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MiTek

Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.

RE: 4011201 - STEEDLEY RES.

MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:
Customer Info: QUENTIN STEEDLEY Project Name: Steedley Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 22854 S Hwy 441, N/A
City: Columbia Cty State: FI

Name Address and License # of Structural Engineer of Record, If there is one, for the building.
Name: License #:
Address:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.7
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 62 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

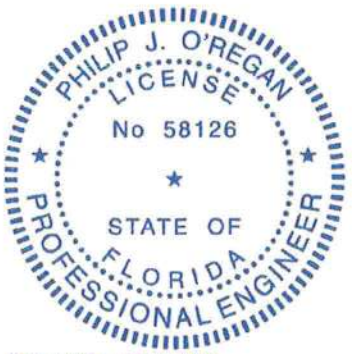
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T34113836	CJ01	6/10/24	15	T34113850	PB06	6/10/24
2	T34113837	CJ03	6/10/24	16	T34113851	T01	6/10/24
3	T34113838	CJ05	6/10/24	17	T34113852	T01G	6/10/24
4	T34113839	EJ01	6/10/24	18	T34113853	T02	6/10/24
5	T34113840	HJ10	6/10/24	19	T34113854	T03	6/10/24
6	T34113841	PB01	6/10/24	20	T34113855	T03G	6/10/24
7	T34113842	PB01G	6/10/24	21	T34113856	T04	6/10/24
8	T34113843	PB02	6/10/24	22	T34113857	T04G	6/10/24
9	T34113844	PB03	6/10/24	23	T34113858	T05	6/10/24
10	T34113845	PB03G	6/10/24	24	T34113859	T06	6/10/24
11	T34113846	PB04	6/10/24	25	T34113860	T06G	6/10/24
12	T34113847	PB04G	6/10/24	26	T34113861	T07	6/10/24
13	T34113848	PB05	6/10/24	27	T34113862	T08	6/10/24
14	T34113849	PB05G	6/10/24	28	T34113863	T09	6/10/24

This item has been digitally signed and sealed by ORegan, Philip, PE on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: ORegan, Philip
My license renewal date for the state of Florida is February 28, 2025.

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.



Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

MiTek®

RE: 4011201 - STEEDLEY RES.

MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: QUENTIN STEEDLEY Project Name: Steedley Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 22854 S Hwy 441, N/A
City: Columbia Cty State: Fl

No.	Seal#	Truss Name	Date
29	T34113864	T09G	6/10/24
30	T34113865	T10	6/10/24
31	T34113866	T10A	6/10/24
32	T34113867	T10G	6/10/24
33	T34113868	T11	6/10/24
34	T34113869	T11G	6/10/24
35	T34113870	T12	6/10/24
36	T34113871	T13	6/10/24
37	T34113872	T13G	6/10/24
38	T34113873	T14	6/10/24
39	T34113874	T15	6/10/24
40	T34113875	T16	6/10/24
41	T34113876	TF01	6/10/24
42	T34113877	TF01G	6/10/24
43	T34113878	V08	6/10/24
44	T34113879	V09	6/10/24
45	T34113880	V10	6/10/24
46	T34113881	V11	6/10/24
47	T34113882	V12	6/10/24
48	T34113883	V13	6/10/24
49	T34113884	V14	6/10/24
50	T34113885	V15	6/10/24
51	T34113886	V16	6/10/24
52	T34113887	V17	6/10/24
53	T34113888	V18	6/10/24
54	T34113889	V19	6/10/24
55	T34113890	V20	6/10/24
56	T34113891	V21	6/10/24
57	T34113892	V22	6/10/24
58	T34113893	V23	6/10/24
59	T34113894	V24	6/10/24
60	T34113895	V25	6/10/24
61	T34113896	V26	6/10/24
62	T34113897	V27	6/10/24

Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.	T34113836
4011201	CJ01	Jack-Open	4	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:08 2024 Page 1
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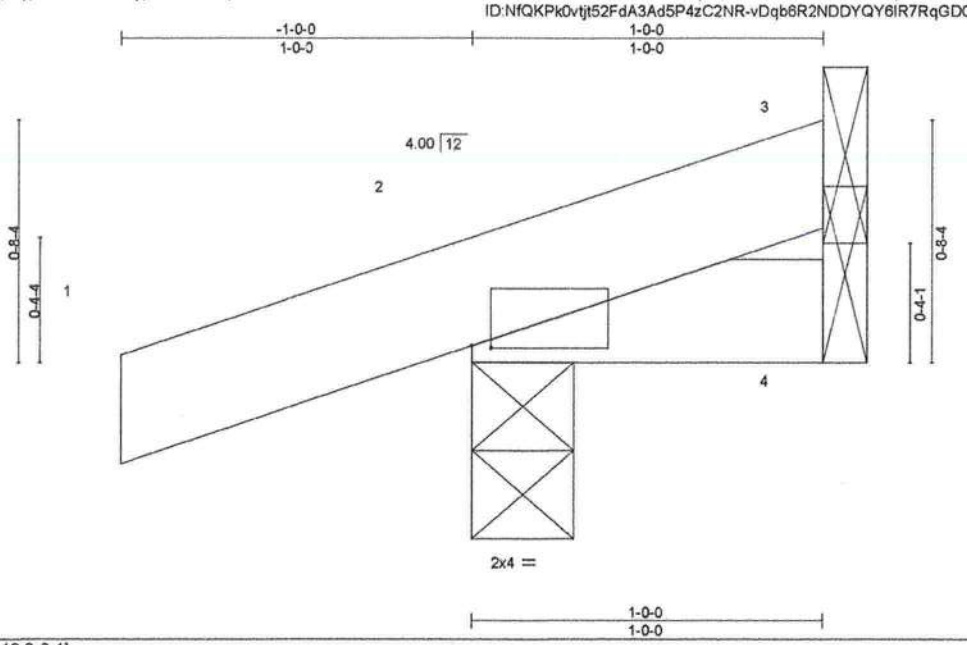

Plate Offsets (X,Y)-- [2:0-0-10,0-0-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.08	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.01	Vert(CT)	-0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 5 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-0-0 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=30(LC 8)
Max Uplift 3=-6(LC 9), 2=-85(LC 8), 4=-4(LC 9)
Max Grav 3=9(LC 3), 2=118(LC 1), 4=11(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.
4011201	CJ03	Jack-Open	4	1	T34113837
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:09 2024 Page 1
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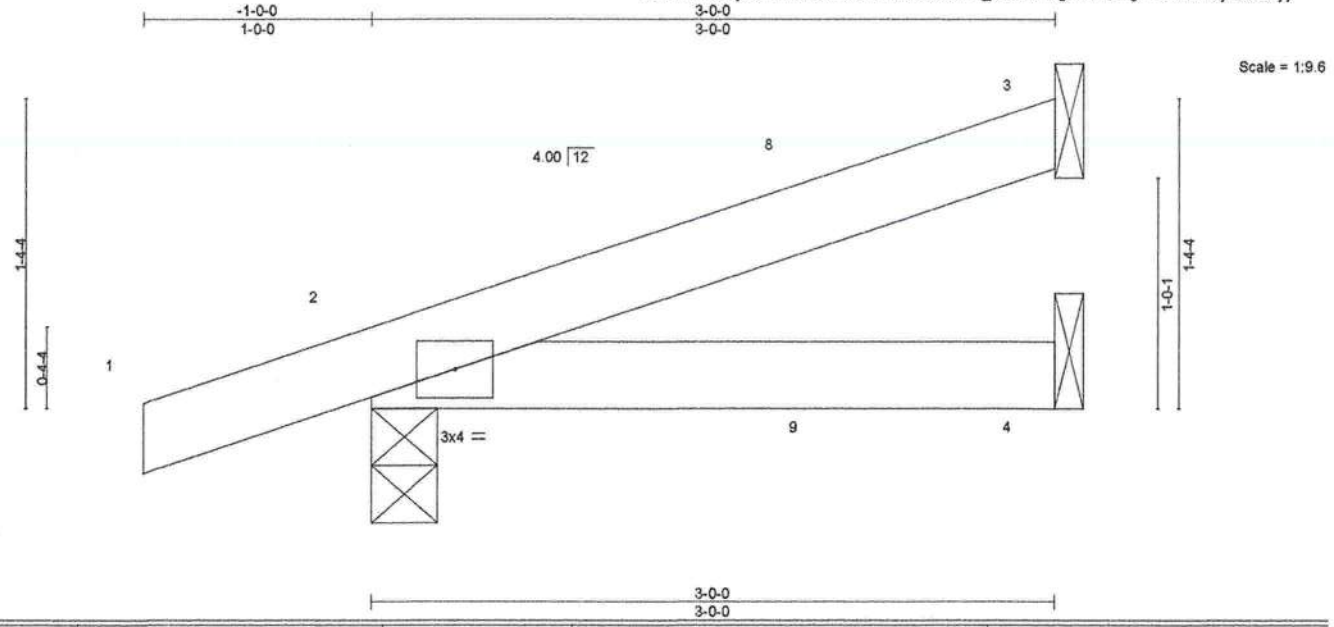

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.08	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 11 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-0 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=55(LC 8)
Max Uplift 3=-40(LC 8), 2=-107(LC 8), 4=-22(LC 8)
Max Grav 3=64(LC 1), 2=172(LC 1), 4=50(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 2-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=107.

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.
4011201	CJ05	Jack-Open	4	1	T34113838
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:09 2024 Page 1
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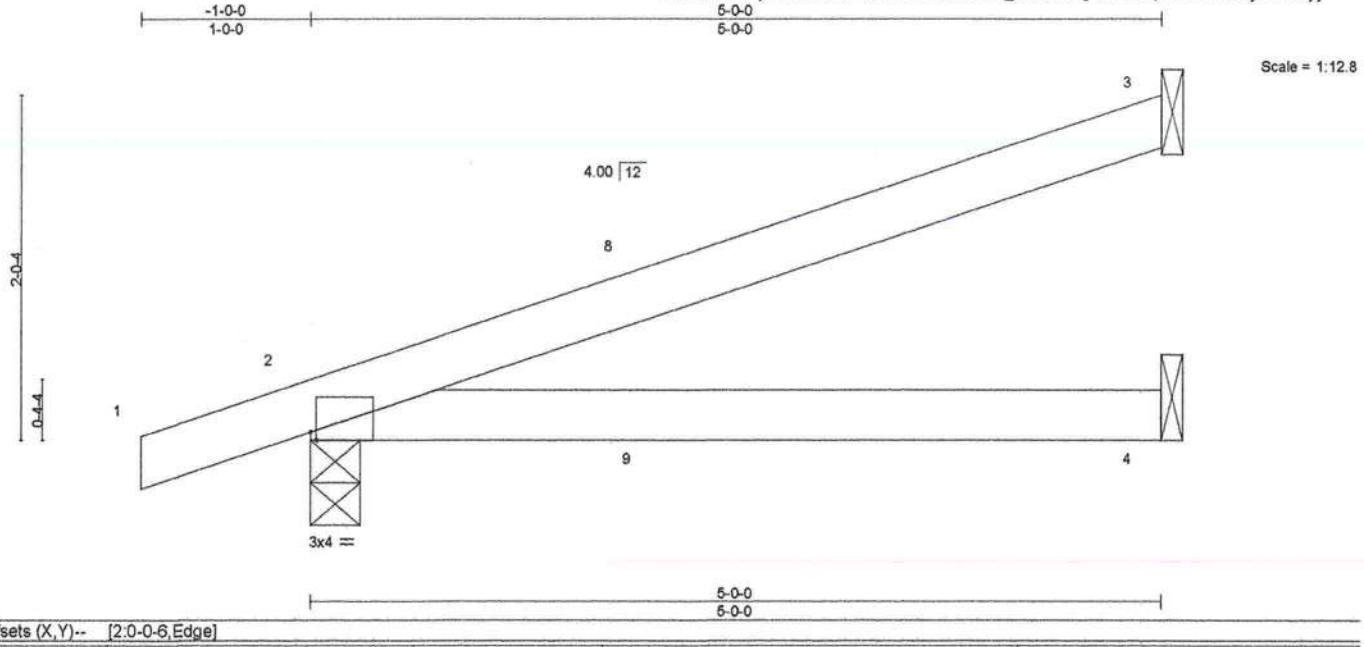

Plate Offsets (X,Y)-- [2:0-0-6,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	0.06	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.06	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 17 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 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=81(LC 8)
Max Uplift 3=-73(LC 8), 2=-142(LC 8), 4=-39(LC 8)
Max Grav 3=115(LC 1), 2=242(LC 1), 4=87(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 4-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=142.

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113839
4011201	EJ01	Jack-Partial	12	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:09 2024 Page 1
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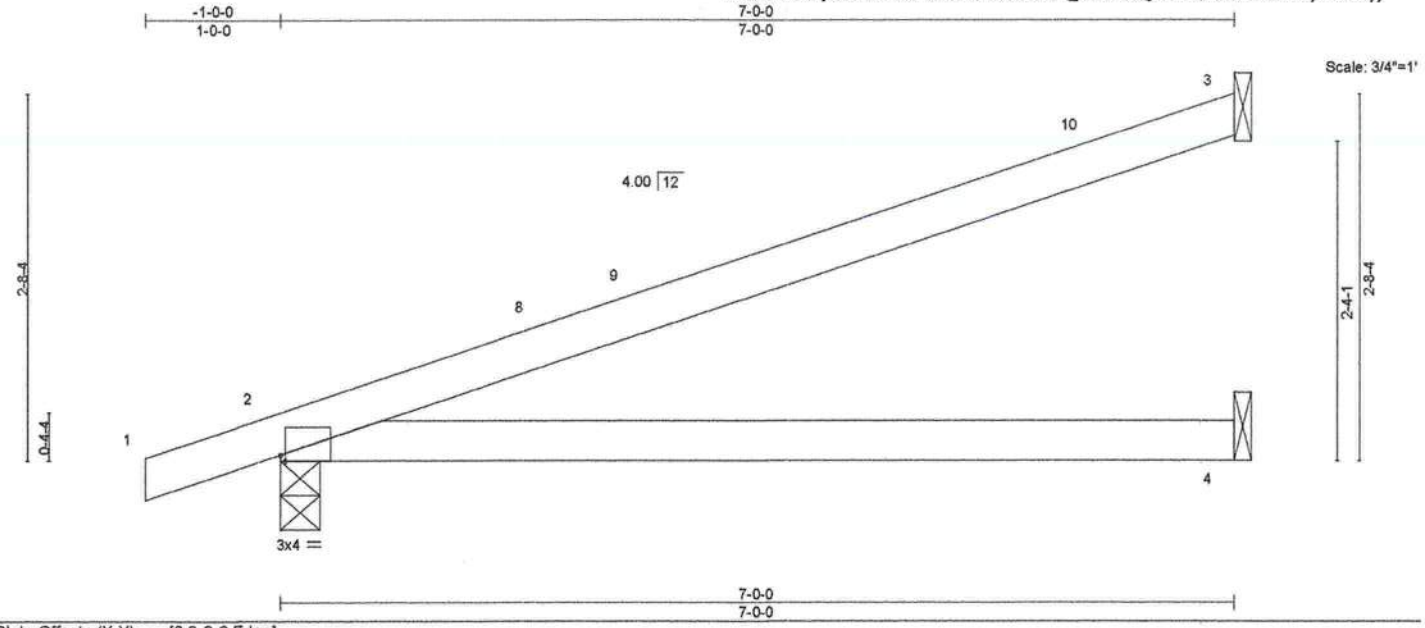

Plate Offsets (X,Y)-- [2:0-0-6,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	0.12	4-7	>683	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.22	4-7	>373	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 23 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP 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) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=106(LC 8)
Max Uplift 3=-95(LC 8), 2=-115(LC 8), 4=-1(LC 12)
Max Grav 3=165(LC 1), 2=315(LC 1), 4=124(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 6-11-4 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=115.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.
4011201	HJ10	Diagonal Hip Girder	2	1	T34113840

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:10 2024 Page 1
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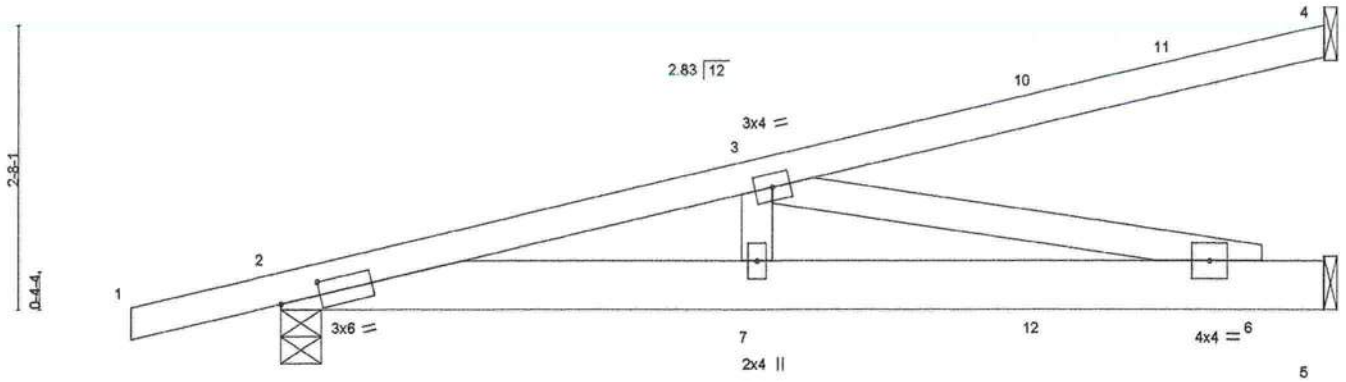

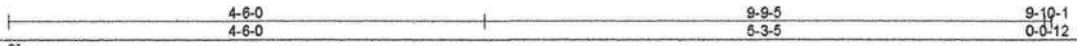

Plate Offsets (X,Y)-- [2:0-4-9,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	0.07	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.09	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 48 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-4-14 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=103(LC 21)
Max Uplift 4=-85(LC 8), 2=-301(LC 4), 5=-199(LC 4)
Max Grav 4=153(LC 1), 2=499(LC 1), 5=321(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1192/670
BOT CHORD 2-7=-717/1160, 6-7=-717/1160
WEBS 3-7=-103/264, 3-6=-1187/733

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=301, 5=199.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 24 lb down and 48 lb up at 4-4-0, 24 lb down and 48 lb up at 4-4-0, and 45 lb down and 85 lb up at 7-1-15, and 45 lb down and 85 lb up at 7-1-15 on top chord , and 3 lb down and 9 lb up at 1-6-1, 3 lb down and 9 lb up at 1-6-1, 20 lb down and 32 lb up at 4-4-0, 20 lb down and 32 lb up at 4-4-0, and 41 lb down and 55 lb up at 7-1-15, and 41 lb down and 55 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) 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=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 2-5=-20
Concentrated Loads (lb)
Vert: 3=-2(F=-1, B=-1) 7=-18(F=-9, B=-9) 9=-7(F=-3, B=-3) 10=-77(F=-39, B=-39) 12=-68(F=-34, B=-34)

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Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113841
4011201	PB01	GABLE	14	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:10 2024 Page 1
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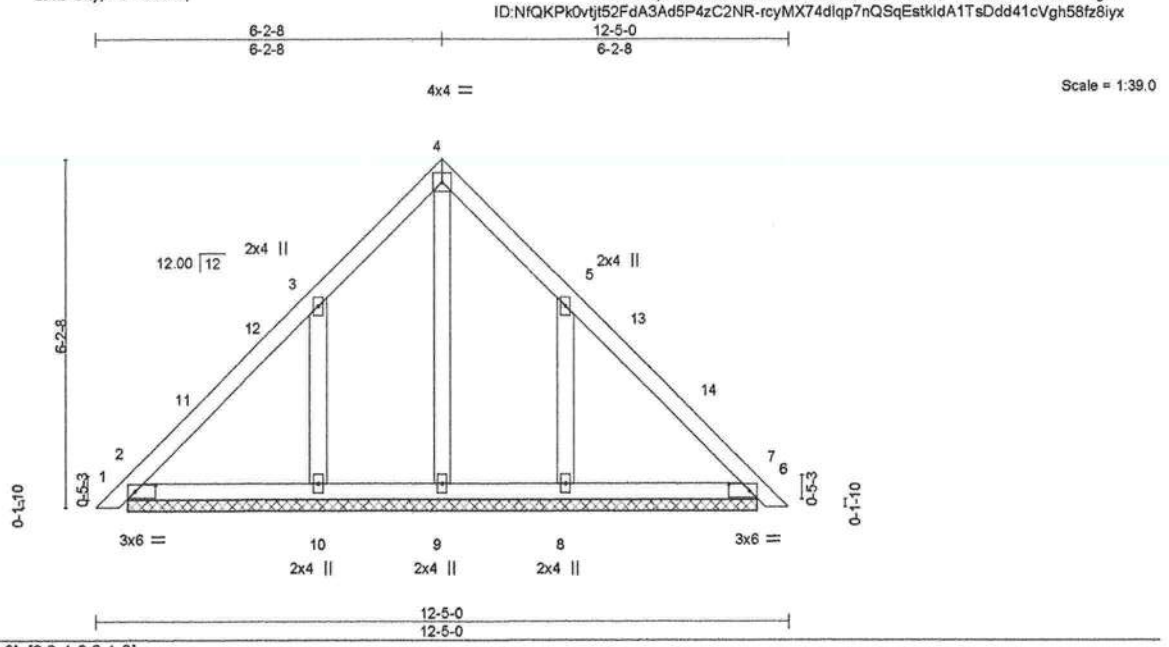

Plate Offsets (X,Y)-- [2:0-4-6,0-1-8], [6:0-4-6,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	0.00	7	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	0.00	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 61 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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 11-3-6.
(lb) - Max Horz 2=-148(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 8=-229(LC 13), 10=-230(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9 except 8=308(LC 20), 10=309(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-8=-221/276, 3-10=-222/276

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-10 to 3-2-10, Zone1 3-2-10 to 6-2-8, Zone2 6-2-8 to 10-5-7, Zone1 10-5-7 to 12-2-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 8=229, 10=230.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Philip J. O'Regan PE No.58126
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Date:

June 10,2024

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.	T34113842
4011201	PB01G	GABLE	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:11 2024 Page 1
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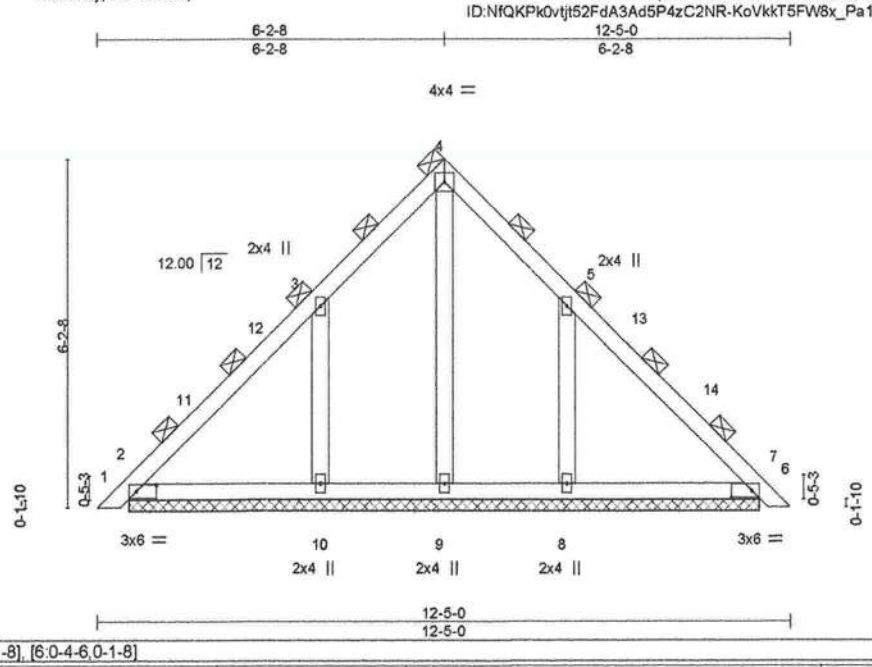

Plate Offsets (X,Y)-- [2:0-4-6,0-1-8], [6:0-4-6,0-1-8]

LOADING (psf)		SPACING-	5-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	0.00	7	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	0.00	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 121 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheeted: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-3-6.
(lb) - Max Horz 2=-370(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 8=-574(LC 13), 10=-576(LC 12)
Max Grav All reactions 250 lb or less at joint(s) except 2=372(LC 20), 6=342(LC 1), 9=318(LC 13), 8=769(LC 20), 10=771(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-335/285, 3-4=-225/330, 4-5=-224/336, 5-6=-290/219
BOT CHORD 2-10=-170/353, 9-10=-170/353, 8-9=-170/353, 6-8=-170/353
WEBS 4-9=-327/133, 5-8=-553/645, 3-10=-556/645

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-10 to 3-2-10, Zone1 3-2-10 to 6-2-8, Zone2 6-2-8 to 10-5-7, Zone1 10-5-7 to 12-2-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
5) 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.
6) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 4-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 8=574, 10=576.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
13) 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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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.	T34113843
4011201	PB02	GABLE	2	3	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:12 2024 Page 1
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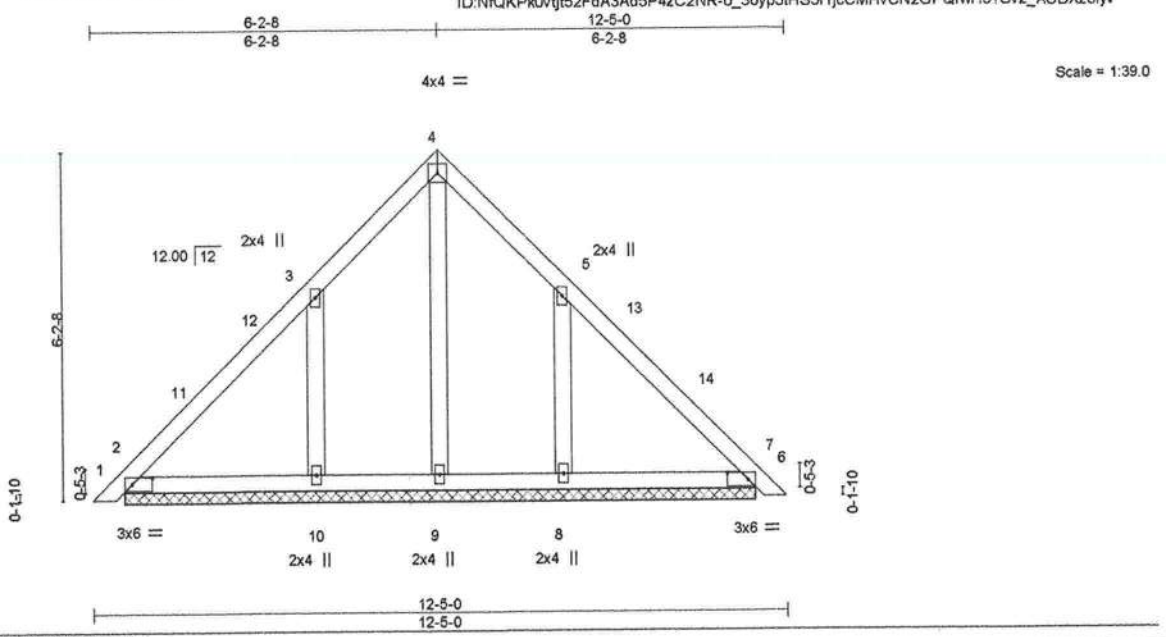

