



06/09/2022

MiTek USA, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Re: 3184769

SUMMIT HOMES/STONE CREEK #132/MO

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

Pages or sheets covered by this seal: I52395546 thru I52395576

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

Missouri COA: Engineering 001193



Scott M. Sevier

June 8, 2022

Sevier, Scott, Engineer

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



Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES/STONE CREEK #132 MO
3184769	A02	ROOF SPECIAL	3	1	DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 10 10:48:48 2022 Page 1
ID: qMeyVrAyR40V1rvItLjLFlzXPDf-O6ojdmVgGCfbyq7iKvQ0Ft0nJL1L3f19t852
0-10-8 7-9-12 15-4-14 23-0-0 24-6-8 29-11-15 35-5-7 40-10-14 46-0-0 46-10-8
0-10-8 7-9-12 7-7-2 7-7-2 1-6-8 5-5-7 5-5-7 5-5-7 5-1-2 0-10-8
Scale = 1:81.2

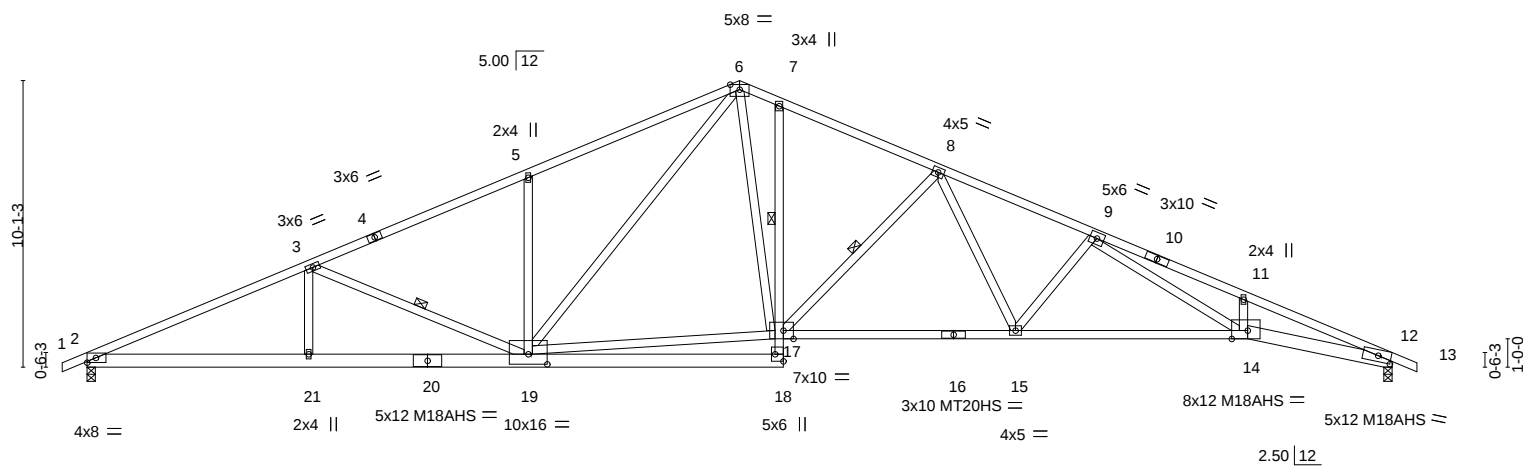


Plate Offsets (X,Y)--		[12:0-5-9,0-2-8], [14:0-6-12,Edge], [17:0-4-4,Edge], [18:Edge,0-3-8], [19:0-8-0,0-4-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.86
TCDL 10.0	Lumber DOL	1.15	BC 0.97
BCLL 0.0	Rep Stress Incr	YES	WB 0.61
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.53 14-15	>999	240
Vert(CT)	-1.02 14-15	>542	180
Horz(CT)	0.36 12	n/a	n/a
PLATES	GRIP		
MT20	197/144		
MT20HS	148/108		
M18AHS	142/136		
Weight: 226 lb	FT = 20%		

LUMBER-	BRACING-
TOP CHORD	2x4 SPF No.2 *Except*
6-10: 2x4 SPF 1650F 1.5E, 10-13: 2x4 SP 2400F 2.0E	TOP CHORD
BOT CHORD	2x4 SPF No.2 *Except*
2-20,18-20: 2x6 SPF No.2, 12-14: 2x6 SPF 2100F 1.8E	BOT CHORD
14-16: 2x4 SPF 1650F 1.5E	WEBS
WEBS	2x4 SPF No.2

REACTIONS.	(size) 2=0-3-8, 12=0-3-8
Max Horz	2=93(LC 8)
Max Uplift	2=-61(LC 8), 12=-61(LC 9)
Max Grav	2=2131(LC 1), 12=2131(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-4467/123, 3-5=-3666/105, 5-6=-3681/197, 6-7=-3081/121, 7-8=-3220/93, 8-9=-4559/116, 9-11=-7385/219, 11-12=-7446/152
BOT CHORD	2-21=-140/4035, 19-21=-140/4035, 18-19=0/318, 15-17=0/3692, 14-15=-18/4720, 12-14=-97/6882
WEBS	3-21=0/272, 3-19=-841/107, 5-19=-563/144, 6-17=-67/1360, 8-17=-1150/114, 8-15=-15/1054, 9-15=-941/114, 9-14=-100/2491, 6-19=-144/1133, 17-19=0/2359

- NOTES-
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are MT20 plates 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) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 8,2022

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES/STONE CREEK #132 MOD FOR PLAN REVIEW
3184769	B01	GABLE	1	1	DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 10 10:40:50 2022 Page 1					152395548
ID:qMeyVrAyR40V1rvltLjLFzXPDf-KVwU2RWwnqvWB7H5RKduizk1nPE1S-1w1SHPd18xy					06/09/2022
-0-10-8 6-6-7 12-10-5 19-2-2 25-6-0 29-6-8 34-11-15 40-5-7 45-10-14 51-0-0 51-10-8					0-10-8 6-6-7 6-3-14 6-3-14 6-3-14 4-0-8 5-5-7 5-5-7 5-5-7 5-1-2 0-10-8

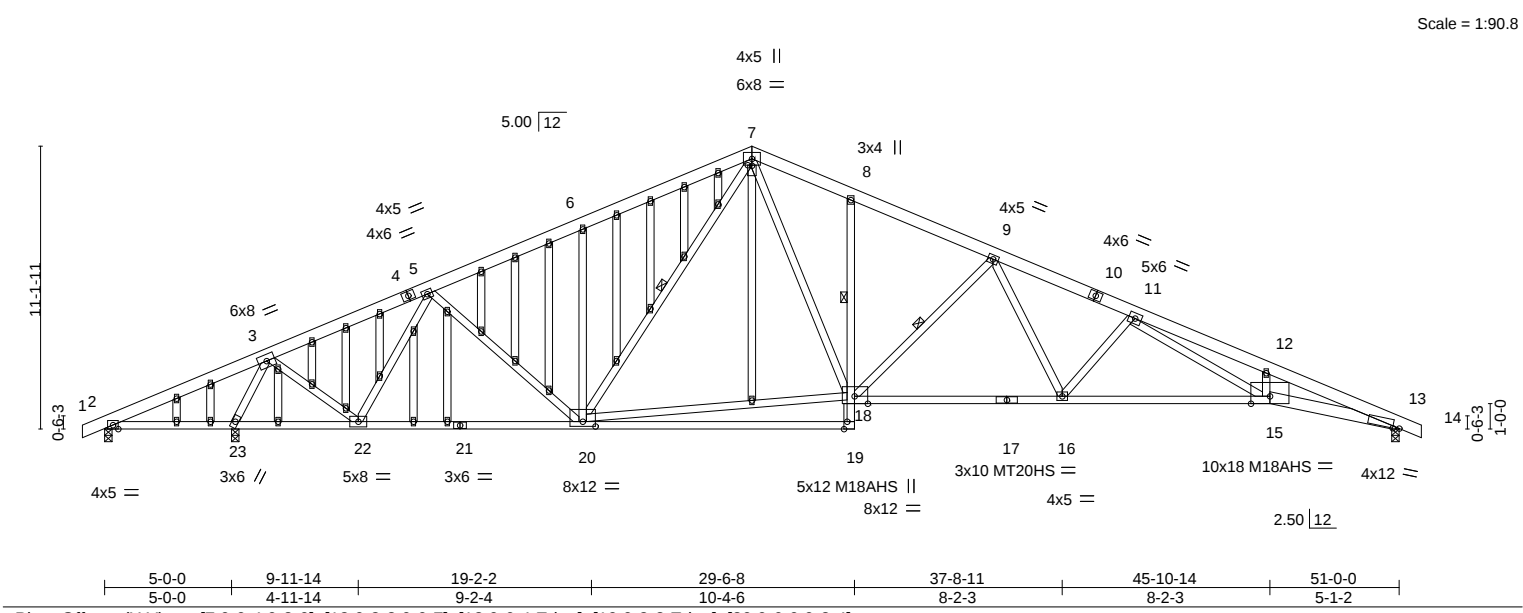


Plate Offsets (X,Y)--		[7:0-0-4,0-2-0], [13:0-3-2,0-0-7], [18:0-6-4,Edge], [19:0-3-8,Edge], [20:0-6-0,0-2-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.76
TCDL 10.0	Lumber DOL	1.15	BC 0.88
BCLL 0.0	Rep Stress Incr	YES	WB 0.93
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.41 15-16 >999 240
		Vert(CT)	-0.81 19-20 >677 180
		Horz(CT)	0.28 13 n/a n/a
		PLATES	GRIP
		MT20	197/144
		MT20HS	148/108
		M18AHS	142/136
		Weight: 343 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SPF No.2 *Except*	BOT CHORD Rigid ceiling directly applied. Except:
2-21: 2x4 SP 2400F 2.0E, 13-15: 2x6 SPF 2100F 1.8E	1 Row at midpt 8-18
15-17: 2x4 SPF 1650F 1.5E	WEBS 1 Row at midpt 7-20, 9-18
WEBS 2x4 SPF No.2	
OTHERS 2x4 SPF No.2	

REACTIONS.	(size) 2=0-3-8, 13=0-3-8, 23=0-3-8
	Max Horz 2=174(LC 8)
	Max Uplift 2=911(LC 1), 13=289(LC 9), 23=430(LC 8)
	Max Grav 2=78(LC 9), 13=1996(LC 1), 23=3628(LC 1)
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-321/2951, 3-5=-1040/168, 5-6=-2259/301, 6-7=-2275/413, 7-8=-2805/479, 8-9=-2862/407, 9-11=-4231/584, 11-12=-7088/1017, 12-13=-7176/937
BOT CHORD	2-23=-2616/382, 22-23=-1060/265, 20-22=-234/1494, 8-18=-318/143, 16-18=-254/3366, 15-16=-478/4460, 13-15=-808/6663
WEBS	3-22=-155/2375, 5-22=-1474/175, 5-20=-38/691, 7-20=-264/401, 18-20=-116/1771, 7-18=-284/1553, 9-18=-1143/274, 9-16=-139/1079, 11-16=-997/258, 11-15=-389/2483, 6-20=-477/210, 3-23=-3774/488

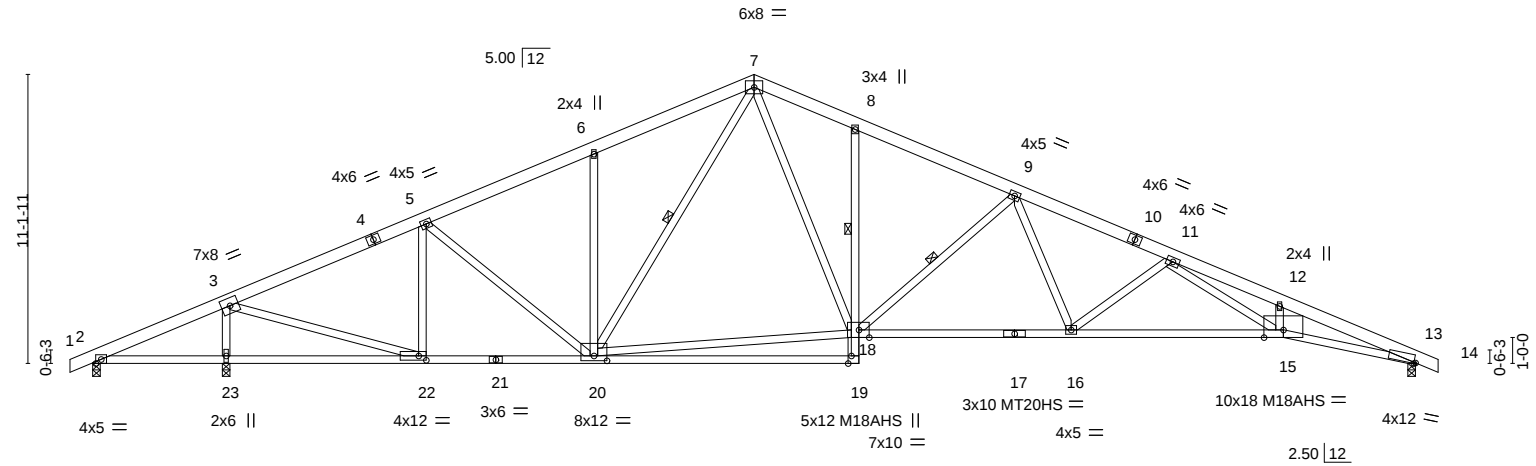
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; 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.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=911, 13=289, 23=430.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES/STONE CREEK #132
3184769	B02	ROOF SPECIAL	3	1	NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)

0-10-8 5-1-12 6-6-7 12-10-5 19-2-2 25-6-0 29-6-8 37-8-11 41-5-13 45-10-14 51-0-0 51-10-8
0-10-8 5-1-12 1-4-11 6-3-14 6-3-14 6-3-14 4-0-8 8-2-3 3-9-2 4-5-1 5-1-2 0-10-8

Scale = 1:88.8



5-1-12		12-10-5		19-2-2		29-6-8		37-8-11		45-10-14		51-0-0	
5-1-12		7-8-9		6-3-14		10-4-6		8-2-3		8-2-3		5-1-2	
Plate Offsets (X,Y)-- [13:0-0-12,Edge], [18:0-4-12,Edge], [19:0-3-8,Edge], [20:0-6-0,0-2-4], [22:0-3-8,0-2-0]													
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	0.87	Vert(LL)	-0.44 15-16	>999	240	MT20	197/144		
TCDL	10.0	Lumber DOL 1.15		BC	0.94	Vert(CT)	-0.87 15-16	>630	180	MT20HS	148/108		
BCLL	0.0	Rep Stress Incr YES		WB	0.87	Horz(CT)	0.30 13	n/a	n/a	M18AHS	142/136		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 277 lb		FT = 20%	

LUMBER-

TOP CHORD 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
2-21,13-15: 2x4 SP 2400F 2.0E, 15-17: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 8-18
WEBS 1 Row at midpt 7-20, 9-18

REACTIONS.

