



MiTek USA, Inc.

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

Re: 3350377
Summit/2029 Meadows

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: I55348919 thru I55348955

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

Missouri COA: Engineering 001193



November 18, 2022

Johnson, Andrew ,Engineer

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

Job	Truss	Truss Type	Qty	Ply	Summit/2029 Meadows	I55348919
3350377	A1	GABLE	1	1	Job Reference (optional)	

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

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ID:3bdcgReV7IPqhseTN6p0GyyrBnO-paoWNMlw7Rj3c88LzRaeA_gvB0Z4Som4AAULUyIDad

14-3-12	24-5-4	40-0-8
14-3-12	10-1-8	15-7-4

Scale = 1:72.1

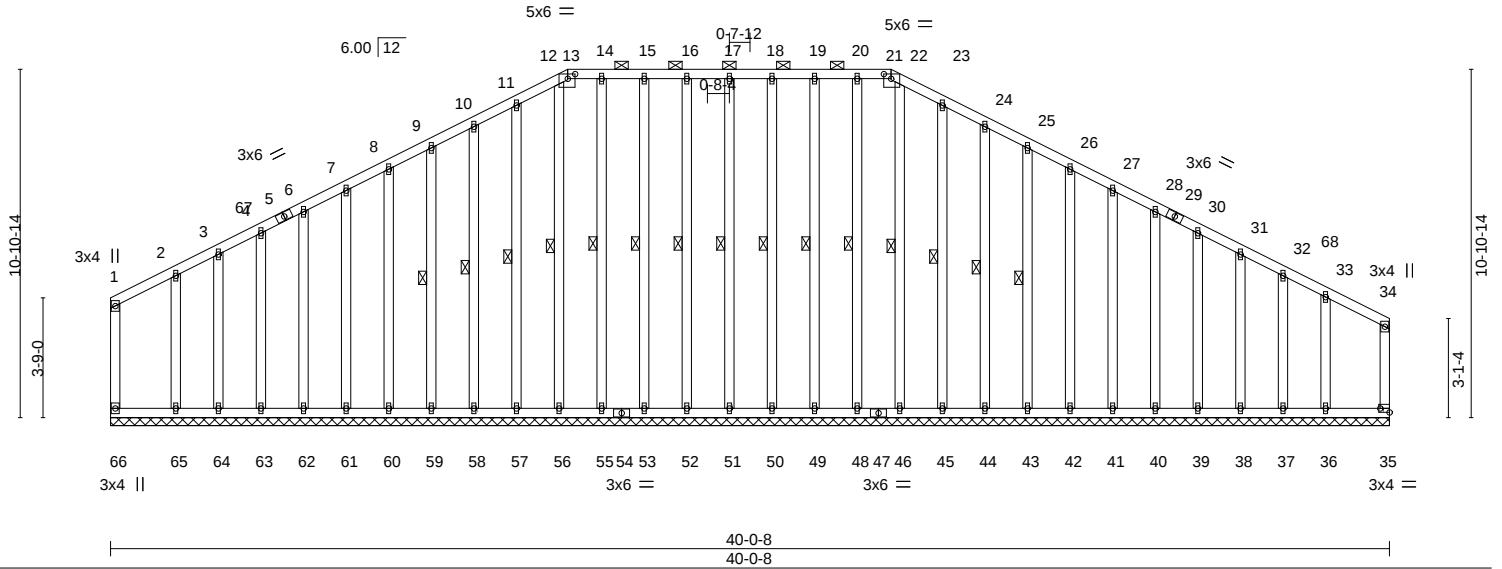


Plate Offsets (X,Y)-- [13:0-2-12,0-1-12], [21:0-2-12,0-1-12], [35:Edge,0-1-8]

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.24	Vert(LL) n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.22	Vert(CT) n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.01	35	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R					Weight: 354 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 13-21.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt
OTHERS 2x4 SPF No.2	

REACTIONS. All bearings 40-0-8.
 (lb) - Max Horz 66=-205(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 51, 52, 53, 55, 57, 58, 59, 60, 61, 62, 63, 64, 50, 49, 48, 45, 44, 43, 42, 41, 40, 39, 38, 37 except 66=-144(LC 8), 35=-182(LC 9), 65=-182(LC 9), 36=-271(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 66, 35, 51, 52, 53, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 50, 49, 48, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37 except 65=280(LC 19), 36=309(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 8-9=-102/259, 9-10=-113/289, 10-11=-124/320, 11-12=-134/350, 12-13=-122/312, 13-14=-121/329, 14-15=-121/329, 15-16=-121/329, 16-17=-121/329, 17-18=-121/329, 18-19=-121/329, 19-20=-121/329, 20-21=-121/329, 21-22=-122/313, 22-23=-136/356, 23-24=-125/326, 24-25=-114/295, 25-26=-104/265

- 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 and C-C Corner(3E) 0-1-12 to 4-1-13, Exterior(2N) 4-1-13 to 14-3-12, Corner(3R) 14-3-12 to 18-0-8, Exterior(2N) 18-0-8 to 24-5-4, Corner(3R) 24-5-4 to 28-8-8, Exterior(2N) 28-8-8 to 39-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 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) 51, 52, 53, 55, 57, 58, 59, 60, 61, 62, 63, 64, 50, 49, 48, 45, 44, 43, 42, 41, 40, 39, 38, 37 except (jt=lb) 66=144, 35=182, 65=182, 36=271.
 - 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.



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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/2029 Meadows	I55348921
3350377	A4	Piggyback Base	4	1	Job Reference (optional)	

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

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ID:3bdcgReV7IPqhseTN6p0GyrrBnO-a7HY25rxFujxZNIrpfSzSjzDQeNys2xwP7wd0yIaV

7-5-6	14-7-4	19-8-0	24-8-12	32-0-8	38-8-1	45-4-0	46-2-8
7-5-6	7-1-14	5-0-12	5-0-12	7-3-12	6-7-9	6-7-15	0-10-8

Scale = 1:82.0

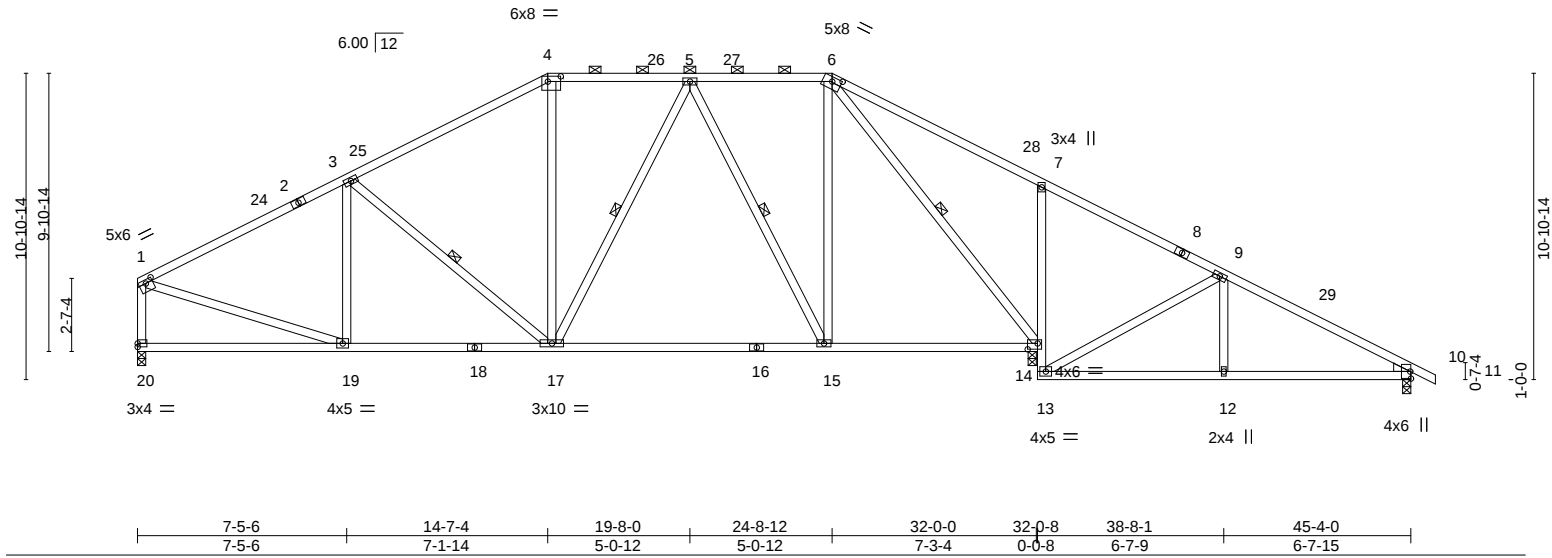


Plate Offsets (X,Y)--		[1:0-3-0,0-1-8], [4:0-5-8,0-2-4], [6:0-4-0,0-1-15], [14:0-4-4,0-2-8]
LOADING (psf)	SPACING-	2-0-0
TCLL 25.0	Plate Grip DOL	1.15
TCDL 10.0	Lumber DOL	1.15
BCLL 0.0	Rep Stress Incr	YES
BCDL 10.0	Code	IRC2018/TPI2014
	CSI.	
	TC	0.54
	BC	0.67
	WB	0.98
	Matrix-AS	
	DEFL.	
	in (loc)	l/defl L/d
	Vert(LL)	-0.19 15-17 >999 240
	Vert(CT)	-0.40 15-17 >951 180
	Horz(CT)	0.05 14 n/a n/a
	PLATES	GRIP
	MT20	197/144
	Weight: 216 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and
BOT CHORD 2x4 SPF No.2	2-0-0 oc purlins (5-2-5 max.): 4-6.
WEBS 2x4 SPF No.2	Rigid ceiling directly applied.
WEDGE	1 Row at midpt 3-17, 6-14, 5-17, 5-15
Right: 2x4 SPF No.2	

REACTIONS. (size) 20=0-3-8, 10=0-3-8, 14=0-3-8
Max Horz 20=-199(LC 13)
Max Uplift 20=-210(LC 12), 10=-154(LC 13), 14=-208(LC 13)
Max Grav 20=1420(LC 1), 10=609(LC 26), 14=2107(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1663/273, 3-4=-1450/312, 4-5=-1187/319, 5-6=-844/284, 6-7=-137/319,
9-10=-691/221, 1-20=-1346/236
BOT CHORD 17-19=-204/1396, 15-17=-74/1102, 14-15=-15/834, 13-14=-60/377, 7-14=-525/251,
12-13=-107/544, 10-12=-107/544
WEBS 3-19=-284/112, 3-17=-289/161, 4-17=-40/285, 6-15=-48/746, 6-14=-1440/59,
9-13=-667/185, 9-12=0/288, 1-19=-159/1359, 5-15=-632/146

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 and C-C Exterior(2E) 0-1-12 to 4-8-2, Interior(1) 4-8-2 to 14-7-4, Exterior(2R) 14-7-4 to 21-0-3, Interior(1) 21-0-3 to 24-8-12, Exterior(2R) 24-8-12 to 31-1-11, Interior(1) 31-1-11 to 46-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 3x6 MT20 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) except (jt=lb) 20=210, 10=154, 14=208.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 18,2022

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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/2029 Meadows	I55348923
3350377	A6	Piggyback Base	1	1	Job Reference (optional)	

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

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ID:3bdcgRev7IPqhseTN6p0GyyrBnO-_iygg7tpYp5VQqUQVn79bUxTJdei9HROcNLaELyIDaS

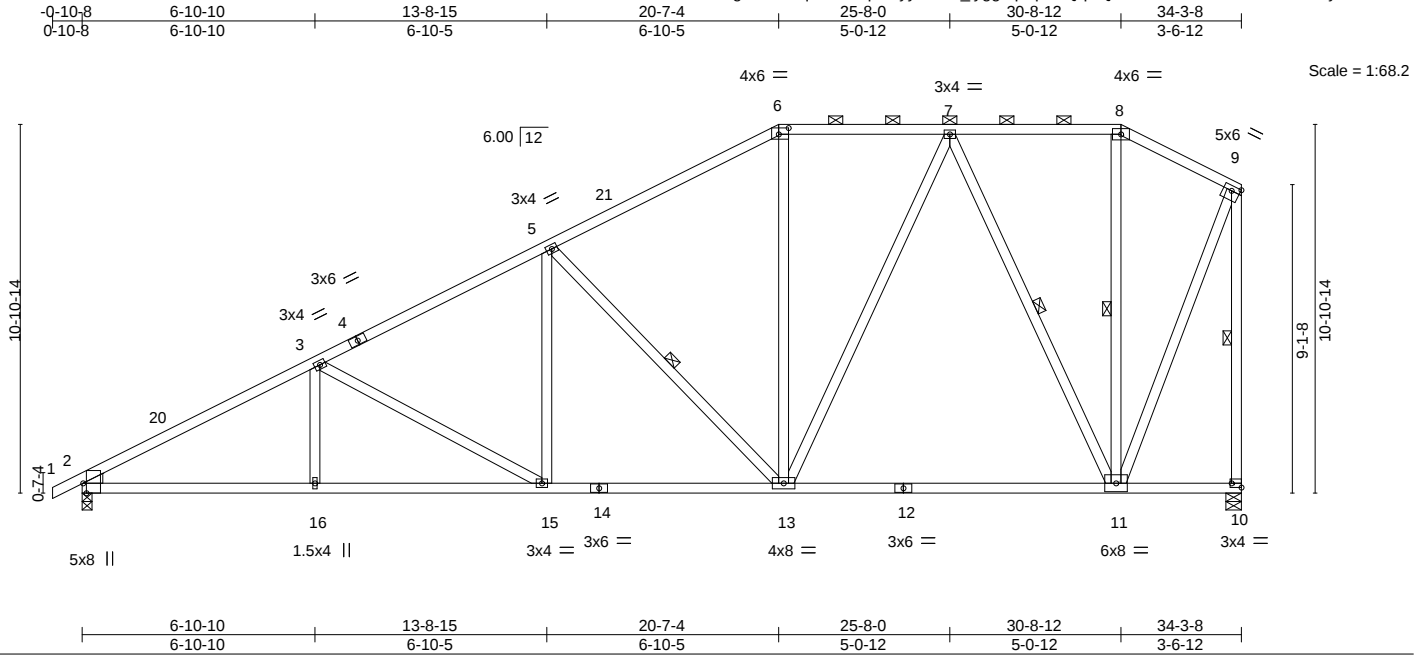


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [6:0-3-8,0-2-4], [9:Edge,0-1-12], [10:Edge,0-1-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.55	Vert(LL)	-0.21	11-13	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.76	Vert(CT)	-0.45	11-13	>901	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.68	Horz(CT)	0.09	10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 185 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-1-15 max.): 6-8.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 5-13, 8-11, 9-10, 7-11
WEDGE	
Left: 2x4 SPF No.2	

