



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

RE: 4768181 - HUMPHREY RES.

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

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

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

Name: License #:
Address:
City: State:

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

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

This package includes 51 individual, Truss Design Drawings and 0 Additional Drawings.

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

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T38101176	CJ01	8/4/25	15	T38101190	T02G	8/4/25
2	T38101177	CJ03	8/4/25	16	T38101191	T03	8/4/25
3	T38101178	CJ05	8/4/25	17	T38101192	T04	8/4/25
4	T38101179	EJ01	8/4/25	18	T38101193	T05	8/4/25
5	T38101180	EJ02	8/4/25	19	T38101194	T06G	8/4/25
6	T38101181	EJ03	8/4/25	20	T38101195	T07	8/4/25
7	T38101182	EJ04	8/4/25	21	T38101196	T07G	8/4/25
8	T38101183	HJ04	8/4/25	22	T38101197	T08	8/4/25
9	T38101184	HJ10	8/4/25	23	T38101198	T09	8/4/25
10	T38101185	PB01	8/4/25	24	T38101199	T10	8/4/25
11	T38101186	PB01G	8/4/25	25	T38101200	T12	8/4/25
12	T38101187	T01	8/4/25	26	T38101201	T13	8/4/25
13	T38101188	T01G	8/4/25	27	T38101202	T14	8/4/25
14	T38101189	T02	8/4/25	28	T38101203	T15	8/4/25



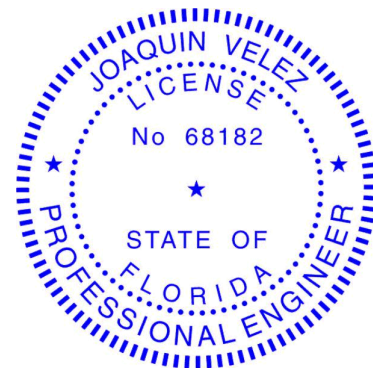
This item has been digitally signed and sealed by Velez, Joaquin, PE on the date adjacent to the seal.

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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: Velez, Joaquin

My license renewal date for the state of Florida is February 28, 2027.



Joaquin Velez PE No. 68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

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

August 4, 2025

Velez, Joaquin

1 of 2



RE: 4768181 - HUMPHREY RES.

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

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

No.	Seal#	Truss Name	Date
29	T38101204	T16	8/4/25
30	T38101205	T17	8/4/25
31	T38101206	T18	8/4/25
32	T38101207	T19	8/4/25
33	T38101208	T20	8/4/25
34	T38101209	T21	8/4/25
35	T38101210	T21G	8/4/25
36	T38101211	T22	8/4/25
37	T38101212	T22G	8/4/25
38	T38101213	T23	8/4/25
39	T38101214	T24	8/4/25
40	T38101215	T25	8/4/25
41	T38101216	T25G	8/4/25
42	T38101217	T26	8/4/25
43	T38101218	T27	8/4/25
44	T38101219	T27G	8/4/25
45	T38101220	TG01	8/4/25
46	T38101221	V01	8/4/25
47	T38101222	V02	8/4/25
48	T38101223	V03	8/4/25
49	T38101224	V04	8/4/25
50	T38101225	V05	8/4/25
51	T38101226	V06	8/4/25

Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.
4768181	CJ01	Jack-Open	6	1	T38101176

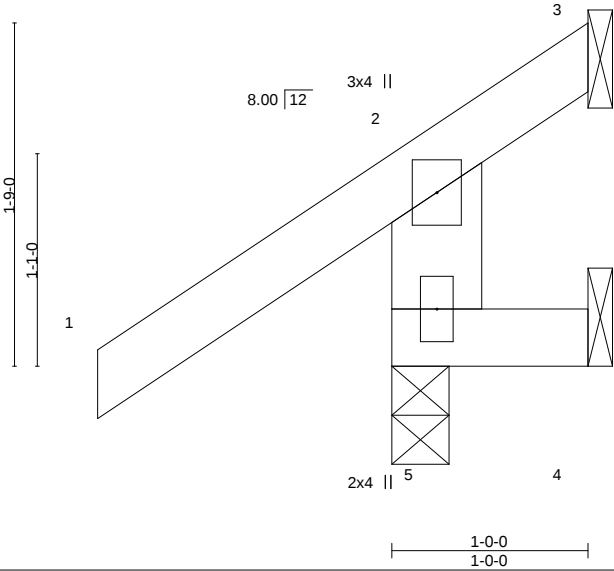
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:07 2025 Page 1

ID:7WKr8toudn35dxwKwBAfQtytHta-RzttaXTFJNfbNEsXsGKHc0MFEdOib8t1fFS8B9ysCCw



Scale = 1:11.7



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.28	Vert(LL) 0.00	5	>999	240		MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.07	Vert(CT) 0.00	5	>999	180			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3	n/a	n/a			
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MR							
								Weight: 8 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.2	

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=49(LC 9)
Max Uplift 5=61(LC 12), 3=-50(LC 1), 4=-38(LC 1)
Max Grav 5=252(LC 1), 3=10(LC 8), 4=6(LC 8)

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

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

This item has been digitally signed and sealed by Velez, Joaquin, 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.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

August 4,2025

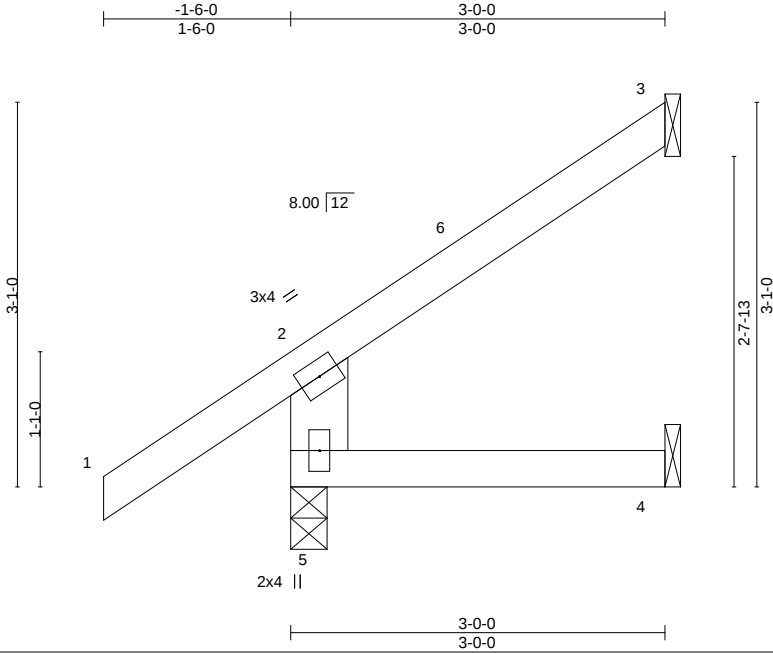
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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	HUMPHREY RES.
4768181	CJ03	Jack-Open	4	1	T38101177

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:07 2025 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-RzttaXTFJNfbNEsXsGKHc0MFEdNib8t1fFS8B9ysCCw



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2'-0-0	TC 0.28	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
TCDL 10.0	1.25	BC 0.13	Vert(CT)	-0.01	4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MR						Weight: 15 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3'-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.
WEBS 2x6 SP No.2	

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=96(LC 12)
Max Uplift 5=-40(LC 12), 3=-60(LC 12), 4=-9(LC 12)
Max Grav 5=245(LC 1), 3=69(LC 19), 4=47(LC 3)

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

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

This item has been digitally signed and sealed by Velez, Joaquin, 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.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

August 4,2025

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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101178
4768181	CJ05	Jack-Open	4	1	Job Reference (optional)	

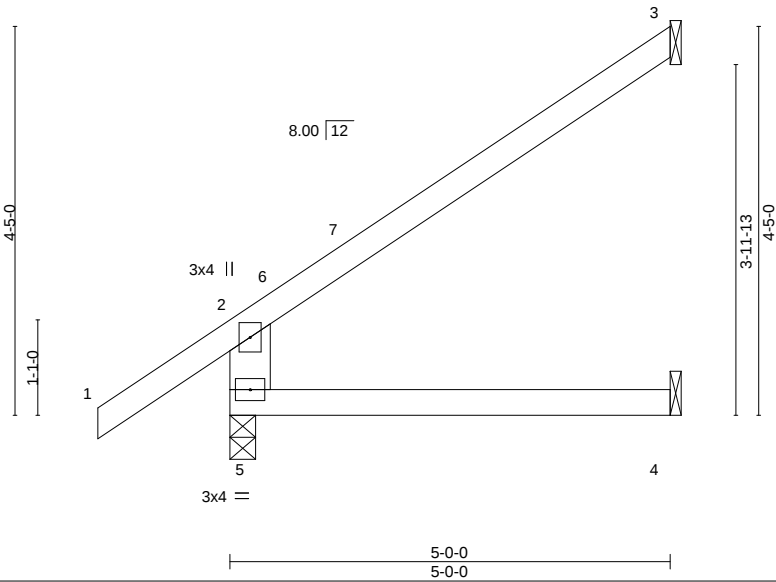
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:08 2025 Page 1

ID:7WKr8toudn35dxwKwBAfQtytHta-v9RGntTu4gnS_ORjPzrW9DuPZ0gCKb7BuvBhjbySCCv



Scale = 1:26.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.37	Vert(LL)	0.04	4-5	>999	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.37	Vert(CT)	-0.05	4-5	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.05	3	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MR						Weight: 21 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.2	

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=147(LC 12)
Max Uplift 5=-42(LC 12), 3=-103(LC 12), 4=-11(LC 12)
Max Grav 5=311(LC 1), 3=134(LC 19), 4=87(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-267/208

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-11-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4 except (jt=lb) 3=103.

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

August 4,2025

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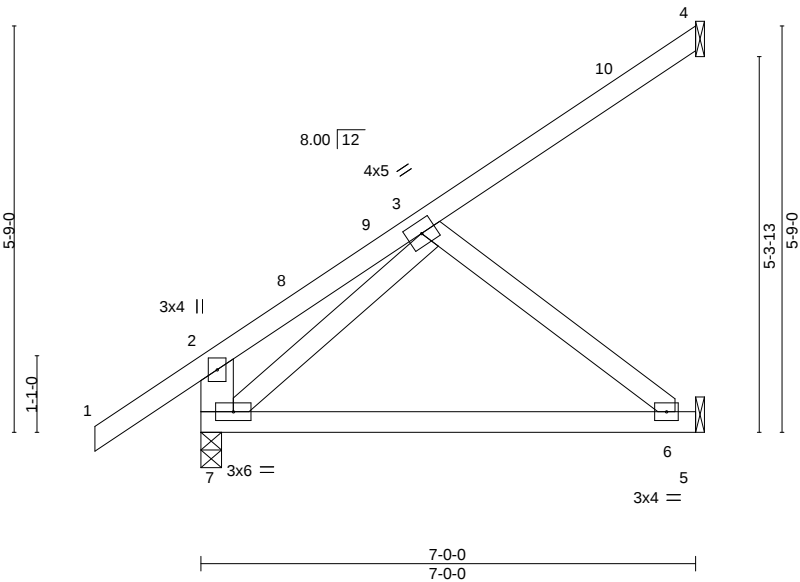
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.
4768181	EJ01	Jack-Partial	4	1	T38101179

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:08 2025 Page 1
ID:7WKR8toudn35dxwKwBAfQtytHta-v9RGntTu4gnS_ORjPzrW9DuRP0elKaqBuvBhjbySCCv



Scale = 1:32.6



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.25	Vert(LL)	-0.08	6-7	>958	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.47	Vert(CT)	-0.17	6-7	>470	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS						Weight: 40 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 2-7: 2x6 SP No.2	

REACTIONS. (size) 4=Mechanical, 5=Mechanical, 7=0-3-8
Max Horz 7=191(LC 12)
Max Uplift 4=-60(LC 12), 5=-82(LC 12), 7=-52(LC 12)
Max Grav 4=103(LC 19), 5=178(LC 19), 7=385(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-11-4 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5, 7.

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

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MiTek Inc. DBA MiTek USA FL Cert 6634
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Chesterfield, MO 63017
Date:

August 4,2025

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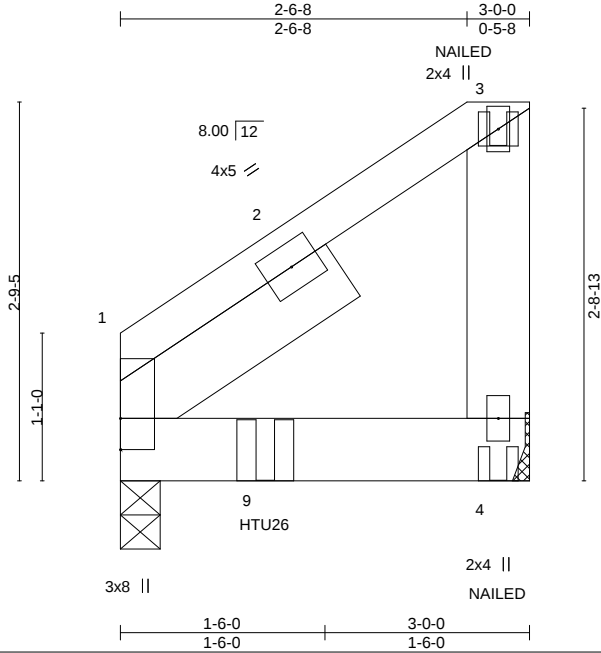
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.
4768181	EJ02	Half Hip Girder	1	1	T38101180

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

8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:09 2025 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-OL_e?DUWr_vJcY0vzhMlhRRcKQ?o32NK7ZxFG1ysCCu



Scale = 1:16.9

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.24	Vert(LL) -0.01	4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.41	Vert(CT) -0.02	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.01	1	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MP					Weight: 22 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.2	
SLIDER Left 2x6 SP No.2 1-11-8	

REACTIONS. (size) 1=0-3-8, 4=Mechanical
Max Horz 1=71(LC 8)
Max Uplift 1=-91(LC 8), 4=-180(LC 8)
Max Grav 1=526(LC 1), 4=352(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-324/78

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 4=180.
 - Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent at 1-0-12 from the left end to connect truss(es) to front face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 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

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 4-5=-20
Concentrated Loads (lb)
Vert: 3=32(B) 9=-673(F)

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Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

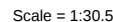
August 4,2025

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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:09 2025 Page 1
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LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-11-8 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2		
WEBS	2x6 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
	2-5: 2x4 SP No.3		

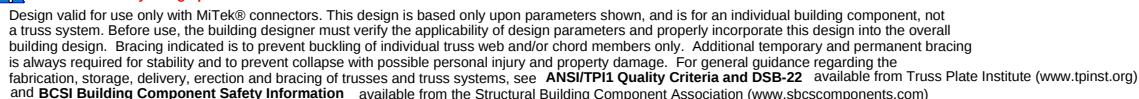
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-6=-266/139
BOT CHORD	5-6=-317/106
WEBS	2-5=-110/329

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-to-1-5-8, Zone1 1-5-8 to 4-10-12 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4 except (jt=lb) 3=117.

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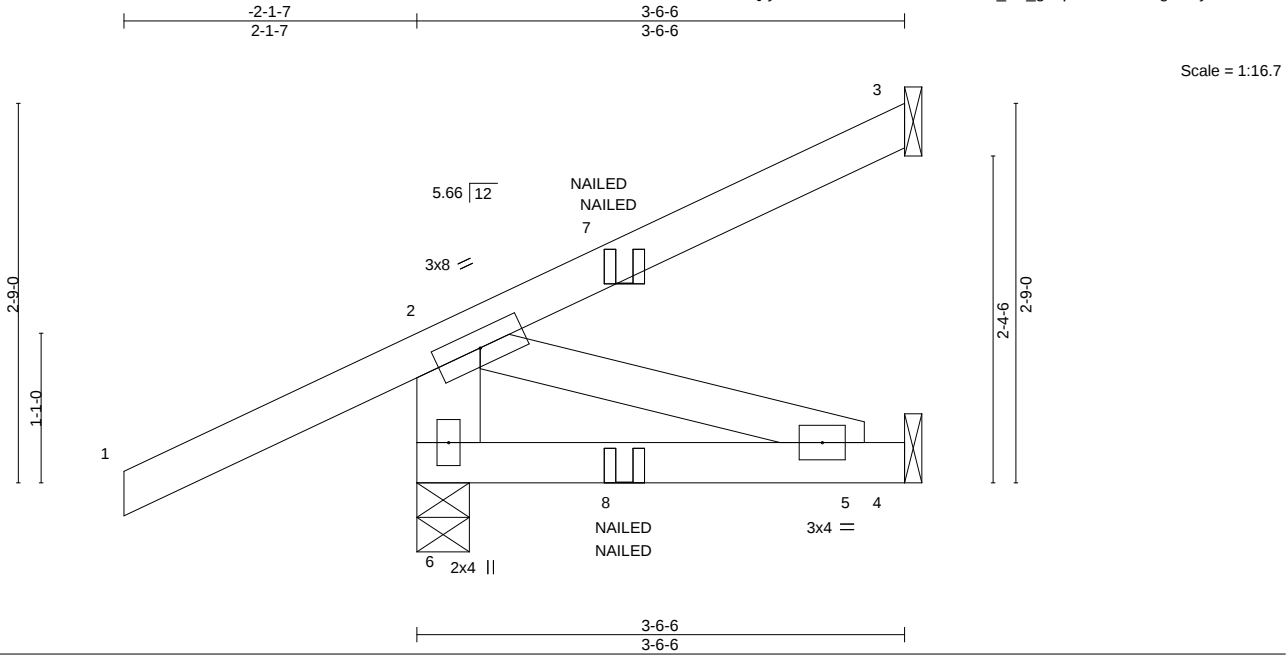


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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101183
4768181	HJ04	Diagonal Hip Girder	1	1	Job Reference (optional)	

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.62	Vert(LL)	0.01 5-6	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.19	Vert(CT)	0.01 5-6	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.03	Horz(CT)	-0.00 3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP					Weight: 21 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-6-6 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.2 *Except* 2-5: 2x4 SP No.3	

REACTIONS. (size) 6=0-4-9, 3=Mechanical, 4=Mechanical
Max Horz 6=84(LC 8)
Max Uplift 6=-100(LC 4), 3=-60(LC 25), 4=-34(LC 8)
Max Grav 6=225(LC 1), 3=36(LC 45), 4=37(LC 3)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 3, 4.
 - "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 4-6=-20

Concentrated Loads (lb)

Vert: 7=89(F=44, B=44) 8=70(F=35, B=35)

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Chesterfield, MO 63017
Date:

August 4,2025

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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101184
4768181	HJ10	Diagonal Hip Girder	2	1		

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:11 2025 Page 1

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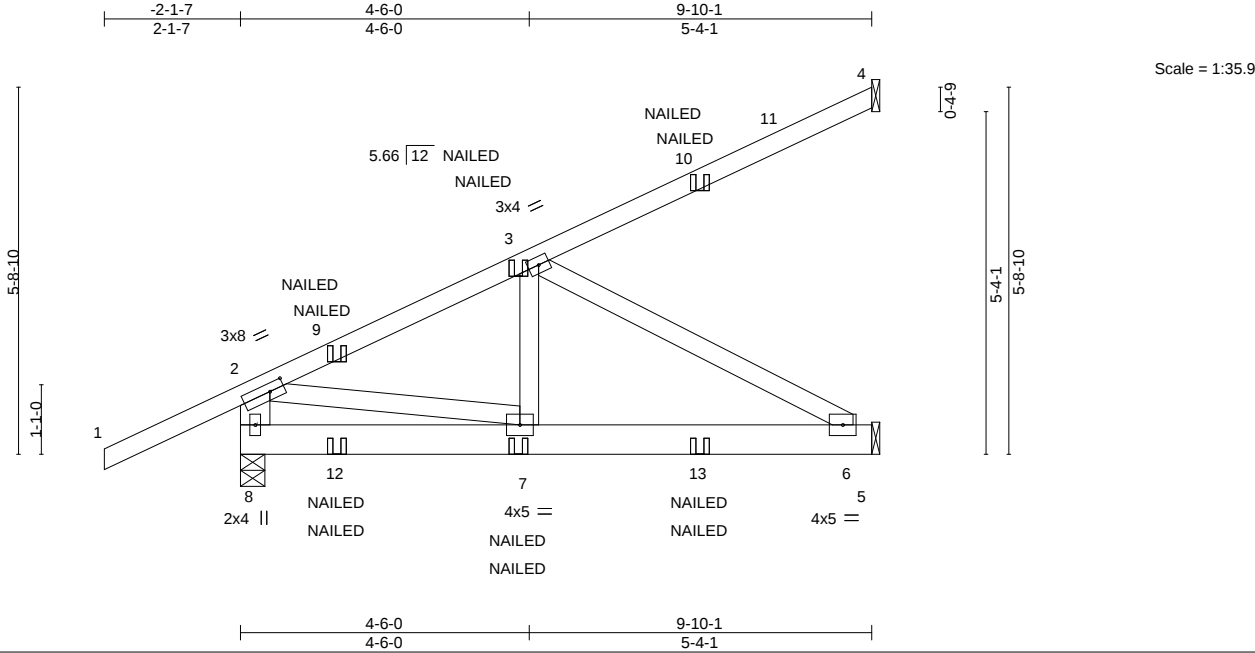


Plate Offsets (X,Y)--		[2:0-2-12,0-1-8]										
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	0.02	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.03	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.32	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 62 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 2-8: 2x6 SP No.2	

REACTIONS. (size) 8=0-4-9, 4=Mechanical, 5=Mechanical
Max Horz 8=193(LC 8)
Max Uplift 8=-232(LC 4), 4=-116(LC 8), 5=-175(LC 8)
Max Grav 8=475(LC 46), 4=158(LC 1), 5=306(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-464/205, 2-3=-578/254
BOT CHORD 7-8=-327/0, 6-7=-322/439
WEBS 2-7=-274/609, 3-6=-502/369

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=232, 4=116, 5=175.
 - "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-60, 2-4=-60, 5-8=-20

Concentrated Loads (lb)

Vert: 7=6(F=3, B=3) 9=89(F=44, B=44) 10=-68(F=-34, B=-34) 12=70(F=35, B=35) 13=-44(F=-22, B=-22)

