

RE: J0124-0332

Lot 166 Duncans Creek

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J0124-0332

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

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.4

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

This package includes 19 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	162601229	2F01	12/18/2023
2	162601230	2F02	12/18/2023
3	162601231	2F03	12/18/2023
4	162601232	2F04	12/18/2023
5	162601233	2F05	12/18/2023
6	162601234	2F06	12/18/2023
7	162601235	2F07	12/18/2023
8	162601236	2F08	12/18/2023
9	162601237	2F09	12/18/2023
10	162601238	2F10-GR	12/18/2023
11	162601239	2F11	12/18/2023
12	162601240	2F11A	12/18/2023
13	162601241	2F12	12/18/2023
14	162601242	2F13	12/18/2023
15	162601243	2F14-GR	12/18/2023
16	162601244	2F15	12/18/2023
17	162601245	2FKW1	12/18/2023
18	162601246	2FKW2	12/18/2023
19	162601247	2FKW3	12/18/2023

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: Johnson, Andrew

My license renewal date for the state of North Carolina is December 31, 2024

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.

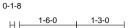


December 18, 2023

Job Tru	russ	Truss Type	Qty	Ply	Lot 166 Duncans Creek
10404 0000	F04	Fla	44		162601229
J0124-0332 2F	F01	Floor	11	1	Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 18 05:09:12 2023 Page 1 ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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



2-6-0



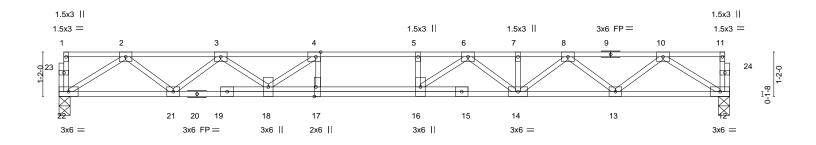


Plate Off	sets (X,Y)	[4:0-1-8,Edge], [17:0-3-0,Edge]			
LOADIN	G (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.52	Vert(LL) -0.20 16-17 >999 480	MT20 244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.63	Vert(CT) -0.28 16-17 >750 360	
BCLL	0.0	Rep Stress Incr YES	WB 0.39	Horz(CT) 0.05 12 n/a n/a	
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 96 lb FT = 20%F, 11%E

TOP CHORD

LUMBER-**BRACING-**

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

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

REACTIONS. (size) 22=0-3-8, 12=0-3-8 Max Grav 22=759(LC 1), 12=759(LC 1)

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

TOP CHORD 2-3=-1725/0, 3-4=-2780/0, 4-5=-3282/0, 5-6=-3282/0, 6-7=-2723/0, 7-8=-2723/0, 8-10=-1733/0

BOT CHORD $21-22=0/1098,\ 18-21=0/2361,\ 17-18=0/3282,\ 16-17=0/3282,\ 14-16=0/3056,\ 13-14=0/2322,\ 14-16=0/3056,\ 14-1$

12-13=0/1106

WFBS 2-22=-1301/0, 2-21=0/817, 3-21=-827/0, 3-18=0/535, 4-18=-791/0, 4-17=-73/304, 10-12=-1311/0, 10-13=0/816, 8-13=-767/0, 8-14=0/512, 6-14=-429/0, 6-16=0/513

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 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.



December 18,2023



Job Truss Truss Type Qty Ply Lot 166 Duncans Creek 162601230 Floor J0124-0332 2F02 Job Reference (optional)

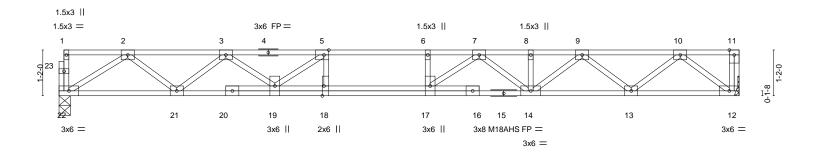
Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 18 05:09:13 2023 Page 1 ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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



2-5-8 Scale = 1:29.4



17-4-0 Plate Offsets (X,Y)--[5:0-1-8,Edge], [18:0-3-0,Edge] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP -0.19 17-18 244/190 TCLL 40.0 Plate Grip DOL 1.00 TC 0.34 Vert(LL) >999 480 MT20 TCDL 10.0 Lumber DOL 1.00 ВС 0.62 Vert(CT) -0.26 17-18 >797 360 M18AHS 186/179 **BCLL** 0.0 Rep Stress Incr YES WB 0.39 0.04 Horz(CT) 12 n/a n/a Code IRC2015/TPI2014 FT = 20%F. 11%E **BCDL** 5.0 Weight: 95 lb Matrix-S

TOP CHORD

LUMBER-**BRACING-**

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

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

REACTIONS. (size) 22=0-3-8, 12=Mechanical Max Grav 22=746(LC 1), 12=751(LC 1)

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

TOP CHORD 2-3=-1690/0, 3-5=-2712/0, 5-6=-3178/0, 6-7=-3178/0, 7-8=-2588/0, 8-9=-2588/0,

9-10=-1575/0

BOT CHORD 21-22=0/1078, 19-21=0/2311, 18-19=0/3178, 17-18=0/3178, 14-17=0/2935, 13-14=0/2176,

12-13=0/939

WFBS 2-22=-1277/0, 2-21=0/797, 3-21=-808/0, 3-19=0/515, 5-19=-748/0, 5-18=-83/283, 10-12=-1178/0, 10-13=0/829, 9-13=-781/0, 9-14=0/526, 7-14=-443/0, 7-17=0/520

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 3x4 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.
- 7) CAUTION, Do not erect truss backwards.





