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: 4925663 - SMITH RES.

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

Site Information:

Customer Info: CHARLES SMITH Project Name: Smith Res. Model: Custom
Lot/Block: 14 Subdivision: Cannon Creek
Address: TBD, TBD
City: Lake City, State: FL

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 8.8
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 40.0 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.

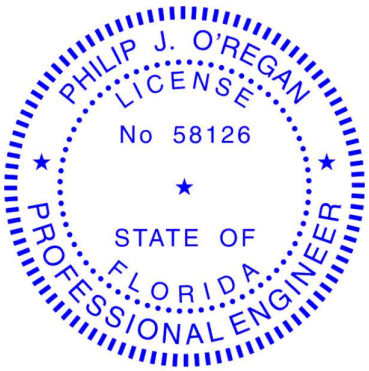
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T39067937	CJ01	11/4/25	15	T39067951	PB01	11/4/25
2	T39067938	CJ03	11/4/25	16	T39067952	PB02	11/4/25
3	T39067939	CJ03A	11/4/25	17	T39067953	PB03	11/4/25
4	T39067940	CJ05	11/4/25	18	T39067954	PB04	11/4/25
5	T39067941	CJ05A	11/4/25	19	T39067955	PB05	11/4/25
6	T39067942	EJ01	11/4/25	20	T39067956	PB06	11/4/25
7	T39067943	EJ02	11/4/25	21	T39067957	PB07	11/4/25
8	T39067944	EJ03	11/4/25	22	T39067958	PB08	11/4/25
9	T39067945	EJ04	11/4/25	23	T39067959	PB09	11/4/25
10	T39067946	EJ05	11/4/25	24	T39067960	T01	11/4/25
11	T39067947	EJ06	11/4/25	25	T39067961	T02	11/4/25
12	T39067948	HJ08	11/4/25	26	T39067962	T03	11/4/25
13	T39067949	HJ10	11/4/25	27	T39067963	T04	11/4/25
14	T39067950	HJ10A	11/4/25	28	T39067964	T05	11/4/25

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, 2027.

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:

November 4,2025

RE: 4925663 - SMITH RES.

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

Site Information:

Customer Info: CHARLES SMITH Project Name: Smith Res. Model: Custom
Lot/Block: 14 Subdivision: Cannon Creek
Address: TBD, TBD
City: Lake City, State: FL

No.	Seal#	Truss Name	Date
29	T39067965	T06	11/4/25
30	T39067966	T07	11/4/25
31	T39067967	T08	11/4/25
32	T39067968	T08G	11/4/25
33	T39067969	T09	11/4/25
34	T39067970	T10	11/4/25
35	T39067971	T11	11/4/25
36	T39067972	T12	11/4/25
37	T39067973	T13	11/4/25
38	T39067974	T14	11/4/25
39	T39067975	T15	11/4/25
40	T39067976	T16	11/4/25
41	T39067977	T17	11/4/25
42	T39067978	T18	11/4/25
43	T39067979	T19	11/4/25
44	T39067980	T20	11/4/25
45	T39067981	T21	11/4/25
46	T39067982	T22	11/4/25
47	T39067983	T23	11/4/25
48	T39067984	T24	11/4/25
49	T39067985	T25	11/4/25
50	T39067986	T26	11/4/25
51	T39067987	T27	11/4/25
52	T39067988	T28	11/4/25
53	T39067989	T29	11/4/25
54	T39067990	T30	11/4/25
55	T39067991	T31	11/4/25
56	T39067992	T32	11/4/25
57	T39067993	T32G	11/4/25
58	T39067994	T33	11/4/25
59	T39067995	T33G	11/4/25
60	T39067996	T34	11/4/25
61	T39067997	T34G	11/4/25
62	T39067998	T35	11/4/25

Job	Truss	Truss Type	Qty	Ply	SMITH RES.
4925663	CJ01	Jack-Open	8	1	T39067937
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:05 2025 Page 1
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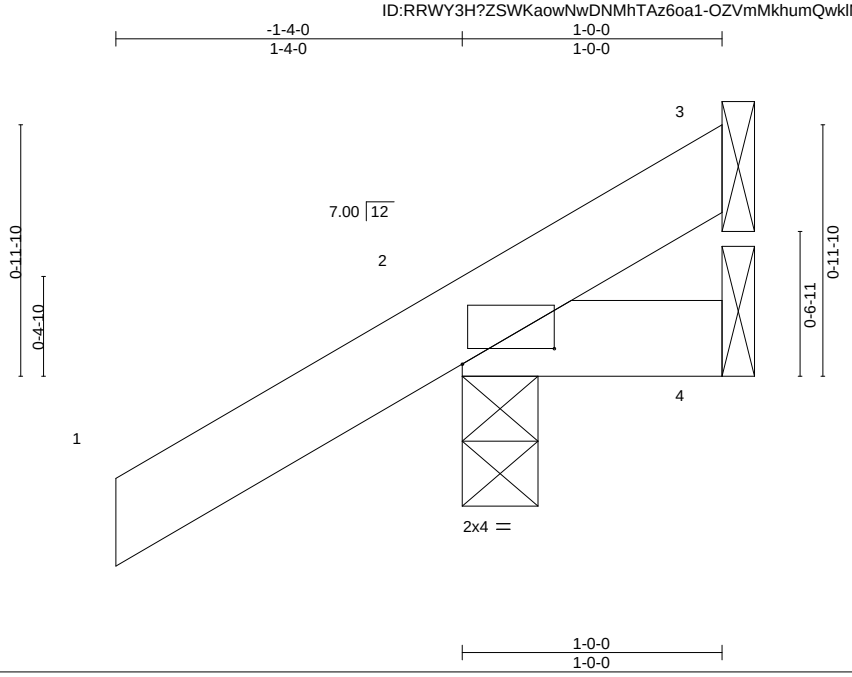

Plate Offsets (X,Y)-- [2:0-4-4,0-0-12]

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	0.14	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 6 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=48(LC 12)
Max Uplift 3=-4(LC 9), 2=-67(LC 12), 4=-18(LC 19)
Max Grav 3=5(LC 16), 2=174(LC 1), 4=16(LC 16)

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 4 lb uplift at joint 3, 67 lb uplift at joint 2 and 18 lb uplift at joint 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:

November 4,2025

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

Job	Truss	Truss Type	Qty	Ply	SMITH RES.
4925663	CJ03	Jack-Open	6	1	T39067938
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:06 2025 Page 1
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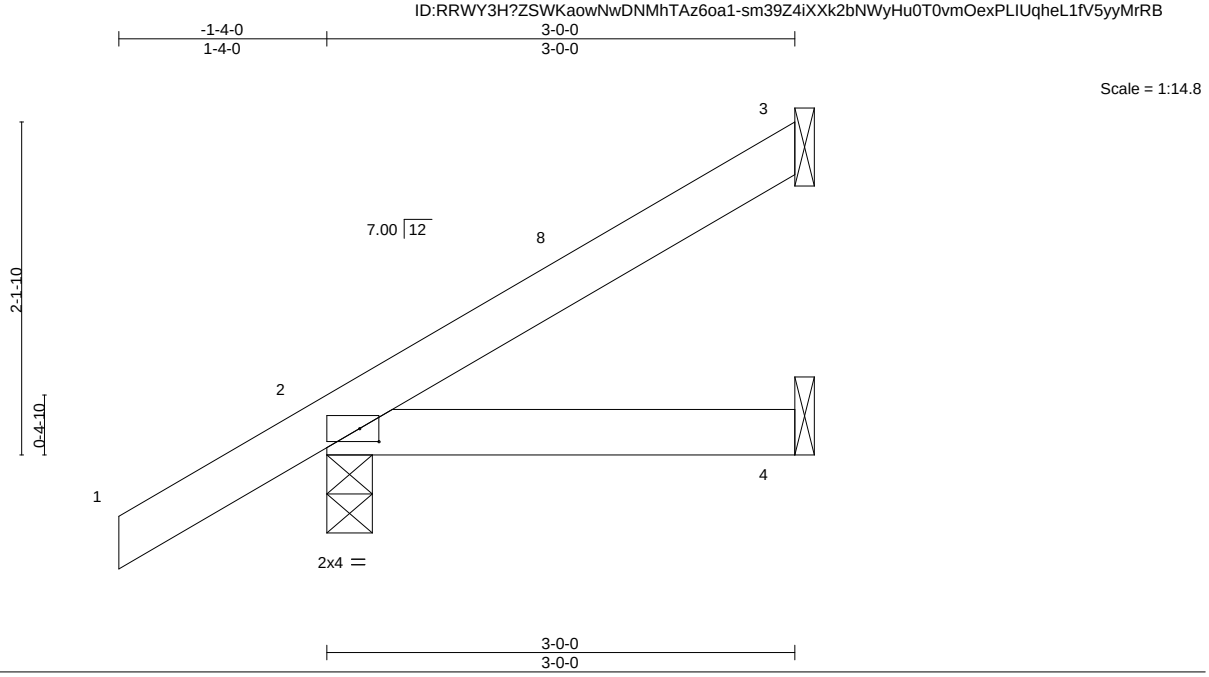

Plate Offsets (X,Y)-- [2:0-1-8,0-1-0]

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	0.14	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	10.0	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: 12 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=92(LC 12)
Max Uplift 3=-47(LC 12), 2=-58(LC 12), 4=-19(LC 9)
Max Grav 3=70(LC 19), 2=216(LC 1), 4=52(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 -1-4-0 to 1-8-0, Zone1 1-8-0 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 47 lb uplift at joint 3, 58 lb uplift at joint 2 and 19 lb uplift at joint 4.

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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:

November 4,2025

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

Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067939
4925663	CJ03A	Jack-Open	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:06 2025 Page 1
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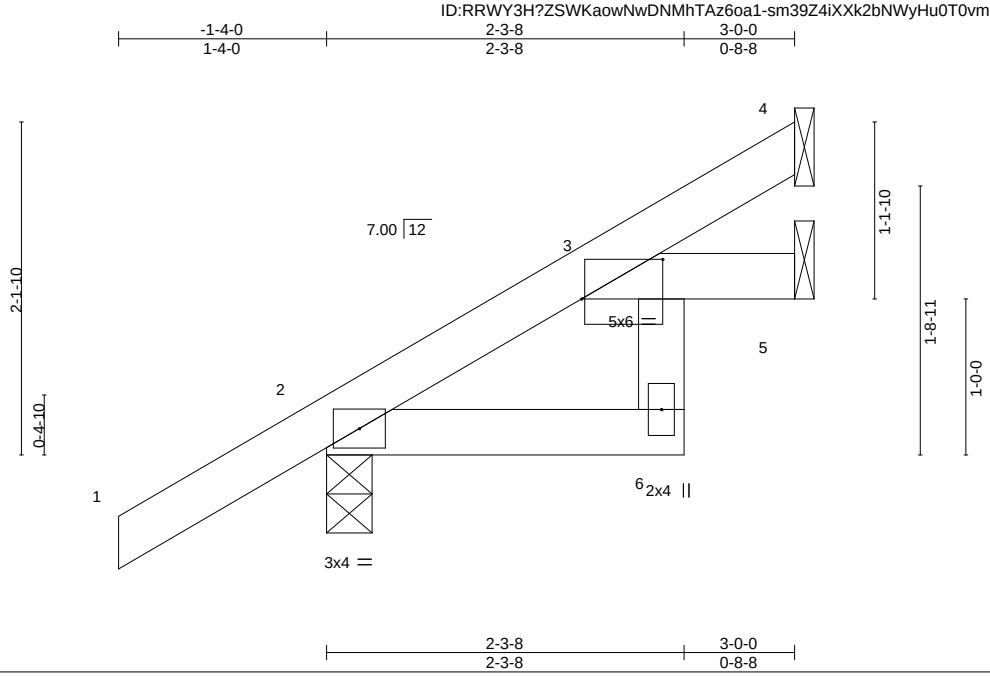

Plate Offsets (X,Y)-- [3:0-6-4,0-3-1]

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	0.14	Vert(LL)	0.01	6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	-0.01	6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MR							Weight: 14 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-6: 2x4 SP No.3

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

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=92(LC 12)
Max Uplift 4=-31(LC 12), 2=-57(LC 12), 5=-14(LC 12)
Max Grav 4=61(LC 19), 2=217(LC 1), 5=51(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 -1-4-0 to 1-10-7, Zone1 1-10-7 to 2-11-4 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) 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 31 lb uplift at joint 4, 57 lb uplift at joint 2 and 14 lb uplift at joint 5.

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:

November 4,2025

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

Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067940
4925663	CJ05	Jack-Open	6	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:06 2025 Page 1
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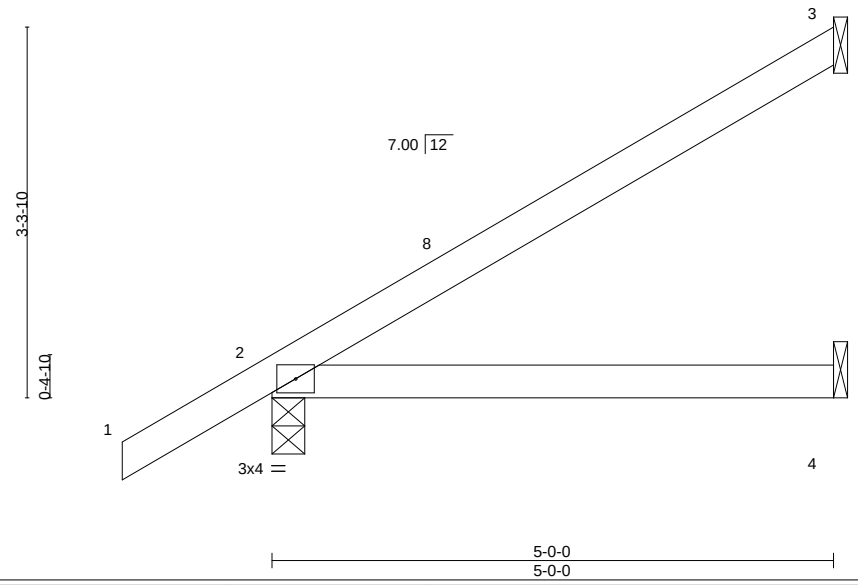

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	0.06	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.06	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 19 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=137(LC 12)
Max Uplift 3=-85(LC 12), 2=-65(LC 12), 4=-34(LC 9)
Max Grav 3=130(LC 19), 2=288(LC 1), 4=91(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 -1-4-0 to 1-8-0, Zone1 1-8-0 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 85 lb uplift at joint 3, 65 lb uplift at joint 2 and 34 lb uplift at joint 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:

November 4,2025

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

Job	Truss	Truss Type	Qty	Ply	SMITH RES.
4925663	CJ05A	Jack-Open	2	1	T39067941
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:07 2025 Page 1
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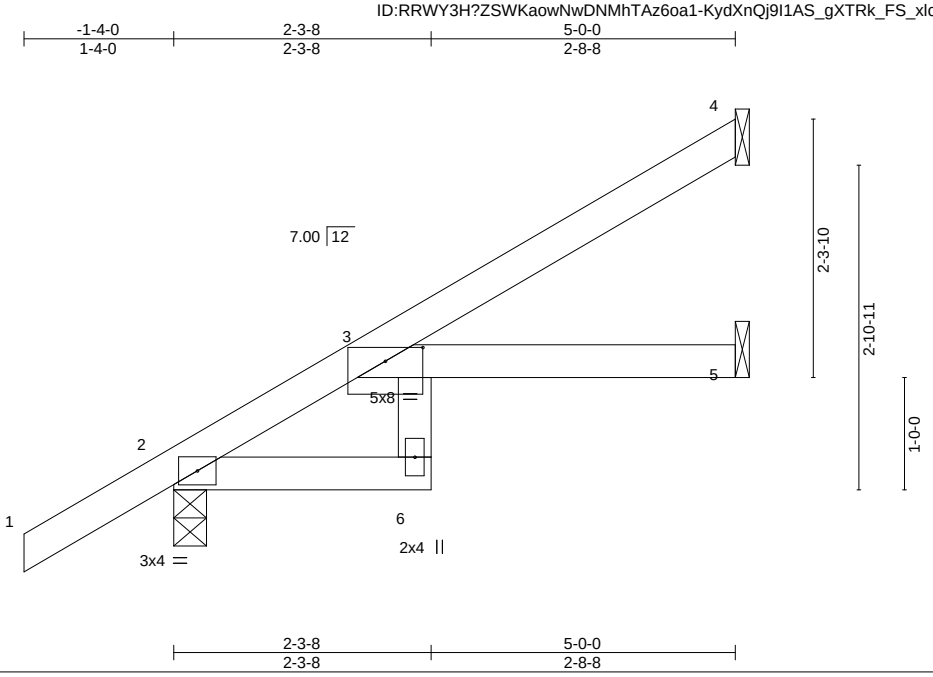

Plate Offsets (X,Y)-- [3:0-4-0,0-1-7]

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	0.40	Vert(LL)	0.06	6	>960	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.09	6	>679	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.05	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MR							Weight: 21 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-6: 2x4 SP No.3

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

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=137(LC 12)
Max Uplift 4=-70(LC 12), 2=-64(LC 12), 5=-17(LC 12)
Max Grav 4=121(LC 19), 2=292(LC 1), 5=89(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 -1-4-0 to 1-10-7, Zone1 1-10-7 to 4-11-4 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) 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 70 lb uplift at joint 4, 64 lb uplift at joint 2 and 17 lb uplift at joint 5.

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:

November 4,2025

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

Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067942
4925663	EJ01	Jack-Partial	24	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:07 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-KydXnQj9I1AS_gXTRk_FS_xhzpa9DHxnZhO2eOyMrRA

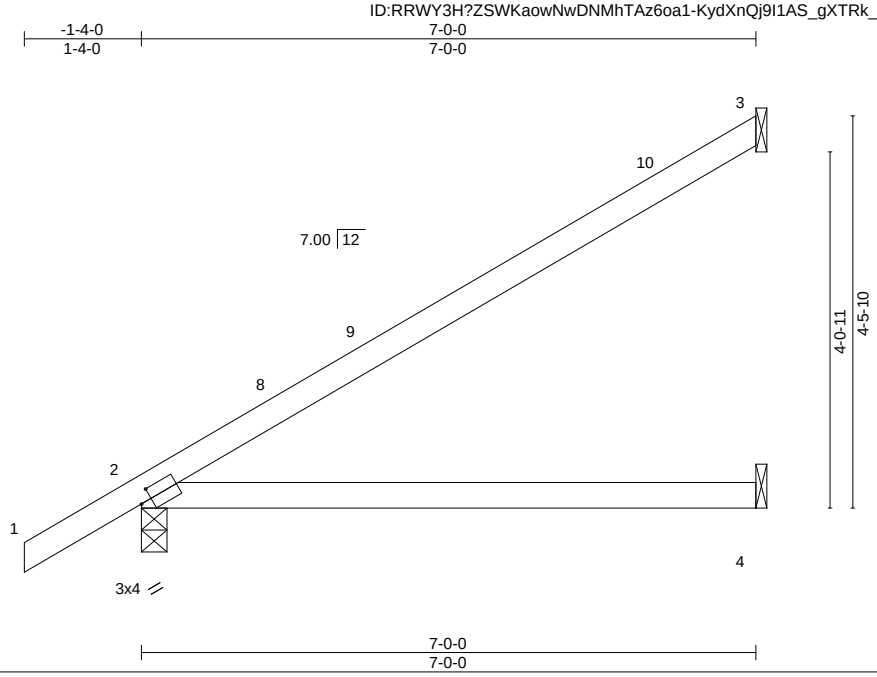

Plate Offsets (X,Y)-- [2:0-1-8,0-1-8]

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	0.70	Vert(LL)	0.12	4-7	>670	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.23	4-7	>356	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: 25 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=176(LC 12)
Max Uplift 3=-109(LC 12), 2=-77(LC 12), 4=-4(LC 12)
Max Grav 3=193(LC 19), 2=365(LC 1), 4=130(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 -1-4-0 to 1-8-0, Zone1 1-8-0 to 6-11-4 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) 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 109 lb uplift at joint 3, 77 lb uplift at joint 2 and 4 lb uplift at joint 4.

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Date:

November 4,2025

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Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067943
4925663	EJ02	Jack-Closed Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:08 2025 Page 1
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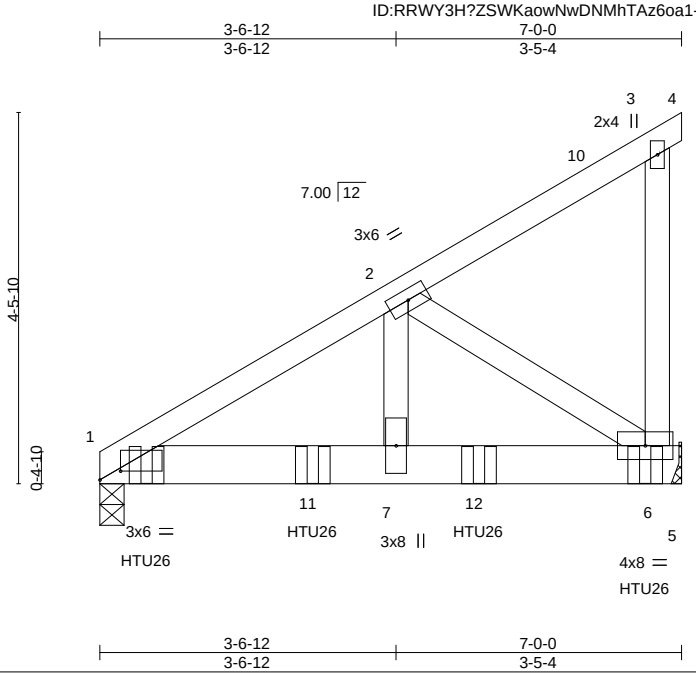

Plate Offsets (X,Y)-- [1:0-3-0,0-1-4]

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	0.23	Vert(LL)	-0.02	7-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.04	7-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 42 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 5-1-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 6=Mechanical
Max Horz 1=150(LC 29)
Max Uplift 1=-261(LC 8), 6=-383(LC 8)
Max Grav 1=1156(LC 1), 6=1332(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1183/240
BOT CHORD 1-7=-312/1012, 6-7=-312/1012
WEBS 2-7=-224/1000, 2-6=-1199/368

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; 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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 261 lb uplift at joint 1 and 383 lb uplift at joint 6.
8) Use Simpson Strong-Tie HTU26 (10-10d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-6-12 from the left end to 6-6-12 to connect truss(es) to front face of bottom chord.
9) Fill all nail holes where hanger is in contact with lumber.
10) 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: 1-3=-60, 3-4=-20, 1-5=-20
Concentrated Loads (lb)
Vert: 6=-488(F) 9=-487(F) 11=-482(F) 12=-482(F)

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Date:

November 4,2025

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Job	Truss	Truss Type	Qty	Ply	SMITH RES.
4925663	EJ03	Jack-Partial	5	1	T39067944

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:08 2025 Page 1

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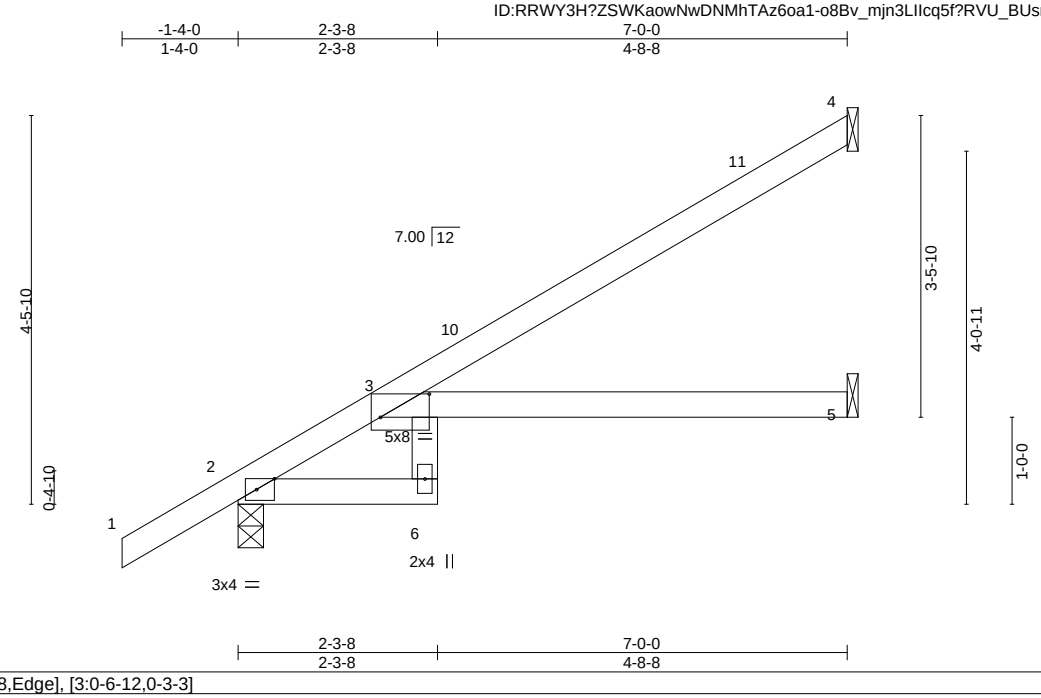

Plate Offsets (X,Y)-- [2:0-2-8,Edge], [3:0-6-12,0-3-3]

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	0.69	Vert(LL)	0.18	3-5	>460	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.29	3-5	>287	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.16	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MR							Weight: 27 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-6: 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.

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=176(LC 12)
Max Uplift 4=-95(LC 12), 2=-76(LC 12), 5=-18(LC 12)
Max Grav 4=180(LC 19), 2=369(LC 1), 5=127(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 -1-4-0 to 1-10-7, Zone1 1-10-7 to 6-11-4 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) 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 95 lb uplift at joint 4, 76 lb uplift at joint 2 and 18 lb uplift at joint 5.

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November 4,2025

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Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067945
4925663	EJ04	Jack-Closed Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:09 2025 Page 1
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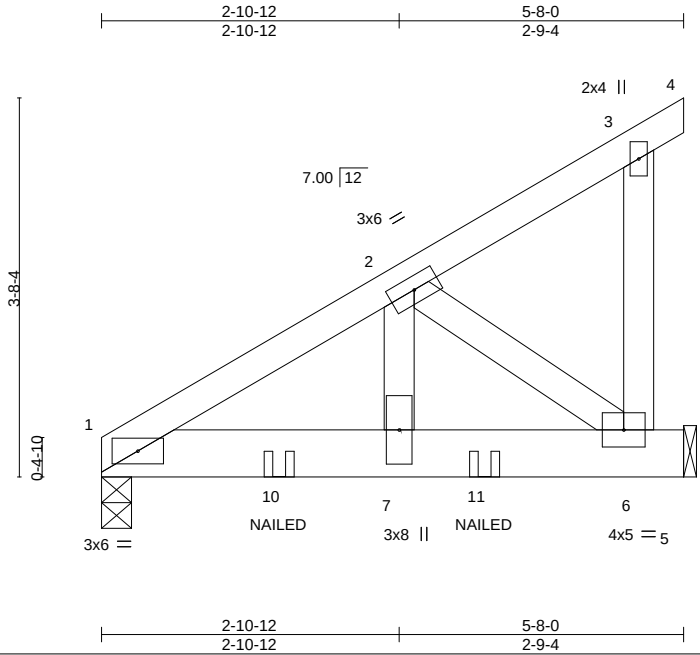

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.08	Vert(LL)	-0.01	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.01	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 33 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 5-8-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 5=Mechanical
Max Horz 1=126(LC 29)
Max Uplift 1=-170(LC 8), 5=-236(LC 8)
Max Grav 1=436(LC 1), 5=429(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-581/224
BOT CHORD 1-7=-281/488, 6-7=-281/488
WEBS 2-7=-260/469, 2-6=-601/346

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; porch left and right exposed; 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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 170 lb uplift at joint 1 and 236 lb uplift at joint 5.
8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
9) 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: 1-3=-60, 3-4=-60, 1-5=-20
Concentrated Loads (lb)
Vert: 10=-207(B) 11=-207(B)

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November 4,2025

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Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067946
4925663	EJ05	Jack-Open	5	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:09 2025 Page 1
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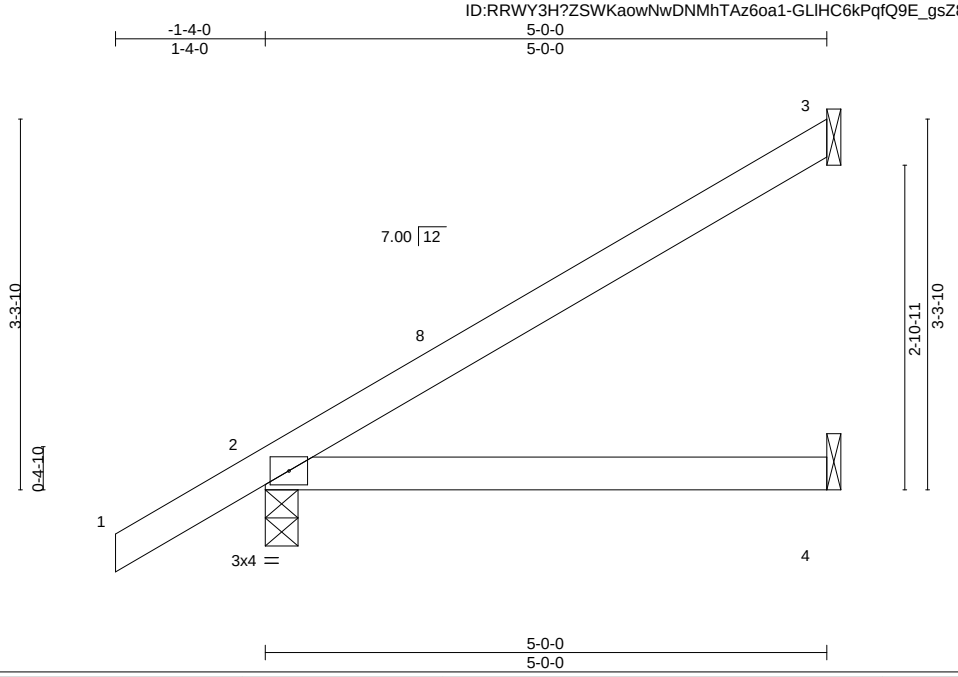

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	0.06	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.06	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 19 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=137(LC 12)
Max Uplift 3=-85(LC 12), 2=-65(LC 12), 4=-34(LC 9)
Max Grav 3=130(LC 19), 2=288(LC 1), 4=91(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 -1-4-0 to 1-8-0, Zone1 1-8-0 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 85 lb uplift at joint 3, 65 lb uplift at joint 2 and 34 lb uplift at joint 4.

