



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

RE: 3035595 - RJH CONST. - CANTER HANGER

MiTek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: RJH CONST. Project Name: Canter HAnger Model: Custom
Lot/Block: 6 Subdivision: Cannon Creek
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 8.4
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: 65.0 psf

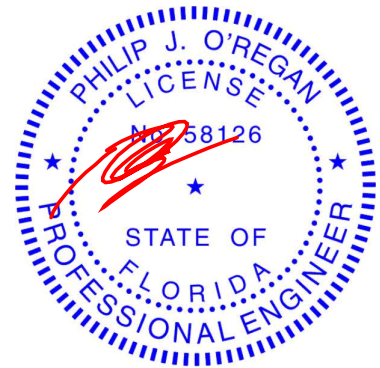
This package includes 7 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T26620820	F01	1/24/22
2	T26620821	F02	1/24/22
3	T26620822	F03	1/24/22
4	T26620823	T01	1/24/22
5	T26620824	T01G	1/24/22
6	T26620825	T02	1/24/22
7	T26620826	T02G	1/24/22

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, 2023.

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



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 24, 2022

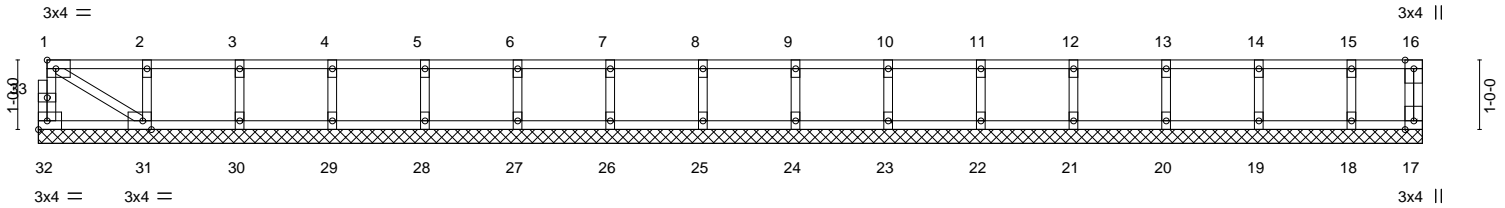
Job	Truss	Truss Type	Qty	Ply	RJH CONST. - CANTER HANGER	T26620820
3035595	F01	GABLE	2	1	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Jan 23 16:17:28 2022 Page 1
ID:4Q6LvwXKhnzjFFgKgaEnyNztAAh-9gDK0Oh60OYbDc3ugHSpXKJG5Bb6k0MY_7p_zuzsQK5

0-1-8

Scale = 1:33.2



	1-6-12	2-10-12	4-2-12	5-6-12	6-10-12	8-2-12	9-6-12	10-10-12	12-2-12	13-6-12	14-10-12	16-2-12	17-6-12	18-10-12	19-11-0
Plate Offsets (X,Y)--	1-6-12	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-0-4
[31:0-1-8,Edge]															
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 0.10		Vert(LL) n/a - n/a 999				MT20		244/190		
TCDL 10.0	Lumber DOL 1.00				BC 0.03		Vert(CT) n/a - n/a 999								
BCLL 0.0	Rep Stress Incr YES				WB 0.03		Horz(CT) 0.00 17 n/a n/a								
BCDL 15.0	Code FBC2020/TPI2014				Matrix-S								Weight: 81 lb FT = 20%F, 11%E		

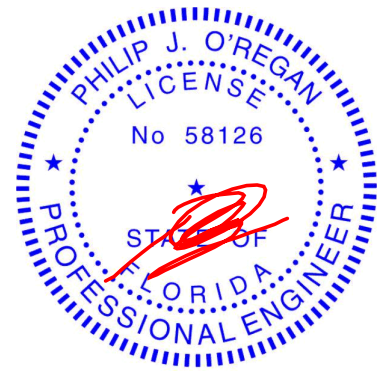
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS. All bearings 19-11-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) 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.
6) CAUTION, Do not erect truss backwards.