Job	Truss	Truss Type	Qty	Ply	Lot 166 Duncans Creek
10404 0000	0500				162601231
J0124-0332	2F03	Floor	1	1	Joh Deference (entional)
					Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

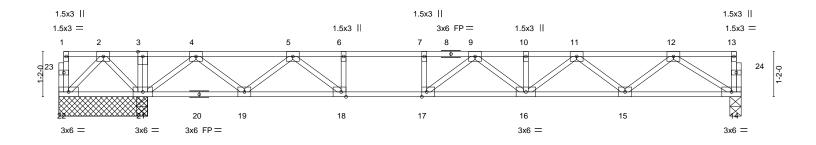
8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 18 05:09:14 2023 Page 1 ID: POCeVkxyg? KNuaGv8nie IHzJsMR-RfC? PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC? for the property of the proper

0-1-8









	2-2-0	0-1-8				15-4-					
Plate Offse	ets (X,Y)	[17:0-1-8,Edge], [18:0-1-8	B,Edge]								
LOADING	(psf)	SPACING-	1-7-3	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.74	Vert(LL)	-0.20 16-17	>921	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.28 16-17	>668	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02 14	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matrix	-S					Weight: 91 lb	FT = 20%F, 11%E

TOP CHORD

LUMBER-BRACING-

TOP CHORD 2x4 SP No.1(flat) **BOT CHORD** 2x4 SP No.1(flat) WEBS 2x4 SP No.3(flat) 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, Except: 6-0-0 oc bracing: 21-22,19-21.

REACTIONS. (size) 22=2-3-8, 21=2-3-8, 21=2-3-8, 14=0-3-8

Max Uplift 22=-526(LC 4)

Max Grav 21=1389(LC 1), 21=1389(LC 1), 14=595(LC 4)

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

2-3=0/1055, 3-4=0/1056, 4-5=-449/0, 5-6=-1717/0, 6-7=-1717/0, 7-9=-1717/0,

9-10=-1898/0, 10-11=-1898/0, 11-12=-1275/0

BOT CHORD 21-22=-521/0, 18-19=0/1089, 17-18=0/1717, 16-17=0/1964, 15-16=0/1690, 14-15=0/847 **WEBS** 2-22=0/745, 2-21=-812/0, 12-14=-1003/0, 12-15=0/557, 11-15=-540/0, 11-16=0/266, 9-17=-379/41, 4-21=-1139/0, 4-19=0/780, 5-19=-835/0, 5-18=0/830, 6-18=-361/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 22=526.
- 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.

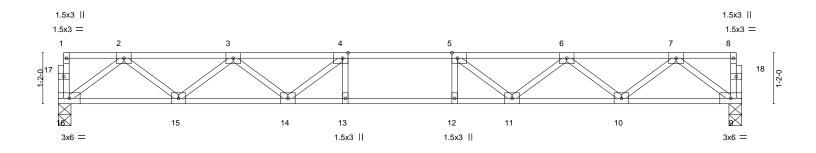




Job	Truss	Truss Type	Qty	Ply	Lot 166 Duncans Creek
					I62601232
J0124-0332	2F04	Floor	8	1	
					Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 18 05:09:15 2023 Page 1 ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





			15-7-8	
Plate Offsets (X,Y)-	[4:0-1-8,Edge], [5:0-1-8,Edge]			
LOADING (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.35	Vert(LL) -0.15 13-14 >999 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.67	Vert(CT) -0.20 13-14 >925 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.34	Horz(CT) 0.04 9 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 77 lb FT = 20%F, 11%E

15-7-8

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.

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

REACTIONS. (size) 16=0-3-8, 9=0-3-8 Max Grav 16=671(LC 1), 9=671(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1387/0, 3-4=-2187/0, 4-5=-2459/0, 5-6=-2187/0, 6-7=-1387/0

BOT CHORD $15 - 16 = 0/834,\ 14 - 15 = 0/1913,\ 13 - 14 = 0/2459,\ 12 - 13 = 0/2459,\ 11 - 12 = 0/2459,\ 10 - 11 = 0/1913,\ 13 - 14 = 0/2459,\ 12 - 13 = 0/2459,\ 11 - 12 = 0/2459,\ 10 - 11 = 0/1913,\ 11 - 12 = 0/2459,\ 11 - 12 = 0/2459,\ 10 - 11 = 0/1913,\ 11 - 12 = 0/2459,\ 11 - 12 = 0/2459,\ 11 - 12 = 0/2459,\ 10 - 11 = 0/1913,\ 11 - 12 = 0/2459,\ 11 - 12 = 0/$ 9-10=0/834

2-16=-1044/0, 2-15=0/720, 3-15=-684/0, 3-14=0/407, 4-14=-507/0, 7-9=-1044/0, **WEBS**

7-10=0/720, 6-10=-684/0, 6-11=0/407, 5-11=-507/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 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.





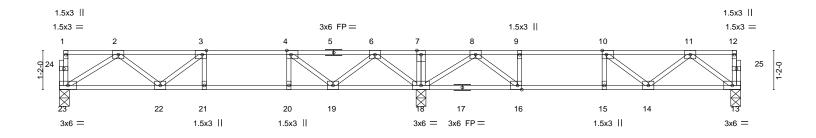
Job	Truss	Truss Type	Qty	Ply	Lot 166 Duncans Creek
					I62601233
J0124-0332	2F05	Floor	2	1	
					Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 18 05:09:16 2023 Page 1 ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

except end verticals.





