



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

RE: 2280164 - CORNERSTONE - 1740 MODEL

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: Cornerstone Dev. Project Name: Spec Hse Model: 1740
Lot/Block: 93 Subdivision: Emerald Cove
Address: TBD, N/A
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: FBC2017/TPI2014 Design Program: MiTek 20/20 8.2
Wind Code: ASCE 7-10 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 34 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	T19630194	CJ01	3/9/20	23	T19630216	T09	3/9/20
2	T19630195	CJ01A	3/9/20	24	T19630217	T10	3/9/20
3	T19630196	CJ03	3/9/20	25	T19630218	T11	3/9/20
4	T19630197	CJ03A	3/9/20	26	T19630219	T12	3/9/20
5	T19630198	CJ05	3/9/20	27	T19630220	T13	3/9/20
6	T19630199	CJ05A	3/9/20	28	T19630221	T14	3/9/20
7	T19630200	EJ01	3/9/20	29	T19630222	T15	3/9/20
8	T19630201	EJ02	3/9/20	30	T19630223	T16	3/9/20
9	T19630202	HJ10	3/9/20	31	T19630224	T17	3/9/20
10	T19630203	HJ10A	3/9/20	32	T19630225	T18	3/9/20
11	T19630204	PB01	3/9/20	33	T19630226	T19	3/9/20
12	T19630205	PB02	3/9/20	34	T19630227	T20	3/9/20
13	T19630206	T01	3/9/20				
14	T19630207	T01G	3/9/20				
15	T19630208	T02	3/9/20				
16	T19630209	T03	3/9/20				
17	T19630210	T04	3/9/20				
18	T19630211	T04G	3/9/20				
19	T19630212	T05	3/9/20				
20	T19630213	T06	3/9/20				
21	T19630214	T07	3/9/20				
22	T19630215	T08	3/9/20				



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-Jacksonville.

Truss Design Engineer's Name: Velez, Joaquin

My license renewal date for the state of Florida is February 28, 2021.

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.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 9, 2020

Velez, Joaquin

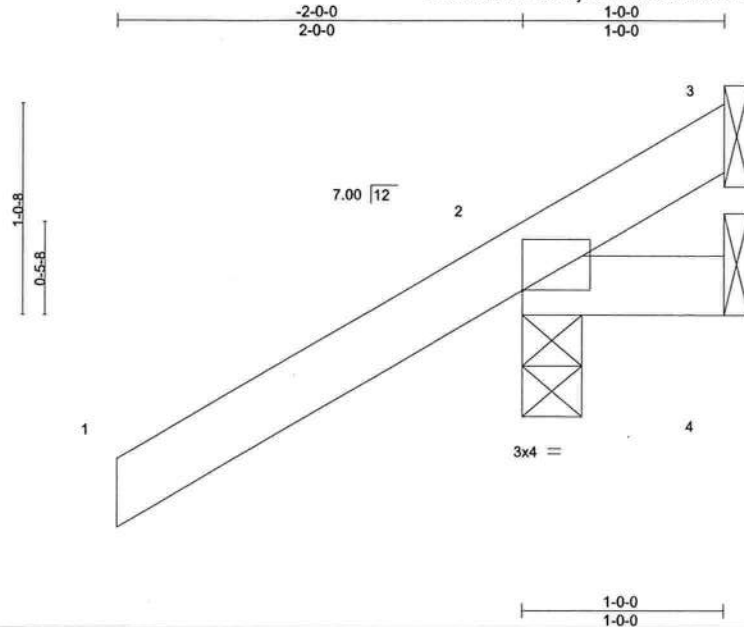
1 of 1

73

Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - 1740 MODEL	T19630194
2280164	CJ01	Jack-Open	2	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:20 2020 Page 1
ID:2eRY39KFhR2benj7cX74RUzckGi-w8LWvB4OXkgoEcRqUIEGhSNhBNSg_F0n7j6x02zciBL



Scale = 1:10.9

Plate Offsets (X,Y)-- [2:0-0-0,0-0-0]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	0.00 7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	0.00 7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00 2	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MP						Weight: 7 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=77(LC 12)
Max Uplift 3=-27(LC 1), 2=-160(LC 12), 4=-46(LC 1)
Max Grav 3=23(LC 16), 2=254(LC 1), 4=45(LC 16)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=160.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 9,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

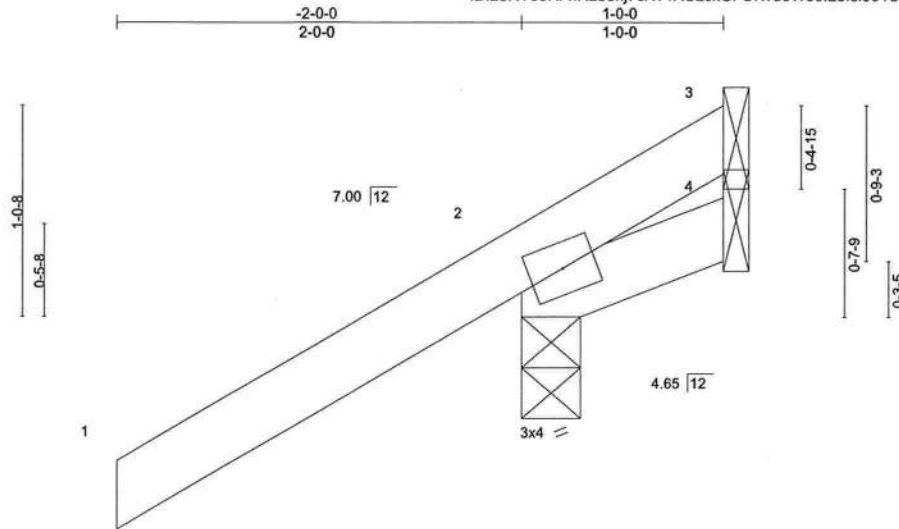


6904 Parke East Blvd.
Tampa, FL 36610

Job 2280164	Truss CJ01A	Truss Type Jack-Open	Qty 2	Ply 1	CORNERSTONE - 1740 MODEL T19630195
----------------	----------------	-------------------------	----------	----------	---------------------------------------

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:21 2020 Page 1
ID:2eRY39KFhR2benj7cX?4RUzckGi-OKvu6W50I2ofsi001SmVDfwswnoCjiGwLnrUYUzclbK



Scale = 1:10.9

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 0.32	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	0.00	7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MP						Weight: 7 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=77(LC 12)
Max Uplift 3=-28(LC 1), 2=-152(LC 12), 4=-45(LC 1)
Max Grav 3=22(LC 16), 2=254(LC 1), 4=40(LC 16)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=152.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 9,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

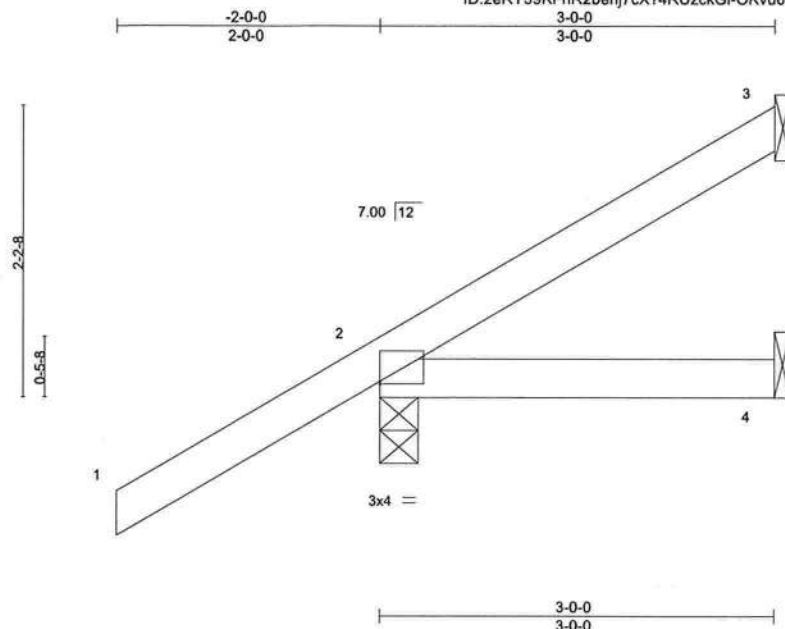
MiTek

6904 Parke East Blvd.
Tampa, FL 36610

Job 2280164	Truss CJ03	Truss Type Jack-Open	Qty 2	Ply 1	CORNERSTONE - 1740 MODEL Job Reference (optional)	T19630196
----------------	---------------	-------------------------	----------	----------	--	-----------

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:21 2020 Page 1
ID:2eRY39KFhR2benj7cX74RUzckGi-OKvu6W50I2ofsI001SmVdfwswnnKjiGwLNRUYUzcbK



Scale = 1:16.8

Plate Offsets (X,Y)-- [2-0-0-0,0-0-4]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES
TCLL 20.0	Plate Grip DOL	1.25	TC 0.32	Vert(LL)	-0.01	4-7	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.13	Vert(CT)	-0.01	4-7	>999	180	GRIP
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a	244/190
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MP						Weight: 13 lb
									FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=132(LC 12)
Max Uplift 3=-56(LC 12), 2=-118(LC 12)
Max Grav 3=63(LC 19), 2=253(LC 1), 4=49(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=118.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 9,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek

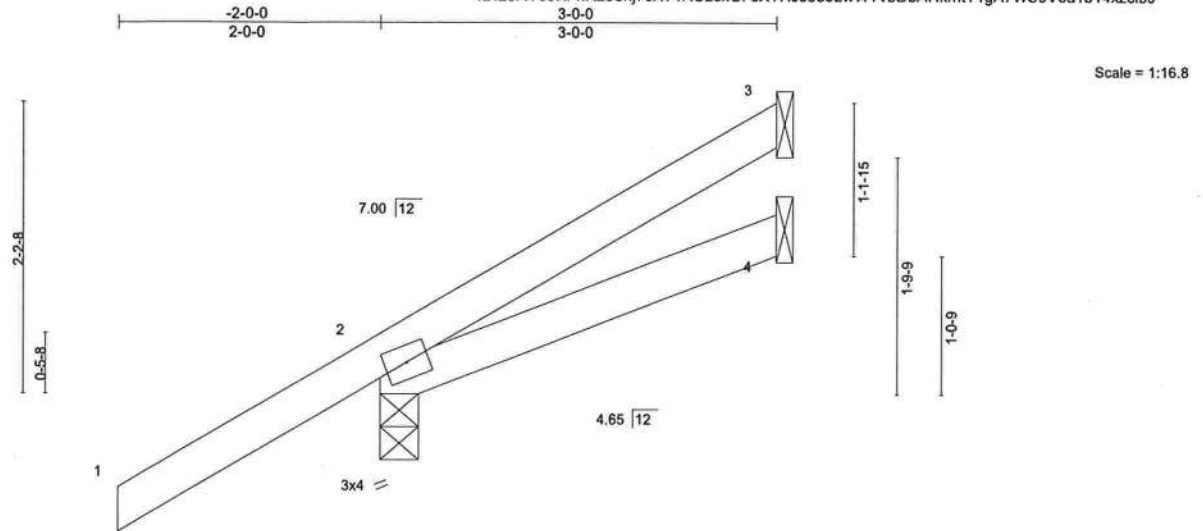
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - 1740 MODEL	T19630197
2280164	CJ03A	Jack-Open	2	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:22 2020 Page 1

ID:2eRY39KFhR2benj7cX74RUzckGi-sXTHJs5e3LwWTvDbAHkmt1gA7WS9V3a1b14xzcibJ



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 0.32	Vert(LL)	-0.01	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.14	Vert(CT)	-0.01	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MP						Weight: 14 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=132(LC 12)
Max Uplift 3=57(LC 12), 2=114(LC 12)
Max Grav 3=63(LC 19), 2=253(LC 1), 4=48(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=114.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 9, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

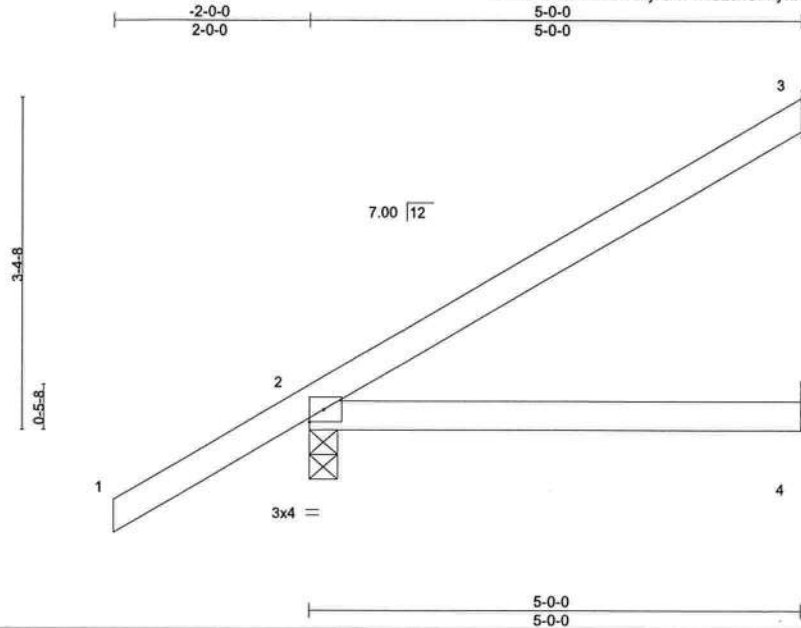
MiTek

6904 Parke East Blvd.
Tampa, FL 36610

Job 2280164	Truss CJ05	Truss Type Jack-Open	Qty 2	Ply 1	CORNERSTONE - 1740 MODEL Job Reference (optional)	T19630198
----------------	---------------	-------------------------	----------	----------	--	-----------

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:23 2020 Page 1
ID:2eRY39KFhR2benj7cX74RUzckGi-Kj1fXC6Gqf2N53AP9tozI47BnaRJBclDphKbdNzcbl



Scale = 1:22.5

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.36	Vert(LL) -0.04	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.29	Vert(CT) -0.07	4-7	>869	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.01	3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MP					Weight: 20 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=189(LC 12)
Max Uplift 3=-110(LC 12), 2=-124(LC 12), 4=-1(LC 12)
Max Grav 3=126(LC 19), 2=313(LC 1), 4=88(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=110, 2=124.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 9,2020

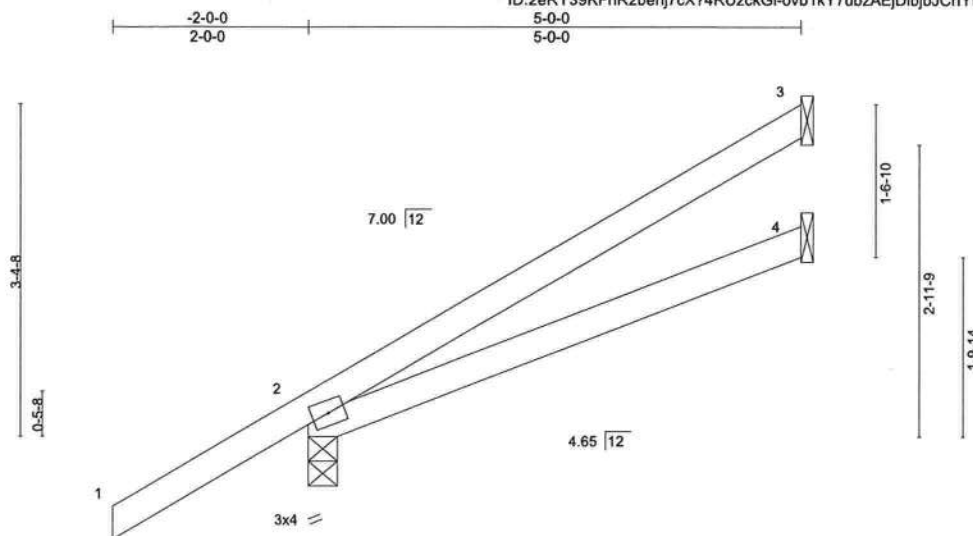
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek

6904 Parke East Blvd.
Tampa, FL 36610

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:24 2020 Page 1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.36	Vert(LL)	-0.04	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.30	Vert(CT)	-0.07	4-7	>809	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MP						Weight: 20 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=189(LC 12)
Max Uplift 3=-111(LC 12), 2=-120(LC 12), 4=-4(LC 12)
Max Grav 3=126(LC 19), 2=313(LC 1), 4=87(LC 3)

FORCES.