(size) 2=0-3-8, 23=0-3-8, 13=0-3-8
Max Horz 2=103(LC 8)
Max Uplift 2=-559(LC 20), 23=-74(LC 8), 13=-72(LC 9)
Max Grav 23=3216(LC 1), 13=2032(LC 1)

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

TOP CHORD 2-3=-42/1842, 3-5=-2053/70, 5-6=-2420/86, 6-7=-2422/160, 7-8=-2917/171,
8-9=-2979/118, 9-11=-4339/139, 11-12=-7015/250, 12-13=-7232/196
BOT CHORD 2-23=-1595/93, 22-23=-1595/93, 20-22=-50/1788, 8-18=-340/90, 16-18=0/3566,
15-16=-73/4824, 13-15=-137/6663
WEBS 3-22=-10/3532, 5-22=-908/57, 6-20=-463/117, 12-15=0/268, 5-20=0/527, 18-20=0/1859,
7-18=-91/1587, 7-20=-179/475, 3-23=-3021/131, 9-18=-1208/117, 9-16=0/981,
11-16=-1142/122, 11-15=-81/2054

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 13 except (jt=lb) 2=559.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 8, 2022

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

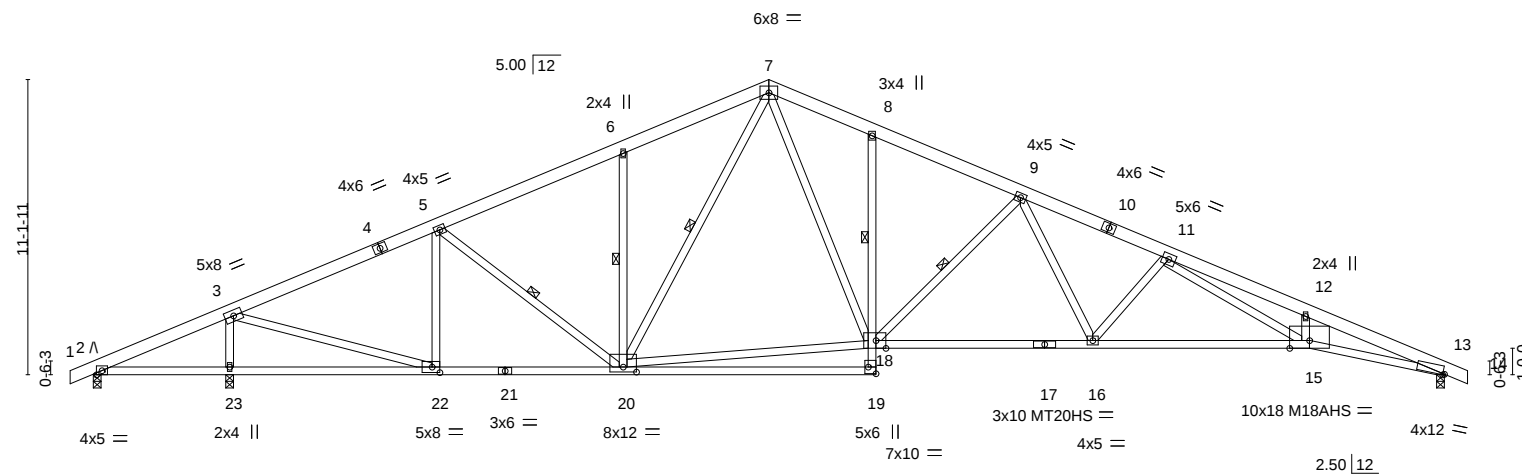


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES/STONE CREEK #132 MO
3184769	B03	Roof Special	1	1	DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 10/40/57/2022 Page 1
 ID: qMeyVrAyR40V1rvttLjLFzXPdF-l4bcgTZp4ll52bng7TBbUJL2QrZlGdMxyd85v
 0-10-8 5-1-12 12-11-3 20-0-0 25-6-0 29-6-8 34-11-15 40-5-7 45-10-14 51-0-0 51-10-8
 0-10-8 5-1-12 7-9-7 7-0-13 5-6-0 4-0-8 5-5-7 5-5-7 5-5-7 5-1-2 0-10-8

Scale = 1:87.0



5-1-12	12-11-3	20-0-0	25-6-0	29-6-8	37-8-11	45-10-14	51-0-0
5-1-12	7-9-7	7-0-13	5-6-0	4-0-8	8-2-3	8-2-3	5-1-2

Plate Offsets (X,Y)-- [13:0-0-12,Edge], [18:0-4-8,Edge], [19:Edge,0-3-8], [20:0-6-0,0-2-4], [22:0-3-8,0-2-8]

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 0.96	Vert(LL)	-0.47 15-16	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.95	Vert(CT)	-0.93 15-16	>593	180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr	YES	WB 0.69	Horz(CT)	0.34 13	n/a	n/a	M18AHS	142/136
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 278 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SPF No.2 *Except*	BOT CHORD	Rigid ceiling directly applied. Except:
	2-21,13-15: 2x4 SP 2400F 2.0E, 15-17: 2x4 SPF 1650F 1.5E		1 Row at midpt 8-18
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt 5-20, 6-20, 9-18, 7-20

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 23=0-3-8
 Max Horz 2=103(LC 10)
 Max Uplift 2=REL, 13=-71(LC 9), 23=-75(LC 8)
 Max Grav 13=2092(LC 1), 23=2621(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-43/578, 3-5=-2547/70, 5-6=-2662/89, 6-7=-2645/156, 7-8=-3088/169,
 8-9=-3139/118, 9-11=-4537/147, 11-12=-7297/263, 12-13=-7483/198
 BOT CHORD 2-23=-443/100, 22-23=-443/100, 20-22=-49/2248, 8-18=-322/85, 16-18=0/3630,
 15-16=-52/4761, 13-15=-140/6896
 WEBS 3-23=-2447/132, 3-22=-10/2792, 5-22=-653/62, 6-20=-452/115, 18-20=0/2020,
 7-18=-92/1620, 9-18=-1153/114, 9-16=-17/1115, 11-16=-1031/119, 11-15=-109/2360,
 7-20=-108/546

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 23.
- "A" indicates Released bearing: allow for upward movement at joint(s) 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 8, 2022

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

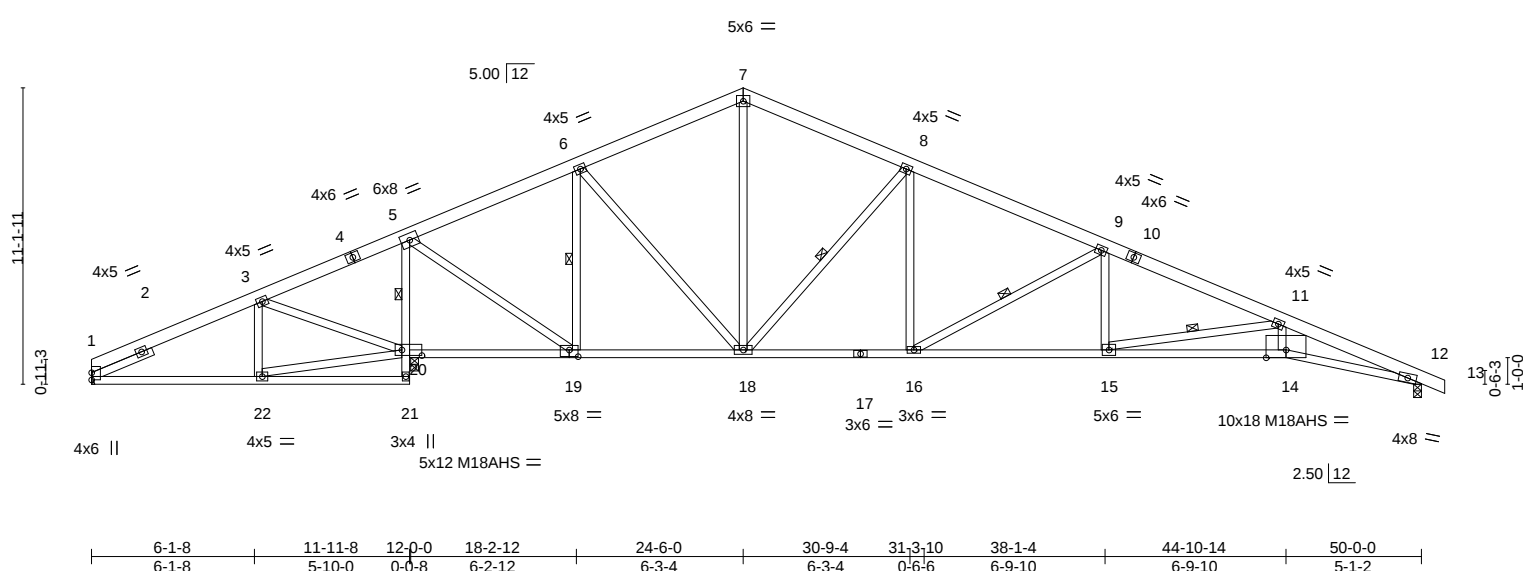
Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES/STONE CREEK #132	RELEASE FOR CONSTRUCTION
3184769	B04	Roof Special	4	1	Job Reference (optional)	DEVELOPMENT SERVICES

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 10 10:40:54 2022 Page 1

1D:qMeyVrAyR40V1rvltLjLFizXPdf-DG9?upZRr2QxglosgAiQwWfUPmCf8sPUMC285i

06/09/2022

Scale = 1:86.6



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 0.57	Vert(LL)	-0.34 14-15	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.65 14-15	>706	180	M18AHS	142/136
BCLL 0.0	Rep Stress Incr	YES	WB 0.68	Horz(CT)	0.21 12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 260 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SPF No.2 *Except*	BOT CHORD Rigid ceiling directly applied. Except:
19-20: 2x4 SP 2400F 2.0E, 12-14,14-17: 2x4 SPF 1650F 1.5E	1 Row at midpt 5-20
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 6-19, 8-18, 9-16, 11-15
SLIDER Left 2x4 SPF No.2 2-6-0	

REACTIONS. (size) 1=Mechanical, 12=0-3-8, 20=0-3-8
Max Horz 1=-114(LC 9)
Max Uplift 1=-390(LC 20), 12=-75(LC 9), 20=-31(LC 8)
Max Grav 1=143(LC 19), 12=1564(LC 1), 20=3165(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-219/1059, 3-5=0/1998, 5-6=-493/84, 6-7=-1118/132, 7-8=-1120/122, 8-9=-2011/132, 9-11=-3212/155, 11-12=-5340/229
BOT CHORD 1-22=-915/127, 5-20=-2779/38, 19-20=-1780/144, 18-19=0/407, 16-18=0/1757, 15-16=-33/2941, 14-15=-165/4702, 12-14=-169/4919
WEBS 3-22=0/353, 20-22=-835/121, 3-20=-1127/55, 5-19=0/2577, 6-19=-1391/50, 6-18=-5/951, 7-18=-37/393, 8-18=-1223/124, 9-16=-1355/115, 9-15=0/546, 11-15=-1795/134, 11-14=0/1041, 8-16=0/787

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are MT20 plates 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) Refer to girder(s) for truss to truss connections.
 - 6) Bearing at joint(s) 12 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) 12, 20 except (jt=lb) 1=390.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 8, 2022

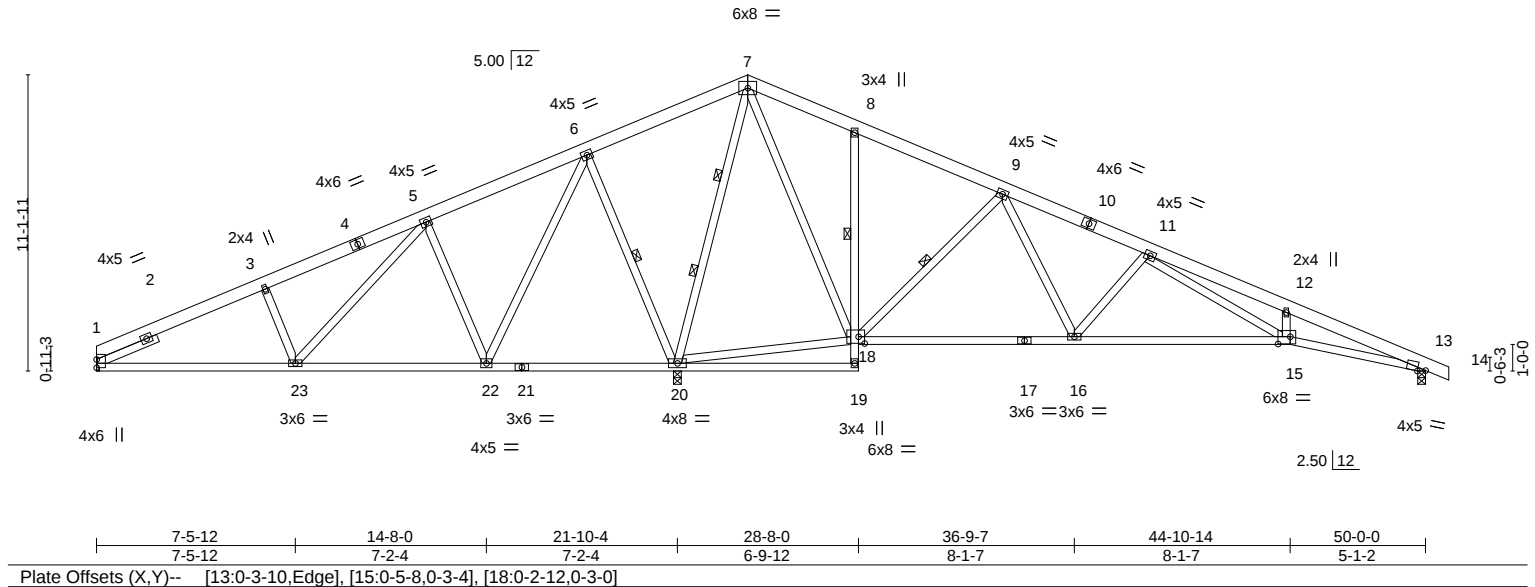
Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES/STONE CREEK #132 MO
3184769	B05	Roof Special	3	1	DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jan 10 40:55:30 2022 Page 1
ID: qMeyVrAyR40V1rvltLjLFizXPdF-hTjN59a3cMYdV92EtD39JgM068L055AfzVrt8155

06/09/2022

6-4-2	12-4-12	18-5-6	24-6-0	28-8-0	34-0-15	39-5-15	44-10-14	50-0-0	50-0-8
6-4-2	6-0-10	6-0-10	6-0-10	4-2-0	5-4-15	5-4-15	5-4-15	5-1-2	0-10-8

Scale = 1:86.7



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 0.44	Vert(LL)	-0.15 15-16	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.57	Vert(CT)	-0.33 15-16	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.96	Horz(CT)	0.06 13	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
Weight: 271 lb									FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SPF No.2 *Except*	Rigid ceiling directly applied. Except:
19-21: 2x4 SP 2400F 2.0E	1 Row at midpt 8-18
WEBS 2x4 SPF No.2	1 Row at midpt 6-20, 9-18
SLIDER Left 2x4 SPF No.2 2-6-0	2 Rows at 1/3 pts 7-20

REACTIONS.	(size) 1=Mechanical, 13=0-3-8, 20=0-3-8
	Max Horz 1=-114(LC 9)
	Max Uplift 1=-149(LC 20), 13=-65(LC 9), 20=-6(LC 9)
	Max Grav 1=594(LC 19), 13=875(LC 20), 20=3437(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-3=-742/573, 3-5=-672/615, 5-6=0/1078, 6-7=0/1716, 7-8=0/654, 8-9=0/659, 9-11=-768/127, 11-12=-2486/238, 12-13=-2517/173
BOT CHORD	1-23=-479/685, 22-23=-862/172, 20-22=-1151/165, 8-18=-342/86, 16-18=-122/288, 15-16=-33/1089, 13-15=-116/2305
WEBS	3-23=-454/97, 5-23=-39/765, 5-22=-705/118, 6-22=-56/865, 6-20=-1022/144, 7-20=-2261/32, 18-20=-928/164, 7-18=-93/1133, 9-18=-966/113, 9-16=-16/817, 11-16=-714/117, 11-15=-104/1411

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 20 except (jt=lb) 1=149.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 8, 2022

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	SUMMIT HOMES/STONE CREEK #132
3184769	B06	Roof Special	1	1	NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					DEVELOPMENT SERVICES
8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 7 10:40:57 2022 Page 1					LEE'S SUMMIT, MISSOURI
Job Reference (optional)					5239553