L			10-3-4							20-3-0		
			10-9-4			ı				9-6-4		<u> </u>
Plate Of	fsets (X,Y)	[3:0-1-8,Edge], [4:0-1-8,E	dge], [10:0-1-	8,Edge], [16:	0-1-8,Edge]							
LOADIN TCLL TCDL	(psf) 40.0 10.0	SPACING- Plate Grip DOL Lumber DOL	1-7-3 1.00 1.00	CSI. TC BC	0.37 0.41	DEFL. Vert(LL) Vert(CT)	in -0.07 -0.09	(loc) 15 15	l/defl >999 >999	L/d 480 360	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0 5.0	Rep Stress Incr Code IRC2015/TP	YES PI2014	WB Matrix	0.26 c-S	Horz(CT)	0.02	13	n/a	n/a	Weight: 99 lb	FT = 20%F, 11%E

TOP CHORD

LUMBER-BRACING-

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

2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 16-18.

Max Grav 23=461(LC 10), 13=415(LC 7), 18=913(LC 1)

(size) 23=0-3-8, 13=0-3-8, 18=0-3-8

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

2-3=-912/0, 3-4=-1157/0, 4-6=-849/0, 6-7=-87/301, 7-8=-86/302, 8-9=-922/0, TOP CHORD

9-10=-922/0, 10-11=-739/0

BOT CHORD $22 - 23 = 0/644,\ 21 - 22 = 0/1157,\ 20 - 21 = 0/1157,\ 19 - 20 = 0/1157,\ 18 - 19 = 0/540,\ 16 - 18 = -2/590,\ 18 - 19 = 0/540,\ 18 - 1$

15-16=0/922, 14-15=0/922, 13-14=0/509

 $2\text{-}23\text{-}762/0,\ 2\text{-}22\text{=}0/349,\ 3\text{-}22\text{=}-313/0,\ 6\text{-}18\text{=}-715/0,\ 6\text{-}19\text{=}0/453,\ 4\text{-}19\text{=}-491/0,}$ WFBS

11-13=-637/0, 11-14=0/300, 8-18=-683/0, 8-16=0/542, 9-16=-257/0

NOTES-

REACTIONS.

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 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.



December 18,2023



Job Truss Truss Type Qty Ply Lot 166 Duncans Creek 162601234 Floor J0124-0332 2F06 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 18 05:09:17 2023 Page 1

Fayetteville, NC - 28314, Comtech, Inc.

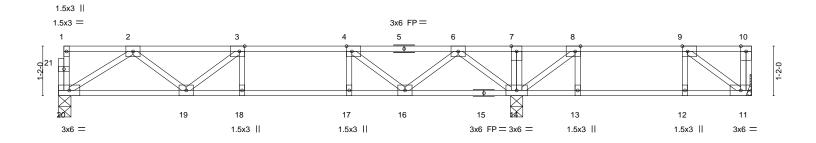
ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

except end verticals.



2-4-12 Scale = 1:27.1



		10-9-4					1		5-6-4	ı
/) [3:0-1-8,Edge], [4:0-1-8,	Edge], [8:0-1-8	,Edge], [9:0-1	-8,Edge]							
SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
Plate Grip DOL	1.00	TC	0.26	Vert(LL)	-0.06	18	>999	480	MT20	244/190
Lumber DOL	1.00	BC	0.40	Vert(CT)	-0.08	18	>999	360		
Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	11	n/a	n/a		
Code IRC2015/T	PI2014	Matrix	-S						Weight: 80 lb	FT = 20%F, 11%E
(,\))))) SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	SPACING- 1-7-3	(XY) [3:0-1-8,Edge], [4:0-1-8,Edge], [8:0-1-8,Edge], [9:0-1] SPACING- 1-7-3 CSI. Plate Grip DOL 1.00 TC Lumber DOL 1.00 BC Rep Stress Incr YES WB	(,Y) [3:0-1-8,Edge], [4:0-1-8,Edge], [8:0-1-8,Edge], [9:0-1-8,Edge] SPACING-	(,Y) [3:0-1-8,Edge], [4:0-1-8,Edge], [8:0-1-8,Edge], [9:0-1-8,Edge] () SPACING- 1-7-3 CSI. DEFL. () Plate Grip DOL 1.00 TC 0.26 Vert(LL) () Lumber DOL 1.00 BC 0.40 Vert(CT) () Rep Stress Incr YES WB 0.20 Horz(CT)	(X,Y) [3:0-1-8,Edge], [4:0-1-8,Edge], [8:0-1-8,Edge], [9:0-1-8,Edge] SPACING-	(,Y) [3:0-1-8,Edge], [4:0-1-8,Edge], [8:0-1-8,Edge], [9:0-1-8,Edge] SPACING-	(,Y) [3:0-1-8,Edge], [4:0-1-8,Edge], [8:0-1-8,Edge], [9:0-1-8,Edge] () SPACING- 1-7-3 CSI. DEFL. in (loc) I/defl () Plate Grip DOL 1.00 TC 0.26 Vert(LL) -0.06 18 >999 () Lumber DOL 1.00 BC 0.40 Vert(CT) -0.08 18 >999 () Rep Stress Incr YES WB 0.20 Horz(CT) 0.01 11 n/a	(,Y) [3:0-1-8,Edge], [4:0-1-8,Edge], [8:0-1-8,Edge], [9:0-1-8,Edge] () SPACING- 1-7-3 CSI. DEFL. in (loc) I/defl L/d () Plate Grip DOL 1.00 TC 0.26 Vert(LL) -0.06 18 >999 480 () Lumber DOL 1.00 BC 0.40 Vert(CT) -0.08 18 >999 360 () Rep Stress Incr YES WB 0.20 Horz(CT) 0.01 11 n/a n/a	(,Y) [3:0-1-8,Edge], [4:0-1-8,Edge], [8:0-1-8,Edge], [9:0-1-8,Edge] () SPACING- 1-7-3 CSI. DEFL. in (loc) I/defl L/d PLATES () Plate Grip DOL 1.00 TC 0.26 Vert(LL) -0.06 18 >999 480 MT20 () Lumber DOL 1.00 BC 0.40 Vert(CT) -0.08 18 >999 360 () Rep Stress Incr YES WB 0.20 Horz(CT) 0.01 11 n/a n/a

