

RE: J0621-4014

Lot 10 Pendegraft Rd.

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J0621-4014

Lot/Block: Model:
Address: Subdivision:
City: State:

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

Design Code: IRC2015/TPl2014 Design Program: MiTek 20/20 8.3

Wind Code: N/A Wind Speed: N/A mph Roof Load: N/A psf Floor Load: 55.0 psf

This package includes 14 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E15774719	ET-1	6/24/2021
2	E15774720	ET-2	6/24/2021
3	E15774721	ET-3	6/24/2021
4	E15774722	ET-4	6/24/2021
5	E15774723	ET-5	6/24/2021
6	E15774724	F01	6/24/2021
7	E15774725	F02	6/24/2021
8	E15774726	F03	6/24/2021
9	E15774727	F04	6/24/2021
10	E15774728	F07	6/24/2021
11	E15774729	F08	6/24/2021
12	E15774730	F09	6/24/2021
13	E15774731	F11	6/24/2021
14	E15774732	F12	6/24/2021

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2021

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



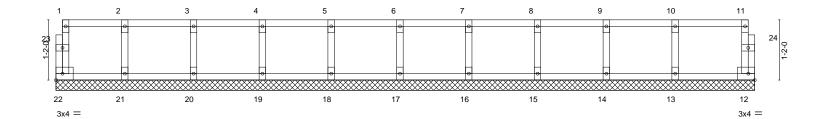
June 24, 2021

Job	Truss	Truss Type	Qty	Ply	Lot 10 Pendegraft Rd.
					E15774719
J0621-4014	ET-1	Floor Supported Gable	1	1	
					Job Reference (ontional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 26 09:38:58 2021 Page 1 ID:WeU20_wZYqtTA5MeuIVrNlzoaVc-tjIWRphlq6kTb3Q32kCsvk6Ua4MOe4kSZHVGGHzCg7x

0118

0₁1₇8 Scale = 1:22.3



		13-6-8		
LOADING (psf) TCLL 40.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00	CSI. TC 0.08 BC 0.01	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) n/a - n/a 999 MT20 244/190 Vert(CT) n/a - n/a 999	0
BCLL 0.0 BCDL 5.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.03 Matrix-R	Horz(CT) 0.00 12 n/a n/a Weight: 57 lb FT =	= 20%F, 11%E

13-6-8

LUMBER-**BRACING-**

TOP CHORD TOP CHORD 2x4 SP No.1(flat) Structural wood sheathing directly applied or 6-0-0 oc purlins, 2x4 SP No.1(flat) **BOT CHORD** except end verticals.

2x4 SP No.3(flat) **BOT CHORD** WFBS Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.3(flat)

REACTIONS. All bearings 13-6-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

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

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



May 26,2021



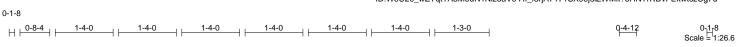
Job	Truss	Truss Type	Qty	Ply	Lot 10 Pendegraft Rd.
					E15774720
J0621-4014	ET-2	Floor	1	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 26 09:39:01 2021 Page 1 ID:WeU20_wZYqtTA5MeuIVrNIzoaVc-HI_f3rjA7171SX9ejsIZWMk?oHNTrRDvFEkwtczCg7u

12-9₁8

16-1-0



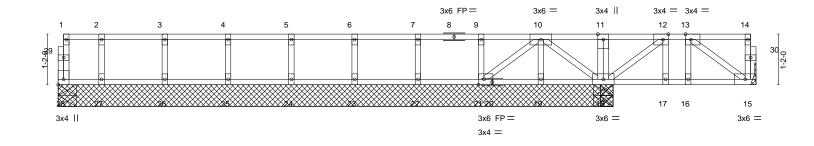


Plate Offsets (X,Y) [12:0-1-8,Edge], [13:0-1-8,Edge], [21:0-	12-6-12 ·1-8,Edge], [28:Edge,0-1-8]					0-2-12	3-3	-8
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.08 BC 0.05 WB 0.05 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (-0.00 -0.00 0.00	16	I/defl >999 >999 n/a	L/d 480 360 n/a		PLATES MT20 Weight: 78 lb	GRIP 244/190 FT = 20%F, 11%E

LUMBER-BRACING-

TOP CHORD 2x4 SP No.1(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.1(flat) except end verticals. WFBS

BOT CHORD 2x4 SP No.3(flat) Rigid ceiling directly applied or 10-0-0 oc bracing.

