



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

RE: 241107-01JG - The Bundy Residence

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

Site Information:

Customer Info: Axis Management Project Name: The Bundy Residence Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Columbia County State: FL

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

Name: License #:
Address:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.8
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 15 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.

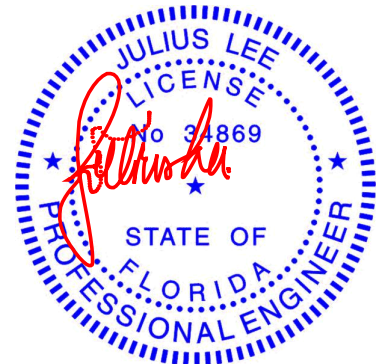
No.	Seal#	Truss Name	Date
1	T35771444	G01	12/10/24
2	T35771445	G02	12/10/24
3	T35771446	GE01	12/10/24
4	T35771447	GE02	12/10/24
5	T35771448	GE03	12/10/24
6	T35771449	GE04	12/10/24
7	T35771450	GE05	12/10/24
8	T35771451	M01	12/10/24
9	T35771452	M02	12/10/24
10	T35771453	M03	12/10/24
11	T35771454	M04	12/10/24
12	T35771455	M05	12/10/24
13	T35771456	T01	12/10/24
14	T35771457	T02	12/10/24
15	T35771458	T03	12/10/24

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Coastal Truss & Vinyl Siding.

Truss Design Engineer's Name: Lee, Julius

My license renewal date for the state of Florida is February 28, 2025.

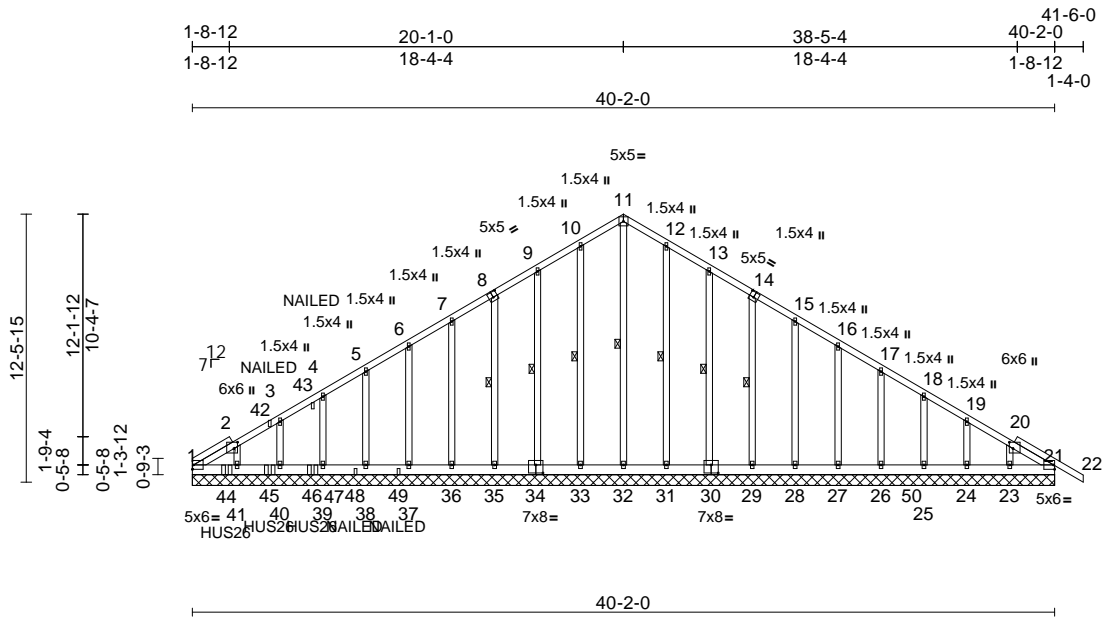
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 10, 2024

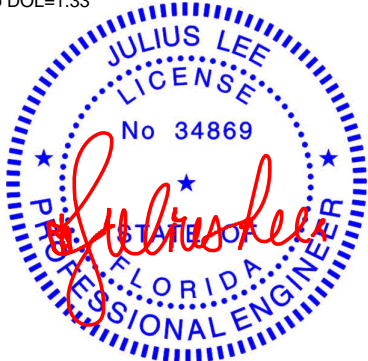
Job	Truss	Truss Type	Qty	Ply	The Bundy Residence
241107-01JG	G01	Common Girder	1	1	T35771444
					Job Reference (optional)



Scale = 1:94.5
Plate Offsets (X, Y): [2:0-3-8,0-2-0], [8:0-2-8,0-3-0], [14:0-2-8,0-3-0], [20:0-3-8,0-2-0], [30:0-4-0,0-4-8], [34:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.12	Vert(LL)	n/a	-	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.01	21	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S						Weight: 338 lb	FT = 20%

LUMBER		Max Grav	1=190 (LC 14), 21=188 (LC 1), 23=175 (LC 14), 24=164 (LC 14), 25=185 (LC 14), 26=232 (LC 14), 27=232 (LC 14), 28=224 (LC 14), 29=227 (LC 14), 30=238 (LC 14), 31=238 (LC 14), 32=237 (LC 25), 33=242 (LC 13), 34=236 (LC 13), 35=227 (LC 13), 36=226 (LC 13), 37=251 (LC 13), 38=491 (LC 13), 39=535 (LC 1), 40=455 (LC 1), 41=484 (LC 13)	WEBS	11-32=-217/20, 10-33=-139/76, 9-34=-136/101, 8-35=-131/89, 7-36=-123/85, 6-37=-134/91, 5-38=-124/93, 4-39=-204/108, 3-40=-183/105, 2-41=-172/130, 12-31=-134/76, 13-30=-138/101, 14-29=-130/89, 15-28=-123/85, 16-27=-132/91, 17-26=-131/89, 18-25=-130/89, 19-24=-126/79, 20-23=-135/101
TOP CHORD	2x4 SP No.2				
BOT CHORD	2x6 SP No.2				
OTHERS	2x4 SP No.2				
BRACING					
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.				
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.				
WEBS	1 Row at midpt	11-32, 10-33, 9-34, 8-35, 12-31, 13-30, 14-29			
REACTIONS (size)		1=40-2-0, 21=40-2-0, 23=40-2-0, 24=40-2-0, 25=40-2-0, 26=40-2-0, 27=40-2-0, 28=40-2-0, 29=40-2-0, 30=40-2-0, 31=40-2-0, 32=40-2-0, 33=40-2-0, 34=40-2-0, 35=40-2-0, 36=40-2-0, 37=40-2-0, 38=40-2-0, 39=40-2-0, 40=40-2-0, 41=40-2-0	FORCES (lb) - Maximum Compression/Maximum Tension		
Max Horiz	1=-356 (LC 6)		TOP CHORD	1-2=-264/265, 2-3=-227/220, 3-4=-223/220, 4-5=-199/187, 5-6=-176/168, 6-7=-159/147, 7-9=-140/184, 9-10=-104/245, 10-11=-89/293, 11-12=-76/293, 12-13=-59/245, 13-15=-51/184, 15-16=-67/78, 16-17=-82/61, 17-18=-96/81, 18-19=-111/102, 19-20=-145/117, 20-21=-208/148, 21-22=0/24	
Max Uplift	1=-77 (LC 6), 21=-19 (LC 24), 23=-72 (LC 8), 24=-62 (LC 25), 25=-69 (LC 25), 26=-70 (LC 8), 27=-71 (LC 8), 28=-64 (LC 25), 29=-69 (LC 8), 30=-81 (LC 25), 31=-55 (LC 8), 33=-55 (LC 25), 34=-81 (LC 8), 35=-70 (LC 25), 36=-67 (LC 8), 37=-62 (LC 25), 38=-135 (LC 8), 39=-157 (LC 8), 40=-139 (LC 8), 41=-181 (LC 8)		BOT CHORD	1-41=-129/229, 40-41=-129/229, 39-40=-129/229, 38-39=-129/229, 37-38=-129/229, 36-37=-129/229, 35-36=-129/229, 33-35=-129/231, 32-33=-129/230, 31-32=-129/230, 29-31=-130/231, 28-29=-128/229, 27-28=-128/229, 26-27=-128/229, 25-26=-128/229, 24-25=-128/229, 23-24=-128/229, 21-23=-128/229	