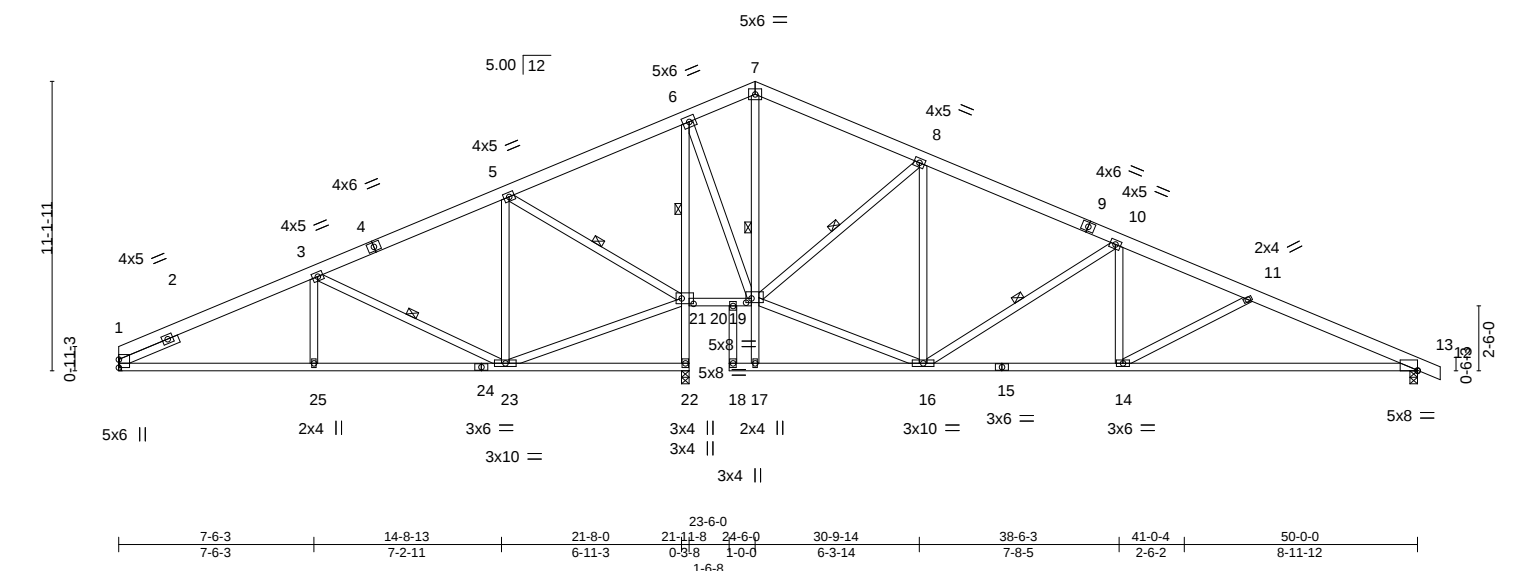
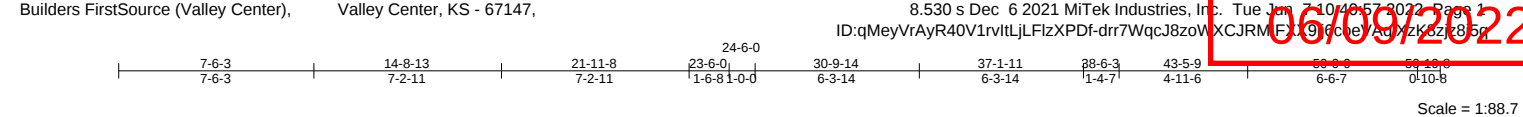


Plate Offsets (X,Y)--		[12:0-0-0,0-0-4], [19:0-2-8,0-2-0], [21:0-5-8,0-2-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.35
TCDL 10.0	Lumber DOL	1.15	BC 0.89
BCLL 0.0	Rep Stress Incr	YES	WB 0.37
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.26 14-32 >999 240
		Vert(CT)	-0.56 14-32 >606 180
		Horz(CT)	0.04 12 n/a n/a
		PLATES	GRIP
		MT20	197/144
		Weight: 280 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SPF No.2 *Except*	BOT CHORD	Rigid ceiling directly applied. Except:
	22-24: 2x4 SP 2400F 2.0E		1 Row at midpt 6-21
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt 3-23, 5-21, 7-17, 8-19, 10-16
SLIDER	Left 2x4 SPF No.2 2-6-0		

REACTIONS. (size) 1=Mechanical, 22=0-3-8, 12=0-3-8
Max Horz 1=-114(LC 9)
Max Uplift 1=-40(LC 8), 22=-28(LC 8), 12=-79(LC 9)
Max Grav 1=796(LC 19), 22=2738(LC 1), 12=1162(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1113/85, 3-5=-467/168, 5-6=0/961, 6-7=0/344, 7-8=0/396, 8-10=-773/150,
10-11=-1621/152, 11-12=-2074/185
BOT CHORD 1-25=-108/1027, 23-25=-108/1027, 21-22=-2678/52, 6-21=-1984/34, 20-21=-801/167,
19-20=-843/166, 14-16=-31/1436, 12-14=-110/1875
WEBS 3-25=0/287, 3-23=-791/95, 5-23=0/508, 21-23=-132/362, 5-21=-1109/112, 6-19=-8/1463,
8-16=-12/508, 7-19=-453/0, 16-19=0/625, 8-19=-1078/154, 10-16=-965/93,
10-14=0/507, 11-14=-502/89

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 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) 1, 22, 12.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 8, 2022

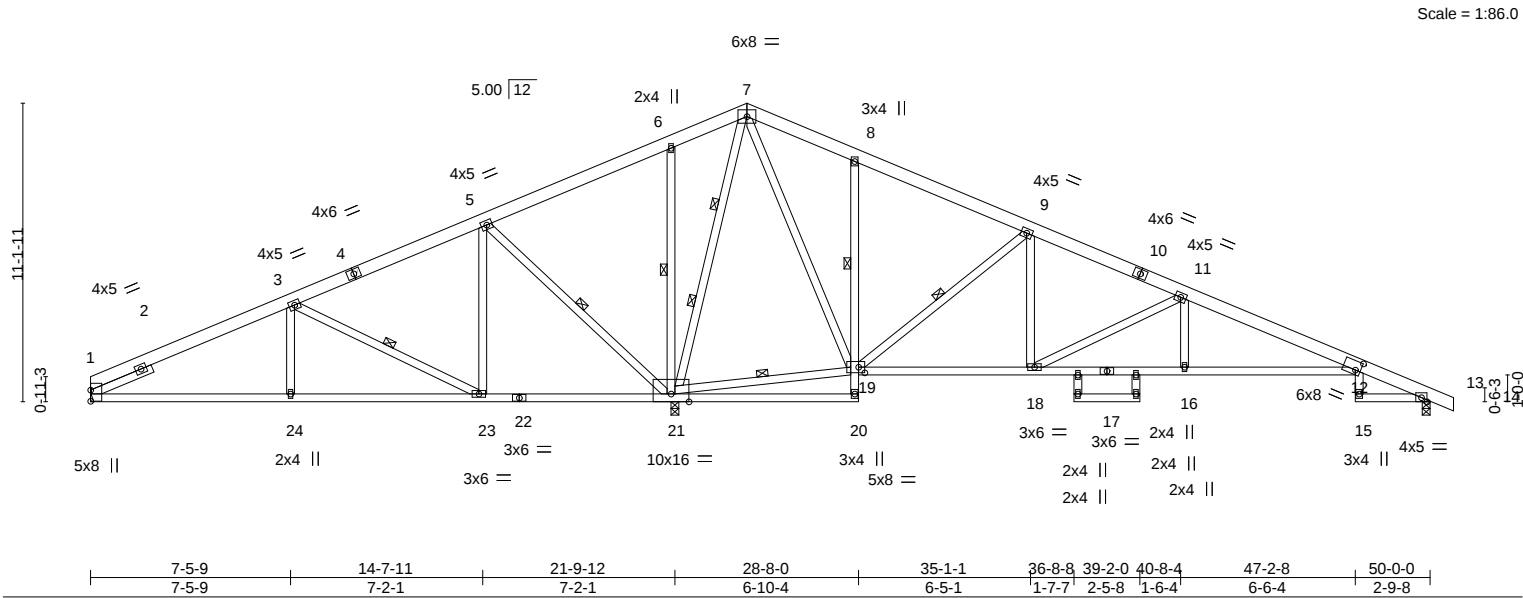
Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES/STONE CREEK #132
3184769	B07	Roof Special	5	1	NOTED FOR PLAN REVIEW
					DEVELOPMENT SERVICES
					LEE'S SUMMIT, MISSOURI

Builders FirstSource (Valley Center),
Valley Center, KS - 67147,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 10 10:46:58 2022 Page 1

ID: qMeyVrAyR40V1rvltLjLFizXPdf-52PVkAcyvHwN9Mudv0nm4MlE0CkETRow14p1928p

06/09/2022



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 0.88	Vert(LL)	-0.33 12-16	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.61	Vert(CT)	-0.59 12-16	>580	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.98	Horz(CT)	0.16 13	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 276 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SPF No.2 *Except*	BOT CHORD Rigid ceiling directly applied. Except:
20-22: 2x4 SP 2400F 2.0E	1 Row at midpt 8-19
WEBS 2x4 SPF No.2	1 Row at midpt 9-19, 6-21, 19-21, 5-21, 3-23
SLIDER Left 2x4 SPF No.2 2-6-0	2 Rows at 1/3 pts 7-21

REACTIONS. (size) 1=Mechanical, 13=0-3-8, 21=0-3-8
Max Horz 1=-114(LC 9)
Max Uplift 1=-513(LC 20), 13=-47(LC 9), 21=-47(LC 9)
Max Grav 1=469(LC 19), 13=601(LC 20), 21=4028(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-426/1404, 3-5=-58/1923, 5-6=0/2515, 6-7=0/2399, 7-8=0/1328, 8-9=0/1393, 9-11=0/534, 11-12=-643/81, 12-13=-279/45
BOT CHORD 1-24=-1223/394, 23-24=-1223/394, 21-23=-1766/227, 8-19=-443/103, 18-19=-440/92, 16-18=0/594, 12-16=0/594
WEBS 9-19=-988/101, 9-18=0/579, 11-18=-1041/98, 11-16=0/268, 6-21=-504/93, 19-21=-1548/198, 7-19=-93/1053, 7-21=-2501/52, 5-21=-1038/114, 5-23=0/580, 3-23=-1009/80, 3-24=0/311

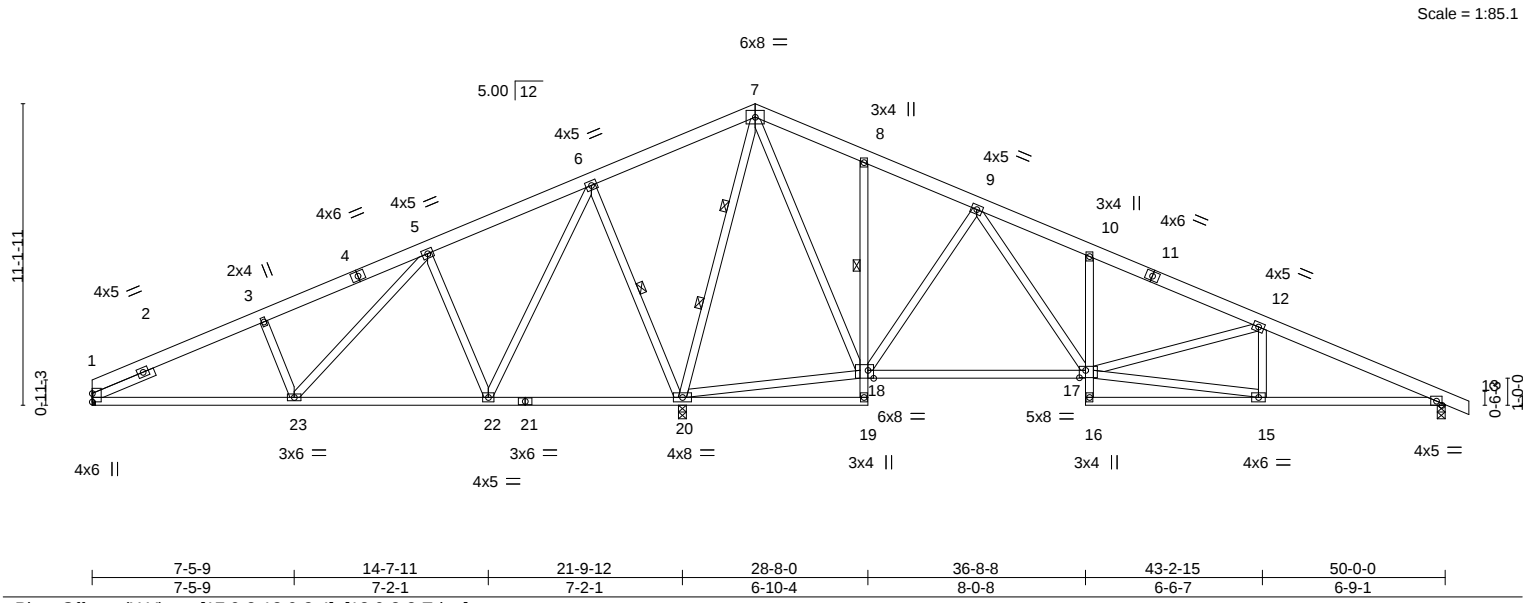
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 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) 13, 21 except (jt=lb) 1=513.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 8,2022

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES/STONE CREEK #132100
3184769	B09	Roof Special	1	1	MODIFIED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 10 10:40:59 2022 Page 1
ID:qMeyVrAyR40V1rvltLjLFizXPdf-ZEzuxWdagb2EmVTpTjl?da=300&zy=120&pfcc=800



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 0.38	Vert(LL)	-0.14 17-18	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.44	Vert(CT)	-0.30 17-18	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.88	Horz(CT)	0.03 13	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 282 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SPF No.2 *Except* 19-21: 2x4 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied. Except: 1 Row at midpt 8-18
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 6-20
SLIDER Left 2x4 SPF No.2 2-6-0	2 Rows at 1/3 pts 7-20

REACTIONS. (size) 1=Mechanical, 13=0-3-8, 20=0-3-8
Max Horz 1=-114(LC 9)
Max Uplift 1=-43(LC 8), 13=-74(LC 9), 20=-23(LC 8)
Max Grav 1=649(LC 19), 13=1019(LC 20), 20=3142(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-855/189, 3-5=-791/231, 5-6=-55/640, 6-7=0/1311, 7-8=-41/335, 8-9=-52/314,
9-10=-1229/193, 10-12=-1255/143, 12-13=-1778/151
BOT CHORD 1-23=-137/789, 22-23=-466/228, 20-22=-770/140, 8-18=-275/72, 17-18=-81/485,
10-17=-363/91, 13-15=-82/1592
WEBS 3-23=-416/100, 5-23=-43/712, 5-22=-693/119, 6-22=-57/857, 6-20=-1008/145,
7-20=-2024/15, 18-20=-590/149, 7-18=-92/1191, 9-18=-892/114, 9-17=-77/1082,
15-17=-69/1551, 12-17=-586/81

