



VILLA TRUSS

651 N. Cherokee Ln. Suite A
Lodi, CA 95240
(209) 333-7117
www.villatruss.com

GROVETON WAY

1604 GROVETON WAY
MODESTO, CA 95355

JOB # 43159

CUSTOMER: TOOR CONSTRUCTION INC
SALESMAN: RANDY GALL

TRUSS Layout And Engineering

See Mitek ICC report ESR-1988, dated June 2008. Connector plates shall be made from 20 or 18 gauge ASTM A 653 SS, grade 40, G60 galvanized steel, (16 gauge where noted- ESR-1352 dated June 1, 2009). Plates shall be applied to both sides of truss at each joint. Where dimensions are not shown, plates shall be placed symmetrically about the joint. Cutting and fabrication shall be accomplished using equipment which will produce snug fitting and fully embedded plates. The design assumes that the compression top chord is continuously braced by the sheathing.

Only permanent structural bracing for lateral stability of individual truss members is noted on the design. Trusses can collapse and cause damage and personal injury if improperly installed and/or braced. Bracing shown on the drawing is not erection bracing. Refer to: "Bracing

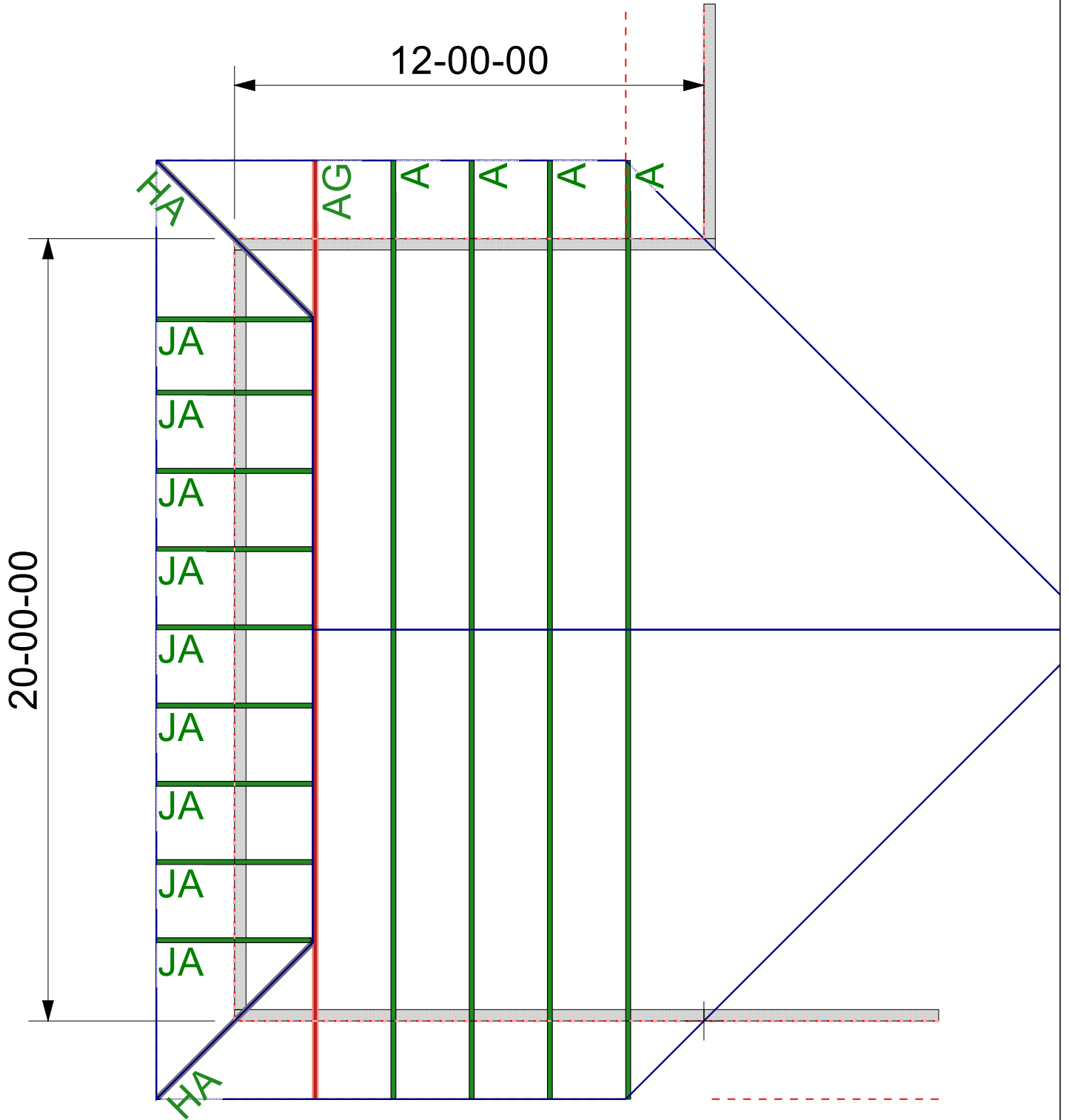
Wood Trusses" as published by the "Truss Plate Institute", 583 D'onofrio Drive, Suite 200 Madison, WI 53719. (608) 833-5900.