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Job	Truss	Truss Type	Qty	Ply	SMITH RES.
4925663	EJ06	Jack-Open Girder	1	1	T39067947

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:10 2025 Page 1
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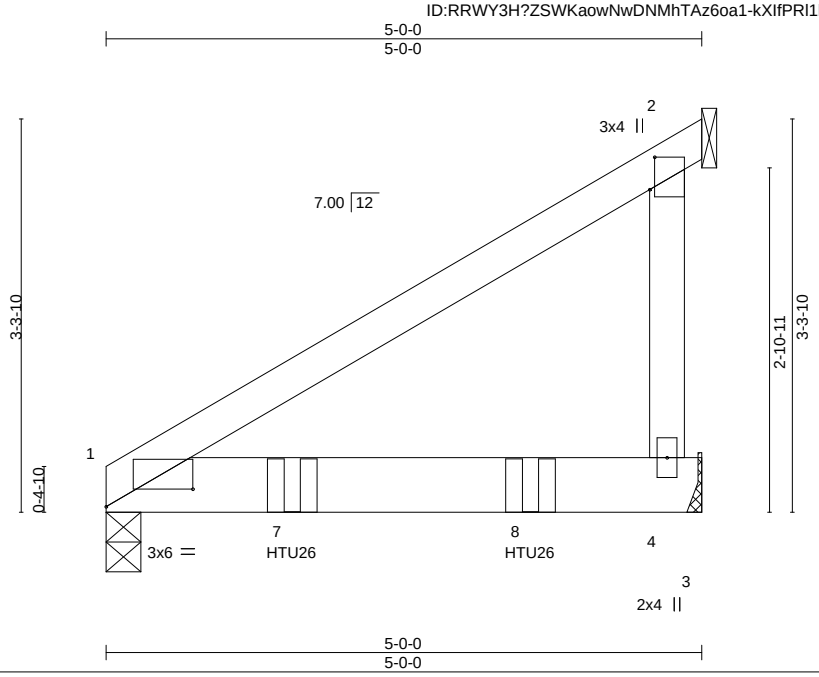

Plate Offsets (X,Y)-- [1:0-8-12,0-1-12], [2:0-3-4,0-0-8]

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	0.42	Vert(LL)	-0.05	4-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.09	4-6	>624	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 24 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 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 4=Mechanical, 2=Mechanical
Max Horz 1=106(LC 8)
Max Uplift 1=-141(LC 5), 4=-148(LC 5), 2=-83(LC 8)
Max Grav 1=564(LC 1), 4=507(LC 1), 2=136(LC 1)

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; 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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 1, 148 lb uplift at joint 4 and 83 lb uplift at joint 2.
8) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
9) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-6-12 from the left end to 3-6-12 to connect truss(es) to front face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.
11) 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: 1-2=-60, 1-3=-20
Concentrated Loads (lb)
Vert: 7=-412(F) 8=-412(F)

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Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067948
4925663	HJ08	Diagonal Hip Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:10 2025 Page 1
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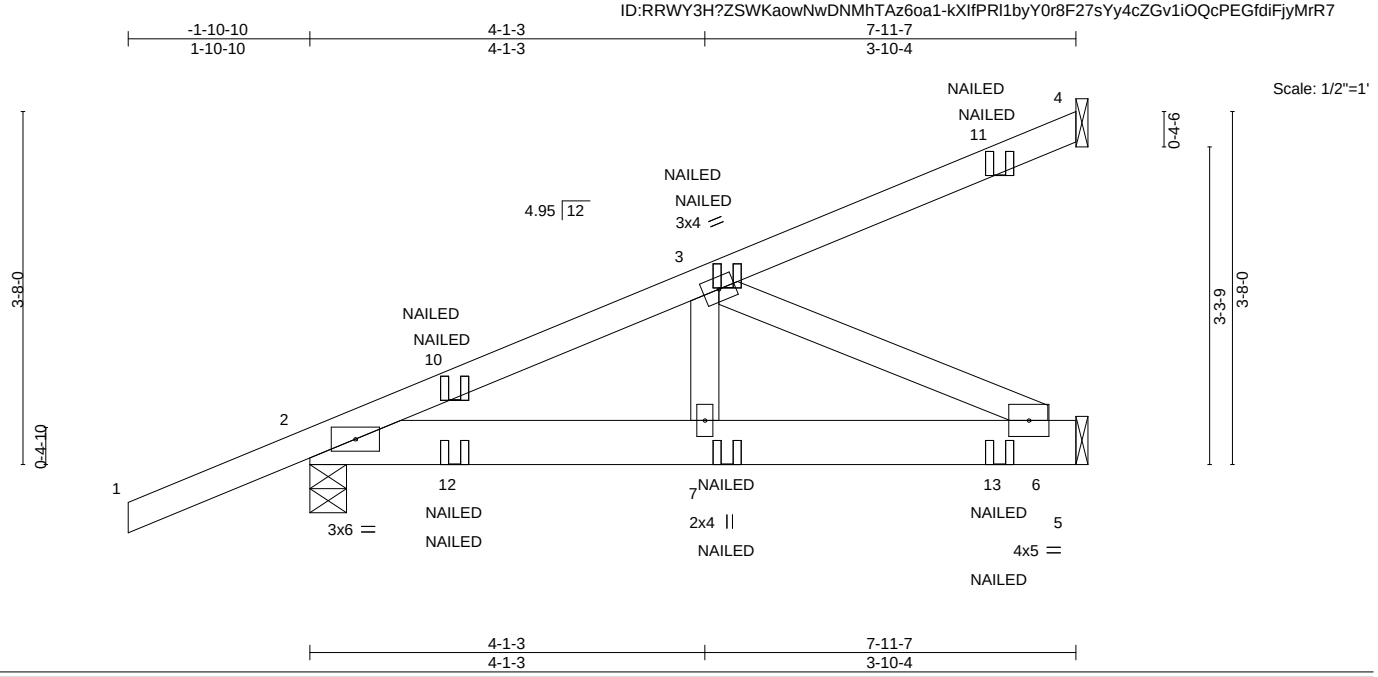

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	0.01	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	-0.02	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.15	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 42 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=151(LC 8)
Max Uplift 4=-137(LC 8), 2=-231(LC 4), 5=-187(LC 8)
Max Grav 4=189(LC 1), 2=371(LC 1), 5=303(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-505/251
BOT CHORD 2-7=-295/411, 6-7=-295/411
WEBS 3-6=-455/327

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 137 lb uplift at joint 4, 231 lb uplift at joint 2 and 187 lb uplift at joint 5.
7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
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=-60, 2-5=-20
Concentrated Loads (lb)
Vert: 7=-9(F=-4, B=-4) 10=116(F=58, B=58) 11=-123(F=-62, B=-62) 13=-79(F=-39, B=-39)

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

November 4,2025

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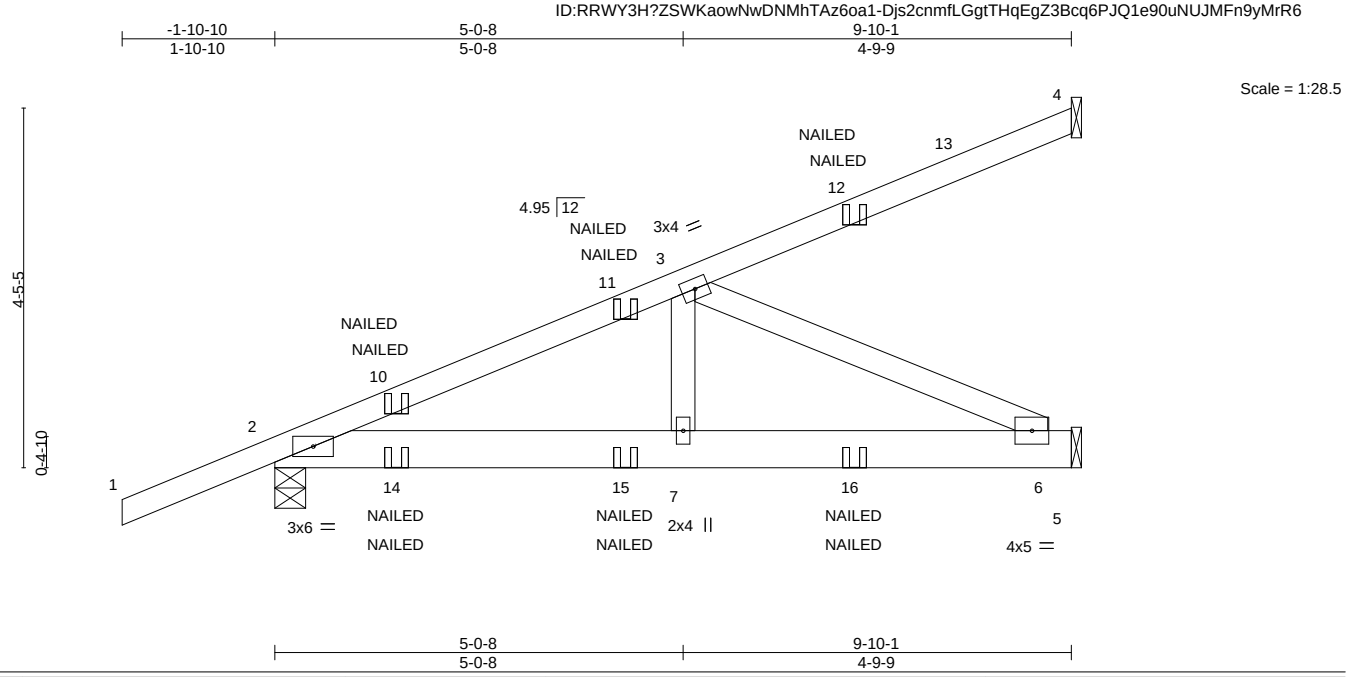
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067949
4925663	HJ10	Diagonal Hip Girder	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:11 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-Djs2cnmfLGgtTHqEgZ3Bcq6PJQ1e90uNUJMFn9yMrR6



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	0.49	Vert(LL)	0.02	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.03	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.32	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 52 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=175(LC 8)
Max Uplift 4=-84(LC 8), 2=-254(LC 8), 5=-202(LC 8)
Max Grav 4=145(LC 1), 2=461(LC 1), 5=329(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-705/360
BOT CHORD 2-7=-422/591, 6-7=-422/591
WEBS 3-7=-103/291, 3-6=-651/465

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; 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 84 lb uplift at joint 4, 254 lb uplift at joint 2 and 202 lb uplift at joint 5.
7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
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=-60, 2-5=-20
Concentrated Loads (lb)
Vert: 10=116(F=58, B=58) 12=-82(F=-41, B=-41) 15=-9(F=-4, B=-4) 16=-65(F=-33, B=-33)

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Date:

November 4,2025

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067950
4925663	HJ10A	Diagonal Hip Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:12 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-hwQQq7nH6aok5RPREHaQ91eW7qE?uT5Xjz6pJbyMrR5

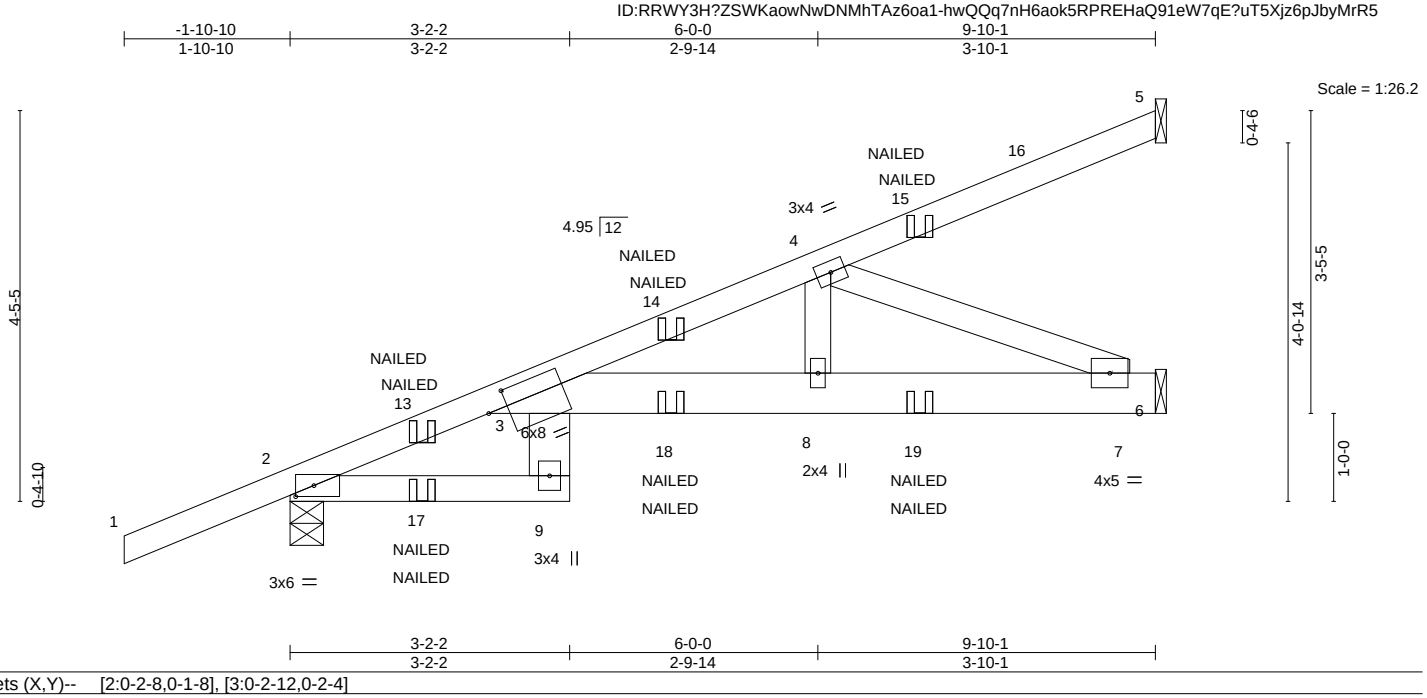

Plate Offsets (X,Y)-- [2:0-2-8,0-1-8], [3:0-2-12,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	0.25	9	>470	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.30	9	>389	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.14	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 50 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
BOT CHORD 2x6 SP No.2 *Except*
2-9: 2x4 SP No.2
WEBS 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 9-5-9 oc bracing.

REACTIONS. (size) 5=Mechanical, 2=0-4-9, 6=Mechanical
Max Horz 2=175(LC 8)
Max Uplift 5=-50(LC 8), 2=-226(LC 8), 6=-184(LC 8)
Max Grav 5=98(LC 1), 2=480(LC 1), 6=402(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-11=-312/67, 3-4=-1078/444
BOT CHORD 3-8=-502/952, 7-8=-506/959
WEBS 4-8=-173/426, 4-7=-1039/548

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; 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 50 lb uplift at joint 5, 226 lb uplift at joint 2 and 184 lb uplift at joint 6.
7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
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: 1-3=-60, 3-5=-60, 9-10=-20, 3-6=-20
Concentrated Loads (lb)
Vert: 13=116(F=58, B=58) 15=-58(F=-29, B=-29) 18=-35(F=-18, B=-18) 19=-93(F=-47, B=-47)

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

November 4,2025

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067951
4925663	PB01	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:12 2025 Page 1
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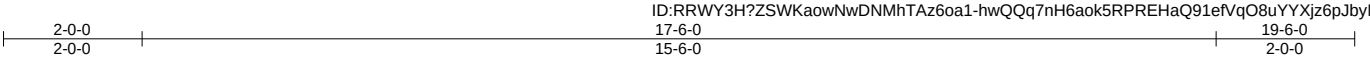

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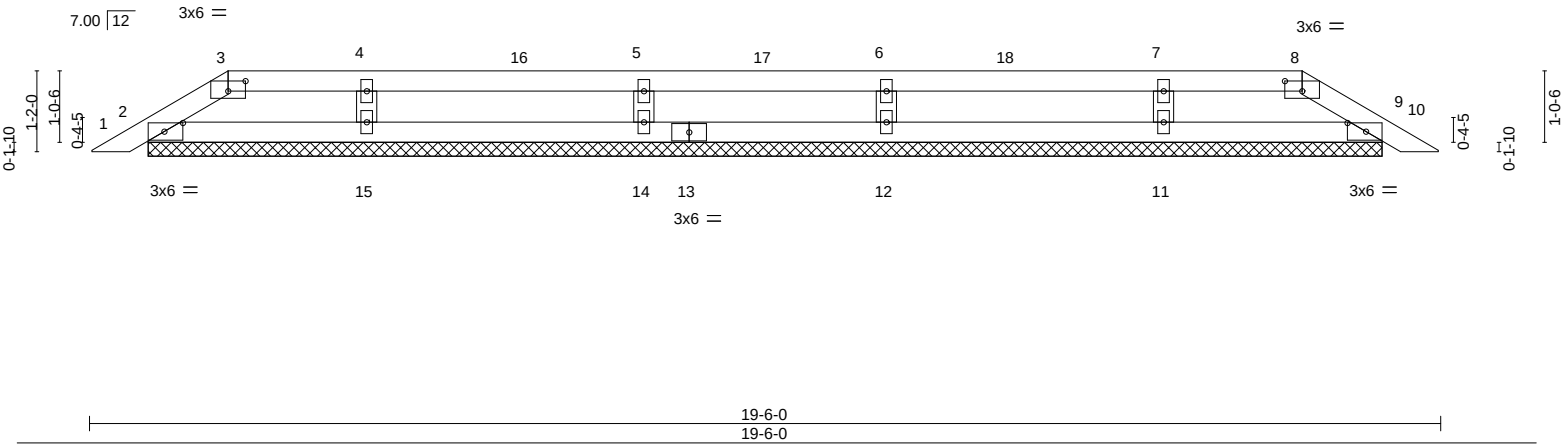

Plate Offsets (X,Y)-- [2:0-3-3,0-1-8], [3:0-3-0,0-1-12], [8:0-3-0,0-1-12], [9:0-3-3,0-1-8]

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	9	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	0.00	10	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 59 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 17-9-11.
(lb) - Max Horz 2=25(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 11, 12, 15, 14, 9
Max Grav All reactions 250 lb or less at joint(s) 2, 9 except 11=304(LC 26), 12=301(LC 25), 15=304(LC 25), 14=301(LC 26)

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 0-3-11 to 2-0-0, Zone2 2-0-0 to 6-2-15, Zone1 6-2-15 to 17-6-0, Zone3 17-6-0 to 19-2-5 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 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, 11, 12, 15, 14, 9.
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:

November 4,2025

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Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067952
4925663	PB02	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:13 2025 Page 1
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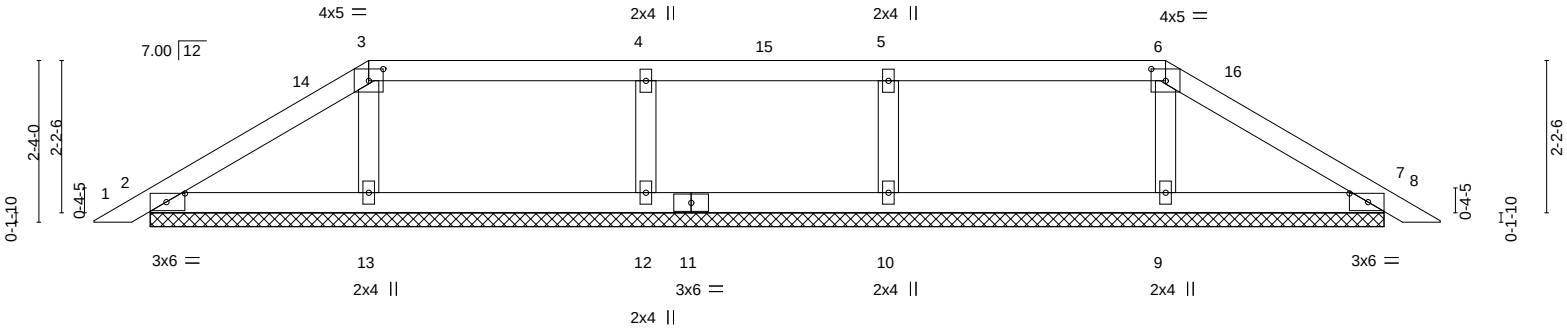
4-0-0 | 11-6-0 | 4-0-0

Scale = 1:33.3



19-6-0
19-6-0

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

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	8	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	0.00	8	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 67 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 17-9-11.
(lb) - Max Horz 2=54(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 9, 13, 7 except 10=-101(LC 9), 12=-101(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 2, 7 except 9=292(LC 26), 10=313(LC 25), 13=292(LC 25), 12=313(LC 26)

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 0-3-11 to 3-3-11, Zone1 3-3-11 to 4-0-0, Zone2 4-0-0 to 8-0-0, Zone1 8-0-0 to 15-6-0, Zone3 15-6-0 to 19-2-5 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) 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.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9, 13, 7 except (jt=lb) 10=101, 12=101.
11) 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:

November 4,2025

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067953
4925663	PB03	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:13 2025 Page 1
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6-0-0 13-6-0 19-6-0
6-0-0 7-6-0 6-0-0

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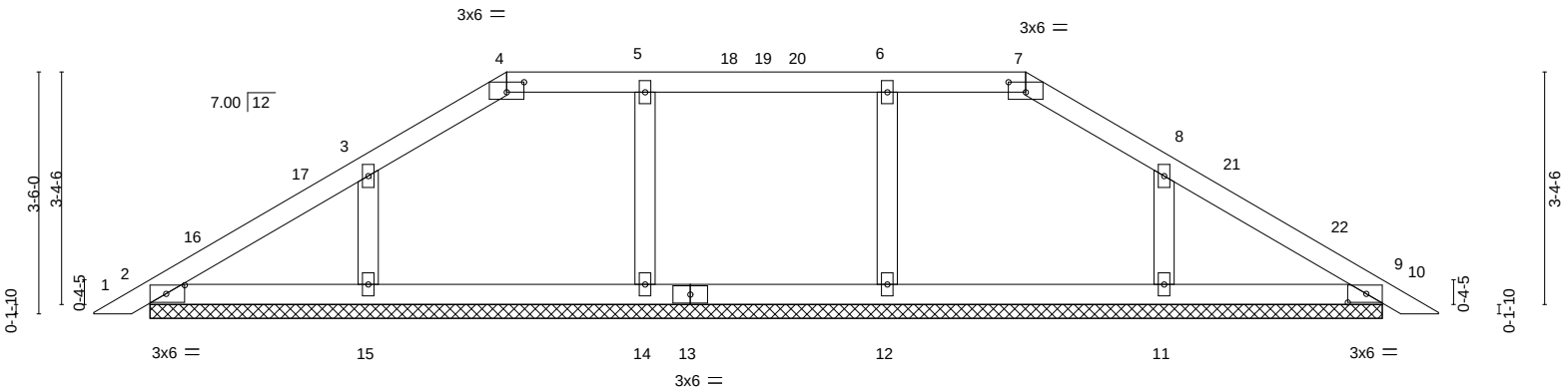

19-6-0
19-6-0

Plate Offsets (X,Y)-- [2:0-3-3,0-1-8], [4:0-3-0,0-1-12], [7:0-3-0,0-1-12], [9:0-3-3,0-1-8]

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	10	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	0.00	10	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 71 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 17-9-11.
(lb) - Max Horz 2=-83(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 14, 9 except 11=-123(LC 13), 15=-125(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 9 except 11=298(LC 20), 12=279(LC 26), 15=301(LC 19), 14=279(LC 25)

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 0-3-11 to 3-3-11, Zone1 3-3-11 to 6-0-0, Zone2 6-0-0 to 10-2-15, Zone1 10-2-15 to 13-6-0, Zone2 13-6-0 to 17-8-15, Zone1 17-8-15 to 19-2-5 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 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, 12, 14, 9 except (jt=lb) 11=123, 15=125.
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
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 4,2025

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067954
4925663	PB04	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:14 2025 Page 1
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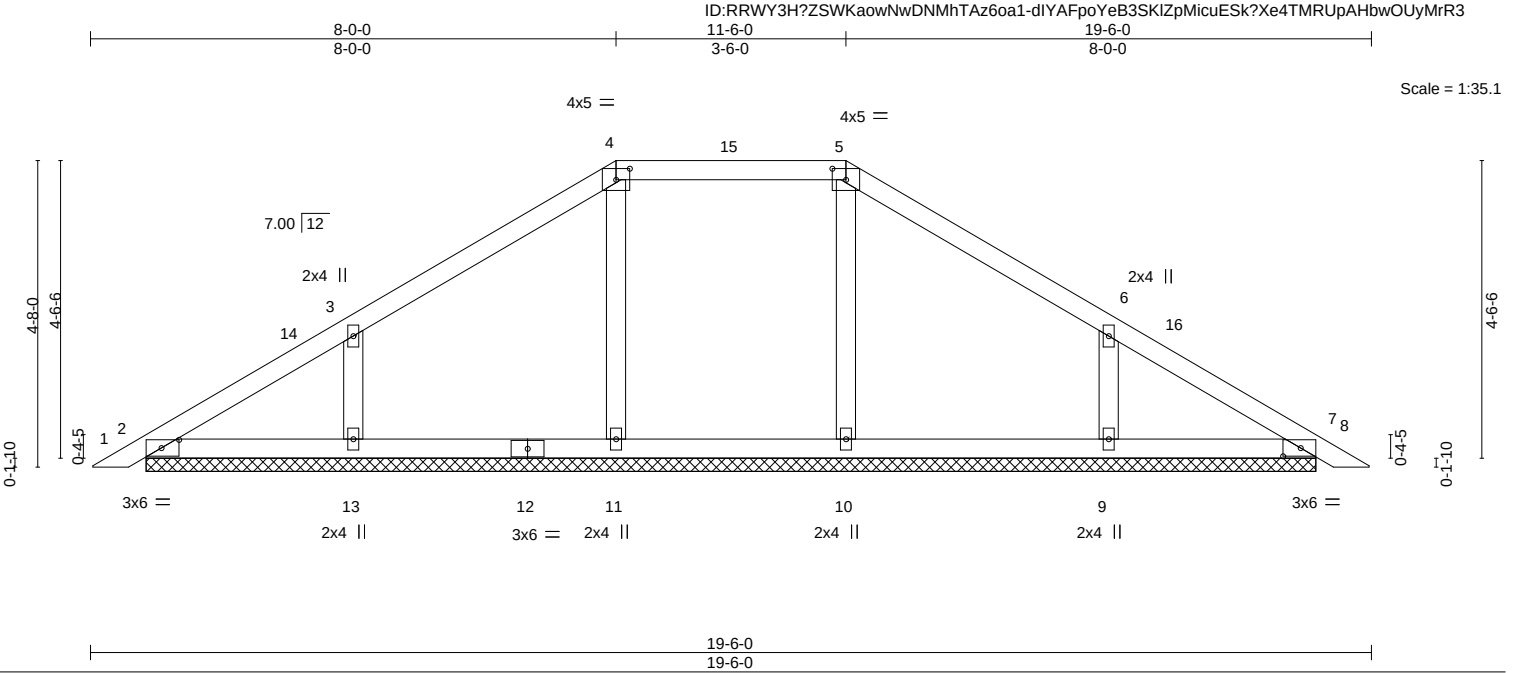

Plate Offsets (X,Y)-- [2:0-3-3,0-1-8], [4:0-2-8,0-2-1], [5:0-2-8,0-2-1], [7:0-3-3,0-1-8]

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	0.17	Vert(LL)	0.00	8	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	0.00	8	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	7	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 17-9-11.
(lb) - Max Horz 2=-111(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 11, 7 except 9=-161(LC 13), 13=-161(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 7 except 9=410(LC 20), 10=331(LC 28), 13=410(LC 19), 11=331(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 6-9=-270/181, 3-13=-271/181

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 0-3-11 to 3-3-11, Zone1 3-3-11 to 8-0-0, Zone3 8-0-0 to 11-6-0, Zone2 11-6-0 to 15-6-0, Zone1 15-6-0 to 19-2-5 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) 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, 10, 11, 7 except (jt=lb) 9=161, 13=161.
11) 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:

November 4,2025

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	SMITH RES.
4925663	PB05	Piggyback	1	1	T39067955
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:15 2025 Page 1
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5-8-0

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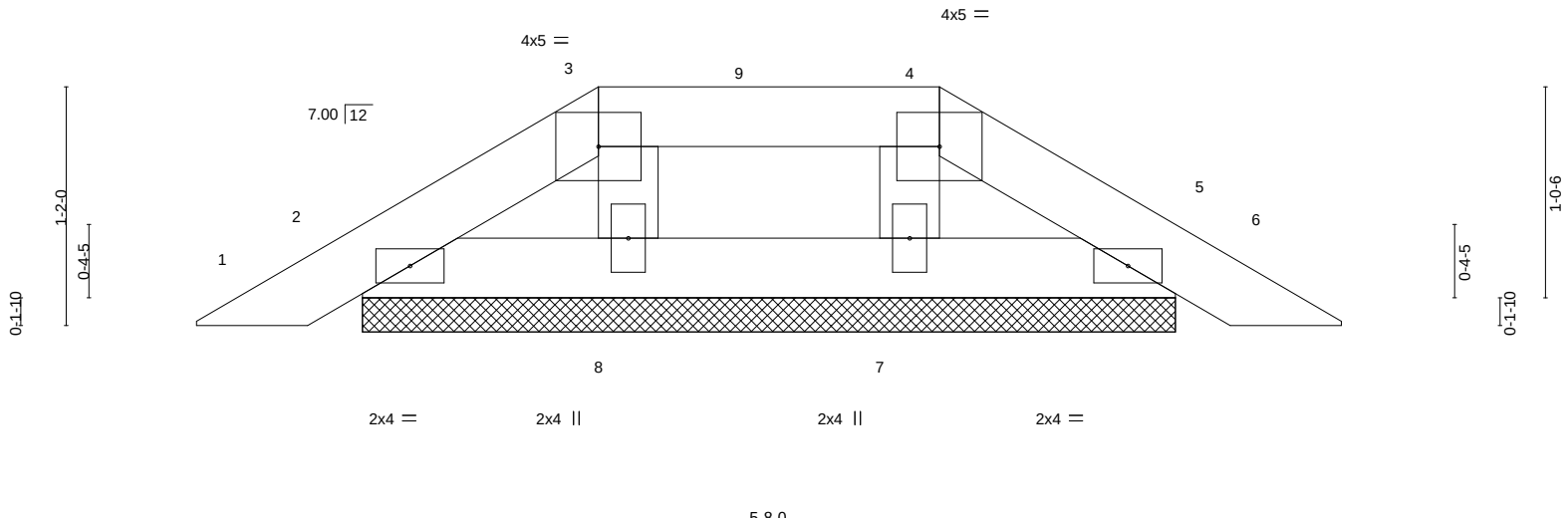

