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

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri

11/10/2021

joe frogge

Re: 211286
Harmon - Chipotle - LS

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

Pages or sheets covered by this seal: I48467936 thru I48467957

My license renewal date for the state of Missouri is December 31, 2021.

Missouri COA: Engineering 001193

Jezerinac Geers
Structural Engineering

JGA Project No.: 21.34.059
Reviewed By: LG
Date Reviewed: 11/08/2021

Submittals have been reviewed for conformance with the design principles and Contract Documents. Corrections or comments made as part of this review process do not relieve the Contractor from compliance with the requirements of the plans and specifications, and with applicable codes and laws. The contractor is not relieved of his sole responsibility regarding checking of dimensions; accuracy or completeness of the submittal; coordination of the Work with other trades; information that pertains solely to fabrication process; of the means, methods, and sequences of the construction process; and performing the Work in a safe and satisfactory manner.

[X] NO EXCEPTIONS TAKEN
[ ] MAKE CORRECTIONS NOTED
[ ] REVISE AND RESUBMIT
[ ] NOT REVIEWED
[ ] REJECTED

JEZERINAC GEERS COMMENTS ON THIS SUBMITTAL ARE POSTED IN RED.

October 22,2021

Sevier, Scott ,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	Harmon - Chipotle - LS
211286	A01	MONOPITCH	2	2	I48467936
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 21 09:06:24 2021 Page 1
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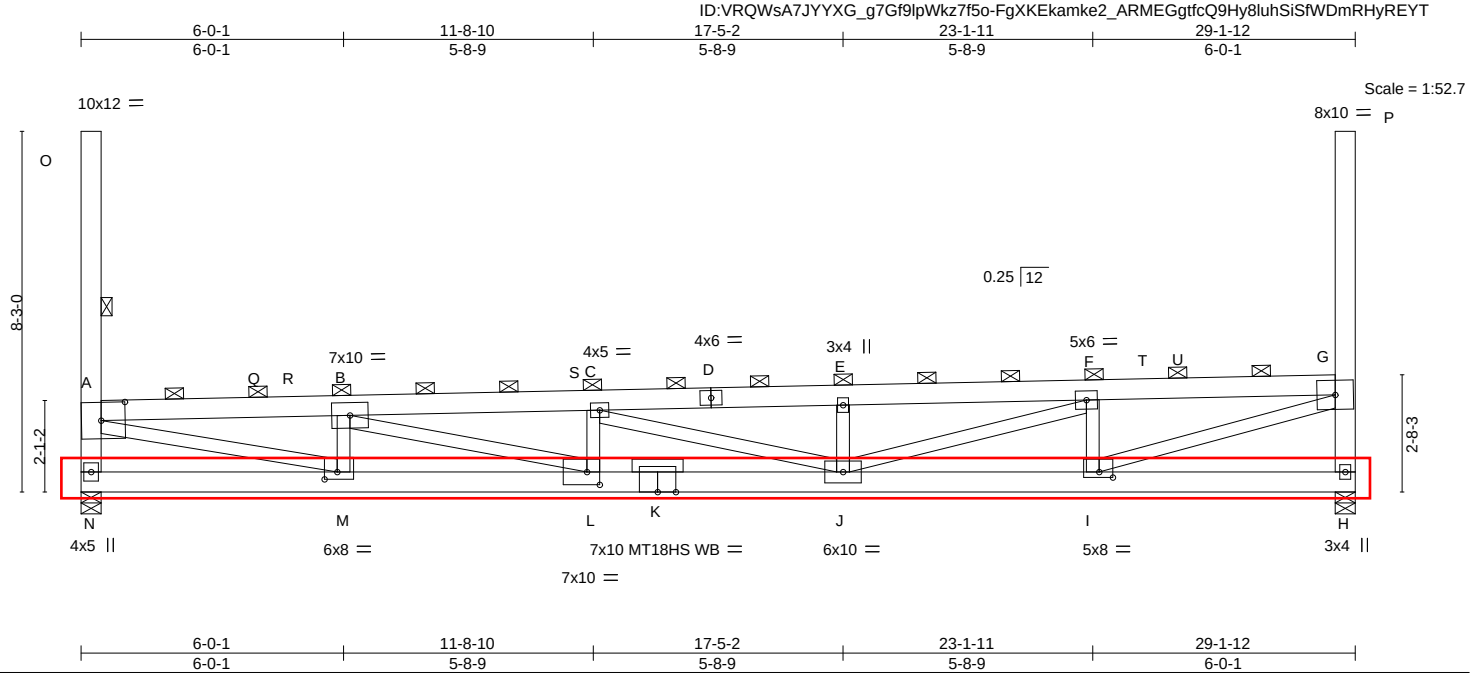

Plate Offsets (X,Y)-- [A:0-6-10,0-5-0], [I:0-3-12,0-1-8], [L:0-3-8,0-3-8], [M:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-11-8	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.41	J-L	>848	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.70	J-L	>492	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.07	H	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-MS							Weight: 445 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x6 SP 2400F 2.0E
BOT CHORD	2x6 SP 2400F 2.0E
WEBS	2x4 SP No.3 *Except*
	N-O,H-P: 2x6 SP No.1, A-M,G-I: 2x4 SP 1650F 1.5E, F-J: 2x4 SP No.2
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	2-0-0 oc purlins (5-6-15 max.), except end verticals (Switched from sheeted: Spacing > 2-8-0). Except: 6-0-0 oc bracing: A-N 10-0-0 oc bracing: A-O
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt A-O

REACTIONS. (size) N=0-5-8, H=0-5-8
Max Horz N=843(LC 7)
Max Uplift N=-727(LC 6), H=-656(LC 7)
Max Grav N=3831(LC 16), H=3820(LC 16)

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

TOP CHORD	A-N=-3599/767, A-B=-9924/2370, B-C=-13917/2940, C-E=-13078/2761, E-F=-13077/2767, F-G=-8370/2014, G-H=-3642/707
BOT CHORD	M-N=-1425/1951, L-M=-2266/9893, J-L=-2623/13896, I-J=-1679/8365, H-I=-360/645
WEBS	A-M=-1879/9486, B-M=-2565/618, B-L=-1132/4191, C-L=-1056/440, C-J=-1101/505, E-J=-1291/316, F-J=-1053/5006, F-I=-2972/657, G-I=-1423/8496

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) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 727 lb uplift at joint N and 656 lb uplift at joint H.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 17 lb up at 11-4-3 on top chord. The design/selection of such connection device(s) is the responsibility of others.

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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: R-T=-214(F=-107), H-N=-30
   Concentrated Loads (lb)
   Vert: S=-50
   Trapezoidal Loads (plf)
   Vert: A=-253(F=-107)-to-Q=-219(F=-107), Q=-222(F=-107)-to-R=-215(F=-107), T=-215(F=-107)-to-U=-222(F=-107), U=-219(F=-107)-to-G=-253(F=-107)

Job	Truss	Truss Type	Qty	Ply	Harmon - Chipotle - LS
211286	A02	MONOPITCH	2	2	I48467937
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 21 09:06:26 2021 Page 1
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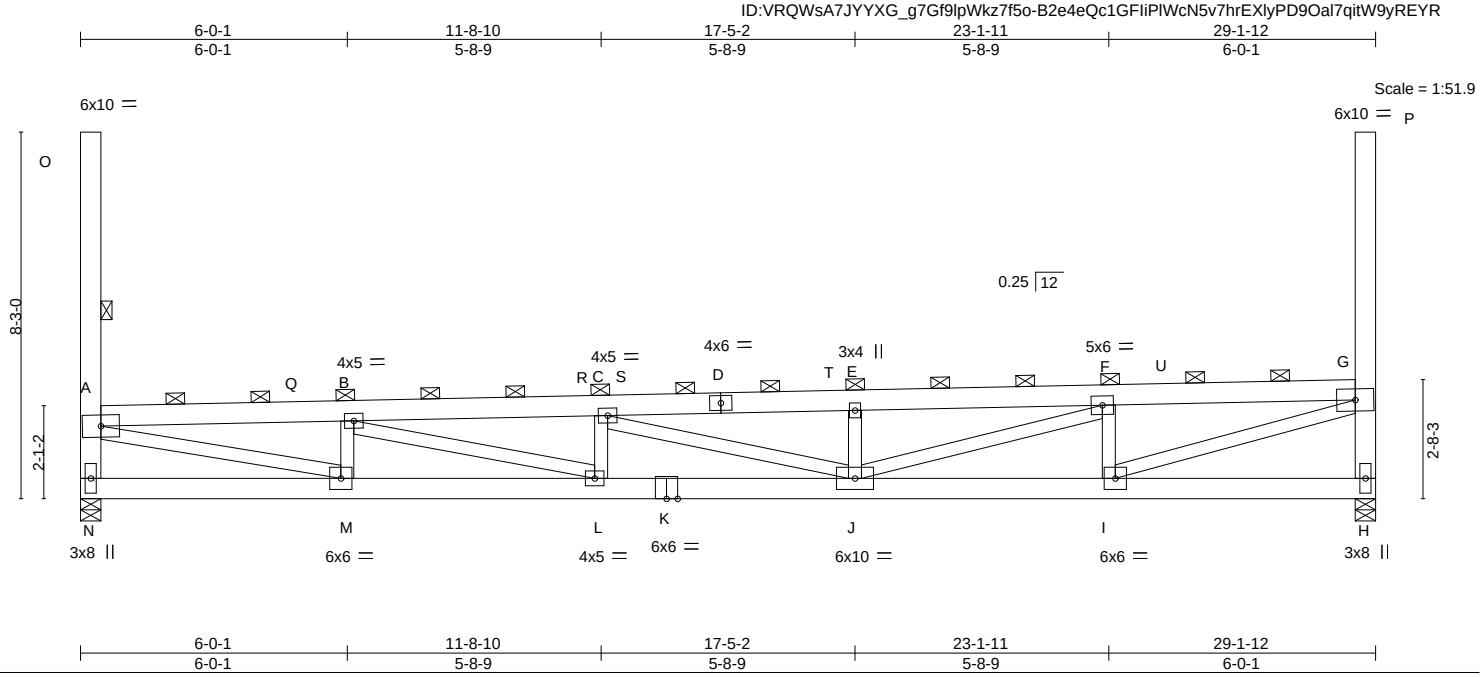

