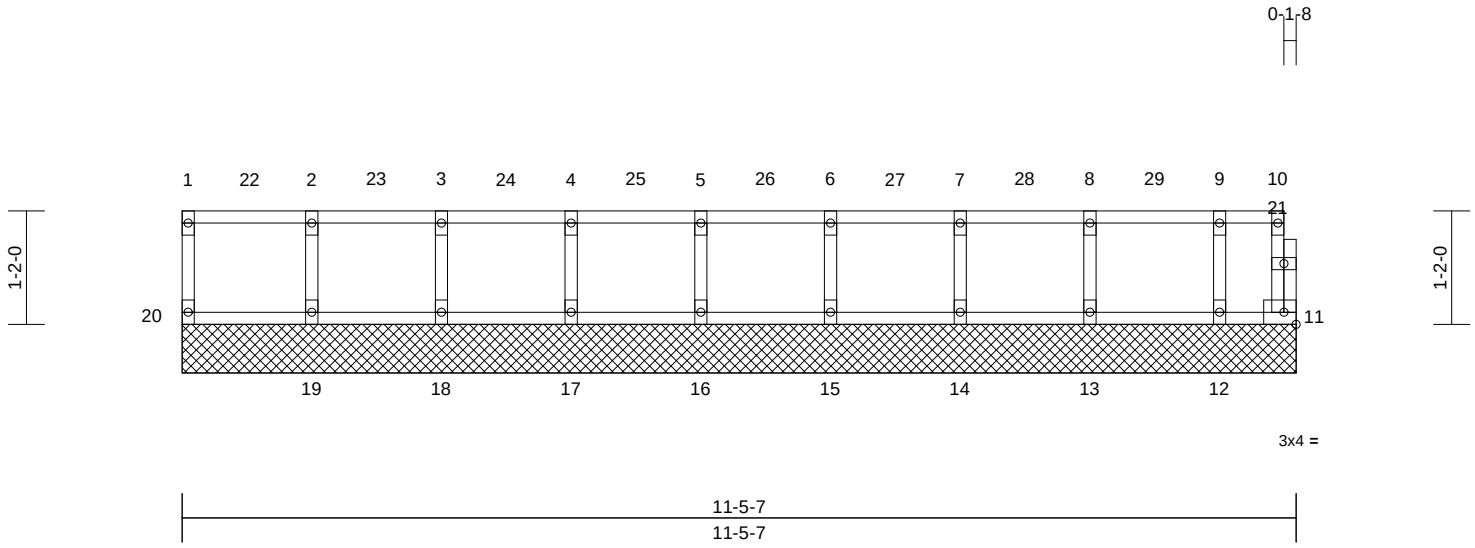
Job	Truss	Truss Type	Qty	Ply	
2794662	3F1	Floor Supported Gable	1	1	I50703105 Job Reference (optional)

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Mar 10 09:18:23 Page: 1
ID:jbLXwOmZU0esojAIjtcJmPzQp3e-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:23.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 49 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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 (lb/size) 11=24/11-5-7, 12=111/11-5-7, 13=153/11-5-7, 14=145/11-5-7, 15=147/11-5-7, 16=146/11-5-7, 17=147/11-5-7, 18=145/11-5-7, 19=153/11-5-7, 20=61/11-5-7
Max Uplift 11=-72 (LC 11), 12=-29 (LC 4), 13=-2 (LC 9), 14=-4 (LC 8), 15=-3 (LC 7), 16=-3 (LC 6), 17=-3 (LC 8), 18=-4 (LC 7), 19=-2 (LC 6), 20=-19 (LC 5)
Max Grav 11=327 (LC 13), 12=373 (LC 12), 13=388 (LC 20), 14=387 (LC 19), 15=387 (LC 18), 16=387 (LC 17), 17=387 (LC 16), 18=387 (LC 15), 19=389 (LC 14), 20=366 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-20=-360/24, 10-11=-340/84, 1-2=-31/6, 2-3=-31/6, 3-4=-31/6, 4-5=-31/6, 5-6=-31/6, 6-7=-31/6, 7-8=-31/6, 8-9=-31/6, 9-10=-31/6
BOT CHORD 19-20=-6/31, 18-19=-6/31, 17-18=-6/31, 16-17=-6/31, 15-16=-6/31, 14-15=-6/31, 13-14=-6/31, 12-13=-6/31, 11-12=-6/31
WEBS 2-19=-375/16, 3-18=-373/17, 4-17=-374/17, 5-16=-374/17, 6-15=-374/17, 7-14=-373/17, 8-13=-374/16, 9-12=-361/39

NOTES
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 20, 72 lb uplift at joint 11, 2 lb uplift at joint 19, 4 lb uplift at joint 18, 3 lb uplift at joint 17, 3 lb uplift at joint 16, 3 lb uplift at joint 15, 4 lb uplift at joint 14, 2 lb uplift at joint 13 and 29 lb uplift at joint 12.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

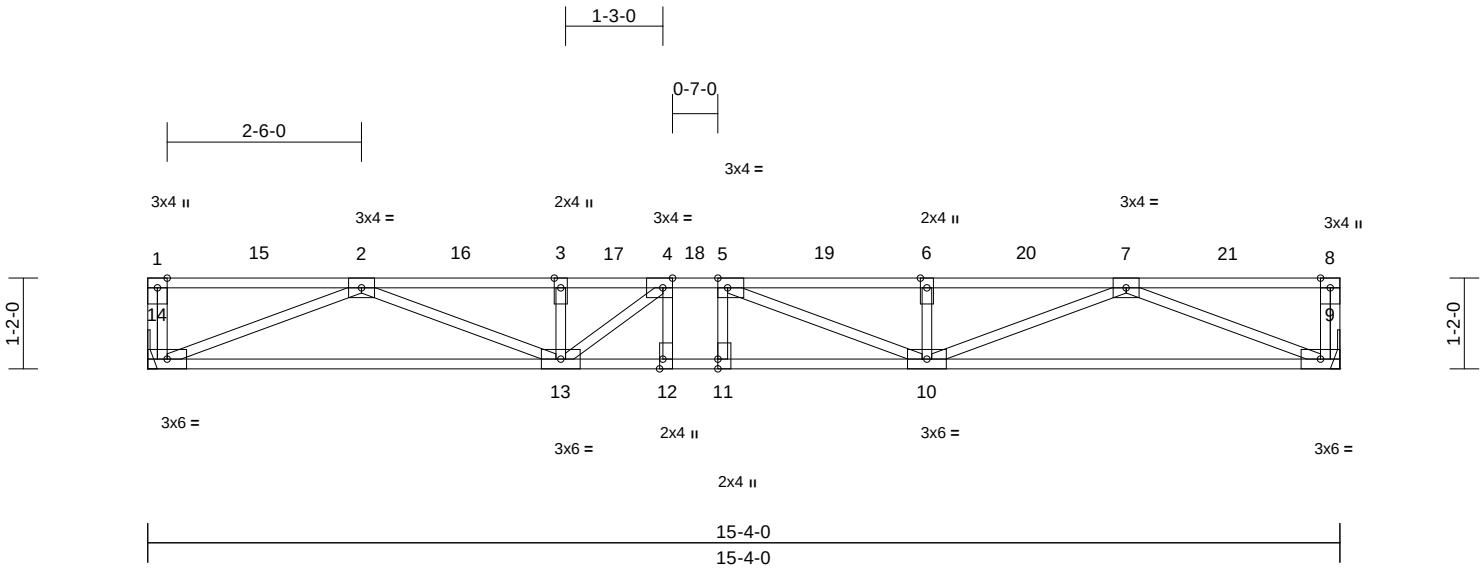
LOAD CASE(S) Standard

March 10,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
2794662	3F2	Floor	6	1	I50703106 Job Reference (optional)

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Mar 10 09:18:25 Page: 1
ID:4Y8Qz6qiJZG9uU2GWRCUTTzQp3Z-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:29.6

Plate Offsets (X, Y): [4:0-1-8,Edge], [5:0-1-8,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.13	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.18	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 79 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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 (lb/size) 9=553/ Mechanical, 14=553/ Mechanical

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-14=-364/7, 8-9=-364/9, 1-2=0/0, 2-3=-1831/0, 3-4=-1831/0, 4-5=-1991/0, 5-6=-1853/0, 6-7=-1853/0, 7-8=0/0
BOT CHORD 13-14=0/1179, 12-13=0/1991, 11-12=0/1991, 10-11=0/1991, 9-10=0/1175
WEBS 7-9=-1265/0, 2-14=-1268/0, 7-10=0/849, 2-13=0/826, 6-10=-393/17, 3-13=-392/45, 5-10=-488/334, 4-13=-452/284, 4-12=-131/207, 5-11=-178/106

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
4) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