5-8-0
5-8-0

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	0.04	Vert(LL)	-0.00	5	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.01	Vert(CT)	-0.00	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	5	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
WEBS 2x4 SP No.3

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

REACTIONS. All bearings 3-11-11.
(lb) - Max Horz 2=-25(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 8, 7
Max Grav All reactions 250 lb or less at joint(s) 2, 5, 8, 7

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) Provide adequate drainage to prevent water ponding.
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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 8, 7.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Date:

November 4,2025

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Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067956
4925663	PB06	Piggyback	6	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:15 2025 Page 1
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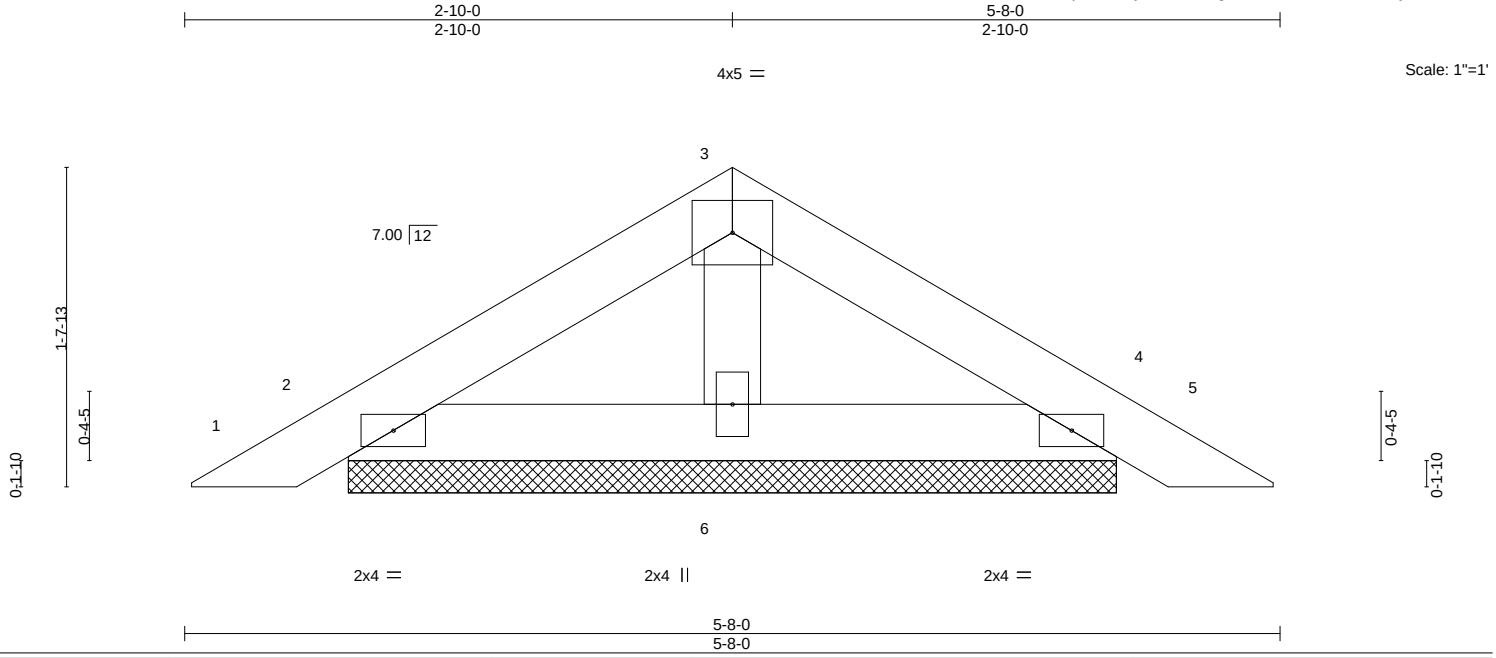

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.07	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	0.00	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		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 5-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=3-11-11, 4=3-11-11, 6=3-11-11
Max Horz 2=36(LC 11)
Max Uplift 2=-44(LC 12), 4=-48(LC 13), 6=-15(LC 12)
Max Grav 2=119(LC 1), 4=119(LC 1), 6=144(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) 2, 4, 6.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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November 4,2025

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Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067957
4925663	PB07	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:16 2025 Page 1
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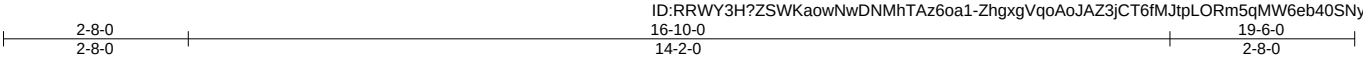

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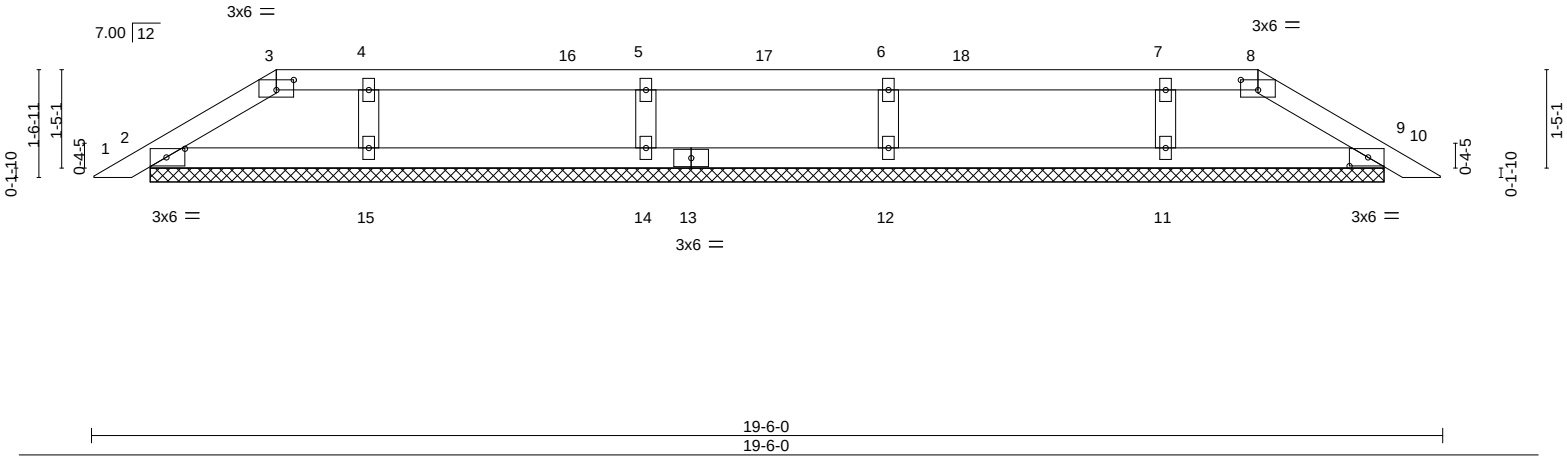

Plate Offsets (X,Y)-- [2:0-3-3,0-1-8], [3:0-3-0,0-1-12], [8:0-3-0,0-1-12], [9:0-3-3,0-1-8]

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	10	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	0.00	10	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 62 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 17-9-11.
(lb) - Max Horz 2=-35(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 11, 12, 15, 14, 9
Max Grav All reactions 250 lb or less at joint(s) 2, 9 except 11=309(LC 26), 12=304(LC 25), 15=309(LC 25), 14=304(LC 26)

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 0-3-11 to 2-8-0, Zone2 2-8-0 to 6-10-15, Zone1 6-10-15 to 16-10-0, Zone3 16-10-0 to 19-2-5 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 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, 11, 12, 15, 14, 9.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Date:

November 4,2025

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Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067958
4925663	PB08	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:16 2025 Page 1
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4-8-0 14-10-0 19-6-0
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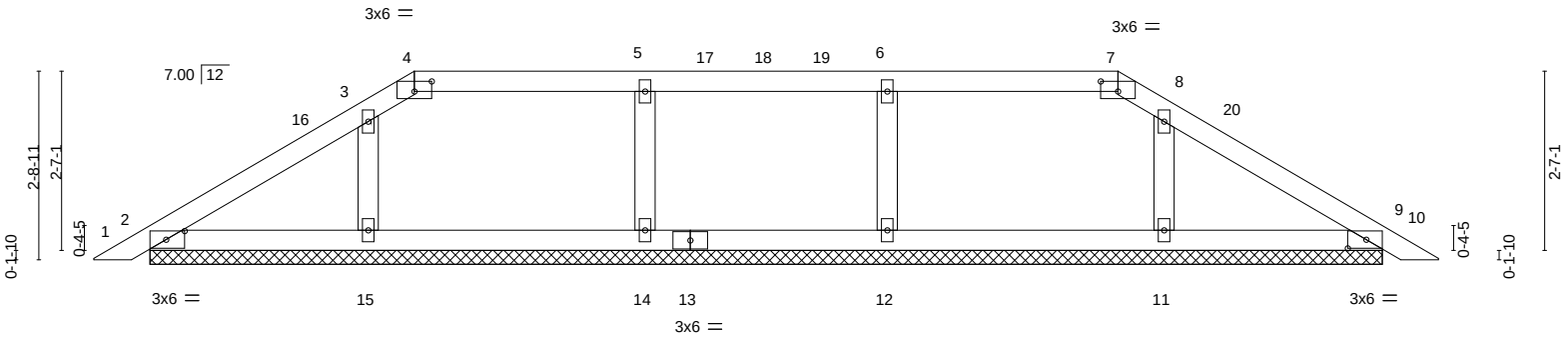

19-6-0
19-6-0

Plate Offsets (X,Y)-- [2:0-3-3,0-1-8], [4:0-3-0,0-1-12], [7:0-3-0,0-1-12], [9:0-3-3,0-1-8]

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	10	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	0.00	10	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.00	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 68 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 17-9-11.
(lb) - Max Horz 2=-63(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 14, 9 except 11=-105(LC 13), 15=-111(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 9 except 11=287(LC 1), 12=300(LC 25), 15=287(LC 1), 14=300(LC 26)

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 0-3-11 to 3-3-11, Zone1 3-3-11 to 4-8-0, Zone2 4-8-0 to 8-10-15, Zone1 8-10-15 to 14-10-0, Zone3 14-10-0 to 19-2-5 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 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, 12, 14, 9 except (jt=lb) 11=105, 15=111.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Date:

November 4,2025

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Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067959
4925663	PB09	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:17 2025 Page 1
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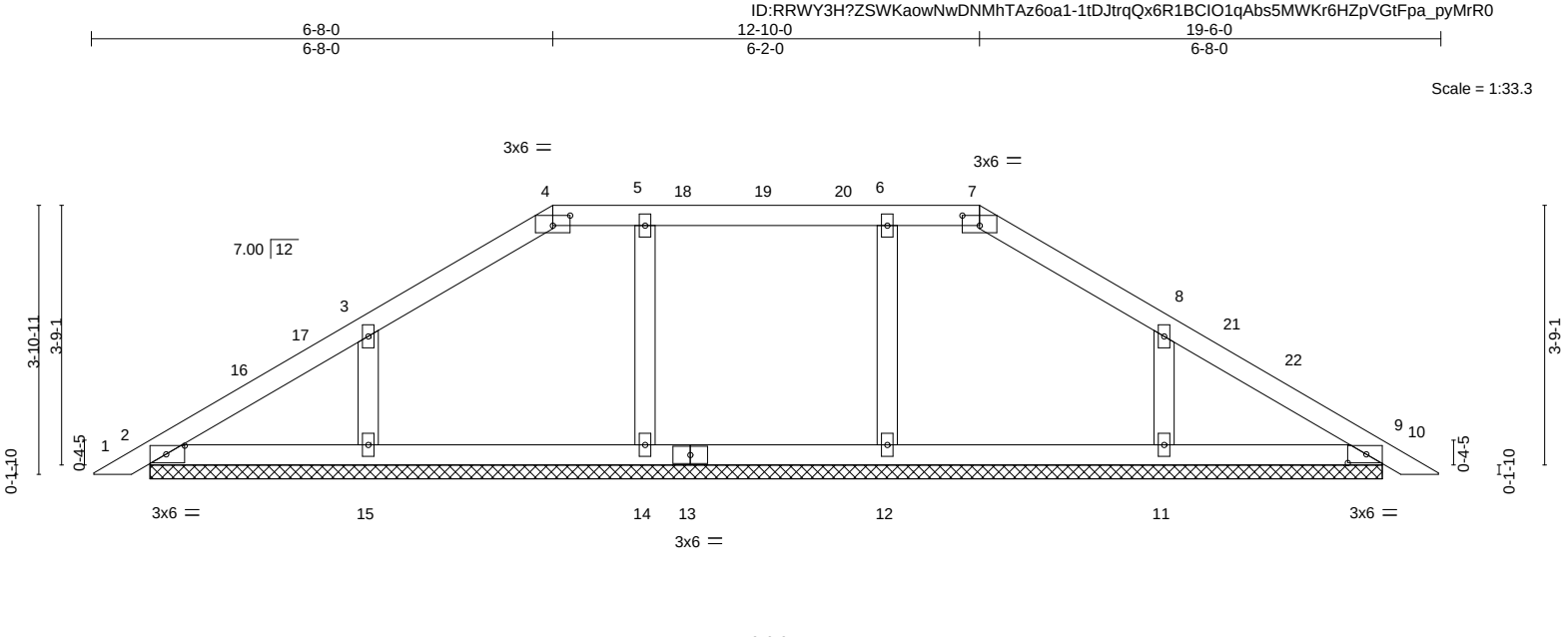

Plate Offsets (X,Y)-- [2:0-3-3,0-1-8], [4:0-3-0,0-1-12], [7:0-3-0,0-1-12], [9:0-3-3,0-1-8]

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	0.13	Vert(LL)	0.00	10	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	0.00	10	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 73 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 17-9-11.
(lb) - Max Horz 2=-92(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 14, 9 except 11=-133(LC 13), 15=-135(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 9 except 11=315(LC 20), 12=284(LC 26), 15=317(LC 19), 14=284(LC 25)

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 0-3-11 to 3-3-11, Zone1 3-3-11 to 6-8-0, Zone2 6-8-0 to 10-10-15, Zone1 10-10-15 to 12-10-0, Zone2 12-10-0 to 17-0-15, Zone1 17-0-15 to 19-2-5 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 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, 12, 14, 9 except (jt=lb) 11=133, 15=135.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Date:

November 4,2025

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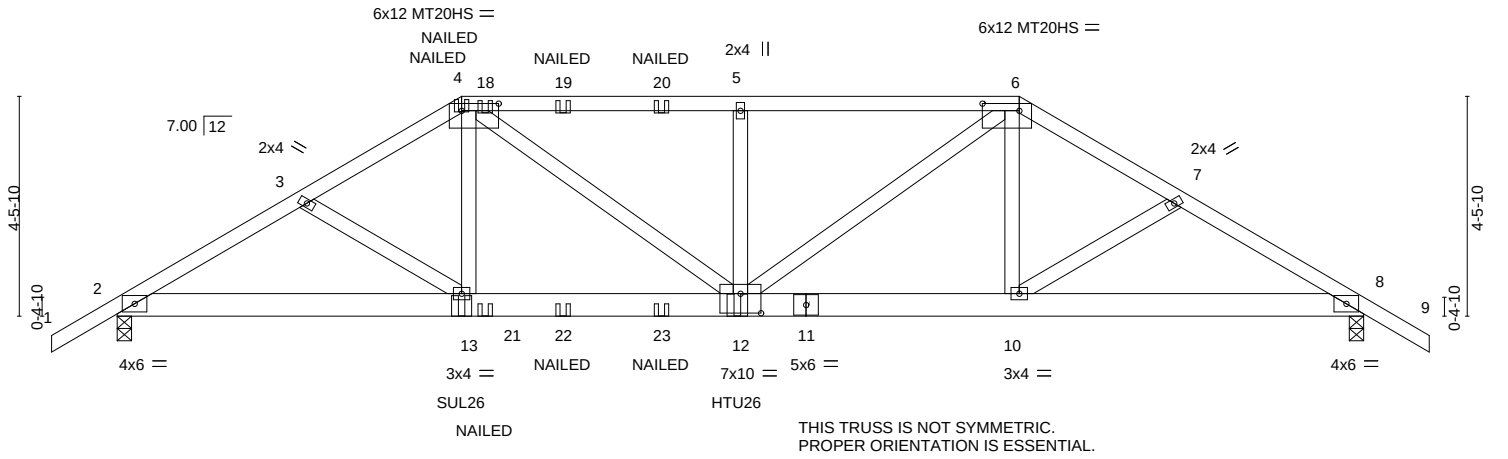
Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067960
4925663	T01	Hip Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:18 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-V3nh4Br2iQZupMsabXhqOIuYtFGFI4yP5vZ7XFyMrR?

-1-4-0	3-10-4	7-0-0	12-8-0	18-4-0	21-5-12	25-4-0	26-8-0
1-4-0	3-10-4	3-1-12	5-8-0	5-8-0	3-1-12	3-10-4	1-4-0

Scale = 1:46.8



7-0-0	12-8-0	18-4-0	25-4-0
7-0-0	5-8-0	5-8-0	7-0-0

Plate Offsets (X,Y)-- [4:0-9-0,0-1-12], [6:0-9-0,0-1-12], [12:0-5-0,0-4-12]

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	0.72	Vert(LL)	-0.16	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.32	12-13	>965	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.09	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 152 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
4-6: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-7-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-6-5 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-121(LC 27)
Max Uplift 2=-828(LC 8), 8=-669(LC 9)
Max Grav 2=2371(LC 1), 8=2058(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4227/1494, 3-4=-4059/1462, 4-5=-4601/1591, 5-6=-4601/1591, 6-7=-3428/1140, 7-8=-3609/1189
BOT CHORD 2-13=-1287/3605, 12-13=-1243/3506, 10-12=-831/2923, 8-10=-946/3078
WEBS 3-13=-254/196, 4-13=-259/782, 4-12=-404/1401, 5-12=-550/309, 6-12=-841/2136, 6-10=-46/332

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; 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=828, 8=669.
9) Use Simpson Strong-Tie SUL26 (6-16d Girder, 6-10dx1 1/2 Truss) or equivalent at 7-0-0 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
10) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent at 12-7-4 from the left end to connect truss(es) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
13) 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

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November 4,2025

Continued on page 2

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LOAD CASE(S) Standard

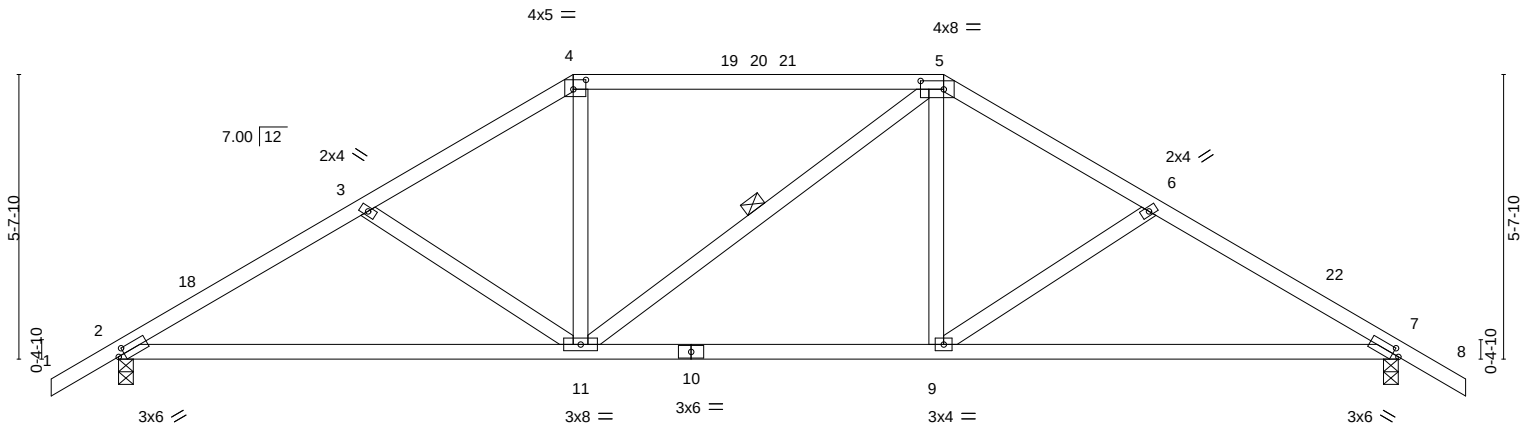
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-60, 4-6=-60, 6-9=-60, 2-8=-20
   Concentrated Loads (lb)
   Vert: 4=-60(F) 13=-301(F) 12=-1312(F) 18=-122(F) 19=-122(F) 20=-122(F) 21=-68(F) 22=-68(F) 23=-68(F)

Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067961
4925663	T02	Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:18 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-V3nh4Br2iQZupMsabXhqOIuWHFH_IEAP5vZ7XFyMrR?

-1-4-0 4-11-4 9-0-0 16-4-0 20-4-12 25-4-0 26-8-0
1-4-0 4-11-4 4-0-12 7-4-0 4-0-12 4-11-4 1-4-0

Scale = 1:45.6



9-0-0 16-4-0 25-4-0
9-0-0 7-4-0 9-0-0

Plate Offsets (X,Y)-- [2:0-1-8,0-1-8], [4:0-3-0,0-2-4], [5:0-5-8,0-2-0], [7:0-1-8,0-1-8]

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	0.89	Vert(LL)	-0.15	9-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.32	9-17	>945	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 127 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 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-10-6 oc bracing.
WEBS 1 Row at midpt 5-11

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=-150(LC 10)
Max Uplift 2=-278(LC 12), 7=-278(LC 13)
Max Grav 2=1093(LC 1), 7=1093(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1608/400, 3-4=-1370/338, 4-5=-1138/330, 5-6=-1370/338, 6-7=-1608/400
BOT CHORD 2-11=-354/1353, 9-11=-137/1138, 7-9=-253/1353
WEBS 3-11=-313/182, 4-11=-43/401, 5-9=-56/401, 6-9=-314/182

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 1-8-0, Zone1 1-8-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 16-4-0, Zone2 16-4-0 to 20-6-6, Zone1 20-6-6 to 26-8-0 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) 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) 2=278, 7=278.

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Date:

November 4,2025

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Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067962
4925663	T03	Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:19 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-_GL3lWsgTjhlQWRn8FC3xWRpLfh11e?YKZIh3hyMrR_

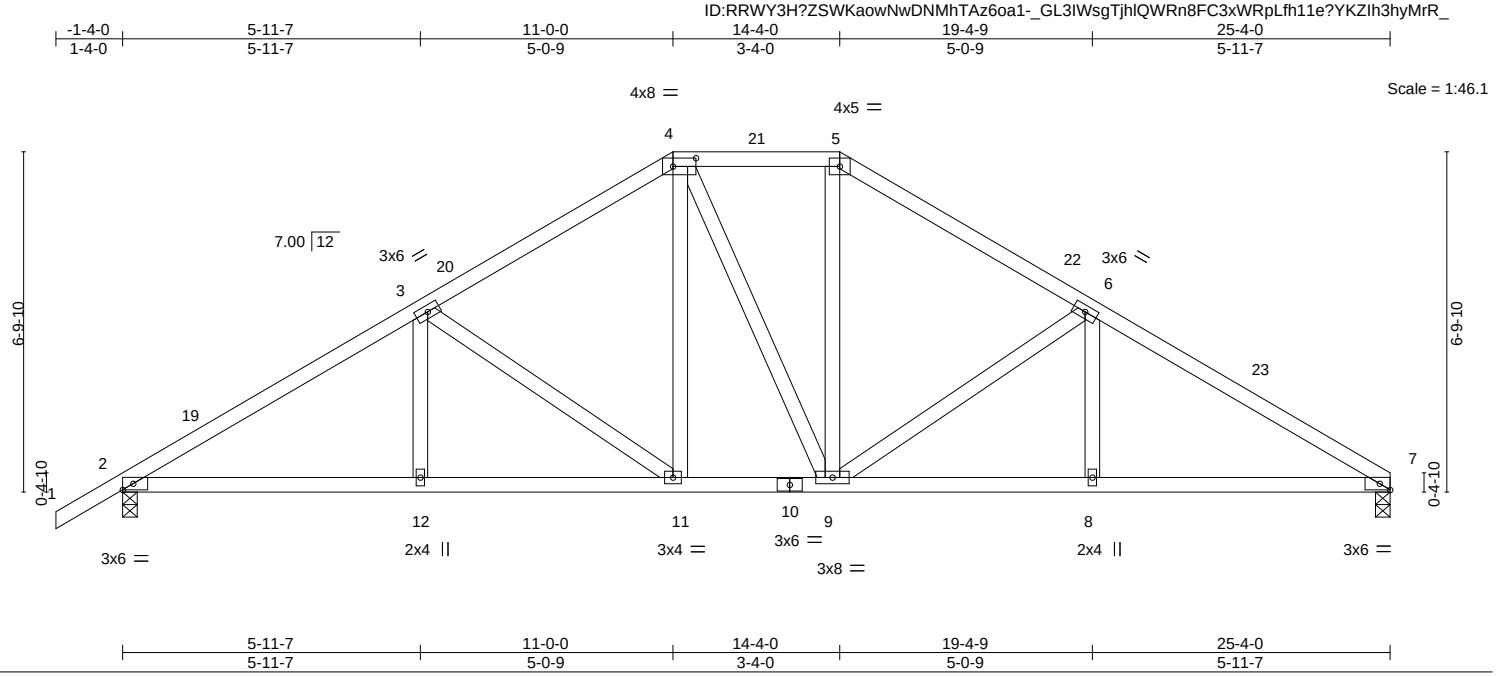

Plate Offsets (X,Y)-- [4:0-5-8,0-2-0], [7:0-2-8,Edge]

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	0.35	Vert(LL)	-0.05	11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.11	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 139 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 4-2-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-9-11 oc bracing.

REACTIONS. (size) 7=0-3-8, 2=0-3-8
Max Horz 2=172(LC 9)
Max Uplift 7=-239(LC 13), 2=-274(LC 12)
Max Grav 7=1011(LC 1), 2=1095(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1644/371, 3-4=-1212/306, 4-5=-978/306, 5-6=-1214/308, 6-7=-1655/380
BOT CHORD 2-12=-351/1354, 11-12=-351/1354, 9-11=-165/976, 8-9=-252/1366, 7-8=-252/1366
WEBS 3-11=-499/228, 4-11=-101/353, 5-9=-91/354, 6-9=-512/236

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 1-8-0, Zone1 1-8-0 to 11-0-0, Zone3 11-0-0 to 14-4-0, Zone2 14-4-0 to 18-6-15, Zone1 18-6-15 to 25-4-0 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) 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) 7=239, 2=274.