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

December 10,2024

Job	Truss	Truss Type	Qty	Ply	The Bundy Residence
241107-01JG	G01	Common Girder	1	1	T35771444
					Job Reference (optional)

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 (||) MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) All bearings are assumed to be SP No.2 .
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 1, 55 lb uplift at joint 33, 81 lb uplift at joint 34, 70 lb uplift at joint 35, 67 lb uplift at joint 36, 62 lb uplift at joint 37, 135 lb uplift at joint 38, 157 lb uplift at joint 39, 139 lb uplift at joint 40, 181 lb uplift at joint 41, 55 lb uplift at joint 31, 81 lb uplift at joint 30, 69 lb uplift at joint 29, 64 lb uplift at joint 28, 71 lb uplift at joint 27, 70 lb uplift at joint 26, 69 lb uplift at joint 25, 62 lb uplift at joint 24, 72 lb uplift at joint 23 and 19 lb uplift at joint 21.
- 12) Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-7-4 from the left end to 5-7-4 to connect truss(es) to front face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.
- 16) 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 (lb/ft)
Vert: 1-11=-60, 11-22=-60, 1-21=-20
Concentrated Loads (lb)
Vert: 42=-42 (F), 43=-102 (F), 44=-253 (F), 45=-253 (F), 46=-253 (F), 48=-355 (F), 49=-68 (F)

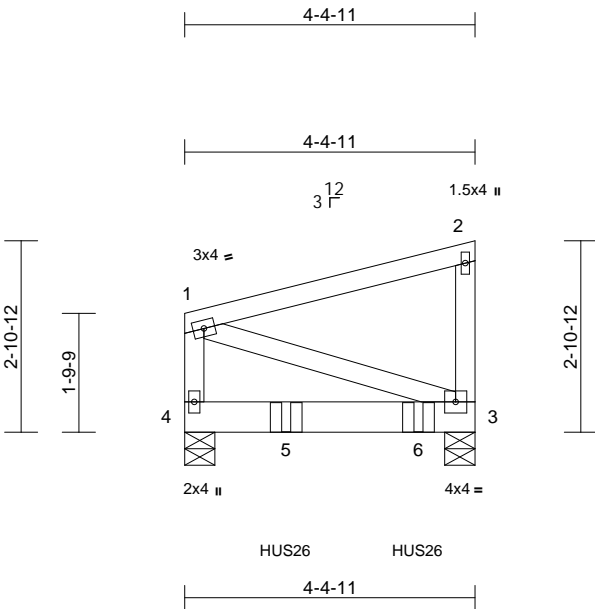
 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	The Bundy Residence
241107-01JG	G02	Monopitch Girder	1	1	T35771445
					Job Reference (optional)



Scale = 1:31.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	0.02	3-4	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.05	3-4	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00	3	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-P							
										Weight: 28 lb	FT = 20%

- LUMBER**
- TOP CHORD 2x4 SP No.2
- BOT CHORD 2x6 SP No.2
- WEBS 2x4 SP No.2
- BRACING**
- TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (size) 3=0-5-8, 4=0-5-8
- Max Horiz 4=119 (LC 5)
- Max Uplift 3=-208 (LC 5), 4=-138 (LC 4)
- Max Grav 3=592 (LC 1), 4=466 (LC 1)
- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=-62/38, 2-3=-123/58, 1-4=-123/63
- BOT CHORD 3-4=-112/55
- WEBS 1-3=-44/78

- NOTES**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft;
B=60ft; L=50ft; eave=6ft; Cat. II; Exp C; Enclosed;
MWFRS (directional); cantilever left and right exposed ;
end vertical left and right exposed; Lumber DOL=1.33
plate grip DOL=1.33
 - 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
3-06-00 tall by 1-00-00 wide will fit between the bottom
chord and any other members.
 - 5) All bearings are assumed to be SP No.2 .
 - 6) H10A Simpson Strong-Tie connectors recommended to
connect truss to bearing walls due to UPLIFT at jt(s) 3
and 4. This connection is for uplift only and does not
consider lateral forces.

- 7) Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d
Truss) or equivalent spaced at 2-0-0 oc max. starting at
7-5-4 from the left end to 9-5-4 to connect truss(es) to
front face of bottom chord.
 - 8) Fill all nail holes where hanger is in contact with lumber.
 - 9) In the LOAD CASE(S) section, loads applied to the face
of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25,
Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-60, 3-4=-20
Concentrated Loads (lb)
Vert: 5=-360 (F), 6=-370 (F)



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

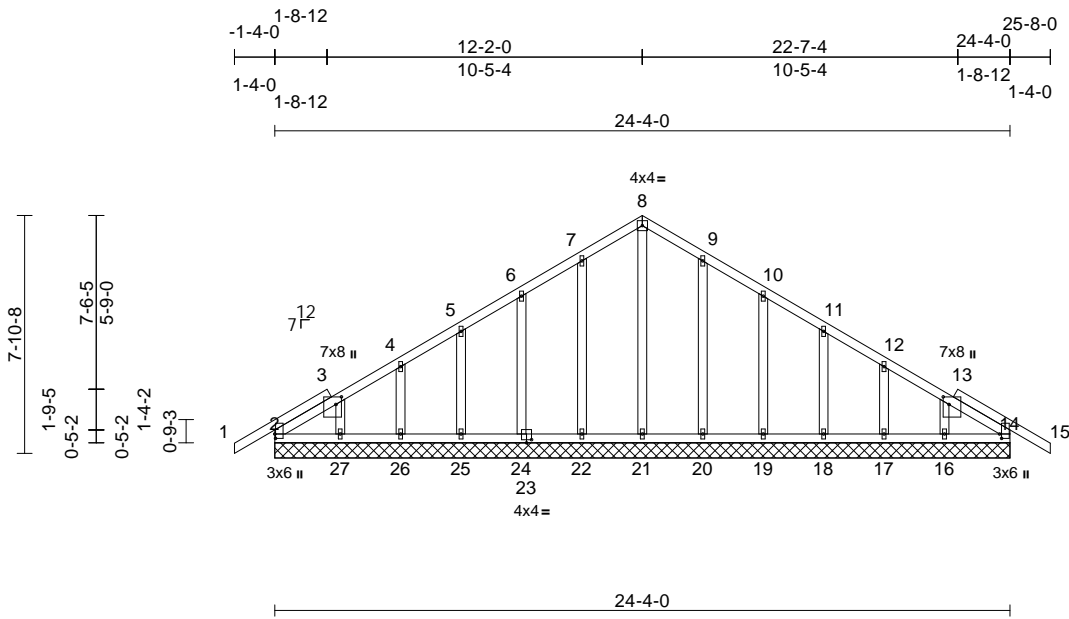
December 10,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	The Bundy Residence
241107-01JG	GE01	Common Supported Gable	2	1	T35771446
					Job Reference (optional)



Scale = 1:64.9

Plate Offsets (X, Y): [2:0-1-12,0-0-5], [3:0-3-0,0-2-4], [13:0-3-0,0-2-4], [14:0-1-12,0-0-13], [23:0-2-0,0-1-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.12	Vert(LL)	n/a	-	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	14	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							
										Weight: 151 lb	FT = 20%

LUMBER		BOT CHORD	2-27=70/144, 26-27=74/158, 25-26=74/158, 24-25=74/158, 22-24=74/158, 21-22=74/158, 20-21=74/158, 19-20=74/158, 18-19=74/158, 17-18=74/158, 16-17=74/158, 14-16=57/144
BRACING		WEBS	8-21=157/42, 7-22=140/114, 6-24=129/121, 5-25=129/116, 4-26=132/120, 3-27=135/109, 9-20=138/114, 10-19=130/121, 11-18=129/116, 12-17=136/120, 13-16=135/109
REACTIONS (size)		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=5.0psf; BCDL=5.0psf; h=30ft; B=60ft; L=50ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33 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 1.5x4 () MT20 unless otherwise indicated. 6) Gable requires continuous bottom chord bearing. 7) Gable studs spaced at 2-0-0 oc. 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
FORCES (lb) - Maximum Compression/Maximum Tension		LOAD CASE(S) Standard	
TOP CHORD		9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 10) All bearings are assumed to be SP No.2 . 11) Solid blocking is required on both sides of the truss at joint(s), 2. 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 2, 62 lb uplift at joint 14, 66 lb uplift at joint 22, 73 lb uplift at joint 24, 68 lb uplift at joint 25, 73 lb uplift at joint 26, 57 lb uplift at joint 27, 66 lb uplift at joint 20, 73 lb uplift at joint 19, 68 lb uplift at joint 18, 73 lb uplift at joint 17 and 57 lb uplift at joint 16.	
		Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:	

