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

RE: 4177528 - IC CONST. - LIPPI RES.

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

Site Information:

Customer Info: IC CONSTRUCTION Project Name: Lippi Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
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: N/A psf

This package includes 65 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.

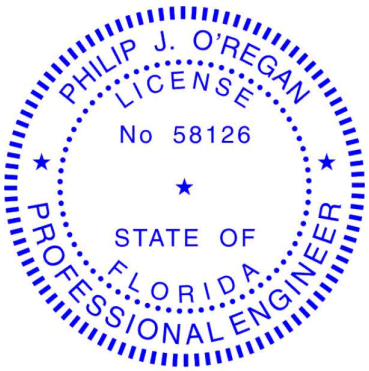
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T34843208	CJ01	8/27/24	15	T34843222	EJ03	8/27/24
2	T34843209	CJ02	8/27/24	16	T34843223	EJ04	8/27/24
3	T34843210	CJ02A	8/27/24	17	T34843224	EJ05	8/27/24
4	T34843211	CJ03	8/27/24	18	T34843225	EJ06	8/27/24
5	T34843212	CJ03A	8/27/24	19	T34843226	EJ06G	8/27/24
6	T34843213	CJ03B	8/27/24	20	T34843227	HJ02	8/27/24
7	T34843214	CJ04	8/27/24	21	T34843228	HJ03	8/27/24
8	T34843215	CJ04A	8/27/24	22	T34843229	HJ09	8/27/24
9	T34843216	CJ04B	8/27/24	23	T34843230	HJ09A	8/27/24
10	T34843217	CJ04C	8/27/24	24	T34843231	HJ11	8/27/24
11	T34843218	CJ05	8/27/24	25	T34843232	PB01	8/27/24
12	T34843219	CJ06	8/27/24	26	T34843233	PB01A	8/27/24
13	T34843220	EJ01	8/27/24	27	T34843234	PB02	8/27/24
14	T34843221	EJ02	8/27/24	28	T34843235	PB02G	8/27/24

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

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

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

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



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

August 27,2024

RE: 4177528 - IC CONST. - LIPPI RES.

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

Site Information:

Customer Info: IC CONSTRUCTION Project Name: Lippi Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
29	T34843236	PB03	8/27/24
30	T34843237	T01	8/27/24
31	T34843238	T01G	8/27/24
32	T34843239	T02	8/27/24
33	T34843240	T02G	8/27/24
34	T34843241	T03	8/27/24
35	T34843242	T04	8/27/24
36	T34843243	T05	8/27/24
37	T34843244	T06	8/27/24
38	T34843245	T07	8/27/24
39	T34843246	T08	8/27/24
40	T34843247	T09	8/27/24
41	T34843248	T10	8/27/24
42	T34843249	T11	8/27/24
43	T34843250	T12	8/27/24
44	T34843251	T13	8/27/24
45	T34843252	T14	8/27/24
46	T34843253	T15	8/27/24
47	T34843254	T16	8/27/24
48	T34843255	T17	8/27/24
49	T34843256	T18	8/27/24
50	T34843257	T19	8/27/24
51	T34843258	T20	8/27/24
52	T34843259	T20G	8/27/24
53	T34843260	T21	8/27/24
54	T34843261	T22	8/27/24
55	T34843262	T22G	8/27/24
56	T34843263	T23	8/27/24
57	T34843264	T24	8/27/24
58	T34843265	T24G	8/27/24
59	T34843266	T25	8/27/24
60	T34843267	T25G	8/27/24
61	T34843268	T26	8/27/24
62	T34843269	T26G	8/27/24
63	T34843270	T27	8/27/24
64	T34843271	T27G	8/27/24
65	T34843272	T28	8/27/24

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	CJ01	Jack-Open	1	1	T34843208
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:24 2024 Page 1
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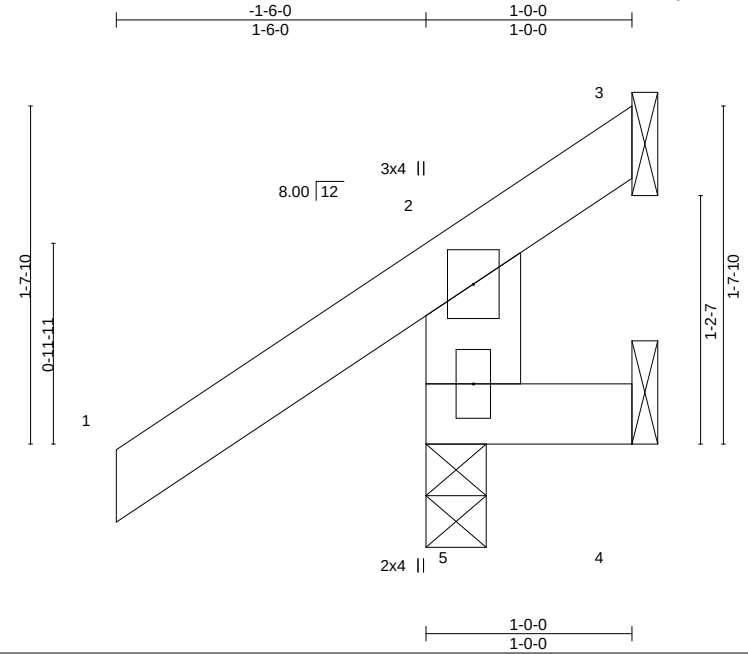

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MR							Weight: 8 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=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=47(LC 12)
Max Uplift 5=-68(LC 12), 3=-44(LC 1), 4=-35(LC 1)
Max Grav 5=228(LC 1), 3=10(LC 16), 4=10(LC 16)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; 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) 5, 3, 4.

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

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

August 27,2024

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

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	CJ02	Jack-Open	2	1	T34843209
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:25 2024 Page 1
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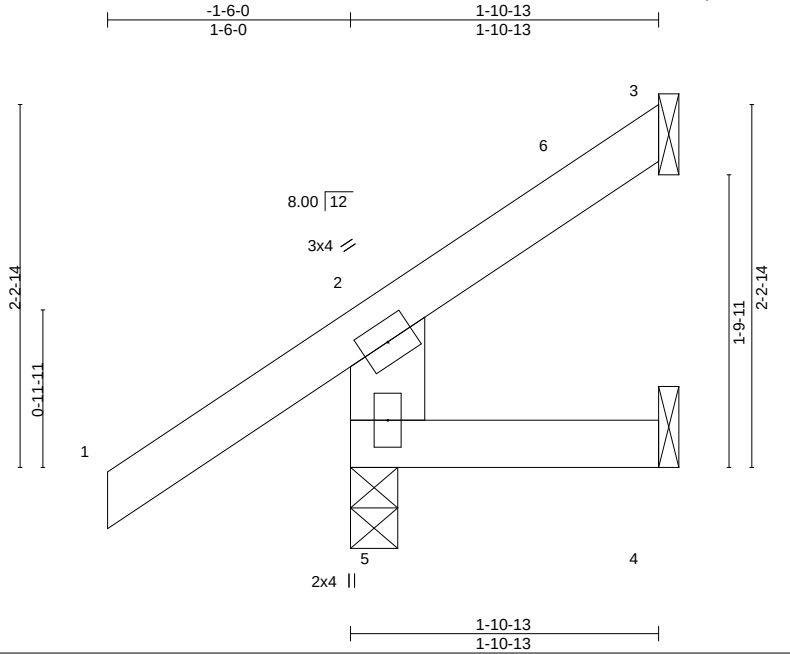

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MR							Weight: 11 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 1-10-13 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, 4=Mechanical
Max Horz 5=70(LC 12)
Max Uplift 5=-47(LC 12), 3=-32(LC 12), 4=-5(LC 9)
Max Grav 5=203(LC 1), 3=26(LC 19), 4=25(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 1-10-11 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) 5, 3, 4.

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

August 27,2024

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

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	CJ02A	Jack-Open	1	1	T34843210
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:25 2024 Page 1
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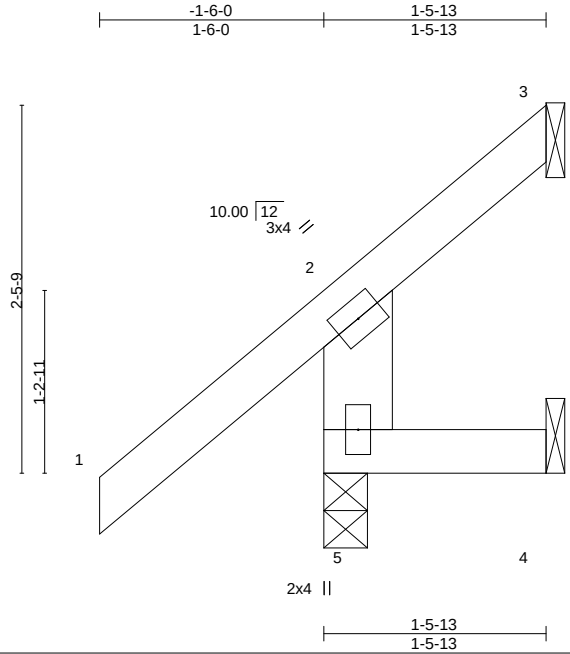

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MR							Weight: 11 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 1-5-13 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, 4=Mechanical
Max Horz 5=73(LC 12)
Max Uplift 5=-28(LC 12), 3=-31(LC 12), 4=-16(LC 9)
Max Grav 5=204(LC 1), 3=18(LC 10), 4=19(LC 10)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; 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) 5, 3, 4.

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

August 27,2024

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

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES. T34843211
4177528	CJ03	Jack-Open	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:26 2024 Page 1
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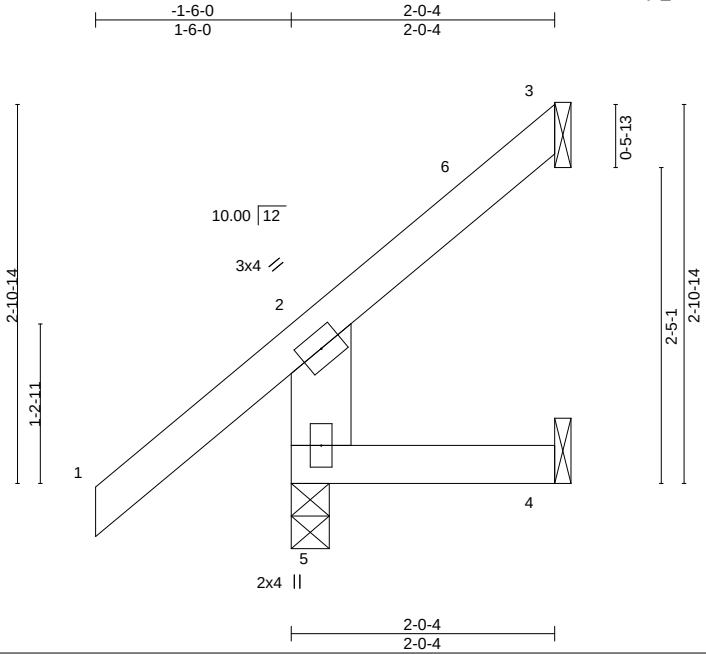

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MR							Weight: 12 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 2-0-4 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, 4=Mechanical
Max Horz 5=89(LC 12)
Max Uplift 5=-22(LC 12), 3=-48(LC 12), 4=-15(LC 12)
Max Grav 5=204(LC 1), 3=33(LC 19), 4=27(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 1-11-8 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) 5, 3, 4.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 27,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	CJ03A	Jack-Open	1	1	T34843212
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:26 2024 Page 1
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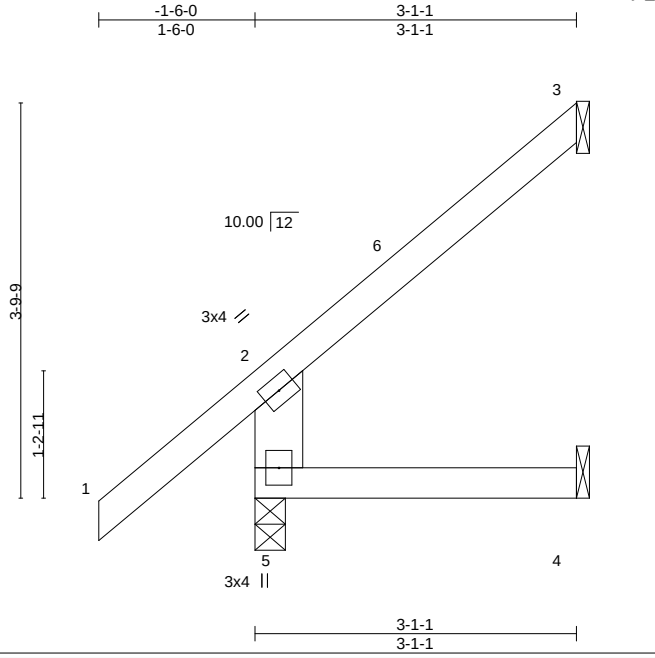

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	-0.01	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		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 3-1-1 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, 4=Mechanical
Max Horz 5=123(LC 12)
Max Uplift 5=-14(LC 12), 3=-78(LC 12), 4=-18(LC 12)
Max Grav 5=226(LC 1), 3=71(LC 19), 4=49(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 3-0-5 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) 5, 3, 4.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 27,2024

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	CJ03B	Jack-Open	1	1	T34843213
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:26 2024 Page 1
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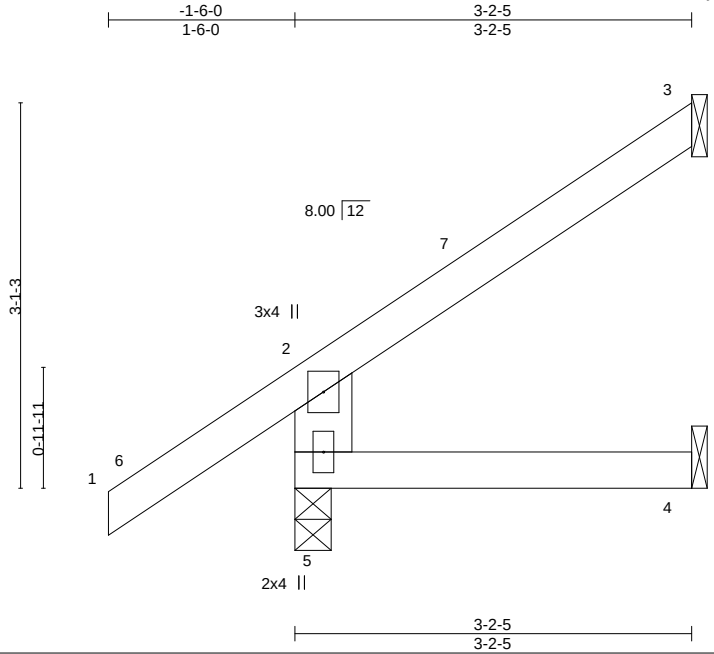

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	-0.01	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MR							Weight: 15 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 3-2-5 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, 4=Mechanical
Max Horz 5=102(LC 12)
Max Uplift 5=-43(LC 12), 3=-63(LC 12), 4=-7(LC 12)
Max Grav 5=229(LC 1), 3=69(LC 19), 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=20ft; Cat. II; Exp B; 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 3-1-9 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) 5, 3, 4.

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

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

August 27,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	CJ04	Jack-Open	1	1	T34843214
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:27 2024 Page 1
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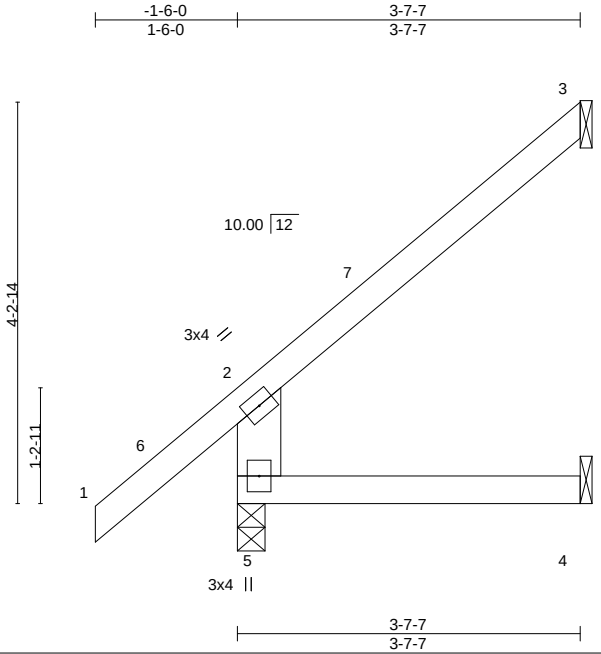

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	0.02	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	0.02	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MR							Weight: 18 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 3-7-7 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, 4=Mechanical
Max Horz 5=140(LC 12)
Max Uplift 5=-12(LC 12), 3=-92(LC 12), 4=-19(LC 12)
Max Grav 5=241(LC 1), 3=88(LC 19), 4=60(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 3-6-11 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) 5, 3, 4.

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August 27,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES. T34843215
4177528	CJ04A	Jack-Open	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:27 2024 Page 1
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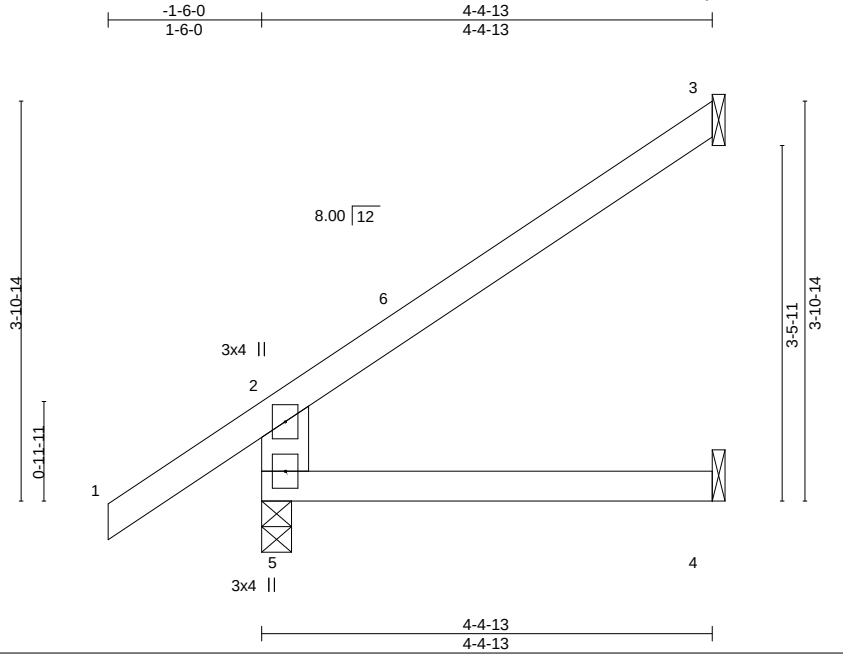

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	0.02	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.03	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MR							Weight: 19 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 4-4-13 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, 4=Mechanical
Max Horz 5=133(LC 12)
Max Uplift 5=-44(LC 12), 3=-89(LC 12), 4=-9(LC 12)
Max Grav 5=265(LC 1), 3=105(LC 19), 4=75(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-4-1 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) 5, 3, 4.

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August 27,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	CJ04B	Jack-Open	1	1	T34843216
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:27 2024 Page 1
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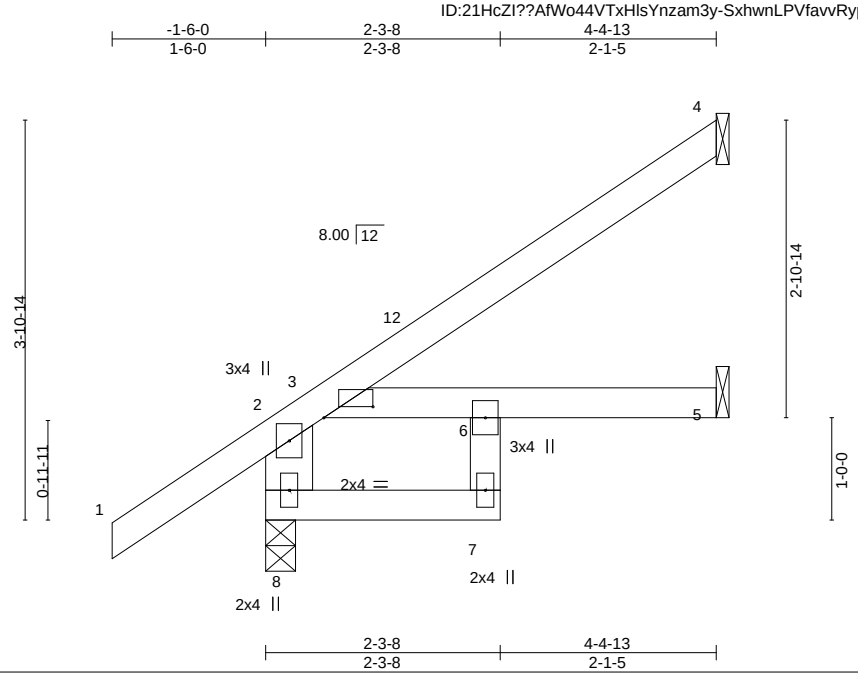

Plate Offsets (X,Y)-- [3:0-5-12,0-1-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	0.02	6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	-0.03	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MR							Weight: 22 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 8=133(LC 12)
Max Uplift 8=-37(LC 12), 4=-72(LC 12), 5=-24(LC 12)
Max Grav 8=288(LC 1), 4=94(LC 19), 5=88(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-252/185

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-4-1 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) 8, 4, 5.

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Date:

August 27,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	CJ04C	Jack-Open	1	1	T34843217
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:28 2024 Page 1
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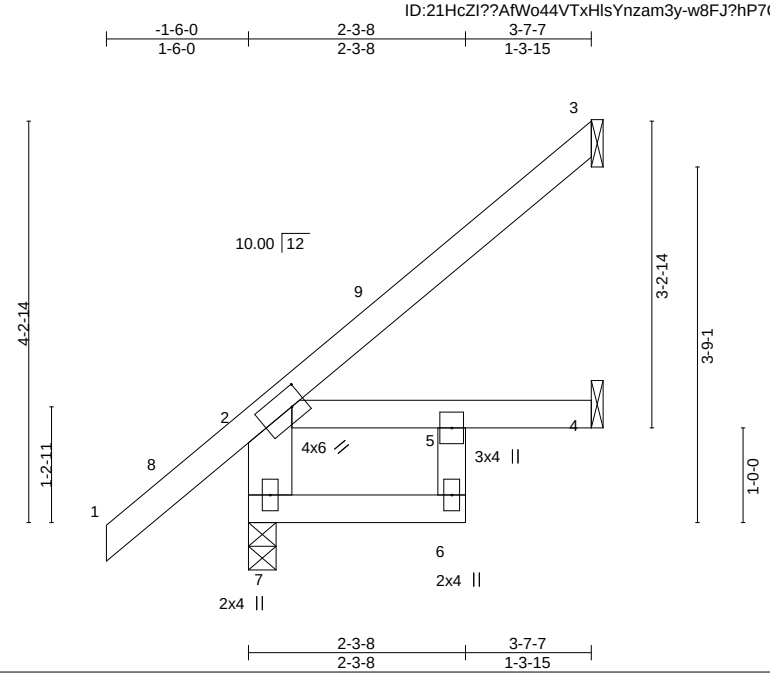

Plate Offsets (X,Y)-- [2:0-1-12,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.01	6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.01	6	>999	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-MR							Weight: 22 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
5-6: 2x4 SP No.3
WEBS 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 7=140(LC 12)
Max Uplift 7=-4(LC 12), 3=-76(LC 12), 4=-32(LC 12)
Max Grav 7=268(LC 1), 3=81(LC 19), 4=83(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 3-6-11 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) 7, 3, 4.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 27,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	CJ05	Jack-Open	1	1	T34843218
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:28 2024 Page 1
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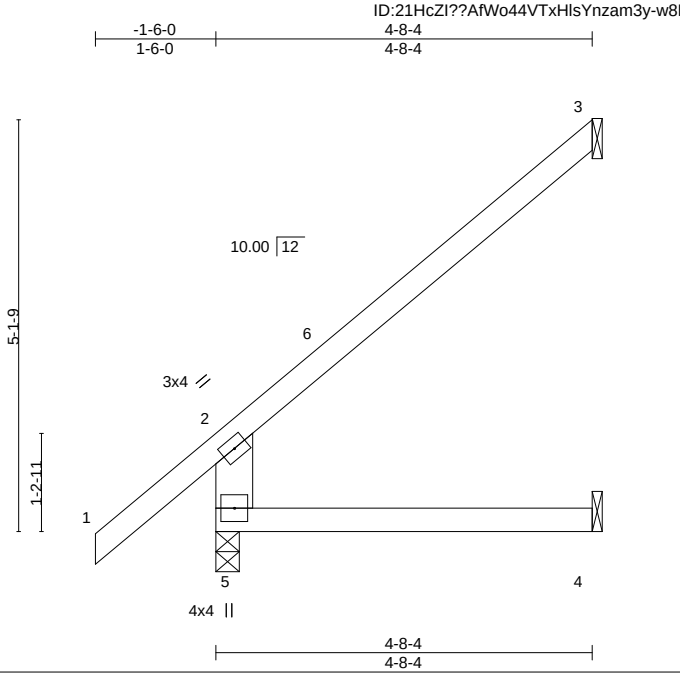

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	0.05	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.04	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.06	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MR							Weight: 21 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-4 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, 4=Mechanical
Max Horz 5=175(LC 12)
Max Uplift 5=-8(LC 12), 3=-119(LC 12), 4=-21(LC 12)
Max Grav 5=274(LC 1), 3=120(LC 19), 4=81(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-7-8 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) 5, 4 except (jt=lb) 3=119.

