



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

RE: 3574425 - IC CONST - URRUTIA RES.

MiTek USA, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Site Information:

Customer Info: IC CONSTRUCTION Project Name: Urrutia Res. Model: Custom
Lot/Block: 1 Subdivision: Lakewood Estates
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: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: 55.0 psf

This package includes 35 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	T30878293	EJ01	6/23/23	15	T30878307	T07	6/23/23
2	T30878294	EJ02	6/23/23	16	T30878308	T07G	6/23/23
3	T30878295	PB01	6/23/23	17	T30878309	T08G	6/23/23
4	T30878296	PB01G	6/23/23	18	T30878310	T09	6/23/23
5	T30878297	PB02	6/23/23	19	T30878311	T09G	6/23/23
6	T30878298	PB02G	6/23/23	20	T30878312	T10	6/23/23
7	T30878299	T01	6/23/23	21	T30878313	T10G	6/23/23
8	T30878300	T01G	6/23/23	22	T30878314	T11	6/23/23
9	T30878301	T02	6/23/23	23	T30878315	T12	6/23/23
10	T30878302	T03	6/23/23	24	T30878316	T13	6/23/23
11	T30878303	T04	6/23/23	25	T30878317	T17	6/23/23
12	T30878304	T04G	6/23/23	26	T30878318	T17G	6/23/23
13	T30878305	T05	6/23/23	27	T30878319	T18	6/23/23
14	T30878306	T06	6/23/23	28	T30878320	T19	6/23/23



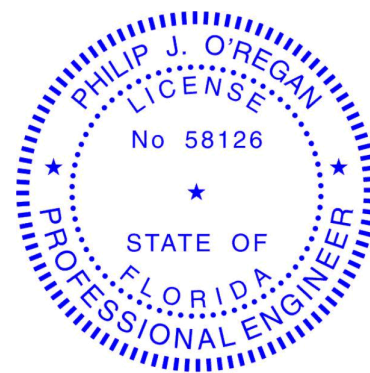
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The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision based on the parameters
provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: O'Regan, Philip

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



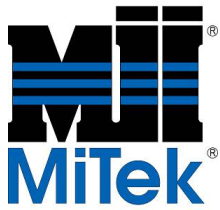
Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

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

June 23, 2023

O'Regan, Philip

1 of 2



RE: 3574425 - IC CONST - URRUTIA RES.

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

Site Information:

Customer Info: IC CONSTRUCTION Project Name: Urrutia Res. Model: Custom
Lot/Block: 1 Subdivision: Lakewood Estates
Address: TBD, TBD
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
29	T30878321	TF01	6/23/23
30	T30878322	TF01G	6/23/23
31	T30878323	TF02	6/23/23
32	T30878324	TF03	6/23/23
33	T30878325	TF04	6/23/23
34	T30878326	TF05	6/23/23
35	T30878327	TG01	6/23/23

Builders FirstSource, Lake City, FL 32055 8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:03 2023 Page 1
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LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 7-6-8 oc bracing.
BOT CHORD	2x4 SP No.2		
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3	BOT CHORD	

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

TOP CHORD	2-3=-222/252, 4-5=-255/151, 3-5=-255/151
BOT CHORD	2-4=-299/188
WEBS	3-9=-279/437

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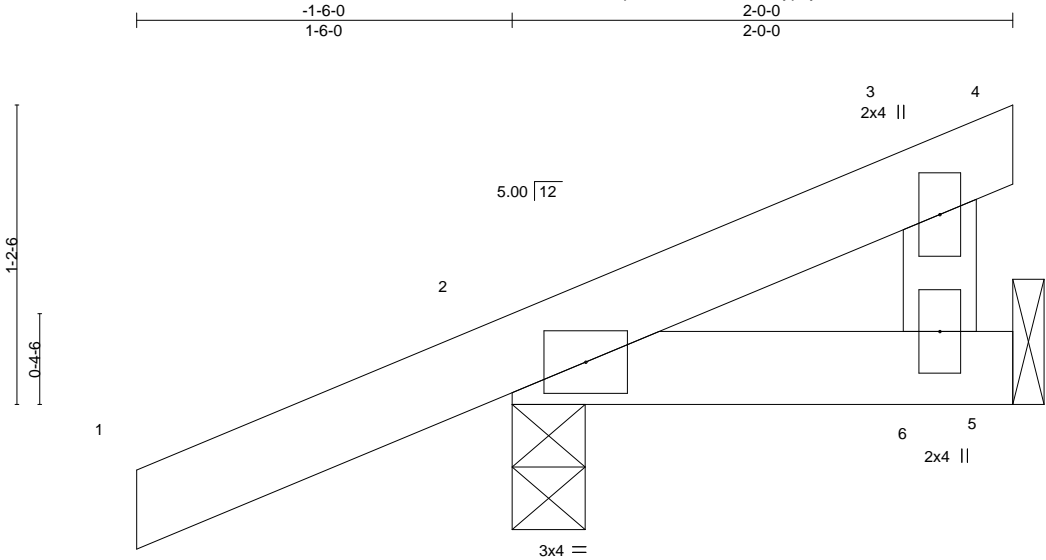
June 23, 2023

Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.	T30878294
3574425	EJ02	Jack-Open	7	1	Job Reference (optional)	

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Scale = 1:9.2

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 0.13	Vert(LL)	-0.00	9	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	-0.00	9	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MP						Weight: 10 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-0-0 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		

REACTIONS. (size) 2=0-3-8, 5=Mechanical
Max Horz 2=46(LC 12)
Max Uplift 2=-66(LC 8), 5=-11(LC 12)
Max Grav 2=184(LC 1), 5=46(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-16; 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 Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 2 and 11 lb uplift at joint 5.

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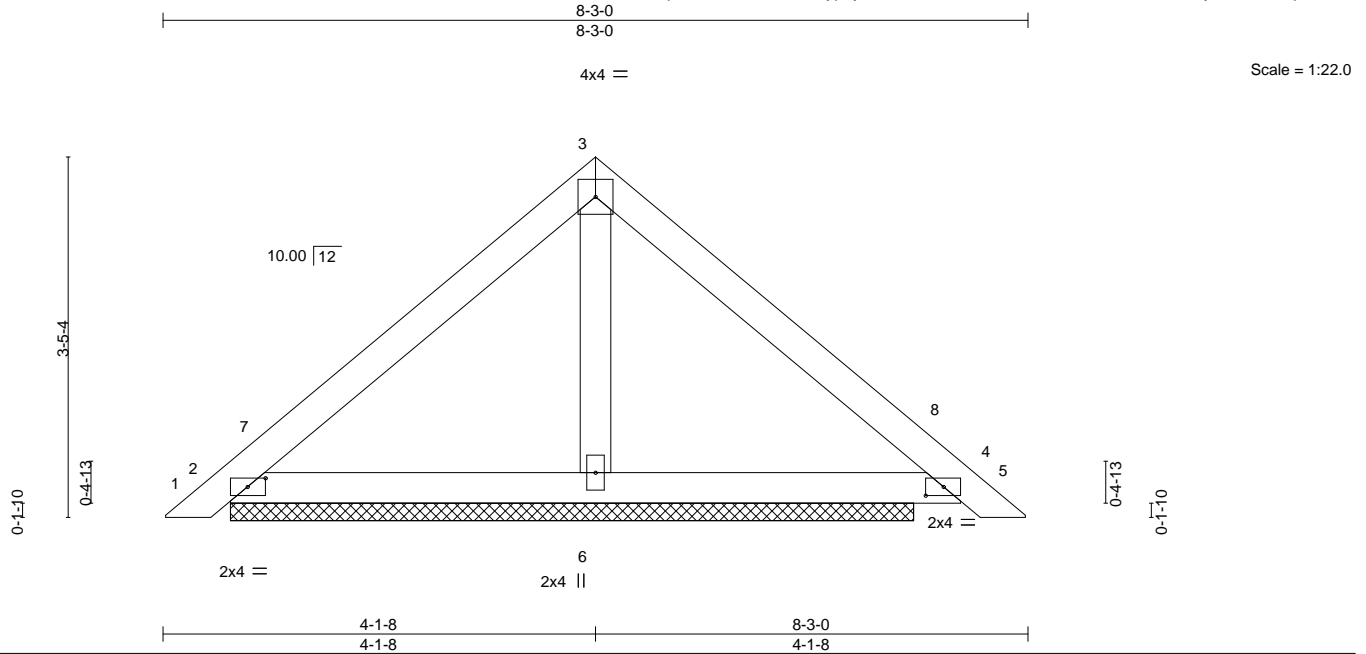
Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 23,2023

Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.	T30878295
3574425	PB01	PIGGYBACK	26	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.17	Vert(LL)	-0.00	4-5	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.12	Vert(CT)	0.00	4-5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	-0.00	6	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 30 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 8-3-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 2=6-6-3, 6=6-6-3
Max Horz 2=-71(LC 10)
Max Uplift 2=-87(LC 24), 6=-112(LC 13)
Max Grav 2=87(LC 23), 6=559(LC 1)

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

TOP CHORD 2-3=-119/258, 3-4=-110/264
WEBS 3-6=-448/287

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; 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 Exterior(2E) 0-2-14 to 3-2-14, Interior(1) 3-2-14 to 4-1-8, Exterior(2R) 4-1-8 to 7-1-8, Interior(1) 7-1-8 to 8-0-2 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 2 and 112 lb uplift at joint 6.
- n/a
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

June 23,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.	T30878296
3574425	PB01G	GABLE	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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May 26 2022
MiTek Industries, Inc.
Thu Jun 22 16:46:05 2023
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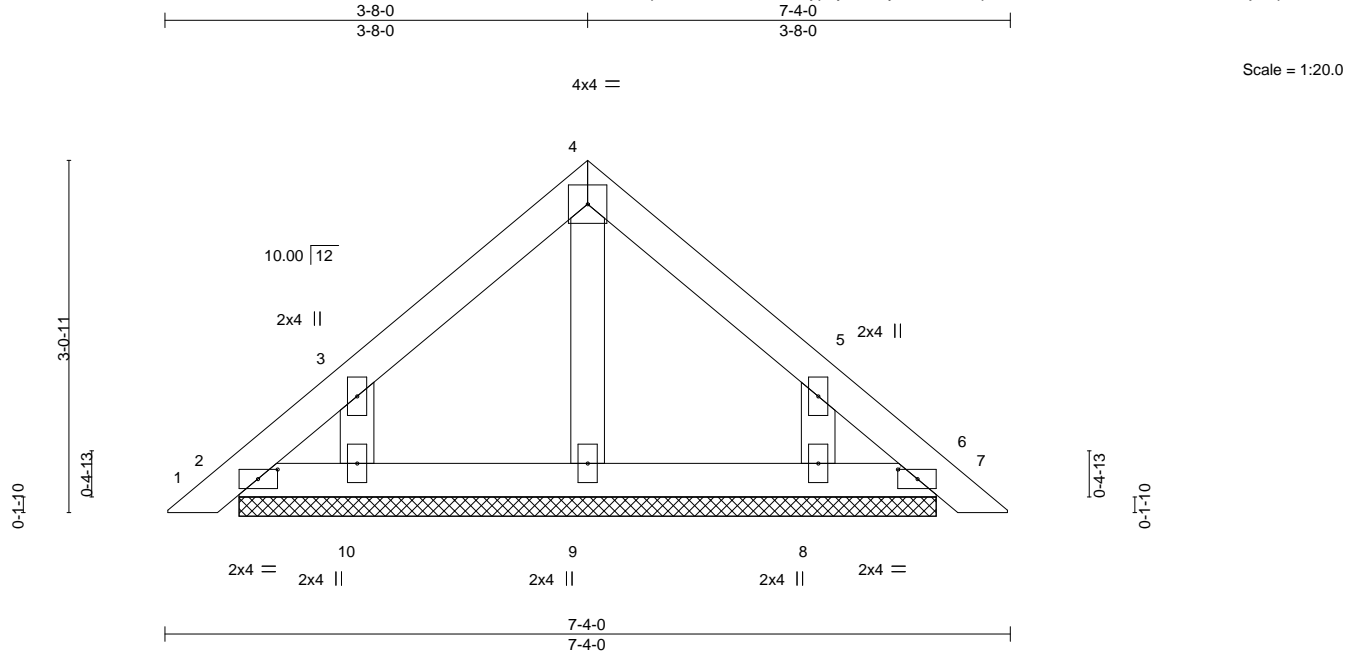


Plate Offsets (X,Y)--		[2:0-2-1,0-1-0], [6:0-2-1,0-1-0]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.06	in (loc) l/defl L/d
TCDL 7.0	Lumber DOL 1.25	BC 0.03	Vert(LL) -0.00 6 n/r 120
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Vert(CT) -0.00 6 n/r 120
BCDL 10.0	Code FBC2020/TPI2014	Matrix-P	Horz(CT) 0.00 6 n/a n/a
			PLATES MT20
			GRIP 244/190
			Weight: 29 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 6-0-9.

(lb) - Max Horz 2=63(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8

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 7-16; 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 Exterior(2E) 0-2-14 to 3-2-14, Interior(1) 3-2-14 to 3-8-0, Exterior(2R) 3-8-0 to 6-8-5, Interior(1) 6-8-5 to 7-1-2 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, 10, 8.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

June 23,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 3574425	Truss PB02	Truss Type Piggyback	Qty 21	Ply 1	IC CONST - URRUTIA RES. T30878297
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Builders FirstSource, Lake City, FL 32055

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10-5-7

5-2-11

4x4 =

Scale = 1:22.1

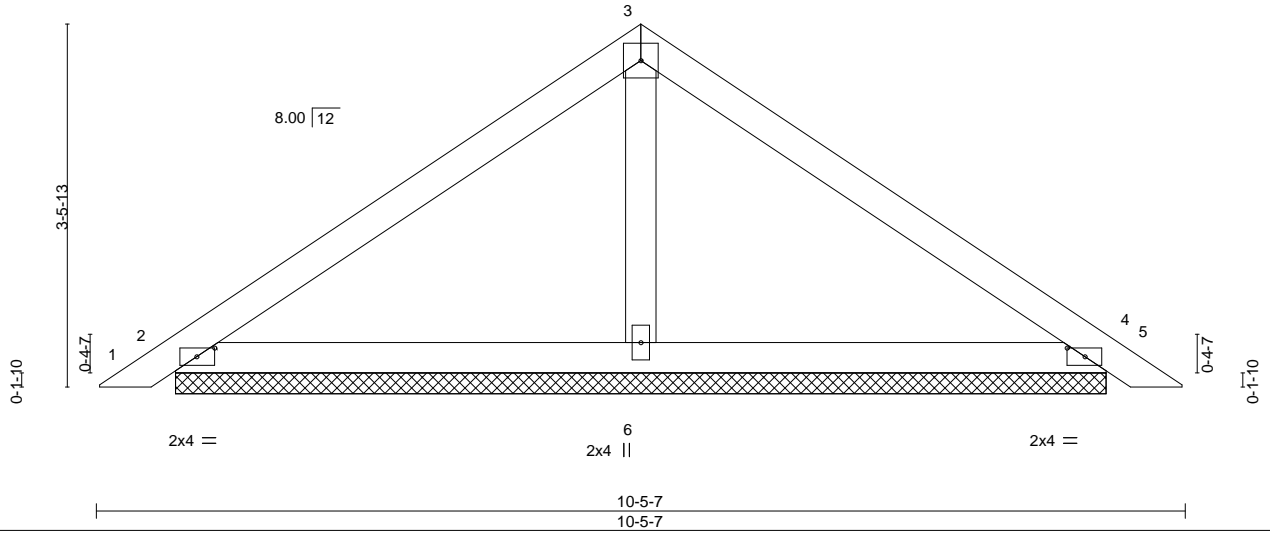


Plate Offsets (X,Y)-- [2:0-2-1,0-1-0], [4:0-2-1,0-1-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	0.01 5 n/r	120	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	0.01 5 n/r	120	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00 4 n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-S					Weight: 36 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=8-11-3, 4=8-11-3, 6=8-11-3
Max Horz 2=73(LC 11)
Max Uplift 2=-53(LC 12), 4=-63(LC 13), 6=-45(LC 12)
Max Grav 2=189(LC 1), 4=189(LC 1), 6=336(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 7-16; 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 Exterior(2E) 0-3-5 to 3-3-5, Interior(1) 3-3-5 to 5-2-11, Exterior(2R) 5-2-11 to 8-2-11, Interior(1) 8-2-11 to 10-2-1 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:

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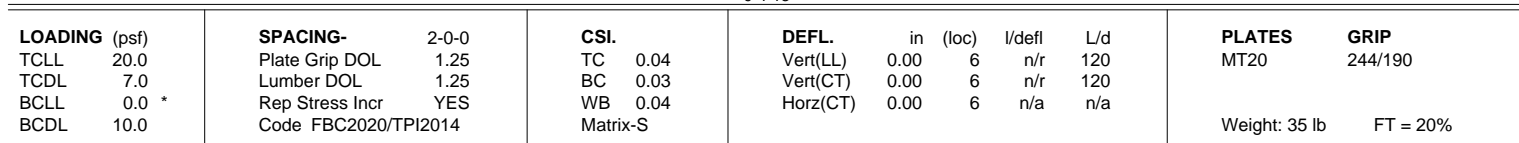
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



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REACTIONS. All bearings 7-10-9.
(lb) - Max Horz 2=65(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8
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-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; 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 Exterior(2E) 0-3-5 to 3-3-5, Interior(1) 3-3-5 to 4-8-7, Exterior(2R) 4-8-7 to 7-8-7, Interior(1) 7-8-7 to 9-1-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2'-0" 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) 2, 6, 10, 8.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

June 23, 2023



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 personnel 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, DSB-89 and BCSI Building C**

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 3574425	Truss T01	Truss Type ATTIC	Qty 6	Ply 1	IC CONST - URRUTIA RES. T30878299
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Builders FirstSource, Lake City, FL 32055

8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:08 2023 Page 1
ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-Mvf9W7xMslan15ukzHg6dBwnBMorxxB3JLSP1z3quT

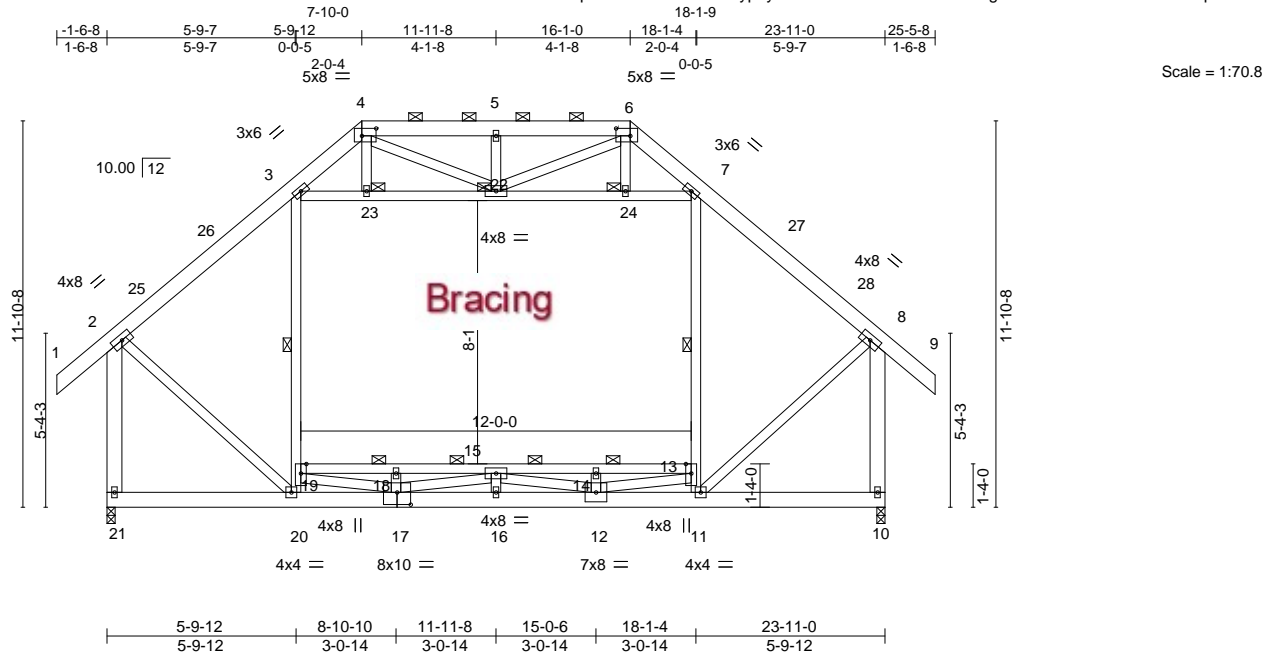


Plate Offsets (X,Y)--										[4:0-5-4,0-2-12], [6:0-5-4,0-2-12], [17:0-5-0,0-4-8]									
LOADING (psf)		SPACING- 2-0-0				CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP					
TCLL	20.0	Plate Grip DOL 1.25				TC	0.29	Vert(LL)	0.14	20	>999	240	MT20	244/190					
TCDL	7.0	Lumber DOL 1.25				BC	1.00	Vert(CT)	-0.19	15	>999	180							
BCLL	0.0 *	Rep Stress Incr YES				WB	0.79	Horz(CT)	0.02	10	n/a	n/a							
BCDL	10.0	Code FBC2020/TPI2014				Matrix-MS		Attic	-0.09	13-19	1640	360	Weight: 279 lb	FT = 20%					

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD 2x6 SP No.2 *Except* 13-19: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 2-4-0 oc bracing: 13-19
WEBS 2x4 SP No.3 *Except* 2-21,8-10: 2x6 SP No.2	WEBS 1 Row at midpt 3-19, 7-13
	JOINTS 1 Brace at Jt(s): 22, 23, 24
REACTIONS. (size) 21=0-3-0, 10=0-3-0 Max Horz 21=-335(LC 10) Max Grav 21=1577(LC 2), 10=1577(LC 3)	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1109/10, 3-4=-566/135, 4-5=-661/203, 5-6=-661/203, 6-7=-566/135, 7-8=-1109/10, 2-21=-1564/27, 8-10=-1564/28
BOT CHORD 20-21=-330/305, 17-20=-102/933, 16-17=0/3001, 12-16=0/3001, 11-12=0/815, 18-19=-1564/0, 15-18=-1551/0, 14-15=-1548/0, 13-14=-1548/0
WEBS 19-20=-455/10, 3-19=-108/398, 11-13=-456/10, 7-13=-108/398, 3-23=-567/79, 22-23=-557/80, 22-24=-558/80, 7-24=-567/79, 2-20=-8/1127, 8-11=-9/1128, 4-22=-234/346, 6-22=-234/346, 17-18=-397/0, 17-19=0/1655, 15-17=-823/96, 12-14=-397/0, 12-15=-807/73, 12-13=0/1640

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; 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 Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 7-10-0, Exterior(2R) 7-10-0 to 11-11-8, Interior(1) 11-11-8 to 16-1-0, Exterior(2R) 16-1-0 to 20-3-15, Interior(1) 20-3-15 to 25-5-8 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 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.
- Ceiling dead load (5.0 psf) on member(s). 3-23, 22-23, 22-24, 7-24; Wall dead load (5.0psf) on member(s). 3-19, 7-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-19, 15-18, 14-15, 13-14
- 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.

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

June 23,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.	T30878300
3574425	T01G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055
8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:10 2023 Page 1
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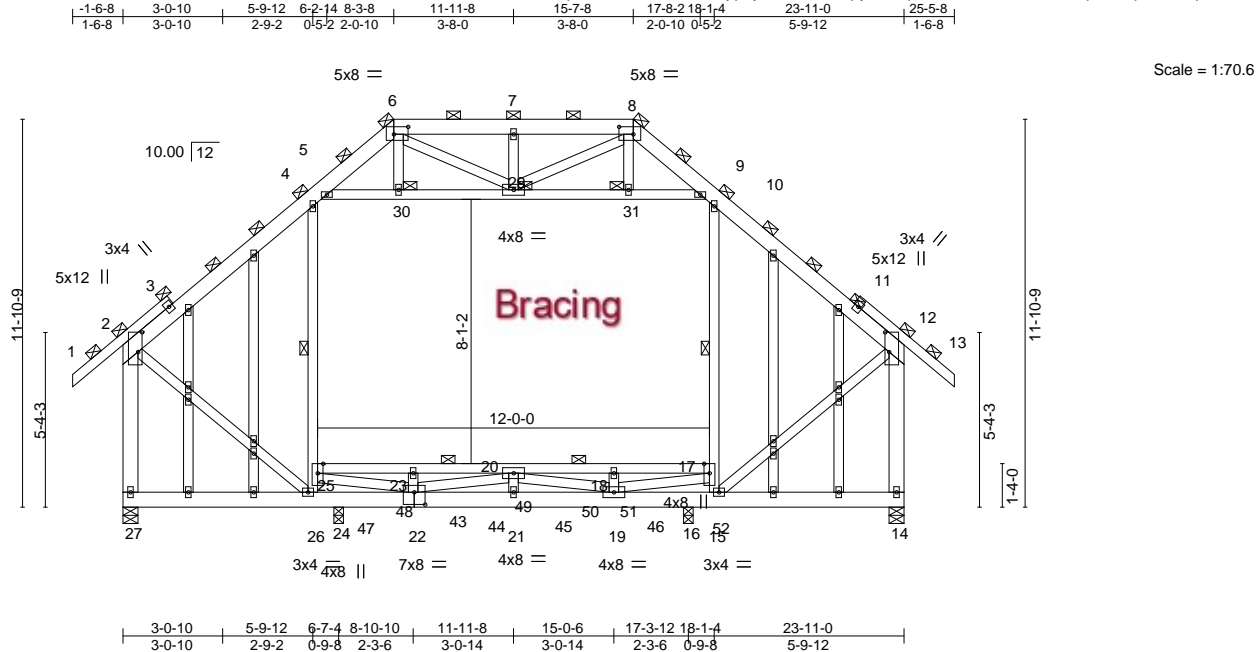


Plate Offsets (X,Y)-- [2:0-7-4,0-1-8], [6:0-5-4,0-2-12], [8:0-5-4,0-2-12], [12:0-7-4,0-1-8], [22:0-4-0,0-4-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	-0.06	20	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.11	20	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.01	14	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS		Attic	-0.06	17-25	2412	360	Weight: 315 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD	TOP CHORD
2x6 SP No.2 *Except*	2-0-0 oc purlins (6-0-0 max.), except end verticals, and sheathed or
1-3,11-13: 2x4 SP No.2	6-0-0 oc purlins: 4-5, 9-10.
BOT CHORD	BOT CHORD
2x6 SP No.2 *Except*	Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
17-25: 2x4 SP No.2	5-6-0 oc bracing: 17-25
WEBS	WEBS
2x4 SP No.3 *Except*	1 Row at midpt 4-25, 10-17
2-27,12-14: 2x6 SP No.2	JOINTS
2x4 SP No.3	1 Brace at Jt(s): 2, 6, 8, 12, 29, 30, 31

REACTIONS.	All bearings 0-5-8 except (jt=length) 24=0-3-8, 16=0-3-8.
(lb) -	Max Horz 27=328(LC 27)
Max Uplift	All uplift 100 lb or less at joint(s) 24, 16 except 27=135(LC 24), 14=106(LC 25)
Max Grav	All reactions 250 lb or less at joint(s) except 27=601(LC 1), 14=600(LC 1), 24=1334(LC 34), 16=1311(LC 35)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-313/135, 4-5=-386/149, 5-6=-487/108, 6-7=-596/171, 7-8=-596/171, 8-9=-487/108, 9-10=-387/148, 10-12=-313/137, 2-27=-532/158, 12-14=-532/129
BOT CHORD	26-27=-304/286, 24-26=-140/290, 22-24=-140/290, 21-22=0/1879, 19-21=0/1879, 16-19=-112/269, 15-16=-112/269, 23-25=-998/0, 20-23=-984/0, 18-20=-981/0, 17-18=-981/0
WEBS	25-26=-813/14, 4-25=-496/160, 15-17=-811/15, 10-17=-496/166, 6-29=-106/313, 8-29=-109/313, 20-21=-5/274, 22-23=-414/0, 22-25=-7/964, 20-22=-923/0, 18-19=-415/0, 19-20=-925/0, 17-19=0/948

NOTES-	
1) Unbalanced roof live loads have been considered for this design.	
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60	
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.	
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.	
5) Provide adequate drainage to prevent water ponding.	
6) All plates are 2x4 MT20 unless otherwise indicated.	
7) Gable studs spaced at 2-0-0 oc.	
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.	
10) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-30, 29-30, 29-31, 9-31; Wall dead load (5.0psf) on member(s).4-25, 10-17	
11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 23-25, 20-23, 18-20, 17-18	

This item has been electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. 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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Date:

June 23,2023

Continued on page 2	
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>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</p> <p>Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component</p> <p>MiTek</p> <p>16023 Swingley Ridge Rd Chesterfield, MO 63017</p>

Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.	T30878300
3574425	T01G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

8.530 s May 26 2022 MiTek Industries, Inc.
Thu Jun 22 16:46:10 2023
Page 2
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- NOTES-**
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 16 except (jt=lb) 27=135, 14=106.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 26 lb down and 21 lb up at 6-6-4, 26 lb down and 21 lb up at 8-6-4, 26 lb down and 21 lb up at 10-6-4, 26 lb down and 21 lb up at 11-11-8, 26 lb down and 21 lb up at 13-4-12, and 26 lb down and 21 lb up at 15-4-12, and 26 lb down and 21 lb up at 17-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - Attic room checked for L/360 deflection.
 - 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=-54, 2-4=-54, 4-5=-64, 5-6=-54, 6-8=-54, 8-9=-54, 9-10=-64, 10-12=-54, 12-13=-54, 14-27=-20, 17-25=-40, 5-9=-10
 - Drag: 4-25=-10, 10-17=-10
 - Concentrated Loads (lb)
 - Vert: 21=-13(B) 24=-13(B) 16=-13(B) 43=-13(B) 44=-13(B) 45=-13(B) 46=-13(B)

Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.	T30878301
3574425	T02	ATTIC	5	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:11 2023 Page 1