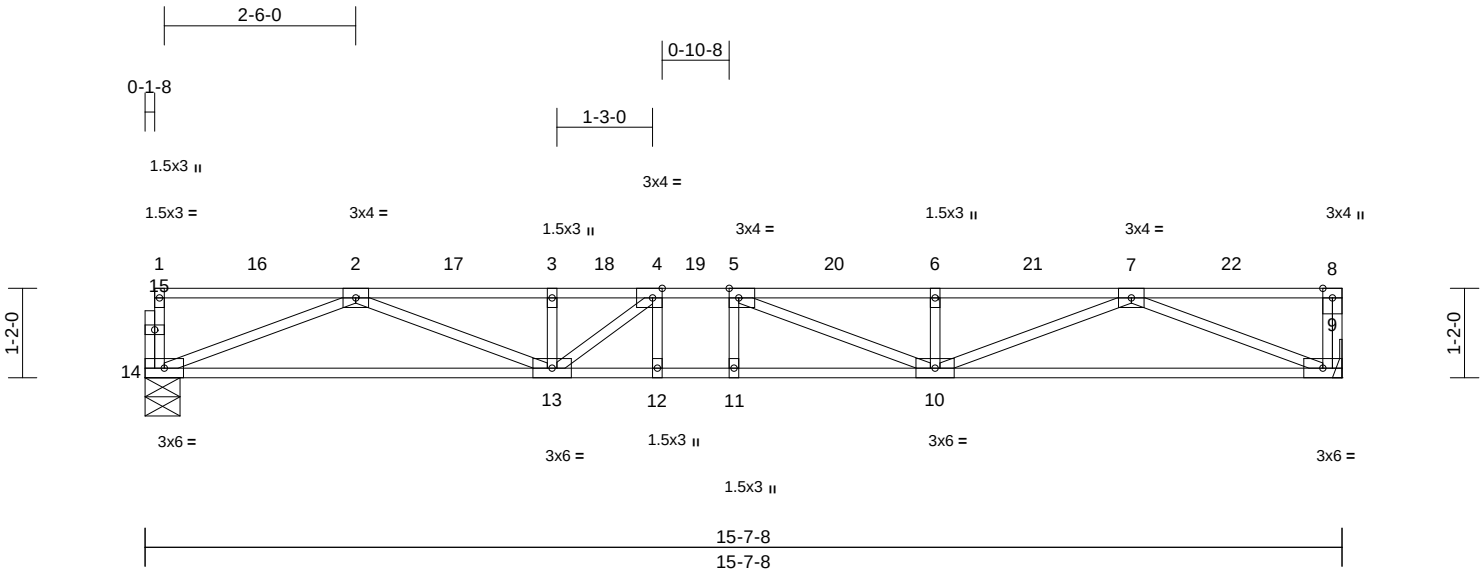
LOAD CASE(S) Standard

March 10,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
2794662	3F3	Floor	17	1	I50703107 Job Reference (optional)

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Mar 10 09:18:25 Page: 1
ID:UKEp8cphKV1RwaMHeddo8Lz12LD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:30.1

Plate Offsets (X, Y): [4:0-1-8,Edge], [5:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.80	Vert(LL)	-0.14	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.20	10-11	>935	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 79 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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 (lb/size) 9=564/ Mechanical, 14=560/0-5-8

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-14=-364/8, 8-9=-364/9, 1-2=-22/0, 2-3=-1883/0, 3-4=-1883/0, 4-5=-2064/0, 5-6=-1907/0, 6-7=-1907/0, 7-8=0/0
BOT CHORD 13-14=0/1204, 12-13=0/2064, 11-12=0/2064, 10-11=0/2064, 9-10=0/1202
WEBS 7-9=-1293/0, 2-14=-1291/0, 7-10=0/871, 2-13=0/843, 6-10=-399/15, 3-13=-401/40, 5-10=-510/340, 4-13=-476/290, 4-12=-121/187, 5-11=-152/97

LOAD CASE(S) Standard

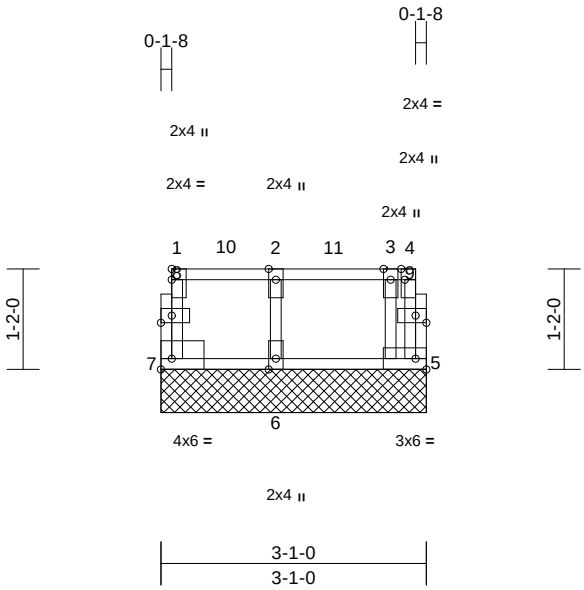
NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
4) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

March 10,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
2794662	3F4	Floor Supported Gable	1	1	I50703108 Job Reference (optional)

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Mar 10 09:18:26 Page: 1
ID:MZvDoFeIzQfH7clC99dhedyTuV4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:26.7

Plate Offsets (X, Y): [4:0-1-8,Edge], [7:Edge,0-1-8], [8:0-1-8,0-1-0], [9:0-1-8,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.40	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 16 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=89/3-1-0, 6=148/3-1-0, 7=61/3-1-0
Max Grav 5=349 (LC 6), 6=386 (LC 10), 7=357 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-7=-357/13, 4-5=-99/118, 1-2=-39/0, 2-3=-39/0, 3-4=-19/12
BOT CHORD 6-7=0/39, 5-6=0/39
WEBS 2-6=-372/0, 3-5=-306/0

NOTES
1) Gable requires continuous bottom chord bearing.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
5) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

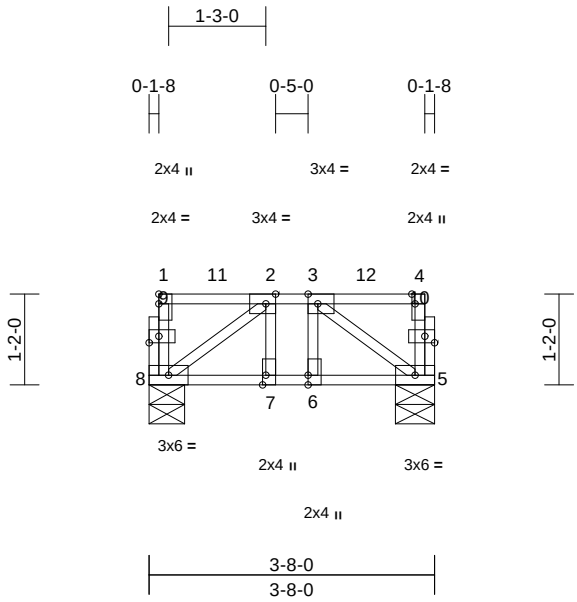
LOAD CASE(S) Standard

March 10,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
2794662	3F5	Floor	1	1	I50703109 Job Reference (optional)

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Mar 10 09:18:26 Page: 1
ID:MZvDoFeIzQfH7clC99dhedyTuV4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:29.6

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.49	Vert(LL)	-0.01	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.18	Vert(CT)	-0.01	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 23 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=121/0-6-0, 8=121/0-5-8
Max Grav 5=377 (LC 11), 8=377 (LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-8=-359/7, 4-5=-359/7, 1-2=-21/0, 2-3=-268/0, 3-4=-21/0
BOT CHORD 7-8=0/268, 6-7=0/268, 5-6=0/268
WEBS 3-5=-331/0, 2-8=-331/0, 2-7=-117/129, 3-6=-117/129

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
3) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

March 10,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
2794662	3F6	Floor	1	1	I50703110 Job Reference (optional)

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Mar 10 09:18:26 Page: 1
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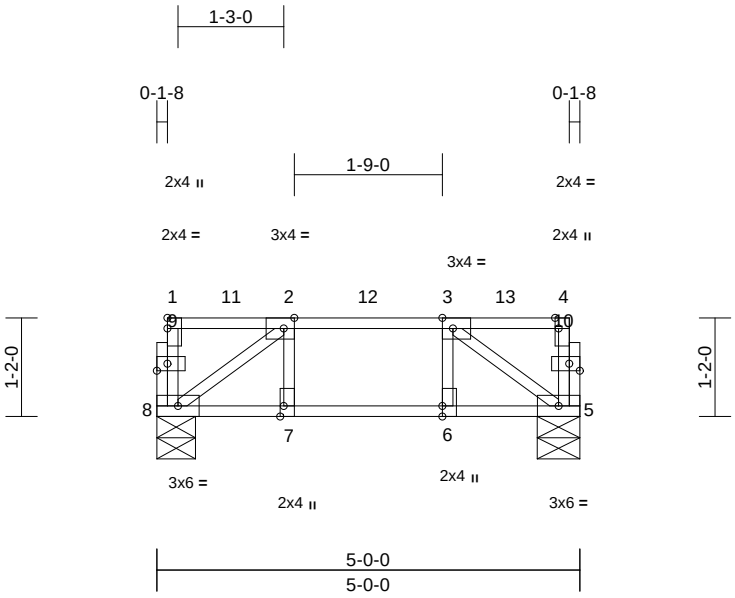