Plate Offsets (X,Y)-- [2:0-4-6,0-1-8], [6:0-4-6,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.05	Vert(LL)	0.00	6	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	0.00	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 182 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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 11-3-6.
(lb) - Max Horz 2=-148(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 8=-229(LC 13), 10=-230(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9 except 8=308(LC 20), 10=309(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-8=-221/276, 3-10=-222/276

NOTES-
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-10 to 3-2-10, Zone1 3-2-10 to 6-2-8, Zone2 6-2-8 to 10-5-7, Zone1 10-5-7 to 12-2-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DO_=1.60 plate grip DOL=1.60
5) 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.
6) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 4-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 8=229, 10=230.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.	T34113844
4011201	PB03	GABLE	27	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:12 2024 Page 1
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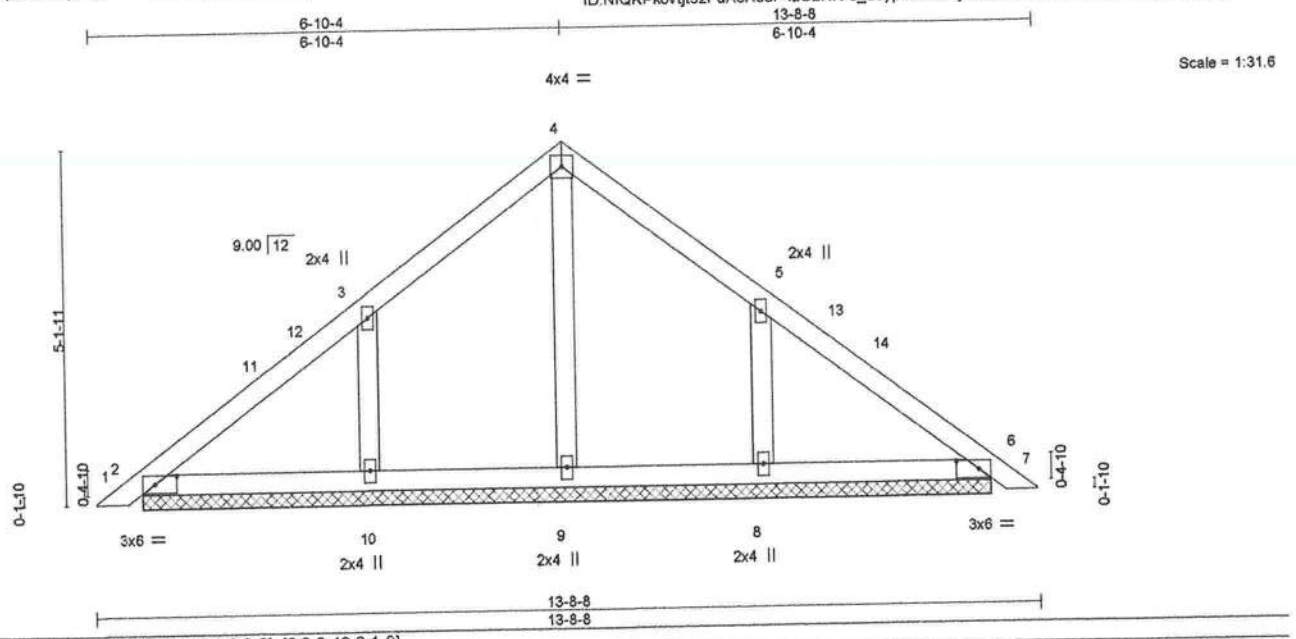

Plate Offsets (X,Y)-- [2:0-3-13,0-1-8], [3:0-0-0,0-0-0], [6:0-3-13,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.12	Vert(LL)	0.00	7	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	0.00	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 57 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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 12-3-13.
(lb) - Max Horz 2=122(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 8=-173(LC 13), 10=-174(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9 except 8=297(LC 20), 10=298(LC 19)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-1 to 3-3-1, Zone1 3-3-1 to 6-10-4, Zone2 6-10-4 to 11-1-3, Zone1 11-1-3 to 13-5-7 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 8=173, 10=174.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113845
4011201	PB03G	GABLE	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:13 2024 Page 1
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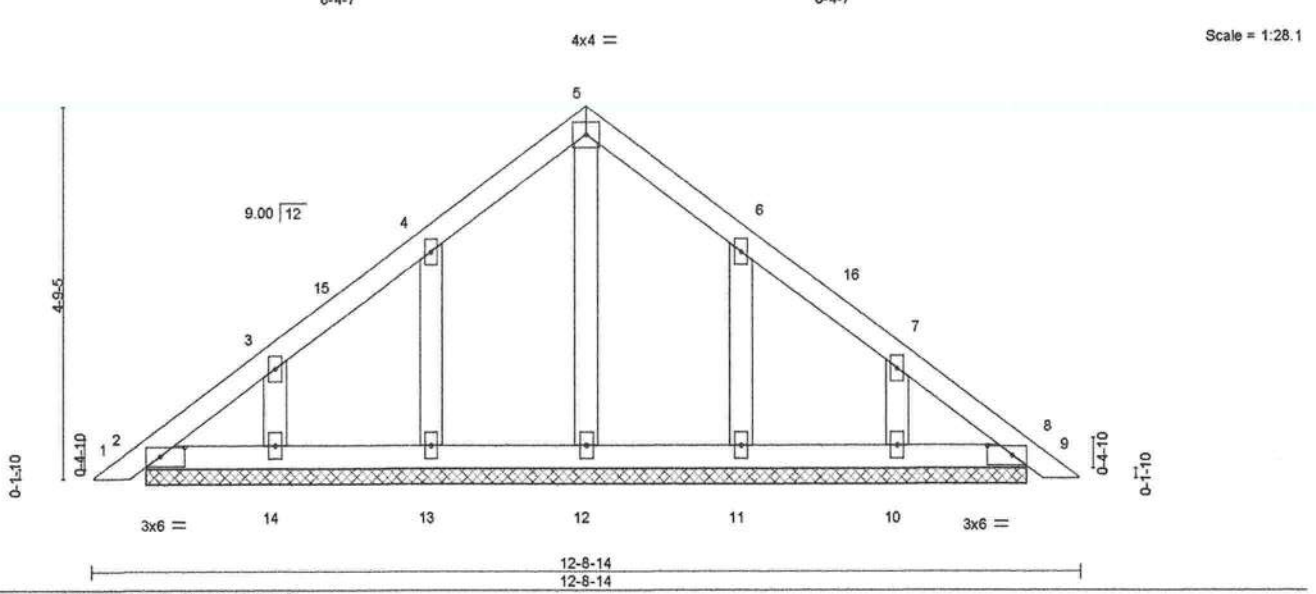

Plate Offsets (X,Y)-- [2:0-3-13,0-1-8], [8:0-3-13,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.05	Vert(LL)	0.00	8	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	8	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 57 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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 11-4-3.
(lb) - Max Horz 2=113(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-1 to 3-3-1, Zone1 3-3-1 to 6-4-7, Zone2 6-4-7 to 10-4-7, Zone1 10-4-7 to 12-5-13 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 10.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Date:

June 10,2024

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113846
4011201	PB04	GABLE	17	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:13 2024 Page 1
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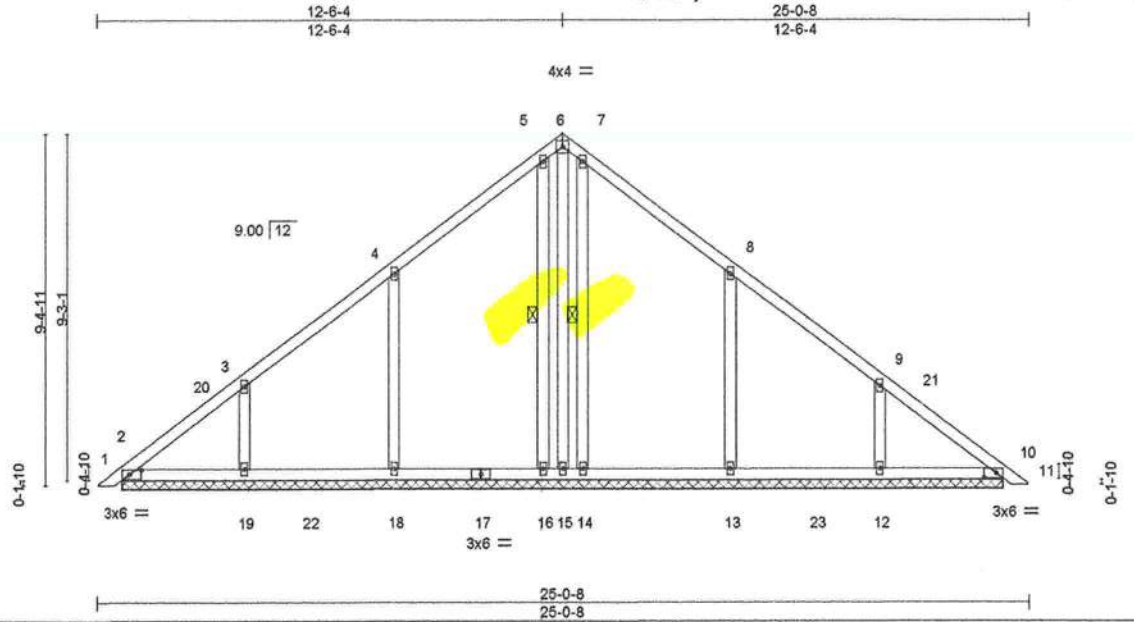

Plate Offsets (X,Y)-- [2:0-3-13,0-1-8], [3:0-0-0,0-0-0], [4:0-0-0,0-0-0], [5:0-0-0,0-0-0], [10:0-3-13,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	0.00	11	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	0.00	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 142 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-14, 5-16

REACTIONS. All bearings 23-7-13.
(lb) - Max Horz 2=-227(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 16, 10 except 15=-396(LC 18), 12=-186(LC 13), 13=-194(LC 13), 19=-187(LC 12), 18=-194(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 15, 10 except 12=390(LC 20), 13=452(LC 20), 14=440(LC 20), 19=391(LC 19), 18=451(LC 19), 16=459(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 8-13=-253/221, 4-18=-252/220

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-1 to 3-3-1, Zone1 3-3-1 to 12-6-4, Zone2 12-6-4 to 17-0-8, Zone1 17-0-8 to 24-9-7 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 16, 10 except (jt=lb) 15=396, 12=186, 13=194, 19=187, 18=194.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.	T34113847
4011201	PB04G	GABLE	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:14 2024 Page 1
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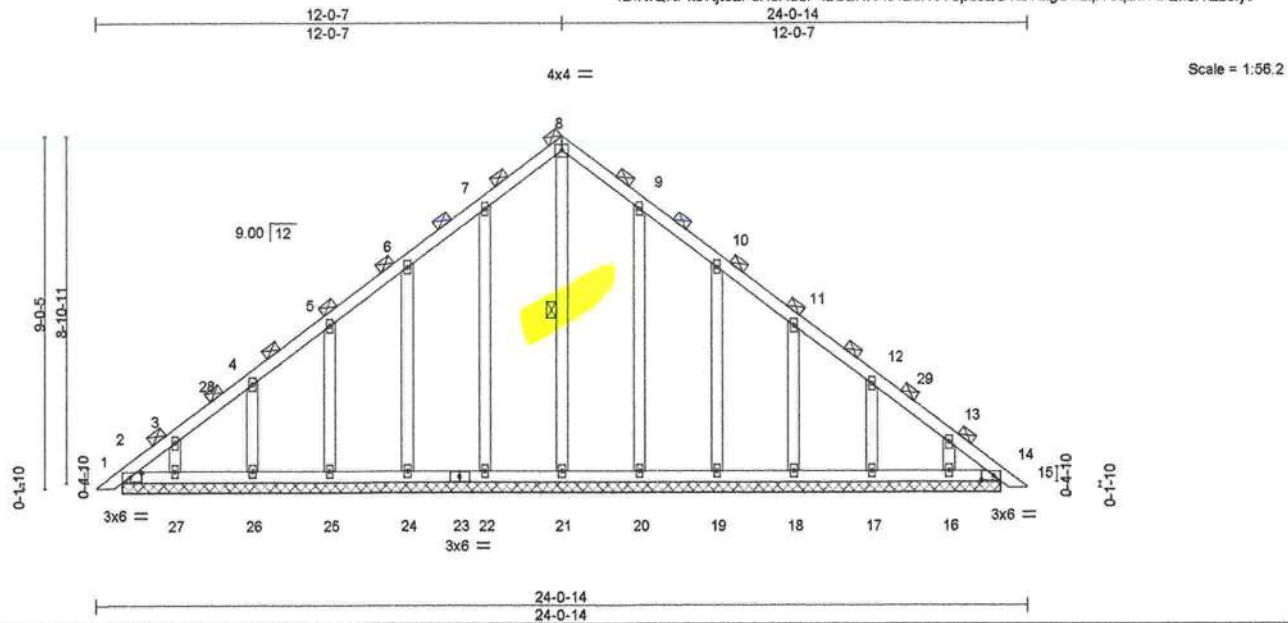

Plate Offsets (X,Y)-- [2:0-3-13,0-1-8], [14:0-3-13,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.05	Vert(LL)	0.00	14	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	14	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	14	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 148 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 8-21

REACTIONS. All bearings 22-8-3.
(lb) - Max Horz 2=218(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 24, 25, 26, 27, 20, 19, 18, 17, 16, 14
Max Grav All reactions 250 lb or less at joint(s) 2, 21, 22, 24, 25, 26, 27, 20, 19, 18, 17, 16, 14

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-1 to 3-3-1, Zone1 3-3-1 to 12-0-7, Zone2 12-0-7 to 16-0-7, Zone1 16-0-7 to 23-9-13 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 22, 24, 25, 26, 27, 20, 19, 18, 17, 16, 14.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
12) 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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Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date: June 10,2024

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113848
4011201	PB05	Piggyback	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:15 2024 Page 1
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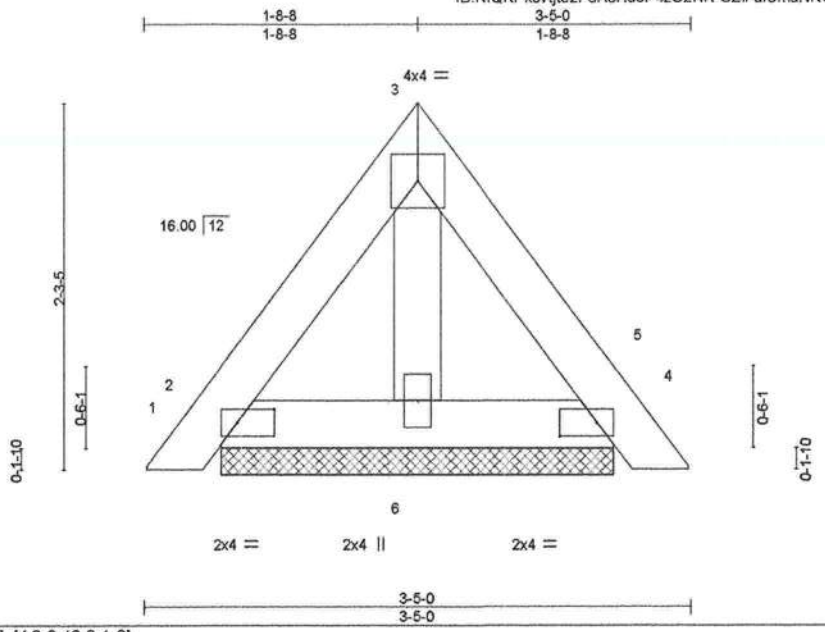

Plate Offsets (X,Y)-- [2:0-2-12,0-1-0], [4:0-2-12,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.03	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 14 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. (size) 2=2-5-7, 4=2-5-7, 6=2-5-7
Max Horz 2=-54(LC 8)
Max Uplift 2=-30(LC 13), 4=-27(LC 12)
Max Grav 2=63(LC 1), 4=63(LC 1), 6=70(LC 3)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113849
4011201	PB05G	PIGGYBACK	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:15 2024 Page 1
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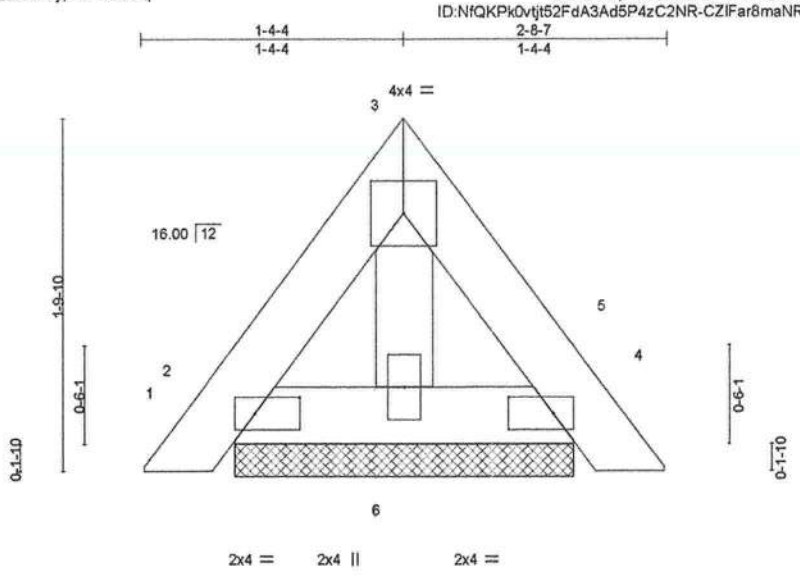

Scale = 1:11.2

Plate Offsets (X,Y)-- [2:0-2-12,0-1-0], [4:0-2-12,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.02	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.01	Vert(CT)	0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 11 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. (size) 2=1-8-14, 4=1-8-14, 6=1-8-14
Max Horz 2=41(LC 9)
Max Uplift 2=-23(LC 13), 4=-21(LC 13)
Max Grav 2=46(LC 1), 4=46(LC 1), 6=49(LC 3)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DCL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Date:

June 10,2024

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113850
4011201	PB06	Piggyback	1	2	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:16 2024 Page 1
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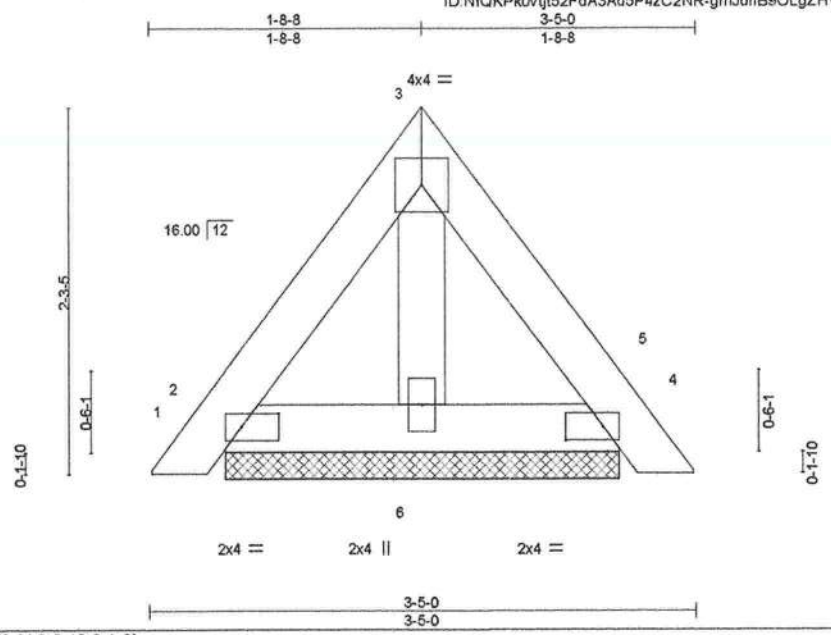

Plate Offsets (X,Y)-- [2:0-2-12,0-1-0], [4:0-2-12,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.02	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.01	Vert(CT)	0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 28 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. (size) 2=2-5-7, 4=2-5-7, 6=2-5-7
Max Horz 2=-54(LC 8)
Max Uplift 2=-30(LC 13), 4=-27(LC 12)
Max Grav 2=63(LC 1), 4=63(LC 1), 6=70(LC 3)

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

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Gable requires continuous bottom chord bearing.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Date:

June 10,2024

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.	T34113851
4011201	T01	Attic	12	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:17 2024 Page 1
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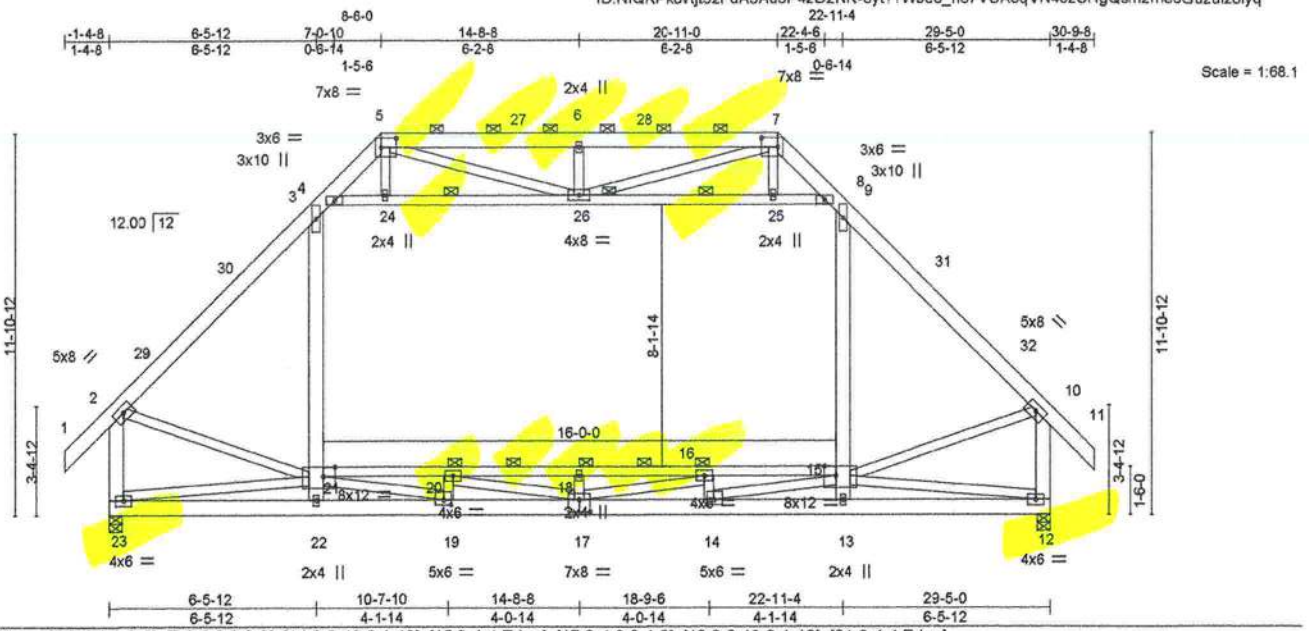

Plate Offsets (X,Y)-- [5:0-6-0,0-3-8], [7:0-6-0,0-3-8], [14:0-2-12,0-1-12], [15:0-4-4,Edge], [17:0-4-0,0-4-8], [19:0-2-12,0-1-12], [21:0-4-4,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.19	16-18	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.30	16-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.01	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Attic	-0.16	15-21	1197	360	Weight: 353 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP M 26 *Except*
15-21: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
3-22,9-13,2-23,10-12: 2x6 SP No.2
4-8,19-21,17-20,16-17,14-15: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-7 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
3-10-0 oc bracing: 18-20, 16-18
4-11-0 oc bracing: 20-21, 15-16
WEBS 1 Row at midpt 4-26, 8-26
JOINTS 1 Brace at Jt(s): 26, 20, 18, 16

REACTIONS. (size) 23=0-5-0, 12=0-5-0
Max Horz 23=-357(LC 10)
Max Uplift 23=-23(LC 12), 12=-23(LC 13)
Max Grav 23=2082(LC 2), 12=2082(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2209/0, 3-4=-1384/127, 4-5=-665/220, 5-6=-1077/437, 6-7=-1077/437, 7-8=-665/221, 8-9=-1384/125, 9-10=-2209/0, 2-23=-2148/0, 10-12=-2148/0
BOT CHORD 22-23=-995/504, 19-22=-1145/512, 17-19=-99/2329, 14-17=0/2241, 13-14=-949/272, 12-13=-799/265, 20-21=-788/118, 18-20=-1878/0, 16-18=-1878/0, 15-16=-861/217
WEBS 21-22=0/324, 3-21=0/1191, 13-15=0/324, 9-15=0/1191, 4-24=-1357/48, 24-26=-1350/50, 25-26=-1350/52, 8-25=-1357/50, 2-21=0/1527, 10-15=0/1537, 6-26=-354/206, 5-26=-297/702, 7-26=-297/702, 19-20=-935/0, 17-18=-529/0, 14-16=-935/0, 19-21=0/3254, 17-20=-124/1183, 16-17=-136/1192, 14-15=0/3254, 12-15=-263/847, 21-23=-174/774

