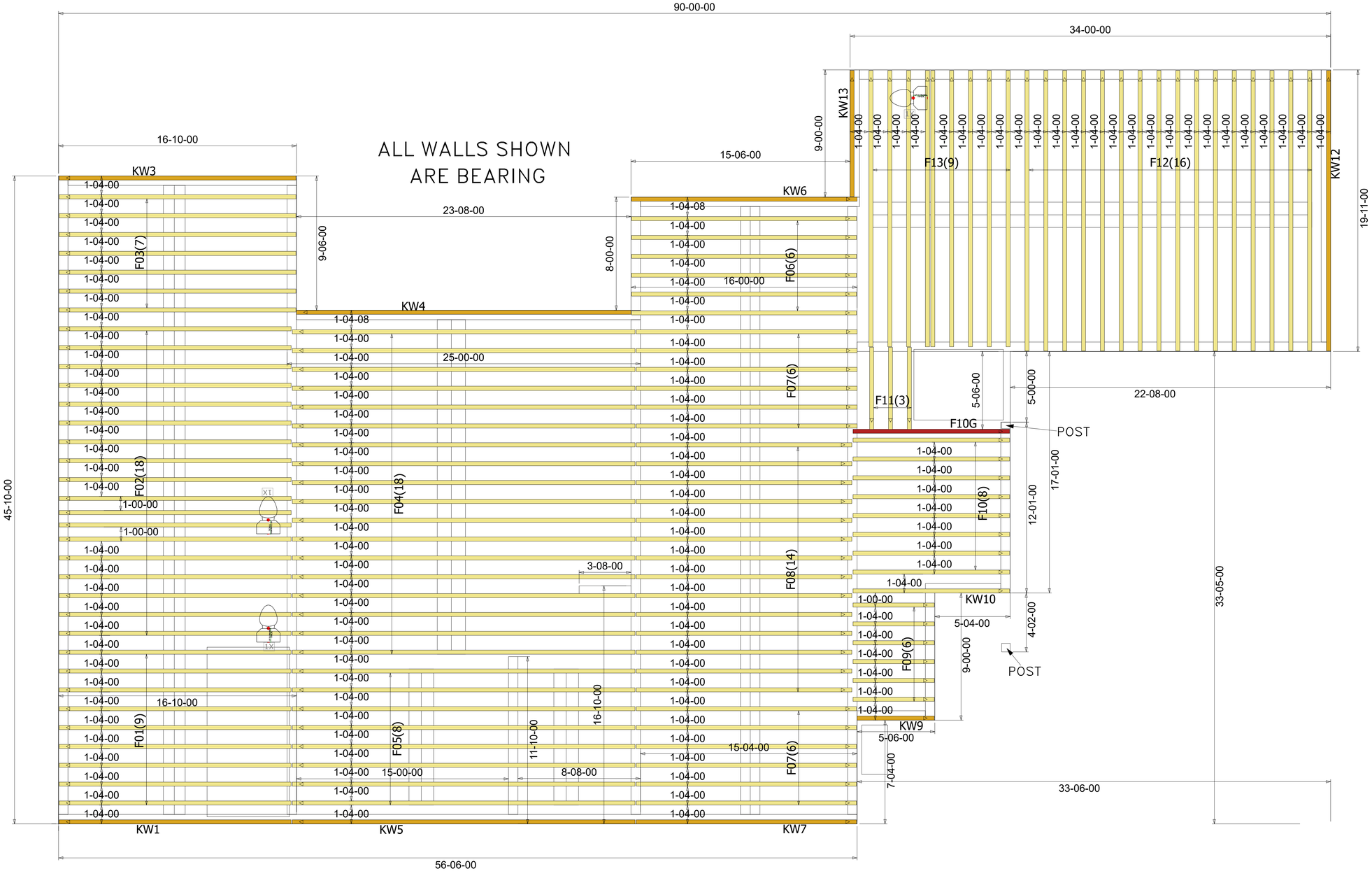


Summations of limited excerpts of the Code, ANSI/TPI 1-2014, and BCSI, and associated commentary, are provided within the truss submittal package in the Builders FirstSource Component Truss Responsibility and Liability Disclosure. These critical excerpts include, among other elements, critical safety information as well as specific Scope-of-Work assignments (and limitations of the same) for the Owner, Contractor, Building Designer, Truss Designer, and Truss Manufacturer. It is essential that ALL parties to the design and use of the Trusses review and become familiar with the information provided in the Builders FirstSource Component Truss Responsibility and Liability Disclosure, as well as the referenced sources, prior to performing work on the associated project.

WARNING
Backcharges Will Not Be Accepted Regardless of Fault Without Prior Notification By Customer Within 48 Hours And Investigation By Builders FirstSource. NO EXCEPTIONS.

IMPORTANT

This Drawing Must Be Approved And Returned Before Fabrication Will Begin. For Your Protection Check All Dimensions And Conditions Prior To Approval Of Plan. SIGNATURE BELOW INDICATES ALL NOTES AND DIMENSIONS HAVE BEEN ACCEPTED.

By _____ **Date**_____

FINAL LAYOUT FOR PRODUCTION

Initial:_____ Date:_____
Requested Delivery Date:

_____

ROOF LOADING:	FLOOR LOADING:
TCLL: 20	TCLL: 40-60-80
TCDL: 7	TCDL: 15
BCLL: 0	BCLL: 0
BCDL: 10	BCDL: 5
DURATION: 1.25	DURATION: 1.00

5 PSF TCDL + 5 PSF BCDL USED TO RESIST UPLIFT

ENCLOSED
EXPOSURE CATEGORY C
OCCUPANCY CATEGORY II
WIND LOAD 130mph
WIND IMPORTANCE FACTOR 1.00

ROOF PITCH: 10/12

CEILING PITCH: 6/12

TOP CHORD SIZE: 2 X 4min

BOTTOM CHORD SIZE: 2 X 4min

OVERHANG LENGTH: 18"

END CUT: PLUMB

CANTILEVER: N/A

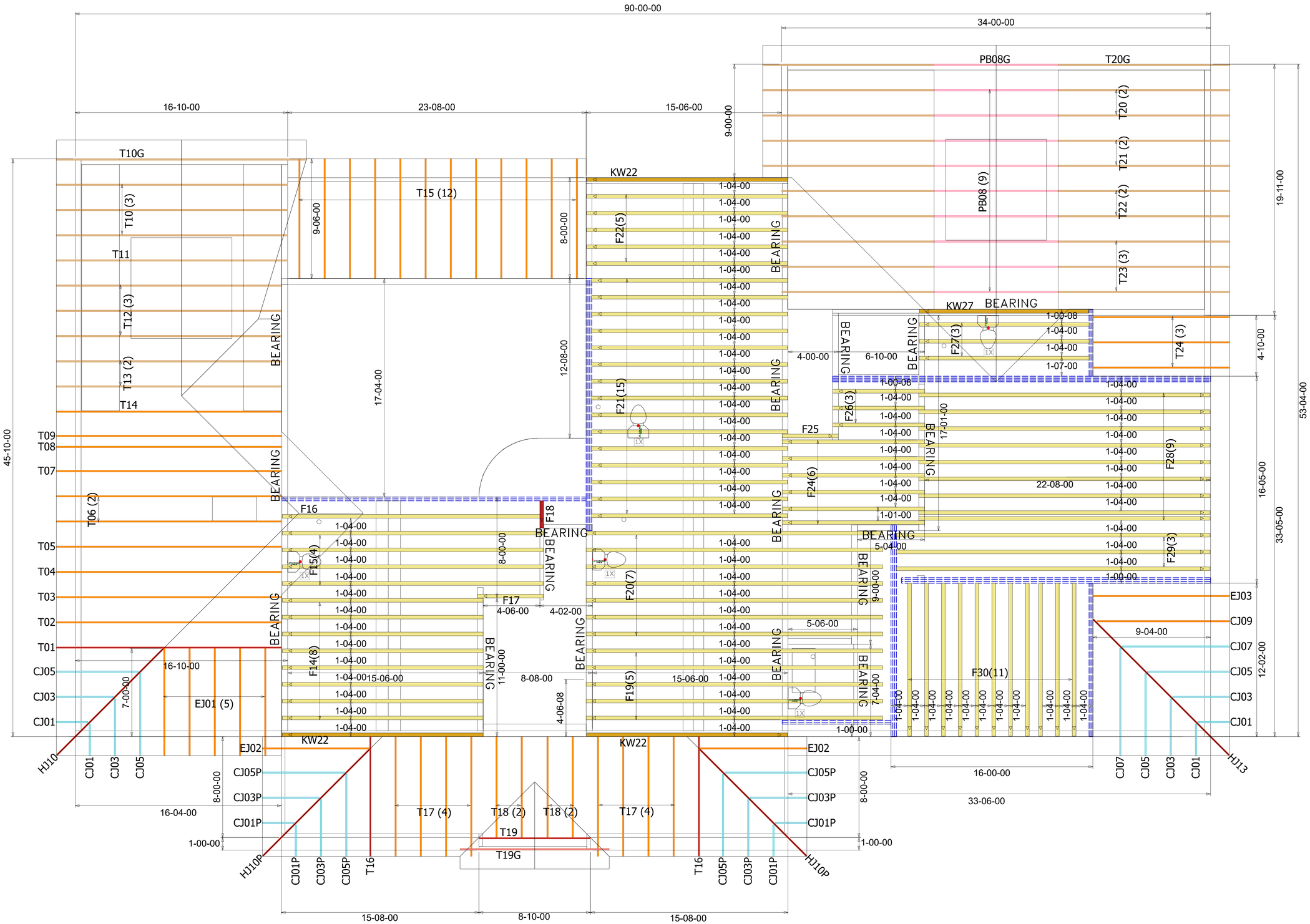
TRUSS SPACING: 24"

BUILDING CODE:FBC 2023

BEARING HEIGHT SCHEDULE

BUILDER:	NEYLON
MODEL:	Custom
ELEV:	Hip/Gable
ADDRESS:	TBD
LOT / BLOCK:	LOT/BLOCK
SUBDIVISION:	SUBDIVISION
CITY:	Columbia Cty
DRAWN BY:	KLH
JOB # :	
DATE: 11/12/2024	SCALE: N.T.S.

REVISIONS:



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By _____ **Date** _____

FINAL LAYOUT FOR PRODUCTION

Initial:_____ Date:_____
Requested Delivery Date:

_____

ROOF LOADING:	FLOOR LOADING:
TCLL: 20	TCLL: 40-60-80
TCDL: 7	TCDL: 15
BCLL: 0	BCLL: 0
BCDL: 10	BCDL: 5
DURATION: 1.25	DURATION: 1.00

5 PSF TCDL + 5 PSF BCDL USED TO RESIST UPLIFT

ENCLOSED
EXPOSURE CATEGORY C
OCCUPANCY CATEGORY II
WIND LOAD 130mph
WIND IMPORTANCE FACTOR 1.00

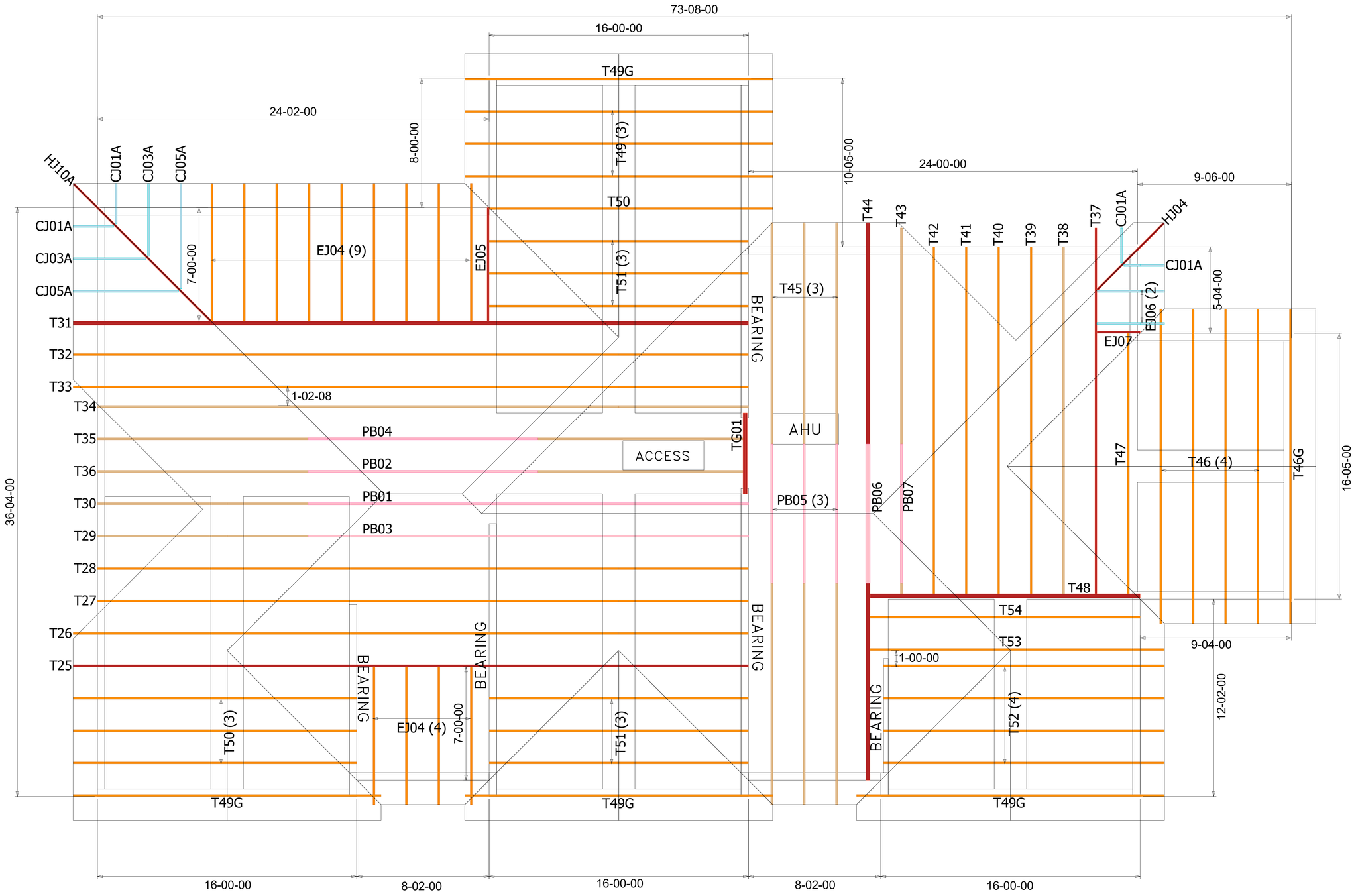
ROOF PITCH: 10/12
CEILING PITCH: 6/12
TOP CHORD SIZE: 2 X 4min
BOTTOM CHORD SIZE: 2 X 4min
OVERHANG LENGTH: 18"
END CUT: PLUMB
CANTILEVER: N/A
TRUSS SPACING: 24"
BUILDING CODE: FBC 2023

BEARING HEIGHT SCHEDULE

BUILDER:	NEYLON
MODEL:	Custom
ELEV:	Hip/Gable
ADDRESS:	TBD
LOT / BLOCK:	LOT/BLOCK
SUBDIVISION:	SUBDIVISION
CITY:	Columbia Cty
DRAWN BY:	KLH
JOB # :	
DATE:	11/12/2024
SCALE:	N.T.S.

REVISIONS:

Builders FirstSource®



WARNING
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IMPORTANT

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By _____ **Date** _____

FINAL LAYOUT FOR PRODUCTION

Initial:_____ Date:_____
Requested Delivery Date:

_____

ROOF LOADING:	FLOOR LOADING:
TCLL: 20	TCLL: 40-60-80
TCDL: 7	TCDL: 15
BCLL: 0	BCLL: 0
BCDL: 10	BCDL: 5
DURATION: 1.25	DURATION: 1.00

5 PSF TCDL + 5 PSF BCDL USED TO RESIST UPLIFT

ENCLOSED
EXPOSURE CATEGORY C
OCCUPANCY CATEGORY II
WIND LOAD 130mph
WIND IMPORTANCE FACTOR 1.00

ROOF PITCH: 10/12
CEILING PITCH: 6/12
TOP CHORD SIZE: 2 X 4min
BOTTOM CHORD SIZE: 2 X 4min
OVERHANG LENGTH: 18"
END CUT: PLUMB
CANTILEVER: N/A
TRUSS SPACING: 24"
BUILDING CODE:FBC 2023

BEARING HEIGHT SCHEDULE

BUILDER:	
NEYLON	
MODEL:	Custom
ELEV:	Hip/Gable
ADDRESS:	TBD
LOT / BLOCK:	LOT/BLOCK
SUBDIVISION:	SUBDIVISION
CITY:	Columbia Cty
DRAWN BY:	KLH
JOB # :	
DATE: 11/12/2024	SCALE: N.T.S.

REVISIONS:

Builders FirstSource®

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: 4371416 - NEYLON RES.

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

Site Information:

Customer Info: BUTCH NEYLON Project Name: Neylon Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 356 NE Nature DRive, N/A
City: Columbia Cty 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 8.7
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: 55.0 psf

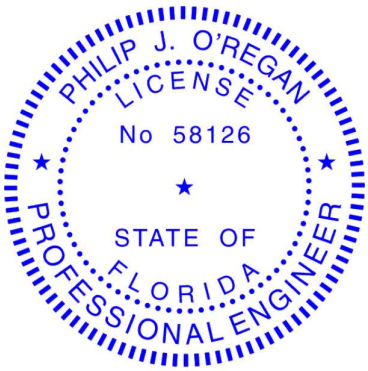
This package includes 134 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T35758703	CJ01	12/9/24	15	T35758717	EJ04	12/9/24
2	T35758704	CJ01A	12/9/24	16	T35758718	EJ05	12/9/24
3	T35758705	CJ01P	12/9/24	17	T35758719	EJ06	12/9/24
4	T35758706	CJ03	12/9/24	18	T35758720	EJ07	12/9/24
5	T35758707	CJ03A	12/9/24	19	T35758721	F01	12/9/24
6	T35758708	CJ03P	12/9/24	20	T35758722	F02	12/9/24
7	T35758709	CJ05	12/9/24	21	T35758723	F03	12/9/24
8	T35758710	CJ05A	12/9/24	22	T35758724	F04	12/9/24
9	T35758711	CJ05P	12/9/24	23	T35758725	F05	12/9/24
10	T35758712	CJ07	12/9/24	24	T35758726	F06	12/9/24
11	T35758713	CJ09	12/9/24	25	T35758727	F07	12/9/24
12	T35758714	EJ01	12/9/24	26	T35758728	F08	12/9/24
13	T35758715	EJ02	12/9/24	27	T35758729	F09	12/9/24
14	T35758716	EJ03	12/9/24	28	T35758730	F10	12/9/24

This item has been digitally signed and sealed by ORegan, Philip, PE on the date adjacent to th
Printed copies of this document are not considered signed and sealed and the signature must b

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

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



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

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.

December 9,2024

RE: 4371416 - NEYLON RES.

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

Site Information:

Customer Info: BUTCH NEYLON Project Name: Neylon Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 356 NE Nature DRive, N/A
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
29	T35758731	F10G	12/9/24	86	T35758788	T11	12/9/24
30	T35758732	F11	12/9/24	87	T35758789	T12	12/9/24
31	T35758733	F12	12/9/24	88	T35758790	T13	12/9/24
32	T35758734	F13	12/9/24	89	T35758791	T14	12/9/24
33	T35758735	F14	12/9/24	90	T35758792	T15	12/9/24
34	T35758736	F15	12/9/24	91	T35758793	T16	12/9/24
35	T35758737	F16	12/9/24	92	T35758794	T17	12/9/24
36	T35758738	F17	12/9/24	93	T35758795	T18	12/9/24
37	T35758739	F18	12/9/24	94	T35758796	T19	12/9/24
38	T35758740	F19	12/9/24	95	T35758797	T19G	12/9/24
39	T35758741	F20	12/9/24	96	T35758798	T20	12/9/24
40	T35758742	F21	12/9/24	97	T35758799	T20G	12/9/24
41	T35758743	F22	12/9/24	98	T35758800	T21	12/9/24
42	T35758744	F24	12/9/24	99	T35758801	T22	12/9/24
43	T35758745	F25	12/9/24	100	T35758802	T23	12/9/24
44	T35758746	F26	12/9/24	101	T35758803	T24	12/9/24
45	T35758747	F27	12/9/24	102	T35758804	T25	12/9/24
46	T35758748	F28	12/9/24	103	T35758805	T26	12/9/24
47	T35758749	F29	12/9/24	104	T35758806	T27	12/9/24
48	T35758750	F30	12/9/24	105	T35758807	T28	12/9/24
49	T35758751	HJ04	12/9/24	106	T35758808	T29	12/9/24
50	T35758752	HJ10	12/9/24	107	T35758809	T30	12/9/24
51	T35758753	HJ10A	12/9/24	108	T35758810	T31	12/9/24
52	T35758754	HJ10P	12/9/24	109	T35758811	T32	12/9/24
53	T35758755	HJ13	12/9/24	110	T35758812	T33	12/9/24
54	T35758756	KW1	12/9/24	111	T35758813	T34	12/9/24
55	T35758757	KW3	12/9/24	112	T35758814	T35	12/9/24
56	T35758758	KW4	12/9/24	113	T35758815	T36	12/9/24
57	T35758759	KW5	12/9/24	114	T35758816	T37	12/9/24
58	T35758760	KW6	12/9/24	115	T35758817	T38	12/9/24
59	T35758761	KW7	12/9/24	116	T35758818	T39	12/9/24
60	T35758762	KW9	12/9/24	117	T35758819	T40	12/9/24
61	T35758763	KW10	12/9/24	118	T35758820	T41	12/9/24
62	T35758764	KW12	12/9/24	119	T35758821	T42	12/9/24
63	T35758765	KW13	12/9/24	120	T35758822	T43	12/9/24
64	T35758766	KW22	12/9/24	121	T35758823	T44	12/9/24
65	T35758767	KW27	12/9/24	122	T35758824	T45	12/9/24
66	T35758768	PB01	12/9/24	123	T35758825	T46	12/9/24
67	T35758769	PB02	12/9/24	124	T35758826	T46G	12/9/24
68	T35758770	PB03	12/9/24	125	T35758827	T47	12/9/24
69	T35758771	PB04	12/9/24	126	T35758828	T48	12/9/24
70	T35758772	PB05	12/9/24	127	T35758829	T49	12/9/24
71	T35758773	PB06	12/9/24	128	T35758830	T49G	12/9/24
72	T35758774	PB07	12/9/24	129	T35758831	T50	12/9/24
73	T35758775	PB08	12/9/24	130	T35758832	T51	12/9/24
74	T35758776	PB08G	12/9/24	131	T35758833	T52	12/9/24
75	T35758777	T01	12/9/24	132	T35758834	T53	12/9/24
76	T35758778	T02	12/9/24	133	T35758835	T54	12/9/24
77	T35758779	T03	12/9/24	134	T35758836	TG01	12/9/24
78	T35758780	T04	12/9/24				
79	T35758781	T05	12/9/24				
80	T35758782	T06	12/9/24				
81	T35758783	T07	12/9/24				
82	T35758784	T08	12/9/24				
83	T35758785	T09	12/9/24				
84	T35758786	T10	12/9/24				
85	T35758787	T10G	12/9/24				

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758703
4371416	CJ01	Jack-Open	4	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:17 2024 Page 1
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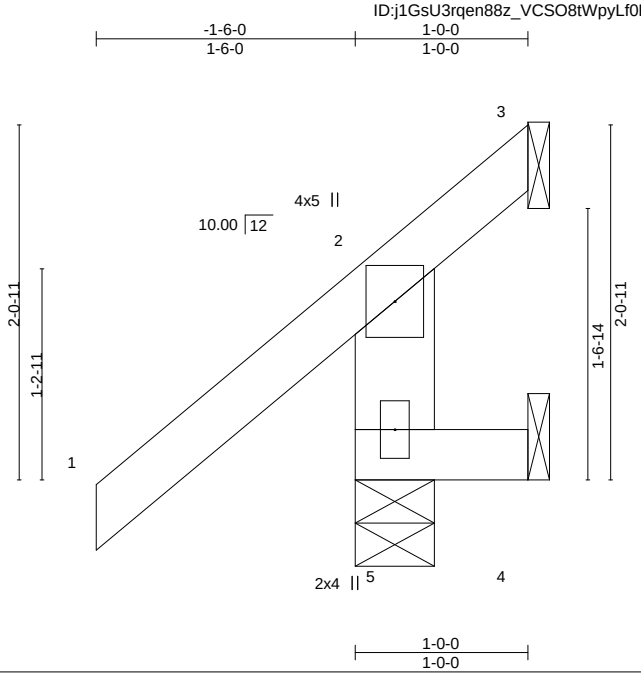

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MR							Weight: 9 lb	FT = 20%

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

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

REACTIONS. (size) 5=0-5-8, 3=Mechanical, 4=Mechanical
Max Horz 5=86(LC 9)
Max Uplift 5=-79(LC 12), 3=-44(LC 1), 4=-34(LC 20)
Max Grav 5=228(LC 1), 3=20(LC 8), 4=23(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-179/373

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; end vertical left 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 79 lb uplift at joint 5, 44 lb uplift at joint 3 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:

December 9,2024

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758704
4371416	CJ01A	Jack-Open	4	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:17 2024 Page 1
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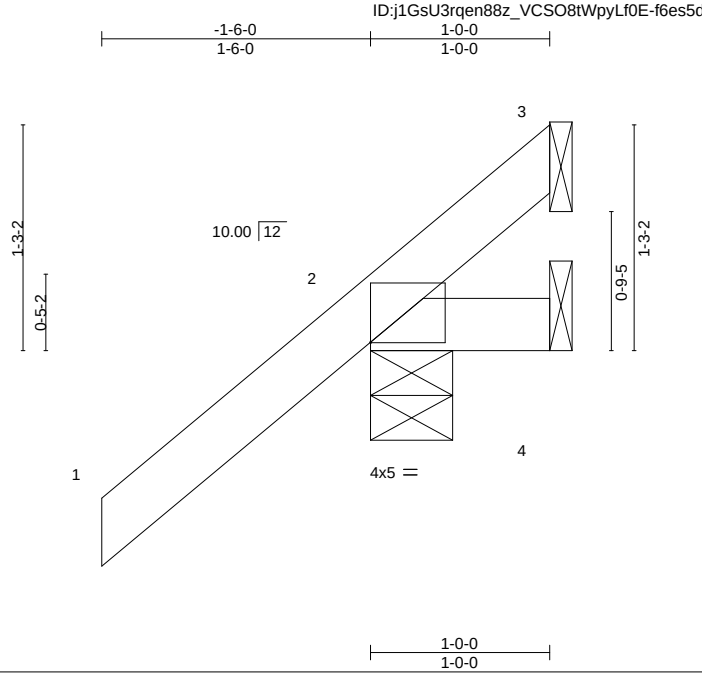

Plate Offsets (X,Y)-- [2:0-0-0,0-0-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.13	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: 7 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=0-5-8, 4=Mechanical
Max Horz 2=106(LC 12)
Max Uplift 3=-4(LC 13), 2=-133(LC 12), 4=-22(LC 19)
Max Grav 3=13(LC 8), 2=179(LC 1), 4=41(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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) 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, 133 lb uplift at joint 2 and 22 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:

December 9,2024

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758705
4371416	CJ01P	JACK-OPEN	4	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:18 2024 Page 1
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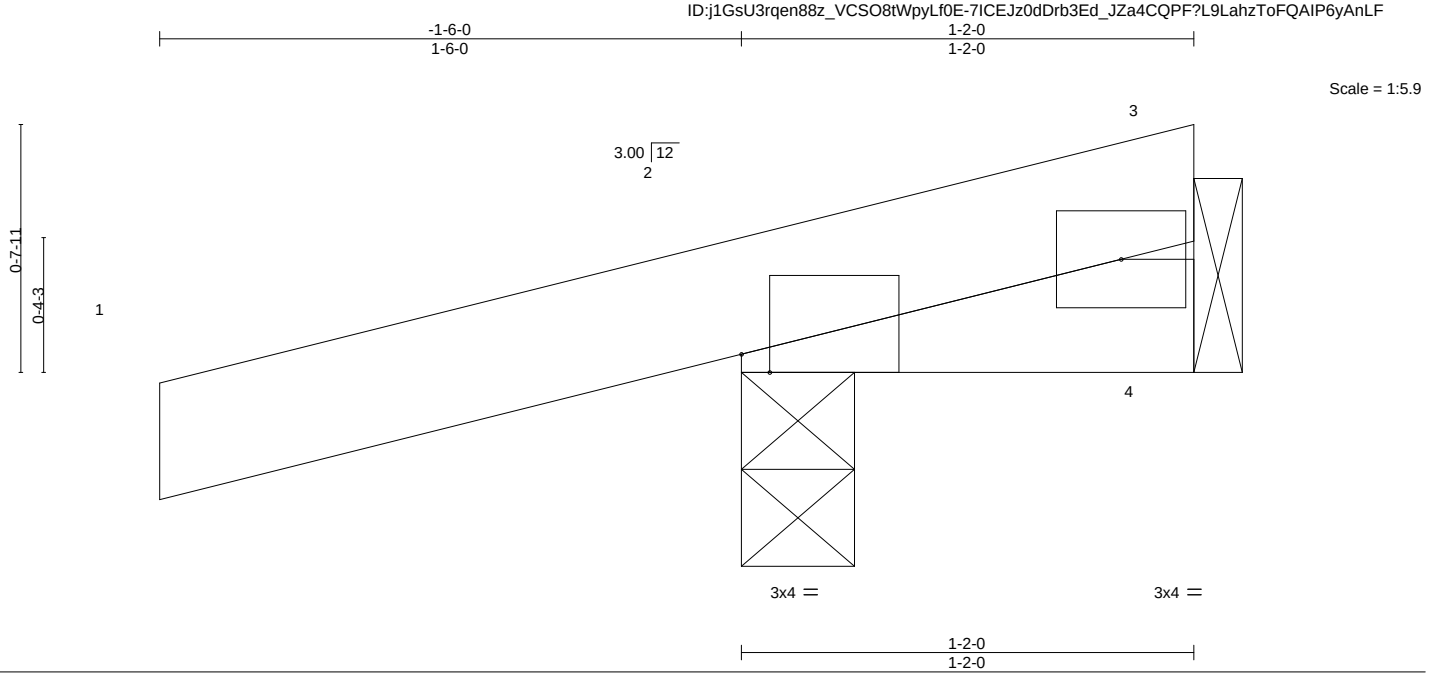

Plate Offsets (X,Y)-- [2:0-0-14,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 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 1-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 4=Mechanical
Max Horz 2=44(LC 8)
Max Uplift 2=-203(LC 8), 4=-16(LC 1)
Max Grav 2=176(LC 1), 4=28(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=35ft; Cat. II; Exp C; 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 203 lb uplift at joint 2 and 16 lb uplift at joint 4.

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

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758706
4371416	CJ03	Jack-Open	4	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:18 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-7ICEJz0dDrb3Ed_JZa4CQPFwZ9G9hzToFQAIP6yAnLF

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1-6-0 3-0-0

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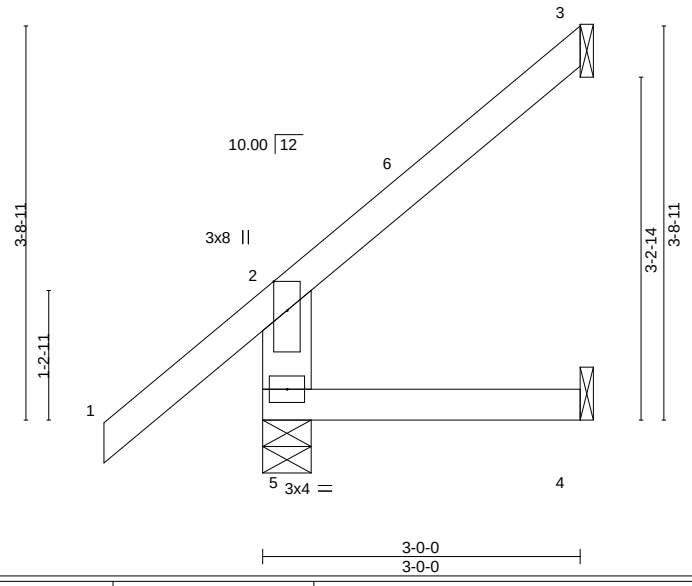

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.01	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MR							Weight: 16 lb	FT = 20%

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

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

REACTIONS. (size) 5=0-5-8, 3=Mechanical, 4=Mechanical
Max Horz 5=174(LC 12)
Max Uplift 5=-38(LC 12), 3=-114(LC 12), 4=-28(LC 12)
Max Grav 5=223(LC 1), 3=80(LC 19), 4=47(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-188/308

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 2-11-4 zone; end vertical left 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 38 lb uplift at joint 5, 114 lb uplift at joint 3 and 28 lb uplift at joint 4.

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December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758707
4371416	CJ03A	Jack-Open	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:18 2024 Page 1
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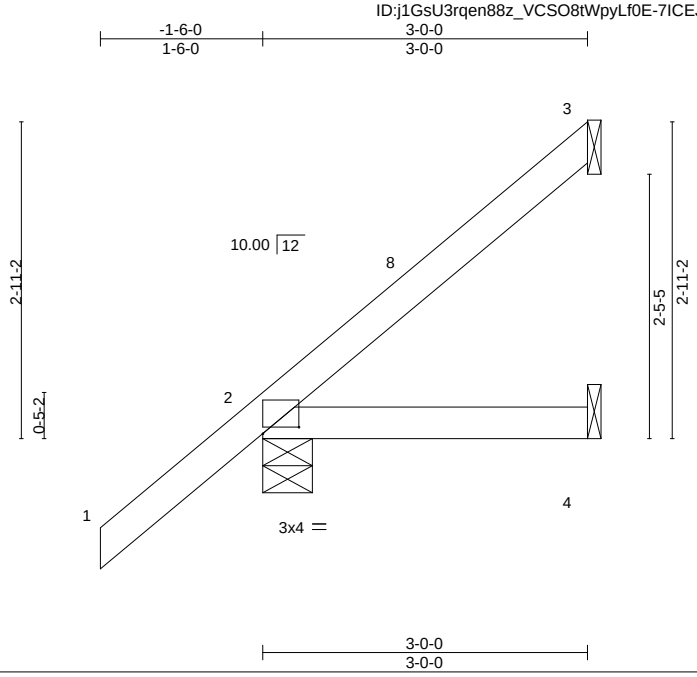

Plate Offsets (X,Y)-- [2:0-4-0,0-0-12]

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	0.43	Vert(LL)	-0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	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: 14 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=0-5-8, 4=Mechanical
Max Horz 2=196(LC 12)
Max Uplift 3=-94(LC 12), 2=-85(LC 12), 4=-2(LC 12)
Max Grav 3=79(LC 19), 2=210(LC 1), 4=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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 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 94 lb uplift at joint 3, 85 lb uplift at joint 2 and 2 lb uplift at joint 4.

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December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758708
4371416	CJ03P	Jack-Open	4	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:19 2024 Page 1
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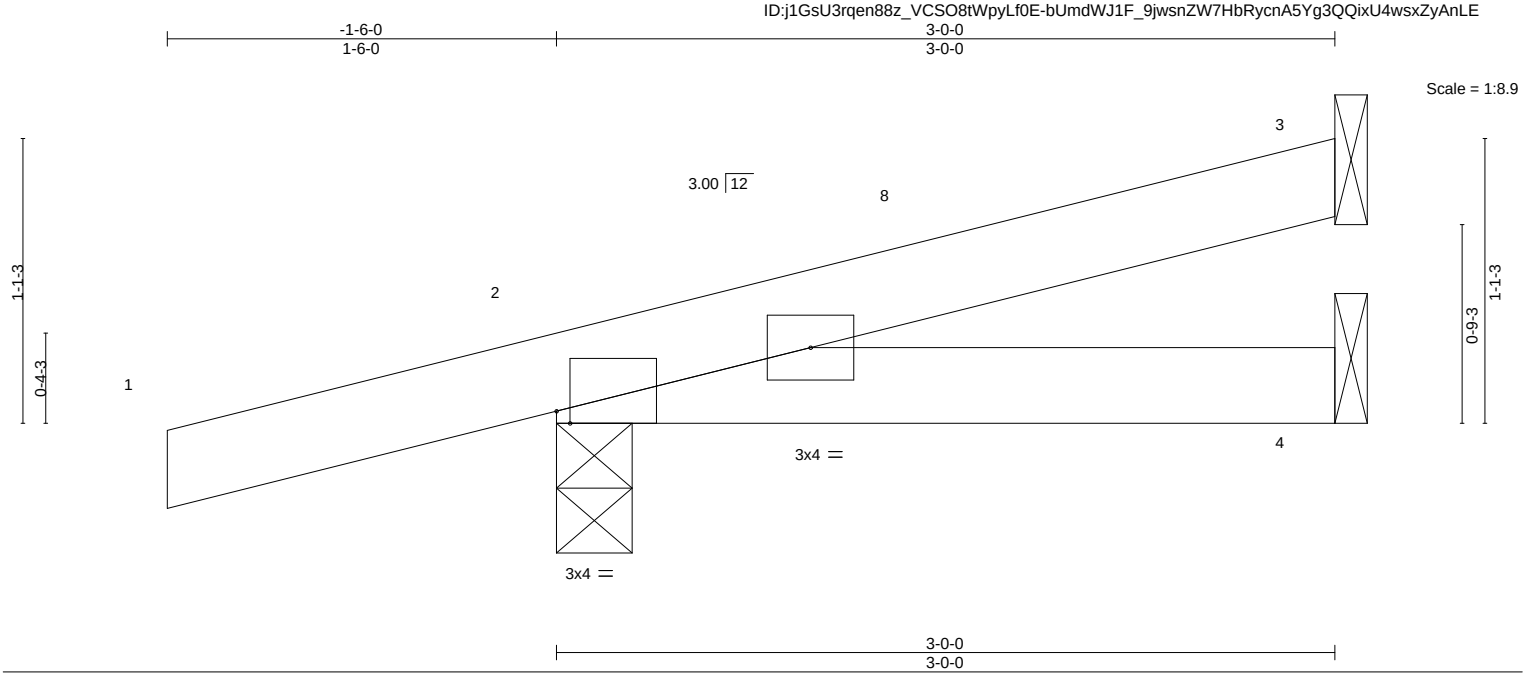

Plate Offsets (X,Y)-- [2:0-0-10,Edge]

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	0.28	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 11 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=69(LC 8)
Max Uplift 3=-51(LC 8), 2=-219(LC 8), 4=-30(LC 9)
Max Grav 3=57(LC 1), 2=210(LC 1), 4=47(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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 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 51 lb uplift at joint 3, 219 lb uplift at joint 2 and 30 lb uplift at joint 4.

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758709
4371416	CJ05	Jack-Open	4	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:19 2024 Page 1
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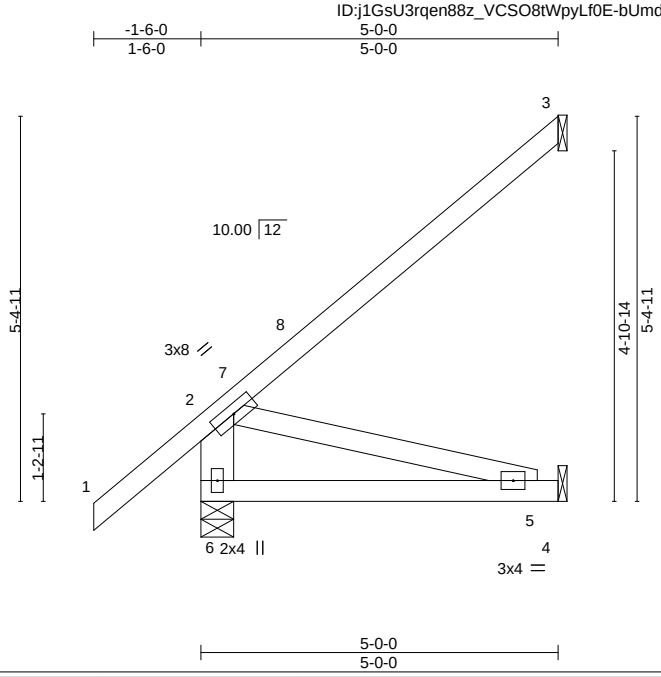

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.75	Vert(LL)	-0.03	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.06	5-6	>958	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 29 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-7 oc bracing.

REACTIONS. (size) 6=0-5-8, 3=Mechanical, 4=Mechanical
Max Horz 6=267(LC 12)
Max Uplift 6=-34(LC 12), 3=-180(LC 12), 4=-49(LC 12)
Max Grav 6=285(LC 1), 3=145(LC 19), 4=94(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-238/259
BOT CHORD 5-6=-519/177
WEBS 2-5=-182/534

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-11-4 zone; end vertical left 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 34 lb uplift at joint 6, 180 lb uplift at joint 3 and 49 lb uplift at joint 4.

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Date:

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758710
4371416	CJ05A	Jack-Open	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:20 2024 Page 1
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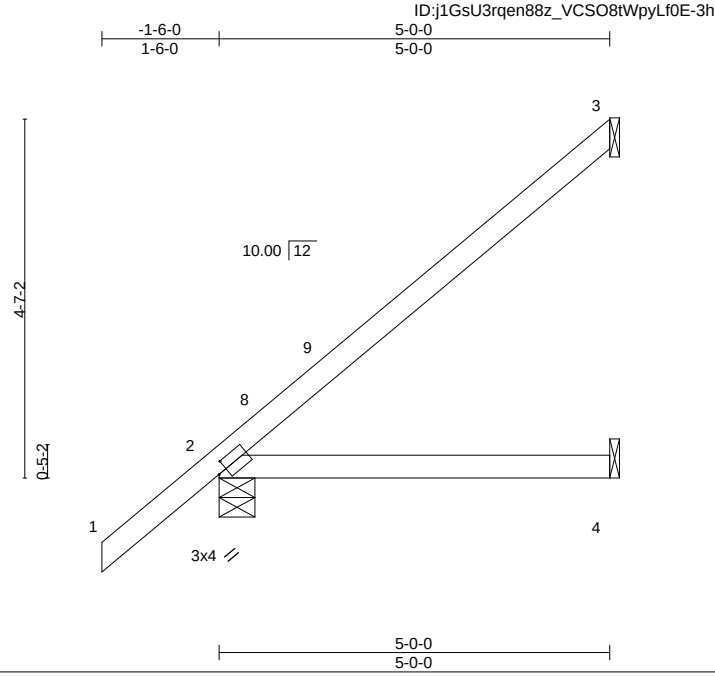

Plate Offsets (X,Y)-- [2:0-1-6,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	0.06	4-7	>938	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.07	4-7	>854	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 20 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=0-5-8, 4=Mechanical
Max Horz 2=289(LC 12)
Max Uplift 3=-171(LC 12), 2=-77(LC 12), 4=-15(LC 12)
Max Grav 3=145(LC 19), 2=276(LC 1), 4=90(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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 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 171 lb uplift at joint 3, 77 lb uplift at joint 2 and 15 lb uplift at joint 4.

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758711
4371416	CJ05P	Jack-Open	4	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:20 2024 Page 1
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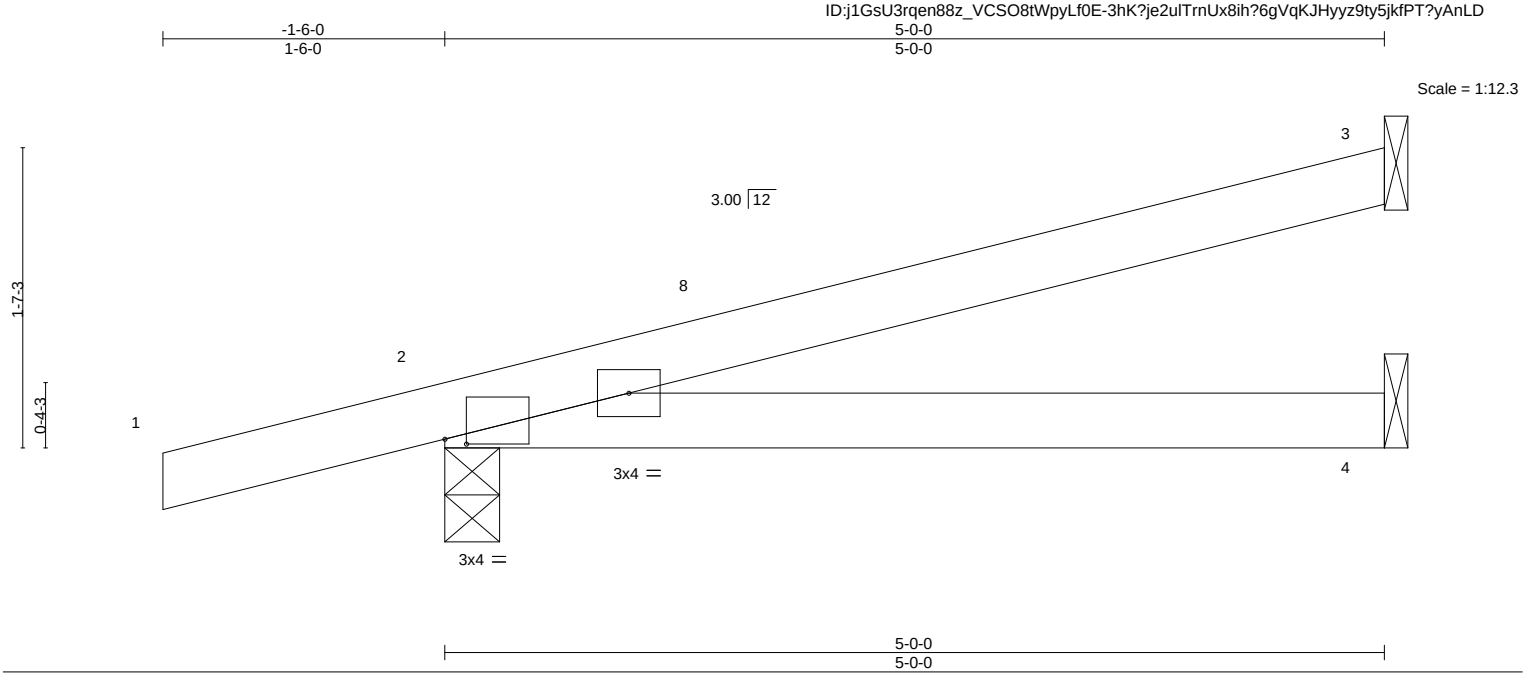

Plate Offsets (X,Y)-- [2:0-1-6,0-0-5]

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	0.44	Vert(LL)	0.08	4-7	>705	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	0.07	4-7	>809	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: 18 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=97(LC 8)
Max Uplift 3=-103(LC 8), 2=-273(LC 8), 4=-58(LC 8)
Max Grav 3=110(LC 1), 2=276(LC 1), 4=85(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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 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 103 lb uplift at joint 3, 273 lb uplift at joint 2 and 58 lb uplift at joint 4.

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

December 9,2024

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758712
4371416	CJ07	Jack-Open	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:20 2024 Page 1
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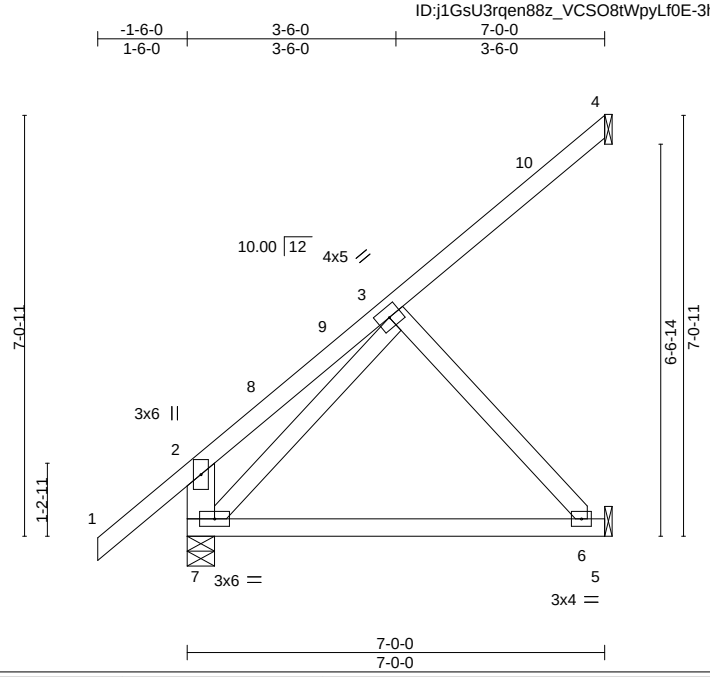

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	-0.08	6-7	>955	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.17	6-7	>471	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 43 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-7: 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) 4=Mechanical, 5=Mechanical, 7=0-5-8
Max Horz 7=347(LC 12)
Max Uplift 4=-101(LC 12), 5=-184(LC 12), 7=-45(LC 12)
Max Grav 4=102(LC 19), 5=203(LC 19), 7=354(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-235/387
BOT CHORD 6-7=-284/177
WEBS 3-6=-263/422, 3-7=-260/205

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-11-4 zone; end vertical left 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 101 lb uplift at joint 4, 184 lb uplift at joint 5 and 45 lb uplift at joint 7.

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December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758713
4371416	CJ09	Jack-Partial	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:21 2024 Page 1
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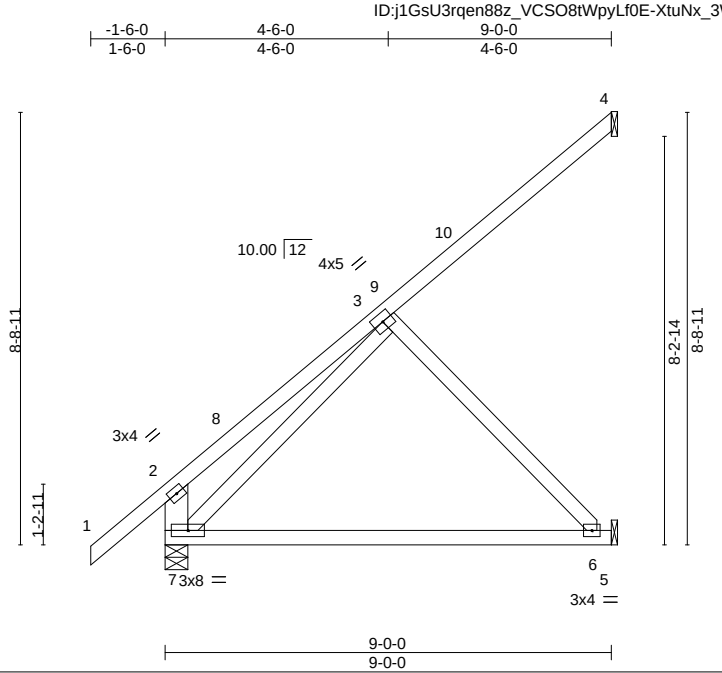

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	-0.24	6-7	>440	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.48	6-7	>217	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 54 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-7: 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) 4=Mechanical, 5=Mechanical, 7=0-5-8
Max Horz 7=412(LC 12)
Max Uplift 4=-106(LC 12), 5=-213(LC 12), 7=-60(LC 12)
Max Grav 4=129(LC 19), 5=268(LC 19), 7=425(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-319/394, 2-3=-303/176
BOT CHORD 6-7=-313/212
WEBS 3-7=-304/284, 3-6=-306/451

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 8-11-4 zone; end vertical left 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 106 lb uplift at joint 4, 213 lb uplift at joint 5 and 60 lb uplift at joint 7.

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December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758714
4371416	EJ01	Jack-Partial	5	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:21 2024 Page 1
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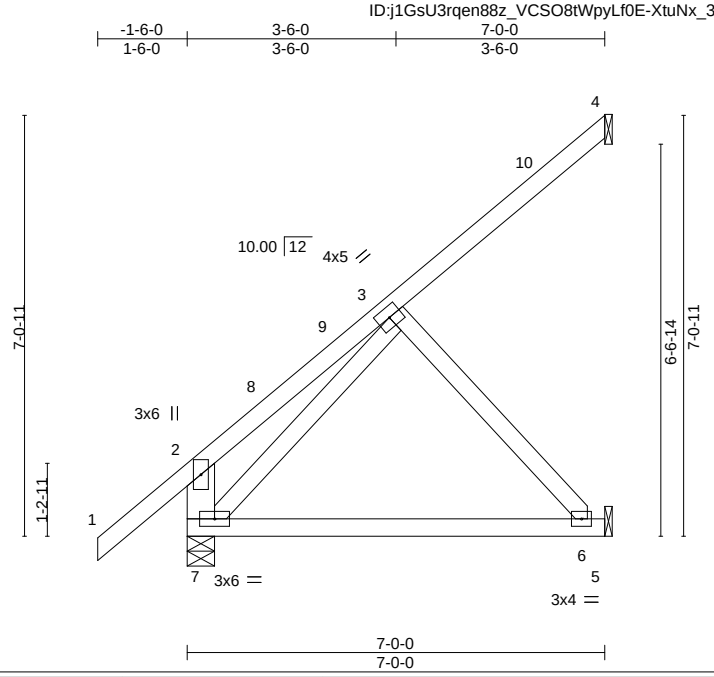

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	-0.08	6-7	>956	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.17	6-7	>471	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 43 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-7: 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) 4=Mechanical, 5=Mechanical, 7=0-5-8
Max Horz 7=347(LC 12)
Max Uplift 4=-101(LC 12), 5=-184(LC 12), 7=-45(LC 12)
Max Grav 4=102(LC 19), 5=203(LC 19), 7=354(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-235/387
BOT CHORD 6-7=-284/177
WEBS 3-6=-263/422, 3-7=-260/205

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-11-4 zone; end vertical left 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 101 lb uplift at joint 4, 184 lb uplift at joint 5 and 45 lb uplift at joint 7.

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758715
4371416	EJ02	Jack-Partial	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:22 2024 Page 1
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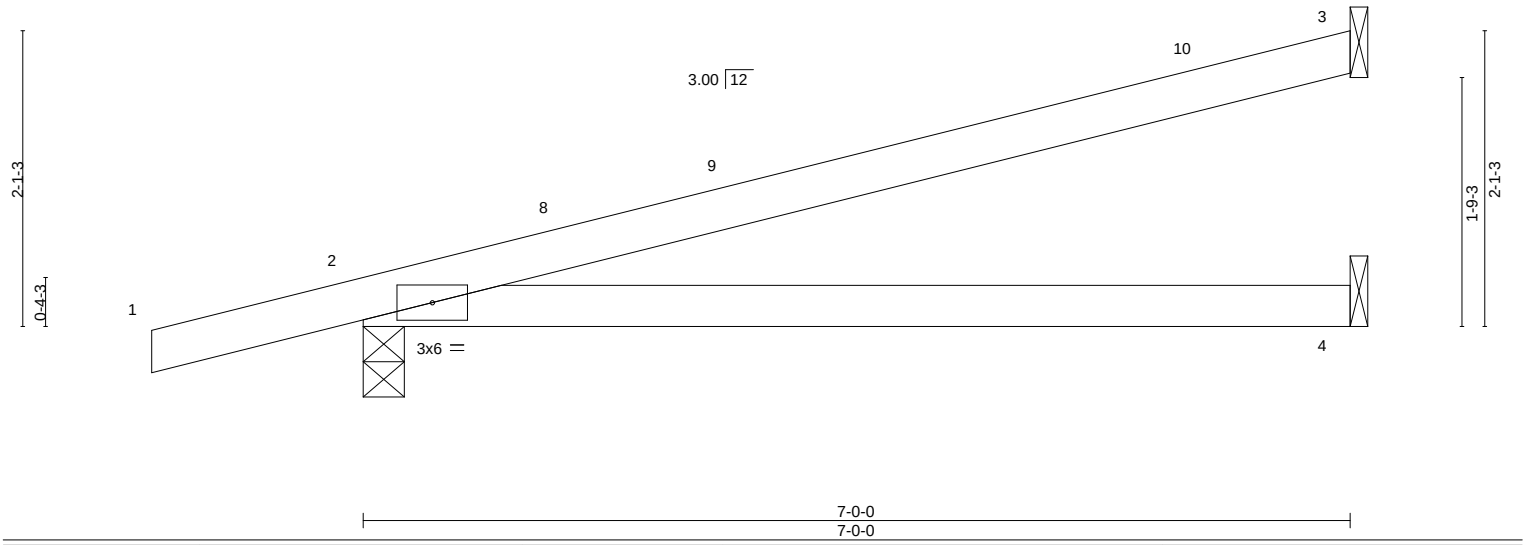

7-0-0
7-0-0

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	0.93	Vert(LL)	0.31	4-7	>270	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	0.26	4-7	>316	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 24 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 2-2-0 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=125(LC 8)
Max Uplift 3=-152(LC 8), 2=-333(LC 8), 4=-85(LC 8)
Max Grav 3=162(LC 1), 2=346(LC 1), 4=122(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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-11-4 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 152 lb uplift at joint 3, 333 lb uplift at joint 2 and 85 lb uplift at joint 4.

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December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758716
4371416	EJ03	Monopitch	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:22 2024 Page 1
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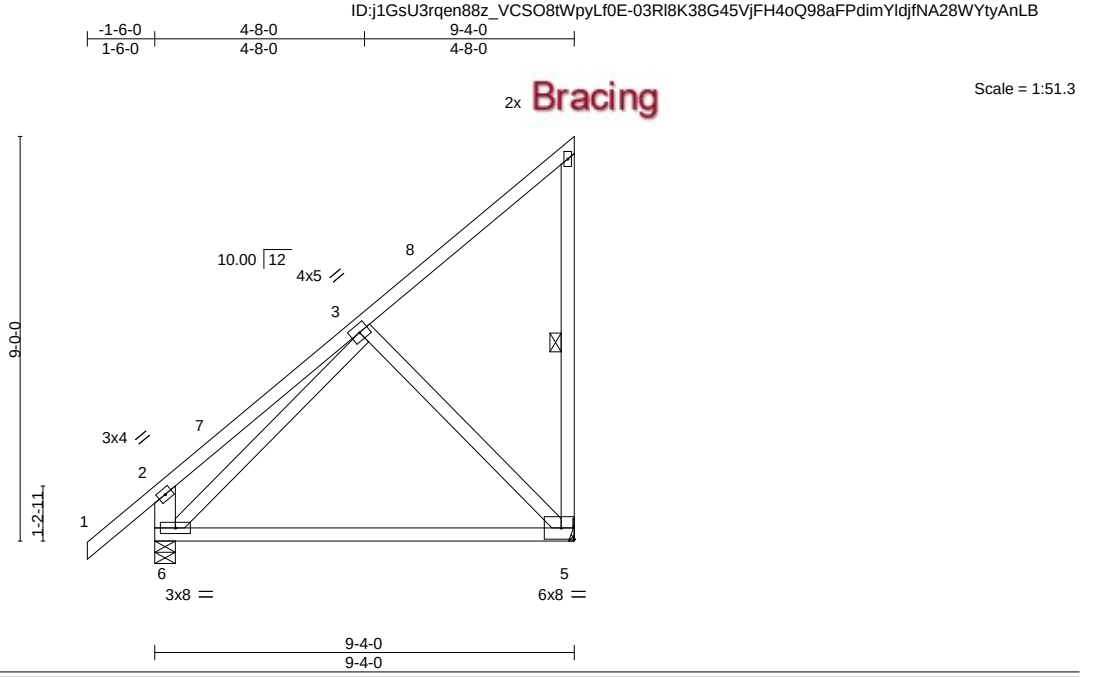

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.22	5-6	>480	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.45	5-6	>241	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.31	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 68 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-5-1 oc bracing.
WEBS 1 Row at midpt 4-5

REACTIONS. (size) 5=Mechanical, 6=0-5-8
Max Horz 6=465(LC 12)
Max Uplift 5=-404(LC 12), 6=-35(LC 12)
Max Grav 5=408(LC 19), 6=434(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-326/190, 4-5=-159/293, 2-6=-328/457
BOT CHORD 5-6=-373/277
WEBS 3-5=-377/519, 3-6=-353/307

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-2-4 zone; end vertical left 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 404 lb uplift at joint 5 and 35 lb uplift at joint 6.

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758717
4371416	EJ04	Jack-Partial	13	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:22 2024 Page 1
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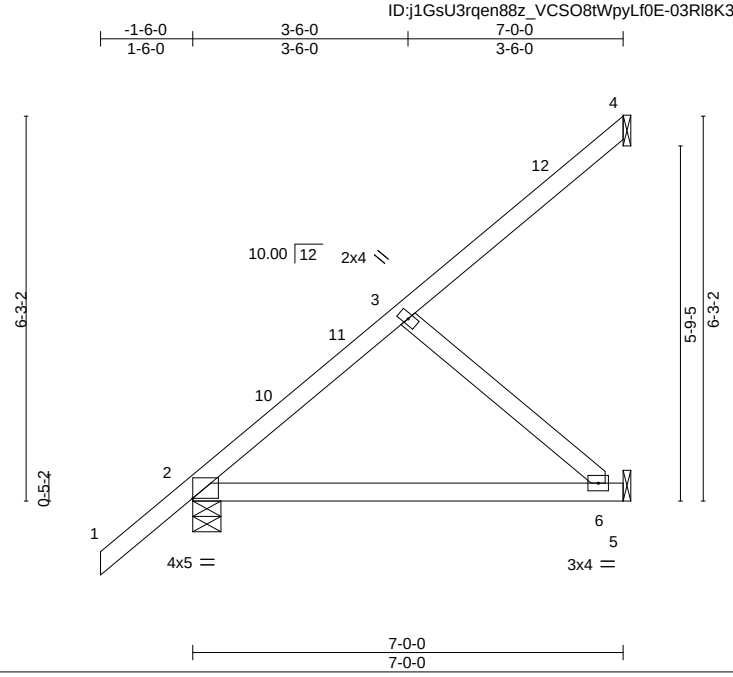

Plate Offsets (X,Y)-- [2:0-0-0,0-0-0]

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	0.39	Vert(LL)	-0.08	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.16	6-9	>506	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 33 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=0-5-8, 5=Mechanical
Max Horz 2=369(LC 12)
Max Uplift 4=-100(LC 12), 2=-84(LC 12), 5=-146(LC 12)
Max Grav 4=94(LC 19), 2=346(LC 1), 5=208(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 2-6=-283/207
WEBS 3-6=-276/377

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 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 100 lb uplift at joint 4, 84 lb uplift at joint 2 and 146 lb uplift at joint 5.