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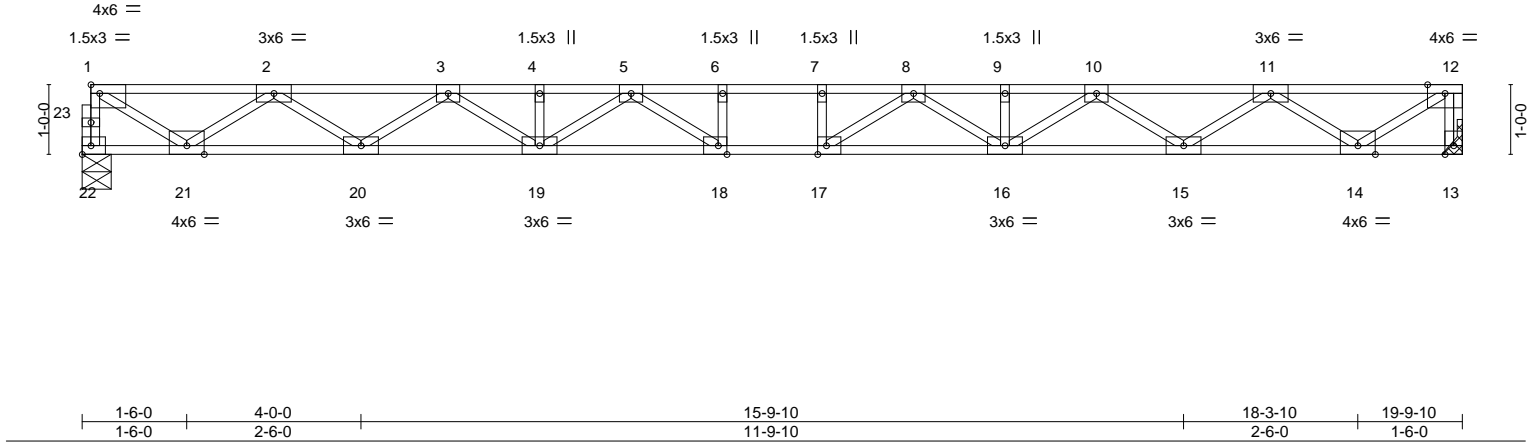
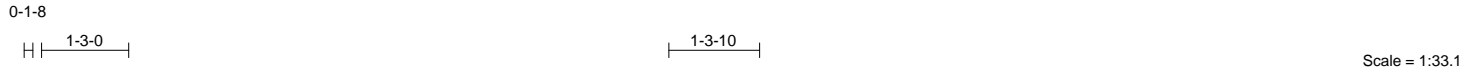
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	RJH CONST. - CANTER HANGER	T26620821
3035595	F02	FLOOR	33	1	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Jan 23 16:17:30 2022 Page 1
ID:4Q6LvwXKhnzjFFgKgaEnyNztAAh-63L5R4iIMY?oJSvDhnhUHclPaX_8dCmoqSRI51nzsQK3



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	-0.34 17-18 >698 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.54	Vert(CT)	-0.55 17-18 >430 240				
BCLL	0.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.07 13 n/a n/a				
BCDL	15.0	Code	FBC2020/TPI2014	Matrix-S							
								Weight: 98 lb FT = 20%F, 11%E			

LUMBER-

TOP CHORD 2x4 SP M 31(flat)
BOT CHORD 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

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.

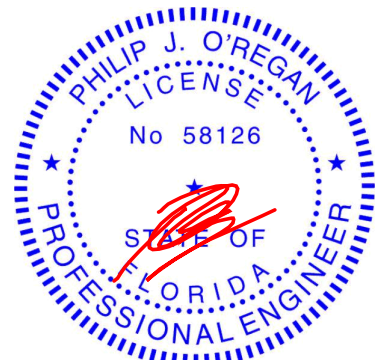
(size) 22=0-5-0, 13=Mechanical
Max Grav 22=843(LC 1), 13=847(LC 1)

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

TOP CHORD 1-22=-834/0, 12-13=-836/0, 1-2=-1202/0, 2-3=-2980/0, 3-4=-4171/0, 4-5=-4171/0, 5-6=-4695/0, 6-7=-4695/0, 7-8=-4695/0, 8-9=-4171/0, 9-10=-4171/0, 10-11=-2980/0, 11-12=-1200/0
BOT CHORD 20-21=0/2231, 19-20=0/3656, 18-19=0/4502, 17-18=0/4695, 16-17=0/4502, 15-16=0/3655, 14-15=0/2232
WEBS 12-14=0/1423, 1-21=0/1373, 11-14=-1260/0, 2-21=-1256/0, 11-15=0/913, 2-20=0/914, 10-15=-824/0, 3-20=-825/0, 10-16=0/620, 3-19=0/619, 8-16=-408/0, 5-19=-408/0, 8-17=-80/491, 5-18=-80/491

NOTES-

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- Required 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.
- CAUTION, Do not erect truss backwards.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 24,2022

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



6904 Parke East Blvd.
Tampa, FL 36610

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Jan 23 16:17:31 2022 Page 1
ID:4Q6LvwXKhziFFgKgaEnyNztAAh-aFuTlQj_JJwA43nTLP?W9zxi?ORGxAr_g51eaDzsQK2