REACTIONS. (size) 2=0-3-8, 10=0-5-8
Max Horz 2=356(LC 11)
Max Uplift 2=248(LC 12), 10=189(LC 12)
Max Grav 2=1599(LC 1), 10=1536(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2689/412, 3-5=-2125/367, 5-6=-1461/307, 6-7=-1202/316, 7-8=-480/212, 8-9=-583/229, 9-10=-1533/228
BOT CHORD 2-16=-507/2308, 15-16=-507/2308, 13-15=-409/1813, 11-13=-238/927
WEBS 3-15=-565/185, 5-15=-35/444, 5-13=-879/267, 6-13=-12/296, 9-11=-214/1284, 7-11=-1078/235, 7-13=-142/663

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-6-10, Interior(1) 2-6-10 to 20-7-4, Exterior(2R) 20-7-4 to 25-8-0, Interior(1) 25-8-0 to 30-8-12, Exterior(2E) 30-8-12 to 34-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=248, 10=189.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 18, 2022

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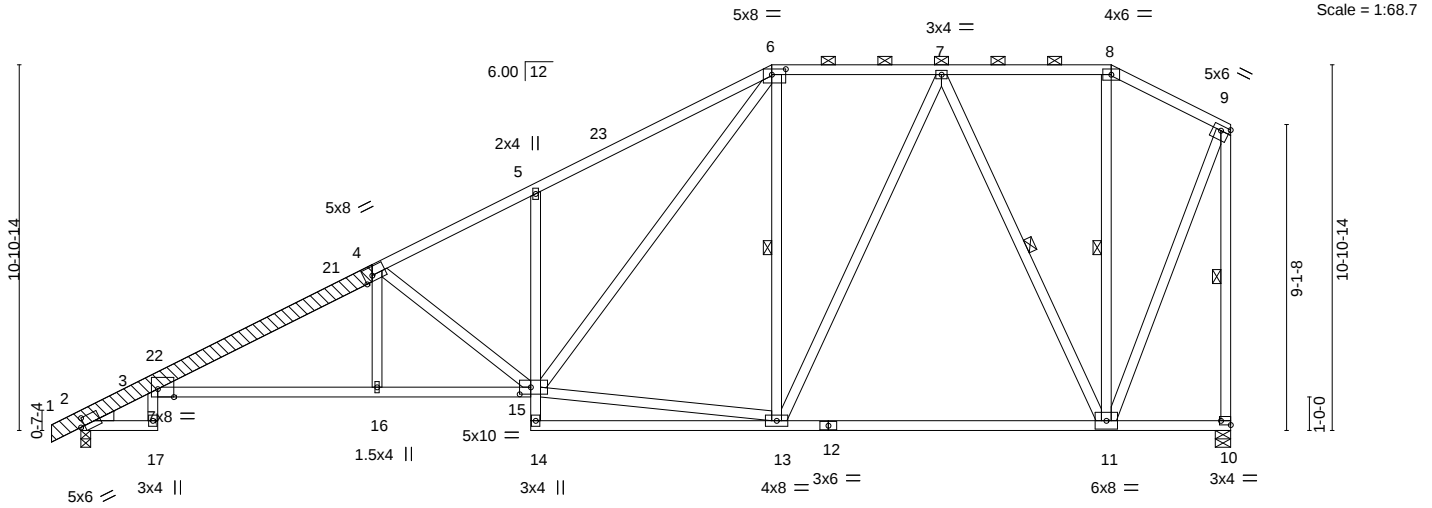
Job 3350377	Truss A7	Truss Type Piggyback Base	Qty 1	Ply 1	Summit/2029 Meadows Job Reference (optional)	I55348924
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

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ID:3bdcgReV7IPqhseTN6p0GyyrBnO-TuW3uTuRI7EM2_3c2UeO7IuaQ1x2ufjXr157moylDaR

-0-10-8 2-3-8	8-10-0	15-4-8	20-7-4	25-8-0	30-8-12	34-3-8
0-10-8 2-3-8	6-6-8	6-6-8	5-2-12	5-0-12	5-0-12	3-6-12



2-3-8	8-10-0	13-5-0	15-4-8	20-7-4	25-8-0	30-8-12	34-3-8
2-3-8	6-6-8	4-7-0	1-11-8	5-2-12	5-0-12	5-0-12	3-6-12

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.78	Vert(LL) -0.39	3-16	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.94	Vert(CT) -0.73	3-16	>561	180		
BCLL 0.0	Rep Stress Incr YES	WB 1.00	Horz(CT) 0.39	10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 221 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 1-4: 2x6 SPF 2100F 1.8E	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-1-1 max.): 6-8.
BOT CHORD 2x4 SPF No.2 *Except* 3-15: 2x4 SPF 1650F 1.5E	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 6-13, 8-11, 9-10, 7-11
OTHERS 2x6 SPF 2100F 1.8E	
LBR SCAB 1-4 2x6 SPF 2100F 1.8E one side	
WEDGE	
Left: 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 10=0-5-8
Max Horz 2=357(LC 11)
Max Uplift 2=-248(LC 12), 10=-189(LC 12)
Max Grav 2=1599(LC 1), 10=1536(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-19=-818/116, 3-4=-3096/492, 4-5=-2414/434, 5-6=-2448/571, 6-7=-1202/316,
7-8=-479/212, 8-9=-582/229, 9-10=-1531/229
BOT CHORD 3-16=-619/2852, 15-16=-616/2854, 5-15=-409/212, 11-13=-238/927
WEBS 4-15=-962/234, 13-15=-279/1078, 6-15=-398/1474, 6-13=-571/228, 9-11=-215/1282,
7-11=-1079/233, 7-13=-143/671

NOTES-

- 1) Attached 10-11-1 scab 1 to 4, front face(s) 2x6 SPF 2100F 1.8E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-0-4 from end at joint 1, nail 2 row(s) at 4" o.c. for 4-10-5; starting at 8-8-13 from end at joint 1, nail 2 row(s) at 7" o.c. for 2-0-0.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) 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 and C-C Exterior(2E) -0-10-8 to 2-6-10, Interior(1) 2-6-10 to 20-7-4, Exterior(2R) 20-7-4 to 25-8-0, Interior(1) 25-8-0 to 30-8-12, Exterior(2E) 30-8-12 to 34-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=248, 10=189.
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 18, 2022

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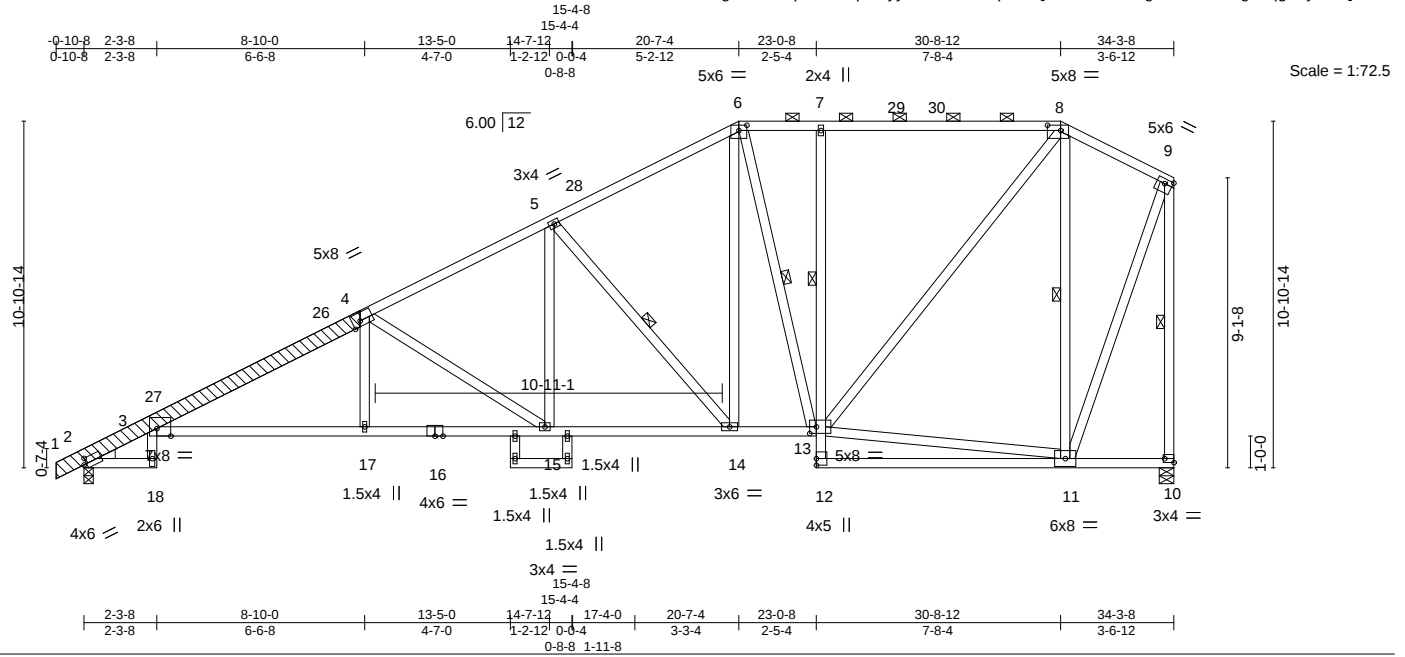


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/2029 Meadows	I55348925
3350377	A8	Piggyback Base	1	1	Job Reference (optional)	

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

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ID:3bdcgReV7IPqhseTN6p0GyyrBnO-x44R5pv43QMdf8eocC9dgv0nzRIYd8lg3hggJEylDaQ



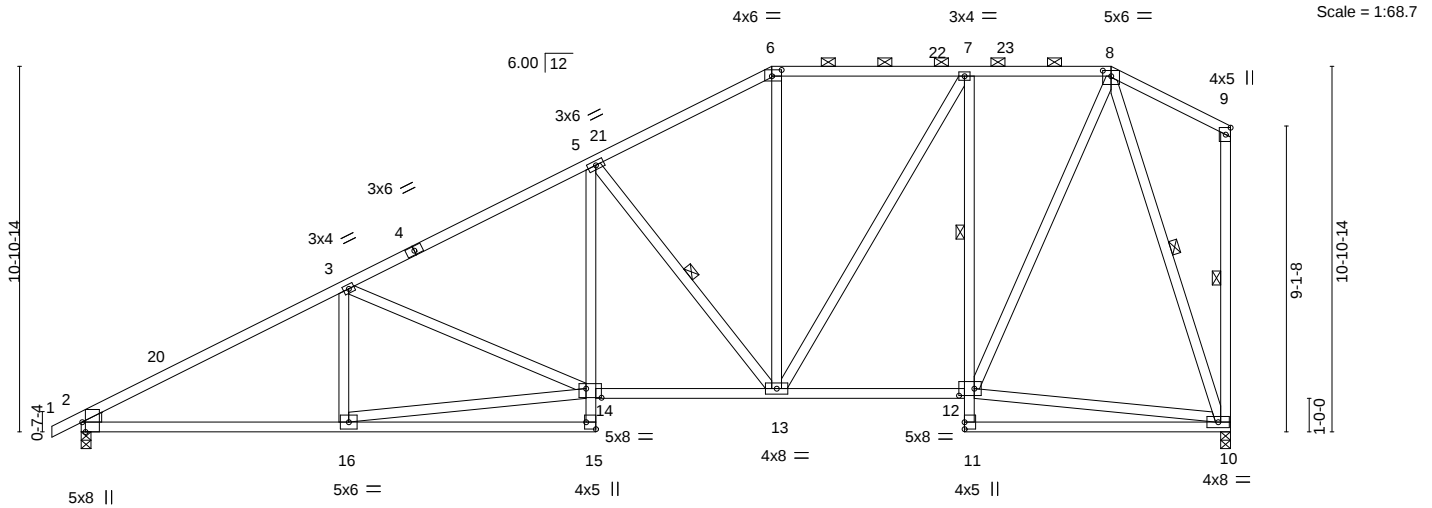
Job	Truss	Truss Type	Qty	Ply	Summit/2029 Meadows	I55348927
3350377	A10	Piggyback Base	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:00 2022 Page 1

ID:3bdcgReV7IPqhseTN6p0GyyrBnO-lzwHo2mAf2znrSIhTOT2jb3xe?bVYAI3YUfbQNYlDab

-0-10-8	5-9-9	7-10-1	11-6-12	15-4-4	20-7-4	26-4-0	30-8-12	34-3-8
0-10-8	5-9-9	2-0-8	3-8-12	3-9-8	5-3-0	5-8-12	4-4-12	3-6-12