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758718
4371416	EJ05	Jack-Closed Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:23 2024 Page 1
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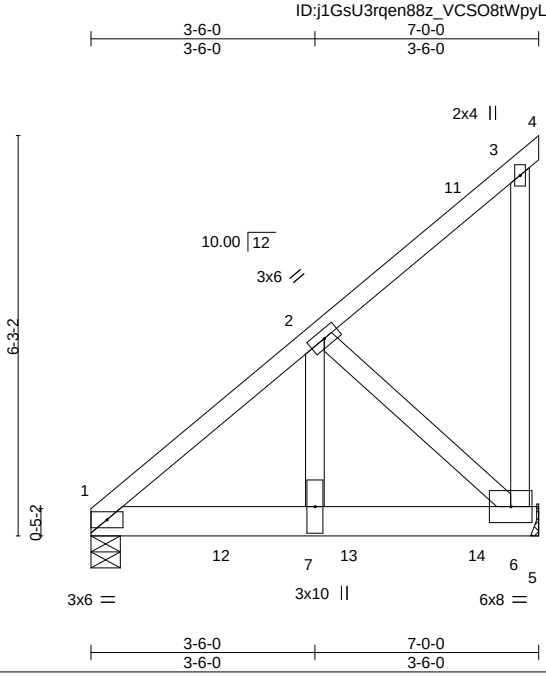

Plate Offsets (X,Y)-- [1:0-0-1,0-0-0]

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)	-0.02	7-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.03	7-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.45	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 48 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-5-8, 6=Mechanical
Max Horz 1=309(LC 8)
Max Uplift 1=-308(LC 8), 6=-720(LC 8)
Max Grav 1=925(LC 1), 6=1298(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1069/331
BOT CHORD 1-7=-465/803, 6-7=-465/803
WEBS 2-7=-489/1177, 2-6=-1076/621

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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 308 lb uplift at joint 1 and 720 lb uplift at joint 6.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 572 lb down and 267 lb up at 2-0-12, and 572 lb down and 267 lb up at 4-0-12, and 573 lb down and 266 lb up at 6-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-14, 5-8=-20
Concentrated Loads (lb)
Vert: 12=-572(B) 13=-572(B) 14=-573(B)

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758719
4371416	EJ06	Jack-Open	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:23 2024 Page 1
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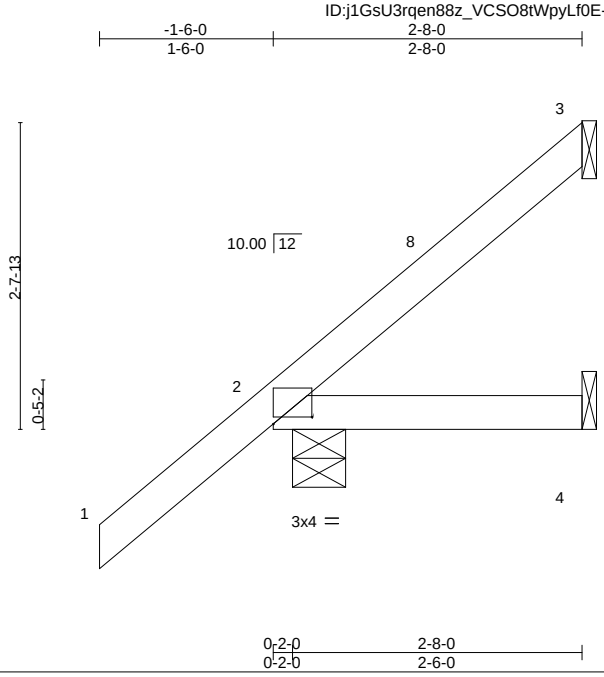

Plate Offsets (X,Y)-- [2:0-4-0,0-0-11]

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)	-0.00	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	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 2-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical
Max Horz 2=181(LC 12)
Max Uplift 3=-80(LC 12), 2=-88(LC 12)
Max Grav 3=67(LC 19), 2=201(LC 1), 4=45(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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 2-7-4 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 80 lb uplift at joint 3 and 88 lb uplift at joint 2.

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758720
4371416	EJ07	Jack-Closed Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:24 2024 Page 1
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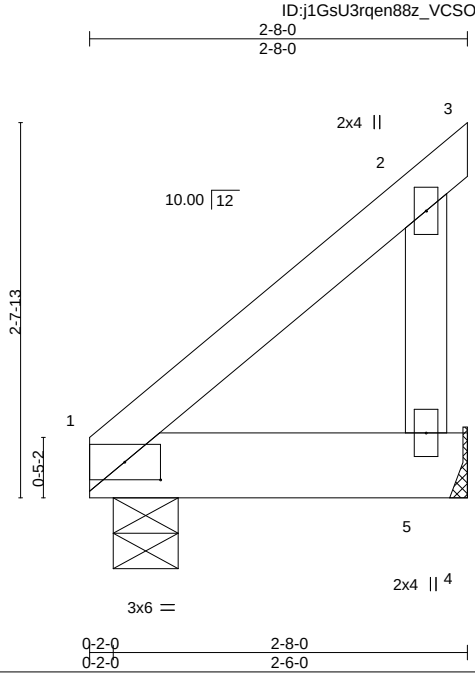

Plate Offsets (X,Y)-- [1:0-3-1,0-1-8]

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	0.10	Vert(LL)	-0.00	8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.01	5-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	1	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 14 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 2-8-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-5-8, 5=Mechanical
Max Horz 1=122(LC 8)
Max Uplift 1=-194(LC 8), 5=-169(LC 8)
Max Grav 1=545(LC 1), 5=220(LC 31)

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=35ft; Cat. II; Exp C; 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 194 lb uplift at joint 1 and 169 lb uplift at joint 5.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 578 lb down and 268 lb up at 0-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-14, 4-6=-20
Concentrated Loads (lb)
Vert: 8=-578(B)

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December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758721
4371416	F01	FLOOR	9	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:25 2024 Page 1
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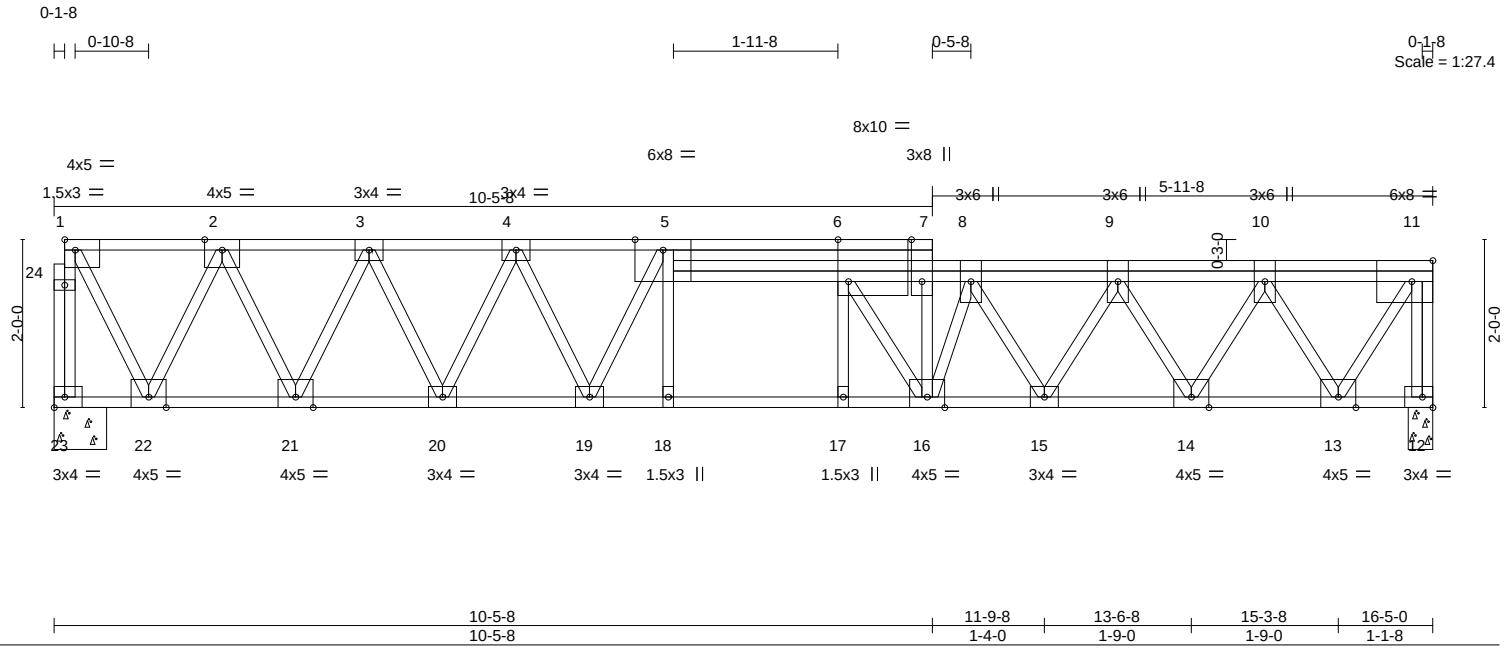

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [7:0-6-0,Edge], [11:0-3-0,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.17	Vert(LL)	-0.06	18	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.54	Vert(CT)	-0.09	17-18	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.03	12	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 129 lb	FT = 20%F, 11%E

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

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) 23=0-7-8, 12=0-3-8
Max Grav 23=695(LC 1), 12=878(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-23=-691/0, 11-12=-875/0, 1-2=-342/0, 2-3=-860/0, 3-4=-1240/0, 4-5=-1576/0, 5-6=-1764/0, 6-7=-1780/0, 7-8=-1807/0, 8-9=-1680/0, 9-10=-1232/0, 10-11=-503/0
BOT CHORD 21-22=0/636, 20-21=0/1078, 19-20=0/1398, 18-19=0/1764, 17-18=0/1764, 16-17=0/1763, 15-16=0/1833, 14-15=0/1523, 13-14=0/934
WEBS 11-13=0/909, 1-22=0/713, 10-13=-884/0, 2-22=-694/0, 10-14=0/609, 2-21=0/530, 9-14=-595/0, 3-21=-516/0, 9-15=0/323, 3-20=0/384, 8-15=-312/0, 4-20=-371/0, 8-16=-258/41, 4-19=0/389, 6-16=-314/300, 5-19=-410/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-23=-7, 1-7=-73, 7-11=-123

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758722
4371416	F02	FLOOR	18	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:25 2024 Page 1
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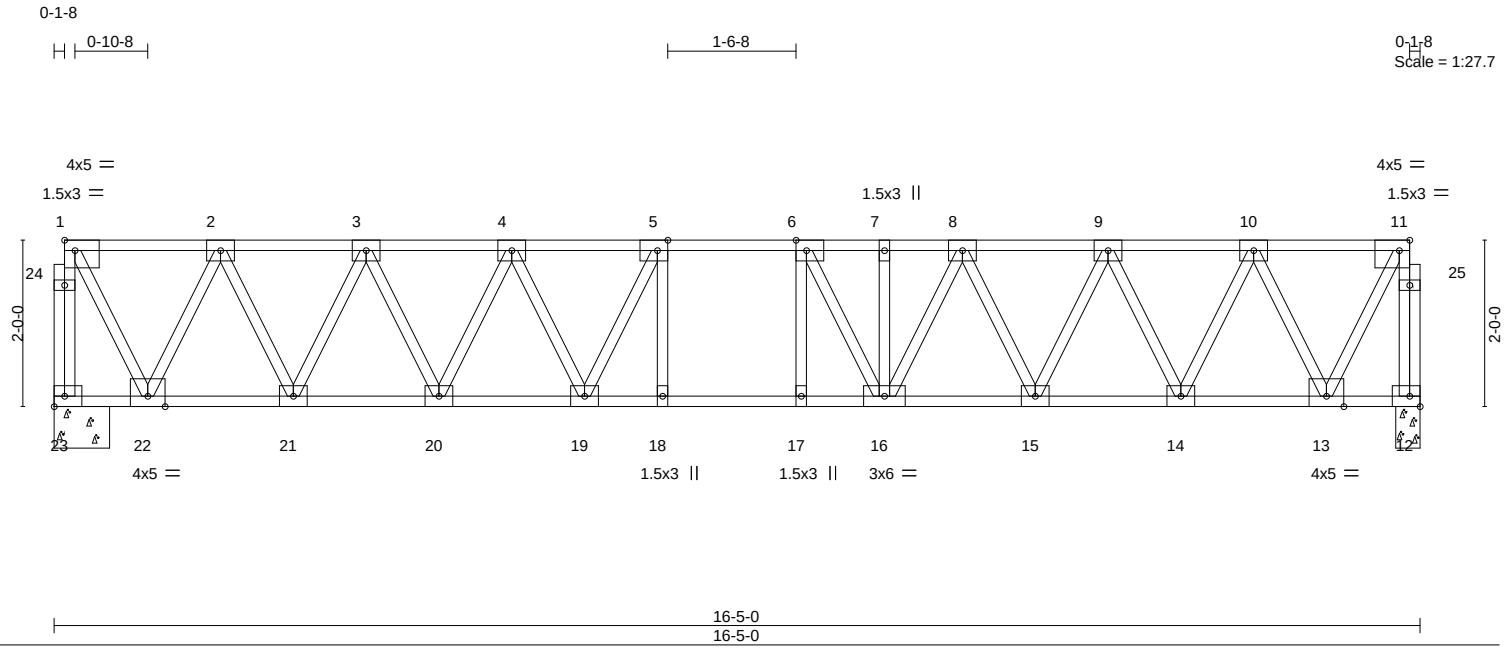

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [5:0-1-8,Edge], [6:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	-0.06	16-17	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.08	16-17	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 113 lb	FT = 20%F, 11%E

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

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) 23=0-8-0, 12=0-3-8
Max Grav 23=642(LC 1), 12=642(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-23=-639/0, 11-12=-639/0, 1-2=-314/0, 2-3=-783/0, 3-4=-1114/0, 4-5=-1315/0, 5-6=-1386/0, 6-7=-1326/0, 7-8=-1326/0, 8-9=-1113/0, 9-10=-783/0, 10-11=-314/0
BOT CHORD 21-22=0/583, 20-21=0/977, 19-20=0/1245, 18-19=0/1386, 17-18=0/1386, 16-17=0/1386, 15-16=0/1243, 14-15=0/977, 13-14=0/583
WEBS 11-13=0/654, 1-22=0/654, 10-13=-636/0, 2-22=-636/0, 10-14=0/473, 2-21=0/472, 9-14=-460/0, 3-21=-459/0, 9-15=0/320, 3-20=0/324, 8-15=-307/0, 4-20=-311/0, 6-16=-302/74, 5-19=-287/21

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758723
4371416	F03	FLOOR	7	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:26 2024 Page 1
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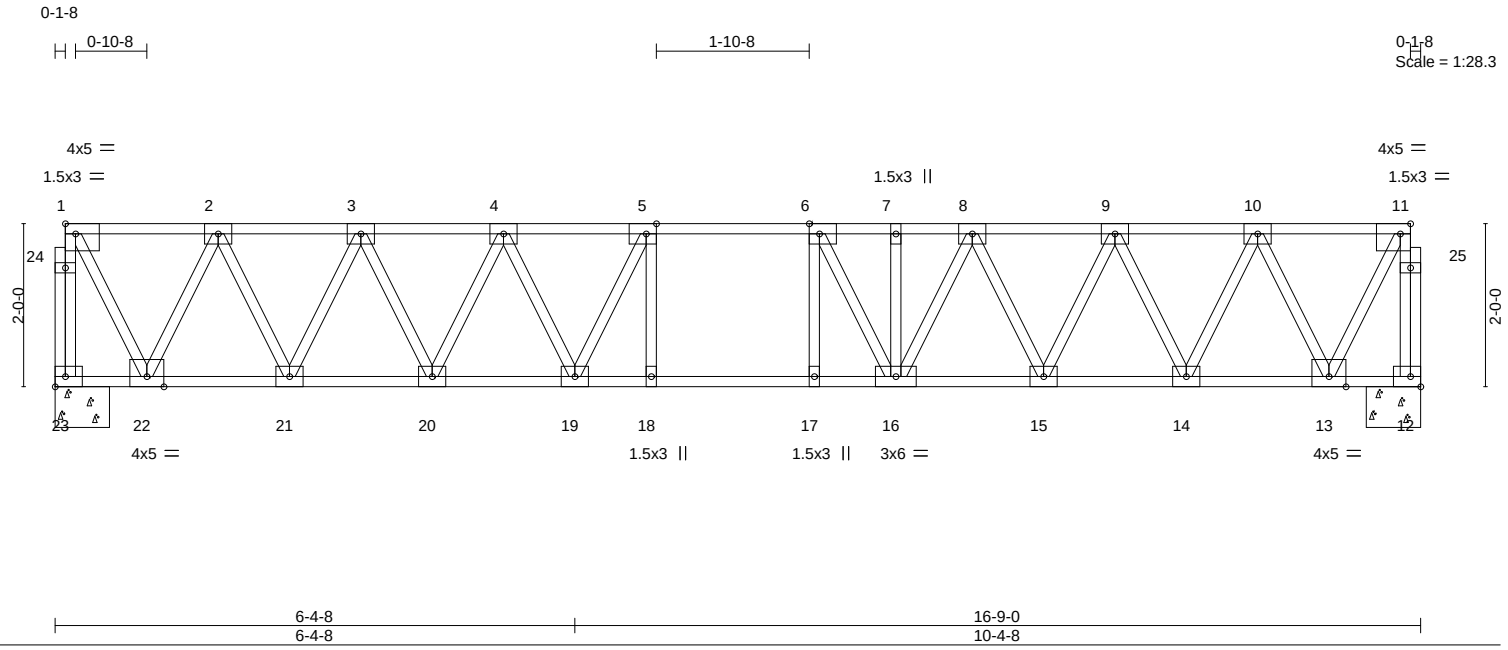

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [5:0-1-8,Edge], [6:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.34	Vert(LL)	-0.07	16-17	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.10	16-17	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.03	12	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 114 lb	FT = 20%F, 11%E

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

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) 23=0-8-0, 12=0-8-0
Max Grav 23=655(LC 1), 12=655(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-23=-652/0, 11-12=-652/0, 1-2=-321/0, 2-3=-802/0, 3-4=-1145/0, 4-5=-1360/0, 5-6=-1440/0, 6-7=-1370/0, 7-8=-1370/0, 8-9=-1145/0, 9-10=-802/0, 10-11=-321/0
BOT CHORD 21-22=0/596, 20-21=0/1003, 19-20=0/1283, 18-19=0/1440, 17-18=0/1440, 16-17=0/1440, 15-16=0/1281, 14-15=0/1003, 13-14=0/596
WEBS 11-13=0/669, 1-22=0/669, 10-13=-651/0, 2-22=-651/0, 10-14=0/488, 2-21=0/487, 9-14=-474/0, 3-21=-474/0, 9-15=0/335, 3-20=0/338, 8-15=-322/0, 4-20=-324/0, 4-19=0/250, 6-16=-340/66, 5-19=-320/12

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758724
4371416	F04	FLOOR	18	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:26 2024 Page 1
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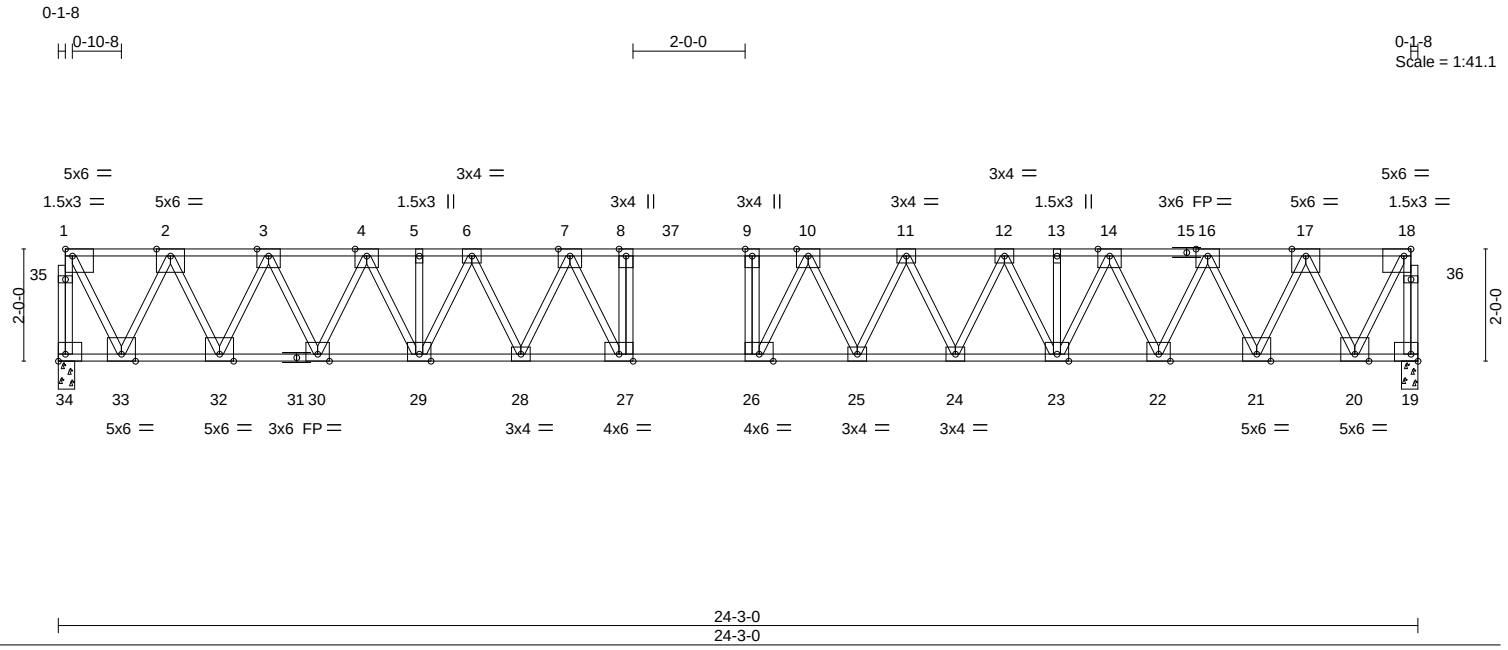

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [18:0-1-8,Edge], [19:Edge,0-1-8], [34:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.50	Vert(LL)	-0.30	25-26	>956	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.40	25-26	>717	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.08	19	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 167 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

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) 34=0-3-8, 19=0-3-8
Max Grav 34=1274(LC 1), 19=1274(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-34=-1269/0, 18-19=-1269/0, 1-2=-640/0, 2-3=-1655/0, 3-4=-2484/0, 4-5=-3172/0, 5-6=-3172/0, 6-7=-3646/0, 7-8=-4051/0, 8-9=-4051/0, 9-10=-4051/0, 10-11=-3962/0, 11-12=-3654/0, 12-13=-3172/0, 13-14=-3172/0, 14-16=-2484/0, 16-17=-1655/0, 17-18=-640/0
BOT CHORD 32-33=0/1194, 30-32=0/2110, 29-30=0/2854, 28-29=0/3460, 27-28=0/3843, 26-27=0/4051, 25-26=0/4050, 24-25=0/3850, 23-24=0/3458, 22-23=0/2853, 21-22=0/2110, 20-21=0/1194
WEBS 18-20=0/1336, 1-33=0/1336, 17-20=-1312/0, 2-33=-1312/0, 17-21=0/1090, 2-32=0/1090, 16-21=-1075/0, 3-32=-1074/0, 16-22=0/885, 3-30=0/884, 14-22=-873/0, 4-30=-875/0, 14-23=0/713, 4-29=0/712, 12-23=-639/0, 6-29=-644/0, 12-24=0/464, 6-28=0/438, 11-24=-463/0, 7-28=-528/0, 11-25=0/312, 7-27=-104/808, 10-25=-362/19, 10-26=-392/517, 8-27=-503/2, 9-26=-339/164

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 4x5 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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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:

December 9,2024

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758725
4371416	F05	FLOOR	8	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:27 2024 Page 1
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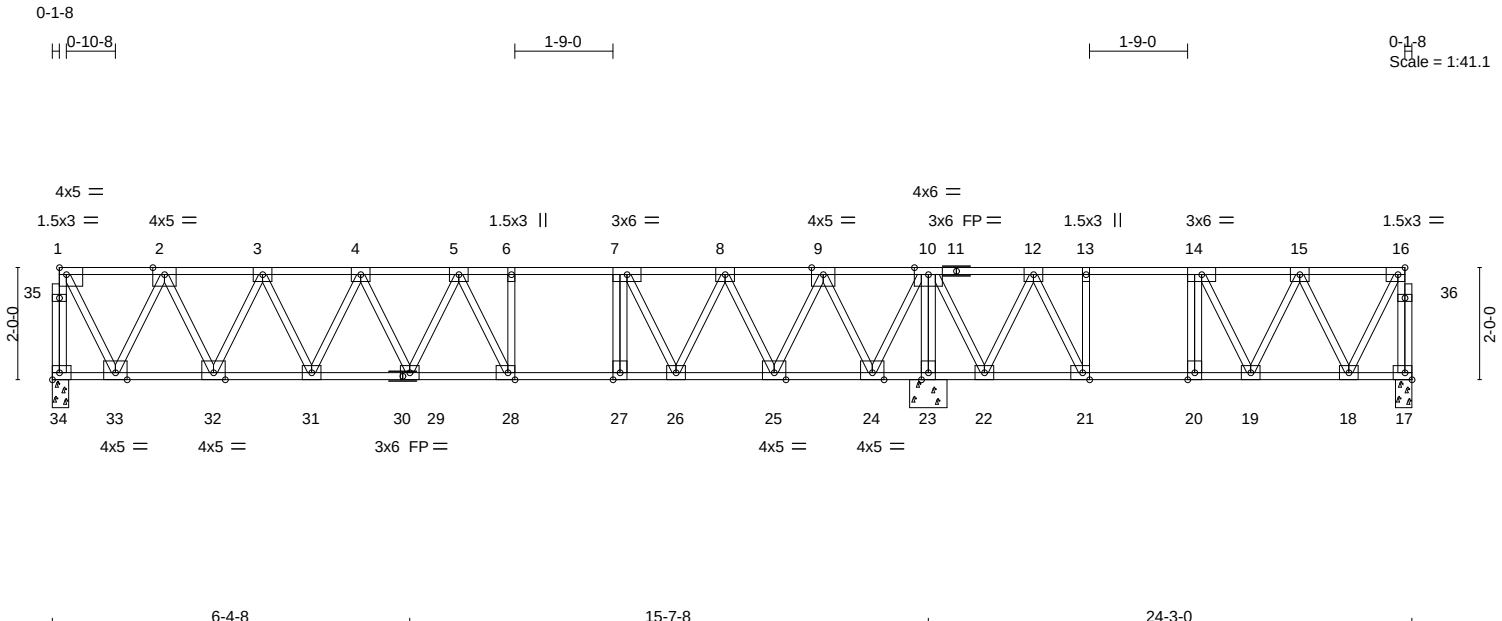

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [16:0-1-8,Edge], [21:0-1-8,Edge], [28:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.11	28-29	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.14	28-29	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.02	17	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 166 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 23-24,22-23,21-22.

REACTIONS. (size) 34=0-3-8, 17=0-3-8, 23=0-8-0
Max Grav 34=820(LC 10), 17=467(LC 7), 23=1314(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-34=-815/0, 16-17=-463/0, 1-2=-398/0, 2-3=-990/0, 3-4=-1394/0, 4-5=-1641/0, 5-6=-1643/0, 6-7=-1643/0, 7-8=-1396/0, 8-9=-984/0, 9-10=-394/0, 10-12=-276/89, 12-13=-544/0, 13-14=-544/0, 14-15=-472/0
BOT CHORD 32-33=0/741, 31-32=0/1232, 29-31=0/1558, 28-29=0/1695, 27-28=0/1643, 26-27=0/1643, 25-26=0/1219, 24-25=0/735, 21-22=-34/434, 20-21=0/544, 19-20=0/544, 18-19=0/392
WEBS 10-23=-1241/0, 1-33=0/829, 10-24=0/828, 2-33=-812/0, 9-24=-830/0, 2-32=0/589, 9-25=0/622, 3-32=-570/0, 8-25=-587/0, 3-31=0/385, 8-26=0/458, 4-31=-388/0, 7-26=-598/0, 16-18=0/438, 10-22=0/389, 15-18=-427/0, 12-22=-450/0, 12-21=0/391, 13-21=-251/0, 5-28=-265/180

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.

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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:

December 9,2024

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758726
4371416	F06	FLOOR	6	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:27 2024 Page 1
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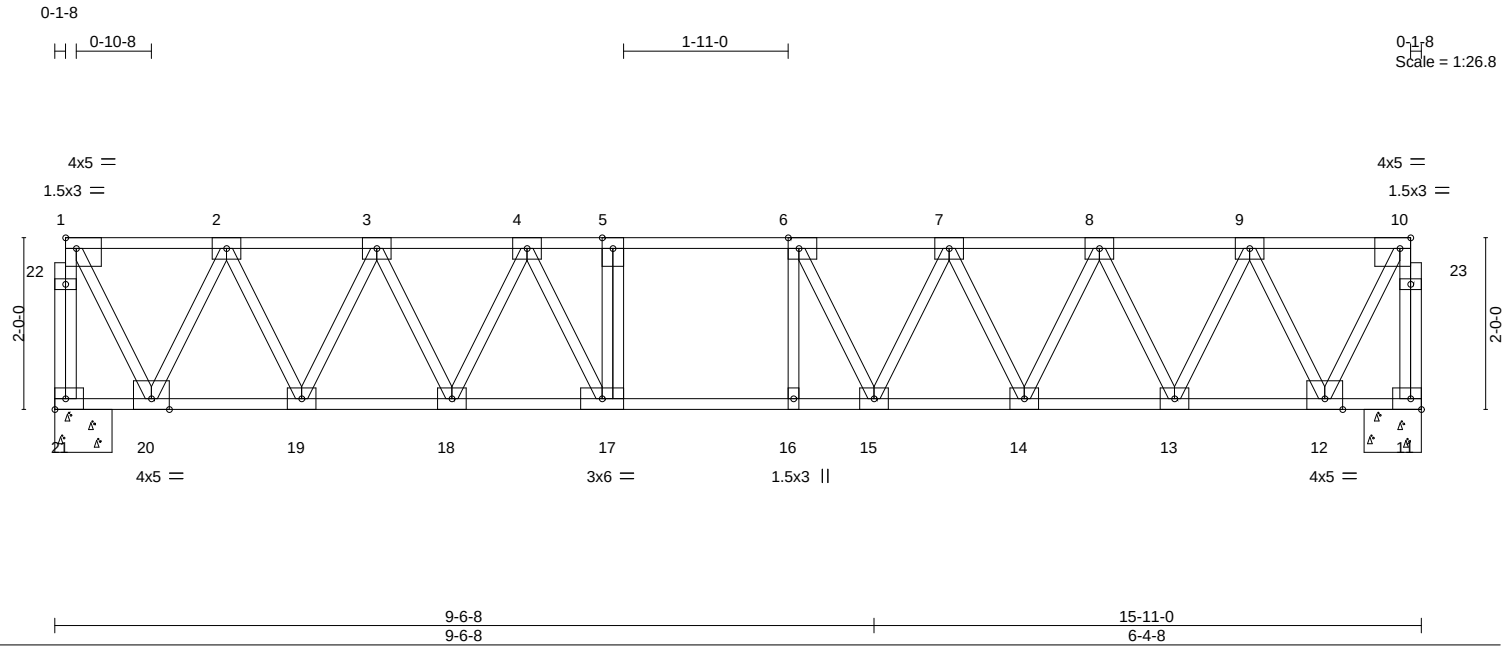

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	-0.08	15-16	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.11	15-16	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	11	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 108 lb	FT = 20%F, 11%E

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

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) 21=0-8-0, 11=0-8-0
Max Grav 21=622(LC 1), 11=622(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-21=-619/0, 10-11=-619/0, 1-2=-303/0, 2-3=-755/0, 3-4=-1061/0, 4-5=-1293/0, 5-6=-1293/0, 6-7=-1248/0, 7-8=-1066/0, 8-9=-753/0, 9-10=-303/0
BOT CHORD 19-20=0/563, 18-19=0/939, 17-18=0/1185, 16-17=0/1293, 15-16=0/1293, 14-15=0/1190, 13-14=0/937, 12-13=0/563
WEBS 10-12=0/632, 1-20=0/631, 9-12=-615/0, 2-20=-615/0, 9-13=0/450, 2-19=0/454, 8-13=-435/0, 3-19=-435/0, 8-14=0/303, 3-18=0/289, 7-14=-294/0, 4-18=-293/0, 4-17=0/368, 6-15=-258/60

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758727
4371416	F07	FLOOR	12	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:28 2024 Page 1
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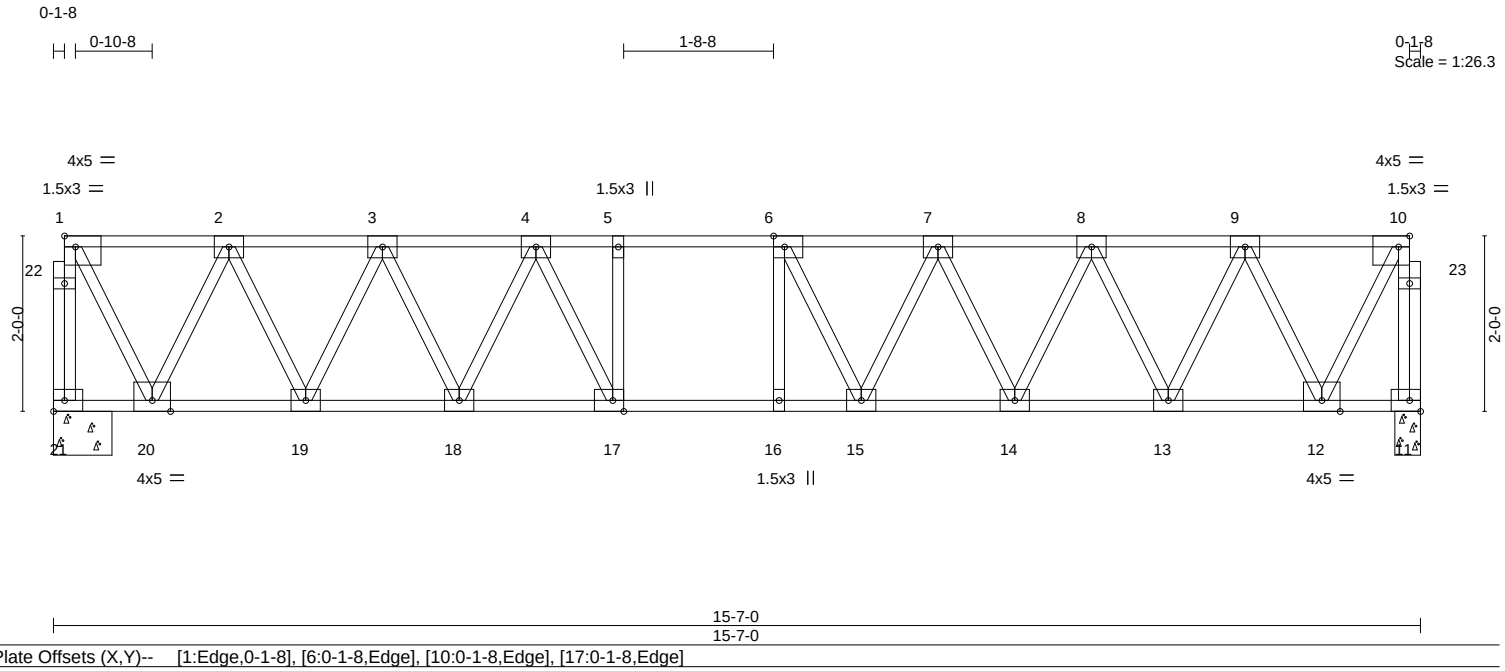

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [10:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.06	15-16	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.09	15-16	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	11	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 105 lb	FT = 20%F, 11%E

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

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) 21=0-8-0, 11=0-3-8
Max Grav 21=609(LC 1), 11=609(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-21=-605/0, 10-11=-606/0, 1-2=-296/0, 2-3=-735/0, 3-4=-1029/0, 4-5=-1240/0, 5-6=-1240/0, 6-7=-1203/0, 7-8=-1034/0, 8-9=-734/0, 9-10=-296/0
BOT CHORD 19-20=0/550, 18-19=0/913, 17-18=0/1147, 16-17=0/1240, 15-16=0/1240, 14-15=0/1152, 13-14=0/912, 12-13=0/550
WEBS 10-12=0/617, 1-20=0/616, 9-12=-600/0, 2-20=-600/0, 9-13=0/435, 2-19=0/439, 8-13=-420/0, 3-19=-421/0, 8-14=0/289, 3-18=0/276, 7-14=-280/0, 4-18=-279/0, 4-17=0/340

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Philip J. O'Regan PE No.58126
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December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758728
4371416	F08	FLOOR	14	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:28 2024 Page 1
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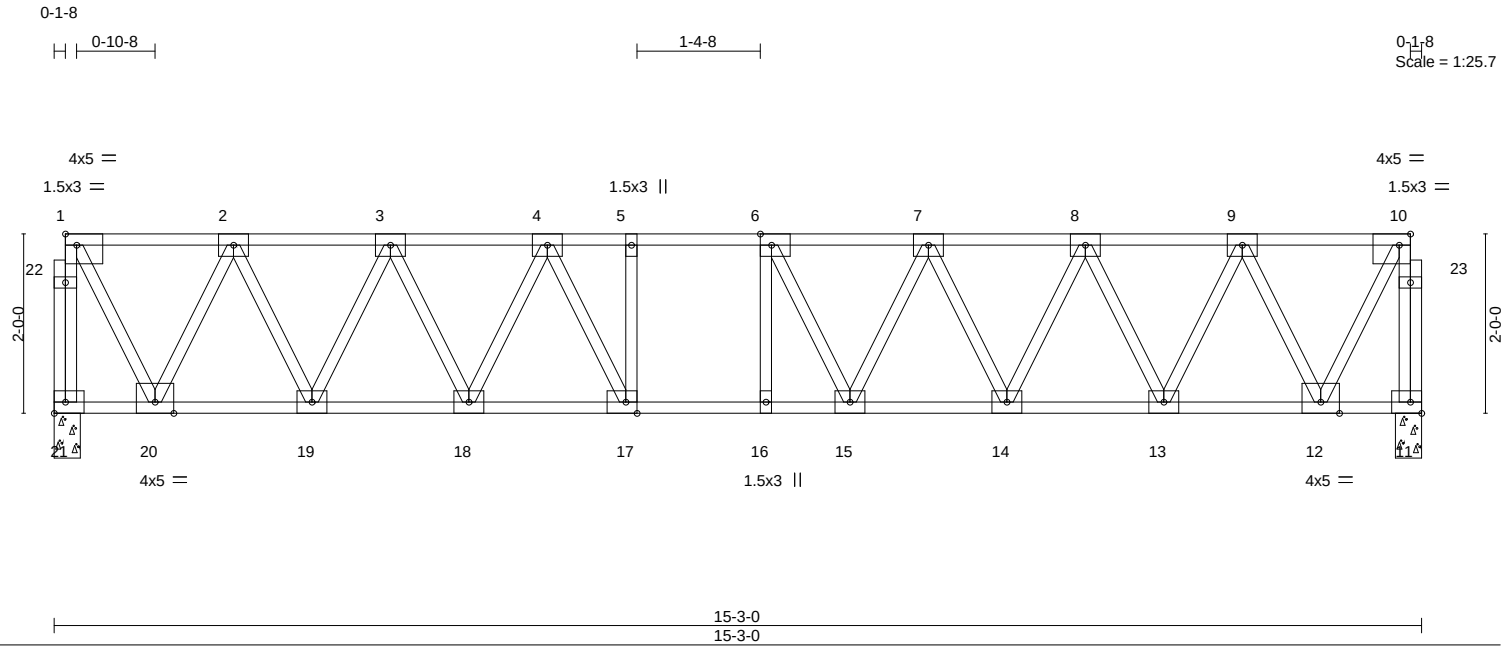

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [10:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.05	15-16	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.07	15-16	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	11	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 104 lb	FT = 20%F, 11%E

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

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) 21=0-3-8, 11=0-3-8
Max Grav 21=595(LC 1), 11=595(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-21=-592/0, 10-11=-592/0, 1-2=-289/0, 2-3=-715/0, 3-4=-998/0, 4-5=-1189/0, 5-6=-1189/0, 6-7=-1159/0, 7-8=-1002/0, 8-9=-714/0, 9-10=-289/0
BOT CHORD 19-20=0/536, 18-19=0/887, 17-18=0/1110, 16-17=0/1189, 15-16=0/1189, 14-15=0/1114, 13-14=0/886, 12-13=0/537
WEBS 10-12=0/602, 1-20=0/601, 9-12=-585/0, 2-20=-585/0, 9-13=0/420, 2-19=0/424, 8-13=-406/0, 3-19=-406/0, 8-14=0/275, 3-18=0/263, 7-14=-265/0, 4-18=-264/0, 4-17=-4/301

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758729
4371416	F09	FLOOR	6	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:29 2024 Page 1
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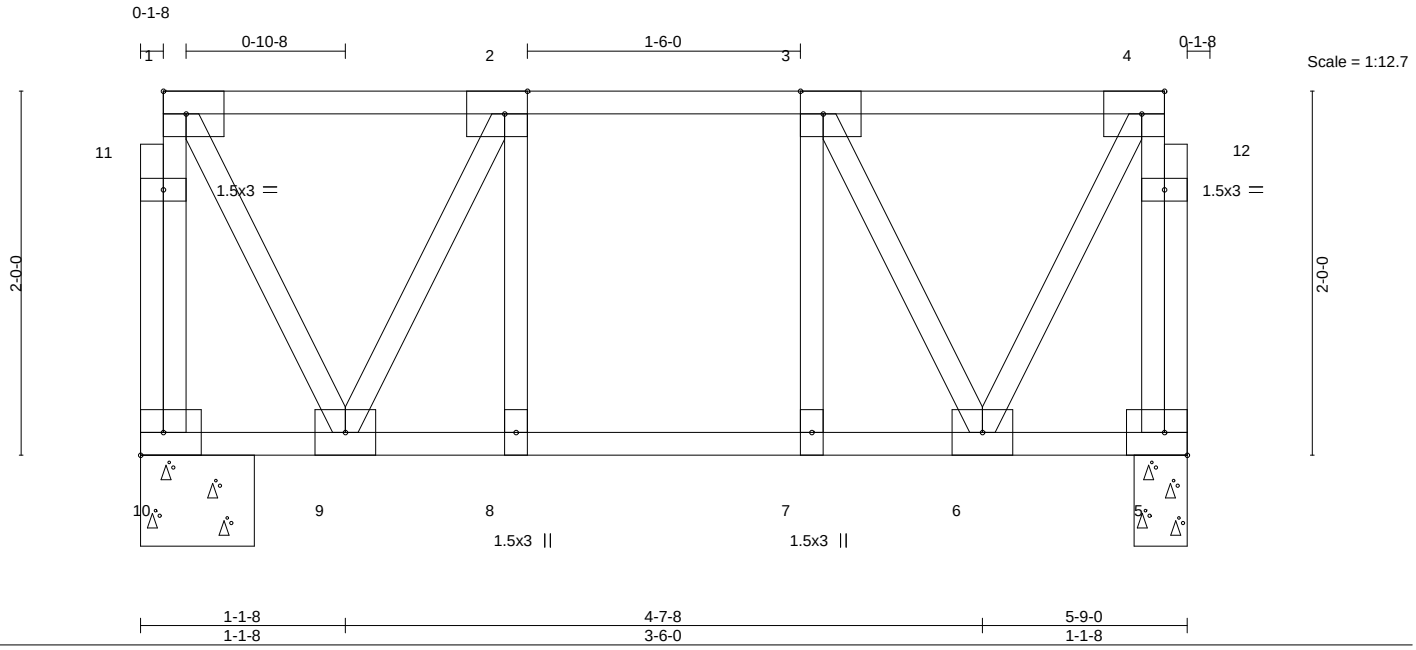

Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge], [4:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.15	Vert(LL)	-0.01	8	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.13	Vert(CT)	-0.01	8	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 43 lb	FT = 20%F, 11%E

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

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

REACTIONS. (size) 10=0-7-8, 5=0-3-8
Max Grav 10=215(LC 1), 5=215(LC 1)

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

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758730
4371416	F10	FLOOR	8	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:29 2024 Page 1
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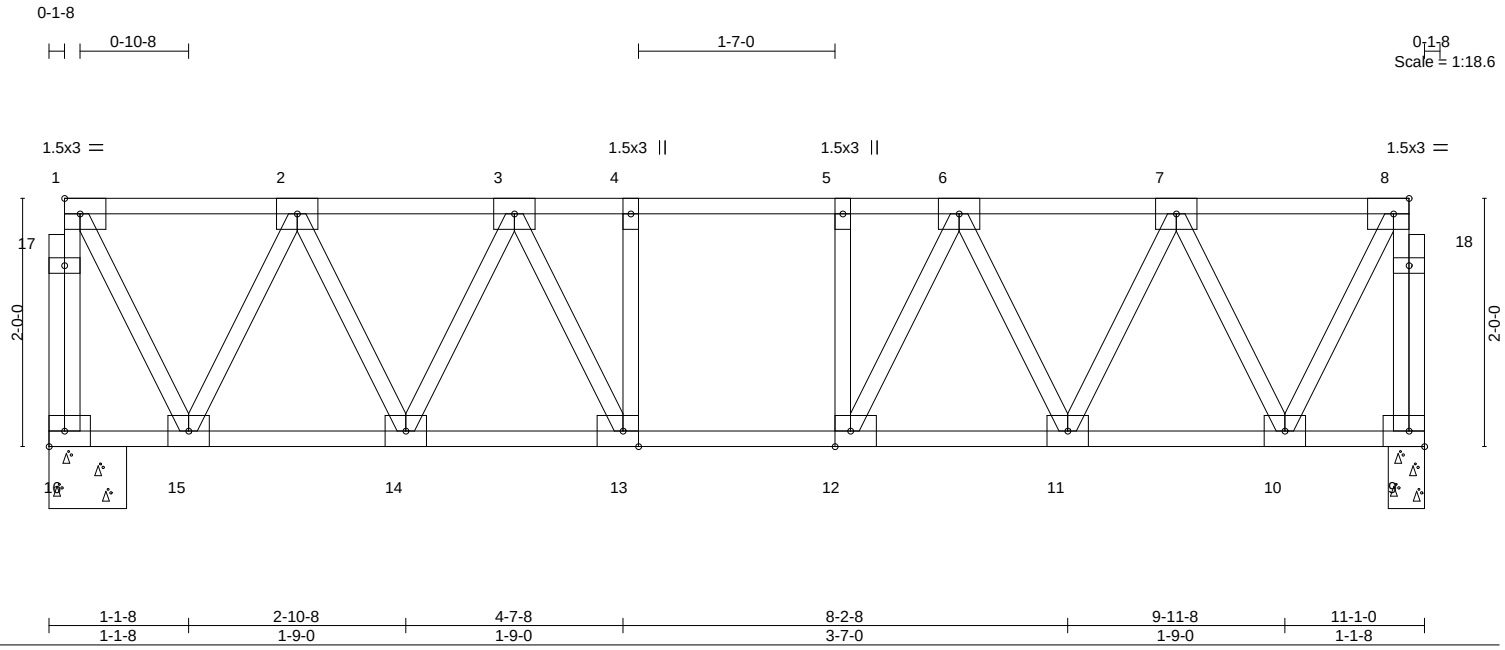

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.21	Vert(LL)	-0.02	11-12	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.24	Vert(CT)	-0.03	13-14	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	9	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 77 lb	FT = 20%F, 11%E

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

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) 16=0-7-8, 9=0-3-8
Max Grav 16=429(LC 1), 9=429(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-426/0, 8-9=-426/0, 2-3=-469/0, 3-4=-617/0, 4-5=-617/0, 5-6=-617/0, 6-7=-469/0
BOT CHORD 14-15=0/371, 13-14=0/561, 12-13=0/617, 11-12=0/561, 10-11=0/371
WEBS 8-10=0/417, 1-15=0/417, 7-10=-402/0, 2-15=-402/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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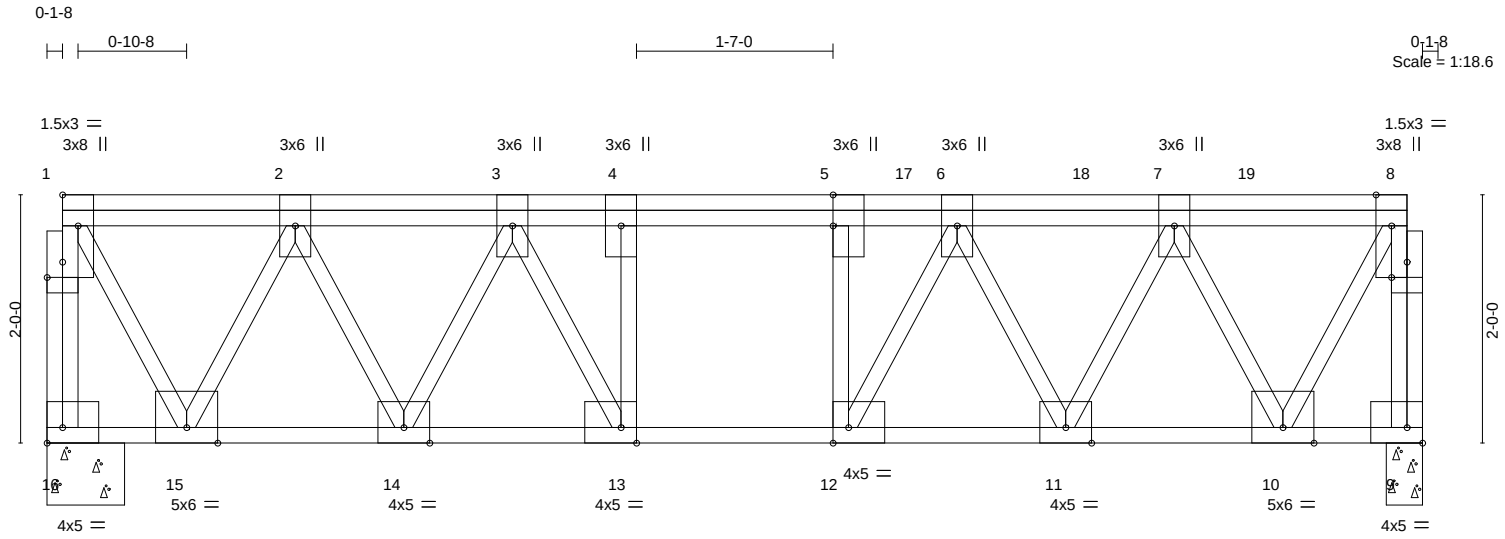
Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758731
4371416	F10G	FLOOR GIRDER	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:30 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-ncwnq3A9OX5MhTudG5I0vxl1a_JIVGGZ0H4xqQyAnL3



1-1-8	2-10-8	4-7-8	8-2-8	9-11-8	11-1-0
1-1-8	1-9-0	1-9-0	3-7-0	1-9-0	1-1-8

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [1:0-1-8,0-1-8], [5:0-3-0,0-0-0], [8:0-1-8,0-1-8], [9:Edge,0-1-8], [12:0-1-8,Edge], [13:0-1-8,Edge], [16:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.04	11-12	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.56	Vert(CT)	-0.06	11-12	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 91 lb	FT = 20%F, 11%E

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

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) 16=0-7-8, 9=0-3-8
Max Grav 16=1225(LC 1), 9=1208(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-1219/0, 8-9=-1202/0, 1-2=-588/0, 2-3=-1378/0, 3-4=-1848/0, 4-5=-1848/0, 5-6=-1848/0, 6-7=-1417/0, 7-8=-603/0
BOT CHORD 14-15=0/1089, 13-14=0/1659, 12-13=0/1848, 11-12=0/1705, 10-11=0/1117
WEBS 8-10=0/1234, 1-15=0/1205, 7-10=-1185/0, 2-15=-1154/0, 7-11=0/689, 2-14=0/665, 6-11=-663/0, 5-12=-324/0, 3-14=-647/0, 6-12=0/389, 4-13=-537/0, 3-13=0/669

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
3) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 202 lb down at 7-1-2, and 202 lb down at 8-5-2, and 202 lb down at 9-9-2 on top chord. The design/selection of such connection device(s) is the responsibility of others.
4) 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-16=-10, 1-17=-210, 8-17=-110
Concentrated Loads (lb)
Vert: 17=-148(F) 18=-148(F) 19=-148(F)

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758732
4371416	F11	Floor	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:30 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-ncwnq3A9OX5MhTudG5I0vxl4A_P?VO5Z0H4xqQyAnL3

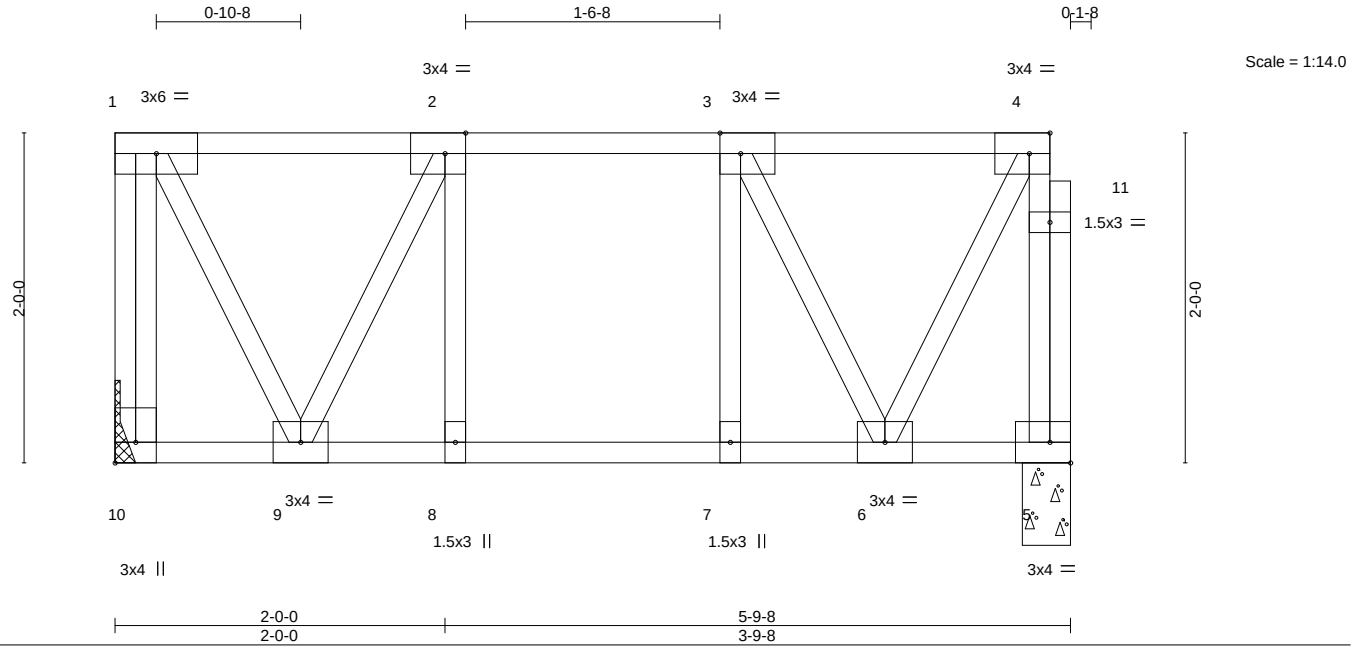

Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge], [4:0-1-8,Edge], [10:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	-0.01	8	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.13	Vert(CT)	-0.01	8	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 44 lb	FT = 20%F, 11%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 5=0-3-8
Max Grav 10=222(LC 1), 5=217(LC 1)

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

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758733
4371416	F12	FLOOR	16	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:31 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-FoU91PAn9rEDIdTpqppFR8HABOdkEhCiFxqUMsyAnL2

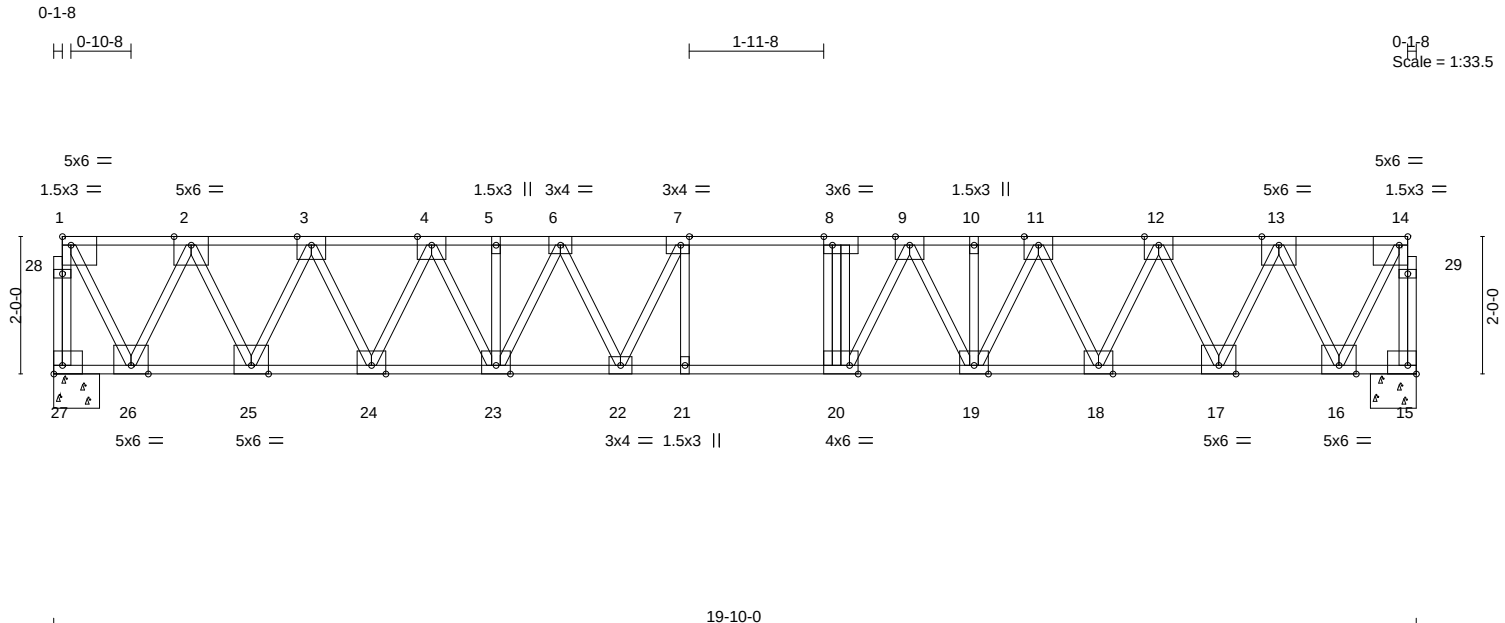

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [8:0-1-8,Edge], [14:0-1-8,Edge], [15:Edge,0-1-8], [20:0-1-8,Edge], [27:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	80.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.20	21-22	>999	360	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.26	21-22	>896	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.06	15	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 139 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

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) 27=0-8-0, 15=0-8-0
Max Grav 27=1363(LC 1), 15=1363(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-27=-1357/0, 14-15=-1357/0, 1-2=-675/0, 2-3=-1719/0, 3-4=-2519/0, 4-5=-3122/0, 5-6=-3122/0, 6-7=-3459/0, 7-8=-3548/0, 8-9=-3542/0, 9-10=-3123/0, 10-11=-3123/0, 11-12=-2520/0, 12-13=-1719/0, 13-14=-675/0
BOT CHORD 25-26=0/1260, 24-25=0/2173, 23-24=0/2860, 22-23=0/3351, 21-22=0/3548, 20-21=0/3548, 19-20=0/3335, 18-19=0/2858, 17-18=0/2173, 16-17=0/1259
WEBS 14-16=0/1408, 1-26=0/1407, 13-16=-1383/0, 2-26=-1383/0, 13-17=0/1087, 2-25=0/1087, 12-17=-1074/0, 3-25=-1073/0, 12-18=0/820, 3-24=0/819, 11-18=-800/0, 4-24=-805/0, 11-19=0/592, 4-23=0/585, 9-19=-513/0, 6-23=-513/0, 9-20=-93/815, 6-22=-18/486, 7-22=-640/249, 7-21=-290/223, 8-20=-502/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 4x5 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758734
4371416	F13	FLOOR	9	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:31 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-FoU91PAn9rEDIdTpqppFR8HBuOdEEhNiFxqUMsyAnL2

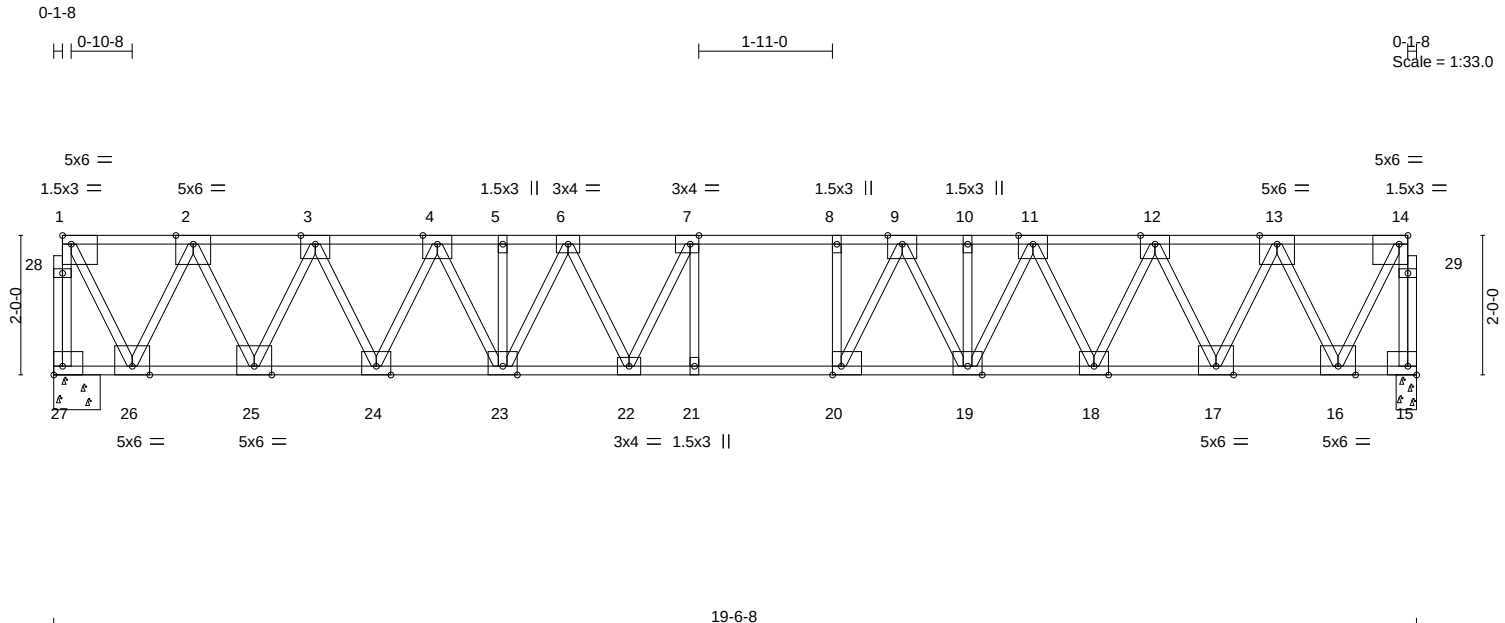

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [14:0-1-8,Edge], [15:Edge,0-1-8], [20:0-1-8,Edge], [27:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	80.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.18	21-22	>999	360	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.24	21-22	>976	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.05	15	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 133 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