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-8 to 1-7-8, Zone1 1-7-8 to 8-6-0, Zone2 8-6-0 to 12-8-15, Zone1 12-8-15 to 20-11-0, Zone2 20-11-0 to 25-1-15, Zone1 25-1-15 to 30-9-8 zone; 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-24, 24-26, 25-26, 8-25; Wall dead load (5.0psf) on member(s).3-21, 9-15
8) Bottom chord live load (50.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 20-21, 18-20, 16-18, 15-16
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 12.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Attic room checked for L/360 deflection.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

MiTek®
16023 Swingley Ridge Rd.
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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.	T34113852
4011201	T01G	ATTIC	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:18 2024 Page 1
ID:NfQKPk0vtjt52FdA3Ad5P4zC2NR-c8QNCsAetIp?Ie3MiY0cdJWL_4n5VXSnLwdWQBz8iyp

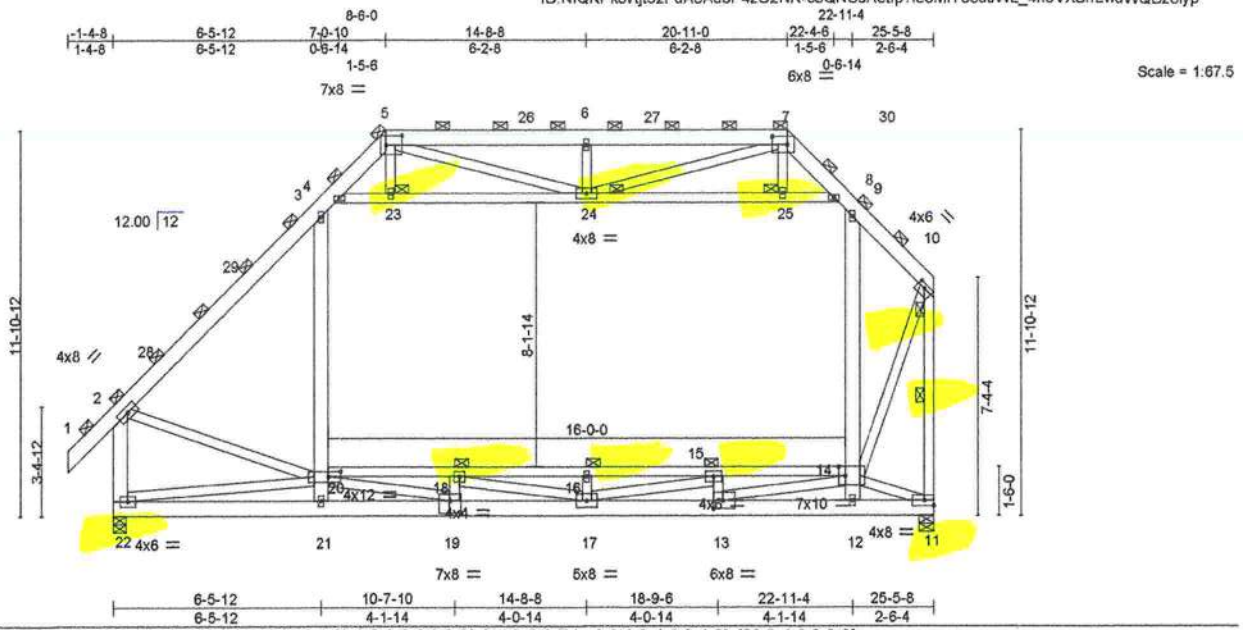

Plate Offsets (X,Y)-- [5:0-6-0,0-3-8], [7:0-5-8,0-3-0], [10:0-2-12,0-1-8], [13:0-3-8,0-3-0], [14:0-2-8,Edge], [19:0-4-0,0-4-8], [20:0-4-8,0-2-0]

LOADING (psf)		SPACING-	3-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.13	16-18	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.24	16-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS		Attic	-0.10	14-20	1896	360	Weight: 648 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP M 26 *Except*
14-20: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
3-21,9-12,2-22: 2x6 SP No.2
4-8,19-20,17-18,15-17,13-14: 2x4 SP No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
(Switched from sheeted: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 10-11
JOINTS 1 Brace at Jt(s): 5, 7, 2, 10, 23, 24, 25, 18, 16, 15

REACTIONS. (size) 22=0-5-0, 11=0-5-8
Max Horz 22=427(LC 9)
Max Uplift 22=-22(LC 12)
Max Grav 22=2536(LC 2), 11=2870(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2233/0, 3-4=-1477/188, 4-5=-1047/324, 5-6=-1684/683, 6-7=-1684/683, 7-8=-1007/363, 8-9=-1509/147, 9-10=-1956/13, 2-22=-2225/0, 10-11=-4500/0
BOT CHORD 21-22=-987/1686, 19-21=-1070/1712, 17-19=-74/3944, 13-17=0/1426, 12-13=-3878/260, 11-12=-3465/268, 18-20=-2397/136, 16-18=-2638/0, 15-16=-2638/0, 14-15=-618/783
WEBS 20-21=0/377, 3-20=-101/1080, 12-14=0/743, 9-14=-188/928, 4-23=-1100/0, 23-24=-1091/0, 24-25=-1256/30, 8-25=-1265/27, 2-20=0/1460, 10-14=0/3417, 6-24=-532/310, 5-24=-467/999, 7-24=-453/1140, 18-19=-887/0, 16-17=-676/0, 13-15=-1543/0, 19-20=0/3120, 17-18=-516/615, 15-17=-119/2862, 13-14=0/5210, 20-22=-1509/539, 11-14=-291/3777

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-8 to 1-7-8, Zone1 1-7-8 to 8-6-0, Zone2 8-6-0 to 12-8-15, Zone1 12-8-15 to 20-11-0, Zone3 20-11-0 to 25-3-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 2x4 MT20 unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.
4011201	T01G	ATTIC	1	2	T34113852
					Job Reference (optional)

NOTES-

9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-23, 23-24, 24-25, 8-25; Wall dead load (5.0psf) on member(s).3-20, 9-14
11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-20, 16-18, 15-16, 14-15
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Attic room checked for L/360 deflection.

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.	T34113853
4011201	T02	Attic Girder	2	3	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:20 2024 Page 1
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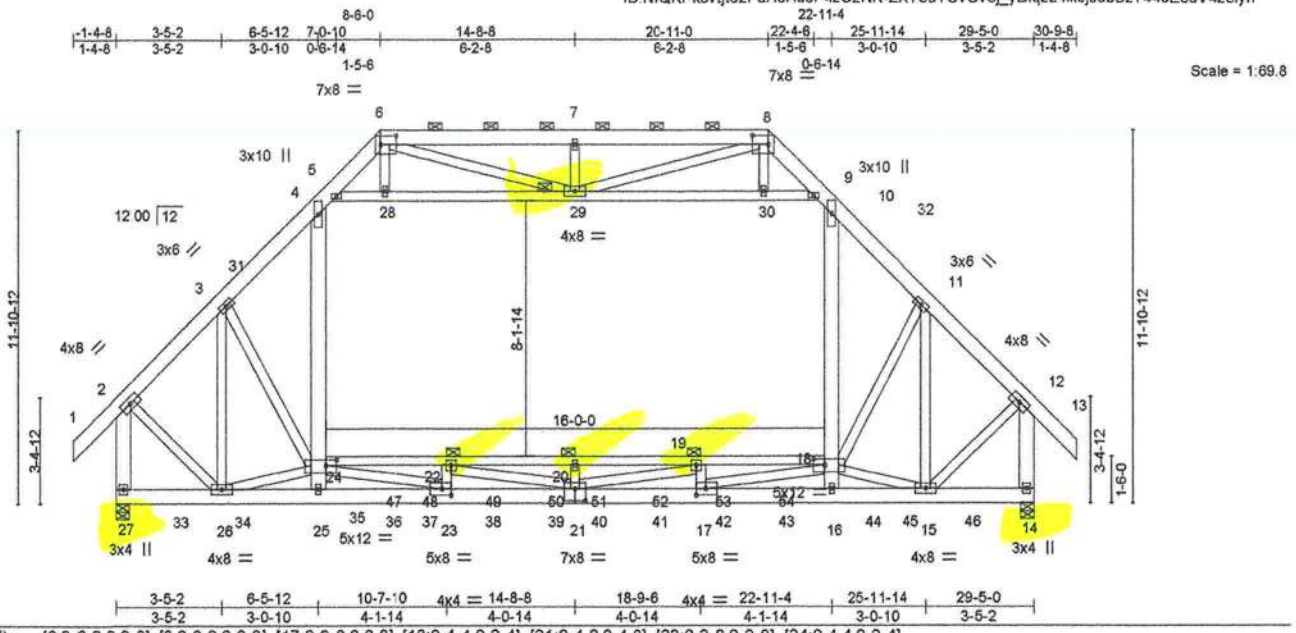

Plate Offsets (X,Y)-- [6:0-6-0,0-3-8], [8:0-6-0,0-3-8], [17:0-3-8,0-2-8], [18:0-4-4,0-2-4], [21:0-4-0,0-4-8], [23:0-3-8,0-2-8], [24:0-4-4,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.00	TC	0.24	Vert(LL)	-0.16	20	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.29	Vert(CT)	-0.24	20	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.01	14	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS		Attic	-0.13	18-24	1510	360	Weight: 1117 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP M 26 *Except*
18-24: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
4-25,10-16,2-27,12-14: 2x6 SP No.2
5-9,23-24,21-22,19-21,17-18: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 29, 20, 22, 19

REACTIONS. (size) 27=0-5-0, 14=0-5-0
Max Horz 27=-357(LC 28)
Max Uplift 27=-912(LC 8), 14=-943(LC 9)
Max Grav 27=5838(LC 1), 14=5933(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3989/626, 3-4=-5500/825, 4-5=-3101/533, 5-6=-652/239, 6-7=-948/457, 7-8=-948/457, 8-9=-650/238, 9-10=-3102/532, 10-11=-5474/825, 11-12=-3968/619, 2-27=-5510/866, 12-14=-5631/898
BOT CHORD 26-27=-331/343, 25-26=-1075/709, 23-25=-1525/772, 21-23=-943/5685, 17-21=-705/5629, 16-17=-1631/490, 15-16=-1079/392, 22-24=-1901/376, 20-22=-4499/481, 19-20=-4499/481, 18-19=-1845/456
WEBS 3-26=-3288/446, 3-24=-337/2049, 24-25=-300/1837, 4-24=-537/3348, 16-18=-297/1840, 10-18=-536/3331, 11-18=-367/2118, 11-15=-3302/474, 5-28=-3574/610, 28-29=-3563/611, 29-30=-3570/614, 9-30=-3581/613, 2-26=-450/3579, 12-15=-448/3573, 7-29=-333/207, 6-29=-328/650, 20-21=-522/0, 8-29=-329/654, 22-23=-1298/72, 17-19=-1314/77, 23-24=-914/7288, 21-22=-566/2906, 19-21=-587/2965, 17-18=-927/7340, 24-26=-688/3739, 15-18=-788/3807

NOTES-
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 2x4 MT20 unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2

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Date:

June 10,2024

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314.434.1200 / MiTek-US.com

NOTES-

9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-28, 28-29, 29-30, 9-30; Wall dead load (5.0psf) on member(s).4-24, 10-18
11) Bottom chord live load (50.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 22-24, 20-22, 19-20, 18-19
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 27=912, 14=943.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 560 lb down and 128 lb up at 2-0-4, 560 lb down and 128 lb up at 4-0-4, 560 lb down and 128 lb up at 6-0-4, 560 lb down and 128 lb up at 8-0-4, 560 lb down and 128 lb up at 10-0-4, 560 lb down and 128 lb up at 12-0-4, 560 lb down and 128 lb up at 14-0-4, 560 lb down and 128 lb up at 15-4-12, 560 lb down and 128 lb up at 17-4-12, 560 lb down and 128 lb up at 19-4-12, 560 lb down and 128 lb up at 21-4-12, 560 lb down and 128 lb up at 23-4-12, and 560 lb down and 128 lb up at 25-4-12, and 560 lb down and 128 lb up at 27-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 1-2=-54, 4-31=-54, 4-5=-64, 5-6=-54, 6-8=-54, 8-9=-54, 9-10=-64, 10-32=-54, 14-27=-20, 18-24=-40, 5-9=-10
   Drag: 4-24=-10, 10-18=-10
   Concentrated Loads (lb)
   Vert: 33=-560(B) 34=-560(B) 35=-560(B) 36=-560(B) 37=-560(B) 38=-560(B) 39=-560(B) 40=-560(B) 41=-560(B) 42=-560(B) 43=-560(B) 44=-560(B) 45=-560(B) 46=-560(B)
   Trapezoidal Loads (plf)
   Vert: 2=-127-to-31=-79, 32=-79-to-12=-118, 12=-118-to-13=-129

Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113854
4011201	T03	Roof Special	4	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:20 2024 Page 1
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1-0-0	5-4-0	9-11-13	14-9-0	19-6-3	24-2-0	29-6-0	30-6-0
1-0-0	5-4-0	4-7-13	4-9-3	4-9-3	4-7-13	5-4-0	1-0-0

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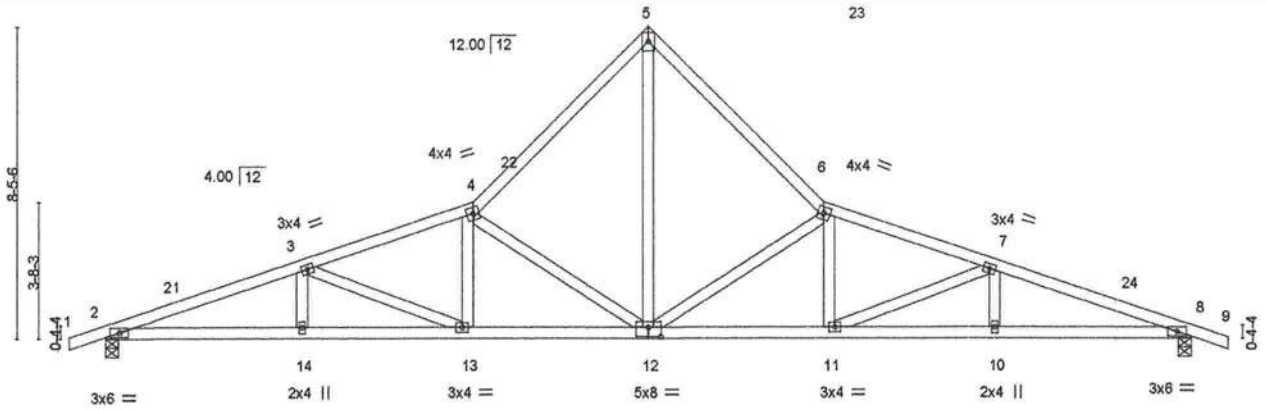

5-4-0	9-11-13	14-9-0	19-6-3	24-2-0	29-6-0
5-4-0	4-7-13	4-9-3	4-9-3	4-7-13	5-4-0

Plate Offsets (X,Y)-- [12:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	-0.21	12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.40	11-12	>888	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.11	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 155 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-10-12 oc bracing.

REACTIONS. (size) 2=0-4-0, 8=0-4-0
Max Horz 2=140(LC 12)
Max Uplift 2=-302(LC 12), 8=-302(LC 13)
Max Grav 2=1145(LC 1), 8=1145(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2808/680, 3-4=-2314/544, 4-5=-1500/415, 5-6=-1500/415, 6-7=-2314/544, 7-8=-2808/681
BOT CHORD 2-14=-730/2629, 13-14=-730/2629, 12-13=-539/2144, 11-12=-414/2144, 10-11=-592/2629, 8-10=-592/2629
WEBS 5-12=-420/1720, 6-12=-1396/464, 6-11=-62/327, 7-11=-525/239, 4-12=-1396/464, 4-13=-62/327, 3-13=-525/240

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 30-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=302, 8=302.

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Philip J. O'Regan PE No.58126
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Date:

June 10,2024

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.
4011201	T03G	GABLE	4	1	T34113855
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:21 2024 Page 1
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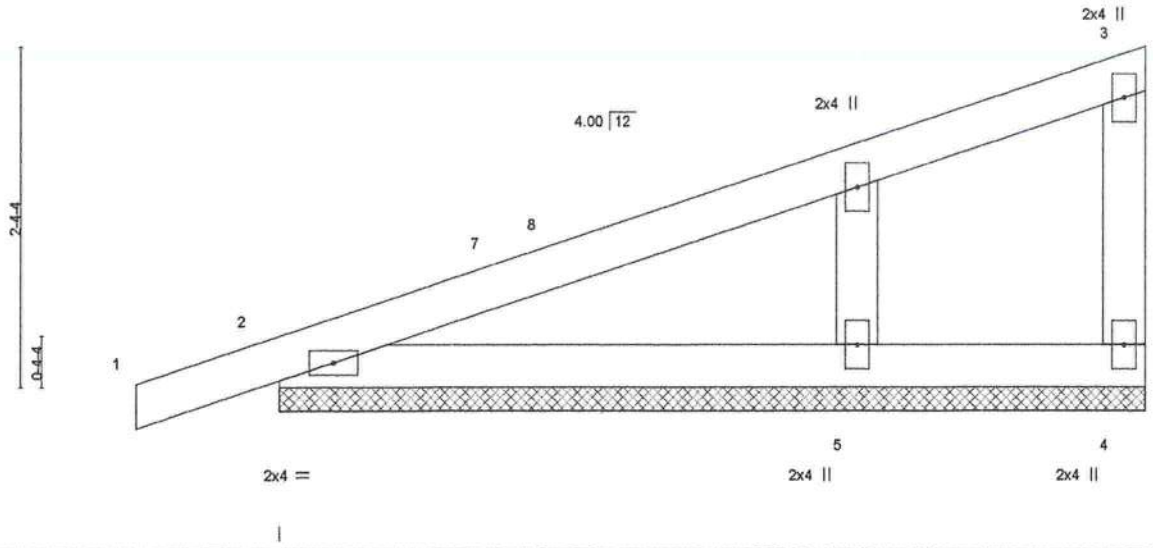

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	-0.01	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	0.02	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 24 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

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) 2=6-0-0, 4=6-0-0, 5=6-0-0
Max Horz 2=92(LC 8)
Max Uplift 2=-112(LC 8), 4=-99(LC 12)
Max Grav 2=249(LC 1), 4=156(LC 1), 5=165(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 5-10-4 zone;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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=112.

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Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113856
4011201	T04	Piggyback Base	12	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:22 2024 Page 1
ID:NfQKPk0vtjt52FdA3Ad5P4zC2NR-Vwgu2ED9wWJQDGN7xO5Yn9gu8h6uRRzNGXbkayz8iyl

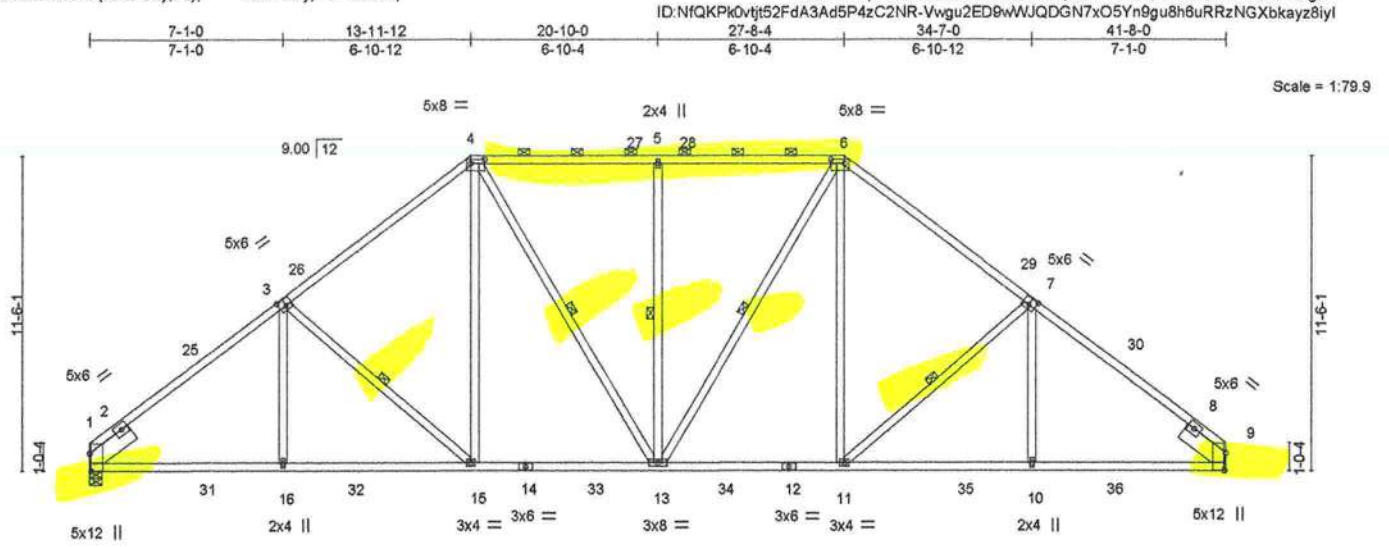

Plate Offsets (X,Y)-- [1:0-7-14,Edge], [3:0-3-0,0-3-0], [4:0-6-0,0-2-0], [6:0-6-0,0-2-0], [7:0-3-0,0-3-0], [9:0-7-14,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.93	Vert(LL)	-0.20	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.35	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.16	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 277 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 1-3,7-9: 2x4 SP 2850F 2.0E or 2x4 SP M 31
BOT CHORD	2x4 SP No.1 *Except* 12-14: 2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 4-13,6-13: 2x4 SP No.2
SLIDER	Left 2x8 SP 2400F 2.0E 1-11-8, Right 2x8 SP 2400F 2.0E 1-11-8

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-1-0 max.): 4-6.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 3-15, 4-13, 5-13, 6-13, 7-11

REACTIONS. (size) 1=0-5-8, 9=Mechanical
Max Horz 1=-260(LC 8)
Max Uplift 1=-392(LC 12), 9=-392(LC 13)
Max Grav 1=1793(LC 2), 9=1793(LC 2)

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

TOP CHORD	1-3=-2355/531, 3-4=-1990/528, 4-5=-1705/482, 5-6=-1705/482, 6-7=-1990/528, 7-9=-2355/531
BOT CHORD	1-16=-481/1861, 15-16=-481/1860, 13-15=-308/1526, 11-13=-189/1526, 10-11=-306/1792, 9-10=-306/1793
WEBS	3-16=0/295, 3-15=-494/282, 4-15=-141/639, 4-13=-232/435, 5-13=-415/242, 6-13=-232/435, 6-11=-141/639, 7-11=-494/282, 7-10=0/295

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 4-2-0, Zone1 4-2-0 to 13-11-12, Zone2 13-11-12 to 19-10-7 , Zone1 19-10-7 to 27-8-4, Zone2 27-8-4 to 33-6-15, Zone1 33-6-15 to 41-8-0 zone; 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=392, 9=392.
9) 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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Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

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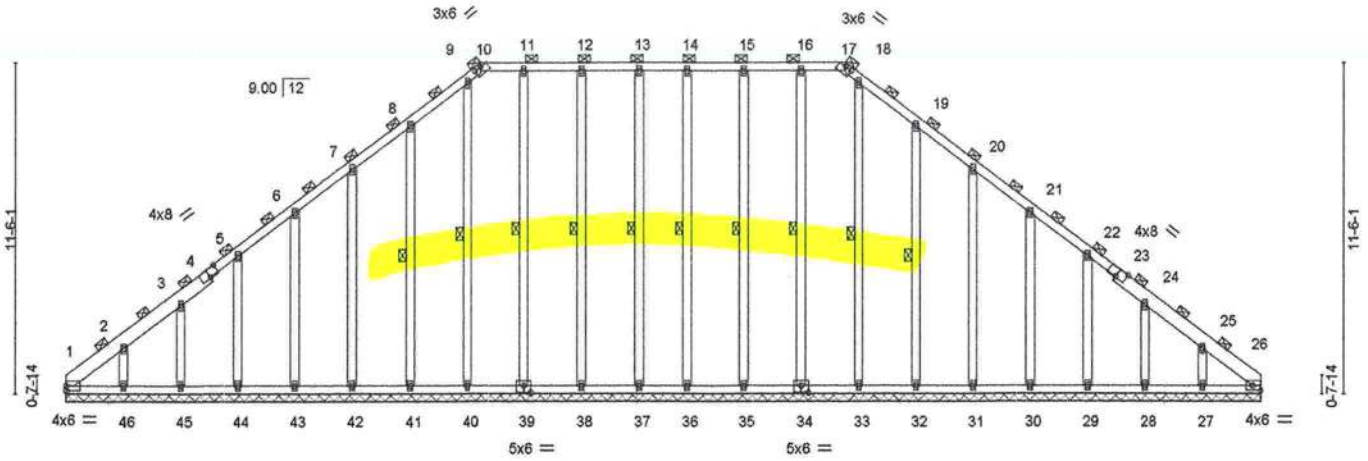
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.
4011201	T04G	GABLE	1	1	T34113857
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:23 2024 Page 1
ID:NfQKPk0vtjt52FdA3Ad5P4zC2NR-z6EGFaEnhqRHrQxKV5cnKNDGu5gIAxPWUBLH6Oz8iyk

14-5-9 / 14-5-9 | 27-2-7 / 12-8-14 | 41-8-0 / 14-5-9

Scale = 1:75.9



41-8-0 / 41-8-0

Plate Offsets (X,Y)-- [4:0-4-0,Edge], [10:0-3-0,0-0-1], [17:0-3-0,0-0-1], [23:0-4-0,Edge], [26:Edge,0-2-0], [34:0-3-0,0-3-0], [39:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.02	26	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 369 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 1-4,23-26: 2x6 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 19-32, 18-33, 16-34, 15-35, 14-36, 8-41, 9-40, 11-39, 12-38, 13-37

REACTIONS. All bearings 41-8-0.
(lb) - Max Horz 1=-277(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 28, 29, 30, 31, 34, 35, 36, 45, 44, 43, 42, 40, 39, 38, 37, 26 except 1=-133(LC 10), 27=-134(LC 13), 32=-111(LC 13), 46=-142(LC 12), 41=-106(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 26