Scale = 1:27.2

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.57	Vert(LL)	-0.02	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.31	Vert(CT)	-0.03	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 27 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS (lb/size) 5=170/0-6-0, 8=170/0-5-8
Max Grav 5=392 (LC 11), 8=392 (LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-8=-359/32, 4-5=-359/32, 1-2=-21/2, 2-3=-342/0, 3-4=-21/2
BOT CHORD 7-8=0/342, 6-7=0/342, 5-6=0/342
WEBS 2-8=-424/0, 3-5=-424/0, 2-7=-75/97, 3-6=-75/97

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
3) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

March 10,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
2794662	3F7	Floor Supported Gable	1	1	I50703111 Job Reference (optional)

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Mar 10 09:18:27 Page: 1
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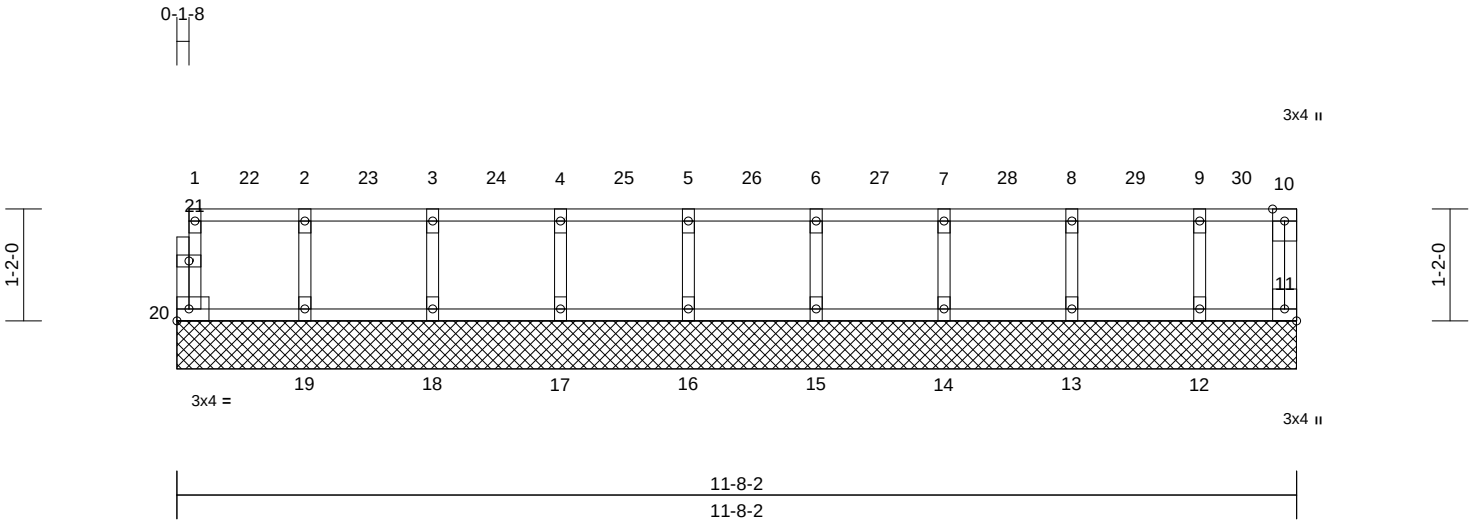


Scale = 1:24

Plate Offsets (X, Y): [11:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 51 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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 (lb/size) 11=44/11-8-2, 12=123/11-8-2, 13=152/11-8-2, 14=145/11-8-2, 15=147/11-8-2, 16=147/11-8-2, 17=147/11-8-2, 18=147/11-8-2, 19=146/11-8-2, 20=54/11-8-2
Max Uplift 11=-45 (LC 11), 12=-17 (LC 10), 13=-2 (LC 9), 14=-4 (LC 8), 15=-3 (LC 7), 16=-3 (LC 9), 17=-3 (LC 8), 18=-3 (LC 7), 19=-5 (LC 6), 20=-24 (LC 5)
Max Grav 11=361 (LC 13), 12=378 (LC 23), 13=388 (LC 22), 14=387 (LC 21), 15=387 (LC 20), 16=387 (LC 19), 17=387 (LC 18), 18=387 (LC 17), 19=387 (LC 16), 20=354 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-20=-355/32, 10-11=-356/54, 1-2=-31/6, 2-3=-31/6, 3-4=-31/6, 4-5=-31/6, 5-6=-31/6, 6-7=-31/6, 7-8=-31/6, 8-9=-31/6, 9-10=-31/6
BOT CHORD 19-20=-6/31, 18-19=-6/31, 17-18=-6/31, 16-17=-6/31, 15-16=-6/31, 14-15=-6/31, 13-14=-6/31, 12-13=-6/31, 11-12=-6/31
WEBS 2-19=-373/19, 3-18=-374/17, 4-17=-374/17, 5-16=-374/17, 6-15=-374/17, 7-14=-373/17, 8-13=-374/16, 9-12=-367/30

NOTES
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 20, 45 lb uplift at joint 11, 5 lb uplift at joint 19, 3 lb uplift at joint 18, 3 lb uplift at joint 17, 3 lb uplift at joint 16, 3 lb uplift at joint 15, 4 lb uplift at joint 14, 2 lb uplift at joint 13 and 17 lb uplift at joint 12.
5) N/A
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

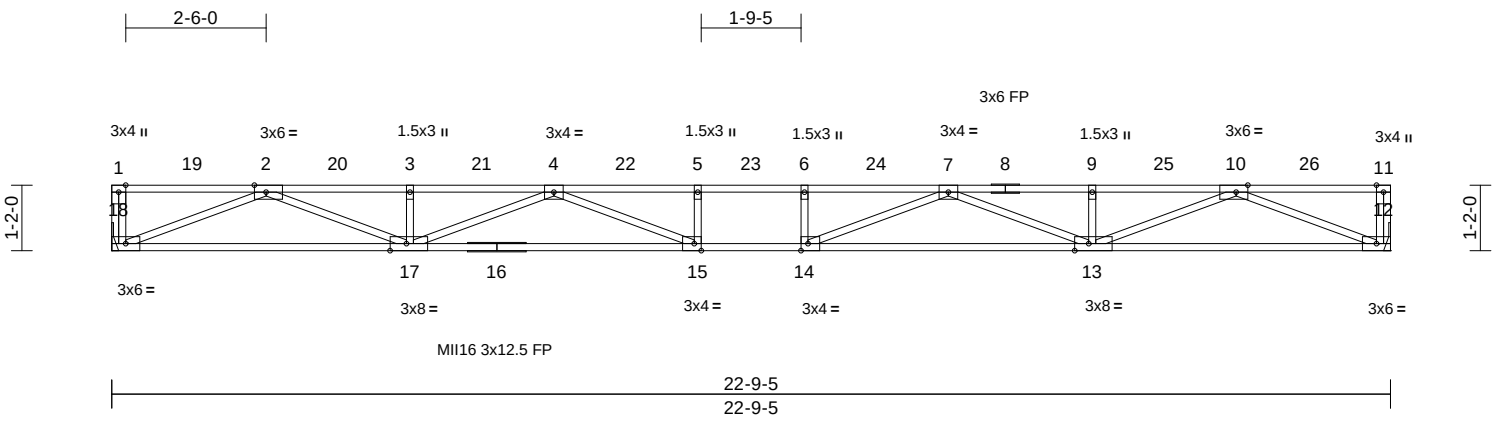
LOAD CASE(S) Standard

March 10,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
2794662	3F8	Floor	16	1	I50703112 Job Reference (optional)

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Mar 10 09:18:27 Page: 1
ID:gn2Z2WPp?JJLesjUKW3lPbzQp2p-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:41

Plate Offsets (X, Y): [2:0-2-8,Edge], [10:0-2-8,Edge], [13:0-3-0,Edge], [14:0-1-8,Edge], [15:0-1-8,Edge], [17:0-3-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.49	14-15	>551	480	MII16	174/126
TCDL	10.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.67	14-15	>402	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.10	12	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 110 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP DSS(flat) *Except* 8-11:2x4 SP No.1 (flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 12=826/ Mechanical, 18=826/ Mechanical

