



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

Re: P200304
Roof

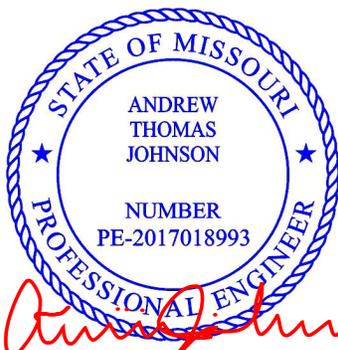


The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Premier Building Supply (Springhill, KS)20300 W 207th Street.

Pages or sheets covered by this seal: I42078520 thru I42078596

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

Missouri COA: Engineering 001193



July 20,2020

Johnson, Andrew ,Engineer

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

Job	Truss	Truss Type	Qty	Ply	Roof	142078520
P200304	A01	Common Supported Gable	1	1		
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,						Job Reference (optional)

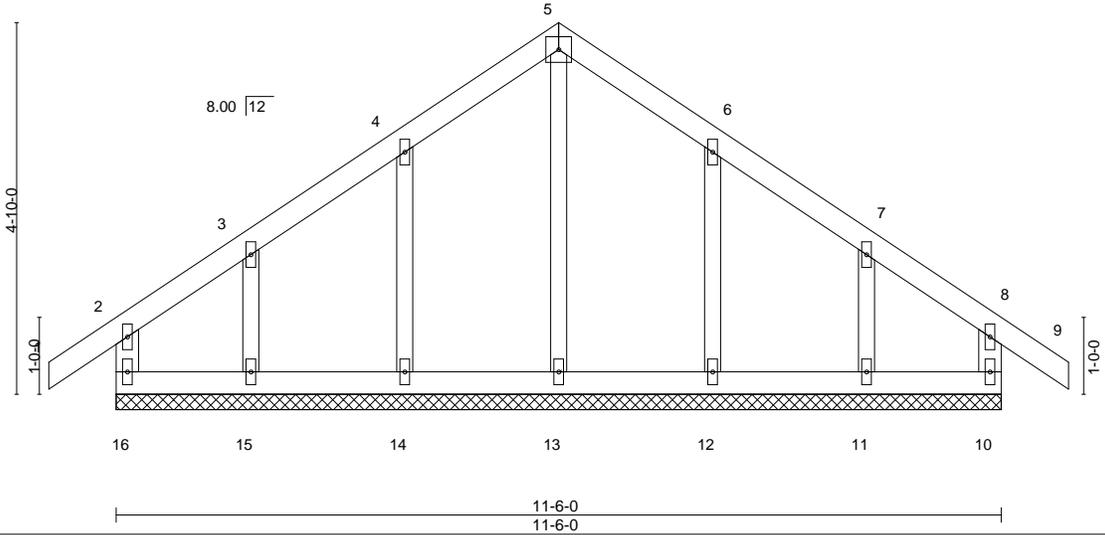
8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:10:43 2020 Page 1

ID:TaBrkdJGwHITuvykGBpLdBz1ced-SjraZnBT5uMKW59FIQgqkhGhncL?Z_ULnsKe_FywUtQ



4x4 =

Scale = 1:29.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	-0.00	9	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(TL)	-0.00	9	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(TL)	-0.00	10	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-R						
								Weight: 44 lb	FT = 20%

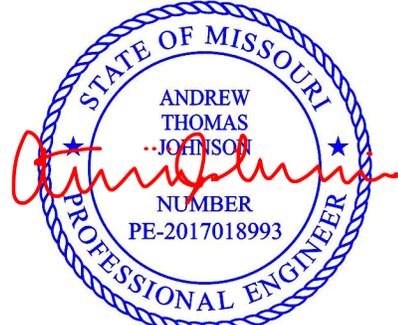
LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 11-6-0.
 (lb) - Max Horz 16=137(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11
 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

NOTES-

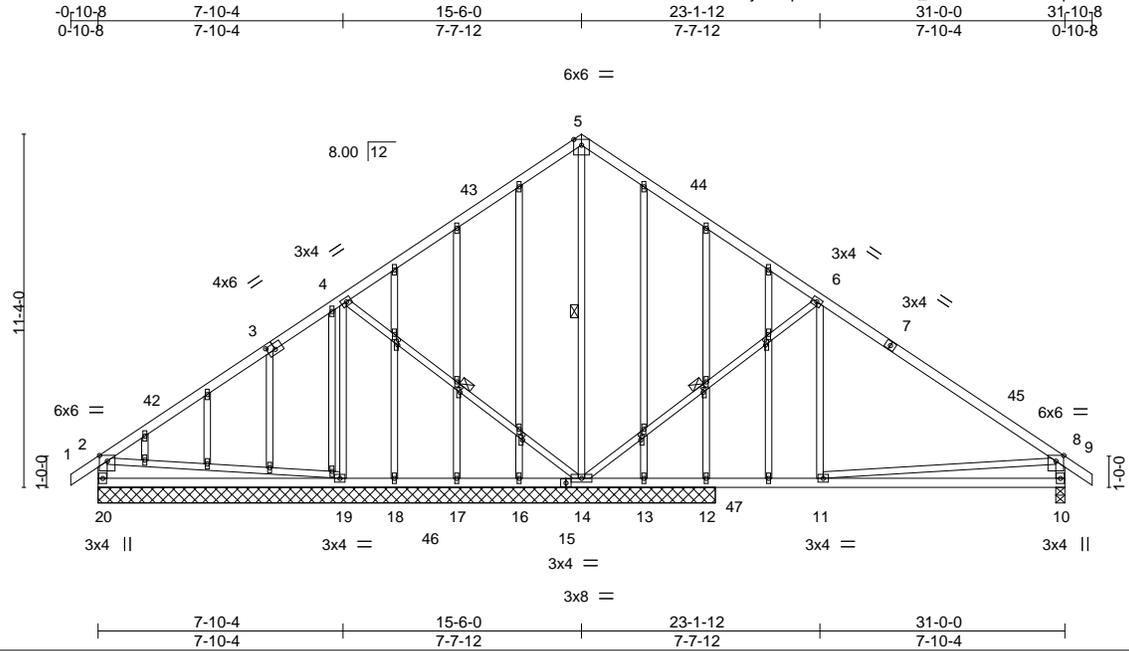
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 5-9-0, Corner(3) 5-9-0 to 8-9-0, Exterior(2) 8-9-0 to 12-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12, 11.



July 20,2020

Job	Truss	Truss Type	Qty	Ply	Roof	142078521
P200304	B01	Common Structural Gable	1	1		

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:10:45 2020 Page 1
 ID:TaBrkdJGwHiTuvykGBpLdBz1ced-P5zL_TDkdVc2mPJetriq6LsNQwZ1nJeFApl38ywUtO



Scale = 1:73.5

Plate Offsets (X, Y)-- [3:0-0-0,0-1-12], [3:0-3-0,0-2-4], [21:0-1-15,0-0-4], [23:0-1-15,0-0-4], [25:0-1-15,0-0-4], [30:0-1-8,0-0-0], [36:0-1-15,0-0-4], [38:0-1-15,0-0-4], [41:0-1-15,0-0-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.77	Vert(LL)	0.15 10-11	>923	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.42	Vert(TL)	-0.24 10-11	>578	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(TL)	0.02 10	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-MS					Weight: 176 lb	FT = 20%

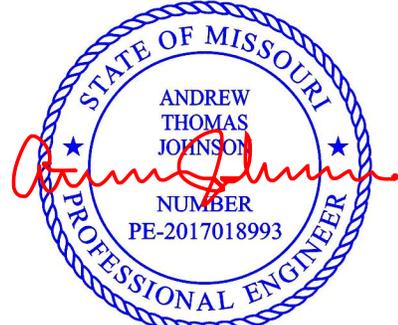
LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except*	WEBS 1 Row at midpt 5-14, 6-14, 4-14
2-20,8-10: 2x4 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 19-9-8 except (jt=length) 10=0-3-8.
 (lb) - Max Horz 20=304(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 20, 19 except 14=-364(LC 12), 10=-277(LC 12), 18=-111(LC 3)
 Max Grav All reactions 250 lb or less at joint(s) 16, 17, 18, 13, 12 except 20=477(LC 21), 14=1046(LC 1), 19=579(LC 21), 10=724(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-329/81, 6-8=-710/349, 2-20=-407/156, 8-10=-650/316
 BOT CHORD 19-20=-194/571, 18-19=-156/276, 17-18=-156/276, 16-17=-156/276, 14-16=-156/276, 13-14=-146/473, 12-13=-146/473, 11-12=-146/473, 10-11=-274/414
 WEBS 5-14=-500/86, 6-14=-633/501, 6-11=-243/280, 4-14=-292/208, 4-19=-382/99, 2-19=-361/208

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDD=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-2-11, Interior(1) 2-2-11 to 15-6-0, Exterior(2) 15-6-0 to 18-7-3, Interior(1) 18-7-3 to 31-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 19 except (jt=lb) 14=364, 10=277, 18=111.



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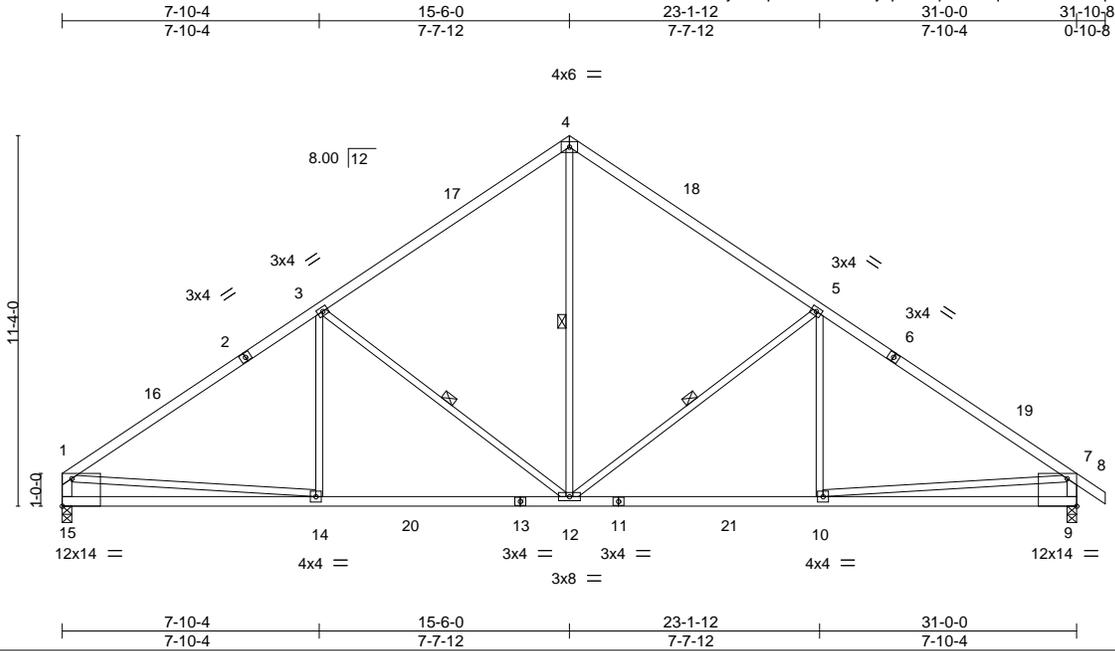
Job P200304	Truss B02	Truss Type Common	Qty 10	Ply 1	Roof Job Reference (optional)	142078522
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:10:46 2020 Page 1

ID:TaBrkdJGwHiTuvykGBpLdBz1ced-tlXJpEMOpkvNZtqRYDXMKu0mpEfm9HnUqYJbaywUtN



Scale = 1:70.1

Plate Offsets (X,Y)--	[9:Edge,0-10-2], [9:0-1-12,0-0-0], [15:0-1-12,0-0-0], [15:Edge,0-10-2]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.86	Vert(LL)	0.16	9-10	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.55	Vert(TL)	-0.25	12-14	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.89	Horz(TL)	0.06	9	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-MS							
									Weight: 126 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-5-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 1-15,7-9: 2x4 SPF No.2	WEBS 1 Row at midpt 4-12, 5-12, 3-12

REACTIONS. (size) 15=0-3-8, 9=0-3-8
 Max Horz 15=-299(LC 10)
 Max Uplift 15=539(LC 12), 9=581(LC 12)
 Max Grav 15=1381(LC 1), 9=1455(LC 1)

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

TOP CHORD	1-3=-1855/1129, 3-4=-1352/919, 4-5=-1349/915, 5-7=-1856/1128, 1-15=-1306/764, 7-9=-1380/812
BOT CHORD	14-15=-264/458, 12-14=-801/1433, 10-12=-792/1424, 9-10=-309/460
WEBS	4-12=-812/838, 5-12=-588/468, 5-10=-211/255, 3-12=-598/471, 1-14=-573/1109, 7-10=-485/981

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 3-2-15, Interior(1) 3-2-15 to 15-6-0, Exterior(2) 15-6-0 to 18-7-3, Interior(1) 18-7-3 to 31-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=539, 9=581.



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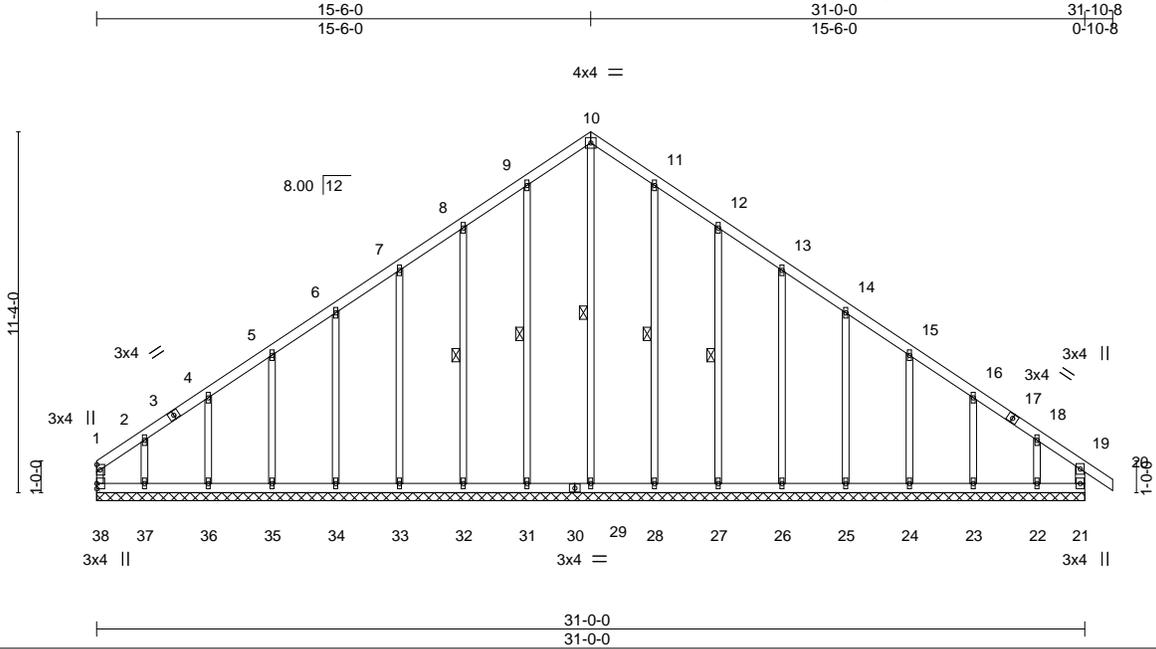
Job	Truss	Truss Type	Qty	Ply	Roof	142078523
P200304	B03	Common Supported Gable	1	1		

Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:10:48 2020 Page 1

ID:TaBrkJGwHiTuvykGBpLdBz1ced-pgTcUFcwQ?dds1DYzG?RizX1d1DEB?4x81PgSywUtL



Scale = 1:71.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	-0.00	20	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(TL)	-0.01	20	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.37	Horz(TL)	-0.01	21	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-R						
								Weight: 151 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 19-21: 2x4 SPF No.2	WEBS 1 Row at midpt 10-29, 9-31, 8-32, 11-28, 12-27
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 31-0-0.
 (lb) - Max Horz 38=-299(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 31, 32, 33, 34, 35, 36, 28, 27, 26, 25, 24, 23 except 38=-148(LC 10), 21=-105(LC 11), 37=-104(LC 12), 22=-105(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 38, 21, 31, 32, 33, 34, 35, 36, 37, 28, 27, 26, 25, 24, 23, 22 except 29=314(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 7-8=-222/256, 8-9=-283/328, 9-10=-329/382, 10-11=-329/382, 11-12=-283/328, 12-13=-222/256
 WEBS 10-29=-334/227

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=31ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-4 to 3-6-0, Exterior(2) 3-6-0 to 15-6-0, Corner(3) 15-6-0 to 18-7-3, Exterior(2) 18-7-3 to 31-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 31, 32, 33, 34, 35, 36, 28, 27, 26, 25, 24, 23 except (jt=lb) 38=148, 21=105, 37=104, 22=105.



July 20, 2020

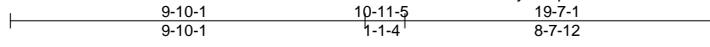
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof	I42078524
P200304	VB01	GABLE	1	1		
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,						8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:44 2020 Page 1
						ID:TaBrkdJGwHiTuvykgGBpLdBz1ced-AS1eMewkke2gLtJ_qkG7jY12vC8DMYdKpscNdDywUsT



4x4 =

Scale: 3/16"=1'

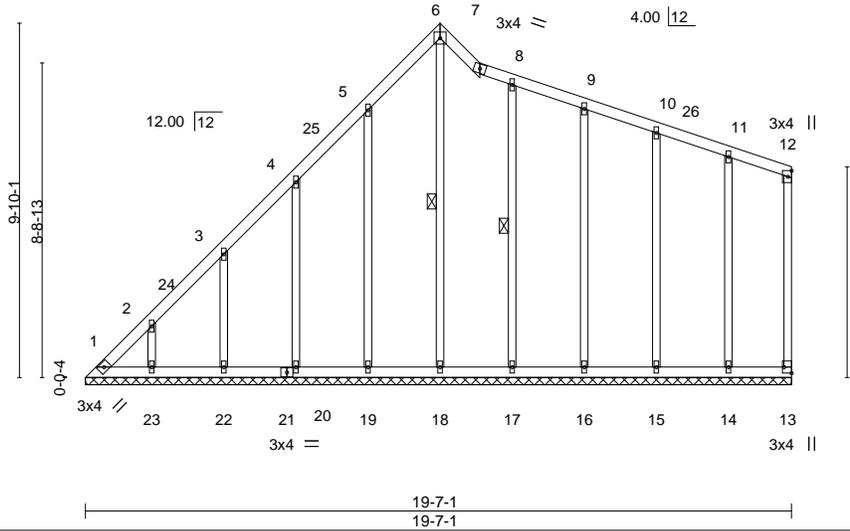


Plate Offsets (X,Y)-- [13:Edge,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.36	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.25	Horz(TL)	-0.00	13	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-S					Weight: 98 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2
OTHERS 2x3 SPF No.2

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.
WEBS 1 Row at midpt 6-18, 8-17

REACTIONS. All bearings 19-7-1.
(lb) - Max Horz 1=301(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 13, 18, 19, 22, 23, 17, 16, 15, 14 except 1=178(LC 10), 20=101(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 13, 19, 20, 22, 23, 17, 16, 15, 14 except 18=260(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-348/431, 2-3=-277/341, 5-6=-216/298, 6-7=-183/259
WEBS 6-18=-285/135

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 9-10-1, Exterior(2) 9-10-1 to 10-11-5, Interior(1) 10-11-5 to 19-5-13 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 18, 19, 22, 23, 17, 16, 15, 14 except (jt=lb) 1=178, 20=101.



July 20, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

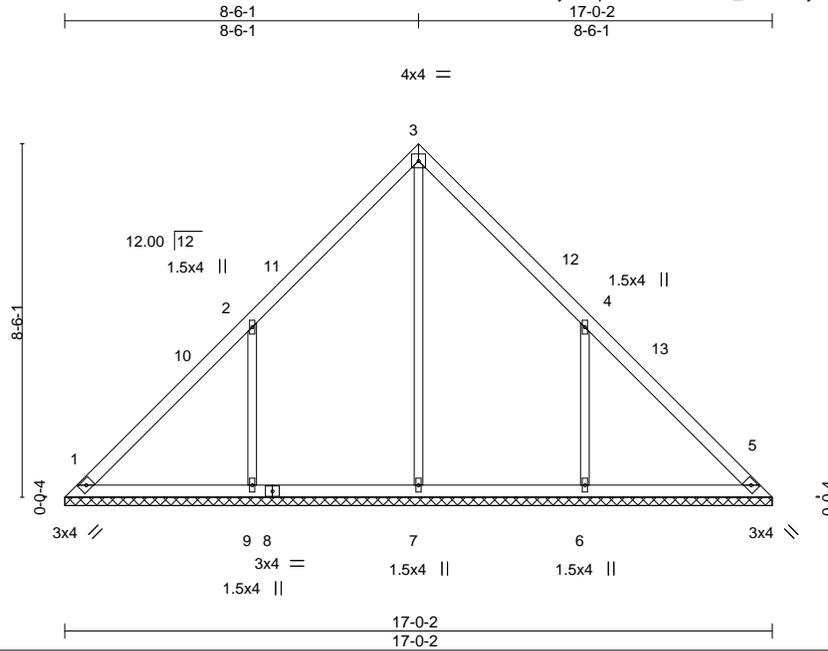
Job P200304	Truss VB02	Truss Type GABLE	Qty 1	Ply 1	Roof Job Reference (optional)	142078525
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:45 2020 Page 1

ID:TaBrkdJGwHITuvyKGBpLdBz1ced-eeb0a_xmVvXAXyduAORnMFmqFScTh5_OT2WLwAfywUsS



Scale = 1:55.1

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.24	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.22	Horz(TL)	0.00	5	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-S					Weight: 59 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 OTHERS 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 17-0-2.
 (lb) - Max Horz 1=-222(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-225(LC 12), 6=-225(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=340(LC 17), 9=547(LC 17), 6=547(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-9=-422/289, 4-6=-422/289

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 8-6-1, Exterior(2) 8-6-1 to 11-6-1, Interior(1) 11-6-1 to 16-7-15 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=225, 6=225.



