

RE: J0624-3320

Weaver/Lot 41 West Preserve/Harnett

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J0624-3320

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 8.4

Wind Code: ASCE 7-10 Wind Speed: 130 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 27 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	163260747	A1	1/26/2024	21	163260767	VB2	1/26/2024
2	163260748	A1GE	1/26/2024	22	163260768	VC1	1/26/2024
3	163260749	A2	1/26/2024	23	163260769	VC2	1/26/2024
4	163260750	A3	1/26/2024	24	163260770	VC3	1/26/2024
5	163260751	A4	1/26/2024	25	163260771	VC4	1/26/2024
6	163260752	A5	1/26/2024	26	163260772	VC5	1/26/2024
7	163260753	A5GE	1/26/2024	27	163260773	VC6	1/26/2024
8	163260754	B1	1/26/2024				
9	163260755	B1GE	1/26/2024				
10	163260756	B2	1/26/2024				
11	163260757	B3	1/26/2024				
12	163260758	B4	1/26/2024				
13	163260759	C1	1/26/2024				
14	163260760	C1GE	1/26/2024				
15	163260761	C2	1/26/2024				
16	163260762	C2GR	1/26/2024				
17	163260763	G1	1/26/2024				
18	163260764	G1GE	1/26/2024				
19	163260765	G2GR	1/26/2024				
20	163260766	VB1	1/26/2024				

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, 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.



January 26, 2024

Job Truss Truss Type Qty Weaver/Lot 41 West Preserve/Harnett 163260747 J0624-3320 Α1 **ROOF SPECIAL** 6 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Jan 25 15:38:59 2024 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:2KOcXZExhjzrAW8Zk1jzq7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 38-1-8 1-6-5 -0<sub>-</sub>10<sub>-</sub>8 0-10-8 9-6-0 26-7-0 6-1-12 7-0-13 10-0-3 10-0-3 Scale = 1:81.8 6x6 = 7.00 12 21 20 4x8 🖊 22 6x6 🗢 4x4 🖊 6 2x4 || 8 9 5 12-8-3.00 12 6x6 = 2x4 || 5-11-4 19 4x6 =012 P 0-5-B 15 14 23 24 13 25 12 26 11 10 16 4x8 =2x4 // 4x4 = 2x4 || 2x4 || 4x4 = 5x8 = 4x4 = 6x8 = 2x4 || 2x4 || 13-6-8 21-1-0 32-1-0 38-1-8 6-1-12 7-6-8 11-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES GRIP** (loc) I/defl 20.0 1.15 -0.22 11-13 360 244/190 **TCLL** Plate Grip DOL TC 0.59 Vert(LL) >999 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.52 Vert(CT) -0.32 11-13 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.64 Horz(CT) 0.03 10 n/a n/a

Wind(LL)

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

0.06 13-14

>999

except end verticals.

6-0-0 oc bracing: 2-16.

1 Row at midpt

240

Structural wood sheathing directly applied or 5-4-14 oc purlins,

7-11, 8-10

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

Weight: 304 lb

FT = 20%

LUMBER-

**BCDL** 

2x6 SP No.1 \*Except\* TOP CHORD 1-4: 2x4 SP No.1

**BOT CHORD** 2x6 SP No.1

10.0

WEBS 2x4 SP No.2

REACTIONS.

(size) 16=0-3-8, 10=0-3-8 Max Horz 16=291(LC 7)

Max Uplift 16=-192(LC 10), 10=-85(LC 10) Max Grav 16=1876(LC 1), 10=1365(LC 17)

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

Code IRC2015/TPI2014

2-3=-907/949, 3-4=-850/917, 4-16=-2504/895, 4-5=-1946/130, 5-7=-1604/330, TOP CHORD

7-8=-1025/295, 9-10=-257/395

BOT CHORD 2-16=-879/931, 14-16=-234/1755, 13-14=-263/1700, 11-13=-90/920, 10-11=-108/344 WEBS

3-16=-341/172, 8-11=0/817, 7-13=-112/1036, 5-13=-624/255, 7-11=-290/97,

8-10=-1755/547

### NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 22-2-3, Exterior(2) 22-2-3 to 30-11-13, Interior(1) 30-11-13 to 33-6-15, Exterior(2) 33-6-15 to 37-11-12 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-S

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 192 lb uplift at joint 16 and 85 lb uplift at joint 10.
- 6) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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/TP11 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)





Scale = 1:80.0 6x6 = 7.00 12 18 19 17 20 16 4x8 / 21 15 14

27-1-3

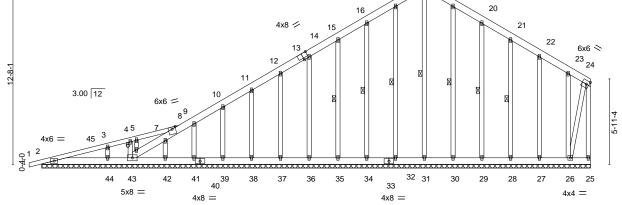


Plate Offsets (X,Y)--[13:0-4-0,Edge] **GRIP** LOADING (psf) SPACING-2-0-0 CSI DEFL. in (loc) I/defI L/d **PLATES** TCLL 20.0 Plate Grip DOL 1.15 TC 0.15 Vert(LL) -0.00 120 244/190 n/r MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.06 Vert(CT) 0.00 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.14 Horz(CT) -0.00 25 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Weight: 370 lb FT = 20%Matrix-S

BRACING-LUMBER-

13-6-8

TOP CHORD 2x6 SP No.1 \*Except\* TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, 1-8: 2x4 SP No.1 except end verticals.

**BOT CHORD** 2x6 SP No.1 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

WEBS 2x4 SP No.2 6-0-0 oc bracing: 2-44,43-44.

**OTHERS** 2x4 SP No.2 **WEBS** 18-31, 17-32, 16-34, 15-35, 19-30, 20-29, 1 Row at midpt

REACTIONS. All bearings 38-1-8.

Max Horz 2=404(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 25, 43, 31, 32, 34, 35, 36, 37, 38, 39, 41, 42, 30, 29, 28, 27

except 2=-101(LC 6), 44=-120(LC 6), 26=-181(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 2, 25, 43, 31, 32, 34, 35, 36, 37, 38, 39, 41, 42, 30, 29, 28, 27, 26 except 44=367(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 8-9=-328/262, 9-10=-286/262, 16-17=-206/282, 17-18=-236/296, 18-19=-236/283

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 22-2-3, Corner(3) 22-2-3 to 30-11-13, Exterior(2) 30-11-13 to 33-6-15, Corner(3) 33-6-15 to 37-11-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 43, 31, 32, 34, 35, 36, 37, 38, 39, 41, 42, 30, 29, 28, 27 except (jt=lb) 2=101, 44=120, 26=181.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



38-1-8 1-6-5

January 26,2024



Job Truss Truss Type Qty Weaver/Lot 41 West Preserve/Harnett 163260749 J0624-3320 A2 **ROOF SPECIAL** 3 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Jan 25 15:39:03 2024 Page 1

ID:2KOcXZExhjzrAW8Zk1jzq7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f -0-10-8 0-10-8 26-7-0 . 33-0-12 <del>3</del>9-10-0 6-1-12 7-0-13 10-0-3 6-5-12 6-9-4

> Scale = 1:78.7 6x6 =

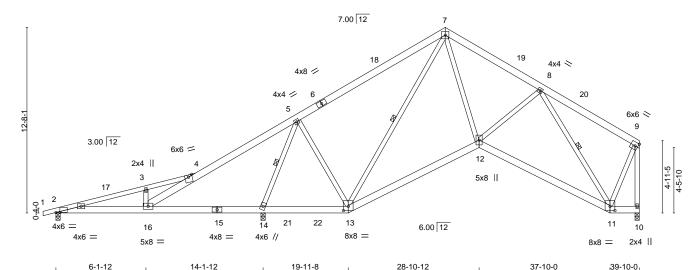


Plate Offsets (X,Y)--[2:0-3-4,0-0-3], [11:0-4-0,0-3-8], [13:0-4-0,0-3-8] **PLATES** LOADING (psf) SPACING-CSI DEFL. in (loc) I/defl L/d GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.61 Vert(LL) -0.06 12-13 >999 360 244/190 MT20 -0.14 12-13 TCDL 10.0 Lumber DOL 1.15 BC 0.26 Vert(CT) >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.76 Horz(CT) 0.04 10 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Wind(LL) 0.07 14-16 240 FT = 20%Matrix-S >999 Weight: 294 lb