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

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

TOP CHORD 1-22=-1092/0, 12-13=-1095/0, 1-2=-1566/0, 2-3=-3891/0, 3-4=-5451/0, 4-5=-5451/0,
5-6=-6138/0, 6-7=-6138/0, 7-8=-6138/0, 8-9=-5451/0, 9-10=-5451/0, 10-11=-3892/0,
11-12=-1563/0

BOT CHORD 20-21=0/2924, 19-20=0/4785, 18-19=0/5890, 17-18=0/6138, 16-17=0/5890, 15-16=0/4784,
14-15=0/2927

WEBS 12-14=0/1853, 1-21=0/1789, 11-14=-1664/0, 2-21=-1658/0, 11-15=0/1178, 2-20=0/1180,
10-15=-1089/0, 3-20=-1091/0, 10-16=0/802, 3-19=0/801, 8-16=-544/0, 5-19=-544/0,
8-17=-171/685, 5-18=-171/685, 6-18=-252/43, 7-17=-252/43

A circular blue seal for a Professional Engineer in the State of Florida. The outer ring contains the text "PHILIP J. O'REGAN" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside this ring, the word "LICENSE" is at the top and "STATE OF FLORIDA" is at the bottom, also separated by two stars. In the center, the license number "No 58126" is displayed. A red ink signature is written across the center of the seal, overlapping the "STATE OF FLORIDA" text.

January 24, 2022

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6904 Parke East Blvd
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	RJH CONST. - CANTER HANGER	T26620823
3035595	T01	Common	26	1	Job Reference (optional)	

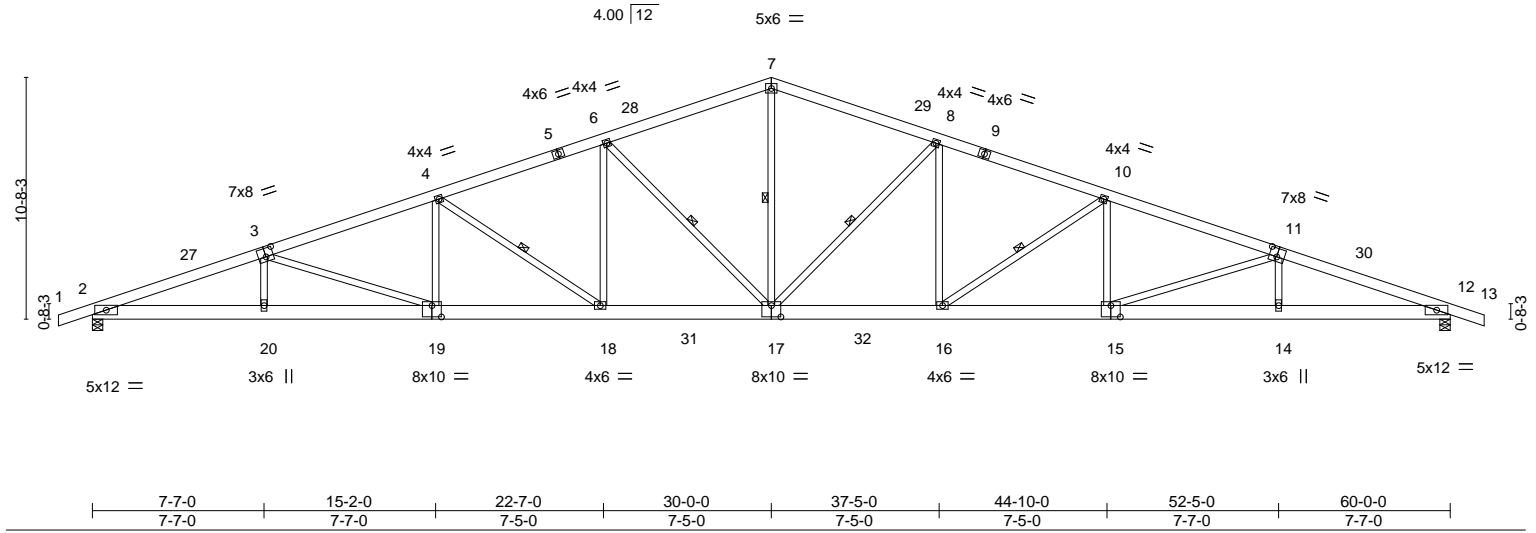
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Jan 23 16:17:34 2022 Page 1

ID:4Q6LvwXKhnzjFFgKgaEnyNztAAh-qacHRmtcEllxXW20XZDnbZBPbZw8XuQN2GIAYzsQK?