July 20,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

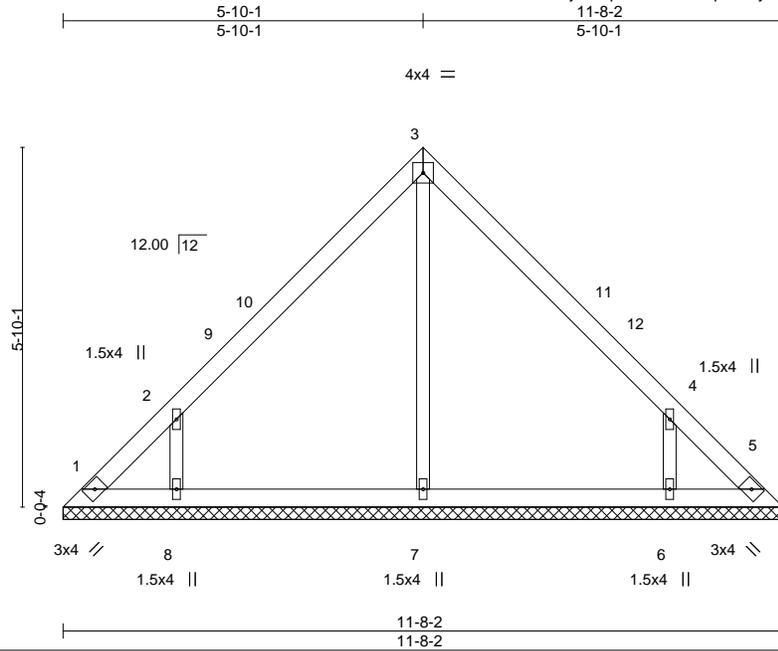
Job P200304	Truss VB04	Truss Type GABLE	Qty 1	Ply 1	Roof Job Reference (optional)	142078527
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:46 2020 Page 1

ID:TaBrkdJGwHiTuvykGBpLdBz1ced-6q9PnKy?GFIOanTMx9lbozNRF?qhQdHA5Ui5ywUsR



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(TL)	0.00	5	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-S					Weight: 37 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 11-8-2.
 (lb) - Max Horz 1=149(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=172(LC 12), 6=172(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=372(LC 17), 6=372(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-344/266, 4-6=-344/266

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 5-10-1, Exterior(2) 5-10-1 to 8-10-1, Interior(1) 8-10-1 to 11-3-15 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=172, 6=172.



July 20,2020

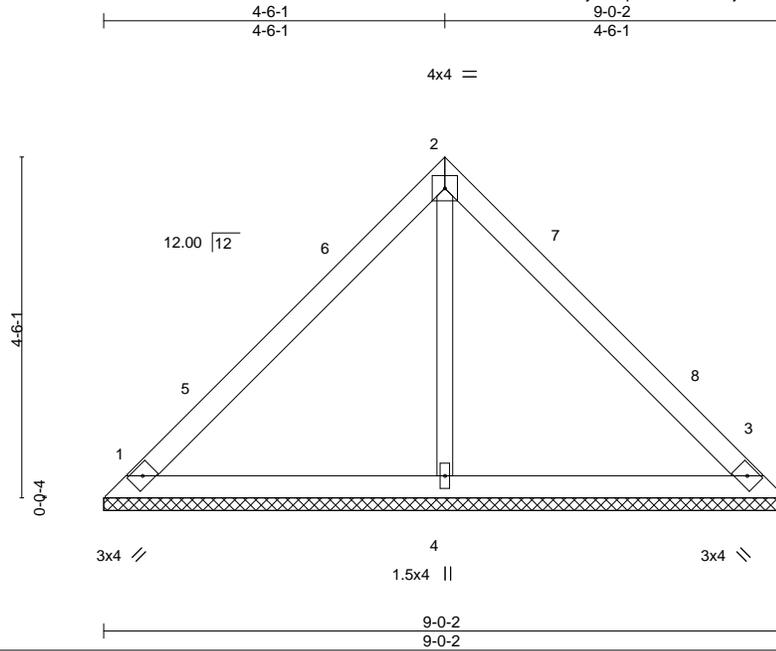
Job P200304	Truss VB05	Truss Type GABLE	Qty 1	Ply 1	Roof Job Reference (optional)	142078528
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:47 2020 Page 1

ID:TaBrkdJGwHiTuvyKGBpLdBz1ced-a1jn?fzd1ZQFCx2ZVspqKBwZVP9FZwEmVqq1EYywUsQ



Scale = 1:30.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.34	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(TL)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(TL)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-P						Weight: 27 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 OTHERS 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=9-0-2, 3=9-0-2, 4=9-0-2
 Max Horz 1=-113(LC 10)
 Max Uplift 1=-60(LC 12), 3=-60(LC 12)
 Max Grav 1=238(LC 1), 3=238(LC 1), 4=272(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 4-6-1, Exterior(2) 4-6-1 to 7-6-1, Interior(1) 7-6-1 to 8-7-15 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



July 20,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job P200304	Truss VB06	Truss Type Valley	Qty 1	Ply 1	Roof Job Reference (optional)	142078529
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

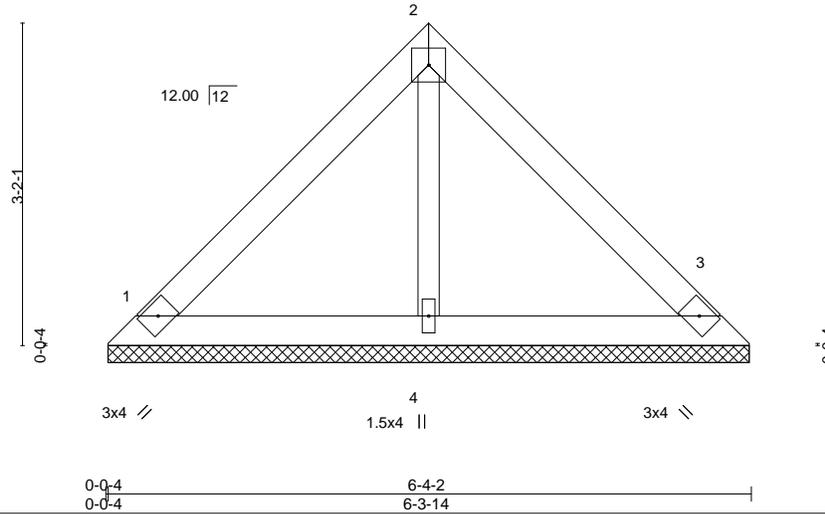
8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:48 2020 Page 1

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4x4 =

Scale = 1:22.5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.15	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.07	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Vert(TL) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(TL) 0.00 3 n/a n/a		
	Code IRC2012/TPI2007			Weight: 18 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 OTHERS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=6-3-10, 3=6-3-10, 4=6-3-10
 Max Horz 1=-77(LC 10)
 Max Uplift 1=-41(LC 12), 3=-41(LC 12)
 Max Grav 1=162(LC 1), 3=162(LC 1), 4=185(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



July 20,2020

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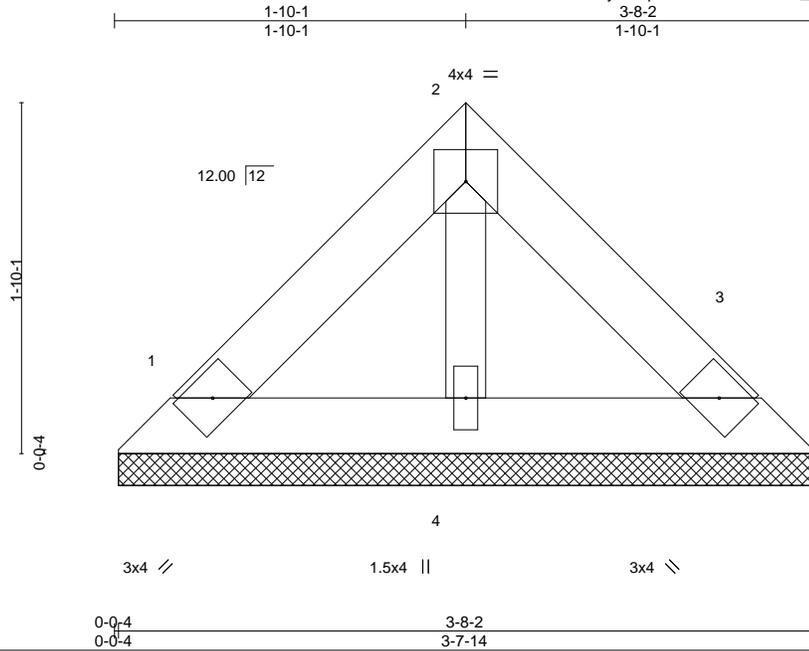
Job P200304	Truss VB07	Truss Type Valley	Qty 1	Ply 1	Roof Job Reference (optional)	142078530
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:48 2020 Page 1

ID:TaBrkdJGwHiTuvykGBpLdBz1ced-2DH9C?_FosY6p4dl3ZK3tOSpxpWUIOPwkUabm_ywUsP



Scale: 1"=1'

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(TL)	0.00	3	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-P					Weight: 10 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 OTHERS 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-8-2 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-7-10, 3=3-7-10, 4=3-7-10
 Max Horz 1=-40(LC 10)
 Max Uplift 1=-21(LC 12), 3=-21(LC 12)
 Max Grav 1=85(LC 1), 3=85(LC 1), 4=97(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



July 20, 2020

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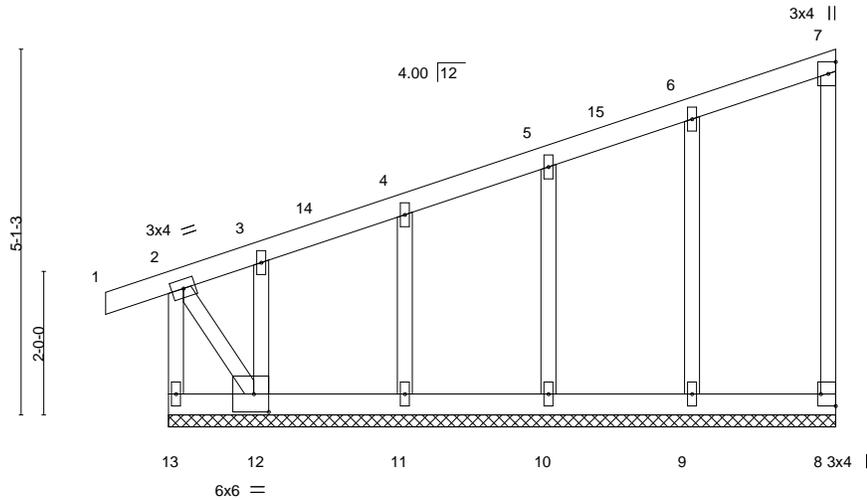
Job	Truss	Truss Type	Qty	Ply	Roof	142078531
P200304	C01	Monopitch Supported Gable	1	1		

Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:10:49 2020 Page 1

ID:TaBrkdJGwHiTuvykGBpLdBz1ced-HtCrpqGEhk7UE0cP6gnE_yWfL1NRzhoEAonzCvywUtk



Scale: 3/8"=1'

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.32	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(LL) 0.00 1 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.14	Vert(TL) -0.00 1 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(TL) -0.00 8 n/a n/a		
	Code IRC2012/TPI2007			Weight: 39 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2
 OTHERS 2x3 SPF No.2

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, Except: 6-0-0 oc bracing: 12-13.

REACTIONS.

All bearings 9-3-8.
 (lb) - Max Horz 13=202(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 13, 8, 9, 10, 11 except 12=-205(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 13, 8, 9, 10, 11, 12

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-13=-473/250, 2-3=-269/156
 BOT CHORD 12-13=-385/276
 WEBS 2-12=-328/569

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 9-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 1.5x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 8, 9, 10, 11 except (jt=lb) 12=205.



July 20,2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job P200304	Truss C03	Truss Type Roof Special	Qty 2	Ply 1	Roof Job Reference (optional)	142078533
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:10:52 2020 Page 1

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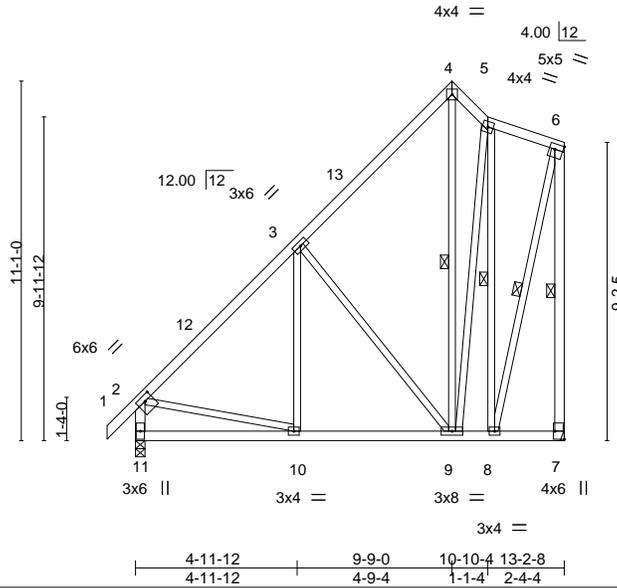


Plate Offsets (X,Y)--	[2:0-3-0,0-1-15], [6:Edge,0-2-0], [7:Edge,0-3-8]
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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.59	Vert(LL) 0.05 9-10 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.24	Vert(TL) -0.05 9-10 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.91	Horz(TL) 0.01 7 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-MS		Weight: 94 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 7-2-13 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-11,6-7: 2x4 SPF No.2	WEBS 1 Row at midpt 4-9, 5-8, 6-7, 6-8

REACTIONS. (size) 11=0-3-8, 7=Mechanical
 Max Horz 11=431(LC 11)
 Max Uplift 11=-245(LC 12), 7=-299(LC 9)
 Max Grav 11=656(LC 1), 7=578(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-572/450, 3-4=-345/373, 4-5=-311/359, 5-6=-283/310, 2-11=-612/443, 6-7=-562/605
 BOT CHORD 10-11=-641/671, 9-10=-571/568, 8-9=-255/262
 WEBS 3-10=-270/176, 3-9=-417/435, 4-9=-373/223, 5-9=-391/397, 5-8=-557/560, 2-10=-106/265, 6-8=-597/562

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 9-9-0, Exterior(2) 9-9-0 to 10-10-4, Interior(1) 10-10-4 to 13-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=245, 7=299.



July 20,2020

Job P200304	Truss D01	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	Roof Job Reference (optional)	142078534
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:10:52 2020 Page 1

ID:TaBrkdJGwHiTuvykGBpLdBz1ced-hRu_Ssl7_fV35UL_npKxcb8AOENIA3kgsM?dpEyUitH



Scale = 1:32.6

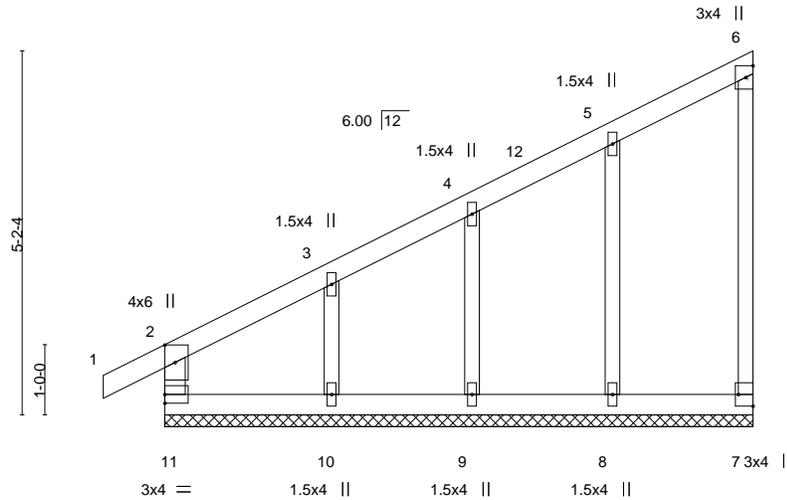


Plate Offsets (X,Y)-- [2:0-3-0,Edge], [7:Edge,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.34	Vert(LL)	0.00	1	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(TL)	-0.00	2	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(TL)	0.00	7	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-R					Weight: 32 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 6-7: 2x3 SPF No.2
 OTHERS 2x3 SPF No.2

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.

All bearings 8-4-8.
 (lb) - Max Horz 11=211(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 11, 7, 8, 9 except 10=-101(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 11, 7, 8, 9, 10

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

TOP CHORD 2-3=-406/219, 3-4=-278/163
 WEBS 3-10=-166/258

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) -0-10-8 to 2-4-8, Exterior(2) 2-4-8 to 8-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 7, 8, 9 except (jt=lb) 10=101.



July 20,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

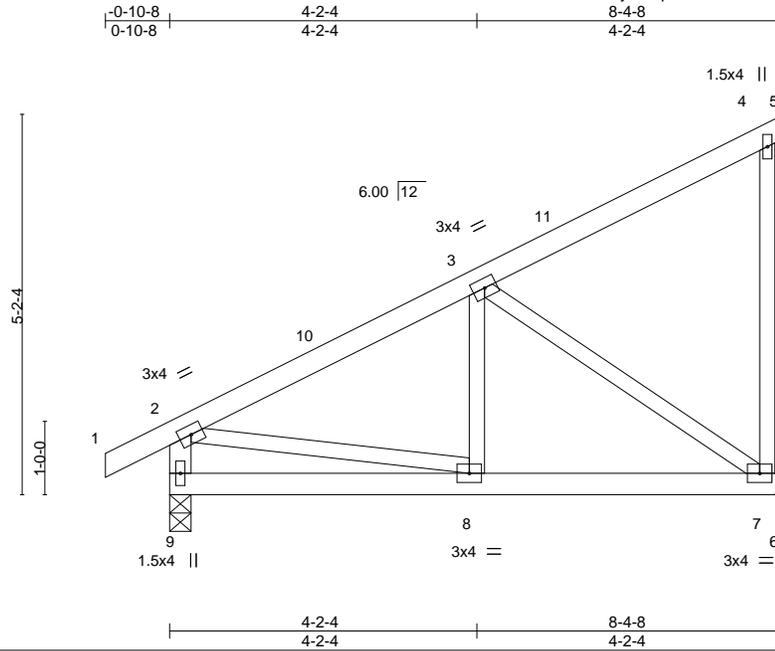
Job P200304	Truss D02	Truss Type Monopitch	Qty 2	Ply 1	Roof Job Reference (optional)	142078535
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:10:53 2020 Page 1

ID:TaBrkdJGwHiTuyykGBpLdBz1ced-AeSMfCJllzdwjewALWrA8ohJGejvTZp5QlALgywUtG



Scale = 1:31.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.46	Vert(LL)	0.02	8-9	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(TL)	-0.02	8-9	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.22	Horz(TL)	-0.00	7	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-MP						
								Weight: 35 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 2-9: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 9-0-2 oc bracing.

REACTIONS.

(size) 9=0-3-8, 7=Mechanical
 Max Horz 9=211(LC 9)
 Max Uplift 9=171(LC 12), 7=159(LC 9)
 Max Grav 9=436(LC 1), 7=365(LC 1)

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

TOP CHORD 2-3=-398/333, 2-9=-403/332
 BOT CHORD 8-9=-347/256, 7-8=-414/308
 WEBS 3-7=-377/428, 2-8=-210/314

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=171, 7=159.



July 20,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job P200304	Truss E01	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	Roof Job Reference (optional)	142078536
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:10:54 2020 Page 1

ID:TaBrkdJGwHiTuvykGBpLdBz1ced-eq0ktYKNWGiLnVNvEMPh0DX024jezSj4Ukt6ywUitF



Scale: 3/4"=1'

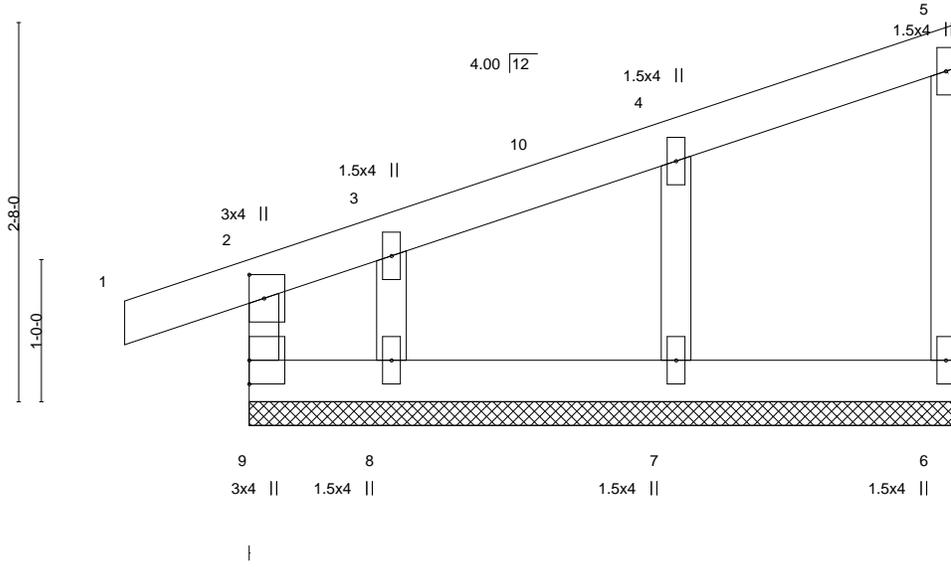


Plate Offsets (X,Y)-- [2:0-2-0,0-1-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	0.00	1	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(TL)	-0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(TL)	0.00	6	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-R					Weight: 17 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2
 OTHERS 2x3 SPF No.2

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. All bearings 5-0-0.
 (lb) - Max Horz 9=102(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 9, 6, 7, 8
 Max Grav All reactions 250 lb or less at joint(s) 9, 6, 7, 8

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 4-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 6, 7, 8.



