

MiTek

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

RE: 4296478 - HUBLER RES.

Site Information:

Customer Info: GIEBEIG HOMES Project Name: Hubler Res. Model: Custom

Lot/Block: N/A Subdivision: N/A

Address: 1608 SW Tommy Lites Street, N/A

City: Columbia Cty State: FL

16023 Swingley Ridge Rd.

Chesterfield, MO 63017

314.434.1200

MiTek, Inc.

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

Name:

Address:

City:

State:

License #:

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

Design Code: FBC2023/TPI2014

Wind Code: ASCE 7-22

Roof Load: 37.0 psf

Design Program: MiTek 20/20 8.7

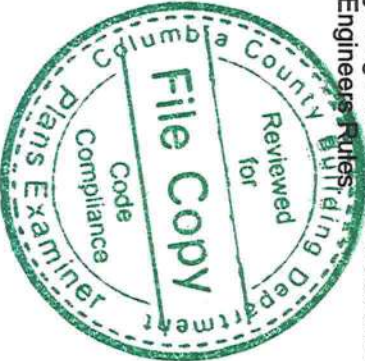
Wind Speed: 130 mph

Floor Load: N/A psf

This package includes 14 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	T35583152	T01	11/18/24
2	T35583153	T01G	11/18/24
3	T35583154	T02	11/18/24
4	T35583155	T02G	11/18/24
5	T35583156	T03	11/18/24
6	T35583157	T03G	11/18/24
7	T35583158	T04G	11/18/24
8	T35583159	T05G	11/18/24
9	T35583160	V01	11/18/24
10	T35583161	V02	11/18/24
11	T35583162	V03	11/18/24
12	T35583163	V04	11/18/24
13	T35583164	V05	11/18/24
14	T35583165	V06	11/18/24



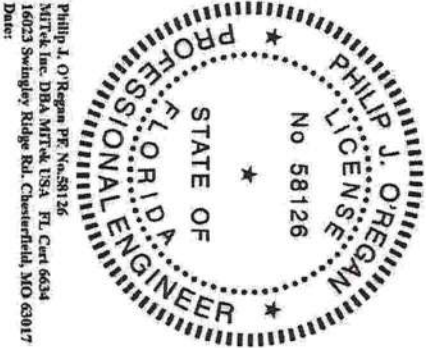
This item has been digitally signed and sealed by ORegan, Philip, PE on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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:

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8 730 s Oct 31 2024 MITek Industries, Inc. Mon Nov 18 07:12:03 2024 Page 1
ID:40ACRUFp4_P2wMBZAPb-GESeqmTtPqDSOLSRKXNDKdMTX_LDWtHYlQ
-2:00 7:50 12:12 17:26 22:10 27:00 34:50 42:40 44:00
2:00 7:50 4:4-12 5:0-10 4:10-10 4:11:0 7:6:0 7:6:0 2:00



REACTIONS. (size) 2=0-3-8, 17=0-3-8, 11=0-3-8

FORCES. (lb) - Max Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=231/445, 3-4=383/761, 4-5=338/765, 5-6=1213/461, 6-7=1054/545.

NOTES-
1) Unbalanced roof live loads have been considered for this design.

document are not considered signed and sealed and the signature must be verified on any electronic copies.

November 18, 2024

MiTek
16023 Swingle Ridge Rd.
Chesdenfield, MO 63017
314.434.1200 / MITek-US.com

Job	Truss	Truss Type	Qty	Ply	HUBLER RES.	T35683153
4296478	T01G	GABLE	2	1		

Builders FirstSource (Lake City, FL) Lake City, FL - 32055.

ID: y4QiaC87Uf-p4_P2xWZ8BjzAPb-KQ7CzyUd7TLr6wZmwpazq4G3EMV6AHnC7zu7jy0JP 8,730 s Oct 31 2024 MITek Industries, Inc. Mon Nov 18 07:12:04 2024 Page 2

NOTES-

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28, 36, 41, 42, 44, 45, 46, 47 except (if=lb) 2=220, 37=107, 38=120, 39=115, 40=111, 48=132, 34=103, 33=122, 32=14, 31=115, 30=117, 29=159.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