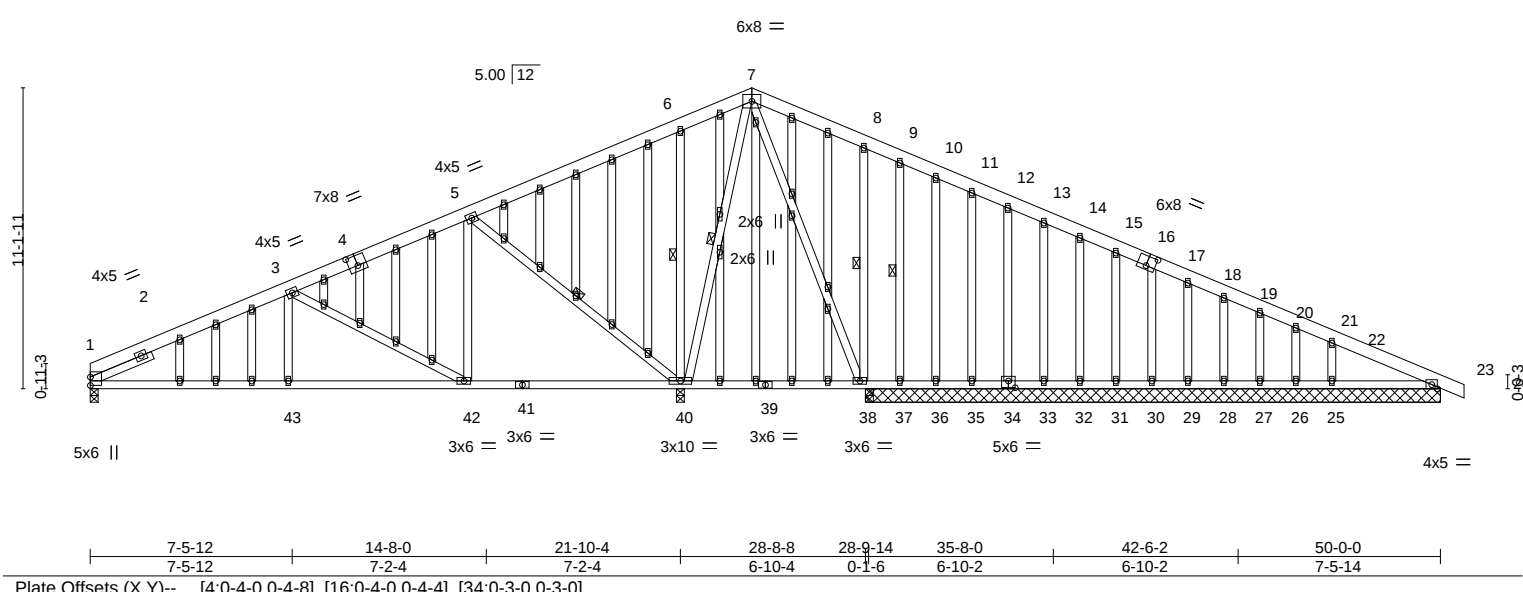
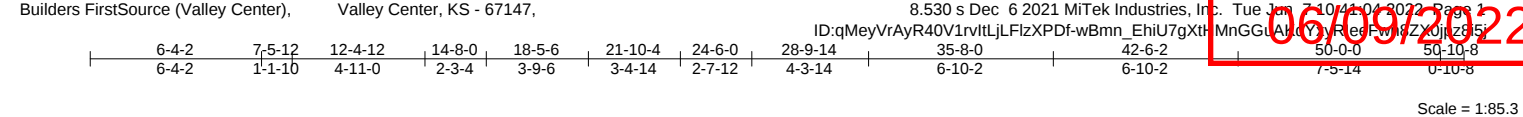
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 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) 1, 13, 20.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 8, 2022

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES/STONE CREEK #132 MO
3184769	B10	GABLE	1	1	DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)

RELEASE FOR CONSTRUCTION
06/09/2022



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.07 40-42 >999 240	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.14 40-42 >999 180				
BCLL	0.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.03 40 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							
										Weight: 397 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt 6-40, 7-40, 5-40, 8-38, 9-37
OTHERS	2x4 SPF No.2		
SLIDER	Left 2x4 SPF No.2 2-6-0		

REACTIONS. All bearings 21-3-8 except (jt=length) 1=0-3-8, 40=0-3-8.
(lb) - Max Horz 1=-188(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 23 except 1=-117(LC 8), 40=-330(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 23, 23 except 1=775(LC 1), 40=1819(LC 1), 38=339(LC 22), 25=376(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1064/180, 3-5=-501/195, 5-6=-32/580, 6-7=0/492, 7-8=0/381, 8-9=0/349, 9-10=0/331, 10-11=0/315, 11-12=0/304, 12-13=0/292, 13-14=0/287, 14-15=0/286, 15-17=-2/286, 17-18=-15/286, 18-19=-27/286, 19-20=-40/287, 20-21=-53/288, 21-22=-61/267, 22-23=-97/332
BOT CHORD 1-43=-242/982, 42-43=-242/982, 40-42=-73/387, 38-40=-323/163, 37-38=-254/127, 36-37=-254/127, 35-36=-254/127, 34-35=-254/127, 33-34=-254/127, 32-33=-254/127, 31-32=-254/127, 30-31=-254/127, 29-30=-254/127, 28-29=-254/127, 27-28=-254/127, 26-27=-254/127, 25-26=-254/127, 23-25=-254/127
WEBS 6-40=-482/202, 7-40=-550/20, 5-40=-1051/274, 3-42=-678/192, 3-43=0/263, 5-42=-28/509, 22-25=-285/109

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; 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 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 23, 23 except (jt=lb) 1=117, 40=330.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

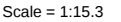


June 8, 2022

Builders FirstSource (Valley Center),	Valley Center, KS - 67147,
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8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jan 7 10:41:05 2022 Page 1

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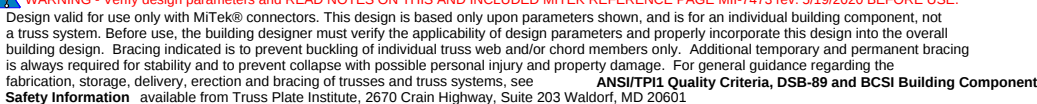
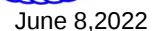
Weight: 18 lb FT = 20%

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

(size) 2=0-4-9, 4=Mechanical, 6=Mechanical
Max Horz 2=53(LC 19)
Max Uplift 2=-41(LC 4), 4=-22(LC 8)
Max Grav 2=335(LC 1), 4=137(LC 1), 6=104(LC 3)

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCdL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical 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) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-70, 8-9=-20, 5-7=-20
Concentrated Loads (lb)
Vert: 8=-5(F=-3, B=-3)



Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES/STONE CREEK #132
3184769	D02	Roof Special	2	1	NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					DEVELOPMENT SERVICES
Job Reference (optional)					LEE'S SUMMIT, MISSOURI

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 7 10:44:08 2022 Page 1

ID:qMeyVrAyR40V1rvItLjLFizXPdF-pz?HqbkDYMBYmufYV6y6U1Z33eaa1mVXVPSaz95f

06/09/2022

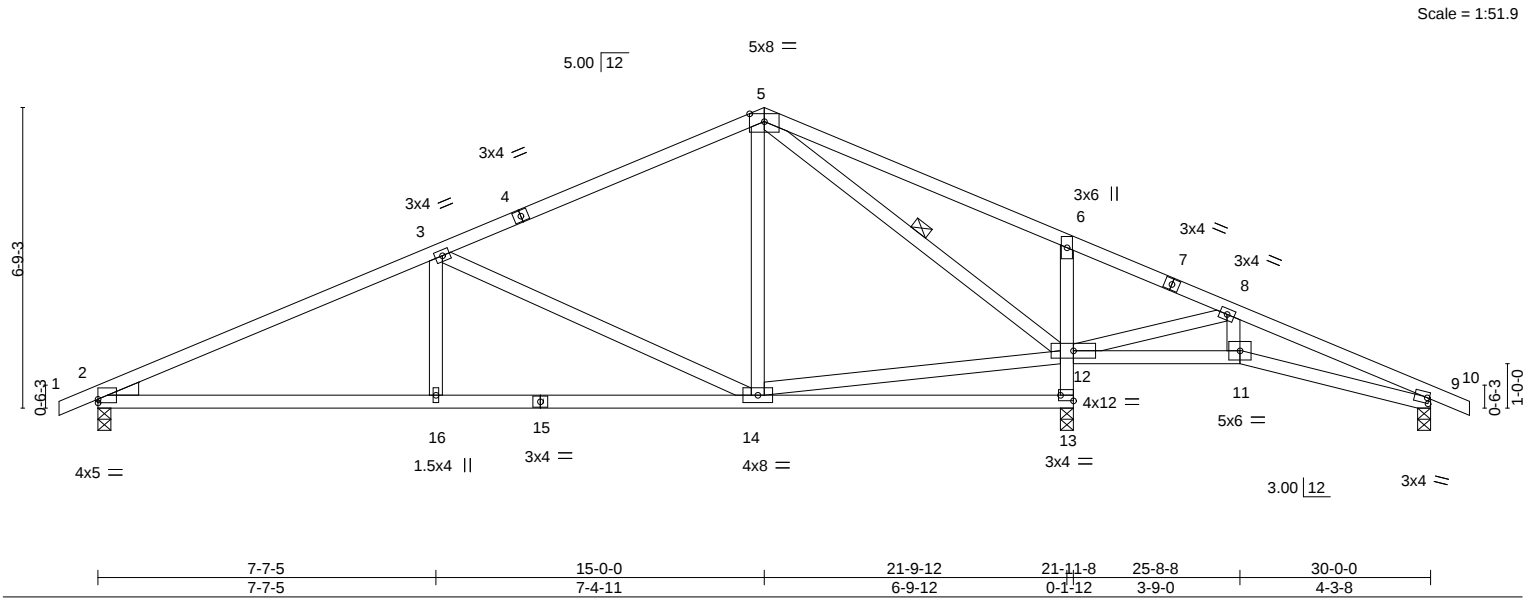


Plate Offsets (X,Y)--		[2:0-0-0,0-0-15], [9:0-0-10,0-1-8], [13:Edge,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL 25.0		2-0-0		TC 0.54		in (loc) l/defl L/d		MT20		197/144	
TCDL 10.0		Plate Grip DOL 1.15		BC 0.48		Vert(LL) -0.07 16-19 >999 240					
BCLL 0.0		Lumber DOL 1.15		WB 0.99		Vert(CT) -0.15 16-19 >999 180					
BCDL 10.0		Rep Stress Incr YES		Matrix-AS		Horz(CT) 0.03 9 n/a n/a					
		Code IRC2018/TPI2014						Weight: 120 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt 5-12
WEDGE			
Left: 2x4 SP No.3			

REACTIONS.		(size) 2=0-3-8, 13=0-3-8, 9=0-3-8
		Max Horz 2=-62(LC 9)
		Max Uplift 2=-46(LC 8), 13=-24(LC 9), 9=-25(LC 9)
		Max Grav 2=997(LC 1), 13=1520(LC 1), 9=320(LC 20)

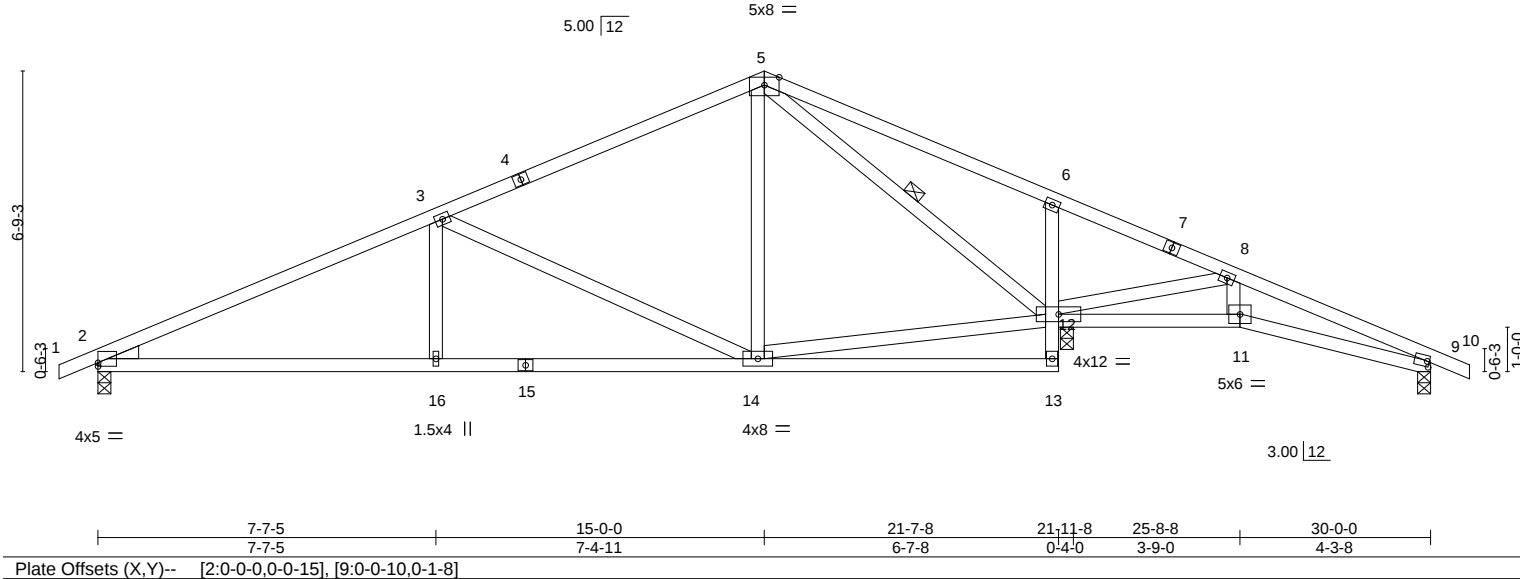
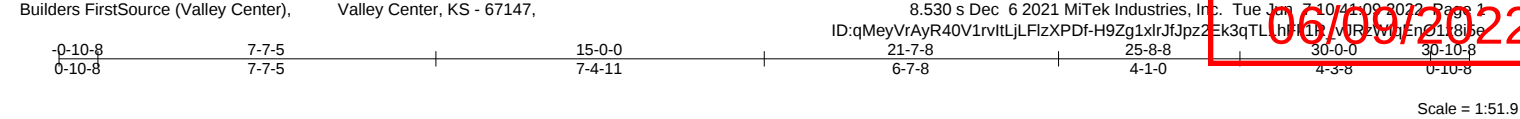
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1667/86, 3-5=-830/68, 5-6=0/389, 6-8=-1/405, 8-9=-404/24
BOT CHORD	2-16=-79/1453, 14-16=-79/1453, 12-13=-1451/52, 6-12=-447/110, 11-12=0/295, 9-11=0/338
WEBS	3-16=0/293, 3-14=-892/111, 5-14=0/488, 12-14=0/638, 5-12=-1184/0, 8-12=-587/53

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical 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.
 - Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13, 9.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 8,2022

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES/STONE CREEK #132
3184769	D04	Roof Special	2	1	NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					DEVELOPMENT SERVICES
Job Reference (optional)					LEE'S SUMMIT, MISSOURI



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 0.54	Vert(LL)	-0.06 16-19	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.48	Vert(CT)	-0.15 16-19	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.99	Horz(CT)	0.03 9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 120 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 5-12
WEDGE	
Left: 2x4 SP No.3	

REACTIONS.	(size) 2=0-3-8, 12=0-3-8, 9=0-3-8
	Max Horz 2=62(LC 8)
	Max Uplift 2=-46(LC 8), 12=-23(LC 9), 9=-26(LC 9)
	Max Grav 2=971(LC 1), 12=1550(LC 1), 9=318(LC 20)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1607/86, 3-5=-765/69, 5-6=0/460, 6-8=-1/470, 8-9=-403/29
BOT CHORD	2-16=-79/1398, 14-16=-79/1398, 6-12=-436/108, 11-12=0/295, 9-11=0/338
WEBS	3-16=0/295, 3-14=-895/110, 5-14=0/484, 12-14=0/587, 5-12=-1219/2, 8-12=-634/60

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 3x4 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) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 9.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 8,2022

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES/STONE CREEK #132 MO
3184769	E03	GABLE	1	1	DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)