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=111, 2=120.



Joaquin Velez PE No.68182
MITek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 9, 2020



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 is required to be provided to all truss webs and chord members only. Additional temporary bracing and shoring is required. This design is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the design, fabrication, storage, delivery, erection and bracing of trusses and steel systems, see **ANSI/TPI 1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information**, available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



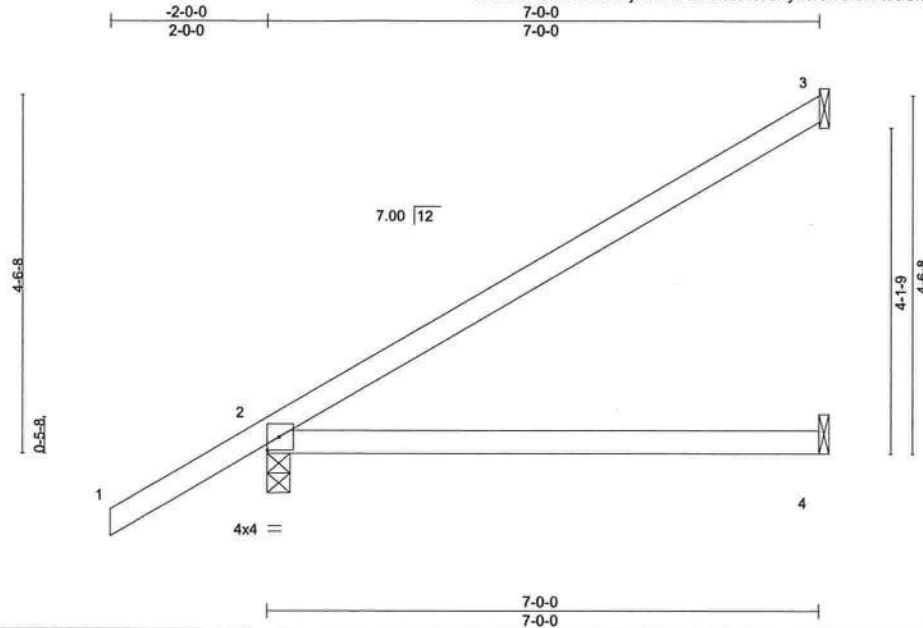
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - 1740 MODEL	T19630200
2280164	EJ01	Jack-Partial	16	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8,240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:25 2020 Page 1

ID:2eRY39KFhR2benj7cX74RUzckGi-H59Pyu8XMG15KNJoG1qROV5RqO2zFWFWG?pihGzcibG



Scale = 1:28.1

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.71	Vert(LL)	-0.13	4-7	>656	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.54	Vert(CT)	-0.25	4-7	>339	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.02	3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						Weight: 26 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=168(LC 12)
 Max Uplift 3=-105(LC 12), 2=-69(LC 12)
 Max Grav 3=177(LC 19), 2=380(LC 1), 4=126(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 3=105.



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

March 9, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

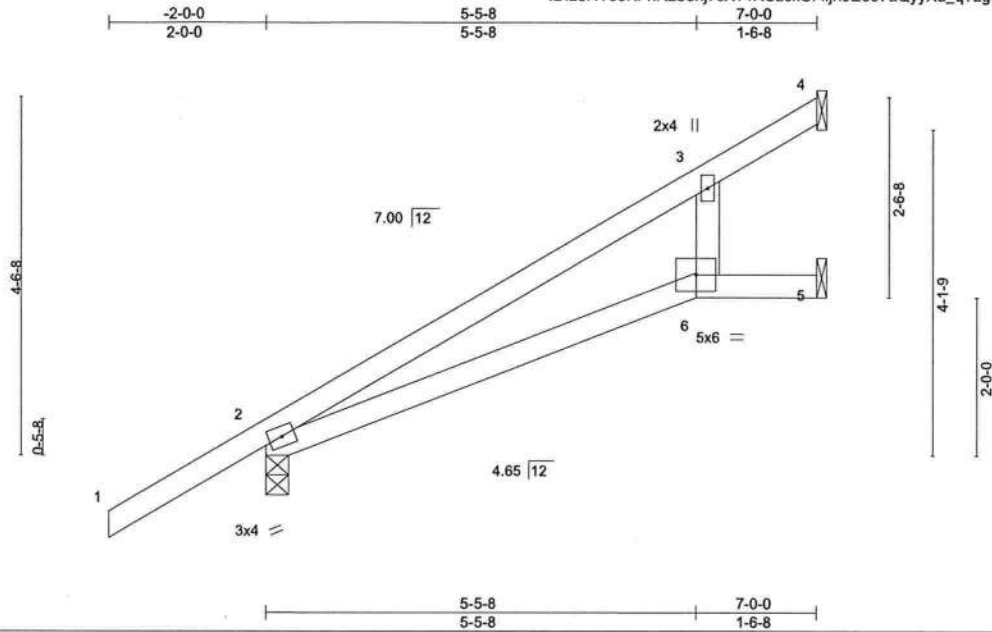
MiTek

6904 Parke East Blvd.
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - 1740 MODEL	T19630201
2280164	EJ02	Jack-Partial	9	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:26 2020 Page 1
ID:2eRY39KFhR2benj7cX74RUzckGi-Iljn9E897aQyyXu_q?LgwjdcrOzOzxfVfZFEzicbF



Scale = 1:28.1

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.69	Vert(LL)	-0.17	6-9	>490	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.55	Vert(CT)	-0.29	6-9	>291	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.08	5	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						Weight: 29 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=168(LC 12)
Max Uplift 4=-67(LC 12), 2=-66(LC 12), 5=-38(LC 12)
Max Grav 4=169(LC 19), 2=380(LC 1), 5=93(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 9,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek

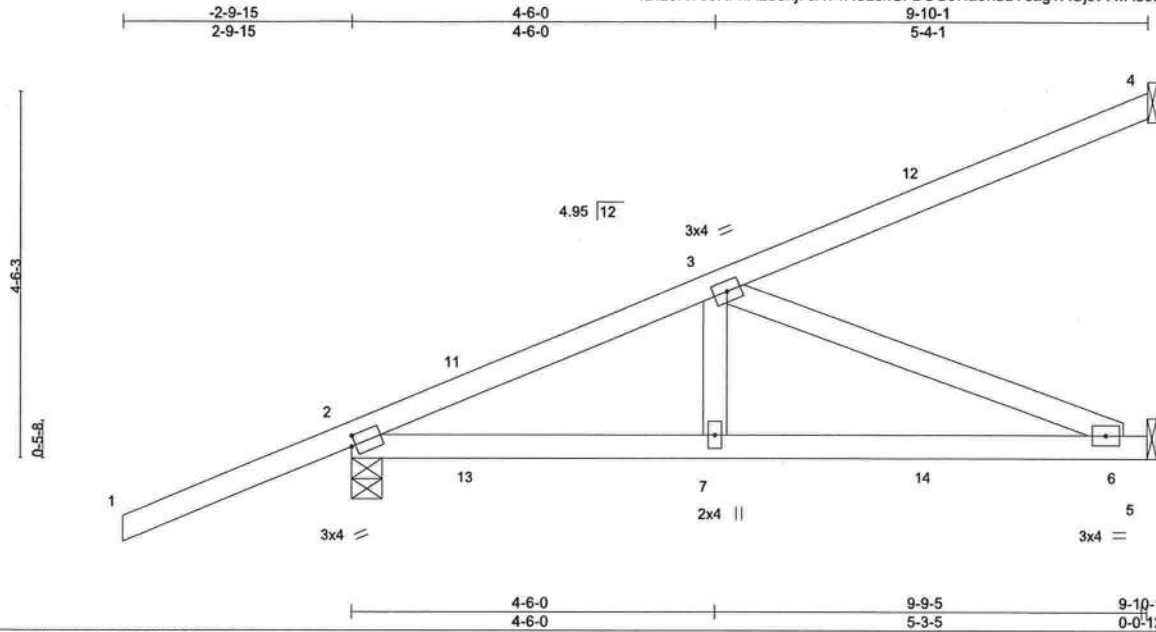
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - 1740 MODEL	T19630202
2280164	HJ10	Diagonal Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:27 2020 Page 1

ID:2eRY39KFhR2benj7cX74RUzckGi-DUG9Na9nuuYoagTAOjsvTwAo0BjW7LPpkJlom8zciB



Scale = 1:27.3

Plate Offsets (X,Y)-- [2-0-0-10,0-1-8]

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 0.60	Vert(LL)	0.06	6-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.59	Vert(CT)	-0.12	6-7	>969	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.34	Horz(CT)	-0.01	4	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						Weight: 46 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-0-8 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=245(LC 26)
Max Uplift 4=-148(LC 8), 2=-329(LC 4), 5=-151(LC 8)
Max Grav 4=151(LC 1), 2=462(LC 1), 5=281(LC 34)

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

TOP CHORD 2-3=-750/296
BOT CHORD 2-7=-404/545, 6-7=-404/545
WEBS 3-6=-587/435

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=148, 2=329, 5=151.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 82 lb down and 103 lb up at 1-6-1, 82 lb down and 103 lb up at 1-6-1, 108 lb down and 46 lb up at 4-4-0, 108 lb down and 46 lb up at 4-4-0, and 143 lb down and 109 lb up at 7-1-15, and 143 lb down and 109 lb up at 7-1-15 on top chord, and 37 lb down and 74 lb up at 1-6-1, 37 lb down and 74 lb up at 1-6-1, 27 lb down and 4 lb up at 4-4-0, 27 lb down and 4 lb up at 4-4-0, and 50 lb down and 16 lb up at 7-1-15, and 50 lb down and 16 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 5-8=-20

Concentrated Loads (lb)

Vert: 7=7(F=4, B=4) 11=51(F=25, B=25) 12=-66(F=-33, B=-33) 13=68(F=34, B=34) 14=-47(F=-23, B=-23)



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 9,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek

6904 Parke East Blvd.
Tampa, FL 33610



Weight: 47 lb FT = 20%

TOP CHORD	Structural wood sheathing directly applied or 4-11-6 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-7-11 oc bracing.

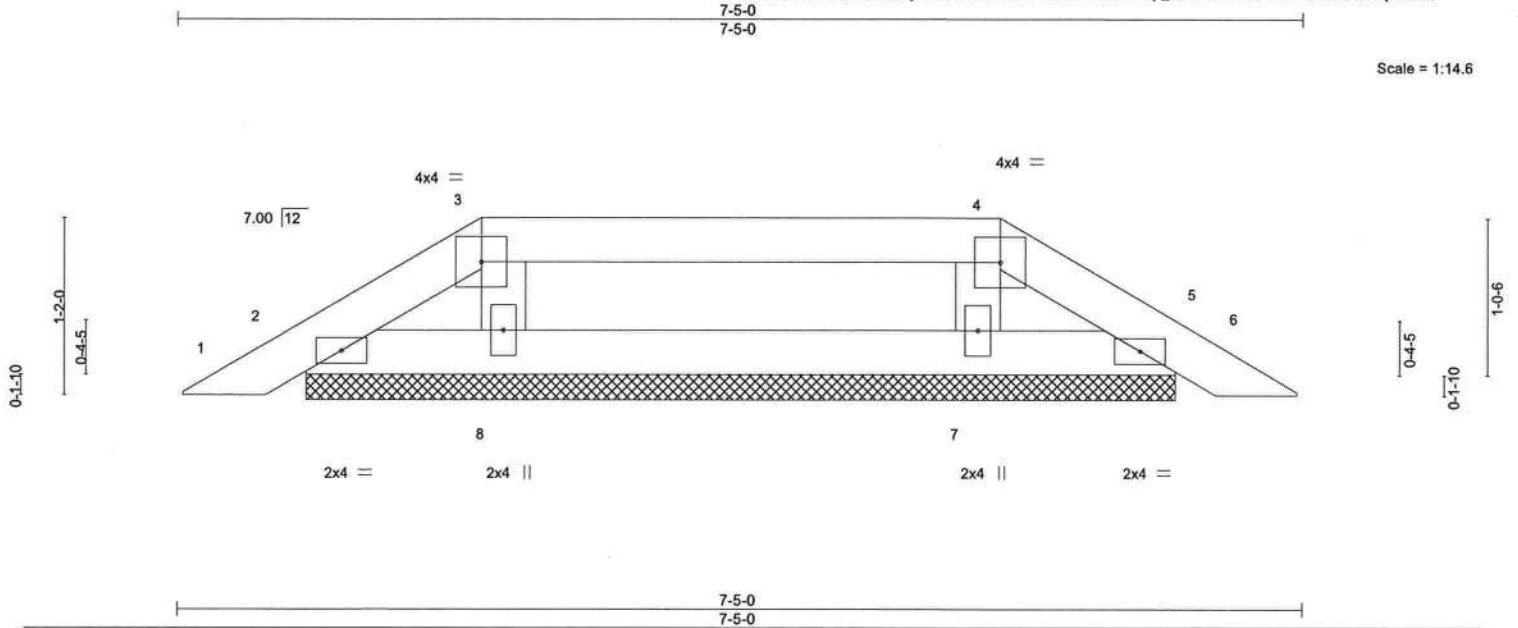
6904 Parke East Blvd.
Tampa, FL 36610

Job 2280164	Truss PB01	Truss Type Piggyback	Qty 2	Ply 1	CORNERSTONE - 1740 MODEL Job Reference (optional)	T19630204
----------------	---------------	-------------------------	----------	----------	--	-----------

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:29 2020 Page 1

ID:2eRY39KFhR2benj7cX74RUzckGI-9tOwnFB1QVoWp_dZV8vNYLFF4?YPbKh5Bdnvq1zclbC



LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.18	Vert(LL)	0.00	5	n/r	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	0.00	5	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-P					Weight: 22 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

All bearings 5-8-11.
(lb) - Max Horz 2=-25(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 8, 7
Max Grav All reactions 250 lb or less at joint(s) 2, 5, 8, 7

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 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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, 5, 8, 7.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 9,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek

6904 Parke East Blvd.
Tampa, FL 36610

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:30 2020 Page 1

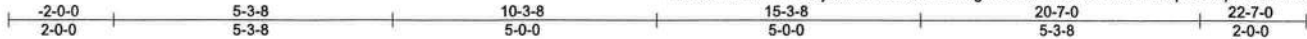
6904 Parke East Blvd.
Tampa, FL 36610

Job 2280164	Truss T01	Truss Type Common	Qty 4	Ply 1	CORNERSTONE - 1740 MODEL T19630206
----------------	--------------	----------------------	----------	----------	---------------------------------------