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) 27=0-8-0, 15=0-3-8
Max Grav 27=1342(LC 1), 15=1342(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-27=-1337/0, 14-15=-1337/0, 1-2=-664/0, 2-3=-1689/0, 3-4=-2470/0, 4-5=-3053/0, 5-6=-3053/0, 6-7=-3370/0, 7-8=-3444/0, 8-9=-3444/0, 9-10=-3054/0, 10-11=-3054/0, 11-12=-2471/0, 12-13=-1689/0, 13-14=-664/0
BOT CHORD 25-26=0/1239, 24-25=0/2133, 23-24=0/2802, 22-23=0/3273, 21-22=0/3444, 20-21=0/3444, 19-20=0/3258, 18-19=0/2800, 17-18=0/2134, 16-17=0/1239
WEBS 14-16=0/1385, 1-26=0/1385, 13-16=-1360/0, 2-26=-1361/0, 13-17=0/1065, 2-25=0/1065, 12-17=-1052/0, 3-25=-1050/0, 12-18=0/797, 3-24=0/797, 11-18=-777/0, 4-24=-783/0, 11-19=0/568, 4-23=0/561, 9-19=-515/0, 6-23=-494/0, 9-20=-107/793, 6-22=-34/455, 7-22=-590/256, 7-21=-289/206, 8-20=-492/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 4x5 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758735
4371416	F14	FLOOR	8	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:31 2024 Page 1
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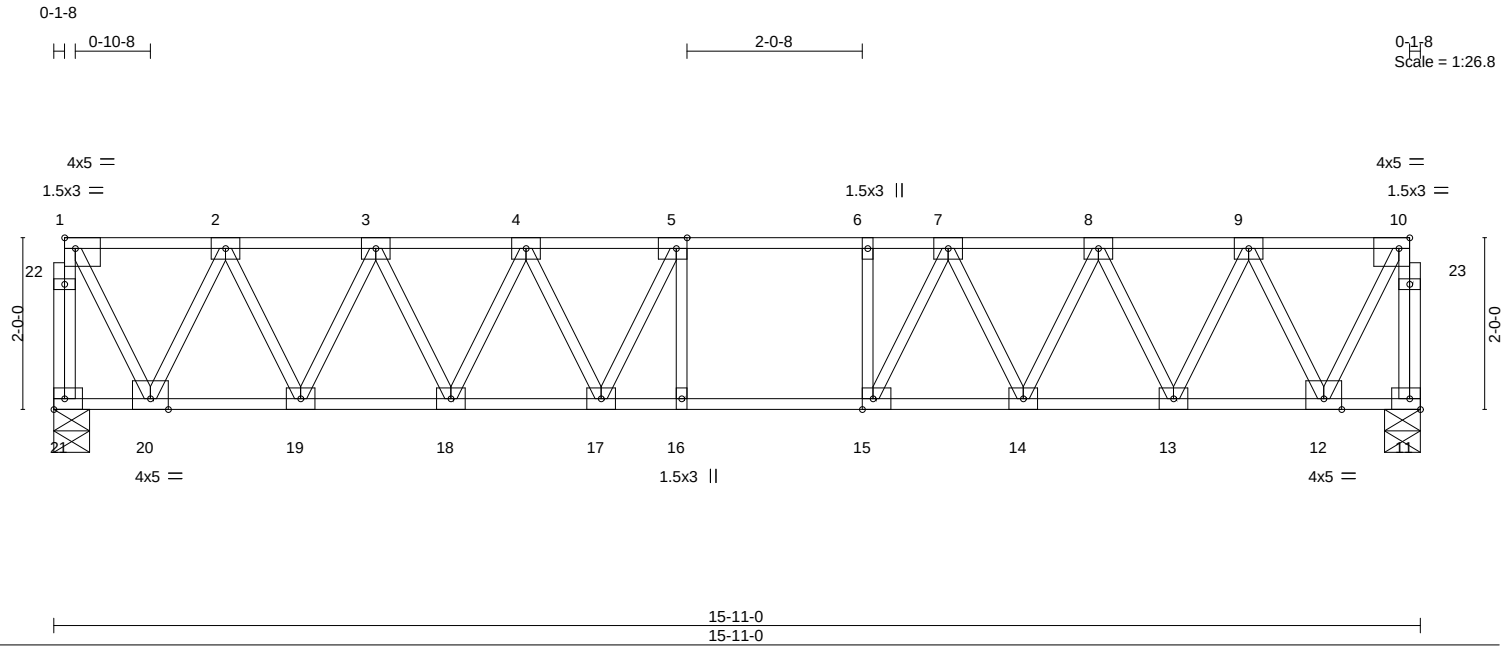

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [5:0-1-8,Edge], [10:0-1-8,Edge], [15:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.08	16-17	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.11	16-17	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	11	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 106 lb	FT = 20%F, 11%E

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

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) 21=0-5-0, 11=0-5-0
Max Grav 21=622(LC 1), 11=622(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-21=-619/0, 10-11=-618/0, 1-2=-303/0, 2-3=-753/0, 3-4=-1066/0, 4-5=-1248/0, 5-6=-1292/0, 6-7=-1292/0, 7-8=-1061/0, 8-9=-755/0, 9-10=-303/0
BOT CHORD 19-20=0/563, 18-19=0/937, 17-18=0/1190, 16-17=0/1292, 15-16=0/1292, 14-15=0/1185, 13-14=0/939, 12-13=0/563
WEBS 10-12=0/631, 1-20=0/632, 9-12=-615/0, 2-20=-615/0, 9-13=0/454, 2-19=0/450, 8-13=-435/0, 3-19=-435/0, 8-14=0/288, 3-18=0/304, 7-14=-295/0, 4-18=-294/0, 7-15=0/380, 5-17=-257/61

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758736
4371416	F15	FLOOR	4	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:32 2024 Page 1
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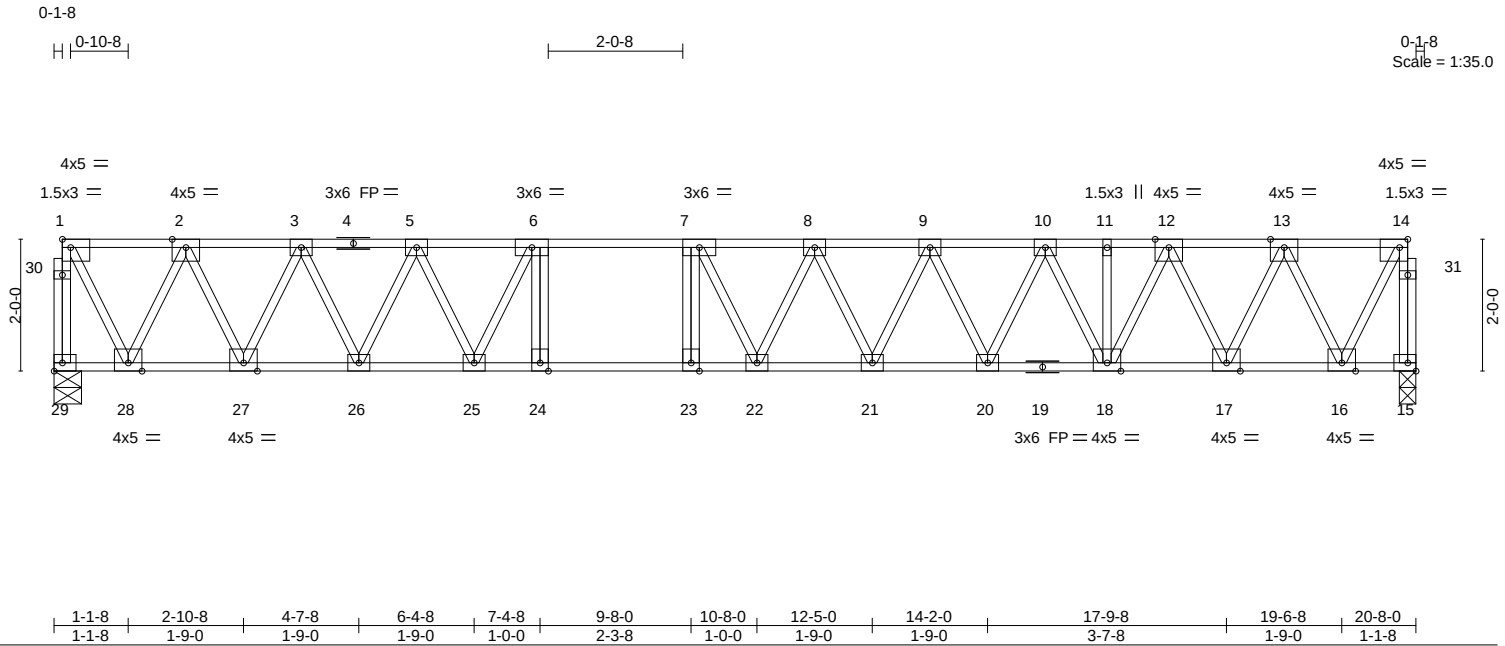

1-1-8	2-10-8	4-7-8	6-4-8	7-4-8	9-8-0	10-8-0	12-5-0	14-2-0	17-9-8	19-6-8	20-8-0
1-1-8	1-9-0	1-9-0	1-9-0	1-0-0	2-3-8	1-0-0	1-9-0	1-9-0	3-7-8	1-9-0	1-1-8

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

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.18	22-23	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.62	Vert(CT)	-0.27	22-23	>917	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.04	15	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 142 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

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) 29=0-5-0, 15=0-3-0
Max Grav 29=812(LC 1), 15=812(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-29=-808/0, 14-15=-808/0, 1-2=-404/0, 2-3=-1032/0, 3-5=-1520/0, 5-6=-1881/0, 6-7=-2138/0, 7-8=-2213/0, 8-9=-2123/0, 9-10=-1902/0, 10-11=-1541/0, 11-12=-1541/0, 12-13=-1031/0, 13-14=-404/0
BOT CHORD 27-28=0/752, 26-27=0/1308, 25-26=0/1719, 24-25=0/2138, 23-24=0/2138, 22-23=0/2138, 21-22=0/2209, 20-21=0/2040, 18-20=0/1755, 17-18=0/1302, 16-17=0/753
WEBS 6-24=-8/342, 7-23=-318/33, 1-28=0/843, 2-28=-822/0, 2-27=0/662, 3-27=-654/0, 3-26=0/502, 14-16=0/844, 13-16=-825/0, 13-17=0/657, 12-17=-642/0, 12-18=0/534, 10-18=-479/0, 10-20=0/345, 9-20=-327/0, 5-26=-469/0, 5-25=0/425, 6-25=-668/0, 7-22=-171/330

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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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:

December 9,2024

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758737
4371416	F16	FLOOR	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:33 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-BBcvS5C1hSUxYxdCyDrjWZNUACKiift?iFJbRlyAnL0

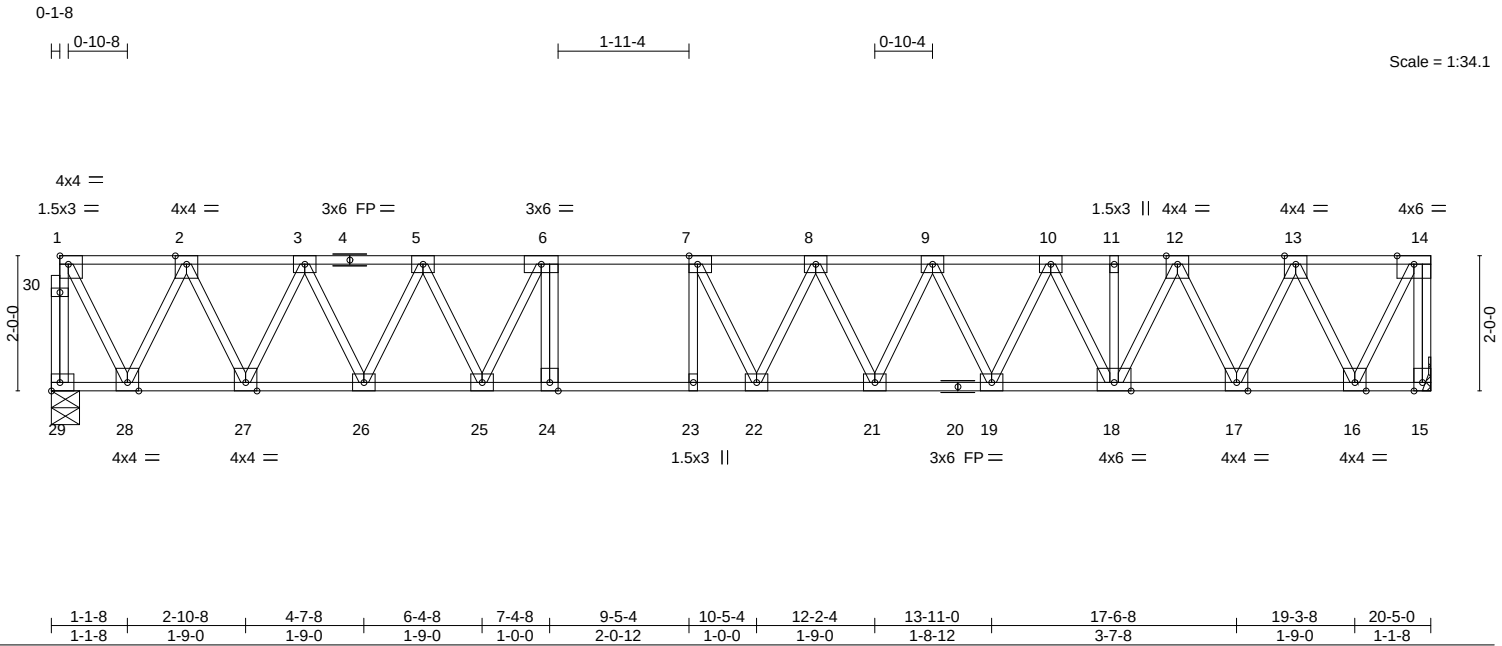

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	-0.16	22-23	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.24	22-23	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.03	15	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 139 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

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) 29=0-5-0, 15=Mechanical
Max Grav 29=802(LC 1), 15=807(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-29=-798/0, 14-15=-802/0, 1-2=-399/0, 2-3=-1017/0, 3-5=-1497/0, 5-6=-1847/0, 6-7=-2089/0, 7-8=-2159/0, 8-9=-2078/0, 9-10=-1868/0, 10-11=-1517/0, 11-12=-1517/0, 12-13=-1017/0, 13-14=-398/0
BOT CHORD 27-28=0/742, 26-27=0/1288, 25-26=0/1692, 24-25=0/2089, 23-24=0/2089, 22-23=0/2089, 21-22=0/2159, 19-21=0/2001, 18-19=0/1726, 17-18=0/1283, 16-17=0/744
WEBS 6-24=-13/324, 7-23=-312/36, 1-28=0/832, 2-28=-811/0, 2-27=0/651, 3-27=-642/0, 3-26=0/492, 5-26=-461/0, 14-16=0/847, 13-16=-817/0, 13-17=0/645, 12-17=-630/0, 12-18=0/523, 10-18=-468/0, 10-19=0/334, 9-19=-317/0, 5-25=0/408, 6-25=-630/0, 7-22=-164/326

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

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Date:

December 9,2024

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758738
4371416	F17	FLOOR	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:33 2024 Page 1
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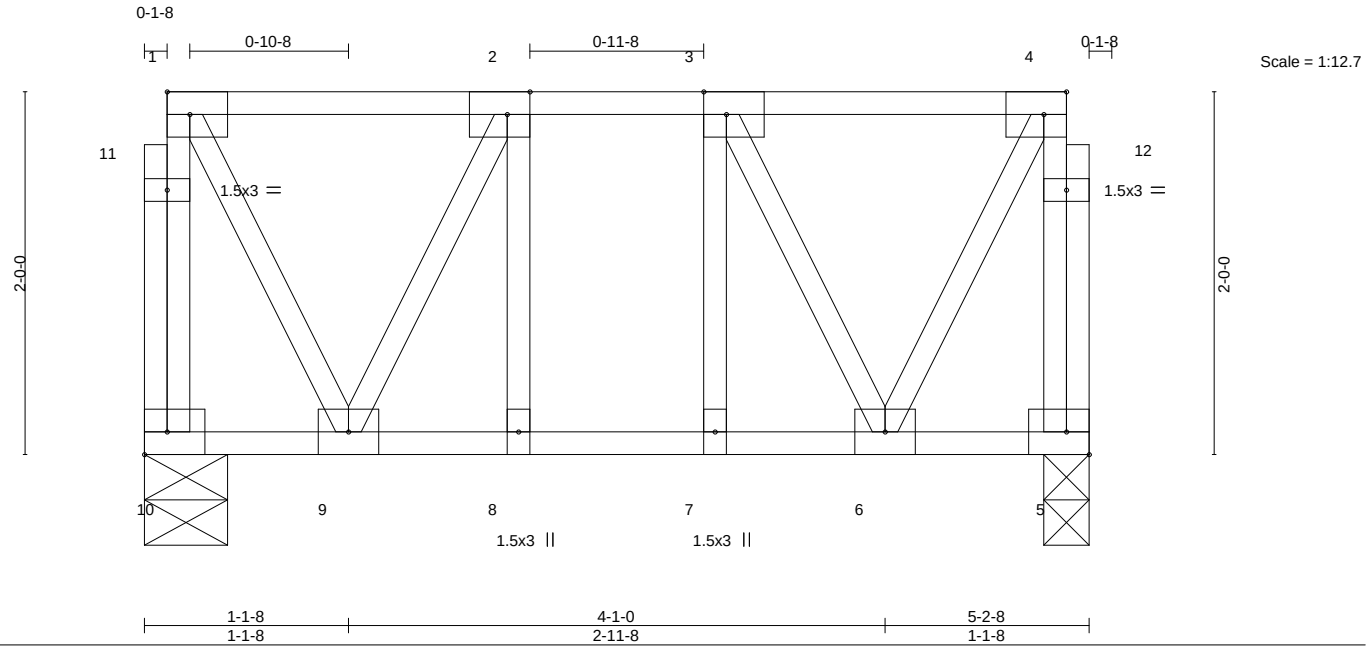

Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge], [4:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.21	Vert(LL)	-0.01	8	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.15	Vert(CT)	-0.01	8	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 42 lb	FT = 20%F, 11%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-2-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-5-8, 5=0-3-0
Max Grav 10=258(LC 1), 5=258(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-255/0, 4-5=-255/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758739
4371416	F18	FLOOR GIRDER	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:33 2024 Page 1
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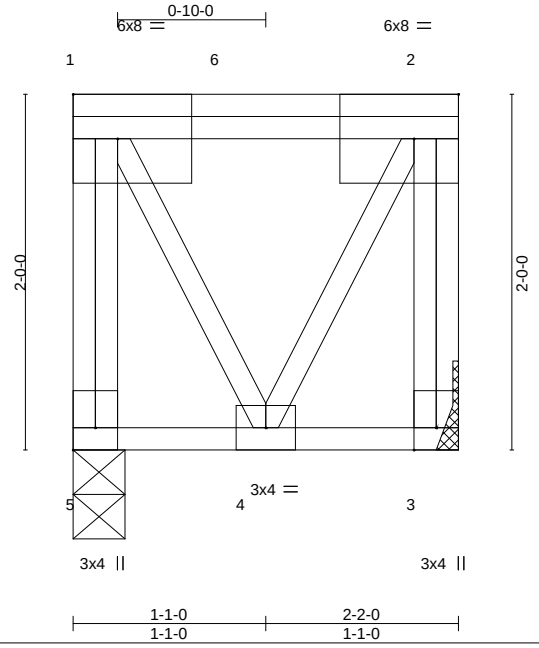

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [5:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.00	4	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	-0.00	5	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-P							Weight: 25 lb	FT = 20%F, 11%E

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

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical
Max Grav 5=513(LC 1), 3=398(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-5=-509/0, 2-3=-393/0

NOTES-
1) Refer to girder(s) for truss to truss connections.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
3) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 758 lb down at 0-11-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
4) 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 3-5=-7, 1-2=-73
Concentrated Loads (lb)
Vert: 6=-758(B)

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December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758740
4371416	F19	FLOOR	5	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:34 2024 Page 1
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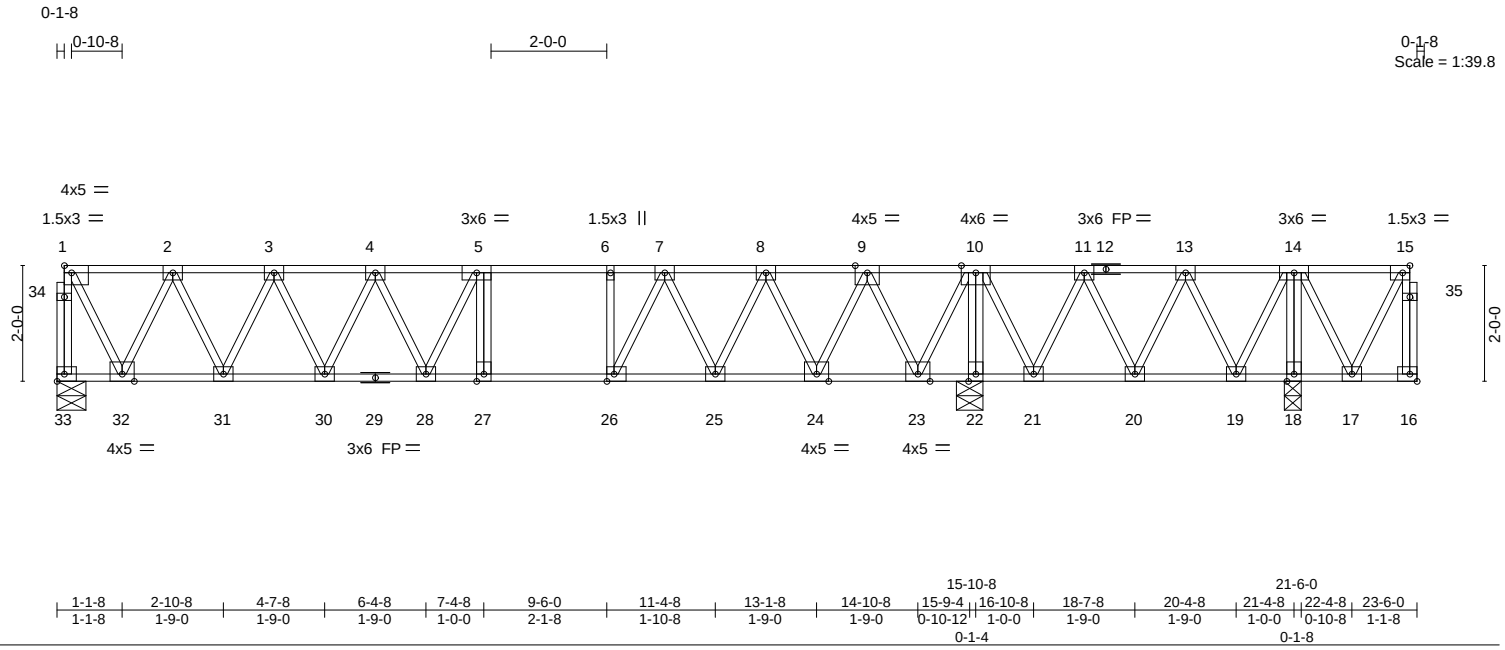

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [15:0-1-8,Edge], [26:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.49	Vert(LL)	-0.08	27-28	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.69	Vert(CT)	-0.12	27-28	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.02	22	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 165 lb	FT = 20%F, 11%E

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

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

REACTIONS. (size) 33=0-6-0, 22=0-5-8, 18=0-3-8
Max Grav 33=580(LC 5), 22=1022(LC 3), 18=352(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-33=-577/0, 1-2=-281/0, 2-3=-692/0, 3-4=-966/0, 4-5=-1107/0, 5-6=-1103/0, 6-7=-1103/0, 7-8=-792/0, 8-9=-446/0, 9-10=-139/263, 10-11=-44/373
BOT CHORD 31-32=0/521, 30-31=0/855, 28-30=0/1075, 27-28=0/1103, 26-27=0/1103, 25-26=0/945, 24-25=0/652, 23-24=-19/294, 22-23=-539/0, 21-22=-539/0
WEBS 10-22=-986/0, 14-18=-338/0, 1-32=0/585, 2-32=-569/0, 2-31=0/402, 3-31=-386/0, 3-30=0/262, 4-30=-258/0, 10-23=0/671, 9-23=-662/0, 9-24=0/519, 8-24=-490/0, 8-25=0/332, 11-21=-351/0, 10-21=0/353, 7-25=-365/0, 7-26=0/402

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758741
4371416	F20	FLOOR	7	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:35 2024 Page 1
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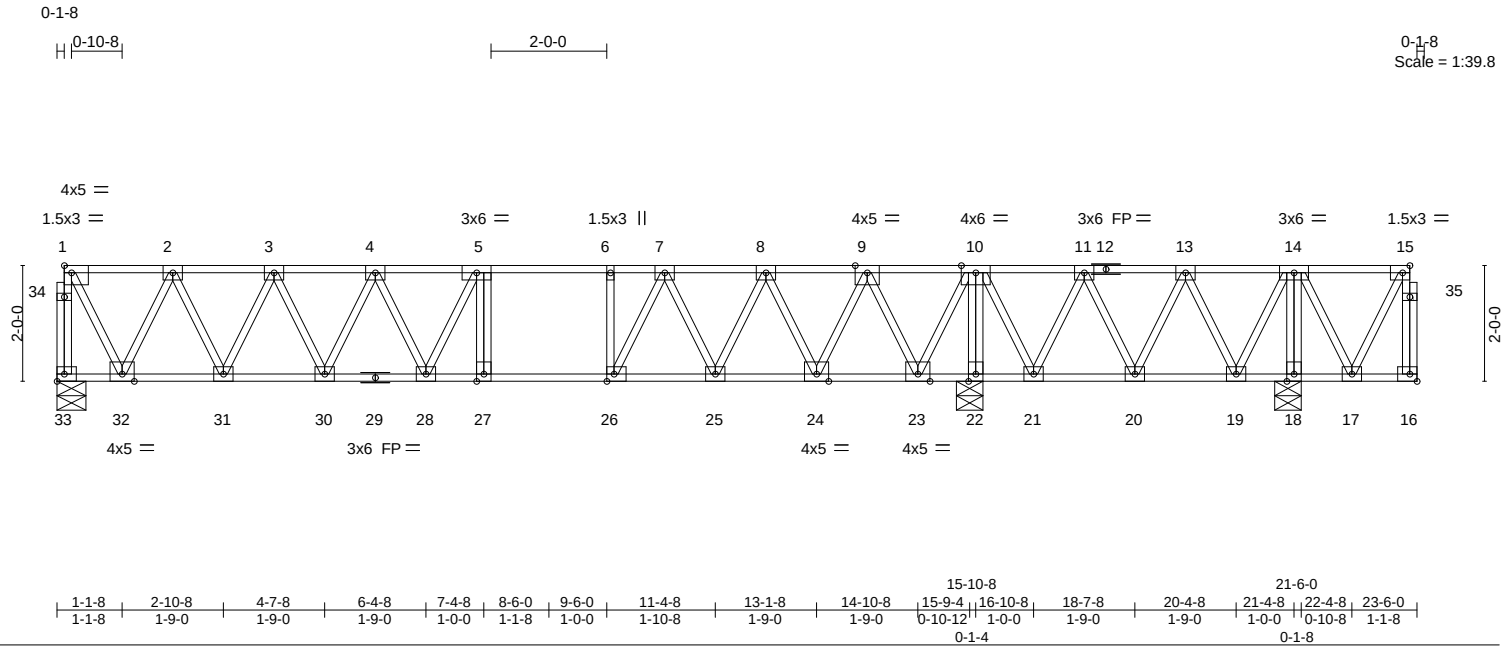

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [15:0-1-8,Edge], [26:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.49	Vert(LL)	-0.08	27-28	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.69	Vert(CT)	-0.12	27-28	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.02	22	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 165 lb	FT = 20%F, 11%E

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

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

REACTIONS. (size) 33=0-6-0, 22=0-5-8, 18=0-5-8
Max Grav 33=580(LC 5), 22=1022(LC 3), 18=352(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-33=-577/0, 1-2=-281/0, 2-3=-692/0, 3-4=-966/0, 4-5=-1107/0, 5-6=-1103/0, 6-7=-1103/0, 7-8=-792/0, 8-9=-446/0, 9-10=-139/263, 10-11=-44/373
BOT CHORD 31-32=0/521, 30-31=0/855, 28-30=0/1075, 27-28=0/1103, 26-27=0/1103, 25-26=0/945, 24-25=0/652, 23-24=-19/294, 22-23=-539/0, 21-22=-539/0
WEBS 10-22=-986/0, 14-18=-338/0, 1-32=0/585, 2-32=-569/0, 2-31=0/402, 3-31=-386/0, 3-30=0/262, 4-30=-258/0, 10-23=0/671, 9-23=-662/0, 9-24=0/519, 8-24=-490/0, 8-25=0/332, 11-21=-351/0, 10-21=0/353, 7-25=-365/0, 7-26=0/402

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758742
4371416	F21	FLOOR	15	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:35 2024 Page 1
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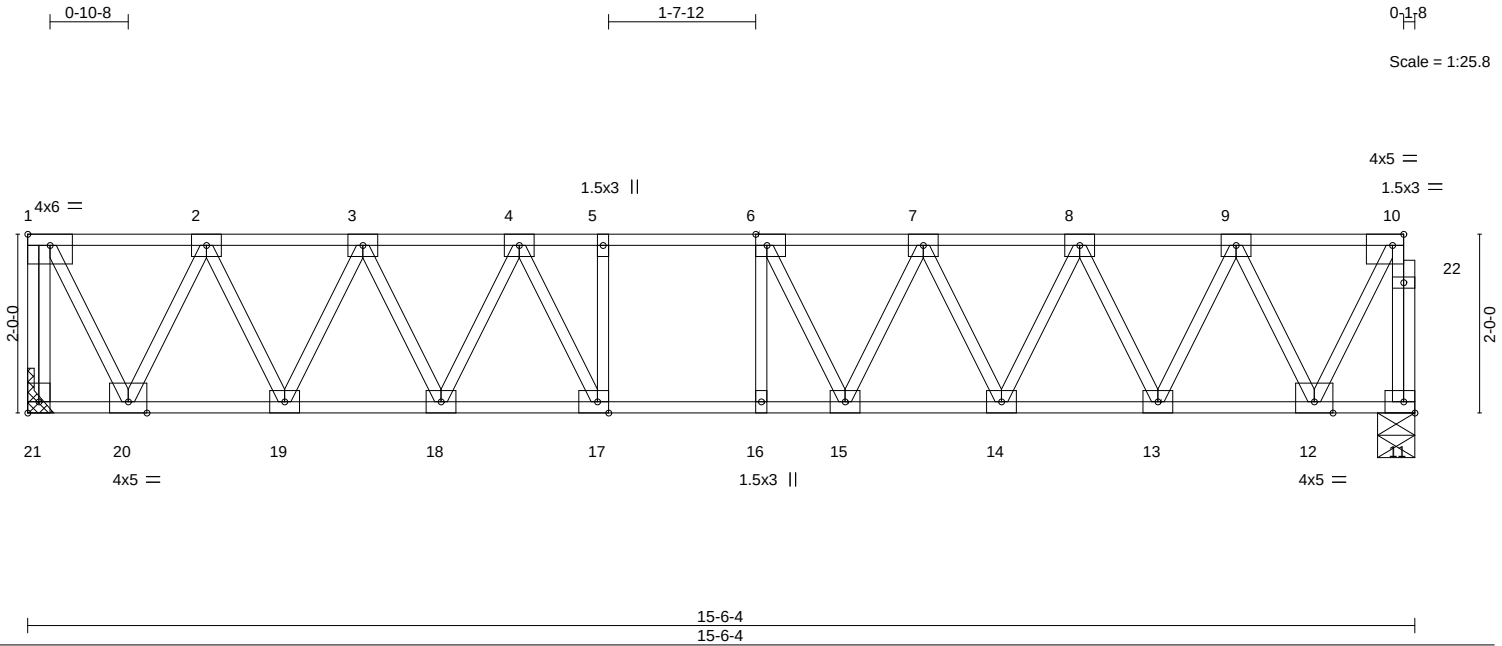

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [10:0-1-8,Edge], [17:0-1-8,Edge], [21:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.06	15-16	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.09	15-16	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	11	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 105 lb	FT = 20%F, 11%E

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

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) 21=Mechanical, 11=0-5-0
Max Grav 21=611(LC 1), 11=606(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-21=-607/0, 10-11=-603/0, 1-2=-294/0, 2-3=-732/0, 3-4=-1024/0, 4-5=-1230/0, 5-6=-1230/0, 6-7=-1195/0, 7-8=-1028/0, 8-9=-730/0, 9-10=-295/0
BOT CHORD 19-20=0/548, 18-19=0/908, 17-18=0/1140, 16-17=0/1230, 15-16=0/1230, 14-15=0/1145, 13-14=0/907, 12-13=0/547
WEBS 10-12=0/614, 1-20=0/625, 9-12=-597/0, 2-20=-600/0, 9-13=0/432, 2-19=0/435, 8-13=-418/0, 3-19=-417/0, 8-14=0/287, 3-18=0/273, 7-14=-277/0, 4-18=-277/0, 4-17=0/332

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758743
4371416	F22	FLOOR	5	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:36 2024 Page 1
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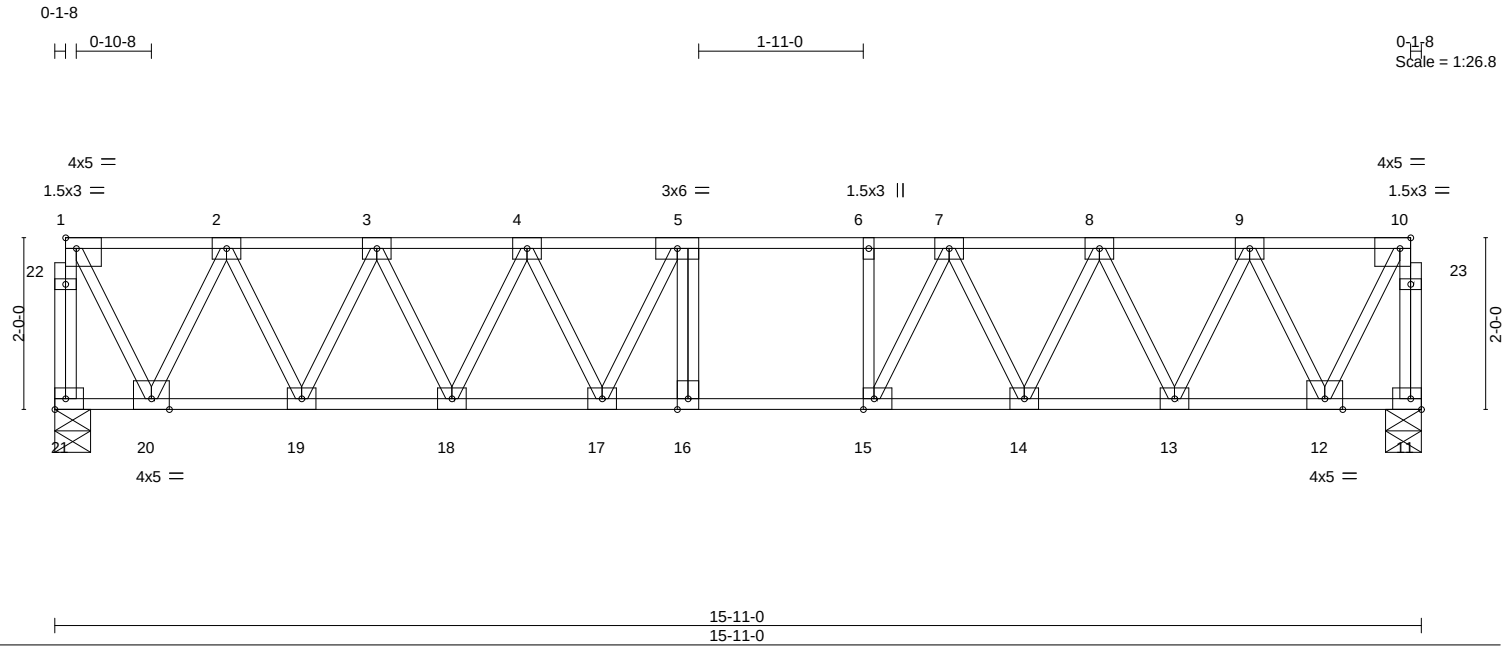

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [10:0-1-8,Edge], [15:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.08	16-17	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.11	16-17	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	11	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 108 lb	FT = 20%F, 11%E

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

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) 21=0-5-0, 11=0-5-0
Max Grav 21=622(LC 1), 11=622(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-21=-619/0, 10-11=-618/0, 1-2=-303/0, 2-3=-753/0, 3-4=-1066/0, 4-5=-1248/0, 5-6=-1292/0, 6-7=-1292/0, 7-8=-1061/0, 8-9=-755/0, 9-10=-303/0
BOT CHORD 19-20=0/563, 18-19=0/937, 17-18=0/1191, 16-17=0/1292, 15-16=0/1292, 14-15=0/1185, 13-14=0/939, 12-13=0/563
WEBS 10-12=0/631, 1-20=0/632, 9-12=-615/0, 2-20=-615/0, 9-13=0/454, 2-19=0/450, 8-13=-435/0, 3-19=-435/0, 8-14=0/288, 3-18=0/305, 7-14=-295/0, 4-18=-296/0, 7-15=0/378, 5-17=-250/60

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758744
4371416	F24	FLOOR	6	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:36 2024 Page 1
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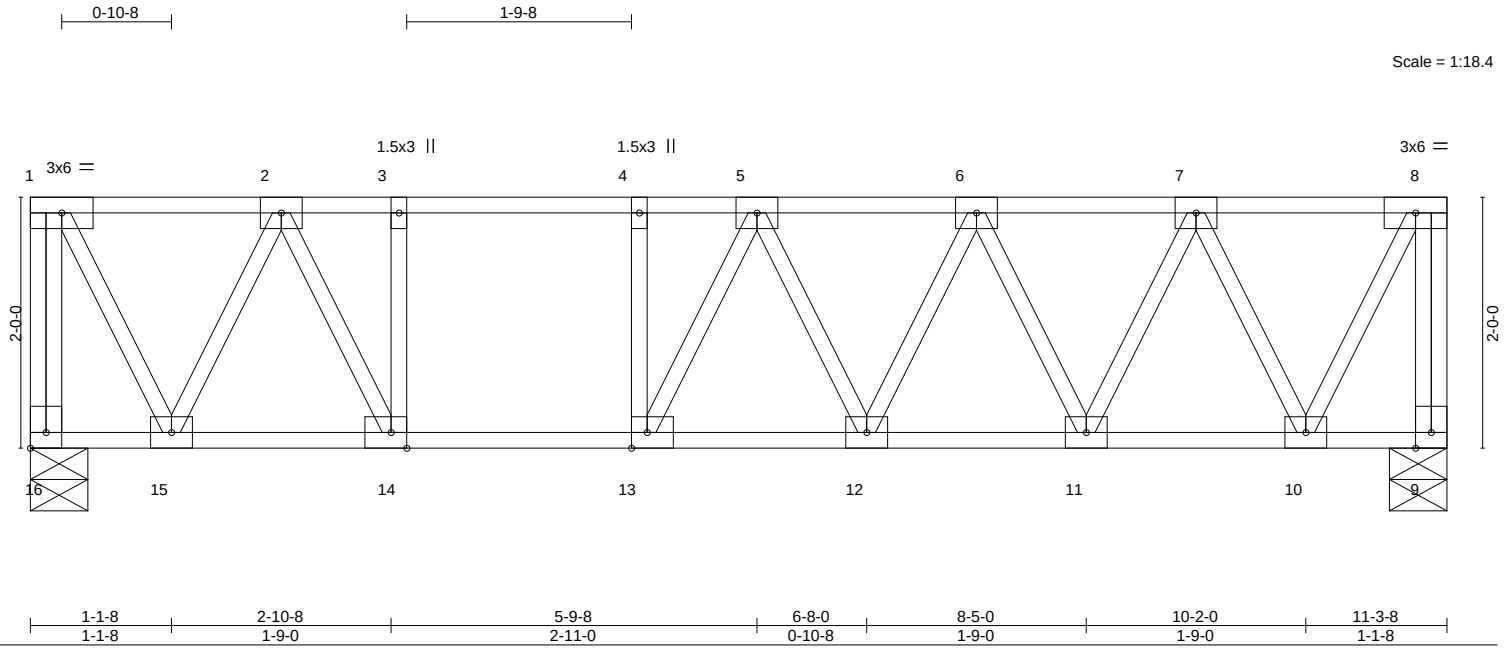

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [14:0-1-8,Edge], [16:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.07	12-13	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.56	Vert(CT)	-0.10	12-13	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	9	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 78 lb	FT = 20%F, 11%E

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

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) 16=0-5-8, 9=0-5-8
Max Grav 16=442(LC 1), 9=442(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-421/0, 8-9=-440/0, 2-3=-574/0, 3-4=-574/0, 4-5=-574/0, 5-6=-632/0, 6-7=-480/0
BOT CHORD 14-15=0/380, 13-14=0/574, 12-13=0/651, 11-12=0/583, 10-11=0/379
WEBS 8-10=0/436, 1-15=0/404, 7-10=-410/0, 2-15=-450/0, 2-14=0/468, 3-14=-291/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758745
4371416	F25	FLOOR	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:36 2024 Page 1
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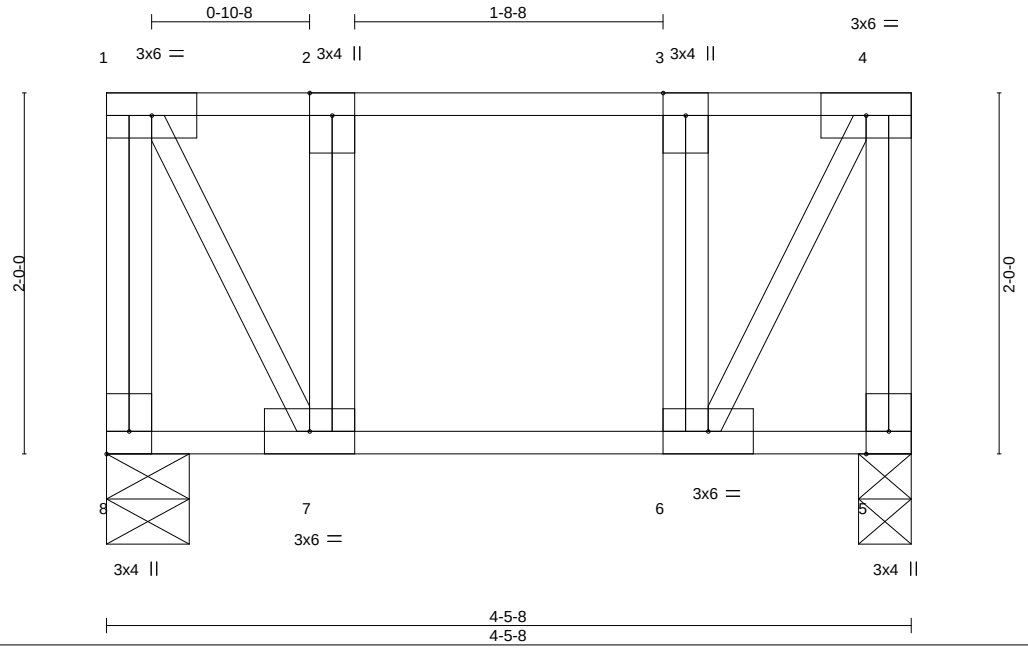

Plate Offsets (X,Y)-- [8:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.12	Vert(LL)	-0.00	7	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.05	Vert(CT)	-0.00	6	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 40 lb	FT = 20%F, 11%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-5-8, 5=0-3-8
Max Grav 8=168(LC 1), 5=168(LC 1)

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

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758746
4371416	F26	FLOOR	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:37 2024 Page 1
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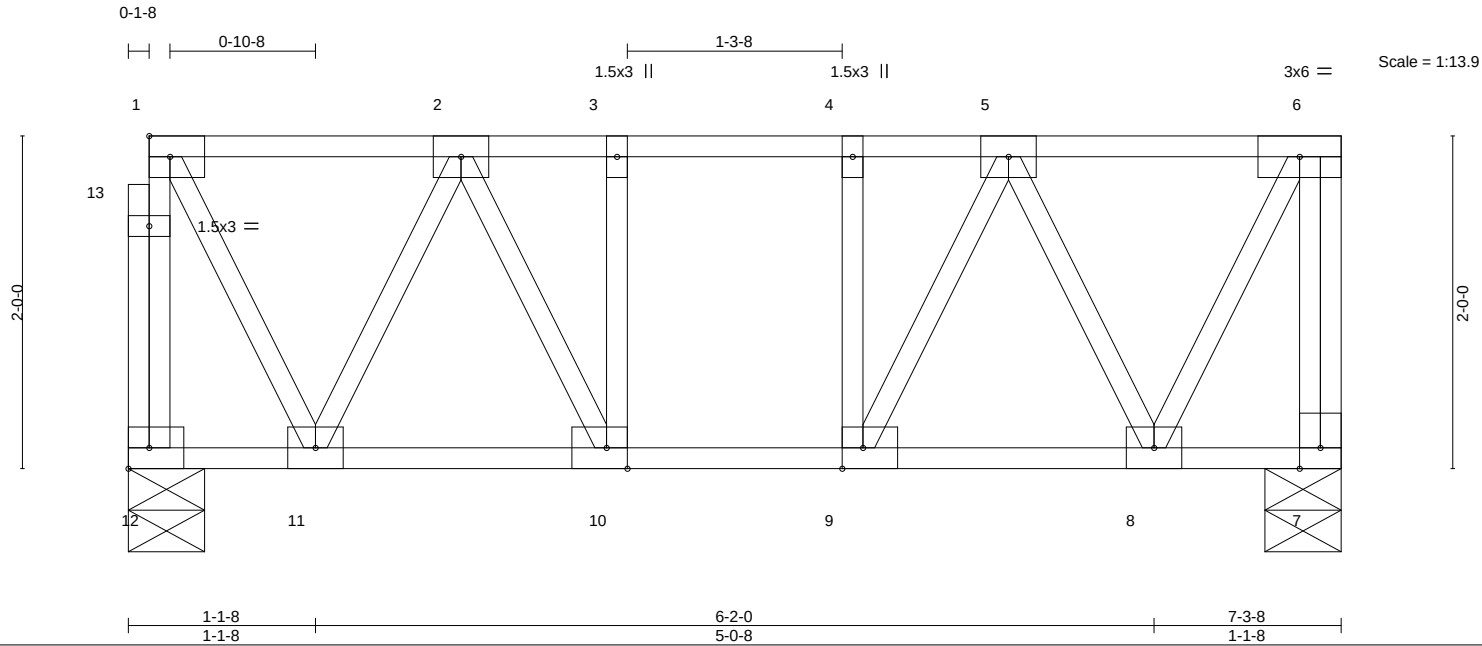

Plate Offsets (X,Y)-- [9:0-1-8,Edge], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.14	Vert(LL)	-0.01	10	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.11	Vert(CT)	-0.01	10	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 54 lb	FT = 20%F, 11%E

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

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) 12=0-5-8, 7=0-5-8
Max Grav 12=277(LC 1), 7=282(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-275/0, 6-7=-279/0, 2-3=-258/0, 3-4=-258/0, 4-5=-258/0
BOT CHORD 9-10=0/258
WEBS 6-8=0/252

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.

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December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758747
4371416	F27	FLOOR	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:37 2024 Page 1
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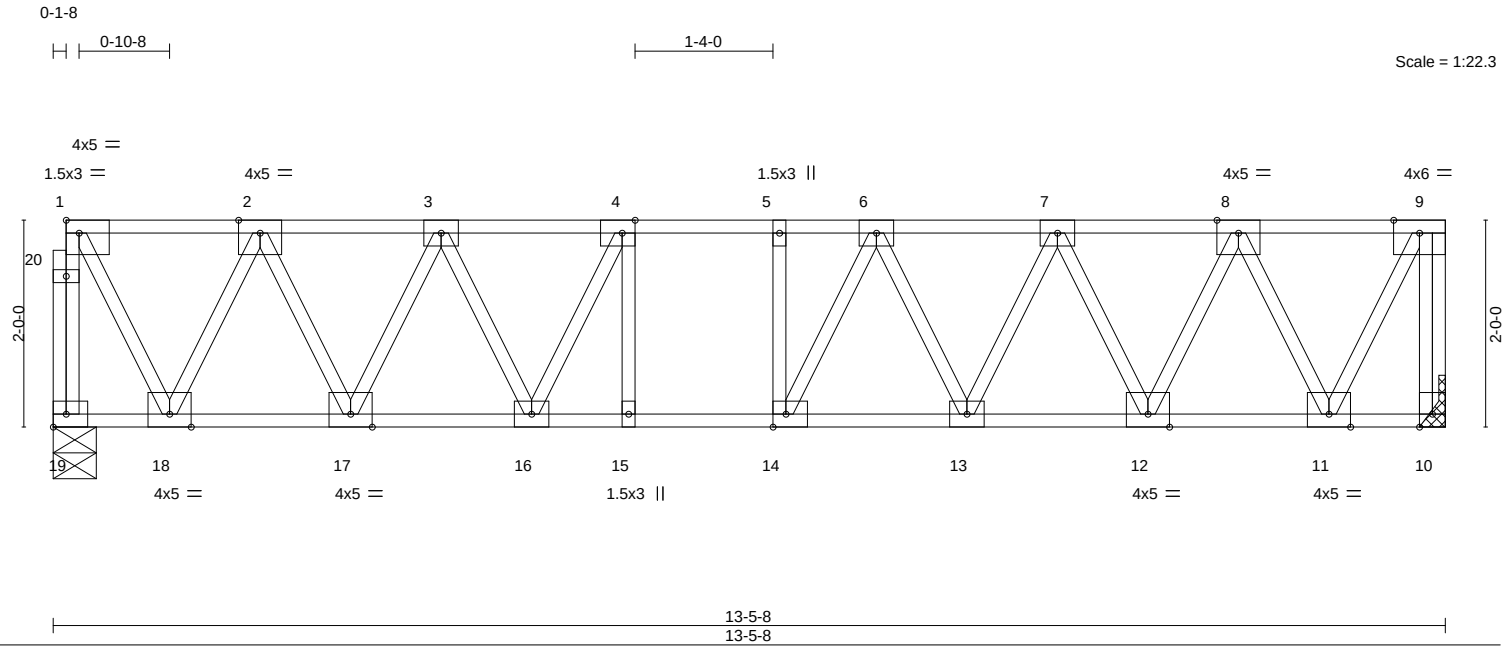

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [4:0-1-8,Edge], [14:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.06	13-14	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.61	Vert(CT)	-0.08	13-14	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.02	10	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 93 lb	FT = 20%F, 11%E

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

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) 19=0-5-0, 10=Mechanical
Max Grav 19=786(LC 1), 10=792(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-19=-781/0, 9-10=-788/0, 1-2=-376/0, 2-3=-914/0, 3-4=-1244/0, 4-5=-1381/0, 5-6=-1381/0, 6-7=-1246/0, 7-8=-914/0, 8-9=-376/0
BOT CHORD 17-18=0/698, 16-17=0/1121, 15-16=0/1381, 14-15=0/1381, 13-14=0/1355, 12-13=0/1124, 11-12=0/698
WEBS 9-11=0/799, 1-18=0/783, 8-11=-762/0, 2-18=-760/0, 8-12=0/512, 2-17=0/512, 7-12=-495/0, 3-17=-489/0, 7-13=0/289, 3-16=0/336, 6-13=-257/0, 4-16=-412/0, 6-14=-118/269

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758748
4371416	F28	FLOOR	9	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:38 2024 Page 1
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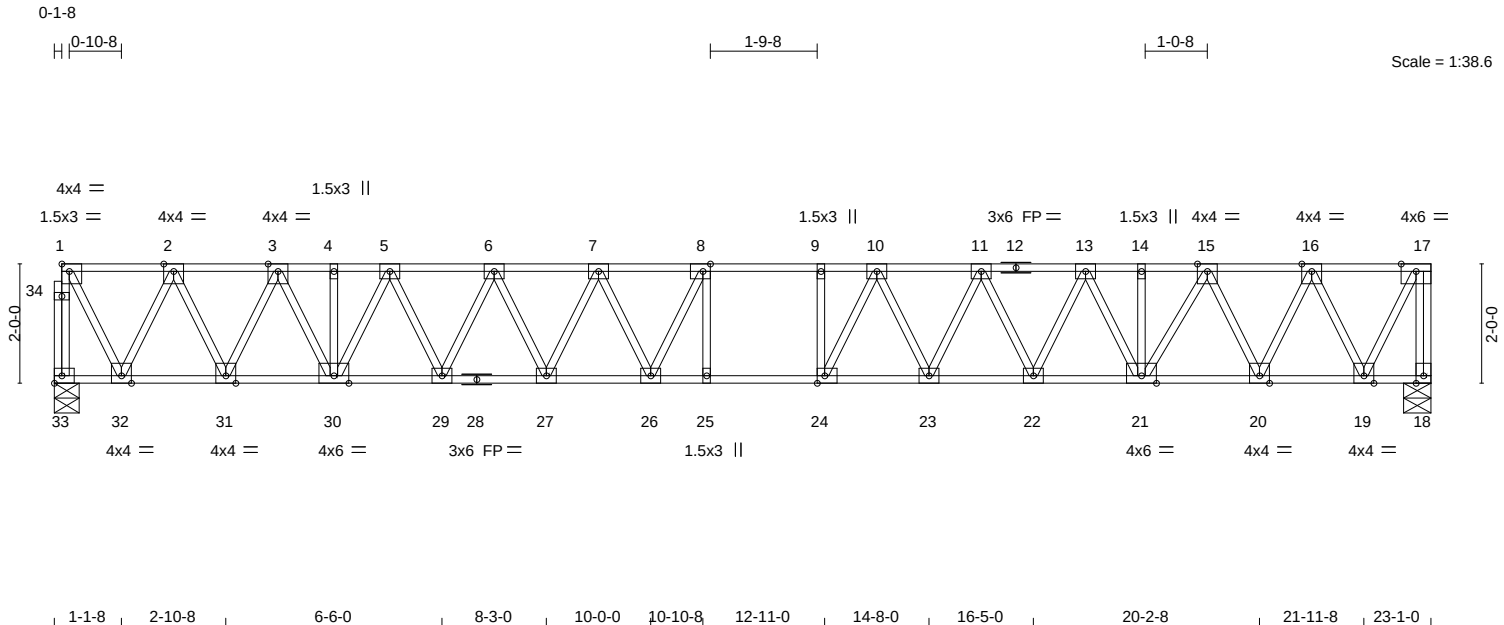

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [8:0-1-8,Edge], [24:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.53	Vert(LL)	-0.19	25	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.29	25	>960	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.06	18	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 156 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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) 33=0-5-0, 18=0-5-8
Max Grav 33=909(LC 1), 18=913(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-33=-905/0, 17-18=-909/0, 1-2=-456/0, 2-3=-1173/0, 3-4=-1777/0, 4-5=-1777/0, 5-6=-2230/0, 6-7=-2542/0, 7-8=-2720/0, 8-9=-2765/0, 9-10=-2765/0, 10-11=-2560/0, 11-13=-2266/0, 13-14=-1826/0, 14-15=-1826/0, 15-16=-1173/0, 16-17=-455/0
BOT CHORD 31-32=0/850, 30-31=0/1489, 29-30=0/2038, 27-29=0/2416, 26-27=0/2663, 25-26=0/2765, 24-25=0/2765, 23-24=0/2676, 22-23=0/2446, 21-22=0/2079, 20-21=0/1489, 19-20=0/850
WEBS 17-19=0/968, 1-32=0/952, 16-19=-934/0, 2-32=-931/0, 16-20=0/763, 2-31=0/763, 15-20=-747/0, 3-31=-749/0, 15-21=0/664, 3-30=0/643, 13-21=-566/0, 5-30=-584/0, 13-22=0/443, 5-29=0/454, 11-22=-426/0, 6-29=-440/0, 6-27=0/298, 7-27=-288/0, 7-26=-25/271, 8-26=-358/164, 9-24=-251/6, 11-23=0/278, 10-23=-335/0, 10-24=-97/441

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758749
4371416	F29	FLOOR	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:39 2024 Page 1
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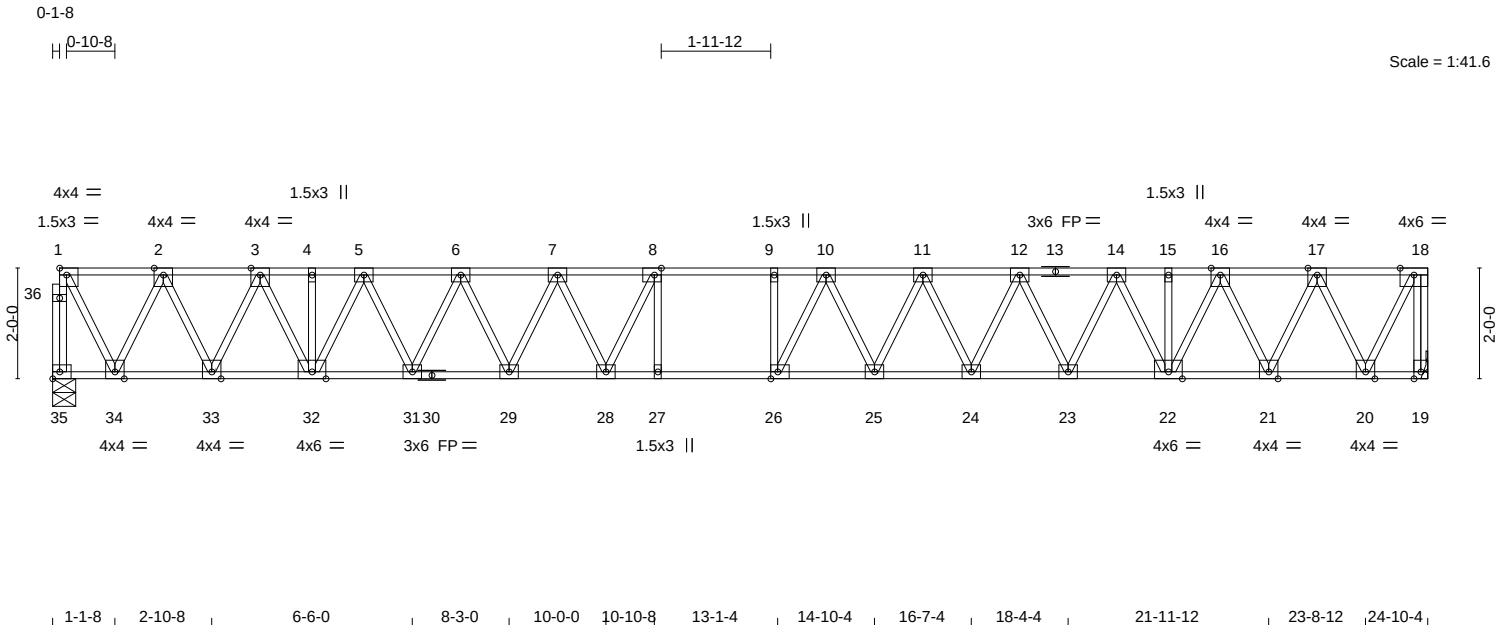

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [8:0-1-8,Edge], [26:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.54	Vert(LL)	-0.23	26	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.32	26	>914	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.06	19	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 167 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

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) 35=0-5-0, 19=Mechanical
Max Grav 35=898(LC 1), 19=902(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-35=-894/0, 18-19=-897/0, 1-2=-452/0, 2-3=-1170/0, 3-4=-1786/0, 4-5=-1786/0, 5-6=-2265/0, 6-7=-2610/0, 7-8=-2837/0, 8-9=-2942/0, 9-10=-2942/0, 10-11=-2838/0, 11-12=-2610/0, 12-14=-2265/0, 14-15=-1786/0, 15-16=-1786/0, 16-17=-1170/0, 17-18=-452/0
BOT CHORD 33-34=0/843, 32-33=0/1490, 31-32=0/2058, 29-31=0/2466, 28-29=0/2747, 27-28=0/2942, 26-27=0/2942, 25-26=0/2911, 24-25=0/2752, 23-24=0/2465, 22-23=0/2058, 21-22=0/1490, 20-21=0/844
WEBS 18-20=0/960, 1-34=0/945, 17-20=-927/0, 2-34=-925/0, 17-21=0/771, 2-33=0/772, 16-21=-756/0, 3-33=-757/0, 16-22=0/662, 3-32=0/662, 14-22=-608/0, 5-32=-607/0, 14-23=0/488, 5-31=0/489, 12-23=-474/0, 6-31=-477/0, 12-24=0/343, 6-29=0/341, 7-29=-324/0, 7-28=0/333, 8-28=-489/113, 11-24=-335/0, 10-25=-287/13, 10-26=-216/382

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

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:

December 9,2024

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758750
4371416	F30	FLOOR	11	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:39 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-0LzAj8HoGIE5Gs4MIUy7mqcbrcQg6Q5u4BmvdOyAnKw

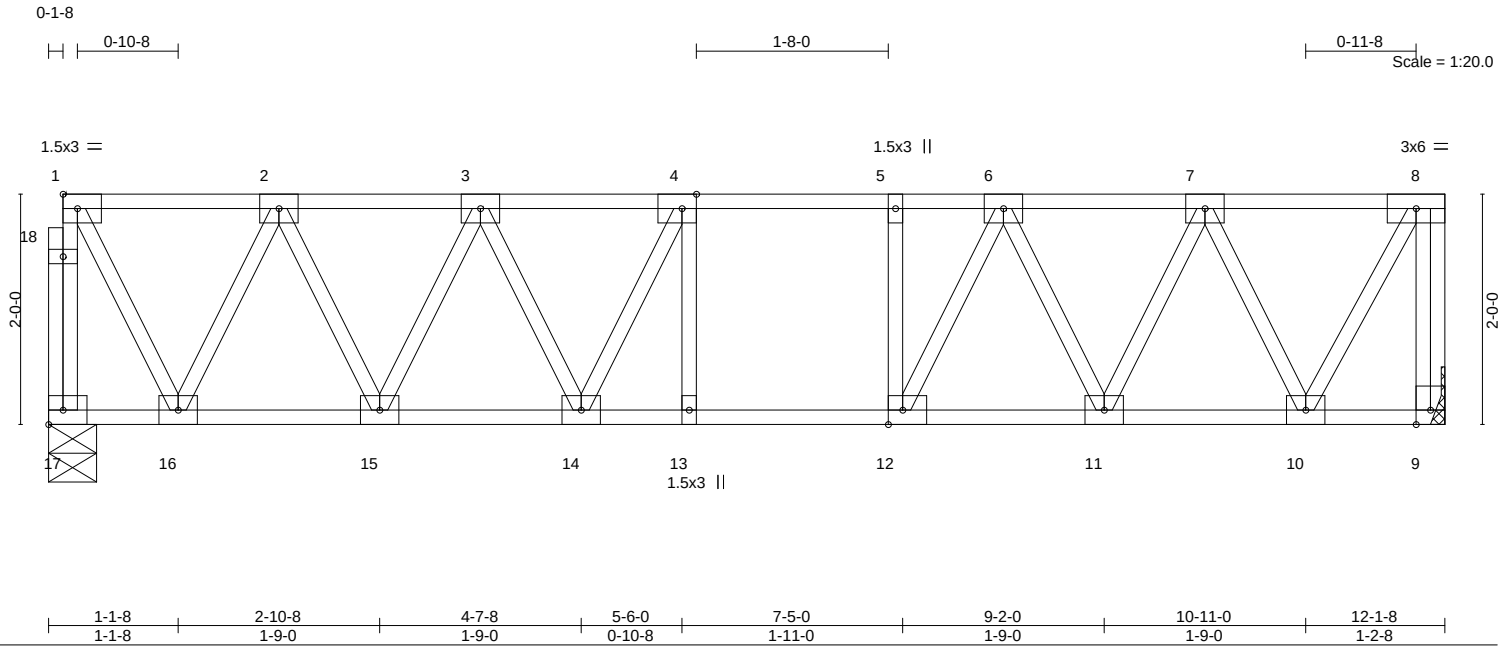

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.04	13	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.05	13	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	9	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 83 lb	FT = 20%F, 11%E

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

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) 17=0-5-0, 9=Mechanical
Max Grav 17=470(LC 1), 9=475(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-468/0, 8-9=-473/0, 2-3=-532/0, 3-4=-701/0, 4-5=-740/0, 5-6=-740/0, 6-7=-539/0
BOT CHORD 15-16=0/411, 14-15=0/648, 13-14=0/740, 12-13=0/740, 11-12=0/651, 10-11=0/428
WEBS 8-10=0/480, 1-16=0/462, 7-10=-444/0, 2-16=-446/0, 7-11=0/263, 2-15=0/286, 6-11=-264/0, 3-15=-275/0, 6-12=0/285

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758751
4371416	HJ04	Diagonal Hip Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:40 2024 Page 1
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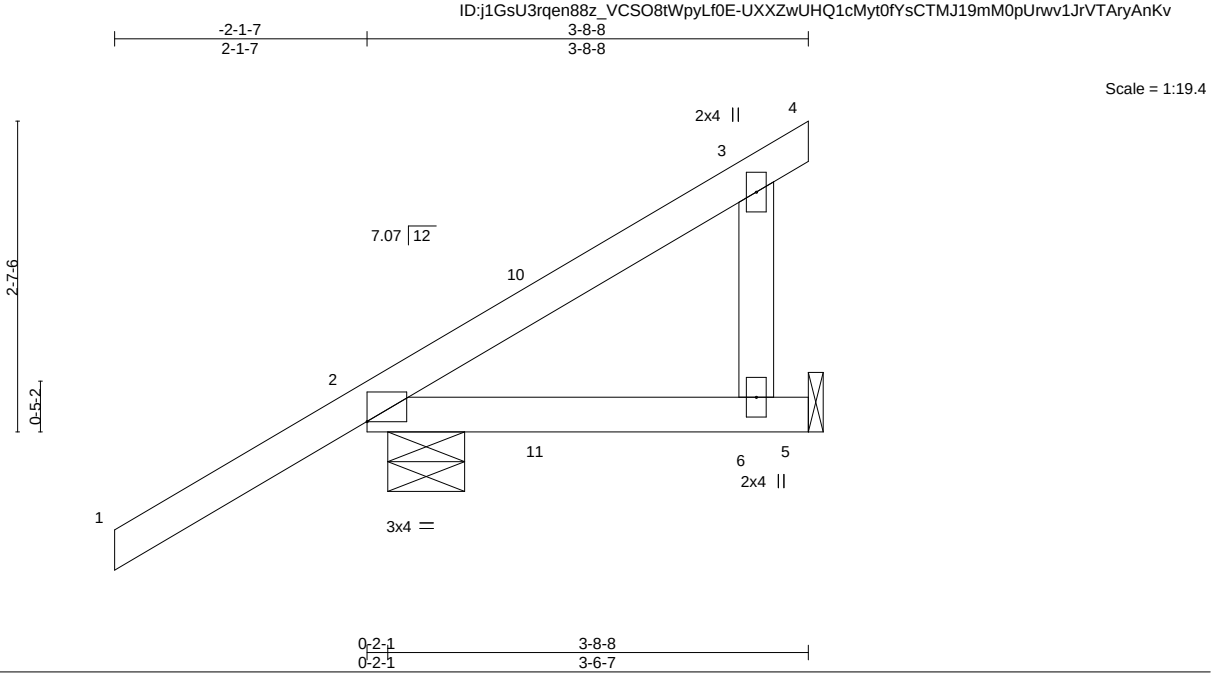

Plate Offsets (X,Y)-- [2:0-0-0,0-0-0]

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	0.31	Vert(LL)	-0.03	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.04	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	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
WEBS 2x4 SP No.3

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

REACTIONS. (size) 2=0-7-12, 5=Mechanical
Max Horz 2=180(LC 8)
Max Uplift 2=-108(LC 8), 5=-50(LC 8)
Max Grav 2=283(LC 1), 5=128(LC 26)

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=35ft; Cat. II; Exp C; 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 108 lb uplift at joint 2 and 50 lb uplift at joint 5.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 103 lb down and 61 lb up at 1-6-1, and 103 lb down and 61 lb up at 1-6-1 on top chord, and 41 lb down and 49 lb up at 1-6-1, and 41 lb down and 49 lb up at 1-6-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-54, 5-7=-20

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December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758752
4371416	HJ10	Diagonal Hip Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:40 2024 Page 1
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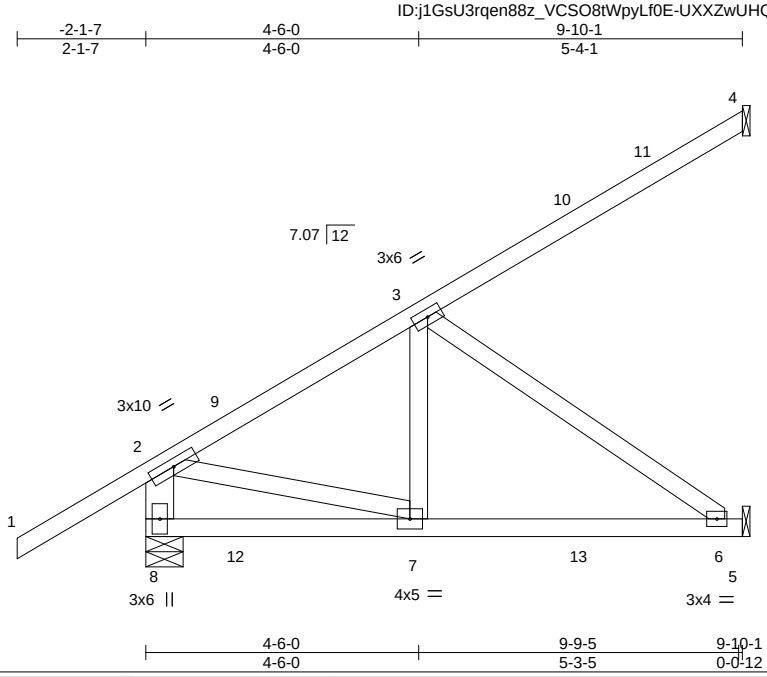

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.91	Vert(LL)	0.10	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.11	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.41	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 57 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-8: 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 6-0-0 oc bracing.