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	CJ06	Jack-Open	1	1	T34843219
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:29 2024 Page 1
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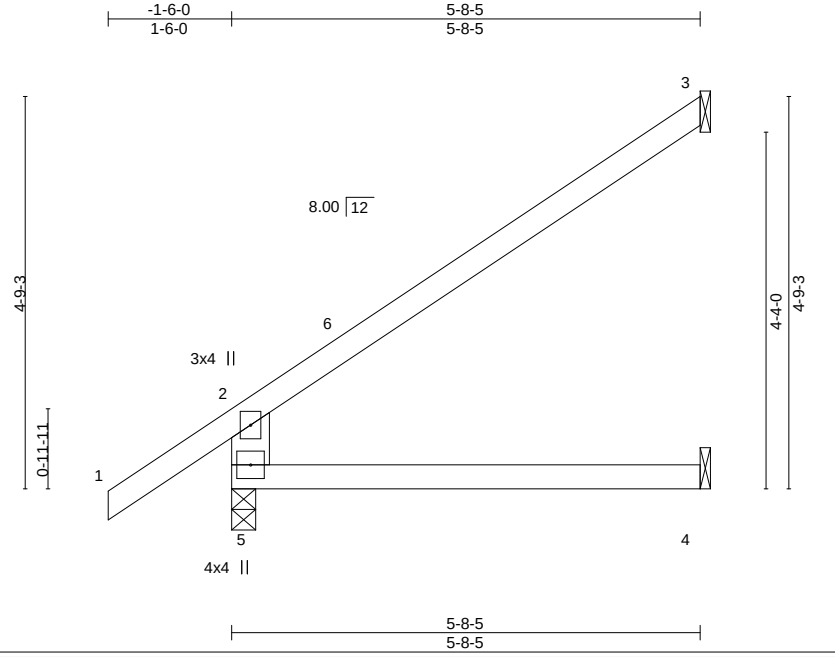

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.46	Vert(LL)	0.06	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.08	4-5	>788	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.05	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MR							Weight: 23 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 5-8-5 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, 4=Mechanical
Max Horz 5=166(LC 12)
Max Uplift 5=-47(LC 12), 3=-116(LC 12), 4=-10(LC 12)
Max Grav 5=308(LC 1), 3=141(LC 19), 4=99(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-259/212

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 5-7-9 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) 5, 4 except (jt=lb) 3=116.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 27,2024

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	EJ01	Jack-Partial	5	1	T34843220
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:29 2024 Page 1
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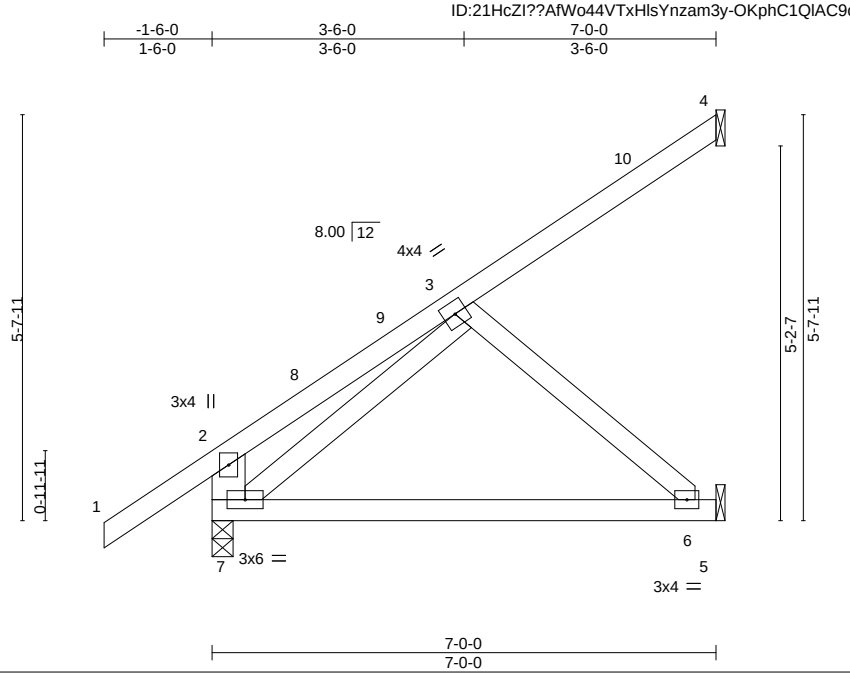

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	-0.08	6-7	>957	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.17	6-7	>472	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 40 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *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=0-3-8
Max Horz 7=193(LC 12)
Max Uplift 4=-54(LC 12), 5=-85(LC 12), 7=-55(LC 12)
Max Grav 4=87(LC 19), 5=174(LC 19), 7=354(LC 1)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone 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 100 lb uplift at joint(s) 4, 5, 7.

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	EJ02	Jack-Partial	4	1	T34843221
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:29 2024 Page 1
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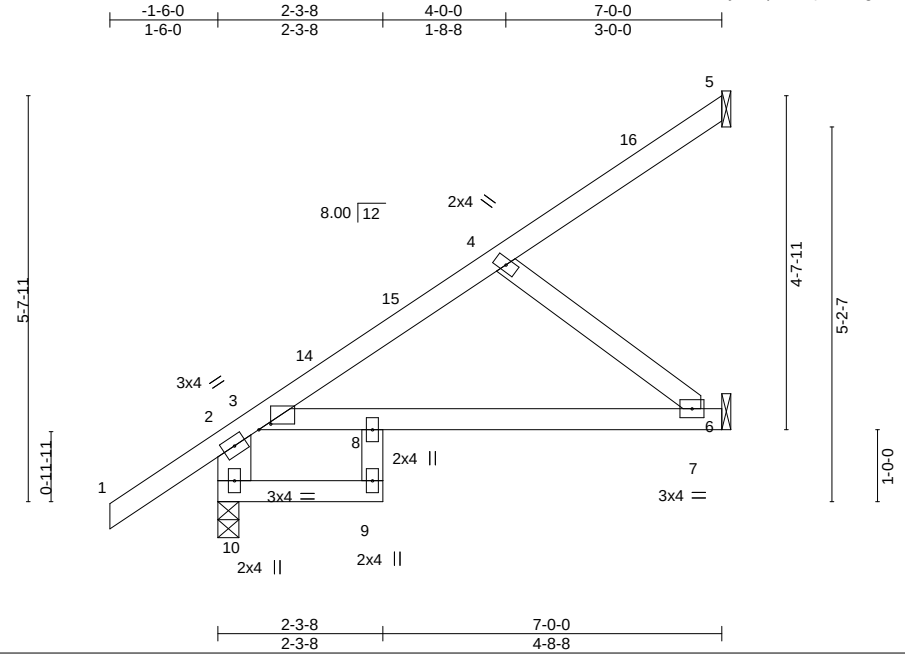

Plate Offsets (X,Y)-- [3:0-2-0,0-0-15]

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)	-0.06	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.13	7-8	>631	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 36 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
8-9: 2x4 SP No.3
WEBS 2x6 SP No.2 *Except*
4-7: 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, Except: 6-0-0 oc bracing: 9-10.

REACTIONS. (size) 10=0-3-8, 5=Mechanical, 6=Mechanical
Max Horz 10=193(LC 12)
Max Uplift 10=-55(LC 12), 5=-39(LC 12), 6=-100(LC 12)
Max Grav 10=354(LC 1), 5=61(LC 19), 6=200(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-326/187

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 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 100 lb uplift at joint(s) 10, 5 except (jt=lb) 6=100.

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August 27,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	EJ03	Jack-Open	1	1	T34843222
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:30 2024 Page 1
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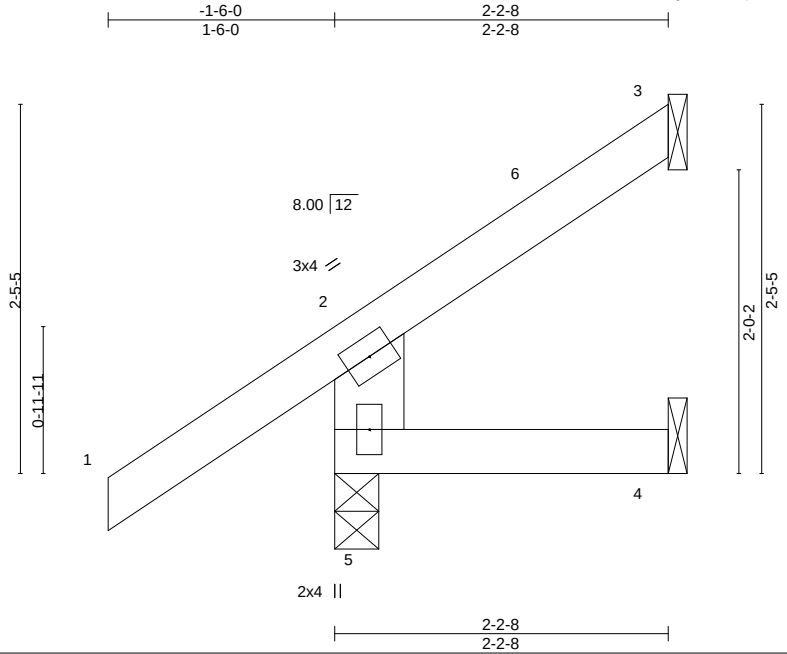

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MR							Weight: 12 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 2-2-8 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, 4=Mechanical
Max Horz 5=77(LC 12)
Max Uplift 5=-46(LC 12), 3=-39(LC 12), 4=-4(LC 9)
Max Grav 5=206(LC 1), 3=36(LC 19), 4=31(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 2-1-12 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) 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) 5, 3, 4.

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES. T34843223
4177528	EJ04	Jack-Open	2	1	Job Reference (optional)

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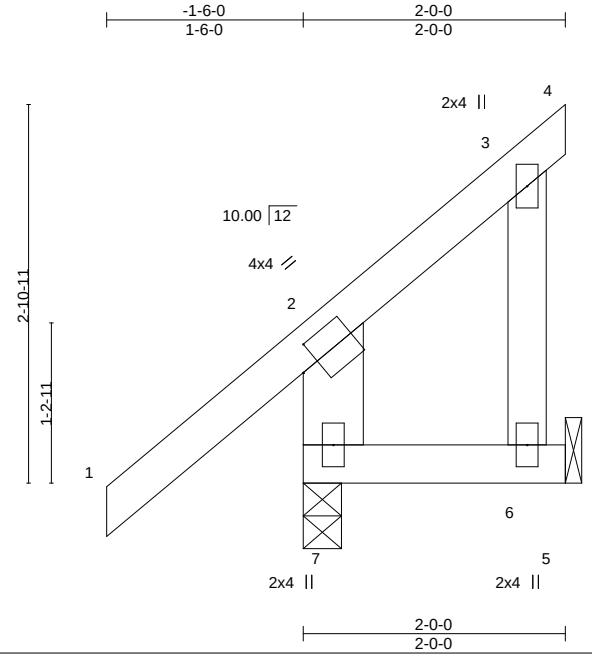

Plate Offsets (X,Y)-- [2:0-1-11,0-2-0]

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	0.35	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	-0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 15 lb	FT = 20%

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

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

REACTIONS. (size) 7=0-3-8, 5=Mechanical
Max Horz 7=89(LC 12)
Max Uplift 7=-22(LC 12), 5=-61(LC 12)
Max Grav 7=203(LC 1), 5=36(LC 10)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; end vertical left exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) 7, 5.

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES. T34843224
4177528	EJ05	Jack-Open	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:30 2024 Page 1
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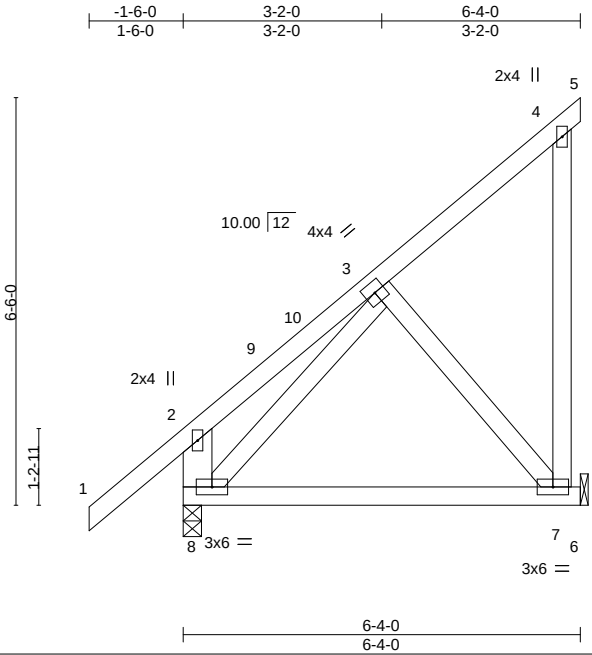

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	-0.07	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	-0.14	7-8	>513	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	-0.00	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 48 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 10-0-0 oc bracing.

REACTIONS. (size) 7=Mechanical, 8=0-3-8
Max Horz 8=226(LC 12)
Max Uplift 7=-186(LC 12)
Max Grav 7=250(LC 19), 8=322(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-203/409, 2-3=-89/277
WEBS 3-8=-349/62

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-4-0 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) except (jt=lb) 7=186.

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	EJ06	Jack-Closed	6	1	T34843225
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:31 2024 Page 1
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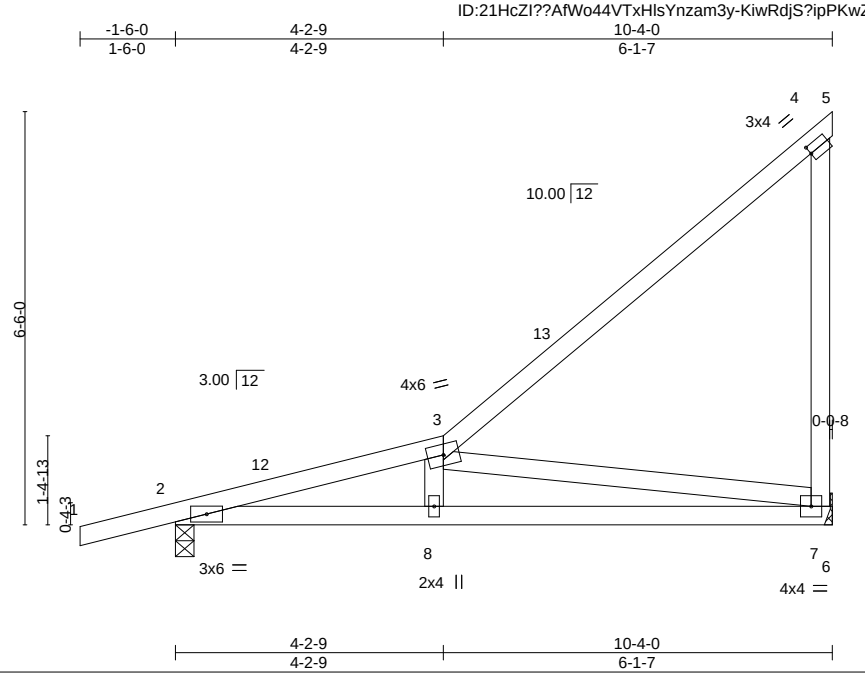

Plate Offsets (X,Y)-- [4:0-0-1,0-1-8]

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	0.55	Vert(LL)	-0.05	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.11	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 55 lb	FT = 20%

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

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

REACTIONS. (size) 7=Mechanical, 2=0-3-8
Max Horz 2=206(LC 12)
Max Uplift 7=-137(LC 12), 2=-124(LC 8)
Max Grav 7=376(LC 1), 2=462(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-937/55, 4-7=-170/251
BOT CHORD 2-8=-317/898, 7-8=-325/884
WEBS 3-7=-877/305

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 10-4-0 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(s) except (jt=lb) 7=137, 2=124.

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	EJ06G	Jack-Closed Structural Gable	1	1	T34843226
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:31 2024 Page 1
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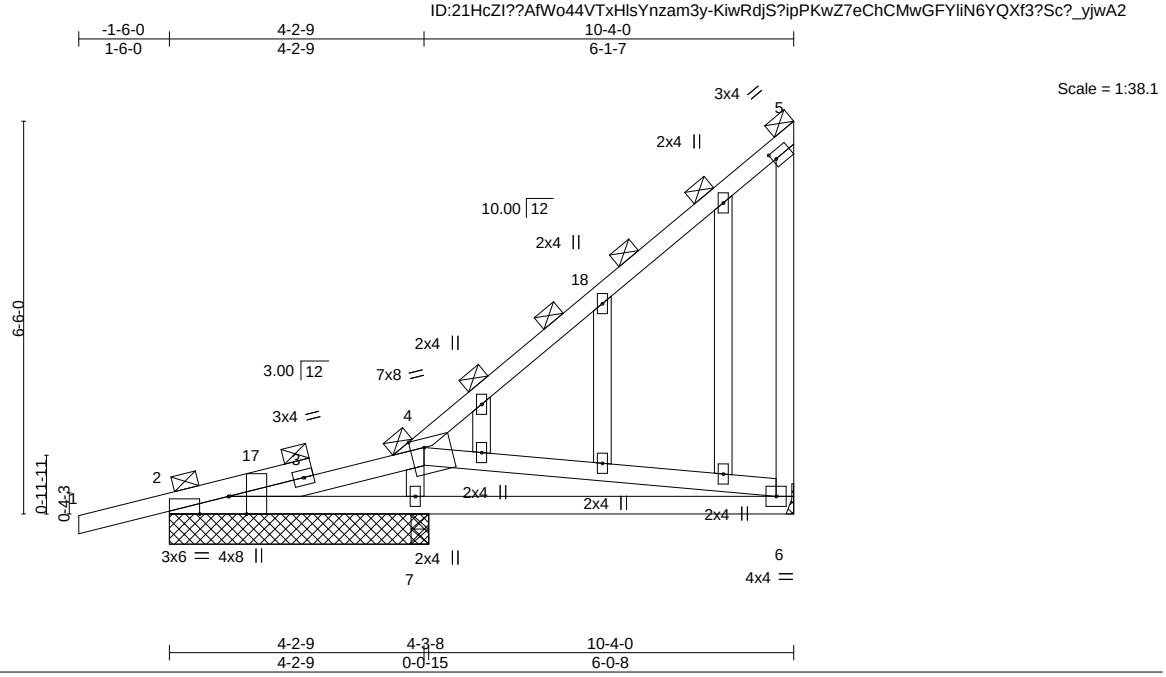

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-5-12,Edge], [4:0-2-12,0-1-12], [5:0-0-11,0-1-8]

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)	-0.04	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.08	6-7	>960	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 70 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 (6-0-0 max.), except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-3-8 except (jt=length) 6=Mechanical.
(lb) - Max Horz 2=244(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 7 except 2=-130(LC 8), 6=-157(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 2 except 7=424(LC 1), 7=424(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-169/308
WEBS 4-7=-293/169

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 10-2-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable studs spaced at 2-0-0 oc.
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) 7 except (jt=lb) 2=130, 6=157, 2=130.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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Date:

August 27,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	HJ02	Diagonal Hip Girder	1	1	T34843227
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:32 2024 Page 1
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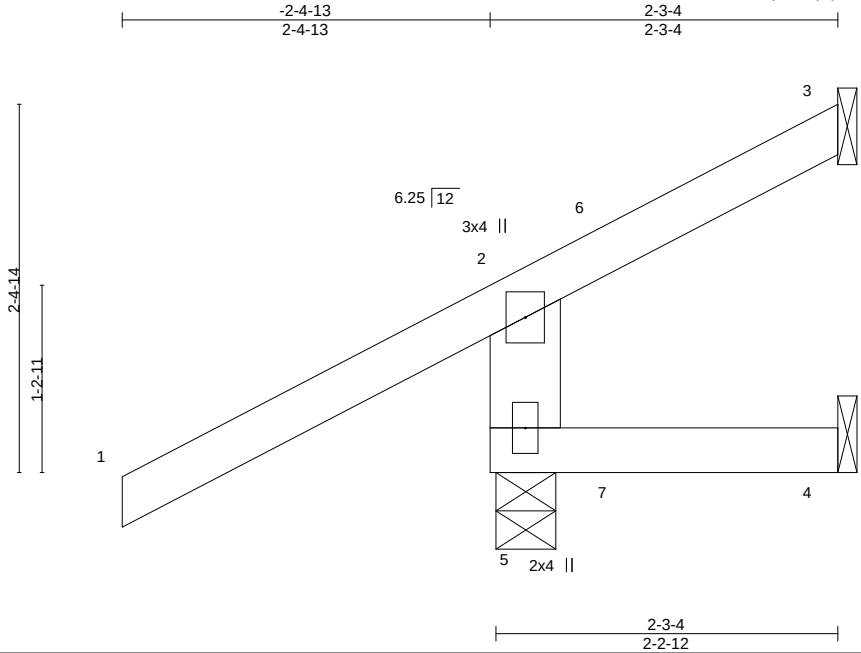

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	0.01	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MR							Weight: 13 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 2-3-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-11, 3=Mechanical, 4=Mechanical
Max Horz 5=85(LC 8)
Max Uplift 5=-85(LC 8), 3=-37(LC 21), 4=-42(LC 21)
Max Grav 5=272(LC 1), 3=14(LC 25), 4=19(LC 33)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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 100 lb uplift at joint(s) 5, 3, 4.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 61 lb down and 123 lb up at 0-10-7 on top chord, and 7 lb down and 55 lb up at 0-10-7 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, 4-5=-20
Concentrated Loads (lb)
Vert: 6=31(B) 7=24(B)

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Date:

August 27,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	HJ03	Jack-Open Girder	1	1	T34843228
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:32 2024 Page 1
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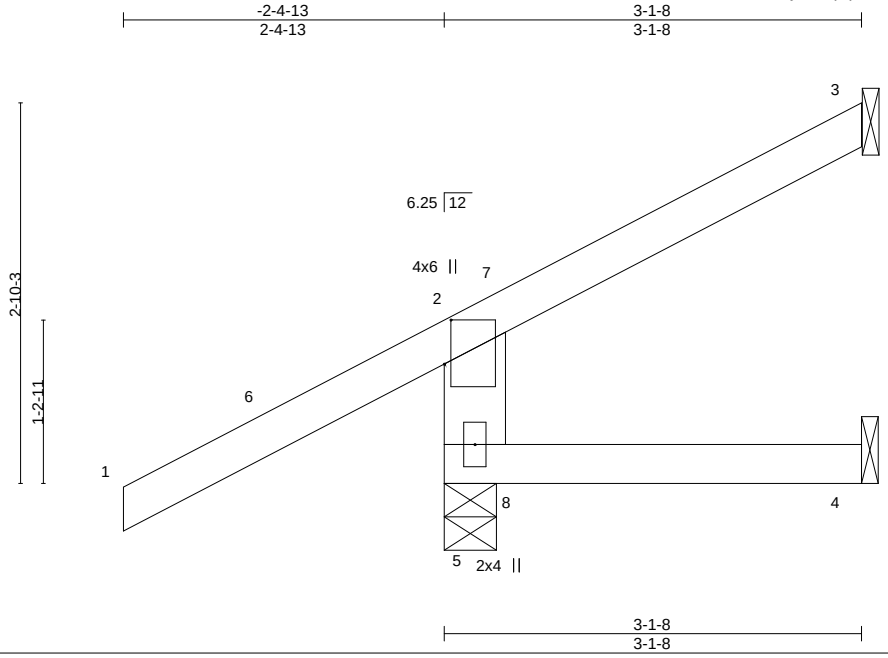

Plate Offsets (X,Y)-- [2:0-3-15,0-0-10]

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	0.65	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	0.01	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	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 3-1-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-11, 3=Mechanical, 4=Mechanical
Max Horz 5=88(LC 12)
Max Uplift 5=-91(LC 12), 3=-45(LC 12), 4=-24(LC 9)
Max Grav 5=313(LC 1), 3=35(LC 1), 4=45(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-260/271

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-4-13 to 0-7-3, Zone1 0-7-3 to 3-0-12 zone; end vertical left exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) 5, 3, 4.

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	HJ09	Diagonal Hip Girder	1	1	T34843229
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:33 2024 Page 1
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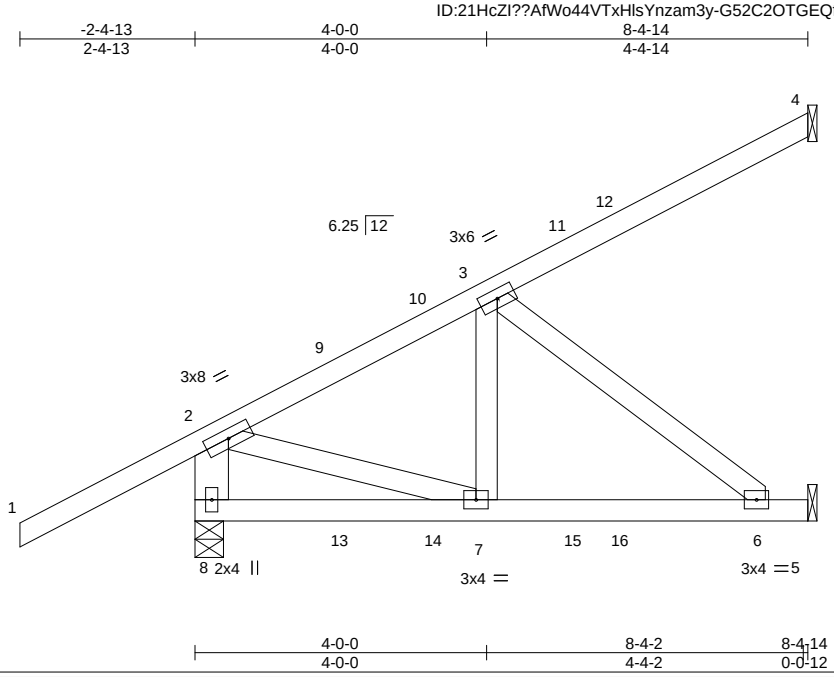

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	0.04	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.34	Vert(CT)	-0.05	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.17	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 49 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *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=0-4-11, 4=Mechanical, 5=Mechanical
Max Horz 8=180(LC 8)
Max Uplift 8=-182(LC 8), 4=-79(LC 10), 5=-151(LC 8)
Max Grav 8=459(LC 1), 4=101(LC 35), 5=233(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-441/197, 2-3=-398/156
BOT CHORD 6-7=-225/283
WEBS 2-7=-187/368, 3-6=-359/285

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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 100 lb uplift at joint(s) 4 except (jt=lb) 8=182, 5=151.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 87 lb down and 41 lb up at 2-0-5, 81 lb down and 56 lb up at 3-3-12, and 112 lb down and 110 lb up at 5-2-12, and 96 lb down and 108 lb up at 5-10-8 on top chord, and 13 lb down and 13 lb up at 2-0-5, 20 lb down and 20 lb up at 3-3-12, and 40 lb down and 20 lb up at 5-2-12, and 38 lb down and 28 lb up at 5-10-8 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: 11=-5(B) 12=-3(F) 13=10(B) 14=9(F) 15=-9(B) 16=-4(F)

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Date:

August 27,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	HJ09A	Diagonal Hip Girder	1	1	T34843230
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:33 2024 Page 1
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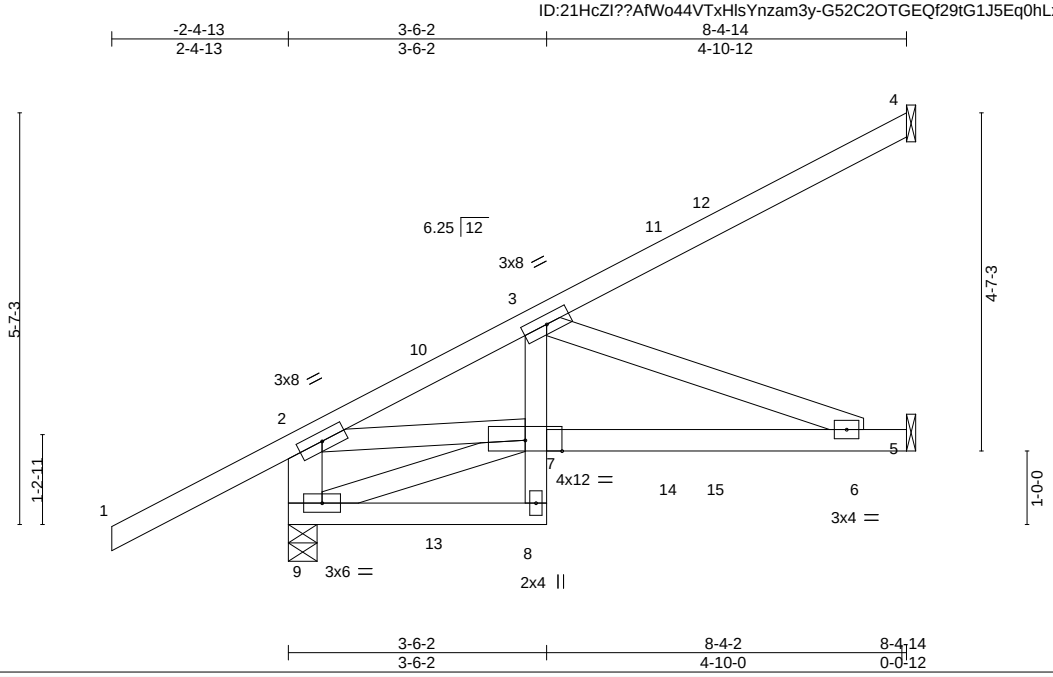