12-6-12

REACTIONS. All bearings 12-9-8 except (jt=length) 28=0-5-0, 28=0-5-0, 15=Mechanical, 18=0-5-8, 18=0-5-8, 18=0-5-8. (lb) - Max Grav All reactions 250 lb or less at joint(s) 28, 28, 15, 19, 21, 22, 23, 24, 25, 26, 27 except 18=307(LC 25), 18=301(LC 1), 18=301(LC 1)

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

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.





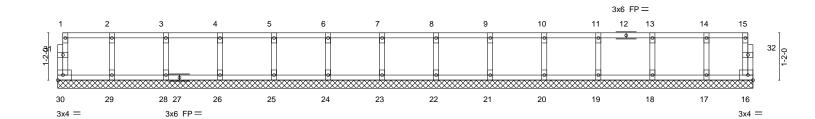
Job	Truss	Truss Type	Qty	Ply	Lot 10 Pendegraft Rd.
					E15774721
J0621-4014	ET-3	Floor Supported Gable	1	1	
					Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 26 09:39:02 2021 Page 1 ID:WeU20_wZYqtTA5MeuIVrNIzoaVc-IUY1HBkouLFu4hkrHaHo3ZGBzhjOatk2UuTUQ2zCg7t

0-1-8

0-ე1_8

Scale = 1:28.4



	17-1-12 17-1-12								
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.06 BC 0.01 WB 0.03 Matrix-R	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 16	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 72 lb	GRIP 244/190 FT = 20%F, 11%E

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, 2x4 SP No.1(flat) BOT CHORD except end verticals.

2x4 SP No.3(flat) **BOT CHORD** WFBS Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 17-1-12.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17

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

OTHERS

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.

2x4 SP No.3(flat)

- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



Job	Truss	Truss Type	Qty	Ply	Lot 10 Pendegraft Rd.
					E15774722
J0621-4014	ET-4	Floor Supported Gable	1	1	
					Job Reference (optional)

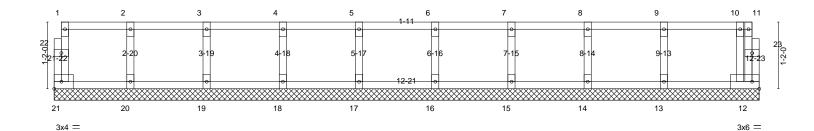
Comtech, Inc., Fayetteville, NC 28309, Mitek

0₁1₇8

8.330 s Jan 15 2021 MiTek Industries, Inc. Wed May 26 10:40:42 2021 Page 1 ID:WeU20_wZYqtTA5MeuIVrNIzoaVc-VLBH0uyXKaz5yPW7eQZk49PGW?se06TmTShmxFzCg6J

0,1,8

Scale = 1:20.2



	12-4-0 12-4-0							
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.07 BC 0.02 WB 0.03 Matrix-R	Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 12	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 54 lb	GRIP 244/190 FT = 20%F, 11%E

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) 2x4 SP No.3(flat) **WEBS**

2x4 SP No.3(flat) OTHERS

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-4-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 21, 12, 20, 19, 18, 17, 16, 15, 14, 13

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

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.





Job Truss Truss Type Qty Ply Lot 10 Pendegraft Rd. E15774723 J0621-4014 ET-5 Floor Supported Gable Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 26 09:39:03 2021 Page 1 ID:WeU20_wZYqtTA5MeuIVrNIzoaVc-Dh6PUXIQffNlirJ1rHo1bnpMk53bJK?CiYD1yUzCg7s 0-1-8 4 1.5x3 || 2 1.5x3 || 3 1.5x3 || Scale = 1:8.6 10 9 3x4 =3x4 =8 7 6 5 3x4 = 1.5x3 || 1.5x3 || 3x4 =3-8-8 Plate Offsets (X,Y)--[9:0-1-8,0-1-8], [10:0-1-8,0-1-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES GRIP** TCLL 40.0 Plate Grip DOL 1.00 TC 0.06 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.00 вс Vert(CT) 10.0 0.01 n/a n/a 999 WB 0.03 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 5 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

REACTIONS.

BCDL

2x4 SP No.1(flat) 2x4 SP No.1(flat)

All bearings 3-8-8.