REACTIONS. (size) 8=0-7-6, 4=Mechanical, 5=Mechanical
Max Horz 8=347(LC 8)
Max Uplift 8=-468(LC 8), 4=-206(LC 8), 5=-414(LC 8)
Max Grav 8=541(LC 35), 4=181(LC 35), 5=379(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-534/444, 2-3=-651/510
BOT CHORD 7-8=-277/107, 6-7=-573/456
WEBS 2-7=-515/554, 3-6=-558/701

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left 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 468 lb uplift at joint 8, 206 lb uplift at joint 4 and 414 lb uplift at joint 5.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 107 lb down and 124 lb up at 1-6-1, 107 lb down and 124 lb up at 1-6-1, 137 lb down and 151 lb up at 4-4-0, 137 lb down and 151 lb up at 4-4-0, and 183 lb down and 225 lb up at 7-1-15, and 183 lb down and 225 lb up at 7-1-15 on top chord, and 20 lb down and 68 lb up at 1-6-1, 20 lb down and 68 lb up at 1-6-1, 37 lb down and 35 lb up at 4-4-0, 37 lb down and 35 lb up at 4-4-0, and 65 lb down and 64 lb up at 7-1-15, and 65 lb down and 64 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 7=6(F=3, B=3) 9=62(F=31, B=31) 10=-67(F=-34, B=-34) 12=61(F=30, B=30) 13=-38(F=-19, B=-19)

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758753
4371416	HJ10A	Diagonal Hip Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:41 2024 Page 1
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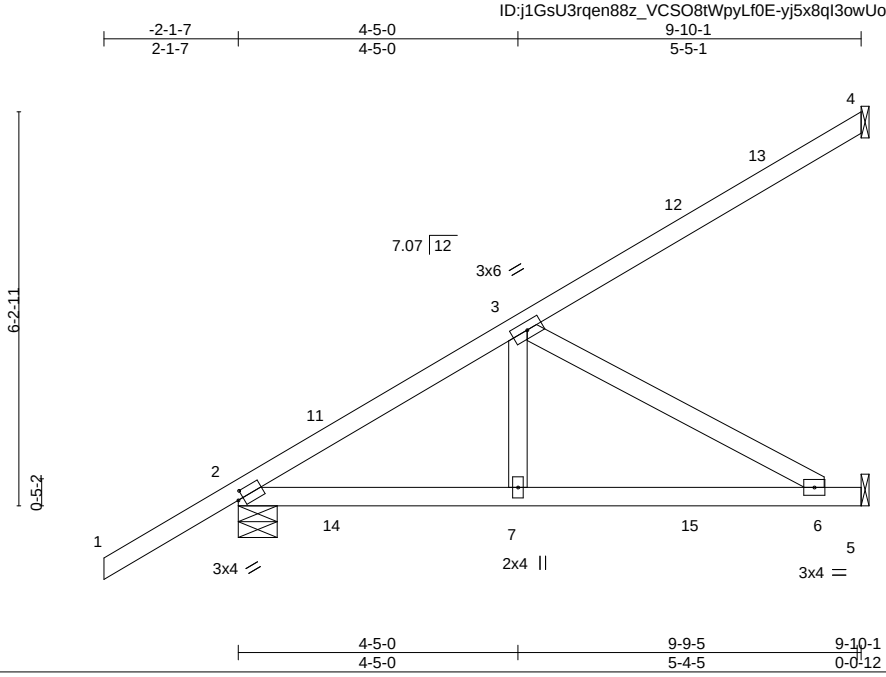

Plate Offsets (X,Y)-- [2:0-1-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.94	Vert(LL)	0.12	6-7	>975	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.14	6-7	>811	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.39	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 47 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 4-9-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-10-9 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-7-6, 5=Mechanical
Max Horz 2=368(LC 8)
Max Uplift 4=-212(LC 8), 2=-248(LC 8), 5=-258(LC 8)
Max Grav 4=184(LC 35), 2=526(LC 1), 5=356(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-796/455
BOT CHORD 2-7=-498/559, 6-7=-498/559
WEBS 3-7=-41/305, 3-6=-641/571

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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 212 lb uplift at joint 4, 248 lb uplift at joint 2 and 258 lb uplift at joint 5.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 103 lb down and 61 lb up at 1-6-1, 103 lb down and 61 lb up at 1-6-1, 131 lb down and 132 lb up at 4-4-0, 131 lb down and 132 lb up at 4-4-0, and 173 lb down and 218 lb up at 7-1-15, and 173 lb down and 218 lb up at 7-1-15 on top chord, and 41 lb down and 49 lb up at 1-6-1, 41 lb down and 49 lb up at 1-6-1, 32 lb down and 10 lb up at 4-4-0, 32 lb down and 10 lb up at 4-4-0, and 56 lb down and 31 lb up at 7-1-15, and 56 lb down and 31 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-3(F=-2, B=-2) 12=-72(F=-36, B=-36) 15=-59(F=-30, B=-30)

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758754
4371416	HJ10P	Diagonal Hip Girder	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:41 2024 Page 1
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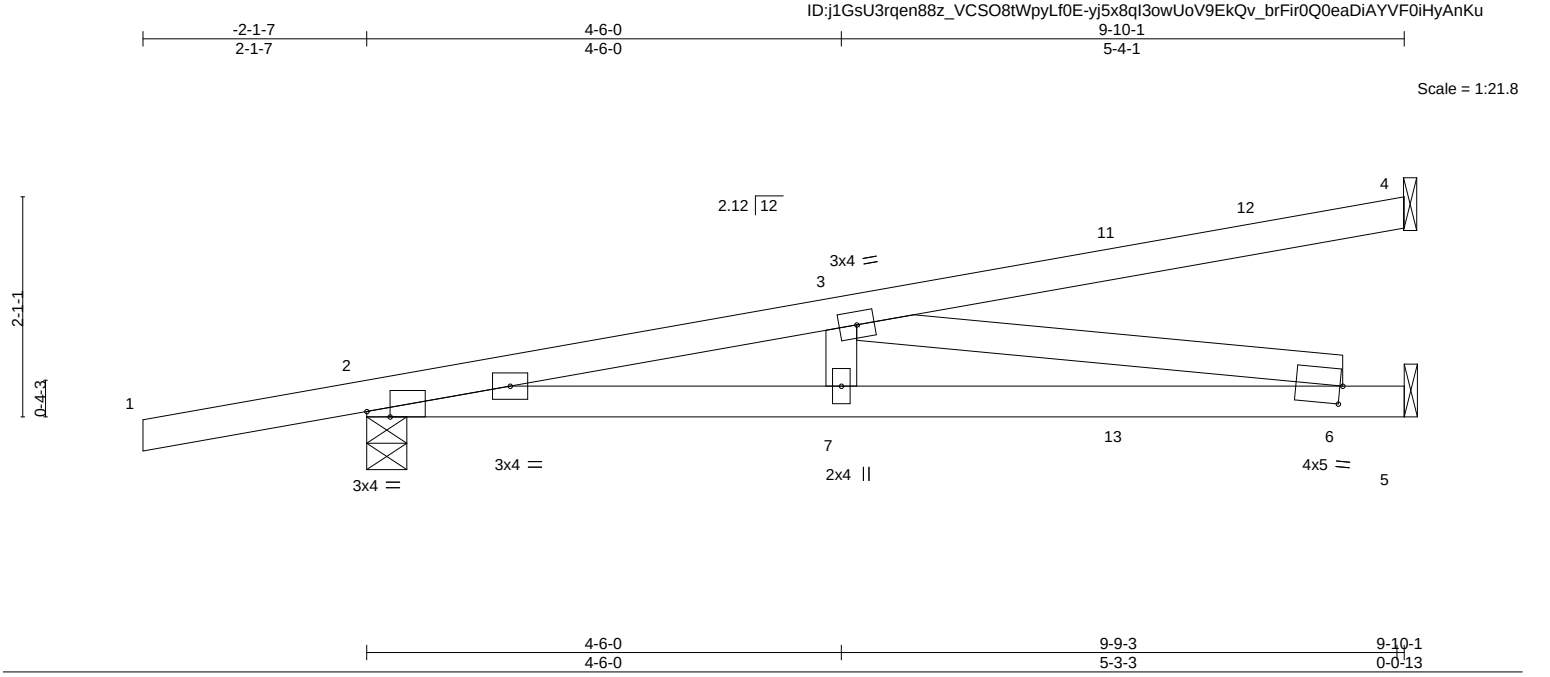

Plate Offsets (X,Y)-- [2:0-2-11,Edge], [6:0-0-5,0-2-1]

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	0.63	Vert(LL)	0.22	6-7	>522	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.19	6-7	>615	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.67	Horz(CT)	-0.02	5	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 4-10-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-6-9 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=120(LC 25)
Max Uplift 4=-133(LC 8), 2=-527(LC 4), 5=-283(LC 4)
Max Grav 4=158(LC 1), 2=531(LC 1), 5=294(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1388/1230
BOT CHORD 2-7=-1276/1357, 6-7=-1276/1357
WEBS 3-7=-173/276, 3-6=-1378/1296

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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 133 lb uplift at joint 4, 527 lb uplift at joint 2 and 283 lb uplift at joint 5.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 29 lb down and 59 lb up at 4-4-0, 29 lb down and 59 lb up at 4-4-0, and 52 lb down and 113 lb up at 7-1-15, and 52 lb down and 113 lb up at 7-1-15 on top chord, and 71 lb down and 22 lb up at 1-6-1, 71 lb down and 22 lb up at 1-6-1, 19 lb down and 42 lb up at 4-4-0, 19 lb down and 42 lb up at 4-4-0, and 41 lb down and 76 lb up at 7-1-15, and 41 lb down and 76 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 3=-0(F=-0, B=-0) 7=-13(F=-7, B=-7) 11=-68(F=-34, B=-34) 13=-63(F=-32, B=-32)

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758755
4371416	HJ13	Roof Special Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:42 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-QwfJLAJhZDcf7JpwzcWqOSE0TqRCJcyKn9_ZEjyAnKt

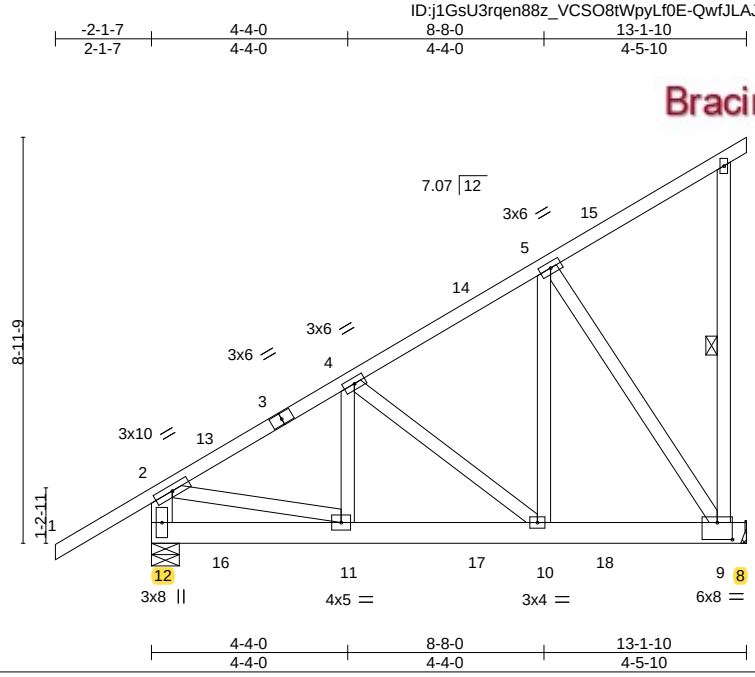

Plate Offsets (X,Y)-- [9:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	0.08	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	0.07	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.93	Horz(CT)	-0.01	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 107 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-9

REACTIONS. (size) 12=0-7-6, 8=Mechanical
Max Horz 12=425(LC 28)
Max Uplift 12=-724(LC 8), 8=-1546(LC 8)
Max Grav 12=805(LC 37), 8=1535(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-972/836, 4-5=-751/690, 6-9=-258/254, 2-12=-749/659
BOT CHORD 11-12=-432/186, 10-11=-887/727, 9-10=-621/554
WEBS 4-10=-220/338, 5-10=-757/729, 5-9=-982/1102, 2-11=-657/709

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left 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 724 lb uplift at joint 12 and 1546 lb uplift at joint 8.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 107 lb down and 124 lb up at 1-6-1, 107 lb down and 124 lb up at 1-6-1, 137 lb down and 151 lb up at 4-4-0, 137 lb down and 151 lb up at 4-4-0, 183 lb down and 225 lb up at 7-1-15, 183 lb down and 225 lb up at 7-1-15, 113 lb down and 139 lb up at 9-11-14, 113 lb down and 139 lb up at 9-11-14, and 113 lb down and 131 lb up at 12-9-13, and 113 lb down and 131 lb up at 12-9-13 on top chord, and 20 lb down and 68 lb up at 1-6-1, 20 lb down and 68 lb up at 1-6-1, 37 lb down and 35 lb up at 4-4-0, 37 lb down and 35 lb up at 4-4-0, 65 lb down and 64 lb up at 7-1-15, 65 lb down and 64 lb up at 7-1-15, 171 lb down and 212 lb up at 9-11-14, 171 lb down and 212 lb up at 9-11-14, and 236 lb down and 230 lb up at 13-0-14, and 236 lb down and 230 lb up at 13-0-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

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Date:

December 9,2024

Continued on page 2

MiTek®
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Chesterfield, MO 63017
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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-54, 2-6=-54, 6-7=-54, 8-12=-20

Concentrated Loads (lb)

Vert: 6=-108(F=-54, B=-54) 8=-391(F=-196, B=-196) 11=6(F=3, B=3) 13=62(F=31, B=31) 14=-67(F=-34, B=-34) 15=-7(F=-4, B=-4) 16=61(F=30, B=30) 17=-38(F=-19, B=-19) 18=-256(F=-128, B=-128)

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758756
4371416	KW1	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:43 2024 Page 1
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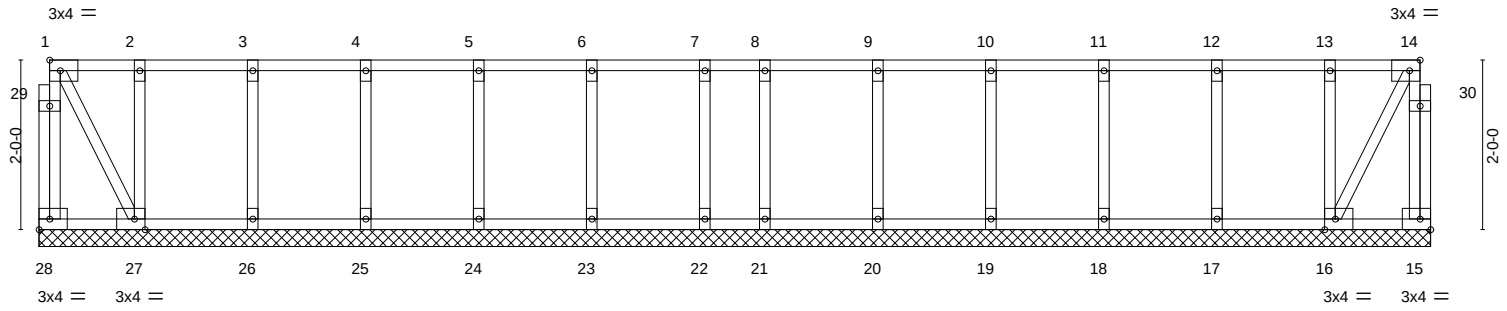

1-2-4	2-6-4	3-10-4	5-2-4	6-6-4	7-10-4	8-6-12	9-10-12	11-2-12	12-6-12	13-10-12	15-2-12	16-5-0
1-2-4	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-8-8	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-2-4

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [16:0-1-8,Edge], [27:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	16	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 95 lb	FT = 20%F, 11%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 27-28,15-16.

REACTIONS. All bearings 16-5-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 28, 15, 27, 16, 17, 18, 19, 20, 21, 26, 25, 24, 23, 22

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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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:

December 9,2024

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758757
4371416	KW3	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:45 2024 Page 1
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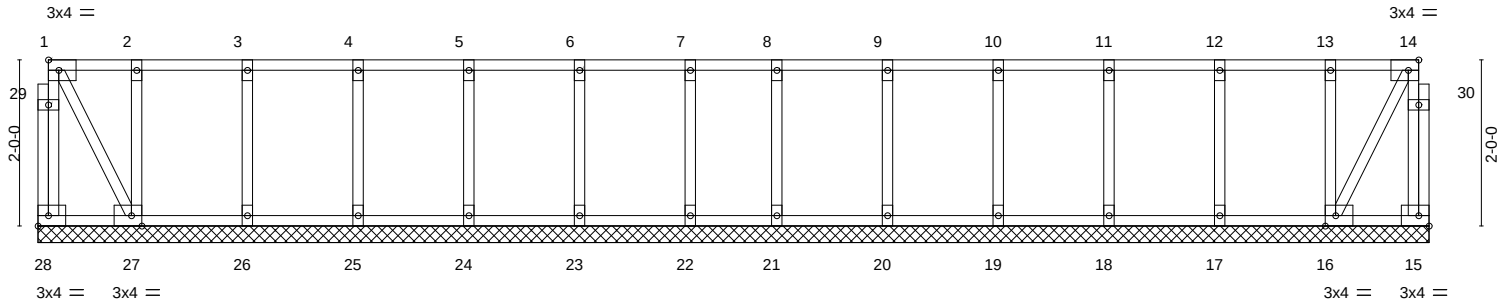

1-2-4	2-6-4	3-10-4	5-2-4	6-6-4	7-10-4	8-10-12	10-2-12	11-6-12	12-10-12	14-2-12	15-6-12	16-9-0
1-2-4	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-0-8	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-2-4

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [16:0-1-8,Edge], [27:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	16	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 96 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 27-28,15-16.

REACTIONS. All bearings 16-9-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 28, 15, 27, 16, 17, 18, 19, 20, 21, 26, 25, 24, 23, 22

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758758
4371416	KW4	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:46 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-JhuqBXMBdS75bx7iCSamYIPrnRviFe1vinynNUyAnKp

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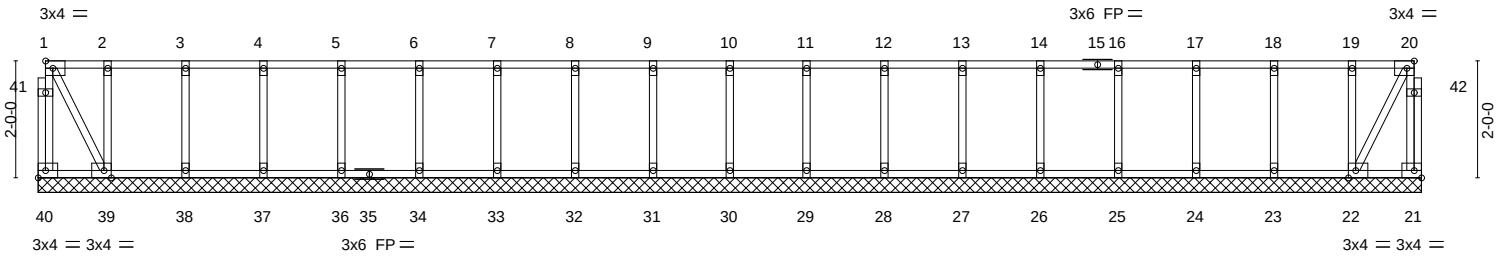

1-2-4	2-6-4	3-10-4	5-2-4	6-6-4	7-10-4	9-2-4	10-6-4	11-10-0	13-1-12	14-5-12	15-9-12	17-1-12	18-5-12	19-9-12	21-1-12	22-5-12	23-8-0
1-2-4	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-3-12	1-3-12	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-2-4

Plate Offsets (X,Y)-- [20:0-1-8,Edge], [22:0-1-8,Edge], [39:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	22	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 130 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 39-40,21-22.

REACTIONS. All bearings 23-8-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 40, 21, 39, 22, 30, 23, 24, 25, 26, 27, 28, 29, 38, 37, 36, 34, 33, 32, 31

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

MiTek®
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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758759
4371416	KW5	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:46 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-JhuqBXMBdS75bx7iCSamYIPrkRviFe0vinynNUyAnKp

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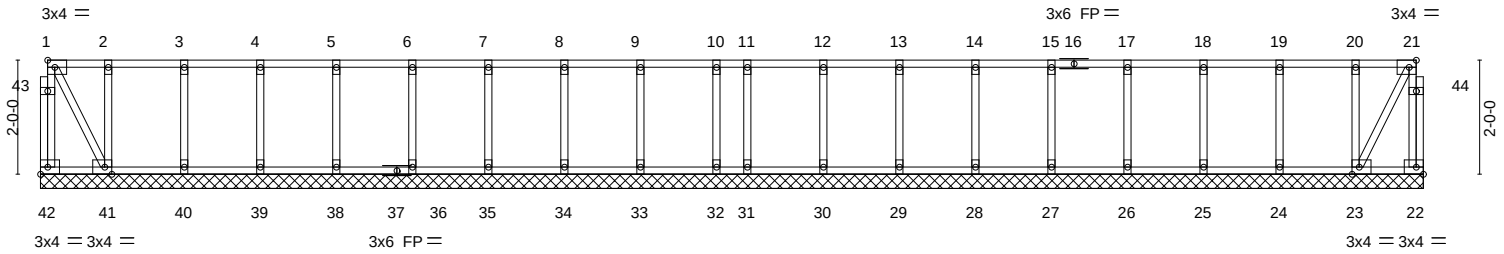

1-2-4	2-6-4	3-10-4	5-2-4	6-6-4	7-10-4	9-2-4	10-6-4	11-10-4	12-4-12	13-8-12	15-0-12	16-4-12	17-8-12	19-0-12	20-4-12	21-8-12	23-0-12	24-3-0
1-2-4	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-6-8	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-2-4

Plate Offsets (X,Y)-- [21:0-1-8,Edge], [23:0-1-8,Edge], [41:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	23	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 134 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 41-42,22-23.

REACTIONS. All bearings 24-3-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 42, 22, 41, 23, 24, 25, 26, 27, 28, 29, 30, 31, 40, 39, 38, 36, 35, 34, 33, 32

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Date:

December 9,2024

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758760
4371416	KW6	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:47 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-ntSCOtNpOmFyD4iumA5?5Wy0RrFw_5H3wRiKwxyAnKo

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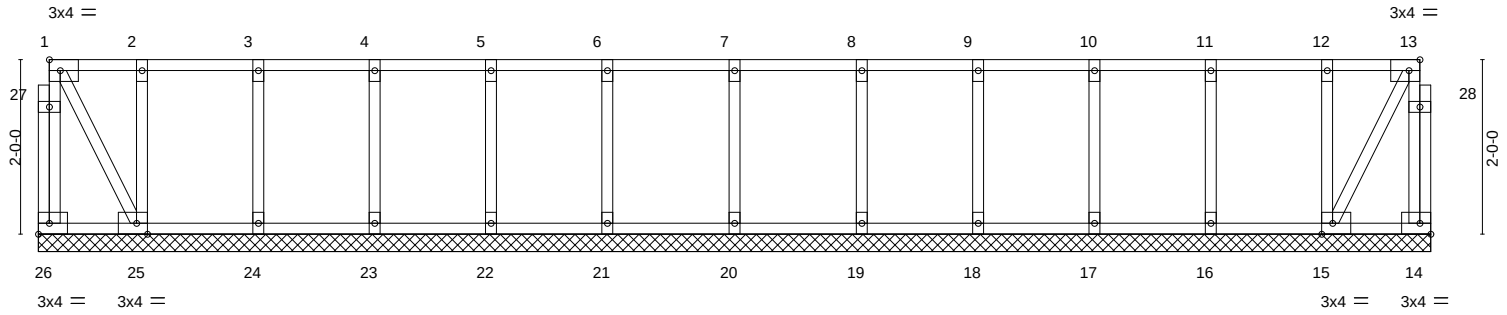
Scale = 1:26.4



1-2-4	2-6-4	3-10-4	5-2-4	6-6-4	7-11-12	9-5-4	10-9-4	12-1-4	13-5-4	14-9-4	15-11-8
1-2-4	1-4-0	1-4-0	1-4-0	1-4-0	1-5-8	1-5-8	1-4-0	1-4-0	1-4-0	1-4-0	1-2-4

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [15:0-1-8,Edge], [25:0-1-8,Edge]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	15	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 91 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 25-26,14-15.

REACTIONS. All bearings 15-11-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 15, 20, 16, 17, 18, 19, 24, 23, 22, 21

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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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:

December 9,2024

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758761
4371416	KW7	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:47 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-ntSCOtNpOmFyD4iumA5?5Wy0XrFx_5H3wRiKwxyAnKo

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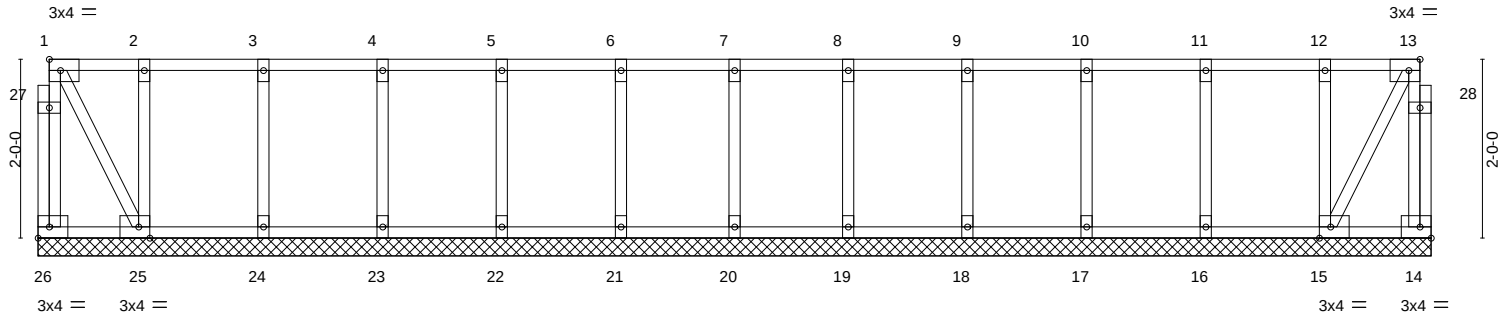

1-2-4	2-6-4	3-10-4	5-2-4	6-6-4	7-9-8	9-0-12	10-4-12	11-8-12	13-0-12	14-4-12	15-7-0
1-2-4	1-4-0	1-4-0	1-4-0	1-4-0	1-3-4	1-3-4	1-4-0	1-4-0	1-4-0	1-4-0	1-2-4

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [15:0-1-8,Edge], [25:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	15	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 90 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 25-26,14-15.

REACTIONS. All bearings 15-7-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 15, 20, 16, 17, 18, 19, 24, 23, 22, 21

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758762
4371416	KW9	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:48 2024 Page 1
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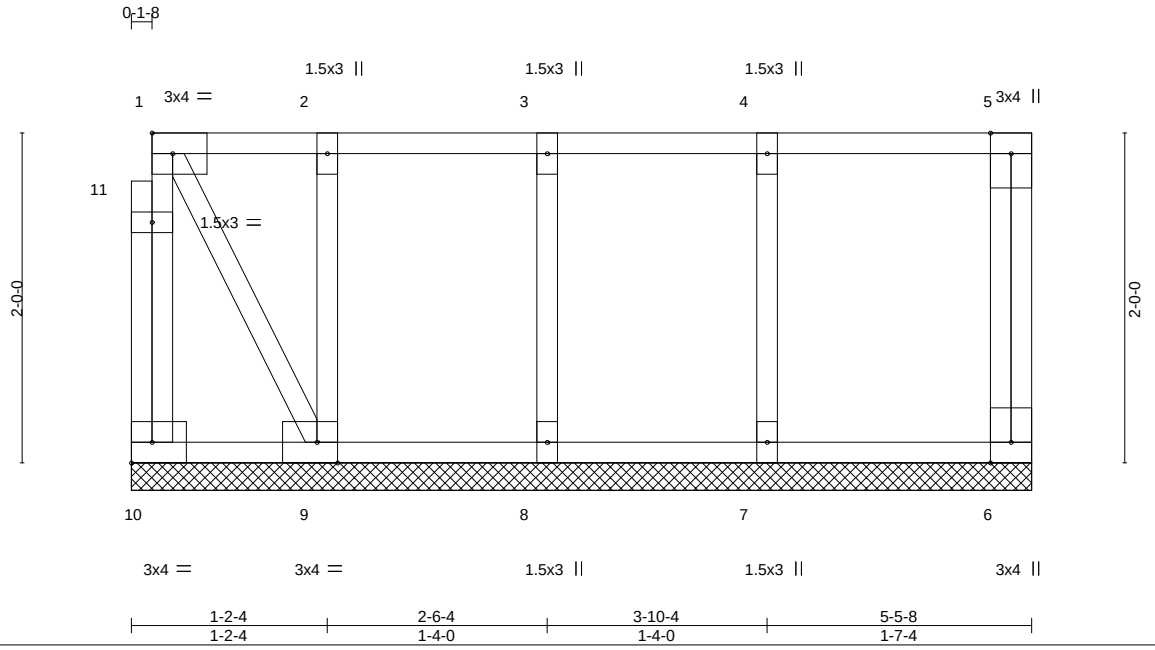

Plate Offsets (X,Y)-- [9:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-P							Weight: 37 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

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

REACTIONS. All bearings 5-5-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 10, 6, 9, 8, 7

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

NOTES-
1) Gable requires continuous bottom chord bearing.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

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Date:

December 9,2024

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758763
4371416	KW10	FLOOR	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:43 2024 Page 1
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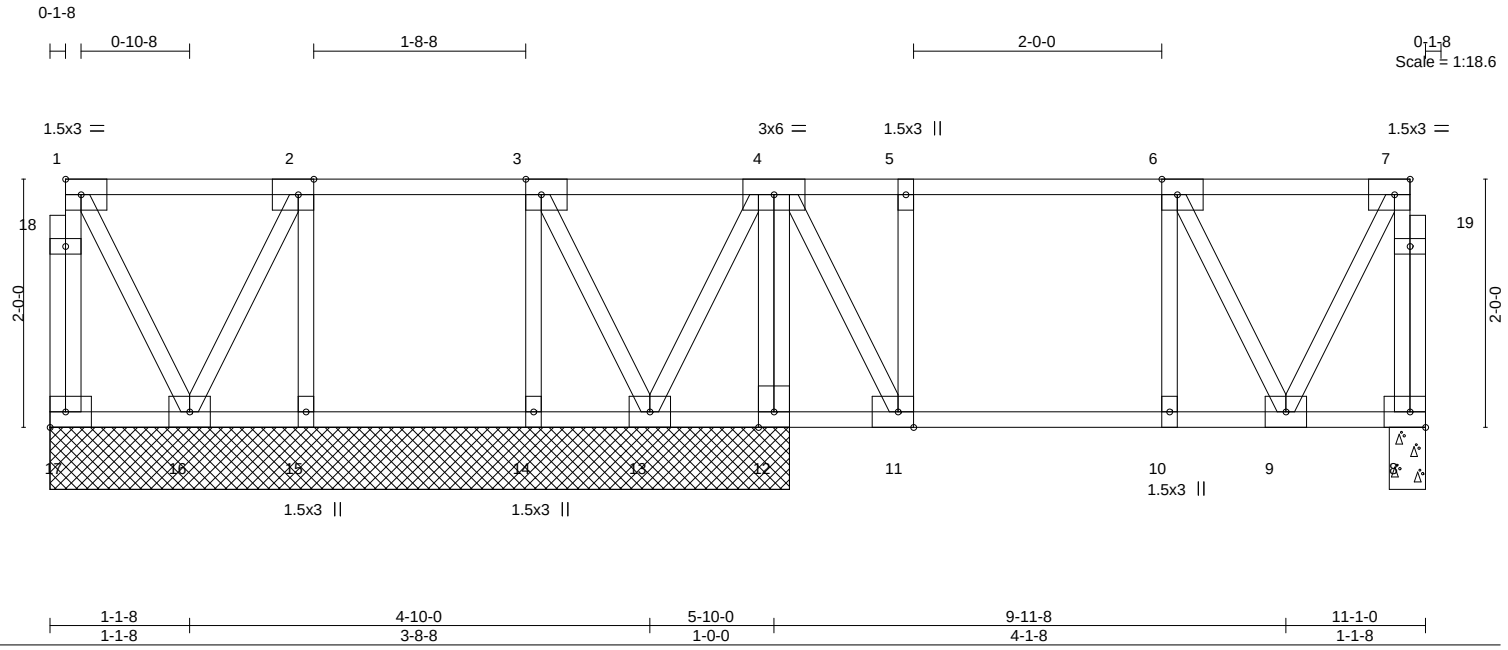

Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge], [6:0-1-8,Edge], [7:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.15	Vert(LL)	-0.00	10	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.08	Vert(CT)	-0.01	10	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 78 lb	FT = 20%F, 11%E

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

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

REACTIONS. All bearings 5-11-8 except (jt=length) 8=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 17, 8, 12, 16, 13, 15, 14

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

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.

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

December 9,2024

MiTek®
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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758764
4371416	KW12	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:44 2024 Page 1
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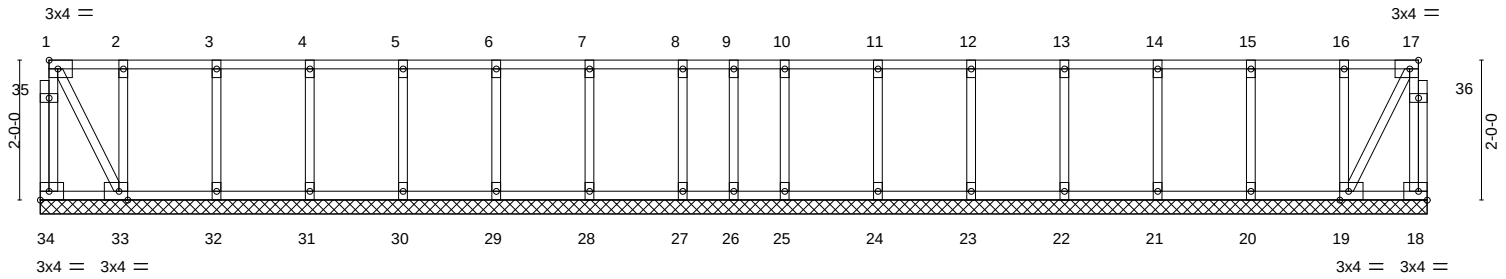
Scale = 1:32.9



1-2-4	2-6-4	3-10-4	5-2-4	6-6-4	7-10-4	9-2-4	9-11-0	10-7-12	11-11-12	13-3-12	14-7-12	15-11-12	17-3-12	18-7-12	19-10-0
1-2-4	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-8-12	0-8-12	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-2-4

Plate Offsets (X,Y)-- [17:0-1-8,Edge], [19:0-1-8,Edge], [33:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	19	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 113 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 33-34,18-19.

REACTIONS. All bearings 19-10-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 34, 18, 33, 19, 26, 20, 21, 22, 23, 24, 25, 32, 31, 30, 29, 28, 27

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758765
4371416	KW13	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:44 2024 Page 1
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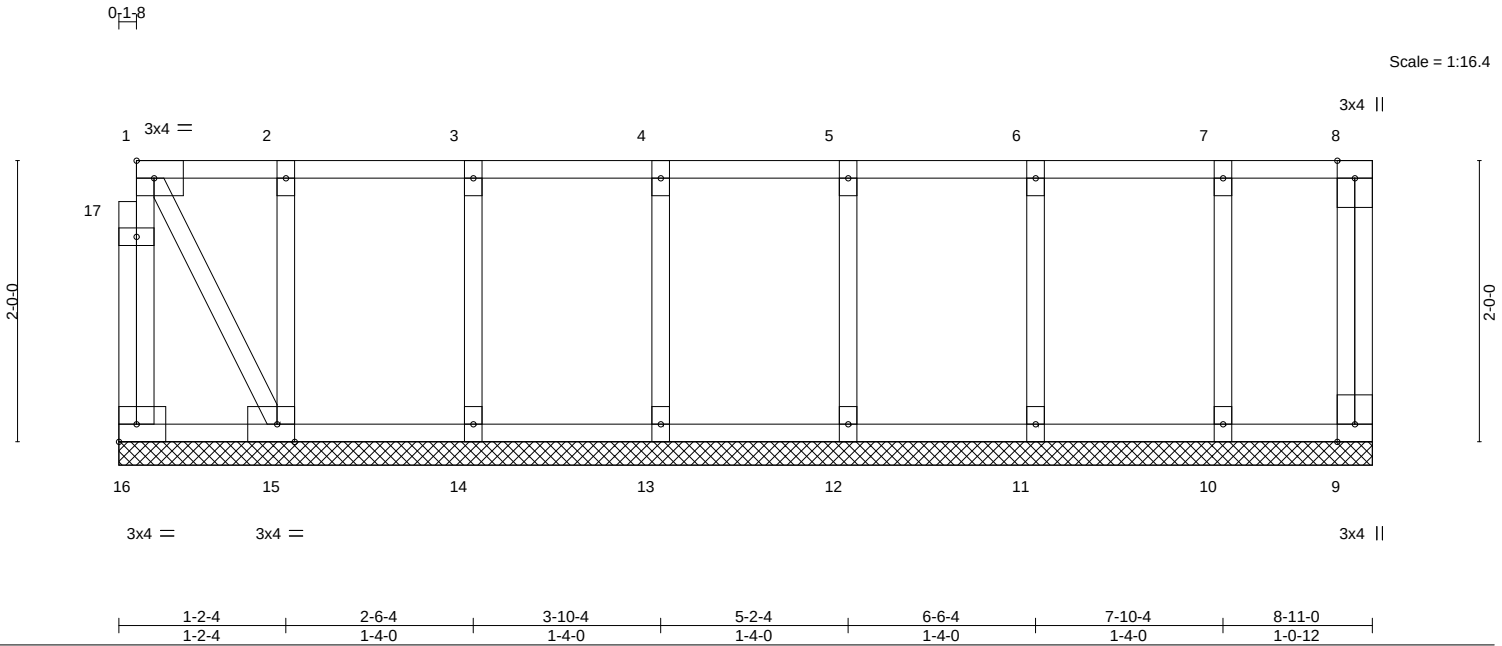

Plate Offsets (X,Y)-- [15:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	9	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 55 lb	FT = 20%F, 11%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 8-11-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 8-11-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 16, 9, 15, 14, 13, 12, 11, 10

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758766
4371416	KW22	GABLE	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:44 2024 Page 1
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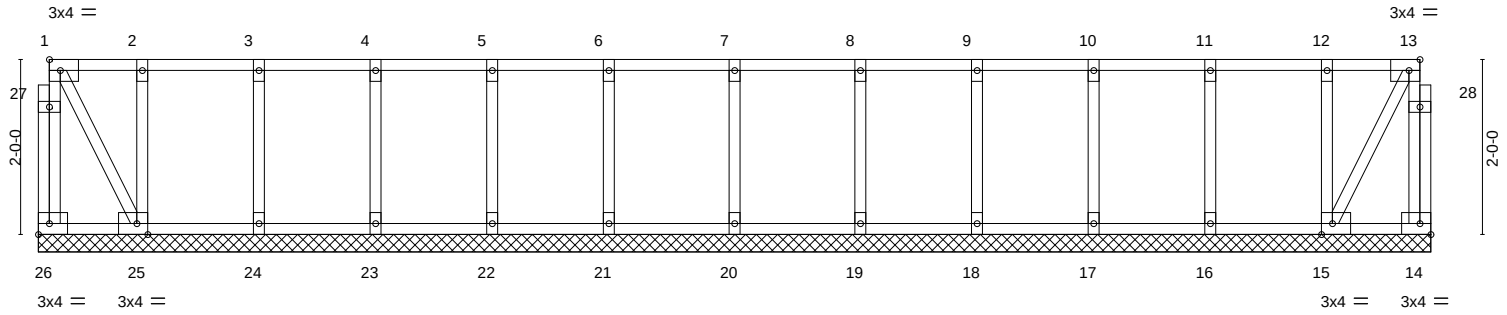

1-2-4	2-6-4	3-10-4	5-2-4	6-6-4	7-11-8	9-4-12	10-8-12	12-0-12	13-4-12	14-8-12	15-11-0
1-2-4	1-4-0	1-4-0	1-4-0	1-4-0	1-5-4	1-5-4	1-4-0	1-4-0	1-4-0	1-4-0	1-2-4

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [15:0-1-8,Edge], [25:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.00	15	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 91 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 25-26,14-15.

REACTIONS. All bearings 15-11-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 15, 20, 16, 17, 18, 19, 24, 23, 22, 21

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758767
4371416	KW27	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:45 2024 Page 1
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0-1-8

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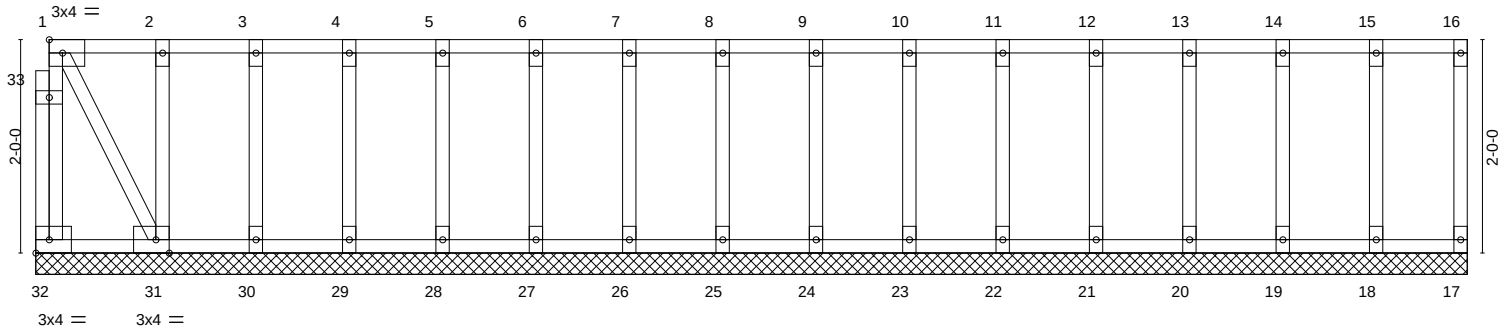

1-2-4	2-0-12	2-11-4	3-9-12	4-8-4	5-6-12	6-5-4	7-3-12	8-2-4	9-0-12	9-11-4	10-9-12	11-8-4	12-6-12	13-5-0
1-2-4	0-10-8	0-10-8	0-10-8	0-10-8	0-10-8	0-10-8	0-10-8	0-10-8	0-10-8	0-10-8	0-10-8	0-10-8	0-10-8	0-10-4

Plate Offsets (X,Y)-- [31:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	60.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	15.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	17	n/a	n/a		
BCDL	5.0	Code FBC2023/TPI2014		Matrix-S							Weight: 87 lb	FT = 20%F, 11%E

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

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

REACTIONS. All bearings 13-5-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 0-10-8 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

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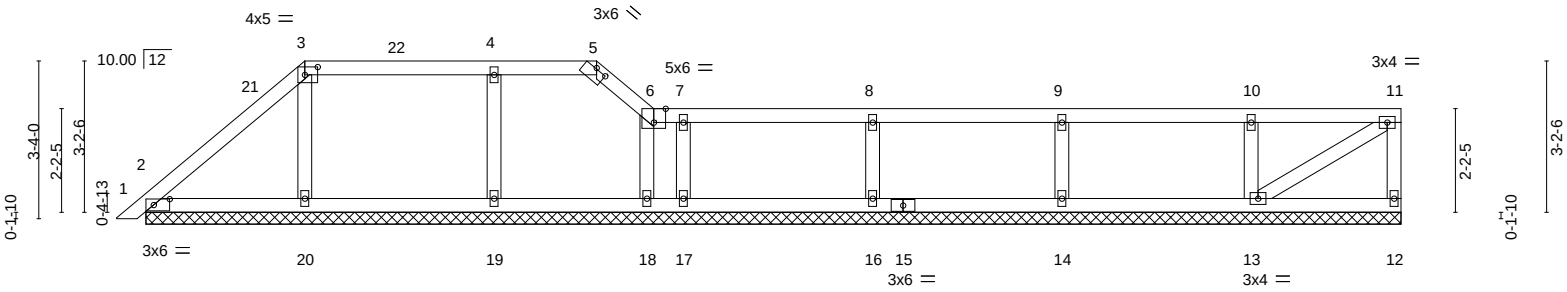
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758768
4371416	PB01	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:48 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-F40acDOS93NprEH4KtcEdjU9rFZUjY?C95RuSNyAnKn

4-0-0 10-2-0 27-2-0
4-0-0 6-2-0 17-0-0

Scale = 1:48.7



27-2-0
27-2-0

Plate Offsets (X,Y)-- [2:0-4-1,0-1-8], [3:0-3-4,0-2-0], [5:0-3-0,0-0-4], [6:0-3-0,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	0.15	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 110 lb	FT = 20%

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

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

REACTIONS. All bearings 26-6-5.
(lb) - Max Horz 2=143(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 12, 2, 18 except 20=-153(LC 12), 19=-173(LC 8), 17=-166(LC 9), 16=-170(LC 9), 14=-167(LC 13), 13=-154(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 12, 2, 18 except 20=266(LC 25), 19=296(LC 26), 17=252(LC 26), 16=302(LC 26), 14=298(LC 1), 13=263(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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-14 to 3-2-14, Zone1 3-2-14 to 4-0-0, Zone2 4-0-0 to 8-0-0, Zone1 8-0-0 to 10-2-0, Zone3 10-2-0 to 11-4-8, Zone1 11-4-8 to 27-0-4 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) 12, 2, 18 except (jt=lb) 20=153, 19=173, 17=166, 16=170, 14=167, 13=154.
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:

December 9,2024

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758769
4371416	PB02	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:49 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-jGaypZO4wNVgSOrHub8TAx1KFevyS_8MOkBR_pyAnKm

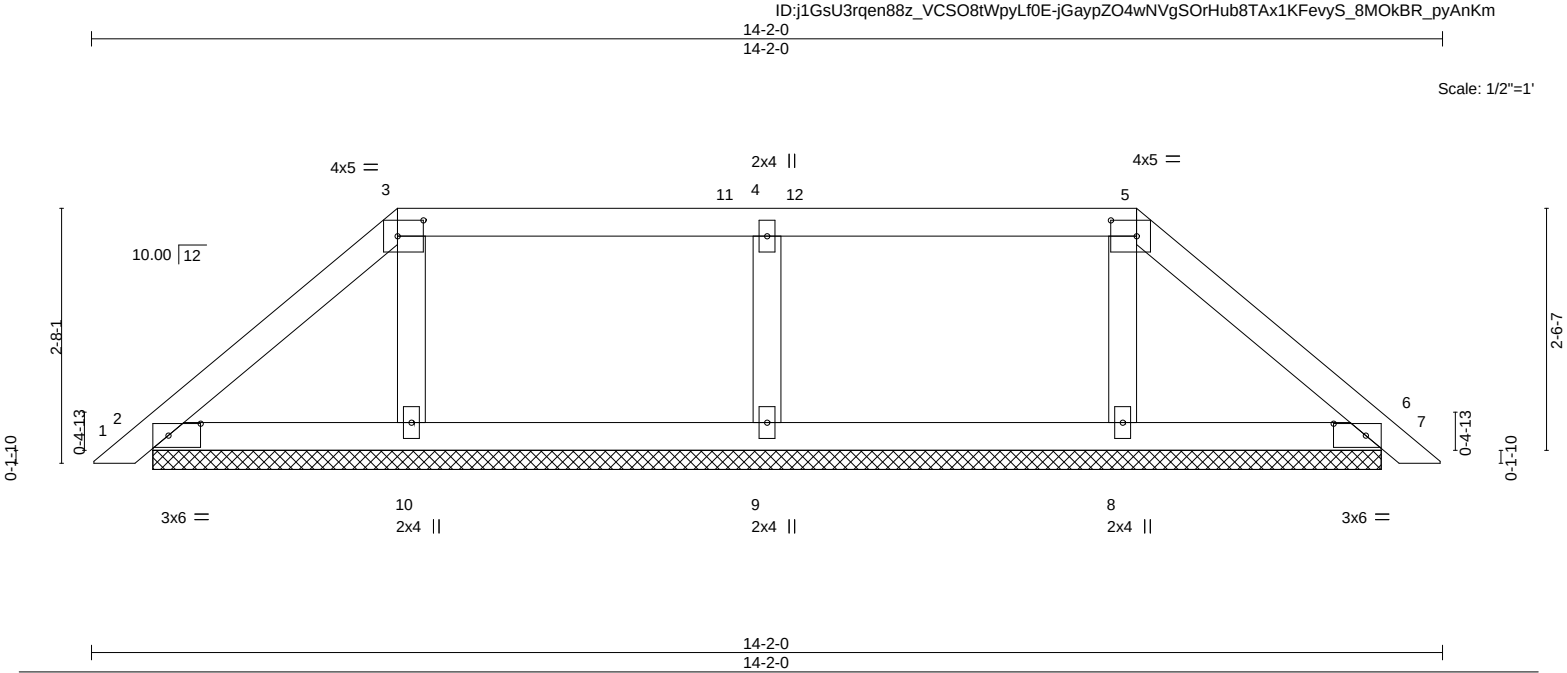

Plate Offsets (X,Y)-- [2:0-4-1,0-1-8], [3:0-3-4,0-2-0], [5:0-3-4,0-2-0], [6:0-4-1,0-1-8]

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	6	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	0.00	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 52 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. All bearings 12-10-9.
(lb) - Max Horz 2=89(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 9=-192(LC 9), 10=-138(LC 12), 8=-120(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 10, 8 except 9=318(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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-14 to 3-2-8, Zone2 3-2-8 to 7-5-7, Zone1 7-5-7 to 10-11-8, Zone3 10-11-8 to 13-11-2 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, 6 except (jt=lb) 9=192, 10=138, 8=120.
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:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758770
4371416	PB03	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:49 2024 Page 1
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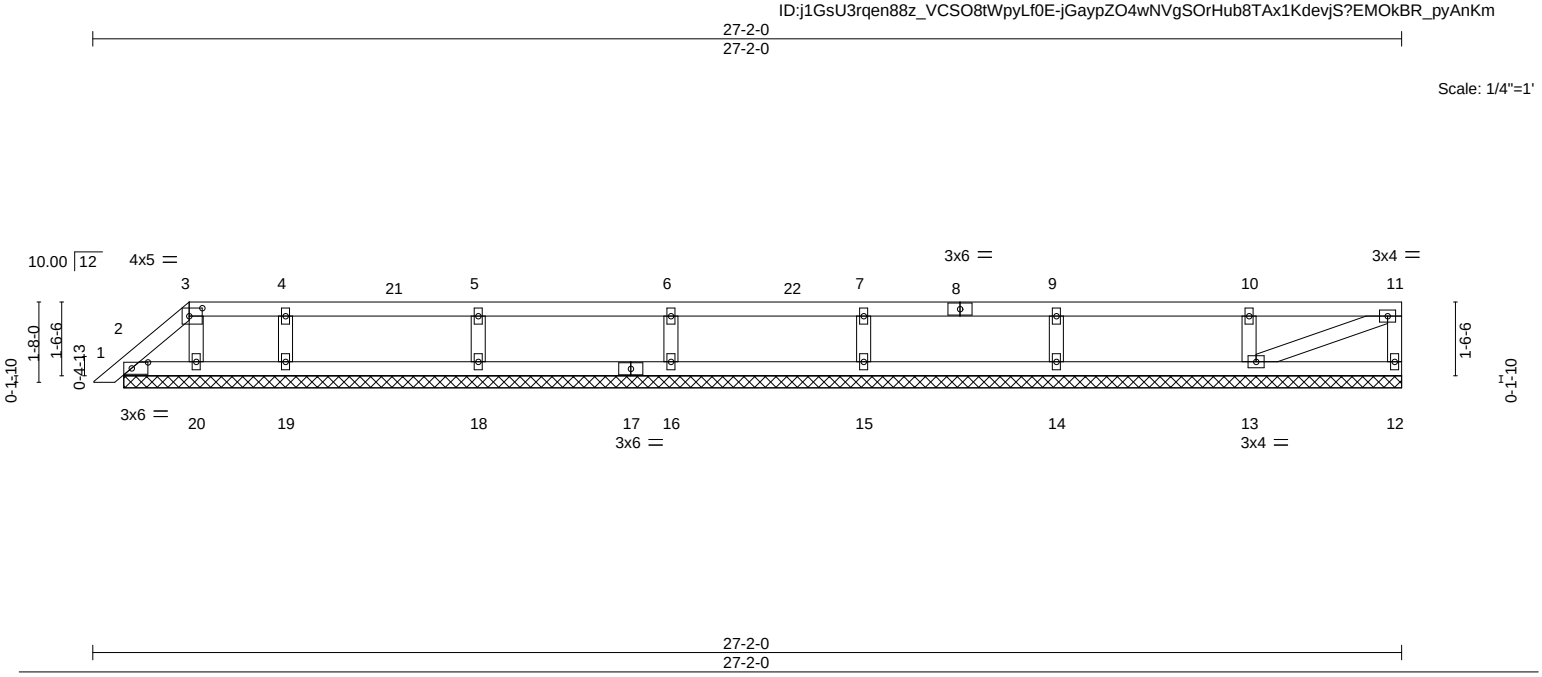

Plate Offsets (X,Y)-- [2:0-4-1,0-1-8], [3:0-3-4,0-2-0]

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	0.15	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.00	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 96 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. All bearings 26-6-5.
(lb) - Max Horz 2=82(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 12, 2, 20 except 19=-143(LC 8), 18=-171(LC 12), 16=-164(LC 8), 15=-165(LC 9), 14=-171(LC 13), 13=-160(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 12, 2, 19, 20 except 18=305(LC 1), 16=294(LC 1), 15=296(LC 1), 14=300(LC 1), 13=285(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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-14 to 2-0-0, Zone2 2-0-0 to 6-2-15, Zone1 6-2-15 to 27-0-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 2, 20 except (jt=lb) 19=143, 18=171, 16=164, 15=165, 14=171, 13=160.
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:

December 9,2024

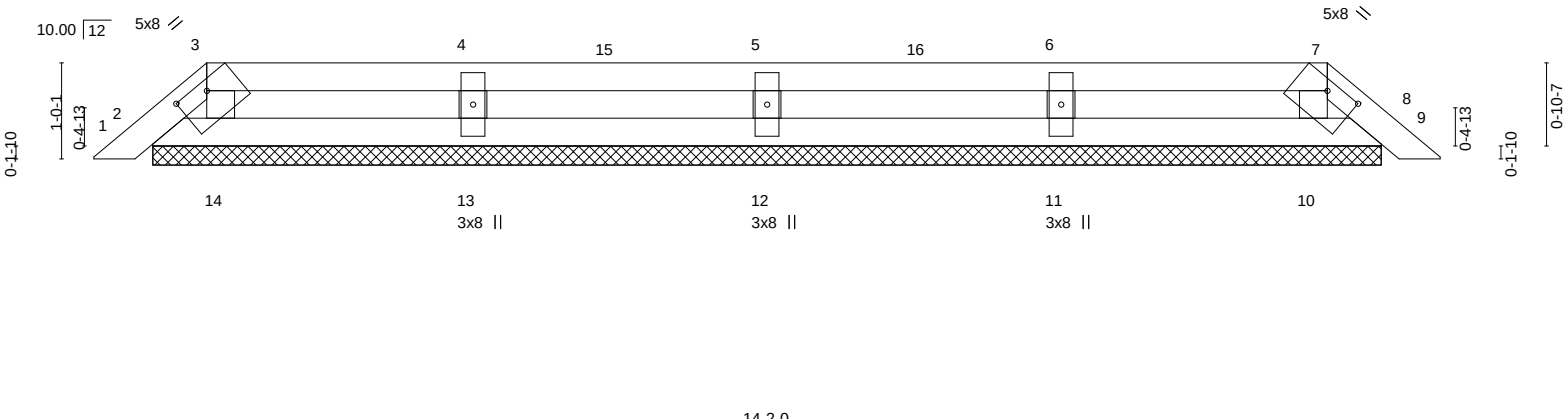
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758771
4371416	PB04	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:50 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-BS8L0vPighdX4YQTRIfij8aWK2FiBRhVcOw?WGyAnKl

14-2-0
14-2-0

Scale: 1/2"=1'



14-2-0
14-2-0

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

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	0.08	Vert(LL)	-0.00	8	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.00	8	n/r	120		
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-S							Weight: 43 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. All bearings 12-10-9.
(lb) - Max Horz 2=30(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 14, 10 except 12=-126(LC 8), 11=-137(LC 13), 13=-137(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 11, 13, 14, 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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-14 to 1-2-8, Zone2 1-2-8 to 5-5-7, Zone1 5-5-7 to 12-11-8, Zone3 12-11-8 to 13-11-2 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, 8, 14, 10 except (jt=lb) 12=126, 11=137, 13=137.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Date:

December 9,2024

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758772
4371416	PB05	GABLE	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:51 2024 Page 1
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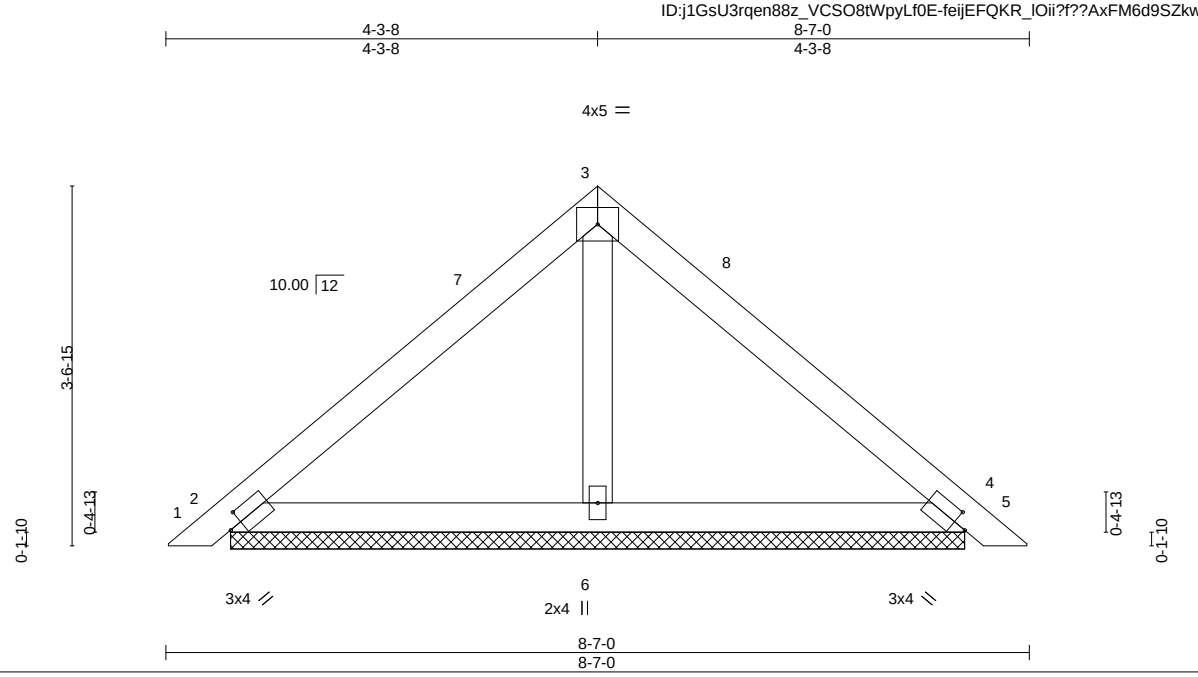

Plate Offsets (X,Y)-- [2:0-1-9,0-1-8], [4:0-1-9,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	0.01	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 32 lb	FT = 20%

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

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

REACTIONS. (size) 2=7-3-9, 4=7-3-9, 6=7-3-9
Max Horz 2=-121(LC 10)
Max Uplift 2=-87(LC 12), 4=-102(LC 13), 6=-86(LC 12)
Max Grav 2=164(LC 1), 4=164(LC 1), 6=255(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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-14 to 3-2-14, Zone1 3-2-14 to 4-3-8, Zone3 4-3-8 to 8-4-2 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 except (jt=lb) 4=102.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	PB06	PIGGYBACK	1	2	T35758773

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:51 2024 Page 1
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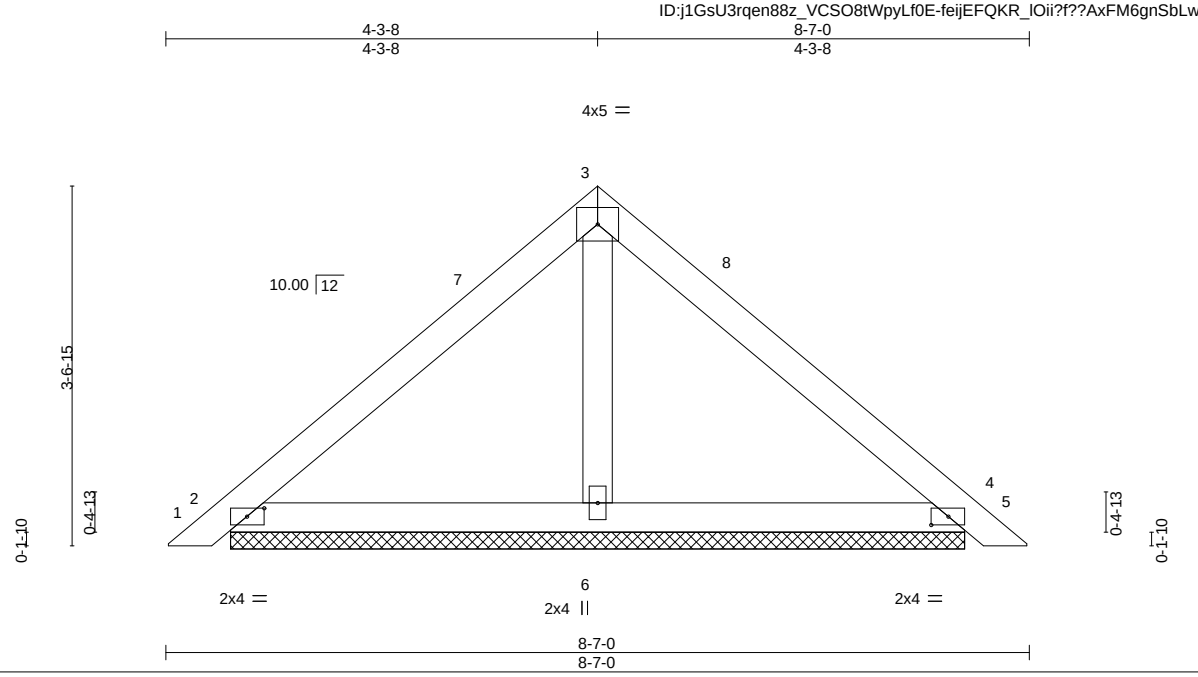

Plate Offsets (X,Y)-- [2:0-2-1,0-1-0], [4:0-2-1,0-1-0]

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	0.17	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	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-S							Weight: 63 lb	FT = 20%

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

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

REACTIONS. (size) 2=7-3-9, 4=7-3-9, 6=7-3-9
Max Horz 2=-121(LC 10)
Max Uplift 2=-87(LC 12), 4=-102(LC 13), 6=-86(LC 12)
Max Grav 2=164(LC 1), 4=164(LC 1), 6=255(LC 1)

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

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-14 to 3-2-14, Zone1 3-2-14 to 4-3-8, Zone3 4-3-8 to 8-4-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Gable requires continuous bottom chord bearing.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 4=102.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758774
4371416	PB07	PIGGYBACK	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:52 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-7rF5RbRyCItFJsarZjhAoZfrPsxBfLzo4iP5b8yAnKj

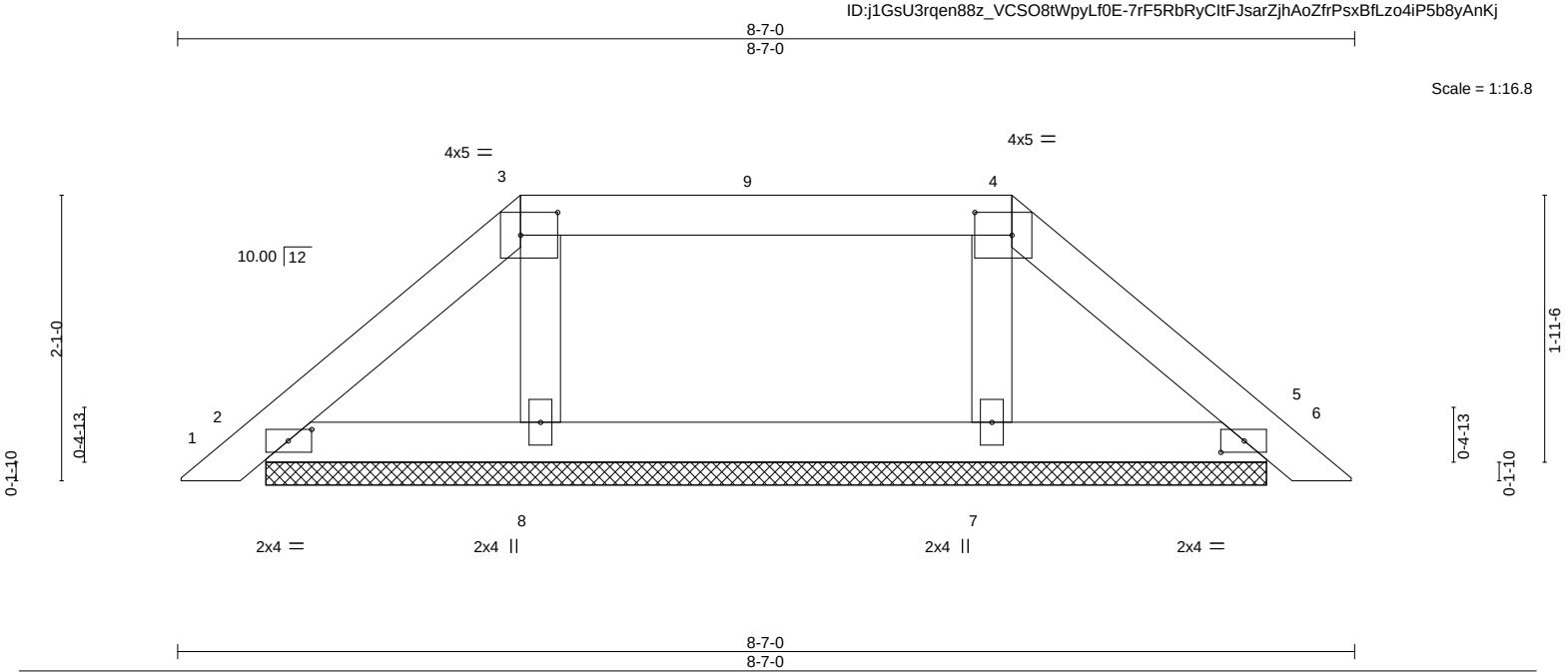

Plate Offsets (X,Y)-- [2:0-2-1,0-1-0], [3:0-3-4,0-2-0], [4:0-3-4,0-2-0], [5:0-2-1,0-1-0]

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	0.18	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	0.00	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 30 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. All bearings 7-3-9.
(lb) - Max Horz 2=68(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 7 except 8=-104(LC 9)
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=35ft; Cat. II; Exp C; 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, 7 except (jt=lb) 8=104.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758775
4371416	PB08	Piggyback	9	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:52 2024 Page 1
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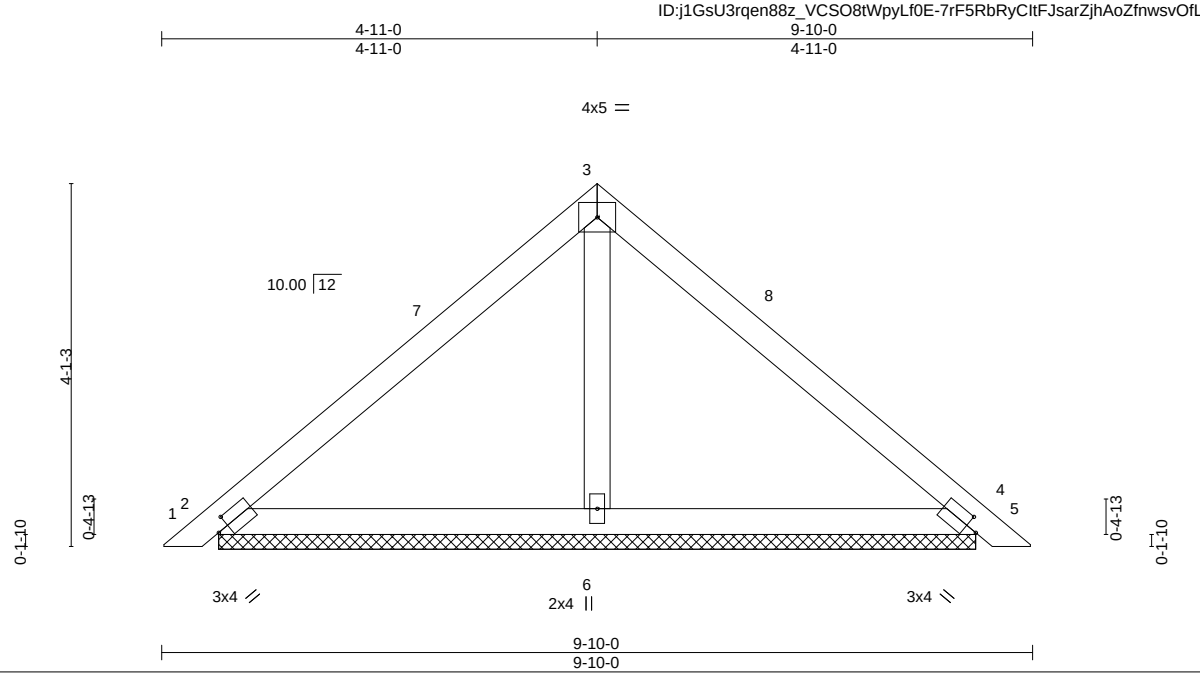

Plate Offsets (X,Y)-- [2:0-1-9,0-1-8], [4:0-1-9,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	0.01	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 37 lb	FT = 20%

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

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

REACTIONS. (size) 2=8-6-9, 4=8-6-9, 6=8-6-9
Max Horz 2=-139(LC 10)
Max Uplift 2=-98(LC 12), 4=-115(LC 13), 6=-102(LC 12)
Max Grav 2=188(LC 1), 4=188(LC 1), 6=300(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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-14 to 3-2-14, Zone1 3-2-14 to 4-11-0, Zone2 4-11-0 to 9-2-5, Zone1 9-2-5 to 9-7-2 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 except (jt=lb) 4=115, 6=102.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758776
4371416	PB08G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:53 2024 Page 1
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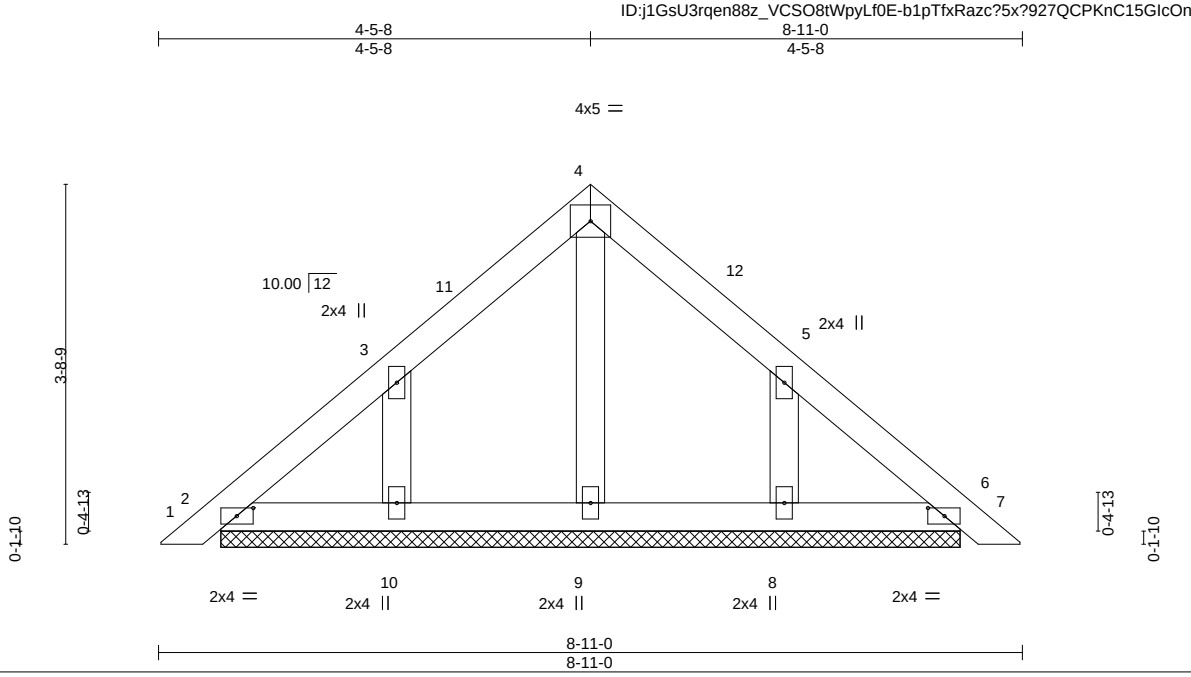

Plate Offsets (X,Y)-- [2:0-2-1,0-1-0], [6:0-2-1,0-1-0]

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	0.12	Vert(LL)	0.00	6	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	0.00	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 37 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 7-7-9.
(lb) - Max Horz 2=-126(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-182(LC 12), 8=-181(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-10=-192/330, 5-8=-192/361

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-14 to 3-2-14, Zone1 3-2-14 to 4-5-8, Zone3 4-5-8 to 8-8-2 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 except (jt=lb) 10=182, 8=181.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758777
4371416	T01	Half Hip Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:53 2024 Page 1
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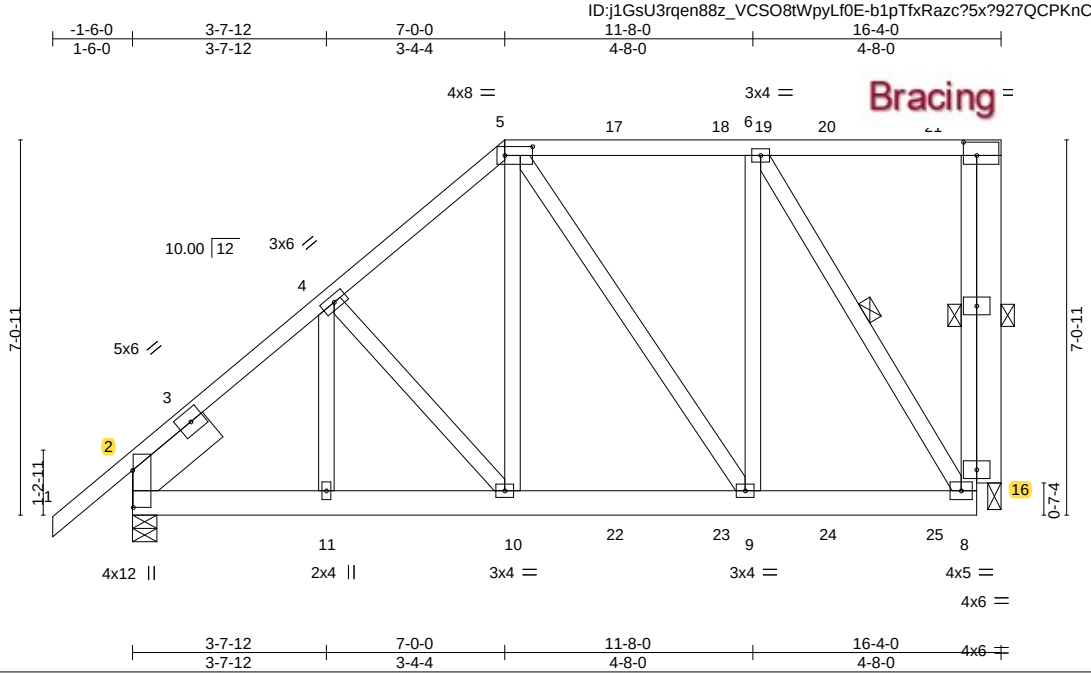

Plate Offsets (X,Y)-- [2:0-8-6,0-0-2], [5:0-6-4,0-2-0], [7:0-3-0,0-3-0]

LOADING (psf)		SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.25	TC	0.49	Vert(LL)	0.08	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25	BC	0.46	Vert(CT)	0.07	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr NO	WB	0.65	Horz(CT)	-0.02	16	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014	Matrix-MS							Weight: 151 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x6 SP No.2
SLIDER Left 2x8 SP 2400F 2.0E 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-1-0 oc bracing.
WEBS 1 Row at midpt 7-8, 6-8, 7-16

REACTIONS. (size) 2=0-5-8, 16=0-3-0 (req. 0-3-1)
Max Horz 2=388(LC 8)
Max Uplift 2=-955(LC 8), 16=-2024(LC 8)
Max Grav 2=1199(LC 35), 16=2591(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1218/1048, 4-5=-1237/1185, 5-6=-802/797, 7-8=-1231/1202
BOT CHORD 2-11=-1005/944, 10-11=-1005/944, 9-10=-998/960, 8-9=-817/823
WEBS 4-10=-368/400, 5-10=-775/763, 5-9=-276/351, 6-9=-653/675, 6-8=-1099/1171, 7-16=-2598/2030

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical 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.
7) WARNING: Required bearing size at joint(s) 16 greater than input bearing size.
8) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=955, 16=2024.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1282 lb down and 672 lb up at 16-4-0, 118 lb down and 102 lb up at 7-0-0, 118 lb down and 98 lb up at 9-0-12, 118 lb down and 90 lb up at 11-0-12, and 118 lb down and 98 lb up at 13-0-12, and 108 lb down and 101 lb up at 15-0-12 on top chord, and 536 lb down and 646 lb up at 7-0-0, 174 lb down and 204 lb up at 9-0-12, 174 lb down and 204 lb up at 11-0-12, and 174 lb down and 204 lb up at 13-0-12, and 177 lb down and 200 lb up at 15-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
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

Continued on page 2

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Date:

December 9,2024

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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: 1-5=-54, 5-7=-54, 8-12=-20
   Concentrated Loads (lb)
   Vert: 5=-26(F) 7=-1200 10=-358(F) 17=-26(F) 18=-26(F) 20=-26(F) 21=-33(F) 22=-136(F) 23=-136(F) 24=-136(F) 25=-140(F)

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758778
4371416	T02	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:54 2024 Page 1
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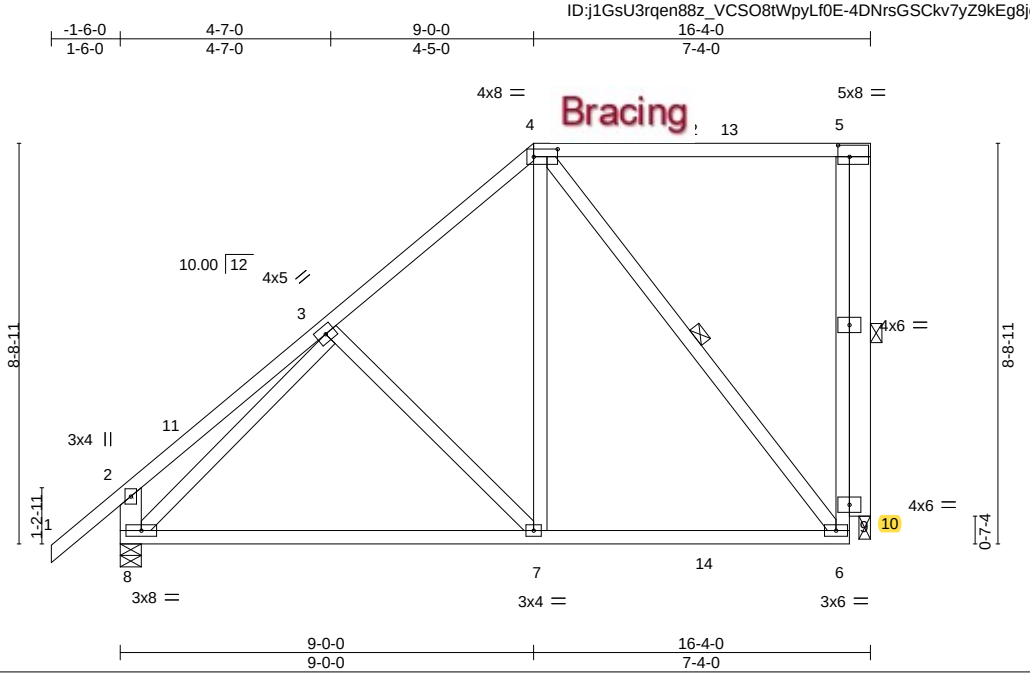

Plate Offsets (X,Y)-- [4:0-6-4,0-2-0], [5:0-3-0,0-3-0]

LOADING (psf)		SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.25	TC	0.57	Vert(LL)	-0.15	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25	BC	0.74	Vert(CT)	-0.30	7-8	>644	180		
BCLL	0.0 *	Rep Stress Incr NO	WB	0.35	Horz(CT)	-0.02	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014	Matrix-MS							Weight: 133 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 2-8: 2x6 SP No.2
OTHERS	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 8-5-9 oc bracing.
WEBS	1 Row at midpt 4-6, 5-10

REACTIONS. (size) 8=0-5-8, 10=0-3-0
Max Horz 8=459(LC 12)
Max Uplift 8=-282(LC 12), 10=-795(LC 12)
Max Grav 8=788(LC 19), 10=1519(LC 19)

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

TOP CHORD	2-3=-292/181, 3-4=-542/223, 6-9=-252/468, 5-9=-252/468, 2-8=-361/282
BOT CHORD	7-8=-481/527, 6-7=-264/390
WEBS	3-7=-204/307, 4-7=-156/496, 4-6=-471/337, 3-8=-470/63, 5-10=-1522/797

NOTES-

1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 15-8-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=282, 10=795.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1007 lb down and 462 lb up at 16-4-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-4=-54, 4-5=-54, 6-8=-20

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Continued on page 2

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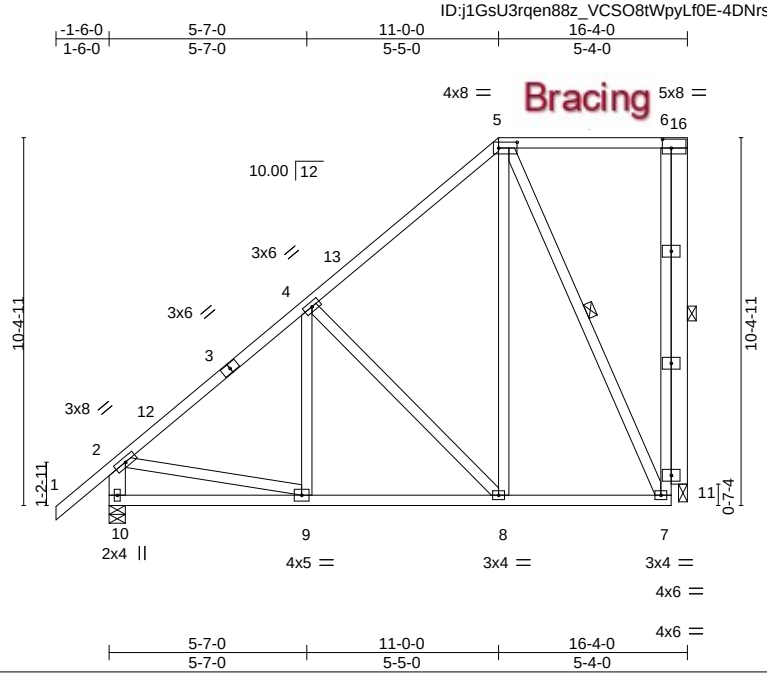
LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 5=-800

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758779
4371416	T03	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:54 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-4DNrsGSCkv7yZ9kEg8jet_k5WfZt79h5X0uCf1yAnKh



Scale = 1:65.1

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

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.52	Vert(LL)	0.03	8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.05	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.43	Horz(CT)	-0.01	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 152 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 2-10: 2x6 SP No.2
OTHERS	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 7-7-10 oc bracing.
WEBS	1 Row at midpt 5-7, 6-11

REACTIONS. (size) 10=0-5-8, 11=0-3-0
Max Horz 10=552(LC 12)
Max Uplift 10=-226(LC 12), 11=-651(LC 12)
Max Grav 10=701(LC 1), 11=952(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-632/140, 4-5=-395/139, 6-7=-371/426, 2-10=-652/269
BOT CHORD 9-10=-605/345, 8-9=-482/484
WEBS 4-8=-368/387, 5-8=-217/346, 5-7=-408/400, 2-9=-9/357, 6-11=-953/652

NOTES-

1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 15-8-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) 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.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=226, 11=651.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 503 lb down and 231 lb up at 16-4-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-5=-54, 5-6=-54, 7-10=-20

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Date:

December 9,2024

Continued on page 2

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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 6=-400

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758780
4371416	T04	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:55 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-YQxE4cTrVDFpAJJQErFtQCHEX3sNsZfEmgemCTyAnKg

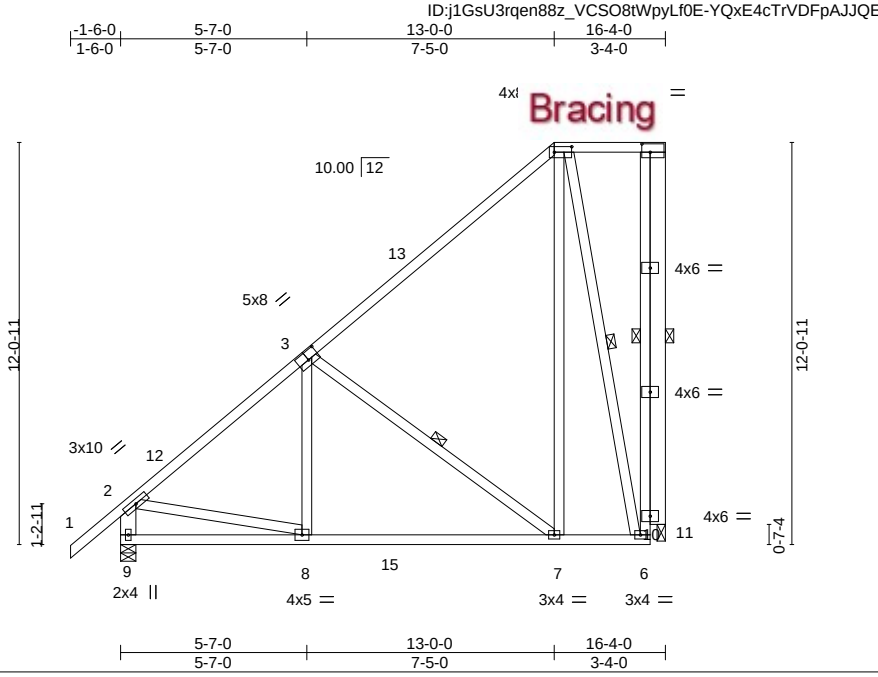

Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [4:0-6-4,0-2-0], [5:0-3-0,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	-0.09	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.17	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(CT)	-0.01	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 166 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except*
	2-9: 2x6 SP No.2
OTHERS	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 7-5-13 oc bracing.
WEBS	1 Row at midpt 5-10, 3-7, 4-6, 5-11

REACTIONS. (size) 9=0-5-8, 11=0-3-0
Max Horz 9=645(LC 12)
Max Uplift 9=-159(LC 12), 11=-518(LC 12)
Max Grav 9=789(LC 19), 11=675(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-718/64, 3-4=-322/7, 6-10=-545/707, 5-10=-545/707, 2-9=-721/211
BOT CHORD 8-9=-627/330, 7-8=-540/645
WEBS 3-8=0/269, 3-7=-566/490, 4-7=-237/558, 4-6=-728/549, 2-8=0/471, 5-11=-675/518

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 13-0-0, Zone3 13-0-0 to 15-8-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) 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.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=159, 11=518.

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December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758781
4371416	T05	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:55 2024 Page 1
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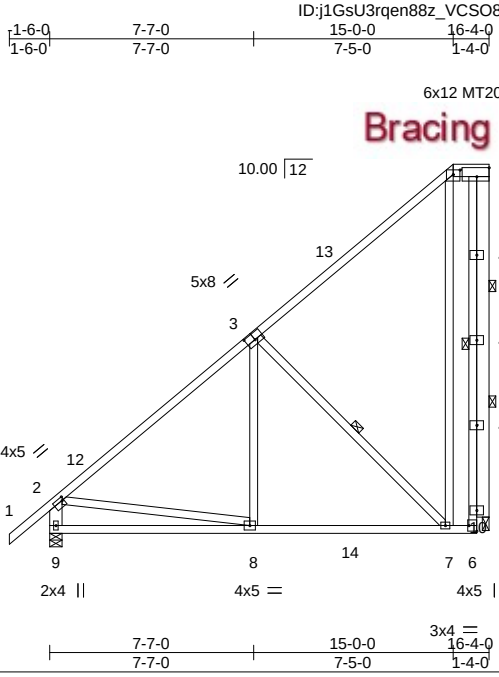

Scale = 1:85.7

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

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.77	Vert(LL)	0.19	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.26	7-8	>736	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(CT)	-0.02	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 165 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 4-5: 2x6 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 5-6,4-7: 2x4 SP No.2, 2-9: 2x6 SP No.2
OTHERS	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 6-2-10 oc bracing.
WEBS	1 Row at midpt 5-10, 3-7 2 Rows at 1/3 pts 5-11

REACTIONS. (size) 9=0-5-8, 11=0-3-0
Max Horz 9=734(LC 12)
Max Uplift 9=-91(LC 12), 11=-602(LC 12)
Max Grav 9=782(LC 19), 11=787(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-666/0, 3-4=-260/33, 6-10=-337/290, 5-10=-337/290, 2-9=-680/168
BOT CHORD 8-9=-891/498, 7-8=-472/584
WEBS 3-8=-49/369, 3-7=-712/585, 4-7=-20/354, 2-8=-98/471, 5-11=-788/603

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 15-0-0, Zone3 15-0-0 to 15-8-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 11=602.

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758782
4371416	T06	ATTIC	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:56 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-0cVcHyUTGXNgoTudoZm6yPpLgT8yb0yO?KNJkvyAnKf

1-6-0 5-0-0 8-2-8 11-6-0 16-4-0
1-6-0 5-0-0 3-2-8 3-3-8 4-10-0

Bracing

Scale = 1:90.4

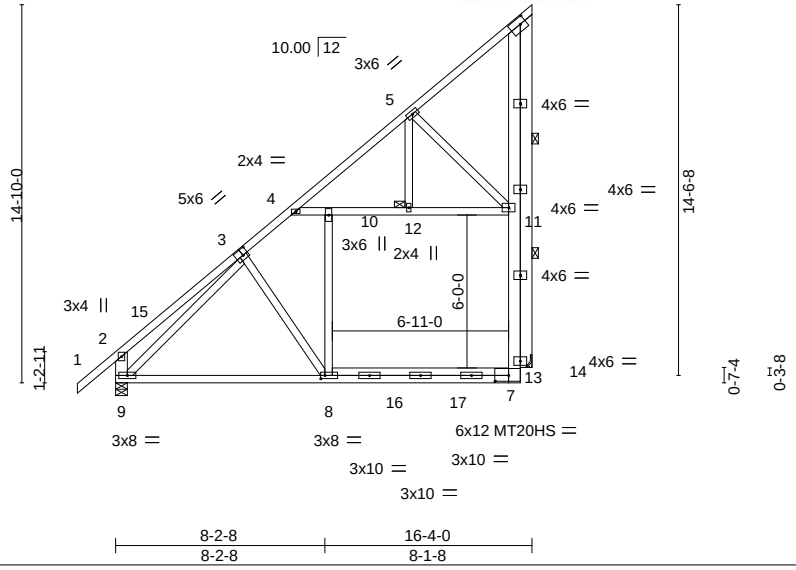

Plate Offsets (X,Y)-- [3:0-2-8,0-3-0], [6:0-2-12,0-3-0], [7:0-6-8,0-2-12], [8:0-2-0,0-1-8]

LOADING (psf)		SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0		Plate Grip DOL 1.25	TC 0.93	Vert(LL) 0.38 8-9 >505 240	MT20 244/190
TCDL 7.0		Lumber DOL 1.25	BC 0.72	Vert(CT) -0.55 8-9 >346 180	MT20HS 187/143
BCLL 0.0	*	Rep Stress Incr YES	WB 0.64	Horz(CT) 0.03 14 n/a n/a	
BCDL 10.0		Code FBC2023/TPI2014	Matrix-MS	Attic 0.08 7-8 1114 360	Weight: 189 lb FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except*
	6-7,2-9: 2x6 SP No.2, 8-10: 2x4 SP No.2
	4-11: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
OTHERS	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 6-1-7 oc bracing.
WEBS	2 Rows at 1/3 pts 6-14
JOINTS	1 Brace at Jt(s): 12

REACTIONS. (size) 9=0-5-8, 14=Mechanical
Max Horz 9=765(LC 12)
Max Uplift 14=-432(LC 12)
Max Grav 9=846(LC 20), 14=1195(LC 20)

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

TOP CHORD	2-3=-338/234, 3-4=-696/153, 4-5=-476/394, 5-6=-492/704, 7-13=0/517, 11-13=0/529, 6-11=-190/875, 2-9=-391/411
BOT CHORD	8-9=-675/1036, 7-8=-426/795
WEBS	3-8=-435/444, 8-10=-105/456, 5-11=-610/366, 3-9=-746/283, 4-10=-464/187, 10-12=-464/187, 11-12=-464/187, 5-12=0/306, 6-14=-1265/535

NOTES-

1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 15-7-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) 100.0lb AC unit load placed on the bottom chord, 12-0-0 from left end, supported at two points, 2-6-0 apart.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Ceiling dead load (5.0 psf) on member(s). 4-10, 10-12, 11-12; Wall dead load (5.0psf) on member(s).8-10
8) Bottom chord live load (30.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 7-8
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) 14=432.
11) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758783
4371416	T07	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:56 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-0cVcHyUTGXNgoTudoZm6yPpP5TCKbxIO?KNJkvyAnKf

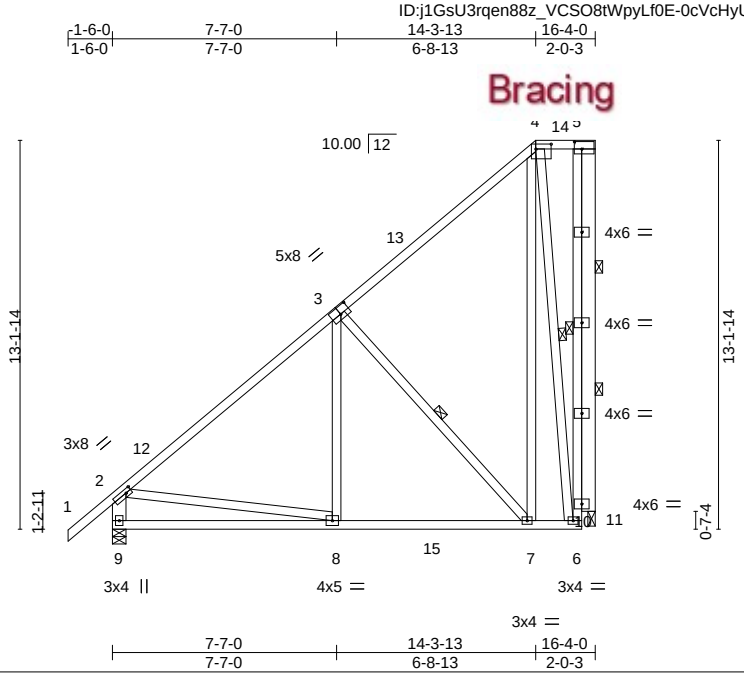

Plate Offsets (X,Y)-- [2:0-2-4,0-1-8], [3:0-4-0,0-3-0], [4:0-6-4,0-2-0], [5:0-3-0,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	-0.07	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.14	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	-0.01	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 179 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* 3-8,3-7,2-8: 2x4 SP No.3, 2-9: 2x6 SP No.2
OTHERS	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 6-2-10 oc bracing.
WEBS	1 Row at midpt 5-10, 3-7, 4-6 2 Rows at 1/3 pts 5-11

REACTIONS. (size) 9=0-5-8, 11=0-3-0
Max Horz 9=706(LC 12)
Max Uplift 9=-114(LC 12), 11=-579(LC 12)
Max Grav 9=785(LC 19), 11=748(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-653/0, 3-4=-256/3, 6-10=-628/778, 5-10=-628/778, 2-9=-672/182
BOT CHORD 8-9=-910/523, 7-8=-450/554
WEBS 3-8=-29/335, 3-7=-639/531, 4-7=-326/636, 4-6=-783/596, 2-8=-139/464, 5-11=-749/580

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 14-3-13, Zone3 14-3-13 to 15-8-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) 9=114, 11=579.

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758784
4371416	T08	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:57 2024 Page 1
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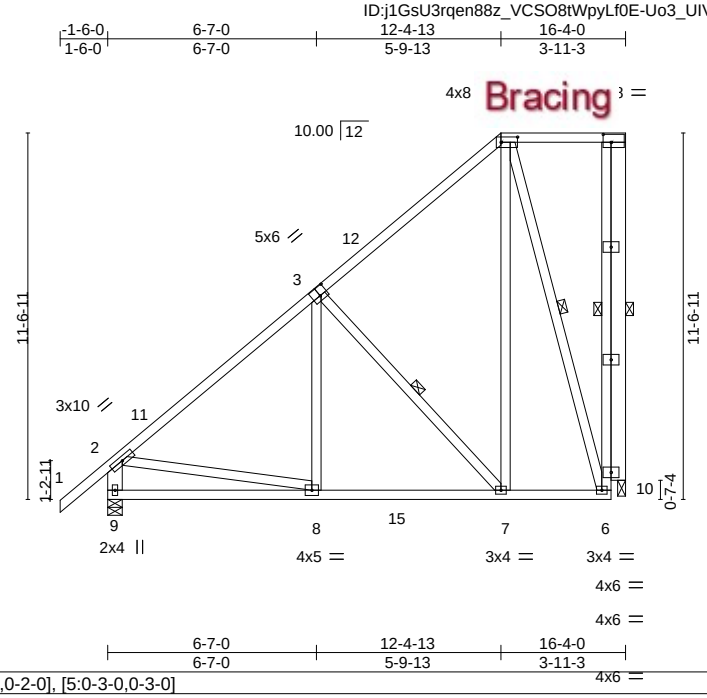

Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [4:0-6-4,0-2-0], [5:0-3-0,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.04	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.08	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	-0.01	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 164 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except*
	2-9: 2x6 SP No.2
OTHERS	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 6-10-11 oc bracing.
WEBS	1 Row at midpt 5-6, 3-7, 4-6, 5-10

REACTIONS. (size) 9=0-5-8, 10=0-3-0
Max Horz 9=617(LC 12)
Max Uplift 9=-179(LC 12), 10=-491(LC 12)
Max Grav 9=786(LC 19), 10=651(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-675/66, 3-4=-318/67, 5-6=-466/645, 2-9=-688/233
BOT CHORD 8-9=-745/428, 7-8=-463/565
WEBS 3-8=-11/274, 3-7=-533/449, 4-7=-272/538, 4-6=-608/466, 2-8=-46/421, 5-10=-651/492

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-4-13, Zone3 12-4-13 to 15-8-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) 10 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) 9=179, 10=491.

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:

December 9,2024

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758785
4371416	T09	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:57 2024 Page 1
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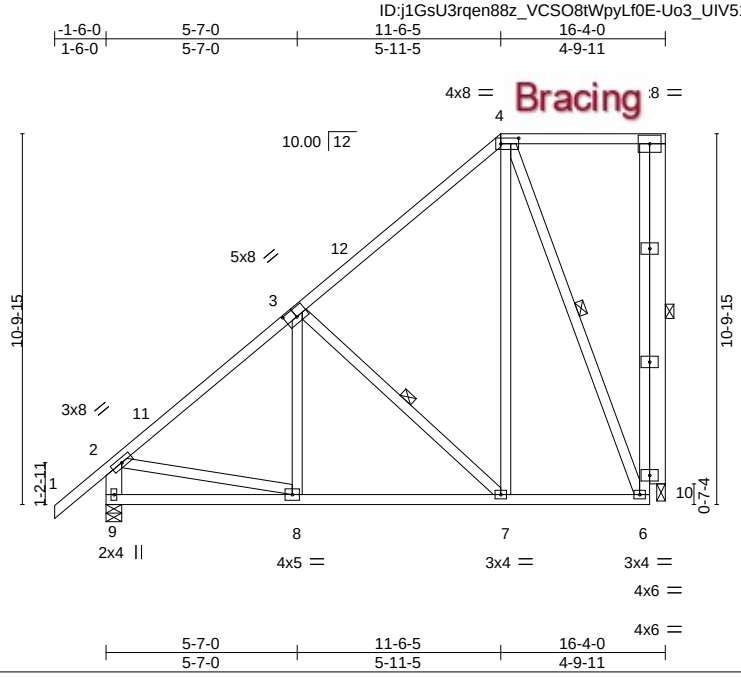

Scale = 1:67.3

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

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	0.76	Vert(LL)	-0.03	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.07	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	-0.01	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 156 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 2-9: 2x6 SP No.2
OTHERS	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 7-7-12 oc bracing.
WEBS	1 Row at midpt 3-7, 4-6, 5-10

REACTIONS. (size) 9=0-5-8, 10=0-3-0
Max Horz 9=576(LC 12)
Max Uplift 9=-205(LC 12), 10=-455(LC 12)
Max Grav 9=689(LC 1), 10=551(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-622/116, 3-4=-365/94, 5-6=-416/473, 2-9=-641/254
BOT CHORD 8-9=-602/336, 7-8=-498/492
WEBS 3-7=-396/413, 4-7=-215/352, 4-6=-456/434, 2-8=0/374, 5-10=-552/455

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-6-5, Zone3 11-6-5 to 15-8-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=205, 10=455.

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Date:

December 9,2024

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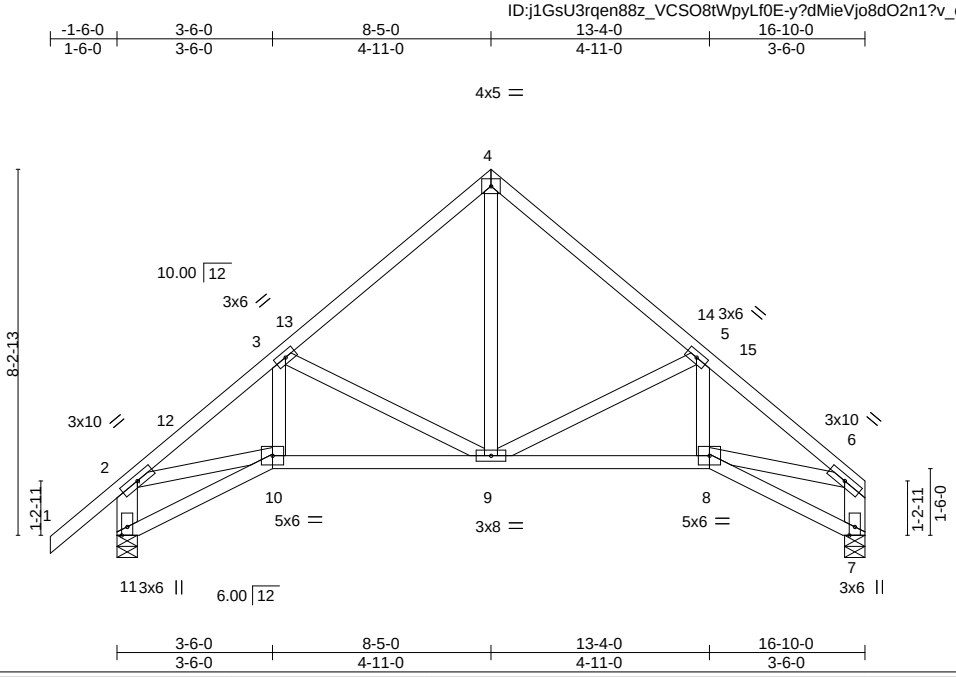
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758786
4371416	T10	Roof Special	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:58 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-y?dMieVjo8dO2n1?v_oa1qvoaHxi3?7gSesQooyAnKd



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	0.39	Vert(LL)	0.03	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.05	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 108 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 2-11,6-7: 2x6 SP No.2

BRACING-

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

REACTIONS. (size) 11=0-5-8, 7=0-5-8
Max Horz 11=340(LC 9)
Max Uplift 11=-315(LC 12), 7=-245(LC 13)
Max Grav 11=704(LC 1), 7=601(LC 1)

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

TOP CHORD	2-3=-1005/544, 3-4=-605/380, 4-5=-606/425, 5-6=-978/564, 2-11=-701/446, 6-7=-581/404
BOT CHORD	10-11=-333/338, 9-10=-419/902, 8-9=-381/705
WEBS	4-9=-294/509, 5-9=-425/359, 3-9=-474/398, 3-10=-136/274, 2-10=-331/719, 6-8=-322/688

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 8-5-0, Zone2 8-5-0 to 12-7-15, Zone1 12-7-15 to 16-7-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 11, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=315, 7=245.

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Date:

December 9,2024

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758787
4371416	T10G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:59 2024 Page 1
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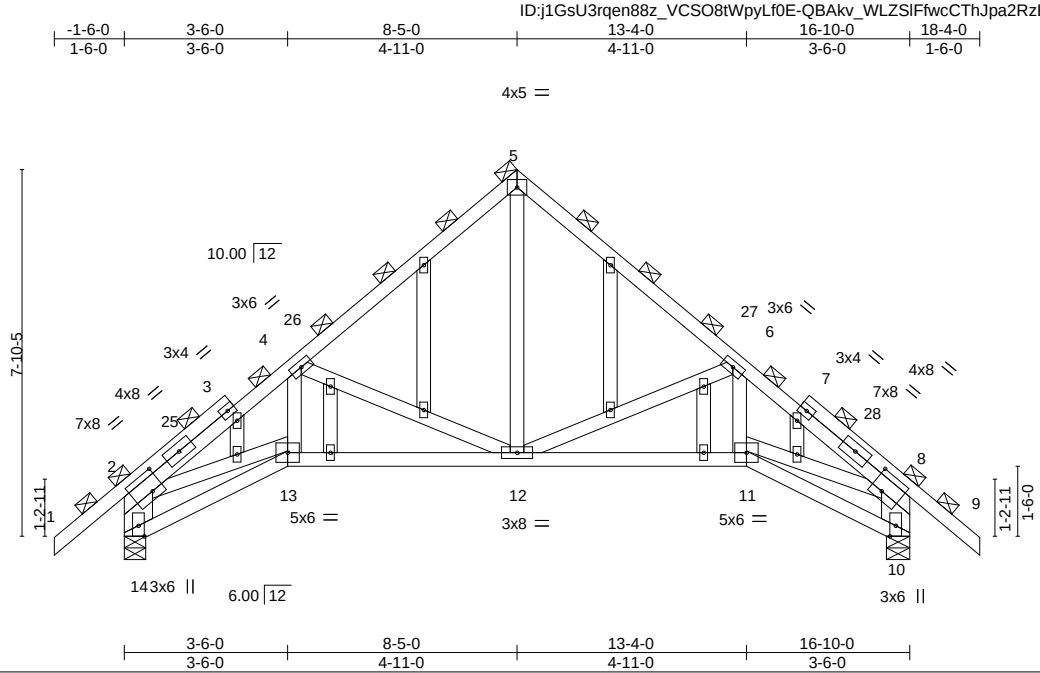

Plate Offsets (X,Y)-- [2:0-3-0,0-5-0], [8:0-3-0,0-5-0]

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	0.40	Vert(LL)	0.03	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.06	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.05	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 135 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-14,8-10: 2x8 SP 2400F 2.0E
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (5-7-7 max.), except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-1-6 oc bracing.

REACTIONS. (size) 14=0-5-8, 10=0-6-0
Max Horz 14=336(LC 11)
Max Uplift 14=-319(LC 12), 10=-319(LC 13)
Max Grav 14=698(LC 1), 10=698(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1143/493, 4-5=-619/335, 5-6=-619/356, 6-8=-1061/412, 2-14=-724/420, 8-10=-680/450
BOT CHORD 13-14=-279/370, 12-13=-423/1040, 11-12=-200/777
WEBS 5-12=-206/500, 6-12=-473/346, 6-11=-4/268, 4-12=-571/423, 4-13=-118/330, 2-13=-337/824, 8-11=-266/765

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 8-5-0, Zone2 8-5-0 to 12-7-15, Zone1 12-7-15 to 18-4-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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) Bearing at joint(s) 14, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=319, 10=319.
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:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758788
4371416	T11	Roof Special	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:25:59 2024 Page 1
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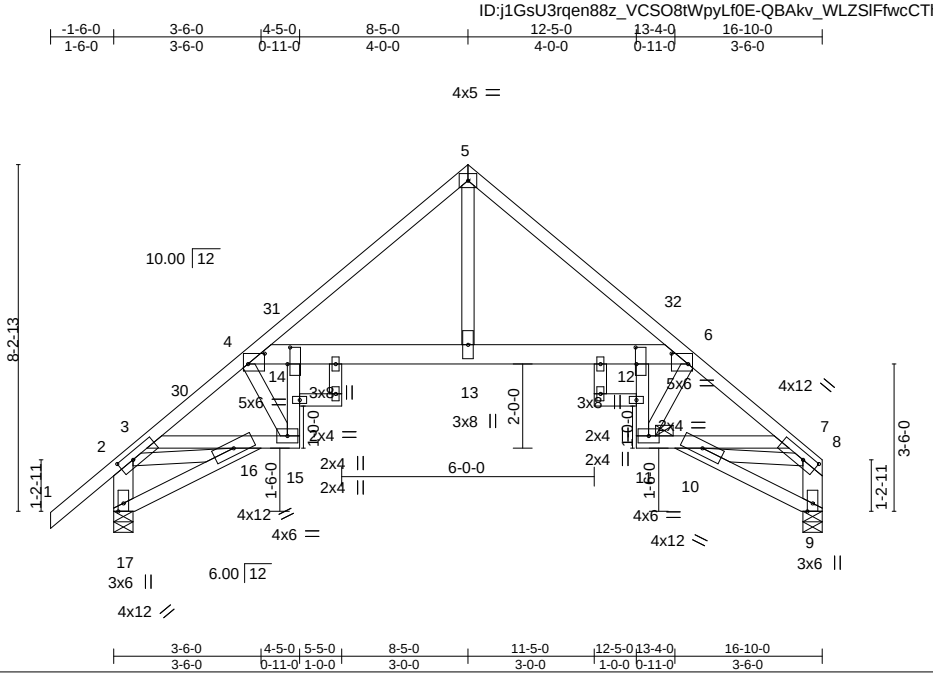

Plate Offsets (X,Y)-- [3:0-4-4,0-2-0], [4:0-4-11,0-3-0], [6:0-4-11,0-3-0], [8:0-4-4,0-2-0], [12:0-4-12,0-0-4], [14:0-4-12,0-0-12]

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	0.43	Vert(LL)	0.21	13-14	>917	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.28	12-13	>699	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.50	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 117 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 14-15,11-12,18-19,21-22: 2x4 SP No.3 4-6: 2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS	2x4 SP No.3 *Except* 2-17,8-9: 2x6 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-2-1 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 9-2-1 oc bracing. Except: 9-6-0 oc bracing: 10-11 10-0-0 oc bracing: 12-13
JOINTS	1 Brace at Jt(s): 11

REACTIONS. (size) 17=0-5-8, 9=0-5-8
Max Horz 17=340(LC 9)
Max Uplift 17=-315(LC 12), 9=-245(LC 13)
Max Grav 17=704(LC 1), 9=601(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-833/449, 4-25=-913/514, 4-5=-1045/545, 5-6=-1108/587, 6-7=-903/566, 7-8=-843/560, 2-17=-732/453, 8-9=-597/402
BOT CHORD 16-17=-351/380, 15-16=-399/874, 14-15=-791/1757, 4-14=-199/788, 13-14=-251/887, 12-13=-251/887, 6-12=-248/821, 11-12=-747/1362, 10-11=-380/685
WEBS 5-13=-478/1045, 6-11=-1378/761, 2-16=-188/435, 8-10=-328/473, 4-15=-1742/790

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 8-5-0, Zone2 8-5-0 to 12-7-15, Zone1 12-7-15 to 16-7-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 17, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=315, 9=245.

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Date:

December 9,2024

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758789
4371416	T12	Roof Special	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:00 2024 Page 1
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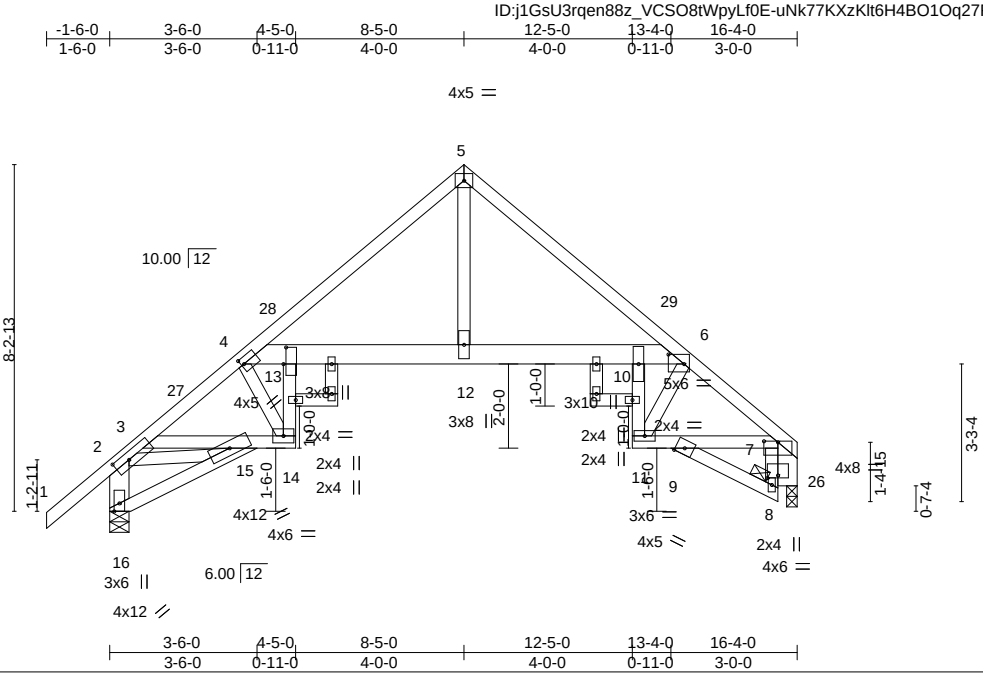

Plate Offsets (X,Y)-- [3:0-4-8,0-2-0], [4:0-0-12,0-1-12], [6:0-4-7,0-2-12], [7:0-4-0,0-0-5], [8:0-3-0,0-0-12], [13:0-4-12,0-0-12]

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 0.43	Vert(LL) 0.23 12-13 >822 240	MT20 244/190
TCDL 7.0		Lumber DOL 1.25	BC 0.88	Vert(CT) -0.26 12-13 >752 180	
BCLL 0.0	*	Rep Stress Incr YES	WB 0.33	Horz(CT) 0.42 26 n/a n/a	
BCDL 10.0		Code FBC2023/TPI2014	Matrix-MS		Weight: 112 lb FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 13-14,10-11,17-18,20-21: 2x4 SP No.3 4-6: 2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS	2x4 SP No.3 *Except* 2-16: 2x6 SP No.2
OTHERS	2x6 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-4-11 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-4-1 oc bracing: 14-15. 10-0-0 oc bracing: 10-12

REACTIONS. (size) 16=0-5-8, 26=0-3-0
Max Horz 16=310(LC 9)
Max Uplift 16=-306(LC 12), 26=-228(LC 12)
Max Grav 16=689(LC 1), 26=551(LC 1)

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

TOP CHORD	2-3=-799/445, 4-24=-875/512, 4-5=-986/528, 5-6=-1036/568, 6-7=-812/524, 2-16=-708/508
BOT CHORD	15-16=-315/347, 14-15=-477/824, 13-14=-952/1656, 4-13=-215/715, 12-13=-273/809, 10-12=-273/809, 6-10=-254/762, 10-11=-640/1150, 9-11=-333/586, 7-9=-179/359, 8-9=-171/258
WEBS	4-14=-1642/943, 5-12=-451/955, 6-11=-1198/682, 2-15=-209/415, 7-26=-592/381

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 8-5-0, Zone2 8-5-0 to 12-7-15, Zone1 12-7-15 to 15-8-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Bearing at joint(s) 16, 26 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=306, 26=228.

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

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758790
4371416	T13	Roof Special	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:01 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-MaIVKgYb53?zvEmab6LHfTXJjUyRGM?78c54P7yAnKa

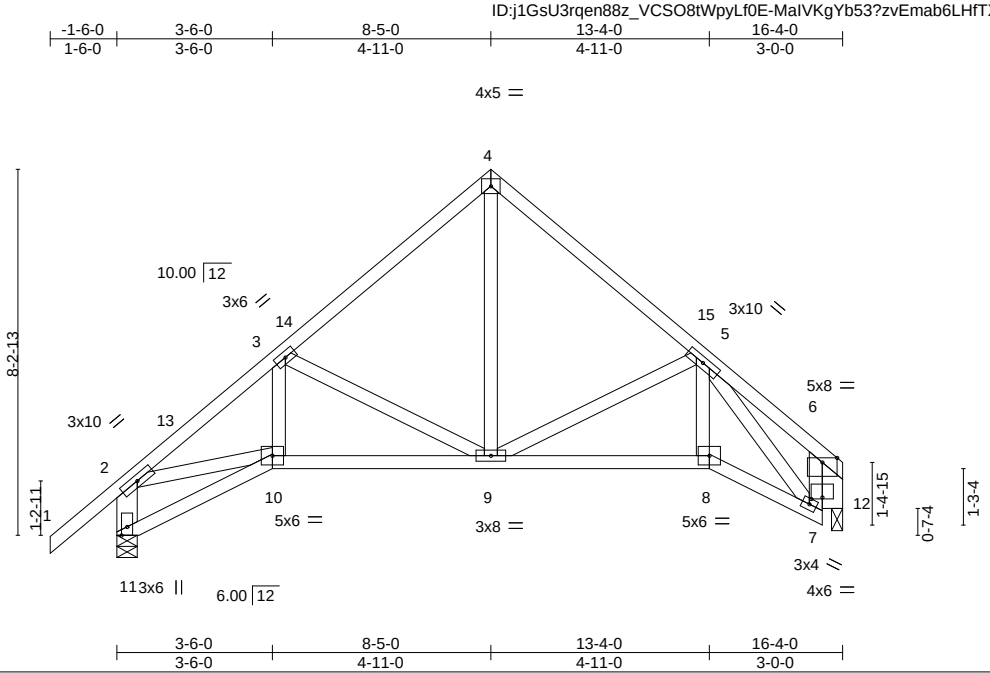

Plate Offsets (X,Y)-- [7:0-3-0,0-0-7]

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	0.39	Vert(LL)	0.03	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.05	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.04	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 108 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 2-11: 2x6 SP No.2, 6-7: 2x4 SP No.2
OTHERS	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 6-0-0 oc bracing.

REACTIONS. (size) 11=0-5-8, 12=0-3-0
Max Horz 11=310(LC 9)
Max Uplift 11=-306(LC 12), 12=-228(LC 12)
Max Grav 11=689(LC 1), 12=551(LC 1)

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

TOP CHORD	2-3=-964/540, 3-4=-580/381, 4-5=-580/422, 5-6=-315/267, 2-11=-679/496, 6-7=-166/324
BOT CHORD	10-11=-300/307, 9-10=-498/852, 8-9=-344/619, 7-8=-383/704
WEBS	3-10=-119/257, 3-9=-462/421, 4-9=-284/467, 5-9=-342/320, 5-8=-124/334, 2-10=-325/691, 5-7=-708/376, 6-12=-586/377

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 8-5-0, Zone2 8-5-0 to 12-7-15, Zone1 12-7-15 to 15-8-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Bearing at joint(s) 11, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=306, 12=228.