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	0.08	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.11	6-7	>875	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.28	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 52 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-8: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
2-9: 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) 4=Mechanical, 5=Mechanical, 9=0-4-11
Max Horz 9=180(LC 29)
Max Uplift 4=-81(LC 10), 5=-144(LC 8), 9=-180(LC 8)
Max Grav 4=112(LC 1), 5=238(LC 35), 9=468(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-409/221, 2-3=-583/285
BOT CHORD 3-7=-120/256, 6-7=-442/573
WEBS 2-7=-269/529, 3-6=-607/469

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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 100 lb uplift at joint(s) 4 except (jt=lb) 5=144, 9=180.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 87 lb down and 41 lb up at 2-0-5, 81 lb down and 56 lb up at 3-3-12, and 104 lb down and 92 lb up at 5-2-12, and 85 lb down and 92 lb up at 5-10-8 on top chord, and 13 lb down and 13 lb up at 2-0-5, 20 lb down and 20 lb up at 3-4-6, and 57 lb down and 38 lb up at 5-2-12, and 60 lb down and 44 lb up at 5-10-8 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, 8-9=-20, 5-7=-20
Concentrated Loads (lb)
Vert: 8=9(B) 11=-5(F) 12=-2(B) 13=10(F) 14=-24(F) 15=-15(B)

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	HJ11	Diagonal Hip Girder	1	1	T34843231
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:34 2024 Page 1
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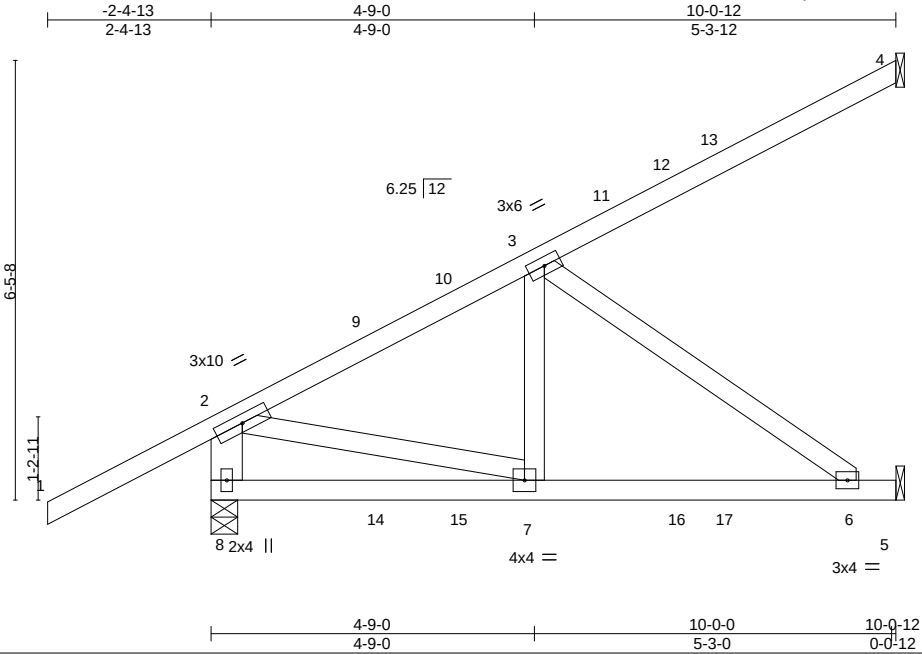

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	0.09	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.13	6-7	>926	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.31	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 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=0-4-11, 4=Mechanical, 5=Mechanical
Max Horz 8=203(LC 8)
Max Uplift 8=-264(LC 8), 4=-121(LC 10), 5=-222(LC 8)
Max Grav 8=539(LC 1), 4=142(LC 1), 5=311(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-515/273, 2-3=-505/275
BOT CHORD 6-7=-346/389
WEBS 2-7=-295/507, 3-6=-478/426

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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 100 lb uplift at joint(s) except (jt=lb) 8=264, 4=121, 5=222.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 85 lb up at 2-5-8, 98 lb down and 78 lb up at 3-8-2, 92 lb down and 92 lb up at 5-0-4, and 123 lb down and 142 lb up at 6-10-9, and 106 lb down and 140 lb up at 7-7-0 on top chord, and 18 lb down and 48 lb up at 2-5-8, 27 lb down and 14 lb up at 3-8-2, 32 lb down and 24 lb up at 5-0-4, and 55 lb down and 27 lb up at 6-10-9, and 50 lb down and 34 lb up at 7-7-0 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=3(B) 9=18(B) 12=-39(F) 13=-30(B) 15=2(F) 16=-27(F) 17=-20(B)

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Date:

August 27,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	PB01	Piggyback	3	1	T34843232
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:34 2024 Page 1
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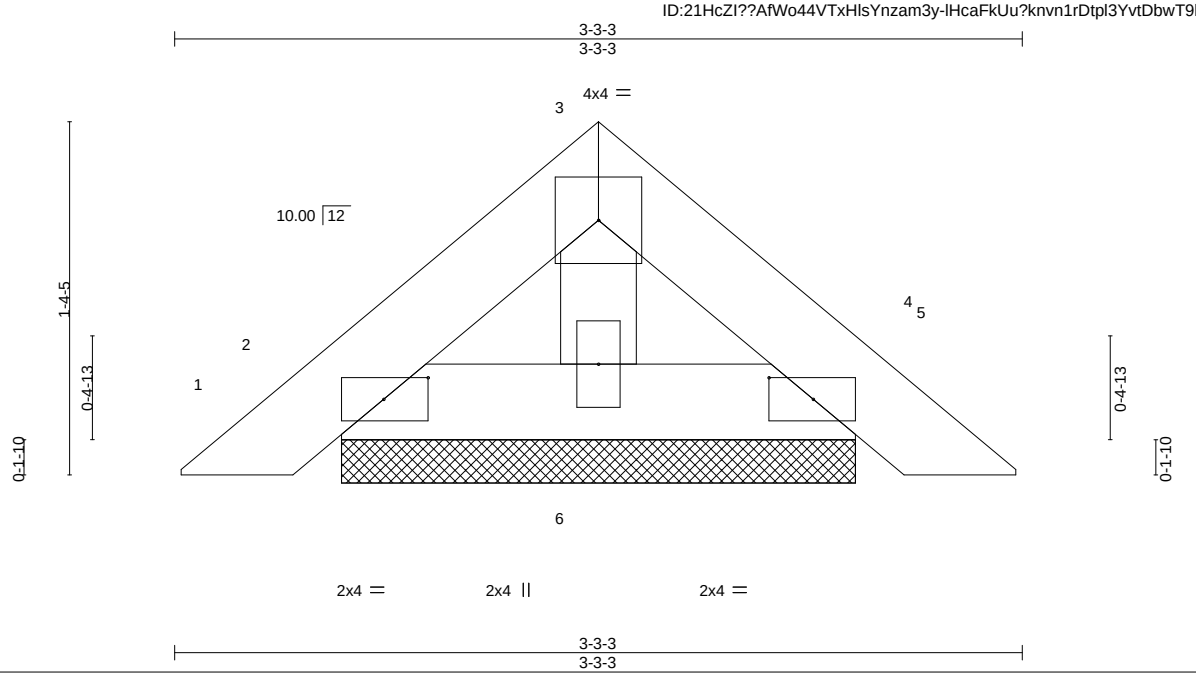

Plate Offsets (X,Y)-- [2:0-2-1,0-1-0], [4:0-2-1,0-1-0]

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	0.02	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.01	Vert(CT)	0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 10 lb	FT = 20%

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

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

REACTIONS. (size) 2=1-11-12, 4=1-11-12, 6=1-11-12
Max Horz 2=-29(LC 10)
Max Uplift 2=-27(LC 12), 4=-30(LC 13), 6=-2(LC 12)
Max Grav 2=66(LC 1), 4=66(LC 1), 6=58(LC 3)

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

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

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	PB01A	GABLE	1	1	T34843233
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:35 2024 Page 1
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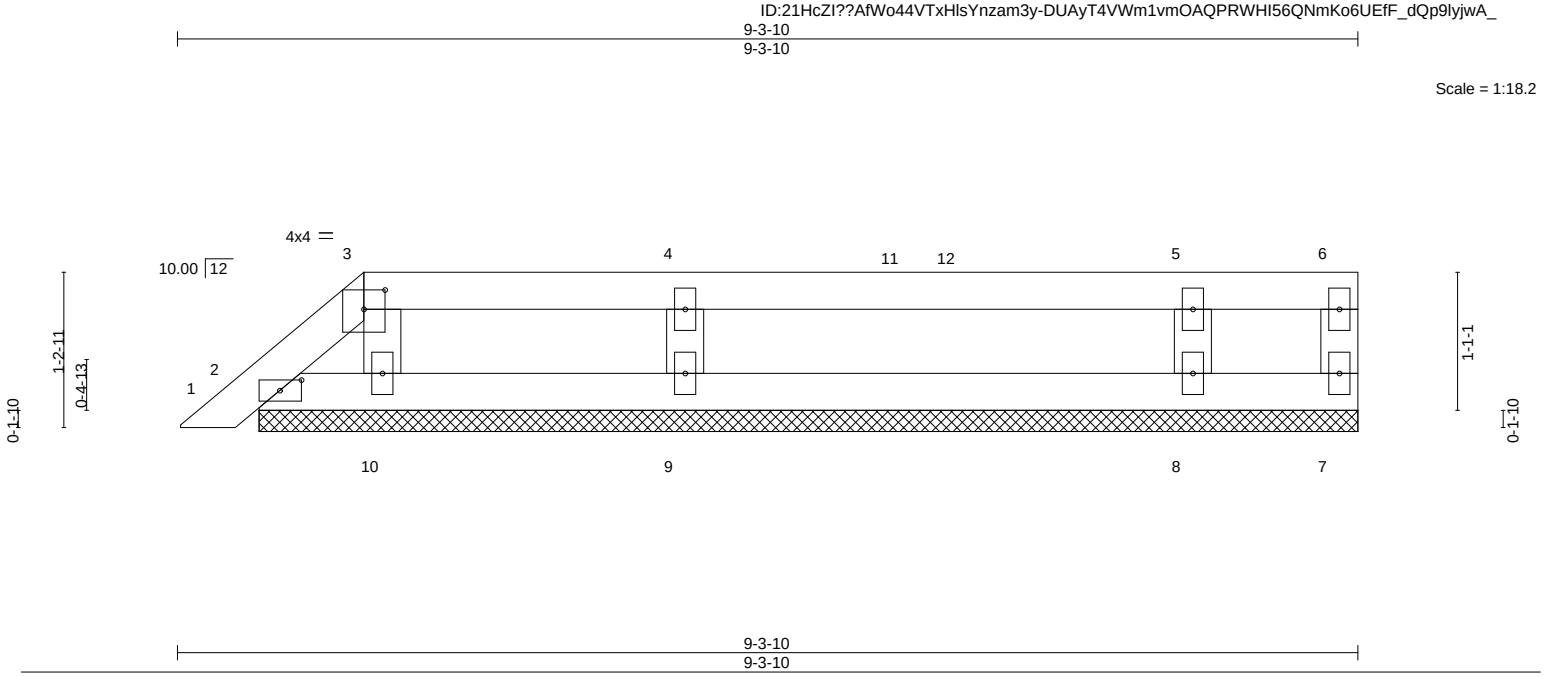

Plate Offsets (X,Y)-- [2:0-2-1,0-1-0], [3:0-2-0,0-1-13]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.12	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.00	7	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
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 8-7-14.
(lb) - Max Horz 2=39(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 9, 8, 10
Max Grav All reactions 250 lb or less at joint(s) 7, 2, 10 except 9=272(LC 1), 8=270(LC 1)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-14 to 1-5-10, Zone2 1-5-10 to 5-8-9, Zone1 5-8-9 to 9-1-14 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) 7, 2, 9, 8, 10.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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August 27,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	PB02	Piggyback	14	1	T34843234
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:35 2024 Page 1
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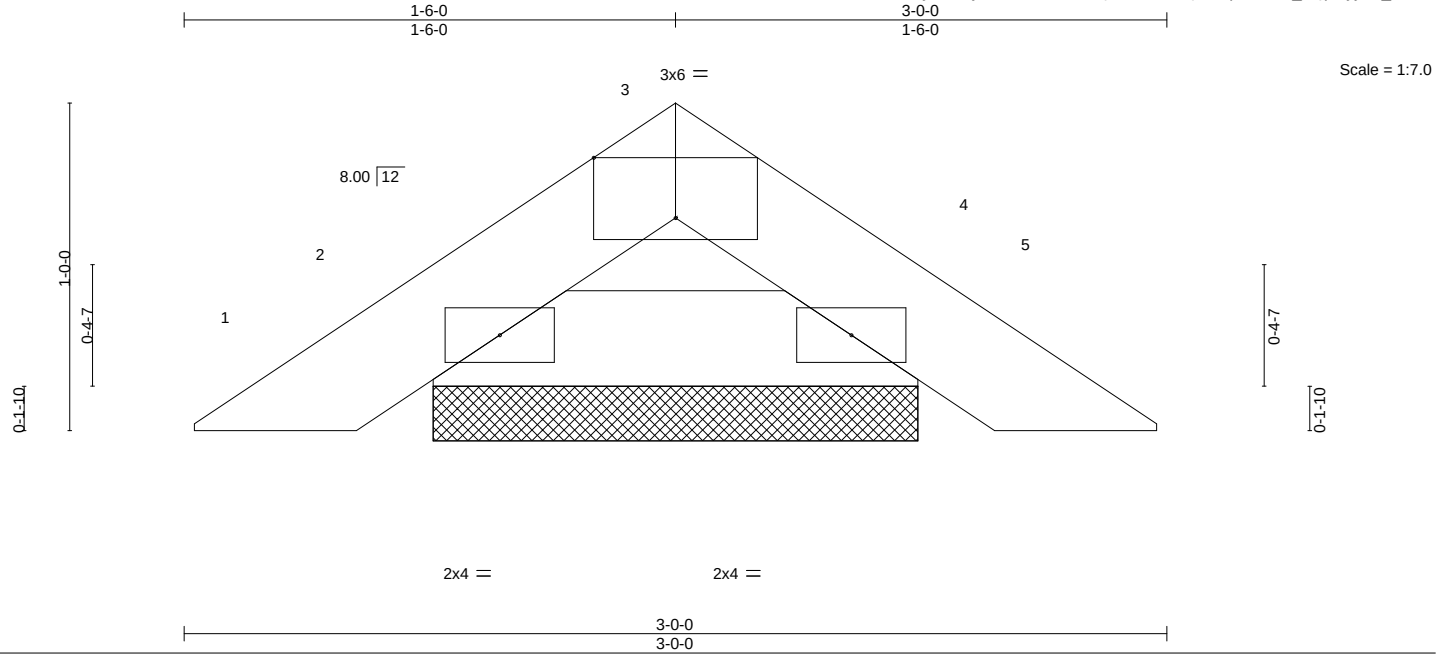

Plate Offsets (X,Y)-- [3:0-3-0,Edge]

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	0.02	Vert(LL)	-0.00	4	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	-0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							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 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=1-5-12, 4=1-5-12
Max Horz 2=-20(LC 10)
Max Uplift 2=-27(LC 12), 4=-27(LC 13)
Max Grav 2=81(LC 1), 4=81(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
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	IC CONST. - LIPPI RES.
4177528	PB02G	PIGGYBACK	2	1	T34843235
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:36 2024 Page 1
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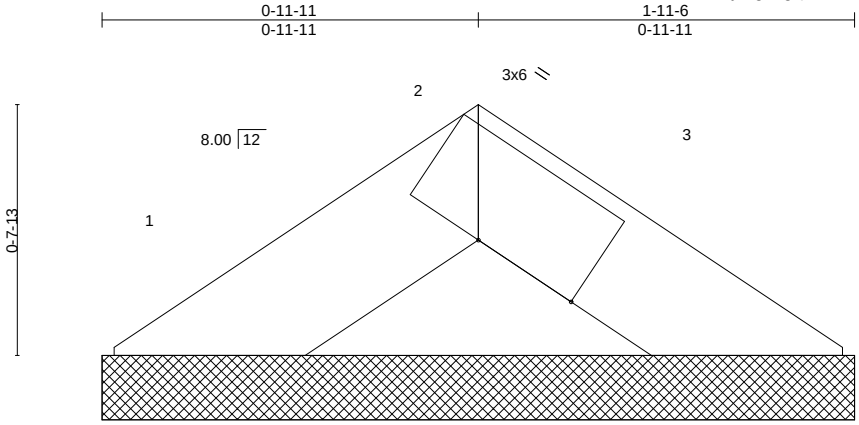

Plate Offsets (X,Y)-- [2:0-3-7,0-0-0]

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	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.00	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 3 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-11-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=1-11-6, 3=1-11-6
Max Horz 1=11(LC 9)
Max Uplift 1=-17(LC 12), 3=-17(LC 13)
Max Grav 1=38(LC 1), 3=38(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) * This truss has been designed for a 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) 1, 3.

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	PB03	Piggyback	3	1	T34843236
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:36 2024 Page 1
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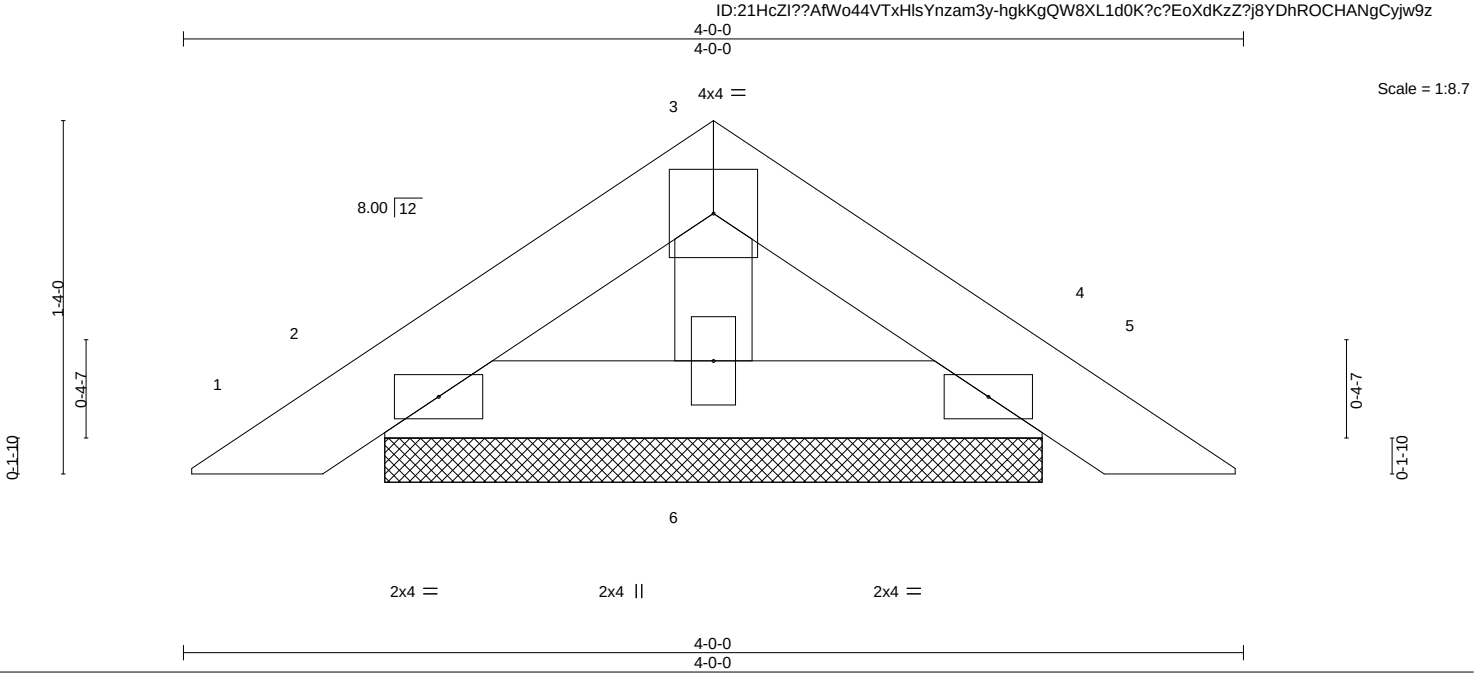

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.03	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 12 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 4-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=2-5-13, 4=2-5-13, 6=2-5-13
Max Horz 2=-28(LC 10)
Max Uplift 2=-33(LC 12), 4=-36(LC 13), 6=-5(LC 12)
Max Grav 2=79(LC 1), 4=79(LC 1), 6=78(LC 1)

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

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

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T01	Common	2	1	T34843237
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:36 2024 Page 1
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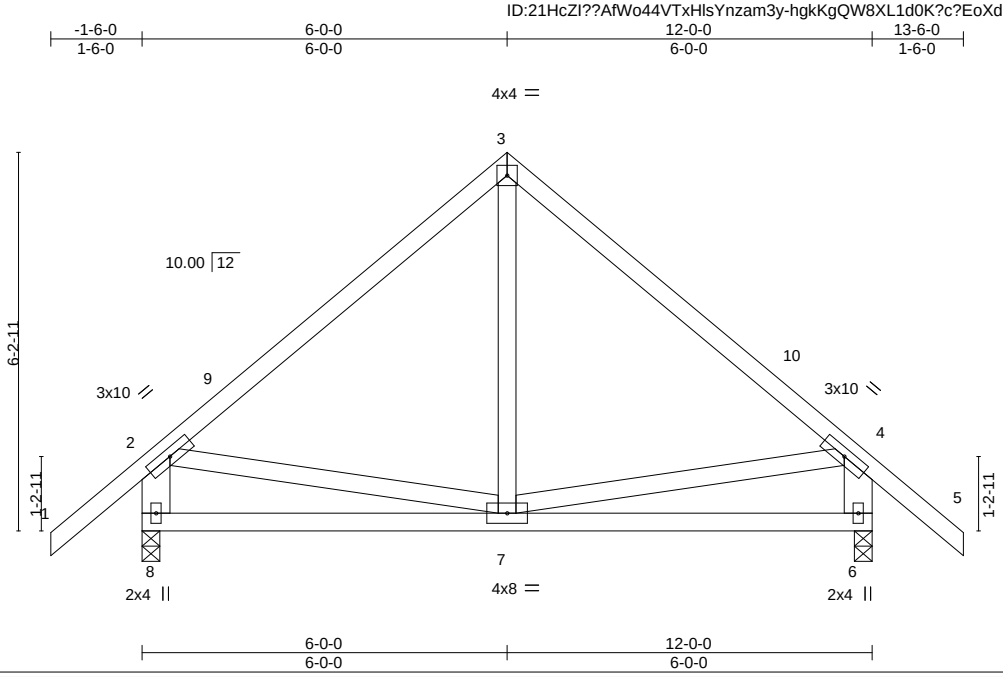

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	-0.02	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.05	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 76 lb	FT = 20%

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

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

REACTIONS. (size) 8=0-3-8, 6=0-3-8
Max Horz 8=193(LC 11)
Max Uplift 8=-137(LC 12), 6=-137(LC 13)
Max Grav 8=520(LC 1), 6=520(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-397/166, 3-4=-397/168, 2-8=-469/293, 4-6=-469/297
BOT CHORD 7-8=-213/285

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-0-0, Zone2 6-0-0 to 10-2-15, Zone1 10-2-15 to 13-6-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=137, 6=137.