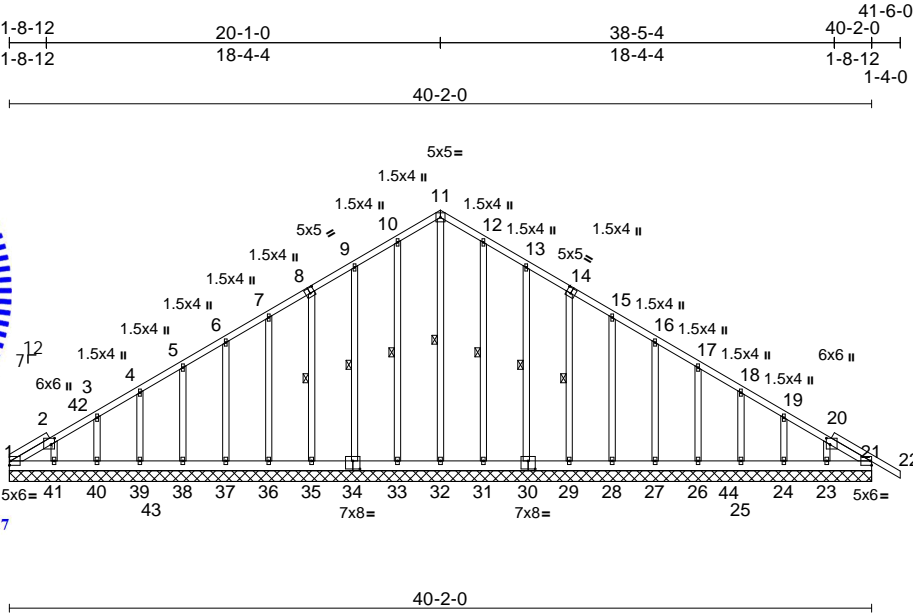
Job	Truss	Truss Type	Qty	Ply	The Bundy Residence
241107-01JG	GE02	Common Supported Gable	1	1	T35771447
					Job Reference (optional)

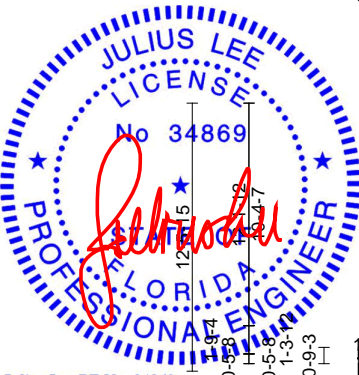
Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

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Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

Scale = 1:94.5

Plate Offsets (X, Y): [2:0-3-8,0-2-0], [8:0-2-8,0-3-0], [14:0-2-8,0-3-0], [20:0-3-8,0-2-0], [30:0-4-0,0-4-8], [34:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	21	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							
Weight: 338 lb FT = 20%											

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
OTHERS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins.
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.
WEBS 1 Row at midpt 11-32, 10-33, 9-34, 8-35, 12-31, 13-30, 14-29

REACTIONS (size)
1=40-2-0, 21=40-2-0, 23=40-2-0, 24=40-2-0, 25=40-2-0, 26=40-2-0, 27=40-2-0, 28=40-2-0, 29=40-2-0, 30=40-2-0, 31=40-2-0, 32=40-2-0, 33=40-2-0, 34=40-2-0, 35=40-2-0, 36=40-2-0, 37=40-2-0, 38=40-2-0, 39=40-2-0, 40=40-2-0, 41=40-2-0
Max Horiz 1=356 (LC 8)
Max Uplift 1=100 (LC 8), 21=19 (LC 27), 23=72 (LC 10), 24=62 (LC 28), 25=69 (LC 28), 26=70 (LC 10), 27=71 (LC 10), 28=64 (LC 28), 29=69 (LC 10), 30=81 (LC 28), 31=55 (LC 10), 33=55 (LC 10), 34=81 (LC 10), 35=69 (LC 28), 36=65 (LC 10), 37=72 (LC 28), 38=74 (LC 10), 39=88 (LC 28), 40=293 (LC 10), 41=188 (LC 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-282/267, 2-3=-282/266, 3-4=-222/206, 4-5=-196/189, 5-6=-178/168, 6-7=-159/147, 7-9=-140/228, 9-10=-184/305, 10-11=-220/366, 11-12=-220/366, 12-13=-184/305, 13-15=-140/228, 15-16=-67/96, 16-17=-81/61, 17-18=-96/82, 18-19=-122/102, 19-20=-180/117, 20-21=-259/163, 21-22=0/24
BOT CHORD 1-41=-141/284, 40-41=-141/284, 39-40=-141/284, 38-39=-141/284, 37-38=-141/284, 36-37=-141/284, 35-36=-141/284, 33-35=-143/286, 32-33=-142/285, 31-32=-142/285, 29-31=-143/286, 28-29=-141/284, 27-28=-141/284, 26-27=-141/284, 25-26=-141/284, 24-25=-141/284, 23-24=-141/284, 21-23=-141/284

WEBS
11-32=-267/108, 10-33=-139/100, 9-34=-136/131, 8-35=-131/116, 7-36=-124/110, 6-37=-131/119, 5-38=-135/121, 4-39=-114/135, 3-40=-431/320, 2-41=-252/238, 12-31=-134/100, 13-30=-138/131, 14-29=-130/116, 15-28=-123/110, 16-27=-132/118, 17-26=-131/117, 18-25=-130/117, 19-24=-126/104, 20-23=-143/133

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; B=60ft; L=50ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

December 10,2024

Job	Truss	Truss Type	Qty	Ply	The Bundy Residence
241107-01JG	GE02	Common Supported Gable	1	1	T35771447
					Job Reference (optional)

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 (||) MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) All bearings are assumed to be SP No.2 .
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 1, 55 lb uplift at joint 33, 81 lb uplift at joint 34, 69 lb uplift at joint 35, 65 lb uplift at joint 36, 72 lb uplift at joint 37, 74 lb uplift at joint 38, 88 lb uplift at joint 39, 293 lb uplift at joint 40, 188 lb uplift at joint 41, 55 lb uplift at joint 31, 81 lb uplift at joint 30, 69 lb uplift at joint 29, 64 lb uplift at joint 28, 71 lb uplift at joint 27, 70 lb uplift at joint 26, 69 lb uplift at joint 25, 62 lb uplift at joint 24, 72 lb uplift at joint 23 and 19 lb uplift at joint 21.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 452 lb down and 344 lb up at 3-7-9 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25,
Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-11=-60, 11-22=-60, 1-21=-20
Concentrated Loads (lb)
Vert: 42=-372