July 20,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

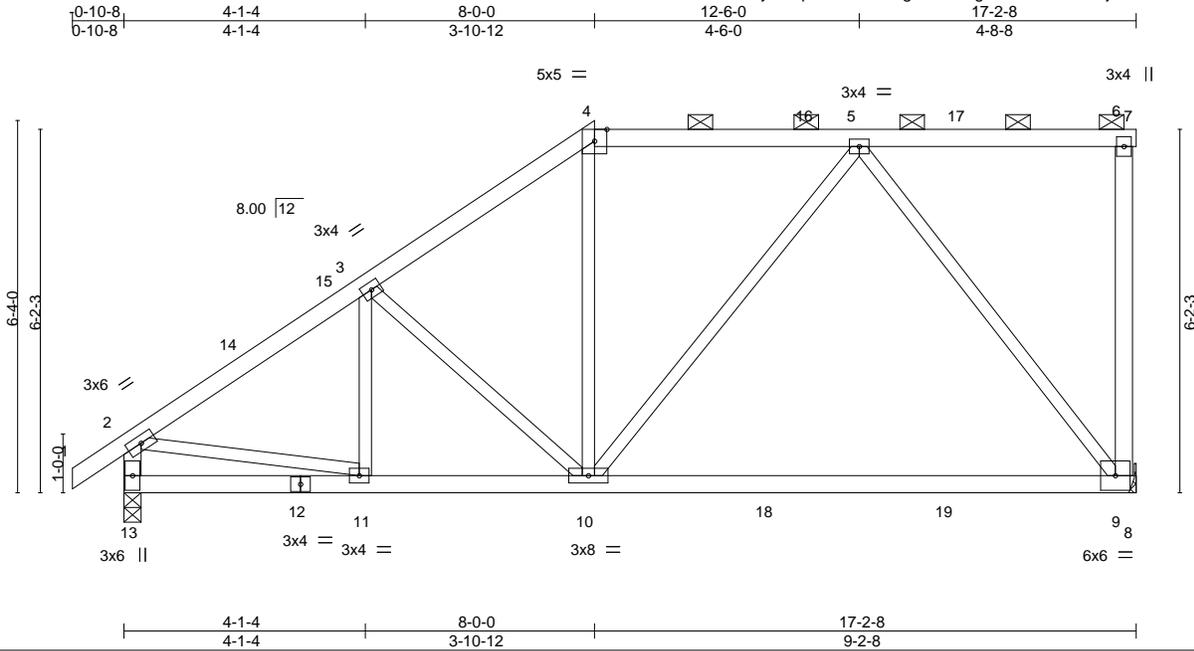


Job P200304	Truss P04	Truss Type Half Hip	Qty 1	Ply 1	Roof Job Reference (optional)	142078539
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:40 2020 Page 1

ID:TaBrkJGwHiTuvykGBpLdBz1ced-Hgo7WgtEgPYFss0CbuBBYj7NrbfMQZPkuEe9USywUsX



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.36	Vert(LL)	0.38	9-10	>531	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.61	Vert(TL)	-0.46	9-10	>436	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.91	Horz(TL)	0.01	9	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-MS							
									Weight: 75 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-7 oc bracing.
WEBS 2x3 SPF No.2 *Except* 6-9,2-13: 2x4 SPF No.2	

REACTIONS. (size) 9=Mechanical, 13=0-3-8
 Max Horz 13=260(LC 11)
 Max Uplift 9=-394(LC 9), 13=-330(LC 12)
 Max Grav 9=765(LC 1), 13=832(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-903/687, 3-4=-754/682, 4-5=-566/599, 2-13=-781/559
 BOT CHORD 11-13=-459/441, 10-11=-782/700, 9-10=-430/430
 WEBS 4-10=-253/188, 5-10=-360/246, 5-9=-673/542, 2-11=-375/581

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-0-0, Exterior(2) 8-0-0 to 12-6-0, Interior(1) 12-6-0 to 17-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=394, 13=330.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 20,2020

Job P200304	Truss P05	Truss Type Half Hip	Qty 1	Ply 1	Roof Job Reference (optional)	142078540
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:41 2020 Page 1

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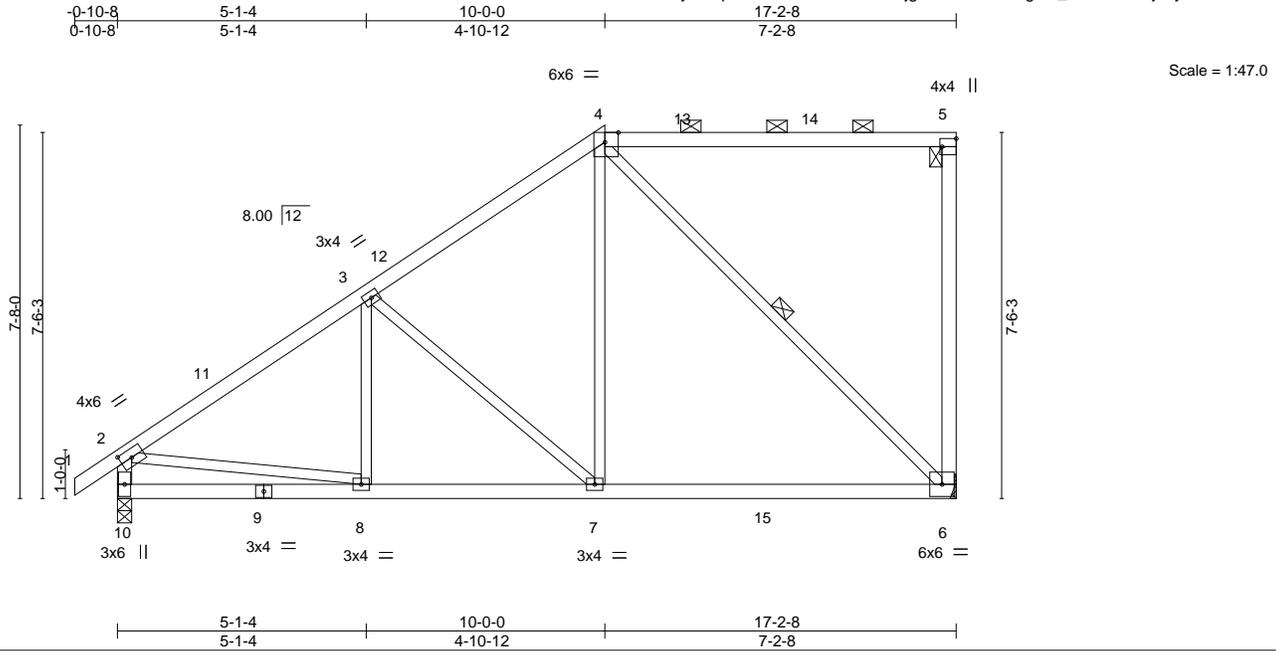


Plate Offsets (X,Y)--	[2:0-2-14,0-2-0], [4:0-3-5,Edge], [5:Edge,0-3-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.77	Vert(LL)	0.19	6-7	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.39	Vert(TL)	-0.21	6-7	>986	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.66	Horz(TL)	0.02	6	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-MS						Weight: 77 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-11-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-3-9 oc bracing.
WEBS 2x3 SPF No.2 *Except* 5-6,2-10: 2x4 SPF No.2	WEBS 1 Row at midpt 4-6

REACTIONS. (size) 6=Mechanical, 10=0-3-8
 Max Horz 10=316(LC 11)
 Max Uplift 6=-392(LC 9), 10=-328(LC 12)
 Max Grav 6=759(LC 1), 10=835(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-920/695, 3-4=-645/573, 2-10=-782/550
 BOT CHORD 8-10=-567/573, 7-8=-808/751, 6-7=-556/487
 WEBS 3-7=-341/323, 4-7=-509/394, 4-6=-629/655, 2-8=-325/511

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-0-0, Exterior(2) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 17-0-12 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=392, 10=328.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job	Truss	Truss Type	Qty	Ply	Roof	142078542
P200304	P07	Half Hip	1	1		

Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:43 2020 Page 1

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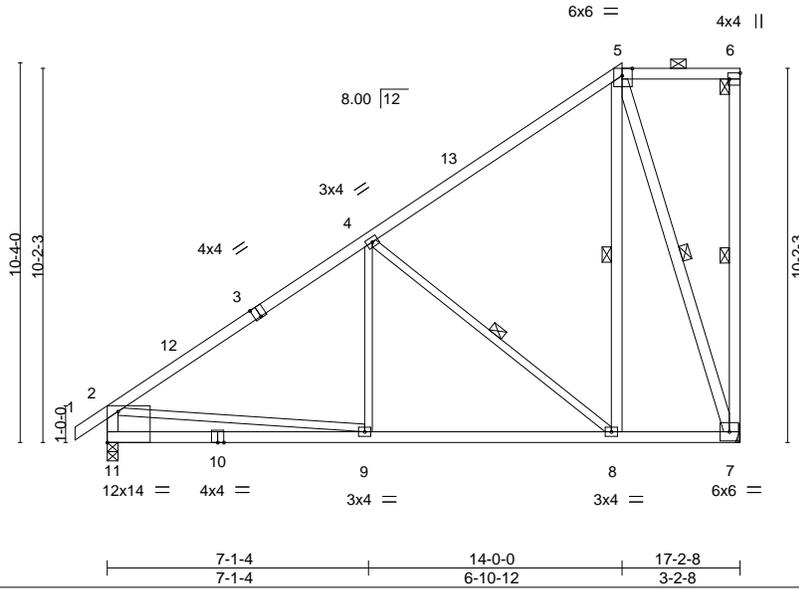


Plate Offsets (X, Y)--	[3:0-2-0,Edge], [5:0-3-5,Edge], [6:Edge,0-3-8], [11:0-1-12,0-0-0], [11:Edge,0-10-2]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.64	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.40	Vert(LL) 0.12 9-11 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.38	Vert(TL) -0.14 9-11 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(TL) 0.02 7 n/a n/a		
	Code IRC2012/TPI2007			Weight: 94 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-10-9 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-2-8 oc bracing.
WEBS 2x4 SPF No.2 *Except* 4-9,4-8,2-9: 2x3 SPF No.2	WEBS 1 Row at midpt 6-7, 4-8, 5-8, 5-7

REACTIONS. (size) 7=Mechanical, 11=0-3-8
 Max Horz 11=429(LC 11)
 Max Uplift 7=-390(LC 9), 11=-318(LC 12)
 Max Grav 7=759(LC 1), 11=835(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-906/665, 4-5=-405/377, 2-11=-771/515
 BOT CHORD 9-11=-809/859, 8-9=-794/782, 7-8=-340/335
 WEBS 4-9=-347/273, 4-8=-566/571, 5-8=-642/465, 5-7=-700/768, 2-9=-165/335

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 14-0-0, Exterior(2) 14-0-0 to 17-0-12 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=390, 11=318.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 20, 2020

Job P200304	Truss P01	Truss Type Half Hip Girder	Qty 1	Ply 1	Roof Job Reference (optional)	I42078544
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:38 2020 Page 2
ID:TaBrkdJGwHiTuvykGBpLdBz1ced-LIgN6bsz8oIXdYsqTT9jTl21Xny0yjGRRw93QZywUsZ

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 3=-5(B) 11=-30(B) 9=-121(B) 8=-83(B) 16=-39(B) 17=-83(B) 18=-83(B) 19=-83(B) 20=-83(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

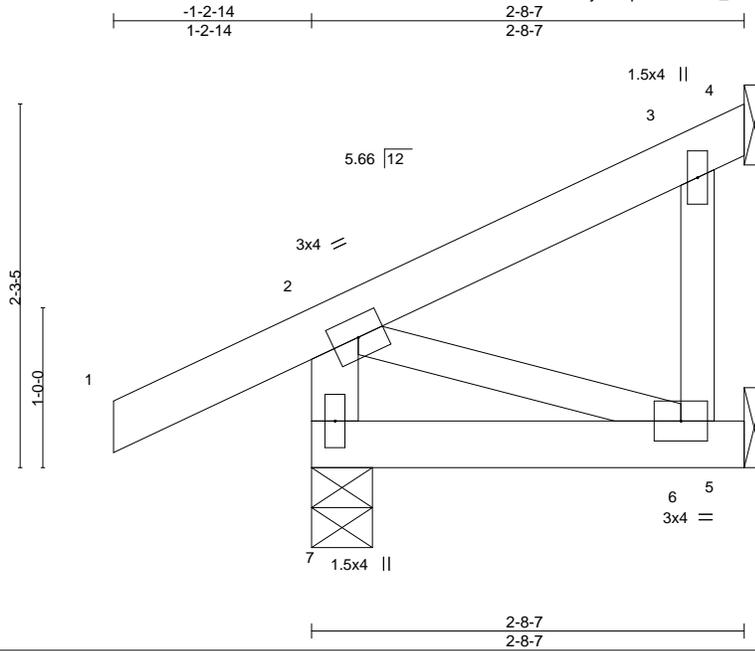
Job P200304	Truss HMN02	Truss Type Jack-Open	Qty 1	Ply 1	Roof Job Reference (optional)	I42078545
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:16 2020 Page 1

ID:TaBrkdJGwHiTuvykGBpLdBz1ced-_3L3U3bAK1Wf_AAAbBrmZaf8JvaxowuCNVpuerywUsv



Scale = 1:14.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	0.01 6-7	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(TL)	0.01 6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(TL)	-0.00 4	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-MP					Weight: 12 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 2-7: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 7=0-4-9, 4=Mechanical, 5=Mechanical
 Max Horz 7=96(LC 12)
 Max Uplift 7=-84(LC 12), 4=-48(LC 12), 5=-25(LC 9)
 Max Grav 7=236(LC 1), 4=61(LC 3), 5=47(LC 17)

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

TOP CHORD 2-7=-210/251

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 4, 5.



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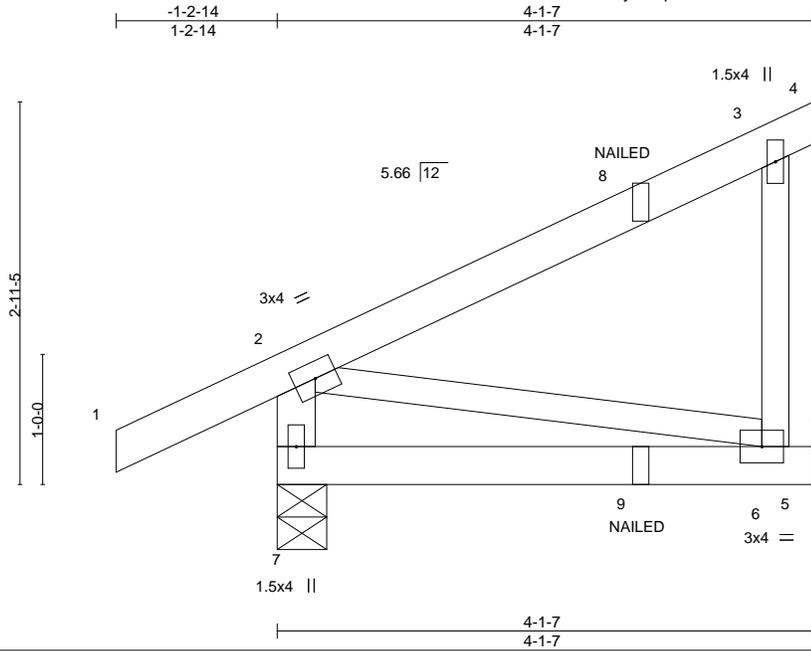
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	Roof	I42078546
P200304	HMN03	Diagonal Hip Girder	1	1		
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,						8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:17 2020 Page 1
						ID:TaBrkdJGwHiTuvykGBpLdBz1ced-TFvRiPco5LeWbKlOlZHo7sgT3JvnXNULc9ZSAHywUsu



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	0.03 6-7	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(TL)	-0.04 6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.03	Horz(TL)	-0.00 5	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-MP					Weight: 17 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-1-7 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-7: 2x4 SPF No.2	

REACTIONS. (size) 7=0-4-9, 5=Mechanical
 Max Horz 7=120(LC 8)
 Max Uplift 7=-110(LC 8), 5=-111(LC 8)
 Max Grav 7=290(LC 1), 5=149(LC 1)

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

NOTES-
 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 4) Refer to girder(s) for truss to truss connections.
 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=110, 5=111.
 6) "NAILED" indicates 3-10d skew 45 to 135 degrees (0.148" x 3") toe-nails per NDS guidelines.
 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-70, 2-3=-70, 3-4=-20, 5-7=-20



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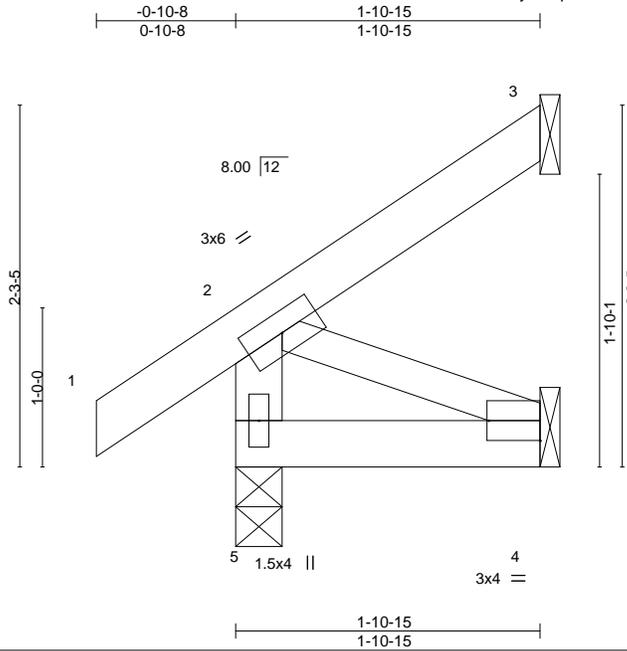
Job P200304	Truss J07	Truss Type Jack-Open	Qty 1	Ply 1	Roof Job Reference (optional)	142078547
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:21 2020 Page 1

ID:TaBrkdJGwHiTuvykGBpLdBz1ced-L18yXnfJ9Z9x4x3Z_PLkHirBBwJ2TBTxXnXfJ2ywUsq



Scale = 1:14.4

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.07	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) -0.00 5 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Vert(TL) -0.00 4-5 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Horz(TL) -0.00 3 n/a n/a		
	Code IRC2012/TPI2007			Weight: 8 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2 *Except* 2-4: 2x3 SPF No.2	

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=98(LC 12)
 Max Uplift 5=-39(LC 12), 3=-16(LC 9), 4=-49(LC 12)
 Max Grav 5=171(LC 1), 3=43(LC 17), 4=35(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.



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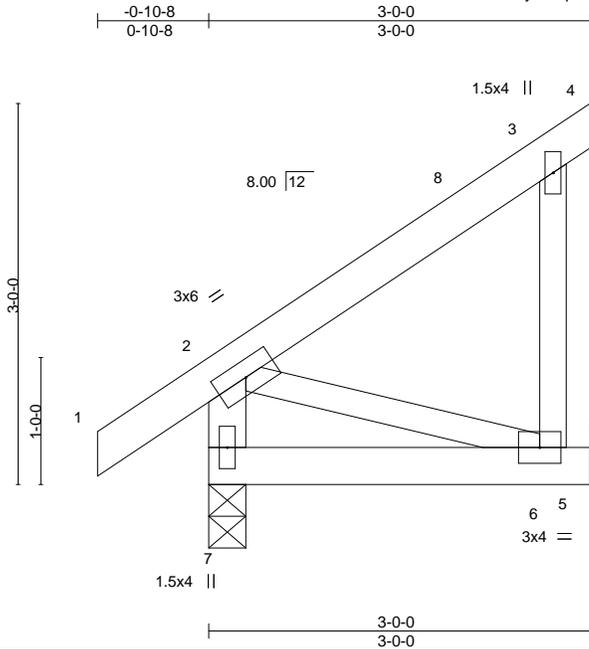
Job	Truss	Truss Type	Qty	Ply	Roof	142078548
P200304	J08	Jack-Open	5	1		

Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

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ID:TaBrkdJGwHiTuvykGBpLdBz1ced-L18yXnfJ9Z9x4x3Z_PLkHirBgwl2TBMxXnXfJ2ywUsq



Scale = 1:18.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.11	Vert(LL)	0.01 6-7	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(TL)	-0.01 6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(TL)	-0.00 5	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-MP					Weight: 13 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 2-7: 2x4 SPF No.2

BRACING-

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

REACTIONS. (size) 7=0-3-8, 5=Mechanical
 Max Horz 7=122(LC 12)
 Max Uplift 7=-50(LC 12), 5=-90(LC 12)
 Max Grav 7=210(LC 1), 5=103(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5.



July 20,2020

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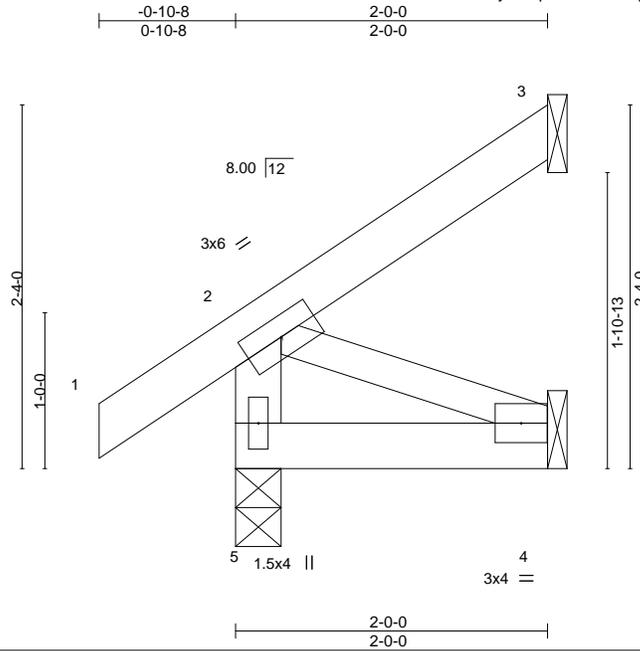
Job	Truss	Truss Type	Qty	Ply	Roof	142078549
P200304	J05	Jack-Open	1	1		

Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

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ID:TaBrkdJGwHiTuvykGBpLdBz1ced-tqaZKRehOG14SnUMQhqVkvI0SXzmkkDol7n6ncywUstr



Scale = 1:14.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	-0.00	5	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(TL)	-0.00	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(TL)	-0.00	3	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-MP						
								Weight: 9 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 2-4: 2x3 SPF No.2

BRACING-

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=100(LC 12)
 Max Uplift 5=-40(LC 12), 3=-18(LC 9), 4=-49(LC 12)
 Max Grav 5=174(LC 1), 3=47(LC 17), 4=37(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.



July 20,2020

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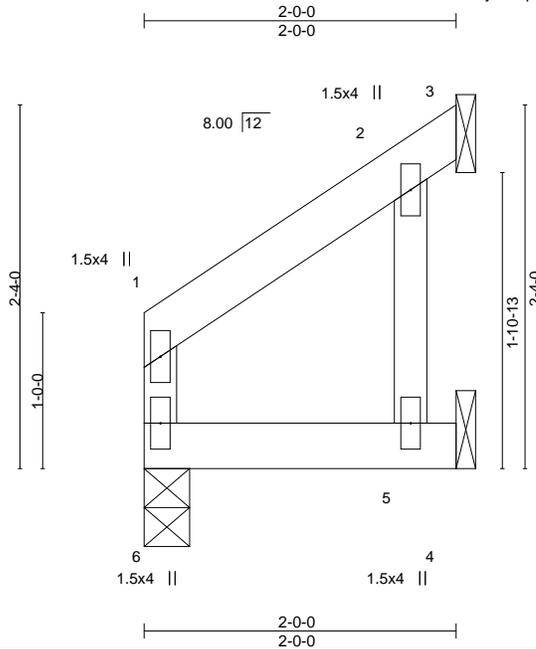
Job P200304	Truss J06	Truss Type Jack-Open	Qty 1	Ply 1	Roof Job Reference (optional)	142078550
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:20 2020 Page 1

ID:TaBrkdJGwHiTuvykGBpLdBz1ced-tqaZKRhOG14SnUMQhqVkiVIOGXzkkXoI7n6ncywUstr



Scale = 1:14.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.08	Vert(LL)	0.00	6	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(TL)	-0.00	5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(TL)	-0.01	3	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-MP						Weight: 7 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

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

REACTIONS.

(size) 6=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 6=64(LC 12)
 Max Uplift 6=-3(LC 8), 3=-25(LC 12), 4=-44(LC 12)
 Max Grav 6=85(LC 1), 3=28(LC 3), 4=59(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 3, 4.