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-354/259, 25-26=-274/139

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DCL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28, 29, 30, 31, 34, 35, 36, 45, 44, 43, 42, 40, 39, 38, 37, 26 except (jt=lb) 1=133, 27=134, 32=111, 46=142, 41=106.
12) 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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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

MiTek®
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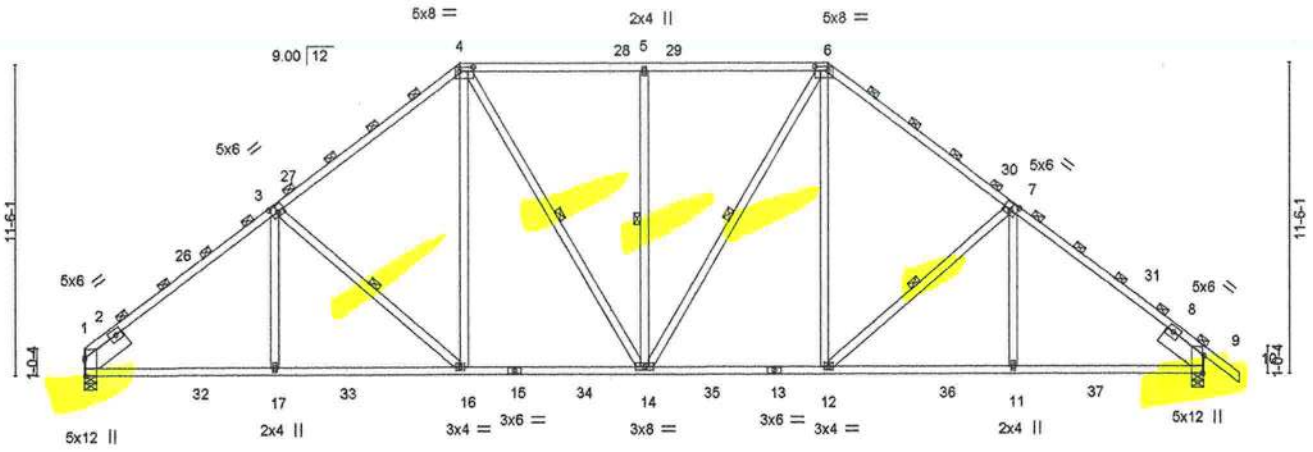
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.	T34113858
4011201	T05	Piggyback Base	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:24 2024 Page 1
ID:NfQKPk0vtjt52FdA3Ad5P4zC2NR-RloeTwFPS8Z8TZWW3p70saIFZVo8vLUgjr4qerz8iyj

7-1-0	13-11-12	20-10-0	27-8-4	34-7-0	41-8-0	43-0-0
7-1-0	6-10-12	6-10-4	6-10-4	6-10-12	7-1-0	1-4-0

Scale = 1:80.9



7-1-0	13-11-12	20-10-0	27-8-4	34-7-0	41-8-0
7-1-0	6-10-12	6-10-4	6-10-4	6-10-12	7-1-0

Plate Offsets (X,Y)-- [1:0-7-14,Edge], [3:0-3-0,0-3-0], [4:0-6-0,0-2-0], [6:0-6-0,0-2-0], [7:0-3-0,0-3-0], [9:0-7-14,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.87	Vert(LL)	-0.20	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.35	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.16	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 279 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.1 *Except* 4-6: 2x4 SP No.2, 1-3,7-10: 2x4 SP 2850F 2.0E or 2x4 SP M 31
BOT CHORD	2x4 SP No.1 *Except* 13-15: 2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 4-14,6-14: 2x4 SP No.2
SLIDER	Left 2x8 SP 2400F 2.0E 1-11-8, Right 2x8 SP 2400F 2.0E 1-11-8

BRACING-

TOP CHORD	2-0-0 oc purlins (2-2-0 max.), except sheathed or 4-1-2 oc purlins: 4-6.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 3-16, 4-14, 5-14, 6-14, 7-12

REACTIONS. (size) 1=0-5-8, 9=0-5-8
Max Horz 1=-276(LC 8)
Max Uplift 1=-392(LC 12), 9=-426(LC 13)
Max Grav 1=1792(LC 2), 9=1853(LC 2)

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

TOP CHORD	1-3=-2353/531, 3-4=-1988/528, 4-5=-1703/482, 5-6=-1703/482, 6-7=-1986/527, 7-9=-2347/528
BOT CHORD	1-17=-464/1872, 16-17=-464/1870, 14-16=-298/1525, 12-14=-179/1524, 11-12=-270/1783, 9-11=-269/1784
WEBS	3-17=0/295, 3-16=-492/282, 4-16=-141/638, 4-14=-231/433, 5-14=-415/242, 6-14=-232/434, 6-12=-140/634, 7-12=-485/279, 7-11=0/294

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 4-2-0, Zone1 4-2-0 to 13-11-12, Zone2 13-11-12 to 19-10-7 , Zone1 19-10-7 to 27-8-4, Zone2 27-8-4 to 33-6-15, Zone1 33-6-15 to 43-0-0 zone; 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=392, 9=426.
8) 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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Philip J. O'Regan PE No.58126
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Date:

June 10,2024

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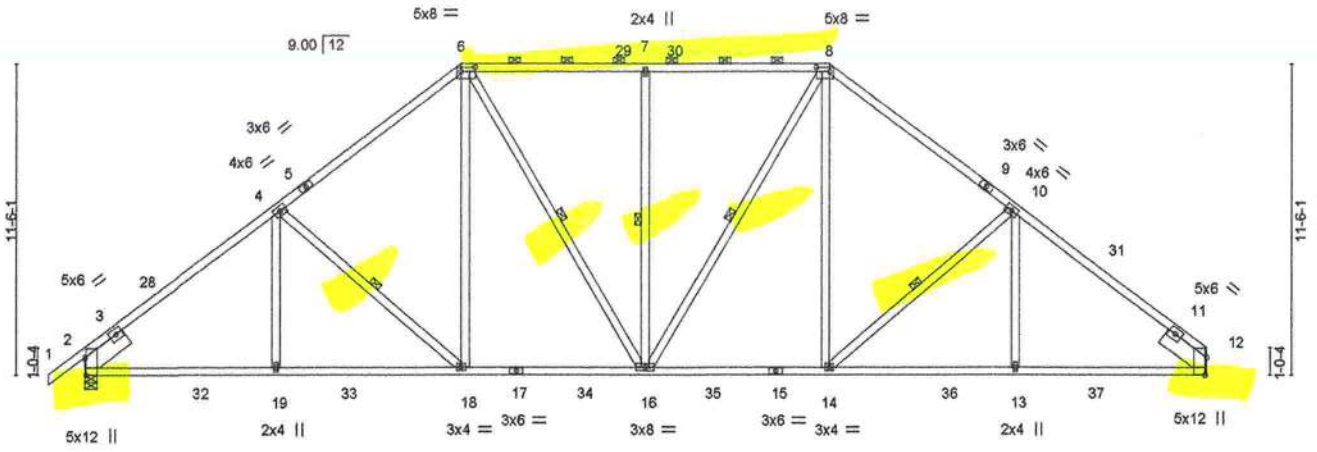
Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.
4011201	T06	Piggyback Base	7	1	T34113859
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:25 2024 Page 1
ID:NfQKPk0vtjt52FdA3Ad5P4zC2NR-vVM1gGG1DRi?4j5icWeFPolPtv8EeogpyVqOAHz8iyi

1-4-0	7-1-0	13-11-12	20-10-0	27-8-4	34-7-0	41-8-0
1-4-0	7-1-0	6-10-12	6-10-4	6-10-4	6-10-12	7-1-0

Scale = 1:80.9



7-1-0	13-11-12	20-10-0	27-8-4	34-7-0	41-8-0
7-1-0	6-10-12	6-10-4	6-10-4	6-10-12	7-1-0

Plate Offsets (X,Y)-- [2:0-7-14,Edge], [6:0-6-0,0-2-0], [8:0-6-0,0-2-0], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0], [12:0-7-14,Edge], [12:0-0-0,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.96	Vert(LL)	-0.21	18-19	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.35	18-19	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.16	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 280 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 1-5,9-12: 2x4 SP 2850F 2.0E or 2x4 SP M 31
BOT CHORD	2x4 SP No.1 *Except* 15-17: 2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 6-16,8-16: 2x4 SP No.2
SLIDER	Left 2x8 SP 2400F 2.0E 1-11-8, Right 2x8 SP 2400F 2.0E 1-11-8

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-1-2 max.): 6-8.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 4-18, 6-16, 7-16, 8-16, 10-14

REACTIONS. (size) 2=0-5-8, 12=Mechanical
Max Horz 2=276(LC 11)
Max Uplift 2=-426(LC 12), 12=-392(LC 13)
Max Grav 2=1853(LC 2), 12=1792(LC 2)

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

TOP CHORD	2-4=-2349/529, 4-6=-1988/527, 6-7=-1703/482, 7-8=-1703/482, 8-10=-1990/528, 10-12=-2355/532
BOT CHORD	2-19=-481/1856, 18-19=-481/1856, 16-18=-308/1524, 14-16=-189/1525, 13-14=-308/1793, 12-13=-308/1793
WEBS	4-19=0/294, 4-18=-489/282, 6-18=-141/636, 6-16=-232/434, 7-16=-415/242, 8-16=-232/433, 8-14=-142/640, 10-14=-498/285, 10-13=0/295

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 2-10-0, Zone1 2-10-0 to 13-11-12, Zone2 13-11-12 to 19-10-7, Zone1 19-10-7 to 27-8-4, Zone2 27-8-4 to 33-6-15, Zone1 33-6-15 to 41-8-0 zone; 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=426, 12=392.
9) 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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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

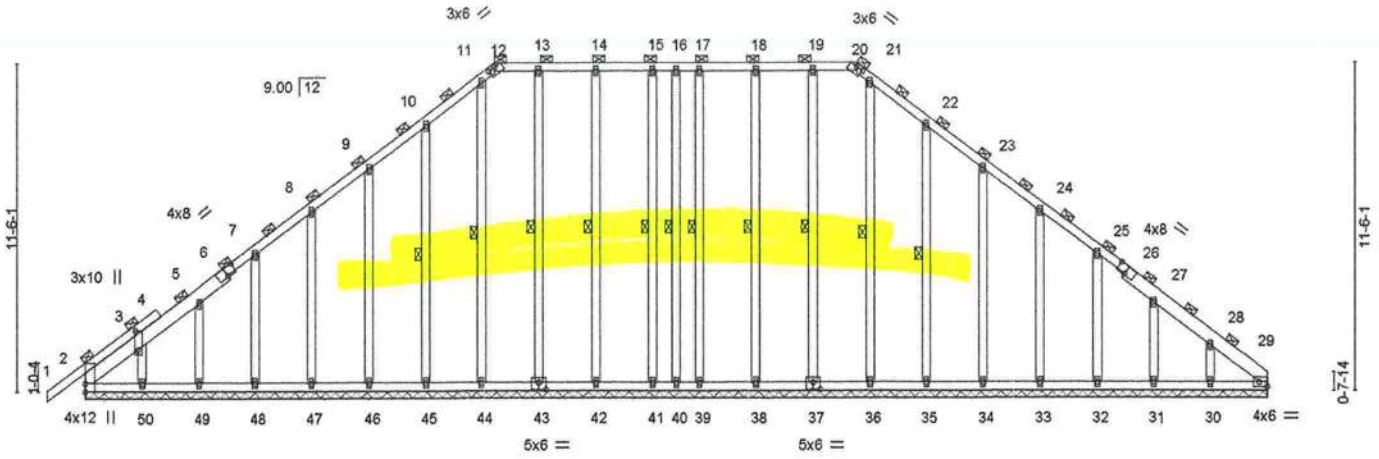
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113860
4011201	T06G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:26 2024 Page 1
ID:NfQKPk0vtjt52FdA3Ad5P4zC2NR-NhvPubGf_lqsitgvAD9Ux?rn1liSNl9zB9ZxjjzBiyh

1-4-0 14-5-9 27-2-7 41-8-0
1-4-0 14-5-9 12-8-14 14-5-9

Scale = 1:76.7



41-8-0
41-8-0

Plate Offsets (X,Y)-- [3:0-8-1,0-1-4], [6:0-4-0,Edge], [12:0-3-0,0-0-1], [20:0-3-0,0-0-1], [26:0-4-0,Edge], [29:Edge,0-2-0], [37:0-3-0,0-3-0], [43:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.02	29	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 393 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 2-6,26-29: 2x6 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 16-40, 22-35, 21-36, 19-37, 18-38, 17-39, 10-45, 11-44, 13-43, 14-42, 15-41

REACTIONS. All bearings 41-8-0.
(lb) - Max Horz 2=284(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 40, 31, 32, 33, 34, 37, 38, 39, 49, 48, 47, 46, 44, 43, 42, 41, 29 except 30=-134(LC 13), 35=-110(LC 13), 50=-108(LC 12), 45=-106(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 40, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 50, 49, 48, 47, 46, 45, 44, 43, 42, 41, 29

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-299/222, 28-29=-274/136

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 40, 31, 32, 33, 34, 37, 38, 39, 49, 48, 47, 46, 44, 43, 42, 41, 29 except (jt=lb) 30=134, 35=110, 50=108, 45=106.
12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
13) 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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Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

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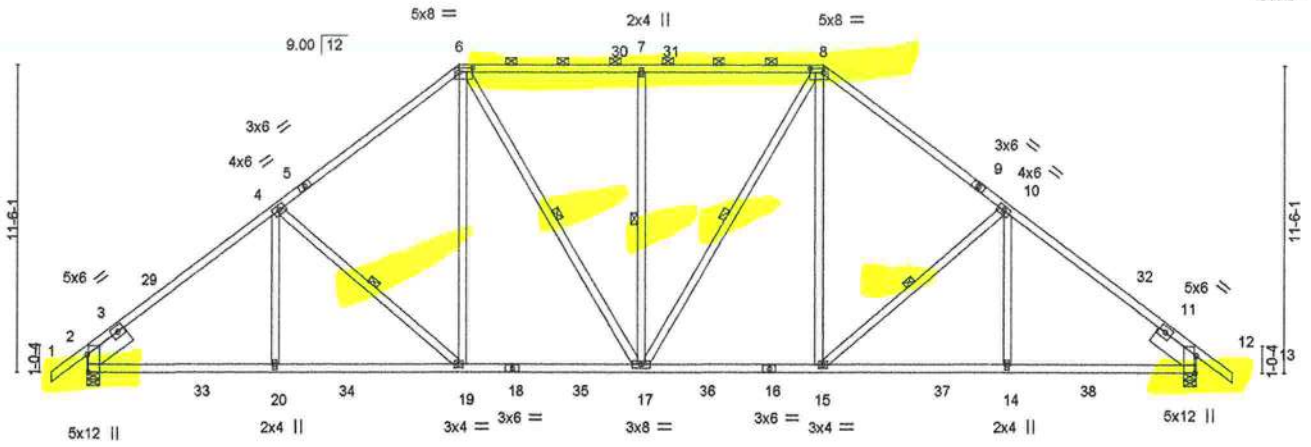
Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113861
4011201	T07	PIGGYBACK BASE	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:27 2024 Page 1
ID:NfQKPk0vtjt52FdA3Ad5P4zC2NR-stTn5xHll3yjK1F5kxgjUDNlOiqi6iD6PpJVFAz8iyg

1-4-0	7-1-0	13-11-12	20-10-0	27-8-4	34-7-0	41-8-0	43-0-0
1-4-0	7-1-0	6-10-12	6-10-4	6-10-4	6-10-12	7-1-0	1-4-0

Scale = 1:81.8



7-1-0	13-11-12	20-10-0	27-8-4	34-7-0	41-8-0
7-1-0	6-10-12	6-10-4	6-10-4	6-10-12	7-1-0

Plate Offsets (X,Y)-- [2:0-7-14,Edge], [6:0-6-0,0-2-0], [8:0-6-0,0-2-0], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0], [12:0-7-14,Edge], [12:0-0-0,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.96	Vert(LL)	-0.21	19-20	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.35	19-20	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.16	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 282 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
1-5,9-13: 2x4 SP 2650F 2.0E or 2x4 SP M 31
BOT CHORD 2x4 SP No.1 *Except*
16-18: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
6-17,8-17: 2x4 SP No.2
SLIDER Left 2x8 SP 2400F 2.0E 1-11-8, Right 2x8 SP 2400F 2.0E 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (4-1-3 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 4-19, 6-17, 7-17, 8-17, 10-15

REACTIONS. (size) 2=0-5-8, 12=0-5-8
Max Horz 2=285(LC 11)
Max Uplift 2=-426(LC 12), 12=-426(LC 13)
Max Grav 2=1852(LC 2), 12=1852(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2347/529, 4-6=-1986/527, 6-7=-1701/482, 7-8=-1701/482, 8-10=-1986/527, 10-12=-2348/530
BOT CHORD 2-20=-464/1867, 19-20=-464/1867, 17-19=-298/1523, 15-17=-179/1523, 14-15=-272/1786, 12-14=-272/1786
WEBS 4-20=0/294, 4-19=-489/282, 6-19=-141/636, 6-17=-232/433, 7-17=-415/242, 8-17=-232/433, 8-15=-141/637, 10-15=-490/282, 10-14=0/294

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 2-10-0, Zone1 2-10-0 to 13-11-12, Zone2 13-11-12 to 19-10-7, Zone1 19-10-7 to 27-8-4, Zone2 27-8-4 to 33-6-15, Zone1 33-6-15 to 43-0-0 zone; 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=426, 12=426.
8) 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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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113862
4011201	T08	Piggyback Base	4	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:27 2024 Page 1
ID:NfQKPk0vtjt52FdA3Ad5P4zC2NR-stTn5xHII3yjK1F5kxgjUDNp?ixv6c68PpJVFAz8iyg

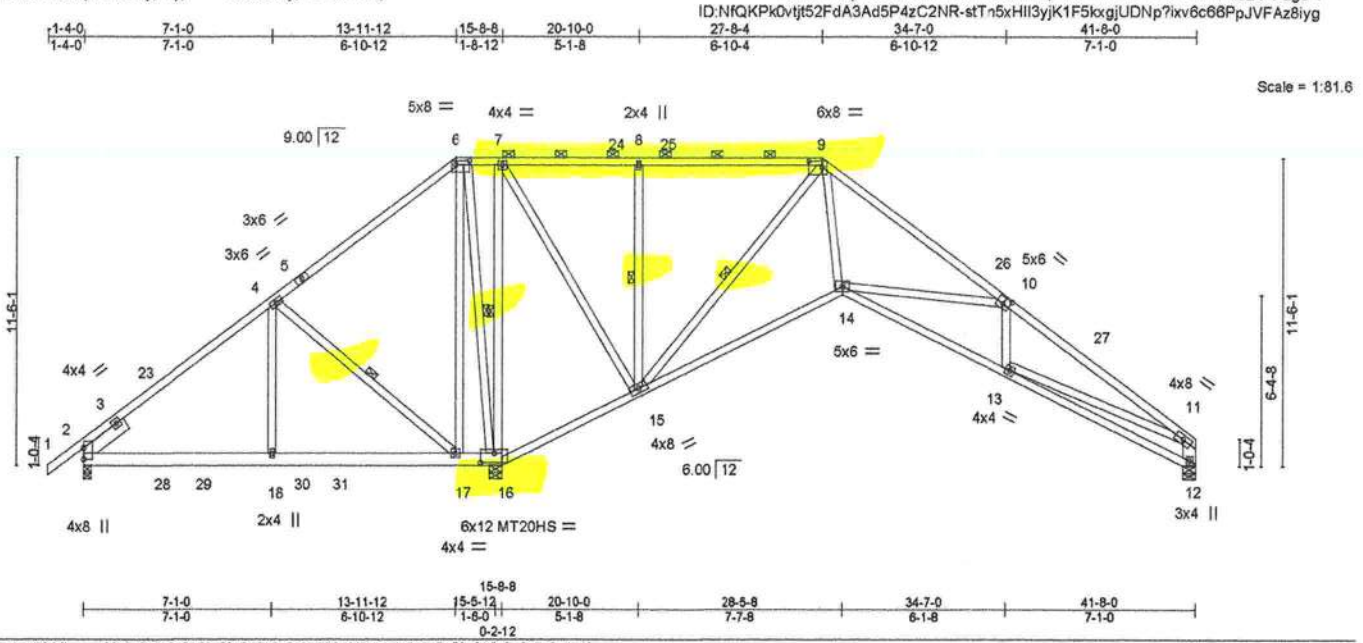

Plate Offsets (X,Y)-- [6:0-6-0,0-2-0], [9:0-6-0,0-2-12], [10:0-3-0,0-3-0], [16:0-6-0,0-4-4]

LOADING (psf)		SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.25	TC 0.66	Vert(LL) -0.13 14-15 >999 240	MT20 244/190
TCDL	7.0	Lumber DOL 1.25	BC 0.48	Vert(CT) -0.28 14-15 >999 180	MT20HS 187/143
BCLL	0.0 *	Rep Stress Incr YES	WB 0.74	Horz(CT) 0.14 12 n/a n/a	
BCDL	10.0	Code FBC2023/TPI2014	Matrix-MS		Weight: 305 lb FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 2-16: 2x6 SP No.2
WEBS	2x4 SP No.3 *Except* 11-12: 2x6 SP No.2
SLIDER	Left 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-4-4 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 6-9.
BOT CHORD	Rigid ceiling directly applied or 5-4-6 oc bracing.
WEBS	1 Row at midpt 4-17, 6-16, 7-16, 8-15, 9-15

REACTIONS. (size) 2=0-3-8, 16=0-5-8, 12=0-5-8
Max Horz 2=299(LC 11)
Max Uplift 2=-305(LC 26), 16=-445(LC 9), 12=-222(LC 13)
Max Grav 2=257(LC 25), 16=2709(LC 2), 12=684(LC 20)

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

TOP CHORD	2-4=-299/641, 4-6=-27/986, 6-7=0/896, 7-8=0/462, 8-9=0/462, 9-10=-553/135, 10-11=-1418/457, 11-12=-675/290
BOT CHORD	2-18=-481/243, 17-18=-481/243, 16-17=-801/344, 15-16=-1085/412, 14-15=-188/398, 13-14=-316/1195, 12-13=-121/298
WEBS	4-18=-162/462, 4-17=-660/339, 6-17=-260/442, 6-16=-1160/336, 7-16=-959/254, 7-15=-153/940, 8-15=-382/220, 9-15=-1034/122, 9-14=-10/816, 10-14=-868/485, 11-13=-185/881

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 2-10-0, Zone1 2-10-0 to 13-11-12, Zone2 13-11-12 to 19-10-7, Zone1 19-10-7 to 27-8-4, Zone2 27-8-4 to 33-6-15, Zone1 33-6-15 to 41-5-4 zone; end vertical right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=305, 16=445, 12=222.
10) 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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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

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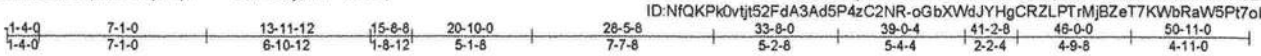
Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113863
4011201	T09	Piggyback Base	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:29 2024 Page 1
ID:NfQKPk0vtjt52FdA3Ad5P4zC2NR-oGbXWdJYHgCRZLPTrMjBZeT7KWbRaW5Pt7obJ2z8iye



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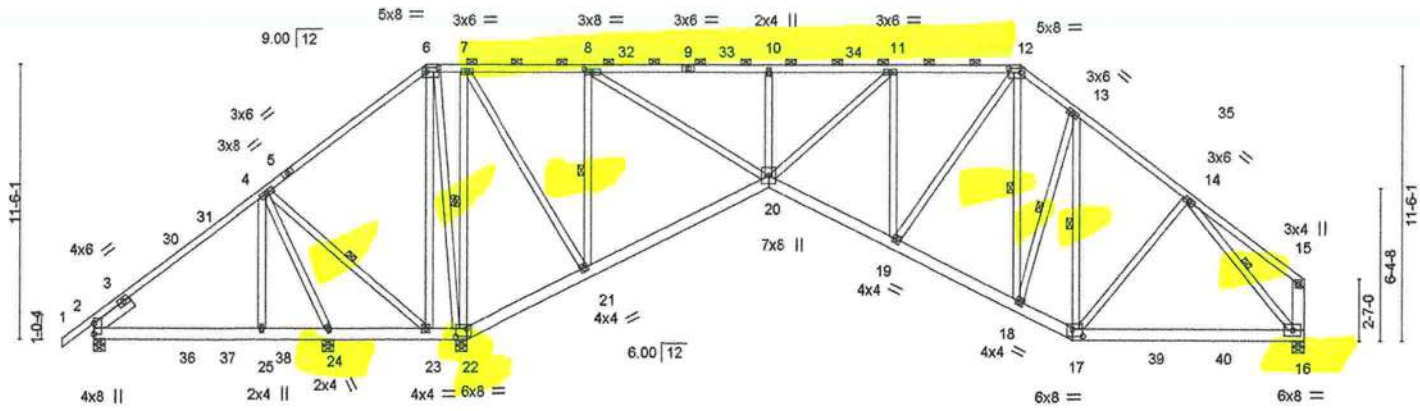

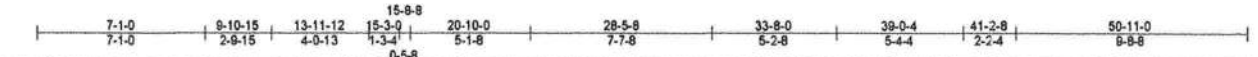

Plate Offsets (X,Y)-- [6:0-6-0,0-2-0], [8:0-3-8,0-1-8], [12:0-6-0,0-2-0], [17:0-5-4,0-3-8], [22:0-5-8,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.80	Vert(LL)	-0.12	16-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.21	16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.12	16	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 443 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
15-16: 2x6 SP No.2
SLIDER Left 2x6 SP No.2 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-12 oc purlins, except end verticals, and 2-0-0 oc purlins (5-2-6 max.): 6-12.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-23, 6-22, 7-22, 8-21, 12-18, 13-18, 13-17, 14-16