TOP CHORD

LUMBER-BRACING-

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

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

REACTIONS. (size) 20=0-3-8, 11=Mechanical, 14=0-3-8 Max Grav 20=456(LC 10), 11=239(LC 7), 14=744(LC 9)

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

TOP CHORD 2-3=-897/0, 3-4=-1129/0, 4-6=-807/0, 8-9=-280/0

19-20=0/637, 18-19=0/1129, 17-18=0/1129, 16-17=0/1129, 14-16=0/496, 13-14=0/280, BOT CHORD

12-13=0/280, 11-12=0/280

WEBS 2-20=-754/0, 2-19=0/339, 3-19=-307/0, 6-14=-718/0, 6-16=0/422, 4-16=-443/0,

9-11=-345/0, 8-14=-471/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 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 166 Duncans Creek 162601235 Floor J0124-0332 2F07

Fayetteville, NC - 28314, Comtech, Inc.

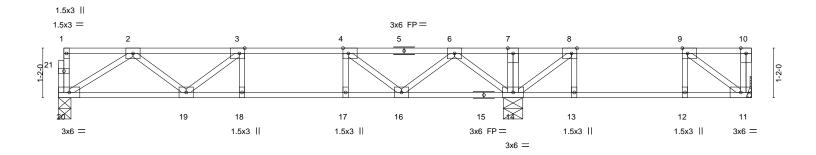
Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 18 05:09:18 2023 Page 1 ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

except end verticals.



2-5-12 Scale = 1:27.1



				10-8-4					1		16-3-8	
				10-8-4					1		5-7-4	ı
Plate Off	sets (X,Y)	[3:0-1-8,Edge], [4:0-1-8,E	Edge], [8:0-1-8	3,Edge], [9:0-	1-8,Edge]							
LOADIN	G (psf)	SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	-0.06	18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	ВС	0.39	Vert(CT)	-0.08	18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	11	n/a	n/a		
BCDL	5.0	Code IRC2015/TI	PI2014	Matri	x-S	, ,					Weight: 80 lb	FT = 20%F, 11%E

TOP CHORD

LUMBER-BRACING-

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

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

REACTIONS. (size) 20=0-3-8, 11=Mechanical, 14=0-5-8 Max Grav 20=452(LC 10), 11=242(LC 7), 14=743(LC 9)

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

TOP CHORD 2-3=-887/0, 3-4=-1115/0, 4-6=-801/0, 8-9=-284/0

19-20=0/632, 18-19=0/1115, 17-18=0/1115, 16-17=0/1115, 14-16=0/496, 13-14=0/284, BOT CHORD

12-13=0/284, 11-12=0/284

WEBS 2-20=-748/0, 2-19=0/333, 3-19=-303/0, 6-14=-713/0, 6-16=0/415, 4-16=-434/0,

9-11=-351/0, 8-14=-474/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 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 166 Duncans Creek
					I62601236
J0124-0332	2F08	Floor	1	1	
					Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 18 05:09:20 2023 Page 1 ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

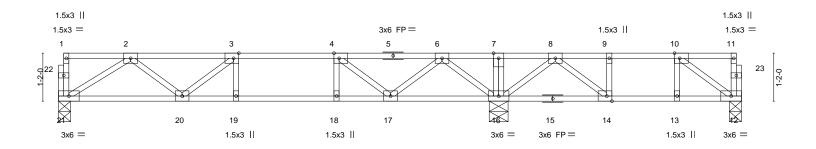
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.







	10-	·8-4		1			16-7-0	
ı	10-	5-10-12						
Plate Offsets (X,Y)	[3:0-1-8,Edge], [4:0-1-8,Edge], [10:0-1-8	3,Edge], [14:0-1-8,Edge]						
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 1-7-3 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.25 BC 0.43 WB 0.21 Matrix-S	Vert(CT) -	in (loc) 0.06 19 0.08 19 0.01 12	I/defI >999 >999 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 83 lb	GRIP 244/190 FT = 20%F. 11%E

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

WEBS 2x4 SP No.3(flat)

> (size) 21=0-3-8, 12=0-3-8, 16=0-5-8 Max Grav 21=436(LC 3), 12=228(LC 7), 16=815(LC 1)

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

TOP CHORD 2-3=-841/0, 3-4=-1029/0, 4-6=-673/0, 6-7=0/463, 7-8=0/463, 8-9=-277/6, 9-10=-277/6 BOT CHORD $20 - 21 = 0/609,\ 19 - 20 = 0/1029,\ 18 - 19 = 0/1029,\ 17 - 18 = 0/1029,\ 16 - 17 = -32/345,\ 13 - 14 = -6/277,$

12-13=-6/277

WEBS 2-21=-721/0, 2-20=0/301, 6-16=-721/0, 6-17=0/451, 4-17=-498/0, 10-12=-339/9,

8-16=-450/0, 8-14=0/302

NOTES-

REACTIONS.

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 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.