1-6-0	7-7-0	15-2-0	22-7-0	30-0-0	37-5-0	44-10-0	52-5-0	60-0-0	61-6-0
1-6-0	7-7-0	7-7-0	7-5-0	7-5-0	7-5-0	7-5-0	7-7-0	7-7-0	1-6-0

Scale = 1:101.8



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	-0.47 16-17 >999	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.87 16-17 >832				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.18 12 n/a				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
								Weight: 475 lb FT = 20%			

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-7-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-5-7 oc bracing.
WEBS 1 Row at midpt 7-17, 8-17, 10-16, 6-17, 4-18

REACTIONS.

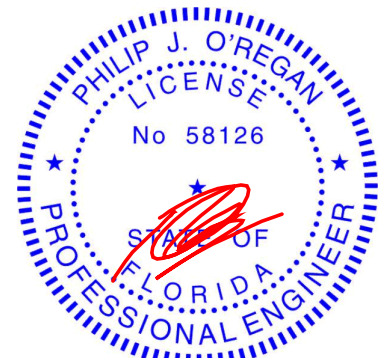
(size) 2=0-5-8, 12=0-5-8
Max Horz 2=234(LC 12)
Max Uplift 2=1073(LC 8), 12=1073(LC 9)
Max Grav 2=2679(LC 2), 12=2679(LC 2)

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

TOP CHORD 2-3=-6748/2783, 3-4=-6155/2594, 4-6=-5190/2272, 6-7=-4212/1947, 7-8=-4212/1947,
8-10=-5190/2272, 10-11=-6155/2594, 11-12=-6748/2783
BOT CHORD 2-20=-2532/6348, 19-20=-2533/6348, 18-19=-2236/5772, 17-18=-1813/4867,
16-17=-1820/4867, 15-16=-2242/5772, 14-15=-2540/6348, 12-14=-2539/6348
WEBS 7-17=-896/2266, 8-17=-1353/686, 8-16=-267/902, 10-16=-1107/568, 10-15=-109/550,
11-15=-640/381, 6-17=-1353/685, 6-18=-267/902, 4-18=-1107/569, 4-19=-109/550,
3-19=-640/377

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=24ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 4-6-0, Interior(1) 4-6-0 to 30-0-0, Exterior(2R) 30-0-0 to 36-0-0, Interior(1) 36-0-0 to 61-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 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 1073 lb uplift at joint 2 and 1073 lb uplift at joint 12.



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MiTek USA, Inc. FL Cert 6634
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Date:

January 24, 2022

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

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	RJH CONST. - CANTER HANGER	T26620824
3035595	T01G	COMMON SUPPORTED GAB	1	1	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Jan 23 16:17:37 2022 Page 1
ID:4Q6LvwXKhnzjFFgKgaEnyNztAAh-PPGkvTolu9gKo_Fdhf6wPDBnGpf0L3ys30UymtzsQJy