7-10-1	8-8-3	15-4-4	17-4-0	20-7-4	26-4-0	26-4-4	30-8-12	34-3-8
7-10-1	0-10-2	6-8-1	1-11-12	3-3-4	5-8-12	0-0-4	4-4-8	3-6-12

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [6:0-3-8,0-2-4], [8:0-3-0,0-2-0], [12:0-5-8,0-2-8], [14:0-5-8,0-3-4], [15:Edge,0-3-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.55	Vert(LL)	-0.14	13-14	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.70	Vert(CT)	-0.29	15-16	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.84	Horz(CT)	0.10	10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 200 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-7-10 max.): 6-8.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied. Except:
WEBS 2x4 SPF No.2	1 Row at midpt 7-12
WEDGE	1 Row at midpt 9-10, 8-10, 5-13
Left: 2x4 SPF No.2	

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=356(LC 11)
Max Uplift 2=-247(LC 12), 10=-187(LC 12)
Max Grav 2=1599(LC 1), 10=1536(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2662/406, 3-5=-2251/396, 5-6=-1565/332, 6-7=-1319/329, 7-8=-964/255
BOT CHORD 2-16=-499/2277, 5-14=-76/571, 13-14=-439/1911, 12-13=-245/971, 7-12=-985/235
WEBS 10-12=-198/359, 8-12=-202/1268, 8-10=-1465/329, 6-13=-23/339, 7-13=-172/685,
5-13=-953/273, 14-16=-492/2126, 3-14=-404/162

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 and C-C Exterior(2E) -0-10-8 to 2-6-10, Interior(1) 2-6-10 to 20-7-4, Exterior(2R) 20-7-4 to 25-5-7, Interior(1) 25-5-7 to 30-8-12, Exterior(2E) 30-8-12 to 34-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=247, 10=187.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 18,2022

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

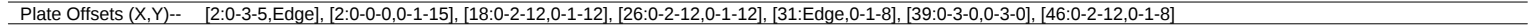
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:03 2022 Page 1
 ID:3bdcgReV7IPqhseTN6p0GyyrBnO-AyBPQ4p2yzLMiv0G8W0lLDhVYCKdJj1VERuF1yIIdaY
 -0-10-8 20-7-4 30-8-12 34-3-8
 0-10-8 20-7-4 10-1-8 3-6-12



LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 18-26.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt
OTHERS	2x4 SPF No.2		30-31, 15-44, 14-45, 16-43, 17-42, 19-41,
WEDGE			20-40, 21-39, 22-38, 23-37, 24-36, 25-35,
Left: 2x4 SPF No.2			27-34, 28-33, 29-32

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-432/247, 3-4=-344/198, 4-5=-324/198, 5-7=-292/186, 7-8=-262/176

November 18.2022

Job	Truss	Truss Type	Qty	Ply	Summit/2029 Meadows
3350377	B1	Common Supported Gable	1	1	155348929

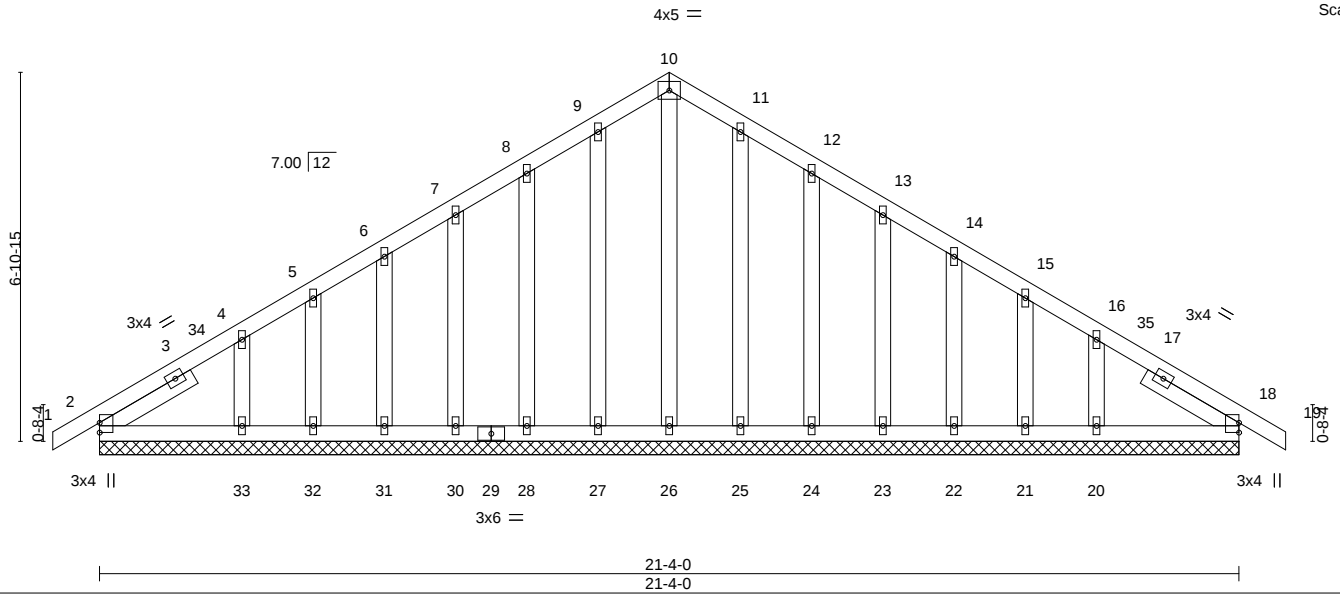
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:14 2022 Page 1

ID:3bdcgReV7IPqhseTN6p0GyyrBnO-LfmZkrxyMLkoWcMNHKjKIYeRbeW7qhs7mf3LvZylDaN

0-10-8 10-8-0 21-4-0 22-2-8
0-10-8 10-8-0 10-8-0 0-10-8

Scale = 1:43.1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	0.00	18	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	0.00	18	n/r	120		
BCLL 0.0	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	18	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 117 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 2-0-0, Right 2x4 SPF No.2 2-0-0

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 21-4-0.
(lb) - Max Horz 2=158(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 27, 28, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20
Max Grav All reactions 250 lb or less at joint(s) 2, 26, 27, 28, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20, 18

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; 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 and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 10-8-0, Corner(3R) 10-8-0 to 13-8-0, Exterior(2N) 13-8-0 to 22-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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, 27, 28, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 18.
- 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.



November 18, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/2029 Meadows	I55348930
3350377	B2	Common	2	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:16 2022 Page 1

ID:3bdcgReV7IPqhseTN6p0GyyrBnO-H2tK9WzCuz_WmvWmPiloNzkk6S62lb_PDzYR_RylDaL

0-10-8 5-5-12 10-8-0 15-10-4 21-4-0 22-2-8
0-10-8 5-5-12 5-2-4 5-2-4 5-5-12 0-10-8

Scale = 1:44.8

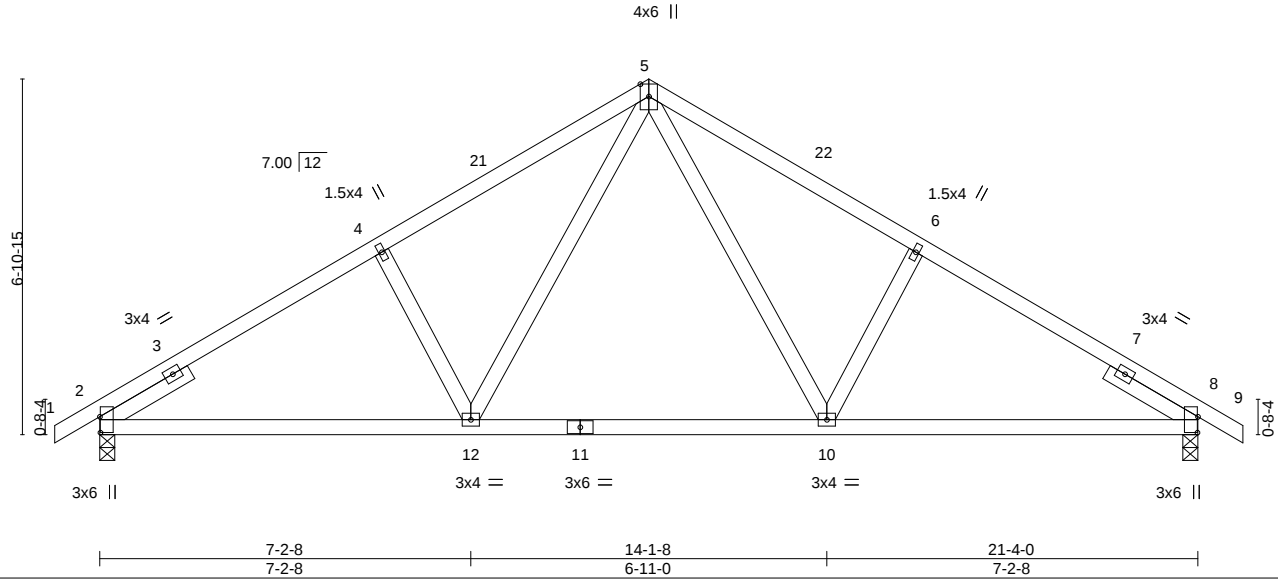


Plate Offsets (X,Y)-- [2:0-3-11,0-0-2], [8:0-3-11,0-0-2]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.26	Vert(LL)	-0.05 10-12	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.39	Vert(CT)	-0.12 10-12	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.03 8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 85 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 2-0-0, Right 2x4 SPF No.2 2-0-0

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 8=0-3-8
Max Horz 2=-158(LC 10)
Max Uplift 2=-132(LC 12), 8=-132(LC 13)
Max Grav 2=1021(LC 1), 8=1021(LC 1)

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

TOP CHORD 2-4=-1360/181, 4-5=-1239/223, 5-6=-1239/223, 6-8=-1360/181
BOT CHORD 2-12=-175/1122, 10-12=-38/784, 8-10=-79/1122
WEBS 5-10=-119/473, 6-10=-315/180, 5-12=-119/473, 4-12=-315/179

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 and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-8-0, Exterior(2R) 10-8-0 to 13-8-0, Interior(1) 13-8-0 to 22-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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) 2=132, 8=132.
- 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.



November 18, 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

Job 3350377	Truss B3	Truss Type Common	Qty 9	Ply 1	Summit/2029 Meadows I55348931
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:17 2022 Page 1

ID:3bdcgReV7IPqhseTN6p0GyyrBnO-IERiMs_qfG6NN35yzSG1wAGvrrSF12DZSdH?WuyIDaK

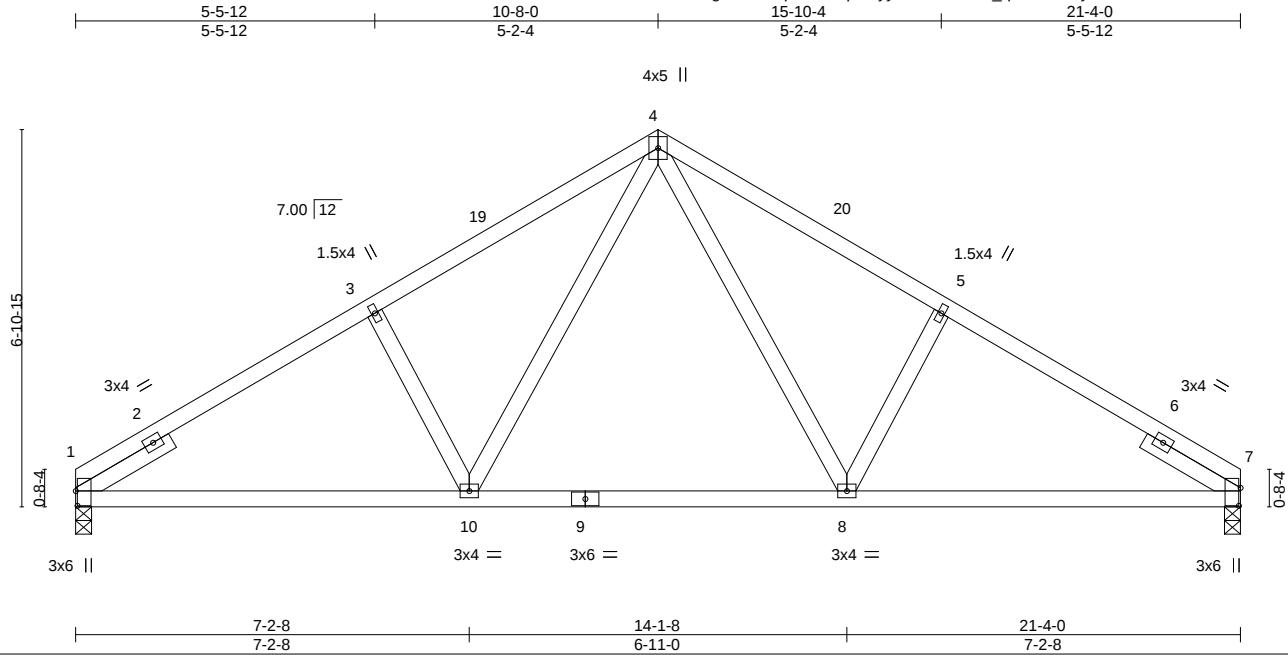


Plate Offsets (X,Y)-- [1:0-3-4,0-0-6], [7:0-3-15,0-0-6]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.26	Vert(LL)	-0.05	8-10	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.40	Vert(CT)	-0.11	8-10	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.03	7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 82 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 2-0-0, Right 2x4 SPF No.2 2-0-0

BRACING-

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

REACTIONS.