REACTIONS. All bearings 0-5-8.
(lb) - Max Horz 2=315(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 24 except 2=-383(LC 26), 22=-842(LC 9), 16=-393(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 24 except 22=3000(LC 2), 16=1342(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-375/755, 4-6=-326/1136, 6-7=-246/1014, 7-8=-69/421, 8-10=-1013/321, 10-11=-1013/321, 11-12=-1034/443, 12-13=-1078/506, 13-14=-1161/433, 14-15=-286/127, 15-16=-285/143
BOT CHORD 2-25=-572/362, 24-25=-572/362, 23-24=-537/317, 22-23=-866/397, 21-22=-1191/479, 20-21=-509/304, 19-20=-315/1194, 18-19=-195/956, 17-18=-207/924, 16-17=-272/820
WEBS 4-25=-287/402, 4-23=-467/255, 6-22=-1068/338, 7-22=-1218/372, 7-21=-346/1258, 8-21=-1187/441, 8-20=-427/1617, 10-20=-359/202, 11-19=-300/231, 12-19=-181/402, 12-18=-212/339, 13-18=-258/202, 14-16=-1156/381

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 3-9-2, Zone1 3-9-2 to 13-11-12, Zone2 13-11-12 to 21-2-3, Zone1 21-2-3 to 39-0-4, Zone2 39-0-4 to 46-1-2, Zone1 46-1-2 to 50-8-4 zone; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24 except (jt=lb) 2=383, 22=842, 16=393.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date: June 10,2024

Continued on page 2

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LOAD CASE(S) Standard

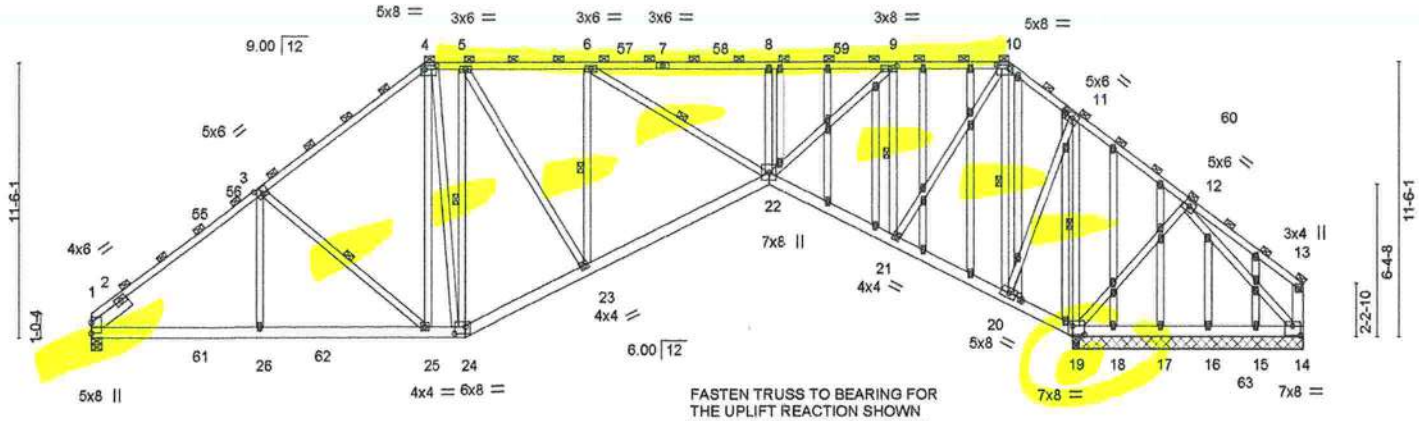
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-6=-54, 6-12=-54, 12-15=-79, 22-26=-20, 20-22=-20, 17-20=-20, 16-17=-20

Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.	T34113864
4011201	T09G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:31 2024 Page 1
ID:NfQKPk0vtjt52FdA3Ad5P4zC2NR-kejlxJKopHS9oeZsznlfe3YV4JHw2NXiKRHiOxz8iyc

7-1-0	13-11-12	15-8-8	20-10-0	28-5-8	33-8-0	38-6-7	41-2-8	46-0-0	50-11-0
7-1-0	6-10-12	1-8-12	5-1-8	7-7-8	5-2-8	4-10-7	2-8-1	4-9-8	4-11-0

Scale = 1:91.4



7-1-0	13-11-12	15-8-8	20-10-0	28-5-8	33-8-0	38-6-7	41-2-8	50-11-0
7-1-0	6-10-12	1-8-12	5-1-8	7-7-8	5-2-8	4-10-7	2-8-1	9-8-8

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [4:0-6-0,0-2-0], [9:0-3-8,0-1-8], [10:0-6-0,0-2-0], [14:0-4-0,0-4-12], [19:0-6-0,0-4-8], [24:0-5-8,0-3-8], [34:0-2-0,0-0-4], [37:0-1-6,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	-0.17	22-23	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.30	22-23	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.19	19	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 532 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
13-14: 2x6 SP No.2
OTHERS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8

BRACING-
TOP CHORD 2-0-0 oc purlins (3-5-2 max.), except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-8-2 oc bracing.
WEBS 1 Row at midpt 3-25, 5-24, 6-23, 6-22, 9-21, 10-20, 11-19

REACTIONS. All bearings 9-8-8 except (jt=length) 1=0-5-8.
(lb) - Max Horz 1=294(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 15 except 1=-367(LC 12), 19=-840(LC 9), 14=-1234(LC 27), 18=-108(LC 1)
Max Grav All reactions 250 lb or less at joint(s) 15, 16, 17, 18 except 1=1393(LC 2), 19=3575(LC 2), 19=3376(LC 1), 14=459(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1773/500, 3-4=-1377/486, 4-5=-1036/466, 5-6=-1306/497, 6-8=-1312/416, 8-9=-1312/416, 10-11=-319/943, 11-12=-531/1715
BOT CHORD 1-26=-448/1456, 25-26=-448/1455, 24-25=-333/1031, 23-24=-381/1203, 22-23=-493/1513, 20-21=-868/334, 19-20=-1582/439, 18-19=-1042/327, 17-18=-1042/327, 16-17=-1042/327, 15-16=-1042/327, 14-15=-1042/327
WEBS 3-26=0/319, 3-25=-565/289, 4-25=-126/551, 5-24=-595/235, 5-23=-178/553, 6-23=-435/243, 8-22=-362/204, 9-22=-566/1730, 9-21=-1383/531, 10-21=-455/1426, 10-20=-1881/624, 11-20=-518/1726, 11-19=-2223/555, 12-19=-526/262, 12-14=-495/1534

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 5-1-2, Zone1 5-1-2 to 13-11-12, Zone2 13-11-12 to 21-2-3, Zone1 21-2-3 to 38-6-7, Zone2 38-6-7 to 45-8-14, Zone1 45-8-14 to 50-8-4 zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

Continued on page 2

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date: June 10,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113864
4011201	T09G	GABLE	1	1	Job Reference (optional)

NOTES-

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15 except (jt=lb) 1=367, 19=840, 14=1234, 18=108.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113865
4011201	T10	Piggyback Base	11	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:32 2024 Page 1
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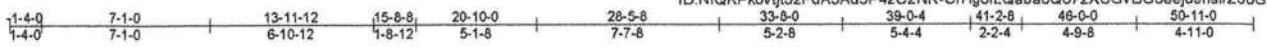

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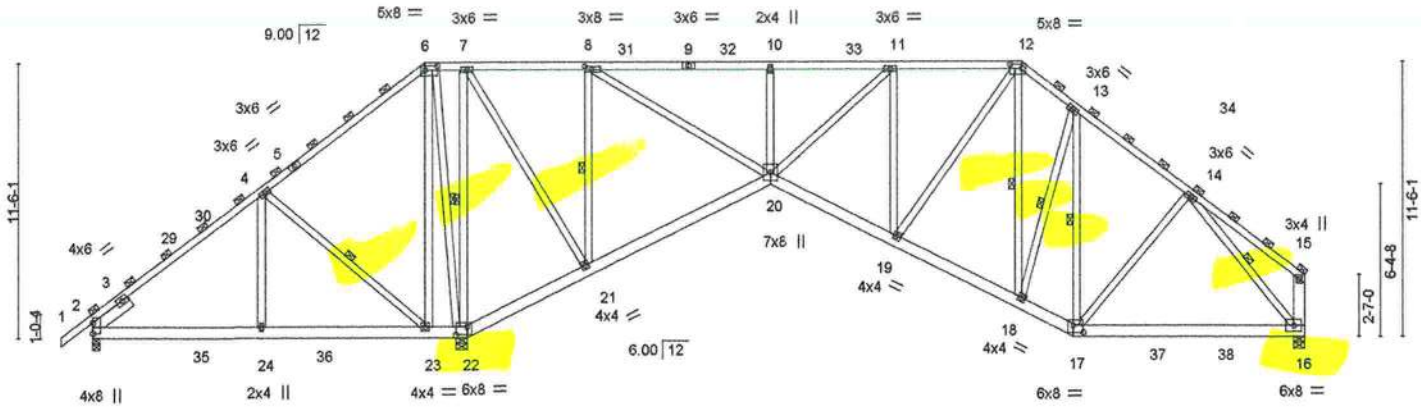

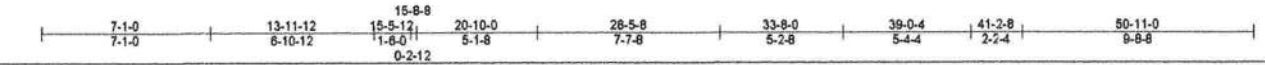

Plate Offsets (X,Y)-- [6:0-6-0,0-2-0], [8:0-3-8,0-1-8], [12:0-6-0,0-2-0], [17:0-5-4,0-3-8], [22:0-5-8,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.80	Vert(LL)	-0.12	16-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.21	16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.11	16	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 434 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
15-16: 2x6 SP No.2
SLIDER Left 2x6 SP No.2 1-11-8

BRACING-
TOP CHORD 2-0-0 oc purlins (5-4-0 max.), except end verticals, and sheathed or 5-2-13 oc purlins: 6-12.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-23, 6-22, 7-22, 8-21, 12-18, 13-18, 13-17, 14-16

REACTIONS. (size) 2=0-3-8, 22=0-5-8, 16=0-5-8
Max Horz 2=315(LC 11)
Max Uplift 2=-405(LC 26), 22=-770(LC 9), 16=-394(LC 13)
Max Grav 2=227(LC 8), 22=3156(LC 2), 16=1335(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-346/787, 4-6=-323/1138, 6-7=-234/1028, 7-8=-62/441, 8-10=-985/327, 10-11=-985/327, 11-12=-1020/446, 12-13=-1069/508, 13-14=-1152/435, 14-15=-286/105, 15-16=-285/121
BOT CHORD 2-24=-597/475, 23-24=-597/475, 22-23=-866/396, 21-22=-1209/453, 20-21=-537/298, 19-20=-292/1178, 18-19=-169/948, 17-18=-201/917, 16-17=-269/816
WEBS 4-24=-16/470, 4-23=-750/332, 6-23=-104/462, 6-22=-1225/270, 7-22=-1216/364, 7-21=-337/1253, 8-21=-1185/429, 8-20=-403/1609, 10-20=-359/201, 11-19=-290/237, 12-19=-186/386, 12-18=-184/344, 13-18=-260/175, 14-16=-1154/383

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 3-9-2, Zone1 3-9-2 to 13-11-12, Zone2 13-11-12 to 21-2-3, Zone1 21-2-3 to 39-0-4, Zone2 39-0-4 to 46-1-2, Zone1 46-1-2 to 50-8-4 zone; 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=405, 22=770, 16=394.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

Continued on page 2

MiTek®
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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113885
4011201	T10	Piggyback Base	11	1	Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-6=-54, 6-12=-54, 12-15=-79, 22-25=-20, 20-22=-20, 17-20=-20, 16-17=-20

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.	T34113866
4011201	T10A	Piggyback Base	5	1	Job Reference (optional)	

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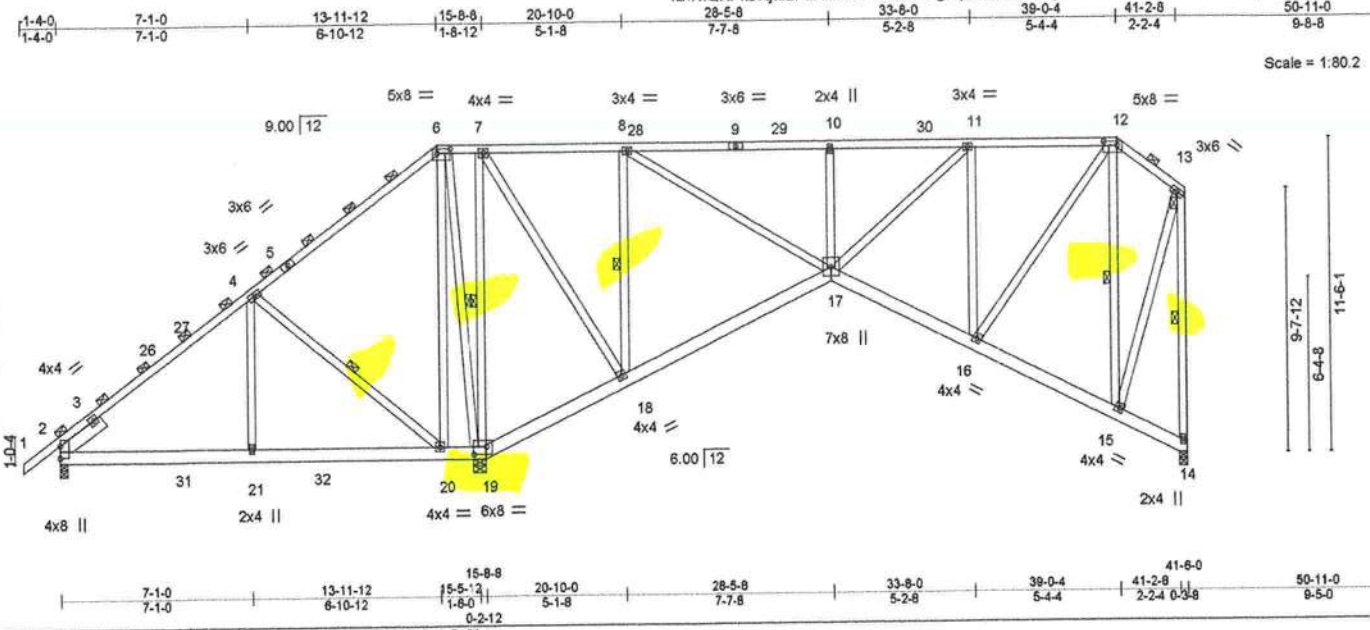

Plate Offsets (X,Y)-- [6:0-6-0,0-2-0], [12:0-6-0,0-2-0], [19:0-5-8,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	-0.07	17-18	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	-0.13	17-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.09	14	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 369 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except sheathed or 6-0-0 oc purlins: 6-12.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-20, 6-19, 7-19, 8-18, 12-15, 13-14

REACTIONS. (size) 2=0-3-8, 19=0-5-8, 14=0-3-8
Max Horz 2=400(LC 12)
Max Uplift 2=-129(LC 26), 19=-638(LC 9), 14=-234(LC 13)
Max Grav 2=443(LC 19), 19=2400(LC 2), 14=786(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-374/385, 4-6=-237/683, 6-7=-179/626, 8-10=-677/267, 10-11=-677/267, 11-12=-485/199
BOT CHORD 2-21=-279/330, 20-21=-279/330, 19-20=-500/221, 18-19=-752/260, 17-18=-264/90, 16-17=-192/581
WEBS 4-21=-21/441, 4-20=-708/337, 6-20=-102/484, 6-19=-978/298, 7-19=-951/361, 7-18=-289/949, 8-18=-859/374, 8-17=-300/954, 10-17=-360/202, 11-17=-144/259, 11-16=-450/255, 12-16=-204/543, 12-15=-537/210, 13-15=-166/593, 13-14=-756/234

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 3-9-2, Zone1 3-9-2 to 13-11-12, Zone2 13-11-12 to 21-2-3, Zone1 21-2-3 to 39-0-4, Zone3 39-0-4 to 41-4-4 zone; 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=129, 19=638, 14=234.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

Continued on page 2

MiTek®
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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-6=-54, 6-12=-54, 12-13=-79, 19-22=-20, 17-19=-20, 14-17=-20

Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113867
4011201	T10G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:35 2024 Page 1
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1-4-0 | 7-1-0 | 13-11-12 | 15-8-8 | 20-10-0 | 28-5-8 | 33-8-0 | 38-6-7 | 41-2-8 | 46-0-0 | 50-11-0
1-4-0 | 7-1-0 | 6-10-12 | 1-8-12 | 5-1-8 | 7-7-8 | 5-2-8 | 4-10-7 | 2-8-1 | 4-9-8 | 4-11-0

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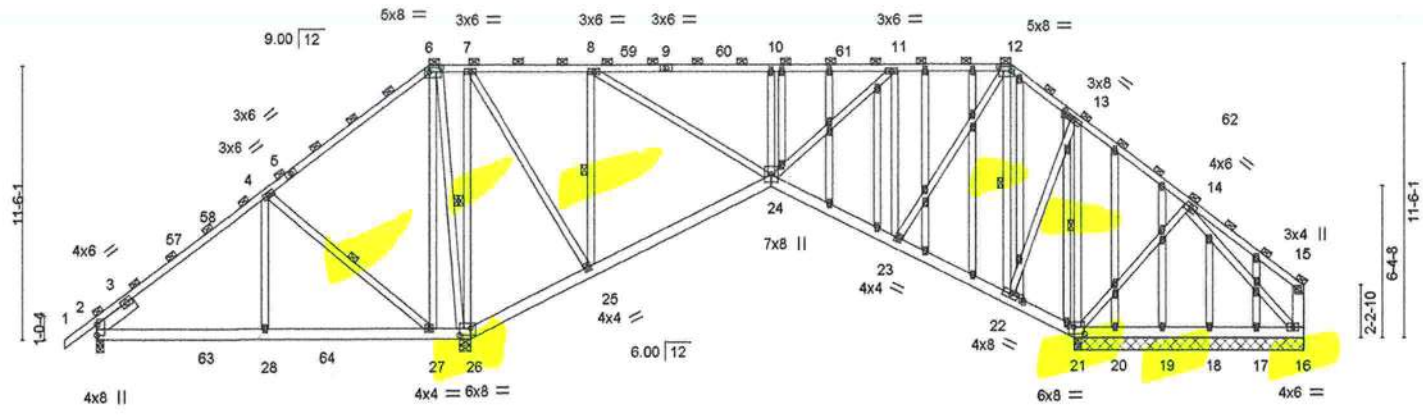

15-8-8
7-1-0 | 13-11-12 | 15-5-12 | 20-10-0 | 28-5-8 | 33-8-0 | 38-6-7 | 41-2-8 | 50-11-0
7-1-0 | 6-10-12 | 1-8-0 | 5-1-8 | 7-7-8 | 5-2-8 | 4-10-7 | 2-8-1 | 9-8-8
0-2-12

Plate Offsets (X,Y)-- [6:0-6-0,0-2-0], [12:0-6-0,0-2-0], [21:0-5-4,0-3-8], [26:0-5-8,0-3-8], [36:0-3-13,0-2-8], [37:0-2-0,0-0-12], [39:0-1-6,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.06	24-25	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.11	24-25	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.07	21	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 534 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
15-16: 2x6 SP No.2
OTHERS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 23-24.
WEBS 1 Row at midpt 4-27, 6-26, 7-26, 8-25, 12-22, 13-21

REACTIONS. All bearings 9-8-8 except (jt=length) 2=0-3-8, 26=0-5-8.
(lb) - Max Horz 2=310(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 20 except 2=-167(LC 12), 26=-572(LC 9), 21=-505(LC 13), 16=-259(LC 27)
Max Grav All reactions 250 lb or less at joint(s) 16, 17, 18, 19, 20 except 2=460(LC 19), 26=2162(LC 2), 21=1533(LC 28), 21=1492(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-295/303, 4-6=-208/584, 6-7=-132/552, 8-10=-411/177, 10-11=-411/177, 13-14=-208/499
BOT CHORD 2-28=-209/389, 27-28=-209/389, 26-27=-421/289, 25-26=-652/318, 24-25=-287/224, 23-24=-126/287, 21-22=-446/221, 20-21=-251/116, 19-20=-251/116, 18-19=-251/116, 17-18=-251/116, 16-17=-251/116
WEBS 4-28=-6/435, 4-27=-706/322, 6-27=-110/486, 6-26=-960/210, 7-26=-821/286, 7-25=-248/795, 8-25=-696/329, 8-24=-214/634, 10-24=-364/204, 11-24=-188/313, 11-23=-468/276, 12-23=-222/550, 12-22=-696/307, 13-22=-247/706, 13-21=-1010/239, 14-21=-282/231, 14-16=-187/376

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 3-9-2, Zone1 3-9-2 to 13-11-12, Zone2 13-11-12 to 21-2-3, Zone1 21-2-3 to 38-6-7, Zone2 38-6-7 to 45-8-14, Zone1 45-8-14 to 50-8-4 zone; 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

Continued on page 2

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113867
4011201	T10G	GABLE	1	1	Job Reference (optional)

NOTES-

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20 except (jt=lb) 2=167, 26=572, 21=505, 16=259.
11) 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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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113868
4011201	T11	Piggyback Base	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:35 2024 Page 1
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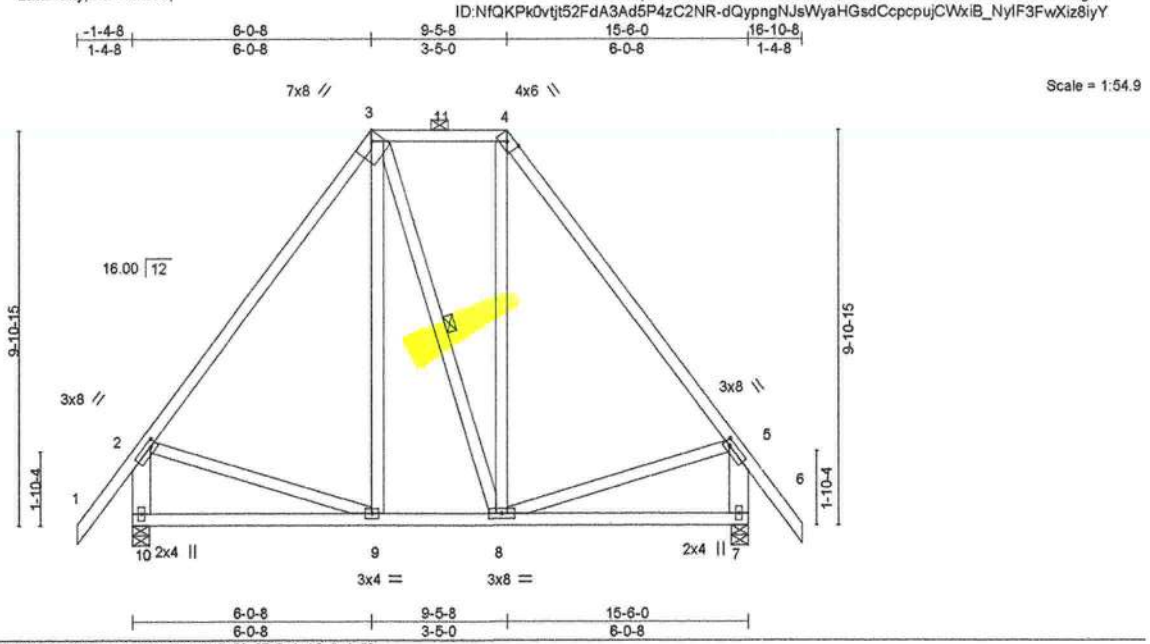

Plate Offsets (X,Y)-- [2:0-2-0,0-1-8], [3:0-2-13,Edge], [4:0-3-2,0-2-0], [5:0-1-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	-0.04	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.07	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 133 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-10,5-7: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-8

REACTIONS. (size) 10=0-5-0, 7=0-5-0
Max Horz 10=331(LC 11)
Max Uplift 10=-147(LC 13), 7=-147(LC 12)
Max Grav 10=643(LC 1), 7=643(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-496/193, 3-4=-317/208, 4-5=-496/193, 2-10=-584/172, 5-7=-585/172
BOT CHORD 9-10=-340/412, 8-9=-131/295
WEBS 2-9=-171/296, 5-8=-174/297

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone1 -1-4-8 to 6-0-8, Zone3 6-0-8 to 9-5-8, Zone1 9-5-8 to 16-10-8 zone; 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=147, 7=147.
8) 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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Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113869
4011201	T11G	Piggyback Base Supported Gable	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:36 2024 Page 1
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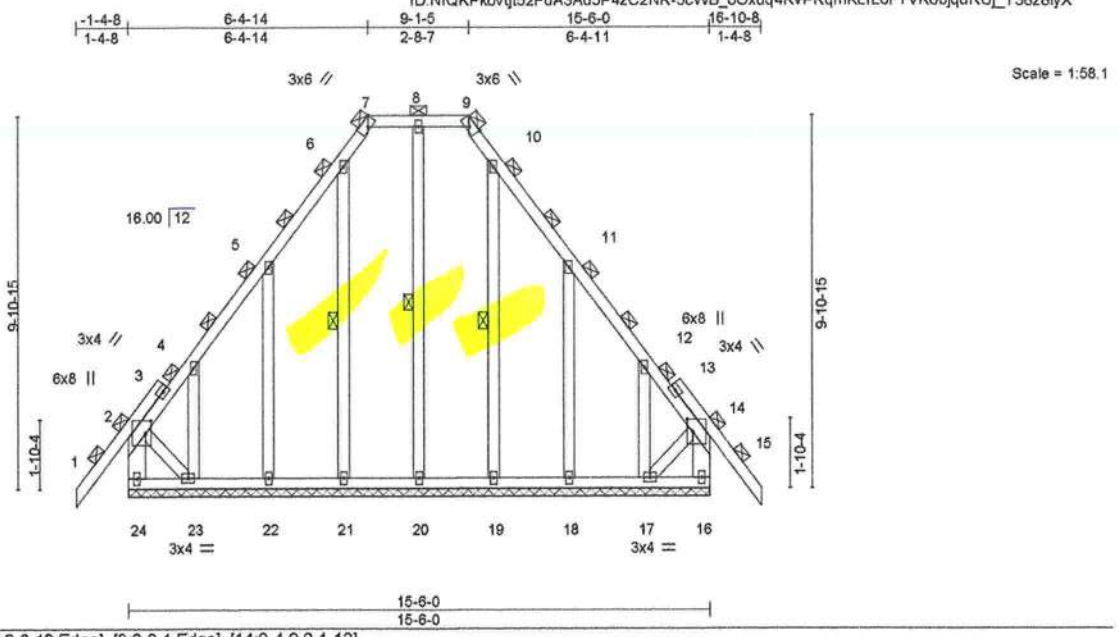