LOADING (psf)		SPACING-	2-11-8	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.30	J-L	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.51	J-L	>678	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.05	H	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-MS							Weight: 442 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
N-O,H-P: 2x6 SP No.1, A-M,G-I: 2x4 SP No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (5-5-14 max.), except end verticals
(Switched from sheeted: Spacing > 2-8-0). Except:
6-0-0 oc bracing: A-N
10-0-0 oc bracing: A-O
BOT CHORD Rigid ceiling directly applied or 9-1-8 oc bracing.
WEBS 1 Row at midpt A-O

REACTIONS. (size) N=0-5-8, H=0-5-8
Max Horz N=843(LC 11)
Max Uplift N=-484(LC 10), H=-355(LC 14)
Max Grav N=2367(LC 20), H=2355(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-N=-2200/1027, A-B=-6072/2686, B-C=-8510/2783, C-E=-7962/2559, E-F=-7962/2568, F-G=-5110/2244, G-H=-2221/1045
BOT CHORD M-N=-2260/2351, L-M=-3453/6054, J-L=-3541/8498, I-J=-1704/5108, H-I=-527/638
WEBS A-M=-2575/5825, B-M=-1501/804, B-L=-1569/2558, C-L=-576/570, C-J=-693/792, E-J=-706/408, F-J=-1571/3033, F-I=-1742/843, G-I=-2090/5196

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) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-2-12 to 12-2-12, Exterior(2) 12-2-12 to 16-11-0, Corner(3) 16-11-0 to 28-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 484 lb uplift at joint N and 355 lb uplift at joint H.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 20 lb up at 11-4-3 on top chord. The design/selection of such connection device(s) is the responsibility of others.

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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: Q-U=-111, H-N=-30
   Concentrated Loads (lb)
   Vert: R=-50
   Trapezoidal Loads (plf)
   Vert: A=-153-to-Q=-112, U=-112-to-G=-153

Job	Truss	Truss Type	Qty	Ply	Harmon - Chipotle - LS
211286	A03	MONOPITCH	2	2	I48467938
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 21 09:06:27 2021 Page 1
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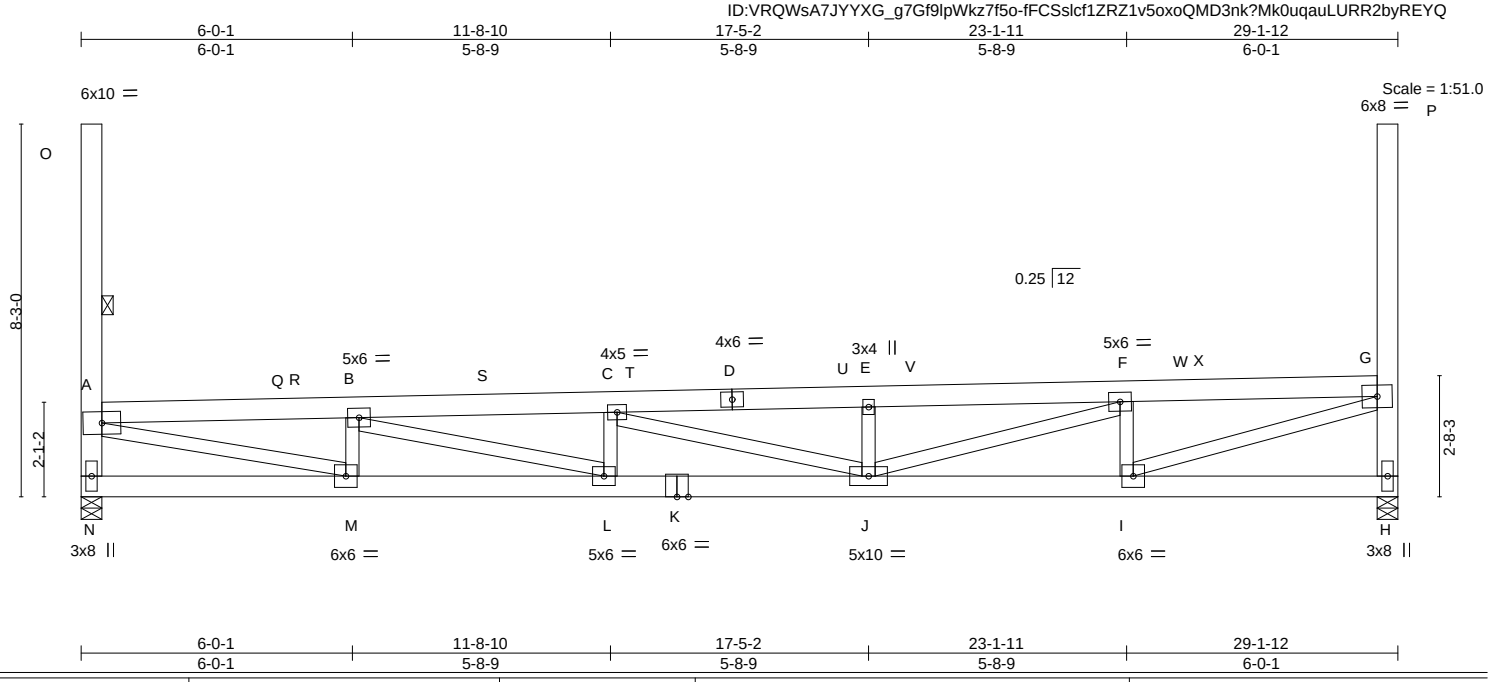

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.33	J-L	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.55	J-L	>624	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.06	H	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-MS							Weight: 442 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
N-O,H-P: 2x6 SP No.1, A-M,G-I: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-6 oc purlins, except end verticals. Except:
6-0-0 oc bracing: A-N
10-0-0 oc bracing: A-O
BOT CHORD Rigid ceiling directly applied or 8-11-7 oc bracing.
WEBS 1 Row at midpt A-O

REACTIONS. (size) N=0-5-8, H=0-5-8
Max Horz N=760(LC 11)
Max Uplift N=-480(LC 10), H=-424(LC 14)
Max Grav N=2399(LC 20), H=2752(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-N=-2236/1019, A-B=-6274/2735, B-C=-8894/2990, C-E=-9047/3000, E-F=-9054/3009, F-G=-6326/2659, G-H=-2607/1179
BOT CHORD M-N=-2058/2100, L-M=-3427/6256, J-L=-3672/8882, I-J=-2173/6322, H-I=-491/559
WEBS A-M=-2609/6027, B-M=-1583/810, B-L=-1579/2750, C-L=-634/556, C-J=-647/612, E-J=-909/475, F-J=-1481/2898, F-I=-2245/1025, G-I=-2589/6476

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) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-2-12 to 12-2-12, Exterior(2) 12-2-12 to 16-11-0, Corner(3) 16-11-0 to 28-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 480 lb uplift at joint N and 424 lb uplift at joint H.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 164 lb down and 49 lb up at 4-4-13, and 66 lb down and 20 lb up at 8-11-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.

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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: R-V=-93, V-W=-240, H-N=-27
   Concentrated Loads (lb)
   Vert: Q=-125 S=-50
   Trapezoidal Loads (plf)
   Vert: A=-135-to-R=-94, W=-241-to-X=-245, X=-98-to-G=-135

Job	Truss	Truss Type	Qty	Ply	Harmon - Chipotle - LS
211286	A04	MONOPITCH	3	2	I48467939

Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 21 09:06:28 2021 Page 1
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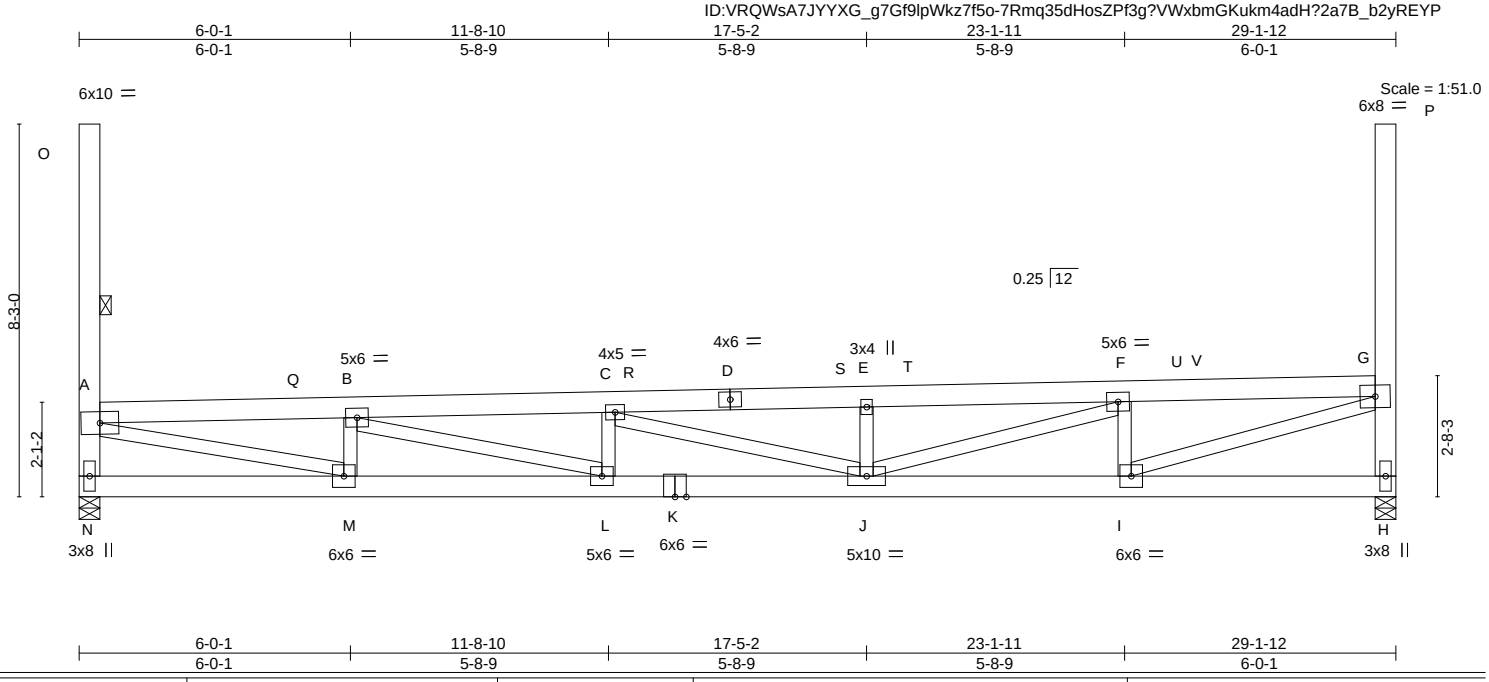