1-6-0 30-0-0 60-0-0 61-6-0
1-6-0 30-0-0 30-0-0 1-6-0

Scale = 1:107.6

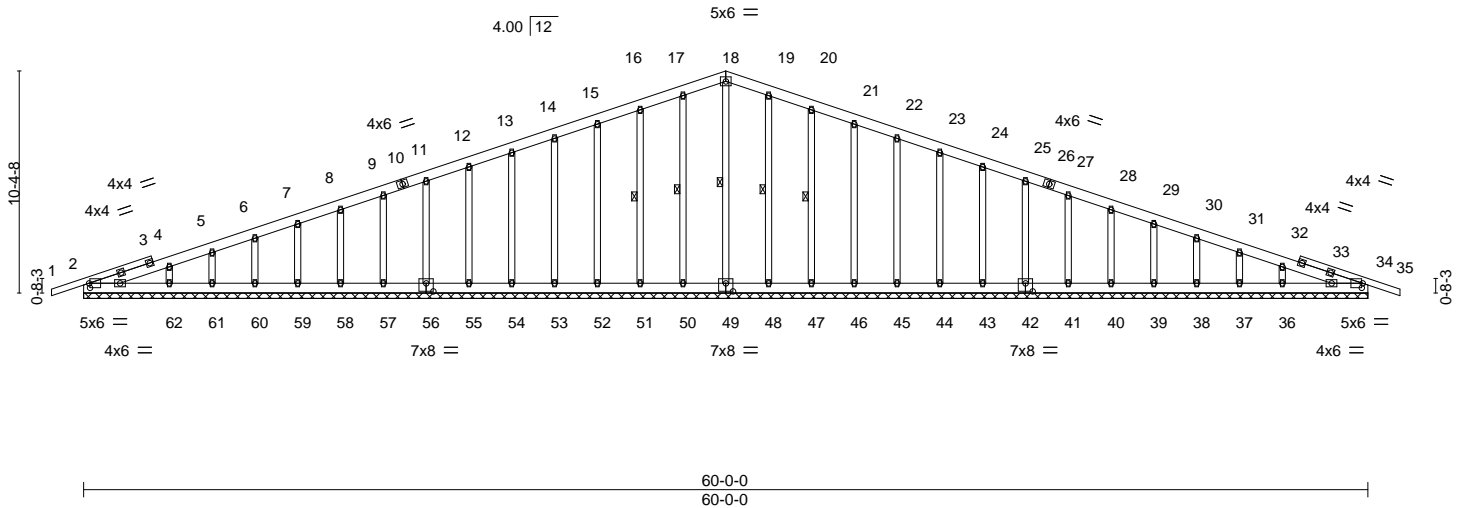


Plate Offsets (X,Y)-- [2:0-0-8,0-2-8], [34:0-0-8,0-2-8], [42:0-4-0,0-4-8], [49:0-4-0,0-4-8], [56:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.13	Vert(LL)	-0.00	35	n/r	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.05	Vert(CT)	-0.01	35	n/r		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT)	0.01	34	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S						
							Weight: 502 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
1-3,33-35: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 18-49, 17-50, 16-51, 19-48, 20-47

REACTIONS.

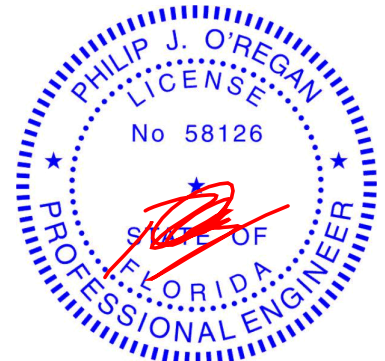
All bearings 60-0-0.
(lb) - Max Horz 2=226(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 50, 51, 52, 53, 54, 55, 56, 57, 58,
59, 60, 61, 48, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37 except 2=-112(LC 8), 62=-129(LC 12), 36=-132(LC 13), 34=-136(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 49, 50, 51, 52, 53, 54, 55, 56,
57, 58, 59, 60, 61, 48, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37 except
2=251(LC 1), 62=270(LC 1), 36=270(LC 1), 34=251(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-259/115, 13-14=-95/266, 14-15=-109/298, 15-16=-123/332, 16-17=-138/369,
17-18=-149/393, 18-19=-149/383, 19-20=-138/339, 20-21=-123/303, 21-22=-109/268

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=24ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 4-6-0, Exterior(2N) 4-6-0 to 30-0-0, Corner(3R) 30-0-0 to 36-0-0, Exterior(2N) 36-0-0 to 61-6-0 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.
- WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBGA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 24,2022

Continued on page 2

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



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	RJH CONST. - CANTER HANGER	T26620824
3035595	T01G	COMMON SUPPORTED GAB	1	1	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Jan 23 16:17:38 2022 Page 2
ID:4Q6LvwXKhznjFFgKgaEnyNztAAh-tbp67ppNfSoBQ8qpFNd9xRky0D?F4WC0HgEWIJzsQJx

NOTES-

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 48, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37 except (jt=lb) 2=112, 62=129, 36=132, 34=136.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

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



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	RJH CONST. - CANTER HANGER	T26620825
3035595	T02	Common	3	1	Job Reference (optional)	

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

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ID:4Q6LvwXKhnzjFFgKgaEnyNztAAh-p_xtYVqeB42ufSzCNogd0sp8P0ZnYEwJL_jdNCzsQJv

1-6-0	7-7-0	15-2-0	22-7-0	30-0-0	37-5-0	44-10-0	52-5-0	60-0-0	61-6-0
1-6-0	7-7-0	7-7-0	7-5-0	7-5-0	7-5-0	7-5-0	7-7-0	7-7-0	1-6-0