Villa Truss is a certified member of the Wood Truss Council of America Quality Control program. The In-Plant WTCA QC program helps truss manufacturers monitor the quality of trusses they manufacture. The program consists of inspecting trusses and entering the data into the software program, allowing the truss manufacturer to store data and create reports to assess plant quality. Villa Truss also participates in a quarterly third party inspection, performed by a certified agency.



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WARNING:

Drilling, sawing, sanding or machining wood products generates wood dust and other substances known to the State of California to cause cancer. Avoid inhaling dust generated from wood products or use a dust mask or other safeguards to avoid inhaling dust generated from wood products.

Wood products emit chemicals known to the State of California to cause birth defects or other reproductive harm.

CALIFORNIA HEALTH AND SAFETY CODE SECTION 25249.6



**VILLA
TRUSS**

Manufactured Components

651 N. CHEROKEE LN. STE A, LODI, CA 95240-4267

209-333-7117 OFFICE 209-333-7134 FAX

Customer:	TOOR CONSTRUCTION INC		
Address:	1604 GROVETON WAY		
City:	MODESTO	Scale:	NTS
State:	CA	Lot #:	9/10/21
Job #:	43159	Job Rep:	RG
		Date:	7/25/2023



MiTek USA, Inc.
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661
Telephone 916-755-3571

Re: 43159
1604 Groveton Way

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Villa Truss.

Pages or sheets covered by this seal: R77487661 thru R77487664

My license renewal date for the state of California is September 30, 2024.



July 25, 2023

Reinmuth, Dustin

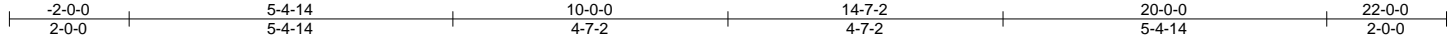
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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	1604 Groveton Way	R77487661
43159	A	Common	4	1	Job Reference (optional)	