July 20,2020

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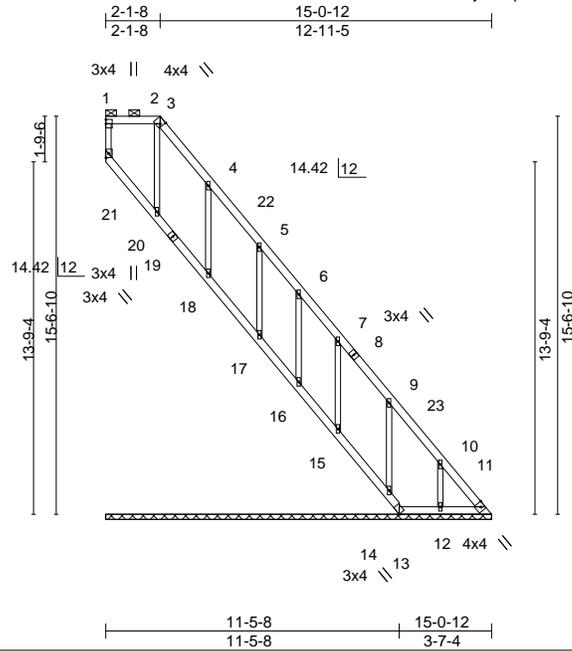
Job	Truss	Truss Type	Qty	Ply	Roof	142078551
P200304	LG03	GABLE	1	1		

Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:29 2020 Page 1

ID:TaBrkdJGwHiTuvykGBpLdBz1ced-6ZdzDWIKG19p2Ag5S4VccOAXM9_nLnd7M0T4baywUsi



Scale = 1:89.5

Plate Offsets (X,Y)--	[2:0-0-13,0-0-15], [3:0-1-5,Edge], [3:0-1-6,0-1-2]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL) n/a - n/a 999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.23	Vert(TL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(TL) 0.03 11 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-S		Weight: 70 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2
 OTHERS 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 15-0-12.
 (lb) - Max Horz 21=-491(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 16, 14 except 21=-241(LC 11), 13=-599(LC 12), 11=-247(LC 11), 12=-131(LC 12), 15=-107(LC 12), 18=-144(LC 12), 17=-106(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 16, 12, 14, 15, 20, 18, 17 except 21=475(LC 12), 13=342(LC 11), 11=500(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 5-6=-296/256, 6-7=-401/349, 7-9=-537/475, 9-10=-689/614, 10-11=-831/746
 BOT CHORD 20-21=-777/862, 18-20=-809/903, 17-18=-799/890, 16-17=-796/892, 15-16=-796/888, 14-15=-799/892, 13-14=-836/957, 12-13=-500/563, 11-12=-499/563

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-4 to 5-1-8, Interior(1) 5-1-8 to 14-9-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 3) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Bearing at joint(s) 21, 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 14 except (jt=lb) 21=241, 13=599, 11=247, 12=131, 15=107, 18=144, 17=106.
 - 8) Non Standard bearing condition. Review required.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 20,2020

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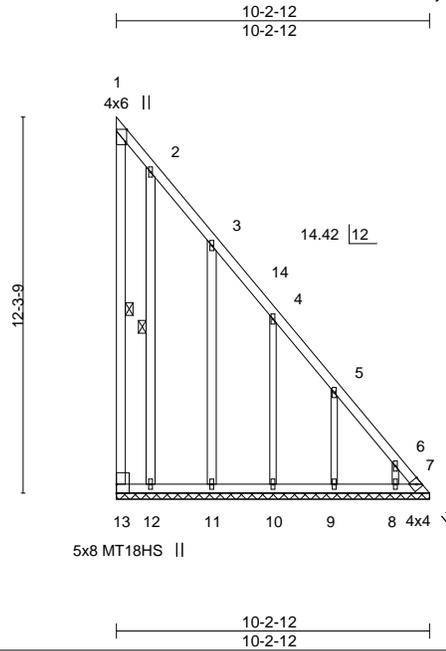
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof	142078552
P200304	LG02	GABLE	1	1		

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:28 2020 Page 1

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Scale = 1:74.9

Plate Offsets (X,Y)-- [1:Edge,0-0-8]										
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.52	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.44	Vert(TL)	n/a	-	n/a	999	MT18HS	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.29	Horz(TL)	0.01	7	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-S						Weight: 71 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 5-9-10 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-11-0 oc bracing.
WEBS	2x4 SPF 2400F 2.0E	WEBS	1 Row at midpt 1-13, 2-12
OTHERS	2x3 SPF No.2 *Except* 3-11,2-12: 2x4 SPF No.2		

REACTIONS. All bearings 10-2-12.
 (lb) - Max Horz 13=-497(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) except 13=-263(LC 10), 7=-315(LC 11), 10=-128(LC 12), 11=-109(LC 12), 12=-151(LC 12), 9=-124(LC 12), 8=-102(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 13, 10, 11, 12, 9, 8 except 7=466(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-421/420, 3-4=-613/571, 4-5=-771/711, 5-6=-933/861, 6-7=-1047/967
 BOT CHORD 12-13=-622/680, 11-12=-622/680, 10-11=-622/680, 9-10=-622/680, 8-9=-621/680,
 7-8=-620/678
 WEBS 3-11=-251/225, 2-12=-391/356

- NOTES-**
- Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 4-4-11, Interior(1) 4-4-11 to 9-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 263 lb uplift at joint 13, 315 lb uplift at joint 7, 128 lb uplift at joint 10, 109 lb uplift at joint 11, 151 lb uplift at joint 12, 124 lb uplift at joint 9 and 102 lb uplift at joint 8.



July 20,2020

Job	Truss	Truss Type	Qty	Ply	Roof	I42078553
P200304	L01	Common Supported Gable	1	1		

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Spring Hills, KS - 66083,

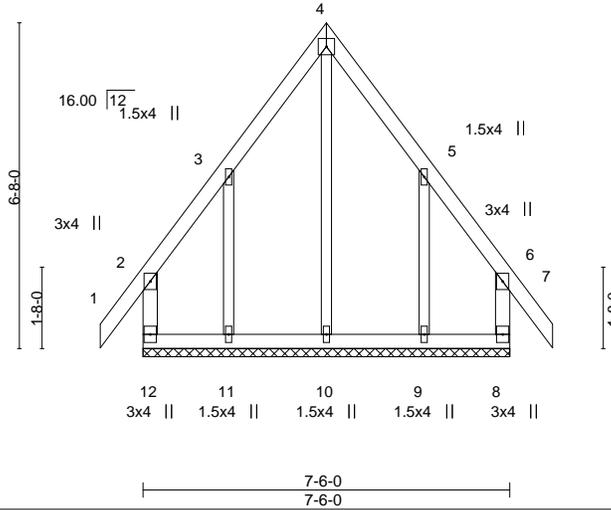
8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:26 2020 Page 1

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4x4 =

Scale = 1:46.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	-0.00	7	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(TL)	-0.01	7	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.44	Horz(TL)	-0.00	8	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-R					Weight: 40 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2
 OTHERS 2x3 SPF No.2

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. All bearings 7-6-0.
 (lb) - Max Horz 12=256(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) except 12=147(LC 8), 8=145(LC 12), 11=166(LC 9), 9=163(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) except 12=259(LC 18), 8=252(LC 17), 10=409(LC 12), 11=325(LC 17), 9=322(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-4=-232/362, 4-5=-234/363
 WEBS 4-10=-475/226, 3-11=-269/251, 5-9=-266/250

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 3-9-0, Corner(3) 3-9-0 to 6-9-0, Exterior(2) 6-9-0 to 8-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint 12, 145 lb uplift at joint 8, 166 lb uplift at joint 11 and 163 lb uplift at joint 9.



July 20, 2020

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Job	Truss	Truss Type	Qty	Ply	Roof	I42078554
P200304	L02	Common	2	1		

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Spring Hills, KS - 66083,

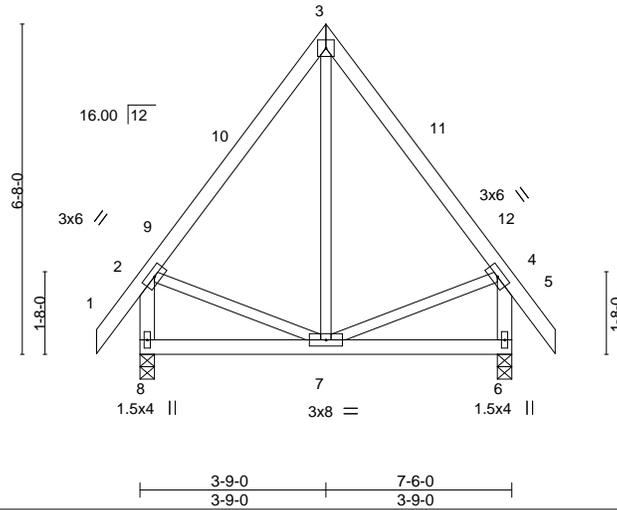
8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:26 2020 Page 1

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4x4 =

Scale = 1:46.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.39	Vert(LL) -0.01	6-7	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(TL) -0.01	6-7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.25	Horz(TL) -0.00	6	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-MP				Weight: 41 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 2-8,4-6: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=0-3-8, 6=0-3-8
 Max Horz 8=256(LC 11)
 Max Uplift 8=168(LC 12), 6=168(LC 12)
 Max Grav 8=396(LC 1), 6=396(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-262/271, 3-4=-262/271, 2-8=-368/322, 4-6=-368/322
 WEBS 3-7=-264/121

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-9-0, Exterior(2) 3-9-0 to 6-9-0, Interior(1) 6-9-0 to 8-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 168 lb uplift at joint 8 and 168 lb uplift at joint 6.



July 20,2020

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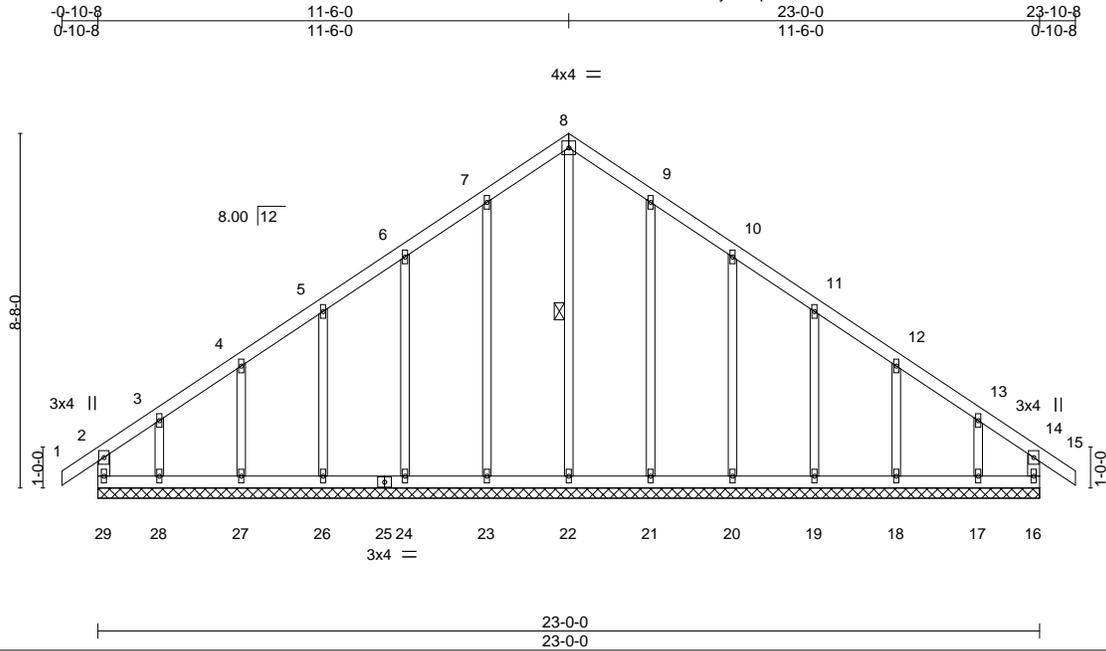
Job	Truss	Truss Type	Qty	Ply	Roof	142078555
P200304	G01	Common Supported Gable	1	1		

Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

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Scale = 1:56.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.08	Vert(LL)	-0.00	15	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(TL)	-0.01	15	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18	Horz(TL)	-0.00	16	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-R						
								Weight: 102 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2
 OTHERS 2x3 SPF No.2

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.
 WEBS 1 Row at midpt 8-22

REACTIONS. All bearings 23-0-0.
 (lb) - Max Horz 29=230(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 29, 16, 23, 24, 26, 27, 28, 21, 20, 19, 18, 17
 Max Grav All reactions 250 lb or less at joint(s) 29, 16, 22, 23, 24, 26, 27, 28, 21, 20, 19, 18, 17

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 7-8=-245/289, 8-9=-245/289

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 11-6-0, Corner(3) 11-6-0 to 14-6-0, Exterior(2) 14-6-0 to 23-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 16, 23, 24, 26, 27, 28, 21, 20, 19, 18, 17.



July 20,2020

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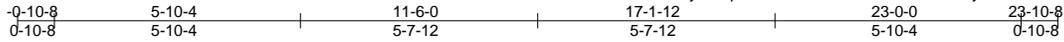


Job P200304	Truss G02	Truss Type Common	Qty 2	Ply 1	Roof Job Reference (optional)	142078556
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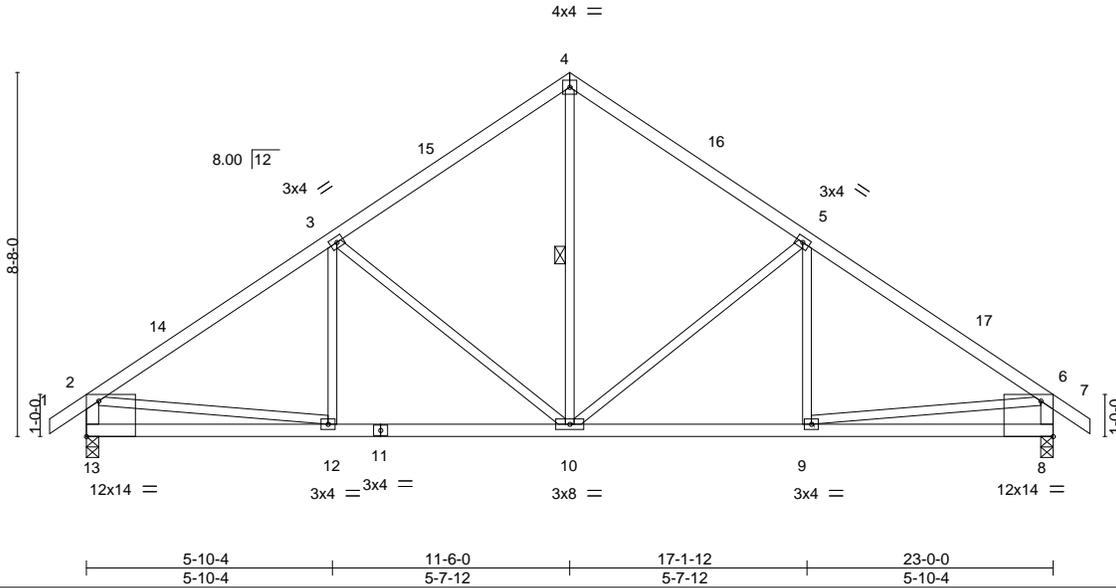


Plate Offsets (X, Y)--	[8:Edge,0-10-2], [8:0-1-12,0-0-0], [13:0-1-12,0-0-0], [13:Edge,0-10-2]
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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.39	Vert(LL) 0.07 10-12 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.32	Vert(TL) -0.10 9-10 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.52	Horz(TL) 0.03 8 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-MS		Weight: 96 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-5 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 7-3-14 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-13,6-8: 2x4 SPF No.2	WEBS 1 Row at midpt 4-10

REACTIONS. (size) 13=0-3-8, 8=0-3-8
 Max Horz 13=230(LC 11)
 Max Uplift 13=-440(LC 12), 8=-440(LC 12)
 Max Grav 13=1093(LC 1), 8=1093(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1309/894, 3-4=-972/736, 4-5=-972/736, 5-6=-1309/894, 2-13=-1036/677, 6-8=-1036/677
 BOT CHORD 12-13=-195/347, 10-12=-634/999, 9-10=-626/999, 8-9=-180/268
 WEBS 4-10=-656/586, 5-10=-403/355, 3-10=-403/355, 2-12=-449/765, 6-9=-450/765

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-6-0, Exterior(2) 11-6-0 to 14-6-0, Interior(1) 14-6-0 to 23-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=440, 8=440.



July 20,2020

Job P200304	Truss H01	Truss Type Common Structural Gable	Qty 1	Ply 1	Roof Job Reference (optional)	142078557
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Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:10:59 2020 Page 1

ID:TaBrkJGwHiTuvykGBpLdBz1ced_opdwFOWKpN3RZNKhnyO3xLi3f2J2eiTMCVYKywUtA

-0-10-8	5-8-7	11-2-5	16-8-4	22-2-3	27-8-1	33-4-8	34-3-0
0-10-8	5-8-7	5-5-15	5-5-15	5-5-15	5-5-15	5-8-7	0-10-8

4x4 =

Scale = 1:78.7

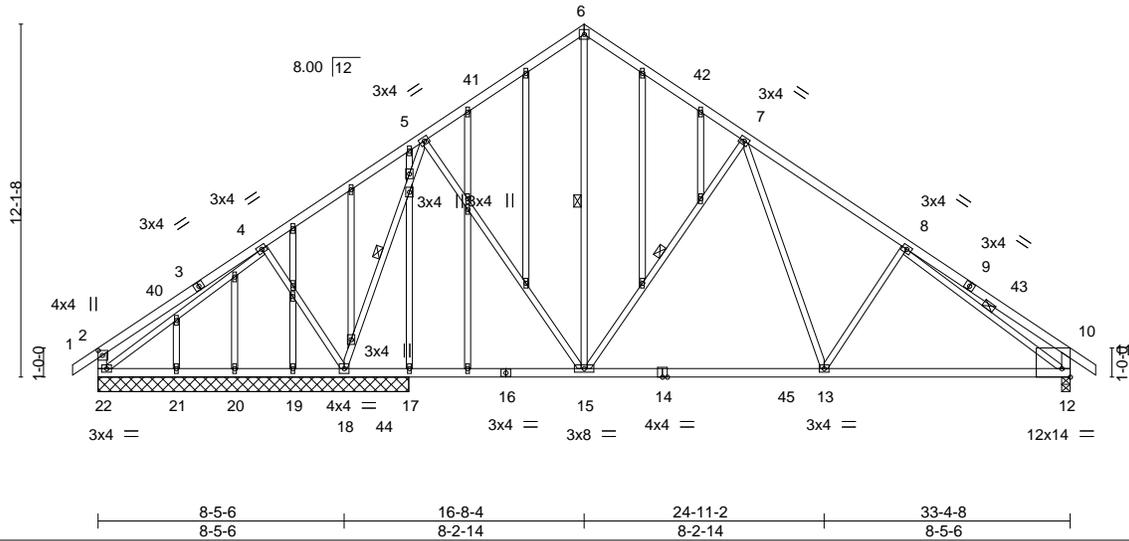


Plate Offsets (X,Y)--	[2:0-2-0,0-1-12], [10:0-1-12,0-1-3], [12:Edge,0-3-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.40	Vert(LL)	-0.18	13-15	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.59	Vert(TL)	-0.33	13-15	>830		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.82	Horz(TL)	0.04	12	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-MS						
								Weight: 186 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-5 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except*	WEBS 1 Row at midpt 6-15, 7-15, 5-18, 8-12
OTHERS 2-22,10-12: 2x4 SPF No.2	
2x3 SPF No.2	

REACTIONS. All bearings 10-8-0 except (jt=length) 12=0-3-8.
 (lb) - Max Horz 22=-327(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 22, 17 except 18=-493(LC 12), 12=-454(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 17, 19, 20, 21 except 18=1414(LC 1), 22=360(LC 21), 12=1153(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-263/173, 4-5=-97/256, 5-6=-699/540, 6-7=-700/537, 7-8=-1222/828,
 8-10=-463/394, 2-22=-343/210, 10-12=-464/339
 BOT CHORD 21-22=-187/251, 20-21=-187/251, 19-20=-187/251, 18-19=-187/251, 17-18=-115/340,
 15-17=-115/340, 13-15=-313/809, 12-13=-520/1050
 WEBS 6-15=-442/400, 7-15=-591/448, 7-13=-411/421, 8-13=-263/153, 5-15=-180/432,
 5-18=-1192/601, 4-18=-355/203, 8-12=-972/398

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-5-9, Interior(1) 2-5-9 to 16-8-4, Exterior(2) 16-8-4 to 20-0-5, Interior(1) 20-0-5 to 34-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 17 except (jt=lb) 18=493, 12=454.



July 20,2020

Job P200304	Truss H02	Truss Type Common	Qty 3	Ply 1	Roof 142078558
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

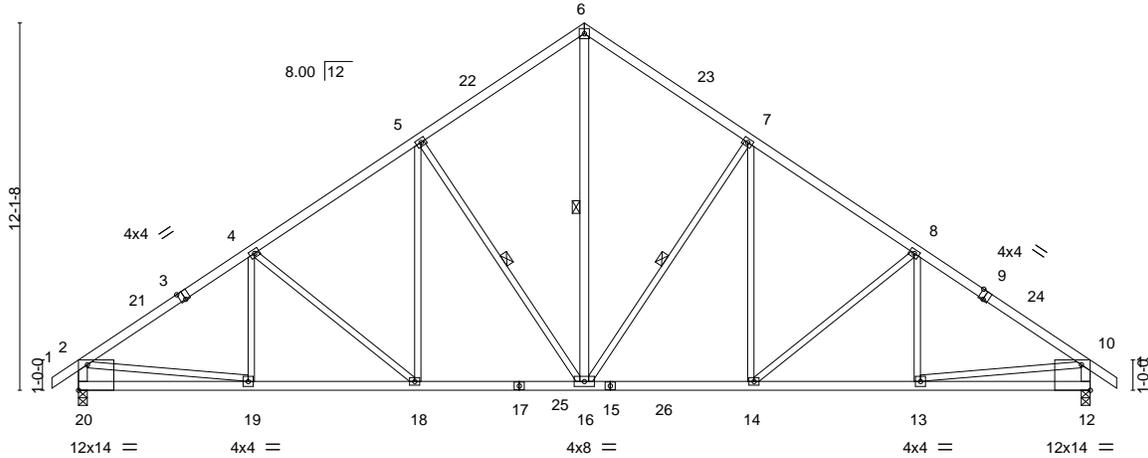
8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:00 2020 Page 1

ID:TaBrkdJGwHiTuvykGBpLdBz1ced-S_N07bO856Vw3iyWFUTpwHTWXT112Yyri0x25mywUt9

0-10-8	5-8-7	11-2-5	16-8-4	22-2-3	27-8-1	33-4-8	34-3-0
0-10-8	5-8-7	5-5-15	5-5-15	5-5-15	5-5-15	5-8-7	0-10-8

4x4 =

Scale = 1:75.6



5-8-7	11-2-5	16-8-4	22-2-3	27-8-1	33-4-8
5-8-7	5-5-15	5-5-15	5-5-15	5-5-15	5-8-7

Plate Offsets (X, Y)-- [3:0-2-0,Edge], [9:0-2-0,Edge], [12:Edge,0-10-2], [12:0-1-12,0-0-0], [20:0-1-12,0-0-0], [20:Edge,0-10-2]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.39	Vert(LL)	0.12 14-16	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.46	Vert(TL)	-0.22 14-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.59	Horz(TL)	0.07 12	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-MS					Weight: 156 lb	FT = 20%

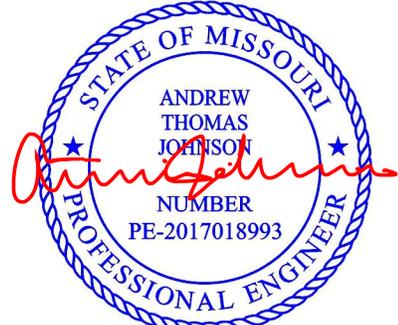
LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 6-16,2-20,10-12: 2x4 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-10-11 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-3-1 oc bracing.
 WEBS 1 Row at midpt 6-16, 7-16, 5-16

REACTIONS. (size) 20=0-3-8, 12=0-3-8
 Max Horz 20=-327(LC 10)
 Max Uplift 20=-622(LC 12), 12=-622(LC 12)
 Max Grav 20=1560(LC 1), 12=1560(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2000/1198, 4-5=-1750/1120, 5-6=-1381/976, 6-7=-1381/976, 7-8=-1750/1120,
 8-10=-2000/1198, 2-20=-1500/885, 10-12=-1500/885
 BOT CHORD 19-20=-286/461, 18-19=-880/1571, 16-18=-691/1370, 14-16=-685/1370, 13-14=-876/1571,
 12-13=-183/297
 WEBS 6-16=-925/1052, 7-16=-590/460, 7-14=-320/329, 8-14=-290/247, 5-16=-590/460,
 5-18=-320/329, 4-18=-290/247, 2-19=-699/1304, 10-13=-700/1304

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-5-9, Interior(1) 2-5-9 to 16-8-4, Exterior(2) 16-8-4 to 20-0-5, Interior(1) 20-0-5 to 34-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 3x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=622, 12=622.