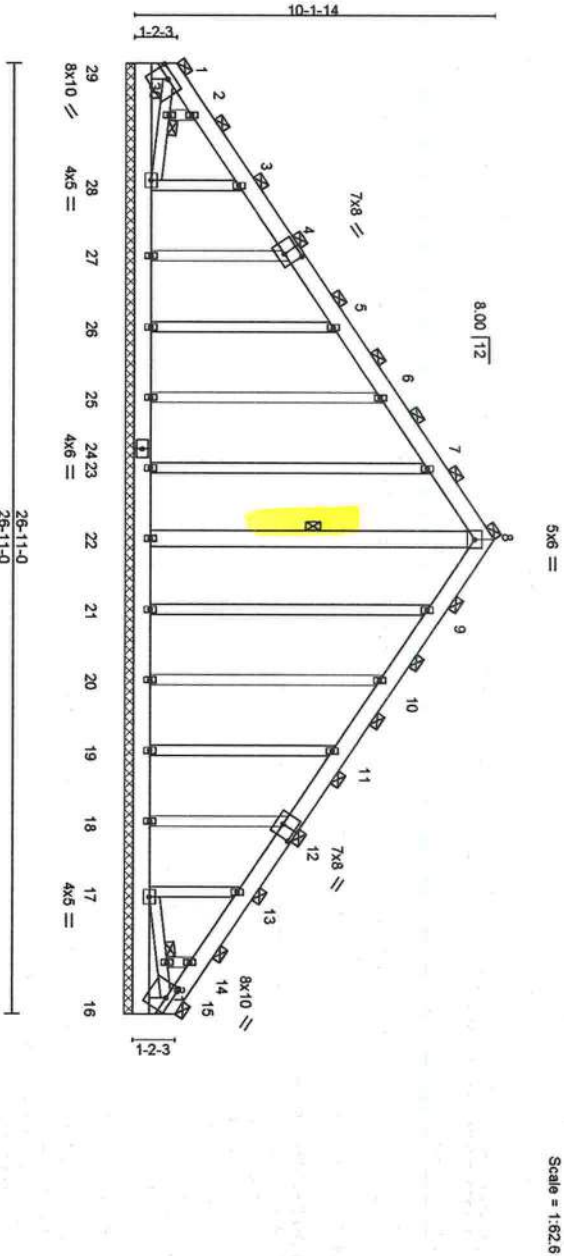
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 11/2023 BEFORE USE.

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 design of the building system. This design is not intended to be used for the design of individual truss web and/or chord members only. Additional temporary and permanent bracing is shown required for stability and to protect buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabrication, storage, delivery, erection and bracing of trusses and truss systems, see AISI/TPI Quality Criteria and Q38-22 available from Truss Plate Institute (www.tpiinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcascomponents.com).

MITek

16023 Swangley Ridge Rd.
Chesapeake, MO 63017
314.434.1200 / MITek-US.com

Job	Truss	Truss Type	Qty	Ply	HUBLER RES.	T35583155
4296478	T02G	COMMON SUPPORTED GAB	1	1		
Builders FirstSource (Lake City, FL), Lake City, FL - 32055.			8,730 s Oct 31 2024 Mitek Industries, Inc. Mon Nov 18 07:12:05 2024 Page 1			
			ID:y4QaC8UjFP4_P2wZ6BjzAPb-C2aBIVERT9aInFKaQm2aWsa1YE1gqRtYAYlOJo			
			26-11-0 13-5-8 26-11-0 13-5-8			



LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.19	Vert(LL) n/a	MT20	244/190
TCOL 7.0	Lumber DOL 1.25	BC 0.15	Vert(CT) n/a		
BCLL 0.0	Rep Stress Incr NO	WB 0.57	Horz(CT) 0.01		
BCDL 10.0	Code FBC2023/PI2014	Matrix-S		Weight: 252 lb	FT = 20%

LUMBER-	2x6 SP No.2	BRACING-	TOP CHORD	2.0-0 oc purlins (6-0-0 max.), except end verticals
TOP CHORD	2x6 SP No.2		BOT CHORD	(Switched from sheathed: Spacing > 2.8-0).
WEBS	2x6 SP No.2 *Except*			Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
OTHERS	1-28, 15-17: 2x4 SP No.3			8-6-15 oc bracing: 28-29, 8-22
	2x4 SP No.3 *Except*			1 Row at midpt
	8-22: 2x6 SP No.2			1 Brace at jlt(s): 1, 8, 15, 30, 31

REACTIONS.	All bearings 26-11-0.
(lb) -	Max Horz 29=879(LC 9)
Max Uplift	All uplift 100 lb or less at joint(s) 16 except 29=206(LC 8), 23=215(LC 12), 25=354(LC 12), 26=336(LC 12), 27=275(LC 12), 28=640(LC 12), 21=204(LC 13), 20=358(LC 13), 19=335(LC 13), 18=281(LC 13), 17=608(LC 13)
Max Grav	All reactions 250 lb or less at joint(s) except 29=729(LC 20), 18=598(LC 22), 22=1723(LC 1), 23=561(LC 19), 25=428(LC 19), 28=489(LC 19), 27=386(LC 19), 28=733(LC 19), 21=544(LC 20), 20=434(LC 20), 19=487(LC 20), 18=395(LC 20), 17=683(LC 20)