Scale = 1:107.3

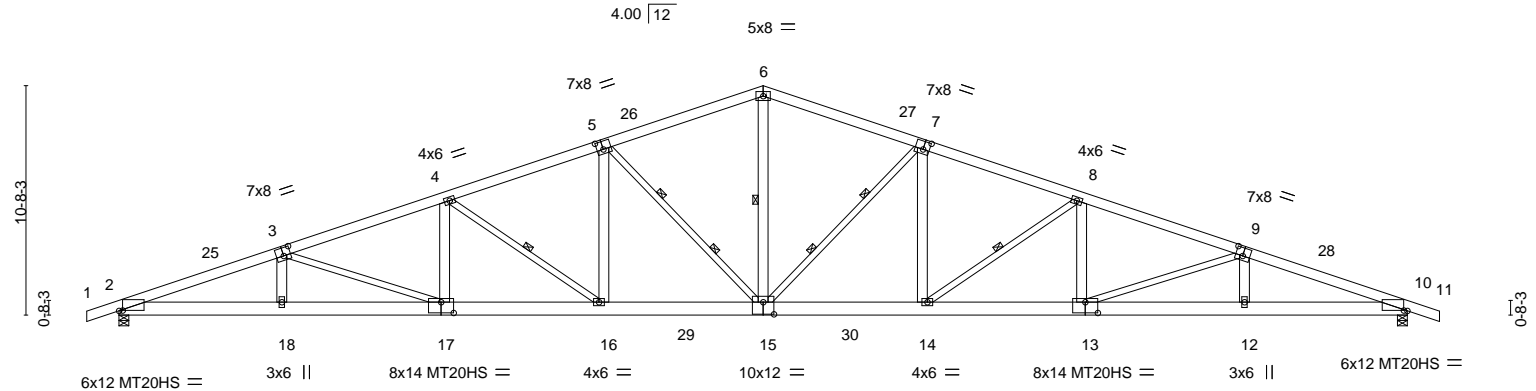


Plate Offsets (X,Y)--	[2:0-2-0,0-0-4], [3:0-4-0,0-4-8], [5:0-3-8,0-4-8], [7:0-3-8,0-4-8], [9:0-4-0,0-4-8], [10:0-2-0,0-0-4], [13:0-7-0,0-6-0], [15:0-6-0,0-6-12], [17:0-7-0,0-6-0]
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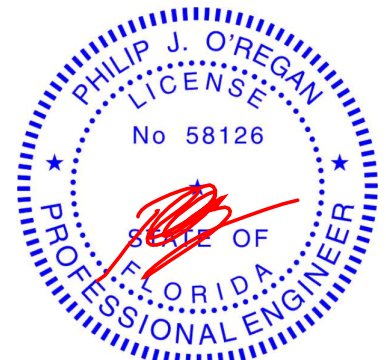
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.78	Vert(LL) 0.65	16	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.55	Vert(CT) -1.11	15-16	>647	180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.96	Horz(CT) 0.26	10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS						
							Weight: 506 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 3-5,7-9: 2x6 SP M 26	TOP CHORD Structural wood sheathing directly applied or 1-10-5 oc purlins.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 5-6-1 oc bracing.
WEBS 2x6 SP No.2 *Except* 7-15,8-14,9-13,5-15,4-16,3-17: 2x4 SP No.3	WEBS 1 Row at midpt 6-15, 8-14, 4-16 2 Rows at 1/3 pts 7-15, 5-15

REACTIONS. (size) 2=0-5-8, 10=0-5-8
Max Horz 2=234(LC 12)
Max Uplift 2=1668(LC 8), 10=1598(LC 9)
Max Grav 2=3795(LC 2), 10=3663(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=9936/4916, 3-4=9172/4618, 4-5=7561/3857, 5-6=6062/3183, 6-7=6062/3183,
7-8=7427/3768, 8-9=8774/4351, 9-10=9557/4663
BOT CHORD 2-18=4549/9362, 17-18=4549/9360, 16-17=4144/8630, 15-16=3328/7138,
14-15=3248/7008, 13-14=3904/8260, 12-13=4316/9002, 10-12=4316/9003
WEBS 6-15=1670/3426, 7-15=1890/1014, 7-14=572/1402, 8-14=1555/821, 8-13=339/919,
9-13=822/471, 9-12=0/302, 5-15=2076/1138, 5-16=687/1575, 4-16=1893/1019,
4-17=509/1179, 3-17=798/456, 3-18=0/293

- 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=24ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 4-6-0, Interior(1) 4-6-0 to 30-0-0, Exterior(2R) 30-0-0 to 36-0-0, Interior(1) 36-0-0 to 61-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1668, 10=1598.



Philip J. O'Regan PE No.58126
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6904 Parke East Blvd. Tampa FL 33610
Date:

January 24,2022

Continued on page 2

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



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	RJH CONST. - CANTER HANGER	T26620825
3035595	T02	Common	3	1	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Jan 23 16:17:40 2022 Page 2
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NOTES-

- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 300 lb down and 176 lb up at 7-7-0, 600 lb down and 351 lb up at 15-2-0, 300 lb down and 176 lb up at 22-7-0, 300 lb down and 176 lb up at 30-0-0, 300 lb down and 176 lb up at 37-5-0, and 300 lb down and 176 lb up at 44-10-0, and 300 lb down and 176 lb up at 52-5-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-6=-60, 6-11=-60, 19-22=-20
- Concentrated Loads (lb)
- Vert: 15=-300(F) 14=-300(F) 13=-300(F) 12=-300(F) 16=-300(F) 17=-600(F) 18=-300(F)