July 20,2020

Job P200304	Truss H03	Truss Type Common Girder	Qty 1	Ply 3	Roof Job Reference (optional)	142078559
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Scale = 1:75.5

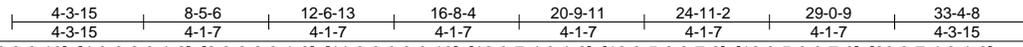
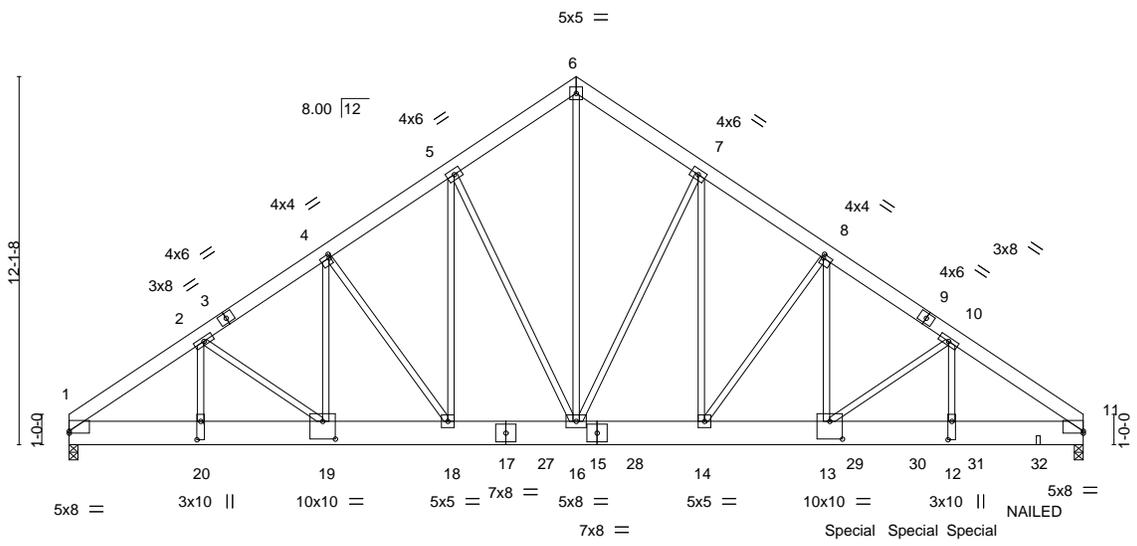


Plate Offsets (X,Y)--	[1:0-0,0-0-13], [4:0-0,8,0-1-8], [8:0-0,8,0-1-8], [11:0-0,0,0-0-13], [12:0-7,4,0-1-8], [13:0-5,0,0-7-0], [19:0-5,0,0-7-0], [20:0-7,4,0-1-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.30	Vert(LL)	0.13 12-13	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.76	Vert(TL)	-0.23 12-13	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.84	Horz(TL)	0.04 11	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-MS						
								Weight: 726 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x10 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (size) 1=0-3-8, 11=0-3-8 (req. 0-4-0)
 Max Horz 1=281(LC 7)
 Max Uplift 1=1103(LC 8), 11=3225(LC 8)
 Max Grav 1=2821(LC 1), 11=7708(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-4132/1618, 2-4=-4209/1705, 4-5=-3971/1659, 5-6=-3747/1643, 6-7=-3755/1646,
 7-8=-5417/2227, 8-10=-8621/3430, 10-11=-11152/4611
 BOT CHORD 1-20=-1268/3338, 19-20=-1268/3338, 18-19=-1267/3470, 16-18=-1115/3212,
 14-16=-1593/4429, 13-14=-2716/7173, 12-13=-3726/9100, 11-12=-3726/9100
 WEBS 6-16=-1669/3698, 7-16=-3136/1315, 7-14=-1449/3514, 8-14=-4834/1978,
 8-13=-2156/5387, 10-13=-2489/1282, 10-12=-1540/2958, 5-16=-538/422, 5-18=-309/330,
 4-18=-456/268, 2-19=-195/269, 2-20=-343/105

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x10 - 5 rows staggered at 0-4-0 oc.
 Webs connected as follows: 2x3 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - WARNING: Required bearing size at joint(s) 11 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1103, 11=3225.
 - "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3813 lb down and 1300 lb up at 25-9-15, and 1226 lb down and 482 lb up at 27-10-12, and 2352 lb down and 1397 lb up at 29-9-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



July 20,2020

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job P200304	Truss H03	Truss Type Common Girder	Qty 1	Ply 3	Roof Job Reference (optional)	I42078559
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:11 2020 Page 2
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LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-70, 6-11=-70, 21-24=-20
 Concentrated Loads (lb)
 Vert: 29=-3813(B) 30=-1226(B) 31=-2352(B) 32=-134(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof
P200304	M02	Roof Special Girder	1	4	

I42078560

Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:32 2020 Page 2

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NOTES-

- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 562 lb down and 190 lb up at 1-10-12, 562 lb down and 190 lb up at 3-10-12, 562 lb down and 190 lb up at 5-10-12, 562 lb down and 190 lb up at 7-10-12, 562 lb down and 190 lb up at 9-10-12, 562 lb down and 190 lb up at 11-10-12, 562 lb down and 190 lb up at 13-10-12, and 916 lb down and 361 lb up at 15-10-12, and 916 lb down and 361 lb up at 17-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-7=-70, 8-15=-20

Concentrated Loads (lb)

Vert: 13=-562(F) 9=-916(F) 16=-562(F) 17=-562(F) 18=-562(F) 19=-562(F) 20=-562(F) 21=-562(F) 22=-916(F)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Chesterfield, MO 63017

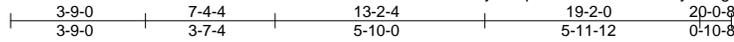
Job P200304	Truss M01	Truss Type Roof Special Supported Gable	Qty 1	Ply 1	Roof Job Reference (optional)	142078561
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:30 2020 Page 1

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4x4 =

Scale: 3/16"=1'

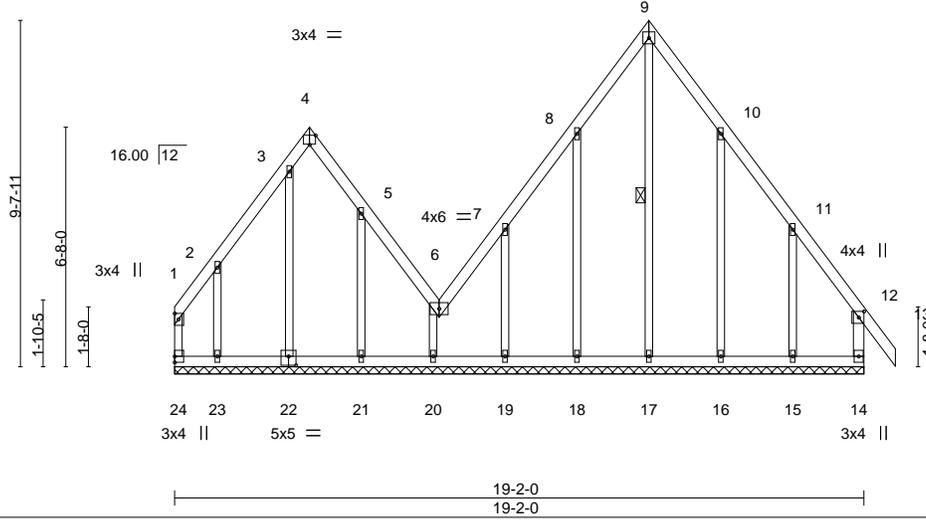


Plate Offsets (X,Y)--	[4:Edge,0-3-3], [12:0-2-0,0-1-12], [22:0-2-8,0-3-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL) -0.00 13 n/r 120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(TL) -0.01 13 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.41	Horz(TL) -0.01 14 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-R		Weight: 99 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 12-14: 2x4 SPF No.2
 OTHERS 2x3 SPF No.2

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.
 WEBS 1 Row at midpt 9-17

REACTIONS. All bearings 19-2-0.
 (lb) - Max Horz 24=-331(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 17, 21, 22 except 24=-308(LC 10), 14=-183(LC 11), 18=-127(LC 12), 19=-148(LC 12), 20=-154(LC 10), 23=-276(LC 12), 16=-105(LC 12), 15=-247(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 18, 22, 16 except 24=293(LC 11), 14=345(LC 17), 17=488(LC 12), 19=250(LC 17), 20=363(LC 18), 21=283(LC 17), 23=379(LC 10), 15=370(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 8-9=-330/387, 9-10=-329/386, 12-14=-269/120
 WEBS 9-17=-533/384, 6-20=-324/194, 2-23=-311/307, 11-15=-278/276

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-2 to 3-2-2, Exterior(2) 3-2-2 to 3-9-0, Corner(3) 3-9-0 to 6-9-0, Exterior(2) 6-9-0 to 13-2-4, Corner(3) 13-2-4 to 16-2-4, Exterior(2) 16-2-4 to 20-0-8 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 8) Gable studs spaced at 2-0-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 21, 22 except (jt=lb) 24=308, 14=183, 18=127, 19=148, 20=154, 23=276, 16=105, 15=247.



July 20,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

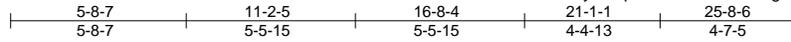
Job P200304	Truss H04	Truss Type Common	Qty 7	Ply 1	Roof Job Reference (optional)	I42078562
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:12 2020 Page 1

ID:TaBrkdjGwHiTuvykGBpLdBz1ced-6I5YeiYgGo0DVYtqy0hdQpZ?I5Psv9cStrhV3ywUsz



4x6 =

Scale = 1:74.4

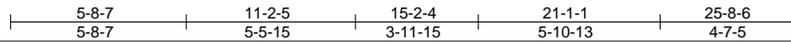
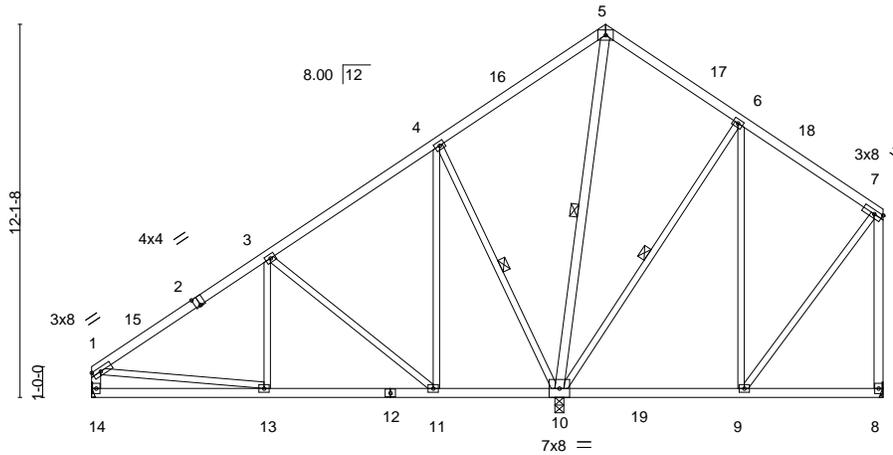


Plate Offsets (X,Y)-- [2:0-2-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.42	Vert(LL)	0.14	9-10	>879	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.64	Vert(TL)	-0.18	9-10	>704		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.87	Horz(TL)	0.01	8	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-MS						
								Weight: 133 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 5-10,1-14,7-8: 2x4 SPF No.2

BRACING-

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

REACTIONS.

(size) 14=Mechanical, 10=0-3-8, 8=Mechanical
 Max Horz 14=391(LC 11)
 Max Uplift 14=-192(LC 12), 10=-761(LC 12), 8=-243(LC 12)
 Max Grav 14=576(LC 21), 10=1814(LC 1), 8=750(LC 22)

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

TOP CHORD 1-3=-652/379, 3-4=-263/184, 4-5=-109/276, 6-7=-367/309, 1-14=-527/287, 7-8=-591/324
 BOT CHORD 13-14=-422/458, 11-13=-452/510, 9-10=-207/261
 WEBS 3-11=-428/387, 4-11=-360/320, 4-10=-599/497, 5-10=-475/138, 6-10=-554/529, 6-9=-448/392, 1-13=-102/304, 7-9=-227/379

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 16-8-4, Exterior(2) 16-8-4 to 19-8-4, Interior(1) 19-8-4 to 25-6-10 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=192, 10=761, 8=243.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-5=-70, 5-7=-70, 10-14=-20, 8-10=-95(F=-75)



July 20,2020

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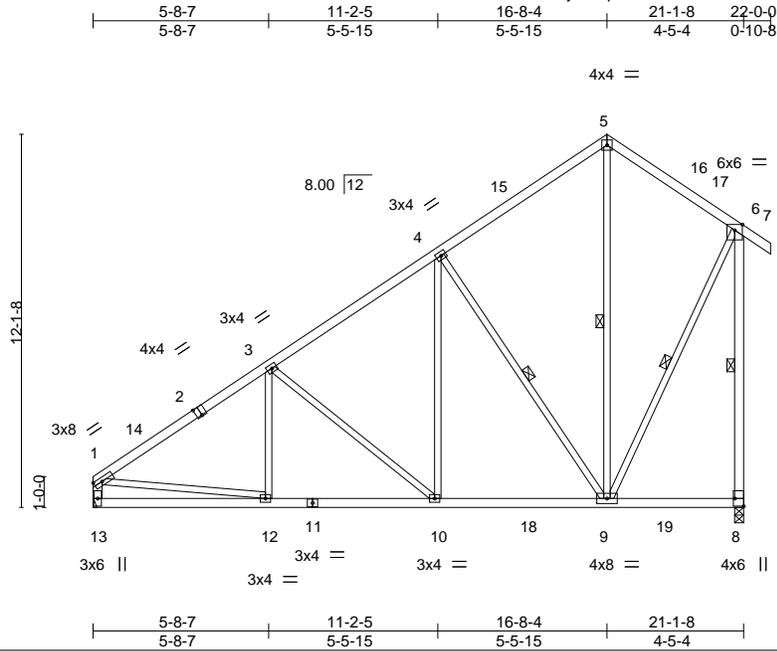
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job P200304	Truss H05	Truss Type Common	Qty 2	Ply 1	Roof Job Reference (optional)	142078563
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:13 2020 Page 1

ID:TaBrkdJGwHITuvykGBpLdBz1ced-aUfws1Y116847iSOWjCsyOWgtiWebOZmhXbE1WyyUsy



Scale = 1:74.4

Plate Offsets (X, Y)--	[2:0-2-0,Edge], [8:Edge,0-3-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.67	Vert(LL) 0.07 9-10 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.32	Vert(TL) -0.10 9-10 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.73	Horz(TL) 0.02 8 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-MS		Weight: 110 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-2 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-13 oc bracing.
WEBS 2x3 SPF No.2 *Except* 1-13,6-8: 2x4 SPF No.2	WEBS 1 Row at midpt 4-9, 5-9, 6-8, 6-9

REACTIONS. (size) 13=Mechanical, 8=0-3-8
 Max Horz 13=449(LC 11)
 Max Uplift 13=-365(LC 12), 8=-407(LC 12)
 Max Grav 13=936(LC 1), 8=1011(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-1183/849, 3-4=-857/688, 4-5=-481/482, 5-6=-493/495, 1-13=-880/599, 6-8=-974/748
 BOT CHORD 12-13=-586/680, 10-12=-926/1017, 9-10=-652/725
 WEBS 3-10=-377/354, 4-10=-449/370, 4-9=-624/564, 5-9=-428/275, 1-12=-464/722, 6-9=-549/635

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 16-8-4, Exterior(2) 16-8-4 to 19-8-4, Interior(1) 19-8-4 to 22-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BC DL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=365, 8=407.



July 20,2020

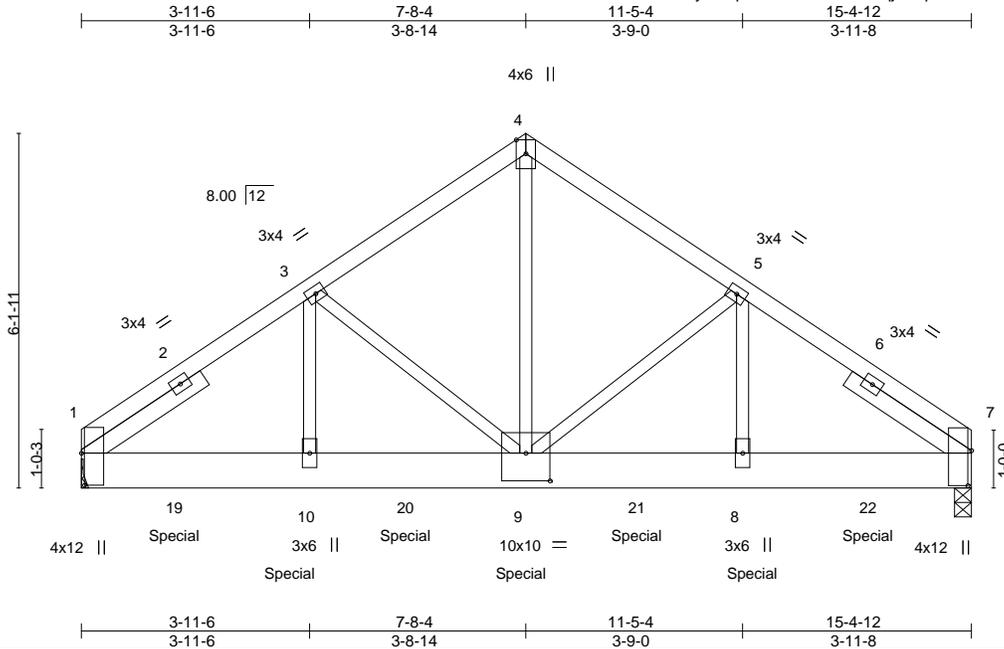
Job P200304	Truss N03	Truss Type Common Girder	Qty 1	Ply 2	Roof Job Reference (optional)	142078564
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:36 2020 Page 1

ID:TaBrkdJGwHiTuvykGBpLdBz1ced-PvYdhvqjdA2pNEIRM27FOtzi_zILUq?8zcgylgywUsb



Scale = 1:39.7

Plate Offsets (X,Y)--	[1:0-6-11,0-0-10], [7:0-7-5,0-0-12], [9:0-5-0,0-5-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.29	Vert(LL) 0.06 9-10 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.55	Vert(TL) -0.11 9-10 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.62	Horz(TL) 0.02 7 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-MS		Weight: 159 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x8 SPF No.2
 WEBS 2x3 SPF No.2
 SLIDER Left 2x4 SPF No.2 - 2-6-0, Right 2x4 SPF No.2 -x 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-7-3 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=Mechanical, 7=0-3-8
 Max Horz 1=124(LC 7)
 Max Uplift 1=1304(LC 8), 7=1300(LC 8)
 Max Grav 1=3833(LC 1), 7=3819(LC 1)

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

TOP CHORD 1-3=-4572/1578, 3-4=-3582/1274, 4-5=-3583/1274, 5-7=-4593/1585
 BOT CHORD 1-10=-1231/3722, 9-10=-1231/3722, 8-9=-1238/3742, 7-8=-1238/3742
 WEBS 3-10=-394/1133, 3-9=-1039/409, 4-9=-1296/3585, 5-9=-1062/417, 5-8=-401/1153

NOTES-

- 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.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x3 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1304, 7=1300.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 730 lb down and 239 lb up at 1-8-0, 730 lb down and 239 lb up at 3-8-0, 730 lb down and 239 lb up at 5-8-0, 730 lb down and 239 lb up at 7-8-0, 730 lb down and 239 lb up at 9-8-0, and 730 lb down and 239 lb up at 11-8-0, and 730 lb down and 239 lb up at 13-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

July 20,2020

Continued on page 2

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job P200304	Truss N03	Truss Type Common Girder	Qty 1	Ply 2	Roof Job Reference (optional)	I42078564
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:36 2020 Page 2
ID:TaBrkdJGwHiTuvykGBpLdBz1ced-PvYdhvqjdA2pNEIRM27FOtzi_zILUq?8zcgylgywUsb

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-4=-70, 4-7=-70, 11-15=-95(F=-75)
 - Concentrated Loads (lb)
 - Vert: 10=-730(B) 9=-730(B) 8=-730(B) 19=-730(B) 20=-730(B) 21=-730(B) 22=-730(B)

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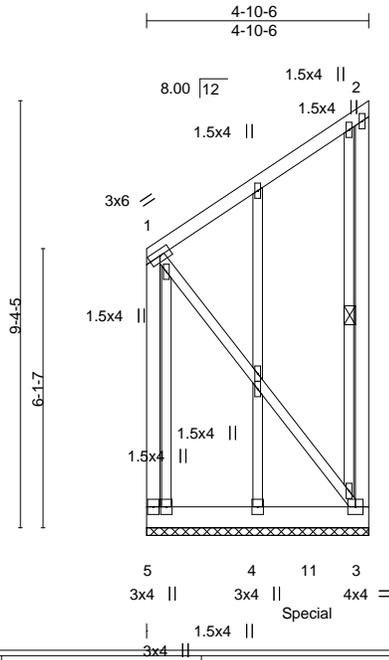
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof	I42078565
P200304	N04	GABLE	1	1		
Job Reference (optional)						

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:36 2020 Page 1

ID: TaBrkdJGwHiTuvykGBpLdBz1ced-PvYdhvqjdA2pNEIRM27FOtzf5zLmUuD8zcgylgywUsb



Scale = 1:50.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.48	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.33	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.35	Horz(TL)	-0.00	3	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-P					Weight: 54 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x6 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 2-3: 2x4 SPF 1650F 1.5E, 1-3: 2x3 SPF No.2
 OTHERS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-10-6 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 2-3

REACTIONS.

