOP CHORD	1-15=-5817/2919, 1-2=-14069/7344, 2-3=-21217/10898, 3-4=-23755/11641, 4-6=-23755/11649, 6-7=-21509/10374, 7-8=-13129/6692, 8-9=-6612/3230
BOT CHORD	14-15=-1728/1760, 13-14=-7925/14053, 12-13=-11469/21207, 11-12=-10376/21500, 10-11=-6247/13121, 9-10=-417/538
WEBS	1-14=-7269/14196, 2-14=-3429/1894, 2-13=-4574/7641, 3-13=-1609/920, 3-12=-1467/2729, 4-12=-659/394, 6-12=-1995/2594, 6-11=-1534/1146, 7-11=-4676/9218, 7-10=-4325/2075, 8-10=-6929/14191

NOTES-

1) 3-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.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 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 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 19-7-3, Corner(3) 19-7-3 to 34-7-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) Plates checked for a plus or minus 3 degree rotation about its center.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=2463, 9=2868.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33, 54, 55, 56, 57 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
14) Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent spaced at 3-9-0 oc max. starting at 21-8-0 from the left end to 25-5-0 to connect truss(es) to front face of bottom chord.
15) Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent spaced at 5-4-0 oc max. starting at 2-3-11 from the left end to 31-7-11 to connect truss(es) to back face of bottom chord.
16) Fill all nail holes where hanger is in contact with lumber.
17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 140 lb down and 40 lb up at 17-7-3, and 140 lb down and 40 lb up at 21-0-5 on top chord, and 508 lb down and 377 lb up at 20-11-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 18-22=-80, 9-15=-27
   Concentrated Loads (lb)
   Vert: 4=-100 10=-751(B) 21=-100 23=-932(B) 24=-700(B) 25=-464(B) 26=-464(B) 27=-464(B) 28=-464(B) 29=-464(B) 30=-464(B) 31=-885(F) 32=-464(B) 33=-417(F) 34=-751(B) 35=-999(B)
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-18=-80, 22=-80-to-8=-176
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 18-22=-67, 9-15=-27
   Concentrated Loads (lb)
   Vert: 4=-88 10=-606(B) 21=-88 23=-747(B) 24=-565(B) 25=-376(B) 26=-376(B) 27=-376(B) 28=-376(B) 29=-376(B) 30=-376(B) 31=-760(F) 32=-376(B) 33=-351(F) 34=-606(B) 35=-801(B)
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-18=-67, 22=-67-to-8=-139
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 18-22=-77, 9-15=-27
   Concentrated Loads (lb)
   Vert: 4=-88 10=-606(B) 21=-88 23=-747(B) 24=-565(B) 25=-376(B) 26=-376(B) 27=-376(B) 28=-376(B) 29=-376(B) 30=-376(B) 31=-760(F) 32=-376(B) 33=-351(F) 34=-606(B) 35=-801(B)
   Trapezoidal Loads (plf)
   Vert: 1=-149-to-18=-77, 22=-77-to-8=-149
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 18-22=-39, 9-15=-27
   Concentrated Loads (lb)
   Vert: 4=-61 10=-606(B) 21=-61 23=-747(B) 24=-565(B) 25=-376(B) 26=-376(B) 27=-376(B) 28=-376(B) 29=-376(B) 30=-376(B) 31=-760(F) 32=-376(B) 33=-351(F) 34=-606(B) 35=-801(B)
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-18=-39, 22=-39-to-8=-111
22) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 18-22=-94, 9-15=-27
   Concentrated Loads (lb)
   Vert: 4=-100 10=-751(B) 21=-100 23=-932(B) 24=-700(B) 25=-464(B) 26=-464(B) 27=-464(B) 28=-464(B) 29=-464(B) 30=-464(B) 31=-885(F) 32=-464(B) 33=-417(F) 34=-751(B) 35=-999(B)
   Trapezoidal Loads (plf)
   Vert: 1=-190-to-18=-94, 22=-94-to-8=-190
23) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 18-22=-43, 9-15=-27
   Concentrated Loads (lb)
   Vert: 4=-65 10=-751(B) 21=-65 23=-932(B) 24=-700(B) 25=-464(B) 26=-464(B) 27=-464(B) 28=-464(B) 29=-464(B) 30=-464(B) 31=-885(F) 32=-464(B) 33=-417(F) 34=-751(B) 35=-999(B)
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-18=-43, 22=-43-to-8=-139
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 18-22=-50, 9-15=-27
   Horz: 1-15=24, 1-16=50, 1-8=-17, 8-9=6, 8-17=34
   Concentrated Loads (lb)
   Vert: 4=-140 10=196(B) 21=-140 23=239(B) 24=212(B) 25=272(B) 26=271(B) 27=271(B) 28=271(B) 29=270(B) 30=270(B) 31=59(F) 32=269(B) 33=108(F) 34=197(B) 35=304(B)
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-18=-50, 22=-50-to-8=-122
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 18-22=-60, 9-15=-27
   Horz: 1-15=-6, 1-16=-34, 1-8=-6, 8-9=-24, 8-17=-50
   Concentrated Loads (lb)
   Vert: 4=-93 10=196(B) 21=-93 23=239(B) 24=212(B) 25=272(B) 26=271(B) 27=271(B) 28=271(B) 29=270(B) 30=270(B) 31=59(F) 32=269(B) 33=108(F) 34=197(B) 35=304(B)

Continued on page 3

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 1=-132-to-18=-60, 22=-60-to-8=-132

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 18-22=-50, 9-15=-27
Horz: 1-15=19, 1-16=-34, 1-8=-17, 8-9=4, 8-17=34
Concentrated Loads (lb)
Vert: 4=-125 10=196(B) 21=-125 23=239(B) 24=212(B) 25=272(B) 26=271(B) 27=271(B) 28=271(B) 29=270(B) 30=270(B) 31=59(F) 32=269(B) 33=108(F) 34=197(B) 35=304(B)
Trapezoidal Loads (plf)
Vert: 1=-122-to-18=-50, 22=-50-to-8=-122

28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 18-22=-60, 9-15=-27
Horz: 1-15=-4, 1-16=-34, 1-8=-6, 8-9=-19, 8-17=34
Concentrated Loads (lb)
Vert: 4=-125 10=196(B) 21=-125 23=239(B) 24=212(B) 25=272(B) 26=271(B) 27=271(B) 28=271(B) 29=270(B) 30=270(B) 31=59(F) 32=269(B) 33=108(F) 34=197(B) 35=304(B)
Trapezoidal Loads (plf)
Vert: 1=-132-to-18=-60, 22=-60-to-8=-132

33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 18-22=-80, 9-15=-27
Concentrated Loads (lb)
Vert: 4=-100 10=-751(B) 21=-100 23=-932(B) 24=-700(B) 25=-464(B) 26=-464(B) 27=-464(B) 28=-464(B) 29=-464(B) 30=-464(B) 31=-885(F) 32=-464(B) 33=-417(F) 34=-751(B) 35=-999(B)
Trapezoidal Loads (plf)
Vert: 1=-176-to-18=-80, 22=-80-to-8=-176

54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 18-22=-50, 9-15=-27
Horz: 1-15=24, 1-16=50, 1-8=-17, 8-9=6, 8-17=34
Concentrated Loads (lb)
Vert: 4=-140 10=-607(B) 21=-140 23=-709(B) 24=-593(B) 25=-510(B) 26=-510(B) 27=-509(B) 28=-509(B) 29=-508(B) 30=-508(B) 31=-625(F) 32=-508(B) 33=-316(F) 34=-608(B) 35=-1225(B)
Trapezoidal Loads (plf)
Vert: 1=-122-to-18=-50, 22=-50-to-8=-122

55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 18-22=-60, 9-15=-27
Horz: 1-15=-6, 1-16=-34, 1-8=-6, 8-9=-24, 8-17=-50
Concentrated Loads (lb)
Vert: 4=-93 10=-607(B) 21=-93 23=-709(B) 24=-593(B) 25=-510(B) 26=-510(B) 27=-509(B) 28=-509(B) 29=-508(B) 30=-508(B) 31=-625(F) 32=-508(B) 33=-316(F) 34=-608(B) 35=-1225(B)
Trapezoidal Loads (plf)
Vert: 1=-132-to-18=-60, 22=-60-to-8=-132

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 18-22=-50, 9-15=-27
Horz: 1-15=19, 1-16=-34, 1-8=-17, 8-9=4, 8-17=34
Concentrated Loads (lb)
Vert: 4=-125 10=-607(B) 21=-125 23=-709(B) 24=-593(B) 25=-510(B) 26=-510(B) 27=-509(B) 28=-509(B) 29=-508(B) 30=-508(B) 31=-625(F) 32=-508(B) 33=-316(F) 34=-608(B) 35=-1225(B)
Trapezoidal Loads (plf)
Vert: 1=-122-to-18=-50, 22=-50-to-8=-122

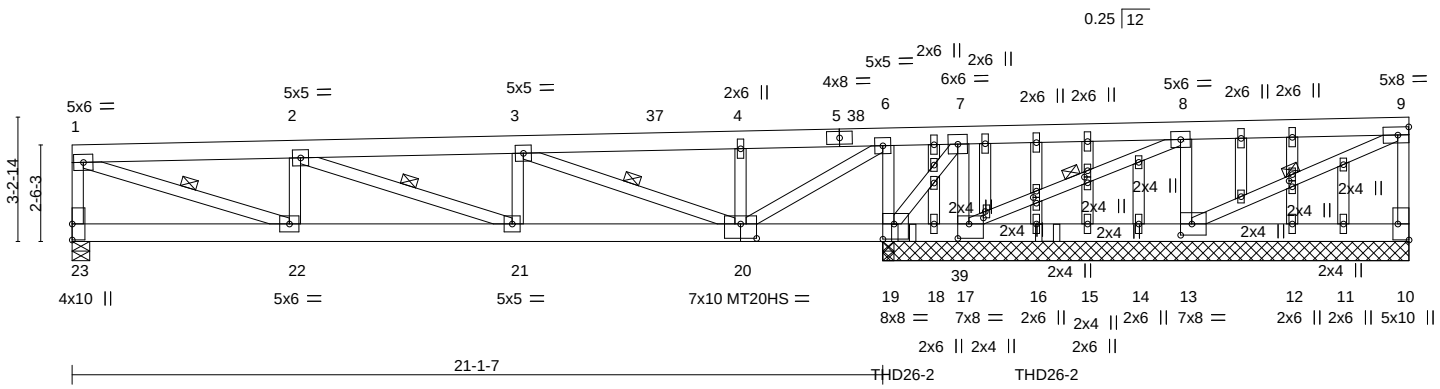
57) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 18-22=-60, 9-15=-27
Horz: 1-15=-4, 1-16=-34, 1-8=-6, 8-9=-19, 8-17=34
Concentrated Loads (lb)
Vert: 4=-125 10=-607(B) 21=-125 23=-709(B) 24=-593(B) 25=-510(B) 26=-510(B) 27=-509(B) 28=-509(B) 29=-508(B) 30=-508(B) 31=-625(F) 32=-508(B) 33=-316(F) 34=-608(B) 35=-1225(B)
Trapezoidal Loads (plf)
Vert: 1=-132-to-18=-60, 22=-60-to-8=-132

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S I53978405
MOBETTA	G2	GABLE	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:26:36 2022 Page 1
ID:qEM?Ic9UmTPCdQUz4LE1lUyj1bn-ziocp8mkQ7gQow9tuKWMa_tK70pqRyTDJebWevyiGzn

5-9-10	11-7-5	17-4-15	23-2-10	29-0-4	34-9-15
5-9-10	5-9-10	5-9-10	5-9-11	5-9-11	5-9-11

Scale = 1:60.0



5-9-10	11-7-5	17-4-15	21-4-15	23-2-10	29-0-4	34-9-15
5-9-10	5-9-10	5-9-10	3-11-15	1-9-11	5-9-11	5-9-11

Plate Offsets (X,Y)-- [9:0-3-7,0-2-8], [10:Edge,0-3-8], [13:0-3-8,0-3-8], [17:0-3-8,0-4-8], [17:0-2-0,0-0-9], [19:0-3-8,0-4-12], [20:0-5-0,0-4-8], [28:0-1-13,0-1-0], [30:0-1-13,0-1-0], [35:0-1-13,0-1-0]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.13	21-22	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.19	21-22	>999	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.12	10	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 261 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-7-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-5-13 oc bracing.
WEBS	1 Row at midpt 1-22, 2-21, 3-20, 8-17, 9-13

REACTIONS. All bearings 13-8-8 except (jt=length) 23=0-5-8.
(lb) - Max Horz 23=315(LC 48)
Max Uplift All uplift 100 lb or less at joint(s) 11 except 23=-842(LC 45), 10=-1968(LC 54), 17=-1314(LC 66), 13=-802(LC 53), 19=-2189(LC 53), 18=-350(LC 72), 16=-160(LC 48)
Max Grav All reactions 250 lb or less at joint(s) 15, 14, 12, 11 except 23=1515(LC 38), 10=1959(LC 65), 17=1178(LC 47), 13=1005(LC 38), 19=4302(LC 38), 19=2986(LC 1), 18=344(LC 23), 16=526(LC 23)

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

TOP CHORD	1-23=-1421/1157, 1-2=-3241/2709, 2-3=-2750/2010, 3-4=-2303/2188, 4-6=-4038/3929, 6-7=-4263/4604, 7-8=-4637/4843, 8-9=-3953/4107, 9-10=-1895/1962
BOT CHORD	22-23=-354/340, 21-22=-2620/3087, 20-21=-4459/4948, 19-20=-7305/6962, 18-19=-8902/8701, 17-18=-7544/7343, 16-17=-9243/9135, 15-16=-7069/6961, 14-15=-5545/5437, 13-14=-4021/3913, 12-13=-6464/6467, 11-12=-3305/3308, 10-11=-1780/1783
WEBS	1-22=-2768/3345, 2-22=-1012/1067, 2-21=-2014/2039, 3-21=-636/876, 3-20=-2965/2534, 4-20=-465/303, 6-20=-1997/2800, 7-17=-2592/2845, 8-17=-3487/3345, 8-13=-1388/1536, 9-13=-4605/4521, 7-19=-3890/3658, 6-19=-1688/1196

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-1-12 to 15-1-12, Exterior(2) 15-1-12 to 19-8-3, Corner(3) 19-8-3 to 34-8-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable studs spaced at 1-4-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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STATE OF MISSOURI
ANDREW THOMAS JOHNSON
NUMBER PE-2017018993
PROFESSIONAL ENGINEER

September 2,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 23=842, 10=1968, 17=1314, 13=802, 19=2189, 18=350, 16=160.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 450 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 21-1-7 to 34-9-15 for 1143.3 plf.
13) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
14) Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent spaced at 3-9-0 oc max. starting at 21-8-0 from the left end to 25-5-0 to connect truss(es) to back face of bottom chord.
15) Fill all nail holes where hanger is in contact with lumber.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

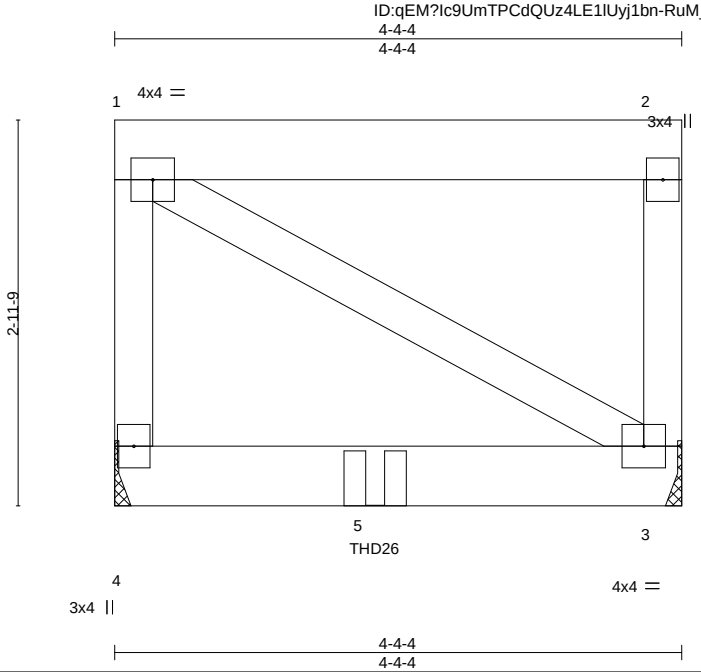
LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-80, 10-23=-27
   Concentrated Loads (lb)
   Vert: 16=-471(B) 39=-1028(B)

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	G3	Flat Girder	1	2	I53978406

Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:26:37 2022 Page 1
ID:qEM?lc9UmTPCdQUz4LE1lUyj1bn-RuM_1UnMBRoHQ4k3S11b7CQdUPAHAdYMYIK3ALyiGzm



Scale = 1:17.7

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.03	3-4	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.06	3-4	>802	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 66 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=Mechanical
Max Horz 4=-76(LC 12)
Max Uplift 4=-144(LC 12), 3=-126(LC 13)
Max Grav 4=1055(LC 1), 3=912(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-125/253

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered 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.
3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=144, 3=126.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Use MiTek THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent at 2-0-0 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
13) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

September 2,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)

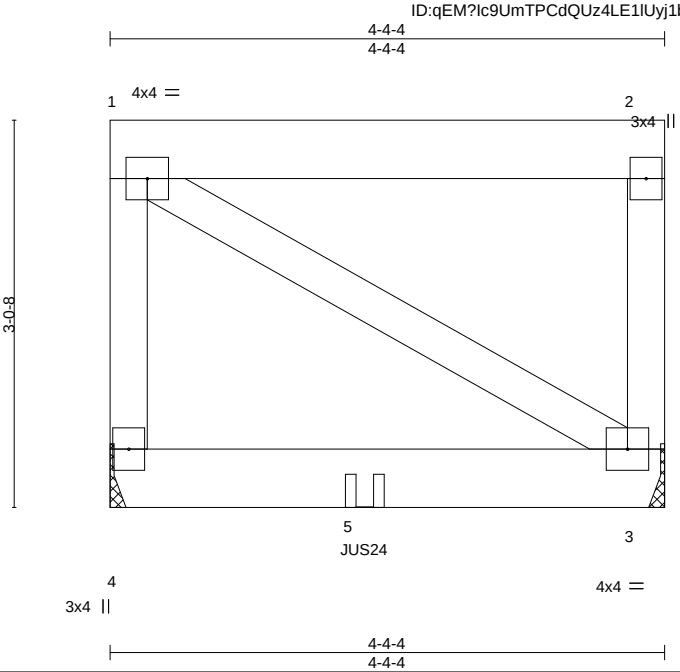
Vert: 1-2=-60, 3-4=-20

Concentrated Loads (lb)

Vert: 5=-1641(B)

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	G4	Flat Girder	1	2	I53978407
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:26:39 2022 Page 1
ID:qEM?Ic9UmTPCdQUz4LE1lUyj1bn-OHUISAocj22?fNuSZS43CdVzyD?qeX1f?cpAFDyiGzk



Scale = 1:18.1

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.01	3-4	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.02	3-4	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 66 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=Mechanical
Max Horz 4=-78(LC 12)
Max Uplift 4=-165(LC 12), 3=-144(LC 13)
Max Grav 4=498(LC 1), 3=444(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-129/256

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=165, 3=144.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 2-0-0 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
13) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

September 2,2022

Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 5=-617(F)

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	G5	ROOF SPECIAL GIRDER	1	3	I53978408
					Job Reference (optional)

Mid America Truss, Jefferson City, MO 65101 — 8.610 s May 25 2022 MiTek Industries, Inc. Thu Sep 1 09:13:49 2022 Page 1
ID:qEM?Ic9UmTPCdQUz4LE1lUyj1bn-4xB6g7bTLLPr16es1WlK_4KsQwZ?VuvQsKFtEcyi2DW

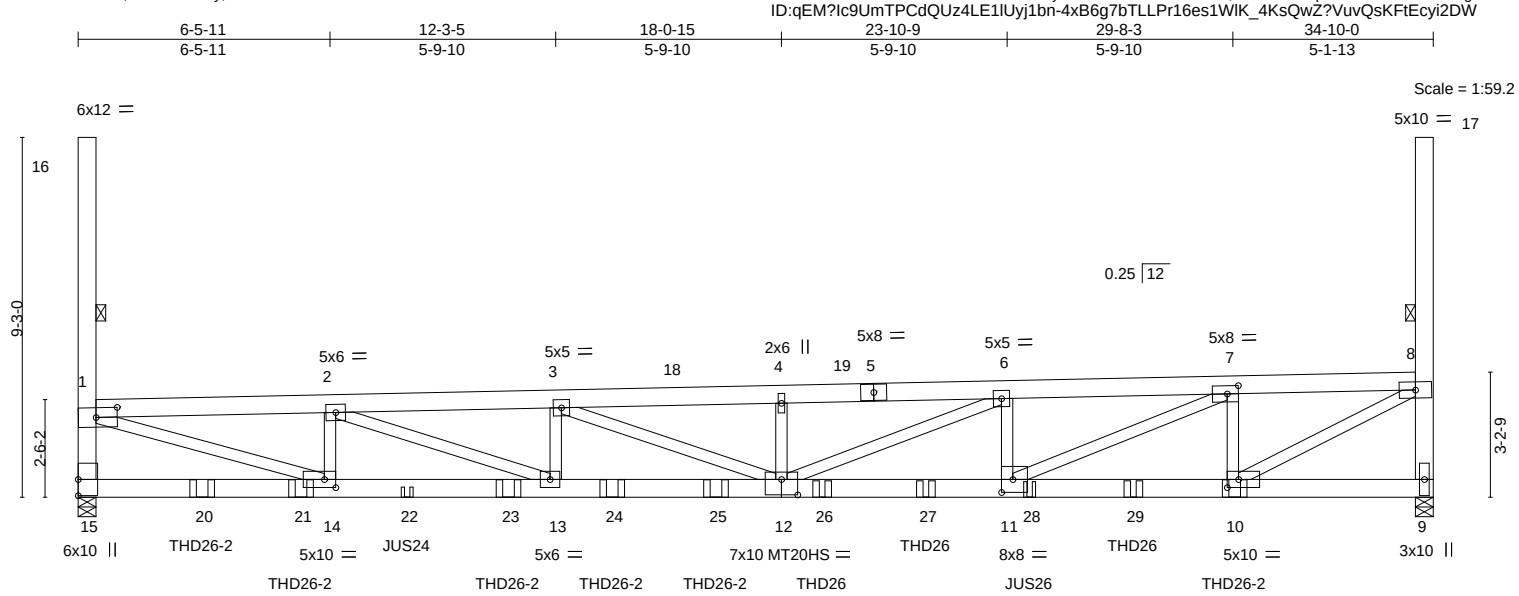


Plate Offsets (X,Y)-- [1:0-6-9,0-3-0], [7:0-3-7,0-2-8], [10:0-3-8,0-2-8], [11:0-3-8,0-4-0], [12:0-5-0,0-4-12], [14:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.80	11-12	>518	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-1.17	11-12	>351	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.12	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 803 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except*
	15-16,9-17: 2x6 SP No.1, 1-14,7-11,8-10: 2x4 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-2-2 oc purlins, except end verticals. Except:
	6-0-0 oc bracing: 1-15, 8-9
	10-0-0 oc bracing: 1-16, 8-17
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 1-16, 8-17

REACTIONS. (size) 15=0-5-8, 9=0-5-8
Max Horz 15=849(LC 15)
Max Uplift 15=-2376(LC 12), 9=-2502(LC 16)
Max Grav 15=7203(LC 22), 9=8499(LC 22)

FORCES. (lb) - First Load Case Only

TOP CHORD	1-15=-6162, 1-16=0, 1-2=-17292, 2-3=-25691, 3-4=-29347, 4-6=-29345, 6-7=-26085, 7-8=-14900, 8-9=-8204, 8-17=0
BOT CHORD	14-15=851, 13-14=17279, 12-13=25682, 11-12=26076, 10-11=14896, 9-10=288
WEBS	1-14=17288, 2-14=-3606, 2-13=8974, 3-13=-2067, 3-12=3930, 4-12=-384, 6-12=3559, 6-11=-1843, 7-11=12299, 7-10=-5218, 8-10=16751

NOTES-

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 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, Except member 7-10 2x4 - 2 rows staggered at 0-6-0 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 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 19-7-4, Corner(3) 19-7-4 to 34-7-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) Plates checked for a plus or minus 3 degree rotation about its center.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2376 lb uplift at joint 15 and 2502 lb uplift at joint 9.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

September 2,2022

Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

13) Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent spaced at 13-4-0 oc max. starting at 3-2-4 from the left end to 29-8-12 to connect truss(es) T14 (2 ply 2x6 SP), T13 (2 ply 2x6 SP), T11 (2 ply 2x6 SP), T10 (2 ply 2x6 SP), T9 (2 ply 2x6 SP), T4 (2 ply 2x6 SP) to front face of bottom chord.
14) Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 8-5-8 from the left end to connect truss(es) T12 (1 ply 2x6 SP) to front face of bottom chord.
15) Use MiTek THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent spaced at 5-4-0 oc max. starting at 19-1-8 from the left end to 27-1-8 to connect truss(es) T8 (1 ply 2x6 SP), T7 (1 ply 2x6 SP), T5 (1 ply 2x6 SP) to front face of bottom chord.
16) Use MiTek JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 24-5-8 from the left end to connect truss(es) T6 (1 ply 2x6 SP) to front face of bottom chord.
17) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-80, 9-15=-27
   Concentrated Loads (lb)
   Vert: 10=-2037(F) 20=-1034(F) 21=-778(F) 22=-501(F) 23=-521(F) 24=-521(F) 25=-521(F) 26=-1589(F) 27=-1589(F) 28=-889(F) 29=-1589(F)

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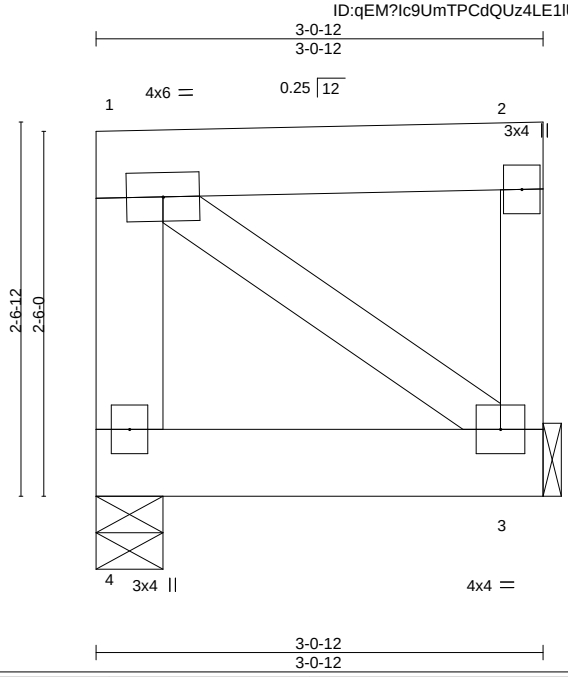
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	J1	JACK-CLOSED	4	2	I53978409

Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:26:43 2022 Page 1
ID:qEM?Ic9UmTPCdQUz4LE1lUyj1bn-G2jFIXr7nHYQ8?BDoI8?NTgf9qRIaL_FwEnNO?yiGzg



Scale = 1:15.8

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	4	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	4	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.01	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-P							Weight: 49 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 1-4: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-0-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=85(LC 13)
Max Uplift 4=-39(LC 12), 3=-22(LC 13)
Max Grav 4=282(LC 22), 3=282(LC 22)

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

NOTES-

1) 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: 2x6 - 2 rows staggered at 0-9-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-176, 3-4=-27

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LOAD CASE(S) Standard

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-139, 3-4=-27
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-144, 3-4=-27
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-111, 3-4=-27
22) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-183, 3-4=-27
23) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-139, 3-4=-27
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-122, 3-4=-27
   Horz: 1-4=24, 1-2=-17, 2-3=6
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-132, 3-4=-27
   Horz: 1-4=-6, 1-2=-6, 2-3=-24
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-122, 3-4=-27
   Horz: 1-4=19, 1-2=-17, 2-3=4
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-132, 3-4=-27
   Horz: 1-4=-4, 1-2=-6, 2-3=-19
33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-176, 3-4=-27

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	J2	JACK-CLOSED	2	2	I53978410

Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:26:44 2022 Page 1
ID:qEM?Ic9UmTPCdQUz4LE1lUyj1bn-kEHdVtslYagHl8mPM?fEvgDevEnVJmQO9uXxwRyiGzf

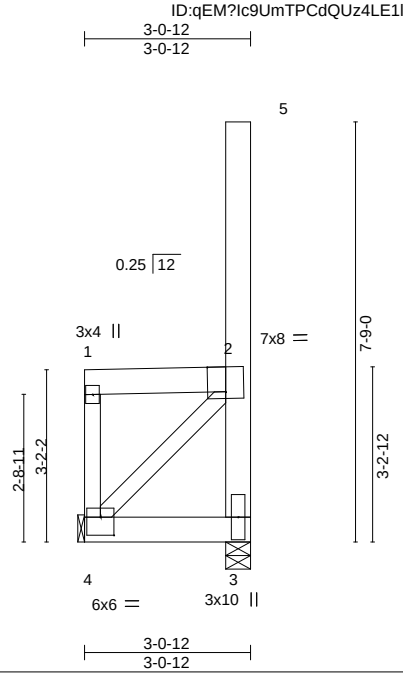

Plate Offsets (X,Y)-- [2:0-4-0,Edge], [4:0-3-0,0-4-0]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.00	4	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	4	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 77 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=431(LC 15)
Max Uplift 4=-674(LC 12), 3=-658(LC 13)
Max Grav 4=730(LC 15), 3=708(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-265/356, 2-3=-800/2024
BOT CHORD 3-4=-234/287
WEBS 2-4=-1961/1108

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=674, 3=658.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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LOAD CASE(S) Standard

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Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-176, 3-4=-27
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-139, 3-4=-27
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-144, 3-4=-27
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-111, 3-4=-27
22) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-183, 3-4=-27
23) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-139, 3-4=-27
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-122, 3-4=-27
   Horz: 1-4=24, 1-2=-17, 2-3=6, 2-5=50
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-132, 3-4=-27
   Horz: 1-4=-6, 1-2=-6, 2-3=-24, 2-5=-50
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-122, 3-4=-27
   Horz: 1-4=19, 1-2=-17, 2-3=4, 2-5=34
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-132, 3-4=-27
   Horz: 1-4=-4, 1-2=-6, 2-3=-19, 2-5=34
33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-176, 3-4=-27

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	J3	JACK-CLOSED	5	2	I53978411
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:26:45 2022 Page 1
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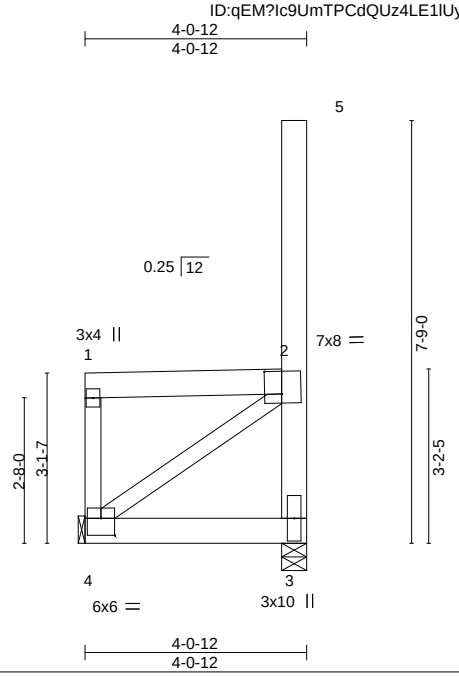

Plate Offsets (X,Y)-- [2:0-3-12,0-5-0], [4:0-3-0,0-3-12]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.00	3-4	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	3-4	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 88 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
3-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=0-5-8
Max Horz 4=432(LC 13)
Max Uplift 4=-496(LC 12), 3=-474(LC 13)
Max Grav 4=572(LC 15), 3=543(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-166/329, 2-3=-621/1576
BOT CHORD 3-4=-261/335
WEBS 2-4=-1754/1029

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=496, 3=474.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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MiTek
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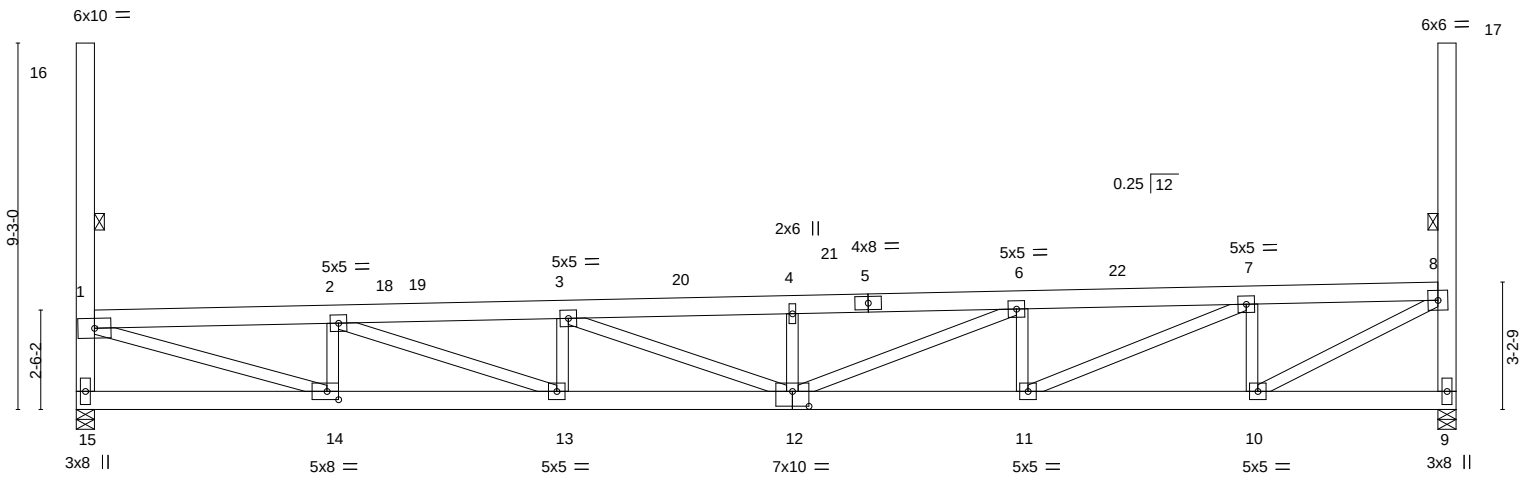
Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T1	ROOF SPECIAL	4	2	I53978412
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:26:47 2022 Page 1
ID:qEM?Ic9UmTPCdQUz4LE1lUyj1bn-9pzm7vudqV2sccV_18DxXJr9eRfZWzzrrslbXmyiGzc

6-5-11	12-3-5	18-0-15	23-10-9	29-8-3	34-10-0
6-5-11	5-9-10	5-9-10	5-9-10	5-9-10	5-1-13

Scale = 1:58.2



6-5-11	12-3-5	18-0-15	23-10-9	29-8-3	34-10-0
6-5-11	5-9-10	5-9-10	5-9-10	5-9-10	5-1-13

Plate Offsets (X,Y)-- [12:0-5-0,0-4-8], [14:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.33	12-13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.58	12-13	>716	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.07	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 536 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
15-16: 2x6 SP 2400F 2.0E, 9-17: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-7 oc purlins, except end verticals. Except:
6-0-0 oc bracing: 1-15, 8-9
10-0-0 oc bracing: 1-16, 8-17
BOT CHORD Rigid ceiling directly applied or 8-8-14 oc bracing.
WEBS 1 Row at midpt 1-16, 8-17

REACTIONS. (size) 15=0-5-8, 9=0-5-8
Max Horz 15=849(LC 13)
Max Uplift 15=-247(LC 12), 9=-130(LC 16)
Max Grav 15=2825(LC 22), 9=2609(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-2670/1071, 1-2=-6442/2786, 2-3=-8924/3133, 3-4=-8776/2647, 4-6=-8776/2656, 6-7=-7087/2531, 7-8=-4029/1914, 8-9=-2512/1013
BOT CHORD 14-15=-2087/2170, 13-14=-3522/6430, 12-13=-3858/8912, 11-12=-2316/7080, 10-11=-1362/4021, 9-10=-395/517
WEBS 1-14=-2589/6375, 2-14=-1910/906, 2-13=-1530/2651, 3-13=-764/632, 3-12=-797/576, 4-12=-534/318, 6-12=-1098/1843, 6-11=-1245/778, 7-11=-1609/3366, 7-10=-2057/818, 8-10=-1571/4442

NOTES-
1) 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.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 19-7-4, Corner(3) 19-7-4 to 34-7-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=247, 9=130.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 351 lb down and 102 lb up at 7-8-15, and 351 lb down and 102 lb up at 12-2-6 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-22=-80, 9-15=-27
   Concentrated Loads (lb)
   Vert: 3=-250 18=-250
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-19=-80, 22=-80-to-8=-176
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-22=-67, 9-15=-27
   Concentrated Loads (lb)
   Vert: 3=-219 18=-219
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-19=-67, 22=-67-to-8=-139
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-22=-77, 9-15=-27
   Concentrated Loads (lb)
   Vert: 3=-219 18=-219
   Trapezoidal Loads (plf)
   Vert: 1=-149-to-19=-77, 22=-77-to-8=-149
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-22=-39, 9-15=-27
   Concentrated Loads (lb)
   Vert: 3=-153 18=-153
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-19=-39, 22=-39-to-8=-111
22) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-22=-94, 9-15=-27
   Concentrated Loads (lb)
   Vert: 3=-250 18=-250
   Trapezoidal Loads (plf)
   Vert: 1=-190-to-19=-94, 22=-94-to-8=-190
23) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-22=-43, 9-15=-27
   Concentrated Loads (lb)
   Vert: 3=-163 18=-163
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-19=-43, 22=-43-to-8=-139
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 19-22=-50, 9-15=-27
   Horz: 1-15=24, 1-16=51, 1-8=-17, 8-9=6, 8-17=34
   Concentrated Loads (lb)
   Vert: 3=-351 18=-351
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-19=-50, 22=-50-to-8=-122
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 19-22=-60, 9-15=-27
   Horz: 1-15=-6, 1-16=-34, 1-8=-6, 8-9=-24, 8-17=-51
   Concentrated Loads (lb)
   Vert: 3=-233 18=-233
   Trapezoidal Loads (plf)
   Vert: 1=-132-to-19=-60, 22=-60-to-8=-132
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 19-22=-50, 9-15=-27
   Horz: 1-15=19, 1-16=-34, 1-8=-17, 8-9=4, 8-17=34
   Concentrated Loads (lb)
   Vert: 3=-312 18=-312
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-19=-50, 22=-50-to-8=-122
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 19-22=-60, 9-15=-27
Horz: 1-15=-4, 1-16=-34, 1-8=-6, 8-9=-19, 8-17=34

Concentrated Loads (lb)
Vert: 3=-312 18=-312

Trapezoidal Loads (plf)
Vert: 1=-132-to-19=-60, 22=-60-to-8=-132

33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)
Vert: 19-22=-80, 9-15=-27

Concentrated Loads (lb)
Vert: 3=-250 18=-250

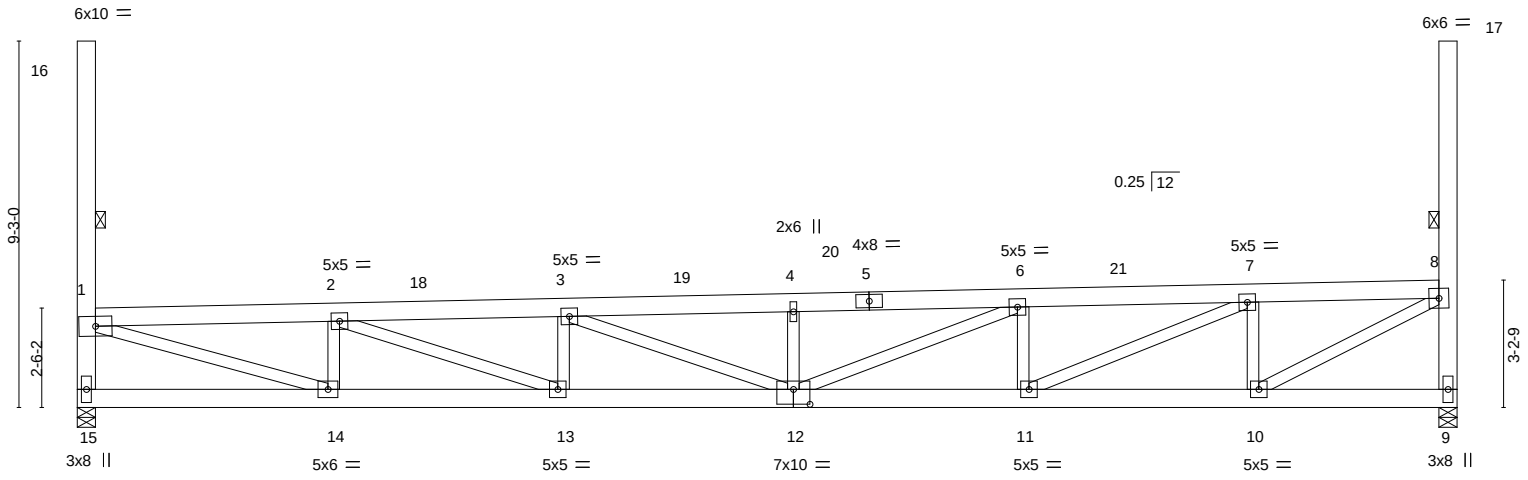
Trapezoidal Loads (plf)
Vert: 1=-176-to-19=-80, 22=-80-to-8=-176

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T1A	ROOF SPECIAL	4	2	I53978413
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:27:01 2022 Page 1
ID:qEM?lc9UmTPCdQUz4LE1lUyj1bn-kWp33h3PXpptImags4TD5GQZ64S6oKmv319K1yyiGzO

6-5-11	12-3-5	18-0-15	23-10-9	29-8-3	34-10-0
6-5-11	5-9-10	5-9-10	5-9-10	5-9-10	5-1-13

Scale = 1:58.2



6-5-11	12-3-5	18-0-15	23-10-9	29-8-3	34-10-0
6-5-11	5-9-10	5-9-10	5-9-10	5-9-10	5-1-13

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

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.31	12-13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.52	12-13	>793	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.06	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 536 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
15-16: 2x6 SP 2400F 2.0E, 9-17: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-2 oc purlins, except end verticals. Except:
6-0-0 oc bracing: 1-15, 8-9
10-0-0 oc bracing: 1-16, 8-17
BOT CHORD Rigid ceiling directly applied or 9-5-11 oc bracing.
WEBS 1 Row at midpt 1-16, 8-17

REACTIONS. (size) 15=0-5-8, 9=0-5-8
Max Horz 15=849(LC 13)
Max Uplift 15=-227(LC 12), 9=-102(LC 16)
Max Grav 15=2812(LC 22), 9=2497(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-2662/938, 1-2=-5830/2367, 2-3=-7834/2575, 3-4=-8022/2278, 4-6=-8024/2287, 6-7=-6619/2302, 7-8=-3824/1813, 8-9=-2402/956
BOT CHORD 14-15=-2077/2180, 13-14=-3102/5812, 12-13=-3300/7825, 11-12=-2074/6612, 10-11=-1262/3815, 9-10=-400/519
WEBS 1-14=-2181/5674, 2-14=-1692/774, 2-13=-1390/2149, 3-13=-576/582, 3-12=-602/506, 4-12=-549/322, 6-12=-937/1533, 6-11=-1123/716, 7-11=-1460/3077, 7-10=-1944/759, 8-10=-1452/4211

NOTES-
1) 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.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 19-7-4, Corner(3) 19-7-4 to 34-7-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=227, 9=102.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard Except:

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 18-21=-80, 9-15=-27
   Trapezoidal Loads (plf)
   Vert: 1=-266-to-18=-80, 21=-80-to-8=-176
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 18-21=-67, 9-15=-27
   Trapezoidal Loads (plf)
   Vert: 1=-134-to-18=-67, 21=-67-to-8=-139
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 18-21=-77, 9-15=-27
   Trapezoidal Loads (plf)
   Vert: 1=-144-to-18=-77, 21=-77-to-8=-149
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 18-21=-39, 9-15=-27
   Trapezoidal Loads (plf)
   Vert: 1=-106-to-18=-39, 21=-39-to-8=-111
22) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 18-21=-94, 9-15=-27
   Trapezoidal Loads (plf)
   Vert: 1=-280-to-18=-94, 21=-94-to-8=-190
23) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 18-21=-43, 9-15=-27
   Trapezoidal Loads (plf)
   Vert: 1=-229-to-18=-43, 21=-43-to-8=-139
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 18-21=-50, 9-15=-27
   Horz: 1-15=24, 1-16=51, 1-8=-17, 8-9=6, 8-17=34
   Trapezoidal Loads (plf)
   Vert: 1=-118-to-18=-50, 21=-50-to-8=-122
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 18-21=-60, 9-15=-27
   Horz: 1-15=-6, 1-16=-34, 1-8=-6, 8-9=-24, 8-17=-51
   Trapezoidal Loads (plf)
   Vert: 1=-128-to-18=-60, 21=-60-to-8=-132
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 18-21=-50, 9-15=-27
   Horz: 1-15=19, 1-16=-34, 1-8=-17, 8-9=4, 8-17=34
   Trapezoidal Loads (plf)
   Vert: 1=-118-to-18=-50, 21=-50-to-8=-122
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 18-21=-60, 9-15=-27
   Horz: 1-15=-4, 1-16=-34, 1-8=-6, 8-9=-19, 8-17=34
   Trapezoidal Loads (plf)
   Vert: 1=-128-to-18=-60, 21=-60-to-8=-132
33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 18-21=-80, 9-15=-27
   Trapezoidal Loads (plf)
   Vert: 1=-266-to-18=-80, 21=-80-to-8=-176

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T1AS	GABLE	1	1	I53978414
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:27:04 2022 Page 1
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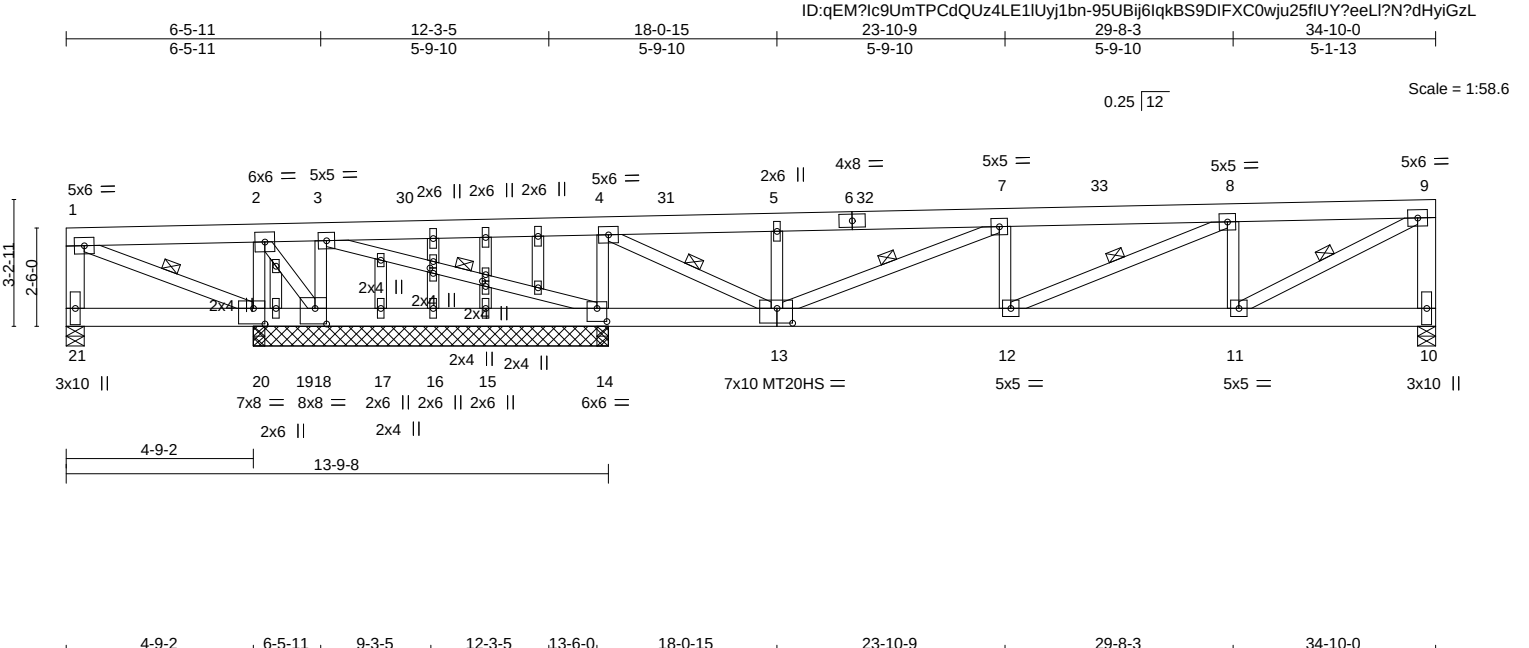

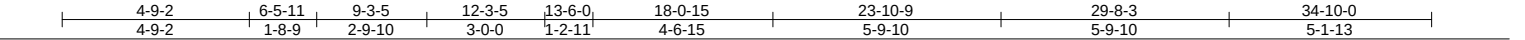

Plate Offsets (X,Y)-- [13:0-4-12,0-4-8], [14:0-3-0,0-4-0], [18:0-3-8,0-4-12], [20:0-3-8,0-4-12], [24:0-1-10,0-1-0], [26:0-1-10,0-1-0]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.09	12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.15	11-12	>999	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.08	10	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 252 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1 *Except* 13-21: 2x6 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 1-21,9-10: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-3-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 3-1-13 oc bracing.
WEBS	1 Row at midpt 1-20, 3-14, 4-13, 7-13, 8-12, 9-11

REACTIONS. All bearings 9-0-6 except (jt=length) 21=0-5-8, 10=0-5-8.
(lb) - Max Horz 21=412(LC 48)
Max Uplift All uplift 100 lb or less at joint(s) except 21=-1561(LC 45), 10=-904(LC 54), 20=-1403(LC 47), 18=-2491(LC 54), 14=-474(LC 45), 19=-309(LC 49), 15=-110(LC 22)
Max Grav All reactions 250 lb or less at joint(s) 19, 17, 16, 15 except 21=1600(LC 52), 10=1855(LC 37), 20=1731(LC 50), 20=377(LC 1), 18=2642(LC 65), 14=2150(LC 22), 14=1911(LC 1)

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

TOP CHORD	1-21=-1511/1568, 1-2=-3290/3356, 2-3=-3699/3806, 3-4=-5330/5563, 4-5=-4121/3854, 5-7=-2127/1866, 7-8=-2947/2032, 8-9=-2778/2085, 9-10=-1771/1250
BOT CHORD	20-21=-359/332, 19-20=-3147/3029, 18-19=-2405/2287, 17-18=-2838/2674, 16-17=-2599/2416, 15-16=-4879/4749, 14-15=-10083/9900, 13-14=-8207/7954, 12-13=-4322/4843, 11-12=-2152/2784
WEBS	1-20=-3669/3607, 3-18=-946/1079, 3-14=-2574/2446, 4-13=-2788/3528, 5-13=-399/248, 7-13=-3208/2916, 7-12=-908/1104, 8-12=-2387/2524, 8-11=-1383/1267, 9-11=-2376/3081, 2-18=-4227/4150, 4-14=-2207/1692, 2-20=-3126/3207

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 19-7-4, Corner(3) 19-7-4 to 34-7-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable studs spaced at 1-4-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1561 lb uplift at joint 21, 904 lb uplift at joint 10, 1403 lb uplift at joint 20, 2491 lb uplift at joint 18, 474 lb uplift at joint 14, 309 lb uplift at joint 19 and 110 lb uplift at joint 15.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 35, 36, 37, 38, 39, 40, 69, 70, 71, 72, 73, 74, 75, 76 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) This truss has been designed for a total drag load of 450 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 4-9-2 to 13-9-8 for 1735.6 plf.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 30-33=-80, 10-21=-27
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-30=-80, 33=-80-to-9=-176
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 30-33=-67, 10-21=-27
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-30=-67, 33=-67-to-9=-139
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 30-33=-77, 10-21=-27
   Trapezoidal Loads (plf)
   Vert: 1=-149-to-30=-77, 33=-77-to-9=-149
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 30-33=-39, 10-21=-27
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-30=-39, 33=-39-to-9=-111
22) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 30-33=-94, 10-21=-27
   Trapezoidal Loads (plf)
   Vert: 1=-190-to-30=-94, 33=-94-to-9=-190
23) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 30-33=-43, 10-21=-27
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-30=-43, 33=-43-to-9=-139
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 30-33=-50, 10-21=-27
   Horz: 1-21=24, 1-9=-17, 9-10=6
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-30=-50, 33=-50-to-9=-122
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 30-33=-60, 10-21=-27
   Horz: 1-21=-6, 1-9=-6, 9-10=-24
   Trapezoidal Loads (plf)
   Vert: 1=-132-to-30=-60, 33=-60-to-9=-132
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 30-33=-50, 10-21=-27
   Horz: 1-21=19, 1-9=-17, 9-10=4
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-30=-50, 33=-50-to-9=-122
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 30-33=-60, 10-21=-27
   Horz: 1-21=-4, 1-9=-6, 9-10=-19
   Trapezoidal Loads (plf)
   Vert: 1=-132-to-30=-60, 33=-60-to-9=-132
35) Dead + 0.75 Snow (balanced) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 30-33=-60, 10-21=-27
   Horz: 1-3=16200, 3-30=16200, 4-30=16200, 4-31=16200, 5-31=16200, 5-32=16200, 6-32=16201, 6-7=16200, 7-33=16200, 8-33=16200, 8-9=16200
   Drag: 14-20=-1302
   Trapezoidal Loads (plf)
   Vert: 1=-132-to-30=-60, 33=-60-to-9=-132
36) Dead + 0.75 Snow (balanced) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 30-33=-74, 10-21=-27
Horz: 1-3=-16200, 3-30=-16200, 4-30=-16200, 4-31=-16200, 5-31=-16200, 5-32=-16200, 6-32=-16201, 6-7=-16200, 7-33=-16200, 8-33=-16200, 8-9=-16200
Drag: 14-20=1302
Trapezoidal Loads (plf)
Vert: 1=-146-to-30=-74, 33=-74-to-9=-146

37) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 30-33=-70, 10-21=-27
Horz: 1-3=16200, 3-30=16200, 4-30=16200, 4-31=16200, 5-31=16200, 5-32=16200, 6-32=16201, 6-7=16200, 7-33=16200, 8-33=16200, 8-9=16200
Drag: 14-20=-1302
Trapezoidal Loads (plf)
Vert: 1=-142-to-30=-70, 33=-70-to-9=-142

38) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 30-33=-84, 10-21=-27
Horz: 1-3=-16200, 3-30=-16200, 4-30=-16200, 4-31=-16200, 5-31=-16200, 5-32=-16200, 6-32=-16201, 6-7=-16200, 7-33=-16200, 8-33=-16200, 8-9=-16200
Drag: 14-20=1302
Trapezoidal Loads (plf)
Vert: 1=-156-to-30=-84, 33=-84-to-9=-156

39) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 30-33=-32, 10-21=-27
Horz: 1-3=16200, 3-30=16200, 4-30=16200, 4-31=16200, 5-31=16200, 5-32=16200, 6-32=16201, 6-7=16200, 7-33=16200, 8-33=16200, 8-9=16200
Drag: 14-20=-1302
Trapezoidal Loads (plf)
Vert: 1=-104-to-30=-32, 33=-32-to-9=-104

40) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 30-33=-46, 10-21=-27
Horz: 1-3=-16200, 3-30=-16200, 4-30=-16200, 4-31=-16200, 5-31=-16200, 5-32=-16200, 6-32=-16201, 6-7=-16200, 7-33=-16200, 8-33=-16200, 8-9=-16200
Drag: 14-20=1302
Trapezoidal Loads (plf)
Vert: 1=-118-to-30=-46, 33=-46-to-9=-118

69) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 30-33=-43, 10-21=-27
Horz: 1-21=24, 1-3=16184, 3-30=16184, 4-30=16184, 4-31=16184, 5-31=16184, 5-32=16183, 6-32=16184, 6-7=16184, 7-33=16184, 8-33=16184, 8-9=16184, 9-10=6
Drag: 14-20=-1302
Trapezoidal Loads (plf)
Vert: 1=-115-to-30=-43, 33=-43-to-9=-115

70) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 30-33=-57, 10-21=-27
Horz: 1-21=24, 1-3=-16217, 3-30=-16217, 4-30=-16217, 4-31=-16217, 5-31=-16217, 5-32=-16217, 6-32=-16217, 6-7=-16217, 7-33=-16217, 8-33=-16217, 8-9=-16217, 9-10=6
Drag: 14-20=1302
Trapezoidal Loads (plf)
Vert: 1=-129-to-30=-57, 33=-57-to-9=-129

71) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 30-33=-53, 10-21=-27
Horz: 1-21=-6, 1-3=16194, 3-30=16194, 4-30=16194, 4-31=16194, 5-31=16194, 5-32=16194, 6-32=16194, 6-7=16194, 7-33=16194, 8-33=16194, 8-9=16194, 9-10=-24
Drag: 14-20=-1302
Trapezoidal Loads (plf)
Vert: 1=-125-to-30=-53, 33=-53-to-9=-125

72) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 30-33=-67, 10-21=-27
Horz: 1-21=-6, 1-3=-16206, 3-30=-16207, 4-30=-16206, 4-31=-16206, 5-31=-16206, 5-32=-16206, 6-32=-16207, 6-7=-16206, 7-33=-16206, 8-33=-16206, 8-9=-16206, 9-10=-24
Drag: 14-20=1302
Trapezoidal Loads (plf)
Vert: 1=-139-to-30=-67, 33=-67-to-9=-139

73) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 4

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 30-33=-43, 10-21=-27
Horz: 1-21=19, 1-3=16184, 3-30=16184, 4-30=16184, 4-31=16184, 5-31=16184, 5-32=16183, 6-32=16184, 6-7=16184, 7-33=16184, 8-33=16184, 8-9=16184, 9-10=4
Drag: 14-20=-1302
Trapezoidal Loads (plf)
Vert: 1=-115-to-30=-43, 33=-43-to-9=-115

74) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 30-33=-57, 10-21=-27
Horz: 1-21=19, 1-3=-16217, 3-30=-16217, 4-30=-16217, 4-31=-16217, 5-31=-16217, 5-32=-16217, 6-32=-16217, 6-7=-16217, 7-33=-16217, 8-33=-16217, 8-9=-16217, 9-10=4
Drag: 14-20=1302
Trapezoidal Loads (plf)
Vert: 1=-129-to-30=-57, 33=-57-to-9=-129

75) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 30-33=-53, 10-21=-27
Horz: 1-21=-4, 1-3=16194, 3-30=16194, 4-30=16194, 4-31=16194, 5-31=16194, 5-32=16194, 6-32=16194, 6-7=16194, 7-33=16194, 8-33=16194, 8-9=16194, 9-10=-19
Drag: 14-20=-1302
Trapezoidal Loads (plf)
Vert: 1=-125-to-30=-53, 33=-53-to-9=-125

76) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 30-33=-67, 10-21=-27
Horz: 1-21=-4, 1-3=-16206, 3-30=-16207, 4-30=-16206, 4-31=-16206, 5-31=-16206, 5-32=-16206, 6-32=-16207, 6-7=-16206, 7-33=-16206, 8-33=-16206, 8-9=-16206, 9-10=-19
Drag: 14-20=1302
Trapezoidal Loads (plf)
Vert: 1=-139-to-30=-67, 33=-67-to-9=-139

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T1S	GABLE	1	1	I53978415
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:27:08 2022 Page 1
ID:qEM?Ic9UmTPCdQUz4LE1lUyj1bn-1skiX49ouyiteqc0m25stkCmNvqpxQywgdLCn2yiGzH

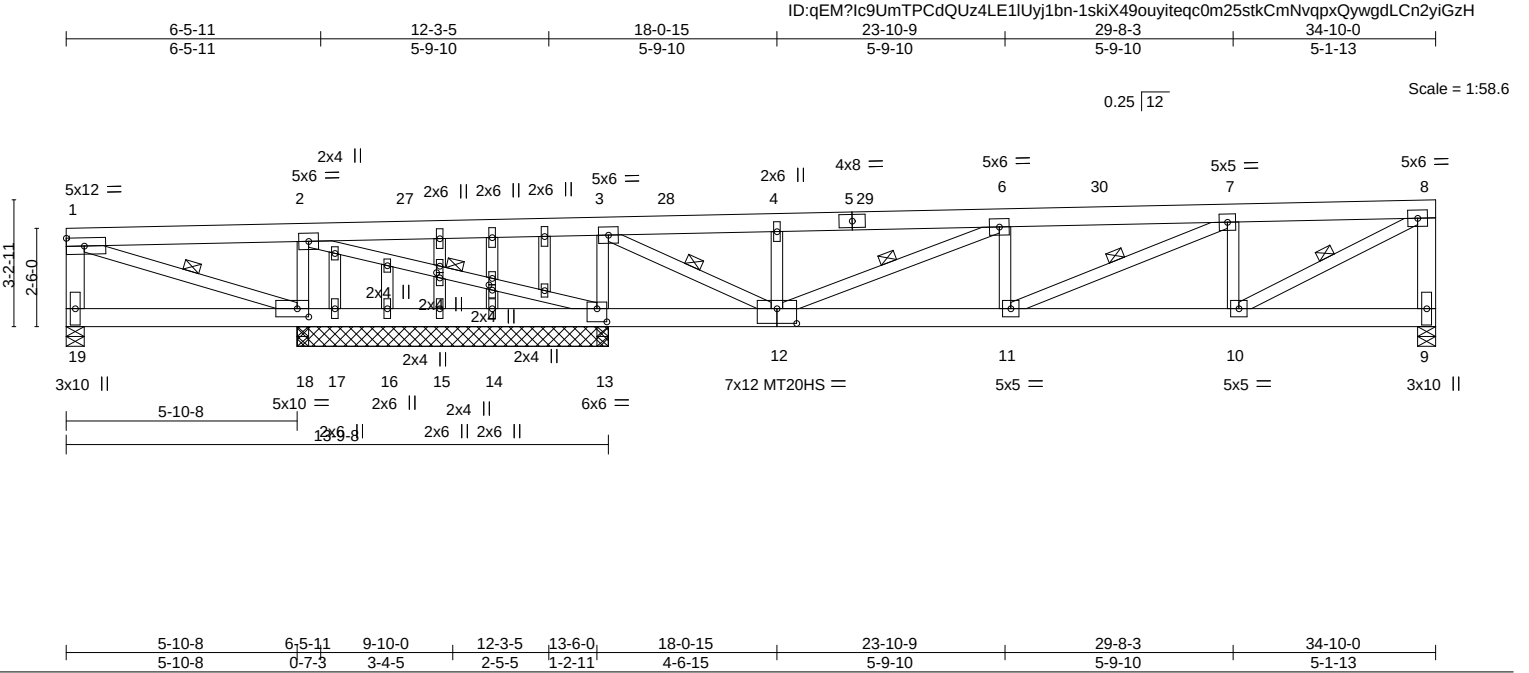

Plate Offsets (X,Y)-- [12:0-6-0,0-4-8], [13:0-3-0,0-4-0], [18:0-3-8,0-2-8], [22:0-1-10,0-1-0], [24:0-1-10,0-1-0]

LOADING (psf)		**SPACING-**	2-8-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.10	11	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.16	10-11	>999	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.09	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 249 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1 *Except* 12-19: 2x6 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* 1-19,8-9: 2x6 SP No.1
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-5-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-11-1 oc bracing.
WEBS	1 Row at midpt 1-18, 2-13, 3-12, 6-12, 7-11, 8-10

REACTIONS. All bearings 7-11-0 except (jt=length) 19=0-5-8, 9=0-5-8.
(lb) - Max Horz 19=483(LC 48)
Max Uplift All uplift 100 lb or less at joint(s) 15 except 19=-1595(LC 45), 9=-976(LC 54), 18=-717(LC 54), 13=-386(LC 45), 14=-128(LC 37), 17=-231(LC 7)
Max Grav All reactions 250 lb or less at joint(s) 14, 15, 16, 17 except 19=1651(LC 52), 9=1917(LC 37), 18=1421(LC 37), 18=969(LC 1), 13=2157(LC 22), 13=1916(LC 1)

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

TOP CHORD	1-19=-1550/1612, 1-2=-4185/4277, 2-3=-4839/5058, 3-4=-3665/3386, 4-6=-2038/1770, 6-7=-3207/2348, 7-8=-2892/2224, 8-9=-1832/1325
BOT CHORD	18-19=-419/401, 17-18=-4027/3879, 16-17=-2417/2269, 15-16=-3261/3113, 14-15=-5816/5711, 13-14=-11468/11320, 12-13=-8823/8584, 11-12=-4638/5167, 10-11=-2290/2898
WEBS	1-18=-4607/4514, 2-13=-3396/3257, 3-12=-2971/3659, 4-12=-402/244, 6-12=-3394/3108, 6-11=-988/1183, 7-11=-2583/2724, 7-10=-1446/1344, 8-10=-2532/3209, 3-13=-2273/1804, 2-18=-1195/1223

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 19-7-4, Corner(3) 19-7-4 to 34-7-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) Gable studs spaced at 1-4-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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September 2,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15 except (jt=lb) 19=1595, 9=976, 18=717, 13=386, 14=128, 17=231.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 35, 36, 37, 38, 39, 40, 69, 70, 71, 72, 73, 74, 75, 76 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) This truss has been designed for a total drag load of 450 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 5-10-8 to 13-9-8 for 1980.0 plf.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 27-30=-80, 9-19=-27
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-27=-80, 30=-80-to-8=-176
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 27-30=-67, 9-19=-27
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-27=-67, 30=-67-to-8=-139
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 27-30=-77, 9-19=-27
   Trapezoidal Loads (plf)
   Vert: 1=-149-to-27=-77, 30=-77-to-8=-149
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 27-30=-39, 9-19=-27
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-27=-39, 30=-39-to-8=-111
22) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 27-30=-94, 9-19=-27
   Trapezoidal Loads (plf)
   Vert: 1=-190-to-27=-94, 30=-94-to-8=-190
23) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 27-30=-43, 9-19=-27
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-27=-43, 30=-43-to-8=-139
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 27-30=-50, 9-19=-27
   Horz: 1-19=24, 1-8=-17, 8-9=6
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-27=-50, 30=-50-to-8=-122
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 27-30=-60, 9-19=-27
   Horz: 1-19=-6, 1-8=-6, 8-9=-24
   Trapezoidal Loads (plf)
   Vert: 1=-132-to-27=-60, 30=-60-to-8=-132
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 27-30=-50, 9-19=-27
   Horz: 1-19=19, 1-8=-17, 8-9=4
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-27=-50, 30=-50-to-8=-122
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 27-30=-60, 9-19=-27
   Horz: 1-19=-4, 1-8=-6, 8-9=-19
   Trapezoidal Loads (plf)
   Vert: 1=-132-to-27=-60, 30=-60-to-8=-132
35) Dead + 0.75 Snow (balanced) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 27-30=-60, 9-19=-27
   Horz: 1-2=16200, 2-27=16200, 27-28=16200, 4-28=16200, 4-29=16200, 5-29=16201, 5-6=16200, 6-30=16200, 7-30=16200, 7-8=16200
   Drag: 13-18=-1485
   Trapezoidal Loads (plf)
   Vert: 1=-132-to-27=-60, 30=-60-to-8=-132
36) Dead + 0.75 Snow (balanced) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 27-30=-74, 9-19=-27
Horz: 1-2=-16200, 2-27=-16200, 27-28=-16200, 4-28=-16200, 4-29=-16200, 5-29=-16201, 5-6=-16200, 6-30=-16200, 7-30=-16200, 7-8=-16200
Drag: 13-18=1485
Trapezoidal Loads (plf)
Vert: 1=-146-to-27=-74, 30=-74-to-8=-146

37) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 27-30=-70, 9-19=-27
Horz: 1-2=16200, 2-27=16200, 27-28=16200, 4-28=16200, 4-29=16200, 5-29=16201, 5-6=16200, 6-30=16200, 7-30=16200, 7-8=16200
Drag: 13-18=-1485
Trapezoidal Loads (plf)
Vert: 1=-142-to-27=-70, 30=-70-to-8=-142

38) Dead + 0.75 Snow (Unbal. Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 27-30=-84, 9-19=-27
Horz: 1-2=-16200, 2-27=-16200, 27-28=-16200, 4-28=-16200, 4-29=-16200, 5-29=-16201, 5-6=-16200, 6-30=-16200, 7-30=-16200, 7-8=-16200
Drag: 13-18=1485
Trapezoidal Loads (plf)
Vert: 1=-156-to-27=-84, 30=-84-to-8=-156

39) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 27-30=-32, 9-19=-27
Horz: 1-2=16200, 2-27=16200, 27-28=16200, 4-28=16200, 4-29=16200, 5-29=16201, 5-6=16200, 6-30=16200, 7-30=16200, 7-8=16200
Drag: 13-18=-1485
Trapezoidal Loads (plf)
Vert: 1=-104-to-27=-32, 30=-32-to-8=-104

40) Dead + 0.75 Snow (Unbal. Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 27-30=-46, 9-19=-27
Horz: 1-2=-16200, 2-27=-16200, 27-28=-16200, 4-28=-16200, 4-29=-16200, 5-29=-16201, 5-6=-16200, 6-30=-16200, 7-30=-16200, 7-8=-16200
Drag: 13-18=1485
Trapezoidal Loads (plf)
Vert: 1=-118-to-27=-46, 30=-46-to-8=-118

69) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 27-30=-43, 9-19=-27
Horz: 1-19=24, 1-2=16184, 2-27=16184, 27-28=16184, 4-28=16184, 4-29=16183, 5-29=16184, 5-6=16184, 6-30=16184, 7-30=16184, 7-8=16184, 8-9=6
Drag: 13-18=-1485
Trapezoidal Loads (plf)
Vert: 1=-115-to-27=-43, 30=-43-to-8=-115

70) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 27-30=-57, 9-19=-27
Horz: 1-19=24, 1-2=-16217, 2-27=-16217, 27-28=-16217, 4-28=-16217, 4-29=-16217, 5-29=-16217, 5-6=-16217, 6-30=-16217, 7-30=-16217, 7-8=-16217, 8-9=6
Drag: 13-18=1485
Trapezoidal Loads (plf)
Vert: 1=-129-to-27=-57, 30=-57-to-8=-129

71) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 27-30=-53, 9-19=-27
Horz: 1-19=-6, 1-2=16194, 2-27=16194, 27-28=16194, 4-28=16194, 4-29=16194, 5-29=16194, 5-6=16194, 6-30=16194, 7-30=16194, 7-8=16194, 8-9=-24
Drag: 13-18=-1485
Trapezoidal Loads (plf)
Vert: 1=-125-to-27=-53, 30=-53-to-8=-125

72) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 27-30=-67, 9-19=-27
Horz: 1-19=-6, 1-2=-16206, 2-27=-16206, 27-28=-16206, 4-28=-16206, 4-29=-16206, 5-29=-16207, 5-6=-16206, 6-30=-16206, 7-30=-16206, 7-8=-16206, 8-9=-24
Drag: 13-18=1485
Trapezoidal Loads (plf)
Vert: 1=-139-to-27=-67, 30=-67-to-8=-139

73) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 27-30=-43, 9-19=-27
Horz: 1-19=19, 1-2=16184, 2-27=16184, 27-28=16184, 4-28=16184, 4-29=16183, 5-29=16184, 5-6=16184, 6-30=16184, 7-30=16184, 7-8=16184, 8-9=4
Drag: 13-18=-1485
Trapezoidal Loads (plf)
Vert: 1=-115-to-27=-43, 30=-43-to-8=-115

Continued on page 4

LOAD CASE(S) Standard

74) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 27-30=-57, 9-19=-27
Horz: 1-19=19, 1-2=-16217, 2-27=-16217, 27-28=-16217, 4-28=-16217, 4-29=-16217, 5-29=-16217, 5-6=-16217, 6-30=-16217, 7-30=-16217, 7-8=-16217, 8-9=4
Drag: 13-18=1485
Trapezoidal Loads (plf)
Vert: 1=-129-to-27=-57, 30=-57-to-8=-129

75) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 27-30=-53, 9-19=-27
Horz: 1-19=-4, 1-2=16194, 2-27=16194, 27-28=16194, 4-28=16194, 4-29=16194, 5-29=16194, 5-6=16194, 6-30=16194, 7-30=16194, 7-8=16194, 8-9=-19
Drag: 13-18=-1485
Trapezoidal Loads (plf)
Vert: 1=-125-to-27=-53, 30=-53-to-8=-125

76) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 27-30=-67, 9-19=-27
Horz: 1-19=-4, 1-2=-16206, 2-27=-16206, 27-28=-16206, 4-28=-16206, 4-29=-16206, 5-29=-16207, 5-6=-16206, 6-30=-16206, 7-30=-16206, 7-8=-16206, 8-9=-19
Drag: 13-18=1485
Trapezoidal Loads (plf)
Vert: 1=-139-to-27=-67, 30=-67-to-8=-139

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T2	ROOF SPECIAL	2	2	I53978416
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:27:10 2022 Page 1
ID:qEM?Ic9UmTPCdQUz4LE1lUyj1bn-_EsTymA3Qaybt8mPtT7Kz9I5kjXvPO7D8xqJrwyiGzF

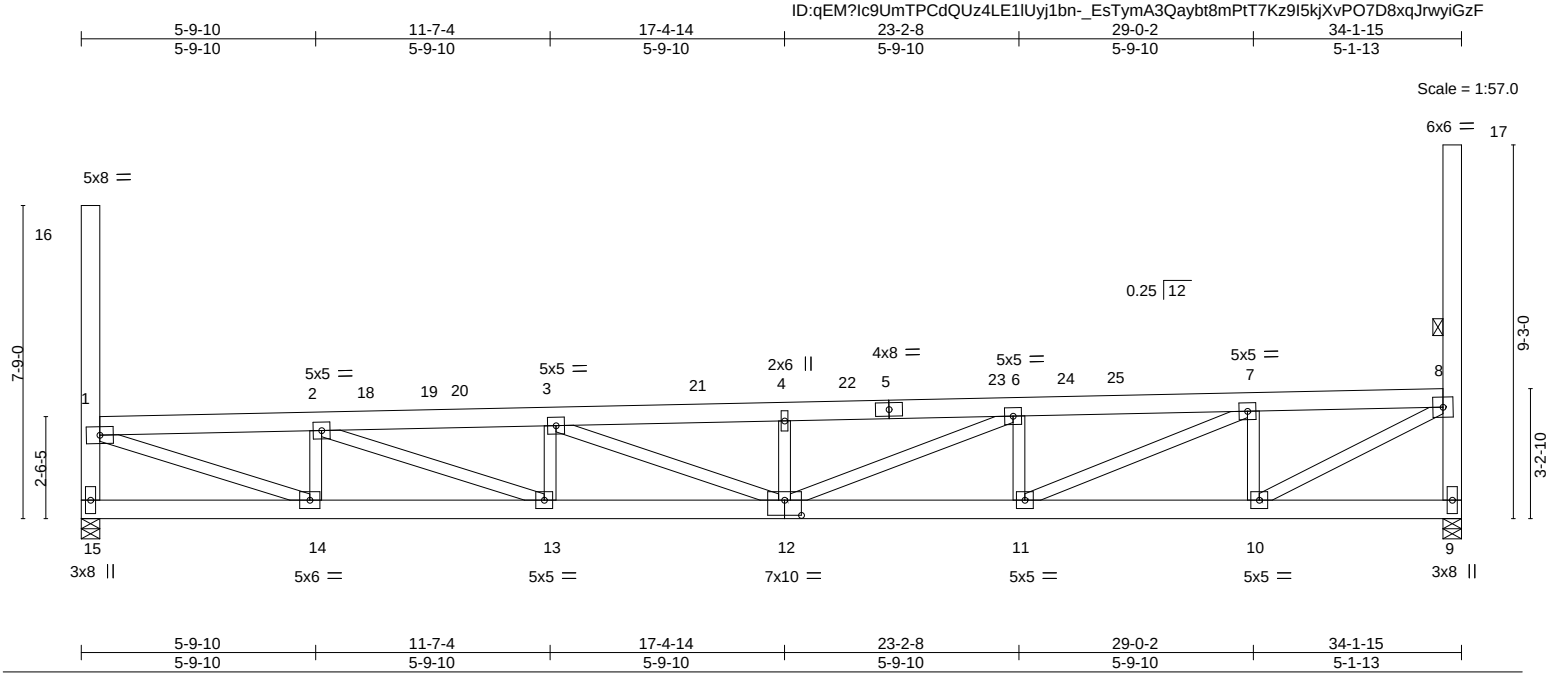

Plate Offsets (X,Y)-- [12:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.29	12-13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.51	12-13	>797	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.07	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 520 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
15-16,9-17: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-9 oc purlins, except end verticals. Except:
6-0-0 oc bracing: 8-9
10-0-0 oc bracing: 8-17
BOT CHORD Rigid ceiling directly applied or 9-4-8 oc bracing.
WEBS 1 Row at midpt 8-17

REACTIONS. (size) 15=0-5-8, 9=0-5-8
Max Horz 15=778(LC 13)
Max Uplift 15=-216(LC 12), 9=-110(LC 16)
Max Grav 15=2684(LC 22), 9=2564(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-2547/995, 1-2=-5569/2218, 2-3=-8019/2629, 3-4=-8217/2726, 4-6=-8217/2734, 6-7=-6883/2645, 7-8=-3947/1974, 8-9=-2468/993
BOT CHORD 14-15=-1659/1604, 13-14=-2960/5558, 12-13=-3361/8007, 11-12=-2195/6875, 10-11=-1421/3938, 9-10=-399/522
WEBS 1-14=-2189/5615, 2-14=-1868/853, 2-13=-1402/2615, 3-13=-756/589, 3-12=-471/389, 4-12=-515/314, 6-12=-899/1457, 6-11=-1194/747, 7-11=-1529/3231, 7-10=-2012/793, 8-10=-1522/4351

NOTES-
1) 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.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 18-11-3, Corner(3) 18-11-3 to 33-11-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=216, 9=110.

