

Lumber design values are in accordance with ANSI/TPI 1-2007 section 6.3 These truss designs rely on lumber values established by others.

RE: 4111083 - 5011 Ray Rd Spring Lake, NC

Trenco

818 Soundside Rd Edenton, NC 27932

**Site Information:** 

Project Customer: Carolina Construction Project Name:

Lot/Block: 5011 Subdivision: RAY ROAD

Address: 5011 RAY ROAD

City: SPRING LAKE State: SC

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: License #:

Address:

City, County: State:

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

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.6

Wind Code: ASCE 7-16 Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16

Wind Speed: 130 mph

Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 8 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Job ID#	Truss Na	ame Date
1	167367519	4111083	A01	8/6/24
2	167367520	4111083	A02	8/6/24
3	167367521	4111083	A03	8/6/24
4	167367522	4111083	A04	8/6/24
5	167367523	4111083		8/6/24
<u>6</u>	167367524	4111083	A06	8/6/24
7	167367525	4111083	A07	8/6/24
8	167367526	4111083	B01	8/6/24

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource-Sumter,SC.

Truss Design Engineer's Name: Gilbert, Eric

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

**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.



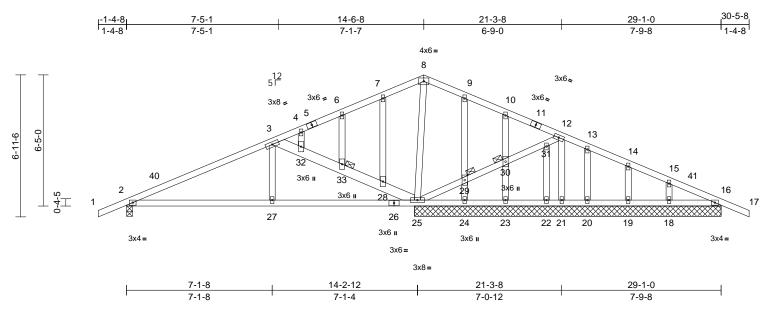
August 6,2024

Gilbert, Eric

Ply Job Truss Truss Type Qtv 5011 Ray Rd Spring Lake, NC 167367519 4111083 A01 Common Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153,

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Aug 06 13:20:52 ID:0FbzM2VnL9BwIGdvV3Y90zz\_AGA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?i Page: 1



Scale = 1:56.4

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	0.61	Vert(LL)	-0.05	27-36	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.12	27-36	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.01	25	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS		Wind(LL)	0.08	27-36	>999	240	Weight: 177 lb	FT = 20%

### LUMBER

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

2x4 SP No.3 \*Except\* 3-25:2x6 SP No.2 WEBS

2x4 SP No.3 OTHERS

### BRACING

TOP CHORD Structural wood sheathing directly applied.

Rigid ceiling directly applied. BOT CHORD JOINTS

1 Brace at Jt(s): 29, 30 33

REACTIONS (size)

2=0-3-8, 16=15-0-0, 18=15-0-0, 19=15-0-0, 20=15-0-0, 21=15-0-0, 22=15-0-0, 23=15-0-0, 24=15-0-0,

25=15-0-0, 37=15-0-0

Max Horiz 2=-149 (LC 13)

Max Uplift 2=-184 (LC 12), 16=-83 (LC 9), 18=-76 (LC 13), 19=-80 (LC 13), 20=-38 (LC 13), 21=-93 (LC 25),

23=-90 (LC 13), 24=-79 (LC 13), 25=-330 (LC 12), 37=-83 (LC 9)

Max Grav 2=530 (LC 25), 16=179 (LC 26),

18=177 (LC 1), 19=164 (LC 1), 20=111 (LC 26), 21=56 (LC 26),

22=57 (LC 3), 23=200 (LC 1), 24=115 (LC 26), 25=1039 (LC 1),

37=179 (LC 26)

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

Tension

TOP CHORD 1-2=0/32, 2-3=-575/284, 3-4=-84/244, 4-6=-116/329, 6-7=-67/327, 7-8=-31/342,

8-9=-13/315, 9-10=-28/304, 10-12=-64/316, 12-13=0/137, 13-14=0/121, 14-15=-25/109,