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:31 2020 Page 1

ID:2eRY39KFhR2benj7cX74RUzckGI-5FWgCxCHx62E3InxdZxrdmLX?p2E3ApOfxG0vvzclbA



Scale = 1:41.9

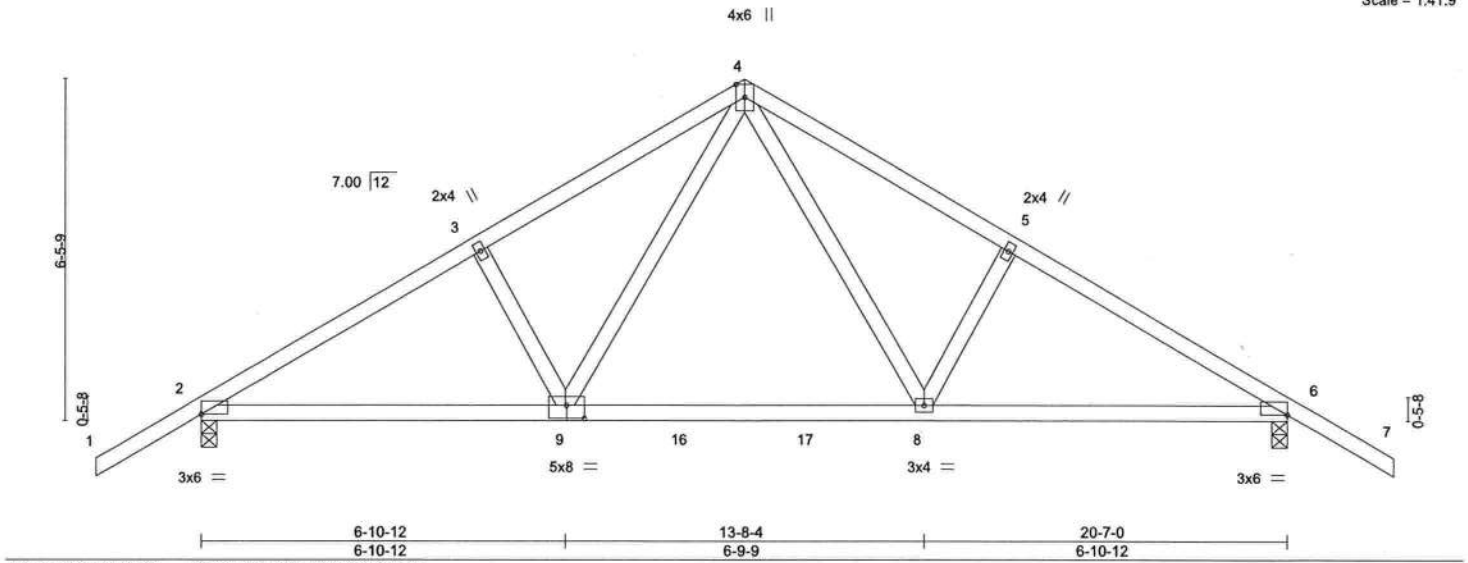


Plate Offsets (X,Y)-- [2-0-0-0,0-0-0], [9-0-4-0,0-3-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES
TCLL 20.0	Plate Grip DOL	1.25	TC 0.41	Vert(LL)	0.16	8-9	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.74	Vert(CT)	-0.28	8-9	>867	180	GRIP
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.32	Horz(CT)	0.03	6	n/a	n/a	244/190
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						Weight: 103 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
 6-9: 2x4 SP M 31
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-0-6 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
 Max Horz 2=-223(LC 10)
 Max Uplift 2=-442(LC 12), 6=-442(LC 13)
 Max Grav 2=1073(LC 1), 6=1073(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1555/660, 3-4=-1501/691, 4-5=-1510/696, 5-6=-1563/664
BOT CHORD 2-9=-523/1414, 8-9=-247/944, 6-8=-443/1285
WEBS 4-8=-332/742, 5-8=-298/255, 4-9=-324/724, 3-9=-301/254

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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=442, 6=442.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-4=-54, 4-7=-54, 9-10=-20, 8-9=-80(F=-60), 8-13=-20



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

March 9,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.
 Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - 1740 MODEL	T19630207
2280164	T01G	Common Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:33 2020 Page 1
ID:2eRY39KFhR2benj7cX74RUzckGI-2eeRddEYTKlybXKk_zJiBQvIcvRX7vh6FI7zozcib8

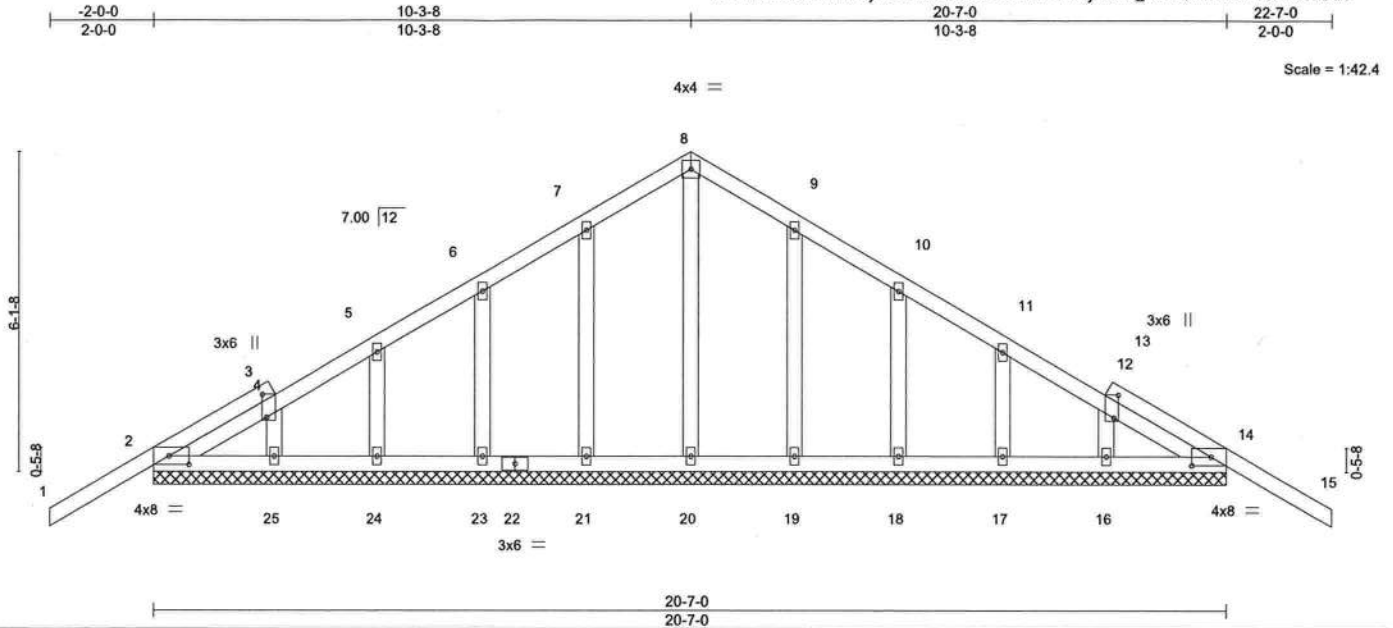


Plate Offsets (X,Y)-- [2'-0-4'-7'-0-2'-0'], [3'-0-5'-4'-0-1'-0'], [13'-0-5'-4'-0-1'-0'], [14'-0-4'-7'-0-2'-0']

LOADING (psf)	SPACING-	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.26	Vert(LL)	-0.02	15	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.05	Vert(CT)	-0.03	15	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT)	0.01	14	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-S						Weight: 120 lb	FT = 20%

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

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

REACTIONS. All bearings 20'-7-0.
(lb) - Max Horz 2=-213(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 25, 16 except 21=-105(LC 12), 23=-102(LC 12),
24=-103(LC 12), 19=-103(LC 13), 18=-102(LC 13), 17=-104(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 23, 24, 25, 19, 18, 17, 16

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 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 25, 16 except (jt=lb) 21=105, 23=102, 24=103, 19=103, 18=102, 17=104.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 9, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.
Tampa, FL 33610

Job 2280164	Truss T02	Truss Type Common	Qty 3	Ply 1	CORNERSTONE - 1740 MODEL Job Reference (optional)	T19630208
----------------	--------------	----------------------	----------	----------	--	-----------

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:34 2020 Page 1

ID:2eRY39KFhR2benj7cX74RUzckGI-WqBprzFAE1QpwVWihUYFPz2500rGXlqLuVgWEzclb7



4x6 ||

Scale = 1:40.9

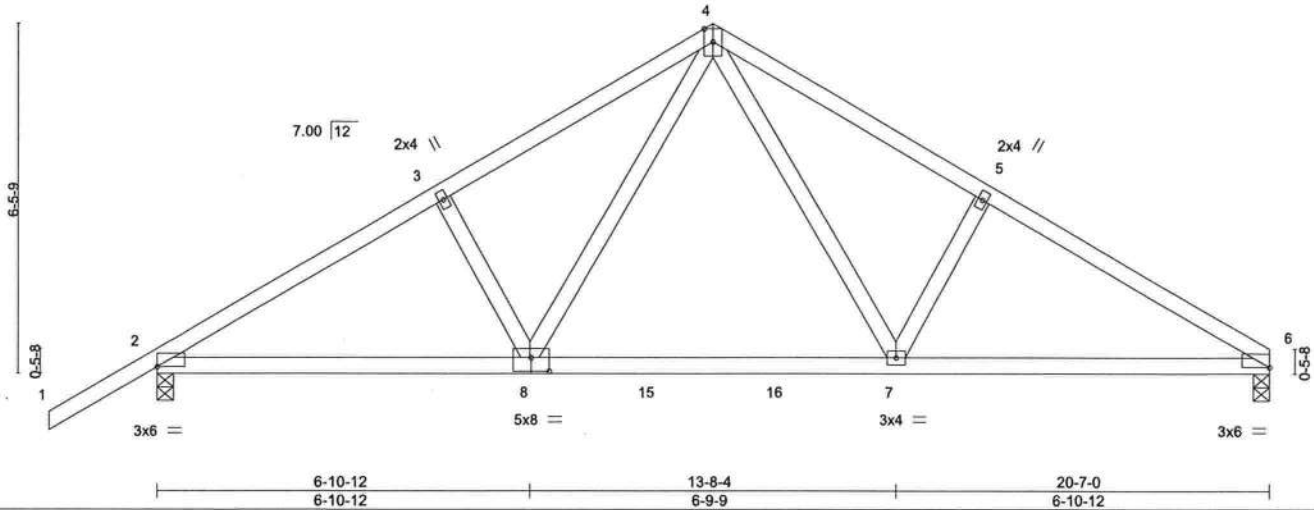


Plate Offsets (X,Y)-- [2:Edge,0-0-0], [8:0-4-0,0-3-0]

LOADING (psf)	SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.41		Vert(LL)	-0.18	7-8	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 1.00		Vert(CT)	-0.34	7-8	>728	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.30		Horz(CT)	0.04	6	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 100 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 4-4-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-1-5 oc bracing.

REACTIONS.

(size) 6=0-3-8, 2=0-3-8
Max Horz 2=169(LC 9)
Max Uplift 6=-209(LC 13), 2=-250(LC 12)
Max Grav 6=960(LC 1), 2=1078(LC 1)

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

TOP CHORD 2-3=-1570/676, 3-4=-1515/707, 4-5=-1509/723, 5-6=-1589/690
BOT CHORD 2-8=-498/1375, 7-8=-250/916, 6-7=-515/1313
WEBS 4-7=-318/743, 5-7=-293/241, 4-8=-292/724, 3-8=-299/231

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=209, 2=250.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 8-12=-20, 7-8=-80(F=-60), 7-9=-20



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 9,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek

6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - 1740 MODEL	T19630209
2280164	T03	Common	4	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:35 2020 Page 1

ID:2eRY39KFhR2benj7cX74RUzckGi_1IB2JFo7LYgXv4jsO0nocVDqQM07_3_ZYED2gzclb6



4x6 ||

Scale = 1:40.9

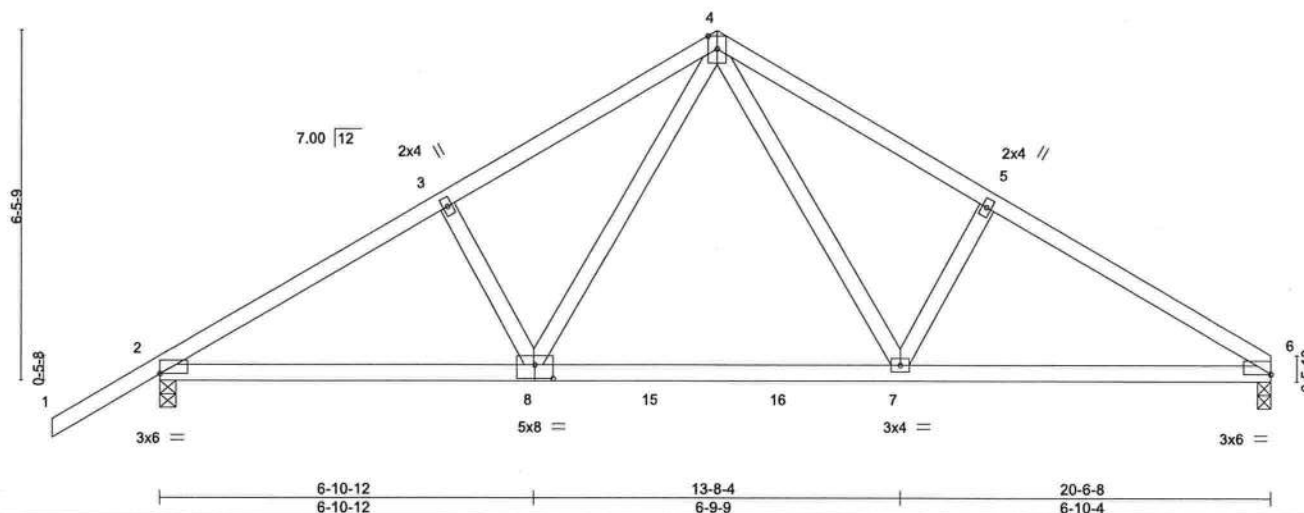


Plate Offsets (X,Y)-- [2:0-0-0,0-0-0], [6:Edge,0-0-2], [8:0-4-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.42	Vert(LL)	-0.18	7-8	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 1.00	Vert(CT)	-0.34	7-8	>721	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.30	Horz(CT)	0.04	6	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						Weight: 100 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 4-4-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-1-7 oc bracing.

REACTIONS.