September 2,2022

Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 210 lb down and 62 lb up at 7-0-3, 210 lb down and 62 lb up at 9-4-1, and 70 lb down and 21 lb up at 22-7-10, and 70 lb down and 21 lb up at 24-4-2 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-25=-80, 9-15=-27
   Concentrated Loads (lb)
   Vert: 18=-150 20=-150 23=-50 24=-50
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-19=-80, 25=-80-to-8=-176
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-25=-67, 9-15=-27
   Concentrated Loads (lb)
   Vert: 18=-131 20=-131 23=-44 24=-44
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-19=-67, 25=-67-to-8=-139
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-25=-77, 9-15=-27
   Concentrated Loads (lb)
   Vert: 18=-131 20=-131 23=-44 24=-44
   Trapezoidal Loads (plf)
   Vert: 1=-149-to-19=-77, 25=-77-to-8=-149
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-25=-39, 9-15=-27
   Concentrated Loads (lb)
   Vert: 18=-92 20=-92 23=-31 24=-31
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-19=-39, 25=-39-to-8=-111
22) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-25=-93, 9-15=-27
   Concentrated Loads (lb)
   Vert: 18=-150 20=-150 23=-50 24=-50
   Trapezoidal Loads (plf)
   Vert: 1=-189-to-19=-93, 25=-93-to-8=-189
23) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-25=-43, 9-15=-27
   Concentrated Loads (lb)
   Vert: 18=-98 20=-98 23=-33 24=-33
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-19=-43, 25=-43-to-8=-139
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 19-25=-50, 9-15=-27
   Horz: 1-15=24, 1-16=50, 1-8=-17, 8-9=6, 8-17=34
   Concentrated Loads (lb)
   Vert: 18=-210 20=-210 23=-70 24=-70
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-19=-50, 25=-50-to-8=-122
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 19-25=-60, 9-15=-27
   Horz: 1-15=-6, 1-16=-33, 1-8=-6, 8-9=-24, 8-17=-51
   Concentrated Loads (lb)
   Vert: 18=-140 20=-140 23=-47 24=-47
   Trapezoidal Loads (plf)
   Vert: 1=-132-to-19=-60, 25=-60-to-8=-132
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 19-25=-50, 9-15=-27
   Horz: 1-15=19, 1-16=-33, 1-8=-17, 8-9=4, 8-17=34
   Concentrated Loads (lb)
   Vert: 18=-187 20=-187 23=-62 24=-62
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-19=-50, 25=-50-to-8=-122
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 19-25=-60, 9-15=-27

Horz: 1-15=-4, 1-16=-33, 1-8=-6, 8-9=-19, 8-17=34

Concentrated Loads (lb)

Vert: 18=-187 20=-187 23=-62 24=-62

Trapezoidal Loads (plf)

Vert: 1=-132-to-19=-60, 25=-60-to-8=-132

33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 19-25=-80, 9-15=-27

Concentrated Loads (lb)

Vert: 18=-150 20=-150 23=-50 24=-50

Trapezoidal Loads (plf)

Vert: 1=-176-to-19=-80, 25=-80-to-8=-176

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T2A	ROOF SPECIAL	2	2	I53978417

Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:27:21 2022 Page 1
ID:qEM?Ic9UmTPCdQUz4LE1lUyj1bn-9M0dGXJyqyL1iq5W1HqvvTF0G8HPUPfrf8?OkoyiGz4

5-9-10	11-7-5	17-4-15	23-2-10	29-0-4	34-9-15
5-9-10	5-9-10	5-9-10	5-9-11	5-9-11	5-9-11

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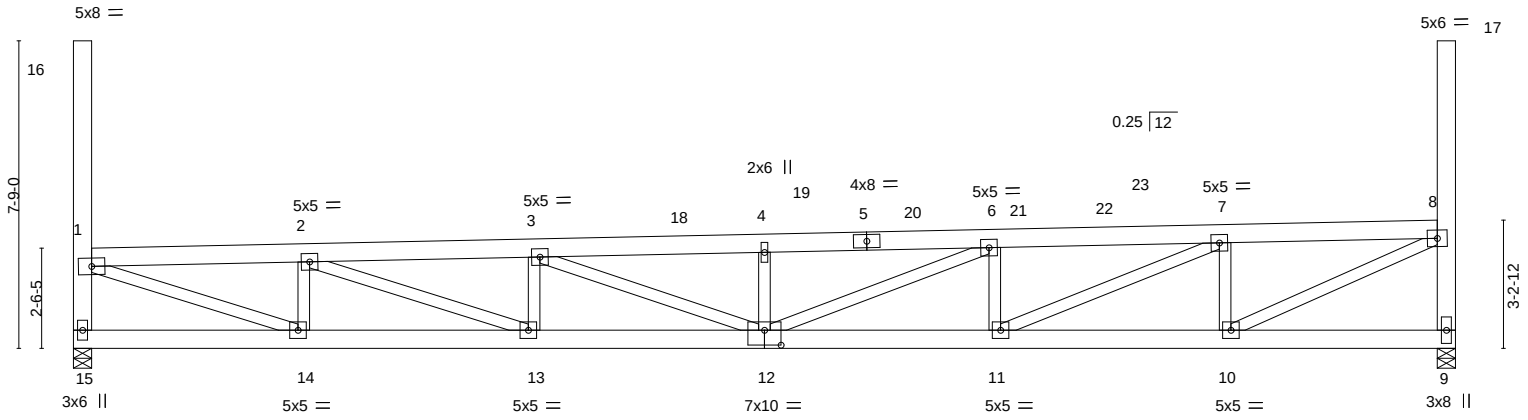

5-9-10	11-7-5	17-4-15	23-2-10	29-0-4	34-9-15
5-9-10	5-9-10	5-9-10	5-9-11	5-9-11	5-9-11

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

LOADING (psf)		**SPACING-**	2-8-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.27	12	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.49	12	>850	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.06	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 521 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
15-16,9-17: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-7-12 oc bracing.

REACTIONS. (size) 15=0-5-8, 9=0-5-8
Max Horz 15=676(LC 15)
Max Uplift 15=-189(LC 12), 9=-130(LC 16)
Max Grav 15=2122(LC 22), 9=2209(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-2002/890, 1-2=-4605/2100, 2-3=-7151/2606, 3-4=-7763/2508, 4-6=-7763/2517, 6-7=-6727/2437, 7-8=-4002/1798, 8-9=-2107/934
BOT CHORD 14-15=-1503/1498, 13-14=-2683/4598, 12-13=-3179/7144, 11-12=-2441/6719, 10-11=-1354/3996, 9-10=-219/267
WEBS 1-14=-1894/4666, 2-14=-1514/746, 2-13=-1328/2719, 3-13=-797/563, 3-12=-561/669, 4-12=-548/328, 6-12=-690/1132, 6-11=-1094/654, 7-11=-1331/2995, 7-10=-1798/829, 8-10=-1667/4322

NOTES-
1) 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.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 19-7-3, Corner(3) 19-7-3 to 34-7-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=189, 9=130.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI

Continued on page 2

STATE OF MISSOURI
ANDREW THOMAS JOHNSON
NUMBER PE-2017018993
PROFESSIONAL ENGINEER

September 2,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 70 lb down and 20 lb up at 21-1-7, 70 lb down and 20 lb up at 23-9-7, and 70 lb down and 20 lb up at 25-11-7, and 70 lb down and 20 lb up at 28-7-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-8=-80, 9-15=-27
   Concentrated Loads (lb)
   Vert: 20=-50 21=-50 22=-50 23=-50

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T2B	ROOF SPECIAL	1	2	I53978418
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:27:23 2022 Page 1
ID:qEM?Ic9UmTPCdQUz4LE1lUyj1bn-5l8NhCKCMZblx8Fv8isN_uKJSyyryHF87SUVogyiGz2

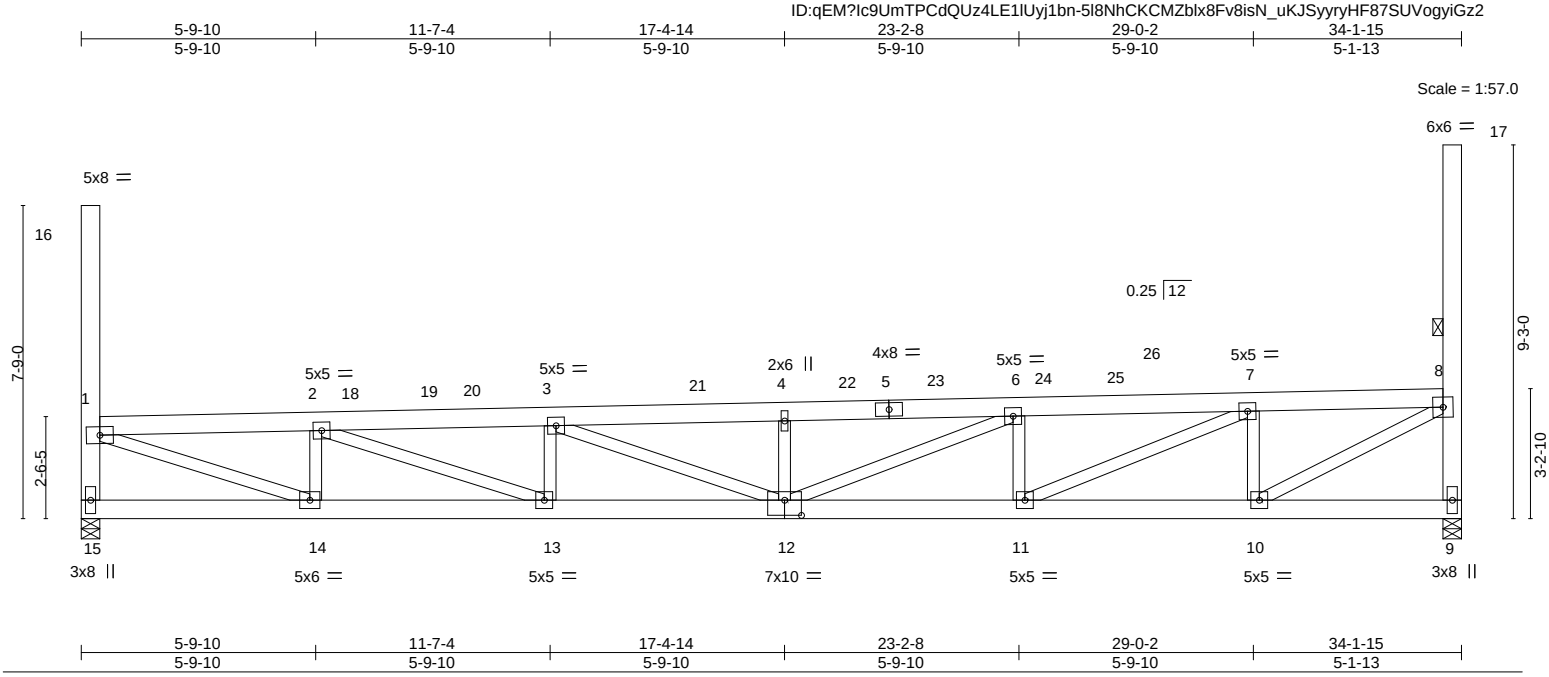

Plate Offsets (X,Y)-- [12:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.30	12-13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.52	12-13	>783	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.07	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 520 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
15-16,9-17: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-8 oc purlins, except end verticals. Except:
6-0-0 oc bracing: 8-9
10-0-0 oc bracing: 8-17
BOT CHORD Rigid ceiling directly applied or 9-3-13 oc bracing.
WEBS 1 Row at midpt 8-17

REACTIONS. (size) 15=0-5-8, 9=0-5-8
Max Horz 15=778(LC 15)
Max Uplift 15=-217(LC 12), 9=-125(LC 16)
Max Grav 15=2707(LC 22), 9=2641(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-2569/1003, 1-2=-5617/2238, 2-3=-8119/2670, 3-4=-8375/2787, 4-6=-8374/2795, 6-7=-7062/2715, 7-8=-4091/2030, 8-9=-2543/1024
BOT CHORD 14-15=-1661/1603, 13-14=-2980/5606, 12-13=-3402/8107, 11-12=-2269/7054, 10-11=-1477/4083, 9-10=-397/521
WEBS 1-14=-2207/5662, 2-14=-1885/860, 2-13=-1423/2671, 3-13=-775/597, 3-12=-496/401, 4-12=-529/319, 6-12=-890/1434, 6-11=-1209/754, 7-11=-1545/3269, 7-10=-2094/827, 8-10=-1590/4514

NOTES-
1) 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.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 18-11-3, Corner(3) 18-11-3 to 33-11-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=217, 9=125.

Continued on page 2

September 2,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 210 lb down and 62 lb up at 6-7-9, 210 lb down and 62 lb up at 9-7-12, 70 lb down and 21 lb up at 21-1-7, 70 lb down and 21 lb up at 23-9-7, and 70 lb down and 21 lb up at 25-11-7, and 70 lb down and 21 lb up at 28-10-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-25=-80, 9-15=-27
   Concentrated Loads (lb)
   Vert: 7=-50 18=-150 20=-150 23=-50 24=-50 26=-50
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-19=-80, 25=-80-to-8=-176
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-25=-67, 9-15=-27
   Concentrated Loads (lb)
   Vert: 7=-44 18=-131 20=-131 23=-44 24=-44 26=-44
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-19=-67, 25=-67-to-8=-139
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-25=-77, 9-15=-27
   Concentrated Loads (lb)
   Vert: 7=-44 18=-131 20=-131 23=-44 24=-44 26=-44
   Trapezoidal Loads (plf)
   Vert: 1=-149-to-19=-77, 25=-77-to-8=-149
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-25=-39, 9-15=-27
   Concentrated Loads (lb)
   Vert: 7=-31 18=-92 20=-92 23=-31 24=-31 26=-31
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-19=-39, 25=-39-to-8=-111
22) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-25=-93, 9-15=-27
   Concentrated Loads (lb)
   Vert: 7=-50 18=-150 20=-150 23=-50 24=-50 26=-50
   Trapezoidal Loads (plf)
   Vert: 1=-189-to-19=-93, 25=-93-to-8=-189
23) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-25=-43, 9-15=-27
   Concentrated Loads (lb)
   Vert: 7=-33 18=-98 20=-98 23=-33 24=-33 26=-33
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-19=-43, 25=-43-to-8=-139
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 19-25=-50, 9-15=-27
   Horz: 1-15=24, 1-16=50, 1-8=-17, 8-9=6, 8-17=34
   Concentrated Loads (lb)
   Vert: 7=-70 18=-210 20=-210 23=-70 24=-70 26=-70
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-19=-50, 25=-50-to-8=-122
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 19-25=-60, 9-15=-27
   Horz: 1-15=-6, 1-16=-33, 1-8=-6, 8-9=-24, 8-17=-51
   Concentrated Loads (lb)
   Vert: 7=-47 18=-140 20=-140 23=-47 24=-47 26=-47
   Trapezoidal Loads (plf)
   Vert: 1=-132-to-19=-60, 25=-60-to-8=-132
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 19-25=-50, 9-15=-27
   Horz: 1-15=19, 1-16=-33, 1-8=-17, 8-9=4, 8-17=34
   Concentrated Loads (lb)
   Vert: 7=-62 18=-187 20=-187 23=-62 24=-62 26=-62
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-19=-50, 25=-50-to-8=-122
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 19-25=-60, 9-15=-27

Horz: 1-15=-4, 1-16=-33, 1-8=-6, 8-9=-19, 8-17=34

Concentrated Loads (lb)

Vert: 7=-62 18=-187 20=-187 23=-62 24=-62 26=-62

Trapezoidal Loads (plf)

Vert: 1=-132-to-19=-60, 25=-60-to-8=-132

33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 19-25=-80, 9-15=-27

Concentrated Loads (lb)

Vert: 7=-50 18=-150 20=-150 23=-50 24=-50 26=-50

Trapezoidal Loads (plf)

Vert: 1=-176-to-19=-80, 25=-80-to-8=-176

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T2C	ROOF SPECIAL	2	2	I53978419
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:27:25 2022 Page 1
ID:qEM?Ic9UmTPCdQUz4LE1lUyj1bn-17G76uMTuBrTASPHG6ur4JPfxmdHQBpRamzctZyiGz0

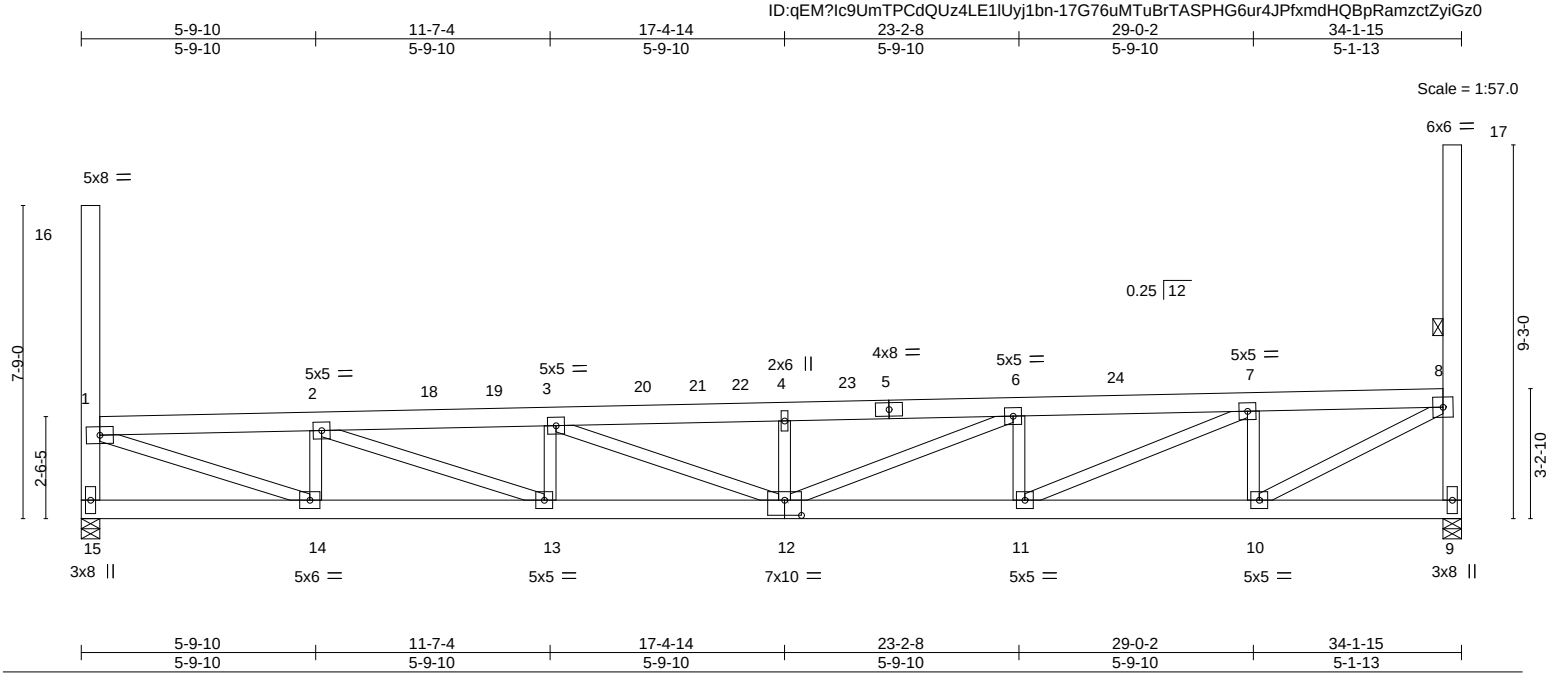

Plate Offsets (X,Y)-- [12:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.29	12-13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.51	12-13	>792	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.07	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 520 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
15-16,9-17: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-10 oc purlins, except end verticals. Except:
6-0-0 oc bracing: 8-9
10-0-0 oc bracing: 8-17
BOT CHORD Rigid ceiling directly applied or 9-3-13 oc bracing.
WEBS 1 Row at midpt 8-17

REACTIONS. (size) 15=0-5-8, 9=0-5-8
Max Horz 15=778(LC 13)
Max Uplift 15=-218(LC 12), 9=-105(LC 16)
Max Grav 15=2711(LC 22), 9=2537(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-2574/1005, 1-2=-5597/2230, 2-3=-8119/2671, 3-4=-8302/2758, 4-6=-8301/2767, 6-7=-6783/2607, 7-8=-3895/1954, 8-9=-2441/981
BOT CHORD 14-15=-1664/1600, 13-14=-2972/5585, 12-13=-3404/8110, 11-12=-2154/6776, 10-11=-1401/3887, 9-10=-399/522
WEBS 1-14=-2196/5632, 2-14=-1873/855, 2-13=-1434/2697, 3-13=-784/600, 3-12=-463/398, 4-12=-591/345, 6-12=-982/1656, 6-11=-1167/736, 7-11=-1507/3179, 7-10=-1985/782, 8-10=-1498/4292

NOTES-
1) 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.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 18-11-3, Corner(3) 18-11-3 to 33-11-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=218, 9=105.

September 2,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 210 lb down and 62 lb up at 6-1-0, 210 lb down and 62 lb up at 10-2-5, and 70 lb down and 21 lb up at 13-10-7, and 70 lb down and 21 lb up at 16-3-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 18-24=-80, 9-15=-27
   Concentrated Loads (lb)
   Vert: 2=-150 19=-150 20=-50 22=-50
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-18=-80, 24=-80-to-8=-176
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 18-24=-67, 9-15=-27
   Concentrated Loads (lb)
   Vert: 2=-131 19=-131 20=-44 22=-44
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-18=-67, 24=-67-to-8=-139
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 18-24=-77, 9-15=-27
   Concentrated Loads (lb)
   Vert: 2=-131 19=-131 20=-44 22=-44
   Trapezoidal Loads (plf)
   Vert: 1=-149-to-18=-77, 24=-77-to-8=-149
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 18-24=-39, 9-15=-27
   Concentrated Loads (lb)
   Vert: 2=-92 19=-92 20=-31 22=-31
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-18=-39, 24=-39-to-8=-111
22) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 18-24=-93, 9-15=-27
   Concentrated Loads (lb)
   Vert: 2=-150 19=-150 20=-50 22=-50
   Trapezoidal Loads (plf)
   Vert: 1=-189-to-18=-93, 24=-93-to-8=-189
23) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 18-24=-43, 9-15=-27
   Concentrated Loads (lb)
   Vert: 2=-98 19=-98 20=-33 22=-33
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-18=-43, 24=-43-to-8=-139
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 18-24=-50, 9-15=-27
   Horz: 1-15=24, 1-16=50, 1-8=-17, 8-9=6, 8-17=34
   Concentrated Loads (lb)
   Vert: 2=-210 19=-210 20=-70 22=-70
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-18=-50, 24=-50-to-8=-122
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 18-24=-60, 9-15=-27
   Horz: 1-15=-6, 1-16=-33, 1-8=-6, 8-9=-24, 8-17=-51
   Concentrated Loads (lb)
   Vert: 2=-140 19=-140 20=-47 22=-47
   Trapezoidal Loads (plf)
   Vert: 1=-132-to-18=-60, 24=-60-to-8=-132
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 18-24=-50, 9-15=-27
   Horz: 1-15=19, 1-16=-33, 1-8=-17, 8-9=4, 8-17=34
   Concentrated Loads (lb)
   Vert: 2=-187 19=-187 20=-62 22=-62
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-18=-50, 24=-50-to-8=-122
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 18-24=-60, 9-15=-27

Horz: 1-15=-4, 1-16=-33, 1-8=-6, 8-9=-19, 8-17=34

Concentrated Loads (lb)

Vert: 2=-187 19=-187 20=-62 22=-62

Trapezoidal Loads (plf)

Vert: 1=-132-to-18=-60, 24=-60-to-8=-132

33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 18-24=-80, 9-15=-27

Concentrated Loads (lb)

Vert: 2=-150 19=-150 20=-50 22=-50

Trapezoidal Loads (plf)

Vert: 1=-176-to-18=-80, 24=-80-to-8=-176

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T2D	ROOF SPECIAL	2	2	I53978420
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:27:26 2022 Page 1
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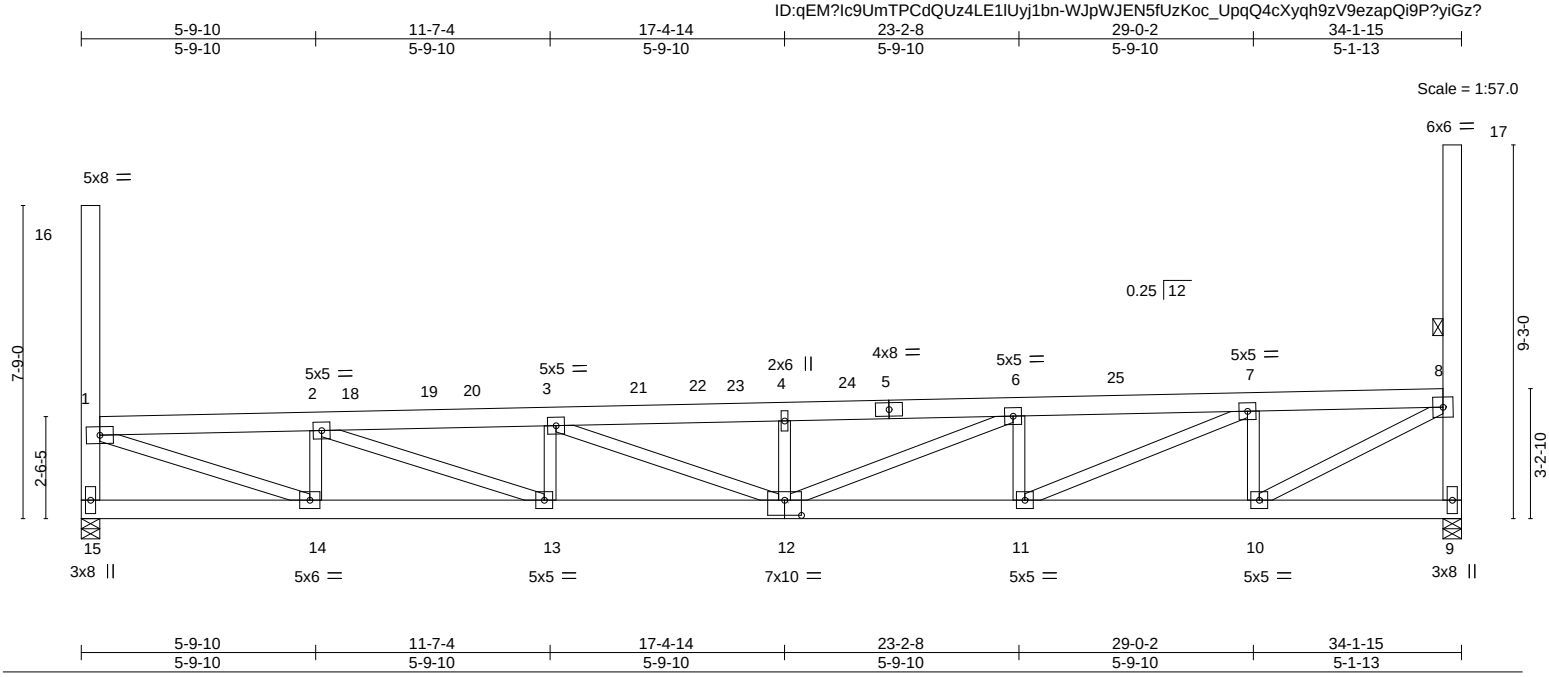

Plate Offsets (X,Y)-- [12:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.29	12-13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.51	12-13	>790	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.07	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 520 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
15-16,9-17: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-9 oc purlins, except end verticals. Except:
6-0-0 oc bracing: 8-9
10-0-0 oc bracing: 8-17
BOT CHORD Rigid ceiling directly applied or 9-3-9 oc bracing.
WEBS 1 Row at midpt 8-17

REACTIONS. (size) 15=0-5-8, 9=0-5-8
Max Horz 15=778(LC 13)
Max Uplift 15=-218(LC 12), 9=-105(LC 16)
Max Grav 15=2710(LC 22), 9=2538(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-2572/1005, 1-2=-5622/2240, 2-3=-8147/2682, 3-4=-8306/2759, 4-6=-8305/2768, 6-7=-6787/2608, 7-8=-3897/1954, 8-9=-2442/982
BOT CHORD 14-15=-1661/1602, 13-14=-2982/5610, 12-13=-3414/8135, 11-12=-2156/6780, 10-11=-1401/3888, 9-10=-399/522
WEBS 1-14=-2209/5665, 2-14=-1885/860, 2-13=-1434/2697, 3-13=-785/600, 3-12=-454/407, 4-12=-582/341, 6-12=-982/1656, 6-11=-1168/737, 7-11=-1509/3182, 7-10=-1986/782, 8-10=-1499/4294

NOTES-
1) 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.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 18-11-3, Corner(3) 18-11-3 to 33-11-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=218, 9=105.