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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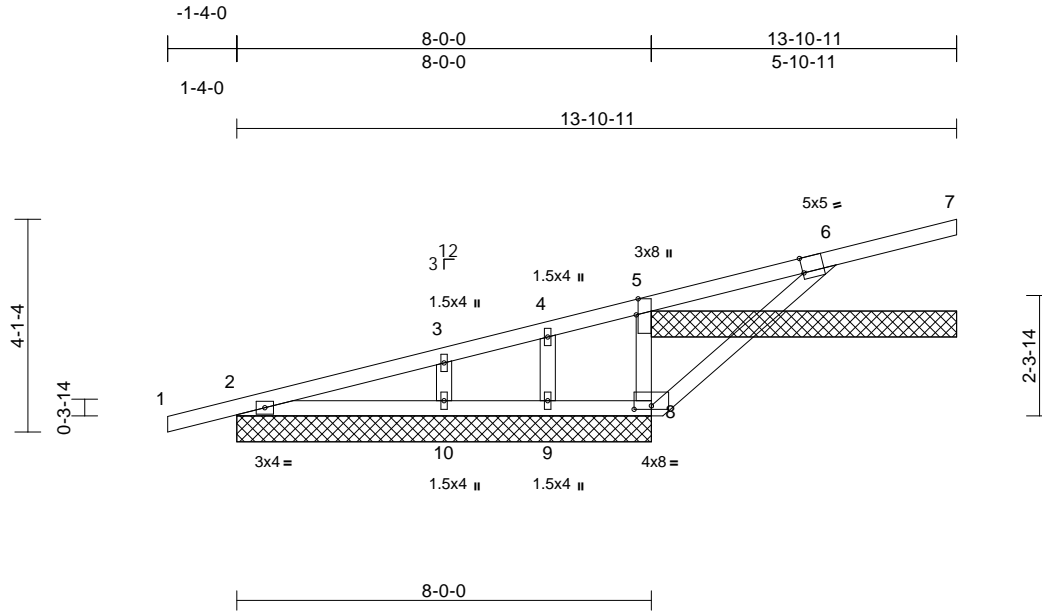
Job	Truss	Truss Type	Qty	Ply	The Bundy Residence
241107-01JG	GE03	Jack-Open Supported Gable	2	1	T35771448
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.83 S Nov 8 2024 Print: 8.830 S Nov 8 2024 MiTek Industries, Inc. Tue Dec 10 05:09:55

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Scale = 1:38.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	-0.01	2-10	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	-0.02	2-10	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	7	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-P							
										Weight: 48 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 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)	2=8-0-0, 5=5-10-11, 6=5-10-11, 7=5-10-11, 8=8-0-0, 9=8-0-0, 10=8-0-0
Max Horiz	2=162 (LC 10)	
Max Uplift	2=98 (LC 10), 5=99 (LC 10), 6=138 (LC 10), 7=26 (LC 10), 9=18 (LC 10), 10=74 (LC 10)	
Max Grav	2=228 (LC 1), 5=196 (LC 1), 6=208 (LC 1), 7=46 (LC 1), 8=37 (LC 3), 9=73 (LC 1), 10=304 (LC 1)	

FORCES	(lb) - Maximum Compression/Maximum Tension
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TOP CHORD	1-2=0/18, 2-3=-301/84, 3-4=-170/36, 4-5=-137/39, 5-6=-28/27, 6-7=-31/9, 5-8=-7/30
BOT CHORD	2-10=-125/30, 9-10=-125/30, 8-9=-126/31
WEBS	3-10=-228/494, 4-9=-45/111, 6-8=-162/39

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; B=60ft; L=50ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 7 and 138 lb uplift at joint 6.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5, 10, and 9. This connection is for uplift only and does not consider lateral forces.
- H16 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7, 5, 6.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- H16 Hurricane tie must wrap around the underside of the wall plates. For trusses between 3:12 and 7:12 slope.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 10,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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MiTek®

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

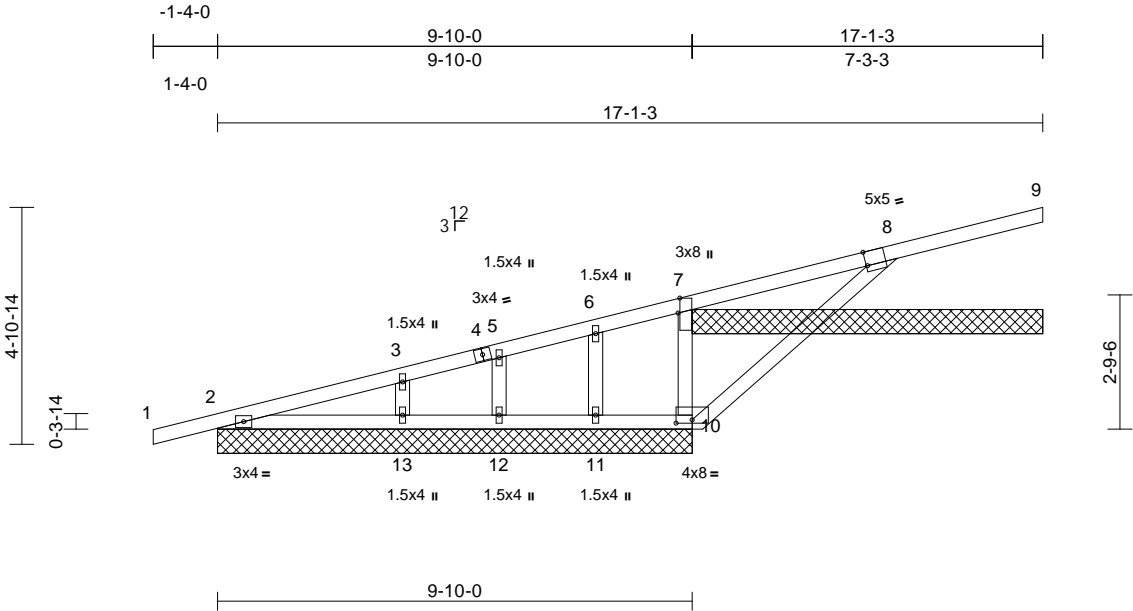
Job	Truss	Truss Type	Qty	Ply	The Bundy Residence
241107-01JG	GE04	Jack-Partial Supported Gable	1	1	T35771449
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

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Scale = 1:41.7

Plate Offsets (X, Y): [7:0-3-11,Edge], [8:0-0-4,Edge], [10:0-4-0,0-0-13]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.01	2-13	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.01	2-13	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	8	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							
										Weight: 60 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP DSS *Except* 1-4:2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.2

OTHERS 2x4 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) 2=9-10-0, 7=7-3-3, 8=7-3-3, 10=9-10-0, 11=9-10-0, 12=9-10-0, 13=9-10-0

Max Horiz 2=212 (LC 10)

Max Uplift 2=-89 (LC 10), 7=-68 (LC 6), 8=-347 (LC 10), 11=-74 (LC 10), 12=-38 (LC 6), 13=-66 (LC 10)

Max Grav 2=224 (LC 1), 7=112 (LC 1), 8=380 (LC 1), 10=43 (LC 10), 11=181 (LC 1), 12=107 (LC 1), 13=284 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/18, 2-3=-360/76, 3-5=-254/39, 5-6=-206/29, 6-7=-128/25, 7-8=-100/47, 8-9=-45/0, 7-10=-6/23

BOT CHORD 2-13=-149/14, 12-13=-149/14, 11-12=-149/14, 10-11=-150/15

WEBS 6-11=-132/303, 5-12=-85/176, 3-13=-205/396, 8-10=-181/27

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=5.0psf; BCDL=5.0psf; h=30ft; B=60ft; L=50ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

5) Gable studs spaced at 2-0-0 oc.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.

8) All bearings are assumed to be SP No.2 .

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 347 lb uplift at joint 8.

10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7, 11, 12, and 13. This connection is for uplift only and does not consider lateral forces.

11) H16 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

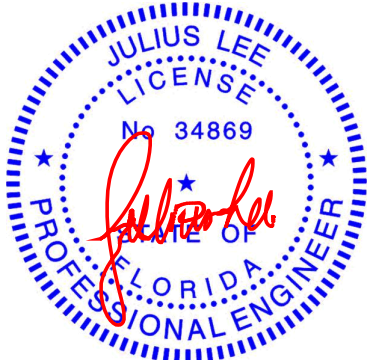
12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7, 8.