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Chesterfield, MO 63017
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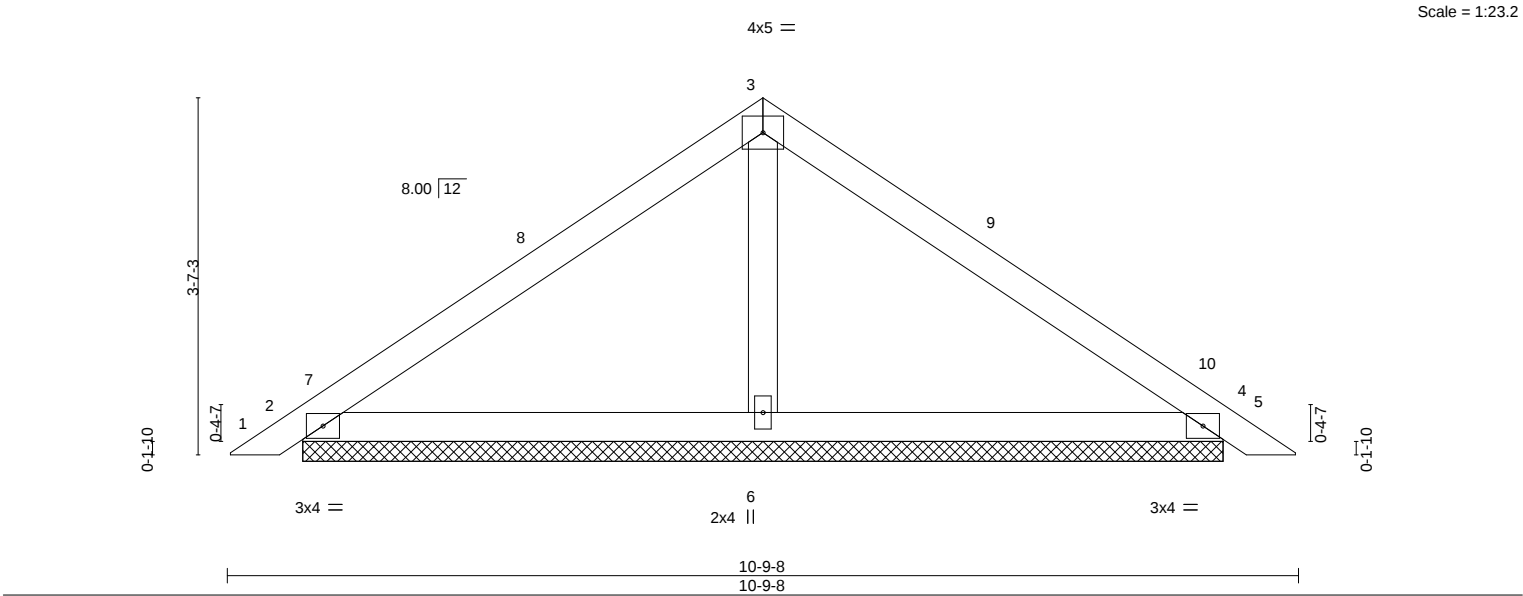
Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101185
4768181	PB01	Piggyback	16	1		

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

8.830 s Jul 24 2025 MiTek Industries, Inc.
Fri Aug 1 13:41:11 2025
Page 1
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5-4-12
5-4-12

10-9-8
5-4-12



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.27	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.21	Vert(CT)	0.01	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S						Weight: 37 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. (size) 2=9-3-4, 4=9-3-4, 6=9-3-4
Max Horz 2=-84(LC 10)
Max Uplift 2=-66(LC 12), 4=-77(LC 13), 6=-61(LC 12)
Max Grav 2=212(LC 1), 4=212(LC 1), 6=375(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-5 to 3-3-5, Zone1 3-3-5 to 5-4-12, Zone2 5-4-12 to 9-7-11, Zone1 9-7-11 to 10-6-3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Date:

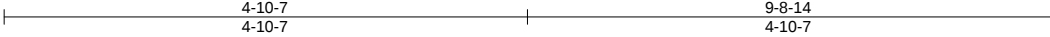
August 4,2025

Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.
4768181	PB01G	GABLE	2	1	T38101186

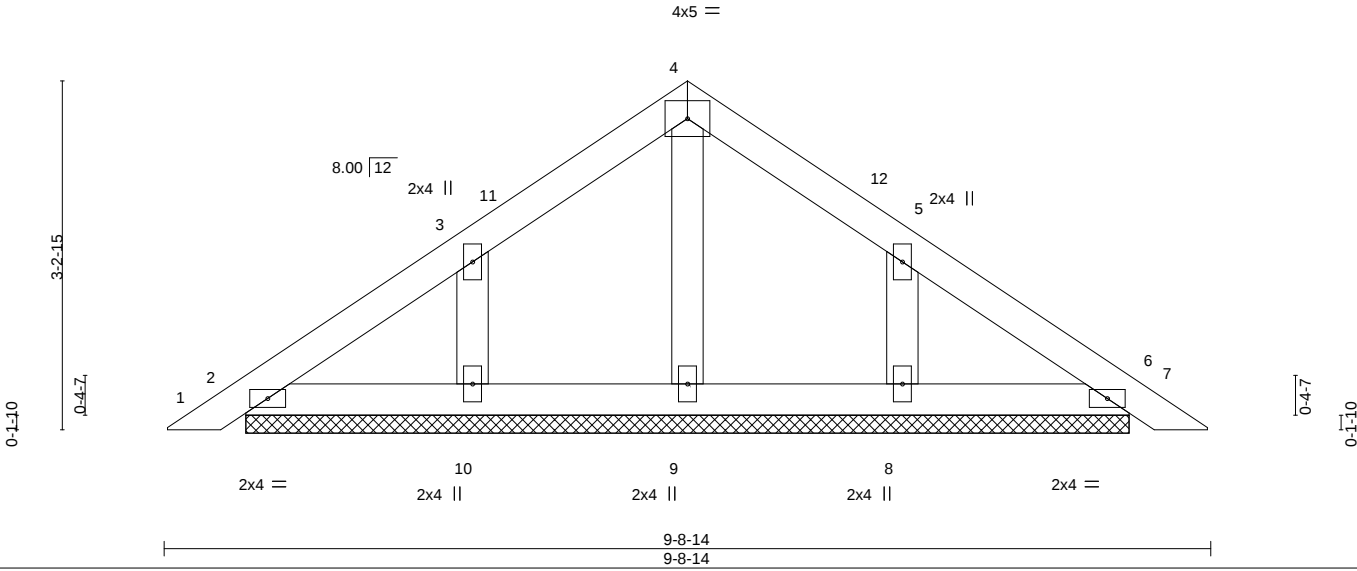
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:12 2025 Page 1

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Scale = 1:21.4



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.06	Vert(LL)	0.00	6	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.04	Vert(CT)	0.00	6	n/r		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.05	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code FBC2023/TPI2014						Weight: 37 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 8-2-10.
(lb) - Max Horz 2=-76(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-101(LC 12), 8=-101(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-5 to 3-3-5, Zone1 3-3-5 to 4-10-7, Zone2 4-10-7 to 8-11-12, Zone1 8-11-12 to 9-5-9 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 requires continuous bottom chord bearing.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=101, 8=101.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101187
4768181	T01	Common	16	1		

Builders FirstSource (Lake City,FL),		Lake City, FL - 32055,		8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:12 2025 Page 1	
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-1-6-0	5-1-7	10-0-0	14-10-9	20-0-0	21-6-0
1-6-0	5-1-7	4-10-9	4-10-9	5-1-7	1-6-0

Scale = 1:36.9

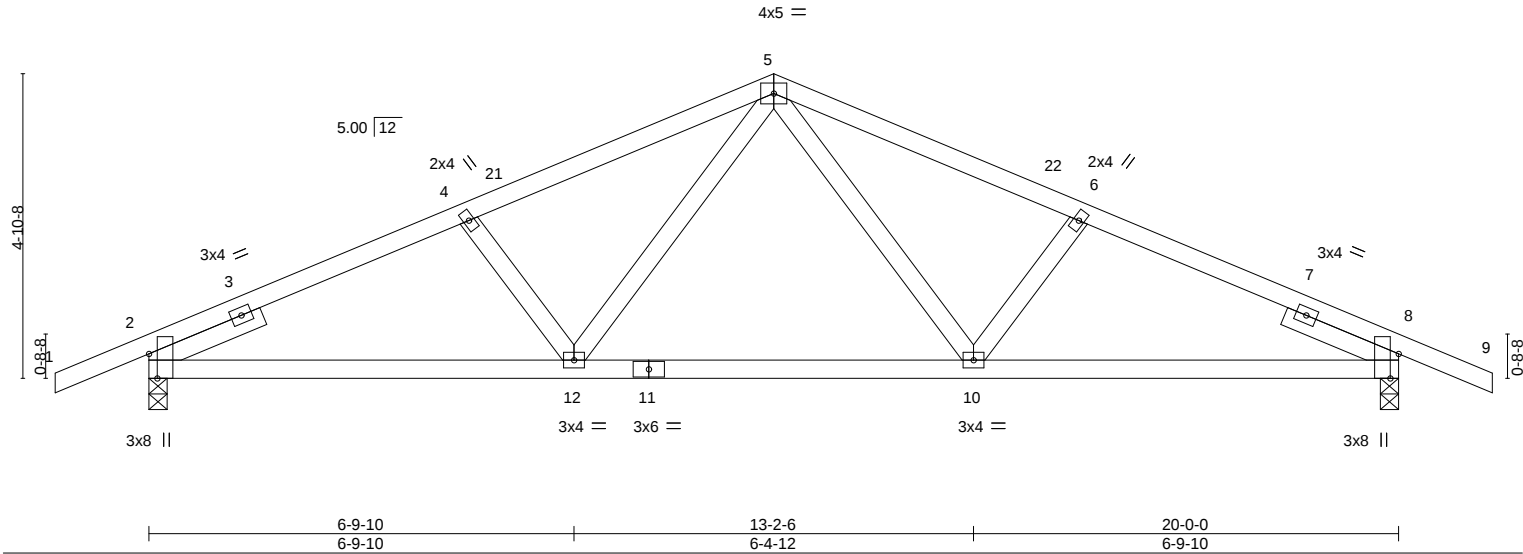


Plate Offsets (X,Y)--	[2:0-4-11,Edge], [8:0-4-11,Edge]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.33	Vert(LL)	0.08 10-12	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.49	Vert(CT)	-0.15 10-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.04 8	n/a	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS					Weight: 97 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-7-5 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-10-3 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x4 SP No.3 1-11-8, Right 2x4 SP No.3 1-11-8	

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-80(LC 13)
Max Uplift 2=-361(LC 8), 8=-361(LC 9)
Max Grav 2=890(LC 1), 8=890(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1341/667, 4-5=-1214/656, 5-6=-1214/656, 6-8=-1341/667
BOT CHORD 2-12=-538/1195, 10-12=-350/867, 8-10=-555/1195
WEBS 5-10=-237/383, 5-12=-237/383

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 21-6-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=361, 8=361.

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

August 4,2025

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®

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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101188
4768181	T01G	GABLE	1	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:13 2025 Page 1
ID:7Wkr8toudn35dxwKwBAfQtytHta-G7E9qbX0vDPI59JgCWRhsHc8s1Mc?pfw2BvSPoysCCq
-1-6-0 5-1-6 10-0-0 14-10-10 20-0-0 21-6-0
1-6-0 5-1-6 4-10-10 4-10-10 5-1-6 1-6-0
Scale = 1:38.1

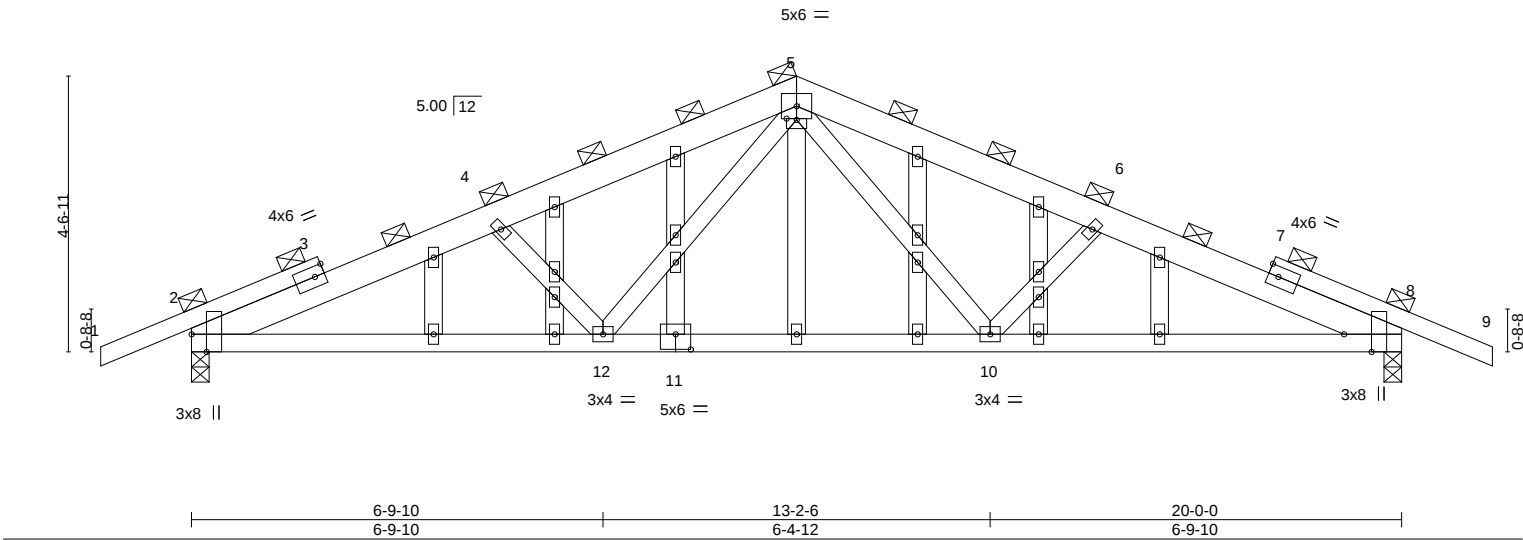


Plate Offsets (X,Y)--		[2:0-3-8,Edge], [5:0-2-0,0-0-4], [8:0-3-8,Edge], [11:0-3-0,0-3-0]					
LOADING (psf)		SPACING-		CSI.		DEFL.	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.78	in (loc)	l/defl
TCDL	10.0	Lumber DOL	1.25	BC	0.48	0.10 10-12	>999
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	-0.18 10-12	>999
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		0.04 8	n/a
						L/d	
						240	
						180	
						n/a	
						PLATES	
						MT20	
						GRIP	
						244/190	
						Weight: 138 lb	
						FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except* 2-5,5-8: 2x6 SP No.2	TOP CHORD	2-0-0 oc purlins (3-7-9 max.).
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-4-2 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=73(LC 12)
Max Uplift 2=361(LC 8), 8=361(LC 9)
Max Grav 2=890(LC 1), 8=890(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1533/981, 4-5=-1358/922, 5-6=-1358/922, 6-8=-1533/981
BOT CHORD 2-12=-848/1421, 10-12=-506/953, 8-10=-856/1421
WEBS 4-12=-322/225, 5-12=-328/444, 5-10=-328/444, 6-10=-322/225

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=361, 8=361.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

August 4,2025

Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.
4768181	T02G	GABLE	1	1	T38101190

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:14 2025 Page 1

ID:7WKr8toudn35dxwKwBAfQytHta-kJoX2xYegWXciJutmEywOU8TTTmfkHc3Gre0xFysCCp
3-3-0 5-8-12 10-1-11 12-3-8 14-5-5 18-10-4 21-4-0 24-7-0 26-1-8
3-3-0 2-5-12 4-4-15 2-1-13 2-1-13 4-4-15 2-5-12 3-3-0 1-6-8

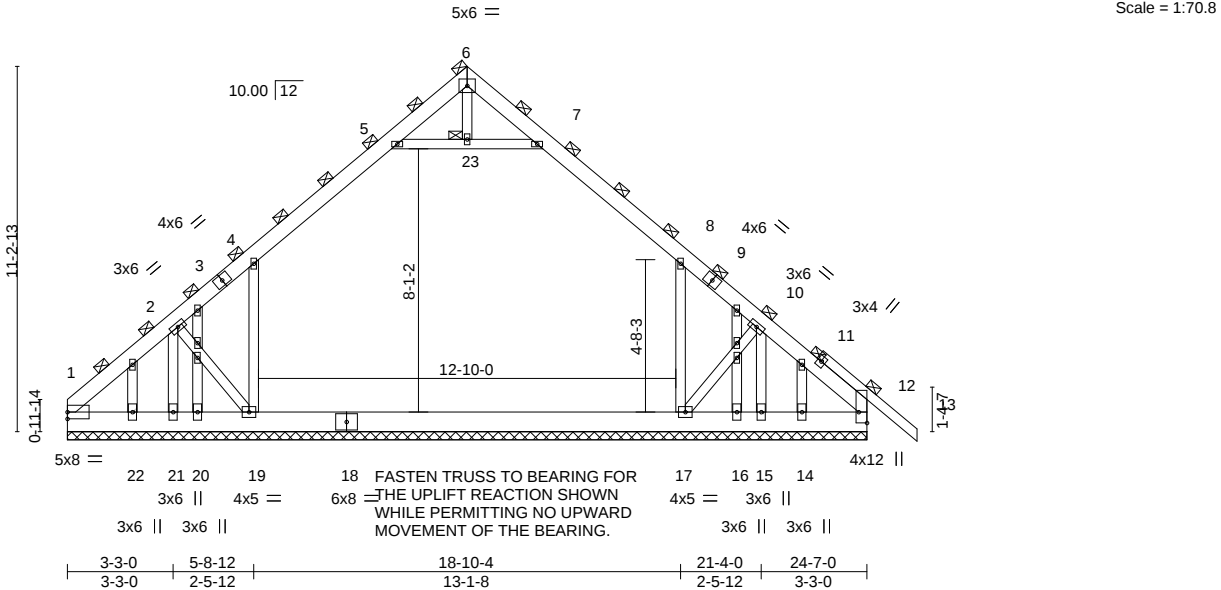


Plate Offsets (X,Y)-- [12:Edge,0-3-1]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	-0.01	13	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	-0.01	13	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 213 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.2 *Except* 11-13: 2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.).
BOT CHORD	2x8 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3	JOINTS	1 Brace at Jt(s): 6, 23
OTHERS	2x4 SP No.3		

REACTIONS.	
All bearings 24-7-0.	
(lb) - Max Horz	1=-269(LC 8)
Max Uplift	All uplift 100 lb or less at joint(s) 1, 14, 22, 12 except 19=-140(LC 12), 17=-152(LC 13), 16=-1024(LC 18), 20=-1022(LC 18)
Max Grav	All reactions 250 lb or less at joint(s) 14, 22 except 1=417(LC 21), 19=1212(LC 20), 17=1244(LC 21), 21=625(LC 21), 15=652(LC 20), 12=539(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-525/67, 2-4=-535/99, 4-5=-577/158, 7-8=-577/157, 8-10=-517/94, 10-12=-517/52
BOT CHORD	1-22=-82/380, 21-22=-82/380, 20-21=-82/380, 19-20=-82/380, 17-19=-36/416, 16-17=-26/348, 15-16=-26/348, 14-15=-26/348, 12-14=-26/348
WEBS	5-23=-279/180, 7-23=-279/180, 4-19=-373/215, 8-17=-380/216

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-23, 7-23; Wall dead load (5.0psf) on member(s).4-19, 8-17
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 14, 22, 12 except (jt=lb) 19=140, 17=152, 16=1024, 20=1022.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
 - Attic room checked for L/360 deflection.

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Chesterfield, MO 63017
Date:

August 4,2025

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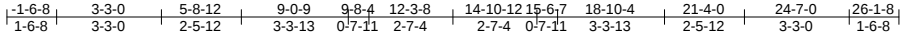
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	HUMPHREY RES.	T38101191
4768181	T03	ATTIC	2	3	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:15 2025 Page 1
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5x8 =

Scale = 1:71.5

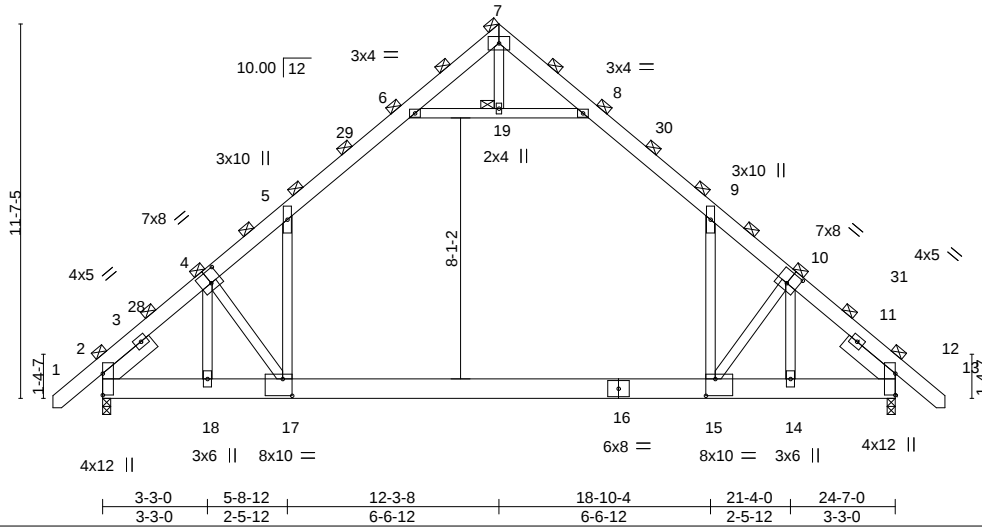


Plate Offsets (X,Y)--		[4:0-4-0,0-4-8], [10:0-4-0,0-4-8], [15:0-3-8,0-6-4], [17:0-3-8,0-6-4]									
LOADING (psf)		SPACING-	6-4-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.89	Vert(LL)	-0.46 15-17	>647	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.77 15-17	>382	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.04 2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Attic	-0.26 15-17	599	360	Weight: 649 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26 *Except* 1-4,10-13: 2x6 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.) (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 7, 19
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8	

REACTIONS. (size) 2=0-3-0, 12=0-3-0
Max Horz 2=-893(LC 10)
Max Uplift 2=-213(LC 12), 12=-213(LC 13)
Max Grav 2=5105(LC 20), 12=5105(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-5184/152, 4-5=-6776/158, 5-6=-3967/490, 6-7=-3/1269, 7-8=-4/1269,
8-9=-3967/489, 9-10=-6774/157, 10-12=-5189/157
BOT CHORD 2-18=-403/4416, 17-18=-409/4397, 15-17=0/4282, 14-15=0/3798, 12-14=0/3825
WEBS 6-19=-5501/396, 8-19=-5501/396, 9-15=0/4378, 10-15=-673/974, 10-14=-3076/157,
5-17=0/4378, 4-17=-663/968, 4-18=-3069/148, 7-19=0/264

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-14 to 1-7-2, Zone1 1-7-2 to 12-3-8, Zone2 12-3-8 to 16-6-7, Zone1 16-6-7 to 25-11-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s). 5-6, 8-9, 6-19, 8-19; Wall dead load (5.0psf) on member(s).9-15, 5-17
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-17
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=213, 12=213.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.