LUMBER-

WEBS

2x6 SP No.1 \*Except\* TOP CHORD

1-4: 2x4 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2

BRACING-

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. **WEBS** 1 Row at midpt 5-14, 8-11, 7-13

REACTIONS. 10=0-3-8, 14=0-3-8, 2=0-3-8 (size)

6-1-12

Max Horz 2=292(LC 7)

Max Uplift 10=-66(LC 11), 14=-290(LC 10), 2=-130(LC 6) Max Grav 10=809(LC 18), 14=2251(LC 1), 2=190(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-267/453, 3-4=-220/413, 4-16=-817/980, 4-5=-995/1545, 5-7=-367/254,

7-8=-919/122. 8-9=-344/89. 9-10=-818/71

**BOT CHORD** 2-16=-374/133, 14-16=-1194/820, 13-14=-448/454, 12-13=0/676, 11-12=-50/740 **WEBS** 3-16=-348/179, 5-14=-2196/1028, 5-13=-271/797, 7-12=0/718, 8-12=-52/277,

8-11=-807/70, 9-11=0/572, 7-13=-889/292

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 22-2-3, Exterior(2) 22-2-3 to 30-11-13, Interior(1) 30-11-13 to 35-3-7, Exterior(2) 35-3-7 to 39-8-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

8-0-0

- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 14=290, 2=130.

6) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 26,2024

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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/TP11 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 Weaver/Lot 41 West Preserve/Harnett 163260750 J0624-3320 **A3 ROOF SPECIAL** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Jan 25 15:39:04 2024 Page 1 ID:2KOcXZExhjzrAW8Zk1jzq7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 33-10-0 10-9-12 9-9-4 6-5-12 6-9-4 Scale = 1:73.1 5x5 = 7.00 12 3x4 ≥ 4x6 / 5 3x6 🖊 3 4x6 > 5x8 II 0-8-0 × 16 10 6.00 12 8 4x4 = 11 8x8 = 2x4 || 8x8 = 13-11-8 33-10-0 22-10-12 31-10-0 3-1-12 8-11-4 Plate Offsets (X,Y)--[8:0-4-0,0-3-8], [10:0-4-0,0-3-8] DEFL. **PLATES GRIP** LOADING (psf) SPACING-CSI. in (loc) I/defl L/d TCLL 20.0 Plate Grip DOL 1.15 TC 0.54 Vert(LL) -0.08 1-11 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.37 Vert(CT) -0.18 1-11 >730 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.83 Horz(CT) 0.06 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Wind(LL) >999 240 Weight: 263 lb Matrix-S 0.03 1-11 **BRACING-**

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

REACTIONS.

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1

WEBS 2x4 SP No.2

> (size) 1=Mechanical, 7=0-3-8, 11=0-3-8 Max Horz 1=287(LC 7)

Max Uplift 7=-68(LC 11), 11=-193(LC 10) Max Grav 1=380(LC 21), 7=879(LC 1), 11=1600(LC 17)

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

TOP CHORD 2-4=-446/253, 4-5=-975/322, 5-6=-353/136, 6-7=-887/191

**BOT CHORD** 9-10=-14/641, 8-9=-173/815

WFBS 4-9=-87/773, 5-8=-901/224, 6-8=-51/620, 4-10=-680/37, 2-10=0/407, 2-11=-1207/443

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-4 to 4-6-1, Interior(1) 4-6-1 to 16-2-3, Exterior(2) 16-2-3 to 24-11-13, Interior(1) 24-11-13 to 29-3-7, Exterior(2) 29-3-7 to 33-8-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 11=193.



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

5-8, 4-10

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

except end verticals.

1 Row at midpt

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Job Truss Truss Type Qty Weaver/Lot 41 West Preserve/Harnett 163260751 J0624-3320 A4 **ROOF SPECIAL** 3 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Jan 25 15:39:05 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:2KOcXZExhjzrAW8Zk1jzq7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 27-0-12 6-5-12 33-10-0 10-9-12 10-9-12 Scale = 1:73.2 6x6 = 7.00 12 3x4 ≥ 4x6 / 5 3x6 // 3 15 4x6 <> 5x8 || 0-8-0 16 6.00 12 8 4x4 = 11 10 8x8 =2x4 || 2x4 || 13-8-0 13-11-8 2-10-4 0-3-8 10-9-12 22-10-12 31-10-0 33-10-0 10-9-12 8-11-4 8-11-4 2-0-0 Plate Offsets (X,Y)--[8:0-4-0,0-3-8], [10:0-4-0,0-3-8] DEFL. **PLATES GRIP** LOADING (psf) SPACING-CSI. in (loc) I/def L/d TCLL 20.0 Plate Grip DOL 1.15 TC 0.52 Vert(LL) -0.09 1-11 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.34 Vert(CT) -0.19 1-11 >860 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.94 Horz(CT) 0.05 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Wind(LL) >999 240 Weight: 263 lb Matrix-S 0.04 1-11

**BRACING-**

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1

WEBS 2x4 SP No.2

REACTIONS. (size) 1=Mechanical, 10=0-3-8, 7=0-3-8 Max Horz 1=287(LC 7)

Max Uplift 10=-209(LC 10), 7=-55(LC 11)

Max Grav 1=444(LC 21), 10=1692(LC 17), 7=683(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-319/92, 2-4=-15/431, 4-5=-590/215, 5-6=-277/115, 6-7=-694/136 **BOT CHORD** 1-11=-132/263, 10-11=-132/263, 9-10=-23/318, 8-9=-107/576

4-9=-45/621, 5-8=-598/139, 6-8=-4/454, 4-10=-1040/138, 2-10=-1080/345, 2-11=0/509 WFBS

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-4 to 4-6-1, Interior(1) 4-6-1 to 16-2-3, Exterior(2) 16-2-3 to 24-11-13, Interior(1) 24-11-13 to 29-3-7, Exterior(2) 29-3-7 to 33-8-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 10=209.



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

5-8, 4-10

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

except end verticals.

1 Row at midpt

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

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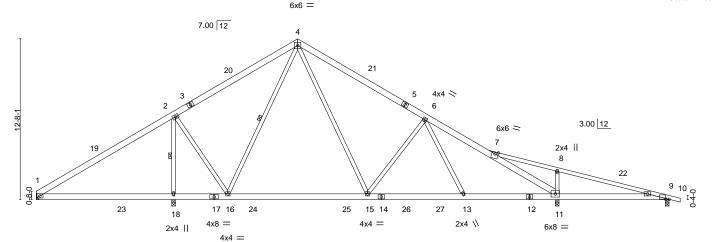
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 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 Weaver/Lot 41 West Preserve/Harnett 163260752 J0624-3320 A5 **ROOF SPECIAL** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Jan 25 15:39:06 2024 Page 1

ID:2KOcXZExhjzrAW8Zk1jzq7zrqGJ-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f 49-10-0 30-7-3 41-0-4 5Q-8<sub>1</sub>8 10-0-3 5-0-13 5-4-4 8-9-12 0-10-8

Scale = 1:90.7



	10-9-12	4-3-4	11-0-0	-	7-6-8	7-4-12	8-9-12	
Plate Offsets (X,	<u></u>							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.74	Vert(LL)	-0.22 15-16	>999 360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.53	Vert(CT)	-0.33 15-16	>999 240		
BCLL 0.0	<ul> <li>Rep Stress Incr</li> </ul>	YES	WB 0.65	Horz(CT)	0.03 11	n/a n/a		
BCDL 10.0	Code IRC2015/TP	12014	Matrix-S	Wind(LL)	0.08 9-11	>999 240	Weight: 333 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 \*Except\*

7-10: 2x4 SP No.1

**BOT CHORD** 2x6 SP No.1 WEBS 2x4 SP No.2 BRACING-TOP CHORD

WEBS

**BOT CHORD** 

Structural wood sheathing directly applied or 5-7-10 oc purlins.