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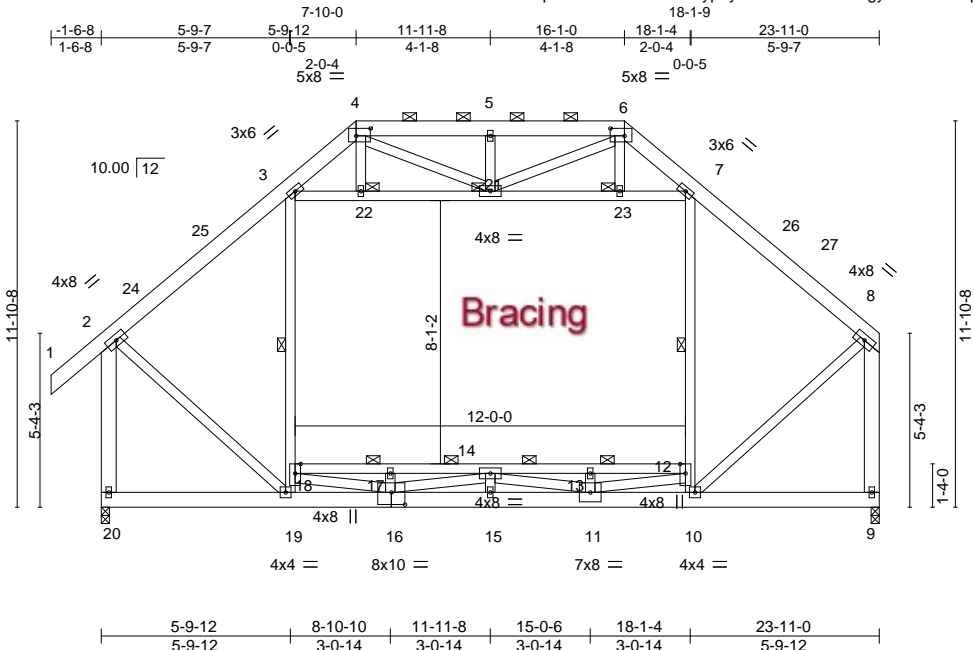


Plate Offsets (X,Y)--		[4:0-5-4,0-2-12], [6:0-5-4,0-2-12], [16:0-5-0,0-4-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.29
TCDL 7.0	Lumber DOL	1.25	BC 1.00
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.79
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS
			DEFL.
			in (loc)
			L/defl
			L/d
			PLATES
			GRIP
			MT20
			244/190
			Weight: 274 lb
			FT = 20%

LUMBER-	BRACING-
TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except*
	12-18: 2x4 SP No.3
WEBS	2x4 SP No.3 *Except*
	2-20,8-9: 2x6 SP No.2
REACTIONS.	
(size)	20=0-3-0, 9=0-3-0
Max Horz	20=-272(LC 10)
Max Grav	20=1580(LC 2), 9=1497(LC 3)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1113/11, 3-4=-565/135, 4-5=-657/205, 5-6=-657/205, 6-7=-562/124, 7-8=-1108/0, 2-20=-1569/0, 8-9=-1480/0
BOT CHORD	16-19=-47/889, 15-16=0/3003, 11-15=0/3003, 10-11=0/825, 17-18=-1561/0, 14-17=-1548/0, 13-14=-1552/0, 12-13=-1552/0
WEBS	18-19=-454/17, 3-18=-107/399, 10-12=-467/30, 7-12=-118/395, 3-22=-557/82, 21-22=-548/83, 21-23=-563/82, 7-23=-572/81, 2-19=0/1115, 8-10=0/1094, 16-17=-397/0, 11-13=-397/0, 16-18=0/1653, 14-16=-806/62, 11-14=-789/67, 11-12=0/1642, 4-21=-221/345, 6-21=-227/345

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; 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 Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 7-10-0, Exterior(2R) 7-10-0 to 11-11-8, Interior(1) 11-11-8 to 16-1-0, Exterior(2R) 16-1-0 to 20-3-15, Interior(1) 20-3-15 to 23-8-4 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 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.
 - Ceiling dead load (5.0 psf) on member(s). 3-22, 21-22, 21-23, 7-23; Wall dead load (5.0psf) on member(s).3-18, 7-12
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 17-18, 14-17, 13-14, 12-13
 - 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.

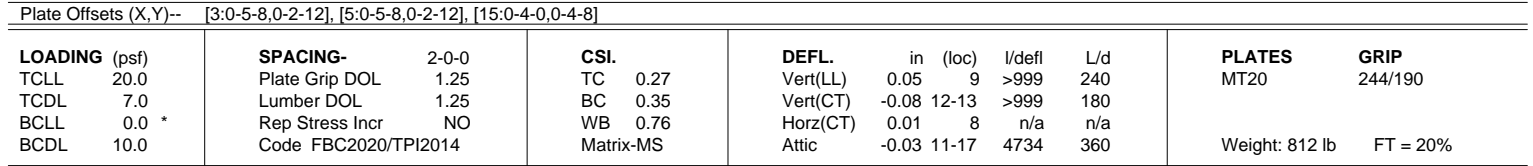
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Philip J. O'Regan PE No.58126
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 Date:

June 23,2023



Builders FirstSource, Lake City, FL 32055 8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:13 2023 Page 1
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FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-2727/547, 2-3=-4139/1199, 3-4=-8559/2569, 4-5=-8559/2569, 5-6=-4139/1194, 6-7=-2731/521, 1-19=-3624/658, 7-8=-3634/660
BOT CHORD	15-18=-515/2322, 14-15=-10/4114, 10-14=-10/4114, 9-10=-393/2243, 16-17=-1680/0, 13-16=-1669/0, 12-13=-1644/0, 11-12=-1644/0
WEBS	17-18=-1669/417, 2-17=-1377/645, 9-11=-1671/410, 6-11=-1377/618, 2-21=-806/1183, 20-21=-794/1179, 20-22=-815/1179, 6-22=-825/1183, 1-18=-553/2795, 7-9=-536/2797, 4-20=-4641/1438, 3-20=-1921/6013, 5-20=-1919/6013, 15-16=-398/0, 10-12=-401/0, 15-17=0/1659, 13-15=-793/126, 10-13=-821/115, 10-11=0/1623

This item has been electronically signed and sealed by OREGAN, Philip, PE using a Digital Signature. 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:

June 23, 2023

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

WARNING – Verify design parameters and READ NOTES ON THIS AND INCLUDED W/ITER KEY EXERCISE #06 MIF-743-167, 3/15/2020 (BY ONE USER). 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.	T30878302
3574425	T03	ATTIC GIRDER	1	3	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

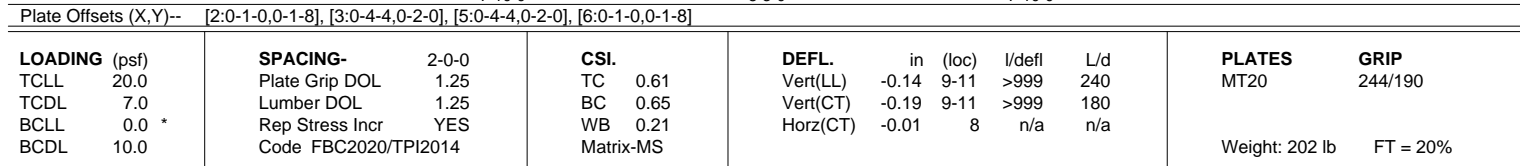
8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:13 2023 Page 2

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- NOTES-**
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=656, 8=659.
 - 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 4807 lb down and 1462 lb up at 11-11-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 15) 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: 1-3=-54, 3-5=-54, 5-7=-54, 8-19=-20, 11-17=-40, 2-6=-10
 - Drag: 2-17=-10, 6-11=-10
 - Concentrated Loads (lb)
 - Vert: 4=-4807

Builders FirstSource, Lake City, FL 32055 8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:14 2023 Page 1
ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-B31RnB?7SbKxl0LuKXnWsSAkfnwpLomxFFondhz3quN



REACTIONS. (size) 12=0-3-0, 8=0-3-0
 Max Horz 12=-336(LC 10)
 Max Uplift 12=-208(LC 12), 8=-208(LC 13)
 Max Grav 12=1042(LC 2), 8=1042(LC 2)

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

TOP CHORD 2-3=-728/198, 3-4=-467/226, 4-5=-467/226, 5-6=-728/198, 2-12=-926/251,
6-8=-926/251

BOT CHORD 11-12=-305/315, 9-11=-181/534

WEBS 2-11=-127/520, 6-9=-128/520

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 7-10-0, Exterior(2R) 7-10-0 to 11-11-8, Interior(1) 11-11-8 to 16-1-0, Exterior(2R) 16-1-0 to 20-3-15, Interior(1) 20-3-15 to 25-5-8 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=208, 8=208.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

June 23.2023



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 personnel 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, DSB-89 and BCSI Building C**

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.	T30878304
3574425	T04G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055
ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-7R8BCs1NzDaf_JVHRyp_ytF7zahipf?EjZHthaz3quL
8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:16 2023 Page 1

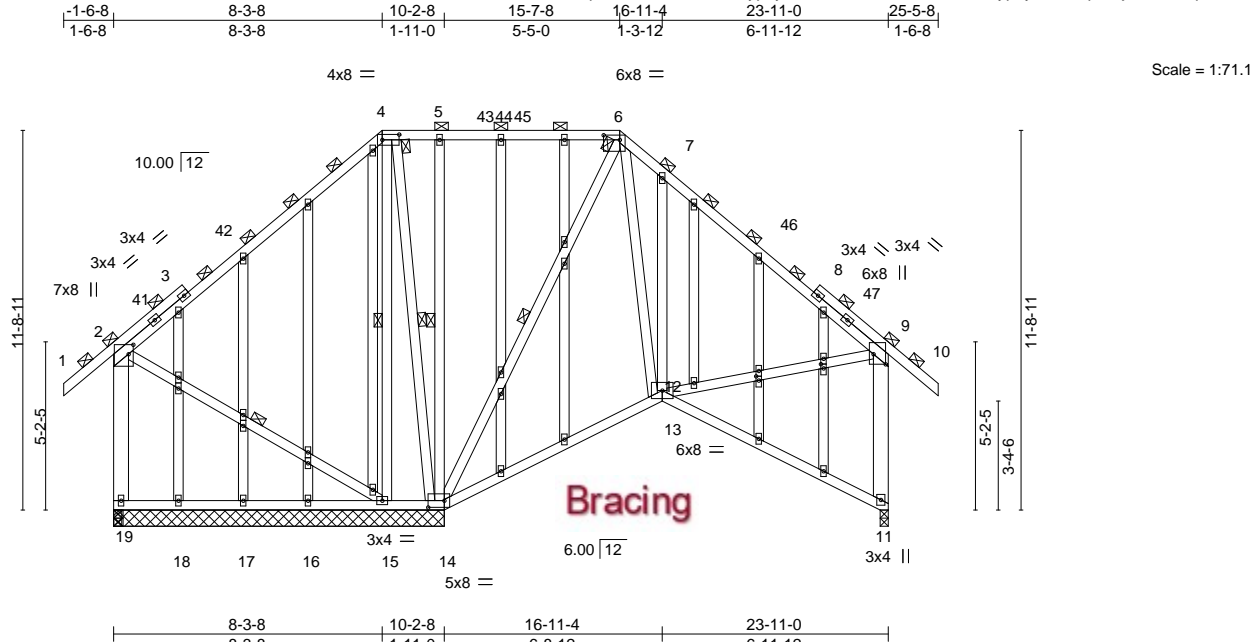


Plate Offsets (X,Y)--		[2:0-3-8,0-1-12], [4:0-6-4,0-2-0], [6:0-6-0,0-1-12], [9:0-3-12,Edge], [14:0-6-0,0-2-8], [25:0-1-9,0-1-0], [28:0-1-9,0-1-0]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.43	Vert(LL)	-0.07 11-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.37	Vert(CT)	-0.15 11-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.41	Horz(CT)	0.03 11	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS					Weight: 333 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 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 4-15, 4-14, 5-14, 6-14, 2-15
OTHERS 2x4 SP No.3	

REACTIONS.	All bearings 10-2-8 except (jt=length) 19=0-3-0, 19=0-3-0, 19=0-3-0, 11=0-3-0.
(lb) - Max Horz	19=-330(LC 10)
Max Uplift	All uplift 100 lb or less at joint(s) 11 except 19=-124(LC 24), 14=-316(LC 13), 15=-278(LC 12)
Max Grav	All reactions 250 lb or less at joint(s) 19, 19, 19, 18, 17, 16 except 14=1024(LC 1), 11=438(LC 24), 15=447(LC 19)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-120/404, 4-5=-18/259, 5-6=-19/262, 9-11=-390/83
BOT CHORD	18-19=-309/318, 17-18=-309/318, 16-17=-309/318, 15-16=-309/318, 14-15=-323/300, 13-14=-244/339, 12-13=-283/360
WEBS	5-14=-273/155, 6-14=-565/182, 6-13=-215/439, 7-12=-305/261, 2-15=-434/365

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; 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 Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 8-3-8, Exterior(2R) 8-3-8 to 12-6-7, Interior(1) 12-6-7 to 15-7-8, Exterior(2R) 15-7-8 to 19-10-7, Interior(1) 19-10-7 to 25-5-8 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
 - 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.
 - Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 19=124, 14=316, 15=278.
 - 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 electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

June 23,2023

Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.	T30878305
3574425	T05	PIGGYBACK BASE	8	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-7R8BCs1NzDaf_JVHRyp_ytF3dafxpdzEjZHthaz3quL 8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:16 2023 Page 1

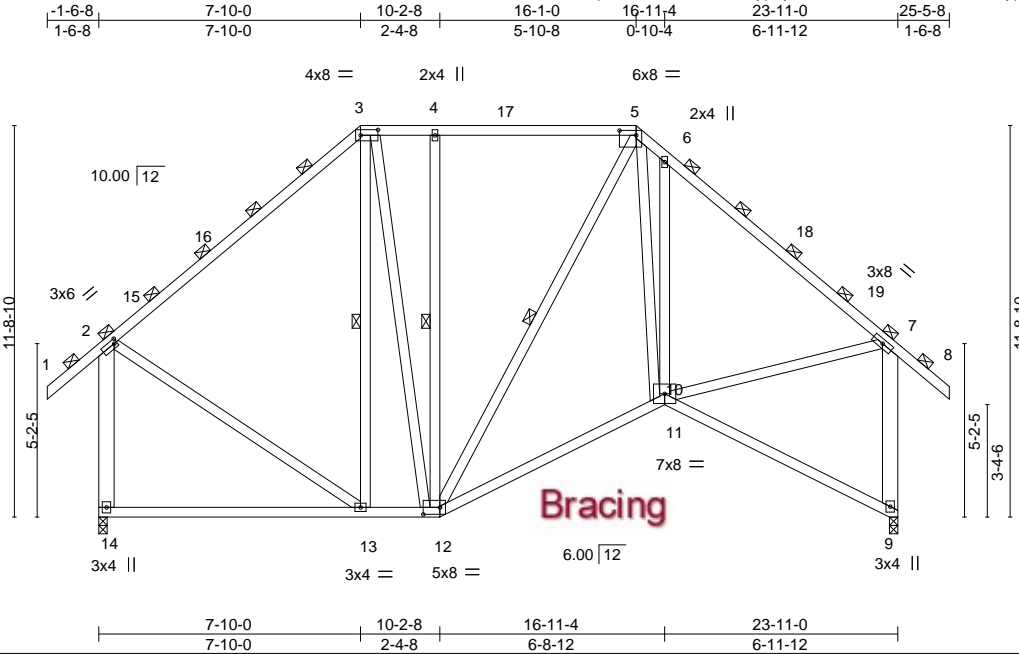


Plate Offsets (X,Y)-- [2:0-1-0,0-1-8], [3:0-6-4,0-2-0], [5:0-6-0,0-1-12], [12:0-6-0,0-2-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	-0.09 13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.19 13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.05 9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS						Weight: 224 lb	FT = 20%

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

REACTIONS.	(size) 14=0-3-0, 9=0-3-0
	Max Horz 14=-336(LC 10)
	Max Uplift 14=-209(LC 12), 9=-207(LC 13)
	Max Grav 14=964(LC 1), 9=964(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-673/198, 3-4=-441/223, 4-5=-438/222, 5-6=-810/395, 6-7=-879/226, 2-14=-891/253, 7-9=-907/268
BOT CHORD	13-14=-304/315, 12-13=-197/434, 11-12=-200/643, 10-11=-226/433
WEBS	3-12=-211/281, 4-12=-278/157, 5-12=-250/76, 5-11=-297/563, 6-10=-345/294, 2-13=-126/418, 7-10=-147/559