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Date:

August 4,2025

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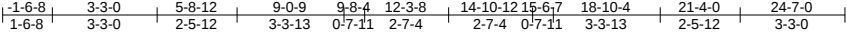
Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101192
4768181	T04	Attic	5	1		

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:16 2025 Page 1

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5x8 =

Scale = 1:71.5

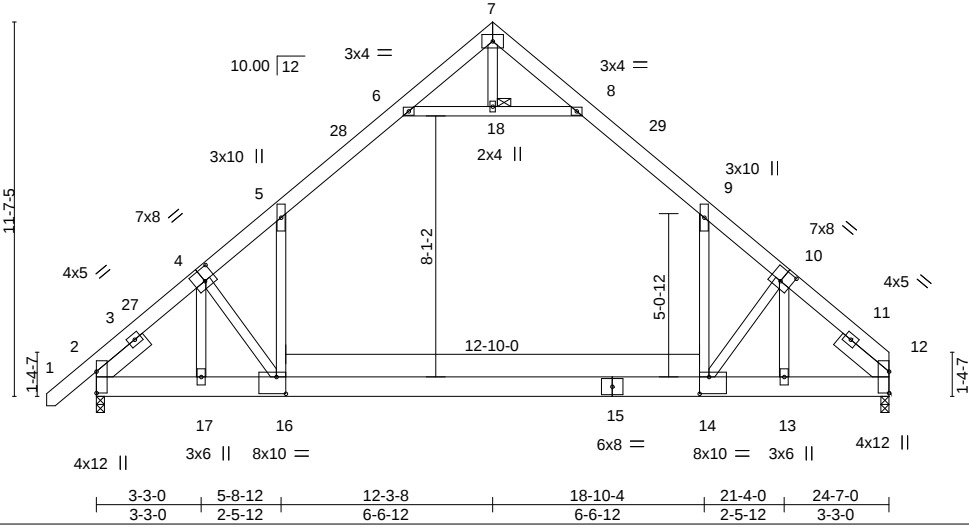


Plate Offsets (X,Y)--		[4:0-4-0,0-4-8], [10:0-4-0,0-4-8], [14:0-3-8,0-6-4], [16:0-3-8,0-6-4]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.81	Vert(LL)	-0.43 14-16	>689	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.72 14-16	>408	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.04 2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Attic	-0.25 14-16	632	360	Weight: 212 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP 2400F 2.0E or 2x6 SP M 26 *Except* 1-4,10-12: 2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-7-10 oc purlins.
BOT CHORD	2x8 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3	JOINTS	1 Brace at Jt(s): 18
SLIDER	Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8		

REACTIONS. (size) 2=0-3-0, 12=0-3-0
Max Horz 2=272(LC 9)
Max Uplift 2=-67(LC 12), 12=-32(LC 13)
Max Grav 2=1614(LC 20), 12=1531(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1645/49, 4-5=-2157/51, 5-6=-1256/156, 6-7=-1/400, 7-8=-2/400, 8-9=-1254/155,
9-10=-2158/50, 10-12=-1662/55
BOT CHORD 2-17=-146/1408, 16-17=-148/1402, 14-16=0/1340, 13-14=0/1230, 12-13=0/1236
WEBS 6-18=-1741/127, 8-18=-1741/127, 9-14=0/1404, 10-14=-247/314, 10-13=-964/50,
5-16=0/1401, 4-16=-232/304, 4-17=-979/47

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-14 to 1-7-2, Zone1 1-7-2 to 12-3-8, Zone2 12-3-8 to 16-6-7, Zone1 16-6-7 to 24-7-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Ceiling dead load (5.0 psf) on member(s). 5-6, 8-9, 6-18, 8-18; Wall dead load (5.0psf) on member(s).9-14, 5-16
 - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.
 - 9) Attic room checked for L/360 deflection.

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Joaquin Velez PE No.68182
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Chesterfield, MO 63017
Date:

August 4,2025

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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101193
4768181	T05	ATTIC GIRDER	1	3	Job Reference (optional)	

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

8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:17 2025 Page 1
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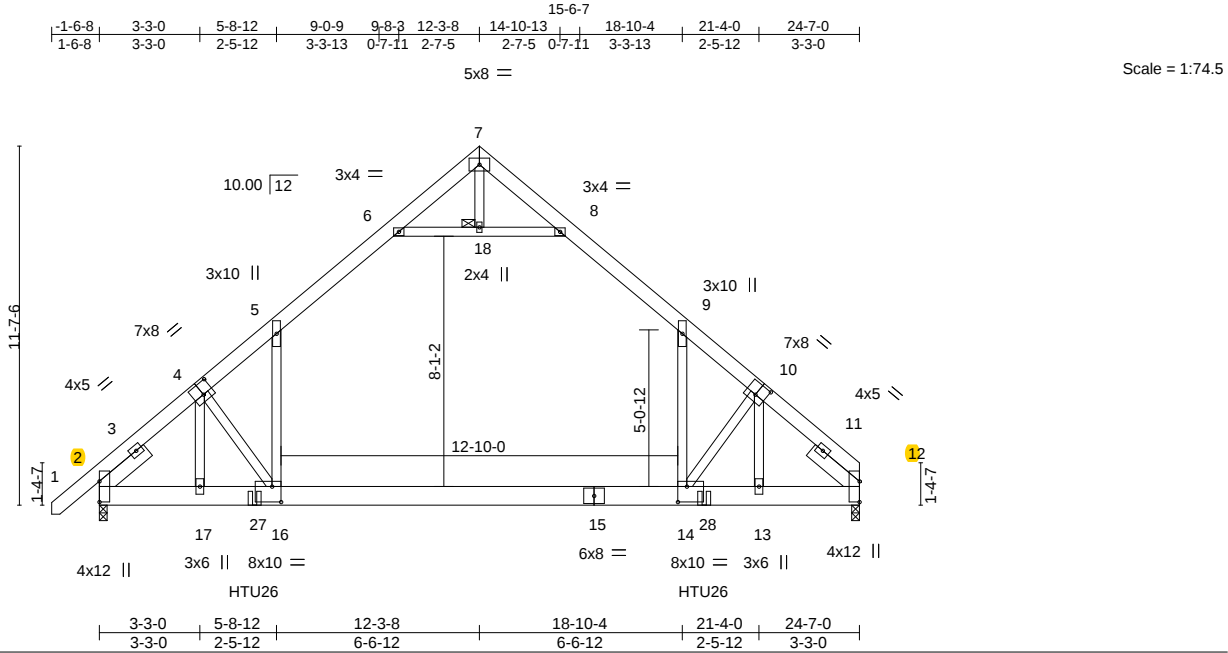


Plate Offsets (X,Y)--		[4:0-4-0,0-4-8], [10:0-4-0,0-4-8], [14:0-3-8,0-6-0], [16:0-3-8,0-6-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.77
TCDL 10.0	Lumber DOL	1.25	BC 0.53
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.55
BCDL 10.0	Code	FBC2023/TP12014	Matrix-MS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.41 14-16 >726 240
			Vert(CT) -0.65 14-16 >454 180
			Horz(CT) 0.03 2 n/a n/a
			Attic -0.22 14-16 709 360
			PLATES GRIP
			MT20 244/190
			Weight: 636 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26 *Except* 1-4,10-12: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 18
SLIDER Left 2x6 SP No.2 1-11-9, Right 2x6 SP No.2 1-11-9	

REACTIONS.	(size) 2=0-3-0, 12=0-3-0
	Max Horz 2=272(LC 7)
	Max Uplift 2=715(LC 8), 12=680(LC 9)
	Max Grav 2=4468(LC 36), 12=4385(LC 37)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-4894/797, 4-5=-6507/986, 5-6=-3937/697, 6-7=-533/319, 7-8=-532/320, 8-9=-3936/696, 9-10=-6517/985, 10-12=-4910/802
BOT CHORD	2-17=-703/3801, 16-17=-702/3778, 14-16=-548/4099, 13-14=-538/3607, 12-13=-538/3629
WEBS	9-14=-553/3901, 10-14=-353/1099, 10-13=-2854/383, 5-16=-554/3897, 4-16=-350/1118, 4-17=-2867/383, 6-18=-4562/784, 8-18=-4562/784

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s). 5-6, 8-9, 6-18, 8-18; Wall dead load (5.0psf) on member(s).9-14, 5-16
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=715, 12=680.
 - Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent spaced at 14-6-8 oc max. starting at 5-0-4 from the left end to 19-6-12 to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.

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Date:

August 4,2025

Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.
4768181	T05	ATTIC GIRDER	1	3	T38101193

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.830 s Jul 24 2025
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Page 2
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- NOTES-**
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1755 lb down and 303 lb up at 12-3-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-5=-60, 5-6=-70, 6-7=-60, 7-8=-60, 8-9=-70, 9-12=-60, 16-19=-20, 14-16=-170(B=-130), 14-23=-20, 6-8=-10

Drag: 9-14=-10, 5-16=-10

Concentrated Loads (lb)

Vert: 7=-1000 27=-528(B) 28=-528(B)

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Date:

August 4,2025

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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101194
4768181	T06G	Common Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:18 2025 Page 1
ID:7Wkr8toudn35dxwKwBAfQtytHta-d412ulb9ki21BwCe?41sZKJ822Ang5nfBTcD40ysCCl

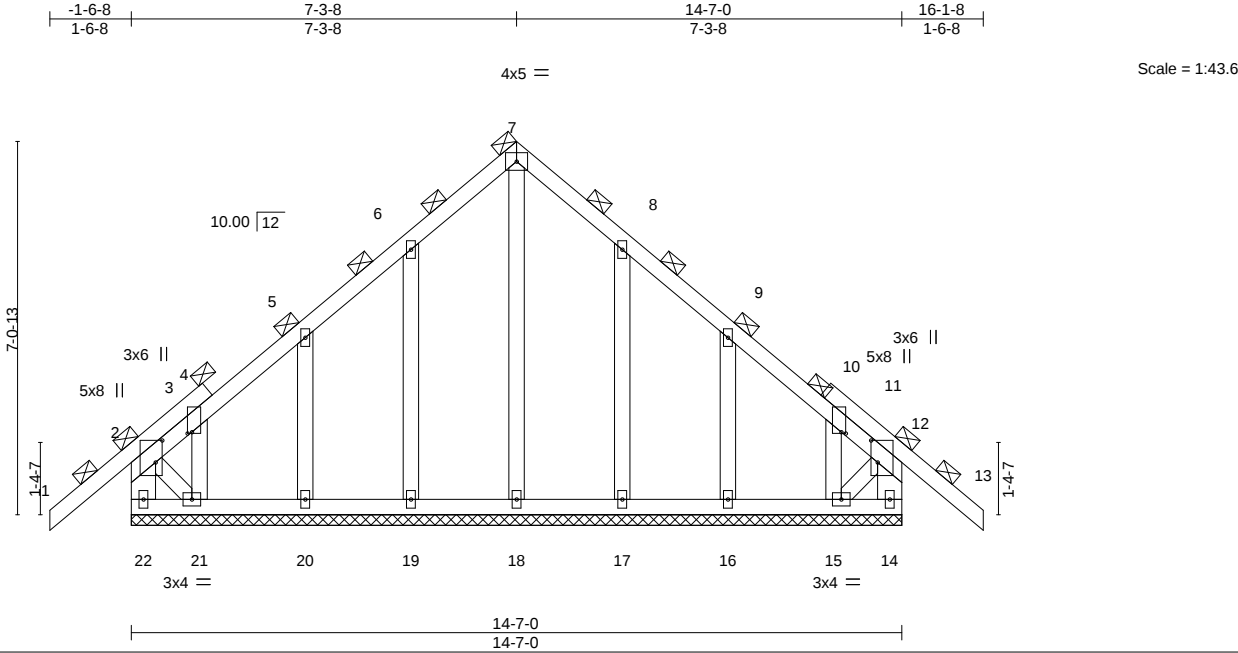


Plate Offsets (X,Y)--		[2:0-5-0,0-1-8], [3:0-0-5,0-1-0], [11:0-0-5,0-1-0], [12:0-5-0,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.24
TCDL 10.0	Lumber DOL	1.25	BC 0.04
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.01 13 n/r 120
			Vert(CT) -0.02 13 n/r 120
			Horz(CT) 0.00 14 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 107 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x6 SP No.2 *Except*	6-0-0 oc bracing: 21-22,14-15.
2-21,12-15: 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS.	All bearings 14-7-0.
(lb) - Max Horz 22=-210(LC 10)	
Max Uplift All uplift 100 lb or less at joint(s) 14, 20, 16 except 22=-116(LC 8), 19=-106(LC 12), 21=-174(LC 12), 17=-105(LC 13), 15=-161(LC 13)	
Max Grav All reactions 250 lb or less at joint(s) 14, 18, 19, 20, 21, 17, 16, 15 except 22=262(LC 20)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-22=250/112	

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 20, 16 except (jt=lb) 22=116, 19=106, 21=174, 17=105, 15=161.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Chesterfield, MO 63017
Date:

August 4,2025

Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101195
4768181	T07	Common	1	1		

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:18 2025 Page 1
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-1-6-8 6-0-0 12-3-8 18-7-0 24-7-0 26-1-8
1-6-8 6-0-0 6-3-8 6-3-8 6-0-0 1-6-8
4x5 || Scale = 1:69.0

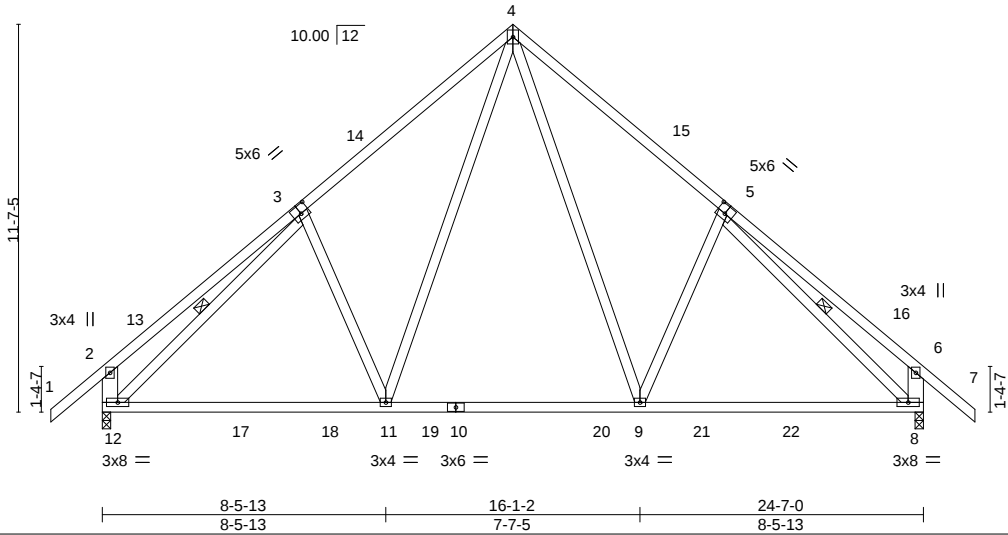


Plate Offsets (X,Y)--		[3:0-3-0,0-3-0], [5:0-3-0,0-3-0]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.46	Vert(LL)	-0.15 11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.26 11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.03 8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 172 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-12 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 2-12,6-8: 2x6 SP No.2	WEBS 1 Row at midpt 3-12, 5-8

REACTIONS. (size) 12=0-3-0, 8=0-3-0
Max Horz 12=-329(LC 10)
Max Uplift 12=-244(LC 12), 8=-244(LC 13)
Max Grav 12=1225(LC 19), 8=1225(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-360/194, 3-4=-1130/356, 4-5=-1131/356, 5-6=-359/194, 2-12=-435/233, 6-8=-435/233
BOT CHORD 11-12=-208/1015, 9-11=-57/720, 8-9=-87/876
WEBS 4-9=-236/612, 5-9=-245/299, 4-11=-236/611, 3-11=-245/299, 3-12=-1021/124, 5-8=-1021/123

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-8 to 1-5-8, Zone1 1-5-8 to 12-3-8, Zone2 12-3-8 to 16-6-7, Zone1 16-6-7 to 26-1-8 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
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=244, 8=244.

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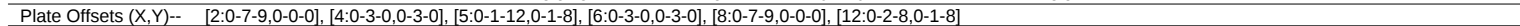
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Builders FirstSource (Lake City, FL) Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:19 2025 Page 1
 ID:7WKr8toudn35dxwkwBafQyHta-5GbQ5ecnU2Aup4nqZnY55YsFySMJQOqFo7QMncSysCCK

1-6-8	6-0-0	12-3-8	18-7-0	24-7-0	26-1-8
1-6-8	6-0-0	6-3-8	6-3-8	6-0-0	1-6-8



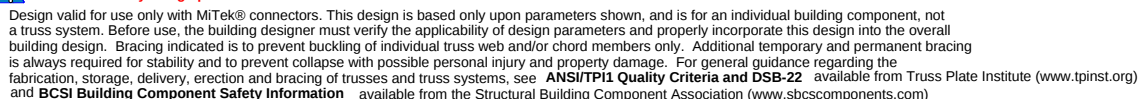
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except*	WEBS	1 Row at midpt 5-14
	2-18,8-10: 2x6 SP No.2		
OTHERS	2x4 SP No.3		

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

TOP CHORD	5-6=-664/292, 6-8=-449/229, 2-18=-349/239, 8-10=-501/257
BOT CHORD	17-18=-143/265, 16-17=-143/265, 15-16=-143/265, 14-15=-143/265, 13-14=-42/284, 11-13=-42/284, 10-11=-26/500
WEBS	5-11=-239/659, 6-11=-323/304, 5-14=-549/57, 4-14=-358/318, 6-10=-374/13

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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101197
4768181	T08	Common	13	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:20 2025 Page 1

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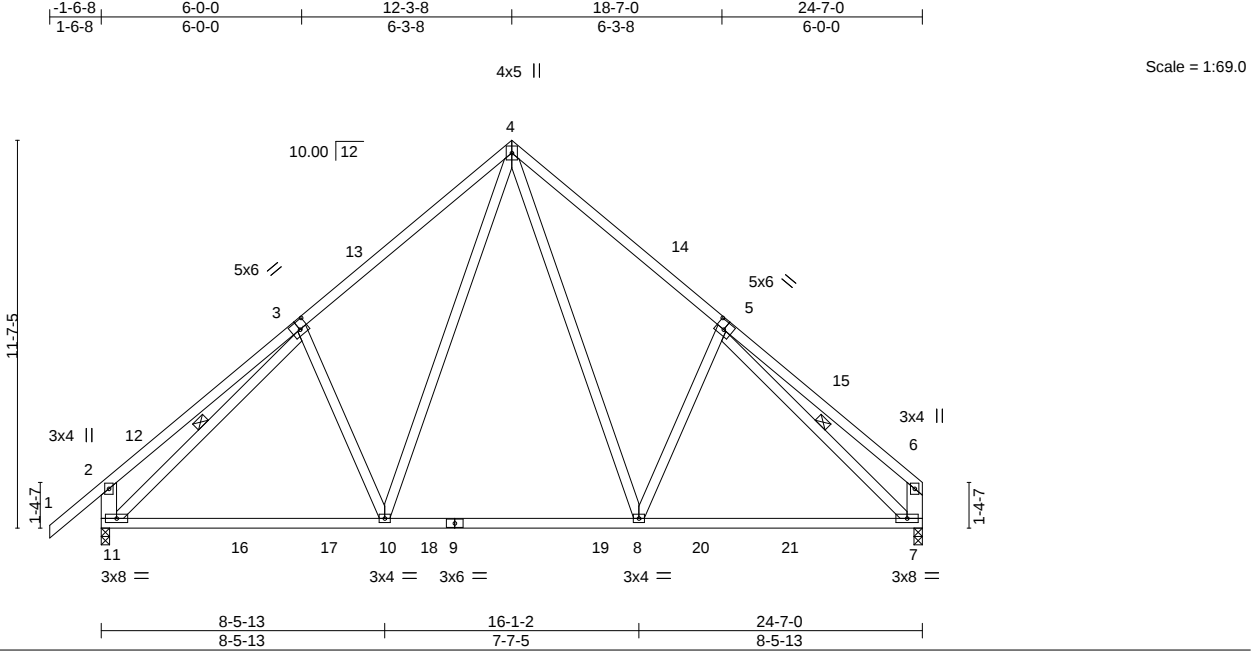


Plate Offsets (X,Y)--		[3:0-3-0,0-3-0], [5:0-3-0,0-3-0]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.48	Vert(LL)	-0.15 10-11	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.76	Vert(CT)	-0.26 7-8	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.66	Horz(CT)	0.03 7	n/a	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS					Weight: 169 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 2-11,6-7: 2x6 SP No.2	WEBS 1 Row at midpt 3-11, 5-7

REACTIONS. (size) 11=0-3-0, 7=0-3-0
Max Horz 11=317(LC 9)
Max Uplift 11=-244(LC 12), 7=-199(LC 13)
Max Grav 11=1228(LC 19), 7=1122(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-359/194, 3-4=-1134/356, 4-5=-1143/360, 5-6=-356/150, 2-11=-435/233, 6-7=-323/154
BOT CHORD 10-11=-232/1000, 8-10=-72/705, 7-8=-122/869
WEBS 4-8=-240/626, 5-8=-260/304, 4-10=-236/611, 3-10=-245/299, 3-11=-1026/125, 5-7=-1019/157

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-8 to 1-5-8, Zone1 1-5-8 to 12-3-8, Zone2 12-3-8 to 16-6-7, Zone1 16-6-7 to 24-4-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=244, 7=199.

This item has been digitally signed and sealed by Velez, Joaquin, 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.

Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

August 4,2025

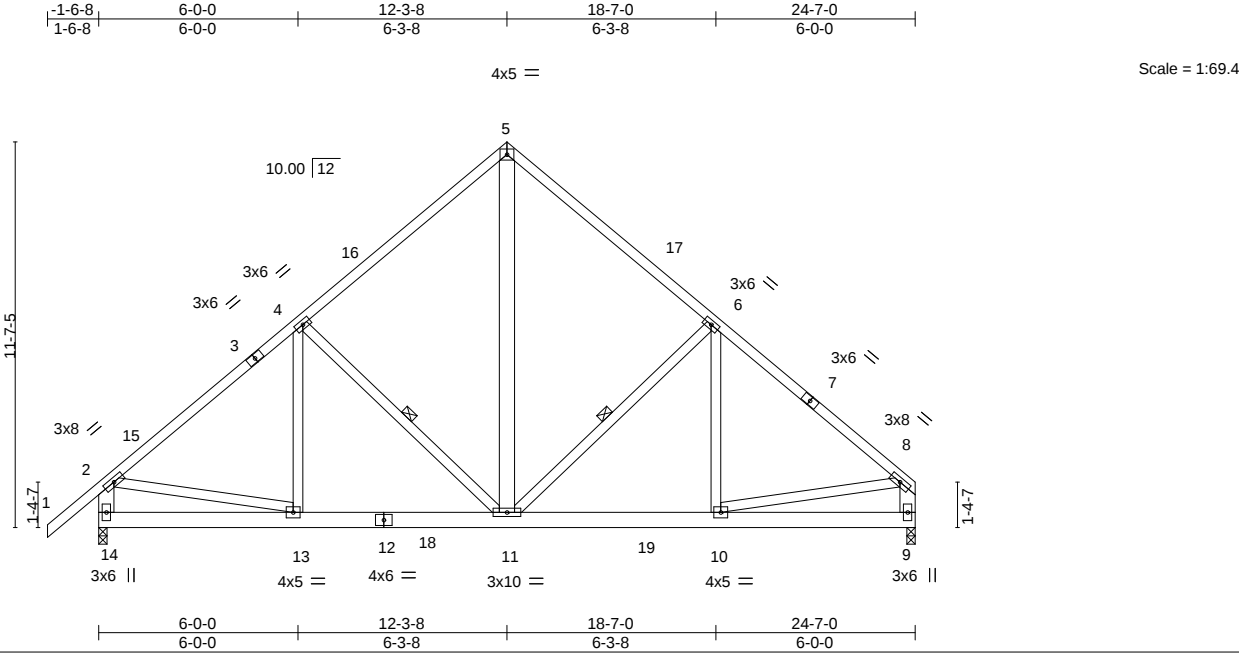
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101198
4768181	T09	Common Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:20 2025 Page 1
ID:7Wkr8toudn35dxwKwBAfQytHta-ZT9oI_dPFMIQEM06V3KelOOesmc7wNyn5K8uysCCj



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.62	Vert(LL)	-0.04 10-11	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.33	Vert(CT)	-0.09 10-11	>999	180		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.43	Horz(CT)	0.02 9	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS					Weight: 196 lb	FT = 20%
	Code FBC2023/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-11-1 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 6-11, 4-11
5-11,2-14,8-9: 2x6 SP No.2	

REACTIONS. (size) 14=0-3-0, 9=0-3-0
Max Horz 14=314(LC 9)
Max Uplift 14=-396(LC 12), 9=-351(LC 13)
Max Grav 14=1746(LC 19), 9=1625(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1875/437, 4-5=-1655/515, 5-6=-1707/515, 6-8=-1893/434, 2-14=-1641/407, 8-9=-1518/362
BOT CHORD 13-14=-312/376, 11-13=-369/1544, 10-11=-252/1416
WEBS 5-11=-185/605, 6-11=-359/243, 4-11=-335/238, 2-13=-197/1237, 8-10=-227/1293

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-8 to 1-5-8, Zone1 1-5-8 to 12-3-8, Zone2 12-3-8 to 16-6-7, Zone1 16-6-7 to 24-4-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=396, 9=351.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1127 lb down and 303 lb up at 12-3-8 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 (plf)
Vert: 1-2=-60, 2-5=-60, 5-8=-60, 9-14=-20
Concentrated Loads (lb)
Vert: 5=-1000

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Chesterfield, MO 63017
Date:

August 4,2025

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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.
4768181	T10	Monopitch	2	1	T38101199

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

8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:21 2025 Page 1

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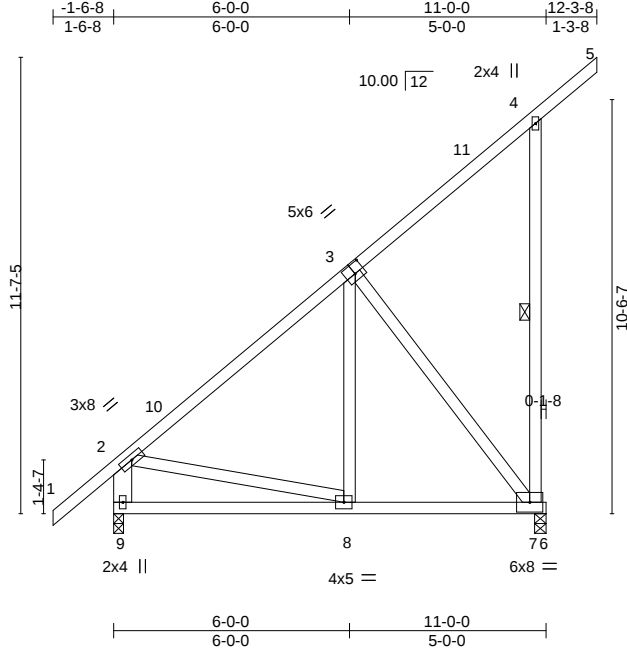


Plate Offsets (X,Y)--		[3:0-3-0,0-3-0]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.33	Vert(LL)	-0.03	8-9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.27	Vert(CT)	-0.05	8-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.42	Horz(CT)	-0.01	7	n/a	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 88 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-2-4 oc bracing.
WEBS 2x4 SP No.3 *Except* 2-9: 2x6 SP No.2	WEBS 1 Row at midpt 4-7

REACTIONS. (size) 9=0-3-0, 7=0-3-8
Max Horz 9=413(LC 12)
Max Uplift 7=-388(LC 12)
Max Grav 9=528(LC 1), 7=573(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-399/0, 4-7=-233/270, 2-9=-475/21
BOT CHORD 8-9=-526/357
WEBS 3-7=-381/267, 2-8=-123/370

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-8 to 1-5-8, Zone1 1-5-8 to 12-3-8 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=388.

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Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

August 4,2025

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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101200
4768181	T12	Hip Girder	1	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:22 2025 Page 1
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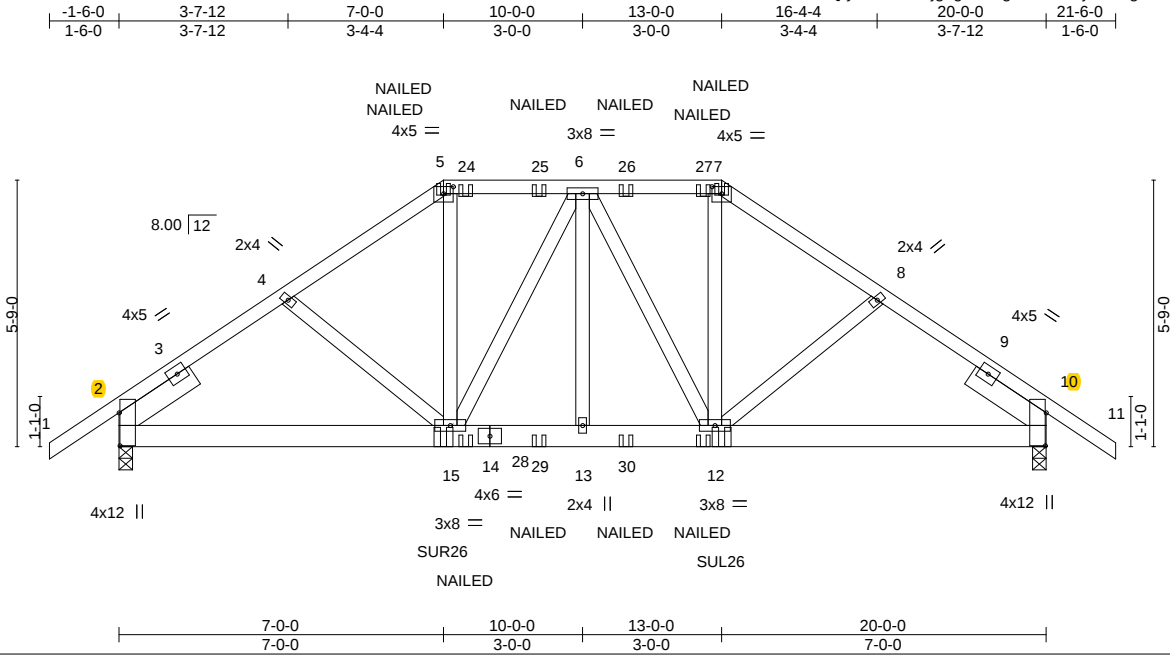


Plate Offsets (X,Y)--		[2:0-8-9,0-0-4], [5:0-2-8,0-1-13], [7:0-2-8,0-1-13], [10:0-8-9,0-0-4]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.25		TC 0.79		Vert(LL)	0.08 13-15	>999	240	MT20	244/190
TCDL 10.0		Lumber DOL 1.25		BC 0.74		Vert(CT)	-0.12 13-15	>999	180		
BCLL 0.0 *		Rep Stress Incr NO		WB 0.27		Horz(CT)	0.05 10	n/a	n/a		
BCDL 10.0		Code FBC2023/TPI2014		Matrix-MS						Weight: 148 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-11-6 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-8-13 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8	

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=-141(LC 6)
Max Uplift 2=-740(LC 8), 10=-743(LC 9)
Max Grav 2=1546(LC 1), 10=1551(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1928/1012, 4-5=-1846/1017, 5-6=-1536/900, 6-7=-1540/903, 7-8=-1851/1021, 8-10=-1933/1015
BOT CHORD 2-15=-802/1575, 13-15=-877/1730, 12-13=-877/1730, 10-12=-717/1505
WEBS 4-15=-220/275, 5-15=-344/677, 6-15=-402/268, 6-13=-252/424, 6-12=-392/261, 7-12=-344/679, 8-12=-220/274

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=740, 10=743.
 - Use Simpson Strong-Tie SUR26 (6-10dx1 1/2 Girder, 6-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 7-0-0 from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
 - Use Simpson Strong-Tie SUL26 (6-16d Girder, 6-10dx1 1/2 Truss) or equivalent at 13-0-0 from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
 - Fill all nail holes where hanger is in contact with lumber.
 - "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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Date:

August 4,2025

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.
4768181	T12	Hip Girder	1	1	T38101200

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

8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:22 2025 Page 2
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LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
 - Vert: 1-5=-60, 5-7=-60, 7-11=-60, 16-20=-20
- Concentrated Loads (lb)
 - Vert: 5=-73(B) 7=-73(B) 15=-236(B) 12=-375(B) 24=-35(B) 25=-35(B) 26=-35(B) 27=-35(B) 28=-140(B) 29=-140(B) 30=-140(B)

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Date:

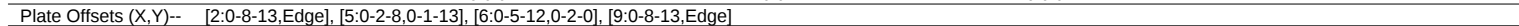
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Builders FirstSource (Lake City, FL) Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:22 2025 Page 1
ID:7WKr8toudn35dxwKwBAfQyHta-VrHYjggnzYTgXVPEv5ojAUUn6gNpbuEF65aRDnysCCh
-1-6-0 4-2-14 9-0-0 11-0-0 15-9-2 20-0-0 21-6-0
1-6-0 4-2-14 4-9-1 2-0-0 4-9-1 4-2-14 1-6-0



LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-2-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
SLIDER	Left 2x8 SP 2400F 2.0E 1-11-8, Right 2x8 SP 2400F 2.0E 1-11-8		

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-946/249, 4-5=-789/215, 5-6=-593/223, 6-7=-788/214, 7-9=-945/249
BOT CHORD 2-13=-221/747, 11-13=-56/592, 9-11=-114/726

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone3 9-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 21-6-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=219, 9=219.

Joaquin Velez PE No.68182
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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101202
4768181	T14	Common	5	1		

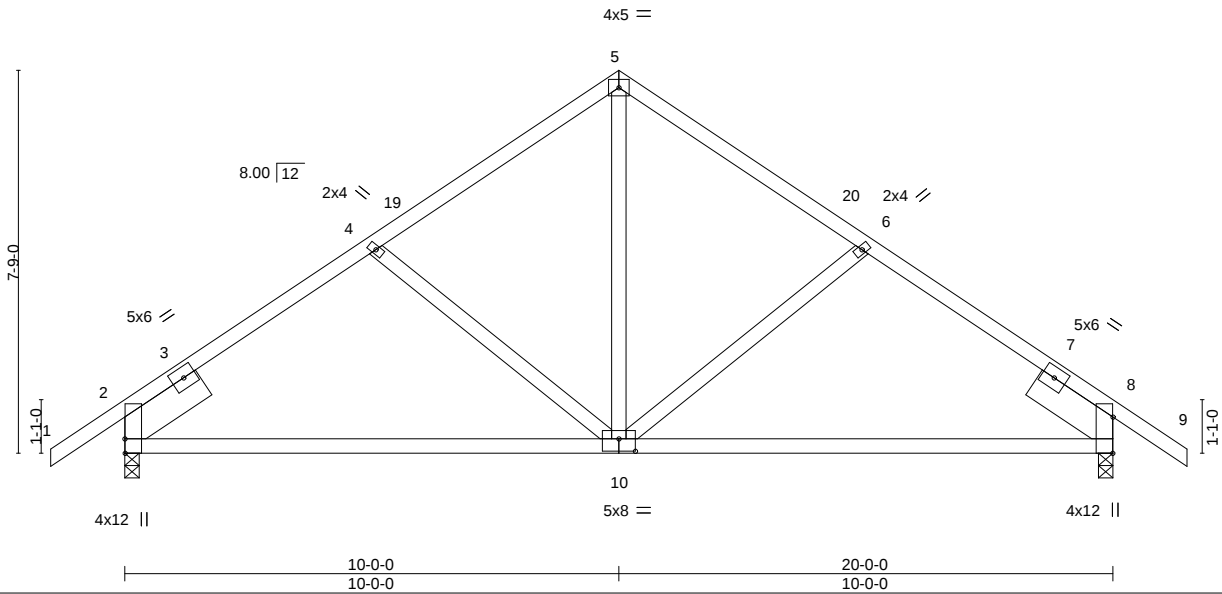
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:23 2025 Page 1

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Scale = 1:46.6



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.12 10-17 >999 240	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.24 10-17 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.04 8 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 112 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-3-2 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
SLIDER	Left 2x8 SP 2400F 2.0E 1-11-8, Right 2x8 SP 2400F 2.0E 1-11-8		

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=189(LC 11)
Max Uplift 2=-215(LC 12), 8=-215(LC 13)
Max Grav 2=890(LC 1), 8=890(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-937/236, 4-5=-751/224, 5-6=-751/224, 6-8=-937/236
BOT CHORD 2-10=-212/764, 8-10=-113/717
WEBS 5-10=-115/501, 6-10=-251/205, 4-10=-250/204

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-6-0 to 1-6-0, Zone1 1-6-0 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 21-6-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=215, 8=215.

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

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Date:

August 4,2025

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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101203
4768181	T15	Roof Special	1	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:23 2025 Page 1
ID:7WKr8toudn35dxwKwBAfQytHta-z2rxx?flYHgKHh4bdc1FO0we3j4KJOLIK_IDysCCg

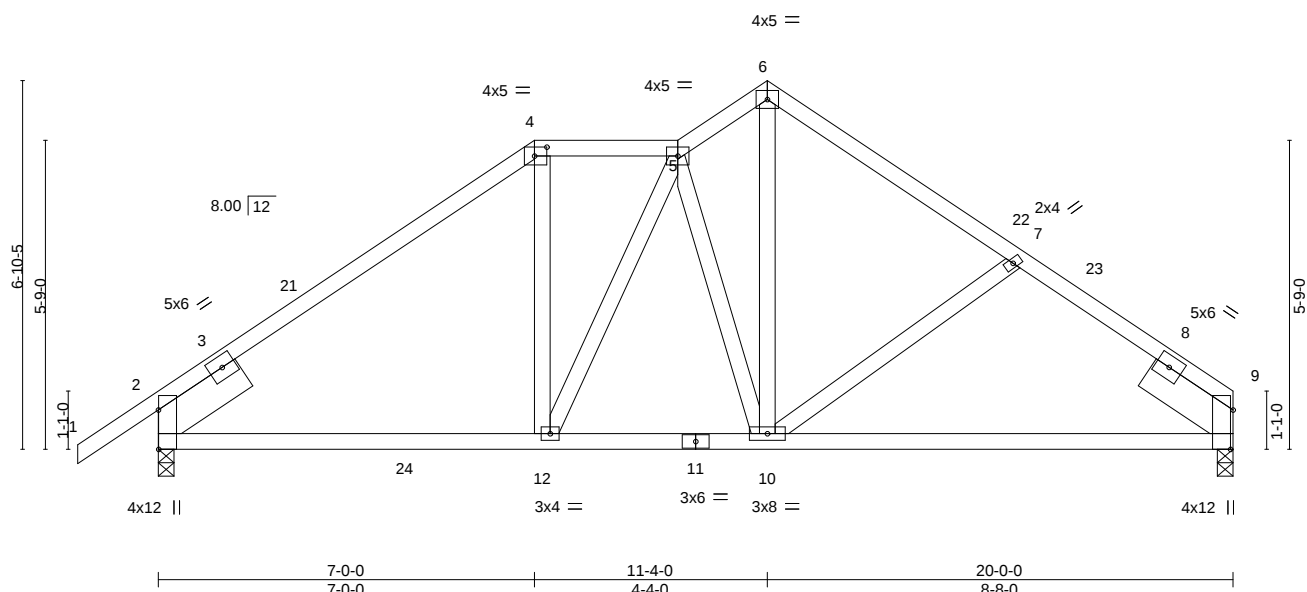


Plate Offsets (X,Y)--		[2:0-8-13,Edge], [4:0-2-12,0-2-0], [9:0-8-13,Edge]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.57	Vert(LL)	-0.09 10-15	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.67	Vert(CT)	-0.18 10-15	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.26	Horz(CT)	0.03 9	n/a	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS					Weight: 122 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-8-4 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
SLIDER	Left 2x8 SP 2400F 2.0E 1-11-8, Right 2x8 SP 2400F 2.0E 1-11-8		

REACTIONS. (size) 9=0-3-8, 2=0-3-8
Max Horz 2=159(LC 11)
Max Uplift 9=171(LC 13), 2=231(LC 12)
Max Grav 9=884(LC 20), 2=966(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-996/234, 4-5=-760/261, 5-6=-818/243, 6-7=-875/231, 7-9=-1016/243
BOT CHORD 2-12=-177/804, 10-12=-150/816, 9-10=-145/789
WEBS 4-12=-27/325, 5-10=-423/200, 6-10=-168/679

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-6-0 to 1-6-0, Zone1 1-6-0 to 7-0-0, Zone3 7-0-0 to 9-8-0, Zone1 9-8-0 to 11-4-0, Zone2 11-4-0 to 15-6-15, Zone1 15-6-15 to 20-0-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=171, 2=231.

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Date:

August 4,2025

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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101204
4768181	T16	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:24 2025 Page 1
ID:7Wkr8toudn35dxwKwBAfQtytHta-REOJ8LgwJboBvrfoLK8GobZ6YT4b3nFXZP3YHgysCCf

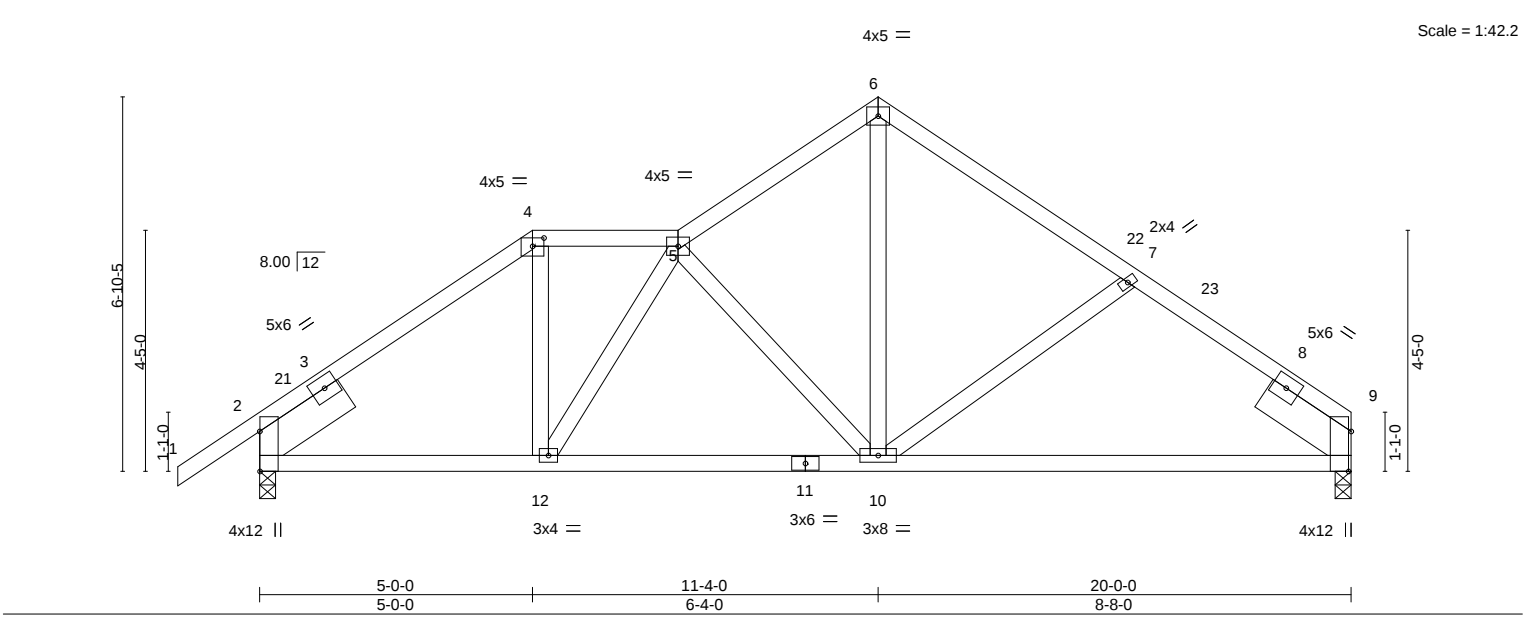


Plate Offsets (X,Y)--		[2:0-8-13,Edge], [4:0-2-8-0-1-13], [9:0-8-13,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.50
TCDL 10.0	Lumber DOL	1.25	BC 0.59
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.25
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.08 10-15 >999 240
			Vert(CT) -0.16 10-15 >999 180
			Horz(CT) 0.04 9 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 118 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x8 SP 2400F 2.0E 1-11-8, Right 2x8 SP 2400F 2.0E 1-11-8	

REACTIONS.	(size) 9=0-3-8, 2=0-3-8
	Max Horz 2=159(LC 11)
	Max Uplift 9=171(LC 13), 2=231(LC 12)
	Max Grav 9=797(LC 1), 2=893(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-954/240, 4-5=-728/243, 5-6=-795/234, 6-7=-818/234, 7-9=-962/251
BOT CHORD	2-12=-209/715, 10-12=-235/900, 9-10=-142/742
WEBS	4-12=-53/351, 5-12=-330/96, 5-10=-422/214, 6-10=-147/550

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-6-0 to 1-6-0, Zone1 1-6-0 to 5-0-0, Zone3 5-0-0 to 7-8-0, Zone1 7-8-0 to 11-4-0, Zone2 11-4-0 to 15-6-15, Zone1 15-6-15 to 20-0-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=171, 2=231.