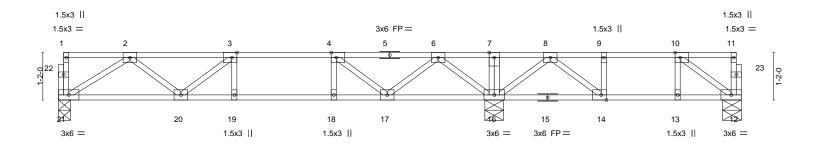


Job	Truss	Truss Type	Qty	Ply	Lot 166 Duncans Creek
J0124-0332	2500	Floor	,	_	I62601237
J0124-0332	2F09	Floor	4	1	Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 18 05:09:21 2023 Page 1 ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







			-8-4			16-9-0						
1		10-8-4										l
Plate Offse	ets (X,Y)	[3:0-1-8,Edge], [4:0-1-8,E	dge], [10:0-1-	-8,Edge], [14:	0-1-8,Edge							
LOADING	(psf)	SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.25	Vert(LL)	-0.06	19	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.08	19	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matri	k-S	, ,					Weight: 84 lb	FT = 20%F, 11%E

LUMBER-**BRACING-**

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

6-0-0 oc bracing: 16-17,14-16.

REACTIONS. (size) 21=0-3-8, 16=0-5-8, 12=0-5-8

Max Grav 21=437(LC 3), 16=821(LC 1), 12=232(LC 7)

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

2-3=-843/0, 3-4=-1034/0, 4-6=-680/0, 6-7=0/457, 7-8=0/457, 8-9=-286/0, 9-10=-286/0 TOP CHORD BOT CHORD $20-21=0/611,\ 19-20=0/1034,\ 18-19=0/1034,\ 17-18=0/1034,\ 16-17=-44/352,\ 13-14=0/286,$

12-13=0/286

WEBS 2-21=-723/0, 2-20=0/302, 6-16=-722/0, 6-17=0/452, 4-17=-499/0, 8-16=-456/0,

8-14=0/312, 10-12=-351/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 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.



December 18,2023



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPII Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Lot 166 Duncans Creek Ply 162601238 2F10-GR J0124-0332 FLOOR GIRDER

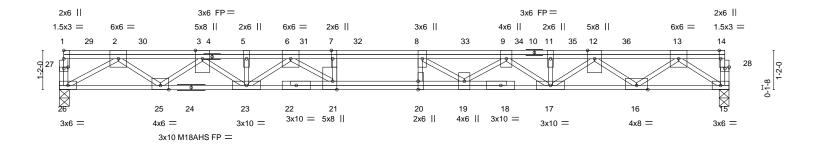
Fayetteville, NC - 28314, Comtech, Inc.

Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 18 05:09:22 2023 Page 1 ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



2-5-0

0-1-8 Scale = 1:34.3



19-11-0 Plate Offsets (X,Y)--[7:0-3-0,Edge], [14:0-3-0,Edge], [20:0-3-0,0-0-0], [21:0-3-0,Edge], [27:0-1-8,0-0-8], [28:0-1-8,0-0-8] LOADING (psf) SPACING-(loc) I/defl L/d **PLATES GRIP** TCLL 40.0 Plate Grip DOL 1.00 TC 0.26 Vert(LL) -0.33 20 >707 480 MT20 244/190 TCDL 10.0 Lumber DOL 1.00 ВС 0.98 Vert(CT) -0.47 20 >500 360 M18AHS 186/179

BCLL Rep Stress Incr NO WB 0.76 0.09 15 0.0 Horz(CT) n/a n/a Code IRC2015/TPI2014 **BCDL** FT = 20%F, 11%E 5.0 Matrix-S Weight: 135 lb

BRACING-

2x4 SP 2400F 2.0E(flat) 2x4 SP 2400F 2.0E(flat) TOP CHORD BOT CHORD WEBS

2x4 SP No.3(flat)

TOP CHORD

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

except end verticals.

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

REACTIONS. (size) 26=0-3-8, 15=0-3-8

Max Grav 26=1339(LC 1), 15=1309(LC 1)

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

TOP CHORD 2-3=-3284/0, 3-5=-5330/0, 5-6=-5330/0, 6-7=-6956/0, 7-8=-6956/0, 8-9=-6522/0,

9-11=-5156/0, 11-12=-5156/0, 12-13=-3032/0

BOT CHORD 25-26=0/2067, 23-25=0/4440, 21-23=0/6083, 20-21=0/6956, 19-20=0/6956, 17-19=0/6045,

16-17=0/4235, 15-16=0/1777

WFBS 2-26=-2406/0, 2-25=0/1547, 3-25=-1468/0, 3-23=0/1111, 6-23=-939/0, 6-21=0/1172,

7-21=-491/0, 13-15=-2179/0, 13-16=0/1593, 12-16=-1528/0, 12-17=0/1149,

9-17=-1109/0, 9-19=0/652, 8-19=-660/0

NOTES-

LUMBER-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 130 lb down at 0-11-0, 130 lb down at 2-6-3, 130 lb down at 4-1-6, 130 lb down at 5-8-9, 128 lb down at 7-3-12, 79 lb down at 8-10-15, 95 lb down at 10-6-2, 128 lb down at 12-1-5, 128 lb down at 13-8-8, 128 lb down at 15-3-11, and 128 lb down at 16-10-14, and 128 lb down at 18-6-1 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 15-26=-8, 1-14=-80

Concentrated Loads (lb)

Vert: 3=-78(F) 5=-78(F) 13=-76(F) 8=-76(F) 29=-81(F) 30=-78(F) 31=-76(F) 32=-76(F) 33=-76(F) 34=-76(F) 35=-76(F) 36 = -76(F)



December 18,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Lot 166 Duncans Creek
10404 0000	2F11	FLOOR			I62601239
J0124-0332	2F11	FLOOR	8	1	Job Reference (optional)

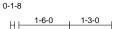
Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 18 05:09:23 2023 Page 1 ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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 Scale = 1:34.3