(size) 6=0-3-0, 2=0-3-8
Max Horz 2=169(LC 9)
Max Uplift 6=-209(LC 13), 2=-249(LC 12)
Max Grav 6=959(LC 1), 2=1076(LC 1)

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

TOP CHORD 2-3=-1567/675, 3-4=-1511/705, 4-5=-1499/718, 5-6=-1579/686
BOT CHORD 2-8=-498/1372, 7-8=-249/913, 6-7=-511/1302
WEBS 4-7=-314/733, 5-7=-287/239, 4-8=-292/725, 3-8=-299/231

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 6=209, 2=249.
- 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: 1-4=-54, 4-6=-54, 8-12=-20, 7-8=-80(F=-60), 7-9=-20



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 9, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - 1740 MODEL	T19630210
2280164	T04	Common	2	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:36 2020 Page 1
ID:2eRY39KFhR2benj7cX74RUzckGi-SDJZFfGQmfnX93fvQ6X0Kq2PJqsPkUO7oC_na7zclb5

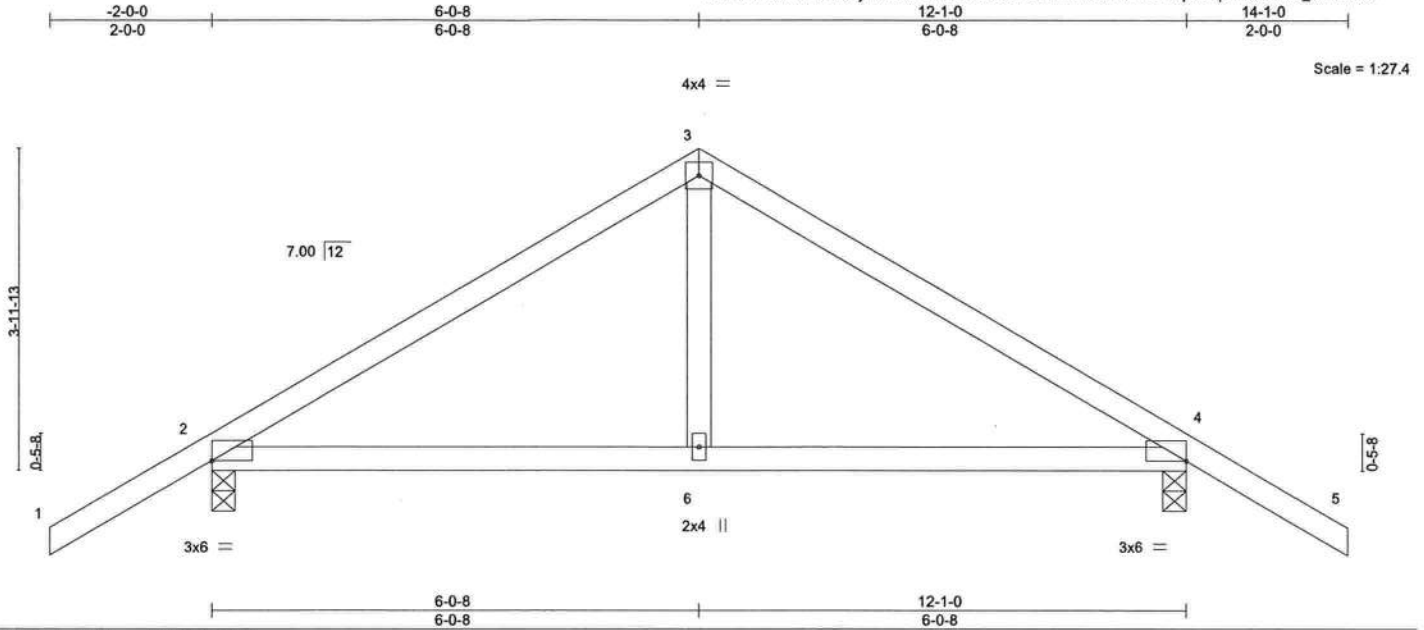


Plate Offsets (X,Y)-- [2-0-0-0,0-0-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.37	Vert(LL)	-0.04	6-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.35	Vert(CT)	-0.07	6-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.01	2	n/a	n/a		
BCDL 10.0	Code FBC2017/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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 4=0-3-8
Max Horz 2=146(LC 11)
Max Uplift 2=-234(LC 12), 4=-234(LC 13)
Max Grav 2=555(LC 1), 4=555(LC 1)

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

TOP CHORD 2-3=-531/214, 3-4=-531/214
BOT CHORD 2-6=-72/408, 4-6=-72/408
WEBS 3-6=0/267

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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=234, 4=234.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 9,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek

6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - 1740 MODEL	T19630211
2280164	T04G	Common Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:37 2020 Page 1
ID:2eRY39KFhR2benj7cX74RUzckGI-wPbT7H2XypOnDE5zp2F1bbZDGTyeH1sjK6Zzcib4

-2-0-0	6-0-8	12-1-0	14-1-0
2-0-0	6-0-8	6-0-8	2-0-0

Scale = 1:26.6

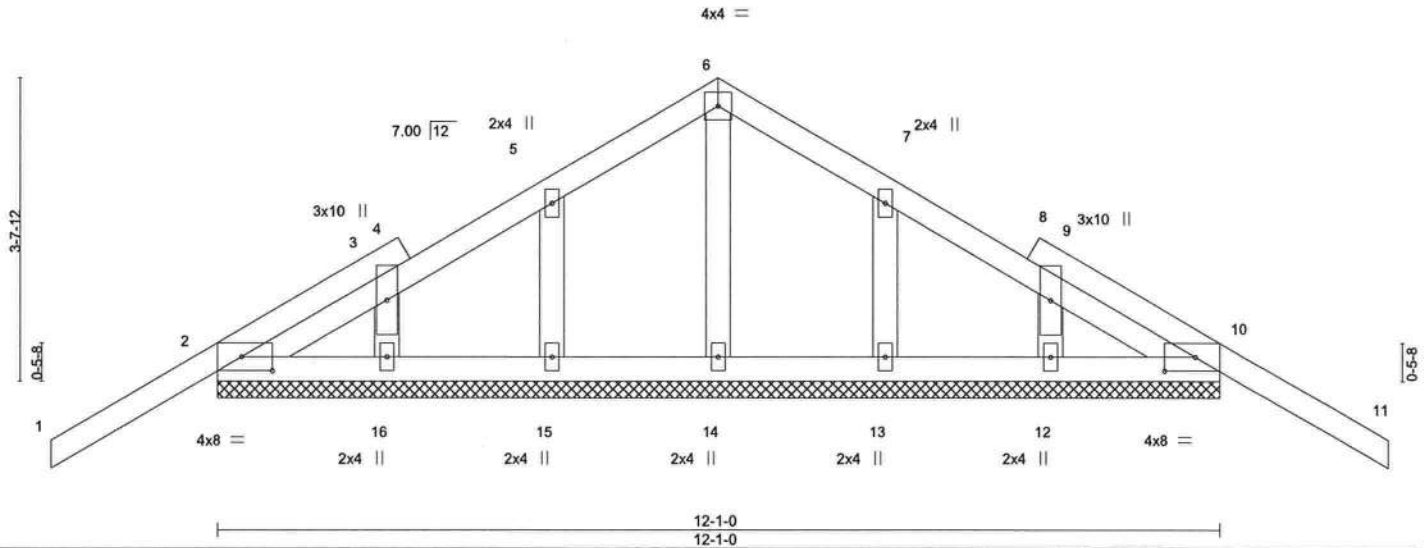


Plate Offsets (X,Y)-- [2-0-4-7,0-2-0], [10-0-4-7,0-2-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.27	Vert(LL)	-0.02	11	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	-0.03	11	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-S						Weight: 65 lb	FT = 20%

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

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

REACTIONS. All bearings 12-1-0.
(lb) - Max Horz 2=-136(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 16, 12 except 2=-107(LC 12), 10=-124(LC 13), 15=-111(LC 12), 13=-112(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(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.
- 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) 16, 12 except (jt=lb) 2=107, 10=124, 15=111, 13=112.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 9, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek

6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - 1740 MODEL	T19630212
2280164	T05	Common	4	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:38 2020 Page 1

ID:2eRY39KFhR2benj7cX?4RUzckGi-OcRKgKihlGxFOpHXXZUPF7kNdXkCNsQGWTuf?zci3

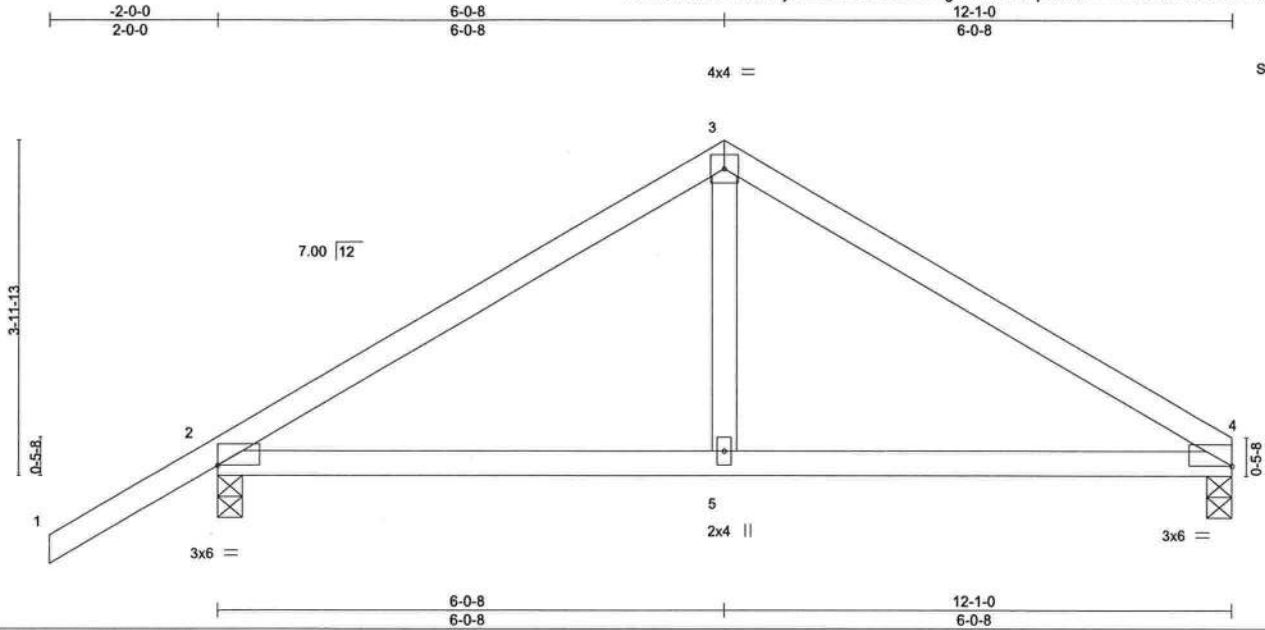


Plate Offsets (X,Y)-- [2:Edge,0-0-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.40	Vert(LL)	-0.04	5-8	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.36	Vert(CT)	-0.08	5-8	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.01	2	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						Weight: 48 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=0-3-8, 2=0-3-8
Max Horz 2=107(LC 11)
Max Uplift 4=90(LC 13), 2=133(LC 12)
Max Grav 4=438(LC 1), 2=564(LC 1)

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

TOP CHORD 2-3=-555/247, 3-4=-551/244
BOT CHORD 2-5=-111/410, 4-5=-111/410
WEBS 3-5=-11/271

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 4 except (jt=lb) 2=133.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 9,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek

6904 Parke East Blvd.
Tampa, FL 36610

Job 2280164	Truss T06	Truss Type Half Hip Girder	Qty 1	Ply 1	CORNERSTONE - 1740 MODEL Job Reference (optional)	T19630213
----------------	--------------	-------------------------------	----------	----------	--	-----------

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:40 2020 Page 1

ID:2eRY39KFhR2benj7cX74RUzckGi-K_Z450JxqtByegzgybyVgD?DR6Wg6ajjy_juzcib1

-2-0-0	3-8-14	7-0-0	11-10-0	17-5-12	23-1-8	27-11-8
2-0-0	3-8-14	3-3-2	4-10-0	5-7-11	5-7-13	4-10-0

Scale = 1:50.4

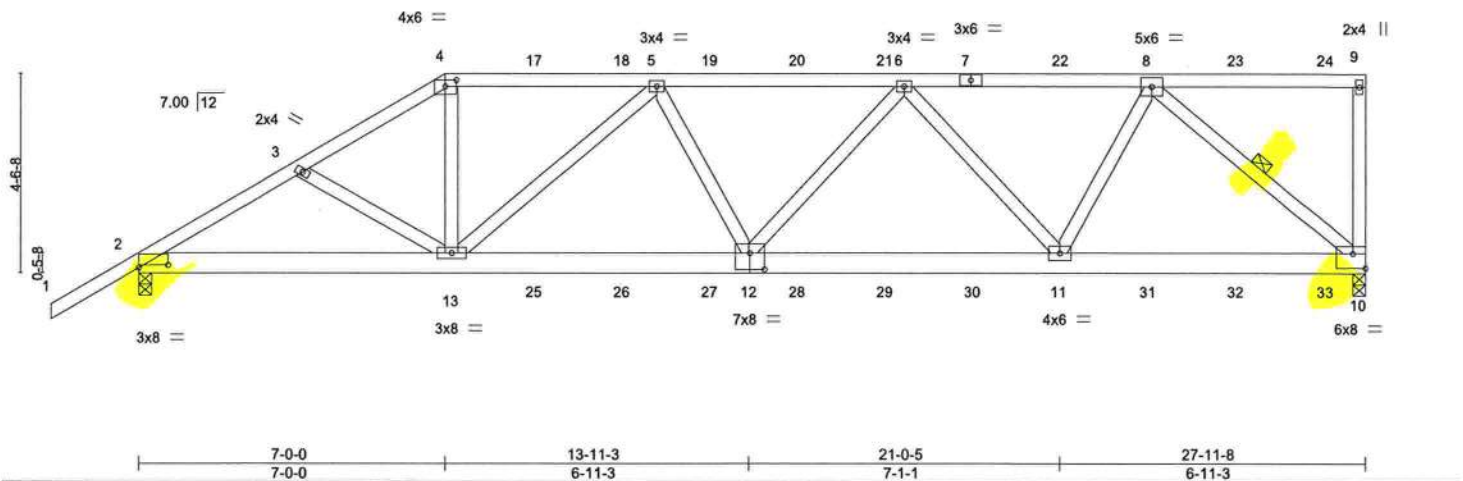


Plate Offsets (X,Y)-- [2:0-8-0,0-0-12], [4:0-3-0,0-1-12], [10:Edge,0-4-0], [12:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.76	Vert(LL)	-0.15 12-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.79	Vert(CT)	-0.30 12-13	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.79	Horz(CT)	0.09 10	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS						
							Weight: 175 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 2-5-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-6-12 oc bracing.
WEBS 1 Row at midpt 8-10

REACTIONS.

(size) 10=0-3-8, 2=0-3-8
Max Horz 2=170(LC 23)
Max Uplift 10=-744(LC 5), 2=-641(LC 8)
Max Grav 10=2219(LC 1), 2=2016(LC 1)

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

TOP CHORD 2-3=-3393/1122, 3-4=-3242/1113, 4-5=-2815/995, 5-6=-3659/1220, 6-8=-2710/872
BOT CHORD 2-13=-1035/2879, 12-13=-1276/3604, 11-12=-1204/3447, 10-11=-732/2088
WEBS 4-13=-350/1241, 5-13=-1055/421, 5-12=0/289, 6-12=-39/424, 6-11=-1136/511, 8-11=-312/1382, 8-10=-2755/967

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=744, 2=641.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 132 lb down and 115 lb up at 7-0-0, 137 lb down and 111 lb up at 9-0-12, 137 lb down and 111 lb up at 11-0-12, 137 lb down and 111 lb up at 13-0-12, 137 lb down and 111 lb up at 15-0-12, 137 lb down and 111 lb up at 17-0-12, 137 lb down and 111 lb up at 19-0-12, 137 lb down and 111 lb up at 21-0-12, 137 lb down and 111 lb up at 23-0-12, and 137 lb down and 111 lb up at 25-0-12, and 134 lb down and 110 lb up at 27-0-12 on top chord, and 349 lb down and 178 lb up at 7-0-0, 86 lb down at 9-0-12, 86 lb down at 11-0-12, 86 lb down at 13-0-12, 86 lb down at 15-0-12, 86 lb down at 17-0-12, 86 lb down at 19-0-12, 86 lb down at 21-0-12, 86 lb down at 23-0-12, and 86 lb down at 25-0-12, and 91 lb down at 27-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-9=-54, 10-14=-20



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 9, 2020

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - 1740 MODEL	T19630213
2280164	T06	Half Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:40 2020 Page 2
ID:2eRY39KFhR2benj7cX?4RUzckGi-K_Z450JxqtByegzghybyVgD?DR6Wg6ajjqy_juzcib1

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 4=-107(F) 7=-107(F) 13=-281(F) 11=-60(F) 8=-107(F) 17=-107(F) 18=-107(F) 19=-107(F) 20=-107(F) 21=-107(F) 22=-107(F) 23=-107(F) 24=-114(F)
25=-60(F) 26=-60(F) 27=-60(F) 28=-60(F) 29=-60(F) 30=-60(F) 31=-60(F) 32=-60(F) 33=-62(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.
Tampa, FL 36610

Job 2280164	Truss T07	Truss Type Half Hip	Qty 1	Ply 1	CORNERSTONE - 1740 MODEL Job Reference (optional)	T19630214
----------------	--------------	------------------------	----------	----------	--	-----------

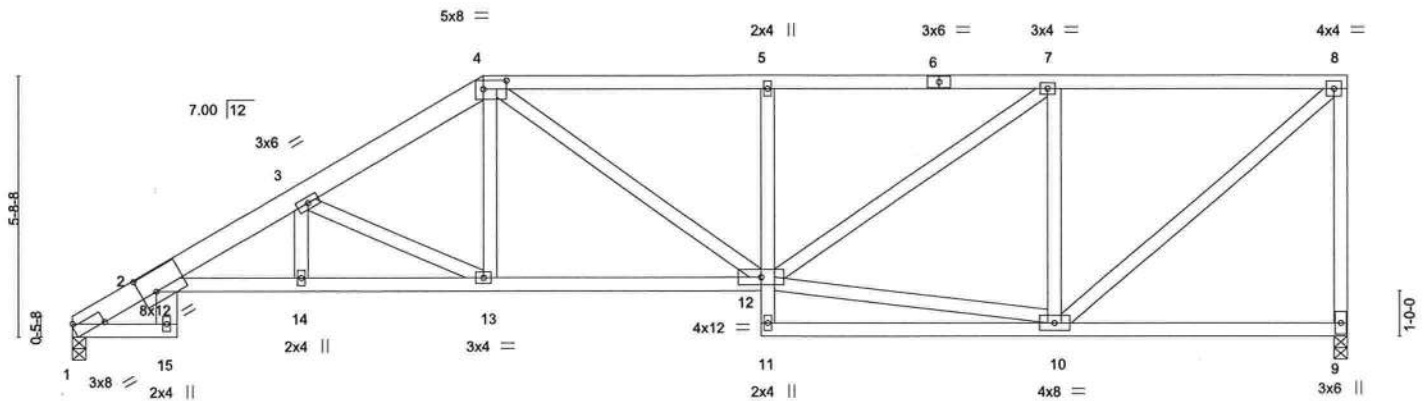
Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:42 2020 Page 1

ID:2eRY39KFhR2benj7cX74RUzckGI-HNgqWILBMVRgt_73mNeQa5ILTEtz80y0A8R5onzcib?