BOT CHORD 2x4 SP No.3(flat) WFBS

5.0

OTHERS 2x4 SP No.3(flat)

(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

Code IRC2015/TPI2014

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

NOTES-

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

Matrix-R



Weight: 18 lb

Structural wood sheathing directly applied or 3-8-8 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

FT = 20%F, 11%E





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

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

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

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

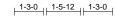


Job	Truss	Truss Type	Qty	Ply	Lot 10 Pendegraft Rd.
					E15774724
J0621-4014	F01	Floor	4	1	
					Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 26 09:39:04 2021 Page 1 ID:WeU20_wZYqtTA5MeuIVrNIzoaVc-htfnitm3QyVcJ_uDP?JG8_MK7VGA2aYLxCyaUxzCg7r

0-1-8





21-0-10

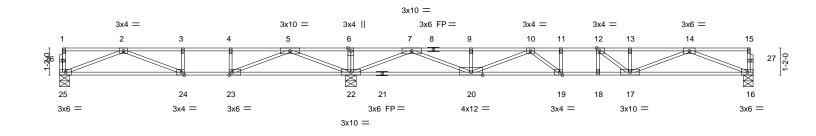
except end verticals.

20-11-0

Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

0-1-8 Scale = 1:49.7



L		12-0-12		20-3-4	21-3-	10	23-11-0	
		12-6-12	l	7-10-8	1-4-6	S ¹	8-1-6	<u> </u>
Plate C	Offsets (X,Y)	[12:0-1-8,Edge], [19:0-1-8,Edge], [23:0-	1-8,Edge], [24:0-1-8,E	Edge]				
TCLL TCDL BCLL	ING (psf) 40.0 10.0 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.85 BC 0.63 WB 0.84	Vert(LL) -0.2	n (loc) l/defl 5 19-20 >833 5 24-25 >426 5 16 n/a	L/d 480 360 n/a	PLATES MT20	GRIP 244/190
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S				Weight: 145 lb	FT = 20%F, 11%E

20-5-4

BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.1(flat) 2x4 SP No.1(flat)

BOT CHORD WFBS 2x4 SP No.3(flat)

(size) 25=0-5-0, 22=0-5-8, 16=0-5-0

Max Grav 25=597(LC 3), 22=1933(LC 1), 16=844(LC 7)

12-6-12

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

TOP CHORD 2-3=-1551/275, 3-4=-1551/275, 4-5=-1551/275, 5-6=0/2162, 6-7=0/2162, 7-9=-2242/0,

9-10=-2242/0, 10-11=-3119/0, 11-12=-3119/0, 12-13=-2849/0, 13-14=-2849/0

24-25=0/1196, 23-24=-275/1551, 22-23=-972/641, 20-22=-274/695, 19-20=0/3010, BOT CHORD

18-19=0/3119. 17-18=0/3119. 16-17=0/1819

WFBS $6\text{-}22\text{=-}304/0,\ 2\text{-}25\text{=-}1280/0,\ 2\text{-}24\text{=-}302/384,\ 5\text{-}22\text{=-}1863/0,\ 5\text{-}23\text{=-}0/1344,\ 4\text{-}23\text{=-}402/0,}$

 $7\hbox{-}22\hbox{=-}2468/0,\, 7\hbox{-}20\hbox{=-}0/1772,\, 9\hbox{-}20\hbox{=-}267/0,\, 14\hbox{-}16\hbox{=-}1951/0,\, 14\hbox{-}17\hbox{=-}0/1111,\, 14\hbox{--}0/1111,\, 14\hbox{$

12-17=-516/154, 10-20=-942/0, 10-19=-62/516

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.





Job	Truss	Truss Type	Qty	Ply	Lot 10 Pendegraft Rd.
					E15774725
J0621-4014	F02	Floor	1	1	
					Job Reference (optional)

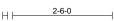
8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 26 09:39:05 2021 Page 1 ID:WeU20_wZYqtTA5MeuIVrNlzoaVc-93DAvDmhAGdTx8SQyiqVhCuaDvYin4PUAsi80NzCg7q

Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

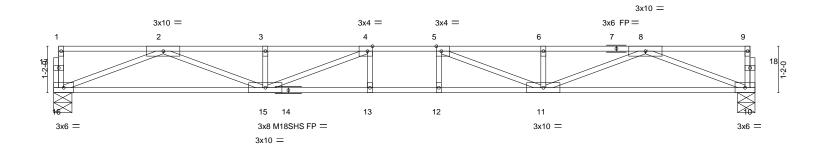
except end verticals.

