

Kempsville Sanford Component Plant 298 Harvey Faulk Rd Sanford, NC 27332

Phone #:919-775-1450

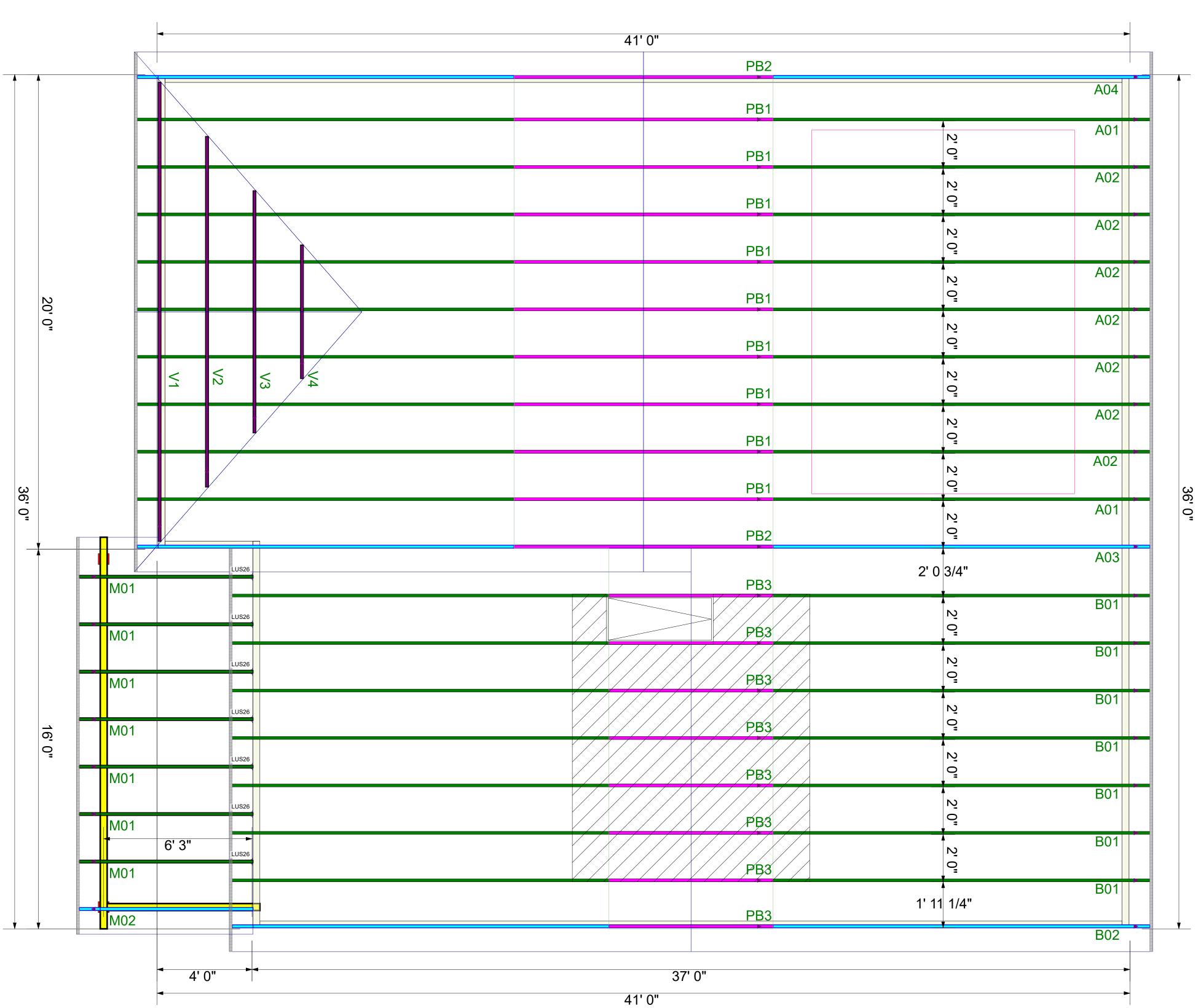
**Builder: DRB HOMES NC** 

**Model: DEVON 8 - 91 FaNC** 



### THE PLACEMENT PLAN NOTES:

- 1. The Placement Plan is a diagram for truss installation. It is not an engineered drawing and has not been reviewed by an engineer. The Owner/Building Designer is responsible for obtaining an engineer's review if one is required by the local jurisdiction.
- 2. The responsibilities of the Owner, Contractor, Building Designer, Component Designer and Component Manufacturer shall be as set forth in ANSI/TPI 1. Capitalized terms shall be as defined in ANSI/TP 1 unless otherwise indicated.
- 3. Each Component is designed as an individual component utilizing information provided by others. The Owner/Building Designer is responsible for reviewing all Component Submittal Packages and individual Component Design Drawings for compliance with the Construction Documents and compatibility with the overall Building design.
- 4. Contractor will not proceed with component installation until the Owner/Building Designer has reviewed the Component Submittal Package. Questions on the suitability of any Component will be resolved by the Building Designer.
- 5. The Building Designer and Contractor are responsible for all temporary and permanent bracing.
- 6. The Placement Plan assumes the building is dimensionally correct, structurally sound, and in a suitable condition to support each Component during installation and thereafter, including but not limited to installation of all bearing points. Proper design and construction of all structural components, including foundations, headers, beams, walls and columns are the responsibility of the Owner, Building Designer and Contractor.
- 7. Do not cut, drill, or modify any Component without first consulting the Component Manufacturer or Building Designer. Damaged Components shall not be installed unless directed by the Building Designer or approved by the Component Manufacturer.
- 8. Components must be handled and installed following all applicable safety standards and best practices, including but not limited to BCSI, OSHA, TPI and local codes. Failure to properly handle, brace or otherwise install Component can result in serious injury or death.



\*\* GIRDERS MUST BE FULLY CONNECTED TOGETHER PRIOR TO ADDING ANY LOADS.

\*\* DIMENSIONS ARE READ AS: FOOT-INCH-SIXTEENTH.

\*\* TRUSS TO TRUSS CONNECTIONS ARE TOE-NAILED, UNLESS NOTED OTHERWISE.

10/5/2022 Designer: ND NTS

TO VERIFY LOCATIONS BEFORE

REFER TO FINAL TRUSS ENGINEERING SHEETS FOR PLY TO PLY CONNECTIONS

DRB HOMES NC DEVON 8 - 91 FaNC

COMPONENT

**PLACEMENT PLAN** 



THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual components to be incorporated into the building design at the specification of the building designer. See Individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor systems and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general suidence regarding the bracing consult the building designer. For general guidance regarding the bracing, consult "Bracing of Wood Truss" available from the Truss Plate Institute, 583 D'Onifrio Drive: Madison, WI 53179

Name	00/00/00
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Revisions	Revi

**General Notes:** 

\*\* CUTTING OR DRILLING OF COMPONENTS SHOULD NOT BE DONE WITHOUT CONTACTING COMPONENT SUPPLIER

FIRST. CUSTOMER TAKES FULL RESPONSIBILITY FOR COMPONENTS IF CUT BEFORE AUTHORIZATION.