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T01G	Common Supported Gable	1	1	T34843238
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:37 2024 Page 1
ID:21HcZI??AfWo44VTxHlsYnzam3y-9sHiumWmIf9UeUaoYxJmAXVhD7UVy8xYRxvwCeyjw9y

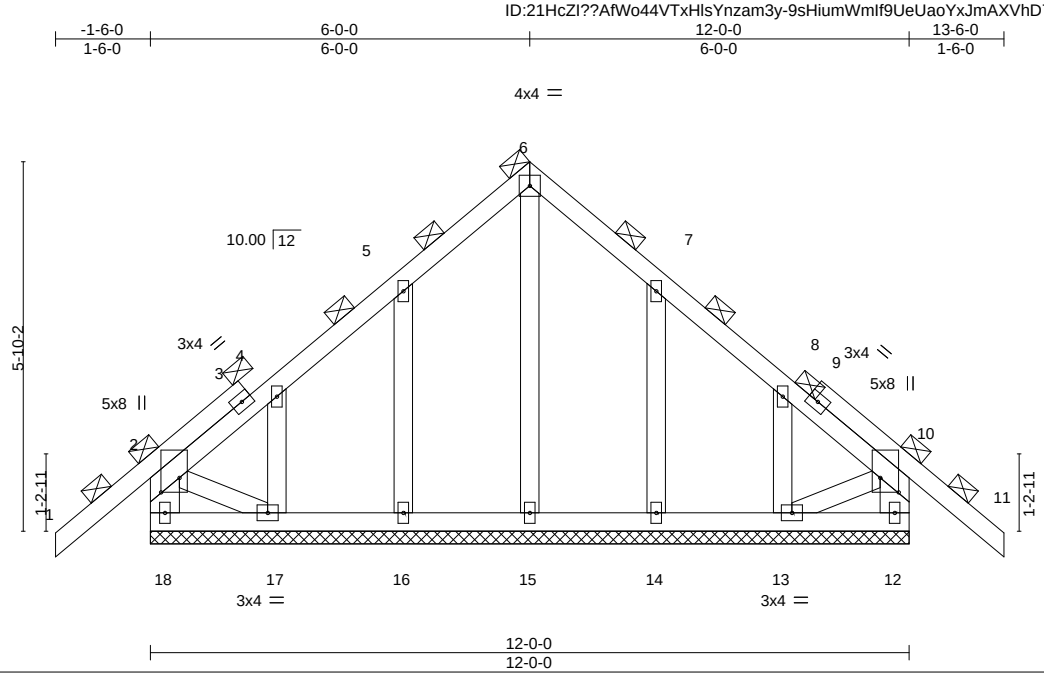

Plate Offsets (X,Y)-- [2:0-2-12,0-3-8], [10:0-2-12,0-3-8]

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	0.25	Vert(LL)	-0.01	11	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.02	11	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: 85 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2 *Except*
2-17,10-13: 2x4 SP No.3
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 12-0-0.
(lb) - Max Horz 18=-177(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 18, 12 except 16=-110(LC 12), 17=-122(LC 12), 14=-110(LC 13), 13=-117(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 18, 12, 15, 16, 17, 14, 13

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 12 except (jt=lb) 16=110, 17=122, 14=110, 13=117.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

August 27,2024

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T02	Common	3	1	T34843239
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:38 2024 Page 1
ID:21HcZI??AfWo44VTxHlsYnzam3y-d3r556XO3yHLFe9_6fq?jl2oKXh7hOmhgbfTk4yjw9x

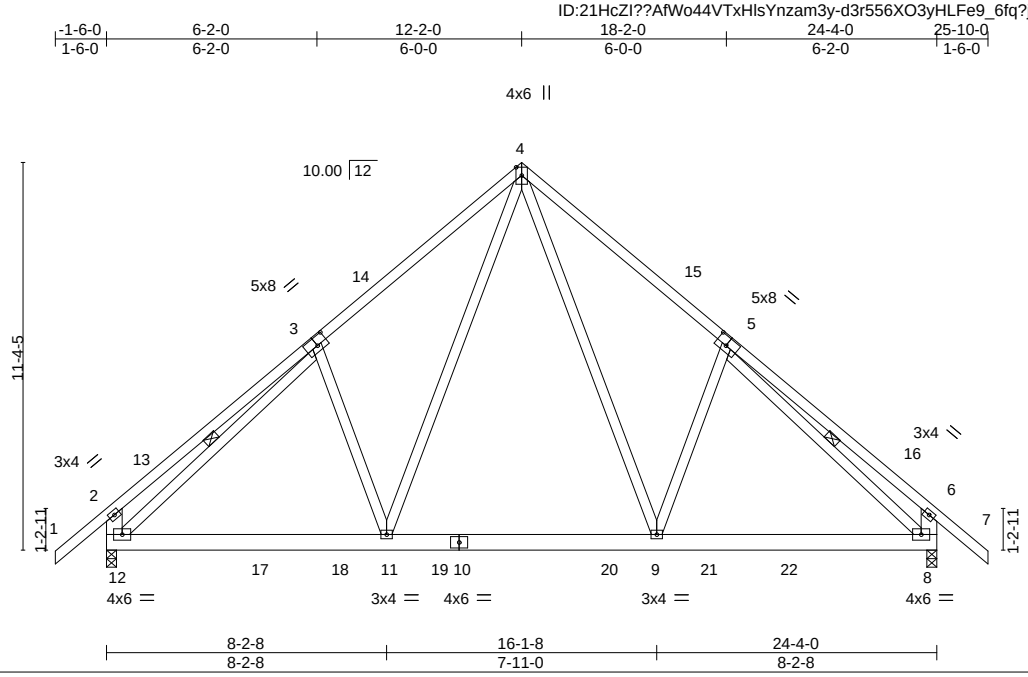

Plate Offsets (X,Y)-- [3:0-3-12,0-3-0], [5:0-3-12,0-3-0]

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	0.49	Vert(LL)	-0.10	9-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.19	9-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 188 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
2-12,6-8: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-12, 5-8

REACTIONS. (size) 12=0-3-8, 8=0-3-8
Max Horz 12=317(LC 11)
Max Uplift 12=-320(LC 12), 8=-320(LC 13)
Max Grav 12=1396(LC 19), 8=1365(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-424/230, 3-4=-1484/486, 4-5=-1447/486, 5-6=-424/230, 2-12=-465/262, 6-8=-465/262
BOT CHORD 11-12=-287/1266, 9-11=-84/893, 8-9=-172/1135
WEBS 4-9=-330/863, 5-9=-207/291, 4-11=-330/895, 3-11=-202/291, 3-12=-1248/219, 5-8=-1297/218

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-2-0, Zone2 12-2-0 to 16-4-15, Zone1 16-4-15 to 25-10-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=320, 8=320.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-4=-54, 4-6=-54, 6-7=-54, 11-12=-20, 9-11=-80(F=-60), 8-9=-20

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Date:

August 27,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T02G	GABLE	1	1	T34843240
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:38 2024 Page 1
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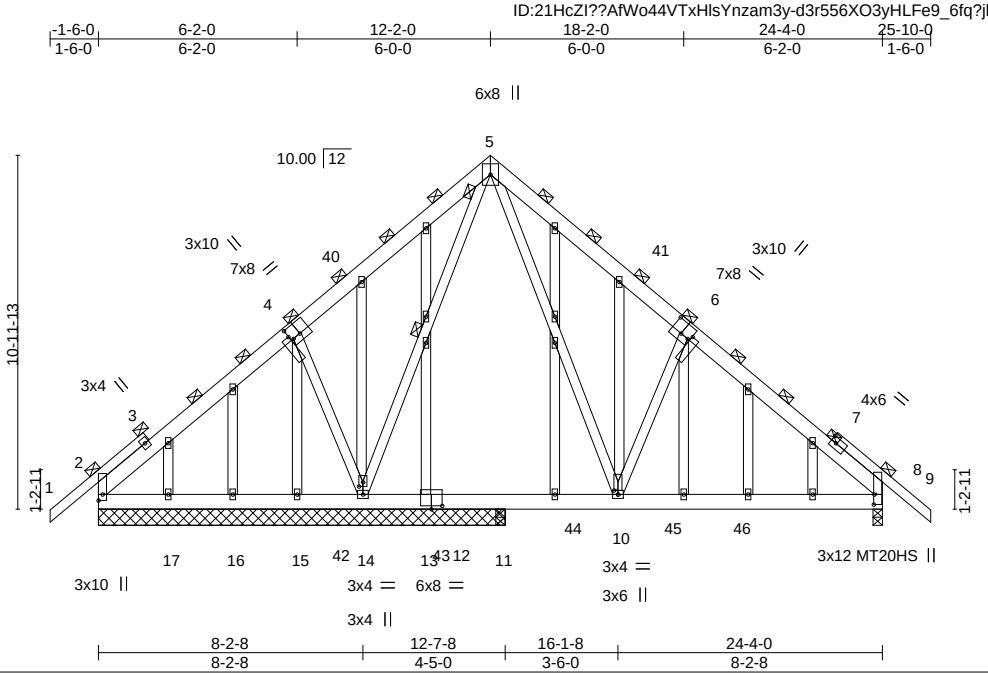

Plate Offsets (X,Y)-- [2:Edge,0-1-8], [4:0-1-12,0-1-0], [4:0-4-0,0-4-8], [6:0-4-0,0-4-8], [6:0-1-12,0-1-0], [8:0-3-12,0-0-3], [10:0-1-8,0-1-8], [12:0-4-0,0-1-4], [14:0-1-9,0-1-8]

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	0.42	Vert(LL)	-0.04	10-38	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.07	10-38	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 265 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except* 1-3,7-9: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-14

REACTIONS. All bearings 12-7-8 except (jt=length) 8=0-3-8, 11=0-3-8.
(lb) - Max Horz 2=-269(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 13, 17, 11 except 8=-181(LC 13), 14=-312(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 13, 15, 16, 17, 11 except 2=302(LC 25), 8=747(LC 20), 14=801(LC 19), 2=292(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-601/290, 6-8=-616/158
BOT CHORD 13-14=-39/275, 11-13=-39/275, 10-11=-39/275, 8-10=-20/457
WEBS 5-10=-262/618, 6-10=-359/313, 5-14=-506/94, 4-14=-338/311

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-2-0, Zone2 12-2-0 to 16-4-15, Zone1 16-4-15 to 25-10-0 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 MT20 plates unless otherwise indicated.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13, 17, 11, 2 except (jt=lb) 8=181, 14=312.
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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Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 27,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T03	Common	1	1	T34843241
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:39 2024 Page 1
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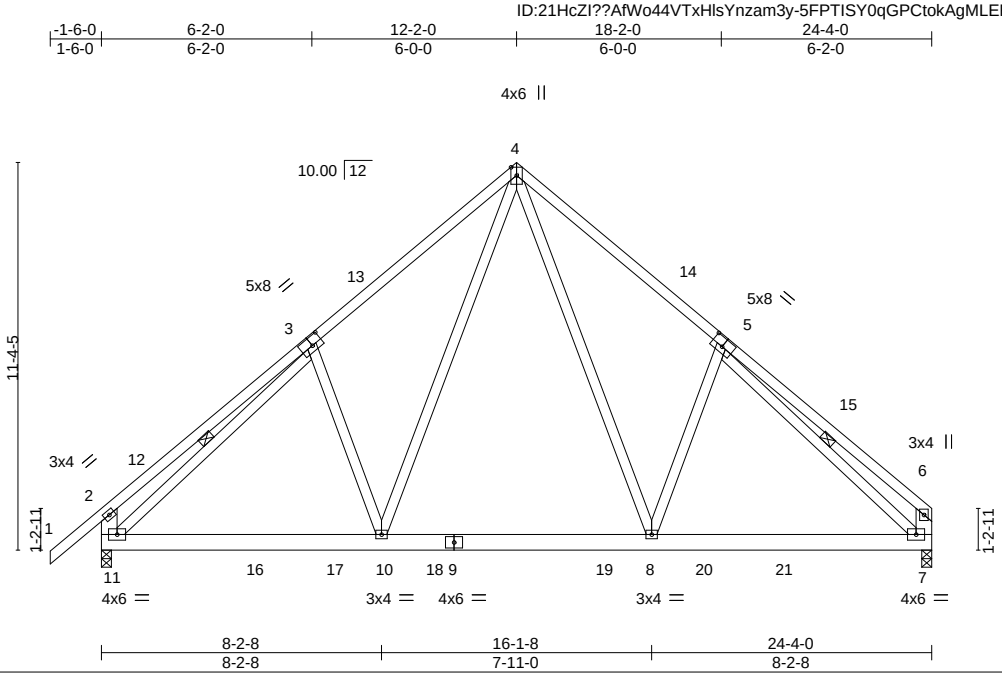

Plate Offsets (X,Y)-- [3:0-3-12,0-3-0], [5:0-4-0,0-3-0]

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	0.48	Vert(LL)	-0.10	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.19	8-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 185 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 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 4-5-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-11, 5-7

REACTIONS. (size) 11=0-3-8, 7=0-3-8
Max Horz 11=269(LC 9)
Max Uplift 11=-319(LC 12), 7=-275(LC 13)
Max Grav 11=1367(LC 19), 7=1275(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-414/237, 3-4=-1440/487, 4-5=-1449/491, 5-6=-385/185, 2-11=-458/266, 6-7=-341/182
BOT CHORD 10-11=-330/1208, 8-10=-118/845, 7-8=-216/1085
WEBS 4-8=-336/874, 5-8=-220/299, 4-10=-332/862, 3-10=-206/292, 3-11=-1248/229, 5-7=-1264/268

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-2-0, Zone2 12-2-0 to 16-4-15, Zone1 16-4-15 to 24-1-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=319, 7=275.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-4=-54, 4-6=-54, 10-11=-20, 8-10=-80(F=-60), 7-8=-20

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

August 27,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T04	Hip	1	1	T34843242
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:39 2024 Page 1
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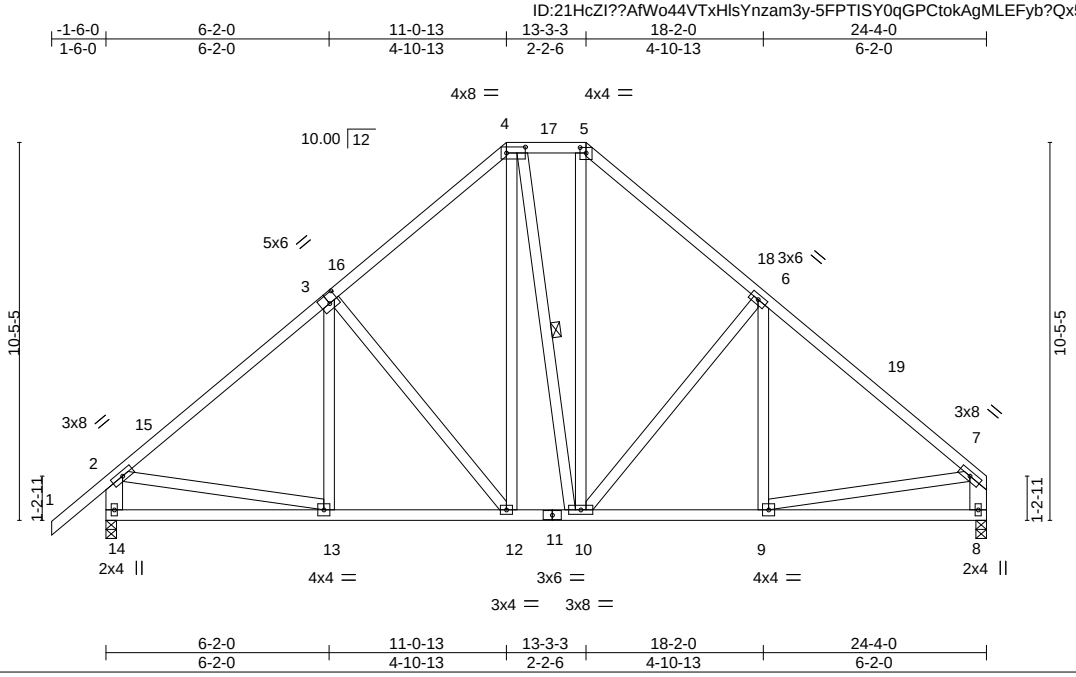

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [4:0-6-4,0-2-0], [5:0-2-0,0-1-13]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	-0.03	13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.34	Vert(CT)	-0.07	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 191 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-10

REACTIONS. (size) 14=0-3-8, 8=0-3-8
Max Horz 14=248(LC 9)
Max Uplift 14=-247(LC 12), 8=-204(LC 13)
Max Grav 14=980(LC 1), 8=880(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-987/237, 3-4=-771/293, 4-5=-518/272, 5-6=-774/295, 6-7=-988/234, 2-14=-923/264, 7-8=-823/219
BOT CHORD 13-14=-276/321, 12-13=-226/719, 10-12=-87/519, 9-10=-117/687
WEBS 3-12=-313/236, 4-12=-155/290, 5-10=-148/282, 6-10=-326/245, 2-13=-51/576, 7-9=-83/575

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-0-13, Zone3 11-0-13 to 13-3-3, Zone2 13-3-3 to 17-6-2, Zone1 17-6-2 to 24-1-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=247, 8=204.

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

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Date:

August 27,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T05	Hip	1	1	T34843243
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:40 2024 Page 1
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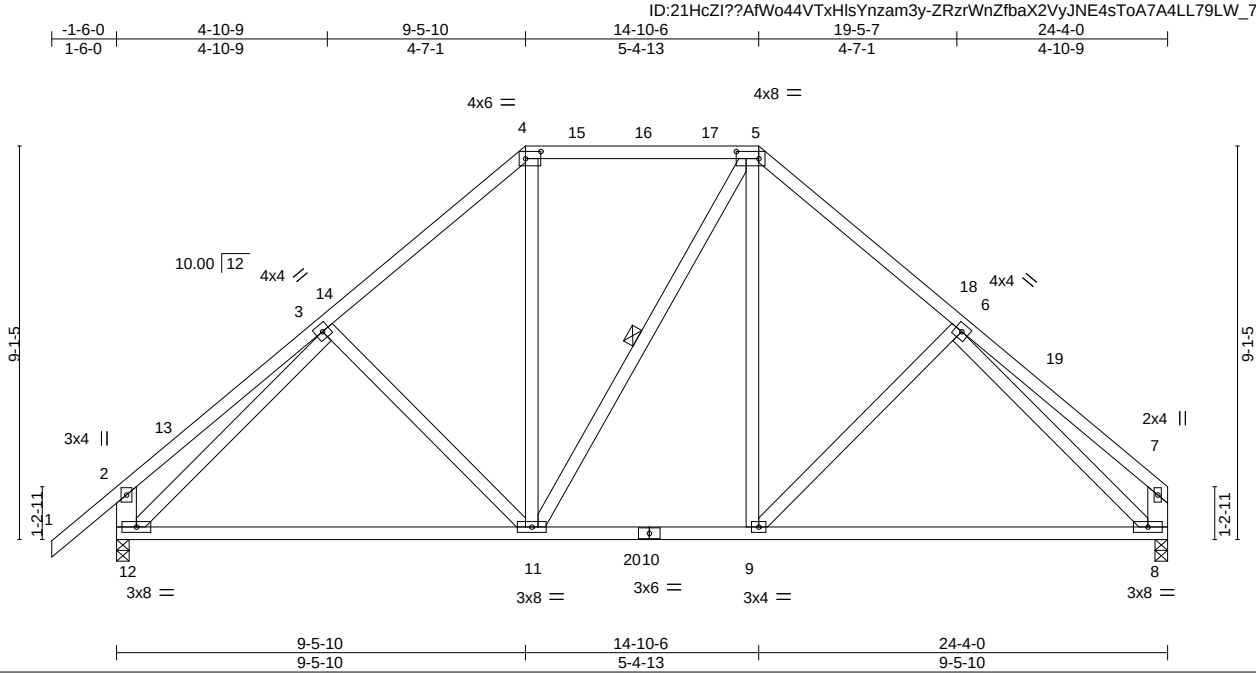

Plate Offsets (X,Y)-- [4:0-4-4,0-2-0], [5:0-6-4,0-2-0]

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	0.34	Vert(LL)	-0.21	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.42	8-9	>674	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 167 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-12,7-8: 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 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-11

REACTIONS. (size) 12=0-3-8, 8=0-3-8
Max Horz 12=254(LC 11)
Max Uplift 12=-257(LC 12), 8=-213(LC 13)
Max Grav 12=1041(LC 2), 8=963(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-346/138, 3-4=-916/276, 4-5=-653/272, 5-6=-925/279, 6-7=-358/109, 2-12=-390/187, 7-8=-302/119
BOT CHORD 11-12=-228/796, 9-11=-97/659, 8-9=-138/708
WEBS 4-11=-88/359, 5-9=-104/407, 3-12=-776/151, 6-8=-759/174

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-5-10, Zone2 9-5-10 to 13-8-8, Zone1 13-8-8 to 14-10-6, Zone2 14-10-6 to 19-1-5, Zone1 19-1-5 to 24-1-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=257, 8=213.

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

August 27,2024

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T06	Roof Special	1	1	T34843244
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:41 2024 Page 1
ID:21HcZl??AfWo44VTxHlsYnzam3y-1eXDj7ZHMtgv65tZnnNiKNgCMkkNupZ7MZt8LPyjw9u

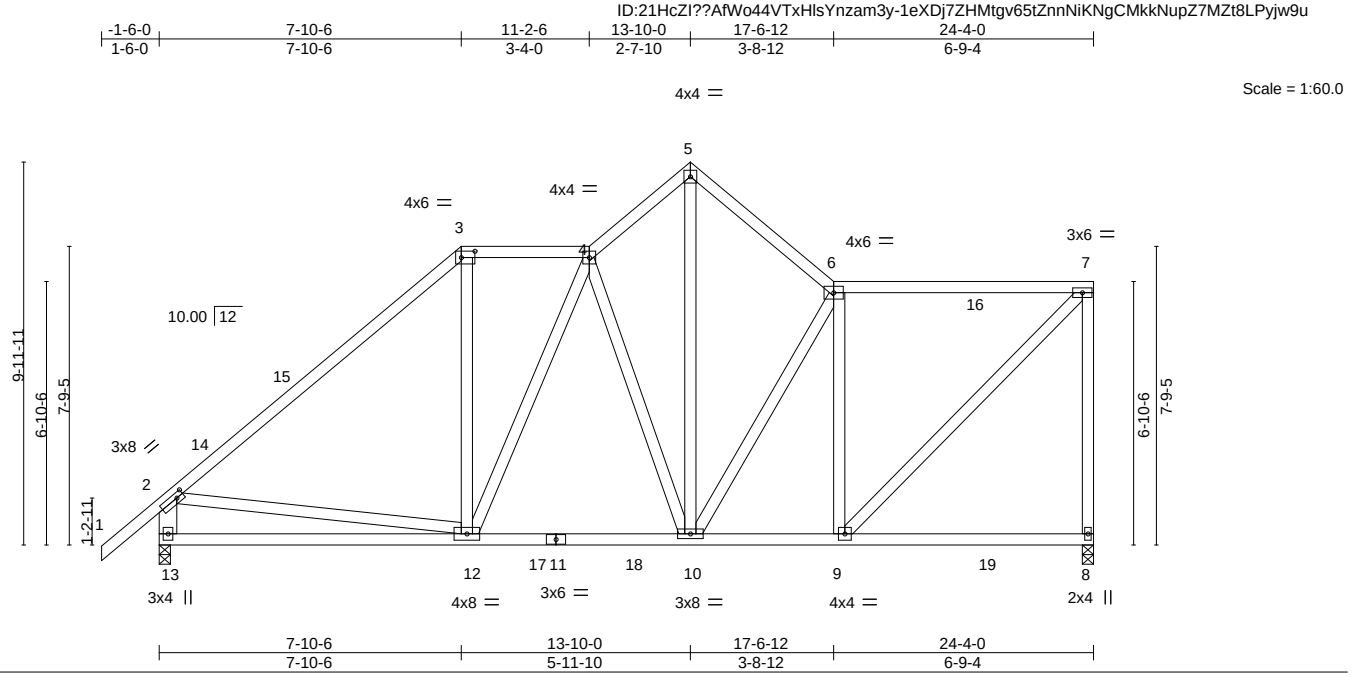

Plate Offsets (X,Y)-- [2:0-2-4,0-1-8], [3:0-4-4,0-2-0]

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	0.95	Vert(LL)	-0.09	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.19	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 186 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-13: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-1-7 oc bracing: 12-13.

REACTIONS. (size) 8=0-3-8, 13=0-3-8
Max Horz 13=297(LC 12)
Max Uplift 8=-228(LC 13), 13=-245(LC 12)
Max Grav 8=999(LC 2), 13=1050(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1049/219, 3-4=-720/259, 4-5=-801/253, 5-6=-841/273, 6-7=-727/177, 7-8=-863/243, 2-13=-924/268
BOT CHORD 12-13=-528/495, 10-12=-257/781, 9-10=-182/738
WEBS 3-12=-18/367, 4-10=-505/265, 5-10=-252/848, 6-10=-289/125, 6-9=-529/216, 7-9=-250/1009, 2-12=-122/529

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 7-10-6, Zone3 7-10-6 to 11-2-6, Zone1 11-2-6 to 13-10-0, Zone3 13-10-0 to 17-6-12, Zone1 17-6-12 to 24-2-4 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=228, 13=245.

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Date:

August 27,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T07	Roof Special	1	1	T34843245
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:41 2024 Page 1
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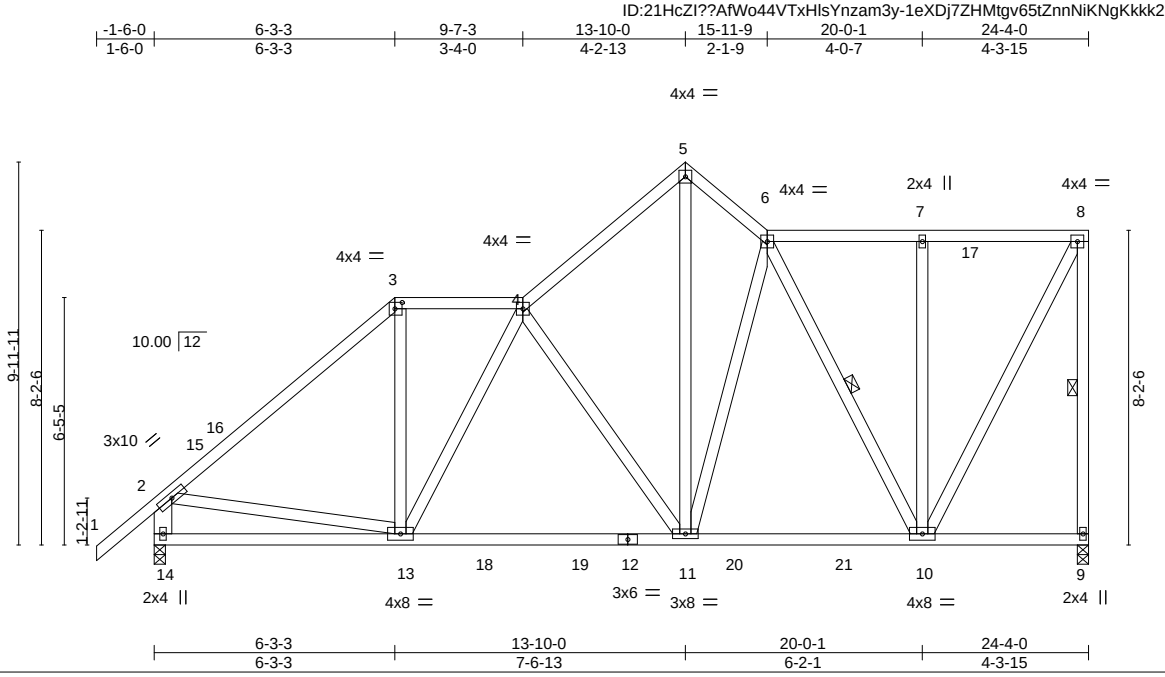

Plate Offsets (X,Y)-- [3:0-2-4,0-2-0]

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	0.41	Vert(LL)	-0.10	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.17	11-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 196 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-9-13 oc bracing: 13-14.
WEBS 1 Row at midpt 8-9, 6-10

REACTIONS. (size) 9=0-3-8, 14=0-3-8
Max Horz 14=326(LC 12)
Max Uplift 9=-243(LC 13), 14=-237(LC 12)
Max Grav 9=988(LC 2), 14=1061(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1087/212, 3-4=-773/235, 4-5=-876/213, 5-6=-833/256, 6-7=-457/107, 7-8=-457/107, 8-9=-933/251, 2-14=-969/253
BOT CHORD 13-14=-450/318, 11-13=-338/929, 10-11=-190/680
WEBS 3-13=-26/442, 4-13=-304/67, 4-11=-500/267, 5-11=-193/871, 6-10=-512/186, 7-10=-264/149, 8-10=-226/969, 2-13=-74/623

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-3-3, Zone3 6-3-3 to 9-7-3, Zone1 9-7-3 to 13-10-0, Zone3 13-10-0 to 15-11-9, Zone1 15-11-9 to 24-2-4 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=243, 14=237.

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

August 27,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T08	Roof Special	1	1	T34843246
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:42 2024 Page 1
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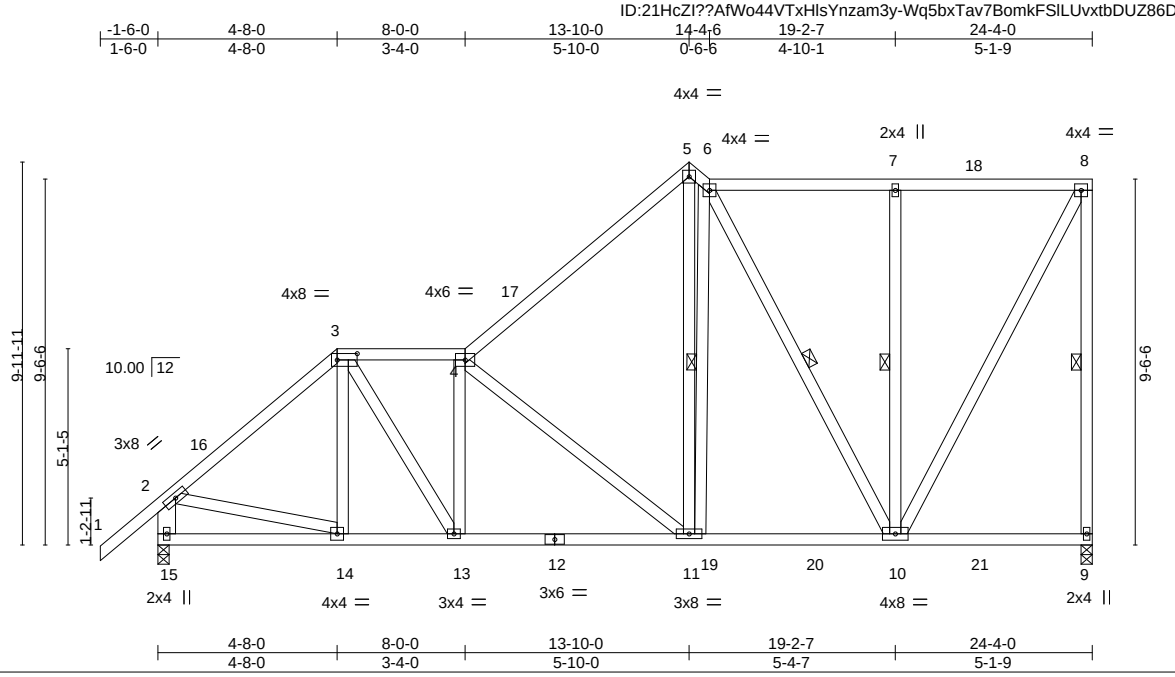

Plate Offsets (X,Y)-- [3:0-6-4,0-2-0]

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	0.41	Vert(LL)	-0.06	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.12	11-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 206 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-2-1 oc bracing.
WEBS 1 Row at midpt 8-9, 6-11, 6-10, 7-10

REACTIONS. (size) 9=0-3-8, 15=0-3-8
Max Horz 15=355(LC 12)
Max Uplift 9=-256(LC 9), 15=-226(LC 12)
Max Grav 9=1010(LC 2), 15=1042(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1030/201, 3-4=-1060/238, 4-5=-882/173, 5-6=-664/165, 6-7=-447/113, 7-8=-447/113, 8-9=-908/267, 2-15=-961/240
BOT CHORD 14-15=-394/265, 13-14=-384/750, 11-13=-417/1071, 10-11=-199/623
WEBS 3-13=-56/598, 4-13=-363/77, 4-11=-596/272, 5-11=-131/633, 6-10=-422/186, 7-10=-319/177, 8-10=-236/930, 2-14=-64/674

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-8-0, Zone3 4-8-0 to 8-0-0, Zone1 8-0-0 to 13-10-0, Zone3 13-10-0 to 14-4-6, Zone1 14-4-6 to 24-2-4 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=256, 15=226.