September 2,2022

Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 210 lb down and 62 lb up at 6-7-9, 210 lb down and 62 lb up at 9-7-12, and 70 lb down and 21 lb up at 13-9-3, and 70 lb down and 21 lb up at 16-2-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-25=-80, 9-15=-27
   Concentrated Loads (lb)
   Vert: 18=-150 20=-150 21=-50 23=-50
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-19=-80, 25=-80-to-8=-176
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-25=-67, 9-15=-27
   Concentrated Loads (lb)
   Vert: 18=-131 20=-131 21=-44 23=-44
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-19=-67, 25=-67-to-8=-139
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-25=-77, 9-15=-27
   Concentrated Loads (lb)
   Vert: 18=-131 20=-131 21=-44 23=-44
   Trapezoidal Loads (plf)
   Vert: 1=-149-to-19=-77, 25=-77-to-8=-149
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-25=-39, 9-15=-27
   Concentrated Loads (lb)
   Vert: 18=-92 20=-92 21=-31 23=-31
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-19=-39, 25=-39-to-8=-111
22) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-25=-93, 9-15=-27
   Concentrated Loads (lb)
   Vert: 18=-150 20=-150 21=-50 23=-50
   Trapezoidal Loads (plf)
   Vert: 1=-189-to-19=-93, 25=-93-to-8=-189
23) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-25=-43, 9-15=-27
   Concentrated Loads (lb)
   Vert: 18=-98 20=-98 21=-33 23=-33
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-19=-43, 25=-43-to-8=-139
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 19-25=-50, 9-15=-27
   Horz: 1-15=24, 1-16=50, 1-8=-17, 8-9=6, 8-17=34
   Concentrated Loads (lb)
   Vert: 18=-210 20=-210 21=-70 23=-70
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-19=-50, 25=-50-to-8=-122
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 19-25=-60, 9-15=-27
   Horz: 1-15=-6, 1-16=-33, 1-8=-6, 8-9=-24, 8-17=-51
   Concentrated Loads (lb)
   Vert: 18=-140 20=-140 21=-47 23=-47
   Trapezoidal Loads (plf)
   Vert: 1=-132-to-19=-60, 25=-60-to-8=-132
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 19-25=-50, 9-15=-27
   Horz: 1-15=19, 1-16=-33, 1-8=-17, 8-9=4, 8-17=34
   Concentrated Loads (lb)
   Vert: 18=-187 20=-187 21=-62 23=-62
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-19=-50, 25=-50-to-8=-122
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 19-25=-60, 9-15=-27
Horz: 1-15=-4, 1-16=-33, 1-8=-6, 8-9=-19, 8-17=34

Concentrated Loads (lb)
Vert: 18=-187 20=-187 21=-62 23=-62

Trapezoidal Loads (plf)
Vert: 1=-132-to-19=-60, 25=-60-to-8=-132

33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)
Vert: 19-25=-80, 9-15=-27

Concentrated Loads (lb)
Vert: 18=-150 20=-150 21=-50 23=-50

Trapezoidal Loads (plf)
Vert: 1=-176-to-19=-80, 25=-80-to-8=-176

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T3	ROOF SPECIAL	3	2	I53978421

Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:27:28 2022 Page 1
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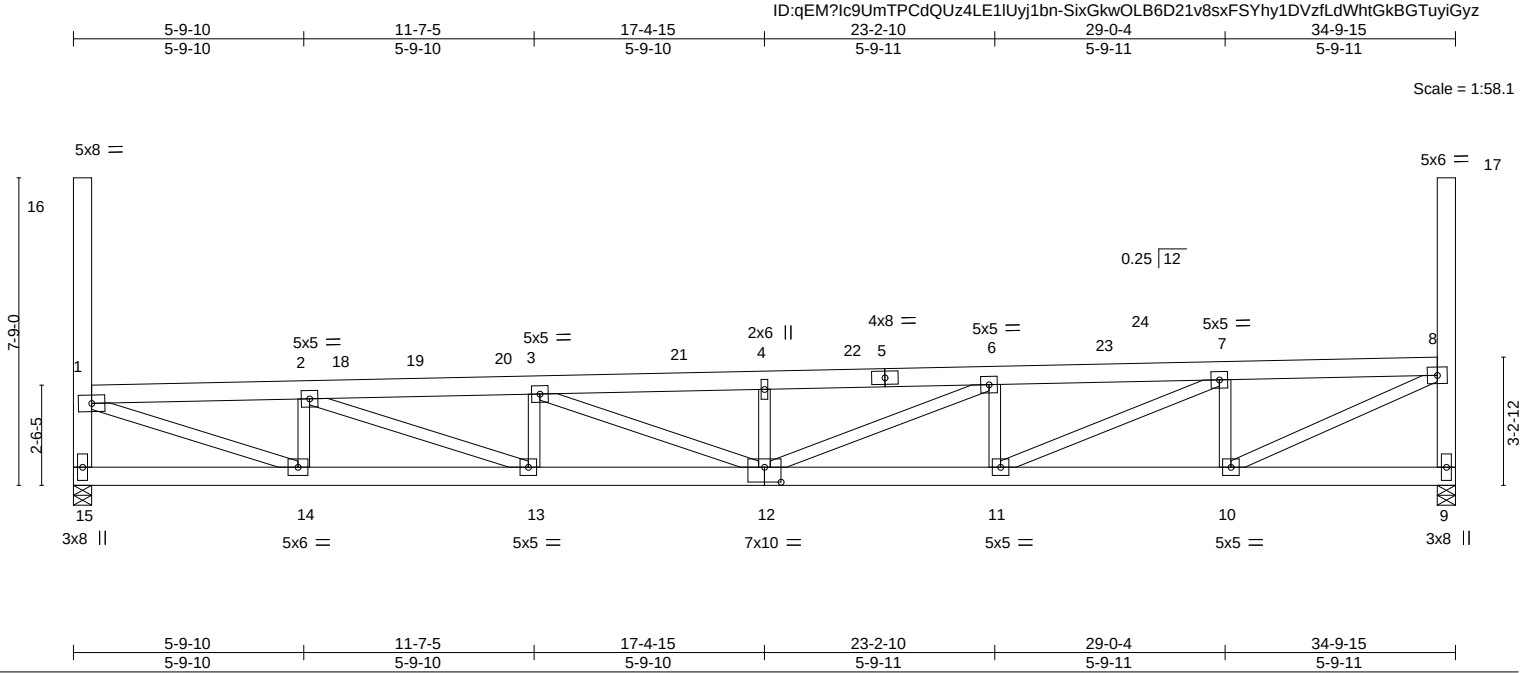


Plate Offsets (X,Y)-- [12:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.32	12-13	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.56	12-13	>730	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.07	9	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 521 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 15-16,9-17: 2x6 SP No.1

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-5-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 9-0-6 oc bracing.

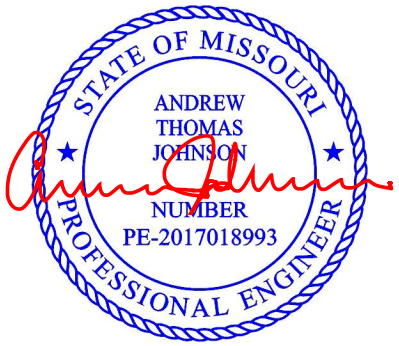
REACTIONS. (size) 15=0-5-8, 9=0-5-8
Max Horz 15=676(LC 13)
Max Uplift 15=-207(LC 12), 9=-141(LC 16)
Max Grav 15=2864(LC 22), 9=2669(LC 22)

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

TOP CHORD	1-15=-2722/1016, 1-2=-6016/2459, 2-3=-8721/3045, 3-4=-8829/2754, 4-6=-8829/2763, 6-7=-7421/2539, 7-8=-4557/1846, 8-9=-2558/957
BOT CHORD	14-15=-1510/1491, 13-14=-3042/6005, 12-13=-3617/8707, 11-12=-2548/7414, 10-11=-1401/4548, 9-10=-220/269
WEBS	1-14=-2252/6075, 2-14=-2031/875, 2-13=-1410/2886, 3-13=-853/593, 3-12=-552/410, 4-12=-512/310, 6-12=-841/1537, 6-11=-1153/680, 7-11=-1395/3153, 7-10=-2063/854, 8-10=-1721/4885

NOTES-

1) 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.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-2-12 to 15-2-12, Exterior(2) 15-2-12 to 19-7-3, Corner(3) 19-7-3 to 34-7-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=207, 9=141.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI



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MiTek
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NOTES-

12) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 351 lb down and 101 lb up at 6-8-7, 351 lb down and 101 lb up at 10-9-11, and 70 lb down and 20 lb up at 25-11-7, and 70 lb down and 20 lb up at 28-7-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-23=-80, 9-15=-27
   Concentrated Loads (lb)
   Vert: 18=-250 20=-250 23=-50 24=-50
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-19=-80, 23=-77-to-8=-176
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-23=-67, 9-15=-27
   Concentrated Loads (lb)
   Vert: 18=-219 20=-219 23=-44 24=-44
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-19=-67, 23=-64-to-8=-139
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-23=-77, 9-15=-27
   Concentrated Loads (lb)
   Vert: 18=-219 20=-219 23=-44 24=-44
   Trapezoidal Loads (plf)
   Vert: 1=-149-to-19=-77, 23=-74-to-8=-149
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-23=-39, 9-15=-27
   Concentrated Loads (lb)
   Vert: 18=-153 20=-153 23=-31 24=-31
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-19=-39, 23=-36-to-8=-111
22) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-23=-94, 9-15=-27
   Concentrated Loads (lb)
   Vert: 18=-250 20=-250 23=-50 24=-50
   Trapezoidal Loads (plf)
   Vert: 1=-190-to-19=-94, 23=-90-to-8=-190
23) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 19-23=-43, 9-15=-27
   Concentrated Loads (lb)
   Vert: 18=-163 20=-163 23=-33 24=-33
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-19=-43, 23=-39-to-8=-139
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 19-23=-50, 9-15=-27
   Horz: 1-15=24, 1-16=50, 1-8=-17, 8-9=6, 8-17=34
   Concentrated Loads (lb)
   Vert: 18=-351 20=-351 23=-70 24=-70
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-19=-50, 23=-47-to-8=-122
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 19-23=-60, 9-15=-27
   Horz: 1-15=-6, 1-16=-34, 1-8=-6, 8-9=-24, 8-17=-50
   Concentrated Loads (lb)
   Vert: 18=-233 20=-233 23=-47 24=-47
   Trapezoidal Loads (plf)
   Vert: 1=-132-to-19=-60, 23=-58-to-8=-132
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 19-23=-50, 9-15=-27
   Horz: 1-15=19, 1-16=-34, 1-8=-17, 8-9=4, 8-17=34
   Concentrated Loads (lb)
   Vert: 18=-311 20=-311 23=-62 24=-62
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-19=-50, 23=-47-to-8=-122
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 19-23=-60, 9-15=-27

Horz: 1-15=-4, 1-16=-34, 1-8=-6, 8-9=-19, 8-17=34

Concentrated Loads (lb)

Vert: 18=-311 20=-311 23=-62 24=-62

Trapezoidal Loads (plf)

Vert: 1=-132-to-19=-60, 23=-58-to-8=-132

33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 19-23=-80, 9-15=-27

Concentrated Loads (lb)

Vert: 18=-250 20=-250 23=-50 24=-50

Trapezoidal Loads (plf)

Vert: 1=-176-to-19=-80, 23=-77-to-8=-176

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S I53978422
MOBETTA	T3A	Jack-Closed	1	1	Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:27:30 2022 Page 1
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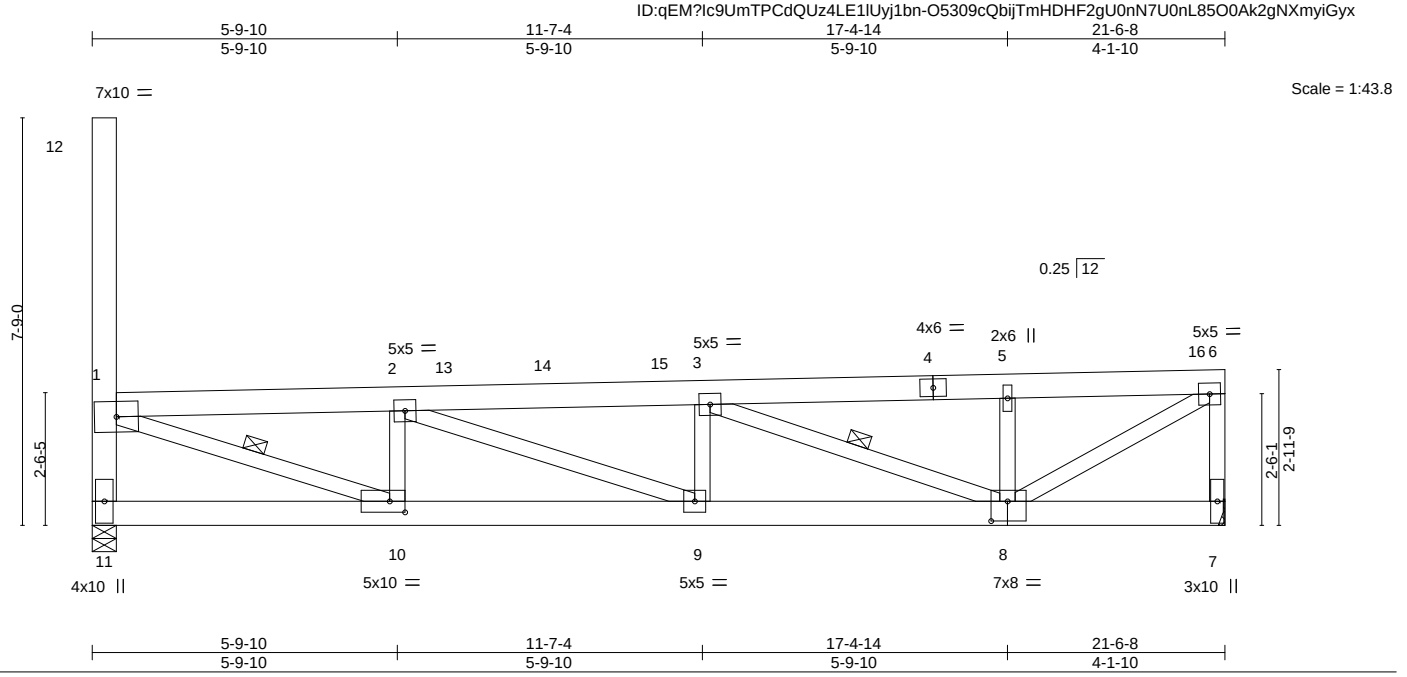

Plate Offsets (X,Y)-- [8:0-3-12,0-4-8], [10:0-3-8,0-2-8]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	0.18	9-10	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.28	9-10	>900	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.04	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-SH							Weight: 160 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 11-12: 2x6 SP 2400F 2.0E

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-11-1 oc bracing.
WEBS	1 Row at midpt 1-10, 3-8

REACTIONS. (size) 11=0-5-8, 7=Mechanical
Max Horz 11=468(LC 13)
Max Uplift 11=-166(LC 12), 7=-189(LC 16)
Max Grav 11=1902(LC 22), 7=1668(LC 22)

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

TOP CHORD	1-11=-1782/1012, 1-2=-3627/2393, 2-3=-4122/2443, 3-5=-2299/1291, 5-6=-2298/1300, 6-7=-1610/968
BOT CHORD	10-11=-1136/1461, 9-10=-2495/3617, 8-9=-2531/4110
WEBS	1-10=-2130/3604, 2-10=-1153/832, 2-9=-868/766, 3-9=-122/410, 3-8=-1955/1250, 5-8=-561/459, 6-8=-1552/2662

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
5) Plates checked for a plus or minus 3 degree rotation about its center.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
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) except (jt=lb) 11=166, 7=189.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 351 lb down and 141 lb up at 6-8-7, 351 lb down and 141 lb up at 10-9-11, and 140 lb down and 56 lb up at 17-7-3, and 140 lb down and 56 lb up at 21-0-5 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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MiTek
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Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-80, 7-11=-27
   Concentrated Loads (lb)
   Vert: 5=-100 13=-250 15=-250 16=-100
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-14=-80
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-67, 7-11=-27
   Concentrated Loads (lb)
   Vert: 5=-88 13=-219 15=-219 16=-88
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-14=-67
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-74, 7-11=-27
   Concentrated Loads (lb)
   Vert: 5=-88 13=-219 15=-219 16=-88
   Trapezoidal Loads (plf)
   Vert: 1=-146-to-14=-74
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-39, 7-11=-27
   Concentrated Loads (lb)
   Vert: 5=-61 13=-153 15=-153 16=-61
   Trapezoidal Loads (plf)
   Vert: 1=-111-to-14=-39
22) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-90, 7-11=-27
   Concentrated Loads (lb)
   Vert: 5=-100 13=-250 15=-250 16=-100
   Trapezoidal Loads (plf)
   Vert: 1=-186-to-14=-90
23) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 6-14=-43, 7-11=-27
   Concentrated Loads (lb)
   Vert: 5=-65 13=-163 15=-163 16=-65
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-14=-43
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-14=-50, 7-11=-27
   Horz: 1-11=24, 1-12=50, 1-6=-17, 6-7=6
   Concentrated Loads (lb)
   Vert: 5=-140 13=-351 15=-351 16=-140
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-14=-50
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-14=-60, 7-11=-27
   Horz: 1-11=-6, 1-12=-50, 1-6=-6, 6-7=-24
   Concentrated Loads (lb)
   Vert: 5=-93 13=-233 15=-233 16=-93
   Trapezoidal Loads (plf)
   Vert: 1=-132-to-14=-60
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-14=-50, 7-11=-27
   Horz: 1-11=19, 1-12=-34, 1-6=-17, 6-7=4
   Concentrated Loads (lb)
   Vert: 5=-105 13=-263 15=-263 16=-105
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-14=-50
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 6-14=-60, 7-11=-27
   Horz: 1-11=-4, 1-12=-34, 1-6=-6, 6-7=-19
   Concentrated Loads (lb)
   Vert: 5=-93 13=-233 15=-233 16=-93
   Trapezoidal Loads (plf)
   Vert: 1=-132-to-14=-60
33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 6-14=-80, 7-11=-27

Concentrated Loads (lb)

Vert: 5=-100 13=-250 15=-250 16=-100

Trapezoidal Loads (plf)

Vert: 1=-176-to-14=-80

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T3B	JACK-CLOSED	1	1	I53978423
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:27:31 2022 Page 1
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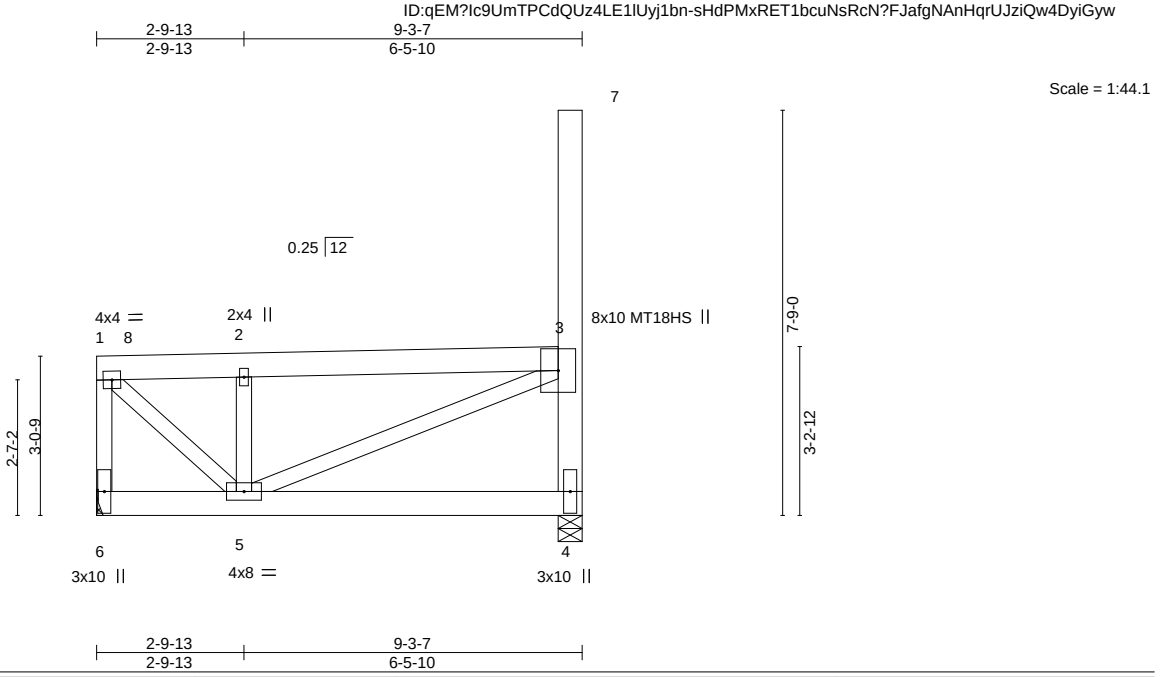


LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.02	4-5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.04	4-5	>999	240	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 80 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
4-7: 2x6 SP 2400F 2.0E

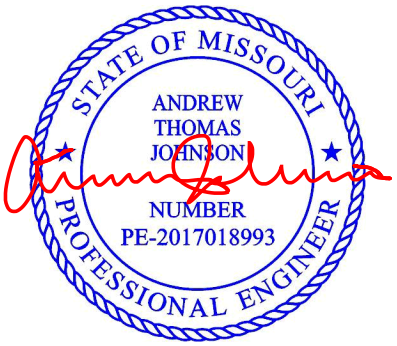
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-0-4 oc bracing.

REACTIONS. (size) 6=Mechanical, 4=0-5-8
Max Horz 6=431(LC 13)
Max Uplift 6=-225(LC 12), 4=-166(LC 13)
Max Grav 6=643(LC 22), 4=794(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-624/671, 1-2=-635/628, 2-3=-643/644, 3-4=-718/942
BOT CHORD 5-6=-953/575, 4-5=-283/297
WEBS 1-5=-931/897, 2-5=-667/684, 3-5=-1143/620

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=225, 4=166.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-80, 4-6=-27



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Chesterfield, MO 63017

LOAD CASE(S) Standard

Trapezoidal Loads (plf)
Vert: 8=-80-to-3=-176

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-67, 4-6=-27
Trapezoidal Loads (plf)
Vert: 8=-67-to-3=-139

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-74, 4-6=-27
Trapezoidal Loads (plf)
Vert: 8=-74-to-3=-146

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-39, 4-6=-27
Trapezoidal Loads (plf)
Vert: 8=-39-to-3=-111

22) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-90, 4-6=-27
Trapezoidal Loads (plf)
Vert: 8=-90-to-3=-186

23) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-43, 4-6=-27
Trapezoidal Loads (plf)
Vert: 8=-43-to-3=-139

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-50, 4-6=-27
Horz: 1-6=24, 1-3=-17, 3-4=6, 3-7=50
Trapezoidal Loads (plf)
Vert: 8=-50-to-3=-122

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-60, 4-6=-27
Horz: 1-6=-6, 1-3=-6, 3-4=-24, 3-7=-50
Trapezoidal Loads (plf)
Vert: 8=-60-to-3=-132

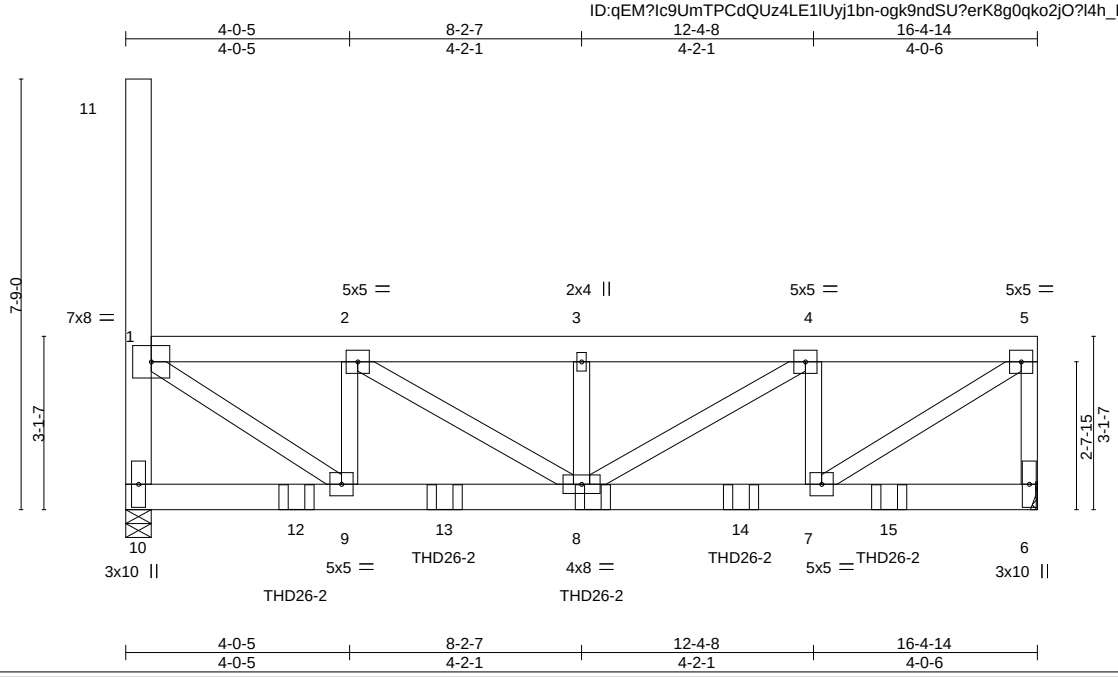
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-50, 4-6=-27
Horz: 1-6=19, 1-3=-17, 3-4=4, 3-7=34
Trapezoidal Loads (plf)
Vert: 8=-50-to-3=-122

28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-8=-60, 4-6=-27
Horz: 1-6=-4, 1-3=-6, 3-4=-19, 3-7=34
Trapezoidal Loads (plf)
Vert: 8=-60-to-3=-132

33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-80, 4-6=-27
Trapezoidal Loads (plf)
Vert: 8=-80-to-3=-176

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T4	FLAT GIRDER	1	2	I53978424
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:27:33 2022 Page 1
ID:qEM?Ic9UmTPCdQUz4LE1lUyj1bn-ogk9ndSU?erK8g0qko2jO?l4h_RTIsMcQ0v185yiGyu



LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.07	8-9	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.07	8	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.40	Horz(CT)	-0.01	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 263 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
10-11: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-6-11 oc bracing.