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



6904 Parke East Blvd.
Tampa, FL 36610

6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	RJH CONST. - CANTER HANGER	T26620826
3035595	T02G	GABLE	1	1	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Jan 23 16:17:47 2022 Page 2
ID:4Q6LvwXKhnzjFFgKgaEnyNztAAh-6KsW0uw1YDxv?W0YHmlGpKcK8rzshPwLMawU7lzsQJo

- NOTES-**
- 5) **WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
 - 6) All plates are MT20 plates unless otherwise indicated.
 - 7) All plates are 2x4 MT20 unless otherwise indicated.
 - 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, with BCDL = 10.0psf.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 818 lb uplift at joint 2, 818 lb uplift at joint 16, 2589 lb uplift at joint 26 and 2565 lb uplift at joint 18.
 - 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-9=-60, 9-17=-60, 26-81=-20, 18-26=-120(F=-100), 18-84=-20

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.

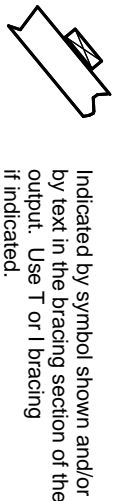
For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

PLATE SIZE

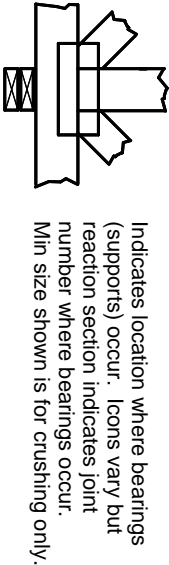
4 X 4

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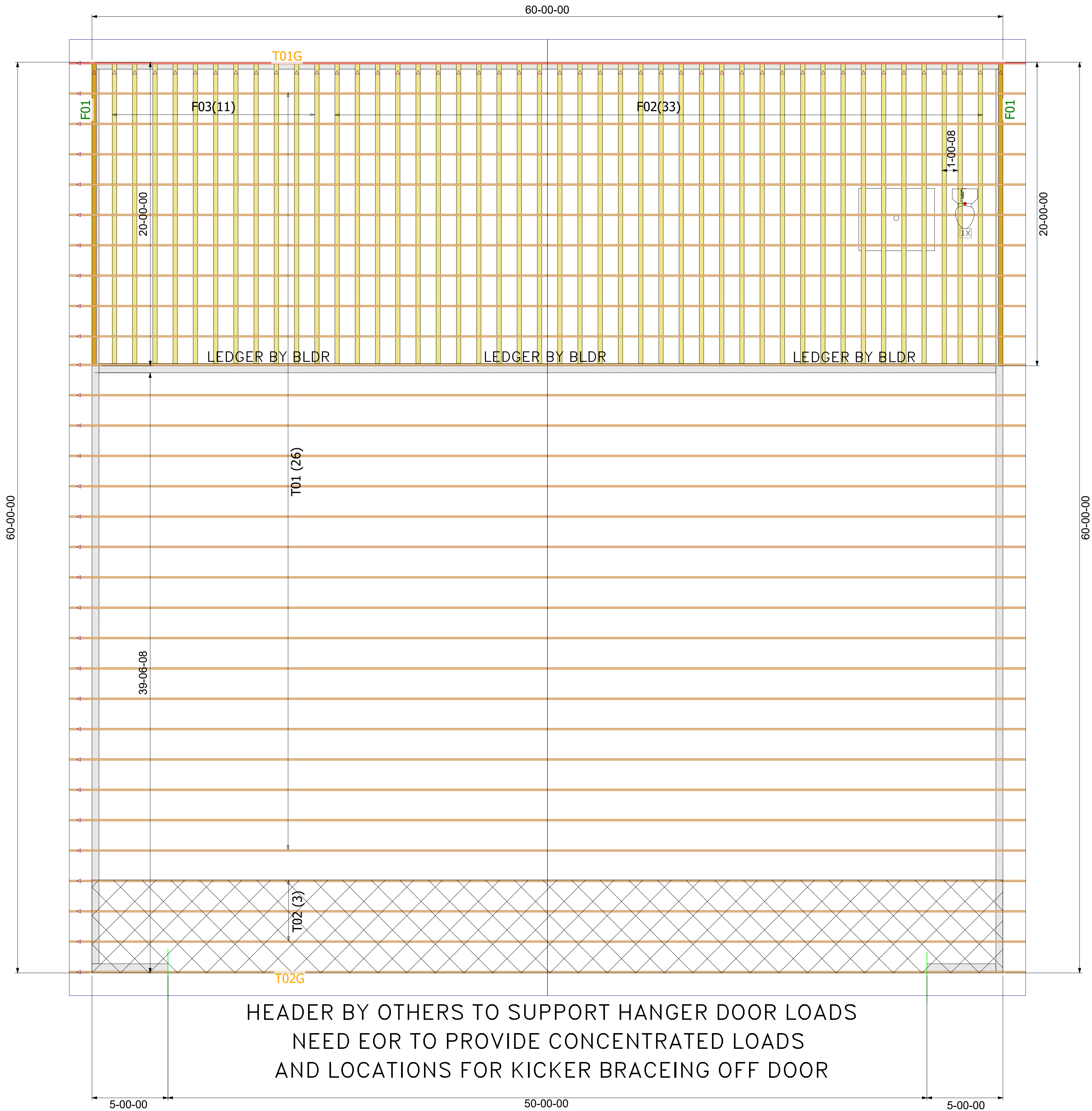
Mitek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