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-18=-365/9, 11-12=-364/9, 1-2=0/0, 2-3=-3200/0, 3-4=-3200/0, 4-5=-4445/0, 5-6=-4445/0, 6-7=-4445/0, 7-9=-3199/0, 9-10=-3199/0, 10-11=0/0
BOT CHORD 17-18=0/1861, 15-17=0/4038, 14-15=0/4445, 13-14=0/4039, 12-13=0/1862
WEBS 10-12=-2003/0, 2-18=-2002/0, 10-13=0/1443, 2-17=0/1445, 9-13=-370/26, 3-17=-370/27, 7-13=-907/28, 4-17=-905/25, 7-14=-341/745, 4-15=-315/746, 6-14=-225/113, 5-15=-226/104

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
5) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
6) Required 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

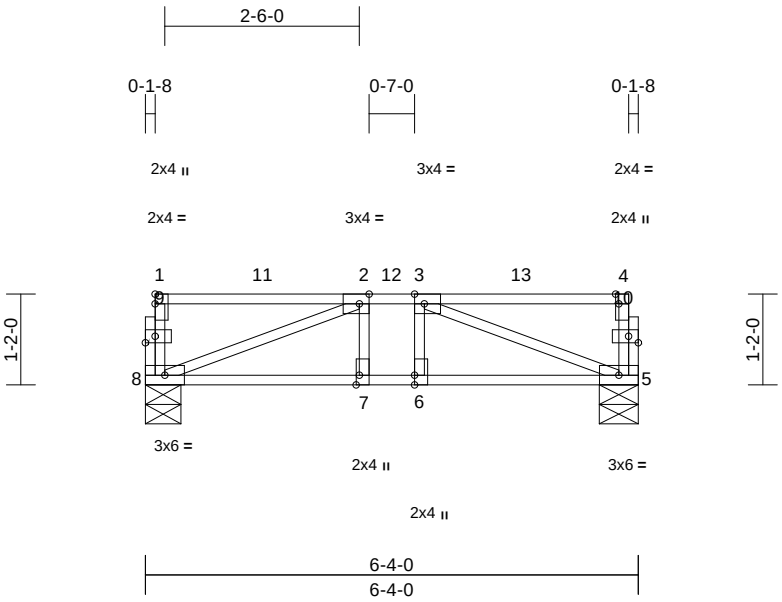
LOAD CASE(S) Standard

March 10,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
2794662	3F9	Floor	1	1	I50703113 Job Reference (optional)

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Mar 10 09:18:27 Page: 1
ID:MZvDoFeIzQfH7clC99dhedyTuV4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:29.6

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.03	5-6	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.35	Vert(CT)	-0.05	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	5	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 34 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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 (lb/size) 5=219/0-6-0, 8=219/0-5-8
Max Grav 5=406 (LC 11), 8=406 (LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-8=-365/0, 4-5=-365/0, 1-2=-22/0, 2-3=-552/0, 3-4=-22/0
BOT CHORD 7-8=0/552, 6-7=0/552, 5-6=0/552
WEBS 3-5=-591/0, 2-8=-591/0, 2-7=-140/164, 3-6=-140/164

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
3) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

STATE OF NEW JERSEY JUAN GARCIA No. GE44120 LICENSED PROFESSIONAL ENGINEER

March 10,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
2794662	3F10	Floor	1	1	I50703114 Job Reference (optional)

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Mar 10 09:18:27 Page: 1
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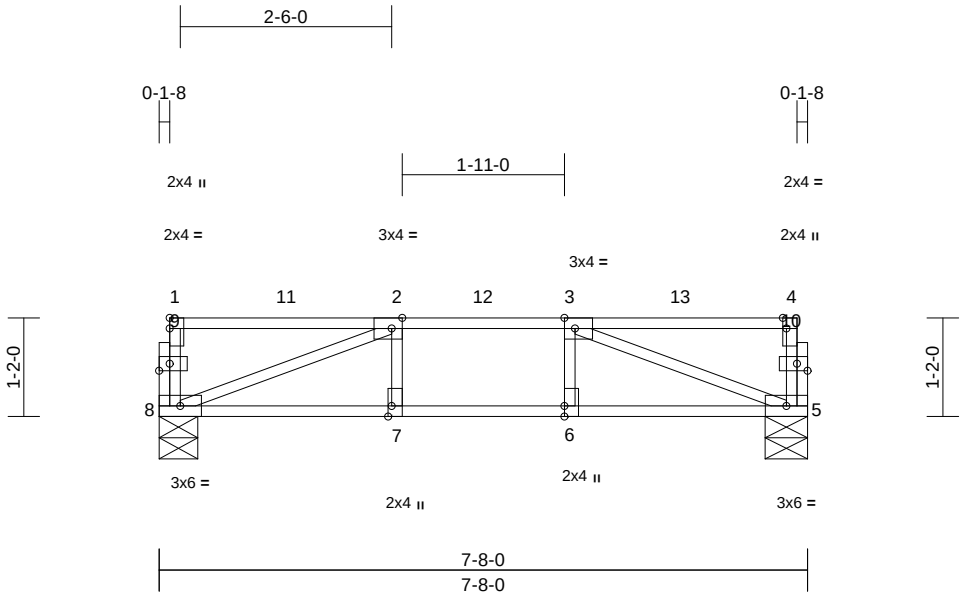

Scale = 1:27.2

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.06	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.09	7-8	>966	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	5	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 38 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP DSS(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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 (lb/size) 5=268/0-6-0, 8=268/0-5-8
Max Grav 5=420 (LC 11), 8=420 (LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-8=-366/13, 4-5=-366/13, 1-2=-22/1, 2-3=-624/0, 3-4=-22/1
BOT CHORD 7-8=0/624, 6-7=0/624, 5-6=0/624
WEBS 3-5=-669/0, 2-8=-669/0, 2-7=-57/90, 3-6=-57/90

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
3) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

March 10,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
2794662	3F11	Floor	1	1	I50703115 Job Reference (optional)

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Mar 10 09:18:28 Page: 1
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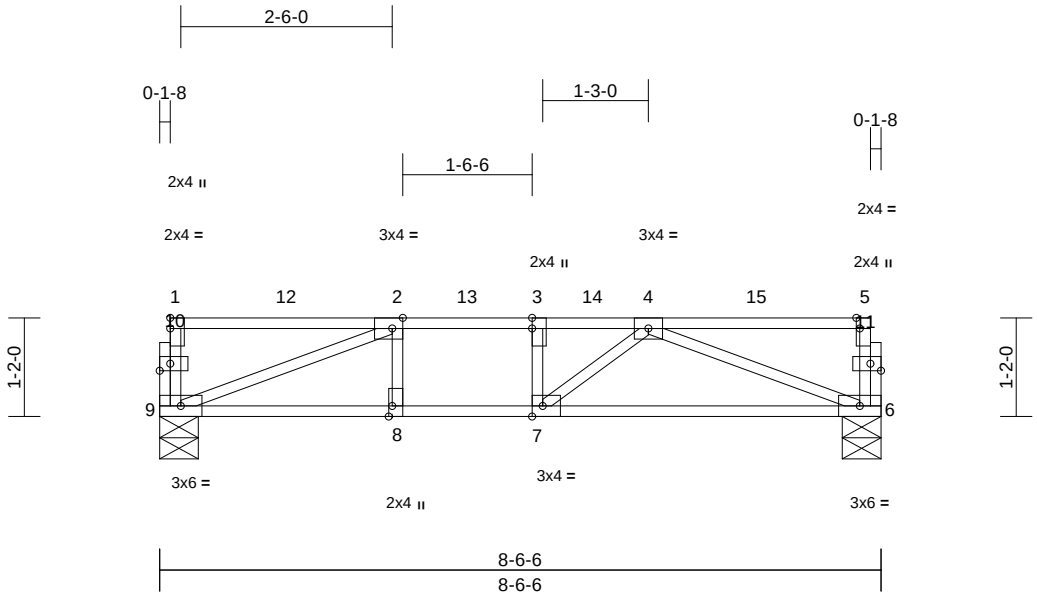

Scale = 1:27.2

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [5:0-1-8,Edge], [7:0-1-8,Edge], [8:0-1-8,Edge], [10:0-1-8,0-1-0], [11:0-1-8,0-1-0]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.08	6-7	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.46	Vert(CT)	-0.14	6-7	>716	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 43 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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 (lb/size) 6=299/0-5-8, 9=299/0-5-8
Max Grav 6=429 (LC 12), 9=429 (LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-9=-364/14, 5-6=-364/0, 1-2=-22/1, 2-3=-736/0, 3-4=-736/0, 4-5=-22/0
BOT CHORD 8-9=0/736, 7-8=0/736, 6-7=0/730
WEBS 4-6=-785/0, 2-9=-790/0, 4-7=-274/316, 2-8=-54/96, 3-7=-182/173