FORCES.	(lb) - Max Comp/Max Ten - All forces 250 (lb) or less except when shown.
TOP CHORD	1-29=-629/219, 1-2=-784/445, 2-3=-702/451, 3-4=-689/528, 4-5=-618/320, 5-6=-567/379, 6-7=-504/527, 7-8=-585/686, 8-9=-585/686, 9-10=-473/527, 10-11=-386/298, 11-12=-439/132, 12-13=-482/291, 13-14=-585/208, 14-15=-692/195, 15-16=-506/43
BOT CHORD	28-29=-738/809, 27-28=-293/802, 26-27=-291/615, 25-26=-291/615, 23-25=-291/615, 22-23=-291/615, 21-22=-291/615, 20-21=-291/615, 19-20=-291/615, 18-19=-291/615, 17-18=-282/602
WEBS	8-22=-161/30, 7-23=-450/248, 6-25=-320/387, 5-26=-371/388, 4-27=-305/314, 3-28=-463/448, 9-21=-434/237, 10-20=-325/391, 11-19=-371/388, 12-18=-308/315, 13-17=-454/443, 1-30=-415/681, 28-30=-431/707, 17-31=-315/650, 15-31=-302/627

- NOTES-
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22, Vult=130mph (3-second gust) Vase=101mph, TCCL=4.2psf, BCDL=3.0psf, h=20ft, Cat. II; Exp C, 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.

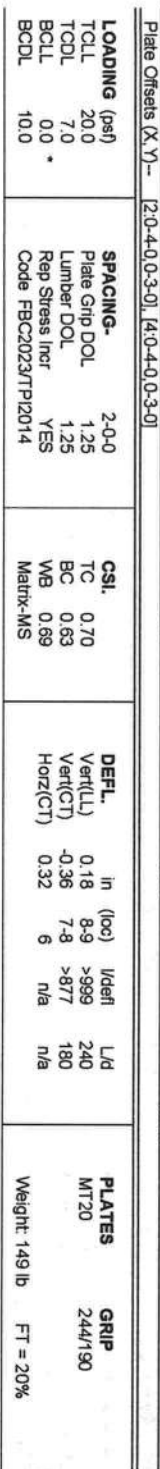
Continuous bottom chord bearing.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MM-7471 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/TPI Quality Criteria and USB-22 available from Truss Plate Institute (www.tpi.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcasociations.com).

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

Build: 8-730 s Oct 31 2024 MITek Industries, Inc. Mon Nov 18 07:12:06 2024 Page 1
Lake City, FL - 32055, 8-730
ID: y4GlaC67UfP4_P2Mw6BjxAPb-gp7YoeVb1b0F-xRUL23F9ZT23GStz9Sa6y0jN
6-4-0 6-4-0 13-9-8 20-3-0 28-11-0
6-4-0 6-9-8 6-9-8 6-9-8 6-9-8



Job	Truss	Truss Type	Qty	Ply	HUBLER RES.	T35583157
4296478	T03G	SCISSORS	1	3	Job Reference (optional)	

Builders FirstSource (Lake City, FL) Lake City, FL - 33055.

8-730 s Oct 31 2024 Mitek Industries, Inc. Mon Nov 18 07:12:06 2024 Page 2
IDy4QiaC67uFp4_P2xWz8BjzAPb-gp7OeV7b0FkRUL23F9bU2Jz5JzgUs4cy0JN