(size) 1=0-3-8, 7=0-3-8
Max Horz 1=-146(LC 8)
Max Uplift 1=-115(LC 12), 7=-115(LC 13)
Max Grav 1=960(LC 1), 7=960(LC 1)

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

TOP CHORD 1-3=-1248/182, 3-4=-1247/224, 4-5=-1247/224, 5-7=-1248/182
BOT CHORD 1-10=-184/1131, 8-10=-46/788, 7-8=-95/1131
WEBS 4-8=-121/479, 5-8=-319/180, 4-10=-121/479, 3-10=-319/180

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 and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-8-0, Exterior(2R) 10-8-0 to 13-8-0, Interior(1) 13-8-0 to 21-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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) 1=115, 7=115.
- 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.



November 18, 2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/2029 Meadows	I55348932
3350377	C1	Hip	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:18 2022 Page 1

ID:3bdcgReV7IPqhseTN6p0GgyrBnO-EQ?4ZC_TQaEE?Dg8WAoGSOp?kFnkmSNigH1Y2KylDaJ

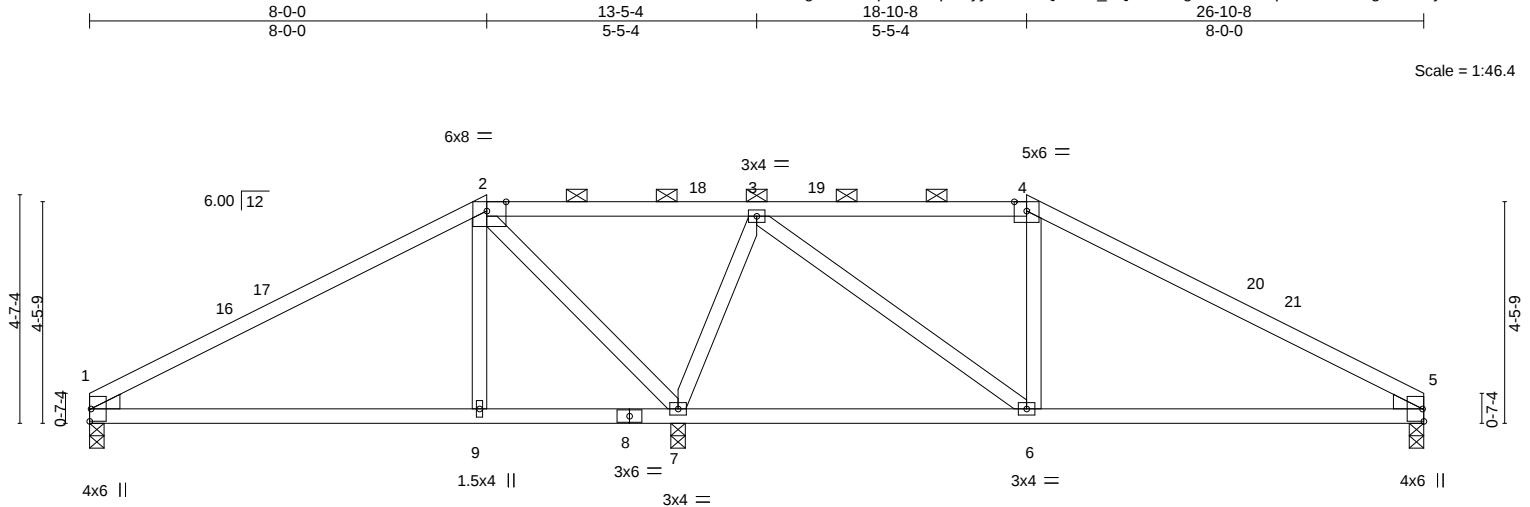


Plate Offsets (X,Y)-- [2:0-4-10,Edge]		8-0-0 8-0-0		11-10-4 3-10-4		18-10-8 7-0-4		26-10-8 8-0-0	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.63	Vert(LL)	-0.10 9-12	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.51	Vert(CT)	-0.20 9-12	>700	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.32	Horz(CT)	0.03 1	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 93 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2
 WEDGE
 Left: 2x4 SPF No.2 , Right: 2x4 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (6-0-0 max.): 2-4.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 7=0-3-8, 1=0-3-8, 5=0-3-8
 Max Horz 1=61(LC 12)
 Max Uplift 7=129(LC 9), 1=136(LC 12), 5=150(LC 13)
 Max Grav 7=1034(LC 1), 1=631(LC 1), 5=753(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-783/208, 2-3=-274/195, 3-4=-840/260, 4-5=-1042/232
 BOT CHORD 1-9=-154/606, 7-9=-154/600, 6-7=-107/505, 5-6=-114/836
 WEBS 2-9=0/261, 2-7=-537/90, 3-7=-733/174, 3-6=-52/490

- 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 and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 8-0-0, Exterior(2R) 8-0-0 to 12-2-15, Interior(1) 12-2-15 to 18-10-8, Exterior(2R) 18-10-8 to 23-1-7, Interior(1) 23-1-7 to 26-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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) except (jt=lb) 7=129, 1=136, 5=150.
 - 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.



November 18,2022

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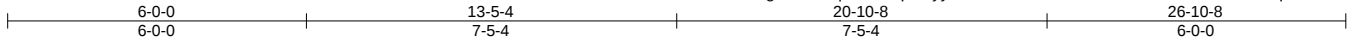


16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/2029 Meadows	I55348933
3350377	C2	Hip	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:19 2022 Page 1
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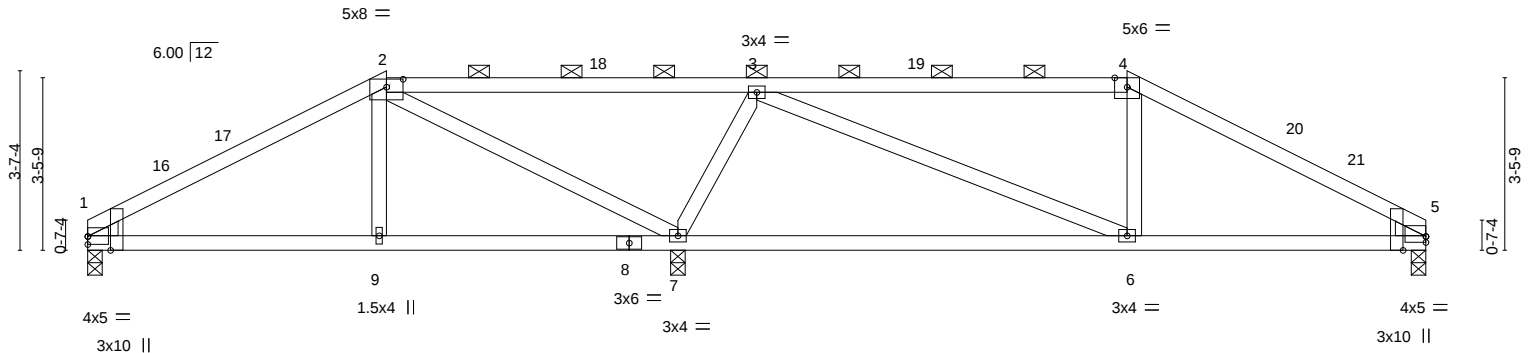


Plate Offsets (X,Y)--	[1:0-3-5,Edge], [1:0-0-0,0-1-15], [2:0-4-0,0-1-15], [5:0-0-0,0-1-7], [5:0-3-5,Edge]
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.79	Vert(LL)	-0.14	6-7	>999	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.48	Vert(CT)	-0.29	6-7	>618		
BCLL 0.0	Lumber DOL 1.15	WB 0.62	Horz(CT)	0.02	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS					Weight: 92 lb	FT = 20%
	Code IRC2018/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SPF No.2	2-0-0 oc purlins (5-9-9 max.): 2-4.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEDGE	
Left: 2x4 SPF No.2, Right: 2x4 SPF No.2	

REACTIONS. (size) 7=0-3-8, 1=0-3-8, 5=0-3-8
Max Horz 1=46(LC 12)
Max Uplift 7=194(LC 9), 1=101(LC 12), 5=123(LC 13)
Max Grav 7=1330(LC 1), 1=466(LC 1), 5=623(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-569/157, 2-3=-42/268, 3-4=-758/214, 4-5=-915/190
BOT CHORD 1-9=-118/448, 7-9=-119/442, 5-6=-103/753
WEBS 2-7=-757/150, 3-7=-930/247, 3-6=-74/630

- 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 and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-0-0, Exterior(2R) 6-0-0 to 10-2-15, Interior(1) 10-2-15 to 20-10-8, Exterior(2R) 20-10-8 to 25-1-7, Interior(1) 25-1-7 to 26-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=194, 1=101, 5=123.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 18, 2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/2029 Meadows	I55348934
3350377	C3	Hip Girder	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:22 2022 Page 1

ID:3bdcgReV7IPqhseTN6p0GyyrBnO-6CFbPa2zUpkfUqzwI0sCdE_ivs6ziC1lbv?mB5ylDaF



Scale = 1:47.2

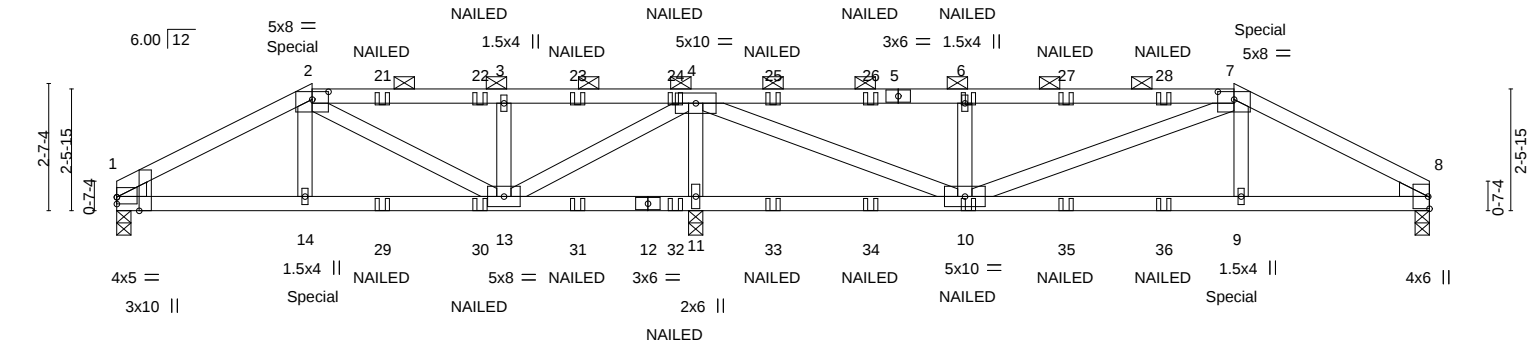


Plate Offsets (X,Y)--	[1:0-3-5,Edge], [1:0-0-0,0-1-11], [2:0-4-0,0-1-15], [7:0-4-0,0-1-15]
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.56	Vert(LL) -0.07	9-10	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.62	Vert(CT) -0.15	9-10	>999	180		
BCLL 0.0	Rep Stress Incr NO	WB 0.53	Horz(CT) 0.01	8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS					Weight: 97 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-9-7 oc purlins, except
BOT CHORD 2x4 SPF No.2	2-0-0 oc purlins (4-9-10 max.): 2-7.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEDGE	
Left: 2x4 SPF No.2, Right: 2x4 SPF No.2	

REACTIONS. (size) 11=0-3-8, 1=0-3-8, 8=0-3-8
 Max Horz 1=-30(LC 30)
 Max Uplift 11=-581(LC 5), 1=-145(LC 8), 8=-213(LC 9)
 Max Grav 11=2148(LC 1), 1=567(LC 1), 8=819(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-860/251, 2-3=-350/147, 3-4=-348/146, 4-6=-1116/351, 6-7=-1118/352,
 7-8=-1379/386
 BOT CHORD 1-14=-206/724, 13-14=-204/709, 11-13=-894/268, 10-11=-894/268, 9-10=-297/1172,
 8-9=-298/1188
 WEBS 2-14=-24/266, 2-13=-418/116, 3-13=-365/156, 4-13=-389/1412, 4-11=-1946/593,
 4-10=-584/2155, 6-10=-570/241, 7-9=-11/294

- 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=581, 1=145, 8=213.
 - 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) 111 lb down and 109 lb up at 4-0-0, and 111 lb down and 109 lb up at 22-10-8 on top chord, and 143 lb down and 73 lb up at 4-0-0, and 143 lb down and 73 lb up at 22-9-12 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



November 18, 2022

Continued on page 2

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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/2029 Meadows
3350377	C3	Hip Girder	1	1	I55348934
Job Reference (optional)					

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:22 2022 Page 2
ID:3bdcgReV7lPqhseTN6p0GyyrBnO-6CFbPa2zUpkfUqzwl0sCdE_ivs6ziC1lbv?mB5ylDaF

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-70, 2-7=-70, 7-8=-70, 15-18=-20

Concentrated Loads (lb)

Vert: 2=-53(B) 14=-143(B) 6=-47(B) 10=-34(B) 7=-53(B) 9=-143(B) 21=-47(B) 22=-47(B) 23=-47(B) 24=-47(B) 25=-47(B) 26=-47(B) 27=-47(B) 28=-47(B) 29=-34(B)
30=-34(B) 31=-34(B) 32=-34(B) 33=-34(B) 34=-34(B) 35=-34(B) 36=-34(B)