0-1-8



1-7-4

0-1-8 Scale = 1:28.9



			1117	
Plate Offsets (X,Y)	[4:0-1-8,Edge], [5:0-1-8,Edge]			
	7 0 1/1 / 0 1			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.57	Vert(LL) -0.30 12-13 >699 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.87	Vert(CT) -0.41 12-13 >507 360	M18SHS 244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.68	Horz(CT) 0.07 10 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 86 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No 1(flat) 2x4 SP No.1(flat)

BOT CHORD 2x4 SP No.3(flat) WFBS

REACTIONS. (size) 16=0-5-8, 10=0-5-4

Max Grav 16=948(LC 1), 10=948(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-3390/0, 3-4=-3390/0, 4-5=-3953/0, 5-6=-3390/0, 6-8=-3390/0 TOP CHORD **BOT CHORD** 15-16=0/2074, 13-15=0/3953, 12-13=0/3953, 11-12=0/3953, 10-11=0/2074

WEBS 2-16=-2224/0, 2-15=0/1421, 3-15=-299/0, 8-10=-2224/0, 8-11=0/1421, 6-11=-299/0,

5-11=-890/0. 4-15=-890/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 1.5x3 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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

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

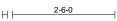
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 10 Pendegraft Rd.
					E15774726
J0621-4014	F03	Floor	8	1	
					Job Reference (optional)

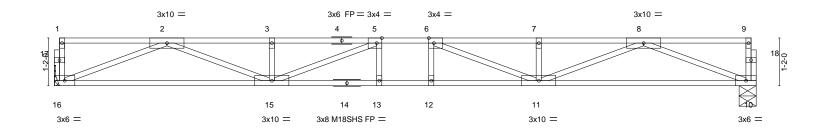
8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 26 09:39:05 2021 Page 1 ID:WeU20_wZYqtTA5MeuIVrNlzoaVc-93DAvDmhAGdTx8SQyiqVhCubCvaHn4uUAsi80NzCg7q

0-1-8



1-1-12

0-1-8 Scale = 1:28.1



			17-1-12	
Plate Offsets (X,Y)-				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.51	Vert(LL) -0.27 12-13 >751 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.76	Vert(CT) -0.37 12-13 >545 360	M18SHS 244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.65	Horz(CT) 0.06 10 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 85 lb FT = 20%F, 11%E

17-1-12

LUMBER-

TOP CHORD 2x4 SP No.1(flat) 2x4 SP No.1(flat)

WEBS 2x4 SP No.3(flat)

BOT CHORD

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=Mechanical, 10=0-5-0

Max Grav 16=923(LC 1), 10=923(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3266/0, 3-5=-3266/0, 5-6=-3762/0, 6-7=-3266/0, 7-8=-3266/0 **BOT CHORD** 15-16=0/2010, 13-15=0/3762, 12-13=0/3762, 11-12=0/3762, 10-11=0/2010 **WEBS**

2-16=-2156/0, 2-15=0/1356, 3-15=-292/0, 8-10=-2156/0, 8-11=0/1356, 7-11=-292/0,

6-11=-788/0. 5-15=-788/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 1.5x3 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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

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



Job	Truss	Truss Type	Qty	Ply	Lot 10 Pendegraft Rd.
					E15774727
J0621-4014	F04	Floor	9	1	
					Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 26 09:39:06 2021 Page 1 ID:WeU20_wZYqtTA5MeuIVrNIzoaVc-eGnY6YnJxalKZI1cWQLkDPRobl_4Wb1eOWRhZpzCg7p

Structural wood sheathing directly applied or 6-0-0 oc purlins,

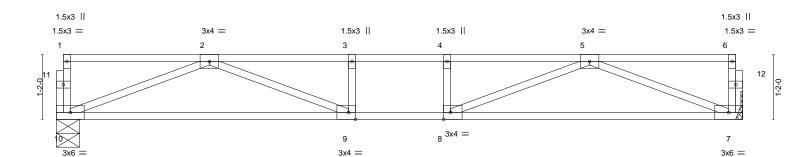
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

0₁1₈ Scale = 1:20.7

0-1-8





	12-4-0	
	12-4-0	
Plate Offsets (X Y) [8:0-1-8 Edge] [9:0-1-8 Edge]		