NOTES-
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2430 lb down at 13'-5-8 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 (pl)
Vert: 1-3=-189, 3-5=-189, 8-10=-70, 6-8=-70
Concentrated Loads (lb)
Vert: 3=-2430(F)
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (pl)
Vert: 1-3=-154, 3-5=-154, 8-10=-70, 6-8=-70
Concentrated Loads (lb)
Vert: 3=-2025(F)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (pl)
Vert: 1-3=-49, 3-5=-49, 8-10=-140, 6-8=-140
Concentrated Loads (lb)
Vert: 3=-810(F)
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (pl)
Vert: 1-11=135, 3-11=107, 3-13=135, 5-13=107, 8-10=-21, 6-8=-21
Horz: 1-11=-165, 3-11=-137, 3-13=165, 5-13=137
Concentrated Loads (lb)
Vert: 3=-810(F)
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (pl)
Vert: 1-12=107, 3-12=135, 3-14=107, 5-14=135, 8-10=-21, 6-8=-21
Horz: 1-12=-137, 3-12=-165, 3-14=137, 5-14=165
Concentrated Loads (lb)
Vert: 3=-810(F)
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (pl)
Vert: 1-3=-144, 3-5=-144, 8-10=-70, 6-8=-70
Horz: 1-3=95, 3-5=95
Concentrated Loads (lb)
Vert: 3=-810(F)
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (pl)
Vert: 1-3=-144, 3-5=-144, 8-10=-70, 6-8=-70
Horz: 1-3=95, 3-5=95
Concentrated Loads (lb)
Vert: 3=-810(F)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (pl)
Vert: 1-3=-42, 3-5=70, 8-10=-21, 6-8=-21
Horz: 1-3=13, 3-5=99
Concentrated Loads (lb)
Vert: 3=-810(F)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (pl)
Vert: 1-3=70, 3-5=-42, 8-10=-21, 6-8=-21
Horz: 1-3=-99, 3-5=-13
Concentrated Loads (lb)
Vert: 3=-810(F)
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (pl)
Vert: 1-3=-112, 3-5=0, 8-10=70, 6-8=70
Horz: 1-3=63, 3-5=49
Concentrated Loads (lb)
Vert: 3=-810(F)
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (pl)
Vert: 1-3=0, 3-5=-112, 8-10=70, 6-8=70
Horz: 1-3=-49, 3-5=-63
Concentrated Loads (lb)
Vert: 3=-810(F)
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (pl)
Vert: 1-3=145, 3-5=70, 8-10=-21, 6-8=-21
Horz: 1-3=-174, 3-5=99
Concentrated Loads (lb)
Vert: 3=-810(F)
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

⚠ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-2473 rev. 11/2023 BEFORE USE.
Design valid for use only with HUBER connectors. This design is based only upon parameters shown, and is for an individual building component, not a full system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall design of the building. This design is not intended to be used in conjunction with any other design or code provisions. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personnel injury or death. This design is not intended to be used for any other application, fabrication, storage, delivery, erection and bracing of trusses and truss systems, see AISI S100 Quality Criteria and S100-22 available from Truss Plate Institute (www.truss.org) and SCS Building Component Safety Information available from the Structural Building Component Association (www.sbcas.com).

Mitek
16023 Swingle Ridge Rd.
Crownsville, MD 21031
314-504-1200 / mitek-us.com

Job	Truss	Truss Type	Qty	Ply	HUBLER RES.	T35683157
4236478	T09G	SCISSORS	1	3	Job Reference (optional)	
Builders FirstSource (Lake City, FL), Lake City, FL - 32055, ID:\4QiaC67U\F4_P2\WZ6BzAPb-87hLc_WV\m2jbsESd52M-Hb1TmESexuZ7\wzB8c2y10M 8.730 s Oct 31 2024 Mitek Industries, Inc. Mon Nov 18 07:12:07 2024 Page 4						
LOAD CASE(S) Standard						
26) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25						
Uniform Loads (plf)						
Vert: 1-3=-49, 3-5=-189, 8-10=-70, 6-8=-70						
Concentrated Loads (lb)						
Vert: 3=-2430(F)						
27) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25						
Uniform Loads (plf)						
Vert: 1-3=-154, 3-5=-49, 8-10=-70, 6-8=-70						
Concentrated Loads (lb)						
Vert: 3=-2025(F)						
28) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25						
Uniform Loads (plf)						
Vert: 1-3=-49, 3-5=-154, 8-10=-70, 6-8=-70						
Concentrated Loads (lb)						
Vert: 3=-2025(F)						

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MM-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 shown as needed to maintain structural integrity of the truss system. All bracing is to be installed in accordance with the American Institute of Steel Construction, Inc. (AISC) 360-16 Specification for Structural Steel Buildings and the American Institute of Steel Construction, Inc. (AISC) 360-10 Specification for Structural Steel Buildings. Truss Plate Institute (www.tpi.net) and AISC Building Component Safety Information available from the Structural Building Component Association (www.structuralsteel.org).

Mitek

16023 Swingle Ridge Rd.
Chesterfield, MO 63017
314-434-1200 / Mitek-US.com

Job	Truss	Truss Type	Qty	Ply	HUBLER RES.	T35583159
4296478	T05G	DBL HOME	1	3		

Builders FirstSource (Lake City, FL) Lake City, FL - 33005.