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; 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 Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 7-10-0, Exterior(2R) 7-10-0 to 12-0-15, Interior(1) 12-0-15 to 16-1-0, Exterior(2R) 16-1-0 to 20-3-15, Interior(1) 20-3-15 to 25-5-8 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.
 - 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.
 - 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 capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=209, 9=207.
 - 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 electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

June 23,2023

Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.	T30878306
3574425	T06	ATTIC	6	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-beiZPC2?kWivcT4T?gKDU4oHK_0qY2JOyD0RD0z3quK
8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:17 2023 Page 1

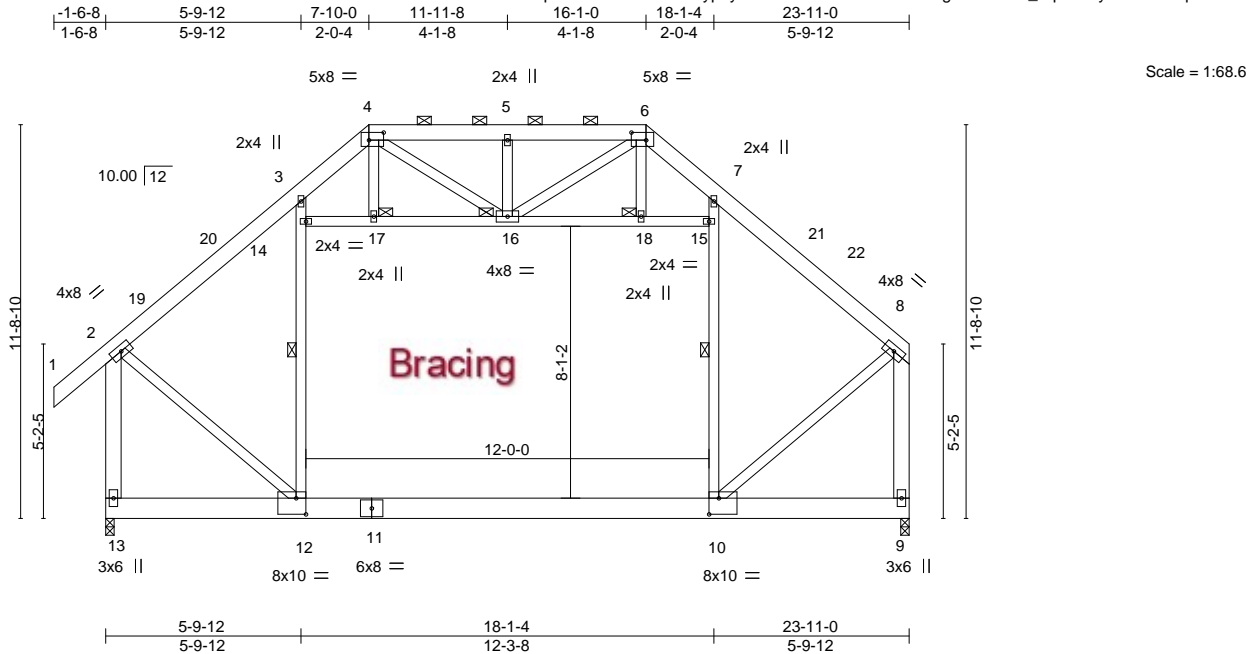


Plate Offsets (X,Y)--		[4:0-5-4,0-2-12], [6:0-5-4,0-2-12], [10:0-3-8,0-5-12], [12:0-3-8,0-5-12]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.45	in (loc) l/defl L/d
TCDL 7.0	Lumber DOL 1.25	BC 0.44	Vert(LL) -0.23 10-12 >999 240
BCLL 0.0 *	Rep Stress Incr YES	WB 0.67	Vert(CT) -0.36 10-12 >792 180
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Horz(CT) 0.01 9 n/a n/a
			Attic -0.18 10-12 800 360
			Weight: 255 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 12-14, 10-15
3-12,7-10: 2x4 SP No.2, 2-13,8-9: 2x6 SP No.2	JOINTS 1 Brace at Jt(s): 16, 17, 18
REACTIONS.	
(size) 13=0-3-0, 9=0-3-0	
Max Horz 13=-267(LC 10)	
Max Grav 13=1470(LC 2), 9=1386(LC 2)	
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-3=-1145/25, 3-4=-732/106, 4-5=-657/122, 5-6=-657/122, 6-7=-734/112, 7-8=-1136/10, 2-13=-1580/10, 8-9=-1489/0	
BOT CHORD 10-12=0/817	
WEBS 12-14=-122/486, 3-14=-56/442, 10-15=-135/477, 7-15=-70/433, 2-12=-5/1055, 8-10=0/1039	

- NOTES-**
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; 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 Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 7-10-0, Exterior(2R) 7-10-0 to 11-11-8, Interior(1) 11-11-8 to 16-1-0, Exterior(2R) 16-1-0 to 20-3-15, Interior(1) 20-3-15 to 23-8-4 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.
 - 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.
 - Ceiling dead load (5.0 psf) on member(s). 14-17, 16-17, 16-18, 15-18; Wall dead load (5.0psf) on member(s).12-14, 10-15
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
 - 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.
- This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

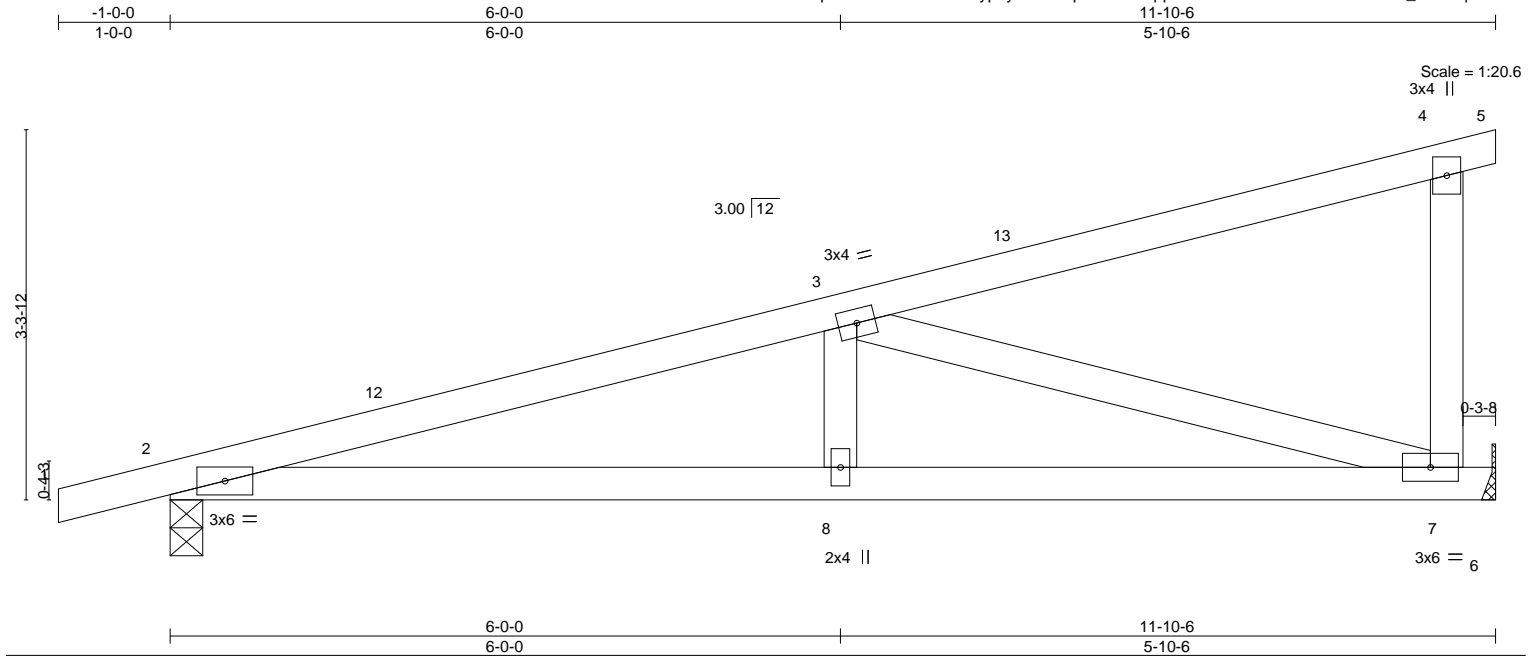
Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 23,2023

Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.	T30878307
3574425	T07	Jack-Closed	5	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:18 2023 Page 1
ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-3qGxdY3dVqqMDdfZNRs1ILSdOMRHX?XAtm_mSz3quJ



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.05 8-11 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.10 8-11 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.02 6 n/a n/a				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
								Weight: 51 lb		FT = 20%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-4-14 oc bracing.

REACTIONS.

(size) 2=0-3-8, 6=Mechanical
Max Horz 2=113(LC 8)
Max Uplift 2=-144(LC 8), 6=-129(LC 8)
Max Grav 2=493(LC 1), 6=438(LC 1)

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

TOP CHORD 2-3=-1017/302
BOT CHORD 2-8=-388/968, 7-8=-388/968
WEBS 3-8=0/264, 3-7=-938/365

NOTES-

- Wind: ASCE 7-16; 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 Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 11-10-6 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.
- 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=144, 6=129.

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

June 23,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.	T30878308
3574425	T07G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-3qGxdY3dVqqMDdffZnR51LT5OPuHf4XAtm_mSz3quJ

11-10-6

11-10-6

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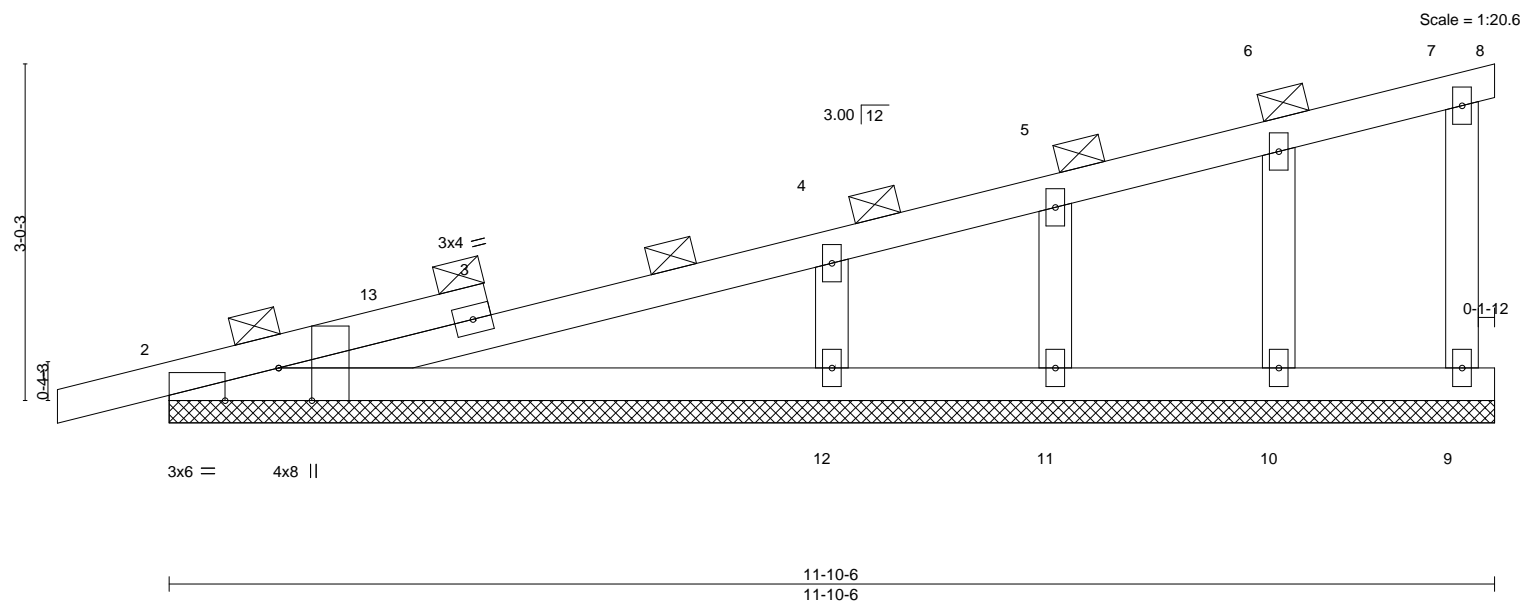


Plate Offsets (X,Y)--		[2:0-3-8,Edge], [2:0-5-12,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.39
TCDL 7.0	Lumber DOL	1.25	BC 0.26
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.00 1 n/r 120
			Vert(CT) 0.01 1 n/r 120
			Horz(CT) -0.01 8 n/a n/a
			PLATES
			MT20
			GRIP
			244/190
			Weight: 50 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 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 11-10-6.
 (lb) - Max Horz 2=103(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 9, 11, 10 except 12=117(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 9, 11, 10 except 12=447(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 4-12=314/160

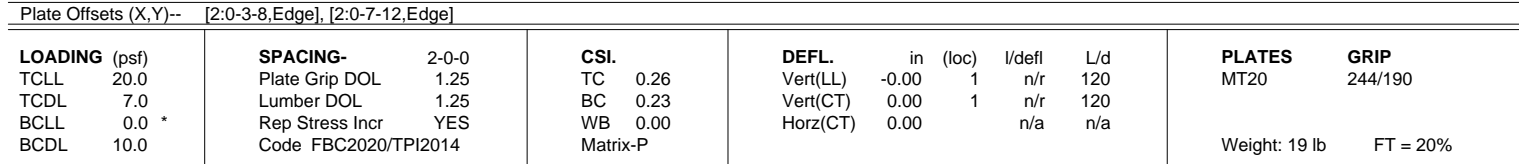
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 11-10-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 9, 11, 10 except (jt=lb) 12=117.
 - 11) 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 electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

June 23,2023

Builders FirstSource, Lake City, FL 32055 8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:19 2023 Page 1
ID:nxAp0lu8aVJEoCbDQLOvp6v5Ask-X0aKqu3GG8vDrnEs65MhZVtavokW06DgPWVylz3aul



REACTIONS. (size) 2=4-6-0, 5=4-6-0
 Max Horz 2=38(LC 8)
 Max Uplift 2=-83(LC 8), 5=-44(LC 12)
 Max Grav 2=221(LC 1), 5=155(LC 1)

NOTES-

- 1) Wind: ASCE 7-16; 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 Exterior(2E) -1-0-0 to 2-0-0, Interior(1i) 2-0-0 to 4-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TP1 1.
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 23, 2023

Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.	T30878310
3574425	T09	COMMON	1	1	Job Reference (optional)	

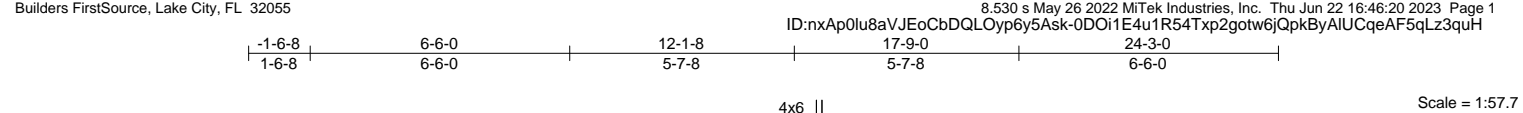


Plate Offsets (X,Y)--		[3:0-2-12,0-3-0], [5:0-2-12,0-3-0]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.38	Vert(LL)	-0.15 10-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.72	Vert(CT)	-0.27 10-11	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.34	Horz(CT)	0.03 7	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS					Weight: 156 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-3-7 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*	WEBS	1 Row at midpt 3-11, 5-7
	2-11,6-7: 2x6 SP No.2		