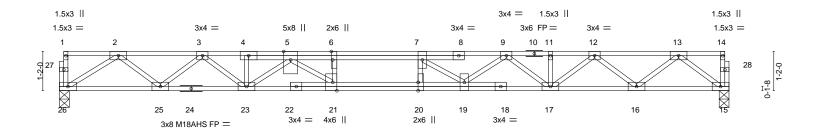


Plate Offsets (X,Y)-- [6:0-3-0,Edge], [20:0-3-0.0-0-0]. [21:0-3-0.Edge]

	(1.1, 1.)	[0:0 0 0;2490]; [20:0 0 0;0 0	· • j, [= · · · ·	-,								
LOADING	(psf)	SPACING- 1	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	-0.24	20	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.32	20	>729	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.05	15	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI20	014	Matri	x-S						Weight: 117 lb	FT = 20%F, 11%E

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 26=0-3-8, 15=0-3-8 Max Grav 26=860(LC 1), 15=860(LC 1)

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

TOP CHORD 2-3=-2012/0, 3-4=-3235/0, 4-5=-3239/0, 5-6=-4476/0, 6-7=-4476/0, 7-9=-4052/0,

9-11=-3147/0, 11-12=-3147/0, 12-13=-1861/0 BOT CHORD

 $25 - 26 = 0/1263, \ 23 - 25 = 0/2714, \ 21 - 23 = 0/3915, \ 20 - 21 = 0/4476, \ 19 - 20 = 0/4476, \ 17 - 19 = 0/3648, \ 20 - 21 = 0/4476, \ 20 -$

16-17=0/2594, 15-16=0/1087

2-26=-1498/0, 2-25=0/974, 3-25=-914/0, 3-23=0/665, 13-15=-1362/0, 13-16=0/1007, WFBS

12-16=-955/0, 12-17=0/706, 9-17=-639/0, 9-19=0/558, 7-19=-717/0, 5-23=-848/0,

5-21=0/903, 6-21=-367/0

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 3x6 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.



December 18,2023



Job	Truss	Truss Type	Qty	Ply	Lot 166 Duncans Creek
10404 0000	05444				162601240
J0124-0332	2F11A	Floor	2	1	Job Reference (optional)

1-7-2 1-6-0 1-3-0

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 18 05:09:25 2023 Page 1 ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

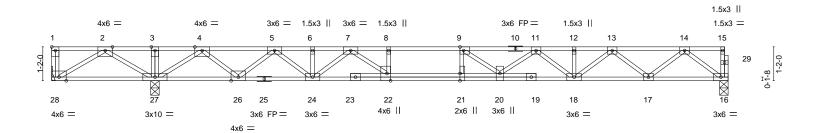
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

except end verticals.

6-0-0 oc bracing: 27-28,26-27.

2-4-12 0-11-8

Scale = 1:39.7



	00.2						,							
	3-6-12		· ·		19-9-4									
Plate Offset	ts (X,Y)	[1:Edge,0-1-8], [9:0-1-8,E	dge], [21:0-3-	0,0-0-0], [22:	0-3-0,Edge]									
LOADING	(psf)	SPACING-	1-7-3	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP			
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.26 20-21	>916	480	MT20	244/190			
TCDL	10.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.35 20-21	>669	360					
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.03 16	n/a	n/a					
BCDL	5.0	Code IRC2015/TF	PI2014	Matri	x-S					Weight: 127 lb	FT = 20%F, 11%E			
				1						_				

23-4-0

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

REACTIONS. (size) 28=Mechanical, 27=0-3-8, 16=0-3-8

Max Uplift 28=-757(LC 4)

Max Grav 27=1957(LC 1), 16=720(LC 4)

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

 $2-3=0/2592,\ 3-4=0/2592,\ 4-5=0/266,\ 5-6=-1328/0,\ 6-7=-1328/0,\ 7-8=-2750/0,$ 8-9=-2750/0, 9-11=-2920/0, 11-12=-2443/0, 12-13=-2443/0, 13-14=-1510/0 BOT CHORD 27-28=-1280/0, 26-27=-1147/0, 24-26=0/638, 22-24=0/2033, 21-22=0/2750,

20-21=0/2750, 18-20=0/2815, 17-18=0/2077, 16-17=0/903

WEBS 2-28=0/1497, 2-27=-1656/0, 4-27=-1724/0, 4-26=0/1187, 5-26=-1125/0, 5-24=0/882,

7-24=-896/0, 7-22=0/969, 8-22=-260/0, 14-16=-1131/0, 14-17=0/790, 13-17=-739/0,

13-18=0/466, 11-18=-476/0, 11-20=0/259, 9-20=-209/412, 9-21=-382/6

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 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 100 lb uplift at joint(s) except (jt=lb) 28=757.
- 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.



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Lot 166 Duncans Creek 162601241 Floor 2F12 J0124-0332 8 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 18 05:09:26 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 1-5-13 1 3x4 || 2 3x4 = 3 4 1.5x3 || Scale = 1:8.5 9 3x4 || 8 3x6 =1.5x3 ||

3-9-14

3x6 =

Structural wood sheathing directly applied or 3-9-14 oc purlins,

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

except end verticals.

Plate Offsets	(X,Y)	[1:Eage,0-1-8]										
LOADING (p	sf)	SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40	0.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	0.00	7	>999	480	MT20	244/190
TCDL 10	.0	Lumber DOL	1.00	BC	0.06	Vert(CT)	-0.01	6-7	>999	360		
BCLL (0.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.00	6	n/a	n/a		
BCDL 5	5.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 24 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 7=Mechanical, 6=0-3-8 Max Grav 7=140(LC 1), 6=2168(LC 1)

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

WEBS 3-6=-2047/0

NOTES-

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
- 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.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 5-7=-8. 1-4=-80 Concentrated Loads (lb) Vert: 3=-2000





Job Truss Truss Type Qty Lot 166 Duncans Creek 162601242 Floor 2F13 J0124-0332 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 18 05:09:26 2023 Page 1

Fayetteville, NC - 28314, Comtech, Inc,

ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Structural wood sheathing directly applied or 3-5-14 oc purlins,

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

except end verticals.