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

2-18, 4-16 1 Row at midpt

REACTIONS. All bearings 0-3-8 except (jt=length) 1=Mechanical.

10-9-12

Max Horz 1=-297(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 18=-163(LC 10), 11=-235(LC 11), 9=-130(LC 7) Max Grav All reactions 250 lb or less at joint(s) except 1=389(LC 21), 18=2071(LC 17), 11=1687(LC 1),

20-7-0

9-9-4

9=293(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-756/332, 4-6=-1451/415, 6-7=-1743/284, 7-11=-1921/296, 8-9=-186/259

**BOT CHORD** 15-16=0/755, 13-15=-102/1477, 11-13=-51/1543

2-18=-1714/413, 2-16=0/930, 4-16=-510/54, 4-15=-140/1068, 6-15=-630/271, **WEBS** 

6-13=0/253, 8-11=-496/244

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-4 to 5-1-1, Interior(1) 5-1-1 to 15-7-3, Exterior(2) 15-7-3 to 25-6-13, Interior(1) 25-6-13 to 45-8-11, Exterior(2) 45-8-11 to 50-8-8 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 4x6 MT20 unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 18=163. 11=235. 9=130.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





Job Truss Truss Type Qty Weaver/Lot 41 West Preserve/Harnett 163260753 J0624-3320 A5GE **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Jan 25 15:39:09 2024 Page 1 Comtech, Inc. ID:2KOcXZExhjzrAW8Zk1jzq7zrqGJ-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f 44-0<sub>7</sub>8 0-10-8 29-0-0 34-6-0 43-2-0 13-11-0 15-1-0 5-6-0 8-8-0 6x6 = Scale = 1:84.0 7.00 12 9 10 11 53 ' 54 4x8 / 12 6 4x8 <> 13 3 52 14 15 6x6 / 16

> 47 30 32 5x8 = 4x8 = 4x8 = 6x8 = 4-0-0 43-2-0

40

38 37

36

35

Plate Off	Plate Offsets (X,Y) [4:0-4-0,Edge], [14:0-4-0,Edge], [32:0-4-0,0-1-4]											
LOADIN	4 /	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	0.01	28	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	0.01	28	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	27	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI:	2014	Matri	x-S						Weight: 405 lb	FT = 20%

LUMBER-**BRACING-**

46 45

44

43

42 41

TOP CHORD 2x6 SP No.1 \*Except\*

49

48

18-28: 2x4 SP No.1 **BOT CHORD** 2x6 SP No.1

51 50

WEBS 2x4 SP No.2

4-6-10

**OTHERS** 2x4 SP No.2 TOP CHORD

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

3.00 12

26

29

55

4x6 =

27

25

31 30

except end verticals.

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

6x6 = 17 18 19 20

34

10-0-0 oc bracing: 50-51,30-31,29-30,27-29. 9-43, 8-44, 7-45, 6-46, 10-42, 11-41, 12-40 1 Row at midpt

**WEBS** 

**JOINTS** 1 Brace at Jt(s): 21

REACTIONS. All bearings 39-2-0.

Max Horz 49=-370(LC 6) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 44, 45, 46, 48, 42, 41, 40, 38, 37, 36, 35, 34 except 27=-106(LC

7), 49=-211(LC 10), 33=-125(LC 7), 30=-102(LC 7), 29=-163(LC 11)

All reactions 250 lb or less at joint(s) 27, 44, 45, 46, 48, 42, 41, 40, 38, 37, 36, 35, 34, 30 except Max Grav

43=293(LC 19), 49=484(LC 17), 33=300(LC 22), 29=408(LC 1)

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

7-8=-209/315, 8-9=-238/351, 9-10=-238/363, 10-11=-209/355, 11-12=-154/313,

12-13=-172/276, 13-15=-189/257, 15-16=-208/270, 16-17=-243/296, 17-18=-274/296,

19-21=-269/166

**BOT CHORD** 48-49=-149/375, 46-48=-149/375, 45-46=-149/375, 44-45=-149/375, 43-44=-149/375, 42-43=-149/375, 41-42=-149/375, 40-41=-149/375, 38-40=-149/375, 37-38=-149/375,

36-37=-149/375, 35-36=-149/375, 34-35=-149/375, 33-34=-149/375, 31-33=-142/368

**WEBS** 9-43=-253/83, 3-49=-257/148, 26-29=-282/177

### NOTES-

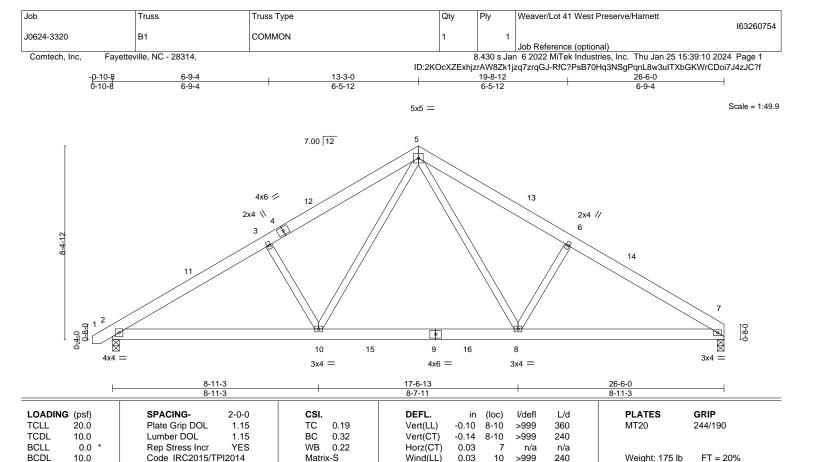
1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 9-6-3, Exterior(2) 9-6-3 to 18-3-13, Interior(1) 18-3-13 to 39-7-11, Exterior(2) 39-7-11 to 44-0-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Bearing at joint(s) 27 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 44, 45, 46, 48, 42, 41, 40, 38, 37, 36, 35, 34 except (jt=lb) 27=106, 49=211, 33=125, 30=102, 29=163.
- 10) Non Standard bearing condition. Review required.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

January 26,2024

Edenton, NC 27932

MARNING - 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/TP11 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)



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1

WEBS 2x4 SP No.2

> 7=0-3-8, 2=0-3-8 (size) Max Horz 2=193(LC 7)

Max Uplift 7=-85(LC 11), 2=-97(LC 10) Max Grav 7=1075(LC 18), 2=1124(LC 17)

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

TOP CHORD 2-3=-1686/416, 3-5=-1525/463, 5-6=-1529/470, 6-7=-1672/422

2-10=-252/1492, 8-10=-60/971, 7-8=-262/1355 **BOT CHORD** 

WEBS 5-8=-156/714, 6-8=-409/259, 5-10=-147/710, 3-10=-408/247

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-8 to 3-8-5, Interior(1) 3-8-5 to 8-10-3, Exterior(2) 8-10-3 to 17-7-13, Interior(1) 17-7-13 to 21-11-7, Exterior(2) 21-11-7 to 26-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.



Structural wood sheathing directly applied or 5-11-3 oc purlins.

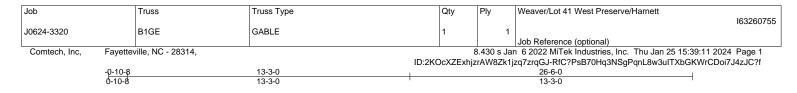
Rigid ceiling directly applied or 10-0-0 oc bracing.