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Date:

November 4,2025

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Job	Truss	Truss Type	Qty	Ply	SMITH RES.
4925663	T04	Common	5	1	T39067963
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:19 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-_GL3IWsgTjhlQWRn8FC3xWRlsfhS1YhYKZIh3hyMrR_

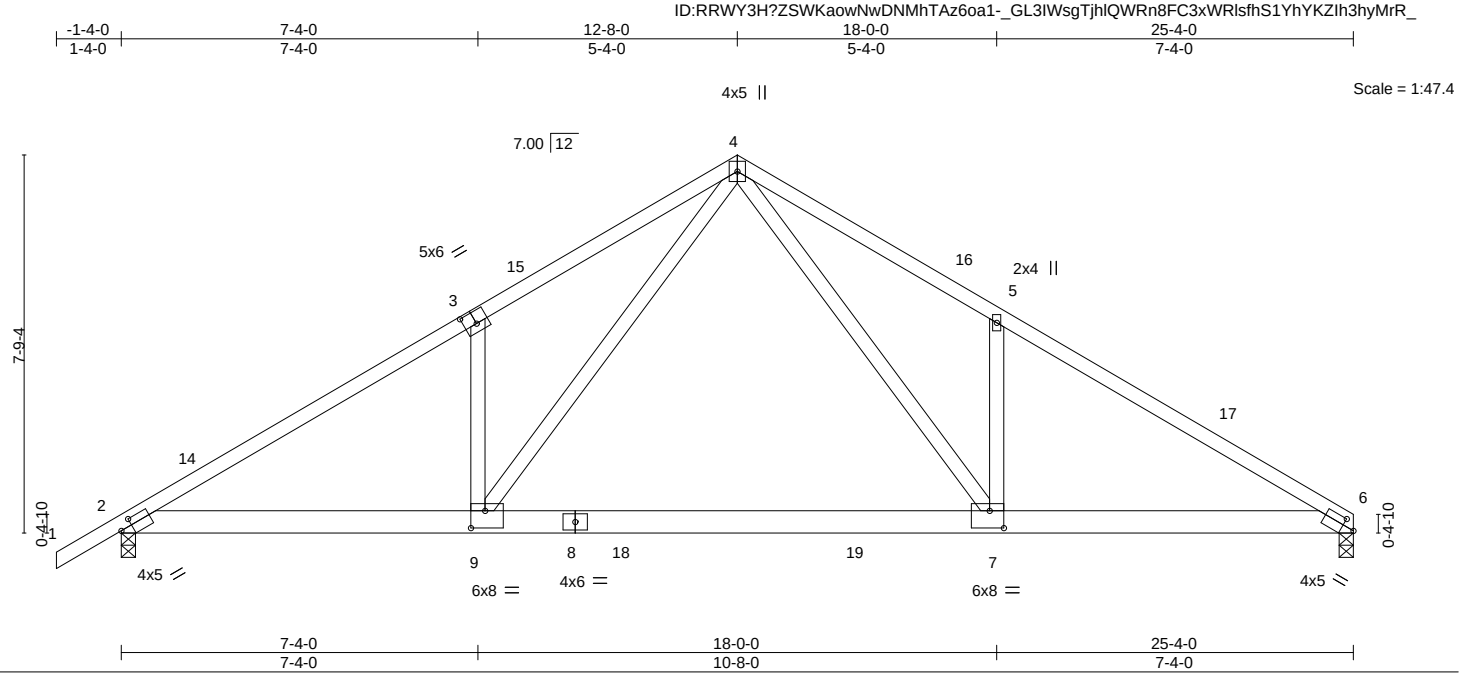

Plate Offsets (X,Y)-- [2:0-2-14,0-1-11], [3:0-3-0,0-3-0], [6:0-2-14,0-1-11], [7:0-3-8,0-4-4], [9:0-3-8,0-4-4]

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	0.58	Vert(LL)	-0.22	7-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.44	7-9	>688	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.72	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 143 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26
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 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 2=0-3-8
Max Horz 2=195(LC 9)
Max Uplift 6=-332(LC 13), 2=-367(LC 12)
Max Grav 6=1487(LC 20), 2=1565(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2599/566, 3-4=-2627/724, 4-5=-2643/737, 5-6=-2606/572
BOT CHORD 2-9=-513/2286, 7-9=-244/1395, 6-7=-392/2154
WEBS 4-7=-462/1527, 5-7=-405/283, 4-9=-447/1504, 3-9=-399/278

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 1-8-0, Zone1 1-8-0 to 12-8-0, Zone2 12-8-0 to 16-10-15, Zone1 16-10-15 to 25-4-0 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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=332, 2=367.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 4-6=-60, 2-9=-20, 7-9=-80(F=-60), 6-7=-20

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Date:

November 4,2025

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Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067964
4925663	T05	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:20 2025 Page 1
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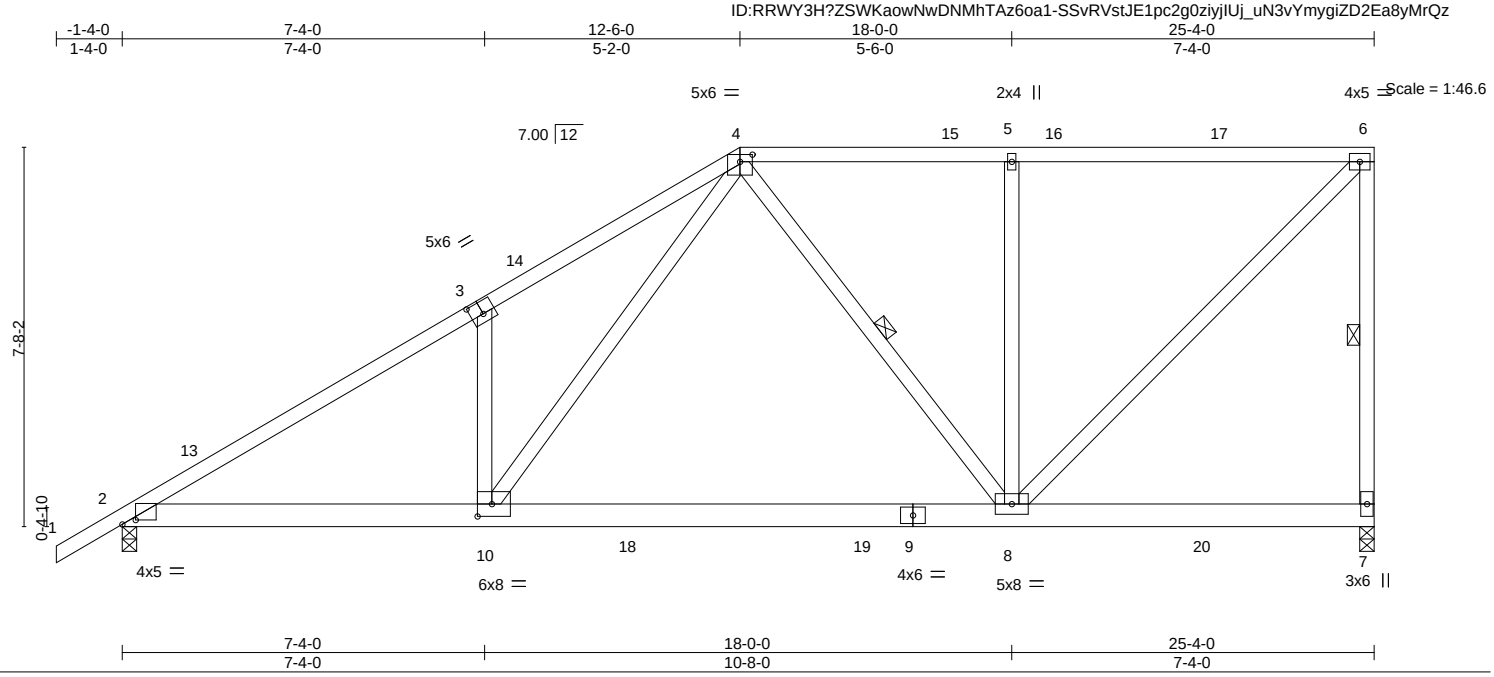

Plate Offsets (X,Y)-- [2:0-3-4,0-1-1], [3:0-3-0,0-3-0], [4:0-3-0,0-1-12], [10:0-3-8,0-3-0]

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	0.72	Vert(LL)	-0.21	8-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.42	8-10	>711	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 169 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26 *Except* 7-9: 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-7, 4-8

REACTIONS. (size) 7=0-3-8, 2=0-3-8
Max Horz 2=308(LC 12)
Max Uplift 7=-373(LC 9), 2=-381(LC 12)
Max Grav 7=1433(LC 2), 2=1527(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2528/596, 3-4=-2560/751, 4-5=-1184/334, 5-6=-1184/334, 6-7=-1349/400
BOT CHORD 2-10=-696/2164, 8-10=-432/1278
WEBS 3-10=-406/275, 4-10=-446/1516, 5-8=-452/232, 6-8=-474/1672

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 1-8-0, Zone1 1-8-0 to 12-6-0, Zone2 12-6-0 to 16-8-15, Zone1 16-8-15 to 25-2-4 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) 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) 7=373, 2=381.
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=-60, 4-6=-60, 2-10=-20, 8-10=-80(F=-60), 7-8=-20

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Date:

November 4,2025

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Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067965
4925663	T06	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:20 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-SSvRVstJE1pc2g0ziyjIUj_xl3_Tm3XiZD2Ea8yMrQz

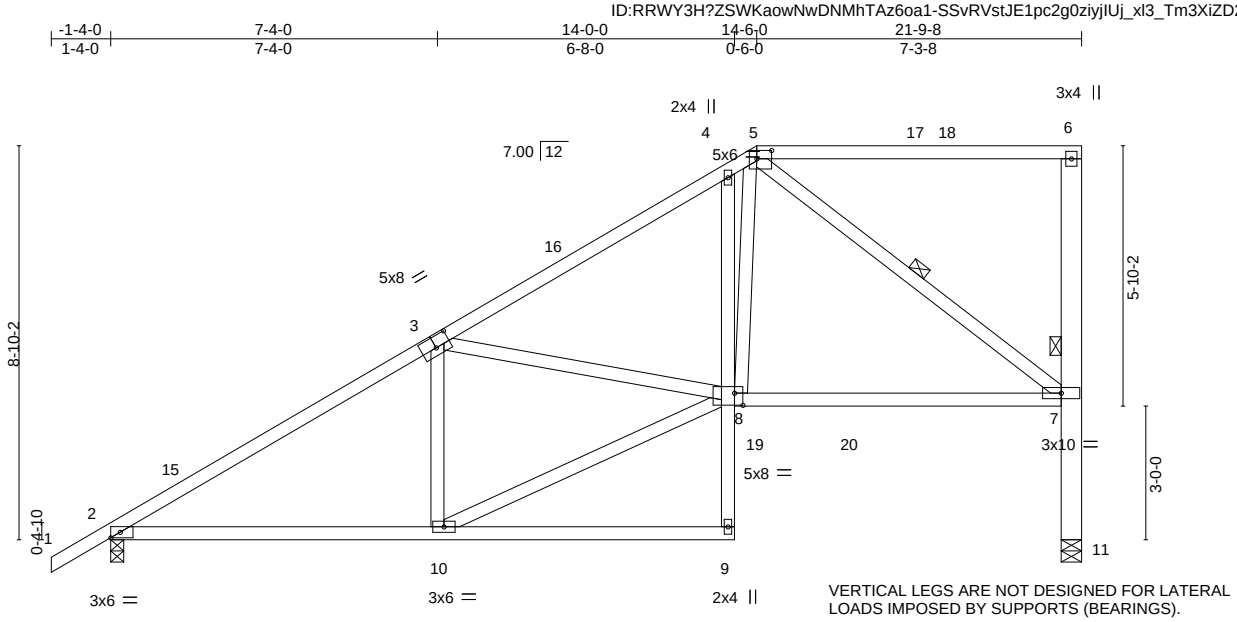

Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [5:0-4-0,0-2-4], [8:0-2-4,0-3-4]

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 0.57	Vert(LL) -0.15 7-8 >999 240	MT20 244/190
TCDL 10.0		Lumber DOL 1.25	BC 0.66	Vert(CT) -0.28 7-8 >920 180	
BCLL 0.0	*	Rep Stress Incr YES	WB 0.49	Horz(CT) 0.08 11 n/a n/a	
BCDL 10.0		Code FBC2023/TPI2014	Matrix-MS		Weight: 148 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
4-9: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
6-11: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-11, 5-7

REACTIONS. (size) 2=0-3-8, 11=0-5-8
Max Horz 2=353(LC 12)
Max Uplift 2=-225(LC 12), 11=-271(LC 12)
Max Grav 2=1062(LC 19), 11=937(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1440/260, 3-4=-1199/325, 4-5=-1171/410, 7-11=-937/271
BOT CHORD 2-10=-460/1249, 4-8=-269/179, 7-8=-302/845
WEBS 3-10=-302/236, 8-10=-499/1375, 3-8=-269/101, 5-8=-365/1147, 5-7=-1028/376

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 1-8-0, Zone1 1-8-0 to 14-6-0, Zone2 14-6-0 to 18-8-15, Zone1 18-8-15 to 21-6-12 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) 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) 11 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=225, 11=271.

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Date:

November 4,2025

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Job	Truss	Truss Type	Qty	Ply	SMITH RES.
4925663	T07	Monopitch	4	1	T39067966
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:21 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-weTqjCtx?LxSgqb9GgEX0xW2zSKuVY8rntnn6ayMrQy

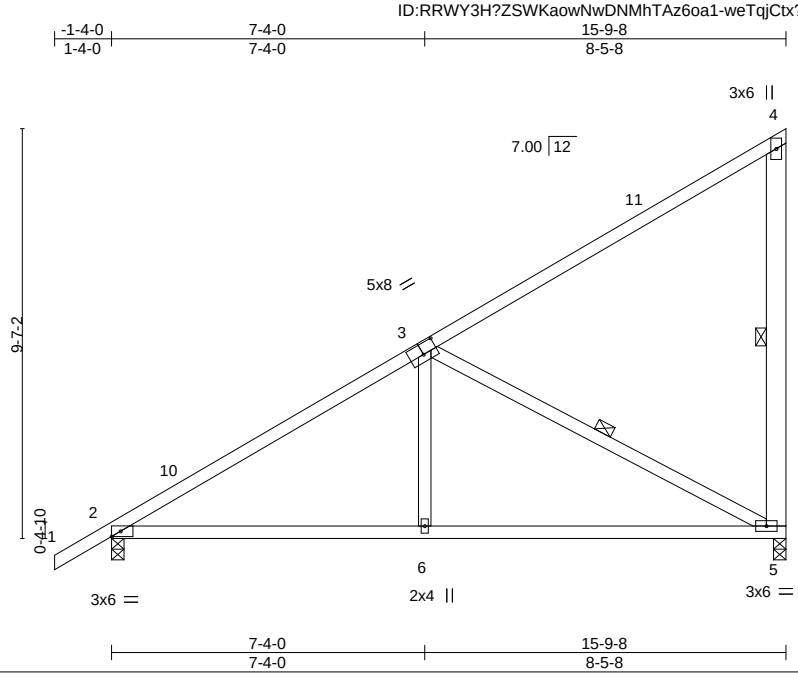

Plate Offsets (X,Y)-- [3:0-4-0,0-3-0]

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	0.79	Vert(LL)	-0.11	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.22	5-6	>854	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 93 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
4-5: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-5, 3-5

REACTIONS. (size) 2=0-3-8, 5=0-3-8
Max Horz 2=376(LC 12)
Max Uplift 2=-119(LC 12), 5=-290(LC 12)
Max Grav 2=706(LC 1), 5=651(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-860/63
BOT CHORD 2-6=-320/710, 5-6=-319/715
WEBS 3-6=0/357, 3-5=-777/347

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 1-8-0, Zone1 1-8-0 to 15-6-12 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=119, 5=290.

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Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067967
4925663	T08	Common	4	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:21 2025 Page 1
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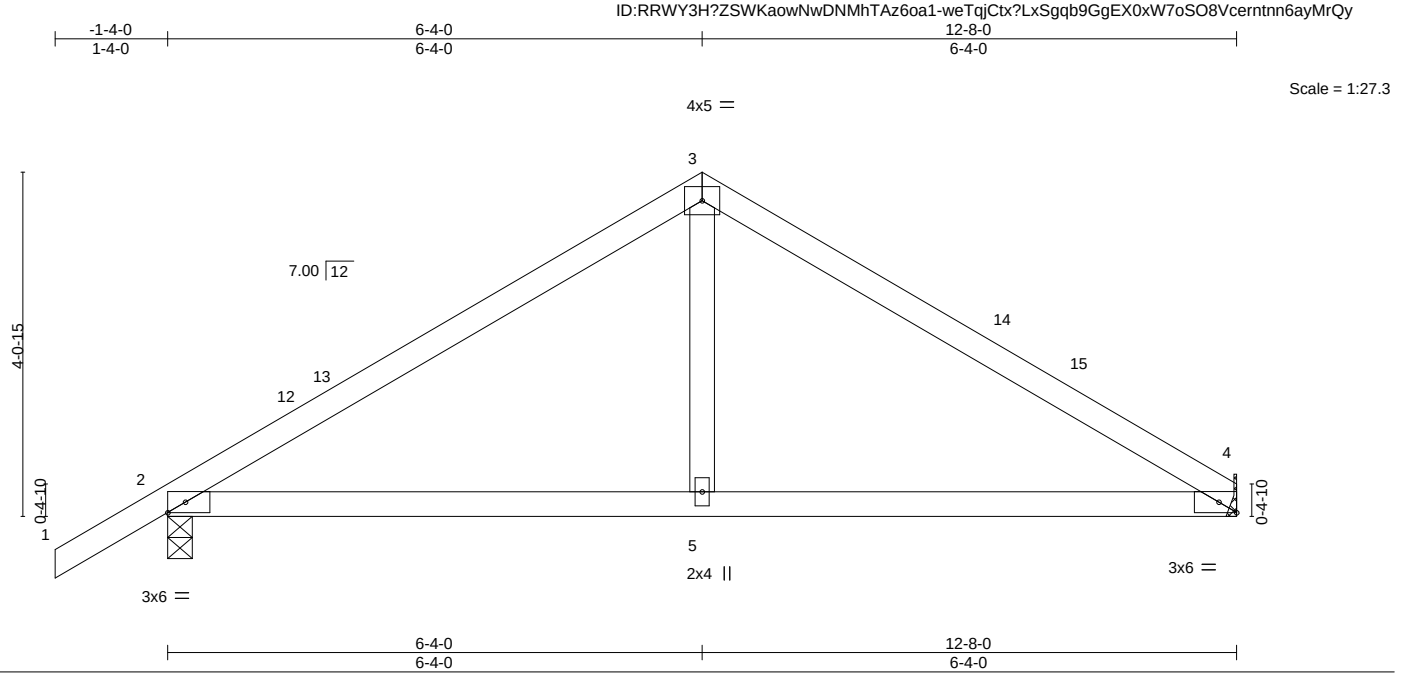

Plate Offsets (X,Y)-- [4:0-2-8,Edge]

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	0.48	Vert(LL)	-0.06	5-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.11	5-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 49 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8
Max Horz 2=104(LC 9)
Max Uplift 4=-117(LC 13), 2=-153(LC 12)
Max Grav 4=502(LC 1), 2=591(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-656/211, 3-4=-654/222
BOT CHORD 2-5=-92/492, 4-5=-92/492
WEBS 3-5=-17/299

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 1-8-0, Zone1 1-8-0 to 6-4-0, Zone2 6-4-0 to 10-6-15, Zone1 10-6-15 to 12-8-0 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) 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) 4=117, 2=153.

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Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067968
4925663	T08G	Common Supported Gable	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:22 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-Or1CwYuZme3JH_AMqNlmZ83OIsqcE43?0XXLf0yMrQx

-1-4-0 6-4-0 12-8-0 14-0-0
1-4-0 6-4-0 6-4-0 1-4-0

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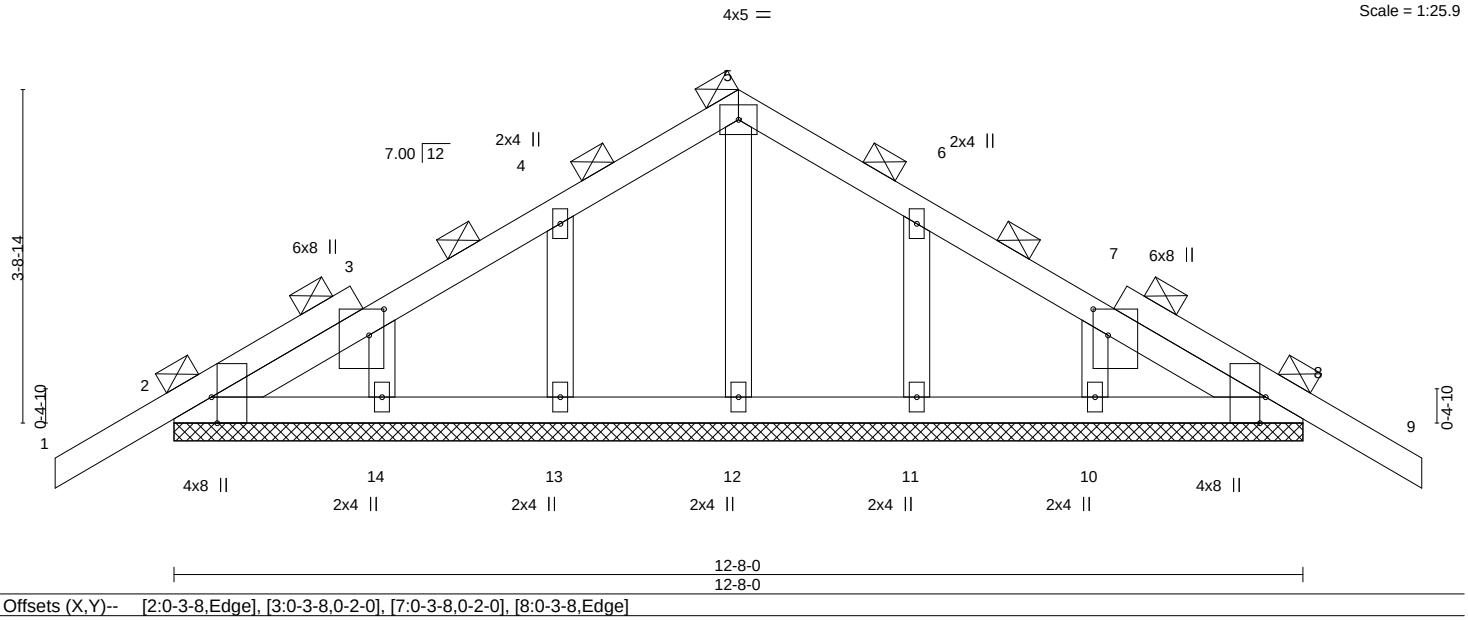

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [3:0-3-8,0-2-0], [7:0-3-8,0-2-0], [8:0-3-8,Edge]

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	0.12	Vert(LL)	-0.00	9	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.01	9	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: 64 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.

REACTIONS. All bearings 12-8-0.
(lb) - Max Horz 2=-102(LC 10)
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 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 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 10.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
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	SMITH RES.
4925663	T09	Half Hip Girder	1	1	T39067969
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:23 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-s1ba8uvBXyBAv7IYN5H?5McMEGyBzHc8FBGuBTyMrQw

-1-4-0	3-10-4	7-0-0	11-9-1	16-4-6	20-11-10	25-6-15	30-4-0
1-4-0	3-10-4	3-1-12	4-9-1	4-7-5	4-7-5	4-7-5	4-9-1

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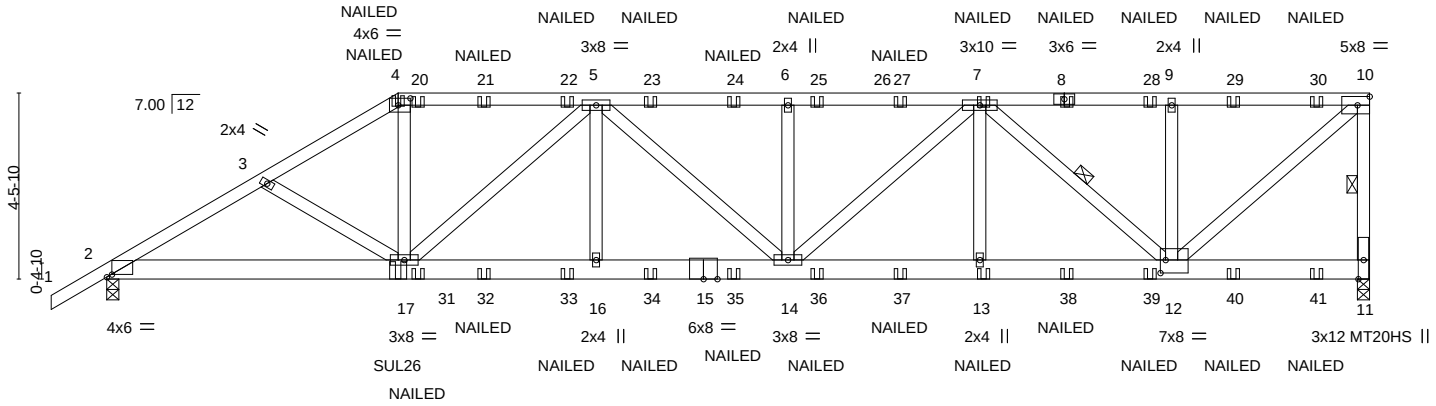

7-0-0	11-9-1	16-4-6	20-11-10	25-6-15	30-4-0
7-0-0	4-9-1	4-7-5	4-7-5	4-7-5	4-9-1

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

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	0.94	Vert(LL)	0.27	14-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.46	14-16	>792	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.12	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 201 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
5-17,5-14,7-14,7-12,10-12: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-3-3 oc bracing.
WEBS 1 Row at midpt 10-11, 7-12

REACTIONS. (size) 11=0-3-8, 2=0-3-8
Max Horz 2=184(LC 8)
Max Uplift 11=-1059(LC 5), 2=-990(LC 8)
Max Grav 11=2655(LC 1), 2=2478(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4427/1814, 3-4=-4249/1774, 4-5=-3698/1588, 5-6=-4979/2015, 6-7=-4979/2015, 7-9=-2614/1045, 9-10=-2614/1045, 10-11=-2529/1049
BOT CHORD 2-17=-1667/3779, 16-17=-1994/4834, 14-16=-1994/4834, 13-14=-1716/4262, 12-13=-1716/4262
WEBS 3-17=-251/185, 4-17=-616/1652, 5-17=-1558/632, 5-16=-9/387, 6-14=-536/310, 7-14=-445/959, 7-13=-8/393, 7-12=-2204/897, 9-12=-593/346, 10-12=-1377/3452

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; 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=1059, 2=990.
9) Use Simpson Strong-Tie SUL26 (6-16d Girder, 6-10dx1 1/2 Truss) or equivalent at 7-0-0 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
10) Fill all nail holes where hanger is in contact with lumber.
11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
12) 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

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Date:

November 4,2025

Continued on page 2

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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: 1-4=-60, 4-10=-60, 2-11=-20

Concentrated Loads (lb)

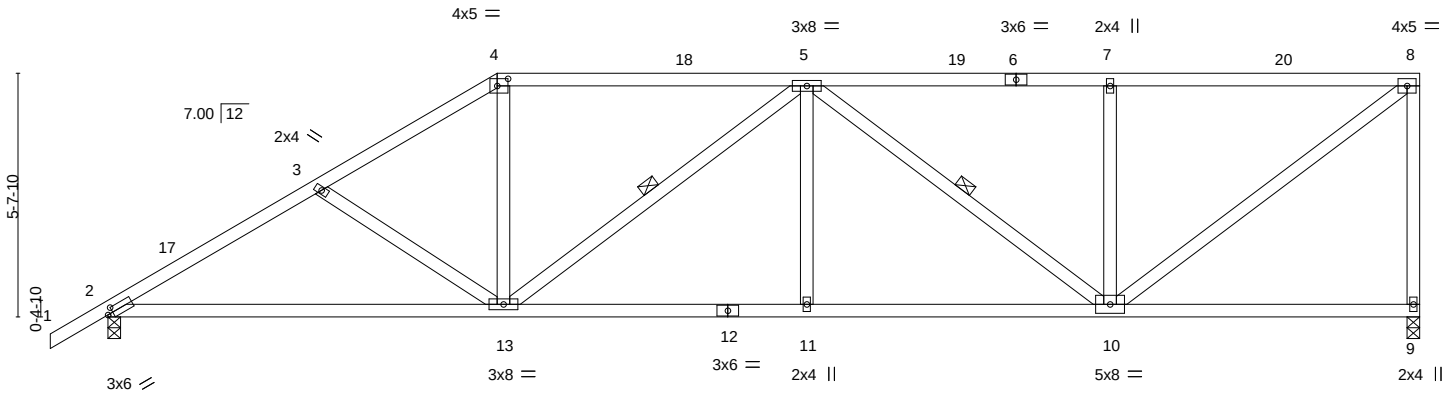
Vert: 4=-60(F) 8=-122(F) 17=-301(F) 13=-68(F) 7=-122(F) 20=-122(F) 21=-122(F) 22=-122(F) 23=-122(F) 24=-122(F) 25=-122(F) 27=-122(F) 28=-122(F) 29=-122(F) 30=-122(F) 31=-68(F) 32=-68(F) 33=-68(F) 34=-68(F) 35=-68(F) 36=-68(F) 37=-68(F) 38=-68(F) 39=-68(F) 40=-68(F) 41=-68(F)

Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067970
4925663	T10	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:23 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-s1ba8uvBXyBAv7lYN5H?5McMpG_CzMS8FBGuBTyMrQw

-1-4-0	4-11-4	9-0-0	16-1-15	23-2-1	30-4-0
1-4-0	4-11-4	4-0-12	7-1-15	7-0-3	7-1-15

Scale = 1:53.3



9-0-0	16-1-15	23-2-1	30-4-0
9-0-0	7-1-15	7-0-3	7-1-15

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

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	0.90	Vert(LL)	-0.15	13-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.32	13-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.06	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 170 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 3-8-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-7-5 oc bracing.
WEBS 1 Row at midpt 5-13, 5-10

REACTIONS. (size) 9=0-3-8, 2=0-3-8
Max Horz 2=229(LC 12)
Max Uplift 9=-353(LC 9), 2=-350(LC 12)
Max Grav 9=1206(LC 1), 2=1289(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1991/539, 3-4=-1752/477, 4-5=-1470/453, 5-7=-1282/372, 7-8=-1282/372, 8-9=-1143/369
BOT CHORD 2-13=-601/1682, 11-13=-503/1755, 10-11=-503/1755
WEBS 3-13=-314/180, 4-13=-79/558, 5-13=-449/224, 5-11=0/256, 5-10=-595/255, 7-10=-447/226, 8-10=-458/1583

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 1-8-6, Zone1 1-8-6 to 9-0-0, Zone2 9-0-0 to 13-3-8, Zone1 13-3-8 to 30-2-4 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) 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) 9=353, 2=350.

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:

November 4,2025

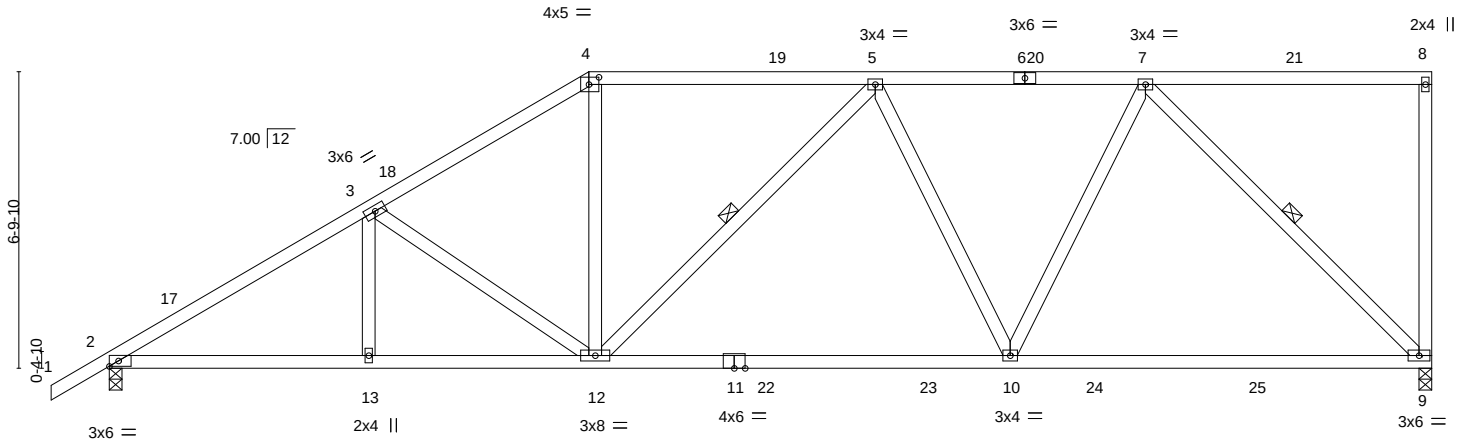
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067971
4925663	T11	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:24 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-KD9yLEwpIGJ1XHKkxooEeZ8dTgJjiplIUr0SjvyMrQv

-1-4-0	5-11-7	11-0-0	17-6-13	23-9-3	30-4-0
1-4-0	5-11-7	5-0-9	6-6-13	6-2-6	6-6-13

Scale = 1:52.8



5-11-7	11-0-0	20-7-15	30-4-0
5-11-7	5-0-9	9-8-0	9-8-1

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

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	0.52	Vert(LL)	-0.27	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.47	9-10	>775	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 174 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
9-11: 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-5-9 oc bracing.
WEBS 1 Row at midpt 5-12, 7-9

REACTIONS. (size) 9=0-3-8, 2=0-3-8
Max Horz 2=274(LC 12)
Max Uplift 9=-347(LC 9), 2=-347(LC 12)
Max Grav 9=1358(LC 2), 2=1386(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2183/512, 3-4=-1771/446, 4-5=-1481/429, 5-7=-1417/325
BOT CHORD 2-13=-613/1831, 12-13=-613/1831, 10-12=-412/1545, 9-10=-286/1071
WEBS 3-12=-537/224, 4-12=-63/598, 5-10=-376/236, 7-10=-164/805, 7-9=-1490/403

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 1-8-6, Zone1 1-8-6 to 11-0-0, Zone2 11-0-0 to 15-3-8, Zone1 15-3-8 to 30-2-4 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) 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) 9=347, 2=347.