(size) 5=4-10-6, 3=4-10-6, 4=4-10-6
 Max Horz 5=357(LC 5)
 Max Uplift 5=-205(LC 17), 3=-537(LC 5), 4=-238(LC 4)
 Max Grav 5=426(LC 7), 3=574(LC 25), 4=559(LC 1)

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

TOP CHORD 1-5=-375/188
 BOT CHORD 4-5=-332/204, 3-4=-332/204
 WEBS 1-3=-267/349

NOTES-

- Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=205, 3=537, 4=238.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 739 lb down and 410 lb up at 3-7-2 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-70, 3-5=-20
 Concentrated Loads (lb)
 Vert: 11=-739(F)



July 20, 2020

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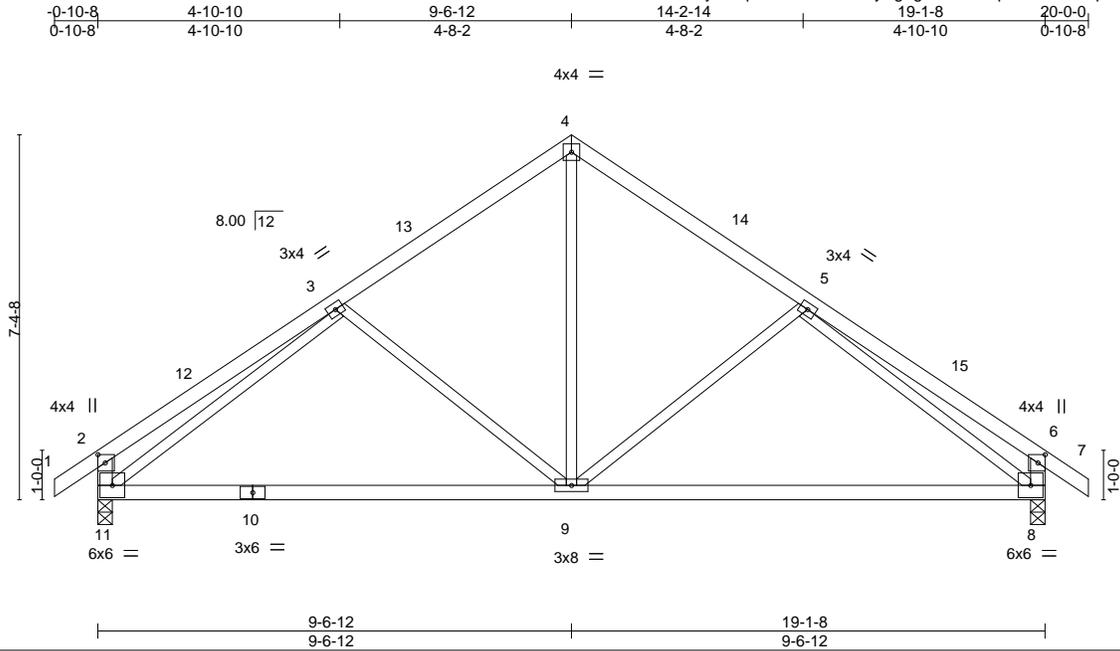
Job P200304	Truss K02	Truss Type Common	Qty 1	Ply 1	Roof Job Reference (optional)	142078567
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

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ID:TaBrkdJGwHiTuvykGBpLdBz1ced-HPGiySgZgBPfJFCx5pOCM7wUkkpRxxXE_50mOxywUso



Scale = 1:46.3

Plate Offsets (X,Y)--	[2:0-2-0,0-1-12], [6:0-2-0,0-1-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.26	Vert(LL) 0.30 9-11 >747 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.74	Vert(TL) -0.39 8-9 >576 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.76	Horz(TL) 0.03 8 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-MS		Weight: 77 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-11,6-8: 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-6-10 oc bracing.

REACTIONS. (size) 11=0-3-8, 8=0-3-8
Max Horz 11=-199(LC 10)
Max Uplift 11=-372(LC 12), 8=-372(LC 12)
Max Grav 11=919(LC 1), 8=919(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-359/416, 3-4=-816/692, 4-5=-816/692, 5-6=-359/416, 2-11=-383/340, 6-8=-383/340
BOT CHORD 9-11=-474/766, 8-9=-464/766
WEBS 4-9=-629/483, 5-9=-255/149, 3-9=-255/149, 3-11=-706/286, 5-8=-706/286

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 9-6-12, Exterior(2) 9-6-12 to 12-6-12, Interior(1) 12-6-12 to 20-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=372, 8=372.



July 20,2020

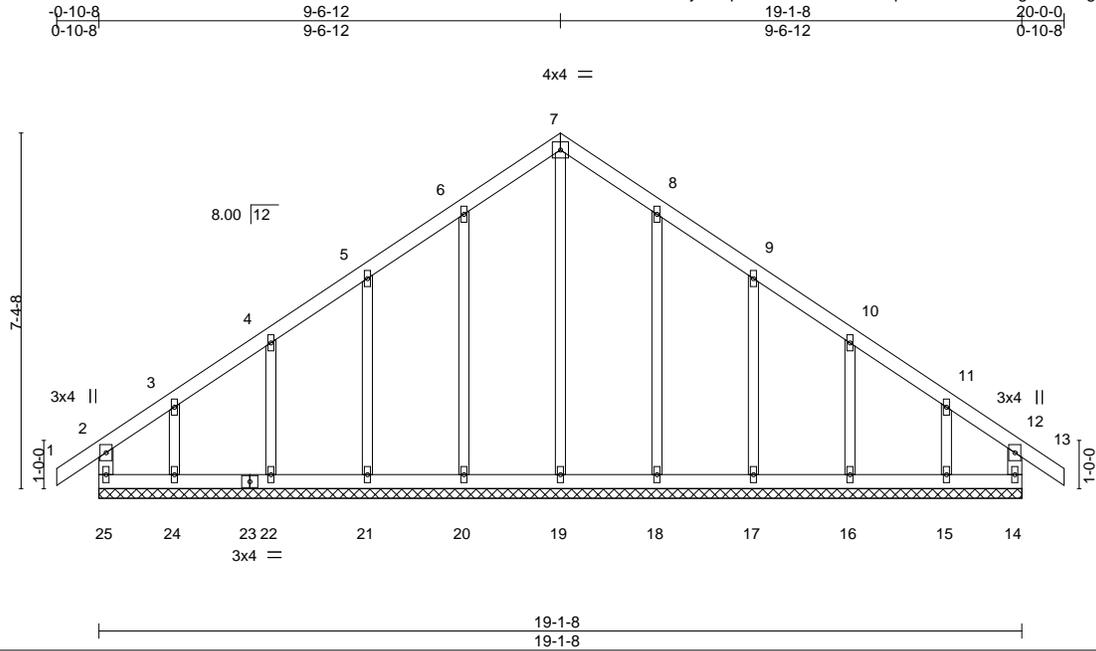
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof	I42078568
P200304	K03	Common Supported Gable	1	1		
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,						8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:25 2020 Page 1
ID:TaBrkdJGwHiTuvykGBpLdBz1ced-EoOSN8iqCofNZYMKDEQgRY?iBYgUPy6XSOVtSpywUsm						Job Reference (optional)



Scale = 1:47.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	-0.00 13	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(TL)	-0.00 13	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.24	Horz(TL)	-0.00 14	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-R					Weight: 80 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 19-1-8.
 (lb) - Max Horz 25=199(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 25, 14, 20, 21, 22, 24, 18, 17, 16, 15
 Max Grav All reactions 250 lb or less at joint(s) 25, 14, 19, 20, 21, 22, 24, 18, 17, 16, 15

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 9-6-12, Corner(3) 9-6-12 to 12-6-12, Exterior(2) 12-6-12 to 20-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 14, 20, 21, 22, 24, 18, 17, 16, 15.



July 20,2020

Job P200304	Truss H06	Truss Type GABLE	Qty 1	Ply 1	Roof Job Reference (optional)	142078569
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:14 2020 Page 1

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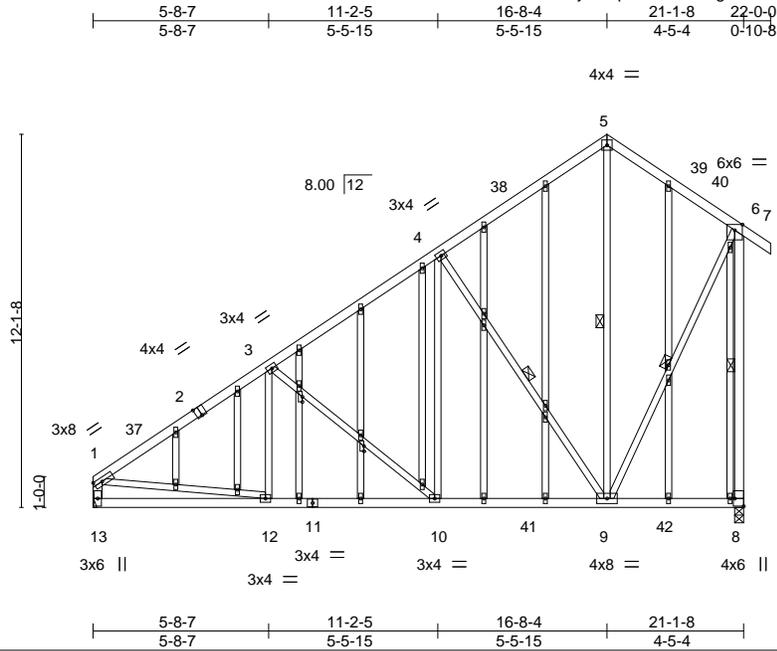


Plate Offsets (X,Y)--	[2:0-2-0,Edge], [8:Edge,0-3-8], [22:0-2-0,0-0-0], [25:0-2-0,0-0-0]
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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.67	Vert(LL) 0.07 9-10 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.32	Vert(TL) -0.10 9-10 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.73	Horz(TL) 0.02 8 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-MS		Weight: 159 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-2 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-13 oc bracing.
WEBS 2x3 SPF No.2 *Except*	WEBS 1 Row at midpt 4-9, 5-9, 6-8, 6-9
OTHERS 1-13,6-8: 2x4 SPF No.2	
2x3 SPF No.2	

REACTIONS. (size) 13=Mechanical, 8=0-3-8
 Max Horz 13=449(LC 11)
 Max Uplift 13=-365(LC 12), 8=-407(LC 12)
 Max Grav 13=936(LC 1), 8=1011(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-1183/849, 3-4=-857/688, 4-5=-481/482, 5-6=-493/495, 1-13=-880/599, 6-8=-974/748
 BOT CHORD 12-13=-586/680, 10-12=-926/1017, 9-10=-652/725
 WEBS 3-10=-377/354, 4-10=-449/370, 4-9=-624/564, 5-9=-428/275, 1-12=-464/722, 6-9=-549/635

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 16-8-4, Exterior(2) 16-8-4 to 19-8-4, Interior(1) 19-8-4 to 22-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=365, 8=407.



July 20,2020

Job	Truss	Truss Type	Qty	Ply	Roof	I42078570
P200304	VK01	GABLE	1	1		

Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

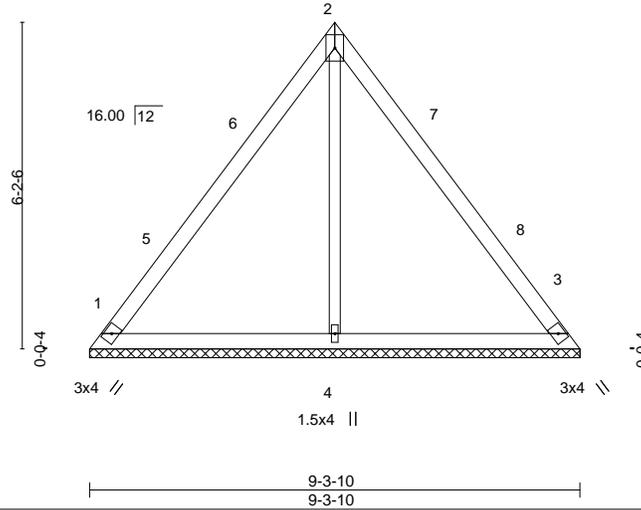
8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:49 2020 Page 1

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4x6 ||

Scale = 1:43.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.32	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(TL)	0.00	3	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-S					Weight: 32 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 OTHERS 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=9-3-10, 3=9-3-10, 4=9-3-10
 Max Horz 1=-187(LC 10)
 Max Uplift 1=-46(LC 12), 3=-46(LC 12), 4=-4(LC 12)
 Max Grav 1=251(LC 1), 3=251(LC 1), 4=282(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-255/103

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-3-8 to 3-3-8, Interior(1) 3-3-8 to 4-7-13, Exterior(2) 4-7-13 to 7-7-13, Interior(1) 7-7-13 to 9-0-2 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



July 20,2020

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job P200304	Truss VK02	Truss Type Valley	Qty 1	Ply 1	Roof 142078571
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

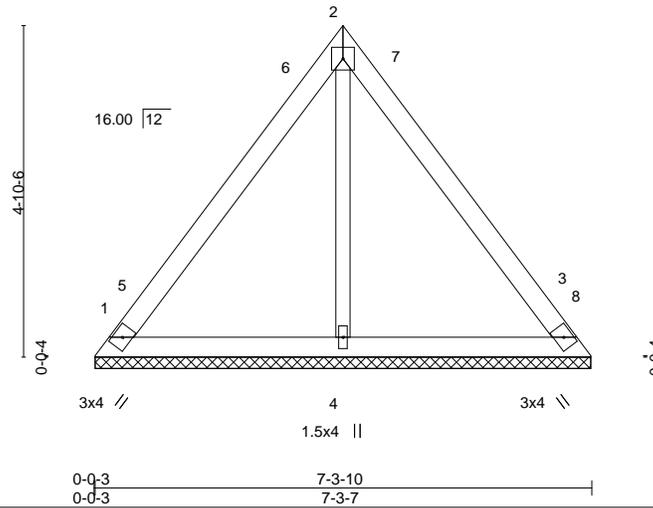
8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:50 2020 Page 1

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4x4 =

Scale = 1:33.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.31	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(TL)	0.00	3	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-P					Weight: 25 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 OTHERS 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=7-3-4, 3=7-3-4, 4=7-3-4
 Max Horz 1=144(LC 10)
 Max Uplift 1=53(LC 12), 3=53(LC 12)
 Max Grav 1=206(LC 1), 3=206(LC 1), 4=199(LC 3)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-3-8 to 3-3-8, Interior(1) 3-3-8 to 3-7-13, Exterior(2) 3-7-13 to 6-7-13, Interior(1) 6-7-13 to 7-0-2 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



July 20,2020

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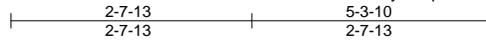
Job P200304	Truss VK03	Truss Type Valley	Qty 1	Ply 1	Roof Job Reference (optional)	142078572
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

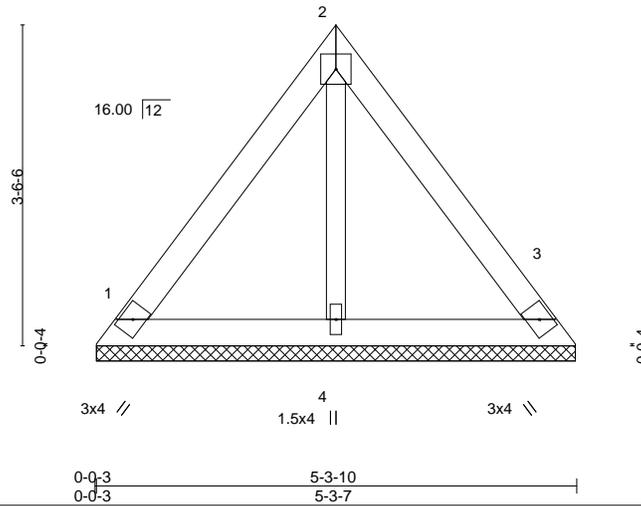
8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:50 2020 Page 1

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4x4 =

Scale = 1:25.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(TL)	0.00	3	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-P					Weight: 17 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 OTHERS 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-3-10 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-3-4, 3=5-3-4, 4=5-3-4
 Max Horz 1=-101(LC 10)
 Max Uplift 1=-37(LC 12), 3=-37(LC 12)
 Max Grav 1=145(LC 1), 3=145(LC 1), 4=140(LC 3)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



July 20,2020

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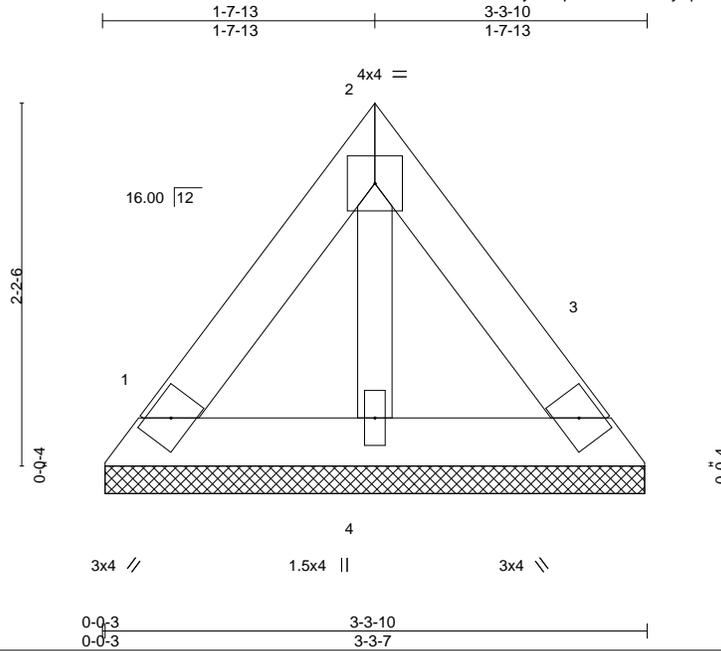
Job P200304	Truss VK04	Truss Type Valley	Qty 1	Ply 1	Roof Job Reference (optional)	142078573
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:51 2020 Page 1

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Scale = 1:13.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(TL)	0.00	3	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-P					Weight: 10 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 OTHERS 2x3 SPF No.2

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

REACTIONS. (size) 1=3-3-4, 3=3-3-4, 4=3-3-4
 Max Horz 1=-58(LC 10)
 Max Uplift 1=-21(LC 12), 3=-21(LC 12)
 Max Grav 1=83(LC 1), 3=83(LC 1), 4=80(LC 3)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



July 20, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

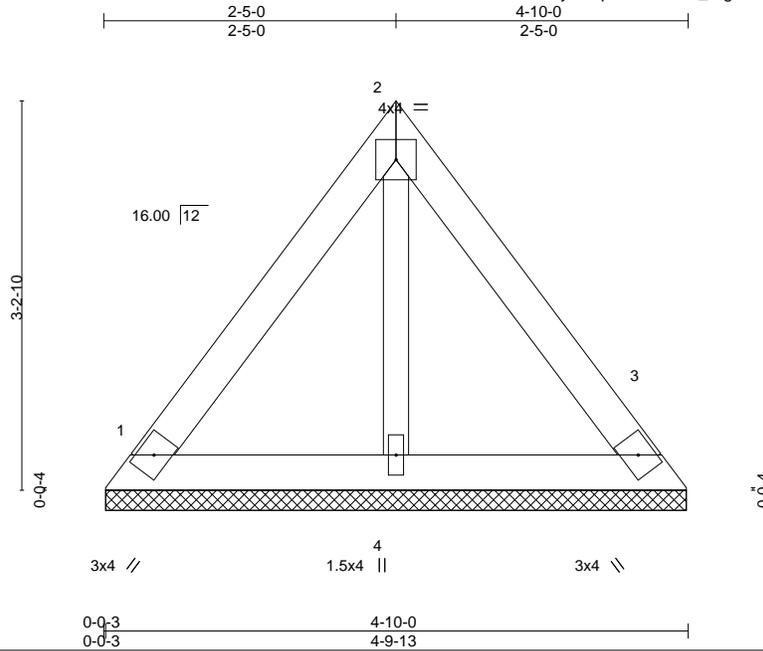
Job P200304	Truss VM02	Truss Type Valley	Qty 1	Ply 1	Roof Job Reference (optional)	142078575
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:52 2020 Page 1

ID:TaBrkdJGwHiTuvykGBpLdBz1ced-x_Wg2N1r53YliwWIPP?1EdUXQu6ECKVf5YovlywUsL



Scale = 1:19.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(TL)	0.00	3	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-P					Weight: 16 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x3 SPF No.2

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

REACTIONS. (size) 1=4-9-10, 3=4-9-10, 4=4-9-10
Max Horz 1=91(LC 10)
Max Uplift 1=33(LC 12), 3=33(LC 12)
Max Grav 1=130(LC 1), 3=130(LC 1), 4=126(LC 3)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



July 20,2020

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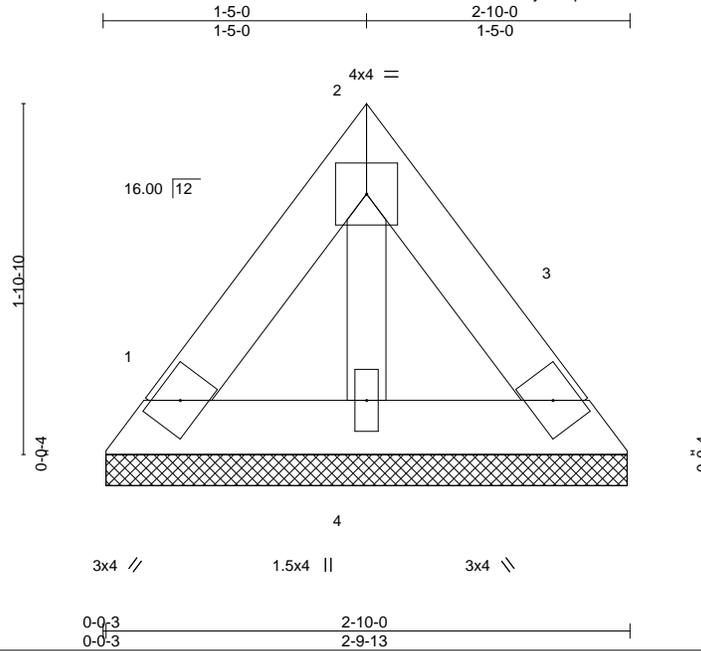
Job P200304	Truss VM03	Truss Type Valley	Qty 1	Ply 1	Roof Job Reference (optional)	142078576
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:53 2020 Page 1

ID:TaBrkdJGwHiTuyykGBpLdBz1ced-PB42Fj1OcPBpwsVis7wEaSAgkqEnzfkfulHLSBywUsk



Scale = 1:12.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.03	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(TL)	0.00	3	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-P					Weight: 9 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x3 SPF No.2

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

REACTIONS. (size) 1=2-9-10, 3=2-9-10, 4=2-9-10
Max Horz 1=-48(LC 10)
Max Uplift 1=-18(LC 12), 3=-18(LC 12)
Max Grav 1=69(LC 1), 3=69(LC 1), 4=67(LC 3)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



July 20,2020

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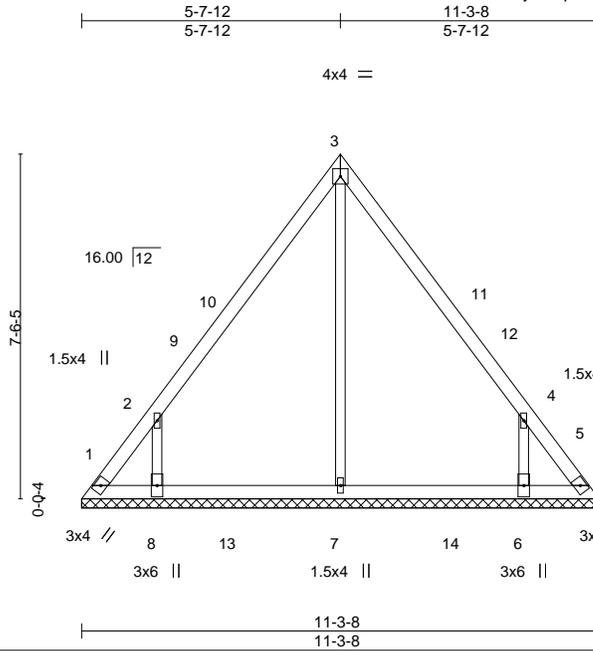
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job P200304	Truss VM04	Truss Type GABLE	Qty 1	Ply 1	Roof Job Reference (optional)	I42078577
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:54 2020 Page 1

ID:TaBrkJGwHiTuvykGBpLdBz1ced-tNeQT320NiJGX04vPqRT7fio7EX5i4ro6P1v_eywUsJ



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.25	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(TL)	0.00	5	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-S					Weight: 41 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 11-3-8.
 (lb) - Max Horz 1=-229(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) except 1=-189(LC 10), 5=-164(LC 11), 8=-272(LC 12), 6=-272(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=311(LC 17), 8=477(LC 17), 6=476(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-279/249, 4-5=-279/218
 WEBS 2-8=-473/434, 4-6=-473/434

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-3-8 to 3-3-8, Interior(1) 3-3-8 to 5-7-12, Exterior(2) 5-7-12 to 8-7-12, Interior(1) 8-7-12 to 11-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 189 lb uplift at joint 1, 164 lb uplift at joint 5, 272 lb uplift at joint 8 and 272 lb uplift at joint 6.