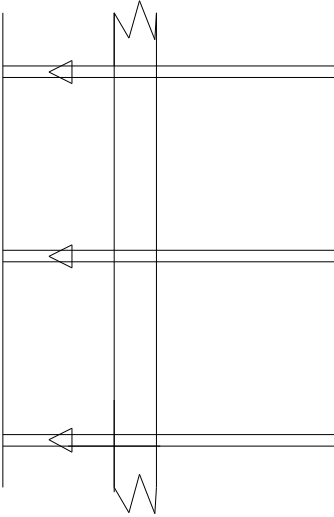
1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed 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.

4/12 PITCH – 18” O/H
FLOORS 12” DEEP – 16” O/C



MITEK PLATE APPROVAL #'S 2197.2–2197.4, BOISE EWP PRODUCT #'S LVL FL1644–R2, BCI JOISTS FL1392–R2

THE ARROW HEAD AT THE
END OF THE TRUSS ON
THE TRUSS PLACEMENT
PLAN (LAYOUT)
CORRESPONDS WITH THE
LEFT SIDE OF THE
INDIVIDUAL TRUSS
DRAWING. USE THIS AS AN
ORIENTATION GUIDE
WHEN SETTING THE
TRUSSES ON THE
STRUCTURE.



- General Notes:
- Per ANSI/TPI 1-2002 all " Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer.
 - Use Manufacturer's specifications for all hanger connections unless noted otherwise.
 - Trusses are to be 24" o.c. U.N.O.
 - All hangers are to be Simpson or equivalent U.N.O.:- Use 10d x 1 1/2" Nails in hanger connections to single ply girder trusses.
 - Trusses are not designed to support brick U.N.O.
 - Dimensions are Feet-Inches- Sixteenths

Notes:

No back charges will be accepted by Builders FirstSource unless approved in writing first.
850-835-4541

ACQ lumber is corrosive to truss plates. Any ACQ lumber that comes in contact with truss plates (i.e. scabbed on tails) must have an approved barrier applied first.

Refer to BCSI-B1 Summary Sheet-Guide for handling, Installing and Bracing of Metal Plate Connected Wood Truss prior to and during truss installation.

It is the responsibility of the Contractor to ensure of the proper orientation of the truss placement plans as to the construction documents and field conditions of the structure orientation. If a reversed or flipped layout is required, it will be supplied at no extra cost by Builders FirstSource.

It is the responsibility of the Contractor to make sure the placement of trusses are adjusted for plumbing drops, can lights, ect.... so the trusses do not interfere with these type of items.

All common framed roof or floor systems must be designed as to NOT impose any loads on the floor trusses below. The floor trusses have not been designed to carry any additional loads from above.

This truss placement plan was not created by an engineer, but rather by the Builders FirstSource staff and is solely to be used as an installation guide and does not require a seal. Complete truss engineering and analysis can be found on the truss design drawings which may be sealed by the truss design engineer.

Gable end trusses require continuous bottom chord bearing. Refer to local codes for wall framing requirements.

Although all attempts have been made to do so, trusses may not be designed symmetrically. Please refer to the individual truss drawings and truss placement plans for proper orientation and placement.



Lake City
PHONE: 386-755-6894
FAX: 386-755-7973

Jacksonville
PHONE: 904-772-6100
FAX: 904-772-1973

Tallahassee
PHONE: 850-576-5177

Builder: RJH CONST.		
Legal Address: Canter Airplane Hanger		
Model: Custom		
Date: 1-21-22	Drawn By: KLH	Original Ref #: 3035595
Floor 1 Job#: N/A	Floor 2 Job#: N/A	Roof Job #: 3035595