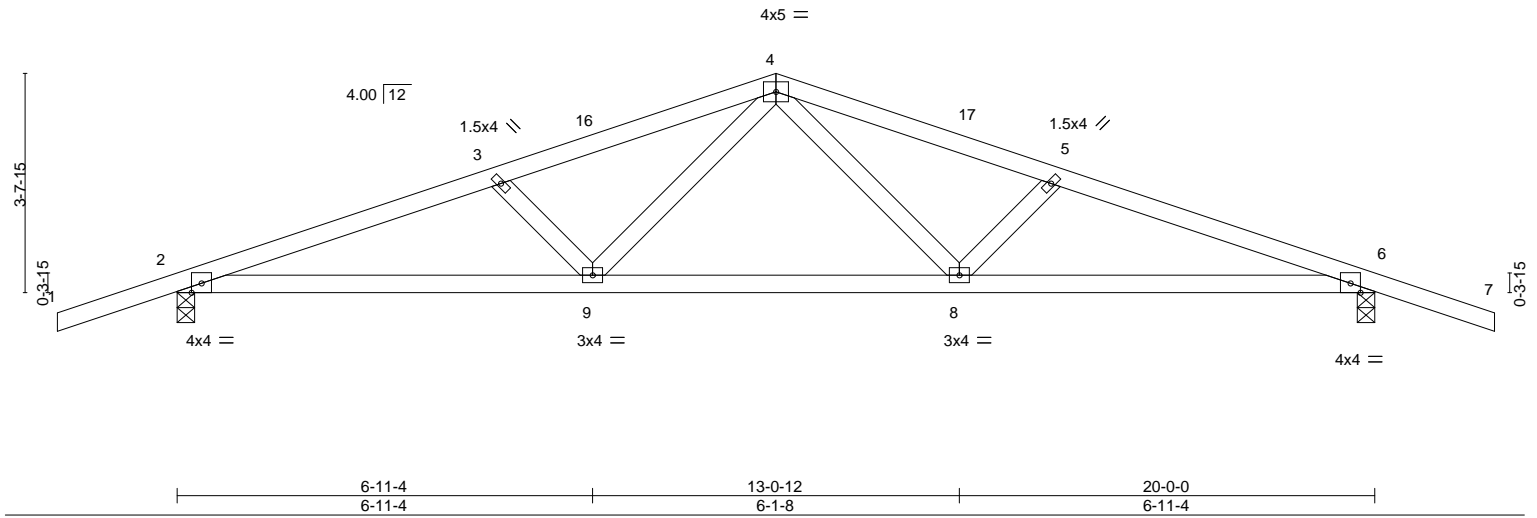
Villa Truss, Lodi, CA - 95240,

8.630 s Nov 19 2022 MiTek Industries, Inc. Tue Jul 25 15:53:38 2023 Page 1

ID:BrQlrZBR6uRnwKrlzOclD9ywA_n-RFC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:38.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	Vert(LL) -0.07	8-9	>999	240	MT20	220/195
TCDL 10.0	Plate Grip DOL 1.25	BC 0.48	Vert(CT) -0.23	8-9	>999	180		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.21	Horz(CT) 0.06	6	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Wind(LL) 0.07	8-9	>999	360	Weight: 79 lb	FT = 20%
	Code IBC2021/TPI2014							

LUMBER-
 TOP CHORD 2X4 DF No.2 G
 BOT CHORD 2X4 DF No.2 G
 WEBS 2X4 DF Std G

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-5-7 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 8-2-2 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
 Max Horz 2=62(LC 16)
 Max Uplift 2=-333(LC 8), 6=-333(LC 9)
 Max Grav 2=920(LC 1), 6=920(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1836/694, 3-4=-1628/619, 4-5=-1628/619, 5-6=-1836/694
 BOT CHORD 2-9=-581/1716, 8-9=-338/1162, 6-8=-591/1716
 WEBS 4-8=-156/512, 5-8=-332/220, 4-9=-156/512, 3-9=-332/220

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCCL=4.8psf; BCDL=4.0psf; h=20ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 0-9-12, Interior(1) 0-9-12 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 22-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - Plates checked for a plus or minus 20 degree rotation about its center.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - A plate rating reduction of 20% has been applied for the green lumber members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=333, 6=333.



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Job	Truss	Truss Type	Qty	Ply	1604 Groveton Way	R77487662
43159	AG	GABLE	1	1	Job Reference (optional)	

Villa Truss, Lodi, CA - 95240,

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ID:BrQlrZBR6uRnwKrlzOclD9ywA_n-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?#



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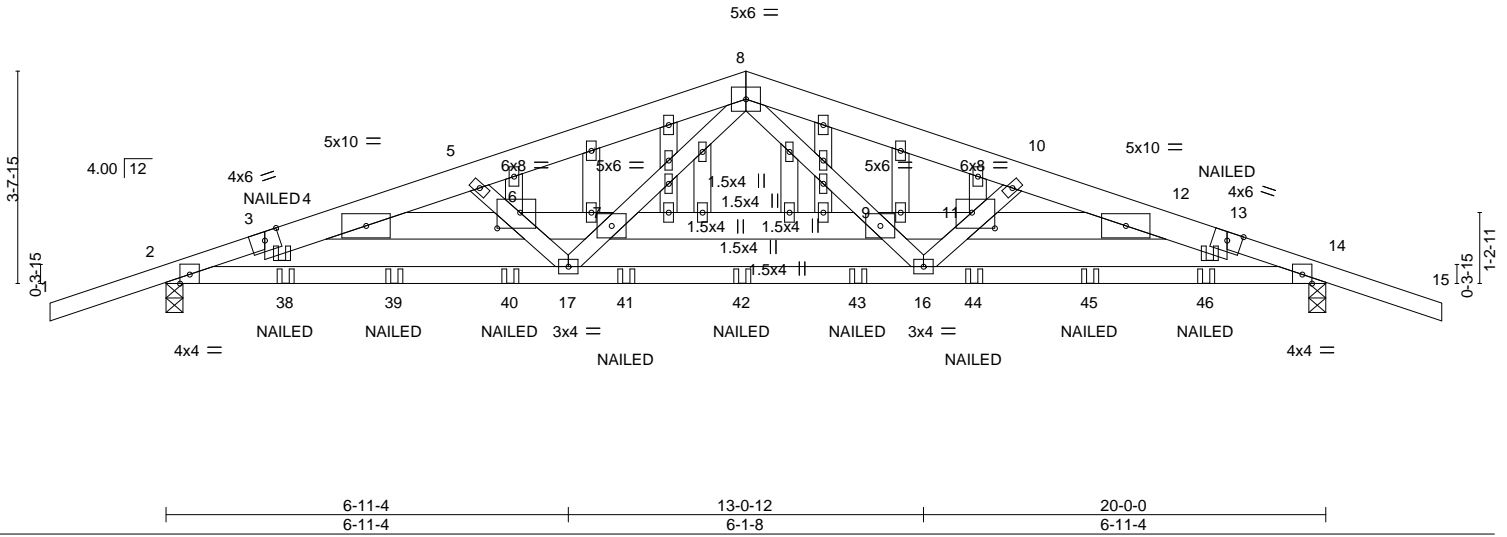