13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

14) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

15) H16 Hurricane tie must wrap around the underside of the wall plates. For trusses between 3:12 and 7:12 slope.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 10,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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MiTek®

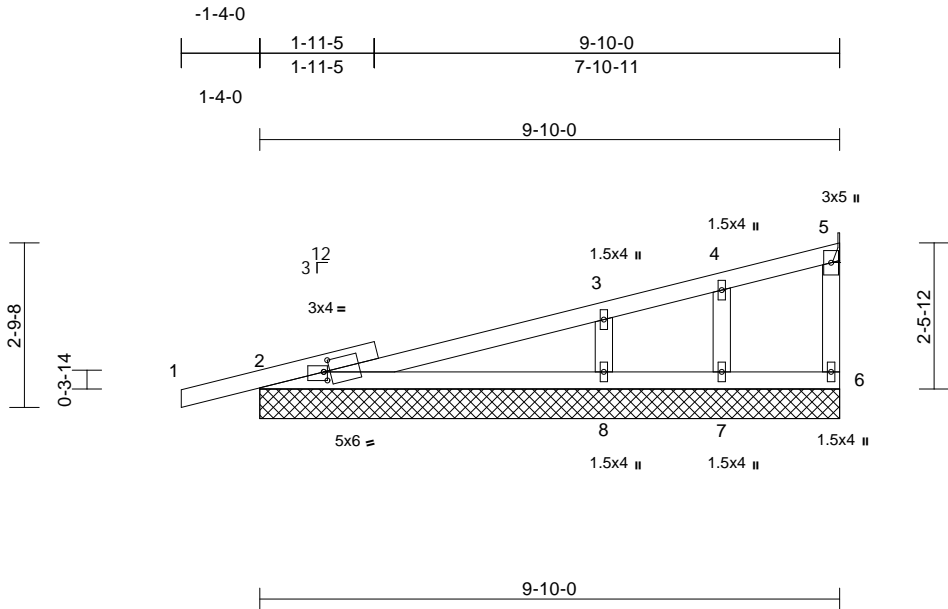
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	The Bundy Residence
241107-01JG	GE05	Jack-Partial Supported Gable	1	1	T35771450
					Job Reference (optional)

Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

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Scale = 1:33.5											
Plate Offsets (X, Y): [2:0-1-4,0-2-2], [2:0-0-12,0-1-12]											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.03	2-8	>999	240	GRIP
TCDL	10.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.07	2-8	>999	180	MT20
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	5	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 39 lb FT = 20%

- LUMBER**
- TOP CHORD 2x4 SP No.2
- BOT CHORD 2x4 SP No.2
- WEBS 2x4 SP No.2
- OTHERS 2x4 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) 2=9-10-0, 5= Mechanical, 6=9-10-0, 7=9-10-0, 8=9-10-0
- Max Horiz 2=110 (LC 9)
- Max Uplift 2=-125 (LC 10), 5=-31 (LC 10), 7=-13 (LC 3), 8=-121 (LC 10)
- Max Grav 2=282 (LC 1), 5=68 (LC 1), 6=49 (LC 3), 7=-1 (LC 7), 8=485 (LC 1)
- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=0/18, 2-3=-119/113, 3-4=-71/57, 4-5=-49/64, 5-6=0/0
- BOT CHORD 2-8=-38/64, 7-8=-38/64, 6-7=-38/64
- WEBS 4-7=-8/34, 3-8=-344/649
- NOTES**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; B=60ft; L=50ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 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 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- 7) Bearings are assumed to be: , Joint 8 SP No.2 .
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 5.
- 10) H16 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 8. This connection is for uplift only and does not consider lateral forces.
- 12) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 13) H16 Hurricane tie must wrap around the underside of the wall plates. For trusses between 3:12 and 7:12 slope.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

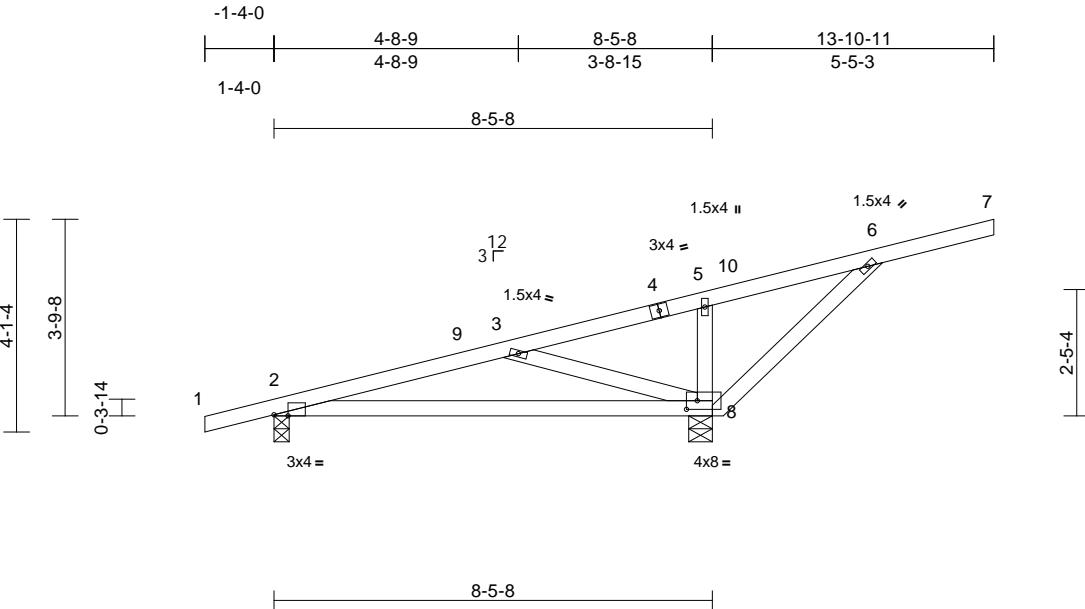
December 10,2024

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

Job	Truss	Truss Type	Qty	Ply	The Bundy Residence
241107-01JG	M01	Monopitch	16	1	T35771451
					Job Reference (optional)



Scale = 1:38.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.25	2-8	>398	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.50	2-8	>199	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-P							Weight: 51 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP DSS *Except* 4-1:2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 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.

REACTIONS (size) 2=0-3-8, 8=0-5-8
Max Horiz 2=174 (LC 10)
Max Uplift 2=-86 (LC 6), 8=-410 (LC 10)
Max Grav 2=323 (LC 1), 8=757 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-0/18, 2-3=-603/0, 3-5=-1270/403, 5-6=-1226/420, 6-7=-32/0, 5-8=-208/195
BOT CHORD 2-8=-73/336
WEBS 6-8=-518/1388, 3-8=-487/791

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; B=60ft; L=50ft; eave=6ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-4-0 to 3-8-0, Zone1 3-8-0 to 8-10-11, Zone3 8-10-11 to 13-10-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

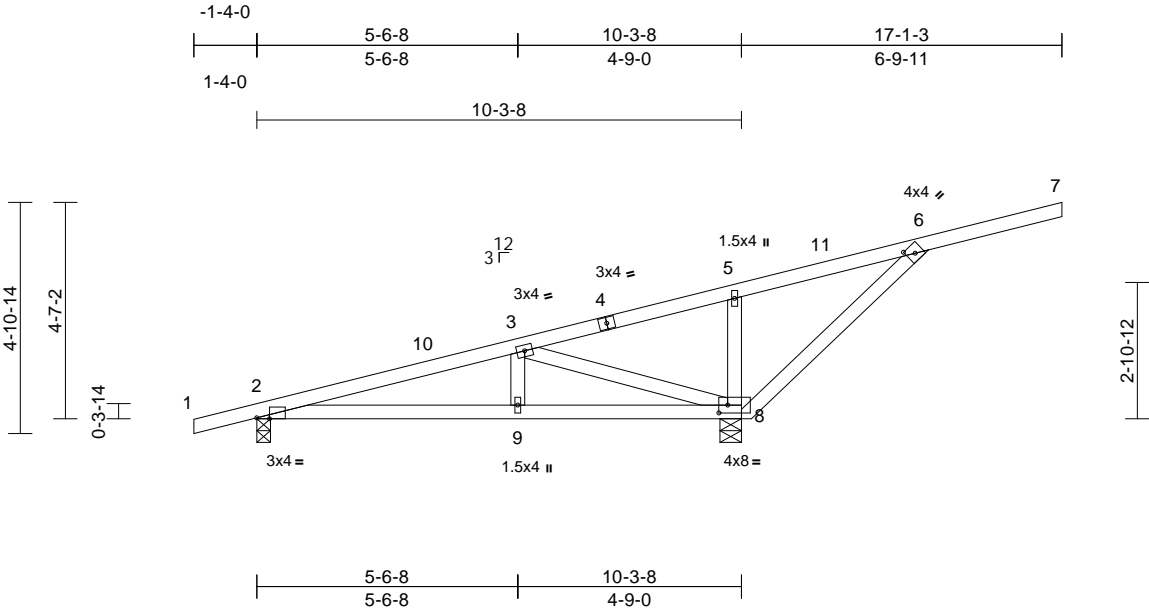
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.1 .
 - H10A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 2. This connection is for uplift only and does not consider lateral forces.
 - 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