8/230 s Oct 31 2024 MITek Industries, Inc. Mon Nov 18 07:12:08 2024 Page 2
ID:yQiaC8rUfP4_P2xWz6jzAPb-d8fjPcX7XmNkUfPqdmWegf1e0_RVIG7dnhvY0JL

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-189, 4-7=-189, 9-12=-70
Concentrated Loads (lb)
Vert: 4=-2430(B)
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-154, 4-7=-154, 9-15=-123, 15-16=-175, 16-17=-123, 17-18=-175, 12-18=-175
Concentrated Loads (lb)
Vert: 4=-2025(B)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-49, 4-7=-49, 9-12=-140
Concentrated Loads (lb)
Vert: 4=-810(B)
- 4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=16, 2-4=-42, 4-6=70, 6-7=44, 9-12=62
Horz: 1-2=-45, 2-4=13, 4-6=99, 6-7=74
Concentrated Loads (lb)
Vert: 4=-810(B)
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=44, 2-4=70, 4-6=42, 6-7=16, 9-12=62
Horz: 1-2=-74, 2-4=99, 4-6=-13, 6-7=45
Concentrated Loads (lb)
Vert: 4=-810(B)
- 6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=87, 2-4=-112, 4-6=-0, 6-7=25, 9-12=13
Horz: 1-2=38, 2-4=63, 4-6=49, 6-7=74
Concentrated Loads (lb)
Vert: 4=-810(B)
- 7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=25, 2-4=-0, 4-6=-112, 6-7=87, 9-12=13
Horz: 1-2=-74, 2-4=49, 4-6=63, 6-7=-38
Concentrated Loads (lb)
Vert: 4=-810(B)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=120, 2-4=145, 4-6=70, 6-7=44, 9-12=21
Horz: 1-2=-149, 2-4=-174, 4-6=99, 6-7=74
Concentrated Loads (lb)
Vert: 4=-810(B)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=44, 2-4=70, 4-6=145, 6-7=120, 9-12=21
Horz: 1-2=-74, 2-4=99, 4-6=174, 6-7=149
Concentrated Loads (lb)
Vert: 4=-810(B)
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=67, 2-4=92, 4-6=47, 6-7=22, 9-12=21
Horz: 1-2=-96, 2-4=-121, 4-6=77, 6-7=52
Concentrated Loads (lb)
Vert: 4=-810(B)
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=22, 2-4=47, 4-6=92, 6-7=67, 9-12=21
Horz: 1-2=-52, 2-4=-77, 4-6=121, 6-7=96
Concentrated Loads (lb)
Vert: 4=-810(B)
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=100, 2-4=75, 4-6=-0, 6-7=25, 9-12=70
Horz: 1-2=-149, 2-4=-124, 4-6=49, 6-7=74
Concentrated Loads (lb)
Vert: 4=-810(B)
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=25, 2-4=-0, 4-6=75, 6-7=100, 9-12=70
Horz: 1-2=-74, 2-4=49, 4-6=124, 6-7=149
Concentrated Loads (lb)
Vert: 4=-810(B)

Continued on page 3

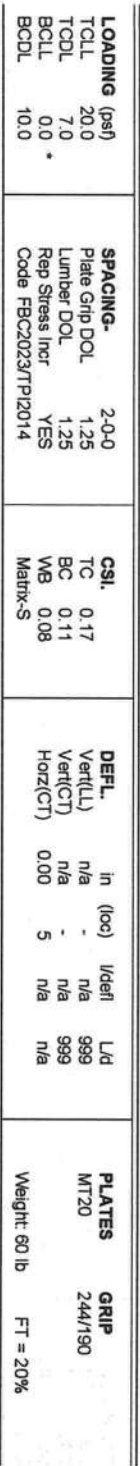
▲ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MM-7477 rev. 1/22/2023 BEFORE USE.

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 building system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Building design is the responsibility of the building designer. MITek Industries, Inc. is not responsible for any errors or omissions in this document. It is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance, consult the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see AISI/TPI Quality Criteria and Q38-22, available from Truss Plate Institute (www.tpi.net.org) and BCSI Building Component Safety Information, available from the Structural Building Component Association (www.sbcscorp.com).