2-3-8	5-0-0	9-0-0	15-1-0	21-6-4	27-11-8
2-3-8	2-8-8	4-0-0	6-1-0	6-5-4	6-5-4

Scale: 1/4"=1'



2-3-8	5-0-0	9-0-0	15-1-0	21-6-4	27-11-8
2-3-8	2-8-8	4-0-0	6-1-0	6-5-4	6-5-4

Plate Offsets (X,Y)-- [1:0-7-9,Edge], [2:0-4-0,0-5-4], [4:0-6-0,0-2-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.65	Vert(LL)	-0.13	2-14	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.47	Vert(CT)	-0.26	12-13	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.80	Horz(CT)	0.17	9	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
								Weight: 176 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
1-4: 2x6 SP M 26
BOT CHORD 2x4 SP No.2 *Except*
2-15: 2x6 SP No.2, 2-12: 2x4 SP M 31, 5-11: 2x4 SP No.3
WEBS 2x4 SP No.3

REACTIONS.

(size) 1=0-3-8, 9=0-3-8
Max Horz 1=179(LC 12)
Max Uplift 1=-178(LC 9), 9=-267(LC 9)
Max Grav 1=1035(LC 1), 9=1024(LC 1)

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

TOP CHORD 2-19=-557/63, 2-3=-2400/1141, 3-4=-1729/833, 4-5=-1636/843, 5-7=-1618/834,
7-8=-955/476, 8-9=-970/521
BOT CHORD 2-14=-1237/2204, 13-14=-1237/2204, 12-13=-758/1432, 5-12=-349/268
WEBS 4-13=-192/503, 4-12=-165/250, 10-12=-447/890, 7-12=-424/789, 7-10=-823/528,
8-10=-622/1249, 3-13=-901/537

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl.,
GCp=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber
DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
1=178, 9=267.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 9, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 BCS1 Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - 1740 MODEL	T19630215
2280164	T08	Half Hip	1	1	Job Reference (optional)	

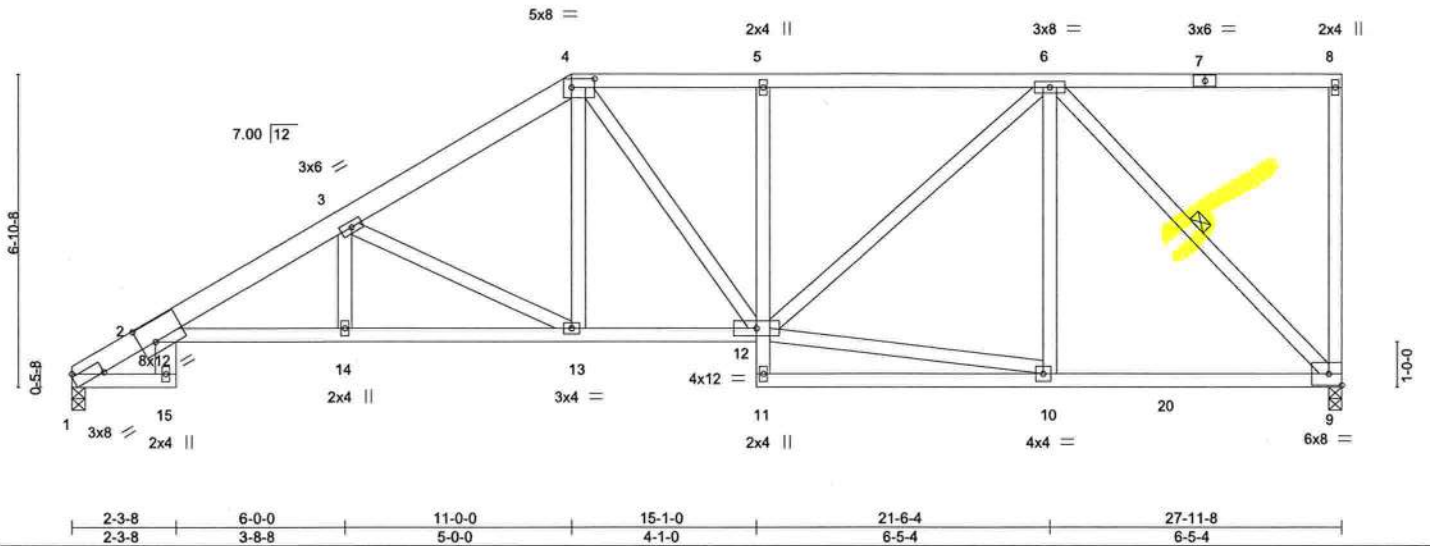
Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:43 2020 Page 1

ID:2eRY39KFhR2benj7cx74RUzckGi-IZEDJ2Mp7oZXV8hFK49f6lqaPeCGtWd9PoAeKDzclb_

2-3-8	6-0-0	11-0-0	15-1-0	21-6-4	27-11-8
2-3-8	3-8-8	5-0-0	4-1-0	6-5-4	6-5-4

Scale = 1:48.7



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	0.15 2-14 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.27 2-14 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.18 9 n/a n/a				
BCDL	10.0	Code FBC2017/TP12014		Matrix-MS							
								Weight: 190 lb		FT = 20%	

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
 1-4: 2x6 SP M 26
BOT CHORD 2x4 SP No.2 *Except*
 2-15: 2x6 SP No.2, 2-12: 2x4 SP M 31, 5-11: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-9

REACTIONS. (size) 1=0-3-8, 9=0-3-8
 Max Horz 1=218(LC 12)
 Max Uplift 1=-176(LC 12), 9=-266(LC 9)
 Max Grav 1=1035(LC 1), 9=1024(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-19=-557/10, 2-3=-2220/1018, 3-4=-1513/719, 4-5=-1279/678, 5-6=-1276/678
BOT CHORD 2-14=-1157/2009, 13-14=-1157/2009, 12-13=-663/1223, 5-12=-292/223, 9-10=-409/801
WEBS 3-14=-32/270, 3-13=-953/558, 4-13=-211/511, 10-12=-393/738, 6-12=-360/634, 6-9=-1144/584

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=176, 9=266.



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

March 9, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek

6904 Parke East Blvd.
 Tampa, FL 33610

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:44 2020 Page 1

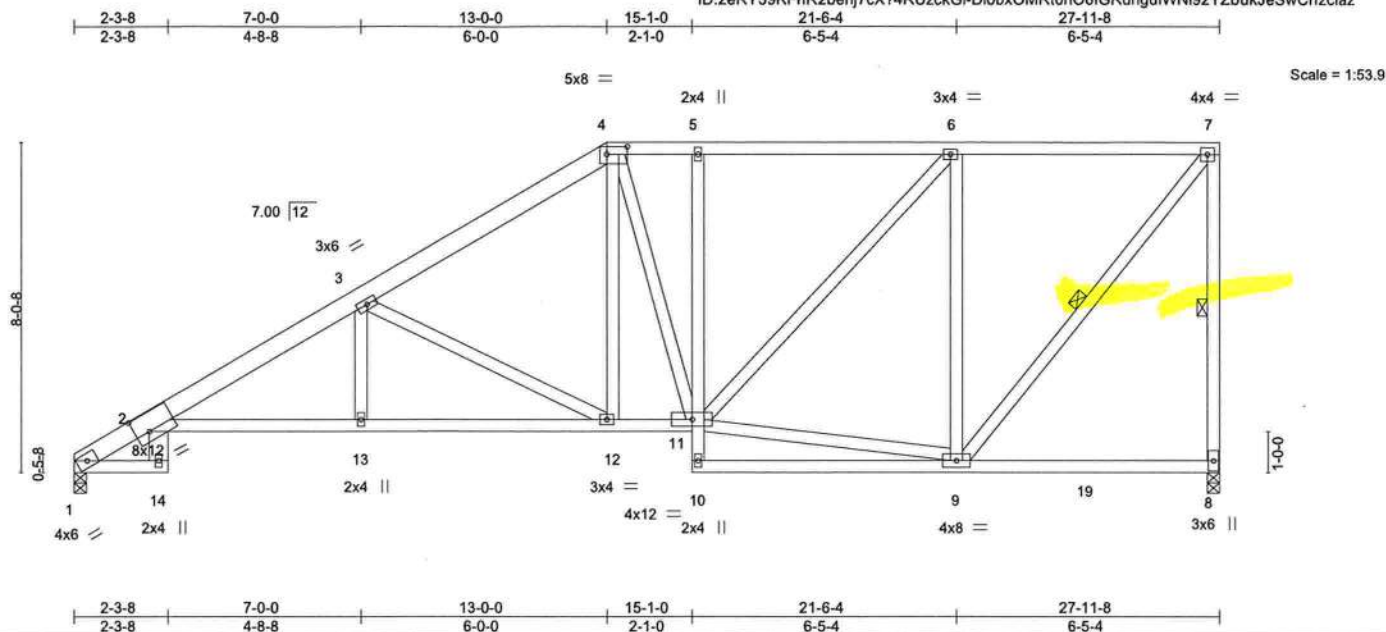


Plate Offsets (X,Y)= [2:0-4-0,0-5-4], [4:0-6-0,0-2-4]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC	0.44	Vert(LL)	0.18	2-13	>999	240	MT20 244/190
TCDL	7.0	Lumber DOL 1.25		BC	0.46	Vert(CT)	-0.32	2-13	>999	180	
BCLL	0.0 *	Rep Stress Incr YES		WB	0.91	Horz(CT)	0.19	8	n/a	n/a	
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS						Weight: 205 lb FT = 20%	

LUMBER-

TOP CHORD 2x6 SP M 26 *Except*
 4-7: 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 2-14: 2x6 SP No.2, 2-11: 2x4 SP M 31, 5-10: 2x4 SP No.3
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-4-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 7-8, 7-9

REACTIONS.

(size) 1=0-3-8, 8=0-3-8
Max Horz 1=258(LC 12)
Max Uplift 1=-180(LC 12), 8=-265(LC 9)
Max Grav 1=1035(LC 1), 8=1024(LC 1)

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

TOP CHORD	2-18--557/0, 2-3--2078/912, 3-4--1332/612, 4-5--1052/579, 5-6--1052/580, 6-7--672/351, 7-8--971/541
BOT CHORD	2-13--1096/1857, 12-13--1096/1857, 11-12--581/1051, 5-11--257/192
WEBS	3-13--21/310, 3-12--1008/584, 4-12--223/542, 9-11--346/606, 6-11--326/544, 6-9--782/535, 7-9--554/1062

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=180, 8=265.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 9, 2020



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE

WARNING: - verify design parameters and READ NOTES on this and INCLUDED INTER REFERENCE PAGE (M1743316), M1832919 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - 1740 MODEL	T19630217
2280164	T10	Hip	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:45 2020 Page 1
ID:2eRY39KFhR2benj7cX74RUzckGi-hyMz8kN4eQpFkSreRVB7CjwvSwwKQxSt6fIO5zciay

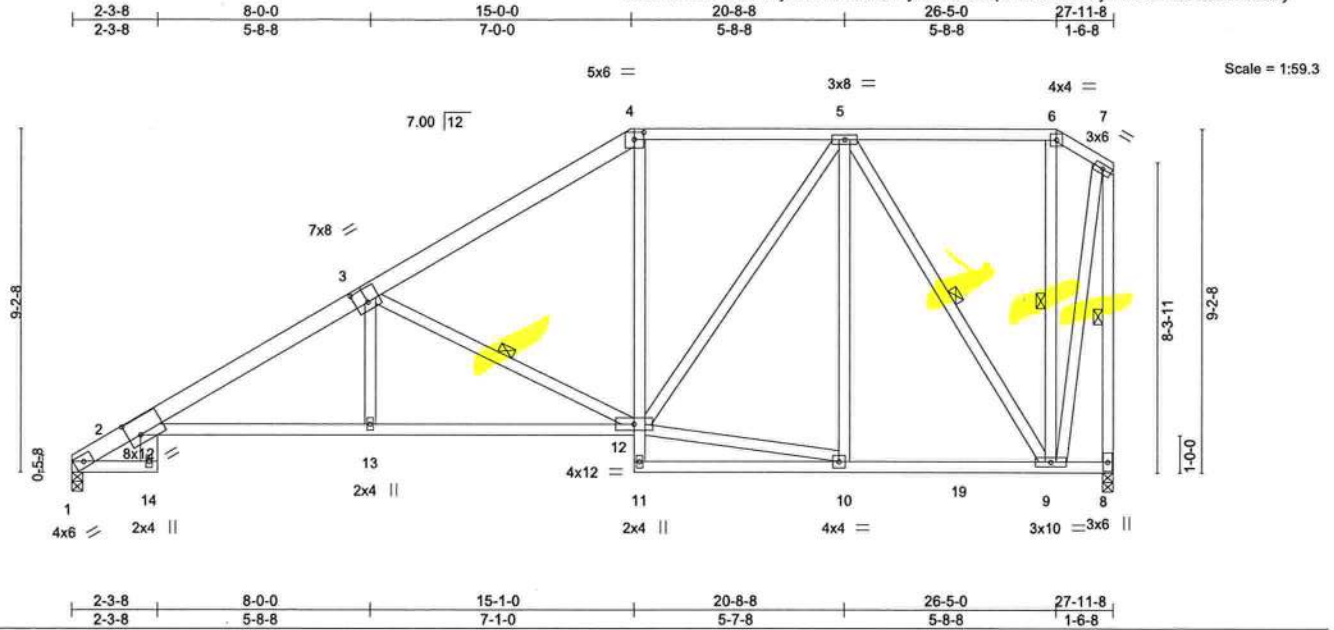


Plate Offsets (X,Y)-- [2:0-4-0,0-5-4], [3:0-4-0,0-4-8], [4:0-3-0,0-2-5]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC	0.44	Vert(LL)	0.21 2-13 >999 240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25		BC	0.45	Vert(CT)	-0.39 2-13 >865 180		
BCLL	0.0 *	Rep Stress Incr YES		WB	0.59	Horz(CT)	0.21 8 n/a n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS				Weight: 220 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
 3-4: 2x6 SP No.2, 1-3: 2x6 SP M 26
BOT CHORD 2x4 SP No.2 *Except*
 2-14: 2x6 SP No.2, 2-12: 2x4 SP M 31, 4-11: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-12, 5-9, 6-9, 7-8

REACTIONS. (size) 1=0-3-8, 8=0-3-8
 Max Horz 1=279(LC 12)
 Max Uplift 1=-187(LC 12), 8=-215(LC 9)
 Max Grav 1=1035(LC 1), 8=1024(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-18=-557/0, 2-3=-1968/836, 3-4=-1166/532, 4-5=-899/525, 7-8=-1005/505
BOT CHORD 2-13=-1027/1765, 12-13=-1027/1777, 4-12=-52/324, 9-10=-332/634
WEBS 3-13=-5/358, 3-12=-1071/600, 10-12=-304/614, 5-12=-272/502, 5-9=-874/468, 7-9=-450/909

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=187, 8=215.