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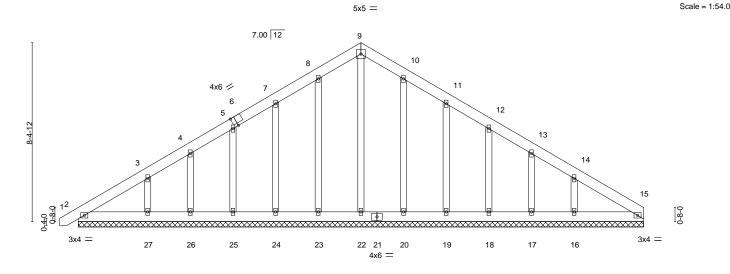


Plate Offsets (X,Y)	[6:0-2-3,Edge]			
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.04	<b>DEFL.</b> in (loc) I/defl L/d Vert(LL) -0.00 1 n/r 120	PLATES GRIP MT20 244/190
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.03 WB 0.14	Vert(CT) 0.00 1 n/r 120 Horz(CT) 0.00 15 n/a n/a	W1120 244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 207 lb FT = 20%

26-6-0

LUMBER-**BRACING-**

2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. TOP CHORD 2x6 SP No.1 **BOT CHORD BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.2

REACTIONS. All bearings 26-6-0.

(lb) -Max Horz 2=242(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 2, 23, 24, 25, 26, 20, 19, 18, 17 except 27=-141(LC 10),

16=-143(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 15, 2, 22, 23, 24, 25, 26, 20, 19, 18, 17 except 27=282(LC

17), 16=288(LC 18)

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-8 to 3-8-5, Exterior(2) 3-8-5 to 8-10-3, Corner(3) 8-10-3 to 17-7-13, Exterior(2) 17-7-13 to 22-1-3, Corner(3) 22-1-3 to 26-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 23, 24, 25, 26, 20, 19, 18, 17 except (it=lb) 27=141, 16=143.



January 26,2024



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 Weaver/Lot 41 West Preserve/Harnett 163260756 J0624-3320 B2 COMMON 3 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Jan 25 15:39:13 2024 Page 1

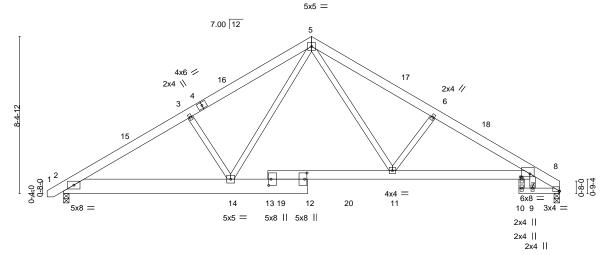
26-6-0

Structural wood sheathing directly applied or 2-2-0 oc purlins.

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

ID:2KOcXZExhjzrAW8Zk1jzq7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 19-8-12 6-5-12 0-10-8 13-3-0 6-5-12

Scale = 1:61.6



	8-11-3	13-0-8	17-6-13	24-4-0	24-11 <sub>r</sub> 0	
	8-11-3	4-1-5	4-6-5	6-9-3	0-7-0 1-7-0 <sup>1</sup>	
Plate Offsets (X,Y)	[7:0-1-8,0-1-0], [7:0-5-4,0-1-15], [8:0-0-4	,0-0-5], [12:0-4-0,0-1-8], [13:	:0-4-0,0-1-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in	(loc) I/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.90	Vert(LL) -0.13	10 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.56	Vert(CT) -0.27	10 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.23	Horz(CT) 0.18	8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.10	10 >999 240	Weight: 199 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SP No.1

**BOT CHORD** 2x6 SP No.1 \*Except\*

2-12: 2x10 SP No.1, 8-10: 2x4 SP No.1

WEBS 2x4 SP No.2

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

Max Horz 2=196(LC 9)

Max Uplift 8=-79(LC 11), 2=-97(LC 10) Max Grav 8=1076(LC 18), 2=1111(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-1726/417, 3-5=-1560/458, 5-6=-1785/502, 6-7=-1966/485, 7-8=-736/185 TOP CHORD

**BOT CHORD** 2-14=-247/1535, 11-14=-67/1027, 7-11=-322/1721

**WEBS** 5-11=-191/977, 6-11=-600/281, 5-14=-129/647, 3-14=-411/245

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-8 to 3-8-5, Interior(1) 3-8-5 to 8-10-3, Exterior(2) 8-10-3 to 17-7-13, Interior(1) 17-7-13 to 21-11-7, Exterior(2) 21-11-7 to 26-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.





Job Truss Truss Type Qty Weaver/Lot 41 West Preserve/Harnett 163260757 J0624-3320 **B**3 COMMON 3 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

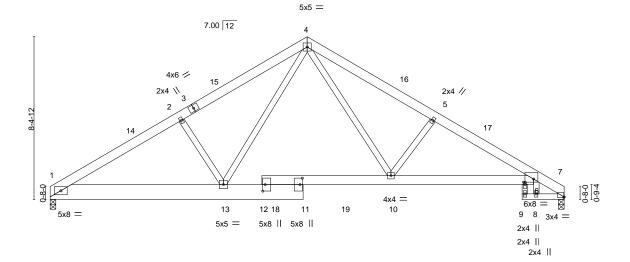
8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Jan 25 15:39:14 2024 Page 1 ID:2KOcXZExhjzrAW8Zk1jzq7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Structural wood sheathing directly applied or 2-2-0 oc purlins.

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

19-8-12 6-5-12

Scale = 1:59.4



											26-6-0	
			3-11-3		13-0-8	17-6-13				-4-0	24-11 <sub>r</sub> 0	
		<u>'</u>	3-11-3	'	4-1-5	4-6-5		1	6-	9-3	0-7-0 1-7-0 <sup>1</sup>	
Plate Offse	ets (X,Y)	[6:0-1-8,0-1-0], [6:0-5-4,0	)-1-15], [7:0-0-	4,0-0-5], [11:	0-4-0,0-1-8],	[12:0-4-0,0-1-8]						
OADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
CLL	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.13	9	>999	360	MT20	244/190
CDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.27	9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.18	7	n/a	n/a		
RCDI	10.0	Code IRC2015/T	PI2014	Matri	x-S	Wind(LL)	0.10	q	>999	240	Weight: 197 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SP No.1

**BOT CHORD** 2x6 SP No.1 \*Except\*

1-11: 2x10 SP No.1, 7-9: 2x4 SP No.1

WEBS 2x4 SP No.2

REACTIONS. (size) 7=0-3-8, 1=0-3-8

Max Horz 1=-191(LC 6)

Max Uplift 7=-79(LC 11), 1=-85(LC 10) Max Grav 7=1077(LC 18), 1=1063(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-1730/429, 2-4=-1564/469, 4-5=-1787/507, 5-6=-1968/491, 6-7=-736/186

**BOT CHORD** 1-13=-263/1544, 10-13=-71/1028, 6-10=-327/1722 WEBS

4-10=-194/979, 5-10=-600/282, 4-13=-139/651, 2-13=-422/261

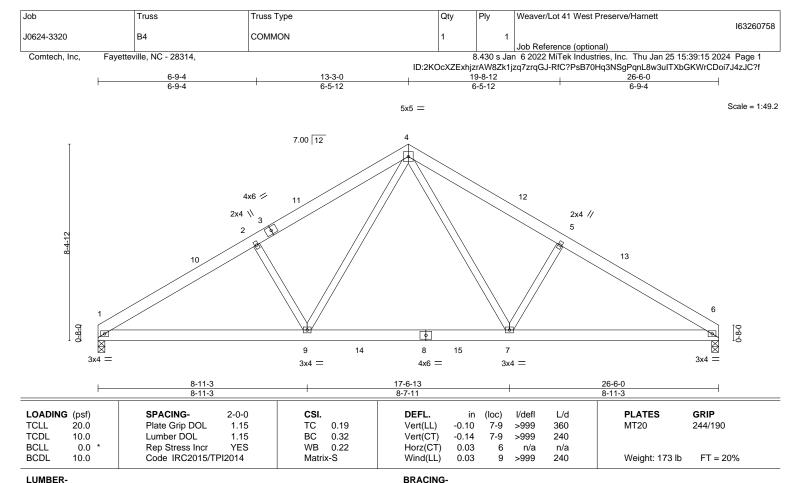
### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 8-10-3, Exterior(2) 8-10-3 to 17-7-13, Interior(1) 17-7-13 to 21-11-7, Exterior(2) 21-11-7 to 26-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 1.