Plate Offsets (X,Y)--	[6:0-4-12,0-3-4], [11:0-4-12,0-3-4]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.24	Vert(LL) -0.06	16-17	>999	240	MT20	220/195
TCDL 10.0	Lumber DOL 1.25	BC 0.46	Vert(CT) -0.21	16-17	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.28	Horz(CT) 0.06	14	n/a	n/a		
BCDL 10.0	Code IBC2021/TPI2014	Matrix-MS	Wind(LL) 0.08	16-17	>999	360		
							Weight: 136 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2X6 DF No.2 G *Except* 1-3,13-15: 2X4 DF No.2 G	TOP CHORD Structural wood sheathing directly applied or 4-7-5 oc purlins.
BOT CHORD 2X4 DF No.2 G	BOT CHORD Rigid ceiling directly applied or 7-5-15 oc bracing.
WEBS 2X4 DF Std G	
OTHERS 2X4 DF Std G	

REACTIONS. (size) 2=0-3-8, 14=0-3-8
 Max Horz 2=60(LC 8)
 Max Uplift 2=-393(LC 4), 14=-392(LC 5)
 Max Grav 2=889(LC 1), 14=889(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1812/741, 4-5=-1850/802, 5-8=-1642/702, 8-10=-1642/694, 10-12=-1850/795, 12-14=-1812/746
 BOT CHORD 2-17=-707/1698, 16-17=-418/1152, 14-16=-652/1698
 WEBS 8-9=-221/513, 9-16=-214/516, 11-16=-325/198, 10-11=-328/221, 7-17=-221/522, 7-8=-225/516, 5-6=-328/223, 6-17=-325/204


- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.0psf; h=20ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Plates checked for a plus or minus 20 degree rotation about its center.
 - Gable studs spaced at 1-4-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - A plate rating reduction of 20% has been applied for the green lumber members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=393, 14=392.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



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LOAD CASE(S) Standard
 Continued on page 2

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



MiTek USA, Inc.
 400 Sunrise Avenue, Suite 270
 Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	1604 Groveton Way	R77487662
43159	AG	GABLE	1	1	Job Reference (optional)	

Villa Truss, Lodi, CA - 95240,

8.630 s Nov 19 2022 MiTek Industries, Inc. Tue Jul 25 15:53:40 2023 Page 2
 ID:BrQlrZBR6uRnwKrlz0cLd9yWA_n-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
 - Vert: 1-4=-60, 4-8=-60, 8-12=-60, 12-15=-60, 32-35=-20
- Concentrated Loads (lb)
 - Vert: 3=31(F) 13=31(F)

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



MiTek USA, Inc.
 400 Sunrise Avenue, Suite 270
 Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	1604 Groveton Way	R77487663
43159	HA	Rafter	2	1	Job Reference (optional)	

Villa Truss, Lodi, CA - 95240,

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ID:BrQlrZBR6uRnwKrlz0cLd9ywA_n-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-2-9-15
2-9-15