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:

November 4,2025

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

Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067972
4925663	T12	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:25 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-oQiKZaxR2ZRu8RvwVVJTAnho64gHRGlRiVl?FLyMrQu

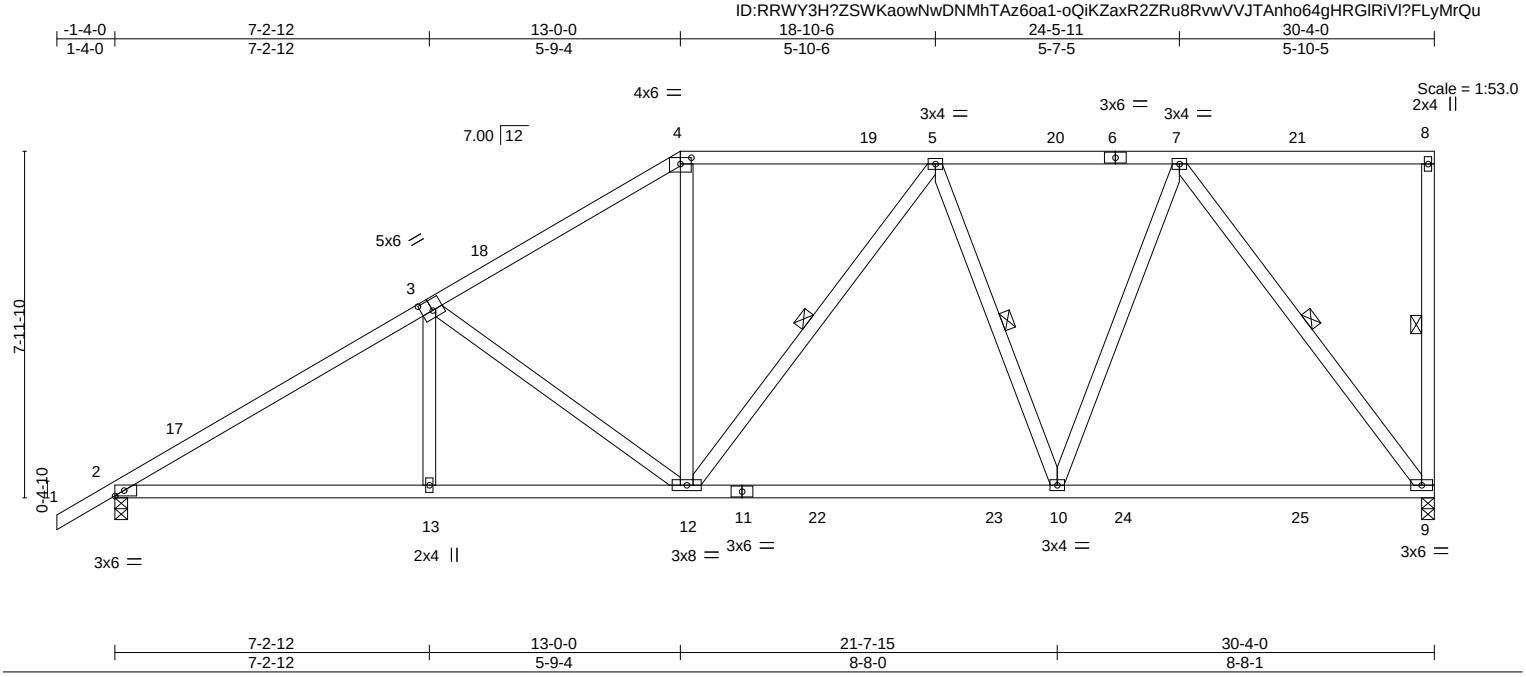

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [4:0-3-0,0-1-12]

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	0.53	Vert(LL)	-0.20	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.33	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.06	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 185 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
9-11: 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-3-6 oc bracing.
WEBS 1 Row at midpt 8-9, 5-12, 5-10, 7-9

REACTIONS. (size) 9=0-3-8, 2=0-3-8
Max Horz 2=319(LC 12)
Max Uplift 9=-340(LC 9), 2=-341(LC 12)
Max Grav 9=1369(LC 2), 2=1389(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2129/486, 3-4=-1609/412, 4-5=-1323/401, 5-7=-1128/266
BOT CHORD 2-13=-620/1778, 12-13=-620/1778, 10-12=-353/1266, 9-10=-216/836
WEBS 3-13=0/267, 3-12=-679/271, 4-12=-48/517, 5-10=-456/254, 7-10=-192/852, 7-9=-1374/358

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 1-8-6, Zone1 1-8-6 to 13-0-0, Zone2 13-0-0 to 17-3-8, Zone1 17-3-8 to 30-2-4 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) 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) 9=340, 2=341.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 4,2025

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	SMITH RES.
4925663	T13	Half Hip	1	1	T39067973

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:25 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-oQiKZaxR2ZRu8RvwVVJTAnhla4gHRBFRiVl?FLyMrQu

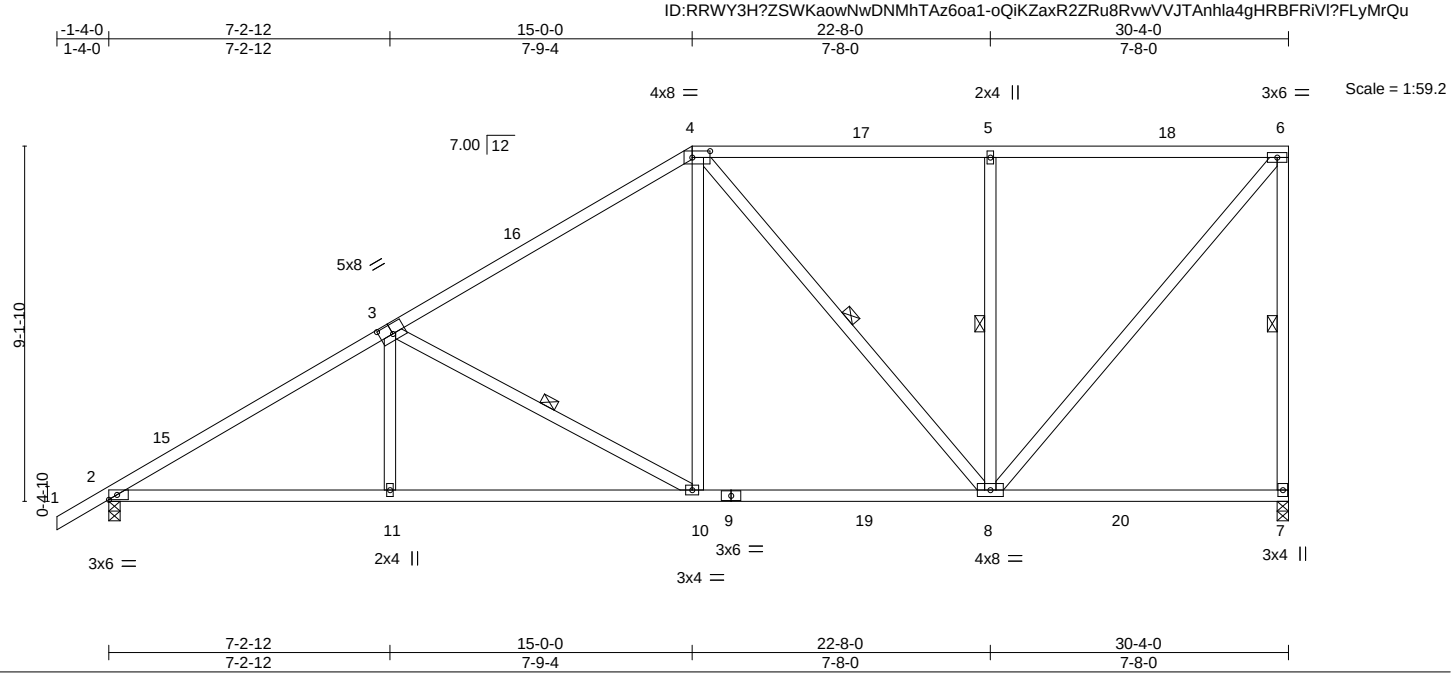

Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [4:0-5-8,0-2-0]

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	0.75	Vert(LL)	-0.15	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.25	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.06	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 187 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 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-1-5 oc bracing.
WEBS 1 Row at midpt 6-7, 3-10, 4-8, 5-8

REACTIONS. (size) 7=0-3-8, 2=0-3-8
Max Horz 2=364(LC 12)
Max Uplift 7=-331(LC 9), 2=-334(LC 12)
Max Grav 7=1377(LC 2), 2=1417(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2148/478, 3-4=-1469/359, 4-5=-921/246, 5-6=-921/246, 6-7=-1222/349
BOT CHORD 2-11=-663/1866, 10-11=-663/1866, 8-10=-377/1185
WEBS 3-11=0/320, 3-10=-839/327, 4-10=-108/709, 4-8=-494/201, 5-8=-536/277, 6-8=-379/1400

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 1-8-6, Zone1 1-8-6 to 15-0-0, Zone2 15-0-0 to 19-3-8, Zone1 19-3-8 to 30-2-4 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) 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) 7=331, 2=334.

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Date:

November 4,2025

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Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067974
4925663	T14	Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:26 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-GcGjmwx3ptZlmbU73Dqij_EtwTyYAf7ax9VYooyMrQt

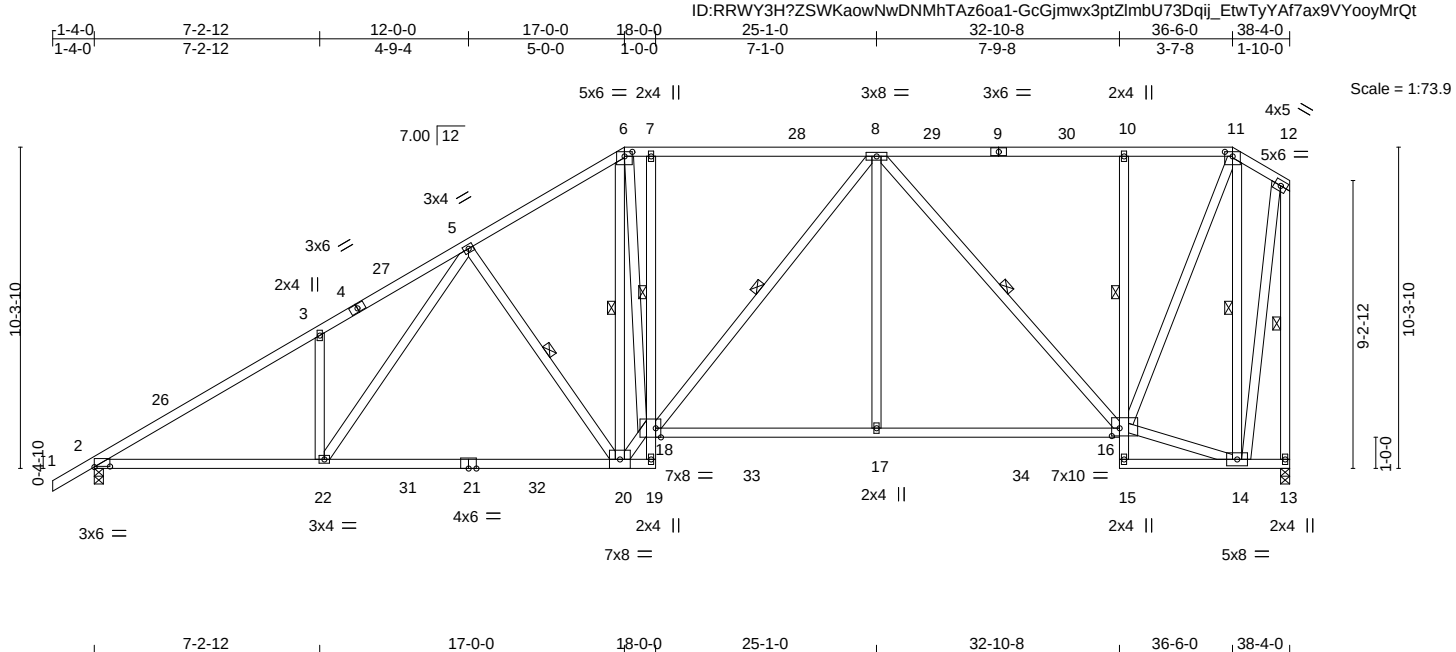

Plate Offsets (X,Y)-- [2:0-6-0,0-0-4], [6:0-3-0,0-1-12], [11:0-3-0,0-1-12], [16:0-3-0,0-3-0], [18:0-2-0,Edge]

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	0.84	Vert(LL)	-0.32	20-22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	1.00	Vert(CT)	-0.55	20-22	>837	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.17	13	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 317 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
7-19,10-15: 2x4 SP No.3, 19-21: 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
1 Row at midpt 7-18, 10-16
WEBS 1 Row at midpt 5-20, 6-20, 8-18, 8-16, 11-14, 12-13

REACTIONS. (size) 2=0-3-8, 13=0-3-8
Max Horz 2=387(LC 12)
Max Uplift 2=-422(LC 12), 13=-360(LC 9)
Max Grav 2=1787(LC 19), 13=1727(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2919/631, 3-5=-2901/788, 5-6=-2036/535, 6-7=-1844/555, 7-8=-1858/560, 8-10=-898/213, 10-11=-888/210, 11-12=-335/80, 12-13=-1674/350
BOT CHORD 2-22=-811/2491, 20-22=-655/2011, 18-19=-455/0, 7-18=-292/202, 17-18=-435/1747, 16-17=-435/1747, 10-16=-400/206
WEBS 3-22=-395/270, 5-22=-279/903, 5-20=-660/300, 6-20=-654/276, 18-20=-591/2373, 6-18=-471/1434, 8-18=-165/296, 8-17=0/491, 8-16=-1285/373, 14-16=-32/303, 11-16=-422/1701, 11-14=-1474/361, 12-14=-323/1468

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 2-6-0, Zone1 2-6-0 to 17-0-0, Zone2 17-0-0 to 22-5-1, Zone1 22-5-1 to 36-6-0, Zone3 36-6-0 to 38-2-4 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) 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=422, 13=360.

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Date:

November 4,2025

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Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067975
4925663	T15	Piggyback Base	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:27 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-loq5zGyiaBhcOl2JcwLxGCm3xtLmvBakApF6KEyMrQs

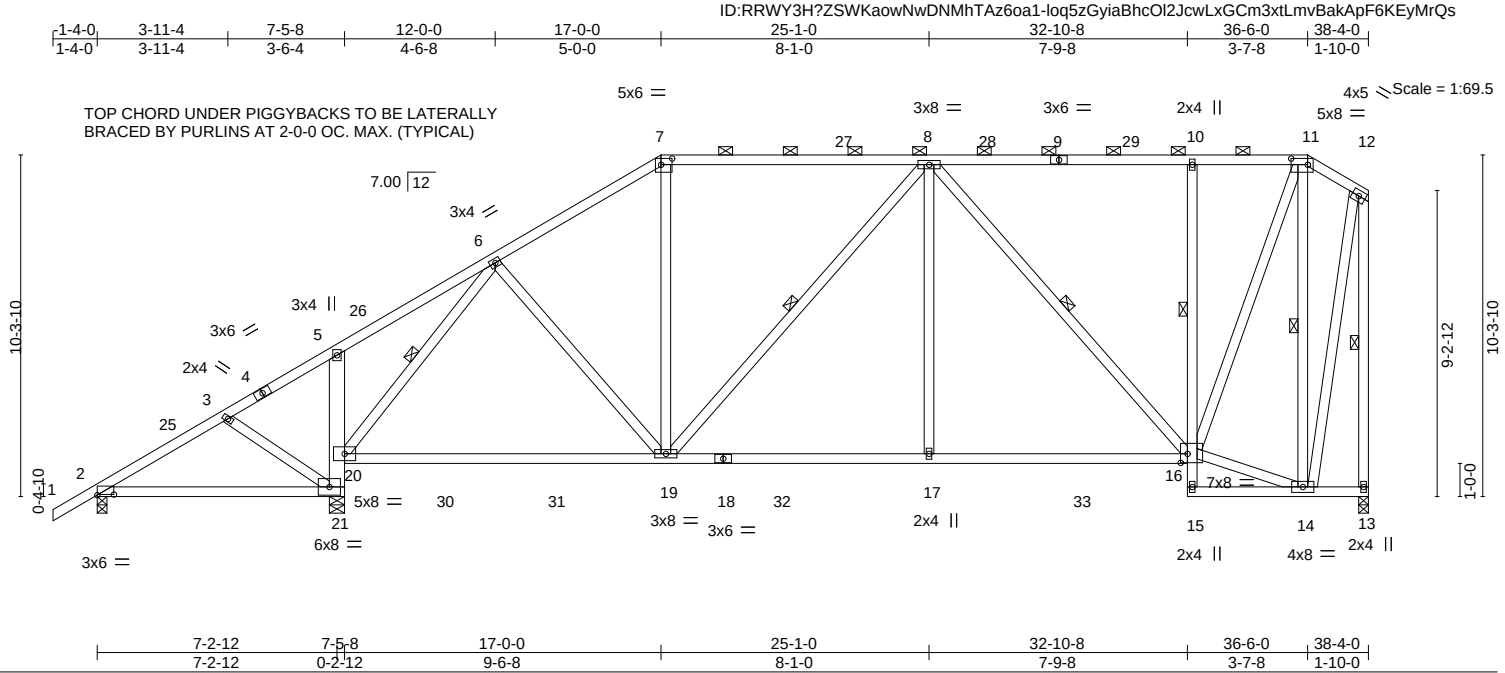

Plate Offsets (X,Y)-- [2:0-6-0,0-0-4], [7:0-4-0,0-2-4], [11:0-6-0,0-2-4], [16:0-2-8,0-3-4]

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	0.83	Vert(LL)	-0.32	19-20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.54	19-20	>694	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.06	13	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 2x4 SP No.2 *Except*
5-21: 2x6 SP No.2, 18-20: 2x4 SP No.1, 10-15: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-8 oc purlins, except end verticals, and 2-0-0 oc purlins (4-5-15 max.): 7-11.
BOT CHORD Rigid ceiling directly applied or 5-7-3 oc bracing. Except:
1 Row at midpt 10-16
WEBS 1 Row at midpt 6-20, 8-19, 8-16, 11-14, 12-13

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 21=0-5-8
Max Horz 2=387(LC 12)
Max Uplift 2=-34(LC 8), 13=-297(LC 9), 21=-558(LC 12)
Max Grav 2=305(LC 25), 13=1380(LC 2), 21=1834(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-247/265, 6-7=-1284/306, 7-8=-1060/309, 8-10=-698/176, 10-11=-690/173, 11-12=-308/79, 12-13=-1340/295
BOT CHORD 20-21=-1587/496, 5-20=-268/184, 19-20=-308/825, 17-19=-315/1242, 16-17=-315/1242, 10-16=-382/204
WEBS 3-21=-256/141, 6-20=-1517/431, 6-19=-107/411, 7-19=-10/347, 8-19=-337/174, 8-17=0/454, 8-16=-824/241, 14-16=-23/274, 11-16=-348/1307, 11-14=-1133/299, 12-14=-271/1157

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 2-6-0, Zone1 2-6-0 to 17-0-0, Zone2 17-0-0 to 22-5-1, Zone1 22-5-1 to 36-6-0, Zone3 36-6-0 to 38-2-4 zone; 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) 2 except (jt=lb) 13=297, 21=558.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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:

November 4,2025

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

Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067976
4925663	T16	Piggyback Base	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:27 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-loq5zGyiaBhcOl2JcwLxGCm9ItL1vAikApF6KEyMrQs

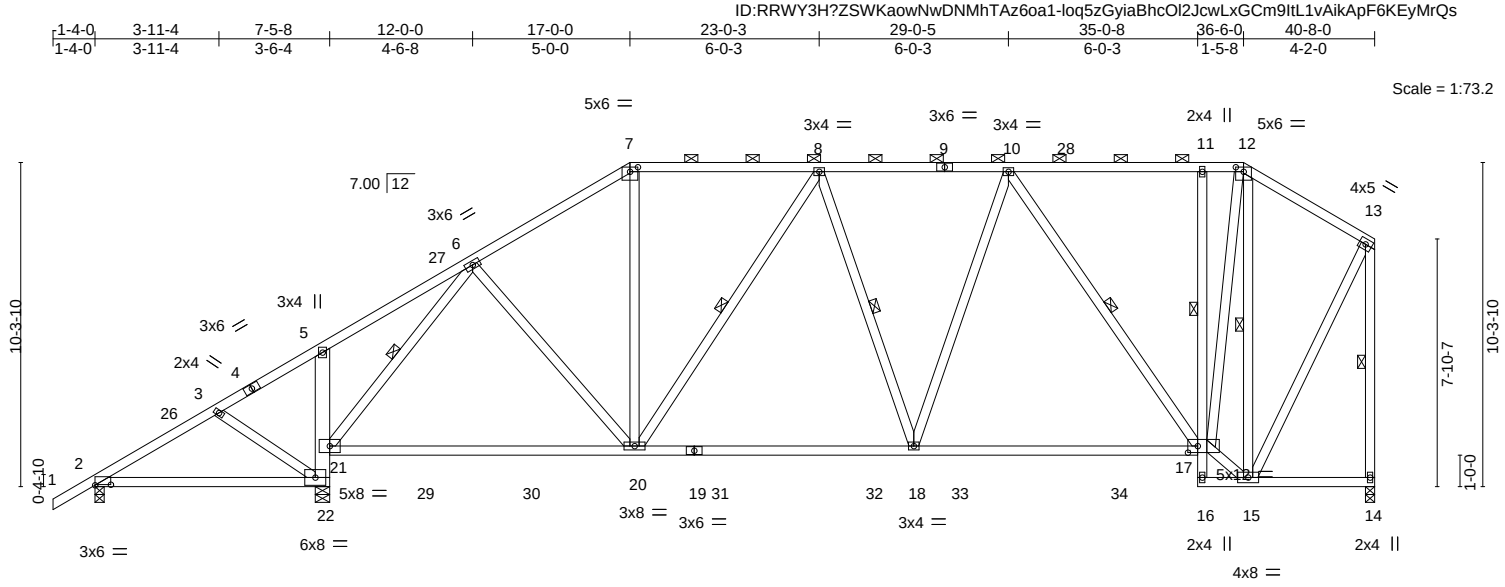

Plate Offsets (X,Y)-- [2:0-6-0,0-0-4], [7:0-3-0,0-1-12], [12:0-3-0,0-1-12], [17:0-3-12,0-2-8]

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	0.42	Vert(LL)	-0.30	20-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.52	20-21	>774	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.08	14	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*
5-22: 2x6 SP No.2, 19-21,17-19: 2x4 SP No.1, 11-16: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-13 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-3 max.): 7-12.
BOT CHORD Rigid ceiling directly applied or 5-4-10 oc bracing. Except:
1 Row at midpt 11-17
WEBS 1 Row at midpt 6-21, 8-20, 8-18, 10-17, 12-15, 13-14

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 22=0-5-8
Max Horz 2=358(LC 12)
Max Uplift 2=-45(LC 8), 14=-301(LC 13), 22=-572(LC 12)
Max Grav 2=296(LC 25), 14=1484(LC 2), 22=1951(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-228/290, 5-6=-118/261, 6-7=-1414/342, 7-8=-1169/338, 8-10=-1395/327, 10-11=-771/225, 11-12=-758/222, 12-13=-661/165, 13-14=-1438/312
BOT CHORD 21-22=-1705/511, 5-21=-265/180, 20-21=-305/900, 18-20=-350/1388, 17-18=-315/1261, 11-17=-268/160
WEBS 3-22=-256/141, 6-21=-1677/455, 6-20=-108/458, 7-20=-41/430, 8-20=-455/219, 10-18=-87/449, 10-17=-877/257, 15-17=-80/754, 12-17=-391/1477, 12-15=-1270/271, 13-15=-238/1157

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 2-8-13, Zone1 2-8-13 to 17-0-0, Zone2 17-0-0 to 23-0-3, Zone1 23-0-3 to 36-6-0, Zone3 36-6-0 to 40-6-4 zone; 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) 2 except (jt=lb) 14=301, 22=572.
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
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 4,2025

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	SMITH RES.
4925663	T17	Hip Girder	1	2	T39067977

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:30 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-9NWDcH_at64BFCnuI3vetqOXZ5Ru6YIAsmTmxZyMrQp

1-4-0	2-3-8	7-0-0	11-4-12	15-6-0	17-8-0	22-7-7	27-6-13	32-8-0	35-9-12	39-8-0
1-4-0	2-3-8	4-8-8	4-4-12	4-1-4	2-2-0	4-11-7	4-11-6	5-1-3	3-1-12	3-10-4

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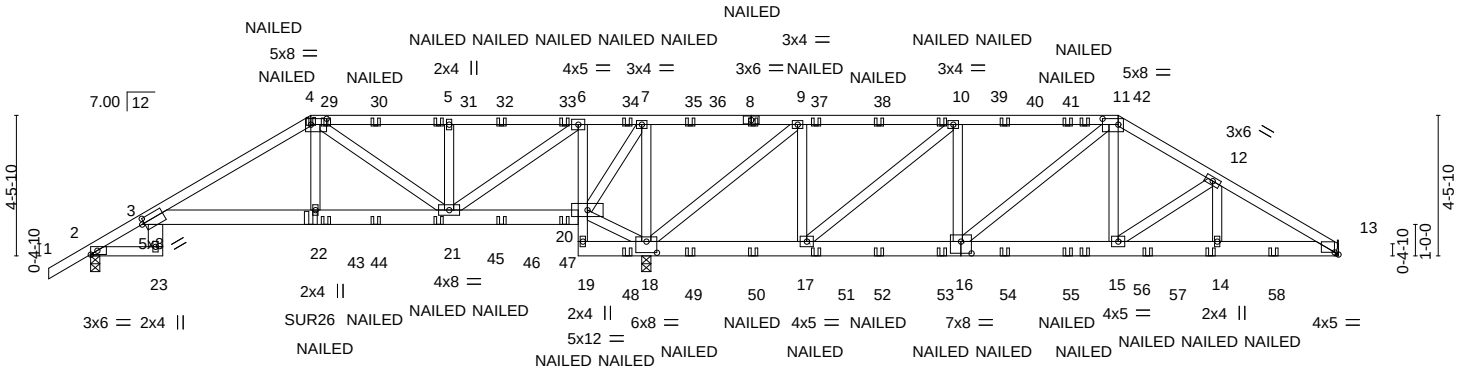

2-3-8	7-0-0	11-4-12	15-6-0	17-8-0	22-7-7	27-6-13	32-8-0	35-9-12	39-8-0
2-3-8	4-8-8	4-4-12	4-1-4	2-2-0	4-11-7	4-11-6	5-1-3	3-1-12	3-10-4

Plate Offsets (X,Y)-- [3:0-0-15,0-2-0], [4:0-6-0,0-2-4], [11:0-6-0,0-2-4], [13:0-1-8,0-0-13], [16:0-4-0,0-4-8], [18:0-4-0,0-4-4]

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	0.99	Vert(LL)	0.12	3-22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.20	3-22	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.12	13	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 503 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
2-23: 2x4 SP No.2, 6-19: 2x4 SP No.3
WEBS 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.

REACTIONS. (size) 13=Mechanical, 2=0-3-8, 18=0-3-8
Max Horz 2=114(LC 28)
Max Uplift 13=-602(LC 9), 2=-224(LC 8), 18=-1898(LC 8)
Max Grav 13=1504(LC 22), 2=627(LC 21), 18=4971(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-27=-435/194, 3-4=-849/411, 4-5=-173/623, 5-6=-173/623, 6-7=-1135/2935, 7-9=-1202/3121, 9-10=-280/685, 10-11=-1243/667, 11-12=-1874/816, 12-13=-2528/1041
BOT CHORD 3-23=-92/255, 3-22=-349/718, 21-22=-357/759, 20-21=-2907/1210, 6-20=-1962/836, 18-19=-257/94, 17-18=-651/370, 16-17=-576/1229, 15-16=-621/1614, 14-15=-845/2155, 13-14=-845/2155
WEBS 4-22=-312/839, 4-21=-1589/661, 5-21=-556/315, 6-21=-1171/2888, 18-20=-3286/1374, 7-20=-241/399, 7-18=-837/466, 9-18=-3327/1233, 9-17=-464/1538, 10-17=-2094/779, 10-16=-139/728, 11-16=-570/228, 11-15=-248/783, 12-15=-691/318, 12-14=-202/544

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, 2x6 - 2 rows staggered at 0-9-0 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; 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) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=602, 2=224, 18=1898.
11) Use Simpson Strong-Tie SUR26 (6-10d Girder, 6-10dx1 1/2 Truss) or equivalent at 7-0-0 from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.