January 26,2024





TOP CHORD

BOT CHORD

LUMBER-

WEBS

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 2x4 SP No.2

REACTIONS.

(size) 6=0-3-8, 1=0-3-8 Max Horz 1=189(LC 7) Max Uplift 6=-85(LC 11), 1=-85(LC 10) Max Grav 6=1075(LC 18), 1=1075(LC 17)

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

TOP CHORD 1-2=-1673/426, 2-4=-1529/474, 4-5=-1530/474, 5-6=-1673/426

**BOT CHORD** 1-9=-265/1498, 7-9=-64/972, 6-7=-265/1356

WEBS 4-7=-157/714, 5-7=-409/259, 4-9=-157/714, 2-9=-409/259

### NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 8-10-3, Exterior(2) 8-10-3 to 17-7-13, Interior(1) 17-7-13 to 21-11-7, Exterior(2) 21-11-7 to 26-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 1.



Structural wood sheathing directly applied or 5-11-4 oc purlins.

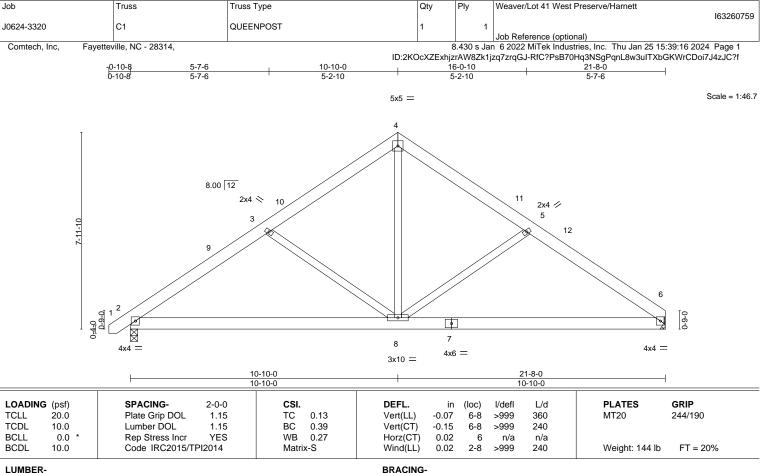
Rigid ceiling directly applied or 10-0-0 oc bracing.

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)





TOP CHORD

BOT CHORD

Weaver/Lot 41 West Preserve/Harnett

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

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

LUMBER-TOP CHORD

Job

Truss

2x6 SP No.1 BOT CHORD 2x6 SP No.1

WEBS 2x4 SP No.2

REACTIONS. (size)

6=Mechanical, 2=0-3-8 Max Horz 2=183(LC 7) Max Uplift 6=-66(LC 11), 2=-78(LC 10) Max Grav 6=856(LC 1), 2=909(LC 1)

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

2-3=-1152/344, 3-4=-893/301, 4-5=-893/302, 5-6=-1156/350 TOP CHORD

**BOT CHORD** 2-8=-179/918, 6-8=-192/893

WEBS 3-8=-363/232, 4-8=-160/681, 5-8=-367/248

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-9 to 3-8-4, Interior(1) 3-8-4 to 6-5-3, Exterior(2) 6-5-3 to 15-2-13, Interior(1) 15-2-13 to 17-1-15, Exterior(2) 17-1-15 to 21-6-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.



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

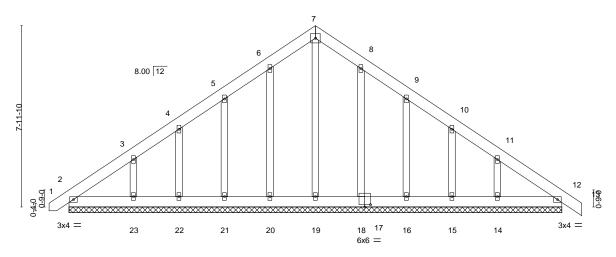
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 Weaver/Lot 41 West Preserve/Harnett 163260760 J0624-3320 C1GE **GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Jan 25 15:39:18 2024 Page 1

ID:2KOcXZExhjzrAW8Zk1jzq7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 22-6-8 0-10-8 -0-10-8 0-10-8 10-10-0 10-10-0

> Scale = 1:50.6 5x5 =



21-8-0 Plate Offsets (X V)-- [17:0-3-0 0-1-4]

Tiale Offset	(X, I)	[17.0-3-0,0-1-4]									_	
LOADING (	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	0.00	12	n/r	120	MT20	244/190
TCDL <sup>*</sup>	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	12	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	12	n/a	n/a		
BCDL '	10.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 172 lb	FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. 2x6 SP No.1 **BOT CHORD BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.2

REACTIONS. All bearings 21-8-0.

(lb) -Max Horz 2=-233(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 12, 2, 20, 22, 18, 15 except 21=-101(LC 10), 23=-146(LC 10),

16=-103(LC 11), 14=-140(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 12, 2, 19, 20, 21, 22, 18, 16, 15, 14 except 23=255(LC 17)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-9 to 3-8-4, Exterior(2) 3-8-4 to 6-5-3, Corner(3) 6-5-3 to 15-2-13, Exterior(2) 15-2-13 to 18-1-11, Corner(3) 18-1-11 to 22-6-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 2, 20, 22, 18, 15 except (jt=lb) 21=101, 23=146, 16=103, 14=140.

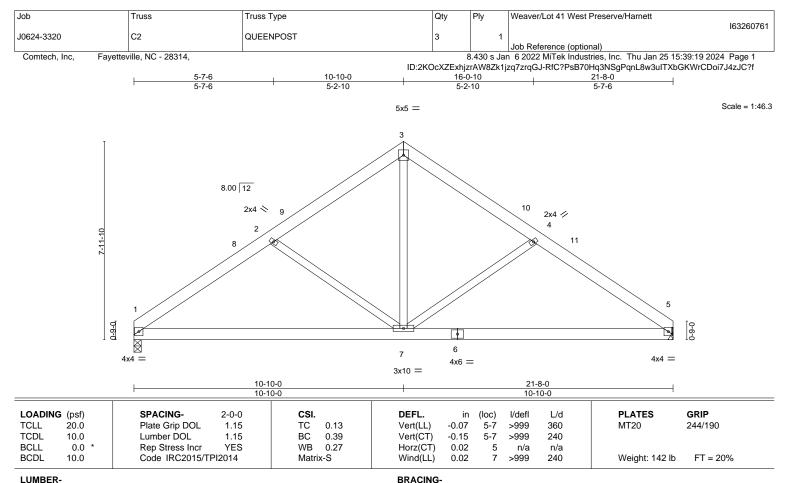


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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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)





TOP CHORD

BOT CHORD

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2

REACTIONS.

5=Mechanical, 1=0-3-8 (size) Max Horz 1=-179(LC 6) Max Uplift 5=-66(LC 11), 1=-66(LC 10) Max Grav 5=857(LC 1), 1=857(LC 1)

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

1-2=-1155/354, 2-3=-893/307, 3-4=-893/307, 4-5=-1158/355 TOP CHORD

**BOT CHORD** 1-7=-194/922, 5-7=-195/895

WEBS 2-7=-361/247, 3-7=-167/680, 4-7=-367/248

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 6-5-3, Exterior(2) 6-5-3 to 15-2-13, Interior(1) 15-2-13 to 17-1-15, Exterior(2) 17-1-15 to 21-6-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 1.