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.32	J-L	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.54	J-L	>642	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.06	H	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-MS							Weight: 442 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
N-O,H-P: 2x6 SP No.1, A-M,G-I: 2x4 SP No.2

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

REACTIONS. (size) N=0-5-8, H=0-5-8
Max Horz N=760(LC 11)
Max Uplift N=-457(LC 10), H=-419(LC 14)
Max Grav N=2257(LC 20), H=2718(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-N=-2102/970, A-B=-5905/2591, B-C=-8586/2869, C-E=-8858/2930, E-F=-8866/2939, F-G=-6236/2626, G-H=-2574/1166
BOT CHORD M-N=-2043/2114, L-M=-3282/5888, J-L=-3551/8575, I-J=-2139/6231, H-I=-490/560
WEBS A-M=-2481/5683, B-M=-1478/771, B-L=-1602/2813, C-L=-656/564, C-J=-694/713, E-J=-911/476, F-J=-1439/2794, F-I=-2211/1011, G-I=-2552/6382

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) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-2-12 to 12-2-12, Exterior(2) 12-2-12 to 16-11-0, Corner(3) 16-11-0 to 28-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 457 lb uplift at joint N and 419 lb uplift at joint H.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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: Q-T=-93, T-U=-240, H-N=-27

Trapezoidal Loads (plf)

Vert: A=-135-to-Q=-94, U=-241-to-V=-245, V=-98-to-G=-135

Job	Truss	Truss Type	Qty	Ply	Harmon - Chipotle - LS
211286	A05	MONOPITCH	2	2	I48467940
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 21 09:06:30 2021 Page 1
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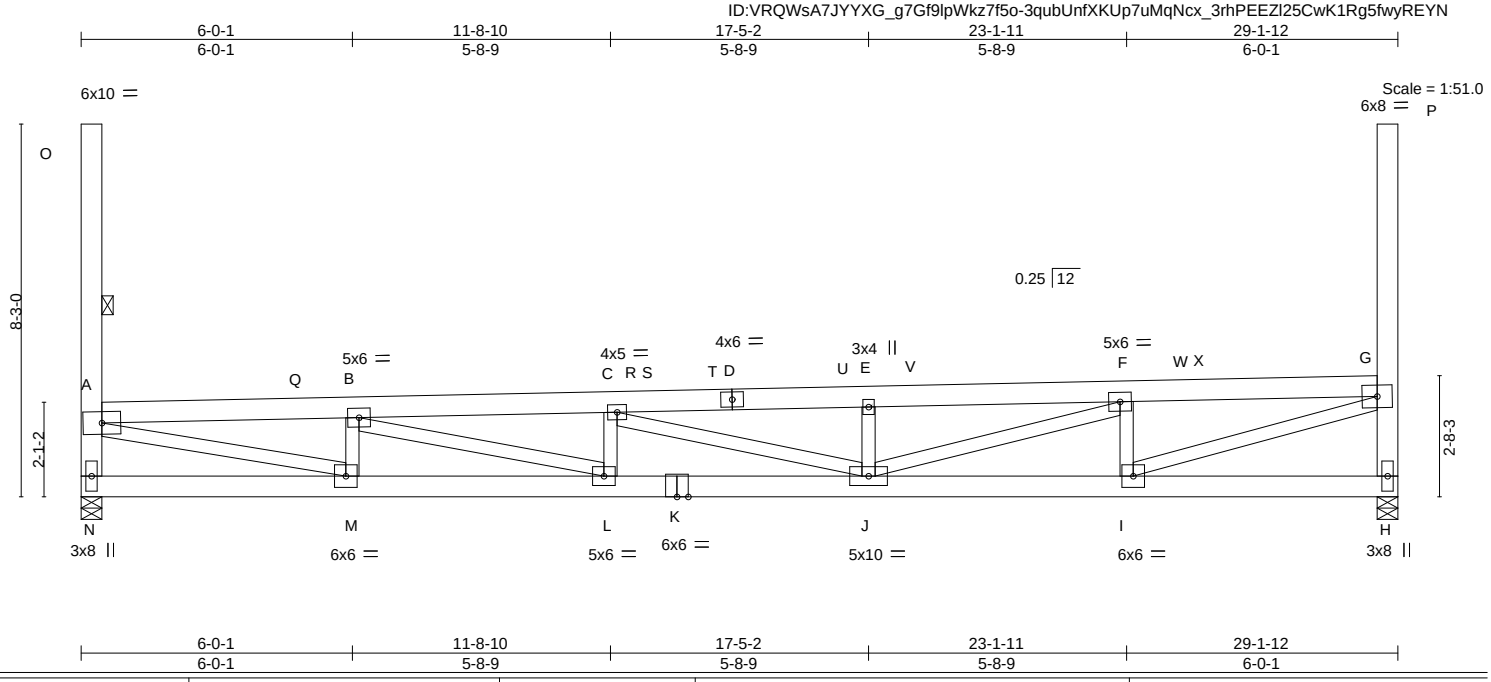

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.31	J-L	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.53	J-L	>649	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.05	H	n/a	n/a		
BCLL	0.0	Code IBC2018/TPI2014		Matrix-MS							Weight: 442 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
N-O,H-P: 2x6 SP No.1, A-M,G-I: 2x4 SP No.2

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

REACTIONS. (size) N=0-5-8, H=0-5-8
Max Horz N=760(LC 13)
Max Uplift N=-456(LC 10), H=-406(LC 14)
Max Grav N=2253(LC 20), H=2640(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-N=-2099/969, A-B=-5889/2585, B-C=-8572/2864, C-E=-8702/2872, E-F=-8707/2880, F-G=-6024/2547, G-H=-2499/1137
BOT CHORD M-N=-2043/2114, L-M=-3276/5872, J-L=-3546/8561, I-J=-2061/6020, H-I=-488/562
WEBS A-M=-2475/5667, B-M=-1471/769, B-L=-1603/2814, C-L=-660/566, C-J=-638/592, E-J=-883/465, F-J=-1462/2851, F-I=-2127/978, G-I=-2465/6162

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) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-2-12 to 12-2-12, Exterior(2) 12-2-12 to 16-11-0, Corner(3) 16-11-0 to 28-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 456 lb uplift at joint N and 406 lb uplift at joint H.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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

October 22,2021

Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: Q-S=-93, S-T=-133, T-V=-93, V-W=-218, H-N=-27

Trapezoidal Loads (plf)

Vert: A=-135-to-Q=-94, W=-219-to-X=-223, X=-98-to-G=-135

Job	Truss	Truss Type	Qty	Ply	Harmon - Chipotle - LS
211286	A06	MONOPITCH	1	2	I48467941
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 21 09:06:32 2021 Page 1
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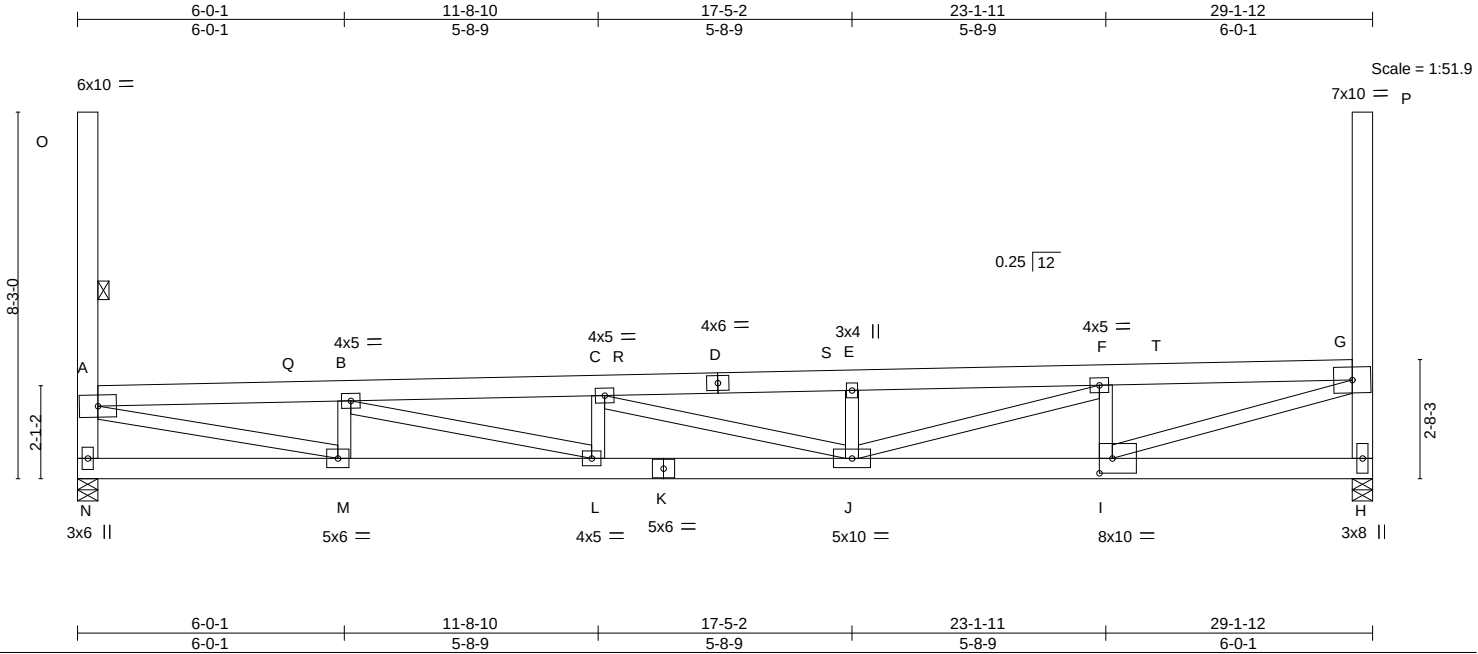