Continued on page 2

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

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NOTES-

12) Fill all nail holes where hanger is in contact with lumber.
13) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

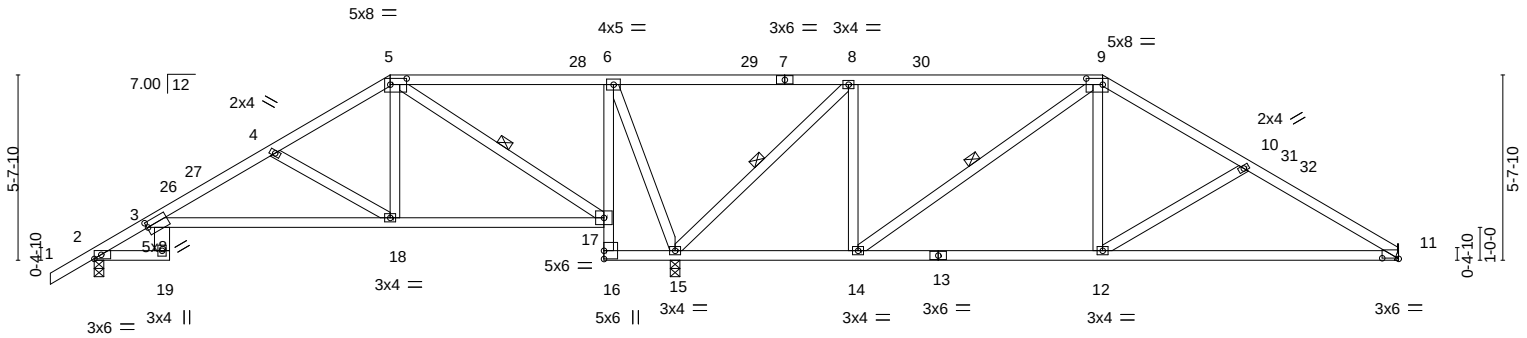
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-4=-60, 4-11=-60, 11-13=-60, 23-26=-20, 3-20=-20, 13-19=-20
   Concentrated Loads (lb)
   Vert: 4=-13(B) 8=-122(B) 22=-364(B) 14=-246(B) 29=-109(B) 30=-109(B) 31=-109(B) 32=-109(B) 33=-109(B) 34=-122(B) 35=-122(B) 37=-122(B) 38=-122(B) 39=-122(B) 40=-122(B) 41=-122(B) 42=-122(B) 43=-82(B) 44=-82(B) 45=-82(B) 46=-82(B) 47=-82(B) 48=-68(B) 49=-68(B) 50=-68(B) 51=-68(B) 52=-68(B) 53=-68(B) 54=-68(B) 55=-68(B) 56=-68(B) 57=-246(B) 58=-246(B)

Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067978
4925663	T18	Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:31 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-dZ4cpd?CePC2sMM4rmQtQ2xkFUjNr?HJ5QDJT?yMrQo

1-4-0	2-3-8	5-6-0	9-0-0	15-6-0	23-1-0	30-8-0	34-11-8	39-8-0
1-4-0	2-3-8	3-2-8	3-6-0	6-6-0	7-7-0	7-7-0	4-3-8	4-8-8

Scale = 1:70.1



2-3-8	9-0-0	15-6-0	17-8-0	23-1-0	30-8-0	39-8-0
2-3-8	6-8-8	6-6-0	2-2-0	5-5-0	7-7-0	9-0-0

Plate Offsets (X,Y)-- [3:0-0-5,0-2-0], [5:0-6-0,0-2-4], [9:0-6-0,0-2-4], [11:0-6-0,0-0-3]

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	0.87	Vert(LL)	0.24	3-18	>899	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.47	3-18	>453	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.15	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 213 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	1-5: 2x4 SP No.1
BOT CHORD	2x4 SP No.2 *Except*
	3-19: 2x6 SP No.2
WEBS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 5-17, 8-15, 9-14

REACTIONS. (size) 11=Mechanical, 2=0-3-8, 15=0-3-8
Max Horz 2=143(LC 11)
Max Uplift 11=-265(LC 13), 2=-154(LC 12), 15=-502(LC 9)
Max Grav 11=707(LC 26), 2=503(LC 25), 15=2117(LC 1)

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

TOP CHORD	3-24=-303/127, 3-4=-552/205, 5-6=-128/705, 6-8=-225/960, 8-9=-203/338, 9-10=-791/381, 10-11=-1050/454
BOT CHORD	3-18=-204/509, 6-17=-88/454, 15-16=-617/203, 12-14=-179/632, 11-12=-331/882
WEBS	4-18=-452/226, 5-18=-75/441, 5-17=-994/285, 6-15=-971/333, 8-15=-1355/312, 8-14=-23/547, 9-14=-637/116, 9-12=-50/437, 10-12=-342/191

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 2-7-10, Zone1 2-7-10 to 9-0-0, Zone2 9-0-0 to 14-7-5, Zone1 14-7-5 to 30-8-0, Zone2 30-8-0 to 36-3-5, Zone1 36-3-5 to 39-8-0 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) 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) 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) 11=265, 2=154, 15=502.

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Date:

November 4,2025

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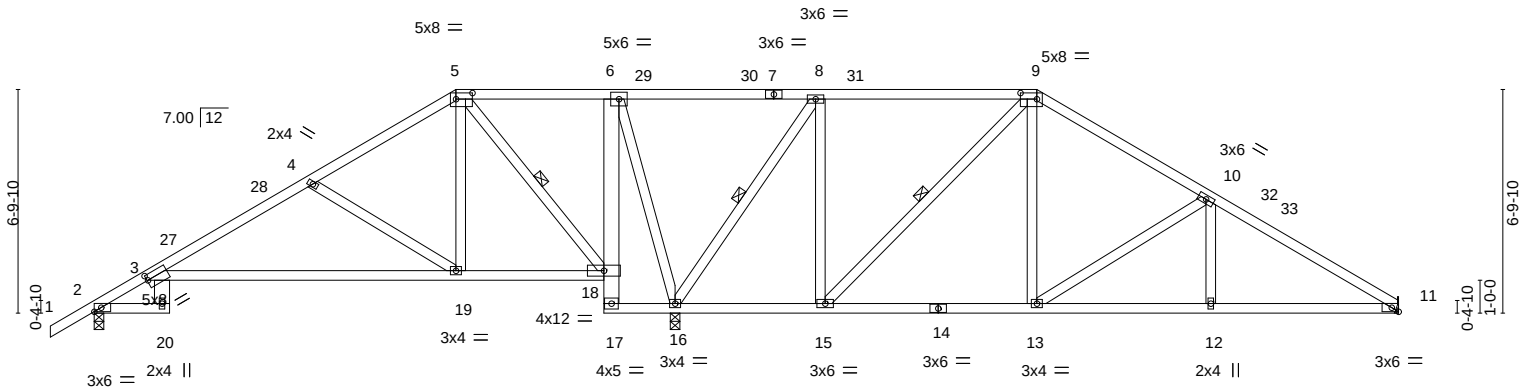
Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067979
4925663	T19	Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:32 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-5md_1z0qPjKvUWxHPUx6zFTwfu14aMiTJ4yt?RyMrQn

1-4-0	2-3-8	6-7-12	11-0-0	15-6-0	22-1-0	28-8-0	33-11-8	39-8-0
1-4-0	2-3-8	4-4-4	4-4-4	4-6-0	6-7-0	6-7-0	5-3-8	5-8-8

Scale = 1:70.1



2-3-8	11-0-0	15-6-0	17-8-0	22-1-0	28-8-0	33-11-8	39-8-0
2-3-8	8-8-8	4-6-0	2-2-0	4-5-0	6-7-0	5-3-8	5-8-8

Plate Offsets (X,Y)-- [3:0-0-5,0-2-0], [5:0-6-0,0-2-4], [9:0-6-0,0-2-4], [11:0-2-8,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	0.83	Vert(LL)	-0.33	3-19	>647	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	-0.66	3-19	>319	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.14	16	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 234 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-20,6-17: 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-7-3 oc bracing.
WEBS 1 Row at midpt 5-18, 8-16, 9-15

REACTIONS. (size) 11=Mechanical, 2=0-3-8, 16=0-3-8
Max Horz 2=172(LC 11)
Max Uplift 11=-264(LC 13), 2=-95(LC 13), 16=-589(LC 12)
Max Grav 11=647(LC 28), 2=346(LC 25), 16=2615(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-63/297, 4-5=-99/629, 5-6=-230/1345, 6-8=-290/1501, 8-9=-161/766, 9-10=-507/382, 10-11=-955/430
BOT CHORD 18-19=-434/164, 6-18=-176/854, 16-17=-1142/326, 15-16=-714/302, 13-15=-212/369, 12-13=-299/767, 11-12=-299/767
WEBS 4-19=-464/243, 5-19=-85/547, 5-18=-1318/319, 6-16=-1119/367, 8-16=-1470/275, 8-15=-81/892, 9-15=-998/176, 9-13=-85/566, 10-13=-600/234

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 2-7-10, Zone1 2-7-10 to 11-0-0, Zone2 11-0-0 to 16-7-5, Zone1 16-7-5 to 28-8-0, Zone2 28-8-0 to 34-3-5, Zone1 34-3-5 to 39-8-0 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) 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) 2 except (jt=lb) 11=264, 16=589.

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:

November 4,2025

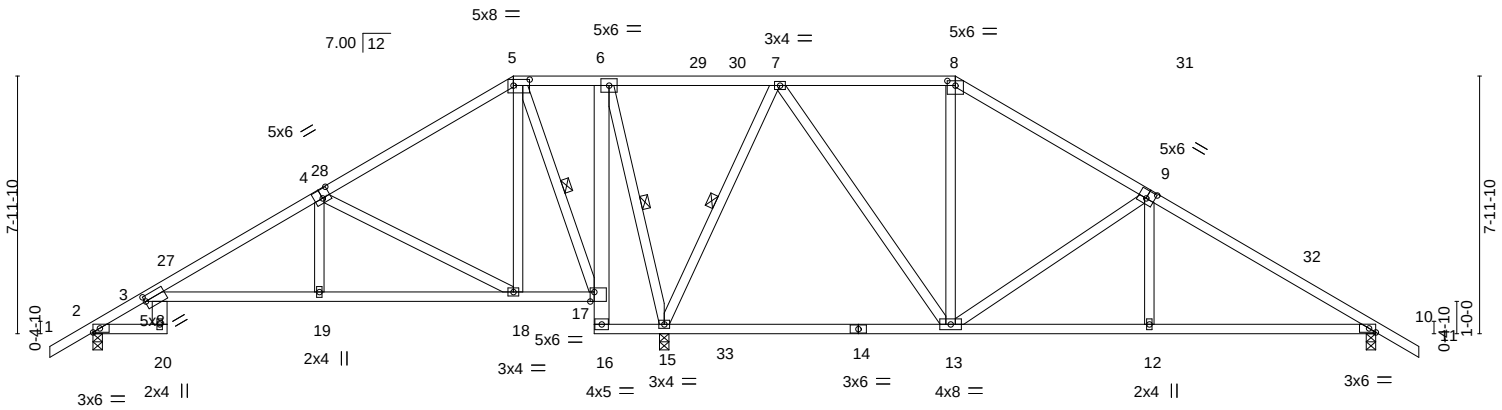
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067980
4925663	T20	Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:33 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-ZyBMEJ1SA1Sl6gWTzBSLVT08QIOXJtBcYkiQYuyMrQm

1-4-0	2-3-8	7-0-0	13-0-0	15-6-0	21-1-0	26-8-0	32-8-0	39-8-0	41-0-0
1-4-0	2-3-8	4-8-8	6-0-0	2-6-0	5-7-0	5-7-0	6-0-0	7-0-0	1-4-0

Scale = 1:71.2



2-3-8	7-0-0	13-0-0	15-6-0	17-8-0	26-8-0	32-8-0	39-8-0
2-3-8	4-8-8	6-0-0	2-6-0	2-2-0	9-0-0	6-0-0	7-0-0

Plate Offsets (X,Y)-- [3:0-0-5,0-2-0], [4:0-3-0,0-3-4], [5:0-6-0,0-2-4], [8:0-3-0,0-1-12], [9:0-3-0,0-3-0], [10:0-2-8,Edge], [17:0-1-8,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	0.64	Vert(LL)	-0.20	13-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.31	13-15	>854	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.09	15	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 247 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 3-20,6-16: 2x6 SP No.2
WEBS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-5-7 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 4-11-13 oc bracing.
WEBS	1 Row at midpt 5-17, 6-15, 7-15

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 10=0-3-8
Max Horz 2=-207(LC 10)
Max Uplift 2=-116(LC 13), 15=-608(LC 12), 10=-308(LC 13)
Max Grav 2=351(LC 20), 15=2624(LC 2), 10=753(LC 20)

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

TOP CHORD	3-22=-288/189, 4-5=-168/905, 5-6=-182/1136, 6-7=-242/1295, 7-8=-254/369, 8-9=-403/398, 9-10=-923/426
BOT CHORD	17-18=-631/252, 16-17=-305/40, 6-17=-260/865, 15-16=-979/327, 13-15=-757/319, 12-13=-278/722, 10-12=-278/723
WEBS	4-19=0/305, 4-18=-788/297, 5-18=-62/424, 5-17=-1145/289, 6-15=-1001/388, 7-15=-1248/265, 7-13=-155/1058, 8-13=-297/117, 9-13=-693/277, 9-12=0/267

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 2-7-10, Zone1 2-7-10 to 13-0-0, Zone2 13-0-0 to 18-7-5, Zone1 18-7-5 to 26-8-0, Zone2 26-8-0 to 32-3-5, Zone1 32-3-5 to 41-0-0 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) 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=116, 15=608, 10=308.

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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:

November 4,2025

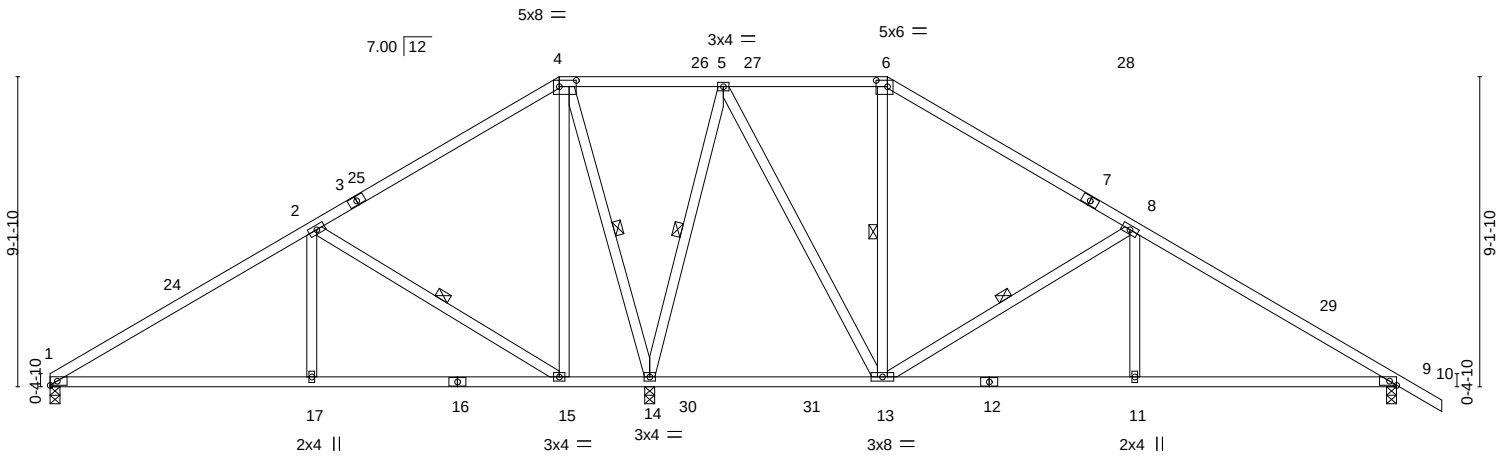
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067981
4925663	T21	Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:33 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-ZyBMEJ1SA1Sl6gWTzBSLVT06JIRyJxwcYkiQYuyMrQm

7-8-8	15-0-0	19-10-0	24-8-0	31-11-8	39-8-0	41-0-0
7-8-8	7-3-8	4-10-0	4-10-0	7-3-8	7-8-8	1-4-0

Scale = 1:67.9



7-8-8	15-0-0	17-8-0	24-8-0	31-11-8	39-8-0
7-8-8	7-3-8	2-8-0	7-0-0	7-3-8	7-8-8

Plate Offsets (X,Y)-- [4:0-6-0,0-2-4], [6:0-4-0,0-2-4], [9:0-2-8,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	0.71	Vert(LL)	-0.11	11-23	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.22	11-23	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 232 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 4-11-4 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 2-15, 4-14, 5-14, 6-13, 8-13

REACTIONS. (size) 1=0-3-8, 14=0-3-8, 9=0-3-8
Max Horz 1=-230(LC 8)
Max Uplift 1=-146(LC 12), 14=-424(LC 12), 9=-267(LC 13)
Max Grav 1=559(LC 19), 14=2165(LC 2), 9=905(LC 20)

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

TOP CHORD	1-2=-668/176, 2-4=0/342, 4-5=0/491, 5-6=-254/257, 6-8=-416/230, 8-9=-1094/340
BOT CHORD	1-17=-191/613, 15-17=-191/613, 14-15=-288/255, 13-14=-284/206, 11-13=-171/872, 9-11=-171/872
WEBS	2-17=0/348, 2-15=-871/333, 4-15=-129/567, 4-14=-1006/291, 5-14=-1070/292, 5-13=-209/938, 8-13=-838/326, 8-11=0/328

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 3-11-10, Zone1 3-11-10 to 15-0-0, Zone2 15-0-0 to 20-7-5, Zone1 20-7-5 to 24-8-0, Zone2 24-8-0 to 30-3-5, Zone1 30-3-5 to 41-0-0 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) Provide adequate drainage to prevent water ponding.
5) All plates are 3x6 MT20 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=146, 14=424, 9=267.

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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:

November 4,2025

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

Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067982
4925663	T22	Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:34 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-18lkRf25xKackq5fXuza2gZLViis2LkmnORz4KyMrQl

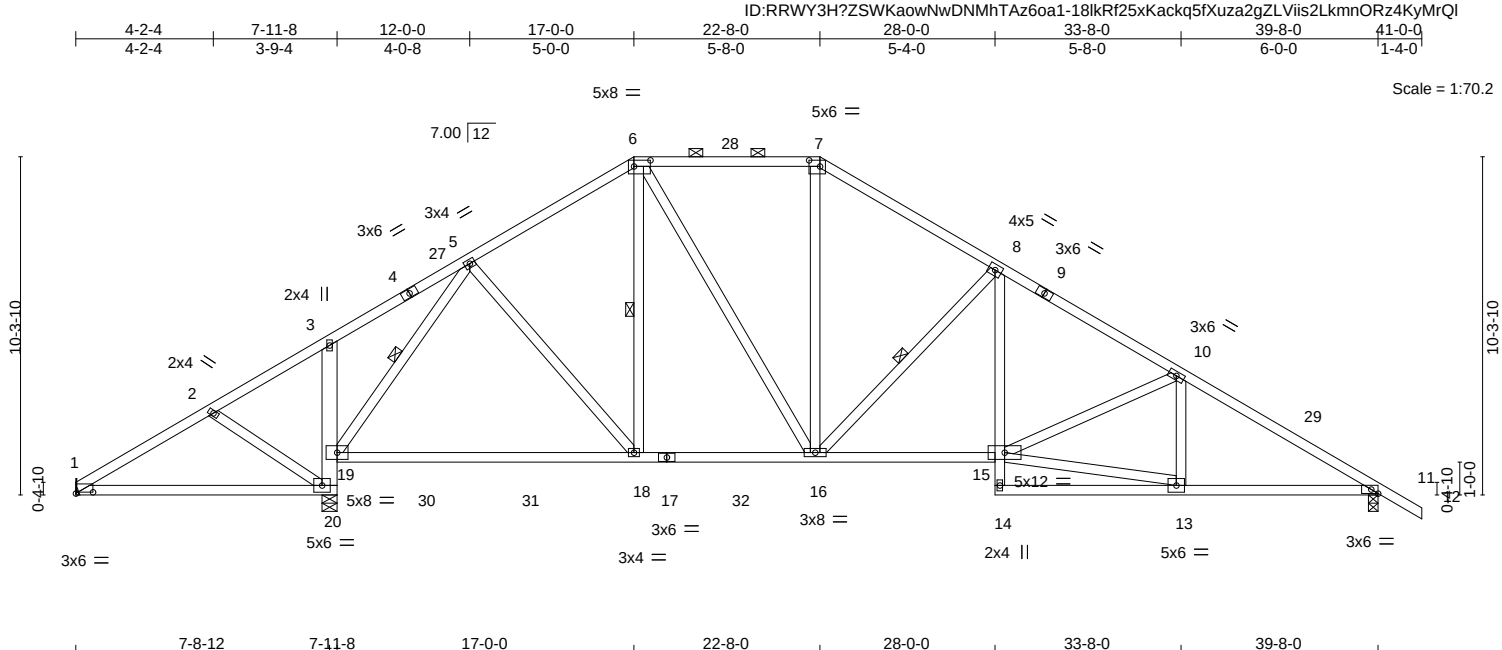

Plate Offsets (X,Y)-- [1:0-6-4,0-0-7], [6:0-6-0,0-2-4], [7:0-4-0,0-2-4], [11:0-2-8,Edge]

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	0.49	Vert(LL)	-0.30	18-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.51	18-19	>745	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.06	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 250 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-20: 2x6 SP No.2, 8-14: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-4 oc purlins, except 2-0-0 oc purlins (4-9-6 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 5-4-6 oc bracing.
WEBS 1 Row at midpt 5-19, 6-18, 8-16

REACTIONS. (size) 1=Mechanical, 11=0-3-8, 20=0-5-8
Max Horz 1=-258(LC 8)
Max Uplift 1=-129(LC 8), 11=-372(LC 13), 20=-437(LC 12)
Max Grav 1=227(LC 25), 11=1485(LC 20), 20=1962(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-96/420, 3-5=-37/420, 5-6=-1221/364, 6-7=-1189/420, 7-8=-1445/432, 8-10=-2087/534, 10-11=-2322/558
BOT CHORD 19-20=-1716/366, 18-19=-131/740, 16-18=-94/996, 15-16=-231/1733, 8-15=-102/635, 11-13=-377/1927
WEBS 2-20=-295/159, 5-19=-1595/291, 5-18=-28/497, 6-16=-163/440, 7-16=-72/447, 8-16=-906/318, 13-15=-362/1865, 10-15=-269/164

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 4-0-10, Zone1 4-0-10 to 17-0-0, Zone3 17-0-0 to 22-8-0, Zone2 22-8-0 to 28-1-12, Zone1 28-1-12 to 41-0-0 zone; 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) 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=129, 11=372, 20=437.
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:

November 4,2025

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

Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067983
4925663	T23	Piggyback Base	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:35 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-WLJ6f?2jieiTLzgr4cUpau5WI625noyv?2BXcmyMrQk

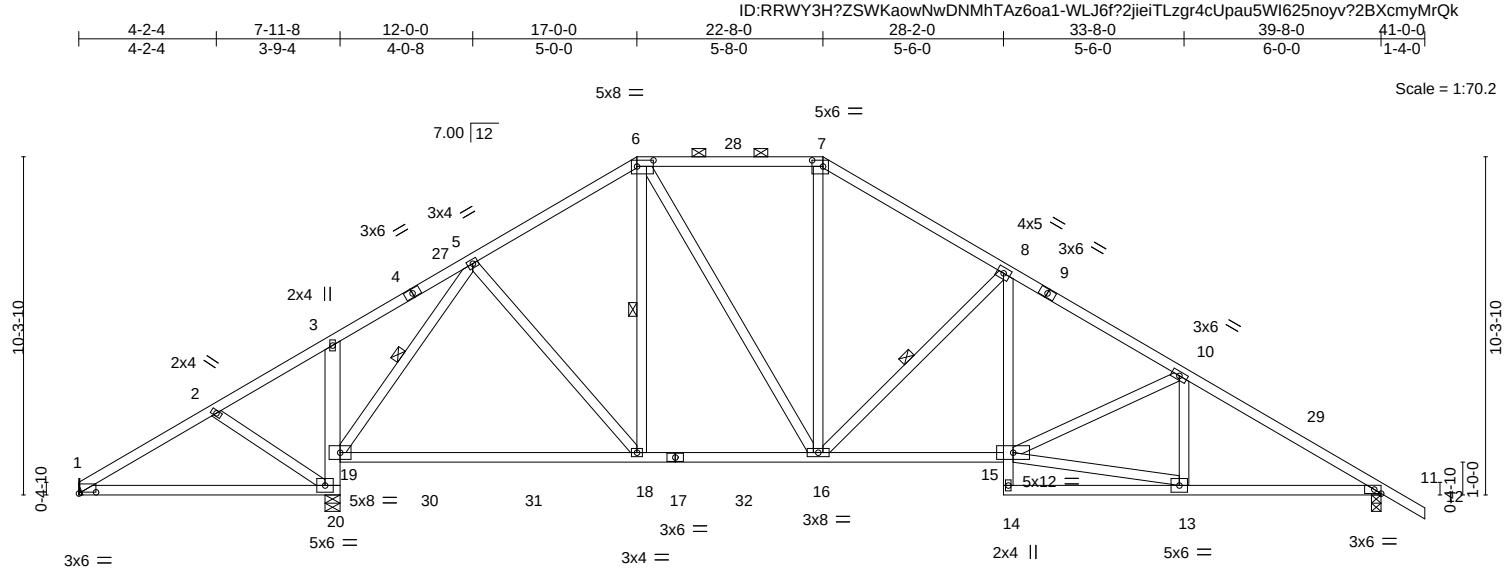

Plate Offsets (X,Y)-- [1:0-6-4,0-0-7], [6:0-6-0,0-2-4], [7:0-4-0,0-2-4], [11:0-2-8,Edge]

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	0.48	Vert(LL)	-0.30	18-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.52	18-19	>744	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.07	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 250 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-20: 2x6 SP No.2, 8-14: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-1 oc purlins, except 2-0-0 oc purlins (4-9-7 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 5-4-6 oc bracing.
WEBS 1 Row at midpt 5-19, 6-18, 8-16

REACTIONS. (size) 1=Mechanical, 11=0-3-8, 20=0-5-8
Max Horz 1=-258(LC 8)
Max Uplift 1=-129(LC 8), 11=-372(LC 13), 20=-437(LC 12)
Max Grav 1=227(LC 25), 11=1485(LC 20), 20=1962(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-96/421, 3-5=-37/420, 5-6=-1220/364, 6-7=-1189/420, 7-8=-1447/431, 8-10=-2108/539, 10-11=-2320/558
BOT CHORD 19-20=-1717/366, 18-19=-131/739, 16-18=-94/996, 15-16=-239/1753, 8-15=-102/638, 11-13=-376/1925
WEBS 2-20=-295/159, 5-19=-1596/291, 5-18=-28/497, 6-16=-163/441, 7-16=-70/441, 8-16=-916/321, 13-15=-360/1870

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 4-0-10, Zone1 4-0-10 to 17-0-0, Zone3 17-0-0 to 22-8-0, Zone2 22-8-0 to 28-3-12, Zone1 28-3-12 to 41-0-0 zone; 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) 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=129, 11=372, 20=437.
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:

November 4,2025

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

Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067984
4925663	T24	Piggyback Base Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:36 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-_XtUsK3LTyqKz7E2eJ0275ed5VN7WBx3Eiw48CyMrQj

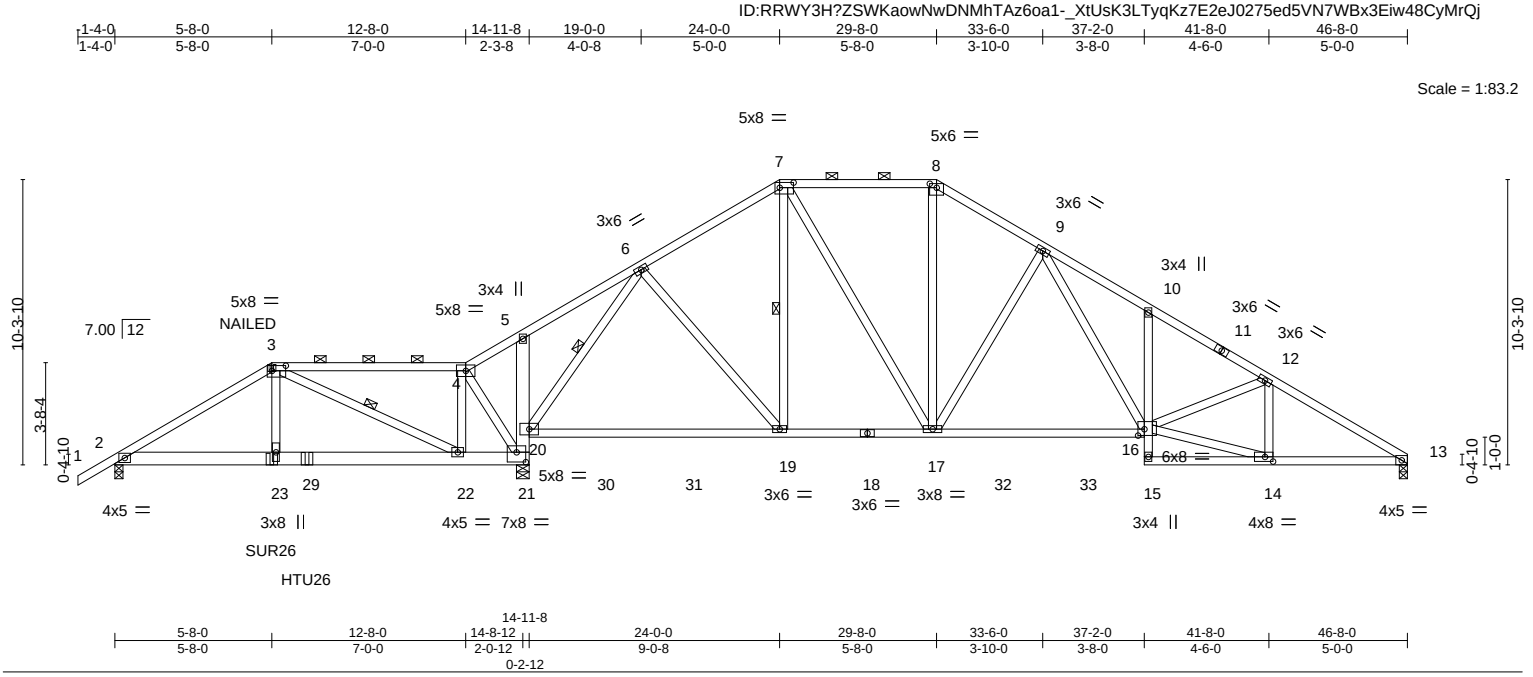

Plate Offsets (X,Y)-- [3:0-6-0,0-2-4], [7:0-6-0,0-2-4], [8:0-3-0,0-1-12], [14:0-3-8,0-2-0], [16:0-2-12,0-2-12], [21:0-4-0,0-4-4]

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	0.74	Vert(LL)	-0.32	19-20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.54	19-20	>714	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.08	13	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 306 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-21,5-21: 2x6 SP No.2, 10-15: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-14 oc purlins, except
2-0-0 oc purlins (4-9-9 max.): 3-4, 7-8.
BOT CHORD Rigid ceiling directly applied or 5-0-13 oc bracing.
WEBS 1 Row at midpt 3-22, 6-20, 7-19

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 21=0-5-8
Max Horz 2=259(LC 7)
Max Uplift 2=-460(LC 8), 13=-318(LC 30), 21=-714(LC 8)
Max Grav 2=1001(LC 21), 13=1417(LC 16), 21=2577(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1539/889, 3-4=-245/390, 4-5=-180/631, 5-6=-147/681, 6-7=-1155/334, 7-8=-1190/382, 8-9=-1412/403, 9-10=-2449/645, 10-12=-2419/549, 12-13=-2401/539
BOT CHORD 2-23=-847/1265, 22-23=-868/1300, 21-22=-311/212, 20-21=-1832/340, 19-20=-159/700, 17-19=-113/979, 16-17=-153/1496, 10-16=-251/164, 13-14=-400/2014
WEBS 3-23=-467/809, 3-22=-1221/657, 4-22=-427/901, 4-21=-1067/623, 6-20=-1875/332, 6-19=-96/612, 7-17=-157/522, 8-17=-111/500, 9-17=-780/308, 9-16=-298/1084, 14-16=-382/2050, 12-14=-295/106