REACTIONS. (size) 11=0-3-8, 7=0-3-8
Max Horz 11=232(LC 9)
Max Uplift 11=-207(LC 12), 7=-169(LC 13)
Max Grav 11=1124(LC 19), 7=1031(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-354/172, 3-4=-1107/286, 4-5=-1117/290, 5-6=-330/126, 2-11=-408/202, 6-7=-295/132
BOT CHORD 10-11=-191/1008, 8-10=-47/737, 7-8=-140/906
WEBS 4-8=-173/565, 4-10=-168/548, 3-11=-969/108, 5-7=-979/138

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; 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 Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 12-1-8, Exterior(2R) 12-1-8 to 15-1-8, Interior(1) 15-1-8 to 24-0-4 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=207, 7=169.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 23,2023



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 3574425	Truss T09G	Truss Type GABLE	Qty 1	Ply 1	IC CONST - URRUTIA RES. T30878311
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Builders FirstSource, Lake City, FL 32055

8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:21 2023 Page 1
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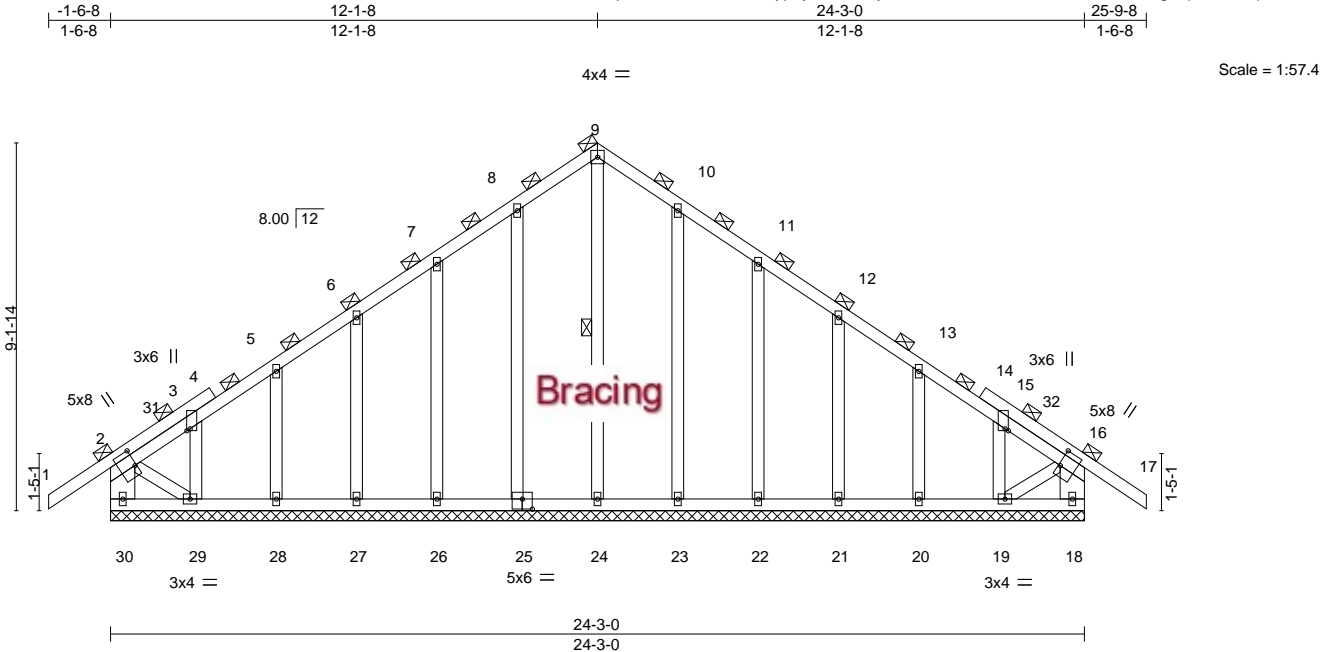


Plate Offsets (X,Y)-- [2:0-5-0,0-0-8], [3:0-0-9,0-1-0], [15:0-0-9,0-1-0], [16:0-5-0,0-0-8], [25:0-3-0,0-3-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.				PLATES	GRIP
	TCLL	20.0		TC	0.21	in	(loc)		
	TCDL	7.0		Vert(LL)	-0.01	17	n/r		
	BCLL	0.0 *		Vert(CT)	-0.02	17	n/r		
	BCDL	10.0		Horz(CT)	0.01	18	n/a		
		Code FBC2020/TPI2014	Matrix-S					Weight: 186 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.).
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
	2-30,16-18: 2x8 SP 2400F 2.0E		9-24
OTHERS	2x4 SP No.3		

REACTIONS. All bearings 24-3-0.

(lb) - Max Horz 30=-193(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 30, 25, 26, 27, 28, 23, 22, 21, 20, 18 except 29=-150(LC 12), 19=-131(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 30, 24, 25, 26, 27, 28, 29, 23, 22, 21, 20, 18, 19

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

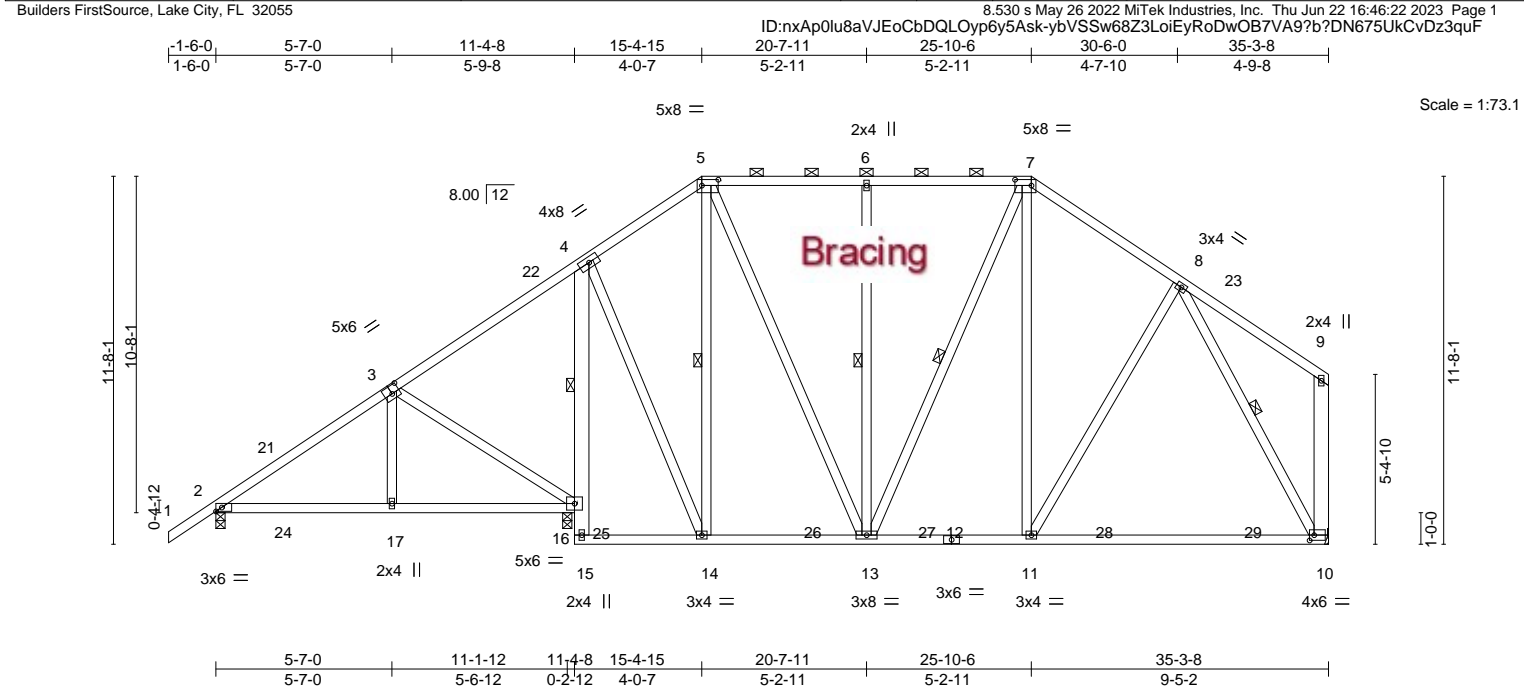
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-8 to 1-5-8, Exterior(2N) 1-5-8 to 12-1-8, Corner(3R) 12-1-8 to 15-1-8, Exterior(2N) 15-1-8 to 25-9-8 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
 - 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) 30, 25, 26, 27, 28, 23, 22, 21, 20, 18 except (jt=lb) 29=150, 19=131.
 - 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 electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. 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
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 23,2023

Job 3574425	Truss T10	Truss Type Piggyback Base	Qty 5	Ply 1	IC CONST - URRUTIA RES. Job Reference (optional)	T30878312
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.32	Vert(LL)	-0.34 10-11	>820	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.95	Vert(CT)	-0.54 10-11	>518	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.44	Horz(CT)	0.02 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 289 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, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD	2x4 SP No.2 *Except* 4-15: 2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 14-15 2-2-0 oc bracing: 10-11.
WEBS	2x4 SP No.3 *Except* 5-13,7-13: 2x4 SP No.2, 9-10: 2x6 SP No.2	WEBS	1 Row at midpt 4-16 1 Row at midpt 5-14, 6-13, 7-13, 8-10
REACTIONS.	(size) 2=0-3-8, 16=0-3-8, 10=Mechanical Max Horz 2=264(LC 12) Max Uplift 2=-80(LC 12), 16=-346(LC 12), 10=-203(LC 13) Max Grav 2=518(LC 2), 16=1471(LC 2), 10=1016(LC 2)		
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	2-3=-528/233, 4-5=-415/205, 5-6=-504/233, 6-7=-504/233, 7-8=-701/245		
BOT CHORD	2-17=-212/430, 16-17=-216/433, 4-16=-1083/267, 13-14=-50/288, 11-13=-34/532, 10-11=-83/432		
WEBS	3-17=-208/260, 3-16=-467/316, 4-14=-93/721, 5-14=-442/117, 5-13=-127/522, 6-13=-327/161, 7-11=-35/293, 8-10=-812/171		

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; 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 Exterior(2E) -1-6-0 to 2-0-6, Interior(1) 2-0-6 to 15-4-15, Exterior(2R) 15-4-15 to 20-7-11, Interior(1) 20-7-11 to 25-10-6, Exterior(2R) 25-10-6 to 30-6-14, Interior(1) 30-6-14 to 35-0-12 zone; 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.
 - 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) 2 except (jt=lb) 16=346, 10=203.
 - 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:

June 23,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



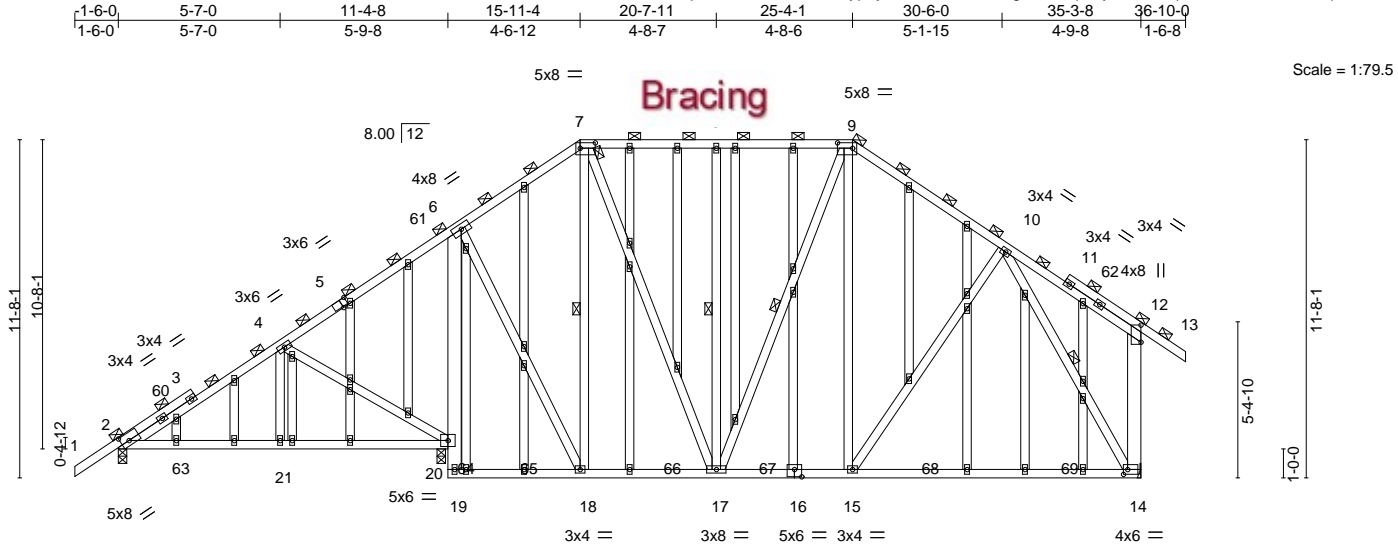
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.	T30878313
3574425	T10G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:24 2023 Page 1



Job 3574425	Truss T11	Truss Type Piggyback Base	Qty 9	Ply 1	IC CONST - URRUTIA RES.	T30878314
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Builders FirstSource, Lake City, FL 32055

ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-u_dTtc7O5gbWxY6pveysGYbV2pRxFmPZoDJz6z3quD

8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:24 2023 Page 1

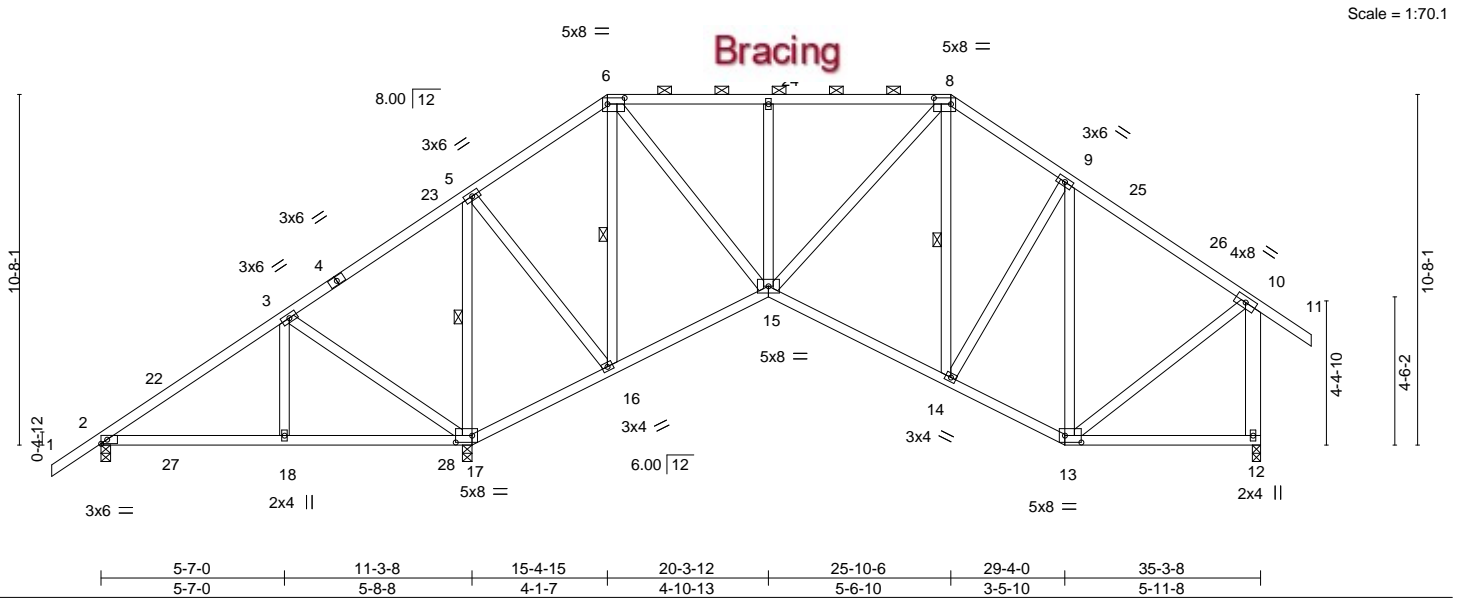


Plate Offsets (X,Y)--		[6:0-6-4,0-2-4], [8:0-6-4,0-2-4], [13:0-6-0,0-2-8], [17:0-6-0,0-2-8]
LOADING (psf)	SPACING-	CSL
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.36
TCDL 7.0	Lumber DOL 1.25	BC 0.28
BCLL 0.0 *	Rep Stress Incr YES	WB 0.49
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS
DEFL.	PLATES	GRIP
in (loc) l/defl L/d	MT20	244/190
Vert(LL) -0.04 12-13 >999 240		
Vert(CT) -0.09 14-15 >999 180		
Horz(CT) 0.05 12 n/a n/a		
	Weight: 253 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, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 10-12: 2x6 SP No.2	WEBS 1 Row at midpt 5-17, 6-16, 8-14