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 10,2024

Job	Truss	Truss Type	Qty	Ply	The Bundy Residence
241107-01JG	M02	Monopitch	30	1	T35771452
					Job Reference (optional)



Scale = 1:42.9												
Plate Offsets (X, Y): [2:0-3-4,Edge], [6:0-2-0,0-2-4], [8:0-2-4,0-2-0]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	-0.03	2-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.07	2-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 63 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP DSS *Except* 1-4:2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

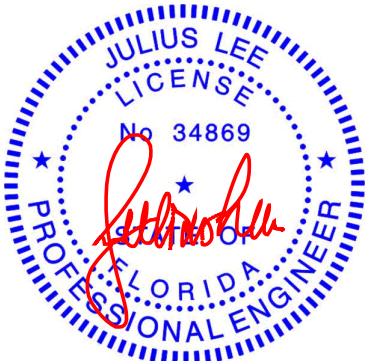
BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 8=0-5-8
Max Horiz 2=211 (LC 10)
Max Uplift 2=-84 (LC 6), 8=-520 (LC 10)
Max Grav 2=364 (LC 1), 8=945 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/18, 2-3=-873/0, 3-5=-1461/523, 5-6=-1449/564, 6-7=-42/0, 5-8=-234/107
BOT CHORD 2-9=0/607, 8-9=0/608
WEBS 3-9=0/240, 3-8=-830/722, 6-8=-693/1638

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; B=60ft; L=50ft; eave=6ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-4-0 to 3-8-0, Zone1 3-8-0 to 12-1-3, Zone3 12-1-3 to 17-1-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2 .
 - H10A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 2. This connection is for uplift only and does not consider lateral forces.
 - 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



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

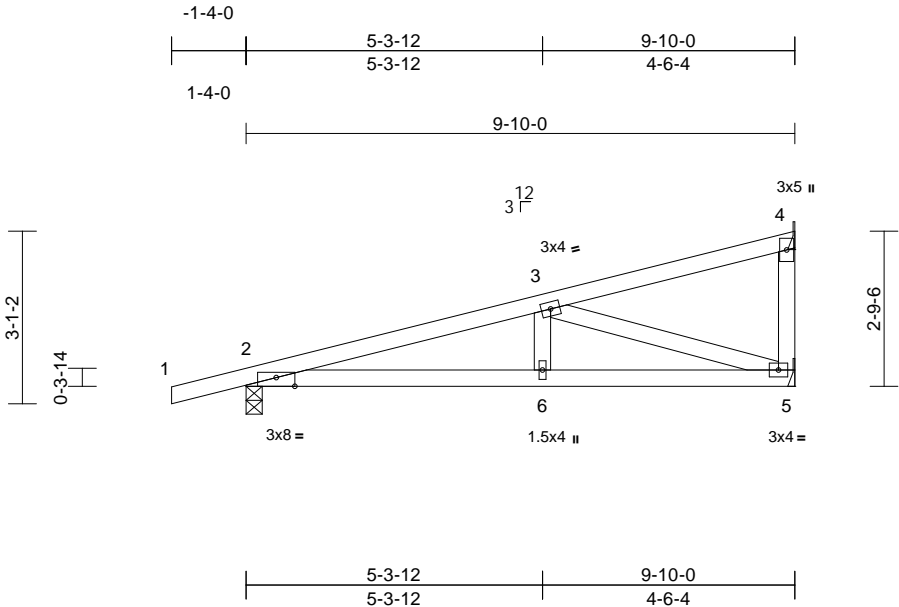
December 10,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job	Truss	Truss Type	Qty	Ply	The Bundy Residence
241107-01JG	M03	Jack-Partial	4	1	T35771453
					Job Reference (optional)

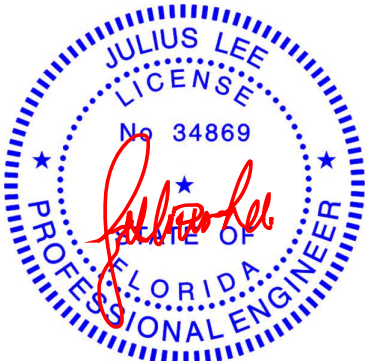


Scale = 1:35.7											
Plate Offsets (X, Y): [2:0-4-0,Edge]											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	0.04	2-6	>999	240	GRIP
TCDL	10.0	Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.06	2-6	>999	180	MT20
BCLL	0.0*	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.01	5	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 43 lb
											FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-6-9 oc bracing.
REACTIONS (size)	
	2=0-3-8, 4= Mechanical, 5= Mechanical
Max Horiz	2=119 (LC 10)
Max Uplift	2=-171 (LC 10), 4=-57 (LC 10), 5=-49 (LC 10)
Max Grav	2=477 (LC 1), 4=102 (LC 1), 5=273 (LC 1)
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/18, 2-3=-830/649, 3-4=-50/18
BOT CHORD	2-6=-800/767, 5-6=-800/767
WEBS	3-5=-803/838, 4-5=0/0, 3-6=0/224

- NOTES**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft;
B=60ft; L=50ft; eave=6ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 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 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
 - 5) Bearings are assumed to be: , Joint 2 SP No.2 .
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 4 and 49 lb uplift at joint 5.
 - 8) H10A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - 9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- LOAD CASE(S)** Standard



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Date:

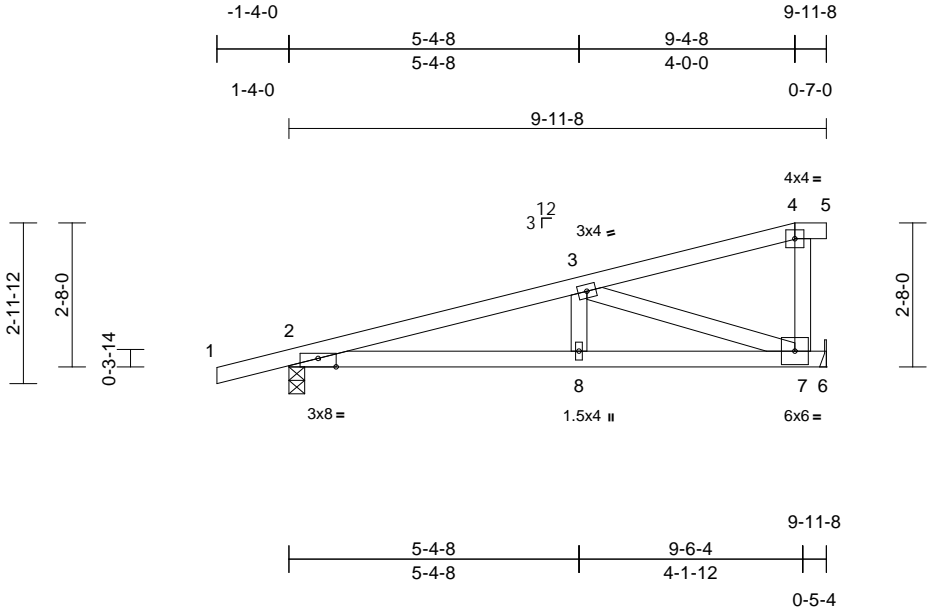
December 10,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job	Truss	Truss Type	Qty	Ply	The Bundy Residence
241107-01JG	M04	Half Hip	1	1	T35771454
					Job Reference (optional)



Scale = 1:37.1

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	0.06	7-8	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.08	7-8	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.01	6	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							
										Weight: 43 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 5-10-10 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 5-10-1 oc bracing.
REACTIONS	
(size)	2=0-3-8, 6= Mechanical
Max Horiz	2=116 (LC 10)
Max Uplift	2=-175 (LC 10), 6=-138 (LC 10)
Max Grav	2=485 (LC 1), 6=387 (LC 1)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/18, 2-3=-868/693, 3-4=-44/11, 4-5=0/0
BOT CHORD	2-8=-833/803, 7-8=-833/803, 6-7=0/0
WEBS	3-8=0/258, 3-7=-837/863, 4-7=-127/218

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; B=60ft; L=50ft; eave=6ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
 - Bearings are assumed to be: Joint 2 SP No.2 .
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 6.
 - H10A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- LOAD CASE(S)** Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 10,2024

