ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J1024-5798
Lot 10 Heritage @ Neills Creek

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I71852799 thru I71852800

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

North Carolina COA: C-0844

March 7,2025

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	Lot 10 Heritage @ Neills Creek	I71852799
J1024-5798	A18	MONOPITCH	6	1	Job Reference (optional)	

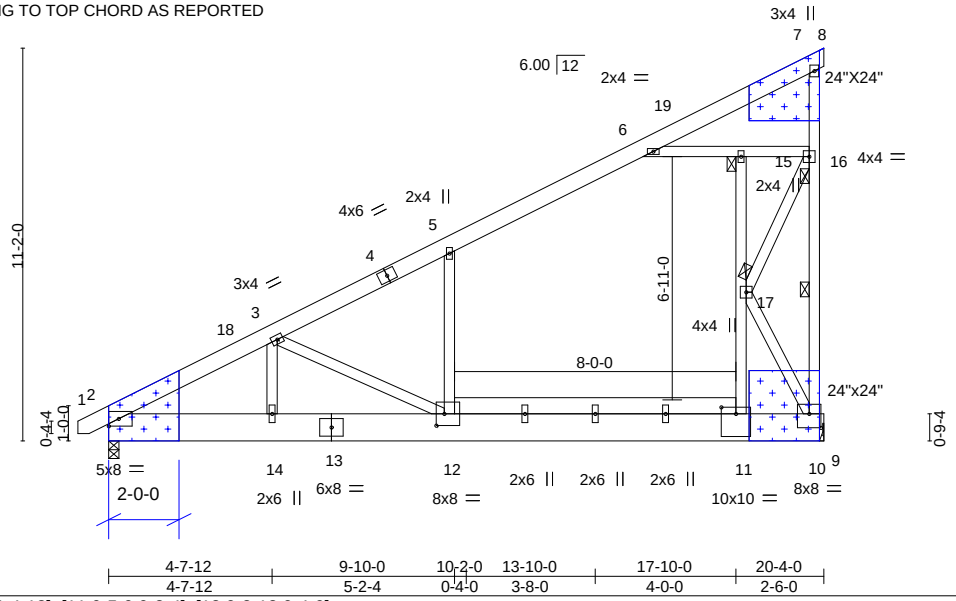
Comtech, Inc., Fayetteville, NC 28309 — 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Mar 6 15:40:58 2025 Page 1

ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-iKuSQeeCGknJtf3jr3gn2MpUEokfa3VmdOukiSzdbeJ

-0-10-8	4-7-12	9-10-0	13-10-0	17-10-0	20-4-0
0-10-8	4-7-12	5-2-4	4-0-0	4-0-0	2-6-0

REPAIR: ADD EXTRA LOADING TO TOP CHORD AS REPORTED

Scale = 1:65.5



4-7-12	9-10-0	10-2-0	13-10-0	17-10-0	20-4-0
4-7-12	5-2-4	0-4-0	3-8-0	4-0-0	2-6-0

Plate Offsets (X,Y)-- [10:0-4-0,0-4-12], [11:0-5-0,0-2-4], [12:0-2-12,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.19	12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.35	12	>692	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	-0.13	12	>999	240	Weight: 217 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x10 SP No.1 *Except*
	11-12: 2x6 SP No.1
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-8-9 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-4-11 oc bracing.
WEBS	1 Row at midpt 10-16
JOINTS	1 Brace at Jt(s): 15, 16, 17

REACTIONS. (lb/size) 10=906/Mechanical, 2=917/0-3-8
Max Horz 2=-1505(LC 10)
Max Uplift 2=-459(LC 12)
Max Grav 10=1244(LC 19), 2=917(LC 1)

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.

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

TOP CHORD	2-18=-1806/1072, 3-18=-1732/0, 3-4=-1764/0, 4-5=-1749/0, 5-6=-1602/0, 6-19=-1666/90, 7-19=-492/214, 10-16=-1287/1326, 7-16=-462/1145
BOT CHORD	2-14=-304/1661, 13-14=-304/1661, 12-13=-304/1661, 11-12=-163/617, 10-11=-166/620
WEBS	3-12=-1349/160, 5-12=-342/326, 11-17=-391/2035, 6-15=-645/139, 15-16=-639/134, 10-17=-1271/331, 16-17=-327/1296, 3-14=-154/663

NOTES-

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
2) C-C wind load user defined.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 459 lb uplift at joint 2.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Load case(s) 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21, 22, 23 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
9) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 358 lb down and 358 lb up and 1474 lb right at 3-8-8, and 532 lb right at 3-8-8, and 129 lb down and 358 lb up and 1474 lb left at 19-8-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-18=-60, 7-18=-70, 7-8=-30, 2-9=-20

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LOAD CASE(S) Standard Except:

4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=70, 2-18=40, 7-18=28, 7-8=-9, 2-9=-12
   Horz: 2-18=-52, 7-18=-37
   Concentrated Loads (lb)
   Vert: 18=358 19=-358
   Horz: 18=1474
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=18, 2-18=25, 7-18=26, 7-8=20, 2-9=-12
   Horz: 2-7=-37, 7-8=-30
   Concentrated Loads (lb)
   Vert: 18=358 19=-358
   Horz: 18=1474
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-9, 2-18=-38, 7-18=-45, 7-8=-27, 2-9=-20
   Horz: 2-7=18
   Concentrated Loads (lb)
   Vert: 18=358 19=-358
   Horz: 18=1474
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-31, 2-18=-38, 7-18=-45, 7-8=-38, 2-9=-20
   Horz: 2-7=18, 7-8=11
   Concentrated Loads (lb)
   Vert: 18=358 19=-358
   Horz: 18=1474
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=14, 2-18=-2, 7-18=-3, 7-8=-10, 2-9=-12
   Horz: 2-7=-10, 7-8=-4
   Concentrated Loads (lb)
   Vert: 18=358 19=-358
   Horz: 18=1474
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=5, 2-18=11, 7-18=11, 7-8=5, 2-9=-12
   Horz: 2-7=-23, 7-8=-17
   Concentrated Loads (lb)
   Vert: 18=358 19=-358
   Horz: 18=1474
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-16, 2-18=-23, 7-18=-29, 7-8=-22, 2-9=-20
   Horz: 2-7=3, 7-8=-4
   Concentrated Loads (lb)
   Vert: 18=358 19=-358
   Horz: 18=1474
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-3, 2-18=-10, 7-18=-16, 7-8=-9, 2-9=-20
   Horz: 2-7=-10, 7-8=-17
   Concentrated Loads (lb)
   Vert: 18=358 19=-358
   Horz: 18=1474
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=14, 2-18=21, 7-18=22, 7-8=15, 2-9=-12
   Horz: 2-7=-33, 7-8=-26
   Concentrated Loads (lb)
   Vert: 18=358 19=-358
   Horz: 18=1474
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=2, 2-18=9, 7-18=8, 7-8=1, 2-9=-12
   Horz: 2-7=-21, 7-8=-14
   Concentrated Loads (lb)
   Vert: 18=358 19=-358
   Horz: 18=1474
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=14, 2-18=21, 7-18=22, 7-8=15, 2-9=-12
   Horz: 2-7=-33, 7-8=-26

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LOAD CASE(S) Standard Except:

Concentrated Loads (lb)
Vert: 18=358 19=-358
Horz: 18=1474

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=2, 2-18=9, 7-18=8, 7-8=1, 2-9=-12
Horz: 2-7=-21, 7-8=-14
Concentrated Loads (lb)
Vert: 18=358 19=-358
Horz: 18=1474

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-18=-1, 7-18=-7, 2-9=-20
Horz: 2-7=-19, 7-8=-26
Concentrated Loads (lb)
Vert: 18=358 19=-358
Horz: 18=1474

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-6, 2-18=-13, 7-18=-19, 7-8=-12, 2-9=-20
Horz: 2-7=-7, 7-8=-14
Concentrated Loads (lb)
Vert: 18=358 19=-358
Horz: 18=1474

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-47, 2-18=-52, 7-18=-62, 7-8=-27, 2-12=-20, 11-12=-65, 9-11=-20
Horz: 2-7=2, 7-8=-3
Concentrated Loads (lb)
Vert: 18=129 19=-129(F)
Horz: 18=532(F)

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-37, 2-18=-42, 7-18=-52, 7-8=-17, 2-12=-20, 11-12=-65, 9-11=-20
Horz: 2-7=-8, 7-8=-13
Concentrated Loads (lb)
Vert: 18=129 19=-129(F)
Horz: 18=532(F)

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-31, 2-18=-36, 7-18=-45, 7-8=-10, 2-12=-20, 11-12=-65, 9-11=-20
Horz: 2-7=-14, 7-8=-19
Concentrated Loads (lb)
Vert: 18=129 19=-129(F)
Horz: 18=532(F)

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-18=-45, 7-18=-54, 7-8=-19, 2-12=-20, 11-12=-65, 9-11=-20
Horz: 2-7=-5, 7-8=-10
Concentrated Loads (lb)
Vert: 18=129 19=-129(F)
Horz: 18=532(F)

23) User defined: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=70, 2-18=40, 7-18=28, 7-8=-9, 2-9=-12
Horz: 2-18=-52, 7-18=-37
Concentrated Loads (lb)
Vert: 18=-358 19=358(F)
Horz: 19=-1474(F)

Job	Truss	Truss Type	Qty	Ply	Lot 10 Heritage @ Neills Creek
J1024-5798	A19	MONOPITCH	1	1	I71852800

Job Reference (optional)