July 20,2020

Job P200304	Truss VM05	Truss Type GABLE	Qty 1	Ply 1	Roof 142078578
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Spring Hills, KS - 66083,

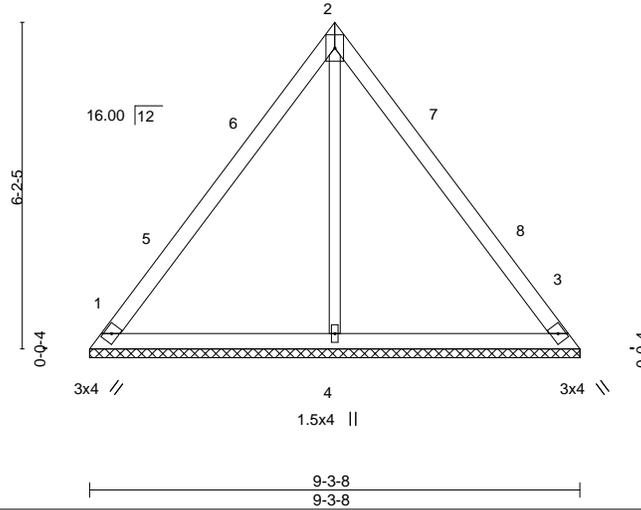
8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:54 2020 Page 1

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4x6 ||

Scale = 1:43.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.32	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(TL)	0.00	3	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-S					Weight: 32 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 OTHERS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=9-3-8, 3=9-3-8, 4=9-3-8
 Max Horz 1=-186(LC 10)
 Max Uplift 1=-46(LC 12), 3=-46(LC 12), 4=-4(LC 12)
 Max Grav 1=251(LC 1), 3=251(LC 1), 4=282(LC 1)

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

TOP CHORD 1-2=-255/103

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-3-8 to 3-3-8, Interior(1) 3-3-8 to 4-7-12, Exterior(2) 4-7-12 to 7-7-12, Interior(1) 7-7-12 to 9-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 1, 46 lb uplift at joint 3 and 4 lb uplift at joint 4.



July 20,2020

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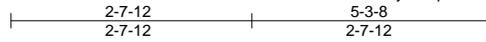
Job P200304	Truss VM07	Truss Type Valley	Qty 1	Ply 1	Roof Job Reference (optional)	I42078580
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

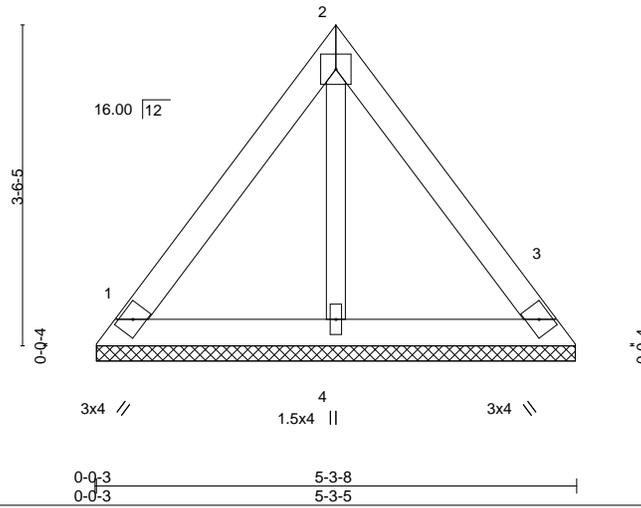
8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:56 2020 Page 1

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4x4 =

Scale = 1:25.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(TL)	0.00	3	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-P					Weight: 17 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 OTHERS 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-3-2, 3=5-3-2, 4=5-3-2
 Max Horz 1=-101(LC 10)
 Max Uplift 1=-37(LC 12), 3=-37(LC 12)
 Max Grav 1=145(LC 1), 3=145(LC 1), 4=139(LC 3)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1 and 37 lb uplift at joint 3.



July 20,2020

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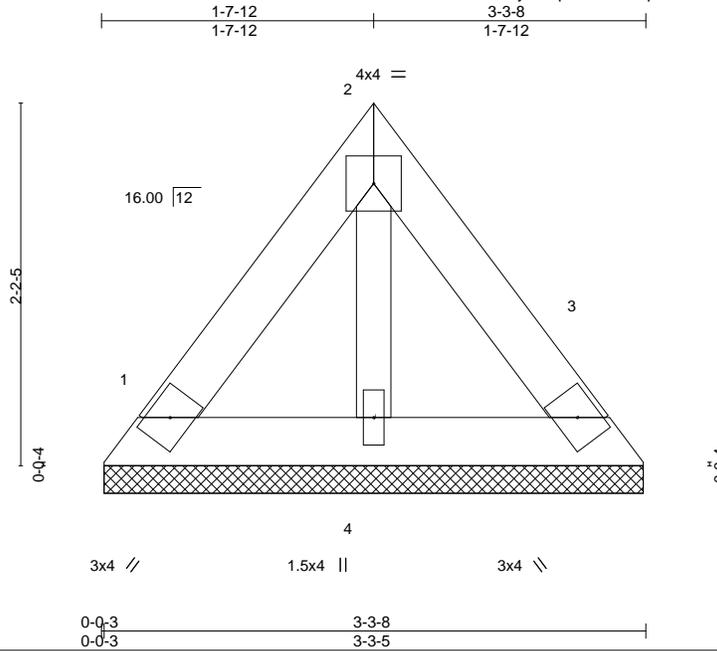
Job P200304	Truss VM08	Truss Type Valley	Qty 1	Ply 1	Roof Job Reference (optional)	I42078581
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:56 2020 Page 1

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Scale = 1:13.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(TL)	0.00	3	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-P					Weight: 10 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x3 SPF No.2

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

REACTIONS. (size) 1=3-3-2, 3=3-3-2, 4=3-3-2
Max Horz 1=58(LC 11)
Max Uplift 1=-21(LC 12), 3=-21(LC 12)
Max Grav 1=83(LC 1), 3=83(LC 1), 4=80(LC 3)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1 and 21 lb uplift at joint 3.



July 20,2020

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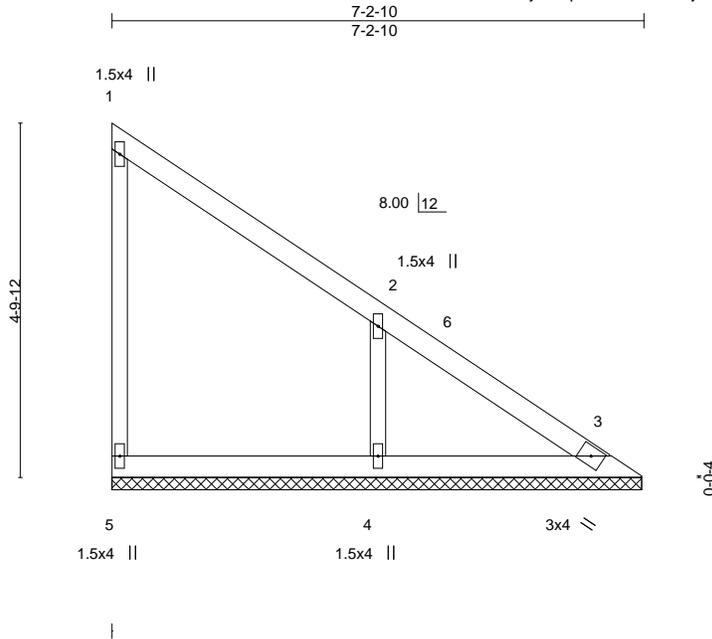
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof	I42078582
P200304	VN07	Valley	1	1		
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,						8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:12:00 2020 Page 1
						ID:TaBrkdJGwHITuvykGBpLdBz1ced-iX?hj67nzY3PGxX2m5YtMwymKfb86qfhVLUBHwUsD

Job Reference (optional)



Scale = 1:31.1

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.39	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(TL)	0.00	3	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-P					Weight: 22 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2
 OTHERS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=7-2-4, 3=7-2-4, 4=7-2-4
 Max Horz 5=-187(LC 10)
 Max Uplift 5=-42(LC 8), 4=-109(LC 12)
 Max Grav 5=133(LC 18), 3=132(LC 17), 4=377(LC 18)

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

TOP CHORD 2-3=-282/271
 BOT CHORD 4-5=-235/259, 3-4=-235/259
 WEBS 2-4=-308/222

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-4 to 4-4-3, Interior(1) 4-4-3 to 6-8-13 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 5 and 109 lb uplift at joint 4.



July 20,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

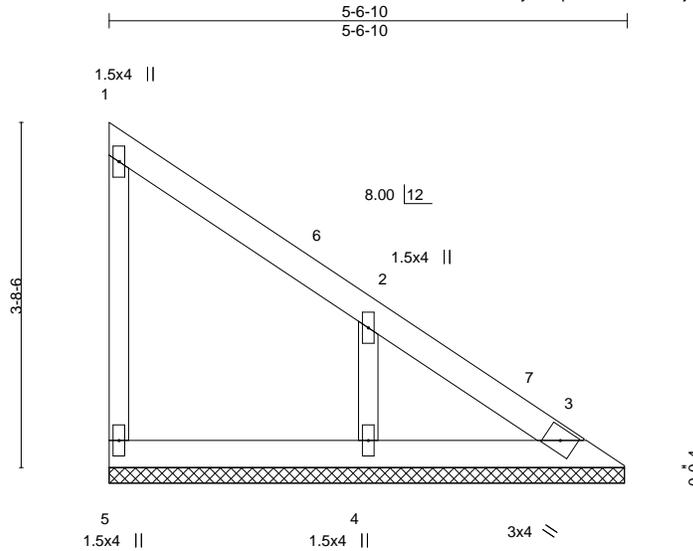
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof	I42078583
P200304	VN06	Valley	1	1		
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,						Job Reference (optional)

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:12:00 2020 Page 1
 ID:TaBrkdJGwHITuvykGBpLdBz1ced-iX?hj67nzY3PGxX2m5YtMwyp8fcm6qshVLUBDHywUsD



Scale = 1:24.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(TL)	0.00	3	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-P					Weight: 17 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2
 OTHERS 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-6-10 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=5-6-4, 3=5-6-4, 4=5-6-4
 Max Horz 5=-140(LC 10)
 Max Uplift 5=-32(LC 8), 4=-82(LC 12)
 Max Grav 5=102(LC 18), 3=97(LC 17), 4=283(LC 18)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-4 to 4-4-3, Interior(1) 4-4-3 to 5-0-13 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 5 and 82 lb uplift at joint 4.



July 20,2020

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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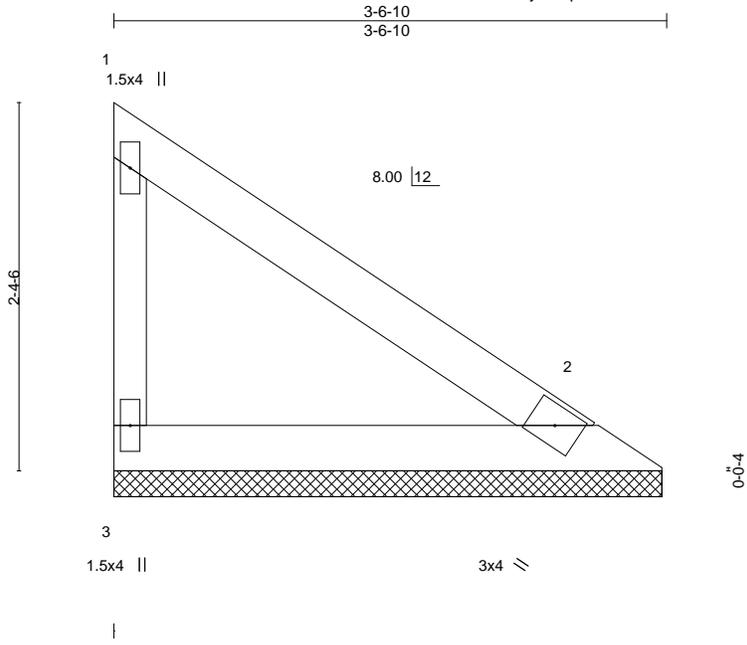
Job P200304	Truss VN05	Truss Type Valley	Qty 1	Ply 1	Roof Job Reference (optional)	142078584
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:59 2020 Page 1

ID:TaBrkdJGwHiTuvykGBpLdBz1ced-EKRJWm68CFxYenzsCN1epjQfHFG2NNJXGhgkfywUsE



Scale = 1:14.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	0.00	2	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-P					Weight: 10 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-6-10 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=3-6-4, 2=3-6-4
 Max Horz 3=-84(LC 8)
 Max Uplift 3=-29(LC 8), 2=-11(LC 12)
 Max Grav 3=139(LC 18), 2=133(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 3 and 11 lb uplift at joint 2.



July 20,2020

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



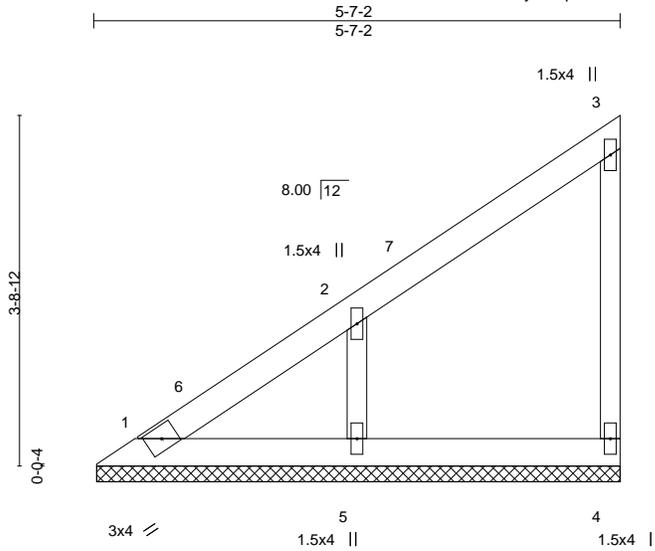
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job P200304	Truss VN01	Truss Type Valley	Qty 1	Ply 1	Roof Job Reference (optional)	I42078585
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:57 2020 Page 1

ID:TaBrkdJGwHiTuvykGBpLdBz1ced-IyJZ545ugdhdqOTpU5y?AkIKJqRb3vT7EpNFZbzywUsG



Scale = 1:24.4

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.22	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(TL)	0.00	4	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-P					Weight: 17 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2
 OTHERS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-7-2 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=5-6-12, 4=5-6-12, 5=5-6-12
 Max Horz 1=141(LC 9)
 Max Uplift 4=-32(LC 9), 5=-82(LC 12)
 Max Grav 1=98(LC 18), 4=103(LC 17), 5=285(LC 17)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 5-5-14 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 4 and 82 lb uplift at joint 5.



July 20, 2020

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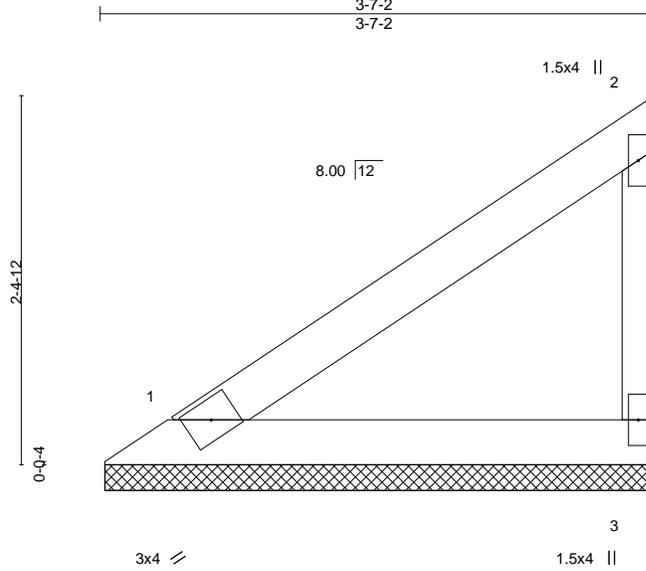
Job P200304	Truss VN02	Truss Type Valley	Qty 1	Ply 1	Roof Job Reference (optional)	I42078586
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:58 2020 Page 1

ID:TaBrkdJGwHITuykGBpLdBz1ced-m8txlQ5WRxph0dOgegWPHVtUSrwnw3O11?67PywUsF



Scale = 1:14.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	0.00	3	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-P					Weight: 10 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-7-2 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=3-6-12, 3=3-6-12
 Max Horz 1=85(LC 9)
 Max Uplift 1=-11(LC 12), 3=-29(LC 9)
 Max Grav 1=135(LC 1), 3=141(LC 17)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 1 and 29 lb uplift at joint 3.



July 20, 2020

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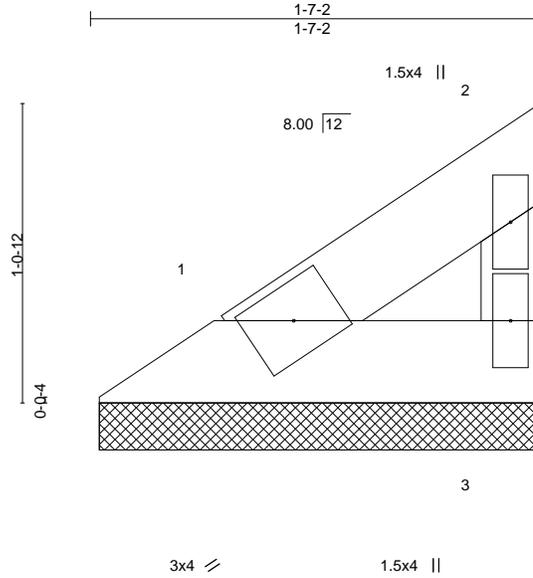
Job P200304	Truss VN03	Truss Type Valley	Qty 1	Ply 1	Roof Job Reference (optional)	142078587
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:58 2020 Page 1

ID:TaBrkdJGwHiTuvykGBpLdBz1ced-m8txIQ5WRxph0dOgegWPHVtWkrx?ew3O11?67PyyUsF



Scale = 1:8.1

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.02	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	0.00	3	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-P					Weight: 4 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-7-2 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=1-6-12, 3=1-6-12
 Max Horz 1=28(LC 11)
 Max Uplift 1=4(LC 12), 3=-10(LC 9)
 Max Grav 1=45(LC 1), 3=47(LC 17)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 1 and 10 lb uplift at joint 3.



July 20,2020

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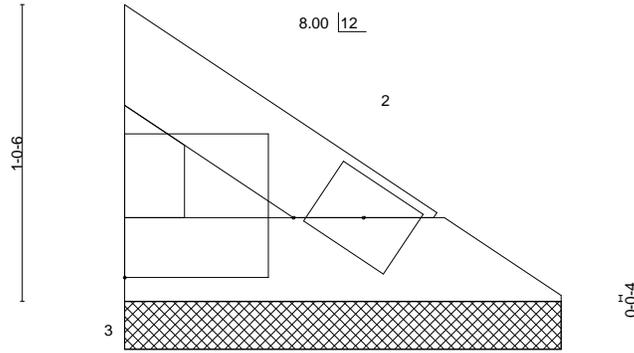
Job P200304	Truss VN04	Truss Type Valley	Qty 1	Ply 1	Roof Job Reference (optional)	142078588
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:59 2020 Page 1

ID:TaBrkdJGwHiTuvykGBpLdBz1ced-EKRJWm68CFxYenzsCN1epjQhVFHENNjXGhgkfywUsE
1-6-10
1-6-10

Scale: 1.5"=1'



6x6 = 3x4

Plate Offsets (X,Y)-- [1:0-1-4,0-0-13], [3:Edge,0-2-8], [3:0-1-4,0-0-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.02	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	0.00	2	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-P					Weight: 4 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-6-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=1-6-4, 2=1-6-4
Max Horz 3=-27(LC 8)
Max Uplift 3=-9(LC 8), 2=-4(LC 12)
Max Grav 3=45(LC 18), 2=43(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 3 and 4 lb uplift at joint 2.