I late Oil	3013 (X, I)	[0.0-1-0,Luge], [3.0-1-0,Luge]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.34	Vert(LL) -0.13 9-10 >999 480	MT20 244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.47	Vert(CT) -0.20 9-10 >716 360	
BCLL	0.0	Rep Stress Incr YES	WB 0.40	Horz(CT) 0.02 7 n/a n/a	
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 60 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SP No.1(flat) TOP CHORD BOT CHORD 2x4 SP No.1(flat)

2x4 SP No.3(flat) WFBS

REACTIONS. (size) 10=0-5-0, 7=Mechanical Max Grav 10=658(LC 1), 7=658(LC 1)

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

2-3=-1931/0, 3-4=-1931/0, 4-5=-1931/0 TOP CHORD 9-10=0/1351, 8-9=0/1931, 7-8=0/1351 **BOT CHORD**

WEBS 5-7=-1447/0, 2-10=-1447/0, 5-8=0/720, 2-9=0/720

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.







Job	Truss	Truss Type	Qty	Ply	Lot 10 Pendegraft Rd.
10004 4044	507		_		E15774728
J0621-4014	F07	Floor	/	1	
					Job Reference (optional)

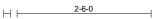
8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 26 09:39:07 2021 Page 1 ID:WeU20_wZYqtTA5MeuIVrNIzoaVc-6SLwKuoxittBASco47szmd_ytiIRF2?ndABE5GzCg7o

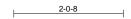
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

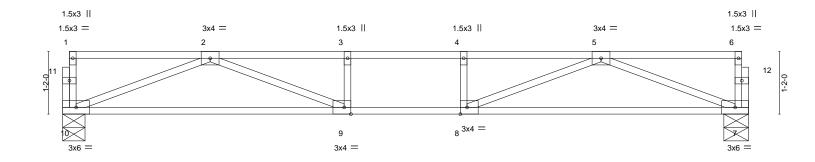
except end verticals.

0-1-8





0₇1₇8 Scale = 1:21.5



	12-9-8	
	12-9-8	
Plate Offsets (X Y) [8:0-1-8 Edge] [9:0-1-8 Edge]		

_ Flate OII	Seis (A, I)	[o.u-1-o,Euge], [s.u-1-o,Euge]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.43	Vert(LL) -0.17 9-10 >899 480	MT20 244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.53	Vert(CT) -0.24 9-10 >624 360	
BCLL	0.0	Rep Stress Incr YES	WB 0.41	Horz(CT) 0.03 7 n/a n/a	
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 61 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SP No.1(flat) TOP CHORD 2x4 SP No.1(flat)

BOT CHORD

2x4 SP No.3(flat) WFBS

REACTIONS. (size) 10=0-5-0, 7=0-5-8

Max Grav 10=684(LC 1), 7=684(LC 1)

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

TOP CHORD 2-3=-2062/0, 3-4=-2062/0, 4-5=-2062/0 9-10=0/1412, 8-9=0/2062, 7-8=0/1412 **BOT CHORD**

WEBS 5-7=-1512/0, 2-10=-1512/0, 5-8=0/805, 2-9=0/805

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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

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

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

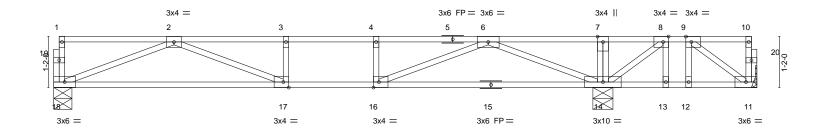
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

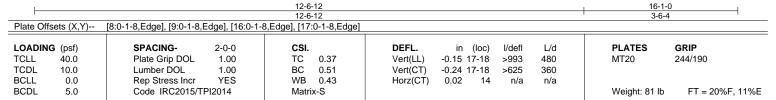


Job	Truss	Truss Type	Qty	Ply	Lot 10 Pendegraft Rd.	
					E157747	29
J0621-4014	F08	Floor	1	1		
					Job Reference (optional)	
Comtech, Inc, Fayettev	ille, NC - 28314,		8	.330 s Oct	7 2020 MiTek Industries, Inc. Wed May 26 09:39:08 2021 Page 1	
		15.14			N. I. N. S.	