15-16=-100/112, 16-17=0/32 **BOT CHORD** 2-27=-179/487, 25-27=-181/481,

24-25=-95/148, 23-24=-95/148, 22-23=-95/148, 21-22=-95/148,

20-21=-95/148, 19-20=-95/148, 18-19=-95/148, 16-18=-95/148 **WEBS** 

7-28=-94/73, 24-29=-111/77, 23-30=-148/142, 22-31=-10/8, 13-20=-75/65, 14-19=-126/120, 15-18=-127/111, 3-32=-845/471, 32-33=-791/426, 28-33=-839/472, 25-28=-880/504, 8-25=-399/120, 25-29=-203/201,

29-30=-201/199, 30-31=-201/198, 12-31=-204/202, 12-21=-44/104, 4-32=-115/140, 6-33=-125/117, 9-29=-113/79,

10-30=-150/143, 3-27=0/310

### **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 C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-4-8 to 1-7-8, Exterior(2N) 1-7-8 to 14-6-8, Corner(3R) 14-6-8 to 17-6-8, Exterior (2N) 17-6-8 to 30-5-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOI = 1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint 2, 83 lb uplift at joint 16, 79 lb uplift at joint 24, 90 lb uplift at joint 23, 38 lb uplift at joint 20, 80 lb uplift at joint 19, 76 lb uplift at joint 18, 330 lb uplift at joint 25, 93 lb uplift at joint 21 and 83 lb uplift at joint 16.

- 9) 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.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord

LOAD CASE(S) Standard



August 6,2024



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

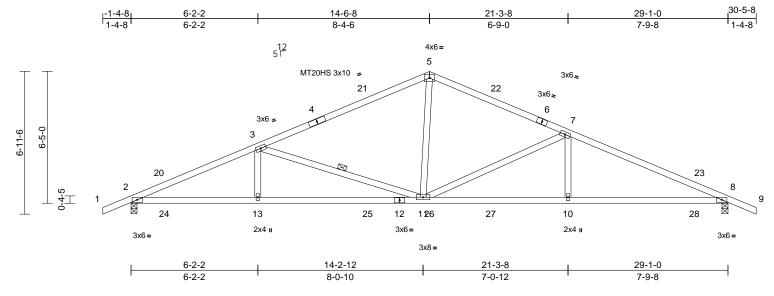
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	5011 Ray Rd Spring Lake, NC	
4111083	A02	Common	2	1	Job Reference (optional)	167367520

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Aug 06 13:20:53 ID:jjFbb41N\_hkga1\_N4ILToEz\_AFU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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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	0.86	Vert(LL)	0.48	11-13	>725	240	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.34	11-13	>999	240	MT20	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.93	Horz(CT)	-0.10	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS							Weight: 135 lb	FT = 20%

### LUMBER

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied. Rigid ceiling directly applied. **BOT CHORD** 

WEBS 1 Row at midpt 3-11 REACTIONS (size) 2=0-3-8, 8=0-3-8 Max Horiz 2=-149 (LC 13)

Max Uplift 2=-605 (LC 8), 8=-605 (LC 9) Max Grav 2=1246 (LC 1), 8=1246 (LC 1)

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

Tension

TOP CHORD 1-2=0/32, 2-3=-2503/3014, 3-5=-1664/2053, 5-7=-1603/1996. 7-8=-2353/2815. 8-9=0/32 BOT CHORD

2-13=-2692/2266, 11-13=-2692/2266. 10-11=-2506/2105, 8-10=-2506/2105 WEBS 3-13=-469/291, 3-11=-886/1099, 5-11=-1287/756, 7-11=-806/1010,

7-10=-489/299

### 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 C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-8 to 1-7-8, Interior (1) 1-7-8 to 14-6-8, Exterior(2R) 14-6-8 to 17-6-8, Interior (1) 17-6-8 to 30-5-8 zone; 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
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) \* 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 605 lb uplift at joint 2 and 605 lb uplift at joint 8.
- 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.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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

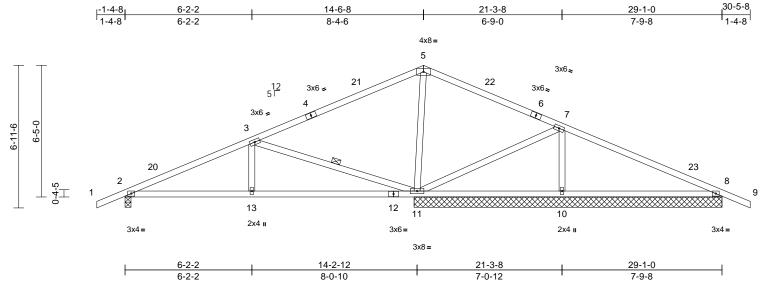
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	5011 Ray Rd Spring Lake, NC	
4111083	A03	Common	1	1	Job Reference (optional)	l67367521