Plate Offsets (X,Y)-- [2:0-4-0,0-1-12], [7:0-2-13,Edge], [9:0-3-1,Edge], [14:0-4-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	-0.01	15	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.01	15	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	16	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 148 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2 *Except* 2-23,14-17: 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 23-24,16-17.
WEBS 1 Row at midpt 8-20, 6-21, 10-19

REACTIONS. All bearings 15-6-0.
(lb) - Max Horz 24=-323(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 20, 21, 19 except 24=-226(LC 10), 16=-177(LC 11), 22=-215(LC 12), 23=-347(LC 12), 18=-217(LC 13), 17=-339(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 20, 21, 22, 19, 18, 17 except 24=397(LC 12), 16=379(LC 13), 23=270(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-24=-385/279, 2-4=-290/207, 12-14=-276/205, 14-16=-368/278
BOT CHORD 23-24=-293/278, 22-23=-177/262, 21-22=-177/262, 20-21=-177/262, 19-20=-177/262, 18-19=-177/262, 17-18=-177/262
WEBS 2-23=-218/337, 14-17=-196/329

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone2 -1-4-8 to 6-4-14, Zone3 6-4-14 to 9-1-5, Zone2 9-1-5 to 16-10-8 zone; 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 21, 19 except (jt=lb) 24=226, 16=177, 22=215, 23=347, 18=217, 17=339.
13) 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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Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113870
4011201	T12	Piggyback Base Girder	1	2	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:37 2024 Page 1
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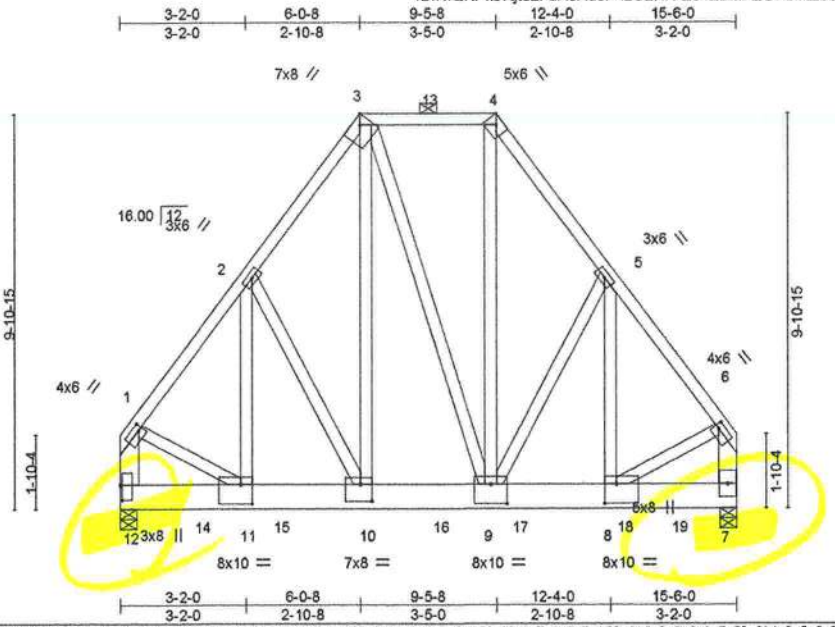

Scale = 1:54.9

Plate Offsets (X,Y)-- [1:0-1-4,0-1-12], [3:0-2-13,Edge], [4:0-2-13,Edge], [6:0-1-4,0-1-12], [8:0-3-8,0-5-12], [9:0-5-0,0-5-12], [10:0-3-8,0-5-0], [11:0-3-8,0-5-12], [12:0-4-8,0-0-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	-0.05	10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	-0.08	10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 346 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
1-12,6-7: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-5-0, 7=0-5-0
Max Horz 12=268(LC 5)
Max Uplift 12=-1473(LC 9), 7=-1583(LC 8)
Max Grav 12=6444(LC 2), 7=6931(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-5117/1207, 2-3=-4574/1185, 3-4=-2856/798, 4-5=-4758/1229, 5-6=-5172/1219, 1-12=-5653/1305, 6-7=-5696/1314
BOT CHORD 11-12=-308/395, 10-11=-830/3030, 9-10=-710/2732, 8-9=-701/3060, 7-8=-94/284
WEBS 2-11=-249/941, 2-10=-732/361, 3-10=-833/3168, 3-9=-189/410, 4-9=-936/3648, 5-9=-560/313, 5-8=-204/689, 1-11=-722/3178, 6-8=-722/3169

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=1473, 7=1583.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1773 lb down and 412 lb up at 2-0-4, 1773 lb down and 412 lb up at 4-0-4, 1773 lb down and 412 lb up at 6-0-4, 1773 lb down and 412 lb up at 8-0-4, 1773 lb down and 412 lb up at 10-0-4, and 1773 lb down and 412 lb up at 12-0-4, and 1773 lb down and 412 lb up at 14-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

LOAD CASE(S) Standard

MiTek®
16023 Swingley Ridge Rd.
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314.434.1200 / MiTek-US.com

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-4=-54, 4-6=-54, 7-12=-20
   Concentrated Loads (lb)
   Vert: 10=-1522(B) 14=-1522(B) 15=-1522(B) 16=-1522(B) 17=-1522(B) 18=-1522(B) 19=-1522(B)

Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113871
4011201	T13	Common	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:37 2024 Page 1
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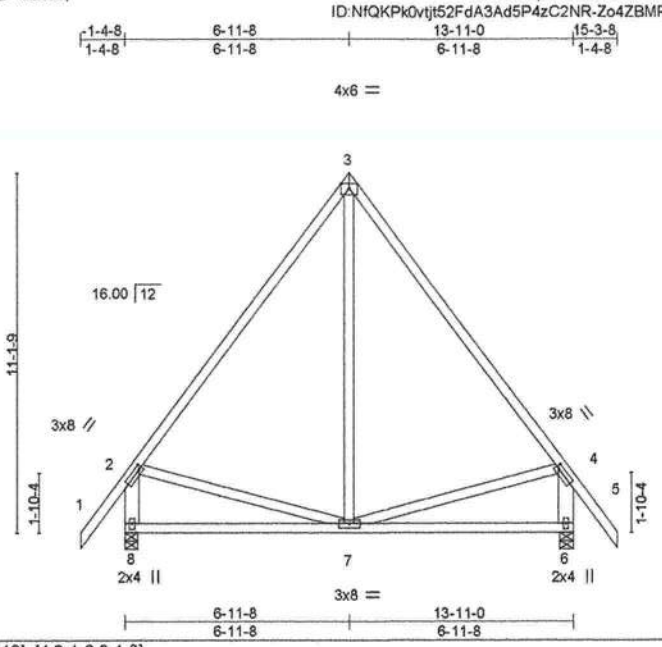

Plate Offsets (X,Y)-- [2:0-1-0,0-1-8], [3:Edge,0-1-13], [4:0-1-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	-0.04	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.08	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 106 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-8,4-6: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-1-14 oc bracing.

REACTIONS. (size) 8=0-5-0, 6=0-5-0
Max Horz 8=-361(LC 10)
Max Uplift 8=-158(LC 13), 6=-158(LC 12)
Max Grav 8=585(LC 1), 6=585(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-448/207, 3-4=-448/207, 2-8=-525/174, 4-6=-525/175
BOT CHORD 7-8=-416/490, 6-7=-203/255
WEBS 3-7=-95/269, 2-7=-248/404, 4-7=-251/406

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone1 zone; 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=158, 6=158.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113872
4011201	T13G	Common Supported Gable	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:38 2024 Page 1
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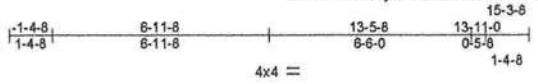

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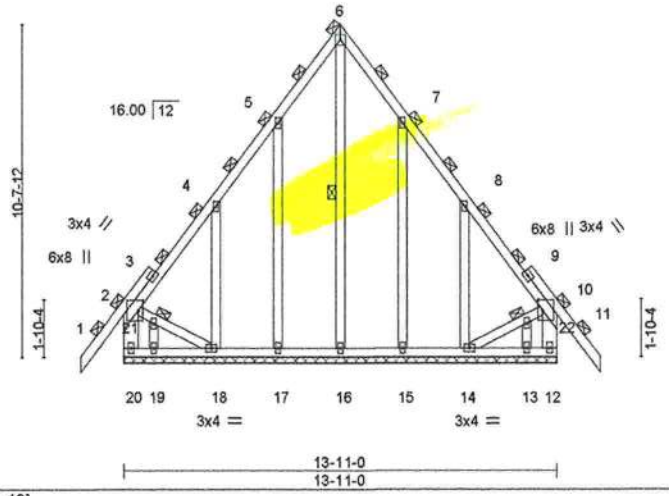

Plate Offsets (X,Y)-- [2:0-4-0,0-1-12], [10:0-4-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	-0.01	11	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.01	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 135 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2 *Except*
2-18,10-14: 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-16
JOINTS 1 Brace at Jt(s): 2, 6, 10, 21, 22

REACTIONS. All bearings 13-11-0.
(lb) - Max Horz 20=-340(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 19, 13 except 20=-166(LC 10), 12=-122(LC 11), 17=-187(LC 12), 18=-333(LC 12), 15=-187(LC 13), 14=-331(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 16, 17, 19, 15, 13 except 20=293(LC 21), 12=281(LC 22), 18=262(LC 19), 14=258(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-20=-279/185, 2-4=-267/187, 8-10=-255/172, 10-12=-270/184
BOT CHORD 19-20=-303/301, 18-19=-303/301, 17-18=-180/268, 16-17=-180/268, 15-16=-180/268, 14-15=-180/268
WEBS 2-21=-212/300, 18-21=-210/297, 14-22=-209/293, 10-22=-211/296

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone2 zone; 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 13 except (jt=lb) 20=166, 12=122, 17=187, 18=333, 15=187, 14=331.
12) 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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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

MiTek®
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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.
4011201	T14	Common Girder	1	2	T34113873

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:39 2024 Page 1
ID:NfQKPk0vtjt52FdA3Ad5P4zC2NR-VBCJc2QpwlS0mtAORSuYzktzcY6Tw31tAhD7gTz8iyU

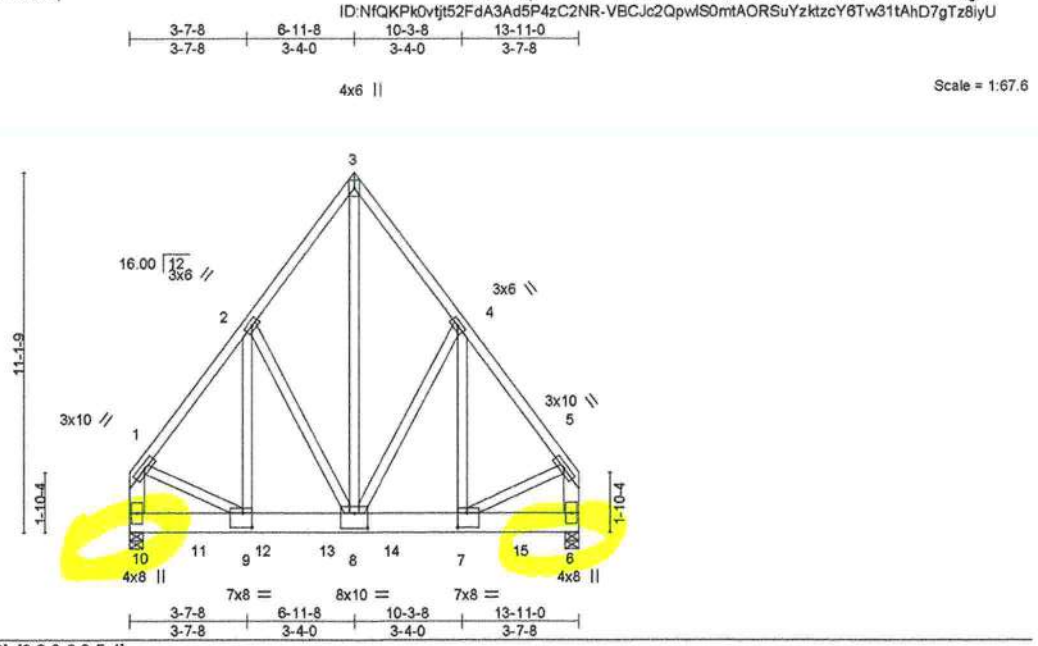

Plate Offsets (X,Y)-- [7:0-3-8,0-5-4], [8:0-5-0,0-5-8], [9:0-3-8,0-5-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	-0.05	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	-0.08	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 293 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
3-8: 2x4 SP No.2, 1-10,5-6: 2x6 SP No.2

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

REACTIONS. (size) 10=0-5-0, 6=0-5-0
Max Horz 10=-299(LC 4)
Max Uplift 10=-1320(LC 9), 6=-1358(LC 8)
Max Grav 10=5662(LC 2), 6=5833(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4468/1086, 2-3=-3480/973, 3-4=-3480/973, 4-5=-4489/1091, 1-10=-4732/1123, 5-6=-4744/1126
BOT CHORD 9-10=-344/441, 8-9=-726/2637, 7-8=-613/2649, 6-7=-102/292
WEBS 3-8=-1433/5328, 4-8=-1220/496, 4-7=-424/1757, 2-8=-1194/490, 2-9=-414/1717, 1-9=-604/2622, 5-7=-604/2610

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=1320, 6=1358.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1772 lb down and 412 lb up at 2-0-4, 1772 lb down and 412 lb up at 4-0-4, 1772 lb down and 412 lb up at 6-0-4, 1772 lb down and 412 lb up at 8-0-4, and 1772 lb down and 412 lb up at 10-0-4, and 1772 lb down and 412 lb up at 12-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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Date: June 10,2024

LOAD CASE(S) Standard

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.
4011201	T14	Common Girder	1	2	T34113873 Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-5=-54, 6-10=-20
   Concentrated Loads (lb)
   Vert: 7=-1521(F) 11=-1521(F) 12=-1521(F) 13=-1521(F) 14=-1521(F) 15=-1521(F)

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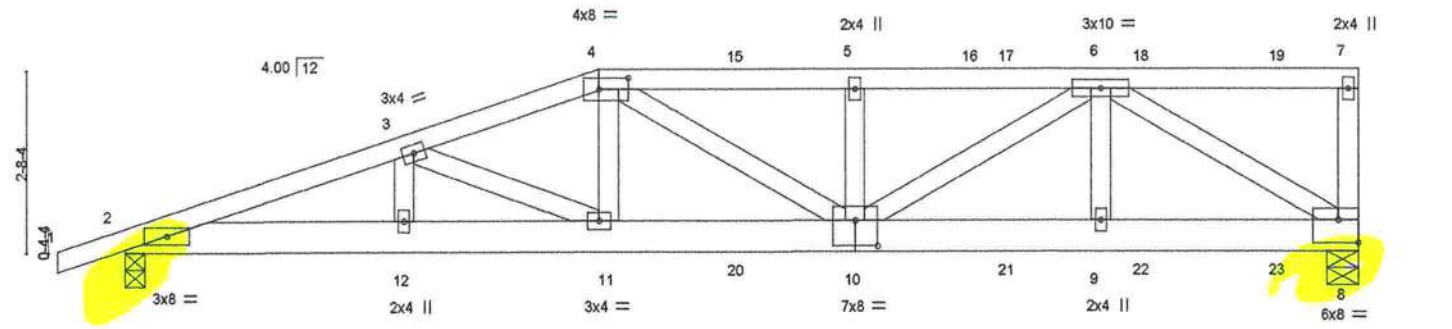
Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113874
4011201	T15	Half Hip Girder	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:40 2024 Page 1
ID:NfQKPk0vtjt52FdA3Ad5P4zC2NR-zNmiqORSh2atO1lb?APnWyQ3xyJcfT51PLyhCvz8iyT

-1-0-0	4-1-7	7-0-0	10-9-7	14-5-1	18-2-8
1-0-0	4-1-7	2-10-10	3-9-7	3-7-11	3-9-7

Scale: 3/8"=1'



4-1-7	7-0-0	10-9-7	14-5-1	18-2-8
4-1-7	2-10-10	3-9-7	3-7-11	3-9-7

Plate Offsets (X,Y)-- [4:0-5-4,0-2-0], [8:Edge,0-4-0], [10:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.52	Vert(LL)	0.15	11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.21	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 107 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-9-13 oc bracing.

REACTIONS. (size) 8=0-5-8, 2=0-3-8
Max Horz 2=108(LC 21)
Max Uplift 8=-680(LC 4), 2=-645(LC 4)
Max Grav 8=1496(LC 1), 2=1260(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3247/1586, 3-4=-3041/1467, 4-5=-2882/1355, 5-6=-2880/1354
BOT CHORD 2-12=-1559/3062, 11-12=-1559/3062, 10-11=-1428/2910, 9-10=-895/1948, 8-9=-895/1948
WEBS 3-11=-284/274, 4-11=-313/630, 5-10=-415/241, 6-10=-544/1105, 6-9=-23/315, 6-8=-2254/1035

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=680, 2=645.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 111 lb down and 99 lb up at 7-0-0, 111 lb down and 99 lb up at 9-0-12, 111 lb down and 99 lb up at 11-0-12, 111 lb down and 95 lb up at 13-0-12, and 111 lb down and 99 lb up at 15-0-12, and 111 lb down and 99 lb up at 17-0-12 on top chord, and 360 lb down and 251 lb up at 7-0-0, 84 lb down and 21 lb up at 9-0-12, 84 lb down and 21 lb up at 11-0-12, 84 lb down and 21 lb up at 13-0-12, and 84 lb down and 21 lb up at 15-0-12, and 84 lb down and 21 lb up at 17-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) 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=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-7=-54, 2-8=-20

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June 10,2024

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113874
4011201	T15	Half Hip Girder	2	1	Job Reference (optional)

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 4=-111(F) 11=-360(F) 10=-68(F) 5=-111(F) 15=-111(F) 17=-111(F) 18=-111(F) 19=-111(F) 20=-68(F) 21=-68(F) 22=-68(F) 23=-68(F)

Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.
4011201	T16	Monopitch	18	1	T34113875
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:40 2024 Page 1
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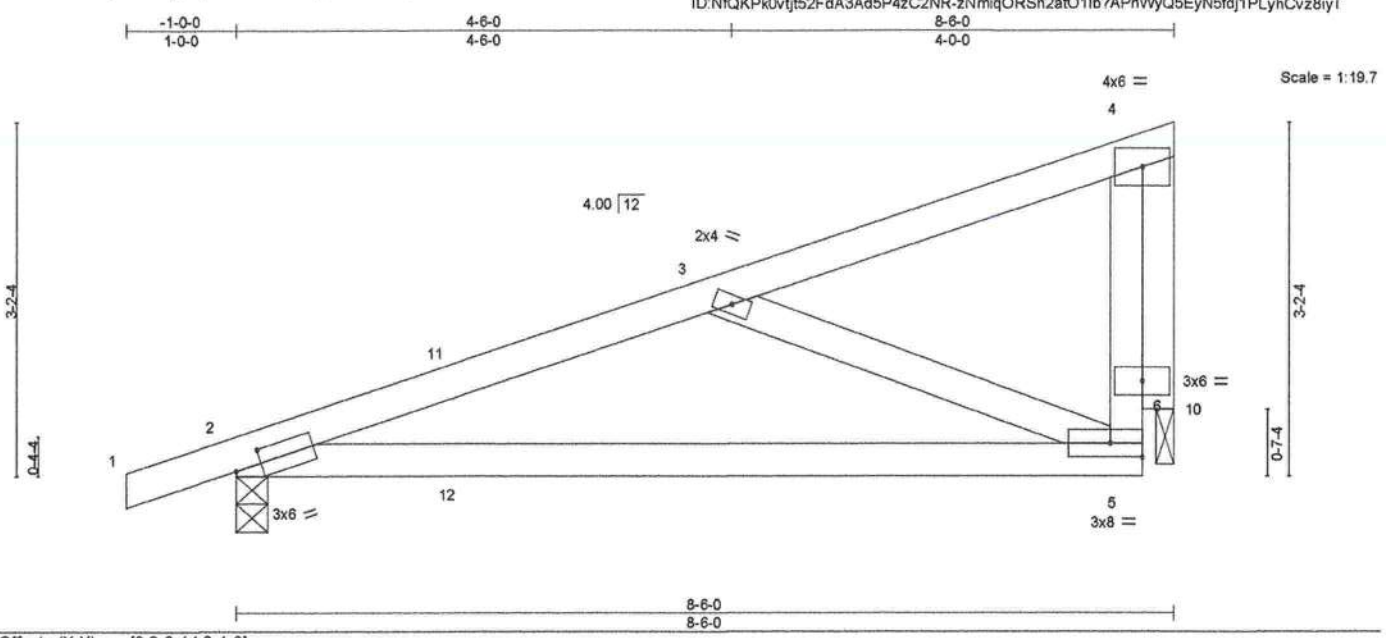

Plate Offsets (X,Y)-- [2:0-2-14,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	0.10	5-9	>985	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.19	5-9	>534	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	-0.00	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 40 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-7-10 oc bracing.

REACTIONS. (size) 2=0-3-8, 10=0-2-0
Max Horz 2=121(LC 8)
Max Uplift 2=-208(LC 8), 10=-179(LC 8)
Max Grav 2=368(LC 1), 10=283(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-476/325
BOT CHORD 2-5=-414/445
WEBS 3-5=-407/379, 4-10=-286/261

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 8-0-12 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=208, 10=179.

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Date:

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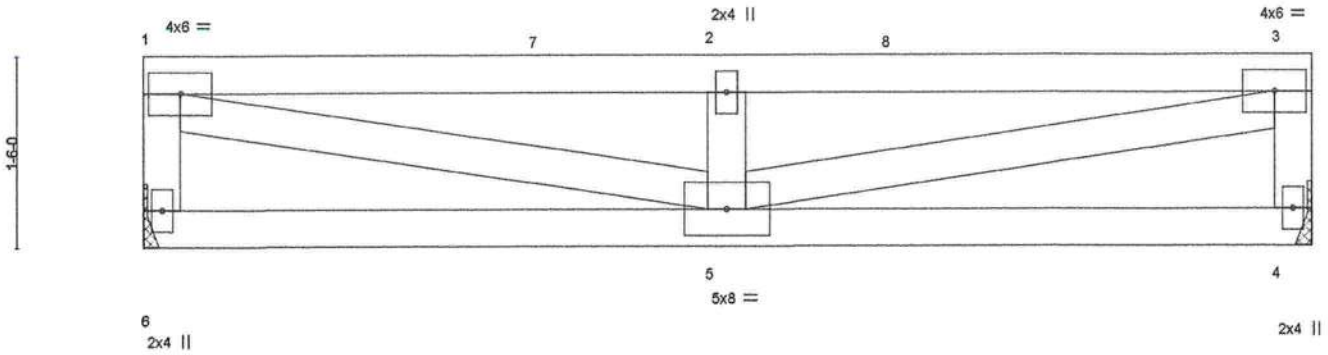
Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.	T34113876
4011201	TF01	Flat	14	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:41 2024 Page 1
ID:NfQKPk0vtjt52FdA3Ad5P4zC2NR-RaJ41kS4SMjk?BKnYtw029yFxLnJO_dAd?iElMz8iyS

4-7-4 (4-7-4) | 9-2-8 (4-7-4)

Scale = 1:17.2



4-7-4 (4-7-4) | 9-2-8 (4-7-4)

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	50.0	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	-0.05	5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.15	Vert(CT)	-0.07	5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.03	5	>999	240	Weight: 44 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 4=Mechanical
Max Uplift 6=-108(LC 8), 4=-108(LC 8)
Max Grav 6=580(LC 1), 4=580(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-541/290, 1-2=-1206/601, 2-3=-1206/601, 3-4=-541/290
WEBS 1-5=-566/1135, 2-5=-582/347, 3-5=-566/1135

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=108, 4=108.

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Date:

June 10,2024

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.
4011201	TF01G	GABLE	2	1	T34113877
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:41 2024 Page 1
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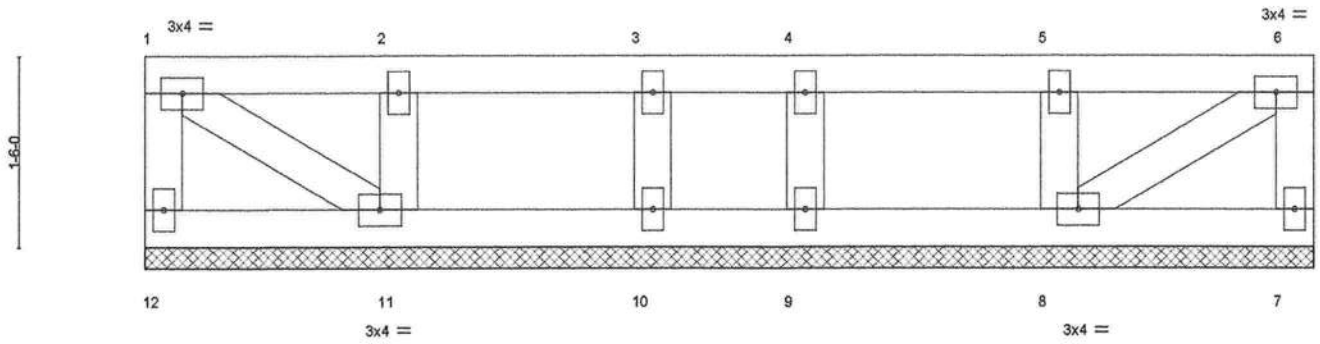
9-2-8
9-2-8

Scale = 1:17.2



9-2-8
9-2-8

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	50.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 41 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 9-2-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 12, 7, 8, 9, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 12, 7, 9, 10 except 8=289(LC 1), 11=289(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-8=-260/153, 2-11=-260/153

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7, 8, 9, 11, 10.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

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16023 Swingley Ridge Rd.
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314.434.1200 / MiTek-US.com

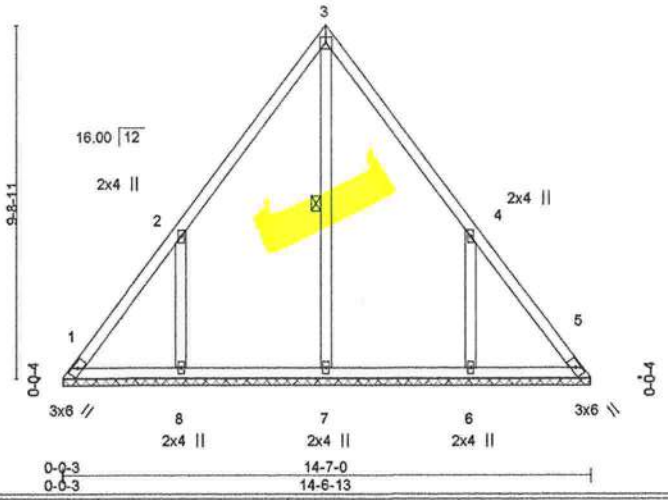
Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113878
4011201	V08	Valley	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:42 2024 Page 1
ID:NfQKPk0vtjt52FdA3Ad5P4zC2NR-wmtSF4TiDgrbdKuz8aRFbNVU1I747YQJsfRnHoz8iyR

7-3-8 / 7-3-8 | 14-7-0 / 7-3-8

4x4 =

Scale = 1:60.3



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 81 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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.
WEBS 1 Row at midpt 3-7

REACTIONS. All bearings 14-6-10.
(lb) - Max Horz 1=250(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 5 except 1=-106(LC 10), 8=-391(LC 12), 6=-391(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=342(LC 22), 8=495(LC 19), 6=495(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-294/218, 4-5=-270/179
WEBS 2-8=-372/405, 4-6=-372/405

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 1=106, 8=391, 6=391.