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

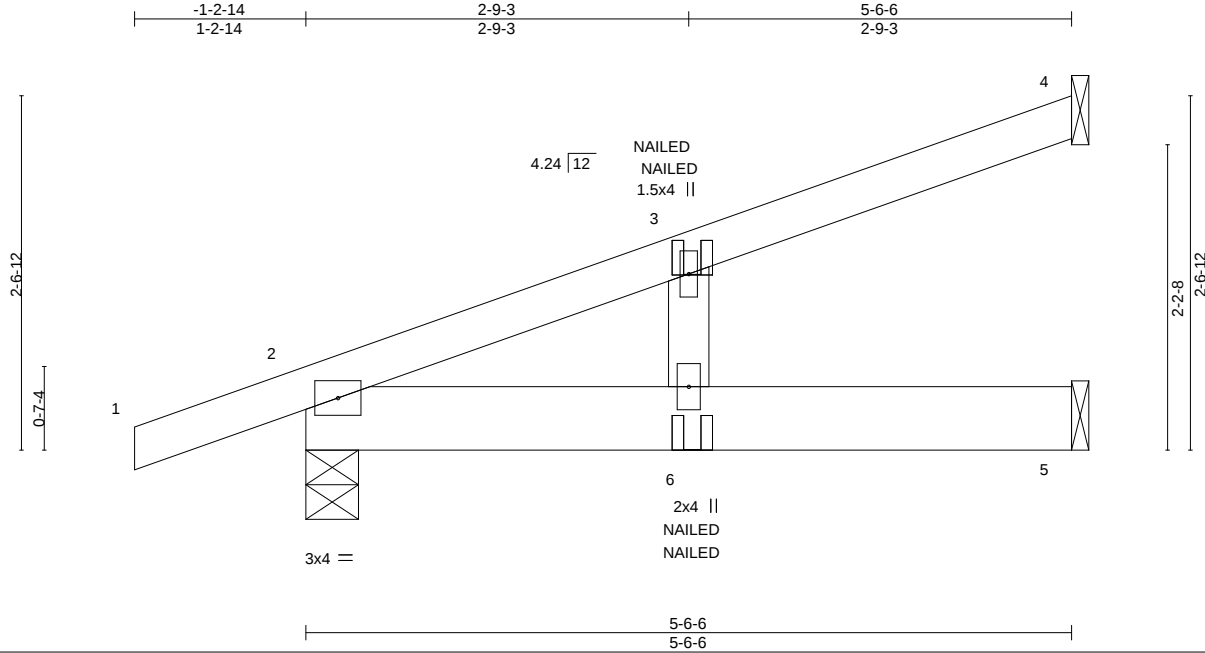


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/2029 Meadows	I55348935
3350377	CJ1	Diagonal Hip Girder	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:24 2022 Page 1
ID:3bdcgReV7IPqhseTN6p0GyyrBnO-2aMLqF3D?Q_Nj87ltRugif37OgtVAEUb3DUtG_yIDaD



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.18	Vert(LL)	-0.03	6	>999	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.29	Vert(CT)	-0.05	6	>999		
BCLL 0.0	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.01	4	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MP						
	Code IRC2018/TPI2014						Weight: 19 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

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.

REACTIONS.

(size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=92(LC 4)
Max Uplift 4=-41(LC 8), 2=-90(LC 4), 5=-27(LC 8)
Max Grav 4=104(LC 1), 2=348(LC 1), 5=138(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) gable end zone; 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) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-70, 5-7=-20
Concentrated Loads (lb)
Vert: 6=-12(F=-6, B=-6)



November 18, 2022

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/2029 Meadows
3350377	G2	Half Hip Girder	1	2	I55348936

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:25 2022 Page 1

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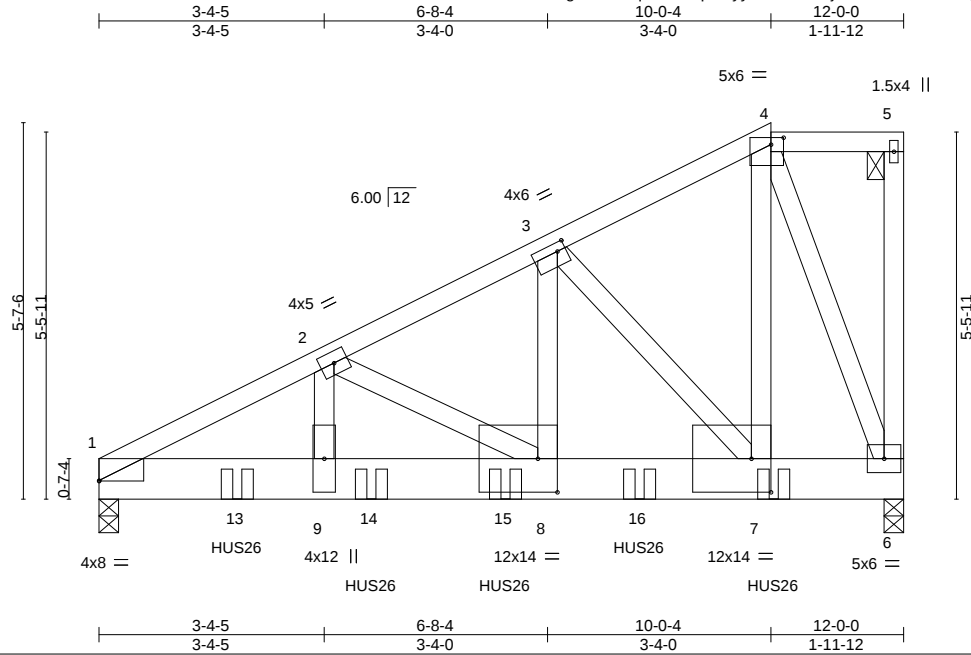


Plate Offsets (X,Y)-- [1:0-0-0,0-0-1], [3:0-1-8,0-1-8], [4:0-2-4,0-1-4], [7:0-3-8,0-6-0], [8:0-3-8,0-6-0]

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 0.37	Vert(LL)	-0.07	8-9	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.34	Vert(CT)	-0.12	8-9	>999	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.65	Horz(CT)	0.02	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS						Weight: 164 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-1-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-3-8, 6=0-3-8
Max Horz 1=185(LC 28)
Max Uplift 1=644(LC 8), 6=680(LC 8)
Max Grav 1=4883(LC 1), 6=5028(LC 1)

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

TOP CHORD 1-2=-8116/1073, 2-3=-5623/758, 3-4=-2075/308
BOT CHORD 1-9=-1006/7209, 8-9=-1006/7209, 7-8=-684/5004, 6-7=-258/1671
WEBS 2-9=-262/2176, 2-8=-2512/383, 3-8=-621/4837, 3-7=-4715/689, 4-7=-726/5278, 4-6=-4845/670

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 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) gable end zone; 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.
- 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) 1=644, 6=680.
- 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.
- Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 10-0-12 to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard



November 18, 2022

Continued on page 2

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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/2029 Meadows
3350377	G2	Half Hip Girder	1	2	I55348936

Builders FirstSource (Valley Center),
Valley Center, KS - 67147,
8.530 s Aug 11 2022 MiTek Industries, Inc.
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Page 2
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LOAD CASE(S)
Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-70, 4-5=-70, 6-10=-20
Concentrated Loads (lb)
Vert: 7=-1769(F) 13=-1769(F) 14=-1769(F) 15=-1769(F) 16=-1769(F)

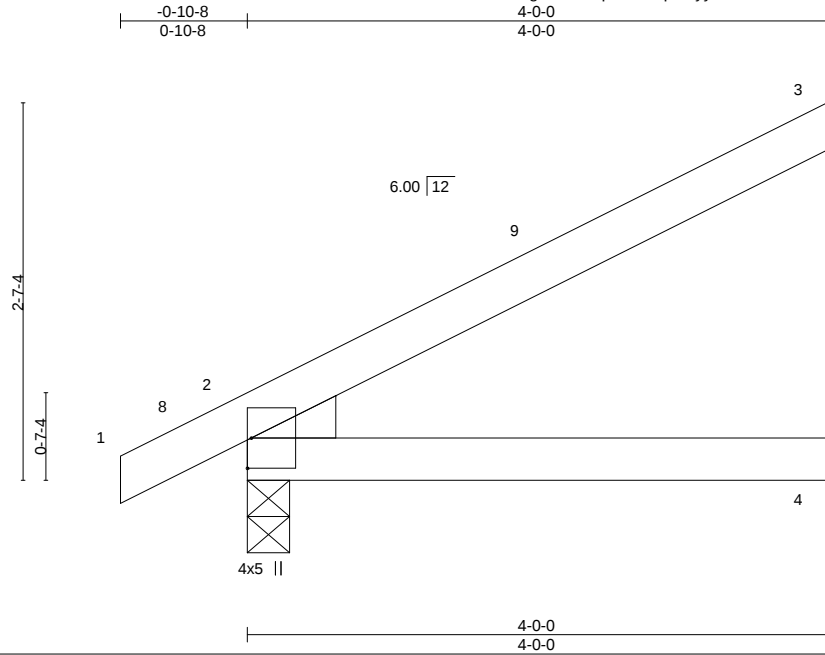
Job	Truss	Truss Type	Qty	Ply	Summit/2029 Meadows
3350377	J1	Jack-Open	11	1	155348937

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:26 2022 Page 1

ID:3bdcgReV7IPqhseTN6p0GyyrBnO-?zU6F5UX1F5zSHh_rx8n48ThUbAe7HuWWzzLsYlDaB



Scale: 3/4"=1'

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	0.02	4-7	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	-0.03	4-7	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 12 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2

BRACING-

TOP CHORD

Structural wood sheathing directly applied.

BOT CHORD

Rigid ceiling directly applied.

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=86(LC 12)

Max Uplift 3=-54(LC 12), 2=-27(LC 12)

Max Grav 3=117(LC 1), 2=245(LC 1), 4=71(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) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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.
- 6) This truss 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.



November 18, 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

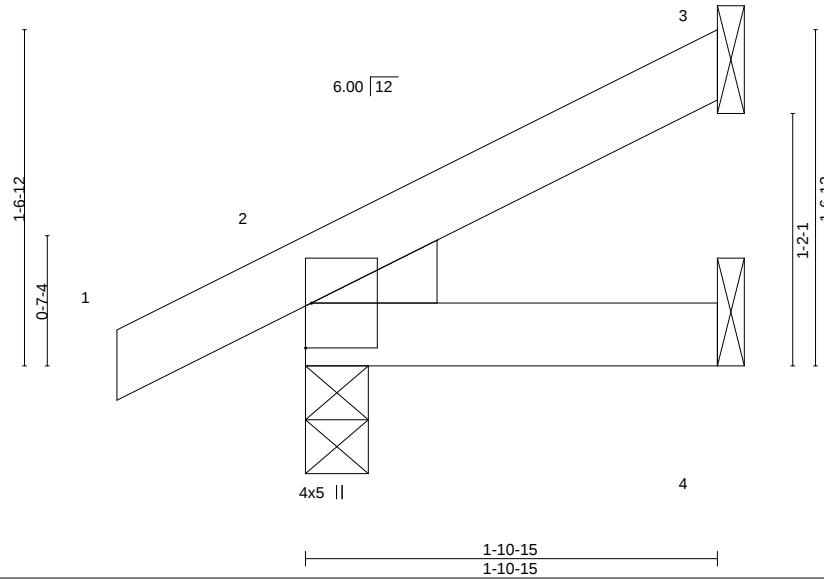
Job	Truss	Truss Type	Qty	Ply	Summit/2029 Meadows
3350377	J3	Jack-Open	4	1	I55348938

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:27 2022 Page 1
ID:3bdcgReV7IPqhseTN6p0GyyrBnO-T92USH56ILNyabstYZSNKHhgZtyNNaX1AiXtJylDaA

-0-10-8 0-10-8 1-10-15 1-10-15

Scale = 1:10.7



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 0.05	Vert(LL)	-0.00	7	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	7	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						
								Weight: 7 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEDGE
Left: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

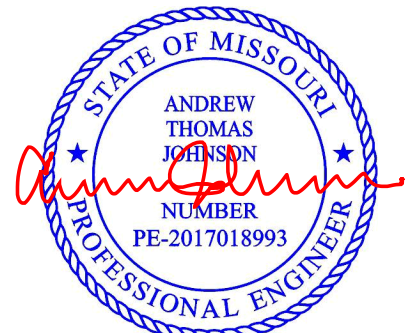
REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=49(LC 12)
Max Uplift 3=-23(LC 12), 2=-22(LC 12), 4=-3(LC 12)
Max Grav 3=48(LC 1), 2=161(LC 1), 4=32(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) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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, 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.