MITek®

16223 Swangley Ridge Rd.
Channahon, IL 61017
314.634.1200 / MITek-US.com

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8,730 sq Oct 31 2024 MITEK Industries, Inc. Mon Nov 18 07:12:08 2024 Page 1
ID:VQIac87UfP4_P2XWz6BjZcAPb-4Op51gYllgc6PFOZT0luncgFFvAXeXMIghFtxy0jk
7-7-3 7-7-3 15-26 7-7-3



47(LC 13)
6=350(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-268/284, 4-6=-268/284

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-22; $V_{asd}=130\text{ mph}$ (3-second gust); $TCDL=4.2\text{ psf}$; $BCDL=3.0\text{ psf}$; $h=20\text{ ft}$; Cat. II; Exp C; Encl.,

GCP=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0.5-12 to 3-7-3, Zone1 3-7-3 to 7-7-3, Zone2 7-7-3 to 11-7-3, Zone1 11-7-3 to 14-8-10 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.

b) This truss has been designed for a live load of 20 kpsf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (i=b) 8=248, 6=247.

Philip J. O'Regan PE No.28126
 AMT'c Inc. DBA MET'c USA, FL Cert 6634
 16023 Swingley Ridge Rd. Chestertield, MO 63017
 Date:

November 18, 2024

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

Design yield for use only with T&E 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. Branding indicated is to prevent building of individual truss web and 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 handling of trusses and truss systems, see ANSI/APA Quality Criteria and DSS-22 (available from Truss Plate Institute (www.truss.org)) and BCS Building Component Safety Information (available from the Structural Building Component Association (www.structuralcomponent.com)).

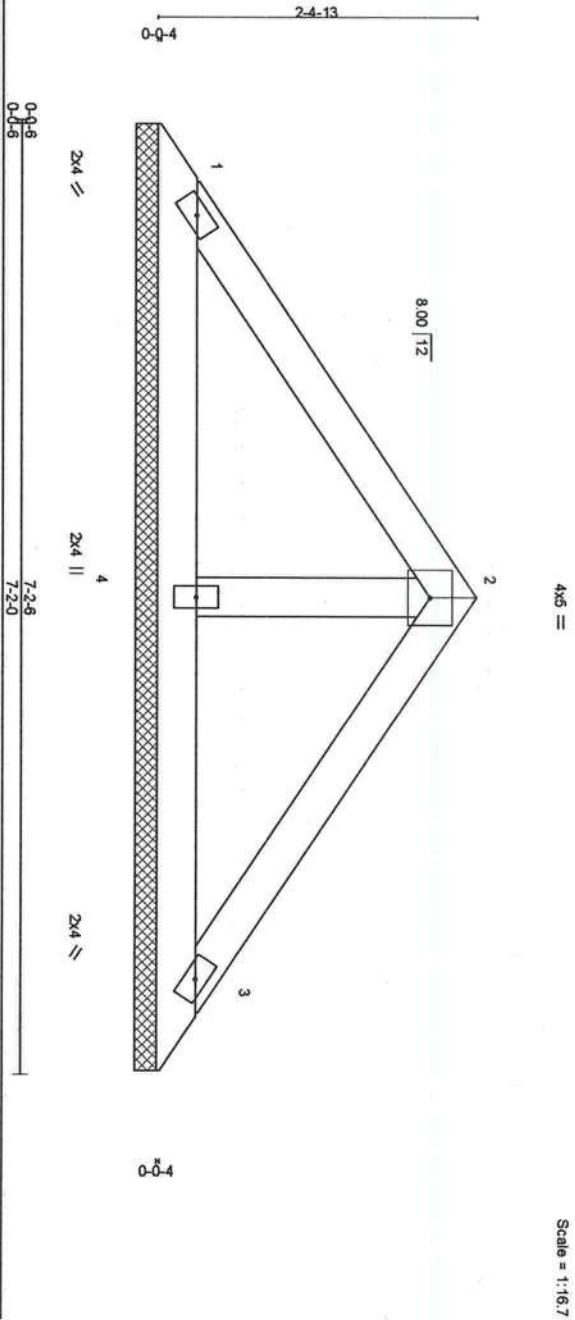
MiTek
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MITek-US.com

Job	Truss	Truss Type	Qty	Qty	Hubler Res.	
4296478	V05	Valley	2	1		T35583164

Builders FirstSource (Lake City, FL) Lake City, FL - 32055, ID:y4QiaC87UfP4_P2xW6B2xAPb_ZaNTEDVY03dSjZc7Bw_DSKM7H_VPZLxbQoDNy0J

8,730 s Oct 31 2024 MITek Industries, Inc. Mon Nov 18 07:12:10 2024 Page 1

3-7-3 3-7-3 3-7-3 3-7-3



LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	Udefl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.19	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.10	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code FBC2023/PI2014		Matrix-S					Weight: 24 lb	FT = 20%

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

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

REACTIONS. (size) 1=7-1-10, 3=7-1-10, 4=7-1-10
Max Horz 1=68(LC 8)
Max Uplift 1=52(LC 12), 3=61(LC 13), 4=67(LC 12)
Max Grav 1=113(LC 1), 3=114(LC 20), 4=236(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, VuI=130mph (3-second gust) Vasd=101mph, TCCL=4.2psf, BCDL=3.0psf, h=20ft, Cat. II; Exp. C; Encl., GCPI=0.18, MMFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MMFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

This item has been
digitally signed and
sealed by O'Regan, 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.