REACTIONS. (size) 10=0-5-8, 6=Mechanical
Max Horz 10=434(LC 15)
Max Uplift 10=-1434(LC 12), 6=-1473(LC 13)
Max Grav 10=2441(LC 55), 6=2477(LC 54)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-2343/2041, 1-2=-3304/2977, 2-3=-4234/3611, 3-4=-4234/3611, 4-5=-3079/2560, 5-6=-2325/1932
BOT CHORD 9-10=-792/1162, 8-9=-3052/3321, 7-8=-2635/3095
WEBS 1-9=-2808/3451, 2-9=-1242/862, 2-8=-1544/1470, 3-8=-726/422, 4-8=-1247/1370, 4-7=-1308/1051, 5-7=-3149/3742

NOTES-
1) 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: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=1434, 6=1473.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33, 54, 55, 56, 57 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

14) Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent spaced at 2-8-0 oc max. starting at 3-0-14 from the left end to 13-8-14 to connect truss(es) to front face of bottom chord.
15) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-176, 6-10=-27
   Concentrated Loads (lb)
   Vert: 8=-176(F) 12=-176(F) 13=-176(F) 14=-176(F) 15=-176(F)
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-139, 6-10=-27
   Concentrated Loads (lb)
   Vert: 8=-148(F) 12=-148(F) 13=-148(F) 14=-148(F) 15=-148(F)
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-5=-99, 6-10=-27
   Concentrated Loads (lb)
   Vert: 8=-148(F) 12=-148(F) 13=-148(F) 14=-148(F) 15=-148(F)
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-5=-99, 6-10=-27
   Concentrated Loads (lb)
   Vert: 8=-148(F) 12=-148(F) 13=-148(F) 14=-148(F) 15=-148(F)
22) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-5=-123, 6-10=-27
   Concentrated Loads (lb)
   Vert: 8=-176(F) 12=-176(F) 13=-176(F) 14=-176(F) 15=-176(F)
23) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-5=-123, 6-10=-27
   Concentrated Loads (lb)
   Vert: 8=-176(F) 12=-176(F) 13=-176(F) 14=-176(F) 15=-176(F)
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-5=-122, 6-10=-27
   Horz: 1-10=24, 1-11=50, 5-6=6
   Concentrated Loads (lb)
   Vert: 8=338(F) 12=338(F) 13=338(F) 14=338(F) 15=338(F)
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-5=-122, 6-10=-27
   Horz: 1-10=-6, 1-11=-50, 5-6=-24
   Concentrated Loads (lb)
   Vert: 8=338(F) 12=338(F) 13=338(F) 14=338(F) 15=338(F)
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-5=-122, 6-10=-27
   Horz: 1-10=19, 1-11=-34, 5-6=4
   Concentrated Loads (lb)
   Vert: 8=338(F) 12=338(F) 13=338(F) 14=338(F) 15=338(F)
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-5=-122, 6-10=-27
   Horz: 1-10=-4, 1-11=-34, 5-6=-19
   Concentrated Loads (lb)
   Vert: 8=338(F) 12=338(F) 13=338(F) 14=338(F) 15=338(F)
33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-176, 6-10=-27
   Concentrated Loads (lb)
   Vert: 8=-176(F) 12=-176(F) 13=-176(F) 14=-176(F) 15=-176(F)
54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-5=-122, 6-10=-27
   Horz: 1-10=24, 1-11=50, 5-6=6
   Concentrated Loads (lb)
   Vert: 8=-473(F) 12=-473(F) 13=-473(F) 14=-473(F) 15=-473(F)
55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-5=-122, 6-10=-27
   Horz: 1-10=-6, 1-11=-50, 5-6=-24
   Concentrated Loads (lb)
   Vert: 8=-473(F) 12=-473(F) 13=-473(F) 14=-473(F) 15=-473(F)

Continued on page 3

LOAD CASE(S) Standard

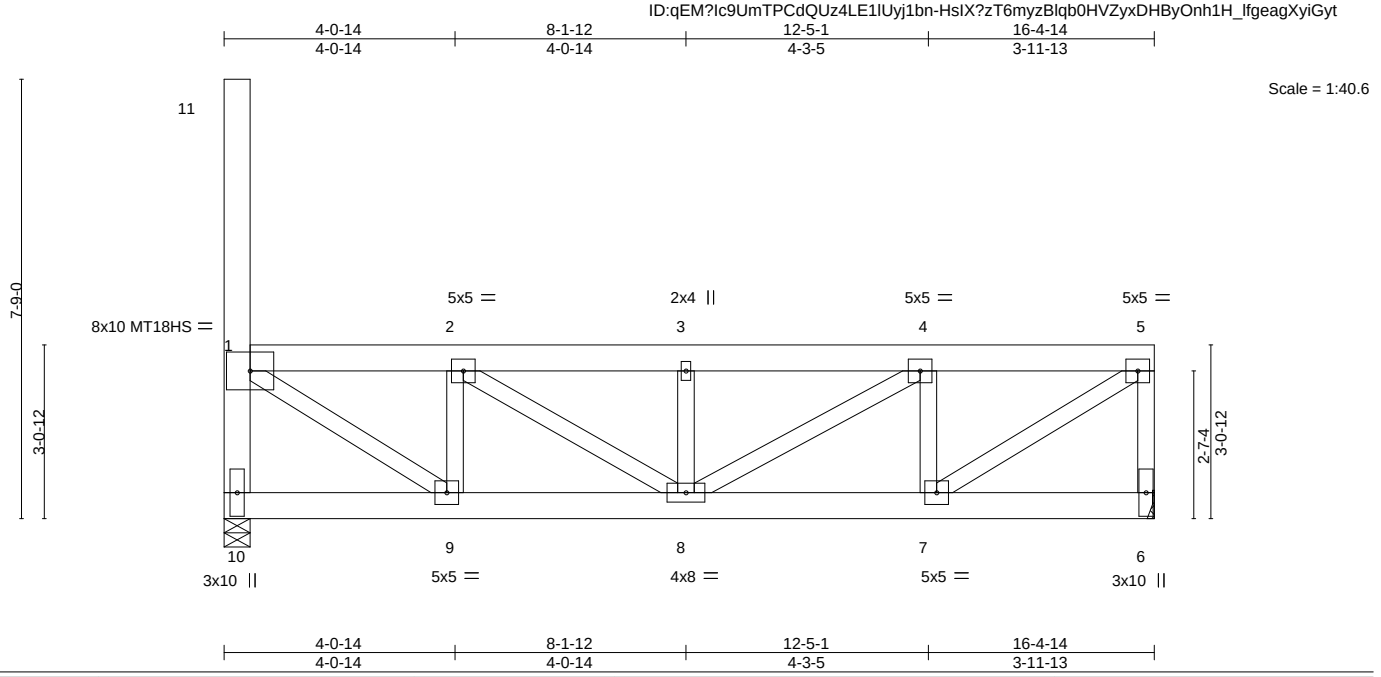
56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-122, 6-10=-27
Horz: 1-10=19, 1-11=-34, 5-6=4
Concentrated Loads (lb)
Vert: 8=-473(F) 12=-473(F) 13=-473(F) 14=-473(F) 15=-473(F)

57) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-122, 6-10=-27
Horz: 1-10=-4, 1-11=-34, 5-6=-19
Concentrated Loads (lb)
Vert: 8=-473(F) 12=-473(F) 13=-473(F) 14=-473(F) 15=-473(F)

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T5	Roof Special	1	1	I53978425
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:27:34 2022 Page 1
ID:qEM?Ic9UmTPCdQUz4LE1lUyj1bn-HsIX?zT6myzBlqb0HVZyxDHByOnh1H_lfgeagXyiGyt



LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.08	8	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.10	8	>999	240	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 131 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
10-11: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-9-0 oc bracing.

REACTIONS. (size) 10=0-5-8, 6=Mechanical
Max Horz 10=-436(LC 14)
Max Uplift 10=-160(LC 12), 6=-160(LC 13)
Max Grav 10=1625(LC 1), 6=1625(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1572/825, 1-2=-1882/1294, 2-3=-2552/1281, 3-4=-2552/1281, 4-5=-1906/837, 5-6=-1570/727
BOT CHORD 9-10=-795/1176, 8-9=-1368/1882, 7-8=-911/1906
WEBS 1-9=-816/2162, 2-9=-1100/515, 2-8=-766/795, 3-8=-727/411, 4-8=-520/757, 4-7=-1182/670, 5-7=-1056/2304

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=160, 6=160.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-5=-176, 6-10=-27

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-139, 6-10=-27

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-5=-99, 6-10=-27

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-5=-99, 6-10=-27

22) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-5=-123, 6-10=-27

23) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-5=-123, 6-10=-27

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-122, 6-10=-27
Horz: 1-10=24, 1-11=50, 5-6=6

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-122, 6-10=-27
Horz: 1-10=-6, 1-11=-50, 5-6=-24

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-122, 6-10=-27
Horz: 1-10=19, 1-11=-34, 5-6=4

28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-122, 6-10=-27
Horz: 1-10=-4, 1-11=-34, 5-6=-19

33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-176, 6-10=-27

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T6	Roof Special	1	1	I53978426
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:27:35 2022 Page 1
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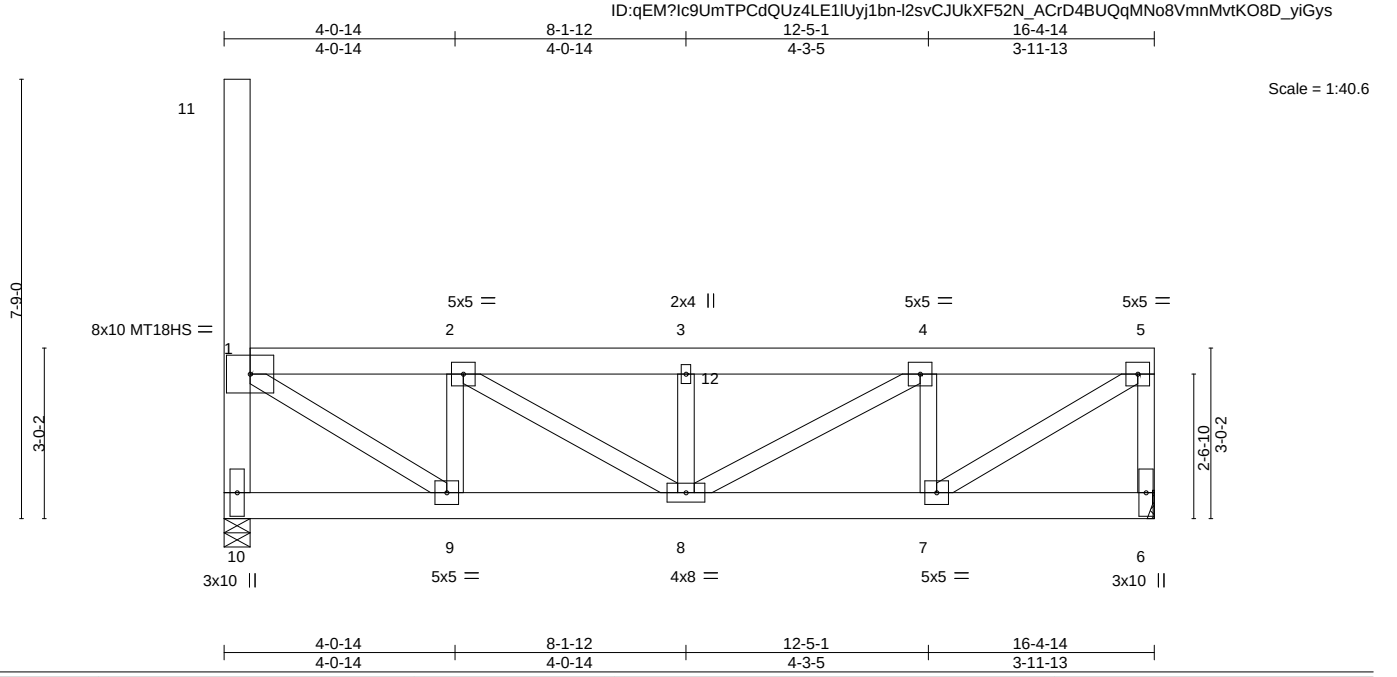

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	0.05	8	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.06	8	>999	240	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.37	Horz(CT)	-0.01	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 130 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
10-11: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-8-3 oc bracing.

REACTIONS. (size) 10=0-5-8, 6=Mechanical
Max Horz 10=-437(LC 12)
Max Uplift 10=-160(LC 12), 6=-160(LC 13)
Max Grav 10=1186(LC 1), 6=925(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1135/826, 1-2=-1351/1323, 2-3=-1595/1309, 3-4=-1595/1309, 4-5=-1127/856, 5-6=-877/727
BOT CHORD 9-10=-810/1199, 8-9=-1395/1366, 7-8=-928/1127
WEBS 1-9=-825/1456, 2-9=-696/512, 2-8=-779/526, 3-8=-364/412, 4-8=-528/554, 4-7=-632/670, 5-7=-1071/1353

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=160, 6=160.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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MiTek
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Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 5-12=-80, 6-10=-27
Trapezoidal Loads (plf)
Vert: 1=-176-to-12=-80

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-12=-67, 6-10=-27
Trapezoidal Loads (plf)
Vert: 1=-139-to-12=-67

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 5-12=-27, 6-10=-27
Trapezoidal Loads (plf)
Vert: 1=-99-to-12=-27

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 5-12=-27, 6-10=-27
Trapezoidal Loads (plf)
Vert: 1=-99-to-12=-27

22) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 5-12=-27, 6-10=-27
Trapezoidal Loads (plf)
Vert: 1=-123-to-12=-27

23) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 5-12=-27, 6-10=-27
Trapezoidal Loads (plf)
Vert: 1=-123-to-12=-27

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-12=-50, 6-10=-27
Horz: 1-10=24, 1-11=50, 5-6=6
Trapezoidal Loads (plf)
Vert: 1=-122-to-12=-50

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-12=-50, 6-10=-27
Horz: 1-10=-6, 1-11=-50, 5-6=-24
Trapezoidal Loads (plf)
Vert: 1=-122-to-12=-50

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-12=-50, 6-10=-27
Horz: 1-10=19, 1-11=-34, 5-6=4
Trapezoidal Loads (plf)
Vert: 1=-122-to-12=-50

28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 5-12=-50, 6-10=-27
Horz: 1-10=-4, 1-11=-34, 5-6=-19
Trapezoidal Loads (plf)
Vert: 1=-122-to-12=-50

33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-12=-80, 6-10=-27
Trapezoidal Loads (plf)
Vert: 1=-176-to-12=-80

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T7	Roof Special	1	1	I53978427
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:27:36 2022 Page 1
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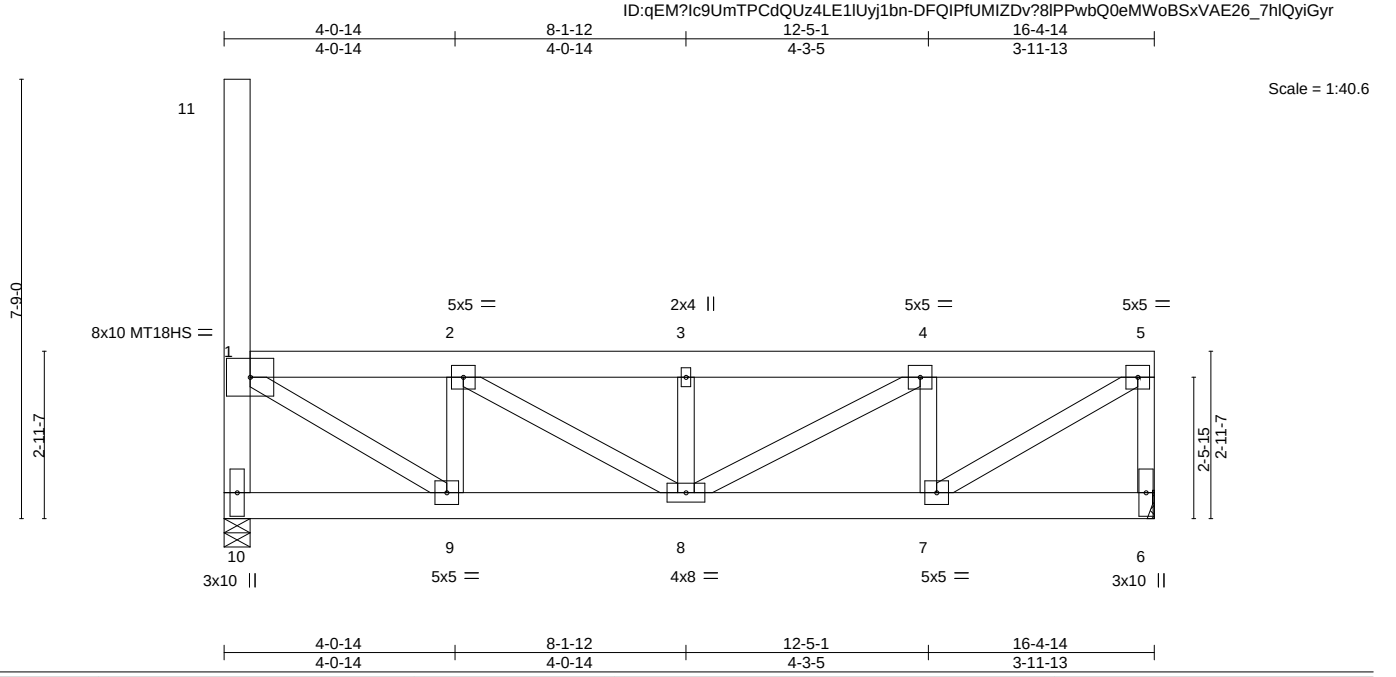

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.08	8	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.11	8	>999	240	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.02	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 130 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
10-11: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-7-5 oc bracing.

REACTIONS. (size) 10=0-5-8, 6=Mechanical
Max Horz 10=439(LC 13)
Max Uplift 10=-160(LC 12), 6=-160(LC 13)
Max Grav 10=1625(LC 1), 6=1625(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1571/826, 1-2=-1963/1353, 2-3=-2662/1339, 3-4=-2662/1339, 4-5=-1988/876, 5-6=-1569/727
BOT CHORD 9-10=-825/1223, 8-9=-1424/1963, 7-8=-947/1988
WEBS 1-9=-835/2220, 2-9=-1096/510, 2-8=-792/821, 3-8=-727/412, 4-8=-536/781, 4-7=-1181/670, 5-7=-1087/2371

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=160, 6=160.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

September 2,2022

Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-5=-176, 6-10=-27

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-139, 6-10=-27

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-5=-99, 6-10=-27

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-5=-99, 6-10=-27

22) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-5=-123, 6-10=-27

23) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-5=-123, 6-10=-27

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-122, 6-10=-27
Horz: 1-10=24, 1-11=50, 5-6=6

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-122, 6-10=-27
Horz: 1-10=-6, 1-11=-50, 5-6=-24

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-122, 6-10=-27
Horz: 1-10=19, 1-11=-34, 5-6=4

28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-122, 6-10=-27
Horz: 1-10=-4, 1-11=-34, 5-6=-19

33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-176, 6-10=-27

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T8	Roof Special	1	1	I53978428
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:27:37 2022 Page 1
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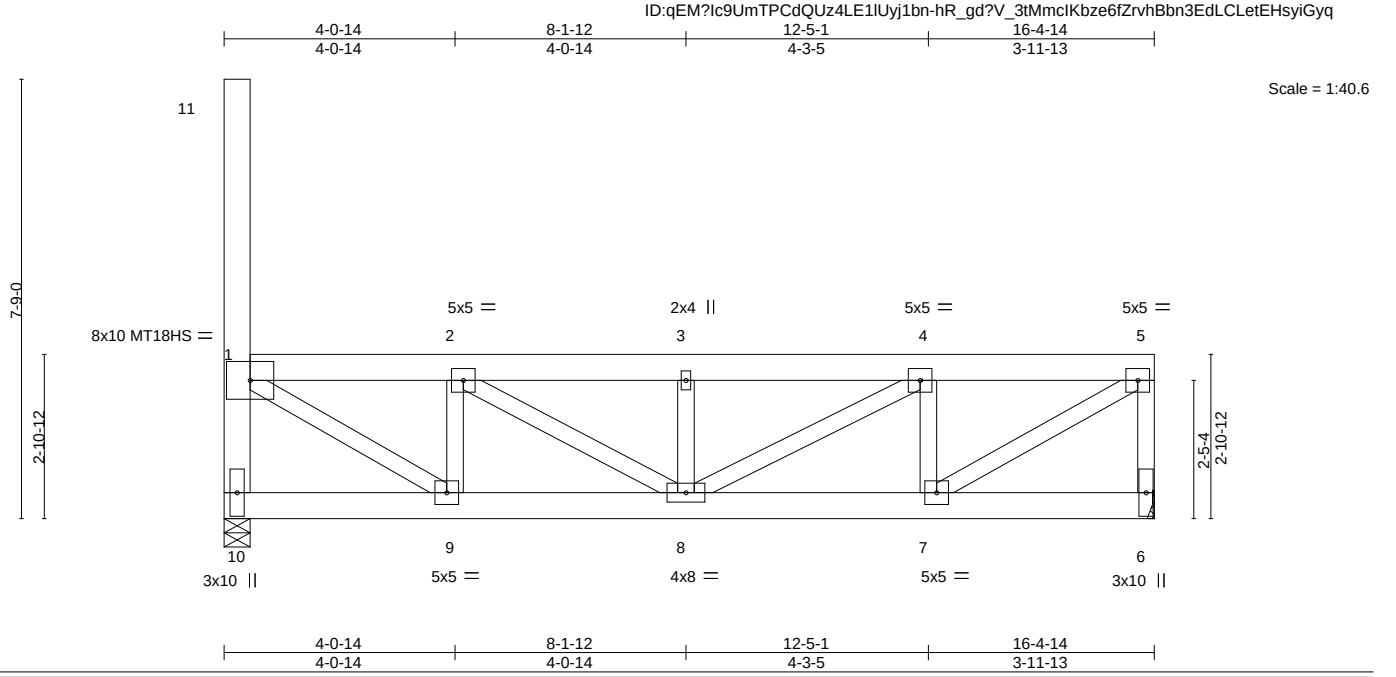

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.08	8	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.11	8	>999	240	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.02	6	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 129 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
10-11: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-6-8 oc bracing.