\*\* ALL BEARING POINT

S MUST BE INSTALLED PRIOR TO SETTING ANY COMPONENTS



#### **Trenco**

818 Soundside Rd Edenton, NC 27932

Re: 22090050

DRB GROUP - 91 FaNC

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carter Components (Sanford, NC)).

Pages or sheets covered by this seal: I54556803 thru I54556817

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



October 5,2022

Gilbert, Eric

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

Job		Truss	Truss Type	Qty	Ply	DRB GROUP - 91 FaNC	
2209	90050	A01	Piggyback Base	2	1	Job Reference (optional)	154556803

Run: 8.53 S Sep 22 2022 Print: 8.530 S Sep 22 2022 MiTek Industries. Inc. Wed Oct 05 08:07:56 ID:sKQsrFmzhKldS3ROH4IW00yEKdi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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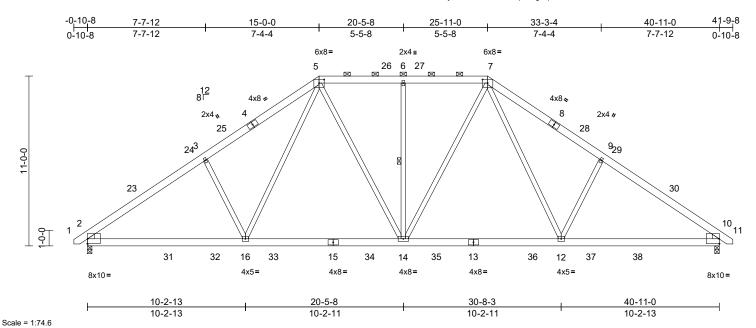


Plate Offsets (X, Y): [2:Edge,0-3-13], [5:0-4-0,0-2-12], [7:0-4-0,0-2-12], [10:Edge,0-3-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.18	12-14	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.30	12-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.09	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 311 lb	FT = 20%

#### LUMBER

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

**WEBS** 2x4 SP No.2 \*Except\* 16-3,12-9:2x4 SP No.3

WEDGE Left: 2x4 SP No.3

Right: 2x4 SP No.3

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

3-8-4 oc purlins, except

2-0-0 oc purlins (5-1-4 max.): 5-7.

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

bracing WERS

1 Row at midpt 6-14

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

Max Horiz 2=247 (LC 13)

Max Uplift 2=-170 (LC 14), 10=-170 (LC 15) Max Grav 2=1980 (LC 45), 10=1980 (LC 45)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/23, 2-3=-2803/262, 3-5=-2656/349,

5-6=-1916/313, 6-7=-1916/313,

7-9=-2656/349, 9-10=-2803/262, 10-11=0/23 **BOT CHORD** 2-16=-259/2322, 14-16=-77/1748,

12-14=-11/1748, 10-12=-98/2238

WEBS 5-16=-143/907, 3-16=-501/279,

5-14=-134/545, 6-14=-546/159, 7-14=-134/545, 7-12=-144/908,

9-12=-501/279

#### NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-3 to 3-4-15, Interior (1) 3-4-15 to 9-2-9, Exterior(2R) 9-2-9 to 31-8-7, Interior (1) 31-8-7 to 37-6-1, Exterior(2E) 37-6-1 to 41-7-3 zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.

- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



October 5,2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see 
ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply DRB GROUP - 91 FaNC 154556804 22090050 A02 1 Piggyback Base Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.53 S Sep 22 2022 Print: 8.530 S Sep 22 2022 MiTek Industries, Inc. Wed Oct 05 08:07:58 ID:3tKsGKlq3jzL7GzvtXEzgbyEKb8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

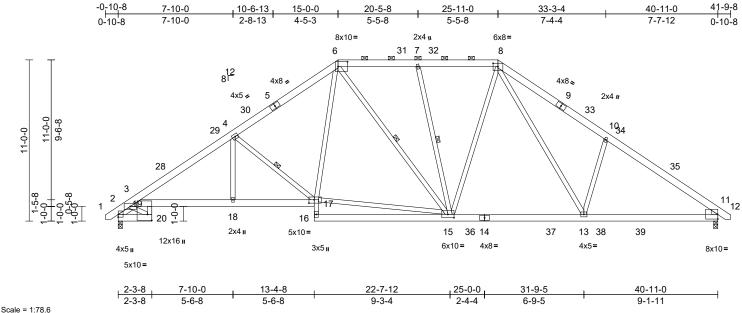


Plate Offsets (X, Y): [2:Edge,0-0-3], [6:0-7-12,0-4-0], [8:0-4-0,0-2-12], [11:Edge,0-3-13], [15:0-5-0,0-2-12], [17:0-4-4,0-2-12], [19:Edge,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.18	13-15	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.29	13-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.18	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 339 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2

**BOT CHORD** 2x6 SP No.2 \*Except\* 20-19,17-16:2x4 SP No.3, 3-17:2x6 SP 2400F 2.0E

2x4 SP No.3 \*Except\*

**WEBS** 15-7,15-8,15-6,13-8:2x4 SP No.2

WEDGE Right: 2x4 SP No.3

Left 2x4 SP No.3 -- 0-11-13 SLIDER

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

3-6-8 oc purlins, except 2-0-0 oc purlins (5-2-3 max.): 6-8.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

2-2-0 oc bracing: 19-20 **WEBS** 1 Row at midpt 4-17, 7-15, 6-15

REACTIONS (size) 2=0-3-8, 11=0-3-8

Max Horiz 2=247 (LC 13)

Max Uplift 2=-171 (LC 14), 11=-170 (LC 15)

Max Grav 2=1887 (LC 45), 11=1921 (LC 45)

**FORCES** (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/28, 2-3=-1100/87, 3-4=-3149/316,

4-6=-2459/310, 6-7=-1846/326, 7-8=-1773/304, 8-10=-2642/396,

10-11=-2720/256, 11-12=0/23 BOT CHORD 2-20=-235/1143, 19-20=-231/1218,

3-19=-278/2648, 18-19=-300/2711. 17-18=-300/2711, 16-17=0/157, 15-16=0/257,

13-15=-8/1671, 11-13=-92/2168

**WEBS** 6-17=-97/996, 4-17=-1058/268, 4-18=0/505, 7-15=-567/163, 8-15=-103/522,

6-15=-205/331, 15-17=-84/1516,

8-13=-204/941 10-13=-522/292

3-20=-1385/286

#### NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-3 to 3-4-15, Interior (1) 3-4-15 to 9-2-9, Exterior(2R) 9-2-9 to 31-8-7, Interior (1) 31-8-7 to 37-6-1, Exterior(2E) 37-6-1 to 41-7-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads
- Provide adequate drainage to prevent water ponding
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads

8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

Page: 1

- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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

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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Otv Ply DRB GROUP - 91 FaNC 154556805 22090050 A03 Piggyback Base Job Reference (optional) Run: 8.53 S Sep 22 2022 Print: 8.530 S Sep 22 2022 MiTek Industries, Inc. Wed Oct 05 08:07:59 Carter Components (Sanford), Sanford, NC - 27332, Page: 1 ID:4VUQgD\_p13ptMxmWsy3uo6yEKZY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

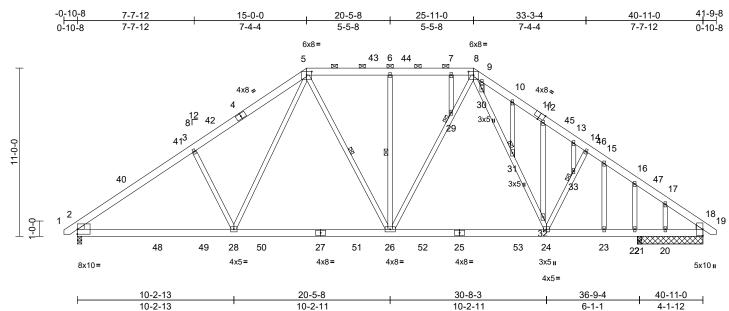


Plate Offsets (X, Y):	Plate Offsets (X, Y): [2:Edge,0-3-13], [5:0-4-0,0-2-12], [8:0-4-0,0-2-12], [11:0-3-15,Edge]												
Loading	(psf)	Spacing	2-0-0	csı	-	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.17	26-28	>999	240	MT20	244/190	
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.28	26-28	>999	180			
TCDL	10.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.08	18	n/a	n/a	1		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							1		
BCDI	10.0			1		l					Woight: 340 lb	ET - 20%	

RCDL Weight: 349 lb TOP CHORD 1-2=0/23, 2-3=-2667/255, 3-5=-2521/343, 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) LUMBER 5-6=-1779/298, 6-7=-1779/298, Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; TOP CHORD 2x6 SP No.2

**BOT CHORD** 2x6 SP No.2 **WEBS** 2x4 SP No.2 \*Except\* 28-3,24-14:2x4 SP

No.3 **OTHERS** 2x4 SP No.3

WEDGE Left: 2x4 SP No.3 Right: 2x4 SP No.3

Scale = 1:75.3

**BRACING** TOP CHORD Structural wood sheathing directly applied or

3-10-3 oc purlins, except 2-0-0 oc purlins (5-3-12 max.): 5-8.

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

bracing. **WEBS** 1 Row at midpt 5-26, 6-26

1 Brace at Jt(s): 29, **JOINTS** 

31.33

REACTIONS (size) 2=0-3-8, 18=4-3-8, 20=4-3-8,

21=0-3-8, 37=4-3-8 Max Horiz 2=247 (LC 13)

Max Uplift 2=-166 (LC 14), 18=-29 (LC 15),

20=-996 (LC 45), 21=-122 (LC 15),

37=-29 (LC 15)

Max Grav 2=1899 (LC 45), 18=1689 (LC 45), 20=6 (LC 14), 21=1324 (LC 45),

37=1689 (LC 45)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

7-8=-1779/298, 8-9=-2103/327 9-10=-2116/321, 10-12=-2239/315, 12-13=-2091/224, 13-14=-2090/204, 14-15=-2189/200, 15-16=-2058/180, 16-17=-1875/129, 17-18=-2075/93, 18-19=0/23

**BOT CHORD** 2-28=-253/2221, 26-28=-88/1632, 24-26=0/1545, 23-24=-22/1632,

22-23=-22/1632, 21-22=-22/1632 20-21=-22/1632, 18-20=-22/1632 5-28=-145/916, 3-28=-504/279, 5-26=-132/473, 6-26=-519/158,

26-29=-106/585, 8-29=-119/631 8-30=-143/794, 30-31=-120/637, 31-32=-136/710, 24-32=-13/270,

24-33=-22/364, 14-33=-13/396, 7-29=-53/14, 9-30=-170/25, 10-31=-17/81,

12-32=-468/146, 13-33=-74/16, 15-23=-337/24, 16-22=-443/111, 17-20=-16/282

NOTES

**WEBS** 

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

- Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-3 to 3-4-15, Interior (1) 3-4-15 to 9-2-9, Exterior(2R) 9-2-9 to 31-8-7, Interior (1) 31-8-7 to 37-6-1, Exterior(2E) 37-6-1 to 41-7-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.



Continued on page 2

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

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 91 FaNC	
22090050	A03	Piggyback Base	1	1	I54556805 Job Reference (optional)	5

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Page: 2

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 996 lb uplift at joint 20.
- 13) N/A
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 91 FaNC	
22090050	A04	Piggyback Base Supported Gable	1	1	Job Reference (optional)	154556806

Run: 8.53 S Sep 22 2022 Print: 8.530 S Sep 22 2022 MiTek Industries, Inc. Wed Oct 05 08:08:00 ID:vwN7V4GFd7jcdU1xiHzIEyyEKZB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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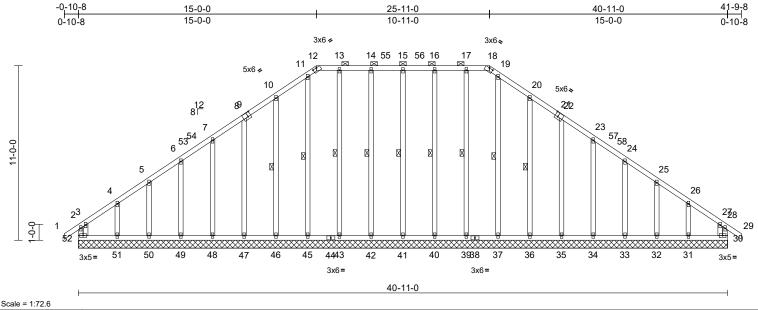


Plate Offsets (X, Y):	[9:0-2-4,0-3-4], [12:0-3-0,0-0-2], [18:0-3-0,0-0-2], [21:0-2-4,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a		n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	30	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 343 lb	FT = 20%

BCDL	10.0	
LUMBER		Max Uplift 30=-51 (LC 11), 31=-141 (LC 15),
TOP CHORE	D 2x4 SP No.2	32=-34 (LC 15), 33=-64 (LC 15),
BOT CHORE	D 2x4 SP No.2	34=-57 (LC 15), 35=-56 (LC 15),
WEBS	2x4 SP No.3	36=-78 (LC 15), 39=-14 (LC 11),
OTHERS	2x4 SP No.3 *Except*	40=-31 (LC 10), 41=-25 (LC 11),

41-15,42-14,43-13,45-11,40-16,39-17,37-19:

2x4 SP No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 12-18.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

WFBS 1 Row at midpt 15-41, 14-42, 13-43,

11-45, 10-46, 16-40,

17-39, 19-37, 20-36

REACTIONS (size) 30=40-11-0, 31=40-11-0,

32=40-11-0, 33=40-11-0, 34=40-11-0, 35=40-11-0, 36=40-11-0, 37=40-11-0,

> 39=40-11-0, 40=40-11-0, 41=40-11-0, 42=40-11-0, 43=40-11-0, 45=40-11-0, 46=40-11-0, 47=40-11-0,

> 48=40-11-0, 49=40-11-0, 50=40-11-0, 51=40-11-0, 52=40-11-0

Max Horiz 52=-276 (LC 12)

42=-31 (LC 10), 43=-15 (LC 11), 46=-76 (LC 14), 47=-56 (LC 14), 48=-57 (LC 14), 49=-65 (LC 14), 50=-29 (LC 14), 51=-157 (LC 14),

52=-108 (LC 10) Max Grav 30=192 (LC 24), 31=228 (LC 49), 32=158 (LC 22), 33=176 (LC 43),

34=230 (LC 43), 35=230 (LC 43), 36=237 (LC 43), 37=191 (LC 43), 39=221 (LC 38), 40=227 (LC 38), 41=225 (LC 38), 42=227 (LC 38), 43=221 (LC 38), 45=202 (LC 53), 46=237 (LC 41), 47=230 (LC 41), **WEBS** 

**NOTES** 

48=230 (LC 41), 49=177 (LC 47), 50=158 (LC 21), 51=251 (LC 47), 52=236 (LC 25)

**FORCES** (lb) - Maximum Compression/Maximum Tension TOP CHORD

2-52=-179/165, 1-2=0/34, 2-3=-25/55, 3-4=-208/196, 4-5=-151/142, 5-6=-144/146, 6-7=-125/164, 7-8=-125/197, 8-10=-157/241, 10-11=-196/307, 11-12=-172/261,

12-13=-169/279, 13-14=-169/279, 14-15=-169/279, 15-16=-169/279, 16-17=-169/279, 17-18=-169/279, 18-19=-172/261, 19-20=-196/307,

20-22=-157/241, 22-23=-125/187, 23-24=-94/131, 24-25=-88/97, 25-26=-94/82, 26-27=-148/123, 27-28=-26/55, 28-29=0/34,

28-30=-152/165

BOT CHORD 51-52=-113/140, 50-51=-113/140, 49-50=-113/140, 48-49=-113/140, 47-48=-113/140, 46-47=-113/140, 45-46=-113/140, 43-45=-113/140, 42-43=-113/140, 41-42=-113/140, 40-41=-113/140, 39-40=-113/140, 37-39=-113/140, 36-37=-113/140, 35-36=-113/140, 34-35=-113/140, 33-34=-113/140, 32-33=-113/140, 31-32=-113/140, 30-31=-113/140 15-41=-185/49, 14-42=-187/60, 13-43=-181/39, 11-45=-162/20, 10-46=-197/100, 8-47=-190/80, 7-48=-190/81, 6-49=-136/86, 5-50=-120/65, 4-51=-181/153, 3-52=-289/250, 16-40=-187/60, 17-39=-181/38, 19-37=-151/7, 20-36=-197/102, 22-35=-190/80, 23-34=-190/81, 24-33=-136/86, 25-32=-120/65, 26-31=-165/143, 27-30=-211/158

SORTH SEAL 036322 Thin Gilling

October 5,2022



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 91 FaNC	
22090050	A04	Piggyback Base Supported Gable	1	1	Job Reference (optional)	

Run: 8.53 S Sep 22 2022 Print: 8.530 S Sep 22 2022 MiTek Industries. Inc. Wed Oct 05 08:08:00 ID:vwN7V4GFd7jcdU1xiHzIEyyEKZB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 2

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 3-2-10, Exterior (2N) 3-2-10 to 10-10-14, Corner(3R) 10-10-14 to 19-1-2, Exterior(2N) 19-1-2 to 21-9-14, Corner(3R) 21-9-14 to 30-0-2, Exterior(2N) 30-0-2 to 37-8-6, Corner(3E) 37-8-6 to 41-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable. or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 11) Gable studs spaced at 2-0-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 52, 51 lb uplift at joint 30, 25 lb uplift at joint 41, 31 lb uplift at joint 42, 15 lb uplift at joint 43, 76 lb uplift at joint 46, 56 lb uplift at joint 47, 57 lb uplift at joint 48, 65 Ib uplift at joint 49, 29 lb uplift at joint 50, 157 lb uplift at joint 51, 31 lb uplift at joint 40, 14 lb uplift at joint 39, 78 lb uplift at joint 36, 56 lb uplift at joint 35, 57 lb uplift at joint 34, 64 lb uplift at joint 33, 34 lb uplift at joint 32 and 141 lb uplift at joint 31.
- 15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job Truss Truss Type Qty Ply DRB GROUP - 91 FaNC 154556807 22090050 B01 Piggyback Base Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.53 S Sep 22 2022 Print: 8.530 S Sep 22 2022 MiTek Industries, Inc. Wed Oct 05 08:08:01 ID:Z2hxjd1mnUfgg9L2u?c3IFyEKYC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

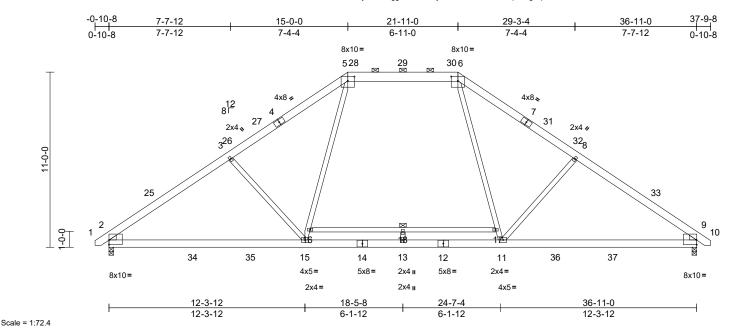


Plate Offsets (X, Y):	Plate Offsets (X, Y): [2:Edge,0-3-9], [5:0-5-0,0-3-4], [6:0-5-0,0-3-4], [9:Edge,0-3-9]												
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.37	15-21	>999	240	MT20	244/190	
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.47	13-15	>943	180			
TCDL	10.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.07	9	n/a	n/a			
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH									
BCDL	10.0										Weight: 268 lb	FT = 20%	

#### LUMBER

TOP CHORD 2x6 SP No.2 \*Except\* 5-6:2x8 SP 2400F

2.0E

**BOT CHORD** 2x6 SP 2400F 2.0E \*Except\* 14-12:2x6 SP

No.2

**WEBS** 2x4 SP No.2 \*Except\* 15-3,11-8,18-13:2x4

SP No.3

Left: 2x4 SP No.3

Right: 2x4 SP No.3

**BRACING** 

**BOT CHORD** 

TOP CHORD

**BOT CHORD** 

WEDGE

TOP CHORD Structural wood sheathing directly applied or

3-5-2 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 5-6. Rigid ceiling directly applied or 10-0-0 oc

bracing.