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

March 9,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek

6904 Parke East Blvd.
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - 1740 MODEL	T19630218
2280164	T11	Hip	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:47 2020 Page 1

ID:2eRY39KFhR2benj7cX74RUzckGi-dKUjZPPKA13zzl70ZwDbH8?DgFadoGsIKQ8sS_zclaw



Scale = 1:62.0

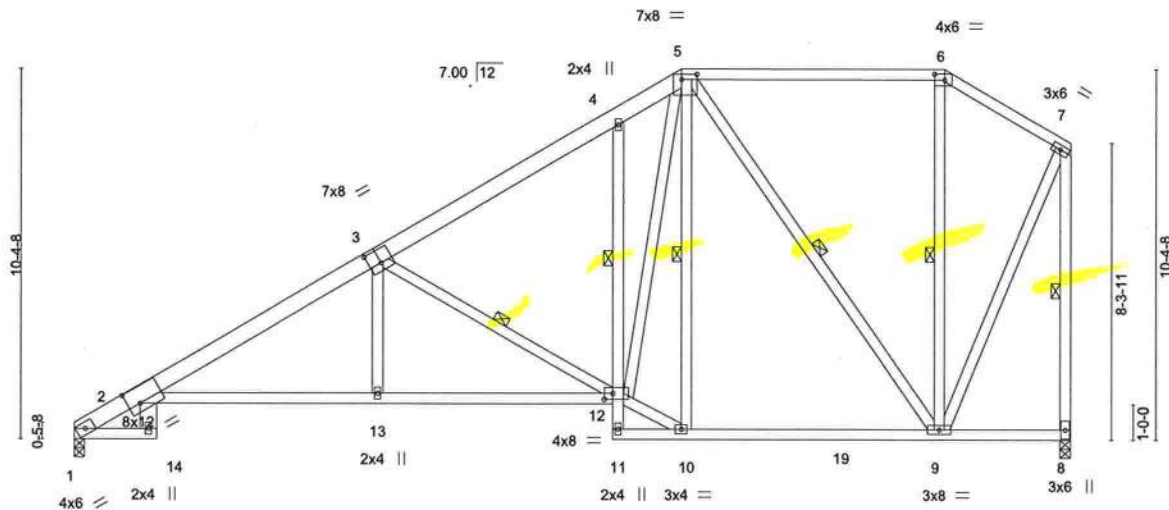


Plate Offsets (X,Y)-- [2:0-4-0,0-5-4], [3:0-4-0,0-4-8], [5:0-5-4,0-1-12], [6:0-3-8,0-2-0], [12:0-2-12,0-2-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0		TC 0.62	Vert(LL)	0.24	2-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25		BC 0.50	Vert(CT)	-0.44	2-13	>765	180		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.89	Horz(CT)	0.23	8	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS							
									Weight: 224 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
3-5: 2x6 SP No.2, 1-3: 2x6 SP M 26
BOT CHORD 2x4 SP No.2 *Except*
2-14: 2x6 SP No.2, 2-12: 2x4 SP M 31, 4-11: 2x4 SP No.3
WEBS 2x4 SP No.3

REACTIONS.

(size) 1=0-3-8, 8=0-3-8
Max Horz 1=294(LC 12)
Max Uplift 1=-192(LC 12), 8=-209(LC 12)
Max Grav 1=1035(LC 1), 8=1024(LC 1)

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

TOP CHORD 2-18=-557/0, 2-3=-1899/786, 3-4=-1154/529, 4-5=-1041/609, 5-6=-357/248,
6-7=-404/230, 7-8=-1003/513
BOT CHORD 2-13=-965/1747, 12-13=-965/1749, 9-10=-357/717
WEBS 3-13=-11/355, 3-12=-1021/567, 10-12=-339/797, 5-12=-578/1048, 5-9=-684/345,
7-9=-388/819

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=192, 8=209.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 9,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - 1740 MODEL	T19630219
2280164	T12	Piggyback Base	1	1		

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:48 2020 Page 1

ID:2eRY39KFhR2benj7cX74RUzckGi-5X26nIPyxBqbaC7dlqpLYMofs1XnsuZ4uP_Qzciav

-2-0-0	5-10-6	10-11-11	17-0-0	24-5-0	27-11-8
2-0-0	5-10-6	5-1-6	6-0-5	7-5-0	3-6-8

Scale = 1:62.4

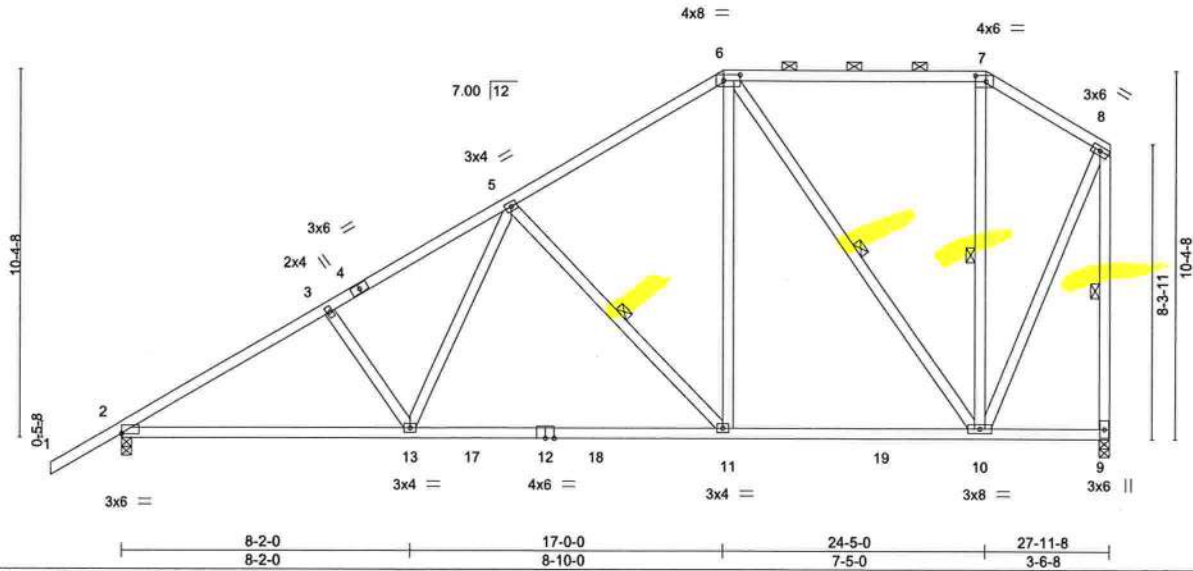


Plate Offsets (X,Y)-- [2:0-0-0,0-0-4], [6:0-5-8,0-2-0], [7:0-3-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.72	Vert(LL)	-0.18 11-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.75	Vert(CT)	-0.33 11-13	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.58	Horz(CT)	0.04 9	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS						
							Weight: 192 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 4-4-8 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-11, 6-10, 7-10, 8-9

REACTIONS.

(size) 2=0-3-8, 9=0-3-8
Max Horz 2=325(LC 12)
Max Uplift 2=-235(LC 12), 9=-208(LC 12)
Max Grav 2=1174(LC 19), 9=1025(LC 1)

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

TOP CHORD 2-3=-1704/610, 3-5=-1565/616, 5-6=-916/434, 6-7=-358/248, 7-8=-407/231, 8-9=-1010/515
BOT CHORD 2-13=-798/1522, 11-13=-605/1187, 10-11=-353/772
WEBS 3-13=-314/235, 5-13=-154/491, 5-11=-643/373, 6-11=-221/772, 6-10=-753/336, 8-10=-391/836

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=235, 9=208.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 9,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek

6904 Parke East Blvd.
Tampa, FL 33610

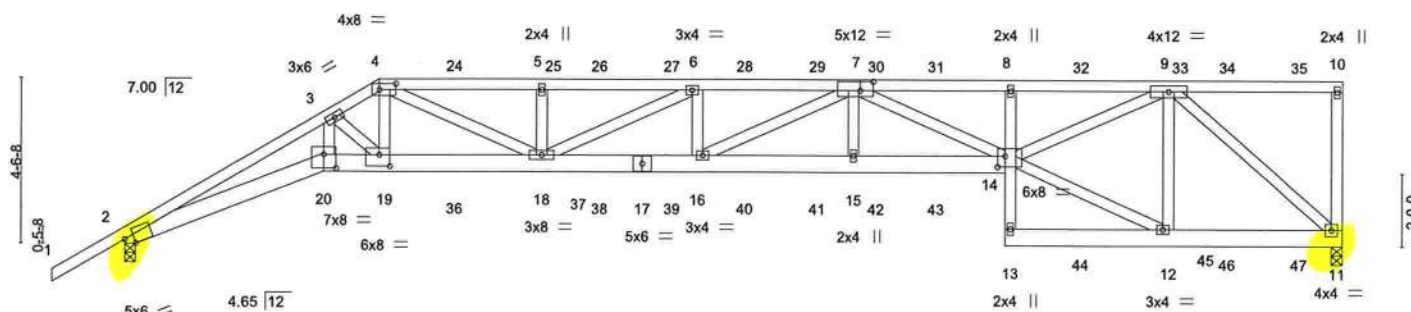
Builders FirstSource, Jacksonville, FL - 32244.

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:52 2020 Page 1

ID:2eRY39KFhR2benj7cX74RUzckGj-1Hcc7TT7ZiF4Wu MTpm Bi5 GCwTYvUUJsd7Bzciar



Scale = 1:60.9



	5-5-8	7-0-0	11-5-8	15-9-3	20-1-0	24-3-0	28-9-0	33-6-8
Plate Offsets (X,Y)--	5-5-8	1-6-8	4-5-8	4-3-11	4-3-13	4-2-0	4-6-0	4-9-8
	[2-0-3-0,0-2-8]	[4-0-5-8,0-2-0]	[7-0-4-4,0-3-0]	[14-0-2-8,0-3-8]	[19-0-3-8,0-3-12]	[20-0-4-0,0-4-8]		

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 0.52	Vert(LL) 0.42 16-18 >956 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.82	Vert(CT) -0.69 16-18 >582 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.77	Horz(CT) 0.38 11 n/a n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS		Weight: 643 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	2x6 SP No.2 *Except*		except end verticals.
	8-13: 2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (size) 11=0-3-8, 2=0-3-8
 Max Horz 2=170(LC 23)
 Max Uplift 11=-1006(LC 5), 2=-1000(LC 8)
 Max Grav 11=2690(LC 1), 2=2580(LC 1)

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

TOP CHORD 2-3=-10506/4474, 3-4=-8144/3544, 4-5=-9443/3961, 5-6=-9443/3961, 6-7=-10461/4281, 7-8=-8212/3215, 8-9=-8104/3176

BOT CHORD 2-20=-4114/9514, 19-20=-3761/8681, 18-19=-3186/7272, 16-18=-4281/10461, 15-16=-4040/10081, 14-15=-4032/10057, 8-14=-389/227, 11-12=-1014/2672

WEBS 3-20=-1097/2629, 3-19=-2089/924, 4-19=-1230/2584, 4-18=-914/2414, 5-18=-447/199, 6-18=-1139/407, 7-16=-275/425, 7-15=-96/287, 7-14=-2084/923, 12-14=-1027/2703, 9-14=-2415/6067, 9-12=-911/524, 9-11=-3554/1346

NOTES-

- 1) 3-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, 2x4 - 1 row 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) Wind: ASCE 7-10; $V_{ult}=130\text{mph}$ (3-second gust) $V_{asd}=101\text{mph}$; $TCDL=4.2\text{psf}$; $BCDL=3.0\text{psf}$; $h=18\text{ft}$; Cat. II; Exp C; Encl., $G\text{Cpi}=0.18$; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=1006, 2=1000.



Joaquin Velez PE No.68182
MITek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 9, 2020

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 Components Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - 1740 MODEL	T19630220
2280164	T13	Half Hip Girder	1	3	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:52 2020 Page 2
ID:2eRY39KFhR2benj7cX74RUzckGi-IHcc7TT?ZiF4Wu_MTpm_Bi5_GCwTYvUUisd7Bzciar

NOTES-

- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 147 lb down and 78 lb up at 7-0-0, 151 lb down and 74 lb up at 9-0-12, 151 lb down and 74 lb up at 11-0-12, 151 lb down and 74 lb up at 13-0-12, 151 lb down and 74 lb up at 15-0-12, 151 lb down and 74 lb up at 17-0-12, 151 lb down and 74 lb up at 19-0-12, 151 lb down and 74 lb up at 20-8-8, 151 lb down and 74 lb up at 22-4-4, 137 lb down and 111 lb up at 24-4-4, 137 lb down and 111 lb up at 26-4-4, 137 lb down and 111 lb up at 28-4-4, and 137 lb down and 111 lb up at 30-4-4, and 137 lb down and 111 lb up at 32-4-4 on top chord, and 446 lb down and 371 lb up at 7-0-0, 66 lb down and 55 lb up at 9-0-12, 66 lb down and 55 lb up at 11-0-12, 66 lb down and 55 lb up at 13-0-12, 66 lb down and 55 lb up at 15-0-12, 66 lb down and 55 lb up at 17-0-12, 66 lb down and 55 lb up at 19-0-12, 66 lb down and 55 lb up at 20-8-8, 66 lb down and 55 lb up at 22-4-4, 86 lb down at 24-4-12, 86 lb down at 26-4-4, 86 lb down at 28-4-4, and 86 lb down at 30-4-4, and 86 lb down at 32-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-10=-54, 20-21=-20, 14-20=-20, 11-13=-20

Concentrated Loads (lb)

Vert: 4=-101(B) 8=-107(B) 19=-417(B) 14=-60(B) 24=-101(B) 25=-101(B) 26=-101(B) 27=-101(B) 28=-101(B) 29=-101(B) 30=-101(B) 31=-101(B) 32=-107(B) 33=-107(B) 34=-107(B) 35=-107(B) 36=-66(B) 37=-66(B) 38=-66(B) 39=-66(B) 40=-66(B) 41=-66(B) 42=-66(B) 43=-66(B) 44=-60(B) 45=-60(B) 46=-60(B) 47=-60(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MI
MiTek

6904 Parke East Blvd.
Tampa, FL 36610

Job 2280164	Truss T14	Truss Type Hip	Qty 1	Ply 1	CORNERSTONE - 1740 MODEL Job Reference (optional)	T19630221
----------------	--------------	-------------------	----------	----------	--	-----------

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 Mitek Industries, Inc. Mon Mar 9 09:35:54 2020 Page 1
ID:2eRY39KFhR2benj7cX74RUzckGi-whPN1pUjXByzJq1MTurE3coR74v9xUAnx0LkC4zciap