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

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



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Job Truss Truss Type Qty Ply Weaver/Lot 41 West Preserve/Harnett 163260762 J0624-3320 C2GR FINK Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Jan 25 15:39:21 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:2KOcXZExhjzrAW8Zk1jzq7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 10-10-0 15-9-13 21-8-0 5-10-3 4-11-13 4-11-13 5-10-3 Scale = 1:47.0 5x5 =

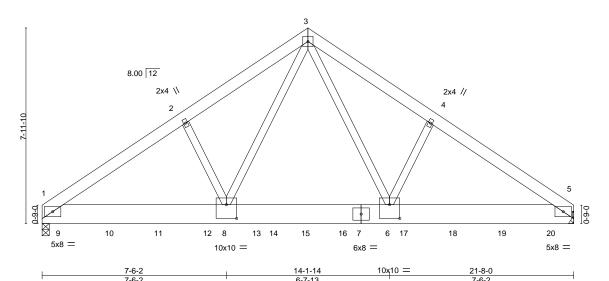


Plate Off	sets (X,Y)	[6:0-5-0,0-6-12], [8:0-5-0,0	)-6-12]			0.10						
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.Ó	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	-0.04	`1-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.07	1-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	2014	Matri	x-S	Wind(LL)	0.02	6-8	>999	240	Weight: 361 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

6-7-13

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x10 SP No.1 WEBS 2x4 SP No.2

REACTIONS. (size) 1=0-3-8, 5=Mechanical Max Horz 1=-175(LC 25) Max Uplift 5=-146(LC 9)

Max Grav 1=3031(LC 1), 5=2904(LC 1)

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

1-2=-3741/0, 2-3=-3604/42, 3-4=-3556/233, 4-5=-3691/168 TOP CHORD

**BOT CHORD** 1-8=0/3014, 6-8=0/2096, 5-6=-75/2979

WFBS 2-8=-303/209, 3-8=0/2016, 3-6=-269/1918, 4-6=-308/206

### NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=146.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 364 lb down at 0-8-12, 424 lb down at 2-8-12, 424 lb down at 4-8-12, 424 lb down at 6-8-12, 369 lb down and 41 lb up at 8-8-12, 369 lb down and 41 lb up at 10-8-12, 369 lb down and 41 lb up at 12-8-12, 369 lb down and 41 lb up at 14-8-12, 369 lb down and 41 lb up at 16-8-12, and 369 lb down and 41 lb up at 18-8-12, and 371 lb down and 39 lb up at 20-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

## January 26,2024

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

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

Continued on page 2

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Job Truss Truss Type Qty Ply Weaver/Lot 41 West Preserve/Harnett 163260762 FINK J0624-3320 C2GR

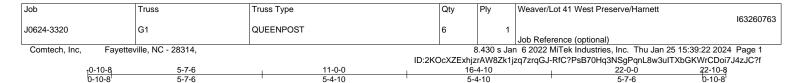
Comtech, Inc, Fayetteville, NC - 28314,

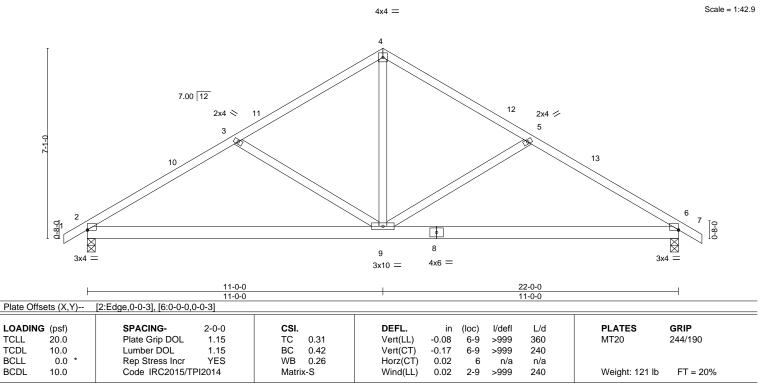
2 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Jan 25 15:39:21 2024 Page 2 ID:2KOcXZExhjzrAW8Zk1jzq7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

Vert: 7=-369(B) 9=-364(B) 10=-424(B) 11=-424(B) 12=-424(B) 13=-369(B) 15=-369(B) 17=-369(B) 18=-369(B) 19=-369(B) 20=-371(B)







BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2

REACTIONS. (size) 6=0-3-8, 2=0-3-8 Max Horz 2=-166(LC 8)

Max Uplift 6=-85(LC 11), 2=-85(LC 10) Max Grav 6=930(LC 1), 2=930(LC 1)

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

2-3=-1270/363, 3-4=-965/295, 4-5=-965/295, 5-6=-1270/363 TOP CHORD

**BOT CHORD** 2-9=-201/1022, 6-9=-201/1003

WFBS 3-9=-360/226, 4-9=-121/663, 5-9=-360/226

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 6-7-3, Exterior(2) 6-7-3 to 15-4-13, Interior(1) 15-4-13 to 18-5-11, Exterior(2) 18-5-11 to 22-10-8 zone:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.



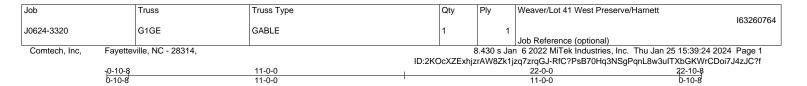
Structural wood sheathing directly applied or 5-3-13 oc purlins.

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

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

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4x4 =

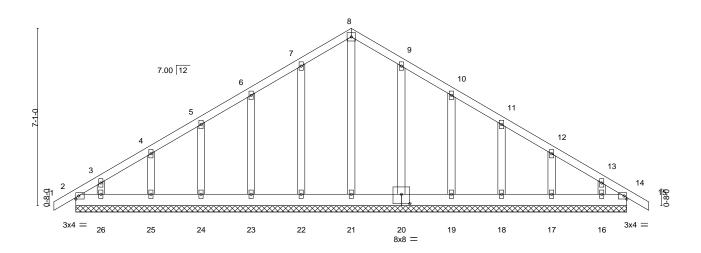


Plate Offsets (X,Y)	[20:0-4-0,0-4-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0 TCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.04 BC 0.02	Vert(LL) -0.00 14 n/r 120 Vert(CT) -0.00 15 n/r 120	MT20 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.09 Matrix-S	Horz(CT) 0.00 14 n/a n/a	Weight: 145 lb FT = 20%

22-0-0 22-0-0

LUMBER-BRACING-

TOP CHORD 2x4 SP No.1 2x6 SP No.1 **BOT CHORD OTHERS** 2x4 SP No.2

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

REACTIONS. All bearings 22-0-0. (lb) -Max Horz 2=-208(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 14, 2, 22, 23, 24, 25, 20, 19, 18, 17, 16 except 26=-101(LC 10)

Max Grav All reactions 250 lb or less at joint(s) 14, 2, 21, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16

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

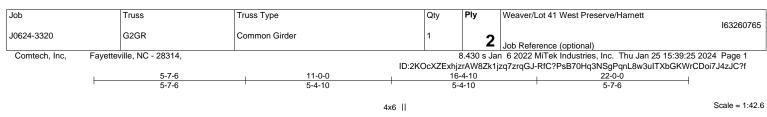
### NOTES-

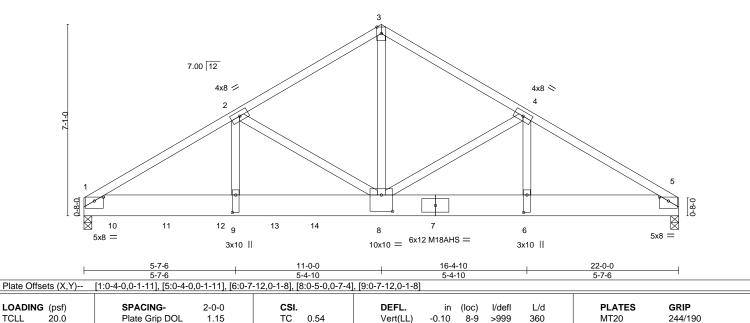
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 6-7-3, Corner(3) 6-7-3 to 15-4-13, Exterior(2) 15-4-13 to 18-5-11, Corner(3) 18-5-11 to 22-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 2, 22, 23, 24, 25, 20, 19, 18, 17, 16 except (jt=lb) 26=101.