Plate Offsets (X,Y)-- [I:0-3-8,0-4-0]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.26	J-L	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.43	J-L	>798	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.04	H	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-MS							Weight: 442 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
N-O,H-P: 2x6 SP No.1, A-M: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except:
6-0-0 oc bracing: A-N
10-0-0 oc bracing: A-O
BOT CHORD Rigid ceiling directly applied or 9-10-12 oc bracing.
WEBS 1 Row at midpt A-O

REACTIONS. (size) N=0-5-8, H=0-5-8
Max Horz N=760(LC 11)
Max Uplift N=-417(LC 10), H=-303(LC 14)
Max Grav N=2018(LC 20), H=2018(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-N=-1873/885, A-B=-5138/2290, B-C=-7164/2310, C-E=-6751/2148, E-F=-6751/2157, F-G=-4342/1927, G-H=-1897/900
BOT CHORD M-N=-2030/2127, L-M=-2981/5123, J-L=-2993/7154, I-J=-1440/4340, H-I=-474/576
WEBS A-M=-2200/4924, B-M=-1260/690, B-L=-1348/2126, C-L=-465/494, C-J=-557/680, E-J=-601/354, F-J=-1348/2562, F-I=-1472/721, G-I=-1773/4402

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) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-2-12 to 12-2-12, Exterior(2) 12-2-12 to 16-11-0, Corner(3) 16-11-0 to 28-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 417 lb uplift at joint N and 303 lb uplift at joint H.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

October 22,2021

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: Q-T=-93, H-N=-27
   Trapezoidal Loads (plf)
   Vert: A=-135-to-Q=-94, T=-94-to-G=-135

Job	Truss	Truss Type	Qty	Ply	Harmon - Chipotle - LS
211286	A07	MONOPITCH	4	2	I48467942
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 21 09:06:33 2021 Page 1
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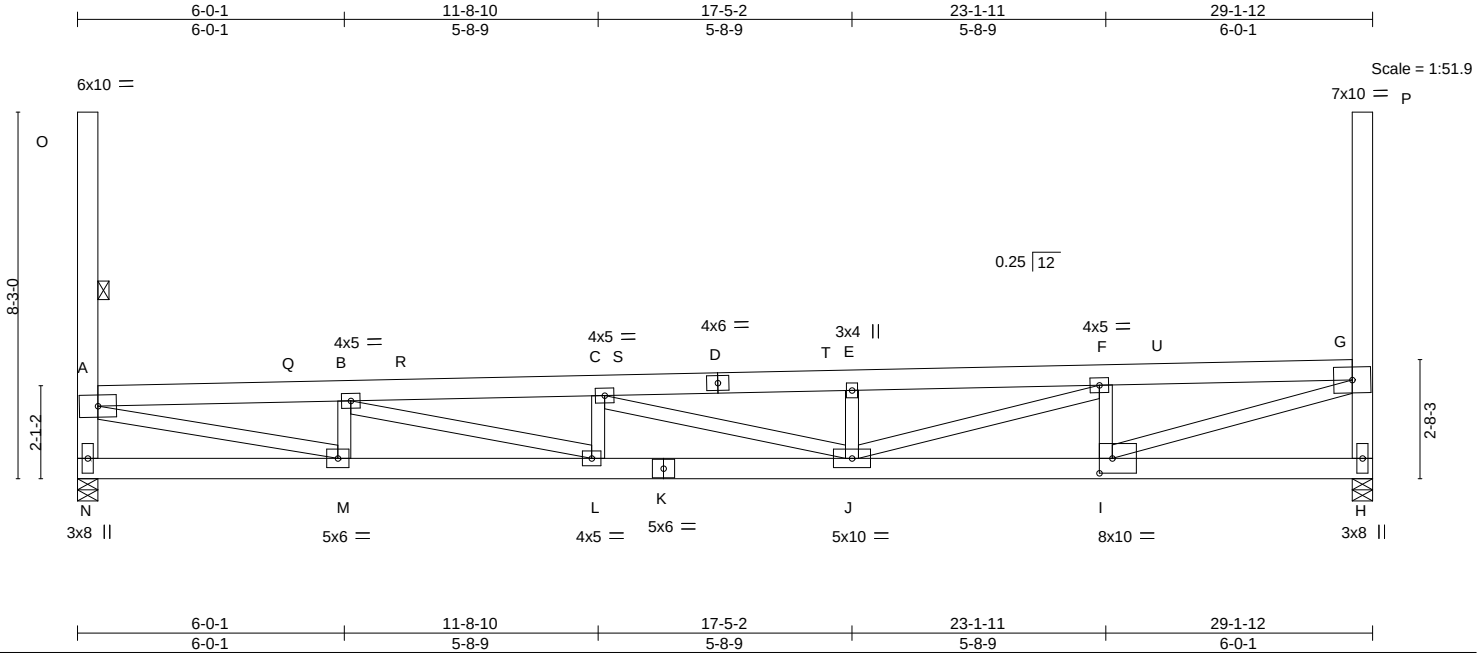

Plate Offsets (X,Y)-- [I:0-3-8,0-4-0]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.27	J-L	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.44	J-L	>774	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.05	H	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-MS							Weight: 442 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
N-O,H-P: 2x6 SP No.1, A-M: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-14 oc purlins, except end verticals. Except:
6-0-0 oc bracing: A-N
10-0-0 oc bracing: A-O
BOT CHORD Rigid ceiling directly applied or 9-8-1 oc bracing.
WEBS 1 Row at midpt A-O

REACTIONS. (size) N=0-5-8, H=0-5-8
Max Horz N=760(LC 11)
Max Uplift N=-448(LC 10), H=-307(LC 14)
Max Grav N=2205(LC 20), H=2045(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-N=-2052/951, A-B=-5477/2422, B-C=-7403/2404, C-E=-6901/2204, E-F=-6901/2212, F-G=-4413/1953, G-H=-1923/910
BOT CHORD M-N=-2049/2109, L-M=-3114/5459, J-L=-3087/7393, I-J=-1466/4411, H-I=-475/575
WEBS A-M=-2311/5223, B-M=-1354/725, B-L=-1310/2024, C-L=-430/480, C-J=-637/717, E-J=-603/354, F-J=-1382/2646, F-I=-1498/731, G-I=-1802/4475

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) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-2-12 to 12-2-12, Exterior(2) 12-2-12 to 16-11-0, Corner(3) 16-11-0 to 28-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 448 lb uplift at joint N and 307 lb uplift at joint H.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

October 22,2021

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: Q-R=-123, R-U=-93, H-N=-27
   Trapezoidal Loads (plf)
   Vert: A=-165-to-Q=-124, U=-94-to-G=-135

Job	Truss	Truss Type	Qty	Ply	Harmon - Chipotle - LS
211286	A08	MONOPITCH	2	2	I48467943
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 21 09:06:34 2021 Page 1
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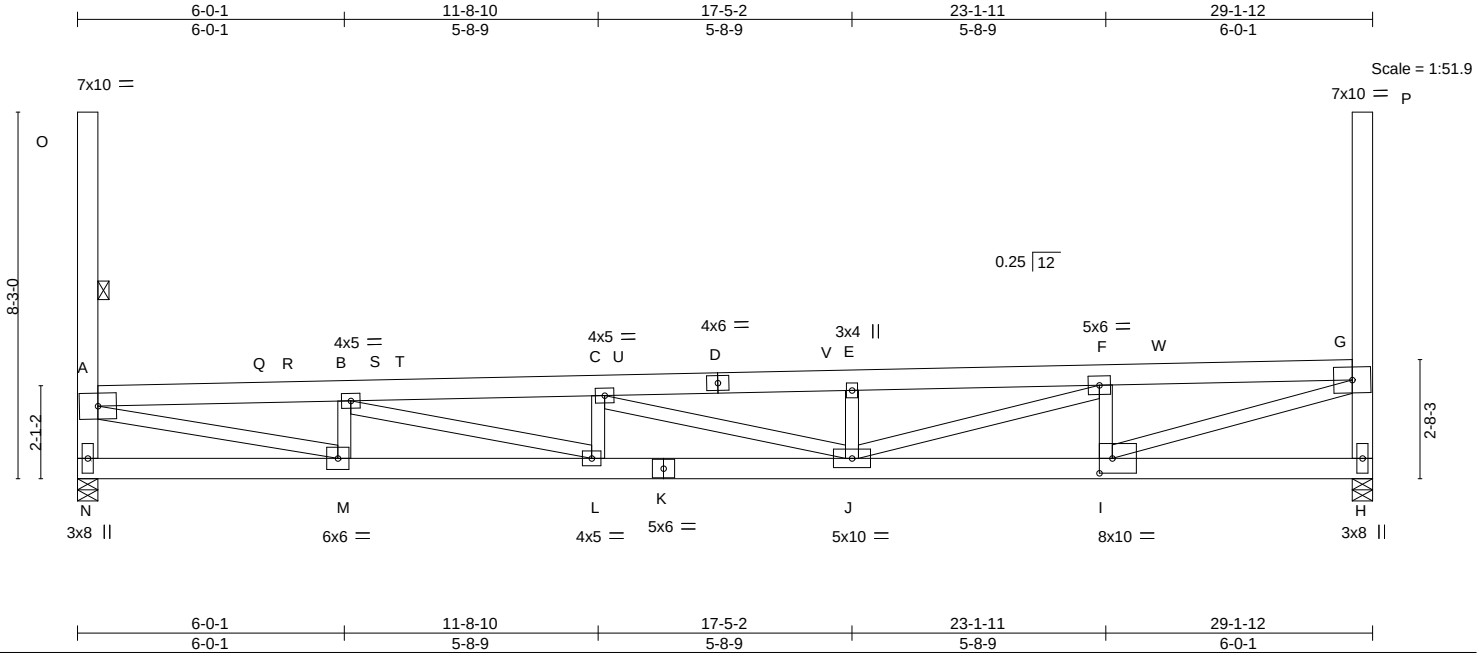