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
3) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

March 10,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
2794662	3F12	Floor	2	1	I50703116 Job Reference (optional)

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Mar 10 09:18:28 Page: 1
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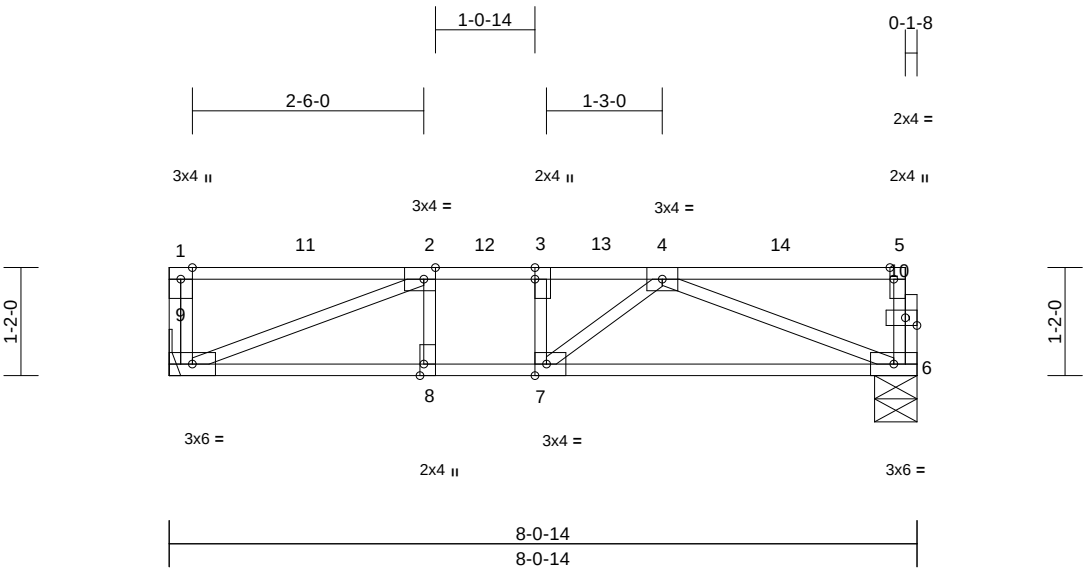

Scale = 1:24.9

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [5:0-1-8,Edge], [7:0-1-8,Edge], [8:0-1-8,Edge], [10:0-1-8,0-1-0]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.80	Vert(LL)	-0.06	6-7	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.38	Vert(CT)	-0.10	6-7	>917	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 42 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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 (lb/size) 6=283/0-5-8, 9=287/ Mechanical
Max Grav 6=425 (LC 12), 9=428 (LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-9=-364/6, 5-6=-364/0, 1-2=0/0, 2-3=-705/0, 3-4=-705/0, 4-5=-22/0
BOT CHORD 8-9=0/705, 7-8=0/705, 6-7=0/706
WEBS 4-6=-759/0, 2-9=-756/0, 4-7=-275/298, 2-8=-74/94, 3-7=-164/178

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
4) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

March 10,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
2794662	3F13	Floor Supported Gable	1	1	I50703117 Job Reference (optional)

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Mar 10 09:18:28 Page: 1
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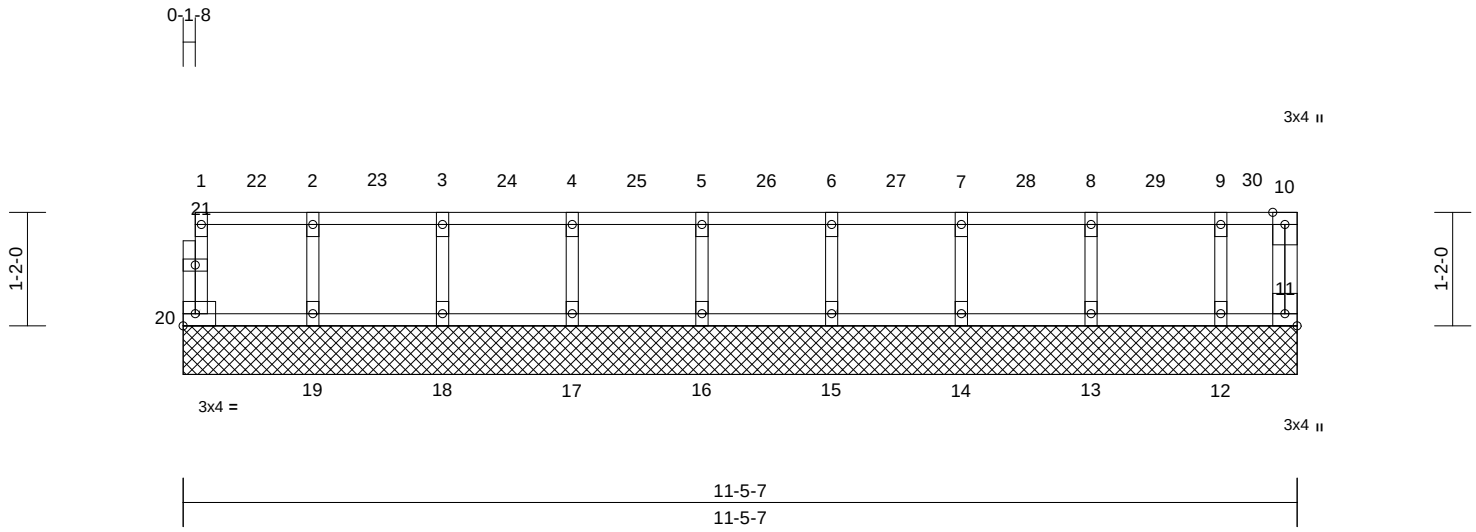

Scale = 1:23.7

Plate Offsets (X, Y): [11:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 50 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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 (lb/size) 11=30/11-5-7, 12=111/11-5-7, 13=153/11-5-7, 14=145/11-5-7, 15=147/11-5-7, 16=147/11-5-7, 17=147/11-5-7, 18=147/11-5-7, 19=147/11-5-7, 20=53/11-5-7
Max Uplift 11=-73 (LC 11), 12=-33 (LC 4), 13=-3 (LC 9), 14=-4 (LC 8), 15=-3 (LC 7), 16=-3 (LC 9), 17=-3 (LC 8), 18=-4 (LC 7), 19=-5 (LC 6), 20=-25 (LC 5)
Max Grav 11=356 (LC 13), 12=372 (LC 23), 13=388 (LC 22), 14=387 (LC 21), 15=387 (LC 20), 16=387 (LC 19), 17=387 (LC 18), 18=387 (LC 17), 19=387 (LC 16), 20=355 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-20=-356/33, 10-11=-352/82, 1-2=-33/7, 2-3=-33/7, 3-4=-33/7, 4-5=-33/7, 5-6=-33/7, 6-7=-33/7, 7-8=-33/7, 8-9=-33/7, 9-10=-33/7
BOT CHORD 19-20=-7/33, 18-19=-7/33, 17-18=-7/33, 16-17=-7/33, 15-16=-7/33, 14-15=-7/33, 13-14=-7/33, 12-13=-7/33, 11-12=-7/33
WEBS 2-19=-373/19, 3-18=-374/17, 4-17=-374/17, 5-16=-374/17, 6-15=-374/17, 7-14=-373/17, 8-13=-374/16, 9-12=-361/39

NOTES
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 20, 73 lb uplift at joint 11, 5 lb uplift at joint 19, 4 lb uplift at joint 18, 3 lb uplift at joint 17, 3 lb uplift at joint 16, 3 lb uplift at joint 15, 4 lb uplift at joint 14, 3 lb uplift at joint 13 and 33 lb uplift at joint 12.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
9) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

March 10,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
2794662	3F14	Floor	6	1	I50703118 Job Reference (optional)