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758791
4371416	T14	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:01 2024 Page 1
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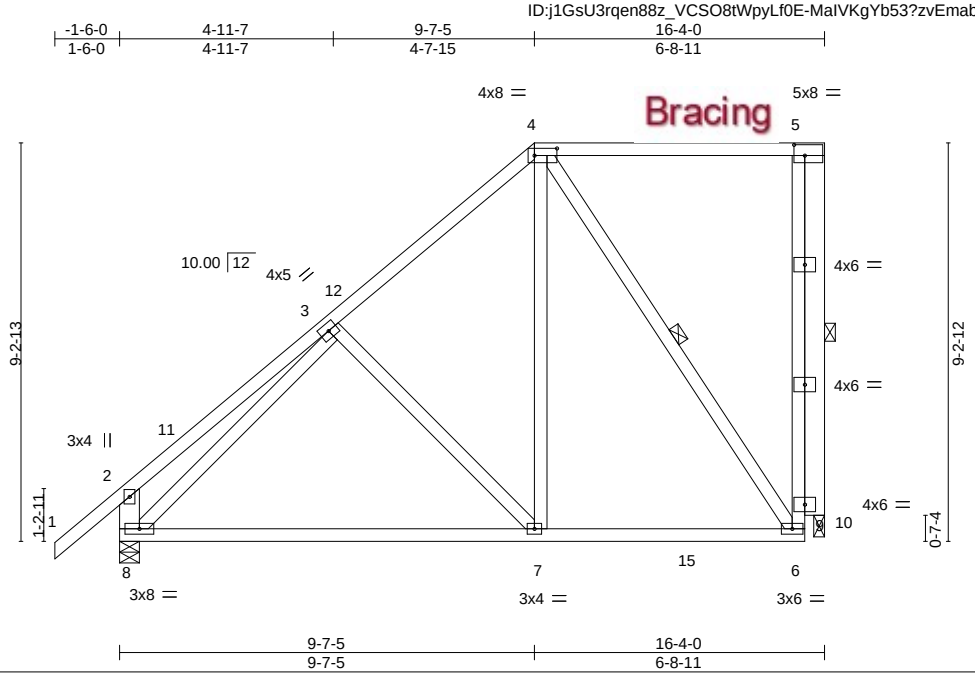

Plate Offsets (X,Y)-- [4:0-6-4,0-2-0], [5:0-3-0,0-3-0]

LOADING (psf)		SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.25	TC	0.42	Vert(LL)	-0.20	7-8	>965	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25	BC	0.73	Vert(CT)	-0.40	7-8	>480	180		
BCLL	0.0 *	Rep Stress Incr YES	WB	0.34	Horz(CT)	-0.01	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014	Matrix-MS							Weight: 137 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 2-8: 2x6 SP No.2
OTHERS	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 8-5-11 oc bracing.
WEBS	1 Row at midpt 4-6, 5-10

REACTIONS. (size) 8=0-5-8, 10=0-3-0
Max Horz 8=487(LC 12)
Max Uplift 8=-255(LC 12), 10=-382(LC 12)
Max Grav 8=763(LC 19), 10=625(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-340/206, 3-4=-486/184, 6-9=-297/524, 5-9=-297/524, 2-8=-399/297
BOT CHORD 7-8=-476/502, 6-7=-237/340
WEBS 3-7=-239/341, 4-7=-182/528, 4-6=-539/371, 3-8=-402/47, 5-10=-626/382

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-7-5, Zone2 9-7-5 to 13-10-4, Zone1 13-10-4 to 15-8-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) 10 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) 8=255, 10=382.

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758792
4371416	T15	Monopitch	12	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:01 2024 Page 1
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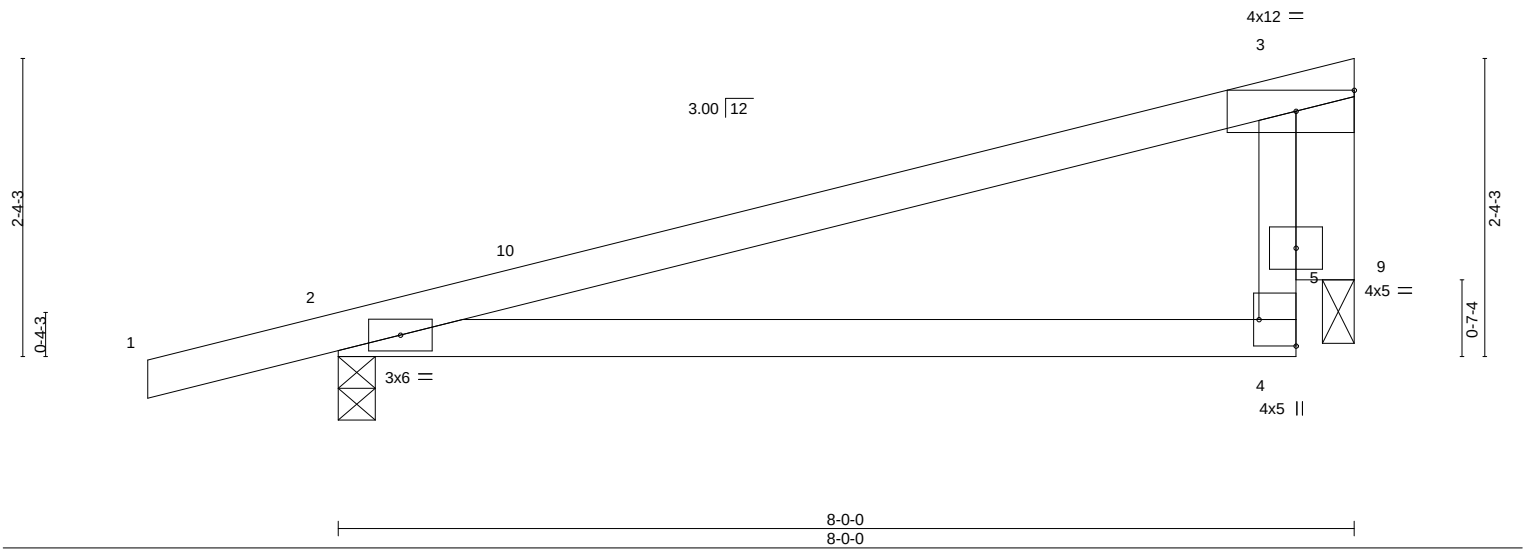

8-0-0
8-0-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.77	Vert(LL)	0.23	4-8	>416	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	0.19	4-8	>499	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.39	Horz(CT)	-0.01	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MR							Weight: 32 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 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 5-11-2 oc bracing.

REACTIONS. (size) 2=0-3-8, 9=0-3-0
Max Horz 2=131(LC 8)
Max Uplift 2=-396(LC 8), 9=-757(LC 8)
Max Grav 2=416(LC 1), 9=813(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-386/591
BOT CHORD 2-4=-641/346
WEBS 3-9=-886/1821

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 7-4-12 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=396, 9=757.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 600 lb down and 1383 lb up at 8-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 4-6=-20
Concentrated Loads (lb)
Vert: 3=-600

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758793
4371416	T16	Half Hip Girder	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:02 2024 Page 1
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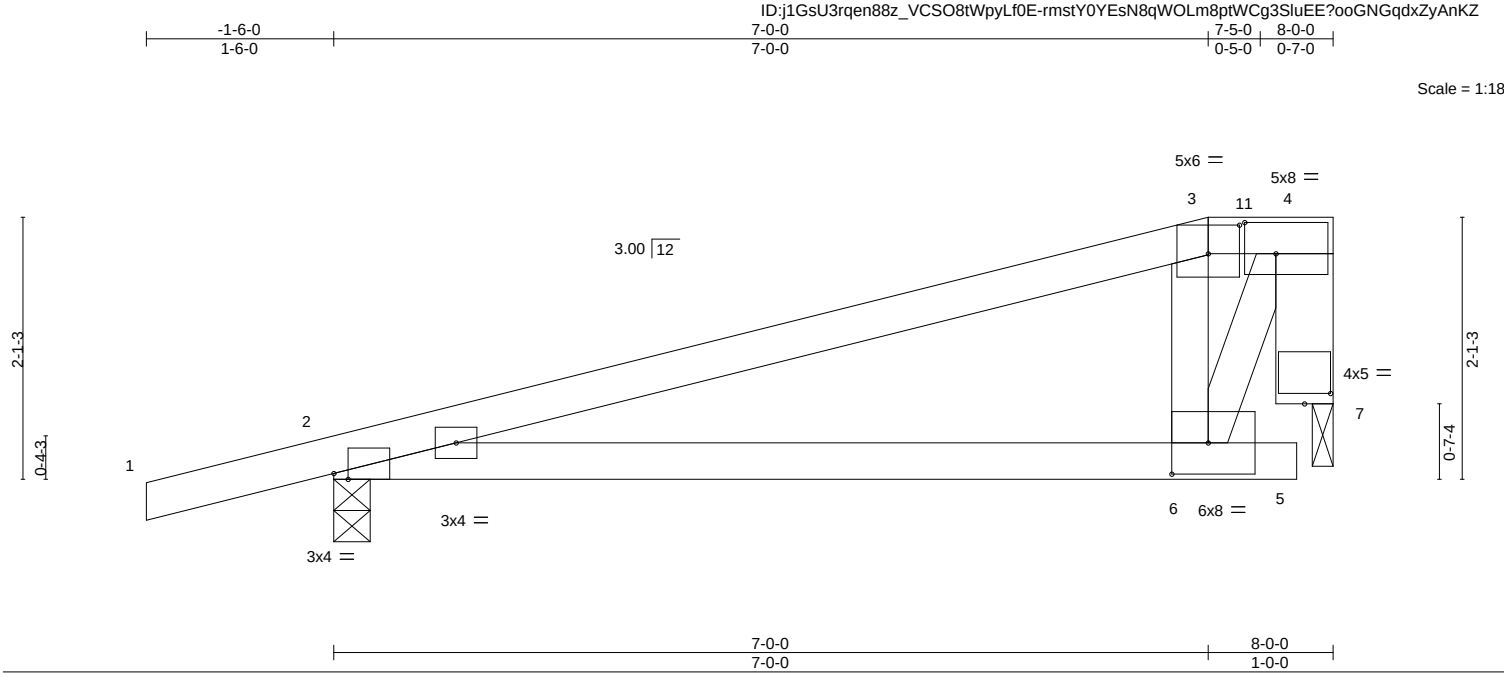

Plate Offsets (X,Y)-- [2:0-1-6,Edge], [3:0-3-0,0-2-12], [4:0-3-0,0-3-0], [6:0-3-8,0-3-0], [7:0-2-8,0-1-0]

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	0.57	Vert(LL)	0.12	6-10	>791	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.17	6-10	>538	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.36	Horz(CT)	-0.01	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 34 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-3-15 oc bracing.

REACTIONS. (size) 2=0-3-8, 7=0-2-0
Max Horz 2=126(LC 25)
Max Uplift 2=-315(LC 4), 7=-608(LC 4)
Max Grav 2=428(LC 1), 7=685(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-430/313, 3-4=-424/368, 4-7=-685/608
BOT CHORD 2-6=-341/392
WEBS 3-6=-397/337, 4-6=-813/936

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=35ft; Cat. II; Exp C; 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) 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) Bearing at joint(s) 7 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 at joint(s) 7.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=315, 7=608.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 134 lb down and 149 lb up at 7-0-0 on top chord, and 343 lb down and 415 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
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: 1-3=-54, 3-4=-54, 5-8=-20

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Date:

December 9,2024

Continued on page 2

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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 3=-116(B) 6=-343(B)

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758794
4371416	T17	Monopitch	8	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:02 2024 Page 1
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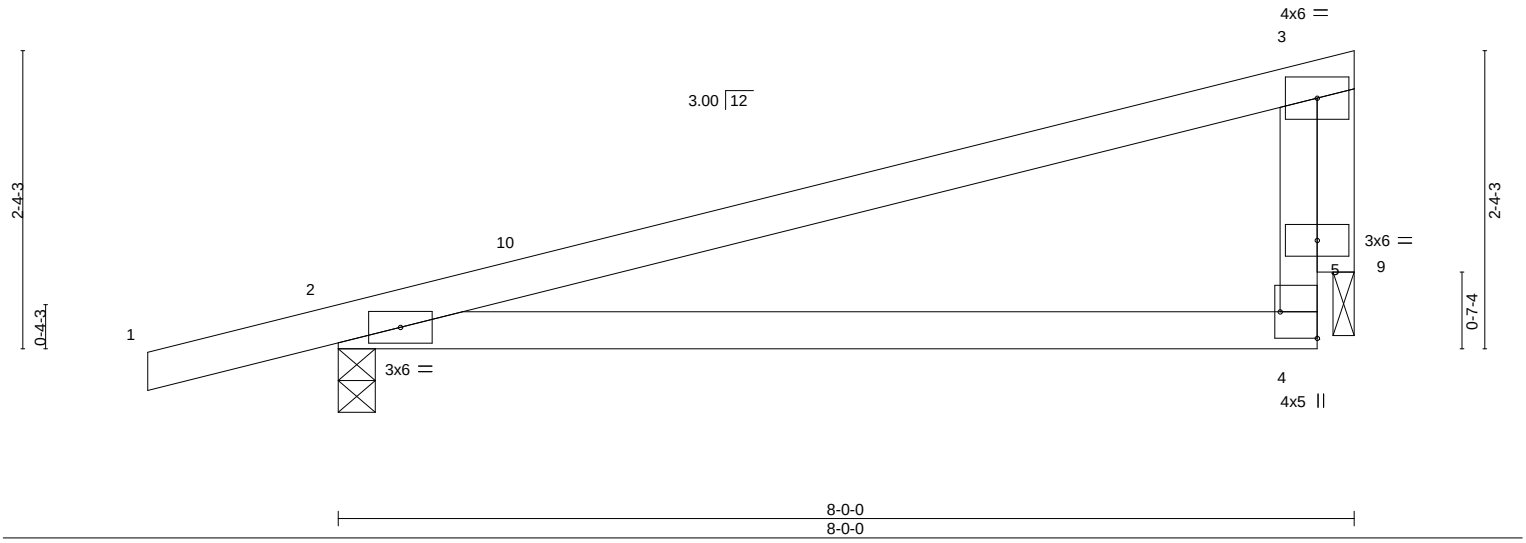

8-0-0
8-0-0

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

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	0.26	4-8	>371	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	0.21	4-8	>445	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MR							Weight: 31 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-1-3 oc bracing.

REACTIONS. (size) 2=0-3-8, 9=0-2-0
Max Horz 2=133(LC 8)
Max Uplift 2=-364(LC 8), 9=-249(LC 8)
Max Grav 2=381(LC 1), 9=260(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 2-4=-297/188
WEBS 3-9=-279/438

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 7-6-12 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=364, 9=249.

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758795
4371416	T18	MONO TRUSS	4	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:03 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-JyQFlLZsdgGh8YwziXOlkucamIYIkDqQcwaBU?yAnKY

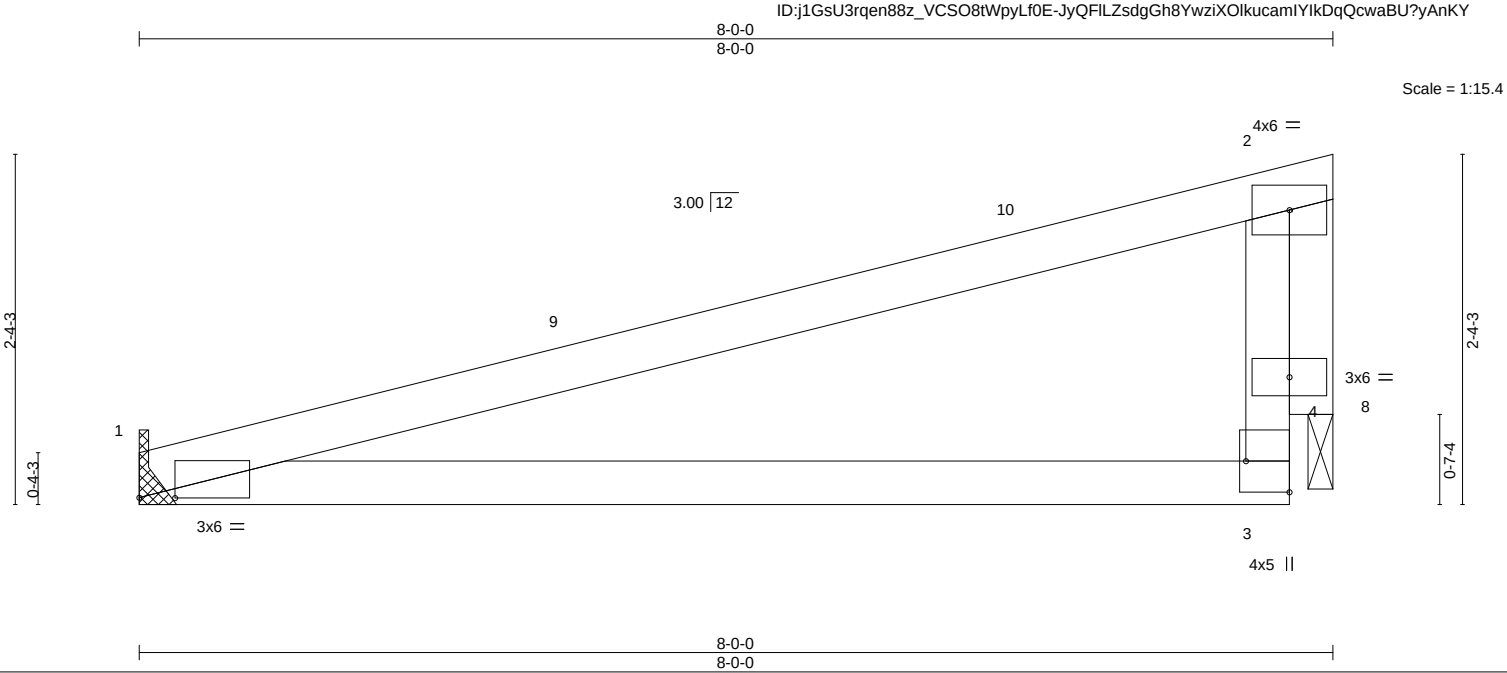

Plate Offsets (X,Y)-- [1:0-2-14,0-0-0], [3:Edge,0-3-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	0.29	3-7	>326	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	0.25	3-7	>385	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.50	Horz(CT)	-0.01	1	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MR							Weight: 28 lb	FT = 20%

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

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

REACTIONS. (size) 1=Mechanical, 8=0-2-0
Max Horz 1=106(LC 8)
Max Uplift 1=-255(LC 8), 8=-259(LC 8)
Max Grav 1=292(LC 1), 8=267(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-231/255
BOT CHORD 1-3=-319/197
WEBS 2-8=-287/449

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 7-6-12 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=255, 8=259.

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758796
4371416	T19	Common Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:03 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-JyQFlLZsdgGh8YwziXOlkucebIWRkGcQcwaBU?yAnKY

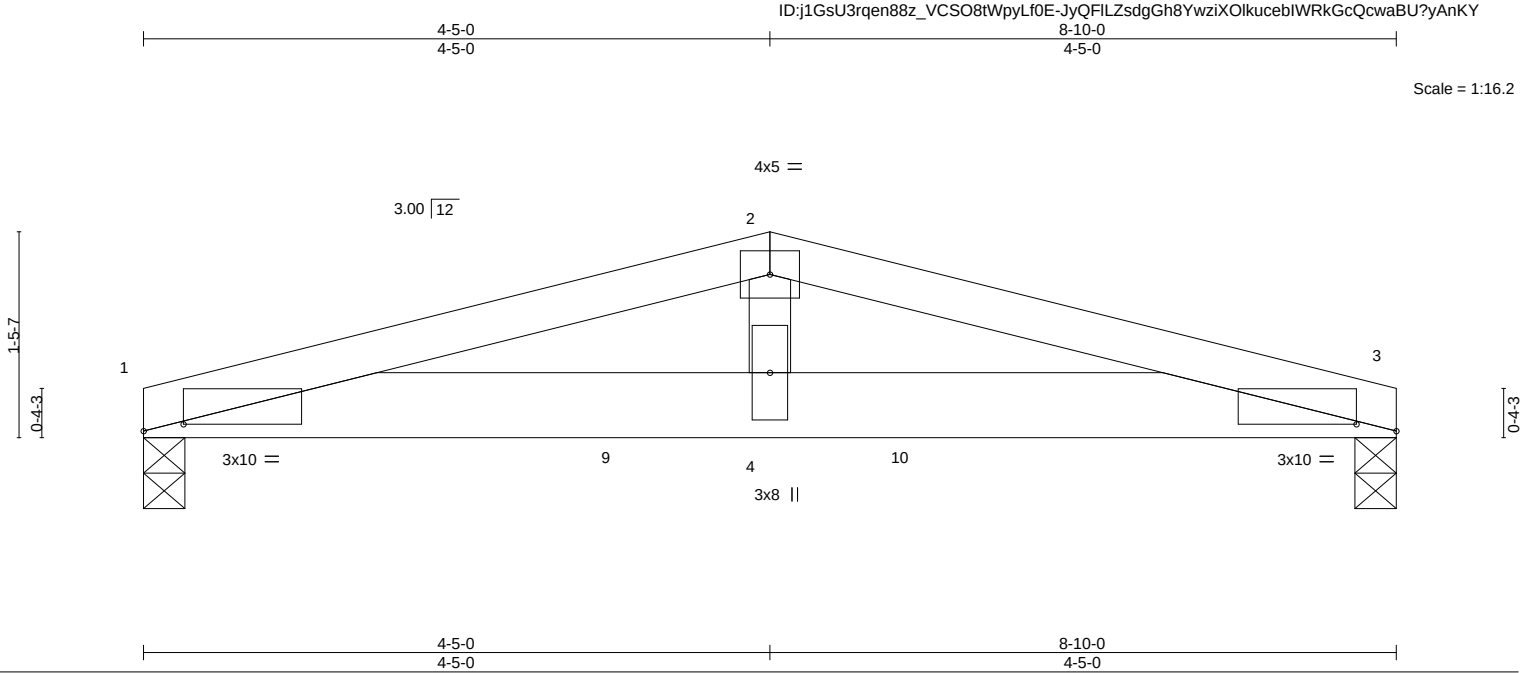

Plate Offsets (X,Y)-- [1:0-3-6,0-0-9], [3:0-3-6,0-0-9]

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	0.50	Vert(LL)	0.12	4-6	>875	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.12	4-8	>909	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.32	Horz(CT)	-0.02	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 35 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-1-8 oc bracing.

REACTIONS. (size) 1=0-3-8, 3=0-3-8
Max Horz 1=27(LC 8)
Max Uplift 1=-746(LC 4), 3=-746(LC 5)
Max Grav 1=871(LC 1), 3=872(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2218/1864, 2-3=-2218/1863
BOT CHORD 1-4=-1786/2147, 3-4=-1786/2147
WEBS 2-4=-728/839

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=35ft; Cat. II; Exp C; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=746, 3=746.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 272 lb down and 275 lb up at 1-4-12, 272 lb down and 275 lb up at 3-4-12, and 272 lb down and 275 lb up at 5-5-4, and 272 lb down and 275 lb up at 7-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-54, 1-3=-20
Concentrated Loads (lb)
Vert: 6=-272(B) 8=-272(B) 9=-272(B) 10=-272(B)

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December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758797
4371416	T19G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:04 2024 Page 1
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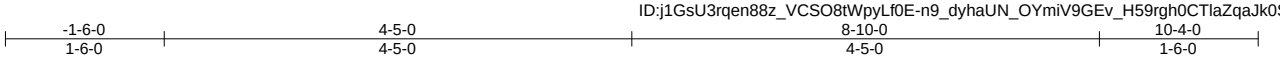

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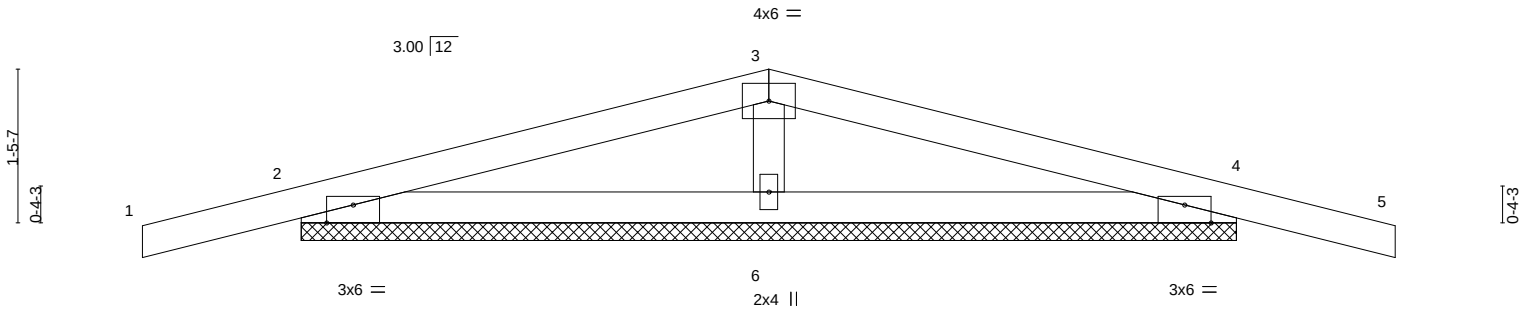

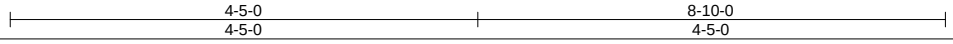

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [4:0-3-0,Edge]

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	0.35	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	0.01	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 33 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) 2=8-10-0, 4=8-10-0, 6=8-10-0
Max Horz 2=38(LC 8)
Max Uplift 2=-204(LC 8), 4=-208(LC 9), 6=-123(LC 12)
Max Grav 2=240(LC 25), 4=240(LC 26), 6=344(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-228/487

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=35ft; Cat. II; Exp C; 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
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) except (jt=lb) 2=204, 4=208, 6=123.

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758798
4371416	T20	Piggyback Base	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:04 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-n9_dyhaUN_OYmiV9GEv_H59kjhyCTchZqaJk0SyAnKX

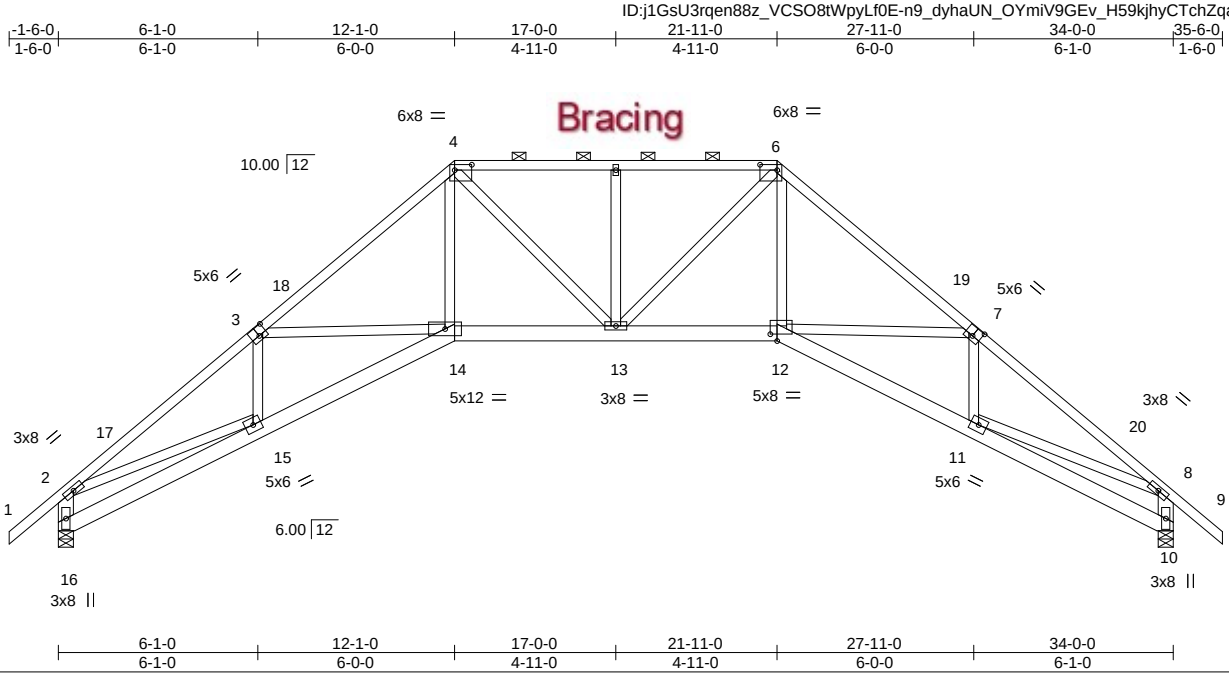

Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [4:0-6-4,0-2-0], [6:0-6-4,0-2-0], [7:0-3-0,0-3-4], [12:0-2-8,0-2-8]

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	0.79	Vert(LL)	0.20	14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.34	13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.38	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 243 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
2-16,8-10: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-11-6 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 6-10-9 oc bracing.

REACTIONS. (size) 16=0-5-8, 10=0-5-8
Max Horz 16=-464(LC 10)
Max Uplift 16=-620(LC 12), 10=-620(LC 13)
Max Grav 16=1334(LC 1), 10=1334(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2689/1276, 3-4=-2540/1076, 4-5=-2042/886, 5-6=-2042/886, 6-7=-2540/850, 7-8=-2689/1002, 2-16=-1345/798, 8-10=-1345/686
BOT CHORD 15-16=-541/648, 14-15=-1155/2315, 13-14=-864/1858, 12-13=-585/1858, 11-12=-652/2226
WEBS 3-14=-335/443, 4-14=-487/1127, 4-13=-360/394, 5-13=-291/268, 6-13=-363/394, 6-12=-270/1091, 7-12=-435/491, 2-15=-689/1877, 8-11=-478/1877

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-10-13, Zone1 1-10-13 to 12-1-0, Zone2 12-1-0 to 17-0-0, Zone1 17-0-0 to 21-11-0, Zone2 21-11-0 to 26-8-11, Zone1 26-8-11 to 35-6-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 16, 10 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) 16=620, 10=620.
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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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758799
4371416	T20G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:06 2024 Page 1
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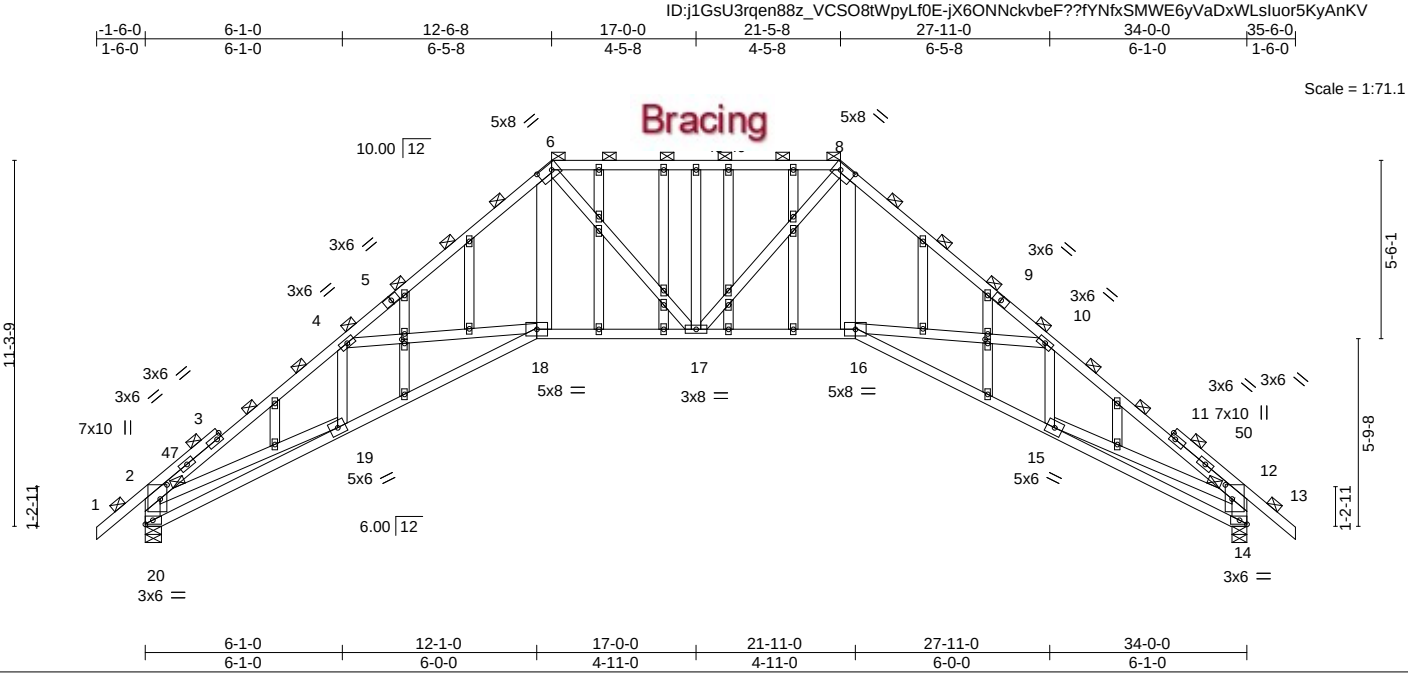

Plate Offsets (X,Y)-- [2:0-5-4,0-2-8], [6:0-5-4,0-2-4], [8:0-5-4,0-2-4], [12:0-5-4,0-2-8], [25:0-1-8,0-1-0], [36:0-1-8,0-1-0]

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	0.68	Vert(LL)	0.22	18	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.37	16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.46	14	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 279 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
5-6,8-9: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
2-5,9-12: 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
6-18,8-16,2-20,12-14: 2x6 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (3-5-2 max.), except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-0-10 oc bracing.

REACTIONS. (size) 20=0-6-0, 14=0-5-8
Max Horz 20=-406(LC 10)
Max Uplift 20=-618(LC 12), 14=-618(LC 13)
Max Grav 20=1334(LC 1), 14=1334(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2974/1466, 4-6=-2684/1173, 6-7=-2004/909, 7-8=-2004/909, 8-10=-2684/942, 10-12=-2974/1091, 2-20=-1505/903, 12-14=-1505/752
BOT CHORD 19-20=-615/857, 18-19=-1359/2573, 17-18=-775/1858, 16-17=-513/1858, 15-16=-753/2501, 14-15=-276/548
WEBS 4-18=-440/536, 6-18=-558/1224, 6-17=-336/360, 7-17=-254/238, 8-17=-337/360, 8-16=-298/1200, 10-16=-493/583, 2-19=-701/1849, 12-15=-512/1849

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-10-13, Zone1 1-10-13 to 12-6-8, Zone2 12-6-8 to 17-4-3, Zone1 17-4-3 to 21-5-8, Zone2 21-5-8 to 26-3-3, Zone1 26-3-3 to 35-6-0 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 studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Bearing at joint(s) 20, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=618, 14=618.

Continued on page 2

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NOTES-

12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758800
4371416	T21	Piggyback Base	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:07 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-BjfmbjcMgvm6d9DkxMShvknCAvuPgvQ?XYYOdnyAnKU

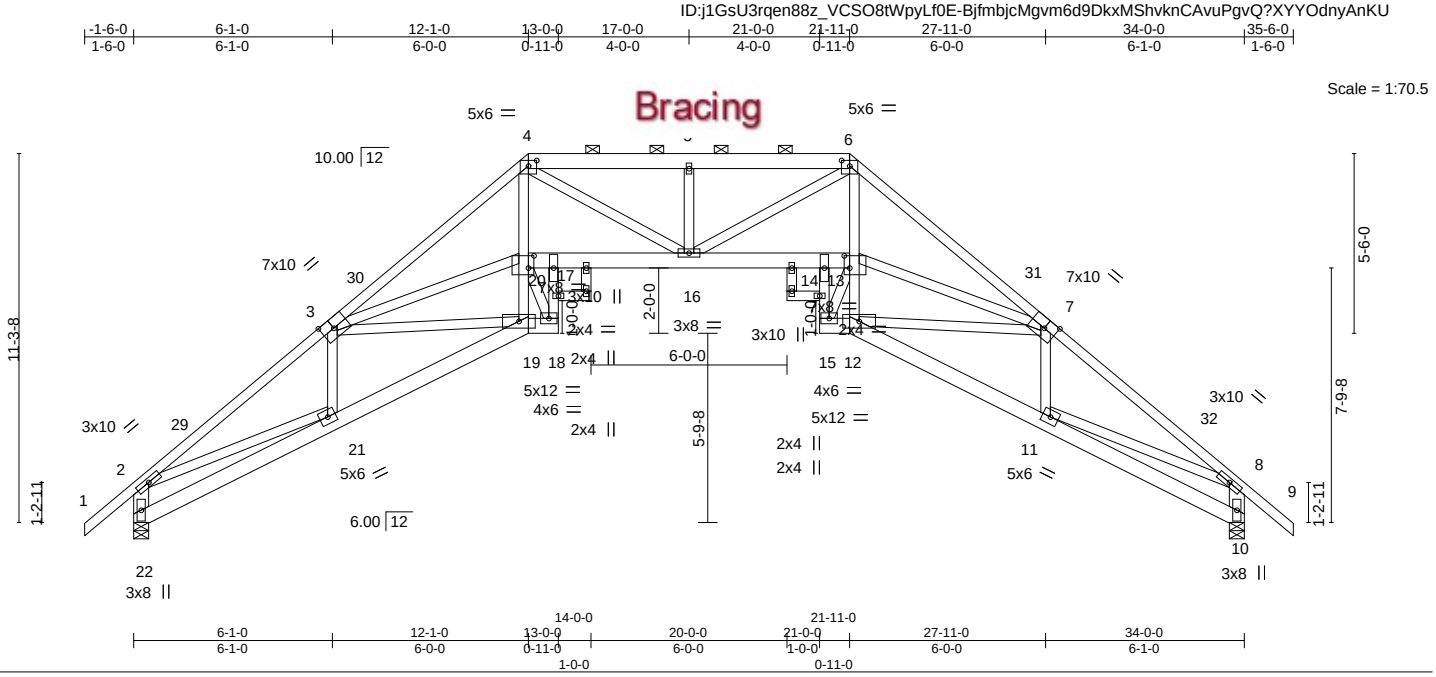

Plate Offsets (X,Y)-- [3:0-4-8,Edge], [4:0-3-0,0-2-1], [6:0-3-0,0-2-1], [7:0-4-8,Edge], [13:0-2-0,0-4-8], [20:0-2-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.97	Vert(LL)	0.40	16-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.70	14-16	>573	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.94	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 281 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 *Except*
4-6: 2x6 SP No.2, 1-3,7-9: 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
17-18,14-15,23-24,26-27: 2x4 SP No.3
13-20: 2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS 2x4 SP No.3 *Except*
4-19,6-12: 2x4 SP No.2, 2-22,8-10: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-9-7 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 6-10-5 oc bracing.

REACTIONS. (size) 22=0-5-8, 10=0-5-8
Max Horz 22=462(LC 11)
Max Uplift 22=-620(LC 12), 10=-620(LC 13)
Max Grav 22=1334(LC 1), 10=1334(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2671/1267, 3-4=-3707/1531, 4-5=-3560/1402, 5-6=-3560/1402, 6-7=-3707/1096, 7-8=-2671/1000, 2-22=-1343/799, 8-10=-1343/689
BOT CHORD 21-22=-546/654, 19-21=-1148/2306, 18-19=-281/610, 17-18=-543/1140, 17-20=-1232/2656, 16-17=-1268/2732, 14-16=-866/2732, 13-14=-846/2656, 14-15=-330/1139, 12-15=-167/611, 11-12=-649/2221, 10-11=-148/254
WEBS 3-21=-254/183, 3-20=-1062/2286, 19-20=-494/1139, 4-20=-693/1519, 12-13=-273/1104, 6-13=-275/1513, 7-13=-730/2285, 7-11=-254/140, 2-21=-673/1849, 8-11=-468/1849, 4-16=-399/1032, 6-16=-686/1032, 5-16=-312/279, 18-20=-1282/589, 13-15=-1281/353, 3-19=-1472/779, 7-12=-1362/498

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-10-13, Zone1 1-10-13 to 12-1-0, Zone2 12-1-0 to 17-0-0, Zone1 17-0-0 to 21-11-0, Zone2 21-11-0 to 26-8-11, Zone1 26-8-11 to 35-6-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 22, 10 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) 22=620, 10=620.
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:

December 9,2024

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758801
4371416	T22	PIGGYBACK BASE	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:08 2024 Page 1
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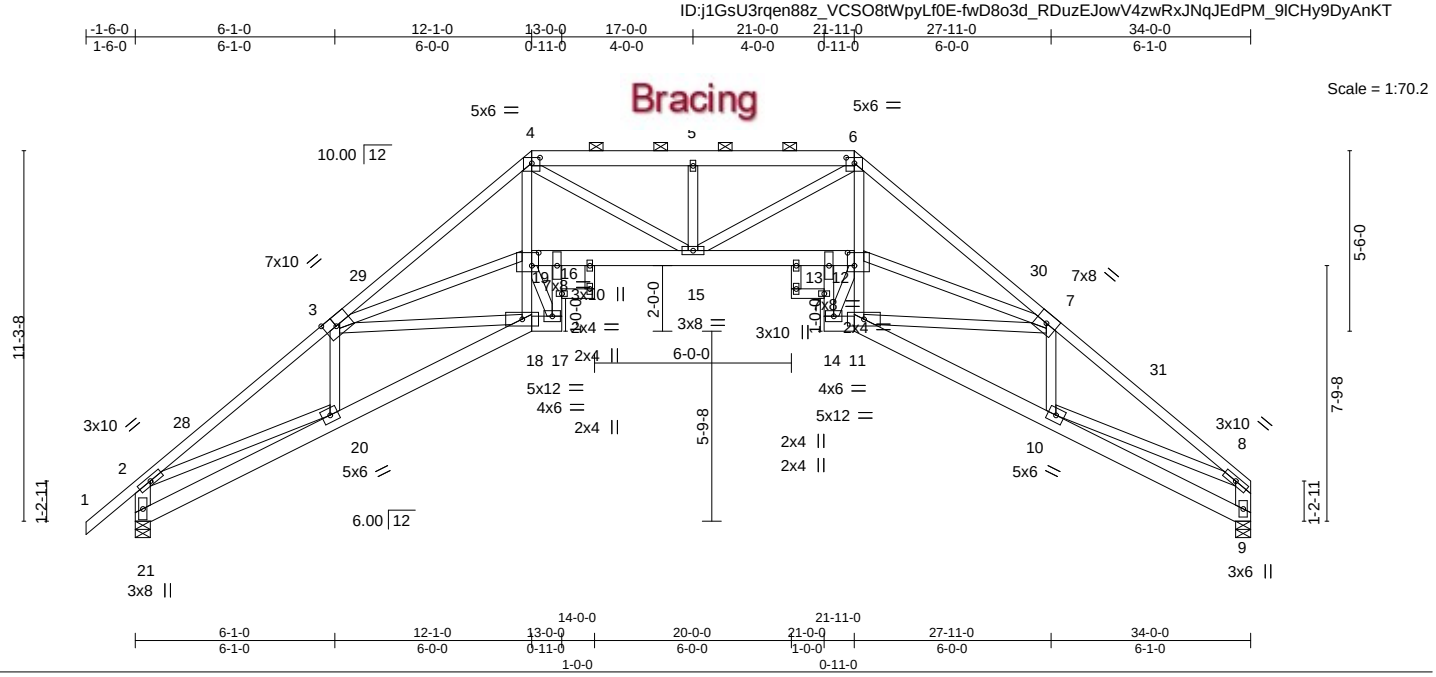

Plate Offsets (X,Y)-- [3:0-4-4,Edge], [4:0-3-0,0-2-1], [6:0-3-0,0-2-1], [12:0-2-8,0-4-12], [19:0-2-8,0-4-12]

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 0.98	Vert(LL) 0.41 15-16 >977 240	MT20 244/190
TCDL 7.0		Lumber DOL 1.25	BC 0.72	Vert(CT) -0.70 15-16 >575 180	
BCLL 0.0	*	Rep Stress Incr YES	WB 0.95	Horz(CT) 0.93 9 n/a n/a	
BCDL 10.0		Code FBC2023/TPI2014	Matrix-MS		Weight: 278 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 *Except*
4-6: 2x6 SP No.2, 1-3: 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
16-17,13-14,22-23,25-26: 2x4 SP No.3
12-19: 2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS 2x4 SP No.3 *Except*
4-18,6-11: 2x4 SP No.2, 2-21,8-9: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-9-3 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 6-8-6 oc bracing.

REACTIONS. (size) 21=0-5-8, 9=0-5-8
Max Horz 21=445(LC 11)
Max Uplift 21=-621(LC 12), 9=-551(LC 13)
Max Grav 21=1337(LC 1), 9=1239(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2677/1309, 3-4=-3719/1592, 4-5=-3573/1459, 5-6=-3573/1459, 6-7=-3732/1158, 7-8=-2694/1083, 2-21=-1346/816, 8-9=-1251/629
BOT CHORD 20-21=-570/615, 18-20=-1197/2255, 17-18=-294/611, 16-17=-569/1141, 16-19=-1297/2665, 15-16=-1335/2741, 13-15=-935/2749, 12-13=-913/2673, 13-14=-350/1128, 11-14=-178/603, 10-11=-812/2261
WEBS 3-20=-255/190, 3-19=-1119/2295, 18-19=-520/1115, 4-19=-724/1519, 11-12=-357/1145, 6-12=-389/1543, 7-12=-791/2308, 7-10=-260/167, 2-20=-706/1853, 8-10=-590/1868, 4-15=-423/1038, 6-15=-696/1027, 5-15=-315/279, 17-19=-1284/617, 12-14=-1263/375, 3-18=-1442/823, 7-11=-1410/601

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-10-13, Zone1 1-10-13 to 12-1-0, Zone2 12-1-0 to 17-0-0, Zone1 17-0-0 to 21-11-0, Zone2 21-11-0 to 26-8-11, Zone1 26-8-11 to 33-9-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 21, 9 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) 21=621, 9=551.
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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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758802
4371416	T23	Piggyback Base	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:08 2024 Page 1
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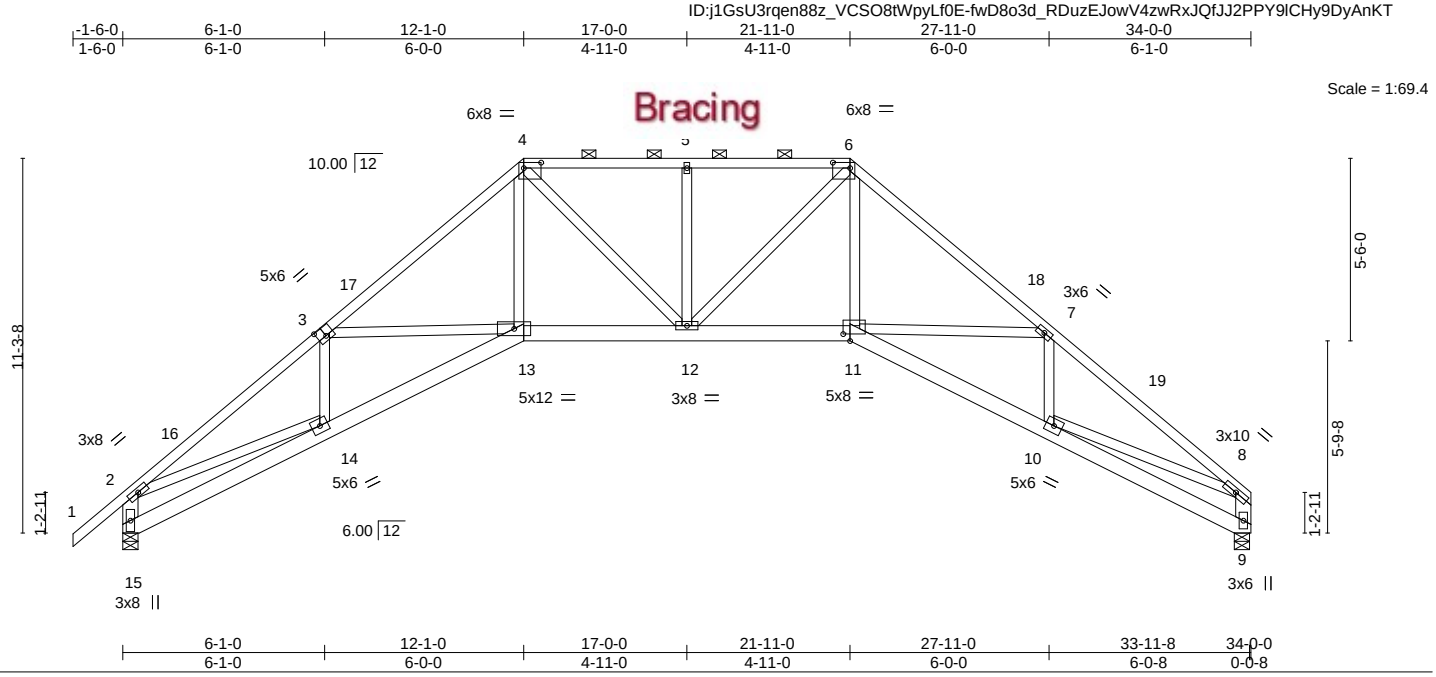

Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [4:0-6-4,0-2-0], [6:0-6-4,0-2-0], [11:0-2-8,0-2-8]

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	0.80	Vert(LL)	0.21	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.34	12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.39	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 240 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
2-15,8-9: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-11-3 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 6-8-8 oc bracing.

REACTIONS. (size) 15=0-5-8, 9=0-5-8
Max Horz 15=446(LC 9)
Max Uplift 15=-620(LC 12), 9=-551(LC 13)
Max Grav 15=1337(LC 1), 9=1239(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2695/1319, 3-4=-2547/1128, 4-5=-2050/927, 5-6=-2050/927, 6-7=-2554/915, 7-8=-2713/1091, 2-15=-1348/816, 8-9=-1251/625
BOT CHORD 14-15=-565/614, 13-14=-1207/2262, 12-13=-909/1863, 11-12=-630/1867, 10-11=-816/2259
WEBS 3-13=-343/436, 4-13=-515/1104, 4-12=-361/397, 5-12=-292/269, 6-12=-363/393, 6-11=-346/1107, 7-11=-438/487, 8-10=-609/1899, 2-14=-723/1881

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-10-13, Zone1 1-10-13 to 12-1-0, Zone2 12-1-0 to 17-0-0, Zone1 17-0-0 to 21-11-0, Zone2 21-11-0 to 26-8-11, Zone1 26-8-11 to 33-9-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 15, 9 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) 15=620, 9=551.
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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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758803
4371416	T24	Monopitch	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:09 2024 Page 1
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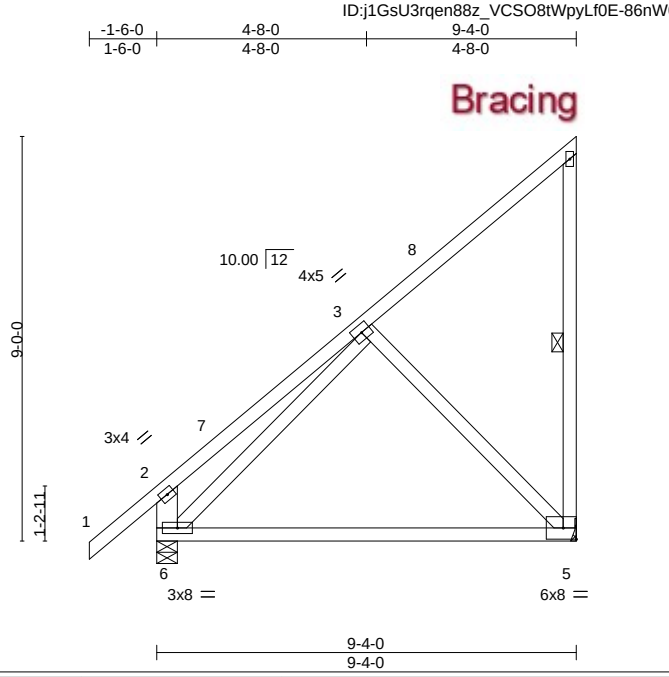

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.22	5-6	>480	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.45	5-6	>241	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.31	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 68 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-5-1 oc bracing.
WEBS 1 Row at midpt 4-5

REACTIONS. (size) 5=Mechanical, 6=0-5-8
Max Horz 6=465(LC 12)
Max Uplift 5=-516(LC 12), 6=-35(LC 12)
Max Grav 5=660(LC 19), 6=434(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-325/189, 4-5=-392/513, 2-6=-328/456
BOT CHORD 5-6=-373/277
WEBS 3-5=-377/519, 3-6=-353/306

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-2-4 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 5=516.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 252 lb down and 220 lb up at 9-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-4=-54, 5-6=-20
Concentrated Loads (lb)
Vert: 4=-200

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758804
4371416	T25	Half Hip Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:09 2024 Page 1
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-1-6-0	4-3-6	7-0-0	11-3-4	15-6-8	20-1-0	24-7-8	28-4-12	32-2-0	36-0-4	40-2-0
1-6-0	4-3-6	2-8-10	4-3-4	4-3-4	4-6-8	4-6-8	3-9-4	3-9-4	3-10-4	4-1-12

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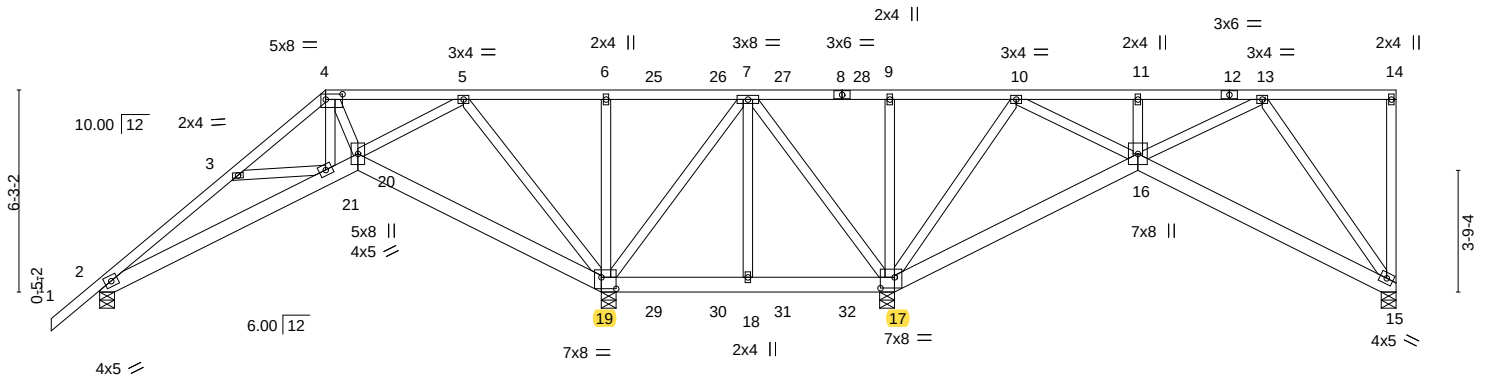

7-0-0	8-0-0	15-6-8	15-9-4	20-1-0	24-4-12	24-7-8	32-2-0	40-2-0
7-0-0	1-0-0	7-6-8	0-2-12	4-3-12	4-3-12	0-2-12	7-6-8	8-0-0

Plate Offsets (X,Y)-- [4:0-6-4,0-2-0], [17:0-5-4,0-4-0], [19:0-5-8,0-4-4]

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	0.36	Vert(LL)	-0.05	15-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.09	15-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.05	15	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 284 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-5-8.
(lb) - Max Horz 2=388(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) except 15=-213(LC 21), 2=-154(LC 25), 19=-1327(LC 8), 17=-1130(LC 4)
Max Grav All reactions 250 lb or less at joint(s) except 15=340(LC 1), 2=417(LC 1), 19=1527(LC 1), 17=1454(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-637/471, 3-4=-327/223, 5-6=-445/613, 6-7=-438/606, 7-9=-317/566, 9-10=-323/572, 10-11=-255/200, 11-13=-255/200
BOT CHORD 2-21=-651/612, 20-21=-274/261, 19-20=-324/195, 18-19=-491/530, 17-18=-491/530, 16-17=-331/159
WEBS 3-21=-300/346, 4-21=-147/254, 5-20=-355/455, 5-19=-606/524, 6-19=-256/256, 7-19=-632/662, 7-18=-374/555, 7-17=-606/574, 10-17=-571/409, 10-16=-297/578, 13-15=-320/279

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; 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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 15, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 213 lb uplift at joint 15, 154 lb uplift at joint 2, 1327 lb uplift at joint 19 and 1130 lb uplift at joint 17.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 110 lb down and 95 lb up at 17-0-12, 110 lb down and 95 lb up at 19-0-12, and 110 lb down and 95 lb up at 21-0-12, and 110 lb down and 90 lb up at 23-0-12 on top chord, and 181 lb down and 166 lb up at 17-0-12, 181 lb down and 166 lb up at 19-0-12, and 181 lb down and 166 lb up at 21-0-12, and 181 lb down and 166 lb up at 23-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
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

Continued on page 2

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Date:

December 9,2024

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

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-54, 4-14=-54, 20-22=-20, 19-20=-20, 17-19=-20, 16-17=-20, 15-16=-20
   Concentrated Loads (lb)
   Vert: 8=-19(F) 25=-19(F) 26=-19(F) 27=-19(F) 29=-155(F) 30=-155(F) 31=-155(F) 32=-155(F)

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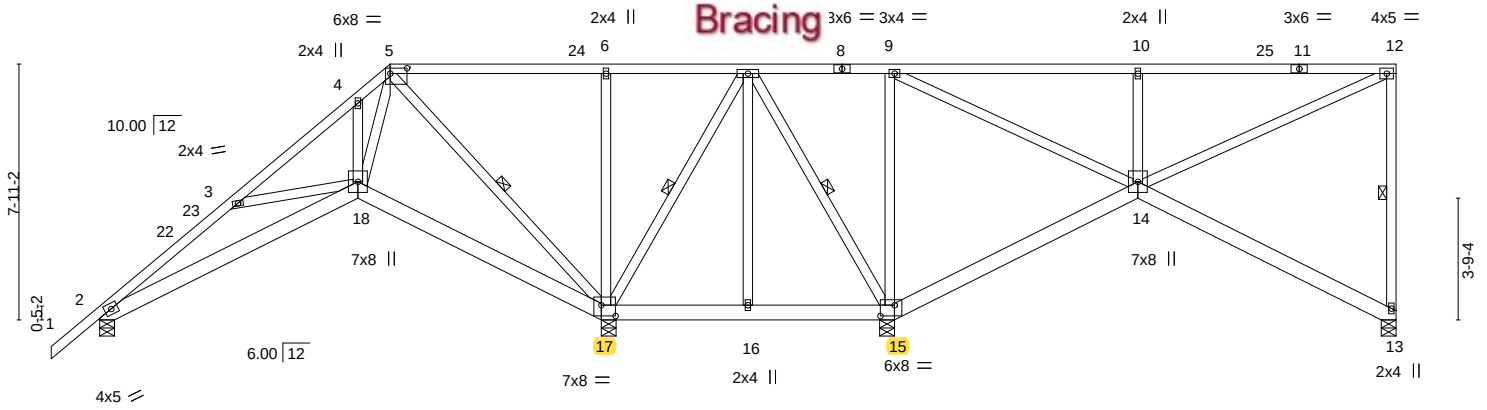
Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758805
4371416	T26	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:10 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-cILvDlfFzq8hUdyJcV0OWMPo662TtJ9SDWm2E5yAnKR

-1-6-0 | 4-3-6 | 8-0-0 | 9-0-0 | 15-6-8 | 20-1-0 | 24-7-8 | 32-2-0 | 40-2-0
1-6-0 | 4-3-6 | 3-8-10 | 1-0-0 | 6-6-8 | 4-6-8 | 4-6-8 | 7-6-8 | 8-0-0

Scale = 1:71.4



8-0-0 | 15-6-8 | 15-9-4 | 20-1-0 | 24-4-12 | 24-7-8 | 32-2-0 | 40-2-0
8-0-0 | 7-6-8 | 0-2-12 | 4-3-12 | 4-3-12 | 0-2-12 | 7-6-8 | 8-0-0

Plate Offsets (X,Y)-- [5:0-6-4,0-2-0], [15:0-5-4,0-4-0], [17:0-5-4,0-4-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	-0.05	13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.09	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.05	13	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 297 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 12-13, 5-17, 7-17, 7-15

REACTIONS. All bearings 0-5-8.
(lb) - Max Horz 2=481(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2 except 13=-212(LC 8), 17=-1028(LC 12), 15=-771(LC 8)
Max Grav All reactions 250 lb or less at joint(s) except 13=346(LC 26), 2=391(LC 1), 17=1214(LC 1), 15=1211(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-550/343, 5-6=-427/523, 6-7=-421/516, 7-9=-266/473, 12-13=-278/234
BOT CHORD 2-18=-653/585, 16-17=-423/266, 15-16=-423/266, 14-15=-577/319
WEBS 3-18=-406/465, 5-18=-421/552, 5-17=-732/659, 6-17=-353/309, 7-17=-264/301, 7-15=-235/252, 9-15=-661/483, 9-14=-422/728, 10-14=-473/419

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-6-3, Zone1 2-6-3 to 9-0-0, Zone2 9-0-0 to 14-8-3, Zone1 14-8-3 to 40-0-4 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) Bearing at joint(s) 13, 2 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) 2 except (jt=lb) 13=212, 17=1028, 15=771.