**WEBS** 1 Row at midpt 16-17

REACTIONS (size)

2=0-3-8, 9=0-3-8

Max Horiz 2=-245 (LC 12)

Max Uplift 2=-51 (LC 14), 9=-51 (LC 15)

Max Grav 2=1874 (LC 47), 9=1874 (LC 49) (lb) - Maximum Compression/Maximum

**FORCES** Tension

1-2=0/23, 2-3=-2598/43, 3-5=-2353/52,

5-6=-1608/138, 6-8=-2357/52, 8-9=-2600/42,

9-10=0/23

2-15=-156/2199, 13-15=0/1625, 11-13=0/1625, 9-11=0/2077

**WEBS** 15-16=0/930, 5-16=0/949, 3-15=-543/335,

6-17=0/950, 11-17=0/932, 8-11=-542/336,

16-18=-15/0, 17-18=-15/0, 13-18=0/33

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-3 to 3-0-2, Interior (1) 3-0-2 to 9-9-6, Exterior(2R) 9-9-6 to 27-1-10, Interior (1) 27-1-10 to 33-10-14, Exterior(2E) 33-10-14 to 37-7-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads
- 200.0lb AC unit load placed on the bottom chord, 18-5-8 from left end, supported at two points, 5-0-0 apart.
- Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom 8)
- chord live load nonconcurrent with any other live loads. \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



NOTES

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chore 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, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply DRB GROUP - 91 FaNC 154556808 22090050 B02 Piggyback Base Supported Gable 1 Job Reference (optional) Run: 8.53 S Sep 22 2022 Print: 8.530 S Sep 22 2022 MiTek Industries, Inc. Wed Oct 05 08:08:01 Carter Components (Sanford), Sanford, NC - 27332, Page: 1 ID:Gnt?WUm0QEK0VXWmzJCNG6yEKXF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 37-9-8 15-0-0 36-11-0 21-11-0 15-0-0 6-11-0 15-0-0 0-10-8 3x6 **⋄** 3x6 -15 5116 1250 13 14 17 5x6 4 10 18 5x6∢ 81<u>2</u> æ 1290 21<sub>52</sub> 49 6 22 X 23 24 23 <sup>25</sup>6 9 27 28 47 46 45 44 43 42 41 4039 38 3736 35 34 33 32 31 30 29 3x5= 3x5= 3x6= 3x6= 36-11-0 Scale = 1:67.7 Plate Offsets (X, Y):  $[9:0-2-4,0-3-4],\ [12:0-3-0,0-0-2],\ [16:0-3-0,0-0-2],\ [19:0-2-4,0-3-4]$ Loading 1-11-4 CSI DEFL in I/defl L/d **PLATES** GRIP (psf) Spacing (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.15 Vert(LL) n/a 999 MT20 244/190 n/a Snow (Pf) 20.0 Lumber DOL 1.15 BC 0.08 Vert(CT) n/a n/a 999 **TCDL** 10.0 Rep Stress Incr WB 28 YES 0.21 Horz(CT) 0.01 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MR Weight: 300 lb BCDL 10.0 FT = 20% LUMBER Max Grav 28=188 (LC 24), 29=222 (LC 49), **WEBS** 14-38=-183/72, 13-39=-175/37, 30=153 (LC 22), 31=167 (LC 25), 11-41=-157/19, 10-42=-186/97, 2x4 SP No.2 TOP CHORD 32=204 (LC 39), 33=220 (LC 39), 8-43=-182/78, 7-44=-165/79, 6-45=-128/84, **BOT CHORD** 2x4 SP No.2 34=224 (LC 39), 35=185 (LC 51), 37=214 (LC 38), 38=222 (LC 38), 5-46=-116/64, 4-47=-174/147, **WEBS** 2x4 SP No.3 3-48=-276/239, 15-37=-175/36, **OTHERS** 2x4 SP No.3 \*Except\* 17-35=-147/8, 18-34=-186/99, 39=214 (LC 38), 41=196 (LC 53), 38-14,39-13,41-11,37-15,35-17:2x4 SP No.2 42=224 (LC 39), 43=220 (LC 39), 20-33=-182/77, 21-32=-165/79, BRACING 22-31=-127/83 23-30=-116/64 44=204 (LC 39), 45=169 (LC 24), TOP CHORD Structural wood sheathing directly applied or 46=153 (LC 21), 47=242 (LC 47), 24-29=-160/137, 25-28=-201/155 6-0-0 oc purlins, except end verticals, and 48=228 (LC 25) NOTES 2-0-0 oc purlins (6-0-0 max.): 12-16. **FORCES** (lb) - Maximum Compression/Maximum Unbalanced roof live loads have been considered for **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc 1) Tension this design. bracing. 2-48=-173/158, 1-2=0/33, 2-3=-24/53, TOP CHORD WFBS 14-38, 13-39, 11-41, 1 Row at midpt 3-4=-198/187, 4-5=-145/136, 5-6=-138/141, 10-42, 15-37, 17-35, 6-7=-120/161, 7-8=-125/194, 8-10=-155/237, 18-34 10-11=-193/301, 11-12=-169/256, REACTIONS (size) 28=36-11-0, 29=36-11-0, 12-13=-167/273, 13-14=-167/273, 30=36-11-0, 31=36-11-0, 14-15=-167/273, 15-16=-167/273, 32=36-11-0 33=36-11-0 16-17=-169/256, 17-18=-193/301, 34=36-11-0, 35=36-11-0, 18-20=-155/237, 20-21=-125/184, 37=36-11-0. 38=36-11-0. 21-22=-94/131, 22-23=-87/98, 23-24=-90/83, 39=36-11-0, 41=36-11-0, ORTH CAR 24-25=-141/121, 25-26=-25/53, 26-27=0/33, 42=36-11-0, 43=36-11-0, 26-28=-147/158 44=36-11-0, 45=36-11-0, **BOT CHORD** 47-48=-111/133, 46-47=-111/133, 46=36-11-0, 47=36-11-0, 45-46=-111/133, 44-45=-111/133, 48=36-11-0 43-44=-111/133, 42-43=-111/133, Max Horiz 48=-267 (LC 12) 41-42=-111/133, 39-41=-111/133, Max Uplift 28=-52 (LC 11), 29=-135 (LC 15), 38-39=-111/133, 37-38=-111/133, 30=-33 (LC 15), 31=-62 (LC 15), 32=-55 (LC 15), 33=-54 (LC 15), 35-37=-111/133, 34-35=-111/133, 33-34=-111/133, 32-33=-111/133, 34=-76 (LC 15), 37=-13 (LC 11), 31-32=-111/133, 30-31=-111/133 38=-35 (LC 10), 39=-14 (LC 11), 29-30=-111/133, 28-29=-111/133 42=-74 (LC 14), 43=-54 (LC 14),