November 18, 2022

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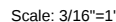
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:29 2022 Page 1
 ID:3bdcgReV7lPqhseTN6p0GyYrBnO-PYAETz7Mqydgqv0Gg_UrPim?4hdFrS5KCUBdxBylDa8
 9-3-14 18-7-12
 9-3-14 9-3-14



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	WEBS	1 Row at midbt 5-13

REACTIONS. All bearings 18-7-12.
(lb) - Max Horz 1=-244(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 14=-128(LC 12), 16=-104(LC 12), 17=-190(LC 12), 12=-126(LC 13), 11=-105(LC 13), 10=-190(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 14, 16, 12, 11 except 17=312(LC 19), 10=311(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-307/209 8-9=-273/190

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 and C-C Exterior(2E) 0-3-15 to 3-3-14, Interior(1) 3-3-14 to 9-3-14, Exterior(2R) 9-3-14 to 12-3-14, Interior(1) 12-3-14 to 18-3-13 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 1.5x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=1b) 14=128, 16=104, 17=190, 12=126, 11=105, 10=190.
- 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



November 18.2022



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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

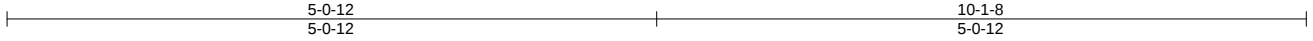


16023 Swingley Ridge Rd
Chesterfield, MO 63017

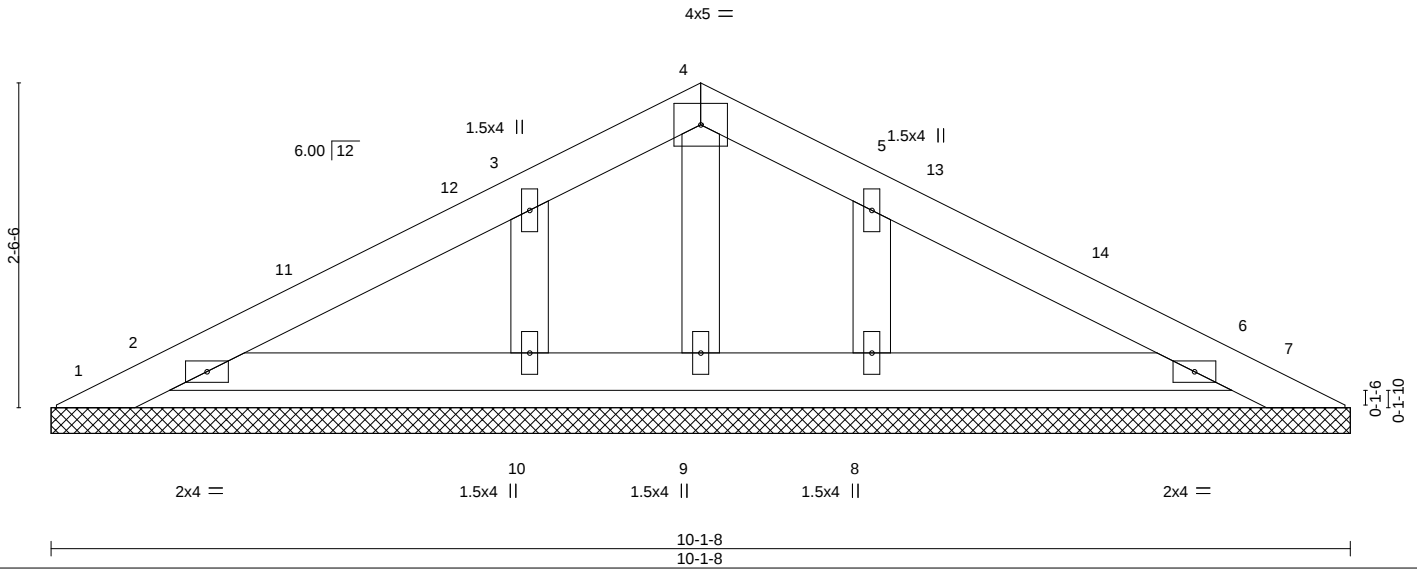
Job	Truss	Truss Type	Qty	Ply	Summit/2029 Meadows	I55348940
3350377	PB1	GABLE	2	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:30 2022 Page 1
ID:3bdcgReV7IPqhseTN6p0GgyrBnO-tkcc5J8_bGIXR3bSDh?4xwJAI5_baxpTR8xBUdyIDa7



Scale = 1:18.0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					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.

All bearings 10-1-8.
(lb) - Max Horz 1=37(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 6, 2, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 9, 6, 2, 10, 8

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; 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 and C-C Exterior(2E) 0-4-3 to 3-4-3, Interior(1) 3-4-3 to 5-0-12, Exterior(2R) 5-0-12 to 8-0-12, Interior(1) 8-0-12 to 9-9-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 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) 1, 7, 6, 2, 10, 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



November 18, 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

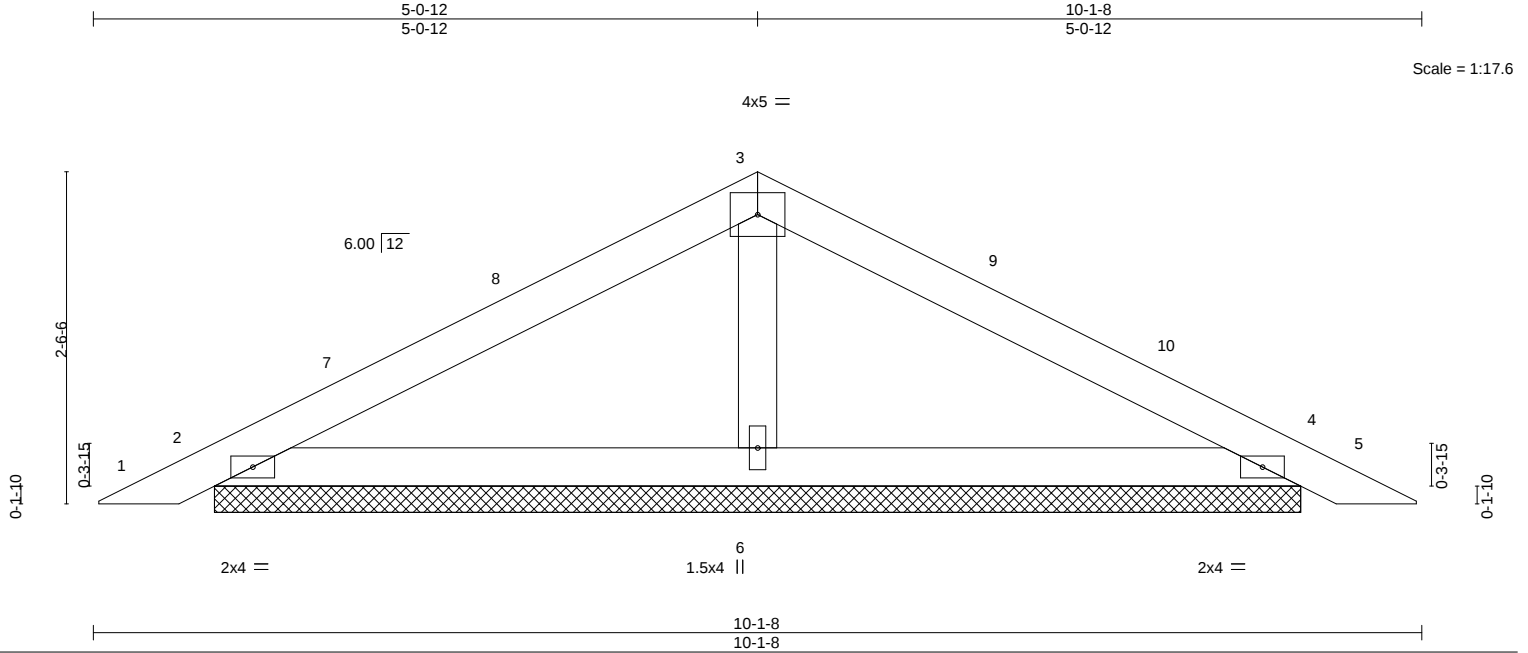


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/2029 Meadows	I55348941
3350377	PB2	Piggyback	19	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:31 2022 Page 1
ID:3bdcgReV7IPqhsTN6p0GyyrBnO-LxH?lf8dMatO3D9enPWJU7rlXVICJOydgogk04ylDa6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.31	Vert(LL)	0.02	5	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	0.02	5	n/r	120		
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 24 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) 6=8-3-6, 4=8-3-6, 2=8-3-6
Max Horz 2=37(LC 16)
Max Uplift 6=-11(LC 12), 4=-60(LC 13), 2=-53(LC 12)
Max Grav 6=361(LC 1), 4=232(LC 1), 2=232(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-257/143

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-3 to 3-4-3, Interior(1) 3-4-3 to 5-0-12, Exterior(2R) 5-0-12 to 8-0-12, Interior(1) 8-0-12 to 9-9-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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) 6, 4, 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



November 18, 2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

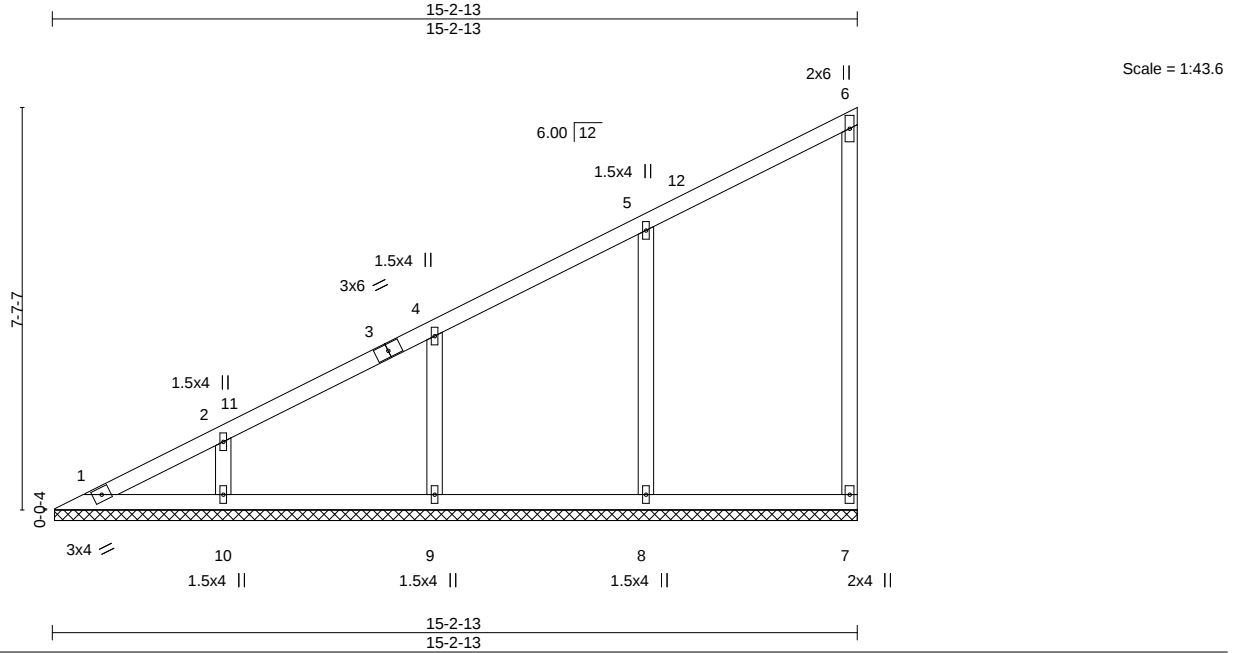


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/2029 Meadows
3350377	V1	Valley	1	1	I55348942

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:32 2022 Page 1
ID:3bdcgRev7IPqhseTN6p0GyyrBnO-p7rNV_9F7t?FhNkrL62Y0LOTXufz2pRmuSQIYWylDa5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.15	Horz(CT)	-0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 54 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 15-2-5.
(lb) - Max Horz 1=270(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 7, 10 except 8=-109(LC 12), 9=-102(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 7, 1 except 8=386(LC 1), 9=361(LC 1), 10=332(LC 1)

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

TOP CHORD 1-2=-386/220, 2-4=-311/191
WEBS 5-8=-301/184, 4-9=-281/154, 2-10=-256/143

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) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 15-1-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 10 except (jt=lb) 8=109, 9=102.
- 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.



November 18, 2022

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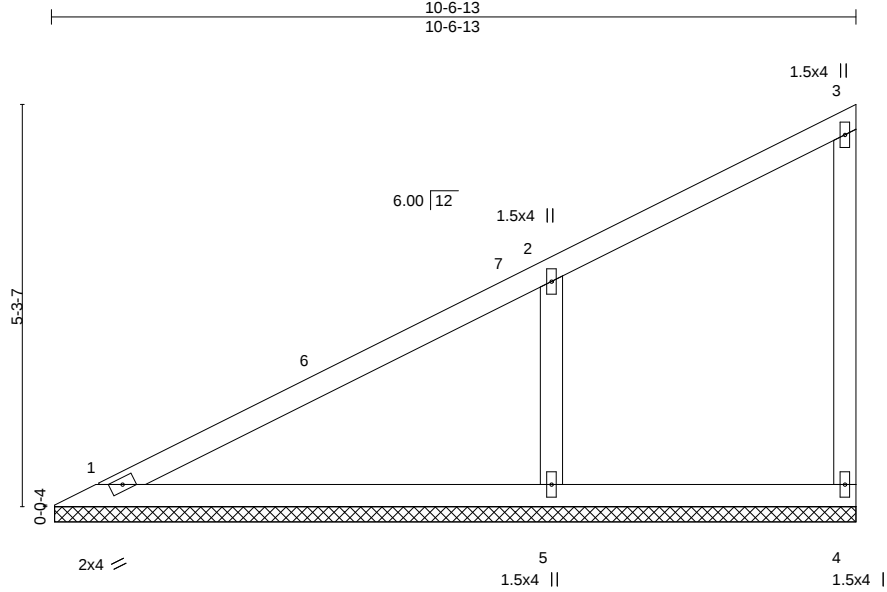


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/2029 Meadows
3350377	V3	Valley	1	1	155348944

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:38 2022 Page 1
ID:3bdcgReV7IPqhseTN6p0GyyrBnO-eHDeM2E0ijOPIC_hN8yGceTcJgdSY0fHOtcmAylDa?



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.45	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.24	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Lumber DOL 1.15	WB 0.08	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S							
	Code IRC2018/TPI2014							Weight: 33 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=10-6-5, 4=10-6-5, 5=10-6-5
Max Horz 1=183(LC 11)
Max Uplift 1=-1(LC 12), 4=-27(LC 9), 5=-126(LC 12)
Max Grav 1=217(LC 1), 4=95(LC 1), 5=570(LC 1)

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

TOP CHORD 1-2=-251/174
WEBS 2-5=-428/253

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) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 10-5-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=126.
- 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.