REACTIONS.	(size) 2=0-3-8, 17=0-3-8, 12=0-3-0
	Max Horz 2=300(LC 11)
	Max Uplift 2=-74(LC 12), 17=-376(LC 9), 12=-212(LC 13)
	Max Grav 2=309(LC 23), 17=1613(LC 1), 12=876(LC 24)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	3-5=-190/446, 6-7=-607/188, 7-8=-607/188, 8-9=-632/240, 9-10=-584/167, 10-12=-816/229
BOT CHORD	16-17=-384/215, 14-15=-101/549, 13-14=-90/473
WEBS	3-18=-211/259, 3-17=-415/304, 5-17=-1131/263, 5-16=-139/725, 6-16=-688/183, 6-15=-147/752, 7-15=-329/161, 9-13=-406/98, 10-13=-54/483

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; 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 Exterior(2E) -1-6-0 to 2-0-6, Interior(1) 2-0-6 to 15-4-15, Exterior(2R) 15-4-15 to 20-3-12, Interior(1) 20-3-12 to 25-10-6, Exterior(2R) 25-10-6 to 30-10-4, Interior(1) 30-10-4 to 36-10-0 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 17=376, 12=212.
 - 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 electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. 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:

June 23,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.	T30878315
3574425	T12	Piggyback Base	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:25 2023 Page 1

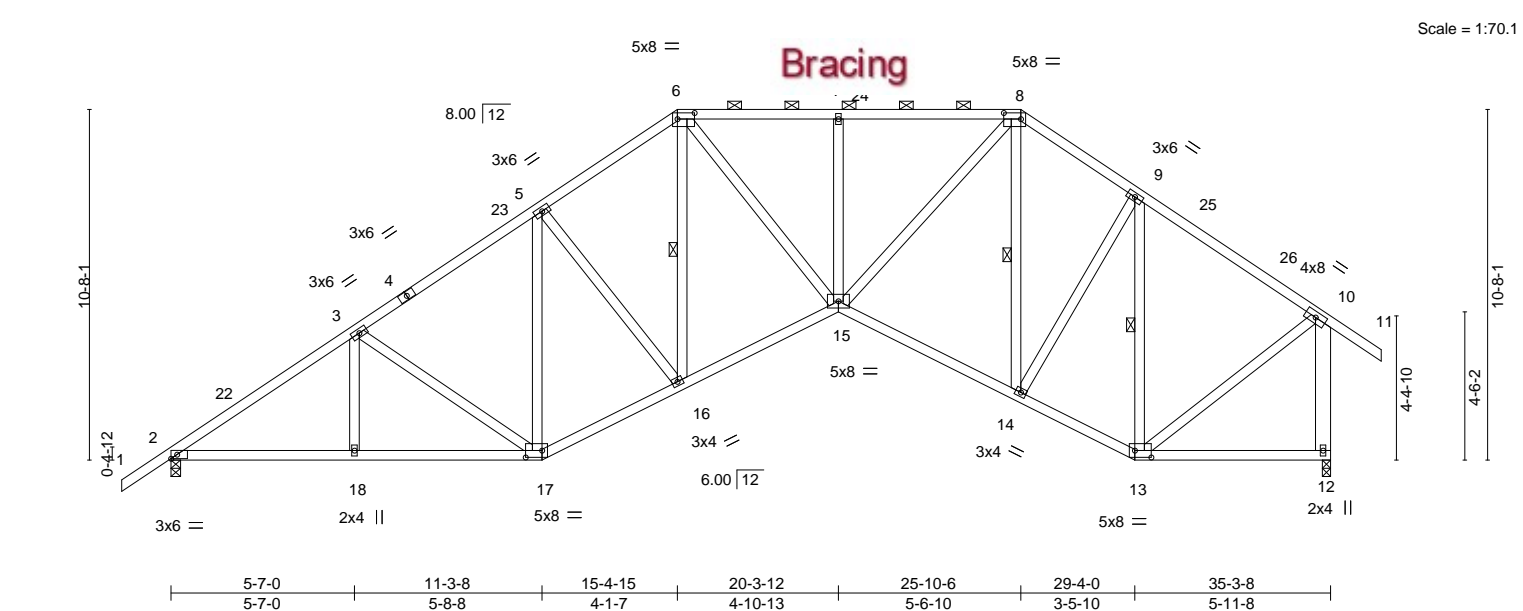


Plate Offsets (X,Y)-- [6:0-6-4,0-2-4], [8:0-6-4,0-2-4], [13:0-6-0,0-2-8], [17:0-6-0,0-2-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.11 15 >999 240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.22 15-16 >999 180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.15 12 n/a n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS				Weight: 253 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-8 max.): 6-8.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3 *Except* 10-12: 2x6 SP No.2	8-10-8 oc bracing: 2-18 8-11-3 oc bracing: 17-18.
	WEBS 1 Row at midpt 6-16, 8-14, 9-13
REACTIONS. (size) 2=0-3-8, 12=0-3-0	
Max Horz 2=300(LC 11)	
Max Uplift 2=-319(LC 12), 12=-282(LC 13)	
Max Grav 2=1378(LC 1), 12=1394(LC 1)	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-3=-2036/440, 3-5=-1669/412, 5-6=-1703/457, 6-7=-1909/447, 7-8=-1909/447, 8-9=-1306/331, 9-10=-1028/235, 10-12=-1333/298	
BOT CHORD 2-18=-438/1632, 17-18=-438/1632, 16-17=-328/1490, 15-16=-346/1530, 14-15=-210/1166, 13-14=-144/877	
WEBS 3-17=-402/184, 5-17=-360/133, 6-15=-167/867, 7-15=-325/161, 8-15=-334/1286, 8-14=-475/215, 9-14=-169/524, 9-13=-859/158, 10-13=-115/939	

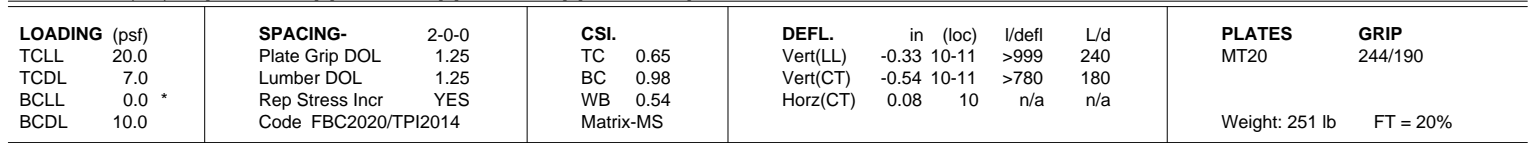
- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-0-6, Interior(1) 2-0-6 to 15-4-15, Exterior(2R) 15-4-15 to 20-3-12, Interior(1) 20-3-12 to 25-10-6, Exterior(2R) 25-10-6 to 30-10-4, Interior(1) 30-10-4 to 36-10-0 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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=319, 12=282.
 - 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 electronically signed and sealed by O'Regan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

June 23,2023

8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:26 2023 Page 1
 ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-qMlZH9fdHrEBsGC13_KMzgmxcxW98YI06IP2?z3qUB
 -1-6-0 | 7-10-0 | 15-4-15 | 20-7-11 | 25-10-8 | 30-6-0 | 35-10-8 | 36-10-0
 1-6-0 | 7-10-0 | 7-6-15 | 5-2-11 | 5-2-11 | 4-7-10 | 4-9-8 | 1-6-8



REACTIONS. (size) 2=0-3-8, 10=0-3-0
 Max Horz 2=300(LC 11)
 Max Uplift 2=-317(LC 12), 10=-284(LC 13)
 Max Grav 2=1555(LC 19), 10=1587(LC 2)

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

TOP CHORD	2-3=-2252/428, 3-4=-1623/373, 4-5=-1237/336, 5-6=-1237/336, 6-7=-1286/293, 8-10=-284/131
BOT CHORD	2-16=-402/1927, 14-16=-402/1931, 13-14=-244/1292, 11-13=-147/1018, 10-11=-134/789
WEBS	3-16=0/411, 3-14=-784/287, 4-14=-114/712, 5-13=-319/164, 6-13=-183/531, 7-11=-109/448, 7-10=-1399/214

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; 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 Exterior(2E) -1-6-0 to 2-0-6, Interior(1) 2-0-6 to 15-4-15, Exterior(2R) 15-4-15 to 20-7-11, Interior(1) 20-7-11 to 25-10-6, Exterior(2R) 25-10-6 to 30-7-0, Interior(1) 30-7-0 to 36-10-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=317, 10=284.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. 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:

June 23, 2023

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

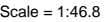
WARNING - verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MH-7433 REV. 3/19/2020 BEFORE USE. Design valid for use only with MiTEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 personnel 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, DSB-89 and BCSI Building Code**

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource, Lake City, FL 32055 8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:27 2023 Page 1
ID:nxAp0lu8aVJEoCbDQLOvp6v5Ask-IZJLWdAHObz5p0rOamWZyBDzh0Qmuji5EmRzaBz3quA



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 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
	2-8,4-6: 2x6 SP No.2		

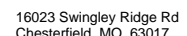
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-462/156, 3-4=-462/156, 2-8=-539/226, 4-6=-539/226
BOT CHORD	7-8=-225/297
WEBS	3-7=-15/251

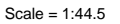
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 7-0-8, Exterior(2R) 7-0-8 to 10-0-8, Interior(1) 10-0-8 to 15-7-8 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=124, 6=124.

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Date:

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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Builders FirstSource, Lake City, FL 32055 8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:28 2023 Page 1
ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-nltjzAv9v5yQ9Qa8U1oROIcFQshd9f?UQBW6tz3qu9



NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; 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 Corner(3E) -1-6-8 to 1-5-8, Exterior(2N) 1-5-8 to 7-0-8, Corner(3R) 7-0-8 to 10-0-8, Exterior(2N) 10-0-8 to 15-7-8 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 12, 17, 15 except (jt=lb) 18=157, 14=152.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. 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:

June 23, 2023



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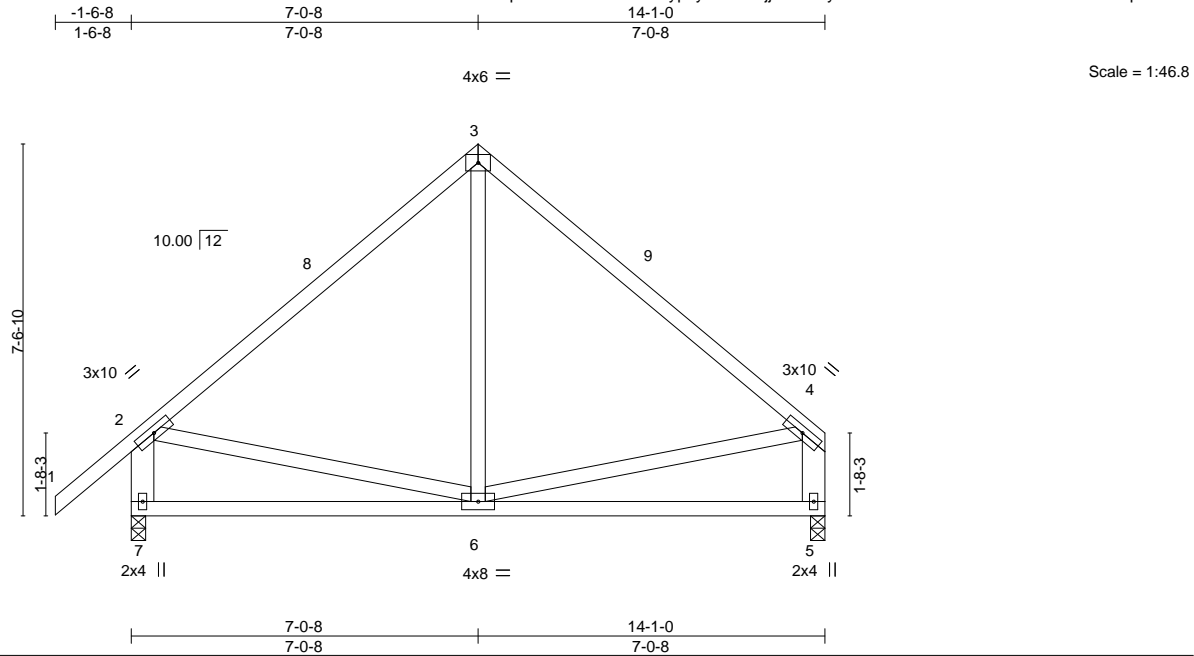
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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.	T30878319
3574425	T18	COMMON	3	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055
ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-nltjjzAv9v5yQ9Qa8U1oROI82Qm?d9z?UQBW6tz3qu9
8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:28 2023 Page 1



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.55	Vert(LL)	-0.04	5-6	>999	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.40	Vert(CT)	-0.09	5-6	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.09	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code FBC2020/TPI2014						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 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 2-7,4-5: 2x6 SP No.2	

REACTIONS.	(size) 7=0-3-8, 5=0-3-8 Max Horz 7=196(LC 9) Max Uplift 7=124(LC 12), 5=87(LC 13) Max Grav 7=606(LC 1), 5=498(LC 1)
------------	--

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-470/156, 3-4=-460/149, 2-7=-546/226, 4-5=-438/154 BOT CHORD 6-7=-239/277
---------	--

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; 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 Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 7-0-8, Exterior(2R) 7-0-8 to 10-0-8, Interior(1) 10-0-8 to 13-10-4 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 7=124.