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Mar 10 09:18:28 Page: 1
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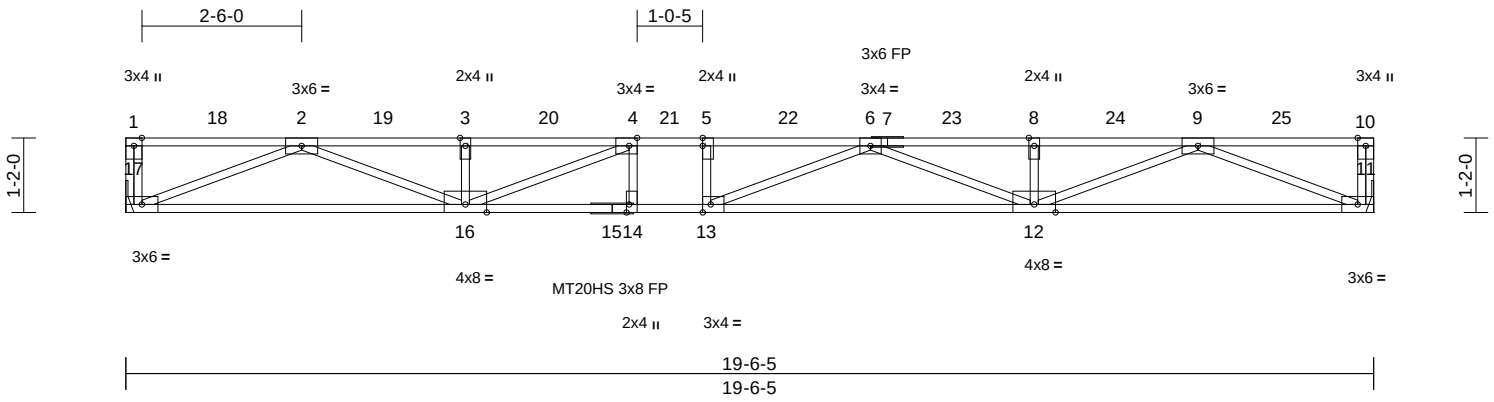

Scale = 1:36.1

Plate Offsets (X, Y): [4:0-1-8,Edge], [5:0-1-8,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.91	Vert(LL)	-0.33	12-13	>711	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.46	12-13	>501	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.07	11	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 97 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 15-11:2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 11=707/ Mechanical, 17=707/ Mechanical

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-17=-364/9, 10-11=-364/10, 1-2=0/0, 2-3=-2599/0, 3-4=-2599/0, 4-5=-3216/0, 5-6=-3216/0, 6-8=-2609/0, 8-9=-2609/0, 9-10=0/0
BOT CHORD 16-17=0/1560, 14-16=0/3216, 13-14=0/3216, 12-13=0/3161, 11-12=0/1566
WEBS 9-11=-1685/0, 2-17=-1679/0, 9-12=0/1126, 2-16=0/1121, 8-12=-370/28, 3-16=-392/23, 6-12=-712/137, 4-16=-817/150, 6-13=-437/477, 4-14=-107/153, 5-13=-202/136

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
5) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

March 10,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
2794662	3F15	Floor	13	1	I50703119 Job Reference (optional)

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Mar 10 09:18:28 Page: 1
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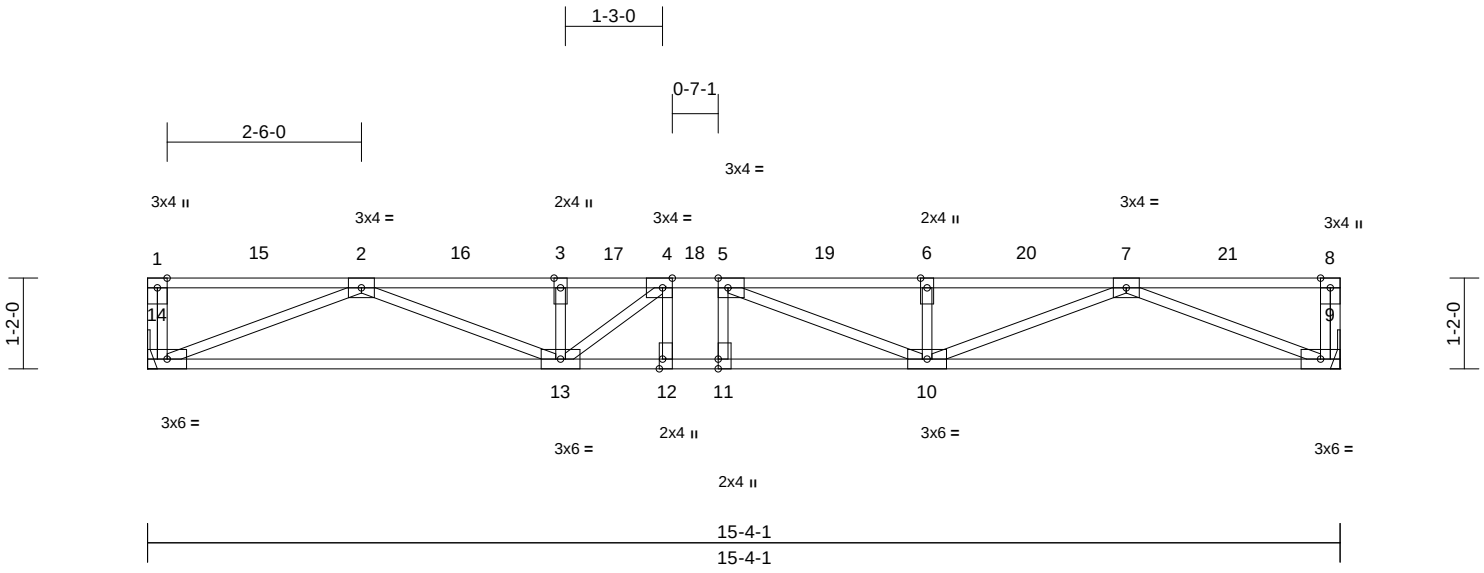


Scale = 1:29.6

Plate Offsets (X, Y): [4:0-1-8,Edge], [5:0-1-8,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.13	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.18	10-11	>998	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 79 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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 (lb/size) 9=553/ Mechanical, 14=553/ Mechanical

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-14=-364/7, 8-9=-364/9, 1-2=0/0, 2-3=-1832/0, 3-4=-1832/0, 4-5=-1993/0, 5-6=-1854/0, 6-7=-1854/0, 7-8=0/0
BOT CHORD 13-14=0/1179, 12-13=0/1993, 11-12=0/1993, 10-11=0/1993, 9-10=0/1176
WEBS 7-9=-1265/0, 2-14=-1269/0, 7-10=0/849, 2-13=0/827, 6-10=-393/17, 3-13=-393/45, 5-10=-489/334, 4-13=-452/284, 4-12=-131/206, 5-11=-177/106

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
4) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

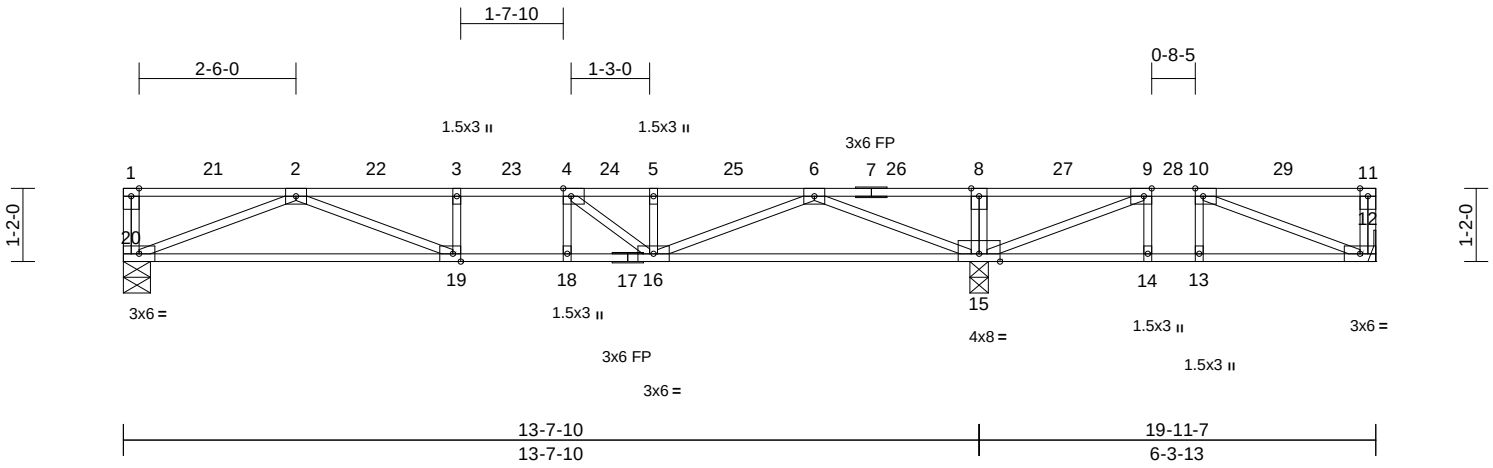
LOAD CASE(S) Standard

March 10,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
2794662	3F18	Floor	2	1	I50703120 Job Reference (optional)

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Mar 10 09:18:29 Page: 1
ID:4VW?ufmZdUwsK8W7lFp11kyTuUw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:36.7