RELEASE FOR CONSTRUCTION

06/09/2022

LEE'S SUMMIT, MISSOURI

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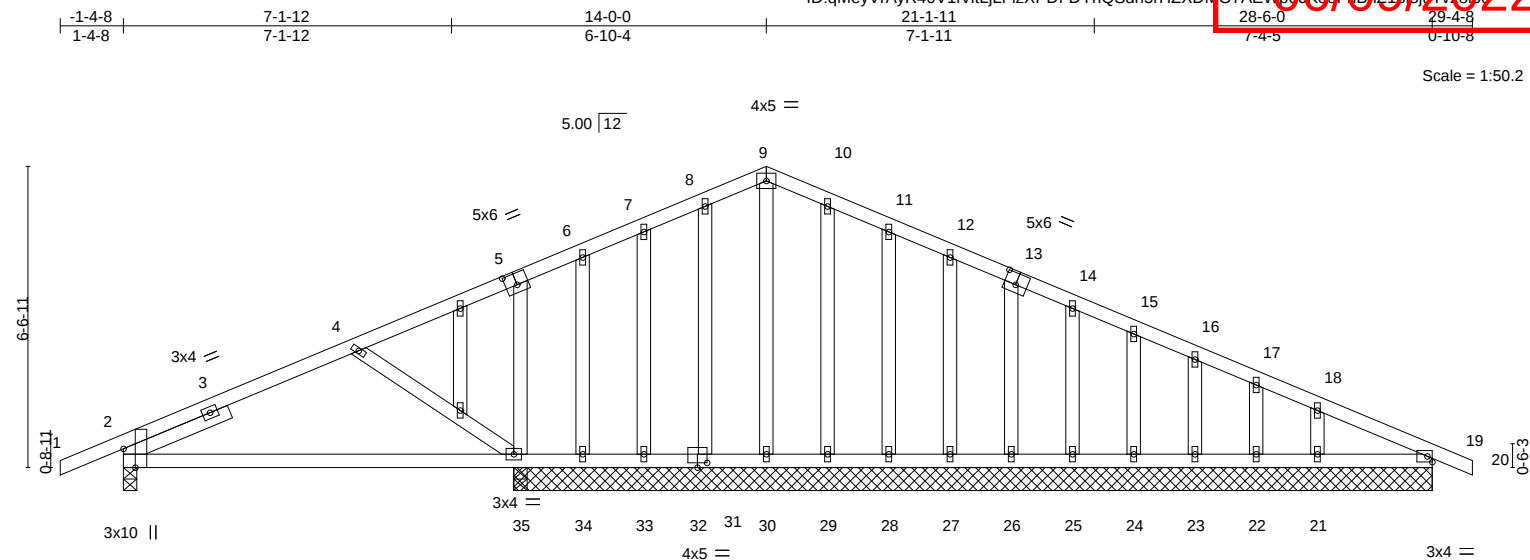


Plate Offsets (X, Y)--	[2:0-4-15,Edge], [5:0-3-0,0-3-0], [13:0-3-0,0-3-0], [32:0-2-8,0-1-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.22	Vert(LL)	-0.08 35-40	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.43	Vert(CT)	-0.17 35-40	>617	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.01 2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 142 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	
OTHERS 2x4 SPF No.2	
SLIDER Left 2x4 SPF No.2 2-6-0	

REACTIONS.	All bearings 20-0-0 except (jt=length) 2=0-3-8.
(lb) - Max Horz	2=-103(LC 9)
Max Uplift	All uplift 100 lb or less at joint(s) 2, 19, 35, 31, 33, 29, 28, 27, 26, 25, 24, 23, 22, 21 except 34=-164(LC 3)
Max Grav	All reactions 250 lb or less at joint(s) 19, 30, 31, 33, 29, 28, 27, 26, 25, 24, 23, 22, 21, 19 except 2=491(LC 1), 35=580(LC 21), 35=580(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-581/87
BOT CHORD	2-35=-82/340
WEBS	4-35=-367/145

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical 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.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 19, 35, 31, 33, 29, 28, 27, 26, 25, 24, 23, 22, 21, 19 except (jt=lb) 34=164.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 8, 2022

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**

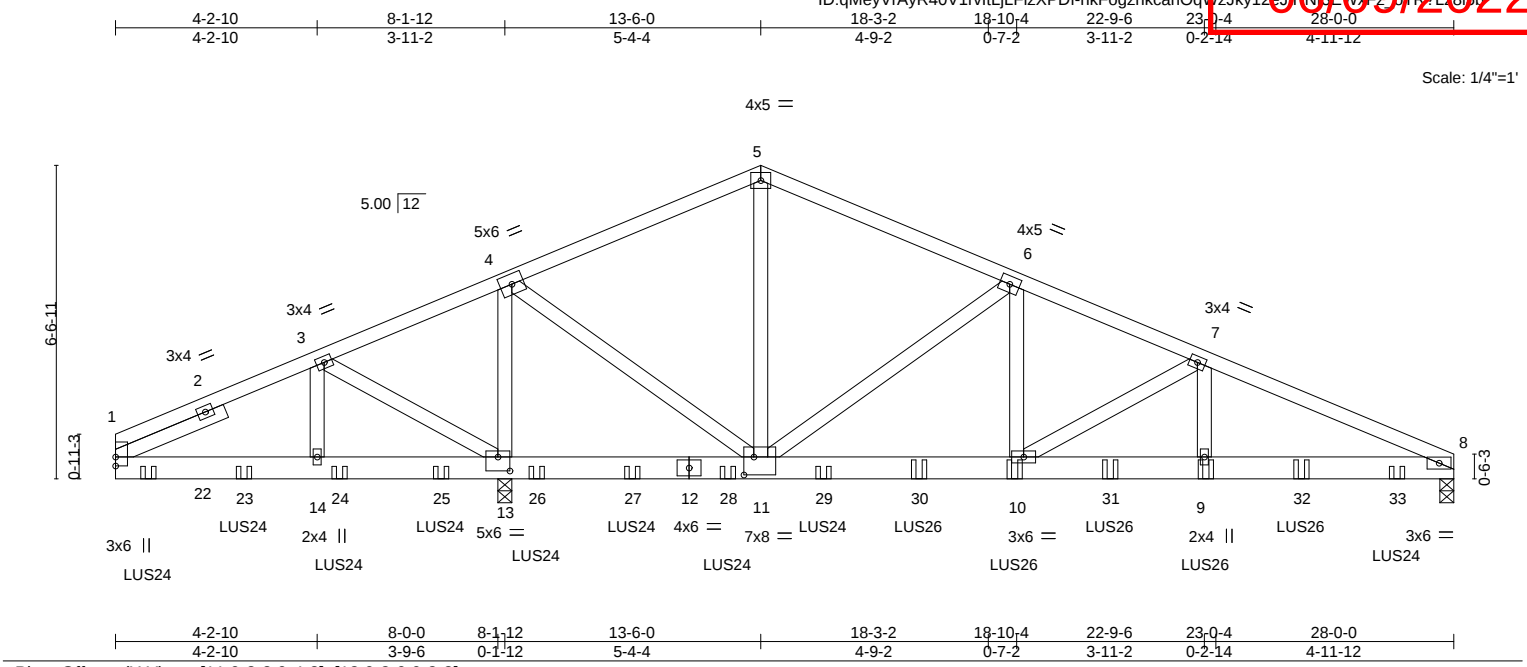
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES/STONE CREEK #132 MOVED FOR PLAN REVIEW
3184769	E04	COMMON GIRDER	1	2	DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)

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ID:qMeyVrAyR40V1rvltLjLFzXPdF-hkFogznkcahOqWzJky12eJN3E-W-F-01RPL180p
06/09/2022



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 0.35	Vert(LL)	-0.11 9-10	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.13 10-11	>999	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.45	Horz(CT)	0.02 8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 292 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-2 oc purlins.
BOT CHORD 2x6 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2	
SLIDER Left 2x4 SPF No.2 2-6-0	

REACTIONS.	(size) 8=0-3-8, 13=0-3-8
	Max Horz 13=-63(LC 9)
	Max Uplift 8=-845(LC 26), 13=-2142(LC 27)
	Max Grav 8=3196(LC 20), 13=5237(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-3=-643/626, 3-4=-1555/1256, 4-5=-2117/118, 5-6=-2176/109, 6-7=-4336/1323, 7-8=-5776/2203
BOT CHORD	1-14=-512/571, 13-14=-512/571, 11-13=-1107/1430, 10-11=-1210/3962, 9-10=-2013/5275, 8-9=-2013/5275
WEBS	3-14=-865/285, 3-13=-690/995, 4-13=-3726/1127, 4-11=-1323/3644, 5-11=-209/1383, 6-10=-1498/1978, 6-11=-2514/1529, 7-9=-911/1047, 7-10=-1533/932

- NOTES-**
- 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=845, 13=2142.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Use Simpson Strong-Tie LUS24 (4-SD9112 Girder, 2-SD9212 Truss, Single Ply Girder) or equivalent spaced at 2-1-8 oc max. starting at 0-8-4 from the left end to 6-9-12 to connect truss(es) to back face of bottom chord.
 - Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 14-0-0 oc max. starting at 8-9-12 from the left end to 26-9-12 to connect truss(es) to back face of bottom chord.
 - Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent at 14-9-12 from the left end to connect truss(es) to back face of bottom chord.
 - Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 6-9-12 from the left end to 24-9-12 to connect truss(es) to back face of bottom chord.



June 8, 2022

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES/STONE CREEK #132 MO
3184769	E04	COMMON GIRDER	1	2	DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 7 10:44:13 2022 Page 2
ID:qMeyVrAyR40V1rvltLjLFzXPDf-9wpAtJoMNupFSgYVW/fYIBWQ9r307FOY69SC2Xo48l5a

NOTES-

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

LOAD CASE(S) Standard

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

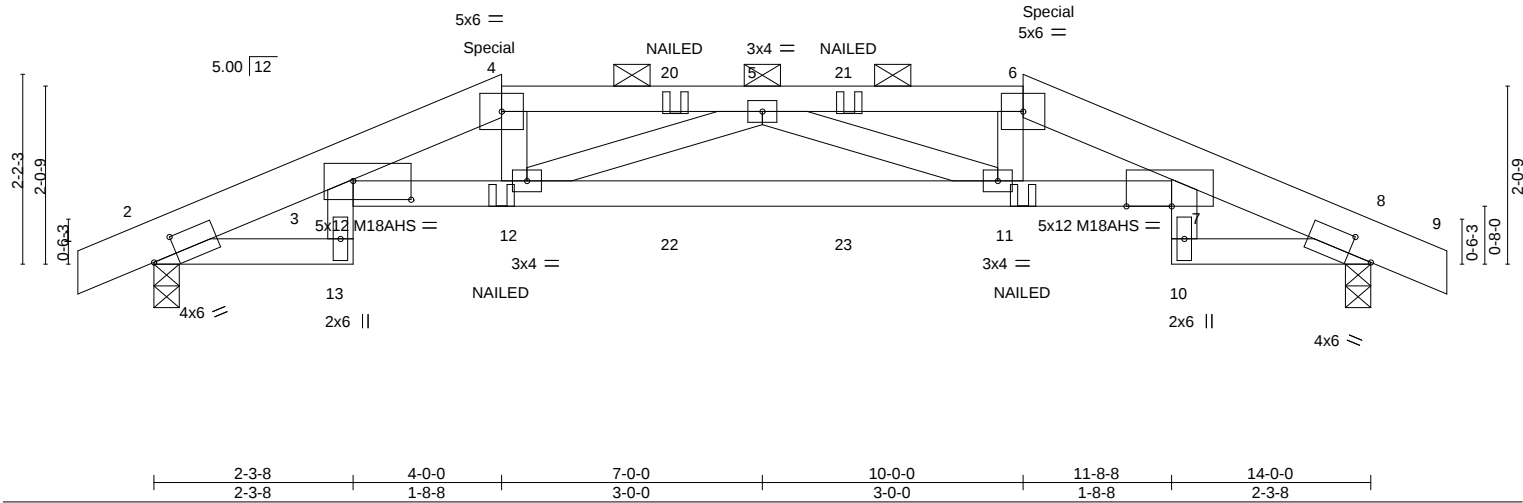
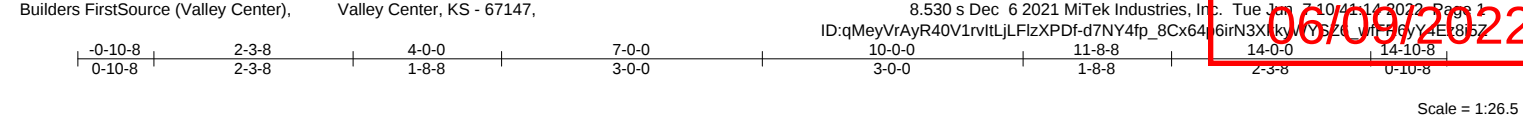
Uniform Loads (plf)

Vert: 1-5=-70, 5-8=-70, 15-19=-20

Concentrated Loads (lb)

Vert: 10=-449(B) 9=-449(B) 22=-126(B) 23=-123(B) 24=-123(B) 25=-123(B) 26=-574(B) 27=-574(B) 28=-574(B) 29=-776(B) 30=-449(B) 31=-449(B) 32=-449(B) 33=-629(B)

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES/STONE CREEK #132 MOVED FOR PLAN REVIEW
3184769	G01	Hip Girder	1	1	DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)



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 0.82	Vert(LL)	-0.21 11-12	>797	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.99	Vert(CT)	-0.40 11-12	>417	180	M18AHS	142/136
BCLL 0.0	Rep Stress Incr	NO	WB 0.07	Horz(CT)	0.26 8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 52 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF 2100F 1.8E *Except* 4-6: 2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-7-10 oc purlins, except
BOT CHORD	2x4 SPF No.2 *Except* 3-7: 2x4 SPF 1650F 1.5E		2-0-0 oc purlins (3-4-0 max.): 4-6.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.	
(size)	2=0-3-8, 8=0-3-8
Max Horz	2=-19(LC 9)
Max Uplift	2=-51(LC 4), 8=-51(LC 5)
Max Grav	2=962(LC 1), 8=962(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	3-15=-430/45, 3-4=-2740/134, 4-5=-2776/134, 5-6=-2776/138, 6-7=-2740/137, 7-8=-430/42
BOT CHORD	3-12=-105/2758, 11-12=-165/3069, 7-11=-106/2758
WEBS	5-12=-350/72, 5-11=-350/72

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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 (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 138 lb down and 74 lb up at 4-0-0, and 138 lb down and 74 lb up at 10-0-0 on top chord, and 54 lb down and 22 lb up at 6-0-0, and 54 lb down and 22 lb up at 8-0-0 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	
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, 6-7=-70, 7-9=-70, 13-14=-20, 3-7=-20, 10-17=-20	

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES/STONE CREEK #132 MO
3184769	G01	Hip Girder	1	1	DEVELOPMENT SERVICES
Job Reference (optional)					LEE'S SUMMIT, MISSOURI

Builders FirstSource (Valley Center),
Valley Center, KS - 67147,
8.530 s Dec 6 2021 MiTek Industries, Inc.
Tue Jun 7 10:44:14 2022 Page 2
ID:qMeyVrAyR40V1rvItLjLFzXPdF-d7NY4fp_8Cx64h6irN3XlkyfYSZUvMfH6y4E85Z

RELEASE FOR CONSTRUCTION
MODIFIED FOR PLAN REVIEW
06/09/2022

LOAD CASE(S) Standard
 Concentrated Loads (lb)
 Vert: 4=-65(F) 6=-65(F) 12=-123(F=-69) 11=-123(F=-69) 20=-27(F) 21=-27(F) 22=-54 23=-54

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES/STONE CREEK #132 MO
3184769	G02	Hip	1	1	DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)