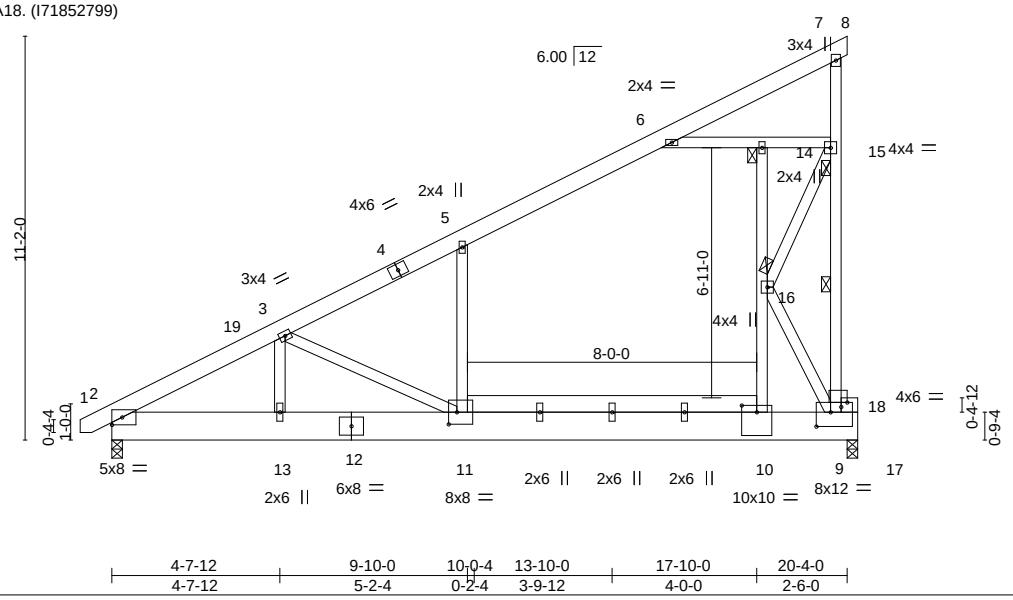
Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Thu Mar 6 08:25:13 2025 Page 1

ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-10-8	4-7-12	4-9-8	9-10-0	10-0-4	13-5-8	17-10-0	20-4-0	20-7-8
0-10-8	4-7-12	0-1-12	5-0-8	0-2-4	3-5-4	4-4-8	2-6-0	0-3-8

SAME REPAIR AS A18. (I71852799)

Scale: 3/16"=1'



4-7-12	9-10-0	10-0-4	13-10-0	17-10-0	20-4-0
4-7-12	5-2-4	0-2-4	3-9-12	4-0-0	2-6-0

Plate Offsets (X,Y)-- [10:0-5-0,0-2-4], [11:0-2-12,0-4-0], [17:0-4-12,0-4-12], [18:0-2-0,0-1-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.19	11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.34	11	>697	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.15	11	>999	240	Weight: 219 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1 *Except*
2-12,12-17: 2x10 SP No.1
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-8 oc bracing.
WEBS 1 Row at midpt 15-17
JOINTS 1 Brace at Jt(s): 14, 15, 16

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=342(LC 12)
Max Uplift 2=-16(LC 12), 9=-213(LC 12)
Max Grav 2=941(LC 19), 9=2046(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1660/136, 3-5=-743/0, 5-6=-687/26, 9-15=-1156/354
BOT CHORD 2-13=-459/1406, 11-13=-459/1406, 10-11=-155/595, 9-10=-156/598
WEBS 3-13=-139/604, 3-11=-919/345, 10-16=-405/1915, 5-11=-334/242, 6-14=-633/169, 14-15=-628/167, 9-16=-1165/292, 15-16=-313/1253

NOTES-

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 20-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 2 and 213 lb uplift at joint 9.
5) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
6) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1100 lb down and 288 lb up at 20-2-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-19=-60, 7-19=-70, 7-8=-70, 2-9=-20
Concentrated Loads (lb)
Vert: 9=-1100

March 7,2025

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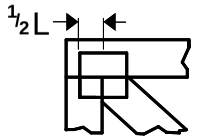
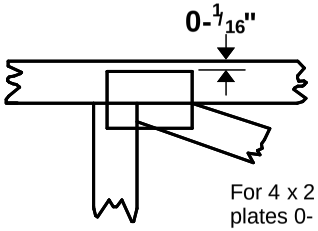
Symbols

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.



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.

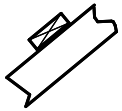
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

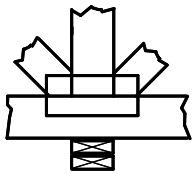
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

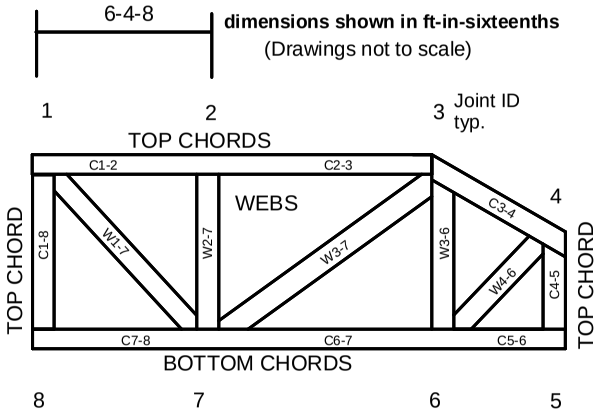


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

MiTek®

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. 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.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. 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.
6. 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.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. 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.
12. 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.
14. 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.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. 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.