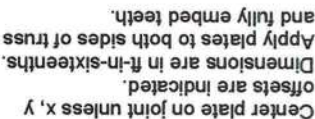
Philip J. O'Regan PE No. 58116
MITek Inc. 18A, MITek USA, EL Carr 654
16023 Smigley Ridge Rd, Chatsfield, MO 65017
B1811

November 18, 2024

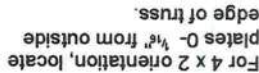
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MN-7473 rev. 1/22/2023 BEFORE USE.
Design valid for use only with MITek connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 AISI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpiinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.absccomponents.com)

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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- $\frac{1}{16}$ " from outside edge of truss.

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

Plate location details available in Mittek software or upon request.

4 X 4

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

indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

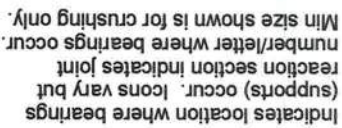
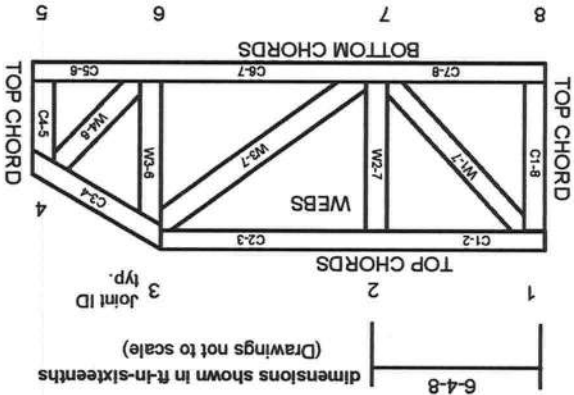


Plate Connected Wood Truss Construction.
National Design Specification for Metal
Design Standard for Bracing.
Guide to Good Practice for Handling,
Installing, Restrainting & Bracing of Metal
Plate Connected Wood Trusses.

6-4-8
dimensions shown in ft-in-sixteenths
(Drawings not to scale)



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.

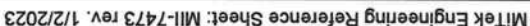
CC-ES Reports:

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

crusces are designed for wind loads in the plane of the

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

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Failure to Follow Could Cause Property Damage or Personal Injury

- 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 1 bracing should be considered.

3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.

- 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.

- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.

- shall not exceed 19% at time of fabrication.

- use with fire retardant, preservative treated, or green lumber.

- responsibility of truss fabricator. General practice is to camber for dead load deflection.

- indicated are minimum plating requirements.

- in all respects, equal to or better than that specified.

3. Top chords must be sheathed or purlins provided at spacing indicated on design.

- or less, if no ceiling is installed, unless otherwise noted.