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Chesterfield, MO 63017
Date:

August 4,2025

Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101205
4768181	T17	Roof Special Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:25 2025 Page 1
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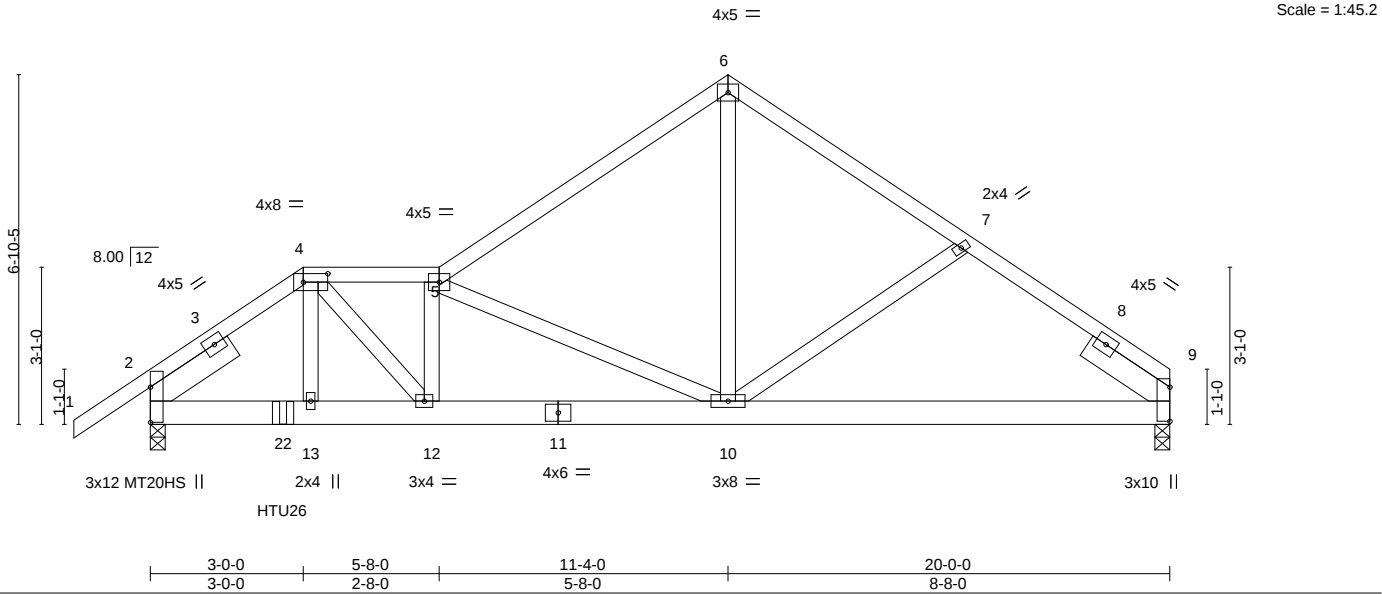


Plate Offsets (X,Y)--		[4:0-5-12,0-2-0], [9:Edge,0-0-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	-0.04	10-12	>999	240	MT20 244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.08	10-12	>999	180	MT20HS 187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.63	Horz(CT)	0.03	9	n/a	n/a	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 132 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-10-11 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
SLIDER	Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8		

REACTIONS. (size) 9=0-3-8, 2=0-3-8
Max Horz 2=159(LC 5)
Max Uplift 9=195(LC 9), 2=394(LC 8)
Max Grav 9=838(LC 1), 2=1169(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1224/422, 4-5=-1402/443, 5-6=-909/256, 6-7=-891/271, 7-9=-1040/277
BOT CHORD 2-13=-380/954, 12-13=-387/963, 10-12=-467/1423, 9-10=-176/818
WEBS 4-12=-201/657, 5-12=-379/166, 5-10=-821/375, 6-10=-150/587

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - All plates are MT20 plates unless otherwise indicated.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=195, 2=394.
 - Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent at 2-7-4 from the left end to connect truss(es) to front face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 4-5=-60, 5-6=-60, 6-9=-60, 14-18=-20
Concentrated Loads (lb)
Vert: 22=-317(F)

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Date:

August 4,2025

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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101206
4768181	T18	Common	2	1		

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

8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:25 2025 Page 1

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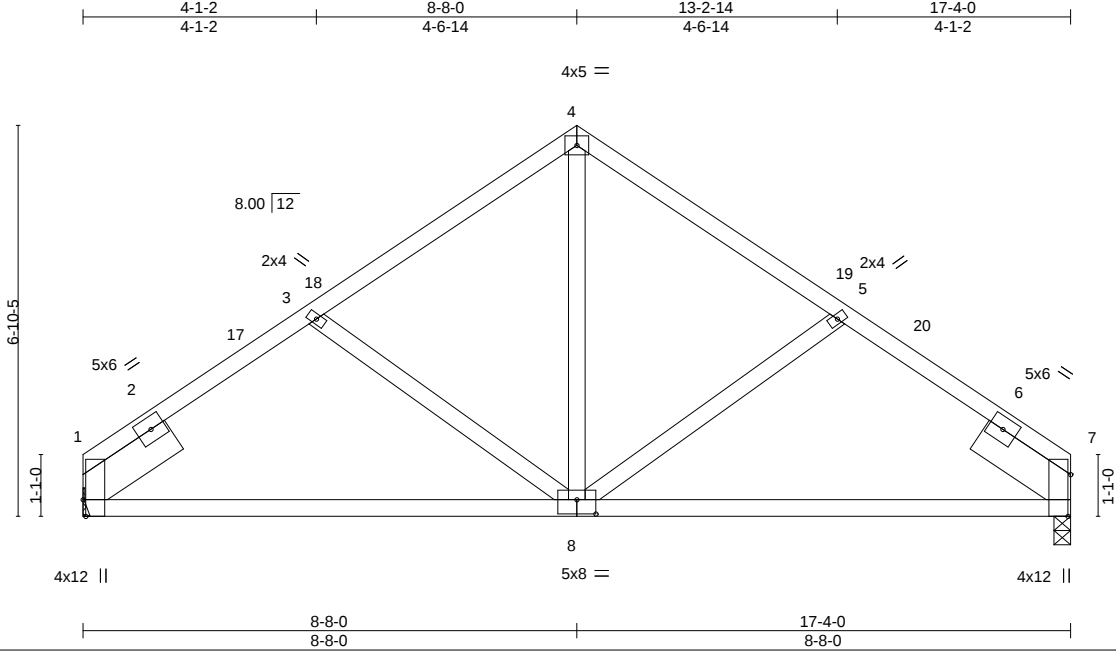


Plate Offsets (X,Y)-- [1:0-3-8,Edge], [7:0-8-13,Edge], [8:0-4-0-0-3-0]									
LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.28	Vert(LL)	-0.07	8-11	>999	240	MT20 244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.55	Vert(CT)	-0.13	8-11	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.03	7	n/a	n/a	
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 95 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x8 SP 2400F 2.0E 1'-11"-8, Right 2x8 SP 2400F 2.0E 1'-11"-8	

REACTIONS. (size) 1=Mechanical, 7=0-3-8
Max Horz 1=-143(LC 10)
Max Uplift 1=-153(LC 12), 7=-153(LC 13)
Max Grav 1=693(LC 1), 7=693(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-809/227, 3-4=-657/207, 4-5=-657/207, 5-7=-809/227
BOT CHORD 1-8=-206/657, 7-8=-125/624
WEBS 4-8=-94/418

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 8-8-0, Zone2 8-8-0 to 12-10-15, Zone1 12-10-15 to 17-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=153, 7=153.

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

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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101207
4768181	T19	Common	3	1		

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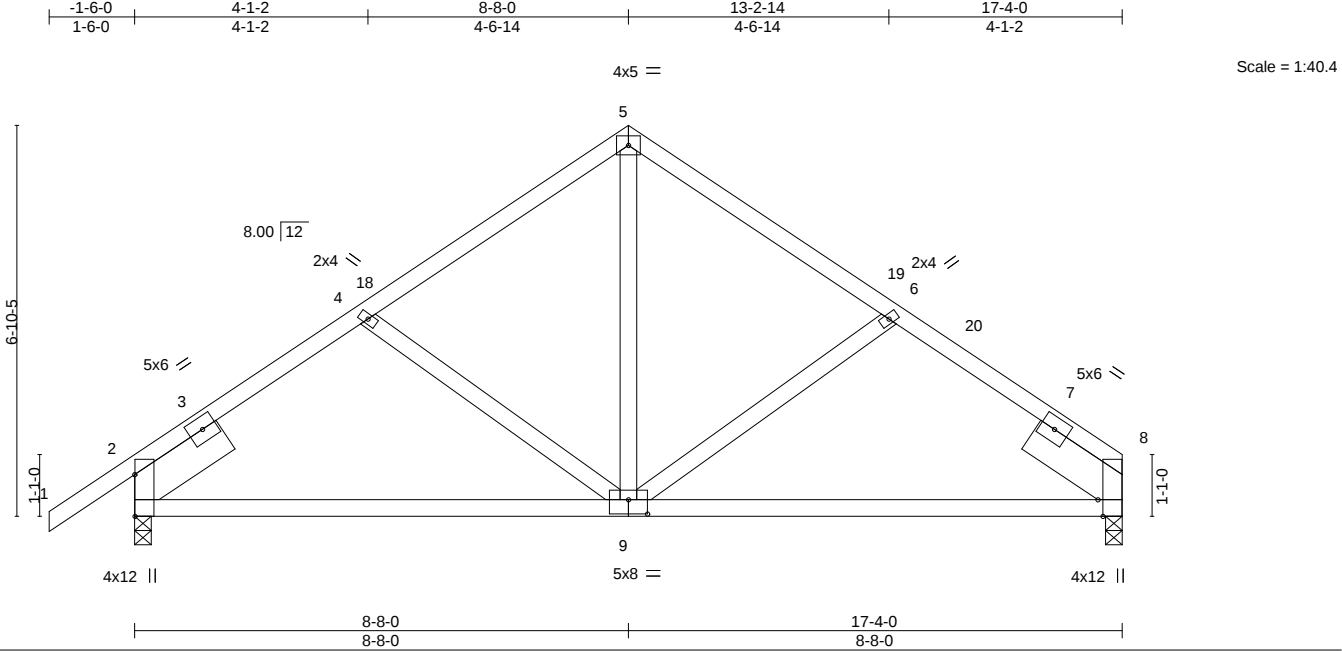


Plate Offsets (X,Y)--		[2:0-8-13,Edge], [8:0-3-8,Edge], [9:0-4-0,0-3-0]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	-0.07	9-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.14	9-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 98 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-10-10 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
SLIDER	Left 2x8 SP 2400F 2.0E 1-11-8, Right 2x8 SP 2400F 2.0E 1-11-8		

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=159(LC 9)
Max Uplift 8=153(LC 13), 2=191(LC 12)
Max Grav 8=689(LC 1), 2=787(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-796/209, 4-5=-649/193, 5-6=-651/206, 6-8=-802/226
BOT CHORD 2-9=-202/642, 8-9=-117/620
WEBS 5-9=-92/415

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 8-8-0, Zone2 8-8-0 to 12-10-15, Zone1 12-10-15 to 17-4-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=153, 2=191.

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Date:

August 4,2025

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LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x6 SP 240F 2.0E or 2x6 SP M 26	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
SLIDER	Left 2x4 SP No.3 4-8-1, Right 2x4 SP No.3 4-8-1		

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

TOP CHORD	1-2=6550/1454, 2-3=6586/1508, 3-4=6598/1511, 4-5=6734/1507
BOT CHORD	1-8=1664/7352, 7-8=1652/7289, 6-7=1556/7229, 5-6=1568/7287
WEBS	3-7=1505/6782, 4-7=2137/5899, 4-6=607/2909, 2-7=2210/591, 2-8=645/3152

- 1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1496, 5=1755.
- 9) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 16-5-4 to connect truss(es) to front face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.

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

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August 4, 2025

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.
4768181	T20	COMMON GIRDER	1	3	T38101208

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8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:27 2025 Page 2
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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-3=-60, 3-5=-60, 9-13=-20
Concentrated Loads (lb)
Vert: 6=-1340(F) 8=-1241(F) 17=-1241(F) 18=-1314(F) 19=-1340(F) 20=-1340(F) 21=-1340(F) 22=-1340(F) 23=-1341(F)

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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101209
4768181	T21	Common	2	1		

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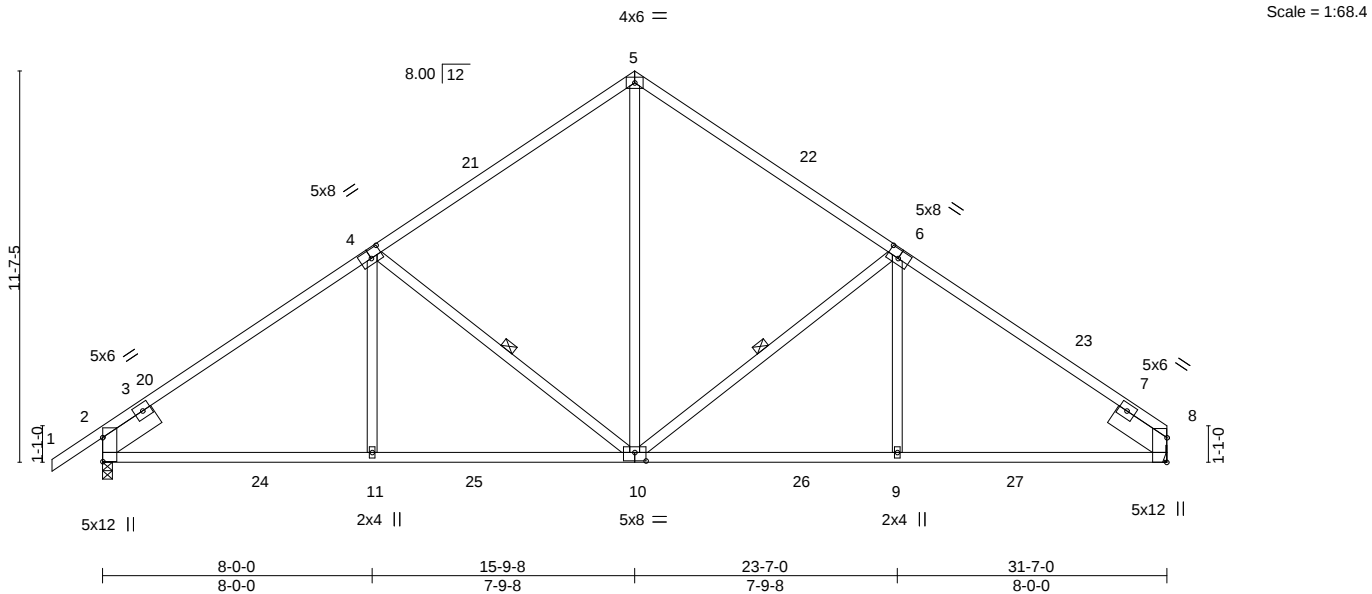


Plate Offsets (X,Y)-- [2:0-8-9,0-0-1], [4:0-4-0,0-3-0], [6:0-4-0,0-3-0], [8:0-8-12,Edge], [10:0-4-0,0-3-0]						
LOADING (psf)		SPACING-	2-0-0	CSI.	DEFL.	PLATES
TCLL	20.0	Plate Grip DOL	1.25	TC 0.97	in (loc) l/defl L/d	MT20
TCDL	10.0	Lumber DOL	1.25	BC 0.82	Vert(LL) -0.18 10-11 >999 240	GRIP
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.52	Vert(CT) -0.33 10-11 >999 180	244/190
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS	Horz(CT) 0.12 8 n/a n/a	
						Weight: 181 lb FT = 20%

LUMBER-		BRACING-
TOP CHORD	2x4 SP No.1 *Except* 1-4: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS 1 Row at midpt 4-10, 6-10
SLIDER	Left 2x8 SP 2400F 2.0E 1-11-8, Right 2x8 SP 2400F 2.0E 1-11-8	

REACTIONS. (size) 2=0-3-8, 8=Mechanical
Max Horz 2=277(LC 11)
Max Uplift 2=-321(LC 12), 8=-283(LC 13)
Max Grav 2=1578(LC 19), 8=1490(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1918/377, 4-5=-1400/372, 5-6=-1400/371, 6-8=-1923/380
BOT CHORD 2-11=-374/1675, 10-11=-374/1680, 9-10=-208/1500, 8-9=-209/1495
WEBS 4-11=0/370, 4-10=-676/319, 5-10=-214/1004, 6-10=-684/322, 6-9=0/369

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-7-14, Zone1 1-7-14 to 15-9-8, Zone2 15-9-8 to 20-3-1, Zone1 20-3-1 to 31-7-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=321, 8=283.

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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101210
4768181	T21G	Common Supported Gable	1	1	Job Reference (optional)	

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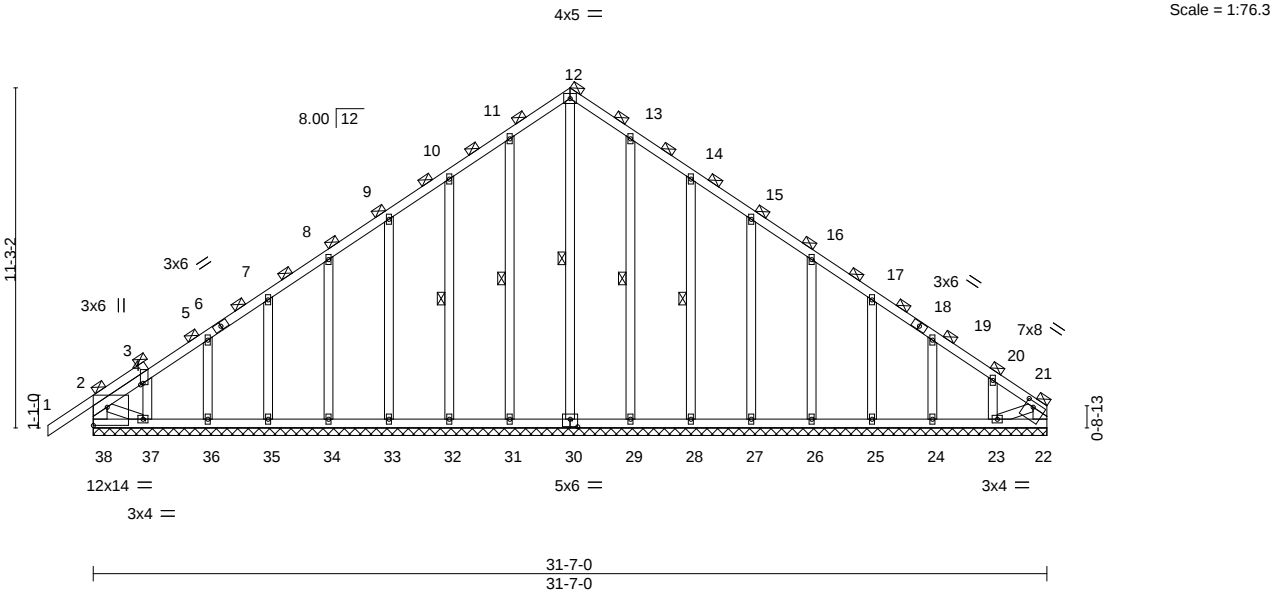


Plate Offsets (X,Y)-- [3:0-0-9,0-1-0], [21:0-3-4,0-2-0], [30:0-3-0,0-3-0], [38:Edge,0-7-4]						
LOADING (psf)		SPACING-	2-0-0	CSI.	DEFL.	PLATES
TCLL	20.0	Plate Grip DOL	1.25	TC 0.20	in (loc)	GRIP
TCDL	10.0	Lumber DOL	1.25	BC 0.05	l/defl	MT20
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.12	L/d	244/190
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S	n/r	
					n/a	Weight: 243 lb
						FT = 20%

LUMBER-		BRACING-
TOP CHORD	2x4 SP No.2	TOP CHORD
BOT CHORD	2x4 SP No.2	2-0-0 oc purlins (6-0-0 max.), except end verticals.
WEBS	2x6 SP No.2 *Except*	BOT CHORD
	2-37,21-23: 2x4 SP No.3	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
OTHERS	2x4 SP No.3	6-0-0 oc bracing: 37-38.
		WEBS
		1 Row at midpt
		12-30, 11-31, 10-32, 13-29, 14-28

REACTIONS. All bearings 31-7-0.