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

August 27,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T09	Roof Special	1	1	T34843247
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:42 2024 Page 1
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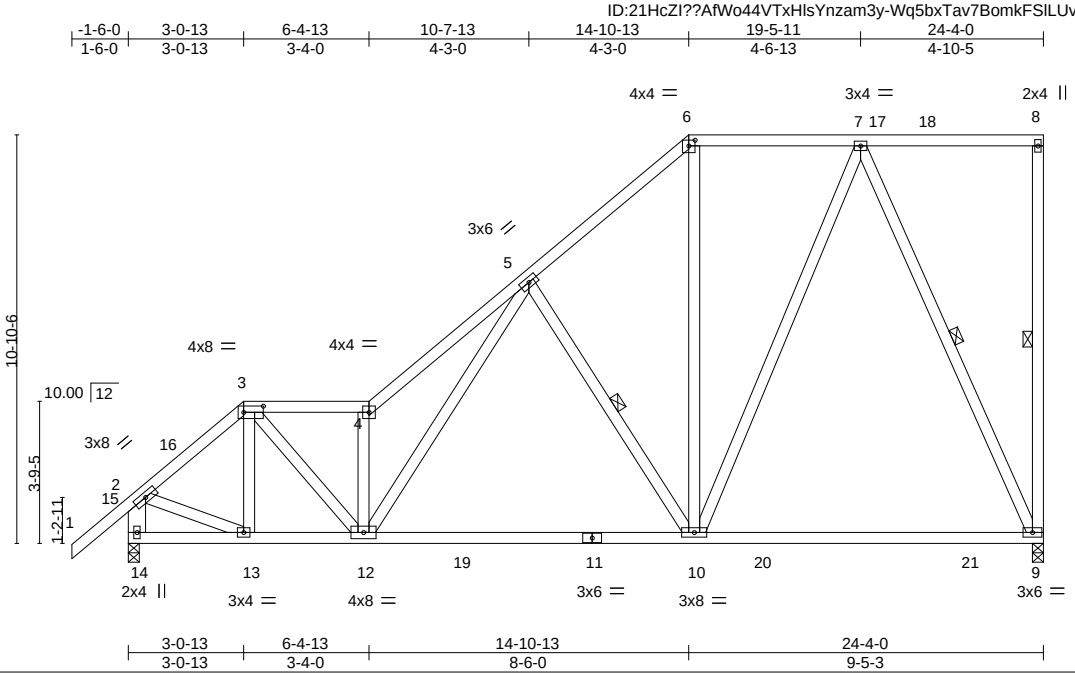

Plate Offsets (X,Y)-- [3:0-6-4,0-2-0], [6:0-2-0,0-1-13]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.46	Vert(LL)	-0.31	9-10	>937	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.47	9-10	>609	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 191 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
9-11: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
2-14: 2x6 SP No.2

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

REACTIONS. (size) 9=0-3-8, 14=0-3-8
Max Horz 14=400(LC 12)
Max Uplift 9=-266(LC 9), 14=-215(LC 12)
Max Grav 9=1033(LC 2), 14=1071(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-982/179, 3-4=-1332/221, 4-5=-1829/390, 5-6=-830/178, 6-7=-586/186, 2-14=-1006/226
BOT CHORD 13-14=-378/228, 12-13=-444/751, 10-12=-353/876, 9-10=-111/357
WEBS 3-12=-74/930, 4-12=-1282/346, 5-12=-291/1008, 5-10=-566/314, 6-10=-24/326, 7-10=-196/650, 7-9=-853/273, 2-13=-72/745

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 3-0-13, Zone3 3-0-13 to 6-4-13, Zone1 6-4-13 to 14-10-13, Zone2 14-10-13 to 19-1-12, Zone1 19-1-12 to 24-2-4 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=266, 14=215.

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Date:

August 27,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T10	Piggyback Base Girder	1	1	T34843248
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:43 2024 Page 1
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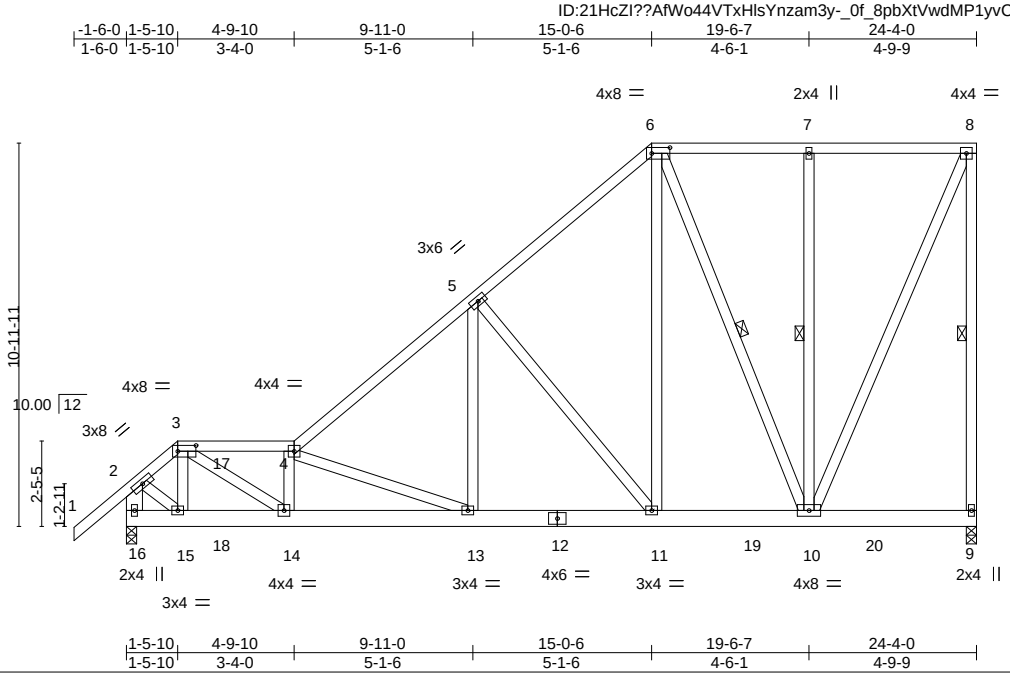

Plate Offsets (X,Y)-- [3:0-6-4,0-2-0], [6:0-6-4,0-2-0]

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)	-0.07	13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.12	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 222 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 8-9, 6-10, 7-10

REACTIONS. (size) 9=0-3-8, 16=0-3-8
Max Horz 16=405(LC 8)
Max Uplift 9=-269(LC 5), 16=-240(LC 8)
Max Grav 9=1009(LC 2), 16=1060(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-805/164, 3-4=-1633/289, 4-5=-1245/187, 5-6=-767/170, 6-7=-365/106, 7-8=-365/106, 8-9=-912/277, 2-16=-1063/252
BOT CHORD 15-16=-356/144, 14-15=-463/663, 13-14=-628/1765, 11-13=-393/982, 10-11=-194/540
WEBS 3-15=-325/52, 3-14=-185/1284, 4-14=-626/141, 4-13=-844/254, 5-13=-68/537, 5-11=-704/315, 6-11=-210/718, 6-10=-499/225, 7-10=-282/168, 8-10=-262/902, 2-15=-137/714

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=269, 16=240.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 65 lb down and 35 lb up at 2-7-11 on top chord, and 21 lb down and 72 lb up at 1-5-10, and 19 lb down and 8 lb up at 2-7-11 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, 3-4=-54, 4-6=-54, 6-8=-54, 9-16=-20

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Date:

August 27,2024

Continued on page 2

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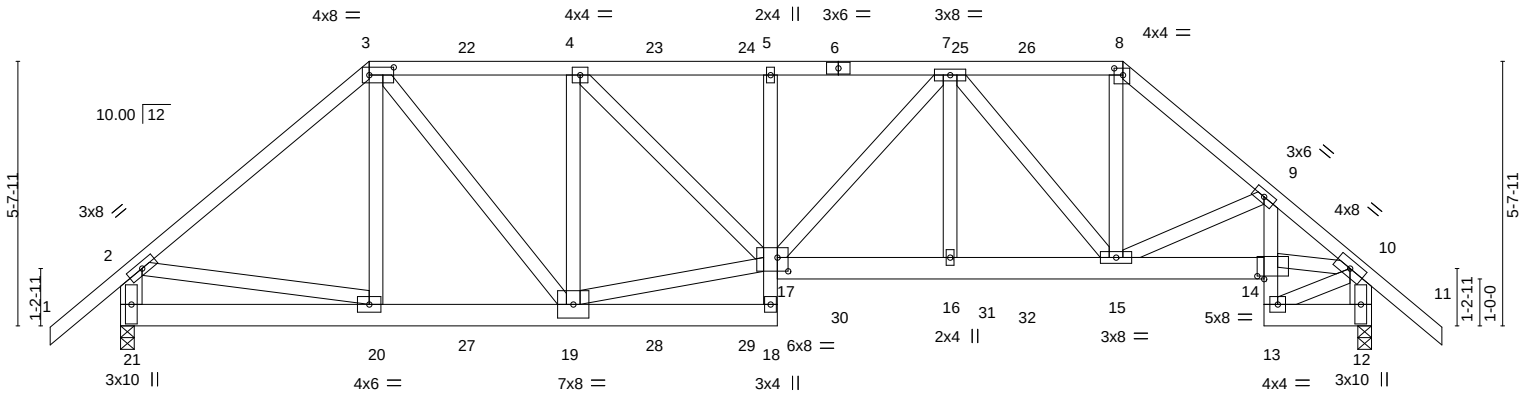
LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 15=25(B) 18=8(B)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T11	Hip Girder	1	1	T34843249
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:44 2024 Page 1
ID:21HcZI??AfWo44VTxHlsYnzam3y-SDDMM9c9eo2UzZc8TvxPy0Ipwyic56ca2X6oykyjw9r

-1-6-0	5-3-10	9-7-13	14-0-0	17-8-3	21-4-6	24-4-8	26-8-0	28-2-0
1-6-0	5-3-10	4-4-3	4-4-3	3-8-3	3-8-3	3-0-2	2-3-8	1-6-0

Scale = 1:49.1



5-3-10	9-7-13	14-0-0	17-8-3	21-4-6	24-4-8	26-8-0
5-3-10	4-4-3	4-4-3	3-8-3	3-8-3	3-0-2	2-3-8

Plate Offsets (X,Y)-- [3:0-6-4,0-2-0], [8:0-2-4,0-1-12], [14:0-1-12,0-0-12], [17:0-2-12,0-3-8]

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	0.48	Vert(LL)	0.17	16-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.23	16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.11	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 209 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
5-18,9-13: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
2-21,10-12: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-10-15 oc bracing.

REACTIONS. (size) 21=0-3-8, 12=0-3-8
Max Horz 21=-177(LC 6)
Max Uplift 21=-996(LC 8), 12=-992(LC 9)
Max Grav 21=1957(LC 1), 12=1968(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2220/1176, 3-4=-2392/1337, 4-5=-3140/1677, 5-7=-3156/1683, 7-8=-2055/1158, 8-9=-2661/1421, 9-10=-2811/1419, 2-21=-1891/1003, 10-12=-1969/1009
BOT CHORD 20-21=-218/311, 19-20=-919/1643, 18-19=-155/288, 16-17=-1516/2866, 15-16=-1516/2866, 14-15=-1052/2180
WEBS 3-20=-125/284, 3-19=-687/1246, 4-19=-1062/583, 17-19=-1193/2179, 4-17=-527/1042, 7-17=-263/451, 7-16=-217/459, 7-15=-1293/707, 8-15=-799/1492, 2-20=-851/1488, 10-13=-153/265, 10-14=-915/1916

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=996, 12=992.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 80 lb down and 59 lb up at 5-3-10, 80 lb down and 56 lb up at 7-4-6, 80 lb down and 56 lb up at 9-4-6, 80 lb down and 56 lb up at 11-4-6, 80 lb down and 51 lb up at 13-4-0, 61 lb down and 38 lb up at 15-3-10, 61 lb down and 38 lb up at 17-3-10, and 61 lb down and 38 lb up at 19-3-10, and 61 lb down and 41 lb up at 21-4-6 on top chord, and 345 lb down and 282 lb up at 5-3-10, 144 lb down and 105 lb up at 7-4-6, 144 lb down and 105 lb up at 9-4-6, 144 lb down and 105 lb up at 11-4-6, 144 lb down and 105 lb up at 13-4-0, 168 lb down and 120 lb up at 15-3-10, 168 lb down and 120 lb up at 17-3-10, and 168 lb down and 120 lb up at 19-3-10, and 374 lb down and 290 lb up at 21-3-10 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).

Continued on page 2

LOAD CASE(S) Standard

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Date:

August 27,2024

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LOAD CASE(S) Standard

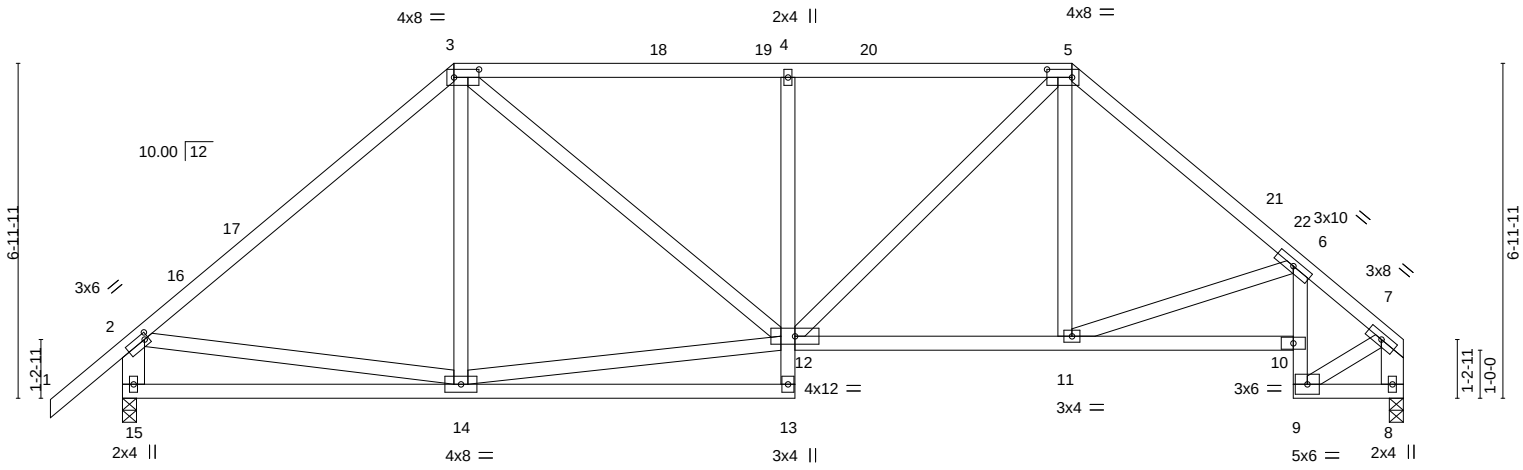
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-54, 2-3=-54, 3-8=-54, 8-10=-54, 10-11=-54, 18-21=-20, 14-17=-20, 12-13=-20
   Concentrated Loads (lb)
   Vert: 3=-26(B) 6=-7(B) 8=-7(B) 20=-296(B) 19=-136(B) 4=-26(B) 15=-323(B) 22=-26(B) 23=-26(B) 24=-26(B) 25=-7(B) 26=-7(B) 27=-136(B) 28=-136(B) 29=-136(B) 30=-159(B) 31=-159(B) 32=-159(B)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T12	Hip	1	1	T34843250
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:44 2024 Page 1
ID:21HcZI??AfWo44VTxHlsYnzam3y-SDDMM9c9eo2UzZc8TvxPy0IpUye45Efa2X6oykyjw9r

-1-6-0 | 6-10-13 | 14-0-0 | 19-9-3 | 24-4-8 | 26-8-0
1-6-0 | 6-10-13 | 7-1-3 | 5-9-3 | 4-7-5 | 2-3-8

Scale: 1/4"=1'



6-10-13 | 14-0-0 | 19-9-3 | 24-4-8 | 26-8-0
6-10-13 | 7-1-3 | 5-9-3 | 4-7-5 | 2-3-8

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

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	0.51	Vert(LL)	-0.07	13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	1.00	Vert(CT)	-0.15	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.12	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 177 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
4-13: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
2-15,7-8: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
1-7-8 oc bracing: 9-10.

REACTIONS. (size) 15=0-3-8, 8=0-3-8
Max Horz 15=201(LC 9)
Max Uplift 15=-293(LC 12), 8=-249(LC 13)
Max Grav 15=1066(LC 1), 8=967(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1099/285, 3-4=-1149/339, 4-5=-1150/339, 5-6=-1220/331, 6-7=-951/256, 2-15=-1005/311, 7-8=-1049/282
BOT CHORD 14-15=-272/358, 4-12=-402/231, 11-12=-191/874, 10-11=-297/1032
WEBS 12-14=-239/690, 3-12=-213/566, 5-12=-212/441, 5-11=-33/297, 2-14=-223/582, 7-9=-204/748

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-10-13, Zone2 6-10-13 to 11-1-11, Zone1 11-1-11 to 19-9-3, Zone2 19-9-3 to 24-0-2, Zone1 24-0-2 to 26-5-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=293, 8=249.

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

August 27,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T13	Hip	1	1	T34843251
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:45 2024 Page 1
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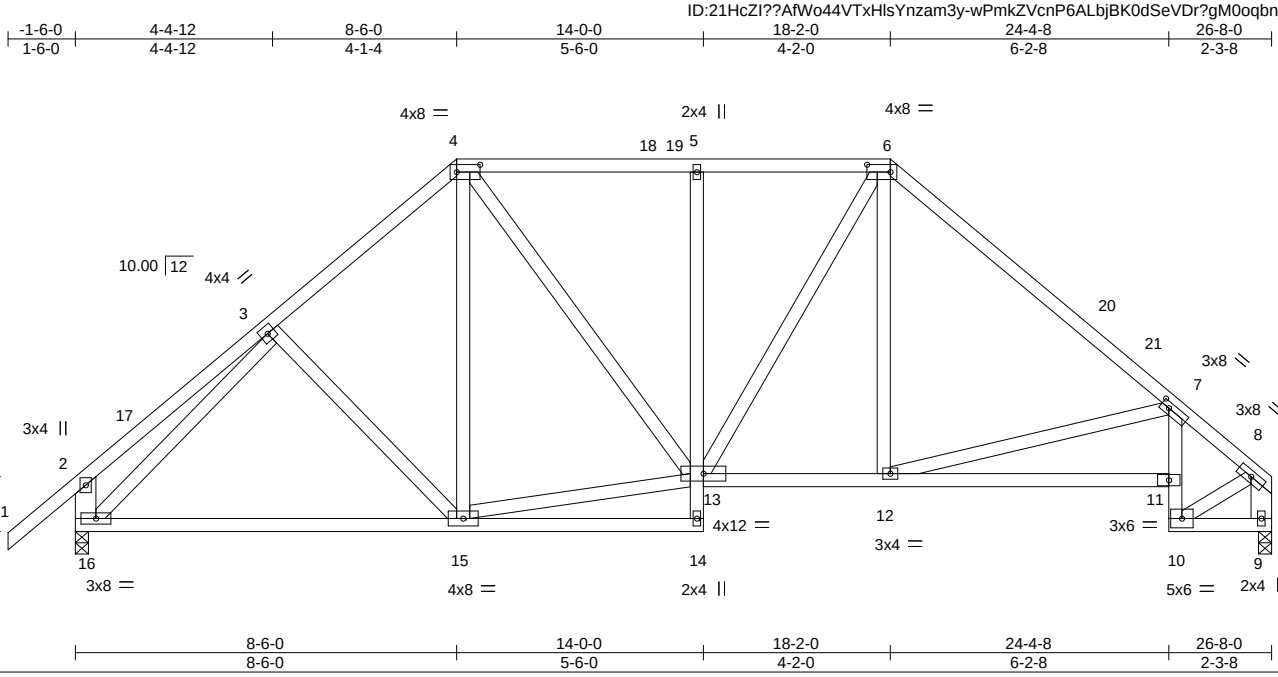

Plate Offsets (X,Y)-- [4:0-6-4,0-2-0], [6:0-6-4,0-2-0], [7:0-2-4,0-1-8]

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	0.42	Vert(LL)	-0.12	15-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.25	15-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.12	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 192 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
5-14: 2x4 SP No.3, 7-10: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
2-16,8-9: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
9-11-5 oc bracing: 11-12
6-0-0 oc bracing: 10-11.

REACTIONS. (size) 9=0-3-8, 16=0-3-8
Max Horz 16=234(LC 9)
Max Uplift 9=-243(LC 13), 16=-287(LC 12)
Max Grav 9=967(LC 1), 16=1066(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-988/317, 4-5=-913/306, 5-6=-913/304, 6-7=-1165/305, 7-8=-952/253, 2-16=-298/173, 8-9=-1046/274
BOT CHORD 15-16=-270/726, 5-13=-297/176, 12-13=-152/804, 11-12=-352/1121, 10-11=-264/96
WEBS 13-15=-205/670, 4-13=-150/396, 6-13=-177/287, 6-12=-42/320, 7-12=-398/303, 3-16=-941/184, 8-10=-234/778

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 8-6-0, Zone2 8-6-0 to 12-8-15, Zone1 12-8-15 to 18-2-0, Zone2 18-2-0 to 22-4-15, Zone1 22-4-15 to 26-5-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=243, 16=287.

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Date:

August 27,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T14	Hip	1	1	T34843252
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:45 2024 Page 1
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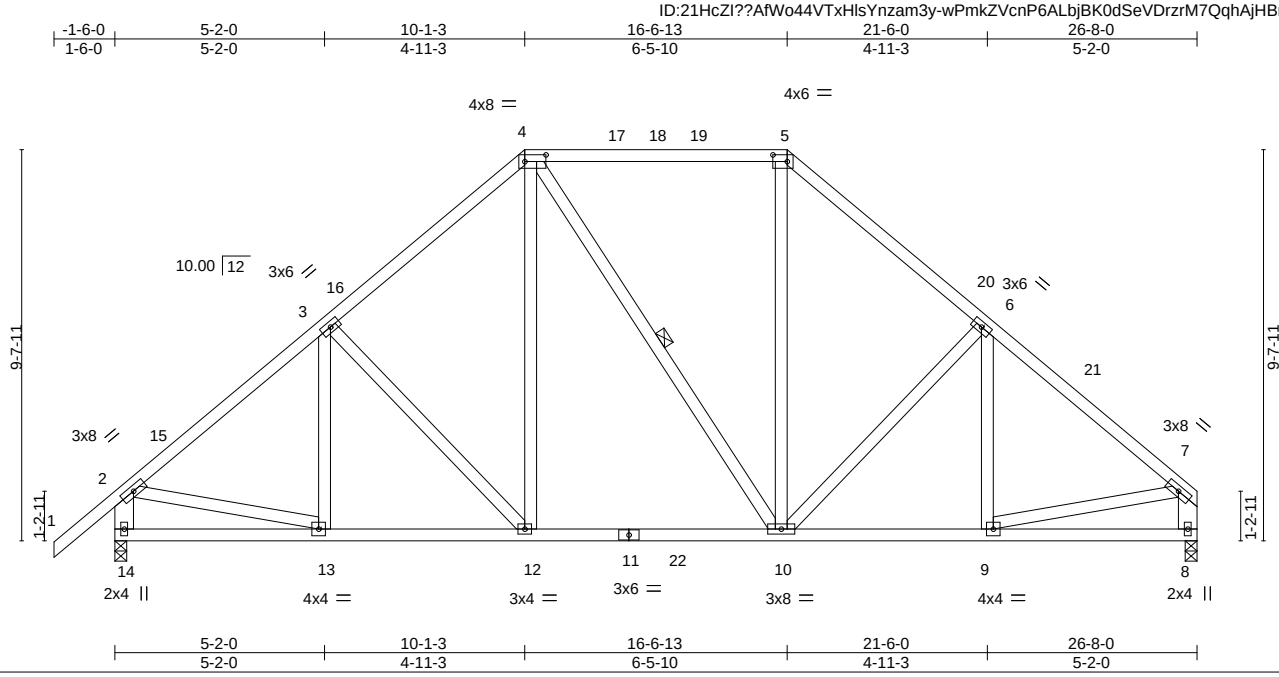

Plate Offsets (X,Y)-- [4:0-6-4,0-2-0], [5:0-4-4,0-2-0]

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	0.53	Vert(LL)	-0.07	10-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.12	10-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 189 lb	FT = 20%

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

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

REACTIONS. (size) 14=0-3-8, 8=0-3-8
Max Horz 14=267(LC 9)
Max Uplift 14=-279(LC 12), 8=-236(LC 13)
Max Grav 14=1143(LC 2), 8=1057(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1170/272, 3-4=-1020/312, 4-5=-727/303, 5-6=-1015/315, 6-7=-1169/271, 2-14=-1058/292, 7-8=-972/248
BOT CHORD 13-14=-268/282, 12-13=-241/947, 10-12=-176/768, 9-10=-142/849
WEBS 3-12=-265/201, 4-12=-109/437, 5-10=-95/394, 6-10=-280/207, 2-13=-75/781, 7-9=-98/770

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 10-1-3, Zone2 10-1-3 to 14-4-2, Zone1 14-4-2 to 16-6-13, Zone2 16-6-13 to 20-9-11, Zone1 20-9-11 to 26-5-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=279, 8=236.