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Aug 06 13:20:53 ID:jjFbb41N\_hkga1\_N4ILToEz\_AFU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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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	0.68	Vert(LL)	-0.08	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.18	10-19	>528	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.01	17	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS		Wind(LL)	0.10	10-19	>919	240	Weight: 135 lb	FT = 20%

### LUMBER

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

### **BRACING**

WEBS

TOP CHORD Structural wood sheathing directly applied. Rigid ceiling directly applied. **BOT CHORD** 

**REACTIONS** (size)

2=0-3-8, 8=15-0-0, 10=15-0-0,

11=15-0-0, 17=15-0-0

3-11

Max Horiz 2=-149 (LC 13)

1 Row at midpt

Max Uplift 2=-174 (LC 12), 8=-163 (LC 13),

10=-179 (LC 13), 11=-381 (LC 12),

17=-163 (LC 13)

Max Grav 2=513 (LC 1), 8=371 (LC 26), 10=506 (LC 26), 11=1222 (LC 1),

17=371 (LC 26)

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

Tension

TOP CHORD 1-2=0/32, 2-3=-648/187, 3-5=-122/425, 5-7=-58/361, 7-8=-129/115, 8-9=0/32

**BOT CHORD** 2-13=-226/572, 11-13=-226/572,

10-11=-44/74, 8-10=-44/90

WEBS 3-13=0/304, 3-11=-928/450, 5-11=-657/276, 7-11=-322/177, 7-10=-325/244

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 C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-8 to 1-7-8, Interior (1) 1-7-8 to 14-6-8, Exterior(2R) 14-6-8 to 17-6-8, Interior (1) 17-6-8 to 30-5-8 zone; 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 174 lb uplift at joint 2, 163 lb uplift at joint 8, 381 lb uplift at joint 11, 179 Ib uplift at joint 10 and 163 lb uplift at joint 8.
- 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.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



August 6,2024

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

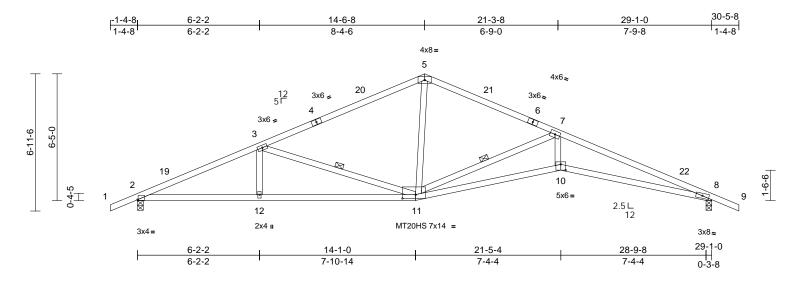
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	5011 Ray Rd Spring Lake, NC	
4111083	A04	Roof Special	12	1	Job Reference (optional)	167367522

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Aug 06 13:20:54 ID:i\_vvFlrj8HsZGHVqaJnKUuz\_AVD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:58.3

Plate Offsets (X, Y):	[2:0-0-6,Edge],	[10:0-3-0,0-3-8]	, [11:0-8-0,0-2-4]
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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	0.94	Vert(LL)	-0.32	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.67	10-11	>524	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.28	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS		Wind(LL)	0.32	10	>999	240	Weight: 133 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

**BOT CHORD** 2x4 SP No.1 \*Except\* 2-11:2x4 SP No.2

2x4 SP No.3 WEBS **BRACING** 

TOP CHORD

Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied.

WFBS 1 Row at midpt 3-11, 7-11

REACTIONS (size) 2=0-3-8, 8=0-3-8 Max Horiz 2=-149 (LC 13)

Max Uplift 2=-359 (LC 12), 8=-359 (LC 13)

Max Grav 2=1246 (LC 1), 8=1246 (LC 1)

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

Tension

TOP CHORD 1-2=0/32, 2-3=-2499/650, 3-5=-1676/487,

5-7=-1590/489, 7-8=-4277/991, 8-9=0/32 2-12=-653/2263, 11-12=-653/2263

10-11=-813/3822, 8-10=-834/3967

WFBS 3-12=0/292, 3-11=-876/431, 5-11=-102/736,

7-11=-2564/754, 7-10=-251/1714

### NOTES

BOT CHORD

- 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 C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-8 to 1-7-8, Interior (1) 1-7-8 to 14-6-8, Exterior(2R) 14-6-8 to 17-6-8, Interior (1) 17-6-8 to 30-5-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 359 lb uplift at joint 2 and 359 lb uplift at joint 8.
- 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.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