Plate Offsets (X,Y)-- [I:0-3-8,0-4-0]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.28	J-L	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.47	J-L	>730	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.05	H	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-MS							Weight: 442 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
N-O,H-P: 2x6 SP No.1, A-M: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-5 oc purlins, except end verticals. Except:
6-0-0 oc bracing: A-N
10-0-0 oc bracing: A-O
BOT CHORD Rigid ceiling directly applied or 9-3-4 oc bracing.
WEBS 1 Row at midpt A-O

REACTIONS. (size) N=0-5-8, H=0-5-8
Max Horz N=760(LC 11)
Max Uplift N=-488(LC 10), H=-316(LC 14)
Max Grav N=2446(LC 20), H=2098(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-N=-2278/1035, A-B=-6145/2684, B-C=-7892/2595, C-E=-7205/2317, E-F=-7205/2325, F-G=-4557/2006, G-H=-1975/931
BOT CHORD M-N=-2071/2088, L-M=-3376/6126, J-L=-3278/7880, I-J=-1519/4555, H-I=-476/573
WEBS A-M=-2546/5857, B-M=-1550/798, B-L=-1240/1836, C-L=-364/456, C-J=-890/793, E-J=-604/355, F-J=-1449/2816, F-I=-1553/753, G-I=-1861/4625

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) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-2-12 to 12-2-12, Exterior(2) 12-2-12 to 16-11-0, Corner(3) 16-11-0 to 28-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 488 lb uplift at joint N and 316 lb uplift at joint H.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

October 22,2021

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: R-S=-235, S-T=-123, T-W=-93, H-N=-27
   Trapezoidal Loads (plf)
   Vert: A=-165-to-Q=-130, Q=-242-to-R=-236, W=-94-to-G=-135

Job	Truss	Truss Type	Qty	Ply	Harmon - Chipotle - LS
211286	A09	MONOPITCH	1	2	I48467944
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 21 09:06:36 2021 Page 1
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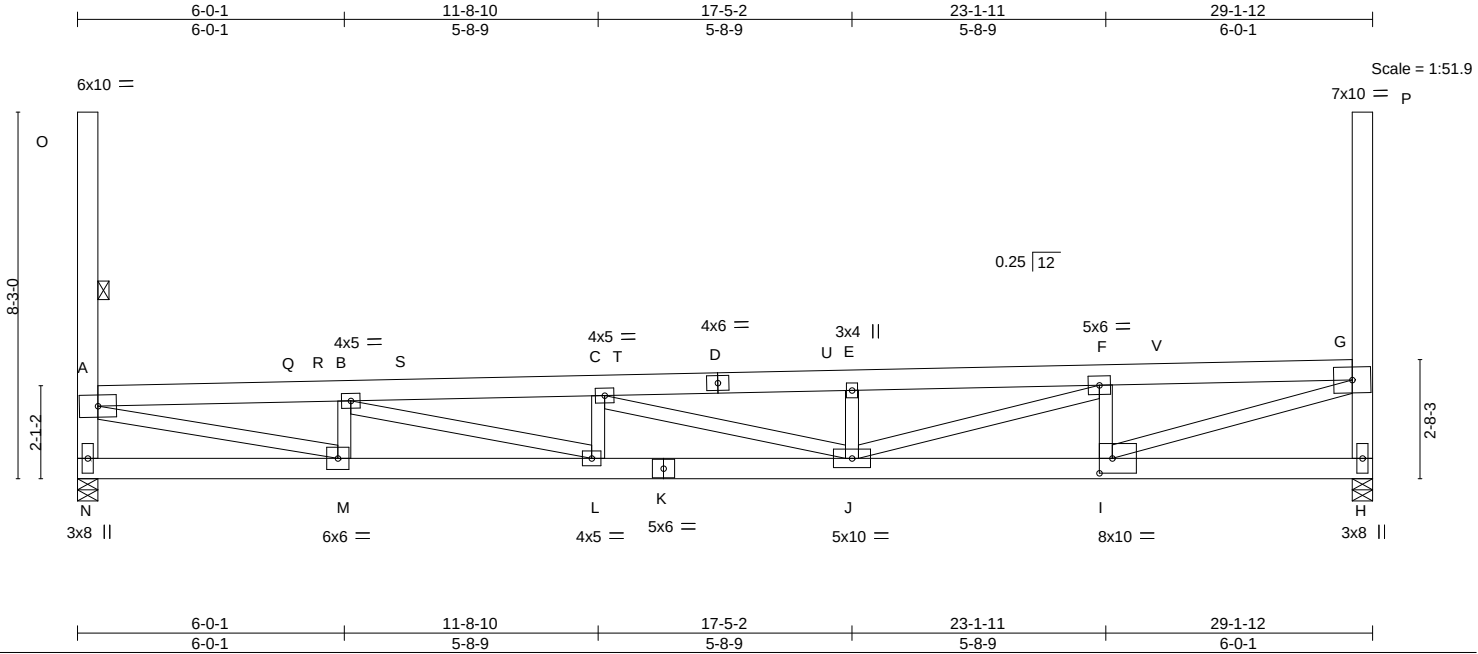

Plate Offsets (X,Y)-- [I:0-3-8,0-4-0]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.28	J-L	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.47	J-L	>725	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.05	H	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-MS							Weight: 442 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
N-O,H-P: 2x6 SP No.1, A-M: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-8 oc purlins, except end verticals. Except:
6-0-0 oc bracing: A-N
10-0-0 oc bracing: A-O
BOT CHORD Rigid ceiling directly applied or 9-3-4 oc bracing.
WEBS 1 Row at midpt A-O

REACTIONS. (size) N=0-5-8, H=0-5-8
Max Horz N=760(LC 11)
Max Uplift N=-484(LC 10), H=-317(LC 14)
Max Grav N=2420(LC 20), H=2104(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-N=-2253/1025, A-B=-6148/2685, B-C=-7954/2619, C-E=-7233/2327, E-F=-7232/2335, F-G=-4571/2012, G-H=-1981/933
BOT CHORD M-N=-2063/2096, L-M=-3377/6129, J-L=-3302/7939, I-J=-1525/4570, H-I=-476/573
WEBS A-M=-2556/5884, B-M=-1555/800, B-L=-1262/1895, C-L=-384/463, C-J=-934/806, E-J=-597/352, F-J=-1454/2830, F-I=-1559/755, G-I=-1867/4641

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) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-2-12 to 12-2-12, Exterior(2) 12-2-12 to 16-11-0, Corner(3) 16-11-0 to 28-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 484 lb uplift at joint N and 317 lb uplift at joint H.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

October 22,2021

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: Q-R=-123, R-S=-270, S-V=-93, H-N=-27
   Trapezoidal Loads (plf)
   Vert: A=-165-to-Q=-124, V=-94-to-G=-135

Job	Truss	Truss Type	Qty	Ply	Harmon - Chipotle - LS
211286	A10	MONOPITCH	3	2	I48467945
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 21 09:06:38 2021 Page 1
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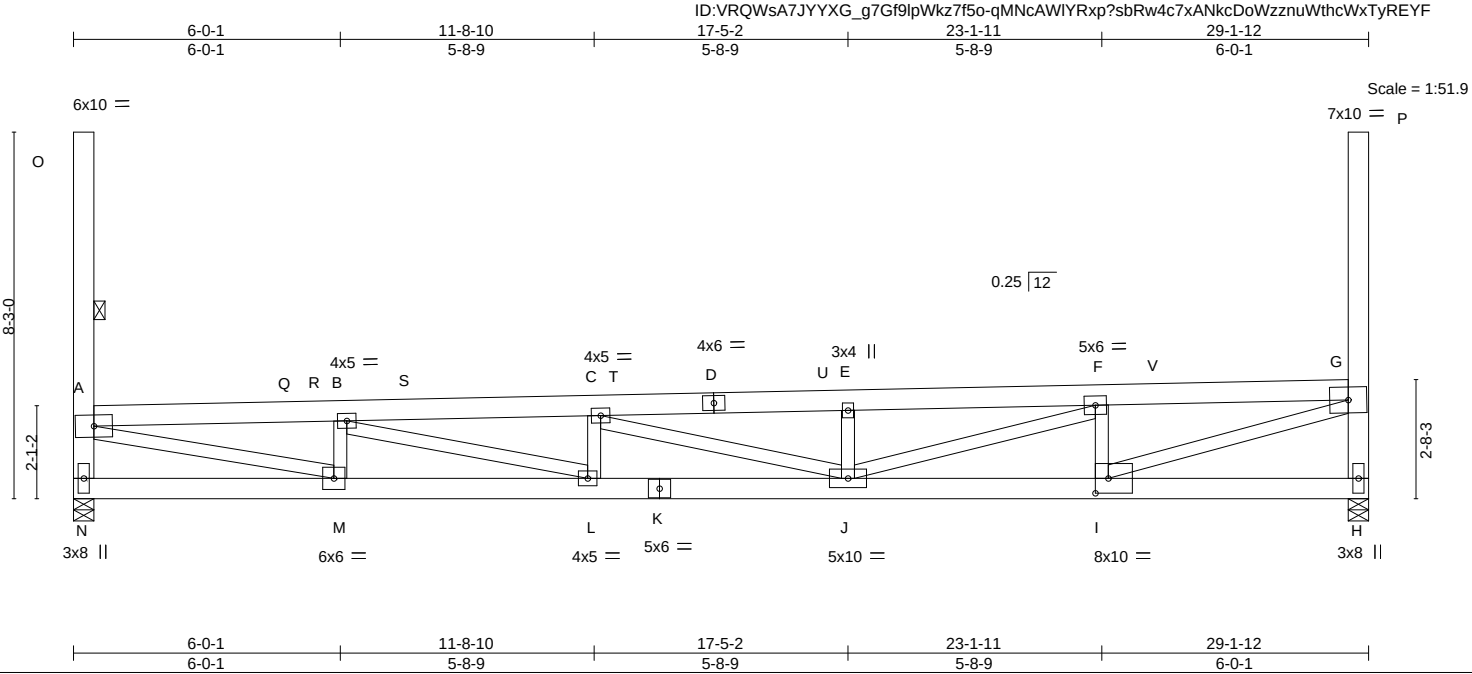