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

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Date:

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T15	Hip	1	1	T34843253
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:46 2024 Page 1
ID:21HcZI??AfWo44VTxHlsYnzam3y-ObK6mrdPAQICDtmXaKzt1RNBIlUDZ7stWrbv0dyjw9p

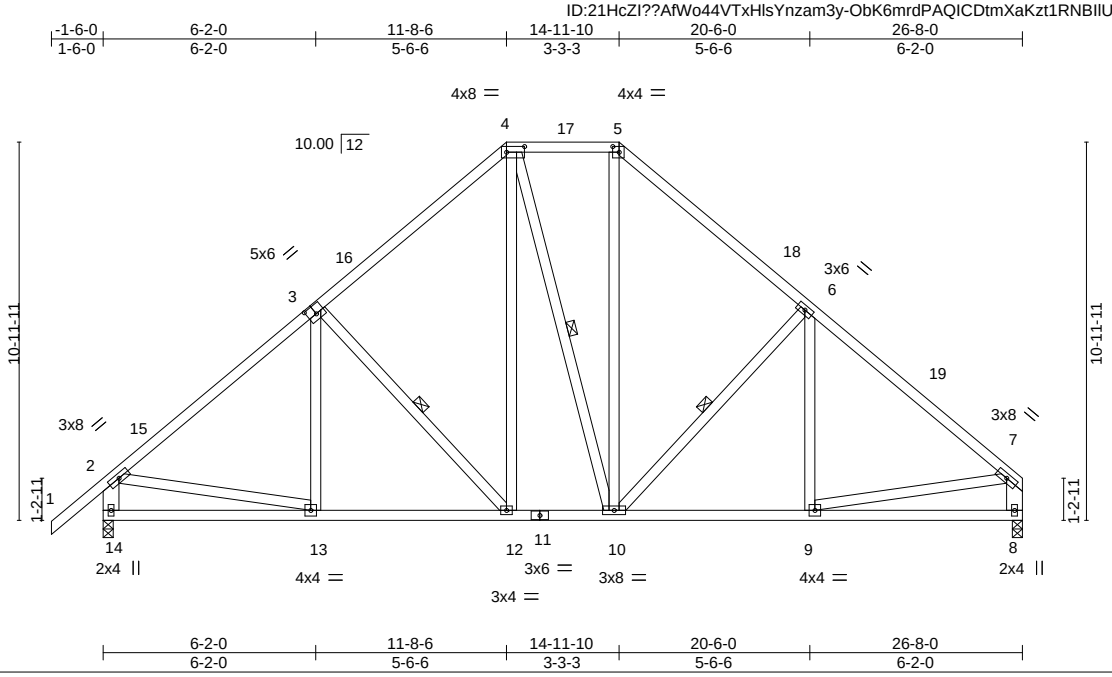

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [4:0-6-4,0-2-0], [5:0-2-4,0-2-0]

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)	-0.03	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.07	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 202 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-12, 4-10, 6-10

REACTIONS. (size) 14=0-3-8, 8=0-3-8
Max Horz 14=300(LC 11)
Max Uplift 14=-271(LC 12), 8=-227(LC 13)
Max Grav 14=1066(LC 1), 8=967(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1100/264, 3-4=-876/313, 4-5=-591/301, 5-6=-879/314, 6-7=-1102/262, 2-14=-1010/287, 7-8=-910/242
BOT CHORD 13-14=-313/351, 12-13=-239/810, 10-12=-127/590, 9-10=-117/776
WEBS 3-12=-326/246, 4-12=-151/312, 5-10=-144/306, 6-10=-338/254, 2-13=-62/674, 7-9=-91/670

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-8-6, Zone3 11-8-6 to 14-11-10, Zone2 14-11-10 to 19-2-8, Zone1 19-2-8 to 26-5-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=271, 8=227.

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:

August 27,2024

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

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T16	Piggyback Base	1	1	T34843254
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:47 2024 Page 1
ID:21HcZI??AfWo44VTxHlsYnzam3y-snuU_Be2xjQ3q0Lj82U6aewM19qSIa60kVKSZ3yjw9o

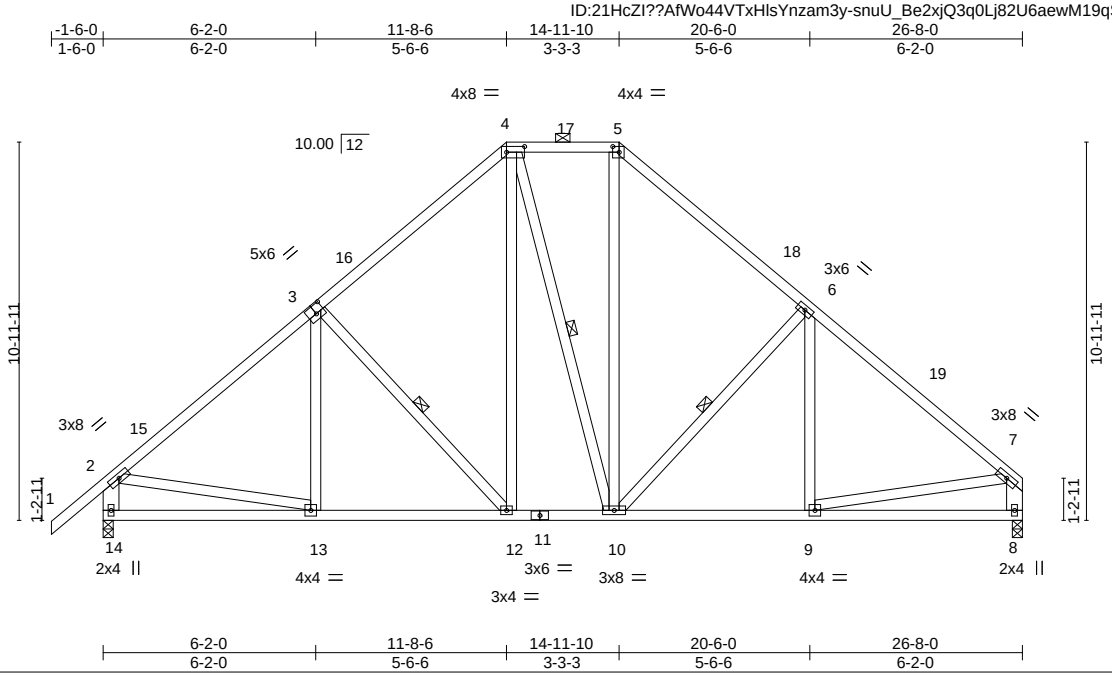

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [4:0-6-4,0-2-0], [5:0-2-4,0-2-0]

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)	-0.03	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.07	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 202 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-12, 4-10, 6-10

REACTIONS. (size) 14=0-3-8, 8=0-3-8
Max Horz 14=300(LC 9)
Max Uplift 14=-271(LC 12), 8=-227(LC 13)
Max Grav 14=1066(LC 1), 8=967(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1100/264, 3-4=-876/313, 4-5=-591/301, 5-6=-879/314, 6-7=-1102/262, 2-14=-1010/287, 7-8=-910/242
BOT CHORD 13-14=-313/351, 12-13=-239/810, 10-12=-127/590, 9-10=-117/776
WEBS 3-12=-326/246, 4-12=-151/312, 5-10=-144/306, 6-10=-338/254, 2-13=-62/674, 7-9=-91/670

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-8-6, Zone3 11-8-6 to 14-11-10, Zone2 14-11-10 to 19-2-8, Zone1 19-2-8 to 26-5-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=271, 8=227.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

August 27,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T17	Piggyback Base Girder	1	1	T34843255
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:47 2024 Page 1
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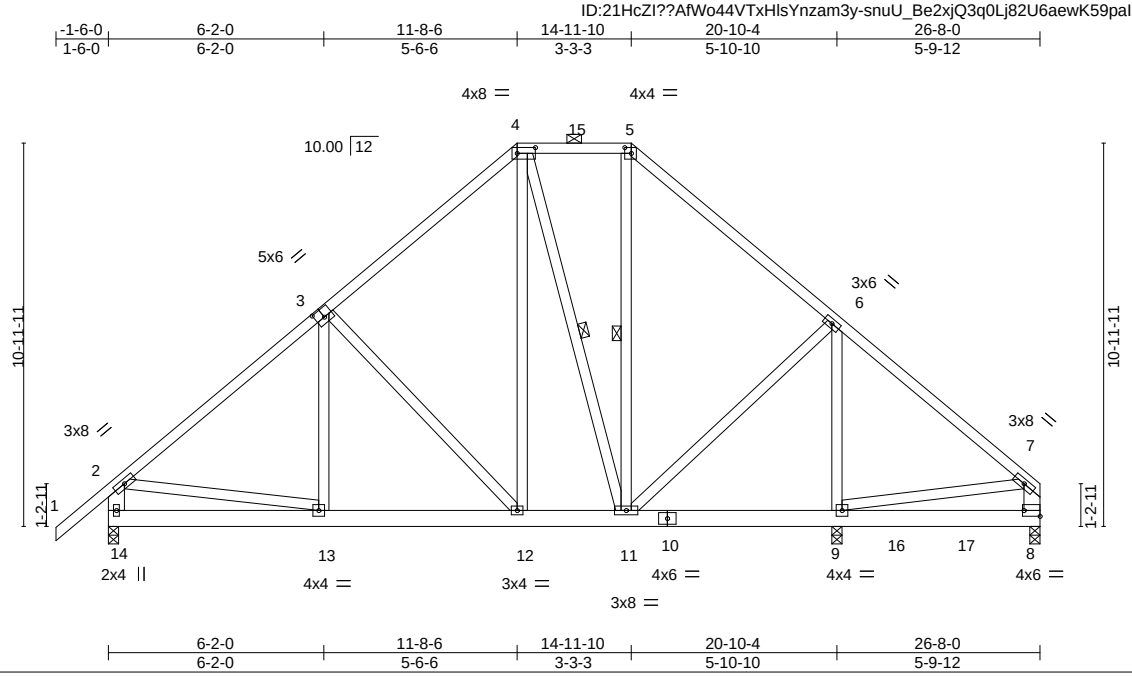

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [4:0-6-4,0-2-0], [5:0-2-4,0-2-0], [8:Edge,0-2-0]

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	0.48	Vert(LL)	-0.07	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	-0.11	8-9	>600	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 222 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
8-10: 2x6 SP M 26
WEBS 2x4 SP No.3 *Except*
2-14,7-8: 2x6 SP No.2

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

REACTIONS. (size) 14=0-3-8, 9=0-3-8, 8=0-3-8
Max Horz 14=297(LC 5)
Max Uplift 14=-232(LC 29), 9=-567(LC 9), 8=-277(LC 9)
Max Grav 14=858(LC 1), 9=1711(LC 1), 8=916(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-839/215, 3-4=-589/243, 4-5=-297/242, 5-6=-503/249, 6-7=-279/72, 2-14=-797/248
BOT CHORD 13-14=-309/353, 12-13=-221/657, 11-12=-134/415, 8-9=-224/541
WEBS 3-12=-352/255, 4-12=-173/380, 4-11=-325/162, 6-11=-146/368, 6-9=-690/339, 2-13=-38/449, 7-9=-421/270

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=232, 9=567, 8=277.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 797 lb down and 293 lb up at 22-5-12, and 797 lb down and 293 lb up at 24-5-12 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).

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, 5-7=-54, 8-14=-20

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Date:

August 27,2024

Continued on page 2

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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 16=-695(F) 17=-695(F)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T18	Piggyback Base	1	1	T34843256
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:48 2024 Page 1
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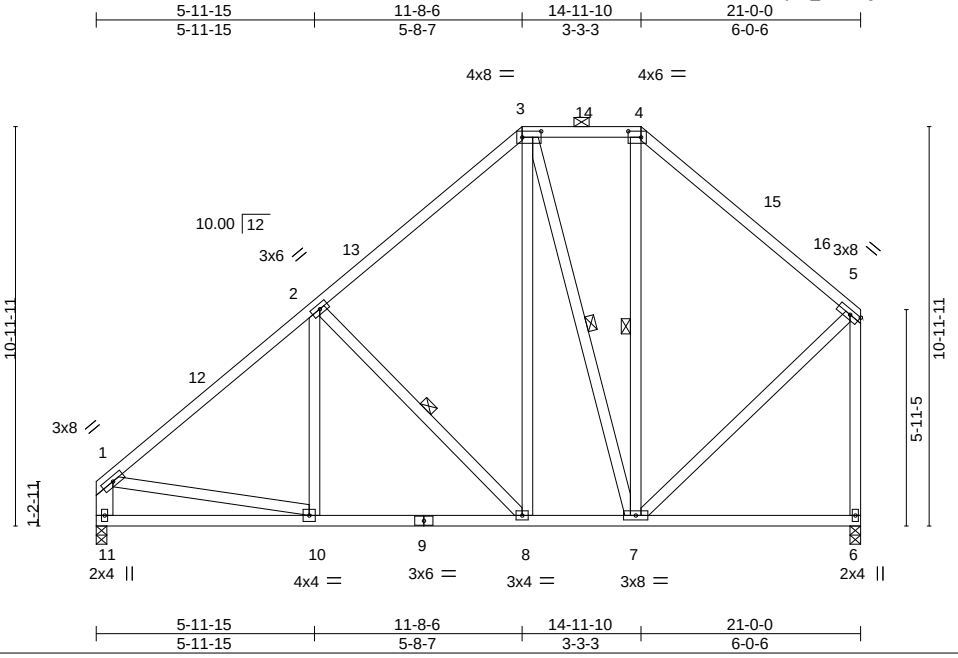

Plate Offsets (X,Y)-- [3:0-6-4,0-2-0], [4:0-4-4,0-2-0]

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	0.55	Vert(LL)	-0.04	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.09	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.01	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 *Except*
1-11: 2x6 SP No.2

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

REACTIONS. (size) 11=0-3-8, 6=0-3-8
Max Horz 11=248(LC 12)
Max Uplift 11=-165(LC 12), 6=-209(LC 12)
Max Grav 11=763(LC 1), 6=763(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-844/182, 2-3=-595/215, 3-4=-317/204, 4-5=-514/192, 1-11=-710/180, 5-6=-707/225
BOT CHORD 10-11=-313/271, 8-10=-309/615, 7-8=-126/372
WEBS 2-8=-361/262, 3-8=-162/327, 3-7=-258/156, 1-10=-27/487, 5-7=-105/415

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-2-12 to 3-2-12, Zone1 3-2-12 to 11-8-6, Zone3 11-8-6 to 14-11-10 , Zone2 14-11-10 to 19-2-8, Zone1 19-2-8 to 20-10-4 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=165, 6=209.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

August 27,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T19	Piggyback Base	3	1	T34843257
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:48 2024 Page 1
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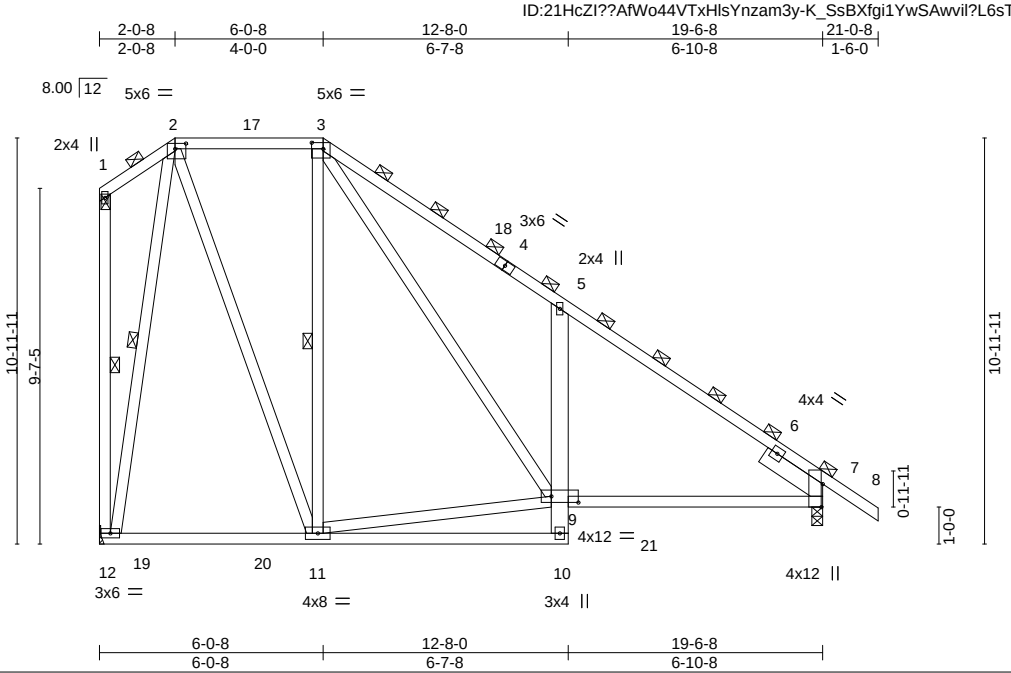

Plate Offsets (X,Y)-- [2:0-3-8,0-1-12], [3:0-3-12,0-2-0], [7:0-7-8,Edge], [9:0-8-12,0-2-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.46	Vert(LL)	-0.07	9-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.12	9-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 172 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
5-10: 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Right 2x6 SP No.2 1-11-8

BRACING-
TOP CHORD 2-0-0 oc purlins (5-6-2 max.), except end verticals, and sheathed or 6-0-0 oc purlins: 2-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-11, 1-12, 2-12

REACTIONS. (size) 12=Mechanical, 7=0-3-8
Max Horz 12=-353(LC 13)
Max Uplift 12=-273(LC 13), 7=-169(LC 13)
Max Grav 12=821(LC 20), 7=914(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-335/160, 3-5=-1009/361, 5-7=-920/147
BOT CHORD 11-12=-97/306, 5-9=-401/346, 7-9=0/712
WEBS 2-11=-253/661, 3-11=-372/250, 9-11=-25/348, 3-9=-353/798, 2-12=-691/269

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 6-0-8, Zone2 6-0-8 to 10-3-7, Zone1 10-3-7 to 21-0-8 zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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) 12=273, 7=169.
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	IC CONST. - LIPPI RES.
4177528	T20	Piggyback Base	4	1	T34843258
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:49 2024 Page 1
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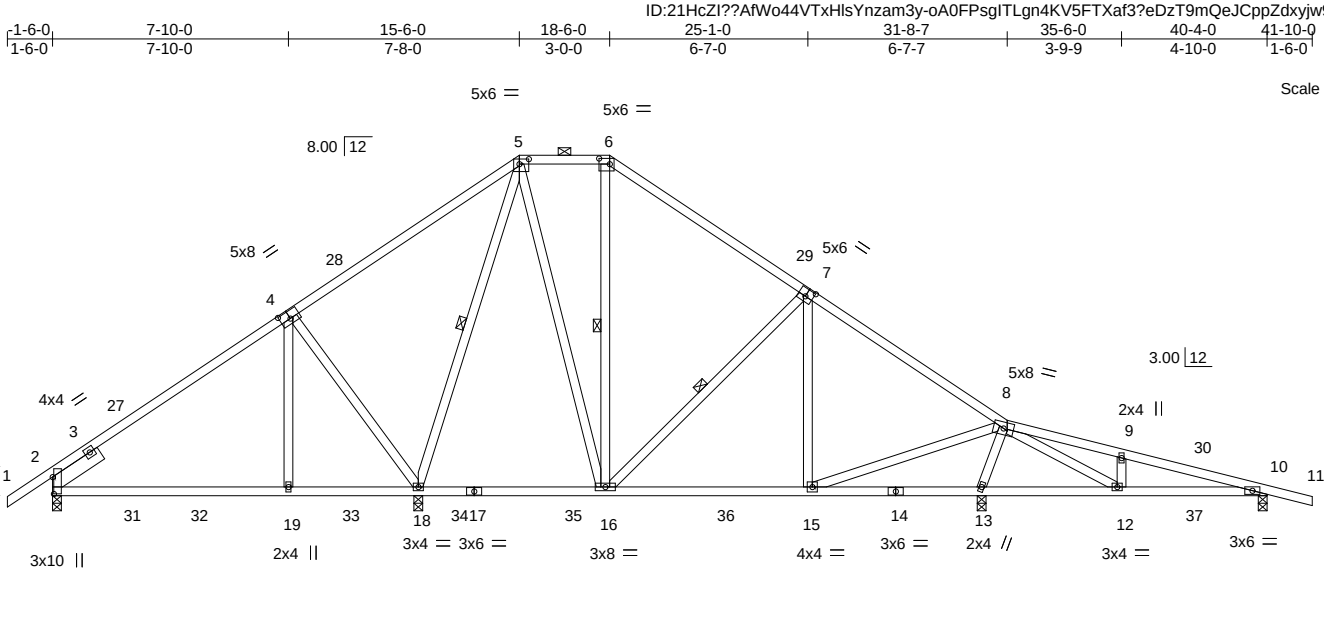

Plate Offsets (X,Y)-- [2:0-6-11,0-0-8], [4:0-4-0,0-3-0], [5:0-3-12,0-2-0], [6:0-4-4,0-2-4], [7:0-3-0,0-3-0]

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	0.64	Vert(LL)	-0.10	19-22	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.18	19-22	>823	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.03	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 251 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-15,12-13.
WEBS 1 Row at midpt 5-18, 6-16, 7-16

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=-285(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-242(LC 12), 18=-123(LC 12), 13=-333(LC 13), 10=-244(LC 9)
Max Grav All reactions 250 lb or less at joint(s) except 2=679(LC 27), 18=1112(LC 2), 13=1281(LC 2), 10=400(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-577/441, 4-5=-276/379, 5-6=-376/354, 6-7=-544/343, 7-8=-715/255, 8-9=-631/371, 9-10=-623/327
BOT CHORD 2-19=-258/596, 18-19=-258/597, 16-18=-51/390, 15-16=-86/573, 13-15=-453/231, 10-12=-271/593
WEBS 4-19=-148/305, 4-18=-571/379, 5-18=-610/60, 5-16=-102/501, 7-16=-348/225, 8-15=-321/1036, 8-13=-1181/454, 8-12=-436/694

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-6-6, Zone1 2-6-6 to 15-6-0, Zone3 15-6-0 to 18-6-0, Zone2 18-6-0 to 24-2-7, Zone1 24-2-7 to 41-10-0 zone; end vertical left exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 242 lb uplift at joint 2, 123 lb uplift at joint 18, 333 lb uplift at joint 13 and 244 lb uplift at joint 10.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

August 27,2024

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

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T20G	GABLE Gable I Gable COMMON	1	1	T34843259
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:50 2024 Page 1
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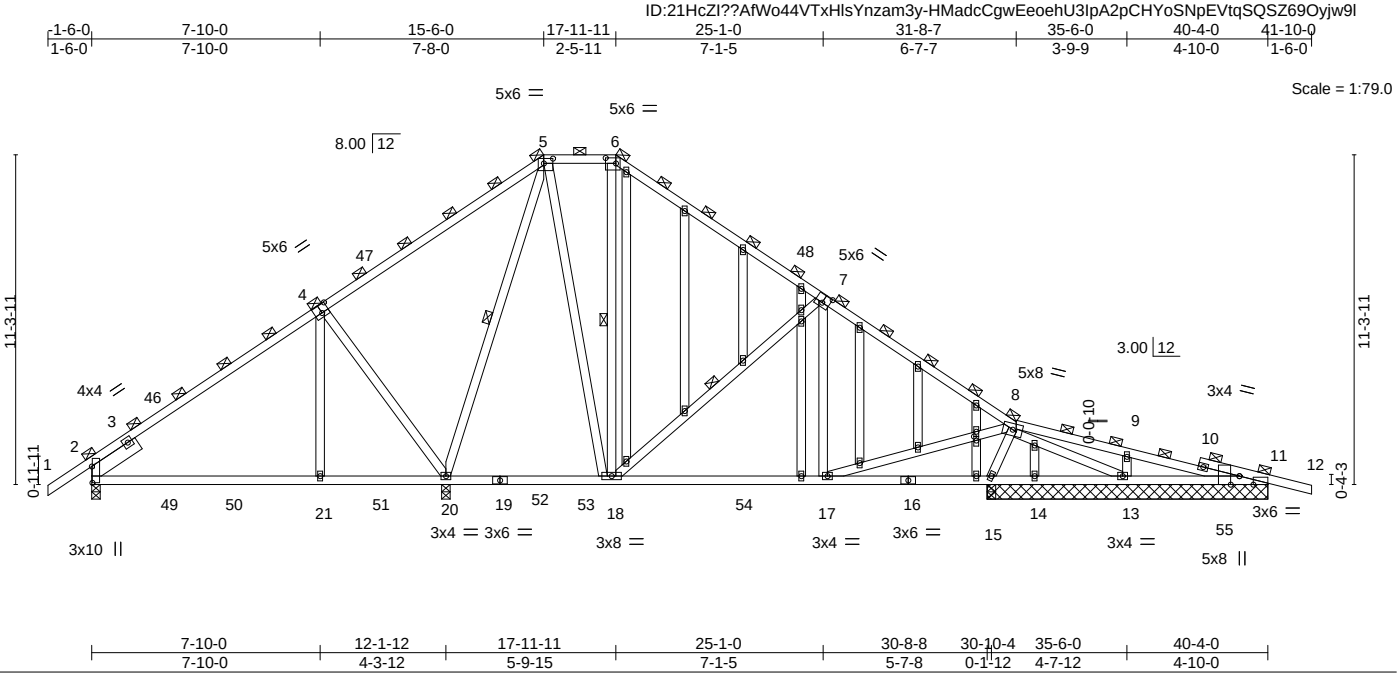

Plate Offsets (X,Y)-- [2:0-6-11,0-0-4], [4:0-3-0,0-3-4], [5:0-3-12,0-2-0], [6:0-4-4,0-2-4], [7:0-3-0,0-3-4], [11:0-5-12,Edge], [11:0-3-8,Edge], [25:0-1-10,0-1-0]

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	0.67	Vert(LL)	-0.10	21-44	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.17	21-44	>844	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	-0.03	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 309 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
SLIDER	Left 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD	2-0-0 oc purlins (5-9-11 max.).
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-17,11-13.
WEBS	1 Row at midpt 5-20, 6-18, 7-18

REACTIONS. All bearings 9-7-8 except (jt=length) 2=0-3-8, 20=0-3-8, 15=0-3-8, 15=0-3-8.
(lb) - Max Horz 2=-284(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 14 except 11=-158(LC 9), 2=-242(LC 12), 20=-130(LC 13), 13=-243(LC 9), 15=-243(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 11, 14, 11 except 2=683(LC 27), 20=1134(LC 2), 13=500(LC 2), 15=904(LC 20), 15=818(LC 1)

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

TOP CHORD	2-4=-586/450, 4-5=-280/389, 5-6=-396/366, 6-7=-575/351, 7-8=-856/311
BOT CHORD	2-21=-277/604, 20-21=-277/605, 18-20=-69/407, 17-18=-143/675
WEBS	4-21=-146/313, 4-20=-575/377, 5-20=-656/57, 5-18=-125/561, 7-18=-449/259, 8-17=-201/832, 8-15=-834/289, 8-13=-264/104

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-6-6, Zone1 2-6-6 to 15-6-0, Zone3 15-6-0 to 17-11-11, Zone2 17-11-11 to 23-8-2, Zone1 23-8-2 to 41-10-0 zone; end vertical left exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 11=158, 2=242, 20=130, 13=243, 15=243, 11=158.
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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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 27,2024