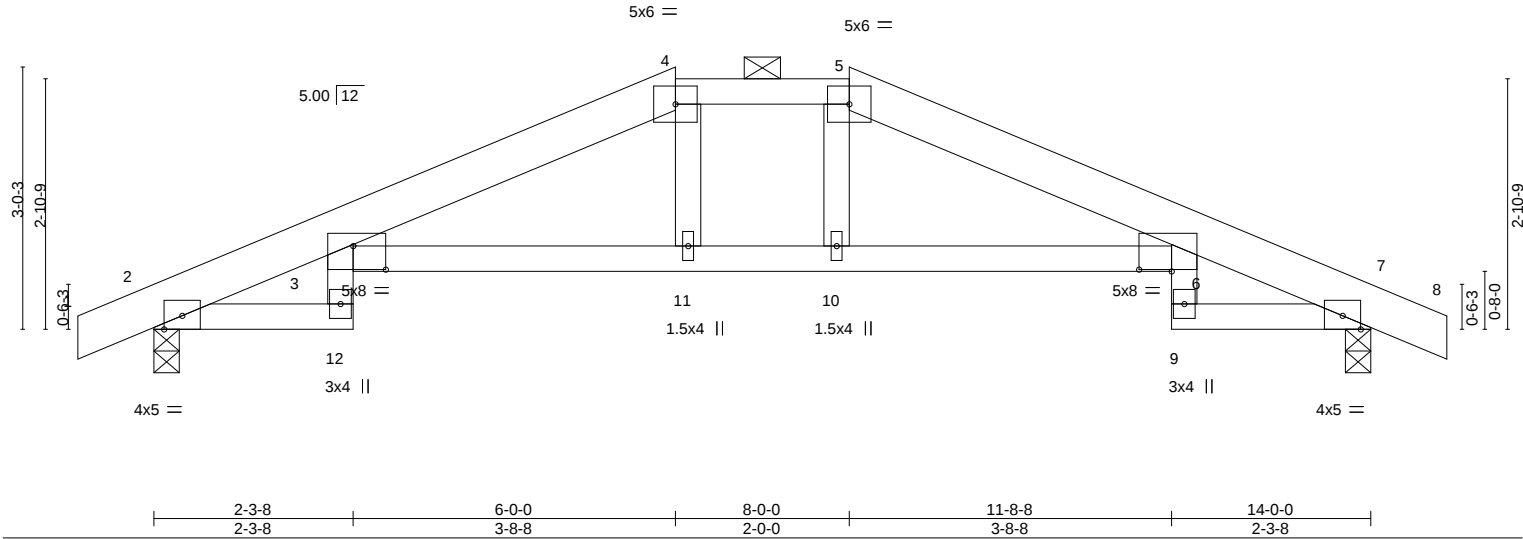
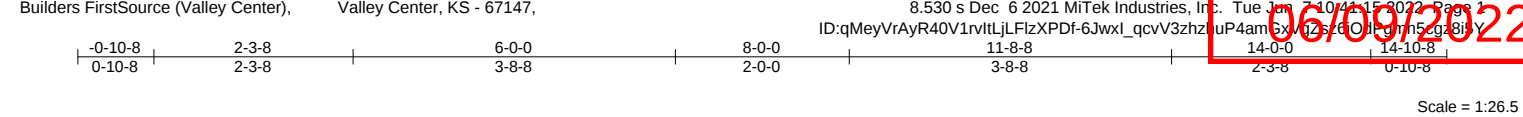


Plate Offsets (X,Y)-- [3:0-4-8,0-3-4], [6:0-4-8,0-0-4]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.86	Vert(LL)	-0.17 3-11	>963	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.75	Vert(CT)	-0.32 3-11	>522	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.24 7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 51 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF No.2 *Except*	TOP CHORD	Structural wood sheathing directly applied, except
	4-5: 2x4 SPF No.2		2-0-0 oc purlins (5-1-2 max.): 4-5.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2		

REACTIONS.	
(size)	2=0-3-8, 7=0-3-8
Max Horz	2=-27(LC 9)
Max Uplift	2=-18(LC 8), 7=-18(LC 9)
Max Grav	2=694(LC 1), 7=694(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	3-14=-326/29, 3-4=-1266/7, 4-5=-1211/9, 5-6=-1266/7, 6-7=-326/25
BOT CHORD	3-11=0/1208, 10-11=0/1211, 6-10=0/1208

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 8,2022

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES/STONE CREEK #13210
3184769	G03	Common	1	1	52395565
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 7 10:44:16 2022 Page 1
Job Reference (optional)					ID:qMeyVrAyR40V1rvltLjLFizXPdF-aVUJVkqEgpBqJ7C5zo5?pb24GCKSGA-CORRf67281X

RELEASE FOR CONSTRUCTION
NOT FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

06/09/2022

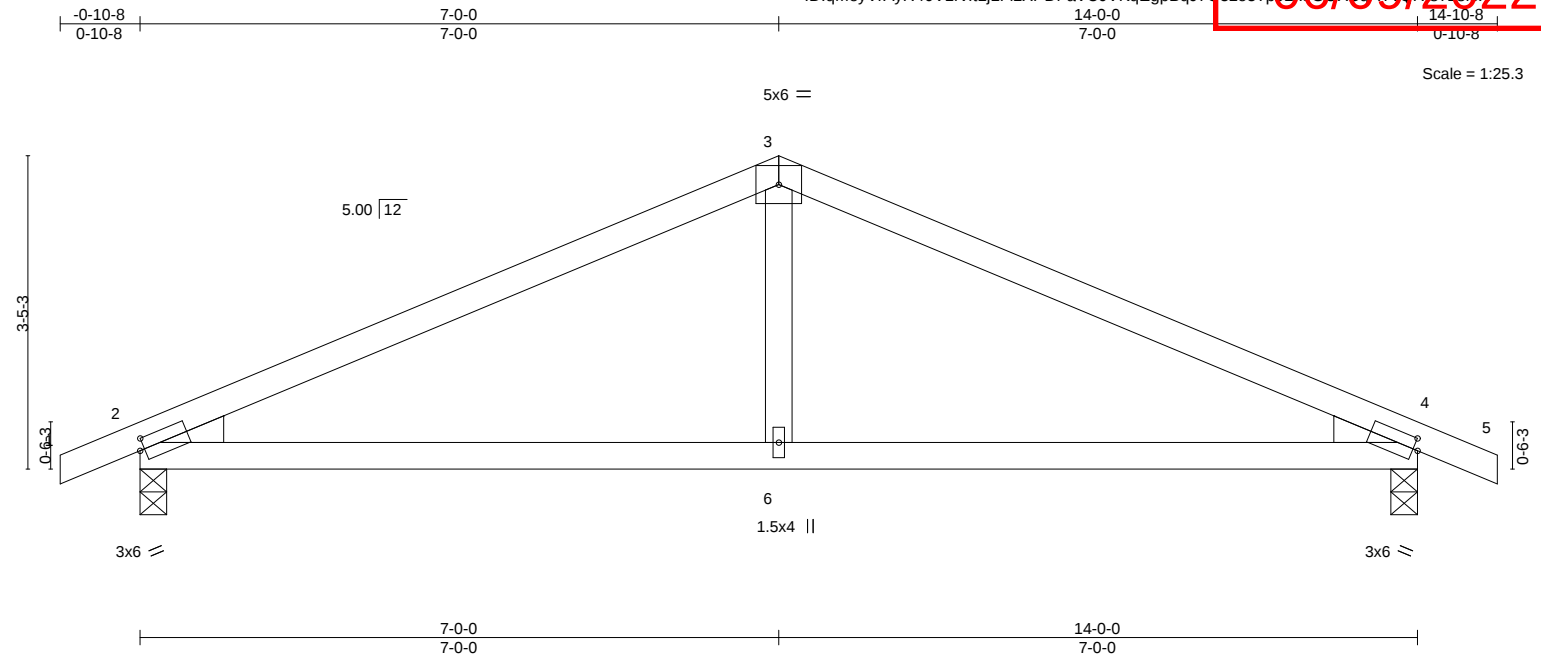


Plate Offsets (X,Y)--		[2:0-0-10,0-1-8], [4:0-0-10,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.51	DEFL. in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.41	Vert(LL) -0.07 6-12 >999 240
BCLL 0.0	Rep Stress Incr YES	WB 0.07	Vert(CT) -0.12 6-9 >999 180
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Horz(CT) 0.01 2 n/a n/a
			PLATES MT20 GRIP 197/144
			Weight: 41 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	
WEDGE	
Left: 2x4 SP No.3 , Right: 2x4 SP No.3	

REACTIONS.	(size) 2=0-3-8, 4=0-3-8
	Max Horz 2=-31(LC 9)
	Max Uplift 2=-23(LC 8), 4=-23(LC 9)
	Max Grav 2=691(LC 1), 4=691(LC 1)

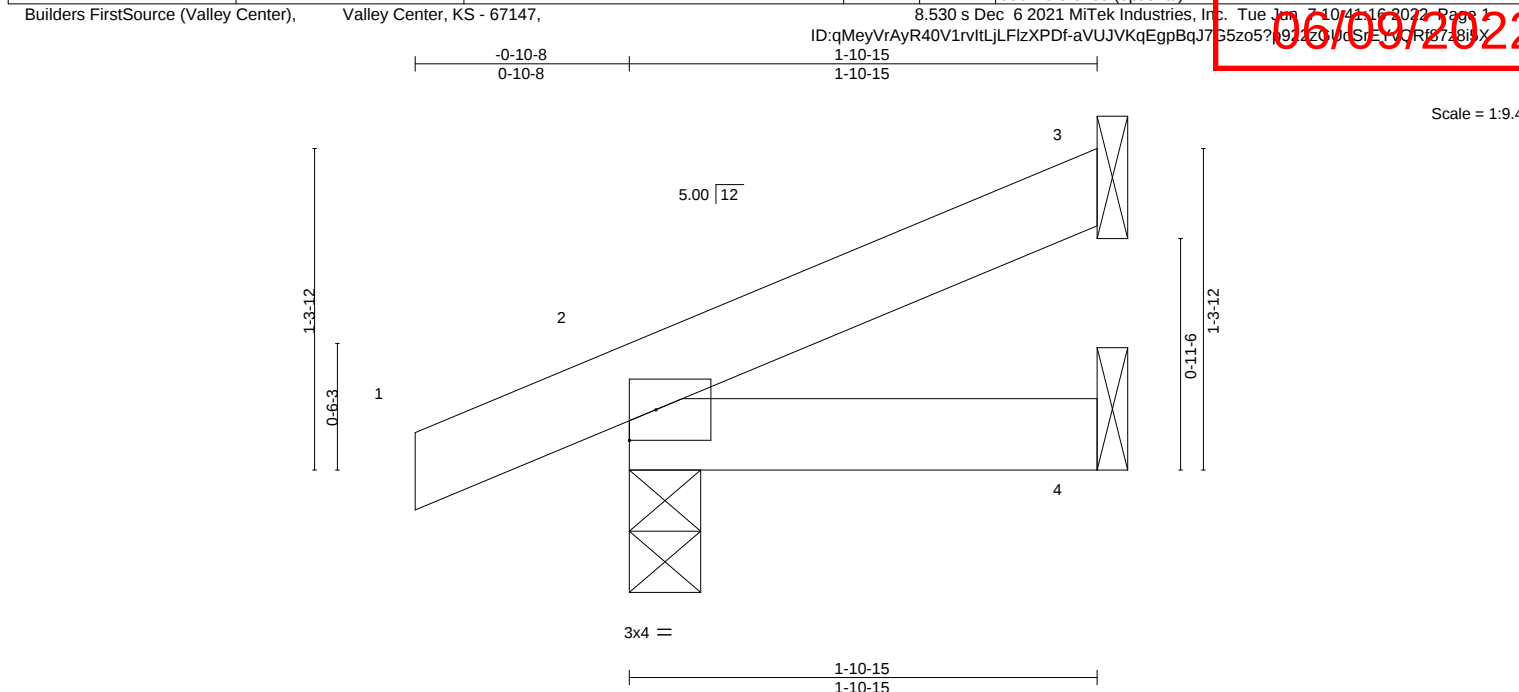
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-964/34, 3-4=-964/34
BOT CHORD	2-6=0/808, 4-6=0/808
WEBS	3-6=0/303

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
 - 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 8, 2022

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES/STONE CREEK #132
3184769	J01	Jack-Open	4	1	MODIFIED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					DEVELOPMENT SERVICES
8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 7 10:44:16 2022 Page 1					LEE'S SUMMIT, MISSOURI
Job Reference (optional)					152395566



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)	-0.00	7	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	7	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 6 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=28(LC 8)
Max Uplift 3=-13(LC 8), 2=-14(LC 4)
Max Grav 3=52(LC 1), 2=161(LC 1), 4=33(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical 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) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 8, 2022

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	SUMMIT HOMES/STONE CREEK #32 MOVED FOR PLAN REVIEW
3184769	J02	Jack-Open	4	1	DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jan 10 10:44:11 2022 Page 1

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RELEASE FOR CONSTRUCTION

LEE'S SUMMIT, MISSOURI

06/09/2022

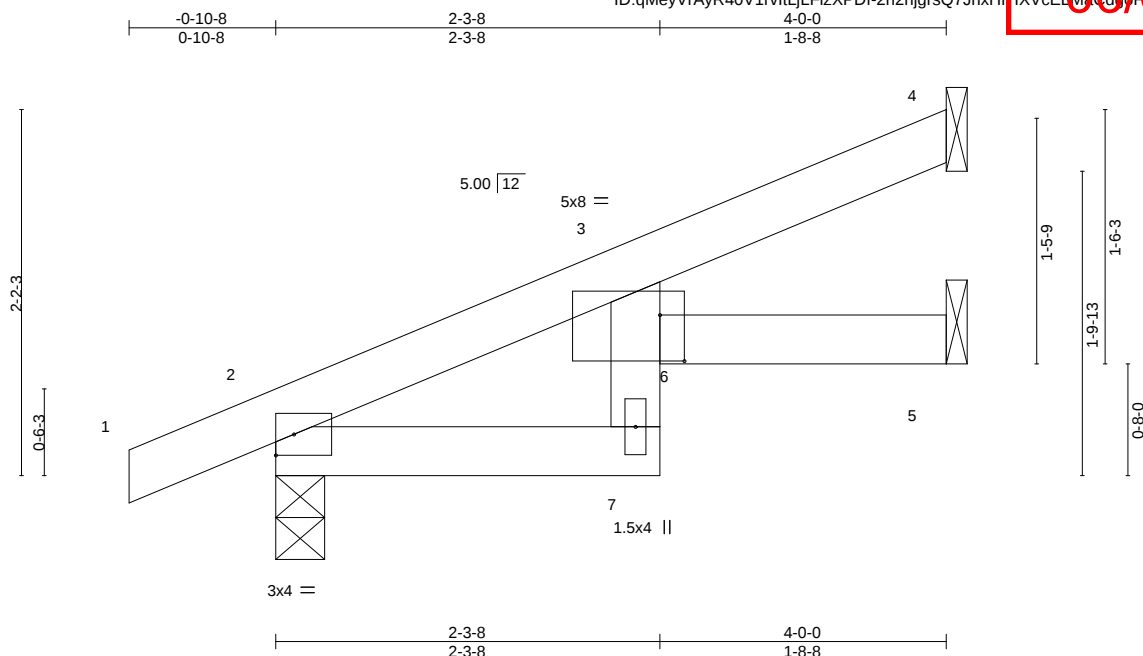


Plate Offsets (X,Y)--		[3:0-1-12,0-3-5]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	2-0-0	TC 0.12	in (loc) l/defl L/d
TCDL 10.0	Plate Grip DOL 1.15	BC 0.19	Vert(LL) -0.01 6 >999 240
BCLL 0.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.02 6 >999 180
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.01 5 n/a n/a
	Code IRC2018/TPI2014		
			PLATES MT20
			GRIP 197/144
			Weight: 12 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=49(LC 8)
Max Uplift 4=-18(LC 8), 2=-7(LC 8), 5=-2(LC 8)
Max Grav 4=97(LC 1), 2=245(LC 1), 5=74(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical 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) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 8, 2022

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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	SUMMIT HOMES/STONE CREEK #132 MO
3184769	L1	GABLE	1	1	DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)