Scale = 1:46.0







Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

**BOT CHORD** 

-0.18

0.03

0.06

8-9

8-9

5

>999

>999

n/a

240

n/a

240

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

Structural wood sheathing directly applied or 4-3-9 oc purlins.

M18AHS

Weight: 320 lb

186/179

FT = 20%

LUMBER-

TCLL

TCDL

**BCLL** 

**BCDL** 

TOP CHORD 2x4 SP No.1 BOT CHORD 2x10 SP No.1 2x4 SP No.2 **WEBS** 

10.0

10.0

0.0

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

Max Horz 1=157(LC 24)

Max Uplift 1=-414(LC 8), 5=-186(LC 9) Max Grav 1=5379(LC 1), 5=2588(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-8009/587, 2-3=-4509/365, 3-4=-4511/366, 4-5=-4372/316 **BOT CHORD**  $1\hbox{-}9\hbox{--}512/6743,\ 8\hbox{-}9\hbox{--}512/6743,\ 6\hbox{-}8\hbox{--}204/3650,\ 5\hbox{-}6\hbox{--}204/3650}$ 

WFBS 3-8=-277/4152, 4-8=-417/431, 4-6=-428/130, 2-8=-3471/370, 2-9=-211/3449

1.15

NO

### NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-3-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

BC

WB

Matrix-S

0.93

0.52

- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=414, 5=186,
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 836 lb down and 85 lb up at 1-0-12, 837 lb down and 86 lb up at 3-0-12, 837 lb down and 86 lb up at 5-0-12, and 837 lb down and 86 lb up at 7-0-12, and 2884 lb down and 166 lb up at 8-6-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 1-5=-20



Continued on page 2

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

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Job Truss Truss Type Qty Ply Weaver/Lot 41 West Preserve/Harnett 163260765 J0624-3320 G2GR Common Girder

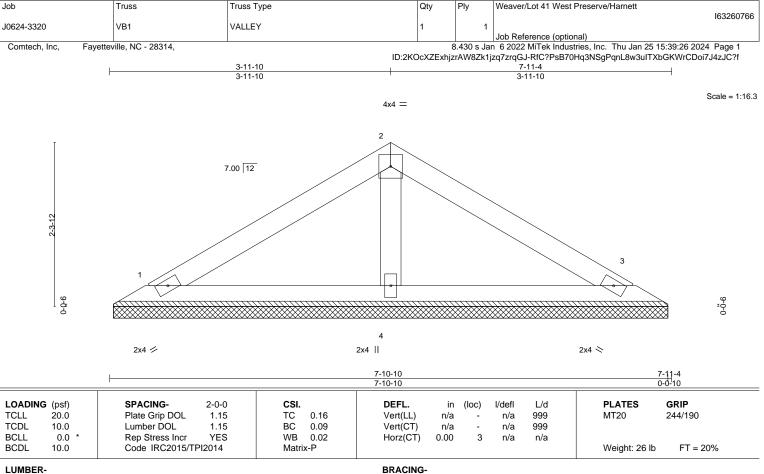
Comtech, Inc, Fayetteville, NC - 28314, Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Jan 25 15:39:25 2024 Page 2
ID:2KOcXZExhjzrAW8Zk1jzq7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 10=-836(B) 11=-837(B) 12=-837(B) 13=-837(B) 14=-2884(B)





TOP CHORD

BOT CHORD

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1

**OTHERS** 2x4 SP No.2

REACTIONS. 1=7-10-0, 3=7-10-0, 4=7-10-0 (size) Max Horz 1=48(LC 9)

Max Uplift 1=-25(LC 10), 3=-30(LC 11)

Max Grav 1=143(LC 1), 3=143(LC 1), 4=258(LC 1)

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

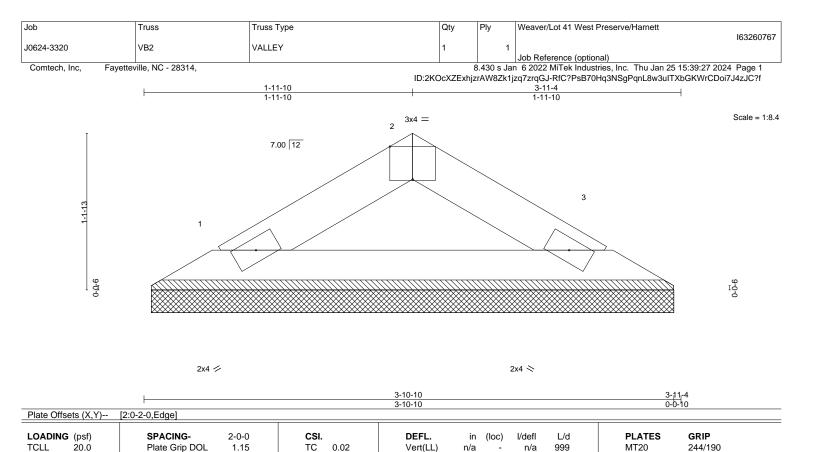
Rigid ceiling directly applied or 10-0-0 oc bracing.

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LUMBER-

TCDL

**BCLL** 

**BCDL** 

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1

10.0

0.0

10.0

**BRACING-**

Vert(CT)

Horz(CT)

n/a

0.00

n/a

n/a

3

999

n/a

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 3-11-4 oc purlins.

Weight: 11 lb

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

REACTIONS. 1=3-10-0, 3=3-10-0 (size)

Max Horz 1=20(LC 7)

Max Uplift 1=-9(LC 10), 3=-9(LC 11) Max Grav 1=113(LC 1), 3=113(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

BC

WB

Matrix-P

0.07

0.00

- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

YES

- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



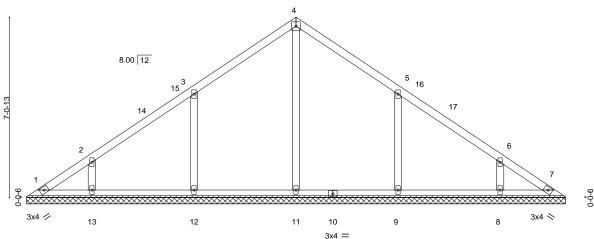
FT = 20%



Job Truss Truss Type Qty Weaver/Lot 41 West Preserve/Harnett 163260768 VALLEY J0624-3320 VC1 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Jan 25 15:39:29 2024 Page 1

ID:2KOcXZExhjzrAW8Zk1jzq7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 10-7-4 10-7-4

> Scale = 1:45.2 4x4 =



21-2-8

Plate Off	sets (X,Y)	[5:0-0-0,0-0-0], [6:0-0-0,0-0	0-0]									
LOADIN	· /	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI	2014	Matri	x-S						Weight: 92 lb	FT = 20%

LUMBER-BRACING-

2x4 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. TOP CHORD BOT CHORD 2x4 SP No.1 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.2

REACTIONS. All bearings 21-1-6.

Max Horz 1=162(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 13, 8 except 12=-113(LC 10), 9=-113(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=446(LC 17), 12=461(LC 17), 13=277(LC 17),

9=461(LC 18), 8=277(LC 18)

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

WEBS 3-12=-318/213, 5-9=-318/213

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 6-2-7, Exterior(2) 6-2-7 to 15-0-1, Interior(1) 15-0-1 to 16-3-12, Exterior(2) 16-3-12 to 20-8-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 13, 8 except (jt=lb) 12=113, 9=113.
- 7) Non Standard bearing condition. Review required.