August 6,2024

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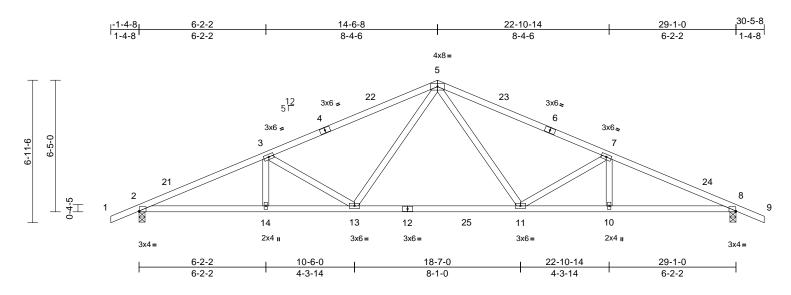
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Job	Truss	Truss Type	Qty	Ply	5011 Ray Rd Spring Lake, NC	
4111083	A05	Common	11	1	Job Reference (optional)	167367523

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Aug 06 13:20:54 

Page: 1



Scale = 1:56.1

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

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	тс	0.83	Vert(LL)	-0.26	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.47	11-13	>740	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.10	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS		Wind(LL)	0.13	13	>999	240	Weight: 137 lb	FT = 20%

### LUMBER

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied. BOT CHORD

Rigid ceiling directly applied. REACTIONS 2=0-3-8, 8=0-3-8 (size)

Max Horiz 2=-149 (LC 13) Max Uplift 2=-359 (LC 12), 8=-359 (LC 13)

Max Grav 2=1326 (LC 2), 8=1326 (LC 2)

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

TOP CHORD 1-2=0/32, 2-3=-2649/665, 3-5=-2147/538,

5-7=-2147/538, 7-8=-2649/666, 8-9=0/32

BOT CHORD 2-14=-665/2422, 13-14=-665/2422, 11-13=-253/1518. 10-11=-517/2422

8-10=-517/2422

**WEBS** 3-14=0/168, 3-13=-649/388, 5-13=-145/717,

5-11=-146/717, 7-11=-649/389, 7-10=0/168

### 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 C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-8 to 1-7-8, Interior (1) 1-7-8 to 14-6-8, Exterior(2R) 14-6-8 to 17-6-8, Interior (1) 17-6-8 to 30-5-8 zone; 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
- 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.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 359 lb uplift at joint 2 and 359 lb uplift at joint 8.
- 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.
- This truss design requires that a minimum of 7/16' structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



August 6,2024

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

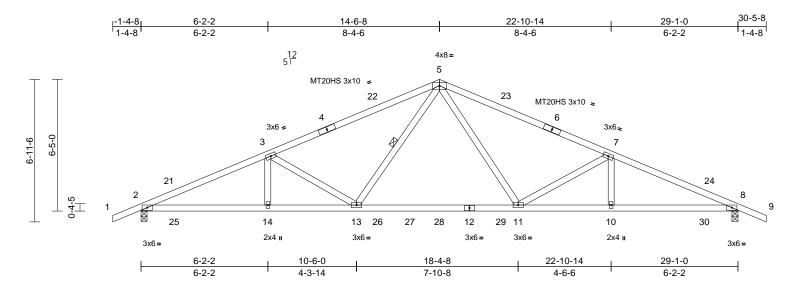
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Job	Truss	Truss Type	Qty	Ply	5011 Ray Rd Spring Lake, NC	
4111083	A06	Common	2	1	Job Reference (optional)	67367524

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Aug 06 13:20:54 ID:hHdeZdo4A2Rgt9V9dcjTb1z\_AXt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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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	0.83	Vert(LL)	-0.25	11-13	>999	360	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.45	11-13	>772	240	MT20	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.10	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS		Wind(LL)	0.51	11-13	>691	240	Weight: 137 lb	FT = 20%

### LUMBER

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied. Rigid ceiling directly applied. **BOT CHORD** 

WEBS 1 Row at midpt 5-13 REACTIONS (size) 2=0-3-8, 8=0-3-8 Max Horiz 2=-149 (LC 13)

Max Uplift 2=-605 (LC 8), 8=-547 (LC 8) Max Grav 2=1326 (LC 2), 8=1326 (LC 2)