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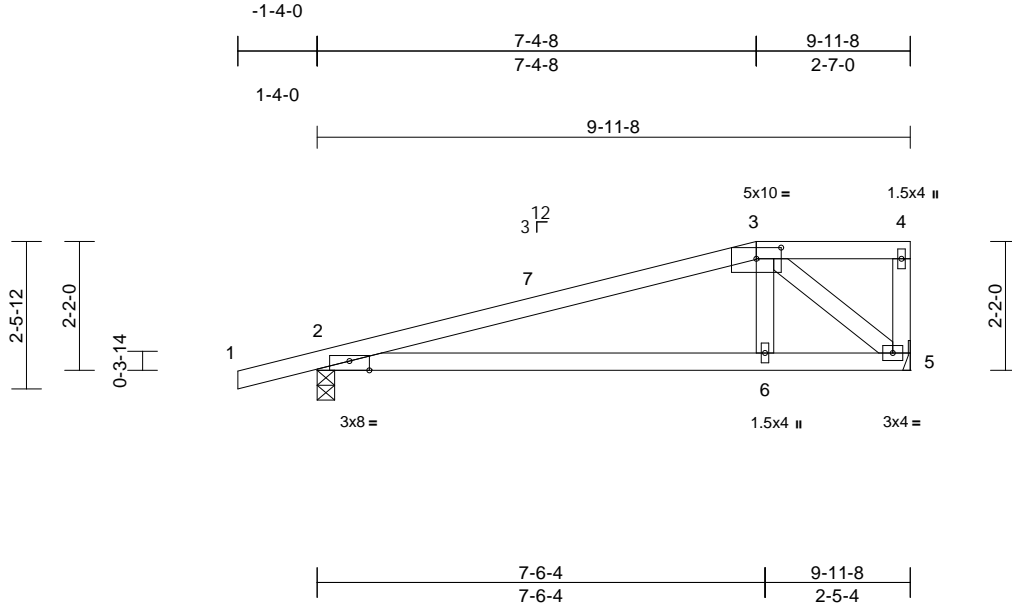
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	The Bundy Residence
241107-01JG	M05	Half Hip	1	1	Job Reference (optional)
					T35771455

Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.83 S Nov 8 2024 Print: 8.830 S Nov 8 2024 MiTek Industries, Inc. Tue Dec 10 05:09:56
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Page: 1



Scale = 1:33.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.93	Vert(LL)	-0.08	2-6	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.19	2-6	>620	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	5	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							
										Weight: 41 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 2=0-3-8, 5= Mechanical
Max Horiz 2=97 (LC 7)
Max Uplift 2=-184 (LC 10), 5=-96 (LC 10)
Max Grav 2=482 (LC 1), 5=380 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/18, 2-3=-569/442, 3-4=-31/48, 4-5=-22/27

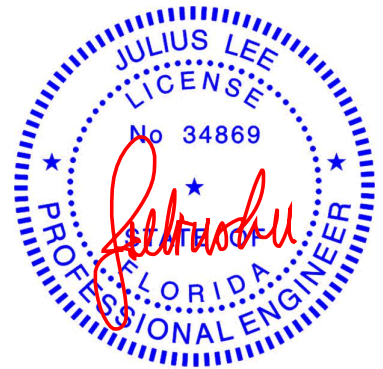
BOT CHORD 2-6=-400/504, 5-6=-398/518
WEBS 3-6=0/307, 3-5=-657/571

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft;
B=60ft; L=50ft; eave=6ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Zone3 -1-4-0 to 3-8-0,
Zone2 3-8-0 to 7-4-8, Zone3 7-4-8 to 9-9-12 zone;
cantilever left and right exposed ; end vertical left and
right exposed;C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.33 plate grip
DOL=1.33
- 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
3-06-00 tall by 1-00-00 wide will fit between the bottom
chord and any other members.
- 6) Bearings are assumed to be: Joint 2 SP No.2 .
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 96 lb uplift at joint
5.
- 9) H10A Simpson Strong-Tie connectors recommended to
connect truss to bearing walls due to UPLIFT at jt(s) 2.
This connection is for uplift only and does not consider
lateral forces.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 10,2024

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Job	Truss	Truss Type	Qty	Ply	The Bundy Residence
241107-01JG	T01	Common	12	1	Job Reference (optional)

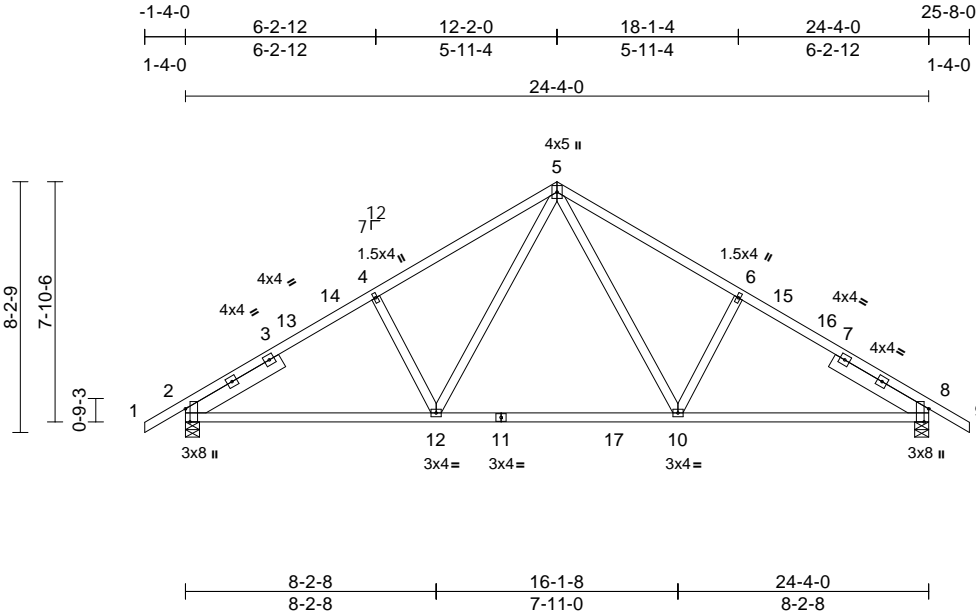
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Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

Run: 8.83 S Nov 8 2024 Print: 8.830 S Nov 8 2024 MiTek Industries, Inc. Tue Dec 10 05:09:56

Page: 1

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Scale = 1:68.1

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	-0.18	10-12	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.25	10-12	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.04	8	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							
Weight: 137 lb FT = 20%											

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -- 3-7-4, Right 2x6 SP No.2 -- 3-7-4

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-3-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-5-8, 8=0-5-8
Max Horiz 2=-233 (LC 8)
Max Uplift 2=-324 (LC 10), 8=-324 (LC 10)
Max Grav 2=1053 (LC 1), 8=1053 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/19, 2-4=-1414/554, 4-5=-1251/602, 5-6=-1251/602, 6-8=-1414/554, 8-9=0/19
BOT CHORD 2-12=-320/1253, 10-12=-92/849, 8-10=-320/1122
WEBS 5-10=-203/573, 6-10=-308/296, 5-12=-203/572, 4-12=-308/296

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft; B=60ft; L=50ft; eave=6ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Zone3 -1-4-0 to 3-8-0, Zone1 3-8-0 to 5-1-2, Zone2 5-1-2 to 19-2-14, Zone1 19-2-14 to 20-8-0, Zone3 20-8-0 to 25-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

- 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 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) All bearings are assumed to be SP No.2 .
- 7) H10A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 10,2024