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

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T21	Piggyback Base	1	1	T34843260
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:51 2024 Page 1
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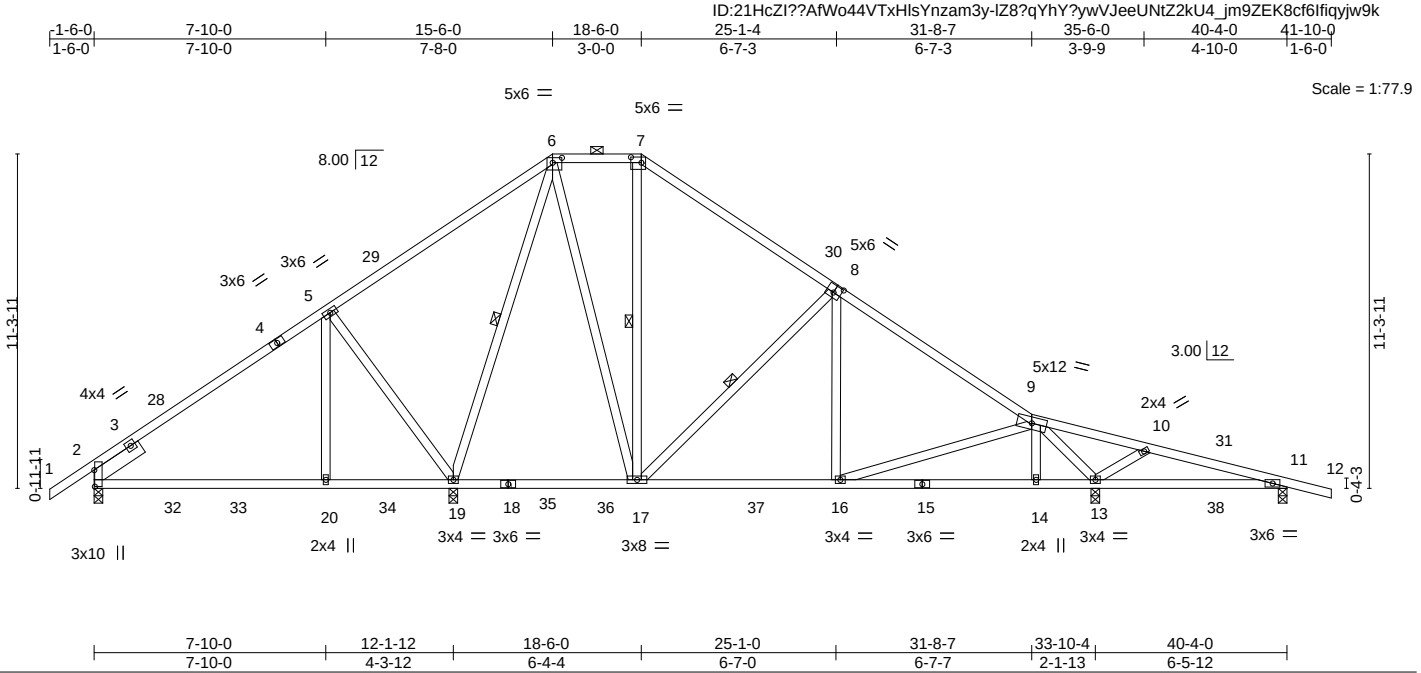

Plate Offsets (X,Y)-- [2:0-6-11,0-0-4], [6:0-3-12,0-2-0], [7:0-4-4,0-2-4], [8:0-3-0,0-3-0]

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)	-0.10	20-23	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.18	20-23	>816	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.03	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 250 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-4-12 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-13.
WEBS	1 Row at midpt 6-19, 7-17, 8-17

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=-285(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-242(LC 12), 19=-148(LC 13), 13=-363(LC 13), 11=-205(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 11 except 2=674(LC 27), 19=1239(LC 2), 13=1363(LC 2)

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

TOP CHORD	2-5=-570/449, 5-6=-269/388, 6-7=-438/378, 7-8=-619/373, 8-9=-987/346, 9-10=-131/482, 10-11=-26/338
BOT CHORD	2-20=-273/586, 19-20=-273/586, 17-19=-65/415, 16-17=-162/781, 14-16=-90/577, 13-14=-85/586, 11-13=-277/60
WEBS	5-20=-147/304, 5-19=-571/377, 6-19=-740/70, 6-17=-130/618, 8-17=-569/282, 8-16=0/268, 9-16=-76/251, 9-13=-1417/383, 10-13=-342/221

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-6-6, Zone1 2-6-6 to 15-6-0, Zone3 15-6-0 to 18-6-0, Zone2 18-6-0 to 24-2-7, Zone1 24-2-7 to 41-10-0 zone; end vertical left exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 242 lb uplift at joint 2, 148 lb uplift at joint 19, 363 lb uplift at joint 13 and 205 lb uplift at joint 11.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

August 27,2024

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

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T22	Piggyback Base	4	1	T34843261
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:52 2024 Page 1
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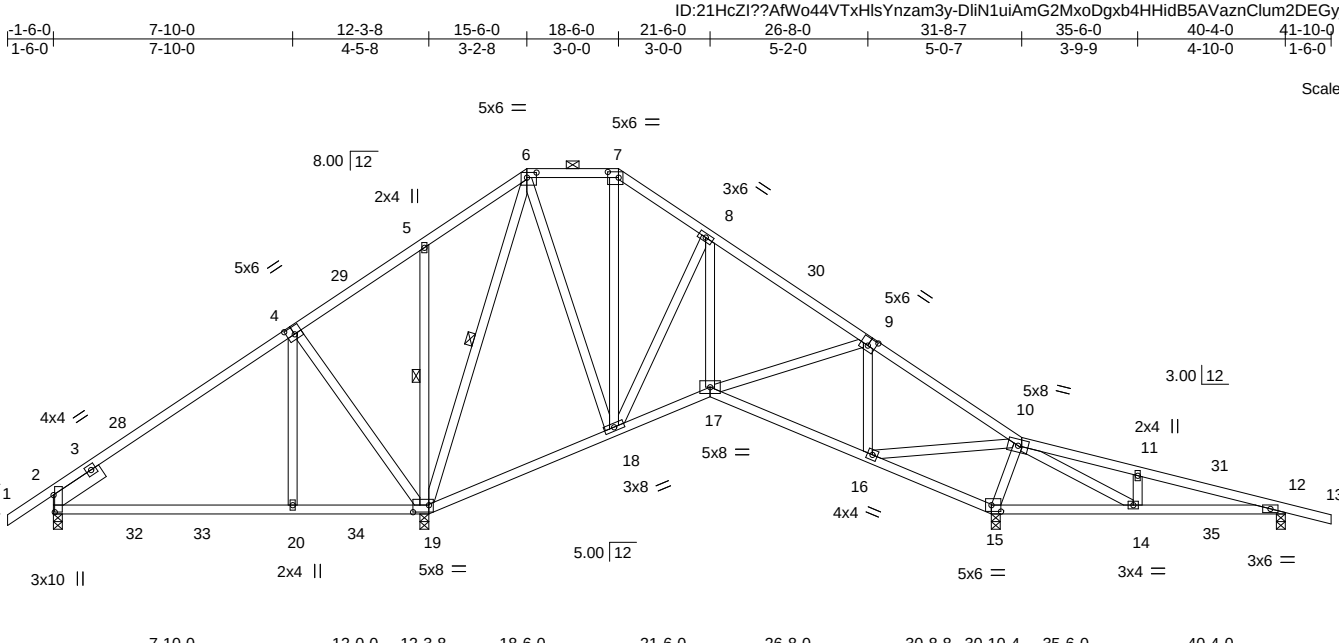

Plate Offsets (X,Y)-- [2:0-6-11,0-0-8], [4:0-3-0,0-3-0], [6:0-3-12,0-2-0], [7:0-4-4,0-2-4], [9:0-3-0,0-3-0], [15:0-3-12,0-2-8], [19:0-6-4,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	-0.10	20-23	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.19	20-23	>784	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.06	15	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 263 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 5-10-15 oc bracing: 15-16 6-0-0 oc bracing: 14-15.
WEBS 1 Row at midpt 5-19, 6-19

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=-285(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 19 except 2=-265(LC 12), 15=-358(LC 13), 12=-243(LC 9)
Max Grav All reactions 250 lb or less at joint(s) except 2=645(LC 27), 19=1088(LC 2), 15=1373(LC 2), 12=299(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-520/442, 4-5=-226/359, 5-6=-189/420, 6-7=-349/334, 7-8=-472/370, 8-9=-798/331, 9-10=-536/192, 10-11=-244/365, 11-12=-233/322
BOT CHORD 2-20=-304/519, 19-20=-304/520, 18-19=-112/406, 17-18=-84/744, 16-17=-74/501, 15-16=-960/363, 14-15=-470/178, 12-14=-264/216
WEBS 4-20=-151/334, 4-19=-517/311, 6-19=-619/0, 6-18=0/506, 8-18=-623/181, 8-17=-32/485, 9-17=-127/297, 9-16=-492/219, 10-16=-351/1225, 10-15=-959/364, 10-14=-432/777

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-6-6, Zone1 2-6-6 to 15-6-0, Zone3 15-6-0 to 18-6-0, Zone2 18-6-0 to 24-2-7, Zone1 24-2-7 to 41-10-0 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19 except (jt=lb) 2=265, 15=358, 12=243.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

August 27,2024

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T22G	GABLE I I	1	1	T34843262
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:53 2024 Page 1
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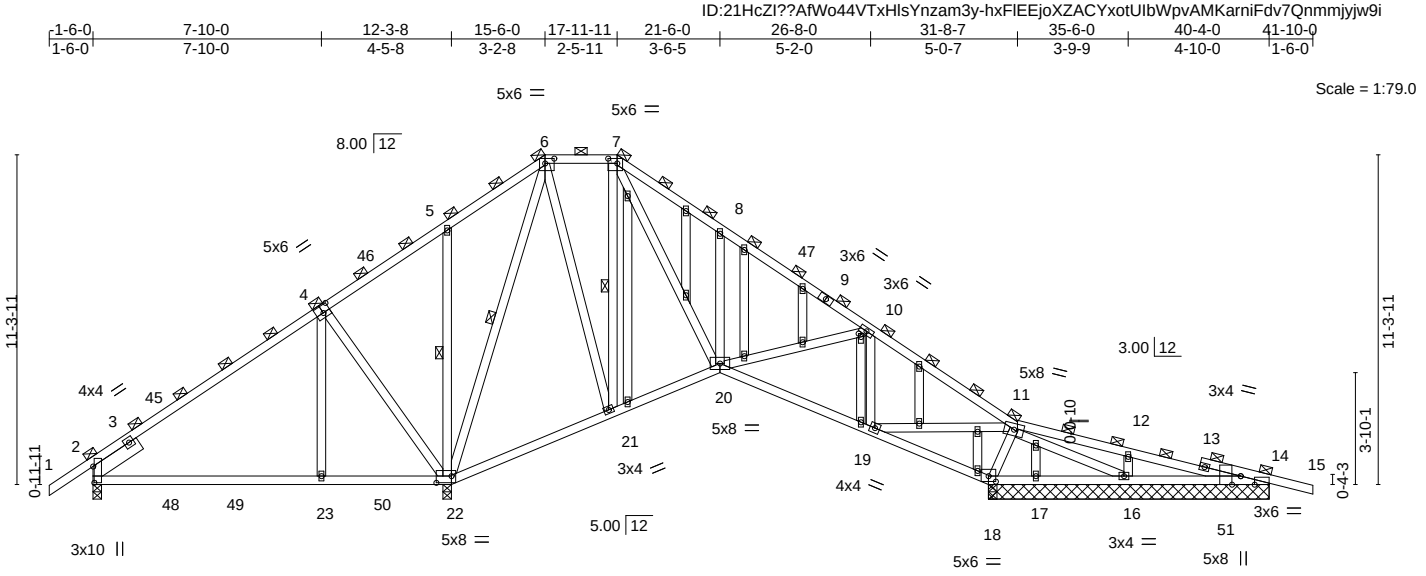

Plate Offsets (X,Y)-- [2:0-6-11,0-0-8], [4:0-3-0,0-3-0], [6:0-3-12,0-2-0], [7:0-3-12,0-2-0], [10:0-1-6,0-1-0], [14:0-3-8,Edge], [14:0-5-12,Edge], [18:0-3-0,0-2-4], [22:0-6-4,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	-0.10	23-43	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.19	23-43	>774	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.07	18	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 300 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
SLIDER Left 2x6 SP No.2 1-11-8

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-22, 6-22, 7-21

REACTIONS. All bearings 9-7-8 except (jt=length) 2=0-3-8, 22=0-3-8.
(lb) - Max Horz 2=-284(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 17 except 14=-160(LC 9), 2=-260(LC 12), 22=-120(LC 13), 18=-291(LC 13), 16=-253(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 14, 17, 14 except 2=633(LC 27), 22=1153(LC 2), 18=1088(LC 2), 18=1043(LC 1), 16=281(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-501/427, 4-5=-210/343, 5-6=-174/405, 6-7=-330/334, 7-8=-839/496, 8-10=-881/358, 10-11=-662/236
BOT CHORD 2-23=-309/498, 22-23=-309/498, 21-22=-123/397, 20-21=-77/497, 19-20=-105/617, 18-19=-798/249, 17-18=-352/103, 16-17=-352/103
WEBS 4-23=-152/337, 4-22=-522/312, 6-22=-673/5, 6-21=-22/542, 7-21=-394/54, 7-20=-250/775, 8-20=-274/220, 10-19=-423/178, 11-19=-314/1233, 11-18=-781/257, 11-16=-38/256

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-6-6, Zone1 2-6-6 to 15-6-0, Zone3 15-6-0 to 17-11-11, Zone2 17-11-11 to 23-8-2, Zone1 23-8-2 to 41-10-0 zone; end vertical left exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (jt=lb) 14=160, 2=260, 22=120, 18=291, 16=253, 14=160.
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:

August 27,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T23	Piggyback Base	5	1	T34843263
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:53 2024 Page 1
ID:21HcZI??AfWo44VTxHlsYnzam3y-hxFlEEjoXZACYxotUIbWpvAHvapii8lv7Qnmmjyjw9i

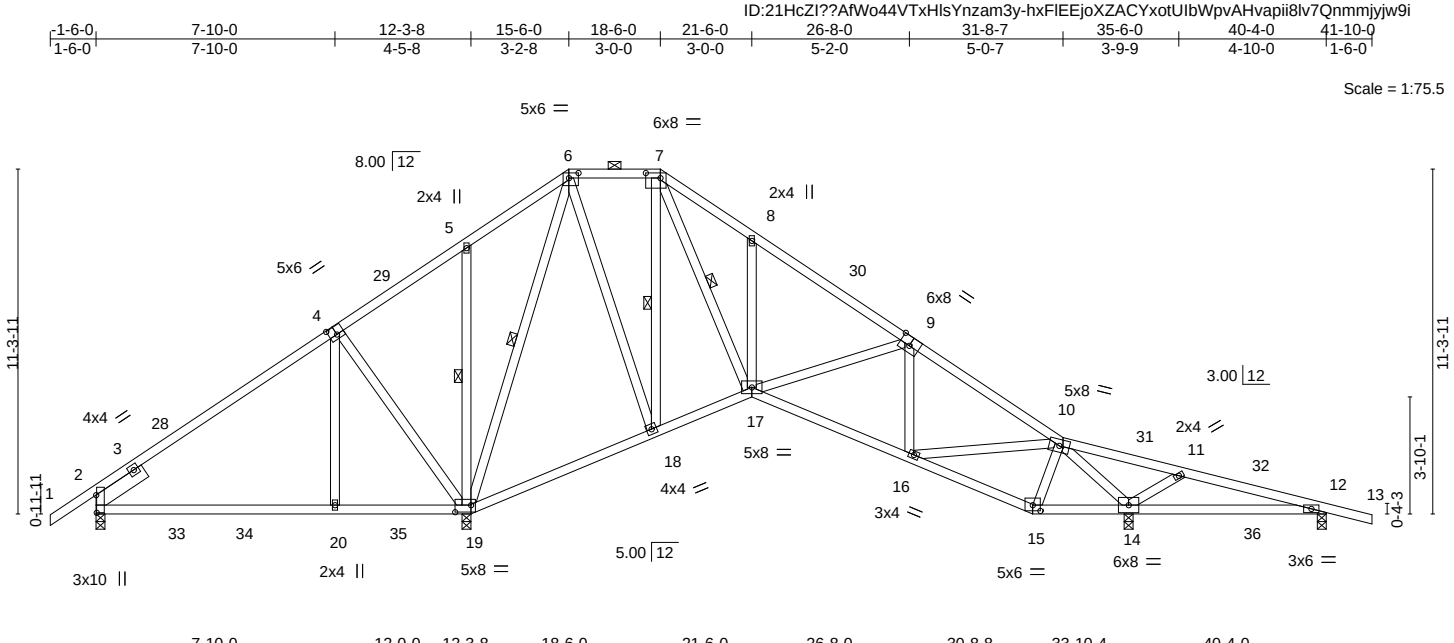

Plate Offsets (X,Y)-- [2:0-6-15,0-0-4], [4:0-3-0,0-3-4], [6:0-3-12,0-2-0], [7:0-5-12,0-2-0], [9:0-4-0,Edge], [15:0-3-0,0-2-4], [19:0-6-4,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.78	Vert(LL)	0.20	20-23	>745	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.22	20-23	>668	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.12	14	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 264 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 7-9,9-10: 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-7 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 4-11-2 oc bracing.
WEBS 1 Row at midpt 5-19, 6-19, 7-18, 7-17

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=-285(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-210(LC 12), 19=-376(LC 8), 12=-213(LC 11), 14=-738(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 12 except 2=483(LC 27), 19=1836(LC 20), 14=2213(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-344/257, 4-5=-103/412, 5-6=-108/478, 6-7=-473/514, 7-8=-1477/1357, 8-9=-1657/1391, 9-10=-2131/1899, 10-11=-966/1221, 11-12=-679/937
BOT CHORD 2-20=-318/332, 19-20=-318/332, 18-19=-139/351, 17-18=-189/644, 16-17=-1458/1832, 15-16=-553/702, 14-15=-628/697, 12-14=-853/665
WEBS 4-20=-303/344, 4-19=-553/469, 6-19=-1392/669, 6-18=-623/1078, 7-18=-966/702, 7-17=-1533/1830, 8-17=-551/631, 9-17=-606/636, 9-16=-421/461, 10-16=-848/1084, 10-15=-223/299, 10-14=-2548/2245, 11-14=-464/358

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-6-6, Zone1 2-6-6 to 15-6-0, Zone3 15-6-0 to 18-6-0, Zone2 18-6-0 to 24-2-7, Zone1 24-2-7 to 41-10-0 zone; end vertical left exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 210 lb uplift at joint 2, 376 lb uplift at joint 19, 213 lb uplift at joint 12 and 738 lb uplift at joint 14.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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Date:

August 27,2024

Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-6=-54, 6-7=-54, 7-8=-54, 8-10=-154, 10-31=-154, 13-31=-54, 19-21=-20, 17-19=-20, 15-17=-20, 15-25=-20

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T24	Roof Special	2	1	T34843264
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:54 2024 Page 1
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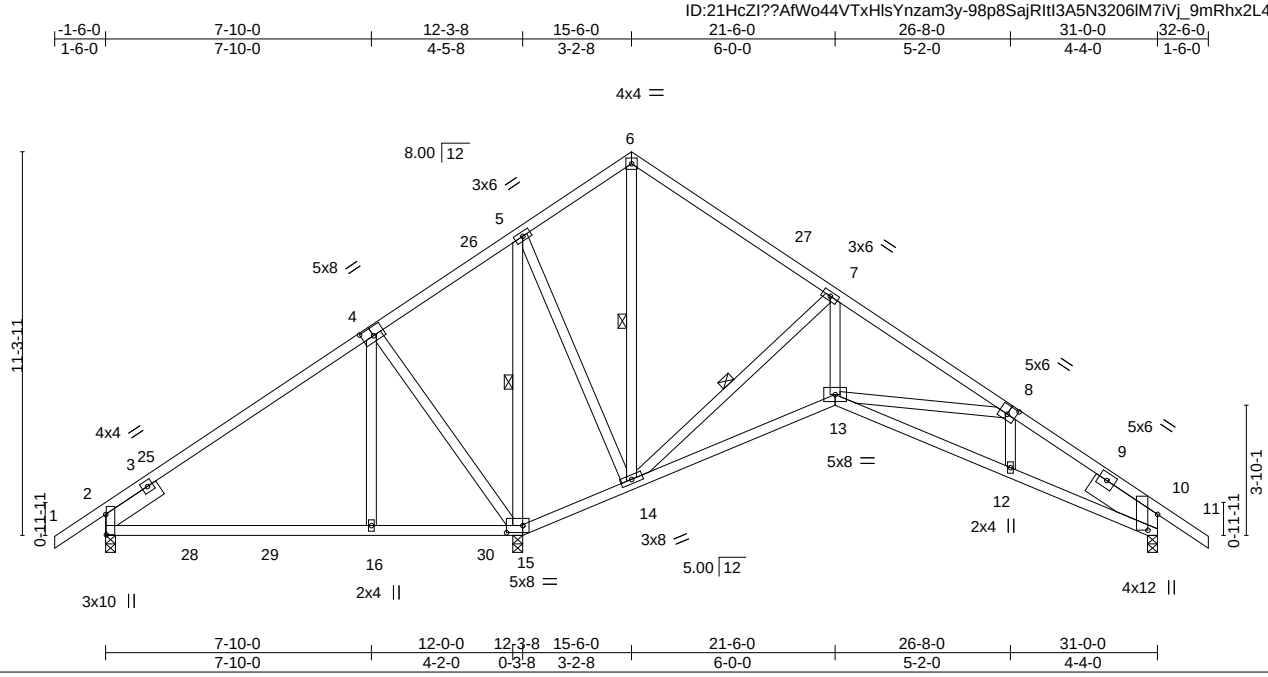

Plate Offsets (X,Y)-- [2:0-7-3,0-0-4], [4:0-4-0,0-3-0], [8:0-3-0,0-3-0], [10:0-5-10,0-3-7], [15:0-5-12,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.13	16-19	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.23	16-19	>638	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.13	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 205 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 1-11-8, Right 2x8 SP 2400F 2.0E 2-4-13

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-7-8 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 5-15, 6-14, 7-14

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 10=0-3-8
Max Horz 2=-280(LC 10)
Max Uplift 2=-216(LC 9), 15=-220(LC 13), 10=-229(LC 13)
Max Grav 2=478(LC 25), 15=1625(LC 2), 10=697(LC 20)

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

TOP CHORD	2-4=-337/288, 4-5=0/464, 7-8=-939/328, 8-10=-1224/349
BOT CHORD	2-16=-360/197, 15-16=-361/198, 14-15=-556/268, 13-14=-171/908, 12-13=-218/1070, 10-12=-207/1029
WEBS	4-16=-148/366, 4-15=-582/304, 5-15=-1024/48, 5-14=0/821, 6-14=-306/0, 7-14=-1030/268, 7-13=-112/924, 8-13=-354/229

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-7-3, Zone1 1-7-3 to 15-6-0, Zone2 15-6-0 to 19-10-10, Zone1 19-10-10 to 32-6-0 zone; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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 216 lb uplift at joint 2, 220 lb uplift at joint 15 and 229 lb uplift at joint 10.

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Date:

August 27,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T24G	GABLE	1	1	T34843265
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:55 2024 Page 1
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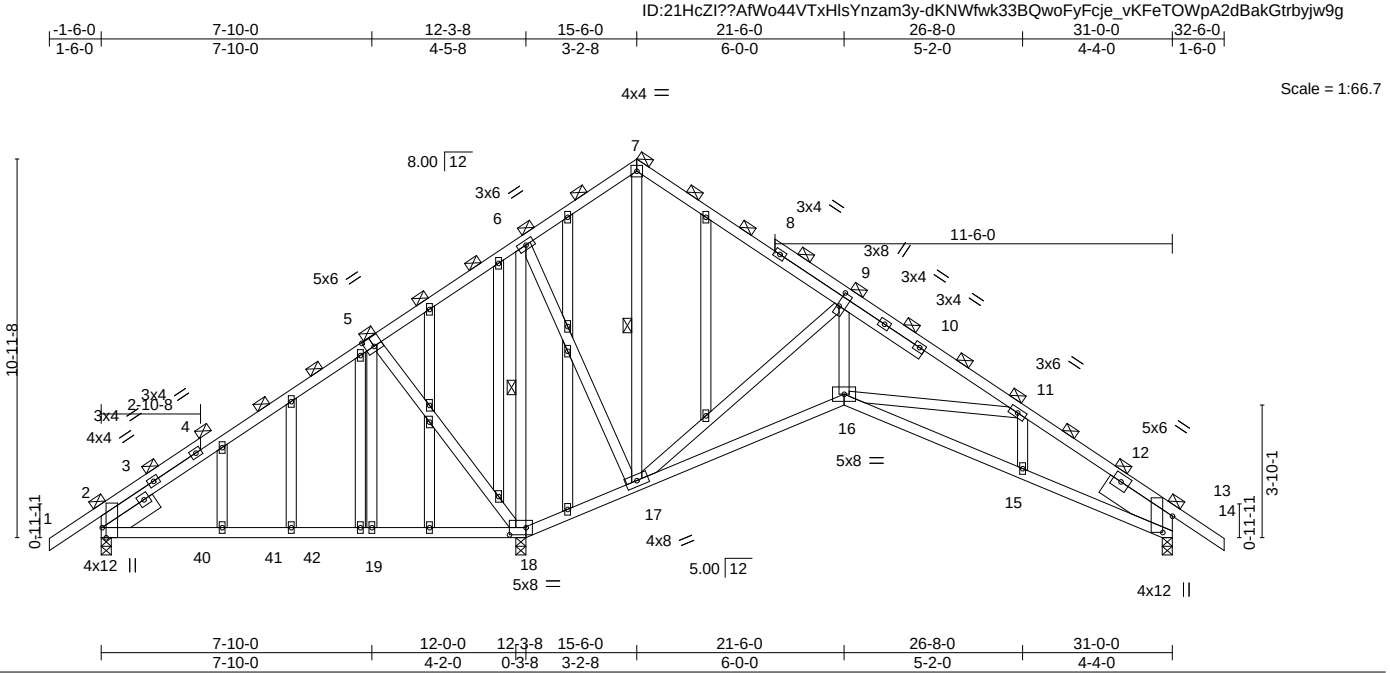

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [5:0-3-0,0-3-4], [9:0-5-0,0-0-12], [13:0-5-11,0-3-5], [18:0-5-12,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.71	Vert(LL)	0.19	2-19	>748	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.17	2-19	>856	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.08	13	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 272 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
SLIDER Left 2x6 SP No.2 1-8-15, Right 2x8 SP 2400F 2.0E 2-4-10

BRACING-
TOP CHORD 2-0-0 oc purlins (5-9-2 max.).
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-18, 7-17

REACTIONS. (size) 2=0-3-8, 18=0-3-8, 13=0-3-8
Max Horz 2=-282(LC 6)
Max Uplift 2=-235(LC 8), 18=-383(LC 8), 13=-202(LC 9)
Max Grav 2=344(LC 21), 18=1902(LC 2), 13=541(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-158/508, 5-6=-81/728, 6-7=0/354, 7-9=-18/356, 9-11=-497/131, 11-13=-883/282
BOT CHORD 2-19=-412/322, 18-19=-407/312, 17-18=-694/336, 16-17=0/510, 15-16=-132/778, 13-15=-165/751
WEBS 5-19=-149/342, 5-18=-587/353, 6-18=-1165/129, 6-17=-138/890, 7-17=-488/0, 9-17=-834/257, 9-16=-60/630, 11-16=-295/223

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) 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, with BCDL = 10.0psf.
9) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 235 lb uplift at joint 2, 383 lb uplift at joint 18 and 202 lb uplift at joint 13.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 105 lb down and 96 lb up at 2-10-8, and 59 lb down and 67 lb up at 4-11-5 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).