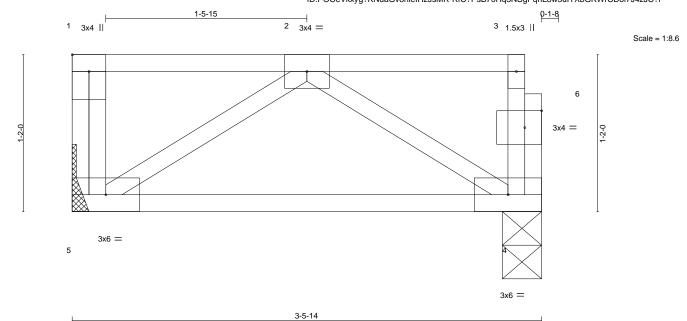


Plate Offsets (X,Y)--[1:Edge,0-1-8], [6:0-1-8,0-1-8] LOADING (psf) SPACING-DEFL. **PLATES** GRIP CSI. in (loc) I/defI L/d Plate Grip DOL 244/190 **TCLL** 40.0 1.00 TC 0.09 Vert(LL) 0.00 5 480 MT20 TCDL 10.0 Lumber DOL 1.00 ВС 0.08 Vert(CT) -0.01 4-5 >999 360 **BCLL** 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 n/a n/a **BCDL** Code IRC2015/TPI2014 FT = 20%F, 11%E 5.0 Matrix-P Weight: 21 lb

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

> (size) 5=Mechanical, 4=0-3-8 Max Grav 5=142(LC 1), 4=137(LC 1)

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

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Refer to girder(s) for truss to truss connections.
- 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.
- 4) CAUTION, Do not erect truss backwards.



December 18,2023



818 Soundside Road Edenton, NC 27932

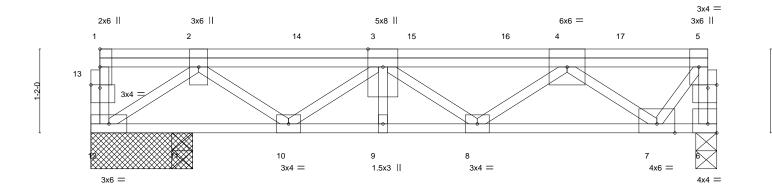
Job Truss Truss Type Qty Ply Lot 166 Duncans Creek 162601243 J0124-0332 2F14-GR FLOOR GIRDER Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 18 05:09:27 2023 Page 1 ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







1-1-8 Plate Offsets (X,Y)--[5:0-1-8,0-0-8], [6:Edge,0-1-8], [13:0-1-8,0-0-8] LOADING (psf) SPACING-CSI DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL 40.0 Plate Grip DOL 1.00 TC 0.47 Vert(LL) -0.03 9 >999 480 244/190 MT20 TCDL 10.0 Lumber DOL 1.00 BC 0.44 Vert(CT) -0.049 >999 360 **BCLL** 0.0 Rep Stress Incr NO WB 0.60 Horz(CT) 0.01 6 n/a n/a Code IRC2015/TPI2014 FT = 20%F, 11%E **BCDL** 5.0 Matrix-P Weight: 59 lb

BRACING-

LUMBER-

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

TOP CHORD

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

except end verticals. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

10-0-0 oc bracing: 6-7.

REACTIONS. (size) 6=0-3-8, 12=1-5-0, 11=0-3-8

Max Uplift 6=-944(LC 9), 12=-29(LC 9), 11=-12(LC 9) Max Grav 6=581(LC 4), 12=705(LC 1), 11=68(LC 1)

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

TOP CHORD 5-6=-581/936, 2-3=-1362/425, 3-4=-1420/1175, 4-5=-388/559

BOT CHORD 11-12=-96/990, 10-11=-96/990, 9-10=-810/1796, 8-9=-810/1796, 7-8=-1548/1037 WEBS 2-12=-1213/120, 2-10=-417/483, 3-10=-551/481, 3-8=-571/0, 4-8=0/588, 4-7=-825/1259,

5-7=-937/652

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 11 except (it=lb) 6=944.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 207 lb down at 1-4-7, 229 lb down at 2-11-10, 229 lb down at 4-6-13, 174 lb down at 4-10-4, 821 lb up at 5-10-8, 229 lb down at 6-2-0, and 821 lb up at 7-5-11, and 226 lb down at 7-9-3 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 6-12=-8, 1-5=-80

Concentrated Loads (lb)

Vert: 2=-178(F) 14=-178(F) 15=-288(F=-178, B=-110) 16=13(F=-178, B=191) 17=16(F=-175, B=191)



December 18,2023



Job Truss Truss Type Qty Lot 166 Duncans Creek 162601244 Floor 2F15 J0124-0332 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 18 05:09:28 2023 Page 1 Fayetteville, NC - 28314, Comtech, Inc, ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 1-7-4 1 3x4 || 3 1.5x3 || 3x4 = Scale = 1:8.6 3x4 =1-2-0 3x6 =3x6 = Plate Offsets (X,Y)--[1:Edge,0-1-8], [6:0-1-8,0-1-8] LOADING (psf) SPACING-DEFL. L/d **PLATES** GRIP CSI. in (loc) I/defI Plate Grip DOL 244/190 TCLL 40.0 1.00 TC 0.13 Vert(LL) 0.00 5 480 MT20 TCDL 10.0 Lumber DOL 1.00 BC 0.11 Vert(CT) -0.02 4-5 >999 360

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

4

n/a

except end verticals.

n/a

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

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

LUMBER-

BCLL

BCDL

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

0.0

5.0

REACTIONS. (size) 5=Mechanical, 4=0-3-8 Max Grav 5=190(LC 1), 4=184(LC 1)

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

YES

WB

Matrix-P

0.05

1) Plates checked for a plus or minus 1 degree rotation about its center.