6. Do not cut or alter truss member or plate without prior approval of an engineer.

7. Install and load vertically unless indicated otherwise.

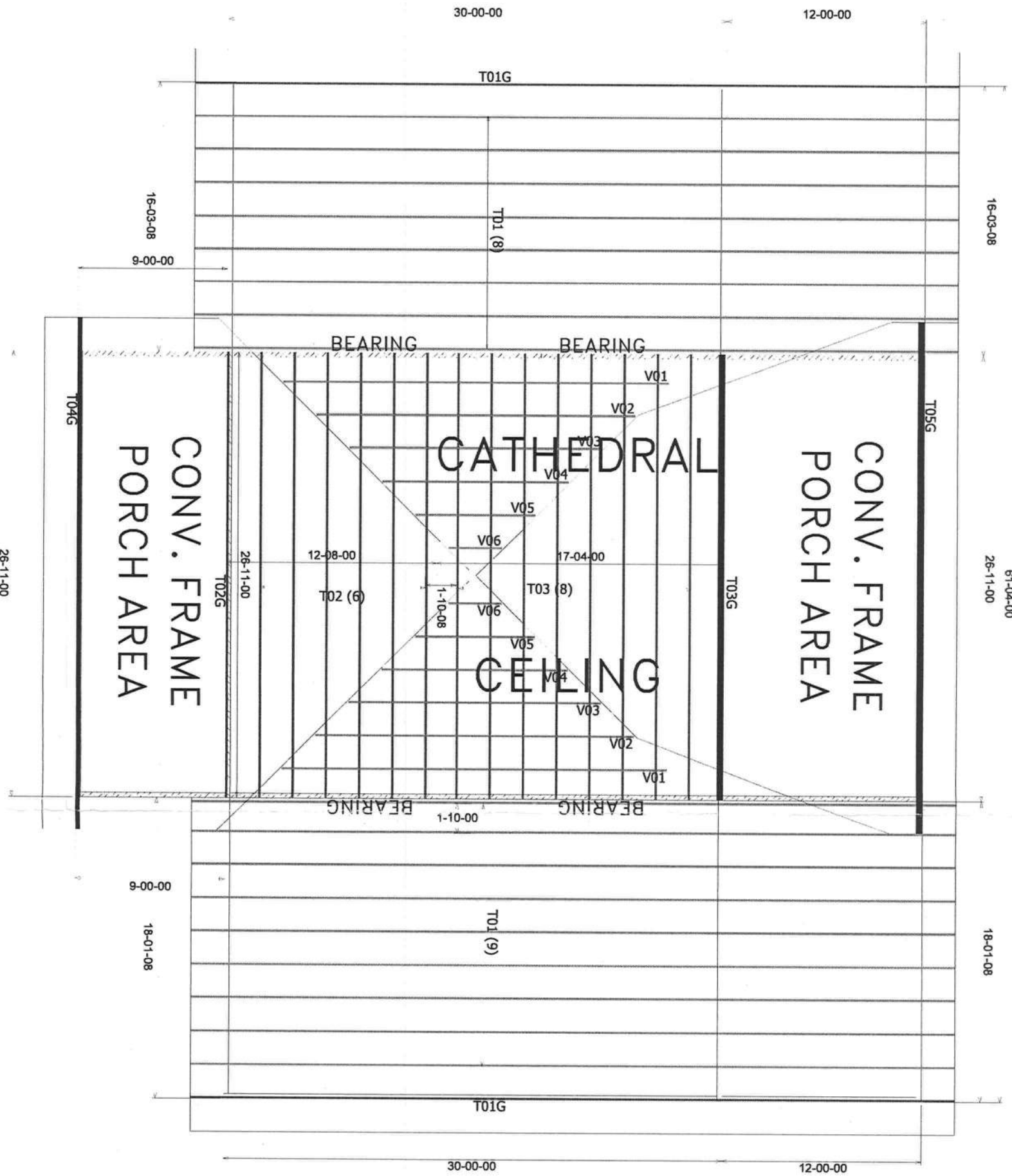
- environmental, health or performance risks. Consult with project engineer before use.

9. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.

0. Design assumes manufacture in accordance with ANSI/TP1 Quality Criteria.

1. The design does not take into account any dynamic or other loads other than those expressly stated.

8/12-3/12 PITCH - 24" OH



Hatch Legend

9' 1-1/8"

10' 1-1/8"

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

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

By _____ Date _____

FINAL LAYOUT FOR PRODUCTION
Initial: _____ Date: _____
Requested Delivery Date: _____

ROOF LOADING: TOTAL: 20.7 PSF
DEAD: 10.0 PSF
LIVE: 10.7 PSF
WIND: 15.0 PSF
DURATION: 1.00
3 PSF TOTAL WIND USED TO HEART LUMBER

FLOOR LOADING: TOTAL: 10.0 PSF
DEAD: 10.0 PSF
LIVE: 0.0 PSF
WIND: 0.0 PSF
DURATION: 1.00

EXPOSURE CATEGORY: C
DESIGN WIND SPEED: 140 MPH
WIND IMPORTANCE FACTOR: 1.00

ROOF PITCH: 8/12-3/12
CEILING PITCH: 5/12
TOP CHORD SIZE: 2 X 4 min
BOTTOM CHORD SIZE: 2 X 4 min
OVERHANG LENGTH: 24"
END CUT: PLUMB
CANTILEVER: N/A
TRUSS SPACING: 24"
BUILDING CODE: IRC 2023

BEARING HEIGHT SCHEDULE

BUILDER: Giebelg Homes
MODEL: Hubler Res
ELEV: GABLE
ADDRESS: 1608 SW TOMMY LITES ST.
LOT / BLOCK: N/A
SUBDIVISION: HUBLER RES.
CITY: Lake City
DRAWN BY: Holloway, Kim
JOB #: 4296478
DATE: 11/4/2024 **SCALE:** N.T.S.

REVISIONS:



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