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; porch left exposed; 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=460, 13=318, 21=714.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Use Simpson Strong-Tie SUR26 (6-10dx1 1/2 Girder, 6-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 5-8-0 from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
10) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent at 6-11-4 from the left end to connect truss(es) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
13) 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

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Date:

November 4,2025

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: 1-3=-60, 3-4=-60, 4-7=-60, 7-8=-60, 8-13=-60, 2-21=-20, 16-20=-20, 15-26=-20
   Concentrated Loads (lb)
   Vert: 3=-105(B) 23=-251(B) 29=-409(B)

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Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067985
4925663	T25	Piggyback Base	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:36 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-_XtUsK3LTyqKz7E2eJ0275ed4VOYWCs3Eiw48CyMrQj

1-4-0	7-8-0	11-2-12	14-8-0	14-11-8	19-4-0	24-0-0	29-8-0	34-4-0	39-0-0	45-10-0	46-8-0
1-4-0	7-8-0	3-6-12	3-5-4	0-3-8	4-4-8	4-8-0	5-8-0	4-8-0	4-8-0	6-10-0	0-10-0

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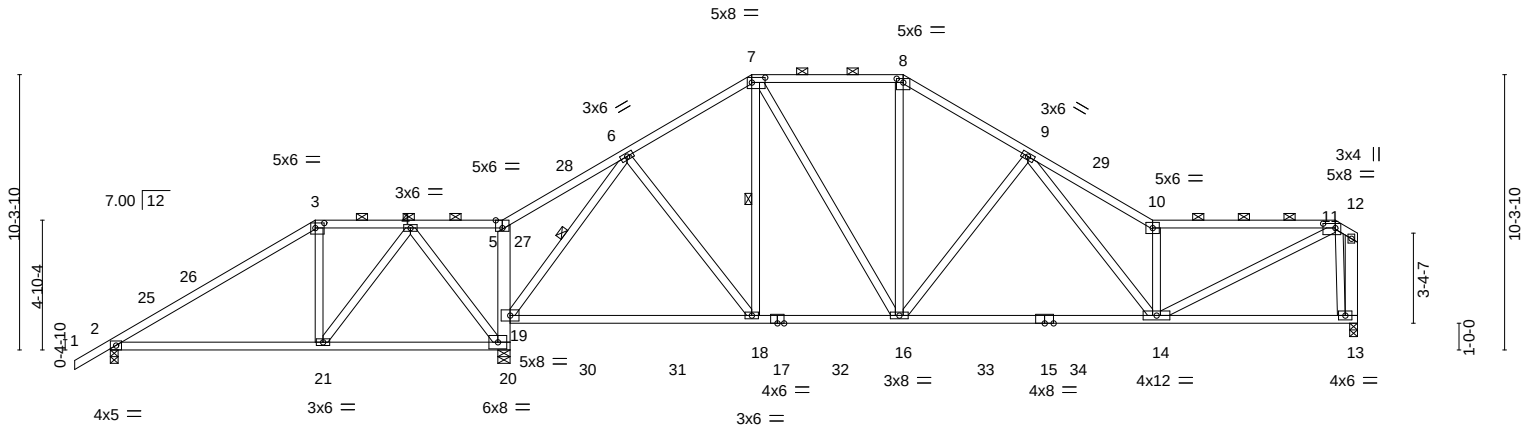

7-8-0	14-8-12	14-11-8	24-0-0	29-8-0	39-0-0	46-8-0
7-8-0	7-0-12	0-2-12	9-0-8	5-8-0	9-4-0	7-8-0

Plate Offsets (X,Y)-- [3:0-4-0,0-2-4], [5:0-3-0,Edge], [7:0-6-0,0-2-4], [8:0-3-0,0-1-12], [11:0-5-8,0-2-0]

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	0.74	Vert(LL)	-0.35	14-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.62	14-16	>615	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.04	13	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 294 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 10-11: 2x4 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 5-20: 2x6 SP No.2, 13-15: 2x4 SP No.1
WEBS	2x4 SP No.3 *Except* 12-13: 2x6 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-5-2 oc purlins, except end verticals, and 2-0-0 oc purlins (3-3-3 max.): 3-5, 7-8, 10-11.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 6-19, 7-18

REACTIONS. (size) 2=0-3-8, 20=0-5-8, 13=0-3-8
Max Horz 2=282(LC 12)
Max Uplift 2=-152(LC 9), 20=-485(LC 12), 13=-307(LC 13)
Max Grav 2=610(LC 25), 20=2216(LC 2), 13=1354(LC 2)

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

TOP CHORD	2-3=-606/278, 3-4=-426/286, 4-5=-107/383, 5-6=-100/509, 6-7=-1184/291, 7-8=-1197/343, 8-9=-1442/352, 9-10=-2703/615, 10-11=-2227/456
BOT CHORD	2-21=-289/429, 19-20=-1586/305, 18-19=-156/706, 16-18=-123/967, 14-16=-300/1595, 13-14=-72/262
WEBS	4-21=-244/503, 4-20=-681/285, 6-19=-1739/322, 6-18=-69/522, 7-16=-146/485, 8-16=-73/464, 9-16=-711/300, 9-14=-264/1144, 10-14=-1599/468, 11-14=-419/2226, 11-13=-1323/404

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 3-4-0, Zone1 3-4-0 to 7-8-0, Zone2 7-8-0 to 14-3-3, Zone1 14-3-3 to 24-0-0, Zone3 24-0-0 to 29-8-0, Zone2 29-8-0 to 36-3-3, Zone1 36-3-3 to 45-10-0, Zone3 45-10-0 to 46-5-4 zone; 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) except (jt=lb) 2=152, 20=485, 13=307.
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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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 4,2025

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16023 Swingley Ridge Rd.
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Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067986
4925663	T26	Piggyback Base	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:37 2025 Page 1
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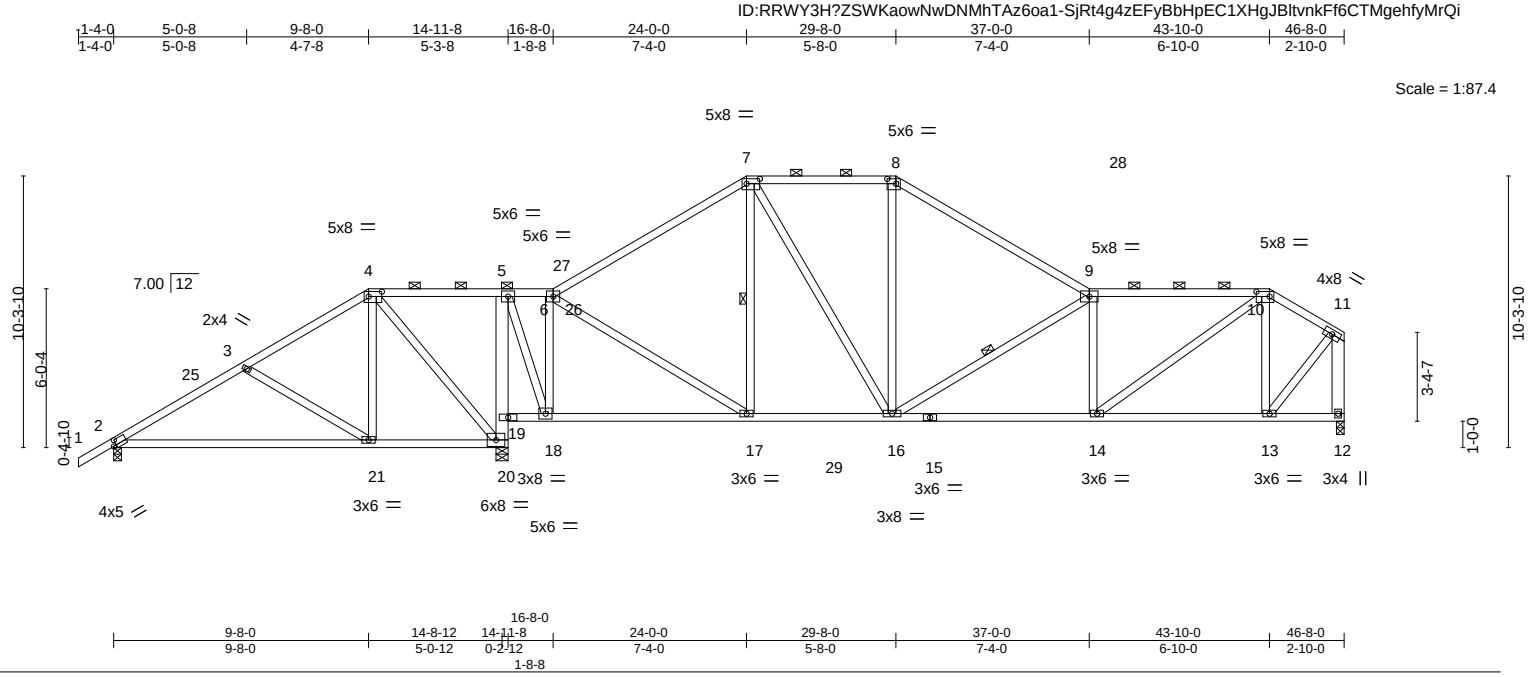

Plate Offsets (X,Y)-- [2:0-1-7,0-2-8], [4:0-6-0,0-2-4], [7:0-6-0,0-2-4], [8:0-4-0,0-2-4], [10:0-6-0,0-2-4]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.93	Vert(LL)	0.19	21-24	>929	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.38	21-24	>471	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.03	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*
5-20: 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
11-12: 2x6 SP No.2

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

REACTIONS. (size) 2=0-3-8, 20=0-5-8, 12=0-3-8
Max Horz 2=282(LC 12)
Max Uplift 2=-123(LC 9), 20=-532(LC 12), 12=-301(LC 13)
Max Grav 2=562(LC 27), 20=2229(LC 2), 12=1291(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-564/245, 3-4=-278/177, 4-5=-134/435, 6-7=-1095/262, 7-8=-1100/340, 8-9=-1361/315, 9-10=-1815/434, 10-11=-842/209, 11-12=-1272/304
BOT CHORD 2-21=-312/463, 19-20=-1598/343, 5-19=-1581/316, 18-19=-451/131, 16-17=-104/863, 14-16=-381/1832, 13-14=-147/691
WEBS 3-21=-379/215, 4-21=-262/486, 4-20=-804/370, 5-18=-281/1510, 6-18=-1236/330, 6-17=-136/882, 7-17=-302/110, 7-16=-157/497, 8-16=-20/350, 9-16=-872/315, 9-14=-583/208, 10-14=-279/1377, 10-13=-656/204, 11-13=-229/1081

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 3-4-0, Zone1 3-4-0 to 9-8-0, Zone2 9-8-0 to 16-3-3, Zone1 16-3-3 to 24-0-0, Zone3 24-0-0 to 29-8-0, Zone2 29-8-0 to 36-3-3, Zone1 36-3-3 to 43-10-0, Zone3 43-10-0 to 46-5-4 zone; 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) except (jt=lb) 2=123, 20=532, 12=301.
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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Date:

November 4,2025

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16023 Swingley Ridge Rd.
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Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067987
4925663	T27	Piggyback Base	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:38 2025 Page 1
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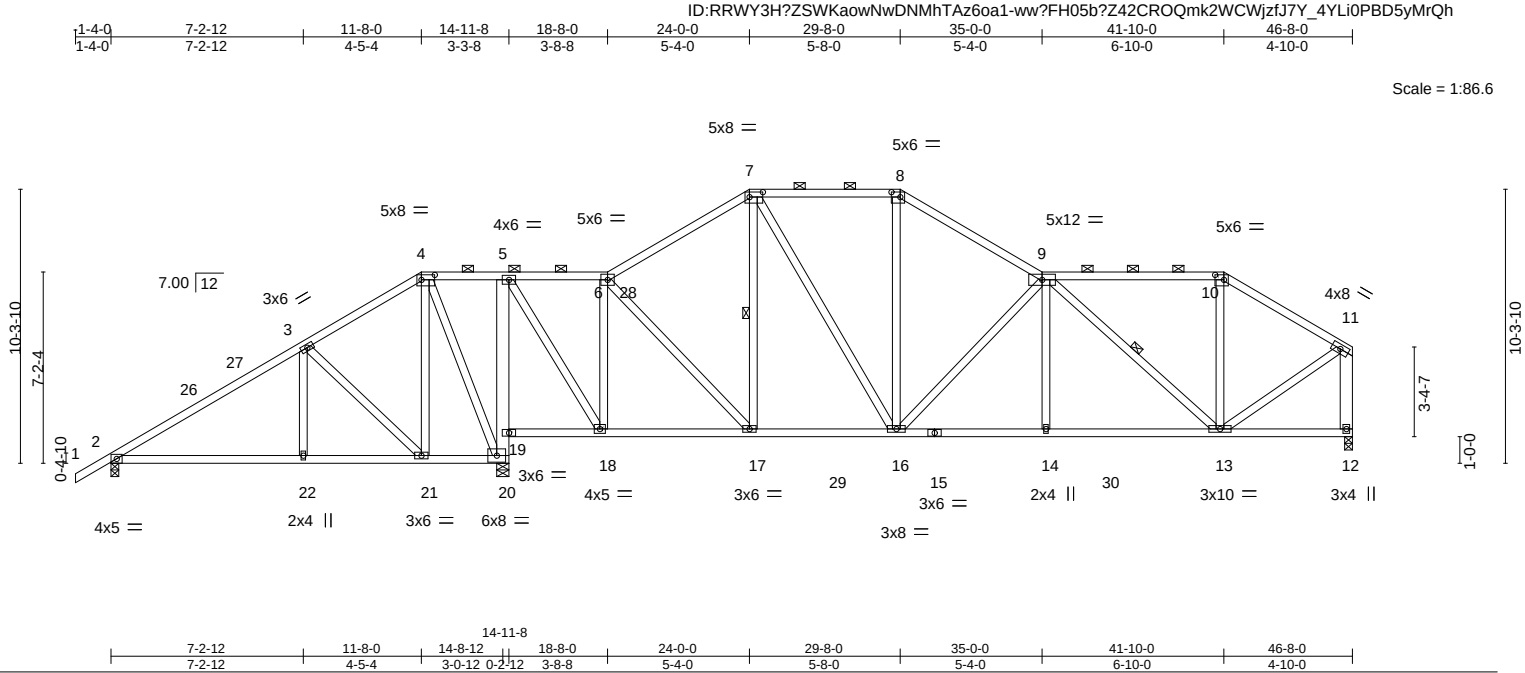

Plate Offsets (X,Y)-- [4:0-6-0,0-2-4], [7:0-6-0,0-2-4], [8:0-4-0,0-2-4], [10:0-4-0,0-2-4]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	0.11	22-25	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.18	22-25	>958	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.02	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 325 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 5-20: 2x6 SP No.2
WEBS	2x4 SP No.3 *Except* 11-12: 2x6 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-8-10 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-9 max.): 4-6, 7-8, 9-10.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 20-21,18-19 5-5-12 oc bracing: 19-20.
WEBS	1 Row at midpt 7-17, 9-13

REACTIONS. (size) 2=0-3-8, 20=0-5-8, 12=0-3-8
Max Horz 2=282(LC 12)
Max Uplift 2=-127(LC 12), 20=-521(LC 12), 12=-307(LC 13)
Max Grav 2=553(LC 25), 20=2256(LC 2), 12=1309(LC 2)

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

TOP CHORD	2-3=-533/253, 4-5=-99/385, 5-6=-459/174, 6-7=-1056/285, 7-8=-1098/346, 8-9=-1333/345, 9-10=-925/287, 10-11=-1118/280, 11-12=-1245/317
BOT CHORD	2-22=-271/382, 21-22=-271/382, 19-20=-1573/314, 5-19=-1497/318, 18-19=-390/105, 17-18=-79/464, 16-17=-116/854, 14-16=-312/1622, 13-14=-311/1628
WEBS	3-22=-136/283, 3-21=-566/329, 4-21=-273/500, 4-20=-712/312, 5-18=-281/1528, 6-18=-1142/275, 6-17=-78/577, 7-17=-253/91, 7-16=-145/508, 8-16=-50/378, 9-16=-778/281, 9-14=0/287, 9-13=-937/172, 10-13=0/278, 11-13=-205/1080

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 3-4-0, Zone1 3-4-0 to 11-8-0, Zone2 11-8-0 to 18-3-3, Zone1 18-3-3 to 24-0-0, Zone3 24-0-0 to 35-0-0, Zone1 35-0-0 to 41-10-0, Zone3 41-10-0 to 46-5-4 zone; 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) except (jt=lb) 2=127, 20=521, 12=307.
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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Date:

November 4,2025

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067988
4925663	T28	Piggyback Base	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:39 2025 Page 1
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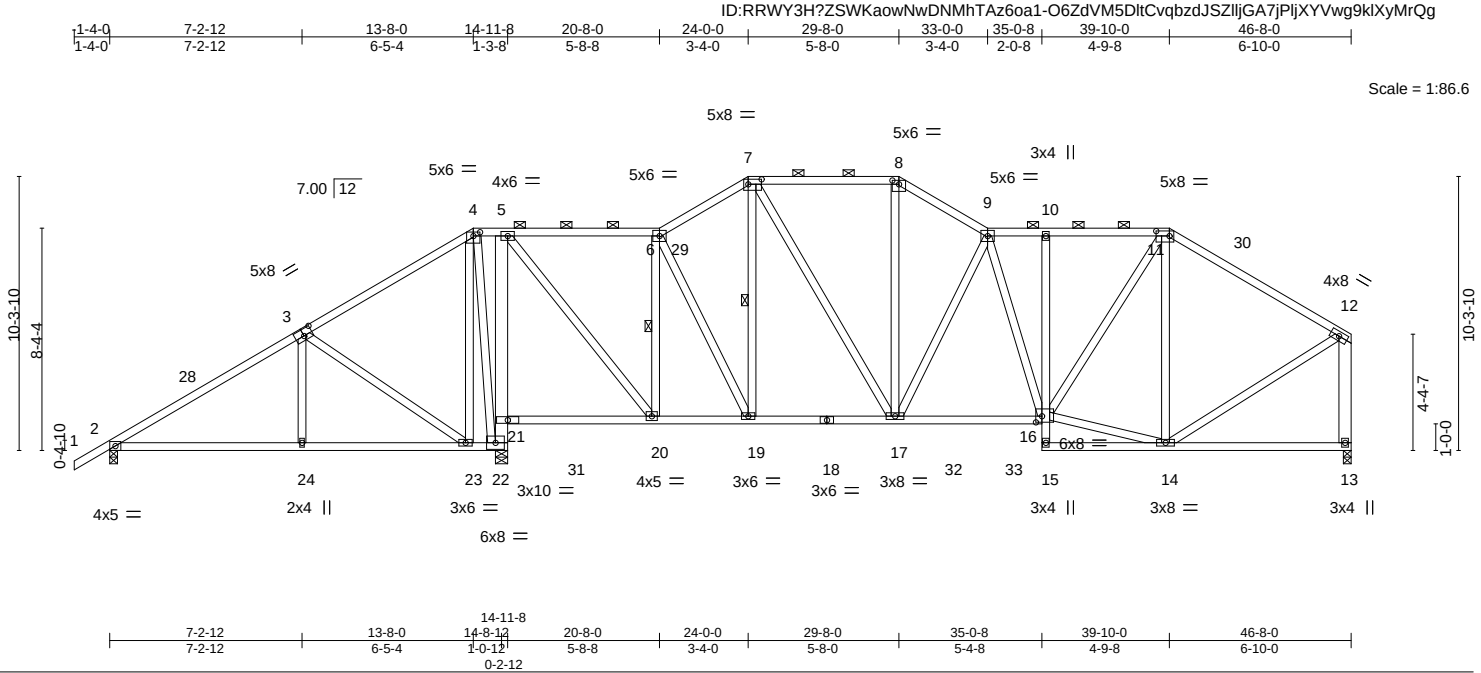

Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [4:0-3-0,0-1-12], [7:0-6-0,0-2-4], [8:0-3-0,0-1-12], [11:0-6-0,0-2-4], [16:0-2-12,0-2-12]

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	0.62	Vert(LL)	-0.10	16-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.17	16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.03	13	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 365 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 5-22: 2x6 SP No.2, 10-15: 2x4 SP No.3
WEBS	2x4 SP No.3 *Except* 12-13: 2x6 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-2-4 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-8 max.): 4-6, 7-8, 9-11.
BOT CHORD	Rigid ceiling directly applied or 5-6-1 oc bracing.
WEBS	1 Row at midpt 6-20, 7-19

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 22=0-5-8
Max Horz 2=282(LC 12)
Max Uplift 2=-112(LC 12), 13=-304(LC 13), 22=-542(LC 12)
Max Grav 2=480(LC 25), 13=1274(LC 2), 22=2420(LC 2)

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

TOP CHORD	2-3=-404/222, 3-4=-110/491, 4-5=-77/455, 5-6=-559/209, 6-7=-938/289, 7-8=-1051/339, 8-9=-1232/353, 9-10=-1281/378, 10-11=-1277/379, 11-12=-1068/284, 12-13=-1163/322
BOT CHORD	2-24=-242/274, 23-24=-242/274, 22-23=-365/111, 21-22=-1704/352, 5-21=-1514/350, 20-21=-449/123, 19-20=-93/581, 17-19=-123/773, 16-17=-232/1323
WEBS	3-24=-145/313, 3-23=-663/372, 4-23=-275/488, 4-22=-780/336, 5-20=-276/1590, 6-20=-1053/249, 6-19=-71/465, 7-19=-294/87, 7-17=-144/562, 8-17=-81/361, 9-17=-630/268, 14-16=-144/852, 11-16=-159/795, 11-14=-490/157, 12-14=-158/944

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 3-4-0, Zone1 3-4-0 to 13-8-0, Zone2 13-8-0 to 20-3-3, Zone1 20-3-3 to 24-0-0, Zone3 24-0-0 to 33-0-0, Zone1 33-0-0 to 39-10-0, Zone3 39-10-0 to 46-5-4 zone; 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) except (jt=lb) 2=112, 13=304, 22=542.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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:

November 4,2025

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

Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067989
4925663	T29	Piggyback Base	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:40 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-sI6?ii6sWAKmSlYpt94_HxpJD7m6S5Je9KuIH_yMrQf

1-4-0	7-2-12	14-11-8	15-8-0	22-8-0	24-0-0	29-8-0	31-0-0	35-0-8	37-10-0	42-1-4	46-8-0
1-4-0	7-2-12	7-8-12	0-8-8	7-0-0	1-4-0	5-8-0	1-4-0	4-0-8	2-9-8	4-3-4	4-6-12

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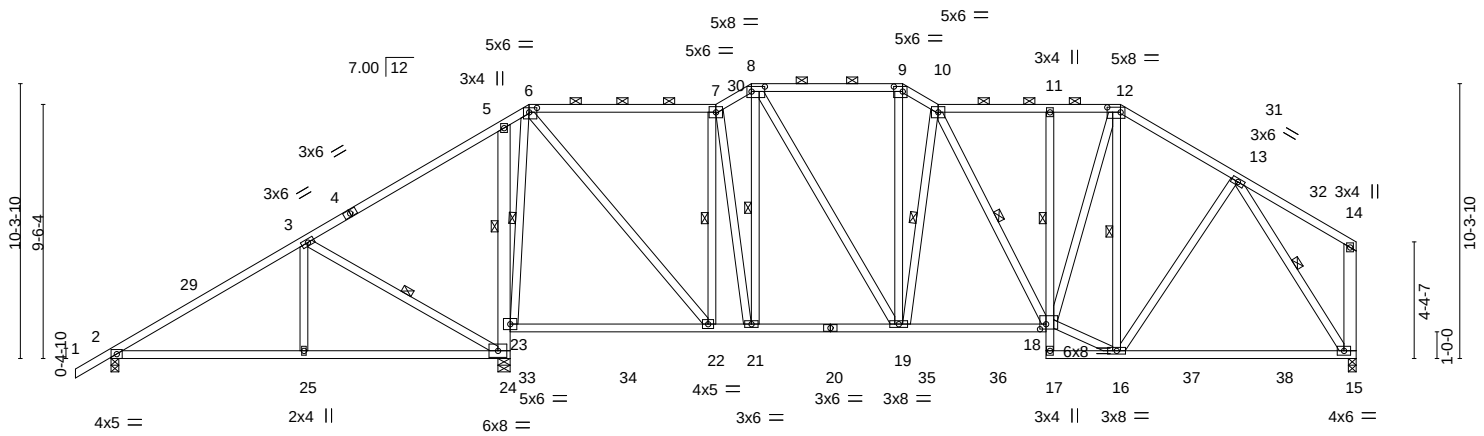

7-2-12	14-8-12	14-11-8	22-8-0	24-0-0	29-8-0	35-0-8	37-10-0	46-8-0
7-2-12	7-6-0	0-2-12	7-8-8	1-4-0	5-8-0	5-4-8	2-9-8	8-10-0

Plate Offsets (X,Y)-- [6:0-3-8,0-2-0], [8:0-6-0,0-2-4], [9:0-4-0,0-2-4], [12:0-6-0,0-2-4], [18:0-2-12,0-2-4]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	-0.24	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.40	15-16	>963	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.04	15	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 378 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 5-24: 2x6 SP No.2, 11-17: 2x4 SP No.3
WEBS	2x4 SP No.3 *Except* 14-15: 2x6 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-11-11 oc purlins, except end verticals, and 2-0-0 oc purlins (4-7-5 max.): 6-7, 8-9, 10-12.
BOT CHORD	Rigid ceiling directly applied or 5-1-2 oc bracing. Except: 1 Row at midpt 5-23, 11-18
WEBS	1 Row at midpt 3-24, 6-23, 7-22, 8-21, 10-19, 10-18, 12-16, 13-15

REACTIONS. (size) 2=0-3-8, 24=0-5-8, 15=0-3-8
Max Horz 2=282(LC 12)
Max Uplift 2=-113(LC 9), 24=-545(LC 12), 15=-311(LC 13)
Max Grav 2=558(LC 25), 24=2301(LC 2), 15=1363(LC 2)

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

TOP CHORD	2-3=-559/277, 3-5=-122/434, 5-6=-43/316, 6-7=-857/264, 7-8=-1058/323, 8-9=-1150/352, 9-10=-1307/386, 10-11=-1179/378, 11-12=-1173/376, 12-13=-1154/345
BOT CHORD	2-25=-273/408, 24-25=-273/408, 23-24=-1843/419, 5-23=-408/218, 21-22=-138/872, 19-21=-145/885, 18-19=-180/1250, 15-16=-165/732
WEBS	3-25=-156/342, 3-24=-705/388, 6-23=-1418/303, 6-22=-244/1479, 7-22=-837/236, 8-19=-135/535, 9-19=-127/429, 10-19=-602/283, 16-18=-121/1057, 12-18=-210/776, 12-16=-389/156, 13-16=-92/375, 13-15=-1275/303

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 3-4-0, Zone1 3-4-0 to 15-8-0, Zone2 15-8-0 to 22-3-3, Zone1 22-3-3 to 24-0-0, Zone3 24-0-0 to 31-0-0, Zone1 31-0-0 to 37-10-0, Zone2 37-10-0 to 44-5-3, Zone1 44-5-3 to 46-5-4 zone; 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) except (jt=lb) 2=113, 24=545, 15=311.
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
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 4,2025

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

Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067990
4925663	T30	Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:40 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-sI6?ii6sWAKmSlYpt94_HxpLD7mpS2ue9KuIH_yMrQf

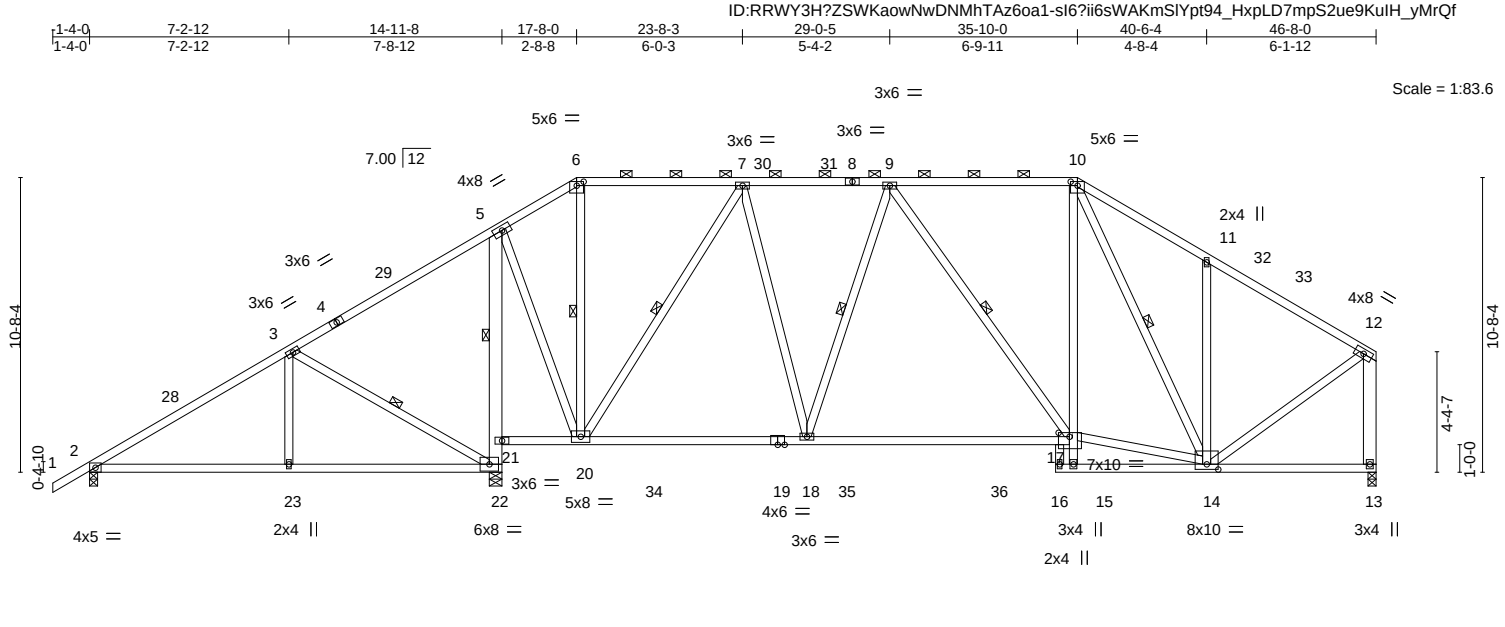

Plate Offsets (X,Y)-- [6:0-3-0,0-1-12], [10:0-3-0,0-1-12], [14:0-5-0,0-2-4], [17:0-4-12,0-1-12]