July 20,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof	142078589
P200304	N02	Common	1	1		

Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:34 2020 Page 1

ID:TaBrkdJGwHiTuvykGBpLdBz1ced-TXRSGDpT5Zn58xY3Ed4nJStMhAenOudsWIArHoywUsd

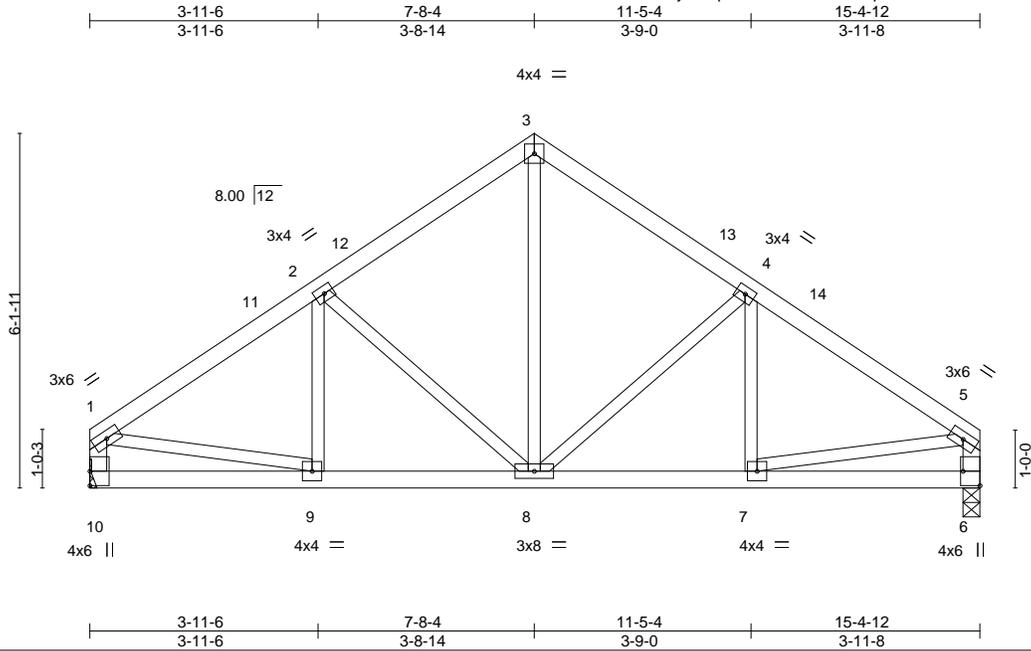


Plate Offsets (X,Y)--	[6:Edge,0-3-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) 0.06 7-8 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.49	Vert(TL) -0.08 7-8 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.74	Horz(TL) 0.02 6 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007	Matrix-MS		Weight: 63 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
1-10,5-6: 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-1-5 oc bracing.

REACTIONS. (size) 10=Mechanical, 6=0-3-8
Max Horz 10=-153(LC 10)
Max Uplift 10=-486(LC 12), 6=-486(LC 12)
Max Grav 10=1246(LC 1), 6=1246(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1418/1138, 2-3=-1082/920, 3-4=-1082/920, 4-5=-1424/1142, 1-10=-1073/835, 5-6=-1072/835
BOT CHORD 9-10=-174/256, 8-9=-904/1121, 7-8=-904/1126
WEBS 2-9=-272/219, 2-8=-408/376, 3-8=-902/868, 4-8=-413/380, 4-7=-276/223, 1-9=-753/973, 5-7=-753/973

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 7-8-4, Exterior(2) 7-8-4 to 10-8-4, Interior(1) 10-8-4 to 15-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=486, 6=486.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-70, 3-5=-70, 6-10=-95(F=-75)

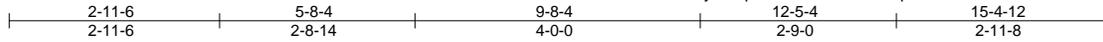


Job P200304	Truss N01	Truss Type Hip Girder	Qty 1	Ply 2	Roof Job Reference (optional)	142078590
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

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ID:TaBrkdJGwHITuvykGBpLdBz1ced-TXRsgDpT5Zn58xY3Ed4nJStMFAfe0_hsWIArHoywUsd



Scale: 3/8"=1'

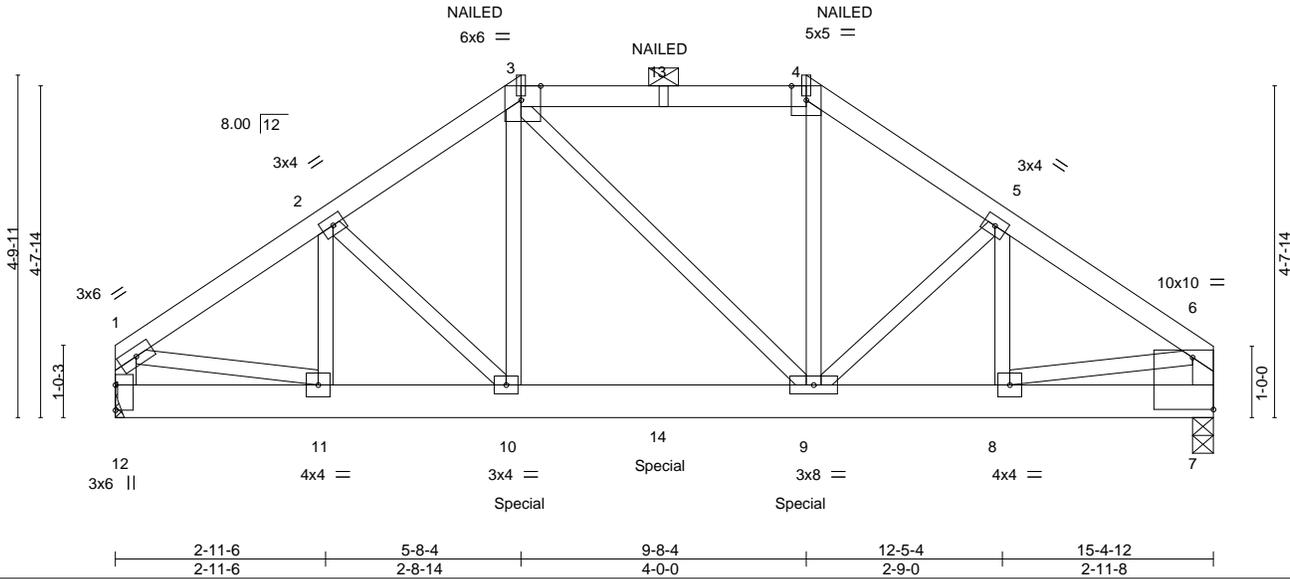


Plate Offsets (X,Y)--	[3:0-3-5,Edge], [6:Edge,0-8-12], [7:0-1-12,0-0-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.31	Vert(LL)	0.05	9-10	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.44	Vert(TL)	-0.07	9-10	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.35	Horz(TL)	0.01	7	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-MS						
								Weight: 147 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD 2x6 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 1-12,6-7: 2x4 SPF No.2	

REACTIONS. (size) 12=Mechanical, 7=0-3-8
 Max Horz 12=-115(LC 6)
 Max Uplift 12=-1401(LC 5), 7=-1399(LC 4)
 Max Grav 12=2372(LC 1), 7=2369(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2813/1704, 2-3=-3013/1938, 3-4=-2497/1657, 4-5=-3031/1947, 5-6=-2820/1708,
 1-12=-2142/1277, 6-7=-2133/1272
 BOT CHORD 11-12=-240/377, 10-11=-1431/2284, 9-10=-1609/2481, 8-9=-1385/2289, 7-8=-190/330
 WEBS 2-11=-464/327, 2-10=-435/409, 3-10=-664/1318, 4-9=-662/1331, 5-9=-429/424,
 5-8=-476/327, 1-11=-1235/2030, 6-8=-1231/2018

- NOTES-**
- 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.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
 Webs connected as follows: 2x3 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=1401, 7=1399.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 894 lb down and 530 lb up at 5-8-4, and 439 lb down and 228 lb up at 7-8-4, and 894 lb down and 530 lb up at 9-7-8 on bottom 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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd
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Job P200304	Truss N01	Truss Type Hip Girder	Qty 1	Ply 2	Roof Job Reference (optional)	I42078590
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:34 2020 Page 2
ID:TaBrkdJGwHiTuvykGBpLdBz1ced-TXRsgDpT5Zn58xY3Ed4nJStMFafe0_hsWIArHoywUsd

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-70, 3-4=-70, 4-6=-70, 7-12=-95(F=-75)
Concentrated Loads (lb)
Vert: 3=-18(F) 4=-18(F) 10=-894(F) 9=-894(F) 13=-18(F) 14=-408(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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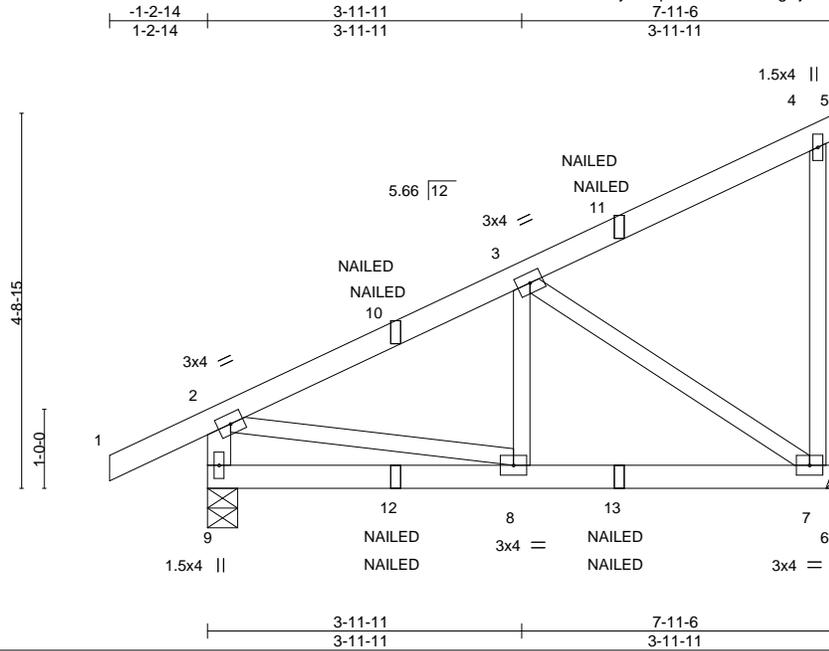
Job P200304	Truss HMN01	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	Roof Job Reference (optional)	142078591
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

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ID:TaBrkdJGwHiTuvykGBpLdBz1ced-WtngHjaYZjOoM0bPd8FK1Rb6dW993P438r4L6OywUsw



Scale = 1:29.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.27	Vert(LL)	-0.04	7-8	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.51	Vert(TL)	-0.06	7-8	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.28	Horz(TL)	-0.00	7	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-MP					Weight: 33 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 2-9: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 9-10-14 oc bracing.

REACTIONS.

(size) 9=0-4-9, 7=Mechanical
 Max Horz 9=195(LC 5)
 Max Uplift 9=-282(LC 8), 7=-308(LC 5)
 Max Grav 9=532(LC 1), 7=514(LC 1)

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

TOP CHORD 2-9=-522/258, 2-3=-549/297
 BOT CHORD 7-8=-326/448
 WEBS 2-8=-229/469, 3-7=-543/359

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=282, 7=308.
- 6) "NAILED" indicates 3-10d skew 45 to 135 degrees (0.148" x 3") toe-nails per NDS guidelines.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-70, 2-4=-70, 4-5=-20, 6-9=-20
 Concentrated Loads (lb)
 Vert: 11=-6(F=-3, B=-3) 13=-252(F=-126, B=-126)



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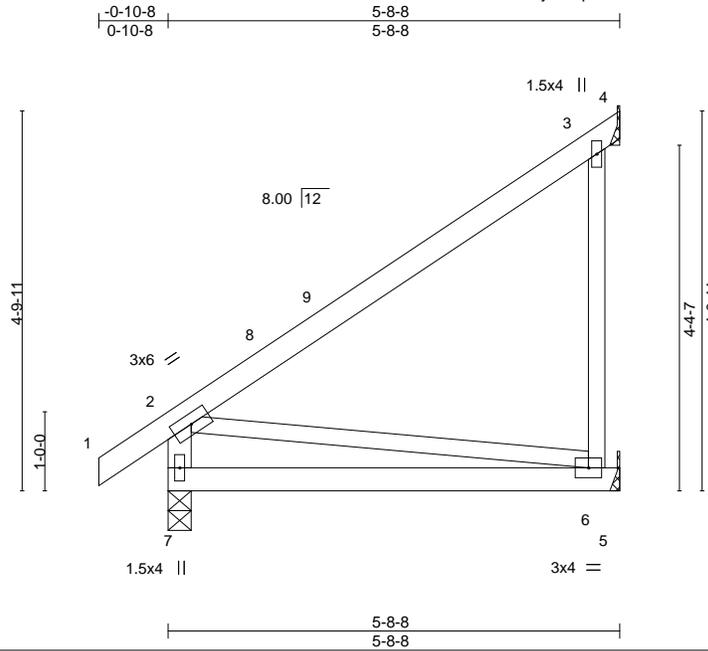
Job	Truss	Truss Type	Qty	Ply	Roof	I42078592
P200304	J04	Jack-Open	3	1		

Premier Building Supply (Springhill, KS),

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ID:TaBrkdJGwHiTuvykGBpLdBz1ced-Pe0B65d3dyuDrdrvAs_JGCHmlh7Yr?Ede3T2YF9ywUss



Scale = 1:29.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.46	Vert(LL)	0.13	6-7	>525	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.33	Vert(TL)	-0.13	6-7	>522	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.24	Horz(TL)	-0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-MP						Weight: 24 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 2-7: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 7=0-3-8, 4=Mechanical, 5=Mechanical
 Max Horz 7=185(LC 12)
 Max Uplift 7=-77(LC 12), 4=-307(LC 17), 5=-232(LC 12)
 Max Grav 7=326(LC 1), 4=165(LC 3), 5=508(LC 17)

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

TOP CHORD 2-7=-254/79
 WEBS 3-6=-546/182

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-7-12 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 4=307, 5=232.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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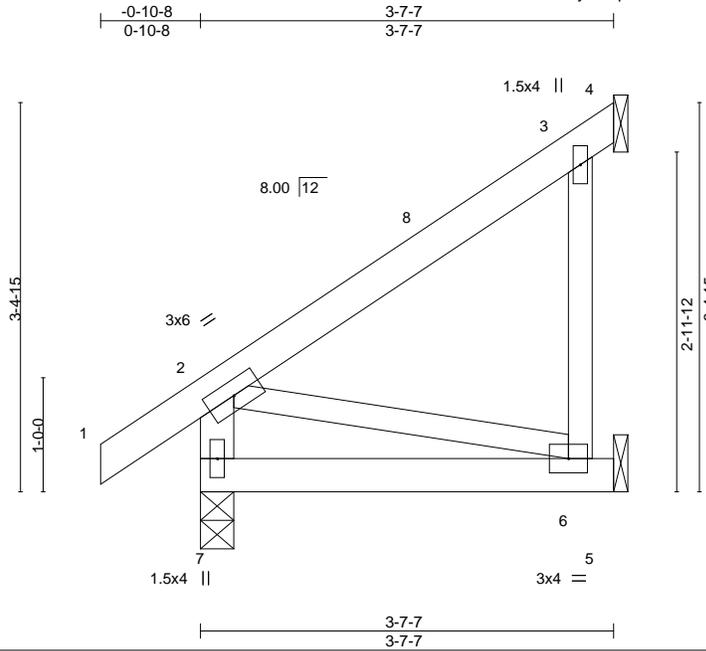
Job P200304	Truss J02	Truss Type Jack-Open	Qty 3	Ply 1	Roof	I42078593
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ID:TaBrkdJGwHiTuvykGBpLdBz1ced-xSTpvlcRsemNDTK_IGo1f4DfijGyGqPvrl?ijywUst



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	0.02 6-7	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(TL)	-0.02 6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(TL)	-0.00 4	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-MP					Weight: 16 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-7-7 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-7: 2x4 SPF No.2	

REACTIONS. (size) 7=0-3-8, 4=Mechanical, 5=Mechanical
 Max Horz 7=137(LC 12)
 Max Uplift 7=-56(LC 12), 4=-56(LC 17), 5=-88(LC 12)
 Max Grav 7=236(LC 1), 4=80(LC 3), 5=178(LC 17)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-6-11 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 4, 5.



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Job P200304	Truss J01	Truss Type Jack-Open	Qty 4	Ply 1	Roof Job Reference (optional)	142078594
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ID:TaBrkdJGwHiTuvykGBpLdBz1ced-TFvRiPco5LeWbKlclZHo7sgVCJxFXNVLc9ZSAHywUsu



Scale = 1:13.4

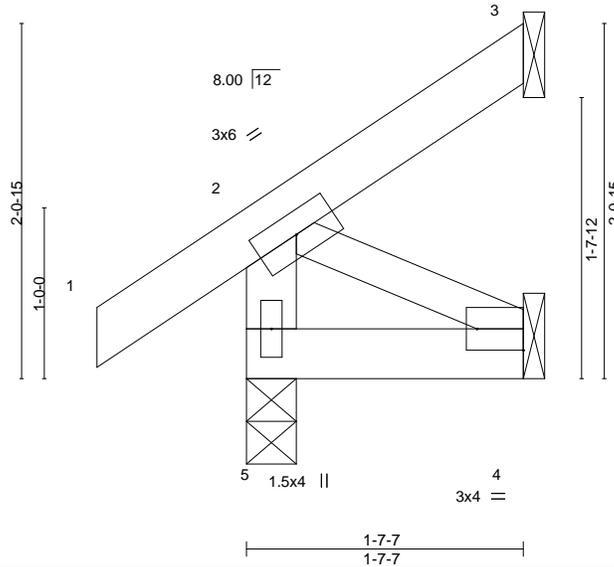


Plate Offsets (X,Y)--	[4:Edge,0-1-8]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	-0.00	5	>999
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(TL)	-0.00	5	>999
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(TL)	-0.00	3	n/a
BCDL 10.0	Code IRC2012/TPI2007		Matrix-MP				
							PLATES
							MT20
							GRIP
							197/144
							Weight: 7 lb
							FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
2-4: 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-7-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=91(LC 12)
Max Uplift 5=-36(LC 12), 3=-12(LC 9), 4=-51(LC 12)
Max Grav 5=162(LC 1), 3=29(LC 17), 4=29(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.



July 20,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

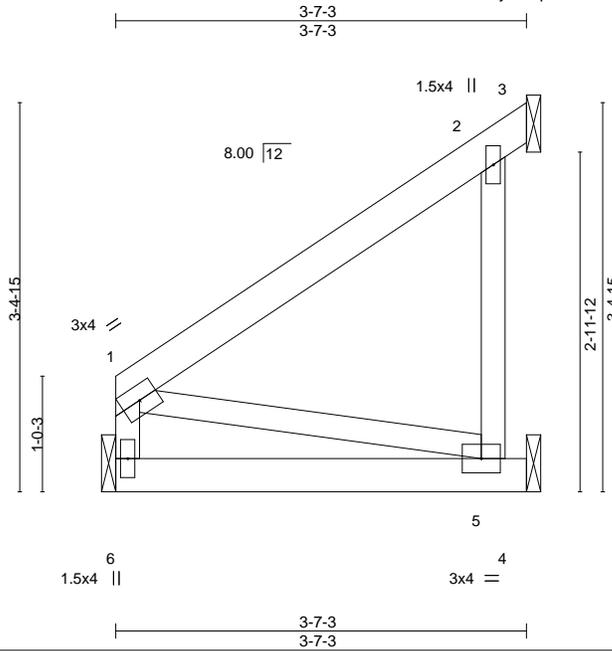
Job P200304	Truss J03	Truss Type Jack-Open	Qty 1	Ply 1	Roof Job Reference (optional)	142078595
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:19 2020 Page 1

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Scale = 1:20.1

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	0.02 5-6	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(TL)	-0.02 5-6	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(TL)	-0.00 3	n/a	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-MP					Weight: 14 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-7-3 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 3=Mechanical, 4=Mechanical
 Max Horz 6=101(LC 12)
 Max Uplift 6=-14(LC 12), 3=-83(LC 17), 4=-118(LC 12)
 Max Grav 6=154(LC 1), 3=74(LC 3), 4=214(LC 17)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 3 except (jt=lb) 4=118.



July 20,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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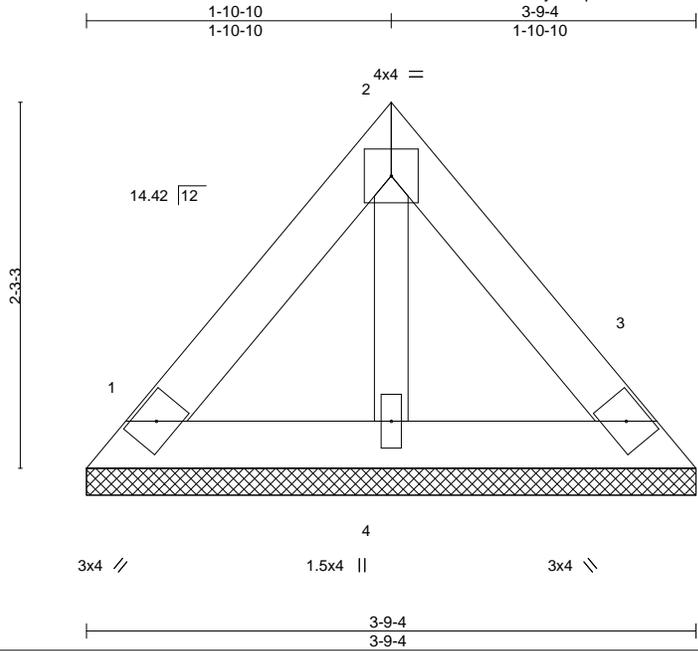
Job P200304	Truss LG01	Truss Type Lay-In Gable	Qty 1	Ply 1	Roof Job Reference (optional)	142078596
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Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.330 s May 6 2020 MiTek Industries, Inc. Sun Jul 19 13:11:27 2020 Page 1

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Scale = 1:14.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(TL)	0.00	3	n/a		
BCDL 10.0	Code IRC2012/TPI2007		Matrix-P					Weight: 11 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 OTHERS 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-9-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-9-4, 3=3-9-4, 4=3-9-4
 Max Horz 1=57(LC 11)
 Max Uplift 1=24(LC 12), 3=24(LC 12)
 Max Grav 1=95(LC 1), 3=95(LC 1), 4=94(LC 3)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 1 and 24 lb uplift at joint 3.



July 20,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

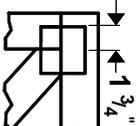
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



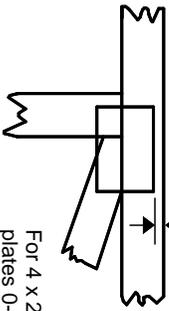
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Symbols

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

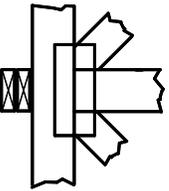
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



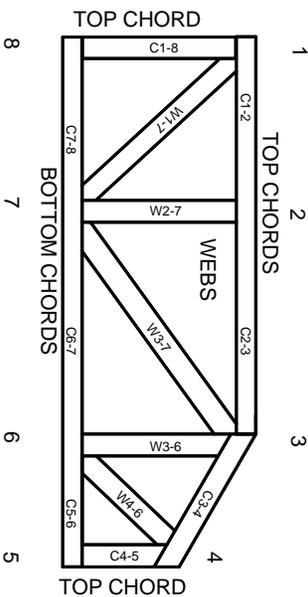
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



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/TP1 section 6.3 These truss designs rely on lumber values established by others.

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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/TP1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1.
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/TP1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.



MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020