## Continued on page 2

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

44=-55 (LC 14), 45=-63 (LC 14). 46=-29 (LC 14), 47=-150 (LC 14),

48=-103 (LC 10)

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



GILB

October 5,2022

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 91 FaNC	
22090050	B02	Piggyback Base Supported Gable	1	1	I545568 Job Reference (optional)	08

Run: 8.53 S Sep 22 2022 Print: 8.530 S Sep 22 2022 MiTek Industries, Inc. Wed Oct 05 08:08:01 ID:Gnt?WUm0QEK0VXWmzJCNG6yEKXF-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 2

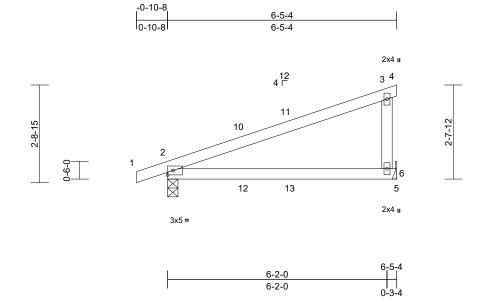
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II: Exp B: Enclosed: MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-9-13, Exterior (2N) 2-9-13 to 11-3-11, Corner(3R) 11-3-11 to 25-7-5, Exterior(2N) 25-7-5 to 34-1-3, Corner(3E) 34-1-3 to 37-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable requires continuous bottom chord bearing.
- 10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 11) Gable studs spaced at 2-0-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 48, 52 lb uplift at joint 28, 35 lb uplift at joint 38, 14 lb uplift at joint 39, 74 lb uplift at joint 42, 54 lb uplift at joint 43, 55 lb uplift at joint 44, 63 lb uplift at joint 45, 29 Ib uplift at joint 46, 150 lb uplift at joint 47, 13 lb uplift at joint 37, 76 lb uplift at joint 34, 54 lb uplift at joint 33, 55 Ib uplift at joint 32, 62 lb uplift at joint 31, 33 lb uplift at joint 30 and 135 lb uplift at joint 29.
- 15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 91 FaNC	
22090050	M01	Monopitch	7	1	Job Reference (optional)	

Run: 8.53 S Sep 22 2022 Print: 8.530 S Sep 22 2022 MiTek Industries, Inc. Wed Oct 05 08:08:02 ID:AuleCvrrSaYOgDpthWIENtyEKVs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:32.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	0.25	6-9	>291	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	0.20	6-9	>365	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 24 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.3 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-3-8, 6= Mechanical

Max Horiz 2=95 (LC 13)

Max Uplift 2=-119 (LC 10), 6=-101 (LC 10) Max Grav 2=392 (LC 21), 6=362 (LC 21)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/17, 2-3=-100/115, 3-4=-8/0,

3-6=-266/202

BOT CHORD 2-6=-93/144, 5-6=0/0

#### NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) 1) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 3-5-4, Exterior(2E) 3-5-4 to 6-5-4 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

- 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 101 lb uplift at
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

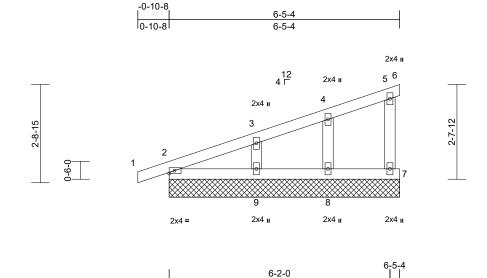




Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 91 FaNC	
22090050	M02	Monopitch Supported Gable	1	1	I54556810 Job Reference (optional)	

Run: 8.53 S Sep 22 2022 Print: 8.530 S Sep 22 2022 MiTek Industries. Inc. Wed Oct 05 08:08:02 ID:aTRnqxtklVwzXgYSMerx WyEKVp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 27 lb	FT = 20%

6-2-0

#### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WEBS **OTHERS** 2x4 SP No.3

#### BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

REACTIONS (size) 2=6-5-4, 6=6-5-4, 7=6-5-4, 8=6-5-4, 9=6-5-4, 10=6-5-4

Max Horiz 2=94 (LC 13), 10=94 (LC 13) Max Uplift 2=-31 (LC 10), 6=-17 (LC 21), 7=-23 (LC 14), 8=-29 (LC 10), 9=-47 (LC 14), 10=-31 (LC 10)

2=172 (LC 21), 6=8 (LC 14), 7=122 Max Grav (LC 21), 8=204 (LC 21), 9=267 (LC

21), 10=172 (LC 21)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/17, 2-3=-110/36, 3-4=-52/26, 4-5=-42/25, 5-6=-13/7, 5-7=-108/92

**BOT CHORD** 2-9=-46/51, 8-9=-38/51, 7-8=-38/51 **WEBS** 4-8=-170/162, 3-9=-205/193

#### NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 6-5-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 2, 17 lb uplift at joint 6, 23 lb uplift at joint 7, 29 lb uplift at joint 8, 47 lb uplift at joint 9 and 31 lb uplift at joint 2.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



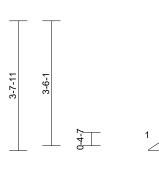


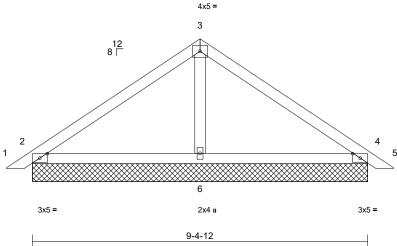
Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 91 FaNC
22090050	PB1	Piggyback	9	1	Job Reference (optional)

Run: 8.53 S Sep 22 2022 Print: 8.530 S Sep 22 2022 MiTek Industries, Inc. Wed Oct 05 08:08:03 ID:2A3baCiC5UYTk8\_EwqB6nlyEKdo-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:32.3

Plate Offsets (X, Y): [2:0-2-9,0-1-8], [4:0-2-9,0-1-8]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 38 lb	FT = 20%

#### LUMBER

2x4 SP No 2 TOP CHORD BOT CHORD 2x4 SP No 2 **OTHERS** 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=9-4-12, 4=9-4-12, 6=9-4-12,

7=9-4-12, 11=9-4-12 Max Horiz 2=81 (LC 13), 7=81 (LC 13)

2=-44 (LC 14), 4=-55 (LC 15), Max Uplift 7=-44 (LC 14), 11=-55 (LC 15)

Max Grav 2=345 (LC 21), 4=345 (LC 22), 6=344 (LC 21), 7=345 (LC 21),

11=345 (LC 22)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/16, 2-3=-239/106, 3-4=-239/106,