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

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Job Truss Truss Type Qty Weaver/Lot 41 West Preserve/Harnett 163260769 J0624-3320 VC2 VALLEY Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Jan 25 15:39:30 2024 Page 1 ID:2KOcXZExhjzrAW8Zk1jzq7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 8-10-4 8-10-4 Scale = 1:39.6 4x4 = 3 8.00 12 2x4 || 2x4 || 5-10-13 3x4 > 3x4 / 11 7 9 8 6 3x4 =2x4 || 2x4 II 2x4 || Plate Offsets (X,Y)--[4:0-0-0,0-0-0] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d TCLL 20.0 Plate Grip DOL 1.15 TC 0.18 Vert(LL) 999 244/190 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.15 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.09 0.00 Horz(CT) n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Weight: 72 lb Matrix-S LUMBER-**BRACING-**TOP CHORD 2x4 SP No.1 TOP CHORD

BOT CHORD 2x4 SP No.1 **OTHERS** 2x4 SP No.2 **BOT CHORD** 

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

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

REACTIONS. All bearings 17-7-6.

(lb) -Max Horz 1=134(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-130(LC 10), 6=-129(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=402(LC 17), 9=461(LC 17), 6=461(LC 18)

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

2-9=-356/249, 4-6=-357/249 WEBS

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=130, 6=129
- 6) Non Standard bearing condition. Review required.



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Job Truss Truss Type Qty Weaver/Lot 41 West Preserve/Harnett 163260770 J0624-3320 VC3 VALLEY Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Jan 25 15:39:31 2024 Page 1 ID:2KOcXZExhjzrAW8Zk1jzq7zrqGJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 7-1-4 7-1-4 . 14-2-8 Scale = 1:30.2 4x4 = 8.00 12 2x4 || 2x4 || 2 8 7 6 3x4 / 3x4 <> 2x4 || 2x4 || 2x4 || 0-0-9 0-0-9 14-1-15 Plate Offsets (X,Y)--[4:0-0-0,0-0-0] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d TCLL 20.0 Plate Grip DOL 1.15 TC 0.13 Vert(LL) 999 244/190 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.09 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.00 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Weight: 55 lb Matrix-S LUMBER-**BRACING-**TOP CHORD 2x4 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD 2x4 SP No.1 **OTHERS** 2x4 SP No.2 **BOT CHORD** 

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

REACTIONS. All bearings 14-1-6.

(lb) -Max Horz 1=106(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-105(LC 10), 6=-104(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=260(LC 1), 8=337(LC 17), 6=337(LC 18)

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

WEBS 2-8=-289/209, 4-6=-289/209

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=105, 6=104
- 6) Non Standard bearing condition. Review required.

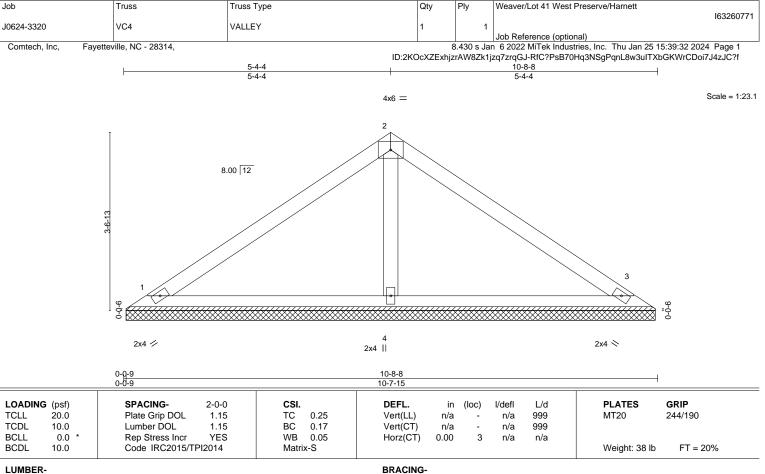


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TOP CHORD

BOT CHORD

REACTIONS.

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1

**OTHERS** 2x4 SP No.2

> 1=10-7-6, 3=10-7-6, 4=10-7-6 (size)

Max Horz 1=78(LC 7)

Max Uplift 1=-28(LC 10), 3=-35(LC 11), 4=-5(LC 10) Max Grav 1=193(LC 1), 3=193(LC 1), 4=392(LC 1)

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 6) Non Standard bearing condition. Review required.



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

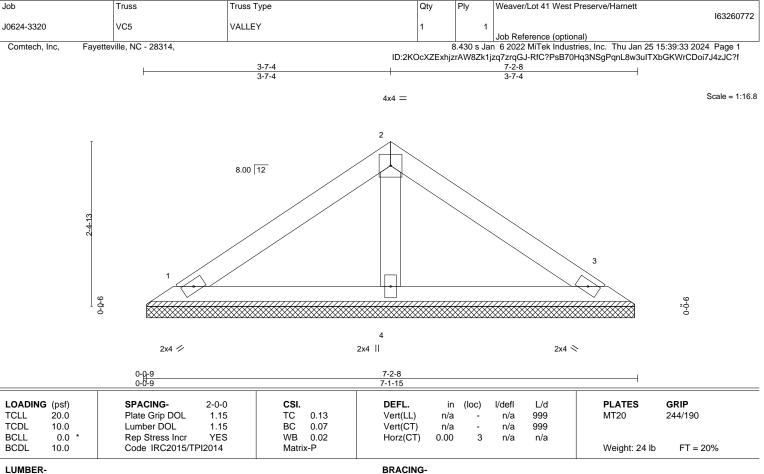
Rigid ceiling directly applied or 10-0-0 oc bracing.

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)





TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1

**OTHERS** 2x4 SP No.2

REACTIONS.

1=7-1-6, 3=7-1-6, 4=7-1-6 (size) Max Horz 1=50(LC 9) Max Uplift 1=-24(LC 10), 3=-29(LC 11)

Max Grav 1=135(LC 1), 3=135(LC 1), 4=227(LC 1)

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) Non Standard bearing condition. Review required.



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

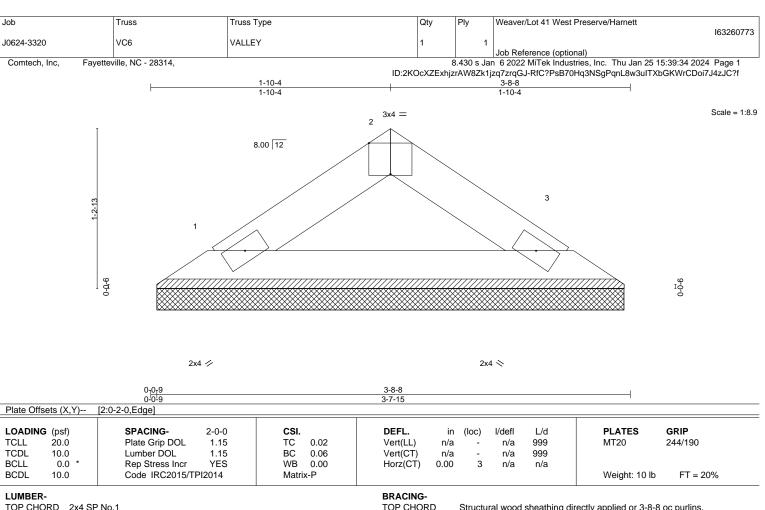
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

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TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 3-8-8 oc purlins.

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

REACTIONS.

(size) 1=3-7-6, 3=3-7-6 Max Horz 1=-22(LC 6) Max Uplift 1=-8(LC 10), 3=-8(LC 11) Max Grav 1=109(LC 1), 3=109(LC 1)

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) Non Standard bearing condition. Review required.



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

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### Symbols

## PLATE LOCATION AND ORIENTATION



offsets are indicated and fully embed teeth Center plate on joint unless x, y 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

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

\* Plate location details available in MiTek 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/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

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

DSB-22:

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

## 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

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



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

# 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 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

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- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- 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.

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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
- 11. 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
- 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 project engineer before use. environmental, health or performance risks. Consult with
- 19. 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.