Plate Offsets (X,Y)-- [I:0-3-8,0-4-0]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.28	J-L	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.46	J-L	>741	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.05	H	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-MS							Weight: 442 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
N-O,H-P: 2x6 SP No.1, A-M: 2x4 SP No.2

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

REACTIONS. (size) N=0-5-8, H=0-5-8
Max Horz N=760(LC 13)
Max Uplift N=-456(LC 10), H=-313(LC 14)
Max Grav N=2252(LC 20), H=2084(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-N=-2091/966, A-B=-5873/2578, B-C=-7775/2548, C-E=-7118/2285, E-F=-7118/2293, F-G=-4518/1992, G-H=-1961/925
BOT CHORD M-N=-2044/2113, L-M=-3270/5857, J-L=-3231/7761, I-J=-1505/4516, H-I=-476/574
WEBS A-M=-2469/5649, B-M=-1481/772, B-L=-1299/1993, C-L=-418/476, C-J=-846/780, E-J=-594/351, F-J=-1428/2765, F-I=-1539/747, G-I=-1845/4585

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) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-2-12 to 12-2-12, Exterior(2) 12-2-12 to 16-11-0, Corner(3) 16-11-0 to 28-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 456 lb uplift at joint N and 313 lb uplift at joint H.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

October 22,2021

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: Q-R=-93, R-S=-240, S-V=-93, H-N=-27
   Trapezoidal Loads (plf)
      Vert: A=-135-to-Q=-94, V=-94-to-G=-135

Job	Truss	Truss Type	Qty	Ply	Harmon - Chipotle - LS
211286	B01	ROOF SPECIAL	2	2	I48467946

Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 21 09:06:42 2021 Page 1
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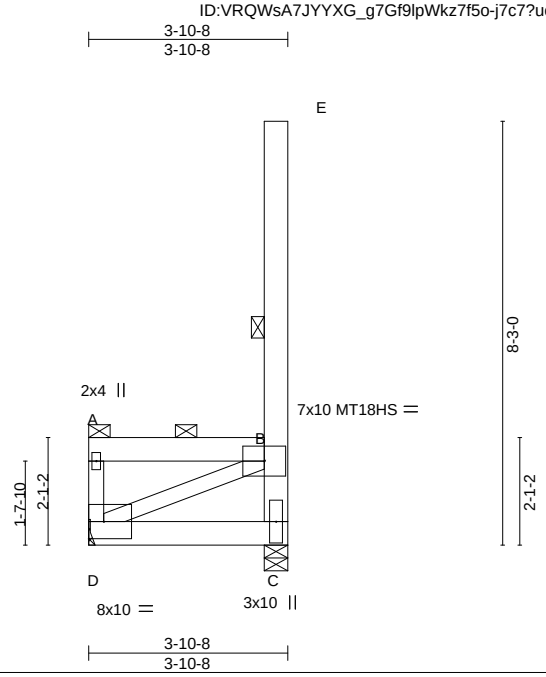

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.00	C-D	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.00	C-D	>999	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-MP							Weight: 84 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
C-E: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD 2-0-0 oc purlins: A-B, B-E, except end verticals. Except:
6-0-0 oc bracing: B-C
10-0-0 oc bracing: B-E
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt B-E

REACTIONS. (size) C=0-5-8, D=Mechanical
Max Horz D=-493(LC 10)
Max Uplift C=-656(LC 11), D=-637(LC 10)
Max Grav C=718(LC 12), D=658(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-239/407, B-C=-931/1930
BOT CHORD C-D=-830/1378
WEBS B-D=-2902/1679

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=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 656 lb uplift at joint C and 637 lb uplift at joint D.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

October 22,2021

Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: A=-130-to-B=-157

Job	Truss	Truss Type	Qty	Ply	Harmon - Chipotle - LS
211286	B02	ROOF SPECIAL	2	2	I48467947

Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 21 09:06:44 2021 Page 1

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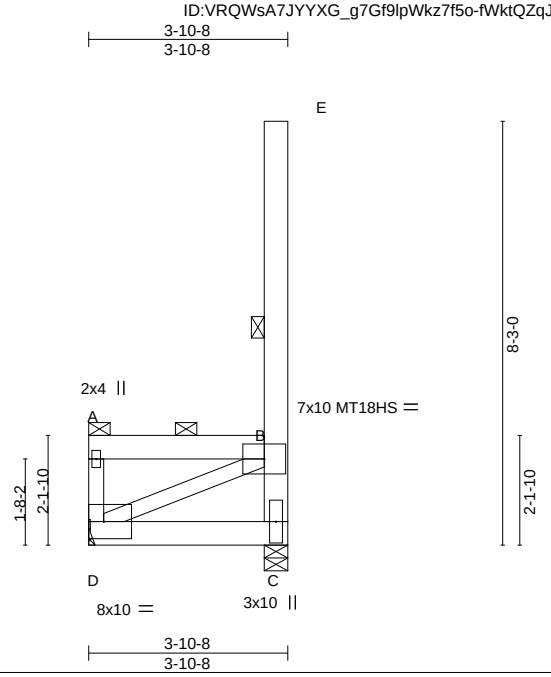

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.00	C-D	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.00	C-D	>999	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-MP							Weight: 84 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
C-E: 2x6 SP 2400F 2.0E

BRACING-

TOP CHORD 2-0-0 oc purlins: A-B, B-E, except end verticals. Except:
6-0-0 oc bracing: B-C
10-0-0 oc bracing: B-E
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt B-E

REACTIONS. (size) C=0-5-8, D=Mechanical
Max Horz D=492(LC 13)
Max Uplift C=-656(LC 11), D=-637(LC 10)
Max Grav C=718(LC 12), D=658(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-238/407, B-C=-928/1928
BOT CHORD C-D=-794/1317
WEBS B-D=-2842/1646

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=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 656 lb uplift at joint C and 637 lb uplift at joint D.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

October 22,2021

Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: A=-130-to-B=-157

Job	Truss	Truss Type	Qty	Ply	Harmon - Chipotle - LS
211286	B03	ROOF SPECIAL	2	2	I48467948
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 21 09:06:46 2021 Page 1
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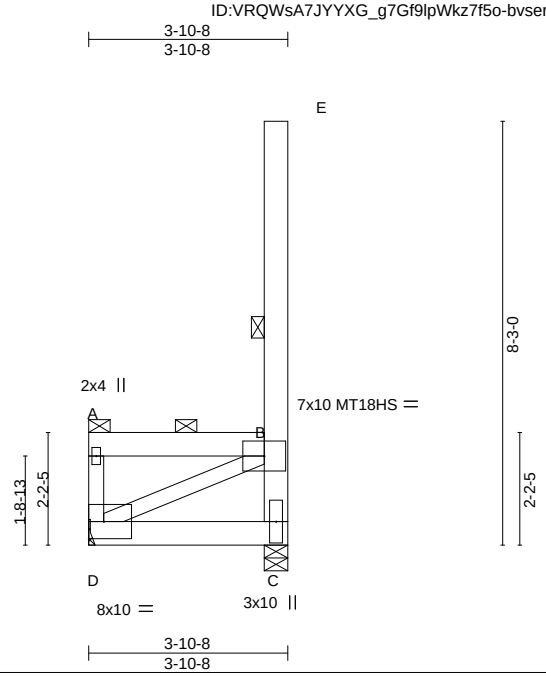

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.00	C-D	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00	C-D	>999	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-MP							Weight: 84 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
C-E: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD 2-0-0 oc purlins: A-B, B-E, except end verticals. Except:
6-0-0 oc bracing: B-C
10-0-0 oc bracing: B-E
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt B-E

REACTIONS. (size) C=0-5-8, D=Mechanical
Max Horz D=491(LC 13)
Max Uplift C=-655(LC 11), D=-636(LC 10)
Max Grav C=717(LC 12), D=657(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-238/406, B-C=-923/1926
BOT CHORD C-D=-747/1238
WEBS B-D=-2765/1604

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=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 655 lb uplift at joint C and 636 lb uplift at joint D.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