2-8-7
2-8-7

3x4 =

Scale = 1:10.8

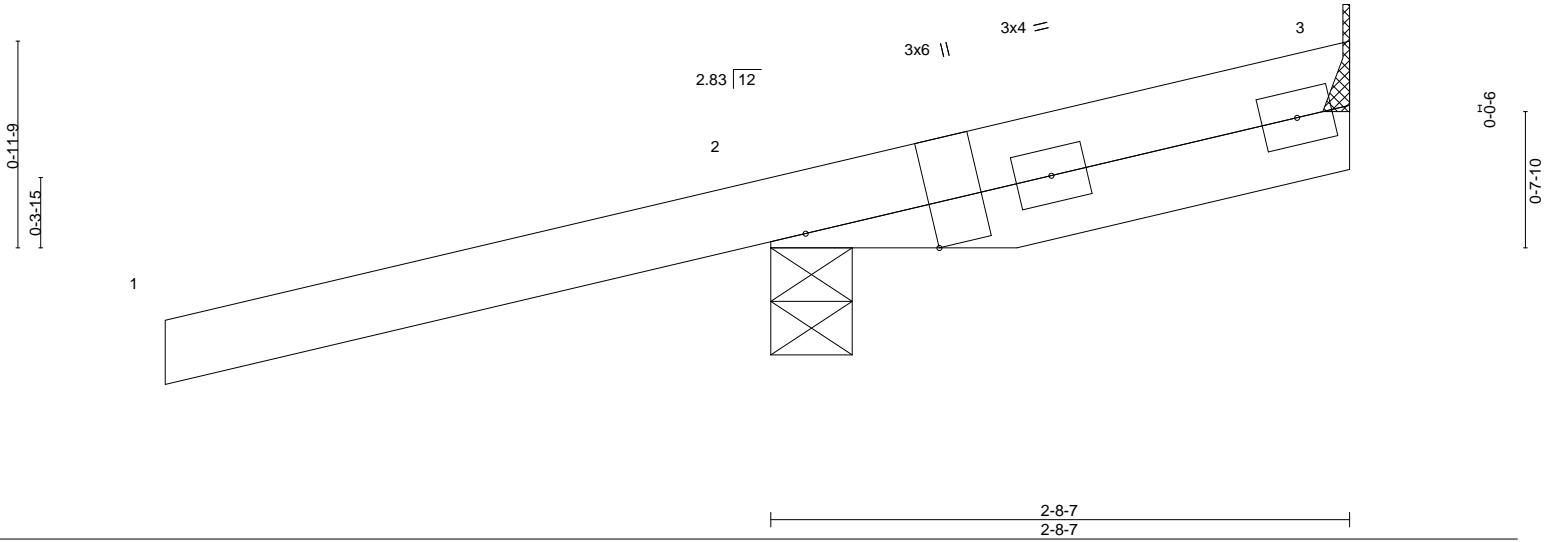


Plate Offsets (X,Y)-- [2:0-2-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.49	Vert(LL)	0.00	2-3	>999	240	MT20	220/195
TCDL 10.0	Lumber DOL	1.25	BC 0.00	Vert(CT)	0.00	2-3	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IBC2021/TPI2014		Matrix-MP	Wind(LL)	-0.00	2-3	>999	360	Weight: 12 lb	FT = 20%

LUMBER-
TOP CHORD 2X4 DF No.2 G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-4-9
Max Horz 2=53(LC 8)
Max Uplift 3=-21(LC 15), 2=-211(LC 8)
Max Grav 3=24(LC 10), 2=335(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCCL=4.8psf; BCDL=4.0psf; h=20ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-9-15 to -0-0-8, Interior(1) -0-0-8 to 2-7-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Plates checked for a plus or minus 20 degree rotation about its center.
- 3) * This truss has been designed for a live load of 20.0psf 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.
- 4) A plate rating reduction of 20% has been applied for the green lumber members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=211.



July 25, 2023

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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