REACTIONS. (size) 10=0-5-8, 6=Mechanical
Max Horz 10=-440(LC 12)
Max Uplift 10=-161(LC 12), 6=-161(LC 13)
Max Grav 10=1625(LC 1), 6=1625(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1570/827, 1-2=-2005/1385, 2-3=-2721/1371, 3-4=-2721/1371, 4-5=-2031/897, 5-6=-1568/726
BOT CHORD 9-10=-842/1249, 8-9=-1454/2005, 7-8=-966/2031
WEBS 1-9=-845/2251, 2-9=-1094/508, 2-8=-806/835, 3-8=-727/413, 4-8=-545/794, 4-7=-1180/670, 5-7=-1104/2407

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Plates checked for a plus or minus 3 degree rotation about its center.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=161, 6=161.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

September 2,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-5=-176, 6-10=-27

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-139, 6-10=-27

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-5=-99, 6-10=-27

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-5=-99, 6-10=-27

22) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-5=-123, 6-10=-27

23) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-5=-123, 6-10=-27

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-122, 6-10=-27
Horz: 1-10=24, 1-11=50, 5-6=6

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-122, 6-10=-27
Horz: 1-10=-6, 1-11=-50, 5-6=-24

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-122, 6-10=-27
Horz: 1-10=19, 1-11=-34, 5-6=4

28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-122, 6-10=-27
Horz: 1-10=-4, 1-11=-34, 5-6=-19

33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-176, 6-10=-27

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T9	FLAT	1	2	I53978429

Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:27:38 2022 Page 1
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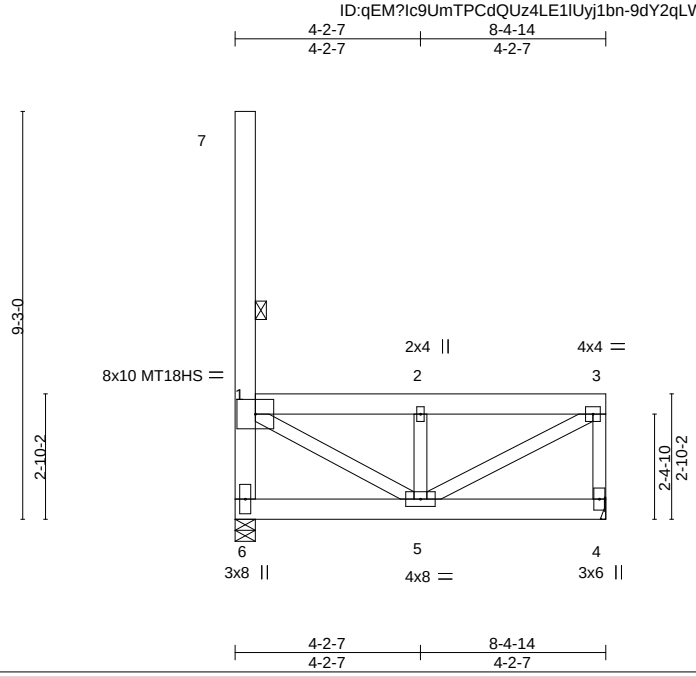

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	0.01	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.01	5	>999	240	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 154 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except*
	6-7: 2x6 SP 2400F 2.0E

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except:
	6-0-0 oc bracing: 1-6
	10-0-0 oc bracing: 1-7
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 1-7

REACTIONS. (size) 6=0-5-8, 4=Mechanical
Max Horz 6=-545(LC 12)
Max Uplift 6=-356(LC 12), 4=-356(LC 13)
Max Grav 6=750(LC 26), 4=654(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-706/1248, 1-2=-1056/1142, 2-3=-1056/1142, 3-4=-599/850
BOT CHORD 5-6=-1302/2226
WEBS 1-5=-1218/696, 2-5=-549/758, 3-5=-1370/1299

NOTES-

1) 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: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) Plates checked for a plus or minus 3 degree rotation about its center.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) Refer to girder(s) for truss to truss connections.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=356, 4=356.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
14) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

September 2,2022

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LOAD CASE(S) Standard

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-3=-80
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-3=-67
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-3=-27
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-3=-27
22) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-3=-27
23) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-3=-27
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-27
   Horz: 1-6=24, 1-7=51, 3-4=6
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-3=-50
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-27
   Horz: 1-6=-6, 1-7=-51, 3-4=-24
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-3=-50
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-27
   Horz: 1-6=19, 1-7=-34, 3-4=4
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-3=-50
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-27
   Horz: 1-6=-4, 1-7=-34, 3-4=-19
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-3=-50
33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-3=-80

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T10	ROOF SPECIAL	1	2	I53978430

Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:26:48 2022 Page 1
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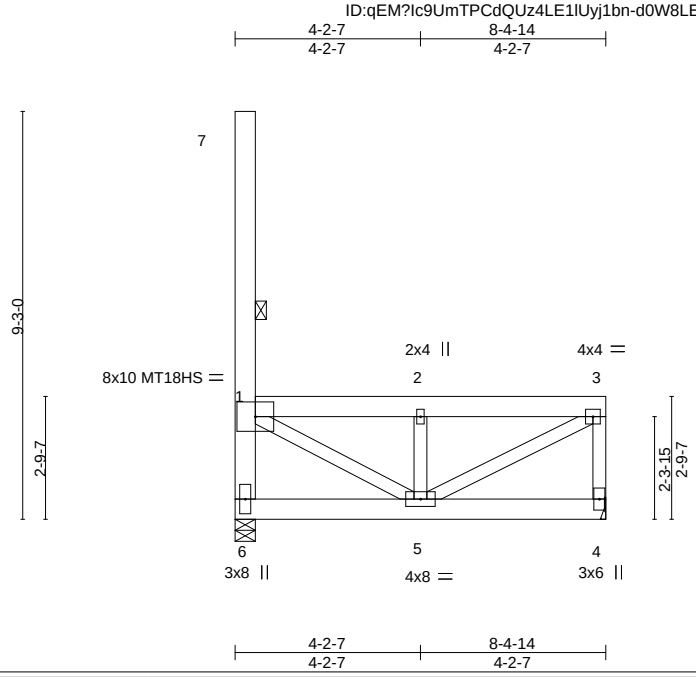

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	0.01	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.01	5	>999	240	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 153 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except*
	6-7: 2x6 SP 2400F 2.0E

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except:
	6-0-0 oc bracing: 1-6
	10-0-0 oc bracing: 1-7
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 1-7

REACTIONS. (size) 6=0-5-8, 4=Mechanical
Max Horz 6=-547(LC 14)
Max Uplift 6=-357(LC 12), 4=-357(LC 13)
Max Grav 6=751(LC 26), 4=654(LC 25)

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

TOP CHORD	1-6=-706/1250, 1-2=-1087/1170, 2-3=-1087/1170, 3-4=-599/850
BOT CHORD	5-6=-1332/2280
WEBS	1-5=-1240/707, 2-5=-547/757, 3-5=-1393/1325

NOTES-

1) 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: 2x6 - 2 rows staggered at 0-9-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) Plates checked for a plus or minus 3 degree rotation about its center.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) Refer to girder(s) for truss to truss connections.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=357, 4=357.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
14) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

September 2,2022

Continued on page 2

LOAD CASE(S) Standard

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-3=-80
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-3=-67
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-3=-27
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-3=-27
22) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-3=-27
23) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-3=-27
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-27
   Horz: 1-6=24, 1-7=51, 3-4=6
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-3=-50
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-27
   Horz: 1-6=-6, 1-7=-51, 3-4=-24
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-3=-50
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-27
   Horz: 1-6=19, 1-7=-34, 3-4=4
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-3=-50
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-27
   Horz: 1-6=-4, 1-7=-34, 3-4=-19
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-3=-50
33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-3=-80

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T11	ROOF SPECIAL	1	2	I53978431

Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:26:49 2022 Page 1
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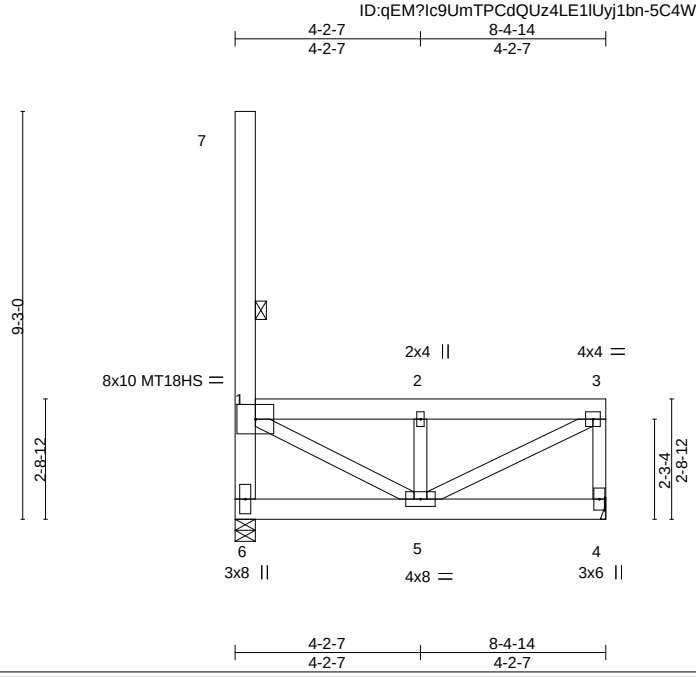

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.01	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.01	5	>999	240	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 153 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except*
	6-7: 2x6 SP 2400F 2.0E

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except:
	6-0-0 oc bracing: 1-6
	10-0-0 oc bracing: 1-7
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 1-7

REACTIONS. (size) 6=0-5-8, 4=Mechanical
Max Horz 6=-548(LC 12)
Max Uplift 6=-357(LC 12), 4=-357(LC 13)
Max Grav 6=751(LC 26), 4=655(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-706/1251, 1-2=-1120/1200, 2-3=-1120/1200, 3-4=-599/849
BOT CHORD 5-6=-1363/2337
WEBS 1-5=-1264/719, 2-5=-546/757, 3-5=-1418/1352

NOTES-

1) 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: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) Plates checked for a plus or minus 3 degree rotation about its center.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) Refer to girder(s) for truss to truss connections.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=357, 4=357.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
14) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

September 2,2022

Continued on page 2

LOAD CASE(S) Standard

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-3=-80
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-3=-67
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-3=-27
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-3=-27
22) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-3=-27
23) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-3=-27
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-27
   Horz: 1-6=24, 1-7=51, 3-4=6
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-3=-50
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-27
   Horz: 1-6=-6, 1-7=-51, 3-4=-24
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-3=-50
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-27
   Horz: 1-6=19, 1-7=-34, 3-4=4
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-3=-50
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-27
   Horz: 1-6=-4, 1-7=-34, 3-4=-19
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-3=-50
33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-3=-80

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T12	ROOF SPECIAL	1	2	I53978432

Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:26:51 2022 Page 1
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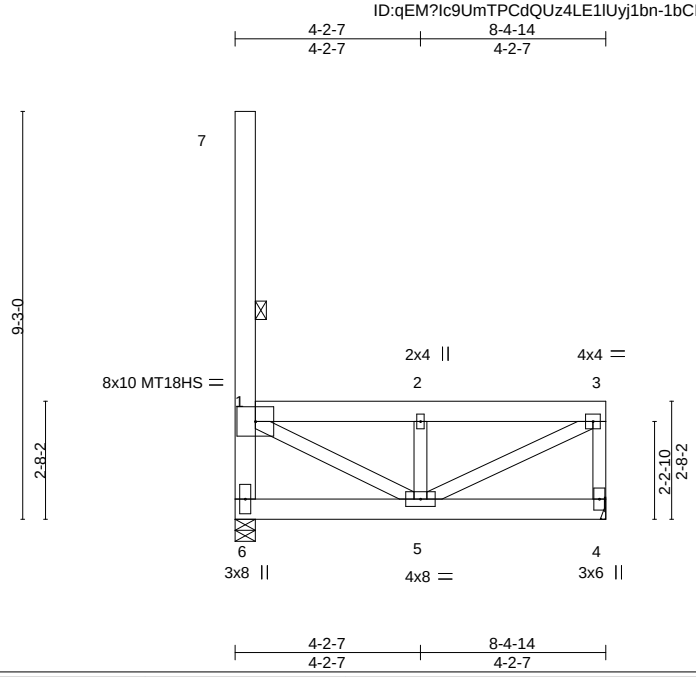

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.01	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.01	5	>999	240	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 152 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except*
	6-7: 2x6 SP 2400F 2.0E

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except:
	6-0-0 oc bracing: 1-6
	10-0-0 oc bracing: 1-7
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 1-7

REACTIONS. (size) 6=0-5-8, 4=Mechanical
Max Horz 6=-550(LC 12)
Max Uplift 6=-358(LC 12), 4=-358(LC 13)
Max Grav 6=751(LC 26), 4=655(LC 25)

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

TOP CHORD	1-6=-706/1253, 1-2=-1150/1228, 2-3=-1150/1228, 3-4=-599/849
BOT CHORD	5-6=-1393/2391
WEBS	1-5=-1287/730, 2-5=-544/756, 3-5=-1441/1378

NOTES-

1) 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: 2x6 - 2 rows staggered at 0-9-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) Plates checked for a plus or minus 3 degree rotation about its center.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) Refer to girder(s) for truss to truss connections.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=358, 4=358.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
14) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

September 2,2022

Continued on page 2

LOAD CASE(S) Standard

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-3=-80
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-3=-67
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-3=-27
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-3=-27
22) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-3=-27
23) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-3=-27
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-27
   Horz: 1-6=24, 1-7=51, 3-4=6
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-3=-50
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-27
   Horz: 1-6=-6, 1-7=-51, 3-4=-24
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-3=-50
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-27
   Horz: 1-6=19, 1-7=-34, 3-4=4
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-3=-50
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 4-6=-27
   Horz: 1-6=-4, 1-7=-34, 3-4=-19
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-3=-50
33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 4-6=-27
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-3=-80

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T13	ROOF SPECIAL	1	2	I53978433

Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:26:52 2022 Page 1
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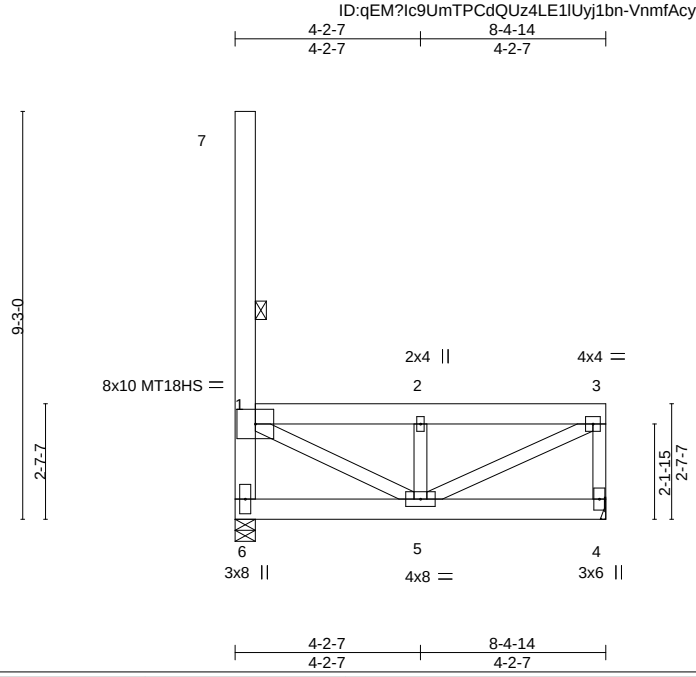

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.01	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.01	5	>999	240	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 152 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except*
	6-7: 2x6 SP 2400F 2.0E

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except:
	6-0-0 oc bracing: 1-6
	10-0-0 oc bracing: 1-7
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 1-7

REACTIONS. (size) 6=0-5-8, 4=Mechanical
Max Horz 6=-551(LC 12)
Max Uplift 6=-358(LC 12), 4=-358(LC 13)
Max Grav 6=848(LC 26), 4=848(LC 25)

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

TOP CHORD	1-6=-799/1255, 1-2=-1185/1260, 2-3=-1185/1260, 3-4=-788/848
BOT CHORD	5-6=-1428/2454
WEBS	1-5=-1315/910, 2-5=-767/755, 3-5=-1468/1407

NOTES-

1) 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: 2x6 - 2 rows staggered at 0-9-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) Plates checked for a plus or minus 3 degree rotation about its center.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) Refer to girder(s) for truss to truss connections.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=358, 4=358.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
14) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

September 2,2022

Continued on page 2

LOAD CASE(S) Standard

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-176, 4-6=-27
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-139, 4-6=-27
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-99, 4-6=-27
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-99, 4-6=-27
22) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-123, 4-6=-27
23) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-123, 4-6=-27
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=24, 1-7=51, 3-4=6
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=-6, 1-7=-51, 3-4=-24
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=19, 1-7=-34, 3-4=4
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=-4, 1-7=-34, 3-4=-19
33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-176, 4-6=-27

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T14	FLAT GIRDER	1	2	I53978434

Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:26:53 2022 Page 1
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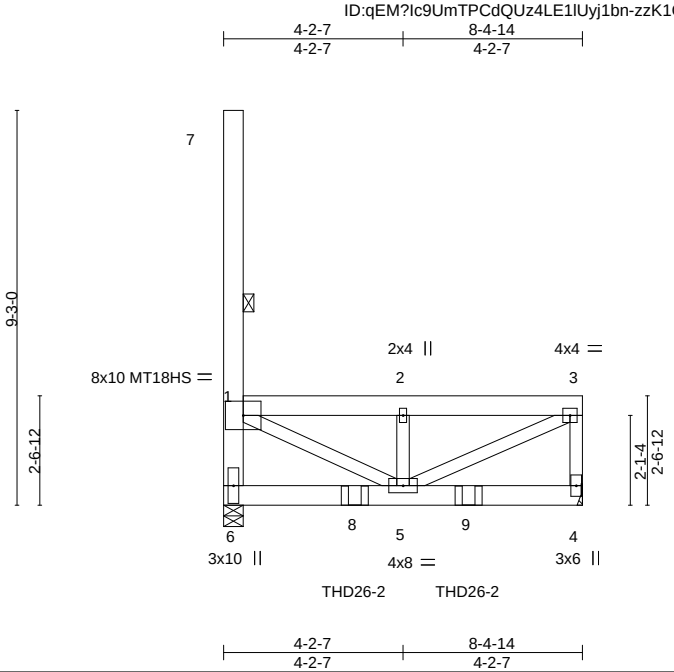

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.01	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.02	4-5	>999	240	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 151 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except*
	6-7: 2x6 SP 2400F 2.0E

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except:
	6-0-0 oc bracing: 1-6
	10-0-0 oc bracing: 1-7
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 1-7

REACTIONS. (size) 6=0-5-8, 4=Mechanical
Max Horz 6=-553(LC 44)
Max Uplift 6=-401(LC 12), 4=-404(LC 13)
Max Grav 6=1050(LC 1), 4=1070(LC 1)

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

TOP CHORD	1-6=-957/1292, 1-2=-1367/1359, 2-3=-1367/1359, 3-4=-952/883
BOT CHORD	5-6=-1468/2524
WEBS	1-5=-1415/1268, 2-5=-737/759, 3-5=-1570/1547

NOTES-

1) 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: 2x6 - 2 rows staggered at 0-9-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) Plates checked for a plus or minus 3 degree rotation about its center.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) Refer to girder(s) for truss to truss connections.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=401, 4=404.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
14) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33, 54, 55, 56, 57 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

15) Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent spaced at 2-8-0 oc max. starting at 3-0-14 from the left end to 5-8-14 to connect truss(es) to back face of bottom chord.
16) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-176, 4-6=-27
   Concentrated Loads (lb)
   Vert: 8=-246(B) 9=-246(B)
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-139, 4-6=-27
   Concentrated Loads (lb)
   Vert: 8=-194(B) 9=-194(B)
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-99, 4-6=-27
   Concentrated Loads (lb)
   Vert: 8=-194(B) 9=-194(B)
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-99, 4-6=-27
   Concentrated Loads (lb)
   Vert: 8=-194(B) 9=-194(B)
22) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-123, 4-6=-27
   Concentrated Loads (lb)
   Vert: 8=-246(B) 9=-246(B)
23) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-123, 4-6=-27
   Concentrated Loads (lb)
   Vert: 8=-246(B) 9=-246(B)
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=24, 1-7=51, 3-4=6
   Concentrated Loads (lb)
   Vert: 8=42(B) 9=42(B)
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=-6, 1-7=-51, 3-4=-24
   Concentrated Loads (lb)
   Vert: 8=42(B) 9=42(B)
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=19, 1-7=-34, 3-4=4
   Concentrated Loads (lb)
   Vert: 8=42(B) 9=42(B)
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=-4, 1-7=-34, 3-4=-19
   Concentrated Loads (lb)
   Vert: 8=42(B) 9=42(B)
33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-176, 4-6=-27
   Concentrated Loads (lb)
   Vert: 8=-246(B) 9=-246(B)
54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=24, 1-7=51, 3-4=6
   Concentrated Loads (lb)
   Vert: 8=-152(B) 9=-152(B)
55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=-6, 1-7=-51, 3-4=-24
   Concentrated Loads (lb)
   Vert: 8=-152(B) 9=-152(B)

Continued on page 3

LOAD CASE(S) Standard

56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-122, 4-6=-27
Horz: 1-6=19, 1-7=-34, 3-4=4
Concentrated Loads (lb)
Vert: 8=-152(B) 9=-152(B)

57) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-122, 4-6=-27
Horz: 1-6=-4, 1-7=-34, 3-4=-19
Concentrated Loads (lb)
Vert: 8=-152(B) 9=-152(B)

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T15	ROOF SPECIAL GIRDER	1	2	I53978435

Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:26:55 2022 Page 1
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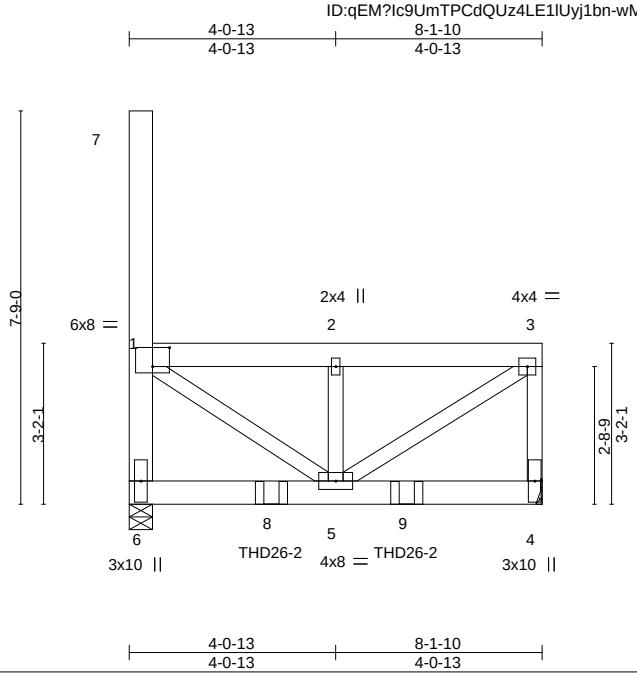

Plate Offsets (X,Y)-- [1:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	0.02	4-5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.02	4-5	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 146 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 6-7: 2x6 SP No.1

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. (size) 6=0-5-8, 4=Mechanical
Max Horz 6=-433(LC 14)
Max Uplift 6=-946(LC 12), 4=-955(LC 13)
Max Grav 6=1389(LC 55), 4=1398(LC 54)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-1234/1560, 1-2=-1456/1545, 2-3=-1456/1545, 3-4=-1217/1281
BOT CHORD 5-6=-853/1384
WEBS 1-5=-1814/1559, 2-5=-743/723, 3-5=-1933/1781

NOTES-

1) 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: 2x6 - 2 rows staggered at 0-9-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=946, 4=955.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33, 54, 55, 56, 57 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
14) Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent spaced at 2-8-0 oc max. starting at 2-9-10 from the left end to 5-5-10 to connect truss(es) to back face of bottom chord.

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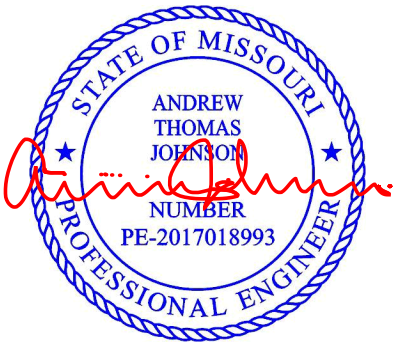

September 2,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

15) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-176, 4-6=-27
   Concentrated Loads (lb)
   Vert: 8=-246(B) 9=-246(B)
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-139, 4-6=-27
   Concentrated Loads (lb)
   Vert: 8=-194(B) 9=-194(B)
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-99, 4-6=-27
   Concentrated Loads (lb)
   Vert: 8=-194(B) 9=-194(B)
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-99, 4-6=-27
   Concentrated Loads (lb)
   Vert: 8=-194(B) 9=-194(B)
22) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-123, 4-6=-27
   Concentrated Loads (lb)
   Vert: 8=-246(B) 9=-246(B)
23) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-123, 4-6=-27
   Concentrated Loads (lb)
   Vert: 8=-246(B) 9=-246(B)
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=24, 1-7=50, 3-4=6
   Concentrated Loads (lb)
   Vert: 8=417(B) 9=417(B)
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=-6, 1-7=-50, 3-4=-24
   Concentrated Loads (lb)
   Vert: 8=417(B) 9=417(B)
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=19, 1-7=-34, 3-4=4
   Concentrated Loads (lb)
   Vert: 8=417(B) 9=417(B)
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=-4, 1-7=-34, 3-4=-19
   Concentrated Loads (lb)
   Vert: 8=417(B) 9=417(B)
33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-176, 4-6=-27
   Concentrated Loads (lb)
   Vert: 8=-246(B) 9=-246(B)
54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=24, 1-7=50, 3-4=6
   Concentrated Loads (lb)
   Vert: 8=-643(B) 9=-643(B)
55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=-6, 1-7=-50, 3-4=-24
   Concentrated Loads (lb)
   Vert: 8=-643(B) 9=-643(B)
56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-122, 4-6=-27

Horz: 1-6=19, 1-7=-34, 3-4=4

Concentrated Loads (lb)

Vert: 8=-643(B) 9=-643(B)

57) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-3=-122, 4-6=-27

Horz: 1-6=-4, 1-7=-34, 3-4=-19

Concentrated Loads (lb)

Vert: 8=-643(B) 9=-643(B)

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T16	ROOF SPECIAL	1	2	I53978436
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:26:56 2022 Page 1
ID:qEM?Ic9UmTPCdQUz4LE1lUyj1bn-OY?A0_?GjGBaC_hj3Xt2OCiiZ3sE7B59vlRaLkyiGzT

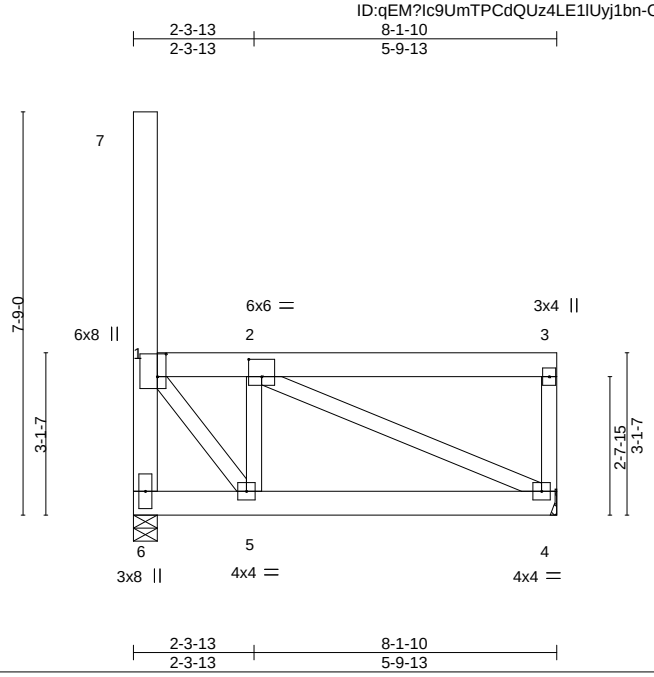

Plate Offsets (X,Y)-- [1:0-5-4,0-2-0], [2:0-3-0,0-4-0]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.01	4-5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	4-5	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 147 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
6-7: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 6=0-5-8, 4=Mechanical
Max Horz 6=-434(LC 12)
Max Uplift 6=-256(LC 12), 4=-256(LC 13)
Max Grav 6=786(LC 1), 4=786(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-768/972, 1-2=-860/957, 3-4=-415/285
BOT CHORD 5-6=-762/1335, 4-5=-1045/1001
WEBS 1-5=-542/1032, 2-5=-696/500, 2-4=-1028/1105

NOTES-
1) 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: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=256, 4=256.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

September 2,2022

LOAD CASE(S) Standard

Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-176, 4-6=-27
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-139, 4-6=-27
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-99, 4-6=-27
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-99, 4-6=-27
22) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-123, 4-6=-27
23) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-123, 4-6=-27
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=24, 1-7=50, 3-4=6
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=-6, 1-7=-50, 3-4=-24
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=19, 1-7=-34, 3-4=4
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=-4, 1-7=-34, 3-4=-19
33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-176, 4-6=-27

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T17	ROOF SPECIAL	1	2	I53978437
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:26:57 2022 Page 1
ID:qEM?Ic9UmTPCdQUz4LE1lUyj1bn-skZYEJ0vUaJRp8GvdEOHxQFt_TCSseJJ8PB7uByiGzS

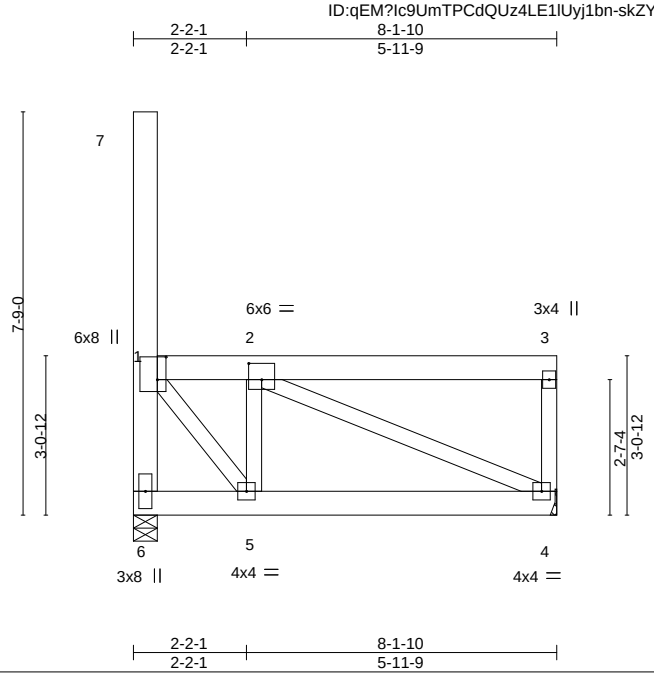

Plate Offsets (X,Y)-- [1:0-5-4,0-2-0], [2:0-3-0,0-3-12]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.01	4-5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	4-5	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 146 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
6-7: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 6=0-5-8, 4=Mechanical
Max Horz 6=-436(LC 12)
Max Uplift 6=-256(LC 12), 4=-256(LC 13)
Max Grav 6=786(LC 1), 4=786(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-767/975, 1-2=-884/979, 3-4=-416/285
BOT CHORD 5-6=-773/1360, 4-5=-1065/1022
WEBS 2-4=-1049/1124, 2-5=-696/501, 1-5=-540/1040