RELEASE FOR CONSTRUCTION

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LEE'S SUMMIT, MISSOURI

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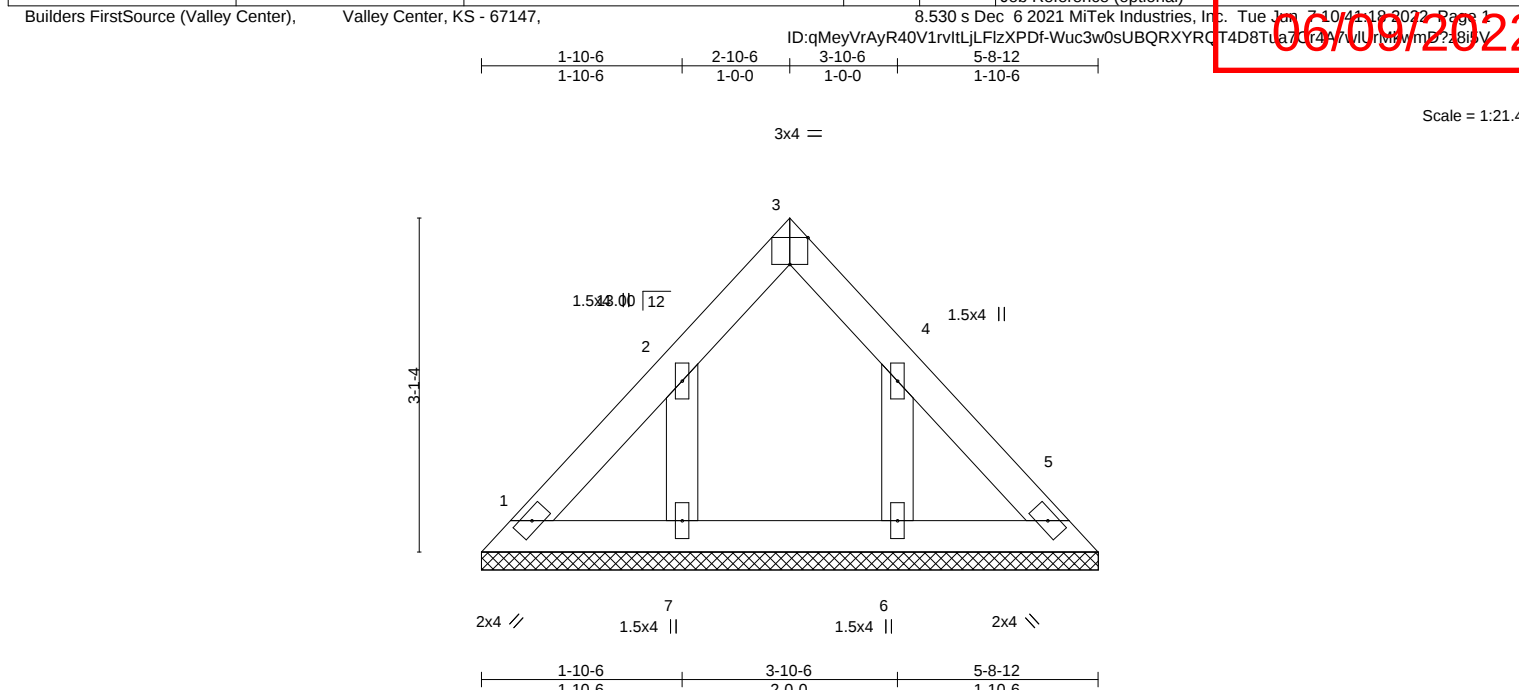


Plate Offsets (X,Y)--		[3:Edge,0-3-0]		1-10-0		2-0-0		1-10-0			
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc) l/defl L/d	
TCLL	25.0	Plate Grip DOL		1.15		TC 0.03		Vert(LL)		n/a - n/a 999	
TCDL	10.0	Lumber DOL		1.15		BC 0.02		Vert(CT)		n/a - n/a 999	
BCLL	0.0	Rep Stress Incr		YES		WB 0.02		Horz(CT)		0.00 5 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014				Matrix-P					
										Weight: 19 lb FT = 20%	
										MT20 197/144	

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-8-12 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS.	All bearings 5-8-12.
(lb) - Max Horz	1=53(LC 4)
Max Uplift	All uplift 100 lb or less at joint(s) 6, 7
Max Grav	All reactions 250 lb or less at joint(s) 1, 5, 6, 7

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
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- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 7.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 8, 2022

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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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

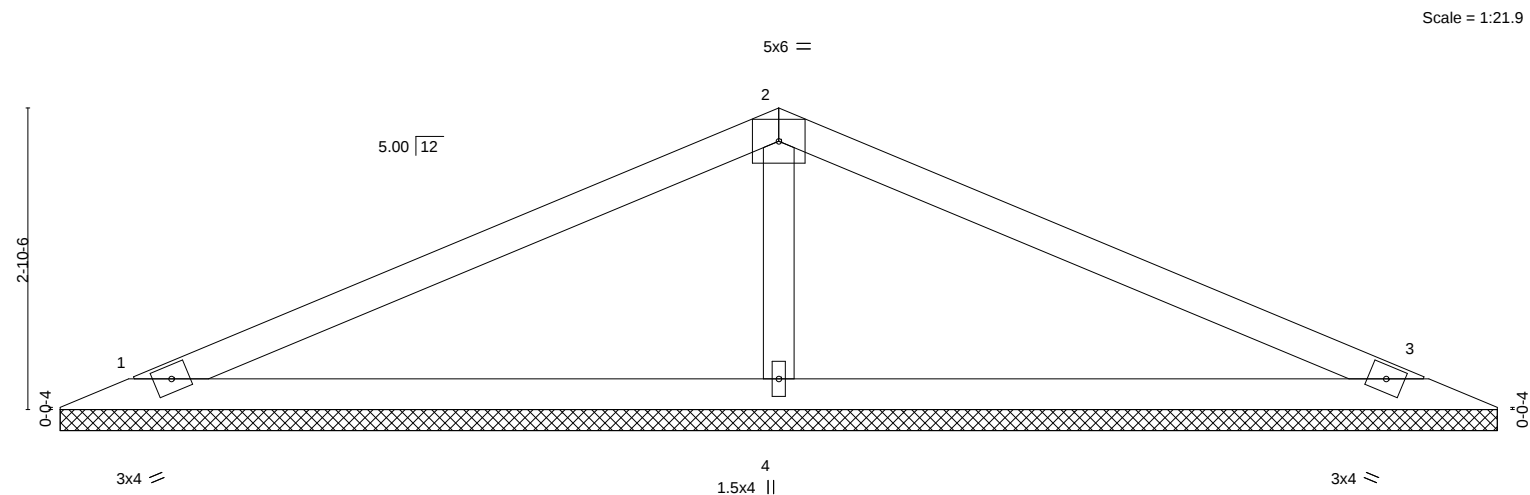


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES/STONE CREEK #132100
3184769	V01	Valley	1	1	DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)

RELEASE FOR CONSTRUCTION
 06/09/2022
 LEE'S SUMMIT, MISSOURI

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 1 10:44:18 2022 Page 1
 ID:qMeyVrAyR40V1rvltLjLFizXPdf-Wuc3w0sUBQRXYRQT4D8Tua7f3b465WkkrwWmD2288V



0-0-10	13-9-0
0-0-10	13-8-6

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 0.54	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 33 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 2x4 SPF No.2	

REACTIONS. (size) 1=13-7-13, 3=13-7-13, 4=13-7-13
 Max Horz 1=24(LC 8)
 Max Uplift 1=18(LC 8), 3=22(LC 9)
 Max Grav 1=249(LC 19), 3=249(LC 20), 4=616(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-432/48

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

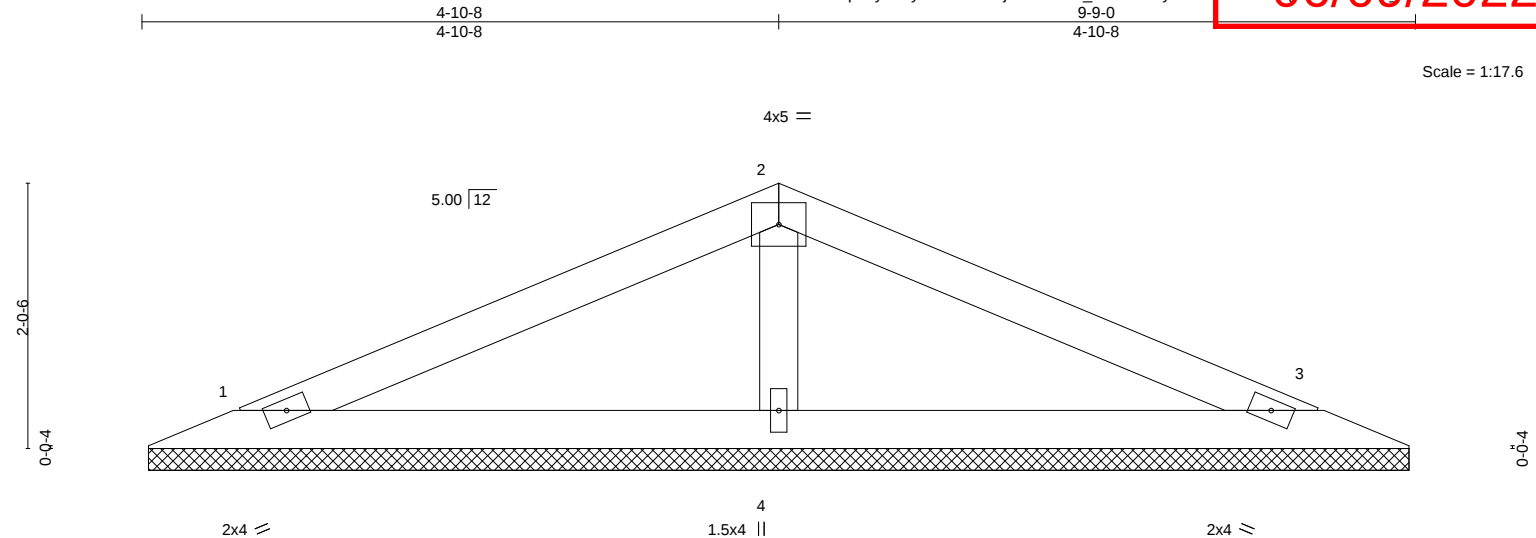


June 8, 2022

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES/STONE CREEK #132 MO
3184769	V02	Valley	1	1	DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)

RELEASE FOR CONSTRUCTION
 06/09/2022
 LEE'S SUMMIT, MISSOURI

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 8 10:44:19 2022 Page 1
 ID:qMeyVrAyR40V1rvltLjLFizXPdf_4AR8Mt7ykZOA0?fewfiEnd/RTU/ficM/00f/JS/88U



0-0-10	9-9-0
0-0-10	9-8-6

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 0.23	Vert(LL)	n/a	-	n/a	999	MT20
BCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	n/a	-	n/a	999	197/144
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						
									Weight: 23 lb FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 OTHERS 2x4 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=9-7-13, 3=9-7-13, 4=9-7-13
 Max Horz 1=-16(LC 9)
 Max Uplift 1=-12(LC 8), 3=-15(LC 9)
 Max Grav 1=168(LC 19), 3=168(LC 20), 4=415(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-291/32

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 8, 2022

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

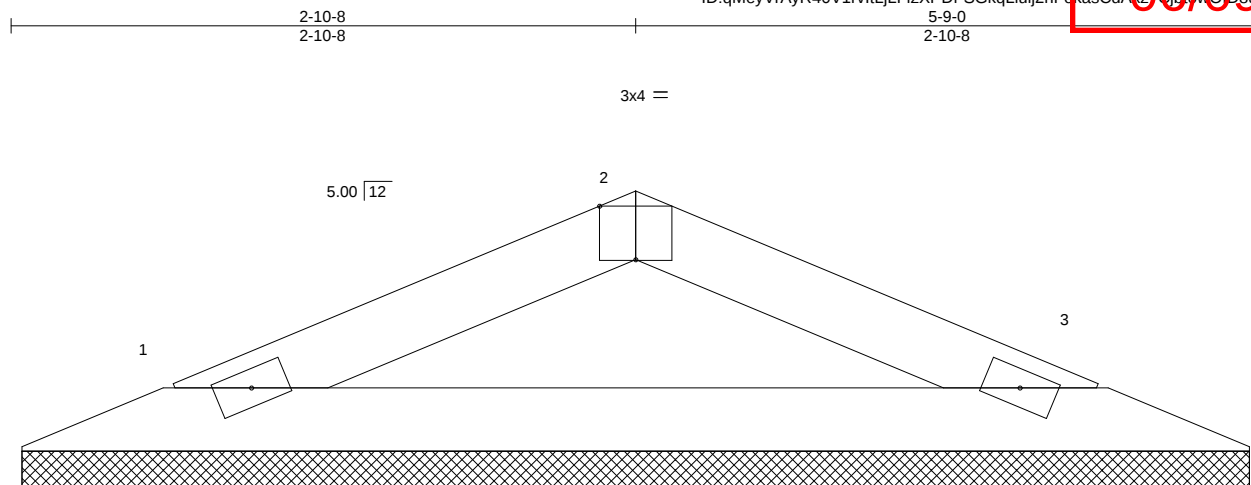
MiTek
 16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES/STONE CREEK #132 MO
3184769	V03	Valley	1	1	DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					LEE'S SUMMIT, MISSOURI

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 14 10:44:20 2022 Page 1
ID:qMeyVrAyR40V1rvltLjLFizXPdf-SGkqLiulj2hFokasCdAzcZjibrowOjDsc2Pstmlu815T

RELEASE FOR CONSTRUCTION

06/09/2022



Scale = 1:10.6

Plate Offsets (X,Y)-- [2:0-2:0,Edge]		5-9-0	
LOADING (psf)		DEFL. in (loc) l/defl L/d	
TCLL 25.0	SPACING- 2-0-0	TC 0.08	Vert(LL) n/a - n/a 999
TCDL 10.0	Plate Grip DOL 1.15	BC 0.19	Vert(CT) n/a - n/a 999
BCLL 0.0	Lumber DOL 1.15	WB 0.00	Horz(CT) 0.00 3 n/a n/a
BCDL 10.0	Rep Stress Incr YES	Matrix-P	
	Code IRC2018/TPI2014		
		PLATES GRIP	
		MT20 197/144	
		Weight: 12 lb FT = 20%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=5-7-13, 3=5-7-13
Max Horz 1=-8(LC 9)
Max Uplift 1=-5(LC 8), 3=-5(LC 9)
Max Grav 1=191(LC 1), 3=191(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 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 8, 2022

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Chesterfield, MO 63017

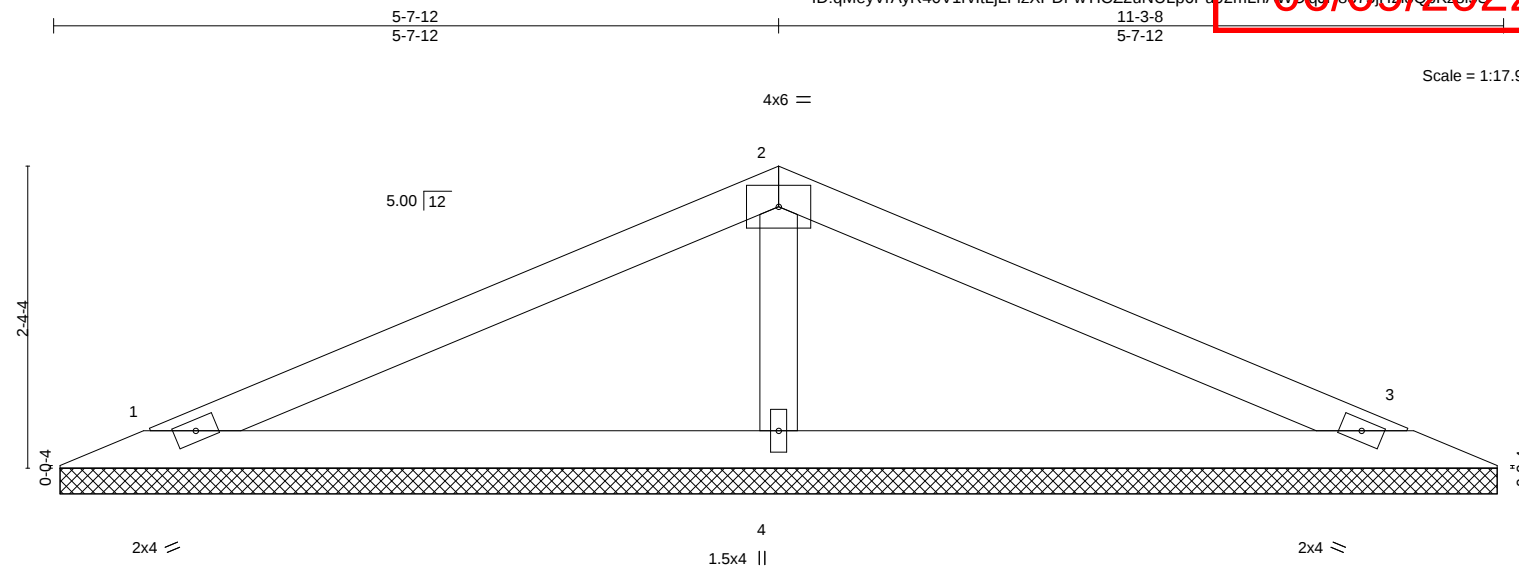
Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES/STONE CREEK #132
3184769	V06	Valley	1	1	MODIFIED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					DEVELOPMENT SERVICES
Job Reference (optional)					LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