November 18, 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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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/2029 Meadows
3350377	V4	Valley	1	1	155348945

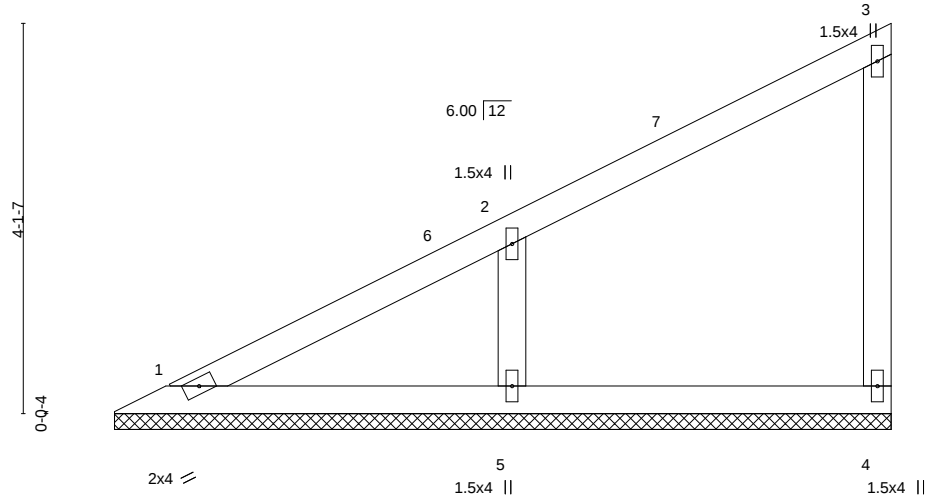
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:39 2022 Page 1

ID:3bdcgReV7IPqhseTN6p0GyyrBnO-6Tm0zOFET1tF0RnBF4gBppBhoj1mB0poW2c9lcyIDa_

8-2-13
8-2-13

Scale = 1:24.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.23	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 25 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=8-2-5, 4=8-2-5, 5=8-2-5
Max Horz 1=140(LC 9)
Max Uplift 4=-25(LC 9), 5=-107(LC 12)
Max Grav 1=122(LC 20), 4=133(LC 1), 5=420(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-326/239

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) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 8-1-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=107.
- 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.



November 18, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:39 2022 Page 1
 ID:3bdcgRev7IPqhseTN6p0GyyrBnO-6Tm0zOFt1tF0RnBF4gBppBdNj_HB0VoW2c9lcyDa_
 5-10-13
 5-10-13

Diagram of a trapezoidal embankment cross-section. The top width is 2.11 m, the bottom width is 0.04 m, and the height is 2.11 m. The embankment is composed of two layers: a top layer of 2x4 material (indicated by a cross-hatch pattern) and a bottom layer of 1.5x4 material (indicated by a diagonal hatch pattern). The embankment is supported by a 1.5x4 material base. The embankment is labeled with '1' at the top left corner, '2' at the top right corner, '3' at the bottom right corner, and '4' at the bottom left corner. The embankment is labeled with '5' at the top right corner, '6.00' at the top right corner, and '12' at the top right corner. The embankment is labeled with '1.5x4' at the bottom right corner and '2x4' at the bottom left corner. The embankment is labeled with '1.5x4' at the bottom right corner and '2x4' at the bottom left corner.

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 5-10-13 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 1=5-10-5, 3=5-10-5
 Max Horz 1=96(LC 11)
 Max Uplift 1=-30(LC 12), 3=-54(LC 12)
 Max Grav 1=231(LC 1), 3=231(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; TCDD=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 5-9-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



November 18.2022



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/2029 Meadows
3350377	V6	Valley	1	1	Job Reference (optional)

I55348947

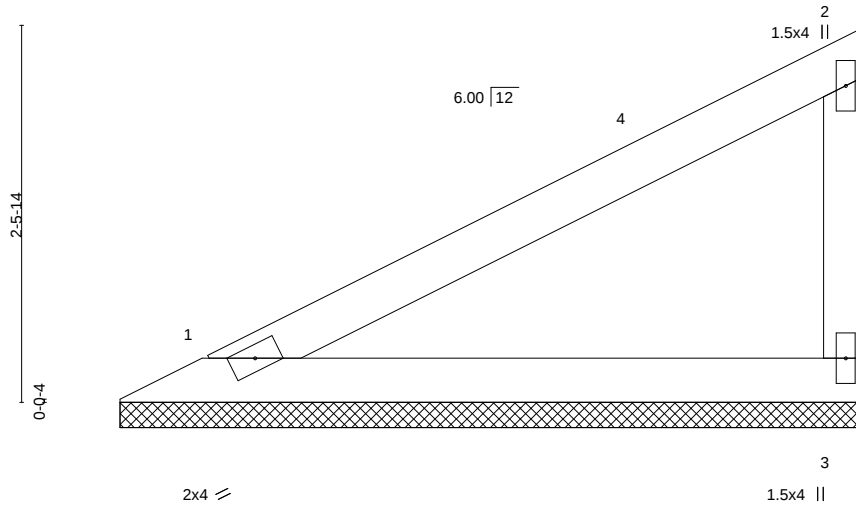
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:40 2022 Page 1

ID:3bdcgReV7IPqhseTN6p0GyyrBnO-afKOBkFGEK?6ebLNpoBQL1jpv7M0wTlykiMjp2ylDZz

4-11-12
4-11-12

Scale = 1:15.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.33	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 13 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-11-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=4-11-4, 3=4-11-4
Max Horz 1=79(LC 9)
Max Uplift 1=-24(LC 12), 3=-44(LC 12)
Max Grav 1=189(LC 1), 3=189(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) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 4-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



November 18, 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

Job	Truss	Truss Type	Qty	Ply	Summit/2029 Meadows
3350377	V7	Valley	1	1	155348948

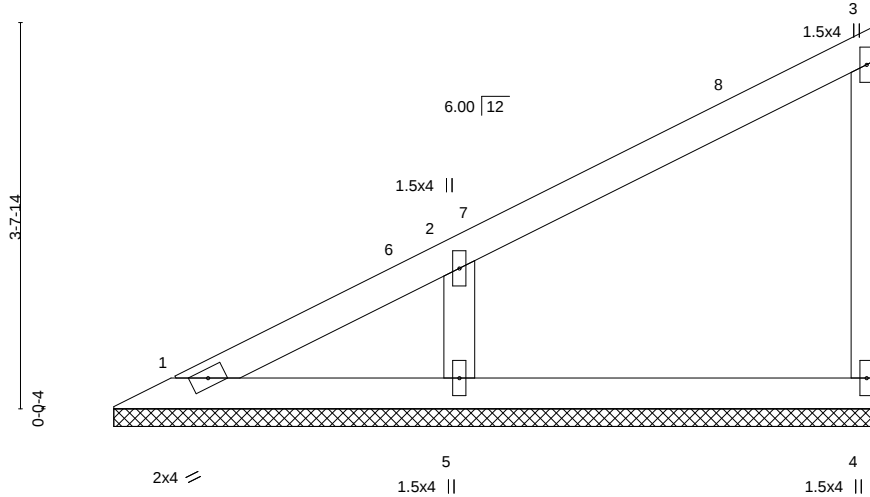
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:41 2022 Page 1

ID:3bdcgReV7IPqhseTN6p0GyyrBnO-2sunO3Gu?e7zGlwZNVifuEG1tXjWfwM5zM5GLVylDZy

7-3-12
7-3-12

Scale = 1:21.8



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 0.19	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 22 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=7-3-4, 4=7-3-4, 5=7-3-4
Max Horz 1=122(LC 9)
Max Uplift 4=-24(LC 9), 5=-103(LC 12)
Max Grav 1=83(LC 20), 4=139(LC 1), 5=377(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-293/231

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) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 7-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=103.
- 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.



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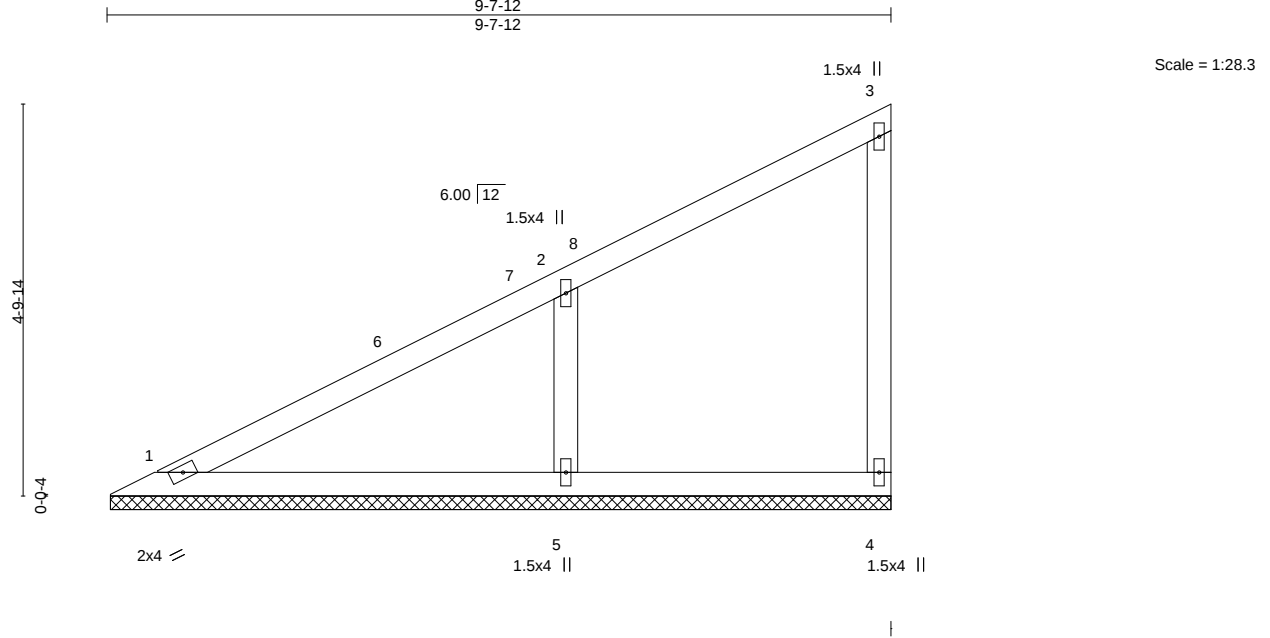
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/2029 Meadows
3350377	V8	Valley	1	1	I55348949

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:42 2022 Page 1

ID:3bdcgReV7IPqhseTN6p0GyyrBnO-X2S9cPHWmyGqtVvmwCDuQSpAcw2eONJEC0rpuxylDZx



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.32	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.06	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 30 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=9-7-4, 4=9-7-4, 5=9-7-4
Max Horz 1=166(LC 9)
Max Uplift 4=-27(LC 9), 5=-117(LC 12)
Max Grav 1=182(LC 1), 4=117(LC 1), 5=499(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-377/240

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) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 9-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=117.
- 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.



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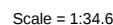
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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Chesterfield, MO 63017

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ID:3bdcgRev7IPqhseTN6p0GyyrBnO-?E0Xpll8XF0hV34yUwk7zflMFKPv7p1OOgaNQNYlDZw



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

REACTIONS. All bearings 11-11-4.
(lb) - Max Horz 1=210(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 5, 6, 7
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=385(LC 1), 7=362(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-290/186
WEBS 3-6=-302/192. 2-7=-276/153

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) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 11-10-0 zone; cantilever left and right exposed; and vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6, 7.
- 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.



November 18, 2022



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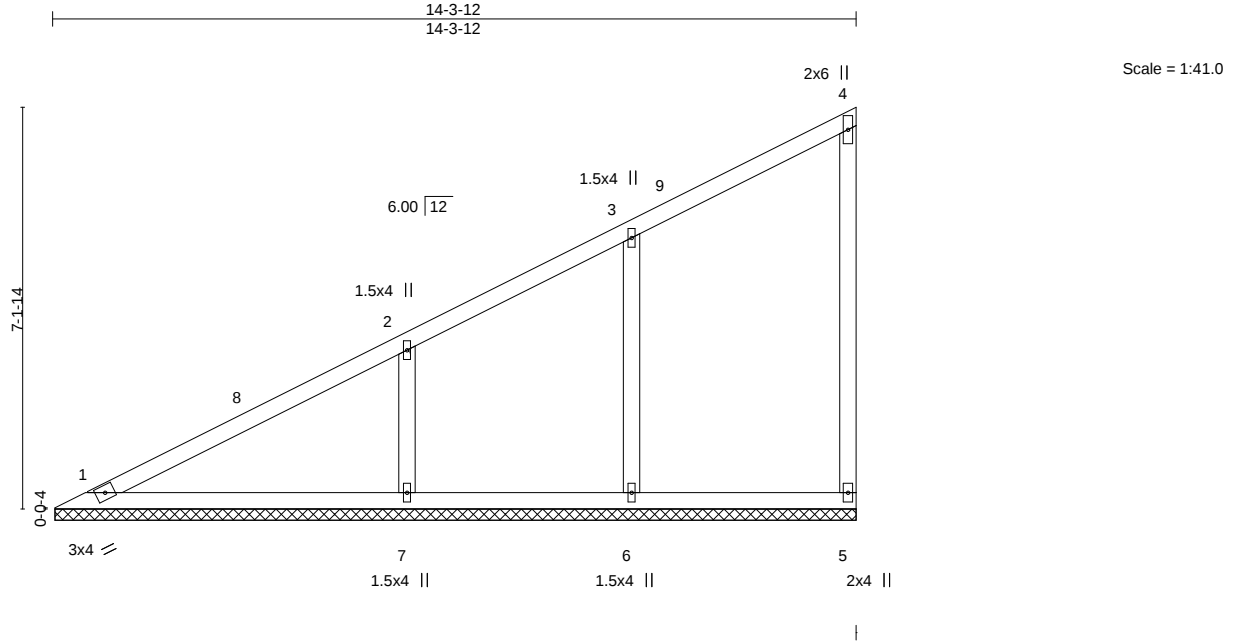


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/2029 Meadows
3350377	V10	Valley	1	1	I55348951

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:33 2022 Page 1
ID:3bdcgReV7IPqhseTN6p0GyyrBnO-HJPJkAtuB76IWJ1vqZnZYxcYlyonHKw769r4yylDa4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.40	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.22	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.11	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 49 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 14-3-4.
(lb) - Max Horz 1=253(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 5, 6 except 7=148(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=328(LC 1), 7=525(LC 1)

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

TOP CHORD 1-2=-340/211
WEBS 3-6=-262/167, 2-7=-394/222

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) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 14-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 7=148.
- 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.