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113879
4011201	V09	Valley	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:42 2024 Page 1
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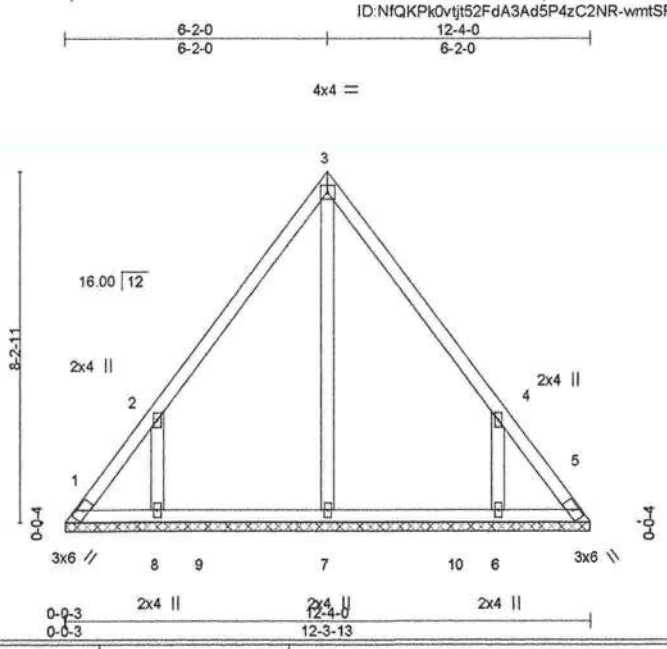

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 66 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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 12-3-10.
(lb) - Max Horz 1=-210(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) except 1=-133(LC 10), 5=-106(LC 11), 8=-353(LC 12), 6=-353(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=324(LC 22), 8=433(LC 19), 6=433(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-283/204, 4-5=-263/172
WEBS 2-8=-348/376, 4-6=-348/376

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 1, 106 lb uplift at joint 5, 353 lb uplift at joint 8 and 353 lb uplift at joint 6.

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113880
4011201	V10	Valley	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:43 2024 Page 1
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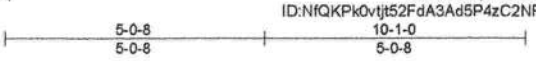

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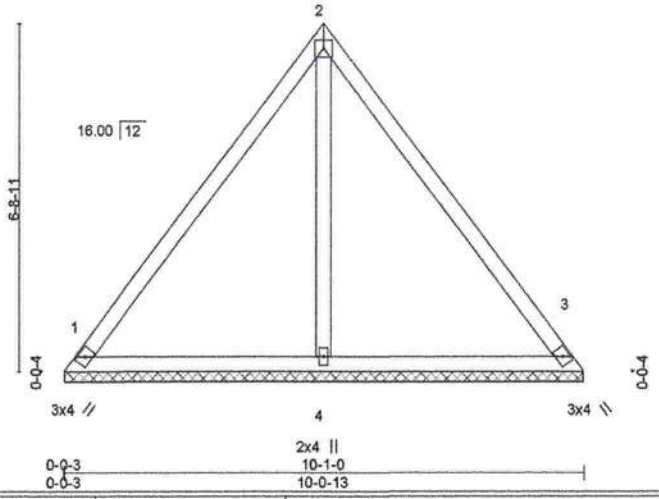

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 48 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. (size) 1=10-0-10, 3=10-0-10, 4=10-0-10
Max Horz 1=-170(LC 8)
Max Uplift 1=-78(LC 13), 3=-65(LC 12), 4=-52(LC 12)
Max Grav 1=212(LC 20), 3=211(LC 1), 4=281(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 1, 65 lb uplift at joint 3 and 52 lb uplift at joint 4.

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June 10,2024

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113881
4011201	V11	Valley	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:43 2024 Page 1
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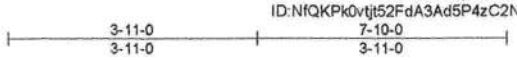

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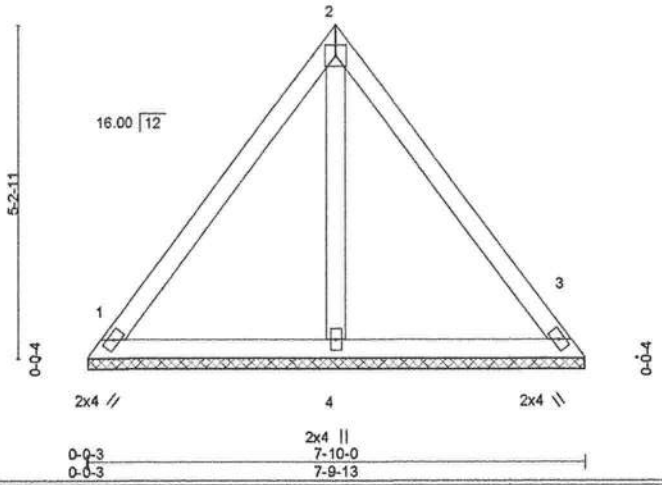

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 36 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. (size) 1=7-9-10, 3=7-9-10, 4=7-9-10
Max Horz 1=-129(LC 8)
Max Uplift 1=-59(LC 13), 3=-49(LC 12), 4=-40(LC 12)
Max Grav 1=162(LC 20), 3=161(LC 1), 4=214(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 1, 49 lb uplift at joint 3 and 40 lb uplift at joint 4.

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.
4011201	V12	Valley	1	1	T34113882
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:44 2024 Page 1
ID:NfQKPk0vtjt52FdA3Ad5P4zC2NR-s9?CfIUyIH5Jse2ME?UjgoarpZrMbTWcJzwuLhz8iyP

2-9-8 5-7-0
2-9-8 2-9-8

4x4 =

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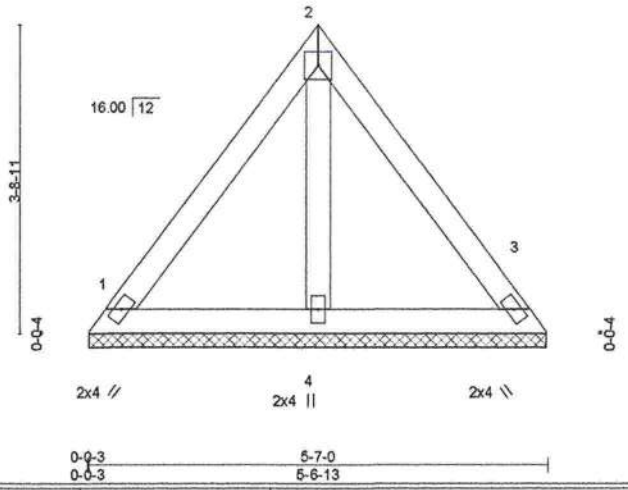

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 25 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. (size) 1=5-6-10, 3=5-6-10, 4=5-6-10
Max Horz 1=-89(LC 8)
Max Uplift 1=-53(LC 13), 3=-46(LC 12), 4=-4(LC 12)
Max Grav 1=118(LC 1), 3=118(LC 1), 4=143(LC 3)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 1, 46 lb uplift at joint 3 and 4 lb uplift at joint 4.

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113883
4011201	V13	Valley	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:44 2024 Page 1
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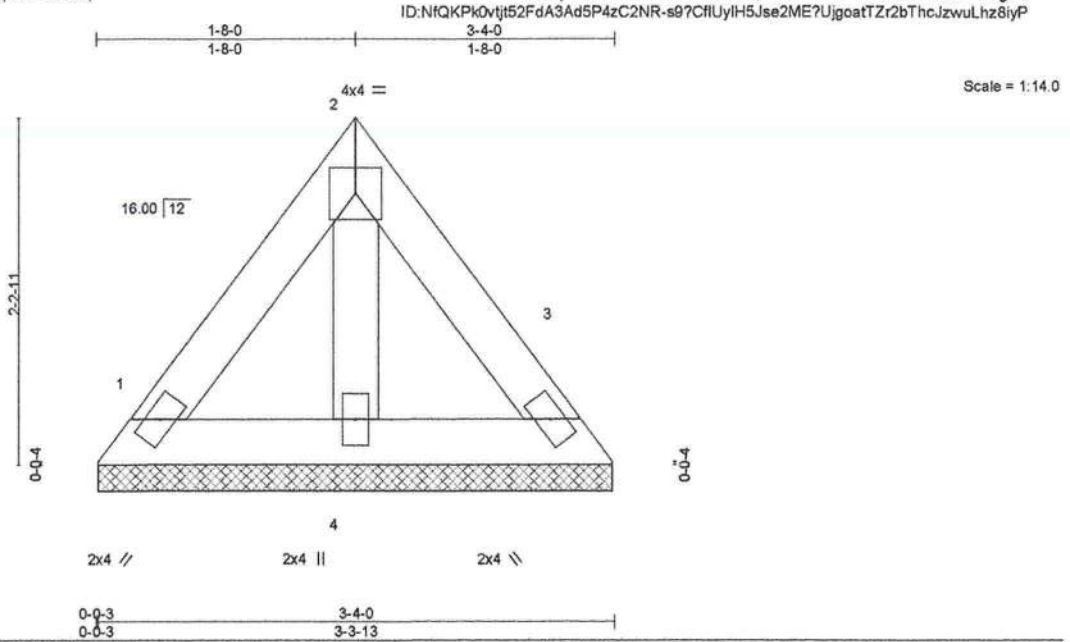

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 14 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. (size) 1=3-3-10, 3=3-3-10, 4=3-3-10
Max Horz 1=-49(LC 8)
Max Uplift 1=-29(LC 13), 3=-25(LC 12), 4=-2(LC 12)
Max Grav 1=65(LC 1), 3=65(LC 1), 4=79(LC 3)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 1, 25 lb uplift at joint 3 and 2 lb uplift at joint 4.

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113884
4011201	V14	Valley	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:45 2024 Page 1
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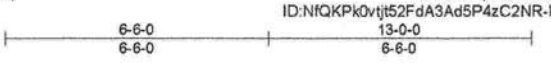

4x4 =

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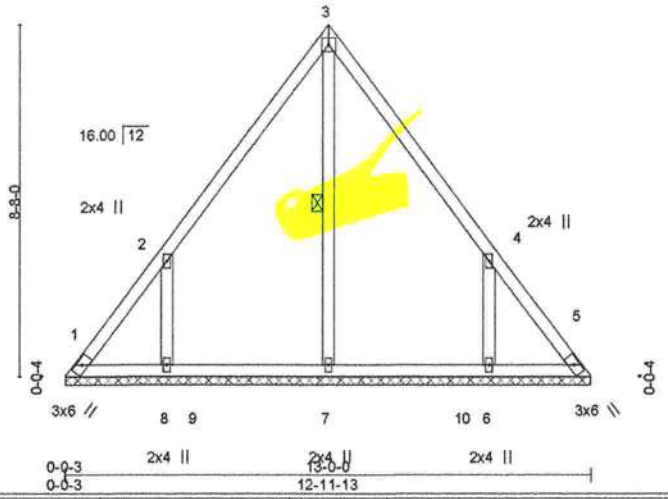

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 70 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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.
WEBS 1 Row at midpt 3-7

REACTIONS. All bearings 12-11-10.
(lb) - Max Horz 1=-222(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 5 except 1=-122(LC 10), 8=-360(LC 12), 6=-360(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=331(LC 22), 8=447(LC 19), 6=446(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-282/206, 4-5=-261/172
WEBS 2-8=-351/380, 4-6=-351/380

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 1=122, 8=360, 6=360.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113885
4011201	V15	Valley	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:46 2024 Page 1
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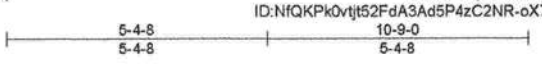

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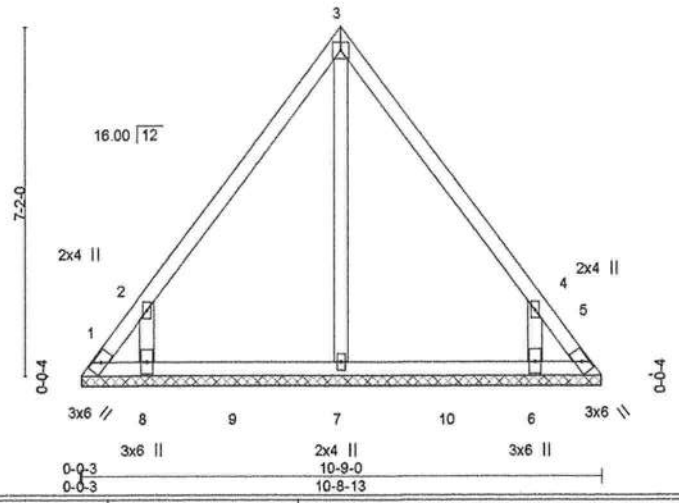

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 55 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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 10-8-10.
(lb) - Max Horz 1=182(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) except 1=-186(LC 10), 5=-163(LC 11), 8=-371(LC 12), 6=-371(LC 13)
Max Grav All reactions 250 lb or less at joint(s) except 1=266(LC 12), 5=252(LC 13), 7=299(LC 19), 8=444(LC 19), 6=444(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-317/219, 4-5=-300/191
WEBS 2-8=-380/408, 4-6=-380/407

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 186 lb uplift at joint 1, 163 lb uplift at joint 5, 371 lb uplift at joint 8 and 371 lb uplift at joint 6.

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Date:

June 10,2024

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314.434.1200 / MiTek-US.com

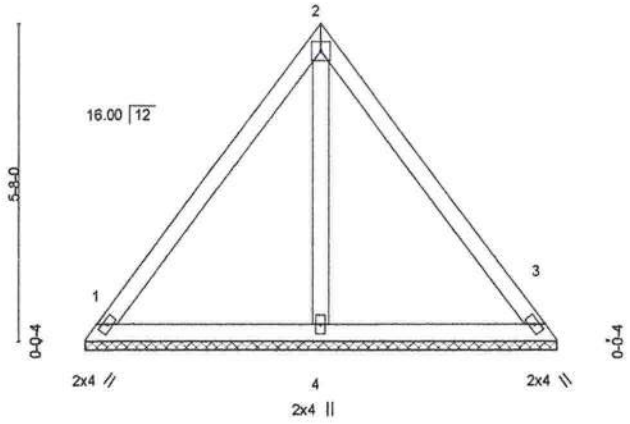
Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113886
4011201	V16	Valley	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:46 2024 Page 1
ID:NfQKPk0vtjt52FdA3Ad5P4zC2NR-oX7z4RWCHuL06yCILQWBlDgAfMVM3NLvnGP?QZz8iyN

4-3-0 (4-3-0) | 8-6-0 (4-3-0)

4x4 =

Scale = 1:39.1



0-0-3 (0-0-3) | 8-6-0 (8-5-13)

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 40 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. (size) 1=8-5-10, 3=8-5-10, 4=8-5-10
Max Horz 1=-141(LC 8)
Max Uplift 1=-65(LC 13), 3=-54(LC 12), 4=-43(LC 12)
Max Grav 1=177(LC 20), 3=176(LC 1), 4=234(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 1, 54 lb uplift at joint 3 and 43 lb uplift at joint 4.

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June 10,2024

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113887
4011201	V17	Valley	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:47 2024 Page 1
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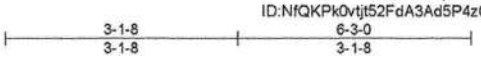

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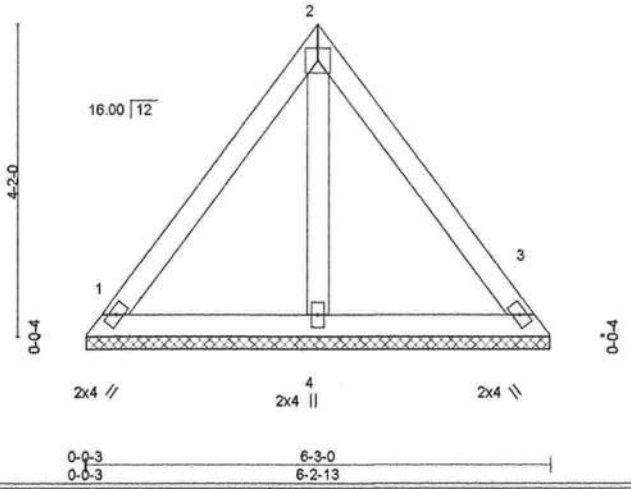

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 29 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. (size) 1=6-2-10, 3=6-2-10, 4=6-2-10
Max Horz 1=101(LC 9)
Max Uplift 1=-60(LC 13), 3=-52(LC 12), 4=-5(LC 12)
Max Grav 1=134(LC 1), 3=134(LC 1), 4=162(LC 3)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 1, 52 lb uplift at joint 3 and 5 lb uplift at joint 4.

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Date:

June 10,2024

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.
4011201	V18	Valley	1	1	T34113888
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:47 2024 Page 1
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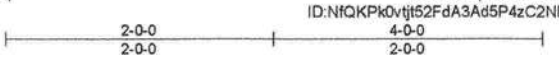

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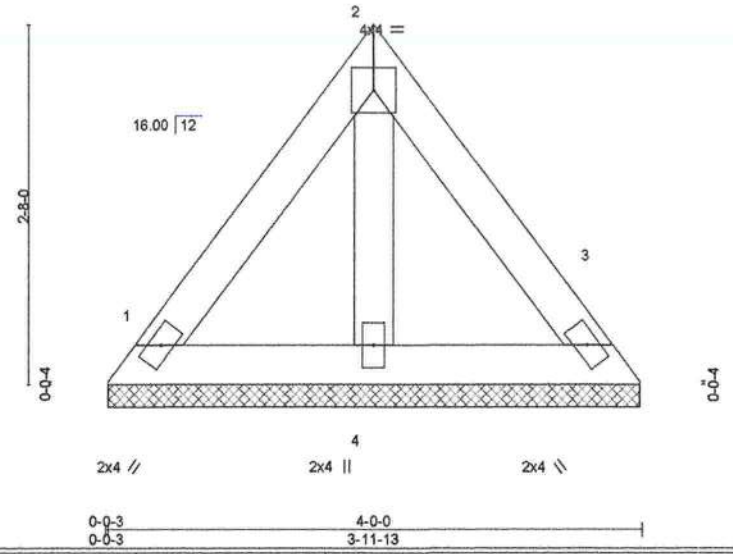

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 17 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. (size) 1=3-11-10, 3=3-11-10, 4=3-11-10
Max Horz 1=-61(LC 8)
Max Uplift 1=-36(LC 13), 3=-31(LC 12), 4=-3(LC 12)
Max Grav 1=81(LC 1), 3=81(LC 1), 4=98(LC 3)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1, 31 lb uplift at joint 3 and 3 lb uplift at joint 4.

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Date:

June 10,2024

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113889
4011201	V19	Roof Special	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:48 2024 Page 1
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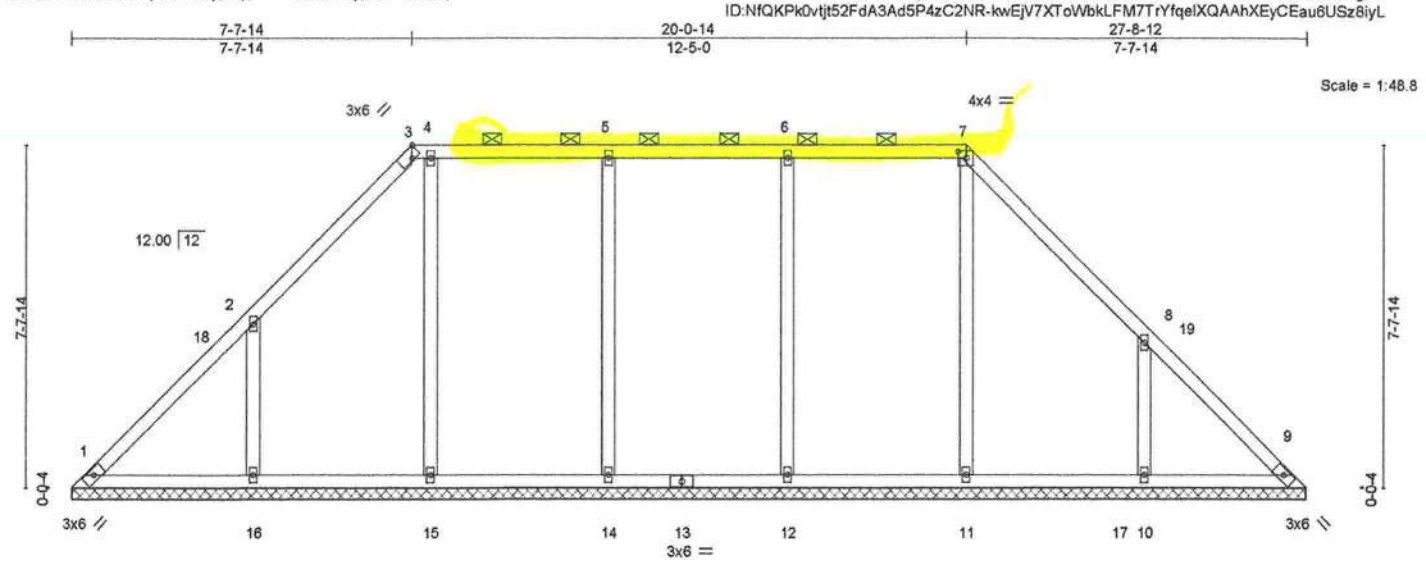

0-0-4 27-8-12
0-0-4 27-8-8

Plate Offsets (X,Y)-- [3:0-2-8,Edge], [7:0-2-4,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 142 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 27-8-4.
(lb) - Max Horz 1=-183(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 11, 15 except 12=-110(LC 9), 14=-113(LC 8), 16=-278(LC 12), 10=-279(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 9 except 11=358(LC 28), 12=389(LC 27), 14=385(LC 28), 15=373(LC 22), 16=471(LC 19), 10=449(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-16=-283/294, 8-10=-280/296

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-4-4 to 3-4-4, Zone1 3-4-4 to 7-7-14, Zone2 7-7-14 to 12-0-14, Zone1 12-0-14 to 20-0-14, Zone2 20-0-14 to 24-0-14, Zone1 24-0-14 to 27-4-9 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 11, 15 except (jt=lb) 12=110, 14=113, 16=278, 10=279.
10) 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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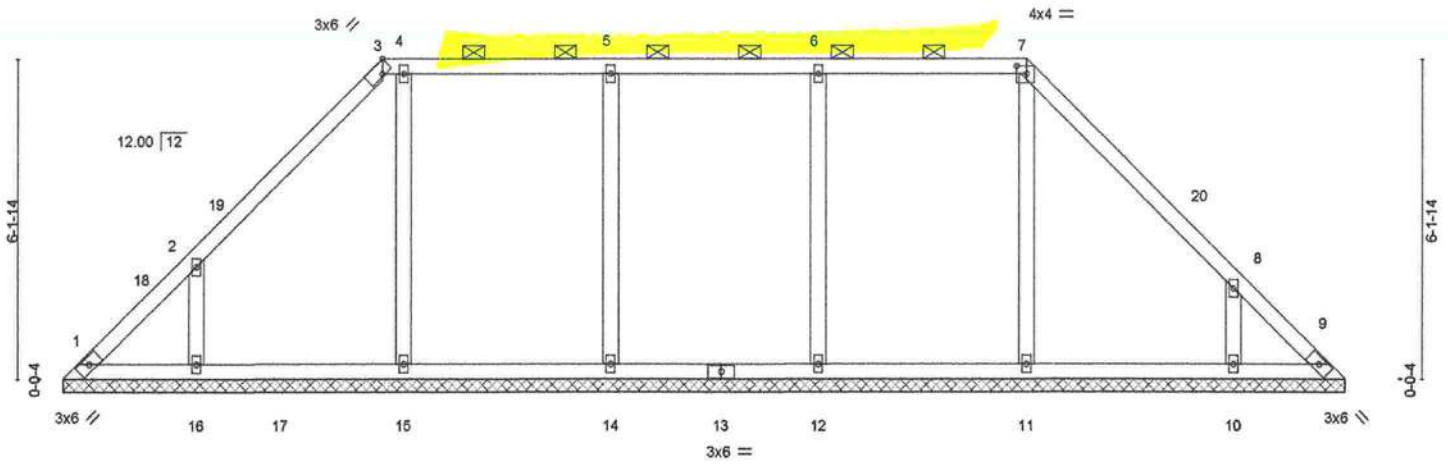
Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.
4011201	V20	Roof Special	1	1	T34113890
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:49 2024 Page 1
ID:NfQKPk0vtjt52FdA3Ad5P4zC2NR-C6o5jTY5ZpjbzPxJ0Z4uNrliBaWwGiaLTEef1uz8iyK

6-1-14 (6-1-14) | 18-6-14 (12-5-0) | 24-8-12 (6-1-14)

Scale = 1:42.0



0-0-4 (0-0-4) | 24-8-12 (24-8-8)

Plate Offsets (X,Y)-- [3:0-2-8,Edge], [7:0-2-4,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 118 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 24-8-4.
(lb) - Max Horz 1=-145(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 11, 15 except 12=-111(LC 9), 14=-112(LC 8), 16=-227(LC 12), 10=-244(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 9 except 11=335(LC 28), 12=393(LC 27), 14=383(LC 28), 15=366(LC 22), 16=368(LC 19), 10=360(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 8-10=-250/268

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-4-4 to 3-4-4, Zone1 3-4-4 to 6-1-14, Zone2 6-1-14 to 10-6-14, Zone1 10-6-14 to 18-6-14, Zone2 18-6-14 to 22-6-14, Zone1 22-6-14 to 24-4-9 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 11, 15 except (jt=lb) 12=111, 14=112, 16=227, 10=244.
10) 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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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

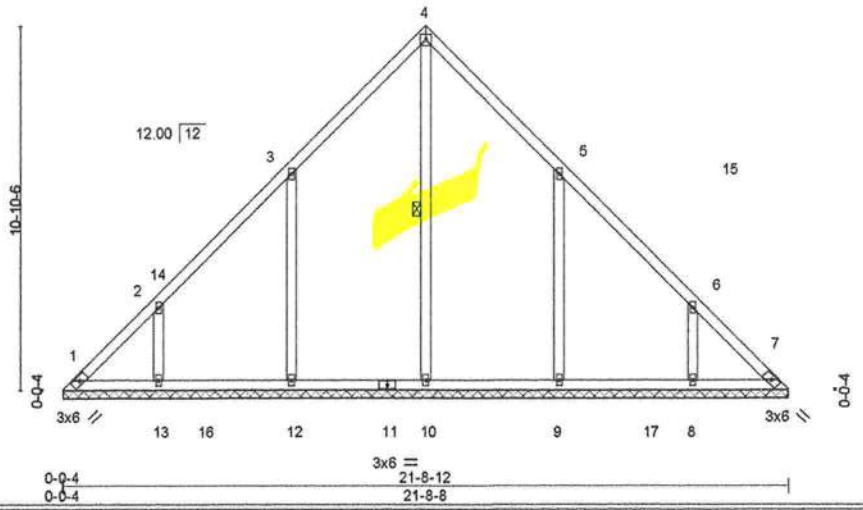
Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113891
4011201	V21	Valley	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:49 2024 Page 1
ID:NfQKPk0vtjt52FdA3Ad5P4zC2NR-C6o5jTY5ZpjbzPxJ0Z4uNrIizaWvGhSLTEef1uz8iyK

10-10-6 | 21-8-12
10-10-6 | 10-10-6

4x4 =

Scale = 1:65.3



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 117 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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.
WEBS 1 Row at midpt 4-10

REACTIONS. All bearings 21-8-4.
(lb) - Max Horz 1=-260(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=-276(LC 12), 13=-223(LC 12), 9=-276(LC 13), 8=-223(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=376(LC 22), 12=490(LC 19), 13=368(LC 19), 9=489(LC 20), 8=369(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-321/211, 6-7=-279/149
WEBS 3-12=-287/302, 5-9=-286/301

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-4-4 to 3-4-4, Zone1 3-4-4 to 10-10-6, Zone2 10-10-6 to 14-10-6, Zone1 14-10-6 to 21-4-9 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 12=276, 13=223, 9=276, 8=223.