Rep Stress Incr

Code IRC2015/TPI2014

- 2) Refer to girder(s) for truss to truss connections.
- 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.
- 4) CAUTION, Do not erect truss backwards.



FT = 20%F, 11%E

Weight: 22 lb



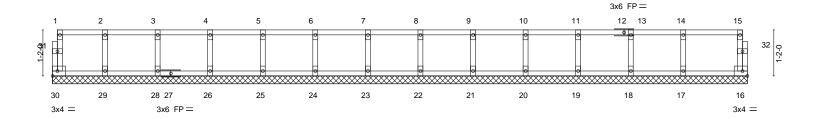
Job	Truss	Truss Type	Qty	Ply	Lot 166 Duncans Creek
10404 0000	051014	[l62601245
J0124-0332	2FKW1	Floor Supported Gable	1	1	
					Job Reference (optional)

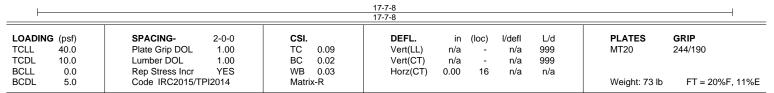
Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 18 05:09:29 2023 Page 1

0-11-8

ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-11-8 Scale = 1:29.2





LUMBER-BRACING-

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

OTHERS 2x4 SP No.3(flat) 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 17-7-8.

(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.

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.



December 18,2023



Job	Truss	Truss Type	Qty	Ply	Lot 166 Duncans Creek
10404 0000	OFIGNO	[I62601246
J0124-0332	2FKW2	Floor Supported Gable	1	1	
					Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 18 05:09:30 2023 Page 1 ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

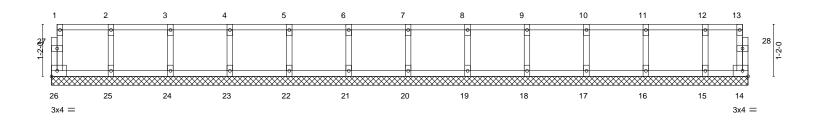
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

0₁1₈

0₁1₇8

Scale = 1:25.8



	15-7-8 15-7-8											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	14	n/a	n/a		
BCDL	5.0	Code IRC2015/TI	PI2014	Matri	x-R						Weight: 66 lb	FT = 20%F, 11%E

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

2x4 SP No.3(flat)

REACTIONS. All bearings 15-7-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

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

NOTES-

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.
- 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 Lot 166 Duncans Creek 162601247 2FKW3 J0124-0332 Floor Supported Gable Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Dec 18 05:09:31 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 4 1.5x3 || 3 1.5x3 || 1 3x4 || 2 1.5x3 || Scale = 1:8.5 10 3x4 = 9 1.5x3 || 7 6 8 3x4 II 1.5x3 II 1.5x3 II 3-9-14 3-4-6 Plate Offsets (X,Y)--[1:Edge,0-1-8], [8:Edge,0-1-8], [9:0-1-8,0-1-8] LOADING (psf) SPACING-L/d **PLATES** GRIP CSI. DEFL. in (loc) I/defI Plate Grip DOL 244/190 TCLL 40.0 1.00 TC 0.30 Vert(LL) 999 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.00 BC 0.18 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr NO WB 0.07 Horz(CT) -0.00 6 n/a n/a Code IRC2015/TPI2014 FT = 20%F, 11%E **BCDL** 5.0 Matrix-R Weight: 19 lb LUMBER-**BRACING-**TOP CHORD 2x4 SP No.1(flat) TOP CHORD Structural wood sheathing directly applied or 3-9-14 oc purlins, except end verticals.

BOT CHORD

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

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

OTHERS 2x4 SP No.3(flat)

REACTIONS. (size) 8=3-5-14, 7=3-5-14, 6=3-5-14

Max Grav 8=24(LC 1), 7=119(LC 1), 6=418(LC 1)

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

WEBS 3-6=-310/0

NOTES-

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) N/A
- 5) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
- 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.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 5-8=-10, 1-3=-100, 3-4=-280



December 18,2023

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

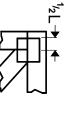
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

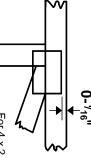


Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ from outside edge of truss.

₹

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

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

PLATE SIZE

4 × 4

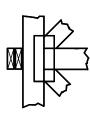
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



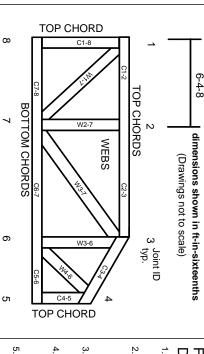
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur Min size shown is for crushing only.

Industry Standards: ANSI/TPI1: National Design Specification for Metal

DSB-22:

Plate Connected Wood Truss Construction.
Design Standard for Bracing.
Building Component Safety Information,
Guide to Good Practice for Handling,
Installing, Restraining & 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-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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

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

© 2023 MiTek® All Rights Reserved

MITOK



MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 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.
- 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.

œ

- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 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 specified.
- 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.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.