-2-0-0	3-6-0	5-5-8	9-0-0	14-2-10	19-6-8	24-10-7	29-9-8	32-5-0	33-6-8
2-0-0	3-6-0	1-11-8	3-6-8	5-2-10	5-3-14	5-3-15	4-11-2	2-7-8	1-1-8

Scale = 1:60.9

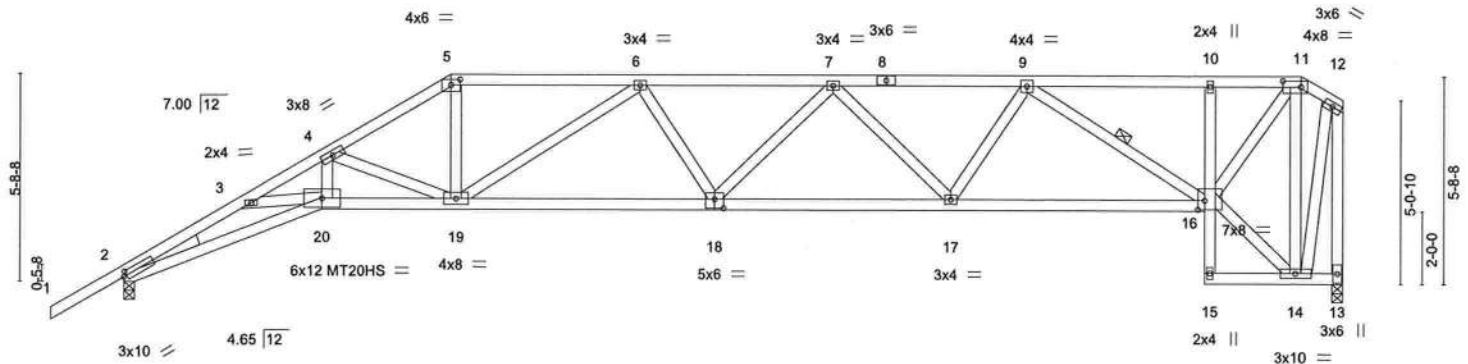


Plate Offsets (X,Y)--	[2:0-1-1,0-1-8], [5:0-3-0,0-1-12], [11:0-6-0,0-2-0], [16:0-2-4,0-3-0], [18:0-3-0,0-3-0]
-----------------------	---

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 0.54	Vert(LL)	-0.30	18	>999	240	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.77	Vert(CT)	-0.58	18-19	>687	180	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.66	Horz(CT)	0.42	13	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
								Weight: 205 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
1-5: 2x4 SP M 31
BOT CHORD 2x4 SP M 31 *Except*
10-15: 2x4 SP No.3, 13-15,16-18: 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-1-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-10-11 oc bracing.
WEBS 1 Row at midpt 9-16

REACTIONS.

(size) 2=0-3-8, 13=0-3-8
Max Horz 2=197(LC 12)
Max Uplift 2=-252(LC 9), 13=-289(LC 9)
Max Grav 2=1347(LC 1), 13=1232(LC 1)

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

TOP CHORD 2-3=-4299/2174, 3-4=-4698/2367, 4-5=-2787/1376, 5-6=-2415/1249, 6-7=-2999/1495, 7-9=-2608/1283, 9-10=-1159/588, 10-11=-1132/578, 11-12=-317/162, 12-13=-1170/569
BOT CHORD 2-20=-2099/3792, 19-20=-2103/3953, 18-19=-1495/2959, 17-18=-1466/2940, 16-17=-1148/2309
WEBS 3-20=-246/547, 4-20=-690/1343, 4-19=-1710/974, 5-19=-532/1165, 6-19=-743/334, 7-17=-482/304, 9-17=-207/577, 9-16=-1389/709, 11-16=-776/1584, 11-14=-1136/566, 12-14=-458/966

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; TCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 2 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) 2=252, 13=289.



Joaquin Velez PE No.68182
Mitek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 9,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

Mitek

6904 Parke East Blvd.
Tampa, FL 33610

Job 2280164	Truss T15	Truss Type Hip	Qty 1	Ply 1	CORNERSTONE - 1740 MODEL Job Reference (optional)	T19630222
----------------	--------------	-------------------	----------	----------	--	-----------

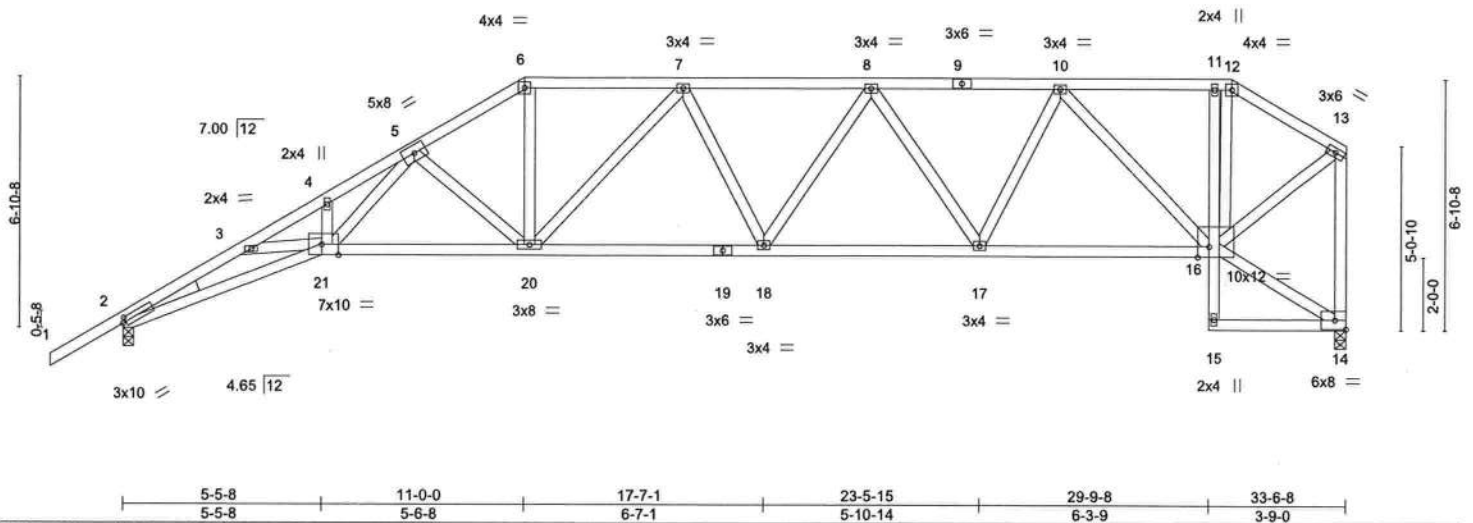
Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:56 2020 Page 1

ID:2eRY39KFhR2benj7cX74RUzckGi-s3X7SUWz3oChY8BlbJui81tnNuZaPKp4OKqrGzzcian

-2-0-0	3-6-0	5-5-8	8-0-0	11-0-0	15-4-6	20-6-8	25-8-10	29-9-8	30-5-0	33-6-8
2-0-0	3-6-0	1-11-8	2-6-8	3-0-0	4-4-6	5-2-1	5-2-3	4-0-14	0-7-8	3-1-8

Scale = 1:60.6



Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - 1740 MODEL	T19630223
2280164	T16	Hip	1	1	Job Reference (optional)	

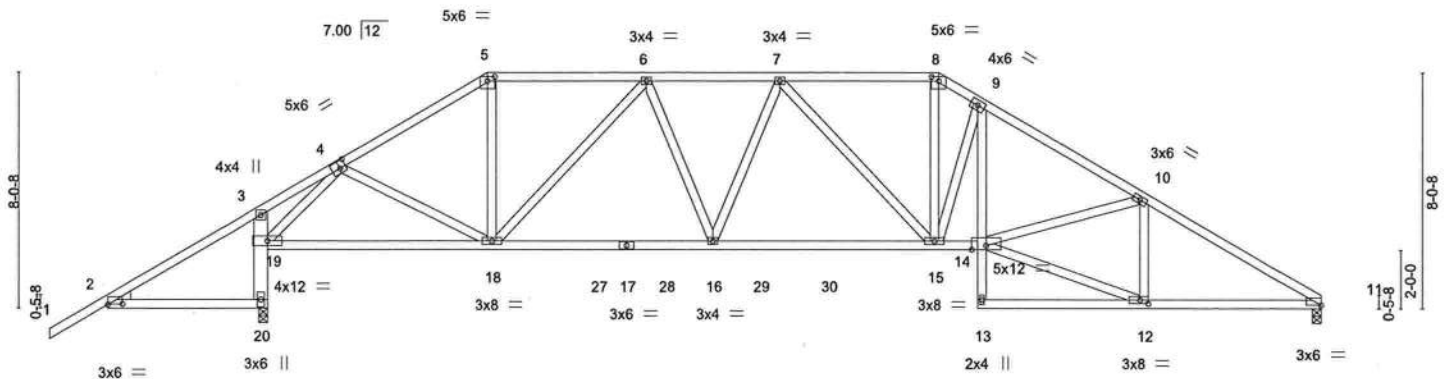
Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:57 2020 Page 1

ID:2eRY39KFhR2benj7cX74RUzckGi-LF4VfqWbq6KYAlmx80PxFQx5HuB8mDDd_ZOpPzcliam

-2-0-0	5-5-8	8-0-0	13-0-0	18-5-2	22-11-14	28-5-0	29-9-0	35-5-0	41-5-0
2-0-0	5-5-8	2-6-8	5-0-0	5-5-2	4-6-13	5-5-2	1-4-0	5-8-0	6-0-0

Scale = 1:75.5



5-2-0	5-5-8	13-0-0	20-8-8	28-5-0	29-9-0	35-5-0	41-5-0
5-2-0	0-3-8	7-6-8	7-8-8	7-8-8	1-4-0	5-8-0	6-0-0

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

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.62	Vert(LL)	-0.15 15-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.87	Vert(CT)	-0.33 15-16	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.96	Horz(CT)	0.10 11	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS					Weight: 249 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 3-20: 2x6 SP No.2, 9-13: 2x4 SP No.3
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-3 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 3-7-13 oc bracing.

REACTIONS.

(size) 11=0-3-8, 20=0-3-8
 Max Horz 20=209(LC 11)
 Max Uplift 11=-244(LC 13), 20=-356(LC 12)
 Max Grav 11=1292(LC 1), 20=1880(LC 1)

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

TOP CHORD 2-3=-589/611, 3-4=-1659/1456, 4-5=-1492/612, 5-6=-1239/588, 6-7=-1906/920,
 7-8=-1868/920, 8-9=-2162/1046, 9-10=-2506/1105, 10-11=-2174/941
 BOT CHORD 2-20=-464/627, 19-20=-1837/1092, 3-19=-276/180, 18-19=-337/757, 16-18=-529/1781,
 15-16=-631/1971, 14-15=-699/2086, 9-14=-296/683, 11-12=-721/1811
 WEBS 4-19=-2691/2019, 4-18=-430/660, 5-18=-102/525, 6-18=-815/445, 6-16=-127/395,
 7-15=-282/198, 8-15=-412/911, 9-15=-767/433, 12-14=-759/1872, 10-14=-150/350,
 10-12=-559/303

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=244, 20=356.



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

March 9,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek

6904 Parke East Blvd.
 Tampa, FL 33610

Job 2280164	Truss T17	Truss Type Hip	Qty 1	Ply 1	CORNERSTONE - 1740 MODEL Job Reference (optional)	T19630224
----------------	--------------	-------------------	----------	----------	--	-----------

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:35:59 2020 Page 1

ID:2eRY39KFhR2benj7cX74RUzckGi-HeCG4WYsLjaGQbwKGRRPmgVGI5Y6cgMW5H2VHzciak

2-0-0	5-5-8	10-6-13	15-0-0	20-8-8	26-5-0	29-9-0	35-5-0	41-5-0	43-5-0
2-0-0	5-5-8	5-1-5	4-5-3	5-8-8	5-8-8	3-4-0	5-8-0	6-0-0	2-0-0

Scale = 1:76.4

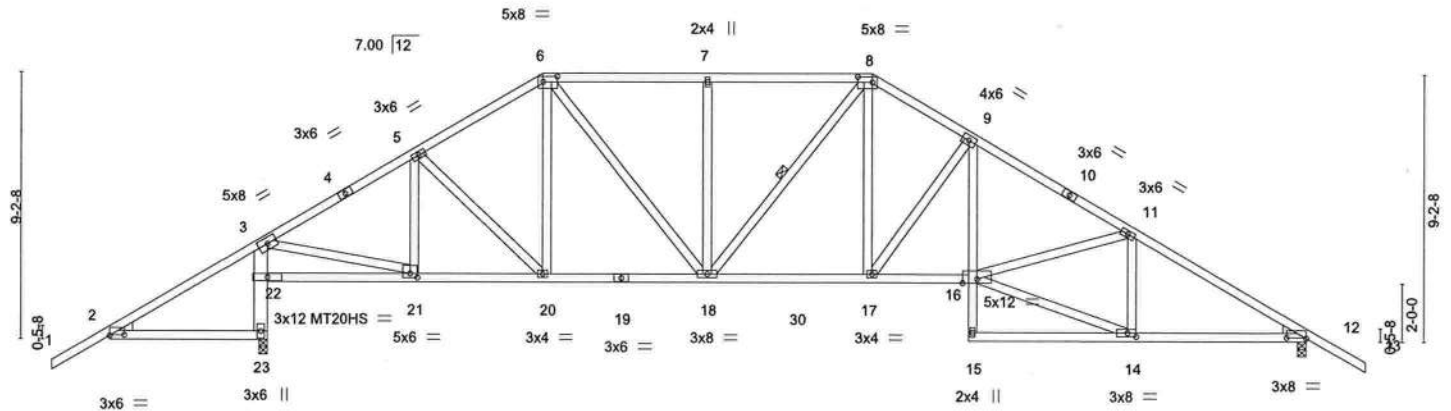


Plate Offsets (X,Y)--	[2:0-6-0,0-0-4], [6:0-6-0,0-2-4], [8:0-6-0,0-2-4], [12:0-8-0,0-0-4], [14:0-3-8,0-1-8], [21:0-3-0,0-1-12]
-----------------------	--

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.64	Vert(LL)	-0.14 16-17	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.97	Vert(CT)	-0.26 16-17	>999	180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.92	Horz(CT)	0.11 12	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
								Weight: 263 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-23: 2x6 SP No.2, 9-15: 2x4 SP No.3
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 8-18

REACTIONS.

