

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 2503786-27391 83 Birchwood Trails

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Lumber 2383 (Dunn, NC).

Pages or sheets covered by this seal: I76996913 thru I76996915

My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844



October 13,2025

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.

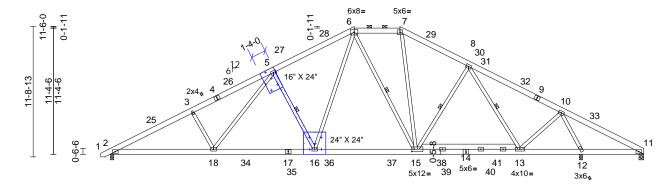
Job Truss Truss Type Qty Ply 83 Birchwood Trails 176996913 2503786-27391 A01N Hip Job Reference (optional)

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334.

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Fri Oct 10 16:23:47 ID:NXkwRlqjvCm5w3xl7KXKBQyJF4X-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



REPAIR: REPLACE WEB 5-16



INSTALL 2 X 4 SPF/DF/SP NO.2 CUT TO FIT TIGHT.

ATTACH 1/2" PLYWOOD OR OSB GUSSET (15/32" RATED SHEATHING 32/16 EXP 1)
TO EACH FACE OF TRUSS WITH (0.131" X 2.5" MIN.) NAILS PER THE FOLLOWING NAIL SCHEDULE:
2 X 3'S - 2 ROWS, 2 X 4'S - 3 ROWS, 2 X 6'S AND LARGER - 4 ROWS: SPACED @ 4" O.C.
NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE FOR A NET 2" O.C. SPACING IN EACH COVERED TRUSS MEMBER. USE 2" MEMBER END DISTANCE.

	9-3-6	16-0-0	18-4-11	27-5-13	32-0-0	36-10-4	42-4-4	48-0-0
,	9-3-6	6-8-10	2-4-11	9-1-2	4-6-3	4-10-4	5-6-0	5-7-12

Scale = 1:103.7 Plate Offsets (X, Y): [15:0-2-8,0-2-8]

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	0.51	Vert(LL)	-0.15	16-18	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.29	16-18	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.08	12	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 379 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-9-12 oc purlins, except 2-0-0 oc purlins (5-8-14 max.): 6-7.

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

bracing, Except:

6-0-0 oc bracing: 11-12.

WFBS 1 Row at midpt 6-15, 8-15, 8-13, 5-16 REACTIONS 2=0-3-8, 11=0-5-1, 12=0-3-8 (size)

Max Horiz 2=165 (LC 20)

Max Uplift 2=-65 (LC 16), 11=-334 (LC 47)

Max Grav 2=1728 (LC 2), 11=-5 (LC 16),

12=2601 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/20 2-3=-3198/102 3-5=-3061/137

5-6=-2366/146, 6-7=-1617/113,

7-8=-1991/88, 8-10=-1518/0, 10-11=-2/1089

2-18=-167/2819. 16-18=-37/2327.

15-16=0/1721, 13-15=0/1681, 12-13=0/403,

11-12=-905/8

WEBS 6-15=-372/178, 7-15=0/634, 8-15=-108/256,

8-13=-799/86, 10-13=0/1370, 10-12=-2715/0, 3-18=-397/185, 5-18=-73/686,

5-16=-761/240, 6-16=-117/989

NOTES

BOT CHORD

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-4 to 4-1-5, Interior (1) 4-1-5 to 21-11-4, Exterior(2E) 21-11-4 to 26-0-12, Exterior(2R) 26-0-12 to 32-10-3, Interior (1) 32-10-3 to 48-0-0 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10. Lu=50-0-0
- 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 2.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads
- 200.0lb AC unit load placed on the bottom chord, 32-4-0 from left end, supported at two points, 5-0-0 apart.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x6 (=) MT20 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 2 and 334 lb uplift at joint 11.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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)



Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	83 Birchwood Trails	
2503786-27391	A01P	Hip	1	1	Job Reference (optional)	176996914

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

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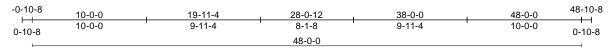
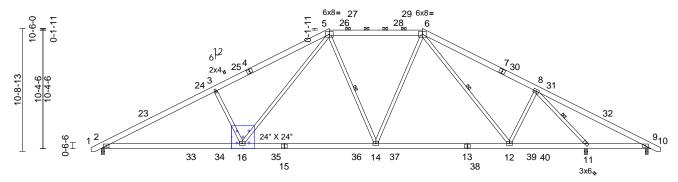
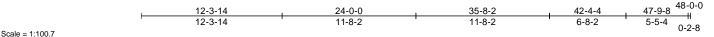


PLATE MISSING AT JOINT 16 ON ONE SIDE ONLY



ATTACH 1/2" PLYWOOD OR OSB GUSSET (15/32" RATED SHEATHING 32/16 EXP 1) TO EACH FACE OF TRUSS WITH (0.131" X 2.5" MIN.) NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 X 3'S - 2 ROWS, 2 X 4'S - 3 ROWS, 2 X 6'S AND LARGER - 4 ROWS: SPACED @ 4" O.C. NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE FOR A NET 2" O.C. SPACING IN EACH COVERED TRUSS MEMBER. USE 2" MEMBER END DISTANCE.

IRC2021/TPI2014



Matrix-MS

Loading	(psf)	Spacing	2-0-0	csı	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.89
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.87
TCDI	10.0	Ren Stress Incr	VES	W/R	0.60

DEFL in I/defl L/d **PLATES** (loc) Vert(LL) -0.2114-16 >999 240 MT20 Vert(CT) -0.36 12-14 >999 180 n/a Horz(CT) 0.09 n/a

Weight: 332 lb

GRIP

244/190

FT = 20%

LUMBER

BCLL

BCDL

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

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

0.0*

10.0

Code

2-2-0 oc purlins, except 2-0-0 oc purlins (4-9-6 max.): 5-6.

Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 9-11.

8-11, 5-14, 6-12 1 Row at midpt

WEBS REACTIONS (size) 2=0-3-8, 9=0-3-0, 11=0-3-8

Max Horiz 2=-146 (LC 17)

Max Uplift 2=-99 (LC 16), 9=-103 (LC 49),

11=-50 (LC 17)

Max Grav 2=1742 (LC 3), 9=123 (LC 57),

11=2218 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/20, 2-3=-3154/212, 3-5=-2978/267,

5-6=-1904/215, 6-8=-1868/229, 8-9=-40/612,

9-10=0/20

BOT CHORD 2-16=-195/2772, 14-16=0/1910,

12-14=0/1693, 11-12=-37/1349, 9-11=-445/81 **WEBS**

8-11=-2676/160, 5-14=-261/159,

6-14=-2/647, 6-12=-349/84, 8-12=0/624, 3-16=-625/280, 5-16=-147/1092

NOTES

1) Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-4 to 4-1-5, Interior (1) 4-1-5 to 19-11-4, Exterior(2R) 19-11-4 to 26-8-11, Interior (1) 26-8-11 to 28-0-12. Exterior(2R) 28-0-12 to 34-10-3. Interior (1) 34-10-3 to 48-8-4 zone; cantilever left and right exposed; end vertical left and right exposed; porch 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); Pg=15.0 psf; Pf=16.5 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 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 2.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x6 (=) MT20 unless otherwise indicated. This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
- 9) * 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 2, 50 lb uplift at joint 11 and 103 lb uplift at joint 9.
- 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. 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)



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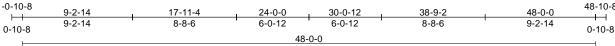
Job	Truss	Truss Type	Qty	Ply	83 Birchwood Trails		
2503786-27391	A01R	Hip	1	1	Job Reference (optional)	176996915	

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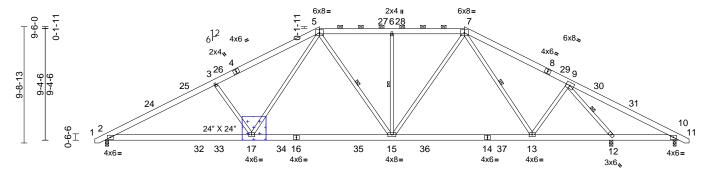
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Page: 1



REPAIR: PLATE MISSING AT JOINT 17 ON ONE SIDE ONLY



ATTACH 1/2" PLYWOOD OR OSB GUSSET (15/32" RATED SHEATHING 32/16 EXP 1) TO EACH FACE OF TRUSS WITH (0.131" X 2.5" MIN.) NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 X 3'S - 2 ROWS, 2 X 4'S - 3 ROWS, 2 X 6'S AND LARGER - 4 ROWS: SPACED @ 4" O.C. NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE FOR A NET 2" O.C. SPACING IN EACH COVERED TRUSS MEMBER. USE 2" MEMBER END DISTANCE.

1	12-3-2	24-0-0	35-8-14	42-4-4	47-9-8
	12-3-2	11-8-14	11-8-14	6-7-6	5-5-4

Scale = 1:96.4

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	0.59	Vert(LL)	-0.21	15-17	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.36	13-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.08	12	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0	l									Weight: 337 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No 2 **BOT CHORD** 2x6 SP No.2 WFBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-8-4 oc purlins, except 2-0-0 oc purlins (5-0-7 max.): 5-7.

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

bracing, Except:

6-0-0 oc bracing: 10-12. 1 Row at midpt

WEBS 5-15, 6-15, 7-13, 9-12 REACTIONS (size) 2=0-3-8 10=0-3-0 12=0-3-8

Max Horiz 2=-131 (LC 17)

2=-86 (LC 16), 10=-188 (LC 58), Max Uplift 12=-24 (LC 17)

2=1705 (LC 2), 10=28 (LC 57),

12=2267 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/20, 2-3=-3078/214, 3-5=-2852/234.

5-6=-2061/217, 6-7=-2061/217, 7-9=-1696/192. 9-10=-47/806. 10-11=0/20

2-17=-167/2708, 15-17=0/1978,

13-15=0/1610, 12-13=-29/1021,

10-12=-626/88

WFBS 5-15=-116/336, 6-15=-536/144,

7-15=-33/880, 7-13=-447/101, 9-13=0/775,

5-17=-83/936, 3-17=-594/251,

9-12=-2652/171

NOTES

TOP CHORD

BOT CHORD

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

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-4 to 4-1-5, Interior (1) 4-1-5 to 17-11-4, Exterior(2R) 17-11-4 to 24-8-11, Interior (1) 24-8-11 to 30-0-12. Exterior(2R) 30-0-12 to 36-10-3. Interior (1) 36-10-3 to 48-8-4 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 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 2.00 times flat roof load of 11.5 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 1-00-00 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 86 lb uplift at joint 2, 24 lb uplift at joint 12 and 188 lb uplift at joint 10.
- 10) 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. 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)



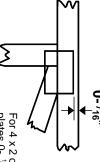
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 × 4

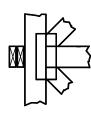
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

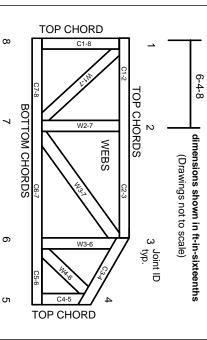
Industry Standards: ANSI/TPI1: National I

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

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

DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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

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

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Milek®



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

▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.