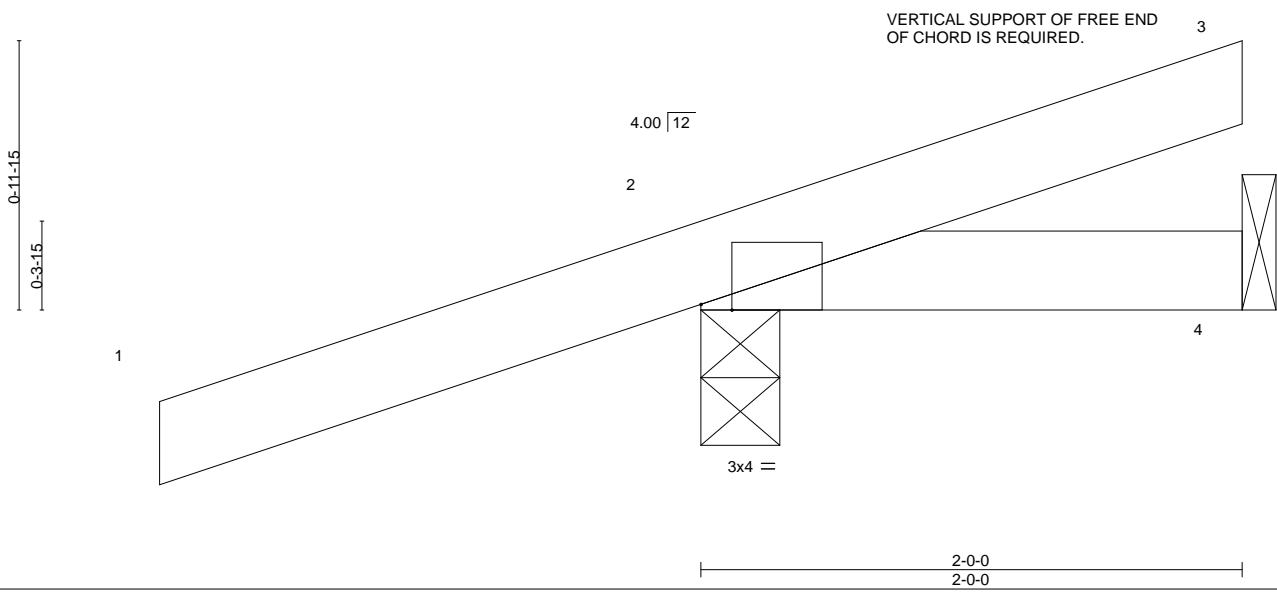
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job 43159	Truss JA	Truss Type Jack-Open	Qty 9	Ply 1	1604 Groveton Way Job Reference (optional)	R77487664
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Villa Truss, Lodi, CA - 95240,

8.630 s Nov 19 2022 MiTek Industries, Inc. Tue Jul 25 15:53:41 2023 Page 1

ID:BrQlrZBR6uRnwKrlz0cLd9ywA_n-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:8.5

VERTICAL SUPPORT OF FREE END OF CHORD IS REQUIRED.

Plate Offsets (X,Y)--	[2:0-1-6,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.24	Vert(LL)	-0.00	7	>999	240	MT20	220/195
TCDL 10.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	-0.00	7	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code IBC2021/TPI2014		Matrix-MP	Wind(LL)	0.00	7	>999	360	Weight: 9 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2X4 DF No.2 G	TOP CHORD Structural wood sheathing directly applied or 1-11-11 oc purlins.
BOT CHORD 2X4 DF No.2 G	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 4=Mechanical
 Max Horz 2=56(LC 8)
 Max Uplift 2=-138(LC 8), 4=-11(LC 9)
 Max Grav 2=260(LC 1), 4=40(LC 3)

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

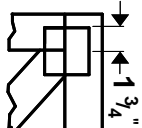
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.0psf; h=20ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 0-9-12, Interior(1) 0-9-12 to 2-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Plates checked for a plus or minus 20 degree rotation about its center.
 - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) A plate rating reduction of 20% has been applied for the green lumber members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=138.



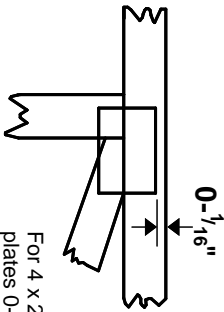
July 25, 2023

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 20/20 software** or upon request.

PLATE SIZE

4 X 4

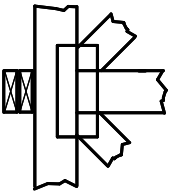
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



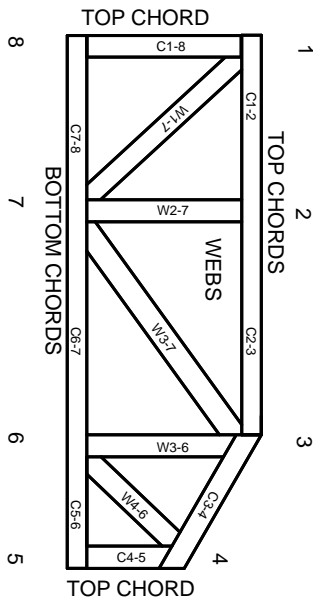
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



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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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 T or 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.



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