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Date:

December 9,2024

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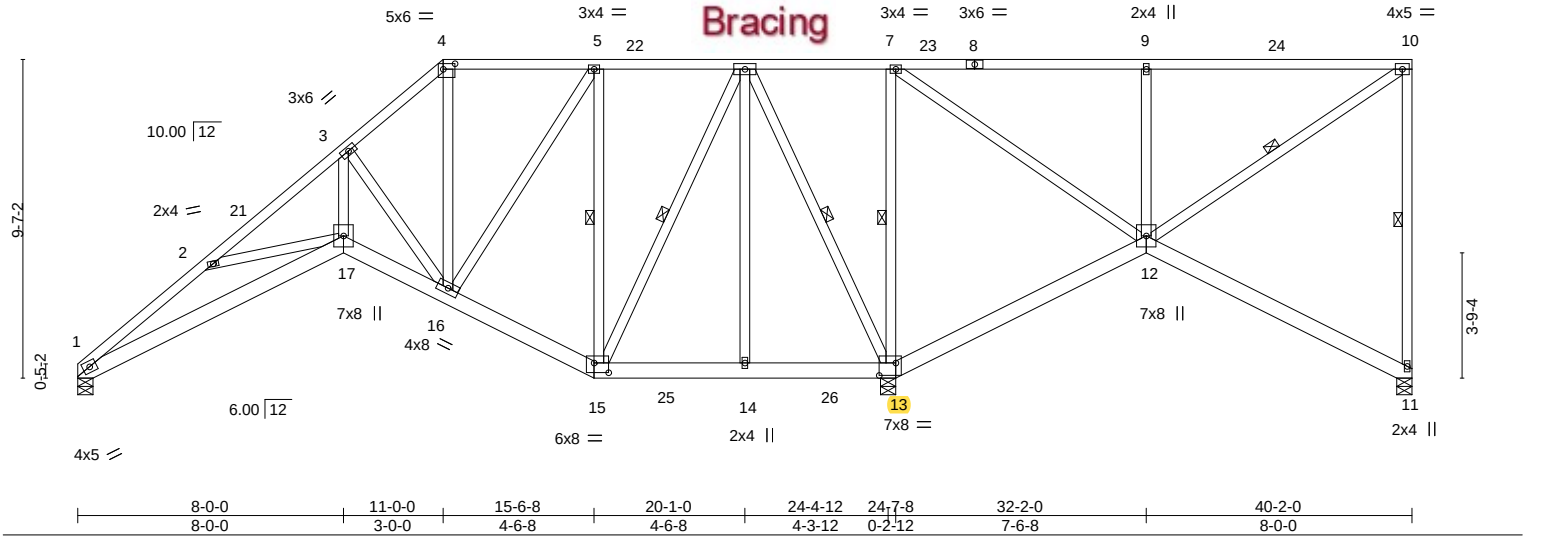
Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758806
4371416	T27	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:11 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-4VvHR4ftk8GY5mXVACXd3axyfWMgcnlbRAWcmYyAnKQ

4-0-14	8-0-0	11-0-0	15-6-8	20-1-0	24-7-8	32-2-0	40-2-0
4-0-14	3-11-2	3-0-0	4-6-8	4-6-8	4-6-8	7-6-8	8-0-0

Scale = 1:69.4



8-0-0	11-0-0	15-6-8	20-1-0	24-4-12	24-7-8	32-2-0	40-2-0
8-0-0	3-0-0	4-6-8	4-6-8	4-3-12	0-2-12	7-6-8	8-0-0

Plate Offsets (X,Y)-- [4:0-4-4,0-2-0], [13:0-6-0,0-4-8], [15:0-5-4,0-3-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.75	Vert(LL)	0.14	17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.15	17-20	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.69	Horz(CT)	-0.12	13	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 324 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 4-6-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 10-11, 5-15, 6-15, 6-13, 7-13, 10-12

REACTIONS. (size) 1=0-5-8, 11=0-5-8, 13=0-5-8
Max Horz 1=514(LC 12)
Max Uplift 1=-160(LC 12), 11=-250(LC 10), 13=-1413(LC 12)
Max Grav 1=626(LC 19), 11=266(LC 12), 13=2599(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1634/1096, 2-3=-1203/731, 3-4=-426/251, 4-5=-293/244, 6-7=-654/954, 7-9=-459/500, 9-10=-459/500, 10-11=-243/320
BOT CHORD 1-17=-1399/1553, 16-17=-885/1075, 14-15=-416/284, 13-14=-416/284, 12-13=-1138/750
WEBS 2-17=-413/453, 3-17=-895/1249, 3-16=-1175/957, 5-16=-455/595, 5-15=-673/612, 6-15=-655/898, 6-14=0/253, 6-13=-1310/839, 7-13=-746/526, 7-12=-405/756, 9-12=-476/420, 10-12=-613/562

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-9-5, Zone1 3-9-5 to 11-0-0, Zone2 11-0-0 to 16-8-3, Zone1 16-8-3 to 40-0-4 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) Bearing at joint(s) 1, 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) 1=160, 11=250, 13=1413.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758807
4371416	T28	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:12 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-YhTfeQgVVROPjw6hkw2scnU7Swi7LAxkgpF9I_yAnKP

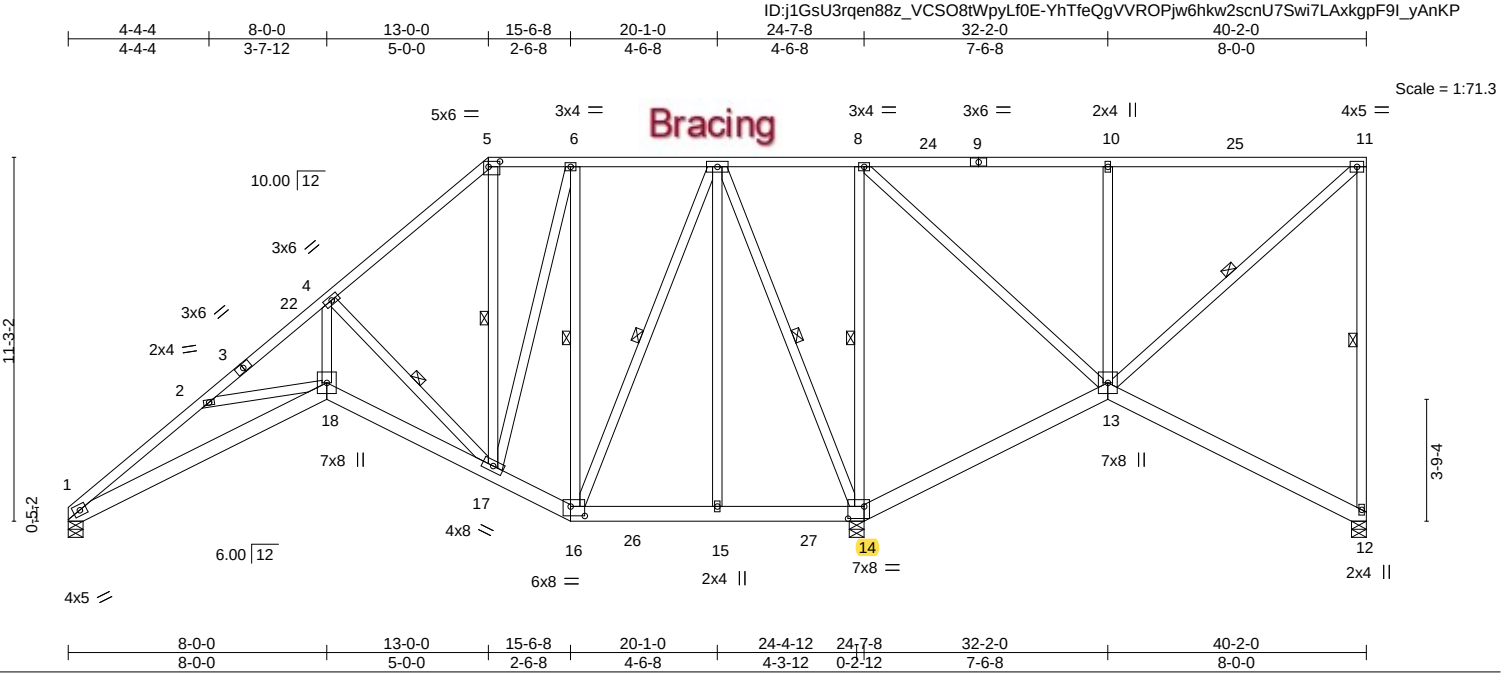

Plate Offsets (X,Y)-- [5:0-4-4,0-2-0], [14:0-6-0,0-4-8], [16:0-5-4,0-3-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.75	Vert(LL)	0.15	18	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.16	18-21	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(CT)	-0.13	14	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 354 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 4-7-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 11-12, 4-17, 5-17, 6-16, 7-16, 7-14, 8-14, 11-13

REACTIONS. (size) 12=0-5-8, 1=0-5-8, 14=0-5-8
Max Horz 1=607(LC 12)
Max Uplift 12=-335(LC 10), 1=-85(LC 12), 14=-1568(LC 12)
Max Grav 12=321(LC 12), 1=606(LC 19), 14=2670(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1564/949, 2-4=-1197/660, 7-8=-635/905, 8-10=-413/483, 10-11=-413/483, 11-12=-300/404
BOT CHORD 1-18=-1368/1514, 17-18=-945/1131, 15-16=-433/291, 14-15=-433/291, 13-14=-1078/729
WEBS 2-18=-340/375, 4-18=-952/1329, 4-17=-1289/1070, 6-17=-505/675, 6-16=-674/636, 7-16=-711/931, 7-15=0/256, 7-14=-1307/893, 8-14=-820/560, 8-13=-401/769, 10-13=-477/420, 11-13=-656/559

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 4-0-15, Zone1 4-0-15 to 13-0-0, Zone2 13-0-0 to 18-8-3, Zone1 18-8-3 to 40-0-4 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) Bearing at joint(s) 12, 1 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) 1 except (jt=lb) 12=335, 14=1568.

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758808
4371416	T29	Piggyback Base	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:12 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-YhTfeQgVVROPjw6hkw2scnU6zwi7LAxkgpF9l_yAnKP

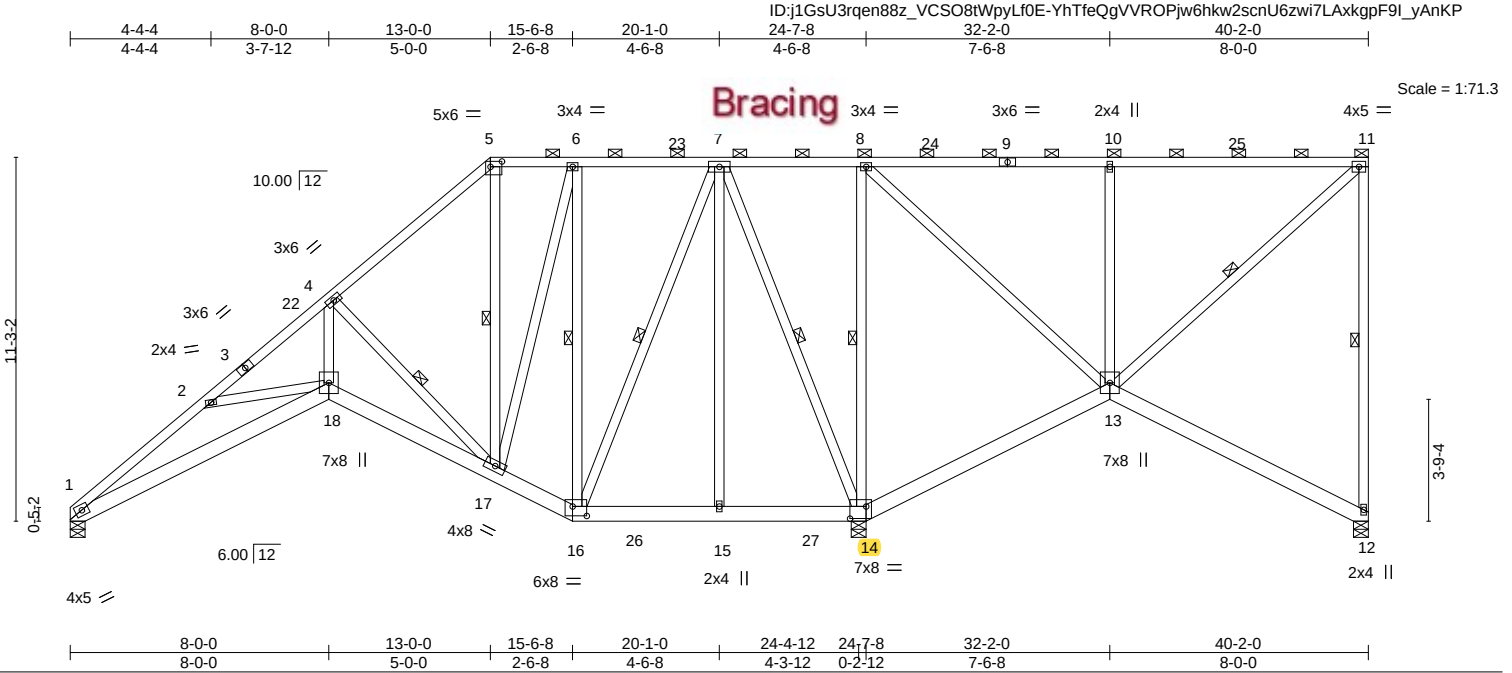

Plate Offsets (X,Y)-- [5:0-4-4,0-2-0], [14:0-6-0,0-4-8], [16:0-5-4,0-3-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.78	Vert(LL)	0.15	18	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.16	18-21	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(CT)	-0.13	14	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 354 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 4-7-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-11.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 11-12, 4-17, 5-17, 6-16, 7-16, 7-14, 8-14, 11-13

REACTIONS. (size) 12=0-5-8, 1=0-5-8, 14=0-5-8
Max Horz 1=607(LC 12)
Max Uplift 12=-335(LC 10), 1=-85(LC 12), 14=-1568(LC 12)
Max Grav 12=321(LC 12), 1=606(LC 19), 14=2670(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1564/949, 2-4=-1197/660, 7-8=-635/905, 8-10=-413/483, 10-11=-413/483, 11-12=-300/404
BOT CHORD 1-18=-1368/1514, 17-18=-945/1131, 15-16=-433/291, 14-15=-433/291, 13-14=-1078/729
WEBS 2-18=-340/375, 4-18=-952/1329, 4-17=-1289/1070, 6-17=-505/675, 6-16=-674/636, 7-16=-711/931, 7-15=0/256, 7-14=-1307/893, 8-14=-820/560, 8-13=-401/769, 10-13=-477/420, 11-13=-656/559

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 4-0-15, Zone1 4-0-15 to 13-0-0, Zone2 13-0-0 to 18-8-3, Zone1 18-8-3 to 40-0-4 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) Bearing at joint(s) 12, 1 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) 1 except (jt=lb) 12=335, 14=1568.
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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Date:

December 9,2024

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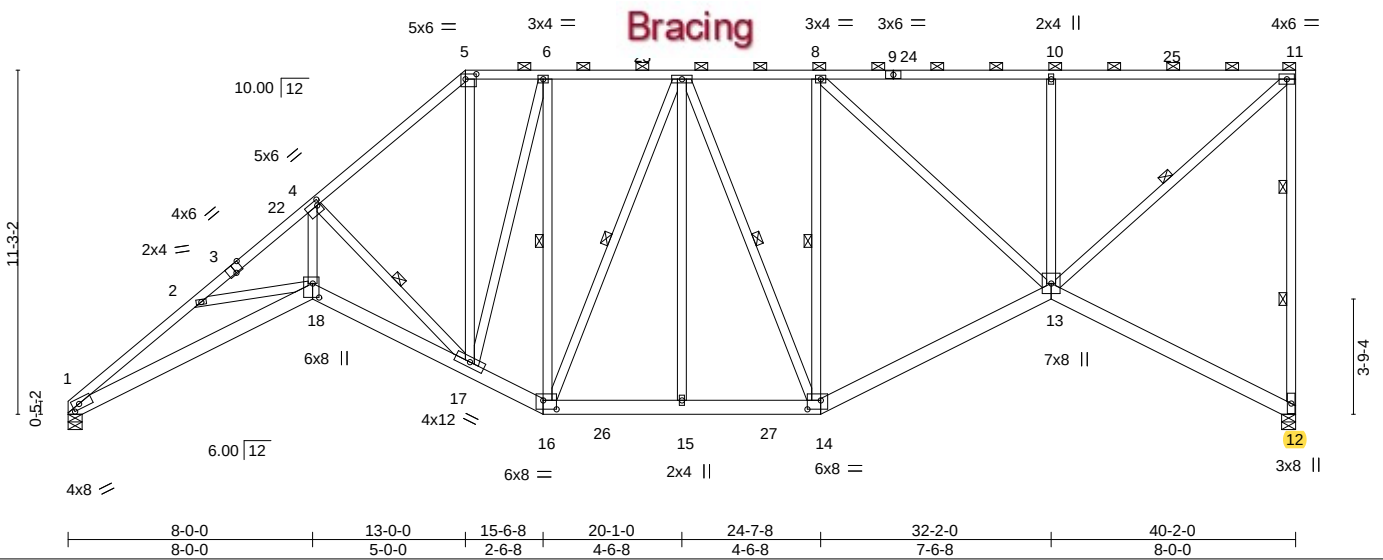
Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758809
4371416	T30	Piggyback Base	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:13 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-0t11rmh7GlWGL4huldZ58?1DmKwh4d6uvT?iqQyAnKO

4-4-4	8-0-0	13-0-0	15-6-8	20-1-0	24-7-8	32-2-0	40-2-0
4-4-4	3-7-12	5-0-0	2-6-8	4-6-8	4-6-8	7-6-8	8-0-0

Scale = 1:75.4



8-0-0	13-0-0	15-6-8	20-1-0	24-7-8	32-2-0	40-2-0
8-0-0	5-0-0	2-6-8	4-6-8	4-6-8	7-6-8	8-0-0

Plate Offsets (X,Y)-- [1:0-2-12,0-2-0], [3:0-3-0,Edge], [4:0-1-4,0-2-0], [5:0-4-4,0-2-0], [14:0-5-4,0-3-8], [16:0-5-4,0-3-8], [18:0-5-8,0-2-8]

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	0.97	Vert(LL)	0.50	17-18	>958	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	-0.60	17-18	>799	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.53	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 354 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
11-12,4-18: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-3-12 max.): 5-11.
BOT CHORD Rigid ceiling directly applied or 4-1-3 oc bracing.
WEBS 1 Row at midpt 4-17, 6-16, 7-16, 7-14, 8-14, 11-13
2 Rows at 1/3 pts 11-12

REACTIONS. (size) 12=0-5-8, 1=0-5-8
Max Horz 1=607(LC 12)
Max Uplift 12=-826(LC 9), 1=-688(LC 12)
Max Grav 12=1622(LC 2), 1=1622(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4859/2985, 2-4=-4705/2776, 4-5=-2035/1078, 5-6=-1519/931, 6-7=-1448/844, 7-8=-1457/733, 8-10=-1506/772, 10-11=-1506/772, 11-12=-1497/846
BOT CHORD 1-18=-3072/4105, 17-18=-2756/4030, 16-17=-946/1654, 15-16=-822/1534, 14-15=-822/1534, 13-14=-824/1687
WEBS 2-18=-202/280, 4-18=-2477/3720, 4-17=-3053/2257, 5-17=-496/1089, 6-17=-369/476, 6-16=-473/498, 7-16=-291/234, 7-15=0/258, 7-14=-269/242, 8-14=-415/367, 10-13=-475/419, 11-13=-1032/2017

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 4-0-15, Zone1 4-0-15 to 13-0-0, Zone2 13-0-0 to 18-8-3, Zone1 18-8-3 to 40-0-4 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) Bearing at joint(s) 12, 1 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) 12=826, 1=688.
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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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	T31	Hip Girder	1	2	T35758810

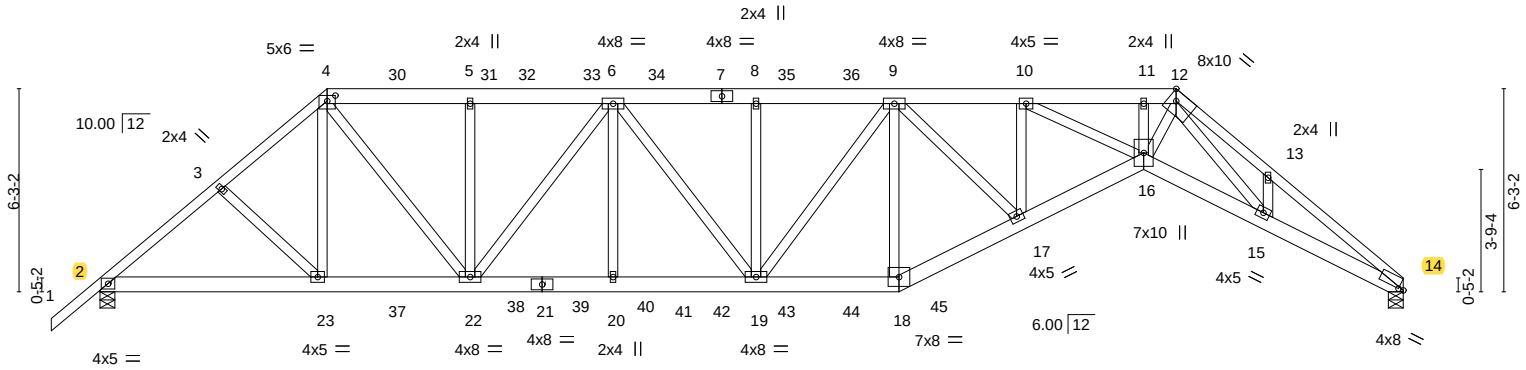
Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:15 2024 Page 1

ID:j1GsU3rqen88z_VCSO8tWpyLf0E-yG8nGSjNoMm_aOrGP2bZDQ6fY7dbYaDBMnUpvJyAnKM

-1-6-0	3-8-15	7-0-0	11-4-14	15-9-12	20-2-10	24-7-8	28-4-12	32-2-0	33-2-0	36-0-0	40-2-0
1-6-0	3-8-15	3-3-1	4-4-14	4-4-14	4-4-14	4-4-14	3-9-4	3-9-4	1-0-0	2-10-0	4-2-0

Scale = 1:71.0



7-0-0	11-4-14	15-9-12	20-2-10	24-7-8	28-4-12	32-2-0	36-0-0	40-2-0
7-0-0	4-4-14	4-4-14	4-4-14	4-4-14	3-9-4	3-9-4	3-10-0	4-2-0

Plate Offsets (X,Y)-- [4:0-3-0,0-2-1], [12:Edge,0-3-8], [14:0-1-14,0-0-4]

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	0.63	Vert(LL)	0.46	17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.53	16-17	>912	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.36	14	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 617 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
4-7,7-12: 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
14-16: 2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS 2x4 SP No.3 *Except*
12-16: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-8-10 oc bracing.

REACTIONS. (size) 14=0-5-8, 2=0-5-8
Max Horz 2=238(LC 5)
Max Uplift 14=-1924(LC 9), 2=-2448(LC 8)
Max Grav 14=2883(LC 1), 2=3281(LC 1)

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

TOP CHORD 2-3=-4776/3617, 3-4=-4642/3611, 4-5=-5059/3950, 5-6=-5058/3949, 6-8=-6456/4776, 8-9=-6456/4776, 9-10=-7402/5156, 10-11=-9950/6635, 11-12=-9929/6622, 12-13=-8310/5674, 13-14=-8452/5561
BOT CHORD 2-23=-2862/3621, 22-23=-2786/3521, 20-22=-4597/6010, 19-20=-4597/6010, 18-19=-4421/6249, 17-18=-4892/6934, 16-17=-5671/8287, 15-16=-5204/8071, 14-15=-4482/6957
WEBS 3-23=-216/263, 4-23=-587/820, 4-22=-2042/2582, 5-22=-319/366, 6-22=-1598/1145, 6-20=-269/431, 6-19=-409/763, 8-19=-252/304, 9-19=-671/699, 9-18=-1717/1414, 9-17=-961/1686, 10-17=-1753/1081, 10-16=-1674/2885, 11-16=-263/437, 12-16=-4409/6441, 12-15=-1420/1278, 13-15=-258/363

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 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=35ft; Cat. II; Exp C; 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.

Continued on page 2

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NOTES-

9) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=1924, 2=2448.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 110 lb down and 99 lb up at 7-0-0, 110 lb down and 95 lb up at 9-0-12, 110 lb down and 95 lb up at 11-0-12, 110 lb down and 95 lb up at 13-0-12, 110 lb down and 95 lb up at 15-0-12, 110 lb down and 95 lb up at 17-0-12, 110 lb down and 95 lb up at 19-0-12, and 110 lb down and 95 lb up at 21-0-12, and 110 lb down and 95 lb up at 23-0-12 on top chord, and 508 lb down and 452 lb up at 7-0-0, 181 lb down and 166 lb up at 9-0-12, 181 lb down and 166 lb up at 11-0-12, 181 lb down and 166 lb up at 13-0-12, 181 lb down and 166 lb up at 15-0-12, 181 lb down and 166 lb up at 17-0-12, 181 lb down and 166 lb up at 19-0-12, 181 lb down and 166 lb up at 21-0-12, and 181 lb down and 166 lb up at 23-0-12, and 1278 lb down and 740 lb up at 24-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

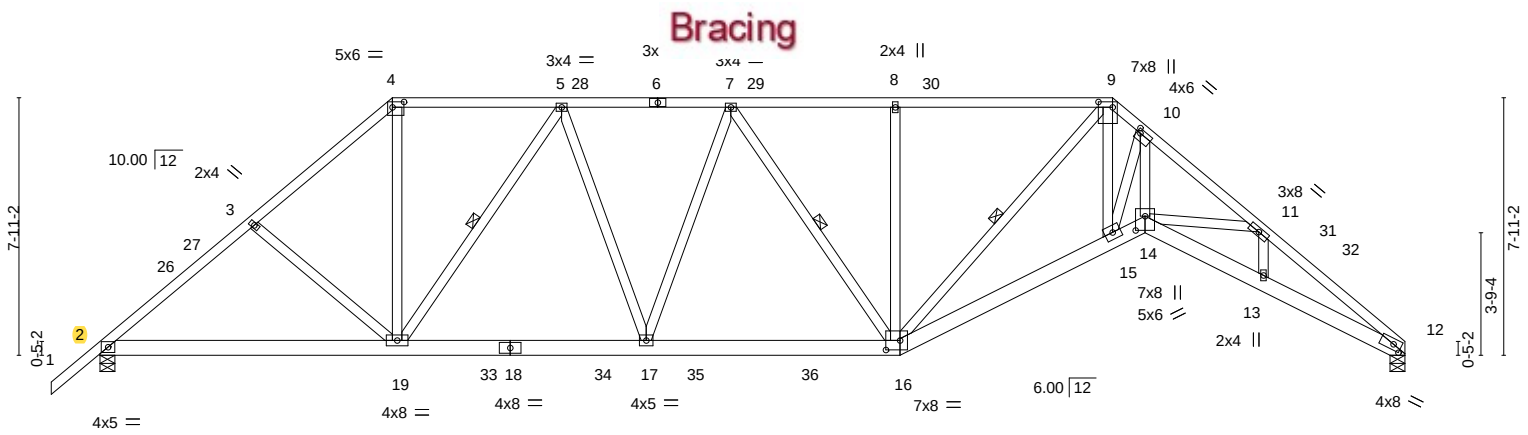
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-12=-54, 12-14=-54, 18-27=-20, 16-18=-20, 16-24=-20
Concentrated Loads (lb)
Vert: 4=-19(B) 7=-19(B) 23=-423(B) 30=-19(B) 31=-19(B) 32=-19(B) 33=-19(B) 34=-19(B) 35=-19(B) 36=-19(B) 37=-155(B) 38=-155(B) 39=-155(B) 40=-155(B) 41=-155(B) 42=-155(B) 43=-155(B) 44=-155(B) 45=-1278(B)

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758811
4371416	T32	Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:15 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-yG8nGSjNoMm_aOrGP2bZDQ6fv7Z8YZZBMnUpvJyAnKM

-1-6-0	4-8-15	9-0-0	14-2-8	19-5-0	24-7-8	31-2-0	32-2-0	35-9-12	40-2-0
1-6-0	4-8-15	4-3-1	5-2-8	5-2-8	5-2-8	6-6-8	1-0-0	3-7-12	4-4-4

Scale = 1:70.9



9-0-0	16-9-12	24-7-8	31-2-0	32-2-0	35-9-12	40-2-0
9-0-0	7-9-12	7-9-12	6-6-8	1-0-0	3-7-12	4-4-4

Plate Offsets (X,Y)-- [4:0-4-4,0-2-0], [9:0-2-0,0-5-4], [10:0-1-4,0-1-8], [12:0-3-0,0-2-0], [14:0-5-4,0-3-8], [16:0-5-4,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.35	14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.99	Vert(CT)	-0.60	14	>808	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.45	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 284 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
10-14,9-15: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-19, 7-16, 9-16

REACTIONS. (size) 12=0-5-8, 2=0-5-8
Max Horz 2=299(LC 9)
Max Uplift 12=-693(LC 13), 2=-755(LC 12)
Max Grav 12=1630(LC 2), 2=1715(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2255/974, 3-4=-2120/946, 4-5=-1591/816, 5-7=-2186/959, 7-8=-2126/997, 8-9=-2121/991, 9-10=-3447/1405, 10-11=-4659/1712, 11-12=-4778/1898
BOT CHORD 2-19=-835/1709, 17-19=-930/2040, 16-17=-977/2213, 15-16=-1097/3143, 14-15=-1284/3813, 13-14=-1498/4071, 12-13=-1474/3984
WEBS 3-19=-286/317, 4-19=-397/1132, 5-19=-846/535, 5-17=-183/477, 8-16=-348/313, 9-16=-973/228, 10-14=-1072/3332, 11-14=-332/319, 9-15=-892/2741, 10-15=-2776/1025

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-6-3, Zone1 2-6-3 to 9-0-0, Zone2 9-0-0 to 14-8-3, Zone1 14-8-3 to 31-2-0, Zone2 31-2-0 to 36-10-3, Zone1 36-10-3 to 40-2-0 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) The Fabrication Tolerance at joint 9 = 16%
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=693, 2=755.

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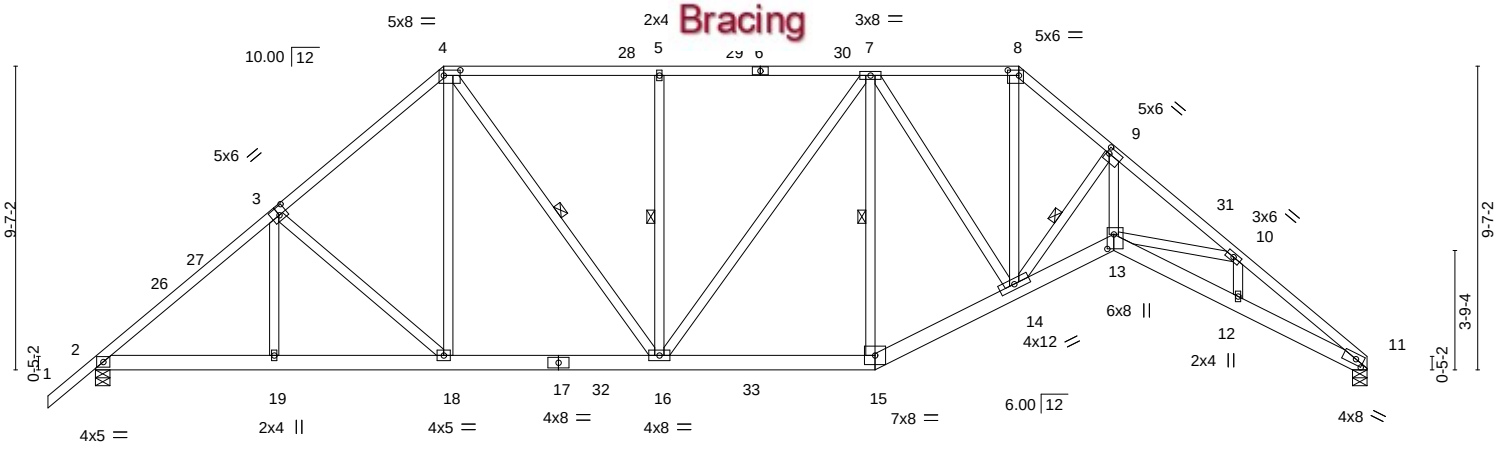
Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758812
4371416	T33	Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:16 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-QSiAUoj0ZgurCYQTzI7omdeqfXwxH?iKbRDNRlyAnKL

-1-6-0	5-7-12	11-0-0	17-9-12	24-7-8	29-2-0	32-2-0	36-1-2	40-2-0
1-6-0	5-7-12	5-4-4	6-9-12	6-9-12	4-6-8	3-0-0	3-11-2	4-0-14

Scale = 1:72.8



5-7-12	11-0-0	17-9-12	24-7-8	29-2-0	32-2-0	36-1-2	40-2-0
5-7-12	5-4-4	6-9-12	6-9-12	4-6-8	3-0-0	3-11-2	4-0-14

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

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	0.60	Vert(LL)	-0.33	13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.56	13	>863	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.42	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 301 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
9-13: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 4-16, 5-16, 7-15, 9-14

REACTIONS. (size) 11=0-5-8, 2=0-5-8
Max Horz 2=359(LC 11)
Max Uplift 11=-684(LC 13), 2=-746(LC 12)
Max Grav 11=1638(LC 2), 2=1719(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2327/946, 3-4=-1994/915, 4-5=-1839/878, 5-7=-1839/878, 7-8=-1926/903, 8-9=-2512/1094, 9-10=-4762/1704, 10-11=-4760/1863
BOT CHORD 2-19=-802/1736, 18-19=-802/1733, 16-18=-640/1473, 15-16=-658/1753, 14-15=-737/1989, 13-14=-1138/4049, 12-13=-1483/4072, 11-12=-1448/3959
WEBS 3-18=-495/388, 4-18=-219/578, 4-16=-432/674, 5-16=-404/359, 7-15=-681/358, 7-14=-41/366, 8-14=-552/1443, 9-14=-3002/1116, 9-13=-1119/3719, 10-13=-298/293

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-6-3, Zone1 2-6-3 to 11-0-0, Zone2 11-0-0 to 16-8-3, Zone1 16-8-3 to 29-2-0, Zone2 29-2-0 to 34-10-3, Zone1 34-10-3 to 40-2-0 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) 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) 11=684, 2=746.

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Date:

December 9,2024

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758813
4371416	T34	Roof Special	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:17 2024 Page 1
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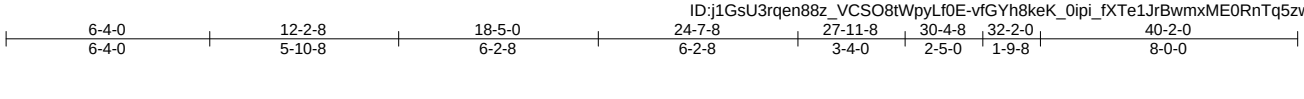

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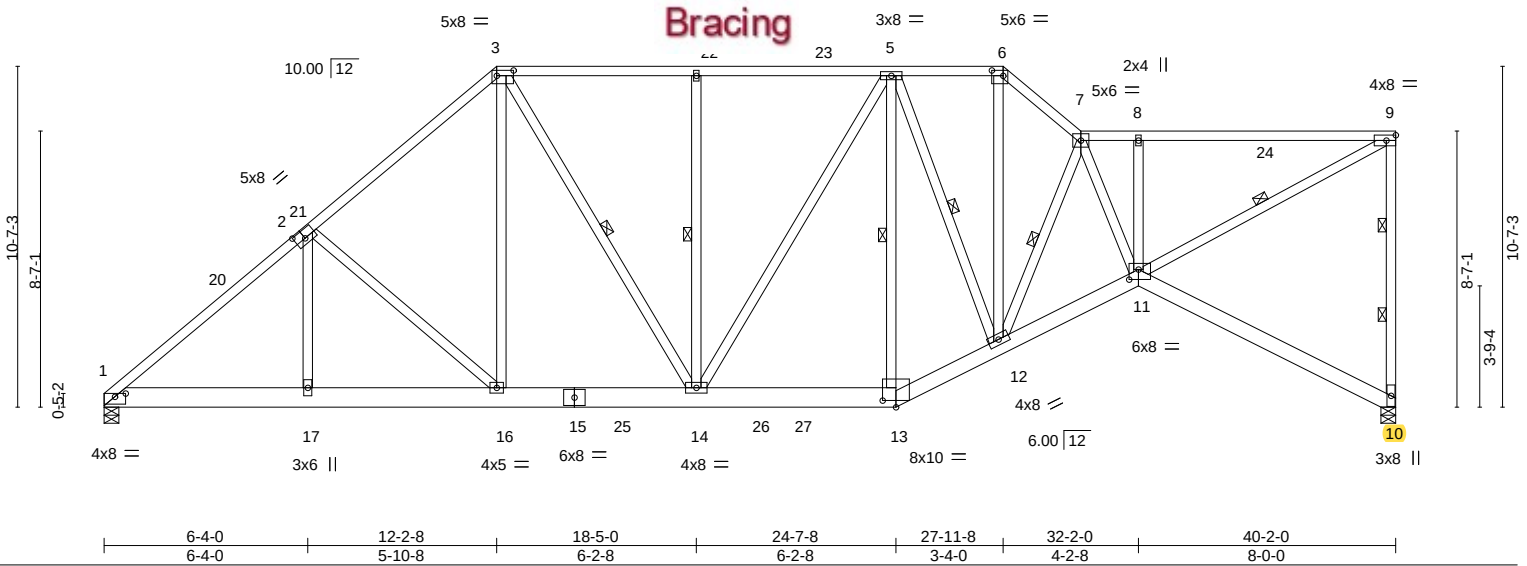

Plate Offsets (X,Y)-- [1:0-4-0,0-1-4], [2:0-3-12,0-3-0], [3:0-6-4,0-2-0], [6:0-4-4,0-2-0], [11:0-3-8,0-3-12], [13:0-5-0,0-2-8]

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	0.90	Vert(LL)	0.19	13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25	BC	0.56	Vert(CT)	-0.30	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr NO	WB	0.91	Horz(CT)	0.20	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014	Matrix-MS							Weight: 352 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	7-9: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
BOT CHORD	2x8 SP 2400F 2.0E *Except*
	11-13,10-11: 2x6 SP No.2
WEBS	2x4 SP No.3 *Except*
	9-11: 2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-3-5 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
	7-4-9 oc bracing: 12-13
	6-4-5 oc bracing: 11-12.
WEBS	1 Row at midpt 3-14, 4-14, 5-13, 5-12, 7-12, 9-11
	2 Rows at 1/3 pts 9-10

REACTIONS. (size) 10=0-5-8, 1=0-5-8
Max Horz 1=506(LC 12)
Max Uplift 10=-864(LC 9), 1=-675(LC 12)
Max Grav 10=1852(LC 2), 1=1854(LC 2)

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

TOP CHORD	1-2=-2655/1091, 2-3=-2259/1043, 3-4=-2063/1061, 4-5=-2063/1061, 5-6=-1947/975, 6-7=-2503/1190, 7-8=-2801/1294, 8-9=-2801/1294, 9-10=-1720/883
BOT CHORD	1-17=-1113/2005, 16-17=-1113/2015, 14-16=-822/1666, 13-14=-909/1910, 12-13=-1002/2122, 11-12=-1357/3003
WEBS	2-17=-30/287, 2-16=-593/466, 3-16=-224/568, 3-14=-536/845, 4-14=-370/332, 5-14=-229/376, 5-13=-621/374, 6-12=-658/1443, 7-12=-2010/925, 7-11=-270/406, 8-11=-470/423, 9-11=-1475/3198

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 4-0-3, Zone1 4-0-3 to 12-2-8, Zone2 12-2-8 to 17-10-11, Zone1 17-10-11 to 27-11-8, Zone3 27-11-8 to 30-4-8, Zone1 30-4-8 to 40-0-4 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) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=864, 1=675.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 534 lb down and 280 lb up at 20-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2

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

December 9,2024

LOAD CASE(S) Standard

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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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=-54, 3-6=-54, 6-7=-54, 7-9=-54, 1-13=-20, 11-13=-20, 10-11=-20
   Concentrated Loads (lb)
   Vert: 26=-500(B)

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758814
4371416	T35	Piggyback Base	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:18 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-NrqwvUlG4H9YRrZr4A9Gr2k7xLnPltEd2liTWeyAnKJ

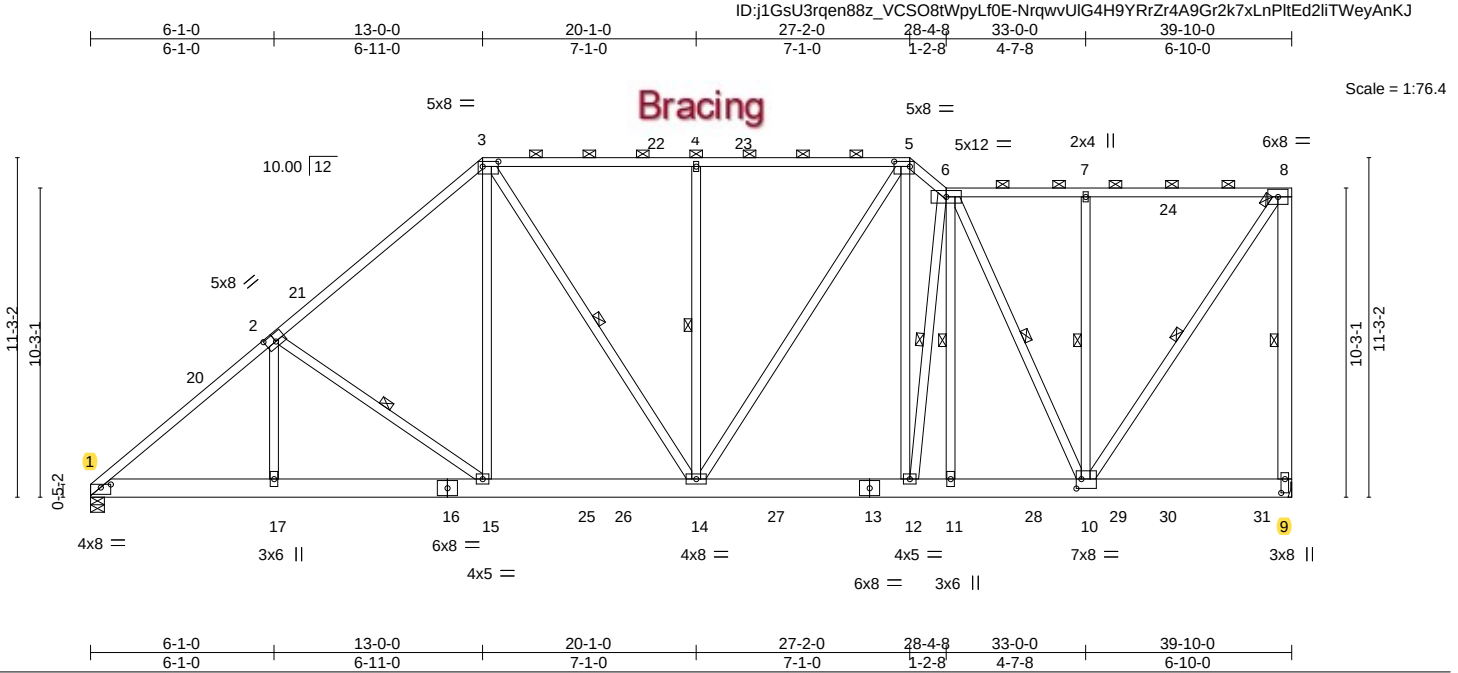

Plate Offsets (X,Y)-- [1:0-4-0,0-1-4], [2:0-4-0,0-3-0], [3:0-6-4,0-2-0], [5:0-6-4,0-2-0], [9:0-5-8,0-1-8], [10:0-2-0,0-3-12]

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	0.81	Vert(LL)	0.16	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25	BC	0.25	Vert(CT)	-0.23	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr NO	WB	0.97	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014	Matrix-MS							Weight: 387 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
2-3: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
8-9: 2x6 SP No.2, 3-14,5-14,8-10: 2x4 SP No.2

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

REACTIONS. (size) 9=Mechanical, 1=0-5-8
Max Horz 1=575(LC 12)
Max Uplift 9=-1412(LC 9), 1=-789(LC 12)
Max Grav 9=2717(LC 2), 1=2045(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2947/1214, 2-3=-2559/1182, 3-4=-2197/1129, 4-5=-2197/1129, 5-6=-2473/1207, 6-7=-1536/794, 7-8=-1536/794, 8-9=-2387/1301
BOT CHORD 1-17=-1301/2325, 15-17=-1301/2326, 14-15=-992/1891, 12-14=-967/1939, 11-12=-1005/2003, 10-11=-1004/2002
WEBS 2-15=-569/470, 3-15=-408/973, 3-14=-428/640, 4-14=-435/392, 5-14=-283/543, 5-12=-439/1011, 6-12=-600/398, 6-10=-1092/520, 7-10=-366/320, 8-10=-1398/2716

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-11-13, Zone1 3-11-13 to 13-0-0, Zone2 13-0-0 to 18-7-10 , Zone1 18-7-10 to 27-2-0, Zone3 27-2-0 to 28-4-8, Zone1 28-4-8 to 39-7-4 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) 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) 9=1412, 1=789.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 534 lb down and 280 lb up at 16-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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Date:

December 9,2024

LOAD CASE(S) Standard

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=-54, 3-5=-54, 5-6=-54, 6-8=-54, 1-11=-20, 10-11=-120(F=-100), 10-29=-220(F=-200), 29-31=-120(F=-100), 9-31=-20
   Concentrated Loads (lb)
   Vert: 25=-500(B)

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758815
4371416	T36	Piggyback Base	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:18 2024 Page 1
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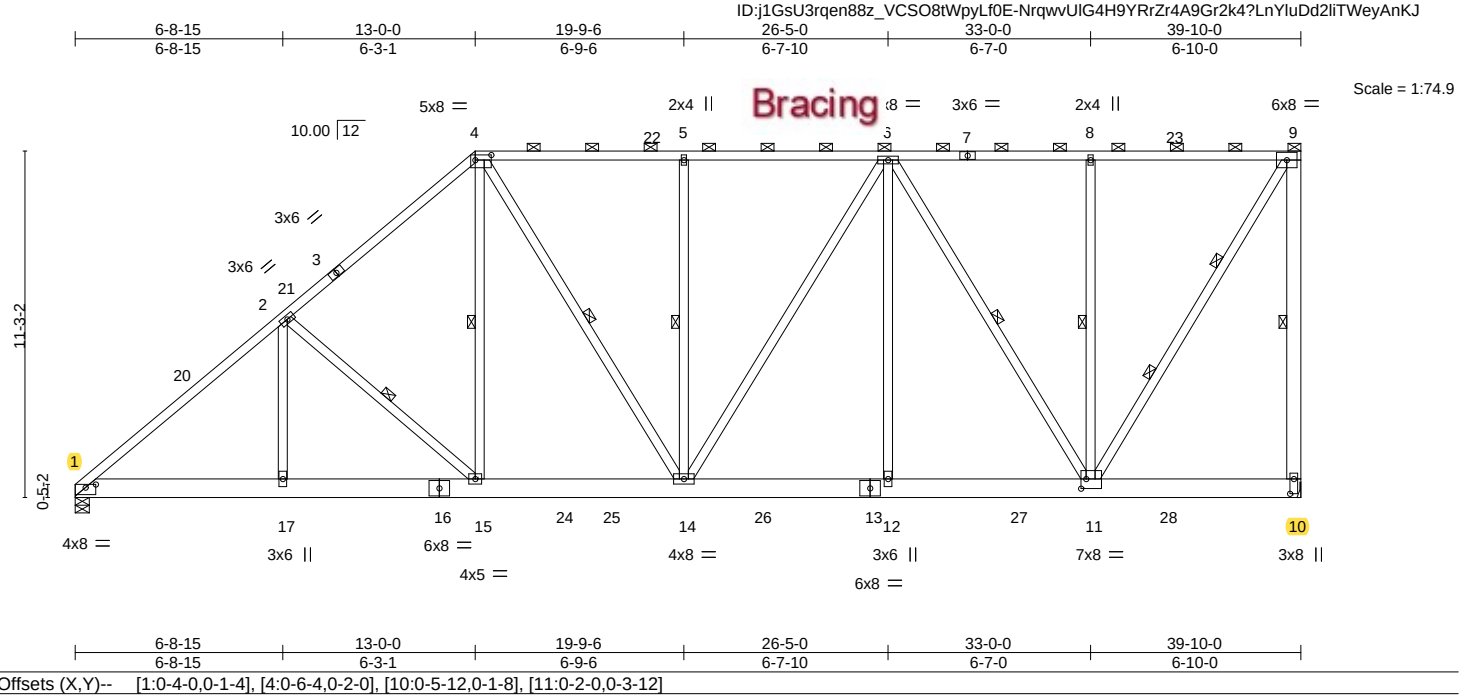

Plate Offsets (X,Y)-- [1:0-4-0,0-1-4], [4:0-6-4,0-2-0], [10:0-5-12,0-1-8], [11:0-2-0,0-3-12]

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	1.00	Vert(LL)	0.17	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.24	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.04	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 366 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
9-10: 2x6 SP No.2, 4-14,6-14,6-11,9-11: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-3-4 max.): 4-9.
BOT CHORD Rigid ceiling directly applied or 9-4-8 oc bracing.
WEBS 1 Row at midpt 9-10, 2-15, 4-15, 4-14, 5-14, 6-11, 8-11
2 Rows at 1/3 pts 9-11

REACTIONS. (size) 10=Mechanical, 1=0-5-8
Max Horz 1=607(LC 12)
Max Uplift 10=-1543(LC 9), 1=-975(LC 12)
Max Grav 10=2854(LC 2), 1=2098(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3008/1416, 2-4=-2630/1376, 4-5=-2267/1260, 5-6=-2267/1260, 6-8=-1446/779, 8-9=-1446/779, 9-10=-2473/1396
BOT CHORD 1-17=-1521/2312, 15-17=-1521/2312, 14-15=-1178/1952, 12-14=-1116/2105, 11-12=-1116/2105
WEBS 2-17=0/258, 2-15=-569/463, 4-15=-463/1027, 4-14=-480/671, 5-14=-394/353, 6-14=-327/330, 6-12=-120/578, 6-11=-1267/727, 8-11=-380/345, 9-11=-1473/2744

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-11-13, Zone1 3-11-13 to 13-0-0, Zone2 13-0-0 to 18-7-10 , Zone1 18-7-10 to 39-7-4 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) 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) 10=1543, 1=975.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 534 lb down and 280 lb up at 15-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
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

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Date:

December 9,2024

Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-54, 4-9=-54, 1-12=-20, 10-12=-120(F=-100)
   Concentrated Loads (lb)
   Vert: 24=-500(F)

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758816
4371416	T37	Roof Special Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:19 2024 Page 1
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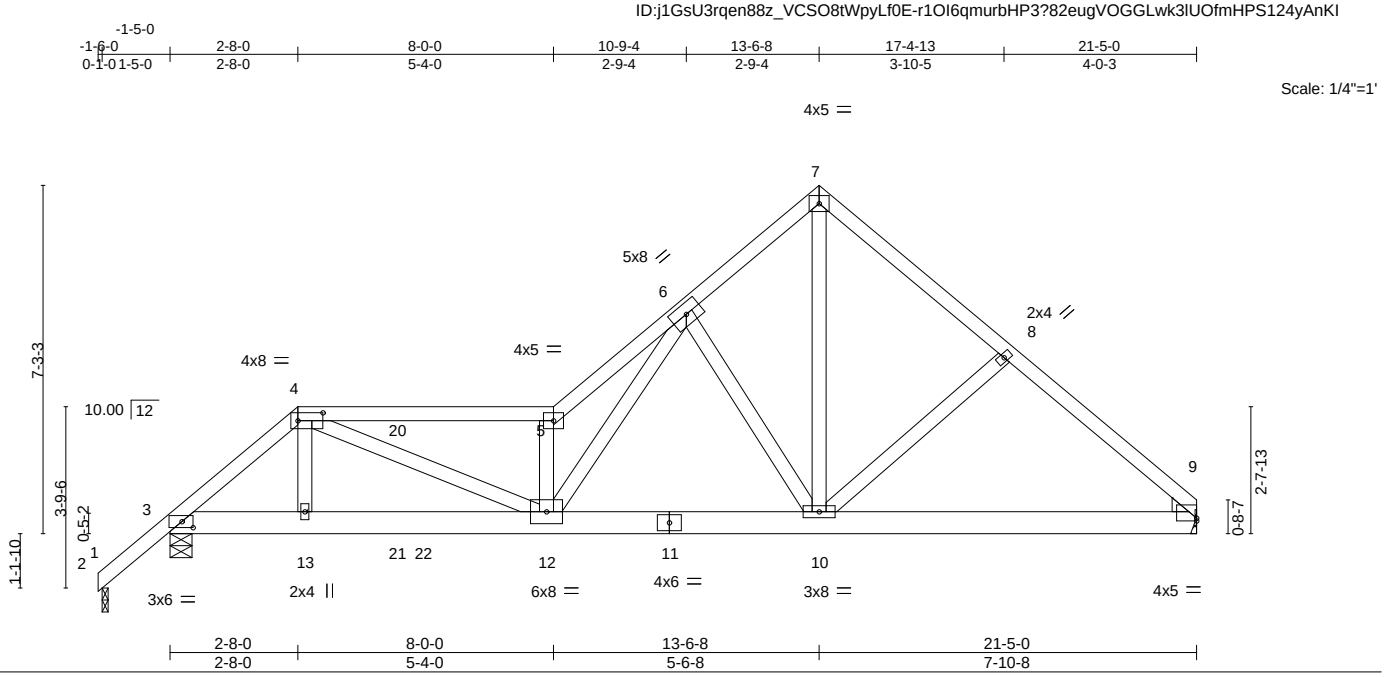

Plate Offsets (X,Y)-- [3:0-2-13,0-1-8], [4:0-6-4,0-2-0], [9:0-0-0,0-0-11]

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)	0.17	12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.21	12	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 138 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-10-7 oc bracing.

REACTIONS. (size) 9=Mechanical, 3=0-5-8, 2=0-1-8
Max Horz 3=272(LC 5), 2=37(LC 37)
Max Uplift 9=-380(LC 9), 3=-711(LC 8), 2=-50(LC 36)
Max Grav 9=845(LC 1), 3=1193(LC 1), 2=40(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-1480/900, 4-5=-2009/1134, 5-6=-2796/1649, 6-7=-903/533, 7-8=-925/539, 8-9=-1079/537
BOT CHORD 3-13=-789/1163, 12-13=-799/1186, 10-12=-565/1052, 9-10=-348/777
WEBS 4-13=-165/372, 4-12=-417/962, 5-12=-1947/1234, 6-12=-1286/2001, 6-10=-762/608, 7-10=-567/920, 8-10=-228/286

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=35ft; Cat. II; Exp C; 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) 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 at joint(s) 2.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 9=380, 3=711.
10) Non Standard bearing condition. Review required.
11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 105 lb down and 77 lb up at 2-8-0, and 105 lb down and 74 lb up at 4-8-13 on top chord, and 171 lb down and 53 lb up at 2-8-0, and 31 lb down at 4-8-13, and 199 lb down and 189 lb up at 5-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
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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December 9,2024

Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-14, 2-18=-80, 4-18=-54, 4-5=-54, 5-7=-54, 7-9=-54, 14-17=-20
   Concentrated Loads (lb)
   Vert: 4=-2(B) 13=-79(B) 20=-2(B) 21=-2(B) 22=-199(B)

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758817
4371416	T38	Roof Special	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:20 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-JEygJ9mWcvPGg9jECbBkwTpaU8NHDutwW3BaaWyAnKH

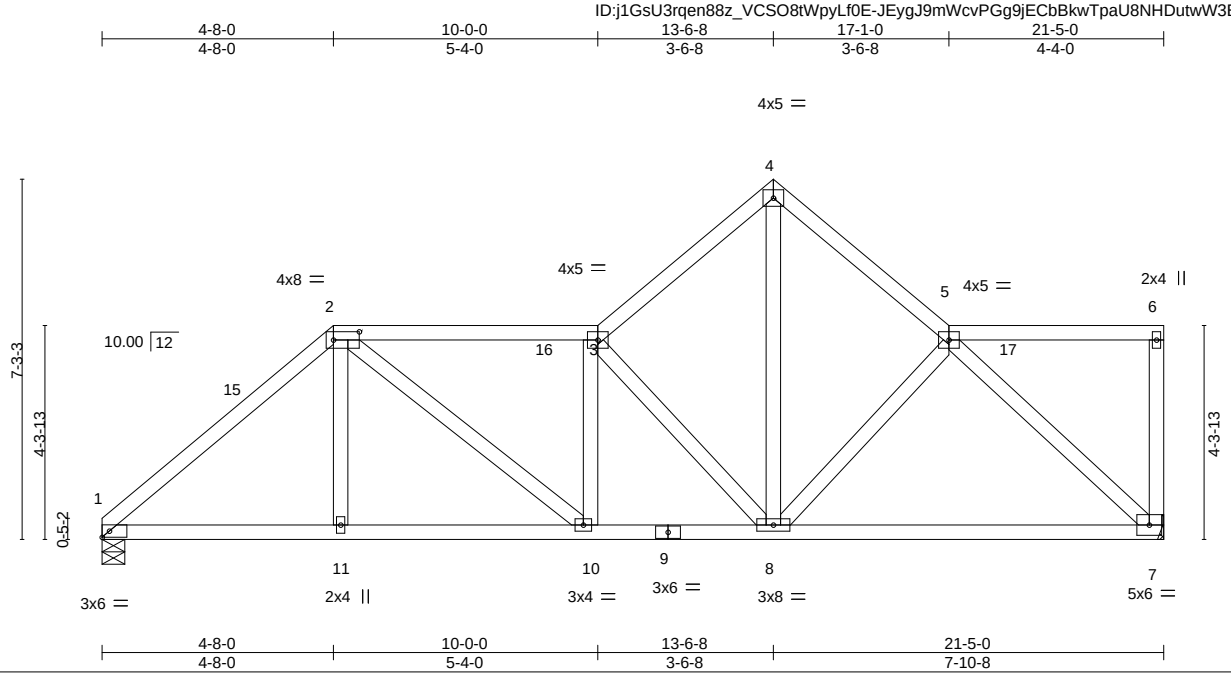

Plate Offsets (X,Y)-- [2:0-6-4,0-2-0]

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	0.36	Vert(LL)	-0.11	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.22	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 128 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 5-1-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-7-14 oc bracing.

REACTIONS. (size) 1=0-5-8, 7=Mechanical
Max Horz 1=290(LC 12)
Max Uplift 1=-367(LC 12), 7=-331(LC 13)
Max Grav 1=787(LC 1), 7=787(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1045/510, 2-3=-1045/591, 3-4=-811/471, 4-5=-808/445
BOT CHORD 1-11=-521/743, 10-11=-521/748, 8-10=-592/1051, 7-8=-357/648
WEBS 2-10=-151/376, 3-8=-717/482, 4-8=-413/762, 5-7=-871/489

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 4-8-0, Zone2 4-8-0 to 8-10-15, Zone1 8-10-15 to 13-6-8, Zone3 13-6-8 to 17-1-0, Zone1 17-1-0 to 21-3-4 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) 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=367, 7=331.

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Date:

December 9,2024

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758818
4371416	T39	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:20 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-JEygJ9mWcvPGg9jECbBkwTpWX8NmDqFwW3BaaWyAnKH

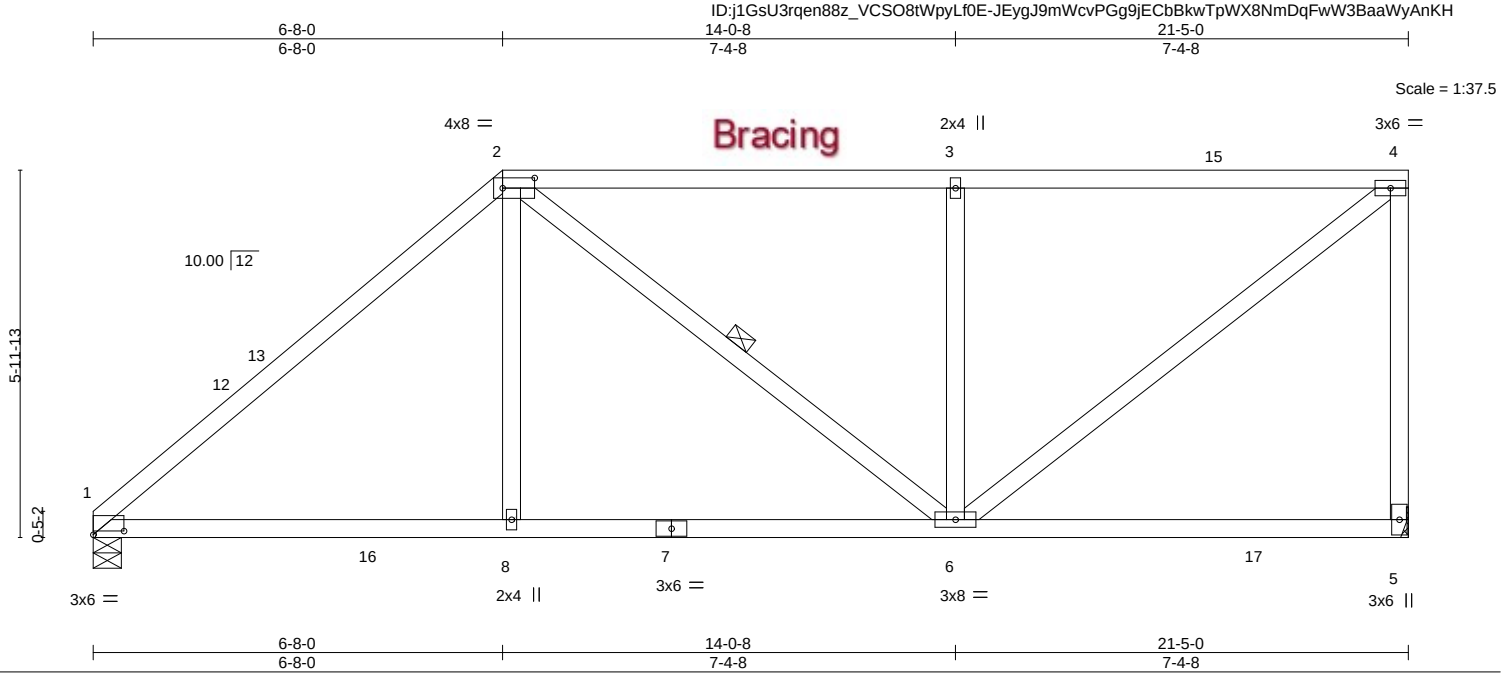

Plate Offsets (X,Y)-- [1:0-6-0,0-0-11], [2:0-6-4,0-2-0]

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	0.61	Vert(LL)	0.15	8-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.17	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 117 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 4-8-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-8-2 oc bracing.
WEBS 1 Row at midpt 2-6

REACTIONS. (size) 1=0-5-8, 5=Mechanical
Max Horz 1=313(LC 12)
Max Uplift 1=-368(LC 12), 5=-439(LC 9)
Max Grav 1=892(LC 2), 5=898(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1103/431, 2-3=-814/408, 3-4=-814/408, 4-5=-757/454
BOT CHORD 1-8=-464/780, 6-8=-465/789
WEBS 2-8=-15/383, 3-6=-451/415, 4-6=-506/1008

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 6-8-0, Zone2 6-8-0 to 10-10-15, Zone1 10-10-15 to 21-3-4 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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
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) 1=368, 5=439.

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December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758819
4371416	T40	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:21 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-nQW3XVn8NCX7IJIQmJizThMjcYiOyNI3ljx86zyAnKG

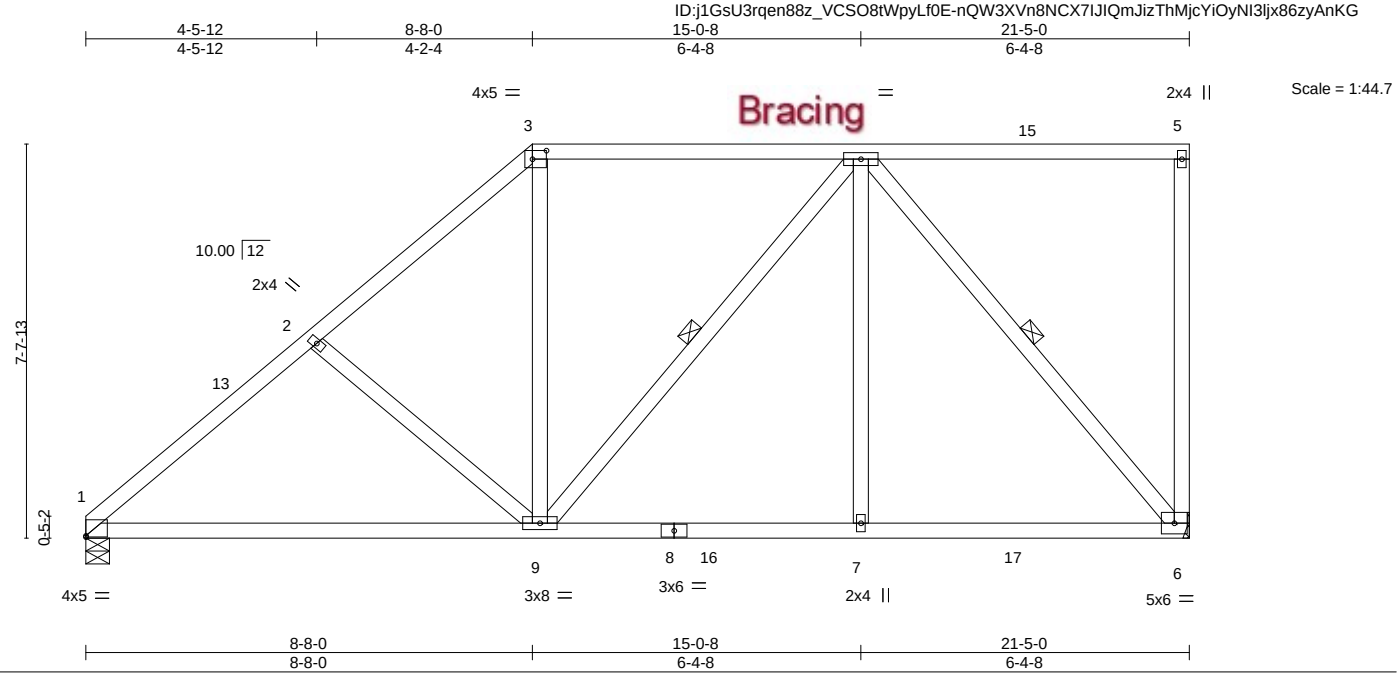

Plate Offsets (X,Y)-- [1:0-0-0,0-0-5], [3:0-3-4,0-2-0]

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	0.46	Vert(LL)	-0.13	9-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.26	9-12	>975	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 135 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 5-2-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-2-9 oc bracing.
WEBS 1 Row at midpt 4-9, 4-6

REACTIONS. (size) 1=0-5-8, 6=Mechanical
Max Horz 1=406(LC 12)
Max Uplift 1=-347(LC 12), 6=-438(LC 9)
Max Grav 1=866(LC 2), 6=903(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1052/455, 2-3=-914/423, 3-4=-652/409
BOT CHORD 1-9=-650/827, 7-9=-296/592, 6-7=-296/592
WEBS 2-9=-309/315, 3-9=-46/344, 4-7=0/352, 4-6=-900/457

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 8-8-0, Zone2 8-8-0 to 12-10-15, Zone1 12-10-15 to 21-3-4 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) 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=347, 6=438.