(size) 23=0-3-8, 12=0-3-8
Max Horz 23=-248(LC 10)
Max Uplift 23=-371(LC 12), 12=-295(LC 13)
Max Grav 23=1877(LC 1), 12=1403(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-590/614, 3-5=-1356/405, 5-6=-1474/642, 6-7=-1602/792, 7-8=-1602/792,
8-9=-1898/876, 9-11=-2498/1021, 11-12=-2141/882
BOT CHORD 2-23=-466/628, 22-23=-1834/1082, 3-22=-1764/1077, 21-22=-1202/1617,
20-21=-280/1195, 18-20=-222/1216, 17-18=-340/1606, 16-17=-586/2092, 9-16=-236/707,
12-14=-622/1777
WEBS 3-21=-1673/2320, 6-18=-321/643, 7-18=-355/269, 8-17=-297/790, 9-17=-862/421,
14-16=-656/1854, 11-16=-111/373, 11-14=-566/277, 5-21=-432/423

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 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) 23=371, 12=295.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 9,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek

6904 Parke East Blvd.
Tampa, FL 33610

Job 2280164	Truss T18	Truss Type Hip	Qty 1	Ply 1	CORNERSTONE - 1740 MODEL Job Reference (optional)	T19630225
----------------	--------------	-------------------	----------	----------	--	-----------

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:36:01 2020 Page 1
ID:2eRY39KFhR2benj7cX74RUzckGi-D1K0VCa6IKq_fv4iNsTtr5aYqvEW4bHpYbXbyAzclai

-2-0-0	5-5-8	11-6-3	17-0-0	24-5-0	29-9-0	35-5-0	41-5-0	43-5-0
2-0-0	5-5-8	6-0-11	5-5-13	7-5-0	5-4-0	5-8-0	6-0-0	2-0-0

Scale = 1:76.6

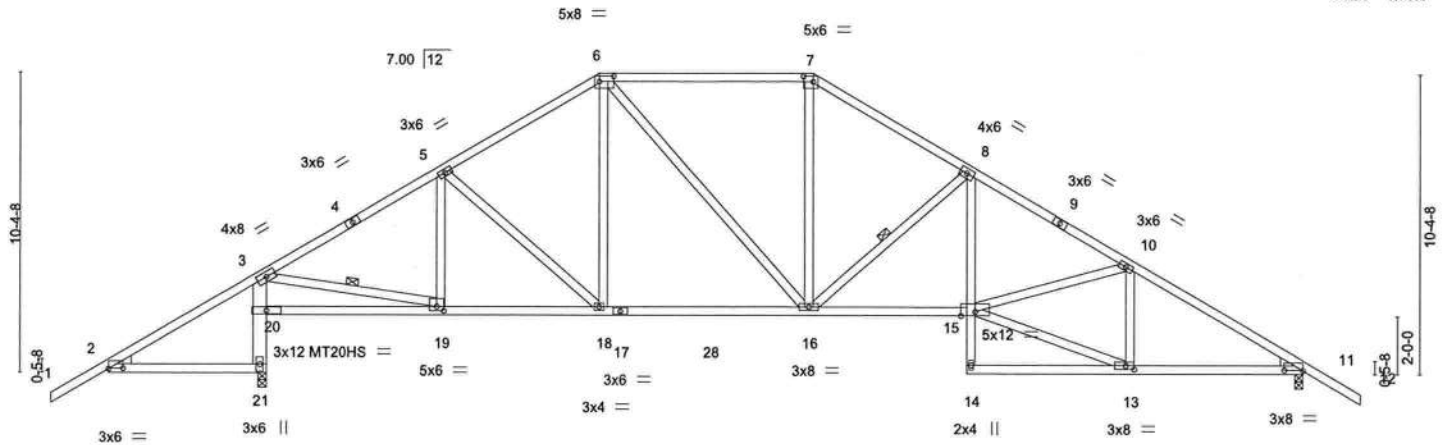


Plate Offsets (X,Y)--	[2:0-6-0,0-0-4], [6:0-6-0,0-2-4], [7:0-4-0,0-0-2-4], [11:0-8-0,0-0-4], [13:0-3-8,0-1-8], [19:0-3-0,0-1-12]
-----------------------	--

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.89	Vert(LL)	-0.15 16-18	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.98	Vert(CT)	-0.29 16-18	>999	180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.89	Horz(CT)	0.12 11	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
								Weight: 254 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-21: 2x6 SP No.2, 8-14: 2x4 SP No.3
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 3-19, 8-16

REACTIONS.

(size) 21=0-3-8, 11=0-3-8
Max Horz 21=-277(LC 10)
Max Uplift 21=-384(LC 12), 11=-305(LC 13)
Max Grav 21=1877(LC 1), 11=1403(LC 1)

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

TOP CHORD 2-3=-589/613, 3-5=-1454/463, 5-6=-1461/657, 6-7=-1412/732, 7-8=-1702/776,
8-10=-2504/1005, 10-11=-2140/868
BOT CHORD 2-21=-464/626, 20-21=-1834/1074, 3-20=-1760/1076, 19-20=-1225/1585,
18-19=-246/1298, 16-18=-158/1220, 15-16=-581/2108, 8-15=-222/710, 11-13=-609/1776
WEBS 3-19=-1676/2333, 5-19=-335/370, 6-18=-41/300, 6-16=-177/391, 7-16=-135/554,
8-16=-994/479, 13-15=-640/1858, 10-15=-76/354, 10-13=-567/270

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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) 21=384, 11=305.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 9,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek

6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - 1740 MODEL	T19630226
2280164	T19	Piggyback Base	2	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:36:02 2020 Page 1
ID:2eRY39KFhR2benj7cX74RUzckGi-hDuOjYakeeyrH3evxZ76OI7mOIzlp2WynFH9Uczclah

-2-0-0	5-5-8	11-6-3	17-0-0	24-5-0	29-9-0	35-5-4	41-5-0	43-5-0
2-0-0	5-5-8	6-0-11	5-5-13	7-5-0	5-4-0	5-8-4	5-11-12	2-0-0

Scale = 1:76.6

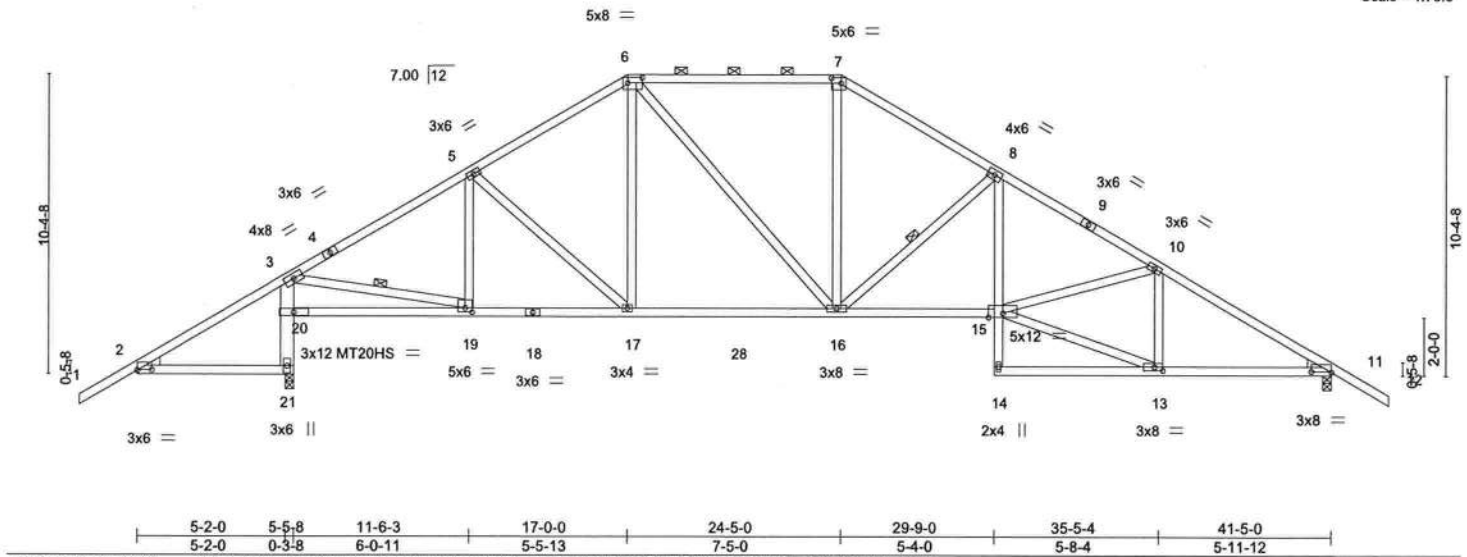


Plate Offsets (X,Y)--										[2-0-6-0,0-0-4], [6-0-6-0,0-2-4], [7-0-4-0,0-2-4], [11-0-8-0,0-0-4], [13-0-3-8,0-1-8], [19-0-3-0,0-1-12]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP			
TCLL	20.0	Plate Grip DOL 1.25		TC	0.65	Vert(LL)		-0.15	16-17	>999		240		MT20		244/190			
TCDL	7.0	Lumber DOL 1.25		BC	0.98	Vert(CT)		-0.29	16-17	>999		180		MT20HS		187/143			
BCLL	0.0 *	Rep Stress Incr YES		WB	0.89	Horz(CT)		0.12	11	n/a		n/a							
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS										Weight: 254 lb		FT = 20%			

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
6-7: 2x4 SP M 31
BOT CHORD 2x4 SP No.2 *Except*
3-21: 2x6 SP No.2, 8-14: 2x4 SP No.3
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS.

(size) 21=0-3-8, 11=0-3-8
Max Horz 21=-277(LC 10)
Max Uplift 21=-384(LC 12), 11=-305(LC 13)
Max Grav 21=1877(LC 1), 11=1403(LC 1)

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

TOP CHORD 2-3=-589/613, 3-5=-1454/463, 5-6=-1460/656, 6-7=-1412/732, 7-8=-1702/776,
8-10=-2505/1005, 10-11=-2140/868
BOT CHORD 2-21=-464/626, 20-21=-1834/1074, 3-20=-1760/1076, 19-20=-1225/1585,
17-19=-246/1298, 16-17=-158/1220, 15-16=-582/2109, 8-15=-221/709, 11-13=-609/1777
WEBS 3-19=-1677/2334, 5-19=-335/370, 6-17=-41/300, 6-16=-177/392, 7-16=-136/554,
8-16=-995/480, 13-15=-640/1858, 10-15=-77/354, 10-13=-565/270

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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) 21=384, 11=305.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 9,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - 1740 MODEL	T19630227
2280164	T20	Piggyback Base	4	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8,240 s Feb 7 2020 MiTek Industries, Inc. Mon Mar 9 09:36:04 2020 Page 1

ID:2eRY39KfHr2benj7cX74RUzckGi-dc798Dc_AFCZWmoH3_1aTjC4j6GXH_RFEZmGYVzclaf

-2-0-0	5-5-8	11-3-4	17-0-0	24-5-0	30-1-13	34-3-8	37-9-2	41-5-0	43-5-0
2-0-0	5-5-8	5-9-11	5-8-12	7-5-0	5-8-13	4-1-12	3-5-10	3-7-14	2-0-0

Scale = 1:76.4

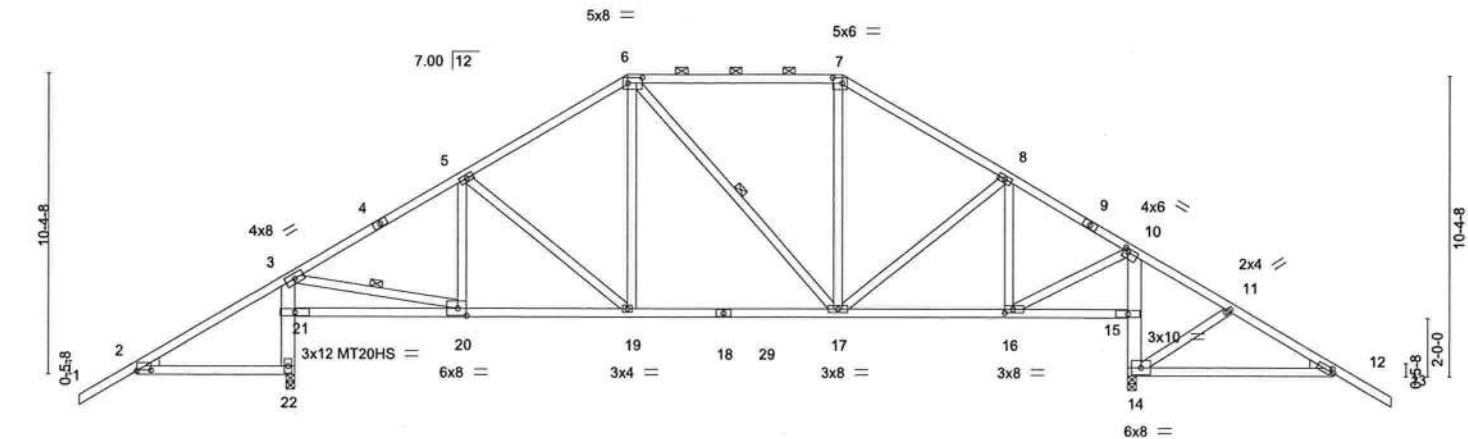


Plate Offsets (X,Y)=-	[2:0-6-0,0-0-4], [6:0-6-0,0-2-4], [7:0-4-0,0-2-4], [10:0-1-12,0-1-8], [12:0-1-1,0-1-8], [16:0-3-8,0-1-8], [20:0-3-8,0-3-0]
-----------------------	--

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.79	Vert(LL) -0.09	17-19	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.96	Vert(CT) -0.17	17-19	>999	180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.73	Horz(CT) 0.30	14	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS						
							Weight: 250 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 3-22: 2x6 SP No.2, 10-14: 2x6 SP M 26
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-7-6 oc purlins, except
 2-0-0 oc purlins (4-8-2 max.): 6-7.
 BOT CHORD Rigid ceiling directly applied or 4-0-6 oc bracing.
 WEBS 1 Row at midpt 3-20, 6-17

REACTIONS.

(size) 22=0-3-8, 14=0-3-8
 Max Horz 22=-277(LC 10)
 Max Uplift 22=-345(LC 12), 14=-376(LC 13)
 Max Grav 22=1547(LC 1), 14=1734(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-589/614, 3-5=-1005/191, 5-6=-907/333, 6-7=-766/311, 7-8=-838/288,
 8-10=-656/98, 10-11=-679/741, 11-12=-617/573
 BOT CHORD 2-22=-465/627, 21-22=-1504/898, 3-21=-1433/900, 20-21=-1249/1607, 19-20=-250/954,
 17-19=-159/833, 16-17=0/486, 15-16=-1179/1544, 14-15=-1585/964, 10-15=-1526/949,
 12-14=-448/640
 WEBS 3-20=-1463/1927, 5-20=-271/340, 5-19=-266/127, 6-19=-41/332, 8-17=-277/348,
 8-16=-661/592, 10-16=-1196/1664, 11-14=-252/196

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x6 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, 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) 22=345, 14=376.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

March 9,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

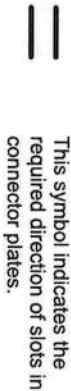
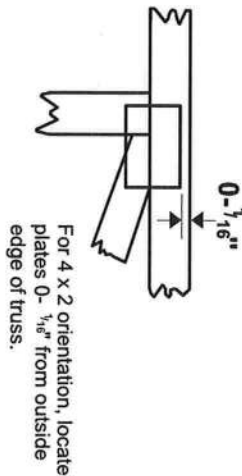
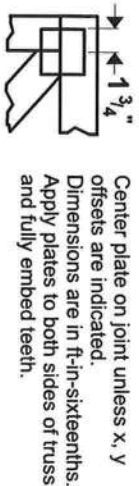
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.
 Tampa, FL 36610

Symbols

PLATE LOCATION AND ORIENTATION



* Plate location details available in MITek 20/20 software or upon request.

PLATE SIZE

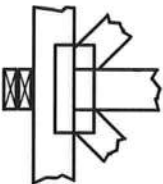
4 X 4

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

LATERAL BRACING LOCATION



BEARING



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

Industry Standards:

ANSI/TP1: National Design Specification for Metal

Plate Connected Wood Truss Construction.

DSB-89: Design Standard for Bracing.

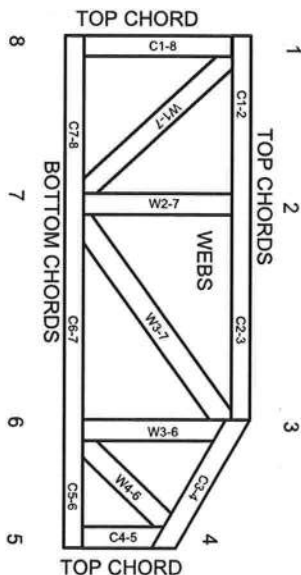
BCSI: Building Component Safety Information,

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

© 2012 MITek® All Rights Reserved



MITek Engineering Reference Sheet: MIL-7473 rev. 10/03/2015



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 1 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 ware at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.