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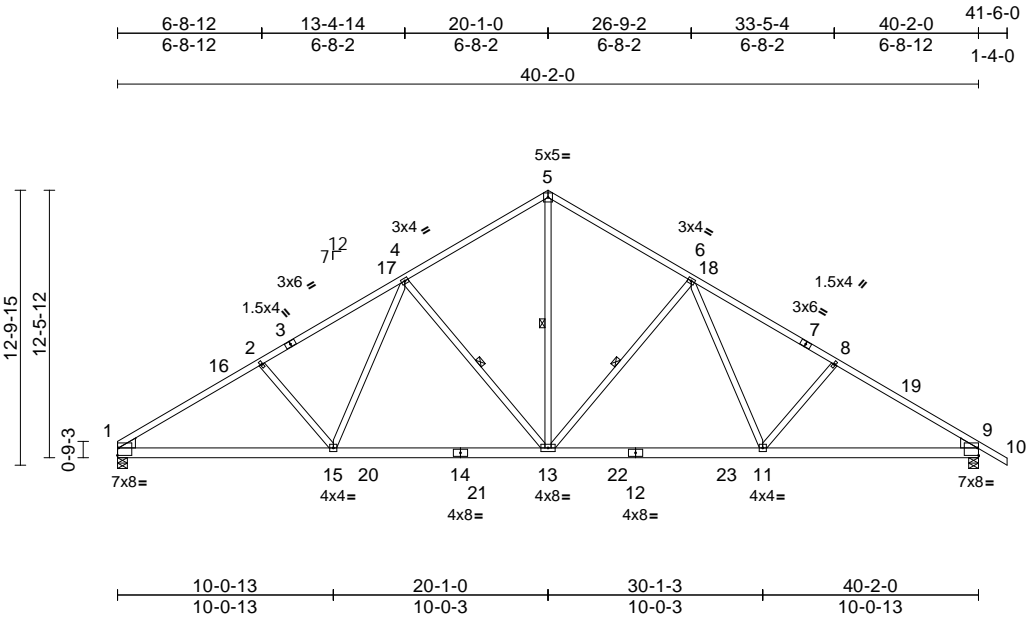
Job	Truss	Truss Type	Qty	Ply	The Bundy Residence
241107-01JG	T02	Common	20	1	Job Reference (optional)

T35771457

Coastal Truss & Vinyl Siding, Patterson, GA - 31577,

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Page: 1



Scale = 1:98.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.82	Vert(LL)	-0.17	13-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.31	11-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.08	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 258 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.2
WEDGE	Left: 2x6 SP No.2 Right: 2x6 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 9-5-7 oc bracing.
WEBS	1 Row at midpt 4-13, 5-13, 6-13

REACTIONS

(size)	1=0-5-8, 9=0-5-8
Max Horiz	1=-366 (LC 8)
Max Uplift	1=-413 (LC 10), 9=-499 (LC 10)
Max Grav	1=1618 (LC 15), 9=1708 (LC 16)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-2583/881, 2-4=-2375/884, 4-5=-1688/769, 5-6=-1690/769, 6-8=-2365/863, 8-9=-2571/857, 9-10=0/24
BOT CHORD	1-15=-599/2344, 13-15=-394/1974, 11-13=-388/1790, 9-11=-565/2051
WEBS	4-15=-111/552, 2-15=-257/260, 4-13=-749/393, 5-13=-504/1292, 6-13=-746/384, 6-11=-86/542, 8-11=-243/231

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=5.0psf; BCDL=5.0psf; h=30ft;
B=60ft; L=50ft; eave=6ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Zone3 0-2-12 to 5-2-12,
Zone1 5-2-12 to 13-0-2, Zone2 13-0-2 to 27-1-14, Zone1
27-1-14 to 36-6-0, Zone3 36-6-0 to 41-6-0 zone;
cantilever left and right exposed ; end vertical left and
right exposed;C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.33 plate grip
DOL=1.33
- 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
3-06-00 tall by 1-00-00 wide will fit between the bottom
chord and any other members, with BCDL = 10.0psf.
- 6) All bearings are assumed to be SP No.2 .
- 7) H10A Simpson Strong-Tie connectors recommended to
connect truss to bearing walls due to UPLIFT at jt(s) 1
and 9. This connection is for uplift only and does not
consider lateral forces.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

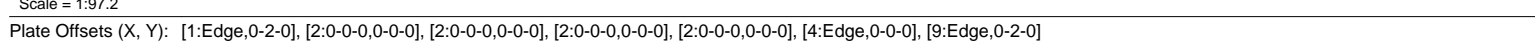
December 10,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)


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LUMBER		3) Building Designer / Project engineer responsible for
TOP CHORD	2x4 SP No.1 *Except* 1-3,7-9:2x4 SP No.2	verifying applied roof live load shown covers rain loading
BOT CHORD	2x6 SP No.2	requirements specific to the use of this truss component.
WEBS	2x4 SP No.2	4) This truss has been designed for a 10.0 psf bottom
SLIDER	Left 2x4 SP No.2 -- 8-0-15, Right 2x4 SP	chord live load nonconcurrent with any other live loads.
	No.2 -- 8-0-15	5) * This truss has been designed for a live load of 20.0psf
BRACING		on the bottom chord in all areas where a rectangle
TOP CHORD	Structural wood sheathing directly applied or	3-06-00 tall by 1-00-00 wide will fit between the bottom
	2-2-0 oc purlins.	chord and any other members.
BOT CHORD	Rigid ceiling directly applied or 6-10-1 oc	6) All bearings are assumed to be SP No.2 .
	bracing.	7) Bearing at joint(s) 1, 9 considers parallel to grain value
REACTIONS	(size) 1=0-5-8, 9=0-5-8	using ANSI/TPI 1 angle to grain formula. Building
	Max Horiz 1=--360 (LC 8)	designer should verify capacity of bearing surface.
	Max Uplift 1=--417 (LC 10), 9=--417 (LC 10)	8) H10A Simpson Strong-Tie connectors recommended to
	Max Grav 1=1596 (LC 1), 9=1596 (LC 1)	connect truss to bearing walls due to UPLIFT at jt(s) 1
FORCES	(lb) - Maximum Compression/Maximum	and 9. This connection is for uplift only and does not
		consider lateral forces.


	Tension	LOAD CASE(S)	Standard
TOP CHORD	1-2=-4387/1443, 2-4=-4109/1319, 4-5=-3048/972, 5-6=-3048/972, 6-8=-4108/1319, 8-9=-4386/1443		
BOT CHORD	1-14=-1140/3883, 12-14=-832/3423, 10-12=-832/3396, 9-10=-1140/3776		
WEBS	5-12=-714/2604, 6-12=-838/477, 6-10=-91/573, 8-10=-214/272, 4-12=-826/478, 4-14=-91/573, 2-14=-194/272		



- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=30ft;
B=60ft; L=50ft; eave=6ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Zone3 0-1-9 to 5-1-9,
Zone1 5-1-9 to 13-0-2, Zone2 13-0-2 to 27-1-14, Zone1
27-1-14 to 35-0-7, Zone3 35-0-7 to 40-0-7 zone;
cantilever left and right exposed ; end vertical left
and right exposed;C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.33 plate grip
DOL=1.33

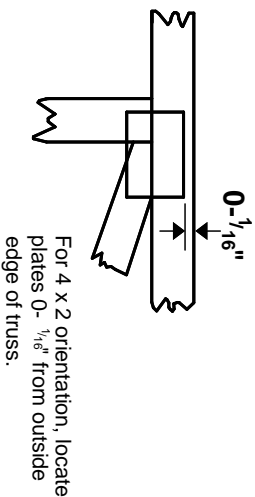


December 10, 2024

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**
 Design valid for use only with MiTek® connectors. This design is based only upon design parameters shown, and is for an individual building component, not a truss system. Best practice is to consult with a professional engineer for the applicability of design parameters and verify the applicability of design parameters to the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcsccomponents.com)

Symbols

PLATE LOCATION AND ORIENTATION



* 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

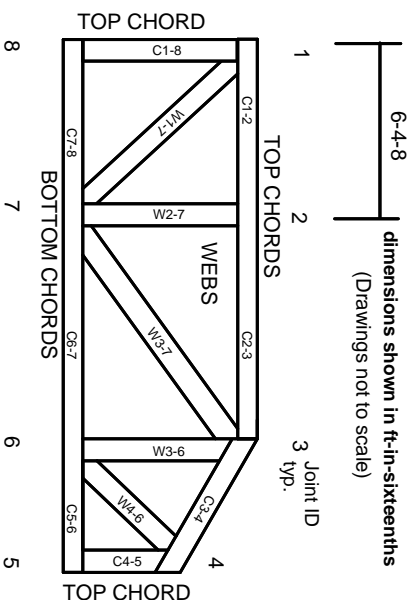


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: 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/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.