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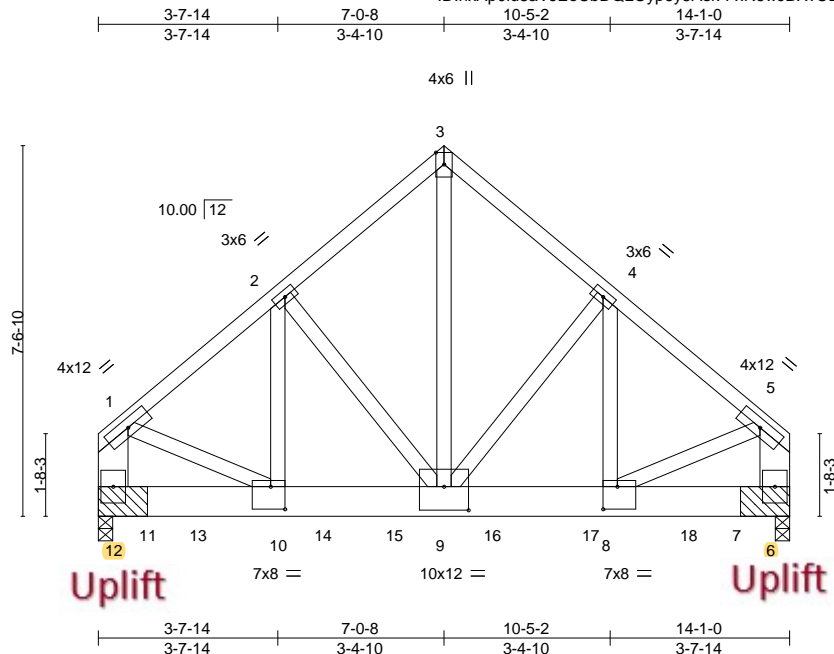
Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 23,2023

Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.	T30878320
3574425	T19	COMMON GIRDER	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:29 2023 Page 1
ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-FxR6wJBXvCDp2J?niBY1zclOWq9_MRA9i4w3fJz3qu8



Scale = 1:46.9

Plate Offsets (X,Y)-- [8:0-3-8,0-5-8], [9:0-6-0,0-5-12], [10:0-3-8,0-5-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d					PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	-0.05	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	-0.09	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 130 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
3-9: 2x4 SP No.2, 1-12,5-6: 2x8 SP 2400F 2.0E

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-3-5 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 12=(0-3-8 + bearing block) (req. 0-4-2), 6=(0-3-8 + bearing block) (req. 0-4-1)
 Max Horz 12=-170(LC 23)
 Max Uplift 12=-740(LC 8), 6=-715(LC 9)
 Max Grav 12=3491(LC 2), 6=3420(LC 2)

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

TOP CHORD 1-2=-3033/667, 2-3=-2483/605, 3-4=-2483/605, 4-5=-3008/658, 1-12=-2823/607,
5-6=-2805/600

BOT CHORD 10-12=-223/427, 9-10=-524/2289, 8-9=-456/2269, 6-8=-89/341

WEBS 3-9=-690/2968, 4-9=-633/233, 4-8=-173/717, 2-9=-664/245, 2-10=-188/757,
1-10=-422/2105, 5-8=-420/2099

NOTES-

- 1) 2x8 SP 2400F 2.0E bearing block 12" long at jt. 12 attached to front face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners. Bearing is assumed to be SP No.2.
- 2) 2x8 SP 2400F 2.0E bearing block 12" long at jt. 6 attached to front face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners. Bearing is assumed to be SP No.2.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; 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) 12=740, 6=715.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1067 lb down and 252 lb up at 2-0-4, 996 lb down and 223 lb up at 4-0-4, 996 lb down and 223 lb up at 6-0-4, 996 lb down and 223 lb up at 8-0-4, and 996 lb down and 223 lb up at 10-0-4, and 996 lb down and 223 lb up at 12-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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Date:

June 23, 2023

Continued on page 2



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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.	T30878320
3574425	T19	COMMON GIRDER	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:29 2023 Page 2
ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-FxR6wJBXvCDp2J?niBY1zclOWq9_MRA9i4w3fJz3qu8

LOAD CASE(S) Standard

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

Uniform Loads (plf)

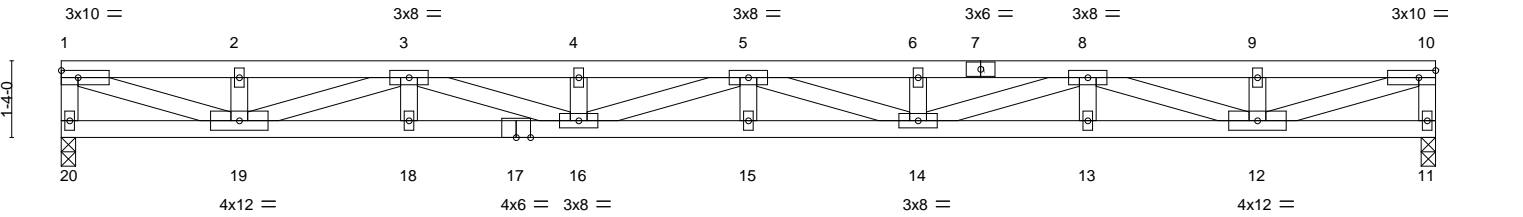
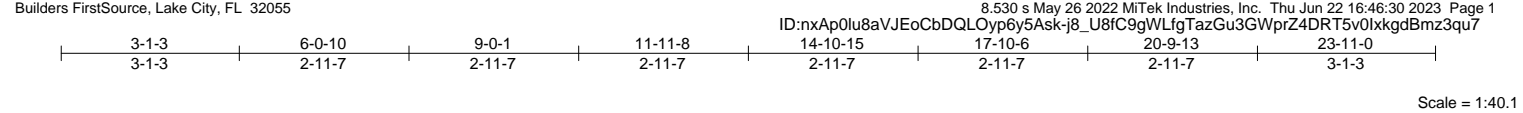
Vert: 1-3=-54, 3-5=-54, 6-12=-20

Concentrated Loads (lb)

Vert: 13=-935(B) 14=-846(B) 15=-846(B) 16=-846(B) 17=-846(B) 18=-846(B)



Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.	T30878321
3574425	TF01	FLOOR	2	2	Job Reference (optional)	



THIS TRUSS IS DESIGNED TO SUPPORT ONLY 2'-0"
OF UNIFORM LOAD AS SHOWN.

3-1-3		6-0-10		9-0-1		11-11-8		14-10-15		17-10-6		20-9-13		23-11-0	
3-1-3		2-11-7		2-11-7		2-11-7		2-11-7		2-11-7		2-11-7		3-1-3	
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL 40.0		Plate Grip DOL 1.00		TC 0.20		Vert(LL) -0.40 15		>702		360		MT20		244/190	
TCDL 10.0		Lumber DOL 1.00		BC 0.46		Vert(CT) -0.56 15		>510		240					
BCLL 0.0		Rep Stress Incr YES		WB 0.76		Horz(CT) 0.06 11		n/a		n/a					
BCDL 5.0		Code FBC2020/TPI2014		Matrix-MS								Weight: 228 lb		FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2850F 2.0E or 2x4 SP M 31	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP 2850F 2.0E or 2x4 SP M 31	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 20=0-3-0, 11=0-3-0
Max Grav 20=1299(LC 1), 11=1299(LC 1)

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

TOP CHORD 1-20=-1239/0, 1-2=-3170/0, 2-3=-3170/0, 3-4=-6780/0, 4-5=-6780/0, 5-6=-6780/0, 6-8=-6780/0, 8-9=-3170/0, 9-10=-3170/0, 10-11=-1239/0

BOT CHORD 18-19=0/5442, 16-18=0/5442, 15-16=0/7233, 14-15=0/7233, 13-14=0/5442, 12-13=0/5442

WEBS 1-19=0/3207, 2-19=-278/0, 3-19=-2409/0, 3-16=0/1419, 4-16=-289/0, 5-16=-480/0, 5-14=-480/0, 6-14=-289/0, 8-14=0/1419, 8-12=-2409/0, 9-12=-278/0, 10-12=0/3207

- NOTES-
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - The Fabrication Tolerance at joint 7 = 20%, joint 17 = 20%
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.

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

June 23,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

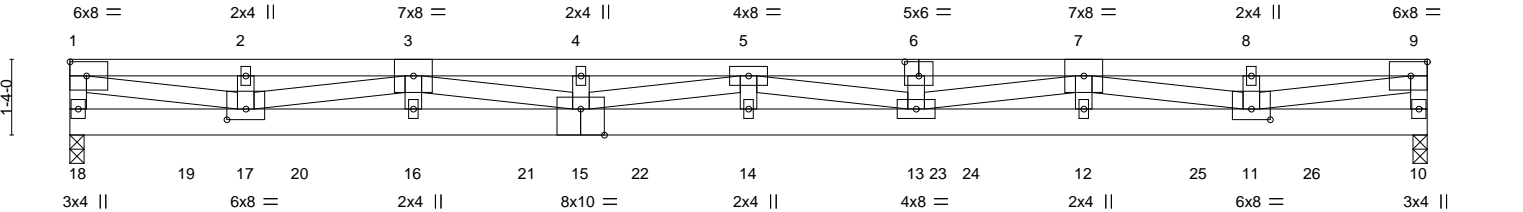
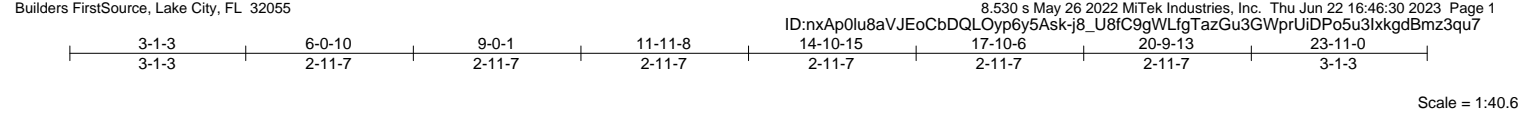
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, DSB-89 and BCSI Building Component**

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.	T30878322
3574425	TF01G	FLOOR	1	4	Job Reference (optional)	



3-1-3		6-0-10		9-0-1		11-11-8		14-10-15		17-10-6		20-9-13		23-11-0	
3-1-3		2-11-7		2-11-7		2-11-7		2-11-7		2-11-7		2-11-7		3-1-3	
Plate Offsets (X,Y)-- [6:0-3-0,0-3-0], [11:0-4-0,0-2-4], [15:0-5-0,Edge], [17:0-4-0,0-2-4]															
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES		GRIP					
TCLL	40.0	Plate Grip DOL 1.00		TC 0.54		Vert(LL) -0.57 13-14 >498 360		MT20		244/190					
TCDL	10.0	Lumber DOL 1.00		BC 0.63		Vert(CT) -0.77 13-14 >368 240									
BCLL	0.0	Rep Stress Incr NO		WB 0.82		Horz(CT) 0.06 10 n/a n/a									
BCDL	5.0	Code FBC2020/TPI2014		Matrix-MS								Weight: 526 lb		FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2850F 2.0E or 2x4 SP M 31	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP M 26	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 1-17,3-17,3-15,5-15,5-13,7-13,7-11,9-11: 2x4 SP No.2	

REACTIONS.	(size) 18=0-3-0, 10=0-3-0
	Max Grav 18=3193(LC 1), 10=3932(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-18=-2777/0, 1-2=-8329/0, 2-3=-8329/0, 3-4=-19727/0, 4-5=-19728/0, 5-6=-22575/0, 6-7=-22580/0, 7-8=-10221/0, 8-9=-10221/0, 9-10=-3378/0
BOT CHORD	17-18=0/559, 16-17=0/15699, 15-16=0/15699, 14-15=0/23559, 13-14=0/23559, 12-13=0/18973, 11-12=0/18973, 10-11=0/690
WEBS	1-17=0/8169, 3-17=-7748/0, 3-16=0/689, 3-15=0/4235, 5-15=-4027/0, 5-14=0/1119, 5-13=-1034/0, 7-13=0/3792, 7-12=0/1254, 7-11=-9201/0, 9-11=0/10020

- NOTES-
- 4-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 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.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 219 lb down at 2-0-12, 219 lb down at 4-0-12, 219 lb down at 6-0-12, 219 lb down at 8-0-12, 219 lb down at 10-0-12, 636 lb down at 11-9-15, 1165 lb down at 15-3-12, 407 lb down at 15-10-12, 407 lb down at 17-10-12, and 407 lb down at 19-10-12, and 407 lb down at 21-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-9=-100, 10-18=-10
Concentrated Loads (lb)
Vert: 16=-219(B) 14=-636(B) 12=-407(B) 19=-219(B) 20=-219(B) 21=-219(B) 22=-219(B) 23=-1165(B) 24=-407(B) 25=-407(B) 26=-407(B)

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

June 23,2023

Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.	T30878323
3574425	TF02	FLOOR	5	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:31 2023 Page 1

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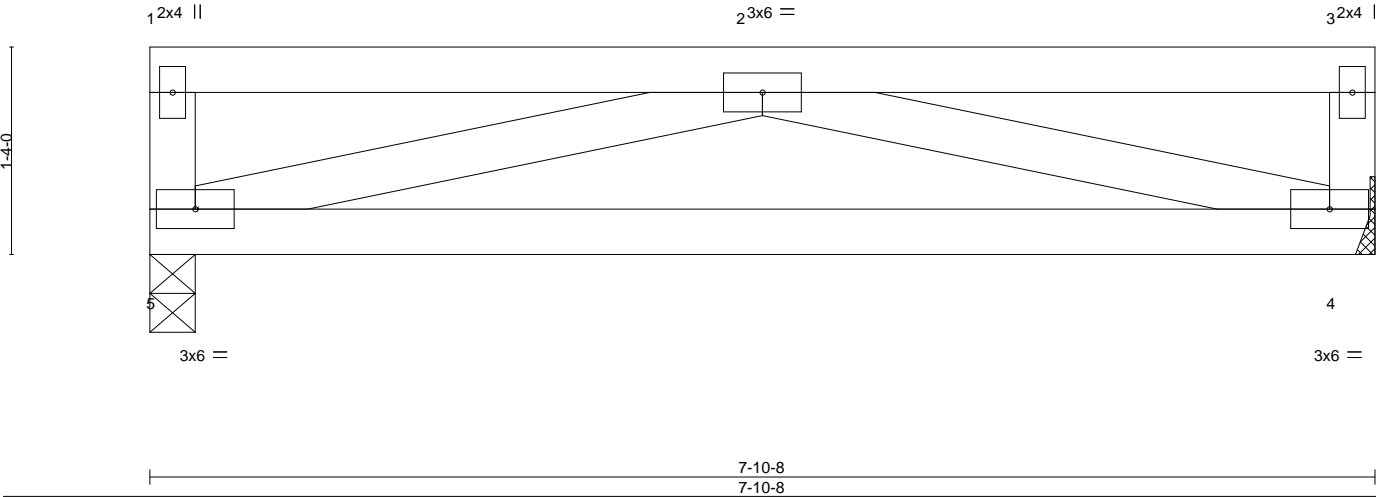
3-11-4

3-11-4

7-10-8

3-11-4

Scale = 1:14.8



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	-0.00	MT20		244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.05				
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.01				
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-MS							
								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, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	
WEBS	2x4 SP No.3		
REACTIONS.			
	(size) 5=0-3-8, 4=Mechanical		
	Max Grav 5=417(LC 1), 4=417(LC 1)		
FORCES.			
	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
BOT CHORD	4-5=0/825		
WEBS	2-5=-766/0, 2-4=-766/0		

- NOTES-**
- 1) Refer to girder(s) for truss to truss connections.
 - 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