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	0.60	Vert(LL)	-0.34	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.55	17-18	>686	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.04	13	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 343 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
5-22: 2x6 SP No.2, 10-15: 2x4 SP No.3, 17-19: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
12-13: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-10 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-5 max.): 6-10.
BOT CHORD Rigid ceiling directly applied or 5-4-3 oc bracing. Except:
1 Row at midpt 5-21
10-0-0 oc bracing: 15-17
WEBS 1 Row at midpt 3-22, 6-20, 7-20, 9-18, 9-17, 10-14

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 22=0-5-8
Max Horz 2=288(LC 12)
Max Uplift 2=-109(LC 12), 13=-329(LC 13), 22=-575(LC 12)
Max Grav 2=600(LC 27), 13=1383(LC 28), 22=2218(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-611/268, 3-5=-143/329, 5-6=-407/199, 6-7=-338/182, 7-9=-1100/336, 9-10=-1087/391, 10-11=-1112/444, 11-12=-1117/295, 12-13=-1287/343
BOT CHORD 2-23=-263/498, 22-23=-263/498, 21-22=-1757/447, 5-21=-1730/446, 18-20=-186/935, 17-18=-220/1165, 10-17=-104/647
WEBS 3-23=-155/340, 3-22=-709/374, 5-20=-237/1288, 7-20=-1139/274, 7-18=-126/691, 9-18=-310/191, 11-14=-379/256, 12-14=-206/1072, 14-17=-135/1174, 10-14=-464/185

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 3-4-0, Zone1 3-4-0 to 17-8-0, Zone2 17-8-0 to 24-3-3, Zone1 24-3-3 to 35-8-4, Zone2 35-8-4 to 42-3-7, Zone1 42-3-7 to 46-5-4 zone; 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) except (jt=lb) 2=109, 13=329, 22=575.
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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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 4,2025

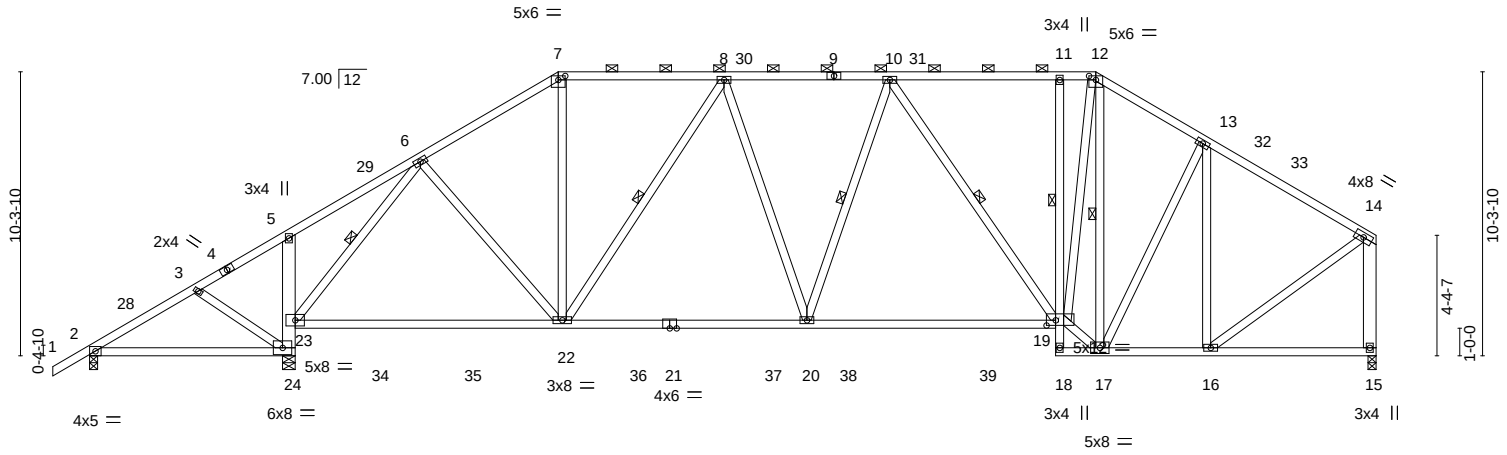
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067991
4925663	T31	Piggyback Base	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:41 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-KVgNv27UHUSd3v7?RtbDq8LZgW6GBUKoO_erqQyMrQe

1-4-0	3-11-4	7-5-8	12-0-0	17-0-0	23-0-3	29-0-5	35-0-8	36-6-0	40-6-4	46-8-0
1-4-0	3-11-4	3-6-4	4-6-8	5-0-0	6-0-3	6-0-3	6-0-3	1-5-8	4-0-4	6-1-12

Scale = 1:83.6



7-2-12	7-5-8	17-0-0	26-0-4	35-0-8	36-6-0	40-6-4	46-8-0
7-2-12	0-2-12	9-6-8	9-0-4	9-0-4	1-5-8	4-0-4	6-1-12

Plate Offsets (X,Y)-- [7:0-3-0,0-1-12], [12:0-3-0,0-1-12], [19:0-4-0,0-2-4]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.31	19-20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	-0.55	19-20	>853	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.11	15	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 344 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 5-24: 2x6 SP No.2, 21-23,19-21: 2x4 SP No.1, 11-18: 2x4 SP No.3
WEBS	2x4 SP No.3 *Except* 14-15: 2x6 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-3-1 oc purlins, except end verticals, and 2-0-0 oc purlins (4-0-5 max.): 7-12.
BOT CHORD	Rigid ceiling directly applied or 4-10-9 oc bracing. Except: 1 Row at midpt 11-19
WEBS	1 Row at midpt 6-23, 8-22, 10-20, 10-19, 12-17

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 24=0-5-8
Max Horz 2=282(LC 12)
Max Uplift 2=-71(LC 8), 15=-377(LC 13), 24=-591(LC 12)
Max Grav 2=269(LC 25), 15=1719(LC 2), 24=2255(LC 2)

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

TOP CHORD	3-5=-176/372, 5-6=-101/354, 6-7=-1720/414, 7-8=-1436/401, 8-10=-1927/441, 10-11=-1574/459, 11-12=-1560/456, 12-13=-1569/454, 13-14=-1418/339, 14-15=-1617/392
BOT CHORD	23-24=-2010/531, 5-23=-262/176, 22-23=-285/1069, 20-22=-403/1830, 19-20=-387/1882, 11-19=-262/152, 16-17=-220/1165
WEBS	3-24=-256/139, 6-23=-2070/486, 6-22=-122/603, 7-22=-97/581, 8-22=-767/280, 8-20=-81/356, 10-19=-592/223, 17-19=-187/1651, 12-19=-410/1730, 12-17=-1043/260, 13-17=-172/360, 13-16=-627/185, 14-16=-252/1384

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 3-4-0, Zone1 3-4-0 to 17-0-0, Zone2 17-0-0 to 23-7-3, Zone1 23-7-3 to 36-6-0, Zone2 36-6-0 to 43-1-3, Zone1 43-1-3 to 46-5-4 zone; 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 3x6 MT20 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 15=377, 24=591.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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:

November 4,2025

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	SMITH RES.
4925663	T32	Common Girder	1	2	T39067992

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:42 2025 Page 1
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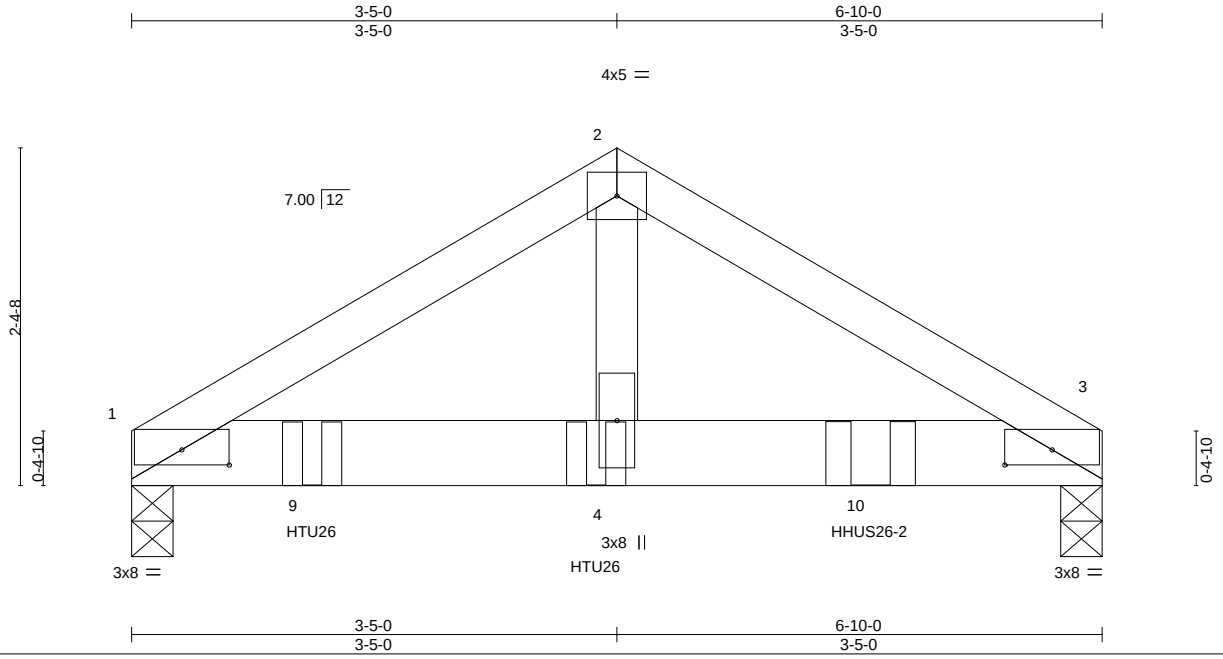

Plate Offsets (X,Y)-- [1:0-4-0,0-1-5], [3:0-4-0,0-1-5]

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)	-0.02	4-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.04	4-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.37	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 61 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 3=0-3-8
Max Horz 1=49(LC 26)
Max Uplift 1=-564(LC 8), 3=-712(LC 9)
Max Grav 1=1478(LC 1), 3=1862(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2194/841, 2-3=-2171/832
BOT CHORD 1-4=-697/1871, 3-4=-697/1871
WEBS 2-4=-756/1956

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: 2x6 - 2 rows staggered at 0-7-0 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; 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) 1=564, 3=712.
9) Use Simpson Strong-Tie HTU26 (10-10d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-3-4 from the left end to 3-3-4 to connect truss(es) to back face of bottom chord.
10) Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 5-2-7 from the left end to connect truss(es) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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Date:

November 4,2025

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: 1-2=-60, 2-3=-60, 1-3=-20
   Concentrated Loads (lb)
   Vert: 4=-687(B) 9=-624(B) 10=-1484(B)

Job	Truss	Truss Type	Qty	Ply	SMITH RES.
4925663	T32G	Common Supported Gable	1	1	T39067993

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:42 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-ohEm7O862oaUh2iC?a6SNMunjwe2w6kxceNOMsyMrQd

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1-4-0 3-5-0 3-5-0 1-4-0

Scale = 1:18.3

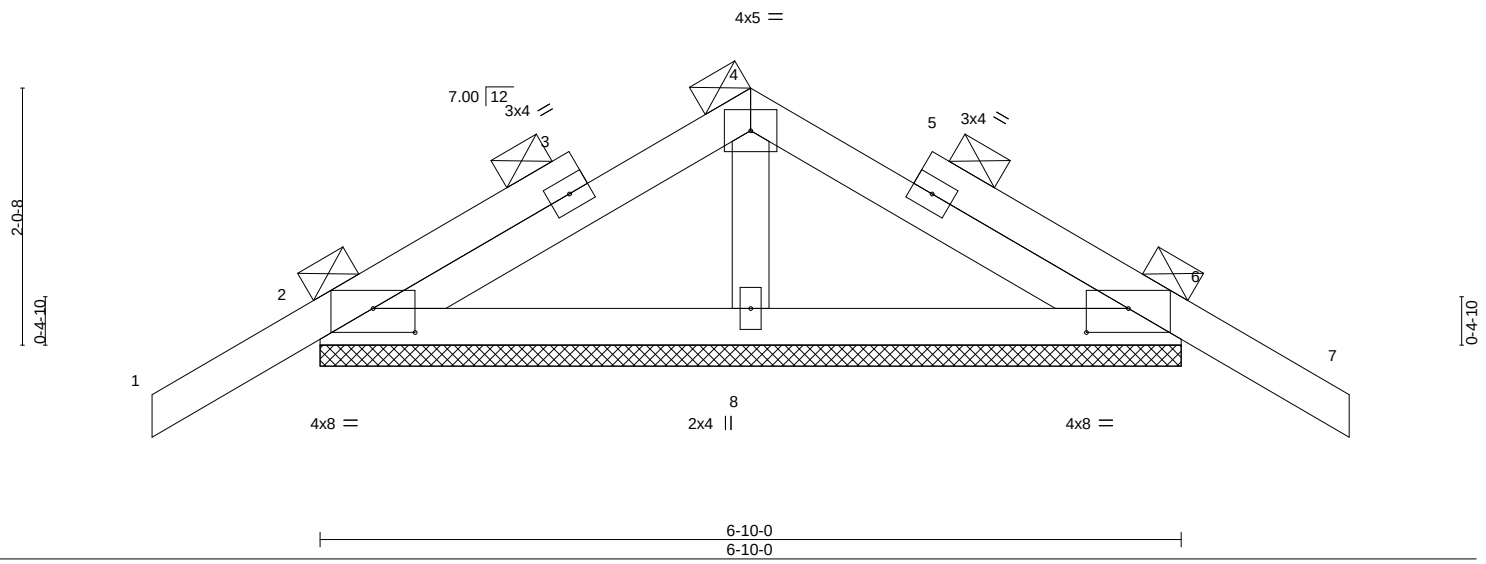

Plate Offsets (X,Y)-- [2:0-4-0,0-2-5], [6:0-4-0,0-2-5]

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)	0.00	6	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	-0.00	6	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-P							Weight: 34 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.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 2=6-10-0, 6=6-10-0, 8=6-10-0
Max Horz 2=60(LC 11)
Max Uplift 2=-70(LC 12), 6=-78(LC 13), 8=-61(LC 12)
Max Grav 2=206(LC 25), 6=206(LC 26), 8=313(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) 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 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 8.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 6.
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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Date:

November 4,2025

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Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067994
4925663	T33	Common	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:43 2025 Page 1
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-Hto8Kk9kp5iLJCHOYHehvZRvbKwWfYG5rI7yulyMrQc

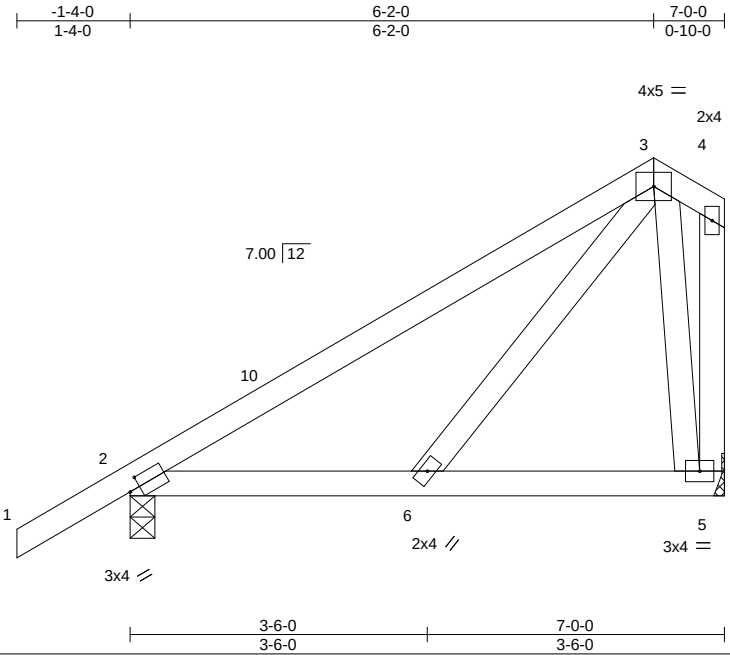

Plate Offsets (X,Y)-- [2:0-1-8,0-1-8]

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	0.33	Vert(LL)	0.02	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.03	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 41 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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 5=Mechanical
Max Horz 2=156(LC 12)
Max Uplift 2=-86(LC 12), 5=-101(LC 12)
Max Grav 2=362(LC 1), 5=268(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-300/62
WEBS 3-5=-374/318

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 1-8-0, Zone1 1-8-0 to 6-2-0, Zone3 6-2-0 to 6-10-4 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) 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) 2 except (jt=lb) 5=101.

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Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067995
4925663	T33G	Monopitch Supported Gable	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:43 2025 Page 1
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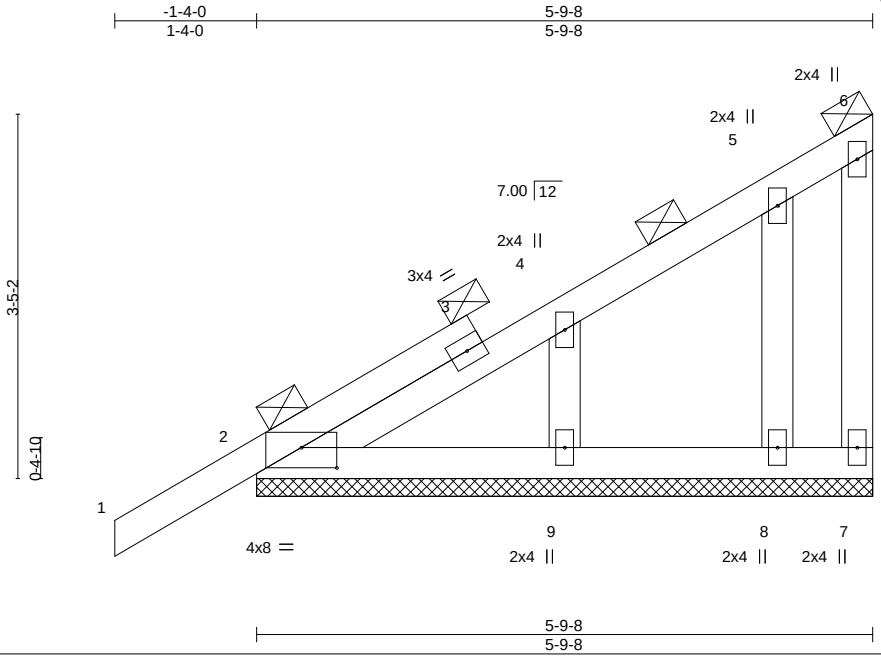

Plate Offsets (X,Y)-- [2:0-4-0,0-2-5]

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	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 33 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 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 5-9-8.
(lb) - Max Horz 2=140(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 7, 9, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 7, 9, 8

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) 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 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7, 9, 8.
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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Date:

November 4,2025

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Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067996
4925663	T34	Common	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:44 2025 Page 1
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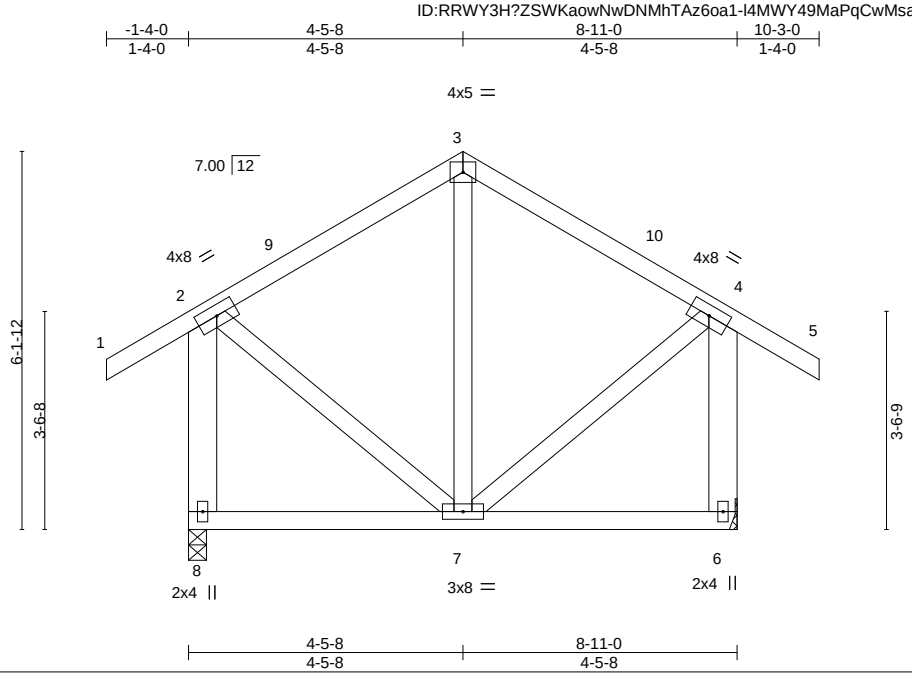

Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

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	0.21	Vert(LL)	-0.01	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	-0.01	7-8	>999	180		
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-MS							Weight: 72 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 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 6=Mechanical
Max Horz 8=205(LC 11)
Max Uplift 8=-120(LC 12), 6=-120(LC 13)
Max Grav 8=432(LC 1), 6=432(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-394/369, 4-6=-394/369

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 1-8-0, Zone1 1-8-0 to 4-5-8, Zone2 4-5-8 to 8-8-4, Zone1 8-8-4 to 10-3-0 zone; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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) 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) 8=120, 6=120.

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Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067997
4925663	T34G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:44 2025 Page 1
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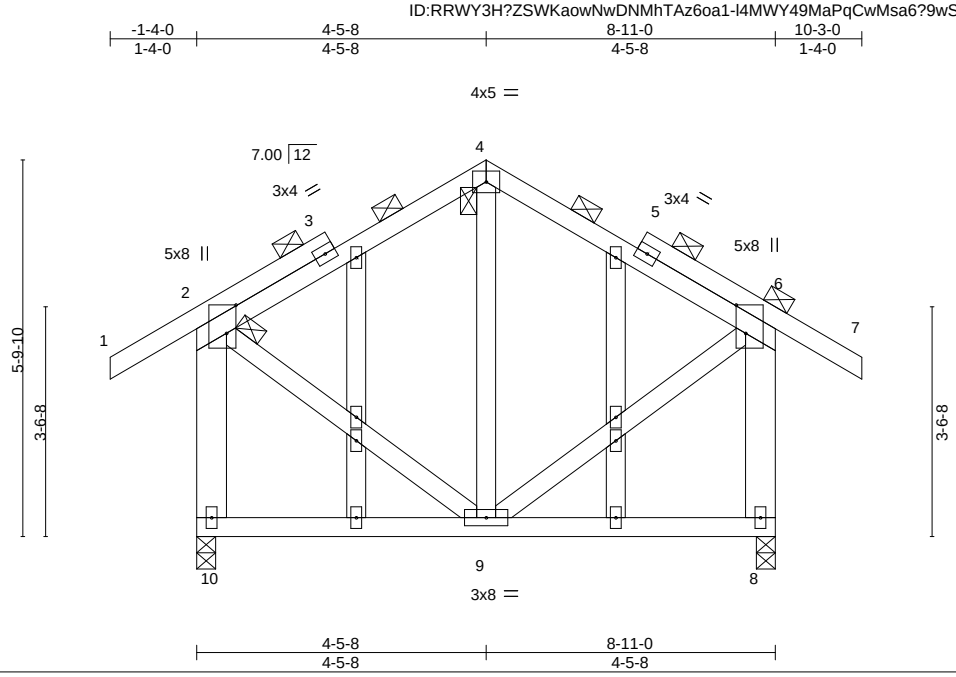

Plate Offsets (X,Y)-- [2:0-5-4,0-1-12], [6:0-5-4,0-1-12], [16:0-0-0,0-0-0], [16:0-0-0,0-0-0]

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	0.18	Vert(LL)	-0.01	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	-0.01	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 88 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 2-10,6-8: 2x6 SP No.2
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.

REACTIONS. (size) 10=0-3-8, 8=0-3-8
Max Horz 10=190(LC 11)
Max Uplift 10=-121(LC 12), 8=-121(LC 13)
Max Grav 10=432(LC 1), 8=432(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-393/350, 6-8=-394/350

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; 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 studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=121, 8=121.
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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Date:

November 4,2025

Job	Truss	Truss Type	Qty	Ply	SMITH RES. T39067998
4925663	T35	Roof Special Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:45 2025 Page 1
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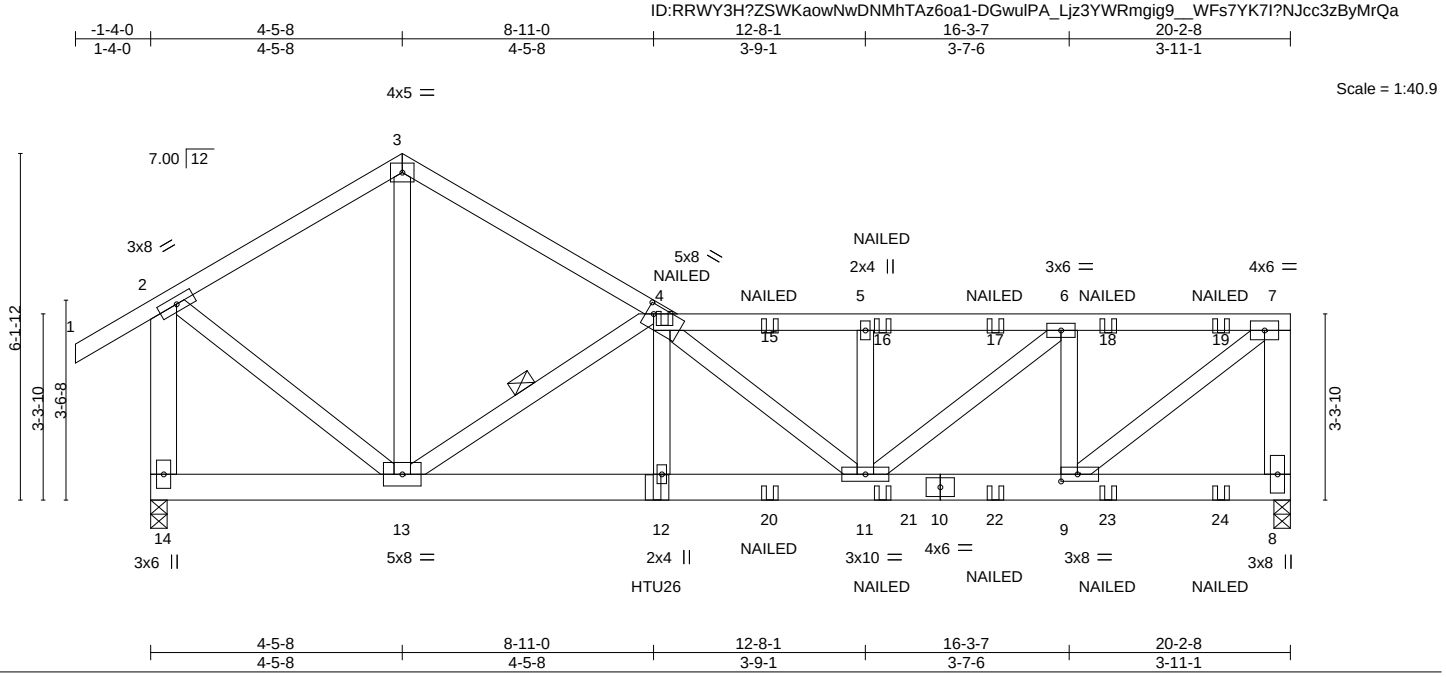

Plate Offsets (X,Y)-- [4:0-1-8,0-2-0], [9:0-3-8,0-1-8]

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	0.35	Vert(LL)	0.10	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.15	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 149 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
7-8,2-14: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-10-12 oc bracing.
WEBS 1 Row at midpt 4-13

REACTIONS. (size) 8=0-3-8, 14=0-3-8
Max Horz 14=-188(LC 6)
Max Uplift 8=-754(LC 5), 14=-437(LC 8)
Max Grav 8=1437(LC 1), 14=1333(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-988/396, 3-4=-988/405, 4-5=-2403/1147, 5-6=-2397/1143, 6-7=-1541/765, 7-8=-1346/702, 2-14=-1295/444
BOT CHORD 12-13=-1150/2562, 11-12=-1147/2553, 9-11=-811/1541
WEBS 3-13=-390/688, 4-13=-2111/916, 4-12=-186/557, 5-11=-408/260, 6-11=-487/1102, 6-9=-1048/524, 7-9=-970/1906, 2-13=-409/984

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; end vertical left and right exposed; porch left and right exposed; 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) 8=754, 14=437.
8) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent at 8-11-12 from the left end to connect truss(es) to back face of bottom chord.
9) Fill all nail holes where hanger is in contact with lumber.
10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
11) 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

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:

November 4,2025

Continued on page 2

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LOAD CASE(S) Standard

Uniform Loads (plf)

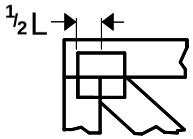
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 4-7=-60, 8-14=-20

Concentrated Loads (lb)

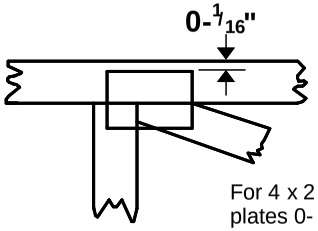
Vert: 4=-76(B) 12=-487(B) 15=-66(B) 16=-66(B) 17=-66(B) 18=-66(B) 19=-66(B) 20=-41(B) 21=-41(B) 22=-41(B) 23=-41(B) 24=-41(B)

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.

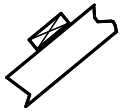
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

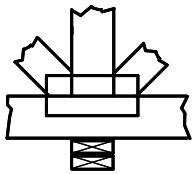
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

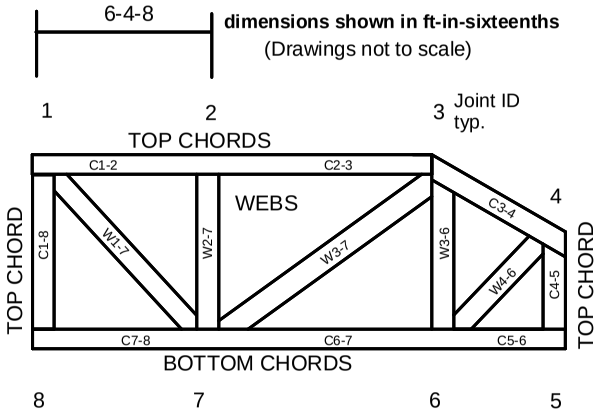


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

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®

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.