ID:WeU20_wZYqtTA5MeuIVrNIzoaVc-aevIXEpZTB?2ocB_erOClqW8Z6fz_VxxsqwodizCg7n

0-1-8 2-6-0 1-11-4 1-3-0 0-4-12 1-3-0 0₁-8 Scale = 1:26.4 $H \vdash$





BOT CHORD

LUMBER-**BRACING-**TOP CHORD

2x4 SP No.1(flat) TOP CHORD BOT CHORD 2x4 SP No.1(flat)

WFBS 2x4 SP No.3(flat)

REACTIONS. (size) 11=Mechanical, 18=0-5-0, 14=0-5-8

Max Uplift 11=-150(LC 3)

Max Grav 11=161(LC 7), 18=621(LC 10), 14=1133(LC 8)

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

2-3=-1696/0, 3-4=-1696/0, 4-6=-1696/0, 6-7=0/836, 7-8=0/829, 8-9=-126/289 TOP CHORD

BOT CHORD 17-18=0/1256, 16-17=0/1696, 14-16=0/866, 13-14=-289/126, 12-13=-289/126,

> 11-12=-289/126 2-18=-1345/0. 6-14=-1575/0. 2-17=0/495. 6-16=0/911. 4-16=-285/0. 8-14=-662/0.

9-11=-151/362

NOTES-

WFBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 11.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.



Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

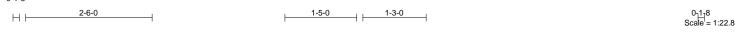
except end verticals.

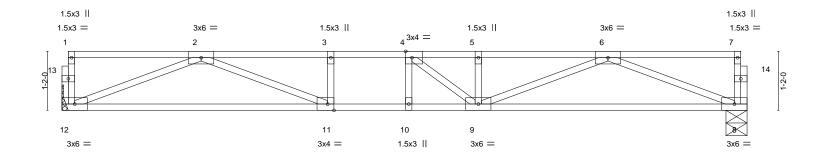
May 26,2021



Job	Truss	Truss Type	Qty	Ply	Lot 10 Pendegraft Rd.
					E15774730
J0621-4014	F09	Floor	4	1	
					Job Reference (optional)
Comtech, Inc, Fay	etteville, NC - 28314,		8.	330 s Oct	7 2020 MiTek Industries, Inc. Wed May 26 09:39:10 2021 Page 1

ID:WeU20_wZYqtTA5MeuIVrNlzoaVc-W112ywqp?oFm2vLNIFQgOFcV_wJTSPFEJ8PviazCg7I 0-1-8





	6-9-4		8-2-0	1	3-6-8	
	6-9-4		1-4-12	'	5-4-8	
Plate Offsets (X,Y)	[4:0-1-8,Edge], [11:0-1-8,Edge]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) I/defl L/d	PLATES GRIP	
TCLL 40.0	Plate Grip DOL 1.00	TC 0.31	Vert(LL) -0.1	13 9-10 >999 480	MT20 244/19	90
TCDL 10.0	Lumber DOL 1.00	BC 0.64	Vert(CT) -0.1	17 11-12 >929 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.45	Horz(CT) 0.0	03 8 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			Weight: 67 lb FT	= 20%F, 11%E

BOT CHORD

LUMBER-**BRACING-**TOP CHORD

2x4 SP No.1(flat) TOP CHORD BOT CHORD 2x4 SP No.1(flat)

2x4 SP No.3(flat) WFBS

REACTIONS. (size) 12=Mechanical, 8=0-5-0 Max Grav 12=725(LC 1), 8=725(LC 1)

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

2-3=-2287/0, 3-4=-2287/0, 4-5=-2269/0, 5-6=-2269/0 TOP CHORD **BOT CHORD** 11-12=0/1519, 10-11=0/2287, 9-10=0/2287, 8-9=0/1519

WEBS 6-8=-1628/0, 6-9=0/809, 5-9=-257/12, 2-12=-1628/0, 2-11=0/869, 4-9=-345/231

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



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

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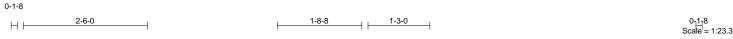
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

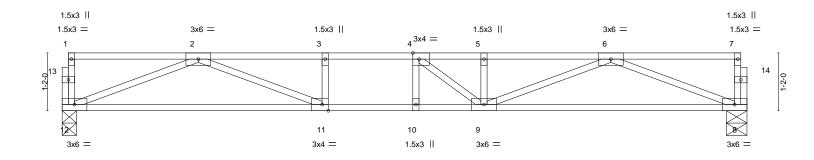
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