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Date:

June 10,2024

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.	T34113892
4011201	V22	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:50 2024 Page 1
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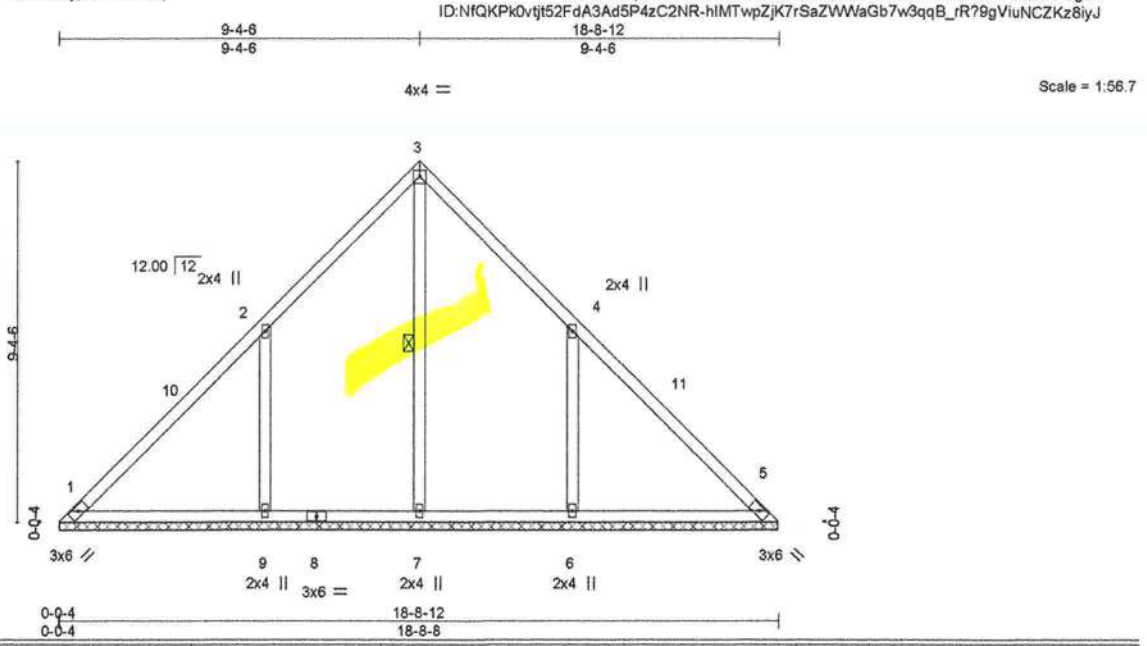

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 93 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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.
WEBS 1 Row at midpt 3-7

REACTIONS. All bearings 18-8-4.
(lb) - Max Horz 1=-223(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-351(LC 12), 6=-351(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=331(LC 22), 9=579(LC 19), 6=578(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-352/365, 4-6=-352/364

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-4-4 to 3-4-4, Zone1 3-4-4 to 9-4-6, Zone2 9-4-6 to 13-4-6, Zone1 13-4-6 to 18-4-9 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=351, 6=351.

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Date:

June 10,2024

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113893
4011201	V23	Valley	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:51 2024 Page 1
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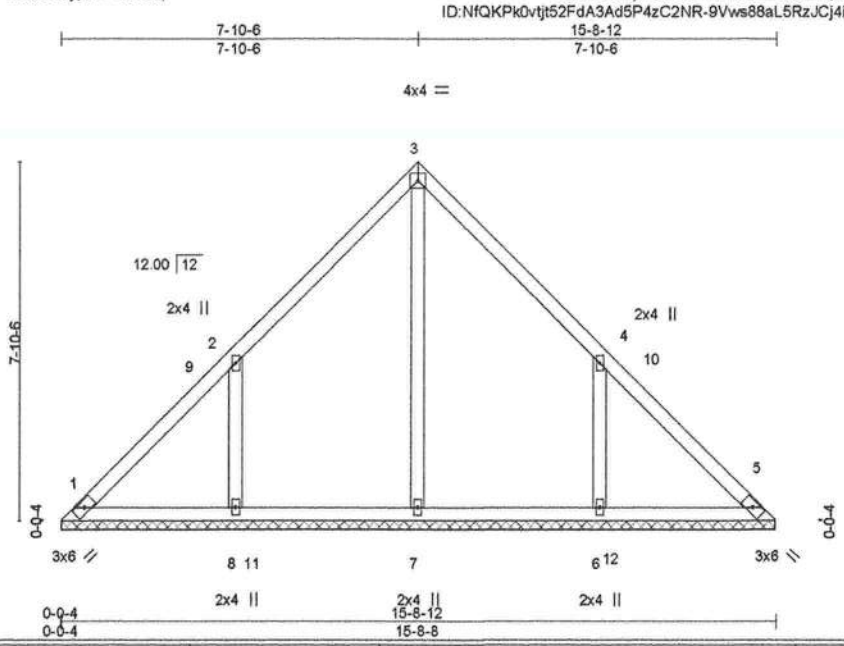

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 76 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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 15-8-4.
(lb) - Max Horz 1=186(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-284(LC 12), 6=-284(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=341(LC 22), 8=464(LC 19), 6=464(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-288/300, 4-6=-288/300

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-4-4 to 3-4-4, Zone1 3-4-4 to 7-10-6, Zone2 7-10-6 to 11-10-6, Zone1 11-10-6 to 15-4-9 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=284, 6=284.

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Date:

June 10,2024

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113894
4011201	V24	Valley	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:51 2024 Page 1
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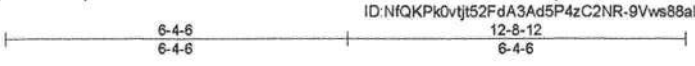

4x4 =

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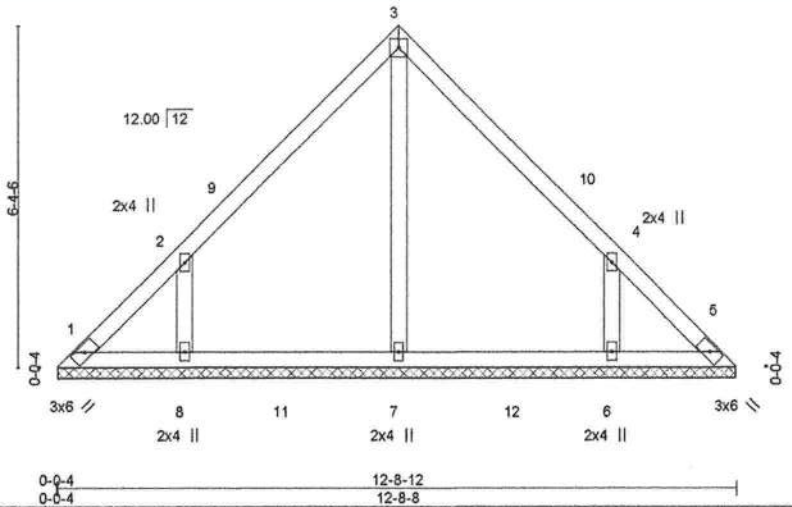

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 58 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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 12-8-4.
(lb) - Max Horz 1=-149(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-242(LC 12), 6=-241(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=324(LC 19), 8=375(LC 19), 6=375(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-250/285, 4-6=-250/285

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-4-4 to 3-4-4, Zone1 3-4-4 to 6-4-6, Zone2 6-4-6 to 10-4-6, Zone1 10-4-6 to 12-4-9 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=242, 6=241.

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Date:

June 10,2024

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Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.
4011201	V25	Valley	1	1	T34113895 Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:52 2024 Page 1

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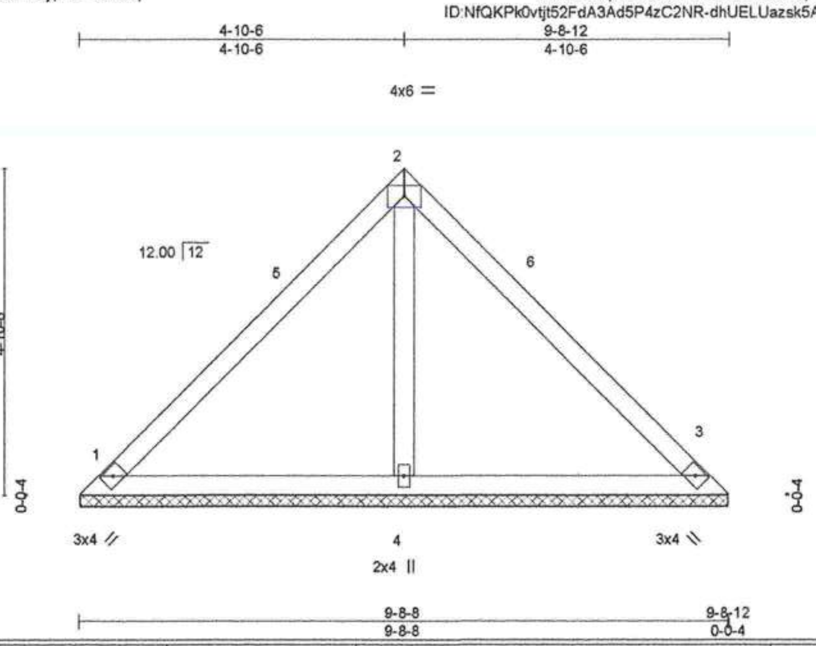

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 40 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. (size) 1=9-8-4, 3=9-8-4, 4=9-8-4
Max Horz 1=112(LC 9)
Max Uplift 1=-60(LC 13), 3=-60(LC 13), 4=-49(LC 12)
Max Grav 1=186(LC 1), 3=186(LC 1), 4=296(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-4-4 to 3-4-4, Zone1 3-4-4 to 4-10-6, Zone3 4-10-6 to 9-4-9 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

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Date:

June 10,2024

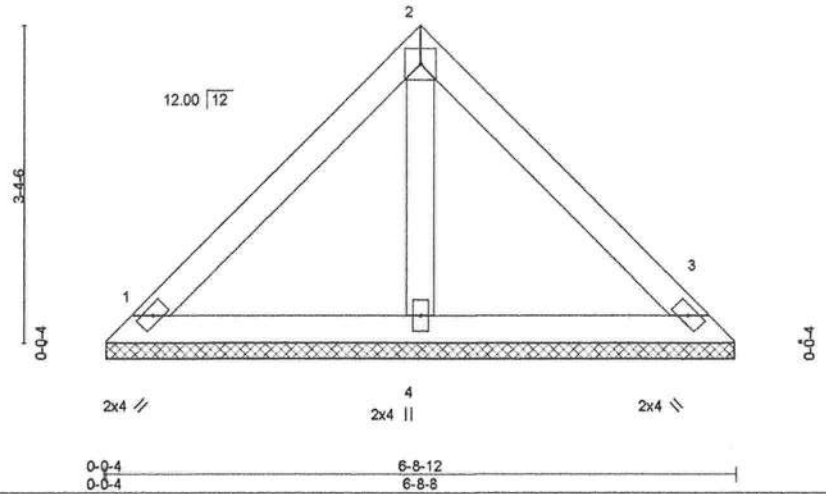
Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES.
4011201	V26	Valley	1	1	T34113896
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:52 2024 Page 1
ID:NfQKPk0vtjt52FdA3Ad5P4zC2NR-dhUELUazsk5AqtfuihdbPUwAonZnT5Po9CsJdDz8iyH

3-4-6 (3-4-6) | 6-8-12 (3-4-6)

4x4 =

Scale = 1:23.2



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 27 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. (size) 1=6-8-4, 3=6-8-4, 4=6-8-4
Max Horz 1=74(LC 9)
Max Uplift 1=-50(LC 13), 3=-50(LC 13), 4=-13(LC 12)
Max Grav 1=133(LC 1), 3=133(LC 1), 4=179(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 10,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	STEEDLEY RES. T34113897
4011201	V27	Valley	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Apr 25 2024 MiTek Industries, Inc. Fri Jun 7 09:42:53 2024 Page 1
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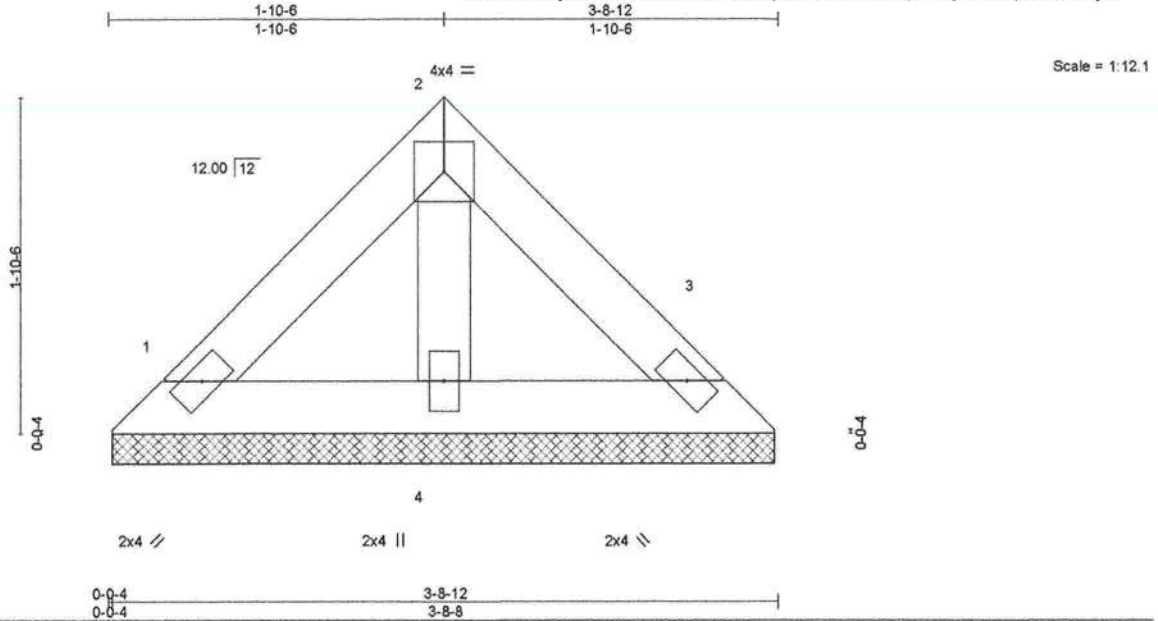

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 14 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-8-4, 3=3-8-4, 4=3-8-4
Max Horz 1=-37(LC 8)
Max Uplift 1=-25(LC 13), 3=-25(LC 13), 4=-6(LC 12)
Max Grav 1=67(LC 1), 3=67(LC 1), 4=90(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

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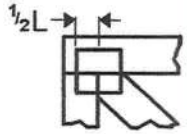
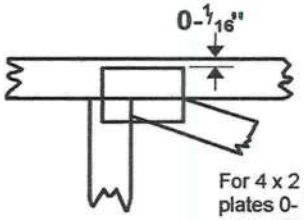
Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

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

* Plate location details available in MiTek 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.

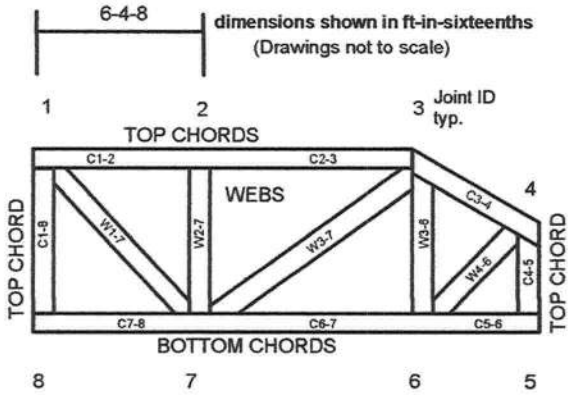
BEARING

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

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

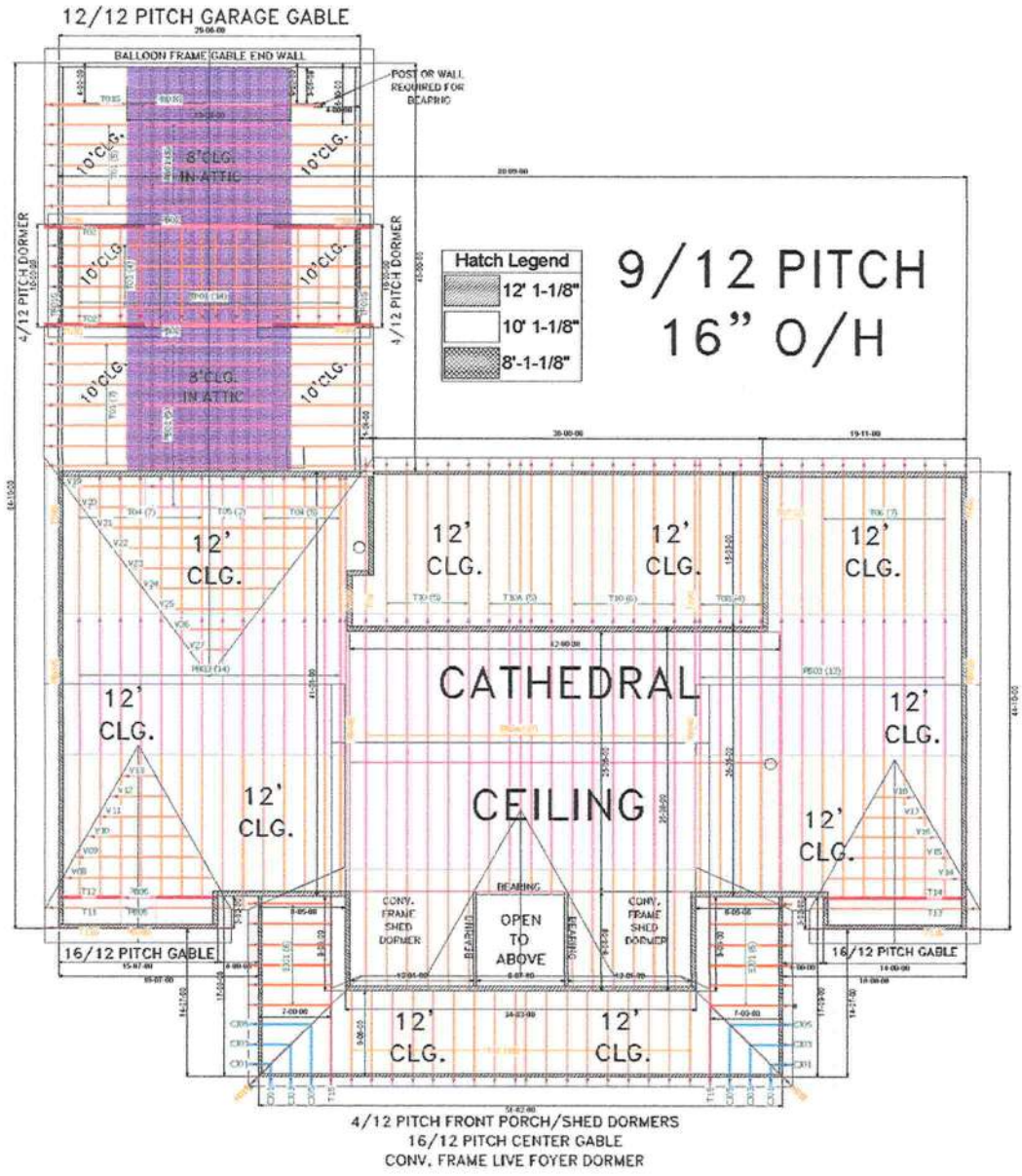
MiTek®

MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

General Safety Notes

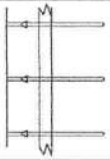
Failure to Follow Could Cause Property Damage or Personal Injury

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



MITEK PLATE APPROVAL #'S 2197.2–2197.4, BOISE EWP PRODUCT #'S LVL FL1644–R2, BCI JOISTS FL1392–R2

THE ARROW HEAD AT THE END OF THE TRUSS ON THE TRUSS PLACEMENT PLAN (LAYOUT) CORRESPONDS WITH THE LEFT SIDE OF THE INDIVIDUAL TRUSS DRAWING. USE THIS AS AN ORIENTATION GUIDE WHEN SETTING THE TRUSSES ON THE STRUCTURE.



General Notes

- Per ANSI/TPI 1-2002 all " Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer.
- Use Manufacturer's specifications for all hanger connections unless noted otherwise.
- Trusses are to be 24" o.c. U.N.O.
- All hangers are to be Simpson or equivalent U.N.O.
- Use 10d x 1 1/2" Nails in hanger connections to single ply girder trusses.
- Trusses are not designed to support brick U.N.O.
- Dimensions are Feet-Inches-Sixteenths

Notes:

No back charges will be accepted by Builders FirstSource unless approved in writing first. 260-335-4541

ACQ lumber is corrosive to truss plates. Any ACQ lumber that comes in contact with truss plates (i.e. nailed on kick) must have an approved barrier applied first.

Refer to BCSI-B1 Summary Sheet-Guide for handling, installing and Bracing of Metal Plate Connected Wood Truss prior to and during truss installation.

It is the responsibility of the Contractor to ensure of the proper orientation of the truss placement plans as to the construction documents and field conditions of the structure orientation. If a reversed or flipped layout is required, it will be supplied at no extra cost by Builders FirstSource.

It is the responsibility of the Contractor to make sure the placement of trusses are adjusted for plumbing drops, can lights, ect.., so the trusses do not interfere with those type of items.

All common framed roof or floor systems must be designed as to NOT impose any loads on the floor trusses below. The floor trusses have not been designed to carry any additional loads from above.

This truss placement plan was not created by an engineer, but rather by the Builders FirstSource staff and is solely to be used as an installation guide and does not require a seal. Complete truss engineering and analysis can be found on the truss design drawings which may be sealed by the truss design engineer.

Gable end trusses require continuous bottom chord bearing. Refer to local codes for wall framing requirements.

Although all attempts have been made to do so, trusses may not be designed symmetrically. Please refer to the individual truss drawings and truss placement plans for proper orientation and placement.

Builders FIRSTSOURCE

Lake City
PHONE: 386-755-6894
FAX: 386-755-7973

Jacksonville
PHONE: 904-772-6100
FAX: 904-772-1978

Tallahassee
PHONE: 850-576-5177

Builder	STEEDLEY RES.
Legal Address	TBD
Model	Custom

Date	Drawn By	Original Ref #
5-30-24	KLH	4011201
Floor 1 Job#	Floor 2 Job#	Roof Job #
N/A	N/A	4011201