Plate Offsets (X, Y): [4:0-1-8,Edge], [9:0-1-8,Edge], [10:0-1-8,Edge], [19:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.80	Vert(LL)	-0.11	19-20	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.22	19-20	>751	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.02	15	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 100 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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 (lb/size) 12=106/ Mechanical, 15=899/0-3-8, 20=440/0-5-3
Max Uplift 12=-82 (LC 19)
Max Grav 12=382 (LC 25), 15=899 (LC 1), 20=471 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-20=-363/16, 11-12=-368/0, 1-2=0/0, 2-3=-1316/0, 3-4=-1316/0, 4-5=-1158/0, 5-6=-1158/0, 6-8=-32/835, 8-9=-32/835, 9-10=-494/326, 10-11=0/0
BOT CHORD 19-20=0/932, 18-19=0/1316, 16-18=0/1316, 15-16=-107/528, 14-15=-326/494, 13-14=-326/494, 12-13=-326/494
WEBS 8-15=-383/11, 6-15=-1219/0, 2-20=-1003/0, 6-16=0/918, 2-19=-109/610, 5-16=-411/58, 3-19=-250/66, 4-16=-471/262, 4-18=-101/116, 9-15=-751/0, 10-12=-530/350, 9-14=-79/147, 10-13=-124/94

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 12.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

March 10,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
2794662	3F19	Floor Supported Gable	1	1	I50703121 Job Reference (optional)

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Mar 10 09:18:29 Page: 1
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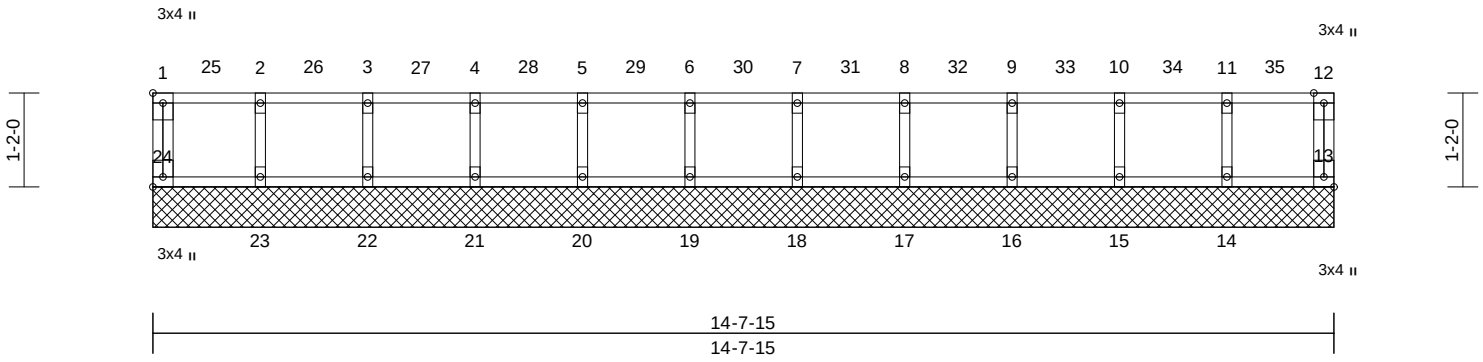

Scale = 1:28.6

Plate Offsets (X, Y): [1:Edge,0-1-8], [13:Edge,0-1-8], [24:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	13	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 63 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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 (lb/size) 13=62/14-7-15, 14=142/14-7-15, 15=148/14-7-15, 16=146/14-7-15, 17=147/14-7-15, 18=147/14-7-15, 19=147/14-7-15, 20=147/14-7-15, 21=146/14-7-15, 22=148/14-7-15, 23=143/14-7-15, 24=63/14-7-15
Max Uplift 13=-21 (LC 13), 14=-6 (LC 12), 15=-3 (LC 11), 16=-3 (LC 10), 17=-3 (LC 9), 18=-3 (LC 8), 19=-3 (LC 10), 20=-3 (LC 9), 21=-3 (LC 8), 22=-3 (LC 7), 23=-6 (LC 6), 24=-21 (LC 5)
Max Grav 13=366 (LC 15), 14=386 (LC 25), 15=387 (LC 24), 16=387 (LC 23), 17=387 (LC 22), 18=387 (LC 21), 19=387 (LC 20), 20=387 (LC 19), 21=387 (LC 18), 22=387 (LC 17), 23=386 (LC 16), 24=366 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-24=-361/30, 12-13=-361/31, 1-2=-30/5, 2-3=-30/5, 3-4=-30/5, 4-5=-30/5, 5-6=-30/5, 6-7=-30/5, 7-8=-30/5, 8-9=-30/5, 9-10=-30/5, 10-11=-30/5, 11-12=-30/5
BOT CHORD 23-24=-5/30, 22-23=-5/30, 21-22=-5/30, 20-21=-5/30, 19-20=-5/30, 18-19=-5/30, 17-18=-5/30, 16-17=-5/30, 15-16=-5/30, 14-15=-5/30, 13-14=-5/30
WEBS 2-23=-372/20, 3-22=-374/17, 4-21=-374/17, 5-20=-374/17, 6-19=-374/17, 7-18=-374/17, 8-17=-374/17, 9-16=-374/17, 10-15=-374/17, 11-14=-372/20

NOTES
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 24, 21 lb uplift at joint 13, 6 lb uplift at joint 23, 3 lb uplift at joint 22, 3 lb uplift at joint 21, 3 lb uplift at joint 20, 3 lb uplift at joint 19, 3 lb uplift at joint 18, 3 lb uplift at joint 17, 3 lb uplift at joint 16, 3 lb uplift at joint 15 and 6 lb uplift at joint 14.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
8) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

March 10,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
2794662	3F20	Floor	7	1	I50703122 Job Reference (optional)

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Mar 10 09:18:29 Page: 1
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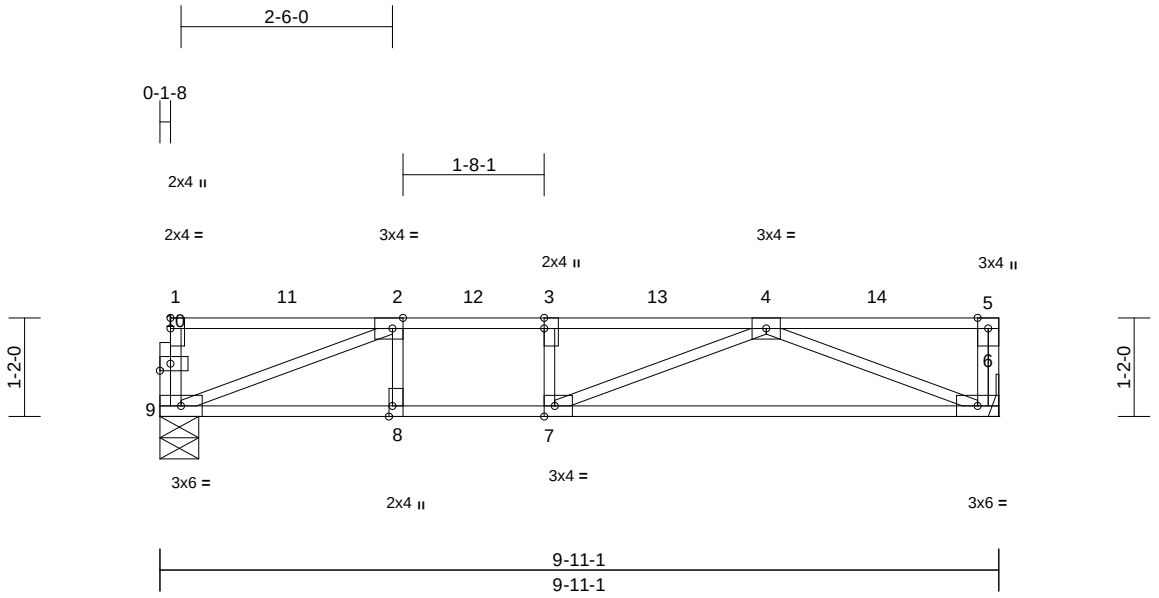

Scale = 1:27.2

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [7:0-1-8,Edge], [8:0-1-8,Edge], [10:0-1-8,0-1-0]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	-0.16	6-7	>717	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.30	6-7	>386	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 49 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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 (lb/size) 6=355/ Mechanical, 9=350/0-5-8
Max Grav 6=447 (LC 12), 9=444 (LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-9=-359/28, 5-6=-362/21, 1-2=-22/2, 2-3=-864/0, 3-4=-864/0, 4-5=0/0
BOT CHORD 8-9=0/864, 7-8=0/864, 6-7=0/809
WEBS 4-6=-870/0, 2-9=-929/0, 4-7=-284/400, 2-8=-44/130, 3-7=-178/94

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
4) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

March 10,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
2794662	3F21	Floor	1	1	I50703123 Job Reference (optional)