October 22,2021

Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: A=-130-to-B=-157

Job	Truss	Truss Type	Qty	Ply	Harmon - Chipotle - LS
211286	B04	ROOF SPECIAL	2	2	I48467949
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 21 09:06:48 2021 Page 1
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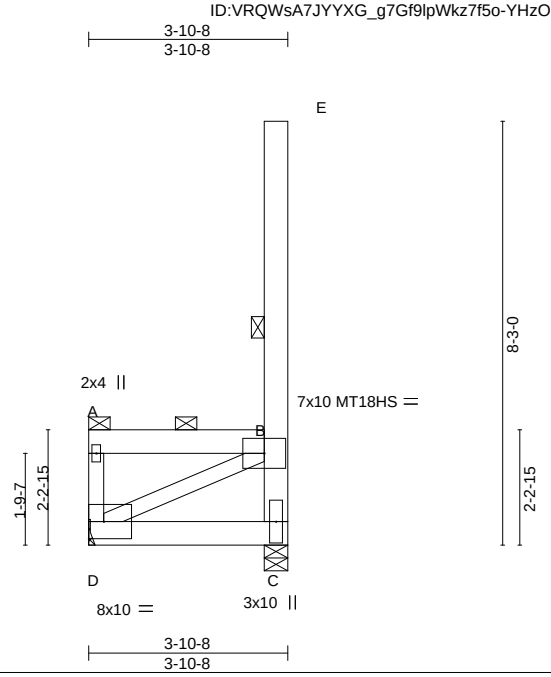

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.00	C-D	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00	C-D	>999	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.28	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-MP							Weight: 85 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
C-E: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD 2-0-0 oc purlins: A-B, B-E, except end verticals. Except:
6-0-0 oc bracing: B-C
10-0-0 oc bracing: B-E
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt B-E

REACTIONS. (size) C=0-5-8, D=Mechanical
Max Horz D=-490(LC 10)
Max Uplift C=-655(LC 11), D=-636(LC 10)
Max Grav C=717(LC 12), D=657(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-238/406, B-C=-918/1923
BOT CHORD C-D=-707/1171
WEBS B-D=-2700/1567

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=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 655 lb uplift at joint C and 636 lb uplift at joint D.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

October 22,2021

Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: A=-130-to-B=-157

Job	Truss	Truss Type	Qty	Ply	Harmon - Chipotle - LS
211286	B05	ROOF SPECIAL	2	2	I48467950
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 21 09:06:51 2021 Page 1
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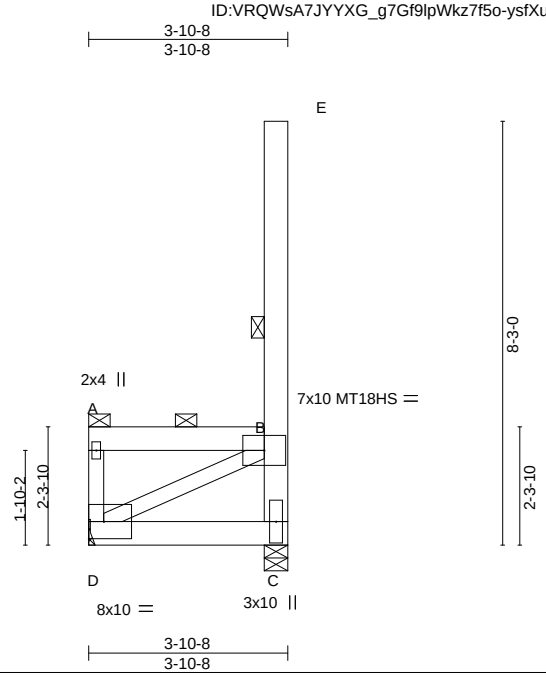

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.00	C-D	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00	C-D	>999	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-MP							Weight: 85 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
C-E: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD 2-0-0 oc purlins: A-B, B-E, except end verticals. Except:
6-0-0 oc bracing: B-C
10-0-0 oc bracing: B-E
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt B-E

REACTIONS. (size) C=0-5-8, D=Mechanical
Max Horz D=489(LC 13)
Max Uplift C=-654(LC 11), D=-635(LC 10)
Max Grav C=716(LC 12), D=657(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-237/405, B-C=-913/1920
BOT CHORD C-D=-666/1102
WEBS B-D=-2632/1530

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=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 654 lb uplift at joint C and 635 lb uplift at joint D.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

October 22,2021

Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: A=-130-to-B=-157

Job	Truss	Truss Type	Qty	Ply	Harmon - Chipotle - LS
211286	B06	ROOF SPECIAL	2	2	I48467951
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 21 09:06:52 2021 Page 1
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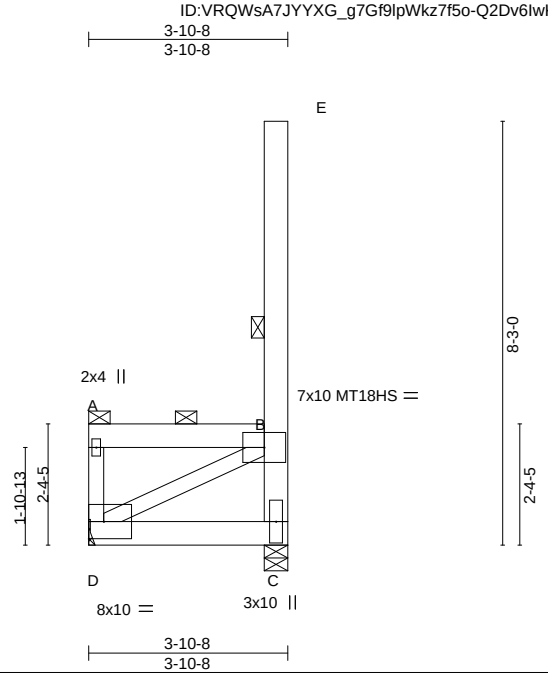

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.00	C-D	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	C-D	>999	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-MP							Weight: 85 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
C-E: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD 2-0-0 oc purlins: A-B, B-E, except end verticals. Except:
6-0-0 oc bracing: B-C
10-0-0 oc bracing: B-E
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt B-E

REACTIONS. (size) C=0-5-8, D=Mechanical
Max Horz D=489(LC 13)
Max Uplift C=-654(LC 11), D=-635(LC 10)
Max Grav C=716(LC 12), D=656(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-237/404, B-C=-908/1918
BOT CHORD C-D=-628/1038
WEBS B-D=-2569/1495

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=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 654 lb uplift at joint C and 635 lb uplift at joint D.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

October 22,2021

Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard
Trapezoidal Loads (plf)
Vert: A=-130-to-B=-157

Job	Truss	Truss Type	Qty	Ply	Harmon - Chipotle - LS
211286	B07	ROOF SPECIAL	2	2	I48467952
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 21 09:06:54 2021 Page 1
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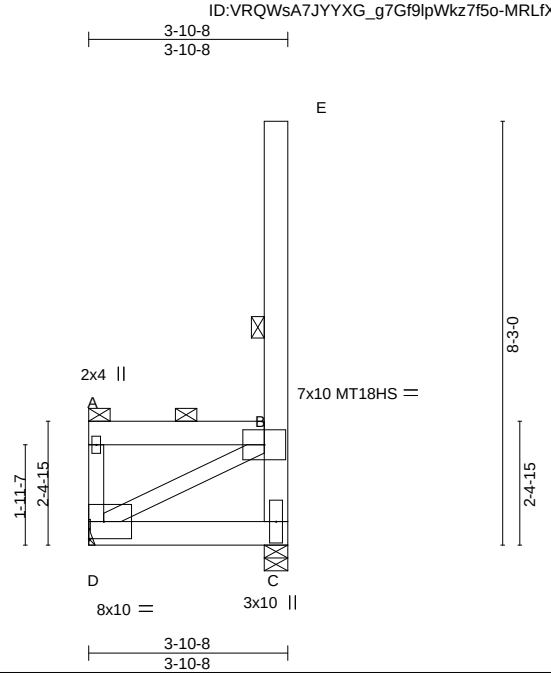

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.00	C-D	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	C-D	>999	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-MP							Weight: 85 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
C-E: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD 2-0-0 oc purlins: A-B, B-E, except end verticals. Except:
6-0-0 oc bracing: B-C
10-0-0 oc bracing: B-E
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt B-E

REACTIONS. (size) C=0-5-8, D=Mechanical
Max Horz D=-488(LC 10)
Max Uplift C=-658(LC 11), D=-640(LC 10)
Max Grav C=732(LC 12), D=674(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-261/428, B-C=-917/1930
BOT CHORD C-D=-601/976
WEBS B-D=-2507/1473

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=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 658 lb uplift at joint C and 640 lb uplift at joint D.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-157, C-D=-27

October 22,2021

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Harmon - Chipotle - LS
211286	B08	ROOF SPECIAL	2	2	I48467953
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 21 09:06:55 2021 Page 1
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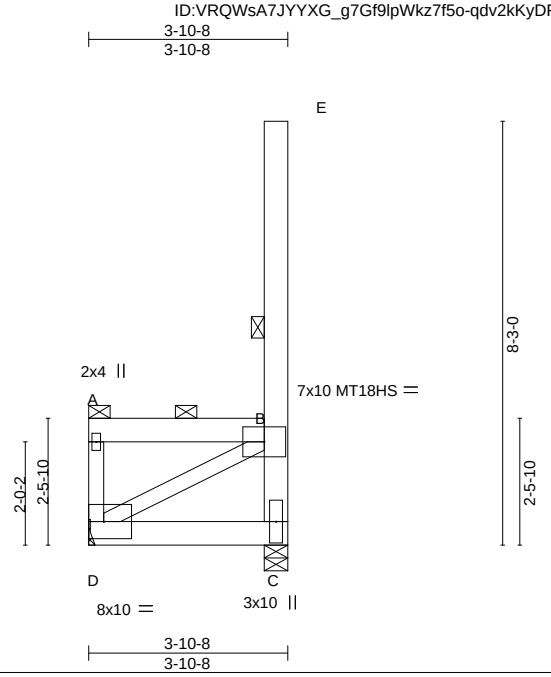