	Job	Truss	Truss Type	Qty	Ply	Lot 10 Pendegraft Rd.	
						E157747	31
	J0621-4014	F11	Floor	4	1		
						Job Reference (optional)	
	Comtech, Inc, Fayetteville, NC - 28314,			8.	330 s Oct	7 2020 MiTek Industries, Inc. Wed May 26 09:39:12 2021 Page 1	
			15 14/ 116			All A ODO N. AVOVUUDV COST LOCK ITM O O T O T	

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I.	13-10-0							
	13-10-0							
Plate Offsets (X,Y)	[4:0-1-8,Edge], [11:0-1-8,Edge]							

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.40	Vert(LL) -0.15 9-10 >999 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.71	Vert(CT) -0.20 9-10 >827 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.46	Horz(CT) 0.03 8 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 68 lb FT = 20%F, 11%E

BOT CHORD

LUMBER-**BRACING-**TOP CHORD

2x4 SP No.1(flat) TOP CHORD BOT CHORD 2x4 SP No.1(flat)

2x4 SP No.3(flat) WFBS

REACTIONS. (size) 12=0-3-8, 8=0-5-0

Max Grav 12=741(LC 1), 8=741(LC 1)

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

2-3=-2380/0, 3-4=-2380/0, 4-5=-2349/0, 5-6=-2349/0 TOP CHORD **BOT CHORD** 11-12=0/1559, 10-11=0/2380, 9-10=0/2380, 8-9=0/1560

WEBS 6-8=-1672/0, 6-9=0/852, 5-9=-264/19, 2-12=-1670/0, 2-11=0/932, 3-11=-256/0,

4-9=-380/226

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



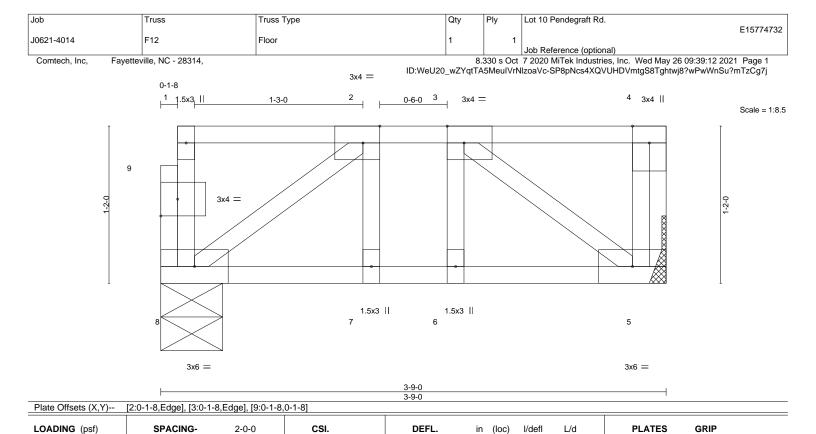
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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





Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.00

-0.00

0.00

>999

except end verticals.

n/a

6 >999

5

480

360

n/a

MT20

Structural wood sheathing directly applied or 3-9-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 24 lb

244/190

FT = 20%F, 11%E

LUMBER-

TCLL

TCDL

BCLL

BCDL

2x4 SP No.1(flat) TOP CHORD BOT CHORD 2x4 SP No.1(flat)

WEBS 2x4 SP No.3(flat)

40.0

10.0

0.0

5.0

REACTIONS. (size) 8=0-5-8, 5=Mechanical Max Grav 8=186(LC 1), 5=192(LC 1)

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

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

1.00

1.00

YES

TC

вс

WB

Matrix-S

0.09

0.06

0.05

- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

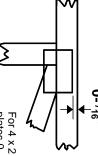


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE



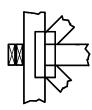
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



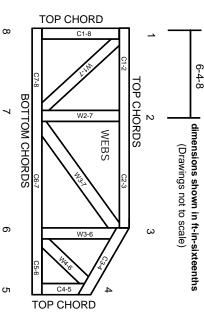
Min size shown is for crushing only number where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

National Design Specification for Metal Building Component Safety Information. Installing & Bracing of Metal Plate Connected Wood Trusses. Guide to Good Practice for Handling Design Standard for Bracing. Plate Connected Wood Truss Construction.

DSB-89: ANSI/TPI1:

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

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

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

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For bracing should be considered. may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

ω

designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building

4

- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

ტ. Ö

- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

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- Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- 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 project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.