(lb) - Max Horz 38=293(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 22, 31, 32, 33, 34, 35, 36, 29, 28, 27, 26, 25, 24 except 38=-128(LC 8), 37=-157(LC 12), 23=-151(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 22, 30, 31, 32, 33, 34, 35, 36, 37, 29, 28, 27, 26, 25, 24, 23 except 38=279(LC 20)

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

TOP CHORD 2-38=-261/126

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 31, 32, 33, 34, 35, 36, 29, 28, 27, 26, 25, 24 except (jt=lb) 38=128, 37=157, 23=151.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101211
4768181	T22	Piggyback Base	6	1		

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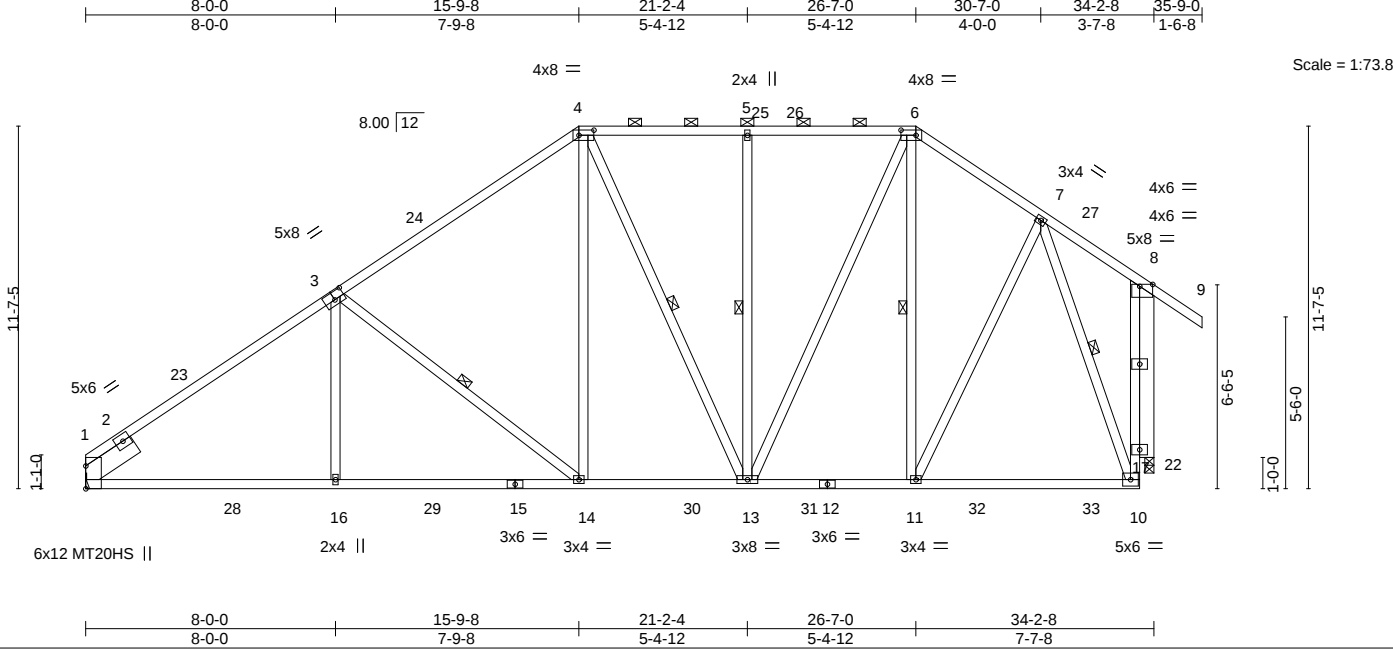


Plate Offsets (X,Y)--		[3:0-4-0,0-3-0], [4:0-5-12,0-2-0], [6:0-5-12,0-2-0], [8:0-5-0,0-0-12]								
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC 0.61		Vert(LL) -0.20 14-16 >999 240			MT20 244/190	
TCDL	10.0	Lumber DOL 1.25		BC 0.88		Vert(CT) -0.36 14-16 >999 180			MT20HS 187/143	
BCLL	0.0 *	Rep Stress Incr YES		WB 0.65		Horz(CT) -0.07 1 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 275 lb FT = 20%	

LUMBER-	BRACING-
TOP CHORD	TOP CHORD
2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31 *Except* 4-6,6-9: 2x4 SP No.2	Structural wood sheathing directly applied or 4-0-1 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-1 max.): 4-6.
BOT CHORD	BOT CHORD
2x4 SP No.2 *Except* 1-15: 2x4 SP No.1	Rigid ceiling directly applied or 8-2-2 oc bracing.
WEBS	WEBS
2x4 SP No.3 *Except* 4-13,6-13,8-10: 2x4 SP No.2	1 Row at midpt 3-14, 4-13, 5-13, 6-11, 7-10
OTHERS	
2x6 SP No.2	
SLIDER	
Left 2x8 SP 2400F 2.0E 1-11-8	

REACTIONS.	(size) 1=Mechanical, 22=0-3-8
	Max Horz 1=265(LC 12)
	Max Uplift 1=-331(LC 12), 22=-330(LC 13)
	Max Grav 1=1567(LC 19), 22=1652(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-3=-2087/454, 3-4=-1556/409, 4-5=-1128/360, 5-6=-1128/360, 6-7=-1064/306, 10-17=-213/1358, 8-17=-213/1358
BOT CHORD	1-16=-526/1761, 14-16=-526/1766, 13-14=-275/1219, 11-13=-128/836, 10-11=-91/554
WEBS	3-16=0/379, 3-14=-696/315, 4-14=-146/719, 4-13=-316/135, 5-13=-361/195, 6-13=-236/709, 6-11=-353/172, 7-11=-143/666, 7-10=-1287/246, 8-22=-1657/331

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-5-1, Zone1 3-5-1 to 15-9-8, Zone2 15-9-8 to 20-7-9, Zone1 20-7-9 to 26-7-0, Zone2 26-7-0 to 31-5-1, Zone1 31-5-1 to 35-9-0 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Bearing at joint(s) 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=331, 22=330.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

August 4,2025

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101212
4768181	T22G	GABLE	1	1	Job Reference (optional)	

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

8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:30 2025 Page 1

ID:7WKr8toudn35dxwKwBAfQtytHta-GOmaPPkhvRYKdm6xibEg2sp5ru3wTPuQyKWsvJysCCZ

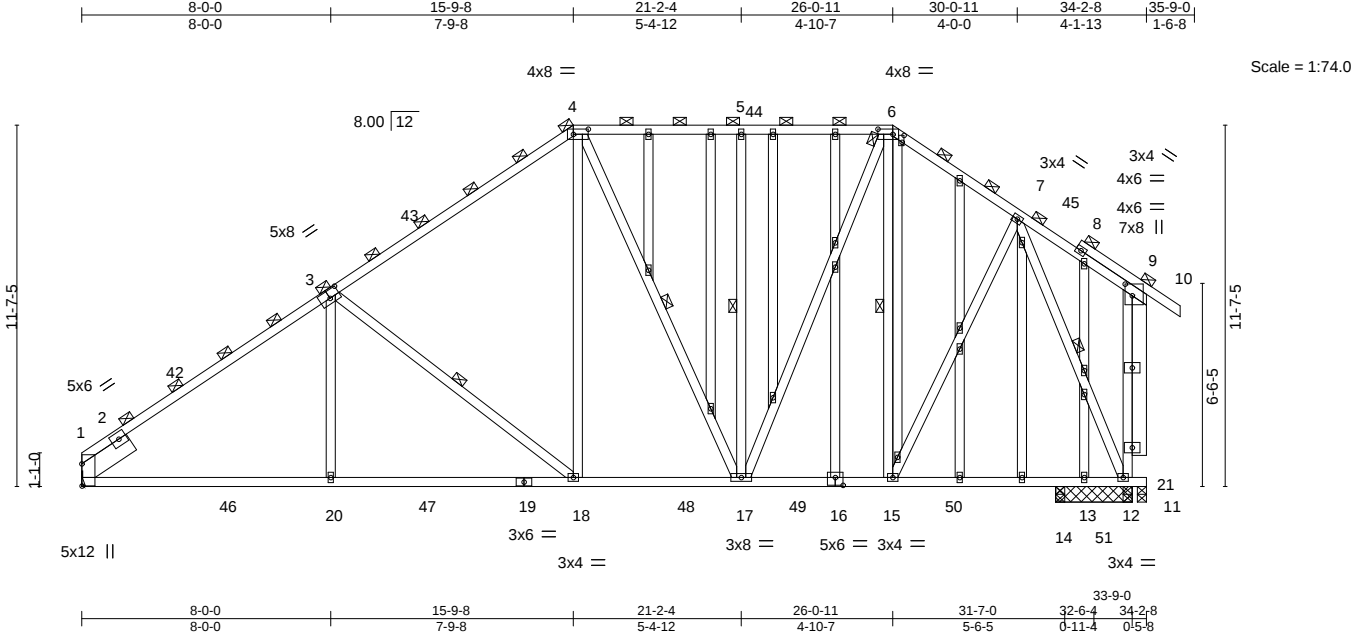


Plate Offsets (X,Y)--	[1:0-8-8,0-0-1], [3:0-4-0,0-3-0], [4:0-5-12,0-2-0], [6:0-2-11,0-0-12], [6:0-5-12,0-2-0], [9:0-4-8,0-2-12], [16:0-3-0,0-3-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.64	Vert(LL)	-0.19 18-20	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.85	Vert(CT)	-0.35 18-20	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.62	Horz(CT)	-0.06 1	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS					Weight: 379 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 3-4,1-3: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31	TOP CHORD 2-0-0 oc purlins (4-2-2 max.), except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 1-19: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 9-5-9 oc bracing: 1-20 8-11-11 oc bracing: 18-20.
WEBS 2x4 SP No.3 *Except* 4-17,6-17,9-12: 2x4 SP No.2	WEBS 1 Row at midpt 3-18, 4-17, 5-17, 6-15, 7-12
OTHERS 2x4 SP No.3 *Except* 9-21: 2x6 SP No.2	
SLIDER Left 2x8 SP 2400F 2.0E 1-11-8	

REACTIONS.	All bearings 2-5-8 except (jt=length) 1=Mechanical, 11=0-3-8, 14=0-3-8. (lb) - Max Horz 1=361(LC 11) Max Uplift All uplift 100 lb or less at joint(s) 11 except 1=339(LC 12), 12=340(LC 13), 13=230(LC 18) Max Grav All reactions 250 lb or less at joint(s) 11 except 1=1530(LC 19), 12=1542(LC 2), 12=1407(LC 1), 14=433(LC 18)
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FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-3=-2028/467, 3-4=-1493/423, 4-5=-1058/375, 5-6=-1058/375, 6-7=-1000/325, 9-12=-268/157
BOT CHORD	1-20=-437/1746, 18-20=-436/1752, 17-18=-314/1199, 15-17=-199/779, 14-15=-163/518, 13-14=-163/518, 12-13=-163/518
WEBS	3-20=0/382, 3-18=-702/314, 4-18=-145/719, 4-17=-356/127, 5-17=-343/186, 6-17=-223/735, 6-15=-366/183, 7-15=-167/621, 7-12=-1353/274

NOTES-	
1) Unbalanced roof live loads have been considered for this design.	
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-5-1, Zone1 3-5-1 to 15-9-8, Zone2 15-9-8 to 20-7-9, Zone1 20-7-9 to 26-0-11, Zone2 26-0-11 to 30-10-12, Zone1 30-10-12 to 35-3-8 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60	
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.	
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.	
5) Provide adequate drainage to prevent water ponding.	
6) All plates are 2x4 MT20 unless otherwise indicated.	
7) Gable studs spaced at 2-0-0 oc.	
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.	

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Date:

August 4,2025

Continued on page 2	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
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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.
4768181	T22G	GABLE	1	1	T38101212
Job Reference (optional)					

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

8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:30 2025 Page 2
ID:7WKr8toudn35dxwKwBAfQtytHta-GOmaPPkhvRYKdm6xibEg2sp5ru3wTPuQyKWsVJysCCZ

- NOTES-**
- 10) Refer to girder(s) for truss to truss connections.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 1=339, 12=340, 13=230.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Chesterfield, MO 63017
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August 4,2025

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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101213
4768181	T23	Piggyback Base	6	1		

Builders FirstSource (Lake City,FL),		Lake City, FL - 32055,		8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:31 2025 Page 1						
ID:7WKr8toudn35dxwKwBafQyHta-kakyclJgkhBFw8GImva4LCMIX5Cq7ZA_GP1mysCCY										
1-6-0	8-0-0	15-3-8	19-7-0	24-5-12	30-10-8	36-3-4	41-8-0	45-8-0	49-3-8	50-10-0
1-6-0	8-0-0	7-3-8	4-3-8	4-10-12	6-4-12	5-4-12	5-4-12	4-0-0	3-7-8	1-6-8

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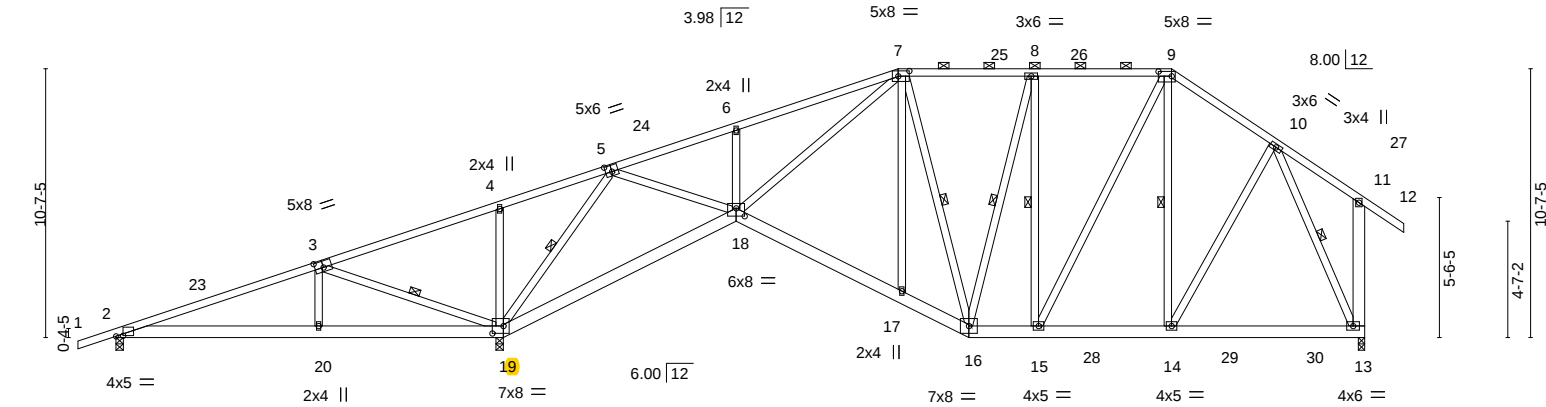


Plate Offsets (X,Y)--	[2:0-3-5,0-0-5], [3:0-4-0,0-3-0], [5:0-3-0,0-3-0], [7:0-5-4,0-2-8], [9:0-6-4,0-2-4], [18:0-4-0,0-3-12], [19:0-5-4,0-3-8]
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LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.84	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.34	Vert(LL) -0.10 18-19 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.69	Vert(CT) -0.21 18-19 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.10 13 n/a n/a		
	Code FBC2023/TP12014			Weight: 385 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-5-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 11-13: 2x6 SP No.2	WEBS 1 Row at midpt 3-19, 5-19, 7-16, 8-16, 8-15, 9-14, 10-13

REACTIONS. (size) 2=0-3-8, 19=0-3-8, 13=0-3-0
Max Horz 2=387(LC 11)
Max Uplift 2=-206(LC 8), 19=-966(LC 8), 13=-303(LC 13)
Max Grav 2=235(LC 25), 19=2848(LC 2), 13=1372(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-168/543, 3-4=-547/1626, 4-5=-494/1609, 5-6=-1321/292, 6-7=-1344/379, 7-8=-847/374, 8-9=-871/392, 9-10=-904/370, 11-13=-266/182
BOT CHORD 2-20=-563/79, 19-20=-574/77, 18-19=-533/353, 17-18=-273/1091, 16-17=-266/1078, 15-16=-216/871, 14-15=-144/702, 13-14=-144/477
WEBS 3-20=-185/358, 3-19=-1095/615, 4-19=-357/204, 5-19=-2021/532, 5-18=-400/1725, 6-18=-385/223, 7-18=-113/392, 7-16=-335/103, 8-15=-308/160, 9-15=-156/417, 10-14=-116/474, 10-13=-1136/234

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-6-0 to 3-5-2, Zone1 3-5-2 to 30-10-8, Zone2 30-10-8 to 37-10-3, Zone1 37-10-3 to 41-8-0, Zone2 41-8-0 to 48-7-11, Zone1 48-7-11 to 50-10-0 zone; end vertical right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=206, 19=966, 13=303.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

August 4,2025

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MiTek®

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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101214
4768181	T24	Piggyback Base	3	1		

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

8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:31 2025 Page 1

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Scale = 1:92.1

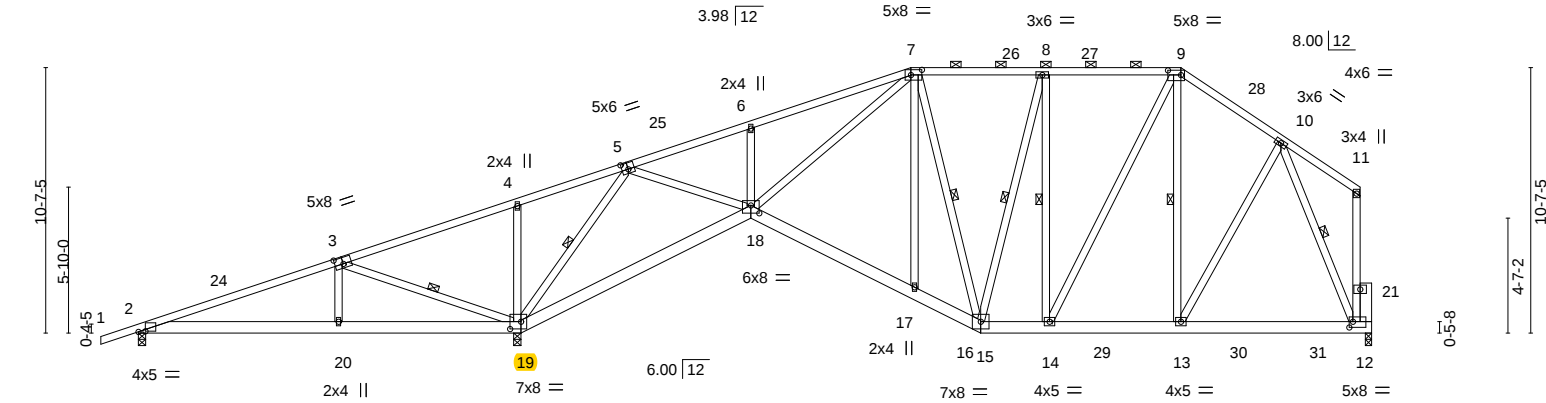


Plate Offsets (X,Y)--	[2:0-3-5,0-0-5], [3:0-4-0,0-3-0], [5:0-3-0,0-3-0], [7:0-5-4,0-2-8], [9:0-6-4,0-2-4], [12:0-1-12,0-2-12], [18:0-4-0,0-3-12], [19:0-5-4,0-3-8]
-----------------------	--

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.84	Vert(LL)	-0.10 18-19	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.34	Vert(CT)	-0.21 18-19	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.68	Horz(CT)	0.10 12	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS					Weight: 381 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-5-8 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 11-12: 2x4 SP No.2	WEBS 1 Row at midpt 3-19, 5-19, 7-16, 8-15, 8-14, 9-13, 10-12
OTHERS 2x6 SP No.2	

REACTIONS. (size) 2=0-3-8, 19=0-3-8, 12=0-3-0
Max Horz 2=381(LC 9)
Max Uplift 2=-201(LC 8), 19=-969(LC 8), 12=-249(LC 13)
Max Grav 2=236(LC 25), 19=2839(LC 2), 12=1261(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-184/556, 3-4=-586/1621, 4-5=-530/1604, 5-6=-1308/292, 6-7=-1331/379, 7-8=-839/372, 8-9=-859/391, 9-10=-883/370
BOT CHORD 2-20=-557/66, 19-20=-568/65, 18-19=-531/345, 17-18=-283/1080, 16-17=-279/1073, 15-16=-219/787, 14-15=-238/859, 13-14=-193/684, 12-13=-192/460
WEBS 3-20=-185/358, 3-19=-1095/615, 4-19=-357/204, 5-19=-2009/552, 5-18=-448/1714, 6-18=-385/223, 7-18=-120/388, 7-16=-350/113, 8-14=-326/165, 9-14=-158/424, 10-13=-118/485, 10-12=-1133/321

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 3-5-2, Zone1 3-5-2 to 30-10-8, Zone2 30-10-8 to 37-10-3, Zone1 37-10-3 to 41-8-0, Zone3 41-8-0 to 48-8-4 zone; end vertical right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=201, 19=969, 12=249.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Chesterfield, MO 63017
Date:

August 4,2025

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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101215
4768181	T25	Piggyback Base	1	1		

Builders FirstSource (Lake City,FL),		Lake City, FL - 32055,		8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:32 2025 Page 1					
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1-6-0	8-0-0	15-1-12	23-0-0	30-10-8	36-3-4	41-8-0	45-8-0	49-3-8	50-10-0
1-6-0	8-0-0	7-1-12	7-10-4	7-10-8	5-4-12	5-4-12	4-0-0	3-7-8	1-6-8

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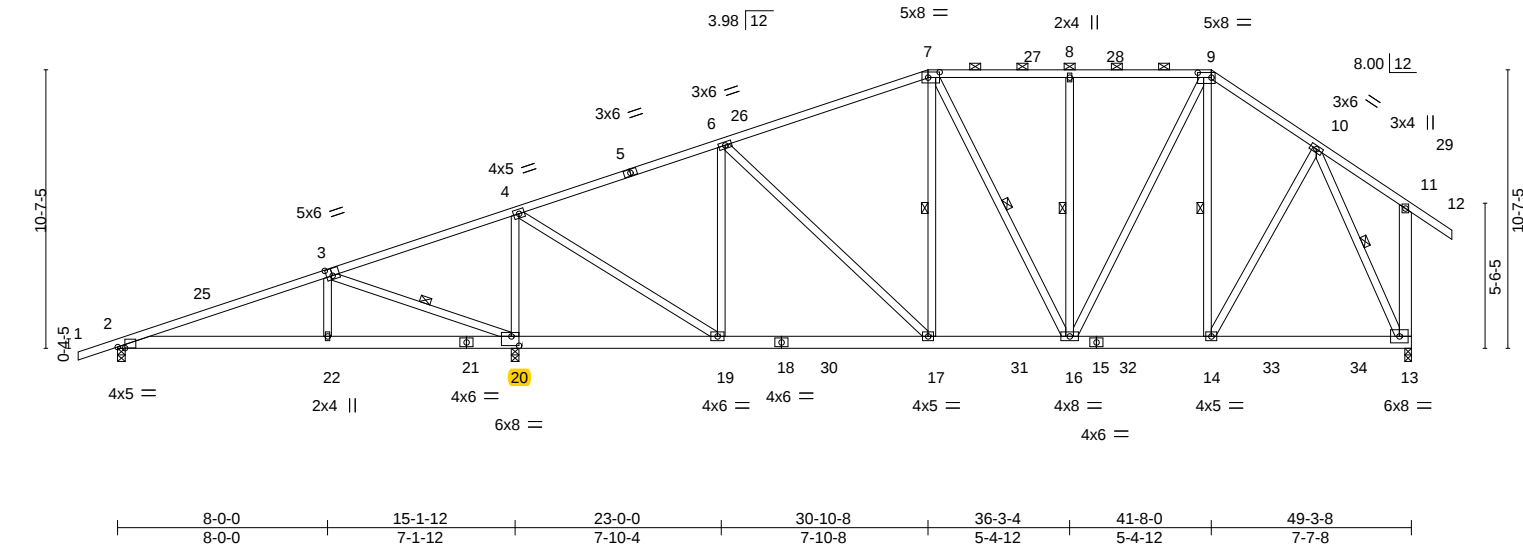