NOTES-
1) 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: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=256, 4=256.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

September 2,2022

LOAD CASE(S) Standard

Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-176, 4-6=-27
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-139, 4-6=-27
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-99, 4-6=-27
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-99, 4-6=-27
22) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-123, 4-6=-27
23) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-123, 4-6=-27
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=24, 1-7=50, 3-4=6
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=-6, 1-7=-50, 3-4=-24
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=19, 1-7=-34, 3-4=4
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=-4, 1-7=-34, 3-4=-19
33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-176, 4-6=-27

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T18	ROOF SPECIAL	1	2	I53978438
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:26:58 2022 Page 1
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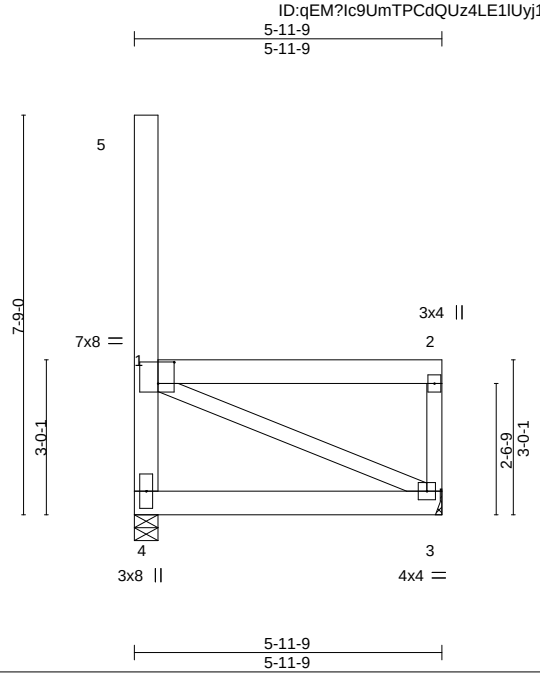

Plate Offsets (X,Y)-- [1:0-3-12,0-5-0]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.01	3-4	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.02	3-4	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 111 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-438(LC 12)
Max Uplift 4=-341(LC 12), 3=-341(LC 13)
Max Grav 4=634(LC 26), 3=609(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-559/1185, 2-3=-349/351
BOT CHORD 3-4=-1027/1501
WEBS 1-3=-1573/1081

NOTES-
1) 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: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=341, 3=341.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

September 2,2022

LOAD CASE(S) Standard

Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-2=-140
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-2=-112
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-72
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-72
22) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-2=-87
23) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-2=-87
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=24, 1-5=50, 2-3=6
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=-6, 1-5=-50, 2-3=-24
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=19, 1-5=-34, 2-3=4
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=-4, 1-5=-34, 2-3=-19
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-2=-140

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T19	ROOF SPECIAL	1	2	I53978439
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:26:59 2022 Page 1
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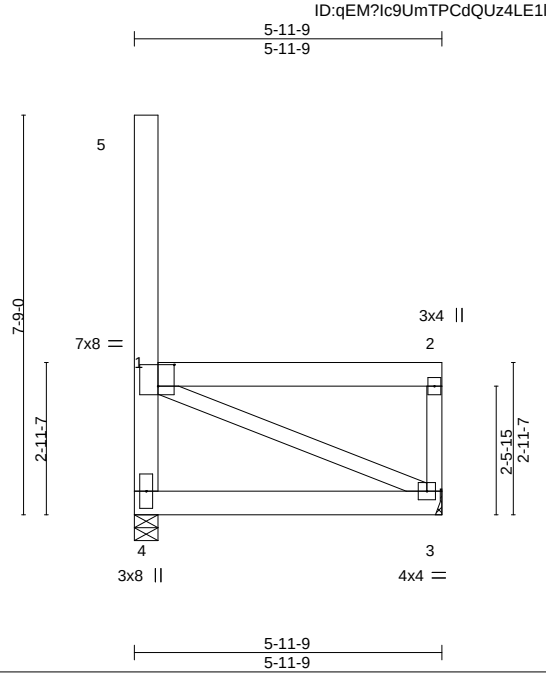

Plate Offsets (X,Y)-- [1:0-3-12,0-5-0]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.01	3-4	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.02	3-4	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 110 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-439(LC 12)
Max Uplift 4=-342(LC 12), 3=-342(LC 13)
Max Grav 4=634(LC 26), 3=609(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-560/1187, 2-3=-349/351
BOT CHORD 3-4=-1046/1530
WEBS 1-3=-1601/1099

NOTES-
1) 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: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=342, 3=342.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

September 2,2022

LOAD CASE(S) Standard

Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-2=-140
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-2=-112
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-72
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-72
22) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-2=-87
23) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-2=-87
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=24, 1-5=50, 2-3=6
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=-6, 1-5=-50, 2-3=-24
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=19, 1-5=-34, 2-3=4
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=-4, 1-5=-34, 2-3=-19
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-2=-140

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T20	ROOF SPECIAL	1	2	I53978440
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:27:11 2022 Page 1
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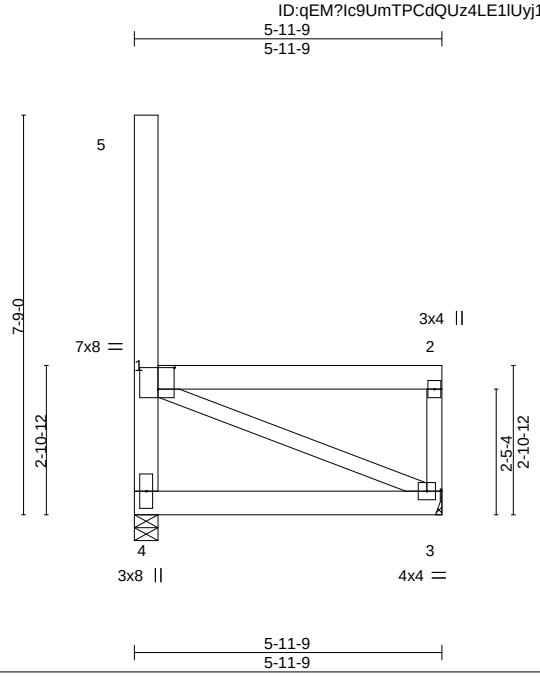

Plate Offsets (X,Y)-- [1:0-3-12,0-5-0]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.01	3-4	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.02	3-4	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 110 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=440(LC 15)
Max Uplift 4=-342(LC 12), 3=-342(LC 13)
Max Grav 4=635(LC 26), 3=610(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-560/1189, 2-3=-349/352
BOT CHORD 3-4=-1067/1563
WEBS 1-3=-1634/1119

NOTES-
1) 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: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=342, 3=342.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

September 2,2022

LOAD CASE(S) Standard

Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-2=-140
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-2=-112
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-72
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-72
22) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-2=-87
23) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-2=-87
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=24, 1-5=50, 2-3=6
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=-6, 1-5=-50, 2-3=-24
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=19, 1-5=-34, 2-3=4
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=-4, 1-5=-34, 2-3=-19
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-2=-140

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T21	ROOF SPECIAL	1	2	I53978441
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:27:13 2022 Page 1
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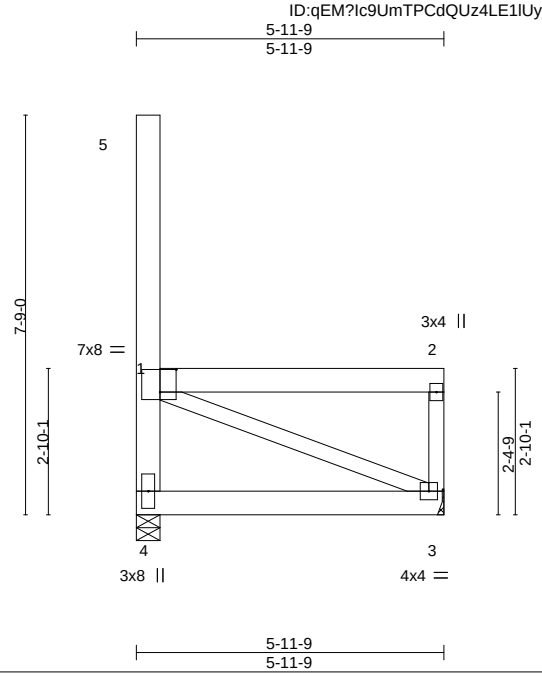

Plate Offsets (X,Y)-- [1:0-3-12,0-5-4]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.01	3-4	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.02	3-4	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 110 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-442(LC 12)
Max Uplift 4=-343(LC 12), 3=-343(LC 13)
Max Grav 4=635(LC 26), 3=610(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-561/1192, 2-3=-348/352
BOT CHORD 3-4=-1090/1599
WEBS 1-3=-1668/1141

NOTES-
1) 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: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=343, 3=343.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

September 2,2022

LOAD CASE(S) Standard

Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-2=-140
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-2=-112
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-72
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-72
22) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-2=-87
23) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-2=-87
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=24, 1-5=50, 2-3=6
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=-6, 1-5=-50, 2-3=-24
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=19, 1-5=-34, 2-3=4
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=-4, 1-5=-34, 2-3=-19
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-2=-140

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T22	ROOF SPECIAL	1	2	I53978442
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:27:14 2022 Page 1
ID:qEM?Ic9UmTPCdQUz4LE1lUyj1bn-s05zo7DZUoS1Mm3A6JCG7?SlQK?6LJKp2ZoW_iyiGzB

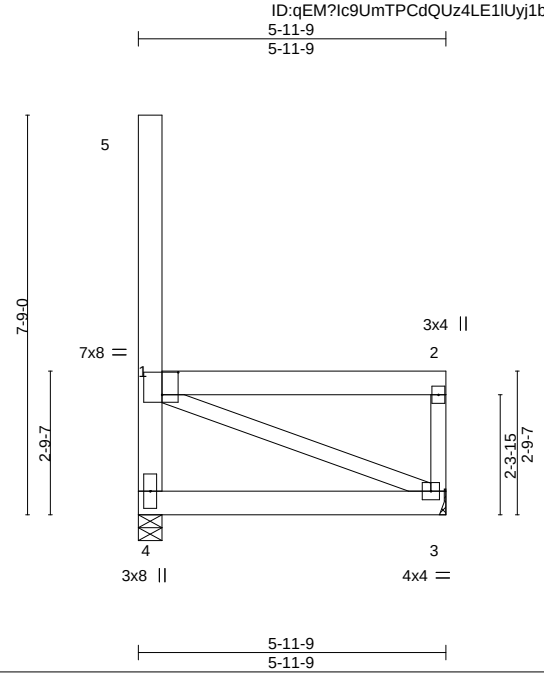

Plate Offsets (X,Y)-- [1:0-3-12,0-5-4]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.01	3-4	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.02	3-4	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 110 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-443(LC 14)
Max Uplift 4=-344(LC 12), 3=-344(LC 13)
Max Grav 4=636(LC 26), 3=611(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-561/1194, 2-3=-348/353
BOT CHORD 3-4=-1112/1632
WEBS 1-3=-1700/1161

NOTES-
1) 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: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=344, 3=344.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

September 2,2022

LOAD CASE(S) Standard

Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-2=-140
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-2=-112
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-72
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-72
22) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-2=-87
23) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-2=-87
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=24, 1-5=50, 2-3=6
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=-6, 1-5=-50, 2-3=-24
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=19, 1-5=-34, 2-3=4
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=-4, 1-5=-34, 2-3=-19
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-2=-140

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T23	ROOF SPECIAL	1	2	I53978443
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:27:15 2022 Page 1
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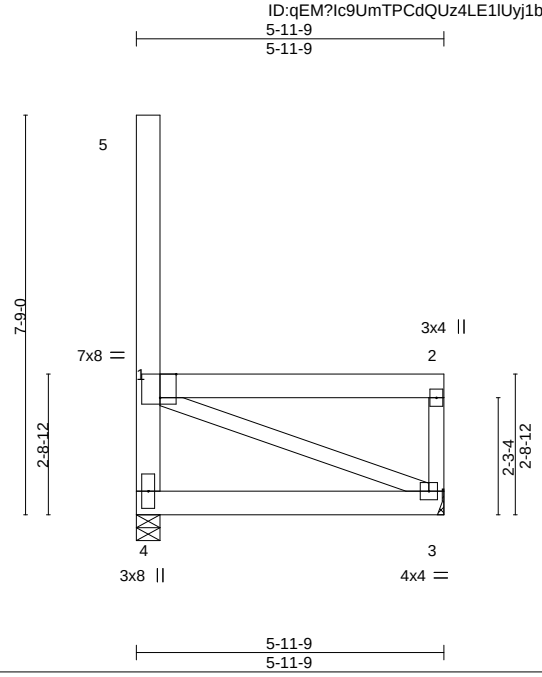

Plate Offsets (X,Y)-- [1:0-3-12,Edge]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.01	3-4	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.02	3-4	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 109 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-445(LC 12)
Max Uplift 4=-344(LC 12), 3=-344(LC 13)
Max Grav 4=636(LC 26), 3=611(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-562/1196, 2-3=-347/353
BOT CHORD 3-4=-1137/1671
WEBS 1-3=-1737/1185

NOTES-
1) 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: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=344, 3=344.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

September 2,2022

LOAD CASE(S) Standard

Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-2=-140
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-2=-112
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-72
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-72
22) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-2=-87
23) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-2=-87
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=24, 1-5=50, 2-3=6
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=-6, 1-5=-50, 2-3=-24
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=19, 1-5=-34, 2-3=4
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=-4, 1-5=-34, 2-3=-19
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-2=-140

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T24	ROOF SPECIAL	1	2	I53978444
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:27:16 2022 Page 1
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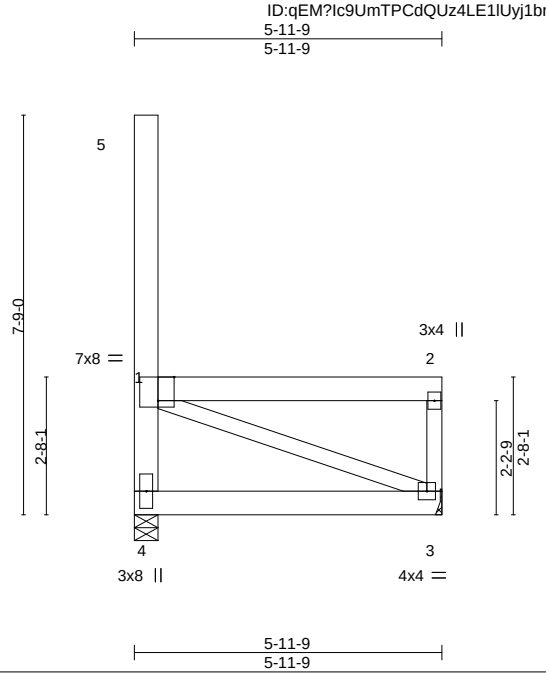

Plate Offsets (X,Y)-- [1:0-3-12,Edge]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.01	3-4	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.02	3-4	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 109 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
4-5: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 3=Mechanical
Max Horz 4=-446(LC 12)
Max Uplift 4=-345(LC 12), 3=-345(LC 13)
Max Grav 4=637(LC 26), 3=612(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-562/1198, 2-3=-347/354
BOT CHORD 3-4=-1163/1712
WEBS 1-3=-1777/1211

NOTES-
1) 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: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=345, 3=345.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

September 2,2022

LOAD CASE(S) Standard

Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-2=-140
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-139-to-2=-112
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-72
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-99-to-2=-72
22) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-2=-87
23) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-123-to-2=-87
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=24, 1-5=50, 2-3=6
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=-6, 1-5=-50, 2-3=-24
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=19, 1-5=-34, 2-3=4
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 3-4=-27
   Horz: 1-4=-4, 1-5=-34, 2-3=-19
   Trapezoidal Loads (plf)
   Vert: 1=-122-to-2=-95
33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 3-4=-27
   Trapezoidal Loads (plf)
   Vert: 1=-176-to-2=-140

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T25	ROOF SPECIAL	1	2	I53978445

Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:27:17 2022 Page 1
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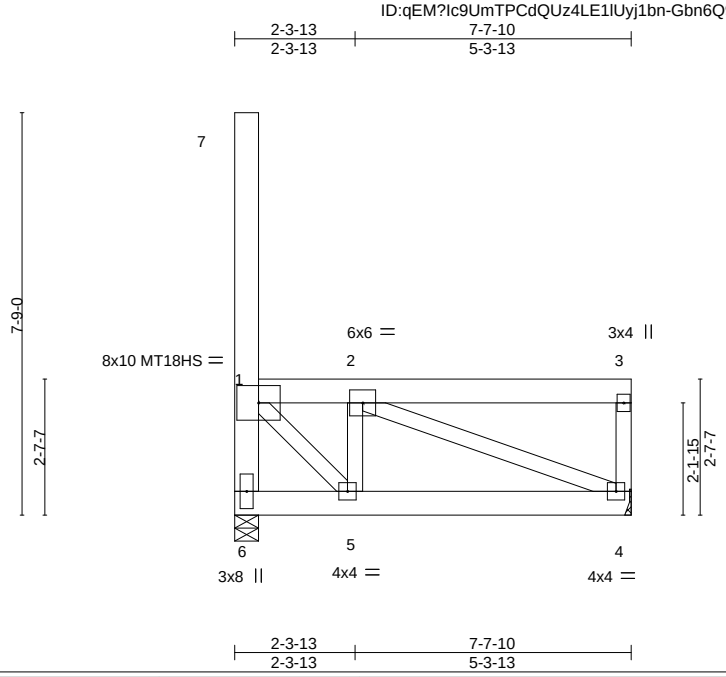

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.01	5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	4-5	>999	240	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 136 lb	FT = 3%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
6-7: 2x6 SP No.1

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. (size) 6=0-5-8, 4=Mechanical
Max Horz 6=-448(LC 12)
Max Uplift 6=-275(LC 12), 4=-275(LC 13)
Max Grav 6=736(LC 1), 4=736(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-723/1031, 1-2=-1133/1128, 3-4=-383/269
BOT CHORD 5-6=-896/1613, 4-5=-1200/1249
WEBS 1-5=-524/965, 2-5=-599/456, 2-4=-1291/1261

NOTES-
1) 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: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) Plates checked for a plus or minus 3 degree rotation about its center.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) Refer to girder(s) for truss to truss connections.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=275, 4=275.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
14) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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LOAD CASE(S) Standard

Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-176, 4-6=-27
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-139, 4-6=-27
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-99, 4-6=-27
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-99, 4-6=-27
22) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-123, 4-6=-27
23) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-123, 4-6=-27
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=24, 1-7=50, 3-4=6
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=-6, 1-7=-50, 3-4=-24
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=19, 1-7=-34, 3-4=4
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=-4, 1-7=-34, 3-4=-19
33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-176, 4-6=-27

Job	Truss	Truss Type	Qty	Ply	MoBETTA'S
MOBETTA	T26	ROOF SPECIAL GIRDER	1	2	I53978446

Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101, 8.620 s Aug 22 2022 MiTek Industries, Inc. Wed Aug 31 16:27:19 2022 Page 1
ID:qEM?Ic9UmTPCdQUz4LE1lUyj1bn-DzusrrHiIL4JSXy8vsoRq39hCLgx0bNYCqWHfvyiGz6

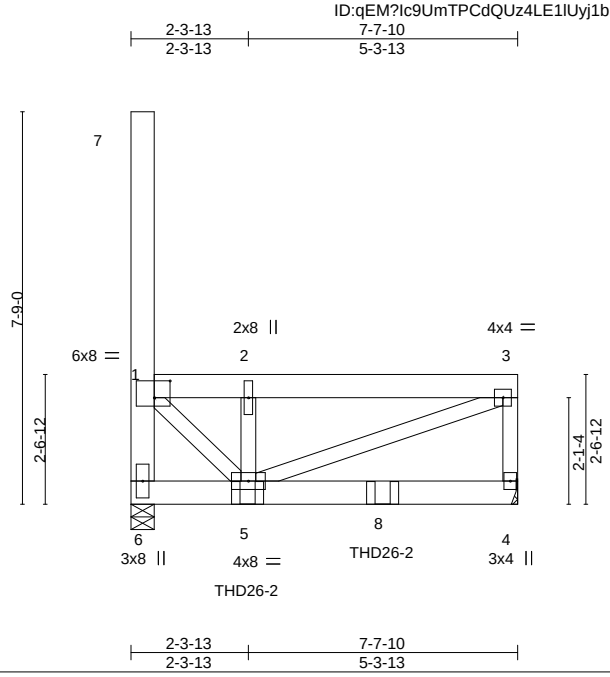


Plate Offsets (X,Y)-- [1:0-3-12,0-4-0]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.02	4-5	>999	360	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.02	4-5	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-P							Weight: 135 lb	FT = 3%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 6-7: 2x6 SP 2400F 2.0E

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.

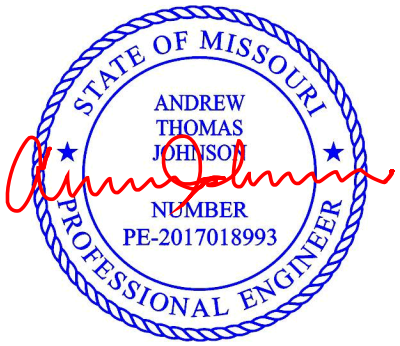
REACTIONS. (size) 6=0-5-8, 4=Mechanical
Max Horz 6=-449(LC 44)
Max Uplift 6=-321(LC 12), 4=-316(LC 13)
Max Grav 6=997(LC 1), 4=967(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-1029/1089, 1-2=-1228/1201, 2-3=-1228/1201, 3-4=-796/753
BOT CHORD 5-6=-956/1724
WEBS 1-5=-709/1374, 2-5=-831/900, 3-5=-1335/1387

NOTES-

1) 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: 2x6 - 2 rows staggered at 0-9-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 3 degree rotation about its center.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=321, 4=316.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 4, 5, 6, 22, 23, 25, 26, 27, 28, 33, 54, 55, 56, 57 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
14) Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent spaced at 2-8-0 oc max. starting at 2-3-10 from the left end to 4-11-10 to connect truss(es) to front face of bottom chord.

Continued on page 2



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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

15) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-176, 4-6=-27
   Concentrated Loads (lb)
   Vert: 5=-246(F) 8=-246(F)
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-139, 4-6=-27
   Concentrated Loads (lb)
   Vert: 5=-194(F) 8=-194(F)
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-99, 4-6=-27
   Concentrated Loads (lb)
   Vert: 5=-194(F) 8=-194(F)
6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-99, 4-6=-27
   Concentrated Loads (lb)
   Vert: 5=-194(F) 8=-194(F)
22) Dead + Snow (Unbal. Left): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-123, 4-6=-27
   Concentrated Loads (lb)
   Vert: 5=-246(F) 8=-246(F)
23) Dead + Snow (Unbal. Right): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (plf)
   Vert: 1-3=-123, 4-6=-27
   Concentrated Loads (lb)
   Vert: 5=-246(F) 8=-246(F)
25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=24, 1-7=50, 3-4=6
   Concentrated Loads (lb)
   Vert: 5=42(F) 8=42(F)
26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=-6, 1-7=-50, 3-4=-24
   Concentrated Loads (lb)
   Vert: 5=42(F) 8=42(F)
27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=19, 1-7=-34, 3-4=4
   Concentrated Loads (lb)
   Vert: 5=42(F) 8=42(F)
28) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=-4, 1-7=-34, 3-4=-19
   Concentrated Loads (lb)
   Vert: 5=42(F) 8=42(F)
33) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-176, 4-6=-27
   Concentrated Loads (lb)
   Vert: 5=-246(F) 8=-246(F)
54) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=24, 1-7=50, 3-4=6
   Concentrated Loads (lb)
   Vert: 5=-152(F) 8=-152(F)
55) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-3=-122, 4-6=-27
   Horz: 1-6=-6, 1-7=-50, 3-4=-24
   Concentrated Loads (lb)
   Vert: 5=-152(F) 8=-152(F)
56) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-122, 4-6=-27

Horz: 1-6=19, 1-7=-34, 3-4=4

Concentrated Loads (lb)

Vert: 5=-152(F) 8=-152(F)

57) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-3=-122, 4-6=-27

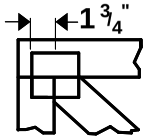
Horz: 1-6=-4, 1-7=-34, 3-4=-19

Concentrated Loads (lb)

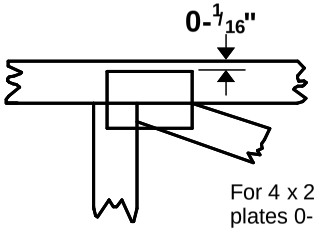
Vert: 5=-152(F) 8=-152(F)

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.

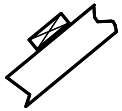
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

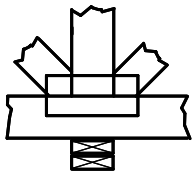
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

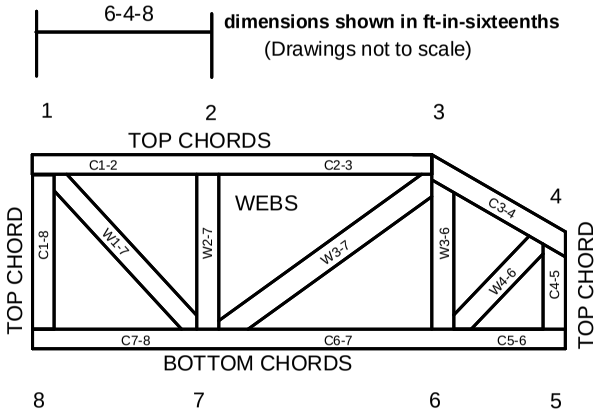


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: 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.

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. 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.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. 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.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. 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 responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. 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 specified.
13. 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.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

21.The design does not take into account any dynamic or other loads other than those expressly stated.