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December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758820
4371416	T41	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:21 2024 Page 1
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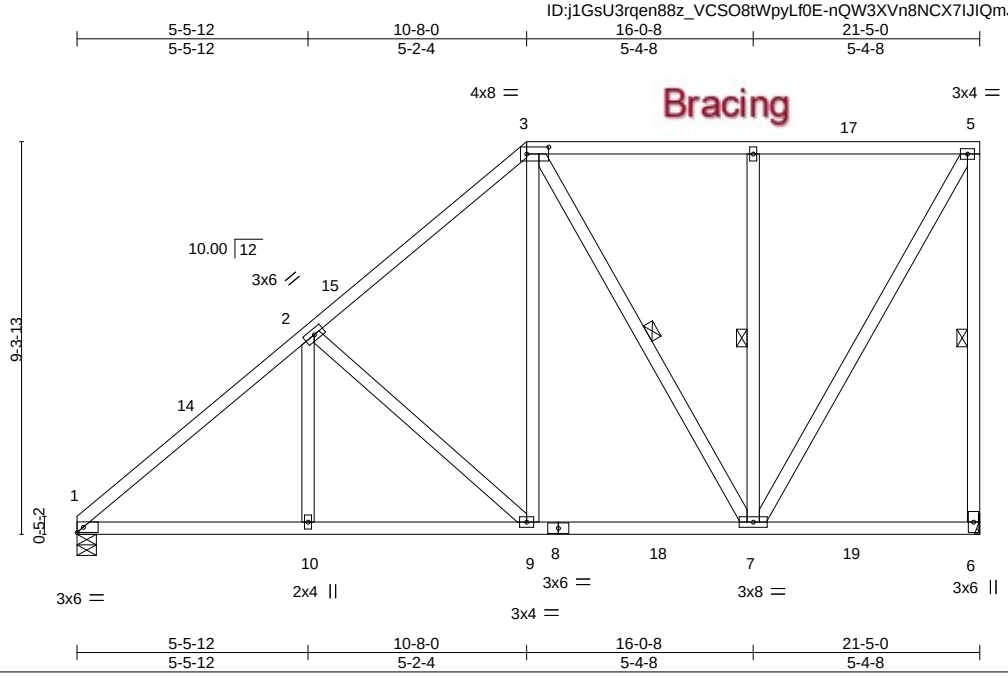

Plate Offsets (X,Y)-- [3:0-6-4,0-2-0]

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	0.43	Vert(LL)	0.06	10-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.07	10-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 154 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 5-4-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-9-12 oc bracing.
WEBS 1 Row at midpt 5-6, 3-7, 4-7

REACTIONS. (size) 1=0-5-8, 6=Mechanical
Max Horz 1=499(LC 12)
Max Uplift 1=-318(LC 12), 6=-437(LC 12)
Max Grav 1=875(LC 19), 6=907(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1110/392, 2-3=-775/358, 3-4=-414/236, 4-5=-414/236, 5-6=-800/449
BOT CHORD 1-10=-670/893, 9-10=-670/893, 7-9=-373/537
WEBS 2-9=-500/398, 3-9=-223/533, 3-7=-339/269, 4-7=-338/303, 5-7=-469/815

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 10-8-0, Zone2 10-8-0 to 14-10-15, Zone1 14-10-15 to 21-3-4 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) 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=318, 6=437.

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December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758821
4371416	T42	Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:22 2024 Page 1
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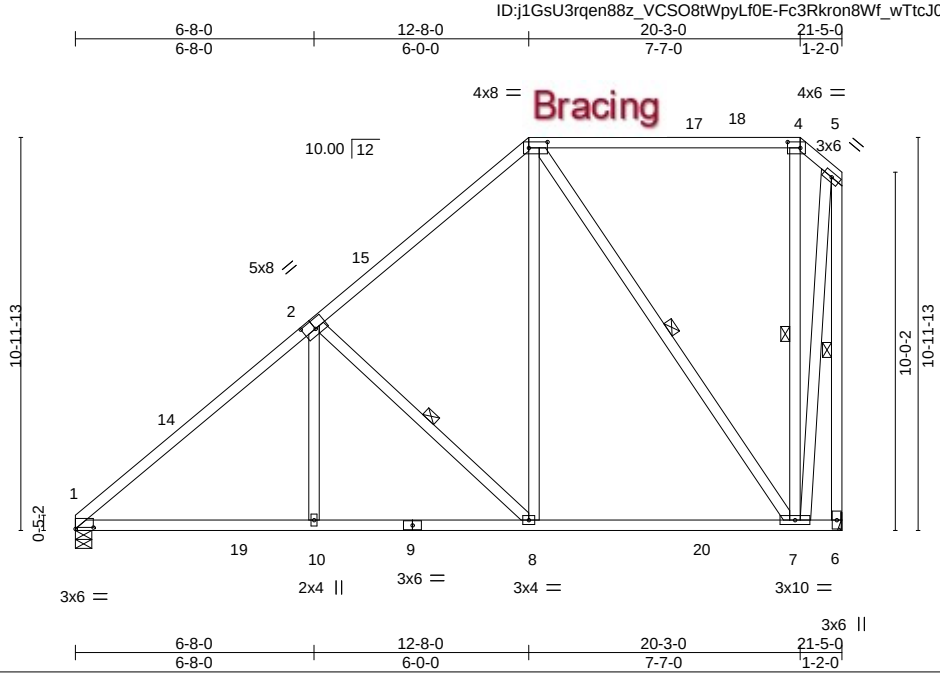

Plate Offsets (X,Y)-- [1:0-6-0,0-0-7], [2:0-4-0,0-3-0], [3:0-6-4,0-2-0], [4:0-4-4,0-2-0]

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	0.68	Vert(LL)	-0.12	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25	BC	0.53	Vert(CT)	-0.20	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr YES	WB	0.85	Horz(CT)	0.02	6	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 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-8-9 oc bracing.
WEBS 1 Row at midpt 2-8, 3-7, 4-7, 5-6

REACTIONS. (size) 1=0-5-8, 6=Mechanical
Max Horz 1=563(LC 12)
Max Uplift 1=-291(LC 12), 6=-474(LC 12)
Max Grav 1=921(LC 19), 6=898(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1101/331, 2-3=-685/295, 5-6=-988/437
BOT CHORD 1-10=-660/923, 8-10=-660/926, 7-8=-313/479
WEBS 2-10=-5/295, 2-8=-615/473, 3-8=-268/696, 3-7=-663/456, 4-7=-303/300, 5-7=-441/968

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 12-8-0, Zone2 12-8-0 to 16-10-15, Zone1 16-10-15 to 20-3-0, Zone3 20-3-0 to 21-3-4 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) 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=291, 6=474.

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758822
4371416	T43	Piggyback Base	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:22 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-Fc3Rkron8Wf_wTtcJ0EC0uuq7y?fhlMDzNghfPyAnKF

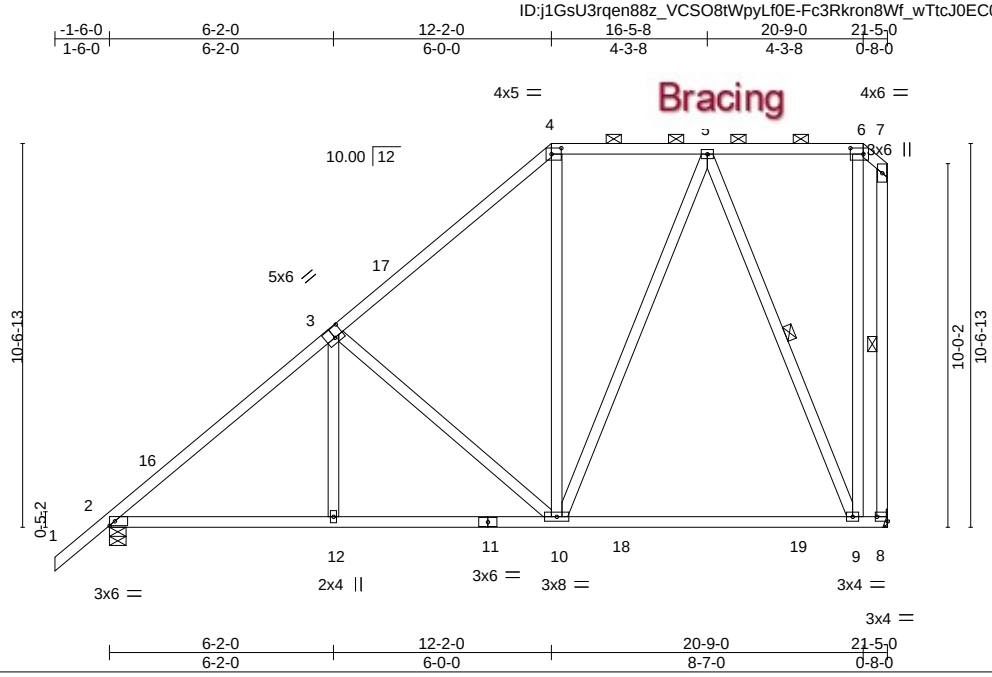

Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [4:0-3-4,0-2-0], [6:0-4-4,0-2-0], [8:Edge,0-1-8]

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	0.73	Vert(LL)	-0.28	9-10	>915	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.47	9-10	>546	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 168 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-5-8, 8=Mechanical
Max Horz 2=613(LC 12)
Max Uplift 2=-359(LC 12), 8=-465(LC 12)
Max Grav 2=979(LC 19), 8=895(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1073/334, 3-4=-712/299, 4-5=-486/340, 6-7=-496/163, 7-8=-701/226
BOT CHORD 2-12=-664/884, 10-12=-664/886, 9-10=-204/313
WEBS 3-10=-535/441, 5-9=-730/510, 6-9=-193/658, 5-10=-324/530

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-2-0, Zone2 12-2-0 to 16-5-8, Zone1 16-5-8 to 20-9-0, Zone3 20-9-0 to 21-3-4 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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=359, 8=465.
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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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	T44	Piggyback Base Girder	1	2	T35758823

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:23 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-jodpyBpPvqnrXdSptklRY6R4XMREQ9xMC1QEBryAnKE

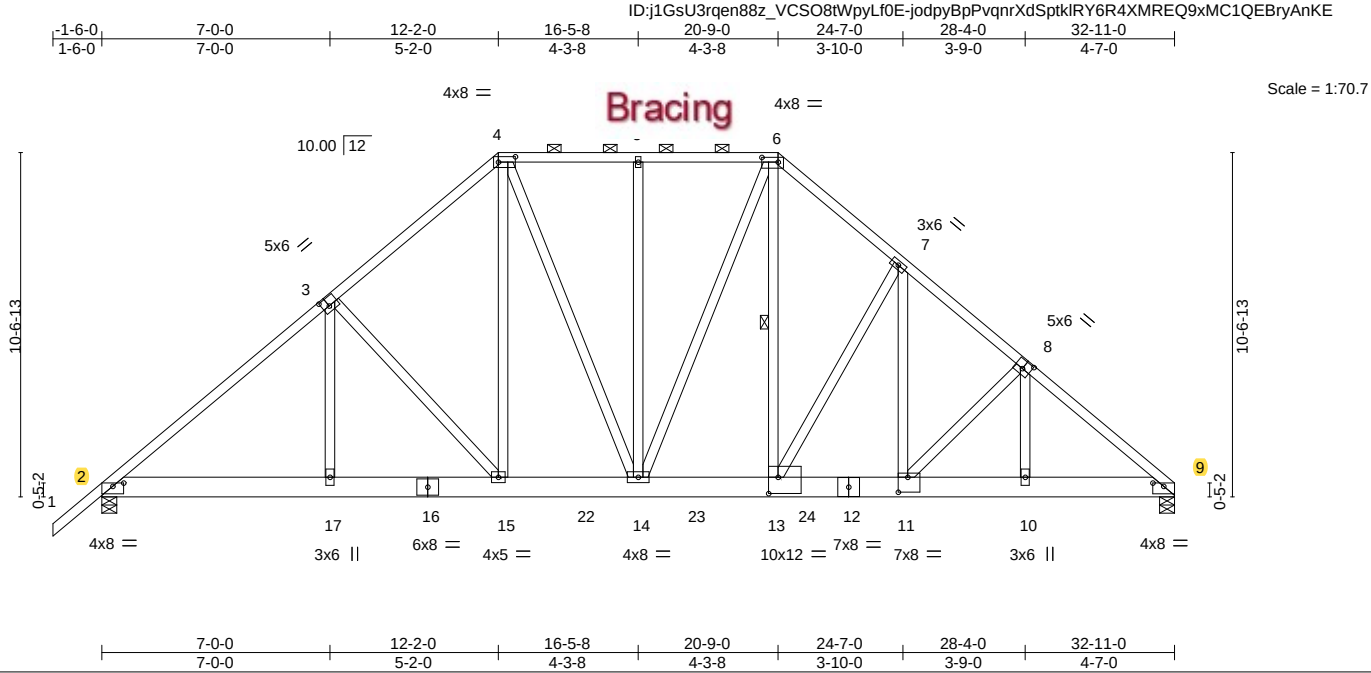

Plate Offsets (X,Y)-- [2:0-4-0,0-1-4], [3:0-2-8,0-3-0], [4:0-6-4,0-2-0], [6:0-6-0,0-1-12], [8:0-3-0,0-3-0], [9:0-4-0,0-1-4], [11:0-3-8,0-5-8], [13:0-3-8,0-6-0]

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	0.43	Vert(LL)	0.18	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.23	11-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 582 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-7 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-13

REACTIONS. (size) 2=0-5-8, 9=0-5-8
Max Horz 2=393(LC 28)
Max Uplift 2=-1544(LC 8), 9=-2463(LC 9)
Max Grav 2=2988(LC 2), 9=4532(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4282/2187, 3-4=-3927/2178, 4-5=-3710/2152, 5-6=-3710/2152, 6-7=-5627/3236, 7-8=-6777/3822, 8-9=-6808/3723
BOT CHORD 2-17=-1741/3224, 15-17=-1741/3229, 14-15=-1512/2947, 13-14=-2224/4341, 11-13=-2678/5164, 10-11=-2732/5188, 9-10=-2732/5189
WEBS 3-17=-51/327, 3-15=-599/458, 4-15=-269/565, 4-14=-1279/2025, 5-14=-251/241, 6-14=-1688/1237, 6-13=-2930/4909, 7-13=-1798/1287, 7-11=-1290/2090, 8-11=-438/372, 8-10=-198/306

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: 2x8 - 2 rows staggered at 0-3-0 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=35ft; Cat. II; Exp C; 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, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1544, 9=2463.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3766 lb down and 2115 lb up at 21-6-9, and 591 lb down and 423 lb up at 22-10-4, and 588 lb down and 361 lb up at 24-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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Continued on page 2

LOAD CASE(S) Standard

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LOAD CASE(S) Standard

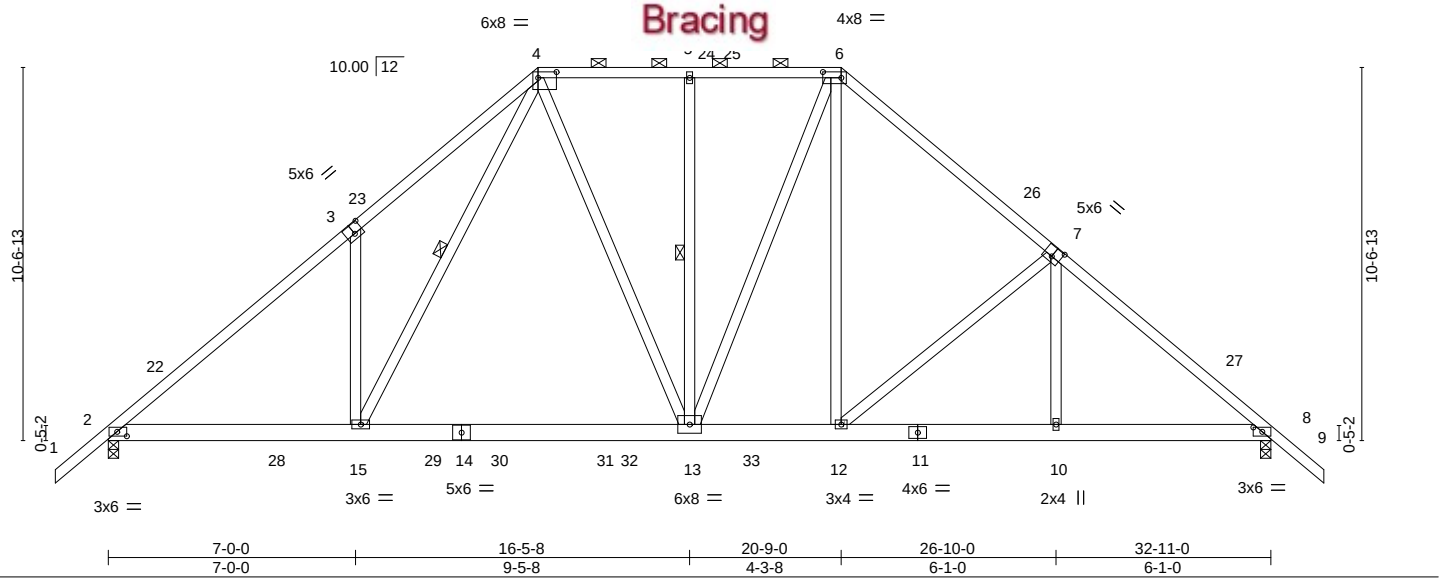
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-54, 4-6=-54, 6-9=-54, 2-9=-20
   Concentrated Loads (lb)
   Vert: 11=-588(B) 12=-591(B) 24=-3456(B)

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758824
4371416	T45	HIP	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:24 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-B?BB9Xp1g7vi9m1?RRGg5J_B8lfu9ejVRh9ojHyAnKD

-1-6-0	7-0-0	12-2-0	16-5-8	20-9-0	26-10-0	32-11-0	34-5-0
1-6-0	7-0-0	5-2-0	4-3-8	4-3-8	6-1-0	6-1-0	1-6-0

Scale = 1:65.2



7-0-0	16-5-8	20-9-0	26-10-0	32-11-0
7-0-0	9-5-8	4-3-8	6-1-0	6-1-0

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

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)	-0.19	13-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.39	13-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.05	8	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 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-1 oc purlins, except 2-0-0 oc purlins (4-8-13 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-3-6 oc bracing: 2-15.
WEBS 1 Row at midpt 4-15, 5-13

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-408(LC 10)
Max Uplift 2=-713(LC 12), 8=-661(LC 13)
Max Grav 2=1818(LC 19), 8=1610(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2480/885, 3-4=-2554/1256, 4-5=-1494/707, 5-6=-1494/707, 6-7=-1741/762, 7-8=-2159/813
BOT CHORD 2-15=-714/2067, 13-15=-455/1446, 12-13=-307/1270, 10-12=-420/1603, 8-10=-419/1605
WEBS 3-15=-442/546, 4-15=-720/1352, 4-13=-271/484, 5-13=-250/235, 6-13=-340/679, 6-12=-221/364, 7-12=-593/444, 7-10=-3/298

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-9-8, Zone1 1-9-8 to 12-2-0, Zone2 12-2-0 to 16-9-14, Zone1 16-9-14 to 20-9-0, Zone2 20-9-0 to 25-4-14, Zone1 25-4-14 to 34-5-0 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) 100.0lb AC unit load placed on the bottom chord, 12-6-0 from left end, supported at two points, 3-0-0 apart.
5) Provide adequate drainage to prevent water ponding.
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) 2=713, 8=661.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
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: 1-4=-54, 4-6=-54, 6-9=-54, 15-16=-20, 13-15=-70(F=-50), 13-19=-20

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December 9,2024

Continued on page 2

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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 30=-50 31=-50

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758825
4371416	T46	Scissor	4	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:24 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-B?BB9Xp1g7vi9m1?RRGg5J_FwljK9kEVRh9ojHyAnKD

-1-6-0	3-8-1	8-2-8	12-8-15	16-5-0	17-11-0
1-6-0	3-8-1	4-6-7	4-6-7	3-8-1	1-6-0

Scale = 1:46.6

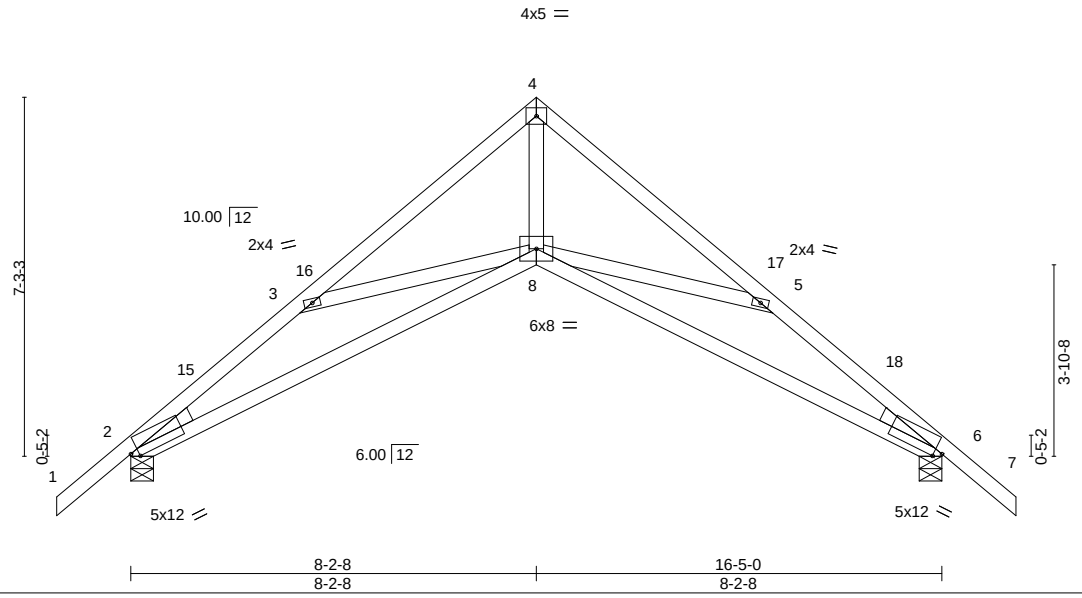

Plate Offsets (X,Y)-- [2:0-1-14,0-1-7], [6:0-1-14,0-1-7]

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	0.39	Vert(LL)	-0.12	8-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.25	8-14	>778	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.20	6	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
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-10-5 oc bracing.

REACTIONS. (size) 2=0-5-8, 6=0-5-8
Max Horz 2=-289(LC 10)
Max Uplift 2=-314(LC 12), 6=-314(LC 13)
Max Grav 2=688(LC 1), 6=688(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1613/778, 3-4=-1195/339, 4-5=-1241/393, 5-6=-1499/679
BOT CHORD 2-8=-713/1554, 6-8=-448/1241
WEBS 4-8=-274/1243, 5-8=-456/573, 3-8=-467/546

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 8-2-8, Zone2 8-2-8 to 12-5-7, Zone1 12-5-7 to 17-11-0 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) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=314, 6=314.

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758826
4371416	T46G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:25 2024 Page 1
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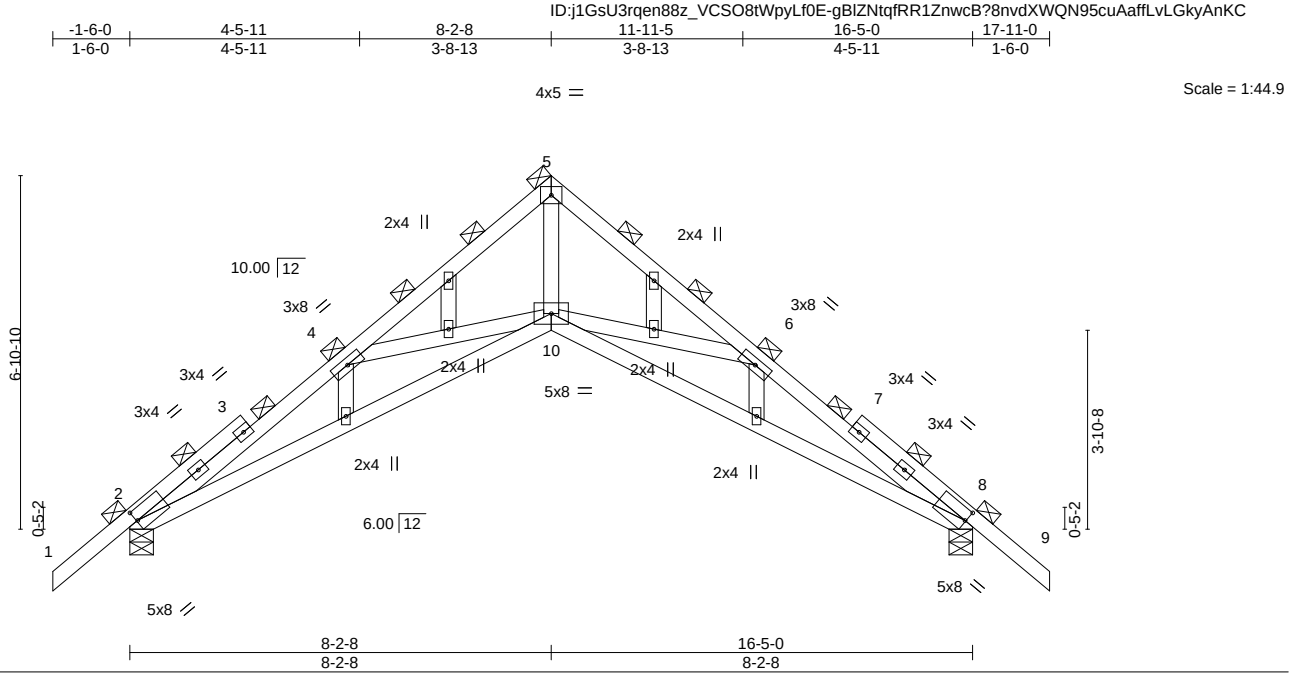

Plate Offsets (X,Y)-- [2:0-0-4,0-2-8], [8:0-0-4,0-2-8]

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	0.41	Vert(LL)	-0.09	10-22	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.21	10-22	>905	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.19	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 95 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 (4-2-3 max.).
BOT CHORD	Rigid ceiling directly applied or 6-11-8 oc bracing.

REACTIONS. (size) 2=0-5-8, 8=0-5-8
Max Horz 2=-275(LC 10)
Max Uplift 2=-320(LC 12), 8=-320(LC 13)
Max Grav 2=684(LC 1), 8=684(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1766/789, 4-5=-1269/359, 5-6=-1307/403, 6-8=-1640/664
BOT CHORD 2-10=-723/1747, 8-10=-443/1437
WEBS 5-10=-332/1398, 4-10=-557/532, 6-10=-553/533

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-3-8, Zone1 1-3-8 to 8-2-8, Zone2 8-2-8 to 12-2-15, Zone1 12-2-15 to 17-11-0 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 studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Bearing at joint(s) 2, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=320, 8=320.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758827
4371416	T47	Common	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:25 2024 Page 1
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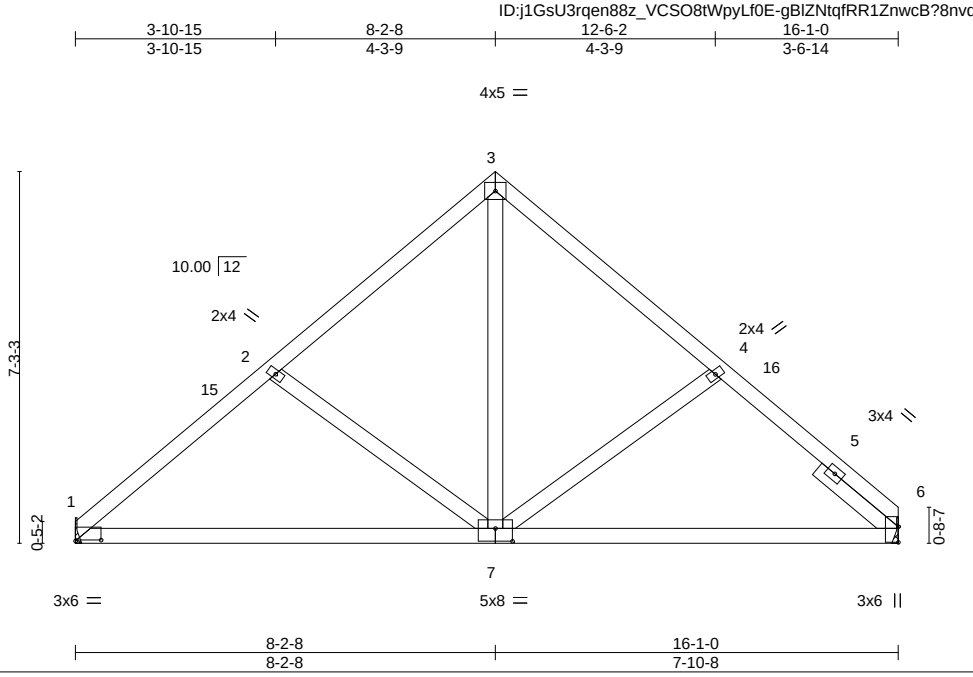

Plate Offsets (X,Y)-- [1:0-6-0,0-0-3], [6:Edge,0-0-0], [7:0-4-0,0-3-0]

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	0.33	Vert(LL)	-0.08	7-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.17	7-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 84 lb	FT = 20%

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

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=Mechanical, 6=Mechanical
Max Horz 1=243(LC 9)
Max Uplift 1=-250(LC 12), 6=-247(LC 13)
Max Grav 1=595(LC 1), 6=595(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-723/464, 2-3=-563/419, 3-4=-559/418, 4-6=-620/458
BOT CHORD 1-7=-336/635, 6-7=-252/506
WEBS 2-7=-286/314, 3-7=-298/487, 4-7=-248/290

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 8-2-8, Zone2 8-2-8 to 12-7-9, Zone1 12-7-9 to 16-1-0 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) 1=250, 6=247.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	T48	Half Hip Girder	1	2	T35758828

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:26 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-8NJyaDrHCl9QP4AOYsI8Ak3dJZWBdX5ou?evoAyAnKB

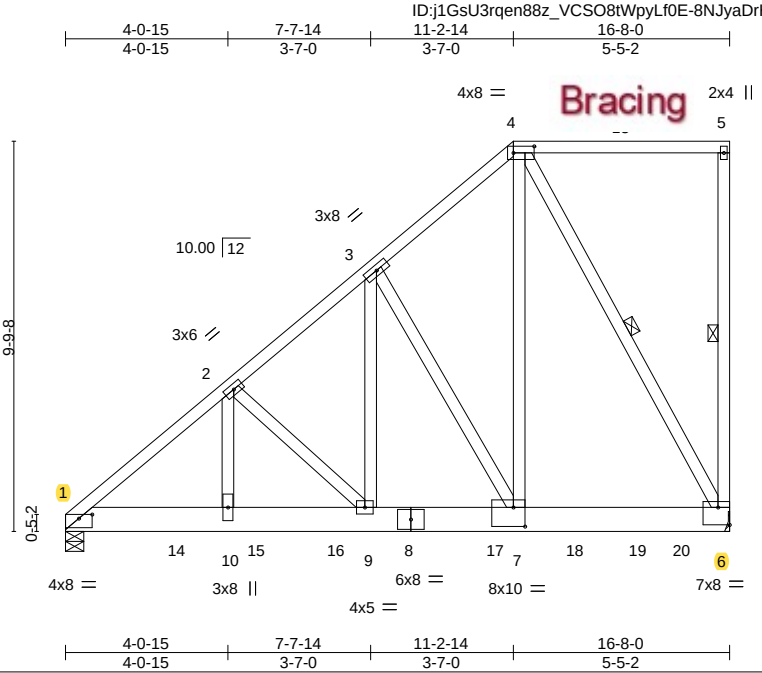

Plate Offsets (X,Y)-- [1:0-4-0,0-1-4], [4:0-6-4,0-2-0], [6:Edge,0-5-4], [7:0-3-8,0-5-12]

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	0.27	Vert(LL)	0.07	9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25	BC	0.19	Vert(CT)	-0.10	9	>999	180		
BCLL	0.0 *	Rep Stress Incr NO	WB	0.78	Horz(CT)	0.01	6	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 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-6, 4-6

REACTIONS. (size) 1=0-5-8, 6=Mechanical
Max Horz 1=525(LC 8)
Max Uplift 1=-1783(LC 8), 6=-2095(LC 8)
Max Grav 1=3749(LC 1), 6=3801(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4728/2260, 2-3=-3479/1682, 3-4=-2155/1104
BOT CHORD 1-10=-2151/3610, 9-10=-2151/3610, 7-9=-1538/2632, 6-7=-951/1677
WEBS 2-10=-767/1675, 2-9=-1461/838, 3-9=-1242/2415, 3-7=-2004/1220, 4-7=-2182/4103, 4-6=-3388/1921

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: 2x8 - 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=35ft; Cat. II; Exp C; 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, with BCDL = 10.0psf.
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) 1=1783, 6=2095.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 578 lb down and 264 lb up at 0-8-12, 825 lb down and 400 lb up at 2-8-12, 767 lb down and 351 lb up at 4-8-12, 863 lb down and 459 lb up at 6-8-12, 868 lb down and 458 lb up at 8-8-12, 870 lb down and 457 lb up at 10-8-12, and 848 lb down and 494 lb up at 12-8-12, and 855 lb down and 485 lb up at 14-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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LOAD CASE(S) Standard

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=-54, 4-5=-54, 1-6=-20
   Concentrated Loads (lb)
   Vert: 8=-767(F) 12=-578(F) 14=-825(F) 15=-767(F) 16=-767(F) 17=-767(F) 18=-767(F) 20=-764(F)

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758829
4371416	T49	Scissor	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:27 2024 Page 1
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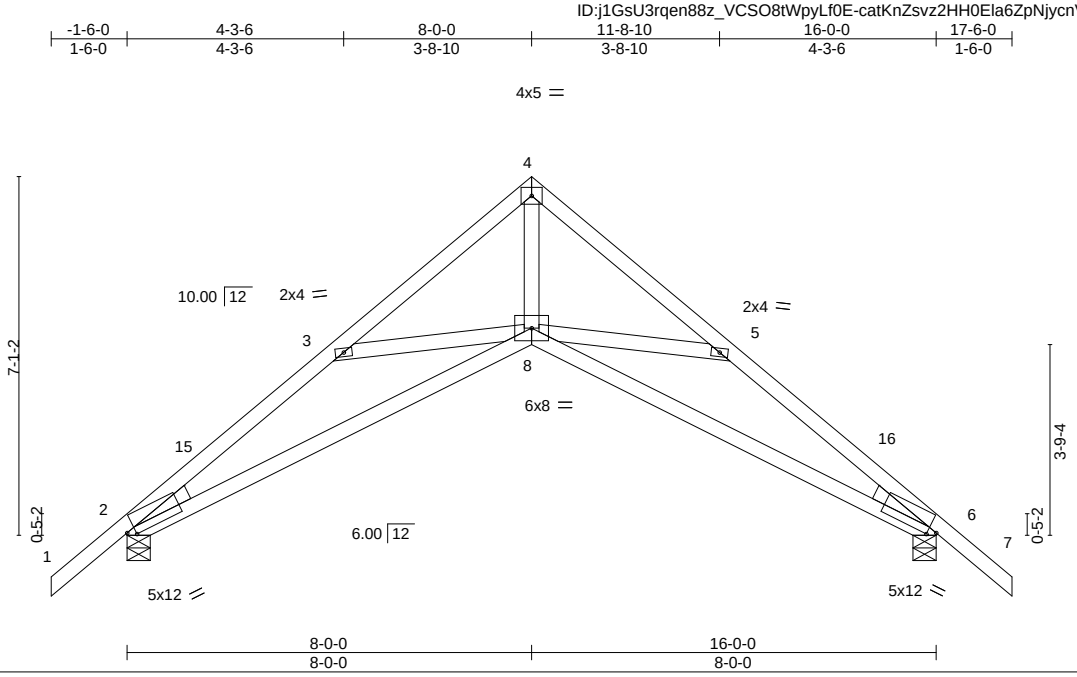

Plate Offsets (X,Y)-- [2:0-2-0,0-1-4], [6:0-2-0,0-1-4]

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	0.37	Vert(LL)	-0.11	8-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.23	8-14	>827	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.18	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 83 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-6-0 oc bracing.

REACTIONS. (size) 2=0-5-8, 6=0-5-8
Max Horz 2=283(LC 11)
Max Uplift 2=-308(LC 12), 6=-308(LC 13)
Max Grav 2=673(LC 1), 6=673(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1513/679, 3-4=-1149/341, 4-5=-1185/384, 5-6=-1421/591
BOT CHORD 2-8=-610/1454, 6-8=-353/1168
WEBS 4-8=-310/1234, 5-8=-382/472, 3-8=-390/458

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 8-0-0, Zone2 8-0-0 to 11-11-12, Zone1 11-11-12 to 17-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=308, 6=308.

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758830
4371416	T49G	GABLE	4	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:27 2024 Page 1
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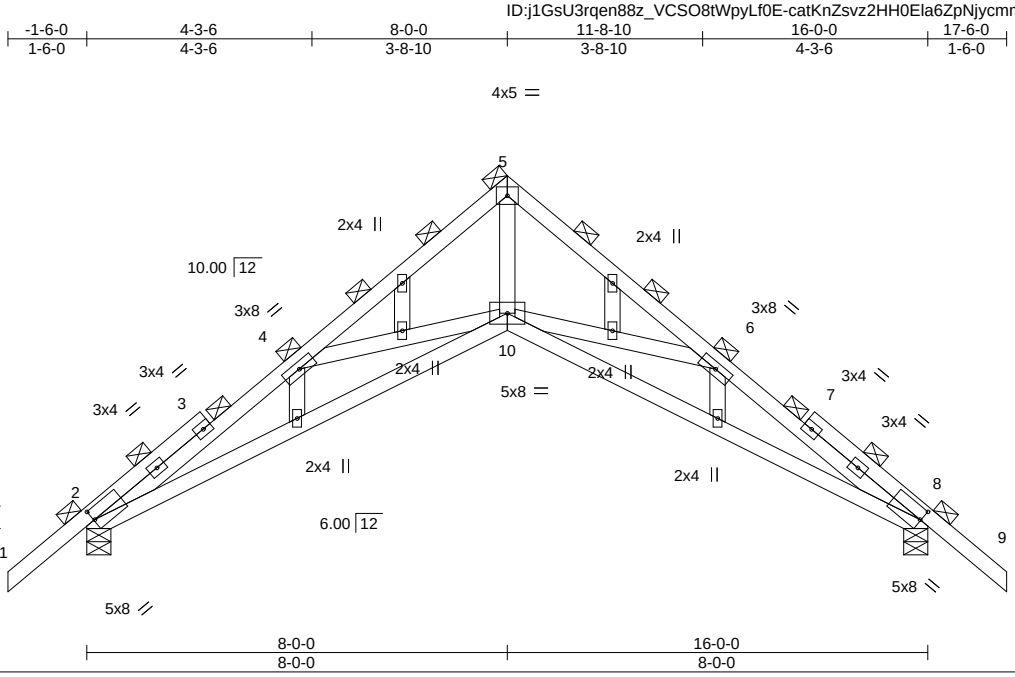

Plate Offsets (X,Y)-- [2:0-0-4,0-2-8], [8:0-0-4,0-2-8]

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)	-0.09	10-22	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.19	10-22	>975	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.18	8	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
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (4-3-12 max.).
BOT CHORD Rigid ceiling directly applied or 7-0-6 oc bracing.

REACTIONS. (size) 2=0-5-8, 8=0-5-8
Max Horz 2=-269(LC 10)
Max Uplift 2=-314(LC 12), 8=-314(LC 13)
Max Grav 2=668(LC 1), 8=668(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1727/775, 4-5=-1236/345, 5-6=-1273/389, 6-8=-1600/671
BOT CHORD 2-10=-711/1709, 8-10=-450/1402
WEBS 5-10=-313/1353, 4-10=-558/541, 6-10=-554/538

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-3-8, Zone1 1-3-8 to 8-0-0, Zone2 8-0-0 to 12-0-5, Zone1 12-0-5 to 17-6-0 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 studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Bearing at joint(s) 2, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=314, 8=314.
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:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758831
4371416	T50	Scissor	4	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:28 2024 Page 1
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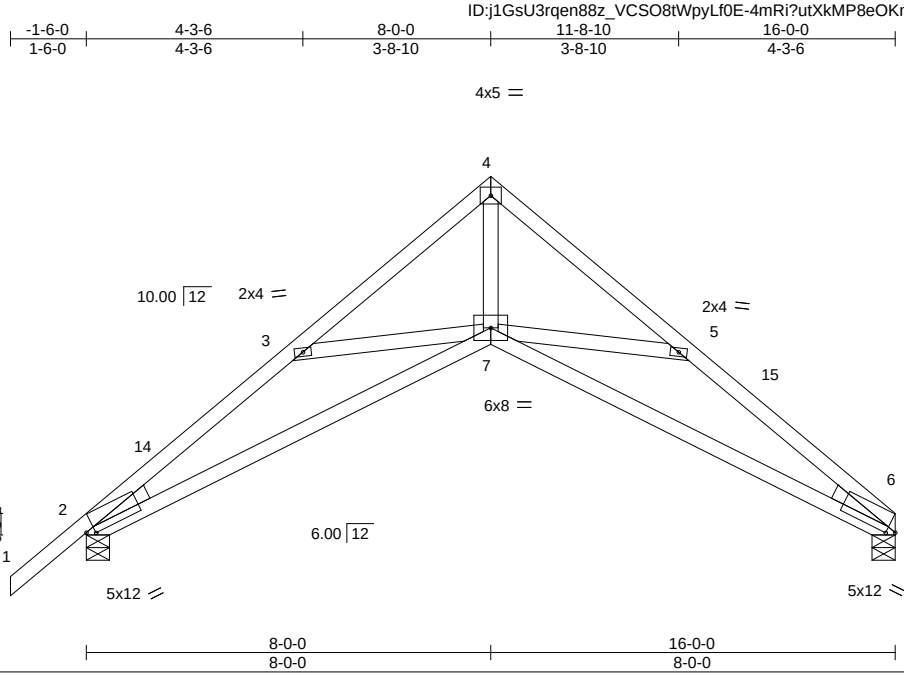

Plate Offsets (X,Y)-- [2:0-2-0,0-1-1], [6:0-2-0,0-1-1]

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	0.41	Vert(LL)	-0.11	7-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25	BC	0.62	Vert(CT)	-0.24	7-10	>816	180		
BCLL	0.0 *	Rep Stress Incr YES	WB	0.43	Horz(CT)	0.18	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014	Matrix-MS							Weight: 80 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-0-15 oc bracing.

REACTIONS. (size) 6=0-5-8, 2=0-5-8
Max Horz 2=268(LC 9)
Max Uplift 6=-245(LC 13), 2=-310(LC 12)
Max Grav 6=588(LC 1), 2=677(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1483/731, 3-4=-1116/398, 4-5=-1153/441, 5-6=-1452/762
BOT CHORD 2-7=-684/1405, 6-7=-514/1203
WEBS 4-7=-382/1194, 5-7=-384/482, 3-7=-383/436

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 8-0-0, Zone2 8-0-0 to 11-11-12, Zone1 11-11-12 to 16-0-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 6, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=245, 2=310.

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758832
4371416	T51	Scissor	6	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:28 2024 Page 1
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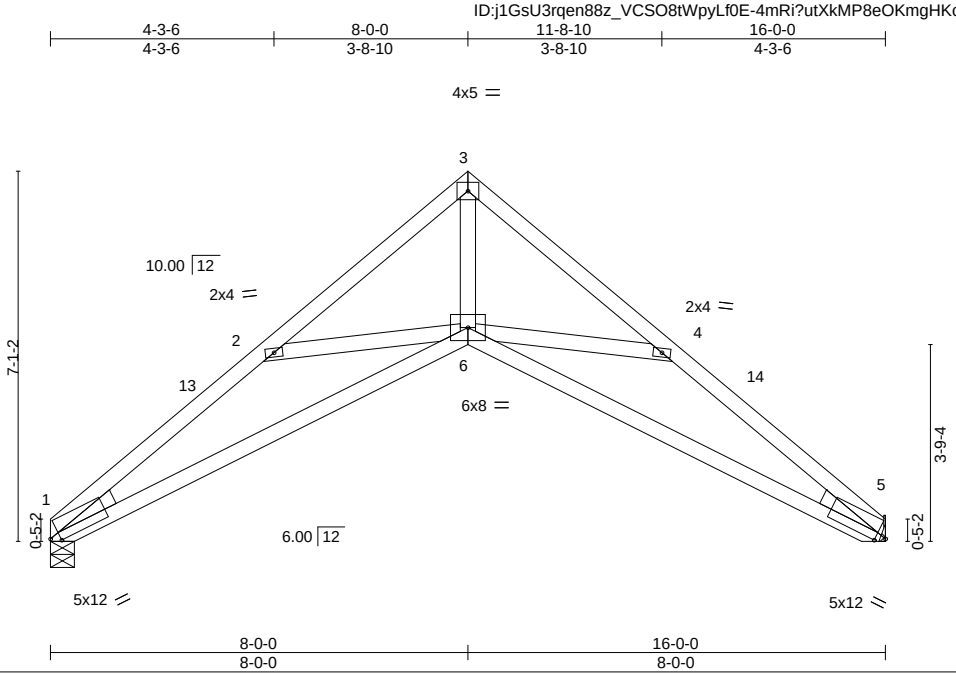

Plate Offsets (X,Y)-- [1:0-2-3,0-1-6], [5:0-2-3,0-1-6]

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)	-0.11	6-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.23	6-12	>819	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.18	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 77 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-11-4 oc bracing.

REACTIONS. (size) 1=0-5-8, 5=Mechanical
Max Horz 1=-238(LC 8)
Max Uplift 1=-247(LC 12), 5=-247(LC 13)
Max Grav 1=592(LC 1), 5=592(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1517/774, 2-3=-1137/445, 3-4=-1167/456, 4-5=-1465/773
BOT CHORD 1-6=-722/1441, 5-6=-552/1213
WEBS 3-6=-404/1216, 4-6=-383/481, 2-6=-383/453

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 8-0-0, Zone2 8-0-0 to 11-11-12, Zone1 11-11-12 to 16-0-0 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) 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) Bearing at joint(s) 1 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) 1=247, 5=247.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

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

Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758833
4371416	T52	Scissor	4	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:29 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-Yy_4CEtAVgX?GYvzE_sroNh5MmR6q_WFaztZPVyAnK8

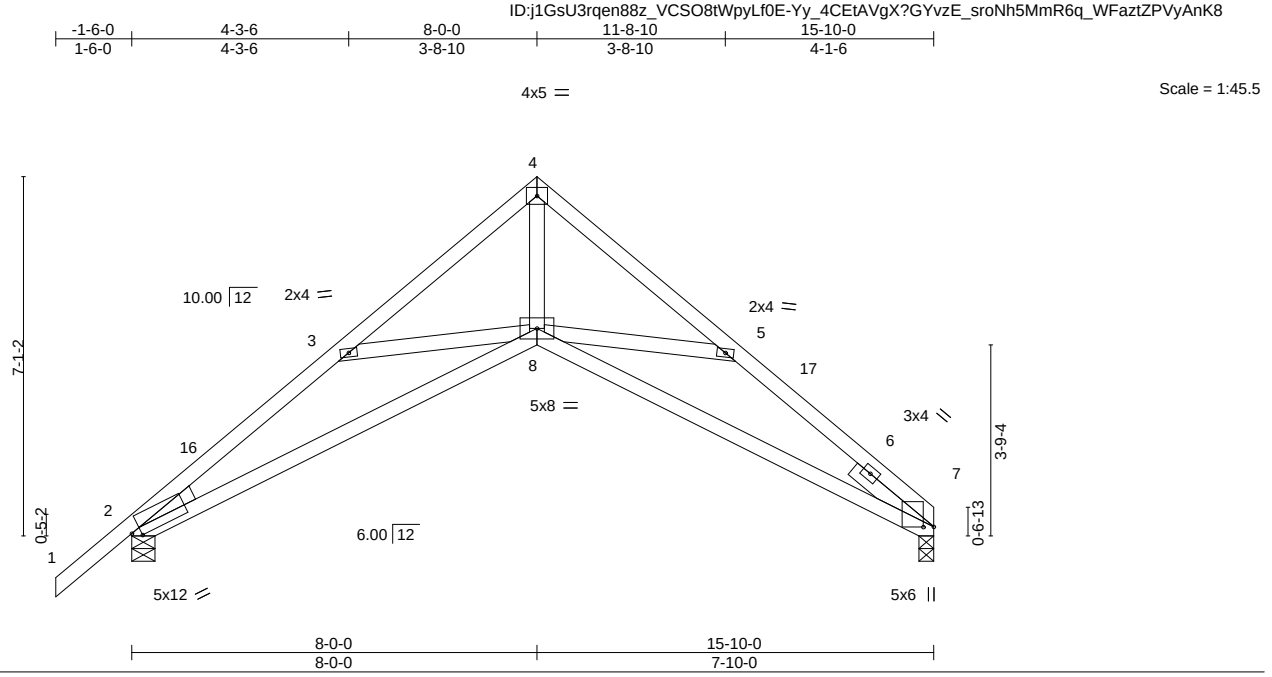

Plate Offsets (X,Y)-- [2:0-2-3,0-1-7], [7:0-0-1,0-2-8]

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	0.41	Vert(LL)	-0.11	8-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.24	8-15	>805	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.16	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 81 lb	FT = 20%

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

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

REACTIONS. (size) 7=0-3-8, 2=0-5-8
Max Horz 2=267(LC 9)
Max Uplift 7=-241(LC 13), 2=-307(LC 12)
Max Grav 7=582(LC 1), 2=671(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1464/736, 3-4=-1094/399, 4-5=-1132/442, 5-7=-1372/747
BOT CHORD 2-8=-689/1387, 7-8=-496/1164
WEBS 3-8=-385/437, 4-8=-383/1168, 5-8=-368/454

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 8-0-0, Zone2 8-0-0 to 11-11-13, Zone1 11-11-13 to 15-10-0 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) Bearing at joint(s) 7, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=241, 2=307.

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December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758834
4371416	T53	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:29 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-Yy_4CEtAVgX?GYvzE_sroNh4qmR8qvKFaztZPVyAnK8

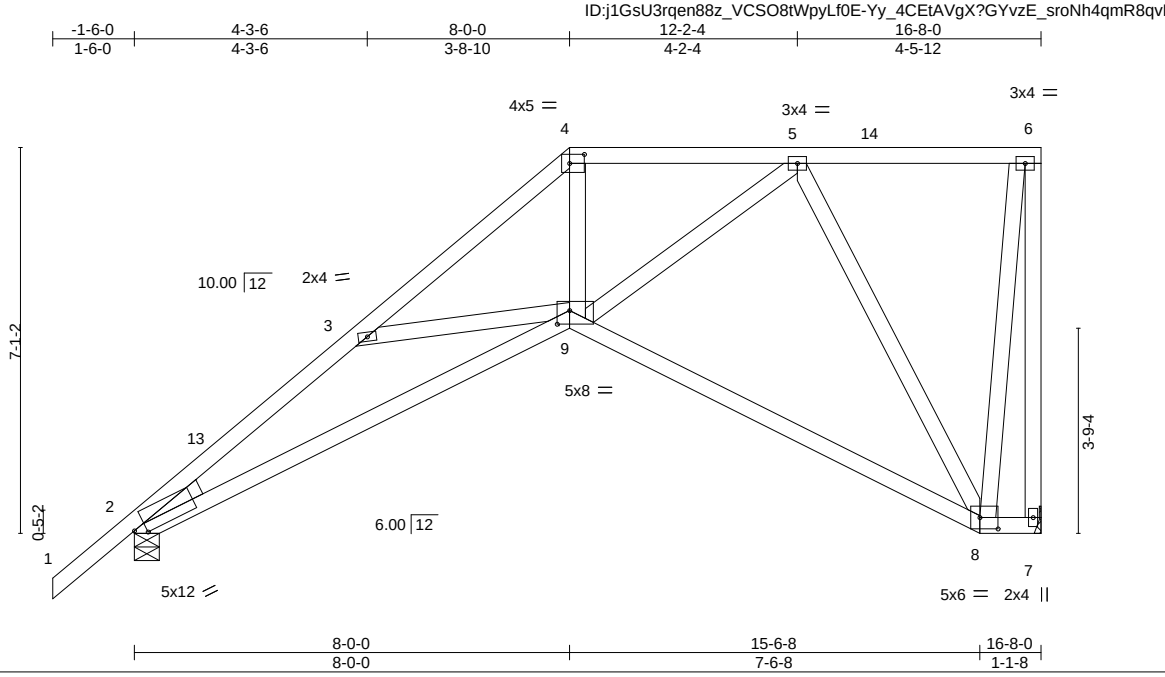

Plate Offsets (X,Y)-- [2:0-2-9,0-1-9], [4:0-3-4,0-2-0], [8:0-4-0,0-2-8], [9:0-2-12,0-3-0]

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	0.51	Vert(LL)	-0.13	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25	BC	0.62	Vert(CT)	-0.27	8-9	>728	180		
BCLL	0.0 *	Rep Stress Incr YES	WB	0.75	Horz(CT)	-0.13	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014	Matrix-MS							Weight: 109 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-3-3 oc bracing.

REACTIONS. (size) 7=Mechanical, 2=0-5-8
Max Horz 2=434(LC 12)
Max Uplift 7=-341(LC 9), 2=-308(LC 12)
Max Grav 7=608(LC 1), 2=696(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1501/1067, 3-4=-1170/757, 4-5=-856/665, 6-7=-633/313
BOT CHORD 2-9=-1199/1235, 8-9=-303/458
WEBS 3-9=-343/404, 4-9=-286/505, 5-9=-496/587, 5-8=-672/501, 6-8=-269/539

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=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 8-0-0, Zone2 8-0-0 to 12-2-4, Zone1 12-2-4 to 16-6-4 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) Refer to girder(s) for truss to truss connections.
8) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=341, 2=308.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 9,2024

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16023 Swingley Ridge Rd.
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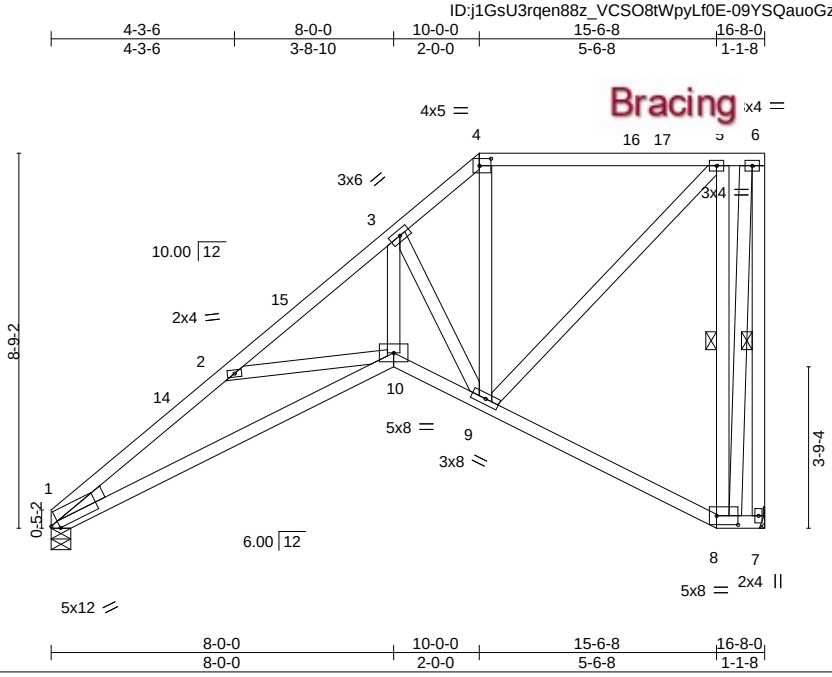
Job	Truss	Truss Type	Qty	Ply	NEYLON RES. T35758835
4371416	T54	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:30 2024 Page 1
ID:j1GsU3rqen88z_VCSO8tWpyLf0E-09YSQauoGzfrthU9niN4KaEFDAmqZOoOpdd6xxyAnK7



Scale = 1:53.8

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

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	0.47	Vert(LL)	0.14	10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25	BC	0.66	Vert(CT)	-0.26	10-13	>777	180		
BCLL	0.0 *	Rep Stress Incr YES	WB	0.61	Horz(CT)	-0.16	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014	Matrix-MS							Weight: 131 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-0-8 oc bracing.
WEBS 1 Row at midpt 6-7, 5-8

REACTIONS. (size) 1=0-5-8, 7=Mechanical
Max Horz 1=468(LC 12)
Max Uplift 1=-208(LC 12), 7=-403(LC 12)
Max Grav 1=611(LC 1), 7=611(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1525/1122, 2-3=-1195/816, 3-4=-592/433, 4-5=-433/368, 6-7=-586/370
BOT CHORD 1-10=-1356/1361, 9-10=-899/972
WEBS 2-10=-332/399, 3-10=-920/1069, 3-9=-1027/948, 5-9=-466/522, 5-8=-671/518, 6-8=-439/678

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 16-6-4 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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Bearing at joint(s) 1 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) 1=208, 7=403.

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Date:

December 9,2024

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Job	Truss	Truss Type	Qty	Ply	NEYLON RES.
4371416	TG01	FLAT	1	2	T35758836

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Oct 31 2024 MiTek Industries, Inc. Mon Dec 9 06:26:30 2024 Page 1
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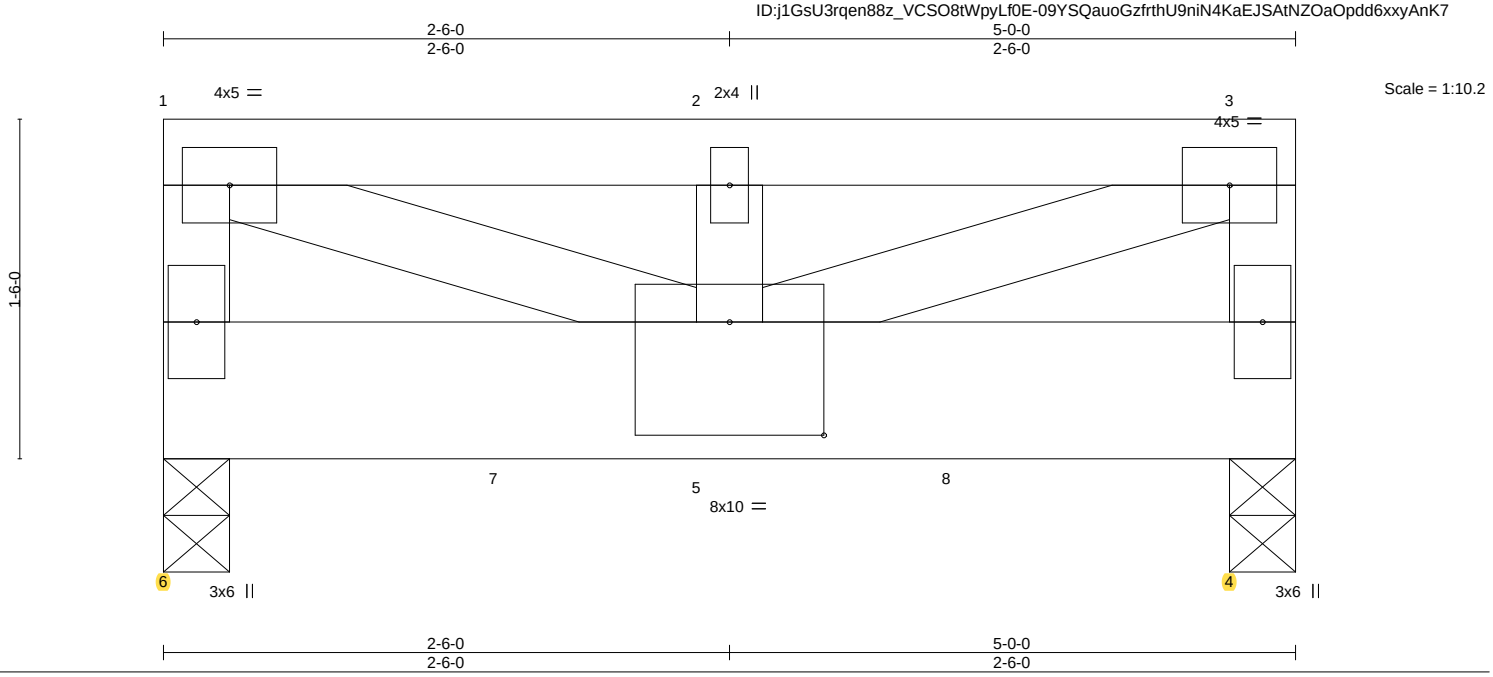

Plate Offsets (X,Y)-- [5:0-5-0,0-6-0]

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	0.20	Vert(LL)	-0.02	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.03	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.62	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 64 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3

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

REACTIONS. (size) 6=0-3-8, 4=0-3-8
Max Uplift 6=-1488(LC 4), 4=-1674(LC 4)
Max Grav 6=2765(LC 2), 4=3068(LC 2)

THIS TRUSS IS DESIGNED TO BE USED FOR ROOF APPLICATION ONLY.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-1431/794, 1-2=-2977/1608, 2-3=-2977/1608, 3-4=-1431/794
WEBS 1-5=-1762/3261, 3-5=-1762/3261

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: 2x8 - 2 rows staggered at 0-4-0 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) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=35ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
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) 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) 6=1488, 4=1674.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2697 lb down and 1432 lb up at 1-7-4, and 2834 lb down and 1563 lb up at 3-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 4-6=-20
Concentrated Loads (lb)
Vert: 7=-2599(F) 8=-2744(F)

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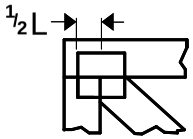
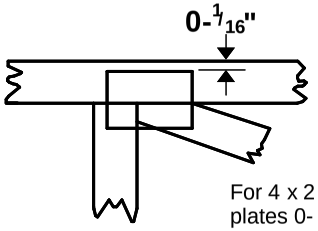
Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

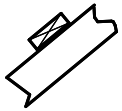
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

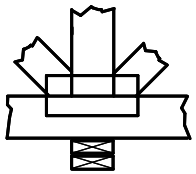
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

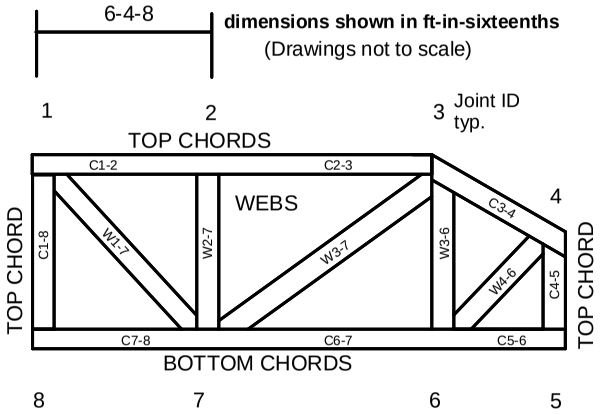


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

MiTek®

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.