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Mar 10 09:18:29 Page: 1
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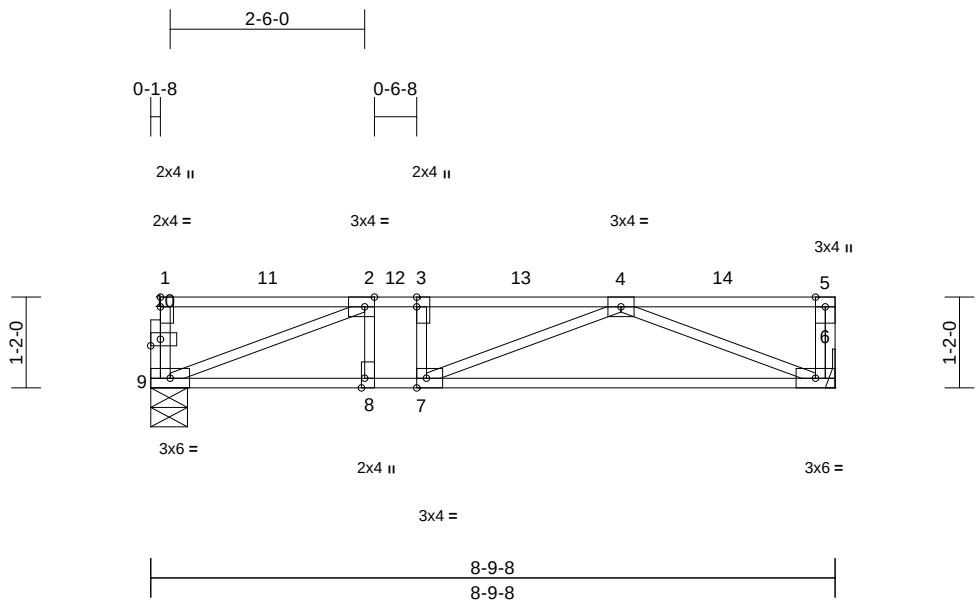

Scale = 1:29.6

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [7:0-1-8,Edge], [8:0-1-8,Edge], [10:0-1-8,0-1-0]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	1.00	Vert(LL)	-0.08	6-7	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.17	6-7	>616	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 46 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS (lb/size) 6=313/ Mechanical, 9=309/0-5-11
Max Grav 6=435 (LC 12), 9=432 (LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-9=-362/8, 5-6=-363/14, 1-2=-22/0, 2-3=-790/0, 3-4=-790/0, 4-5=0/0
BOT CHORD 8-9=0/790, 7-8=0/790, 6-7=0/751
WEBS 4-6=-808/0, 2-9=-847/0, 4-7=-284/354, 2-8=-130/170, 3-7=-182/123

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
4) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

March 10,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
2794662	3F22	Floor	1	1	I50703124 Job Reference (optional)

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Mar 10 09:18:30 Page: 1
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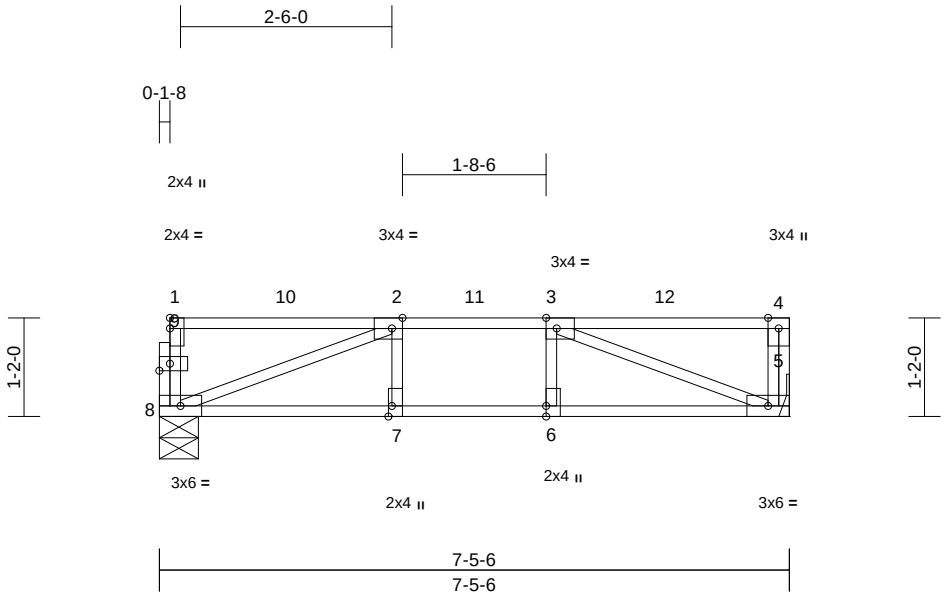


Scale = 1:27.2

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [6:0-1-8,Edge], [7:0-1-8,Edge], [9:0-1-8,0-1-0]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.05	5-6	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.40	Vert(CT)	-0.08	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	5	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 38 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP DSS(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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 (lb/size) 5=264/ Mechanical, 8=260/0-5-8
Max Grav 5=422 (LC 11), 8=418 (LC 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-8=-366/10, 4-5=-365/9, 1-2=-22/1, 2-3=-610/0, 3-4=0/0
BOT CHORD 7-8=0/610, 6-7=0/610, 5-6=0/610
WEBS 3-5=-655/0, 2-8=-654/0, 2-7=-61/94, 3-6=-62/93

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
4) This truss has been designed for a moving concentrated load of 250.0lb live and 100.0lb dead located at all mid panels and at all panel points along the Top Chord, nonconcurrent with any other live loads.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

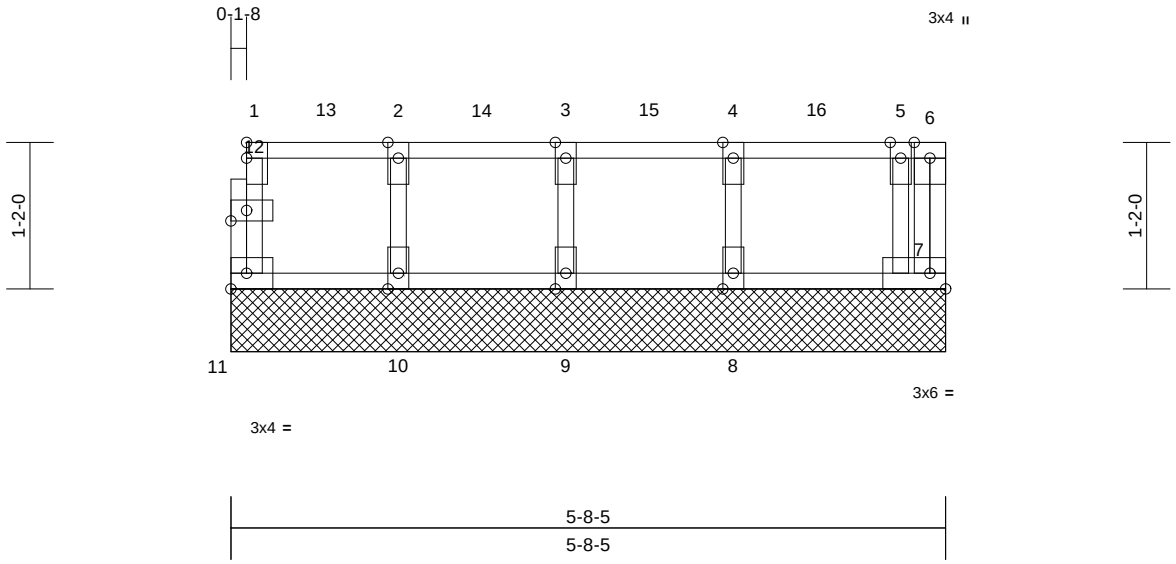
LOAD CASE(S) Standard

March 10,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
2794662	3F23	Floor Supported Gable	1	1	I50703125 Job Reference (optional)

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Mar 10 09:18:30 Page: 1
ID:MZvDoFeIzQfH7clC99dhedyTuV4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:18.3

Plate Offsets (X, Y): [12:0-1-8,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.39	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 27 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-8-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 7=89/5-8-5, 8=158/5-8-5, 9=146/5-8-5, 10=136/5-8-5, 11=63/5-8-5
Max Uplift 7=-5 (LC 6), 10=-2 (LC 7), 11=-18 (LC 5)
Max Grav 7=349 (LC 8), 8=391 (LC 14), 9=387 (LC 13), 10=384 (LC 12), 11=355 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-11=-356/29, 6-7=-108/134, 1-2=-44/3, 2-3=-44/3, 3-4=-44/3, 4-5=-44/3, 5-6=-19/8
BOT CHORD 10-11=-3/44, 9-10=-3/44, 8-9=-3/44, 7-8=-3/44
WEBS 2-10=-371/15, 3-9=-373/14, 4-8=-375/9, 5-7=-326/51

NOTES
1) All plates are 2x4 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 11, 5 lb uplift at joint 7 and 2 lb uplift at joint 10.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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