Continued on page 2

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Date:

August 27,2024

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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: 1-7=-54, 7-14=-54, 2-18=-20, 16-18=-20, 16-36=-20
   Concentrated Loads (lb)
   Vert: 40=19(B) 41=7(B)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T25	Common	3	1	T34843266
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:56 2024 Page 1
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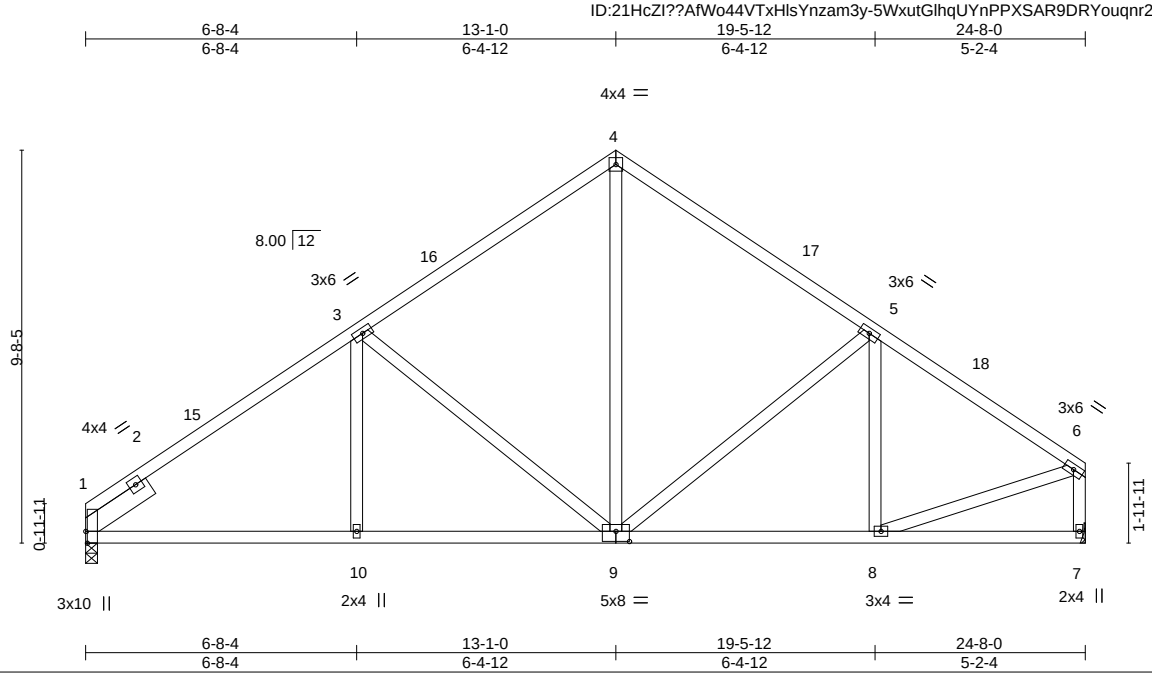

Plate Offsets (X,Y)-- [1:0-3-8,Edge], [9:0-4-0,0-3-0]

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	0.42	Vert(LL)	-0.05	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.11	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 147 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 7=Mechanical
Max Horz 1=212(LC 9)
Max Uplift 1=-221(LC 12), 7=-211(LC 13)
Max Grav 1=907(LC 1), 7=907(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1163/292, 3-4=-834/282, 4-5=-836/287, 5-6=-969/236, 6-7=-862/222
BOT CHORD 1-10=-315/940, 9-10=-315/940, 8-9=-147/757
WEBS 3-9=-425/269, 4-9=-159/510, 5-9=-252/207, 6-8=-147/763

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 13-1-0, Zone2 13-1-0 to 17-3-15, Zone1 17-3-15 to 24-6-4 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) 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 221 lb uplift at joint 1 and 211 lb uplift at joint 7.

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Date:

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T25G	GABLE	1	1	T34843267
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:56 2024 Page 1
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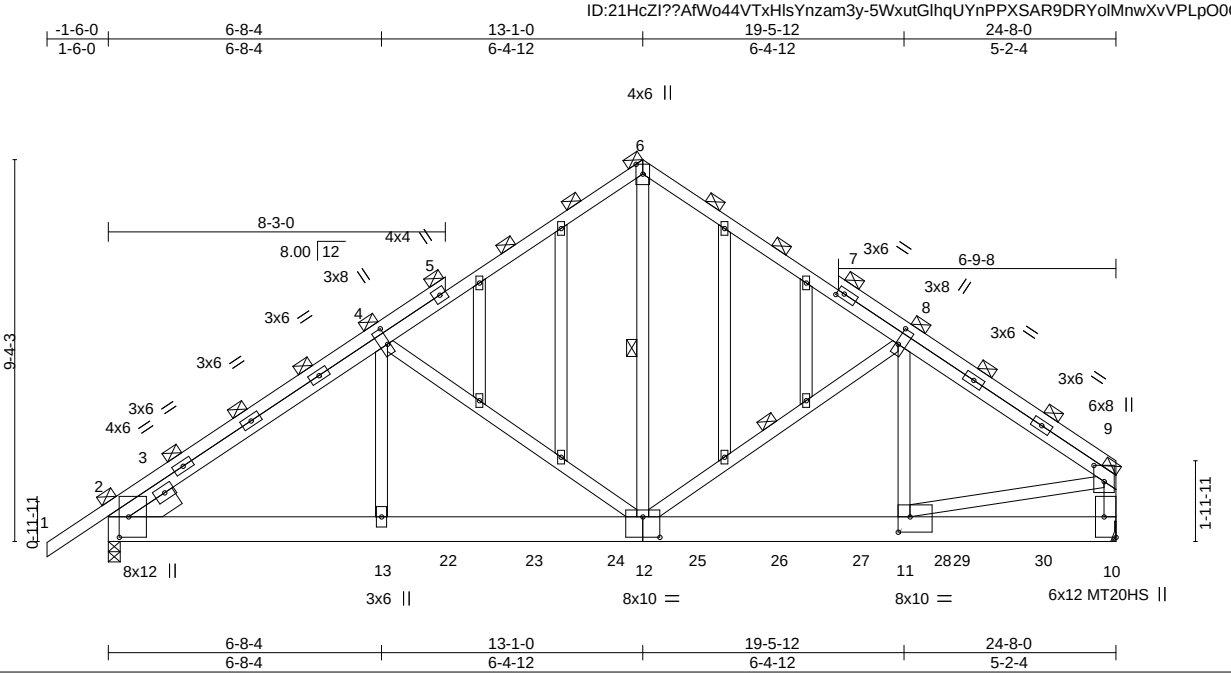

Plate Offsets (X,Y)-- [2:0-6-0,0-2-12], [4:0-5-0,0-0-12], [7:0-2-0,0-1-8], [8:0-5-0,0-0-12], [9:0-4-12,0-3-0], [10:Edge,0-3-8], [11:0-3-8,0-4-8], [12:0-5-0,0-6-0]

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	0.96	Vert(LL)	0.12	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.15	11-12	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.97	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 235 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x8 SP 2400F 2.0E
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 1-3-5

BRACING-

TOP CHORD	2-0-0 oc purlins (2-11-12 max.), except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 6-12, 8-12

REACTIONS. (size) 2=0-3-8, 10=Mechanical
Max Horz 2=222(LC 26)
Max Uplift 2=-952(LC 8), 10=-1167(LC 9)
Max Grav 2=1997(LC 1), 10=2834(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2758/1398, 4-6=-2241/1132, 6-8=-2242/1130, 8-9=-3115/1310, 9-10=-2453/1032
BOT CHORD 2-13=-1237/2282, 12-13=-1235/2274, 11-12=-1044/2564
WEBS 4-13=-301/405, 4-12=-655/524, 6-12=-1088/2044, 8-12=-999/438, 8-11=-269/796, 9-11=-1036/2543

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) 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 MT20 plates unless otherwise indicated.
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) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 952 lb uplift at joint 2 and 1167 lb uplift at joint 10.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 481 lb down and 460 lb up at 8-3-8, 212 lb down and 206 lb up at 10-4-12, 188 lb down and 177 lb up at 12-4-12, 356 lb down and 157 lb up at 14-4-12, 356 lb down and 157 lb up at 16-4-12, 356 lb down and 157 lb up at 18-4-12, 356 lb down and 157 lb up at 20-4-12, and 356 lb down and 157 lb up at 20-10-6, and 356 lb down and 157 lb up at 22-10-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
14) 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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August 27,2024

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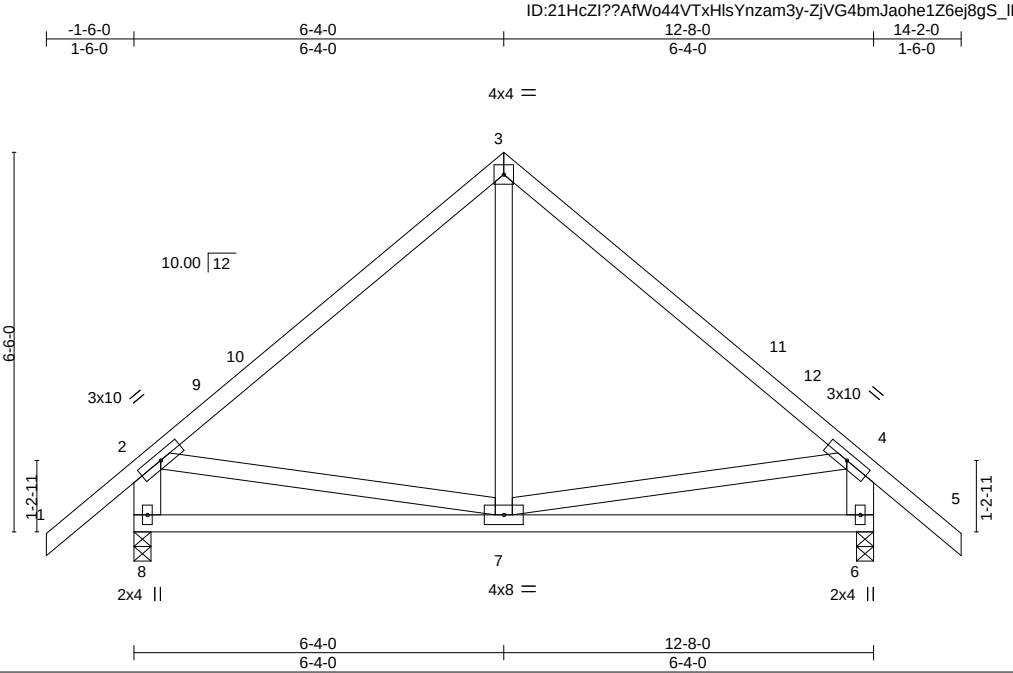
LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-6=-54, 6-9=-54, 2-10=-20
   Concentrated Loads (lb)
   Vert: 22=-436(B) 23=-191(B) 24=-182(B) 25=-356(B) 26=-356(B) 27=-356(B) 28=-356(B) 29=-356(B) 30=-356(B)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T26	Common	2	1	T34843268
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:57 2024 Page 1
ID:21HcZI??AfWo44VTxHlsYnzam3y-ZjVG4bmJaohe1Z6ej8gS_lK3dBEeeANU12l_vUyjw9e



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)	-0.03	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.06	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 80 lb	FT = 20%

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

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

REACTIONS. (size) 8=0-3-8, 6=0-3-8
Max Horz 8=-200(LC 10)
Max Uplift 8=-143(LC 12), 6=-143(LC 13)
Max Grav 8=545(LC 1), 6=545(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-425/169, 3-4=-425/169, 2-8=-491/292, 4-6=-491/292
BOT CHORD 7-8=-231/309

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-4-0, Zone2 6-4-0 to 10-6-15, Zone1 10-6-15 to 14-2-0 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) 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 143 lb uplift at joint 8 and 143 lb uplift at joint 6.

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T26G	Common Supported Gable	1	1	T34843269
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:58 2024 Page 1
ID:21HcZl??AfWo44VTxHlsYnzam3y-2v3eIxnxL6pVfjhqHrBhWztG1bfLNd_eGiVXSwyjw9d

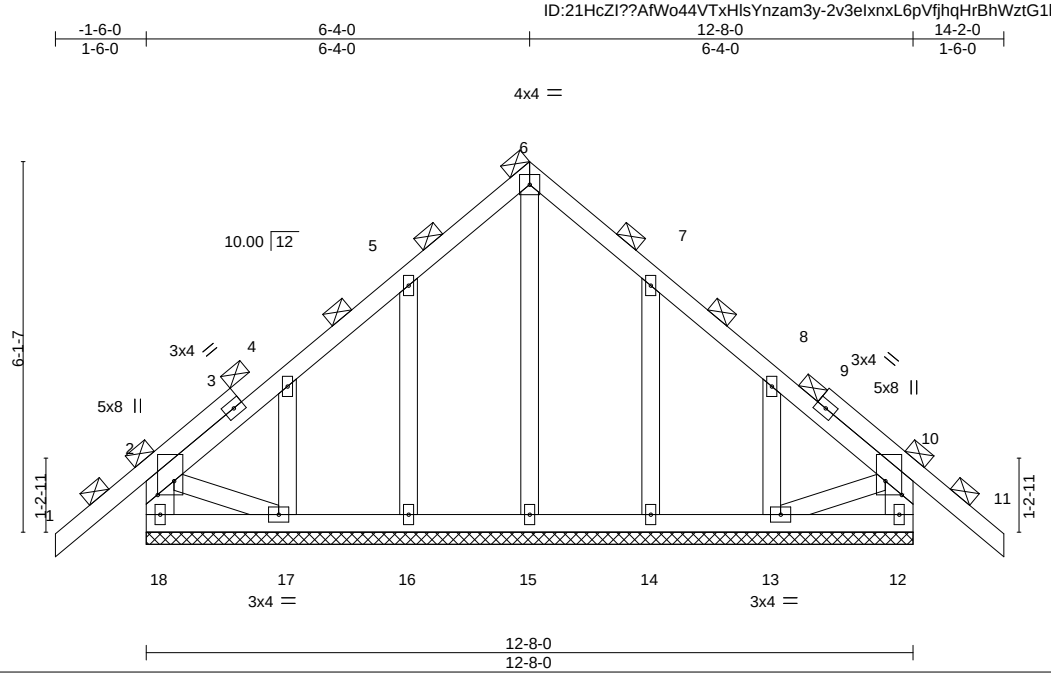

Plate Offsets (X,Y)-- [2:0-2-12,Edge], [10:0-2-12,Edge]

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	0.25	Vert(LL)	-0.01	11	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.02	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 90 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2 *Except*
2-17,10-13: 2x4 SP No.3
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 12-8-0.
(lb) - Max Horz 18=-184(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 18, 12 except 16=-109(LC 12), 17=-129(LC 12), 14=-109(LC 13), 13=-125(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 18, 12, 15, 16, 17, 14, 13

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 12 except (jt=lb) 16=109, 17=129, 14=109, 13=125.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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August 27,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T27	Roof Special	1	1	T34843270
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:58 2024 Page 1
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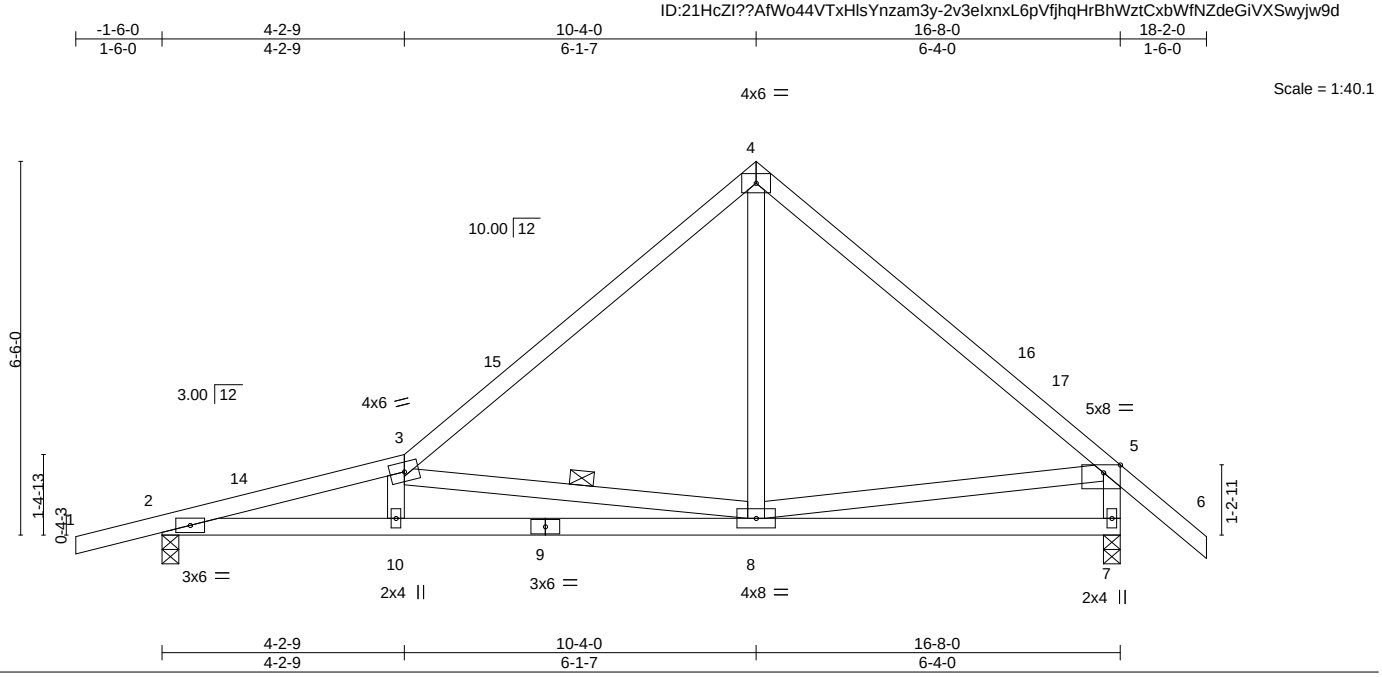

Plate Offsets (X,Y)-- [5:0-3-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.08	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.18	8-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 90 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 4-4-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-7 oc bracing.
WEBS 1 Row at midpt 3-8

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=187(LC 11)
Max Uplift 2=-200(LC 12), 7=-170(LC 13)
Max Grav 2=692(LC 1), 7=701(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1786/565, 3-4=-626/242, 4-5=-642/247, 5-7=-649/358
BOT CHORD 2-10=-505/1720, 8-10=-512/1711
WEBS 3-8=-1327/536, 4-8=-78/425, 5-8=-97/336

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 10-4-0, Zone2 10-4-0 to 14-6-15, Zone1 14-6-15 to 18-2-0 zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=200, 7=170.

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - LIPPI RES.
4177528	T27G	Roof Special Structural Gable	1	1	T34843271
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:45:59 2024 Page 1
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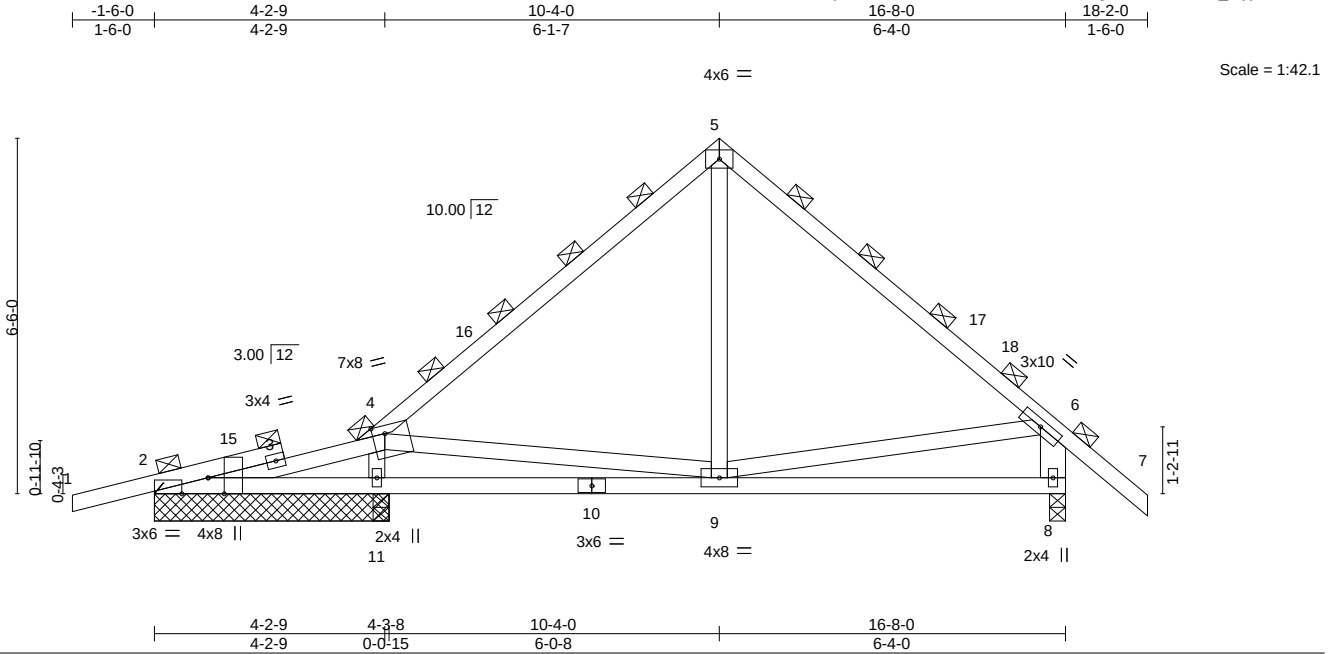

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-5-12,Edge], [4:0-2-12,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.03	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.06	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	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 *Except*
6-8: 2x6 SP No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-3-8 except (jt=length) 8=0-3-8.
(lb) - Max Horz 2=187(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-147(LC 8), 11=-180(LC 12), 8=-146(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 2 except 11=619(LC 1), 11=619(LC 1), 8=550(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-432/178, 5-6=-431/181, 6-8=-495/312
WEBS 4-11=-498/252

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 10-4-0, Zone2 10-4-0 to 14-6-15, Zone1 14-6-15 to 18-2-0 zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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 147 lb uplift at joint 2, 180 lb uplift at joint 11, 146 lb uplift at joint 8 and 147 lb uplift at joint 2.
7) 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	IC CONST. - LIPPI RES.
4177528	T28	Roof Special Girder	1	2	T34843272
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Aug 26 16:46:00 2024 Page 1
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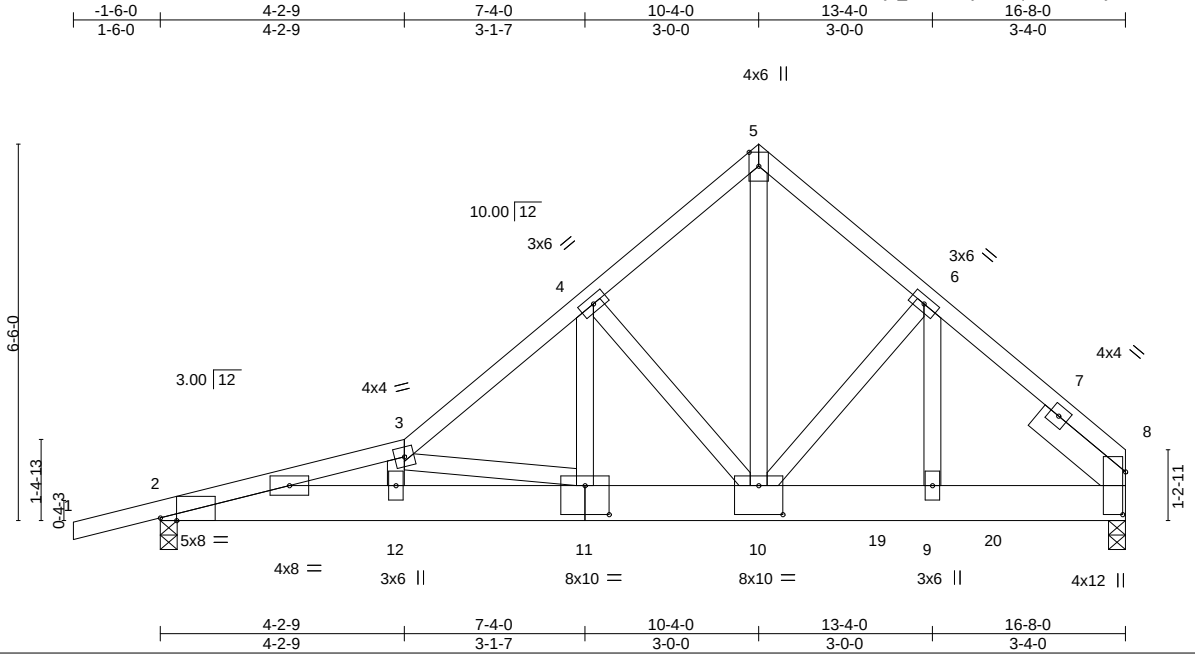

Plate Offsets (X,Y)-- [2:0-3-6,Edge], [8:0-8-14,0-0-9], [10:0-5-0,0-6-0], [11:0-5-0,0-6-0]

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	0.42	Vert(LL)	-0.10	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.18	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 249 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=159(LC 5)
Max Uplift 8=-1418(LC 8), 2=-739(LC 8)
Max Grav 8=4660(LC 1), 2=2135(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-6400/2182, 3-4=-4715/1642, 4-5=-3703/1359, 5-6=-3663/1360, 6-8=-4065/1366
BOT CHORD 2-12=-2202/6187, 11-12=-2245/6294, 10-11=-1301/3623, 9-10=-975/3003, 8-9=-975/3003
WEBS 3-12=-700/283, 3-11=-2791/987, 4-11=-468/1405, 4-10=-1245/521, 5-10=-1647/4440, 6-10=-330/116, 6-9=-131/529

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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1418 lb uplift at joint 8 and 739 lb uplift at joint 2.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2814 lb down and 1187 lb up at 10-4-12, 887 lb down and 231 lb up at 12-4-12, and 887 lb down and 231 lb up at 14-4-12, and 895 lb down and 224 lb up at 16-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

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

August 27,2024

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: 1-3=-54, 3-5=-54, 5-8=-54, 2-13=-20
   Concentrated Loads (lb)
   Vert: 10=-2814(F) 13=-895(F) 19=-887(F) 20=-887(F)

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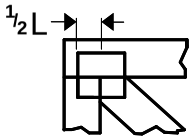
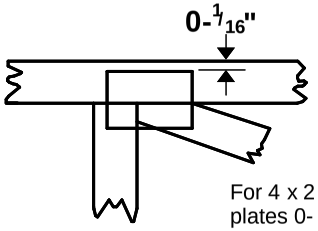
Symbols

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.

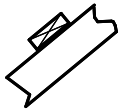
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

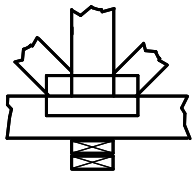
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

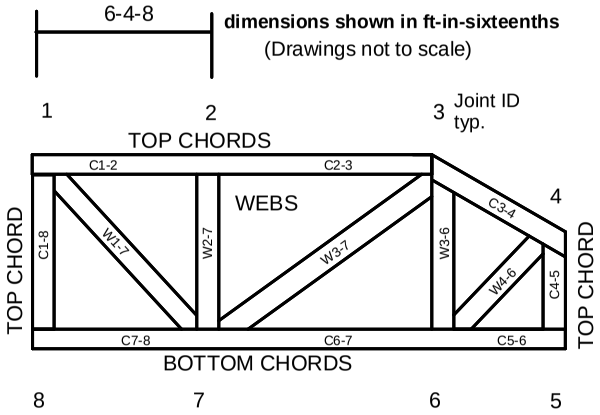


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

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.