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

Tension

TOP CHORD 1-2=0/32, 2-3=-2650/2936, 3-5=-2145/2484, 5-7=-2124/2458, 7-8=-2651/2937, 8-9=0/32 BOT CHORD 2-14=-2624/2422 13-14=-2624/2422

11-13=-1533/1519, 10-11=-2639/2423,

8-10=-2639/2423

WFBS 3-14=-263/172, 3-13=-651/662,

5-13=-977/710, 5-11=-968/701, 7-11=-664/684, 7-10=-272/178

### 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 C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-8 to 1-7-8, Interior (1) 1-7-8 to 14-6-8, Exterior(2R) 14-6-8 to 17-6-8, Interior (1) 17-6-8 to 30-5-8 zone; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) \* 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 605 lb uplift at joint 2 and 547 lb uplift at joint 8.
- 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.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



August 6,2024

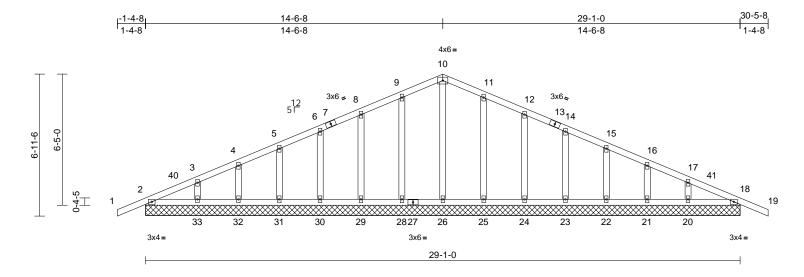
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Job	Truss	Truss Type	Qty	Ply	5011 Ray Rd Spring Lake, NC	
4111083	A07	Common Supported Gable	1	1	Job Reference (optional)	167367525

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Aug 06 13:20:54 ID:PA\_Fve5W5cx8GW5lC9r1tuz\_AAF-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



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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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	37	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS							Weight: 156 lb	FT = 20%

### LUMBER TOP CHORD

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

### **BRACING**

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied.

REACTIONS (size) 2=29-1-0, 18=29-1-0, 20=29-1-0, 21=29-1-0, 22=29-1-0, 23=29-1-0,

24=29-1-0, 25=29-1-0, 26=29-1-0, 28=29-1-0, 29=29-1-0, 30=29-1-0, 31=29-1-0, 32=29-1-0, 33=29-1-0, 34=29-1-0, 37=29-1-0

Max Horiz 2=-149 (LC 13), 34=-149 (LC 13) Max Uplift 2=-71 (LC 8), 18=-77 (LC 9), 20=-79 (LC 13), 21=-73 (LC 13),

22=-75 (LC 13), 23=-74 (LC 13), 24=-77 (LC 13), 25=-72 (LC 13), 28=-74 (LC 12), 29=-76 (LC 12), 30=-74 (LC 12), 31=-75 (LC 12), 32=-73 (LC 12), 33=-81 (LC 12), 34=-71 (LC 8), 37=-77 (LC 9)

Max Grav 2=198 (LC 1), 18=198 (LC 1) 20=176 (LC 26), 21=155 (LC 1), 22=161 (LC 1), 23=160 (LC 26), 24=159 (LC 1), 25=167 (LC 26),

26=172 (LC 22), 28=167 (LC 25), 29=159 (LC 1), 30=160 (LC 25), 31=161 (LC 1), 32=155 (LC 1), 33=176 (LC 25), 34=198 (LC 1),

37=198 (LC 1) FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

Tension 1-2=0/32, 2-3=-150/81, 3-4=-103/90, 4-5=-71/112, 5-6=-46/138, 6-8=-62/169, 8-9=-81/222, 9-10=-98/272, 10-11=-98/272,

11-12=-81/222, 12-14=-62/169, 14-15=-44/117, 15-16=-34/65, 16-17=-47/25,

17-18=-100/37, 18-19=0/32

BOT CHORD

2-33=-37/149, 32-33=-36/149, 31-32=-36/149, 30-31=-36/149, 29-30=-36/149, 28-29=-36/149, 26-28=-36/149, 25-26=-36/149, 24-25=-36/149, 23-24=-36/149, 22-23=-36/149, 21-22=-36/149, 20-21=-36/149, 18-20=-37/149 10-26=-132/0, 9-28=-127/105, 8-29=-119/114, 6-30=-120/110, 5-31=-121/111, 4-32=-118/112, 3-33=-128/112, 11-25=-127/105, 12-24=-119/114, 14-23=-120/110,

17-20=-128/113

### NOTES

**WEBS** 

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

15-22=-121/111, 16-21=-118/112,

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-4-8 to 1-7-8, Exterior(2N) 1-7-8 to 14-6-8, Corner(3R) 14-6-8 to 17-6-8, Exterior (2N) 17-6-8 to 30-5-8 zone; 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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 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.