Plate Offsets (X,Y)-- [2:0-3-5,0-0-7], [3:0-2-12,0-3-4], [7:0-5-4,0-2-8], [9:0-6-4,0-2-4], [20:0-3-8,0-4-4]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	0.09 22-24 >999 240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.14 17-19 >999 180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.03 13 n/a n/a		
BCDL	10.0	Code FBC2023/TP12014		Matrix-MS				Weight: 372 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-2-2 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-0 max.): 7-9.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3 *Except* 11-13: 2x6 SP No.2	6-0-0 oc bracing: 19-20.
	WEBS 1 Row at midpt 3-20, 7-17, 7-16, 8-16, 9-14, 10-13

REACTIONS.	(size) 2=0-3-8, 20=0-3-8, 13=0-3-0
	Max Horz 2=387(LC 11)
	Max Uplift 2=-271(LC 8), 20=-865(LC 8), 13=-322(LC 13)
	Max Grav 2=501(LC 25), 20=2488(LC 2), 13=1553(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-483/314, 3-4=-328/684, 4-6=-1056/270, 6-7=-1259/374, 7-8=-1098/402, 8-9=-1098/402, 9-10=-1062/379, 11-13=-272/185
BOT CHORD	2-22=-356/403, 20-22=-349/391, 19-20=-597/364, 17-19=-220/947, 16-17=-261/1130, 14-16=-170/833, 13-14=-161/564
WEBS	3-22=-179/343, 3-20=-1043/587, 4-20=-1858/637, 4-19=-475/1831, 6-19=-709/316, 6-17=-67/292, 8-16=-367/185, 9-16=-188/596, 9-14=-258/163, 10-14=-135/575, 10-13=-1332/271

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 3-5-2, Zone1 3-5-2 to 30-10-8, Zone2 30-10-8 to 37-10-3, Zone1 37-10-3 to 41-8-0, Zone2 41-8-0 to 48-7-11, Zone1 48-7-11 to 50-10-0 zone; end vertical right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=271, 20=865, 13=322.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by Velez, Joaquin, 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.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

August 4,2025

Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101216
4768181	T25G	GABLE	1	1		

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

8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:33 2025 Page 1

ID:7Wkr8toudn35dxwKwBAfQtytHta-hzRi1QnZBMxvUErWNjoNf/Ra95BUggHselliW6eysCCW

1-6-0 8-0-0 15-1-12 23-0-0 30-10-8 36-3-4 41-1-11 45-1-11 49-3-8 50-10-0
1-6-0 8-0-0 7-1-12 7-10-4 7-10-8 5-4-12 4-10-7 4-0-0 4-1-13 1-6-8

Scale = 1:92.3

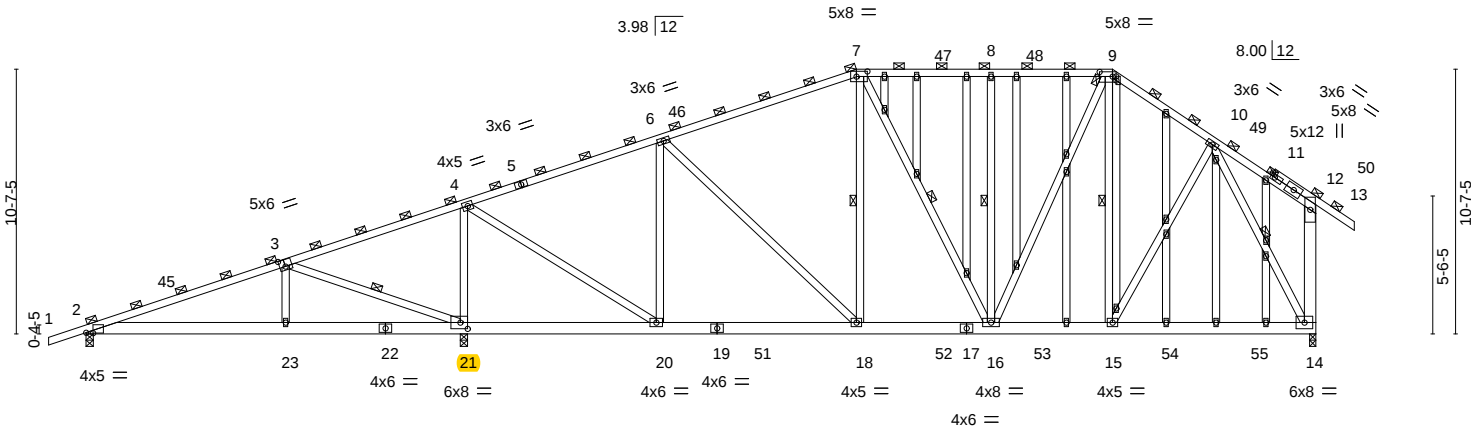


Plate Offsets (X,Y)--	[2:0-3-5,0-0-3], [3:0-2-12,0-3-4], [7:0-5-4,0-2-8], [9:0-6-4,0-2-4], [9:0-2-0,0-0-1], [21:0-3-8,0-3-0]
-----------------------	--

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.76	Vert(LL) 0.09	23-44	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25		BC 0.41	Vert(CT) -0.14	18-20	>999	180		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.90	Horz(CT) 0.03	14	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 467 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (4-2-2 max.), except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3 *Except*	6-0-0 oc bracing: 20-21.
12-14: 2x6 SP No.2	WEBS 1 Row at midpt 3-21, 7-18, 7-16, 8-16, 9-15, 10-14
OTHERS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 21=0-3-8, 14=0-3-0
Max Horz 2=384(LC 11)
Max Uplift 2=271(LC 8), 21=863(LC 8), 14=322(LC 13)
Max Grav 2=501(LC 25), 21=2488(LC 2), 14=1552(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-495/315, 3-4=-328/682, 4-6=-1057/268, 6-7=-1260/374, 7-8=-1095/403,
8-9=-1095/403, 9-10=-1111/388, 12-14=-305/194
BOT CHORD 2-23=-360/417, 21-23=-363/422, 20-21=-594/360, 18-20=-215/947, 16-18=-253/1131,
15-16=-179/873, 14-15=-177/641
WEBS 3-23=-176/340, 3-21=-1072/601, 4-21=-1862/639, 4-20=-471/1826, 6-20=-708/314,
6-18=-69/292, 8-16=-348/176, 9-16=-185/549, 10-15=-125/508, 10-14=-1322/266

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 3-5-2, Zone1 3-5-2 to 30-10-8, Zone2 30-10-8 to 37-10-3, Zone1 37-10-3 to 41-1-11, Zone2 41-1-11 to 48-1-5, Zone1 48-1-5 to 50-10-0 zone; end vertical right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=271, 21=863, 14=322.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by Velez, Joaquin, 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.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
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Chesterfield, MO 63017
Date:

August 4,2025

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

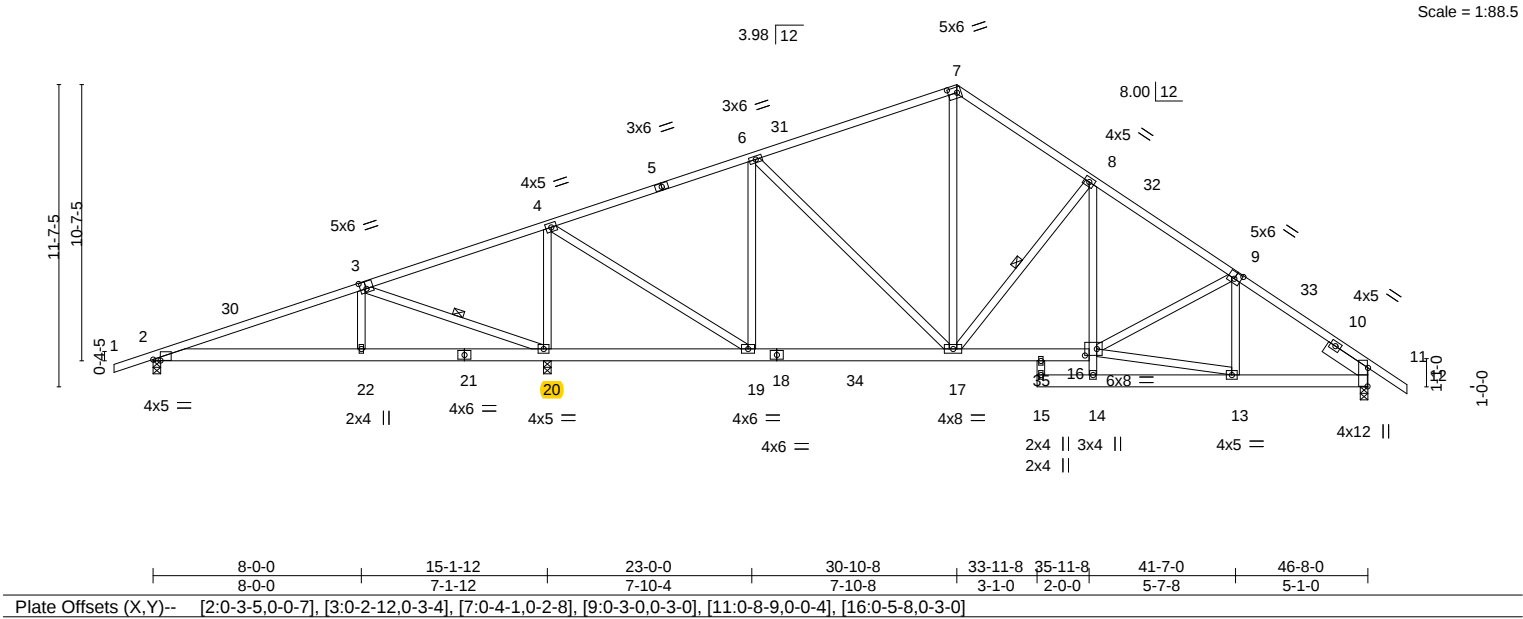
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	HUMPHREY RES.	T38101217
4768181	T26	Roof Special	4	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:34 2025 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-9975EmnByf3m6OQjxRJcCizlEVT9P8d0tyU3e5ysCCV
1-6-0 8-0-0 15-1-12 23-0-0 30-10-8 35-11-8 41-7-0 46-8-0 48-2-0
1-6-0 8-0-0 7-1-12 7-10-4 7-10-8 5-1-0 5-7-8 5-1-0 1-6-0



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.74	Vert(LL)	-0.10	15	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.70	Vert(CT)	-0.17	15	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.89	Horz(CT)	0.05	11	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 322 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-9-10 oc purlins.
BOT CHORD 2x6 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-14: 2x4 SP No.3	6-0-0 oc bracing: 19-20.
WEBS 2x4 SP No.3	10-0-0 oc bracing: 14-16
SLIDER Right 2x6 SP No.2 1-11-8	WEBS 1 Row at midpt 3-20, 8-17

REACTIONS.	(size)	2=0-3-8, 11=0-3-8, 20=0-3-8
Max Horz	2=322(LC 11)	
Max Uplift	2=272(LC 8), 11=317(LC 13), 20=777(LC 8)	
Max Grav	2=482(LC 25), 11=1478(LC 20), 20=2482(LC 2)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-424/276, 3-4=-297/856, 4-6=-947/259, 6-7=-1142/336, 7-8=-1258/341, 8-9=-1817/375, 9-11=-1767/372
BOT CHORD	2-22=-371/347, 20-22=-364/335, 19-20=-761/369, 17-19=-89/807, 16-17=-100/1401, 14-16=0/288, 8-16=-62/606, 11-13=-195/1386
WEBS	3-22=-184/343, 3-20=-1044/588, 4-20=-1849/551, 4-19=-370/1820, 6-19=-713/258, 6-17=-54/299, 7-17=-170/717, 8-17=-834/286, 13-16=-170/1256, 9-13=-274/80

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 3-2-0, Zone1 3-2-0 to 30-10-8, Zone2 30-10-8 to 37-5-11, Zone1 37-5-11 to 48-2-0 zone; end vertical right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=272, 11=317, 20=777.

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Chesterfield, MO 63017
Date:

August 4,2025

Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101218
4768181	T27	MONO TRUSS	15	1	Job Reference (optional)	

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

8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:34 2025 Page 1
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Scale = 1:14.5

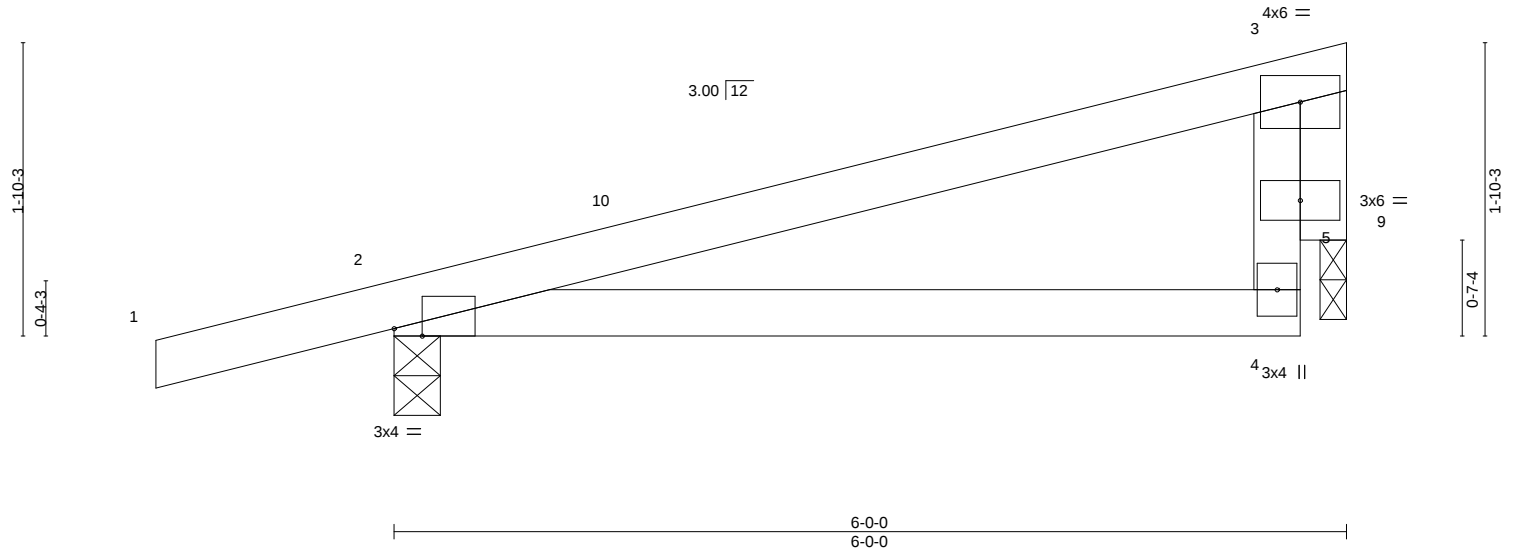


Plate Offsets (X,Y)--		[2:0-2-2,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.39
TCDL 10.0	Lumber DOL	1.25	BC 0.24
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MR
DEFL.	in	(loc)	I/defl
Vert(LL)	0.03	4-8	>999
Vert(CT)	-0.04	4-8	>999
Horz(CT)	0.00	2	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 23 lb		FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 9=0-2-0
Max Horz 2=73(LC 8)
Max Uplift 2=-192(LC 8), 9=-110(LC 8)
Max Grav 2=337(LC 1), 9=198(LC 1)

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

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 5-6-12 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=192, 9=110.

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

August 4,2025

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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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Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:35 2025 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-dLZTS6opjzBdkX?vW8qrlwW12vwp8mJ95cEdAXysCCU
-1-6-0 6-0-0
1-6-0 6-0-0

Architectural section drawing of a building with a sloped roof. The drawing includes dimensions and labels for different areas:

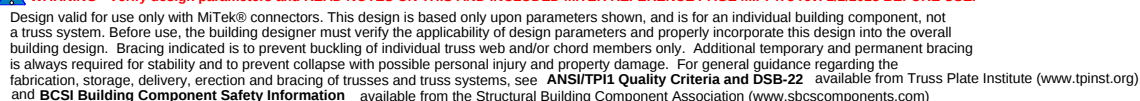
- Dimensions:**
 - Vertical dimensions on the left: 1-6.9 (total height) and 0-4.3 (height of the lower section).
 - Horizontal dimensions at the bottom: 6-0-0 (total length) and 6-0-0 (length of the lower section).
 - Other horizontal dimensions: 3.00 (width of the lower section), 3x6 (width of the upper section), 4x6 (width of the upper section), 3x4 (width of the lower section), 4x8 (width of the lower section), 3x6 (width of the upper section), and 2x4 (width of the upper section).
- Labels:**
 - 1: Label for the lower section.
 - 2: Label for the upper section.
 - 3: Label for the lower section.
 - 4: Label for the upper section.
 - 5: Label for the upper section.
 - 6: Label for the lower section.
 - 7: Label for the lower section.
 - 8: Label for the lower section.
- Structural Elements:**
 - A sloped roof structure.
 - A horizontal line representing the ground level.
 - A cross-hatched area representing a foundation or base.
 - Various rectangular shapes representing walls, columns, and openings.

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2		
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3		

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2'-0" oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=124, 6=239, 7=134.

August 4, 2025



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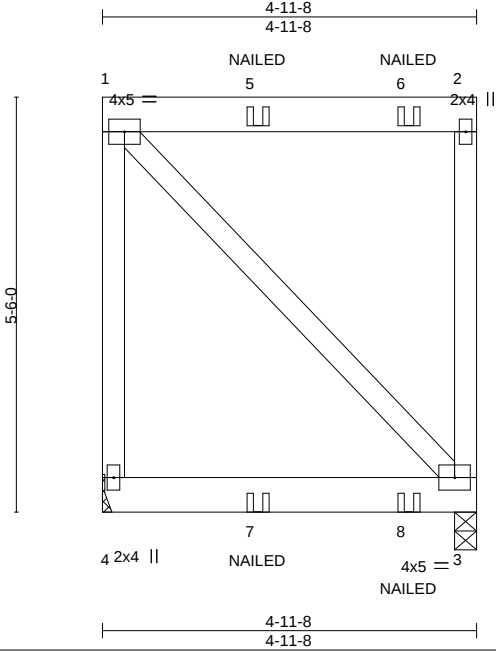
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.
4768181	TG01	Flat Girder	2	1	T38101220

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

8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:35 2025 Page 1

ID:7Wkr8toudn35dxwKwBAfQtytHta-dLZTS6opjzBdkX?vV8qrlwWx2vw78op95cEdAXysCCU



Scale = 1:30.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.67	Vert(LL)	-0.01	3-4	>999	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.21	Vert(CT)	-0.02	3-4	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP						Weight: 46 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-8 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 4=Mechanical, 3=0-3-8
Max Uplift 4=-232(LC 4), 3=-301(LC 4)
Max Grav 4=548(LC 1), 3=627(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-481/225, 2-3=-528/279

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=232, 3=301.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 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

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-180(B=-120), 3-4=-20

Concentrated Loads (lb)

Vert: 5=-80(F) 6=-88(F) 7=-27(F) 8=-29(F)

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

August 4,2025

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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101221
4768181	V01	GABLE	1	1	Job Reference (optional)	

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

8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:36 2025 Page 1

ID:7WKr8toudn35dxwKwBAfQtytHta-5Y7rfSpSUHJULha52sL4H73EUJHxBzIKGzAjzysCCT

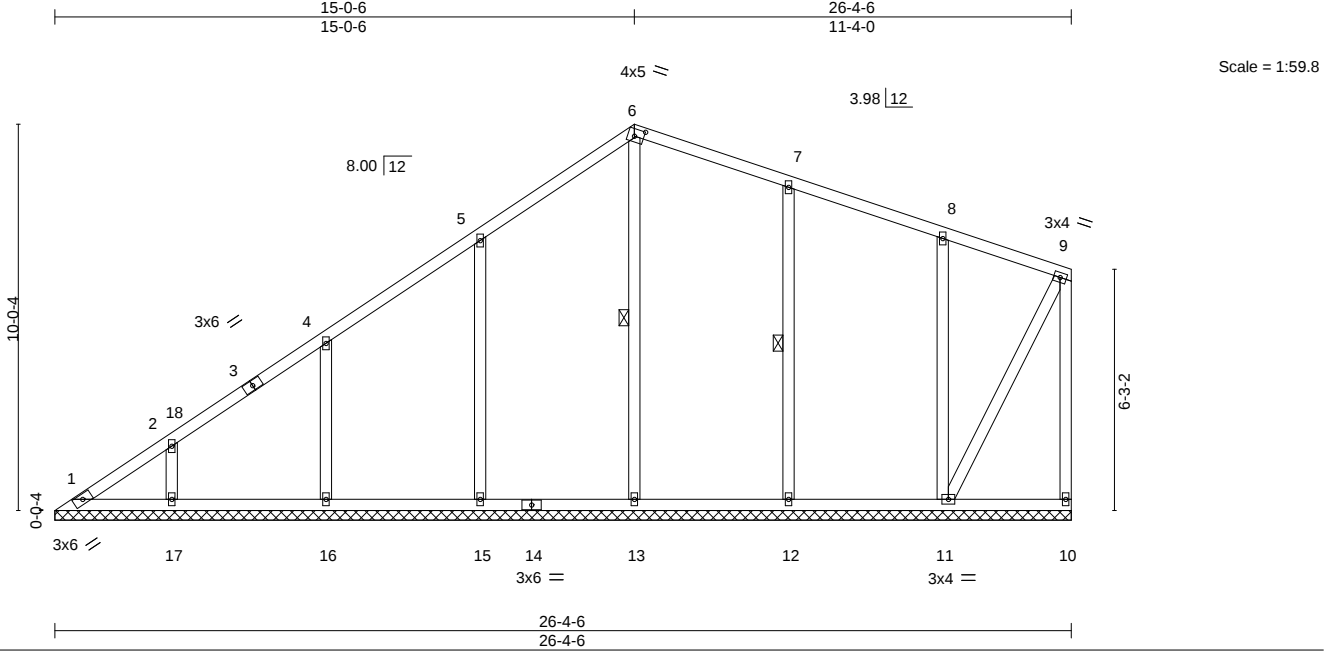


Plate Offsets (X,Y)--		[6:0-2-15,0-2-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.18
TCDL 10.0	Lumber DOL	1.25	BC 0.17
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.26
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) 0.00 10 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 156 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6'-13, 7'-12
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 26'-4".
(lb) - Max Horz 1=294(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 10, 1 except 15=180(LC 12), 16=165(LC 12), 17=152(LC 12), 12=124(LC 9), 11=149(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 10, 1 except 13=393(LC 19), 15=482(LC 19), 16=434(LC 19), 17=361(LC 19), 12=423(LC 28), 11=355(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=310/196
WEBS 5-15=278/204, 4-16=261/190, 7-12=262/148

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-12 to 3-5-12, Zone1 3-5-12 to 15-0-6, Zone2 15-0-6 to 19-0-6, Zone1 19-0-6 to 26-2-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - 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'-6" tall by 2'-0" wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 1 except (jt=lb) 15=180, 16=165, 17=152, 12=124, 11=149.