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.00	C-D	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	C-D	>999	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-MP							Weight: 85 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
C-E: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD 2-0-0 oc purlins: A-B, B-E, except end verticals. Except:
6-0-0 oc bracing: B-C
10-0-0 oc bracing: B-E
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt B-E

REACTIONS. (size) C=0-5-8, D=Mechanical
Max Horz D=-487(LC 12)
Max Uplift C=-658(LC 11), D=-639(LC 10)
Max Grav C=731(LC 12), D=673(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-261/428, B-C=-911/1927
BOT CHORD C-D=-566/920
WEBS B-D=-2452/1442

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=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 658 lb uplift at joint C and 639 lb uplift at joint D.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-157, C-D=-27

October 22,2021

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Harmon - Chipotle - LS
211286	B09	ROOF SPECIAL	2	2	I48467954
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 21 09:06:57 2021 Page 1
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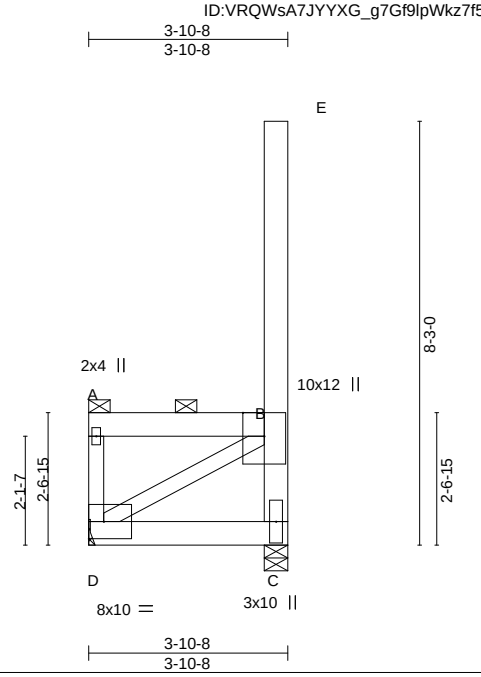

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.00	C-D	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	C-D	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-MP							Weight: 86 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
C-E: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD 2-0-0 oc purlins: A-B, B-E, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) C=0-5-8, D=Mechanical
Max Horz D=-485(LC 10)
Max Uplift C=-657(LC 11), D=-638(LC 10)
Max Grav C=730(LC 12), D=672(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-260/426, B-C=-899/1921
BOT CHORD C-D=-506/821
WEBS B-D=-2355/1389

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=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
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 657 lb uplift at joint C and 638 lb uplift at joint D.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-157, C-D=-27

October 22,2021

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Harmon - Chipotle - LS
211286	B10	ROOF SPECIAL	2	2	I48467955
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 21 09:06:58 2021 Page 1
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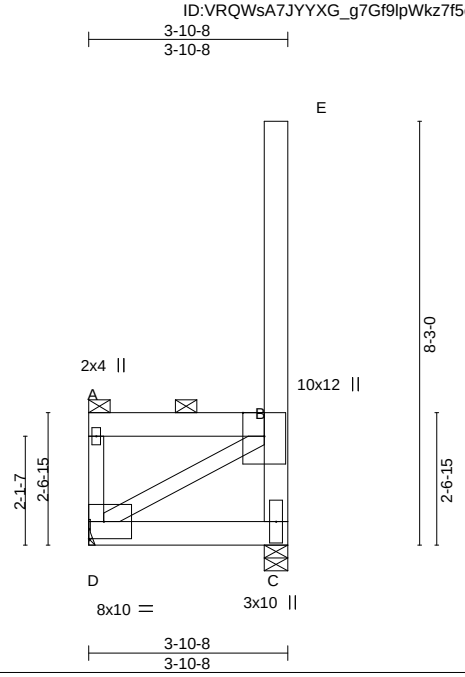


LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.00	C-D	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	C-D	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-MP							Weight: 86 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
C-E: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD 2-0-0 oc purlins: A-B, B-E, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) C=0-5-8, D=Mechanical
Max Horz D=-485(LC 10)
Max Uplift C=-657(LC 11), D=-638(LC 10)
Max Grav C=730(LC 12), D=672(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-260/426, B-C=-899/1921
BOT CHORD C-D=-506/821
WEBS B-D=-2355/1389

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=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
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 657 lb uplift at joint C and 638 lb uplift at joint D.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

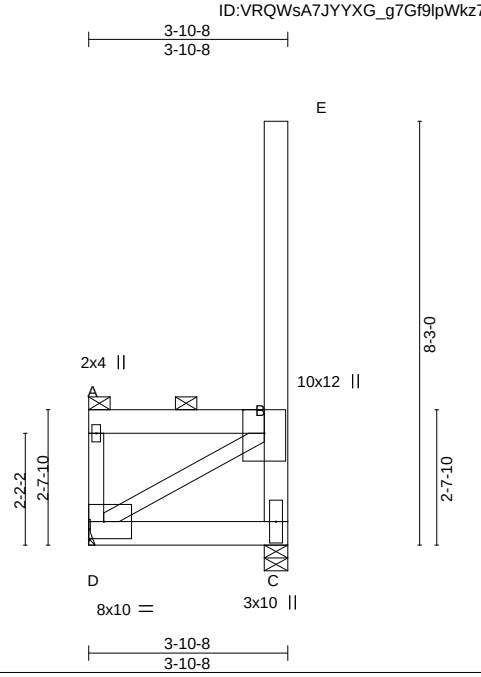
LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-157, C-D=-27

October 22,2021

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Harmon - Chipotle - LS
211286	B11	ROOF SPECIAL	2	2	I48467956
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 21 09:07:00 2021 Page 1
ID:VRQWsA7JYYXG_g7Gf9lpWkz7f5o-Bbixn20LGibtUz68NEW530eOEf9J6uLlx6xgiByREXv



LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.00	C-D	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	C-D	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-MP							Weight: 86 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
C-E: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD 2-0-0 oc purlins: A-B, B-E, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) C=0-5-8, D=Mechanical
Max Horz D=-484(LC 12)
Max Uplift C=-656(LC 11), D=-637(LC 10)
Max Grav C=730(LC 12), D=672(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-260/425, B-C=-893/1917
BOT CHORD C-D=-477/774
WEBS B-D=-2308/1364

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=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
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 656 lb uplift at joint C and 637 lb uplift at joint D.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

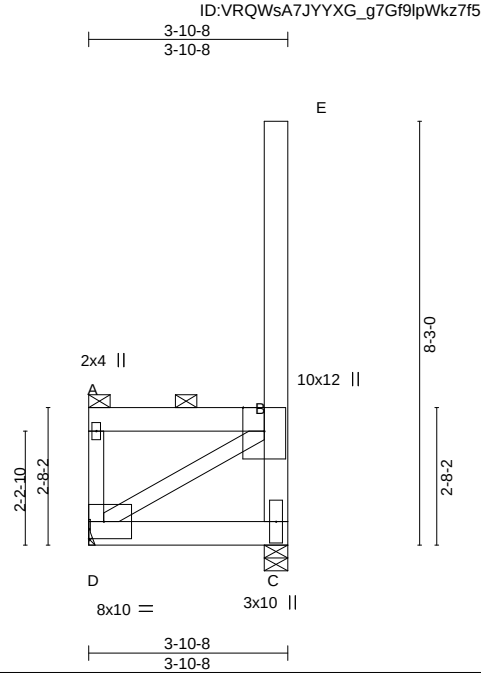
LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-157, C-D=-27

October 22,2021

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Harmon - Chipotle - LS
211286	B12	ROOF SPECIAL	2	2	I48467957
					Job Reference (optional)

Heartland Truss, Inc, Plattsburg, MO - 64477, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Oct 21 09:07:01 2021 Page 1
ID:VRQWsA7JYYXG_g7Gf9lpWkz7f5o-fnGJ?N1_1?jk67hLxx1KcEBa83UarLevAmgEEdyREXu



LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.00	C-D	>999	240	MT20	244/190
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	C-D	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-MP							Weight: 86 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
C-E: 2x6 SP 2400F 2.0E

BRACING-
TOP CHORD 2-0-0 oc purlins: A-B, B-E, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) C=0-5-8, D=Mechanical
Max Horz D=-483(LC 10)
Max Uplift C=-656(LC 11), D=-637(LC 10)
Max Grav C=729(LC 12), D=672(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-260/425, B-C=-889/1915
BOT CHORD C-D=-457/741
WEBS B-D=-2276/1347

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=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
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 656 lb uplift at joint C and 637 lb uplift at joint D.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

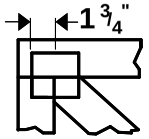
LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-157, C-D=-27

October 22,2021

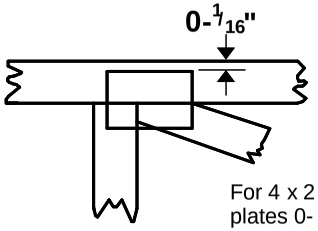
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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.

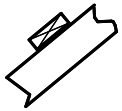
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

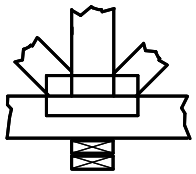
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

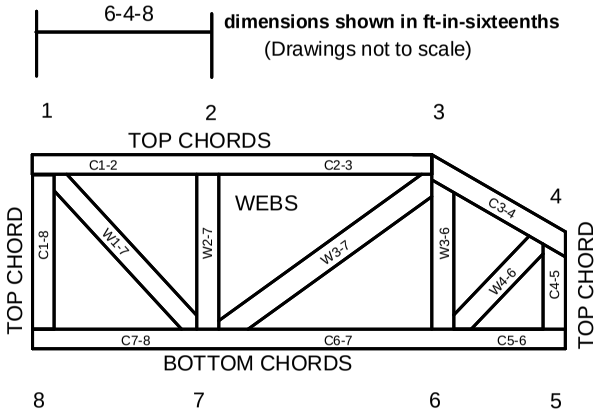


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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.