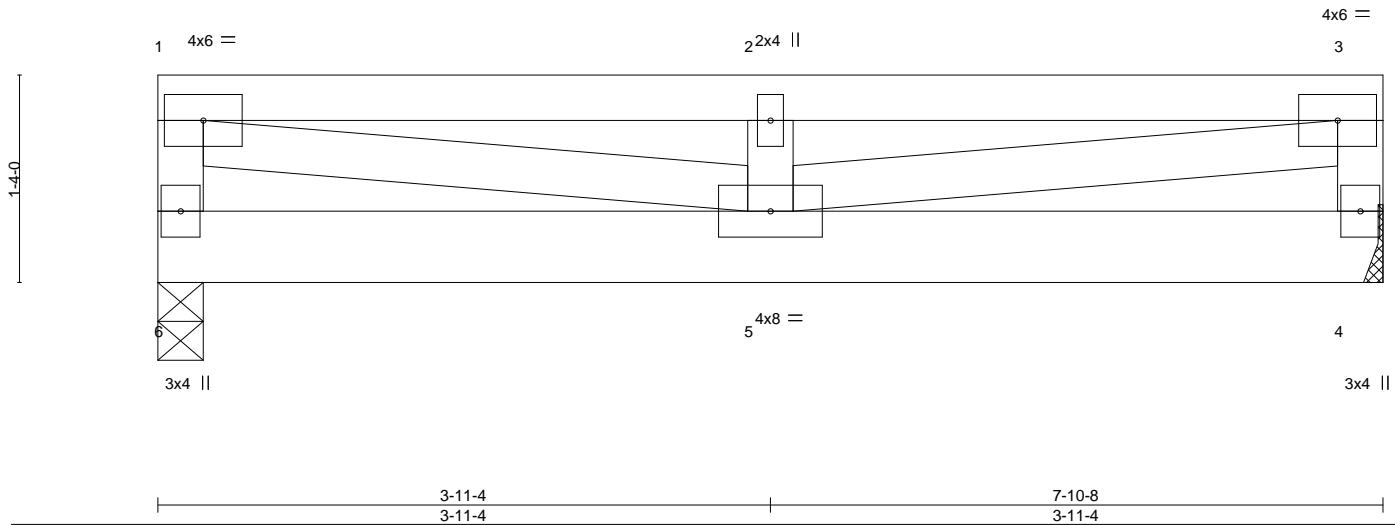
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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 23,2023

8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:31 2023 Page 1
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Scale = 1:14.8



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.49	Vert(LL) -0.04 5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.33	Vert(CT) -0.06 5	>999	240		
BCLL 0.0	Rep Stress Incr NO	WB 0.46	Horz(CT) 0.00 4	n/a	n/a		
BCDL 5.0	Code FBC2020/TPI2014	Matrix-MS				Weight: 86 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 6=0-3-8, 4=Mechanical
Max Grav 6=1175(LC 1), 4=1175(LC 1)

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

TOP CHORD 1-6=-1002/0, 1-2=-2221/0, 2-3=-2221/0, 3-4=-1002/0
BOT CHORD 5-6=0/354, 4-5=0/354
WEBS 1-5=0/1926, 2-5=-1215/0, 3-5=0/1926

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-3=-300, 4-6=-10

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

June 23, 2023



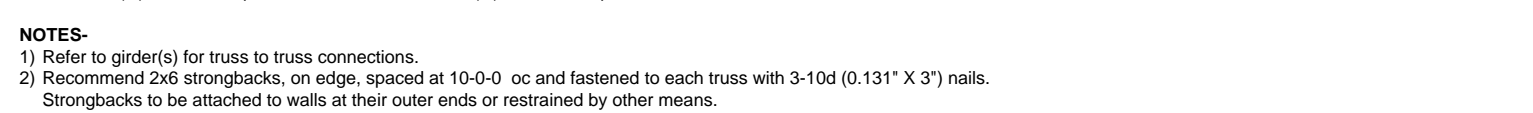
WARNING - verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MH-7433 (REV. 3/19/2020) BEFORE USE. Design valid for use only with MiTEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 personnel 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, DSB-89 and BCSI Building Code**

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Builders FirstSource, Lake City, FL 32055 8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:31 2023 Page 1
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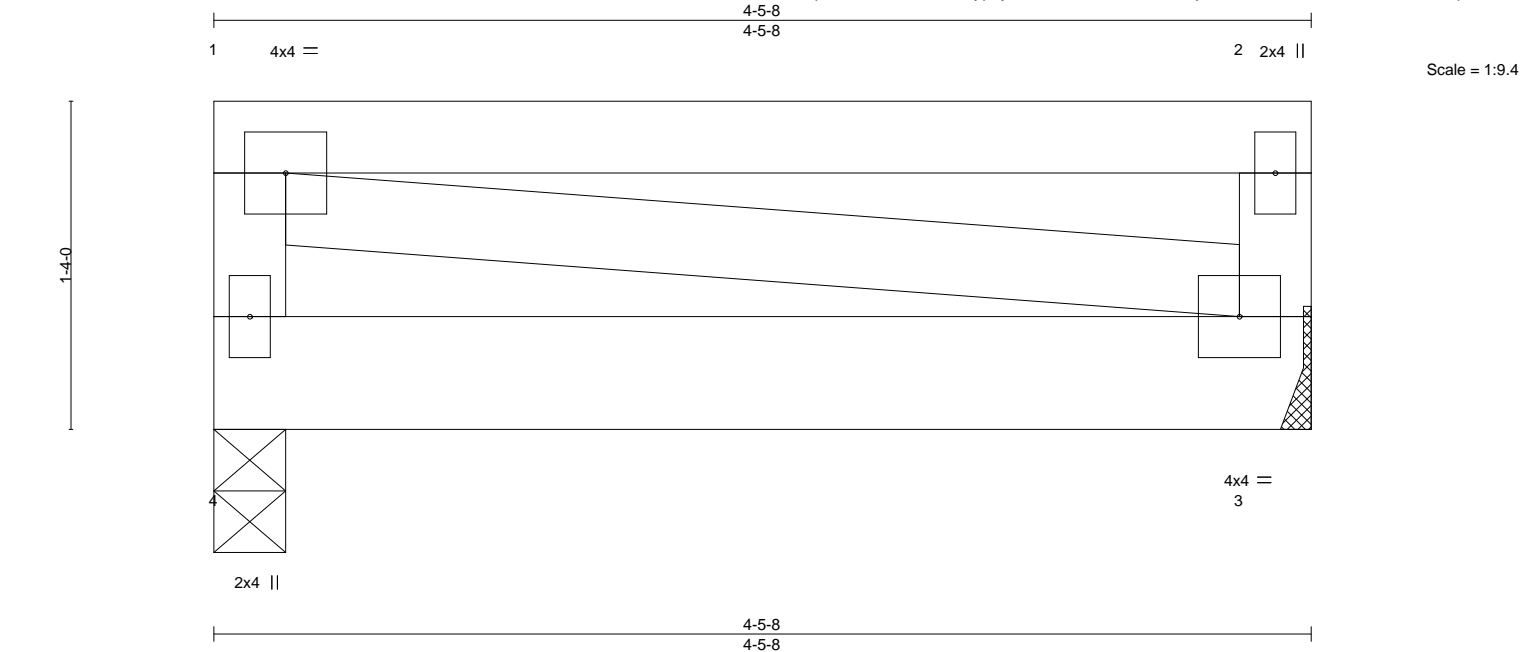
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.	T30878326
3574425	TF05	FLOOR	1	2	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

ID: nxAp0lu8aVJEoCbDQLOyp6y5Ask-fW6EZLDPC7bNvnjMnJ5kbEws61DxZ_QbO29kFez3qu5

8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:32 2023 Page 1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.42	Vert(LL)	0.00	4	****	360	MT20
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	-0.00	3-4	>999	240	244/190
BCLL 0.0	Rep Stress Incr	NO	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 5.0	Code	FBC2020/TPI2014	Matrix-MP						
								Weight: 49 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2850F 2.0E or 2x4 SP M 31	TOP CHORD Structural wood sheathing directly applied or 4-5-8 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=0-3-8, 3=Mechanical
Max Grav 4=646(LC 1), 3=646(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-625/0, 2-3=-625/0

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 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.
 - Refer to girder(s) for truss to truss connections.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-2=-300(F=-200), 3-4=-10

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

June 23,2023

Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.	T30878327
3574425	TG01	ROOF SPECIAL GIRDER	1	2	Job Reference (optional)	

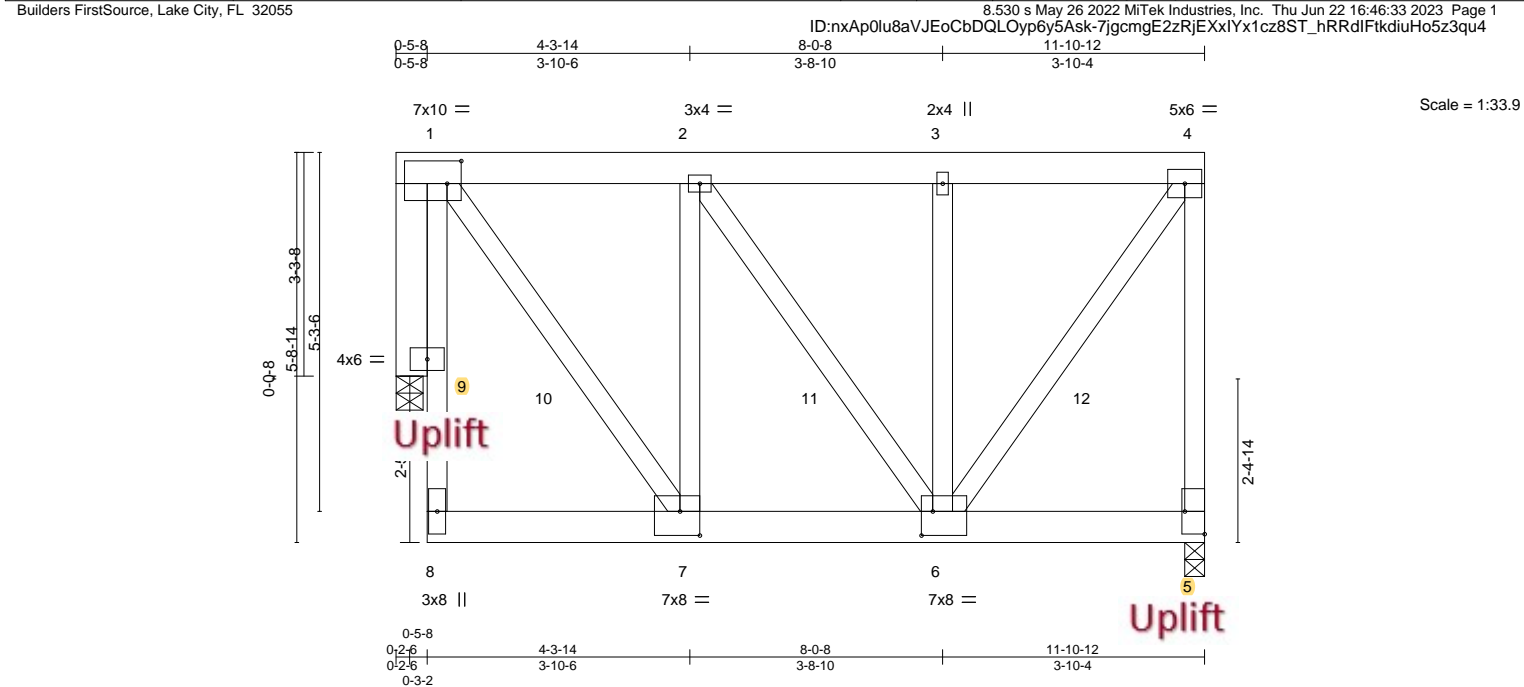


Plate Offsets (X,Y)-- [1:0-2-8,0-4-0], [5:Edge,0-3-8], [6:0-2-0,0-4-4], [7:0-3-8,0-4-4]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.62	in (loc)	L/defl	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(LL)	-0.03 6-7 >999 240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.82	Vert(CT)	-0.06 6-7 >999 180		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS		Horz(CT)	-0.02 5 n/a n/a		
								Weight: 232 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 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 *Except 1-8: 2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x6 SP No.2		
REACTIONS.			
(size) 5=0-3-8, 9=0-4-12			
Max Horz 9=439(LC 4)			
Max Uplift 5=-1376(LC 4), 9=-1465(LC 4)			
Max Grav 5=4857(LC 1), 9=4861(LC 1)			

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-2530/683, 2-3=-2508/705, 3-4=-2508/705, 4-5=-3935/1098
BOT CHORD	8-9=-286/935, 1-9=-3952/1179, 6-7=-683/2530
WEBS	1-7=-1322/4260, 2-7=-866/299, 3-6=-923/233, 4-6=-1209/4304

- NOTES-**
- 2-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, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 2 rows staggered at 0-3-0 oc, 2x6 - 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 7-16; 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.
 - 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.
 - 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 capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=1376, 9=1465.
 - Girder carries tie-in span(s): 15-0-0 from 0-0-0 to 12-2-4; 12-0-0 from 0-0-0 to 12-2-4; 12-0-0 from 0-0-0 to 12-2-4
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 418 lb down and 149 lb up at 2-2-8, 418 lb down and 149 lb up at 4-2-8, 418 lb down and 149 lb up at 6-1-8, and 418 lb down and 149 lb up at 8-1-8, and 418 lb down and 149 lb up at 10-1-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

June 23,2023

LOAD CASE(S) Standard		MiTek	
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>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, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>		<p>16023 Swingley Ridge Rd Chesterfield, MO 63017</p>	

Job	Truss	Truss Type	Qty	Ply	IC CONST - URRUTIA RES.	T30878327
3574425	TG01	ROOF SPECIAL GIRDER	1	2	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

8.530 s May 26 2022 MiTek Industries, Inc. Thu Jun 22 16:46:33 2023 Page 2
ID:nxAp0lu8aVJEoCbDQLOyp6y5Ask-7JgcmgE2zRjEXxIYx1cz8ST_hRRdIFtkdiuHo5z3qu4

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-239(F=-185), 5-8=-446(F=-426)

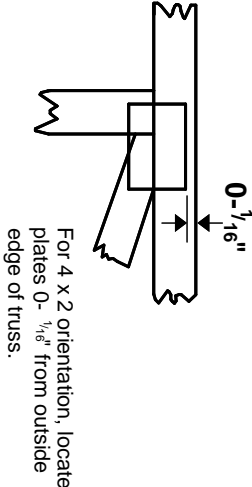
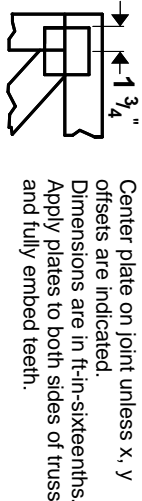
Concentrated Loads (lb)

Vert: 7=-418(F) 6=-418(F) 10=-418(F) 11=-418(F) 12=-418(F)



Symbols

PLATE LOCATION AND ORIENTATION



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

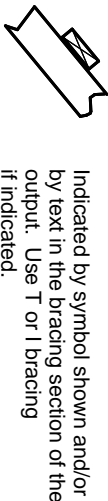
This symbol indicates the required direction of slots in connector plates.

PLATE SIZE

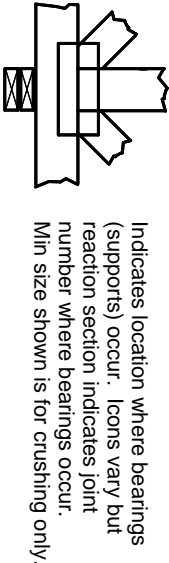
4 X 4

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

LATERAL BRACING LOCATION

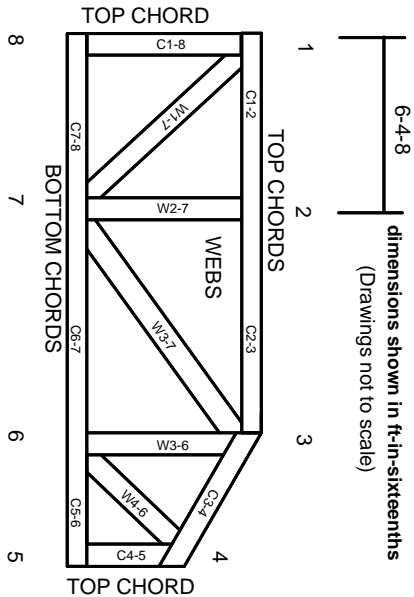


BEARING



Industry Standards:
ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

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

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Mitek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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