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Date:

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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101222
4768181	V02	GABLE	1	1	Job Reference (optional)	

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

8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:36 2025 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-5Y7rfSpSUHJULha52sL4H73DFJHytC8IKGzAjzysCCT

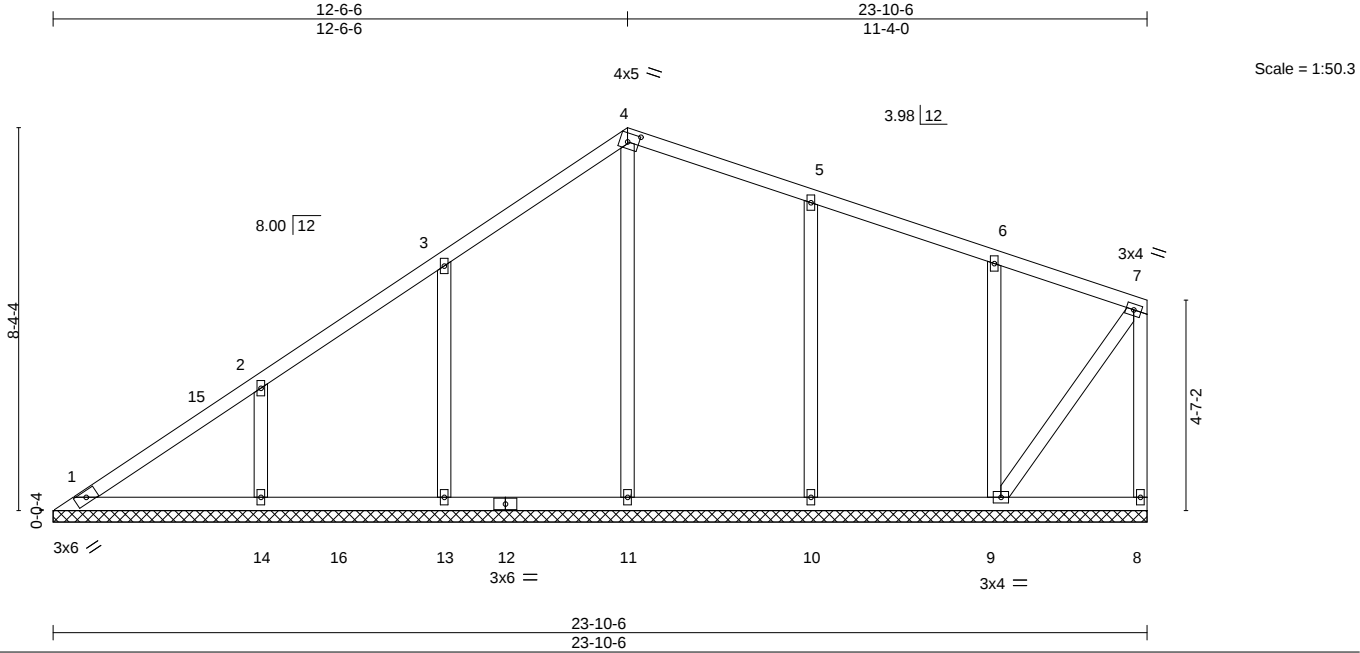


Plate Offsets (X,Y)-- [4:0-2-15,0-2-4]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.		PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	n/a - n/a	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	n/a - n/a		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.00 8 n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S				Weight: 129 lb FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

REACTIONS. All bearings 23-10-6.
(lb) - Max Horz 1=229(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 8 except 13=175(LC 12), 14=185(LC 12), 10=124(LC 9), 9=150(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 1, 8 except 11=389(LC 19), 13=463(LC 19), 14=460(LC 19), 10=422(LC 28), 9=352(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-13=272/200, 2-14=286/204, 5-10=262/148

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-12 to 3-5-12, Zone1 3-5-12 to 12-6-6, Zone2 12-6-6 to 16-6-6, Zone1 16-6-6 to 23-8-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8 except (jt=lb) 13=175, 14=185, 10=124, 9=150.

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

August 4,2025

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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101223
4768181	V03	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:37 2025 Page 1
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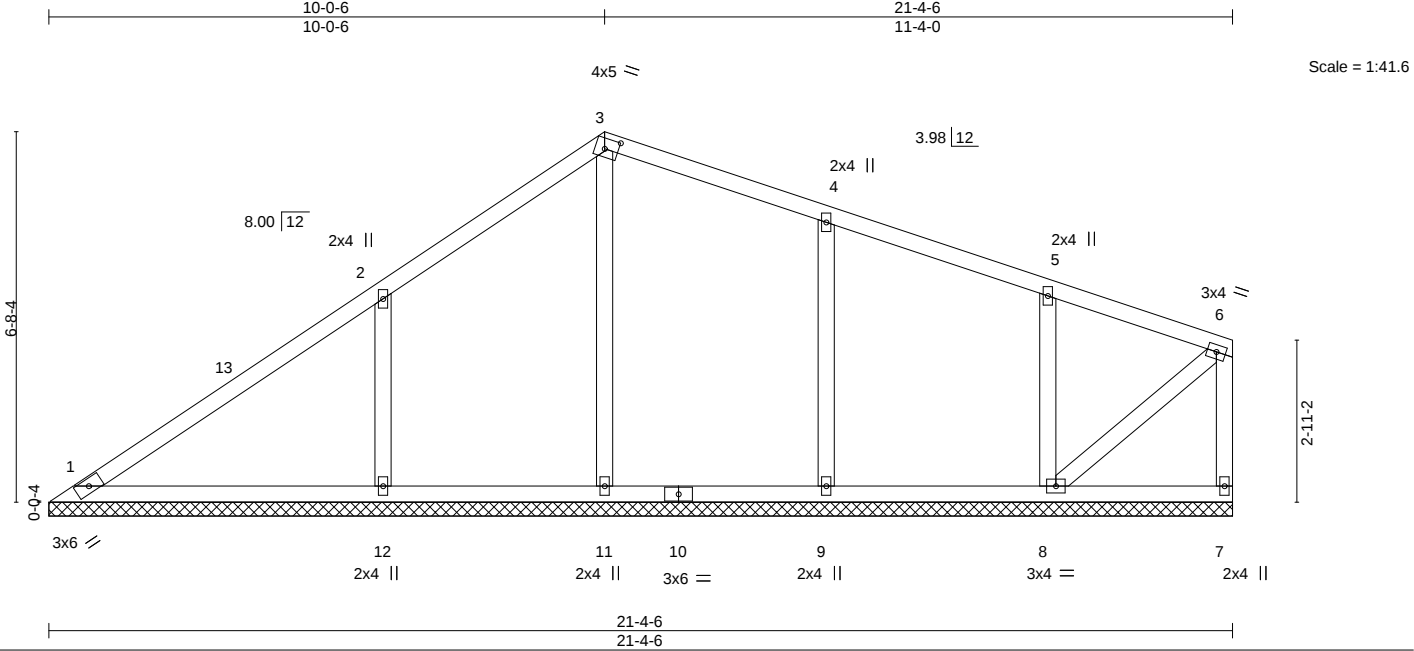


Plate Offsets (X,Y)--		[3:0-2-15,0-2-4]								
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	n/a - n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	n/a - n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00 8 n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S					Weight: 102 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 21-4-6.
(lb) - Max Horz 1=165(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=250(LC 12), 9=126(LC 9), 8=143(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=334(LC 19), 12=619(LC 19), 9=430(LC 28), 8=352(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-12=-379/271, 4-9=-265/150

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-12 to 3-5-12, Zone1 3-5-12 to 10-0-6, Zone2 10-0-6 to 14-0-6, Zone1 14-0-6 to 21-2-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 requires continuous bottom chord bearing.
 - 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'-6" tall by 2'-0" wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 12=250, 9=126, 8=143.

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Chesterfield, MO 63017
Date:

August 4,2025

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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101224
4768181	V04	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:37 2025 Page 1
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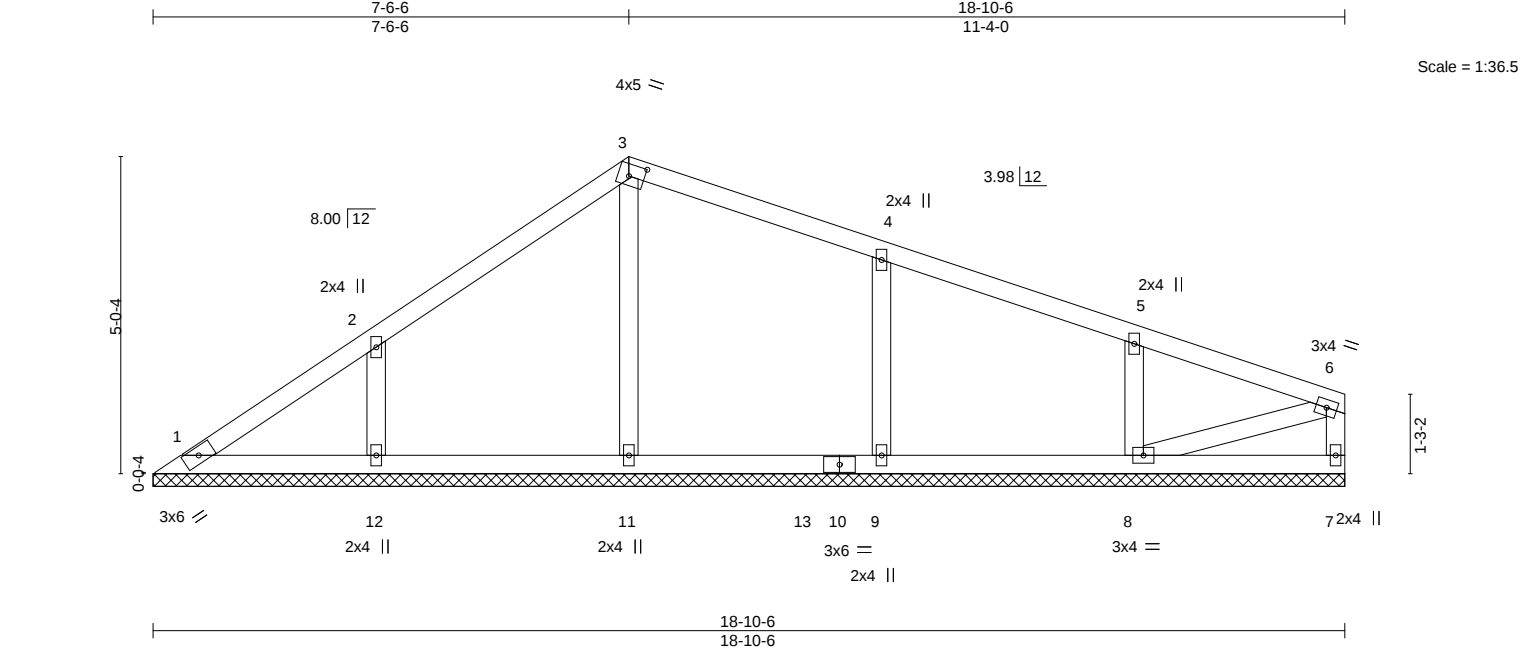


Plate Offsets (X,Y)-- [3:0-2-15,0-2-4]											
LOADING (psf)		SPACING-		CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	8	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							
										Weight: 81 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6'-0'-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10'-0'-0 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

REACTIONS. All bearings 18-10-6.
(lb) - Max Horz 1=-122(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 11 except 12=-178(LC 12), 9=-124(LC 9), 8=-124(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=353(LC 19), 12=408(LC 19), 9=377(LC 28), 8=323(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-12=-273/206, 4-9=-263/151

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-12 to 3-6-6, Zone1 3-6-6 to 7-6-6, Zone2 7-6-6 to 11-6-6, Zone1 11-6-6 to 18-8-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 requires continuous bottom chord bearing.
 - 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'-6'-0 tall by 2'-0'-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 11 except (jt=lb) 12=178, 9=124, 8=124.

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Date:

August 4,2025

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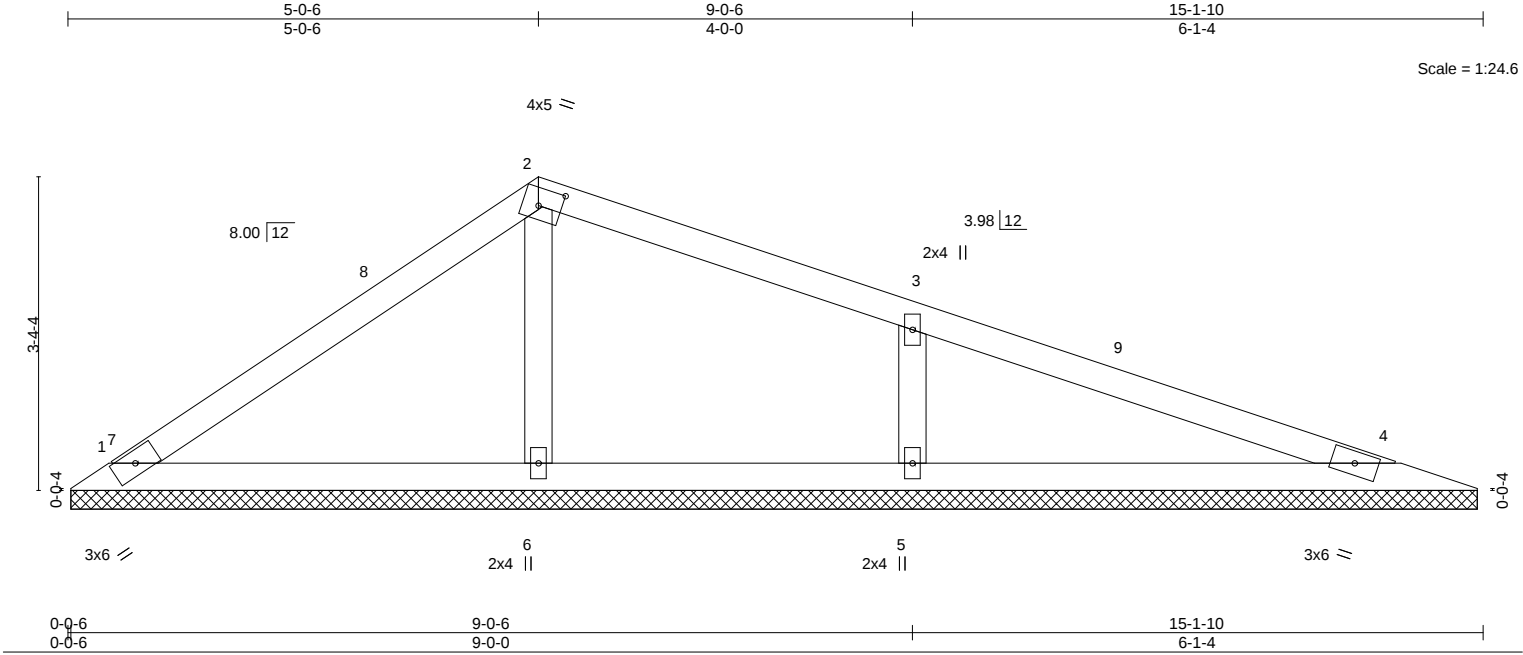
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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101225
4768181	V05	Valley	1	1	Job Reference (optional)	

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

8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:38 2025 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-1wFb48ri0uZCb7kUAGOYMY8Y_6ylL9bbnaSHnsysCCR



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	n/a	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	n/a				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							
								Weight: 51 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6'-0" oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10'-0" oc bracing.
OTHERS	2x4 SP No.3		

REACTIONS. All bearings 15'-0-8.
(lb) - Max Horz 1=-89(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 4, 6 except 5=-159(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 1, 4 except 6=316(LC 1), 5=442(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-5=-330/190

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-12 to 3-5-12, Zone1 3-5-12 to 5-0-6, Zone2 5-0-6 to 9-0-6, Zone1 9-0-6 to 14-2-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 requires continuous bottom chord bearing.
 - 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'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4, 6 except (jt=lb) 5=-159.

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	HUMPHREY RES.	T38101226
4768181	V06	Valley	1	1	Job Reference (optional)	

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

8.830 s Jul 24 2025 MiTek Industries, Inc. Fri Aug 1 13:41:38 2025 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-1wFb48ri0uZCb?kUAGOYMY8Zt6zyL8UbnaSHnsysCCR

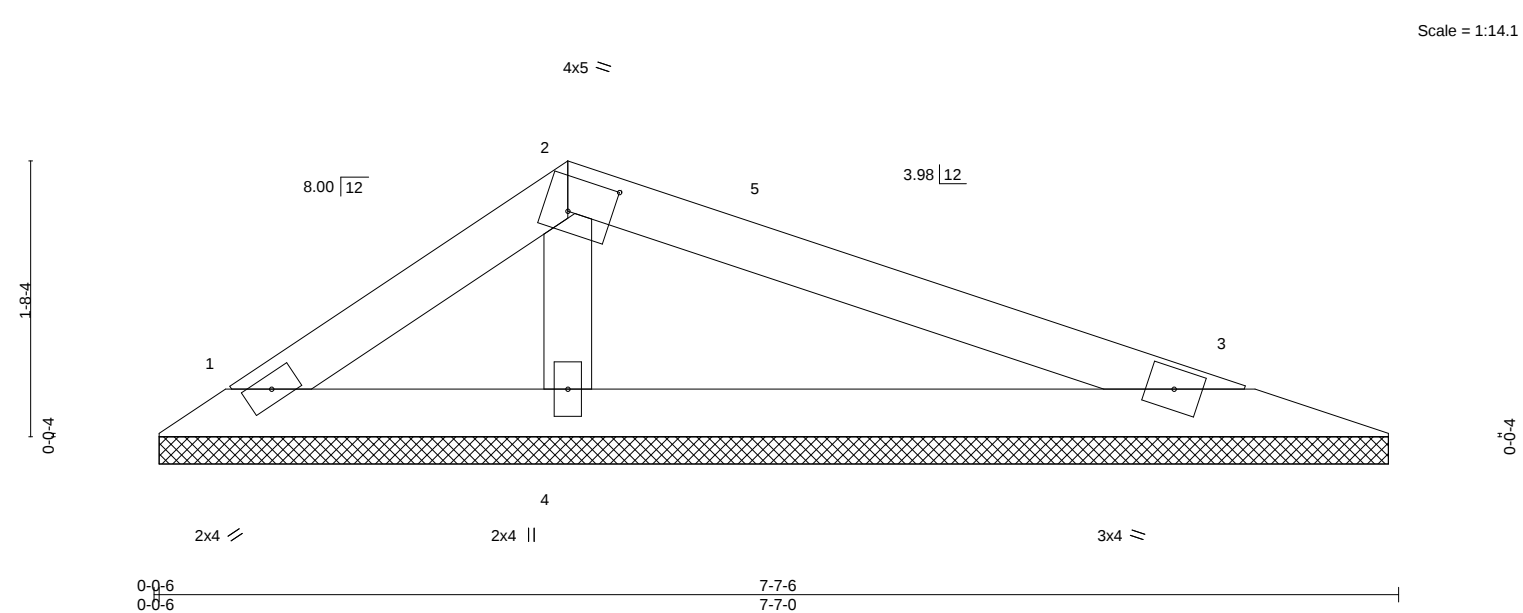


Plate Offsets (X,Y)--		[2:0-3-3,0-2-8]									
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC 0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S						Weight: 23 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3		

REACTIONS. (size) 1=7-6-4, 3=7-6-4, 4=7-6-4
Max Horz 1=-40(LC 8)
Max Uplift 1=-23(LC 12), 3=-50(LC 9), 4=-50(LC 9)
Max Grav 1=63(LC 25), 3=151(LC 1), 4=290(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 requires continuous bottom chord bearing.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 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 Velez, Joaquin, 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.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

August 4,2025

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

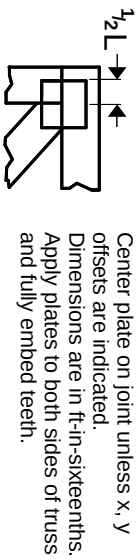
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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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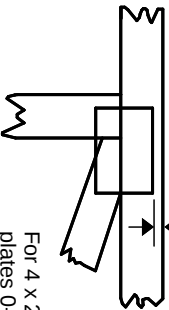
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Symbols

PLATE LOCATION AND ORIENTATION



0- $\frac{1}{16}$ "



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 MITek software or upon request.

PLATE SIZE

4 X 4

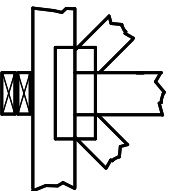
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

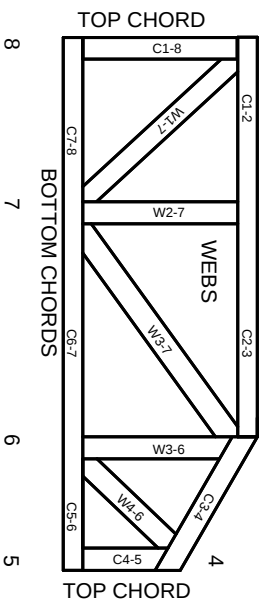
Industry Standards:

ANSI/TP1.1: 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

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

1 2 3 Joint ID typ.



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. 1/12/2023

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.