November 18, 2022

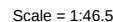
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:34 2022 Page 1
ID:3bdcgReV7iPqhseTN6p0GyyrBnO-mVz7wgBVfUfywguDSX406mToEijjWkL3MmwOdPylDa3



LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2		
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SPF No.2	WEBS	1 Row at midpt 13-14

REACTIONS. All bearings 16-7-12.
(lb) - Max Horz 1=297(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25
Max Grav All reactions 250 lb or less at joint(s) 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-496/247, 2-3=-428/214, 3-4=-403/212, 4-5=-365/199, 5-6=-331/189, 6-8=-295/178,
8-9=-260/167

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-7-7 to 3-7-7, Exterior(2N) 3-7-7 to 16-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 1.5x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) 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) 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25.
- 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.



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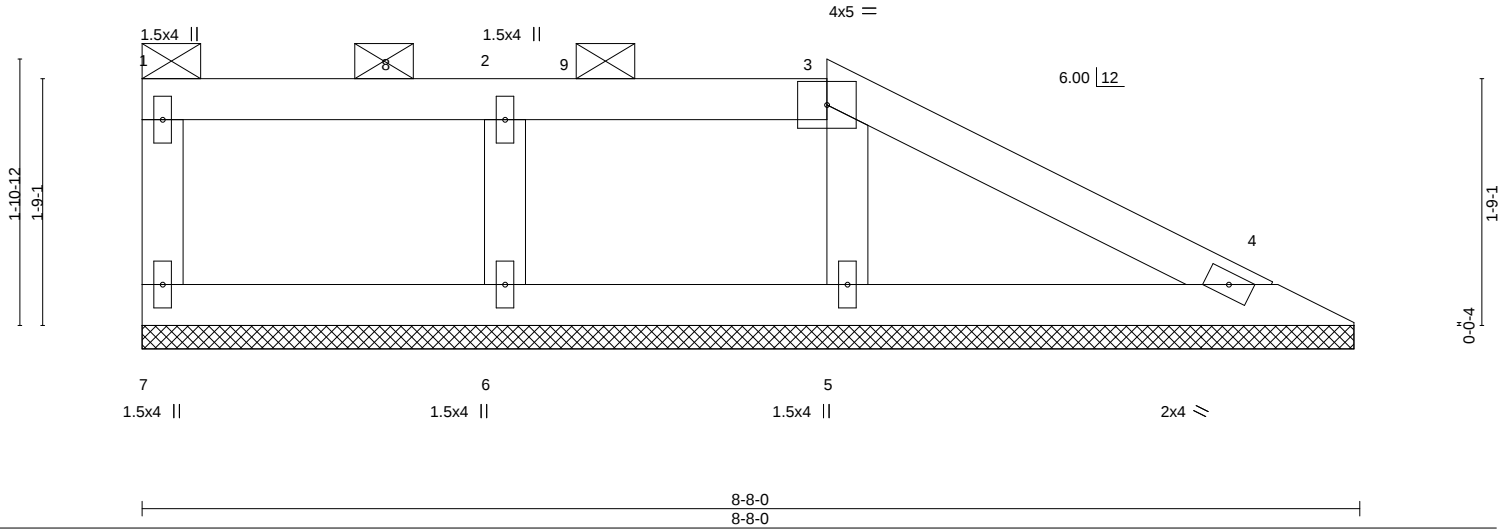
Job	Truss	Truss Type	Qty	Ply	Summit/2029 Meadows
3350377	V16	Valley	1	1	I55348953

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:35 2022 Page 1
ID:3bdcgReV7IPqhseTN6p0GyyrBnO-EiXV80C7QoNpYqTQ0EbFez00V6hmFC4CbQey9rylDa2



Scale = 1:16.4



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 0.18	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 24 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 8-8-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

All bearings 8-7-8.
(lb) - Max Horz 7=-54(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 7, 4, 5, 6
Max Grav All reactions 250 lb or less at joint(s) 7, 4, 5 except 6=257(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-10-8, Exterior(2E) 4-10-8 to 8-0-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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) 7, 4, 5, 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 18, 2022

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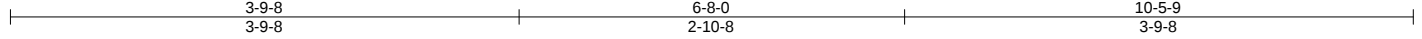
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/2029 Meadows
3350377	V17	Valley	1	1	I55348954

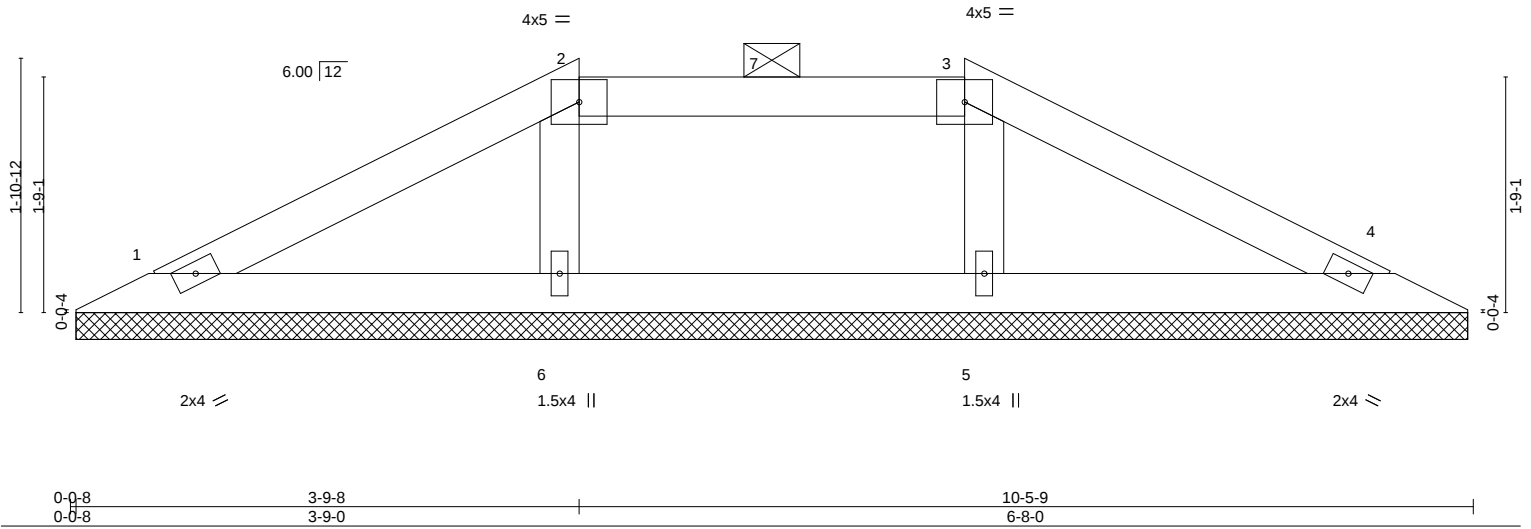
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:36 2022 Page 1

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Scale = 1:17.2



0-0-8 0-0-8	3-9-8 3-9-0		10-5-9 6-8-0	
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES
TCLL 25.0	2-0-0	TC 0.12	in (loc)	GRIP
TCDL 10.0	Plate Grip DOL 1.15	BC 0.07	Vert(LL) n/a - n/a	MT20 197/144
BCLL 0.0	Lumber DOL 1.15	WB 0.03	Vert(CT) n/a - n/a	
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 4 n/a	
	Code IRC2018/TPI2014			Weight: 26 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x4 SPF No.2	2-0-0 oc purlins (6-0-0 max.): 2-3.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SPF No.2	

REACTIONS. All bearings 10-4-9.
 (lb) - Max Horz 1=-24(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 4, 5, 6
 Max Grav All reactions 250 lb or less at joint(s) 1, 4 except 5=300(LC 26), 6=300(LC 25)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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, 4, 5, 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 18, 2022

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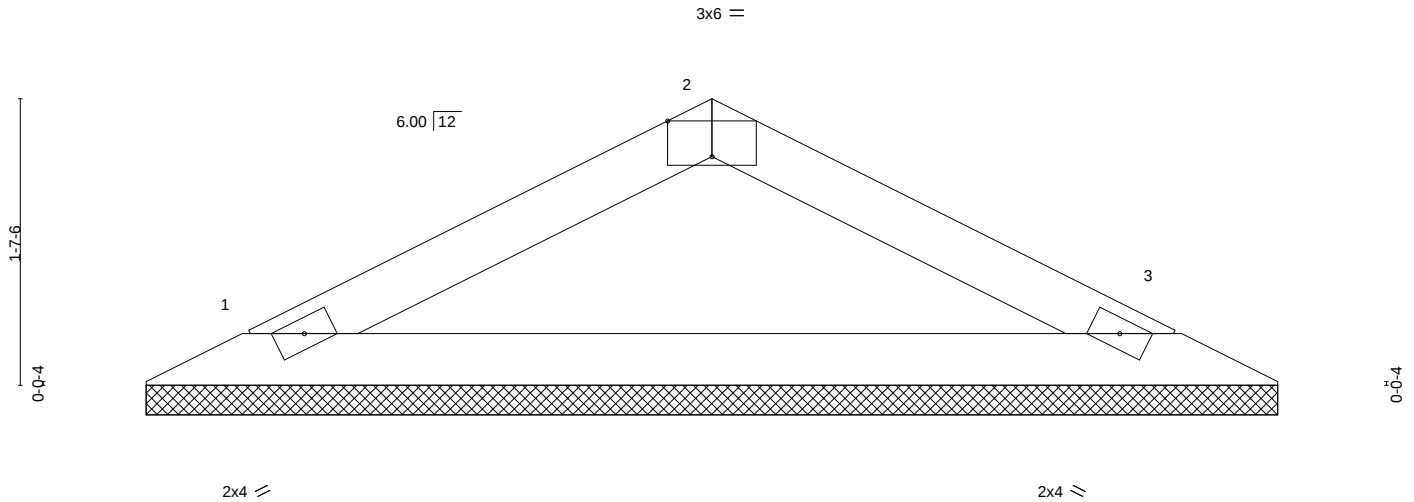
Job	Truss	Truss Type	Qty	Ply	Summit/2029 Meadows
3350377	V18	Valley	1	1	I55348955

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Nov 17 16:34:36 2022 Page 1
ID:3bdcgReV7IPqhseTN6p0GyyrBnO-iu5uLMCIB6Vg9_2cay6UBBZCCWzH_fIMp4OVhHylDa1



Scale = 1:13.0



		0-0-8		6-5-9					
		0-0-8		6-5-1					
Plate Offsets (X,Y)--		[2:0-3-0,Edge]							
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.12	Vert(LL)	n/a -	n/a 999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	n/a -	n/a 999		
BCLL	0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00 3	n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P				Weight: 14 lb	FT = 20%

LUMBER-

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

REACTIONS.

(size) 1=6-4-9, 3=6-4-9
Max Horz 1=-21(LC 17)
Max Uplift 1=-29(LC 12), 3=-29(LC 13)
Max Grav 1=234(LC 1), 3=234(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; 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 and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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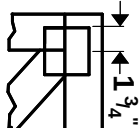
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



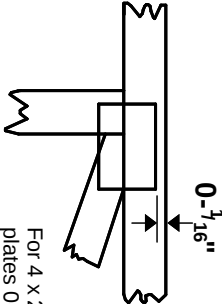
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless X, Y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{3}{16}$ " from outside edge of truss.

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

*** Plate location details available in MiTek 2012 software or upon request.**

PLATE SIZE

4 X 4

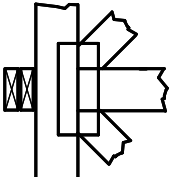
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



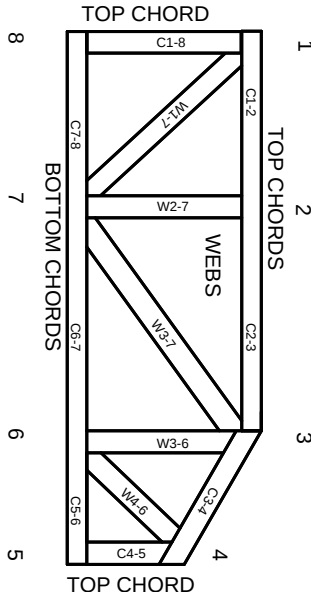
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: 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.