152395573

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 14 10:44:21 2022 Page 1
ID:qMeyVrAyR40V1rvltLjLFizXPDf-wTICZ2uNULp6Pu92mLhAWUq1-81711439Qpk2818S

06/09/2022



0-0-10				11-3-8					
0-0-10				11-2-14					
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	0.33	Vert(LL)	n/a - n/a	999	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	n/a - n/a	999	
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00 3 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S					
								Weight: 27 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x4 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=11-2-5, 3=11-2-5, 4=11-2-5
Max Horz 1=19(LC 8)
Max Uplift 1=14(LC 8), 3=17(LC 9)
Max Grav 1=199(LC 19), 3=199(LC 20), 4=493(LC 1)

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

WEBS 2-4=-345/38

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 8, 2022

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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Chesterfield, MO 63017

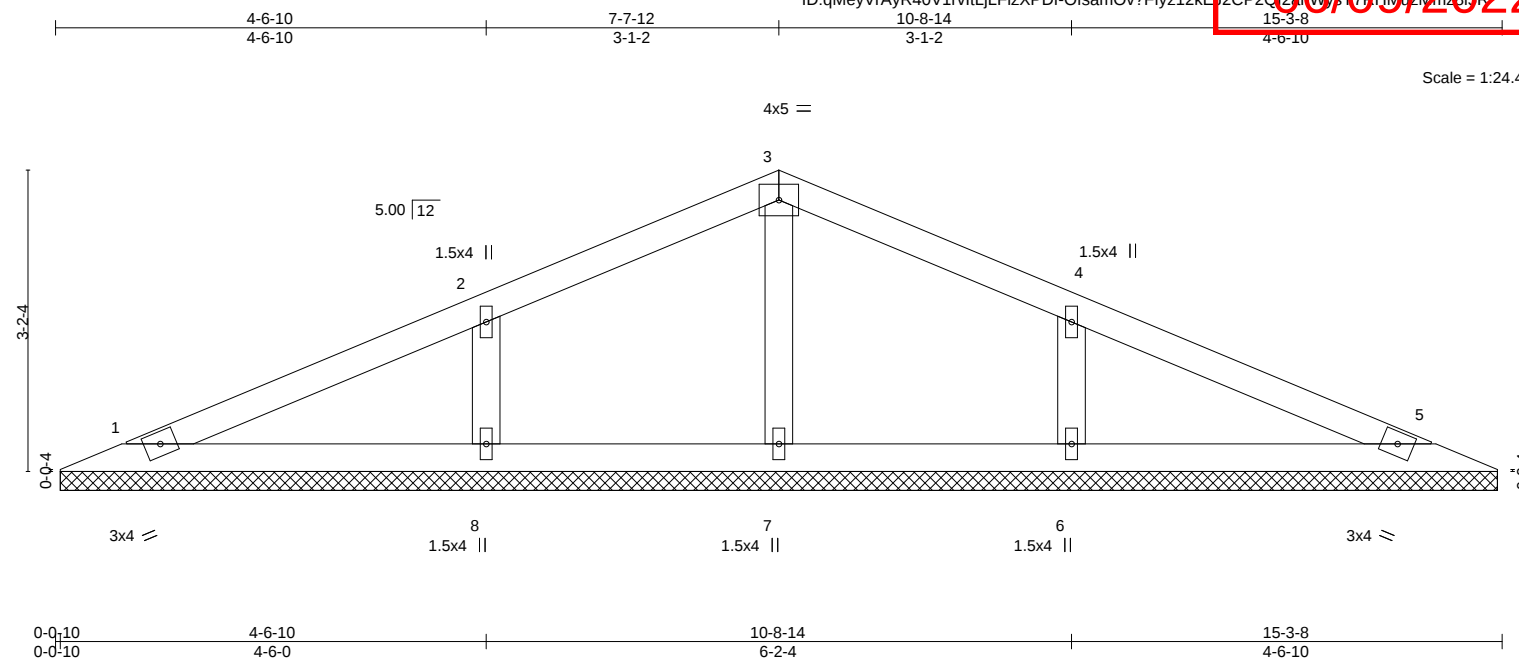
Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES/STONE CREEK #132 MOVED FOR PLAN REVIEW
3184769	V07	Valley	1	1	DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jan 11 10:44:27 2022 Page 1
ID:qMeyVrAyR40V1rvItLjLFzXPdF-OfsamOv?Ffyz12kE2CP2Q12JWV5N7FHWLZMm28R

RELEASE FOR CONSTRUCTION

LEE'S SUMMIT, MISSOURI

06/09/2022



0-0-10 0-0-10	4-6-10 4-6-0	10-8-14 6-2-4	15-3-8 4-6-10
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	2-0-0	TC 0.17	in (loc) l/defl L/d
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(LL) n/a - n/a 999
BCLL 0.0	Lumber DOL 1.15	WB 0.04	Vert(CT) n/a - n/a 999
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a
	Code IRC2018/TPI2014		
			PLATES MT20
			GRIP 197/144
			Weight: 40 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.
WEBS 2x4 SPF No.2	
OTHERS 2x4 SPF No.2	

REACTIONS. All bearings 15-2-5.
(lb) - Max Horz 1=27(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 5, 6, 8
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 6=381(LC 20), 8=381(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-6=-290/72, 2-8=-290/72

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6, 8.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 8, 2022

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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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



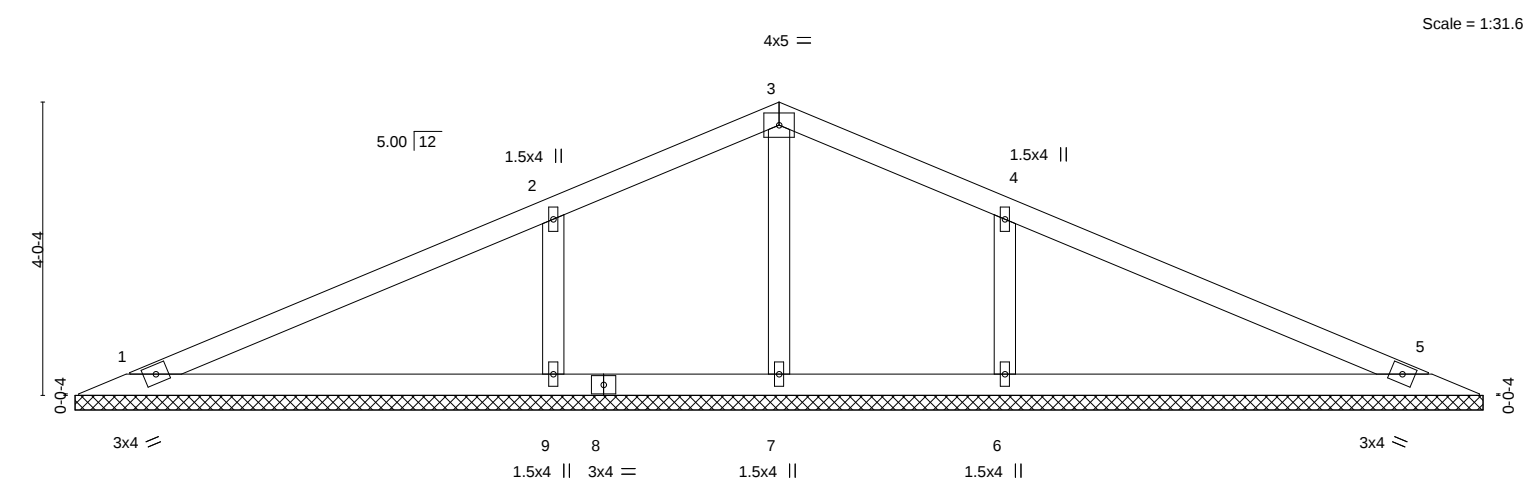
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES/STONE CREEK #13210
3184769	V08	GABLE	1	1	NOTED FOR PLAN REVIEW
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jun 14 10:44:23 2022 Page 1
Job Reference (optional)					DEVELOPMENT SERVICES
ID:qMeyVrAyR40V1rvitLjLFizXPDf-trPyzjwd0z4qfCRtmjebnq55561VwclWvDz88Q					LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

06/09/2022

3-7-12	4-6-10	6-6-10	9-7-12	12-8-14	15-7-12	19-3-8
3-7-12	0-10-14	2-0-0	3-1-2	3-1-2	2-10-14	3-7-12



3-7-12		4-6-10		6-6-10		12-8-14				15-7-12		19-3-8	
3-7-12		0-10-14		2-0-0		6-2-4				2-10-14		3-7-12	
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 0.42		Vert(LL) n/a - n/a 999				MT20		197/144	
TCDL	10.0	Lumber DOL 1.15		BC 0.23		Vert(CT) n/a - n/a 999							
BCLL	0.0	Rep Stress Incr YES		WB 0.06		Horz(CT) 0.00 5 n/a n/a							
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 53 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.
WEBS 2x4 SPF No.2	
OTHERS 2x4 SPF No.2	

REACTIONS.	All bearings 19-3-8.
(lb) - Max Horz	1=35(LC 9)
Max Uplift	All uplift 100 lb or less at joint(s) 1, 5, 9, 6
Max Grav	All reactions 250 lb or less at joint(s) 1, 5, 7 except 9=551(LC 1), 6=551(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS	2-9=-410/101, 4-6=-410/101

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 9, 6.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 8, 2022

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES/STONE CREEK #132100
3184769	V09	Valley	1	1	152395576
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			Job Reference (optional)		

RELEASE FOR CONSTRUCTION

NOTED FOR PLAN REVIEW

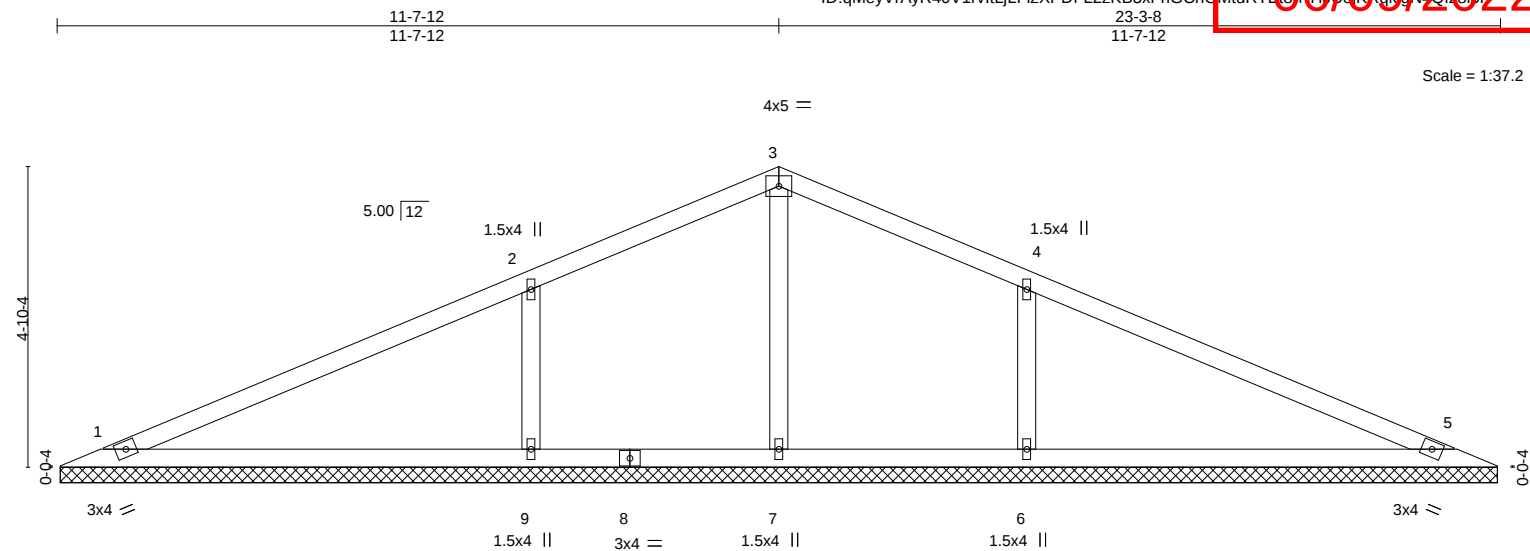
DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Jan 11 10:44:24 2022 Page 1

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06/09/2022



0-0-10	23-3-8					PLATES	GRIP
0-0-10	23-2-14					MT20	197/144
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.60	Vert(LL)	n/a	-	n/a
TCDL 10.0	Lumber DOL	1.15	BC 0.33	Vert(CT)	n/a	-	n/a
BCLL 0.0	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	5	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S				
				Weight: 64 lb FT = 20%			

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x4 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 23-2-5.
(lb) - Max Horz 1=43(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 9, 6
Max Grav All reactions 250 lb or less at joint(s) 7 except 1=255(LC 1), 5=255(LC 1), 9=656(LC 1), 6=656(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-489/121, 4-6=-489/121

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 9, 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 8, 2022

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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



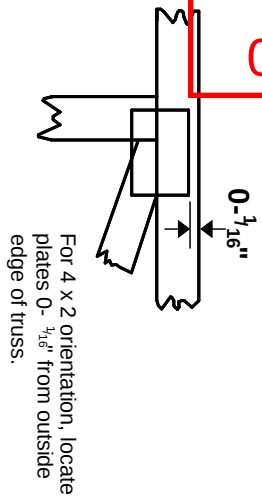
16023 Swingley Ridge Rd
Chesterfield, MO 63017

06/09/2022

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.



This symbol indicates the required direction of slots in connector plates.

* Plate location details available in **MiTek 20120** software or upon request.

PLATE SIZE

4 X 4

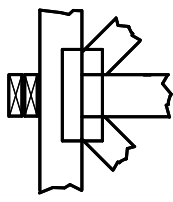
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



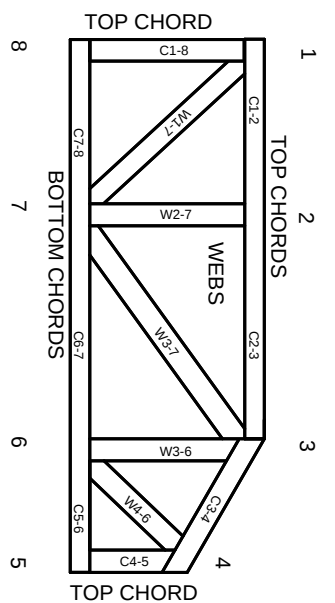
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

- ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
- DSB-89: Design Standard for Bracing.
- BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.