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 2, 77 lb uplift at joint 18, 74 lb uplift at joint 28, 76 lb uplift at joint 29, 74 lb uplift at joint 30, 75 lb uplift at joint 31, 73 lb uplift at joint 32, 81 lb uplift at joint 33, 72 lb uplift at joint 25, 77 lb uplift at joint 24, 74 lb uplift at joint 23, 75 lb uplift at joint 22, 73 lb uplift at joint 21, 79 lb uplift at joint 20, 71 lb uplift at joint 2 and 77 lb uplift at
- 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) This truss design requires that a minimum of 7/16' structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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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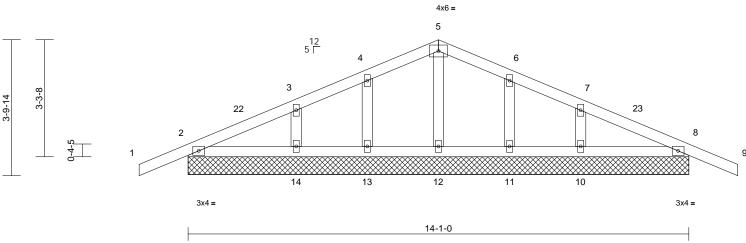


Job	Truss	Truss Type	Qty	Ply	5011 Ray Rd Spring Lake, NC	
4111083	B01	Common Supported Gable	1	1	Job Reference (optional)	67367526

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Page: 1





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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	19	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS							Weight: 61 lb	FT = 20%

### LUMBER

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

### **BRACING**

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied.

REACTIONS (size)

2=14-1-0, 8=14-1-0, 10=14-1-0, 11=14-1-0, 12=14-1-0, 13=14-1-0, 14=14-1-0, 15=14-1-0, 19=14-1-0 Max Horiz 2=79 (LC 12), 15=79 (LC 12)

Max Uplift 2=-91 (LC 8), 8=-95 (LC 9), 10=-94 (LC 13), 11=-71 (LC 13), 13=-71 (LC 12), 14=-95 (LC 12), 15=-91

(LC 8), 19=-95 (LC 9)

Max Grav

2=213 (LC 1), 8=213 (LC 1), 10=214 (LC 1), 11=148 (LC 26), 12=149 (LC 1), 13=148 (LC 25), 14=214 (LC 1), 15=213 (LC 1),

19=213 (I C 1)

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

Tension

1-2=0/32, 2-3=-85/57, 3-4=-49/106,

4-5=-65/170, 5-6=-65/170, 6-7=-48/105,

7-8=-81/30, 8-9=0/32

**BOT CHORD** 2-14=-29/108, 13-14=-14/94, 12-13=-14/94, 11-12=-14/94, 10-11=-14/94, 8-10=-29/116

5-12=-104/7, 4-13=-117/144, 3-14=-151/177, WEBS

6-11=-117/144, 7-10=-151/177

### NOTES

TOP CHORD

Unbalanced roof live loads have been considered for 1) 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 C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-4-8 to 1-7-8, Exterior(2N) 1-7-8 to 7-0-8, Corner(3R) 7-0-8 to 10-0-8, Exterior(2N) 10-0-8 to 15-5-8 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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. All plates are 2x4 MT20 unless otherwise indicated.
- 5) 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 2, 95 lb uplift at joint 8, 71 lb uplift at joint 13, 95 lb uplift at joint 14, 71 lb uplift at joint 11, 94 lb uplift at joint 10, 91 lb uplift at joint 2 and 95 lb uplift at joint 8.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



August 6,2024

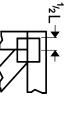
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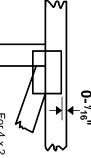


### Symbols

## 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

₹

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

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

### PLATE SIZE

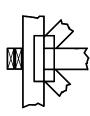
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

## 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**



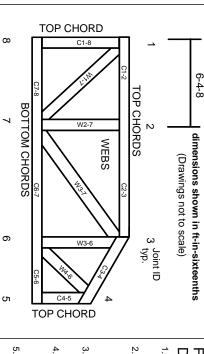
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

### 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

'n

- 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.

œ

- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the 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.