4-5=0/16

**BOT CHORD** 2-6=-31/107, 4-6=-15/107

**WEBS** 3-6=-171/38

#### NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Exterior(2R) 3-3-5 to 7-7-11, Exterior(2E) 7-7-11 to 10-7-11 zone; cantilever left and right exposed; end vertical left and right exposed: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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) N/A
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer

LOAD CASE(S) Standard



October 5,2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chore 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, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 91 FaNC	
22090050	PB2	Piggyback	2	1	Job Reference (optional)	

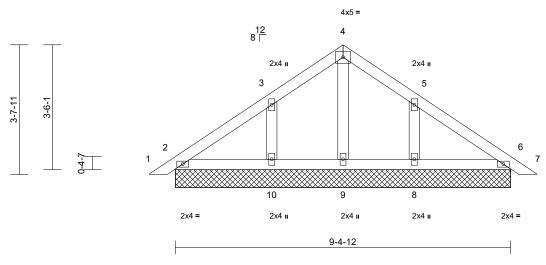
4-8-6

Carter Components (Sanford), Sanford, NC - 27332

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4-8-6





Scale = 1:32.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 42 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 **OTHERS** 

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

2=9-4-12, 6=9-4-12, 8=9-4-12. 9=9-4-12, 10=9-4-12, 11=9-4-12,

15=9-4-12

Max Horiz 2=-81 (LC 12), 11=-81 (LC 12) Max Uplift 2=-10 (LC 15), 6=-10 (LC 15), 8=-85 (LC 15), 10=-86 (LC 14),

11=-10 (LC 15), 15=-10 (LC 15) Max Grav 2=180 (LC 21), 6=180 (LC 22),

8=350 (LC 22), 9=96 (LC 27), 10=350 (LC 21), 11=180 (LC 21),

15=180 (LC 22)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/16, 2-3=-74/53, 3-4=-98/91, 4-5=-98/91, 5-6=-67/49, 6-7=0/16

**BOT CHORD** 2-10=-21/62, 9-10=-21/62, 8-9=-21/62,

6-8=-21/62

4-9=-72/0, 3-10=-265/126, 5-8=-265/126

#### **WEBS** NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-5 to 3-5-8, Exterior(2R) 3-5-8 to 7-5-8, Exterior(2E) 7-5-8 to 10-7-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) N/A
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

Page: 1

LOAD CASE(S) Standard



October 5,2022

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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

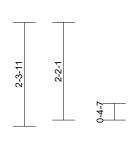


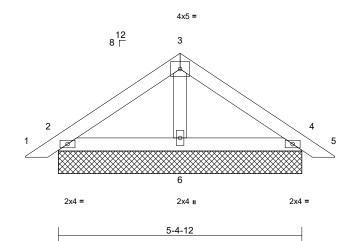
Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 91 FaNC	
22090050	PB3	Piggyback	8	1	Job Reference (optional)	3

Run: 8.53 S Sep 22 2022 Print: 8.530 S Sep 22 2022 MiTek Industries, Inc. Wed Oct 05 08:08:03 ID:cfZBIx?VFtOyRsBfnbZbCqyEKYE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

0-8-12			
	2-8-6	5-4-12	6-1-8
0-8-12	2-8-6	2-8-6	0-8-12





Scale = 1:25.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0			1							Weight: 23 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 **OTHERS** 

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=5-4-12, 4=5-4-12, 6=5-4-12, 7=5-4-12, 11=5-4-12

Max Horiz 2=-50 (LC 12), 7=-50 (LC 12)

Max Uplift 2=-29 (LC 14), 4=-36 (LC 15),

7=-29 (LC 14), 11=-36 (LC 15)

Max Grav 2=212 (LC 21), 4=212 (LC 22), 6=195 (LC 21), 7=212 (LC 21),

11=212 (LC 22)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/25, 2-3=-107/71, 3-4=-107/71,

4-5=0/25

BOT CHORD 2-6=-12/45 4-6=-3/45

WFBS 3-6=-84/18

#### NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard





818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 91 FaNC	
22090050	V1	Valley	1	1	Job Reference (optional)	154556814

Run: 8.53 S Sep 22 2022 Print: 8.530 S Sep 22 2022 MiTek Industries, Inc. Wed Oct 05 08:08:03 ID:wxl6Qali9j2vClH09fF2xbyEKdk-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

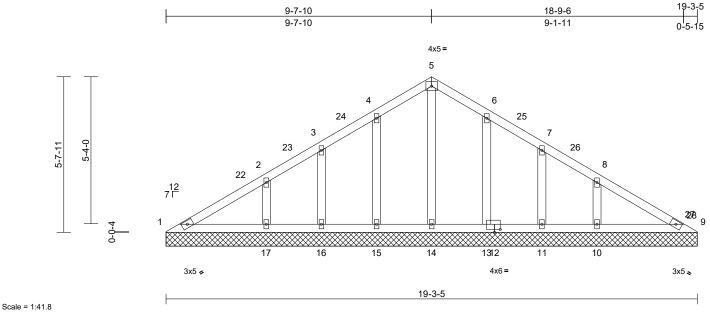


Plate Offsets (X, Y): [12:0-2-8,0-1-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 92 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2 **OTHERS** 2x4 SP No.3

### BRACING

TOP CHORD Structural wood sheathing directly applied or

10-0-0 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=19-3-5, 9=19-3-5, 10=19-3-5, 11=19-3-5, 13=19-3-5, 14=19-3-5,

> 1=128 (LC 11) Max Horiz

Max Uplift 1=-5 (LC 15), 10=-75 (LC 15),

11=-42 (LC 15), 13=-54 (LC 15), 15=-56 (LC 14), 16=-40 (LC 14),

15=19-3-5, 16=19-3-5, 17=19-3-5

17=-79 (LC 14)

Max Grav 1=103 (LC 24), 9=73 (LC 34),

10=290 (LC 24), 11=177 (LC 21), 13=267 (LC 21), 14=200 (LC 1), 15=268 (LC 20), 16=175 (LC 20),

17=296 (LC 23)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

1-2=-145/164, 2-3=-55/117, 3-4=-27/120, TOP CHORD

4-5=-28/124, 5-6=-28/117, 6-7=-3/98, 7-8=-3/81. 8-9=-109/124

**BOT CHORD** 1-17=-79/139, 16-17=-79/85, 15-16=-79/85, 14-15=-79/85, 13-14=-79/85, 11-13=-79/85,

10-11=-79/85, 9-10=-79/95

**WEBS** 5-14=-164/0, 4-15=-221/79, 3-16=-161/67,

2-17=-194/96, 6-13=-220/77, 7-11=-162/68,

8-10=-191/94

### NOTES

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-7 to 3-0-7, Interior (1) 3-0-7 to 6-8-1, Exterior(2R) 6-8-1 to 12-8-1, Interior (1) 12-8-1 to 15-8-1, Exterior(2E) 15-8-1 to 18-9-11 zone; cantilever left and right exposed; end vertical left and right exposed C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 1, 56 lb uplift at joint 15, 40 lb uplift at joint 16, 79 lb uplift at joint 17, 54 lb uplift at joint 13, 42 lb uplift at joint 11 and 75 lb uplift at joint 10.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 5,2022

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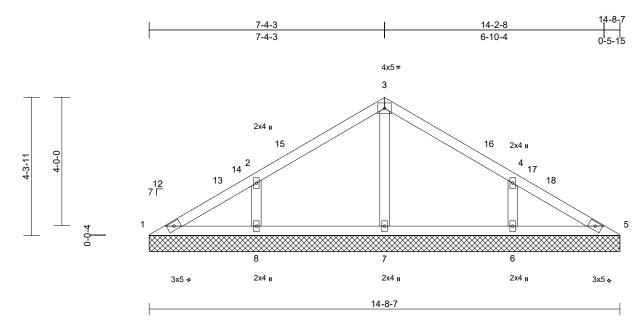
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 91 FaNC
22090050	V2	Valley	1	1	Job Reference (optional)

Run: 8.53 S Sep 22 2022 Print: 8.530 S Sep 22 2022 MiTek Industries, Inc. Wed Oct 05 08:08:04 ID:IKrrabfpxGyU91MNPr55LvyEKbG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale	-	

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 55 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 **OTHERS** 

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=14-8-7, 5=14-8-7, 6=14-8-7,

7=14-8-7, 8=14-8-7

Max Horiz 1=-97 (LC 10) Max Uplift 1=-10 (LC 15), 6=-107 (LC 15),

8=-109 (LC 14)

Max Grav 1=92 (LC 24), 5=89 (LC 34), 6=472

(LC 21), 7=327 (LC 20), 8=472 (LC

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-129/124, 2-3=-103/108, 3-4=-103/95,

4-5=-114/93

BOT CHORD 1-8=-51/119, 7-8=-51/59, 6-7=-51/59,

5-6=-51/91

WFBS 3-7=-249/22, 2-8=-388/147, 4-6=-388/146

#### NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-7 to 3-0-7, Interior (1) 3-0-7 to 4-4-10, Exterior(2R) 4-4-10 to 10-4-10, Interior (1) 10-4-10 to 11-8-14, Exterior(2E) 11-8-14 to 14-8-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this 5) desian.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 1, 109 lb uplift at joint 8 and 107 lb uplift at joint 6.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 5,2022

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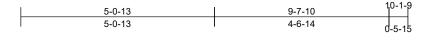
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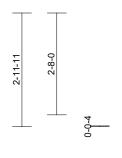


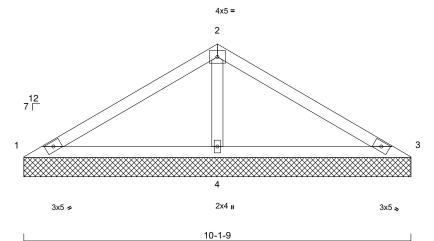
Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 91 FaNC	
22090050	V3	Valley	1	1	Job Reference (optional)	

Run: 8.53 S Sep 22 2022 Print: 8.530 S Sep 22 2022 MiTek Industries, Inc. Wed Oct 05 08:08:04 ID:AiKwvLSrSEz9I2DgAjjCxdyEKV3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:30.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.43	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 34 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 **OTHERS** 

#### BRACING

TOP CHORD Structural wood sheathing directly applied or

10-0-0 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS 1=10-1-9, 3=10-1-9, 4=10-1-9 (size)

Max Horiz 1=-66 (LC 10)

Max Uplift 1=-46 (LC 21), 3=-46 (LC 20),

4=-73 (LC 14)

Max Grav 1=122 (LC 20), 3=122 (LC 21),

4=787 (LC 21)

**FORCES** (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-117/419, 2-3=-117/419 1-4=-270/141, 3-4=-270/141

**BOT CHORD** 

2-4=-607/209 WFBS

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-7 to 3-0-7, Exterior(2R) 3-0-7 to 7-2-0, Exterior(2E) 7-2-0 to 10-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 1, 46 lb uplift at joint 3 and 73 lb uplift at joint 4.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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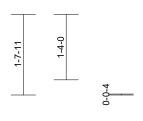
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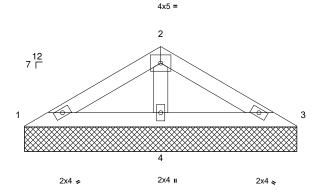


Job	Truss	Truss Type Qty Ply DRB GROUP - 91 FaNC		DRB GROUP - 91 FaNC		
22090050	V4	Valley	1	1	Job Reference (optional)	154556817

Run: 8.53 S Sep 22 2022 Print: 8.530 S Sep 22 2022 MiTek Industries. Inc. Wed Oct 05 08:08:04 ID:65SgK1U5\_sDtXMM3H8lg02yEKV1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

		5-6-11
2-9-6	5-0-12	
2-9-6	2-3-7	0-5-15





5-6-11

Scale = 1:23.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 18 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 **OTHERS** 

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-6-11 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=5-6-11, 3=5-6-11, 4=5-6-11

Max Horiz 1=-35 (LC 12)

Max Uplift 1=-7 (LC 14), 3=-13 (LC 15), 4=-27 (LC 14)

Max Grav 1=94 (LC 20), 3=94 (LC 21), 4=338

(LC 20)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-97/138, 2-3=-97/138 **BOT CHORD** 1-4=-105/85, 3-4=-105/85

2-4=-213/106 WFBS

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 5) Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1, 13 lb uplift at joint 3 and 27 lb uplift at joint 4.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



October 5,2022

Page: 1

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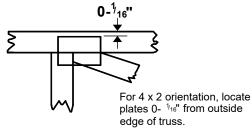


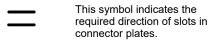
## **Symbols**

#### 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.





<sup>\*</sup> Plate location details available in MiTek 20/20 software or upon request.

#### **PLATE SIZE**

4 x 4

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

#### LATERAL BRACING LOCATION



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 where bearings occur. Min size shown is for crushing only.

#### **Industry Standards:**

ANSI/TPI1: National Design Specification for Metal

Plate Connected Wood Truss Construction.

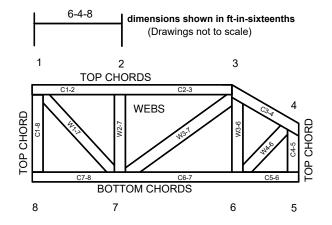
DSB-89: Design Standard for Bracing.

BCSI:

Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate

Connected Wood Trusses.

## **Numbering System**



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

#### PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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



## **General Safety Notes**

# Failure to Follow Could Cause Property Damage or Personal Injury

- 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.
- 5. 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.
- 7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- 16. Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- 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.
- 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.